# October 3, 2022 GSP Official Update Package & 2023 Standard Specifications Publication

The following contains the GSPs that consist of the October 3, 2022 update package. Only the changed documents are included in this package and any unchanged sections from the last update are not included. To view all GSPs, please visit our website: https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/general-special-provisions-gsps.

The package is set up with three parts. The first part is a memo containing a listing of the revisions to the Standard Specifications that are included in the 2023 publication, available for download at: https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/manuals/standard-specifications-road-bridge-and-municipal-construction. The second part is an itemized list of the GSP file names, file types, and a brief description of the change. The third part is a memo detailing the changes in the GSPs, followed by track changes versions of the indexes and GSPs that are being updated. Please use the PDF bookmarks to navigate around this update package electronically.

If you choose to print this package, we suggest printing double sided to save paper and it is formatted to start new sub-sections on the right-hand page.

Page Intentionally Left Blank

# 2023 Standard Specifications Updates

**Please note**: The following is a brief description of the latest updates that are being published in the 2023 Standard Specifications. The updated Sections should be reviewed in depth to become completely knowledgeable of the full extent of the revisions. Any Sections not listed below are unchanged from the 2022 Standard Specifications.

The 2023 Standard Specifications Book is effective for all WSDOT projects advertised on or after Monday, October 3, 2022.

## DIVISION 1 – General Requirements

The term subcontractor is revised to lowercase when not used at the beginning of a sentence or in a title throughout Division 1.

### 1-01.2 Abbreviations
Abbreviations for Associations, Items of Work, and Units of Measurements are updated to reflect current usage.

### 1-01.3 Definitions
The term Railroad Company is added to the definitions. The term Subcontractor is removed from the definitions.

### 1-01.4 Interpretations
Added language to define the order of precedence when a definition appears in a section of the Standard Specifications and Section 1-01.3.

### 1-02 Bid Procedures and Conditions
Minor changes to grammar.

### 1-02.2 Plans and Specifications
Removed automatically providing Large Plans to the Contractor and changed to “furnished upon request”.

### 1-02.6 Preparation of Proposal
This section is updated with language that was previously omitted and being added by GSP. GSP **1-02.6.OPT2.GR1** is subsequently deleted as part of this update package.

### 1-02.8(2) Lobbying Certification
Added Lobbying Certificate LLL link to GSA forms Website.

### 1-03 Award and Execution of Contract
Revisions throughout Section 1-03 include minor changes to grammar and process.

### 1-04 Scope of the Work
Revisions throughout Section 1-04 include minor changes to grammar and process.

### 1-04.3 Reference Information
The last sentence is deleted to eliminate confusion.

### 1-04.4 Changes
Added language to inform the Contractor of the intention to unilaterally execute protested change orders.

**1-05 Control of Work**
Minor changes to grammar and process.

**1-06 Control of Material**
Minor changes to grammar and process.

**1-06.1(4) Fabrication Inspection Expense**
Removal of concrete items listed that is no longer available and being removed in Divisions 7 and 9.

**1-06.2(2)D4 Quality Level Calculation**
Removed reference to compaction.

**1-07 Legal Relations and Responsibilities to the Public**
Minor changes to grammar and process.

**1-07.5(4) Air Quality**
Reorganized section and added WSDOT requirements for fugitive dust.

**1-07.7(2) Load-Limit Restrictions**
The last paragraph has been realigned to apply to the full Section.

**1-07.8 High-Visibility Apparel & 1-07.8(1) Traffic Control Personnel**
Revised to current ANSI/ISEA version.

**1-07.9(1) General**
Third paragraph is revised.

**1-07.9(2) Posting Notices**
L&I form numbers are updated.

**1-07.9(3) Apprentices**
Updated to indicate current practices.

**1-07.9(5)B Intents and Affidavit**
Updated to indicate the PWIA system is where documents are submitted.

**1-07.9(5)D Penalties for Noncompliance**
Updated to add other documents that are subject to sanctions in accordance with RCW 39.12.050.

**1-07.11 Requirements for Nondiscrimination**
Title VI language is updated to current USDOT Order 1050.A2 language. In accordance with instructions from OEO and FHWA, Specific Assurances, Appendix A and Appendix E are to be included in the Standard Specifications. 1-07.11 is reorganized.

**1-07.11(1) General Application**
This section is split into three subsections.

# 2023 Standard Specifications Updates

**1-07.11(1)B Standard Title VID Statutory/Regulatory Authorities**
New subsection is added to define “Acts and Regulations” so Title VI information is understandable.

**1-07.11(1)C Nondiscrimination Authorities**
New subsection is added (This information is Appendix E of DOT Order 1050.A2).

**1-07.11(2) Contractual Requirements**
Item #4 is updated and corresponds to Specific Assurance #2 of DOT Order 1050.A2.

**1-07.11(2)A Equal Employment Opportunity (EEO) Responsibilities**
This language is updated to current language for Appendix A of DOT Order 1050.A2.

**1-07.11(6) Incorporation of Provisions**
Cross references are updated due to re-organization of section.

**1-07.16(1) Private/Public Property**
Subheadings added and paragraph moved.

**1-07.18(4) General Requirements for Insurance**
Formatting corrected in last paragraph as it applies to numbers 1 through 8.

**1-07.28 Railroads**
New section for working with railroads is incorporated into the Standard Specifications from the GSP to Section 1-07.28, which is subsequently deleted as part of this update package.

**1-08 Prosecution and Progress**
Minor changes to grammar and process.

**1-08.1 Subcontracting**
Subcontracting has been reorganized and rewritten. Work done by the Contractor’s own organization remains at 30%. Subcontracting is limited to 30% per subcontractor. (Aligns with CFR that states DBEs must self-perform 30%) “Withholding is defined as an action of the Prime or Sub of paying less than what was requested or invoiced.” The term withholding (when lowercase) will only refer to Contracting Agency withholding.

**1-09 Measurement and Payment**
Minor changes to grammar and process.

**1-09.2(5) Measurement**
Additional information provided for Scale Verification checks. Minor Construction Items is deleted; if a change is requested to type of measurement, a Minor Change will be processed.

**1-09.3 Scope of Payment**
Added better description of bid items containing fill-ins.

**1-09.6 Force Account**
Revisions to item #4 Services adds clarification that Services are not marked up twice. Revisions to item #6 Markup on Subcontractor's Work adds clarification, services removed, and revisions based on "subcontractor" applying to all tiers.

**1-10 Temporary Traffic Control**
Minor changes to grammar and process.

**1-10.2(1)B Traffic Control Supervisor**
Clarification of duties.

**1-10.3(1)A Flaggers**
Minor changes to requirements for location of flagging stations.

**1-10.3(1)B Other Traffic Control Labor**
A prior addition by GSP added bid item for patrolling work zones and "maintain" is moved to that item. In addition, information that was in measurement was moved to this section.

**1-10.3(2)A One-Way Traffic Control**
Information expanded to include AFADs.

**1-10.3(2)B Rolling Slowdown**
Information is updated for clarity.

**1-10.3(2)C Lane Closure Setup/Takedown**
Sequential Arrow Boards changes to "signs" and other changes updating information for clarity.

**1-10.3(2)D Mobile Operations**
Information is updated for clarity and consistency.

**1-10.3(3)A Construction Signs**
Information on variable work zones is added and other changes are for clarity are included.

**1-10.3(3)C Portable Changeable Message Signs**
GSPs in January 2022 added mini PCMS signs. Section has been reorganized.

**1-10.3(3)G Traffic Cones and Tall Channelizing Devices**
References to tall devices now include height of 42".

**1-10.3(3)I Warning Lights and Flashers**
Updates to size of devices and light requirements.

**1-10.3(3)L Temporary Pedestrian Curbs**
New subsection added for temporary pedestrian curbs.

**1-10.3(3)M Pedestrian Channelization Devices**
New subsection added for pedestrian channelization devices.

**1-10.4 Measurement & 1-10.5 Payment**
Minor changes to measurement and payment.

# 2023 Standard Specifications Updates

## DIVISION 2 – Roadway Excavation and Embankment

**N/A**

## DIVISION 3 – Acceptance of Aggregate

**3-01 Production from Quarry and Pit Sites**
Minor grammatical updates

**3-01.2(2) Preparation of Site**
Section is split into sections, 3-01.2(2)A General Requirements & 3-01.2(2)B Contracting Agency Lab Trailer

**3-01.2(2)B Contracting Agency Lab Trailer**
Section is updated to include many of the Region requirements, including power. A Region Special Provision should no longer be needed.

**3-02 Stockpiling Aggregates**
Minor grammatical updates.

**3-02.2(1) Stockpile Sites Provided by the Contracting Agency**
Clarification added for payment of preparation of stockpile sites.

**3-03 Site Reclamation**
Minor grammatical updates.

**3-03.2(1) Contracting Agency-Provided Sites**
“One to one” changed to “1:1” for standard specification consistency.

**3-04 Aggregate Acceptance**
Minor grammatical updates.

**3-04.3(3) Sampling**
WAQTC added in front of the FOP test.

**3-04.3(7)C Rejected Work**
Section is split into three new subsections:

3-04.3(7)C1 Rejection Prior to Placement
3-04.3(7)C2 Rejection after Placement
3-04.3(7)C3 Payment for Rejected Materials

## DIVISION 4 – Ballast and Crushed Surfacing

**4-04 Ballast and Crushed Surfacing**
Minor grammatical updates.

**4-04 Ballast and Crushed Surfacing**
Shoulder Finishing added including optional use of planings. This replaces Section 4-04.3(11), which is no longer used as shoulder finishing. RSPs for shoulder finishing are no longer needed.

**DIVISION 5 – Surface Treatments and Pavements**

**5-01 Cement Concrete Pavement Rehabilitation**
Minor grammatical updates.

**5-01.3(2)B Cement Concrete for Panel Replacement**
The reference to payment for cure box is removed, as it is no longer a bid item.

**5-02.3(3) Application of Emulsified Asphalt and Aggregate**
For clarification, reference to the distributor "spraying normally" (of liquid asphalt) is changed to read "spraying uniformly".

**5-03 Crack and Joint Sealing**
Minor grammatical updates.

**5-04 Hot Mix Asphalt**
Minor grammatical updates.

**5-04.3(2) Paving Under Traffic**
Clarification added to the section indicating that the Contractor has the responsibility of determining when the pavement is open to traffic.

**DIVISION 6 – Structures**

**6-02 Concrete Structures**
Revisions throughout Division 6-02 include minor grammatical updates.

**6-02.3(6) Placing Concrete**
In item number 4 of the first paragraph, revised *character* to read *characteristics*. In the twelfth paragraph, a new sentence is added describing concrete surface desired prior to the application of cure.

**6-02.3(9)A Shop Drawings**
This revision removes language requiring "reproducible originals" and will rely on Section 1-05.3.

**6-02.3(9D Control Strength**
In the last paragraph, revised *either* to read *each*.

**6-02.3(1)D3 Concrete Placement**
In first paragraph, revised *either* to read *each*.

**6-02.3(12)A Construction Joints in New Construction**
This section is modified to require submittal of an RFI when the Contractor requests to add, delete, or relocate construction joints.

**6-02.3(14)B Class 2 Surface Finish**
This revision adds a requirement for filling lifting pocket voids.

**6-02.3(14)E2 Producing Exposed Aggregate Finish**
In the fifth paragraph, *effect* is revised to read *affect*.

**6-02.3(17)A Design Loads**
The second paragraph is rewritten for clarity.

**6-02.3(17)E Stringers, Beams, Joists, Bridge Deck Support, and Deck Overhangs**
In paragraph 5, “self mass” is changed to read “weight of applied concrete loads”

**6-02.3(17)F1 Cable or Tension Bracing Systems**
In item number 3, examples are revised to read, “such as wire rope clips, plate clamps, or other attachment devices.” The term *Crosby* is revised to read *wire rope clips*.

**6-02.3(17)F3 Anchor Blocks**
In the first paragraph, the term *mass* is revised to read *weight*.

**6-02.3(17)H Formwork Accessories**
In the examples list for item number 1, examples are revised to read “pontoons, floating dolphins, detention vaults, or other concrete systems that are either placed in water or hold water.”

**6-02.3(17)J Face Lumber, Studs, Wales, and Metal Forms**
In item number 3 of the fifth paragraph, examples are revised to read, “(such as the underside of the bridge deck between girders, the interiors of box girders, or other concrete exposed surfaces not viewable to the public , and traffic and pedestrian barriers where surfaces will receive an architectural treatment)”.

**6-02.3(17)M Restricted Overhead Clearance Sign**
This section is split into two new subsections:

6-02.3(17)M1 Vehicular Traffic
6-02.3(17)M2 Railroad Traffic

**6-02.3(17)M2 Railroad Traffic**
The requirement to immediately place overhead signs is replaced with “in accordance with railroad requirements”

**6-02.3(17)N Removal of Falsework and Forms**
This revision removes the phrase, “if Engineer does not specify otherwise” from the first sentence.

**6-02.3(17)N Removal of Falsework and Forms**
The last sentence of the last paragraph is revised to read, “The forms inside of hollow piers, girders, abutments, or other enclosed concrete surfaces shall be removed through openings shown in the Plans or as allowed by the Engineer.”

**6-02.3(19) Bridge Bearings**
Added requirement for bearings to be attached with an adhesive recommended by the manufacturer.

**6-02.3(25)E Contractors Control Strength**
In the fifth paragraph, clarification is added for coring of girders.

**6-02.3(25)L Handling and Storage**
Item number 2 of the fourth paragraph is revised to allow relocation of support points without complete re-submittal of the working drawing; however, some analysis is still required.

**6-02.3(25)L1 Lifting and Handling Devices**
This Section is modified to only pertain to girders with a depth of less than 3 feet. Other minor changes are also included.

**6-02.3(25)L2 Girder Lateral Stability and Stress Analysis**
These revisions update information in the table.

**6-02.3(25)L2 Girder Lateral Stability and Stress Analysis**
Item number 3 is revised for the number list for suggested shipping and handling details (analysis assumptions.

**6-02.3(25)L5 Girder Erection**
The revision to this section modifies formatting (converting bold text to regular).

**6-02.4 Measurement**
In the fourth paragraph, the reference to payment is removed. In the fifth paragraph, the reference to the producer's invoice is removed. Measurement for expansion joint systems is revised to reference the two types that are included in the Standard Item Table (compression seal and strip seal).

**6-02.5 Payment**
Payment for Expansion joints systems is revised to reference the two types that are included in the Standard Item Table (compression seal and strip seal).

**6-05**
Revisions throughout Division 6-05 include minor grammatical updates.

**6-05.3(13) Treatment of Timber Pile Heads**
The cross reference to waterproofing fabric is changed to Section 9-11.1.

**6-07.3(2) Submittals**
Added cross reference to the section for containment platform submittal (the only submittal that requires a type 2E working drawing).

**6-07.3(2)D Hazardous Waste Containment, Collection, Testing, and Disposal Submittal Component**
Item number 8 is supplemented with a requirement for the Contractor to provided airflow calculations.

**6-07.3(2)G Lead Compliance Program Submittal Component**
This new Section to supplied in the Painting Plan Submittal Package. The Contractor shall submit a written lead compliance program. It also requires the Contractor to make available to WSDOT personnel hygiene and housekeeping facilities. With the insertion of this new section, **6-07.3(2)G Painting Plan Meeting** is moved into Section **6-07.3(2)H**.

**6-07.3(2)H Painting Plan Meeting**
This section is renumbered from **6-07.3(2)G** to **6-07.3(2)H**.

**6-07.3(3)B Quality Control and Quality Assurance for Field Application of Paint**
These revisions add information about what WSDOT staff will and will not do.

**6-07.3(11)B3 Galvanized Surface Cleaning and Preparation**
The reference to ASTM D6386 is revised to ASTM 7803.

**6-07.3(14)G Applications of Shop Coats and Field Coats**
The last sentence of the first paragraph removes the field coats.

**6-16 Soldier Pile and Soldier Pile Tieback Walls**
Revisions throughout Division 6-16 include minor grammatical updates.

**6-16.3(5) Backfilling Shaft**
The revisions to this section clarify where pumpable lean concrete is allowed and cross references lean concrete in Section 6-02.3(2)D (instead of 2-09.3(1)).

**6-20 Buried Structures**
Revisions throughout Division 6-20 include minor grammatical updates.

**6-20.1 Description**
The last sentence is deleted.

**6-20.3(1)H Concrete Structures**
These revisions refine the paragraph on requirements for bridge approach slabs.

**6-20.3(4) Preconstruction Conference**
The revisions to this section modify the requirements for when a conference is required.

**6-20.3(6)A Bedding**
The fourth paragraph is revised for clarity.

**6-20.3(7)A Precast Concrete Structures**
These revisions modify this section to require the installing contractor to observe the shop fit up of the structure.

**DIVISION 7 – Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains and Conduits**

**7-01 Drains**
Revisions throughout Division 7-01 include minor grammatical updates.

**7-01.2 Materials**
Perforated Concrete Underdrain Pipe is removed, as it is no longer available.

**7-01.3(1) Drain Pipe**
The references to concrete drain pipe are removed.

**7-02 Culvert Pipe**
Revisions throughout Division 7-02 include minor grammatical updates.

**7-02.2 Materials**
“Beveled Concrete End Sections” is revised to “Mitered Concrete End Sections” to match the new Standard Plan and FHWA guidance documents.

**7-02.3(1) Placing Culvert Pipe – General**
“Beveled Concrete End Sections” are changed to “Mitered Concrete End Sections” to match the new Standard Plan and FHWA guidance documents. Information on mitering pipes is updated to align with the standard plans.

**7-02.4 Measurement**
“Beveled Concrete End Sections” is revised to “Mitered Concrete End Sections” to match the new Standard Plan and FHWA guidance documents. Measurement statement for length of culvert pipe and pipe arch are updated. Measurements statement for flared end section is updated. Reference to Pipe connector sections for Design B is deleted as it is no longer on the Standard Plan.

**7-05 Manholes, Inlets, Catch Basins, and Drywells**
Revisions throughout Division 7-05 include minor grammatical updates.

**7-05.1 Description**
The term “Structures” is replaced with drainage structures to match both measurement and bid item name. The defined term Structures includes pipes, and we need to make it clear that connection to existing pipes is not included in the bid item “Connection to Drainage Structure”.

**7-05.5 Payment**
Added sentence to Connection to Existing Drainage Structure, “Payment for connections to existing pipes shall be included in the unit Contract prices for drain, culvert and storm sewer pipes.” This will make it clear that connections to existing pipe are not eligible for payment under the item Connection to Existing Drainage Structure.

**<u>DIVISION 8 – Miscellaneous Construction</u>**

**8-01 Erosion Control and Water Pollution Control**
Revisions throughout Division 8-01 include minor grammatical updates.

**8-02.5 Payment**
The bid item “Tire Wash” is added back into the spec book. This was inadvertently deleted in the 2018 book update.

**8-03 Irrigation Systems**
This section is rewritten and reorganized. Definitions are added, the chapter is arranged in chronological order, sections are added and rewritten for clarity, a system irrigation orientation meeting is added, and the payment schedule is modified. Revisions to this section also include minor grammatical updates.

**8-08 Rumble Strips**
Minor grammatical updates.

**8-08.3 Construction Requirements**
This section is revised to remove specific mention of “shoulder” rumble strips to not preclude the use of centerline rumble strips.

**8-08.5 Payment**
References to payment for fog sealing rumble strips now pertains to both shoulder and centerline rumble strips.

**8-11 Guardrail**
Revisions throughout Division 8-11 include minor grammatical updates.

**8-11.3(1)A Erection of Posts**
The RFI process is added for Contractors requesting the omission of a guardrail post. Some information is included on what might be approved, however an RFI is required.

**8-11.3(1)A Erection of Posts**
The last sentence of this section is revised to clarify that posts are to be protected at the end of each shift instead of at all times.

**8-11.3(1)C Terminal Anchor Installation**
Payment information in the first and sixth paragraph is removed as it is already included in Section 8-11.5.

**8-11.3(1)G Plans**
This section is deleted, and the title is revised to **Vacant**. Most guardrail details are in the Standard Plans. Should a plan be needed for a specialty configuration, a special provision can be written detailing the requirements for a plan.

**8-11.3(1)H Guardrail Construction Exposed to Traffic**
the Section is modified for clarity. Revisions are added that rail elements should be attached during the same working shift to be consistent with the section on Posts.

**8-13 Monument Cases**
Revisions throughout Division 8-13 include minor grammatical updates. All parts of Section 8-13 are modified to include adjustment of monument cases. This section is also reorganized to distinguish between the bid items Monument Case and Cover and Adjustment Monument Case and Cover.

**8-13.2 Materials**
“Concrete” is changed to “Commercial Concrete”, and Crushed Surfacing Base Course is added.

**8-14 Cement Concrete Sidewalks**
Revisions throughout Division 8-14 include minor grammatical updates.

**8-14.2 Materials**
This revision adds a reference to a new Materials Section for detectable warning surfaces.

**8-14.3(5)A General**
These revisions remove material requirements and transfer them into Section 9-19.

**8-14.3(5)C Surface Applied Detectable Warning Surfaces**
Clarification on requirements for surface applied detectable warning surfaces is added.

**8-18 Mailbox Support**
Added cross reference to standard plans for mailbox supports.

**8-20 Illumination, Traffic Signal Systems, Intelligent Transportation Systems, and Electrical**
Revisions throughout Division 8-20 include minor grammatical updates.

**8-20.1 Description**
These revisions clarify in the description that in addition to completion of a new system, work could include modifications to an existing system, partial removal of a system or complete removal of a system.

**8-20.3(5)B Conduit Type**
Changed “rigid metal” to rigid metal RMC. This will ensure rigid metal IMC is not provided which has a thinner wall. Changed “flexible metal” to “liquid-tight flexible metal (LFMC)” to provide complete information on this product.

**8-20.3(5)B1 Rigid Metal Conduit**
Revised to use RMC acronym and removes all the repeat definitions of RMC.

**8-20.3(8) Wiring**
Reorganized into one primary section and three new subsections for clarity. Paragraph 1 adds the last sentence which was relocated from new Section 8-20.3(8)C (Wire and Cable Pulling), Paragraphs 2 & 4 are rewritten for clarity. Paragraph 3 is added and relocated from new 8-20.3(8)C (Wire and Cable Pulling), Information on Splices is deleted and moved to new section 8-20.3(8)A (Splices), the last paragraph is relocated from new 8-20.3(8)B (Identification).

**8-20.3(8)A Splices**
Consolidates all information previously included in Section 8-20.3(8) relating to splicing.

**8-20.3(8)B Identification**
Consolidates all information previously included in Section 8-20.3(8) related to wire labeling and identification. Item number 2 is modified to clarify when multiple displays served, and item number 7 is modified to included specific labeling requirements for interconnect comm cable types.

**8-20.3(8)C Wire and Cable Pulling**
Consolidates all information previously included in Section 8-20.3(8) related to wire and cable pulling, The second paragraph is broken into three separate paragraphs for clarity.

**8-20.3(9) Bonding, Grounding**
This section is reorganized, and information is split into the main section and subsections **8-20.3(9)A Supplemental Grounding** and **8-20.3(9)B Service Grounding**.

**8-20.3(11) Testing**
The first paragraph is added to provide clarification on loop testing at start of section, rather than buried within it. In the second to last paragraph, deleted the reference to exclusion of direct burial. Direct burial circuits should meet all normal insulation requirements, and special cases should be addressed through contract provisions. Revisions also include updated requirements for irrigation and other low voltage DC circuits.

**8-20.3(12) Painting**
This revision adds the option of wrapping material in lieu of powder coating.

**8-20.3(13)A Light Standards**
This revision replaces information on labeling with reference to new standard plan.

**8-20.3(14)C Induction Loop Vehicle Detectors**
In item number 3, clarification is added regarding how to handle new loops that are to be installed in same location as an existing loop.

**8-20.3(14)D Test for Induction Loops and Lead-In Cable**
This section is reorganized for clarity. Added clarification for when each test is performed. The last paragraph is added to address loop replacement projects where the Contractor was not directed to address existing lead-in cables, but testing failed.

**8-20.3(14)E Signal Standards**
Item number 4 is revised for clarification and to better address the now wider array of equipment with field drilled wiring access.

**8-21 Permanent Signing**
Revisions throughout Division 8-21 include minor grammatical updates.

**8-21.3(5) Sign Relocation**
This revision removes the of sign lighting since WSDOT has discontinued this practice.

**8-21.3(9)A1 Fabrication of Monotube Sign Bridges and Cantilever Sign Structures**
This revision updates the color number for finish coat.

**8-22 Pavement Marking**
Revisions throughout Division 8-22 include minor grammatical updates.

**8-22.3(4) Tolerances for Lines and Grooves**
This revision is a correction under Grooves.

**8-22.4 Measurement**
This revision removes “Wide Dotted Entry Line” from list of wide lines, as this line is not 8” wide but 12” wide. Also adds measurement for plastic and pained 12” wide to include the wide dotted entry line. The reference to width of lines is removed from the removal of line item, and replaced with “regardless of width”.

**8-22.5 Payment**
This revision adds a payment item for 12” lines.

**DIVISION 9 – Materials**

**9-03.11(3) Streambed Boulders**
To provide for a more inclusive document, historical language that is tied to gender is being replaced. In this section, One Man is changed to Type One, (typical).

**9-03.14(3) Common Borrow**
These revisions add clarification on the method WSDOT will use to test the volume of deleterious materials.

**9-03.21(1)A Reclaimed Asphalt Shingles**
These revisions add clarification on the method WSDOT will use to test the content of asbestos containing materials.

**9-03.21(1)B Recycled Asphalt Pavement**
The cross refence for maximum allowable percentage of hot mix asphalt is revised.

**9-04 Joint Sealing Materials**
Revisions throughout Division 9-04 include minor grammatical updates.

**9-04.12 External Sealing Bands**
The revision to external sealing bands is the result of a new product evaluation.

**9-05 Drainage Structures and Culverts**
Revisions throughout Division 9-05 include minor grammatical updates.

**9-05.1(1) Concrete Drain Pipe**
This section’s content is deleted and its title is now **Vacant**. Concrete drain pipe is not produced in our area.

**9-05.2(2) Perforated Concrete Underdrain Pipe**
This section’s content is deleted and its title is now **Vacant**. Perforated concrete underdrain pipe is not produced in our area.

**9-05.3(3) Beveled Concrete End Sections**
Title and text are changed to **Mitered Concrete End Sections** in order to align with the Standard Plans and FHWA guidance documents.

**9-05.4(2) Mitered Ends**
The term *beveled* is changed to *mitered* in order to align with the Standard Plans and FHWA guidance documents.

**9-05.4(3) Protective Treatments**
This section's content is deleted and its title is now **Vacant**. Asphalt Coatings are no longer available in our area.

**9-05.4(4) Asphalt Coatings and Paved Inverts**
This section's content is deleted and its title is now **Vacant**. Asphalt Coatings are no longer available in our area.

**9-05.4(6) Spun Asphalt Lining**
This section's content is deleted and its title is now **Vacant**. Asphalt Coatings are no longer available in our area.

**9-05.5 Aluminum Culvert Pipe**
The reference to AASHTO M196M is revised to AASHTOM196.

**9-05.51 Adjustment Sections**
This new Section for Adjustments of Manholes to Grade is added, which covers precast concrete, metal castings, concrete block, concrete brick, and expanded polypropylene foam.

**9-13 Riprap, Quarry Spalls, Slope Protection, Rock for Erosion and Scour Protection and Rock Walls**
Revisions throughout Division 9-13 include minor grammatical updates.

**9-13.7(1) Rock for Rock Walls and Chinking Material**
To provide for a more inclusive document, historical language that is tied to gender is being replaced. In this section, "One Man" to Type 1 (typical)

**9-14 Erosion Control and Roadside Planting**
Revisions throughout Division 9-14 include minor grammatical updates.

**9-14.1 Materials Submittals and Acceptance**
These revisions update the Compost Section in the table.

**9-14.6(2) Biodegradable Erosion Control Blanket**
This revision modifies the text, "Effectively perform the intended erosion control function" read "kept in place".

**9-16 Fence and Guardrail**
Revisions throughout Division 9-16 include minor grammatical updates.

**9-16.3(5) Anchors**
The seventh paragraph is added to include materials information for strut and yoke assemblies, bearing plates, and breakaway post sleeve components. These are part of new standard plan C-23.70 for Type 11 Anchor.

**9-19 Detectable Warning Surface**
This new section is added for materials for detectable warning surfaces.

**9-29 Illumination, Signal, Electrical**
Revisions throughout Division 9-29 include minor grammatical updates. Additionally, added the industry recognized acronym (RMC and LFMC) for easier reference to NEC (Code).

**9-29.2(3) Structure Mounted Junction Box**
The third paragraph is revised with the correct specification for junction boxes and cover screws.

**9-29.2(5) Testing Requirements**
The first paragraph is revised to clarify how testing is managed, including for QPL items.

**9-29.13(10)A Auxiliary Equipment for NEMA Controllers**
These revisions cover minor typographic corrections.

**9-29.16 Vehicular Signal Heads, Displays, and Housing**
The second paragraph is revised. Polycarbonate is no longer readily available, and WSDOT stopped using any plastic type backplates due to weight and durability issues.

**9-29.16(1)E1 Conventional Photo Controls**
This section is revised to define the foot-candle acronym and revised to use the more common “fc” acronym.

**9-29.24 Service Cabinets**
Item number 3 is rewritten for clarity.

**9-35 Temporary Traffic Control Materials**
Revisions throughout Division 9-35 include minor grammatical updates.

**9-35.1 General Requirements**
These revisions add Pedestrian Channelization Devices, Temporary Pedestrian Devices, and 42-Inch Tall Channelization Devices to this section.

**9-35.2 Construction Signs**
This section is updated with new reflective sheeting information.

**9-35.4 Sequential Arrow Signs**
This section is revised.

**9-35.5 Portable Changeable Message Signs**
The full section is updated and now includes mini-PCMSs.

**9-35.6 Barricades**
This revision updates information on reflective bands.

**9-35.7 Traffic Safety Drums**
This section is updated and adds dates for changes to implemented for MASH compliance. Additionally, drum reflective bands are updated.

**9-35.9 Traffic Cones**
These revisions add 36” high cones and update reflective band information.

**9-35.10 Tubular Markers**
Added 42” high tubular markers and updated reflective band information. Added requirements for ballasting to prevent overturning.

**9-35.12 Transportable Attenuator**
Information on reflective sheeting is updated.

**9-35.13 Tall Channelizing Devices**
The title of this section is revised to **42-Inch Tall Channelizing Devices**, and also updated with new sheeting requirements.

**9-35.16 Temporary Pedestrian Curb Ramps**
This is a new section to address materials requirements for temporary pedestrian ramp curbs.

**9-35.17 Pedestrian Channelizing Devices**
This is a new section to address materials requirements for pedestrian channelizing devices.

Page Intentionally Left Blank

**General Special Provision (GSP) revisions that occurred for the annual update package (October 3, 2022)**
**Posted: October 3, 2022**
**Update Corresponding Indexes**

| File | Date of Change | File Type | Revision/Deletion/Rename/New |
|---|---|---|---|
| INTRO.GR1 | 10/3/2022 | GSP Option | Revised |
| 1-02.6.OPT2.GR1 | 10/3/2022 | GSP Option | Deleted |
| 1-02.12.OPT2.FR1 | 10/3/2022 | GSP Option | New |
| 1-03.3.OPT1.GR1 | 10/3/2022 | GSP Option | Revised |
| 1-05.3.OPT1.GR1 | 10/3/2022 | GSP Option | Deleted |
| 1-05.3.OPT2.GR1 | 10/3/2022 | GSP Option | New |
| 1-05.3.OPT3.GR1 | 10/3/2022 | GSP Option | New |
| 1-05.4.OPT1.GR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.1.OPT1.GR1 | 10/3/2022 | GSP Option | New |
| 1-07.1.OPT2.FR1 | 10/3/2022 | GSP Option | Renamed to 1-07.1(2).OPT3.FR1 (no date change) |
| 1-07.1.OPT2.GR1 | 10/3/2022 | GSP Option | New |
| 1-07.1.OPT4.FR1 | 10/3/2022 | GSP Option | New |
| 1-07.1.OPT5.FR1 | 10/3/2022 | GSP Option | New |
| 1-07.1.OPT6.FR1 | 10/3/2022 | GSP Option | New |
| 1-07.1(2).OPT2.GR1 | 10/3/2022 | GSP Option | New |
| 1-07.5(1).INST1.GR1 | 10/3/2022 | GSP Instruction | New |
| 1-07.5(1).OPT1.FR1 | 10/3/2022 | GSP Option | New |
| 1-07.5(4).INST1.GR1 | 10/3/2022 | GSP Instruction | Revised/Renamed to 1-07.5(4)**C**.INST1.GR1 |
| 1-07.5(4).OPT1.FR1 | 10/3/2022 | GSP Option | Renamed to 1-07.5(4)**C**.OPT1.FR1 (no date change) |
| 1-07.5(4).OPT2.FR1 | 10/3/2022 | GSP Option | Renamed to 1-07.5(4)**C**.OPT2.FR1 (no date change) |
| 1-07.9(2).INST1.GR1 | 10/3/2022 | GSP Instruction | Deleted |
| 1-07.9(2).OPT1.2023.GR1 | 10/3/2022 | GSP Option | Deleted |
| 1-07.9(3).OPT1.GR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.11.OPT1.GR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.11.OPT2.GR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.11.OPT3.FR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.11.OPT4.FR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.11.OPT6.FR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.11.OPT7.FR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.11.OPT8.FR1 | 10/3/2022 | GSP Option | Revised |

| File | Date of Change | File Type | Revision/Deletion/Rename/New |
|---|---|---|---|
| 1-07.12.OPT2.FR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.16(1)C.INST1.GR1 | 10/3/2022 | GSP Instruction | New |
| 1-07.16(1)C.OPT1.GR1 | 10/3/2022 | GSP Option | New |
| 1-07.16(1)C.OPT2.GR1 | 10/3/2022 | GSP Option | New |
| 1-07.17.OPT2.FR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.18.INST1.GR1 | 10/3/2022 | GSP Instruction | Deleted |
| 1-07.18.OPT1.FR1 | 10/3/2022 | GSP Option | Deleted |
| 1-07.18(5).OPT5.GR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.18(5).OPT6.FR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.18(5).OPT7.GR1 | 10/3/2022 | GSP Option | Deleted |
| 1-07.18(5).OPT8.GR1 | 10/3/2022 | GSP Option | Deleted |
| 1-07.23(1).OPT5.FR1 | 10/3/2022 | GSP Option | Revised |
| 1-07.23(1).OPT7.FR1 | 10/3/2022 | GSP Option | New |
| 1-07.23(1).OPT8.FR1 | 10/3/2022 | GSP Option | New |
| 1-07.23(1).OPT9.GR1 | 10/3/2022 | GSP Option | New |
| 1-07.23(1).OPT10.GR1 | 10/3/2022 | GSP Option | New |
| 1-07.24.OPT2.GR1 | 10/3/2022 | GSP Option | New |
| 1-07.28.INST1.GR1 | 10/3/2022 | GSP Instruction | New |
| 1-07.28.OPT1.FR1 | 10/3/2022 | GSP Option | New |
| 1-07.28.OPT2.FR1 | 10/3/2022 | GSP Option | New |
| 1-07.28.OPT3.FR1 | 10/3/2022 | GSP Option | New |
| 1-07.28(1).INST1.GR1 | 10/3/2022 | GSP Instruction | New |
| 1-07.28(1).OPT1.FR1 | 10/3/2022 | GSP Option | New |
| 1-07.28(2).INST1.GR1 | 10/3/2022 | GSP Instruction | New |
| 1-07.28(2).OPT1.FR1 | 10/3/2022 | GSP Option | New |
| 1-07.28(6).INST1.GR1 | 10/3/2022 | GSP Instruction | New |
| 1-07.28(6).OPT1.FR1 | 10/3/2022 | GSP Option | New |
| 1-07.28(8).INST1.GR1 | 10/3/2022 | GSP Instruction | New |
| 1-07.28(8).OPT1.GR1 | 10/3/2022 | GSP Option | New |
| 1-08.1.OPT1.GR1 | 10/3/2022 | GSP Option | Revised |
| 1-08.1.OPT2.FR1 | 10/3/2022 | GSP Option | Deleted |
| 1-08.3(1).INST2.GR1 | 10/3/2022 | GSP Instruction | New |
| 1-08.3(1).OPT2.FR1 | 10/3/2022 | GSP Option | New |

| File | Date of Change | File Type | Revision/Deletion/Rename/New |
|---|---|---|---|
| 1-10.2(1).OPT1.GR1 | 10/3/2022 | GSP Option | Revised |
| 1-10.2(9-35).GR1 | 10/3/2022 | GSP Heading/Inst. | New |
| 1-10.2(9-35).OPT1.GR1 | 10/3/2022 | GSP Option | New |
| 1-10.3(3).OPT3.FR1 | 10/3/2022 | GSP Option | Revised |
| 1-10.3(3).OPT4.FR1 | 10/3/2022 | GSP Option | Revised |
| 1-10.3(3).OPT5.GR1 | 10/3/2022 | GSP Option | New |
| 1-10.3(3)B(9-35.4).GR1 | 10/3/2022 | GSP Heading/Inst. | New |
| 1-10.3(3)B(9-35.4).OPT1.2024.GR1 | 10/3/2022 | GSP Option | New |
| 1-10.3(3)C.INST1.GR1 | 10/3/2022 | GSP Instruction | Deleted |
| 1-10.3(3)C.OPT1.2023.GR1 | 10/3/2022 | GSP Option | Deleted |
| 1-10.3(3)C(9-35.5).GR1 | 10/3/2022 | GSP Heading/Inst. | Deleted |
| 1-10.3(3)C(9-35.5).OPT1.2023.GR1 | 10/3/2022 | GSP Option | Deleted |
| 1-10.4(2).OPT8.GR1 | 10/3/2022 | GSP Option | New |
| 1-10.5(2).OPT6.GR1 | 10/3/2022 | GSP Option | New |
| 5-04.3(10)C1.INST1.GR5 | 10/3/2022 | GSP Instruction | Deleted |
| 5-04.3(10)C1.OPT1.2023.GR5 | 10/3/2022 | GSP Option | Deleted |
| 6-02.3(17)C.OPT1.FB6 | 10/3/2022 | GSP Option | Revised |
| 6-05.3.OPT1.FB6 | 10/3/2022 | GSP Option | Revised |
| 6-07.3(10).OPT3.GB6 | 10/3/2022 | GSP Option | Deleted |
| 6-19.2(9-36.4).GR6 | 10/3/2022 | GSP Heading/Inst. | New |
| 6-19.2(9-36.4).OPT1.GR6 | 10/3/2022 | GSP Option | New |
| 7-01.SA1.GR7 | 10/3/2022 | GSP Standalone | New |
| 7-06.INST1.GR7 | 10/3/2022 | GSP Instruction | Deleted |
| 7-06.SA1.FR7 | 10/3/2022 | GSP Option | Deleted |
| 7-06.SA2.FR7 | 10/3/2022 | GSP Option | Deleted |
| 8-02.2(9-14.1).GR8 | 10/3/2022 | GSP Instruction | Deleted |
| 8-02.2(9-14.1).OPT1.2023.GR8 | 10/3/2022 | GSP Option | Deleted |
| 8-01.3(1)B.INST1.GR8 | 10/3/2022 | GSP Instruction | New |
| 8-01.3(1)B.OPT1.GR8 | 10/3/2022 | GSP Option | New |
| 8-03.3(6)A2.INST1.GR8 | 10/3/2022 | GSP Instruction | New |
| 8-03.3(6)A2.OPT1.FR8 | 10/3/2022 | GSP Option | New |
| 8-10.2.OPT1.GR8 | 10/3/2022 | GSP Option | Revised |
| 8-11.2.OPT2.GR8 | 10/3/2022 | GSP Option | Revised/Renamed to 8-11.2.OPT2.**F**R8 |

| File | Date of Change | File Type | Revision/Deletion/Rename/New |
|---|---|---|---|
| 8-11.3.OPT1.GR8 | 10/3/2022 | GSP Option | Revised/Renamed to 8-11.3.OPT1.**F**R8 |
| 8-11.3.OPT2.FR8 | 10/3/2022 | GSP Option | Revised |
| 8-11.3.OPT5.FR8 | 10/3/2022 | GSP Option | New |
| 8-11.4.OPT1.GR8 | 10/3/2022 | GSP Option | Revised |
| 8-11.5.OPT6.GR8 | 10/3/2022 | GSP Option | Revised |
| 8-13.3.INST1.GR8 | 10/3/2022 | GSP Instruction | Renamed to 8-13.3**(1)**.INST1.GR8 |
| 8-13.3.OPT1.GR8 | 10/3/2022 | GSP Option | Renamed to 8-13.3**(1)**.OPT1.GR8 (no date change) |
| 8-13.3(2)B.INST1.GR8 | 10/3/2022 | GSP Instruction | New |
| 8-13.3(2)B.OPT1.GR8 | 10/3/2022 | GSP Option | New |
| 8-14.1.INST1.GR8 | 10/3/2022 | GSP Instruction | Deleted |
| 8-14.1.OPT1.GR8 | 10/3/2022 | GSP Option | Deleted |
| 8-14.2(9-19.1).GR8 | 10/3/2022 | GSP Heading | New |
| 8-14.2(9-19.1(1).GR8 | 10/3/2022 | GSP Heading/Inst. | New |
| 8-14.2(9-19.1(1).OPT1.FR8 | 10/3/2022 | GSP Option | New |
| 8-14.2(9-19.2).GR8 | 10/3/2022 | GSP Heading | New |
| 8-14.2(9-19.2(1).GR8 | 10/3/2022 | GSP Heading/Inst. | New |
| 8-14.2(9-19.2(1).OPT1.FR8 | 10/3/2022 | GSP Option | New |
| 8-14.3(5).INST1.GR8 | 10/3/2022 | GSP Instruction | Deleted |
| 8-14.3(5).OPT1.GR8 | 10/3/2022 | GSP Option | Deleted |
| 8-20.2(9-29.2(3)).GR8 | 10/3/2022 | GSP Heading/Inst. | Deleted |
| 8-20.2(9-29.2(3)).OPT1.2023.GR8 | 10/3/2022 | GSP Option | Deleted |
| 8-21.2(9-28.12).GR8 | 10/3/2022 | GSP Heading/Inst. | New |
| 8-21.2(9-28.12).OPT1.2024.GR8 | 10/3/2022 | GSP Option | New |
| 8-22.4.INST1.GR8 | 10/3/2022 | GSP Instruction | Deleted |
| 8-22.4.OPT1.2023.GR8 | 10/3/2022 | GSP Option | Deleted |
| 8-22.4.INST2.GR8 | 10/3/2022 | GSP Instruction | Deleted |
| 8-22.4.OPT2.2023.GR8 | 10/3/2022 | GSP Option | Deleted |
| 8-22.4.INST3.GR8 | 10/3/2022 | GSP Instruction | Deleted |
| 8-22.4.OPT3.2023.GR8 | 10/3/2022 | GSP Option | Deleted |
| 8-22.5.INST1.GR8 | 10/3/2022 | GSP Instruction | Deleted |
| 8-22.5.OPT1.2023.GR8 | 10/3/2022 | GSP Option | Deleted |
| 8-23.2(9-34).GR8 | 10/3/2022 | GSP Heading/Inst. | New |
| 8-23.2(9-34).OPT1.GR8 | 10/3/2022 | GSP Option | New |

| File | Date of Change | File Type | Revision/Deletion/Rename/New |
|---|---|---|---|
| 8-23.3(4)A.INST1.GR8 | 10/3/2022 | GSP Instruction | New |
| 8-23.3(4)A.OPT1.GR8 | 10/3/2022 | GSP Option | New |
| 8-23.4.INST1.GR8 | 10/3/2022 | GSP Instruction | New |
| 8-23.4.OPT1.GR8 | 10/3/2022 | GSP Option | New |
| 8-23.5.INST1.GR8 | 10/3/2022 | GSP Instruction | New |
| 8-23.5.OPT1.GR8 | 10/3/2022 | GSP Option | New |
| 8-31.3(1)A.INST1.GR8 | 10/3/2022 | GSP Instruction | New |
| 8-31.3(1)A.OPT1.FR8 | 10/3/2022 | GSP Option | New |
| 8-31.3(1)A.OPT2.FR8 | 10/3/2022 | GSP Option | New |
| 8-31.3(3)B.INST1.GR8 | 10/3/2022 | GSP Instruction | New |
| 8-31.3(3)B.OPT1.FR8 | 10/3/2022 | GSP Option | New |
| 8-SA2.GR8 | 10/3/2022 | GSP Standalone | Revised |
| 8-SA4.FR8 | 10/3/2022 | GSP Standalone | New |
| 8-SA4(9-03.11).GR8 | 10/3/2022 | GSP Option | New |
| 8-SA5.GR8 | 10/3/2022 | GSP Standalone | New |

Page Intentionally Left Blank

# Revisions to General Special Provisions
# Effective October 3, 2022

Please note: New revisions to WSDOT General Special Provisions are described below. Previous GSPs that are not revised in this package are still in effect. Special Provisions take precedence over the Standard Specifications in accordance with Section 1-04.2.

The following list is a brief description of the latest revisions, with an explanation of why each change was made. The actual provisions should be reviewed in depth to become completely knowledgeable of the full extent of the revisions. These provisions are available at the following location:

https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/general-special-provisions-gsps

## INTRODUCTION

**INTRO.GR1**
The revision to this GSP updates the Standard Specifications reference from 2022 to 2023.

## DIVISION 1 – General Requirements

**Deleted: 1-02.6.OPT2.GR1**
The content of this GSP has been incorporated into the Standard Specifications and is therefore now obsolete.

**1-02.12.OPT2.FR1**
This former Eastern Region RSP will be used for providing an alternative bid opening location.

**1-03.3.OPT1.GR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**Deleted: 1-05.3.OPT1.GR1**
The contents of this GSP have been moved into the GSPs in Section 1-07.28, and therefore deleted from this section.

**1-05.3.OPT2.GR1**
This is a former Ferries RSP and is required for all WSF projects and defines right/left designation.

**1-05.3.OPT3.GR1**
This former WSF RSP is required for all WSF projects and requires the Contractor to submit a Work Plan.

**1-05.4.OPT1.GR1**
This GSP is revised to incorporate surveying of buried structures.

**1-07.1.OPT1.GR1**
This former WSF RSP will be used for all WSF projects or projects located near ferry terminals, to indicate that the Contractor is responsible to pay standard ferry tolls.

# Revisions to General Special Provisions
# Effective October 3, 2022

**1-07.1.OPT2.FR1 – renamed to 1-07.1(2).OPT3.FR1**
This GSP has been renamed to correct location under Health and Safety. There is no date change as there were no revisions to the content of this GSP.

**1-07.1.OPT2.GR1**
This former Ferries RSP is required for all WSF projects and covers access and security at ferry terminals.

**1-07.1.OPT4.FR1**
This new GSP will be used in projects that have been issued a local agency noise variance or exemption and there is a requirement for notification of property owners by mail. Use of this GSP will require Region Construction approval.

**1-07.1.OPT5.FR1**
This new GSP will be used in projects when a local agency noise variance has not been obtained but restrictions are placed on the contract to mitigate nighttime construction noise. Use of this GSP will require Region Construction approval.

**1-07.1.OPT6.FR1**
This new GSP will be used in projects that have been issued a local agency noise variance or exemption. This can be used for rural, not heavily populated areas, and where notification of property owners is not required by mail.

**1-07.1(2).OPT2.GR1**
This former WSF RSP covers Diving and Workboat Safety Requirements.

**1-07.5(1).OPT1.FR1**
This former WSF RSP is being added to limit mooring and operating equipment in sensitive areas of Marine Shorelines. May be used in either roadway projects if applicable.

**1-07.5(4).OPT1.FR1 – renamed to 1-07.5(4)C.OPT1.FR1**
**1-07.5(4).OPT2.FR1 – renamed to 1-07.5(4)C.OPT2.FR1**
Section 1-07.5(4) was reorganized and these GSPs have been renamed to accommodate the new structure. There is no date change as there were no revisions to the content of either GSP.

**Deleted: 1-07.9(2).OPT1.2023.GR1**
The content of this GSP has been incorporated into the Standard Specifications and is therefore now obsolete.

**1-07.9(3).OPT1.GR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**1-07.11.OPT1.GR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**1-07.11.OPT2.GR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**1-07.11.OPT3.FR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**1-07.11.OPT4.FR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**1-07.11.OPT6.FR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**1-07.11.OPT7.FR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**1-07.11.OPT8.FR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**1-07.12.OPT2.FR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**1-07.16(1)C.OPT1.GR1**
This is former Northwest Region RSP requires Type 2 Working Drawing for access the work site from adjacent private properties.

**1-07.16(1)C.OPT2.GR1**
This is a former WSF RSP that prohibits access from adjacent private properties unless otherwise approved.

**1-07.17.OPT2.FR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**1-07.18(5).OPT5.GR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**1-07.18(5).OPT6.FR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

# Revisions to General Special Provisions
# Effective October 3, 2022

**Deleted: 1-07.18.OPT1.FR1**
The content of this GSP has been incorporated into the Standard Specifications and is therefore now obsolete. Many of the requirements are in the new Section 1-07.28. Provisions that are not standard that supplement the new section for the Standard Specifications are shown in the Section 1-07.28 GSPs listed in this memorandum.

**Deleted: 1-07.18(5).OPT7.GR1 & 1-07.18(5).OPT8.GR1**
The content of these GSPs have been incorporated into Standard Specifications Section 1-07.28 and are therefore now obsolete.

**1-07.23(1)**
Regions should discontinue the use of RSPs for traffic control.

**1-07.23(1).OPT5.FR1**
The revisions to this GSP address lane and closure hours. Holidays have been updated to incorporate the many additions that regions have added to RSPs in Section 1-07.23(1), as well as new fill-ins for special events and traffic delays. Additional language regarding general restrictions, controlled access, and advance notifications has also been added.

**1-07.23(1).OPT7.FR1**
This is a new GSP for public notification.

**1-07.23(1).OPT8.FR1**
This is a new GSP, which was formerly a WSF RSP for Maintenance and Protection of Ferry Traffic (single slip).

**1-07.23(1).OPT9.GR1**
This is a new GSP, which was formerly a WSF RSP for Maintenance and Protection of Ferry Traffic (multi slip).

**1-07.23(1).OPT10.GR1**
This is a new GSP, intended for use on projects where the holiday travel volumes will not make it feasible to work on the day between the weekend and the 4th of July holiday.

**1-07.24.OPT2.GR1**
This is a new GSP, which was formerly a WSF RSP. This new GSP notifies the Contractor that a Sundry Site Plan is included in the Contract for their use.

**1-07.28.OPT1.FR1**
This new GSP is intended for use when work is within 25’ of the centerline of tracks.

**1-07.28.OPT2.FR1**
This new GSP will be used in projects where an agreement has been obtained with a railroad and indicates the appendix number.

**1-07.28.OPT3.FR1**
This new GSP will be used when the Railroad Company is to provide work with the railroad company forces.

# Revisions to General Special Provisions
# Effective October 3, 2022

**1-07.28(1).OPT1.FR1**
This new GSP will be used when the Contracting Agency has made a right of entry agreement with the Railroad.

**1-07.28(2).OPT1.FR1**
This new GSP will be used in projects that require submittal review by a Railroad. Projects with work occurring below the bridge deck, work adjacent to the tracks, or work requiring containment systems, falsework, or formwork typically require Railroad review.

**1-07.28(6).OPT1.FR1**
This new GSP will be used when the Contracting Agency has made an agreement with the railroad for railroad flagging or other protective services.

**1-07.28(8).OPT1.FR1**
This new GSP replaces the Standard Specification on payment, and is added when the Contract has railroad flagging or other protectives services.

**1-08.1.OPT1.GR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**Deleted: 1-08.1.OPT2.FR1**
This GSP is deleted as part of this update. It is rarely used, and special items are no longer referenced in the reorganized Section 1-08.1.

**1-08.3(1).OPT2.FR1**
This GSP is added to highlight milestones and/or activities that need to be shown on the progress schedule for successful schedule management. These items may not be work items but permits, procurement, or other activities known to have risk or drive the length of the schedule. Suggested items include, Railroad Right of Entry Agreements, materials requiring long procurement or fabrication periods such as signal or light poles, structural elements, or mechanical items.

**1-10.2(1).OPT1.GR1**
The revision to this GSP updates a website address.

**1-10.3(3).OPT3.FR1**
A new vendor is added to the list of acceptable Smart Work Zone Vendors.

**1-10.3(3).OPT4.FR1.**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**1-10.3(3)B(9-35.4).OPT1.2024.GR1**
This new GSP requires communication features to be included in Sequential Arrow Signs.

**1-10.2(9-35).OPT1.GR1, 1-10.3(3).OPT5.GR1, 1-1-10.4(2).OPT8.GR1 and 1-10.5(2).OPT6.GR1.**
These are new GSPs for temporary portable transverse rumble strips. Designers are encouraged to use when a project has flagging operations (including with the use AFADs) and speeds are 45mph or higher.

**Deleted: 1-10.3(3)C(9-35.5).OPT1.2023.GR1**
The content of this GSP has been incorporated into the Standard Specifications and is therefore now obsolete.

**Deleted: 1-10.3(3)C.OPT1.2023.GR1**
The content of this GSP has been incorporated into the Standard Specifications and is therefore now obsolete.

## DIVISION 2 – Roadway Excavation and Embankment

**N/A**

## DIVISION 3 – Acceptance of Aggregate

**N/A**

## DIVISION 4 – Ballast and Crushed Surfacing

**N/A**

## DIVISION 5 - Surface Treatments And Pavements

**Deleted: 5-04.3(10)C1.OPT1.2023.GR5**
The content of this GSP has been incorporated into the Standard Specifications and is therefore now obsolete.

## DIVISION 6 – Structures

**6-02.3(17)C.OPT1.FB6**
This GSP is updated to reference new Section 1-07.28.

**6-05.3.OPT1.FB6**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**Deleted: 6-07.3(10).OPT3.GB6**
The content of this GSP has been incorporated into the new Standard Specifications Section 1-07.28 and is therefore now obsolete.

**6-19.2(9-36.4).OPT1.GB6**
This new GSP is being added to allow the use of Sonitec V2 CSL Tubes.

# Revisions to General Special Provisions
# Effective October 3, 2022

## DIVISION 7 – Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains and Conduits

**7-01.SA1.GR7**
This new GSP is being added to provide consistency in our specs and payments methods for construction of media filter drains. Media filter drains will now be paid for by the square yard and a bid item will be added to the Standard Item Table. The pay limits will extend from the edge of shoulder to the catch points except that Clearing and Grubbing and Seeding, Fertilizing, and Mulching will be paid for as separate bid items. The Highway Runoff Manual (M 31-16) will be updated to reflect the changes.

**Deleted: 7-06.SA1.FR7 and 7-06.SA2.FR7**
These GSPs are deleted. The new Section 8-31 is added to the Standard Specifications and covers the most of these provisions. GSPs supplementing 8-31 are listed in this memo for stream flows and Contracting Agency supplied materials.

## DIVISION 8 - Miscellaneous Construction

**8-01.3(1)B.OPT1.GR8**
This new GSP will be used in all projects without a CSWGP that require an ESC Lead.

**Deleted: 8-02.2(9-14.1).OPT1.2023.GR1**
The content of this GSP has been incorporated into the Standard Specifications and is therefore now obsolete.

**8-03.3(6)A2.OPT1.FR8**
Section 8-03 now prohibits mechanical trenching in the critical root zone. This new GSP will be used when the Landscape Architect indicates that mechanical trenching will be allowed.

**8-10.2.OPT1.GR8**
This GSP is updated with changes to reflective sheeting requirements.

**8-11.2.OPT2.GR8 – renamed to 8-11.2.OPT2.FR8**
This GSP is revised to include a fill in for maximum barrier deflection.

**8-11.3.OPT1.GR8 – renamed to 8-11.3.OPT1.FR8**
This GSP is revised to incorporate standard plans for both embedded and bolt through attachments. Additionally, the content is reorganized and information on providing steel post assemblies is included with fill-in to add in delivery of spare parts, which are now required.

**8-11.3.OPT2.FR8**
This GSP is revised with changes to reflective sheeting for the retroreflective markers.

**8-11.3.OPT5.FR8**
This new GSP is added for incorporating steel posts with new box culverts for both embedded and bolt through attachments. The GSP requires spare steel post assemblies be included and delivered to the Contracting Agency.

**8-11.4.OPT1.GR8**
This GSP revises reference posts to be Type 31.

**8-11.5.OPT6.GR8**
This GSP is updated with minor revisions to the description of the existing bid item “Box Culvert Steel Post Type 31 and adds a new bid item for “Additional Box Culvert Guardrail Steel Post Assemblies”.

**8-13.3.OPT1.GR8 – renamed to 8-13.3(1).OPT1.GR8**
Section 8-13 was reorganized for the addition of adjusting monuments. This GSP is renamed to accommodate the new structure.

**8-13.3(2)B.OPT1.GR8**
This GSP is being added, to be used when required, to indicate that final grade on the adjusted monuments is to be set ¼” below grade for accommodation of snowplows.

**Deleted: 8-14.1.OPT1.GR8**
This GSP had been used to include ADA Detectable Warning Surfaces (DWS) and other less commonly used surfaces in the description. DWS is now included in the description of Section 8-14. When alternative surfaces are required for a Contract, the project office will be required to write a project-specific special provision.

**8-14.2(9-19.1(1).GR8, 8-14.2(9-19.1(1).OPT1.FR8, 8-14.2(9-19.2(1).GR8, and 8-14.2(9-19.2(1).OPT1.FR8**
These new GSPs supplement the sidewalk specifications to allow for alternate colors of detectable warning surfaces.

**8-14.3.OPT1.GR1**
The revision to this GSP changes the case for the term subcontractor. “Subcontractor” is no longer a defined term and therefore no longer capitalized.

**Deleted: 8-20.2(9-29.2(3).GR8**
The content of this GSP has been incorporated into the Standard Specifications and is therefore now obsolete.

**8-21.2(9-28.12).GR8 & 8-21.2(9-28.12).OPT1.2024.GR8**
Reflective Sheeting Materials requirements have been updated in Section 9-28.12. This GSP should be used for all projects until its incorporation into the Standard Specifications.

**Deleted: 8-22.4.OPT1.2023.GR8, 8-22.4.OPT2.2023.GR8, 8-22.4.OPT3.2023.GR8, and 8-22.5.OPT1.2023.GR8**
The content of these GSPs have been incorporated into the Standard Specifications and is therefore now obsolete.

**8-23.2(9-34).OPT1.GR8, 8-23.3(4)A.OPT1.GR8, 8-23.4.OPT1.GR8, and 8-23.5.OPT1.GR8**
These new GSPs are for Temporary Adhesive Transverse Rumble Strips. These rumble strips will be used as a temporary application to slow down vehicles in a construction zone.

**8-31.3(1)A.OPT1.FR8**
This GSP will indicate the minimum stream flows for a temporary stream diversion system.

**8-31.3(1)A.OPT2.FR8**
This GSP will indicate the minimum stream flows for the contingency stream diversion system.

**8-31.3(3)B.OPT1.FR8**
This GSP is being added to indicate the supplies that will be provided by the Contracting Agency to install fish block nets.

**8-SA2.GR8**
This GSP is updated to cross reference the Section 9.28.12 sheeting specifications. Other minor clarifications have been added.

**8-SA4.FR8**
This new GSP for Water Crossings is being implemented for work within streams. A fill-in template document has been provided and will be used as a template for the fill-in information containing the blends of aggregates to be used on a particular project. Designers will use their completed design and assistance from HQ Hydraulics to edit the fill-in.

**8-SA4(9-03.11).GR8**
This new GSP is intended for use with 8-SA4.FR8, and deletes Section 9-03.11.

**8-SA5.GR8**
This new GSP for woody materials is being implemented for our work within streams that install woody material.

**<u>DIVISION 9 – Materials</u>**

**N/A**

Page Intentionally Left Blank

**INTRO.GR1** **Special Provisions**
**(~~September 7, 2021~~October 3, 2022)**
**All Projects**

**DIVISION1.GR1** **General Requirements**

**DESWORK.GR1** **Description of Work**

DESWORK1.FR1 (Description of Work)
(March 13, 1995)
Use in all projects except those involving only painting of metal bridges.
(1 fill-in)

DESWORK2.FB1 (Description of Work - Bridge Painting)
(August 3, 2015)
Use in projects involving only the painting of metal bridges.
(3 fill-ins)

**1-02.GR1** **Bid Procedures and Conditions**

**1-02.1.GR1** **Prequalification of Bidders**

1-02.1.INST1.GR1 (Section 1-02.1, including title, is deleted and replaced with the following)
Must use one preceding any of the following:

1-02.1.OPT1.GR1 (Vacant)
(April 2, 2018)
Use in projects where all of the work will occur outside the highway right of way.
Requires approval of HQ Contract Ad and Award Manager.

**1-02.4.GR1** **Examination of Plans, Specifications and Site of Work**

**1-02.4(1).GR1** **General**

1-02.4(1).INST1.GR1 (Section 1-02.4(1) is supplemented with the following)
Must use once preceding any of the following:

1-02.4(1).OPT1.FR1 (September 3, 2019)
Use in projects for which the Contracting Agency is providing Reference Information for the Contractor's use.
(2 fill-ins)
The first fill-in identifies the web address where the Reference Information is located: https://ftp.wsdot.wa.gov/contracts/. The second fill-in lists the items available for the prospective bidder's review. Structural Reference Information should include bridge inspection reports for all bridges within the project limits and as-built plans for all bridges which are being modified as part of the Project scope including but not limited to widening, repair, retrofit (rail, seismic, etc.), painting, overlay and paving. Structural Reference

Information should be listed by bridge number. For projects including culverts or bridges associated with water crossings, include the Final Hydraulic Design Report.

**1-02.6.GR1 Preparation of Proposal**

1-02.6.INST2.GR1 (The fourth paragraph of Section 1-02.6 is revised to read)
Must use one preceding any of the following:

1-02.6.OPT1.GR1 (Small and Veteran-Owned Business Enterprises (SVBE) and Minority and Women's Business Enterprises (MWBE) Documentation)
(March 14, 2022)
Use in projects that **require** the use of Small Business Enterprise (SBE) or Veteran-Owned Business (VOB) enforceable COA goals and MWBE voluntary goals.
Must use with **1-02.9.OPT2.GR1 and 1-07.11.OPT6.FR1.**

~~1-02.6.OPT2.GR1 (Disadvantaged Business Enterprise (DBE) Documentation)~~
~~(November 9, 2020)~~
~~Use in projects that **require** the use of the Disadvantaged Business Enterprise (DBE) Condition of Award (COA) Participation Goal Requirement.~~
~~Must use with **1-02.9.OPT1.GR1 and 1-07.11.OPT3.FR1.**~~

1-02.6.OPT3.GR1 (Subcontractor list not required with bid)
(The fifth and sixth paragraphs of Section 1-02.6 are deleted)
(August 2, 2004)
Use in all projects with estimated cost of $1,000,000 or less.

1-02.6.INST3.GR1 (Section 1-02.6 is supplemented with the following)
Must use once preceding any of the following:

1-02.6.OPT4.FR1 (Alternative Bids)
(September 7, 2021)
Use in projects when the proposal is to contain alternate items for bidding. Fill-ins consist of a brief description of the portion of the project or of the work that would be subject to alternative bidding. Repeat the "Alternative" paragraphs if the project consists of more than two alternatives.
(4 or more fill-ins)

1-02.6.OPT5.FR1 (Cumulative Alternate Bidding)
(August 3, 2015)
Use in contracts when the award process is modified to include cumulative Alternates. The region shall determine and notify the Ad and Award office of the Funds Available. The bid items shall be segregated into a Base Bid and Alternates as appropriate. Fill-ins consist of a brief description of the portion of the project or of the work that is included in the noted Alternates. The specification language may be adjusted to suit the number of Alternates.

Use of this GSP requires the approval of the HQ Ad and Award Manager and HQ Assistant State Design Engineer. When requesting approval, provide documentation of funds available, and that Approvals consistent with Design Manual Chapter 300 exist for the Base project and each potential combination of Base plus Alternates.
(1 or more fill-ins)

1-02.6.INST4.GR1 (Item number 3 in the second paragraph of Section 1-02.6 is supplemented with the following)
Must use once preceding any of the following:

1-02.6.OPT8.FR1 (Maximum Funds Available)
(September 3, 2019)
Use in Connecting Washington projects. Contact your Region Program Management Office and CPDM to determine whether to use this GSP and establish a maximum funds available amount.
The list of Connecting Washington projects is available at http://www.wsdot.wa.gov/publications/fulltext/ProjectDev/ConnectingWashington.pdf.
Use of this GSP requires approval from the HQ Construction Office.
(1 fill-in)
Fill-in #1 is the maximum funds available for this Contract.

**1-02.9.GR1 Delivery of Proposal**

1-02.9.INST1.GR1 (Section 1-02.9 is supplemented with the following)
Must use once preceding any of the following:

1-02.9.OPT1.GR1 (September 7, 2021)
Use in projects that **require** the use of the Disadvantaged Business Enterprise (DBE) Condition of Award (COA) Participation Goal Requirement.
Must use with ~~**1-02.6.OPT2.GR1 and**~~ **1-07.11.OPT3.FR1**.

1-02.9.OPT2.GR1 (March 14, 2022)
Use in projects that **require** the use of Small Business Enterprise (SBE) or Veteran-Owned Business (VOB) enforceable COA goals and MWBE voluntary goals.
Must use with **1-02.6.OPT1.GR1 and 1-07.11.OPT6.FR1**.

**1-02.12.GR1 Public Opening of Proposal**

1-02.12.INST1.GR1 (Section 1-02.12 is supplemented with the following)
Must use once preceding any of the following:

1-02.12.OPT1.FR1 (Date of Opening Bids)
(August 3, 2015)
Do not use in projects scheduled for Region bid openings.
Use in all projects scheduled for bid openings in Olympia.
Do not use with **1-02.12.OPT2.FR1**.
(1 fill-in)

Bid opening is held on Wednesday, except in the event of holidays. Should a holiday be observed on the Monday prior to bid opening, bid opening will be held on Thursday of that same week. Contact the HQ Contract Ad & Award Office if additional guidance is necessary.

1-02.12.OPT2.FR1 (Date of Opening Bids for Region Bid Openings)
(October 3, 2022)
Do not use in projects scheduled for bid opening in Olympia.
Use in all projects scheduled for Region bid openings.
Do not use with **1-02.12.OPT1.FR1**.
(3 fill-ins)
Fill-in #1 is the name of the facility where the bid opening will be held.
Fill-in #2 is the address of the facility where the bid opening will be held.
Fill-in #3 is the bid opening date.

1-02.INST1.GR1 (Section 1-02 is supplemented with the following)
Must use once preceding any of the following:

1-02.OPT1.GR1 (Protest Procedures)
(September 7, 2021)
Include in all contracts with Federal Transit Administration (FTA) funding. Typically only applies to Ferry System and Sound Transit projects.

**1-03.GR1 Award and Execution Of Contract**

**1-03.2.GR1 Award of Contract**

1-03.2.INST1.GR1 (The first sentence of Section 1-03.2 is revised to read)
Must use once preceding any of the following:

1-03.2.OPT1.GR1 (Rapid Award of Contract)
(April 7, 2008)
Use only in projects when the Regional Administrator has declared an emergency, and the nature of the emergency requires a rapid award and execution of the contract. Requires approval of HQ Contract Ad and Award Manager.

**1-03.3.GR1 Execution of Contract**

1-03.3.INST1.GR1 (Section 1-03.3 is supplemented with the following)
Must use once preceding any of the following:

1-03.3.OPT1.GR1 (Execution of Contract)
(~~September 7, 2021~~October 3, 2022)
Use in projects selected by the Region when it is desired to have Escrow Bid Documentation established for the project. The project must be of significant size and duration to extend over multiple construction seasons.

Requires Region to set up banking facility for document storage prior to advertisements.

1-03.3.INST2.GR1 (The first paragraph of Section 1-03.3 is supplemented with the following)
Must use once preceding any of the following:

1-03.3.OPT3.GR1 (Connecting Washington)
Use in the Connecting Washington projects listed at http://www.wsdot.wa.gov/publications/fulltext/ProjectDev/ConnectingWashington.pdf.

**1-04.GR1 Scope of the Work**

**1-04.2.GR1 Coordination of Contract Documents, Plans, Special Provisions, Specifications, and Addenda**

1-04.2.INST1.GR1 (Section 1-04.2 is supplemented with the following)
Must use once preceding any of the following:

1-04.2.OPT1.GR1 (Unifier)
(June 6, 2022)
Consult with Region Construction to determine if the project will utilize the Unifier system.

**1-04.5.GR1 Procedure and Protest by the Contractor**

1-04.5.INST1.GR1 (Section 1-04.5 is supplemented with the following)
Must use once preceding any of the following:

1-04.5.OPT1.GR1 (Partnering)
(January 13, 2021)
Use in all projects with an Engineer's estimate of $5 million or greater, and/or Contracts exceeding 200 working days. At the discretion of the Region, may be used in projects with lesser cost and duration where the project complexity, scope of work, or project conditions support the need to host a Project Specific Partnering workshop. Deletion of this item requires Region Construction Engineer approval.

**1-05.GR1 Control of Work**

**1-05.3.GR1 Working Drawings**

1-05.3.INST1.GR1 (Section 1-05.3 is supplemented with the following)
Must use once preceding any of the following:

~~1-05.3.OPT1.FR1 (September 3, 2019)~~
~~Use in projects that require submittal review by a Railroad. Projects with work occurring below the bridge deck, work adjacent to the tracks, or work requiring containment systems, falsework, or formwork typically require Railroad review. The design office may need additional special provisions detailing the submittals requiring Railroad review. Deck planing, deck repair, and overlays would typically not require Railroad review as the work is confined between the bridge rails and the deck surface.~~

~~(2 fill-ins)~~
~~Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the dates for the fill-ins.~~

1-05.3.OPT2.GR1 (Right/Left Designation)
(October 3, 2022)
Use in all WSF projects.

1-05.3.OPT3.GR1 (Work Plan)
(October 3, 2022)
Use in all WSF projects.

**1-05.4.GR1 Conformity With and Deviations from Plans and Stakes**

1-05.4.INST1.GR1 (Section 1-05.4 is supplemented with the following)
Must use once preceding any of the following:

1-05.4.OPT1.GR1 (Contractor Surveying - Structure)
(~~January 13, 2021~~October 3, 2022)
Use in projects requiring the Contractor to do all surveying needed for bridges and walls. May be edited to retain portions of surveying for WSDOT crews but editing to assign additional work to the Contractor requires HQ Construction Office approval. Do not use for bridge deck paving existing surfacing profile work (already covered by Section 6-08.3(2)). Do not use for concrete overlay existing surfacing profile work (already covered by Section 6-09.3(10)A).

1-05.4.OPT2.GR1 (Contractor Surveying - Roadway)
(January 13, 2021)
Use in projects requiring the Contractor to do all surveying needed for roadway items. May be edited to retain portions of surveying for WSDOT crews but editing to assign additional work to the Contractor requires HQ Construction Office approval. Must also use **2-03.4.OPT2.GR2** if roadway excavation or embankment is included in the project.

1-05.4.OPT3.GR1 (Licensed Surveyors)
(April 4, 2011)
Include in projects requiring the Contractor to supply professional land surveyors to establish right-of-way lines and other monuments. Use of this GSP for Local Agency projects requires the approval of the HQ Local Programs Office.

1-05.4.OPT4.GR1 (Contractor Surveying – ADA Features)
(April 2, 2018)
Use in all projects that require any ADA work.
Must use with ~~**8-14.1.OPT1.GR8**,~~ **8-14.3.OPT2.GR8**~~,~~ and **8-14.3.OPT3.GR8**.

**1-05.9.GR1 Equipment**

1-05.9.INST1.GR1 (Section 1-05.9 is supplemented with the following)

Must use once preceding any of the following:

1-05.9.OPT1.FR1 (April 7, 2008)
Use in eligible projects that require extensive grading if adequate design files have already been created during the design process. Eligible projects are those that require large areas of linear grading or mass quantities of roadway excavation, and are in locations where satellite signals are not obstructed by natural or manmade feature (such as highly mountainous areas or urban canyons). Requires approval of Region Construction Manager.

Must also use **1-05.4.OPT2.GR1** (Contractor Surveying – Roadway).
(2 fill-ins) The first fill-in describes the type of data to be provided (cross sections Sta. A to B, digital terrain model, etc.) and the file format of the electronic data. The second fill-in is the name and address of the Project Engineer administering the contract.

1-05.9.OPT2.FR1 (Class A Noxious Weeds)
(April 2, 2018)
RCW 17.10.145 requires state agencies to control Class A noxious weeds. Apply this GSP if the project's SEPA checklist and/or the Region Landscape Architect determine a Class A noxious weed is present in the upland.
Fill-in #1 will contain the name of the Class A noxious weed.
Fill-in #2 will contain the specific instructions how to clean the equipment prior to leaving the project site.
(2 fill-ins)

1-05.9.OPT3.FR1 (Aquatic Invasive Species)
(April 2, 2018)
The Hydraulic Project Approval requires that permit holders prevent the spread of aquatic invasive species. Apply this GSP if the project's Environmental Review Summary/Environmental Classification Survey determines that an aquatic invasive species is present.
Fill-in #1 will contain the name of the Aquatic Invasive Species.
Fill-in #2 will contain the specific instructions how to clean the equipment prior to leaving the project site.
(2 fill-ins)

**1-05.14.GR1 Cooperation With Other Contractors**

1-05.14.INST1.GR1 (Section 1-05.14 is supplemented with the following)
Must use once preceding any of the following:

1-05.14.OPT1.FR1 (March 13, 1995)
Use when it is anticipated that other projects are, or will be, under construction during the life of this project within the limits of this project or when access to, or through adjacent projects may be necessary.
(1 fill-in)

1-05.14.OPT2.FR1 (Provide Access)
(March 13, 1995)
Use on structure contracts which are separate contracts when other contractors are required to haul past the structure being constructed.
(1 fill-in)

**1-06.GR1 Control of Material**

1-06.INST1.GR1 (Section 1-06 is supplemented with the following)
Must use once preceding any of the following:

1-06.OPT1.GR1 Buy America
Must use once preceding any of the following:

1-06.OPT1(A).GR1 (Buy America)
(August 6, 2012)
May be used in any Contract at each Regions discretion.
Must use if any of the following apply to this Contract:

- has federal aid for construction
- has or is from a Project or one of several Contracts from a Project that has a NEPA decision and federal aid was used or anticipated to be used in any of the design, right of way, utilities, or construction phases of this Contract or in any other Contracts

Do not use if using 1**-06.OPT1(C).FR1**

1-06.OPT1(B).FR1 (Buy America)
(August 6, 2012)
Use if using steel or iron in both permanent and temporary installations **AND** any of the following apply to this Contract:

- has federal aid for construction
- has or is from a Project or one of several Contracts from a Project that has a NEPA decision and federal aid was used or anticipated to be used in any of the design, right of way, utilities, or construction phases of this Contract or in any other Contracts

Must also use **1-06.OPT1(A).GR1**
(1 fill-in)

1-06.OPT1(C).FR1 (Buy America)
(September 7, 2021)
May be used in any Contract at each Regions discretion.
Must use in all projects that require the use of structural steel when the use of foreign structural steel would result in a cost benefit approaching 25 percent of the cost of the total project **AND** any of the following apply to this Contract:

- has federal aid for construction

- has or is from a Project or one of several Contracts from a Project that has a NEPA decision and federal aid was used or anticipated to be used in any of the design, right of way, utilities, or construction phases of this Contract or in any other Contracts

If the structural steel items constitute at least 60 percent of the estimated total project cost, alternate bids for domestic and foreign structural steel will be required. Format for alternate bid item is Item Name - Domestic Steel and Item Name - Foreign Steel.
(6 fill-ins) ($$1$$ and $$6$$ will be the same and $$2$$ and $$5$$ will be the same)

**1-06.1.GR1 Approval of Materials Prior to Use**

1-06.1.INST1.GR1 (Section 1-06.1 is supplemented with the following)
Must use once preceding any of the following:

1-06.1.OPT1.GR1 (April 3, 2017)
May be used on any project with Construction Project Engineer, Region Construction Engineering Manager, or Assistant Regional Administrator approval. Should be considered on projects that contain large or numerous electrical or ITS components.

**1-07.GR1 Legal Relations and Responsibilities to the Public**

**1-07.1.GR1 Laws to be Observed**

1-07.1.INST1.GR1 (Section 1-07.1 is supplemented with the following)
Must use once preceding any of the following:

1-07.1.OPT1.GR1 Ferry Tolls and Service
(October 3, 2022)
Use in all WSF projects. At the discretion of the Region, may also be used in highway projects that have a close proximity to WSF Terminals.

~~1-07.1.OPT2.FR1 Lead Health Protection Program~~
~~(September 3, 2019)~~
~~Use in projects when lead based paint on existing structures and non-structural items will be disturbed.~~
~~(1 fill-in)~~

1-07.1.OPT2.GR1 Ferry Terminal Access and Security
(October 3, 2022)
Use in all WSF projects. Provides access requirements and restrictions at WSF terminals such as Contractor employee ID lists and cards, parking, material delivery, and equipment identification.

1-07.1.OPT3.FR1 Confined Space
(April 3, 2006)

Must use when Contractor workers are required to enter a confined space and all other projects where confined spaces are known to exist. Use requires approval of the Region Safety Manager.

A confined space is a space that is ALL of the following:

- Large enough and arranged so an employee could fully enter the space and work.
- Has limited or restricted entry or exit. Examples of spaces with limited or restricted entry are tanks, vessels, silos, storage bins, hoppers, vaults, excavations, and pits.
- Not primarily designed for human occupancy.

Examples of confined spaces include but are not limited to concrete or steel box girder structures, pontoons on floating bridges, existing stormwater/sewer conveyances and vaults, electrical or signal hubs.

Fill-in #1: Include each known confined space that the Contractor may enter to perform the work. Describe identified hazards and experience with each known confined space, if any. Must contact Region Safety office for fill-in information.

1-07.1.OPT4.FR1 Noise Exemption/Variance Conditions
(October 3, 2022)
Use in projects that have been issued a local agency noise variance or exemption and there is a requirement for notification of property owners by mail. Requires Region Construction Approval.
(6 fill-ins)
Fill-in #1 is the name of the local jurisdiction(s) issuing the exemption/variance
Fill-in #2 is the number of nights allowed
Fill-in #3 is the date the exemption/variance expires
Fill-in #4 is the distance from the project limits the nighttime notices are to be mailed
Fill-in #5 is any additional requirements added to the exemption/variance
Fill-in #6 is the number of days the notices need to be mailed before work starts

1-07.1.OPT5.FR1 Nighttime Construction Work Requirements
(October 3, 2022)
Use in projects when a local agency noise variance has not been obtained but restrictions are placed on the contract to mitigate nighttime construction noise. Requires Region Construction Approval.
(3 fill-ins)
Fill-in #1 is the distance from the project limits the nighttime notices are to be mailed to
Fill-in #2 is any additional requirements added to the project
Fill-in #3 is the number of days the notices need to be mailed before work starts

1-07.1.OPT6.FR1 Noise Exemption/Variance Conditions
(October 3, 2022)
Use in projects that have been issued a local agency noise variance or exemption. This can be used for rural (not heavily populated) areas and where notification of property owners is not required by mail.
(5 fill-ins)
Fill-in #1 and #2 is the name of the local jurisdiction(s) issuing the exemption/variance
Fill-in #3 is the number of nights allowed
Fill-in #4 is the date the exemption/variance expires
Fill-in #5 is other requirements

**1-07.1(2).GR1 Health and Safety**

1-07.1(2).INST1.GR1 (Section 1-07.1(2) is supplemented with the following)
Must use once preceding any of the following:

1-07.1(2).OPT1.GR1 (COVID-19 Vaccine)
(September 27, 2021)
Use in all projects.

1-07.1(2).OPT2.GR1 (Diving and Workboat Safety Requirements)
(October 3, 2022)
Use in all WSF projects. Provides communication and safety protocols for all diving and work boat activities. Also provides requirements and restriction for working around ferry slips.

1-07.1(2).OPT3.FR1 (Lead Health Protection Program)
(September 3, 2019)
Use in projects when lead based paint on existing structures and non-structural items will be disturbed.
(1 fill-in).

**1-07.3.GR1 Fire Prevention and Merchantable Timber Requirements**

1-07.3.INST1.GR1 (Section 1-07.3 is supplemented with the following)
Must use once preceding any of the following:

1-07.3.OPT1.GR1 (August 2, 2004)
Use in projects that require work in or adjacent to National Forest Reservations.

Must also use Forest Service Provisions Appendix located at:
http://wsdot.wa.gov/publications/fulltext/ProjectDev/GSPsPDF/1-07.3.Appendix.pdf. Do not include this Appendix in the run-list. On the Final Check sheet (Form 221-019EF) under Contract Make-Up check the box Forest Service Provisions.

**1-07.3(2).GR1 Merchantable Timber Requirements**

1-07.3(2).INST1.GR1 (Section 1-07.3(2) is supplemented

with the following)
Must use once preceding any of the following:

1-07.3(2).OPT1.GR1 (Timber Export Restrictions)
(April 7, 2008)
Use in projects that have one log truck load (approximately 5,000 board feet) or more of merchantable timber that is to be cut.

**1-07.4.GR1 Sanitation**

**1-07.4(2).GR1 Health Hazards**

1-07.4(2).INST1.GR1 (Section 1-07.4(2) is revised to read)
Must use once preceding any of the following:

1-07.4(2).OPT1.FR1 (August 7, 2017)
Use in all projects known to be inhabited by transients, and all projects known to contain biological or physical hazards such as drug paraphernalia, human excrement, etc.
(1 fill-in)

**1-07.5.GR1 Environmental Regulations**

1-07.5.INST1.GR1 (Section 1-07.5 is supplemented with the following)
Must use once preceding any of the following:

1-07.5.OPT1.GR1 Environmental Commitments
(September 20, 2010)
An Environmental Commitment Meeting is expected as outlined in Division 4 of the Plans Preparation Manual

Must use with **1-07.5.OPT2.GR1.** Must use once preceding any of the following Environmental Commitment GSPs:

1-07.5.OPT1(A).FR1 (August 4, 2014)
Use if the project includes a requirement for Cultural Resource Monitoring.
(1 fill-in)
The fill-in can either be a station reference(s), plan sheet(s), or a certain depth below an elevation control point, etc.

1-07.5.OPT1(B).FR1 (April 1, 2019)
Use if work is authorized in environmentally sensitive areas. Use the Environmental Commitment Meeting to determine applicability of this provision for the project.
(1 fill-in - choose the largest number of days noted in your permits/environmental documentation or 15 days, whichever is greater.)

1-07.5.OPT1(C).FR1 (April 1, 2019)
Use in projects applying either Programmatic Biological Assessment (or Individual BA), Hydraulic Project

Approval, or local shoreline conditions where setbacks of certain work are required from sensitive areas like waters of the state, wetlands, or unique upland features.
(3 Fill-ins)
Fill-in #1 defines the contractor activity that is not allowed (e.g. staging, storing material, maintaining equipment, etc.)
Fill-in #2 defines the minimum distance between the contractor activity and the sensitive area.
Fill-in #3 defines the sensitive area(s).

1-07.5.OPT2.GR1 Payment
(August 3, 2009)
Must use with **1-07.5.OPT1.GR1**.

**1-07.5(1).GR1 General**

1-07.5(1).INST1.GR1 (Section 1-07.5(1) is supplemented with the following)
Must use once preceding any of the following:

1-07.5(1).OPT1.FR1 In-Water Operations Along Marine Shorelines
(October 3, 2022)
Use in all WSF Projects, and any projects where floating equipment or vessels will be operating or mooring near marine shorelines.
(2 fill-ins)
Fill-in #1 is State or Federal Agency issuing permit or approval.
Fill in #2 is allowable work dates.

**1-07.5(2).GR1 State Department of Fish And Wildlife**

1-07.5(2).INST1.GR1 (Section 1-07.5(2) is supplemented with the following)
Must use once preceding any of the following:

1-07.5(2).OPT1.GR1 Hydraulic Project Approval
(April 2, 2018)
An Environmental Commitment Meeting (see Division 4 of the Plans Preparation Manual) is mandatory for all projects to determine the applicability of these requirements.

Must use with **1-07.5(2).OPT2.GR1**. Must use once preceding any of the following Hydraulic Project Approval GSPs:

1-07.5(2).OPT1(A).FR1 (April 2, 2018)
Use in projects with an HPA and a “fish window.”
Fill-in #1 is the start date of the fish window.
Fill-in #2 is the end date.
Consider setting the work completion date one day less than permitted end date. This ensures WSDOT has time to remove the nets, which is technically in-water work.
(2 fill-ins)

1-07.5(2).OPT2.GR1 Payment
(April 2, 2018)
Must use with **1-07.5(2).OPT1.GR1**.

**1-07.5(3).GR1 State Department of Ecology**

1-07.5(3).INST1.GR1 (Section 1-07.5(3) is supplemented with the following)
Must use once preceding any of the following:

1-07.5(3).OPT1.GR1 Water Quality and Resource Protection
(April 2, 2018)
An Environmental Commitment Meeting (see Division 4 of the Plans Preparation Manual) is mandatory for all projects to determine the applicability of these requirements.

Must use with **1-07.5(3).OPT2.GR1**. Must use once preceding any of the following Hydraulic Project Approval GSPs:

1-07.5(3).OPT1(A).FR1 (August 3, 2009)
Use in projects having permitted work within waters of the United States and a mixing zone is allowed by the Washington State Department of Ecology.
(1 fill-in)
Fill in No. $$1$$ choose a distance in feet based on either 173-201A of the Washington Administrative Code or the project specific 401 Water Quality Certification from the Washington State Department of Ecology.

1-07.5(3).OPT1(B).GR1 (April 1, 2019)
Use with Contracting Agency owned NPDES Construction Stormwater General Permits (CSWGP). This GSP shall not be used on projects where CSWGP administration will be transferred to the Contractor prior to the start of construction. Additional planning, monitoring, sampling, and reporting requirements, beyond the scope of this GSP, may be required if the project is issued a CSWGP that covers discharges to impaired surface waters, such as those listed on the 303(d) list or in a Total Maximum Daily Load (TMDL) coverage area. Use the Environmental Commitment Meeting to determine applicability of this provision for the project.

1-07.5(3).OPT2.GR1 Payment
(April 2, 2018)
Must use with **1-07.5(3).OPT1.GR1**.

**1-07.5(4).GR1 Air Quality**

## 1-07.5(4)C.GR1 Asbestos Containing Materials

1-07.5(4)C.INST1.GR1 (Section 1-07.5(4)C is supplemented with the following)
Must use once preceding any of the following:

1-07.5(4)C.OPT1.FR1 (October 3, 2022)
**Must use either OPT1 or OPT2 in all WSDOT projects.**
Use in projects where the asbestos Good Faith Investigation (GFI) has determined that known and/or presumed, Asbestos Containing Material (ACM) will be disturbed by the work on the project. Must include the asbestos GFI as an appendix.

Must also use **2-02.1.OPT2.GR2**, **2-02.3.OPT4.GR2**, and **2-02.5.OPT11.GR2**.

(1 fill-in)
Fill-in is the appendix location for the GFI.

1-07.5(4)C.OPT2.FR1 (October 3, 2022)
**Must use either OPT1 or OPT2 in all WSDOT projects.**
Use in projects where an asbestos Good Faith Investigation (GFI) has determined that that no known, and/ or assumed, and/or reasonably likely Asbestos Containing Material (ACM) will be disturbed by the work on the project. Must include the asbestos GFI as an appendix.

Must also use **2-02.3.OPT5.GR2**.

(1 fill-in)
Fill-in is the Appendix location for the GFI.

## 1-07.5(5).GR1 U.S. Army Corps of Engineers

1-07.5(5).INST1.GR1 (Section 1-07.5(5) is supplemented with the following)
Must use once preceding any of the following:

1-07.5(5).OPT1.GR1 U.S. Army Corps Nationwide Permit
(April 2, 2018)
An Environmental Commitment Meeting (see Division 4 of the Plans Preparation Manual) is mandatory for all projects to determine the applicability of these requirements.

Must use with **1-07.5(5).OPT2.GR1**. Must use once preceding any of the following Hydraulic Project Approval GSPs:

1-07.5(5).OPT1(B).FR1 (February 25, 2013)
Must use when the project requires a U.S. Army Corps of Engineers Nationwide Permit No. 33. The permit provides for temporary fills for up to six

months (180 days). The designer must evaluate the length of time needed for temporary fills. Any duration in excess of six months must have received a waiver by the U.S. Army Corps of Engineers. Use the Environmental Commitment Meeting to determine applicability of this provision for the project.
(2-fill-ins)
Fill-in No. $$1$$ defines the location of temporary fill(s).
Fill-in No. $$2$$ is number of calendar days of the temporary fill(s) are permitted to be placed.

1-07.5(5).OPT1(C).GR1 (February 25, 2013)
Must use when the project requires a U.S. Army Corps of Engineers Nationwide Permit No. 3, 13, 14, or 33.

1-07.5(5).OPT1(D).GR1 (August 3, 2009)
Use if permits authorize heavy equipment operation in wetlands or mudflats.

1-07.5(5).OPT1(F).GR1 (August 3, 2009)
Use if the project involves disposing of creosoted materials.

1-07.5(5).OPT2.GR1 Payment
(April 2, 2018)
Must use with **1-07.5(5).OPT1.GR1**.

**1-07.5(6).GR1 U.S. Fish and Wildlife Service and National Marine Fisheries Service**

1-07.5(6).INST1.GR1 (Section 1-07.5(6) is supplemented with the following)
Must use once preceding any of the following:

1-07.5(6).OPT1.GR1 (April 2, 2018)
An Environmental Commitment Meeting (see Division 4 of the Plans Preparation Manual) is mandatory for all projects to determine the applicability of these requirements.

Must use with **1-07.5(6).OPT2.GR1**. Must use once preceding any of the following GSPs:

1-07.5(6).OPT1(B).GR1 (April 2, 2018)
Use in projects applying Programmatic Biological Assessment Minimization Measure #8, where work will be performed between October 1 and June 1. If this GSP is used, please ensure that the Plans indicate where the 100 year floodplain is.
Do not use for Emergency Projects.

1-07.5(6).OPT1(C).FR1 (April 2, 2018)

| | |
|---|---|
| | Use in projects applying Programmatic Biological Assessment Minimization Measure #15.<br>Fill-in #1 is the maximum number of days. Work with the Region Environmental Coordinator.<br>(1 fill-in) |
| 1-07.5(6).OPT1(D).GR1 | (April 2, 2018)<br>Use in projects applying Programmatic Biological Assessment Minimization Measure #27. |
| 1-07.5(6).OPT1(E).GR1 | (April 2, 2018)<br>Use in projects applying Programmatic Biological Assessment Minimization Measure #69. |
| 1-07.5(6).OPT1(F).GR1 | (April 2, 2018)<br>Use in projects applying Programmatic Biological Assessment Minimization Measure #71. |
| 1-07.5(6).OPT1(G).GR1 | (April 2, 2018)<br>Use in projects applying Programmatic Biological Assessment Minimization Measure #73.<br><br>This GSP should pertain only to non-bridge projects (i.e., culverts) because treated wood containment for bridges is covered by Section 2-02.3(2)A1 of the Standard Specifications. |
| 1-07.5(6).OPT1(H).FR1 | (April 2, 2018)<br>Use in projects applying Programmatic Biological Assessment Minimization Measure #74.<br>Fill-in #1 is the maximum decibel level.<br>(1 fill-in) |
| 1-07.5(6).OPT1(I).FR1 | (April 2, 2018)<br>Use in projects applying Programmatic Biological Assessment Minimization Measure #76.<br>Fill-in #1 is the waterbody name that has ESA listed species.<br>(1 fill-in) |
| 1-07.5(6).OPT1(J).FR1 | (April 2, 2018)<br>Use in projects applying Programmatic Biological Assessment Minimization Measure #82.<br>Fill-in #1 is the Washington city nearest to the project location.<br>(1 fill-in) |
| 1-07.5(6).OPT1(K).FR1 | (April 2, 2018)<br>Use in projects applying Programmatic Biological Assessment Minimization Measure #83.<br>Fill-in #1 is the Washington city nearest to the project location.<br>(1 fill-in) |
| 1-07.5(6).OPT1(L).FR1 | (April 2, 2018) |

Use in projects applying Programmatic Biological Assessment Minimization Measure #84.
Fill-in #1 is the Washington city nearest to the project location.
(1 fill-in)

1-07.5(6).OPT1(M).FR1 (April 2, 2018)
Use in projects applying Programmatic Biological Assessment Minimization Measure #85.
Fill-in #1 is the Washington city nearest to the project location.

1-07.5(6).OPT1(N).FR1 (April 2, 2018)
Use in projects applying Programmatic Biological Assessment Minimization Measure #86.
Fill-in #1 is the Washington city nearest to the project location.

1-07.5(6).OPT1(O).GR1 (April 2, 2018)
Use in projects applying Programmatic Biological Assessment Minimization Measure #87.

1-07.5(6).OPT1(P).FR1 (September 3, 2019)
Use in projects applying Programmatic Biological Assessment Minimization Measure #93.
Fill-in #1 is the type of visual or noisy work that is not allowed.
Fill-in #2 is the Washington city nearest to the project location.
(2 fill-ins)

1-07.5(6).OPT1(Q).GR1 (September 7, 2021)
Restricts the use of Galvanized or Zinc Coatings below the 100-year water level. Contact Region Biologist for direction on use.

1-07.5(6).OPT1(R).FR1 (September 7, 2021)
Use in projects that require a Project-specific Bird Protection Plan. Consult Region biologist for assistance.
(2 fill-ins)
Fill-in #1 defines the birds identified for protection.
Fill-in #2 identifies the Appendix in which the MTBA Assessment Report will be located

1-07.5(6).OPT2.GR1 Payment
(April 2, 2018)
Must use with **1-07.5(6).OPT1.GR1**.

**1-07.6.GR1 Permits and Licenses**

1-07.6.INST1.GR1 (Section 1-07.6 is supplemented with the following)
Must use once preceding any of the following:

1-07.6.OPT1.FR1 Permits and Licenses

(January 2, 2018)
An Environmental Commitment Meeting is expected as outlined in Division 4 of the Plans Preparation Manual.

*This GSP requires editing the data located in the permit table located at:
http://www.wsdot.wa.gov/publications/fulltext/projectdev/EnvironmentalDocumentation/1-07.6.OPT2.FR1_Table.doc, copying and pasting the revised table inside this fill-in area. This needs to be edited prior to insertion and final printing to delete all permits that are not required for the project and insert additional permits not part of the original table. All permits will be attached as an Appendix. Include the Department of Ecology permit coverage letter with the CSWGP. If using a Nationwide Permit, attach the most recent U.S. Army Corps of Engineers Nationwide Permit Verification Letter, conditions, and permit drawings.

(1 fill-in)

1-07.6.OPT3.GB1 **United States Coast Guard**
Must use once preceding any of the following:

1-07.6.OPT3(A).FB1 (January 2, 2018)
Use in projects over navigable waters when the Coast Guard is involved.
(2 fill-ins)

1-07.6.OPT3(B).GB1 United States Coast Guard
(September 3, 2019)
Use in all projects involving bridge work, including painting, in or near the navigable portion of a waterway when **1-07.6.OPT3(A).FB1** is not used.

**1-07.7.GR1 Load Limits**

1-07.7.INST1.GR1 (Section 1-07.7 is supplemented with the following)
Must use once preceding any of the following:

1-07.7.OPT3.FR1 (March 13, 1995)
Use when WSDOT provides a materials source and roads other than State highways are designated as the haul route.
(4 fill-ins)

1-07.7.OPT4.FR1 (March 13, 1995)
Use with **1-07.7.OPT3.FR1** when the agreement stipulates additional requirements.
(1 fill-in)

1-07.7.OPT5.GR1 (March 13, 1995)
Use in all projects where WSDOT provides a source of materials for part or all required materials.

1-07.7.OPT6.GR1 (March 13, 1995)
Use in projects when no source of materials is provided.

## 1-07.9.GR1 Wages

### 1-07.9(1).GR1 General

1-07.9(1).INST1.GR1 (Section 1-07.9(1) is supplemented with the following)
Must use once preceding any of the following:

1-07.9(1).OPT1.GR1 (January 10, 2022)
Use in all Federal Aid projects consisting of highway construction and/or landscaping.

For the selection and application of multiple wage schedules see the U.S. Department of Labor 'ALL AGENCY MEMORANDUM NO. 130' dated 3/17/1978 at: https://www.dol.gov/whd/programs/dbra/docs/memo-131.pdf.

1-07.9(1).OPT2.FR1 (January 10, 2022)
Use in Federal Aid projects consisting of both highway and building construction.
(1 fill-in)

For the selection and application of multiple wage schedules see the U.S. Department of Labor 'ALL AGENCY MEMORANDUM NO. 130' dated 3/17/1978 at: https://www.dol.gov/whd/programs/dbra/docs/memo-131.pdf.

1-07.9(1).OPT3.FR1 (May 11, 2010)
Use in Federal Aid projects consisting of only building construction.
(1 fill-in)

For the selection and application of multiple wage schedules see the U.S. Department of Labor 'ALL AGENCY MEMORANDUM NO. 130' dated 3/17/1978 at: https://www.dol.gov/whd/programs/dbra/docs/memo-131.pdf.

1-07.9(1).OPT5.FR1 (January 10, 2022)
Use in all Federal Aid project consisting of both highway and heavy construction.
(1 fill-in)

For the selection and application of multiple wage schedules see the U.S. Department of Labor 'ALL AGENCY MEMORANDUM NO. 130' dated 3/17/1978 at: https://www.dol.gov/whd/programs/dbra/docs/memo-131.pdf.

1-07.9(1).OPT6.FR1 (January 10, 2022)
Use in all Federal Aid projects consisting of highway, heavy, and building construction.
(2 fill-ins)

For the selection and application of multiple wage schedules see the U.S. Department of Labor 'ALL AGENCY MEMORANDUM NO. 130' dated 3/17/1978 at: https://www.dol.gov/whd/programs/dbra/docs/memo-131.pdf.

~~**1-07.9(2).GR1 Posting Notices**~~

~~1-07.9(2).INST1.GR1 (Item number 11 in Section 1-07.9(2) is revised to read)~~
~~Must use once preceding any of the following:~~

~~1-07.9(2).OPT1.2023.GR1 (January 10, 2022)~~
~~Use in all projects.~~

**1-07.9(3).GR1 Apprentices**

1-07.9(3).INST1.GR1 (Section 1-07.9(3) is supplemented with the following)
Must use once preceding any of the following:

1-07.9(3).OPT1.GR1 Apprentice Utilization
(~~January 6, 2020~~October 3, 2022)
Use only on projects advertised by the Washington State Department of Transportation. Use in projects with an Engineer's estimate of $2 million and greater.

**1-07.11.GR1 Requirements for Nondiscrimination**

1-07.11.INST1.GR1 (Section 1-07.11 is supplemented with the following)
Must use once preceding any of the following:

1-07.11.OPT1.GR1 Requirement for Affirmative Action to Ensure Equal Employment Opportunity
(~~September 3, 2019~~October 3, 2022)
Use in Federal Aid projects exceeding $10,000 in contract cost.

1-07.11.OPT2.GR1 Disadvantaged Business Enterprise (DBE) Participation
(~~September 7, 2021~~October 3, 2022)
REQUIREMENTS PERTAINING TO "No DBE Goals"
**DO NOT USE UNTIL FURTHER NOTICE.**

1-07.11.OPT3.FR1 Disadvantaged Business Enterprise (DBE) Participation.
(~~September 7, 2021~~October 3, 2022)
Requires a CONDITION-OF-AWARD GOAL
Use in selected Federal Aid projects with DBE Condition of Award (COA) goals. The final COA DBE Goal is to be furnished or verified by the Office of Equal Opportunity.
Use of **Disadvantaged Business Enterprise Utilization Certification** (DOT Form 272 056) and use of **Disadvantaged Business Enterprise Written Confirmation Document** (DOT Form 422-031) is required in the proposal.

Must use with ~~**1-02.6.OPT2.GR1 and**~~ **1-02.9.OPT1.GR1**
(1 fill-in) The fill-in shall be one of the following formats:

___ percent (___%) of the contract total; or
___ dollars for COA DBE goals
Do not use in projects with Federal Transit Administration (FTA) funding, or where FTA is the lead funding agency (use 1-07.11.OPT8.FR1 instead).
Do not use with **1-07.11.OPT7.GR1 or 1-07.11.OPT8.FR1**.

1-07.11.OPT4.FR1 Special Training Provisions
(~~June 6, 2022~~October 3, 2022)
Use in all Federal Aid projects with more than 50 working days that contain Training (Obtain Training Decision & Fill-in from OEO office).
(1 fill-in)

*Note: Fill-in is Total Hours.*

1-07.11.OPT6.FR1 Small and Veteran-Owned Business Enterprises (SVBE) and Minority and Women's Business Enterprise (MWBE) Participation
(~~June 29, 2022~~October 3, 2022)
Use in all State funded (100%) projects with an estimated cost of $250,000 or more. Contact OEO at GoalRequests@wsdot.wa.gov for determination of goals.
(2 fill-ins)
Fill-in #1 is the enforceable COA Goal for Small Business Enterprises
Fill-in #2 is the enforceable COA Goal for Veteran-Owned Businesses
Must also include **1-02.6.OPT1.GR1 and 1-02.9.OPT2.GR1**.

1-07.11.OPT7.FR1 Federal Small Business Enterprise (FSBE) Participation
(~~September 7, 2021~~October 3, 2022)
Use in selected Federal Aid projects with Federal Small Business Enterprise (FSBE) goals. The FSBE Goal is to be furnished or verified by the Office of Equal Opportunity.
(1 fill-in) The fill-in shall be in the following format:

___ percent (___%) of the contract total for FSBE goals; or
___ dollars for FSBE goals
**Do not use with 1-07.11.OPT3.FR1.**

1-07.11.OPT8.FR1 Disadvantaged Business Enterprise (DBE) Condition of Award Participation.
(~~June 1, 2017~~October 3, 2022)
Requires a CONDITION-OF-AWARD GOAL
Use in projects with Federal Transit Administration (FTA) funding, or where FTA is the lead funding agency, and the project contains DBE Condition of Award (COA) goals. The final COA DBE Goal is to be furnished or verified by the Office of Equal Opportunity.

Use of **Disadvantaged Business Enterprise Utilization Certification** (DOT Form 272 056) and use of **Disadvantaged Business Enterprise Written Confirmation Document** (DOT Form 422-031) is required in the proposal.
(1 fill-in) The fill-in shall be one of the following formats:

___ percent (___%) of the contract total for COA DBE goals; or
___ dollars for COA DBE goals
Do not use with **1-07.11.OPT3.FR1**.

**1-07.12.GR1 Federal Agency Inspection**

1-07.12.INST1.GR1 (Section 1-07.12 is supplemented with the following)
Must use once preceding any of the following:

1-07.12.OPT1.GR1 (July 25, 2022)
Use in all Federal Aid projects.

1-07.12.OPT2.FR1 Indian Preference and Tribal Ordinances
(~~August 1, 2011~~October 3, 2022)
Use in projects with any portion of the project on an Indian reservation.
(3 fill-ins) ($$1$$ is the Tribe or Reservation; $$2$$ is the Group(s) as shown on the Summary of Quantities where Work is performed on Tribal Lands, $$3$$ is the Tribal representative, telephone and address.)

**1-07.16.GR1 Protection and Restoration of Property**

**1-07.16(1).GR1 Private/Public Property**

**1-07.16(1)C.GR1 Private Property**

1-07.16(1)C.INST1.GR1 (Section 1-07.16(1)C is supplemented with the following)
Must use once preceding any of the following:

1-07.16(1)C.OPT1.GR1 (October 3, 2022)
Use on projects where the Contractor is expected to be accessing R/W from adjacent properties. This provision requires Contractor to obtain permission to use adjacent properties and submit a Working Drawing.

1-07.16(1)C.OPT2.GR1 (October 3, 2022)
Use in all WSF projects. Requires the Contractor to obtain permission to use adjacent properties.

**1-07.16(2).GR1 Vegetation Protection and Restoration**

1-07.16(2).INST1.GR1 (Section 1-07.16(2) is supplemented with the following)
Must use once preceding any of the following:

1-07.16(2).OPT1.GR1 (August 2, 2010)

Use in projects to specify preservation of existing desirable vegetation.

**1-07.16(4).GR1 Archaeological and Historical Objects**

1-07.16(4).INST1.GR1 (Section 1-07.16(4) is supplemented with the following)
Must use once preceding any of the following:

1-07.16(4).OPT1.GR1 (December 6, 2004)
Use in projects when reconnaissance studies indicate that there is the probability of finding cultural remains within the project limits which will require monitoring the project area during clearing, grubbing or excavation operations. Requires a pay item.

**1-07.17.GR1 Utilities and Similar Facilities**

1-07.17.INST1.GR1 (Section 1-07.17 is supplemented with the following)
Must use once preceding any of the following:

1-07.17.OPT1.FR1 (April 2, 2007)
Use in projects where there are utilities within the R/W that will not be adjusted, replaced or constructed by the utility owner or its contractor during the prosecution of the work.
(1 fill-in)

(May use with **1-07.17.OPT2.FR1** if utilities other than those described in this provision will be adjusted, replaced or constructed by the utility owner during the prosecution of the work.)

1-07.17.OPT2.FR1 (~~April 2, 2007~~October 3, 2022)
Use in projects where there are utilities within the R/W and those utilities will be adjusted, relocated or replaced by the utility owner or its contractor during the performance of the contract, or when the utility owner or its contractor will construct new utilities within the R/W during the performance of the contract.

(3 fill-ins) ($$1$$ is a description and location of the work the each utility owner or its contractor will complete, and the duration of that work or anticipated date of completion by each utility or its contractor. $$2$$ is the name of the utility company or companies, contact person, address, telephone number and e-mail address or other contact information as required to enable the Contractor to identify and contact each utility performing work during the life of the contract. $$3$$ is a description of any additional requirements that the contractor must perform in order to coordinate with the utility owner or its contractor, such as advance notifications to be provided to the utility for staged work.

(Use with **1-07.17.OPT1.FR1** if other utilities exist within the R/W that will not be adjusted, relocated or replaced by the utility owner.)

**1-07.18.GR1 Public Liability and Property Damage Insurance**

~~1-07.18.INST1.GR1 (Section 1-07.18 is supplemented with the following)~~
~~Must use once preceding any of the following:~~

~~1-07.18.OPT1.FR1 Relations With Railroad~~
~~(September 8, 2020)~~
~~Use in projects when a railroad is involved in the contract.~~
~~(6 fill-ins) ($$1$$ is list of railroad companies involved in contract; $$2$$ is amount of advance notice contractor is required to provide the Railroad prior to working adjacent to tracks; $$3$$ is name, address and telephone of the railroad contact person; $$4$$ is a list of work to be performed by the Railroad, other than flagging, as specified in the Railroad agreement; $$5$$ is the name, address, and telephone number of the Railroad contact person for right of entry; and $$6$$ is the Appendix number that lists the Draft Right of Entry Agreement.~~

~~The design office shall contact the Development Division Design Office, Railroad Liaison Engineer (360) 705-7459 for the fill in information.~~

**1-07.18(5).GR1 Required Insurance Policies**

1-07.18(5).INST1.GR1 (The first sentence of Item No. 1 of Section 1-07.18(5) is revised to read)
Must use once preceding any of the following:

1-07.18(5).OPT1.FR1 (Increased Insurance Requirement – Owners and Contractors Protective Insurance)
(September 7, 2021)
Use in projects when the Engineer's estimate is in excess of $10 million or in projects under $10 million when in the Engineer's judgment the project involves higher than normal risk(s). The project office should contact the Risk Management & Legal Services Division, Administrative Risk Manager (360) 704-6360 to discuss the project's risks. The Administrative Risk Manager will advise the region as to the need to require the additional insurance, and if so, will provide the fill in amount. This GSP should not be used if the fill-in amounts match the values listed in the Standard Specifications.
(1 fill-in)

1-07.18(5).OPT2.GR1 (Reduced Insurance Requirement)
(September 7, 2021)
Use in projects when the Engineer's estimate is $500,000 or less.
**Do not use with 1-07.18(5).INST1.GR1** because this GSP deletes Item number 1 in Section 1-07.18(5).
Must use with **1-07.18(5).OPT3.GR1**.

1-07.18(5).INST2.GR1 (The first sentence of Item No. 2 of Section 1-07.18(5) is revised to read)
Must use once preceding any of the following:

1-07.18(5).OPT3.GR1 (Reduced Insurance Requirement)
(September 7, 2021)
Use in all projects when the Engineer's estimate is $500,000 or less.
Must use with **1-07.18(5).OPT2.GR1**.

1-07.18(5).OPT4.FR1 (Increased Insurance Requirement - Commercial General Liability (CGL))
(September 7, 2021)
Use in projects when the Engineer's estimate is in excess of $10 million or in projects under $10 million when in the Engineer's judgment the project involves higher than normal risk(s). The project office should contact the Risk Management & Legal Services Division, Administrative Risk Manager (360) 704-6360 to discuss the project's risks. The Administrative Risk Manager will advise the region as to the need to require the additional insurance, and if so, will provide the fill in amounts. This GSP should not be used if the fill-in amounts match the values listed in the Standard Specifications.
(1 fill-in)

1-07.18(5).INST3.GR1 (Section 1-07.18.(5) is supplemented with the following)
Must use once preceding any of the following:

1-07.18(5).OPT5.GR1 (Builders Risk Insurance)
(~~January 3, 2011~~October 3, 2022)
Use in projects when in the Engineer's judgment the project facilities themselves may be exposed to significant damage. The Project Office should contact the Administrative Risk Manager, at the Risk Management & Legal Services Division to discuss any high risk components of the project regarding damage to departmental owned/rented facilities or assets. The Administrative Risk Manager will advise the region as to the need to require the additional insurance.
CAUTION: Using this provision will result in significantly higher project costs.

1-07.18(5).OPT6.FR1 (Pollution Liability Insurance)
(~~January 7, 2013~~October 3, 2022)
Use in all projects where in the Engineer's judgment the Work involves remediation of Environmental hazards, the Contractor shall obtain Contractor's Pollution Liability Insurance. The Project Office should contact the Administrative Risk Manager, at the Risk Management & Legal Services Division, to discuss the Projects Environmental risks to determine if Contractor's Pollution Liability Insurance (CPL) is needed. The Administrative Risk Manager will advise the region as to

the need to require the additional insurance, and if so, provide the fill in amount.
(1 fill-in)

~~1-07.18(5).OPT7.GR1 (Auto and Workers Compensation Insurance – BNSF)~~
~~(August 7, 2006)~~
~~Use with **1-07.18.OPT1.FR1** when BNSF is involved in the contract. Must include Contractor's Right of Entry and BNSF's Contractor Requirements as appendices. Contact the Environmental & Engineering Program Design Office, Railroad Liaison Engineer (360) 705-7271 for appendices.~~

~~1-07.18(5).OPT8.GR1 (Auto and Workers Compensation Insurance – UPRR)~~
~~(August 7, 2006)~~
~~Use with **1-07.18.OPT1.FR1** when UPRR is involved in the contract. Must include Contractor's Right of Entry and UPRR Contractor Requirements as appendices. Contact the Environmental & Engineering Program Design Office, Railroad Liaison Engineer (360) 705-7271 for appendices.~~

**1-07.23.GR1 Public Convenience and Safety**

**1-07.23(1).GR1 Construction Under Traffic**

1-07.23(1).INST1.GR1 (Section 1-07.23(1) is supplemented with the following)
Must use once preceding any of the following:

1-07.23(1).OPT1.FB1 (Traffic Restrictions)
(March 13, 1995)
Use in bridge painting projects.
(1 fill-in)

1-07.23(1).OPT4.GR1 (Temporary Access Breaks)
(December 6, 2004)
Use to allow temporary access to the traveled way at locations other than those defined in **Standard Specifications 1-07.23(1)**. Consider for use on all limited access facilities, and on non-interstate limited access.

Requires Region Approval for all projects. Requires FHWA Approval for use on limited access interstate facilities (allow 30 days minimum for approval). Requires Headquarters State Design Engineer approval for use on non-interstate limited access facilities. Region Project Development shall insure that site conditions meet the criteria contained in the provision. Region Construction and Traffic Offices should concur with projects selected for use. Contact Headquarters Design, Access and Hearings Engineer for guidance.

1-07.23(1).OPT5.FR1 (Lane Closure Restrictions)
(~~January 5, 2015~~October 3, 2022)

Use in projects where traffic volumes require lane closures restrictions. Includes additional information for general restrictions, access, delays, special events and advance notifications.~~that prohibit lane closures prior to a holiday, and where traffic volumes require that lane closures are restricted.~~
(~~3~~ 8 Fill-ins)
Fill-in #1 describes the specific facility or location and the hours that closures are allowed.
Fill-ins #2 and #3 designate the period of time over a holiday weekend when closures will not be allowed.
Fill-in #4 list special events.
Fill-in #5 describes the maximum delay at flagging or AFAD stations.
Fill-in #6, #7, and #8 provide information on delays when the Contracting Agency needs to make adjustments due to actual traffic conditions.

1-07.23(1).OPT6.GR1 (Accommodating Oversized Loads through the Work Zone)
(April 14, 2014)
Use in projects on the following routes:

I-5, I-405, I-90, I-82, I-182, SR 18, SR 167 and US 395 (Tri-Cities to Spokane)
If there is the potential for the travelled way to be reduced to less than 16 feet

The designer is authorized to modify this specification as necessary to coordinate with the rest of the contract provisions that may contradict, provided the intent of the GSP is maintained. The intent being; provide a clear width of at least 16 feet to accommodate a wide load, provide windows of time to accommodate a wide load (if possible) and/or provide notice as described. Changes in this specification should be coordinated with Commercial Vehicle Services.

This specification requires that the Engineer must approve any proposed reduction of the travelled way to a single lane with a clear width of less than 16 feet for duration of 4 calendar days or more.

1-07.23(1).OPT7.FR1 (Public Notification)
(October 3, 2022)
Use in projects where there are lane, ramp, or other closures.
(3 fill-ins)
Fill-in #1 is the number of working days signs are to be installed for closures.
Fill-ins #2 is the required the notifications stakeholders. Suggested notifications include Washington State Patrol, Local fire/police/emergency services, city engineering departments, affected school or transit, or other stakeholder.

Fill-in #3 is the number of working days in advance that notification is to occur.

1-07.23(1).OPT8.FR1 (Maintenance and Protection of Ferry Traffic)
(October 3, 2022)
Use in single-slip offshore WSF projects.
(1 fill-in)
Fill-in #1 is the name of the ferry terminal

1-07.23(1).OPT9.GR1 (Maintenance and Protection of Ferry Traffic)
(October 3, 2022)
Use in multi-slip offshore WSF projects.

1-07.23(1).OPT10.GR1 (Fourth of July Holiday)
(October 3, 2022)
Use in projects where holiday travel volumes will not make it feasible to work on the day between the weekend and the 4th of July holiday.

**1-07.24.GR1 Rights of Way**

1-07.24.INST1.GR1 (Section 1-07.24 is supplemented with the following)
Must use once preceding any of the following:

1-07.24.OPT1.FR1 (March 13, 1995)
Use in projects when it is possible that the right of way will not be fully acquired at the time of award.
(2 fill-ins)

1-07.24.OPT2.GR1 (October 3, 2022)
Use in all WSF projects, or when the Sundry Site Plan is being included in the Contract.

**1-07.28.GR1 Railroads**

1-07.28.INST1.GR1 (Section 1-07.28 is supplemented with the following)
Must use once preceding any of the following:

1-07.28.OPT1.FR1 (Additional Requirements for Working with the Railroad)
(October 3, 2022)
Use in projects when the Contracting Agency Work is within 25 feet of the centerline of the tracks. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information.
(1 fill-in)
Fill-in #1 is the name of the railroad company

1-07.28.OPT2.FR1 (October 3, 2022)
Use in projects when the Contracting Agency has entered into an agreement with the Railroad Company the Work is within 25 feet of the centerline of the tracks. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information.

(1 fill-in)
Fill-in #1 is the appendix number of the agreement.

1-07.28.OPT3.FR1 (Construction Work by Railroad Company)
(October 3, 2022)
Use when the Railroad Company is to provide work with the railroad company forces. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information.
(1 fill-in)
Fill-in #1 is the work activities that will be provided by the railroad company.

**1-07.28(1).GR1 General**

1-07.28(1).INST1.GR1 (Section 1-07.28(1) is supplemented with the following)
Must use once preceding any of the following:

1-07.28(1).OPT1.FR1 (Contractor's Right of Entry Agreement)
(October 3, 2022)
Use when the Contracting Agency has made a right of entry agreement with the Railroad. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information.
(2 fill-ins)
Fill-in #1 is the Railroad Company's contact for the Right of Entry Agreement.
Fill-in #2 is the appendix number for Contractor Right of Entry "SAMPLE".

**1-07.28(2).GR1 Submittals and Working Drawings**

1-07.28(2).INST1.GR1 (Section 1-07.28(2) is supplemented with the following)
Must use once preceding any of the following:

1-07.28(2).OPT1.FR1 (October 3, 2022)
Use in projects that require submittal review by a Railroad. Projects with work occurring below the bridge deck, work adjacent to the tracks, or work requiring containment systems, falsework, or formwork typically require Railroad review. Deck planing, deck repair, and overlays would typically not require Railroad review as the work is confined between the bridge rails and the deck surface. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information.
(2 fill-ins)
Fill-in #1 is the number of calendar days expected for each working drawing.
Fill-in #2 is the number of calendar days expected for a re-review of a working drawing.

**1-07.28(6).GR1 Railroad Protective Services**

1-07.28(6).INST1.GR1 (Section 1-07.28(6) is supplemented with the following)
Must use once preceding any of the following:

1-07.28(6).OPT1.FR1 (October 3, 2022)
Use when the Contracting Agency has made an agreement with the railroad for Railroad Flagging or other protective services. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information.
(2 fill-ins)
Fill-in #1 is the minimum notification to Railroad Company or work within 25' of centerline of tracks.
Fill-in #2 is the Railroad Company contact for scheduling Railroad Flagging or other protective services.

**1-07.28(8).GR1 Measurement and Payment**

1-07.28(8).INST1.GR1 (Section 1-07.28(8) is revised to read)
Must use once preceding any of the following:

1-07.28(8).OPT1.GR1 (October 3, 2022)
Use when the Contracting Agency has made an agreement with the railroad for Railroad Flagging or other protective services. Contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary.

**1-08.GR1 Prosecution and Progress**

**1-08.1.GR1 Subcontracting**

1-08.1.INST1.GR1 (Section 1-08.1 is supplemented with the following)
Must use once preceding any of the following:

1-08.1.OPT1.GR1 (Subcontracting)
(~~June 3, 2019~~October 3, 2022)
Use in all Federal Aid projects.

~~1-08.1.OPT2.FR1 Specialty Items~~
~~(March 13, 1995)~~
~~Use in projects when unusual work will likely have to be subcontracted. Obtain concurrence from Pre-contract Administration.~~
~~(1 fill-in)~~

1-08.1.OPT3.GR1 Qualifications Of Building Contractor
(March 13, 1995)
Use in road construction projects that also include building construction.

**1-08.3.GR1 Progress Schedule**

**1-08.3(1).GR1 General Requirements**

1-08.3(1).INST1.GR1 (The first sentence of Section 1-08.3(1) is revised to read)
Must use once preceding any of the following:

1-08.3(1).OPT1.GR1 (August 7, 2006)
Include in complex or high impact projects, requiring the use of a Type C Schedule, as described for GSP **1-08.3(2).OPT2.FR1** at the discretion of the Region Construction Manager. Use requires the approval of the HQ Construction Office.
Must include with **1-08.3(2).OPT2.FR1, 1-08.3(3).OPT1.GR1, 1-08.3(4).OPT1.GR1, 1-08.3(5).OPT1.GR1, and 1-08.3(5).OPT2.GR1**.

1-08.3(1).INST2.GR1 (Section 1-08.3(1) is supplemented with the following)
Must use once preceding any of the following:

1-08.3(1).OPT2.FR1 (Additional Required Activities on Progress Schedule)
(October 3, 2022)
Use in projects with milestones and/or activities that need to be shown on the progress schedule for successful schedule management. This may not be Work items, but permits, procurement, or other activities known to have risk or drive the length of the schedule. Suggested items include Railroad Right of Entry Agreements and materials requiring long procurement or fabrication periods, such as signal or light poles, structural elements, or mechanical items. If you have a right of entry agreement with the railroad, contact the Development Division Design Office, Railroad Liaison Engineer at (360) 705-7459 to determine if this GSP is necessary, and to obtain the fill-in information.
(1 fill-in)
Fill-in #1 is milestones and/or activities.

**1-08.3(2).GR1 Progress Schedule Types**

1-08.3(2).INST3.GR1 (Section 1-08.3(2) is supplemented with the following)
Must use once preceding any of the following:

1-08.3(2).OPT2.FR1 (Type C Progress Schedule)
(September 7, 2021)
Include in complex or high impact projects under the following conditions:

The Engineers Estimate exceeds $15 million or Time for Completion exceeds 180 working days, and when the project includes some or all of the following characteristics: multiple traffic shifts and staged construction is required; complete closure of ramps, surface streets, or interstate is required; designated detour routes require inter-agency agreements; state supplied materials and resources require significant advanced coordination; utility relocation by others is

dependent on staged construction; significant impacts to businesses and communities require regular public information reports; commitments to funding partners (not legislative) for specific completion timeframes are documented to exist.

Use requires concurrence of the Region Construction Manager and the approval of the HQ Construction Office. Must include with **1-08.3(1).OPT1.GR1, 1-08.3(3).OPT1.GR1, 1-08.3(4).OPT1.GR1, 1-08.3(5).OPT1 .GR1, and 1-08.3(5).OPT2.GR1.**
(1 fill-in)
Fill-in #1 is the current version of the scheduling software.

**1-08.3(3).GR1 Schedule Updates**

1-08.3(3).INST1.GR1 (Section 1-08.3(3) is revised to read)
Must use once preceding any of the following:

1-08.3(3).OPT1.GR1 (June 6, 2022)
Include in complex or high impact projects requiring the use of a Type C Schedule as described for GSP **1-08.3(2).OPT2.FR1** at the discretion of the Region Construction Manager. Use requires the approval of the HQ Construction Office.
Must include with **1-08.3(1).OPT1.GR1, 1-08.3(2).OPT2.FR1, 1-08.3(4).OPT1.GR1, 1-08.3(5).OPT1.GR1, and 1-08.3(5).OPT2.GR1.**

**1-08.3(4).GR1 Measurement**

1-08.3(4).INST1.GR1 (Section 1-08.3(4) is supplemented with the following)
Must use once preceding any of the following:

1-08.3(4).OPT1.GR1 (August 5, 2013)
Include in complex or high impact projects requiring the use of a Type C Schedule as described for GSP **1-08.3(2).OPT2.FR1** at the discretion of the Region Construction Manager. Use requires the approval of the HQ Construction Office. Must include with **1-08.3(1).OPT1.GR1, 1-08.3(2).OPT2.FR1, 1-08.3(3).OPT1.GR1, 1-08.3(5).OPT1.GR1, and 1-08.3(5).OPT2.GR1.**

**1-08.3(5).GR1 Payment**

1-08.3(5).INST1.GR1 (Section 1-08.3(5) is supplemented with the following)
Must use once preceding any of the following:

1-08.3(5).OPT1.GR1 (Schedule Update)
(September 7, 2021)
Include in complex or high impact projects, requiring the use of a Type C Schedule, as described for GSP **1-08.3(2).OPT2.FR1** at the discretion of the Region

Construction Manager. Use requires the approval of the HQ Construction Office. Must include with **1-08.3(1).OPT1.GR1, 1-08.3(2).OPT2.FR1, 1-08.3(3).OPT1.GR1, 1-08.3(4).OPT1.GR1, and 1-08.3(5).OPT2.GR1.**

1-08.3(5).OPT2.GR1 (Progress Schedule)
(September 7, 2021)
Include in complex or high impact projects, requiring the use of a Type C Schedule, as described for GSP 1-08.3(2).OPT2.FR1 at the discretion of the Region Construction Manager. Use requires the approval of the HQ Construction Office. Must include with **1-08.3(1).OPT1.GR1**, **1-08.3(2).OPT2.FR1**, **1-08.3(3).OPT1.GR1**, **1-08.3(4).OPT1.GR1** and **1-08.3(5).OPT1.GR1**.

**1-08.4.GR1 Prosecution of Work**

1-08.4.INST1.GR1 (The first sentence of Section 1-08.4 is revised to read)
Must use once preceding any of the following:

1-08.4.OPT1.FR1 (Establish starting date for roadway operations)
(August 3, 2015)
Must also use **1-08.5.OPT9.FR1**.
At the discretion of the Region Administrator, use in short term projects when a delayed start is desirable to allow the Contractor some latitude in scheduling the work. Recommendation by the Region Construction Office is advised.
(1 fill-in)

1-08.4.OPT2.GR1 (Variable start: State controls start)
(August 7, 2006)
Use in contracts where the contractor shall start work immediately after a happening or event to avoid high impacts to the public. At the time of issuance of the contract the date of that event or happening is not known. Region Construction Engineer, or equivalent, approval is required to use this provision. Must include **1-08.5.OPT1.FR1 and 1-08.5.OPT7.FR1.**

1-08.4.OPT3.FR1 (Fixed start: State controls start)
(August 7, 2006)
Use in contracts where the contractor shall start work immediately after a happening or event to avoid high impacts to the public. At the time of issuance of the contract the date of that event or happening is known. Region Construction Engineer, or equivalent, approval is required to use this provision. Must **include 1-08.5.OPT2.FR1 and 1-08.5.OPT7.FR1.**
(1 fill-in)

**1-08.5.GR1 Time for Completion**

1-08.5.INST1.GR1 (The third paragraph of Section 1-08.5 is revised to read)
Must use once preceding any of the following:

1-08.5.OPT1.FR1 (Variable start: State controls start)
(August 7, 2006)
Use in contracts where the contractor shall start work immediately after a happening or event to avoid high impacts to the public. At the time of issuance of the contract the date of that event or happening is not known. Region Construction Engineer, or equivalent, approval is required to use this provision. Must include
**1-08.4.OPT2.GR1 and 1-08.5.OPT7.FR1.**
(2 fill-ins) Fill-ins are contract start times.

1-08.5.OPT2.FR1 (Fixed start: State controls start)
(August 7, 2006)
Use in contracts where the contractor shall start work immediately after a happening or event to avoid high impacts to the public. At the time of issuance of the contract the date of that event or happening is known. Region Construction Engineer, or equivalent, approval is required to use this provision. Must include
**1-08.4.OPT3.FR1 and 1-08.5.OPT7.FR1.**
(1 fill-in) Fill-in is contract start time.

1-08.5.INST2.GR1 (Section 1-08.5 is supplemented with the following)
Must use once preceding any of the following:

1-08.5.OPT7.FR1 (Time for physical completion)
(March 13, 1995)
Use in all projects not requiring one of the following "TIME FOR COMPLETION" GSP's.
(1 fill-in)

1-08.5.OPT8.FR1 (Time for physical completion)
(March 13, 1995)
Must also use **1-08.9.OPT1.FR1.**
Use in projects requiring an interim or temporary controller for early use of a signal system and where an intermediate physical completion time is required.
(2 fill-ins)

1-08.5.OPT9.FR1 (Time for physical completion)
(December 4, 2006)
Must also use **1-08.4.OPT1.FR1.**
(2 fill-ins)
Fill-in #2 is the same as fill-in #1 for **1-08.4.OPT1.FR1**.

1-08.5.OPT10.FR1 (Time for physical completion)
(March 13, 1995)
Use in projects with signal work and the Contracting Agency furnishes the signal control equipment.
(1 fill-in)

1-08.5.OPT11.FR1 Incentive For Early Completion

(August 4, 2003)
Use in projects requiring an incentive for early completion. Prior approval from the State Construction office is required for the use of this GSP.
(4 fill-ins)
$$1$$, $$2$$ and $$4$$ are substantial or physical, $$3$$ is dollar value established by the Region, must be justified by road user costs.

**1-08.6.GR1 Suspension of Work**

1-08.6.INST1.GR1 (Section 1-08.6 is supplemented with the following)
Must use once preceding any of the following:

1-08.6.OPT1.FR1 (Procurement Suspension)
(January 3, 2017)
Requires approval of HQ Construction. Use in projects requiring materials that have long lead times for procurement or fabrication, or proprietary/specialized materials, HMA Mix Design evaluation, and procurement of the materials or HMA Design evaluation is a controlling factor in the time for completion. Not recommended if material procurement or mix design approval are not critical path items. Use 1-08.6.OPT2.FR1 instead, if project does not include HMA paving.

Fill-in #1 identifies materials that are critical for timely completion and require fabrication or long lead times for procurement. Examples of critical materials may include: Hot Mix Asphalt, landscaping (cultivated) items, permanent signing, steel guardrail posts, ITS equipment, modular expansion joints, bridge railing, hydraulic/electrical rehabilitation components, bridge girders, steel jackets for seismic retrofits, castings, single-source drain pipe, signal controllers, light standards, or signal standards.

Fill-in #2 limits the duration of the suspension for acquisition of critical materials. The duration of the suspension should be appropriate for the work being performed, and will vary according to the type of materials required.

The use of a short duration may be impossible to achieve or may raise the cost of the project.
(2 fill-ins)

1-08.6.OPT2.FR1 (Procurement Suspension
(January 2, 2018)
Use in projects requiring materials that have long lead times for procurement or fabrication, or proprietary/specialized materials, and procurement of the materials is a controlling factor in the time for completion.
(1 fill-in)

**1-08.9.GR1 Liquidated Damages**

1-08.9.INST2.GR1 (Section 1-08.9 is revised to read)
Must use once preceding any of the following:

1-08.9.OPT1.FR1 (Failure to complete temporary signal system)
(March 13, 1995)
Use in projects requiring an interim or temporary controller for early use of a signal system and where an intermediate physical completion time is required. The Region must determine the appropriate liquidated damages based on road user costs.
Must also use **1-08.5.OPT8.FR1** and **1-08.9.OPT3.FR1**.
(1 fill-in)

1-08.9.OPT2.FR1 (Interim Completion Liquidated Damages)
(April 6, 2009)
Use in projects where an interim completion time is desired (such as the completion of a stage of work, lane closure, or ITS disruption), and the Region determines that user costs for failure to complete the specified portion of work, as calculated by the Transportation Data Office, are significant enough to warrant liquidated damages. Determination of the liquidated damage amount must adhere to Chapter 700.01 of the Plans Prep Manual.
(6 fill-ins) $$1$$ describes the work to be completed; $$2$$ is the user cost; $$3$$ and $$4$$ is the unit of time (minutes, hours or days); $$5$$ is the smallest increment of time that will be measured; and $$6$$ is the contract provision that specifies the completion time.
Must also use **1-08.9.OPT3.FR1**.

1-08.9.INST3.GR1 (Section 1-08.9 is supplemented with the following)
Must use once preceding any of the following:

1-08.9.OPT3.FR1 (Liquidated Damages)
(September 8, 2020)
Use in all projects.
(1 fill-in)
Fill-in shall be the amount determined by the Design Liquidated Damages Calculation Sheet: http://www.wsdot.wa.gov/publications/fulltext/ProjectDev/DesignLiquidatedDamagesCalculationSheet.xlsm.

## 1-09.GR1 Measurement and Payment

### 1-09.3.GR1 Scope of Payment

1-09.3.INST1.GR1 (Section 1-09.3 is supplemented with the following)
Must use once preceding any of the following:

1-09.3.OPT1.FR1 Fuel Cost Adjustment
(August 7, 2017)
Use requires Region Construction Manager Approval and concurrence from HQ Construction Office. At the Region's discretion, use in projects with more than 200 working days that include any of the bid items that are eligible for

adjustment. Include an estimated amount for the bid item "Fuel Cost Adjustment" in the Engineers Estimate. Only the items described below are eligible for adjustment.

(2 or more fill-ins) Fill-ins are the bid items that are eligible for adjustment, and fuel usage factors for those bid items.

To determine which Bid Items are eligible for Adjustment:
If the bid proposal contains items that fit the description of the items listed below, then those bid items are eligible for adjustment.

Eligible Bid Item Fuel Usage Factor
____ Excavation Incl. Haul, per cubic yard 0.29 gal/cy
____ Excavation Incl. Haul –
Area ____ per cubic yard 0.29 gal/cy
____ Borrow Incl. Haul, per cubic yard 0.25 gal/cy
____ Borrow Incl. Haul, per ton 0.17 gal/ton
Structure Excavation Class ___
Incl. Haul, per cubic yard 0.25 gal/cy
Shoring or Extra Excavation Class A _____,
lump sum 0.04 gal/dollar
Crushed Surfacing ____, per ton 0.70 gal/ton
Crushed Surfacing ____, per cubic yard 1.02 gal/cy
Processing and Finishing, per mile 270 gal/mile
Agg. From Stockpile for BST, per cubic yard
0.61 gal/cy
Furnishing and Placing Crushed ____,
per cubic yard 1.02 gal/cy
HMA Cl. ____ PG ____, per ton 0.90 gal/ton
HMA for ____, per ton 0.90 gal/ton
Commercial HMA, per ton 0.90 gal/ton
Cement Concrete Pavement, per cubic yard 1.0 gal/cy
Cement Concrete Pavement -
Including Dowels, per cubic yard 1.0 gal/cy
Concrete Class ____, per cubic yard 1.0 gal/cy
Commercial Concrete, per cubic yard 1.0 gal/cy
Superstructure ____, lump sum 0.02 gal/dollar
St. Reinf. Bar, per pound 0.02 gal/Lb
Epoxy-Coated St. Reinf. Bar, per pound 0.02 gal/Lb

Determine the Engineers Estimate for the bid item "Fuel Cost Adjustment":

Base Fuel Cost and Estimated Monthly Fuel Cost:

Obtain the most current *Monthly* fuel price from the U.S. Energy Information Administration website. The website location and directions are as follows:

- http://www.eia.gov/petroleum/gasdiesel/
- On the web page, click on the ***West Coast less California***, listed under the heading ***U.S On-Highway Diesel Fuel Prices*(dollar per gallon)*** at the lower end of the web page.

- In the pull down box labeled ***Period*** pull down ***Monthly***
- Click on the fuel price history found under the column heading ***View History*** for the line ***Diesel (On-Highway) – All Types***.

Multiply the Base Fuel Cost by the appropriate Contract Duration Factor (below) to determine the Estimated Monthly Fuel Cost.

| Contract Duration | Contract Duration Factor |
|---|---|
| 200 Working days to 1 year | 1.12 |
| 1 to 2 years | 1.25 |
| 2 to 3 years | 1.37 |
| 3 to 4 years | 1.49 |
| 4 to 5 years | 1.62 |

Estimate the amount of the Adjustment:
Use the formulas below.

Adjustment = (Est. Monthly Fuel Cost – (1.10 x Base Fuel Cost)) x Q

Where Q = □ ((Fuel Usage Factor) x (Total Quantity of each Eligible Bid Item)) for all Eligible Bid Items.

Sample Calculation:
My project is 300 working days. It contains 10,000 tons of HMA Cl. 1/2" PG 70-22, and 500 tons of CSBC.

HMA Cl. 1/2" PG 70-22 is Eligible for Adjustment.
Crushed Surfacing Base Course is Eligible for Adjustment.

From U.S. Energy Information Administration website : most recent Monthly Fuel Price = 3.06 dollars per gallon. This monthly price becomes the Base Fuel Cost.

Therefore:
Base Fuel Cost = 3.06 dollars/gal
Est. Monthly Fuel Cost = Base Fuel Cost x Contract Duration Factor
Est. Monthly Fuel Cost = 3.06 x 1.25 = 3.825 dollars/gal

Q = (0.70 gal/ton x 500 tons) + (0.90gal/ton x 10,000 tons)
Q = 9,350 gal

Adjustment = (3.82 dollars/gal – (1.10 x 3.06 dollars/gal)) x 9,350 gal

Adjustment = $4,291.65= $4,300

1-09.3.OPT2.FR1 Steel Cost Adjustments
(August 6, 2018)

Use in all projects that use quantities of steel in excess of 50,000 pounds, including non-proprietary walls, pedestrian bridges and vehicular bridges.

Fill-in #1 is the initial cost basis of steel and should use a value of $0.40/lb. Any deviation from the default value of $0.40/lb requires approval of the HQ Construction Office.

Fill-in #2 is a list of the bid items that are eligible for steel cost adjustment. This can include bid items that are entirely composed of steel (e.g., Steel Reinforcing Bar for Bridge) and can also include lump sum items that use significant quantities of steel (e.g., Superstructure, Lump Sum). Contact the HQ Strategic Analysis and Estimating Unit for assistance preparing the Engineer's Estimate for the bid item "Steel Cost Adjustment."
(2 fill-ins)

**1-09.8.GR1 Payment for Material On Hand**

1-09.8.INST1.GR1 (The last paragraph of Section 1-09.8 is revised to read)
Must use once preceding any of the following:

1-09.8.OPT1.GR1 (August 3, 2009)
Use in projects that are over $2 million and have more than 120 working days.

**1-09.9.GR1 Payments**

**1-09.9(1).GR1 Retainage**

1-09.9(1).INST1.GR1 (Section 1-09.9(1) including title is deleted and replaced with the following)
Must use once preceding any of the following:

1-09.9(1).OPT1.GR1 (Vacant)
(June 27, 2011)
Use in all Federal Aid projects.

**1-10.GR1 Temporary Traffic Control**

**1-10.1.GR1 General**

1-10.1.INST1.GR1 (Section 1-10.1 is supplemented with the following)
Must use once preceding any of the following:

1-10.1.OPT1.FR1 (Agency-Provided Traffic Control Resources)
(April 1, 2013)
Use on projects where the Region will be providing some labor, equipment or material resource to the Contractor. Typically will include signs, posts, pilot car drivers, etc. The decision to provide resources and the use of this provision requires the approval of the Region Construction Manager.

The first fill-in is a detailed list of the resources to be provided. Include a description of the item, the quantity (if appropriate), its location and any special instructions to the Contractor for acquiring the item. Include a reference to the description of work provision where the resource is to be applied. The second fill-in is the number of working days you want the Contractor to notify the Engineer before each duration of use of the resources.

(2 fill-ins)

1-10.1.OPT2.FR1 (Agency-Arranged Law Enforcement)
(May 20, 2020)
Use on projects where the use of WSP personnel is included in the Contract. The decision to use this provision requires the approval of the ARA for Construction or designee.
(2 fill-ins)

Fill-in #1 is a list of the specific duties the WSP personnel may perform during active work zones. Refer to the WSDOT Traffic Manual (M 51-02) Chapter 5-19.C for a list of specific recommended assignments. WSP should not be shown on the traffic control plans and the duties should be independent from the traffic control installation, operation and removal.
Fill-in #2 is the number of hours that the Contracting Agency will pay the full cost of these WSP duties. This number may be zero if allowing the contractor to request the WSP duties at a 50/50 cost-sharing option during the project is determined acceptable.

**1-10.1(1).GR1 Materials**

1-10.1(1).INST1.GR1 (Section 1-10.1(1) is supplemented with the following)
Must use once preceding any of the following:

1-10.1(1).OPT1.GR1 (Automated Flagger Assistance Devices)
(January 10, 2022)
Recommend using in projects utilizing one-way traffic control on two-lane routes with a posted speed of 55MPH or more, but may also be used on lower speed roadways. Near signalized intersections, flaggers should be used to control traffic.
Must use with **1-10.3(3).OPT1.GR1, 1-10.4(2).OPT2.GR1, and 1-10.5(2).OPT1.GR1.**

**1-10.2.GR1 Traffic Control Management**

**1-10.2(1).GR1 General**

1-10.2(1).INST1.GR1 (Section 1-10.2(1) is supplemented with the following)
Must use once preceding any of the following:

1-10.2(1).OPT1.GR1 (Acceptable TCS Training)

(~~January 10, 2022~~October 3, 2022)
Include in all projects that include the bid item Traffic Control Supervisor, or include the bid item Project Temporary Traffic Control.

1-10.2(1).OPT2.GR1 (Traffic Control Supervisor)
(January 5, 2015)
May be used on projects with temporary traffic control where a greater experience level is desired for the primary Traffic Control Supervisor. Typical projects where use of the GSP would be considered may have complex traffic control plans, increased risk of worker safety, or impacts to the public.

1-10.2(9-35).GR1 (Temporary Traffic Control Materials)
(Section 9-35 is supplemented with the following)
Must use once preceding any of the following:

1-10.2(9-35).OPT1.GR1 (Temporary Portable Transverse Rumble Strips)
(October 3, 2022)
Use on projects that have flagging operations and speeds are 45mph or higher. Consult region traffic engineer for assistance.

Must use with **1-10.3(3).OPT5.GR1**, **1-1-10.4(2).OPT8.GR1** and **1-10.5(2).OPT6.GR1**.

**1-10.3.GR1 Traffic Control Labor, Procedures and Devices**

1-10.3.INST1.GR1 (Section 1-10.3 is supplemented with the following)
Must use once preceding any of the following:

1-10.3.OPT1.FR1 (Contractor-Provided Uniformed Police Officers)
(May 20, 2020)
Use on projects where the traffic control plans show Uniformed Police Officers performing traffic control-related duties.

(1 fill-in)
The fill-in should provide contact information for local law enforcement agencies that may be able to provide this service. The WSP district contact for the project location may also be provided.

Use with **1-10.4(2).OPT6.GR1** and **1-10.5(2).OPT5.GR1**.
For use on WSDOT projects only.

**1-10.3(3).GR1 Traffic Control Devices**

1-10.3(3).INST1.GR1 (Section 1-10.3(3) is supplemented with the following)
Must use once preceding any of the following:

1-10.3(3).OPT1.GR1 (Automated Flagger Assistance Devices)
(January 10, 2022)

Use in projects to include the Automated Flagger Assistance Devices (AFAD).
Must use with **1-10.1(1).OPT1.GR1, 1-10.4(2).OPT2.GR1, and 1-10.5(2).OPT1.GR1.**

1-10.3(3).OPT2.GR1 (Radar Speed Display Signs)
(January 2, 2018)
Consider use on freeway projects when traffic will be reduced to a single lane with temporary traffic control and workers will be present in close proximity behind channelization devices. Consider a regulatory speed limit reduction when the single lane of traffic will be shifted onto the shoulder away from the work area. The Region Traffic Engineer will need to approve the speed limit reduction.
Must use with **1-10.3(3)(9-35).OPT1.GR1, 1-10.4(2).OPT3.GR1, and 1-10.5(2).OPT2.GR1.**

1-10.3(3).OPT3.FR1 (Smart Work Zone System)
(~~September 7, 2021~~October 3, 2022)
Consider including a smart work zone system (SWZS) for projects where long-term (4 or more days) temporary traffic control restrictions will cause regular or ongoing traffic congestion and delays in approximately the same location. This system is intended for queues up to 9 miles. Typical traffic control plans are available for 6-mile and 9-mile systems. Queue detection warning, dynamic lane merge, and travel delay offer work zone queue mitigation. Consult your region traffic engineer for assistance.

If Project Temporary Traffic Control is lump sum (with reinstated items), use with **1-10.4(3).OPT2.GR1 and 1-10.5(2).OPT3.GR1**.

If Project Temporary Traffic Control is not lump sum (item bids with lump sum for incidentals), use with **1-10.4(2).OPT5.GR1 and 1-10.5(2).OPT3.GR1**.

1-10.3(3).OPT4.FR1 (Queue Warning System)
(~~September 7, 2021~~October 3, 2022)
Consider including a queue warning system (QWS) for projects where daily, nightly, weekend, or durations up to one week where temporary traffic control restrictions will cause intermittent traffic congestion and delays in different locations as closures move with work operations (such as pavers) but also in the same location. This system is intended for queues of up to 3 miles. Freeway Typical Traffic Control Plans will soon be updated to include the Queue Warning System option (Sheet 1A). Queue detection warning and dynamic lane merge offer work zone queue mitigation. Consult region traffic engineer for assistance.

If Project Temporary Traffic Control is lump sum (with reinstated items), use with **1-10.4(3).OPT3.GR1** and **1-10.5(2).OPT4.GR1**.

If Project Temporary Traffic Control is not lump sum (item bids with lump sum for incidentals), use with **1-10.4(2).OPT7.GR1** and **1-10.5(2).OPT4.GR1**.

1-10.3(3).OPT5.GR1 (Temporary Portable Transverse Rumble Strips)
(October 3, 2022)
Use when a project has flagging operations and speeds are 45mph or higher. Consult region traffic engineer for assistance.

If Project Temporary Traffic Control is lump sum (with reinstated items), use with **1-10.4(3).OPT3.GR1** and **1-10.5(2).OPT4.GR1**.

If Project Temporary Traffic Control is not lump sum (item bids with lump sum for incidentals), use with **1-10.2(9-35).OPT1.GR1**, **1-10.4(2).OPT8.GR1** and **1-10.5(2).OPT6.GR1**.

1-10.3(3)(9-35.8).GR1 (Section 9-35.8 is revised to read)
Must use once preceding any of the following:

1-10.3(3)(9-35.8).OPT1.GR1 (Radar Speed Display Signs)
(April 1, 2019)
Use on projects that will be utilizing Radar Speed Display Signs. The Region Traffic Engineer will need to approve the speed limit reduction.
Must use with **1-10.3(3).OPT2.GR1, 1-10.4(2).OPT3.GR1, and 1-10.5(2).OPT2.GR1.**

1-10.3(3)B(9-35.4).GR1 (Section 9-35.4 is supplemented with the following)
Must use once preceding any of the following:

1-10.3(3)B(9-35.4).OPT1.2024.GR1 (GPS and Remote Communication Requirements)
(October 3, 2022)
Use on all interstate projects where the traffic control plans show sequential arrow signs being used.

~~**1-10.3(3)C.GR1 Portable Changeable Message Sign**~~

~~1-10.3(3)C.INST1.GR1 (Section 1-10.3(3)C is revised to read)~~
~~Must use once preceding any of the following:~~

~~1-10.3(3)C.OPT1.2023.GR1 (January 10, 2022)~~
~~Use in all projects.~~

~~1-10.3(3)C(9-35.5).GR1 (Section 9-35.5 is revised to read)~~
~~Must use once preceding any of the following:~~

**1-10.4.GR1** **Measurement**

One of these three GSPs must be included in every project with traffic control: **1-10.4(1).OPT1.GR1, 1-10.4(2).OPT1.GR1, 1-10.4(3).OPT1.FR1.**

**1-10.4(1).GR1** **Lump Sum Bid for Project (No Unit Items)**

1-10.4(1).INST1.GR1 (Section 1-10.4(1) is supplemented with the following)
Must use once preceding any of the following:

1-10.4(1).OPT1.GR1 (Total Project Lump Sum Payment)
(August 2, 2004)
Use on projects where there will be only one item for all temporary traffic control in the bid proposal. Lump sum traffic control requires the establishment of a lump sum item and the deletion of all other standard temporary traffic control items.

This method of payment may be used any project with the approval of the Region Construction Manager or designee. It is not recommended for projects with traffic control costs that are difficult to determine as the bidder must have a reasonable opportunity to predict the necessary temporary traffic control measures and prepare a responsible estimate.

Do not use with **1-10.4(2).OPT1.GR1 or 1-10.4(3).OPT1.FR1.**

**1-10.4(2).GR1** **Item Bids With Lump Sum for Incidentals**

1-10.4(2).INST1.GR1 (Section 1-10.4(2) is supplemented with the following)
Must use once preceding any of the following:

1-10.4(2).OPT1.GR1 (Standard Items)
(August 2, 2004)
Use on projects that will be utilizing the Traffic Control Bid items referenced in the provisions. While there may be lump sum Bid items within that list, this is not a total-project lump sum bid.

Do not use with **1-10.4(1).OPT1.GR1 or 1-10.4(3).OPT1.FR1.**

1-10.4(2).OPT2.GR1 (Automated Flagger Assistance Devices)
(January 10, 2022)
Use on projects that will be utilizing AFAD. A separate flagger must operate each AFAD in accordance with the MUTCD, so the bid item Flagger must also be used.
Must use with **1-10.1(1).OPT1.GR1, 1-10.3(3).OPT1.GR1, and 1-10.5(2).OPT1.GR1.**

1-10.4(2).OPT3.GR1 (Radar Speed Display Signs)
(January 2, 2018)
Use on projects that will be utilizing Radar Speed Display Signs. The Region Traffic Engineer will need to approve the speed limit reduction.
Must use with **1-10.3(3).OPT2.GR1, 1-10.3(3)(9-35).OPT1.GR1, and 1-10.5(2).OPT2.GR1.**

1-10.4(2).OPT5.GR1 (Smart Work Zone System)
(September 7, 2021)
Use on projects when a Smart Work Zone System will be utilized and Project Temporary Traffic Control is not lump sum.

Use with **1-10.3(3).OPT3.FR1** and **1-10.5(2).OPT3.GR1**.

1-10.4(2).OPT6.GR1 (Contractor Provided Uniformed Police Officer)
(May 20, 2020)
Use on projects where the traffic control plans show Uniformed Police Officers performing traffic control-related duties

Use with **1-10.3.OPT1.GR1** and **1-10.5(2).OPT5.GR1**.

1-10.4(2).OPT7.GR1 (Queue Warning System)
(September 7, 2021)
Use on projects when a Queue Warning System will be utilized and Project Temporary Traffic Control is not lump sum.

Use with **1-10.3(3).OPT4.FR1** & **1-10.5(2).OPT4.GR1**.

1-10.4(2).OPT8.GR1 (Temporary Portable Transverse Rumble Strips)
(October 3, 2022)
Use on projects that have flagging operations and speeds are 45mph or higher. Consult region traffic engineer for assistance.

If Project Temporary Traffic Control is not lump sum (item bids with lump sum for incidentals), use with **1-10.2(9-35).OPT1.GR1, 1-10.3(3).OPT5.GR1** and **1-10.5(2).OPT6.GR1**.

**1-10.4(3).GR1 Reinstating Unit Items With Lump Sum Traffic Control**

1-10.4(3).INST1.GR1 (Section 1-10.4(3) is supplemented with the following)
Must use once preceding any of the following:

1-10.4(3).OPT1.FR1 (Project Lump Sum)
(August 2, 2004)
Use on projects that will be total project lump sum except that some other traffic control Bid items will be utilized on the project. Use of this provision requires the approval of the Region Construction Manager or designee.

This method of payment might be applied to a job that would be total project lump sum except that some part of the work is not readily predictable. The need for Flaggers might be unclear or there could be an indeterminate future need for public information utilizing Portable Changeable Message Signs.

The fill-in for this provision is a list of the traffic control Bid items that are included according to **Sections 1-10.4(3)** and **1-10.5(3).** Do not use with **1-10.4(1).OPT1.GR1** or **1-10.4(2).OPT1.GR1.**
(1 fill-in)

1-10.4(3).OPT2.GR1 (Project Temporary Traffic Control Lump Sum – Smart Work Zone System)
(September 7, 2021)
Use on projects that will be project lump sum and selected Bid items, including the operation of Smart Work Zone System Bid items, will be utilized on the project. Use of this provision requires the approval of the Region Construction Manager or designee.

Use with **1-10.3(3).OPT3.FR1** and **1-10.5(2).OPT3.GR1**.

1-10.4(3).OPT3.GR1 (Project Temporary Traffic Control Lump Sum Queue Warning System)
(September 7, 2021)
Use on projects that will be project lump sum and selected Bid items, including the Operation of Queue Warning System, will be utilized on the project. Use of this provision requires the approval of the Region Construction Manager or designee.

Use with **1-10.3(3).OPT4.FR1** and **1-10.5(2).OPT4.GR1**.

**1-10.5.GR1 Payment**

**1-10.5(2).GR1 Item Bids with Lump Sum for Incidentals**

1-10.5(2).INST1.GR1 (Section 1-10.5(2) is supplemented with the following)
Must use once preceding any of the following:

1-10.5(2).OPT1.GR1 (Automated Flagger Assistance Devices)
(January 10, 2022)
Use in projects utilizing AFAD.
Must use with **1-10.1(1).OPT1.GR1, 1-10.3(3).OPT1.GR1, and 1-10.4(2).OPT2.GR1.**

1-10.5(2).OPT2.GR1 (Radar Speed Display Signs)
(January 2, 2018)

Use in projects utilizing Radar Speed Display Signs. The Region Traffic Engineer will need to approve the speed limit reduction.
Must use with **1-10.3(3).OPT2.GR1, 1-10.3(3)(9-35).OPT1.GR1, and 1-10.4(2).OPT3.GR1.**

1-10.5(2).OPT3.GR1 (Smart Work Zone System)
(September 7, 2021)
Use in projects when a Smart Work Zone System will be utilized.

When using Project Temporary Traffic Control with reinstated items, use with **1-10.3(3).OPT3.FR1** and **1-10.4(3).OPT2.GR1.**

When using Bid items with lump sum for incidentals (no lump sum traffic control), use with **1-10.3(3).OPT3.FR1** and **1-10.4(2).OPT5.GR1**.

1-10.5(2).OPT4.GR1 (Queue Warning System)
(September 7, 2021)
Use on projects when a Queue Warning System will be utilized.

When using Project Temporary Traffic Control with reinstated items, use with **1-10.3(3).OPT4.FR1** and **1-10.4(3).OPT3.GR1**.

When using Bid items with lump sum for incidentals (no lump sum traffic control), use with **1-10.3(3).OPT4.FR1** and **1-10.4(2).OPT7.GR1**.

1-10.5(2).OPT5.GR1 (Contractor Provided Uniformed Police Officer)
(May 20, 2020)
Use on projects where the traffic control plans show Uniformed Police Officers performing traffic control-related duties.

Use with **1-10.3.OPT1.GR1** and **1-10.4(2).OPT6.GR1**.

1-10.5(2).OPT6.GR1 (Temporary Portable Rumble Strips)
(October 3, 2022)
Use when a project has flagging operations and speeds are 45mph or higher. Consult region traffic engineer for assistance.

When using Project Temporary Traffic Control with reinstated items, use with **1-10.2(9-35).OPT1.GR1, 1-10.3(3).OPT5.FR1** and **1-10.4(2).OPT8.GR1**.

# INTRODUCTION

This Contract shall be constructed in accordance with the ~~2022~~ 2023 Standard Specifications for Road, Bridge, and Municipal Construction.

# SPECIAL PROVISIONS

Several types of Special Provisions are included in this contract; General, Region, Bridges and Structures, and Project Specific. Special Provisions types are differentiated as follows:

| | |
|---|---|
| (date) | General Special Provision |
| (******) | Notes a revision to a General Special Provision and also notes a Project Specific Special Provision. |
| (Regions[1] date) | Region Special Provision |

**General Special Provisions** are similar to Standard Specifications in that they typically apply to many projects, usually in more than one Region. Usually, the only difference from one project to another is the inclusion of variable project data, inserted as a “fill-in”.

**Region Special Provisions** are commonly applicable within the designated Region. Region designations are as follows:

| Regions[1] | |
|---|---|
| ER | Eastern Region |
| NCR | North Central Region |
| NWR | Northwest Region |
| OR | Olympic Region |
| SCR | South Central Region |
| SWR | Southwest Region |
| WSF | Washington State Ferries Division |

**Project Specific Special Provisions** normally appear only in the contract for which they were developed.

Page Intentionally Left Blank

1-02.GR1

## Bid Procedures and Conditions

1-02.1.GR1

### Prequalification of Bidders

1-02.1.INST1.GR1

Section 1-02.1, including title, is deleted and replaced with the following:

1-02.1.OPT1.GR1

***(April 2, 2018)***

***Vacant***

1-02.4.GR1

### Examination of Plans, Specifications and Site of Work

1-02.4(1).GR1

***General***

1-02.4(1).INST1.GR1

Section 1-02.4(1) is supplemented with the following:

1-02.4(1).OPT1.FR1

(September 3, 2019)

The Reference Information for this project is available for review by the bidder at the following location:

*** $$1$$ ***

The Reference Information includes the following:

*** $$2$$ ***

1-02.6.GR1

### Preparation of Proposal

1-02.6.INST2.GR1

The fourth paragraph of Section 1-02.6 is revised to read:

1-02.6.OPT1.GR1

(March 14, 2022)

The Bidder shall submit a completed Small and Veteran-Owned Business Plan (SVB Plan, WSDOT Form 226-018) with the Bid, when required by the Special Provisions.

For each and every Small or Veteran-Owned Business firm listed on the Bidder's completed SVB Plan, the Bidder shall submit a completed SVBE Subcontractor Written Confirmation Form (WSDOT Form 226-017) that confirms the listed firm is in agreement with the SVBE participation commitment that the Bidder has made in the Bidder's completed SVB Plan. Bidder must submit good faith effort documentation only in the event the Bidder's efforts to solicit sufficient participation have been unsuccessful.

Directions for delivery of the SVB Plan, SVBE Subcontractor Written Confirmation, and good faith effort documentation are included in Section 1-02.9.

~~1-02.6.OPT2.GR1~~

~~(November 9, 2020)~~

~~The Bidder shall submit with the Bid a completed Disadvantaged Business Enterprise (DBE) Utilization Certification, when required by the Special Provisions. For each and every DBE firm listed on the Bidder's completed Disadvantaged Business Enterprise Utilization Certification, the Bidder shall submit written confirmation from that DBE firm that the DBE is in agreement with the DBE participation commitment that the Bidder has made in the Bidder's completed Disadvantaged Business Enterprise Utilization Certification. WSDOT Form 422-031 (Disadvantaged Business Enterprise Written Confirmation Document) is to be used for this purpose. Bidder must submit good faith effort documentation only in the event the bidder's efforts to solicit sufficient DBE participation have been unsuccessful. The Bidder shall submit a DBE Bid Item Breakdown form defining the scope of work to be performed by each DBE listed on the DBE Utilization Certification. If the Bidder lists a DBE Trucking firm on the DBE Utilization Certification, then the Bidder must also submit a DBE Trucking Credit Form (WSDOT Form 272-058) documenting how the DBE Trucking firm will be able to perform the scope of work subcontracted to them. Directions for delivery of the Disadvantaged Business Enterprise Written Confirmation Documents, Disadvantaged Business Enterprise Good Faith Effort documentation, DBE Bid Item Breakdown Form and the DBE Trucking Credit Form are included in Section 1-02.9.~~

1-02.6.OPT3.GR1
(August 2, 2004)
The fifth and sixth paragraphs of Section 1-02.6 are deleted.

1-02.6.INST3.GR1
Section 1-02.6 is supplemented with the following:

1-02.6.OPT4.FR1

***(September 7, 2021)***

***Alternative Bids***

The bidding proposal on this project permits the Bidder to submit a Bid on one or more alternatives for the construction *** $$1$$ ***.

**Bid Proposal**

The bid proposal is composed of the following parts: Base Bid and Alternatives *** $$2$$ *** i.e. A1, A2, etc.

The <u>base bid</u> includes all items that do not change as to quantity, dimension, or type of construction, regardless of which alternative is Bid.

The <u>Alternative</u> portions of the bid proposal contain all items which change as to quantity, dimension, or construction method, depending on which alternative is Bid.

**Alternative A1**

Alternative A1 is based on constructing the *** $$3$$ ***.

The bid items for Alternative A1 are as listed in the bid proposal.

**Alternative A2**
Alternative A2 is based on constructing the *** $$4$$ ***.

The bid items for Alternative A2 are as listed in the bid proposal.

**Bidding Procedures**
The Bidder shall submit a price on each and every item of Work included in the base bid. The Bidder shall also submit prices on each and every item under the alternative on which the Bidder chooses to bid, or, if the Bidder chooses to bid on more than one alternative, the Bidder shall submit prices for each and every item under each alternative chosen. If the Bidder chooses to bid on more than one alternative, the Bidder shall submit their sealed Bid in the envelope provided by the Contracting Agency using the Proposal Form provided. If the Bidder chooses to Bid on more than one alternative, the Bid cannot be accepted electronically via AASHTOWare Project Bids™ "BidExpress®."

The successful Bidder will be determined by the lowest total of an alternative plus the base bid. Award will be based on the lowest total subject to the requirements of Section 1-03.

1-02.6.OPT5.FR1
***(August 3, 2015)***
***Cumulative Alternates Bidding***
The Bid Proposal for this Contract requires the Bidder to bid cumulative Alternates as part of the bid. As such the Bidder is required to submit a Base Bid and a bid for each of the Alternate(s).

**Bid Proposal**
The Bid Proposal includes the following:

1. Base Bid
   The Base Bid shall include constructing all items included in the Proposal *except* those items contained in the Alternate(s).

2. Alternate(s)

   a. Alternate A1
      Based on constructing (*** $$1$$ ***)
      The Bid items for Alternate A1 are as listed in the Bid Proposal.

   b. Alternate A2
      Based on constructing (*** $$2$$ ***)
      The Bid items for Alternate A2 are as listed in the Bid Proposal.

   c. Alternate A3
      Based on constructing (*** $$3$$ ***)
      The Bid items for Alternate A3 are as listed in the Bid Proposal.

**Bidding Procedures**
To be considered responsive the Bidder shall submit a price on each and every Bid item included in the Base Bid and all Alternate(s.)

The successful Bidder will be the Bidder submitting the lowest responsible Bid for the highest order Preference that is within the amount of available funds for the project. Available funds will be announced immediately prior to the opening of Bids. The following are listed in order from highest to lowest Preference:

1. Preference 1: Lowest total for Base Bid plus Alternate A1 plus Alternate A2 plus Alternate A3, plus etcetera.

2. Preference 2: Lowest total for Base Bid plus Alternate A1 plus Alternate A2 plus Alternate A3.

3. Preference 3: Lowest total for Base Bid plus Alternate A1 plus Alternate A2.

4. Preference 4: Lowest total for Base Bid plus Alternate A1.

5. Preference 5: Lowest total for Base Bid.

The Contracting Agency may, at their discretion, award a Contract for the Base Bid, without any additional Alternates, in the event that all Bids exceed the available funds announced. In any case, the award will be subject to the requirements of Section 1-03.

1-02.6.INST4.GR1
Item number 3 in the second paragraph of Section 1-02.6 is supplemented with the following:

1-02.6.OPT8.FR1
(September 3, 2019)
The successful Bidder will be the Bidder submitting the lowest responsive Bid that does not exceed the maximum funds available. The maximum funds available for this Contract is *** $$1$$ ***.

Submitting a Proposal that exceeds the maximum funds available will result in the Proposal being declared irregular and shall cause the Bid to be rejected by the Contracting Agency. Submitted Proposals that exceed the maximum funds available will be opened publicly in accordance with Section 1-02.12 prior to being rejected.

1-02.9.GR1
## Delivery of Proposal

1-02.9.INST1.GR1
Section 1-02.9 is supplemented with the following:

1-02.9.OPT1.GR1
***(September 7, 2021)***
***DBE Document Submittal Requirements***
When a Proposal is submitted the following documents may be submitted as a supplement to the Proposal:

1. DBE Utilization Certification (WSDOT Form 272-056);

2. DBE Written Confirmation Documents (WSDOT Form 422-031);

3. Good Faith Effort Documentation (GFE);

4. DBE Bid Item Breakdown (WSDOT Form 272-054);

5. DBE Trucking Credit Form (WSDOT Form 272-058).

The Bidder shall submit these supplemental documents as follows:

1. Physically in a sealed envelope marked as "BID SUPPLEMENT" and bearing the Bidder's company name, project title, Bid date, and description of all contents (i.e., DBE Utilization Certification, DBE Written Confirmation Documents, DBE Bid Item Breakdown Form, DBE Trucking Credit Form, and/or DBE GFE Documentation); or

2. By facsimile to the following FAX number: 360-705-6966; or

3. By e-mail to the following e-mail address: DBEDoc@wsdot.wa.gov

***DBE Utilization Certification***

The DBE Utilization Certification shall be received at the same location and no later than the time required for delivery of the Proposal. The Contracting Agency will not open or consider any Proposal when the DBE Utilization Certification is received after the time specified for receipt of Proposals or received in a location other than that specified for receipt of Proposals. The DBE Utilization Certification may be submitted in the same envelope as the Bid deposit.

**NOTE: If the Bid is submitted electronically via AASHTOWare Project Bids™ software, "BidExpress," the DBE Utilization Certification may be attached to the electronic bid or submitted as a supplemental document as defined above.**

***DBE Written Confirmation and/or GFE Documentation***

The DBE Written Confirmation Documents and/or GFE Documents are not required to be submitted with the Proposal. The DBE Written Confirmation Document(s) and/or GFE (if any) shall be received either with the Bid Proposal or as a Supplement to the Bid. The documents shall be received no later than 48 hours (not including Saturdays, Sundays and Holidays) after the time for delivery of the Proposal. To be considered responsive, Bidders shall submit Written Confirmation Documentation from each DBE firm listed on the Bidder's completed DBE Utilization Certification and/or the GFE as required by Section 1-02.6.

***DBE Bid Item Breakdown and DBE Trucking Credit Form***

The DBE Bid Item Breakdown and the DBE Trucking Credit Forms (if applicable), shall be received either with the Bid Proposal or as a Supplement to the Bid. The documents shall be received no later than 48 hours (not including Saturdays, Sundays and Holidays) after the time for delivery of the Proposal. To be considered responsive, Bidders shall submit a completed DBE Bid Item Breakdown and a DBE Trucking Credit Form for each DBE Trucking firm listed on the DBE Utilization Certification, however, minor errors and corrections to DBE Bid Item Breakdown or DBE Trucking Credit Forms will be returned for correction for a period up to five calendar days (not including Saturdays, Sundays and Holidays) after the time for delivery of the Proposal. A DBE Bid Item Breakdown or DBE Trucking Credit Forms that are still incorrect after the correction period will be determined to be non-responsive.

Although the DBE Bid Item Breakdown and DBE Trucking Credit Form are required as part of a responsive Bid Proposal, the information contained in these documents is used solely for Award purposes and will not be included as part of the executed Contract.

The only documents that can be accepted after the 11:00:59 am time for delivery of Proposal are the Written Confirmation Documentation, the DBE Bid Item Breakdown Form, the DBE Trucking Credit Form, and/or GFE. Incomplete or inaccurate documents will be rejected, except as detailed above for the DBE Bid Item Breakdown Form and DBE Trucking Credit Form. The Contracting Agency is not responsible for delayed, partial, failed, illegible or partially legible FAX or e-mail document transmissions, and such documents may be rejected as incomplete at the Bidder's risk.

1-02.9.OPT2.GR1

***(March 14, 2022)***

***SVBE Document Submittal Requirements***

**General**

The Bidder shall submit supplemental documents that are identified with the Bidder's company name, Project title, Bid date, and description of all contents (i.e., Small and Veteran-Owned Business Plan, SVBE Subcontractor Written Confirmation Documents, and/or SVBE GFE Documentation). Submissions must be made by one of the following methods:

1. Physically in a sealed envelope marked as "BID SUPPLEMENT"; or

2. By facsimile to the following FAX number: 360-705-6966; or

3. By e-mail to the following e-mail address: DBEDoc@wsdot.wa.gov; or

4. Mailed to: Washington State Department of Transportation
   Room 2D20
   310 Maple Park Avenue SE
   Olympia WA 98501-2361

**Small and Veteran-Owned Business Plan (SVB Plan) (WSDOT Form 226-018)**

The SVBE Plan shall be received no later than the time required for delivery of the Bid. The Contracting Agency will not open or consider any Bid when the SVBE Plan is received after the time specified for receipt of Bids or received as specified by this Special Provision. The SVBE Plan may be submitted in the same envelope as the Bid deposit.

**SVBE Subcontractor Written Confirmation (WSDOT Form 226-017) and/or GFE Documentation**

The SVBE Subcontractor Written Confirmation Documents and/or GFE Documents are not required to be submitted with the Bid. The SVBE Subcontractor Written Confirmation Document(s) and/or GFE (if any) shall be received either with the Bid or as a Supplement to the Bid. The documents shall be received no later than 48 hours (not including Saturdays, Sundays, and Holidays) after the time for delivery of the Bid. To be considered responsive, Bidders shall submit Written Confirmation Documentation from each SVBE firm listed on the Bidder's completed SVB Plan and/or the GFE as required by Section 1-02.6.

The Contracting Agency is not responsible for delayed, partial, failed, illegible or partially legible FAX or e-mail document transmissions, and such documents may be rejected as incomplete at the Bidder's risk.

**NOTE: If the Bid is submitted electronically via AASHTOWare Project Bids™ software "BidExpress®", the SVB Plan may be attached to the electronic Bid or submitted as a supplemental document as defined above.**

1-02.12.GR1

## Public Opening of Proposals

1-02.12.INST1.GR1

Section 1-02.12 is supplemented with the following:

1-02.12.OPT1.FR1

***(August 3, 2015)***

***Date of Opening Bids***

The bid opening date for this project is *** $$1$$ ***. Bids received will be publicly opened and read after 11:00:59 A. M. Pacific Time on this date.

1-02.12.OPT2.FR1

***(October 3, 2022)***

***Date of Opening Bids***

Proposals will be received by in-person delivery or by courier at the *** $$1$$ *** reception desk located at the *** $$2$$ *** on the Bid opening day.

The Bid opening date for this project is *** $$3$$ ***. Bids received will be publicly opened and read after 11:00:59 A.M. on this date.

1-02.INST1.GR1

Section 1-02 is supplemented with the following:

1-02.OPT1.GR1

**(September 7, 2021)**

***Protest Procedures***

**Form and Substance**

All protests regarding any contents or portion of the bid proposal must be submitted to the Contracting Agency as soon as possible after the protestant becomes aware of the reason(s) for the protest. All protests must be in writing and signed by the protestant or an authorized agent. Such writing must state all facts and arguments on which the protestant is relying as the basis for its action. Such protestant shall also attach, or supply on demand by the Contracting Agency, any relevant exhibits referenced in the writing. Copies of all protests and exhibits shall be submitted by the protestant to the Bidder against whom the protest is made (if any) at the same time such protest and exhibits are submitted to the Contracting Agency. All protests shall be emailed to CAA@wsdot.wa.gov.

**Pre-award Protests**

To allow sufficient response time, all pre-award protests must be received by the Contracting Agency no later than 5:00 p.m. of the second business day after the bid opening date. If the protest is mailed after the bid opening date and before the pre-award protest deadline, the protestant shall immediately notify WSDOT's Manager,

Contract Ad & Award by telephone, or some other means of rapid communication, that a protest has been made.

The Contracting Agency shall consider all the facts available to the protest, and issue a decision in writing within five (5) business days after receipt of the protest, unless, in the Contracting Agency's sole discretion, more time is needed. The protestant and the Bidder(s) against whom the protest is made will be notified if additional time is necessary; and if the additional time required affects the bid opening date or the award date, all bidders shall be notified.

The Contracting Agency's decision shall be final and conclusive. Selection of the successful Bidder, if one is to be made, will be postponed until after the Contracting Agency has issued its decision. The Contracting Agency shall provide the protestant with written notice of this decision no later than two full working days prior to execution of the contract.

**Post-award Protests**

The Contracting Agency shall immediately notify all unsuccessful Bidders of the Contracting Agency's award decision. Any decision made by the Contracting Agency regarding the award and execution of the contract or bid rejection shall be conclusive subject to the scope of the judicial review permitted under Washington Law. Such review, if any, shall be timely filed in the Superior Court of Thurston County, Washington.

Protests which do not comply with the above-specified procedures will not be considered.

1-03.GR1

## Award and Execution of Contract

1-03.2.GR1

## Award of Contract

1-03.2.INST1.GR1

The first sentence of Section 1-03.2 is revised to read:

1-03.2.OPT1.GR1

(April 7, 2008)

It is the Contracting Agency's intent to award the Contract within 24 hours of the bid opening.

1-03.3.GR1

## Execution Of Contract

1-03.3.INST1.GR1

Section 1-03.3 is supplemented with the following:

1-03.3.OPT1.GR1

***(~~September 7, 2021~~October 3, 2022)***

***Escrow Bid Documentation***

**Scope and Purpose**

The purpose of this specification is to preserve the Contractor's bid documentation for use by the Contracting Agency in any litigation between the Contracting Agency and Contractor arising out of this Contract.

The Contractor shall submit a legible copy of all documentation used to prepare the Bid for this Contract to a escrow institution designated by the Contracting Agency. Such documentation shall be placed in escrow with the escrow institution and preserved by that institution as specified in the following sections of this specification.

**Bid Documentation**

The term "bid documentation" as used in this specification means any writings, working papers, computer printouts, charts, and any other data compilations which contain or reflect all information, data, and calculations used by the Contractor to determine the Bid in bidding for this project. The Contractor shall submit its documentation in whatever format it was created and shall also provide electronic copies. The term "bid documentation" includes but is not limited to Contractor equipment rates, Contractor overhead rates, labor rates, efficiency or productivity factors, arithmetic extensions, and quotations from ~~S~~subcontractors and material providers to the extent that such rates and quotations were used by the Contractor in formulating and determining the amount of the bid. The term "bid documentation" also includes any manuals which are standard to the industry used by the Contractor in determining the bid for this project. Such manuals (including year of publication) may be included in the Bid Documentation by reference. The term does not include bid documents provided by the Contracting Agency for use by the Contractor in bidding on this project.

**Submittal of Bid Documentation**

The Contractor shall submit the bid documentation to the escrow institution. The bid documentation shall be submitted to the escrow institution within seven calendar days after the Contract for this project has been executed by the Contracting Agency. The bid documentation shall be submitted in a sealed container. The container shall be clearly marked "Bid Documentation" and shall also show on the face of the container the Contractor's name, the date of submittal, the project title, and the contract number.

**Affidavit**

The sealed container shall contain, in addition to the bid documentation, an affidavit signed under oath by an individual authorized by the Contractor to execute bidding proposals. The affidavit shall list each bid document with sufficient specificity so a comparison can be made between the list and the bid documentation to ensure that all of the bid documentation listed in the affidavit has been enclosed in the sealed container. The affidavit shall show that the affiant has personally examined the bid documentation and that the affidavit lists all of the documents used by the Contractor to determine the Bid for this project and that all such bid documentation has been enclosed in the sealed container.

**Verification**

The escrow institution upon receipt of the sealed container shall place the container in a safety deposit box, vault, or other secure place, and immediately notify the Contracting Agency in writing that the container has been received. Upon receipt of such notice, the Contracting Agency will promptly notify the Contractor in writing that the Contracting Agency will open the sealed container to verify that the affidavit has been enclosed and to compare the bid documents listed in the affidavit with the bid documents enclosed in the container to ensure that all of the bid documentation has been submitted and that the copies are legible. The notification will advise the Contractor of the date and time the container will be opened and the name of the Contracting Agency employee who will verify the contents of the container. The Contracting Agency employee verifying the contents of the escrow container will not be involved or connected with the review, evaluation, or resolution of any claim by the Contractor made to the Contracting Agency in connection with the contract for which the verification was made. The Contractor may have representatives present at the opening.

**Supplementation**

Documents listed in the affidavit but not enclosed in the sealed container through error or oversight shall be submitted in a sealed container within five calendar days after the opening of the original container. Also, any bid documentation that is illegible shall be replaced with legible copies and furnished within five calendar days after the opening of the original container. The face of the container shall show the same information as the original container except the container shall be marked "Supplemental Bid Documentation". The same procedure used in verifying the contents of the original container shall be used in verifying the contents of the supplemental submittal.

**Duration and Use**

The bid documentation and affidavit shall remain in escrow during the life of the Contract and will be returned to the Contractor by the escrow institution, provided that the Contractor has signed the final contract voucher certification and has not

reserved any claims on the final contract voucher certification against the Contracting Agency arising out of the Contract. In the event that claims against the Contracting Agency are reserved on the final contract voucher certification, the bid documentation and affidavit shall remain in escrow. If the claims are not resolved and litigation ensues, the Contracting Agency may serve a request upon the Contractor to authorize the escrow institution, in writing, to release the bid documentation and affidavit in escrow to the Contracting Agency. The Contractor shall respond to the request within 20 days after service of the request. If the Contractor objects or does not respond to the request within 20 days after service of the request, the Contracting Agency may file a motion under the Civil Rules requesting the court to enter an order directing the escrow institution to deliver the bid documentation and affidavit in escrow to the Contracting Agency. The Contractor shall respond to the request within the time required by the then applicable Civil Court Rules for the Superior Court of the State of Washington. If the Contractor objects or does not respond to the request within the time required by the then applicable Civil Rules, the Contracting Agency may file a motion pursuant to such rules requesting the court to enter an order directing the escrow institution to deliver the bid documentation and affidavit in escrow to the Contracting Agency. The escrow institution shall release the bid documentation and affidavit as follows:

1. To the Contracting Agency upon receipt of a letter from the Contractor authorizing the release;

2. To the Contracting Agency upon receipt of a certified copy of a court order directing the release of the documents;

3. To the court for an <u>in camera</u> examination pursuant to a certified copy of a court order;

4. The bid documentation and affidavit shall be returned to the Contractor if litigation is not commenced within the time period prescribed by law.

The Contractor agrees that the sealed container placed in escrow and any supplemental sealed container placed in escrow contain all of the bid documentation used to determine the Bid and that no other bid documentation shall be utilized by the Contractor in litigation over Certified Claims brought by the Contractor arising out of this Contract unless otherwise ordered by the court.

**Remedies for Refusal or Failure to Provide Bid Documentation**

Failure or refusal to provide bid documentation shall be deemed a material breach of this Contract. The Contracting Agency may at its option refuse to make payment for progress estimates under Section 1-09.9 until the Contractor has submitted the bid documentation required by this specification. The Contracting Agency may at its option terminate the contract for default under Section 1-08.10. These remedies are not exclusive and the Contracting Agency may take such other action as is available to it under the law.

**Confidentiality of Bid Documentation**

The bid documentation and affidavit in escrow are and will remain the property of the Contractor. The Contracting Agency has no interest in or right to the bid documentation and affidavit other than to verify the contents and legibility of the bid documentation unless litigation ensues between the Contracting Agency and

Contractor over Certified Claims brought by the Contractor arising out of this Contract. In the event of such litigation, the bid documentation and affidavit may become the property of the Contracting Agency for use in the litigation as may be appropriate subject to the provisions of any court order limiting or restricting the use or dissemination of the bid documentation and affidavit as provided in the preceding section entitled Duration and Use.

**Cost and Escrow Instructions**

The cost of the escrow will be borne by the Contracting Agency. The Contracting Agency will provide escrow instructions to the escrow institution consistent with this specification.

1-03.3.INST2.GR1

The first paragraph of Section 1-03.3 is supplemented with the following:

1-03.3.OPT3.GR1

(January 4, 2016)

Within 20 calendar days after the Award date, the successful Bidder shall return WSDOT Form 421-013 with the Contractor's costs for transit, bicycle and pedestrian Work.

1-05.GR1

## Control of Work

1-05.3.GR1

## Working Drawings

1-05.3.INST1.GR1

Section 1-05.3 is supplemented with the following:

1-05.3.OPT1.FR1

(September 3, 2019)

When submittals require review by the railroad, the Engineer will require up to *** $$1$$ *** calendar days from the date the submittals are received until they are returned to the Contractor. If a submittal is returned unapproved and then resubmitted, then an additional review time of up to *** $$2$$ *** calendar days will be required.

If more than *** $$1$$ *** calendar days are required for the Engineer's review of any individual submittal or resubmittal, an extension of time will be considered in accordance with Section 1-08.8.

1-05.3.OPT2.GR1

***(October 3, 2022)***

***Right and Left Designation***

Any right or left designations used to locate Structures throughout the Plans and these Special Provisions are made by facing offshore.

1-05.3.OPT3.GR1

***(October 3, 2022)***

***Work Plan***

The Contractor shall submit a Work Plan to the Engineer for review. The Work Plan shall include the following minimum requirements:

1. The Work Plan shall describe the Contractor's proposed methods for accomplishing the Work within the conditions and restrictions of the Contract. It shall describe the nature, approach and sequence of the Work to be performed; the type and location of cranes, barges and other equipment to be used; plans for demolition, debris control and disposal of materials; temporary construction; compliance with environmental provisions; and any unavoidable impacts, necessary safeguards, and mitigating measures.

2. Where the Contractor's Work would impact the operation and safety of ferry traffic and ferry pedestrian areas, the Work Plan shall detail the methods used to either separate the Work from the ferry traffic or to maintain the area in a safe condition while it is being utilized by ferry passengers.

3. The Work Plan shall be a Type 2 Working Drawing with attached drawings, charts, diagrams and references to the Plans and Progress Schedule as necessary.

4. The Work Plan shall be updated whenever conditions change or as directed by the Engineer.

All costs associated with the Work Plan shall be included in the applicable items of Work.

1-05.4.GR1

## Conformity With And Deviations From Plans And Stakes

1-05.4.INST1.GR1

Section 1-05.4 is supplemented with the following:

1-05.4.OPT1.GR1

***(~~January 13, 2021~~October 3, 2022)***

***Contractor Surveying - Structure***

The Contracting Agency has provided primary survey control in the Plans.

The Contractor shall be responsible for setting, maintaining, and resetting all alignment stakes, slope stakes, and grades necessary for the construction of bridges, noise walls, ~~and~~ retaining walls, and buried structures. Except for the survey control data to be furnished by the Contracting Agency, calculations, surveying, and measuring required for setting and maintaining the necessary lines and grades shall be the Contractor's responsibility.

The Contractor shall inform the Engineer when monuments are discovered that were not identified in the Plans and construction activity may disturb or damage the monuments. All monuments noted on the plans “DO NOT DISTURB” shall be protected throughout the length of the project or be replaced at the Contractors expense.

Detailed survey records shall be maintained, including a description of the work performed on each shift, the methods utilized, and the control points used. The record shall be adequate to allow the survey to be reproduced. A copy of each day's record shall be provided to the Engineer within three working days after the end of the shift.

The meaning of words and terms used in this provision shall be as listed in "Definitions of Surveying and Associated Terms" current edition, published by the American Congress on Surveying and Mapping and the American Society of Civil Engineers.

The survey work by the Contractor shall include but not be limited to the following:

1. Verify the primary horizontal and vertical control furnished by the Contracting Agency~~,~~ and expand into secondary control by adding stakes and hubs as well as additional survey control needed for the project. Provide descriptions of secondary control to the Contracting Agency. The description shall include coordinates and elevations of all secondary control points.

2. Establish, by placing hubs and/or marked stakes, the location with offsets of foundation shafts and piles.

3. Establish offsets to footing centerline of bearing for structure excavation.

4. Establish offsets to footing centerline of bearing for footing forms.

5. Establish wing wall, retaining wall, ~~and~~ noise wall, and buried structure horizontal alignment.

6. Establish retaining wall top of wall profile grade.

7. Establish buried structure profile grade.

~~7~~8. Establish elevation benchmarks for all substructure formwork.

~~8~~9. Check elevations at top of footing concrete line inside footing formwork immediately prior to concrete placement.

~~9~~10. Check column location and pier centerline of bearing at top of footing immediately prior to concrete placement.

~~10~~11. Establish location and plumbness of column forms, and monitor column plumbness during concrete placement.

~~11~~12. Establish pier cap and crossbeam top and bottom elevations and centerline of bearing.

~~12~~13. Check pier cap and crossbeam top and bottom elevations and centerline of bearing prior to and during concrete placement.

~~13~~14. Establish grout pad locations and elevations.

~~14~~15. Establish structure bearing locations and elevations, including locations of anchor bolt assemblies.

~~15~~16. Establish box girder bottom slab grades and locations.

~~16~~17. Establish girder and/or web wall profiles and locations.

~~17~~18. Establish diaphragm locations and centerline of bearing.

~~18~~19. Establish roadway slab alignment, grades and provide dimensions from top of girder to top of roadway slab. Set elevations for deck paving machine rails.

~~19~~20. Establish traffic barrier and curb profile.

~~20~~21. Profile all girders prior to the placement of any deadload or construction live load that may affect the girder's profile.

The Contractor shall provide the Contracting Agency copies of any calculations and staking data when requested by the Engineer.

The Contractor shall submit the computed elevations at the top of bridge decks as a Type 2 Working Drawing. The elevations shall be computed at tenth points along the centerline of each girder web.

The Contractor shall ensure a surveying accuracy within the following tolerances:

| | Vertical | Horizontal |
|---|---|---|
| 1. Stationing on structures | | ±0.02 feet |
| 2. Alignment on structures | | ±0.02 feet |
| 3. Superstructure elevations | ±0.01 feet variation from plan elevation | |
| 4. Substructure | ±0.02 feet variation from Plan grades. | |

Buried structures shall be within the tolerances described in Section 6-20.3.

The Contracting Agency may spot-check the Contractor's surveying. These spot-checks will not change the requirements for normal checking by the Contractor.

When staking the following items, the Contractor shall perform independent checks from different secondary control to ensure that the points staked for these items are within the specified survey accuracy tolerances:

Piles
Shafts
Footings
Columns

The Contractor shall calculate coordinates for the points associated with piles, shafts, footings and columns. The Contracting Agency will verify these coordinates prior to issuing approval to the Contractor for commencing with the survey work. The Contracting Agency will require up to seven calendar days from the date the data is received to issuing approval.

Contract work to be performed using contractor-provided stakes shall not begin until the stakes are approved by the Contracting Agency. Such approval shall not relieve the Contractor of responsibility for the accuracy of the stakes.

### *Payment*

Payment will be made for the following bid item when included in the proposal:

"Structure Surveying", lump sum.

The lump sum contract price for "Structure Surveying" shall be full pay for all labor, equipment, materials, and supervision utilized to perform the Work specified, including any resurveying, checking, correction of errors, replacement of missing or damaged stakes, and coordination efforts.

1-05.4.OPT2.GR1

***(January 13, 2021)***

***Contractor Surveying - Roadway***

The Contracting Agency has provided primary survey control in the Plans.

The Contractor shall be responsible for setting, maintaining, and resetting all alignment stakes, slope stakes, and grades necessary for the construction of the roadbed, drainage, surfacing, paving, channelization and pavement marking, illumination and signals, guardrails and barriers, and signing. Except for the survey control data to be furnished by the Contracting Agency, calculations, surveying, and measuring required for setting and maintaining the necessary lines and grades shall be the Contractor's responsibility.

The Contractor shall inform the Engineer when monuments are discovered that were not identified in the Plans and construction activity may disturb or damage the monuments. All monuments noted on the plans “DO NOT DISTURB” shall be protected throughout the length of the project or be replaced at the Contractors expense.

Detailed survey records shall be maintained, including a description of the work performed on each shift, the methods utilized, and the control points used. The record shall be adequate to allow the survey to be reproduced. A copy of each day's record shall be provided to the Engineer within three working days after the end of the shift.

The meaning of words and terms used in this provision shall be as listed in "Definitions of Surveying and Associated Terms" current edition, published by the American Congress on Surveying and Mapping and the American Society of Civil Engineers.

The survey work shall include but not be limited to the following:

1. Verify the primary horizontal and vertical control furnished by the Contracting Agency, and expand into secondary control by adding stakes and hubs as well as additional survey control needed for the project. Provide descriptions of secondary control to the Contracting Agency. The description shall include coordinates and elevations of all secondary control points.

2. Establish, the centerlines of all alignments, by placing hubs, stakes, or marks on centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and at points on the alignments spaced no further than 50 feet.

3. Establish clearing limits, placing stakes at all angle points and at intermediate points not more than 50 feet apart. The clearing and grubbing limits shall be 5 feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise shown in the Plans.

4. Establish grading limits, placing slope stakes at centerline increments not more than 50 feet apart. Establish offset reference to all slope stakes. If Global Positioning Satellite (GPS) Machine Controls are used to provide grade control, then slope stakes may be omitted at the discretion of the Contractor

5. Establish the horizontal and vertical location of all drainage features, placing offset stakes to all drainage structures and to pipes at a horizontal interval not greater than 25 feet.

6. Establish roadbed and surfacing elevations by placing stakes at the top of subgrade and at the top of each course of surfacing. Subgrade and surfacing stakes shall be set at horizontal intervals not greater than 50 feet in tangent sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-foot intervals in intersection radii with a radius less than 10 feet. Transversely, stakes shall be placed at all locations where the roadway slope changes and at additional points such that the transverse spacing of stakes is not more than 12 feet. If GPS Machine Controls are used to provide grade control, then roadbed and surfacing stakes may be omitted at the discretion of the Contractor.

7. Establish intermediate elevation benchmarks as needed to check work throughout the project.

8. Provide references for paving pins at 25-foot intervals or provide simultaneous surveying to establish location and elevation of paving pins as they are being placed.

9. For all other types of construction included in this provision, (including but not limited to channelization and pavement marking, illumination and signals, guardrails and barriers, and signing) provide staking and layout as necessary to adequately locate, construct, and check the specific construction activity.

10. Contractor shall determine if changes are needed to the profiles or roadway sections shown in the Contract Plans in order to achieve proper smoothness and drainage where matching into existing features, such as a smooth transition from new pavement to existing pavement. The Contractor shall submit these changes to the Engineer for review and approval 10 days prior to the beginning of work.

The Contractor shall provide the Contracting Agency copies of any calculations and staking data when requested by the Engineer.

The Contractor shall ensure a surveying accuracy within the following tolerances:

| | Vertical | Horizontal |
|---|---|---|
| Slope stakes | ±0.10 feet | ±0.10 feet |
| Subgrade grade stakes set 0.04 feet below grade | ±0.01 feet | ±0.5 feet (parallel to alignment)<br>±0.1 feet (normal to alignment) |

| | | |
|---|---|---|
| Stationing on roadway | N/A | ±0.1 feet |
| Alignment on roadway | N/A | ±0.04 feet |
| Surfacing grade stakes | ±0.01 feet | ±0.5 feet<br>(parallel to alignment)<br>±0.1 feet<br>(normal to alignment) |
| Roadway paving pins for surfacing or paving | ±0.01 feet | ±0.2 feet<br>(parallel to alignment)<br>±0.1 feet<br>(normal to alignment) |

The Contracting Agency may spot-check the Contractor's surveying. These spot-checks will not change the requirements for normal checking by the Contractor.

When staking roadway alignment and stationing, the Contractor shall perform independent checks from different secondary control to ensure that the points staked are within the specified survey accuracy tolerances.

The Contractor shall calculate coordinates for the alignment. The Contracting Agency will verify these coordinates prior to issuing approval to the Contractor for commencing with the work. The Contracting Agency will require up to seven calendar days from the date the data is received.

Contract work to be performed using contractor-provided stakes shall not begin until the stakes are approved by the Contracting Agency. Such approval shall not relieve the Contractor of responsibility for the accuracy of the stakes.

Stakes shall be marked in accordance with Standard Plan A10.10. When stakes are needed that are not described in the Plans, then those stakes shall be marked, at no additional cost to the Contracting Agency as ordered by the Engineer.

### *Payment*

Payment will be made for the following bid item when included in the proposal:

"Roadway Surveying", lump sum.

The lump sum contract price for "Roadway Surveying" shall be full pay for all labor, equipment, materials, and supervision utilized to perform the Work specified, including any resurveying, checking, correction of errors, replacement of missing or damaged stakes, and coordination efforts.

1-05.4.OPT3.GR1

***(April 4, 2011)***

### *Licensed Surveyors*

The Contractor shall be responsible for reestablishing or locating legal survey markers such as GLO monuments or property corner monuments, conduct boundary surveys to determine Contracting Agency right-of-way locations, and obtain, review and analyze

deeds and records as necessary to determine these boundaries. The Contracting Agency will provide “rights of entry” as needed by the Contractor to perform the work.

The Contractor shall brush out or clear and stake or mark the right-of-way lines as designated by the Engineer.

The Contractor shall inform the Engineer when monuments are discovered that were not identified in the Plans and construction activity may disturb or damage the monuments. All monuments noted on the plans “DO NOT DISTURB” shall be protected throughout the length of the project or be replaced at Contractors expense.

When required, the Contractor shall prepare and file a Record of Survey map in accordance with RCW 58.09 and provide a recorded copy to the Contracting Agency. The Contracting Agency will provide all existing base maps, existing horizontal and vertical control, and other material available with Washington State Plane Coordinate information to the Contractor. The Contracting Agency will also provide maps, plan sheets, and/or aerial photographs clearly identifying the limits of the areas to be surveyed. The Contractor shall establish Washington State Plane Coordinates on all points required in the Record of Survey and other points designated in the Contract documents.

Existing right of way documentation, existing base maps, existing horizontal and vertical control descriptions, maps, plan sheets, aerial photographs and all other available material may be viewed by prospective bidders at the office of the Engineer.

The Contractor shall perform all of the necessary calculations for the contracted survey work and shall provide copies of these calculations to the Contracting Agency. Electronic files of all survey data shall be provided and in a format acceptable to the Contracting Agency.

All survey work performed by the Contractor shall conform to all applicable sections of the Revised Code of Washington and the Washington Administrative Code.

The Contractor shall provide all traffic control, signing, and temporary traffic control devices in order to provide a safe work zone.

### *Payment*

Payment will be made in accordance with Section 1-09.6 for the following bid item when included in the proposal:

> “Licensed Surveying”, Force Account.
> For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "Licensed Surveying" in the bid proposal to become a part of the total bid by the Contractor.

1-05.4.OPT4.GR1

***(April 2, 2018)***

***Contractor Surveying – ADA Features***

**ADA Feature Staking Requirements**

The Contractor shall be responsible for setting, maintaining, and resetting all alignment stakes, and grades necessary for the construction of the ADA features. Calculations, surveying, and measuring required for setting and maintaining the necessary lines and grades shall be the Contractor's responsibility. The Contractor shall build the ADA features within the specifications in the Standard Plans and contract documents.

**ADA Feature As-Built Measurements**

The Contractor shall be responsible for providing electronic As-Built records of all ADA feature improvements completed in the Contract.

The survey work shall include but not be limited to completing the measurements, recording the required measurements and completing other data fill-ins found on the ADA Measurement Forms, and transmitting the electronic Forms to the Engineer. The ADA Measurement Forms are found at the following website location:

https://wsdot.wa.gov/engineering-standards/design-topics/design-ada

In the instance where an ADA Feature does not meet accessibility requirements, all work to replace non-conforming work and then to measure, record the as-built measurements, and transmit the electronic Forms to the Engineer shall be completed at no additional cost to the Contracting Agency, as ordered by the Engineer.

***Payment***

Payment will be made for the following bid item that is included in the Proposal:

"ADA Features Surveying", lump sum.

The unit Contract price per lump sum for "ADA Features Surveying" shall be full pay for all the Work as specified.

1-05.9.GR1

## Equipment

1-05.9.INST1.GR1

Section 1-05.9 is supplemented with the following:

1-05.9.OPT1.FR1

***(April 7, 2008)***

***General***

This specification contains requirements for the use of machine control grading.

Instead of providing grade control through construction stakes, the Contractor may control grade with equipment that is controlled by a machine control system.

The Contractor may use any type of equipment and machine control system that produces results meeting the requirements of the Contract.

Electronic data is provided for the Contractor's convenience, and is not a part of the Contract. No guarantee or warranty is made by the Contracting Agency that electronic data provided to the Contractor: is compatible with any of the systems that are used by the Contractor; is complete; is representative of actual conditions at the project site, or; accurately reflects the quantities and character of the actual Work required. The furnishing of electronic design data or documentation shall not relieve the Contractor from any risks or of any duty to make examinations and investigations as required by Section 1-02.4 or any other responsibility under the Contract or as required by law. Except as provided above, no corrections, additions, or updates of any kind will be made to electronic data provided to the Contractor.

The Engineer may perform spot checks of the Contractor's machine control grading results, calculations, records, field procedures, and quality control measures. If the Engineer determines that the Work being performed is not achieving results that will meet the Contract requirements, the Contractor shall make corrections to the Work at no additional cost to the Contracting Agency.

### *WSDOT Responsibilities*

1. The Engineer will set the initial horizontal and vertical control points for the project as shown in the Contract documents.

2. The Engineer will provide additional datum and scale factor information upon request.

3. After execution of the Contract, the Engineer will make available upon written request the following electronic data used to design the project:

   *** $$1$$ ***

   Data may be obtained by furnishing a written request to the Engineer at the following address:

   *** $$2$$ ***

### *Contractor's Responsibilities*

1. The Contractor shall provide any information or data that is requested by the Contracting Agency for the purpose of performing the verification of quantities, and quality.

2. The Contractor shall be responsible for any edits or conversions of the Contracting Agencies electronic data whether done by the Contractor or a vendor that is hired by the Contractor to perform such edits or conversions.

3. The Contractor shall be responsible for the accuracy and usability of any data or model that is developed from the Contracting Agencies data.

4. The Contractor shall be responsible for checking and recalibrating Machine Control Equipment as required to achieve results that meet the requirements of the Contract.

5. The Contractor shall be responsible for establishing any additional control points needed to achieve results that meet the requirements of the Contract.

6. The Contractor shall provide the Contracting Agency electronic as-built construction data for the final Roadway surface model in a MicroStation format.

7. One week prior to the start of grading operations the Contractor shall meet with the Engineers staff to review the grading plans, quality processes, and tolerance requirements.

***Payment***

All costs associated with the use of machine control grading equipment are incidental to related items of Work, and no additional payment will be provided.

1-05.9.OPT2.FR1

(April 2, 2018)

The Contractor may begin Work below the Ordinary High Water Line on *** $$1$$ *** and must complete all the Work by *** $$2$$ ***. The Contracting Agency suspects that *** $$3$$ ***, a Class A noxious weed, exists within the project boundary. In order to prevent the spread of this invasive species, the Contractor shall *** $$4$$ *** before removing equipment from the project site.

1-05.9.OPT3.FR1

(April 2, 2018)

The Contracting Agency suspects that *** $$1$$ ***, an aquatic invasive species, exists within the project boundary. In order to prevent the spread of this invasive species, the Contractor shall *** $$2$$ *** before removing equipment or temporary materials from the project site that was used directly below the Ordinary High Water Line.

1-05.14.GR1

## Cooperation With Other Contractors

1-05.14.INST1.GR1

Section 1-05.14 is supplemented with the following:

1-05.14.OPT1.FR1

***(March 13, 1995)***

***Other Contracts Or Other Work***

It is anticipated that the following work adjacent to or within the limits of this project will be performed by others during the course of this project and will require coordination of the work:

*** $$1$$ ***

1-05.14.OPT2.FR1

(March 13, 1995)

The Contractor on this project shall provide sufficient room within the right of way for a two-way haul road past the Contractor's operations for use of the *** $$1$$ *** Contractor.

1

1-07.GR1

# Legal Relations and Responsibilities to the Public

1-07.1.GR1

## Laws to be Observed

1-07.1.INST1.GR1

Section 1-07.1 is supplemented with the following:

1-07.1.OPT1.GR1

***(October 3, 2022)***

***Ferry Tolls and Service***

No gratuity of tolls or special service will be granted to the Contractor. Contractor use of ferry service shall be in accordance with the published rates, tolls, and schedules for the general public.

1-07.1.OPT2.GR1

***(October 3, 2022)***

***Ferry Terminal Access and Security***

The Contractor shall comply with the following access and security requirements when performing the Work.

***Contractor Employee Identification Lists***

The Contractor shall submit to the Engineer a list of all personnel who will be working on WSF property or within 300 feet of the WSF marine structures. This list shall contain the Contract number, WSF property, contract description, date site work begins, company name, main office phone number, contact person(s), contact phone number(s), on site personnel employees' names and photo ID numbers.

***Contractor Employee I.D. Cards***

Contractor employees shall present photo identification to WSF Terminal personnel every time they seek entry onto WSF property for the purpose of performing work or providing services. The same Contractor employee shall be listed on the Contractor Employee Identification List as submitted. The photo ID shall:

- Contain the full name of the individual.
- Contain a photograph clearly depicting the person's current facial features. (Driver's license is not acceptable.)
- Contain the name of the issuing Contractor organization.
- Shall be laminated or constructed of material so as to be tamper resistant.
- Shall bear a photo ID number issued by the issuing Contractor's organization.

Employees shall wear their photo ID in a visible location at all times while on WSF properties or working area.

### *Contractor Parking Pass*

If parking is allowed in the Contract, the Contractor will be issued a disposable parking pass that allows the vehicle to be parked at a designated location at the terminal on the day of issue and for the period during which services are provided. A pass shall be obtained each day the Contractor's vehicle enters the facility. Any vehicle not displaying a parking pass is subject to being towed at the owner's risk and expense. All vehicles entering WSF facilities are subject to security screening and inspection by Washington State Patrol (WSP) personnel.

### *Restricted Areas and Employee Areas*

All areas on WSF terminals and vessels that are not considered public access areas will be designated with conspicuous signs as **"Restricted Areas"** or **"Employee Only Areas"**. Areas will be locked, barricaded, or otherwise physically delineated as needed. Contractor employees who need to enter restricted or employee areas shall obtain permission/direction from WSF personnel. **"Restricted Areas"** require that one person for every five people be in possession of Transportation Workers Identification Card (TWIC) issued by the Transportation Security Administration as required under the Maritime Transportation Security Act. If the Contractor's work will involve extended amounts of time in these areas, they will be required to have personnel with TWIC identification. An unauthorized person in a restricted area constitutes a reportable "Breach of Security" that will be reported by the Contracting Agency to the U.S. Coast Guard National Response Center in Washington, D.C.

> Note: **"Restricted Areas"** are Terminal Supervisor's office, security communication rooms, vehicle slips and overhead loading when security gate is closed and vessel is tied up.

Access to the vessel when the traffic arm is down is allowed only with permission from WSF personnel.

### *Material Delivery*

Material deliveries to WSF property shall be pre-arranged with the Engineer.

### *Equipment Identification*

Contractor's derricks, skiffs, and trailers shall be clearly identified with the company's name or logo. At the end of the work shift, all equipment and construction materials shall be picked up and secured in a way that readily identifies the material as belonging to the Contractor.

### *Payment*

All costs associated with conforming to terminal ferry access security requirements shall be included in the unit Contract prices for the associated items of Work.

1-07.1.OPT3.FR1

***(April 3, 2006)***

### *Confined Space*

Confined spaces are known to exist at the following locations:

> *** $$1$$ ***

The Contractor shall be fully responsible for the safety and health of all on-site workers and compliant with Washington Administrative Code (WAC 296-809).

The Contractor shall prepare and implement a confined space program for each of the confined spaces identified above. The Contractors Confined Space program shall be sent to the Contracting Agency at least 30 days prior to the Contractor beginning work in or adjacent to the confined space. No work shall be performed in or adjacent to the confined space until the plan is submitted to the Engineer as required. The Contractor shall communicate with the Engineer to ensure a coordinated effort for providing and maintaining a safe worksite for both the Contracting Agency's and Contractor's workers when working in or near a confined space.

All costs to prepare and implement the confined space program shall be included in the bid prices for the various items associated with the confined space work.

1-07.1.OPT4.FR1

***(October 3, 2022)***

***Noise Exemption/Variance Conditions***

The jurisdiction(s) listed below has granted a nighttime noise exemption and/or variance to its respective noise control code and WAC 173-60 to allow Contracting Agency representatives to perform nighttime Work under the conditions as listed below.

| Jurisdiction | Nights | Expiration Date |
|---|---|---|
| *** $$1$$ *** | *** $$2$$*** | *** $$3$$ *** |

This exemption/variance allows the Contractor to exceed the local noise ordinance levels. All nighttime Work activities require approved noise exemptions or variances from the listed jurisdiction(s) including nighttime Work within the Contracting Agency's Right-of-Way.

The Contractor shall perform the following measures to minimize construction noise:

1. All trucks performing export haul shall have well maintained bed liners as inspected and accepted by the Engineer.

2. Truck tailgate banging is prohibited. All truck tailgates shall be secured to prevent excessive noise from banging.

3. A copy of the noise exemption and/or variance shall be kept on the project site at all times.

4. The Contractor shall mail Nighttime Work Mail Notifications to residents located within *** $$4$$ *** feet of Contracting Agency Right-of-Way within the nighttime Work zone.

*** $$5$$ ***

The Contracting Agency will provide the Nighttime Work Mail Notification, and the Contractor shall submit the following information to the Contracting Agency 20 working days prior to the start of nighttime Work:

- Start date and duration of the nighttime Work.

- List of the expected nighttime noise sources.

- List of noise mitigation measures to be implemented.

The Contractor shall obtain the mailing distribution list of residents and property owners. The Contractor shall hire a Mailing Service to print and distribute by mail the Contracting Agency's provided Nighttime Work Mail Notification to the required residences *** $$6$$ *** working days prior to the start of the night Work.

The Contractor shall not proceed with nighttime Work unless all conditions listed in this Contract are in place and the Affidavit of Service by Mailing is received by the Contracting Agency 24 hours prior to the start of nighttime Work.

The Affidavit of Service by Mailing is a notarized document from the Mailing Service stating that the Nighttime Work Mail Notifications were mailed. A list of addresses obtained by the Contractor for the mailing shall be included with the Affidavit.

***General***

Failure of the Contractor to perform all obligations under this Special Provision will result in the suspension of all night Work until a corrective Work plan is accepted by the Engineer. Working days will continue to accrue during the period of suspension.

The Contractor shall be responsible for obtaining all exemptions or variances to perform nighttime Work outside the project limits such as staging areas. A copy of each exemption or variance obtained by the Contractor shall be provided to the Contracting Agency before proceeding with the nighttime Work.

Other noise mitigation measures may be required, and it is understood that the Contractor is responsible for devising methods that comply with all ordinances. Compliance with the above noise mitigation measures shall not be considered a warranty that the equipment or the activity will comply with all local regulations.

***Payment***

All costs to comply with the above noise exemption/variance requirements shall be included in the associated items of Work.

1-07.1.OPT5.FR1

***(October 3, 2022)***

***Nighttime Construction Work Requirements***

The Contractor shall perform nighttime Work within the Contracting Agency's Right-of-Way under the measures listed below to minimize construction noise:

1. All trucks performing export haul shall have well maintained bed liners as inspected and accepted by the Engineer.

2. Truck tailgate banging is prohibited. All truck tailgates shall be secured to prevent excessive noise from banging.

3. The Contractor shall mail Nighttime Work Mail Notifications to residents located within *** $$1$$ *** feet of Contracting Agency Right-of-Way within the nighttime Work zone.

*** $$2$$ ***

The Contracting Agency will provide the Nighttime Work Mail Notification and the Contractor shall submit the following information to the Contracting Agency 20 working days prior to the start of nighttime Work:

- Start date and duration of the nighttime Work.
- List of the expected nighttime noise sources.
- List of noise mitigation measures to be implemented.

The Contractor shall obtain the mailing distribution list of residents and property owners. The Contractor shall hire a Mailing Service to print and distribute by mail the Contracting Agency's provided Nighttime Work Mail Notification to the required residences *** $$3$$ *** working days prior to the start of the night Work.

The Contractor shall not proceed with nighttime Work unless all conditions listed in this Contract are in place and the Affidavit of Service by Mailing is received by the Contracting Agency 24 hours prior to the start of nighttime Work.

The Affidavit of Service by Mailing is a notarized document from the Mailing Service stating that the Nighttime Work Mail Notifications were mailed. A list of addresses obtained by the Contractor for the mailing shall be included with the Affidavit.

***General***

Failure of the Contractor to perform all obligations under this Special Provision will result in the suspension of all night Work until a corrective Work plan is accepted by the Engineer. Working days will continue to accrue during the period of suspension.

The Contractor shall be responsible for obtaining all exemptions or variances to perform nighttime Work outside the project limits such as staging areas. A copy of each exemption or variance obtained by the Contractor shall be provided to the Contracting Agency before proceeding with the nighttime Work.

Other noise mitigation measures may be required, and it is understood that the Contractor is responsible for devising methods that comply with all ordinances. Compliance with the above noise mitigation measures shall not be considered a warranty that the equipment or the activity will comply with all local regulations.

***Payment***

All costs to comply with the above nighttime Work requirements shall be included in the associated items of Work.

1-07.1.OPT6.FR1

***(October 3, 2022)***

****** $$1$$ *** Noise Exemption/Variance Conditions***

The jurisdiction(s) listed below has granted a nighttime noise exemption and/or variance to its respective noise control code and WAC 173-60 to allow Contracting Agency representatives to perform nighttime Work under the conditions as listed below.

| Jurisdiction | Nights | Expiration Date |
|---|---|---|
| *** $$2$$ *** | *** $$3$$*** | *** $$4$$ *** |

This exemption/variance allows the Contractor to exceed the local noise ordinance levels. All nighttime Work activities require approved noise exemptions or variances from the listed jurisdiction(s) including nighttime Work within the Contracting Agency's Right-of-Way.

The Contractor shall perform the following measures to minimize construction noise:

1. All trucks performing export haul shall have well maintained bed liners as inspected and accepted by the Engineer.

2. Truck tailgate banging is prohibited. All truck tailgates shall be secured to prevent excessive noise from banging.

3. A copy of the noise exemption and/or variance shall be kept on the project site at all times.

*** $$5$$ ***

***General***

Failure of the Contractor to perform all obligations under this Special Provision will result in the suspension of all night Work until a corrective Work plan is accepted by the Engineer. Working days will continue to accrue during the period of suspension.

The Contractor shall be responsible for obtaining all exemptions or variances to perform nighttime Work outside the project limits such as staging areas. A copy of each exemption or variance obtained by the Contractor shall be provided to the Contracting Agency before proceeding with the nighttime Work.

Other noise mitigation measures may be required, and it is understood that the Contractor is responsible for devising methods that comply with all ordinances. Compliance with the above noise mitigation measures shall not be considered a warranty that the equipment or the activity will comply with all local regulations.

***Payment***

All costs to comply with the above noise exemption/variance requirements shall be included in the associated items of Work.

1-07.1(2).GR1

***Health and Safety***

1-07.1(2).INST1.GR1

Section 1-07.1(2) is supplemented with the following:

1-07.1(2).OPT1.GR1

**(September 27, 2021)**

**Governor's Proclamation 20-05/21-14**

The Contractor, by submitting its Bid, agrees that it will comply with Governor's Proclamations 20-05 as amended and 21-14 as amended, regarding COVID-19 Vaccination Requirements, and that it will require its workers, service providers, subcontractors, suppliers, and their workers to comply as well. Furthermore, prior to

starting Work, the Contractor shall provide a Vaccine Declaration form (WSDOT Form #271-050).

The Proclamations are available at: https://www.governor.wa.gov/office-governor/official-actions/proclamations

All costs related to the Governor's Proclamations shall be considered included with or incidental to other Bid items.

1-07.1(2).OPT2.GR1

**(October 3, 2022)**

**Diving and Workboat Safety Requirements**

The Contractor shall comply with the requirements of WAC 296-37, "Standards for Commercial Diving Operations" and the requirements contained herein as applicable. The Contractor shall give the Engineer 24 hours advance notice of any planned diving or workboat activity.

**General Requirements for Communications and Safety**

The following requirements shall be followed whenever diving or workboat activity is performed at the ferry terminal:

- Prior to diving and workboat activity, the Contractor shall obtain approval from the Engineer.
- Notification shall be made no less than one hour prior to the Diver entering the water.
- The Engineer or designee will be responsible for notifying each vessel of the upcoming day's diving or workboat activity.
- The Engineer will request that the vessels depart under low power (slow bell) unless otherwise necessary due to weather conditions.
- The diving team and workboat operations shall not disrupt the ferry service schedule.
- Communications between the Diver and the Diver's Tender shall be maintained at all times.
- The Engineer and Masters shall be notified at the completion of diving and workboat activity each day.

**Slip-Specific Diving Requirements**

The following safety rules shall be followed when diving activities are performed within the diving envelope of the ferry slip. The diving envelope is defined as occurring in an active ferry slip being used for vessel operations:

- It includes the area around all of the slip landing aid structures.
- A 50-yard by 50-yard box which is bisected by the centerline of the slip and runs from the off-shore portion of the apron toward shore.

A three-member minimum diving team will be required when diving within the diving envelope. The duties of the team members shall include:

- One member shall be diving.

- One member shall be in a skiff, on the trestle or on the transfer span acting as the Diver's Tender. The Diver's Tender shall maintain communication with the Diver, and the Safety Technician, at all times. In addition, the Diver's Tender shall ensure that the diver has safely surfaced and cleared the diving area five minutes prior to the vessel landing, unless the Diver is outside the envelope.

- One member shall act as a Safety Technician. The Safety Technician shall be in a skiff or on shore and shall maintain constant communication with the Diver's Tender.

Upon completion of diving activity, the Safety Technician shall notify the Engineer and Masters. Once the diver has cleared the diving area, the Safety Technician shall directly radio the Master on each arriving vessel and relay the message "DIVER CLEAR". The Engineer will provide the Safety Technician a hand-held radio for this purpose.

**Slip-Specific Workboat Requirements**

The following safety rules shall be followed when operating workboats at the ferry terminal:

- The workboat shall not pass in front of a ferry vessel when it is closer than 500 yards from the terminal on approach (33 CFR 165.1317).

- While the ferry vessel is making the landing approach to the ferry terminal, workboats shall maintain a 100-yard distance unless moored to a larger anchored vessel or to a landing structure for other than the active slip (33 CFR 165.1317).

- Workboats shall maintain a 25-yard distance from any ferry vessel while ferry vessels are moored at the ferry terminal unless approved by the vessel Master (33 CFR 165.1317).

- Operators of workboats shall be aware of the slip and any vessels that are or will be using the slip.

- Operators of workboats shall be aware of the ferry schedule and when ferry vessels will be departing so that they can position their workboat in a safe operating location in compliance with the requirements noted above.

- The workboat **shall not** cross under the active occupied slip unless the Master has been notified and agrees.

- Workboats shall be moored in locations that will provide visibility to vessel approaches and/or protection from any prop wash that may occur by ferry vessel approaches and departures.

**Payment**
All costs to comply with this Special Provision covering diver and workboat safety shall be included in related items of Work.

1-07.1(2).OPT3.FR1
**(September 3, 2019)**
**Lead Health Protection Program**
Structural and non-structural materials located at the project site *** $$1$$ *** contain lead-based products. The Contractor shall be fully responsible for the safety and health of all on-site workers and compliant with Washington Administrative Code (WAC 296-155-176). The Contractors Lead Health Protection Program shall be submitted to the Contracting Agency as a Type 2 Working Drawing prior to the Contractor beginning work involving exposure to lead contamination. The Contractor shall communicate with the Engineer to ensure a coordinated effort for providing and maintaining a safe worksite for both the Contracting Agency's and Contractor's workers.

**Construction Requirements**
The Contractor shall be responsible for the containment measures required to provide and maintain a safe and healthful jobsite for the duration of the project in accordance with all applicable laws and this Special Provision.

**Payment**
All costs to comply with this Special Provision for the Lead Health Protection laws and regulations are the responsibility of the Contractor and shall be included in related items of work.

1-07.3.GR1
## Fire Prevention and Merchantable Timber Requirements

1-07.3.INST1.GR1
Section 1-07.3 is supplemented with the following:

1-07.3.OPT1.GR1
(August 2, 2004)
The Forest Service Provisions, included in the Appendix to these Special Provisions, are made a part of this contract. The Contractor shall comply with the requirements of these Forest Service provisions at no additional cost to the Contracting Agency.

**1-07.3(2).GR1**
### *Merchantable Timber Requirements*

1-07.3(2).INST1.GR1
Section 1-07.3(2) is supplemented with the following:

1-07.3(2).OPT1.GR1
(April 7, 2008)
This project contains merchantable timber.

*Export Restrictions* - DOT Form 410-100, Purchaser Certification for Export Restricted Timber, will be included when the contract is sent to the Contractor for execution. The form shall be completed and signed by the Contractor. The

Contractor shall send the original signed form and one copy of the signed form directly to the Washington State Department of Revenue at the address on the form. The Contractor shall send one signed copy along with the other documents required by Section 1-03.3 to the Contracting Agency with the executed contract.

*State Tax Requirements* - It shall be the Contractor's responsibility to pay to the State Department of Revenue all taxes on harvested timber.

1-07.4.GR1

## Sanitation

1-07.4(2).GR1

### *Health Hazards*

1-07.4(2).INST1.GR1

Section 1-07.4(2) is revised to read:

1-07.4(2).OPT1.FR1

(August 7, 2017)

This project site is known to be occupied by transients and therefore contains biological hazards and associated physical hazards. These may include, but not be limited to violent and dangerous individuals, hypodermic needles, garbage, broken glass, human and animal excrement, drug paraphernalia, and other hazards.

The Contractor shall take precautions and perform any necessary Work required to provide and maintain a safe and healthful jobsite for all workers and the public for the duration of the project in accordance with all applicable laws and contract requirements.

The Contractor shall ensure that the public, including persons who may be non-English speaking or those who may not be able to recognize potential safety and health hazards within the project area, are not harmed by the Contractors activities.

Nothing required by this Specification shall operate as a waiver of the Contractor's responsibility for taking all steps necessary to ensure the safety of the public under Section 1-07.23 or responsibility for liability and damages under Section 1-07.14 or for any other responsibility under the Contract or as may be required by law.

**Health and Safety Plan**

The Contractor shall prepare a written Health and Safety Plan. The plan shall be prepared under the supervision of a certified industrial hygienist and shall incorporate all required County, State, and Federal health and safety provisions. The plan shall include requirements of the Federal Occupational Safety and Health Act of 1970 (OSHA), all amendments, and all other applicable health regulations.

Preparation of the Health and Safety Plan shall include an initial site assessment by the industrial hygienist. The plan shall break initial cleanup of the project into identifiable construction areas. The plan shall be submitted to the Engineer prior to commencing cleanup Work. At least one copy of the plan shall be posted at the work site while cleanup Work is in progress. The industrial hygienist shall

perform one or more follow-up site assessments as needed to approve the site following completion of the initial site cleanup.

**Public Notification**

The Contractor shall furnish and install the “No Trespassing” signs shown in the Plans at locations staked by the Engineer at least 72 hours prior to performing site cleanup or any potentially hazardous Work (such as clearing or operating equipment).

At the same time that “No Trespassing” signs are posted, provide written notification of the following to the Engineer and to the chief law enforcement officer of the local governmental entity where the Work will occur:

1. The precise location of each area that is posted “No Trespassing”;

2. The date and time that each site was posted “No Trespassing”;

3. The date, time, description and duration of the Work to be performed at each site.

At least 72 hours prior to performing site cleanup in Work areas containing encampments (such as tents, makeshift dwellings, sleeping sites, or accumulations of personal property that are not refuse), the Contractor shall post a notification at each encampment area. Each notice shall:

1. Be weather resistant, and written in both English and Spanish.

2. Be affixed to each dwelling or post mounted within 10-feet of each encampment;

3. State the Prime Contractor’s company name as the entity that performed the cleanup as required by the Washington State Department of Transportation;

4. Provide the date that the notice is posted;

5. Provide date(s) and time(s) that cleanup will occur;

6. Provide the telephone number, business hours and physical address of the location where stored personal property may be claimed.

7. State that personal property will be stored for 70-days from the date of removal, and if unclaimed within that time, will be disposed of.

At the same time that notifications are posted at encampment areas, provide written notification of the schedule to perform site cleanup to the Engineer and to the following advocacy groups:

***$$1$$***

Acceptance of signs and notifications will be based on visual inspection that the sign and notifications meet these requirements.

**Site Cleanup of Biological and Physical Hazards**

An initial cleanup of the site, including all preparatory work required to make the worksite sanitary and safe in accordance with applicable laws and with the Contract, shall be completed to remove all individuals, encampments, and personal property from areas signed “No Trespassing”, and to address all biological and associated physical hazards present on the project. Necessary worker training, on and off site preparations, and personal protective equipment shall be provided by the Contractor to complete this Work. If aggressive or violent individuals are encountered, the Contractor shall notify the local law enforcement agency to assist them in clearing the Work area.

Site cleanup of individual areas identified in the Health and Safety Plan shall be performed no more than 30 days in advance of performing other Work in each area.

The refuse generated by the site cleanup shall become the property of the Contractor and shall be removed from the project. Personal property shall be handled as required by this Specification and applicable laws.

**Removal, Storage and Return of Personal Property**

Personal property may include radios, audio and video equipment, sleeping bags, tents, stoves and cooking utensils, lanterns, flashlights, bed rolls, tarps, foam, canvas, mats, blankets, pillows, medication, personal papers, photographs, books and other reading materials, luggage, backpacks or other storage containers, clothing, towels, shoes, toiletries and cosmetics, clocks and watches, and eye glasses. Personal property does not include building materials such as wood products, metal, or rigid plastic.

Personal property items that are not refuse, contaminated, illegal or hazardous shall be removed from the Work area and stored at a location near the project site for return to the property owner. Items shall be placed in large transparent plastic bags and stored in a manner that protects them from adverse weather and theft. Reasonable efforts shall be made to place all items from each encampment into a separate bag. Each bag shall be labeled with an inventory to include a brief description of the contents, a description of the location that it was removed from, and the date that it was removed from the Work area. The Contractor shall not open closed items of personal property unless, in its determination, it is necessary to do so to protect public safety.

The Contractor shall retain the property for 70-days.

If the name and contact information of the owner of a personal property item is identified on that item, then for a period of not less than 10-days after removing the property from the Work area, the Contractor shall attempt to notify the apparent owner of the property and make arrangements for the owner to claim the property.

The Contractor shall release the property to any individual who claims ownership provided they are able to establish ownership by identifying the property and its approximate location. The Contractor shall maintain a record of all property that

is claimed. The record shall include a description of the property, the date claimed, and the name of the claimant.

If personal property is not claimed within 70-days of removal from the encampment, then the property shall become the property of the Contractor and shall be removed from the project.

**Site Preservation**
The Contractor shall preserve the site after initial cleanup of biological and physical hazards.

On a daily basis and prior to performing any Work in areas where pedestrians or encampments may be present, the Contractor shall verify that the Work area is cleared of all persons not associated with the project. Individuals may seek shelter in dumpsters, equipment, under blankets, or other places hidden from view. Individuals may be disabled, or under the influence of alcohol or drugs and it should not be assumed that loud construction noise will wake them.

If the worksite becomes unsanitary or unsafe due to new encampments or new biological and associated physical hazards after initial cleanup is completed, then the Contractor shall perform additional site assessment, additional notification and additional cleanup.

The Engineer may authorize additional site preservation measures. The nature and frequency of these measures will be as agreed to by the Engineer. Additional site preservation measures may include the use of fencing, lighting, or security, provided it is approved in advance by the Engineer. Work performed without Engineer authorization will not be eligible for payment.

**Measurement**
No trespassing signs will be measured per each.

**Payment**
Payment will be made for the following bid items when they are included in the proposal:

“No Trespassing Sign”, per each.
The unit contract price per each “No Trespassing Sign” shall be full payment for all Work required to furnish, install, maintain and remove the signs.

“Health and Safety Plan”, lump sum.

The lump sum unit contract price for “Health and Safety Plan” shall be full payment for all Work associated with the preparation and implementation of the Health and Safety Plan including the initial and follow up assessment(s) for initial site cleanup, worker training and personal protective equipment, and providing required notifications.

"FA-Site Cleanup of Bio. And Physical Hazards”, by force account as provided in Section 1-09.6.

Removal and disposal of biological and physical hazards; removal of individuals and encampments; removal, storage, and return of personal property; disposal of unclaimed personal property; additional site assessment, notifications, worker training and personal protective equipment required after the initial site cleanup is completed; and site preservation Work authorized by the Engineer will be paid for by force account in accordance with Section 1-09.6.

For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "FA-Site Cleanup of Bio. And Physical Hazards" in the bid proposal to become a part of the total bid by the Contractor.

1-07.5.GR1

## Environmental Regulations

1-07.5.INST1.GR1

Section 1-07.5 is supplemented with the following:

1-07.5.OPT1.GR1

***(September 20, 2010)***

***Environmental Commitments***

The following Provisions summarize the requirements, in addition to those required elsewhere in the Contract, imposed upon the Contracting Agency by the various documents referenced in the Special Provision **Permits and Licenses**. Throughout the work, the Contractor shall comply with the following requirements:

1-07.5.OPT1(A).FR1

(August 4, 2014)

The Contractor shall submit a written notification to the Engineer no later than 10 calendar days prior to beginning any ground disturbing activities *** $$1$$ ***. The Contractor shall not commence any such ground disturbing activities until the monitor is present.

1-07.5.OPT1(B).FR1

(April 1, 2019)

The Contractor shall notify the Engineer a minimum of *** $$1$$ *** calendar days prior to commencing any work in sensitive areas, mitigation areas, and wetland buffers. Installation of construction fencing is excluded from this notice requirement.

1-07.5.OPT1(C).FR1

(April 1, 2019)

No *** $$1$$ *** is allowed within *** $$2$$ *** feet of *** $$3$$ ***.

1-07.5.OPT2.GR1

***(August 3, 2009)***

***Payment***

All costs to comply with this special provision for the environmental commitments and requirements are incidental to the contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the associated bid prices of the contract.

1-07.5(2).GR1

***State Department of Fish And Wildlife***

1-07.5(1).INST1.GR1

Section 1-07.5(1) is supplemented with the following:

1-07.5(1).OPT1.FR1

**(October 3, 2022)**

**In-Water Operations Along Marine Shorelines**

In-Water Operations along Marine Shorelines shall meet the requirements from *** $$1$$ ***.

The Contractor's vessels and equipment operating in support of the Work shall be in adequate water depth and shall use the minimum required propulsion to prevent impacts from propeller wash and grounding to seagrass, kelp, and forage fish spawning beds as shown in the Plans. The Contractor shall not conduct activities that may cause scouring within, or other types of sediment transfer out of or into the seagrass, kelp, and forage fish spawning beds. At no time shall any vessel or temporary floating work contact the ground.

The Contractor shall not deploy anchors or spuds in seagrass or kelp. The Contractor shall maintain anchor cable tension, set and retrieve anchors vertically, and prevent mooring cables from dragging to avoid impacts to seagrass and kelp.

To minimize shading of seagrass, the Contractor shall relocate vessels moored over seagrass every fourth day when working within the allowed working dates listed in *** $$2$$ ***.

The Contractor shall not allow debris or any type of fuel, solvent or lubricant to enter the water.

1-07.5(2).INST1.GR1

Section 1-07.5(2) is supplemented with the following:

1-07.5(2).OPT1.GR1

(April 2, 2018)

The following Provisions summarize the requirements, in addition to those required elsewhere in the Contract, imposed upon the Contracting Agency by the Washington State Department of Fish and Wildlife. Throughout the work, the Contractor shall comply with the following requirements:

1-07.5(2).OPT1(A).FR1

(April 2, 2018)

The Contractor may begin Work below the Ordinary High Water Line on *** $$1$$ *** and must complete all the Work by *** $$2$$ ***.

1-07.5(2).OPT2.GR1

(April 2, 2018)

All costs to comply with this special provision are incidental to the Contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the associated bid prices of the Contract.

1-07.5(3).INST1.GR1

Section 1-07.5(3) is supplemented with the following:

1-07.5(3).OPT1.GR1

(April 2, 2018)

The following Provisions summarize the requirements, in addition to those required elsewhere in the Contract, imposed upon the Contracting Agency by the Washington State Department of Ecology. Throughout the work, the Contractor shall comply with the following requirements:

1-07.5(3).OPT1(A).FR1

(August 3, 2009)

A mixing zone is established within which the turbidity standard is waived during actual in-water work. The mixing zone is established to only temporarily allow exceeding the turbidity criteria (such as a few hours or days) and is not authorization to exceed the turbidity standard for the entire duration of the construction. The mixing zone shall not exceed *** $$1$$ *** feet downstream from the construction area.

1-07.5(3).OPT1(B).GR1

(April 1, 2019)

Stormwater, dewatering water, or other authorized non-stormwater discharges that has come into contact with pH modifying substances such as concrete rubble, cast concrete or amended soils, need to be maintained between 6.5 – 8.5 standard units (su). If pH exceeds 8.5 su, the Contractor shall immediately discontinue work and initiate treatment to prevent discharges outside the acceptable range from occurring. All neutralization methods used shall be in accordance with the permit. Work may resume once treatment has been implemented and pH of the stormwater or authorized non-stormwater discharge is between 6.5 - 8.5 su or it can be demonstrated that high pH waters will not discharge to surface waters.

Stormwater, dewatering water, and other authorized non-stormwater discharges are monitored weekly for compliance with the turbidity benchmark (25 nephelometric turbidity units (ntu)) and the phone reporting trigger value (250 ntu) by the Contracting Agency. When the turbidity benchmark is breached, the best management practices (BMPs) installed on-site are not working adequately and need to be adapted, maintained or more BMPs shall be installed. When the turbidity phone reporting trigger value is breached, immediate action is required in order to lower the turbidity to $\leq$25 ntu or to eliminate the discharge. Daily follow-up discharge samples will be collected at all locations where a discharge of 250 ntu or higher was collected unless the discharge was stopped or eliminated.

1-07.5(3).OPT2.GR1

(April 2, 2018)

All costs to comply with this special provision are incidental to the Contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the associated bid prices of the Contract.

1-07.5(4).GR1

***Air Quality***

1-07.5(4)C.GR1

**Asbestos Containing Material**

1-07.5(4)C.INST1.GR1

Section 1-07.5(4)C is supplemented with the following:

1-07.5(4)C.OPT1.FR1

**(October 4, 2021)**

**Asbestos Good Faith Investigation**

An asbestos Good Faith Investigation (GFI) has been conducted for this project and it has been determined that known Asbestos Containing Material (ACM), and/or Presumed Asbestos Containing Material (PACM), will be disturbed by the work on this project. The asbestos GFI has been provided in Appendix *** $$1$$ ***.

1-07.5(4)C.OPT2.FR1

**(October 4, 2021)**

**Asbestos Good Faith Investigation**

An asbestos Good Faith Investigation (GFI) has been conducted for this project and it has been determined to a reasonable certainty that no known Asbestos Containing Material (ACM) will be disturbed by the work on this project. The asbestos GFI has been provided as Appendix *** $$1$$ ***.

1-07.5(5).GR1

***U.S. Army Corps of Engineers***

1-07.5(5).INST1.GR1

Section 1-07.5(5) is supplemented with the following:

1-07.5(5).OPT1.GR1

(April 2, 2018)

The following Provisions summarize the requirements, in addition to those required elsewhere in the Contract, imposed upon the Contracting Agency by the U.S. Army Corps of Engineers. Throughout the work, the Contractor shall comply with the following requirements:

1-07.5(5).OPT1(B).FR1

(February 25, 2013)

Temporary fills at *** $$1$$ *** must be removed within *** $$2$$ *** calendar days of beginning placement of these fills. This time period may be extended with approval from the Engineer. Requests to extend must be received a minimum of 45 days prior to the expiration of number of days listed above, since the extension is subject to concurrence by the U.S. Army Corps of Engineers.

1-07.5(5).OPT1(C).GR1

(February 25, 2013)

Temporary structures and dewatering of areas under the jurisdiction of the U.S. Army Corps of Engineers must maintain normal downstream flows and prevent upstream and downstream flooding to the maximum extent practicable.

1-07.5(5).OPT1(D).GR1

(August 3, 2009)

Heavy equipment working in wetlands or mudflats must be placed on mats or other measures taken to minimize soil disturbance as approved by the Engineer.

1-07.5(5).OPT1(F).GR1

(September 7, 2021)

The Contractor shall dispose of all creosoted timber, creosote piling and associated debris as shown in the Plans in accordance with current federal, state, and local regulations and provisions, and following Best Management Practices. Disposal shall be made in a landfill which meets the liner and leachate standards of the Minimum Functional Standards for Solid Waste Handling, Chapter 173-304 WAC. The Contractor shall provide receipts from the disposal facility to the Engineer. If the material is transported to a transfer station, the Contractor shall obtain documentation indicating that final disposal will comply with the standards referenced above.

1-07.5(5).OPT2.GR1

(April 2, 2018)

All costs to comply with this special provision are incidental to the Contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the associated bid prices of the Contract.

1-07.5(6).GR1

***U.S. Fish and Wildlife Service and National Marine Fisheries Service***

1-07.5(6).INST1.GR1

Section 1-07.5(6) is supplemented with the following:

1-07.5(6).OPT1.GR1

(April 2, 2018)

The following Provisions summarize the requirements, in addition to those required elsewhere in the Contract, imposed upon the Contracting Agency by the U.S. Fish/Wildlife Services and the National Marine Fisheries Service. Throughout the work, the Contractor shall comply with the following requirements:

1-07.5(6).OPT1(B).GR1

(April 2, 2018)

The Contractor shall place temporary storage piles of erosive materials outside the 100-year floodplain during the rainy season (October 1 through June 1). Material that will be used within 12 hours of deposition is exempt from this requirement. The Contractor shall employ best management practices to prevent sediment delivery to waterbodies, wetlands, or conveyances that drain to such features.

1-07.5(6).OPT1(C).FR1

(April 2, 2018)

The Contractor shall not allow temporary floating work platforms to run aground. Anchors and chains shall never contact fish spawning areas in freshwater or eelgrass, kelp, macro algae, or intertidal wetlands as indicated in the Plans.

Shading eelgrass, kelp, or macro algae beds by work platforms shall not exceed *** $$1$$ *** days.

1-07.5(6).OPT1(D).GR1

(April 2, 2018)

The Contractor shall provide concrete truck chute cleanout areas to contain fresh concrete and wash water. The Contractor shall dispose of the waste material at a facility permitted to take such waste.

1-07.5(6).OPT1(E).GR1

(April 2, 2018)

The Contractor shall not use creosote-treated wood below the Ordinary High Water Mark.

1-07.5(6).OPT1(F).GR1

(April 2, 2018)

The Contractor shall remove piles by directly pulling, using vibratory devices, or by cutting the piles below ground level to minimize localized turbidity. If use of a clamshell bucket is necessary due to pile breakage, turbidity curtains will be employed by the Contractor.

1-07.5(6).OPT1(G).GR1

(April 2, 2018)

The Contractor shall remove piles and place them directly into a receptacle that prevents sediment or other material from entering waters of the state.

1-07.5(6).OPT1(H).FR1

(April 2, 2018)

Contracting Agency staff will monitor sound pressure during in-water pile driving of steel piles, including H-piles, and sheet piles. Results that exceed *** $$1$$ *** will require the Contractor to adjust work methods or employ additional best practices to safely proceed.

1-07.5(6).OPT1(I).FR1

(April 2, 2018)

The Contractor shall direct temporary lights for night work away from *** $$1$$ ***.

1-07.5(6).OPT1(J).FR1

(April 2, 2018)

The Contractor shall conduct night Work only during the period from 2 hours after sunset to 2 hours before sunrise. Setting up and taking down traffic control are exempt from these time restrictions. Refer to the following website, using the City of *** $$1$$ *** for sunrise and sunset times:

http://www.sunrisesunset.com/usa/washington.asp

1-07.5(6).OPT1(K).FR1

(April 2, 2018)

The Contractor shall conduct night Work only during the period from 1 hour after sunset to 1 hour before sunrise. Setting up and taking down traffic control are

exempt from these time restrictions. Refer to the following website, using the City of *** $$1$$ *** for sunrise and sunset times:

http://www.sunrisesunset.com/usa/washington.asp

1-07.5(6).OPT1(L).FR1

(April 2, 2018)

The Contractor must cease Work 2 hours before sunrise. Setting up and taking down traffic control are exempt from these time restrictions. Refer to the following website, using the City of *** $$1$$ *** for sunrise times:

http://www.sunrisesunset.com/usa/washington.asp

1-07.5(6).OPT1(M).FR1

(April 2, 2018)

When night and day time Work is required, the Contractor shall not perform Work from 1 hour before sunrise to 2 hours after sunrise and no Work from 2 hours before sunset to 1 hour after sunset. Setting up and taking down traffic control are exempt from these time restrictions. Refer to the following website, using the City of *** $$1$$ *** for sunrise and sunset times:

http://www.sunrisesunset.com/usa/washington.asp

1-07.5(6).OPT1(N).FR1

(April 2, 2018)

When night and day time Work is required, the Contractor shall not perform Work from 1 hour before sunrise to 2 hours after sunrise. Setting up and taking down traffic control are exempt from these time restrictions. Refer to the following website, using the City of *** $$1$$ *** for sunrise and sunset times:

http://www.sunrisesunset.com/usa/washington.asp

1-07.5(6).OPT1(O).GR1

(April 2, 2018)

The Contractor shall develop a Type 2 Working Drawing to ensure that trash and food waste is collected daily and contained in secured garbage receptacles.

1-07.5(6).OPT1(P).FR1

(September 3, 2019)

Between April 1 and September 22, the Contractor *** $$1$$ *** are restricted to between two hours after sunrise and two hours before sunset. Setting up and taking down traffic control are exempt from these time restrictions. Refer to the following website, using the City of *** $$2$$ *** for sunrise and sunset times:

http://www.sunrisesunset.com/usa/washington.asp

1-07.5(6).OPT1(Q).GR1

(September 7, 2021)

Galvanizing and zinc coatings shall not be used below the 100 year mean recurrence interval water surface.

1-07.5(6).OPT1(R).FR1

**(September 7, 2021)**

**Bird Protection and Monitoring**

**Description**

This Work includes preparing a Project-specific Bird Projection Plan, implementation of the Bird Protection Plan, updating the Bird Protection Plan, surveying, monitoring, and reporting of bird activity, actions required in the event nests and species are surveyed and encountered, and Contractor training.

**Construction Requirements**

No onsite Work may begin on the Project until the Bird Protection Plan has been accepted by the Engineer.

The Contractor shall maintain a copy of the Bird Protection Plan at the Work site and update as necessary to reflect the conditions as the Work progresses.

The Contractor shall take precautions to prevent birds from nesting on bridges or other structures that would be demolished, modified, or disturbed by Project construction.

The Contractor shall conduct site monitoring and shall report the results of their inspections. From March 15 to September 15, the Contractor shall conduct, at minimum, three inspections during the work week; once on Monday, Wednesday, and Friday, to identify nest starts. The Contractor shall indicate their intended inspection schedule in their Bird Protection Plan.

The Contractor shall remove nest starts as soon as they are discovered in accordance with their Project-specific Bird Protection Plan. If an active nest (i.e., one that has eggs or chicks) is found, the Contractor must immediately stop all associated Work and contact the Engineer before implementing the relevant Project-specific Bird Protection Plan measures. Active nest removal shall not proceed prior to notifying to and receiving approval from the Engineer.

The Contractor shall notify the Engineer if a raptor nest is discovered or suspected. If a raptor nest (including unoccupied ones outside the breeding season) is found, it shall not be removed.

From September 16 to March 14, the Contractor may discontinue weekly inspections and reports, but shall remove old nests in accordance with the Project-specific Bird Protection Plan. In the rare instance that an active nest is discovered during this time, the Migratory Bird Treaty Act (MBTA) requirements apply and the Contractor must adhere to the Project-specific Bird Protection Plan and applicable Contract provisions. However, the Contractor shall not be responsible for the removal of active nests during this time period.

The Contractor shall train all project staff. The Contractor shall provide a list of training for all Project staff as part of their Bird Protection Plan. The

Contractor training shall include an overview of the MBTA and the Bald and Golden Eagle Protection Act, how to identify nesting activity, and what to do if a nest is discovered.

**Submittals**

The Contractor shall prepare a Project-specific Bird Protection Plan and submit it to the Engineer no later than 10 days after the execution of the Contract. The Plan shall be a Type 2 Working Drawing and apply to *** $$1$$ *** during the active nesting season described as March 15 to September 15.

The Contractor's Project-specific Bird Protection Plan shall be prepared and implemented by a qualified biologist. The biologist shall be available to work during day or night to lead, direct, or carry out monitoring, inspection, and activities described in the Project-specific Bird Protection Plan. The Bird Protection Plan shall include the following information on the biologist:

1. Evidence of the qualification for the designated Biologist and a backup Biologist. The evidence of qualification will include at a minimum a bachelor's degree in biology, zoology, natural resource management, environmental science, or a related degree with a science emphasis.

2. Resumé of each biologists' work experience including:

    a. Description of applicable projects over a five-year period to include a description of the work experience to identify birds and bird nests with the associated projects.

    b. Duration of each project including start date and finish date.

    c. Position held for each applicable project.

    d. Location of each project to include 2 years in the Pacific Northwest.

    e. References, including the name and contact information for each project.

The Project-specific Bird Protection Plan shall also include:

1. Bird species identified by the Contracting Agency in the MBTA Assessment Report (Appendix *** $$2$$ ***).

2. Precautions taken or to be taken to prevent birds from nesting on bridges or other structures that would be demolished, modified, or disturbed by project construction.

3. Methods, materials, and equipment used to remove nest starts, which are described as partial or complete nests that don't contain eggs or chicks.

4. Containment methods to prevent removed nesting materials from contributing to air or water pollution.

5. Disposal of nesting materials removed in accordance with Section 2-03.3(7)C.

6. Communicating, notifying, and documenting:

    a. Name and contact information of the Contractor's qualified biologist and one qualified emergency back-up biologist.

    b. Name and contact information of the Engineer.

    c. Describe notification, communication, and documentation procedures to follow in the event an active nest (i.e., one that has eggs or chicks) or unanticipated species upon the discovery of a nest.

    d. Describe notification to follow in the event a raptor nest (even unoccupied ones outside the breeding season) is discovered.

7. The list of Contractor employees that have received Bird Protection training.

Once a week, the Contractor shall submit a Type 1 Working Drawing to the Engineer, detailing their findings from the prior week's inspections.

**Payment**

Payment will be made for the following bid item when included in the proposal:

"Bird Protection and Monitoring", Lump Sum.
The lump sum Contract price for "Bird Protection and Monitoring" shall be full pay for all the Work as specified.

1-07.6.GR1

## Permits and Licenses

1-07.6.INST1.GR1

Section 1-07.6 is supplemented with the following:

1-07.6.OPT1.FR1

(January 2, 2018)

The Contracting Agency has obtained the below-listed permit(s) for this project. A copy of the permit(s) is attached as an appendix for informational purposes. Copies of these permits, including a copy of the Transfer of Coverage form, when applicable, are required to be onsite at all times.

Contact with the permitting agencies, concerning the below-listed permit(s), shall be made through the Engineer with the exception of when the Construction Stormwater General Permit coverage is transferred to the Contractor, direct communication with the Department of Ecology is allowed. The Contractor shall be responsible for obtaining

Ecology's approval for any Work requiring additional approvals (e.g. Request for Chemical Treatment Form). The Contractor shall obtain additional permits as necessary. All costs to obtain and comply with additional permits shall be included in the applicable Bid items for the Work involved.

*** $$1$$ ***

1-07.6.OPT3.GB1

***United States Coast Guard***

1-07.6.OPT3(A).FB1

(September 3, 2019)

The Contracting Agency has obtained a United States Coast Guard Bridge Permit *** $$1$$ *** for this project.

The Contractor shall furnish, install, maintain, and remove all temporary navigation lights, signs, signals, and any other warning devices required by the Coast Guard and as required for public safety on all falsework, cofferdams, or other temporary structure in the waterway.

The Contractor shall comply with all Coast Guard requirements inclusive of the following Bridge Permit conditions:

1. The construction of falsework, cofferdams or other obstructions, if required, shall be in accordance with plans submitted to and approved by the Commander, 13th Coast Guard District, prior to construction of the bridge. All work shall be so conducted that the free navigation of the waterway is not unreasonably interfered with and the present navigable depths are not impaired. Timely notice of any and all events that may affect navigation shall be given to the District Commander during construction of the bridge. The channel or channels through the structure shall be promptly cleared of all obstructions placed therein or caused by the construction of the bridge to the satisfaction of the District Commander, when in the District Commander's judgment the construction work has reached a point where such action should be taken, but in no case later than 90 calendar days after the bridge has been opened to traffic.

2. *** $$2$$ ***

The Contractor shall notify the Coast Guard in writing, with a copy to the Engineer, of the work start date at least seven calendar days before beginning any site work and shall at that time designate the Contractor's authorized representative, and work phone number, for coordination on matters that relate to Coast Guard approvals and requirements.

The Contractor's applications for required Coast Guard construction approvals for this project shall include, but not be limited to, cofferdams, falsework, temporary navigation lighting, work bridges, and other obstructions. These applications shall be submitted to the Coast Guard by the Contractor, with a copy to the Engineer, a minimum of 30 calendar days in advance of the scheduled work. A schedule of when the work is to be performed and when the obstructions are to be permanently removed shall be a part of the Contractor's application.

The Contractor shall provide the Coast Guard and the Engineer with prompt verbal notice, followed by written notice, of any subsequent changes to this proposed schedule.

A copy of all Coast Guard approvals shall be provided to the Engineer upon receipt but not later than prior to beginning work on the items of work involved.

By the 20th of each month, the Contractor shall furnish the Engineer a schedule of the work expected to be performed in the next two months. The Engineer will transmit this information through the Bridge and Structures Office to the Coast Guard so that interested users of the waterway can be notified.

The Coast Guard contact is:

Bridge Administrator
Thirteenth Coast Guard District
915 Second Avenue Suite 3510
Seattle, WA 98174-1067
D13-pf-d13bridges@uscg.mil
Telephone: (206) 220-7282

All costs in connection with furnishing, installing, maintaining, and removing temporary navigation lights, signs, signals, or other warning devices shall be included in the contract prices for the items of work involved.

All costs incurred in obtaining the required Coast Guard approvals and in complying with all requirements specified herein shall be included in the contract prices for the items of work involved.

All costs in connection with delays in the construction caused by the Contractor's failure to obtain the necessary Coast Guard approvals shall be at the Contractor's expense.

1-07.6.OPT3(B).GB1
(September 3, 2019)
The Contractor shall comply with all United States Coast Guard requirements.

The Contractor shall submit a Type 3 Working Drawing consisting of a Navigation Work Plan at least 60-calendar days prior to beginning activities and operations affecting any part of the waterway in the vicinity of the bridge work. The Navigation Work Plan shall include, at a minimum, the following:

1. Lead Contractor contact for the project, with associated email and phone number.

2. Scheduled on-site start work date and finish work date.

3. Days and times of operation over the nominal work week.

4. Dates and times of stages of work, as applicable for operations involving sequential or staged activities.

5. Location of the Work by latitude and longitude, river mile, and geographic point of land, with latitude and longitude expressed in degrees, minutes, seconds, and thousandths of seconds.

6. Identification and description of barges, vessels and equipment present in the waterway, if any, to facilitate operations. The description shall include vessel type, vessel name (as applicable), means of voice contact (VHF frequencies, cell phone number, etc.) to the vessel, means of anchoring and mooring the vessel and the location of such anchoring and mooring, the extent to which the vessel is encroaching into the defined navigation channel, and lighting support vessels in accordance with the Coast Guard Rules of the Road as applicable.

7. Point of contact phone number available for 24-hour-seven-days-a-week contact from local mariners through the duration of the project.

8. Detailed identification of work operation hazards to mariners, if any, created by operations (cables, buoys, machinery, tools, tows, containment and platform structures, falling debris, etc.), including details such as size, diameter, color as applicable.

9. Precautions regarding the in-water vessels, equipment, and work operation hazards, if any, affecting local mariners such as operating speed and wake, clearance distance, etc.

10. Systems and equipment causing a reduction in the available vertical clearance beneath the bridge, if any, such as containment and platform systems and supports and the equipment necessary to install, maintain, and remove such systems, and the identification of any falling debris hazard to waterway traffic.

11. Description of advisory signage and lighting to be implemented by the Contractor to advise local mariners of the operations, reduced clearances, and presence of work operation hazards, as applicable. The description shall include the advisory message, and placement and orientation of the signage and flashing amber lighting (4-seconds/15 per minute).

The Engineer will submit the Navigation Work Plan to the US Coast Guard contact identified below for concurrent review. Approval from the US Coast Guard and the Engineer is required prior to the US Coast Guard issuing a Local Notice to Mariners advising of the operations, and allowing the operations to commence.

The Contractor shall contact the US Coast Guard for requirements related to the mooring of barges, placement of log booms, and all other equipment that could be a hazard to waterway users.

Provisions shall be made for the removal, on 2 hours notice, of all equipment that would block or partially block, the navigable portion of the waterway.

The US Coast Guard contact is:

Bridge Administrator
Thirteenth Coast Guard District
915 Second Avenue Suite 3510

Seattle, WA 98174-1067
D13-pf-d13bridges@uscg.mil
Telephone: (206) 220-7282

All costs incurred in contacting the US Coast Guard and in complying with all the requirements specified herein shall be included in the contract prices for the items of work involved.

All costs in connection with delays in the construction caused by the Contractor's failure to contact the US Coast Guard shall be at the Contractor's expense.

1-07.7.GR1

## Load Limits

1-07.7.INST1.GR1

Section 1-07.7 is supplemented with the following:

1-07.7.OPT3.FR1

(March 13, 1995)

The State has made arrangements with *** $$1$$ *** for the Contractor's use of the *** $$2$$ *** shown in the Plans as a haul route for materials coming from *** $$3$$ *** Site *** $$4$$ *** and used on this project. The Contractor shall comply with all existing legal restrictions.

If the Contractor selects different haul routes than those designated, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.

1-07.7.OPT4.FR1

(March 13, 1995)

The Contractor shall also comply with the further restrictions imposed by the owner of the roads as follows:

*** $$1$$ ***

1-07.7.OPT5.GR1

(March 13, 1995)

Whenever the Contractor obtains materials from a source other than that provided by the Contracting Agency, or provides a source for materials not designated to come from a source provided by the State and the location of the source necessitates hauling on other than State Highways, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.

1-07.7.OPT6.GR1

(March 13, 1995)

If the sources of materials provided by the Contractor necessitates hauling over roads other than State Highways, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.

1-07.9.GR1

## Wages

**1-07.9(1).GR1**

***General***

1-07.9(1).INST1.GR1

Section 1-07.9(1) is supplemented with the following:

1-07.9(1).OPT1.GR1

(January 10, 2022)

The Federal wage rates incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA20220001.

The State rates incorporated in this contract are applicable to all construction activities associated with this contract.

1-07.9(1).OPT2.FR1

(January 10, 2022)

The Federal wage rates for Highway Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA20220001. These rates are applicable to highway construction.

The Federal wage rates for Building Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. *** $$1$$ ***. These rates are applicable to building construction.

The State rates incorporated in this contract are applicable to all construction activities associated with this contract.

1-07.9(1).OPT3.FR1

(May 11, 2010)

The Federal wage rates for Building Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. *** $$1$$ ***. These rates are applicable to building construction.

The State rates incorporated in this contract are applicable to all construction activities associated with this contract.

1-07.9(1).OPT5.FR1

(January 10, 2022)

The Federal wage rates for Highway Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA20220001. These rates are applicable to highway construction.

The Federal wage rates for Heavy Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. *** $$1$$ ***. These rates are applicable to heavy construction.

The State rates incorporated in this contract are applicable to all construction activities associated with this contract.

1-07.9(1).OPT6.FR1

(January 10, 2022)

The Federal wage rates for Highway Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA20220001. These rates are applicable to highway construction.

The Federal wage rates for Heavy Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. *** $$1$$ ***. These rates are applicable to heavy construction.

The Federal wage rates for Building Construction incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. *** $$2$$ ***. These rates are applicable to building construction

The State rates incorporated in this contract are applicable to all construction activities associated with this contract.

~~1-07.9(2).GR1~~

~~***Posting Notices***~~

~~1-07.9(2).INST1.GR1~~

~~Item number 11 in Section 1-07.9(2) is revised to read:~~

~~1-07.9(2).OPT1.2023.GR1~~

~~(January 10, 2022)~~

~~11. F700-074-000 – **Your Rights as a Worker in Washington State** by Washington State Department of Labor and Industries (L&I). Post on all projects.~~

1-07.9(3).GR1

***Apprentices***

1-07.9(3).INST1.GR1

Section 1-07.9(3) is supplemented with the following:

1-07.9(3).OPT1.GR1

**(~~January 6, 2020~~October 3, 2022)**

**Apprentice Utilization**

This Contract includes an Apprentice Utilization Requirement. No less than 15 percent of project Labor Hours shall be performed by Apprentices.

**Definitions**

For the purposes of this specification the following definitions apply:

1. Apprentice is a person enrolled in a State-approved Apprenticeship Training Program.

2. Apprentice Utilization Requirement is the Apprentice labor hours expressed as a percentage of the project Labor Hours.

3. Good Faith Effort (GFE) is used if the Contractor doesn't meet the Apprentice Utilization Requirement. It describes the Contractor's efforts to meet the Apprentice Utilization Requirement including but not necessarily limited to the specific steps as described elsewhere in this specification.

4. Labor Hours are the total hours performed by all workers receiving an hourly wage who are directly employed upon the project including hours performed by workers employed by the Contractor and all ~~S~~subcontractors. Labor Hours do not include hours performed by foremen, superintendents, owners, and workers who are not subject to prevailing wage requirements.

5. State-approved Apprenticeship Training Program is an apprenticeship training program approved by the Washington State Apprenticeship Council.

**Electronic Reporting**

The Contractor shall use the State L&I online Prevailing Wage Intent & Affidavit (PWIA) System to submit the "Apprentice Utilization Plan" and "Good Faith Effort" documentation. Reporting instructions are available in the application.

**Apprentice Utilization Plan**

The Contractor shall submit an "Apprentice Utilization Plan" by filling out the Apprentice Utilization Plan Form (WSDOT Form 424-004) within 30 calendar days of execution, demonstrating how and when they intend to achieve the Apprentice Utilization Requirement. The Plan shall be in sufficient detail for the Engineer to track the Contractor's progress in meeting the utilization requirements and be updated and resubmitted as the Work progresses or when ordered by the Engineer.

If the Contractor is unable to demonstrate ability to meet the Apprentice Utilization Requirement in their Apprentice Utilization Plan, they must submit GFE documentation to the State L&I online PWIA System for review and comment with their Apprentice Utilization Plan. The Contractor shall actively seek out opportunities to meet the Apprentice Utilization Requirement during the construction Work.

**Contacts**

The Contractor may obtain information on State-approved Apprenticeship Training Programs by contacting the Department of Labor and Industries at:

Specialty Compliance And Services Division, Apprenticeship Section, P.O. Box 44530, Olympia, WA 98504-4530 or by phone at (360) 902-5320.

**Compliance**

In the event that the Contractor is unable to achieve the Apprentice Utilization Requirement, the Contractor shall submit to the State L&I online PWIA System GFE documentation for review and approval. The GFE documentation shall be submitted after Substantial Completion but no later than 30 days after Physical Completion. If GFE documentation was previously submitted as part of the Apprentice Utilization Plan, it shall be updated and resubmitted after Substantial Completion but no later than 30 days after Physical Completion.

If the Contractor fails to submit GFE documentation or if the Engineer does not approve the GFE, the Contractor will be subject to disciplinary actions as allowed under WAC 468-16-180.

**Good Faith Efforts**

The GFE shall describe in detail why the Contractor is not or was not able to attain the Apprentice Utilization Requirement. The GFE documentation shall address one or more of the following areas:

1. Correspondence on solicitation of Apprentices from a State-approved Apprenticeship Training Program(s), and the response from the solicited State-Approved Apprenticeship Training Program(s) when there is a lack of availability of Apprentices.

2. Provide documentation that shows Contract requirements for TERO, Special Training or Disadvantage Business Enterprise requirements affect the ability to obtain Apprentice Labor Hours on the Contract.

3. Provide documentation demonstrating what efforts the Contractor has taken to require ~~S~~subcontractors to solicit and employ Apprentices. Documentation could be posters placed on site, emphasis in subcontracts about employing Apprentices, letters, memos or other correspondence from Contractor to ~~S~~subcontractor that put an emphasis on employing Apprentices.

Contractors may receive a GFE credit for graduated Apprentice hours through the end of the calendar year for all projects worked on as long as the Apprentice remains continuously employed with the same Contractor they were working for when they graduated. If an Apprentice graduates during employment on a project of significant duration, they may be counted towards a GFE credit for up to one year after their graduation or until the end of the project (whichever comes first). Determination of whether or not Contract requirements were met in good faith will be made by subtracting the hours from the journeyman total reported hours for the project and adding them to the apprentice hour total. If the new utilization percentage meets the Contract requirement, the Contractor will be reported as meeting the requirement in good faith.

**Payment**

All costs incurred by the Contractor for complying with this specification shall be included in the Contract prices for the Bid items of Work involved.

1-07.11.GR1

## Requirements for Nondiscrimination

1-07.11.INST1.GR1

Section 1-07.11 is supplemented with the following:

1-07.11.OPT1.GR1

(~~September 3, 2019~~October 3, 2022)

Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246)

1. The Contractor's attention is called to the Equal Opportunity Clause and the Standard Federal Equal Employment Opportunity Construction Contract Specifications set forth herein.

2. The goals and timetables for minority and female participation set by the Office of Federal Contract Compliance Programs, expressed in percentage terms for the Contractor's aggregate work force in each construction craft and in each trade on all construction work in the covered area, are as follows:

Women - Statewide

| Timetable | Goal |
|---|---|
| Until further notice | 6.9% |

Minorities - by Standard Metropolitan Statistical Area (SMSA)

Spokane, WA:

SMSA Counties:

Spokane, WA — 2.8

WA Spokane.

Non-SMSA Counties — 3.0

WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA Lincoln, WA Pend Oreille; WA Stevens; WA Whitman.

Richland, WA

SMSA Counties:

Richland Kennewick, WA — 5.4

WA Benton; WA Franklin.

Non-SMSA Counties — 3.6

WA Walla Walla.

Yakima, WA:

SMSA Counties:

Yakima, WA — 9.7

WA Yakima.

Non-SMSA Counties — 7.2

WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.

Seattle, WA:
SMSA Counties:
Seattle Everett, WA 7.2
WA King; WA Snohomish.
Tacoma, WA 6.2
WA Pierce.
Non-SMSA Counties 6.1
WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap; WA Lewis; WA Mason; WA Pacific; WA San Juan; WA Skagit; WA Thurston; WA Whatcom.

Portland, OR:
SMSA Counties:
Portland, OR-WA 4.5
WA Clark.
Non-SMSA Counties 3.8
WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.

These goals are applicable to each nonexempt Contractor's total on-site construction workforce, regardless of whether or not part of that workforce is performing work on a Federal, or federally assisted project, contract, or subcontract until further notice. Compliance with these goals and time tables is enforced by the Office of Federal Contract compliance Programs.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, in each construction craft and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goal shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Office of Federal Contract Compliance Programs (OFCCP) within 10 working days of award of any construction subcontract in excess of $10,000 or more that are Federally funded, at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the ~~S~~subcontractor; employer identification number of the ~~S~~subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed. The notification shall be sent to:

U.S. Department of Labor
Office of Federal Contract Compliance Programs Pacific Region
Attn: Regional Director
San Francisco Federal Building
90 – 7th Street, Suite 18-300

San Francisco, CA 94103(415) 625-7800 Phone
(415) 625-7799 Fax

4. As used in this Notice, and in the contract resulting from this solicitation, the Covered Area is as designated herein.

<u>Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246)</u>

1. As used in these specifications:

    a. Covered Area means the geographical area described in the solicitation from which this contract resulted;

    b. Director means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;

    c. Employer Identification Number means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U. S. Treasury Department Form 941;

    d. Minority includes:

        (1) Black, a person having origins in any of the Black Racial Groups of Africa.

        (2) Hispanic, a fluent Spanish speaking, Spanish surnamed person of Mexican, Puerto Rican, Cuban, Central American, South American, or other Spanish origin.

        (3) Asian or Pacific Islander, a person having origins in any of the original peoples of the Pacific rim or the Pacific Islands, the Hawaiian Islands and Samoa.

        (4) American Indian or Alaskan Native, a person having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

2. Whenever the Contractor, or any ~~S~~subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of $10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or ~~S~~subcontractor participating in an approved Plan is individually

required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or ~~S~~subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or ~~S~~subcontractor's failure to take good faith effort to achieve the Plan goals and timetables.

4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of this Special Provision. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.

7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its action. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

    a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

    b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions

have employment opportunities available, and maintain a record of the organizations' responses.

c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.

d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

e. Develop on-the-job training opportunity and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the U.S. Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.

f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.

i. Direct its recruitment efforts, both oral and written to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

j. Encourage present minority and female employees to recruit other minority persons and women and where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.

k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

l. Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of the obligations under 7a through 7p of this Special Provision provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensure that the concrete benefits of the program are reflected in the Contractor's minority and female work-force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrate the effectiveness of actions taken on behalf of

the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).

10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.

11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspensions, terminations and cancellations of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of this Special Provision, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the government and to keep records. Records shall at least include, for each employee, their name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, the Contractors will not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

16. Additional assistance for Federal Construction Contractors on contracts administered by Washington State Department of Transportation or by Local Agencies may be found at:

    Washington State Dept. of Transportation
    Office of Equal Opportunity
    PO Box 47314
    310 Maple Park Ave. SE
    Olympia WA
    98504-7314
    Ph: 360-705-7090
    Fax: 360-705-6801
    http://www.wsdot.wa.gov/equalopportunity/default.htm

1-07.11.OPT2.GR1

***(~~September 7, 2021~~October 3, 2022)***

***Disadvantaged Business Enterprise Participation***

The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 and USDOT's official interpretations (i.e., Questions & Answers) apply to this Contract. As such, the requirements of this Contract are to make affirmative efforts to solicit DBEs, provide information on who submitted a Bid or quote and to report DBE participation monthly as described elsewhere in these Contract Provisions. No preference will be included in the evaluation of Bids/Proposals, no minimum level of DBE participation shall be required as a Condition of Award and Bids/Proposals may not be rejected or considered non-responsive on that basis.

**DBE Abbreviations and Definitions**

**Broker** – A business firm that provides a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for the performance of the Contract, or, persons/companies who arrange or expedite transactions.

**Certified Business Description** – Specific descriptions of work the DBE is certified to perform, as identified in the Certified Firm Directory, under the Vendor Information page.

**Certified Firm Directory** – A database of all Minority, Women, and Disadvantaged Business Enterprises. The on-line Directory is available to Contractors for their use in identifying and soliciting interest from DBE firms. The database is located under the Firm Certification section of the Diversity Management and Compliance System web page at: https://omwbe.diversitycompliance.com.

**Commercially Useful Function (CUF)**

49 CFR 26.55(c)(1) defines commercially useful function as: "A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and

quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a commercially useful function, you must evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the DBE credit claimed for its performance of the work, and other relevant factors."

**Contract** – For this Special Provision only, this definition supplements Section 1-01.3. 49 CFR 26.5 defines contract as: "… a legally binding relationship obligating a seller to furnish supplies or services (including, but not limited to, construction and professional services) and the buyer to pay for them. For purposes of this part, a lease is considered to be a contract."

**Disadvantaged Business Enterprise (DBE)** – A business firm certified by the Washington State Office of Minority and Women's Business Enterprises, as meeting the criteria outlined in 49 CFR 26 regarding DBE certification.

**Force Account Work** – Work measured and paid in accordance with Section 1-09.6.

**Manufacturer (DBE)** – A DBE firm that operates or maintains a factory or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract. A DBE Manufacturer shall produce finished goods or products from raw or unfinished material or purchase and substantially alters goods and materials to make them suitable for construction use before reselling them.

**Regular Dealer (DBE)** – A DBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Regular Dealer, the DBE firm must be an established regular business that engages in as its principal business and in its own name the purchase and sale of the products in question. A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum products need not own, operate or maintain a place of business if it both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by long-term formal lease agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions shall not be regarded as Regular Dealers within the meaning of this definition.

**DBE Goals**

No DBE goals have been assigned as part of this Contract.

**Affirmative Efforts to Solicit DBE Participation**

The Contractor shall not discriminate on the grounds of race, color, sex, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. DBE firms shall have an equal opportunity to compete for subcontracts in which the Contractor enters into pursuant to this Contract.

Contractors are encouraged to:

1. Advertise opportunities for ~~S~~subcontractors or suppliers in a timely and reasonably designed manner to provide notice of the opportunity to DBEs capable of performing the Work. All advertisements should include a Contract Provision encouraging participation by DBE firms. This may be accomplished through general advertisements (e.g. newspapers, journals, etc.) or by soliciting Bids/Proposals directly from DBEs.

2. Establish delivery schedules that encourage participation by DBEs and other small businesses.

3. Participate with a DBE as a joint venture.

**DBE Eligibility/Selection of DBEs for Reporting Purposes Only**
Contractor may take credit for DBEs utilized on this Contract only if the firm is certified for the Work being performed, and the firm performs a commercially useful function (CUF).

Absent a mandatory goal, all DBE participation that is attained on this project will be considered as "race neutral" participation and shall be reported as such.

**Crediting DBE Participation**
All DBE ~~S~~subcontractors shall be certified before the subcontract on which they are participating is executed.

Be advised that although a firm is listed in the directory, there are cases where the listed firm is in a temporary suspension status. The Contractor shall review the OMWBE Suspended DBE Firms list. A DBE firm that is included on this list may not enter into new contracts that count towards participation.

DBE participation is only credited upon payment to the DBE.

The following are some definitions of what may be counted as DBE participation.

**DBE Prime Contractor**
Only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE Prime Contractor performs with its own forces and is certified to perform.

**DBE Subcontractor**
Only take credit for that portion of the total dollar value of the subcontract equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces. The value of work performed by the DBE includes the cost of supplies and materials purchased by the DBE and equipment leased by the DBE, for its work on the contract. Supplies, materials or equipment obtained by a DBE that are not utilized or incorporated in the contract work by the DBE will not be eligible for DBE credit.

The supplies, materials, and equipment purchased or leased from the Contractor or its affiliate, including any Contractor's resources available to DBE subcontractors at no cost, shall not be credited.

DBE credit will not be given in instances where the equipment lease includes the operator. The DBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the DBE, but payment is deducted from the Contractor's payment to the DBE is not allowed.

If a DBE subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be credited only if the DBE's Lower-Tier ~~S~~subcontractor is also a DBE. Work subcontracted to a non-DBE shall not be credited.

Count expenditures toward race/gender-neutral participation only if the DBE is performing a CUF on the contract.

**DBE Subcontract and Lower Tier Subcontract Documents**

There must be a subcontract agreement that complies with 49 CFR Part 26 and fully describes the distinct elements of Work committed to be performed by the DBE. The subcontract agreement shall incorporate requirements of the primary Contract. Subcontract agreements of all tiers, including lease agreements shall be readily available at the project site for the Engineer review.

**DBE Service Provider**

The value of fees or commissions charged by a DBE Broker, a DBE behaving in a manner of a Broker, or another service provider for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance specifically required for the performance of the contract will only be credited as DBE participation, if the fee/commission is determined by the Contracting Agency to be reasonable and the firm has performed a CUF.

**Temporary Traffic Control**

If the DBE firm is being utilized in the capacity of only "Flagging", the DBE firm must provide a Traffic Control Supervisor (TCS) and flagger, which are under the direct control of the DBE. The DBE firm shall also provide all flagging equipment (e.g. paddles, hard hats, and vests).

If the DBE firm is being utilized in the capacity of "Traffic Control Services", the DBE firm must provide a TCS, flaggers, and traffic control items (e.g., cones, barrels, signs, etc.) and be in total control of all items in implementing the traffic control for the project. In addition, if the DBE firm utilizes the Contractor's equipment, such as Transportable Attenuators and Portable Changeable Message Signs (PCMS) no DBE credit can be taken for supplying and operating the items.

**Trucking**

DBE trucking firm participation may only be credited as DBE participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier. In situations where the DBE's work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine DBE credit for hauling.

The DBE trucking firm must own and operate at least one licensed, insured and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The DBE receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.

The DBE may lease additional trucks from another DBE firm. The Work that a DBE trucking firm performs with trucks it leases from other certified DBE trucking firms qualify for 100% DBE credit

The trucking Work subcontracted to any non-DBE trucking firm will not receive credit for Work done on the project. The DBE may lease trucks from a non-DBE truck leasing company, but can only receive credit as DBE participation if the DBE uses its own employees as drivers.

DBE credit for a truck broker is limited to the fee/commission that the DBE receives for arranging transportation services.

Truck registration and lease agreements shall be readily available at the project site for the Engineer review.

**DBE Manufacturer and DBE Regular Dealer**

One hundred percent (100%) of the cost of the manufactured product obtained from a DBE Manufacturer can count as DBE participation.

Sixty percent (60%) of the cost of materials or supplies purchased from a DBE Regular Dealer may be credited as DBE participation. If the role of the DBE Regular Dealer is determined to be that of a pass-through, then no DBE credit will be given for its services. If the role of the DBE Regular Dealer is determined to be that of a Broker, then DBE credit shall be limited to the fee or commission it receives for its services. Regular Dealer status and the amount of credit is determined on a Contract-by-Contract basis.

Regular Dealer DBE firms must be approved before being used on a project. The WSDOT Approved Regular Dealer list published on WSDOT's Office of Equal Opportunity (OEO) web site must include the specific project for which approval is being requested. The Regular Dealer must submit the Regular Dealer Status Request form a minimum of five days prior to being utilized on the specific project.

Purchase of materials or supplies from a DBE which is neither a manufacturer nor a regular dealer, (i.e. Broker) only the fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, can count as DBE participation provided the fees are not excessive as compared with fees customarily allowed for similar services. Documentation will be required to support the fee/commission charged by the DBE. The cost of the materials and supplies themselves cannot be counted toward as DBE participation.

Note: Requests to be listed as a Regular Dealer will only be processed if the requesting firm is a material supplier certified by the Office of Minority and Women's Business Enterprises in a NAICS code that falls within the 42XXXX NAICS Wholesale code section.

**Procedures Between Award and Execution**

After Award and prior to Execution, the Contractor shall provide the additional information described below. Failure to comply shall result in the forfeiture of the Bidder's Proposal bond or deposit.

1. A list of all firms who submitted a Bid or quote in attempt to participate in this project whether they were successful or not. Include the business name and mailing address.

   Note: The firms identified by the Contractor may be contacted by the Contracting Agency to solicit general information as follows: age of the firm and average of its gross annual receipts over the past three-years.

**Procedures After Execution**

**Commercially Useful Function (CUF)**

The Contractor may only take credit for the payments made for Work performed by a DBE that is determined to be performing a CUF. Payment must be commensurate with the work actually performed by the DBE. This applies to all DBEs performing Work on a project, whether or not the DBEs are COA, if the Contractor wants to receive credit for their participation. The Engineer will conduct CUF reviews to ascertain whether DBEs are performing a CUF. A DBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The DBE must be responsible for negotiating price; determining quality and quantity; ordering the material, installing (where applicable); and paying for the material itself. If a DBE does not perform "all" of these functions on a furnish-and-install contract, it has not performed a CUF and the cost of materials cannot be counted toward DBE COA Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be readily available for review by the Engineer.

In order for a DBE traffic control company to be considered to be performing a CUF, the DBE must be in control of its work inclusive of supervision. The DBE shall employ a Traffic Control Supervisor who is directly involved in the management and supervision of the traffic control employees and services.

The DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which the funds are passed in order to obtain the appearance of DBE participation.

The following are some of the factors that the Engineer will use in determining whether a DBE trucking company is performing a CUF:

- The DBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on the

Contract. The owner demonstrates business related knowledge, shows up on site and is determined to be actively running the business.

- The DBE shall with its own workforce, operate at least one fully licensed, insured, and operational truck used on the Contract. The drivers of the trucks owned and leased by the DBE must be exclusively employed by the DBE and reflected on the DBE's payroll.

- Lease agreements for trucks shall indicate that the DBE has exclusive use of and control over the truck(s). This does not preclude the leased truck from working for others provided it is with the consent of the DBE and the lease provides the DBE absolute priority for use of the leased truck.

- Leased trucks shall display the name and identification number of the DBE.

**Joint Checking**

A joint check is a check between a ~~S~~subcontractor and the Contractor to the supplier of materials/supplies. The check is issued by the Contractor as payer to the ~~S~~subcontractor and the material supplier jointly for items to be incorporated into the project. The DBE must release the check to the supplier, while the Contractor acts solely as the guarantor.

A joint check agreement must be approved by the Engineer and requested by the DBE involved using the DBE Joint Check Request Form (form # 272-053) prior to its use. The form must accompany the DBE Joint Check Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks.

The approval to use joint checks and the use will be closely monitored by the Engineer. To receive DBE credit for performing a CUF with respect to obtaining materials and supplies, a DBE must "be responsible for negotiating price, determining quality and quantity, ordering the material and installing and paying for the material itself." The Contractor shall submit DBE Joint Check Request Form for the Engineer approval prior to using a joint check.

Material costs paid by the Contractor directly to the material supplier is not allowed. If proper procedures are not followed or the Engineer determines that the arrangement results in lack of independence for the DBE involved, no DBE credit will be given for the DBE's participation as it relates to the material cost.

**Prompt Payment**

Prompt payment to all subcontractors shall be in accordance with Section 1-08.1. Prompt Payment requirements apply to progress payments as well as return of retainage.

**Reporting**

The Contractor and all subcontractors/suppliers/service providers that utilize DBEs to perform work on the project, shall maintain appropriate records that will enable the Engineer to verify DBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this Contract.

**Decertification**

When a DBE is "decertified" from the DBE program during the course of the Contract, the participation of that DBE shall continue to count as DBE participation as long as the subcontract with the DBE was executed prior to the decertification notice. The Contractor is obligated to substitute when a DBE does not have an executed subcontract agreement at the time of decertification.

**Consequences of Non-Compliance**

Each contract with a Contractor (and each subcontract the Contractor signs with a ~~S~~subcontractor) must include the following assurance clause:

The Contractor, subrecipient, or ~~S~~subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

(1) Withholding monthly progress payments;

(2) Assessing sanctions;

(3) Liquidated damages; and/or

(4) Disqualifying the Contractor from future bidding as non-responsible.

**Payment**

Compensation for all costs involved with complying with the conditions of this Specification and any other associated DBE requirements is included in payment for the associated Contract items of Work, except otherwise provided in the Specifications.

1-07.11.OPT3.FR1

***(~~September 7, 2021~~October 3, 2022)***

***Disadvantaged Business Enterprise Participation***

The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 and USDOT's official interpretations (i.e., Questions & Answers) apply to this Contract. Demonstrating compliance with these Specifications is a Condition of Award (COA) of this Contract. Failure to comply with the requirements of this Specification may result in your Bid being found to be nonresponsive resulting in rejection or other sanctions as provided by Contract.

**DBE Abbreviations and Definitions**

**Broker** – A business firm that provides a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for

the performance of the Contract; or, persons/companies who arrange or expedite transactions.

**Certified Business Description** – Specific descriptions of work the DBE is certified to perform, as identified in the Certified Firm Directory, under the Vendor Information page.

**Certified Firm Directory** – A database of all Minority, Women, and Disadvantaged Business Enterprises currently certified by Washington State. The on-line Directory is available to Bidders for their use in identifying and soliciting interest from DBE firms. The database is located under the Firm Certification section of the Diversity Management and Compliance System web page at: https://omwbe.diversitycompliance.com.

**Commercially Useful Function (CUF)** – 49 CFR 26.55(c)(1) defines commercially useful function as: "*A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a commercially useful function, you must evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the DBE credit claimed for its performance of the work, and other relevant factors.*"

**Disadvantaged Business Enterprise (DBE)** – A business firm certified by the Washington State Office of Minority and Women's Business Enterprises, as meeting the criteria outlined in 49 CFR 26 regarding DBE certification.

**Force Account Work** – Work measured and paid in accordance with Section 1-09.6.

**Good Faith Efforts** – Efforts to achieve the DBE COA Goal or other requirements of this part which, by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement.

**Manufacturer (DBE)** – A DBE firm that operates or maintains a factory or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract. A DBE Manufacturer shall produce finished goods or products from raw or unfinished material or purchase and substantially alters goods and materials to make them suitable for construction use before reselling them.

**Reasonable Fee (DBE)** – For purposes of Brokers or service providers a reasonable fee shall not exceed 5% of the total cost of the goods or services brokered.

**Regular Dealer (DBE)** – A DBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required

for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Regular Dealer, the DBE firm must be an established regular business that engages in as its principal business and in its own name the purchase and sale of the products in question. A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum products need not own, operate or maintain a place of business if it both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by long-term formal lease agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions shall not be regarded as Regular Dealers within the meaning of this definition.

**DBE Commitment** – The scope of work and dollar amount the Bidder indicates they will be subcontracting to be applied towards the DBE Condition of Award Goal as shown on the DBE Utilization Certification Form for each DBE ~~S~~subcontractor. This DBE Commitment will be incorporated into the Contract and shall be considered a Contract requirement. The Contractor shall utilize the COA DBEs to perform the work and supply the materials for which they are committed. Any changes to the DBE Commitment require the Engineer's prior written approval.

**DBE Condition of Award (COA) Goal** – An assigned numerical amount specified as a percentage of the Contract. Initially, this is the minimum amount that the Bidder must commit to by submission of the Utilization Certification Form and/or by Good Faith Effort (GFE).

**DBE COA Goal**

The Contracting Agency has established a DBE COA Goal for this Contract in the amount of: *** $$1$$ ***

**Crediting DBE Participation**

Subcontractors proposed as COA must be certified prior to the due date for bids on the Contract. All non-COA DBE ~~S~~subcontractors shall be certified before the subcontract on which they are participating is executed.

DBE participation is only credited upon payment to the DBE.

The following are some definitions of what may be counted as DBE participation.

**DBE Prime Contractor**

Only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE Prime Contractor performs with its own forces and is certified to perform.

**DBE Subcontractor**

Only take credit for that portion of the total dollar value of the subcontract that is equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces and is certified to perform. The value of work performed by the DBE includes the cost of supplies and materials purchased by the DBE and equipment leased by the DBE, for its work on the contract. Supplies, materials or equipment obtained by a DBE that are not utilized or incorporated in the contract work by the DBE will not be eligible for DBE credit.

The supplies, materials, and equipment purchased or leased from the Contractor or its affiliate, including any Contractor's resources available to DBE subcontractors at no cost, shall not be credited.

DBE credit will not be given in instances where the equipment lease includes the operator. The DBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the DBE, but payment is deducted from the Contractor's payment to the DBE is not allowed.

When the subcontractor is part of a DBE Commitment, the following apply:

1. If a DBE subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE COA Goal only if the lower-tier ~~S~~subcontractor is also a DBE.

2. Work subcontracted to a lower-tier ~~S~~subcontractor that is a DBE may be counted toward the DBE COA Goal only if the lower-tier ~~S~~subcontractor self performs a minimum of 30 percent of the Work subcontracted to them.

3. Work subcontracted to a non-DBE does not count towards the DBE COA Goal.

**DBE Subcontract and Lower Tier Subcontract Documents**
There must be a subcontract agreement that complies with 49 CFR Part 26 and fully describes the distinct elements of Work committed to be performed by the DBE.

**DBE Service Provider**
The value of fees or commissions charged by a DBE firm behaving in a manner of a Broker, or another service provider for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance specifically required for the performance of the contract will only be credited as DBE participation, if the fee/commission is determined by the Contracting Agency to be reasonable and the firm has performed a CUF.

**Force Account Work**
When the Bidder elects to utilize force account Work to meet the DBE COA Goal, as demonstrated by listing this force account Work on the DBE Utilization Certification Form, for the purposes of meeting DBE COA Goal, only 50% of the Proposal amount shall be credited toward the Bidder's Commitment to meet the DBE COA Goal.

One hundred percent of the actual amounts paid to the DBE for the force account Work shall be credited towards the DBE COA Goal or DBE participation.

**Temporary Traffic Control**
If the DBE firm only provides "Flagging", the DBE firm must provide a Traffic Control Supervisor (TCS) and flagger(s), which are under the direct control of

the DBE. The DBE firm shall also provide all flagging equipment for its employees (e.g. paddles, hard hats, and vests).

If the DBE firm provides “Traffic Control Services”, the DBE firm must provide a TCS, flaggers, and traffic control items (e.g., cones, barrels, signs, etc.) and be in total control of all items in implementing the traffic control for the project.

**Trucking**

DBE trucking firm participation may only be credited as DBE participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier of those materials. In situations where the DBE’s work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine DBE credit for hauling

The DBE trucking firm must own and operate at least one licensed, insured and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The DBE receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.

The DBE may lease additional trucks from another DBE firm. The DBE who leases additional trucks from another DBE firm receives credit for the value of the transportation services the lessee DBE provides on the Contract.

The trucking Work subcontracted to any non-DBE trucking firm will not receive credit for Work done on the project.

The DBE may lease trucks from a truck leasing company (recognized truck rental center) but can only receive credit towards DBE participation if the DBE uses its own employees as drivers.

**DBE Manufacturer and DBE Regular Dealer**

One hundred percent (100%) of the cost of the manufactured product obtained from a DBE manufacturer may count towards the DBE COA Goal.

Sixty percent (60%) of the cost of materials or supplies purchased from a DBE Regular Dealer may be credited toward the DBE Goal. If the role of the DBE Regular Dealer is determined to be that of a Broker, then DBE credit shall be limited to the fee or commission it receives for its services. Regular Dealer status and the amount of credit is determined on a Contract-by-Contract basis.

DBE firms proposed to be used as a Regular Dealer must be approved before being listed as a COA/used on a project. The WSDOT Approved Regular Dealer list published on WSDOT’s Office of Equal Opportunity (OEO) web site must include the specific project for which approval is being requested. For purposes of the DBE COA Goal participation, the Regular Dealer must submit the Regular Dealer Status Request form a minimum of five calendar days prior to bid opening.

Purchase of materials or supplies from a DBE which is neither a manufacturer nor a regular dealer, (i.e. Broker) only the fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on the job site, may toward the DBE COA Goal provided the fees are not excessive as compared with fees customarily allowed for similar services. Documentation will be required to support the fee/commission charged by the DBE. The cost of the materials and supplies themselves cannot be counted toward the DBE Goal.

Note: Requests to be listed as a Regular Dealer will only be processed if the requesting firm is a material supplier certified by the Office of Minority and Women's Business Enterprises in a NAICS code that falls within the 42XXXX NAICS Wholesale code section.

**Disadvantaged Business Enterprise Utilization**

To be eligible for award of the Contract, the Bidder shall properly complete and submit a Disadvantaged Business Enterprise (DBE) Utilization Certification with the Bidder's sealed Bid Proposal, as specified in Section 1-02.9 Delivery of Proposal. The Bidder's DBE Utilization Certification must clearly demonstrate how the Bidder intends to meet the DBE COA Goal. A DBE Utilization Certification (WSDOT Form 272-056) is included in the Proposal package for this purpose as well as instructions on how to properly fill out the form.

The Bidder is advised that the items listed below when listed in the Utilization Certification must have their amounts reduced to the percentages shown and those reduced amounts will be the amount applied towards meeting the DBE COA Goal.

- Force account at 50%
- Regular dealer at 60%

In the event of arithmetic errors in completing the DBE Utilization Certification, the amount listed to be applied towards the DBE COA Goal for each DBE shall govern and the DBE total amount shall be adjusted accordingly.

Note: The Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal submitted that does not contain a DBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal.

**Disadvantaged Business Enterprise Written Confirmation Document(s)**

The Bidder shall submit a Disadvantaged Business Enterprise (DBE) Written Confirmation Document (completed and signed by the DBE) for each DBE firm listed in the Bidder's completed DBE Utilization Certification submitted with the Bid. Failure to do so will result in the associated participation being disallowed, which may cause the Bid to be determined to be nonresponsive resulting in Bid rejection.

The Confirmation Documents provide confirmation from the DBEs that they are participating in the Contract as provided in the Bidder's Commitment. The Confirmation Documents must be consistent with the Utilization Certification.

A DBE Written Confirmation Document (WSDOT Form 422-031) is included in the Proposal package for this purpose.

The form(s) shall be received as specified in the special provisions for Section 1-02.9 Delivery of Proposal.

It is prohibited for the Bidder to require a DBE to submit a Written Confirmation Document with any part of the form left blank. Should the Contracting Agency determine that an incomplete Written Confirmation Document was signed by a DBE, the validity of the document comes into question. The associated DBE participation may not receive credit.

**Selection of Successful Bidder/Good Faith Efforts (GFE)**

The successful Bidder shall be selected on the basis of having submitted the lowest responsive Bid, which demonstrates a good faith effort to achieve the DBE COA Goal. The Contracting Agency, at any time during the selection process, may request a breakdown of the bid items and amounts that are counted towards the overall contract goal for any of the DBEs listed on the DBE Utilization Certification.

Achieving the DBE COA Goal may be accomplished in one of two ways:

1. <u>By meeting the DBE COA Goal</u>
   Submission of the DBE Utilization Certification, supporting DBE Written Confirmation Document(s) showing the Bidder has obtained enough DBE participation to meet or exceed the DBE COA Goal, the DBE Bid Item Breakdown and the DBE Trucking Credit Form, if applicable.

2. <u>By documentation that the Bidder made adequate GFE to meet the DBE COA Goal</u>
   The Bidder may demonstrate a GFE in whole or part through GFE documentation ONLY IN THE EVENT a Bidder's efforts to solicit sufficient DBE participation have been unsuccessful. The Bidder must supply GFE documentation in addition to the DBE Utilization Certification, supporting DBE Written Confirmation Document(s), the DBE Bid Item Breakdown form and the DBE Trucking Credit Form, if applicable.

Note: In the case where a Bidder is awarded the contract based on demonstrating adequate GFE, the advertised DBE COA Goal will not be reduced. The Bidder shall demonstrate a GFE during the life of the Contract to attain the advertised DBE COA Goal.

GFE documentation, the DBE Bid Item Breakdown form, and the DBE Trucking Credit Form, if applicable, shall be submitted as specified in Section 1-02.9.

The Contracting Agency will review the GFE documentation and will determine if the Bidder made an adequate good faith effort.

**Good Faith Effort (GFE) Documentation**

GFE is evaluated when:

1. Determining award of a Contract that has COA goal,

2. When a COA DBE is terminated and substitution is required, and

3. Prior to Physical Completion when determining whether the Contractor has satisfied its DBE commitments.

49 CFR Part 26, Appendix A is intended as general guidance and does not, in itself, demonstrate adequate good faith efforts. The following is a list of types of actions, which would be considered as part of the Bidder's GFE to achieve DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

1. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the Work of the Contract. The Bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The Bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.

2. Selecting portions of the Work to be performed by DBEs in order to increase the likelihood that the DBE COA Goal will be achieved. This includes, where appropriate, breaking out contract Work items into economically feasible units to facilitate DBE participation, even when the Bidder might otherwise prefer to perform these Work items with its own forces.

3. Providing interested DBEs with adequate information about the Plans, Specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation.

    a. Negotiating in good faith with interested DBEs. It is the Bidder's responsibility to make a portion of the Work available to DBE subcontractors and suppliers and to select those portions of the Work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the Plans and Specifications for the Work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the Work.

    b. A Bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as the DBE COA Goal into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a Bidder's failure to meet the DBE COA Goal, as long as such costs are reasonable. Also, the ability or desire of a Bidder to perform the Work of a Contract with its own organization does not relieve the Bidder of the responsibility to make Good Faith Efforts. Bidders are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

4. Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The Bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the Bidder's efforts to meet the DBE COA Goal.

5. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Bidder.

6. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.

7. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.

8. Documentation of GFE must include copies of each DBE and non-DBE subcontractor quotes submitted to the Bidder when a non-DBE subcontractor is selected over a DBE for Work on the Contract. (ref. updated DBE regulations – 26.53(b)(2)(vi) & App. A)

**Administrative Reconsideration of GFE Documentation**

A Bidder has the right to request reconsideration if the GFE documentation submitted with their Bid was determined to be inadequate.

- The Bidder must request within 48 hours of notification of being nonresponsive or forfeit the right to reconsideration.

- The reconsideration decision on the adequacy of the Bidder's GFE documentation shall be made by an official who did not take part in the original determination.

- Only original GFE documentation submitted as a supplement to the Bid shall be considered. The Bidder shall not introduce new documentation at the reconsideration hearing.

- The Bidder shall have the opportunity to meet in person with the official for the purpose of setting forth the Bidder's position as to why the GFE documentation demonstrates a sufficient effort.

- The reconsideration official shall provide the Bidder with a written decision on reconsideration within five working days of the hearing explaining the basis for their finding.

**DBE Bid Item Breakdown**

The Bidder shall submit a DBE Bid Item Breakdown Form (WSDOT Form 272-054) as specified in the Special Provisions for Section 1-02.9, Delivery of Proposal.

**DBE Trucking Credit Form**

The Bidder shall submit a DBE Trucking Credit Form (WSDOT Form 272-058), as specified in the Special Provisions for Section 1-02.9, Delivery of Proposal.

Note: The DBE Trucking Credit Form is only required for a DBE Firm listed on the DBE Utilization Certification as a subcontractor for "Trucking" or "Hauling" and are performing a part of a bid item. For example, if the item of Work is Structure Excavation including Haul, and another firm is doing the excavation and the DBE Trucking firm is doing the haul, the form is required. For a DBE subcontractor that is responsible for an entire item of work that may require some use of trucks, the form is not required.

**Procedures between Award and Execution**

After Award and prior to Execution, the Contractor shall provide the additional information described below. Failure to comply shall result in the forfeiture of the Bidder's Proposal bond or deposit.

1. A list of all firms who submitted a bid or quote in attempt to participate in this project whether they were successful or not. Include the business name and mailing address.

Note: The firms identified by the Contractor may be contacted by the Contracting Agency to solicit general information as follows: age of the firm and average of its gross annual receipts over the past three-years.

**Procedures after Execution**

**Commercially Useful Function (CUF)**

The Contractor may only take credit for the payments made for Work performed by a DBE that is determined to be performing a CUF. Payment must be commensurate with the work actually performed by the DBE. This applies to all DBEs performing Work on a project, whether or not the DBEs are COA, if the Contractor wants to receive credit for their participation. The Engineer will conduct CUF reviews to ascertain whether DBEs are performing a CUF. A DBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The DBE must be responsible for negotiating price; determining quality and quantity; ordering the material, installing (where applicable); and paying for the material itself. If a DBE does not perform "all" of these functions on a furnish-and-install contract, it has not performed a CUF and the cost of materials cannot be counted toward DBE COA Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be provided prior to the ~~S~~subcontractor beginning Work. Any use of the Contractor's equipment by a DBE may not be credited as countable participation.

The DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which the funds are passed in order to obtain the appearance of DBE participation.

In order for a DBE traffic control company to be considered to be performing a CUF, the DBE must be in control of its work inclusive of supervision. The DBE

shall employ a Traffic Control Supervisor who is directly involved in the management and supervision of the traffic control employees and services.

The following are some of the factors that the Engineer will use in determining whether a DBE trucking company is performing a CUF:

- The DBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on the contract. The owner demonstrates business related knowledge, shows up on site and is determined to be actively running the business.

- The DBE itself shall own and operate at least one fully licensed, insured, and operational truck used on the Contract. The drivers of the trucks owned and leased by the DBE must be exclusively employed by the DBE and reflected on the DBE's payroll.

- Lease agreements for trucks shall indicate that the DBE has exclusive use of and control over the truck(s). This does not preclude the leased truck from working for others provided it is with the consent of the DBE and the lease provides the DBE absolute priority for use of the leased truck.

- Leased trucks shall display the name and identification number of the DBE.

**Truck Unit Listing Log**

In addition to the subcontracting requirements of Section 1-08.1, each DBE trucking firm shall submit supplemental information consisting of a completed Primary UDBE/DBE/FSBE Truck Unit Listing Log (WSDOT Form 350-077) and all Rental/Lease agreements (if applicable). The supplemental information shall be submitted in an electronic format to the Engineer prior to any trucking services being performed for DBE credit. Incomplete or incorrect supplemental information will be returned for correction. The corrected Primary Truck Unit Listing Log and any Updated Primary Truck Unit Listing Logs shall be submitted and accepted by the Engineer no later than ten calendar days of utilizing applicable trucks. Failure to submit or update the DBE Truck Unit Listing Log may result in trucks not being credited as DBE participation.

Each DBE trucking firm shall complete a Daily Truck Unit Listing Log for each day that the DBE performs trucking services for DBE credit. The Daily Truck Unit Listing Log forms shall be submitted by Friday of the week after the Work was performed by email to the following email address for the region administering the Contract:

Eastern Region - ERegionOEO@wsdot.wa.gov
North Central Region - NCRegionOEO@wsdot.wa.gov
Northwest Region - NWRegionOEO@wsdot.wa.gov
Olympic Region - ORegionOEO@wsdot.wa.gov
South Central Region - SCRegionOEO@wsdot.wa.gov
Southwest Region - SWRegionOEO@wsdot.wa.gov
Washington State Ferries - FerriesOEO@wsdot.wa.gov

**Joint Checking**

A joint check is a check between a ~~S~~subcontractor and the Contractor to the supplier of materials/supplies. The check is issued by the Contractor as payer to the ~~S~~subcontractor and the material supplier jointly for items to be incorporated into the project. The DBE must release the check to the supplier, while the Contractor acts solely as the guarantor.

A joint check agreement must be approved by the Engineer and requested by the DBE involved using the DBE Joint Check Request Form (form # 272-053) prior to its use. The form must accompany the DBE Joint Check Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks.

The approval to use joint checks and the use will be closely monitored by the Engineer. To receive DBE credit for performing a CUF with respect to obtaining materials and supplies, a DBE must "be responsible for negotiating price, determining quality and quantity, ordering the material, installing and paying for the material itself." The Contractor shall submit DBE Joint Check Request Form to the Engineer and be in receipt of written approval prior to using a joint check.

Material costs paid by the Contractor directly to the material supplier are not allowed. If proper procedures are not followed or the Engineer determines that the arrangement results in lack of independence for the DBE involved, no DBE credit will be given for the DBE's participation as it relates to the material cost.

**Prompt Payment**

Prompt payment to all subcontractors shall be in accordance with Section 1-08.1. Prompt payment requirements apply to progress payments as well as return of retainage.

**Subcontracts**

Prior to a DBE performing Work on the Contract, an executed subcontract between the DBE and the Contractor shall be submitted to the Engineer. The executed subcontracts shall be submitted by email to the following email address for the region administering the Contract:

Eastern Region – ERegionOEO@wsdot.wa.gov
North Central Region – NCRegionOEO@wsdot.wa.gov
Northwest Region – NWRegionOEO@wsdot.wa.gov
Olympic Region – ORegionOEO@wsdot.wa.gov
South Central Region – SCRegionOEO@wsdot.wa.gov
Southwest Region – SWRegionOEO@wsdot.wa.gov
Washington State Ferries – FerriesOEO@wsdot.wa.gov

**Reporting**

The Contractor and all subcontractors/suppliers/service providers that utilize DBEs to perform work on the project, shall maintain appropriate records that will enable the Engineer to verify DBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this contract.

**Changes in COA Work Committed to DBE**

The Contractor shall utilize the COA DBEs to perform the work and supply the materials for which each is committed unless prior written approval by the Engineer has been received by the Contractor. The Contractor shall not be entitled to any payment for work or material completed by the Contractor or subcontractors that was committed to be completed by the COA DBEs in the DBE Utilization Certification form.

**Owner Initiated Changes**

In instances where the Engineer makes changes that result in changes to Work that was committed to a COA DBE, the Contractor may be directed to substitute for the Work.

**Contractor Initiated Changes**

The Contractor cannot change the scope or reduce the amount of work committed to a COA DBE without good cause. Reducing DBE Commitment is viewed as partial DBE termination, and therefore subject to the termination procedures below.

**Original Quantity Underruns**

In the event that Work committed to a DBE firm as part of the COA underruns the original planned quantities the Contractor may be required to substitute other remaining Work to another DBE.

**Contractor Proposed DBE Substitutions**

Requests to substitute a COA DBE must be for good cause (see DBE termination process below), and requires prior written approval of the Engineer. After receiving a termination with good cause approval, the Contractor may only replace a DBE with another certified DBE. When any changes between Contract Award and Execution result in a substitution of COA DBE, the substitute DBE shall be certified prior to the bid opening on the Contract.

**DBE Termination**

Termination of a COA DBE (or an approved substitute DBE) is only allowed in whole or in part for good cause and with prior written approval of the Engineer. If the Contractor terminates a COA DBE without the prior written approval of the Engineer, the Contractor shall not be entitled to payment for work or material committed to, but not performed/supplied by the COA DBE. In addition, sanctions may apply as described elsewhere in this specification.

Prior to requesting approval to terminate a COA DBE, the Contractor shall give notice in writing to the DBE with a copy to the Engineer of its intent to request to terminate DBE Work and the reasons for doing so. The DBE shall have five (5) days to respond to the Contractor's notice. The DBE's response shall either support the termination or advise the Engineer and the Contractor of the reasons it objects to the termination of its subcontract.

If the request for termination is approved, the Contractor is required to substitute with another DBE to perform at least the same amount of work as the DBE that was terminated (or provide documentation of GFE). A plan to replace the COA DBE Commitment amount shall be submitted to the Engineer within 2 days of

the approval of termination. The plan to replace the Commitment shall provide the same detail as that required in the DBE Utilization Certification.

As mentioned above, the Contractor must have good cause to terminate a COA DBE.

Good cause typically includes situations where the DBE ~~S~~subcontractor is unable or unwilling to perform the work of its subcontract. Good cause may exist if:

- The DBE fails or refuses to execute a written contract.
- The DBE fails or refuses to perform the Work of its subcontract in a way consistent with normal industry standards.
- The DBE fails or refuses to meet the Contractor's reasonable nondiscriminatory bond requirements.
- The DBE becomes bankrupt, insolvent, or exhibits credit unworthiness.
- The DBE is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law.
- The DBE is ineligible to receive DBE credit for the type of work involved.
- The DBE voluntarily withdraws from the project and provides written notice of its withdrawal.
- The DBE's work is deemed unsatisfactory by the Engineer and not in compliance with the Contract.
- The DBE's owner dies or becomes disabled with the result that the DBE is unable to complete its Work on the Contract.

Good cause does not exist if:

- The Contractor seeks to terminate a COA DBE so that the Contractor can self-perform the Work.
- The Contractor seeks to terminate a COA DBE so the Contractor can substitute another DBE contractor or non-DBE contractor after Contract Award.
- The failure or refusal of the COA DBE to perform its Work on the subcontract results from the bad faith or discriminatory action of the Contractor (e.g., the failure of the Contractor to make timely payments or the unnecessary placing of obstacles in the path of the DBE's Work).

**Decertification**

When a DBE is "decertified" from the DBE program during the course of the Contract, the participation of that DBE shall continue to count as DBE participation as long as the subcontract with the DBE was executed prior to the decertification notice. The Contractor is obligated to substitute when a DBE does not have an executed subcontract agreement at the time of decertification.

**Consequences of Non-Compliance**

**Breach of Contract**

Each contract with a Contractor (and each subcontract the Contractor signs with a ~~S~~subcontractor) must include the following assurance clause:

The Contractor, subrecipient, or ~~S~~subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

(1) Withholding monthly progress payments;

(2) Assessing sanctions;

(3) Liquidated damages; and/or

(4) Disqualifying the Contractor from future bidding as non-responsible.

**Notice**

If the Contractor or any ~~S~~subcontractor, Consultant, Regular Dealer, or service provider is deemed to be in non-compliance, the Contractor will be informed in writing, by certified mail by the Engineer that sanctions will be imposed for failure to meet the UDBE COA Commitment and/or submit documentation of good faith efforts. The notice will state the specific sanctions to be imposed which may include impacting a Contractor or other entity's ability to participate in future contracts.

**Sanctions**

If it is determined that the Contractor's failure to meet all or part of the DBE COA Commitment is due to the Contractor's inadequate good faith efforts throughout the life of the Contract, including failure to submit timely, required Good Faith Efforts information and documentation, the Contractor may be required to pay DBE penalty equal to the amount of the unmet Commitment, in addition to the sanctions outlined in Section 1-07.11(5).

**Payment**

Compensation for all costs involved with complying with the conditions of this Specification and any other associated DBE requirements is included in payment for the associated Contract items of Work, except otherwise provided in the Specifications.

1-07.11.OPT4.FR1

***(~~June 6, 2022~~October 3, 2022)***

***Special Training Provisions***

**General Requirements**

The Contractor's equal employment opportunity, affirmative action program shall include the requirements set forth below. The Contractor shall provide on-the-job training aimed at developing trainees to journey-level status in the trades involved. The number of training hours shall be *** $$1$$ ***. Trainees shall not be assigned less than 400 hours per individual per Contract. The Contractor may elect to accomplish training as part of the work of a subcontractor, however, the Prime Contractor shall retain the responsibility for complying with these Special Provisions (achieving the training goal). When the Contractor's training plan includes trainees for ~~S~~subcontractors or lower-tier ~~S~~subcontractors, this special provision shall be included in the subcontract.

**Trainee Approval**

The Contractor shall make every effort to employ/enroll minority and women trainees to the extent such persons are available within a reasonable recruitment area. This training provision is not intended and shall not be used to discriminate against any applicant for training, whether that person is a minority, woman or otherwise. A non-minority male trainee or apprentice may be approved provided the following requirements are met:

1. The Contractor is otherwise in compliance with the contract's Equal Employment Opportunity (EEO) and On-the-Job Training (OJT) requirements and provides documentation of the efforts taken to fill the specific training position with either minorities or females

2. or, if not otherwise in compliance, furnishes evidence of his/her systematic and direct recruitment efforts in regard to the position in question and in promoting the enrollment and/or employment of minorities and females in the craft which the proposed trainee is to be trained

3. and the Contractor has made a good faith effort towards recruiting of minorities and women. As a minimum good faith efforts shall consist of the following:

    a. Distribution of written notices of available employment opportunities with the Contractor and enrollment opportunities with its unions. Distribution should include but not be limited to; minority and female recruitment sources, WSDOT's OJT Support Services Coordinator, and minority and female community organizations.

    b. Records documenting the Contractor's efforts and the outcome of those efforts, to employ minority and female applicants and/or refer them to unions.

    c. Records reflecting the Contractor's efforts in participating in developing minority and female on-the-job training opportunities, including upgrading programs and apprenticeship opportunities.

d. Distribution of written notices to unions and training programs disseminating the Contractor's EEO policy and requesting cooperation in achieving EEO and OJT obligations (and their written responses). For assistance in locating trainee candidates, the Contractor may call WSDOT's OJT Support Services Coordinator at (360) 705-7090or email ojtssinfo@wsdot.wa.gov.

No employee shall be employed as a trainee in any classification in which the employee has successfully completed a training course leading to journey-level worker status or in which the employee has been employed as a journey-level worker. The Contractor's records shall document the methods for determining the trainee's status and findings in each case. When feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.

For the purpose of this specification, acceptable training programs are those employing trainees/apprentices registered with the following:

1. Washington State Department of Labor & Industries — State Apprenticeship Training Council (SATC) approved apprenticeship agreement:

    a. Pursuant to RCW 49.04.060, an apprenticeship agreement shall be;

        i. an individual written agreement between an employer and apprentice
        ii. a written agreement between (an employer or an association of employers) and an organization of employees describing conditions of employment for apprentices
        iii. a written statement describing conditions of employment for apprentices in a plant where there is no bona fide employee organization.

    All such agreements shall conform to the basic standards and other provisions of RCW Chapter 49.04.

2. Apprentices must be registered with U.S. Department of Labor — Apprenticeship Training, Employer, and Labor Services (ATELS) approved program.

    Or

3. Non-ATELS/SATC programs that have been submitted to the Contracting Agency for approval by the FHWA for the specific project.

**Obligation to Provide Information**

Upon starting a new trainee, the Contractor shall furnish the trainee a copy of the approved program the Contractor will follow in providing the training. Upon completion of the training, the Contractor shall provide the Contracting Agency with a certification showing the type and length of training satisfactorily completed by each trainee.

**Training Program Approval**

The Training Program shall meet the following requirements:

1. The Training Program (DOT Form 272-049) must be submitted to the Engineer for approval **prior to commencing contract work** and shall be resubmitted when modifications to the program occur.

2. The minimum length and type of training for each classification will be as established in the training program as approved by the Contracting Agency.

3. The Training Program shall contain the trades proposed for training, the number of trainees, the hours assigned to the trade and the estimated beginning work date for each trainee.

4. Unless otherwise specified, Training Programs will be approved if the proposed number of training hours equals the training hours required by contract and the trainees are not assigned less than 400 hours each.

5. After approval of the training program, information concerning each individual trainee and good faith effort documentation shall be submitted on (DOT Form 272-050.)

6. In King County, laborer trainees or apprentices will not be approved on contracts containing less than 2000 training hours as specified in this Section. In King County, no more than twenty percent (20%) of hours proposed for trainees or apprentices shall be in the laborer classification when the contract contains 2000 or more hours of training as specified in this Section. Trainees shall not be assigned less than 400 hours per contract.

7. Flagging programs will not be approved. Other programs that include flagging training will only be approved if the flagging portion is limited to an orientation of not more than 20 hours.

8. It is the intention of these provisions that training is to be provided in the construction crafts rather than clerk-typists or secretarial-type positions. Training is permissible in lower level management positions such as office engineers, estimators, timekeepers, etc., where the training is oriented toward construction applications. Some off-site training is permissible as long as the training is an integral part of an approved training program.

9. It is normally expected that a trainee will begin training on the project as soon as feasible after start of work, utilizing the skill involved and remain on the project as long as training opportunities exist in the work classification or the trainee reaches journey-level status. It is not required that all trainees be on board for the entire length of the contract. The number trained shall be determined on the basis of the total number enrolled on the contract for a significant period.

10. Wage Progressions: Trainees will be paid at least the applicable ratios or wage progressions shown in the apprenticeship standards published by the

Washington State Department of Labor and Industries. In the event that no training program has been established by the Department of Labor and Industries, the trainee shall be paid in accordance with the provisions of RCW 39.12.021, which reads as follows:

> Apprentice workers employed upon public works projects for whom an apprenticeship agreement has been registered and approved with the State Apprenticeship Council pursuant to RCW 49.04, must be paid at least the prevailing hourly rate for an apprentice of that trade. Any worker for whom an apprenticeship agreement has not been registered and approved by the State Apprenticeship Council shall be considered to be a fully qualified journey-level worker, and, therefore, shall be paid at the prevailing hourly rate for journey-level worker.

**Compliance**

In the event that the Contractor is unable to accomplish the required training hours but can demonstrate a good faith effort to meet the requirements as specified, then the Contracting Agency will adjust the training goals accordingly.

**Noncompliance and Sanctions**

When a contractor violates EEO provisions of the contract, the Contracting Agency may impose damages in accordance with WSDOT's Equal Opportunity Compliance Program and the FHWA 1273. These damages consist of additional administrative costs including, but not limited to, the inspection, supervision, engineering, compliance, and legal staff time and expenses necessary for investigating, reporting, and correcting violations, as well as loss of federal funding, if any. Damages attributable to a contractor's violations of the EEO provisions may be deducted from progress payments due the Contractor. Before any money is withheld, the Contractor will be provided with a notice of the basis of the violations, the amount to be withheld and provided an opportunity to respond. The monetary value of the sanction will be calculated on a case-by-case basis and based on the damages incurred by the Contracting Agency.

The Contracting Agency's decision to recover damages for an EEO violation does not limit its ability to suspend or revoke the contractor's pre-qualification status or seek other remedies as allowed by federal or state law. In appropriate circumstances, the Contracting Agency may also refer the Contractor to other state or federal authorities for additional sanctions.

**Requirements for Non ATELS/SATC Approved Training Programs**

Contractors who are not affiliated with a program approved by ATELS or SATC may have their training program approved (by FHWA) provided that the program is submitted for approval on DOT Form 272-049, and the following standards are addressed and incorporated in the Contractor's program:

1. The program establishes minimum qualifications for persons entering the training program.

2. The program shall outline the work processes in which the trainee will receive supervised work experience and training on-the-job and the allocation of the approximate time to be spent in each major process. The

program shall include the method for recording and reporting the training completed shall be stated.

3. The program shall include a numeric ratio of trainees to journey-level worker consistent with proper supervision, training, safety, and continuity of employment. The ratio language shall be specific and clear as to application in terms of job site and workforce during normal operations (normally considered to fall between 1:10 and 1:4).

4. The terms of training shall be stated in hours. The number of hours required for completion to journey-level worker status shall be comparable to the apprenticeship hours established for that craft by the SATC. The following are examples of programs that are currently approved:

| CRAFT | HOURS |
|---|---|
| Laborer | 4,000 |
| Ironworker | 6,000 |
| Carpenter | 5,200-8,000 |
| Construction Electrician | 8,000 |
| Operating Engineer | 6,000-8,000 |
| Cement Mason | 5,400 |
| Teamster | 2,100 |

5. The method to be used for recording and reporting the training completed shall be stated.

**Measurement**

The Contractor may request that the total number of “training” hours for the contract be increased subject to approval by the Contracting Agency. This reimbursement will be made even though the Contractor receives additional training program funds from other sources, provided such other sources do not prohibit other reimbursement. Reimbursement to the Contractor for off-site training as indicated previously may only be made when the Contractor does one or more of the following and the trainees are concurrently employed on a Federal-aid project:

1. contributes to the cost of the training,

2. provides the instruction to the trainee,

3. pays the trainee’s wages during the off- site training period.

Reimbursement will be made upon receipt of a certified invoice that shows the related payroll number, the name of trainee, total hours trained under the program, previously paid hours under the contract, hours due this estimate, and dollar amount due this estimate. The certified invoice shall show a statement indicating the Contractor’s effort to enroll minorities and women when a new enrollment occurs. If a trainee is participating in a SATC/ATELS approved apprenticeship program, a copy of the certificate showing apprenticeship registration must accompany the first invoice on which the individual appears. Reimbursement for training occurring prior to approval of the training program will be allowed if the Contractor verbally notifies the Engineer of this occurrence at the time the apprentice/trainee commences work.

A trainee/apprentice, regardless of craft, must have worked on the contract for at least 20 hours to be eligible for reimbursement.

Training hours that are not in compliance with the approved training plan will not be measured.

**Payment**
The Contractor will be reimbursed under the item "Training" per hour for each hour of approved training provided under the Contract.

1-07.11.OPT6.FR1
***(~~June 29, 2022~~October 3, 2022)***
***Small and Veteran-Owned Business Enterprises (SVBE) and Minority and Women's Business Enterprises (MWBE) Participation***

**General Statement**
The participation of minority, small, veteran-owned, and women business enterprises are an important strategic objective for the State of Washington. Contractors shall not create barriers to open and fair opportunities for all businesses, including MWBEs and SVBEs, to participate in the Work on this Contract.

**SVBE and MWBE Abbreviations and Definitions**
**Broker** - A business firm that provides a bona fide service, that assists in the procurement of personnel, facilities, equipment, materials, or supplies required for the performance of the Contract; or persons/companies who arrange or expedite transactions (i.e., arranging a transaction or service but does not provide a work product or enhancement).

**Commercially Useful Function (CUF)** – A firm performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by performing, managing, and supervising the work involved. To perform a commercially useful function, the firm must also be responsible, with respect to materials and supplies used on the contract, for ordering, negotiating price, paying for, determining quality and quantity, and installing (where applicable) for the material itself.

The SVBE or MWBE firm does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or Project through which the funds are passed to obtain the appearance of SVBE or MWBE participation.

**Good Faith Efforts** – Efforts to achieve either the SVBE Condition of Award (COA) goals at the time of Bid or the SVBE Commitments in the SVB Plan at the completion of the project. The efforts will demonstrate, by their scope, intensity, and appropriateness to the objective, that the bidder can reasonably be expected to fulfill the program requirement.

**Manufacturer (SVBE or MWBE)** – An SVBE or MWBE firm that operates or maintains a factory or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract. A Manufacturer shall produce finished goods or products from raw or unfinished material or purchase and substantially alters goods and materials to make them suitable for construction use before reselling them.

**Minority Business Enterprise (MBE)** – A minority owned business meeting the requirements of RCW 39.19 and WAC 326-20 and certified by the Washington State Office of Minority & Women's Business Enterprises.

**MWBE Goals (Voluntary)** – Efforts to provide MWBE opportunities are encouraged in accordance with these Specifications and RCW 39.19.

Goals for voluntary MWBE participation have been established as a percentage of Contractor's total Bid amount.

The Contracting Agency has established the following two voluntary goals:

| | |
|---|---|
| Minority | 10% |
| Women | 6% |

**Small Business Enterprise (SBE)** – Any business that is owned and operated independently from all other businesses, has either fifty or fewer employees or has a gross revenue of less than seven million dollars annually as listed on federal tax returns or with the Washington State Department of Revenue, and is self-certified through the Washington State Department of Enterprise Services and listed as a "small, mini or micro business" in its certification.

Small businesses can be located by searching the directories at:

https://pr-webs-vendor.des.wa.gov/

Information on how to search the WEBS directories is located at:

https://www.des.wa.gov/services/contracting-purchasing/doing-business-state/webs-registration-search-tips

**SVBE COA Goals** – At the time of bid, this is the minimum dollar amount of participation that the Bidder must commit to by submission of the SVB Plan and/or by Good Faith Effort (GFE). Each goal is expressed as a percentage of the Bid amount (as shown on the Proposal). There are two separate COA Goals that must be met: one for Small Business Enterprises and one for Veteran-Owned Businesses.

The Contracting Agency has established the following two enforceable COA Goals:

| | |
|---|---|
| Small Business Enterprise (SBE) Goal | *** $$1$$ *** |
| Veteran-Owned Business (VOB) Goal | *** $$2$$ *** |

**SVBE Commitment** – The dollar amount and scope of work the Bidder indicates on each line of their Small and Veteran-Owned Business Plan (SVB Plan) (WSDOT Form 226-018) for each SBE or VOB firm. These Commitments will be incorporated into the Contract and shall be considered Contract requirements.

**Subcontractor (SVBE or MWBE)** – An individual, partnership, firm, corporation, or joint venture who meet the definition of a Minority, Small Business, Women or Veteran-Owned Business and who is sublet part of the Contract.

**Supplier (SVBE or MWBE)** – A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Supplier, the SVBE or MWBE firm must be an established business that engages in as its principal business and in its own name the purchase and sale of the products in question. A Supplier in such items as steel, cement, gravel, stone, and petroleum products need not own, operate, or maintain a place of business if it both owns and operates distribution equipment for the products. Any supplementing of suppliers' own distribution equipment shall be by long-term formal lease agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions shall not be regarded as Suppliers within the meaning of this definition.

**Veteran-Owned Business (VOB)** – A veteran-owned business meeting the requirements of RCW 43.60A.010 and listed at: https://pr-webs-vendor.des.wa.gov/.

Information on how to search the WEBS directories is located at:

https://www.des.wa.gov/services/contracting-purchasing/doing-business-state/webs-registration-search-tips

**Women Business Enterprise (WBE)** – A women owned business meeting the requirements of RCW 39.19 and WAC 326-20 and certified by the Washington State Office of Minority & Women's Business Enterprises.

**Procedures Prior to Award**

**SVBE Goals (Enforceable)**

**SVBE COA Goals**

The Contractor shall submit their SVB Plan (WSDOT Form 226-018) to demonstrate attainment of the SBE and VOB COA Goals. SBE and VOB Goals are independent. Work shown in the SVB Plan shall not apply to both SBE and VOB Goals. If the Contractor cannot meet these goals, a Good Faith Effort (GFE) is required.

Demonstrating compliance with the SBE and VOB COA Goals is a Condition of Award of this Contract. Failure to comply with these requirements may result in the Bid being found nonresponsive.

**SVBE Commitment**

The Contractor is required to utilize each SBE or VOB firm identified on their SVB Plan (WSDOT Form 226-018) for each scope of work and dollar amount listed. A firm that is registered as both a SBE and VOB may split the total commitment between VOB and SBE to attain the SBE and VOB COA Goals.

**SVB Plan**

To be eligible for award of the Contract, the Bidder shall properly complete and submit a Small and Veterans-Owned Business Plan. (SVB Plan). The SVB Plan shall be submitted on WSDOT Form 226-018. The Bidder's SVB Plan shall be submitted as specified in Section 1-02.9. The SVB Plan must clearly demonstrate how the Bidder intends to meet both the SBE and VOB COA Goals.

An SVB Plan (WSDOT Form 226-018) and instructions on how to properly fill out the form are included in the Proposal package.

When the Bidder elects to utilize force account Work to meet the SBE or VOB COA Goals, as shown on its SVB Plan, the Bidder shall not commit more than 50% of the force account bid item amount.

In the event of arithmetic errors in completing the SVB Plan, the amount listed to be applied towards the SBE or VOB Goals for each SVBE firm shall govern and the SVBE total amount shall be adjusted accordingly.

To be eligible for inclusion in the SVB Plan, SBE or VOB firms committed must be certified as described herein prior to the due date for bids on the Contract.

**Written Confirmation**

Prior to the award of the Contract and as specified in Section 1-02.9, the Contractor shall submit Subcontractor Written Confirmation Form (WSDOT Form 226-017) documentation from each SVBE firm listed on the SVB Plan confirming their participation on the Contract for each amount listed in the SVB Plan.

**Selection of Successful Bidder/Good Faith Efforts (GFE)**

The Contracting Agency will consider as non-responsive and will reject any Bid Proposal submitted that does not contain a properly completed SVB Plan that shows compliance with the SBE and VOB COA goals.

Compliance with the SVBE COA Goals requirements may be accomplished in one of two ways:

1. <u>By meeting the SVBE COA Goals</u>
   Submission of the SVB Plan, showing the Bidder has obtained enough SBE or VOB participation to meet or exceed each of the SVBE COA Goals

2. <u>By documentation that the Bidder made adequate GFE to meet the SVBE COA Goals</u>

The Bidder may demonstrate a GFE in whole or part through GFE documentation ONLY IN THE EVENT a Bidder's efforts to solicit sufficient SVBE participation have been unsuccessful. The Bidder must supply GFE documentation in addition to the SVB Plan.

GFE documentation shall be submitted as specified in Section 1-02.9.

**Document Submittal Requirements**

The Contracting Agency will review the GFE documentation and will determine if the Bidder made an adequate GFE.

**GFE Documentation Prior to Award**

GFE is evaluated when determining award of a Contract that has SVBE COA Goals. The efforts employed by the Bidder should be commercially reasonable and demonstrate they are actively and aggressively trying to fulfill the

established SVBE COA Goals. Mere pro forma efforts are not commensurate with a GFE.

The following is a list of types of actions, which would be considered as part of the Bidder's GFE to achieve SVBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases:

1. Soliciting through all reasonable and available means (e.g., attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified SVBE firms who have the capability to perform the Work of the Contract. The Bidder must solicit this interest within sufficient time to allow the SVBE to respond to the solicitation. The Bidder must determine with certainty if the SVBE firms are interested by taking appropriate steps to follow up initial solicitations.

2. Selecting portions of the Work to be performed by SVBEs to increase the likelihood that the SVBE COA Goals will be achieved. This includes, where appropriate, breaking out Contract Work items into economically feasible units to facilitate SVBE participation, even when the Bidder might otherwise prefer to perform these Work items with its own forces.

3. Providing interested SVBEs with adequate information about the Plans, Specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation.

    a. Negotiating in good faith with interested SVBEs. It is the Bidder's responsibility to make a portion of the Work available to SVBEs and to select those portions of the Work or material needs consistent with the available SVBEs, to facilitate SVBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of SVBEs that were considered; a description of the information provided regarding the Plans and Specifications for the Work selected for subcontracting; and evidence as to why additional agreements could not be reached for SVBE firms to perform the Work.

    b. A Bidder using good business judgment would consider a number of factors in negotiating with ~~S~~subcontractors, including SVBE ~~S~~subcontractors, and would take a firm's price and capabilities as well as the SVBE COA Goals into consideration. However, the fact that there may be some additional costs involved in finding and using SVBEs is not in itself sufficient reason for a Bidder's failure to meet the SVBE COA Goals, as long as such costs are reasonable. Also, the ability or desire of a Bidder to perform the Work of a Contract with its own organization does not relieve the Bidder of the responsibility to make a GFE. Bidders are not, however, required to accept higher quotes from SVBE firms if the price difference is excessive or unreasonable.

4. Not rejecting SVBE firms as being unqualified without sound reasons based on a thorough investigation of their capabilities. The Bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the Bidder's efforts to meet the SVBE COA Goals.

5. Making efforts to assist interested SVBE firms in obtaining bonding, lines of credit, or insurance as required by the recipient or Bidder.

6. Making efforts to assist interested SVBE firms in obtaining necessary equipment, supplies, materials, or related assistance or services.

7. Effectively using the services of available organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of SVBE firms.

8. Documentation of GFE must include copies of each SVBE and non-SVBE ~~S~~subcontractor quotes submitted to the Bidder when a non-SVBE ~~S~~subcontractor is selected over a SVBE for Work on the Contract.

**Administrative Reconsideration of GFE Documentation Prior to Award**

A Bidder has the right to request reconsideration if the GFE documentation submitted with their Bid was determined to be inadequate:

1. The Bidder must request within 48 hours of notification of being nonresponsive or forfeit the right to reconsideration.

2. The reconsideration decision on the adequacy of the Bidder's GFE documentation shall be made by an official who did not take part in the original determination.

3. Only original GFE documentation submitted as a supplement to the Bid shall be considered. The Bidder shall not introduce new documentation at the reconsideration hearing.

4. The Bidder shall have the opportunity to meet in person with the official for the purpose of setting forth the Bidder's position as to why the GFE documentation demonstrates a sufficient effort.

5. The reconsideration official shall provide the Bidder with a written decision on reconsideration within five working days of the hearing explaining the basis for their finding and at least 48 hours prior to award.

**Procedures After Execution**

**MWBE Plan**

The Contractor shall submit a MWBE Participation Plan as a Type 2 Working Drawing within 21 days after execution. The plan shall include the information identified in the guidelines at:

https://wsdot.wa.gov/sites/default/files/2021-10/OEOWSDOTParticpationPlanDraftingGuidelines.pdf

The Contractor shall submit an updated MWBE Participation Plan annually on the date the original Participation Plan was submitted. The Contractor shall provide a 30-calendar day review period for WSDOT review and comment on all MWBE Participation Plan submittals.

**Commercially Useful Function (CUF)**

For SVBE and MWBE ~~S~~subcontractor and lower tier subcontractors, a valid subcontract must fully describe the Scope of Work committed to be performed by the firm. The subcontract shall incorporate requirements of the Contract. Subcontracts of all tiers, including lease agreements, shall be made available upon request.

The Contractor may only take credit for the payments made for work performed by a SVBE or MWBE that is determined to be performing a CUF. Payment must be commensurate with the work performed by the SVBE or MWBE. A SVBE or MWBE that does not perform all of its responsibilities on a contract has not performed a CUF and their work cannot be counted toward SVBE or MWBE Goals.

Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be readily available for review by the Engineer.

For a SVBE or MWBE traffic control company to be considered to be performing a CUF, the firm must be in control of its work inclusive of supervision. The firm shall employ a Traffic Control Supervisor who is directly involved in the supervision of the traffic control employees and services.

**Crediting Participation**

Participation will be evaluated to determine if the Contractor has met both the SVBE Commitments and MWBE Goals at completion of the project.

All non-COA SVBE firms and MWBE firms shall be certified before the subcontract on which they are participating is executed.

When a SVBE or MWBE firm loses its certification, the participation of that SVBE or MWBE firm shall continue to count as SVBE or MWBE participation as long as the subcontract with the SVBE or MWBE firm was executed prior to the date the SVBE or MWBE firm lost its certification.

Only take credit for that portion of the total dollar value of the work that is equal to the distinct, clearly defined portion of the Work that the SVBE or MWBE performs with its own forces. The value of work performed by the SVBE or MWBE includes the cost of supplies and materials purchased by the SVBE or MWBE and equipment leased by the SVBE or MWBE, for its work on the Contract. Supplies, materials, or equipment obtained by a SVBE or MWBE that are not utilized or incorporated in the Contract work by the SVBE or MWBE will not be eligible for SVBE or MWBE credit.

The supplies, materials, and equipment purchased or leased from the Prime Contractor or its affiliate, including any Contractor's resources available to SVBE or MWBE subcontractors at no cost, shall not be credited.

SVBE or MWBE credit will not be given in instances where the equipment lease includes the operator. The SVBE or MWBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the SVBE or MWBE, but payment is deducted from the Contractor's payment to the SVBE or MWBE is not allowed.

**SVBE Commitment**
Payments to each SBE or VOB firm shall demonstrate that the Commitments amounts have been met as shown on the SVB Plan.

Participation is credited to the SVBE Commitments upon payment to the SBE or VOB.

**MWBE Goals**
Amounts paid to a MWBE will be credited to every MWBE Goal for which they are eligible. Participation may be credited for more than one category.

Participation is credited to the MWBE Goals upon payment to the eligible MWBE.

**Prime Contractor Credit for Participation (SVBE or MWBE)**
Only take credit for that portion of the Work performed that the SVBE or MWBE Prime Contractor did not sublet to other firms.

**Subcontractor Credit for Participation**
When the Prime contractor, ~~S~~subcontractor or lower tier subcontractor are part of a SVB or MWBE Plan, the following apply:

1. If a Prime Contractor, ~~S~~subcontractor, or lower tier subcontractor subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the SBE or VOB Commitments based on the following conditions:

    a. If a SBE Prime Contractor, ~~S~~subcontractor, or lower tier subcontractor subcontracts to a SBE the value can count toward the SBE Commitment.

    b. If a SBE Prime Contractor, ~~S~~subcontractor or lower tier subcontractor subcontracts to a non-SBE, the value cannot count toward the SBE Commitment.

    c. If a VOB Prime Contractor, ~~S~~subcontractor, or lower tier subcontractor subcontracts with a VOB the value can count toward the VOB Commitment.

d. If a VOB Prime Contractor, ~~S~~subcontractor, or lower tier subcontractor subcontracts with a non-VOB the value cannot count toward the VOB Commitment.

e. Work subcontracted to a non-SVBE does not count towards the SVBE Commitments.

2. If a Prime Contractor, ~~S~~subcontractor, or lower tier subcontractor subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the MWBE Goals based on the following conditions:

a. Work subcontracted to a non-MWBE cannot be counted toward the MWBE goals.

b. Work subcontracted to another MWBE can be counted toward every MWBE goal for which the firm holds a certification.

c. Work subcontracted by a MWBE firm who also is a SVBE, will be credited toward the SVBE Commitment as described in section 1.

d. Work subcontracted to a non-MWBE cannot be counted toward the MWBE goals.

**Broker Credit for Participation**

When a SVBE or MWBE participates as a broker (i.e., arranging a transaction or service but does not provide a work product or enhancement), only the dollar value of the reasonable fee may count toward the SVBE Commitments or MWBE Goals. For purposes of SVBE or MWBE Brokers, a reasonable fee shall not exceed 5 percent of the total cost of the goods or services brokered.

**Manufacturer and Supplier Credit for Participation**

If materials or supplies are obtained from a SVBE or MWBE Manufacturer, one hundred percent (100%) of the cost of materials or supplies can count toward the SVBE Commitments or MWBE Goals.

One hundred percent (100%) of the cost of materials or supplies purchased from a SVBE or MWBE Supplier may be credited toward meeting the SVBE Commitments or MWBE Goals. If the role of the SVBE or MWBE Supplier is determined to be that of a pass-through, then no credit will be given for its services. If the role of the SVBE or MWBE Supplier is determined to be that of a Broker, then credit shall be limited to the fee or commission it receives for its services, subject to the provision listed in “Broker Credit for Participation.”

**Force Account Work**

One hundred percent (100%) of the actual amounts paid to a SVBE or MWBE shall count toward the SVBE Commitments or MWBE Goals.

**Service Provider Credit for Participation**

When a SVBE or MWBE participates as a service provider or consultant and provides a bona fide service such as professional, technical, consultant, or managerial services, 100% of the total cost counts toward the SVBE Commitments or MWBE Goals if the firm performs a CUF.

**Trucking Credit for Participation**

SVBE or MWBE trucking firm participation may only be credited as participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier. In situations where the firm's work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine credit for hauling.

The SVBE or MWBE trucking firm must own and operate at least one licensed, insured, and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The firm receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.

The SVBE or MWBE firm may lease additional trucks from another SVBE or MWBE firm. The Work that a SVBE or MWBE trucking firm performs with trucks it leases from other certified trucking firms qualify for 100% credit.

The trucking Work subcontracted to any non-SVBE or MWBE trucking firm will not receive credit for Work done on the project. The SVBE or MWBE trucking firm may lease trucks from a non-SVBE or MWBE truck leasing company but can only receive credit as SVBE or MWBE participation if the SVBE or MWBE firm uses its own employees as drivers.

SVBE or MWBE credit for a truck broker is limited to the fee/commission that the firm receives for arranging transportation services, subject to the provision listed in "Broker Credit for Participation."

**Reporting Participation for Credit**

The Contractor and any ~~S~~subcontractor, supplier, service provider, broker, or manufacturer of any tier that utilize SVBE or MWBE firms to perform Work on the project, shall maintain appropriate records that will enable the Engineer to verify SVBE and MWBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this contract. The Contractor shall report amounts paid in accordance with Section 1-08.1 in order to receive credit for participation.

**Changes in SVBE Commitment**

The Contractor shall utilize the SVBE Commitment (COA) firms to perform all of the Work and supply all of the materials for which each is committed unless otherwise approved in writing by the Engineer. Any reduction in the Work committed to any SVBE Commitment (COA) firm, or performance of Work previously designated for a SVBE Commitment (COA) firm by any other firm or

by the Contractor's own forces, shall be considered a termination, and requires the prior written consent of the Engineer. Termination requests shall be submitted in writing to the Engineer, who shall either grant or deny such request in writing. No termination shall become effective unless and until the Engineer provides written approval. Changes to SVBE Commitments will be documented in accordance with Section 1-04.4 and shall be considered amendments to the Contractor's SVB Plan.

**Approval of SBE Termination**

Termination of a SVBE Commitment (COA) firm is only allowed in whole or in part for good cause and with written approval of the Engineer. If a SVBE Commitment (COA) firm is terminated without the written approval of the Engineer, the Contractor shall not be entitled to payment for Work or material committed to, but not performed/supplied by, the SVBE Commitment (COA) firm. In addition, the Contractor may be subject to the remedies set forth elsewhere in this Special Provision.

Prior to requesting approval to terminate a SVBE Commitment (COA) firm, the Contractor shall give notice in writing to the SVBE Commitment (COA) firm with a copy to the Engineer of its intent to request to terminate SVBE Commitment (COA) Work and shall cite the cause for doing so, with supporting documentation. The SVBE Commitment (COA) firm shall have five (5) days to respond to the Contractor's notice. The SVBE Commitment (COA) firm's response shall either support the termination or advise the Engineer and the Contractor of the reasons it objects to the termination.

**Cause for Termination**

The Contractor must have good cause to terminate a SVBE Commitment (COA) firm. Good cause includes situations where the SVBE Commitment (COA) firm is unable or unwilling to perform the work of its subcontract. Good cause may exist if:

1. The SVBE Commitment (COA) firm fails or refuses to execute a written contract.

2. The SVBE Commitment (COA) firm fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards.

3. The SVBE Commitment (COA) firm fails or refuses to meet the Contractor's reasonable nondiscriminatory bond requirements.

4. The SVBE Commitment (COA) firm becomes bankrupt, insolvent, or exhibits credit unworthiness.

5. The SVBE Commitment (COA) firm is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law.

6. The SVBE Commitment (COA) firm is ineligible to receive SVBE COA credit for the type of work involved.

7. The SVBE Commitment (COA) firm voluntarily withdraws from the project and provides written notice of its withdrawal.

8. The SVBE Commitment (COA) firm's work is deemed unsatisfactory by the Engineer and not in compliance with the Contract.

9. The SVBE Commitment (COA) firm's owner dies or becomes disabled with the result that the SVBE Commitment (COA) firm is unable to complete its work on the Contract.

Good cause does not exist if:

1. The Contractor seeks to terminate a SVBE Commitment (COA) firm so that the Contractor can self-perform the work.

2. The Contractor seeks to terminate a SVBE Commitment (COA) firm so the Contractor can substitute another SVBE firm or non-SVBE firm after Contract Award.

3. The failure or refusal of the SVBE Commitment (COA) firm to perform its work on the subcontract results from the bad faith or discriminatory action of the Contractor (e.g., the failure of the Contractor to make timely payments or the unnecessary placing of obstacles in the path of the SVBE Commitment (COA) firm's Work).

**Owner-Initiated Changes**
In instances where the Engineer makes changes that result in changes to Work that was part of a SVBE Commitment, the Contractor may be directed to substitute for the Work. The Contractor shall notify the Engineer if any owner-initiated change impacts the SVBE commitment, prior to any changes to the Contract. Changes will be addressed in accordance with Section 1-04.4.

**Contractor-Initiated Changes**
The Contractor cannot change the scope or reduce the amount of Work as part of a SVBE Commitment without good cause. Reducing a SVBE Commitment is viewed as a partial termination, and therefore subject to the termination procedures above.

**Quantity Underruns**
If a variation in estimated quantities occurs that affects a SVBE Commitment, that unmet Commitment will not be considered a termination, provided that the Contractor can demonstrate that the variation in quantities directly impacted the Commitment. The Contractor shall provide such documentation if requested by the Engineer.

The Contractor may be required to substitute other remaining Work to another SVBE firm to meet the dollar amounts committed to in their SVB Plan.

**Good Faith Effort (GFE) Documentation After Execution**
If the Contractor fails to fulfill the SVBE Commitment to in their SVB Plan, a Good Faith Effort shall be submitted for approval. GFE documentation shall follow the requirements for GFE Documentation Prior to Award.

In addition, the GFE shall address the impact of overruns and underruns on the ability of the Contractor to meet the dollar amounts committed to in their SVB Plan. Overruns and underruns may be considered a reason for not attaining the SVBE dollar amounts committed to in their SVB Plan. The GFE shall include enough information for the Engineer to evaluate the impact the overrun or underrun had on the SVBE participation.

**Administrative Reconsideration of GFE Documentation After Execution**
When the Contracting Agency's GFE documentation review determines a GFE has no merit, the Contractor has the right to request reconsideration of the Contracting Agency's determination.

1. The Contractor must request reconsideration within five (5) working days of notification of GFE documentation being deemed inadequate.

2. The reconsideration decision on the adequacy of the Contractor's GFE documentation shall be made by an official who did not take part in the original determination.

3. Only original GFE documentation submitted shall be considered. The Contractor shall not introduce new documentation at the reconsideration hearing.

4. The Contractor shall have the opportunity to meet in person with the official for the purpose of setting forth the Contractor's position as to why the GFE documentation demonstrates a sufficient effort.

5. The reconsideration official shall provide the Contractor with a written decision on reconsideration within five (5) working days of the hearing, explaining the basis for their finding.

**Remedies for Failure to Meet SVBE Requirements**
Upon completion of a project, a Prime Contractor Performance Report will document whether the Contractor met the Commitments in their SVB Plan or GFE. Failure to meet the Commitments in the SVB Plan or provide an acceptable GFE may lead to the following:

1. Suspension of a Contractor's prequalification; and/or

2. Withholding from the Contractor of an amount up to the value of the un-met SBE or VOB Commitments

Failure to utilize the SVBE Commitment (COA) firms listed in the SVB Plan for the Work for which they were listed, unless termination was approved in in writing by the Contracting Agency, will be reflected on the Prime Contractor Performance Report.

**Payment**

Compensation for all costs involved with complying with the conditions of this Special Provision and any other associated SVBE or MWBE requirements are included in payment for the associated Contract items of Work, except otherwise provided in the Specifications.

1-07.11.OPT7.FR1

***(~~September 7, 2021~~October 3, 2022)***

***Federal Small Business Enterprise Participation***

The Federal Small Business Enterprise (FSBE) Program is an element of the Disadvantaged Business Enterprise (DBE) in accordance with the requirements of 49 CFR Part 26.39. Failure to comply with the requirements of this Specification may result in sanctions as provided by the Contract.

**FSBE Abbreviations and Definitions**

**Broker** – A business firm that provides a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for the performance of the Contract; or, persons/companies who arrange or expedite transactions.

**Certified Business Description** – Specific descriptions of work the FSBE is certified to perform, as identified in the Certified Firm Directory, under the Vendor Information page.

**Certified Firm Directory** – A database of all Minority, Women, and Disadvantaged Business Enterprises, including those identified as a FSBE, currently certified by Washington State. The on-line Directory is available to Bidders for their use in identifying and soliciting interest from FSBE firms. The database is located under the Firm Certification section of the Diversity Management and Compliance System web page at: https://omwbe.diversitycompliance.com.

Firms certified by OMWBE as SBE, DBE can be used to fulfill the FSBE mandatory goal on a project.

**Commercially Useful Function (CUF)** – 49 CFR 26.55(c)(1) defines commercially useful function as: "A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a commercially useful function, you must evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the DBE credit claimed for its performance of the work, and other relevant factors."

**FSBE** – A firm certified by OMWBE as meeting Federal requirements of a small business enterprise. All firms on the OMWBE Certified Firm Directory with the designation of SBE or DBE are FSBEs.

**Good Faith Efforts** – Efforts to achieve the FSBE Goal or other requirements of this part which, by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement.

**Manufacturer (FSBE)** – A FSBE firm that operates or maintains a factory or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract. A FSBE Manufacturer shall produce finished goods or products from raw or unfinished material or purchase and substantially alters goods and materials to make them suitable for construction use before reselling them.

**Reasonable Fee (FSBE)** – For purposes of Brokers or service providers a reasonable fee shall not exceed 5% of the total cost of the goods or services brokered.

**Regular Dealer (FSBE)** – A FSBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Regular Dealer, the FSBE firm must be an established regular business that engages in as its principal business and in its own name the purchase and sale of the products in question. A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum products need not own, operate or maintain a place of business if it both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by long-term formal lease agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions shall not be regarded as Regular Dealers within the meaning of this definition.

**FSBE Goal**

The Contracting Agency has established a FSBE Goal for this Contract in the amount of: *** $$1$$ ***

**Crediting FSBE Participation**

All FSBE ~~S~~subcontractors shall be certified before the subcontract on which they are participating is executed.

FSBE participation is only credited upon payment to the FSBE.

The following are some definitions of what may be counted as FSBE participation.

**FSBE Prime Contractor**

Only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the FSBE Prime Contractor performs with its own forces and is certified to perform.

**FSBE Subcontractor**

Only take credit for that portion of the total dollar value of the subcontract that is equal to the distinct, clearly defined portion of the Work that the FSBE performs with its own forces and is certified to perform. The value of work performed by the FSBE includes the cost of supplies and materials purchased by the FSBE and equipment leased by the FSBE, for its work on the contract. Supplies, materials or equipment obtained by a FSBE that are not utilized or incorporated in the contract work by the FSBE will not be eligible for FSBE credit.

The supplies, materials, and equipment purchased or leased from the Contractor or its affiliate, including any Contractor's resources available to FSBE subcontractors at no cost, shall not be credited.

FSBE credit will not be given in instances where the equipment lease includes the operator. The FSBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the FSBE, but payment is deducted from the Contractor's payment to the FSBE is not allowed.

When the subcontractor is a FSBE, the following apply:

1. If a FSBE subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the FSBE Goal only if the lower-tier ~~S~~subcontractor is also a FSBE.

2. Work subcontracted to a non-FSBE does not count towards the FSBE Goal nor FSBE participation.

**FSBE Subcontract and Lower Tier Subcontract Documents**

There must be a subcontract agreement that complies with 49 CFR Part 26 and fully describes the distinct elements of Work committed to be performed by the FSBE.

**FSBE Service Provider**

The value of fees or commissions charged by a FSBE firm behaving in a manner of a Broker, or another service provider for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance specifically required for the performance of the contract will only be credited as FSBE participation, if the fee/commission is determined by the Contracting Agency to be reasonable and the firm has performed a CUF.

**Temporary Traffic Control**

If the FSBE firm is being utilized in the capacity of only "Flagging", the FSBE firm must provide a Traffic Control Supervisor (TCS) and flagger, which are under the direct control of the FSBE. The FSBE firm shall also provide all flagging equipment (e.g. paddles, hard hats, and vests).

If the FSBE firm is being utilized in the capacity of "Traffic Control Services", the FSBE firm must provide a TCS, flaggers, and traffic control items (e.g., cones, barrels, signs, etc.) and be in total control of all items in implementing the traffic control for the project.

**Trucking**

FSBE trucking firm participation may only be credited as FSBE participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier of those materials. In situations where the FSBE's work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine FSBE credit for hauling

The FSBE trucking firm must own and operate at least one licensed, insured and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The FSBE receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.

The FSBE may lease additional trucks from another FSBE firm. The FSBE who leases additional trucks from another FSBE firm receives credit for the value of the transportation services the lessee FSBE provides on the Contract.

The trucking Work subcontracted to any non-FSBE trucking firm will not receive credit for Work done on the project.

The FSBE may lease trucks from a truck leasing company (recognized truck rental center), but can only receive credit towards FSBE participation if the FSBE uses its own employees as drivers.

**FSBE Manufacturer and FSBE Regular Dealer**

One hundred percent (100%) of the cost of the manufactured product obtained from a FSBE manufacturer can count as FSBE participation. If the manufacturer is a FSBE, participation may count towards the FSBE Goal.

Sixty percent (60%) of the cost of materials or supplies purchased from a FSBE Regular Dealer may be credited as FSBE Participation. If the role of the FSBE Regular Dealer is determined to be that of a Broker, then FSBE credit shall be limited to the fee or commission it receives for its services. Regular Dealer status and the amount of credit is determined on a Contract-by-Contract basis. If the regular dealer is a FSBE, participation may count towards the FSBE Goal.

FSBE firms proposed to be used as a Regular Dealer must be approved before being used on a project. The WSDOT Approved Regular Dealer list published on WSDOT's Office of Equal Opportunity (OEO) web site must include the specific project for which approval is being requested. For purposes of FSBE Goal participation, the Regular Dealer must submit the Regular Dealer Status Request form and receive approval prior to providing any equipment or materials or the signing of a purchase order, invoice, or subcontract.

Purchase of materials or supplies from a FSBE which is neither a manufacturer nor a regular dealer, (i.e. Broker) only the fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, can count as FSBE participation provided the fees are not excessive as compared with fees customarily allowed for similar services. Documentation will

be required to support the fee/commission charged by the FSBE. The cost of the materials and supplies themselves cannot be counted toward as FSBE participation.

**Good Faith Effort Documentation**

GFE is evaluated prior to Physical Completion when determining whether the Contractor has satisfied its FSBE Goal.

The Contracting Agency will measure GFE using the guidance in 49 CFR Part 26, Appendix A. The following is a list of the types of actions which may be considered as part of the Contractor's GFE to achieve FSBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

1. Solicited through all reasonable and available means the interest of all certified FSBEs who had the capability to perform the Work of the Contract. The Contractor must have solicited this interest within sufficient time to allow the FSBEs to respond to the solicitation. The Contractor must have determined with certainty that the FSBEs were interested by taking appropriate steps to follow up initial solicitations with potential FSBEs.

2. Selected portions of the Work to be performed by FSBEs in order to increase the likelihood that the FSBE Goal would be achieved. This includes, where appropriate, breaking out contract Work items into economically feasible units to facilitate FSBE participation, even when the Contractor might otherwise prefer to perform these Work items with its own forces.

3. Provided interested FSBEs with adequate information about the Plans, Specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation.

    a. Negotiated in good faith with interested FSBEs. It is the Contractor's responsibility to make a portion of the Work available to FSBE subcontractors and suppliers and to select those portions of the Work or material needs consistent with the available FSBE subcontractors and suppliers, so as to facilitate FSBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of FSBEs that were contacted; a description of the information provided regarding the Plans and Specifications for the Work selected for subcontracting; and evidence as to why additional agreements could not be reached for FSBEs to perform the Work.

    b. A Contractor using good business judgment would consider a number of factors in negotiating with subcontractors, including FSBE subcontractors, and would take a firm's price and capabilities as well as the FSBE Goal into consideration. The fact that there may be some additional costs involved in finding and using FSBEs is not in itself sufficient reason for a Bidder's failure to meet the FSBE Goal, as long as such costs are reasonable. Also, the ability or desire of a Contractor to perform the Work of a Contract with its own organization does not relieve the Contractor of the responsibility to

make Good Faith Efforts. Contractors are not, however, required to accept higher quotes from FSBEs if the price difference was excessive or unreasonable.

4. Not rejecting FSBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The Contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the Contractor's efforts to meet the FSBE Goal.

5. Made efforts to assist interested FSBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.

6. Made efforts to assist interested FSBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.

7. Effectively used the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of FSBEs.

8. Documentation of GFE must include copies of each FSBE and non-FSBE subcontractor quotes submitted to the Bidder when a non-FSBE subcontractor is selected over a FSBE for Work on the Contract.

**Procedures after Execution**

**Commercially Useful Function (CUF)**

The Contractor may only take credit for the payments made for Work performed by a FSBE that is determined to be performing a CUF. Payment must be commensurate with the work actually performed by the FSBE. This applies to all FSBEs performing Work on a project, if the Contractor wants to receive credit for their participation. The Engineer will conduct CUF reviews to ascertain whether FSBEs are performing a CUF. A FSBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The FSBE must be responsible for negotiating price; determining quality and quantity; ordering the material, installing (where applicable); and paying for the material itself. If a FSBE does not perform "all" of these functions on a furnish-and-install contract, it has not performed a CUF and the cost of materials cannot be counted toward FSBE Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be provided prior to the Subcontractor beginning Work. Any use of the Contractor's equipment by a FSBE may not be credited as countable participation.

The FSBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which the funds are passed in order to obtain the appearance of FSBE participation.

In order for a FSBE traffic control company to be considered to be performing a CUF, the FSBE must be in control of its work inclusive of supervision. The FSBE shall employ a Traffic Control Supervisor who is directly involved in the management and supervision of the traffic control employees and services.

The following are some of the factors that the Engineer will use in determining whether a FSBE trucking company is performing a CUF:

- The FSBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on the contract. The owner demonstrates business related knowledge, shows up on site and is determined to be actively running the business.

- The FSBE itself shall own and operate at least one fully licensed, insured, and operational truck used on the Contract. The drivers of the trucks owned and leased by the FSBE must be exclusively employed by the FSBE and reflected on the FSBE's payroll.

- Lease agreements for trucks shall indicate that the FSBE has exclusive use of and control over the truck(s). This does not preclude the leased truck from working for others provided it is with the consent of the FSBE and the lease provides the FSBE absolute priority for use of the leased truck.

- Leased trucks shall display the name and identification number of the FSBE.

**Truck Unit Listing Log**

In addition to the subcontracting requirements of Section 1-08.1, each FSBE trucking firm shall submit supplemental information consisting of a completed Primary UDBE/DBE/FSBE Truck Unit Listing Log (WSDOT Form 350-077) and all Rental/Lease agreements (if applicable). The supplemental information shall be submitted in an electronic format to the Engineer prior to any trucking services being performed for FSBE credit. Incomplete or incorrect supplemental information will be returned for correction. The corrected Primary Truck Unit Listing Log and any Updated Primary Truck Unit Listing Logs shall be submitted and accepted by the Engineer no later than ten calendar days of utilizing applicable trucks. Failure to submit or update the DBE Truck Unit Listing Log may result in trucks not being credited as FSBE participation.

Each FSBE trucking firm shall complete a Daily Truck Unit Listing Log for each day that the FSBE performs trucking services for FSBE credit. The Daily Truck Unit Listing Log forms shall be submitted by Friday of the week after the Work was performed by email to the following email address for the region administering the Contract:

Eastern Region - ERegionOEO@wsdot.wa.gov
North Central Region - NCRegionOEO@wsdot.wa.gov
Northwest Region - NWRegionOEO@wsdot.wa.gov
Olympic Region - ORegionOEO@wsdot.wa.gov
South Central Region - SCRegionOEO@wsdot.wa.gov

Southwest Region - SWRegionOEO@wsdot.wa.gov
Washington State Ferries - FerriesOEO@wsdot.wa.gov

**Joint Checking**

A joint check is a check between a ~~S~~subcontractor and the Contractor to the supplier of materials/supplies. The check is issued by the Contractor as payer to the ~~S~~subcontractor and the material supplier jointly for items to be incorporated into the project. The FSBE must release the check to the supplier, while the Contractor acts solely as the guarantor.

A joint check agreement must be approved by the Engineer and requested by the FSBE involved using the DBE Joint Check Request Form (WSDOT Form #272-053) prior to its use. The form must accompany the FSBE Joint Check Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks.

The approval to use joint checks and the use will be closely monitored by the Engineer. To receive FSBE credit for performing a CUF with respect to obtaining materials and supplies, a FSBE must "be responsible for negotiating price, determining quality and quantity, ordering the material, installing and paying for the material itself." The Contractor shall submit DBE Joint Check Request Form for the Engineer approval prior to using a joint check.

Material costs paid by the Contractor directly to the material supplier are not allowed. If proper procedures are not followed or the Engineer determines that the arrangement results in lack of independence for the FSBE involved, no FSBE credit will be given for the FSBE's participation as it relates to the material cost.

**Prompt Payment**

Prompt payment to all subcontractors shall be in accordance with Section 1-08.1. Prompt payment requirements apply to progress payments as well as return of retainage.

**Subcontracts**

Prior to a FSBE performing Work on the Contract, an executed subcontract between the FSBE and the Contractor shall be submitted to the Engineer. The executed subcontracts shall be submitted by email to the following email address for the region administering the Contract:

Eastern Region – ERegionOEO@wsdot.wa.gov
North Central Region – NCRegionOEO@wsdot.wa.gov
Northwest Region – NWRegionOEO@wsdot.wa.gov
Olympic Region – ORegionOEO@wsdot.wa.gov
South Central Region – SCRegionOEO@wsdot.wa.gov
Southwest Region – SWRegionOEO@wsdot.wa.gov
Washington State Ferries – FerriesOEO@wsdot.wa.gov

**Reporting**

The Contractor and all subcontractors/suppliers/service providers that utilize FSBEs to perform work on the project, shall maintain appropriate records that

will enable the Engineer to verify FSBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this contract.

**Decertification**
When a FSBE is "decertified" from the FSBE program during the course of the Contract, the participation of that FSBE shall continue to count as FSBE participation as long as the subcontract with the FSBE was executed prior to the decertification notice. The Contractor is obligated to substitute when a FSBE does not have an executed subcontract agreement at the time of decertification.

**Sanctions**
If it is determined that the Contractor's failure to meet all or part of the FSBE Goal is due to the Contractor's inadequate good faith efforts throughout the life of the Contract, including failure to submit timely, required Good Faith Efforts information and documentation, the Contractor may be required to pay FSBE penalty equal to the amount of the unmet Goal, in addition to the sanctions outlined in Section 1-07.11(5).

**Payment**
Compensation for all costs involved with complying with the conditions of this Specification and any other associated FSBE requirements is included in payment for the associated Contract items of Work, except otherwise provided in the Specifications.

1-07.11.OPT8.FR1
***(~~June 1, 2017~~October 3, 2022)***
***Disadvantaged Business Enterprise Participation***
The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 and USDOT's official interpretations (i.e., Questions & Answers) apply to this Contract. Demonstrating compliance with these Specifications is a Condition of Award (COA) of this Contract. Failure to comply with the requirements of this Specification may result in your Bid being found to be nonresponsive resulting in rejection or other sanctions as provided by Contract.

**DBE Abbreviations and Definitions**
**Broker** – A business firm that provides a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for the performance of the Contract; or, persons/companies who arrange or expedite transactions.

**Certified Business Description** – Specific descriptions of work the DBE is certified to perform, as identified in the Certified Firm Directory, under the Vendor Information page.

**Certified Firm Directory** – A database of all Minority, Women, and Disadvantaged Business Enterprises currently certified by Washington State. The on-line Directory is available to Contractors for their use in identifying and soliciting interest from DBE firms. The database is located under the Firm

Certification section of the Diversity Management and Compliance System web page (https://wsdot.diversitycompliance.com).

**Commercially Useful Function (CUF)**
49 CFR 26.55(c)(1) defines commercially useful function as: "*A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a commercially useful function, you must evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the DBE credit claimed for its performance of the work, and other relevant factors.*"

**Contract** – For this provision only, this definition supplements Section 1-01.3. 49 CFR 26.5 defines contract as: "… a legally binding relationship obligating a seller to furnish supplies or services (including, but not limited to, construction and professional services) and the buyer to pay for them. For purposes of this part, a lease is considered to be a contract."

**Disadvantaged Business Enterprise (DBE)** – A business firm certified by the Washington State Office of Minority and Women's Business Enterprises, as meeting the criteria outlined in 49 CFR 26 regarding DBE certification.

**DBE Commitment** – The dollar amount the Contractor indicates they will be subcontracting to be applied towards the DBE Condition of Award Goal as shown on the DBE Utilization Certification Form for each DBE ~~S~~subcontractor. This DBE Commitment amount will be incorporated into the Contract and shall be considered a Contract requirement. Any changes to the DBE Commitment shall require Engineer's approval.

**DBE Condition of Award (COA) Goal** – An assigned numerical percentage of the Bid amount of the Contract. This is the minimum amount that the Bidder must commit to by submission of the Utilization Certification Form and/or by Good Faith Effort (GFE). The DBE COA Goal will also be applied to change orders associated with this Contract.

**Force Account Work** – Work measured and paid in accordance with Section 1-09.6.

**Good Faith Efforts** – Efforts to achieve the DBE COA Goal or other requirements of this part which, by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement.

**Manufacturer (DBE)** – A DBE firm that operates or maintains a factory or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract. A DBE Manufacturer shall produce finished goods or products from raw or unfinished material or purchase and

substantially alters goods and materials to make them suitable for construction use before reselling them.

**Regular Dealer (DBE)** – A DBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Regular Dealer, the DBE firm must be an established regular business that engages in as its principal business and in its own name the purchase and sale of the products in question. A Regular Dealer in such items as steel, cement, gravel, stone, and petroleum products need not own, operate or maintain a place of business if it both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by long-term formal lease agreements and not on an ad-hoc basis. Brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions shall not be regarded as Regular Dealers within the meaning of this definition.

**DBE COA Goal**

The Contracting Agency has established a COA Contract Goal in the amount of: *** $$1$$ ***

**DBE Eligibility/Selection of DBEs**

In order to determine the distinct element(s) of work for which a DBE is certified, Contractors should refer to the Certified Business Description. The Contractor shall not use NAICS codes on the DBE Utilization Certification.

**Crediting DBE Participation**

Subcontractors proposed as COA must be certified prior to the due date for bids on the Contract. All non-COA DBE ~~S~~subcontractors shall be certified before the subcontract on which they are participating is executed.

Be advised that although a firm is listed in the Certified Firm Directory, there are cases where the listed firm is in a temporary suspension status. The Contractor shall review the OMWBE Suspended DBE Firms list. A DBE firm that is included on this list may not enter into new contracts that count towards participation.
DBE participation cannot be counted toward the Contractor's contract goal until the amount being counted has actually been paid to the DBE including return of retainage.

In all cases the DBE must be certified in advance for the work being considered and performing a CUF during the execution of the Work. The following are some examples of what may be counted as DBE participation.

**DBE Prime Contractor**

Only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE Prime Contractor performs with its own forces and is credited to perform.

**DBE Subcontractor**

Only take credit for that portion of the total dollar value of the subcontract that is equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces. The value of work performed by the DBE includes the cost

of supplies and materials purchased by the DBE and equipment leased by the DBE, for its work on the contract. Supplies, materials or equipment obtained by a DBE that are not utilized or incorporated in the contract work by the DBE will not be eligible for DBE credit unless the DBE is certified as a supplier or equipment leasing company.

The supplies, materials, and equipment purchased or leased from the Contractor or its affiliate, including any Contractor's resources available to DBE subcontractors at no cost, shall not be credited.

DBE credit will not be given in instances where the equipment lease includes the operator. The DBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the DBE, but payment is deducted from the Contractor's payment to the DBE is not allowed.

If a DBE subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the DBE COA Goal only if the DBE's lower-tier ~~S~~subcontractor is also a DBE. Work subcontracted to a non-DBE does not count towards the DBE COA Goal.

**DBE Subcontract and Lower Tier Subcontract Documents**

There must be a subcontract agreement that complies with 49 CFR Part 26 and fully describes the distinct elements of Work committed to be performed by the DBE. The subcontract agreement shall incorporate requirements of the primary Contract. Subcontract agreements of all tiers, including lease agreements shall be readily available at the project site for the Engineer's review.

**DBE Service Provider**

The value of fees or commissions charged by a DBE Broker, a DBE behaving in a manner of a Broker, or another service provider for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance specifically required for the performance of the contract will only be credited towards meeting the DBE COA Goal if the fee/commission is determined by the Contracting Agency to be reasonable and the firm has performed a CUF. Documentation will be required to support the fee/commission charged by the DBE.

**Force Account Work**

When the Contractor elects to utilize force account Work to meet the DBE COA Goal, as demonstrated by listing this force account Work on the DBE Utilization Certification Form, for the purposes of meeting DBE COA Goal, only 50% of the Proposal amount shall be credited toward the Contractors Commitment to meet the DBE COA Goal.

One hundred percent of the actual amounts paid to the DBE for the force account Work shall be credited towards DBE COA Goal or DBE participation.

**Temporary Traffic Control**

If the DBE firm is being utilized in the capacity of only "Flagging", the DBE firm must provide a Traffic Control Supervisor (TCS) and flagger, which are under

the direct control of the DBE. The DBE firm shall also provide all flagging equipment (e.g. paddles, hard hats, and vests).

If the DBE firm is being utilized in the capacity of “Traffic Control Services”, the DBE firm must provide a TCS, flaggers, and traffic control items (e.g., cones, barrels, signs, etc.) and be in total control of all items in implementing the traffic control for the project. In addition if the DBE firm utilizes the Contractor’s equipment, such as Transportable Attenuators and Portable Changeable Message Signs (PCMS) no DBE credit can be taken for supplying and operating the items.

**Trucking**

DBE trucking firm participation may only be credited to the DBE COA Goal for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier. In situations where the DBE’s work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine DBE credit for hauling.

The DBE trucking firm must own and operate at least one licensed, insured and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The DBE receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.

The DBE may lease additional trucks from another DBE firm.

The trucking Work subcontracted to any non-DBE trucking firm will not receive credit for Work done on the project. The DBE may lease trucks from a non-DBE truck leasing company, but can only receive credit towards DBE participation if the DBE uses its own employees as drivers.

DBE credit for a truck broker is limited to the fee/commission that the DBE receives for arranging transportation services.

Truck registration and lease agreements shall be readily available at the project site for the Engineer review.

**DBE Manufacturer and DBE Regular Dealer**

One hundred percent (100%) of the cost of the manufactured product obtained from a DBE manufacturer may count toward the DBE COA Goal. The DBE Manufacturer shall be certified as such by OMWBE.

Sixty percent (60%) of the cost of materials or supplies purchased from a DBE Regular Dealer may be credited toward meeting the DBE COA Goal. If the role of the DBE Regular Dealer is determined to be that of a pass-through, then no DBE credit will be given for its services. If the role of the DBE Regular Dealer is determined to be that of a Broker, then DBE credit shall be limited to the fee or commission it receives for its services. Regular Dealer status and the amount of credit is determined on a Contract-by-Contract basis.

Regular Dealer DBE firms must be approved before being used on a project. The WSDOT Approved Regular Dealer list published on WSDOT's Office of Equal Opportunity (OEO) web site must include the specific project for which approval is being requested. For purposes of the DBE COA Goal participation, the Regular Dealer must submit the Regular Dealer Status Request form a minimum of five days prior to bid opening.

Purchase of materials or supplies from a DBE which is neither a manufacturer nor a regular dealer, (i.e. Broker) only the fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, can count toward DBE COA Goal, provided the fees are not excessive as compared with fees customarily allowed for similar services. Documentation will be required to support the fee/commission charged by the DBE. The cost of the materials and supplies themselves cannot be counted toward DBE COA Goal.

Note: Requests to be listed as a Regular Dealer will only be processed if the requesting firm is a material supplier certified by the Office of Minority and Women's Business Enterprises in a NAICS code that falls within the 42XXXX NAICS Wholesale code section.

**Disadvantaged Business Enterprise Utilization**

To be eligible for award of the Contract, the Bidder shall properly complete and submit a Disadvantaged Business Enterprise Utilization Certification with the Bidder's sealed Bid Proposal, as specified in Section 1-02.9 Delivery of Proposal. The Bidder's Disadvantaged Business Enterprise Utilization Certification must clearly demonstrate how the Bidder intends to meet the DBE COA Goal. A Disadvantaged Business Enterprise Utilization Certification (WSDOT Form 272-056) is included in your Proposal package for this purpose as well as instructions on how to properly fill out the form.

The Bidder is advised that the items listed below when listed in the Utilization Certification must have their amounts reduced to the percentages shown and those reduced amounts will be the amount applied towards meeting the DBE COA Goal.

- Force account at 50%
- Regular dealer at 60%

In the event of arithmetic errors in completing the Disadvantaged Business Enterprise Utilization Certification the amount listed to be applied towards the DBE COA Goal for each DBE shall govern and the DBE total amount shall be adjusted accordingly.

Note: The Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal submitted that does not contain a Disadvantaged Business Enterprise Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the DBE COA Goal.

**Disadvantaged Business Enterprise Written Confirmation Document(s)**

The Bidder shall submit a Disadvantaged Business Enterprise Written Confirmation Document (completed and signed by the DBE) for each DBE firm listed in the

Bidder's completed Disadvantaged Business Enterprise Utilization Certification submitted with the Bid. Failure to do so will result in the associated participation being disallowed, which may cause the Bid to be determined to be nonresponsive resulting in Bid rejection.

The Confirmation Documents provide confirmation from the DBEs that they are participating in the Contract as provided in the Contractor's Commitment. The Confirmation Documents must be consistent with the Utilization Certification.

A Disadvantaged Business Enterprise Written Confirmation Document (form No. 422-031) is included in your Proposal package for this purpose.

The form(s) shall be received as specified in the special provisions for Section 1-02.9 Delivery of Proposal.

It is prohibited for the Bidder to require a DBE to submit a Written Confirmation Document with any part of the form left blank. Should the Contracting Agency determine that an incomplete Written Confirmation Document was signed by a DBE, the validity of the document comes into question. The associated DBE participation may not receive credit.

**Selection of Successful Bidder/Good Faith Efforts (GFE)**

The successful Bidder shall be selected on the basis of having submitted the lowest responsive Bid, which demonstrates a good faith effort to achieve the DBE COA Goal. The Contracting Agency, at any time during the selection process, may request a breakdown of the bid items and amounts that are counted towards the overall contract goal for any of the DBEs listed on the DBE Utilization Certification.

Achieving the DBE COA Goal may be accomplished in one of two ways:

1. <u>By meeting the DBE COA Goal</u>
   Submission of the DBE Utilization Certification and supporting DBE Written Confirmation Document(s) showing the Bidder has obtained enough DBE participation to meet or exceed the DBE COA Goal.

2. <u>By documentation that the Bidder made adequate GFE to meet the DBE COA Goal</u>
   The Bidder may demonstrate a GFE in whole or part through GFE documentation ONLY IN THE EVENT a Bidder's efforts to solicit sufficient DBE participation have been unsuccessful. The Bidder must supply GFE documentation in addition to the Disadvantaged Business Enterprise Utilization Certification, and supporting Disadvantaged Business Enterprise (DBE) Written Confirmation Document(s).

Note: In the case where the Bidder was awarded the contract based on demonstrating adequate GFE the advertised DBE COA Goal will not be reduced. The Bidder shall demonstrate a GFE during the life of the Contract to attain the advertised DBE COA Goal.

GFE documentation shall be received, as specified in the special provisions for Section 1-02.9 Delivery of Proposal.

The Contracting Agency will review the GFE documentation and will determine if the Bidder made an adequate good faith effort.

**Good Faith Effort (GFE) Documentation**

GFE is evaluated when:

1. Determining award of a Contract that has COA goal,

2. When a COA DBE is terminated and substitution is required, and

3. Prior to Physical Completion when determining whether the Contractor has satisfied its DBE commitments.

49 CFR Part 26, Appendix A is intended as general guidance and does not, in itself, demonstrate adequate good faith efforts. The following is a list of types of actions, which would be considered as part of the Bidder's GFE to achieve DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

1. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the Work of the Contract. The Bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The Bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.

2. Selecting portions of the Work to be performed by DBEs in order to increase the likelihood that the DBE COA Goal will be achieved. This includes, where appropriate, breaking out contract Work items into economically feasible units to facilitate DBE participation, even when the Contractor might otherwise prefer to perform these Work items with its own forces.

3. Providing interested DBEs with adequate information about the Plans, Specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation.

    a. Negotiating in good faith with interested DBEs. It is the Bidder's responsibility to make a portion of the Work available to DBE subcontractors and suppliers and to select those portions of the Work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the Plans and Specifications for the Work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the Work.

    b. A Bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as the DBE COA Goal into consideration. However, the fact that there

may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a Bidder's failure to meet the DBE COA Goal, as long as such costs are reasonable. Also, the ability or desire of a Contractor to perform the Work of a Contract with its own organization does not relieve the Bidder of the responsibility to make Good Faith Efforts. Contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

4. Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The Contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the Contractor's efforts to meet the DBE COA Goal.

5. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.

6. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.

7. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.

8. Documentation of GFE must include copies of each DBE and non-DBE subcontractor quotes submitted to the Bidder when a non-DBE subcontractor is selected over a DBE for Work on the Contract. (ref. updated DBE regulations – 26.53(b)(2)(vi) & App. A)

**Administrative Reconsideration of GFE Documentation**

Any Bidder has the right to reconsideration but only for the purpose of reassessing the GFE documentation that was originally submitted with their Bid, and determined to be inadequate.

- The Bidder must request within 48 hours of notification of being nonresponsive or forfeit the right to reconsideration.

- The reconsideration decision on the adequacy of the Bidder's GFE documentation shall be made by an official who did not take part in the original determination.

- Only original GFE documentation submitted as a supplement to the Bid shall be considered. The Bidder shall not introduce new documentation at the reconsideration hearing.

- The Bidder shall have the opportunity to meet in person with the official for the purpose of setting forth the Bidder's position as to why the GFE documentation demonstrates a sufficient effort.

- The reconsideration official shall provide the Bidder with a written decision on reconsideration within five working days of the hearing explaining the basis for their finding.

**Procedures between Award and Execution**

After Award and prior to Execution, the Contractor shall provide the additional information described below. Failure to comply shall result in the forfeiture of the Bidder's Proposal bond or deposit.

1. A DBE Bid Item Breakdown is required which shall contain the following information for all DBEs as shown on the Disadvantaged Business Enterprise Utilization Certification:

    a. Correct business name, federal employee identification number (if available), and mailing address.

    b. List of all Bid items assigned to each DBE with a clear description of Work to be performed for each Bid item and the dollar value of the Work to be performed by the DBE.

    c. Description of partial items (if any) to be sublet to each DBE specifying the Work committed under each item to be performed and including the dollar value of the DBE portion.

    d. Total amounts shown for each DBE shall match the amount shown on the Disadvantaged Business Enterprise Utilization Certification. A DBE Bid Item Breakdown that does not conform to the Disadvantaged Business Enterprise Utilization Certification or that demonstrates a different amount of DBE participation than that included in the Disadvantaged Business Enterprise Utilization Certification will be returned for correction.

2. A list of all firms who submitted a bid or quote in attempt to participate in this project whether they were successful or not. Include the business name and mailing address.

Note: The firms identified by the Contractor may be contacted by the Contracting Agency to solicit general information as follows: age of the firm and average of its gross annual receipts over the past three-years.

**Procedures after Execution**

**Commercially Useful Function (CUF)**

The Contractor may only take credit for the payments made for Work performed by a DBE that is determined to be performing a CUF. Payment must be commensurate with the work actually performed by the DBE. This applies to all DBEs performing Work on a project, whether or not the DBEs are COA, if the Contractor wants to receive credit for their participation. The Engineer will conduct CUF reviews to ascertain whether DBEs are performing a CUF. A DBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The DBE must be responsible for negotiating price; determining quality and quantity;

ordering the material, installing (where applicable); and paying for the material itself. If a DBE does not perform “all” of these functions on a furnish-and-install contract, it has not performed a CUF and the cost of materials cannot be counted toward DBE COA Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be readily available for review by the Engineer.

In order for a DBE traffic control company to be considered to be performing a CUF, the DBE must be in control of its work inclusive of supervision. The DBE shall employ a Traffic Control Supervisor who is directly involved in the management and supervision of the traffic control employees and services.

The DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which the funds are passed in order to obtain the appearance of DBE participation.

The following are some of the factors that the Engineer will use in determining whether a DBE trucking company is performing a CUF:

- The DBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on the contract. The owner demonstrates business related knowledge, shows up on site and is determined to be actively running the business.

- The DBE shall with its own workforce, operate at least one fully licensed, insured, and operational truck used on the Contract. The drivers of the trucks owned and leased by the DBE must be exclusively employed by the DBE and reflected on the DBE’s payroll.

- Lease agreements for trucks shall indicate that the DBE has exclusive use of and control over the truck(s). This does not preclude the leased truck from working for others provided it is with the consent of the DBE and the lease provides the DBE absolute priority for use of the leased truck.

- Leased trucks shall display the name and identification number of the DBE.

**DBE Utilization Plan**

The DBE Bid Item Breakdown is the initial plan for Bid Item work committed to DBE firms. When a Contractor identifies a change in the plan, an update shall be submitted within 7 calendar days between Execution and Physical Completion. Plan updates shall not make changes to the Commitment or the DBE Utilization Certification.

**Joint Checking**

A joint check is a check between a ~~S~~subcontractor and the Contractor to the supplier of materials/supplies. The check is issued by the Contractor as payer to the ~~S~~subcontractor and the material supplier jointly for items to be incorporated into the project. The DBE must release the check to the supplier, while the Contractor acts solely as the guarantor.

A joint check agreement must be approved by the Engineer and requested by the DBE involved using the DBE Joint Check Request Form (form # 272-053) prior to its use. The form must accompany the DBE Joint Check Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks.

The approval to use joint checks and the use will be closely monitored by the Engineer. To receive DBE credit for performing a CUF with respect to obtaining materials and supplies, a DBE must "be responsible for negotiating price, determining quality and quantity, ordering the material, installing and paying for the material itself." The Contractor shall submit DBE Joint Check Request Form for the Engineer approval prior to using a joint check.

Material costs paid by the Contractor directly to the material supplier are not allowed. If proper procedures are not followed or the Engineer determines that the arrangement results in lack of independence for the DBE involved, no DBE credit will be given for the DBE's participation as it relates to the material cost.

**Prompt Payment**

Prompt payment to all subcontractors shall be in accordance with Section 1-08.1. Prompt payment requirements apply to progress payments as well as return of retainage.

**Reporting**

The Contractor and all subcontractors/suppliers/service providers that utilize DBEs to perform work on the project, shall maintain appropriate records that will enable the Engineer to verify DBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this contract.

**Changes in COA Work Committed to DBE**

The Contractor shall utilize the COA DBEs to perform the work and supply the materials for which each is committed unless a change is approved by the Engineer. The Contractor shall not be entitled to any payment for work or material completed by the Contractor or subcontractors that was committed to be completed by the COA DBEs.

**Owner Initiated Changes**

Where the Engineer makes changes that result in changes to Work that was committed to a COA DBE. The Contractor may be directed to substitute for the Work in such instances.

**Contractor Initiated Changes**

The Contractor cannot reduce the amount of work committed to a COA DBE without good cause. Reducing DBE Commitment is viewed as partial DBE termination, and therefore subject to the termination procedures below.

**Original Quantity Underruns**

In the event that Work committed to a DBE firm as part of the COA underruns the original planned quantities the Contractor may be required to substitute the remaining applicable Work to another DBE.

**Contractor Proposed DBE Substitutions**

Requests to substitute a COA DBE must be for good cause (see DBE termination process below), and requires prior written approval of the Engineer. After receiving a termination with good cause approval, the Contractor may only replace a DBE with another certified DBE. When any changes between Contract Award and Execution result in a substitution of COA DBE, the substitute DBE shall be certified prior to the bid opening on the Contract.

**DBE Termination**

Termination of a COA DBE (or an approved substitute DBE) is only allowed in whole or in part with prior written approval of the Engineer. If the Contractor terminates a COA DBE without the written approval of the Engineer, the Contractor shall not be entitled to credit towards the DBE COA Goal for any payment for work or material performed/supplied by the COA DBE. In addition sanctions may apply as described elsewhere in this specification.

The Contractor must have good cause to terminate a COA DBE.

Good cause typically includes situations where the DBE ~~S~~subcontractor is unable or unwilling to perform the work of its subcontract. Good cause may exist if:

- The DBE fails or refuses to execute a written contract.
- The DBE fails or refuses to perform the Work of its subcontract in a way consistent with normal industry standards.
- The DBE fails or refuses to meet the Contractor's reasonable nondiscriminatory bond requirements.
- The DBE becomes bankrupt, insolvent, or exhibits credit unworthiness.
- The DBE is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law.
- The DBE voluntarily withdraws from the project, and provides written notice of its withdrawal.
- The DBE's work is deemed unsatisfactory by the Engineer and not in compliance with the Contract.
- The DBE's owner dies or becomes disabled with the result that the DBE is unable to complete its Work on the Contract.

Good cause does not exist if:

- The Contractor seeks to terminate a COA DBE so that the Contractor can self-perform the Work.

- The Contractor seeks to terminate a COA DBE so the Contractor can substitute another DBE contractor or non-DBE contractor after Contract Award.

- The failure or refusal of the COA DBE to perform its Work on the subcontract results from the bad faith or discriminatory action of the Contractor (e.g., the failure of the Contractor to make timely payments or the unnecessary placing of obstacles in the path of the DBE's Work).

Prior to requesting termination, the Contractor shall give notice in writing to the DBE with a copy to the Engineer of its intent to request to terminate DBE Work and the reasons for doing so. The DBE shall have five (5) days to respond to the Contractor's notice. The DBE's response shall either support the termination or advise the Engineer and the Contractor of the reasons it objects to the termination of its subcontract.

When a COA DBE is terminated, or fails to complete its work on the Contract for any reason, the Contractor shall substitute with another DBE or provide documentation of GFE. A plan to achieve the COA DBE Commitment shall be submitted to the Engineer within 2 days of the approval of termination or the Contract shall be suspended until such time the substitution plan is submitted.

**Decertification**

When a DBE is "decertified" from the DBE program during the course of the Contract, the participation of that DBE shall continue to count towards the DBE COA Goal as long as the subcontract with the DBE was executed prior to the decertification notice. The Contractor is obligated to substitute when a DBE does not have an executed subcontract agreement at the time of decertification.

**Consequences of Non-Compliance**

**Breach of Contract**

Each contract with a Contractor (and each subcontract the Contractor signs with a ~~S~~subcontractor) must include the following assurance clause:

The Contractor, subrecipient, or ~~S~~subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

(1) Withholding monthly progress payments;

(2) Assessing sanctions;

(3) Liquidated damages; and/or

(4) Disqualifying the Contractor from future bidding as non-responsible.

**Notice**

If the Contractor or any ~~S~~subcontractor, Consultant, Regular Dealer, or service provider is deemed to be in non-compliance, the Contractor will be informed in writing, by certified mail by the Engineer that sanctions will be imposed for failure to meet the DBE COA Commitment and/or submit documentation of good faith efforts. The notice will state the specific sanctions to be imposed which may include impacting a Contractor or other entity's ability to participate in future contracts.

**Sanctions**

If it is determined that the Contractor's failure to meet all or part of the DBE COA Commitment is due to the Contractor's inadequate good faith efforts throughout the life of the Contract, including failure to submit timely, required Good Faith Efforts information and documentation, the Contractor may be required to pay DBE penalty equal to the amount of the unmet Commitment, in addition to the sanctions outlined in Section 1-07.11(5).

**Payment**

Compensation for all costs involved with complying with the conditions of this Specification and any other associated DBE requirements is included in payment for the associated Contract items of Work, except otherwise provided in the Specifications.

1-07.12.GR1

## Federal Agency Inspection

1-07.12.INST1.GR1

Section 1-07.12 is supplemented with the following:

1-07.12.OPT1.GR1

***(July 25, 2022)***

***Required Federal Aid Provisions***

The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273) Revised July 5, 2022 and the amendments thereto supersede any conflicting provisions of the Standard Specifications and are made a part of this Contract; provided, however, that if any of the provisions of FHWA 1273, as amended, are less restrictive than Washington State Law, then the Washington State Law shall prevail.

The provisions of FHWA 1273, as amended, included in this Contract require that the Contractor insert the FHWA 1273 and amendments thereto in each subcontract, together with the wage rates which are part of the FHWA 1273, as amended. Also, a clause shall be included in each subcontract requiring the subcontractors to insert the FHWA 1273 and amendments thereto in any lower tier subcontracts, together with the wage rates. The Contractor shall also ensure that this section, REQUIRED FEDERAL AID PROVISIONS, is inserted in each subcontract for subcontractors and lower tier subcontractors. For this purpose, upon request to the Engineer, the Contractor will be provided with extra copies of the FHWA 1273, the amendments thereto, the applicable wage rates, and this Special Provision.

1-07.12.OPT2.FR1

***(~~August 1, 2011~~October 3, 2022)***

***Indian Preference and Tribal Ordinances***

This project is located on the *** $$1$$ ***. It is the Contractor's responsibility to contact the person and/or office listed in this special provision to determine whether any tribal laws or taxes apply. If the tribal laws and taxes do apply, the Contractor shall comply with them in accordance with Section 1-07.1. For informational purposes only, the Work on this project that falls within Tribal Lands is shown on the Summary of Quantities in Group(s) *** $$2$$ ***.

Tribal Employment Rights Ordinances (TEROs) may utilize a variety of tools to encourage Indian employment. These tools may include, but are not limited to, TERO fees, Indian hiring preference, Indian-owned business subcontracting preference and/or an Indian training requirement. Other requirements may be a Tribal business license, a required compliance plan and/or employee registration requirements. Every tribe is different and each may be willing to work cooperatively with the Contractor to develop a strategy that works for both parties. For specific details, the Contractor should contact *** $$3$$ ***.

The state recognizes the sovereign authority of the tribe and supports the tribe's efforts to enforce its rightful and legal ordinances and expects the Contractor to comply and cooperate with the tribe. The costs related to such compliance shall be borne solely by the Contractor, who is advised to contact the tribal representative listed above, prior to submitting a bid, to assess the impact of compliance on the project.

Although Indian preference cannot be compelled or mandated by the Contracting Agency, there is no limitation whereby voluntary Contractor or ~~S~~subcontractor-initiated preferences are given, if otherwise lawful. 41 CFR 60-1.5(a)7 provides as follows:

> Work on or near Indian reservations --- It shall not be a violation of the equal opportunity clause for a construction or non-construction Contractor to extend a publicly announced preference in employment to Indians living on or near an Indian reservation in connection with employment opportunities on or near an Indian reservation. The use of the word *near* would include all that area where a person seeking employment could reasonably be expected to commute to and from in the course of a work day. Contractors or ~~S~~subcontractors extending such a preference shall not, however, discriminate among Indians on the basis of religion, sex, or tribal affiliation, and the use of such a preference shall not excuse a Contractor from complying with the other requirements as contained in the August 25, 1981 Department of Labor, Office of Federal Contract Compliance Programs, Government Contractors Affirmative Actions Requirements.

1-07.16.GR1

## Protection and Restoration of Property

1-07.16(1).GR1

***Private/Public Property***

1-07.16(1)C.GR1

**Private Property**

1-07.16(1)C.INST1.GR1

Section 1-07.16(1)C is supplemented with the following:

1-07.16(1)C.OPT1.GR1

(October 3, 2022)

The Contractor shall not access the worksite from adjacent properties without permission from the Engineer. The Contractor shall submit a Type 2 Working Drawing to the Engineer in accordance with Section 1-05.3 prior to accessing the project site from adjacent properties. The Working Drawing shall include the methods, materials, equipment, and restoration measures used to access the worksite.

1-07.16(1)C.OPT2.GR1

(October 3, 2022)

The Contractor is not to use adjoining property without first obtaining written permission from adjacent property owner(s), and notifying the Engineer, in writing, when such permission has been granted prior to occupying or using adjoining property.

1-07.16(2).GR1

***Vegetation Protection and Restoration***

1-07.16(2).INST1.GR1

Section 1-07.16(2) is supplemented with the following:

1-07.16(2).OPT1.GR1

(August 2, 2010)

Vegetation and soil protection zones for trees shall extend out from the trunk to a distance of 1 foot radius for each inch of trunk diameter at breast height.

Vegetation and soil protection zones for shrubs shall extend out from the stems at ground level to twice the radius of the shrub.

Vegetation and soil protection zones for herbaceous vegetation shall extend to encompass the diameter of the plant as measured from the outer edge of the plant.

1-07.16(4).GR1

***Archaeological and Historical Objects***

1-07.16(4).INST1.GR1

Section 1-07.16(4) is supplemented with the following:

1-07.16(4).OPT1.GR1

(December 6, 2004)

The project area potentially contains archaeological or historical objects that may have significance from a historical or scientific standpoint. To protect these objects from damage or destruction, the Contracting Agency, at its discretion and expense, may monitor the Contractor's operations, conduct various site testing and perform recovery and removal of such objects when necessary.

The Contractor may be required to conduct its operations in a manner that will accommodate such activities, including the reserving of portions of the work area for site testing, exploratory operations and recovery and removal of such objects as directed by the Engineer. If such activities are performed by consultants retained by

the Contracting Agency, the Contractor shall provide them adequate access to the project site.

Added work necessary to uncover, fence, dewater, or otherwise protect or assist in such testing, exploratory operations and salvaging of the objects as ordered by the Engineer shall be paid by force account as provided in Section 1-09.6. If the discovery and salvaging activities require the Engineer to suspend the Contractor's work, any adjustment in time will be determined by the Engineer pursuant to Section 1-08.8.

To provide a common basis for all bidders, the Contracting Agency has entered an amount for the item "Archaeological and Historical Salvage" in the Proposal to become a part of the total bid by the Contractor.

1-07.17.GR1

## Utilities and Similar Facilities

1-07.17.INST1.GR1

Section 1-07.17 is supplemented with the following:

1-07.17.OPT1.FR1

(April 2, 2007)

Locations and dimensions shown in the Plans for existing facilities are in accordance with available information obtained without uncovering, measuring, or other verification.

The following addresses and telephone numbers of utility companies known or suspected of having facilities within the project limits are supplied for the Contractor's convenience:

*** $$1$$ ***

1-07.17.OPT2.FR1

(~~April 2, 2007~~October 3, 2022)

Locations and dimensions shown in the Plans for existing facilities are in accordance with available information obtained without uncovering, measuring, or other verification.

Public and private utilities, or their Contractors, will furnish all work necessary to adjust, relocate, replace, or construct their facilities unless otherwise provided for in the Plans or these Special Provisions. Such adjustment, relocation, replacement, or construction will be done during the prosecution of the work for this project. It is anticipated that utility adjustment, relocation, replacement, or construction within the project limits will be completed as follows:

*** $$1$$ ***

The Contractor shall attend a mandatory utility preconstruction meeting with the Engineer, all affected ~~S~~subcontractors, and all utility owners and their Contractors prior to beginning onsite work.

The following addresses and telephone numbers of utility companies or their Contractors that will be adjusting, relocating, replacing or constructing utilities within the project limits are supplied for the Contractor's use:

*** $$2$$ ***

*** $$3$$ ***

1-07.18.GR1

## Public Liability and Property Damage Insurance

~~1-07.18.INST1.GR1~~

~~Section 1-07.18 is supplemented with the following:~~

~~1-07.18.OPT1.FR1~~

~~**(September 8, 2020)**~~

~~***Relations With Railroad***~~

~~The term Railroad Company, as used in these specifications shall be applicable to each of the following railroad companies:~~

~~*** $$1$$ ***~~

~~**Protection of Railroad Property**~~

~~The Contractor shall exercise care in all operations and shall, at the Contractor's expense, protect the property of the Railroad Company and the Company's appurtenances, property in its custody, or persons lawfully upon its right of way, from damage, destruction, interference or injury caused by the Contractor's operations. The Contractor shall prosecute the work to not interfere with the Railroad Company or its appurtenances, or any of the Railroad Company's trains or facilities, and shall complete the work to a condition that shall not interfere with or menace the integrity or safe and successful operations of the Railroad Company or its appurtenances, or any of the Railroad Company's trains or facilities.~~

~~The Contractor shall not transport equipment, machinery, or materials across the Railroad Company's tracks, except at a public crossing, without the written consent of the Railroad Company.~~

~~The Contractor shall keep the right of way and ditches of the Railroad Company open and clean from any deposits or debris resulting from its operations. The Contractor shall be responsible for the cost to clean and restore ballast of the Railroad Company which is disturbed or becomes fouled with dirt or materials when such deposits or damage result from the Contractor's operations, except as provided elsewhere.~~

~~The Contractor's work shall be conducted in such a manner that there will be a minimum of interference with the operation of the railroad. For Class 1 Railroads (BNSF and UPRR) the Railroad Company will specify what periods will be available to the Contractor for executing any part of the work in which the Railroad Company's tracks will be obstructed or made unsafe for operation of the railroad. No interference with Class 1 Railroad Company operations will be permitted between October 1 and December 31. The Railroad Company may change these requirements to be more or less restrictive. Requests for extensions of time due to additional Railroad restrictions shall be in accordance with Section 1-08.8. Additional Railroad restrictions will not be eligible for a cost adjustment.~~

~~In the event that an emergency occurs in connection with the work specified, the Railroad Company reserves the right to do any and all work that may be necessary~~

~~to maintain railroad traffic. If the emergency is caused by the Contractor, the Contractor shall be responsible for all Railroad Company costs associated with the emergency response.~~

~~Protective services to protect the Railroad Company's facilities, property, and movement of its trains or engines, including railroad flagging and other devices, may be required by the Railroad Company as a result of the Contractor's operations.~~

~~The nature and extent of protective services, personnel and other measures required will in all cases be determined by the Railroad Company. Nothing in these specifications will limit the Railroad Company's right to determine and assign the number of personnel, the classes of personnel for protective services, nor other protective measures it deems necessary.~~

~~When, in the opinion of the Railroad Company, the services of flaggers or inspectors are necessary for the protection of the Railroad Company's facilities by reason of the Contractor's operations, the Railroad Company will furnish such flaggers or inspectors as may be required. The Contractor shall notify the Railroad Company a minimum of *** $$2$$ *** in advance of whenever the Contractor is about to perform work within Railroad Company property or within 25 feet of the tracks to enable the Railroad Company to provide flagging or other protective services.~~

> ~~The Railroad Company's contact to schedule flagging or other protective services is:~~
>
> ~~*** $$3$$ ***~~

~~No act of the Railroad Company in supervising or approving any work shall reduce or in any way affect the liability of the Contractor for damages, expense, or cost which may result to the Railroad Company from the construction of this Contract.~~

~~Unless otherwise provided, all personnel assigned by the Railroad Company, other than those engaged in performing work by the Railroad Company as listed under Construction Work by Railroad Company, will be considered protective personnel.~~

~~In general, the Railroad Company will furnish protective services whenever any of the Contractor's operations take place within or near railroad right of way and, in the opinion of the Railroad Company's representative, could endanger railroad facilities or create a hazard to railroad operations.~~

~~The Railroad Company's policy for assignment of railroad flaggers requires that the flagging position is established for fixed work days and times. Any railroad flagging performed outside of these parameters may be subject to overtime costs. The Contractor shall verify with the Railroad Company what categories of railroad flagging constitute overtime work, and obtain prior authorization from the Engineer before coordinating with the Railroad Company for flagging requiring overtime payments.~~

~~The Contractor shall submit to the Railroad Company and the Engineer, in writing, an itinerary of work within the Railroad Company's right of way or otherwise requiring a Railroad Company flagger for the following week. If such work spans multiple weeks, the itinerary shall be provided in advance of each work week.~~

~~There will be no cost to the Contractor for the railroad protective services, unless:~~

- ~~Such services result from the Contractor's failure to comply with the terms and conditions of its contract with the Contracting Agency or with its Contractor's Right of Entry Agreements with the Railroad Company.~~

- ~~The Contractor fails to obtain authorization from the Engineer prior to coordinating with the Railroad Company for any flagging requiring overtime payments.~~

- ~~The Contractor arranges for assignment of a railroad flagger and alters Project work so that a flagger is no longer needed, and adequate advance notice is not provided to the Railroad Company of such change in the need for a flagger (*i.e.* causing the Railroad Company to dispatch a flagger billable to the Project when one is not required).~~

- ~~The Contractor causes an emergency, as discussed above.~~

**~~Construction Work by Railroad Company~~**

~~The work by the Railroad Company as described below will be performed by the Railroad Company with its own forces at no cost to the Contractor:~~

~~*** $$4$$ ***~~

~~All work which is performed by the Railroad Company at the Contractor's request and which is for the Contractor's benefit or convenience shall be at the Contractor's expense and the Contractor shall reimburse the Railroad Company for all costs for such work.~~

~~The Contractor shall cooperate with the Railroad Company and so conduct operations that the necessary reconstruction of its facilities and the removal of existing facilities can be accomplished without interruption of service.~~

**~~Contractor's Right of Entry Agreement~~**

~~For all matters regarding the Contractor's Right of Entry Agreement, the Contractor shall contact:~~

~~*** $$5$$ ***~~

~~No work shall be commenced within the Railroad Company's Property until the Contractor has executed, delivered, and received in return the fully executed Contractor's Right-of-Entry Agreement from the Railroad Company, and has obtained all of the insurance required by the Railroad Company as specified therein. All work within the Railroad Company's right of way or within 25 feet of a public railroad grade crossing shall be in accordance with Railroad's Contractor Requirements and the Contractor's Right of Entry Agreement. The Contracting Agency has furnished a draft Contractor's Right of Entry Agreement in Appendix *** $$6$$ ***. The draft Contractor's Right of Entry Agreement represents the Contracting Agency's assessment of the likely terms and conditions prior to Advertisement for Bids. The final terms and conditions will be determined by the Railroad Company after Contract Execution.~~

~~The Contractor, it subcontractors or agents, shall at its own expense, obtain and maintain in force all insurance required by Railroad until the completion date of the contract as described in Section 1-08.5 except as stated herein.~~

~~When all the work involving construction activities within or immediately adjacent to the railroad right of way is completed, the Contractor may make a written request to the Engineer to be relieved of the responsibility to continue all or part of the insurance specified above. If the Engineer deems the portion of the work in that area is complete, the Engineer may approve the Contractor's request. However, if for any reason the Contractor resumes or starts any new work in that area (including being ordered to do so by the Engineer), the insurance shall be reinstated by the Contractor before the work is started. If the insurance must be reinstated because of the Contractor's operations or failure of the Contractor to perform all the contract requirements, the costs shall be the responsibility of the Contractor. If the insurance must be reinstated because of changes to the contract, the costs will be considered in accordance with Section 1-04.4.~~

~~**Submittals and Working Drawings**~~
~~Unless specified elsewhere in the Contract, all submittals and Working Drawings prepared by the Contractor for review by the Railroad Company shall be Type 3 or 3E Working Drawings. The Contractor shall submit Working Drawings to the Project Engineer. The Contracting Agency will coordinate Working Drawing review with the Railroad Company. The Contractor shall develop a progress schedule that includes Working Drawing reviews by the Railroad Company.~~

1-07.18(5).GR1

***Required Insurance Policies***

1-07.18(5).INST1.GR1

The first sentence of Item No. 1 of Section 1-07.18(5) is revised to read:

1-07.18(5).OPT1.FR1

(September 7, 2021)

1. Owners and Contractors Protective (OCP) Insurance providing bodily injury and property damage liability coverage, with limits of *** $$1$$ *** per occurrence and per project in the aggregate for each policy period, which will be written solely on Insurance Services Office (ISO) form CG0009 1204, together with Washington State Department of Transportation amendatory endorsement CG 2908 1195, specifying the Contracting Agency, the State, the Governor, the Commission, the Secretary, the Department and all officers and employees of the State as named insured.

1-07.18(5).OPT2.GR1

(September 7, 2021)

Item number 1 of Section 1-07.18(5) is deleted.

1-07.18(5).INST2.GR1

The first sentence of Item No. 2 of Section 1-07.18(5) is revised to read:

1-07.18(5).OPT3.GR1

(September 7, 2021)

2. Commercial General Liability (CGL) Insurance written under ISO Form CG0001 with minimum limits of $1,000,000 per occurrence and in the aggregate for each one-year policy period.

1-07.18(5).OPT4.FR1

(September 7, 2021)

2. Commercial General Liability (CGL) Insurance written under ISO Form CG0001 with minimum limits of *** $$1$$ *** per occurrence and in the aggregate for each 1-year policy period.

1-07.18(5).INST3.GR1

Section 1-07.18(5) is supplemented with the following:

1-07.18(5).OPT5.GR1

**(~~January 3, 2011~~October 3, 2022)**

**Builder's Risk Insurance**

Builder's Risk Insurance providing Broad Perils (All Risk) coverage upon any work at the site, to the full insurable value thereof. This insurance shall include the Contractor, its ~~S~~subcontractors of every tier, and the State of Washington as named insured on the policy. Coverage shall be included for all materials and supplies to be incorporated into the work at the jobsite, while in transit to the jobsite, or while stored away from the jobsite.

1-07.18(5).OPT6.FR1

(~~January 7, 2013~~October 3, 2022)

The Contractor shall obtain Contractor's Pollution Liability Insurance (CPL) with minimum "per project" limits of *** $$1$$ *** per occurrence and in the aggregate for claims, including investigation, defense, or settlement costs and expenses for bodily injury and property damage (including natural resources damages and loss of use of tangible property that has not been physically injured) arising out of:

a. Pollution conditions caused or made worse by the Contractor's performance of the Work, including clean-up costs for a newly caused condition or a historical condition that is made worse; and;

b. The vicarious liability of ~~S~~subcontractors of any tier.

The Contractor shall be Named Insured and the Contracting Agency, the State, the Governor, the Commission, the Secretary, the Department, all officers and employees of the State, and their respective members, directors, officers, employees, agents, and consultants (collectively the "Additional Insureds") shall be included as Additional Insureds, or, as appropriate, a Named Insured, under this policy and coverage.

~~1-07.18(5).OPT7.GR1~~

~~**(August 7, 2006)**~~

~~**Contractor's Right of Entry and Insurance Requirements – BNSF**~~

~~No work shall commence within BNSF Railway Company (BNSF) right of way until the Contractor has executed, delivered, and received in return the fully executed Contractor's Right-of-Entry Agreement from BNSF, and has obtained all of the insurance required by the Railroad. All work within BNSF's right of way shall be in~~

~~accordance with BNSF's Contractor Requirements and the Contractor's Right of Entry Agreement (See Appendices).~~

~~The Contractor, its Subcontractors or agents, shall at its own expense, obtain and maintain in force all insurance required by BNSF until the completion date of the contract as described in Section 1-08.5 except as stated herein.~~

~~When all the work involving construction activities within or immediately adjacent to the Railroad right of way is completed, the Contractor may make a written request to the Engineer to be relieved of the responsibility to continue the insurance required by BNSF. If the Engineer deems the portion of the work in that area is complete, the Engineer may approve the Contractor's request. However, if for any reason the Contractor resumes or starts any new work in that area (including being ordered to do so by the Engineer), the insurance shall be reinstated by the Contractor before the work is started. If the insurance must be reinstated because of the Contractor's activities or failure of the Contractor to perform all the contract requirements, the costs shall be the responsibility of the Contractor. If the insurance must be reinstated because of changes to the contract, the costs will be considered in accordance with Section 1-04.4.~~

~~1-07.18(5).OPT8.GR1~~

~~**(August 7, 2006)**~~

~~**Contractor's Right of Entry and Insurance Requirements – UPRR**~~

~~No work shall commence within Union Pacific Railroad right of way until the Contractor has executed, delivered, and received in return the fully executed Contractor's Right-of-Entry Agreement from Union Pacific Railroad, and has obtained all of the insurance required by the Railroad. All work within Union Pacific Railroad's right of way shall be in accordance with the Contractor's Right of Entry Agreement (See Appendixes).~~

~~The Contractor, its Subcontractors or agents, shall at its own expense, obtain and maintain in force all insurance required by Union Pacific Railroad until the completion date of the contract as described in Section 1-08.5 except as stated herein.~~

~~When all the work involving construction activities within or immediately adjacent to the railroad right of way is completed, the Contractor may make a written request to the Engineer to be relieved of the responsibility to continue the insurance required by Union Pacific Railroad. If the Engineer deems the portion of the work in that area is complete, the Engineer may approve the Contractor's request. However, if for any reason the Contractor resumes or starts any new work in that area (including being ordered to do so by the Engineer), the insurance shall be reinstated by the Contractor before the work is started. If the insurance must be reinstated because of the Contractors activities or failure of the Contractor to perform all the contract requirements, the costs shall be the responsibility of the Contractor. If the insurance must be reinstated because of changes to the contract, the costs will be considered in accordance with Section 1-04.4.~~

1-07.23.GR1

**Public Convenience and Safety**

1-07.23(1).GR1

***Construction Under Traffic***

1-07.23(1).INST1.GR1

Section 1-07.23(1) is supplemented with the following:

1-07.23(1).OPT1.FB1

(March 13, 1995)

During the hours that cleaning and painting operations are actually in progress, traffic may be restricted as follows:

*** $$1$$ ***

Whenever the Contractor's operations require lane reductions restricting the flow of traffic on multiple lanes in the same direction, the Contractor shall furnish, maintain, and operate a sequential arrow sign, for each lane closure, as specified in the Special Provision **SEQUENTIAL ARROW SIGN**.

If the Engineer determines that such lane restrictions are causing traffic congestion, the Contractor shall open all lanes to traffic until the congestion is eliminated.

For movable span structures, the Contractor's operations shall be arranged to permit the opening of the moveable span whenever required by marine traffic.

Bridge sidewalks shall be kept clear and open to maintain safe pedestrian traffic.

1-07.23(1).OPT4.GR1

(December 6, 2004)

The portion of Section 1-07.16(1) that prohibits the merging of construction vehicles with public traffic from an access gained through adjacent properties is rescinded, provided the Contractor’s submittal is approved as required below.

**Access for Construction**

The Contractor may enter and leave the traveled way, auxiliary lanes or shoulders at approved locations other than established legal movements. To obtain approval of such an access location, the Contractor shall submit a request to the Engineer. The Contractor’s request shall be submitted to the Engineer at least 30 calendar days prior to the time the use of the access will be required. This submittal shall include a vicinity map indicating the interstate stationing at the centerline of the access, distances from the end of ramp tapers of existing interchanges and a traffic control plan conforming with the requirements specified in Section 1-10.2(2). The access shall meet the following requirements:

- Access to and from the worksite adjacent to a multi-lane facility will only be allowed to and from a closed lane.

- The merging point of construction vehicles and public traffic shall provide a Decision Sight Distance for the traveling public of 1,640 ft in urban areas and 1,360 ft in rural areas.

- In urban areas the access shall not be located within 3,280 ft of the end of a ramp taper, or the centerline of a road approach. In rural areas the access shall not be located within 2,720 ft of the end of a ramp taper or the centerline of a road approach.

- Median crossings within 1.5 miles of the access point shall not be used in conjunction with the access.

- No new median crossings shall be created for use in conjunction within 1.5 miles of the access point.

- Short-duration shoulder stops in the construction zone, utilizing light vehicles properly equipped with warning flashers, will be allowed without a lane closure.

- When in use the access location shall have traffic control in place as per Section 1-10. Unauthorized use of the access from adjacent property is to be prohibited by the use of signing and/or flaggers as conditions warrant.

- The continuity of the existing drainage system shall be maintained through the access site.

- Air borne particulates created as a result of using the access shall be effectively controlled.

- The access location shall not adversely affect wetlands or other sensitive areas.

At the completion of the project, the Contractor shall restore the area of the access site to its original, pre-contract, condition. Any damage to the traveled way, shoulders, auxiliary lanes, side slopes or other items caused by the access shall be repaired. All work to comply with this provision or to build, maintain, provide erosion control, control airborne particulates, ensure that drainage continues through the access site, provide traffic control when necessary, remove the temporary access and restore the surrounding area when no longer required for use are the responsibility of the Contractor. The Contractor shall include all related costs in the bid prices of the contract.

1-07.23(1).OPT5.FR1

(~~January 5, 2015~~October 3, 2022)

Lane, ramp, shoulder, and roadway closures are subject to the following restrictions:

*** $$1$$ ***

If the Engineer determines the permitted closure hours adversely affect traffic, the Engineer may adjust the hours accordingly. The Engineer will notify the Contractor in writing of any change in the closure hours. Exceptions to these restrictions may be considered by the Engineer on a case-by-case basis following a written request by the Contractor.

Lane, ramp, shoulder, and roadway closures are not allowed on any of the following:

1. A holiday,

2. A holiday weekend; holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend. A holiday weekend includes Saturday, Sunday, and the holiday.

3. After *** $$2$$ *** on the day prior to a holiday or holiday weekend, and

4. Before *** $$3$$ *** on the day after the holiday or holiday weekend.

5. The two-hour period prior to and the two-hour period after the following special events:

   *** $$4$$ ***

   It shall be the Contractor's responsibility to obtain the dates and times of all events.

**Traffic Delays**

When AFADs or flaggers are used to control traffic, traffic shall not be stopped for more than *** $$5$$ *** minutes at any time. All traffic congestion shall be allowed to clear before traffic is delayed again.

If the delay becomes greater than *** $$6$$ *** minutes, the Contractor shall immediately begin to take action to cease the operations that are causing the delays. If the *** $$7$$ *** minute delay limit has been exceeded, as determined by the Engineer, the Contractor shall provide to the Engineer, a written proposal to revise his work operations to meet the *** $$8$$ *** minute limit. This proposal shall be accepted by the Engineer prior to resuming any work requiring traffic control.

There shall be no delay to medical, fire, or other emergency vehicles. The Contractor shall alert all flaggers and personnel of this requirement.

**General Restrictions**

Construction vehicles using a closed traffic lane shall travel only in the normal direction of traffic flow unless expressly allowed in an accepted traffic control plan. Construction vehicles shall be equipped with flashing or rotating amber lights.

No two consecutive on-ramps, off-ramps, or intersections shall be closed at the same time and only one ramp at an interchange shall be closed, unless specifically shown in the Plans.

Roads or ramps that are designated as part of a detour shall not be closed or restricted during the implementation of that detour, unless specifically shown in the Plans.

**Controlled Access**

No special access or egress shall be allowed by the Contractor other than normal legal movements or as shown in the Plans.

Contractor's vehicles of 10,000 GVW or greater shall not exit or enter a lane open to public traffic except as follows:

Egress and ingress shall only occur during the hours of allowable lane closures, and:

1. For exiting an open lane of traffic, by decelerating in a lane that is closed during the allowable hours for lane closures.

2. For entering an open lane of traffic, by accelerating in a closed lane during the allowable hours for lane closures.

Traffic control vehicles are excluded from the gross vehicle weight requirement. If placing construction signs will restrict traveled lanes, then the work will be permitted during the hours of allowable lane closures.

**Advance Notification**

The Contractor shall notify the Engineer in writing of any traffic impacts related to lane closure, shoulder closure, sidewalk closure, or any combination for the week by 12:00 p.m. (noon) Wednesday the week prior to the stated impacts.

The Contractor shall notify the Engineer in writing ten working days in advance of any traffic impacts related to full roadway closure, ramp closure, or both.

The Contractor shall notify the Engineer in writing of any changes to the stated traffic impacts a minimum of 48 hours prior to the traffic impacts.

1-07.23(1).OPT6.GR1

(April 14, 2014)

Physical reductions of the width of thru travelling lanes are subject to the following restrictions:

The Contractor shall not reduce the travelled way to a single lane with a clear width of less than 16 feet for a duration that exceeds 4 calendar days without prior approval of the Engineer. The Contractor shall submit a request for a width reduction that exceeds 4 calendar days to the Engineer no later than 30 calendar days prior to the start of the proposed width reduction. At a minimum, this request shall include:

1. Schedule showing the planned beginning date and end date of the width reduction.
2. Plans showing the limits and cross-sections showing the clear distance provided during the width reduction.
3. Details of available detour routes.
4. Plan to provide temporary windows of a minimum 16 foot width periodically during the width reduction, where possible.

The Engineer will reply, in writing, to the request within 7 calendar days. The Contractor shall immediately notify the Engineer if there are any changes to the schedule for the width reduction.

1-07.23(1).OPT7.FR1

**(October 3, 2022)**

**Public Notification**

The Contractor shall furnish and install information signs that provide advance notification of a ramp closure, roadway closure, or both, a minimum of *** $$1$$ *** working days prior to the closure. Sign locations, messages, letter sizes, and sign sizes are shown in the Plans.

The Contractor shall notify *** $$2$$ ***, in writing, a minimum of *** $$3$$ *** working days prior to each closure. The Contractor shall furnish copies of these notifications to the Engineer.

1-07.23(1).OPT8.FR1

**(October 3, 2022)**

**Maintenance and Protection of Ferry Traffic**

*** $$1$$ *** is a single-slip terminal. The slip must remain fully operational during all phases of construction.

The Contractor shall not interfere with terminal or vessel operations of the slips such that ferries do not arrive or depart on time. Every effort shall be made to ensure that construction materials and equipment remain within the bounds of designated staging areas as outlined in the Special Provisions.

The Contractor shall promptly and diligently remove any equipment, workers, or materials from the traveled way and shall promptly and diligently move any vessels, equipment, materials, or workers from the slip a minimum of 10 minutes prior to the scheduled or anticipated arrival of a ferry until 5 minutes subsequent to the departure of the ferry.

A safe environment for ferry operations, including vessels, vehicles, Washington State Ferries employees, and passengers — both offshore and on the dock — shall be maintained at all times.

The Contractor shall shield welding activities from ferries to protect the vision of the captains to the satisfaction of the Engineer. Welding activities shall be shielded to protect the safety of all persons in the area. Shielding is defined as surrounding the work area with a material through which light or spark are not transmitted.

The Contractor shall assign one employee to monitor approaching vessels and alert other workers to evacuate the work area if required. The worker will be equipped with an air horn or similar device suitable to warn workers and a radio capable of communicating with the ferry vessel captains.

Temporary steel plates shall not be used on the vehicle or pedestrian traveled way in any location for more than three calendar days.

**Payment**

All costs associated with maintenance and protection of traffic shall be incidental to and included in all other items of work.

1-07.23(1).OPT9.GR1

**(October 3, 2022)**

**Maintenance and Protection of Ferry Traffic**

The Contractor shall maintain access to and from the ferry vessels for both pedestrian and vehicular traffic at all times. The Contractor shall promptly and diligently remove any equipment, employees, or materials that would impede or delay ferry vessel arrivals or departures. The Contractor shall provide and maintain such barriers, barricades, signs, and lighting necessary to protect and safeguard pedestrians and vehicles as shown in the Plans. The Contractor shall keep all sidewalks, crosswalks, and other pedestrian routes and access points open and clear at all times unless permitted otherwise by the Engineer in an approved traffic control plan.

Temporary steel plates shall not be used on the vehicle or pedestrian traveled way in any location for more than three calendar days.

**Payment**

All costs associated with maintenance and protection of traffic shall be incidental to and included in other items of work.

1-07.23(1).OPT10.GR1

(October 3, 2022)

If July 4 occurs on a Tuesday, the prior Monday and Friday are considered to be part of a holiday weekend. If July 4 occurs on a Thursday, the following Friday and Monday are considered to be part of a holiday weekend.

1-07.24.GR1

## Rights of Way

1-07.24.INST1.GR1

Section 1-07.24 is supplemented with the following:

1-07.24.OPT1.FR1

(March 13, 1995)

The Contracting Agency has not completed the acquisition of title to the following described property:

*** $$1$$ ***

The Contractor shall not perform any work within these limits until ordered to do so by the Engineer. The Contracting Agency has estimated that the above described property will be available *** $$2$$ ***.

1-07.24.OPT1.GR1

***(October 3, 2022)***

***Sundry Site Plan***

The Sundry Site Plan is included in the Plans for the benefit of the Contractor. It is meant to give a graphical representation of the properties in the vicinity of the project site.

The Sundry Site Plan gives information necessary for locating Right-of-Way (R/W) lines, construction permit boundaries and permanent or construction easements.

Areas identified within R/W are made available to the Contractor for use as indicated in the Plans and Special Provisions.

1-07.28.GR1

## Railroads

1-07.28.INST1.GR1

Section 1-07.28 is supplemented with the following:

1-07.28.OPT1.FR1

***(October 3, 2022)***

***Additional Requirements for Working with the Railroad***

The term Railroad Company shall be understood to mean each of the following railroad companies:

*** $$1$$ ***

The Contractor shall keep the right of way and ditches of the Railroad Company open and clean from any deposits or debris resulting from its operations. The Contractor shall be responsible for the cost to clean and restore ballast of the Railroad Company which is disturbed or becomes fouled with dirt or materials when such deposits or damage result from the Contractor's operations, except as provided elsewhere.

The Contractor shall cooperate with the Railroad Company and so conduct operations that the necessary reconstruction of its facilities and the removal of existing facilities can be accomplished without interruption of service.

1-07.28.OPT2.FR1

(October 3, 2022)

The Contracting Agency has or will enter into an agreement with the Railroad Company as specified in these provisions as contained in Appendix *** $$1$$ ***.

1-07.28.OPT3.FR1

***(October 3, 2022)***

***Construction Work by Railroad Company***

The work by the Railroad Company as described below will be performed by the Railroad Company with its own forces at no cost to the Contractor:

*** $$1$$ ***

1-07.28(1).GR1

***General***

1-07.28(1).INST1.GR1

Section 1-07.28(1) is supplemented with the following:

1-07.28(1).OPT1.FR1

**(October 3, 2022)**

**Contractor's Right of Entry Agreement**

The Contractor shall obtain a Right of Entry Agreement from the railroad. For all matters regarding the Contractor's Right of Entry Agreement, the Contractor shall contact:

*** $$1$$ ***

The Contracting Agency has furnished a SAMPLE Contractor's Right of Entry Agreement in Appendix *** $$2$$ ***. The SAMPLE Contractor's Right of Entry Agreement is an example which represents the Contracting Agency's assessment of the likely terms and conditions prior to Advertisement for Bids. The final terms and conditions will be determined by the Railroad Company after Contract Execution.

The Contractor is at sole risk for the amount of time it takes to obtain the Right of Entry Agreement from the Railroad Company. Delays in obtaining the right of entry agreement shall not be eligible for a time extension or an equitable adjustment.

1-07.28(2).GR1

***Submittals and Working Drawings***

1-07.28(2).INST1.GR1

Section 1-07.28(2) is supplemented with the following:

1-07.28(2).OPT1.FR1

(October 3, 2022)

The Engineer will require up to *** $$1$$ *** calendar days from the date a Working Drawing is received until it is returned to the Contractor. If a submittal is returned unapproved and then resubmitted, then an additional review time for each subsequent resubmittal of up to *** $$2$$ *** calendar days will be required.

1-07.28(6).GR1

***Railroad Protective Services***

1-07.28(6).INST1.GR1

Section 1-07.28(6) is supplemented with the following:

1-07.28(6).OPT1.FR1

(October 3, 2022)

The Contractor shall notify the Railroad Company a minimum of *** $$1$$ *** in advance of whenever the Contractor is about to perform Work within Railroad Company property or within 25 feet of the centerline of tracks to enable the Railroad Company to provide flagging or other protective services.

The Railroad Company's contact to schedule flagging or other protective services is:

*** $$2$$ ***

1-07.28(8).GR1

***Measurement and Payment***

1-07.28(8).INST1.GR1

Section 1-07.28(8) is revised to read:

1-07.28(8).OPT1.GR1

(October 3, 2022)

The Contracting Agency will make payments to the Railroad for protective services unless:

1. Such services result from the Contractor's failure to comply with the terms and conditions of its contract with the Contracting Agency or with its Contractor's Right of Entry Agreements with the Railroad Company.

2. The Contractor fails to obtain authorization from the Engineer prior to coordinating with the Railroad Company for any flagging requiring overtime payments as specified under Railroad Safety and Flagging.

3. The Contractor arranges for assignment of a railroad flagger and alters project work so that a flagger is no longer needed, and adequate advance notice is not provided to the Railroad Company of such change in the need for a flagger (i.e., causing the Railroad Company to dispatch a flagger billable to the project when one is not required).

4. The Contractor causes an emergency, as specified under Railroad Operations.

5. Protective services are required as a result of a request to the Railroad Company for the Contractor's convenience.

6. The Contract provides for a bid item in the Contract.

All costs to comply with this Section, unless otherwise stated, are incidental to the Contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the unit Bid prices of the Contract.

Page Intentionally Left Blank

1-08.GR1

## Prosecution and Progress

1-08.1.GR1

## Subcontracting

1-08.1.INST1.GR1

Section 1-08.1 is supplemented with the following:

1-08.1.OPT1.GR1

(~~June 3, 2019~~October 3, 2022)

Prior to any subcontractor or lower-tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision **Federal Agency Inspection**.

A ~~S~~subcontractor or lower-tier ~~S~~subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer:

1. Request to Sublet Work (WSDOT Form 421-012), and
2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid Projects (WSDOT Form 420-004).

The Contractor shall submit a completed Monthly Retainage Report (WSDOT Form 272-065) within 15 calendar days after receipt of every monthly progress payment until every ~~S~~subcontractor and lower tier ~~S~~subcontractor's retainage has been released. This form shall be submitted to the Engineer by email to the following email address for the region administering the Contract:

Eastern Region – ERegionOEO@wsdot.wa.gov
North Central Region – NCRegionOEO@wsdot.wa.gov
Northwest Region – NWRegionOEO@wsdot.wa.gov
Olympic Region – ORegionOEO@wsdot.wa.gov
South Central Region – SCRegionOEO@wsdot.wa.gov
Southwest Region – SWRegionOEO@wsdot.wa.gov
Washington State Ferries – FerriesOEO@wsdot.wa.gov

The Contractor's records pertaining to the requirements of this Special Provision shall be open to inspection or audit by representatives of the Contracting Agency during the life of the contract and for a period of not less than three years after the date of acceptance of the contract. The Contractor shall retain these records for that period. The Contractor shall also guarantee that these records of all ~~S~~subcontractors and lower-tier ~~S~~subcontractors shall be available and open to similar inspection or audit for the same time period.

~~1-08.1.OPT2.FR1~~

~~***(March 13, 1995)***~~

~~***Specialty Items***~~

~~For the purpose of determining the percentage of work that may be subcontracted, the following items on this contract are designated as Specialty Items:~~

~~*** $$1$$ ***~~

1-08.1.OPT3.GR1

***(March 13, 1995)***

***Qualifications of Building Contractor***

If the Contractor is not prequalified for building construction or cannot demonstrate satisfactory experience in constructing the general type of building included in the project, it will be mandatory that the building work be subcontracted to a firm which can meet one or both of these criteria.

1-08.3.GR1

## Progress Schedule

1-08.3(1).GR1

***General Requirements***

1-08.3(1).INST1.GR1

The first sentence of Section 1-08.3(1) is revised to read:

1-08.3(1).OPT1.GR1

(August 6, 2006)

The Contractor shall submit Type C Progress Schedules and Schedule Updates to the Engineer for approval.

1-08.3(1).INST2.GR1

Section 1-08.3(1) is supplemented with the following:

1-08.3(1).OPT2.FR1

(October 3, 2022)

In addition to information required in Items 1 through 6, the Progress Schedule shall include the following milestones and/or activities:

*** $$1$$ ***

1-08.3(2).GR1

***Progress Schedule Types***

1-08.3(2).INST3.GR1

Section 1-08.3(2) is supplemented with the following:

1-08.3(2).OPT2.FR1

**(September 7, 2021)**

**Type C Progress Schedule**

Type C progress schedules shall conform to all of the requirements of Section 1-08.3(2)B and this Section.

The Contractor shall submit an electronic copy of a preliminary Type C progress schedule no later than the first working day as defined in Section 1-08.5. The preliminary schedule shall comply with the requirements of this special provision and the requirements of Section 1-08.3(1), except that it may be limited to only those activities occurring within the first 60 working days of the project.

The Contractor shall submit the Type C progress schedule for all Work no later than 60 calendar days after the date the contract is executed.

Each time that a preliminary schedule, progress schedule, or schedule update is submitted, the Contractor shall provide the Engineer with an electronic copy (.XER or .XML file type extension) of that schedule. Each submitted progress and update schedule shall have a unique file name and date identifier. Regardless of the type of software used, the schedule data provided to the Engineer shall be submitted to the Engineer in a compatible format of Primavera Project Manager Enterprise P6.

The current version of Primavera Project Manager Enterprise P6 is *** $$1$$ ***.

Type C progress schedules shall display at least the following additional information:

1. A time scaled logic diagram.
2. Activities for traffic detours and closures.
3. Milestones for required delivery of State furnished materials, if any.
4. Activities for State furnished traffic control resources, if any.
5. Activities for fabrication of materials longer than 90 calendar days lead time.
6. Fixed constraints shall be identified on the activity listing, supplemented with a written narrative describing why the constraint exists.
7. Milestones for interim or stage completion dates.
8. Activities for scheduled outages on illumination systems, ITS systems, traffic signal systems and other electrical service outages.
9. Nighttime activities shall be so coded.
10. Activities for all submittals requiring State review, including the allowable review duration.

All calendars used shall be created as project calendars, not global or resource calendars. If multiple calendars are applied to the progress schedule, the Contractor shall submit a written narrative describing each one's purpose.

Schedule files shall not contain User Defined Fields (UDF's), all activity codes shall be project level, no resources shall be assigned to activities and no project codes shall be assigned.

If requested by the Engineer, the Contractor shall supplement the progress schedule with written explanations for each lead and lag time used, and a written explanation describing the assumed production rates and planned resource allocations to support the activity durations provided in the schedule. The written

explanations shall be documented as a notebook topic under “Assumptions and Basis”.

1-08.3(3).GR1

***Schedule Updates***

1-08.3(3).INST1.GR1

Section 1-08.3(3) is revised to read:

1-08.3(3).OPT1.GR1

(June 6, 2022)

The Contractor shall submit an electronic copy of a Type C Schedule Update to the Engineer by the first business day of each month, starting the month after the Progress Schedule is accepted, or some other mutually agreed upon submittal time.

In addition to the other requirements of this Section, Schedule Updates shall reflect at least the following information:

1. The actual duration and sequence of as-constructed work activities, including changed work.

2. Approved time extensions.

3. Any construction delays or other conditions that affect the progress of the work.

4. Any modifications to the as-planned sequence or duration of remaining activities, supplemented with a written narrative describing each change and the reason for the change.

5. The physical completion of all remaining work in the remaining contract time.

6. Progress on partially completed activities shall be indicated using percent complete.

Activity numbers on Schedule Updates shall be the same as the Progress Schedule, with the exception of deleted or added activities.

Unresolved requests for time extensions shall be reflected in the Schedule Update by assuming no time extension will be granted, and by showing the effects to follow-on activities necessary to physically complete the project within the currently authorized time for completion.

1-08.3(4).GR1

***Measurement***

1-08.3(4).INST1.GR1

Section 1-08.3(4) is supplemented with the following:

1-08.3(4).OPT1.GR1

(August 5, 2013)

Schedule Updates will be measured per each for each update submitted and approved per the requirements of Section 1-08.3(3). Schedule updates that are returned for correction will not be measured.

1-08.3(5).GR1

***Payment***

1-08.3(5).INST1.GR1

Section 1-08.3(5) is supplemented with the following:

1-08.3(5).OPT1.GR1

(September 7, 2021)

Payment will be made for the following bid item when it is included in the proposal:

"Schedule Update", per each.

The unit Contract price per each "Schedule Update" shall be full payment for all costs required to complete the work specified in Section 1-08.3(3).

1-08.3(5).OPT2.GR1

(September 7, 2021)

Payment will be made for the following Bid item when it is included in the Proposal:

"Type C Progress Schedule", lump sum.

The lump sum price shall be full pay for all costs for furnishing the Type C Progress Schedule and preliminary Type C Progress Schedule.

Payment of 80 percent of the lump sum price will be made upon approval of the Progress Schedule.

Payment will be increased to 100 percent of the lump sum price upon completion of 80 percent of the original total Contract Award amount.

1-08.4.GR1

## Prosecution of Work

1-08.4.INST1.GR1

The first sentence of Section 1-08.4 is revised to read:

1-08.4.OPT1.FR1

(August 3, 2015)

The Contractor shall commence onsite work on or before *** $$1$$ *** and shall notify the Engineer in writing a minimum of 10 calendar days in advance of the date on which the Contractor intends to begin work.

1-08.4.OPT2.GR1

(August 7, 2006)

The Contractor shall begin work no earlier than the begin work date stated in the written notice provided by the Engineer. The Engineer will provide a minimum of 10 calendar days written notice for the date identified as the first working day.

1-08.4.OPT3.FR1
(August 7, 2006)
The Contractor shall begin work no earlier than *** $$1$$ ***.

1-08.5.GR1
## Time for Completion

1-08.5.INST1.GR1
The third paragraph of Section 1-08.5 is revised to read:

1-08.5.OPT1.FR1
(August 7, 2006)
Contract time shall begin on the date stated in the written notice provided to the Contractor. In no case shall the beginning of contract time be prior to ***$$1$$*** or later than *** $$2$$ ***.

1-08.5.OPT2.FR1
(August 7, 2006)
Contract time shall begin on the first working day. The first working day shall be *** $$1$$ ***.

1-08.5.INST2.GR1
Section 1-08.5 is supplemented with the following:

1-08.5.OPT7.FR1
(March 13, 1995)
This project shall be physically completed within *** $$1$$ *** working days.

1-08.5.OPT8.FR1
(March 13, 1995)
This project shall be physically completed in its entirety within *** $$1$$ *** working days and the temporary traffic signal portion of the project shall be physically completed within the first *** $$2$$ *** working days.

1-08.5.OPT9.FR1
(December 4, 2006)
This project shall be physically completed within *** $$1$$ *** working days.

Contract time shall begin on the first working day the Contractor starts onsite work or *** $$2$$ ***, whichever occurs first.

1-08.5.OPT10.FR1
(March 13, 1995)
This project shall be physically completed within *** $$1$$ *** working days. Contract time shall commence on the first working day:

1. Following 60 calendar days after contract execution; or,

2. That the Engineer and the Contractor agree to start work after approval of construction materials is obtained, whichever occurs first.

The Contractor is allowed a maximum of 60 calendar days after execution of the contract to obtain approvals for construction materials

1-08.5.OPT11.FR1

***(August 4, 2003)***

***Incentive for Early Completion***

It is essential that the Contracting Agency has full and unrestricted use of the facilities at the earliest possible time. As an incentive to the Contractor, the Contracting Agency will pay the Contractor *** $$1$$ *** for each working day remaining in the contract prior to the established *** $$2$$ *** completion date, but not to exceed an amount equal to *** $$3$$ ***.

The days eligible for the incentive will be calculated by subtracting the working days elapsed through the date of *** $$4$$ *** completion from the total working days established in the Special Provision **TIME FOR COMPLETION**.

1-08.6.GR1

## Suspension of Work

1-08.6.INST1.GR1

Section 1-08.6 is supplemented with the following:

1-08.6.OPT1.FR1

(January 3, 2017)

Contract time may be suspended for the HMA mix design evaluation report or for procurement of critical materials (Procurement Suspension). In order to receive a Procurement Suspension, the Contractor shall within 21 calendar days after execution by the Contracting Agency, submit all HMA mix designs not already on the QPL according to Section 5-04.2(1) or place purchase orders for all materials deemed critical by the Contracting Agency for Physical Completion of the Contract. The Contractor shall provide a copy of the completed WSDOT Form 350-042 indicating the date the mix design was submitted, or copies of purchase orders for the critical materials. Such purchase orders shall disclose the purchase order date and estimated delivery dates for such critical material.

The Contractor shall show the HMA mix design evaluation report or procurement of the critical materials listed below as activities in the Progress Schedule. If the approved Progress Schedule indicates that acceptance of the HMA mix designs or materials procurement are critical activities, and if the Contractor has provided documentation that purchase orders are placed for the critical materials within the prescribed 21 calendar days, then Contract time will be suspended upon Physical Completion of all critical work except that work dependent upon the below listed critical materials:

*** $$1$$ ***

Charging of Contract time will resume upon the Contractor's receipt of a WSDOT mix design evaluation report or delivery of the critical materials to the Contractor, notification that the critical materials are ready for delivery to the Contractor from the Contracting Agency's Materials Laboratory, or *** $$2$$ *** calendar days after execution by the Contracting Agency, whichever occurs first.

No additional Procurement Suspension will be provided if the Contractor's HMA mix designs did not meet Contract requirements and are resubmitted.

1-08.6.OPT2.FR1

(January 2, 2018)

Contract time may be suspended for procurement of critical materials (Procurement Suspension). In order to receive a Procurement Suspension, the Contractor shall within 21 calendar days after execution by the Contracting Agency, place purchase orders for all materials deemed critical by the Contracting Agency for physical completion of the contract. The Contractor shall provide copies of purchase orders for the critical materials. Such purchase orders shall disclose the purchase order date and estimated delivery dates for such critical material.

The Contractor shall show procurement of the materials listed below as activities in the Progress Schedule. If the approved Progress Schedule indicates that the materials procurement are critical activities, and if the Contractor has provided documentation that purchase orders are placed for the critical materials within the prescribed 21 calendar days, then contract time will be suspended upon physical completion of all critical work except that work dependent upon the below listed critical materials:

*** $$1$$ ***

Charging of contract time will resume upon delivery of the critical materials to the Contractor or 120 calendar days after execution by the Contracting Agency, whichever occurs first.

1-08.9.GR1

## Liquidated Damages

1-08.9.INST2.GR1

Section 1-08.9 is revised to read:

1-08.9.OPT1.FR1

(March 13, 1995)

Liquidated damages in the amount of *** $$1$$ *** per working day will be assessed for failure to physically complete the temporary traffic signal portion of the contract within the physical completion time specified. Liquidated damages in an amount based upon the original contract amount and original time, will be assessed for failure to physically complete the entire project within the physical completion time specified. Such damages will accrue separately for each phase or stage of work. In the event damages occur on a concurrent date, the larger of the two damages will apply for such days.

1-08.9.OPT2.FR1

(April 6, 2009)

Delayed completion of *** $$1$$ *** will result in impacts to the traveling public, increase fuel consumption, increase vehicle operating costs, increase pollution, and cause other inconveniences and harm.

Accordingly, the Contractor agrees:

1. To pay *** $$2$$ *** liquidated damages per *** $$3$$ *** for each *** $$4$$ *** prorated to the nearest *** $$5$$ *** that the work is not completed as specified in *** $$6$$ ***.

2. To authorize the Engineer to deduct these liquidated damages from any money due or coming due the Contractor.

1-08.9.INST3.GR1
Section 1-08.9 is supplemented with the following:

1-08.9.OPT3.FR1
(September 8, 2020)
Liquidated damages in the amount of *** $$1$$ *** per working day will be assessed for failure to physically complete the Contract within the physical completion time specified.

Page Intentionally Left Blank

1-10.GR1

# Temporary Traffic Control

1-10.1.GR1

## General

1-10.1.INST1.GR1

Section 1-10.1 is supplemented with the following:

1-10.1.OPT1.FR1

(April 1, 2013)

The Contracting Agency will provide the following labor, equipment and/or materials resources to the Contractor for use on the project.

*** $$1$$ ***

The Contractor shall notify the Engineer when each resource is to be utilized and shall provide a minimum of *** $$2$$ *** working days advance notice to allow any necessary arrangements to be made.

1-10.1.OPT2.FR1

(May 20, 2020)

The Contracting Agency has arranged for the Washington State Patrol (WSP) to perform the following tasks during the project:

*** $$1$$ ***

There shall be no entitlement for any impacts for any reason as a result of WSP personnel.

WSP personnel may not be used for any other work without prior acceptance from the Engineer. The acceptance will identify the added work allowed, the terms under which the WSP personnel may be used for the added work, and how the cost of the added work will be shared by the Contractor and Contracting Agency.

This resource is provided at no additional cost to the Contractor for the initial *** $$2$$ *** hours and includes all costs (e.g., WSP labor, vehicle miles, etc.). Additional hours of WSP personnel may be requested by the Contractor. If allowed by the Engineer, the cost for these hours will be shared by the Contracting Agency and the Contractor. The Contractor's share of the cost for additional hours will be one-half of the amount billed by the law enforcement agency.

All costs for cancelled work due to unsuitable weather will be shared by the Contracting Agency and the Contractor. The Contractor's share of the cost for cancelled work will be one-half of the amount billed by the law enforcement agency, regardless of when the actual work occurs. All costs for cancelled work for any other reason shall be the full responsibility of the Contractor.

The Contractor's share of costs for additional hours of uniformed law enforcement personnel will be credited to the Contracting Agency under the bid item "WSP Reimbursement", by calculation.

1-10.1(1).GR1

***Materials***

1-10.1(1).INST1.GR1

Section 1-10.1(1) is supplemented with the following:

1-10.1(1).OPT1.GR1

**(January 10, 2022)**

**Automated Flagger Assistance Devices**

Automated Flagger Assistance Devices (AFADs) shall meet the requirements of the MUTCD Red/Yellow Lens Automated Flagger Assistance Devices.

1-10.2.GR1

## Traffic Control Management

1-10.2(1).GR1

***General***

1-10.2(1).INST1.GR1

Section 1-10.2(1) is supplemented with the following:

1-10.2(1).OPT1.GR1

(~~January 10, 2022~~October 3, 2022)

The Traffic Control Supervisor shall be certified by one of the following:

The Northwest Laborers-Employers Training Trust
27055 Ohio Ave.
Kingston, WA 98346
(360) 297-3035
https://www.nwlett.edu

Evergreen Safety Council
12545 135th Ave. NE
Kirkland, WA 98034-8709
1-800-521-0778
https://www.esc.org

The American Traffic Safety Services Association
15 Riverside Parkway, Suite 100
Fredericksburg, Virginia 22406-1022
Training Dept. Toll Free (877) 642-4637
Phone: (540) 368-1701
https://a~~l~~tssa.com/training

Integrity Safety
13912 NE 20th Ave.
Vancouver, WA 98686
(360) 574-6071
https://www.integritysafety.com

US Safety Alliance
(904) 705-5660

https://www.ussafetyalliance.com

K&D Services Inc.
2719 Rockefeller Ave.
Everett, WA 98201
(800) 343-4049
https://www.kndservices.net

1-10.2(1).OPT2.GR1

(January 5, 2015)

The primary TCS shall have a minimum of 500 hours of experience providing traffic control as a TCS or traffic control labor on multilane highways with a speed limit of 55 mph or greater. The Contractor shall submit a certification of the TCS's experience with the TCS designation. Documentation of experience shall be available upon request by the Engineer.

1-10.2(9-35).GR1

***Temporary Traffic Control Materials***

Section 9-35 is supplemented with the following:

1-10.2(9-35).OPT1.GR1

(October 3, 2022)

Temporary portable transverse rumble strips must be either the black RoadQuake 2 or the black RoadQuake 2F Folding Temporary Portable Rumble Strip manufactured by Plastic Safety Systems, Inc., all black Traffix Alert High Speed Rumble Strip manufactured by Traffix Devices or an approved equal.

Devices submitted for approval shall meet the following criteria:

1. Length will be a minimum of 11 feet long.

2. Width will be a minimum of 10 inches.

3. Provides a bevel on leading edge.

4. Weighs a minimum of 100 lbs.

5. No greater than ¾-inch profile height.

6. Flexible along the length of the strip to facilitate conformity to the road surface.

7. Withstands temperatures 0 to 180 degrees Fahrenheit without degradation in deployment, use or safety.

8. Function on roads with posted speed limits up to 70 mph; and retain original placement with minimal movement such that performance is not compromised.

9. Deemed safe by the manufacturer for use by motorcycles.

1-10.3.GR1

## Traffic Control Labor, Procedures and Devices

1-10.3.INST1.GR1

Section 1-10.3 is supplemented with the following:

1-10.3.OPT1.FR1

***(May 20, 2020)***

***Contractor Provided Uniformed Police Officers***

The Contractor shall provide, direct, and monitor Uniformed Police Officers having jurisdiction to control traffic in accordance with the Plans. A uniformed police officer (UPO) is a sworn police officer from a local law enforcement agency or a Washington State Patrol officer. The UPO shall provide traffic control as shown in an accepted traffic control plan.

The following contact information for potential service providers is supplied for the Contractor's convenience:

*** $$1$$ ***

1-10.3(3).GR1

***Traffic Control Devices***

1-10.3(3).INST1.GR1

Section 1-10.3(3) is supplemented with the following:

1-10.3(3).OPT1.GR1

**(January 10, 2022)**

**Automated Flagger Assistance Devices**

**General**

Where shown on an accepted traffic control plan, the Contractor shall provide, operate and maintain AFADs.

An AFAD is a self-contained, portable traffic control system that enables a flagger to avoid standing on the roadway while still controlling road users alternating through a single open lane.

**AFAD Operation**

Each AFAD shall be controlled only by a flagger who has been trained on the operation of the AFADs by a manufacturer or supplier representative in addition to the requirements in accordance with Section 1-10.3(1)A. The flagger shall be positioned to visually see both the AFAD and approaching traffic. When this is not feasible, digital alternatives are allowable. The flagger is prohibited from leaving the AFAD unattended at any time while the AFAD is in operation and controlling traffic.

If AFAD repairs are required, the Contractor shall control traffic with flaggers and stop/slow paddles and the AFAD shall be repaired or replaced within 48 hours.

**AFAD Location and Use**

An AFAD shall only be used in situations where there is only one lane of approaching traffic in the direction to be controlled. AFADs shall not be used

within 1500 feet of existing or temporary traffic signals. When used at night, the AFAD location shall be illuminated in accordance with Section 1-10.3(1)A.

The AFAD may be positioned up to the edge of the open travel lane without any lateral clearance, but only the AFAD gate arm can be within the open travel lane when traffic is being stopped. The AFAD shall be delineated by at least 3 transverse channelization devices in advance when not within a closed lane or shoulder.

The "STOP HERE ON RED" R10-6 (24"x36", B/W) or R10-6a (24"x36", B/W) sign may be attached to the AFAD below the Red/Yellow lens. The AFAD may have a supplemental amber LED changeable message sign with minimum 10-inch characters attached to provide road users additional information, provided it does not block any signal display or signage.

The Engineer may order adjustments to the location as needed based on traffic and field conditions. The Contractor shall avoid placing the AFAD within or immediately following horizontal and/or vertical curves when feasible.

**Setup and Takedown**

During the setup and take down operation of the work area, the AFAD display shall be set to a yellow flash mode when the signal heads are deployed into normal operating position.

Except during setup prior to use and removal after use, the AFAD shall be removed from the work zone clear zone when not in use unless protected by barrier or guardrail.

1-10.3(3).OPT2.GR1

**(January 2, 2018)**

**Radar Speed Display Sign**

Where shown on an approved traffic control plan or where ordered by the Engineer, the Contractor shall provide, operate, and maintain radar speed display signs (RSDS). A RSDS shall be placed with a minimum of 4 ft. of lateral clearance to edge of a travelled lane and be delineated by channelization devices. The Contractor shall remove the RSDS from the clear zone when not in use unless protected by barrier or guardrail.

1-10.3(3).OPT3.FR1

**(~~September 7, 2021~~October 3, 2022)**

**Smart Work Zone System**

Where shown on an approved traffic control plan, the Contractor shall provide, operate, maintain, and remove a Smart Work Zone System. A Smart Work Zone System (SWZS) uses portable roadside sensor information to display real-time dynamic work zone traffic information and instructions to motorists on a series of Portable Changeable Message Signs (PCMSs) approaching a work zone.

The SWZS shall be capable of communicating three types of work zone traffic information:

1. **Queue detection warning** for slowed or queued traffic ahead.

2. **Dynamic lane merge** guidance to use all open lanes up to the lane closure tapers and zipper merge instructions during times of congestion.

3. **Work zone travel delay** for current work zone delays in minutes.

In locations with multiple SWZS setups each setup shall be capable of operating independently. One SWZS Technician may operate all systems concurrently.

**Vendor**

The Contractor shall select an independent vendor listed below to provide the SWZS as shown on an approved SWZS Plan:

~~**Street Smart**~~
~~Phone: (888) 653-6800~~
~~Website: https://www.streetsmartrental.com/smart-work-zones/~~

**Hill and Smith Inc.**
Phone: (302) 328-3220
Website: https://www.hillandsmith.com/portfolio_category/its-smart-work-zone/

**ICONE by ICONE Products**
Phone: (315) 626-6800
Website: http://iconeproducts.com/

**Road-Tech Safety Services, Inc.**
Phone: (888) 762-3832
Website: https://www.road-tech.com/

**Salander LLC**
Phone: (812) 777-5637
Website: https://www.slndrtech.com/

**SolarTech**
Phone: (610) 391-8600
Website: http://solartechnology.com/

**Street Smart**
Phone: (888) 653-6800
Website: https://www.streetsmartrental.com/smart-work-zones/

Superior Traffic Services
Phone: (888) 928-5999
https://www.superiortrafficservices.com/

**Ver-Mac**
Phone: (888) 488-7446
Website: https://www.ver-mac.com/en/jamlogic-software/smart-work-zones

**WANCO**
Phone: (800) 972-0755
Website: https://www.wanco.com

**Devices and Communications**

The Contractor and/or Vendor shall provide all devices necessary to operate the system in accordance with the accepted traffic control plans and these specifications.

The traffic sensors shown in the traffic control plans in advance of lane closure tapers are used to operate the SWZS by detecting vehicle speed approaching the lane closures, where queuing is expected. Typically, these traffic sensors use Doppler radar technology.

Separate side-fire traffic sensor(s), Wavetronix SmartSensor HD or similar accepted by the Engineer, shall be post-mounted or trailer-mounted to obtain traffic volume/speed data where shown in the traffic control plans. If not shown, then the side-fire traffic sensor shall be placed after the final lane closure taper but before lanes are reopened or any open on-ramps to measure the following:

1. Traffic volume, in vehicles per hour per open lane

2. Speed – time graph used to determine the median & 85th percentile speed in each open lane

The Contractor shall use and relocate as necessary side-fire traffic sensor(s) at locations compatible with lane closures. As an alternative, multiple side-fire traffic sensors can be used throughout the project limits provide the traffic volume/speed data remains accurate.

A vendor website or other wireless remote system is required for monitoring SWZS functions and remote management of PCMS messages.

**Technician**

The Vendor shall provide a technician skilled in the operation of all system equipment and software. The technician may be an employee of the Vendor or someone trained and authorized by the Vendor to operate the system. The technician shall be independent of the Contractor and Traffic Control Supervisor but shall collaborate and coordinate as appropriate. The technician shall be on site while the SWZS is in use and able to respond to system issues in person.

Duties of the Technician include, but are not limited to, the following:

1. Program the automated, real-time operation of the SWZS with traffic sensor trigger speed thresholds and PCMS messages shown on the approved SWZS Plan.

2. Service, debug, troubleshoot, and maintain all SWZS components.

3. Maintain SWZS equipment maintenance logs.

4. Collect and process system data and provide data as described below:

    a. **System Data** – System data shall include:

        i. Data in table format of traffic volume (vehicles per hour per each open lane), 50th-percentile traffic speed of all open lanes, and

85th-percentile traffic speed of all open lanes for 15-minute intervals organized by Day and Hour of day for each SWZS implementation measured by the side-fire traffic sensor.

ii. Day and Hour of day each traffic sensor was triggered, and the message displayed on each PCMS while the SWZS is in use.

b. **Agency Access to System Data** – Provide password protected access to the Engineer and identified Agency personnel to the System Data via a dedicated website or other wireless remote system.

c. **Provide System Data to Agency** – At the completion of the Project, provide System Data logs in an electronic format approved by the Engineer.

5. Immediately respond to all system failures in accordance with the **Smart Work Zone System Failure Protocol** section of these Specifications.

**Operation**

Operate the SWZS according to the following:

**Scheduled Use**

Use a dynamic lane merge, queue detection warning, and work zone travel delay system on the following roadway(s), locations, and work operations:

*** $$1$$ ***

**Installation, Relocation, Removal, and Storage**

The Contractor shall store, install, relocate, and remove all the SWZS components as follows:

1. Install all components with the SWZS Technician's concurrence at least 30 minutes prior to commencing the first lane closure

2. Relocate components as necessary with the SWZS Technician's concurrence

3. Assist the Technician as needed when the Smart Work Zone System Failure Protocol occurs

4. Remove all components within the Work Zone Clear Zone within 60 minutes when no longer required unless components are placed behind guardrail or barrier.

**Initial SWZS Turn-On Meeting**

The Contractor shall arrange a meeting at least one week before the initial system turn-on.

The meeting shall include the Contractor, Traffic Control Manager, Traffic Control Supervisor, Alternative Traffic Control Supervisor (if applicable), SWZS Technician, and WSDOT Project Engineering Office staff.

During this meeting, the following topics should be discussed at a minimum:

1. Provide and review the approved traffic control plans, including lane closure plans and the associated SWZS plan that will be used.

2. Review roles and responsibilities for implementation of the SWZS.

3. Provide contact information for critical personnel.

4. Provide a schedule of the anticipated operation times, dates and durations for the initial operation.

5. Review Measurement and Payment for duties related to SWZS installation, operation, and removal.

**SWZS Operation Coordination and Collaboration**
The Contractor shall notify the Engineer at least 72 hours in advance of using the SWZS including providing a schedule of the anticipated operation times, dates and durations for each subsequent operation.

The Contractor's Traffic Control Management shall coordinate and collaborate as needed for the successful implementation of the SWZS and associated lane closures. Any delays and associated costs due to implementing the SWZS shall be at the Contractor's expense.

**Smart Work Zone System Failure Protocol**
In the event of a failure, perform the following protocol:

1. **SWZS Technician** – Upon discovery of the malfunction, perform the following:

   a. Immediately notify Contractor Traffic Control Management.

   b. Begin troubleshooting the SWZS to address the malfunction.

   c. If the malfunction is not resolved within 15 minutes, notify Contractor Traffic Control Management. The SWZS shall be taken out of service and repaired within 12 hours of the malfunction.

2. **Contractor Traffic Management** – After receiving the initial notification of the malfunction, perform the following:

   a. Notify the Traffic Control Supervisor.

   b. Prepare crews to immediately implement the Emergency PCMS Implementation if the malfunction is not resolved within 15 minutes.

   c. Notify the Engineer of the malfunction and failure protocol status.

d. Collaborate with SWZS Technician to provide replacement parts needed to make repairs to the SWZS within 12 hours of the system or a system component malfunction.

3. **Emergency PCMS Implementation** – If the SWZS Technician has not resolved the issue within 15 minutes, perform following failure protocol:

a. Install two PCMSs as described below until the SWZS is repaired, functioning properly, and back in service or until all lane closures have been reopened. The PCMSs may be from the SWZS if needed.

i. PCMS #1: Maintain positioned 0.5 ± mile in advance of traffic queue, relocated as necessary, except when no traffic queue is present. PCMS #1 may be truck-mounted.

| Phase 1 | Phase 2 |
|---|---|
| SLOW OR | NEXT |
| STOPPED | # |
| TRAFFIC | MILES |

Where "#" is the approximate queue length rounded up to the nearest mile

ii. PCMS #2: Place 1.5 ± mile in advance of first lane closure taper. Program message as appropriate. Phase 1 is to describe the current lane closure in place. Phase 2 is to describe the distance ahead to the beginning of the first lane closure rounded up to the nearest 0.5 mile interval. For example, if a double right lane closure is 1.5 mile ahead, the PCMS message would be: "2 RIGHT LANES CLOSED" / "1.5 MILE AHEAD".

1-10.3(3).OPT4.FR1

**(~~September 7, 2021~~October 3, 2022)**

**Queue Warning System**

Where shown on an accepted traffic control plan, the Contractor shall provide, operate, maintain, and remove a Queue Warning System. A Queue Warning System (QWS) uses portable roadside sensor information to display real-time traffic queue information to motorists on Portable Changeable Message Signs (PCMS) approaching a work zone. QWS is a simplified smart work zone system intended for work zone queues up to 2 miles, measured from the first lane closure taper, but may be modified for queuing up to 3 miles by extending spacing between the two PCMSs from 1± mile to 1.5 ± mile spacing and adjusting the PCMS messages. Traffic sensor placement remains unchanged.

The QWS shall be capable of communicating two types of work zone traffic information:

1. **Queue detection warning** for slowed or queued traffic ahead.

2. **Dynamic lane merge** guidance to use all open lanes up to the lane closure tapers and to take turns at merges during times of congestion.

In locations with multiple QWS setups each setup shall be capable of operating independently. One QWS Technician may operate all systems concurrently.

**Vendors**

The Contractor shall select an independent vendor listed below to provide a QWS as shown on an accepted traffic control plan:

**Hill and Smith Inc.**
Phone: (302) 328-3220
Website: https://www.hillandsmith.com/portfolio_category/its-smart-work-zone/

**ICONE by ICONE Products**
Phone: (315) 626-6800
Website: http://iconeproducts.com/

**Road-Tech Safety Services, Inc.**
Phone: (888) 762-3832
Website: https://www.road-tech.com/

**Salander LLC**
Phone: (812) 777-5637
Website: https://www.slndrtech.com/

**SolarTech**
Phone: (610) 391-8600
Website: http://solartechnology.com/

**Street Smart**
Phone: (888) 653-6800
Website: https://www.streetsmartrental.com/smart-work-zones/

**Ver-Mac**
Phone: (888) 488-7446
Website: https://www.ver-mac.com/en/jamlogic-software/smart-work-zones

**WANCO**
Phone: (800) 972-0755
Website: https://www.wanco.com

**Devices and Communications**

The Contractor and/or Vendor shall provide all devices necessary to operate the system in accordance with the accepted traffic control plans and these specifications.

The traffic sensors shown in the traffic control plans in advance of lane closure tapers are used to operate the SWZS by detecting vehicle speed approaching the lane closures, where queuing is expected. Typically, these traffic sensors use Doppler radar technology.

A vendor website or other wireless remote system is required for monitoring QWS functions and remote management of PCMS messages.

**Technician**
The Vendor shall provide a technician skilled in the operation of all system equipment and software. The technician may be an employee of the Vendor or someone trained and authorized by the Vendor to operate the system. The technician may be Contractor or ~~S~~subcontractor personnel, including the Traffic Control Supervisor. The technician is not required be on site while the QWS is in use but must be able to respond to any system issues remotely.

Duties of the Technician or trained traffic control personnel include, but are not limited to, the following:

1. Program the automated, real-time operation of the QWS with traffic sensor trigger speed thresholds and PCMS messages shown on the accepted traffic control plan or in these Specifications.

2. Service, debug, troubleshoot, and maintain all QWS components.

3. Maintain QWS equipment maintenance logs.

4. Immediately respond to all system failures in accordance with the **Queue Warning System Failure Protocol** section of these Specifications.

**Operation**
Operate the QWS according to the following:

**Scheduled Use**
Use the QWS on the following roadway(s), locations, and work operations:

*** $$1$$ ***

**Installation, Relocation, Removal, and Storage**
The Contractor or ~~S~~subcontractor shall store, install, relocate, and remove all the QWS components as follows:

1. Install all QWS components with the QWS Technician's concurrence prior to commencing the first lane closure.

2. Relocate components as necessary with the QWS Technician's concurrence.

3. Assist the Technician as needed when the Queue Warning System Failure Protocol occurs.

4. Remove all components within the Work Zone Clear Zone when no longer required unless components are placed behind guardrail or barrier.

**QWS Operation Coordination and Collaboration**
The Contractor shall notify the Engineer at least 72 hours in advance of using the QWS including providing a schedule of the anticipated operation times, dates and durations for each subsequent operation.

The Contractor's Traffic Control Management shall coordinate and collaborate as needed for the successful implementation of the QWS and associated lane closures. Any delays and associated costs due to implementing the QWS shall be at the Contractor's expense.

**Queue Warning System Failure Protocol**

In the event of a failure that is not resolved within 15 minutes, reprogram QWS PCMSs to display the following message for the remainder of the Scheduled Use duration:

| PCMS 1 | | PCMS 2 | |
|---|---|---|---|
| Phase 1 | Phase 2 | Phase 1 | Phase 2 |
| WATCH | NEXT | (Lane) | 1 |
| FOR SLOW | 2 | (Closure) | MILE |
| TRAFFIC | MILES | (Description) | AHEAD |
| **2.0 SEC** | **2.0 SEC** | **2.0 SEC** | **2.0 SEC** |
| PCMS 1 placed 2± miles from first lane closure taper | | PCMS 2 placed 1± mile from first lane closure taper | |

(Lane Closure Description) message is similar to LEFT LANE CLOSED or LEFT 2 LANES CLOSED.

If the QWS as modified for queuing up to 3 miles, then modify the messaging as follows:

| PCMS 1 | | PCMS 2 | |
|---|---|---|---|
| Phase 1 | Phase 2 | Phase 1 | Phase 2 |
| WATCH | NEXT | (Lane) | 1.5 |
| FOR SLOW | 3 | (Closure) | MILES |
| TRAFFIC | MILES | (Description) | AHEAD |
| **2.0 SEC** | **2.0 SEC** | **2.0 SEC** | **2.0 SEC** |
| PCMS 1 placed 3± miles from first lane closure taper | | PCMS 2 placed 1.5± miles from first lane closure taper | |

1-10.3(3).OPT5.GR1

**(October 3, 2022)**

**Temporary Portable Transverse Rumble Strips**

Where shown on a traffic control plan, the Contractor shall provide, install, and maintain temporary portable transverse rumble strips.

Temporary portable transverse rumble strips may be used on two-way, two-lane roadways in conditions requiring traffic to stop.

Do not place temporary portable transverse rumble strips on sharp horizontal or vertical curves, through pedestrian crossings or on bicycle routes. When placed on roadways used by bicyclists a minimum clear path of 4 feet shall be provided at each edge of the roadway or on each paved shoulder if feasible.

The Contractor shall remove the temporary portable transverse rumble strips in their entirety when they are no longer needed.

All damage caused by removing temporary portable transverse rumble strips shall be repaired by the Contractor at no additional cost to the Contracting Agency.

1-10.3(3)(9-35.8).GR1

***Vacant***

Section 9-35.8 is revised to read:

1-10.3(3)(9-35.8).OPT1.GR1

**(April 1, 2019)**

**Radar Speed Display Sign**

Radar Speed Display Signs (RSDS) shall consist of a fully self-contained see-through trailer with power supply and an LED speed indicator display with a one-direction radar. Above or below the display shall be the message “YOUR SPEED” or “YOUR SPEED IS” in letters of 5 to 8 inches in height. The lowest portion of the display shall be high enough to be visible over concrete barriers or safety drums and a 36”x48” speed limit sign as shown on the approved traffic control plan shall be mounted above the speed display.

The radar speed measurement shall provide a minimum detection distance of 1000 ft. and have an accuracy of +/ - 1 mile per hour. The radar shall be mounted so detection will function when located behind concrete barrier or drums.

The numeric speed display range shall be 0 to 99 MPH with numerals of 18 inches in height minimum, amber in color with a black background with automatic dimming for nighttime operations.

The speed indicator display shall be equipped with a violation alert that flashes the displayed detected speed when the work zone posted speed limit is exceeded. The speed indicator shall have a maximum speed cutoff. Detected speeds more than 25 MPH over the posted speed shall not be displayed and speeds under 25 MPH shall not be displayed.

The unit shall have traffic data collection capabilities. Traffic data shall be collected and transmitted to the Engineer upon request.

1-10.3(3)B(9-35.4).GR1

**Sequential Arrow Signs**

Section 9-35.4 is supplemented with the following:

1-10.3(3)B(9-35.4).OPT1.2024.GR1

**(October 3, 2022)**

**GPS and Remote Communications Requirements**

Sequential Arrow Signs (Arrow Boards) on this project shall also have the following communication abilities:

1. Provide electronic Work Zone Data Exchange (WZDx) Specification compliant data feeds to Contracting Agency from the arrow board or the Arrow Boards central server.

2. Arrow Boards used on this project shall have the ability to transmit its GPS coordinates (latitude and longitude) with an accuracy of 30-foot diameter of its actual location.

3. Arrow Boards shall transmit its GPS coordinates and mode of operation data to a compatible publicly accessible mapping app service.

4. Arrow Boards shall transmit status and location as follows:

   a. Mode change within 2 minutes.

   b. Location (if moved more than 500 feet) within 2 minutes.

   c. Health checks every 30 minutes.

   d. Current “indication” posted on Board (e.g., left or right chevron, arrow direction, four corner flash, etc.).

If Arrow Board repairs are required, the Contractor shall control traffic with Arrow Board without GPS and remote communication abilities, and the Arrow Board needing repairs shall be repaired or replaced within 48 hours.

Arrow Boards shall be deactivated immediately when the unit is not in use in accordance with the accepted traffic control plan.

Any data service costs for communications will be included in the unit cost per hour for Sequential Arrow Sign.

~~1-10.3(3)C.INST1.GR1~~

~~Section 1-10.3(3)C is revised to read:~~

~~1-10.3(3)C.OPT1.2023.GR1~~

~~(January 10, 2022)~~

~~Where shown on a traffic control plan or where ordered by the Engineer, the Contractor shall provide, operate, and maintain a portable changeable message sign (PCMS), mini portable changeable message sign (mPCMS), or truck-mounted PCMS. mPCMSs are compact version of full-size PCMSs. Truck-mounted PCMSs are permanently affixed to a traffic control vehicle and meant to be mobile.~~

~~When feasible, position PCMS or mPCMSs to provide at least 2 feet of lateral clearance from the nearest open lane and transversely delineate with at least 3 channelization devices. For truck-mounted PCMSs, provide 2 feet of lateral clearance when feasible but transverse delineation is not required.~~

~~The Contractor shall remove these devices from the work zone clear zone when not in use unless protected by barrier or guardrail.~~

~~1-10.3(3)C(9-35.5).GR1~~

~~**Portable Changeable Message Signs**~~

~~Section 9-35.5 is revised to read:~~

~~1-10.3(3)C(9-35.5).OPT1.2023.GR1~~

~~(January 10, 2022)~~

~~PCMS, mPCMS, and truck mounted PCMS shall meet the requirements of the MUTCD and the following general requirements:~~

1. ~~Use light emitting diode (LED) technology capable of emitting a yellow or amber image when displayed with a flat black image matching the background when not activated.~~

2. ~~Be capable of displaying 3 lines of at least 8 alphanumeric characters with a minimum of one pixel separation between each line.~~

3. ~~Be capable of displaying 2 phases of messages at 2.0 second display each in addition to 3 phases of messages at 1.5 second display each.~~

4. ~~PCMS characters shall be at least 18 inches in height.~~

5. ~~mPCMS characters shall be at least 12 inches in height.~~

6. ~~Truck-mounted PCMS characters shall be at least 10 inches in height.~~

7. ~~The sign display shall be covered by a stable, impact resistant polycarbonate face. The sign face shall be non-glare from all angles and shall not degrade due to exposure to ultraviolet light.~~

8. ~~Be capable of simultaneously activating all pixels for the purpose of pixel diagnostics. This feature shall not occur when the sign is displaying an active message.~~

9. ~~The light source shall be energized only when the sign is displaying an active message.~~

10. ~~Primary source of power shall be solar power with a battery backup to provide continuous operation when failure of the primary power source occurs.~~

11. ~~The sign controller software shall be NTCIP compliant.~~

~~The PCMS panels and related equipment shall be permanently mounted on a trailer or truck with all needed controls and power generating equipment.~~

1-10.4.GR1

## Measurement

1-10.4(1).GR1

### *Lump Sum Bid for Project (No Unit Items)*

1-10.4(1).INST1.GR1

Section 1-10.4(1) is supplemented with the following:

1-10.4(1).OPT1.GR1

(August 2, 2004)

The proposal contains the item “Project Temporary Traffic Control”, lump sum. The provisions of Section 1-10.4(1) shall apply.

1-10.4(2).GR1

***Item Bids With Lump Sum for Incidentals***

1-10.4(2).INST1.GR1

Section 1-10.4(2) is supplemented with the following:

1-10.4(2).OPT1.GR1

(August 2, 2004)

The bid proposal does not contain the item “Project Temporary Traffic Control,” lump sum. The provisions of Section 1-10.4(2) shall apply.

1-10.4(2).OPT2.GR1

(January 10, 2022)

“Automated Flagger Assistance Device” will be measured by the hour for the time that each AFAD is operating as shown on the accepted traffic control plan.

1-10.4(2).OPT3.GR1

(January 2, 2018)

“Radar Speed Display Sign” will be measured by the hour for the time that each sign is operating as shown on an approved Traffic Control Plan.

1-10.4(2).OPT5.GR1

(September 7, 2021)

“Operation of Smart Work Zone System” will be measured by the hour the system is actively operating as defined in Section 1-10.3(3) as supplemented in these special provisions. When the smart work zone system malfunctions for longer than 15-minutes or if the smart work zone system is not used in accordance with the applicable approved Smart Work Zone System traffic control plan, no measurement will be made for the smart work zone system for that hour. Payment for all other Work to implement and decommission the SWZS will be made under the applicable items shown in the Proposal.

1-10.4(2).OPT6.GR1

(May 20, 2020)

"Contractor Provided Uniformed Police Officer" will be measured by the hour.

1-10.4(2).OPT7.GR1

(September 7, 2021)

“Operation of Queue Warning System” will be measured by the hour each system is actively operating as defined in Section 1-10.3(3) as supplemented in these special provisions. When the Queue Warning System malfunctions for longer than 15 minutes or is not used in accordance with the applicable accepted traffic control plan, no measurement will be made for the queue warning system for that hour. Payment for all other Work to implement and decommission the Queue Warning System will be made under the applicable items shown in the Proposal.

1-10.4(2).OPT8.GR1

(October 3, 2022)

"Temporary Portable Transverse Rumble Strips" will be measured per each one time for each array consisting of three rumble strips in operation at any one time. This price shall include installation, maintaining, and relocating throughout the life of the project and final removal from the project site.

1-10.4(3).GR1

***Reinstating Unit Items With Lump Sum Traffic Control***

1-10.4(3).INST1.GR1

Section 1-10.4(3) is supplemented with the following:

1-10.4(3).OPT1.FR1

(August 2, 2004)

The bid proposal contains the item "Project Temporary Traffic Control," lump sum and the additional temporary traffic control items listed below. The provisions of Section 1-10.4(1), Section 1-10.4(3), and Section 1-10.5(3) shall apply.

*** $$1$$ ***

1-10.4(3).OPT2.GR1

(September 7, 2021)

The bid proposal contains the item "Project Temporary Traffic Control," lump sum and the additional temporary traffic control items listed below. The provisions of Section 1-10.4(1), Section 1-10.4(3), and Section 1-10.5(3) shall apply.

"Operation of Smart Work Zone System" will be measured by the hour the system is actively operating as defined in the "Smart Work Zone System – Scheduled Use" specification. When the smart work zone system malfunctions for longer than 15-minutes or if the smart work zone system is not used in accordance with the applicable approved Smart Work Zone System traffic control plan, no measurement will be made for the smart work zone system for that hour. Payment for all other Work to implement and decommission the Smart Work Zone System will be made under applicable bid items shown in the Proposal.

1-10.4(3).OPT3.GR1

(September 7, 2021)

The bid proposal contains the item "Project Temporary Traffic Control," lump sum and the additional temporary traffic control items listed below. The provisions of Section 1-10.4(1), Section 1-10.4(3), and Section 1-10.5(3) shall apply.

"Operation of Queue Warning System" will be measured by the hour each system is actively operating as defined in Section 1-10.3(3) as supplemented in these special provisions. When the Queue Warning System malfunctions for longer than 15 minutes or is not used in accordance with the applicable accepted traffic control plan, no measurement will be made for the queue warning system for that hour. Payment for all other Work to implement and decommission the Queue Warning System will be made under the applicable items shown in the Proposal.

1-10.5.GR1

## Payment

1-10.5(2).GR1

### *Item Bids with Lump Sum for Incidentals*

1-10.5(2).INST1.GR1

Section 1-10.5(2) is supplemented with the following:

1-10.5(2).OPT1.GR1

(January 10, 2022)

"Automated Flagger Assistance Device", per hour.

The unit Contract price, when applied to the number of hours measured for this item in accordance with Section 1-10.4(2), shall be full pay to provide, operate, maintain and remove the AFAD as described including transporting, installing and resetting the devices.

All costs for controlling AFADs shall be included in the unit Contract price per hour for "Flaggers".

1-10.5(2).OPT2.GR1

(January 2, 2018)

"Radar Speed Display Sign", per hour.

The unit Contract price, when applied to the number of units measured for this item in accordance with Section 1-10.4(2), shall be full compensation for all costs incurred by the Contractor in performing the Work for procuring all radar speed display signs required for the project and for transporting these signs to and from the project.

1-10.5(2).OPT3.GR1

(September 7, 2021)

"Operation of Smart Work Zone System", per hour.

The unit Contract price, when applied to the number of units measured for this item in accordance with Section 1-10.4(2) shall be full compensation for all costs incurred by the Contractor, SWZS Vendor, and SWZS Technician for mobilizing and demobilizing the smart work zone system components; the hardware, software, traffic sensors, and other required equipment; maintenance data logs; traffic data logs; Contracting Agency access to Smart Work Zone System data; and wireless system operations including Contracting Agency access. Payment for all other Work to implement and decommission the SWZS will be made under the applicable items shown in the Proposal.

1-10.5(2).OPT4.GR1

(September 7, 2021)

"Operation of Queue Warning System", per hour.

The unit Contract price, when applied to the number of units measured for this item in accordance with Section 1-10.4(2) shall be full compensation for all costs incurred by the Contractor, Vendor, and/or Queue Warning System Technician for mobilizing and demobilizing the queue warning system components; the hardware, software, traffic sensors, and other required Queue Warning System equipment; maintenance data logs; traffic data logs; and wireless system operations including Contracting Agency access. Payment for all other Work to implement and decommission the

Queue Warning System will be made under the applicable items shown in the Proposal.

1-10.5(2).OPT5.GR1

(May 20, 2020)

"Contractor Provided Uniformed Police Officer", per hour.

The unit Contract price per hour for "Contractor Provided Uniformed Police Officer" shall be full pay for performing the Work as specified and as shown in the Plans, including all costs for arrangement for and supervision of a uniformed law enforcement personnel and vehicles to participate in the Contractor's traffic control activities.

1-10.5(2).OPT6.GR1

(October 3, 2022)

“Temporary Portable Transverse Rumble Strips”, per each.

The unit Contract price, when applied to the number of units measured for this item in accordance with Section 1-10.4(2), shall be full compensation for all costs incurred by the Contractor in performing the Work as described.

**DIVISION5.GR5 Surface Treatments and Pavements**

**5-01.GR5 Cement Concrete Pavement Rehabilitation**

**5-01.1.GR5 Description**

5-01.1.INST1.GR5 (Section 5-01.1 is supplemented with the following)
Must use once preceding any of the following:

5-01.1.OPT1.GR5 (Partial Depth Spall Repair)
(September 7, 2021)
Use in projects that have the Bid item "Partial Depth Spall Repair", by force account.
Must also use **5-01.2.OPT1.GR5 & 5-01.3(5).OPT1.GR5**.

**5-01.2.GR5 Materials**

5-01.2.INST1.GR5 (Section 5-01.2 is supplemented with the following)
Must use once preceding any of the following:

5-01.2.OPT1.GR5 (Partial Depth Spall Repair)
(September 7, 2021)
Use in projects that have the Bid item "Partial Depth Spall Repair", by force account.
Must also use **5-01.1.OPT1.GR5 & 5-01.3(5).OPT1.GR5**.

**5-01.3.GR5 Construction Requirements**

**5-01.3(5).GR5 Partial Depth Spall Repair**

5-01.3(5).INST1.GR5 (Section 5-01.3(5) is revised to read)
Must use once preceding any of the following:

5-01.3(5).OPT1.GR5 (Partial Depth Spall Repair)
(September 7, 2021)
Use in projects that have the Bid item "Partial Depth Spall Repair", by force account.
Must also use **5-01.1.OPT1.GR5 & 5-01.2.OPT1.GR5**.

**5-01.3(9).GR5 Portland Cement Concrete Pavement Grinding**

5-01.3(9).INST1.GR5 (Section 5-01.3(9) is supplemented with the following)
Must use once preceding any of the following:

5-01.3(9).OPT1.GR5 (April 1, 2013)
Use in projects that require 10,000 or more square yards of cement concrete pavement grinding.

**5-02.GR5 Bituminous Surface Treatment**

**5-02.3.GR5 Construction Requirements**

**5-02.3(3).GR5 Application Of Asphalt Emulsion and Aggregate**

5-02.3(3).INST1.GR5 (Section 5-02.3(3) is supplemented with the following)
Must use once preceding any of the following:

5-02.3(3).OPT1.FR5 (BST New Construction)
(August 5, 2013)
May use with 5**-02.3(3).OPT2.FR5.**
Use in projects requiring a Bituminous Surface Treatment on a newly constructed roadway.)
(2 fill-ins)

5-02.3(3).OPT2.FR5 (BST Seal Coat)
(August 5, 2013)
May use with **5-02.3(3).OPT1.FR5**.
Use in projects requiring a Bituminous Surface Treatment seal coat on an existing roadway.
(1 fill-in)

**5-02.4.GR5 Measurement**

5-02.4.INST1.GR5 (Section 5-02.4 is supplemented with the following)
Must use once preceding any of the following:

5-02.4.OPT2.GR5 (BST existing road approaches)
(March 13, 1995)
Must also use **5-02.5.OPT2.GR5**.
Use in BST projects when there are a substantial number of existing road approaches to be paved and the extra cost of labor for paving approaches becomes a factor in determining the bid price for BST.

**5-02.5.GR5 Payment**

5-02.5.INST1.GR5 (Section 5-02.5 is supplemented with the following)
Must use once preceding any of the following:

5-02.5.OPT2.GR5 (Bituminous Surface Treatment For Road Approach)
(February 5, 2001)
Must include with **5-02.4.OPT2.GR5**.
Use in BST projects when there are a substantial number of existing road approaches to be paved and the extra cost of labor for paving approaches becomes a factor in determining the bid price for BST.

5-02.5.OPT3.GR5 (CRS-2P Cost Price Adjustment Payment)
(August 5, 2013)
Include in all BST projects.
Must include **standard item #5294**.
To determine the Engineers Estimate for this bid item, refer to the guidance at: https://wsdot.wa.gov/engineering-standards/project-management-training/project-management/cost-risk-assessment

5-02.5.OPT4.GR5 (AC-15P Cost Price Adjustment Payment)
(January 3, 2017)
Include in all BST projects.
Must include **standard item #5280**.

**5-04.GR5 Hot Mix Asphalt**

**5-04.2.GR5 Materials**

**5-04.2(1).GR5 How to Get an HMA Mix Design on the QPL**

**5-04.2(1)A.GR5 Mix Designs Containing Rap and/or RAS**

**5-04.2(1)A2.GR5 High Rap/Any RAS - Mix Design Submittals for Placement on QPL**

5-04.2(1)A2.INST1.GR5 (Section 5-04.2(1)A2 is revised to read)
Must use once preceding any of the following:

5-04.2(1)A2.OPT1.2024.GR5 (April 27, 2022)
Include in all projects using HMA.

**5-04.2(2).GR5 Mix Design – Obtaining Project Approval**

5-04.2(2).INST1.GR5 (Section 5-04.2(2) is supplemented with the following)
Must use once preceding any of the following:

5-04.2(2).OPT1.FR5 (HMA Test Requirements)
(January 3, 2011)
Include in all projects using HMA.
Fill-in (number of ESAL's) is included in the pavement design report.
(1 fill-in)

5-04.2(9-03.8(7)).GR5 (HMA Tolerances, Specification Limits and Adjustments)
(The second paragraph of item number 1 of Section 9-03.8(7) is revised to read:)
Must use once preceding any of the following:

5-04.2(9-03.8(7)).OPT1.GR5 (September 8, 2020)
Include in all projects using HMA.

5-04.2(9-03.21(1)A).GR5 (Reclaimed Asphalt Shingles)
(Section 9-03.21(1)A, including title, is revised to read:)
Must use once preceding any of the following:

5-04.2(9-03.21(1)A).OPT1.2024.GR5 (April 27, 2022)
Include in all projects using HMA.

**5-04.3.GR5 Construction Requirements**

5-04.3.INST1.GR5 (Section 5-04.3 is supplemented with the following)

Must use once preceding any of the following:

5-04.3.OPT4.FR5 (Asphalt Binder Revision)
(January 3, 2017)
Use in projects when the Contracting Agency provides a source of aggregate for HMA.
Must use with **5-04.5.OPT3.GR5.**

**5-04.3(1).GR5 Weather Limitations**

5-04.3(1).INST1.GR5 (The first sentence of Section 5-04.3(1) is revised to read)
Must use once preceding any of the following:

5-04.3(1).OPT1.FR5 (August 3, 2009)
Use in projects when it is anticipated that paving will be conducted in the Fall.
(1 fill-in) (Fill-in to be provided by Region Materials Engineer)

**5-04.3(3).GR5 Equipment**

**5-04.3(3)C.GR5 Pavers**

5-04.3(3)C.INST1.GR5 (Section 5-04.3(3)C is supplemented with the following)
Must use once preceding any of the following:

5-04.3(3)C.OPT1.GR5 (Reference line required for paver)
(March 13, 1995)
Use in projects with a 70 MPH or higher design speed, except when the paving will be done under traffic.

**5-04.3(3)D.GR5 (Material Transfer Device/Vehicle)**

5-04.3(3)D.OPT1.GR5 (August 3, 2009)
(Section 5-04.3(3)D is deleted in its entirety)
Use in projects containing Hot Mix Asphalt when the Region Materials Lab recommends that a MTD/V not be used. Use requires approval of the Region Construction Office. MTD/V's are not recommended for projects with small quantities of HMA or when the paving is limited to areas where there is insufficient room for the MTD/V in the paving train.

5-04.3(3)D.INST1.GR5 (Section 5-04.3(3)A including title is revised to read)
Must use once preceding any of the following:

5-04.3(3)D.OPT2.GR5 (Material Transfer Vehicle)
(August 1, 2011)

Use in projects containing Hot Mix Asphalt when only an MTV is to be used (no MTD). Use requires approval of the Region Construction Office.

**5-04.3(9).GR5 HMA Mixture Acceptance**

5-04.3(9).INST1.GR5 (Section 5-04.3(9) is supplemented with the following)
Must use once preceding any of the following:

5-04.3(9).OPT1.FR5 Visual Evaluation
(August 1, 2016)
Use in projects where the area that visual evaluation of hot mix asphalt is to be used is not identified in the Standard Specifications
(1 fill-in)

**5-04.3(10).GR5 HMA Compaction Acceptance**

5-04.3(10).INST1.GR5 (The column in Table 14 of Section 5-04.3(10), titled "Statistical Evaluation of HMA Compaction is Required for:", is supplemented with the following)
Must use once preceding any of the following:

5-04.3(10).OPT1.GR5 HMA Shoulder Compaction
(April 3, 2017)
Use in projects to add compaction control on the shoulders.

~~**5-04.3(10)C.GR5 HMA Compaction Acceptance – Statistical Evaluation**~~

~~**5-04.3(10)C1.GR5 HMA Compaction Statistical Evaluation – Lots and Sublots**~~

~~5-04.3(10)C1.INST1.GR5 (The fourth paragraph of Section 5-04.3(10)C1 is revised to read)~~
~~Must use once preceding any of the following:~~

~~5-04.3(10)C1.OPT1.2023.GR5 (September 27, 2021)~~
~~Include in all projects using HMA.~~

**5-04.3(10)D.GR5 HMA Compaction – Visual Evaluation**

5-04.3(10)D.INST2.GR5 (The last sentence of Section 5-04.3(10)D is revised to read)
Must use once preceding any of the following:

5-04.3(10)D.OPT1.GR5 (HMA Prelevel Compaction)
(August 3, 2009)
Use in projects to require a pneumatic tire roller for the compaction of all prelevel.

**5-04.3(12).GR5 Joints**

5-04.3(12).INST1.GR5 (Section 5-04.3(12) is supplemented with the following)
Must use once preceding any of the following:

5-04.3(12).OPT1.GR5 (Feathering Hot Mix Asphalt)
(January 5, 2004)
Use in projects requiring the feathering of hot mix asphalt. May be used with the recommendation of the Region Construction Engineer.

**5-04.3(13).GR5 Surface Smoothness**

5-04.3(13).INST1.GR5 (The first four paragraphs of Section 5-04.3(13) are revised to read)
Must use once preceding any of the following:

5-04.3(13).OPT1.FR5 (Surface Smoothness)
(January 5, 2015)
Use in all projects that contain HMA paving at the discretion of the Region Construction Manager. Paving must be a minimum of one mile in length. For accurate measurements, the HQ Materials Lab profiler must be able to move through the sections to be measured unimpeded at a minimum speed of 35 MPH. Notification must be made to HQ Materials Lab Pavements section in order to schedule the post paving IRI determination. Fill-ins #1-6 are to be provided by the HQ Materials Lab Pavements section. Use with **5-04.5.OPT1.FR5**. Do not use with **5-04.3(13).OPT2.FR5** or **5-04.3(13).OPT3.GR5**.

(6 fill-ins) Contact MLPavementProfileTest@wsdot.wa.gov to schedule the IRI determination and to complete the fill-ins.

5-04.3(13).INST2.GR5 (The second sentence of Section 5-04.3(13) is deleted and replaced with the following)
Must use once preceding any of the following:

5-04.3(13).OPT2.FR5 (Smoothness requirements)
(March 13, 1995)
Use at the discretion of the Region Construction Manager in projects with roadways to be paved that have a combination of posted speeds both greater than and less than 45 MPH. Do not use with **5-04.3(13).OPT1.FR5**.
(1 fill-in is for sections of roadway with a posted speed limit less than 45 mph)

5-04.3(13).INST3.GR5 (The second sentence of Section 5-04.3(13) is revised to read)
Must use once preceding any of the following:

5-04.3(13).OPT3.GR5 (Smoothness requirements)

(January 5, 2004)
Use at the discretion of the Region Construction Manager in projects where all roadways to be paved are posted less than 45 MPH. Do not use with **5-04.3(13).OPT1.FR5.**

**5-04.3(14).GR5 Planing Bituminous Pavement**

5-04.3(14).INST1.GR5 (Section 5-04.3(14) is supplemented with the following)
Must use once preceding any of the following:

5-04.3(14).OPT1.FR5 (January 5, 2004)
Use in projects when it is necessary to control the time the planed area will be open and exposed to traffic prior to paving.
(1 fill-in)

5-04.3(14).OPT2.GR5 (Requires test section and smoothness requirements)
(January 5, 2004)
Use in projects with large quantities of planing. When using this GSP consider the need to control the amount of time the planed area is open to traffic by adding **5-04.3(14).OPT1.FR5** where appropriate.

5-04.3(14).OPT3.GR5 (Vertical Edge Planing)
(March 13, 1995)
Use in projects when planed lanes shall be paved prior to being open to traffic.

5-04.3(14).OPT4.GR5 (Beveled Edge Planing)
(August 3, 2009)
Use in projects when a beveled edge is required on a planed lane that will be opened to traffic prior to paving. The GSP is required for depths greater than 0.20 feet and may be used with the recommendation of the Region Construction Engineer for depths up to 0.20 feet. When using this GSP consider the need to control the amount of time the planed area is open to traffic by adding **5-04.3(14).OPT1.FR5** where appropriate.

**5-04.5.GR5 Payment**

5-04.5.INST2.GR5 (Section 5-04.5 is supplemented with the following)
Must use once preceding any of the following:

5-04.5.OPT1.FR5 (Surface Smoothness)
(January 5, 2015)
Must include with **5-04.3(13).OPT1.FR5**.

Fill-in is the appropriate Pay Adjustment Schedule as determined using the criteria below.

**Pay Adjustment Schedule 1** = Interstate highways, new pavement construction or multiple lift pavement overlays (at least one (1) leveling course + wearing course).

Note: Pre-leveling allowances are not to be counted as a leveling course paving lift with respect to this definition.

**Pay Adjustment Schedule 2** = Single lift pavement overlays with allowance for surface variance corrections with smoothness averaging devices (paving skis) or full width pavement milling (including shoulder) with single lift replacement overlay.

Note: Sufficient preleveling and/or pavement thickness variance allowances should be included to repair obvious existing deficiencies (humps, valleys, ruts etc.).

**Pay Adjustment Schedule 3** = Smoothness will be difficult to attain or when risk associated with meeting a smoothness criteria is unknown. Examples include matching to existing concrete gutter lines; sections with multiple surface utility structures; intersections; multiple skip sections resulting in short paving lengths; and milling/replacement paving where both the shoulder and adjacent lane is not also milled. Bonus incentives are applied to encourage maximum effort to obtain smooth pavements in difficult applications.
(1 fill-in)

5-04.5.OPT2.GR5 (Asphalt Cost Price Adjustment)
(January 13, 2021)
Include in all projects **containing Hot Mix Asphalt.**
**Must include standard item 5837.**
To determine the Engineer's Estimate for this bid item, refer to the guidance at:
https://wsdot.wa.gov/engineering-standards/project-management-training/project-management/cost-risk-assessment

5-04.5.OPT3.GR5 (Asphalt Binder Revision)
(August 3, 2009)
Must include with **5-04.3.OPT4.FR5.**

## 5-05.GR5 Cement Concrete Pavement

### 5-05.1.GR5 Description

5-05.1.INST1.GR5 (Section 5-05.1 is supplemented with the following)
Must use once preceding any of the following:

5-05.1.OPT1.GR5 (Use when cement concrete pavement has pigmented or textured cement concrete in roundabout locations)
(August 6, 2012)

Use in projects requiring color treatment, textured treatment or both for roundabout truck aprons, splitter islands, and mainline crossings.
Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development Manager for regions without a landscape architect.
**Use with 5-05.2.OPT1.FR5, 5-05.3.OPT1.GR5 or 5-05.3.OPT2.FR5 or both.**

**5-05.2.GR5 Materials**

5-05.2.INST1.GR5 (Section 5-05.2 is supplemented with the following)
Must use once preceding the following:

5-05.2.OPT1.FR5 (Pigmented cement concrete pavement in roundabouts locations)
(August 6, 2012)
Use in projects requiring color treatment in roundabout truck aprons, splitter islands, and mainline crossings. Concrete color must contrast with pavement color.

Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development Manager for regions without a landscape architect.
(1 fill-ins)

Get Primary Pigment from Region Landscape Architect or the HQ Roadside and Site Development Manager and then list all the Manufactures and Pigment Color for that Primary Pigment as fill-in information from list shown below:

**Primary Pigment - Brick:**

| Manufacturer | Pigment Color |
|---|---|
| BASF | “Red River Clay”, RC5006 |
| Bomanite | “Brick Red” |
| Davis Colors | “Brick Red”, 160 |
| Increte Systems | “Brick Red” |
| Solomon Colors | Brick”, 417 |

**Primary Pigment - Brown:**

| Manufacturer | Pigment Color |
|---|---|
| Davis Colors | “River Bank” |
| Scofield | “Sand Buff” |
| Solomon Colors | “306 Canvas” |

**Primary Pigment - Dark Gray:**

| Manufacturer | Pigment Color |
|---|---|

| | |
|---|---|
| Davis Colors | “Dark Gray (iron oxide) 860” |
| Increte Systems | “Dark Gray” |
| Solomon Colors | “Onyx”, 920 |

Use with **5-05.1.OPT1.GR5, 5-05.3.OPT1.GR5, 5-05.3.OPT2.FR5** (if textured pattern also needed) and **5-05.4.OPT1.GR5.**

**5-05.3.GR5 Construction Requirements**

5-05.3.INST1.GR5 (Section 5-05.3 is supplemented with the following)
Must use once preceding any of the following:

5-05.3.OPT1.GR5 (Use when cement concrete pavement has pigmented color in roundabout locations)
(August 6, 2012)
Use in projects requiring pigmented colored cement concrete pavement in roundabout truck aprons, splitter islands and mainline crossings.
Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development Manager for regions without a landscape architect.

Use with **5-05.1.OPT1.GR5, 5-05.2.OPT1.FR5, 5-05.3.OPT2.FR5** (if textured pattern also needed) and **5-05.4.OPT1.GR5**.

5-05.3.OPT2.FR5 (Use when cement concrete pavement has textured pattern in roundabout locations)
(August 6, 2012)
Use in projects requiring textured cement concrete pavement patterns on roundabouts, truck aprons, splitter islands and mainline crossings.

Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development Manager for regions without a landscape architect.
(1 fill-in)

Get the Primary Pattern from Region Landscape Architect or the HQ Roadside and Site Development Manager and then list all the Manufactures and Patterns for that Primary Pattern as fill-in information from list below:

**Primary Pattern - Ashlar Stone :**

| **Manufacturer** | **Pattern** |
|---|---|
| Increte Systems, Inc. | “Ashlar Slate” |

| | |
|---|---|
| Renew Crete Systems | “Royal Ashlar” |
| Bomanite | “Flagstone” |

**Primary Pattern - Brick**

| Manufacturer | Pattern |
|---|---|
| Bomanite | “Running Bond Cobblestone” |
| Brickform | “Pennsylvania Cobble-Sanded Joint”, TM820 |
| Increte Systems, Inc | “Euro Cobble Running Bond”, SECR S001 |
| Matcrete | “Large Cobblestone”, P-16 |
| Renew-Crete Systems | “London Cobblestone” |
| Scofield | “Old Belgium Stone: Running Bond” (4530) |

**Primary Pattern - River Rock**

| Manufacturer | Pattern |
|---|---|
| Bomanite. | River Rock |
| Increte Systems | Savanah Stone |
| Matcrete | Large River Rock |

Use with **5-05.1.OPT1.GR5, 5-05.2.OPT1.FR5** (if pigmented color also needed), **5-05.3(1).OPT8.GR5** and **5-05.4.OPT1.GR5**.

**5-05.3(1).GR5 Concrete Mix Design for Paving**

5-05.3(1).INST1.GR5 (Item number 1 of Section 5-05.3(1) is supplemented with the following:)
Must use once preceding any of the following:

5-05.3(1).OPT1.GR5 (Cement Concrete Pavement)
(January 2, 2018)
Use in projects that include reconstruction of the concrete pavement with a recommendation from the State Pavements Engineer.

5-05.3(1).INST2.GR5 (Section 5-05.3(1) is supplemented with the following)
Must use once preceding any of the following:

5-05.3(1).OPT8.GR5 (Aggregate size for textured cement concrete pavement)
(August 6, 2012)

Use when textured cement concrete pavement patterns are needed in roundabouts, truck aprons, splitter islands and mainlinecrossings. Provides aggregate requirements for textured cement concrete pavement patterns.

Requires approval by the Region Landscape Architect or the HQ Roadside and Site Development Manager for regions without a landscape architect
Use with **5-05.1.OPT1.GR5, GSP 5-05.3.OPT2.FR5,** and **GSP 5-05.4.OPT1.GR5.**.

**5-05.3(12).GR5 Surface Smoothness**

5-05.3(12).INST1.GR5 (The third paragraph of Section 5-05.3(12) is replaced with the following)
Must use once preceding any of the following:

5-05.3(12).OPT1.GR5 (Surface Smoothness)
(January 7, 2019)
Use in projects where concrete paving will occur in multiple short segments or in projects where paving will occur in multiple seasons.

**5-05.3(17).GR5 Opening to Traffic**

5-05.3(17).INST2.GR5 (Section 5-05.3(17) is revised to read)
Must use once preceding any of the following:

5-05.3(17).OPT1.GR5 (Maturity Testing for Concrete Pavement)
(August 7, 2017)
Use in all projects where the Portland Cement Concrete Pavement (PCCP) or the Replacement of Portland Cement Concrete Panels are required to be opened to traffic within 24 hours of placement. Requires the approval of State Pavement Engineer or Headquarters Construction Office.
Use with **5-05.5.OPT5.GR5.**

**5-05.4.GR5 Measurement**

5-05.4.INST1.GR5 (Section 5-05.4 is supplemented with the following)
Must use once preceding any of the following:

5-05.4.OPT1.GR5 (August 6, 2012)
(Textured and pigmented cement concrete pavement per square yard.)
Use with **5-05.5.OPT2.GR5, GSP 5-05.5.OPT3.GR5 or 5-05.5.OPT4.GR5.**

**5-05.5.GR5 Payment**

5-05.5.INST1.GR5 (Section 5-05.5 is supplemented with the following)

Must use once preceding any of the following:

5-05.5.OPT2.GR5 (August 6, 2012)
Pigmented cement concrete pavement per square yard.
Use with **5-05.1.OPT1.GR5** and **5-05.4.OPT1.GR5.**

5-05.5.OPT3.GR5 (August 6, 2012)
Textured cement concrete pavement per square yard. Use with
Use with **5-05.1.OPT1.GR5** and **5-05.4.OPT1.GR5.**

5-05.5.OPT4.GR5 (August 6, 2012)
Textured and pigmented cement concrete pavement per square yard.
Use with **5-05.1.OPT1.GR5** and **5-05.4.OPT1.GR5.**

5-05.5.OPT5.GR5 (August 5, 2013)
Maturity Testing for Concrete Pavement incidental to bid items Cement Conc. Pavement or Replacement Cement Concrete Panel.
Use with **5-05.3(17).OPT1.GR5.**

**5-SA1.FR5** **Just in Time Training**
(August 7, 2017)
Use in all projects with cement concrete pavement unless approved by the ASCE or State Pavement Engineer.

Page Intentionally Left Blank

5-04.GR5

# Hot Mix Asphalt

5-04.2.GR5

## Materials

5-04.2(1).GR5

### *How to Get an HMA Mix Design on the QPL*

5-04.2(1)A.GR5

#### Mix Designs Containing RAP and/or RAS

5-04.2(1)A2.GR5

##### High RAP/Any RAS – Mix Design Submittals for Placement on QPL

5-04.2(1)A2.INST1.GR5

Section 5-04.2(1)A2 is revised to read:

5-04.2(1)A2.OPT1.2024.GR5

(April 27, 2022)

For High RAP/Any RAS mix designs, comply with the following additional requirements:

1. All RAS will be manufactured waste RAS only.

2. For mix designs with any RAS, test the RAS stockpile (and RAP stockpile if any RAP is in the mix design) in accordance with Table 3.

3. For High RAP mix designs with no RAS, test the RAP stockpile in accordance with Table 3.

4. For mix designs with High RAP/Any RAS, construct a single stockpile for RAP and a single stockpile for RAS and isolate (sequester) these stockpiles from further stockpiling before beginning development of the mix design. Test the RAP and RAS during stockpile construction as required by item 1 and 2 above. Use the test data in developing the mix design and report the test data to the Contracting Agency on WSDOT Form 350-042 as part of the mix design submittal for approval on the QPL. Account for the reduction in asphalt binder contributed from RAS in accordance with AASHTO PP 78. Do not add RAP or RAS to the sequestered stockpiles after starting the mix design process, unless measures have been taken:

    a. Test samples of the RAP or RAS to be added to the sequestered stockpile in accordance with Table 3. A minimum of 5 tests of the RAP or RAS will be required each time additional material is added to the sequestered stockpiles.

    b. Evaluate and compare the test results from Section 4a to the results from the original sequestered stockpile properties

from the mix design. Develop a written plan defining how the RAP/RAS will be incorporated into the sequestered stockpile without materially changing the binder grade or aggregate gradation properties of the sequestered stockpile. Submit the test results and incorporation plan to the Engineer for approval.

| **Table 3** | **Test Frequency of RAP/RAS During RAP/RAS Stockpile Construction for Approving a High RAP/Any RAS Mix Design for Placement on the QPL** | |
|---|---|---|
| **Test Frequency[1]** | **Test for** | **Test Method** |
| 1/1000 tons of RAP (minimum of 10 per mix design) and 1/100 tons of RAS (minimum of 10 per mix design) | Asphalt Binder Content and Sieve Analysis of Fine and Coarse Aggregate | FOP for AASHTO T 308 and FOP for AASHTO T 30 |
| 1/400 tons of RAS (minimum of 5 per mix design) | Asbestos content <0.1% | PLM Test Method EPA/600/R-93/116 (1000 Point Count) See Section 9-03.21(1)A |
| 1/200 tons of RAS (minimum of 5 per mix design) | Asbestos Containing Material (ACM) <1.0% | PLM Test Method EPA/600/R-93/116 See Section 9-03.21(1)A |
| [1]"tons", in this table, refers to tons of the reclaimed material before being incorporated into HMA. | | |

5. Limit the amount of RAP and/or RAS used in a High RAP/Any RAS mix design by the amount of binder contributed by the RAP and/or RAS, in accordance with Table 4.

| **Table 4** | **Maximum Amount of RAP and/or RAS in HMA Mixture** |
|---|---|
| **Maximum Amount of Binder Contributed from:** | |
| **RAP** | RAS |
| 40%[1] minus contribution of binder from RAS | 20%[2] |
| [1]Calculated as the weight of asphalt binder contributed from the RAP as a percentage of the total weight of asphalt binder in the mixture.<br>[2]Calculated as the weight of asphalt binder contributed from the RAS as a percentage of the total weight of asphalt binder in the mixture. | |

6. Develop the mix design including RAP, RAS, recycling agent, and new binder.

7. Extract, recover, and test the asphalt residue from the RAP and RAS stockpiles to determine the percent of recycling agent and/or grade of new asphalt binder needed to meet but not exceed the performance grade (PG) of asphalt binder required by the Contract.

a. Perform the asphalt extraction in accordance with AASHTO T 164 or ASTM D 2172 using reagent grade solvent.

b. Perform the asphalt recovery in accordance with AASHTO R 59 or ASTM D 1856.

c. Test the recovered asphalt residue in accordance with AASHTO R 29 to determine the asphalt binder grade in accordance with Section 9-02.1(4).

d. After determining the recovered asphalt binder grade, determine the percent of recycling agent and/or grade of new asphalt binder in accordance with ASTM D 4887.

e. Test the final blend of recycling agent, binder recovered from the RAP and RAS, and new asphalt binder in accordance with AASHTO R 29. The final blended binder shall meet but not exceed the performance grade of asphalt binder required by the Contract and comply with the requirements of Section 9-02.1(4).

8. Include the following test data with the mix design submittal:

a. All test data from RAP and RAS stockpile construction.

b. A Safety Data Sheet (SDS) and documentation that no asbestos has been added during production of the manufactured waste shingles as detailed in Section 9-03.21(1).

c. All data from testing the recovered and blended asphalt binder.

9. Include representative samples of the following with the mix design submittal:

a. RAP and RAS.

b. 150 grams of recovered asphalt residue from the RAP and RAS that are to be used in the HMA production.

5-04.2(2).GR5

***Mix Design – Obtaining Project Approval***

5-04.2(2).INST1.GR5

Section 5-04.2(2) is supplemented with the following:

5-04.2(2).OPT1.FR5

**(January 3, 2011)**

**ESAL's**

The number of ESAL's for the design and acceptance of the HMA shall be *** $$1$$ *** million.

5-04.2(9-03.8(7)).GR5

***HMA Tolerances, Specification Limits and Adjustments***

The second paragraph of item number 1 of Section 9-03.8(7) is revised to read:

5-04.2(9-03.8(7)).OPT1.GR5

(September 8, 2020)

These tolerance and specification limits constitute the allowable limits as described in Section 1-06.2. The tolerance limit for aggregate shall not exceed the limits of the control points, except the No. 8 tolerance is ± 4% from the JMF, the No. 200 tolerance is ± 2.0% from the JMF with a minimum of 2% and a maximum of 8.0% passing the No. 200 sieve, other tolerance limits for sieves designated as 100 percent passing will be 99-100.

5-04.2(9-03.21(1)A).GR5

***Reclaimed Asphalt Shingles***

Section 9-03.21(1)A, including title, is revised to read:

5-04.2(9-03.21(1)A).OPT1.2024.GR5

**(April 27, 2022)**

**Recycled Asphalt Shingles**

Recycled asphalt shingles shall be manufactured waste shingles and shall be non-asbestos containing material (ACM) as defined in 40 CFR 61 Subpart M and tested in accordance with 40 CFR part 763, subpart E, appendix E, Section 1, Polarized Light Microscopy (PLM) Test Method EPA/600/R-93/116 by a certified testing laboratory. The PLM Test Method to determine ACM content will be the standard PLM Test Method to determine ACM less than 1.0%. Additionally, the PLM 1000 Point Count Test Method to determine asbestos less than 0.1% is required. At a minimum, the laboratory testing for asbestos content will be certified by one or more the following: National Voluntary Laboratory Accreditation Program (NVLAP), American Industrial Hygiene Association IH Laboratory Accreditation, or Washington State Department of Ecology for analysis of asbestos in bulk material. The Contractor shall keep all ACM and asbestos test results on file and provide copies to the Engineer when submitting a HMA mix design for approval in accordance with Section 5-04. The Contractor shall provide the testing and certification for toxicity characteristics in accordance with Section 9-03.21(1) prior to delivery and placement of the recycled asphalt shingles and use of the RAS in HMA. The Contractor shall also provide a Safety Data Sheet (SDS) of the RAS specifically detailing all ingredients of the manufactured waste shingles. The ingredients list needs to include the amount of asbestos as well as all types of fibrous materials.

5-04.3.GR5

## Construction Requirements

5-04.3.INST1.GR5

Section 5-04.3 is supplemented with the following:

5-04.3.OPT4.FR5

(January 3, 2017)

The expected percentage of new asphalt binder in the HMA is *** $$1$$ ***. Should the actual percentage of new asphalt binder required by the job mix formula for HMA produced with Agency-provided aggregate vary by more than plus or minus 0.3-percent

an adjustment in payment will be made. The adjustment in payment (plus or minus) will be based on the invoice cost to the Contractor. When RAP and/or RAS are used in the production of HMA the adjustment will be reduced by the percentage of RAP and/or RAS asphalt binder. No adjustment will be made when the Contractor elects not to use a Contracting Agency provided source.

5-04.3(1).GR5

***Weather Limitations***

5-04.3(1).INST1.GR5

The first sentence of Section 5-04.3(1) is revised to read:

5-04.3(1).OPT1.FR5

(August 3, 2009)

HMA for wearing course shall not be placed on any travelled way from *** $$1$$ *** and through March 31st of the following year without written approval from the Engineer.

5-04.3(3).GR5

***Equipment***

5-04.3(3).INST1.GR5

Section 5-04.3(3) is supplemented with the following:

5-04.3(3).OPT1.GR5

(March 13, 1995)

Reference lines will be required for both outer edges of the traveled way for each mainline roadway for vertical control in accordance with Section 5-04.3(3).

5-04.3(3)C.GR5

**Pavers**

5-04.3(3)C.INST1.GR5

Section 5-04.3(3)C is supplemented with the following:

5-04.3(3)C.OPT1.GR5

(April 4, 2016)

Reference lines will be required for both outer edges of the traveled way for each mainline roadway for vertical control in accordance with Section 5-04.3(3)C.

5-04.3(3)D.GR5

**Material Transfer Device or Material Transfer Vehicle**

5-04.3(3)D.OPT1.GR5

(April 4, 2016)

Section 5-04.3(3)D is deleted in its entirety.

5-04.3(3)D.INST1.GR5

Section 5-04.3(3)D including title is revised to read:

5-04.3(3)D.OPT2.GR5

**(August 1, 2011)**

**Material Transfer Vehicle**

Direct transfer of HMA from the hauling equipment to the paving machine will not be allowed in the top 0.30-feet of the pavement section of hot mix asphalt (HMA) used in traffic lanes with a depth of 0.08-feet or greater. A material transfer vehicle (MTV) shall be used to deliver the HMA from the hauling equipment to the paving machine. HMA placed in irregularly shaped and minor areas such as road approaches, tapers, and turn lanes are excluded from this requirement.

The MTV shall mix the HMA after delivery by the hauling equipment and prior to lay down by the paving machine. Mixing of the HMA shall be sufficient to obtain a uniform temperature throughout the mixture

5-04.3(9).GR5

***HMA Mixture Acceptance***

5-04.3(9).INST1.GR5

Section 5-04.3(9) is supplemented with the following:

5-04.3(9).OPT1.FR5

**(August 1, 2016)**

**Visual Evaluation**

The following HMA will be accepted by visual evaluation:

*** $$1$$ ***

5-04.3(10).GR5

***HMA Compaction Acceptance***

5-04.3(10).INST1.GR5

The column in Table 14 of Section 5-04.3(10), titled “Statistical Evaluation of HMA Compaction is Required for”, is supplemented with the following:

5-04.3(10).OPT1.GR5

(April 3, 2017)

- Any HMA for which the specified course thickness is greater than 0.10 feet and the HMA is placed in the shoulder.

~~5-04.3(10)C.GR5~~

~~**HMA Compaction Acceptance – Statistical Evaluation**~~

~~5-04.3(10)C1.GR5~~

~~**HMA Compaction Statistical Evaluation – Lots and Sublots**~~

~~5-04.3(10)C1.INST1.GR5~~

~~The fourth paragraph of Section 5-04.3(10)C1 is revised to read:~~

~~5-04.3(10)C1.OPT1.2023.GR5~~

~~(September 27, 2021)~~

~~The following will cause one compaction lot to end prematurely and a new compaction lot to begin:~~

- ~~For a compaction lot in progress with a compaction CPF less than 0.75 using an LSL = 92.0, a new compaction lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced. See also Section 5-04.3(11)F.~~

5-04.3(10)D.GR5

**HMA Compaction – Visual Evaluation**

5-04.3(10)D.INST2.GR5

The last sentence in Section 5-04.3(10)D is revised to read:

5-04.3(10)D.OPT1.GR5

(April 4, 2016)

HMA that is used for preleveling shall be compacted with a pneumatic tire roller unless otherwise approved by the Engineer.

5-04.3(12).GR5

***Joints***

5-04.3(12).INST1.GR5

Section 5-04.3(12) is supplemented with the following:

5-04.3(12).OPT1.GR5

(January 5, 2004)

The HMA overlay shall be feathered to produce a smooth riding connection to the existing pavement.

HMA utilized in the construction of the feathered connections shall be modified by eliminating the coarse aggregate from the mix at the Contractor's plant or the commercial source or by raking the joint on the roadway, to the satisfaction of the Engineer.

5-04.3(13).GR5

***Surface Smoothness***

5-04.3(13).INST1.GR5

The first four paragraphs of Section 5-04.3(13) are revised to read:

5-04.3(13).OPT1.FR5

(January 5, 2015)

Pavement surface smoothness for this project will include International Roughness Index (IRI) testing that will be completed by the Contracting Agency. The Contracting Agency will perform the IRI testing on each through lane, climbing lane, and passing lane, greater than one mile in length and these lanes will be subject to incentive/disincentive adjustments. IRI testing for a lane will be reported every 0.01 mile by averaging the IRI data for the left and right wheelpath within the section.

Bridge approaches and bridge decks that are located within the lanes specified to be tested and are paved with HMA will be included in the IRI testing. Bridge structures, approach slabs and 0.02 miles on either side of the bridge structures and approach slabs will be eligible for price adjustment incentives and excluded from disincentive adjustments.

Ramps, shoulders and tapers will not be included in IRI testing for pavement smoothness and will not be subject to incentive adjustments. They will be subject to parallel and transverse 10-foot surface requirements, corrective work and disincentive adjustments.

Upon completion of the paving operation the Contractor shall notify the Engineer that the roadway is ready for IRI testing. Notification shall not take place until the following conditions are met for all lanes to be tested on the project:

1. All lanes are open to traffic, unrestricted and in their final configuration.

2. All permanent pavement markings are in place or temporary pavement markings to the satisfaction of the Engineer.

If requested by the Engineer the Contractor shall sweep the roadway immediately prior to testing. If the sweeping is needed as a result of the Contractor's operation it shall be the responsibility and expense of the Contractor. Should the Contracting Agency not be able to complete the testing as a result of the Contractor's Work the testing will be rescheduled and any additional costs to the Contracting Agency will be deducted from monies due or that may become due the Contractor.

It is the intent that the testing will be completed and the results provided to the Contractor within 30 calendar days of the Contractor's notification that the roadway is ready for testing. If weather or other conditions exist which are determined by the Engineer to be unsuitable for IRI testing of the pavement then the testing will be deferred until favorable conditions are available and the 30 calendar days extended.

Provided that all other Work required for Substantial Completion has been completed; the day following the Contractor's notification that the roadway is ready for IRI testing through the day the IRI data is provided to the Contractor will be nonworking days in accordance with Section 1-08.5.

Corrective work for pavement smoothness may be taken by the Contractor prior to IRI testing. After completion of the IRI testing the Contractor shall measure the smoothness of each 0.01 mile section with an IRI greater than 125 with a 10-foot straightedge within 14 calendar days or as approved by the Engineer. The Contractor shall identify all locations that require corrective work and provide the straight edge measurements at each location that exceeds the allowable limit to the Engineer. If all measurements in a 0.01 section comply with the smoothness requirements the Contractor shall provide the maximum measurement to the Engineer and a statement that corrective work is not required. Unless approved by the Engineer, corrective work shall be taken by the Contractor for pavement identified by the Contractor or Engineer that does not meet the following requirements:

1. The completed surface of all courses shall be of uniform texture, smooth, uniform as to crown and grade, and free from defects of all kinds.

2. The completed surface of the wearing course shall not vary more than ⅛ inch from the lower edge of a 10-foot straightedge placed on the surface parallel to the centerline.

3. The completed surface of the wearing course shall vary not more than ¼ inch in 10 feet from the rate of transverse slope shown in the Plans.

All corrective work shall be completed at no additional expense, including traffic control, to the Contracting Agency. Pavement shall be repaired by one or more of the following methods:

1. Diamond grinding; repairs shall not reduce pavement thickness by more than ¼ inch.

2. Removal and replacement of the HMA wearing course.

3. By other method approved by the Engineer.

For repairs following IRI testing the repaired area shall be checked by the Contractor with a 10-foot straightedge to ensure it no longer requires corrective work. With approval of the Engineer a lightweight profiler, California profilograph or other device may be used in place of the 10-foot straight edge.

If correction of the roadway as listed above either will not or does not produce satisfactory results as to smoothness or serviceability the Engineer may accept the completed pavement and a credit will be calculated in accordance with Section 5-04.5(1). Under these circumstances the decision whether to accept the completed pavement or to require corrective work as described above shall be vested entirely in the Engineer.

During the last review of this roadway, which was conducted on *** $$1$$ ***, by the Contracting Agency the following IRI (inches/mile) values were obtained. The IRI values are informational only and are average IRI values for 0.10 mile sections. Additional information may be available for review at the Engineer's Office.

***

| SR | Begin Milepost | End Milepost | IRI Running Avg NB/EB (Inch/mile) | IRI Running Avg SB/WB (Inch/mile) |
|---|---|---|---|---|
| $$2$$ | $$3$$ | $$4$$ | $$5$$ | $$6$$ |

***

5-04.3(13).INST2.GR5

The second sentence of Section 5-04.3(13) is deleted and replaced with the following:

5-04.3(13).OPT2.FR5

(March 13, 1995)

The completed surface of the wearing course of the following sections of Roadway shall not vary more than 1/4 inch from the lower edge of a 10-foot straightedge placed on the surface parallel to centerline:

1. *** $$1$$ ***

The completed surface of the wearing course of all other sections of Roadway shall not vary more than 1/8 inch from the lower edge of a 10-foot straightedge placed on the surface parallel to centerline.

5-04.3(13).INST3.GR5

The second sentence of Section 5-04.3(13) is revised to read:

5-04.3(13).OPT3.GR5

(January 5, 2004)

The completed surface of the wearing course shall not vary more than 1/4 inch from the lower edge of a 10-foot straightedge placed on the surface parallel to centerline.

5-04.3(14).GR5

***Planing Bituminous Pavement***

5-04.3(14).INST1.GR5

Section 5-04.3(14) is supplemented with the following:

5-04.3(14).OPT1.FR5

(January 5, 2004)

The Contractor shall perform the planing operations no more than *** $$1$$ *** calendar days ahead of the time the planed area is to be paved with HMA, unless otherwise allowed by the Engineer in writing.

5-04.3(14).OPT2.GR5

(January 5, 2004)

At the start of the planing operation the Contractor shall plane a 500 foot test section to be evaluated by the Engineer for compliance with the surface tolerance requirements. The test section shall have a minimum width of 10 feet. If the planing is in accordance with the surface tolerance requirements, the Contractor may begin production planing. If the planing is not in conformance with the surface tolerance requirements, the Contractor shall make adjustments to the planing operation and then plane another test section.

If at any time during the planing operation the Engineer determines the required surface tolerance is not being achieved, the Contractor shall stop planing. Planing shall not resume until the Engineer is satisfied that specification planing can be produced or until successful completion of another test section. The forward speed during production planing shall not exceed the speed used for the test section.

The completed surface after planing and prior to paving shall not vary more than 1/4 inch from the lower edge of a 10-foot straightedge placed on the surface parallel or transverse to the centerline. The planed surface shall have a matted texture and the difference between the high and low of the matted surface shall not exceed 1/8 inch.

Pavement repair operations, when required, shall be accomplished prior to planing.

5-04.3(14).OPT3.GR5

**(March 13, 1995)**

**Vertical Edge Planing**

During planing of bituminous pavement in the travelled lanes, the Contractor shall coordinate the planing and paving operations such that the planed roadway surface shall not remain unpaved at the end of the work day. The Contractor shall have a contingency plan to ensure that no planed areas remain unpaved due to equipment breakdown or other emergency.

5-04.3(14).OPT4.GR5

**(August 3, 2009)**

**Beveled Edge Planing**

A beveled edge shall be constructed in areas that will not be paved during the same work shift.

The Contractor shall use a beveled cutter on the mandrel of the planing equipment, or other approved method(s), to eliminate the vertical edge(s). The beveled edge(s) shall be constructed at a 4:1 slope.

5-04.5.GR5

## Payment

5-04.5.INST2.GR5

Section 5-04.5 is supplemented with the following:

5-04.5.OPT1.FR5

(January 5, 2015)

"Smoothness Compliance Adjustment" by calculation.

### *Smoothness Compliance Adjustments*

Section 5-04.5(1) is supplemented with the following:

Smoothness Compliance Adjustments will be based on the requirements in Section 5-04.3(13) and the following calculations:

1. Final IRI acceptance and incentive/disincentive payments for pavement smoothness will be calculated on an IRI value per 0.10 mile in accordance with the price adjustment schedule.

    a. For sections of a lane that are a minimum of 0.01 mile and less than 0.10 mile, the price adjustment will be calculated using the average of the 0.01 mile IRI values and the price adjustment prorated for the length of the section.

b. For bridges, approach slabs and 0.02 miles on either side the price adjustment will be calculated independently from other measured lanes.

c. IRI values per 0.01 miles that were measured prior to corrective work will be included in the 0.10 mile price adjustment for sections with corrective work.

2. A smoothness compliance adjustment will be calculated in the sum of minus $250.00 for each and every section of single traffic lane 0.01 miles in length in that does not meet the 10-foot straight edge requirements in Section 5-04.3(13).

The price adjustment schedule for this contract shall be *** $$1$$ ***.

**Price Adjustment Schedule**

| IRI for each 0.10 mi. section | Pay Adjustment Schedule 1 | Pay Adjustment Schedule 2 | Pay Adjustment Schedule 3 |
|---|---|---|---|
| **in. / mi.** | **$ / 0.10 mi.** | **$ / 0.10 mi.** | **$ / 0.10 mi.** |
| < 30 | 600 | 600 | 600 |
| 30 | 600 | 600 | 600 |
| 31 | 580 | 580 | 580 |
| 32 | 560 | 560 | 560 |
| 33 | 540 | 540 | 540 |
| 34 | 520 | 520 | 520 |
| 35 | 500 | 500 | 500 |
| 36 | 480 | 480 | 480 |
| 37 | 460 | 460 | 460 |
| 38 | 440 | 440 | 440 |
| 39 | 420 | 420 | 420 |
| 40 | 400 | 400 | 400 |
| 41 | 380 | 380 | 380 |
| 42 | 360 | 360 | 360 |
| 43 | 340 | 340 | 340 |
| 44 | 320 | 320 | 320 |
| 45 | 300 | 300 | 300 |
| 46 | 280 | 280 | 280 |
| 47 | 260 | 260 | 260 |
| 48 | 240 | 240 | 240 |
| 49 | 220 | 220 | 220 |
| 50 | 200 | 200 | 200 |
| 51 | 180 | 180 | 180 |
| 52 | 160 | 160 | 160 |
| 53 | 140 | 140 | 140 |
| 54 | 120 | 120 | 120 |
| 55 | 100 | 100 | 100 |
| 56 | 80 | 80 | 80 |
| 57 | 60 | 60 | 60 |
| 58 | 40 | 40 | 40 |

| | | | |
|---|---|---|---|
| 59 | 20 | 20 | 20 |
| 60 | 0 | 0 | 0 |
| 61 | 0 | 0 | 0 |
| 62 | 0 | 0 | 0 |
| 63 | 0 | 0 | 0 |
| 64 | 0 | 0 | 0 |
| 65 | 0 | 0 | 0 |
| 66 | -20 | 0 | 0 |
| 67 | -40 | 0 | 0 |
| 68 | -60 | 0 | 0 |
| 69 | -80 | 0 | 0 |
| 70 | -100 | 0 | 0 |
| 71 | -120 | 0 | 0 |
| 72 | -140 | 0 | 0 |
| 73 | -160 | 0 | 0 |
| 74 | -180 | 0 | 0 |
| 75 | -200 | 0 | 0 |
| 76 | -220 | -20 | 0 |
| 77 | -240 | -40 | 0 |
| 78 | -260 | -60 | 0 |
| 79 | -280 | -80 | 0 |
| 80 | -300 | -100 | 0 |
| 81 | -320 | -120 | 0 |
| 82 | -340 | -140 | 0 |
| 83 | -360 | -160 | 0 |
| 84 | -380 | -180 | 0 |
| 85 | -400 | -200 | 0 |
| 86 | -420 | -220 | 0 |
| 87 | -440 | -240 | 0 |
| 88 | -460 | -260 | 0 |
| 89 | -480 | -280 | 0 |
| 90 | -500 | -300 | 0 |
| 91 | -520 | -320 | 0 |
| 92 | -540 | -340 | 0 |
| 93 | -560 | -360 | 0 |
| 94 | -580 | -380 | 0 |
| 95 | -600 | -400 | 0 |
| 96 | -620 | -420 | 0 |
| 97 | -640 | -440 | 0 |
| 98 | -660 | -460 | 0 |
| 99 | -680 | -480 | 0 |
| 100 | -700 | -500 | 0 |
| 101 | -720 | -520 | 0 |
| 102 | -740 | -540 | 0 |
| 103 | -760 | -560 | 0 |
| 104 | -780 | -580 | 0 |
| 105 | -800 | -600 | 0 |
| 106 | -820 | -620 | 0 |
| 107 | -840 | -640 | 0 |
| 108 | -860 | -660 | 0 |

| | | | |
|---|---|---|---|
| 109 | -880 | -680 | 0 |
| 110 | -900 | -700 | 0 |
| 111 | -920 | -720 | 0 |
| 112 | -940 | -740 | 0 |
| 113 | -960 | -760 | 0 |
| 114 | -980 | -780 | 0 |
| 115 | -1000 | -800 | 0 |
| 116 | -1020 | -820 | 0 |
| 117 | -1040 | -840 | 0 |
| 118 | -1060 | -860 | 0 |
| 119 | -1080 | -880 | 0 |
| 120 | -1100 | -900 | 0 |
| 121 | -1120 | -920 | 0 |
| 122 | -1140 | -940 | 0 |
| 123 | -1160 | -960 | 0 |
| 124 | -1180 | -980 | 0 |
| ≥125 | -1200 | -1000 | 0 |

5-04.5.OPT2.GR5

***(January 13, 2021)***

***Asphalt Cost Price Adjustment***

The Contracting Agency will make an Asphalt Cost Price Adjustment, either a credit or a payment, for qualifying changes in the reference cost of asphalt binder. The adjustment will be applied to partial payments made according to Section 1-09.9 for the following bid items when they are included in the proposal:

"HMA Cl. ___ PG ___"
"HMA for Approach Cl. ___ PG ___"
"HMA for Preleveling Cl. ___ PG ___"
"HMA for Pavement Repair Cl. ___ PG ___"
"Commercial HMA"

The adjustment is not a guarantee of full compensation for changes in the cost of asphalt binder. The Contracting Agency does not guarantee that asphalt binder will be available at the reference cost.

The Contracting Agency will establish asphalt binder reference costs twice each month and post the information on the Agency website at: https://wsdot.wa.gov/business-wsdot/how-do-business-us/public-works-contracts/payments-reporting/asphalt-binder-reference-cost. The reference cost will be determined using posted prices furnished by Poten & Partners, Inc. If the selected price source ceases to be available for any reason, then the Contracting Agency will select a substitute price source to establish the reference cost.

Price adjustments will be calculated one time per month. No price adjustment will be made if the Current Reference Cost is within +/-5% of the Base Cost. Reference costs for projects located in Eastern versus Western Washington shall be selected from the column in the WSDOT website table labeled "Eastern", or "Western", accordingly. The adjustment will be calculated as follows:

If the reference cost is greater than or equal to 105% of the base cost, then Asphalt Cost Price Adjustment = (Current Reference Cost – (1.05 x Base Cost)) x (Q x 0.056).

If the reference cost is less than or equal to 95% of the base cost, then Asphalt Cost Price Adjustment = (Current Reference Cost – (0.95 x Base Cost)) x (Q x 0.056).

Where: **Current Reference Cost** is selected from the website table based on the "Date Effective" that immediately precedes the current month's progress estimate end date. For work completed after all authorized working days are used, the adjustment will be based on the posted reference cost during which contract time was exhausted.

**Base Cost** is selected from the website table based on the "Date Effective" that immediately precedes the contract bid opening date, and shall be a constant for all monthly adjustments.

**Q** = total tons of all classes of HMA paid in the current month's progress payment.

"Asphalt Cost Price Adjustment", by calculation.
"Asphalt Cost Price Adjustment" will be calculated and paid for as described in this section. For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount in the proposal to become a part of the total bid by the Contractor.

5-04.5.OPT3.GR5
(April 4, 2016)
"Asphalt Binder Revision" by calculation.
"Asphalt Binder Revision" shall be calculated and paid for as described in Section 5-04.3.

Page Intentionally Left Blank

**DIVISION6.GR6 Structures**

**6-01.GR6 General Requirements For Structures**

**6-01.5.GR6 Work Access and Temporary Structures**

6-01.5.INST1.GR6 (Section 6-01.5 is re-titled and revised to read:)
Must use once preceding any of the following:

6-01.5.OPT1.FB6 (Work Access)
(April 1, 2019)
Use in projects requiring the Contractor to construct work access to perform structure removal and construction, including work trestle construction for work within or above an environmentally sensitive area as required by resource agency environmental permits and restrictions. The fill-in specifies the name of the environmentally sensitive area or waterway. Include with ***6-01.5.OPT1(B).GB6***.
Must use once preceding any of the following:
(1 fill-in)

6-01.5.OPT1(A).FB6 (Waterway Clearance Requirements)
(April 6, 2015)
Use in projects requiring the Contractor to construct the work access structure to conform to navigation clearance requirements of the USCG. The first fill-in specifies the minimum horizontal clearance required for the channel span. The second fill-in specifies the minimum elevation required for the bottom of the work access structure superstructure. Include with ***6-01.5.OPT1.FB6*** *and* ***6-01.5.OPT1(B).GB6***.
(2 fill-ins)

6-01.5.OPT1(B).GB6 (Payment)
(April 6, 2015)
Use in projects requiring the Contractor to construct work access to perform structure removal and construction, including work trestle construction for work within or above an environmentally sensitive area as required by resource agency environmental permits and restrictions. Include with ***6-01.5.OPT1.FB6***.

6-01.5.OPT2.FB6 (Temporary Bridge)
(August 6, 2018)
Use in projects requiring construction of a temporary bridge. The first fill-in specifies the minimum overall length of the temporary bridge, and can also be used to specify requirements for number of spans and lengths of specific spans, if necessary. The second fill-in specifies the minimum roadway width required between barriers or railings. The third fill-in specifies the minimum vertical clearance dimension to the roadway, body of water, or surface, specified in the fourth fill-in. If the length, width or

vertical clearance of the temporary bridge is shown in the plans, the specific geometric requirement item text in the specification can be deleted (or if all are shown in the plans, the entire geometric requirements paragraph can be deleted).
(4 fill-ins)

## 6-02.GR6 Concrete Structures

### 6-02.2.GR6 Materials

6-02.2.INST1.GR6 (Section 6-02.2 is supplemented with the following)
Must use once preceding any of the following:

6-02.2.OPT1.GR6 (Resin Bonded Anchors)
(April 1, 2013)
Include in projects requiring resin bonded anchors for attaching and anchoring items to concrete structures. *Must also include* ***6-02.3(18).OPT1.GR6****.*

6-02.2.OPT2.GB6 (Epoxy Bonding Agent For Surfaces And For Steel Reinforcing Bar Dowels)
(September 8, 2020)
Use in projects when epoxy resin is required for setting steel reinforcing bars into holes drilled into concrete. Include with ***6-02.3(24)C.OPT1.GB6***.

6-02.2.OPT4.GB6 (Epoxy Crack Sealing)
(August 3, 2015)
Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with ***6-02.3.OPT1.GB6*** and ***6-02.5.OPT49.GB6***.

6-02.2.OPT26.GB6 (Rapid Cure Silicone Sealant)
(April 6, 2015)
Use in projects where rapid cure silicone sealant is used for expansion joint modification. Include with **6-02.3(13).OPT7(C).GB6, either 6-02.3(13).OPT7(I).GB6 or 6-02.3(13).OPT7(J).GB6, 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6**, and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).

6-02.2.OPT27.GB6 (Polyester Concrete)
(April 6, 2015)
Use in projects where polyester concrete is required. Include with ***6-02.3.OPT9.GB6***.

6-02.2.OPT28.GB6 (Elastomeric Concrete)
(April 6, 2015)
Use in projects where elastomeric concrete is required. Include with ***6-02.3.OPT10.GB6***.

6-02.2.OPT46.GB6 (Bridge Supported Utilities)
Must use once preceding any of the following:

6-02.2.OPT46(A).GB6 (June 26, 2000)
Use in projects with bridge supported utilities when the supports include concrete inserts. Include with ***6-02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6,*** and ***6-02.5.OPT26.FB6***.

6-02.2.OPT46(B).GB6 (Bridge Supported Utilities)
(September 3, 2019)
Use in projects with bridge supported utilities when the supports include steel rods, bars, and plates. Include with ***6-02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6,*** and ***6-02.5.OPT92.FB6***, and either ***6-02.3.OPT2(B).GB6,*** or ***6-02.3.OPT2(C).GB6*** and ***6-02.5.OPT93.GB6***.

6-02.2.OPT46(C).GB6 (Bridge Supported Utilities)
(September 3, 2019)
Use in projects with bridge supported utilities when the supports include transverse braces. Include with ***6-02.2.OPT46(A).GB6, 6-02.2.OPT46(B).GB6, 6-02.3.OPT2(A).GB6,*** and ***6-02.5.OPT92.FB6***, and either ***6-02.3.OPT2(B).GB6,*** or ***6-02.3.OPT2(C).GB6*** and ***6-02.5.OPT93.GB6***.

6-02.2.OPT46(D).GB6 (Bridge Supported Utilities)
(June 26, 2000)
Use in projects with bridge supported utilities when the supports include pipe rolls or pipe saddles. Include with ***6-02.5.OPT92.FB6*** and other applicable bridge supported utility material and construction requirement GSP's.

6-02.2.OPT46(E).GB6 (Bridge Supported Utilities)
(September 3, 2019)
Use in projects with bridge supported utilities in concrete box girder bridges when the utilities are supported on anchor blocks on the bottom slab. Include with ***6-02.5.OPT92.FB6*** and other applicable bridge supported utility material and construction requirement GSP's.

6-02.2.OPT48.GB6 (Bridge Drain Risers)
(April 30, 2001)
Use in projects requiring the raising of bridge drains prior to asphalt or modified concrete overlay work on bridge decks. Include with ***6-02.3(10)D.OPT3.GB6***. Also include with ***6-02.3(10)D.OPT4.GB6*** if the bridge deck is overlaid with membrane waterproofing and ACP. Include with ***6-02.5.OPT53.FB6*** if the work is included in the cost of the membrane waterproofing or modified concrete overlay. Include with ***6-02.4.OPT26.GB6*** and ***6-02.5.OPT51.GB6*** if

the unit contract bid item “Modify Bridge Drain” is used to pay for the work.

6-02.2.OPT58.GB6 (Core Drilled Bridge Deck Drain)
(September 8, 2020)
Use in projects with core drilled bridge deck drains. Include with **6-02.3(10)D.OPT12.GB6, and either 6-02.4.OPT32.GB6 and 6-02.5.OPT58.GB6, or 6-02.5.OPT59.FB6.**

6-02.2.OPT60.GB6 (Seismic Retrofit Materials)
(April 6, 2015)
Use in projects with seismic retrofit construction.
Must use once preceding any of the following:

6-02.2.OPT60(B).GB6 (Steel and PVC Pipe)
(April 6, 2015)
Use in projects with seismic retrofit work when steel and/or PVC pipe are used as materials. Include with **6-02.4.OPT44.FB6** and **6-02.5.OPT72.GB6,** and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.2.OPT60(C).GB6 (Structural Steel and Steel Fastening Hardware)
(September 8, 2020)
Use in projects with seismic retrofit work when structural steel and steel fastening hardware are used as materials. Include with **6-02.4.OPT44.FB6** and **6-02.5.OPT72.GB6,** and all applicable other seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.2.OPT60(D).GB6 (High-Strength Steel Rods)
(September 8, 2020)
Use in projects with seismic retrofit work requiring the installation of longitudinal seismic restrainer assemblies. Include with **6-02.3.OPT8(L).GB6, 6-02.4.OPT44.FB6** and **6-02.5.OPT72.GB6,** and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.2.OPT60(F).GB6 (Column Jacketing Materials)
(September 8, 2020)
Use in projects with seismic retrofit work when column jacketing is required. Include with **6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

6-02.2.OPT61.GB6 (PCPS Conc. SIP Panels)
(September 8, 2020)
Use in projects with precast prestressed concrete stay-in-place panels. Include with **6-02.3(9)A.OPT6.GB6, 6-02.3(9)E.OPT6.GB6, 6-02.3(9)F.OPT1.GB6, 6-02.3(9)G.OPT6.GB6 and 6-02.3(9)I.OPT6.GB6.**

**6-02.3.GR6 Construction Requirements**

6-02.3.INST1.GR6 (Section 6-02.3 is supplemented with the following)
Must use once preceding any of the following:

6-02.3.OPT1.GB6 (Epoxy Crack Sealing)
(September 7, 2021)
Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with ***6-02.2.OPT4.GB6, 6-02.4.OPT24.GB6,*** and ***6-02.5.OPT49.GB6***.

6-02.3.OPT2.GB6 (Bridge Supported Utilities)
Must use once preceding any of the following:

6-02.3.OPT2(A).GB6 (Bridge Supported Utilities)
(August 3, 2015)
Use in projects with bridge supported utilities when the supports include concrete inserts. Include with ***6-02.2.OPT46.GB6, 6-02.4.OPT1.FB6,*** and ***6-02.5.OPT26.FB6***.

6-02.3.OPT2(B).GB6 (Bridge Supported Utilities)
(June 26, 2000)
Use in projects with bridge supported utilities when the Contractor furnishes and installs the supports and the utility pipe or conduit pipe. Include with ***6-02.5.OPT92.FB6*** and other applicable bridge supported utility material GSP's. Include with ***6-02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6,*** and ***6-02.5.OPT26.FB6*** when the supports include concrete inserts.

6-02.3.OPT2(C).FB6 (Bridge Supported Utilities)
(June 26, 2000)
Use in projects with bridge supported utilities when the Utility Company furnishes, or furnishes and installs, some of the supports and pipe for the utilities. The first fill-in specifies the items to be furnished and installed by the Utility Company. The second and third fill-ins specify the items to be installed by the Contractor which are furnished by either the Utility Company or the Contractor. Include with ***6-02.5.OPT92.FB6*** and ***6-02.5.OPT93.GB6,*** and other applicable bridge supported utility material GSP's. Include with ***6-***

***02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6,*** and ***6-02.5.OPT26.FB6*** when the supports include concrete inserts.
(3 fill-ins)

6-02.3.OPT8.GB6 (Seismic Retrofit)
Must use once preceding one of the following:

6-02.3.OPT8(B).GB6 (Seismic Retrofit Demolition Plan)
(April 6, 2015)
Use in seismic retrofit projects where removal of portions of existing concrete and steel reinforcing bars, or cleaning and preparing of existing concrete surfaces is required. Include with ***6-02.4.OPT44.FB6, 6-02.3.OPT8(H).GB6,*** *and* ***6-02.5.OPT72.GB6,*** *and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3*.

6-02.3.OPT8(C).GB6 (Column Jacket Installation Plan)
(April 6, 2015)
Use in projects with column jacketing of existing bridges. Include with **6-02.2.OPT60(F).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

6-02.3.OPT8(D).GB6 (Column Jacket Shop Drawings)
(April 6, 2015)
Use in projects with column jacketing of existing bridges. Include with ***6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6,*** *and* ***6-03.3(30).OPT1.FB6***. Include with ***6-02.3.OPT8(F).FB6*** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

6-02.3.OPT8(E).GB6 (Field Measuring Existing Bridge Columns)
(September 8, 2020)
Use in projects where field measuring of existing bridge columns is required. Include with **6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

6-02.3.OPT8(F).FB6 (Field Measuring Waiver for Specific

Existing Bridge Columns)
(April 6, 2015)
Use in projects where the requirement of pre-fabrication field measuring of specific existing bridge columns is waived. The fill-in specifies the bridge(s) and pier(s) where the column receiving the waiver is located. Include with ***6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6,*** *and* ***6-03.3(30).OPT1.FB6***.
(1 fill-in)

6-02.3.OPT8(G).FB6 (Field Measuring for Seismic Retrofit Components)
(April 6, 2015)
Use in projects where field measuring of existing bridge members is required for seismic retrofit components. The first fill-in specifies the bridge(s) where the field measuring work is required. The second fill-in specifies the members or components to be measured. Include with ***6-02.4.OPT44.FB6*** *and* ***6-02.5.OPT72.GB6,*** *and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3*.
(2-fill-ins)

6-02.3.OPT8(H).GB6 (Removing Portions of Existing Concrete)
(April 6, 2015)
Use in seismic retrofit projects where removal of portions of existing concrete and steel reinforcing bars, or cleaning and preparing of existing concrete surfaces is required. Include with ***6-02.3.OPT8(B).GB6, 6-02.4.OPT44.FB6*** *and* ***6-02.5.OPT72.GB6,*** and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.3.OPT8(J).GB6 (Drilling Holes and Setting Steel Reinf. Bars, and Placing Concrete)
(April 6, 2015)
Use in seismic retrofit projects requiring the construction of catcher blocks, girder stops, and other concrete appendages. Include with ***6-02.3.OPT8(B).GB6, 6-02.3.OPT8(H).GB6, 6-02.3(24)C.OPT1.GB6, 6-02.4.OPT44.FB6,*** *and* ***6-02.5.OPT72.GB6,*** *and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3*.

6-02.3.OPT8(K).GB6 (Installing and Tensioning High-Strength Steel Bar Reinforcement)
(April 6, 2015)
Use in seismic retrofit projects requiring the installation, stressing, and grouting of high-strength steel bar

reinforcement. Include with ***6-02.4.OPT44.FB6*** *and* ***6-02.5.OPT72.GB6,*** *and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3*.

6-02.3.OPT8(L).GB6 (Longitudinal Seismic Restrainers)
(April 6, 2015)
Use in seismic retrofit projects requiring the installation of longitudinal seismic restrainer assemblies. Include with **6-02.2.OPT60(B).GB6, 6-02.2.OPT60(C).BSP.GB6, 6-02.2.OPT60(D).GB6, 6-02.3(18).OPT1.GR6, either 6-02.4.OPT43.GB6 and 6-02.5.OPT71.GB6, or 6-02.4.OPT44.FB6 and 6-02.5.OPT72.GB6,** and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.3.OPT8(M).GB6 (Column Jacketing)
(September 8, 2020)
Use in projects with column jacketing of existing bridges. Include with **6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.4.OPT45.FB6, 6-02.5.OPT73.GB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

6-02.3.OPT9.GB6 (Polyester Concrete)
(January 7, 2019)
Use in projects where polyester concrete is required. Include with ***6-02.2.OPT27.GB6***.

6-02.3.OPT10.GB6 (Elastomeric Concrete)
(January 7, 2019)
Use in projects where elastomeric concrete is required. Include with ***6-02.2.OPT28.GB6***.

**6-02.3(2).GR6 Proportioning Materials**

6-02.3(2).INST1.GR6 (Section 6-02.3(2) is supplemented with the following)
Must use once preceding any of the following:

6-02.3(2).OPT1.GB6 (Expansion Joint Header Concrete)
(September 8, 2020)
Use in projects with expansion joint modifications where the headers for the modified joints are made of a high early strength concrete mix. Include **with 6-02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6-02.3(13).OPT7(H).GB6, , or 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6**, and all other applicable expansion

joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).

**6-02.3(6).GR6 Placing Concrete**

**6-02.3(6)B.GR6 Placing Concrete in Foundation Seals**

6-02.3(6)B.INST1.GR6 (Section 6-02.3(6)B is supplemented with the following)
Must use once preceding any of the following:

6-02.3(6)B.OPT1.GB6 (Concrete Seals)
(June 26, 2000)
Use in projects where there is the possibility of seals being omitted during construction, in which case the footing is to be lowered to bottom of seal.

6-02.3(6)B.OPT2.GB6 (Concrete Seals)
(June 26, 2000)
Use in projects where there is the possibility of seals being omitted during construction, in which case the footing is not to be lowered.

**6-02.3(9).GR6 Precast Concrete Panels**

**6-02.3(9)A.GR6 Shop Drawings**

6-02.3(9)A.INST2.GR6 (The list included in the third paragraph of Section 6-02.3(9)A is supplemented with the following)
Must use once preceding any of the following:

6-02.3(9)A.OPT6.GB6 (PCPS Conc. SIP Panels)
(September 8, 2020)
Use in projects with precast prestressed concrete stay-in-place panels. Include with **6-02.2.OPT61.GB6, 6-02.3(9)E.OPT6.GB6, 6-02.3(9)F.OPT1.GB6, 6-02.3(9)G.OPT6.GB6 and 6-02.3(9)I.OPT6.GB6.**

**6-02.3(9)E.GR6 Finishing**

6-02.3(9)E.INST1.GR6 (Section 6-02.3(9)E is supplemented with the following)
Must use once preceding any of the following:

6-02.3(9)E.OPT6.GB6 (PCPS Conc. SIP Panels)
(September 8, 2020)
Use in projects with precast prestressed concrete stay-in-place panels. Include with **6-02.2.OPT61.GB6, 6-02.3(9)A.OPT6.GB6, 6-02.3(9)F.OPT1.GB6, 6-02.3(9)G.OPT6.GB6 and 6-02.3(9)I.OPT6.GB6.**

**6-02.3(9)F.GR6 Tolerances**

6-02.3(9)F.INST1.GR6 (Section 6-02.3(9)F is supplemented with the following)
Must use once preceding any of the following:

6-02.3(9)F.OPT1.GB6 (PCPS Conc. SIP Panels)
(September 8, 2020)
Use in projects with precast prestressed concrete stay-in-place panels. Include with **6-02.2.OPT61.GB6, 6-02.3(9)A.OPT6.GB6, 6-02.3(9)E.OPT6.GB6, 6-02.3(9)G.OPT6.GB6 and 6-02.3(9)I.OPT6.GB6.**

**6-02.3(9)G.GR6 Handling and Storage**

6-02.3(9)G.INST1.GR6 (Section 6-02.3(9)G is supplemented with the following)
Must use once preceding any of the following:

6-02.3(9)G.OPT6.GB6 (PCPS Conc. SIP Panels)
(September 8, 2020)
Use in projects with precast prestressed concrete stay-in-place panels. Include with **6-02.2.OPT61.GB6, 6-02.3(9)A.OPT6.GB6, 6-02.3(9)E.OPT6.GB6, 6-02.3(9)F.OPT1.GB6 and 6-02.3(9)I.OPT6.GB6.**

**6-02.3(9)I.GR6 Erection**

6-02.3(9)I.INST1.GR6 (Section 6-02.3(9)I is supplemented with the following)
Must use once preceding any of the following:

6-02.3(9)I.OPT6.GB6 (PCPS Conc. SIP Panels)
(September 8, 2020)
Use in projects with precast prestressed concrete stay-in-place panels. Include with **6-02.2.OPT61.GB6, 6-02.3(9)A.OPT6.GB6, 6-02.3(9)E.OPT6.GB6, 6-02.3(9)F.OPT1.GB6 and 6-02.3(9)G.OPT6.GB6.**

**6-02.3(10).GR6 Bridge Decks and Bridge Approach Slabs**

**6-02.3(10)D.GR6 Concrete Placement, Finishing, and Texturing**

6-02.3(10)D.INST1.GR6 (Section 6-02.3(10)D is supplemented with the following)
Must use once preceding any of the following:

6-02.3(10)D.OPT1.GB6 (Repairing Slab Left Exposed After Removing Existing Curb or Sidewalk)
(August 4, 2008)

Use in projects when existing curbs or sidewalks are to be removed and the portion of the slab under the curb or sidewalk that is to remain exposed will be within two feet from the traffic lane.

6-02.3(10)D.OPT2.GB6 (Repairing Slab Left Exposed After Removing
Existing Curb or Railbase)
(August 4, 2008)
Use in projects when existing curbs or railbases are to be removed and the portion of the slab under the curb or railbase that is to remain exposed will be more than two feet from the traffic lane.

6-02.3(10)D.OPT3.GB6 (Bridge Drain Risers)
(August 3, 2015)
Use in projects requiring the raising of bridge drains prior to asphalt or modified concrete overlay work on bridge decks. Include with ***6-02.2.OPT48.GB6***. Include with ***6-02.3(10)D.OPT4.GB6*** if the bridge deck is overlaid with membrane waterproofing and ACP. Include with ***6-02.5.OPT53.FB6*** if the work is included in the cost of the membrane waterproofing or modified concrete overlay. Include with ***6-02.4.OPT26.GB6*** and ***6-02.5.OPT51.GB6*** if the unit contract bid item "Modify Bridge Drain" is used to pay for the work.
Must use once preceding any of the following:

6-02.3(10)D.OPT3(A).GB6 (Bridge Drain Risers)
(August 4, 2008)
Use in projects requiring the raising of bridge drains prior to membrane waterproofing and asphalt overlay work. Include with ***6-02.2.OPT48.GB6*** and ***6-02.3(10)D.OPT3.GB6***. Include with ***6-02.5.OPT53.FB6*** if the work is included in the cost of the membrane waterproofing. Include with ***6-02.4.OPT26.GB6*** and ***6-02.5.OPT51.GB6*** if the unit contract bid item "Modify Bridge Drain" is used to pay for the work.

6-02.3(10)D.OPT5.GB6 (Plugging Existing Bridge Drain)
(August 3, 2015)
Use in projects requiring plugging of bridge drains. Include with ***6-02.5.OPT53.FB6*** if the work is included in the cost of the membrane waterproofing or modified concrete overlay. Include with ***6-02.4.OPT27.GB6*** and ***6-***

***02.5.OPT52.GB6*** if the unit contract bid item "Plugging Existing Bridge Drain" is used to pay for the work.

6-02.3(10)D.OPT12.GB6 (Core Drilled Bridge Deck Drain)
(April 6, 2015)
Use in projects with core drilled bridge deck drains. Include with **6-02.2.OPT58.GB6, and either 6-02.4.OPT32.GB6 and 6-02.5.OPT58.GB6, or 6-02.5.OPT59.FB6.**

**6-02.3(10)F.GR6 Bridge Approach Slab Orientation and Anchors**

6-02.3(10)F.INST1.GR6 (Section 6-02.3(10)F is supplemented with the following)
Must use once preceding any of the following:

6-02.3(10)F.OPT2.GB6 (Construct pavement end of approach slabs parallel to pavement seat)
(August 4, 2008)
Use in projects when the pavement ends of all approach slabs are constructed parallel to the pavement seat.

6-02.3(10)F.OPT3.FB6 (Construct pavement end of approach slabs both
normal to the roadway centerline and parallel to pavement seat)
(August 4, 2008)
Use in projects when the pavement ends of the approach slabs are constructed both normal to the roadway centerline and parallel to the pavement seat.
(2 fill-ins)

**6-02.3(13).GR6 Expansion Joints**

6-02.3(13).INST1.GR6 (Section 6-02.3(13) is supplemented with the following)
Must use once preceding any of the following:

6-02.3(13).OPT7.GB6 Expansion Joint Modification

6-02.3(13).OPT7(B).GB6 (Expansion Joint Demolition Plan)
(April 6, 2015)
Use in projects where removal of portions of the existing bridge expansion joint assembly, and/or adjacent concrete and steel reinforcing bars, is required. Include with ***6-02.3(13).OPT7(E).FB6, 6-02.4.OPT8.FB6*** *and* ***6-02.5.OPT33.GB6,*** *and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13)*.

6-02.3(13).OPT7(C).GB6 (Joint Preparation and Installation Procedure)
(April 6, 2015)
Use in projects where rapid cure silicone sealant is used for expansion joint modification. Include with **6-02.2.OPT26.GB6, either 6-02.3(13).OPT7(I).GB6 or 6-02.3(13).OPT7(J).GB6, 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6,** and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).

6-02.3(13).OPT7(D).FB6 (Field Measuring Existing Expansion Joint)
(April 6, 2015)
Use in projects where field measuring of the existing expansion joint is required. The fill-in specifies the bridge(s) included in the field measuring requirement. Include with ***6-02.4.OPT8.FB6*** *and* ***6-02.5.OPT33.GB6,*** *and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13)*.
(1 fill-in)

6-02.3(13).OPT7(E).FB6 (Removing Portions of Existing Bridge Expansion Joints)
(April 6, 2015)
Use in projects where removal of portions of the existing bridge expansion joint assembly, and/or adjacent concrete and steel reinforcing bars, is required. The fill-in specified the bridge(s) where the expansion joint removal work is required. Include with ***6-02.3(13).OPT7(B).GB6, 6-02.4.OPT8.FB6*** *and* ***6-02.5.OPT33.GB6,*** *and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13)*.
(1-fill-in)

6-02.3(13).OPT7(F).GB6 (Drilling Holes and Setting St. Reinf. Bars)
(April 6, 2015)
Use in projects with expansion joint modification where drilling holes and setting steel reinforcing bar dowels are required. Include with ***6-02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6-02.4.OPT8.FB6*** *and* ***6-02.5.OPT33.GB6,*** *and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13)*.

6-02.3(13).OPT7(G).GB6 (Placing Polyester Concrete or

Elastomeric Concrete Headers)
(April 6, 2015)
Use in projects when the headers for modified bridge expansion joints are made of either polyester concrete or elastomeric concrete. Include with either ***6-02.2.OPT27.GB6*** *and* ***6-02.3.OPT9.GB6,*** *or* ***6-02.2.OPT28.GB6*** *and* ***6-02.3.OPT10.GB6, 6-02.4.OPT8.FB6*** *and* ***6-02.5.OPT33.GB6,*** *and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13)*.

6-02.3(13).OPT7(H).GB6 (Placing Concrete Headers)
(September 8, 2020)
Use in projects where the headers for modified bridge expansion joints are made of concrete. Include with **6-02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6-02.3(13).OPT7(F).GB6, 6-02.3(2).OPT1.GB6, 6-02.4.OPT8.FB6 and 6-02.5.OPT33.GB6,** and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).

6-02.3(13).OPT7(I).GB6 (Placing Expansion Joint Sealant)
(September 8, 2020)
Use in projects where rapid cure silicone sealant is used for modified bridge expansion joints with concrete or polymer concrete or polyester concrete or elastomeric concrete headers. Include with ***6-02.2.OPT26.GB6, 6-02.3(13).OPT7(C).GB6, 6-02.4.OPT8.FB6*** *and* ***6-02.5.OPT33.GB6,*** *and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13)*.

6-02.3(13).OPT7(J).GB6 (Placing Expansion Joint Sealant)
(September 8, 2020)
Use in projects where rapid cure silicone sealant is used for modified bridge expansion joints with modified concrete overlay headers. To be used only for bridges with low ADT, and only with the approval of the Bridge and Structures Office Bearing and Expansion Joint Specialist. Include with ***6-02.2.OPT26.GB6, 6-02.3(13).OPT7(C).GB6, 6-02.4.OPT8.FB6*** *and* ***6-02.5.OPT33.GB6,*** *and all other applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13) and the pertinent modified concrete overlay GSP's*.

**6-02.3(13)C.GR6 Modular Expansion Joint System**

6-02.3(13)C.INST1.GR6 (Section 6-02.3(13)C is supplemented with

the following)
Must use once preceding any of the following:

6-02.3(13)C.OPT1.FB6 (Acceptable Manufacturers)
(September 8, 2020)
Include in projects requiring a modular expansion joint system. The fill-in specifies the percentage of the amplified vertical load range to be used for the horizontal load range for the fatigue design. The fill-in value shall be 20-percent except for installations at locations subject to significant braking and acceleration forces or subject to particularly large movement ranges where the fill-in value shall be 50-percent. Coordination with the Bridge and Structures Office Bridge Bearing and Expansion Joint Specialist is required.
Include with **6-02.4.OPT3.FB6** and **6-03.3(30).FB6**.
(1-fill-in)

**6-02.3(14).GR6 Finishing Concrete Surfaces**

**6-02.3(14)C.GR6 Pigmented Sealer for Concrete Surfaces**

6-02.3(14)C.INST1.GR6 (Section 6-02.3(14)C is supplemented with the following)
Must use once preceding any of the following:

6-02.3(14)C.OPT1.GB6 (Washington Gray Pigmented Sealer)
(April 6, 2009)
Use in projects requiring application of pigmented sealer to concrete surfaces, with Washington Gray being the sole color.

6-02.3(14)C.OPT2.GB6 (Mt. St. Helens Gray Pigmented Sealer)
(April 6, 2009)
Use in projects requiring application of pigmented sealer to concrete surfaces, with Mt. St. Helens Gray being the sole color.

6-02.3(14)C.OPT3.GB6 (Mt. Baker Gray Pigmented Sealer)
(April 6, 2009)
Use in projects requiring application of pigmented sealer to concrete surfaces, with Mt. Baker Gray being the sole color.

6-02.3(14)C.OPT4.GB6 (Cascade Green Pigmented Sealer)
(April 6, 2009)
Use in projects requiring application of pigmented sealer to concrete surfaces, with Cascade Green being the sole color.

6-02.3(14)C.OPT5.FB6 (Multiple Color Pigmented Sealer)

(April 6, 2009)
Use in projects requiring application of pigmented sealer to concrete surfaces, with two or more colors specified. Each fill-in pair is to be used to specify the structural features receiving a specific color of pigmented sealer.
(2 fill-ins)

**6-02.3(17).GR6 Falsework and Formwork**

**6-02.3(17)C.GR6 Falsework and Formwork at Special Locations**

6-02.3(17)C.INST1.GR6 (Section 6-02.3(17)C is supplemented with the following)
Must use once preceding any of the following:

6-02.3(17)C.OPT1.FB6 (Falsework Adjacent to or over Railroad Tracks)
(~~September 3, 2019~~October 3, 2022)
Use in bridge projects requiring falsework adjacent to or over railroad tracks.
(1 fill-in)
Contact the Railroad Liaison Engineer (360) 705-7271 for the fill in information.

**6-02.3(17)K.GR6 Concrete Forms on Steel Spans**

6-02.3(17)K.INST1.GR6 (The first paragraph of Section 6-02.3(17)K is revised to read as follows)
Must use once preceding any of the following:

6-02.3(17)K.OPT1.GB6 (Stay-in-place Metal forms for Steel Box Girders)
(August 3, 2015)
Use in projects with steel box girder bridges when stay-in-place metal forms are allowed by the Bridge and Structures Office Steel Specialist. Include with ***6-02.4.OPT1.FB6, 6-02.5.OPT26.FB6, 6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6, 6-03.3(39).OPT1.GB6,*** and ***6-03.4.OPT1.FB6***.

**6-02.3(18).GR6 Placing Anchor Bolts**

6-02.3(18).INST1.GR6 (Section 6-02.3(18) is supplemented with the . following)
Must use once preceding any of the following:

6-02.3(18).OPT1.GR6 (January 3, 2011)
Include in projects requiring resin bonded anchors for attaching and anchoring items to concrete structures. Must also include **6-02.2.OPT1.GR6**.

**6-02.3(24).GR6 Reinforcement**

**6-02.3(24)C.GR6 Placing and Fastening**

6-02.3(24)C.INST1.GR6 (Section 6-02.3(24)C is supplemented with the following)
Must use once preceding any of the following:

6-02.3(24)C.OPT1.GB6 (Drilling Holes for, and Setting, Steel Reinforcing Bar Dowels)
(September 8, 2020)
Use in projects where holes are drilled into existing concrete and steel reinforcing bar dowels are set with epoxy resin. Include with ***6-02.2.OPT2.GB6***. Include the above with ***2-02.1.OPT3.GR2, 2-02.3(2).OPT8.GB2, 2-02.3(2).OPT12.GR2,*** and either ***2-02.5.OPT7.GR2*** or ***2-02.5.OPT10.GR2*** when extending a conc. box culvert.

**6-02.3(26).GR6 Cast-in-Place Prestressed Concrete**

6-02.3(26).INST1.GR6 (The third paragraph of Section 6-02.3(26) is revised to
read as follows)
Must use once preceding any of the following:

6-02.3(26).OPT1.GB6 (Cast-in-Place Prestressed Concrete)
(January 4, 2010)
Use in projects with segmental post-tensioned structures. Check with the Region Construction Engineer to see if testing equipment is available.

**6-02.4.GR6 Measurement**

6-02.4.INST1.GR6 (Section 6-02.4 is supplemented with the following)
Must use once preceding any of the following:

6-02.4.OPT1.FB6 (Summary of Quantities for Superstructure and Bridge Deck)
(September 8, 2020)
Use in bridge construction projects with lump sum items for superstructure or bridge deck. The first and third fill-in specify the appropriate bid item name ("Superstructure - _____" or "Bridge Deck - _____"). The second fill-in itemizes the approximate quantities included. Include with ***6-02.5.OPT26.FB6*** when the "Bridge Deck - _____" bid item is used.
(3 fill-ins)

6-02.4.OPT3.FB6 (Modular Expansion Joint System)
(September 8, 2020)
Include in projects requiring a modular expansion joint system. The fill-in in is to itemize the quantities of work and

materials included in the lump sum item. Coordination with the Bridge and Structures Office Bearing and Expansion Joint Specialist is required. Include with **6-02.3(13)C.OPT1.FB6 and *6-03.3(30).OPT1.FB6*.**
(1 fill-in)

6-02.4.OPT8.FB6 (Expansion Joint Modification)
(September 8, 2020)
Use in projects with lump sum item for expansion joint modification. The fill-in specifies the approximate quantities included. Include with **6-02.5.OPT33.GB6** and all applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).
(1 fill-in)

6-02.4.OPT24.GB6 (Epoxy Crack Sealing)
(August 6, 2012)
Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with ***6-02.2.OPT4.GB6, 6-02.3.OPT1.GB6,*** and ***6-02.5.OPT49.GB6***.

6-02.4.OPT26.GB6 (Modifying Bridge Drain)
(June 26, 2000)
Use in projects where modifying bridge drains is a stand-alone bid item. Include with ***6-02.2.OPT48.GB6, 6-02.3(10)D.OPT3.GB6,*** and ***6-02.5.OPT51.GB6*** with modified concrete overlay projects. Include the above with ***6-02.3(10)D.OPT4.GB6*** with membrane waterproofing and ACP overlay projects.

6-02.4.OPT27.GB6 (Plugging Existing Bridge Drain)
(June 26, 2000)
Use in projects where plugging existing bridge drains is a stand-alone bid item. Include with ***6-02.3(10)D.OPT5.GB6*** and ***6-02.5.OPT52.GB6***.

6-02.4.OPT32.GB6 (Core Drilled Bridge Deck Drain)
(April 6, 2015)
Use in projects where core drilled bridge deck drain is a stand-alone bid item. Include with 6-**02.2.OPT58.GB6, 6-02.3(10)D.OPT12.GB6, and 6-02.5.OPT58.GB6.**

6-02.4.OPT43.GB6 (Longitudinal Seismic Restrainer)
(April 6, 2015)
Use in projects where longitudinal seismic restrainer is a stand-alone bid item. Include with **6-02.2.OPT60(B).GB6, 6-02.2.OPT60(C).GB6, 6-02.2.OPT60(D).GB6, 6-02.3.OPT8(L).GB6, 6-02.3(18).OPT1.GR6, 6-02.5.OPT71.GB6** and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.4.OPT44.FB6 (Seismic Retrofit)

(September 8, 2020)
Use in projects with a lump sum item for seismic retrofit. The fill-in specifies the approximate quantities included. Include with ***6-02.5.OPT72.GB6*** *and all other applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3*.
(1 fill-in)

6-02.4.OPT45.FB6 (Column Jacketing)
(September 8, 2020)
Use in projects with a lump sum item for column jacketing. The fill-in specifies the approximate quantities included. Include with ***6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.5.OPT73.GB6,*** *and* ***6-03.3(30).OPT1.FB6***. Include with ***6-02.3.OPT8(F).FB6*** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.
(1 fill-in)

**6-02.5.GR6 Payment**

6-02.5.INST3.GR6 (The fifth and sixth bid items under Section 6-02.5 are supplemented with the following)
Must use once preceding any of the following:

6-02.5.OPT20.GB6 (Epoxy-coated St. Reinf. Bar for Bridge)
(April 6, 2015)
Use in projects with small amounts of epoxy-coated steel reinforcing bar in bridge substructure which is included in the quantity for “St. Reinf. Bar for Bridge” in lieu of a separate stand-alone bid item.

6-02.5.INST4.GR6 (Section 6-02.5 is supplemented with the following)
Must use once preceding any of the following:

6-02.5.OPT26.FB6 (Bridge Deck)
(August 2, 2010)
Use in steel bridge construction projects with lump sum items for bridge deck. The fill-in specifies work items included in the bid item. Include with ***6-02.4.OPT1.FB6***.
(1 fill-in)

6-02.5.OPT33.GB6 (Expansion Joint Modification)
(April 6, 2015)
Use in projects where expansion joint modification is a lump sum item. Include with **6-02.4.OPT8.FB6** and all applicable expansion joint modification GSPs supplementing Sections 6-02.2 and 6-02.3(13).

6-02.5.OPT49.GB6 (Epoxy Crack Sealing)
(August 1, 2011)

Use in projects which require sealing cracks in existing concrete with injected epoxy resin. Include with ***6-02.2.OPT4.GB6, 6-02.3.OPT1.GB6,*** and ***6-02.4.OPT24.GB6***.

6-02.5.OPT51.GB6 (Modify Bridge Drain)
(June 26, 2000)
Use in projects where modifying bridge drains is a stand-alone bid item. Include with ***6-02.2.OPT48.GB6, 6-02.3(10)D.OPT3.GB6,*** and ***6-02.4.OPT26.GB6*** with modified concrete overlay projects. Include the above with ***6-02.3(10)D.OPT4.GB6*** with waterproof membrane and HMA overlay projects.

6-02.5.OPT52.GB6 (Plugging Existing Bridge Drain)
(June 26, 2000)
Use in projects where plugging existing bridge drains is a stand-alone bid item. Include with ***6-02.3(10)D.OPT5.GB6*** and ***6-02.4.OPT27.GB6***.

6-02.5.OPT53.FB6 (Modifying or Plugging Existing Bridge Drain)
(June 26, 2000)
Use in projects where payment for modifying or plugging existing bridge drains is included under either "Waterproof Membrane" or "Finishing and Curing Modified Conc. Overlay". The first fill-in specifies whether the work is modifying or plugging existing bridge drains. The second fill-in specifies appropriate pay item for the work. Include with ***6-02.2.OPT48.GB6,*** and ***6-02.3(10)D.OPT3.GB6*** for modifying bridge drains with modified concrete overlay projects. Include the above with ***6-02.3(10)D.OPT4.GB6*** for modifying bridge drains with waterproof membrane and HMA overlay projects. Include with ***6-02.3(10)D.OPT5.GB6*** for plugging existing bridge drains.
(2 fill-ins)

6-02.5.OPT58.GB6 (Core Drilled Bridge Deck Drain)
(April 6, 2015)
Use in projects where core drilled bridge deck drain is a stand-alone bid item. Include with **6-02.2.OPT58.GB6, 6-02.3(10)D.OPT12.GB6, and 6-02.4.OPT32.GB6.**

6-02.5.OPT59.FB6 (Core Drilled Bridge Deck Drain)
(April 6, 2015)
Use in projects where core drilled bridge deck drain is included in a separate bid item. The fill-in specifies the bid item including this work. Include with ***6-02.2.OPT58.GB6*** *and* ***6-02.3(10)D.OPT12.GB6***.
(1 fill-in)

6-02.5.OPT71.GB6 (Longitudinal Seismic Restrainer)
(April 6, 2015)
Use in projects where longitudinal seismic restrainer is a stand-alone bid item. Include with **6-02.2.OPT60(B).GB6,**

**6-02.2.OPT60(C).GB6, 6-02.2.OPT60(D).GB6, 6-02.3.OPT8(L).GB6, 6-02.3(18).OPT1.GR6, 6-02.4.OPT43.GB6** and all applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.5.OPT72.GB6 (Seismic Retrofit)
(April 6, 2015)
Use in projects with seismic retrofit of bridges. Include with **6-02.4.OPT44.FB6** and all applicable seismic retrofit GSPs supplementing Sections 6-02.2 and 6-02.3.

6-02.5.OPT73.GB6 (Column Jacketing)
(April 6, 2015)
Use in projects with column jacketing of bridges. Include with **6-02.2.OPT60(F).GB6, 6-02.3.OPT8(C).GB6, 6-02.3.OPT8(D).GB6, 6-02.3.OPT8(E).GB6, 6-02.3.OPT8(M).GB6, 6-02.4.OPT45.FB6, and 6-03.3(30).OPT1.FB6. Include with 6-02.3.OPT8(F).FB6** when the pre-fabrication field measuring requirements for specific existing bridge columns are waived.

6-02.5.OPT91.FB6 (Bridge and Structures Minor Items)
(June 26, 2000)
Use in projects with bridges and other structures when there are minor items that are incidental to a lump sum or a unit price bid item. The first fill-in specifies the minor items. The second fill-in specifies the appropriate pay item(s) for the minor items.
(2 fill-ins)

6-02.5.OPT92.FB6 (Bridge Supported Utilities)
(June 26, 2000)
Use in projects requiring installation of bridge supported utilities. The first fill-in specifies the type of utility. The second fill-in specifies the bridge(s). The third fill-in specifies the work performed by the Contractor (furnishing materials, installing materials, coordination with utility, etc.), excluding furnishing and installing inserts. The fourth fill-in specifies the pay item. Include with ***6-02.3.OPT2(B).GB6***, with appropriate bridge supported utility material GSP's, if all materials and work are supplied and performed by the Contractor. Include with ***6-02.3.OPT2(C).GB6*** and ***6-02.5.OPT93.GB6*** if a utility company is supplying and performing a portion of the utility materials and work. Include with ***6-02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6,*** and ***6-02.5.OPT26.FB6*** when the supports include concrete inserts.
(4 fill-ins)

6-02.5.OPT93.GB6 (Bridge Supported Utilities)
(June 26, 2000)
Use in projects requiring installation of bridge supported utilities where a utility company is supplying and performing

a portion of the utility materials and work. Include with ***6-02.3.OPT2(C).GB6*** and ***6-02.5.OPT92.FB6***, and appropriate bridge supported utility material GSP's. Include with ***6-02.2.OPT46(A).GB6, 6-02.3.OPT2(A).GB6, 6-02.4.OPT1.FB6,*** and ***6-02.5.OPT26.FB6*** when the supports include concrete inserts.

**6-03.GR6 Steel Structures**

**6-03.3.GR6 Construction Requirements**

**6-03.3(7).GR6 Shop Plans**

**6-03.3(7)A.GR6 Erection Methods**

6-03.3(7)A.INST1.GR6 (The list in the second paragraph of Section 6-03.3(7)A is supplemented with the following)
Must use once preceding any of the following:

6-03.3(7)A.OPT1.GB6 (Erection by Girder Launching)
(April 6, 2015)
Use in projects where girder launching may be used as an erection method.

6-03.3(7)A.OPT2.GB6 (Hand-held Drilling and Reaming)
(April 6, 2015)
Use in projects where drilling and reaming operations with hand-held devices is permissible. Include with ***6-03.3(27)B.OPT1.FB6***.
(1 fill-in)

**6-03.3(25).GR6 Welding and Repair Welding**

6-03.3(25).INST1.GR6 (Section 6-03.3(25) is supplemented with the following)
Must use once preceding any of the following:

6-03.3(25).OPT2.GB6 (Narrow Gap Improved-Electroslag Welding (NGI-ESW) Procedure)
(April 6, 2015)
Use in projects with steel plate girder bridges and box girder bridges primarily with Grades 50 and 50W steel. Accompanying details are required in the Plans for NGI-ESW test joint configurations for WPS qualification and charpy v-notch test specimens.

**6-03.3(27).GR6 High Strength Bolt Holes**

**6-03.3(27)B.GR6 Reamed and Drilled Holes**

6-03.3(27)B.INST1.GR6 (The second sentence of the first paragraph of Section 6-03.3(27)B is revised to read)
Must use once preceding any of the following:

6-03.3(27)B.OPT1.FB6 (Hand-held Drilling and Reaming)
(September 8, 2020)
Use in projects where drilling and reaming operations with hand-held devices is permissible. The first fill-in specifies the members and items being drilled and reamed, and the second fill-in specifies the bridge(s) where the work is being done. Include with ***6-03.3(7)A.OPT2.GB6.***
(2 fill-ins)

**6-03.3(28).GR6 Shop Assembly**

**6-03.3(28)A.GR6 Method of Shop Assembly**

6-03.3(28)A.INST1.GR6 (Section 6-03.3(28)A is supplemented with the following)
Must use once preceding any of the following:

6-03.3(28)A.OPT1.GB6 (Progressive Transverse Shop Assembly)
(August 5, 2013)
Use in projects with new steel girder bridges that have curved or skewed geometry, with the concurrence of the Bridge and Structures Office Steel Specialist. Include with ***6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6, 6-03.3(39).OPT1.GB6, 6-03.4.OPT1.FB6, and 6-03.5.OPT1.GB6.***

**6-03.3(28)B.GR6 Check of Shop Assembly**

6-03.3(28)B.INST1.GR6 (Section 6-03.3(28)B is supplemented with the following)
Must use once preceding any of the following:

6-03.3(28)B.OPT1.GB6 (Check of Shop Assembly)
(August 3, 2015)
Use in projects with new steel bridges. Include with **6-03.3(30).OPT1.FB6, 6-03.3(39).OPT1.GB6, 6-03.4.OPT1.FB6, and 6-03.5.OPT1.GB6**.

**6-03.3(30).GR6 Painting**

6-03.3(30).INST1.GR6 (Section 6-03.3(30) is supplemented with the following)
Must use once preceding any of the following:

6-03.3(30).OPT1.FB6 (Color of Finish Coat)
(August 3, 2009)
Use in projects with new steel bridges and steel members to cover paint color requirements by specifying the SAE AMS Standard 595 Color Number, or the color name if no number. Include with ***6-***

***03.3(28)B.OPT1.GB6, 6-03.3(39).OPT1.GB6, 6-03.4.OPT1.FB6, and 6-03.5.OPT1.GB6***.

Also include in projects with new minor steel items such as steel expansion joints (***6-02.3(13).OPT3.FB6, 6-02.4.OPT3.FB6, 6-02.5.OPT28.GB6, and 6-02.2.OPT22.GB6***) and bearings (***6-02.3(19)B.OPT1.GB6***).
(1 fill-in)

6-03.3(30).OPT6.FB6 (Painting Galvanized Seismic Retrofit Components)
(April 6, 2015)
Use in seismic retrofit projects where galvanized steel components are attached to painted members of existing steel bridges to cover paint color requirements. The first fill-in specifies the galvanized components to be painted. The second fill-in specifies the SAE AMS Standard 595 Color Number, or the color name if no number.
(2 fill-ins)

**6-03.3(38).GR6 Placing Superstructure**

6-03.3(38).INST1.GR6 (Section 6-03.3(38) is supplemented with the following)
Must use once preceding any of the following:

6-03.3(38).OPT1.GB6 (Concrete Protection)
(August 3, 2015)
Use within projects with bridges having weathering steel superstructure members which remain unpainted at completion of construction, and which are above concrete surfaces which require protection from staining while the steel members develop their weathered protective surface. Include with ***6-03.5.OPT7.FB6***.

**6-03.3(39).GR6 Swinging the Span**

6-03.3(39).INST1.GR6 (Section 6-03.3(39) is supplemented with the following)
Must use once preceding any of the following:

6-03.3(39).OPT1.GB6 (Girder Camber Field Measurements)
(June 26, 2000)
Use in projects with new steel bridges. Include with **6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6, 6-03.4.OPT1.FB6, and 6-03.5.OPT1.GB6.**

**6-03.4.GR6 Measurement**

6-03.4.INST1.GR6 (Section 6-03.4 is supplemented with the following)
Must use once preceding any of the following:

6-03.4.OPT1.FB6 (Structural Low Alloy Quantities)

(August 6, 2007)
Use in projects with new steel bridges. Include with **6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6,** and **6-03.3(39).OPT1.GB6.** Include with **6-03.5.OPT1.GB6** when the steel girder includes a pipe railing.
(2 fill-ins)

**6-03.5.GR6 Payment**

6-03.5.INST1.GR6 (The second bid item under Section 6-03.5 is supplemented with the following)
Must use once preceding any of the following:

6-03.5.OPT1.GB6 (Payment for Steel Girder Railing)
(August 6, 2007)
Use in projects with new steel bridges when the steel girder includes a pipe railing. Include with **6-03.3(28)B.OPT1.GB6, 6-03.3(30).OPT1.FB6, 6-03.3(39).OPT1.GB6, and 6-03.4.OPT1.FB6.**

6-03.5.INST2.GR6 (Section 6-03.5 is supplemented with the following)
Must use once preceding any of the following:

6-03.5.OPT7.FB6 (Payment for Concrete Protection)
(June 26, 2000)
Use in projects with bridges having weathering steel members which remain unpainted at the completion of construction, and which are above concrete surfaces which require protection from staining while the steel members develop their weathered protective surface. Include with ***6-03.3(38).OPT1.GB6.***
(1 fill-in)

**6-04.GR6 Timber Structures**

**6-04.3.GR6 Construction Requirements**

**6-04.3(1).GR6 Storing and Handling Material**

6-04.3(1).INST1.GR6 (Section 6-04.3(1) is supplemented with the following)
Must use once preceding any of the following:

6-04.3(1).OPT1.GB6 (Fire Prevention)
(March 6, 2000)
Use in all timber bridge construction and timber deck replacement projects. Include with ***6-04.5.OPT1.FB6***.

6-04.3(1).OPT2.GB6 (Top Flange Treatment)
(January 2, 2018)
Include in timber redecking projects. Include with ***6-04.3(1).OPT1.GB6***, ***6-04.5.OPT1.FB6***, ***and 6-04.5.OPT2.FB6***.

**6-04.5.GR6 Payment**

6-04.5.INST1.GR6 (Section 6-04.5 is supplemented with the following)
Must use once preceding any of the following:

6-04.5.OPT1.FB6 (Fire Protection)
(March 6, 2000)
Use in all timber bridge construction and timber deck replacement projects. Include with ***6-04.3(1).OPT1.GB6***.
(1 fill-in)

6-04.5.OPT2.FB6 (Top Flange Treatment)
(March 6, 2000)
Use in timber deck replacement projects. Include with ***6-04.3(1).OPT1.GB6***, ***6-04.3(1).OPT2.GB6***, ***and 6-04.5.OPT1.FB6***.
(1 fill-in)

**6-05.GR6 Piling**

**6-05.2.GR6 Materials**

6-05.2.INST1.GR6 (Section 6-05.2 is supplemented with the following)
Must use once preceding any of the following:

6-05.2.OPT1.GB6 Micropiles
(April 6, 2015)
Use in projects where micropiles are required. Include with **6-05.3.OPT1.FB6, 6-05.4.OPT6.GB6, and 6-05.5.OPT6.GB6.**

**6-05.3.GR6 Construction Requirements**

6-05.3.INST1.GR6 (Section 6-05.3 is supplemented with the following)
Must use once preceding any of the following:

6-05.3.OPT1.FB6 Micropiles
(~~September 8, 2020~~October 3, 2022)
Use in projects where micropiles are required. The first fill-in specifies the top elevation of the micropile bond zone. The second fill-in specified the permanent casting minimum tip elevations. The third fill-in specifies the location(s) of micropile verification tests. Include with ***6-05.2.OPT1.FB6, 6-05.4.OPT6.GB6, and 6-05.5.OPT6.GB6***.
(Three fill-ins)

**6-05.3(5).GR6 Manufacture of Steel Piles**

6-05.3(5).INST1.GR6 (Section 6-05.3(5) is supplemented with the following)
Must use once preceding any of the following:

6-05.3(5).OPT1.GB6 (Furnishing St. Piling)
(September 8, 2020)

Use in projects with steel piling where the piling consists of hollow steel pipe that may or may not be filled with concrete and steel reinforcing bars for a portion of its length. Include with ***6-05.3(6).OPT1.GB6***

**6-05.3(6).GR6 Splicing Steel Casings and Steel Piles**

6-05.3(6).INST1.GR6 (Section 6-05.3(6) is supplemented with the following)
Must use once preceding any of the following:

6-05.3(6).OPT1.GB6 (Furnishing St. Piling)
(September 8, 2020)
Use in projects with steel piling where the piling consists of hollow steel pipe that may or may not be filled with concrete and steel reinforcing bars for a portion of its length. Include with ***6-05.3(5).OPT1.GB6***.

**6-05.3(10).GR6 Test Piles**

6-05.3(10).INST1.GR6 (Section 6-05.3(10) is supplemented with the following)
Must use once preceding any of the following:

6-05.3(10).OPT1.FB6 (Furnishing and Driving Test Piles)
(March 6, 2000)
Include in projects having test piles, as recommended by the Materials Laboratory Geotechnical Branch. The first, third, and fourth fill-ins specify the pile type (cast-in-place conc., steel, timber, etc.). The second fill-in specifies the general location (bridge and pier).
(4 fill-ins)

**6-05.3(11).GR6 Driving Piles**

**6-05.3(11)D.GR6 Achieving Minimum Tip Elevation and Bearing**

6-05.3(11)D.INST1.GR6 (Section 6-05.3(11)D is supplemented with the following)
Must use once preceding any of the following:

6-05.3(11)D.OPT2.GB6 (Vibration From Pile Driving)
(August 3, 2015)
Include in projects where minimizing vibration from driving piles is critical, as recommended by the Materials Laboratory Geotechnical Branch.

6-05.3(11)D.OPT3.FB6 (Preboring Piles)
(August 3, 2015)
Include in projects where preboring of piles is required to prevent downdrag from settlement, as recommended by the Materials Laboratory

Geotechnical Branch. The first fill-in specifies the pile type (cast-in-place conc., steel, timber, etc.). The second fill-in specifies the general location (bridge and pier). The third fill-in specifies the bottom elevation of the preboring. Include with ***6-05.4.OPT1.FB6 and 6-05.5.OPT1.FB6.***
(3 fill-ins)

6-05.3(11)D.OPT4.FB6 (Preboring Piles)
(August 3, 2015)
Include in projects where preboring of piles is required, as recommended by the Materials Laboratory Geotechnical Branch. The first fill-in specifies the pile type (cast-in-place conc., steel, timber, etc.). The second fill-in specifies the general location (bridge and pier). The third fill-in specifies the bottom elevation of the preboring. Include with ***6-05.4.OPT1.FB6 and 6-05.5.OPT1.FB6.***
(3 fill-ins)

6-05.3(11)D.OPT9.FB6 (Overdriving)
(April 6, 2015)
Include in projects where overdriving of piles is anticipated in order to reach the minimum tip elevation, as recommended by the Materials Laboratory Geotechnical Branch. The first fill-in specifies the general location(s) (bridge and pier) of the anticipated pile overdriving. The second fill-in specifies the approximate magnitude of expected overdriving.
(2 fill-ins)

**6-05.4.GR6 Measurement**

6-05.4.INST1.GR6 (Section 6-05.4 is supplemented with the following)
Must use once preceding any of the following:

6-05.4.OPT1.FB6 (Preboring Piles)
(March 6, 2000)
Use in projects where preboring of piles is required, as recommended by the Materials Laboratory Geotechnical Branch. The fill-in specifies the pile type (cast-in-place conc., steel, timber, etc.). Include with ***6-05.3(11)D.OPT3.FB6 or 6-05.3(11)D.OPT4.FB6, and 6-05.5.OPT1.FB6***.
(1 fill-in)

6-05.4.OPT6.GB6 Micropiles
(April 6, 2015)
Use in projects where micropiles are required. Include with **6-05.2.OPT1.FB6, 6-05.3.OPT1.FB6, and 6-05.5.OPT6.GB6.**

**6-05.5.GR6 Payment**

6-05.5.INST1.GR6 (Section 6-05.5 is supplemented with the following)
Must use once preceding any of the following:

6-05.5.OPT1.FB6 (Preboring Piles)
(March 6, 2000)
Use in projects where preboring of piles is required, as recommended by the Materials Laboratory Geotechnical Branch. Both fill-ins specify the pile type (cast-in-place conc., steel, timber, etc.). Include with ***6-05.3(11)D.OPT3.FB6 or 6-05.3(11)D.OPT4.FB6, and 6-05.4.OPT1.FB6.***
(2 fill-ins)

6-05.5.OPT6.GB6 Micropiles
(April 6, 2015)
Use in projects where micropiles are required. Include with **6-05.2.OPT1.FB6, 6-05.3.OPT1.FB6, and 6-05.4.OPT6.GB6.**

**6-06.GR6 Bridge Railings**

**6-06.2.GR6 Materials**

6-06.2.INST1.GR6 (Section 6-06.2 is supplemented with the following)
Must use once preceding any of the following:

6-06.2.OPT1.GB6 (Bridge Railing Type Chain Link Fence)
(January 5, 2004)
Use in projects with Bridge Railing Type Chain Link Fence. Include with ***6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, and 6-06.3(2).OPT1.GB6***. Also include ***6-06.5.OPT1.FB6*** if the work is included as part of a separate bid item such as "Superstructure - ___", or "Roadway Deck - ___".

6-06.2.OPT2.GB6 (Bridge Railing Type Chain Link Fence)
(March 6, 2000)
Use in projects with Bridge Railing Type Chain Link Fence where the posts are set into blockouts with epoxy resin. Include with ***6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 6-06.2.OPT1.GB6 and 6-06.3(2).OPT2.GB6***. Also include ***6-06.5.OPT1.FB6*** if the work is included as part of a separate bid item such as "Superstructure - ___", or "Roadway Deck - ___".

6-06.2.OPT7.GB6 (Tamper Proof Nuts for steel Bridge Railing Type BP)
(April 6, 2015)
Use in projects where steel Bridge Railing Type BP is used.

6-06.2.OPT8.FB6 (Bridge Railing Type Snow Fence and Bridge Railing Type Wire Fabric Fence)

(May 28, 2020)
Use in projects with Bridge Railing Type Snow Fence or Bridge Railing Type Wire Fabric Fence. The fill-in specifies the Federal Standard 595 Color Number, or the color name if no number.
Include with **6-06.3(2).OPT7.GB6.**
(1 fill-in)

**6-06.3.GR6 Construction Requirements**

**6-06.3(2).GR6 Metal Railings**

6-06.3(2).INST1.GR6 (Section 6-06.3(2) is supplemented with the following)
Must use once preceding any of the following:

6-06.3(2).OPT1.GB6 (Bridge Railing Type Chain Link Fence)
(March 6, 2000)
Use in projects with Bridge Railing Type Chain Link Fence where the posts are fastened into position with anchor bolts or resin bonded anchors. Include with ***6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, and 6-06.2.OPT1.GB6***. Also include ***6-06.5.OPT1.FB6*** if the work is included as part of a separate bid item such as "Superstructure - ___", or "Roadway Deck - ___".

6-06.3(2).OPT2.GB6 (Bridge Railing Type Chain Link Fence)
(March 6, 2000)
Use in projects with Bridge Railing Type Chain Link Fence where the posts are set into blockouts with epoxy resin. Include with ***6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 6-06.2.OPT1.GB6 and 6-06.2.OPT2.GB6***. Also include ***6-06.5.OPT1.FB6*** if the work is included as part of a separate bid item such as "Superstructure - ___", or "Roadway Deck - ___".

6-06.3(2).OPT7.GB6 (Bridge Railing Type Snow Fence and Bridge Railing Type Wire Fabric Fence)
(May 28, 2020)
Use in projects with Bridge Railing Type Snow Fence or Bridge Railing Type Wire Fabric Fence. Include with **6-06.2.OPT8.FB6.**

**6-06.5.GR6 Payment**

6-06.5.INST1.GR6 (Section 6-06.5 is supplemented with the following)
Must use once preceding any of the following:

6-06.5.OPT1.FB6 (Bridge Railing)
(March 6, 2000)
Use in projects with bridge railing where the work is included as part of a separate bid item such as "Superstructure - ___", or "Roadway Deck - ___". The first

fill-in specifies the bridge railing type. The second fill-in specifies the bid item name.
(2 fill-ins)

## 6-07.GR6 Painting

### 6-07.1.GR6 Description

6-07.1.INST1.GR6 (Section 6-07.1 is supplemented with the following)
Must use once preceding any of the following:

6-07.1.OPT1.FB6 (Scope of Work)
(August 3, 2009)
Include in projects with cleaning and painting of existing steel bridge(s). Use to define limits of cleaning and painting by using the second fill-in to specify surfaces that are not to be painted (light fixtures, utilities, bridge attachments, etc.). Include with ***6-07.3(10)D.OPT1.FB6 and/or 6-07.3(10)E.OPT1.FB6*** as appropriate for the surface preparation requirements. Include with ***DESWORK2.FB1 and 6-07.3(10)I.OPT1.FB6***. Include with ***1-07.1.OPT2.FR1*** if the existing bridge(s) contain lead paint. Include with ***1-07.6.OPT4.GB1*** if the bridge(s) cross a navigable waterway.
(2 fill-ins)

6-07.1.OPT2.FB6 (Scope of Work)
(August 3, 2009)
Include in projects with cleaning and painting of existing timber bridge(s). Use to define limits of cleaning and painting by using the second fill-in to specify the surfaces to be painted (railing, rail posts, wheelguards, etc.). Include with ***1-07.1.OPT2.FR1*** if the existing bridge(s) contain lead paint. Project specific Special Provisions supplementing Section 6-07.3(13) may be required to specify specific primer and top coat paint requirements.
(2 fill-ins)

### 6-07.3.GR6 Construction Requirements

#### 6-07.3(10).GR6 Painting Existing Steel Structures

6-07.3(10).INST1.GR6 (Section 6-07.3(10) is supplemented with the following)
Must use once preceding any of the following:

6-07.3(10).OPT1.FB6 (Utility Conduits)
(August 3, 2009)
Include only when utility conduits are attached to the existing bridge(s) being painted. Fill-in to read "shall or "shall not". Include with ***DESWORK2.FB1, 6-07.1.OPT1.FB6*** *and* ***6-07.3(10)I.OPT1.FB6***.
(1 fill-in)

6-07.3(10).OPT2.GB6 (Light Fixtures)
(August 3, 2009)
Include only when light fixtures are attached to existing bridge(s) being painted. Include with ***DESWORK2.FB1, 6-07.1.OPT1.FB6*** *and* ***6-07.3(10)I.OPT1.FB6***.

~~6-07.3(10).OPT3.GB6 (Railroad Facilities)~~
~~(August 3, 2009)~~
~~Include when paint could spill or drip on railroad right-of-way. Include with **DESWORK2.FB1, 6-07.1.OPT1.FB6, 1-07.18.OPT1.FR1, either 07183.GR1 or 1-07.18.OPT3.GR1, and 6-07.3(10)I.OPT1.FB6.**~~

6-07.3(10).OPT4.GB6 (Cleaning Grid Deck)
(August 3, 2015)
Use with ***DESWORK2.FB1, 6-07.1.OPT1.FB6, 6-07.3(10)I.OPT1.FB6, and 6-07.3(10)N.OPT1.GB6*** if the bridge has a grid roadway deck or steel grid catwalks which require cleaning and painting.

**6-07.3(10)A.GR6 Containment**

6-07.3(10)A.INST1.GR6 (Section 6-07.3(10)A is supplemented with the following)
Must use once preceding any of the following:

6-07.3(10)A.OPT1.GB6 (Protection of Existing Structure)
(August 3, 2009)
Use only when the bridge has mechanical equipment to protect such as a draw bridge. Include with ***DESWORK2.FB1, 6-07.1.OPT1.FB6 and 6-07.3(10)I.OPT1.FB6***.

6-07.3(10)A.OPT2.FB6 (Containment System)
(September 7, 2021)
Use when a paint removal containment system must be removed from a bridge when winds at the site exceed a wind speed/gust threshold.
Fill-in #1 specifies the bridge(s) that have wind speed/gust thresholds.
Fill-in #2 specifies the wind speed/gust threshold.
(2 fill-ins)

**6-07.3(10)D.GR6 Surface Preparation Prior to Overcoat Painting**

6-07.3(10)D.INST1.GR6 (Section 6-07.3(10)D is supplemented with the following)
Must use once preceding any of the following:

6-07.3(10)D.OPT1.FB6 (Surfaces Requiring Overcoat Painting Surface Preparation)

(April 6, 2015)
Use in bridge painting projects with bridges and bridge members requiring surface preparation for overcoat painting. Include with ***DESWORK2.FB1, 6-07.1.OPT1.FB6 and 6-07.3(10)I.OPT1.FB6***. Include with ***6-07.3(10)E.OPT1.FB6*** if the bridge(s) also have bridge members requiring full paint removal. Include with ***1-07.1.OPT2.FR1*** if the existing bridge(s) contain lead paint. Include with ***1-07.6.OPT4.GB1*** if the bridge(s) cross a navigable waterway. The first fill-in specifies the bridge(s) requiring overcoat painting surface preparation. The second fill-in specifies the bridge members requiring overcoat painting surface preparation.
(2 fill-ins)

**6-07.3(10)E.GR6 Surface Preparation – Full Paint Removal**

6-07.3(10)E.INST1.GR6 (Section 6-07.3(10)E is supplemented with the following)
Use once preceding any of the following:

6-07.3(10)E.OPT1.FB6 (Surfaces Requiring Full Paint Removal Surface)
Preparation)
(April 5, 2010)
Use in bridge painting projects with bridges and bridge members requiring surface preparation for full paint removal. Include with ***DESWORK2.FB1, 6-07.1.OPT1.FB6 and 6-07.3(10)I.OPT1.FB6***. Include with ***6-07.3(10)D.OPT1.FB6*** if the bridge(s) also have bridge members requiring overcoat painting. Include with ***1-07.1.OPT2.FR1*** if the existing bridge(s) contain lead paint. Include with ***1-07.6.OPT4.GB1*** if the bridge(s) cross a navigable waterway. The first fill-in specifies the bridge(s) requiring full paint removal surface preparation. The second fill-in specifies the bridge members requiring full paint removal surface preparation.
(2 fill-ins)

**6-07.3(10)I.GR6 Paint Color**

6-07.3(10)I.INST1.GR6 (Section 6-07.3(10)I is supplemented with the following)
Must use once preceding any of the following:

6-07.3(10)I.OPT1.FB6 (Color of Top Coat)
(August 3, 2009)
Use in projects with existing steel bridges and bridge members to cover paint color requirements

by specifying the SAE AMS Standard 595 Color Number, or the color name if no number. Use with ***DESWORK2.FB1,*** and ***6-07.1.OPT1.FB6***. Include with ***6-07.3(10)D.OPT1.FB6 and/or 6-07.3(10)E.OPT1.FB6*** as appropriate for the surface preparation requirements. Include with ***1-07.1.OPT2.FR1*** if the existing bridge(s) contain lead paint. Include with ***1-07.6.OPT4.GB1*** if the bridge(s) cross a navigable waterway.
(1 fill-in)

**6-07.3(10)N.GR6 Field Coating Application Methods**

6-07.3(10)N.INST1.GR6 (Section 6-07.3(10)N is supplemented with the following)
Must use once preceding any of the following:

6-07.3(10)N.OPT1.GB6 (Painting Grid Deck)
(August 3, 2009)
Use with ***DESWORK2.FB1, 6-07.1.OPT1.FB6, 6-07.3(10).OPT4.GB6 and 6-07.3(10)I.OPT1.FB6*** if the bridge has a grid roadway deck or steel grid catwalks which require painting.

**6-07.3(11).GR6 Painting or Powder Coating of Galvanized Surfaces**

6-07.3(11).INST1.GR6 (Section 6-07.3(11) is supplemented with the following)
Must use once preceding any of the following:

6-07.3(11).OPT1.FB6 (Coating Color)
(August 3, 2009)
Use in projects requiring coating of galvanized surfaces with either paint or powder coating. The fill-in specifies the SAE AMS Standard 595 color number, or the color name if no number.
(1 fill-in)

**6-08.GR6 Bituminous Surfacing on Structure Decks**

**6-08.3.GR6 Construction Requirements**

6-08.3.INST1.GR6 (Section 6-08.3 is supplemented with the following)
Must use once preceding the following:

6-08.3.OPT1.FB6 (Surfacing Removal and Paving Equipment Load and Spacing Restrictions)
(October 29, 2020)
Use in bridge deck paving projects where specific bridges are subject to surfacing removal and paving equipment load and spacing restrictions as shown and specified in the Plans. The fill-in specifies the Bridge Number(s) of the bridge(s) affected by these restrictions.

(1-fill-in)

**6-08.3(2).GR6 Contractor Survey for Grade-Controlled Structure Decks**

6-08.3(2).INST1.GR6 (Section 6-08.3(2) is supplemented with the following)
Must use once preceding any of the following:

6-08.3(2).OPT1.FB6 (Contractor Structure Survey Not Applicable)
(January 3, 2017)
Use in projects where the Contracting Agency performs the Structure survey for Grade Controlled Structure Decks, and the Contract Plans were adjusted for Final Grade Profile and Adjusted Removal Depth as needed. The fill-in specifies the Bridge number(s) where the Contracting Agency is performing the survey.
(1 fill-in)

**6-08.3(5).GR6 Full Depth Removal of Bituminous Pavement from Bridge Decks**

6-08.3(5).INST1.GR6 (Section 6-08.3(5) is supplemented with the following)
Must use once preceding any of the following:

6-08.3(5).OPT1.FB6 (Rotary milling/planing equipment prohibited)
(January 2, 2018)
Use in bridge deck paving projects where equipment used to perform full depth removal of existing surfacing from specific Grade Controlled bridges is restricted to exclude rotary milling/planing equipment. Bridges in this category are generally identified in the Bridge Condition Report (BCR) prepared for the project by the Bridge Asset Management unit of the Bridge and Structures Office and provided to the Region Design PE Offices as part of the site data at the beginning of the project design phase. The fill-in specifies the Bridge Number(s) of the bridges affected by these restrictions.
(1 fill-in)

6-08.3(5).OPT2.FB6 (Rotary milling/planing equipment restricted to upper layer of existing surfacing)
(January 2, 2018)
Use in bridge deck paving projects where equipment used to perform full depth removal of existing surfacing from specific Grade Controlled bridges is restricted to allow rotary milling/planing equipment for the upper layer 0.10-feet above the bridge deck. Existing surfacing thicknesses at these bridges shall be 0.20-feet minimum. The fill-in specifies the Bridge Number(s) of the bridges affected by these restrictions.
(1 fill-in)

**6-09.GR6 Modified Concrete Overlays**

**6-09.2.GR6 Materials**

6-09.2.INST1.GR6 (Section 6-09.2 is supplemented with the following)
Must use once preceding any of the following:

6-09.2.OPT8.BSP.GB6 (Materials For Polyester Concrete)
(******)
Use in projects where polyester concrete is required. Include with **6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6 and 6-09.5.OPT9.BSP.GB6.**

**6-09.3.GR6 Construction Requirements**

6-09.3(1).GR6 **Equipment**

6-09.3(1).INST1.GR6 (Section 6-09.3(1) is supplemented with the following)
Must use once preceding any of the following:

6-09.3(1).OPT1.BSP.GB6 (Mobile Mixer for Polyester Concrete)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6 and 6-09.5.OPT9.BSP.GB6.**

**6-09.3(2).GR6 Submittals**

6-09.3(2).INST1.GR6 (Section 6-09.3(2) is supplemented with the following)
Must use once preceding any of the following:

6-09.3(2).OPT1.BSP.GB6 (Submittals for Polyester Concrete)
(******)

Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

**6-09.3(3).GR6 Concrete Overlay Mixes**

6-09.3(3).INST1.GR6 (Section 6-09.3(3) is supplemented with the following)
Must use once preceding any of the following:

6-09.3(3).OPT1.GB6 (FMC, LMC, and MMC)
(January 7, 2002)
Use in modified concrete overlay projects where all three concrete overlay mixes are allowed. Include with either **6-09.3(5).OPT2.GB6 or 6-09.3(5).OPT1.GB6**.

6-09.3(3).OPT2.GB6 (FMC or LMC Only)
(January 7, 2002)
Use in modified concrete overlay projects where only fly ash modified concrete or latex modified concrete overlay mixes are allowed. Include with **either 6-09.3(5).OPT2.GB6 or 6-09.3(5).OPT1.GB6**.

6-09.3(3).OPT3.GB6 (LMC Only)
(January 7, 2002)
Use in modified concrete overlay projects where only latex modified concrete overlay mixes are allowed. Include with **either 6-09.3(5).OPT2.GB6 or 6-09.3(5).OPT1.GB6**.

6-09.3(3).OPT9.BSP.GB6 (Polyester Concrete)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6,**

**6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

6-09.3(3).OPT10.BSP.GB6 (Deck Repair Concrete for Polyester Concrete Overlays)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

**6-09.3(4).GR6 Storing and Handling**

6-09.3(4).INST1.GR6 (Section 6-09.3(4) is supplemented with the following)
Must use once preceding any of the following:

6-09.3(4).OPT1.BSP.GB6 (Storing and Handling of Polyester Concrete Materials)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

**6-09.3(5).GR6 Scarifying Concrete Surface**

6-09.3(5).INST1.GR6 (Section 6-09.3(5) is supplemented with the following)
Must use once preceding any of the following:

6-09.3(5).OPT1.GB6 (Rotary Mill, Hydro-Demolisher, or Shot

Blaster)
(January 7, 2002)
Include in modified concrete overlay projects where all three types of scarifying machines are allowed. Include with ***either 6-09.3(3).OPT1.GB6, 6-09.3(3).OPT2.GB6, or 6-09.3(3).OPT3.GB6***.

6-09.3(5).OPT2.GB6 (Hydro-Demolisher or Shot Blaster Only)
(January 7, 2002)
Include in modified concrete overlay projects where only hydro-demolisher or shot blaster scarifying machines are allowed. Include with ***either 6-09.3(3).OPT1.GB6, 6-09.3(3).OPT2.GB6, or 6-09.3(3).OPT3.GB6***.

6-09.3(5).OPT7.GB6 (Hydro-Demolisher Only)
(April 6, 2015)
Use in modified concrete overlay projects where only hydro-demolisher scarifying machines are allowed.

6-09.3(5).OPT8.BSP.GB6 (Shot Blaster Only)
(******)
Use in modified concrete overlay projects where only shot blaster scarifying machines are allowed. Required for all polyester concrete overlay projects.

6-09.3(5).OPT9.BSP.GB6 (Scarification Depth for Polyester Concrete Overlay)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

6-09.3(5).OPT10.BSP.GB6 (Epoxy-coated St. Reinf. Bars for Bridge Deck Repair)
(******)
Use in projects where epoxy-coated steel reinforcing bars are required for bridge deck repair. Required for all polyester concrete overlay projects.

**6-09.3(6).GR6 Further Deck Preparation**

**6-09.3(6)B.GR6 Deck Repair Preparation**

6-09.3(6)B.INST1.GR6 (Section 6-09.3(6)B is supplemented with the following)
Must use once preceding any of the following:

6-09.3(6)B.OPT1.GB6 (Forms For Full Depth Deck Repair)
(April 6, 2015)
Use in modified concrete overlay projects where the anticipated depth required for bridge deck repair following scarification of concrete surface may be full depth of the bridge deck. Include with ***6-09.5.OPT11.GB6.***

**6-09.3(6)C.GR6 Placing Deck Repair Concrete**

6-09.3(6)C.INST1.GR6 (Supplemental Instructions)
Must use once preceding any of the following:

6-09.3(6)C.OPT2.BSP.GB6 (Placing Patching Concrete For Polyester Concrete Overlay)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

**6-09.3(8).GR6 Quality Assurance**

6-09.3(8).INST1.GR6 (Section 6-09.3(8) is supplemented with the following)
Must use once preceding any of the following:

6-09.3(8).OPT3.BSP.GB6 (Quality Assurance For Polyester Concrete Overlay)

(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

6-09.3(8).OPT4.BSP.GB6 (Polyester Concrete Trial Overlay)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

**6-09.3(9).GR6 Mixing Concrete for Concrete Overlay**

6-09.3(9).INST1.GR6 (Section 6-09.3(9) is supplemented with the following)
Must use once preceding any of the following:

6-09.3(9).OPT2.BSP.GB6 (Mixing Polyester Concrete)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

**6-09.3(10).GR6 Overlay Profile and Screed Rails**

6-09.3(10).INST1.GR6 (Section 6-09.3(10) is supplemented with the following)
Must use once preceding any of the following:

6-09.3(10).OPT1.BSP.GB6 (Polyester Concrete Overlay Thickness)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

**6-09.3(11).GR6 Placing Concrete Overlay**

6-09.3(11).INST1.GR6 (Section 6-09.3(11) is supplemented with the following)
Must use once preceding any of the following:

6-09.3(11).OPT2.BSP.GB6 (Placing Polyester Concrete Overlay)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

**6-09.3(12).GR6 Finishing Concrete Overlay**

6-09.3(12).INST1.GR6 (Section 6-09.3(12) is supplemented with the following)
Must use once preceding any of the following:

6-09.3(12).OPT2.BSP.GB6 (Finishing Polyester Concrete Overlay)
(******)

Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

**6-09.3(13).GR6 Curing Concrete Overlay**

6-09.3(13).INST1.GR6 (Section 6-09.3(13) is supplemented with the following)
Must use once preceding any of the following:

6-09.3(13).OPT2.BSP.GB6 (Curing Polyester Concrete)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

**6-09.3(14).GR6 Checking For Bond**

6-09.3(14).INST1.GR6 (Section 6-09.3(14) is supplemented with the following)
Must use once preceding any of the following:

6-09.3(14).OPT1.BSP.GB6 (Checking Polyester Concrete For Bond)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-**

**09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6.**

**6-09.4.GR6 Measurement**

6-09.4.INST1.GR6 (Section 6-09.4 is supplemented with the following)
Must use once preceding any of the following:

6-09.4.OPT2.BSP.GB6 (Polyester Concrete Overlay)
(******)
Use in projects where polyester concrete is required. Include with **6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.5.OPT7.BSP.GB6, 6-09.5.OPT8.BSP.GB6, and 6-09.5.OPT9.BSP.GB6**.

**6-09.5.GR6 Payment**

6-09.5.INST2.GR6 (Section 6-09.5 is supplemented with the following)
Must use once preceding any of the following:

6-09.5.OPT7.BSP.GB6 (Polyester Concrete Trial Overlay)
(******)
Use in projects where polyester concrete is required. Include with ***6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT8.BSP.GB6,*** *and* ***6-09.5.OPT9.BSP.GB6***.

6-09.5.OPT8.BSP.GB6 (Force Account Grinding Polyester Conc. Overlay)
(******)
Use in projects where polyester concrete is required. Include with ***6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6*** *and* ***6-09.5.OPT9.BSP.GB6***.

6-09.5.OPT9.BSP.GB6 (Polyester Concrete Overlay)
(******)
Use in projects where polyester concrete is required. Include with ***6-09.2.OPT8.BSP.GB6, 6-09.3(1).OPT1.BSP.GB6, 6-09.3(2).OPT1.BSP.GB6, 6-09.3(3).OPT9.BSP.GB6, 6-09.3(3).OPT10.BSP.GB6, 6-09.3(4).OPT1.BSP.GB6, 6-09.3(5).OPT8.BSP.GB6, 6-09.3(5).OPT9.BSP.GB6, 6-09.3(5).OPT10.BSP.GB6, 6-09.3(6)C.OPT2.BSP.GB6, 6-09.3(8).OPT3.BSP.GB6, 6-09.3(8).OPT4.BSP.GB6, 6-09.3(9).OPT2.BSP.GB6, 6-09.3(10).OPT1.BSP.GB6, 6-09.3(11).OPT2.BSP.GB6, 6-09.3(12).OPT2.BSP.GB6, 6-09.3(13).OPT2.BSP.GB6, 6-09.3(14).OPT1.BSP.GB6, 6-09.4.OPT2.BSP.GB6, 6-09.5.OPT7.BSP.GB6,*** *and* ***6-09.5.OPT8.BSP.GB6***.

6-09.5.OPT11.GB6 (Forms For Full Depth Deck Repair)

(April 6, 2015)
Use in projects where the anticipated depth required for bridge deck repair following scarification of concrete surface may be full depth of the bridge deck. Include with ***6-09.3(6)B.OPT1.GB6***.

**6-10.GR6 Concrete Barrier**

**6-10.3.GR6 Construction Requirements**

**6-10.3(5).GR6 Temporary Barrier**

6-10.3(5).INST1.GR6 (The first paragraph of Section 6-10.3(5) is revised to read)
Must use once preceding any of the following:

6-10.3(5).OPT1.GR6 (Type F Temporary Barrier)
(February 3, 2020)
Use in projects that have less than 1,000 linear feet of temporary barrier.

**6-10.3(6).GR6 Placing Concrete Barrier**

6-10.3(6).INST1.GR6 (Section 6-10.3(6) is supplemented with the following)
Must use once preceding any of the following:

6-10.3(6).OPT1.GR6 (Use Permanent Barrier as Temporary)
(March 13, 1995)
Use in projects when permanent barrier may be used as temporary barrier.

**6-10.5.GR6 Payment**

6-10.5.INST1.GR6 (Section 6-10.5 is supplemented with the following)
Must use once preceding any of the following:

6-10.5.OPT1.GR6 (Temporary barrier delineators)
(August 1, 2016)
Use in projects that require temporary barrier to be placed adjacent to a travelled lane.

6-10.5.OPT2.FB6 (Bridge Concrete Barrier)
(March 6, 2000)
Use in projects with concrete barrier on bridges only where the barrier is included as part of a separate bid item such as “Superstructure - ___”, or “Roadway Deck - ___”. The first fill-in specifies the barrier type (traffic barrier, traffic-pedestrian barrier, pedestrian barrier, etc.). The second fill-in specifies the bid item name.
(2 fill-ins)

**6-12.GR6 Noise Barrier Walls**

**6-12.2.GR6 Materials**

6-12.2.INST1.GR6 (Section 6-12.2 is supplemented with the following)
Must use once preceding any of the following:

6-12.2.OPT1.GB6 (Precast Concrete Noise Barrier Walls)
(September 8, 2020)
Use in projects with noise barrier walls of precast concrete panels. Include with ***6-12.3(6).OPT1.FB6 and all other applicable noise barrier wall GSP's***.

6-12.2.OPT2.FB6 (Masonry Noise Barrier Walls)
(September 8, 2020)
Use in projects with noise barrier walls of masonry block panels. The fill-in describes the surface texture and color requirements for the field, cap, accent, and other CMU blocks used for the masonry wall. Include with ***6-12.3(7).OPT1.GB6 and all other applicable noise barrier wall GSP's***.
(1 fill-in)

**6-12.3.GR6 Construction Requirements**

**6-12.3(1).GR6 Submittals**

6-12.3(1).INST1.GR6 (Section 6-12.3(1) is supplemented with the following)
Must use once preceding any of the following:

6-12.3(1).OPT1.GB6 (Noise Barrier Wall Existing Groundline Field Survey)
(August 3, 2015)
Use in noise barrier wall projects where the Contractor is required to perform and submit a field survey of the existing noise barrier wall alignment. Include with ***1-05.4.OPT1.GR1, 6-12.5.OPT1.GB6, and all other applicable noise barrier wall GSP's***.

**6-12.3(6).GR6 Precast Concrete Panel Fabrication and Erection**

6-12.3(6).INST1.GR6 (Section 6-12.3(6) is supplemented with the following)
Must use once preceding any of the following:

6-12.3(6).OPT1.FB6 (Precast Concrete Panel Surface Finish Requirements)
(April 5, 2004)
Use in projects with noise barrier walls of precast concrete panels. The fill-ins specify the type or name of the formed finish on the traffic side and on the residential side of the precast concrete panels. Include with ***6-12.2.OPT1.GB6 and all other applicable noise barrier wall GSP's***.

(2 fill-ins)

**6-12.3(7).GR6 Masonry Wall Construction**

6-12.3(7).INST1.GR6 (Section 6-12.3(7) is supplemented with the following)
Must use once preceding any of the following:

6-12.3(7).OPT1.GB6 (Masonry Noise Barrier Wall Construction Requirements)
(August 3, 2015)
Use in projects with noise barrier walls of masonry block panels. Include with ***6-12.2.OPT2.FB6 and all other applicable noise barrier wall GSP's.***

**6-12.5.GR6 Payment**

6-12.5.INST1.GR6 (Section 6-12.5 is supplemented with the following)
Must use once preceding any of the following:

6-12.5.OPT1.GB6 (Payment for Noise Barrier Wall Groundline Field Survey)
(April 5, 2004)
Use in noise barrier wall projects where the Contractor is required to perform and submit a field survey of the existing noise barrier wall alignment. Include with ***1-05.4.OPT1.GR1, 6-12.3(1).OPT1.GB6, and all other applicable noise barrier wall GSP's***.

**6-13.GR6 Structural Earth Walls**

**6-13.2.GR6 Materials**

6-13.2.INST1.GR6 (Section 6-13.2 is supplemented with the following)
Must use once preceding any of the following:

6-13.2.OPT1.GB6 (Welded Wire Faced Structural Earth Wall Materials)
(October 29, 2020)
Use in projects with structural earth walls where welded wire faced walls are an acceptable alternative. Include with ***6-13.3.OPT1.GB6 and 6-13.3(2).OPT1.FB6***.

6-13.2.OPT2.GB6 (Precast Concrete Panel Faced Structural Earth Wall Materials)
(January 10, 2022)
Use in projects with structural earth walls where precast concrete panel faced walls are an acceptable alternative. Include with ***6-13.3.OPT2.GB6, 6-13.3(2).OPT1.FB6, 6-13.3(4).OPT1.GB6***.

6-13.2.OPT2(A).GB6 (Lock + Load Retaining Wall System Wall Materials)
(August 3, 2015)

Use in projects with structural earth walls only when the following conditions apply:

1. Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls are included in the project as acceptable alternatives.
2. Lock + Load retaining wall system shall be constructed in areas where the wall will be constructed above the water table.

Include with ***6-13.2.OPT2.GB6, 6-13.3.OPT2.GB6, 6-13.3(2).OPT1.FB6, 6-13.3.OPT2(A).GB6, 6-13.3(4).OPT1.GB6, 6-13.3(4).OPT1(A).GB6, and 6-13.3(7).OPT1.GB6***.

6-13.2.OPT3.GB6 (Concrete Block Faced Structural Earth Wall Materials)
(January 2, 2018)
Use in projects with structural earth walls where concrete block faced walls are an acceptable alternative. Include with ***6-13.3.OPT3.GB6, 6-13.3(2).OPT1.FB6, and 6-13.3(5).OPT2.GB6***.

**6-13.3.GR6 Construction Requirements**

6-13.3.INST1.GR6 (Section 6-13.3 is supplemented with the following)
Must use once preceding any of the following:

6-13.3.OPT1.GB6 (Welded Wire Faced Structural Earth Wall)
(April 4, 2011)
Use in projects with structural earth walls where welded wire faced walls are an acceptable alternative. Include with ***6-13.2.OPT1.GB6 and 6-13.3(2).OPT1.FB6***.

6-13.3.OPT2.GB6 (Precast Concrete Panel Faced Structural Earth Wall)
(January 10, 2022)
Use in projects with structural earth walls where precast concrete panel faced walls are an acceptable alternative. Include with ***6-13.2.OPT2.GB6, 6-13.3(2).OPT1.FB6, and 6-13.3(4).OPT1.GB6.***

6-13.3.OPT2(A).GB6 (Lock + Load Retaining Wall System Walls)
(August 3, 2015)
Use in projects with structural earth walls only when the following conditions apply:

1. Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls are included in the project as acceptable alternatives.
2. Lock + Load retaining wall system shall be constructed in areas where the wall will be constructed above the water table.

Include with ***6-13.2.OPT2.GB6, 6-13.2.OPT2(A).GB6, 6-13.3.OPT2.GB6, 6-13.3(2).OPT1.FB6, 6-13.3(4).OPT1.GB6, 6-13.3(4).OPT1(A).GB6, and 6-13.3(7).OPT1.GB6***.

6-13.3.OPT3.GB6 (Concrete Block Faced Structural Earth Wall)
(January 2, 2018)
Use in projects with structural earth walls where concrete block faced walls are an acceptable alternative. Include with ***6-13.2.OPT3.GB6, 6-13.3(2).OPT1.FB6, and 6-13.3(5).OPT2.GB6***.

**6-13.3(2).GR6 Submittals**

6-13.3(2).INST1.GR6 (Section 6-13.3(2) is supplemented with the following)
Must use once preceding any of the following:

6-13.3(2).OPT1.FB6 (Structural Earth Wall Geotechnical Design Parameters)
(January 3, 2011)
Use in projects with structural earth walls. The first fill-in identifies the wall by name or number, and the remaining fill-ins specify the values for various geotechnical design parameters as specified in the geotechnical report prepared for the project. The table may be repeated as necessary for additional walls with differing geotechnical design parameters.
(13 fill-ins)

**6-13.3(4).GR6 Precast Concrete Facing Panel and Concrete Block Fabrication**

6-13.3(4).INST1.GR6 (Section 6-13.3(4) is supplemented with the following)
Must use once preceding any of the following:

6-13.3(4).OPT1.GB6 (Specific Fabrication Requirements for Precast Concrete Panel Faced Structural Earth Walls)
(April 3, 2017)
Use in projects with structural earth walls where precast concrete panel faced walls are an acceptable alternative. Include with ***6-13.2.OPT2.GB6, 6-13.3.OPT2.GB6, 6-13.3(2).OPT1.FB6, and 6-13.3(5).OPT1.GB6***.

6-13.3(4).OPT1(A).GB6 (Lock + Load Retaining Wall System Walls)
(August 3, 2015)
Use in projects with structural earth walls only when the following conditions apply:

1. Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls

are included in the project as acceptable alternatives.

2. Lock + Load retaining wall system shall be constructed in areas where the wall will be constructed above the water table.

Include with ***6-13.2.OPT2.GB6, 6-13.2.OPT2(A).GB6, 6-13.3.OPT2.GB6, 6-13.3.OPT2(A).GB6, 6-13.3(2).OPT1.FB6, 6-13.3(4).OPT1.GB6, and 6-13.3(7).OPT1.GB6***.

**6-13.3(5).GR6 Precast Concrete Facing Panel and Concrete** Block Erection

6-13.3(5).INST1.GR6 (Section 6-13.3(5) is supplemented with the following)
Must use once preceding any of the following:

6-13.3(5).OPT2.GB6 (Specific Erection Requirements for Precast Concrete Block Faced Structural Earth Walls)
(April 2, 2012)
Use in projects with structural earth walls where concrete block faced walls are an acceptable alternative. Include with ***6-13.2.OPT3.GB6 6-13.3.OPT3.GB6, and 6-13.3(2).OPT1.FB6***.

**6-13.3(7).GR6 Backfill**

6-13.3(7).INST1.GR6 (Section 6-13.3(7) is supplemented with the following)
Must use once preceding any of the following:

6-13.3(7).OPT1.GB6 (Specific Backfill Requirements for Precast Concrete Panel Faced Structural Earth Walls)
(August 3, 2015)
Use in projects with structural earth walls only when the following conditions apply:

1. Both precast concrete panel faced structural earth walls AND precast concrete block faced structural earth walls are included in the project as acceptable alternatives.
2. Lock + Load retaining wall system shall be constructed in areas where the wall will be constructed above the water table.

Include with ***6-13.2.OPT2.GB6, 6-13.2.OPT2(A).GB6, 6-13.3.OPT2.GB6, 6-13.3.OPT2(A).GB6, 6-13.3(2).OPT1.FB6, 6-13.3(4).OPT1.GB6, and 6-13.3(4).OPT1(A).GB6***

## 6-14.GR6 Geosynthetic Retaining Walls

### 6-14.2.GR6 Materials

6-14.2(9-33.2(2)).GR6 (Geosynthetic Properties For Retaining Walls

and Reinforced Slopes
(Section 9-33.2(2) is supplemented with the following)
Must use once preceding any of the following:

6-14.2(9-33.2(2)).OPT1.FB6 (Geosynthetic Properties For Temporary Geosynthetic Retaining Walls)
(August 7, 2006)
Use in projects with temporary geosynthetic retaining walls. The first fill-in identifies the wall location. The second fill-in specifies the reinforcement layer vertical spacing. The third fill-in specifies the dimension from the top of wall to the reinforcement layer. The fourth fill-in specifies the geosynthetic tensile strength.
(4 fill-ins)

## 6-15.GR6 Soil Nail Walls

### 6-15.2.GR6 Materials

6-15.2.INST1.GR6 (Section 6-15.2 is supplemented with the following)
Must use once preceding any of the following:

6-15.2.OPT1.GB6 (Permanent Soil Nail Materials and Components)
(August 3, 2015)
Use in projects with soil nail retaining walls. Include with ***6-18.2.OPT1.GB6 and 6-15.3(8)A.OPT1.FB6***.

### 6-15.3.GR6 Construction Requirements

#### 6-15.3(8).GR6 Soil Nail Testing And Acceptance

##### 6-15.3(8)A.GR6 Verification Testing

6-15.3(8)A.INST1.GR6 (Section 6-15.3(8)A is supplemented with the following)
Must use once preceding any of the following:

6-15.3(8)A.OPT1.FB6 (Soil Nail Verification Test Locations)
(April 5, 2004)
Use in projects with soil nail retaining walls. The fill-ins specify the soil nail verification test locations and the number of successful tests required at each location. Include with ***6-15.2.OPT1.GB6 and 6-18.2.OPT1.GB6***.
(3 fill-ins)

## 6-17.GR6 Permanent Ground Anchors

### 6-17.1.GR6 Description

6-17.1.INST1.GR6 (Section 6-17.1 is supplemented with the following)
Must use once preceding any of the following:

6-17.1.OPT1.GB6 (Rock Bolts and Rock Dowels)
(January 7, 2013)
Use in projects with rock bolts and/or rock dowels. Include with **6-17.2.OPT2.GB6, 6-17.3.OPT1.GB6, 6-17.3(8).OPT1.GB6, 6-17.4.OPT1.GB6 and 6-17.5.OPT1.GB6.**

**6-17.2.GR6 Materials**

6-17.2.INST1.GR6 (Section 6-17.2 is supplemented with the following)
Must use once preceding any of the following:

6-17.2.OPT1.GB6 (Permanent Ground Anchor Materials and Components)
(September 8, 2020)
Use in projects with walls using permanent ground anchors.

6-17.2.OPT2.GB6 (Rock Bolt and Rock Dowel Materials)
(January 7, 2013)
Use in projects with rock bolts and/or rock dowels. Include with **6-17.1.OPT1.GB6, 6-17.3.OPT1.GB6, 6-17.3(8).OPT1.GB6, 6-17.4.OPT1.GB6 and 6-17.5.OPT1.GB6.**

**6-17.3.GR6 Construction Requirements**

6-17.3.INST1.GR6 (Section 6-17.3 is supplemented with the following)
Must use once preceding any of the following:

6-17.3.OPT1.GB6 (Rock Bolt and Rock Dowel Construction Requirements)
(September 8, 2020)
Use in projects with rock bolts and/or rock dowels. Include with **6-17.1.OPT1.GB6, 6-17.2.OPT2.GB6, 6-17.3(8).OPT1.GB6, 6-17.4.OPT1.GB6 and 6-17.5.OPT1.GB6.**

**6-17.3(8).GR6 Testing And Stressing**

6-17.3(8).INST1.GR6 (Section 6-17.3(8) is supplemented with the following)
Must use once preceding any of the following:

6-17.3(8).OPT1.GB6 Rock Bolt and Rock Dowel Testing
(January 7, 2013)
Use in projects with rock bolts and/or rock dowels. Include with **6-17.1.OPT1.GB6, 6-17.2.OPT2.GB6, 6-17.3.OPT1.GB6, 6-17.4.OPT1.GB6 and 6-*17.5.OPT1.GB6.***

**6-17.3(8)A.GR6 Verification Testing**

6-17.3(8)A.INST1.GR6 (Section 6-17.3(8)A is supplemented with the

following)
Must use once preceding any of the following:

6-17.3(8)A.OPT1.GB6 (August 3, 2015)
Use in projects with permanent ground anchors where the soil conditions require a verification testing program for the permanent ground anchors as recommended by the WSDOT Materials Laboratory Geotechnical Services Division. Include with ***6-17.3(8)B.OPT1.GB6 and 6-17.3(8)C.OPT1.GB6.***

**6-17.3(8)B.GR6 Performance Testing**

6-17.3(8)B.INST1.GR6 (The performance test schedule following the second paragraph of Section 6-17.3(8)B is revised to read)
Must use once preceding any of the following:

6-17.3(8)B.OPT1.GB6 (January 3, 2011)
Use in projects with permanent ground anchors where the soil conditions require a verification testing program for the permanent ground anchors, as recommended by the WSDOT Materials Laboratory Geotechnical Services Division. Include with ***6-17.3(8)A.OPT1.GB6 and 6-17.3(8)C.OPT1.GB6***.

**6-17.3(8)C.GR6 Proof Testing**

6-17.3(8)C.INST1.GR6 (The proof test schedule following the first paragraph of Section 6-17.3(8)C is revised to read)
Must use once preceding any of the following:

6-17.3(8)C.OPT1.GB6 (January 3, 2011)
Use in projects with permanent ground anchors where the soil conditions require a verification testing program for the permanent ground anchors, as recommended by the WSDOT Materials Laboratory Geotechnical Services Division. Include with ***6-17.3(8)A.OPT1.GB6 and 6-17.3(8)B.OPT1.GB6***.

**6-17.4.GR6 Measurement**

6-17.4.INST1.GR6 (Section 6-17.4 is supplemented with the following)
Must use once preceding any of the following:

6-17.4.OPT1.GB6 (Rock Bolts and Rock Dowels)
(January 4, 2010)
Use in projects with rock bolts and/or rock dowels. Include with **6-17.1.OPT1.GB6, 6-17.2.OPT2.GB6, 6-17.3.OPT1.GB6, 6-17.3(8).OPT1.GB6, and 6-17.5.OPT1.GB6.**

**6-17.5.GR6 Payment**

6-17.5.INST1.GR6 (Section 6-17.5 is supplemented with the following)
Must use once preceding any of the following:

6-17.5.OPT1.GB6 (Rock Bolts and Rock Dowels)
(January 4, 2010)
Use in projects with rock bolts and/or rock dowels. Include with **6-17.1.OPT1.GB6, 6-17.2.OPT2.GB6, 6-17.3.OPT1.GB6, 6-17.3(8).OPT1.GB6, and 6-17.4.OPT1.GB6.**

## 6-18.GR6 Shotcrete Facing

### 6-18.2.GR6 Materials

6-18.2.INST1.GR6 (Section 6-18.2 is supplemented with the following)
Must use once preceding any of the following:

6-18.2.OPT1.GB6 (Shotcrete Facing)
(August 1, 2005)
Use in projects with shotcrete facing. Include with ***6-15.2.OPT1.GB6 and 6-15.3(8)A.OPT1.FB6*** for all soil nail retaining wall projects. Include with ***6-18.2.OPT2.GB6, 6-18.2.OPT3.GB6, 6-18.3.OPT1.GB6, 6-18.4.OPT1.GB6 and 6-18.5.OPT1.GB6*** for all projects with shotcrete facing for rock/soil slope stabilization.

6-18.2.OPT2.GB6 (Coloration for Shotcrete Facing Finishing Alternative C)
(August 3, 2015)
Use in projects with shotcrete facing where tinting of the finish coating of shotcrete is required. Include with ***6-15.2.OPT1.GB6, 6-15.3(8)A.OPT1.FB6, and 6-18.2.OPT1.GB6*** for all soil nail retaining wall projects with such requirements. Include with ***6-18.2.OPT1.GB6, 6-18.2.OPT3.GB6, 6-18.3.OPT1.GB6, 6-18.4.OPT1.GB6 and 6-18.5.OPT1.GB6*** for all projects with shotcrete facing for rock/soil slope stabilization.

6-18.2.OPT3.GB6 (Fiber Reinforcement for Shotcrete Facing)
(August 3, 2015)
Use in projects with shotcrete facing where fiber reinforcement in the shotcrete is specified. Include with ***6-18.2.OPT1.GB6***. Include with ***6-18.2.OPT2.GB6, 6-18.3.OPT1.GB6, 6-18.4.OPT1.GB6 and 6-18.5.OPT1.GB6*** for all projects with shotcrete facing for rock/soil slope stabilization.

### 6-18.3.GR6 Construction Requirements

6-18.3.INST1.GR6 (Section 6-18.3 is supplemented with the following)
Must use once preceding any of the following:

6-18.3.OPT1.GB6 (Shotcrete Facing For Rock/Soil Slope Stabilization)
(August 3, 2015)
Use in projects with shotcrete facing for rock/soil slope stabilization. Include with ***6-18.2.OPT1.GB6, 6-18.2.OPT2.GB6, 6-18.2.OPT3.GB6, 6-18.4.OPT1.GB6 and 6-18.5.OPT1.GB6***.

**6-18.4.GR6 Measurement**

6-18.4.INST1.GR6 (Section 6-18.4 is supplemented with the following)
Must use once preceding any of the following:

6-18.4.OPT1.GB6 (Shotcrete Facing For Rock/Soil Slope Stabilization)
(April 5, 2010)
Use in projects with shotcrete facing for rock/soil slope stabilization. Include with ***6-18.2.OPT1.GB6, 6-18.2.OPT2.GB6, 6-18.2.OPT3.GB6, 6-18.3.OPT1.GB6 and 6-18.5.OPT1.GB6***.

**6-18.5.GR6 Payment**

6-18.5.INST1.GR6 (Section 6-18.5 is supplemented with the following)
Must use once preceding any of the following:

6-18.5.OPT1.GB6 (Shotcrete Facing For Rock/Soil Slope Stabilization)
(April 5, 2010)
Use in projects with shotcrete facing for rock/soil slope stabilization. Include with ***6-18.2.OPT1.GB6, 6-18.2.OPT2.GB6, 6-18.2.OPT3.GB6, 6-18.3.OPT1.GB6 and 6-18.4.OPT1.GB6***.

**6-19.GR6 Shafts**

**6-19.2.GR6 Materials**

**6-19.2(9-36.2(2)).GR6 Synthetic Slurry**
(Section 9-36.2(2) is supplemented with the following)
Must use once preceding any of the following:

6-19.2(9-36.2(2).OPT1.GB6 (Fresh Water for Synthetic Slurry)
(January 2, 2012)
Use in projects with shafts constructed in salt water when the geotechnical report specifies that the use of fresh water for synthetic slurry is feasible and when the Contracting Agency restricts the water for synthetic slurry to fresh water only. Include with **6-19.4.OPT3.GB6** and **6-19.5.OPT2.GB6.**

6-19.2(9-36.4).GR6 (Access Tubes and Caps)
(The first paragraph of Section 9-36.4 is revised to read)
Must use once preceding any of the following:

6-19.2(9-36.4).OPT1.GR6 (Shaft Related Materials)
(October 3, 2022)
Use in projects that contain shaft construction and crosshole sonic log testing is required.

**6-19.3.GR6 Construction Requirements**

**6-19.3(3).GR6 Shaft Excavation**

6-19.3(3).INST1.GR6 (Section 6-19.3(3) is supplemented with the following)
Must use once preceding any of the following:

6-19.3(3).OPT1.GB6 (Variations In Bearing Layer Elevations)
(January 2, 2012)
Use in projects where shaft embedment to a minimum penetration into a bearing layer is required, and where the bearing layer elevation cannot be accurately specified with certainty. Include with **6-19.3(5).OPT1.GB6.**

**6-19.3(3)B.GR6 Temporary and Permanent Shaft Casing**

6-19.3(3)B.INST1.GR6 (Section 6-19.3(3)B is supplemented with the following)
Must use once preceding any of the following:

6-19.3(3)B.OPT2.GB6 (Rotating/Oscillating Method Required)
(January 2, 2012)
Use in projects where the geotechnical report for the project recommends, and the ADSC/WSDOT Shaft Task Force concurs, that site conditions dictate the use of the rotating/oscillating method for shaft excavation.

**6-19.3(3)B4.GR6 Temporary Telescoping Shaft Casing**

6-19.3(3)B4.INST1.GR6 (The second paragraph of Section 6-19.3(3)B4 is revised to read as follows)
Must use once preceding any of the following:

6-19.3(3)B4.OPT1.GB6 (Temp. Telescoping Casing Not Allowed At End Piers)
(January 2, 2012)
Use in projects where design conditions exist where the option of temporary telescoping casing for shafts at bridge end piers is not appropriate for the overall design behavior of the overall bridge.

**6-19.3(3)I.GR6 Required Use of Slurry in Shaft Excavation**

6-19.3(3)I.INST1.GR6 (Section 6-19.3(3)I is supplemented with the following)
Must use once preceding any of the following:

6-19.3(3)I.OPT1.GB6 (Exception For Casing Sealed Against Influx Of Water Into Excavation)
(August 3, 2015)
Use in projects where the geotechnical conditions, as documented in the geotechnical report for the project, allow the possibility of performing shaft excavation in a cased hole beneath the water table level without the need for slurry to ensure the stability of the bottom of the excavation.

**6-19.3(4).GR6 Slurry Installation Requirements**

**6-19.3(4)A.GR6 Slurry Technical Assistance**

6-19.3(4)A.INST1.GR6 (Section 6-19.3(4)A is supplemented with the following)
Must use once preceding any of the following:

6-19.3(4)A.OPT1.FB6 (Slurry Manufacturer's Representative's Presence Required At Specific Shaft Sites)
(January 2, 2012)
Use in projects where the geotechnical conditions vary enough from one shaft site to another to affect how the slurry is used at each shaft site. The fill-in identifies the specific shaft locations where the presence of the slurry manufacturer's representative is required.
(1 fill-in)

**6-19.3(5).GR6 Assembly and Placement of Reinforcing Steel**

6-19.3(5).INST1.GR6 (Section 6-19.3(5) is supplemented with the following)
Must use once preceding any of the following:

6-19.3(5).OPT1.GB6 (Variations In Bearing Layer Elevations)
(August 1, 2016)
Use in projects where shaft embedment to a minimum penetration into a bearing layer is required, and where the bearing layer elevation cannot be accurately specified with certainty. Include with **6-19.3(3).OPT1.GB6.**

**6-19.3(6).GR6 Contractor Furnished Accessories for Nondestructive QA Testing**

**6-19.3(6)E.GR6 Thermal Wire and Thermal Access Points (TAPs)**

6-19.3(6)E.INST1.GR6 (Section 6-19.3(6)E is supplemented with the following)
Must use once preceding any of the following:

6-19.3(6)E.OPT1.GB6 (Thermal Wire and Associated Couplers)
(January 2, 2018)

Use in projects that include shaft construction requiring nondestructive testing. This includes all bridge foundation shafts, but may or may not include other shafts such as sign bridges, cantilever sign structures, signal standards, etc.

**6-19.3(7).GR6 Placing Concrete**

**6-19.3(7)D.GR6 Requirements for Placing Concrete Underwater**

6-19.3(7)D.INST1.GR6 (Section 6-19.3(7)D is supplemented with the following)
Must use once preceding any of the following:

6-19.3(7)D.OPT1.GB6 (Tremie Allowed As An Alternative To Concrete Pump)
(January 2, 2012)
Use in projects where the construction site is at a remote location where it may be difficult to make arrangements to have a concrete pump at the site.

**6-19.4.GR6 Measurement**

6-19.4.INST2.GR6 (Section 6-19.4 is supplemented with the following)
Must use once preceding any of the following:

6-19.4.OPT3.GB6 (Fresh Water For Synthetic Slurry)
(January 2, 2012)
Use in projects with shafts constructed in salt water when the geotechnical report specifies that the use of fresh water for synthetic slurry is feasible and when the Contracting Agency restricts the water for synthetic slurry to fresh water only. Include with **6-19.2(9-36.2(2)).OPT1.GB6 and 6-19.5.OPT2.GB6.**

**6-19.5.GR6 Payment**

6-19.5.INST1.GR6 (Section 6-19.5 is supplemented with the following)
Must use once preceding any of the following:

6-19.5.OPT2.GB6 (Fresh Water for Synthetic Slurry)
(January 2, 2012)
Use in projects with shafts constructed in salt water when the geotechnical report specifies that the use of fresh water for synthetic slurry is feasible and when the Contracting Agency restricts the water for synthetic slurry to fresh water only. Include with **6-19.2(9-36.2(2)).OPT1.GB6 and 6-19.4.OPT3.GB6.**

**6-20.GR6 Buried Structures**

**6-20.1.GR6 Description**

**6-20.1(1).GR6 Definitions**

6-20.1(1).INST1.GR6 (The list of types of buried structures in Section 6-20.1(1) is supplemented with the following:)
Must use once preceding any of the following:

6-20.1(1).OPT1.GB6 (January 10, 2022)
Use in all projects requiring the use of a Contractor-designed buried structure. Must be included with ***6-20.2.OPT1.GB6, 6-20.3.OPT1.GB6,*** and ***6-20.5.OPT1.GB6***.

**6-20.2.GR6 Materials**

6-20.2.INST1.GR6 (Section 6-20.2 is supplemented with the following)
Must use once preceding any of the following:

6-20.2.OPT1.GB6 (January 10, 2022)
Use in all projects requiring the use of a Contractor-designed buried structure. Must be included with ***6-20.1(1).OPT1.GB6, 6-20.3.OPT1.GB6,*** and ***6-20.5.OPT1.GB6***.

**6-20.3.GR6 Construction Requirements**

6-20.3.INST1.GR6 (Section 6-20.3 is supplemented with the following)
Must use once preceding any of the following:

6-20.3.OPT1.GB6 (January 10, 2022)
Use in all projects requiring the use of a Contractor-designed buried structure. Must be included with ***6-20.1(1).OPT1.GB6, 6-20.2.OPT1.GB6,*** and ***6-20.5.OPT1.GB6***.

**6-20.5.GR6 Payment**

6-20.5.INST1.GR6 (Section 6-20.5 is supplemented with the following)
Must use once preceding any of the following:

6-20.5.OPT1.GB6 (January 10, 2022)
Use in all projects requiring the use of a Contractor-designed buried structure. Must be included with ***6-20.1(1).GB6, 6-20.2.OPT1.GB6,*** and ***6-20.3.OPT1.GB6***.

6-02.GR6

## Concrete Structures

6-02.2.GR6

### Materials

6-02.2.INST1.GR6

Section 6-02.2 is supplemented with the following:

6-02.2.OPT1.GR6

***(April 1, 2013)***

***Resin Bonded Anchors***

The resin bonded anchor system shall include the nut, washer, and threaded anchor rod which is installed into hardened concrete with a resin bonding material.

Resin bonding material used in overhead and horizontal application shall be specifically recommended by the resin manufacturer for those applications.

Resin bonding material used in submerged liquid environment shall be specifically recommended by the resin manufacturer for this application.

The resin bonded anchor system shall conform to the following requirements:

1. Threaded Anchor Rod and Nuts

   Threaded anchor rods shall conform to ASTM A 193 Grade B7 or ASTM A 449, except as otherwise noted, and be fully threaded. Threaded anchor rods for stainless steel resin bonded anchor systems shall conform to ASTM F 593 and shall be Type 304 unless otherwise specified.

   Nuts shall conform to ASTM A 563, Grade DH, except as otherwise noted. Nuts for stainless steel resin bonded anchor systems shall conform to ASTM F 594 and shall be Type 304 unless otherwise specified.

   Washers shall conform to ASTM F 436, and shall meet the same requirements as the supplied anchor rod, except as otherwise noted. Washers for stainless steel resin bonded anchor systems shall conform to ASTM A 240 and the geometric requirements of ASME B18.21.1 and shall be Type 304 Stainless Steel unless otherwise specified.

   Nuts and threaded anchor rods, except those manufactured of stainless steel, shall be galvanized in accordance with AASHTO M 232. Galvanized threaded anchor rods shall be tested for embrittlement after galvanizing, in accordance with Section 9-29.6(5).

   Threaded anchor rods used with resin capsules shall have the tip of the rod chiseled in accordance with the resin capsule manufacturer's recommendations. Galvanized threaded rods shall have the tip chiseled prior to galvanizing.

2. Resin Bonding Material

   Resin bonding material shall be a two component epoxy resin conforming to Type IV ASTM C 881 or be one of the following:

a. Vinyl ester resin.

b. Polyester resin.

c. Methacrylate resin.

3. Ultimate Anchor Tensile Capacity
Resin bonded anchors shall be tested in accordance with ASTM E 488 to have the following minimum ultimate tensile load capacity when installed in concrete having a maximum compressive strength of 6000 pounds per square inch (psi) at the embedment specified below:

| **Anchor Diameter (inch)** | **Tensile Capacity (lbs.)** | **Embedment (inch)** |
|---|---|---|
| 3/8 | 7,800 | 3-3/8 |
| 1/2 | 12,400 | 4-1/2 |
| 5/8 | 19,000 | 5-5/8 |
| 3/4 | 27,200 | 6-3/4 |
| 7/8 | 32,000 | 7-7/8 |
| 1 | 41,000 | 9 |
| 1-1/4 | 70,000 | 11-1/4 |

The Contractor shall submit items 1 and 2 below to the Engineer for all resin bonded anchor systems. If the resin bonded anchor system and anchor diameter are not listed in the current WSDOT Qualified Products List, the Contractor shall also submit item 3 below to the Engineer.

For resin bonded anchor systems that are installed in a submerged liquid environment the Contractor shall submit items 1, 2, and 4 below. If the resin bonded anchor system and anchor diameter are not listed in the current WSDOT Qualified Products List, the Contractor shall also submit item 3 below to the Engineer.

1 The resin manufacturer's written installation procedure for the anchors.

2. The manufacturer's certificate of compliance for the threaded anchor rod certifying that the anchor rod meets these requirements.

3. Test results by an independent laboratory certifying that the threaded anchor rod system meets the ultimate anchor tensile load capacity specified in the above table. The tests shall be performed in accordance with ASTM E 488.

4. For threaded anchors intended to be installed in submerged liquid environments the Contractor shall submit tests performed by an independent laboratory within the past 24 months which certifies that anchors installed in a submerged environment meet the strength requirements specified in the above table.

6-02.2.OPT2.GB6

***(September 8, 2020)***

***Epoxy Bonding Agent For Surfaces And For Steel Reinforcing Bar Dowels***

Epoxy bonding agent for surfaces shall be Type II, as specified in Section 9-26.1. Epoxy bonding agent for steel reinforcing bar dowels shall be either Type I or Type IV, as specified in Section 9-26.1. The grade and class of epoxy bonding agent shall be as recommended by the resin manufacturer.

6-02.2.OPT4.GB6

***(August 3, 2015)***

***Epoxy Crack Sealing Materials***

Epoxy sealing paste shall be a thixotropic compound.

Epoxy injection resin shall be a moisture-insensitive, two-component material capable of restoring the structural integrity of a structure by structurally bonding cracks, delaminations and hollow planes. Resin formulations shall be hydrophilic with variable viscosity to allow full depth penetration in cracks having a width of 6 mils and greater.

Epoxy injection resin, when mixed with the hardener in accordance with the manufacturer's written instructions, shall cure to a non-shrink solid material. The material shall have a normal curing time of less than 24 hours.

Epoxy injection resin shall have the following physical properties:

| | | |
|---|---|---|
| Solids Content, by weight (minimum) | 98 | percent |
| Viscosity (maximum) at 77F (Brookfield) | 700 | cps |
| Compressive Yield Strength (minimum) | 12,000 | psi |
| Minimum Flexural Strength (ASTM D 790) | 10,000 | psi |
| Bond Strength (minimum) | 500 | psi |

The Contractor shall submit a Type 2 Working Drawing consisting of sample of the material of the epoxy sealing paste and epoxy injection resin together with sufficient directions and technical data for its use.

The Contractor shall submit a Type 1 Working Drawing consisting of the Safety Data Sheet (SDS) for each type of epoxy sealing paste and epoxy injection resin.

6-02.2.OPT26.GB6

***(April 6, 2015)***

***Rapid Cure Silicone Sealant***

Rapid cure silicone sealant shall be Dow Corning 902 RCS Joint Sealant.

The Contractor shall deliver the joint sealant to the job site in the sealant manufacturer's original sealed container. Each container shall be marked with the sealant manufacturer's name and lot or batch number. Each lot or batch shall be accompanied by the manufacturer's Safety Data Sheet (SDS), and Manufacturer’s Certificate of Compliance, identifying the lot or batch number, and certifying that the materials conform to the properties stated on the product data sheet.

The backer rod shall be closed cell expanded polyethylene foam as recommended by the sealant manufacturer. The diameter of the backer rod shall be as recommended by the sealant manufacturer for the expansion joint opening at the time of installation.

6-02.2.OPT27.GB6

***(April 6, 2015)***

***Polyester Concrete***

**Polyester Resin Binder**

The resin shall be an unsaturated isophthalic polyester-styrene co-polymer.

Prior to adding the initiator, the resin shall conform to the following requirements:

| | | |
|---|---|---|
| Viscosity: | 75 to 200 cps<br>(20 rpm at 77F, RVT No. 1 spindle) | ASTM D 2196 |
| Specific Gravity: | 1.05 to 1.10 at 77F | ASTM D 1475 |
| Styrene Content: | 45% to 50% by weight<br>of polyester styrene resin | ASTM D2369 |

The hardened resin shall conform to the following requirements:

| | | |
|---|---|---|
| Elongation: | 35% minimum<br>w/ thickness 0.25" ± 0.04" | ASTM D 638 |
| Tensile Strength: | 2,500 psi minimum<br>w/ thickness 0.25" ± 0.04" | ASTM D 638 |
| Conditioning | 18 hours/77F/50% + 5 hours/158F | ASTM D 618 |
| Silane Coupler: | 1.0% minimum (by weight of polyester-styrene resin) | |

The silane coupler shall be an organosilane ester, gammamethacryloxypropyltrimethoxysilane. The promoter/hardeners shall be compatible with suitable methyl ethyl ketone peroxide (MEKP) and cumene hydroperoxide (CHP) initiators. MEKP and CHP initiators shall be used as recommended by the manufacturer.

Polyester resin binder will be accepted based on submittal to the Engineer of a Manufacturer's Certificate of Compliance.

**High Molecular Weight Methacrylate (HMWM) Resin**

In addition to the viscosity and density properties, and the promoter/initiator system, specified in Section 6-09.2, the HMWM resin for polyester concrete shall conform to the following requirements:

| | | |
|---|---|---|
| Flash Point: | 180F minimum | ASTM D 3278 |
| Tack-Free Time: | 400 minutes maximum | California Test 551 |

Prior to adding initiator, the HMWM resin shall have a maximum volatile content of 30 percent, when tested in conformance with ASTM D 2369.

HMWM resin will be accepted based on submittal to the Engineer of a Manufacturer's Certificate of Compliance.

**Aggregate**
The aggregate shall be from a WSDOT approved pit site and shall be thoroughly washed and kiln dried.

The aggregate shall conform to Section 9-03.1(5)B for either 1/2-inch or 3/8-inch maximum nominal aggregate size.

The combined aggregate shall have a maximum of 45 percent crushed particles. Fine aggregate shall conform to Section 9-03.13.

Aggregate absorption shall not exceed 1.0 percent. The moisture content of the aggregate shall not exceed one half of the aggregate absorption at the time of mixing with the polyester resin binder. The aggregate temperature shall be between 45F and 100F at the time of mixing.

**Sand for Abrasive Finish**
The sand for abrasive finish shall conform to Section 6-09.2, and the aggregate moisture content requirements specified above.

6-02.2.OPT28.GB6
***(April 6, 2015)***
***Elastomeric Concrete***
Elastomeric concrete shall be one of the following three products:

BASF/Watson Bowman Acme Wabo Crete II

D. S. Brown Delcrete

R. J. Watson Poly-Tron

The elastomeric concrete aggregate shall be as specified, gradated, and packaged by the elastomeric concrete manufacturer.

The primer shall be as recommended by the elastomeric concrete manufacturer.

The Contractor shall deliver the elastomeric concrete components to the job site in the elastomeric concrete manufacturer's original sealed containers. Each container shall be marked with the sealant manufacturer's name and lot or batch number. Each lot or batch shall be accompanied by the manufacturer's Safety Data Sheet (SDS), and Manufacturer's Certificate of Compliance, identifying the elastomeric concrete manufacturer and the lot or batch number, and certifying that the materials conform to the properties stated in the product data sheet.

6-02.2.OPT46.GB6
***Bridge Supported Utilities***

6-02.2.OPT46(A).GB6

(June 26, 2000)

Inserts shall be of the type and model specified in the Plans. Inserts shall be galvanized in accordance with AASHTO M 111.

6-02.2.OPT46(B).GB6

(September 3, 2019)

Hanger rods, and associated nuts and washers, shall conform to Section 9-06.5(1), and shall be galvanized in accordance with ASTM F2329.

Steel bars and plates shall conform to ASTM A 36 and shall be galvanized in accordance with AASHTO M 111.

6-02.2.OPT46(C).GB6

(September 3, 2019)

Horizontal strut bolts or threaded rods, and associated nuts and washers, shall conform to Section 9-06.5(1), and shall be galvanized in accordance with ASTM F2329.

Pre-formed fabric pads shall be composed of multiple layers of duck, impregnated and bound with high quality oil resistant synthetic rubber, compressed into resilient pads. The pre-formed fabric pads shall conform to latest edition of MIL C 882 and the following requirements. The number of plies shall be as required to produce the specified thickness, after compression and vulcanizing.

Pre-formed fabric pads shall have a shore A hardness of 90$\pm$5 in accordance with ASTM D 2240.

Pre-formed fabric pads for bridge utility supports will be accepted based on the Manufacturer's Certificate of Compliance that the material furnished conforms to these specifications.

6-02.2.OPT46(D).GB6

(June 26, 2000)

Pipe rolls or pipe saddles shall be of the type and model specified in the Plans.

6-02.2.OPT46(E).GB6

(September 3, 2019)

Anchor straps shall conform to ASTM A 36 and shall be galvanized after fabrication in accordance with AASHTO M 111.

Anchor bolts, and associated nuts and washers, shall conform to Section 9-06.5(4), and shall be galvanized in accordance with ASTM F2329.

6-02.2.OPT48.GB6

***(April 30, 2001)***

***Bridge Drain Risers***

Spacer bars and riser bars for the drain riser assembly shall conform to ASTM A 36.

6-02.2.OPT58.GB6

***(September 8, 2020)***

***Core Drilled Bridge Deck Drain***

Bridge deck drain pipe sleeve shall be any smooth wall, non-perforated, PVC pipe of the diameter and minimum wall thickness specified in the Plans.

Epoxy bonding agent shall be Type II conforming to Section 9-26.1. The grade and class of the epoxy bonding agent shall be as recommended by the bonding agent manufacturer.

6-02.2.OPT60.GB6

***(April 6, 2015)***

***Seismic Retrofit Materials***

Components fabricated and constructed for seismic retrofit work shall conform to the following requirements:

6-02.2.OPT60(B).GB6

(April 6, 2015)

Steel pipe shall conform to ASTM A 53, Grade B, Type E or S, galvanized. The pipe shall be Schedule 40, except as otherwise specified in the Plans.

PVC pipe shall be any smooth wall, non-perforated, PVC pipe of the diameter and minimum wall thickness or Schedule specified in the Plans.

6-02.2.OPT60(C).GB6

(September 8, 2020)

Steel bars, plates and shapes shall conform to ASTM A 36 except that structural shapes may conform to ASTM A 992.

Epoxy bonding agent, where shown in the Plans for bonding steel components to concrete, shall be Type II as specified in Section 9-26.1. The grade and class of epoxy bonding agent shall be as recommended by the bonding agent manufacturer.

All steel components and assemblies for seismic restrainers, except as otherwise specified, shall be galvanized after fabrication in accordance with AASHTO M 111.

Bolts, nuts, and washers shall conform to Section 9-06.5(3), and shall be galvanized after fabrication in accordance with ASTM F2329.

Resin bonded anchors shall conform to Section 6-02.2 as supplemented in these Special Provisions. Additionally, the threaded anchor rods for seismic retrofit elements shall conform to either ASTM A 193 Grade B7 or ASTM F 1554 Grade 105, and shall conform to the appropriate supplemental requirements for grade and manufacturer's identification, and charpy impact testing (15-foot-pounds minimum at 40F). Results of the charpy impact testing for the production lot(s) including the anchor rods furnished for seismic retrofit components and assemblies shall be submitted to the Engineer along with the Manufacturer's Certificate of Compliance.

6-02.2.OPT60(D).GB6

(September 8, 2020)

High-strength steel rods for longitudinal seismic restrainer assemblies shall conform to ASTM F 1554 Grade 105, including Supplemental Requirements S2, S3, and S5.

Nuts, and couplers if required, shall conform to ASTM A 563 Grade DH. Washers shall conform to ASTM F 436.

High-strength steel rods and associated couplers, nuts and washers shall be galvanized after fabrication in accordance with ASTM F2329.

6-02.2.OPT60(F).GB6

**(September 8, 2020)**

**Column Jacketing Materials**

All metal components shall conform to ASTM A 36, and shall be painted in accordance with Section 6-07.3(9), and Section 6-03.3(30) as supplemented in these Special Provisions. Metal surfaces in contact with grout shall be considered in contact with concrete for the purposes of Section 6-07.3(9).

Grout shall conform to the requirements of Section 9-20.3(4) and the following requirements:

> The grout shall be a pumpable mix capable of filling the annulus between the concrete column and steel column jacket assembly. The grout shall be free of lumps and undispersed cement, and shall not show any visible signs of separation of water and cement during pumping operations.

Aggregate conforming to Section 9-03.1(5) with a maximum aggregate size of 3/8 inch may be used to extend the grout. Mortar shall conform to Section 9-20.4(2).

Epoxy bonding agent for filling grout voids shall be Type II, as specified in Section 9-26.1. The grade and class of epoxy bonding agent shall be as recommended by the bonding agent manufacturer.

6-02.2.OPT61.GB6

***(September 8, 2020)***

***Precast Prestressed Concrete Stay-In-Place Panels***

Concrete shall have an initial strength at strand release of at least 5,000 psi, and a 28 day minimum compressive strength as specified in the Plans.

Prestressing reinforcement strand shall conform to Section 9-07.10, except that the diameter shall be as specified in the Plans. The strand shall be provided by a manufacturer and facility capable of producing ½" diameter strand with an average bond pull-out force of 16.0 kips when tested in accordance with ASTM A1081. Test reports for ASTM A1081 shall be submitted with the Manufacturer's Certificate of Compliance, and testing shall have been performed on strand produced within the previous 36 months.

Grout shall conform to Section 9-20.3(2).

Leveling bolts shall conform to Section 9-06.5(1), and shall be galvanized after fabrication in accordance with AASHTO M 232.

Backer rod shall be closed cell expanded polyethylene foam.

6-02.3.GR6

## Construction Requirements

6-02.3.INST1.GR6
Section 6-02.3 is supplemented with the following:

6-02.3.OPT1.GB6

***(September 7, 2021)***

***Epoxy Crack Sealing***

The materials being used may be dermatetic. The Contractor's contact with and use of the materials shall conform to the requirements specified in the SDS for each material, and all personnel shall be provided with appropriate clothing and protective garments.

All materials shall be stored and protected from ignition sources as recommended by the material manufacturer.

The cracks shall be cleaned of efflorescence, deteriorated concrete and other surface debris, by vacuuming, flushing, routing, sawing or other means as required.

Entry ports shall consist of tubes, tees or other valve devices as recommended by the resin manufacturer. The ports shall be placed at intervals along each crack in accordance with the manufacturer's written instructions for the resin being used. The holes for the entry ports shall be drilled with a hollow bit with an attached vacuum chuck to prevent concrete dust from becoming embedded in the crack.

The exposed crack surfaces and the areas around the entry ports shall be sealed with epoxy sealing paste and cured in accordance with the resin manufacturer's written instructions, to attain a seal capable of withstanding the applied injection pressures.

The Contractor shall furnish the services of a factory trained technical representative to perform the epoxy crack sealing injection.

Injection shall be accomplished with a pressure or injection machine compatible with the resin selected for use and shall begin at the lowest port and continue until there is evidence of the resin at the entry port directly above and adjacent to the port being pumped. When material travel is indicated, the nozzle shall be moved to the port that shows resin. The previously pumped port shall be sealed. Injection shall continue until the crack is completely filled. On wide cracks where resin travel between ports will be rapid, two or more ports may be pumped simultaneously. On exceptionally large cracks, a formulation (dependent upon crack width, ambient temperature, modulus requirements and other variables) of epoxy resin and fine sands shall be used as recommended by the resin manufacturer.

After all ports have been pumped and the crack is full, the epoxy resin shall be cured without disturbance in accordance with the resin manufacturer's written instructions as necessary to ensure development of the full bond capacity of the material.

After the epoxy has cured completely, the epoxy sealing paste and port stems shall be ground flush with the original surface of the concrete.

At the discretion of the Engineer, cores shall be taken after the repair is completed to confirm penetration and bonding. The number and locations of such cores will be as specified by the Engineer. These cores shall be submitted to the Engineer for testing in the State Materials Laboratory. The Contractor shall submit a Working Drawing for repair of core holes in accordance with Section 6-01.16.

6-02.3.OPT2.GB6

***Bridge Supported Utilities***

6-02.3.OPT2(A).GB6

(August 3, 2015)

The Contractor shall furnish and install inserts for the bridge utility supports as shown in the Plans. The Contractor shall verify that the hanger rods freely hang plumb in their inserts, and shall make adjustments to the inserts as necessary and as accepted by the Engineer prior to utility installation.

6-02.3.OPT2(B).GB6

(June 26, 2000)

The Contractor shall furnish and install the bridge utility supports, and the utility pipe or conduit pipe, as shown in the Plans.

6-02.3.OPT2(C).FB6

(June 26, 2000)

The Utility Company will furnish material for and install *** $$1$$ ***. The Contractor shall install *** $$2$$ *** furnished by the *** $$3$$ ***.

The Contractor shall notify the utility company a sufficient time in advance and shall cooperate with the utility company in order that the utility furnished items may be installed in the structure.

6-02.3.OPT8.GB6

***Seismic Retrofit***

6-02.3.OPT8(B).GB6

**(April 6, 2015)**

**Seismic Retrofit Demolition Plan**

The Contractor shall submit Type 2 Working Drawings showing the method of removing the specified portions of the existing bridges required by the seismic retrofit work. The Working Drawings shall show the sequence of demolition and removal, the type of equipment to be used in all demolition and removal operations, and details of the methods and equipment used for containment, collection, and disposal of all debris. The Working Drawings shall show all stages of demolition.

6-02.3.OPT8(C).GB6

**(April 6, 2015)**

**Column Jacket Installation Plan**

The Contractor shall submit Type 2E Working Drawings describing the column jacket installation plan. The submittal shall include at a minimum, the following:

1. Step by step installation procedure.

2. The methods of cleaning and preparing the existing column surfaces prior to installing the column jacket assembly.

3. The methods of containing, collecting, and disposing of the debris generated by cleaning and preparing the existing column surfaces.

4. The methods of containing, collecting, and disposing of all excess grout generated during the grouting process.

5. The locations of grout injection valves, and the methods and materials used to remove them following use, and to fill the void following removal.

6. The method of sealing the gap between the existing column surface and the column jacket assembly prior to grouting.

7. The method and materials used to clamp and brace the column jacket assembly in place during field assembly and grouting.

8. The proposed grout mix with manufacturer's data sheets.

9. The equipment used to pump the grout and monitor the grout pressure and the quantity of grout injected.

10. The method, materials, and equipment used to fill grout voids within the column jacket assembly, and to finish the exposed surface flush after repair.

11. The method, materials, and equipment used to field repair all damaged primer coatings, and to field apply the intermediate and finish coats of paint.

6-02.3.OPT8(D).GB6

**(April 6, 2015)**

**Column Jacket Shop Drawings**

The Contractor shall submit column jacket shop drawings as Type 2 Working Drawings. The shop drawings shall include, at a minimum, the following:

1. Plan, elevation, and sections of the jacket system and all components, with all dimensions and tolerances.

2. Field measurements of the existing column(s).

3. All material designations.

4. Location of horizontal and vertical splices.

5. Location of spacers and method of attachment.

6. Welds and welding procedures.

6-02.3.OPT8(E).GB6

**(September 8, 2020)**

**Field Measuring Existing Bridge Columns**

The Contractor shall field measure the dimensions (diameter, or width and thickness, as appropriate for column shape) of the existing bridge columns receiving column jackets prior to preparing column jacket assembly shop drawings. The following locations shall be field measured as a minimum for each column:

1. Top of footing or footing pedestal.

2. Bottom of crossbeam.

3. Mid-height of column.

The Contractor shall field measure the column height from top of footing or footing pedestal to bottom of crossbeam for each column.

The Contractor shall tabulate these field measured dimensions and submit them to the Engineer along with the column jacket assembly shop drawings.

Where site conditions, such as traffic control requirements or deeply buried foundations, create difficulties for field measuring buried portions of the bridge columns, the Contractor may request a waiver of the pre-fabrication field measuring requirements for specific columns. If the Engineer concurs with the Contractor's request for a waiver of the pre-fabrication field measuring requirement for specific columns, and for columns identified in the Special Provisions as already designated with a waiver, the Contractor shall:

1. Field measure the diameter, or width and thickness, as appropriate for the column shape, of the above ground portion of the column receiving the waiver.

2. Fabricate the column jacket to a length exceeding the column height (2'-0" or ten percent of the estimated column height, whichever is greater) based on the original plans and other available site data. The shop drawing details shall specify the column jacket fabrication length, and the assumed column height based on the available information.

3. Submit the method, template, and equipment used to field cut the top of the column jacket assembly at installation.

The Contractor shall submit the request for a waiver of the pre-fabrication field measuring requirement prior to preparing column jacket assembly shop drawings, and shall not submit shop drawings until receiving the Engineer's confirmation of the waiver request and completing all field measurements still required.

6-02.3.OPT8(F).FB6

(April 6, 2015)

The column(s) at the Bridge and Pier location(s) specified below has (have) received a waiver of the pre-fabrication field measuring requirement, and no separate waiver request from the Contractor is required for this (these) specific column(s):

*** $$1$$ ***

However, the Contractor shall conform to all other requirements specified above for columns receiving a waiver of the pre-fabrication field measuring requirement.

6-02.3.OPT8(G).FB6

**(April 6, 2015)**

**Field Measuring for Seismic Retrofit Components**

The Contractor shall field measure dimensions of existing items and members of Bridge No(s). *** $$1$$ *** prior to preparing shop drawings for fabricated steel components and assemblies.

The Contractor shall field measure dimensions of the following items:

*** $$2$$ ***

The Contractor shall tabulate these field measured dimensions and submit them to the Engineer along with the shop drawing submittals for the corresponding steel components and assemblies.

6-02.3.OPT8(H).GB6

**(April 6, 2015)**

**Removing Portions of Existing Concrete**

The Contractor shall remove portions of existing concrete required by the seismic retrofit work in accordance with Section 2-02.3(2)A2 and as shown in the Plans.

The Contractor shall dispose of all materials removed by the demolition operations in accordance with Section 2-02.3.

The Contractor shall roughen, clean, and saturate the existing concrete surfaces bonding to the fresh concrete in accordance with Section 6-02.3(12).

6-02.3.OPT8(J).GB6

**(April 6, 2015)**

**Drilling Holes and Setting Steel Reinforcing Bars, and Placing Concrete**

The Contractor shall drill holes for, and set, steel reinforcing bars into the existing concrete as shown in the Plans in accordance with Section 6-02.3(24)C as supplemented in these Special Provisions.

6-02.3.OPT8(K).GB6

**(April 6, 2015)**

**Installing and Tensioning High-Strength Steel Bar Reinforcement**

The Contractor shall furnish and install high-strength steel bars as shown in the Plans. The hole through existing concrete shall be core drilled. The concrete surface in contact with the high-strength steel bar bearing plate shall be coated with epoxy bonding agent just prior to stressing the high-strength steel bar. After stressing, the high-strength steel bar shall be grouted in accordance with Section 6-02.3(26)H.

6-02.3.OPT8(L).GB6

**(April 6, 2015)**

**Longitudinal Seismic Restrainers**

The Contractor shall submit Type 1 Working Drawings consisting of shop drawings of the steel components of the longitudinal seismic restrainer assemblies in accordance with Section 6-03.3(7).

The Contractor shall core drill holes through the pier diaphragm for the high-strength steel bar as shown in the Plans. The Contractor shall set the PVC pipe in place with epoxy bonding agent as shown in the Plans.

Holes for the resin bonded anchors for the longitudinal seismic restrainer anchorages shall be located and drilled in accordance with Section 6-02.3(18) as supplemented in these Special Provisions, and as follows:

1. The bottom layer of steel reinforcing bars in the slab in the vicinity of the longitudinal seismic restrainer anchorage as shown in the Plans shall be located and marked on the concrete surface.

2. Using the anchorage assembly as a template, the Contractor shall align and slightly shift the anchorage assembly as required so that the holes avoid the existing steel reinforcing bars.

3. The Contractor shall drill holes for the resin bonded anchors with the anchorage assembly in position as a template.

4. If, after shifting the anchorage assembly, conflicts still exist between hole locations and existing steel reinforcing bars, the Contractor may, with the Engineer's approval, core drill holes at the conflict locations.

The surface of the concrete in contact with the anchorage assembly shall be coated with Type II epoxy bonding agent conforming to Section 9-26.2, with the grade and class as recommended by the epoxy bonding agent manufacturer. The longitudinal seismic restrainer anchorage assembly shall be set in place within the set time specified in the manufacturer's data sheet for the epoxy bonding agent.

All longitudinal seismic restrainers at a pier shall be installed so that the free end (the end with the gap as shown in the Plans) shall be on the same side of the pier.

6-02.3.OPT8(M).GB6

**(September 8, 2020)**

**Column Jacketing**

The steel column jacket assembly for each column shown in the Plans shall be fabricated in accordance with the shop drawings.

The Contractor shall excavate and shore as required to expose the column surface below ground to the top of the existing footing or footing pedestal. Dirt, debris and any surface attachments shall be removed from the surface of the column in accordance with the Contractor's column jacket installation plan.

For specific columns for which the Engineer confirms a waiver of the pre-fabrication field measuring of the column height dimension, the Contractor shall field measure the column height upon completion of the excavation. The Contractor shall field cut the top of the column jacket assembly using the method, template, and equipment as specified in the pre-fabrication field measuring waiver request submittal.

The Contractor shall position the steel column jacket around the existing column using spacers to center the assembly. The spacers may be welded to the inside of the jacket and, if used, shall be placed and attached as shown in the shop drawings.

Field welded complete penetration groove welds of the column jacket assemblies shall be inspected in accordance with Section 6-03.3(25)A. Field weld inspection shall be performed by a certified welding inspector (CWI). The Contractor shall not begin welding until receiving acceptance of the joint fit-up from the CWI. The CWI shall randomly monitor the intermediate stages of welding. The CWI's daily reports and nondestructive testing reports indicating compliance with contract requirements shall be submitted as a Type 1 Working Drawing upon completion of the last column jacket in the Contract.

The Contractor shall install external grout injection valves for use in filling the cavity with grout. The valves shall be spaced such that the grout will uniformly fill the gap between the jacket assembly and the column surface. The grout pump shall be equipped with a pressure gauge to monitor grout pressures. The grouting equipment shall be sized to enable the grout to be pumped in one continuous operation. The mixer shall be capable of continuously agitating the grout.

The production grout compressive strength shall be measured using four inch diameter by eight inch cylinders, cast and cured in accordance with Section 6-02.3(5)H. The cylinders shall attain a 7-day minimum compressive strength of 4,000 psi.

The gap between the column jacket assembly and the existing column surface at the base of the assembly shall be sealed in accordance with the column jacket installation plan.

The grouting operation shall conform to Section 6-02.3(6)A.

The grouting operation shall begin from the base of the assembly and from the base of each successive lift. The Contractor shall pump grout into the assembly while maintaining a uniform level grout head around the column.

The Contractor shall limit the height of each lift of grout to minimize undulations and displacements of the surface of the column jacket assembly during grouting. For column jacket assemblies of circular (constant radius) cross section, the height of each lift of grout shall be limited to 20 feet maximum, except as otherwise accepted by the Engineer. For column jacket assemblies with cross sections of all other shapes, the height of each lift of grout shall be limited to 8 feet maximum, except as otherwise accepted by the Engineer.

The Contractor may restrain the column jacket assembly within the specified tolerances during grouting operations by using a bracing system in accordance with the column jacket installation plan. Except as otherwise shown in the Plans, restraints for the bracing system shall not pass through the column. Except when a bracing system is used, placement of the next grout lift shall not begin until the previous grout lift has hardened.

The Contractor shall contain and collect all grout outside the column jacket assembly.

When the assembly is completely grouted to the top, the Contractor shall place mortar conforming to Section 9-20.4(2) over the top of the grout at the top of the assembly, and shall slope the mortar to drain.

All clamps, valves, injection ports, lifting ears, and other attachments shall be removed not less than 24 hours after completing grouting operations at the column. The Contractor shall fill all voids with mortar conforming to Section 9-20.4(2), and shall finish them flush with the exterior surface of the column jacket assembly. The Contractor shall not remove the attachments by flame cutting.

Seven calendar days after completing the grouting of a column jacket assembly, the Engineer will inspect the assembly for voids between the steel casing and the grout. The Contractor shall completely fill all voids detected by the Engineer by injecting epoxy bonding agent into the lowest point of each void and venting at the highest point. The exposed epoxy bonding agent shall be finished flush with the exterior surface of the column jacket assembly.

After inspection for voids and epoxy injection of voids is complete, steel surfaces with damaged primer coat shall be repaired with field primer in accordance with Section 6-07.3(9). The primer repair shall be followed by application of the intermediate and finish field coats of paint to all exposed steel surfaces in accordance with Section 6-07.3(9) and Section 6-03.3(30) as supplemented in these Special Provisions.

Backfill shall not be placed against the column jacket assembly until the finish coat of paint is completely cured, based on the cure duration recommended by the paint manufacturer. The Contractor shall fill and compact the excavation with native backfill, except as otherwise specified in the Plans, in accordance with Section 2-09.3(1)E.

6-02.3.OPT9.GB6

***(January 7, 2019)***

***Polyester Concrete***

**Manufacturer's Technical Representative**

The Contractor shall have the services of a qualified polyester concrete manufacturer's technical representative physically present at the job site. The manufacturer's technical representative shall assist the Contractor in training the Contractor's personnel and providing technical assistance in preparing the header blockout surface, applying primer, and mixing, placing, and curing the polyester concrete.

**Mix Design**

Polyester concrete shall be composed of the following three components – polyester resin binder, high molecular weight methacrylate (HMWM) resin, and aggregate, in accordance with Section 6-02.2 as supplemented in these Special Provisions.

The Contractor shall prepare and submit a Type 1 Working Drawing consisting of the polyester concrete design mix and mixing procedure. The mix design shall include a recommended initiator percentage for the expected application temperature, and the recommended amount of polyester resin binder as a percentage of the dry weight of aggregate. The amount of peroxide initiator used shall result in a polyester concrete set time between 30 and 120 minutes during placement as determined by California Test 551, Part 2, "Method of Test For Determination of Set Time of Concrete Overlay and Patching Materials", by Gilmore Needles. Accelerators or inhibitors may be required as recommended by the polyester resin binder supplier.

**Delivery and Storage of Materials**

All materials shall be delivered in their original containers bearing the manufacturer's label, specifying date of manufacturing, batch number, trade name brand, and quantity. Each shipment of polyester resin binder and HMWM resin shall be accompanied by a Safety Data Sheet (SDS).

The material shall be stored in accordance with the manufacturer's recommendations.

Sufficient material to perform the entire polyester concrete application shall be in storage at the site prior to any field preparation.

**Equipment and Containment**

The Contractor shall submit a Type 1 Working Drawing consisting of all equipment for cleaning the concrete and steel surfaces, and mixing and applying the polyester concrete.

The HMWM resin, and abrasive blasting materials, shall be contained and restricted to the surface receiving the polyester concrete only, and shall not escape to the surrounding environment. The Contractor shall submit a Type 1 Working Drawing consisting of the method and materials used to collect and contain the HMWM resin, and abrasive blasting materials.

**Surface Preparation**

The concrete and steel surfaces shall be prepared by removing all material which may act as a bond breaker between the surface and the polyester concrete. Surface cleaning shall be by abrasive blasting. Precautions shall be taken to ensure that no dust or debris leaves the bridge deck and that all traffic is protected from rebound and dust.

If the concrete or steel surfaces become contaminated, the contaminated areas shall be recleaned by abrasive blasting.

**Application of Prime Coat**

Application of the HMWM prime coat and the polyester concrete shall not begin if rain is forecast within 12-hours of completion of the Work. The area receiving the prime coat shall be dry and had no rain within the past 12 hours. Immediately prior to applying the prime coat, the surfaces shall be cleaned to remove accumulated dust and any other loose material.

The concrete bridge deck surface shall be between 50F and 85F when applying the prime coat.

The Contractor shall apply one coat of promoted/initiated wax-free HMWM resin to the prepared concrete and steel surfaces immediately before placing the polymer concrete. The promoted/initiated resin shall be worked into the concrete in a manner to assure complete coverage of the area receiving polyester concrete. A one pint sample of each batch of promoted/initiated HMWM resin shall be retained and submitted to the Engineer at the time of primer application.

The prime coat shall cure for 30 minutes minimum before beginning placement of the polyester concrete. Placement of the polymer concrete shall not proceed until the

Engineer verifies that the HMWM resin was properly promoted and initiated, as evidenced by the HMWM batch sample.

If the primed surface becomes contaminated, the contaminated area shall be cleaned by abrasive blasting and reprimed.

**Mixing Equipment for Polyester Concrete**

Polyester concrete shall be mixed in mechanically operated mixers in accordance with the mix design as approved by the Engineer. The mixer size shall be limited to a nine cubic yard maximum capacity, unless otherwise approved by the Engineer.

The aggregate and resin volumes shall be recorded for each batch along with the date of each recording. A printout of the recordings shall be furnished to the Engineer at the end of each work shift.

The Contractor shall prevent any cleaning chemicals from reaching the polyester mix during the mixing operations.

**Mixing Components**

The polyester resin binder in the polyester modified concrete shall be approximately 12 percent by weight of the dry aggregate. The Contractor shall specify the exact percentage in the mix design Working Drawing submittal.

The polyester resin binder shall be initiated and thoroughly blended just prior to mixing the aggregate and binder. The polyester concrete shall be thoroughly mixed prior to placing.

**Polyester Concrete Placement**

The polyester concrete shall be placed within two hours of placing the prime coat.

Polyester concrete shall be placed within 15 minutes following initiation. Polyester concrete that is not placed within this time shall be discarded.

The surface temperature of the area receiving the polyester concrete shall be the same as specified above for the HMWM prime coat.

The polyester concrete shall be consolidated in accordance with the manufacturer's recommendations.

**Finished Polyester Concrete Surface**

The finished surface of the polyester concrete shall be smooth and uniform as to crown and grade in accordance with Section 6-02.3(10)D3.

Finishing equipment used shall strike off the polyester concrete to the established grade and cross section.

The polyester concrete shall receive an abrasive sand finish. The sand finish shall be applied by hand immediately after strike-off and before gelling occurs. Sand shall be broadcast onto the surface to affect a uniform coverage of a minimum of 0.8 pounds per square yard.

**Curing**

The polyester concrete shall be cured in accordance with the manufacturer's recommendations. The Contractor shall measure the compressive strength of the cured polyester concrete with a rebound hammer in accordance with ASTM C 805. The readings of the rebound hammer used shall be correlated to the compressive strength of the polyester concrete product in accordance with ASTM C 805 Section 5.4, and the Contractor shall submit a Type 1 Working Drawing of this correlation.

Traffic and equipment shall not be permitted on the polyester concrete until it achieves a compressive strength of 2500 psi based on the rebound hammer readings and the correlation chart for the rebound hammer used.

6-02.3.OPT10.GB6

***(January 7, 2019)***

***Elastomeric Concrete***

Elastomeric concrete shall be composed of the following three components – two-component polyurethane resin binder, and aggregate, in accordance with Section 6-02.2 as supplemented in these Special Provisions.

**Manufacturer's Technical Representative**

The Contractor shall have the services of a qualified elastomeric concrete manufacturer's technical representative physically present at the job site. The manufacturer's technical representative shall assist the Contractor in training the Contractor's personnel and providing technical assistance in preparing the header blockout surface, applying primer, and mixing, placing, and curing the elastomeric concrete.

**Delivery and Storage of Materials**

All materials shall be delivered in their original containers bearing the manufacturer's label, specifying date of manufacturing, batch number, trade name brand, and quantity. Each shipment of polyurethane resin binder shall be accompanied by a Safety Data Sheet (SDS).

The materials shall be stored in accordance with the manufacturer's recommendations.

Sufficient material to perform the entire elastomeric concrete application shall be in storage at the site prior to any field preparation.

**Equipment and Containment**

The Contractor shall submit a Type 1 Working Drawing consisting of all equipment for cleaning the concrete and steel surfaces, and mixing and applying the elastomeric concrete.

The abrasive blasting materials shall be contained and restricted to the surface receiving the elastomeric concrete only and shall not escape to the surrounding environment. The Contractor shall submit a Type 1 Working Drawing consisting of the method and materials used to collect and contain the abrasive blasting materials.

**Surface Preparation**

The concrete and steel surfaces shall be prepared by removing all material which may act as a bond breaker between the surface and the elastomeric concrete,

including the removal of all loose, deteriorated, or otherwise unsound concrete. Steel surfaces shall be cleaned and prepared to an SSPC SP-10 surface condition. Surface cleaning shall be by abrasive blasting.

Precautions shall be taken to ensure that no dust or debris leaves the bridge deck and that all traffic is protected from rebound and dust.

If the concrete or steel surfaces become contaminated, the contaminated areas shall be recleaned by abrasive blasting.

Freshly placed concrete shall be cured for a minimum of 14 calendar days before application of primer and elastomeric concrete.

**Application of Prime Coat**

Application of the prime coat and the elastomeric concrete shall not begin if rain is forecast within 12-hours of completion of the Work. The area receiving the prime coat shall be dry and had no rain within the past 12 hours. Immediately prior to applying the prime coat, the surfaces shall be cleaned to remove accumulated dust and any other loose material.

The concrete bridge deck surface shall be between 50F and 85F when applying the prime coat.

The Contractor shall apply primer in accordance with the elastomeric concrete manufacturer's recommendations and shall limit the extent of primer application to that surface area that can be covered by a layer of elastomeric concrete before primer cure.

If the primed surface becomes contaminated, the contaminated area shall be cleaned by abrasive blasting and reprimed.

**Mixing Components**

The Contractor shall mix the elastomeric concrete components and the resultant mixture in accordance with the equipment and procedure recommended by the elastomeric concrete manufacturer.

**Elastomeric Concrete Placement**

The elastomeric concrete shall be placed on the liquid prime coat within the time limits specified by the manufacturer. Elastomeric concrete shall be placed in layers not to exceed the maximum depth recommended by the elastomeric concrete manufacturer. At locations deep enough to require placement of multiple layers of elastomeric concrete, each layer shall be cured, and the top of the previous layer roughened, as recommended by the elastomeric concrete manufacturer before placement of the next layer.

Elastomeric concrete shall be placed within five minutes of initiation.

The surface temperature of the area receiving the elastomeric concrete shall be the same as specified above for the prime coat.

**Finished Elastomeric Concrete Surface**

The finished surface of the elastomeric concrete shall be smooth and uniform as to crown and grade in accordance with Section 6-02.3(10)D3.

Finishing tools or equipment used shall strike off the elastomeric concrete to the established grade and cross section.

The finished surface of elastomeric concrete shall receive an abrasive sand finish. The sand finish shall be applied by hand immediately after strike-off and before gelling occurs. Sand shall be broadcast onto the surface to affect a uniform coverage of a minimum of 0.8 pounds per square yard.

**Curing**

The elastomeric concrete shall be cured in accordance with the manufacturer's recommendations. The Contractor shall measure the compressive strength of the cured elastomeric concrete with a rebound hammer in accordance with ASTM C805. The readings of the rebound hammer used shall be correlated to the compressive strength of the elastomeric concrete product in accordance with ASTM C805 Section 5.4, and the Contractor shall submit a Type 1 Working Drawing of this correlation.

Traffic and equipment shall not be permitted on the elastomeric concrete until it achieves a compressive strength of 2500 psi based on the rebound hammer readings and the correlation chart for the rebound hammer used.

6-02.3(2).GR6

***Proportioning Materials***

6-02.3(2).INST1.GR6

Section 6-02.3(2) is supplemented with the following:

6-02.3(2).OPT1.GB6

**(September 8, 2020)**

**Expansion Joint Header Concrete**

Expansion joint header concrete shall have a minimum compressive strength of 4,000 psi at 28 days. Unless the Plans or Special Provisions specify a different strength, the concrete shall achieve a minimum compressive strength of 2,500 psi based on early break cylinders prior to allowing traffic to pass across the expansion joint.

Type III cement conforming to Section 9-01.2(1) may be used.

The nominal maximum size aggregate shall be 1-1/2 inch.

Section 6-02.3(3) notwithstanding, non-chloride accelerating admixtures conforming to the following specifications may be used:

| **Admixture** | **Specifications** |
|---|---|
| Accelerating | Section 9-23.6(4) |
| Water Reducing/Accelerating | Section 9-23.6(6) |

6-02.3(6).GR6

### *Placing Concrete*

6-02.3(6)B.GR6

**Placing Concrete in Foundation Seals**

6-02.3(6)B.INST1.GR6

Section 6-02.3(6)B is supplemented with the following:

6-02.3(6)B.OPT1.GB6

(June 26, 2000)

If, in the opinion of the Engineer, water conditions at the time of construction do not require seals for footing construction, the Engineer may specify that the seals be omitted. In such a case the Contractor shall lower and construct the footing, as shown in the Plans, at the elevation shown in the Plans for the bottom of seal. The height of the pier shaft or columns shall be adjusted accordingly.

No adjustment will be allowed in the unit contract prices for concrete, steel reinforcing bar, and excavation by reason of any increase or decrease in quantities involved due to the deletion of seals.

6-02.3(6)B.OPT2.GB6

(June 26, 2000)

If, in the opinion of the Engineer, water conditions at the time of construction do not require seals for construction, the Engineer may specify that the seals be omitted. In such a case, the Contractor shall excavate only to the bottom of footing elevation and shall construct the footing as shown in the Plans.

No adjustment will be allowed in the unit contract prices for concrete, steel reinforcing bar, and excavation by reason of any increase or decrease in quantities involved due to the deletion of seals.

6-02.3(9).GR6

### *Precast Concrete Panels*

6-02.3(9)A.GR6

**Shop Drawings**

6-02.3(9)A.INST2.GR6

The list included in the third paragraph of Section 6-02.3(9)A is supplemented with the following:

6-02.3(9)A.OPT6.GB6

(September 8, 2020)

7. Construction sequence and method of forming the precast prestressed concrete stay-in-place panels.

8. Details of additional reinforcement, if any, provided at lifting and support locations.

9. Method and equipment used to support the precast prestressed concrete stay-in-place panels during storage, transporting, and erection.

10. Method used to identify the precast prestressed concrete stay-in-place panel's location for calculating its position accounting for profile grade and transverse slope, and for ensuring correct placement during erection.

11. Erection sequence, including the method of lifting the panels, placing and adjusting the panels to proper alignment and grade, and supporting the panels during leveling and grouting operations.

12. Method for forming the grout pad on the exterior face of the prestressed concrete girder flange, if an alternative method is proposed, and at the interior face of the stay-in-place panel to the dimensions detailed in the Plans.

6-02.3(9)E.GR6

**Finishing**

6-02.3(9)E.INST1.GR6

Section 6-02.3(9)E is supplemented with the following:

6-02.3(9)E.OPT6.GB6

(September 8, 2020)

The Contractor shall furnish a Class 2 surface finish, as specified in Section 6-02.3(14)B, on all surfaces of the precast prestressed concrete stay-in-place panels, except as otherwise noted. The top surface of all panels shall be textured using a metal tined comb. It shall leave striations in the fresh concrete ¼-inch deep by at least 1/8-inch wide, spaced at 2 to 3 times the groove width apart, and oriented perpendicular to the prestressing strand. The timing and method used shall produce the required texture without displacing larger particles of aggregate. Areas of mortar buildup more than 1/4 inch above the top surface of the panel shall be removed.

6-02.3(9)F.GR6

**Tolerances**

6-02.3(9)F.INST1.GR6

Section 6-02.3(9)F is supplemented with the following:

6-02.3(9)F.OPT1.GB6

(September 8, 2020)

The precast prestressed concrete stay-in-place panels shall not exceed the following scalar tolerances:

| | |
|---|---|
| Length (perpendicular to strands): | ± 3/16 inch |
| Width (parallel to strands): | ± 1/4 inch |
| Thickness: | + 1/4, -1/8 inch |
| Squareness (difference in diagonal lengths): | ± 1/4 inch per 5 feet, ± 1/2" max. |

| | |
|---|---|
| Vertical location of strand group C.G.: | ± 1/16 inch |
| Vertical location of individual strands: | ± 1/8 inch |
| Horizontal location of strands: | ± 1/4 inch |
| Strand or bar projection from ends: | ± 1/2 inch |
| Camber (either upward or downward) at time of placement on structure: | ± 1/4 inch per ten feet |

Precast prestressed concrete stay-in-place panels with tolerances exceeding those specified above, or with hairline cracks visibly apparent radiating from the strand at the end of the panel and extending more than three inches along the panel will be subject to evaluation by the Engineer for possible rejection.

6-02.3(9)G.GR6

**Handling and Storage**

6-02.3(9)G.INST1.GR6

Section 6-02.3(9)G is supplemented with the following:

6-02.3(9)G.OPT6.GB6

(September 8, 2020)

Precast prestressed concrete stay-in-place panels shall be maintained in a flat and level position, without any twisting, at all times. Supports shall be oriented transverse to the prestressed strands, extend the full width of the panel, and be located in a manner to minimize elastic and time-dependent deformation of the panels.

Unloading and reloading at a site other than the bridge site will be permitted only under the direct supervision of the Engineer. The panels shall not be stacked, unless otherwise allowed by the Engineer. If such permission is granted, the panel supports shall be in the same vertical plane and shall be of sufficient height to prevent damage to the lifting bar loops. The Contractor shall have received the Engineer's verification that the bottom panel of the stack is flat and level, without any twisting, prior to stacking additional panels. The Contractor shall not stack panels on top of adjacent girders of the structure.

6-02.3(9)I.GR6

**Erection**

6-02.3(9)I.INST1.GR6

Section 6-02.3(9)I is supplemented with the following:

6-02.3(9)I.OPT6.GB6

(September 8, 2020)

The precast prestressed concrete stay-in-place panels shall be at least 60 days old at the time of placing bridge deck concrete. The Contractor shall place the panels atop the prestressed girders as shown in the Plans, adjusting the leveling

bolts as required to match the level of adjacent panels and accommodate camber.

The grout pad shall be placed after the panels have been fully adjusted for grade and camber. The exposed portion of the grout pad forms that are intended to be left in place permanently shall be tinted to match the color of the adjacent concrete surfaces and shall be secured with an accepted adhesive or other method as accepted by the Engineer.

Prior to placing the bridge deck steel reinforcing bars and concrete, the Contractor shall place a backer rod at the intersection between panels as shown in the Plans. All intersections between panels shall be sealed to prevent leakage during concrete placement. Prior to placing the bridge deck concrete, the surface of the panels shall be cleaned of all foreign materials and saturated with water for a minimum of 4 hours before fresh concrete is placed.

6-02.3(10).GR6

***Bridge Decks and Bridge Approach Slabs***

6-02.3(10)D.GR6

**Concrete Placement, Finishing, and Texturing**

6-02.3(10)D.INST1.GR6

Section 6-02.3(10)D is supplemented with the following:

6-02.3(10)D.OPT1.GB6

**(August 4, 2008)**

**Repairing Slab Left Exposed After Removing Existing Curb or Sidewalk**

The concrete exposed by the removal of the existing curb or sidewalk shall be removed to a depth of 1-inch below finished grade or to the top of the existing roadway deck steel reinforcing bars, whichever is less. The Contractor shall not remove concrete below the top of the existing steel reinforcing bars. The Contractor shall not damage the bond between the existing steel reinforcing bars and the concrete.

After roughening, cleaning and wetting the surface in accordance with Section 6-02.3(12), the Contractor shall place concrete over the surface to the finish grade of the adjacent concrete roadway deck using a modified Class 4000 concrete mix. The maximum aggregate size in the modified Class 4000 concrete mix shall be 3/8 inch. The finished portion of the deck shall have the same texture, slope and grade as that of the existing deck.

6-02.3(10)D.OPT2.GB6

**(August 4, 2008**

**Repairing Slab Left Exposed After Removing Existing Curb and Railbase**

After roughening and cleaning the concrete exposed by the removal of the existing curb and railbase, that portion of the exposed surface not covered by the new traffic barrier shall be coated with epoxy mortar and finished to have the same texture, slope and grade as that of the existing deck.

6-02.3(10)D.OPT3.GB6

**(August 3, 2015)**

**Bridge Drain Risers**

The Contractor shall submit a Type 2 Working Drawing consisting of the method of removing the bridge drain grate nipple extrusion, the method of grinding the existing curb as necessary for bridge drain riser installation, and the method of cleaning the existing drain casting surfaces in contact with the drain risers. The shop drawings and weld procedures for the drain riser assemblies shall be submitted in accordance with Sections 6-03.3(7) and 6-03.3(25).

The existing bridge drain grate bolt, debris from removing the nipple extrusion and cleaning the drain casting contact surfaces, and all debris in the bridge drain cavity, shall be disposed of in accordance with Section 2-02.3.

After cleaning the bridge drain casting contact surfaces, the Contractor shall install the spacer bars and riser bars of the bridge drain riser assembly as shown in the Plans.

All exposed surfaces of the spacer bars and riser bars following installation shall be painted with two coats of paint conforming to Section 9-08.1(2)F. Each coat shall have a minimum dry film thickness of two mils.

6-02.3(10)D.OPT3(A).GB6

(August 4, 2008)

A minimum of four slotted holes, each 2 inches long and 3/4 inches high, shall be provided on each bridge drain riser. The slotted holes shall be located at the bottom of the riser, two on the traffic side of the assembly and one each on the short ends of the assembly. Risers shall be installed to be flush with the proposed roadway profile and shall maintain uniform contact with the existing drain. This portion of work shall be completed prior to the installation of the membrane waterproofing.

The membrane waterproofing shall extend to the bottom of and all around the bridge drain riser, except that the Contractor shall ensure that the slotted holes of the bridge drain riser assembly remain open and unplugged by the membrane waterproofing. Water seeping under the overlay shall be allowed to drain through the slotted holes and into the bridge drains.

After all the items of work on this project have been completed, the Contractor shall clean and flush all the bridge drains.

6-02.3(10)D.OPT5.GB6

**(August 3, 2015)**

**Plugging Existing Bridge Drain**

The Contractor shall submit a Type 2 Working Drawing consisting of the method and materials used to plug the existing bridge drains specified in the Plans to be plugged. The submittal shall include the following:

1. Material used to plug the drain outlet, and method of securing the plug in position.

2. The type of concrete material used to fill the drain cavity.

3. The method used to remove the exposed drainpipe, if removal is specified in the Plans.

All cut, damaged, and exposed metal surfaces to remain, including the drain outlet plug if metal components are used, shall be painted with two coats of paint conforming to Section 9-08.1(2)F. Each coat shall have a minimum dry film thickness of two mils.

When the removal of exposed drainpipe is specified in the Plans, the Contractor shall remove the embedded anchors a minimum of one inch beneath the existing concrete surface. The void left by removal of the embedded anchors shall be filled with mortar conforming to Section 9-20.4(2). The mortar shall match the color of the existing concrete surface as near as practicable.

All materials removed from the bridge drains specified in the Plans to be plugged shall be disposed of as specified in Section 2-02.3.

6-02.3(10)D.OPT12.GB6

**(April 6, 2015)**

**Core Drilled Bridge Deck Drain**

The Contractor shall core drill drain holes through the bridge deck of the bridges and in the locations shown in the Plans. The Contractor shall grind the concrete bridge deck to provide a taper at the top of the cored hole if shown in the Plans. The Contractor shall contain, collect and dispose of the concrete cores and debris in accordance with Section 2-02.3.

The Contractor shall coat the surfaces of the cored holes with epoxy bonding agent, and shall set a bridge deck drain pipe sleeve in place as shown in the Plans. The Contractor shall ensure that the void between the cored hole surface and the outside of the pipe sleeve is completely filled with epoxy bonding agent. The Contractor shall take appropriate measures to prevent the epoxy bonding agent from escaping from the void and shall secure the pipe sleeve in position until the epoxy bonding agent is cured.

6-02.3(10)F.GR6

**Bridge Approach Slab Orientation and Anchors**

6-02.3(10)F.INST1.GR6

Section 6-02.3(10)F is supplemented with the following:

6-02.3(10)F.OPT2.GB6

(August 4, 2008)

The pavement end of the bridge approach slab shall be constructed parallel to the pavement seat.

6-02.3(10)F.OPT3.FB6

(August 4, 2008)

The pavement end of the bridge approach slab shall be constructed parallel to the pavement seat for bridge(s) No. *** $$1$$ ***. The pavement end of the bridge approach slab shall be constructed normal to the roadway center line for bridge(s) No. *** $$2$$ ***.

6-02.3(13).GR6

***Expansion Joints***

6-02.3(13).INST1.GR6

Section 6-02.3(13) is supplemented with the following:

6-02.3(13).OPT7.GB6

**Expansion Joint Modification**

6-02.3(13).OPT7(B).GB6

**(April 6, 2015)**

**Expansion Joint Demolition Plan**

The Contractor shall submit Type 2 Working Drawings showing the method of removing the specified portions of the existing bridge expansion joints. The Working Drawings shall show the sequence of demolition and removal, the type of equipment to be used in all demolition and removal operations, and details of the methods and equipment used for containment, collection, and disposal of all debris. The Working Drawings shall show all stages of demolition.

6-02.3(13).OPT7(C).GB6

**(April 6, 2015)**

**Joint Preparation and Installation Procedure**

The Contractor shall submit a Type 1 Working Drawing consisting of the sealant manufacturer's recommended joint preparation and installation procedure.

6-02.3(13).OPT7(D).FB6

**(April 6, 2015)**

**Field Measuring Existing Bridge Expansion Joints**

The Contractor shall field measure the following dimensions of the existing bridge expansion joints of Bridge No(s). *** $$1$$ ***:

1. Length along the roadway surface and the horizontal and vertical surfaces of the concrete curb.

2. Opening width at both curb lines and at the centerline of the roadway surface.

The Contractor shall submit a Type 1 Working Drawing consisting of the field measured dimensions.

6-02.3(13).OPT7(E).FB6

**(April 6, 2015)**

**Removing Portions of Existing Bridge Expansion Joints**

The Contractor shall remove all concrete, expansion joint materials, overlay, dirt and debris at the bridge expansion joints of Bridge No(s). *** $$1$$ *** within the blockout dimensions shown in the Plans.

Concrete removal shall conform to Section 2-02.3(2)A2 and the following restriction on power driven tools:

1. Jack hammers no heavier than the nominal 30 pound class.

2. Chipping hammers no heavier than the nominal 15 pound class.

No other power driven equipment shall be used to remove concrete in the vicinity of the bridge expansion joints. The power driven tools shall be operated at angles less than 45 degrees as measured from the surface of the deck to the tool.

The Contractor shall dispose of all materials removed from the bridge expansion joints in accordance with Section 2-02.3.

For polyester concrete headers, or elastomeric concrete headers, the Contractor shall clean and prepare all existing concrete surfaces bonding to the header in accordance with the ***Polyester Concrete*** or ***Elastomeric Concrete*** subsection, respectively, to Section 6-02.3 as supplemented in these Special Provisions. For concrete headers, the Contractor shall clean and prepare all existing concrete surfaces bonding to the header in accordance with Section 6-02.3(12)B.

6-02.3(13).OPT7(F).GB6

**(April 6, 2015)**

**Drilling Holes and Setting Steel Reinforcing Bars**

The Contractor shall drill holes for, and set, steel reinforcing bars into the existing concrete as shown in the Plans in accordance with Section 6-02.3(24)C as supplemented in these Special Provisions.

6-02.3(13).OPT7(G).GB6

**(April 6, 2015)**

**Placing Polyester Concrete or Elastomeric Concrete Headers**

The Contractor shall form the polyester concrete or the elastomeric concrete headers in accordance with either the ***Polyester Concrete*** or the ***Elastomeric Concrete*** subsection to Section 6-02.3 as supplemented in these Special Provisions. The Contractor shall remove all forms from the bridge expansion joints after casting and curing the polyester concrete or the elastomeric concrete headers.

6-02.3(13).OPT7(H).GB6

**(September 8, 2020)**

**Placing Concrete Headers**

The Contractor shall form, cast, and cure, the concrete headers in accordance with Section 6-02.3 and as shown in the Plans. Unless the Plans or Special Provisions specify a different strength, the concrete headers shall have attained a minimum compressive strength of 2,500 psi before the Contractor may allow traffic to pass across the expansion joint.

6-02.3(13).OPT7(I).GB6

**(September 8, 2020)**

**Placing Expansion Joint Sealant**

The Contractor shall have the services of a qualified sealant manufacturer's technical representative physically present at the job site to assist in assuring the proper installation of the rapid cure silicone sealant, provide technical assistance for the use of the joint sealant, train the Contractor's personnel

installing the joint sealant, and to observe and inspect the installation of at least the first complete joint.

The joint sealant shall not be placed against concrete until at least seven days after concrete placement. The joint sealant shall not be placed against polyester concrete or elastomeric concrete until a time period recommended by the sealant manufacturer.

The Contractor shall clean the bridge expansion joints of all forms, dirt, form oil, grease, and other deleterious material. The Contractor shall clean and prepare the entire joint surface receiving the joint sealant in accordance with the manufacturer's joint preparation procedure, and as recommended by the sealant manufacturer's technical representative, including two stage abrasive blasting surface preparation and compressed air cleaning. All steel surfaces to be in contact with the joint sealant shall be cleaned to an SSPC-SP10 condition. The joint receiving the sealant shall be sound, clean, dry, and frost free.

After the cleaned and prepared joint has received the Engineer's acceptance for joint dimensions, alignment, and preparation, the Contractor shall apply the primer, as recommended by the sealant manufacturer, to all surfaces to be in contact with the joint sealant. The primer shall dry and cure for the time period recommended by the sealant manufacturer for the surface type.

After the primer is cured, the Contractor shall place the backer rod, and place the rapid cure silicone sealant in accordance with the joint installation procedure.

If the joint width at the time of installation is less than 1-inch or greater than three inches, the Contractor shall not proceed with the expansion joint modification until the installation procedure is revised as recommended by the sealant manufacturer's technical representative.

After installing the rapid cure silicone sealant, the Contractor shall flood the joint area with water. If leakage is detected, the bridge expansion joint system shall be repaired by the Contractor, as recommended by the sealant manufacturer.

6-02.3(13).OPT7(J).GB6

**(September 8, 2020)**

**Placing Expansion Joint Sealant**

The Contractor shall have the services of a qualified sealant manufacturer's technical representative physically present at the job site to assist in assuring the proper installation of the rapid cure silicone sealant, provide technical assistance for the use of the joint sealant, train the Contractor's personnel installing the joint sealant, and to observe and inspect the installation of at least the first complete joint.

Prior to scarifying the concrete deck for the modified concrete overlay, the Contractor shall remove all expansion joint materials and debris from the existing expansion joints, and shall dispose of these materials and debris as specified in Section 2-02.3.

Prior to placing the modified concrete overlay, the Contractor shall install a temporary form as shown in the Plans to fill the expansion joint gap. The

temporary form shall preserve the expansion joint gap during the modified concrete overlay placement, and shall not damage the joint or the concrete overlay upon removal. The Contractor shall submit Type 2 Working Drawing consisting of the type of temporary form material, and the method of installation and removal.

The joint sealant shall not be placed against concrete (including concrete overlay except for polyester concrete overlay) until at least seven days after concrete placement.

After placing the modified concrete overlay and rounding the corner of the overlay at the joints with a 3/8 inch radius, the Contractor shall clean the bridge expansion joints of all temporary forms, dirt, form oil, grease, and other deleterious material. The Contractor shall clean and prepare the entire joint surface receiving the joint sealant in accordance with the manufacturer's joint preparation procedure, and as recommended by the sealant manufacturer's technical representative, including two stage abrasive blasting surface preparation and compressed air cleaning. All steel surfaces to be in contact with the joint sealant shall be cleaned to an SSPC-SP10 condition. The joint receiving the sealant shall be sound, clean, dry, and frost free.

After the cleaned and prepared joint has received the Engineer's acceptance for joint dimensions, alignment, and preparation, the Contractor shall apply the primer, as recommended by the sealant manufacturer, to all surfaces to be in contact with the joint sealant. The primer shall dry and cure for the time period recommended by the sealant manufacturer for the surface type.

After the primer is cured, the Contractor shall place the backer rod, and place the rapid cure silicone sealant in accordance with the joint installation procedure.

If the joint width at the time of installation is less than 1-inch or greater than three inches, the Contractor shall not proceed with the expansion joint modification until the installation procedure is revised as recommended by the sealant manufacturer's technical representative and as approved by the Engineer.

After installing the rapid cure silicone sealant, the Contractor shall flood the joint area with water. If leakage is detected, the bridge expansion joint system shall be repaired by the Contractor, as recommended by the sealant manufacturer.

6-02.3(13)C.GR6

**Modular Expansion Joint System**

6-02.3(13)C.INST1.GR6

Section 6-02.3(13)C is supplemented with the following:

6-02.3(13)C.OPT1.FB6

**(September 8, 2020)**

**Acceptable Manufacturers**

The following manufacturers are known to have prequalified modular expansion joint system details by successfully completing fatigue testing in accordance with Section 6-02.3(13)C:

1. The D.S. Brown Company
   P.O. Box 158
   300 E. Cherry Street
   North Baltimore, Ohio 45872-0158
   Tel. (419) 257-3561
   Fax (419) 257-2200
   www.dsbrown.com

2. Watson Bowman ACME Corporation
   95 Pineview Drive
   Amherst, New York 14228-2166
   Tel. (716) 691-7566
   Fax (716) 691-9239
   www.wbacorp.com

3. Mageba USA, LLC
   575 Lexington Ave FI-4
   New York, New York 10022-6146
   Tel. (212) 644-3335
   Fax (212) 644-3339
   www.magebausa.com

**Design Axle Loads and Impact Factors**

The vertical load range for fatigue design shall be a 32.0 kip tandem. This tandem shall be taken as two 16.0 kip axles spaced four feet apart. Only one of these tandem axles must be considered in the design, unless the joint opening exceeds four feet. The load range shall be increased by the dynamic load allowance (Impact Factor) of 75%. Load factors shall be applied in accordance with Table 3.4.1-1 of the AASHTO LRFD Bridge Design Specifications, current edition and latest interims.

The vertical load for strength design shall be a 50.0 kip tandem. This tandem shall be taken as two 25.0 kip axles spaced four feet apart. Only one of these tandem axles must be considered in the design, unless the joint opening exceeds four feet. This load shall be increased by the dynamic load allowance (Impact Factor) of 75%. Load factors shall be applied in accordance with Table 3.4.1-1 of the AASHTO LRFD Bridge Design Specifications, current edition and latest interims.

The horizontal load range for fatigue design shall be *** $$1$$ *** percent of the amplified vertical load range (LL+IM) specified above. For modular expansion joint systems installed on vertical grades in excess of five percent, the horizontal component of the amplified vertical load range (LL+IM) specified above shall be added to this horizontal load range.

The horizontal load for strength design shall be 20 percent of the amplified vertical load (LL+IM) specified above. For modular expansion joint systems installed on vertical grades in excess of five percent, the horizontal component of the amplified vertical load (LL+IM) specified above shall be added to this horizontal load.

**Fatigue Testing Laboratory**

The following facilities are known to be capable of performing the fatigue testing specified in Section 6-02.3(13)C:

1. Structural Engineering Testing Laboratory (SETL)
   University of Washington
   Seattle, WA
   SETL Director:
   Dr. Dawn Lehman: (206) 715-2108
   SETL Manager
   Vince Chaijaroen: (206) 543-7433

2. Bowen Laborabory
   Purdue University
   West Lafayette, IN
   Director of Bowen Laboratory:
   Dr. Amit Varma: (765) 496-3419

3. ATLSS Engineering Research Center
   Lehigh University
   Bethlehem, PA
   ATLSS Engineering Research Center Director:
   Dr. Richard Sause: (610) 758-3565
   ATLSS Engineering Research Center Administrative Director:
   Dr. Chad Kusco: (610) 758-5299

6-02.3(14).GR6

## *Finishing Concrete Surfaces*

6-02.3(14)C.GR6

**Pigmented Sealer for Concrete Surfaces**

6-02.3(14)C.INST1.GR6

Section 6-02.3(14)C is supplemented with the following:

6-02.3(14)C.OPT1.GB6

(April 6, 2009)

The color of the pigmented sealer shall be Washington Gray.

6-02.3(14)C.OPT2.GB6

(April 6, 2009)

The color of the pigmented sealer shall be Mt. St. Helens Gray.

6-02.3(14)C.OPT3.GB6

(April 6, 2009)

The color of the pigmented sealer shall be Mt. Baker Gray.

6-02.3(14)C.OPT4.GB6

(April 6, 2009)

The color of the pigmented sealer shall be Cascade Green.

6-02.3(14)C.OPT5.FB6

(April 6, 2009)

The color for the following structure feature(s) shall match the specified color(s):

| Structure and Feature | Pigmented Sealer Color |
|---|---|
| *** $$1$$ *** | *** $$2$$ *** |

6-02.3(17).GR6

***Falsework and Formwork***

6-02.3(17)C.GR6

**Falsework and Formwork at Special Locations**

6-02.3(17)C.INST1.GR6

Section 6-02.3(17)C is supplemented with the following:

6-02.3(17)C.OPT1.FB6

(~~September 3, 2019~~October 3, 2022)

Falsework opening over railroad tracks shall be approved by the Railroad Company in accordance with Section 1-07.28 and the Special Provisions. ~~The Contractor shall obtain permission from the Railroad Company for the Contractor's falsework openings over railroad tracks.~~ The Contractor shall notify the Railroad Company at least *** $$1$$ *** working days prior to erecting falsework over a track, and shall include the dimensions of the opening and the duration of the restricted clearance in the submittal.

6-02.3(17)K.GR6

**Concrete Forms on Steel Spans**

6-02.3(17)K.INST1.GR6

The first paragraph of Section 6-02.3(17)K is revised to read as follows:

6-02.3(17)K.OPT1.GB6

(August 3, 2015)

Except as otherwise specified, concrete forms on all steel structures shall be removable and shall not remain in place. Where needed, the forms shall have openings for truss or girder members. Each opening shall be large enough to leave at least 1-1/2 inches between the concrete and steel on all sides of the steel member after the forms have been removed. Unit contract prices cover all costs related to these openings.

Permanent metal forms may be used to form that portion of the concrete slab inside the webs of the steel box girders, subject to the following requirements:

1. Metal forms shall be 18 gage minimum thickness, zinc coated, steel sheet conforming to ASTM A 653 Coating Designation G 210. All accessories shall conform to ASTM A 36 or Section 9-06.1 with a zinc coating of 2.0 ounces per square foot.

2. Forms shall be designed by the Contractor to support the plastic concrete, metal forms, steel reinforcing bars, and a construction live load of 60 pounds per square foot. Deflection of the metal form shall

not exceed 1/360 of the span. Camber of the metal form shall not exceed the anticipated deflection. The working unit stress shall not exceed 0.725 of the specified yield strength of the metal form material.

3. The metal forms shall provide for the full depth of the deck slab above the uppermost portions of the form. Bottom transverse steel reinforcing bars of the deck slab shall be at least 1 inch clear of the metal forms at all points. Forms or supports shall not be welded to girder flanges.

4. The bridge deck concrete shall be placed continuously between the transverse construction joints shown in the Plans, except in an emergency when the Engineer authorizes an interruption in the concrete placement. In such an emergency, the Contractor shall construct a transverse joint at the bottom of a flute and shall field drill 1/4 inch weep holes through the metal form at 12 inch centers along the line of the joint.

5. All zinc coating on exposed metal form damaged or removed during construction shall be repaired with one coat of paint conforming to Section 9-08.1(2)B, two mils minimum dry film thickness.

6. Should the Engineer determine that inspection of the underside of the hardened slab is warranted, the Contractor shall remove at least one section of metal form in each span at no extra cost to the Contracting Agency. If excessive honeycomb or other defects are found, the Contractor shall, if required by the Engineer, remove additional form sections at no additional expense to the Contracting Agency, and shall revise concrete placing methods as required to produce sound concrete. All unacceptable concrete shall be removed or repaired.

7. Complete layout, details, and a description of materials, for the permanent metal forms shall be included in the Contractor's falsework and formwork submittal as specified in Section 6-02.3(16).

8. No adjustment will be made to the lump sum contract price for "Bridge Deck - ____" for additional quantities of materials required because of the use of the permanent forms.

6-02.3(18).GR6

***Placing Anchor Bolts***

6-02.3(18).INST1.GR6

Section 6-02.3(18) is supplemented with the following:

6-02.3(18).OPT1.GR6

**(January 3, 2011)**

**Resin Bonded Anchors**

The embedment depth of the anchors shall be as specified in the Plans. If the embedment depth of the anchor is not specified in the Plans then the embedment depth shall be as specified in the table of minimum and maximum torque below.

The anchors shall be installed in accordance with the resin manufacturer's written procedure.

Holes shall be drilled as specified in the Plans. Holes may be drilled with a rotary hammer drill when core drilling is not specified in the Plans. If holes are core drilled, the sides of the holes shall be roughened with a rotary hammer drill after core drilling.

Holes shall be prepared in accordance with the resin manufacturer's recommendations and shall meet the minimum requirements as specified herein. Holes drilled into concrete shall be thoroughly cleaned of debris, dust, and laitance prior to installing the threaded rod and resin bonding material. Holes shall not have any standing liquid at the time of installation of the threaded anchor rod.

The anchor nuts shall be tightened to the following torques when the embedment equals or exceeds the minimum embedment specified.

| Anchor Diameter (inch) | Minimum Torque (ft-lbs) | Maximum Torque (ft-lbs) | Minimum Embedment (Inch) |
|---|---|---|---|
| 3/8 | 12 | 18 | 3-3/8 |
| 1/2 | 22 | 35 | 4-1/2 |
| 5/8 | 55 | 80 | 5-5/8 |
| 3/4 | 106 | 140 | 6-3/4 |
| 7/8 | 165 | 190 | 7-7/8 |
| 1 | 195 | 225 | 9 |
| 1-1/4 | 370 | 525 | 11-1/4 |

When the anchor embedment depth is less than the minimum values specified, the anchor nuts shall be tightened to the torque values specified in the Plans, or as recommended by the resin bonded anchor system manufacturer and approved by the Engineer.

6-02.3(24).GR6

***Reinforcement***

6-02.3(24)C.GR6

**Placing and Fastening**

6-02.3(24)C.INST1.GR6

Section 6-02.3(24)C is supplemented with the following:

6-02.3(24)C.OPT1.GB6

**(September 8, 2020)**

**Drilling Holes for, and Setting, Steel Reinforcing Bar Dowels**

Where called for in the Plans, holes shall be drilled into existing concrete to the size and dimension shown in the Plans. The Contractor may use any method for drilling the holes provided the method selected does not damage the concrete and the steel reinforcing bar that is to remain. Core drilling will be required when specifically noted in the Plans.

The Contractor shall exercise care in locating and drilling the holes to avoid damage to existing steel reinforcing bars and concrete. Location of the holes may be shifted slightly with the acceptance of the Engineer in order to avoid damaging the existing steel reinforcing bars. All damage caused by the Contractor's operations shall be repaired by the Contractor in accordance with Section 1-07.13.

Steel reinforcing bars shall be set into the holes noted in the Plans with epoxy resin. The holes shall be cleaned before placing the resin.

The Contractor shall demonstrate, to the satisfaction of the Engineer, that the method used for setting the steel reinforcing bars completely fills the void between the steel reinforcing bar and the concrete with epoxy resin. Dams shall be placed at the front of the holes to confine the epoxy and shall not be removed until the epoxy has cured in the hole.

6-02.3(25).GR6

***Prestressed Concrete Girders***

6-02.3(26).GR6

***Cast-in-Place Prestressed Concrete***

6-02.3(26).INST1.GR6

The third paragraph of Section 6-02.3(26) is revised to read as follows:

6-02.3(26).OPT1.GB6

(January 4, 2010)

Before tensioning, the Contractor shall remove all side forms from the girders. The Contractor shall not release the falsework supporting the superstructure, and shall not place construction loads and other live loads on the superstructure, until the job-cured 2-inch grout cubes, fabricated in accordance with WSDOT TM 813, reach a minimum compressive strength of 800 psi in accordance with WSDOT FOP for AASHTO T 106.

6-02.4.GR6

**Measurement**

6-02.4.INST1.GR6

Section 6-02.4 is supplemented with the following:

6-02.4.OPT1.FB6

(September 8, 2020)

*** $$1$$ *** contains the following approximate quantities of materials and work:

*** $$2$$ ***

The quantities are listed only for the convenience of the Contractor in determining the volume of work involved and are not guaranteed to be accurate. The prospective bidders shall verify these quantities before submitting a bid. No adjustments other than for accepted changes will be made in the lump sum Contract price for *** $$3$$ *** even though the actual quantities required may deviate from those listed.

6-02.4.OPT3.FB6

(September 8, 2020)

"Modular Expansion Joint System___" contains the following approximate quantities of materials and work:

*** $$1$$ ***

The quantities are listed only for the convenience of the Contractor in determining the volume of work involved and are not guaranteed to be accurate. The prospective bidders shall verify these quantities before submitting a bid. No adjustments other than for accepted changes will be made in the applicable modular expansion joint system lump sum Contract price for "Modular Expansion Joint System___" even though the actual quantities required may deviate from those listed.

6-02.4.OPT8.FB6

(September 8, 2020)

Expansion joint modification contains the following approximate quantities of materials and work:

*** $$1$$ ***

The quantities are listed only for the convenience of the Contractor in determining the volume of work involved and are not guaranteed to be accurate. The prospective bidders shall verify these quantities before submitting a bid. No adjustments other than for accepted changes will be made in the lump sum Contract price for "Expansion Joint Modification___" even though the actual quantities required may deviate from those listed.

6-02.4.OPT24.GB6

(August 6, 2012)

Epoxy crack sealing will be measured by the linear foot along the sealed crack at the concrete surface.

6-02.4.OPT26.GB6

(June 26, 2000)

Modify bridge drain will be measured per each for each bridge drain modified.

6-02.4.OPT27.GB6

(June 26, 2000)

Plugging existing bridge drain will be measured per each for each bridge drain plugged.

6-02.4.OPT32.GB6

(April 6, 2015)

Core drilled bridge deck drain will be measured per each for each bridge deck drain core drilled and completed with a PVC pipe sleeve.

6-02.4.OPT43.GB6

(April 6, 2015)

Longitudinal seismic restrainer will be measured per each.

6-02.4.OPT44.FB6

(September 8, 2020)

Seismic retrofit contains the following approximate quantities of materials and work:

*** $$1$$ ***

The quantities are listed only for the convenience of the Contractor in determining the volume of work involved and are not guaranteed to be accurate. The prospective bidders shall verify these quantities before submitting a bid. No adjustments other than for accepted changes will be made in the lump sum Contract price for "Seismic Retrofit - _____" even though the actual quantities required may deviate from those listed.

6-02.4.OPT45.FB6
(September 8, 2020)
Column jacketing contains the following approximate quantities of materials and work:

*** $$1$$ ***

The quantities are listed only for the convenience of the Contractor in determining the volume of work involved and are not guaranteed to be accurate. The prospective bidders shall verify these quantities before submitting a bid. No adjustments other than for accepted hanges will be made in the lump sum Contract price for "Column Jacketing - _____" even though the actual quantities required may deviate from those listed.

6-02.5.GR6
## Payment

6-02.5.INST3.GR6
The fifth and sixth bid items under Section 6-02.5 are supplemented with the following:

6-02.5.OPT20.GB6
(April 6, 2015)
The contract quantity specified for "Steel Reinf. Bar for Bridge" includes the quantity for the epoxy-coated steel reinforcing bars located in the substructure of the bridge(s) included in this project.

6-02.5.INST4.GR6
Section 6-02.5 is supplemented with the following:

6-02.5.OPT26.FB6
(August 2, 2010)
"Bridge Deck - _____", lump sum.
The lump sum contract price for "Bridge Deck - _____" shall be full pay for constructing the reinforced concrete portions of the steel bridge superstructure, including *** $$1$$ ***.

6-02.5.OPT33.GB6
(April 6, 2015)
"Expansion Joint Modification ___", lump sum.

6-02.5.OPT49.GB6
(August 1, 2011)
"Epoxy Crack Sealing", per linear foot.

Payment for taking and submitting cores to the Engineer for testing, as specified by the Engineer, will be by force account in accordance with Section 1-09.6. For the purpose of providing a common Proposal for all Bidders, the Contracting Agency has entered an amount for the item “Force Account Epoxy Crack Sealing Cores” in the bid proposal to become a part of the total bid by the Contractor.

6-02.5.OPT51.GB6
(June 26, 2000)
“Modify Bridge Drain”, per each.

6-02.5.OPT52.GB6
(June 26, 2000)
“Plugging Existing Bridge Drain”, per each.

6-02.5.OPT53.FB6
(June 26, 2000)
All costs in connection with *** $$1$$ *** bridge drains as specified shall be included in the unit contract price per square yard for *** $$2$$ ***.

6-02.5.OPT58.GB6
(April 6, 2015)
“Core Drilled Bridge Deck Drain”, per each.

6-02.5.OPT59.FB6
(April 6, 2015)
All costs in connection with constructing the core drilled bridge deck drains as specified shall be included in the ***$$1$$***.

6-02.5.OPT71.GB6
(April 6, 2015)
“Longitudinal Seismic Restrainer”, per each.

6-02.5.OPT72.GB6
(April 6, 2015)
“Seismic Retrofit - _____”, lump sum.

6-02.5.OPT73.GB6
(April 6, 2015)
“Column Jacketing - _____”, lump sum.

6-02.5.OPT91.FB6
***(June 26, 2000)***
***Bridge and Structures Minor Items***
For the purpose of payment, such bridge and structures items as *** $$1$$ *** etc., for which there is no pay item included in the proposal, are considered as bridge and structures minor items. All costs in connection with furnishing and installing these bridge and structures minor items as shown and noted in the Plans and as outlined in these specifications and in the Standard Specifications shall be included in the *** $$2$$ ***

6-02.5.OPT92.FB6

***(June 26, 2000)***

***Bridge Supported Utilities***

All costs in connection with placing *** $$1$$ *** through the superstructure of *** $$2$$ *** as shown in the Plans, including all *** $$3$$ ***, shall be included in the *** $$4$$. ***

6-02.5.OPT93.GB6

(June 26, 2000)

No additional compensation will be made by reason of any delay or other expense to the Contractor caused by coordination with the utility company or by installing utility company furnished items. However, any unavoidable delays to the Contractor caused by coordination with the utility company or resulting from installing utility company furnished items will be adjusted in accordance with Section 1-08.8.

Page Intentionally Left Blank

6-05.GR6

## Piling

6-05.2.GR6

## Materials

6-05.2.INST1.GR6

Section 6-05.2 is supplemented with the following:

6-05.2.OPT1.GB6

***(April 6, 2015)***

***Micropiles***

Materials for micropiles shall consist of the following:

Admixtures for grout shall conform to Section 9-23.6. Admixtures that control bleed, improve flowability, reduce water content, and retard set may be used in the grout, subject to the review and acceptance of the Engineer. Admixtures shall be compatible with the grout and mixed in accordance with the manufacturer's recommendations. Accelerators are not permitted. Admixtures containing chlorides are not permitted.

All cement shall be Portland cement conforming to Section 9-01.2(1).

Centralizers and spacers shall be fabricated from schedule 40 PVC pipe or tube, steel. Wood shall not be used. Centralizers and spacers shall be securely attached to the reinforcement; sized to position the reinforcement within 3/8 inch of plan location from center of micropile; sized to allow grout tremie pipe insertion to the bottom of the drillhole; and sized to allow grout.to freely flow up the drillhole and casing and between adjacent reinforcing bars.

Encapsulation (double corrosion protection) shall be shop fabricated using high-density, corrugated polyethylene tubing conforming to the requirements of AASHTO M 252 with a nominal wall thickness of 1/32 inch. The inside annulus between the reinforcing bars and the encapsulating tube shall be a minimum of 1/4 inch and be fully grouted with grout as defined below.

Epoxy coating shall conform to Section 9-07.3. Bearing plates and nuts encased in the micropile concrete footing need not be epoxy coated.

Fine aggregate for sand-cement grout shall be sand conforming to AASHTO M 45.

Grout shall be a neat cement or sand/cement mixture with a minimum seven day compressive strength of 4,000 psi in accordance with Section 9-20.3(4).

Steel pipe casing for micropiles shall have the diameter and at least the minimum wall thickness shown in the Working Drawings. Steel pipe casing shall conform to one of the following:

1. ASTM A 252, Grade 2 or 3. If the casing is to be welded, the carbon equivalency (CE) as defined in AWS D 1.1, Section XI 5.1, shall not exceed 0.45, and the sulfur content shall not exceed 0.05 percent.

2. API 5L Grade X52 or better.

3. API 5CT Grade N80 or better.

4. Another equivalent steel pipe specification acceptable to the Engineer.

The manufacturer or fabricator of steel piling shall furnish a certificate of compliance in accordance with Section 1-06.3 stating that the piling being supplied conforms to these specifications. The certificate of compliance shall include test reports for tensile and chemical tests. Samples for testing shall be taken from the base metal, steel, coil or from the manufactured or fabricated piling. The certificate of compliance shall be in English units. As an alternative to steel pipe with mill certificate of compliance documentation, new structural grade or mill secondary steel pipe may be furnished for micropile casing without certified mill test reports under the following conditions:

1. The steel pipe shall meet or exceed the mechanical requirements of API 5L Grade X52 or better or API 5CT Grade N80 or better.

2. The CE shall not exceed 0.45 and the sulfur content shall not exceed 0.05 percent, if welding of the casing is required.

3. Two unique coupon tests with reports, conforming to ASTM A 370, including Annex A2, shall be provided for each truckload of pipe supplied.

4. The pipe shall be free of defects (dents, cracks, and tears).

The alternate testing for non-mill certified steel pipe is not permitted if domestic steel is required for the project.

Welded circumferential joints in pipe shall develop the strength of the pipe section. Threaded pipe joints shall develop at least the nominal resistance used in the design of the micropile.

Structural steel plates and shapes for micropile top attachments shall conform to either ASTM A 36 or ASTM A 572 Grade 50.

Reinforcing steel shall be deformed bars in accordance with Sections 9-07.4 or 9-07.11. When a bearing plate and nut are required to be threaded onto the top end of reinforcing bars for the micropile top to footing anchorage, the threading may be continuous spiral deformed ribbing provided by the bar deformations or may be cut into a reinforcing bar. If threads are cut into a reinforcing bar, the next larger bar number designation from that shown on the Plans shall be provided, at no additional cost to the Contracting Agency. Reinforcing bars for micropiles shall be epoxy coated in accordance with Section 6-02.3(24)H and 9-07.3.

Bar tendon couplers, if required, shall develop the ultimate tensile strength of the bars.

6-05.3.GR6

## Construction Requirements

6-05.3.INST1.GR6

Section 6-05.3 is supplemented with the following:

6-05.3.OPT1.FB6

***(~~September 8, 2020~~October 3, 2022)***

## *Micropiles*

### General Requirements

The Contractor is responsible for the design, installation and testing of micropiles and micropile top attachments for this project. The Contractor shall select the micropile type, size, micropile top attachment, installation means and methods, shall estimate the ground-to-grout bond value, and shall determine the required grout bond length and final micropile diameter. The Contractor shall design and install micropiles that will develop the load capacities specified in the Plans. The micropile load capacities shall be verified by verification and proof load testing, and shall meet the test acceptance criteria specified in this Special Provision.

### Contractor's Experience Requirements and Submittal

The micropile Contractor shall be experienced in the construction and load testing of micropiles and have successfully constructed at least three projects in the last five years involving construction totaling at least 50 micropiles of equal or greater capacity than required for this project. The Contractor shall submit construction details, structural details and load test results for at least three previous successful micropile load tests from different projects of similar scope to this project.

The micropile Contractor shall design the micropile system. The micropile system shall be designed by a Professional Engineer, licensed under Title 18 RCW State of Washington, with experience in the design and construction of at least three successfully completed micropile projects over the past five years, with micropiles of equal or greater capacity than required in these plans and specifications. The on-site foremen and drill rig operators shall also have experience on at least three projects over the past five years installing micropiles of equal or greater capacity than required for this project.

The Contractor shall submit a Type 2 Working Drawing consisting of the completed project reference list, including a brief project description with the owner's name and current phone numbers. This Working Drawing submittal shall also include a personnel list for the micropile system designer, supervising Engineer, drill rig operators and on-site foremen to be assigned to the project. The personnel list shall contain a summary of each individual's experience and be complete enough for the Engineer to determine whether each individual satisfies the required qualifications.

### Definitions

*Alignment Load* (AL): A minimum initial load (5 percent FDL) applied to micropile during testing to keep the testing equipment correctly positioned.

*Factored Design Load* (FDL): The factored design load expected to be applied to the micropile. The factored design load (FDL) is as specified in the bridge Plans.

*Maximum Test Load*: The maximum load to which the micropile is subjected during testing. The load shall be 1.5 *x* FDL for verification load tests and 1.0 *x* FDL for proof load tests.

*Proof Load Test*: Incremental loading of a production micropile, recording the total movement at each increment.

*Verification Load Test*: Non-production micropile load test performed to verify the design of the micropile system and the construction methods proposed, prior to installation of production micropiles.

**Micropile Design Requirements**

The micropiles shall be designed to meet the specified loading conditions, as shown in the Plans. The Contractor shall design the micropiles, and the micropile top to footing connections using the Load and Resistance Factor Design (LRFD) method.

Steel pipe used for micropile permanent casing shall incorporate an additional 1/16 inch thickness of sacrificial steel for corrosion protection. Where required as shown in the Plans, corrosion protection of the internal steel reinforcing bars, consisting of encapsulation (double corrosion protection), epoxy coating, or grout, shall be provided in accordance with Section 6-05.2 as supplemented in these Special Provisions. Where permanent casing is used for a portion of the micropile, encapsulation shall extend at least five feet into the casing.

**Micropile Design Submittals**

The Contractor shall submit Type 3E Working Drawings consisting of complete design calculations and working drawings with all details, dimensions, quantities, ground profiles, and cross-sections necessary to construct the micropile structure. The Contractor shall verify the limits of the micropile structure and ground survey data before preparing the detailed working drawings.

**Design Calculations**

Design calculations shall include the following items:

1. A written summary report which describes the overall micropile design and its compatibility with the anticipated subsurface conditions as described by the contract test hole boring logs, the Summary of Geotechnical Conditions provided in the Appendix to the Special Provisions, and the geotechnical report(s) prepared for this project.

2. Applicable code requirements and design references.

3. Micropile structure critical design cross-section(s) geometry including soil strata and piezometric levels and location, magnitude and direction of design applied loadings, including slope or external surcharge loads.

4. Design criteria including, soil shear strengths (friction angle and cohesion), unit weights, and ground-to-grout bond values and micropile drillhole diameter assumptions for each soil strata.

5. Load and resistance factors (for Load and Resistance Factor Design) used in the design of the ground-to-grout bond values, the ground-to-grout bond length, surcharges, soil/rock and material unit weights, steel, grout, and concrete materials.

   The bond zone for micropiles shall be below the following elevations:

   *** $$1$$ ***

6. Design calculation sheets with the project number, micropile structure location, designation, date of preparation, initials of designer and checker, and page number at the top of each page. An index page shall be included with the design calculations.

7. Design notes including an explanation of any symbols and computer programs used in the design.

8. Other design calculations as required.

**Working Drawings**

The Contractor shall submit Type 3E Working Drawings.

The working drawings shall include all information required for the construction and quality control of the piling. Working drawings shall include the following items:

1. A plan view of the micropile structure identifying:

    a. A reference baseline and elevation datum.

    b. The offset from the construction centerline or baseline to the face of the micropile structure at all changes in horizontal alignment.

    c. Beginning and end of micropile structure stations.

    d. Right-of-way and permanent or temporary construction easement limits, location of all known active and abandoned existing utilities, adjacent structures or other potential interference. The centerline of any drainage structure or drainage pipe behind, passing through, or passing under the micropile structure.

    e. Subsurface exploration locations shown on a plan view of the proposed micropile structure alignment with appropriate reference base lines to fix the locations of the explorations relative to the micropile structure.

2. An elevation view of the micropile structure(s) identifying:

    a. Elevation view showing micropile locations and elevations; vertical and horizontal spacing; batter and alignment and the location of drainage elements (if applicable).

    b. Existing and finish grade profiles both behind and in front of the micropile structure.

3. Design parameters and applicable codes.

4. General notes for constructing the micropile structure including the overall construction sequence, micropile installation sequence, means and methods to prevent damage to existing adjacent piles and micropiles, installation tolerances, and other special construction requirements.

5. Start date and time schedule and micropile installation schedule providing the following:

    Micropile number
    Micropile Factored Design Load
    Type and size of reinforcing steel
    Type and size of steel casing
    Minimum total bond length
    Total micropile length
    Micropile top attachment

6. Micropile structure typical sections including micropile spacing and inclination; minimum drill hole diameter; pipe casing and reinforcing bar sizes and details; splice types and locations; centralizers and spacers; grout bond zone and casing plunge lengths and corrosion protection details; and connection details to the substructure footing, anchorage, plates, etc.

7. A typical detail of verification and production proof test micropiles defining the micropile length, minimum drill hole diameter, inclination, and load test bonded and unbonded test lengths.

8. Details, dimensions, and schedules for all micropiles, casing and reinforcing steel, including reinforcing bar bending details.

9. Details and dimensions for micropile structure appurtenances such as barriers, coping, drainage gutters, fences, etc. (if applicable).

10. Details for constructing micropile structures around drainage facilities (if applicable).

11. Details for terminating micropile structures and adjacent slope construction (if applicable).

When plan dimensions are changed due to field conditions or for other reasons, the Contractor shall submit revised Type 3E Working Drawings, including supporting design calculations. Within 30 days after completion of the work, the Contractor shall submit as-built drawings to the Engineer, conforming to the requirements specified for Type 3E Working Drawings in Section 1-05.3.

**Construction Submittals**

The Contractor shall submit Type 2E Working Drawings consisting of the following for the micropile system or systems to be constructed:

1. Discussion of how the Contractor's construction methods accommodate and are compatible with the anticipated subsurface conditions as described in the contract test hole boring logs, the Summary of Geotechnical Conditions provided in the Appendix to the Special Provisions, and the geotechnical report(s) prepared for this project.

2. If welding of casing is proposed, the Contractor shall submit the proposed welding procedure in accordance with Section 6-03.3(25).

3. Manufacturer's information, model, size, and type of equipment to be used for installing micropiles, with appropriate manufacturer's literature for review. Include detailed description of the drilling equipment and methods proposed to be used to provide drillhole support and prevent detrimental ground movements.

4. Information on headroom and space requirements for installation equipment that verify the proposed equipment can perform at the site. Plan describing how surface water, drill flush, and excess waste grout will be controlled, contained, collected, and disposed of.

5. Certified mill test reports for the reinforcing steel and certified mill test reports or independent test reports for non-mill certified steel casing used in micropile installation. The ultimate strength, yield strength, elongation, and material properties composition shall be included.

6. Grouting Plan. The plan shall include complete descriptions, details, and supporting calculations for the following:

    a. Grout mix design and type of materials to be used in the grout including certified test data and trial batch reports.

    b. Grouting equipment, including capacity and relation to the grouting demand and working conditions as well as provisions for back-up equipment and spare parts.

    c. Types and sizes of grout hoses, connections, and grout delivery systems.

    d. Methods and equipment for placing, positioning, and supporting the steel pipe casing and reinforcing bars. Centralizers and spacers shall permit the free flow of grout without misalignment of the reinforcing bar(s) and permanent casing.

    e. Methods and equipment for accurately monitoring and recording the grout depth, grout volume and grout pressure as the grout is being placed. The Contractor shall estimate the grout take. There will be no extra payment for grout overruns.

    f. Procedures and schedules for grout batching, mixing, and pumping including provisions for handling drilling fluid and for post grouting.

    g. Grouting rate calculations, when requested by the Engineer. The calculations shall be based on the initial pump pressures or static head on the grout and losses throughout the placing system, including anticipated head of drilling fluid to be displaced.

    h. Contingency procedures for handling blockage of ducts or equipment breakdowns.

i. Estimated curing time for grout to achieve specified strength. During production, grout shall be tested in accordance with the **Grout Testing** subsection of this Special Provision.

j. Procedure and equipment for Contractor monitoring of grout quality.

7. Detailed plans for the proposed micropile load testing method. This shall include all drawings, details, and structural design calculations necessary to describe the proposed test method, reaction load system capacity and equipment setup, types and accuracy of apparatus to be used for applying and measuring the test loads and micropile top movements in accordance with the **Micropile Load Tests** subsection of this Special Provision.

8. Calibration reports and data for each test jack, pressure gauge and master pressure gauge and electronic load cell to be used. The calibration tests shall have been performed by an independent testing laboratory within 90 calendar days of the date submitted.

9. Discussion of the Contractor's contingency plan if a verification load test or a proof load test fails.

**Pre-construction Meeting**

A pre-construction meeting will be scheduled by the Engineer and held prior to the start of micropile construction. The prime Contractor, micropile specialty Contractor, and excavation Contractor shall attend the meeting. The pre-construction meeting will be conducted to clarify the construction requirements for the work, to coordinate the construction schedule and activities, and to identify contractual relationships and delineation of responsibilities amongst the prime Contractor and the various ~~S~~subcontractors - specifically those pertaining to excavation for micropile structures, anticipated subsurface conditions, micropile installation and testing, micropile structure survey control and site drainage control.

**Site Drainage Control**

The Contractor shall control and properly dispose of drill flush and construction related waste, including excess grout, in accordance with Section 1-07.5(3) as supplemented in these Special Provisions and all applicable local codes and regulations. The Contractor shall provide positive control and discharge of all surface water that will affect construction of the micropile installation. The Contractor shall maintain all pipes or conduits used to control surface water during construction. The Contractor shall repair damage caused by surface water in accordance with Section 1-07.13. Upon substantial completion of the work, the Contractor shall remove surface water control pipes or conduits from the site. Alternatively, with the concurrence of the Engineer, pipes or conduits that are left in place may be fully grouted and abandoned or left in a way that protects the structure and all adjacent facilities from migration of fines through the pipe or conduit and potential ground loss.

**Excavation**

The Contractor shall coordinate the work and the excavation so the micropile structures are safely constructed. The Contractor shall perform the micropile construction and related excavation in accordance with the Plans and approved submittals.

**Micropile Allowable Construction Tolerances**

The centerline of piling shall not be more than 3 inches from indicated plan location.

The pile-hole alignment of vertical micropiles shall be plumb within 2 percent of total-length plan alignment. The pile-hole alignment of micropiles inclined up to 1:6 shall be within 4-percent of plan alignment. The pile-hole alignment of micropiles inclined greater than 1:6 shall be within 7-percent of plan alignment.

The top elevation of micropile shall be ± 1 inch maximum from vertical elevation indicated.

The centerline of reinforcing steel shall not be more than 1/2 inch from indicated location.

**Drilling**

The drilling equipment and methods shall be suitable for drilling through the conditions to be encountered, without causing damage to any overlying or adjacent structures or services. The drill hole shall be open along its full length to at least the design minimum drill hole diameter prior to placing grout and reinforcement. Temporary casing or other approved method of micropile drill hole support will be required in caving or unstable ground to permit the micropile shaft to be formed to the minimum design drill hole diameter. The Contractor's proposed method(s) to provide drill hole support and to prevent ground movements shall have received the concurrence of the Engineer. Use of drilling fluid containing bentonite is not allowed.

**Ground Heave or Subsidence**

During construction, the Contractor shall observe the conditions in the vicinity of the micropile construction site on a daily basis for signs of ground heave or subsidence. The Contractor shall immediately notify the Engineer if signs of movements are observed. The Contractor shall immediately suspend or modify drilling or grouting operations if ground heave or subsidence is observed, if the micropile structure is adversely affected, or if adjacent structures are damaged from the drilling or grouting. If the Engineer determines that the movements require corrective action, the Contractor shall take corrective actions necessary to stop the movement or perform repairs.

When due to the Contractor's methods or operations or failure to follow the specified/approved construction sequence, the costs of providing corrective actions will be borne by the Contractor in accordance with Section 1-07.13.

**Pipe Casing and Reinforcing Bars Placement and Splicing**

Reinforcement may be placed either prior to grouting or placed into the grout-filled drill hole before temporary casing (if used) is withdrawn. Reinforcement surface shall be free of deleterious substances such as soil, mud, grease or oil. Micropile cages and reinforcement groups, if used, shall be sufficiently robust to withstand the installation and grouting process and the withdrawal of the drill casings without damage or disturbance. Grout shall provide one inch minimum cover over bare or epoxy coated bars (1/4-inch on bar couplers) or 1/2 inch minimum cover over the encapsulation of encapsulated bars.

The Contractor shall check micropile top elevations and adjust all installed micropiles to the planned elevations.

Permanent casing, if specified, shall be installed to the minimum tip elevations shown in the Plans.

Centralizers and spacers shall be provided at 10 feet centers maximum spacing. The upper and lower most centralizer shall be located a maximum of 5 feet from the top and bottom of the micropile. The central reinforcement bars with centralizers shall be lowered into the stabilized drill hole and set. The reinforcing steel shall be inserted into the drill hole to the desired depth. Bars shall not be driven or forced into the hole. The Contractor shall re-drill and reinsert reinforcing steel when necessary to facilitate insertion.

Lengths of casing and reinforcing bars to be spliced shall be secured in proper alignment and in a manner to avoid eccentricity or angle between the axes of the two lengths to be spliced. Splices and threaded joints shall meet the requirements of Section 6-05.2 as supplemented in these Special Provisions. Threaded pipe casing joints shall be located at least two casing diameters (OD) from a splice in any reinforcing bar. When multiple bars are used, bar splices shall be staggered at least one foot.

**Grouting**

Micropiles shall be primary grouted the same day the load transfer bond length is drilled. The Contractor shall complete the load transfer bond length drilling and primary grouting of a micropile before beginning work on another micropile in the same footing or pile cap.

Prior to grouting, the drill hole shall be flushed with water and/or air to remove drill cuttings.

The grouting equipment shall be colloidal mixers only and shall produce a grout free of lumps and undispersed cement. Contractor shall have means and methods of measuring the grout quantity and pumping pressure during the grouting operations. The grout pump shall be equipped with a pressure gauge to monitor grout pressures. A second pressure gauge shall be placed at the point of injection into the micropile top. The pressure gauges shall be capable of measuring pressures of 150 psi or twice the actual grout pressures used, whichever is greater. The grout shall be kept in agitation prior to mixing. Grout shall be placed within one hour of mixing. The grouting equipment shall be sized to enable each micropile to be grouted in one continuous operation.

The grout shall be injected from the lowest point of the drill hole and injection shall continue until uncontaminated grout flows from the top of the micropile. The grout may be pumped through grout tubes, casing, hollow-stem augers, or drill rods. Temporary casing, if used, shall be extracted in stages ensuring that after each length of casing is removed the grout level is brought back up to the ground level before the next length is removed. Additional grout shall be placed by the use of a tremie pipe at all times. The tremie pipe shall always extend below the level of the existing grout in the drill hole. The grout pressures and grout takes shall be controlled to prevent excessive heave or fracturing of rock or soil formations. Upon completion of grouting, the grout tube may remain in the hole, but must be filled with grout.

If the Contractor elects to use a postgrouting system, working drawings and details shall be submitted to the Engineer for review in accordance with the **Construction Submittals** subsection of this Special Provision.

**Grout Testing**

Grout within the micropile verification and proof test micropiles shall attain the minimum specified seven day design compressive strength prior to load testing. During placement of initial verification micropiles, proof test micropiles, and production micropiles, micropile grout will be sampled and tested by the Engineer for compressive strength in accordance with WSDOT Test Method 813 and AASHTO T 106 at a frequency of no less than one set of three 2 inch grout cubes from each grout plant each day of operation or per every 10 micropiles, whichever occurs more frequently. The compressive strength will be the average of the 3 cubes tested. The Contractor is responsible for sampling and testing additional grout cubes as necessary for early breaks prior to verification and proof testing.

If a compressive strength test fails, the Engineer may require the Contractor to proof test some or all of the production micropiles installed since the last grout batch that met the specified compressive strength.

Grout consistency, as measured by grout density, shall be tested by the Contractor just prior to the start of micropile grouting in accordance with API RP-13B-1 at a frequency of at least one test per micropile. For the grout to be approved for use, the specific gravity reported by the test shall be between 1.8 and 1.9. The Contractor's grout consistency test equipment shall be calibrated by an independent testing laboratory. The Contractor shall not use test equipment greater than 180-calendar days past the most recent calibration date, until such equipment is recalibrated by an independent testing laboratory.

**Micropile Installation Records**

The Contractor shall prepare and submit Type 1 Working Drawings consisting of full-length installation records for each micropile installed, including all grout volumes, pressures, and installation methods used. The records shall be submitted no later than the end of each work week and within 24 hours after all micropile installation is completed. The data shall be recorded in the micropile installation log. A separate log shall be provided for each micropile.

**Micropile Load Tests**

The Contractor shall perform verification and proof testing of micropiles at the locations specified in this Special Provision, the Plans or as otherwise specified by the Engineer. Tests shall be performed using a tension load test in accordance with ASTM D 3689 or a compression load test in accordance with ASTM D 1143, except as modified by this Special Provision.

Completed production micropiles may be used as part of the reaction frame for proof load testing. No reaction bearing elements of the load test frame for verification and proof load testing of micropiles shall bear on existing structure elements.

**Verification Load Tests**

The Contractor shall perform pre-production verification micropile testing to verify the design of the micropile system and the construction methods proposed prior to installing anyproduction micropiles. Sacrificial verification test micropiles shall be

constructed in conformance with the Working Drawing submittal. Verification test micropiles shall be installed at the following locations:

*** $$2$$ ***

Verification load tests shall be performed to verify that the Contractor installed micropiles will meet the required compression and tension load capacities and load test acceptance criteria and to verify that the length of the micropile load transfer bond zone is adequate. The Contractor shall submit Type 2 Working Drawings consisting of the micropile verification load test results for the Engineer's acceptance prior to the installation of production micropiles.

The drilling-and-grouting method, casing length and outside diameter, reinforcing bar lengths, reinforcing bar size and strength, and depth of embedment for the verification test micropile(s) shall be identical to those specified for the production micropiles at the given locations. The verification test micropile structural steel sections shall be sized to safely resist the maximum test load.

The jack, bearing plates, and stressing anchorage shall be positioned at the beginning of the test such that unloading and repositioning during the test will not be required.

**Testing Equipment and Data Recording**

Testing equipment shall include dial gauges, dial gauge support, jack and pressure gauge, electronic load cell, and a reaction frame. The load cell is required only for the creep test portion of the verification test. The Contractor shall provide a description of test setup and jack, pressure gauge and load cell calibration curves in accordance with the **Working Drawings** subsection of this Special Provision. Additionally, the Contractor shall not use test jacks, pressure gauges and master pressure gauges, and electronic load cells greater than 90 calendar days past their most recent calibration date, until such items are recalibrated by an independent testing laboratory.

The Contractor shall design the testing reaction frame to be sufficiently rigid and of adequate dimensions such that excessive deformation of the testing equipment does not occur.

The Contractor shall apply and measure the test load with a hydraulic jack and pressure gauge. The pressure gauge shall be graduated in 75 psi increments or less. The jack and pressure gauge shall have a pressure range of no more than twice the anticipated maximum test pressure. Jack ram travel shall be sufficient to allow the test to be done without resetting the equipment. The Contractor shall monitor the creep test load hold during verification tests with both the pressure gauge and the electronic load cell. The Contractor shall use the load cell to accurately maintain a constant load hold during the creep test load hold increment of the verification test.

The Contractor shall measure the micropile top movement with a dial gauge capable of measuring to 1 mil (0.001 inch). The dial gauge shall have a travel sufficient to allow the test to be done without having to reset the gauge. The Contractor shall visually align the gauge to be parallel with the axis of the micropile and support the gauge independently from the jack, micropile or reaction frame. The Contractor shall

use two dial gauges when the test setup requires reaction against the ground or single reaction micropiles on each side of the test micropile.

The required load test data shall be recorded by the Contractor.

**Verification Test Loading Schedule**

The Contractor shall test the verification micropiles to a maximum test load of 1.5 times the micropile Factored Design Load shown in the Plans. The verification micropile load tests shall be made by incrementally loading the micropile in accordance with the following cyclic load schedule:

AL = Alignment Load FDL = Factored Design Load

| LOAD | HOLD TIME |
|---|---|
| AL | 1 minute |
| 0.075 FDL | 4 minutes |
| 0.150 FDL | 4 minutes |
| 0.225 FDL | 4 minutes |
| 0.300 FDL | 4 minutes |
| 0.375 FDL | 4 minutes |
| AL | 1 minute |
| 0.150 FDL | 1 minute |
| 0.300 FDL | 1 minute |
| 0.375 FDL | 1 minute |
| 0.450 FDL | 4 minutes |
| 0.525 FDL | 4 minutes |
| 0.600 FDL | 4 minutes |
| 0.675 FDL | 4 minutes |
| 0.750 FDL | 4 minutes |
| AL | 1 minute |
| 0.300 FDL | 1 minute |
| 0.600 FDL | 1 minute |
| 0.675 FDL | 1 minute |
| 0.750 FDL | 1 minute |
| 0.825 FDL | 4 minutes |
| 0.900 FDL | 4 minutes |
| 1.00 FDL | 60 minutes |
| | (Creep Test Load Hold) |
| AL | 1 minute |
| 0.300 FDL | 1 minute |
| 0.600 FDL | 1 minute |
| 0.900 FDL | 1 minute |
| 0.975 FDL | 4 minutes |
| 1.050 FDL | 4 minutes |
| 1.125 FDL | 4 minutes |
| 1.200 FDL | 4 minutes |
| 1.275 FDL | 4 minutes |
| 1.350 FDL | 4 minutes |
| 1.425 FDL | 4 minutes |
| 1.500 FDL | 4 minutes |
| | (Maximum Test Load) |
| 1.200 FDL | 4 minutes |

| | |
|---|---|
| 0.900 FDL | 4 minutes |
| 0.600 FDL | 4 minutes |
| 0.300 FDL | 4 minutes |
| AL | 15 minutes |

After the hold time at each load, Micropile top movement shall be measured and recorded. The verification test micropile shall be monitored for creep at the 1.000 Factored Design Load (FDL). Micropile movement during the creep test shall be measured and recorded at 1, 2, 3, 4, 5, 6, 10, 20, 30, 50, and 60 minutes. The alignment load shall not exceed 5 percent of the FDL load. Dial gauges shall be reset to zero after the initial AL is applied.

The acceptance criteria for micropile verification load tests are:

1. The micropile shall sustain the first 1.000 FDL test load with no more than the following total vertical movement at the top of the micropile, relative to the position of the top of the micropile prior to testing.

*** $$3$$ ***

2. At the end of the 1.000 FDL creep test load increment, test micropiles shall have a creep rate not exceeding 0.040 inch/log cycle time (1 to 10 minutes) or 0.080 inch/log cycle time (6 to 60 minutes). The creep rate shall be linear or decreasing throughout the creep load hold period.

3. Failure does not occur at the maximum test load of 1.005 FDL. Failure is defined as a slope of the load versus deflection curve (at end of increment) exceeding 0.025 inches/kips or at which attempts to further increase the test load simply result in continued micropile movement.

The Engineer will provide the Contractor written acceptance or rejection of the verification load tests within five working days.

**Verification Test Micropile Rejection**

If a verification tested micropile fails to meet the acceptance criteria, the Contractor shall modify the design, the construction procedure, or both, and shall perform another verification test incorporating the revisions. These modifications may include modifying the installation methods, increasing the bond length, or changing the micropile type. Any modification that necessitates changes to the structure will require the Engineer's review and acceptance. Any modifications of design or construction procedures or cost of additional verification test micropiles and load testing shall be at no additional expense to the Contracting Agency. At the completion of verification testing, test micropiles shall be removed down to an elevation two feet below finished ground line, except as otherwise specified in the Plans or by the Engineer.

**Proof Load Tests**

The Contractor shall proof load test the specified number of production micropiles at locations specified by the Engineer. Additional proof tests will be required if modifications are made in the micropile installation methods subsequent to the first production micropile, or if any of the proof tests fail.

**Proof Test Loading Schedule**

Proof tests shall be conducted by incrementally loading the micropile in accordance with the following schedule:

AL = Alignment Load FDL = Factored Design Load

| LOAD | HOLD TIME |
|---|---|
| AL | 1 minute |
| 0.10 FDL | 4 minutes |
| 0.20 FDL | 4 minutes |
| 0.30 FDL | 4 minutes |
| 0.40 FDL | 4 minutes |
| 0.50 FDL | 4 minutes |
| 0.60 FDL | 4 minutes |
| 0.70 FDL | 4 minutes |
| 0.80 FDL | 4 minutes |
| 0.90 FDL | 4 minutes |
| 1.00 FDL | 10 or 60 minutes (Creep Test) |
| 0.75 FDL | 4 minutes |
| 0.50 FDL | 4 minutes |
| 0.25 FDL | 4 minutes |
| AL | 4 minutes |

Depending on performance, either a 10 minute or 60 minute creep test shall be performed at the maximum test load of 1.0067 FDL. Where the micropile top movement between 1 and 10 minutes exceeds 0.040 inch, the maximum test load shall be maintained an additional 50 minutes. Movements shall be recorded at 1, 2, 3, 5, 6, 10, 20, 30, 50 and 60 minutes. The alignment load shall not exceed 5 percent of FDL. Dial gauges shall be reset to zero after the initial AL is applied.

The acceptance criteria for micropile proof load tests are:

1. The micropile shall sustain the maximum test load of 1.00 FDL with no more than the following total vertical movement at the top of the micropile, relative to the position of the top of the micropile prior to testing.

*** $$4$$ ***

2. At the end of the 1.00 FDL creep test load increment, test micropiles shall have a creep rate not exceeding 0.040 inch/log cycle time (1 to 10 minutes) or 0.080 inch/log cycle time (6 to 60 minutes). The creep rate shall be linear or decreasing throughout the creep load hold period.

**Proof Test Micropile Rejection**

If a proof-tested micropile fails to meet the acceptance criteria, the Contractor shall proof test another micropile as selected by the Engineer. For failed micropiles the Contractor shall submit a Type 2 Working Drawing consisting of a repair procedure. For further construction of subsequent micropiles, the Contractor shall modify the design, the construction procedure, or both. These modifications may include installing replacement micropiles, incorporating failed micropiles at not more than 50 percent of the maximum load attained, post grouting, modifying installation methods,

increasing the bond length, or changing the micropile type. Any modification that necessitates changes to the structure design will require the Engineer's review and acceptance.

6-05.3(5).GR6

***Manufacture of Steel Piles***

6-05.3(5).INST1.GR6

Section 6-05.3(5) is supplemented with the following:

6-05.3(5).OPT1.GB6

**(September 8, 2020)**

**Furnishing St. Piling**

Welding for steel pipe piling shall conform to AWS D1.1/D1.1M, latest edition, Structural Welding Code, and Section 6-03.3(25), except that all weld filler metal shall be low hydrogen material selected from Table 4.1 in AASHTO/AWS D1.5M/D1.5:2020 Bridge Welding Code.

Welding and joint geometry for the seam, whether it be longitudinal or helical, shall be qualified in accordance with Clause 4, Qualification, of the AWS D1.1/D1.1M, latest edition, Structural Welding Code. In addition, charpy V-notch (CVN) testing in accordance with Clause 4, Part D, of the AWS D1.1/D1.1M, latest edition, Structural Welding Code, shall be performed. CVN testing shall include five tests at 0°F. The acceptance threshold for the five samples shall meet an average value of 20-foot-pounds CVN for the set of test coupons and a minimum value of 15-foot-pounds CVN for any individual test coupon. The Contractor may submit documentation of prior qualification to the Engineer to satisfy this requirement.

Dimensional tolerances shall conform to the material specification that the steel pipe piling is manufactured under, and, at a minimum, the following requirements:

1. Out-of-roundness shall be within 1-percent of the nominal outside diameter.

2. Deviation from a straight line, parallel to the centerline of the pile, shall not exceed 0.001 times the length of the pile.

3. The maximum radial offset of the strip/plate edges shall be 1/8-inch. The offset shall be transitioned with a taper weld and the slope shall not be less than a 1 in 2.5 taper.

4. The bead height of weld reinforcement shall not exceed 3/16-inch.

5. Misalignment of weld beads for double-sided welded pipe shall not exceed 1/8-inch.

6. The wall thickness shall not be less than 95-percent or greater than 110-percent of the specified nominal thickness.

All seams and skelp splices shall be complete penetration welds. Skelp splices in spiral welded (helical seam) pipe shall not be located within 12 inches of a girth shop or field weld.

All skelp splices shall be 100 percent radiographically or ultrasonically inspected in accordance with either API 5L Annex E Section E.4 or E.5, or Table 6.2 and Clause 6 Part E, F or G in AWS D1.1/D1.1M, latest edition, Structural Welding Code. Additionally, 10-percent of the total length of seam welds for both longitudinal and helical welded pipe, and one pipe diameter length of seam centered on any skelp splice intersection, shall be randomly inspected as specified above. If repairs are required in more than 10-percent of the welds examined, additional inspection shall be performed. The additional inspection shall be made on both sides of the repair for a length equal to 10-percent of the length of the pipe outside circumference. If repairs are required in more than 10-percent of welds examined in the second sample, 100-percent of the entire seam on the pile shall be inspected.

All seams and splices shall be 100 percent visually inspected in accordance with the acceptance criteria for statically loaded non-tubular connections in Table 6.1 of the AWS D1.1/D1.1M, latest edition, Structural Welding Code. Repairs shall conform to Section 5.26 of the AWS D1.1/D1.1M, latest edition, Structural Welding Code, using approved repair and weld procedures.

Each length of steel pipe pile shall be marked with paint stencil, no closer than six inches to the end of the pipe, with the name of the manufacturer, material specification and grade of pipe, steel heat number, nominal pipe diameter, and wall thickness.

6-05.3(6).GR6

***Splicing Steel Casings and Steel Piles***

6-05.3(6).INST1.GR6

Section 6-05.3(6) is supplemented with the following:

6-05.3(6).OPT1.GB6

**(September 8, 2020)**

**Furnishing St. Piling**

Welding for steel pipe piling shall conform to AWS D1.1/D1.1M, latest edition, Structural Welding Code, and Section 6-03.3(25), except that all weld filler metal shall be low hydrogen material selected from Table 4.1 in AASHTO/AWS D1.5M/D1.5:2020 Bridge Welding Code.

Welding and joint geometry for splices shall be qualified in accordance with Clause 4, Qualification, of the AWS D1.1/D1.1M, latest edition, Structural Welding Code. In addition, charpy V-notch (CVN) testing in accordance with Clause 4, Part D, of the AWS D1.1/D1.1M, latest edition, Structural Welding Code, shall be performed. CVN testing shall include five tests at 0°F. The acceptance threshold for the five samples shall meet an average value of 20-foot-pounds CVN for the set of test coupons and a minimum value of 15-foot-pounds CVN for any individual test coupon. The Contractor may submit documentation of prior qualification to the Engineer to satisfy this requirement.

Ends of steel pipe piling shall be prepared for splicing in accordance with AWS D1.1/D1.1M, latest edition, Structural Welding Code.

All splices shall be complete penetration groove welds using continuous backing rings of 1/4 inch minimum thickness. Tack welds shall be located in the root of the complete penetration groove weld.

Shop splices shall be 100 percent visually and ultrasonically inspected in accordance with the acceptance criteria for statically loaded non-tubular connections in Table 6.1 and the acceptance criteria in Table 6.2 in AWS D1.1/D1.1M, latest edition, Structural Welding Code. Repairs for shop and field splices shall conform to Section 5.26 of AWS D1.1/D1.1M, latest edition, Structural Welding Code, using approved repair and weld procedures.

Field splice welds and welders shall be further qualified, tested and inspected as follows:

1. Welder qualification shall be performed on sample full girth sections of steel pipe pile to be used, in the same position and using the same weld joint as for production pile splicing. At the Contractor's option, these tests may be performed on the test piles during test pile installation.

2. Weld qualification tests shall be conducted in the presence of the Contractor's CWI and a representative of the Contracting Agency.

3. Field welded test joints for welder qualification shall be inspected as specified above for shop splices.

4. Production pile field splices shall be inspected as specified above for shop splices, within the limits designated for UT inspection as shown in the Plans. All welds shall be 100 percent visually inspected. The Engineer and the Contractor's CWI reserve the right to request UT inspection of splices in any pile location.

Quality control for field welding shall be conducted by an AWS Certified Welding Inspector (CWI). The Contractor shall not begin pile splicing operations until receiving the CWI's approval of the joint fit-up. The CWI shall inspect 100 percent of all field welds in accordance with the criteria and requirements specified above. All field splices shall have received the CWI's approval prior to Engineer acceptance.

The CWI shall prepare a Type 1 Working Drawing documenting the results of the nondestructive quality control inspection of all field welds, and shall submit the report to the Engineer within five working days of the completion of the final pile splice in the project or as otherwise requested by the Engineer.

6-05.3(10).GR6

***Test Piles***

6-05.3(10).INST1.GR6

Section 6-05.3(10) is supplemented with the following:

6-05.3(10).OPT1.FB6

(March 6, 2000)

The Contractor shall furnish and drive *** $$1$$ *** test piles at the following locations or at locations designated by the Engineer:

*** $$2$$ ***

The *** $$3$$ *** test piles shall be driven in the location of permanent piles and the number of permanent *** $$4$$ *** piles required for this project has been reduced by the appropriate number.

6-05.3(11).GR6

***Driving Piles***

6-05.3(11)D.GR6

**Achieving Minimum Tip Elevation and Bearing**

6-05.3(11)D.INST1.GR6

Section 6-05.3(11)D is supplemented with the following:

6-05.3(11)D.OPT2.GB6

(August 3, 2015)

The areas where piles are to be driven are adjacent to highly developed areas. It is essential that vibration and noise resulting from pile driving be held to a minimum. Unless otherwise allowed by the Engineer, pile driving shall be done during regular daytime working hours. The Contractor shall select pile driving equipment which will minimize noise and vibration. When, in the opinion of the Engineer, noise or vibration are excessive, the Contractor will be required to use a hammer that does not exceed the minimum specifications by more than 10 percent for the type and capacity of piling being driven. If pre-boring, jetting, or other special methods are not specified elsewhere in the contract and are ordered by the Engineer to reduce noise or vibration, such change in method shall be considered a change, subject to the terms of Section 1-04.4.

6-05.3(11)D.OPT3.FB6

(August 3, 2015)

The *** $$1$$ *** piles *** $$2$$ *** shall be placed in prebored holes drilled to elevation ***$$3$$***.

The holes shall be of adequate diameter to isolate the pile from skin friction. The hole around the pile due to oversize boring shall be filled with dry sand or pea gravel after the pile is placed.

6-05.3(11)D.OPT4.FB6

(August 3, 2015)

The *** $$1$$ *** piles ***$$2$$*** shall be prebored to elevation *** $$3$$ ***.

The diameter of the preboring shall be adjusted to provide for full contact between the pile casing and the surrounding soil without shattering the soil formation. It is estimated that the required diameter for preboring will be approximately 1 inch less than the pile diameter; however, the diameter shall be adjusted by the Contractor as specified by the Engineer to accomplish the results described above. Jetting will not be permitted. The Contractor shall follow preboring immediately with the placing of the pile casing to prevent sloughing into the excavated hole.

6-05.3(11)D.OPT9.FB6

(April 6, 2015)

The Contractor is advised that overdriving is anticipated for piles driven at the following location(s):

| Location(s) | Approx. Magnitude of Overdriving Anticipated to Reach Minimum Tip Elev. |
|---|---|
| *** $$1$$ *** | *** $$2$$ *** |

The Contractor shall size the hammer and pile to accommodate overdriving of this magnitude without premature refusal or pile damage.

6-05.4.GR6

## Measurement

6-05.4.INST1.GR6

Section 6-05.4 is supplemented with the following:

6-05.4.OPT1.FB6

(March 6, 2000)

Measurement for preboring for *** $$1$$ *** pile will be per linear foot of hole drilled.

6-05.4.OPT6.GB6

(April 6, 2015)

Micropiles will be measured per each, for each micropile installed and accepted.

Micropile verification load testing will be measured per each for each successfully completed and accepted micropile verification load test.

Micropile proof load testing will be measured per each for each successfully completed and accepted micropile proof load test.

6-05.5.GR6

## Payment

6-05.5.INST1.GR6

Section 6-05.5 is supplemented with the following:

6-05.5.OPT1.FB6

(March 6, 2000)

“Preboring For ***$$1$$*** Pile”, per linear foot.

The unit contract price per linear foot for “Preboring For ***$$2$$*** Pile” shall be full pay for performing the work as specified, including removal and disposal of excavated soils from preboring, and backfilling.

6-05.5.OPT6.GB6

(April 6, 2015)

“Micropile”, per each.

The unit contract price per each for "Micropile" shall be full pay for performing the Work as specified.

“Micropile Verification Load Testing”, per each.
“Micropile Proof Load Testing”, per each.
The unit contract price per each for “Micropile Verification Load Testing” and “Micropile Proof Load Testing” shall be full pay for performing the Work as specified.

Page Intentionally Left Blank

6-07.GR6

# Painting

6-07.1.GR6

## Description

6-07.1.INST1.GR6

Section 6-07.1 is supplemented with the following:

6-07.1.OPT1.FB6

(August 3, 2009)

This work shall consist of cleaning and painting all exposed metal surfaces of Bridge No(s). *** $$1$$ ***, in accordance with Section 6-07.3(10), except as otherwise noted below.

Portions of the structure(s) excluded from this work include:

*** $$2$$ ***

6-07.1.OPT2.FB6

(August 3, 2009)

This work shall consist of cleaning and painting the exposed timber surfaces of Bridge No(s). *** $$1$$ ***, in accordance with Section 6-07.3(13) as supplemented in these Special Provisions and as specified below:

*** $$2$$ ***

6-07.3.GR6

## Construction Requirements

6-07.3(10).GR6

### *Painting Existing Steel Structures*

6-07.3(10).INST1.GR6

Section 6-07.3(10) is supplemented with the following:

6-07.3(10).OPT1.FB6

(August 3, 2009)

The Contractor *** $$1$$ *** paint the existing utility company conduits attached to the structure, such as sewer, water, gas and telephone. The Contractor shall protect the utilities from damage due to operations on the bridges.

6-07.3(10).OPT2.GB6

(August 3, 2009)

Light fixtures and lenses, including navigation, aircraft, flag pole luminaire, and luminaire light fixtures and lenses, shall not be painted and shall be kept clean from paint. The Contractor shall remove all paint from the light fixtures and lenses due to the painting operation.

~~6-07.3(10).OPT3.GB6~~

~~(August 3, 2009)~~

~~A portion of the work involved in this project is located over or near railroad facilities. The Contractor shall exercise great care in all operations in order that no interruptions or damage will occur to the railroad trains or facilities. The Contractor shall contact the Railroad Company regarding the times and the conditions under which cleaning and painting work over or adjacent to railroad tracks may be accomplished.~~

6-07.3(10).OPT4.GB6

(August 3, 2015)

In the cleaning operation, particular attention shall be paid to cleaning the grid deck. Any means acceptable to the Engineer, in addition to flushing, as required to clean dirt, oil and grease from the grid surfaces in accordance with SSPC-SP 1 shall be used.

6-07.3(10)A.GR6

**Containment**

6-07.3(10)A.INST1.GR6

Section 6-07.3(10)A is supplemented with the following:

6-07.3(10)A.OPT1.GB6

(August 3, 2009)

The Contractor shall adequately protect all gears, machinery, mechanical equipment, electrical equipment, navigation and clearance light lenses, motors, sheaves and cables and all other equipment which might become damaged by and during the cleaning and painting operations. Should the Contractor's operation foul or otherwise contaminate the lubricated surfaces, the Contractor shall, if directed by the Engineer, clean and relubricate the surfaces at the Contractor's expense.

6-07.3(10)A.OPT2.FB6

(September 7, 2021)

The following bridge(s) have a wind speed/gust threshold:

| Bridge | Wind Speed/Gust Threshold (miles per hour) |
|---|---|
| Bridge No(s). *** $$1$$ *** | *** $$2$$ *** |

Each day, the Contractor shall review the five-day wind speed/gust forecast for each bridge site from the Western Region Headquarters of the National Weather Service at www.wrh.noaa.gov. The Contractor shall lower or withdraw tarps, plastic exterior, and other containment components presenting an exposed face to the wind when either of the following apply:

1. When wind speeds or gusts exceeding the threshold are forecast by the National Weather Service.

2. When the structure site weather station records wind speeds or gusts exceeding the threshold.

The containment system may be restored after 2 hours without winds or gusts exceeding the threshold, and no forecast of such wind speeds or gusts to return within 24 hours.

**Weather Station**

Prior to installing any components of a containment system on a bridge with a specified wind speed/gust threshold, the Contractor shall install a wireless weather station on the bridge at a location acceptable to the Engineer. The Contractor shall provide one of the following wireless weather station systems, or an accepted equal:

1. Davis Instruments Vantage Pro2 model 06163.

2. Weather Hawk 916 Wireless Weather Station.

3. Columbia Weather Systems Capricom FLX.

The Contractor shall submit a Type 2 Working Drawing consisting of details of the selected wireless weather station system, including installation and operation details. The Contractor shall install wireless display console units for both the Contracting Agency's and the Contractor's use at locations acceptable to the Engineer. The Contractor shall protect the wireless weather station system from damage during all paint removal, surface cleaning, and paint application operations.

The Contractor shall maintain a log of daily weather data updated on a daily basis. The log shall be available to the Engineer for review at any time during the project. The weather data shall be tabulated in the form of a spreadsheet. At a minimum, the weather data shall indicate the high and low temperature, relative humidity, maximum wind speed and direction, wind gusts, and rainfall. If requested by the Engineer, the Contractor shall submit a Type 1 Working Drawing of weather data. Upon request, the Contractor shall provide wireless access to the weather station data.

At the end of the Contract, the wireless weather station and all associated system components shall be removed from the bridge and become the property of the Contractor.

6-07.3(10)D.GR6

**Surface Preparation Prior to Overcoat Painting**

6-07.3(10)D.INST1.GR6

Section 6-07.3(10)D is supplemented with the following:

6-07.3(10)D.OPT1.FB6

(April 6, 2015)

The following steel surfaces of Bridge No(s). *** $$1$$ *** shall receive surface preparation in accordance with SSPC SP1 followed by cleaning in accordance with this Section:

*** $$2$$ ***

6-07.3(10)E.GR6

**Surface Preparation - Full Paint Removal**

6-07.3(10)E.INST1.GR6

Section 6-07.3(10)E is supplemented with the following:

6-07.3(10)E.OPT1.FB6

(April 5, 2010)

The following steel surfaces of Bridge No(s). *** $$1$$ *** shall receive full paint removal surface preparation in accordance with this Section:

*** $$2$$ ***

6-07.3(10)I.GR6

**Paint Color**

6-07.3(10)I.INST1.GR6

Section 6-07.3(10)I is supplemented with the following:

6-07.3(10)I.OPT1.FB6

(August 3, 2009)

The color of the top coat, when dry, shall match *** $$1$$ ***.

6-07.3(10)N.GR6

**Field Coating Application Methods**

6-07.3(10)N.INST1.GR6

Section 6-07.3(10)N is supplemented with the following:

6-07.3(10)N.OPT1.GB6

(August 3, 2009)

Spray painting will be permitted for the application of paint to the surfaces of the steel grid roadway decking and steel grid catwalks, provided every precaution or means necessary to prevent any damage due to spraying operations or from wind borne paint is taken, provided further that if satisfactory results are not, in the opinion of the Engineer, obtained with the spraying application, the Contractor shall revert to the use of brushes. In the event spray painting is used on the steel grid roadway decking, the application shall be made only from the underside of the roadway, and then only at such times as traffic has been diverted to other lanes. A protective covering shall be placed immediately over areas of the roadway decking being spray painted to prevent damage from wind borne paint.

6-07.3(11).GR6

***Painting or Powder Coating of Galvanized Surfaces***

6-07.3(11).INST1.GR6

Section 6-07.3(11) is supplemented with the following:

6-07.3(11).OPT1.FB6

(August 3, 2009)

The color of the finish coat, when dry, shall match *** $$1$$ ***

6-19.GR6

## Shafts

6-19.2.GR6

## Materials

6-19.2(9-36.2(2)).GR6

### *Shaft Slurry*

**Synthetic Slurry**

Section 9-36.2(2) is supplemented with the following:

6-19.2(9-36.2(2)).OPT1.GB6

(January 2, 2012)

Salt water shall not be used with synthetic slurry for shafts. Fresh water only shall be used.

6-19.2(9-36.4).GR6

### *Access Tubes and Caps*

The first paragraph of Section 9-36.4 is revised to read:

6-19.2(9-36.4).OPT1.GR6

(October 3, 2022)

Access tubes for CSL or TIP testing shall be steel pipe of 0.145 inches minimum wall thickness and at least 1½ inch inside diameter, or shall be Sonitec V2 CSL Tubes manufactured in America by Dextra. Dextra CSL tubes shall use Dextra caps and connectors.

6-19.3.GR6

## Construction Requirements

6-19.3(3).GR6

### *Shaft Excavation*

6-19.3(3).INST1.GR6

Section 6-19.3(3) is supplemented with the following:

6-19.3(3).OPT1.GB6

(January 2, 2012)

Variations in the bearing layer elevation from that shown in the Plans are anticipated. The Contractor shall have equipment on-site capable of excavating an additional 20 percent of depth below that shown in the Plans.

6-19.3(3)B.GR6

**Temporary and Permanent Shaft Casing**

6-19.3(3)B.INST1.GR6

Section 6-19.3(3)B is supplemented with the following:

6-19.3(3)B.OPT2.GB6

(January 2, 2012)

Shaft casing shall be equipped with cutting teeth or a cutting shoe, and installed by either rotating or oscillating the casting. Installing the casing by vibratory means will not be allowed.

6-19.3(3)B4.GR6

**Temporary Telescoping Shaft Casing**

6-19.3(3)B4.INST1.GR6

The second paragraph of Section 6-19.3(3)B4 is revised to read as follows:

6-19.3(3)B4.OPT1.GB6

(January 2, 2012)

Temporary telescoping casing will not be allowed for bridge end pier shafts.

6-19.3(3)I.GR6

**Required Use of Slurry in Shaft Excavation**

6-19.3(3)I.INST1.GR6

Section 6-19.3(3)I is supplemented with the following:

6-19.3(3)I.OPT1.GB6

(August 3, 2015)

If the Contractor is utilizing casing that is adequately sealed into competent soils such that the water cannot enter the excavation, the Contractor may, with the Engineer's permission, continue excavation in wet soils without slurry provided the water level within the casing does not rise or exhibit flow.

6-19.3(4).GR6

***Slurry Installation Requirements***

6-19.3(4)A.GR6

**Slurry Technical Assistance**

6-19.3(4)A.INST1.GR6

Section 6-19.3(4)A is supplemented with the following:

6-19.3(4)A.OPT1.FB6

(January 2, 2012)

The slurry manufacturer's representative shall be present during construction and completion of the first shaft excavated at the following specific shaft sites:

*** $$1$$ ***

6-19.3(5).GR6

***Assembly and Placement of Reinforcing Steel***

6-19.3(5).INST1.GR6

Section 6-19.3(5) is supplemented with the following:

6-19.3(5).OPT1.GB6

(August 1, 2016)

For those shafts with a specified minimum penetration into the bearing layer and no specified tip elevation, the Contractor shall furnish each shaft steel reinforcing bar cage, including access tubes for non-destructive QA testing in accordance with Section 6-19.3(6), 20 percent longer than specified in the Plans. The Contractor shall add the increased length to the bottom of the cage. The Contractor shall trim the shaft steel reinforcing bar cage to the proper length prior to placing it into the excavation. If trimming the cage is required and access tubes are attached to the cage, the Contractor shall either shift the access tubes up the cage, or cut the access tubes provided that the cut tube ends are adapted to receive the watertight cap as specified.

6-19.3(6).GR6

### *Contractor Furnished Accessories for Nondestructive QA Testing*

6-19.3(6)E.GR6

**Thermal Wire and Thermal Access Points (TAPs)**

6-19.3(6)E.INST1.GR6

Section 6-19.3(6)E is supplemented with the following:

6-19.3(6)E.OPT1.GB6

(January 2, 2018)

The thermal wire and associated couplers shall be obtained from the following source:

Pile Dynamics, Inc.
30724 Aurora Road
Cleveland, OH 44139
(216) 831-6131
FAX: (216) 831-0916
www.pile.com

6-19.3(7).GR6

### *Placing Concrete*

6-19.3(7)D.GR6

**Requirements for Placing Concrete Underwater**

6-19.3(7)D.INST1.GR6

Section 6-19.3(7)D is supplemented with the following:

6-19.3(7)D.OPT1.GB6

(January 2, 2012)

The Contractor may use a tremie instead of a concrete pump, subject to the following conditions:

1. The tremie shall have a hopper at the top that empties into a watertight tube at least eight inches in diameter.

2. The discharge end of the tube on the tremie shall include a device to seal out water while the tube is first filled with concrete.

6-19.4.GR6

## Measurement

6-19.4.INST2.GR6

Section 6-19.4 is supplemented with the following:

6-19.4.OPT3.GB6

(January 2, 2012)

Fresh water for shaft slurry will be measured in accordance with Section 2-07.4.

6-19.5.GR6

## Payment

6-19.5.INST1.GR6

Section 6-19.5 is supplemented with the following:

6-19.5.OPT2.GB6

(January 2, 2012)

“Fresh Water for Shaft Slurry”, per M gal.

**DIVISION7.GR7 Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits**

**7-01.GR7 Drains**

7-01.SA1.GR7 (Media Filter Drains)
(October 3, 2022)
Use in all projects with Media Filter Drains. Media Filter Drain (MFD) is paid for by the SY and informational quantities should be provided in the Contract. MFD Details in the plans should show pay limits from the edge of shoulder to the catch point. The items, Clearing and Grubbing and Seeding, Fertilizing, and Mulching should be included as a separate pay item. For additional information, refer the Highway Runoff Manual.

~~7-06.INST1.GR7 (Section 7-06 is revised to read)~~
~~Must use once preceding any of the following:~~

~~7-06.SA1.FR7 (Temporary Stream Diversion)~~
~~(January 2, 2018)~~
~~Use in all projects that require a temporary stream diversion.~~
~~Contact the HQ Hydraulics Office for fill-in information.~~
~~If a contingency system is required, use **7-06.SA2.FR7** instead.~~
~~(1 fill-in)~~

~~7-06.SA2.FR7 (Temporary Stream Diversion with Required Contingency System)~~
~~(January 2, 2018)~~
~~Use in all projects that require a temporary stream diversion and require a contingency system to supplement the flows conveyed by the primary temporary stream diversion.~~
~~Fill-in #1: Contact the HQ Hydraulics Office for fill-in information.~~
~~Fill-in #2: The fill-in shall include the combined flow of the primary and contingency systems in cubic feet.~~
~~(2 fill-ins)~~

Page Intentionally Left Blank

7-01.GR7

# Drains

7-01.SA1.GR7

**(October 3, 2022)**

## MEDIA FILTER DRAINS

### Description

This Work shall consist of constructing media filter drains as detailed in the Plans.

### Materials

Materials shall meet the requirements of the following sections:

| | |
|---|---|
| Aggregate for Bituminous Surface Treatment | 9-03.4 |
| Crushed Surfacing Base Course | 9-03.9(3) |
| Gravel Backfill for Drains | 9-03.12(4) |
| Underdrain Pipe | 9-05.2 |
| Seed | 9-14.3 |
| Fertilizer | 9-14.4 |
| Mulch and Amendments | 9-14.5 |
| Agricultural Grade Dolomite Lime | 9-14.5(5) |
| Agricultural Grade Gypsum | 9-14.5(6) |
| Compost | 9-14.5(8) |
| Horticultural Grade Perlite | 9-14.5(9) |
| Compost Socks | 9-14.6(6) |
| Geotextile for Underground Drainage (Moderate Survivability, Drainage Class C, non-woven) | 9-33 |

#### *Media Filter Drain Mix*

Media filter drain mix shall be mixed in the following proportions: 3 cubic yards of aggregate, 1 cubic yard of horticultural grade perlite, 40 pounds of agricultural grade dolomite lime, and 12 pounds of agricultural grade gypsum. The perlite, dolomite lime, and gypsum shall not contain toxic material. Media filter drain mix shall be premixed prior to placement. The soil amendments and aggregate shall meet the following requirements prior to mixing.

##### Aggregate for Media Filter Drain Mix

Aggregate for media filter drain mix shall meet the requirements of Section 9-03.4(2), ⅜-inch to No.4., with the exception of:

- The use of recycled material is not permitted.
- The fracture requirement shall be at least two fractured faces and will apply to material retained on the No. 4 sieve in accordance with FOP for AASHTO T 335.

Acceptance of the aggregate shall be in accordance with Section 3-04.5, Table 2 for “Other” materials based on one sample every 1000 tons. Testing of aggregate shall occur prior to mixing with the soil amendments. Horticultural grade perlite, agricultural grade dolomite lime and gypsum will be accepted by catalog cut or bag label.

## Construction Requirements

### *General Requirements*

The Contractor shall construct the media filter drain in accordance with the details in the Plans. Media filter drain type work elements are shown in Table 1.

**Media Filter Drain Table 1**

| Elements of Media Filter Drain Construction | Media Filter Drain Type | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Media Filter Drain Mix | X | X | X | X | X | X | X |
| Scarification | X | X | X | X | X | X | X |
| Underdrain Pipe | X | X | | X | | X | |
| Gravel Backfill for Drains | X | X | | X | | X | |
| Geotextile for Underground Drainage | X | X | | X | | X | |
| Excavation | X | X | X | X | X | X | X |
| CSBC | | | X | | X | | X |
| Compost Blanket | X | X | X | X | X | X | X |
| Compost Sock | | | | | | X | X |
| Flow Spreader | | | | X | X | X | X |
| Gravel Backfill for Pipe Zone Bedding | | | | X | X | | |
| Non-Vegetation Zone | X | X | X | X | X | | |

The Contractor shall sequence construction of the media filter drain to ensure different sections of the media filter drain are not contaminated or displaced by other materials during installation. Once constructed, the Contractor will not be allowed to drive equipment over areas of the media filter drain.

Before excavating media filter drains, the Contractor shall clear and grub the area in accordance with Section 2-01.

### *Preparation*

Prior to placement of the compost blanket, the Contractor shall scarify the area for the grass strip to a depth of 2 to 3 inches as shown in the Plans. The application and scarifying methods shall be approved by the Engineer. The Contractor shall notify the Engineer a minimum of five working days prior to the start of compost work.

### *Excavation*

Media filter drain excavation shall conform to Section 2-09.3(4).

### *Installation*

Medium compost shall be uniformly and evenly placed as shown in the Plans.

Underdrain shall be constructed in accordance with Section 7-01.3.

Compost blanket shall be constructed in accordance with Section 8-01.3(4).

Compost sock shall be constructed in accordance with Section 8-01.3(12).

The media filter drain area shall be seeded in accordance with 8-02.3(9) after the compost blanket has been installed.

After excavation, the non-vegetation zone shall backfill as detailed in the plans. The use of recycled material is not permitted.

## Measurement

Media filter drain will be measured per square yard along the ground surface of the completed installation.

## Payment

“Media Filter Drain Type ____”, per square yard.

The unit Contract price per square yard for “Media Filter Drain Type ____” shall be full pay to furnish all labor, equipment, and materials to complete the Work as specified.

Clearing and grubbing shall be paid for in accordance with Section 2-01.5.

Seeding, Fertilizing, and Mulching will be paid for in accordance with Section 8-02.5.

Page Intentionally Left Blank

~~7-06.GR7~~
**~~Vacant~~**

~~7-06.INST1.GR7~~
~~Section 7-06 is revised to read:~~

~~7-06.SA1.FR7~~
**~~(January 2, 2018)~~**
**~~7-06 Temporary Stream Diversion~~**

**~~7-06.1 Description~~**
~~This work shall include designing, installing, operating, maintaining, removing, and disposing of the temporary stream diversion, environmental compliance and other Work as detailed in these Specifications.~~

**~~7-06.2 Materials~~**
~~All materials shall be as detailed in the Contractor's Temporary Stream Diversion (TSD) Plan.~~

**~~7-06.3 Construction Requirements~~**

***~~7-06.3(1) General~~***

~~The Work shall include compliance with Washington State Water Quality Standards in WAC 173-201A, project permits, environmental commitments, and these Provisions.~~

~~The temporary stream diversion may be either a gravity or a pumped system. Pump screens must comply with the requirements in Section 7-06.3(4) of these Special Provisions. Once a pumped diversion begins, the pump must run continuously until it is no longer necessary to bypass flows. The Contractor shall have back-up pumps on site and shall provide twenty-four hour monitoring of the pumping operation. Monitoring can be achieved by providing monitoring personnel on site or through remote sensing and instrumentation to verify operation of the bypass. If the Contractor elects to monitor by remote sensing and instrumentation, a Type 2 Working Drawing shall be submitted outlining how system operation will be monitored, how alerts will be made and how personnel will respond to a diversion system failure.~~

~~The temporary stream diversion including water that is retained by the temporary stream diversion and any dewatering system shall be located within the permitted impact areas as shown in the Plans. The upstream diversion dam shall be constructed to a height sufficient to prevent stream flow from entering the work area. Scour protection shall be provided at the outfall of the temporary stream diversion systems and dewatering system to prevent flow re-entering the stream channel from mobilizing streambed and embankment sediments. When a temporary stream diversion is located in or near an intertidal zone the temporary stream diversion design shall take tidal influence into consideration.~~

~~For each temporary stream diversion, the Contractor shall arrange a meeting with the Engineer prior to implementation of the TSD Plan. At this meeting the Contractor shall explain to the Engineer the Work to be completed for the temporary stream diversion. The meeting shall be a minimum of 7 calendar days prior to start of the temporary stream diversion work.~~

~~The TSD shall be operational prior to performing any other work below the Ordinary High Water Line.~~

### ~~*7-06.3(2) Temporary Stream Diversion Plan*~~

#### ~~7-06.3(2)A General Plan Requirements~~

~~The Contractor shall submit a Temporary Stream Diversion Plan in accordance with the requirements of a Type 2E Working Drawing and these Specifications. A separate TSD Plan shall be prepared and submitted for each temporary stream diversion that is required. The TSD Plan shall consist of a narrative and drawings detailing all temporary stream diversion requirements and shall encompass and protect all the areas affected by the Contractor's temporary stream diversion Work.~~

~~The Contractor shall fully implement the TSD Plan throughout the duration of the associated Work. The Contractor shall update the TSD Plan throughout project construction to reflect actual site conditions and the Contractor's Work. Changes to plan shall comply with WAC 196-23-020. At the request of the Engineer an updated TSD Plan shall be submitted as a Type 2E Working Drawing. A copy of the TSD Plan shall be on the project site at all times.~~

~~The TSD Plan shall describe measures that will be taken to comply with Washington State Water Quality Standards in WAC 173-201A, applicable permits, environmental commitments, and these Provisions.~~

~~The Contractor shall incorporate the Diversion Schedule and Sequence into their Progress Schedule.~~

#### ~~7-06.3(2)B Stream Flows~~

##### ~~Minimum Stream Flows~~

~~At all times of operation, the Contractor's temporary stream diversion shall be designed to convey the following minimum flow rate of water in cubic feet per second:~~

~~*** $$1$$ ***~~

~~During all phases of the bypass installation and decommissioning, the Contractor shall maintain flows downstream of the project site.~~

#### ~~7-06.3(2)C Plan Requirements~~

~~The TSD Plan shall provide the following information in the following order:~~

1. ~~Description and Location of the temporary stream diversion~~

   a. ~~Identify the name of the water body where the temporary stream diversion will be placed. Provide a description of the temporary stream diversion.~~

   b. ~~Provide drawings showing the location of the temporary stream diversion, including proposed access routes and equipment to be used to construct the diversion.~~

2. ~~Schedule and Sequence~~

~~a. Provide a sequence of Work, dates, and durations for when the following will occur, in accordance with the in-water work window in the Special Provisions:~~

~~i. Fish exclusion (performed by the Contracting Agency).~~

~~ii. TSD Plan Implementation Meeting~~

~~iii. TSD installation.~~

~~iv. Dewatering of the isolated Work area.~~

~~v. Restoration and stabilization of the temporary stream diversion Work area to prevent erosion.~~

~~vi. Any relocations of the temporary stream diversion to accommodate the Work sequence (if needed).~~

~~vii. Channel rewatering.~~

~~viii. Removal of the TSD.~~

~~ix. Fish block removal (performed by Contracting Agency).~~

~~b. Include other Work that needs to be coordinated with the TSD (e.g., temporary erosion control).~~

~~3. Calculations and Materials~~

~~a. Detail all elements of the temporary stream diversion; including but not limited to pipes, pumps, and other equipment.~~

~~b. Calculations shall demonstrate the diversion system conveys the minimum peak flow specified by the Contracting Agency and include tidal influence where applicable.~~

~~c. Temporary stream diversion shall include a water conveyance system to be used for dewatering and rewatering that is capable of conveying the flow required for the temporary stream diversion.~~

~~d. Methods for anchoring temporary stream diversion pipe and associated hardware; include calculations to demonstrate the devices ability to anchor the pipe and associated hardware.~~

~~e. Specifications for all materials and equipment to be used as part of the diversion including pump or diversion capacities and hose sizes. For example, provide the type, profile, and size of pipe.~~

~~f. Provide the size of fish screens (mesh size and surface area) to be used, in accordance with Section 7-06.3(4) of these Special Provisions.~~

~~4. Stream Flow Blocking and Dewatering~~

~~a. Provide the method(s), including locations and details (narrative and drawings) for blocking both the upstream and downstream ends of the diversion. Describe how minor leakage from upstream and downstream will be addressed.~~

~~b. Include provisions for scour protection at the temporary stream diversion outfalls.~~

~~c. Identify the means and methods for dewatering water and disposal of the water.~~

~~5. Inspection and Maintenance~~

~~a. Provide the schedule and frequency for inspection of the temporary stream diversion; include weekends and holidays.~~

~~b. Describe how maintenance will be conducted when inspections identify deficiencies in the temporary stream diversion. These include but are not limited to removal and disposal of trapped sediment or debris and repairing leaks.~~

~~c. The Contractor shall keep a record of all inspections and maintenance of the temporary stream diversion.~~

~~6. Rewatering the Stream Channel~~

~~a. Detail how the stream channel will be rewatered to comply with water quality requirements.~~

~~b. Identify measures that will prevent the stranding of fish during rewatering (i.e. describe methods, rates, and durations of the rewatering process knowing that flows downstream of the fish block must be maintained to protect fish).~~

~~7. Removal of the Temporary Stream Diversion~~

~~a. Describe the sequence that will be used for removing the temporary stream diversion and methods to prevent water quality impacts.~~

~~b. Describe how disturbed soil will be permanently stabilized.~~

~~c. Describe any temporary pipes to remain (requires approval of the Engineer): their type, pipe class, size, location, and plugging procedure.~~

~~8. Other Work required for the Contractor's temporary stream diversion~~

~~***7-06.3(3) Fish and Aquatic Species Exclusion and Notifications***~~

~~Prior to installing a temporary stream diversion, the Contractor shall allow 7 calendar days after the beginning of the in-water work window defined in the Special Provisions, in their~~

~~schedule for the Contracting Agency: (1) to install fish block nets upstream and downstream of the in-water Work area; and (2) safely capture and relocate any fish and other aquatic organisms that become trapped between the block nets. No Work within the limits of the Ordinary High Water Line will be allowed prior to installation of fish block nets and completion of fish exclusion activities.~~

~~As specified by the Engineer the Contractor shall assist the Contracting Agency with fish and aquatic species exclusion. The Contracting Agency will pay for this Work by the force account item "Fish Exclusion".~~

### ~~*7-06.3(4) Dewatering Work Area*~~

~~Dewatering the isolated in-water Work area (between the upstream and downstream diversion dams) shall occur at a rate slow enough to allow the Contracting Agency to safely capture and relocate all fish species and other aquatic organisms to avoid stranding, as determined by the Engineer.~~

~~All pumps used for dewatering shall have an intake covered with a fish screen, operated, and maintained in accordance with RCW 77.57.010 and RCW 77.57.070. Appropriate fish screens are as follows:~~

1. ~~Perforated plate: 0.094 inch (maximum opening diameter);~~

2. ~~Profile bar: 0.069 inch (maximum width opening); or~~

3. ~~Woven wire: 0.094 inch (maximum opening measured on the diagonal).~~

~~The minimum open area for all types of fish screens is twenty-seven percent. The screened intake facility must have enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. The fish screen must remain in place whenever water is withdrawn until the Contracting Agency Biologists confirm all fish have been removed. At that point, the Contractor may remove the fish screen to finish dewatering the work area.~~

### ~~*7-06.3(5) Inspection and Maintenance*~~

~~At a minimum, the Contractor shall perform the following activities once per day (including weekends and holidays):~~

1. ~~Check for and correct leaks;~~

2. ~~Ensure the fish block nets remain sealed to the channel substrate.~~

~~The fish block nets shall be kept clear of debris that could jeopardize the integrity of the nets. The Contractor shall perform the following activities a minimum of three times per day or when requested by the Engineer. On working days, these activities shall be performed at the start, middle, and at the end of the working day. On non-working days, these activities shall be performed between 6:00 am and 8:00 am, between 11:00 am and 1:00 pm, and between 4:00 pm and 6:00 pm:~~

1. ~~Inspect the upstream and downstream fish block nets and remove debris;~~

2. ~~Inspect the upstream fish block net and all screens and similar facilities for impinged fish;~~

~~a. The Contractor shall immediately notify the Contracting Agency when impinged fish are discovered.~~

~~b. Removal of impinged fish will be performed by the Contracting Agency.~~

~~The Contractor shall maintain a written record of all inspection and maintenance activities; record to be available at the request of the Engineer.~~

### ~~*7-06.3(6) Rewatering the Stream Channel*~~

~~The Contractor shall notify the Engineer a minimum of 7 calendar days in advance of rewatering the stream channel.~~

~~The Contractor shall introduce water to the new stream channel section and trap sediments until the stream section meets the requirements of these Provisions. Rewatering shall occur at a rate to avoid loss of surface water downstream while the new channel section is rewatered.~~

### ~~*7-06.3(7) Removal of the Temporary Stream Diversion*~~

~~The Contractor shall notify the Engineer two business days in advance of beginning the temporary stream diversion removal sequence.~~

~~Once the water in the new stream channel will meet the applicable turbidity standards the Contractor may begin removal of the temporary stream diversion and the stream channel opened to flows.~~

~~The Contractor shall immediately take all corrective actions necessary to prevent the water from exceeding the turbidity standards should the stream turbidity increase. All Work within the channel, except for removal of the temporary erosion control items, shall be completed before the temporary stream diversion is removed. The Contractor must finish all construction activities within the limits of the Ordinary High Water Line, including but not limited to culvert installation and creek bed channel restoration, before the Contracting Agency will remove the fish block nets.~~

~~All materials used for the diversion shall become the property of the Contractor and removed from the project limits, with the exception of any materials supplied by the Contracting Agency, unless otherwise specified by the Engineer.~~

## ~~7-06.4 Vacant~~

## ~~7-06.5 Payment~~

~~Payment will be made for the following Bid items when included in the proposal:~~

~~"Temporary Stream Diversion", lump sum.~~
~~The lump sum Contract price for "Temporary Stream Diversion" shall be full payment to perform the Work as specified. Progress payments for the lump sum item "Temporary Stream Diversion" will be made as follows:~~

~~1. Twenty-five percent of the bid amount will be paid following completion of the TSD Plan including resolution of all Contracting Agency review comments.~~

~~2. The remaining seventy-five percent of the bid amount shall be paid in accordance with Section 1-09.9.~~

~~"Fish Exclusion", by force account as provided in Section 1-09.6.~~

~~To provide a common Proposal for all Bidders, the Contracting Agency has entered an amount in the Proposal to become a part of the Contractor's total Bid.~~

~~7-06.SA2.FR7~~
~~**(January 2, 2018)**~~
~~**7-06 Temporary Stream Diversion**~~

~~**7-06.1 Description**~~
~~This work shall include designing, installing, operating, maintaining, removing, and disposing of the temporary stream diversion, environmental compliance and other Work as detailed in these Specifications.~~

~~**7-06.2 Materials**~~
~~All materials shall be as detailed in the Contractor's Temporary Stream Diversion (TSD) Plan.~~

~~**7-06.3 Construction Requirements**~~

~~***7-06.3(1) General***~~

~~The Work shall include compliance with Washington State Water Quality Standards in WAC 173-201A, project permits, environmental commitments and these Provisions.~~

~~The temporary stream diversion may be either a gravity or a pumped system. Pump screens must comply with the requirements in Section 7-06.3(4) of these Special Provisions. Once a pumped diversion begins, the pump must run continuously until it is no longer necessary to bypass flows. The Contractor shall have back-up pumps on site and shall provide twenty-four hour monitoring of the pumping operation. Monitoring can be achieved by providing monitoring personnel on site or through remote sensing and instrumentation to verify operation of the bypass. If the Contractor elects to monitor by remote sensing and instrumentation, a Type 2 Working Drawing shall be submitted outlining how system operation will be monitored, how alerts will be made and how personnel will respond to a diversion system failure.~~

~~The temporary stream diversion including water that is retained by the temporary stream diversion and any dewatering system shall be located within the permitted impact areas as shown in the Plans. The upstream diversion dam shall be constructed to a height sufficient to prevent stream flow from entering the work area. Scour protection shall be provided at the outfall of the temporary stream diversion systems and dewatering system to prevent flow re-entering the stream channel from mobilizing streambed and embankment sediments. When a temporary stream diversion is located in or near an intertidal zone the temporary stream diversion design shall take tidal influence into consideration.~~

~~The Contractor shall have a contingency plan for each temporary stream diversion to be used in the event of a storm producing streamflow in excess of the design flow requirement, equipment failure, vandalism, or other incident. The equipment and materials for the contingency system shall be exclusive to a specific temporary stream diversion. The Contractor shall immediately implement the contingency system when~~

~~required or specified by the Engineer. The contingency system shall be designed to be fully operational within 2 hours.~~

~~For each temporary stream diversion, the Contractor shall arrange a meeting with the Engineer prior to implementation of the TSD Plan. At this meeting the Contractor shall explain to the Engineer the Work to be completed for the temporary stream diversion. The meeting shall be a minimum of 7 calendar days prior to start of the temporary stream diversion work.~~

~~The TSD shall be operational prior to performing any other work below the Ordinary High Water Line.~~

### ~~*7-06.3(2) Temporary Stream Diversion Plan*~~

#### ~~7-06.3(2)A General Plan Requirements~~

~~The Contractor shall submit a Temporary Stream Diversion Plan in accordance with the requirements of a Type 2E Working Drawing and these Specifications. A separate TSD Plan shall be prepared and submitted for each temporary stream diversion that is required. The Contractor shall include the details of the contingency system in the TSD Plan as described in Section 7-06.3(2)C of these Special Provisions. The TSD Plan shall consist of a narrative and drawings detailing all temporary stream diversion requirements and shall encompass and protect all the areas affected by the Contractor's temporary stream diversion Work.~~

~~The Contractor shall fully implement the TSD Plan throughout the duration of the associated Work. The Contractor shall update the TSD Plan throughout project construction to reflect actual site conditions and the Contractor's Work. Changes to plan shall comply with WAC 196-23-020. At the request of the Engineer an updated TSD Plan shall be submitted as a Type 2E Working Drawing. A copy of the TSD Plan shall be on the project site at all times.~~

~~The TSD Plan shall describe measures that will be taken to comply with Washington State Water Quality Standards in WAC 173-201A, applicable permits, environmental commitments, and these Provisions.~~

~~The Contractor shall incorporate the Diversion Schedule and Sequence into their Progress Schedule.~~

#### ~~7-06.3(2)B Stream Flows~~

##### ~~Minimum Stream Flows~~

~~At all times of operation, the Contractor's temporary stream diversion shall be designed to convey the following minimum flow rate of water in cubic feet per second:~~

~~*** $$1$$ ***~~

~~During all phases of the bypass installation and decommissioning, the Contractor shall maintain flows downstream of the project site.~~

~~A Contingency System is required for this Project. The capacity of the combined temporary stream diversion system and the Contingency System shall be designed to convey the following minimum flow rate of water in cubic feet per second:~~

~~*** $$2$$ ***~~

**~~7-06.3(2)C Plan Requirements~~**

~~The TSD Plan shall provide the following information in the following order:~~

1. ~~Description and Location of the temporary stream diversion~~

   a. ~~Identify the name of the water body where the temporary stream diversion will be placed. Provide a description of the temporary stream diversion.~~

   b. ~~Provide drawings showing the location of the temporary stream diversion, including proposed access routes and equipment to be used to construct the diversion.~~

2. ~~Schedule and Sequence~~

   a. ~~Provide a sequence of Work, dates, and durations for when the following will occur, in accordance with the in-water work window in the Special Provisions:~~

      i. ~~Fish exclusion (performed by the Contracting Agency).~~

      ii. ~~TSD Plan Implementation Meeting~~

      iii. ~~TSD installation.~~

      iv. ~~Dewatering of the isolated Work area.~~

      v. ~~Restoration and stabilization of the temporary stream diversion Work area to prevent erosion.~~

      vi. ~~Any relocations of the temporary stream diversion to accommodate the Work sequence (if needed).~~

      vii. ~~Channel rewatering.~~

      viii. ~~Removal of the TSD.~~

      ix. ~~Fish block removal (performed by Contracting Agency).~~

   b. ~~Include other Work that needs to be coordinated with the TSD (e.g., temporary erosion control).~~

3. ~~Calculations and Materials~~

   a. ~~Detail all elements of the temporary stream diversion; including but not limited to pipes, pumps, and other equipment.~~

~~b. Calculations shall demonstrate the diversion system conveys the minimum peak flow specified by the Contracting Agency and include tidal influence where applicable.~~

~~c. Temporary stream diversion shall include a water conveyance system to be used for dewatering and rewatering that is capable of conveying the flow required for the temporary stream diversion.~~

~~d. Methods for anchoring temporary stream diversion pipe and associated hardware; include calculations to demonstrate the devices ability to anchor the pipe and associated hardware.~~

~~e. Specifications for all materials and equipment to be used as part of the diversion including pump or diversion capacities and hose sizes. For example, provide the type, profile, and size of pipe.~~

~~f. Provide the size of fish screens (mesh size and surface area) to be used, in accordance with Section 7-06.3(4) of these Special Provisions.~~

~~4. Stream Flow Blocking and Dewatering~~

~~a. Provide the method(s), including locations and details (narrative and drawings) for blocking both the upstream and downstream ends of the diversion. Describe how minor leakage from upstream and downstream will be addressed.~~

~~b. Include provisions for scour protection at the temporary stream diversion outfalls.~~

~~c. Identify the means and methods for dewatering water and disposal of the water.~~

~~5. Contingency Plan~~

~~a. The Contractor shall include the details of the system in the TDS Plan sections that are applicable.~~

~~b. Describe the Work that will be implemented to prevent the work area from becoming inundated.~~

~~c. Provide the type and size of materials that will be used in the event of the Work area becoming inundated, including fish exclusion coordination with Contracting Agency if the block nets are compromised.~~

~~d. Describe how the contingency equipment and materials will be stored, inspected and maintained so they are ready for use if required.~~

~~e. Describe how the contingency system will deployed and operational within 2 hours.~~

~~6. Inspection and Maintenance~~

~~a. Provide the schedule and frequency for inspection of the temporary stream diversion; include weekends and holidays.~~

~~b. Describe how maintenance will be conducted when inspections identify deficiencies in the temporary stream diversion. These include, but are not limited to removal and disposal of trapped sediment or debris and repairing leaks.~~

~~c. The Contractor shall keep a record of all inspections and maintenance of the temporary stream diversion.~~

~~7. Rewatering the Stream Channel~~

~~a. Detail how the stream channel will be rewatered to comply with water quality requirements.~~

~~b. Identify measures that will prevent the stranding of fish during rewatering (i.e. describe methods, rates, and durations of the rewatering process knowing that flows downstream of the fish block must be maintained to protect fish).~~

~~8. Removal of the Temporary Stream Diversion~~

~~a. Describe the sequence that will be used for removing the temporary stream diversion and methods to prevent water quality impacts.~~

~~b. Describe how disturbed soil will be permanently stabilized.~~

~~c. Describe any temporary pipes to remain (requires approval of the Engineer): their type, pipe class, size, location, and plugging procedure.~~

~~9. Other Work required for the Contractor's temporary stream diversion~~

### ~~*7-06.3(3) Fish and Aquatic Species Exclusion and Notifications*~~

~~Prior to installing a temporary stream diversion, the Contractor shall allow 7 calendar days after the beginning of the in-water work window defined in the Special Provisions, in their schedule for the Contracting Agency: (1) to install fish block nets upstream and downstream of the in-water Work area; and (2) safely capture and relocate any fish and other aquatic organisms that become trapped between the block nets. No Work within the limits of the Ordinary High Water Line will be allowed prior to installation of fish block nets and completion of fish exclusion activities.~~

~~As specified by the Engineer the Contractor shall assist the Contracting Agency with fish and aquatic species exclusion. The Contracting Agency will pay for this Work by the force account item "Fish Exclusion".~~

### ~~*7-06.3(4) Dewatering Work Area*~~

~~Dewatering the isolated in-water Work area (between the upstream and downstream diversion dams) shall occur at a rate slow enough to allow the Contracting Agency to safely capture and relocate all fish species and other aquatic organisms to avoid stranding, as determined by the Engineer.~~

~~All pumps used for dewatering shall have an intake covered with a fish screen, operated, and maintained in accordance with RCW 77.57.010 and RCW 77.57.070. Appropriate fish screens are as follows:~~

1. ~~Perforated plate: 0.094 inch (maximum opening diameter);~~

2. ~~Profile bar: 0.069 inch (maximum width opening); or~~

3. ~~Woven wire: 0.094 inch (maximum opening measured on the diagonal).~~

~~The minimum open area for all types of fish screens is twenty-seven percent. The screened intake facility must have enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. The fish screen must remain in place whenever water is withdrawn until the Contracting Agency Biologists confirm all fish have been removed. At that point, the Contractor may remove the fish screen to finish dewatering the work area.~~

### ~~*7-06.3(5) Inspection and Maintenance*~~

~~At a minimum, the Contractor shall perform the following activities once per day (including weekends and holidays):~~

1. ~~Check for and correct leaks;~~

2. ~~Ensure the fish block nets remain sealed to the channel substrate.~~

~~The fish block nets shall be kept clear of debris that could jeopardize the integrity of the nets. The Contractor shall perform the following activities a minimum of three times per day or when requested by the Engineer. On working days, these activities shall be performed at the start, middle, and at the end of the working day. On non-working days, these activities shall be performed between 6:00 am and 8:00 am, between 11:00 am and 1:00 pm, and between 4:00 pm and 6:00 pm:~~

1. ~~Inspect the upstream and downstream fish block nets and remove debris;~~

2. ~~Inspect the upstream fish block net and all screens and similar facilities for impinged fish;~~

   a. ~~The Contractor shall immediately notify the Contracting Agency when impinged fish are discovered.~~

   b. ~~Removal of impinged fish will be performed by the Contracting Agency.~~

~~The Contractor shall maintain a written record of all inspection and maintenance activities; record to be available at the request of the Engineer.~~

### ~~*7-06.3(6) Rewatering the Stream Channel*~~

~~The Contractor shall notify the Engineer a minimum of 7 calendar days in advance of rewatering the stream channel.~~

~~The Contractor shall introduce water to the new stream channel section and trap sediments until the stream section meets the requirements of these Provisions. Rewatering shall occur at a rate to avoid loss of surface water downstream while the new channel section is rewatered.~~

### ~~*7-06.3(7) Removal of the Temporary Stream Diversion*~~

~~The Contractor shall notify the Engineer two business days in advance of beginning the temporary stream diversion removal sequence.~~

~~Once the water in the new stream channel will meet the applicable turbidity standards the Contractor may begin removal of the temporary stream diversion and the stream channel opened to flows.~~

~~The Contractor shall immediately take all corrective actions necessary to prevent the water from exceeding the turbidity standards should the stream turbidity increase. All Work within the channel, except for removal of the temporary erosion control items, shall be completed before the temporary stream diversion is removed. The Contractor must finish all construction activities within the limits of the Ordinary High Water Line, including but not limited to culvert installation and creek bed channel restoration, before the Contracting Agency will remove the fish block nets.~~

~~All materials used for the diversion shall become the property of the Contractor and removed from the project limits, with the exception of any materials supplied by the Contracting Agency, unless otherwise specified by the Engineer.~~

## ~~7-06.4 Vacant~~

## ~~7-06.5 Payment~~

~~Payment will be made for the following Bid items when included in the proposal:~~

~~"Temporary Stream Diversion", lump sum.~~
~~The lump sum Contract price for "Temporary Stream Diversion" shall be full payment to perform the Work as specified. Progress payments for the lump sum item "Temporary Stream Diversion" will be made as follows:~~

1. ~~Twenty-five percent of the bid amount will be paid following completion of the TSD Plan including resolution of all Contracting Agency review comments.~~

2. ~~The remaining seventy-five percent of the bid amount shall be paid in accordance with Section 1-09.9.~~

~~"Fish Exclusion", by force account as provided in Section 1-09.6.~~

~~To provide a common Proposal for all Bidders, the Contracting Agency has entered an amount in the Proposal to become a part of the Contractor's total Bid.~~

Page Intentionally Left Blank

**DIVISION8.GR8 Miscellaneous Construction**

**8-01.GR8 Erosion Control and Water Pollution Control**

**8-01.3.GR8 Construction Requirements**

**8-01.3(1).GR8 General**

8-01.3(1).INST1.GR8 (The tenth paragraph of Section 8-01.3(1) is revised to read)
Must use once preceding any of the following:

8-01.3(1).OPT1.GR8 (Erodible Soil Eastern Washington)
(January 25, 2010)
Use for projects east of the Cascade range in areas receiving 12 inches or less annual precipitation. Do not use if any portion of the project lies in areas that receive more than 12 inches of annual precipitation. See https://wsdot.wa.gov/engineering-standards/design-topics/hydraulics-hydrology.

8-01.3(1).INST2.GR8 (Section 8-01.3(1) is supplemented with the following)
Must use once preceding any of the following:

8-01.3(1).OPT8.FR8 (Side Slope Treatment)
(April 1, 2002)
Use on projects where erodible soils are anticipated and it is desired to have the newly exposed slopes walked before final erosion control can be accomplished, in accordance with recommendation from environmental office.
(1 fill-in)

**8-01-3(1)B.GR8 Erosion and Sediment Control (ESC) Lead**

8-01.3(1)B.INST1.GR8 (Item number 3 and 4 in the second paragraph of Section 8-01.3(1)B are revised to read)
Must use once preceding any of the following:

8-01.3(1)B.OPT1.GR8 (October 3, 2022)
Use on projects without a CSWGP that require an ESC lead.

**8-01.3(1)C.GR8 Water Management**

**8-01.3(1)C4.GR8 Management of Off-Site Water**

8-01.3(1)C4.INST1.GR8 (Section 8-01.3(1)C4 is supplemented with the following)
Must use once preceding any of the following:

8-01.3(1)C4.OPT1.FR8 (Off-site stormwater routed through or around Project site)
(August 6, 2012)

Use when there are known locations where stormwater enters the project site and it is desired to prevent this stormwater from flowing uncontrolled through the project site.
(1 fill-in)

**8-01.3(2).GR8 Temporary Seeding and Mulching**

**8-01.3(2)B.GR8 Temporary Seeding**

8-01.3(2)B.INST1.GR8 (Section 8-01.3(2)B is supplemented with the following)
Must use once preceding any of the following:

8-01.3(2)B.OPT1.FR8 (Composition, proportion, quality and application rate of grass seed)
(August 4, 2014)
Use on projects where a common, non-native or non-source-identified seed can be used. This mix will generally be used within urban areas on small areas of disturbance. The fill-ins for the seed should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect.
(2 fill-ins) (Fill-ins with dollar signs only are to be used as required)

8-01.3(2)B.OPT2.FR8 (Composition, proportion, quality and application rate of grass seed)
(August 4, 2014)
Use in projects where the Region Landscape Architect recommends source identified (local genetics) native seed. The fill-ins should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect.
(3 fill-ins) (Fill-ins with dollar signs only are to be used as required.)

8-01.3(2)B.OPT3.GR8 (Seeding by hand)
(September 3, 2019)
Use in projects with seeding and fertilizing of less than 1 acre, the use of mechanical equipment would not be cost effective, or on remote projects with many small areas.

8-01.3(2)B.OPT4.FR8 (One application of fertilizer)
(January 3, 2006)
Use in projects requiring only one application of fertilizer.
(4 fill-ins) (The fill-ins for the fertilizer itself should be by consulting the State Horticulturist, the Region Landscape Architect, or Headquarters

Roadside and Site Development. Fill-in $$4$$ should be 2/3 the amount of nitrogen in fill-in $$1$$.)

8-01.3(2)B.OPT8.FR8 (Composition, proportion, quality and application rate of grass seed)
(August 4, 2014)
Use in projects where the Region Landscape Architect recommends native seed that is not source identified. The fill-ins should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect.
(3 fill-ins)

**8-01.3(2)D.GR8 Temporary Mulching**

8-01.3(2)D.INST1.GR8 (Section 8-01.3(2)D is supplemented with the following)
Must use once preceding any of the following:

8-01.3(2)D.OPT1.FR8 (Type and rate of application of mulch)
(January 5, 2015)
Use in projects requiring the application of mulch when the application rate per acre or the allowable pounds in any single lift are revised from the Standard Specifications.
(3 fill-ins)

**8-02.GR8 Roadside Restoration**

**8-02.1.GR8 Description**

8-02.1.INST1.GR8 (Section 8-02.1 is supplemented with the following)
Must use once preceding any of the following:

8-02.1.OPT1.GR8 (Removal of Buried Previously Fabricated Debris)
(August 4, 2014)
Use on projects that include soil amendment, and/or irrigation systems, and where previously fabricated construction debris is known or suspected to exist. Requires the approval of the Region Construction Manager. Must include **8-02.3(5).OPT4.GR8** and **8-02.5.OPT2.GR8**.

8-02.1.OPT2.GR8 (Biotic Soil Amendments)
(April 1, 2019)
Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.

Must also use **8-02.2.OPT2.GR8**, **8-02.3.OPT1.GR8**, **8-02.4.OPT2.GR8**, and **8-02.5.OPT4.FR8.**

**8-02.2.GR8 Materials**

8-02.2.INST1.GR8 (Section 8-02.2 is supplemented with the following)
Must use once preceding the following:

8-02.2.OPT1.GR8 (Conservation Grade Plant Material)
(January 3, 2011)
Use in projects that include "conservation grade" plant material in the plant list. Use requires approval of the Region Landscape Architect or HQ Region Liaison Landscape Architect.

8-02.2.OPT2.GR8 (Biotic Soil Amendments)
(April 1, 2019)
Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.
Must also use **8-02.1.OPT2.GR8**, **8-02.3.OPT1.GR8**, **8-02.4.OPT2.GR8**, and **8-02.5.OPT4.FR8.**

8-02.2(9-14).GR8 (Erosion Control and Roadside Planting)

8-02.2(9-14).INST1.GR8 (Section 9-14 is supplemented with the following)
Must use once preceding the following:

8-02.2(9-14).OPT1.FR8 (Weed Barrier Mats)
(January 3, 2011)
Use in projects requiring weed barrier mats.
(1 fill-in) Fill-in is the staple length.
Contact the Region Landscape Architect or HQ Region Liaison Landscape Architect for fill-in information.

~~8-02.2(9-14.1).GR8 (In the table in Section 9-14.1, the row for Compost is revised to read:)~~
~~Must use once preceding any of the following:~~

~~8-02.2(9-14.1).OPT1.2023.GR8 (January 10, 2022)~~
~~Use in all projects with seeding, planting, or with the bid item for Fine, Medium, or Coarse Compost. Also include if using Erosion Control Items that utilize compost as a component.~~

8-02.2(9-14.2).GR8 (Topsoil)

8-02.2(9-14.2(1)).GR8 (Topsoil Type A)

(Section 9-14.1(1) is supplemented with the following)
Must use once preceding any of the following:

8-02.2(9-14.2(1)).OPT1.FR8 (February 25, 2021)
For use on projects where Topsoil Type A is needed for stormwater BMPs and for plant growth and establishment. Contact the Landscape Architect for fill-ins and depth of application.
(4 fill-ins)

8-02.2(9-14.5).GR8 (Mulch and Amendments)

8-02.2(9-14.5(8)).GR8 (Compost)
(Section 9-14.4(8) is supplemented with the following)
Must use once preceding any of the following:

8-02.2(9-14.5(8)).OPT1.GR8 (January 3, 2010)
Use when the contract has less than100 yards of compost, or less than 30 working days and 100 yards of compost or greater.

8-02.2(9-14.5(8)).OPT2.GR8 (September 3, 2019)
May be used to allow biosolids compost on projects that do not use compost on stormwater BMPs. Use with concurrence of the Hydraulics Engineer.

**8-02.3.GR8 Construction Requirements**

8-02.3.INST1.GR8 (Section 8-02.3 is supplemented with the following)
Must use once preceding any of the following:

8-02.3.OPT1.GR8 (Biotic Soil Amendments)
(April 1, 2019)
Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.
Must also use **8-02.1.OPT2.GR8**, **8-02.2.OPT2.GR8**, **8-02.4.OPT2.GR8**, and **8-02.5.OPT4.FR8.**

**8-02.3(4).GR8 Topsoil**

**8-02.3(4)A.GR8 Topsoil Type A**

8-02.3(4)A.INST1.GR8 (Section 8-02.3(4)A is supplemented with the

following)
Must use once preceding any of the following:

8-02.3(4)A.OPT1.FR8 (Topsoil Type A)
(August 3, 2015)
Must include with **8-02.2(9-14.2(1)).OPT1.FR8.**

**8-02.3(5).GR8 Roadside Seeding, Lawn and Planting Area Preparation**

8-02.3(5).INST1.GR8 (Section 8-02.3(5) is supplemented with the following)
Must use once preceding any of the following:

8-02.3(5).OPT1.FR8 (Application of Compost)
(August 5, 2013)
Include when no incorporation of compost is required.
(1 fill-in)

8-02.3(5).OPT2.FR8 (Application of Compost)
(August 5, 2013)
Include when compost is to be incorporated into the soil and irrigation lines are included in the Contract.
(2 fill-ins)

8-02.3(5).OPT3.FR8 (Application of Compost)
(August 5, 2013)
Include when compost is to be incorporated onto the soil and there are no irrigation lines included in the Contract.
(2 fill-ins).

8-02.3(5).OPT4.GR8 (Removal of Buried Previously Fabricated Debris)
(August 4, 2014)
Must include with **8-02.1.OPT1.GR8 and 8-02.5.OPT2.GR8.**

**8-02.3(6).GR8 Mulch and Amendments**

**8-02.3(6)B.GR8 Fertilizers**

8-02.3(6)B.INST1.GR8 (Section 8-02.3(6)B is supplemented with the following)
Must use once preceding any of the following:

8-02.3(6)B.OPT1.FR8 (One application of fertilizer)
(September 3, 2019)
Use in projects requiring only one application of fertilizer.
(4 fill-ins) (The fill-ins for the fertilizer itself should be by consulting the State Horticulturist, the Region Landscape Architect, or Headquarters Roadside and Site Development. Fill-in $$4$$ should be 2/3 the amount of nitrogen in fill-in $$1$$.)

8-02.3(6)B.OPT2.FR8 (More than one application of fertilizer)

(September 3, 2019)
Use in projects when the Region Landscape Arch. recommends more than one fertilizer application.
(7 fill-ins) (The fill-ins for the fertilizer itself should be by consulting the Region Landscape Architect, or Headquarters Roadside and Site Development. Fill-in $$7$$ should be 2/3 the amount of nitrogen in fill-in $$4$$.)

8-02.3(6)B.OPT3.GR8 (Fertilizing by hand)
(September 3, 2019)
Must include with **8-02.3(9)B.OPT2.GR8**.
Use in projects with seeding and fertilizing of less than 1 acre, the use of mechanical equipment would not be cost effective, or on remote projects with many small areas.

8-02.3(6)B.OPT4.FR8 (Fertilizer Application in Eastern Washington)
(September 3, 2019)
Use this GSP for projects in eastern Washington where soils tests show excess potassium and phosphorous and high pH.

**8-02.3(8).GR8 Planting**

8-02.3(8).INST1.GR8 (Section 8-02.3(8) is supplemented with the following)
Must use once preceding any of the following:

8-02.3(8).OPT1.FR8 (February 25, 2013)
Must use when the project requires a U.S. Army Corps of Engineers Nationwide Permit. Use the Environmental Commitment Meeting to determine applicability of this provision for the project.
(1 fill-in)

**8-02.3(9).GR8 Seeding, Fertilizing, and Mulching**

**8-02.3(9)B.GR8 Seeding and Fertilizing**

8-02.3(9)B.INST1.GR8 (Section 8-02.3(9)B is supplemented with the following)
Must use once preceding any of the following:

8-02.3(9)B.OPT1.FR8 (Composition, proportion, quality and application rate of grass seed)
(September 3, 2019)
Use in projects where the Region Landscape Architect recommends source identified (local genetics) native seed. The fill-ins should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect.
(3 fill-ins) (Fill-ins with dollar signs only are to be used as required.)

8-02.3(9)B.OPT2.GR8 (Seeding by hand)
(September 3, 2019)
Use in projects with seeding and fertilizing of less than 1 acre, the use of mechanical equipment would not be cost effective, or on remote projects with many small areas.

8-02.3(9)B.OPT3.FR8 (Composition, proportion, quality and application rate of grass seed)
(September 3, 2019)
Use in projects where the Region Landscape Architect recommends native seed that is not source identified. The fill-ins should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect.
(3 fill-ins)

**8-02.3(11).GR8 Mulch**

8-02.3(11).INST1.GR8 (Section 8-02.3(11) is supplemented with the following)
Must use once preceding any of the following:

8-02.3(11).OPT1.FR8 (Placement of Bark or Wood Chip Mulch)
(April 2, 2012)
Use in projects requiring bark and wood chip mulch. Use requires approval of the Region Landscape Architect or HQ Region Liaison Landscape Architect.
(1 fill-in)

**8-02.3(11)A.GR8 Mulch for Seeding Areas**

8-02.3(11)A.INST1.GR8 (Section 8-02.3(11)A is supplemented with the following)
Must use once preceding any of the following:

8-02.3(11)A.OPT1.FR8 (Type and rate of application of mulch)
(September 3, 2019)
Use in projects requiring the application of mulch when the application rate per acre or the allowable pounds in any single lift are revised from the Standard Specifications.
(3 fill-ins)

**8-02.4.GR8 Measurement**

8-02.4.INST1.GR8 (Section 8-02.4 is supplemented with the following)
Must use once preceding any of the following:

8-02.4.OPT2.GR8 (Biotic Soil Amendments)
(April 1, 2019)
Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic

Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.
Must also use **8-02.1.OPT2.GR8**, **8-02.2.OPT2.GR8**, **8-02.3.OPT1.GR8**, and **8-02.5.OPT4.FR8**.

**8-02.5.GR8 Payment**

8-02.5.INST1.GR8 (Section 8-02.5 is supplemented with the following)
Must use once preceding any of the following:

8-02.5.OPT2.GR8 (Removal of Buried Previously Fabricated Debris)
(September 7, 2021)
Must include with **8-02.1.OPT1.GR8** and **8-02.3(5).OPT4.GR8**.

8-02.5.OPT4.FR8 (Biotic Soil Amendments)
(April 1, 2019)
Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.
(1 fill-in) (Fill-in #1 indicates which seed item will be used in conjunction with the BSA. Consult with the Region Landscape Architect to determine which permanent seeding item to use.)
Must also use **8-02.1.OPT2.GR8**, **8-02.2.OPT2.GR8**, **8-02.3.OPT1.GR8**, and **8-02.4.OPT2.GR8**.

**8-03.GR8 Irrigation Systems**

**8-03.3.GR8 Construction Requirements**

**8-03.3(6).GR8 Excavation**

**8-03.3(6)A.GR8 Trenches**

**8-03.3(6)A2.GR8 Within Critical Root Zone**

8-03.3(6)A2.INST1.GR8 (Section 8-03.3(6)A2 is supplemented with the following)
Must use once preceding any of the following:

8-03.3(6)A2.OPT1.FR8 (Trenching in Critical Root Zone)
(October 3, 2022)

Use in projects when the Landscape Architect has indicated that locations of mechanical trenching will be allowed.
(1 fill-in)
Fill-in #1: Indicate locations where mechanical trenching within the critical root zone will be allowed. Contact Region Landscaping Office for assistance.

## 8-10.GR8 Guide Posts

### 8-10.1.GR8 Description

8-10.1.INST1.GR8 (Section 8-10.1 is supplemented with the following)
Must use once preceding any of the following:

8-10.1.OPT1.GR8 (Barrier Delineators)
(April 1, 2002)
Must also use **8-10.2.OPT1.GR8, 8-10.3.OPT1.GR8** or **8-10.3.OPT2.GR8, 8-10.4.OPT1.GR8,** and **8-10.5.OPT1.GR8.**

### 8-10.2.GR8 Materials

8-10.2.INST1.GR8 (Section 8-10.2 is supplemented with the following)
Must use once preceding any of the following:

8-10.2.OPT1.GR8 (Barrier Delineators)
(~~August 6, 2018~~October 3, 2022)
Must also use **8-10.1.OPT1.GR8, 8-10.3.OPT1.GR8** or **8-10.3.OPT2.GR8, 8-10.4.OPT1.GR8,** and **8-10.5.OPT1.GR8.**

### 8-10.3.GR8 Construction Requirements

8-10.3.INST1.GR8 (Section 8-10.3 is supplemented with the following)
Must use once preceding any of the following:

8-10.3.OPT1.GR8 (Barrier Delineators)
(April 1, 2002)
Delineators placed 6" down from top.
Must also use **8-10.1.OPT1.GR8, 8-10.2.OPT1.GR8 8-10.4.OPT1.GR8,** and **8-10.5.OPT1.GR8.**

8-10.3.OPT2.GR8 (Barrier Delineators)
(April 1, 2002)
Delineators placed on top of barrier.
Must also use **8-10.1.OPT1.GR8, 8-10.2.OPT1.GR8 8-10.4.OPT1.GR8,** and **8-10.5.OPT1.GR8.**

### 8-10.4.GR8 Measurement

8-10.4.INST1.GR8 (Section 8-10.4 is supplemented with the following)
Must use once preceding any of the following:

8-10.4.OPT1.GR8 (Barrier Delineators)
(April 1, 2002)
Must also use **8-10.1.OPT1.GR8, 8-10.2.OPT1.GR8 8-10.3.OPT1.GR8,** or **8-10.3.OPT2.GR8,** and **8-10.5.OPT1.GR8.**

**8-10.5.GR8 Payment**

8-10.5.INST1.GR8 (Section 8-10.5 is supplemented with the following)
Must use once preceding any of the following:

8-10.5.OPT1.GR8 (Barrier Delineators)
(April 1, 2002)
Must also use **8-10.1.OPT1.GR8, 8-10.2.OPT1.GR8 8-10.3.OPT1.GR8,** or **8-10.3.OPT2.GR8,** and **8-10.4.OPT1.GR8.**

## 8-11.GR8 Guardrail

**8-11.1.GR8 Description**

8-11.1.INST1.GR8 (Section 8-11.1 is supplemented with the following)
Must use once preceding any of the following:

8-11.1.OPT1.GR8 (High-Tension Cable Barrier System 4 Cable)
(February 3, 2020)
Must also use **8-11.2.OPT2.~~G~~FR8, 8-11.3.OPT2.FR8, 8-11.4.OPT2.GR8**, **8-11.5.OPT7.GR8,** and **8-11.5.OPT8.GR8.**

8-11.1.OPT2.GR8 (Aesthetic Treatment for Beam Guardrail)
(January 7, 2019)
Use in all projects that require Aesthetic Treatment for Beam Guardrail. This replaces the use of Weathering Steel Beam Guardrail.
Must also use **8-11.2.OPT4.GR8, 8-11.3.OPT4.GR8, 8-11.4.OPT4.GR8, and 8-11.5.OPT1.GR8.**

**8-11.2.GR8 Materials**

8-11.2.INST1.GR8 (Section 8-11.2 is supplemented with the following)
Must use once preceding any of the following:

8-11.2.OPT2.~~G~~FR8 (High-Tension Cable Barrier System 4 Cable)
(~~September 3, 2019~~October 3, 2022)
Must also use **8-11.1.OPT1.GR8, 8-11.3.OPT2.FR8, 8-11.4.OPT2.GR8, 8-11.5.OPT7.GR8,** and **8-11.5.OPT8.GR8**.
(1 fill-in)
Fill-in #1 is the maximum allowable lateral deflection distance for the high-tension cable barrier system(s).

8-11.2.OPT4.GR8 (Aesthetic Treatment for Beam Guardrail)

(January 2, 2018)
Use in all projects that require Aesthetic Treatment for Beam Guardrail. This replaces the use of Weathering Steel Beam Guardrail.
Must also use **8-11.1.OPT2.GR8, 8-11.3.OPT4.GR8, 8-11.4.OPT4.GR8, and 8-11.5.OPT1.GR8.**

**8-11.2(9-16.3).GR8 (Beam Guardrail)**

**8-11.2(9-16.3(2)).GR8 (Posts and Blocks)**

8-11.2(9-16.3(2)).INST1.GR8 (Section 9-16.3(2) is supplemented with the following)
Must use once preceding any of the following:

8-11.2(9-16.3(2)).OPT1.GB8 (Steel shear plates and backing plates)
(April 6, 2015)
Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using timber blockouts wedged between openings in existing concrete baluster rails. Include with **6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 8-11.2(9-16.3(4)).OPT1.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT1.GB8, and 8-11.3(1)B.OPT7.GB8**.

8-11.2(9-16.3(2)).OPT2.GB8 (Grout)
(April 6, 2015)
Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using a steel post connection to the existing concrete curb or railbase. Include with **6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 8-11.2(9-16.3(4)).OPT1.GB8, and 8-11.3(1)A.OPT2.GB8**.

8-11.2(9-16.3(2)).OPT3.GB8 (Steel Angles for Timber Blockout Connection to Truss)
(April 6, 2015)
Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam requiring timber blockout connection to existing steel truss members. Include with **8-11.2(9-16.3(4)).OPT2.GB8 and other appropriate GSPs supplementing Sections 8-11.2 and 8-11.3(1)**.

8-11.2(9-16.3(2)).OPT4.GB8 (Beam Guardrail Type WP Thrie Beam)
(April 6, 2015)
Use in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie Beam). Include with **1-07.1.OPT2.FR1, 8-11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT3.GB8, 8-11.3(1)B.OPT9.GB8, 8-11.3(1)H.OPT1.GB8, and 8-11.3(1)D.OPT1.GB8**.

8-11.2(9-16.3(4)).GB8 (Hardware)
(Section 9-16.3(4) is supplemented with the following)

Must use once preceding any of the following:

8-11.2(9-16.3(4)).OPT1.GB8 (Resin bonded anchors)
(April 6, 2015)
Use in thrie beam retrofit projects requiring resin bonded anchors for connection to concrete baluster railing end posts, and concrete curbs and railbases. Include with **6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, and either 8-11.2(9-16.3(2)).OPT1.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT1.GB8, and 8-11.3(1)B.OPT7.GB8, or 8-11.2(9-16.3(2)).OPT2.GB8 and 8-11.3(1)A.OPT2.GB8**.

8-11.2(9-16.3(4)).OPT2.GB8 (Lag screws)
(April 6, 2015)
Use in thrie beam retrofit projects requiring connections with lag screws to timber members and blockouts.

**8-11.3.GR8 Construction Requirements**

8-11.3.INST1.GR8 (Section 8-11.3 is supplemented with the following)
Must use once preceding any of the following:

8-11.3.OPT1.~~G~~FR8 (~~Box Culvert Guardrail Steel Posts~~Installing Steel Posts on Existing Box Culverts)
(~~August 6, 2018~~October 3, 2022)
Must also use **8-11.4.OPT1.GR8** and **8-11.5.OPT6.GR8**.
Use in projects requiring the construction of steel guardrail posts on top of existing concrete box culverts either by embedding or bolting through the culvert wall. When using embedded anchor box culvert guardrail steel posts (Std. Plan C-20.41), must also use **6-02.2.OPT1.GR6** and **6-02.3(18).OPT1.GR6**.
(4 fill-ins)
Fill-in #1 is the box culvert location SR & MP.
Fill-in #2 is the contact name, phone number, and address for delivery of box culvert steel post assemblies.
Fill-in #3 is the box culvert location SR & MP.
Fill-in #4 is the contact name, phone number, and address for delivery of box culvert steel post assemblies.

8-11.3.OPT2.FR8 (High-Tension Cable Barrier System 4 Cable)
(~~February 3, 2020~~October 3, 2022)
Must also use **8-11.1.OPT1.GR8, 8-11.2.OPT2.~~G~~FR8, 8-11.4.OPT2.GR8, 8-11.5.OPT7.GR8, and 8-11.5.OPT8.GR8.**
Fill-in is the location(s) of Contracting Agency sites to deliver complete sets of Additional High-Tension Cable Barrier Components.
(1 fill-in)

8-11.3.OPT4.GR8 (Aesthetic Treatment for Beam Guardrail)

(January 7, 2019)
Use in all projects that require Aesthetic Treatment for Beam Guardrail. This replaces the use of Weathering Steel Beam Guardrail.
Must also use **8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-11.4.OPT4.GR8, and 8-11.5.OPT1.GR8.**

8-11.3.OPT5.FR8 (Installing Steel Posts on New Box Culverts)
(October 3, 2022)
Use in projects requiring the construction of steel guardrail posts on top of new concrete box culverts either by embedding or bolting through the culvert wall. When using embedded anchor box culvert guardrail steel posts (Std. Plan C-20.41), must also use **6-02.2.OPT1.GR6** and **6-02.3(18).OPT1.GR6**.
Must also use **8-11.4.OPT1.GR8** and **8-11.5.OPT6.GR8**.
(4 fill-ins)
Fill-in #1 is the box culvert location SR & MP.
Fill-in #2 is the contact name, phone number, and address for delivery of box culvert steel post assemblies.
Fill-in #3 is the box culvert location SR & MP.
Fill-in #4 is the contact name, phone number, and address for delivery of box culvert steel post assemblies.

**8-11.3(1).GR8 Beam Guardrail**

8-11.3(1).INST1.GR8 (Section 8-11.3(1) is supplemented with the following)
Must use once preceding any of the following:

8-11.3(1).OPT1.GR8 Post Selection
(April 5, 2010)
Use in all projects that specifically require wood guardrail posts or specifically require steel guardrail posts.

**8-11.3(1)A.GR8 Erection of Posts**

8-11.3(1)A.INST1.GR8 (Section 8-11.3(1)A is supplemented with the following)
Must use once preceding any of the following:

8-11.3(1)A.OPT1.GB8 (Timber Blockouts for Beam Guardrail Type Thrie Beam)
(April 6, 2015)
Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using timber blockouts wedged between openings in existing concrete baluster rails. Include with **6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 8-11.2(9-16.3(2)).OPT1.GB8, 8-11.2(9-16.3(4)).OPT1.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, and 8-11.3(1)B.OPT7.GB8**.

8-11.3(1)A.OPT2.GB8 (Steel Posts for Beam Guardrail Type Thrie Beam)
(January 4, 2016)
Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using a steel post connection to the existing concrete curb or railbase. Include with **6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 8-11.2(9-16.3(2)).OPT2.GB8, 8-11.2(9-16.3(4)).OPT1.GB8, and 8-11.3(1)A.OPT2.GB8**.

8-11.3(1)A.OPT3.GB8 (Beam Guardrail Type WP Thrie Beam)
(September 8, 2020)
Include in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie Beam). Include with **1-07.1.OPT2.FR1, 8-11.2(9-16.3(2)).OPT4.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)B.OPT9.GB8, 8-11.3(1)H.OPT1.GB8, and 8-11.3(1)D.OPT1.GB8**.

**8-11.3(1)B.GR8 Erection of Rail**

8-11.3(1)B.INST1.GR8 (Section 8-11.3(1)B is supplemented with the following)
Must use once preceding any of the following:

8-11.3(1)B.OPT6.GB8 (Field Measuring to Existing Type 3 Anchors)
(April 6, 2015)
Include in thrie beam retrofit projects when existing Type 3 anchors are being salvaged for reuse as part of the retrofitted guardrail system.

8-11.3(1)B.OPT7.GB8 (Attaching Beam Guardrail Type Thrie Beam to Timber Blockouts)
(April 6, 2015)
Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using timber blockouts wedged between openings in existing concrete baluster rails. Include with **6-02.2.OPT1.GR6, 6-02.3(18).OPT1.GR6, 8-11.2(9-16.3(2)).OPT1.GB8, 8-11.2(9-16.3(4)).OPT1.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, and 8-11.3(1)A.OPT1.GB8**.

8-11.3(1)B.OPT8.GB8 (Thrie Beam Expansion Joint Element)
(September 13, 2021)
Use in projects where the guardrail elements are continuous across interior bridge expansion joints. Contact HQ Design for the thrie beam expansion joint element detail to include in the project plans

8-11.3(1)B.OPT9.GB8 (Beam Guardrail Type WP Thrie Beam)
(April 6, 2015)
Include in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie Beam). Include with **1-07.1.OPT2.FR1, 8-11.2(9-16.3(2)).OPT4.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT3.GB8, 8-11.3(1)H.OPT1.GB8, and 8-11.3(1)D.OPT1.GB8**.

**8-11.3(1)D.GR8 Removing Guardrail**

8-11.3(1)D.INST1.GR8 (Section 8-11.3(1)D is supplemented with the following)
Must use once preceding any of the following:

8-11.3(1)D.OPT1.GB8 (Beam Guardrail Type WP Thrie Beam)
(September 8, 2020)
Include in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie Beam). Include with **1-07.1.OPT2.FR1, 8-11.2(9-16.3(2)).OPT4.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT3.GB8, 8-11.3(1)B.OPT9.GB8, and 8-11.3(1)H.OPT1.GB8**.

**8-11.3(1)H.GR8 Guardrail Construction Exposed to Traffic**

8-11.3(1)H.INST1.GR8 (Section 8-11.3(1)H is supplemented with the following)
Must use once preceding any of the following:

8-11.3(1)H.OPT1.GB8 (Beam Guardrail Type WP Thrie Beam)
(April 6, 2015)
Include in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie Beam). Include with **1-07.1.OPT2.FR1, 8-11.2(9-16.3(2)).OPT4.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT3.GB8, 8-11.3(1)B.OPT9.GB8, and 8-11.3(1)D.OPT1.GB8**.

**8-11.4.GR8 Measurement**

8-11.4.INST1.GR8 (Section 8-11.4 is supplemented with the following)
Must use once preceding any of the following:

8-11.4.OPT1.GR8 (Box Culvert Guardrail Steel Posts)
(~~March 13, 1995~~October 3, 2022)
**Must include with 8-11.3.OPT1.~~G~~FR8** or **8-11.3.OPT5.FR8,** and **8-11.5.OPT6.GR8.**
Use in projects requiring the construction of steel guardrail posts on top of existing or new concrete box culverts.

8-11.4.OPT2.GR8 (High-Tension Cable Barrier System 4 Cable)
(February 3, 2020)

Must also use **8-11.1.OPT1.GR8, 8-11.2.OPT2.~~G~~FR8, 8-11.3.OPT2.FR8, 8-11.5.OPT7.GR8,** and **8-11.5.OPT8.GR8.**

8-11.4.OPT4.GR8 (Aesthetic Treatment for Beam Guardrail)
(April 2, 2018)
Use in all projects that require Aesthetic Treatment for Beam Guardrail.
Must also use **8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-11.3.OPT4.GR8, and 8-11.5.OPT1.GR8.**

**8-11.5.GR8 Payment**

8-11.5.INST2.GR8 (Section 8-11.5 is supplemented with the following)
Must use once preceding any of the following:

8-11.5.OPT1.GR8 (Aesthetic Treatment for Beam Guardrail)
(April 2, 2018)
Use in all projects that require Aesthetic Treatment for Beam Guardrail.
Must also use **8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-11.3.OPT4.GR8, and 8-11.4.OPT4.GR8.**

8-11.5.OPT2.GR8 (Guardrail Leave-Outs)
(January 13, 2021)
Use in all projects with guardrail.

8-11.5.OPT6.GR8 (Box Culvert Guardrail Steel Posts)
(~~August 6, 2018~~October 3, 2022)
Use in projects requiring the construction of steel guardrail posts on top of existing or new concrete box culverts.
Must include with **8-11.3.OPT1.~~G~~FR8** or **8-11.3.OPT5.FR8,** and **8-11.4.OPT1.GR8.**

8-11.5.OPT7.GR8 (High-Tension Cable Barrier)
(February 3, 2020)
Must also use **8-11.1.OPT1.GR8, 8-11.2.OPT2.~~G~~FR8, 8-11.3.OPT2.FR8, 8-11.4.OPT2.GR8** and **8-11.5.OPT8.GR8.**

8-11.5.OPT8.GR8 (Additional High-Tension Cable Barrier Components)
(February 3, 2020)
Must also use **8-11.1.OPT1.GR8, 8-11.2.OPT2.~~G~~FR8, 8-11.3.OPT2.FR8, 8-11.4.OPT2.GR8** and **8-11.5.OPT7.GR8**.
No Federal funding participation. Must be in state funds group.

**8-12.GR8 Chain Link Fence and Wire Fence**

**8-12.2.GR8 Materials**

8-12.2.INST1.GR8 (Section 8-12.2 is supplemented with the following)
Must use once preceding any of the following:

8-12.2.OPT1.FR8 (Coated chain link fence)
(September 8, 2020)
Use in projects requiring the construction of coated chain link fence. Must include **8-12.5.OPT1.GR8**.
(1 fill-in)

8-12.2.OPT6.GB8 (Cable Fence)
(September 3, 2019)
Use in projects with cable fence. Include with **8-12.3.OPT1(B).GB8, 8-12.4.OPT1.GB8, and 8-12.5.OPT6.GB8**. Include with **8-12.3.OPT1(A).GB8** when anchoring the cable fence posts to existing concrete structures. Include with **8-12.3.OPT1(C).GB8** when painting of the galvanized fence posts is required.

**8-12.3.GR8 Construction Requirements**

8-12.3.INST1.GR8 (Section 8-12.3 is supplemented with the following)
Must use once preceding any of the following:

8-12.3.OPT1.GB8 (Cable Fence)
Use once preceding the following:

8-12.3.OPT1(A).GB8 (Field Measuring For Cable Fence)
(April 6, 2015)
Use in projects with cable fence when anchoring the cable fence posts to existing concrete structures. Include with **8-12.2.OPT6.GB8, 8-12.3.OPT1(B).GB8, 8-12.4.OPT1.GB8, and 8-12.5.OPT6.GB8**. Include with **8-12.3.OPT1(C).GB8** when painting of the galvanized fence posts is required.

8-12.3.OPT1(B).GB8 (Cable Fence)
(April 6, 2015)
Use in projects with cable fence. Include with **8-12.2.OPT6.GB8, 8-12.4.OPT1.GB8, and 8-12.5.OPT6.GB8**. Include with **8-12.3.OPT1(A).GB8** when anchoring the cable fence posts to existing concrete structures. Include with **8-12.3.OPT1(C).GB8** when painting of the galvanized fence posts is required.

8-12.3.OPT1(C).GB8 (Cable Fence)
(January 2, 2018)
Use in projects with cable fence. Include with **8-12.2.OPT6.GB8, 8-12.4.OPT1.GB8, and 8-12.5.OPT6.GB8**. Include with **8-12.3.OPT1(A).GB8** when anchoring the cable fence posts to existing concrete structures.

**8-12.4.GR8 Measurement**

8-12.4.INST1.GR8 (Section 8-12.4 is supplemented with the following)
Must use once preceding any of the following:

8-12.4.OPT1.GB8 (Cable Fence)
(April 6, 2015)
Use in projects with cable fence. Include with **8-12.2.OPT6.GB8, 8-12.3.OPT1(B).GB8, and 8-12.5.OPT6.GB8**. Include with **8-12.3.OPT1(A).GB8** when anchoring the cable fence posts to existing concrete structures. Include with **8-12.3.OPT1(C).GB8** when painting of the galvanized fence posts is required.

**8-12.5.GR8 Payment**

8-12.5.INST1.GR8 (Section 8-12.5 is supplemented with the following)
Must use once preceding any of the following:

8-12.5.OPT1.GR8 (Coated chain link fence)
(April 1, 2002)
Use in projects requiring the construction of coated chain link fence.

8-12.5.OPT6.GB8 (Cable Fence)
(April 6, 2015)
Use in projects with cable fence. Include with **8-12.2.OPT6.GB8, 8-12.3.OPT1(B).GB8, and 8-12.4.OPT1.GB8**. Include with **8-12.3.OPT1(A).GB8** when anchoring the cable fence posts to existing concrete structures. Include with **8-12.3.OPT1(C).GB8** when painting of the galvanized fence posts is required.

**8-13.GR8 Monument Cases**

**8-13.1.GR8 Description**

8-13.1.INST1.GR8 (Section 8-13.1 is deleted and replaced by the following)
Must use once preceding any of the following:

8-13.1.OPT1.GR8 (Monument pipes included in work)
(March 13, 1995)
Must also use **8-13.2.OPT1.GR8, ~~8-13.3.OPT1.GR8,~~ 8-13.4.OPT1.GR8** and **8-13.5.OPT1.GR8**.
Use in projects requiring that the monument pipes be installed by the Contractor.

**8-13.2.GR8 Materials**

8-13.2.INST1.GR8 (Section 8-13.2 is supplemented with the following)
Must use once preceding any of the following:

8-13.2.OPT1.GR8 (Monument pipes included in work)
(March 13, 1995)
Must include with **8-13.1.OPT1.GR8**.
Use in projects requiring that the monument pipes be installed by the Contractor.

**8-13.3.GR8 Construction Requirements**

**8-13.3(1).GR8 Monument Case and Cover**

8-13.3(1).INST1.GR8 (The last paragraph of Section 8-13.3(1) is revised to read)
Must use once preceding any of the following:

8-13.3(1).OPT1.GR8 (Monument pipes included in work)
(March 13, 1995)
Use in projects requiring that the monument pipes be installed by the Contractor.
Must include with **8-13.1.OPT1.GR8**.

**8-13.3(2).GR8 Adjust Monument Case and Cover**

**8-13.3(2)B.GR8 Reinstalling Monument Case and Cover**

8-13.3(2)B.INST1.GR8 (The first sentence of Section 8-13.3(2)B is revised to read)
Must use once preceding any of the following:

8-13.3(2)B.OPT1.GR8 (October 3, 2022)
Use in projects where it is desired to reinstall the monument case ¼" lower than grade, such as routes that are subjected to frequent snow plowing.

**8-13.4.GR8 Measurement**

8-13.4.INST1.GR8 (Section 8-13.4 is deleted and replaced by the following)
Must use once preceding any of the following:

8-13.4.OPT1.GR8 (Monument pipes included in work)
(March 13, 1995)
Must include with **8-13.1.OPT1.GR8**.
Use in projects requiring that the monument pipes be installed by the Contractor.

**8-13.5.GR8 Payment**

8-13.5.INST1.GR8 (Section 8-13.5 is supplemented with the following)
Must use once preceding any of the following:

8-13.5.OPT1.GR8 (Monument pipes included in work)
(April 28, 1997)
Must include with **8-13.1.OPT1.GR8**.
Use in projects requiring that the monument pipes be installed by the Contractor.

**8-14.GR8 Cement Concrete Sidewalks**

**8-14.2.GR8 Materials**

8-14.2(9-19.1).GR8 (Surface Applied Detectable Warning Surface)

8-14.2(9-19.1(1).GR8 (General Requirements)
(The first paragraph of Section 9-19.1(1) is revised to read)
Must use once preceding any of the following:

8-14.2(9-29.1(1)).OPT1.FR8 (Alternative color for detectable warning surfaces)
(October 3, 2022)
Use in projects where the color for detectable warning surfaces will not be yellow.
(1 fill-in)
Fill-in #1 is the color of the detectable warning surface.

8-14.2(9-19.2).GR8 (Cast-in-Place Detectable Warning Surface)

8-14.2(9-19.2(1).GR8 (General Requirements)
(The first paragraph of Section 9-19.2(1) is revised to read)
Must use once preceding any of the following:

8-14.2(9-29.2(1)).OPT1.FR8 (Alternative color for detectable warning surfaces)
(October 3, 2022)
Use in projects where the color for detectable warning surfaces will not be yellow.

(1 fill-in)
Fill-in #1 is the color of the detectable warning surface.

~~**8-14.1.GR8 Description**~~

~~8-14.1.INST1.GR8 (Section 8-14.1 is revised to read)~~
~~Must use once preceding any of the following:~~

~~8-14.1.OPT1.GR8 (ADA Feature work)~~
~~(April 3, 2017)~~
~~Use in all projects that require any ADA Feature work.~~
~~Must use with **1-05.4.OPT4.GR1**, **8-14.3.OPT2.GR8**, and **8-14.3.OPT3.GR8**.~~

**8-14.3.GR8 Construction Requirements**

8-14.3.INST1.GR8 (Section 8-14.3 is supplemented with the following)
Must use once preceding any of the following:

8-14.3.OPT1.GR8 (Pre-construction meeting for cement concrete sidewalks, curb ramps or other pedestrian access routes to discuss ADA issues before Work begins)
(~~April 3, 2017~~October 3, 2022)

Use in projects where pedestrian access route Work (cement concrete sidewalks, curb ramps or other pedestrian access) is proposed and it is felt that a pre-construction meeting is needed by Region Construction Office to discuss ADA compliance.

8-14.3.OPT2.GR8 (Timing Restrictions)
(January 7, 2019)
Use in all projects that require any ADA Feature work where the closure of pedestrian routes is subject to time restrictions.~~sidewalk, curb ramp, or bus stop closures are required to perform the work.~~
Must use with **1-05.4.OPT4.GR8**, ~~**8-14.1.OPT1.GR8**,~~ and **8-14.3.OPT3.GR8**.

8-14.3.OPT3.GR8 (Layout and Conformance to Grades)
(January 7, 2019)
Use in all projects that require any ADA Feature work. Use with **1-05.4.OPT4.GR8**, ~~**8-14.1.OPT1.GR8**,~~ and **8-14.~~3~~1.OPT~~2~~1.GR8**.

~~**8-14.3(5).GR8 Detectable Warning Surface**~~

~~8-14.3(5).INST1.GR8 (The first paragraph of Section 8-14.3(5) is revised to read:)~~
~~Must use once preceding any of the following:~~

~~8-14.3(5).OPT1.GR8 (January 13, 2021)~~
~~Use in all projects constructing detectable warning surfaces.~~

## 8-15.GR8 Riprap

### 8-15.4.GR8 Measurement

8-15.4.INST1.GR8 (Section 8-15.4 is supplemented with the following)
Must use once preceding any of the following:

8-15.4.OPT3.GR8 (Special excavation)
(March 13, 1995)
Must also use **8-15.5.OPT8.GR8**.
Use in projects requiring excavation outside the limits of structure excavation for riprap at bridge piers located within streams.

8-15.4.OPT5.GR8 (Excavation for riprap is included in cost of riprap)
(The last paragraph of Section 8-14.5 is deleted)
(February 5, 2001)
Must also use **8-15.5.OPT1.GR8**.
Use in projects with small quantities of riprap or upon recommendation of the Construction and Materials Division.

### 8-15.5.GR8 Payment

8-15.5.INST1.GR8 (The first sentence of the second paragraph of Section 8-15.5 is revised to read)
Must use once preceding any of the following:

8-15.5.OPT1.GR8 (Excavation for riprap is included in cost of riprap)
(March 13, 1995)
Must include with **8-15.4.OPT5.GR8**.
Use in projects with small quantities of riprap or upon recommendation of the Construction and Materials Division.

8-15.5.INST2.GR8 (Section 8-15.5 is supplemented with the following)
Must use once preceding the following:

8-15.5.OPT8.GR8 (Special excavation)
(September 30, 1996)
Must include with **8-15.4.OPT3.GR8**.
Use in projects requiring excavation outside the limits of structure excavation for riprap at bridge piers located within streams.

**8-16.GR8 Concrete Slope Protection**

**8-16.3.GR8 Construction Requirements**

**8-16.3(2).GR8 Placing Semi-Open Concrete Masonry Units**

8-16.3(2).INST1.GR8 (Section 8-16.3(2) is supplemented with the following)
Must use once preceding any of the following:

8-16.3(2).OPT1.GR8 (Requirements for semi-open precast masonry units)
(December 19, 2005)
Must include with **8-16.5.OPT1.GR8**.
Use in projects requiring semi-open concrete masonry slope protection.

**8-16.5.GR8 Payment**

8-16.5.INST1.GR8 (Section 8-16.5 is supplemented with the following)
Must use once preceding any of the following:

8-16.5.OPT1.GR8 (Semi-open Conc. Masonry Slope Protection)
(September 30, 1996)
Must include with **8-16.3(2).OPT1.GR8**.
Use in projects requiring semi-open concrete masonry slope protection.

**8-20.GR8 Illumination, Traffic Signal Systems, Intelligent Transportation Systems, and Electrical**

**8-20.2.GR8 Materials**

8-20.2.INST1.GR8 (Section 8-20.2 is supplemented with the following)
Must use once preceding any of the following:

8-20.2.OPT1.GB8 (Traffic Signal Shaft Foundation Shaft Casing and Slurry)
(April 6, 2015)
Use in traffic signal projects with shaft foundations in weak soils, with the concurrence of the Materials Laboratory Geotechnical Branch. Include with **8-20.3(4).OPT1.FB8 and 8-20.5.OPT1.GB8**.

8-20.2(9-29.1).GR8 (Conduit, Innerduct, and Outerduct)

8-20.2(9-29.1(11)).GR8 (Foam Conduit Sealant)
(Section 9-29.1(11) is supplemented with the following)
Must use once preceding any of the following:

8-20.2(9-29.1(11)).OPT1.GR8(January 7, 2019)
Use in projects where new conduit is installed, wiring is added to existing conduit, or wiring is removed from existing conduit.

8-20.2(9-29.2).GR8 (Junction Boxes, Cable Vaults, and Pull Boxes)
(Section 9-29.2 is supplemented with the following:)
Must use once preceding any of the following:

8-20.2(9-29.2).OPT1.GR8 (Slip-Resistant Surfacing)
(September 3, 2019)
Use in projects where junction boxes, cable vaults, pull boxes, or Structure mounted boxes require slip-resistant surfacing.

~~8-20.2(9-29.2(3)).GR8 (Structure Mounted Junction Box)~~
~~(The first sentence of the third paragraph of Section 9-29.2(3) is revised to read)~~
~~Must use once preceding any of the following:~~

~~8-20.2(9-29.2(3)).OPT1.2023.GR8(September 13, 2021)~~
~~Use in all projects with junction boxes.~~

8-20.2(9-29.6).GR8 (Light and Signal Standards)
(Section 9-29.6 is supplemented with the following)
Must use once preceding any of the following:

8-20.2(9-29.6).OPT1.GR8 Light Standards With Type 1 Luminaire Arms
(January 13, 2021)
Use in projects requiring Type 1 luminaire arms and the Engineer is not required to verify the H1 distances shown in the Plans.

8-20.2(9-29.6).OPT2.GR8 Light Standards With Type 1 Luminaire Arms
(January 13, 2021)

Use in projects requiring Type 1 luminaire arms and H1 distances are not shown in the Plans or the Engineer is required to verify the H1 distances shown in the Plans.

8-20.2(9-29.6).OPT5.GR8 Traffic Signal Standards
(January 10, 2022)
Use in projects requiring traffic signal standards, or combination traffic signal/light standards with Type 1 luminaire arms, or both.

8-20.2(9-29.6(5)).GR8 (Foundation Hardware)
(Section 9-29.6(5) is supplemented with the following)
Must use once preceding any of the following:

8-20.2(9-29.6(5)).OPT1.GR8 (January 13, 2021)
Use in all projects where light standards are to be installed.

8-20.2(9-29.13).GR8 (Control Cabinet Assemblies)
(Section 9-29.13 is supplemented with the following)
Must use once preceding any of the following:

8-20.2(9-29.13).OPT1.GR8 Uninterruptible Power Supply (UPS)
(January 2, 2018)
With Region Traffic Engineer approval, use in projects where Uninterruptible Power Supply (UPS) cabinets are required. Include with **8-20.3(14).OPT1.GR8.**

8-20.2(9-29.13(11)).GR8 (Traffic Data Accumulator and Ramp Meters)
(Section 9-29.13(11) is supplemented with the following)
Must use once preceding any of the following:

8-20.2(9-29.13(11)).OPT1.GR8 (July 6, 2021)
Use in all projects where a Ramp Meter or ITS Data Station controller is required.

8-20.2(9-29.15).GR8 (Flashing Beacon Control)
(Section 9-29.15 is supplemented with the following)
Must use once preceding any of the following:

8-20.2(9-29.15).OPT1.GR8 Rapid Flashing Beacons (RFB)
(January 7, 2019)
Use in projects where Rectangular Rapid Flashing Beacons (RRFBs) are required.

8-20.2(9-29.19).GR8 (Pedestrian Push Buttons)
(Section 9-29.19 is supplemented with the following)
Must use once preceding any of the following:

8-20.2(9-29.19).OPT1.GR8 Accessible Pedestrian Signal (APS) Pushbuttons
(June 29, 2022)

Use in projects requiring accessible pedestrian signal (APS) pushbuttons. Do not use for RRFB system pushbuttons.

Include speech message programming table in Contract Plans – one table for each signal system.

See https://wsdot.wa.gov/engineering-standards/design-topics/traffic-illumination-traffic-signals-and-intelligent-transportation-systems-its, specification section, for instructions for filling out the tables.

**8-20.2(1).GR8 Equipment List and Drawings**

8-20.2(1).INST1.GR8 (Section 8-20.2(1) is supplemented with the following)
Must use once preceding any of the following:

8-20.2(1).OPT1.GR8 (Light standards when H1 dimension is shown on the Plans)
(March 13, 1995)
Use in projects with illumination systems and the lighting standard H1 dimension is shown in the Plans and verification by the Engineer is not required prior to fabrication.

8-20.2(1).OPT2.GR8 (Light standards when H1 dimension is not Shown on the Plans or must be verified prior to fabrication)
(March 13, 1995)
Use in projects with illumination systems and the lighting standard H1 dimension is not shown in the Plans or the dimension shown in the Plans must be verified by the Engineer prior to fabrication.

8-20.2(1).OPT3.GR8 (Traffic signal standards, strain pole standards or combination traffic signal/lighting standards)
(March 13, 1995)
Use in projects with traffic signal systems when standards are to be installed.

**8-20.3.GR8 Construction Requirements**

**8-20.3(4).GR8 Foundations**

8-20.3(4).INST1.GR8 (Section 8-20.3(4) is supplemented with the following)
Must use once preceding any of the following:

8-20.3(4).OPT1.FB8 (Shafts for Signal Standard Foundations)
(August 7, 2017)
Use in traffic signal projects with shaft foundations in weak soils, with the concurrence of the Materials Laboratory Geotechnical Branch. The fill-in specifies

the location(s) of the shaft(s) requiring construction under these construction requirements. Include with **8-20.2.OPT1.GB8 and 8-20.5.OPT1.GB8**.
(One fill-in).

8-20.3(8).GR8 **Wiring**

8-20.3(8).INST1.GR8 (Section 8-20.3(8) is supplemented with the following)
Must use once preceding any of the following:

8-20.3(8).OPT1.GR8 Field Wiring Chart
(March 13, 1995)
Use in projects with traffic signal systems.

**8-20.3(14).GR8 Signal Systems**

8-20.3(14).INST1.GR8 (Section 8-20.3(14) is supplemented with the following)
Must use once preceding any of the following:

8-20.3(14).OPT1.GR8 Uninterruptible Power Supply (UPS)
(January 2, 2018)
With Region Traffic Engineer approval use in projects where Uninterruptible Power Supply (UPS) cabinets are required. Include with **8-20.2(9-29.13).OPT1.GR8**

**8-20.3(14)A.GR8 Signal Controllers**

8-20.3(14)A.INST1.GR8 (Supplemental Instructions)
Must use once preceding any of the following:

8-20.3(14)A.OPT1.GR8 Testing
(August 2, 2010)
Use in projects with Contractor furnished signal controllers.

**8-20.5.GR8 Payment**

8-20.5.INST1.GR8 (Section 8-20.5 is supplemented with the following)
Must use once preceding any of the following:

8-20.5.OPT1.GB8 (Removing Traffic Signal Shaft Obstructions)
(April 6, 2015)
Use in traffic signal projects with shaft foundations in weak soils, with the concurrence of the Materials Laboratory Geotechnical Branch. Include with **8-20.2.OPT1.GB8 and 8-20.3(4).OPT1.FB8**.

**8-21.GR8 Permanent Signing**

**8-21.2.GR8 Materials**

8-21.2(9-06.16).GR8 (Roadside Sign Structures)
(Section 9-06.16 is supplemented with the following)

Must use once preceding the following:

8-21.2(9-06.16).OPT1.GR8 (January 3, 2011)
Use in projects with perforated steel square sign posts.

8-21.2(9-28.11).GR8 (Hardware**)**
(Section 9-28.11 is supplemented with the following)
Must use once preceding any of the following:

8-21.2(9-28.11).OPT1.GB8 (Overhead Sign Structure Locknuts)
(August 3, 2015)
Use in all projects with overhead sign structures (sign bridge, cantilever sign structure, bridge mounted sign bracket).

8-21.2(9-28.12).GR8 (Reflective Sheeting**)**
(Section 9-28.12 is revised to read)
Must use once preceding any of the following:

8-21.2(9-28.12).OPT1.2024.GR8 (October 3, 2022)
Use in all projects.

8-21.2(9-28.14).GR8 (Sign Support Structures**)**
(Section 9-28.14 is supplemented with the following)
Must use once preceding any of the following:

8-21.2(9-28.14).OPT6.GR8 (Roadside Signing Material and Fabrication)
(September 8, 2020)
Use in all projects that have steel sign supports.

**8-21.3.GR8 Construction Requirements**

**8-21.3(9).GR8 Sign Structures**

**8-21.3(9)A.GR8 Fabrication of Sign Structures**

**8-21.3(9)A1.GR8 Fabrication of Monotube Sign Bridges and Cantilever Sign Structures**

8-21.3(9)A1.INST1.GR8 (Section 8-21.3(9)A1 is supplemented with the following)
Must use once preceding any of the following:

8-21.3(9)A1.OPT1.FB8 (Non-Conventional Paint Color)
(September 8, 2020)
Use in projects with monotube sign bridges and/or monotube cantilever sign structures painted a color other than the conventionally specified gray color. Include with **8-21.4.OPT1.FB8**. The fill-in specifies the SAE AMS Standard 595 color number, or the color name if no number.
(1 fill-in)

**8-21.3(9)E.GR8 Bridge Mounted Sign Brackets**

8-21.3(9)E.INST1.GR8 (Section 8-21.3(9)E is supplemented with the following)
Must use once preceding any of the following:

8-21.3(9)E.OPT1.FB8 (Bridge Mounted Sign Brackets)
(April 6, 2015)
Use in projects with bridge mounted sign brackets. The first and third fill-ins specify the sign bracket number(s). The second fill-in itemizes the structural carbon steel quantity for each sign bracket. The fourth fill-in specifies the quantity of hole drilling required for the resin bonded anchors for each sign bracket.
(4 fill-ins)

**8-21.3(9)F.GR8 Foundations**

**8-21.3(9)F1.GR8 Fabrication of Monotube Sign Bridges and Cantilever Sign Structures**

8-21.3(9)F1.INST1.GR8 (Section 8-21.3(9)F1 is supplemented with the following)
Must use once preceding any of the following:

8-21.3(9)F1.OPT1.FB8 (Temporary Casing Requirements)
(September 8, 2020)
Use in sign structure projects with shaft foundations where the shaft diameter is 48 inches or greater, or where the shaft depth is 15 feet or greater, or where the Materials Laboratory Geotechnical Branch identifies the foundation soils as sufficiently weak to require use of this specification. The fill-in specifies the location(s) of the shaft(s) requiring construction under these construction requirements.
(1 fill-in)

**8-21.4.GR8 Measurement**

8-21.4.INST1.GR8 (Section 8-21.4 is supplemented with the following)
Must use once preceding any of the following:

8-21.4.OPT1.FB8 (Monotube Sign Structures)
(September 8, 2020)
Use in projects with monotube sign bridges and/or monotube cantilever sign structures. The first fill in specifies the type of sign structure work included (sign bridge or cantilever sign structure or both). The second fill-

in itemizes the quantities and work involved with each sign structure.
(2 fill-ins)

~~**8-22.GR8 Pavement Marking**~~

~~**8-22.4.GR8 Measurement**~~

~~8-22.4.INST1.GR8 (Section 8-22.4 is supplemented with the following)~~
~~Must use once preceding any of the following:~~

~~8-22.4.OPT1.2023.GR8 (January 10, 2022)~~
~~Use in all projects with Wide Dotted Entry Line.~~

~~8-22.4.INST2.GR8 (The fourth and fifth paragraphs of Section 8-22.4 are revised to read)~~
~~Must use once preceding any of the following:~~

~~8-22.4.OPT2.2023.GR8 (January 10, 2022)~~
~~Use in all projects with pavement markings.~~

~~8-22.4.INST3.GR8 (The second to last paragraph of Section 8-22.4 is revised to read)~~
~~Must use once preceding any of the following:~~

~~8-22.4.OPT3.2023.GR8 (January 10, 2022)~~
~~Use in all projects with pavement markings.~~

~~**8-22.5.GR8 Payment**~~

~~8-22.5.INST1.GR8 (Section 8-22.5 is supplemented with the following)~~
~~Must use once preceding any of the following:~~

~~8-22.5.OPT1.2023.GR8 (January 10, 2022)~~
~~Use in all projects with 12" wide lines, including Wide Dotted Entry Line.~~

**8-23.GR8 Temporary Pavement Markings**

**8-23.2.GR8 Materials**

8-23.2(9-34).GR8 (Pavement Marking Material)
(Section 9-34 is supplemented with the following)
Must use once preceding any of the following:

8-23.2(9-34).OPT1.GR8 (October 3, 2022)
Consider including temporary adhesive transverse rumble strips when a project has temporary signals on two lane highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include **8-23.3(4)A.OPT1.GR8**, **8-23.4.OPT1.GR8**, and **8-23.5.OPT1.GR8**.

**8-23.3.GR8 Construction Requirements**

**8-23.3(4).GR8 Pavement Marking Application**

**8-23.3(4)A.GR8 Temporary Pavement Markings – Short Duration**

8-23.3(4)A.INST1.GR8 (Section 8-23.3(4)A is supplemented with the following)
Must use once preceding any of the following:

8-23.3(4)A.OPT1.GR8 (Temporary Adhesive Transverse Rumble Strips)
(October 3, 2022)
Consider including temporary adhesive transverse rumble strips when a project has temporary signals on two lane highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include **8-23.2(9-34).OPT1.GR8**, **8-23.4.OPT1.GR8**, and **8-23.5.OPT1.GR8**.

**8-23.4.GR8 Measurement**

8-23.4.INST1.GR8 (Section 8-23.4 is supplemented with the following)
Must use once preceding any of the following:

8-23.4.OPT1.GR8 (Temporary Adhesive Transverse Rumble Strips)
(October 3, 2022)
Consider including temporary adhesive transverse rumble strips when a project has temporary signals on two lane highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include **8-23.2(9-34).OPT1.GR8**, **8-23.3(4)A.OPT1.GR8**, and **8-23.5.OPT1.GR8**.

**8-23.5.GR8 Payment**

8-23.5.INST1.GR8 (Section 8-23.5 is supplemented with the following)
Must use once preceding any of the following:

8-23.5.OPT1.GR8 (Temporary Adhesive Transverse Rumble Strips)
(October 3, 2022)
Consider including temporary adhesive transverse rumble strips when a project has temporary signals on two lane highways. Use in all projects when temporary adhesive Rumble Strips are shown on the traffic control plans. Must also include **8-23.2(9-34).OPT1.GR8**, **8-23.3(4)A.OPT1.GR8**, and **8-23.4.OPT1.GR8**.

**8-24.GR8 Rock and Gravity Block Wall, and Gabion Cribbing**

**8-24.2.GR8 Materials**

8-24.2.INST1.GR8 (Section 8-24.2 is supplemented with the following)
Must use once preceding any of the following:

8-24.2.OPT1.GR8 (Gravity Block Wall)
(January 7, 2002)
Use in projects constructing gravity block walls. Include with **8-24.3(2).OPT1.GR8.**

**8-24.3.GR8 Construction Requirements**

**8-24.3(2).GR8 Gravity Block Wall**

8-24.3(2).INST1.GR8 (Section 8-24.3(2) is supplemented with the following)
Must use once preceding any of the following:

8-24.3(2).OPT1.GR8 (Gravity Block Wall)
(January 7, 2002)
Use in projects constructing gravity block walls. Include with **8-24.2.OPT1.GR8.**

**8-25.GR8 Glare Screen**

**8-25.1.GR8 Description**

8-25.1.INST1.GR8 (Section 8-25.1 is supplemented with the following)
Must use once preceding any of the following:

8-25.1.OPT1.GR8 (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
**8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, 8-25.4.OPT1.GR8, and 8-25.5.OPT1.GR8**.

**8-25.2.GR8 Materials**

8-25.2.INST1.GR8 (Section 8-25.2 is supplemented with the following)
Must use once preceding any of the following:

8-25.2.OPT1.GR8 (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
Must use with **8-25.1.OPT1.GR8, 8-25.3.OPT1.GR8, 8-25.4.OPT1.GR8, and 8-25.5.OPT1.GR8**.

**8-25.3.GR8 Construction Requirements**

8-25.3.INST1.GR8 (Section 8-25.3 is supplemented with the following)
Must use once preceding any of the following:

8-25.3.OPT1.GR8 (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
**8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.4.OPT1.GR8, and 8-25.5.OPT1.GR8**.

**8-25.4.GR8 Measurement**

8-25.4.INST1.GR8 (Section 8-25.4 is supplemented with the following)
Must use once preceding any of the following:

8-25.4.OPT1.GR8 (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
**8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, and 8-25.5.OPT1.GR8**.

**8-25.5.GR8 Payment**

8-25.5.INST1.GR8 (Section 8-25.5 is supplemented with the following)
Must use once preceding any of the following:

8-25.5.OPT1.GR8 (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
**8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, and 8-25.4.OPT1.GR8**.

**8-29.GR8 Wire Mesh Slope Protection**

**8-29.1.GR8 Description**

8-29.1.INST1.GR8 (Section 8-29.1 is supplemented with the following)
Must use once preceding any of the following:

8-29.1.OPT1.GR8 (Cable Net Slope Protection)
(April 5, 2010)
Use in projects with cable net slope protection. Include with **8-29.2.OPT1.GR8, 8-29.3.OPT1.GR8, 8-29.4.OPT1.GR8 and 8-29.5.OPT1.GR8**.

**8-29.2.GR8 Materials**

8-29.2.INST1.GR8 (Section 8-29.2 is supplemented with the following)
Must use once preceding any of the following:

8-29.2.OPT1.GR8 (Cable Net Slope Protection Materials)
(January 2, 2018)
Use in projects with cable net slope protection. Include with **8-29.1.OPT1.GR8, 8-29.3.OPT1.GR8, 8-29.4.OPT1.GR8 and 8-29.5.OPT1.GR8**.

**8-29.3.GR8 Construction Requirements**

8-29.3.INST1.GR8 (Section 8-29.3 is supplemented with the following)
Must use once preceding any of the following:

8-29.3.OPT1.GR8 (Cable Net Slope Protection Construction Requirements)
(January 3, 2011)

Use in projects with cable net slope protection. Include with **8-29.1.OPT1.GR8, 8-29.2.OPT1.GR8, 8-29.4.OPT1.GR8 and 8-29.5.OPT1.GR8**.

**8-29.4.GR8 Measurement**

8-29.4.INST1.GR8 (Section 8-29.4 is supplemented with the following)
Must use once preceding any of the following:

8-29.4.OPT1.GR8 (Cable Net Slope Protection)
(April 5, 2010)
Use in projects with cable net slope protection. Include with **8-29.1.OPT1.GR8, 8-29.2.OPT1.GR8, 8-29.3.OPT1.GR8, and 8-29.5.OPT1.GR8**.

**8-29.5.GR8 Payment**

8-29.5.INST1.GR8 (Section 8-29.5 is supplemented with the following)
Must use once preceding any of the following:

8-29.5.OPT1.GR8 (Cable Net Slope Protection)
(January 3, 2011)
Use in projects with cable net slope protection. Include with **8-29.1.OPT1.GR8, 8-29.2.OPT1.GR8, 8-29.3.OPT1.GR8, and 8-29.4.OPT1.GR8**.

## 8-31.GR8 Temporary Stream Diversion

### 8-31.3.GR8 Construction Requirements

#### 8-31.3(1).GR8 General

##### 8-31.3(1)A.GR8 General TSD Requirements

8-31.3(1)A.INST1.GR8 (Section 8-31.3(1)A is supplemented with the following)
Must use once preceding any of the following:

8-31.3(1)A.OPT1.FR8 (Minimum Stream Flows)
(October 3, 2022)
Use in all projects requiring a temporary stream diversion. Contact the HQ Hydraulics Office for fill-in information.
If a contingency system is required, must also use **8-31.3(1)A.OPT2.FR8**.
(1 fill-in)
Fill-in #1 is the minimum flow rate for the temporary stream diversion.

8-31.3(1)A.OPT2.FR8 (Minimum Stream Flows (Contingency System))
(October 3, 2022)
Use in all projects requiring a contingency system for temporary stream. Contact the HQ Hydraulics Office for fill-in information.

Must also use **8-31.3(1)A.OPT1.FR8**.
(1 fill-in)
Fill-in #1 is the minimum flow rate for the contingency system.

**8-31.3(3).GR8** **Fish Block Net Installation and Fish and Aquatic Species Exclusion**

**8-31.3(3)B.GR8** **Contracting Agency Provided Materials**

8-31.3(1)B.OPT1.FR8 (Contracting Agency Furnished Materials)
(October 3, 2022)
Use in all projects where the Contracting Agency is supplying fish exclusion materials such as nets, sandbags, posts, or other materials required to complete fish exclusion including installing fish block nets.
(1 fill-in)
Fill-in #1 is the materials that will be supplied by the Contracting Agency.

**8-SA1.GR8** **Field Office Building**
(August 7, 2017)
Use in projects when a field office building is required.

**8-SA2.GR8** **Bollards**
(~~January 2, 2018~~October 3, 2022)
Use in projects requiring bollards.
Contact Headquarters Design Standard Plans Office for plan details on Type 3 Bollards.

**8-SA3.GR8** **(Environmental Compliance)**
(August 6, 2018)
For use on projects where the project has a high risk of soil erosion due to soil type, slope gradiant and work in or has proximity to waters of the State (Hydraulics Runoff Manual (HRM) defines projects susceptible for high-risk soil erosion). Also for use on projects where there is extensive monitoring of environmental permit compliance.
The Region Construction Engineer and Region Environmental Office should be consulted for use as the provision introduces an Environmental Compliance Lead person that incorporates, expands, and replaces the duties of the ESC Lead person.

**8-SA4.FR8** **(Water Crossings)**
(October 3, 2022)
For use on projects that include Work within stream channels.
Must use with **8-SA4(9-03.11).GR8**.

(1 fill-in)
See template file at https://wsdot.wa.gov/publications/fulltext/projectdev/gspspdf/8-SA4_Fill-In.docx for starting point. Contact HQ Hydraulics for fill in information to indicate the percentage of blends for streambed aggregates, coarse bands, coarse bars, meander bars, boulder cluster, or fine band material.

**8-SA4(9-03.11).GR8 (Streambed Aggregates)**

Must use with **8-SA4.FR8**.

**8-SA5.GR8 (Woody Material)**

(October 3, 2022)

For use on projects that have logs with or without rootwads or slash materials.

8-01.GR8

## Erosion Control and Water Pollution Control

8-01.3.GR8

## Construction Requirements

8-01.3(1).GR8

### *General*

8-01.3(1).INST1.GR8

The tenth paragraph of Section 8-01.3(1) is revised to read:

8-01.3(1).OPT1.GR8

**(January 25, 2010)**

**Erodible Soil Eastern Washington**

Erodible soil not being worked whether at final grade or not, shall be covered within the following time period using an approved soil cover practice:

| | |
|---|---|
| July 1 through September 30 | 30 days |
| October 1 through June 30 | 15 days |

8-01.3(1).INST2.GR8

Section 8-01.3(1) is supplemented with the following:

8-01.3(1).OPT8.FR8

**(April 1, 2002)**

**Side Slope Treatment**

Slopes shall be compacted within *** $$1$$ *** days of exposure of a new section of cut and construction of a new portion of an embankment.

8-01.3(1)B.GR8

**Erosion and Sediment Control (ESC) Lead**

8-01.3(1)B.INST1.GR8

Item number 3 and 4 in the second paragraph of Section 8-01.3(1)B are revised to read:

8-01.3(1)B.OPT1.GR8

(October 3, 2022)

3. Submit to the Engineer no later than the end of the next working day following the inspection a TESC Inspection Report that includes:

   a. When, where, and how BMPs were installed, maintained, modified, and removed.

   b. Observations of BMP effectiveness and proper placement.

   c. Recommendations for improving future BMP performance with upgraded or replacement BMPs when inspections reveal TESC BMP deficiencies.

d. Identify for each discharge point location whether there is compliance with state water quality standards in WAC 173-201A for turbidity and pH.

8-01.3(1)C.GR8

**Water Management**

8-01.3(1)C4.GR8

**Management of Off-Site Water**

8-01.3(1)C4.INST1.GR8

Section 8-01.3(1)C4 is supplemented with the following:

8-01.3(1)C4.OPT1.FR8

**(August 6, 2012)**

**Off-site Stormwater**

Stormwater is known to enter the project site at the following locations:

*** $$1$$ ***

8-01.3(2).GR8

***Temporary Seeding and Mulching***

8-01.3(2)B.GR8

**Temporary Seeding**

8-01.3(2)B.INST1.GR8

Section 8-01.3(2)B is supplemented with the following:

8-01.3(2)B.OPT1.FR8

(August 4, 2014)

Seed of the following mix, rate, and analysis shall be applied at the rates shown below on all areas requiring ***$$1$$*** seeding within the project:

| Seed by Common Name and (Botanical name) | Pounds Pure Live Seed (PLS) Per Acre |
|---|---|
| *** $$2$$ | $$ |
| $$ | $$ |
| $$ | $$ |
| Total | $$ *** |

The seed shall be certified in accordance with WAC 16-302 and meet the following requirements:

| | |
|---|---|
| Prohibited Weed | 0% max. |
| Noxious Weed | 0% max. |

| | |
|---|---|
| Other Weed | 0.20% max. |
| Other Crop | 0.40% max. |

8-01.3(2)B.OPT2.FR8

(August 4, 2014)

Seed of the following mix, rate, and analysis shall be applied at the rates shown below on all areas requiring ***$$1$$*** seeding within the project:

| Seed by Common Name, (Botanical Name), and "Source Identification" | Pounds Pure Live Seed (PLS) Per Acre |
|---|---|
| *** $$2$$ | $$ |
| $$ | $$ |
| $$ | $$ |
| Total | $$ *** |

Source Identified seed shall be generation four or less. Non-Source Identified seed shall meet or exceed Washington State Department of Agriculture Certified Seed Standards and be from within the appropriate genetic zones of the *** $$3$$ *** Ecoregion(s) as defined by the US Environmental Protection Agency (EPA).

The seed certification class shall be Certified (blue tag) in accordance with WAC 16-302 and meet the following requirements:

| | |
|---|---|
| Prohibited Weed | 0% max. |
| Noxious Weed | 0% max. |
| Other Weed | 0.20% max. |
| Other Crop | 0.40% max. |

The Contractor shall document all Source Identified seed by providing the Association of Official Seed Certifying Agents (AOSCA) yellow seed label for each species in the mix. Site Identification Logs can be supplied for collections where the AOSCA yellow label is not available.

8-01.3(2)B.OPT3.GR8

(September 3, 2019)

Grass seed shall be a commercially prepared mix, made up of low growing species which will grow without irrigation at the project location, and approved by the Engineer. The application rate shall be two pounds per 1000 square feet. Fertilizer shall be a commercially prepared mix of 10-20-20 and shall be applied at the rate of 10 pounds per 1000 square feet.

8-01.3(2)B.OPT4.FR8

(January 3, 2006)

Sufficient quantities of fertilizer shall be applied to supply the following amounts of nutrients:

Total Nitrogen as N - *** $$1$$ *** pounds per acre.

Available Phosphoric Acid as $P_2O_5$ - *** $$2$$ *** pounds per acre.

Soluble Potash as $K_2O$ - *** $$3$$ *** pounds per acre.

*** $$4$$ *** pounds of nitrogen applied per acre shall be derived from isobutylidene diurea (IBDU), cyclo-di-urea (CDU), or a time release, polyurethane coated source with a minimum release time of 6 months. The remainder may be derived from any source.

The fertilizer formulation and application rate shall be approved by the Engineer before use.

8-01.3(2)B.OPT8.FR8

(August 4, 2014)

Seed of the following mix, rate, and analysis shall be applied at the rates shown below on all areas requiring *** $$1$$ *** seeding within the project:

| Seed by Common Name, (Botanical Name), and "Source Identification" | Pure Live Seed Pounds (PLS) Per Acre |
|---|---|
| *** $$2$$ | $$ |
| $$ | $$ |
| $$ | $$ |
| Total | $$ *** |

Seed shall meet or exceed Washington State Department of Agriculture Certified Seed Standards and be from within the *** $$3$$ *** Ecoregion(s) as defined by the US Environmental Protection Agency (EPA).

The seed certification class shall be Certified (blue tag) in accordance with WAC 16-302 and meet the following requirements:

| | |
|---|---|
| Prohibited Weed | 0% max. |
| Noxious Weed | 0% max. |
| Other Weed | 0.20% max. |
| Other Crop | 0.40% max. |

8-01.3(2)D.GR8

**Temporary Mulching**

8-01.3(2)D.INST1.GR8

Section 8-01.3(2)D is supplemented with the following:

8-01.3(2)D.OPT1.FR8

(January 5, 2015)

*** $$1$$ *** shall be applied at a rate of *** $$2$$ *** pounds per acre with no more than *** $$3$$ *** pounds per acre applied in a single lift.

Page Intentionally Left Blank

8-02.GR8

## Roadside Restoration

8-02.1.GR8

### Description

8-02.1.INST1.GR8

Section 8-02.1 is supplemented with the following:

8-02.1.OPT1.GR8

(August 4, 2014)

This work shall consist of removing and disposing of buried previously fabricated debris that may be encountered during soil amendment incorporation or excavation for irrigation systems.

8-02.1.OPT2.GR8

(April 1, 2019)

This Work consists of supplying and applying a Biotic Soil Amendment (BSA) in accordance with these Specifications and as shown in the Plans or as designated by the Engineer.

8-02.2.GR8

### Materials

8-02.2.INST1.GR8

Section 8-02.2 is supplemented with the following:

8-02.2.OPT1.GR8

***(January 3, 2011)***

***Conservation Grade Plant Material***

Conservation grade plant material is defined as healthy plants that do not meet aesthetic standards as defined in ASNS. The plants have healthy, well-developed roots and in all other ways meet standards for healthy and vigorous growth. However, these plants may have multiple leaders, damaged or missing leaders, Y crotches, bent branches, or other unusual shapes or forms. These plants may be used where shown in the plans.

8-02.2.OPT2.GR8

(April 1, 2019)

Biotic Soil Amendments (BSAs), also known as biotic soil media and hydraulic growth medium, shall be soil amendments engineered to improve the development of deficient soils and to facilitate sustainable vegetation. BSAs shall consist of a blend of organic material, nutrient sources, soil building and biostimulant components. BSAs shall increase the water and nutrient holding capacity of the soil and promote the growth of beneficial microorganisms. BSAs shall provide for enhanced seed germination and vegetative establishment.

Biotic Soil Amendment shall be certified to be free of weed seeds and pathogens, free of plastic, composed of non-toxic materials, and be a pre-mixed formulation unaltered by synthetic materials.

The biotic soil amendment shall have a minimum of 90% organic matter (organic growth medium) and contain other materials designed to improve seed germination, vegetation

establishment and overall soil health. In addition to organic growth medium BSA shall include mycorrhizal fungi and a minimum of three of the following ingredients:

- Biochar
- Humus/Humic Acid
- Porous Ceramics or Water-holding Organic Polymers
- Seaweed Extract
- Beneficial Bacteria
- Micronutrients

The Contractor shall provide test results dated within 3 years prior to the date of application from an independent, accredited laboratory that has been recognized by an accrediting organization to test and evaluate products to product safety standards. The independent, accredited lab shall be free from commercial, financial, and other pressures that may influence the results of the testing and evaluation process. Test results shall show that the product meets the following table requirements:

Table 1: Biotic Soil Amendment Requirements

| BSA Properties | Test Methods | Requirements |
|---|---|---|
| **Physical** | | |
| Organic Matter | ASTM D586 | 90% minimum |
| pH | ASTM D1293 | 5.0 - 8.5 |
| C:N Ratio | ASTM E1508 | 10:1 minimum 50:1 maximum |
| Water-Holding Capacity[1] | ASTM D7367 | 400% minimum |
| Moisture Content | ASTM 2974 | 10% minimum, 50% maximum |
| **Environmental** | | |
| Acute Toxicity | EPA Method 2021.0 | Non-toxic |
| EPA Metal Limits | SW846-6020 04.06 | Pass |
| **Performance** | | |
| Growth Enhancement | ASTM D7322 | 500% minimum |

[1]Water holding capacity of the pre-packaged material without the addition of ancillary amendments.

### *Submittal Requirements*

At the time of delivery, the Contractor shall submit the specific biotic soil amendment packing list to the Engineer for acceptance. The packing list shall include complete identification including, but not limited to, the following information:

- Manufacturer name and location,
- Manufacturer telephone number and fax number,
- Manufacturer's e-mail address and web address, and
- BSA name.
- Certification that the specific BSA meets the physical, environmental and performance criteria of this specification and test results.

### *Acceptance*

Acceptance of the materials shall be based on:

1. Certificate of Compliance demonstrating adherence to the Specifications,
2. Visual inspection ensuring the material is free of plastic.

8-02.2(9-14).GR8

***Erosion Control and Roadside Planting***

8-02.2(9-14).INST1.GR8

Section 9-14 is supplemented with the following:

8-02.2(9-14).OPT1.FR8

**(January 3, 2011)**

**Weed Barrier Mats**

Weed Barrier Mats shall be 3 feet square. They shall be made of UV stabilized geotextile colored with carbon black and shall provide a minimum of 3 years of weed control. Weed Barrier Mats shall be 2.5 mils thick with a minimum of 400 micropores per square inch. Staples shall be a minimum of 11 gauge wire and be *** $$1$$ *** inches in length.

Acceptance will be based on a catalog cut.

~~8-02.2(9-14.1).GR8~~

~~**Materials Submittal and Acceptance**~~

~~In the table in Section 9-14.1, the row for Compost is revised to read:~~

~~8-02.2(9-14.1).OPT1.2023.GR8~~

~~(January 10, 2022)~~

| | | |
|---|---|---|
| ~~9-14.5(8)~~ | ~~Compost~~ | ~~Cert & following information is required to be submitted fourteen days prior to application.~~<br>~~a) A copy of the Solid Waste Handling Permit issued to the manufacturer by the Jurisdictional Health Department in accordance with https://apps.leg.wa.gov/WAC/default.aspx?cite=173-350 (Minimum Functional Standards for Solid Waste Handling).~~<br>~~b) Compost Test Data submitted on WSDOT Form 220-038 that show the compost complies with the processes, testing, and standards specified in WAC 173-350 and this section. An independent Seal of Testing Assurance (STA) Program certified laboratory shall perform the testing within 90 calendar days of application~~<br>~~c) A copy of the manufacturer's annual Seal of Testing Assurance STA certification as issued by the U.S. Composting Council.~~<br>~~d) A sample of the compost approved for use.~~<br>~~e) A list of feed stocks by volume for each compost type.~~<br>~~f) Compliance with the applicable section.~~ |

8-02.3.INST1.GR8

Section 8-02.3 is supplemented with the following:

8-02.3.OPT1.GR8

***(April 1, 2019)***

***Storage and Handling***

Biotic soil amendments in accordance with the above requirements shall be furnished by the manufacturer in pre-packaged, standard unopened containers with weight, name of plant nutrients and manufacturer's guaranteed statement of analysis clearly marked in accordance with State and Federal laws. Field mixing of BSA components will not be permitted. Containers shall be kept safe in storage protected from weather, excessive temperatures, and construction operations. Products shall be handled in compliance with any instructions or recommendations stated by the manufacturer. Any spills shall be promptly cleaned.

***Installation of Biotic Soil Amendment***

The Contractor shall comply with the equipment manufacturer's installation instructions and recommendations. Biotic soil amendment shall be hydraulically applied at the rate of 4000 pounds per acre with no more than 2500 pounds applied in any single lift. Lifts shall be applied from opposing directions to soil surface for uniform coverage. If recommended by the BSA manufacturer, seed, tackifier and/or fertilizer shall be added to the slurry as recommended by manufacturer or BSA shall be applied within 48 hours of the seeding operation. A continuous and uniform cover shall be provided to the depth specified by the manufacturer. Thin areas or areas of bare soil will not be allowed, and supplemental biotic soil amendment applied by the Contractor shall be at no additional cost to the Contracting Agency.

8-02.3(4).GR8

***Topsoil***

8-02.3(4)A.GR8

**Topsoil Type A**

8-02.3(4)A.INST1.GR8

Section 8-02.3(4)A is supplemented with the following:

8-02.3(4)A.OPT1.FR8

(August 3, 2015)

Topsoil Type A shall be placed to a non-compacted depth of *** $$1$$ *** inches. The topsoil shall be thoroughly blended prior to placement.

The Contractor shall submit a Type 1 Working Drawing consisting of independent test results from an accredited laboratory demonstrating the Topsoil Type A meets the requirements of Section 9-14.1(1). The Type 1 Working Drawing shall also include the Request for Approval of Material in accordance with Section 1-06.1(2).

8-02.3(5).GR8

***Roadside Seeding, Lawn and Planting Area Preparation***

8-02.3(5).INST1.GR8

Section 8-02.3(5) is supplemented with the following:

8-02.3(5).OPT1.FR8

(August 5, 2013)

After the initial planting area weed control, soil placement, grading, and the installation of irrigation lines are completed, and prior to planting, all designated planting areas shall be covered with compost.

Prior to placement of compost, the application methods shall be approved by the Engineer.

Compost shall not be placed when a condition exists, such as frozen or water saturated soil that may be detrimental to successful application or soil structure.

The Contractor shall notify the Engineer a minimum of five working days prior to the start of compost work.

Compost shall be uniformly and evenly placed in all designated areas at a depth of *** $$1$$ *** inches.

8-02.3(5).OPT2.FR8

(August 5, 2013)

After the initial planting area weed control, soil placement, and grading are completed, and prior to the installation of irrigation lines and planting, all designated planting areas shall be covered with compost.

Prior to placement and incorporation of compost, the application and incorporation methods shall be approved by the Engineer.

Compost shall not be placed when a condition exists, such as frozen soil or water saturated soil that may be detrimental to successful application, incorporation, or soil structure.

The Contractor shall notify the Engineer a minimum of five working days prior to the start of compost work.

Compost shall be uniformly and evenly placed in all designated areas at a depth of *** $$1$$ *** inches.

After placement of the compost, the Contractor shall incorporate the layer uniformly into the existing soil to a depth of *** $$2$$ *** inches.

8-02.3(5).OPT3.FR8

(August 5, 2013)

After initial area weed control, grading, and soil placement are completed, all soil shall be covered with compost.

Prior to the placement and incorporation of compost, the application and incorporation methods shall be approved by the Engineer.

Compost shall not be placed when a condition exists, such as frozen or water saturated soil that may be detrimental to successful application, incorporation, or soil structure.

The Contractor shall notify the Engineer a minimum of five working days prior to the start of compost work.

Compost shall be uniformly and evenly placed in all designated areas at a depth of *** $$1$$ *** inches.

After placement of the compost, the Contractor shall incorporate the layer uniformly into the existing soil to a depth of *** $$2$$ *** inches.

8-02.3(5).OPT4.GR8

**(August 4, 2014)**

**Removal of Buried Previously Fabricated Debris**

The Contractor shall remove buried previously fabricated debris as directed by the Engineer to a maximum depth of two feet. The excavated debris shall be removed from the project site to a disposal facility approved by the Engineer.

8-02.3(6).GR8

***Mulch and Amendments***

8-02.3(6)B.GR8

**Fertilizers**

8-02.3(6)B.INST1.GR8

Section 8-02.3(6)B is supplemented with the following:

8-02.3(6)B.OPT1.FR8

(September 3, 2019)

Sufficient quantities of fertilizer shall be applied to supply the following amounts of nutrients:

Total Nitrogen as N - *** $$1$$ *** pounds per acre.

Available Phosphoric Acid as $P_2O_5$ - *** $$2$$ *** pounds per acre.

Soluble Potash as $K_2O$ - *** $$3$$ *** pounds per acre.

*** $$4$$ *** pounds of nitrogen applied per acre shall be derived from isobutylidene diurea (IBDU), cyclo-di-urea (CDU), or a time release, polyurethane coated source with a minimum release time of 6 months. The remainder may be derived from any source.

The fertilizer formulation and application rate shall be approved by the Engineer before use.

8-02.3(6)B.OPT2.FR8

**(September 3, 2019)**

**First Application of Fertilizer**

Sufficient quantities of fertilizer shall be applied to supply the following amounts of nutrients:

Total Nitrogen as N - *** $$1$$ *** pounds per acre.

Available Phosphoric Acid as $P_2O_5$ - *** $$2$$ *** pounds per acre.

Soluble Potash as $K_2O$ - *** $$3$$ *** pounds per acre.

The fertilizer formulation and application rate shall be approved by the Engineer before use.

**Second Application of Fertilizer**

A second application of fertilizer shall be applied during the period of March 1 to April 15 or November 15 to December 15. In no instance shall the second application of fertilizer occur less than 90 days after the first fertilizer application.

Sufficient quantities of fertilizer shall be applied to supply the following amounts of nutrients:

Total Nitrogen as N - *** $$4$$ *** pounds per acre.

Available Phosphoric Acid as $P_2O_5$ - *** $$5$$ *** pounds per acre.

Soluble Potash as $K_20$ - *** $$6$$ *** pounds per acre.

*** $$7$$ *** pounds of nitrogen applied per acre shall be derived from isobutylidene diurea (IBDU), cyclo-di-urea (CDU), or a time release, polyurethane coated source with a minimum release time of 6 months. The remainder may be derived from any source.

The fertilizer formulation and application rate shall be approved by the Engineer before use.

8-02.3(6)B.OPT3.GR8

(September 3, 2019)

Fertilizer shall be a commercially prepared mix of 10-20-20 and shall be applied at the rate of 10 pounds per 1000 square feet.

8-02.3(6)B.OPT4.FR8

(September 3, 2019)

Sufficient quantities of fertilizer shall be applied to supply the following amounts of nutrients:

Total Nitrogen as N – *** $$1$$ *** pounds per acre.

Sulfur – *** $$2 $$ ***pounds per acre.

*** $$3$$ *** pounds of nitrogen applied per acre shall be derived from isobutylidene diurea (IBDU), cyclo-di-urea (CDU), or a time release, polyurethane coated source with a minimum release time of 6 months. The remainder may be derived from any source.

The fertilizer formulation and application rate shall be approved by the Engineer before use.

8-02.3(8).GR8

***Planting***

8-02.3(8).INST1.GR8

Section 8-02.3(8) is supplemented with the following:

8-02.3(8).OPT1.FR8

(February 25, 2013)

When work requiring disturbance within planting area(s) *** $$1$$ *** is complete, the Contractor shall perform planting work within the next available planting window.

8-02.3(9).GR8

***Seeding, Fertilizing, and Mulching***

8-02.3(9)B.GR8

**Seeding and Fertilizing**

8-02.3(9)B.INST1.GR8

Section 8-02.3(9)B is supplemented with the following:

8-02.3(9)B.OPT1.FR8

(September 3, 2019)

Seed of the following mix, rate, and analysis shall be applied at the rates shown below on all areas requiring ***$$1$$*** seeding within the project:

| Seed by Common Name, (Botanical Name), and "Source Identification" | Pounds Pure Live Seed (PLS) Per Acre |
|---|---|
| *** $$2$$ | $$ |
| $$ | $$ |
| $$ | $$ |
| Total | $$ *** |

Source Identified seed shall be generation four or less. Non-Source Identified seed shall meet or exceed Washington State Department of Agriculture Certified Seed Standards and be from within the appropriate genetic zones of the *** $$3$$ *** Ecoregion(s) as defined by the US Environmental Protection Agency (EPA).

The seed certification class shall be Certified (blue tag) in accordance with WAC 16-302 and meet the following requirements:

| | |
|---|---|
| Prohibited Weed | 0% max. |
| Noxious Weed | 0% max. |
| Other Weed | 0.20% max. |
| Other Crop | 0.40% max. |

The Contractor shall document all Source Identified seed by providing the Association of Official Seed Certifying Agents (AOSCA) yellow seed label for each species in the mix. Site Identification Logs can be supplied for collections where the AOSCA yellow label is not available.

8-02.3(9)B.OPT2.GR8

(September 3, 2019)

Grass seed shall be a commercially prepared mix, made up of low growing species which will grow without irrigation at the project location, and accepted by the Engineer. The application rate shall be two pounds per 1000 square feet.

8-02.3(9)B.OPT3.FR8

(September 3, 2019)

Seed of the following mix, rate, and analysis shall be applied at the rates shown below on all areas requiring *** $$1$$ *** seeding within the project:

| Seed by Common Name, (Botanical Name), and "Source Identification" | Pure Live Seed Pounds (PLS) Per Acre |
|---|---|
| *** $$2$$ | $$ |
| $$ | $$ |
| $$ | $$ |
| Total | $$ *** |

Seed shall meet or exceed Washington State Department of Agriculture Certified Seed Standards and be from within the *** $$3$$ *** Ecoregion(s) as defined by the US Environmental Protection Agency (EPA).

The seed certification class shall be Certified (blue tag) in accordance with WAC 16-302 and meet the following requirements:

| | |
|---|---|
| Prohibited Weed | 0% max. |
| Noxious Weed | 0% max. |
| Other Weed | 0.20% max. |
| Other Crop | 0.40% max. |

8-02.3(11).GR8

***Mulch***

8-02.3(11).INST1.GR8

Section 8-02.3(11) is supplemented with the following:

8-02.3(11).OPT1.FR8

(April 2, 2012)

Bark mulch or wood chip mulch shall be placed to a uniform non-compacted depth of *** $$1$$ *** over all planting areas.

Bark or wood chip mulch shall not be placed in areas of standing or flowing water.

8-02.3(11)A.GR8

**Mulch for Seeding Areas**

8-02.3(11)A.INST1.GR8

Section 8-02.3(11)A is supplemented with the following:

8-02.3(11)A.OPT1.FR8

(September 3, 2019)

*** $$1$$ *** shall be applied at a rate of *** $$2$$ *** pounds per acre with no more than *** $$3$$ *** pounds per acre applied in a single lift.

8-02.4.GR8

## Measurement

8-02.4.INST1.GR8

Section 8-02.4 is supplemented with the following:

8-02.4.OPT2.GR8

(April 1, 2019)

Biotic Soil Amendment will be measured by the acre along the grade and slope of the area covered immediately after application.

8-02.5.GR8

## Payment

8-02.5.INST1.GR8

Section 8-02.5 is supplemented with the following:

8-02.5.OPT2.GR8

(September 7, 2021)

“Removal of Buried Previously Fabricated Debris” will be paid for by force account as specified in Section 1-09.6. The payment for removal of buried man-made debris shall be full compensation for all costs for the specified Work to include removing, loading, hauling, and all associated disposal costs.

For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount in the proposal to become a part of the Contractor’s total Bid.

8-02.5.OPT4.FR8

(April 1, 2019)

“Biotic Soil Amendment”, per acre.

The unit Contract price per acre for “Biotic Soil Amendment” shall be full pay to perform the Work as specified. When seed is mixed into, and applied with the biotic soil amendment, payment for seed will be made under the Bid item *** $$1$$ ***.

8-03.GR8

## Irrigation Systems

8-03.3.GR8

### Construction Requirements

8-03.3(6).GR8

#### *Electrical Wire Installation*

8-03.3(6)A.GR8

##### Trenches

8-03.3(6)A2.GR8

##### Within Critical Root Zone

8-03.3(6)A2.INST1.GR8

Section 8-03.3(6)A2 is supplemented with the following:

8-03.3(6)A2.OPT1.FR8

(October 3, 2022)

Mechanical trenching within the Critical Root Zone of existing trees is allowed at the following locations:

*** $$1$$ ***

The Contractor shall exercise care when excavating pipe trenches near existing trees to minimize damage to tree roots.

Utilize International Society of Arboriculture (ISA) Best Practices for all trenching activities to minimize soil compaction and damage to root systems. All shattered root ends shall be clean-cut using appropriate sharp pruning tools. Where roots are 1½ inches or greater in diameter are encountered, the trench shall be hand excavated and tunneled under the roots. Exposed roots 1½ or greater in diameter shall be wrapped with heavy, moist material, such as burlap or canvas, for protection and to prevent excessive drying. The wrapping material must be kept moist until the trench is backfilled. All wrapping material and fastenings used to cover the roots shall be removed before backfilling.

Page Intentionally Left Blank

8-10.GR8

## Guide Posts

8-10.1.GR8

### Description

8-10.1.INST1.GR8

Section 8-10.1 is supplemented with the following:

8-10.1.OPT1.GR8

(April 1, 2002)

This Work shall consist of furnishing and installing barrier delineators on concrete barrier when barrier runs concurrent with guide post locations.

8-10.2.GR8

### Materials

8-10.2.INST1.GR8

Section 8-10.2 is supplemented with the following:

8-10.2.OPT1.GR8

(~~August 6, 2018~~October 3, 2022)

Barrier delineators shall consist of a flat plastic reflector lens or reflective sheeting attached to a housing or bracket to facilitate the mounting of the delineator on concrete traffic barrier. The reflective surface shall be rectangular or trapezoidal shape with a minimum area of 9 square inches for reflectors and 12 square inches for reflective sheeting. The housing or bracket can be flexible or rigid, molded from a durable plastic or other durable material approved by the Engineer. Barrier delineators shall be one sided for single direction or two sided for bi-directional.

Reflectors shall be acrylic or polycarbonate. ~~and shall conform to AASHTO M 290.~~ Reflectors shall equal or exceed the following minimum values of specific intensity:

| Observation Angle (Degrees) | Entrance Angle (Degrees) | Specific Intensity cd/ft-c | |
|---|---|---|---|
| | | White | Yellow |
| 0.1 | 0 | 126 | 75 |
| 0.1 | 20 | 50 | 30 |

Reflective sheeting for barrier delineators shall be in accordance with Section 9-28.12. ~~type III, IV, V or XI and selected from approved materials listed in the Qualified Products List, or shall be accepted through the Request for Materials (RAM) process in accordance with Section 1-06.1(2).~~

8-10.3.GR8

### Construction Requirements

8-10.3.INST1.GR8

Section 8-10.3 is supplemented with the following:

8-10.3.OPT1.GR8

(April 1, 2002)

Barrier delineators shall be placed on the traffic face of the barrier six inches down from the top. Spacing shall be as shown in the plans. Delineator color shall be white on the right of traffic and yellow on the left of traffic. The surface of the barrier where the delineator is applied shall be free of dirt, curing compound, moisture, paint, or any other material that would adversely affect the bond of the adhesive. Install delineators with an adhesive recommended by the manufacturer.

8-10.3.OPT2.GR8

(April 1, 2002)

Barrier delineators shall be placed on the top of the barrier. Spacing shall be as shown in the plans. Delineator color shall be white on the right of traffic and yellow on the left of traffic. The surface of the barrier where the delineator is applied shall be free of dirt, curing compound, moisture, paint, or any other material that would adversely affect the bond of the adhesive. Install delineators with an adhesive recommended by the manufacturer.

8-10.4.GR8

## Measurement

8-10.4.INST1.GR8

Section 8-10.4 is supplemented with the following:

8-10.4.OPT1.GR8

(April 1, 2002)

Barrier delineators will be measured by the unit for each delineator furnished and installed.

8-10.5.GR8

## Payment

8-10.5.INST1.GR8

Section 8-10.5 is supplemented with the following:

8-10.5.OPT1.GR8

(April 1, 2002)

"Barrier Delineator", per each

8-11.GR8

## Guardrail

8-11.1.GR8

### Description

8-11.1.INST1.GR8

Section 8-11.1 is supplemented with the following:

8-11.1.OPT1.GR8

***(February 3, 2020)***

***High-Tension Cable Barrier System (4 Cable)***

This work consists of supplying and constructing high-tension cable barrier systems (cable, posts, compensating devices, fittings, and hardware), terminals, and transitions in conformity with the lines and grades as staked.

8-11.1.OPT2.GR8

(April 1, 2019)

This Work shall consist of applying an aesthetic treatment, either a powder coating or reactive coloring agent, to galvanized beam guardrail, galvanized guardrail posts, terminal ends and associated hardware that provides a “non-reflective” and “earth” tone colored finish (dark brown) that visually blends with the natural environment.

8-11.2.GR8

### Materials

8-11.2.INST1.GR8

Section 8-11.2 is supplemented with the following:

8-11.2.OPT2.GR8

***(~~September 3, 2019~~October 3, 2022)***

***High-Tension Cable Barrier System (4 Cable)***

The Contractor shall furnish a high-tension 4-cable barrier system, terminals, and transitions that meet the requirements of NCHRP Report 350 Test Level 3 or 4 that are designed for a minimum cable tension of 3,000-pounds at an ambient air temperature of 70 degrees F. All fittings and connecting hardware shall have a minimum breaking strength of 36,000-pounds.~~ The maximum allowable barrier system post spacing is 17.0-feet. Barrier system post spacing provided by the Contractor shall limit lateral deflection to the value shown in the Contract documents.~~

The maximum allowable lateral deflection distance for the high-tension cable barrier system(s) on the project is:

*** $$1$$ *** feet

The Contractor shall submit a Type 2 Working Drawing consisting of fabrication drawings and installation procedures. The Working Drawings shall specify all components used in the entire barrier system and document the barrier system deflection distances.~~, as well as the post spacing required to achieve the deflection value shown in the Contract documents.~~

The barrier system will be accepted based on a Manufacturer's Certificate of Compliance provided by the Contractor. The Manufacturer's Certificate of Compliance shall consist of a Contract specific letter from the manufacturer stating the system is NCHRP 350 Test Level 3 or 4 compliant, a copy of the original FHWA eligibility letter(s) for the barrier system, documentation from the manufacturer describing any and all modifications that have been made to the system since the letter(s) were issued, and a statement from the manufacturer certifying that those modifications do not affect the performance of the original system.

8-11.2.OPT4.GR8

***(April 1, 2019)***

***Powder Coating***

Powder coating materials for coating galvanized surfaces shall be in accordance with Section 9-08.2. The color shall match SAE AMS Standard 595, color number 30045.

***Reactive Coloring Agent***

The reactive coloring agent shall consist of a stable, "non-reflective" "earth" tone (dark brown) colored finish on the surface of the galvanized materials. The reactive coloring agent shall only utilize oxidizers, metals, metal salts, and/or other trace elements applied directly to the galvanized surfaces to obtain the desired color. The chemical components of the reactive coloring agent shall have no adverse reactions or effects on soils, plants, or animals and shall not contain corrosive by-products once the product has been applied. Only nitrate fertilizer products are permitted to be present as soluble residues.

The reactive coloring agent shall be provided by either the following manufacturer or an accepted equal:

NATINA manufactured by Natina Products, LLC
1577 First Street
Coachella, CA 92236
Telephone: (877) 762-8462
www.natinaproducts.com

8-11.2(9-16.3).GR8

***Beam Guardrail***

8-11.2(9-16.3(2)).GR8

**Posts and Blocks**

8-11.2(9-16.3(2)).INST1.GR8

Section 9-16.3(2) is supplemented with the following:

8-11.2(9-16.3(2)).OPT1.GB8

(April 6, 2015)

Shear plates and backing plates shall conform to ASTM A 36, and shall be galvanized after fabrication in accordance with AASHTO M 111.

8-11.2(9-16.3(2)).OPT2.GB8

(April 6, 2015)

Grout for post bases shall conform to Section 9-20.3(2).

8-11.2(9-16.3(2)).OPT3.GB8

(April 6, 2015)

Steel angles connecting the timber blockout to the existing steel truss members shall conform to either ASTM A 36 or ASTM A 992, and shall be galvanized in accordance with AASHTO M 111.

8-11.2(9-16.3(2)).OPT4.GB8

(April 6, 2015)

HSS steel tubing shall conform to ASTM A 500 Grade B, and shall be galvanized after fabrication in accordance with AASHTO M 111.

Steel bars, plates, and shapes shall conform to ASTM A 36, and shall be galvanized after fabrication in accordance with AASHTO M 111, except that structural shapes may conform to ASTM A 992.

Galvanized sheet metal shall conform to ASTM A 653, Coating Designation G 235.

Paving bulkheads, timber blocking, and custom cut shims shall be Douglas Fir-Larch No. 2 or better, and shall be treated as specified in this Section.

Rubberized asphalt shall conform to ASTM D 6690 (Type 1 for bridge locations in Western Washington, and Type 2 for bridge locations in Eastern Washington).

8-11.2(9-16.3(4)).GB8

**Hardware**

Section 9-16.3(4) is supplemented with the following:

8-11.2(9-16.3(4)).OPT1.GB8

(April 6, 2015)

Resin bonded anchors shall conform to Sections 6-02.2 and 6-02.3(18) as supplemented in these Special Provisions.

8-11.2(9-16.3(4)).OPT2.GB8

(April 6, 2015)

Lag screws shall conform to Section 9-06.22.

8-11.3.GR8

## Construction Requirements

8-11.3.INST1.GR8

Section 8-11.3 is supplemented with the following:

8-11.3.OPT1.GR8

***(~~August 6, 2018~~October 3, 2022)***

***~~Box Culvert Guardrail Steel Post~~Installing Steel Posts on Existing Box Culverts***

**Field Measurements**

The Contractor shall obtain field measurements both vertically and horizontally at each location steel posts are to be installed on the existing box culvert. The Contractor shall calculate the steel post lengths for fabrication using the field measurement information obtained.

**Submittals**
The Contractor shall remove surfacing materials from the top of the box culvert and shall determine the length of the posts. Prior to post and rail fabrication the Contractor shall submit Type 2 Working Drawings in accordance with Section 1-05.3. The Working Drawings shall include plan and elevation views of each post location on the culvert. The plan view drawing shall show the station and offset of each post on the culvert. The elevation view drawing shall show the top of culvert elevation at each post location, the top of surfacing elevation at each post location, the top of rail elevation, the top of post elevation, and the length of post at each post location.

**Excavation**
The Contractor shall excavate an area extensive enough to allow the top of the culvert to be cleaned of all dirt, oil, and debris, installation of the baseplate, backfilled, and properly compacted around the posts.

**Post Installation**
See the Contract plans for the method of steel post attachment to the box culvert (embedded or bolt through). Steel posts shall be installed in accordance with Standard Plan C-20.41 or Standard Plan C-20.43.

The Contractor shall exercise care in locating and drilling the holes to avoid damage to existing steel reinforcing bars and concrete. To avoid damaging the existing steel reinforcing bars, the location of the holes may be shifted slightly with the acceptance of the Engineer. All damage caused by the Contractor's operations shall be repaired by the Contractor in accordance with Section 1-07.13.

**Backfilling**
After the posts are installed on the box culverts, the excavated areas shall be backfilled and compacted in 6-inch maximum lifts. Compaction shall be accomplished with three passes with a mechanical tamper. When culvert posts are installed through HMA, repair the roadway with materials matching the existing surfacing depths. Use Commercial HMA in accordance with Section 5-04.

**Additional Box Culvert Guardrail Steel Post Assemblies**
For each culvert with embedded or bolt through guardrail steel posts, furnish and deliver one complete set of Box Culvert Guardrail Steel Post Assemblies. Box Culvert Guardrail Steel Post Assemblies shall be delivered to the Contracting Agency locations as listed below:

| Location (SR & MP) | Location/Contact Phone Number |
|---|---|
| *** $$1$$ *** | *** $$2$$ *** |
| *** $$3$$ *** | *** $$4$$ *** |

A complete set of assemblies will include the following:

When using Embedded Anchor Box Culvert Guardrail Steel Posts (Standard Plan C-20.41):

1. Steel Post and Base Plate Assembly – One replacement post and base plate for each post installed on culvert

2. Embedded Anchor Bolt Assemblies including four threaded rods, bolts, and resin adhesive for each post installed on culvert

When using Bolt-Thru Anchor Box Culvert Guardrail Steel Posts (Standard Plan C-20.43):

1. Steel Post and Base Plate Assembly – One replacement post and base plate for each post installed on culvert

2. Bottom Plate – One plate for each post installed on culvert

3. Hex Head Bolts, Nuts, & Washers – 4 bolts, 4 nuts, and 8 washers for each post installed on culvert

Provide 48-hours' notice to both the Engineer and the contact(s) listed above prior to delivery. Damaged items will not be accepted and shall be replaced at no cost to the Contracting Agency.

~~The Contractor shall remove surfacing materials from the top of the box culvert and shall determine the length of the posts. The Engineer will verify the dimensions before the posts may be fabricated.~~

~~All surfacing material must be removed from the box culverts in an area extensive enough to allow installation of the baseplate. Before the grout that conforms to Section 9-20.3(2) is placed, the concrete surface shall be thoroughly cleaned of all dirt, oil and debris.~~

~~The posts shall be installed to the box culvert in accordance with Standard Plan C-20.41.~~

~~After the posts are installed on the box culverts, the excavated areas shall be backfilled and compacted in 6-inch lifts. Compaction shall be accomplished with three passes with a mechanical tamper.~~

8-11.3.OPT2.FR8

***(~~February 3, 2020~~October 3, 2022)***

***High-Tension Cable Barrier System (4 Cable)***

A manufacturer's representative, or an installer who has been trained and certified by the unit's manufacturer within the last 5 years and for the specific system(s) being installed, shall supervise assembly and installation at all times. Provide a copy of the installer's certification to the Engineer prior to installation.

Assemble and install high-tension cable barrier according to the manufacturer's recommendations. This shall include the connection to guardrail and the transition and terminal sections identified in the Plans. Submit any Contractor proposed modification in barrier location, type, terminal or transition to the Engineer for approval a minimum of 10-days prior to any work in the affected section.

Unless otherwise stated in the Plans, all posts shall be a socket type assembly; with the actual cable barrier post being inserted into a sleeve encased in a cast in place or precast reinforced concrete post foundation and will be installed as recommended by the manufacturer. On every 6th-post, install yellow retro-reflective markers in accordance with the manufacturer's system.~~sheeting that conforms to AASHTO M268 Type 4 adhesive sheeting on both sides of the post.~~

***Terminal Placement***

Unless otherwise stated in the Plans, the foundations for the high tension cable barrier terminals shall be cast in place or precast concrete and shall be installed in accordance with manufacturer's recommendations. If a precast concrete foundation is installed, the bottom of the unit shall have a full and even bearing on the surface under it. If there is a need for backfilling an excavation, use Controlled Density Fill (CDF) in accordance with Section 2-09.3(1) E. Delineate the anchor posts for approach traffic with Type 3 lateral clearance markers (object markers) in accordance with Section 9-28.12.~~that are made with type III or type IV sheeting.~~

***Additional High-Tension Cable Barrier Components***

Furnish and deliver one complete set of High-Tension Cable Barrier to each of the Contracting Agency sites listed below:

*** $$1$$ ***

Include the following components with each complete set:

One-hundred line posts and all associated hardware including but not limited to spacers, connectors, straps, caps and covers. If the system has a special post to accommodate turnbuckles, then 5 of the line posts shall be these special posts.

Twenty sockets except when concrete sockets are used.

One 50 foot long section of cable used for the contract.

Three cable splices and 3 turnbuckle assemblies for a 3-cable system or 4 cable splices and 4 turnbuckle assemblies for a 4-cable system (1-assembly consists of a left and right hand threaded end with a turnbuckle).

One tension measuring device as recommended by the manufacturer.

One anchor post designed for use with the foundations installed.

Ten line terminal posts and all associated hardware.

Provide 48-hours notice to both the Engineer and the maintenance contact listed above prior to delivery. Damaged items will not be accepted and shall be replaced at no cost to the Contracting Agency.

8-11.3.OPT4.GR8

(April 1, 2019)

Aesthetic treatments to the galvanized W-beam guardrail, galvanized guardrail posts, galvanized guardrail terminals, and associated galvanized hardware shall be performed using either a powder coating or reactive coloring agent. The Contractor shall apply powder coating or reactive coloring agent to all galvanized steel rail, posts, other galvanized steel parts, and impact head components of the beam guardrail as specified in the Plans. Confirm that the manufacturer of proprietary guardrail terminals allows the use of powder coatings or reactive coloring agents prior to applying them.

Only the top 30 inches on any guardrail post length to be exposed above ground shall receive aesthetic treatment.

The color of the finish coat shall be a dark brown. The Contractor shall furnish a one-foot minimum length test section of galvanized W-beam guardrail treated with the proposed aesthetic treatment product to the Engineer for acceptance. The test section shall be prepared in accordance with the manufacturer's instructions.

The Engineer will provide acceptance in writing accepting the color of the test section prior to acceptance of any permanently incorporated material into the project.

***Powder Coating***

Powder coating of galvanized surfaces shall be in accordance with Section 6-07.3(11)B.

***Reactive Coloring Agent***

Application of the reactive coloring agent to galvanized surfaces shall be in accordance with the following:

The reactive coloring agent shall be applied using the same methods used for the accepted test section. The treated material shall develop full coloration within two weeks of application and achieve a color consistent with the color of the authorized test section.

The Contractor shall apply the reactive coloring agent prior to delivering the steel components to the project site. The reactive coloring agent manufacturer or the manufacturer's authorized application contractor shall apply the reactive coloring agent for both the test section and production applications. Application of the reactive coloring agent shall fully coat the galvanized steel in accordance with the manufacturer's written instructions and achieve the accepted surface color. Once the reactive coloring agent is applied, the Contractor shall protect the steel pieces from abrasion that would remove the brown color.

After the various guardrail components have been installed, the Contractor shall apply the reactive coloring agent to any steel products that did not receive adequate coloring, or where the color was removed during the shipment or the construction process. This remedial action shall coat the affected area. Any reactive coloring agent applied in the field shall be cured according to manufacturer's specifications, and shall be applied while protecting soil, plants, and surrounding natural surfaces.

8-11.3.OPT5.FR8

***(October 3, 2022)***

***Installing Steel Posts on New Box Culverts***

**Post Installation**

See the Contract plans or culvert Working Drawings for the method of steel post attachment to the box culvert (embedded or bolt through). Steel posts shall be installed in accordance with Standard Plan C-20.41 or Standard Plan C-20.43.

The Contractor shall exercise care in locating and drilling the holes to avoid damage to existing steel reinforcing bars and concrete. To avoid damaging the existing steel reinforcing bars, the location of the holes may be shifted slightly with the acceptance of the Engineer. All damage caused by the Contractor's operations shall be repaired by the Contractor in accordance with Section 1-07.13.

**Additional Box Culvert Guardrail Steel Post Assemblies**

For each culvert with embedded or bolt through guardrail steel posts, furnish and deliver one complete set of Box Culvert Guardrail Steel Post Assemblies. Box Culvert Guardrail Steel Post Assemblies shall be delivered to the Contracting Agency locations as listed below:

| Box Culvert Designation & Location (SR & MP) | Contracting Agency Delivery Location/Contact Phone Number |
|---|---|
| *** $$1$$ *** | *** $$2$$ *** |
| *** $$3$$ *** | *** $$4$$ *** |

A complete set of assemblies will include the following:

When using Embedded Anchor Box Culvert Guardrail Steel Posts (Standard Plan C-20.41):

1. Steel Post and Base Plate Assembly – One replacement post and base plate for each post installed on culvert

2. Embedded Anchor Bolt Assemblies including Four threaded rods, bolts, and resin adhesive for each post installed on culvert

When using Bolt-Thru Anchor Box Culvert Guardrail Steel Posts (Standard Plan C-20.43):

1. Steel Post and Base Plate Assembly – One replacement post and base plate for each post installed on culvert

2. Bottom Plate – One plate for each post installed on culvert

3. Hex Head Bolts, Nuts, & Washers – 4 bolts, 4 nuts, and 8 washers for each post installed on culvert

Provide 48-hours' notice to both the Engineer and the contact(s) listed above prior to delivery. Damaged items will not be accepted and shall be replaced at no cost to the Contracting Agency.

8-11.3(1).GR8

***Beam Guardrail***

8-11.3(1).INST1.GR8

Section 8-11.3(1) is supplemented with the following:

8-11.3(1).OPT1.GR8

(April 5, 2010)

This project may contain a mixture of steel and wood posts. The bidder is advised that post selection will be as detailed in the plans and these specifications.

8-11.3(1)A.GR8

**Erection of Posts**

8-11.3(1)A.INST1.GR8

Section 8-11.3(1)A is supplemented with the following:

8-11.3(1)A.OPT1.GB8

**(April 6, 2015)**

**Timber Blockouts for Beam Guardrail Type Thrie Beam**

The Contractor shall cut and trim the timber blocks as necessary to conform to the shape of the existing concrete baluster rail, and to align the beam guardrail element, as shown in the Plans.

When the specified timber blockout spacing places a block at an existing concrete end post or intermediate post, the Contractor shall core drill holes into the existing concrete as shown in the Plans and as follows. The Contractor shall not shatter or damage the concrete adjacent to the holes. Location of blockout assemblies may be shifted slightly within the tolerance specified in the Plans in order to reduce the risk of damage to existing steel reinforcing bars. However, once a blockout assembly position is established, damage to existing steel reinforcing bars caused by subsequent core drilling operations at that assembly location is acceptable.

8-11.3(1)A.OPT2.GB8

**(January 4, 2016)**

**Steel Posts for Beam Guardrail Type Thrie Beam**

The Contractor shall field measure the dimension of the existing curb above the existing wearing surface at each curb line for each bridge receiving beam guardrail Type Thrie Beam. The field measured dimensions, and all adjustments to the field measurements required by planing and paving operations included in this project, shall be included in the steel post assembly shop drawings submitted in accordance with Section 8-11.3(1)G.

8-11.3(1)A.OPT3.GB8

**(September 8, 2020)**

**Beam Guardrail Type WP Thrie Beam**

The Contractor shall field measure the depth of the existing ballast and wearing course at both wheel guard lines, and shall include the dimensions at both wheel guard lines in the steel post mounting bracket shop drawings submitted in accordance with Section 8-11.3(1)G.

The Contractor shall remove the existing ballast and wearing course to the top of existing timber deck in the vicinity of the steel post anchorage locations, and shall dispose of the removed surfacing materials in accordance with Section 2-02.3.

As shown in the Plans, the Contractor shall place a timber block beneath the timber deck at each steel post anchorage location and against the existing exterior timber stringer.

The Contractor shall install the steel post anchorage assembly, including the deck plate, distribution plate, bearing plate, base plate, backing plate, and HSS steel tube post, as shown in the Plans. Timber deck shims shall be cut and trimmed as necessary to align the top of the vertical webs of the steel post anchorage 1/2 inch below the top of the surrounding wearing course surfacing,

in accordance with the existing timber deck transverse slope and existing ballast and wearing course depth specified in the shop drawings.

The Contractor may field drill holes through the steel components in accordance with Section 6-03.3(27) except as otherwise noted. The Contractor shall identify all holes to be field drilled in the steel fabrication shop drawings. The Contractor may field drill the holes using hand held drills provided that the Contractor submits the method and equipment used to the Engineer for approval, and that the Contractor receives the Engineer's acceptance of the submittal prior to beginning hand drilling. The Contractor shall repair all galvanized steel surfaces damaged by field drilling operations by painting the damaged areas with one coat of paint conforming to Section 9-08.1(2)B.

The Contractor shall replace all existing ballast and wearing course removed in the vicinity of the steel post anchorage locations to the top of the surrounding surfacing. The Contractor shall fill the void with an HMA surfacing material accepted by the Engineer.

8-11.3(1)B.GR8

**Erection of Rail**

8-11.3(1)B.INST1.GR8

Section 8-11.3(1)B is supplemented with the following:

8-11.3(1)B.OPT6.GB8

**(April 6, 2015)**

**Field Measuring to Existing Type 3 Anchors**

The Contractor shall field measure the dimension from the centerline of the existing Type 3 anchors specified for reuse to the end of the existing concrete curb and railbase or concrete baluster railing end blocks of the adjacent bridge. The Contractor shall submit these dimensions to the Engineer along with a Type 2 Working Drawing showing the arrangement of the thrie beam guardrail elements and approach guardrail elements relative to the existing Type 3 anchors and concrete curb and railbase or concrete baluster railing end blocks for each bridge as applicable.

8-11.3(1)B.OPT7.GB8

**(April 6, 2015)**

**Attaching Beam Guardrail Type Thrie Beam to Timber Blockouts**

The Contractor shall fasten the thrie beam element to the timber blockout assemblies such that the steel shear plates fit snug against the surface forming the opening through the concrete baluster rail.

The Contractor may field drill the holes through the thrie beam elements in accordance with Section 6-03.3(27), except as otherwise noted. The Contractor may field drill the holes using hand held drills.

The Contractor shall repair all galvanized steel surfaces damaged by field drilling operations by painting the damaged areas with one coat of paint conforming to Section 9-08.1(2)B.

8-11.3(1)B.OPT8.GB8

**(September 13, 2021)**

**Thrie Beam Expansion Joint Element**

Where beam guardrail Type Thrie Beam crosses bridge interior expansion joints, the Contractor shall place a thrie beam expansion section element conforming to Standard Plan C-25.22 or C-25.26.

8-11.3(1)B.OPT9.GB8

**(April 6, 2015)**

**Beam Guardrail Type WP Thrie Beam**

The Contractor may field drill the holes through the thrie beam elements in accordance with Section 6-03.3(27), except as otherwise noted. The Contractor may field drill the holes using hand held drills.

The Contractor shall repair all galvanized steel surfaces damaged by field drilling operations by painting the damaged areas with one coat of paint conforming to Section 9-08.1(2)B.

After completing the beam guardrail retrofit and replacing the surfacing at the steel post anchorage locations on the bridge up to the level of the surrounding surfacing, the Contractor shall install the sheet metal water barrier, when the water barrier is shown in the Plans. A bonding layer of rubberized asphalt shall be applied to the surfacing contact area immediately prior to installing the water barrier assembly. The direction of overlap of adjacent water barrier segments shall be as directed by the Engineer.

8-11.3(1)D.GR8

**Removing Guardrail and Guardrail Anchor**

8-11.3(1)D.INST1.GR8

Section 8-11.3(1)D is supplemented with the following:

8-11.3(1)D.OPT1.GB8

**(September 8, 2020)**

**Beam Guardrail Type WP Thrie Beam**

The Contractor shall remove the existing bridge guardrail posts and railing, the existing timber wheel guards, all associated fasteners, and the existing ballast and wearing course in the vicinity of the steel post anchorage assemblies of the bridges being retrofitted with beam guardrail Type WP Thrie Beam as shown in the Plans

The items specified above shall be removed as follows:

1. The Contractor shall remove the existing timber wheel guards before beginning the beam guardrail retrofit work.

2. The Contractor shall not remove any section of the existing bridge railing system on the bridge until completing the beam guardrail retrofit within that section of the bridge, except as otherwise specified. The Contractor may remove portions of the existing bridge railing system on the bridge which conflict with the anchorages, posts, and rail elements of the retrofit, provided:

a. The Contractor installs as much of the beam guardrail retrofit as possible in the section that does not conflict with the existing bridge railing system elements.

b. After removing the conflicting element of the existing bridge railing system, the Contractor shall immediately complete the beam guardrail retrofit in the section.

c. The Contractor receives the Engineer's acceptance for removing the conflicting element of the existing bridge railing system before proceeding.

8-11.3(1)H.GR8

**Guardrail Construction Exposed to Traffic**

8-11.3(1)H.INST1.GR8

Section 8-11.3(1)H is supplemented with the following:

8-11.3(1)H.OPT1.GB8

**(April 6, 2015)**

**Beam Guardrail Type WP Thrie Beam**

Whenever the Contractor is not actively working on the beam guardrail retrofit, the Contractor shall ensure that all guardrail ends are securely fastened to the rail posts and existing bridge railing system, including temporary terminal end sections as required. The Contractor shall conduct retrofit operations such that no gaps occur between the existing bridge railing system and the beam guardrail retrofit at any time.

The Contractor shall submit Type 2 Working Drawings detailing the temporary connections between the existing guardrail system and the thrie beam guardrail system, and the temporary terminal end sections.

8-11.4.GR8

## Measurement

8-11.4.INST1.GR8

Section 8-11.4 is supplemented with the following:

8-11.4.OPT1.GR8

(~~March 13, 1995~~October 3, 2022)

Box culvert guardrail steel posts type 31 will be measured per each, for each post installed.

8-11.4.OPT2.GR8

(February 3, 2020)

Measurement of high-tension cable barrier (4 Cable) will be by the linear foot along the line of the completed barrier from end to end including transition sections, terminals, cable barrier to guardrail terminals, foundations, sockets, concrete, compensating devices, tensioning device, slip base post, sleeves, caps, and all hardware.

8-11.4.OPT4.GR8

(April 2, 2018)

Measurement of Aesthetic Treatment for beam guardrail will be by the linear foot measured along the line of the completed guardrail, including expansion sections and the end section for F connections.

Measurement for Aesthetic Treatment for beam guardrail transition section will be per each for the type of transition section installed.

Measurement for Aesthetic Treatment for beam guardrail anchor type specified will be per each for the completed anchor, including the attachment of the anchor to the guardrail.

Measurement of Aesthetic Treatment beam guardrail ____ terminal will be per each for the completed terminal.

Measurement of Aesthetic Treatment beam guardrail Type 31 buried terminal Type 2 will be per linear foot for the completed terminal.

8-11.5.GR8

## Payment

8-11.5.INST2.GR8

Section 8-11.5 is supplemented with the following:

8-11.5.OPT1.GR8

(April 2, 2018)

"Aes. Tr. Beam Guardrail Type ___", per linear foot

"Aes Tr. Beam Guardrail Type 1- ____ Ft. Long Post", per linear foot.

"Aes Tr. Beam Guardrail Type 31- ____ Ft. Long Post", per linear foot.

The unit Contract price per linear foot for "Aes. Tr. Beam Guardrail Type____", "Aes Tr. Beam Guardrail Type 1- ____ Ft. Long Post", and "Aes Tr. Beam Guardrail Type 31- ____ Ft. Long Post", shall be full payment for all costs to perform the Work as specified.

"Aes. Tr. Beam Guardrail Transition Section Type ____", per each

The unit Contract price per each for "Aes. Tr. Beam Guardrail Transition Section Type ____" shall be full payment for all costs to perform the Work as described in Section 8-11.3.

"Aes. Tr. Beam Guardrail Anchor Type ____", per each.

"Aes. Tr. Beam Guardrail ____ Terminal", per each.

The unit Contract price per each for "Aes. Tr. Beam Guardrail Anchor Type ____" and "Aes. Tr. Beam Guardrail ___ Terminal" shall be full payment for all costs to perform the Work as specified.

"Aes. Tr. Beam Guardrail Type 31 Buried Term. Type 2", per linear foot.

The unit Contract price per linear foot for “Aes. Tr. Beam Guardrail Type 31 Buried Term. Type 2” shall be full payment for all costs to perform the Work as specified.

8-11.5.OPT2.GR8

(January 13, 2021)

All Costs in construction of guardrail leave-outs including all required materials as specified will be included in the unit Contract prices of the various guardrail bid items.

8-11.5.OPT6.GR8

(~~August 6, 2018~~October 3, 2022)

“Box Culvert Guardrail Steel Post Type 31”, per each.

The unit contract price per each for ~~"~~“Box Culvert Guardrail Steel Post Type 31~~"~~” shall be full pay for completing the installation of the posts, including obtaining field measurements, excavation, furnishing, placing and compacting the backfill material, and when required, repairing surfacing materials. Beam guardrail will be paid for in accordance with Section 8-11.5.

“Additional Box Culvert Guardrail Steel Post Assemblies”, lump sum.

The lump sum contract price for “Additional Box Culvert Guardrail Steel Post Assemblies” shall be full pay to complete the work as specified.

8-11.5.OPT7.GR8

(February 3, 2020)

“High-Tension Cable Barrier System (4 Cable)”, per linear foot.

“Additional High-Tension Cable Barrier Components”, lump sum.

The unit contract price per linear foot for “High-Tension Cable Barrier (4 Cable)” shall be full pay to complete the work as specified.

8-11.5.OPT8.GR8

(February 3, 2020)

The lump sum contract price for “Additional High-Tension Cable Barrier Components” shall be full pay to complete the work as specified for a 4 Cable system.

8-13.GR8

## Monument Cases

8-13.1.GR8

### Description

~~8-13.1.INST1.GR8~~
~~Section 8-13.1 is deleted and replaced by the following:~~

~~8-13.1.OPT1.GR8~~
~~(March 13, 1995)~~
~~This work shall consist of furnishing and placing monument cases, covers, and pipes in accordance with the Standard Plans and these Specifications, in conformity with the lines and locations shown in the Plans or as staked by the Engineer.~~

8-13.2.GR8

### Materials

8-13.2.INST1.GR8
Section 8-13.2 is supplemented with the following:

8-13.2.OPT1.GR8
(March 13, 1995)
The pipe shall be Schedule 40 galvanized pipe.

8-13.3.GR8

### Construction Requirements

8-13.3(1).GR8

***Definitions***

8-13.3(1).INST1.GR8
The last paragraph of Section 8-13.3(1) is revised to read:

8-13.3(1).OPT1.GR8
(March 13, 1995)
The Engineer will be responsible for placing the concrete core and tack or wire inside the pipe.

8-13.3(2).GR8

***Adjust Monument Case and Cover***

8-13.3(2)B.GR8

**Reinstalling Monument Case and Cover**

8-13.3(2)B.INST1.GR8
The first sentence of Section 8-13.3(2)B is revised to read:

8-13.3(2)B.OPT1.GR8
(October 3, 2022)

The adjusted or reinstalled monument case and cover shall be reset to ¼-inch below the finished pavement as indicated in the plans and in accordance with the following additional requirements:

8-13.4.GR8
**Measurement**

8-13.4.INST1.GR8
Section 8-13.4 is deleted and replaced by the following:

8-13.4.OPT1.GR8
(March 13, 1995)
Measurement of monument case, cover, and pipe will be by the unit for each monument case, cover, and pipe furnished and set.

8-13.5.GR8
**Payment**

8-13.5.INST1.GR8
Section 8-13.5 is supplemented with the following:

8-13.5.OPT1.GR8
(April 28, 1997)
"Monument Case, Cover, and Pipe", per each.

8-14.GR8

## Cement Concrete Sidewalks

~~8-14.1.GR8~~

~~**Description**~~

~~8-14.1.INST1.GR8~~

~~Section 8-14.1 is revised to read:~~

~~8-14.1.OPT1.GR8~~

~~(April 3, 2017)~~

~~This Work consists of constructing cement concrete sidewalks, curb ramps, bus stop shelter foundations, masonry sidewalks, and ramp grinding in accordance with details shown in the Plans, Standard Plans, these Specifications, and in conformity to the lines and grades shown in the Plans, Standard Plans, and as established by the Engineer.~~

8-14.2.GR8

## Materials

8-14.2(9-19.1).GR8

### Surface Applied Detectable Warning Surface

8-14.2(9-19.1(1)).GR8

#### General Requirements

The first paragraph of Section 9-19.1(1) is revised to read:

8-14.2(9-19.1(1)).OPT1.FR8

(October 3, 2022)

The color of detectable warning surfaces shall be *** $$1$$ ***.

Units shall provide the required contrast (light-on-dark or dark-on-light) with the adjacent curb ramp or other applicable walkway.

8-14.2(9-19.2).GR8

### Cast-in-Place Detectable Warning Surface

8-14.2(9-19.2(1)).GR8

#### General Requirements

The first paragraph of Section 9-19.2(1) is revised to read:

8-14.2(9-19.2(1)).OPT1.FR8

(October 3, 2022)

The color of detectable warning surfaces shall be *** $$1$$ ***.

Units shall provide the required contrast (light-on-dark or dark-on-light) with the adjacent curb ramp or other applicable walkway.

8-14.3.GR8

## Construction Requirements

8-14.3.INST1.GR8
Section 8-14.3 is supplemented with the following:

8-14.3.OPT1.GR8
(~~April 3, 2017~~October 3, 2022)
The Contractor shall request a pre-construction meeting with the Engineer to be held two to five working days before any work can start on cement concrete sidewalks, curb ramps or other pedestrian access routes to discuss construction requirements. Those attending shall include:

1. The Contractor and ~~S~~subcontractor in charge of constructing forms, and placing, and finishing the cement concrete.

2. Engineer (or representative) and Project Inspectors for the cement concrete sidewalk, curb ramp or pedestrian access route Work.

Items to be discussed in this meeting shall include, at a minimum, the following:

1. Slopes shown on the Plans.

2. Inspection

3. Traffic control

4. Pedestrian control, access routes and delineation

5. Accommodating utilities

6. Form work

7. Installation of detectable warning surfaces

8. Contractor ADA survey and ADA Feature as-built requirements

9. Cold Weather Protection

8-14.3.OPT2.GR8
***(January 7, 2019)***
***Timing Restrictions***
Curb ramps shall be constructed on one leg of the intersection at a time. The curb ramps shall be completed and open to traffic within five calendar days before construction can begin on another leg of the intersection unless otherwise allowed by the Engineer.

Unless otherwise allowed by the Engineer, the five calendar day time restriction begins when an existing curb ramp for the quadrant or traffic island/median is closed to pedestrian use and ends when the quadrant or traffic island/median is fully functional and open for pedestrian access.

8-14.3.OPT3.GR8

***(January 7, 2019)***

***Layout and Conformance to Grades***

Using the information provided in the Contract documents, the Contractor shall lay out, grade, and form each new curb ramp, sidewalk, and curb and gutter.

~~8-14.3(5).GR8~~

~~***Detectable Warning Surface***~~

~~8-14.3(5).INST1.GR8~~

~~The first paragraph of Section 8-14.3(5) is revised to read:~~

~~8-14.3(5).OPT1.GR8~~

~~(January 13, 2021)~~

~~The detectable warning surface shall be located as shown in the Contract Plans or Standard Plans. Placement of the detectable warning surface shall be in accordance with the manufacturer's recommendation for placement in fresh concrete, before the concrete has reached initial set, or on a hardened cement concrete surface. Glued or stick down Detectable Warning Surfaces are allowed on asphalt surfaces only for temporary work zone applications.~~

Page Intentionally Left Blank

8-21.GR8

## Permanent Signing

8-21.2.GR8

### Materials

8-21.2(9-06.16).GR8

***Roadside Sign Structures***

Section 9-06.16 is supplemented with the following:

8-21.2(9-06.16).OPT1.GR8

**(January 3, 2011)**

**Perforated Steel Square Sign Post System**

Where noted in the Plans, steel sign post systems shall be square, pre-punched galvanized steel tubing, that are NCHRP 350 Test Level 3 Certified and FHWA approved. The steel sign post system shall include all anchor sleeves, and other hardware required for a complete sign installation.

**System Acceptance**

Systems listed in the current QPL will be accepted per the QPL approval code. Systems not listed in the QPL will be accepted based on a Supplier's Certificate of Compliance. The Supplier's Certificate of Compliance will be a contract specific letter from the supplier stating the system is NCHRP 350 Test Level 3 compliant.

8-21.2(9-28.11).GR8

***Hardware***

Section 9-28.11 is supplemented with the following:

8-21.2(9-28.11).OPT1.GB8

(August 3, 2015)

Locknuts shown in the Plans specifying a locknut or locknut with nylon insert shall conform to one of the following:

1. ANCO Pin Locknut, with stainless steel locking pin, as manufactured by Lok-Mor, Inc.

2. Tri-lock Locknut, as manufactured by Lok-Mor, Inc.

3. Grade DH or 2H hex or heavy hex nuts conforming to one of the ASTM material specifications in the Locknut category of the Hardware table of this Section may be modified by installing a nylon insert washer. A minimum of 60-percent of the original number of threads shall meet the requirements of the applicable ASTM material specification after insertion of the nylon insert washer.

4. Hex or heavy hex nuts conforming to one of the ASTM material specifications in the Locknut category of the Hardware table of this Section may be modified by adding one of the following products to a minimum of one-half of the internal threads of the nut and the entire exterior top surface of the nut:

a. Nylok Blue Torq-Patch Locknut.

b. Nylok Precote 30.

c. ND Patch 360 Ring Patch.

The nuts with any of the three listed products are permitted for a single use only and shall have a maximum of two nut widths of thread extending beyond the nut after installation.

The alternatives to locknuts specified in Standard Plans G-90.20, G-90.30, and J-75.41 are deleted and replaced with the four options specified above.

8-21.2(9-28.12).GR8

***Reflective Sheeting***

Section 9-28.12 is revised to read:

8-21.2(9-28.12).OPT1.2024.GR8

(October 3, 2022)

Reflective sheeting material shall conform to ASTM D4956 – *Standard Specification for Retroreflective Sheeting for Traffic Control*.

| **Device Type** | **Use** | **Sheeting Color** | **Allowable Sheeting Types** |
|---|---|---|---|
| **Signs** | | | |
| Permanent Signing | All | All | III, IV[1] |
| Temporary Construction Warning Signs | All | Fluorescent Orange | VIII, IX,X, XI[2] |
| Temporary Construction Regulatory Signs | All | White | IV |
| Temporary Construction Regulatory Signs | Rural | White | II[3] |
| Temporary Construction Regulatory Signs | Urban/Rural | White | III[3] |
| Temporary Construction Regulatory Signs | All | Red | III, IV |
| Temporary Construction Regulatory Signs | All | Green | II, IV |
| Temporary Construction Regulatory Letters, border or symbols | | Green | III, IV[3] |
| Temporary Construction Signs | All | All Other Background Colors | III[3], IV |
| **Other Devices** | | | |
| Barricades | All | White or Orange | III[3], IV |
| Barrier Delineators | All | White or Yellow | III, IV, V XI |

| | | | |
|---|---|---|---|
| Bollards | All | All | IV |
| Flexible Guidepost | All | All | III, IV, V |
| Object Makers | All | All | III, IV |
| Pedestrian Channelization Devices | All | White or Orange | III[3], IV |
| Tall Channelization Devices 42-inch | All | Fluorescent Orange/White | VIII, IX, XI[4] |
| Traffic Cones 36-inch and 28-inch | All | White or Higher White | III[3], IV |
| Traffic Safety Drums | All | Fluorescent Orange/White | VIII, IX, XI[4] |
| Transportable Attenuators | All | Yellow and Black Chevron | III[3], IV |
| Transportable Attenuators | All | White and Red Chevron | IV |
| Tubular Markers (portable or pavement mounted) | All | White or Yellow | III[3], IV |

Notes:

1. Except Overhead Warning Signs shall use Type XI and overhead exit only shall use Type IV or XI fluorescent yellow.

2. Former Type X, not shown in ASTM D4956, however meets requirements of Types VII, IX and XI.

3. Only devices in inventory may be used, new fabrication shall use Type IV.

4. Type III and Type IV orange and white sheeting may be still used through December 31, 2026.

8-21.2(9-28.14).GR8

***Sign Support Structures***

Section 9-28.14 is supplemented with the following:

8-21.2(9-28.14).OPT6.GR8

**(September 8, 2020)**

**Manufacturers for Steel Roadside Sign Supports**

The Standard Plans lists several steel sign support types. These supports are patented devices and many are sole-source. All of the sign support types listed below are acceptable when shown in the Plans.

| Steel Sign Support Type | Manufacturer |
|---|---|
| Type TP-A & TP-B | Transpo Industries, Inc. |
| Type PL, PL-T & PL-U | Northwest Pipe Co. |
| Type AS | Transpo Industries, Inc. |

| | |
|---|---|
| Type AP | Transpo Industries, Inc. |
| Type ST 1, ST 2, ST 3, & ST 4 | Ultimate Highway Solutions, Inc.,<br>Allied Tube & Conduit Corp.<br>(Mechanical Division),<br>Trinity Highway Products, LLC. |
| Type SB-1, SB-2, & SB-3 | Ultimate Highway Solutions, Inc.,<br>Xcessories Squared Development and<br>Manufacturing Incorporated,<br>Trinity Highway Products, LLC. |

8-21.3.GR8

## Construction Requirements

8-21.3(9).GR8

### *Sign Structures*

8-21.3(9)E.GR8

#### Bridge Mounted Sign Brackets

8-21.3(9)E.INST1.GR8

Section 8-21.3(9)E is supplemented with the following:

8-21.3(9)E.OPT1.FB8

(April 6, 2015)

Bridge Mounted Sign Bracket No(s). *** $$1$$ *** include the following quantities of structural carbon steel:

*** $$2$$ ***

For bridge mounted sign brackets mounted with resin bonded anchors, the Contractor shall install resin bonded anchors in accordance with Section 6-02.3(18) as supplemented in these Special Provisions. For this type of mounting, Bridge Mounted Sign Bracket No(s). *** $$3$$ *** include the following quantities of drilled holes:

*** $$4$$ ***

8-21.4.GR8

## Measurement

8-21.4.INST1.GR8

Section 8-21.4 is supplemented with the following:

8-21.4.OPT1.FB8

(September 8, 2020)

*** $$1$$ *** contain(s) the following approximate quantities of material and work:

*** $$2$$ ***

The quantities are listed only for the convenience of the Contractor in determining the volume of work involved and are not guaranteed to be accurate. The prospective bidders shall verify these quantities before submitting a bid. No adjustments other than for accepted changes will be made in the applicable sign structure lump sum Contract price even though the actual quantities required may deviate from those listed.

Page Intentionally Left Blank

8-22.GR8

## Pavement Marking

8-22.4.GR8

### Measurement

~~8-22.4.INST1.GR8~~

~~Section 8-22.4 is supplemented with the following:~~

~~8-22.4.OPT1.2023.GR8~~

~~(January 10, 2022)~~

~~Wide Dotted Entry Line will be measured by the completed linear foot as "Painted 12-inch Line" or "Plastic 12-inch Line". No deduction will be made for the unmarked area when the marking includes a broken or dotted line.~~

~~8-22.4.INST2.GR8~~

~~The fourth and fifth paragraphs of Section 8-22.4 are revised to read:~~

~~8-22.4.OPT2.2023.GR8~~

~~(January 10, 2022)~~

~~Wide dotted circulating lane line, wide solid lane line, strong lane line, wide edge line, wide lane line, wide broken lane line, double wide lane line, wide dotted lane line, and wide dotted extension line will be measured by the completed linear foot as "Painted Wide Line", "Plastic Wide Line", "Profiled Plastic Wide Line", Profiled Embossed Wide Line", or "Grooved Plastic Wide Line".~~

~~The measurement for "Painted Wide Line", "Plastic Wide Line", "Profiled Plastic Wide Line", "Profiled Embossed Wide Line", or "Grooved Plastic Wide Line" will be based on the total length of each 8-inch wide line installed. No deduction will be made for the unmarked area when the marking includes a broken or dotted line.~~

~~8-22.4.INST3.GR8~~

~~The second to last paragraph of Section 8-22.4 is revised to read:~~

~~8-22.4.OPT3.2023.GR8~~

~~(January 10, 2022)~~

~~Removal of lines, regardless of width, will be measured by the linear foot, with no deduction being made for the unmarked area when the marking includes a gap.~~

8-22.5.GR8

### Payment

~~8-22.5.INST1.GR8~~

~~Section 8-22.5 is supplemented with the following:~~

~~8-22.5.OPT1.2023.GR8~~

~~(January 10, 2022)~~

~~"Painted 12-inch Wide Line", per linear foot.~~

~~"Plastic 12-inch Wide Line", per linear foot.~~

Page Intentionally Left Blank

8-23.GR8

# Temporary Pavement Markings

8-23.2.GR8

## Materials

8-23.2(9-34).GR8

***Pavement Marking Material***

Section 9-34 is supplemented with the following::

8-23.2(9-34).OPT1.GR8

**(October 3, 2022)**

**Temporary Adhesive Transverse Rumble Strips**

Temporary Adhesive Transverse Rumble Strips shall consist of a self-adhesive orange rumble strips that is 4 inches wide and 0.250 inches thick.

Temporary Adhesive Transverse Rumble Strips shall be manufactured by Advanced Traffic Markings, Seton, Stop-Painting, or an approved equal.

8-23.3.GR8

## Construction Requirements

8-23.3(4).GR8

***Pavement Marking Application***

8-23.3(4)A.GR8

**Temporary Pavement Markings – Short Duration**

8-23.3(4)A.INST1.GR8

Section 8-23.3(4)A is supplemented with the following:

8-23.3(4)A.OPT1.GR8

(October 3, 2022)

**Temporary Adhesive Transverse Rumble Strips** - A SOLID line used as an advance warning device. Each line shall be continuous and placed in the travel lane, perpendicular to the flow of traffic, as shown in the Plans. Each temporary transverse rumble strip shall be applied in accordance with the manufacturer's recommendation.

Temporary adhesive transverse rumble strips may be used on two-way, two-lane roadways in conditions requiring traffic to stop.

Do not place temporary adhesive transverse rumble strips on sharp horizontal or vertical curves, through pedestrian crossings or on bicycle routes. When placed on roadways used by bicyclists a minimum clear path of 4 feet shall be provided at each edge of the roadway or on each paved shoulder if feasible.

Temporary adhesive transverse rumble strips shall be repaired immediately when it no longer provides the intended use. Temporary adhesive transverse rumble strips will be removed when they are no longer required.

8-23.4.GR8

**Measurement**

8-23.4.INST1.GR8

Section 8-23.4 is supplemented with the following:

8-23.4.OPT1.GR8

(October 3, 2022)

Temporary Adhesive Transverse Rumble Strips will be measured by the linear foot of each installed line for the initial installation only. Repair, for any reason, of temporary transverse rumble strips will not be measured.

8-23.5.GR8

**Payment**

8-23.5.INST1.GR8

Section 8-23.5 is supplemented with the following:

8-23.5.OPT1.GR8

(October 3, 2022)

“Temporary Adhesive Transverse Rumble Strips”, per linear foot.

The unit Contract price per linear foot for “Temporary Adhesive Transverse Rumble Strips” shall be full pay for all Work as specified.

8-31.GR8

# Temporary Stream Diversion

8-31.3.GR8

## Construction Requirements

8-31.3(1).GR8

### *General*

8-31.3(1)A.GR8

#### General TSD Requirements

8-31.3(1)A.INST1.GR8

Section 8-31.3(1)A is supplemented with the following:

8-31.3(1)A.OPT1.FR8

**(October 3, 2022)**

**Minimum Stream Flows**

At all times of operation, the Contractor's temporary stream diversion shall be designed to convey the following minimum flow rate of water in cubic feet per second:

*** $$1$$ ***

8-31.3(1)A.OPT2.FR8

**(October 3, 2022)**

**Minimum Stream Flows (Contingency System)**

A Contingency System is required for this Project. The Contractor's contingency system shall be designed to convey the following minimum flow rate of water in cubic feet per second:

*** $$1$$ ***

8-31.3(3).GR8

### *Fish Block Net Installation and Fish and Aquatic Species Exclusion*

8-31.3(3)B.GR8

#### Contracting Agency Provided Materials

8-31.3(3)B.INST1.GR8

Section 8-31.3(3)B is supplemented with the following:

8-31.3(3)B.OPT1.FR8

(October 3, 2022)

The Contracting Agency will provide the following fish exclusion materials:

*** $$1$$ ***

Page Intentionally Left Blank

8-SA1.GR8

**(August 7, 2017)**

# FIELD OFFICE BUILDING

## Description

This work shall consist of furnishing and setting-up a temporary office building for the sole use of the Contracting Agency.

### Construction Requirements

The building shall be set-up, at the location designated by the Engineer, within the first 10 working days, unless the Engineer has approved a different schedule.

The building shall be weather-tight, installed plumb and level, and provided with the following as a minimum:

1. 240 square feet of floor space
2. Above ground floor
3. Heat
4. Electric lights
5. Telephone
6. Adequate windows
7. Six square feet of shelving
8. Plan table: 3 feet 6 inches deep by 6 feet wide by 3 feet 3 inches high
9. Drafting stool
10. Conference table: 4 foot by 8 foot
11. Four chairs
12. Cylinder door lock and six keys
13. Sanitary facilities (unless existing facilities are available)

The building shall remain the property of the Contractor and removed from the site upon physical completion of the contract, or when designated by the Engineer.

### Payment

Payment will be made for the following bid item when included in the proposal:

"Field Office Building", lump sum.

The lump sum contract price for "Field Office Building" shall be full pay for furnishing, installing, maintaining, and removing the facility, including all costs associated with all required utility hook-ups and disconnects, and monthly utility charges for all utilities except telephone.

The monthly telephone costs will be paid by the Contracting Agency.

8-SA2.GR8

**(~~January 2, 2018~~October 3, 2022)**

# BOLLARDS

## Description

This work shall consist of furnishing and installing steel bollards in accordance with the Plans, Standard Plans, and these Specifications, at the locations shown in the Plans or as staked by the Engineer.

## Materials

### *Posts and Hardware*

Type 1 and Type 2 bollard posts shall be in accordance with the Standard Plans and ASTM A 53, NPS 3 (3" Nom.) schedule 80 steel pipe. Post sleeves shall be ASTM A 53, NPS 4 (4"Nom.) schedule 40 steel pipe.

Type 3 bollard posts shall be steel structural tubing in accordance with the Plans and ~~per~~ ASTM A 500 Gr B.

Steel plate shall be in accordance with ASTM A 36.

All steel parts shall be hot-dip galvanized after fabrication in accordance with AASHTO M 111.

### *Reflective Tape*

Reflective tape shall be in accordance with Section 9-28.12.~~one of the following or an approved equal:~~

~~Scotchlite High Intensity Grade Series 2870~~
~~Reflexite AP-1000~~
~~Scotchlite Diamond Grade LDP Series 3970~~
~~T-6500 High Intensity (Type IV)~~

### *Concrete*

Footings shall be constructed using concrete Class 3000.

## Construction Requirements

Bollards shall be constructed in accordance with the Standard Plans.

Bollards shall not vary more than ½ inch in 30 inches from a vertical plane.

Bollard posts and the exposed parts of the base assembly shall be painted in accordance with Section 6-07.3(11) for galvanized surfaces. The top coat shall match SAE AMS Standard 595, Color No. 33538 Traffic Signal Yellow.

## Measurement

Measurement for bollards will be by the unit for each type of bollard furnished and installed.

## Payment

Payment will be made for the following bid items when included in the proposal:

"Bollard Type ___", per each.

8-SA3.GR8

**(August 6, 2018)**

## Environmental Compliance

## Description

It is the Contractor's responsibility to conduct and perform all Work in accordance with Environmental Regulations, Environmental Commitments, permits, and Plans that the Work is subject to. The Environmental Compliance Lead (ECL) shall be the Contractor's

representative that is responsible for management of the Contractor's environmental compliance.

## Construction Requirements

### *Environmental Compliance Lead (ECL)*

The Contractor shall designate a primary ECL and an alternate ECL to perform the duties of the ECL. The Contractor shall provide the Engineer with a copy of the formal assignment in writing prior to the start of construction. The Contractor's superintendent and/or foreman cannot be designated as the primary or alternate ECL.

The ECL shall represent all Contractor work actions for the project, regardless of whether the work is performed by the Contractor or one of the subcontractors. The ECL shall have the authority to direct work to expeditiously correct any environmental compliance deficiency and coordinate these measures with the Engineer, and to order the Contractor's on-site personnel to stop work that is not being performed in compliance with the permits.

The ECL shall be on-site during all work activities unless otherwise approved by the Engineer. The Contractor shall maintain 24-hour telephone numbers at which the Contractor's designated ECL can be contacted and be available upon the Engineer's request during other than normal working hours. ECL and alternate(s) shall be listed on the Emergency Contact List required under Section 1-05.13(1).

The ECLs shall have, for the life of the Contract, a current Certificate of Training in Construction Site Erosion and Sediment Control (CESCL) from a course approved by the Washington State Department of Ecology.

The primary responsibilities of the ECL are to assist the Contractor's superintendent in planning and scheduling work activities to achieve environmental compliance; and be present on-site to observe work activities and resolve environmental compliance issues as they may develop.

The duties of the ECL shall also include the following requirements:

- Erosion and Sediment Control (ESC) Lead, Section 8-01.3(1)B,
- Updating the Spill Prevention, Control and Countermeasures Plan, Section 1-07.15(1),
- Attending the preconstruction conference (ECL and alternates),
- Evaluation of the Contractor's work operations and schedule in regard to environmental risks,
- Providing advanced notification to the Engineer of work activities that may create environmental compliance concerns.

## Payment

Payment will be made for each of the following Bid items that are included in the Proposal:

"Environmental Compliance Lead", lump sum.

The lump sum Contract price for "Environmental Compliance Lead" shall be full payment for all costs for the Work. When the proposal includes an item for Environmental Compliance Lead all costs for ESC Lead in Section 8-01 shall be included in the lump sum price.

8-SA4.FR8

**(October 3, 2022)**

# WATER CROSSINGS

## Description

This Work consists of furnishing, mixing, and placing aggregates for streams, rivers and waterbodies of the type specified at the locations and in conformity with the lines and dimensions shown in the Plans or established by the Engineer.

### *Definitions*

Aquitard - A bedding or stratum of sediment with low permeability that resists subsurface flow.

Blended Streambed Aggregate - Blended streambed aggregates are defined as a mix of the aggregates with the associated ratios in accordance with the Special Provisions or as shown in the Plans.

## Materials

### *Streambed Aggregates*

Streambed aggregates shall be naturally occurring water rounded aggregates. Aggregates from quarries, ledge rock, and talus slopes are not acceptable for these applications. Streambed aggregates shall meet the following test requirements for quality:

| Aggregate Property | Test Method | Requirement |
|---|---|---|
| Degradation Factor | WSDOT T 113 | Degradation Factor |
| Los Angeles Wear, 500 Rev. | AASHTO T 96 | 50% max. |
| Bulk Specific Gravity | AASHTO T 85 | 2.55 min. |

Material for streambed aggregates shall be free of deleterious material. Deleterious material includes wood, organic waste, coal, charcoal, or any other extraneous or objectionable material. The material shall not contain more than 3 percent organic material by weight. At the discretion of the Engineer, the percent of deleterious materials may be determined visually or be tested in accordance with AASHTO T 194 or AASHTO T 267.

### *Streambed Sediment*

Streambed sediment shall meet the following requirements for grading. If the Contractor proposes an alternate gradation, the Contractor shall submit a Type 2 Working Drawing consisting of 0.45 power maximum density curve of the proposed gradation. The alternate gradation shall closely follow the maximum density line and have Nominal Aggregate Size of no less than 1½ inches or no greater than 3 inches. The exact point of acceptance will be determined by the Engineer.

| Streambed Sediment | |
|---|---|
| **Sieve Size** | **Percent Passing** |
| 2½" | 99-100 |
| 2" | 85-100 |
| 1" | 50-82 |
| 1/2” | 28-68 |
| No. 40 | 10-20 |
| No. 200 | 5-10 |

| All percentages are by weight. |
|---|

### *Streambed Fine Sediment*

Streambed fine sediment shall meet the following requirements for grading. If the Contractor proposes an alternate gradation, the Contractor shall submit a Type 2 Working Drawing consisting of 0.45 power maximum density curve of the proposed gradation. The alternate gradation shall closely follow the maximum density line and have Nominal Aggregate Size of no less than the No 6 sieve or no greater than ¼ inch sieve. The exact point of acceptance will be determined by the Engineer.

| Streambed Sediment | |
|---|---|
| **Sieve Size** | **Percent Passing** |
| No. 4 | 99-100 |
| No. 10 | 46-86 |
| No. 40 | 26-40 |
| No. 200 | 10-20 |
| All percentages are by weight. | |

### *Streambed Cobbles*

Streambed cobbles shall be clean, naturally occurring water rounded gravel material. Streambed cobbles shall have a well-graded distribution of cobble sizes and conform to one or more of the following gradings as shown in the Plans:

| Percent Passing | | | | | |
|---|---|---|---|---|---|
| **Approximate Size[1]** | **4" Cobbles** | **6" Cobbles** | **8" Cobbles** | **10" Cobbles** | **12" Cobbles** |
| 12" | | | | | 99-100 |
| 10" | | | | 99-100 | 70-90 |
| 8" | | | 99-100 | 70-90 | |
| 6" | | 99-100 | 70-90 | | |
| 5" | | 70-90 | | | 30-60 |
| 4" | 99-100 | | | 30-60 | |
| 3" | 70-90 | | 30-60 | | |
| 2" | | 30-60 | | | |
| 1½" | 20-50 | | | | |
| ¾" | 10 max. | 10 max. | 10 max. | 10 max. | 10 max. |

[1]Approximate Size can be determined by taking the average dimension of the three axes of the rock, Length, Width, and Thickness, by use of the following calculation:

$$\frac{\text{Length}+\text{Width}+\text{Thickness}}{3} = \text{Approximate Size}$$

Length is the longest axis, width is the second longest axis, and thickness is the shortest axis.

The grading of the cobbles shall be determined by the Engineer by visual inspection of the load before it is dumped into place, or, if so ordered by the Engineer, by dumping individual loads on a flat surface and sorting and measuring the individual rocks contained in the load.

### *Streambed Boulders*

Streambed boulders shall be hard, sound, and durable material, free from seams, cracks, and other defects tending to destroy its resistance to weather. Streambed boulders shall

be rounded to sub-angular in shape and the thickness axis shall be greater than 60 percent of the length axis. Streambed boulders sizes are approximately as follows, see Plans for sizes specified:

| Rock Size[1] | Approximate Size |
|---|---|
| Type One | 12" - 18" |
| Type Two | 18" - 28" |
| Type Three | 28" - 36" |
| Type Four | 36" - 48" |
| Type Five | 48" - 54" |
| Type Six | 54" - 60" |

[1]Approximate Size can be determined by taking the average dimension of the three axes of the rock, Length, Width, and Thickness, by use of the following calculation:

$$\frac{\text{Length}+\text{Width}+\text{Thickness}}{3} = \text{Approximate Size}$$

Length is the longest axis, width is the second longest axis, and thickness is the shortest axis.

### *Streambed Sand*

Streambed sand shall meet the following requirements for grading. If the Contractor proposes an alternate gradation, the Contractor shall submit a Type 2 Working Drawing consisting of 0.45 power maximum density curve of the proposed gradation. The exact point of acceptance will be determined by the Engineer. The alternate gradation shall closely follow the maximum density line and have Nominal Aggregate Size of no less than the ⅜ inch or no greater than ⅝ inch.

Streambed sand shall consist of natural unwashed material, having hard, strong, durable particles free from adherent coating or deleterious matter, as accepted by the Engineer. At the discretion of the Engineer, the percent of deleterious materials may be determined visually or be tested in accordance with AASHTO T 194 or AASHTO T 267.

| Sieve Size | Percent Passing |
|---|---|
| ½” | 99-100 |
| 3⁄8” | 90-100 |
| No 4 | 90 Max |
| No. 8 | 32-67 |
| No. 200 | 2-7 |
| All percentages are by weight. | |

### *Aquitard Bedding Material*

Aquitard bedding material shall consist of natural unwashed silty material, having hard, strong, durable particles free from adherent coating, and capable of preventing subsurface flows, as accepted by the Engineer. Aquitard bedding material shall not contain deleterious matter.

### *Blending Streambed Aggregates*

*** $$1$$ ***

## Construction Requirements

### *Streambed Preconstruction Conference*

A streambed preconstruction conference shall be held at least 7 calendar days prior to the Contractor beginning streambed construction. The Contractor shall notify the Engineer 14 calendar days prior to the meeting taking place and should indicate within the notice if they intend to evaluate native streambed materials for use on the project. The purpose of the meeting is to discuss the goals, objectives, intent, streambed construction procedures, critical functions during stream work, potential use of native streambed excavation materials, quality control steps to control mixing ratios, personnel, equipment to be used, and other elements of construction.

Those attending shall include:

1. (Representing the Contractor) The superintendent or on-site supervisors, the Environmental Compliance Lead and other personnel or subcontractors that will have on-site responsibility for in-channel streambed Work.

2. (Representing the Contracting Agency) The Engineer, WSDOT Headquarters Hydraulics, key inspection personnel, and other key staff as appropriate will be invited by the Contracting Agency.

3. Representatives from interested permitting agencies and affected Tribes will be invited by the Contracting Agency.

### *Onsite Streambed Evaluation Meeting*

The onsite streambed evaluation meeting shall be held at least 7 calendar days prior to the Contractor reintroducing flows into the new channel or removal of the temporary stream diversion, whichever occurs first. The Contractor shall notify the Engineer 14 calendar days prior to the meeting taking place. The purpose of this prefinal inspection is to conduct an evaluation of the constructed streambed and Woody Material installation to ensure the work was completed in compliance with the Contract and permit requirements

Those attending shall include:

1. (Representing the Contractor) The superintendent, on-site supervisors, the Environmental Compliance Lead and other personnel that will have on-site responsibility for in-channel streambed Work.

2. (Representing the Contracting Agency) The Engineer, WSDOT Headquarters Hydraulics, key inspection personnel, and other staff as appropriate will be invited by the Contracting Agency.

3. Representatives from interested permitting agencies and affected Tribes will be invited by Contracting Agency.

### *Mixing of Streambed Aggregates*

Streambed sediment, streambed fine sediment, streambed cobbles, streambed sand, and aquitard bedding material will be separately tested and accepted by the Engineer prior to delivery, placement in a stockpile or blending activities.

After acceptance by the Engineer, streambed aggregates shall be thoroughly blended before placement. Acceptance of the final mixture of blended streambed aggregate will be based upon visual inspection by the Engineer.

Native streambed aggregates may be available from the existing streambed excavation limits as shown in the Contract Plans. Components of the excavated streambed which meet the criteria for the specific material may be used to supplement imported streambed aggregates. The Contracting Agency will compensate the Contractor by change order in accordance with Section 1-04.4.

### *Placement of Streambed Aggregates*

#### Aquitard

Aquitard bedding material shall be placed as shown in the plans. After placement, the bedding material shall be compacted to be uniformly dense and unyielding.

#### Stockpiling Aggregate

Streambed aggregates, as described above, shall be blended into single well graded stockpiles separate from other aggregates.

#### Placing Blended Streambed Aggregates in Streambed

Blended streambed aggregate shall be placed in the prepared channel excavation to the lines and grades shown on the Plans and in such a way as to prevent material segregation. Blended streambed aggregate shall be placed in lifts no thicker than 12 inches. Blended streambed aggregate in its final location shall be a well graded mix.

Placement of blended streambed aggregate shall be constructed to ensure that stream low flow rate of 30 gallons per minute is conveyed above each channel lift. The Contractor shall apply water and Streambed Sand at a rate of 30 gallons per minute to each lift to facilitate filling the interstitial voids of the blended streambed aggregate. Adjustment of the low flow rate may be required to ensure that the voids are satisfactorily filled. The voids are satisfactorily filled when the 30 gallons per minute flow rate does not go subsurface and there is no perceivable difference in the low flow rate from upstream of the project limits to the downstream of project limits. The Contractor shall apply water at the 30 gallons per minute flow rate to the stream channel for visual acceptance by the Engineer. Water shall be free from contaminates, chlorination and additives that have a risk on fish and other ecological life.

#### Placing Blended Streambed Aggregates in Streambank

Blended streambed aggregate placed in the streambanks shall be placed in lifts no thicker than 12 inches. The Contractor shall compact each lift to be uniformly dense and unyielding as approved by the Engineer.

#### Additional Streambed Grading

Changes to the streambed may be directed at the streambed evaluation meeting.

## Measurement

Streambed Sediment will be measured per ton.
Streambed Fine Sediment will be measured per ton.
Streambed Cobbles __ In. will be measured per ton.
Streambed Boulders Type __ will be measured per each.
Streambed Sand will be measured per ton.

Aquitard will be measured per ton.

## Payment

Payment will be made in accordance with Section 1-04.1, for each of the following Bid items that are included in the Proposal:

"Streambed Sediment", per ton.
"Streambed Fine Sediment", per ton.
"Streambed Cobbles __ In.", per ton.
"Streambed Boulders Type __", per each.
"Streambed Sand", per ton.
"Aquitard", per ton.
The unit Contract price per ton for "Streambed Sediment", "Streambed Fine Sediment", "Streambed Cobbles __ In.", "Streambed Boulders Type __", "Streambed Sand" and "Aquitard" shall be full payment for all costs to perform the Work as specified including blending of streambed aggregates and watering in each lift, including supply and application of water to facilitate filling the interstitial voids.

"Additional Streambed Grading", by Force Account in accordance with 1-09.6.
For the purpose of providing a common Proposal for all Bidders, the Contract Agency has entered an amount for the item "Additional Streambed Grading" in the Bid Proposal to become a part of the total bid by the Contractor.

8-SA4(9-03.11).GR8

## Streambed Aggregates

Section 9-03.11, including all subsections, is deleted.

8-SA5.GR8

## (October 3, 2022)
## WOODY MATERIAL

## Description

This Work consists of furnishing and installing Woody Materials and Slash where designated in the Plans or determined by the Engineer.

### *Definitions*

**Woody Material** – Logs, rootwads, or stumps greater than 4 inches in diameter. The size and length of Woody Material will be as designated in the Plans.
**Slash** – Branches, small trees, brush, and treetops smaller than 4 inches in diameter.

## Materials

### *Woody Material*

Woody Material shall be a log with or without rootwad, of the diameter and length specified in the plans and shall meet the following requirements:

1. Woody Material – Log with rootwad - A trunk of a native coniferous tree species with the length as designated in the plans (measured from the cut end of the log to the start of the rootwad mass). Trunk diameter at breast height (DBH) as designated in the plans. DBH measured 4.5-feet from the start of the rootwad mass.

2. Woody Material – Log without rootwad - A trunk of a native coniferous tree species with the length as designated in the plans (from cut end to cut end). The cut end of the log shall be no more than 4-inches narrower than the specified DBH.

3. The rootwad diameter shall be a minimum of 2.5 times the DBH and maximum 4 times DBH with roots intact. Woody Material shall be free of soil and rocks, and rot and disease, and shall be structurally sound. Cleaning shall not strip logs of bark and roots.

4. The acceptable tolerance of DBH as specified in the plans is ±3 inches.

5. The acceptable tolerance of the length of Woody Materials is ±6 inches.

Woody Material may be available from trees removed by excavation or clearing and grubbing limits as shown in the Plans. Components of the removed trees which meet the criteria for the specific Woody Material may be used to supplement the Woody Material and will accepted by a visual inspection by the Engineer.

***Slash***

Slash shall consist of a random assortment of branches, trees, brush and treetops of the following native species: Western red cedar (Thuja plicata), douglas fir (Pseudotsuga mensezeii), western hemlock (Tsuga heterophylla) coniferous trees, or various hardwood trees. No more than 50% of hardwood species shall be used. The needles shall be left intact to the extent possible given the mechanics of handling Slash. The maximum diameter of any piece of slash shall be 4 inches. The maximum length of any piece of Slash shall be 6 feet. Slash shall not contain any material which causes turbidity.

Slash shall consist of a random assortment of branches, trees, brush and treetops of the following native species: Western red cedar (Thuja plicata), douglas fir (Pseudotsuga mensezeii), western hemlock (Tsuga heterophylla) coniferous trees, or various hardwood trees. No more than 50% of hardwood species shall be used. The needles shall be left intact to the extent possible given the mechanics of handling Slash. The maximum diameter of any piece of Slash shall be 4 inches. The maximum length of any piece of Slash shall be 6 feet. Slash shall not contain any material which causes turbidity.

## Construction Requirements

The streambed and bank shall be temporarily excavated to allow placement of the Woody Material. Backfill shall be native material or designed streambed material. Backfill shall be placed in lifts no thicker than 12 inches and shall be compacted to be uniformly dense and unyielding as approved by the Engineer.

The Contractor shall install each Woody Material at the location and elevation shown in the Plans.

The Contractor shall exercise care when placing the Woody Material to ensure that the method of installation minimizes disturbance of waterways and prevents sediment or pollutant discharge into water.

The Contractor shall exercise care when installing and transporting the Woody Materials to avoid damage. Rootwads shall remain intact during delivery and installation.

Acceptance of Woody Material will be based upon inspection by the Engineer, prior to placement.

## Measurement

Woody Material – Log without Rootwad and Woody Material – Log with Rootwad will be measured per each.

Slash will be measured by the cubic yard, in the hauling conveyance.

## Payment

Payment will be made in accordance with Section 1-04.1, for each of the following bid items.

"Woody Material - Log without Rootwad DBH _____", per each.
"Woody Material - Log with Rootwad DBH _____", per each.
The unit contract price for each "Woody Material - Log without Rootwad DBH _____" and "Woody Material - Log with Rootwad DBH _____" shall be full payment for construction of one log with or without rootwad as specified, including acquiring, storing, hauling to the site, unloading, assembling, bundling, installing, anchoring, excavation, backfill, compaction and grading needed for final placement.

"Slash", per cubic yard.
The unit Contract price per cubic yard for "Slash" shall be full payment for all costs to complete the Work as specified, including acquiring, storing, hauling to the site, unloading, assembling, bundling, installing, anchoring, excavation, backfill, compaction and grading needed for final placement.