



November 20, 2018

TO: Derek Case,  
MS-47354

THRU: A. Amiri / K. Klingman,  
NB82-230

FROM: P. Fuller / J. Prieto  
NB82-66

SUBJECT: Contract 9160  
SR99, AWV-Replacement South Access SR99 Connections  
**CHANGE ORDER #022**  
**SR99 Roadway Settlement Repair**

Attached for your review and execution is change order No. 022 "SR99 Roadway Settlement Repair". This change order has been processed in accordance with the attached change order checklist (*Attachment A*).

**Description of Change**

This change order will provide compensation to the Contractor for the added work to modify the SR99 roadway profile by installing tapered overlays and modifying the existing traffic barrier.

**Development of the Change**

The roadway was constructed as part of the AWV SR99-Holgate to King Stage 2 project about 7 years ago. Over the last year, a dip formed in the pavement as a result of the subgrade settlement. The added work of this repair was reviewed and analyzed to determine the risks that were involved in performing this work, either before the tunnel was open during the Permanent Viaduct Closure (PVC) or postponed until after the SR99 Tunnel was open.

If this work was postponed until the tunnel is open the costs and the impacts to the traveling public would increase as most of the work will require extensive lane closures for the cure time to the concrete. A decision was made to have this work performed under Contract 9160 to minimize the overall costs and impacts to the traveling public.

**Approvals**

- PE Approval – Patrick Fuller gave approval on 8/2/2018 (*Attachment B*).
- Region Approval – Ali Amiri gave approval on 9/13/2018 (*Attachment B*).
- HQ Constr. Approval – Derek Case gave approval on 9/13/2018 (*Attachment B*).
- AWW Prog. Administrator – Brian Nielsen concurred on 5/09/2018 (*Attachment B*).
- AWW Program Management – Mario Mathisen gave approval on 11/20/2018 (*Attachment B*).

**Entitlement**

This work was added to Contract, as such the Contractor is entitled to additional compensation that include risk costs in the event the Prime Contractor would have to complete a subcontractor's work, weather affecting timely completion, concrete cure time.

**Price**

The Contractor proposed \$562,070.52 for this added work. Our estimate came to be \$547,607.71 (*Attachment C*). We accepted their proposal.

**Contract Time**

Contract time is not adjusted by this change order. No changes to Contract interim milestones are made as a result of the change order.

PF:vs  
Attachments  
File: C9160 5(022)

**CHANGE ORDER-CHECKLIST**

*Attach A*

Cont. #: <u>9160</u> Cont. Title: <u>SR99_AWV-Replacement South Access-SR99 Connections</u> C.O. #: <u>22</u> C.O. Title: <u>SR99 Roadway Settlement Repair</u>	If yes, State Construction Office Approval Required.
<b>I. Executed by the State Construction Office</b>	
1. Cost or credit equal to or exceeding \$500,000. *1, *3	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No      X
2. Change in the contract documents beyond the scope, intent or termini of the original contract. *2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      X
3. Any proposed revision or deletion of work that affects the condition of award requirements. (Must be coded "CO" in CCIS, Includes changes to goal or commitment)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      X
4. Change in contract time greater than 30 working days, or a change in contract time not related to any change order. *1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      X
<b>II. Executed at the Region (Per Delegation) value less than \$500,000 and up to 30 days</b>	
5. Determination of impacts and/or overhead.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      X
6. Change to Contract Provisions or Standard Plans.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      X
7. Material or product substitution. (Excludes materials associated with Std. Specification Sections 6-07, 8-01, 8-02, 8-12, 8-18 & 8-20)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      X
8. Structural design change in the roadway section. (Requires concurrence from designer)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No      X
9. Determination of changed condition. (Section 1-04.7 of the Standard Specifications)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      X
10. Settlement of a claim. (Section 1-09.11(2) of the Standard Specifications)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      X
11. Repair of damage regarding "acts of God" or "acts of the public enemy or of government authorities". (Section 1-07.13 of the Standard Specification)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      X
12. Structural change to structures.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      X

NOTE: PE delegated authority to execute value less than \$100,000 and up to and including 10 days

**Approvals obtained:**

Project Engineer: <u>Patrick Fuller</u>	Date: <u>8/2/2018</u>
Region: <u>Brian Nelson/ Ali Amiri</u>	Date: <u>5/9/2018</u> <i>9/13/18</i>
State Construction Office: <u>Derek Case</u>	Date: <u>9/13/2018</u>
Other (Local Agency, FHWA, Surety, etc.): _____	Date: _____

**To be completed by the Project Engineer :**

CO Reason(s) (See "2008 Codes & Definitions" on State Construction Office web page): AI & 18 UC - RS

Change Order Prepared By: Vinod Sangani      Date: 11/20/2018

Is this project under full FHWA stewardship oversight (Project Of Division Interest)? \*1     Yes     No

**To be completed by the Region :**

Is the change eligible for Federal participation where applicable?     Yes     No    *N/A*

Change Order Reviewed By: Kathy Zilgner      Date: 11/27/18

*R*

\*1 Change (Cost or Credit) greater than \$200,000 or greater than 30 days on Projects Of Division Interest (PODI) requires FHWA approval. (see Construction Manual - Chapter 1-00.10, Chapter SS1-04.4, and State Construction Office web page)

\*2 Per RCW 47.28.050, any change beyond \$7,500 that is beyond the original scope shall go through the competitive bidding process.

\*3 Engineering error changes over \$500,000 requires reporting (See reporting instructions & template on State Construction Office web page)

This form represents the minimum information required by the State Construction Office. If you wish to supplement this information, you may do so on a separate sheet of paper.

**NWR Change Order Checklist (Rev. July 2010)**

Cont. No. : 9160  
 C.O. No.: 22

Cont. Title: SR99, AWV-Replacement South Access - SR99 Connections  
 C.O. Title: SR99 Roadway Settlement Repair

<b>Clearances:</b>		
Funding 562,070.52	Name: <u>Mario Mathisen</u>	Date: <u>11/20/2018</u>
<b>Is Sales Tax Included?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Design/Technical Lead	Name: <u>Eric Schultz</u>	Date: <u>7/30/2018</u>
Maintenance	Name: _____	Date: _____
Agreements?	Name: _____	Date: _____
Local Agency Coordination?	Name: _____	Date: _____
Other? <u>AWV Prog. Admin.</u>	Name: <u>Brian Nielsen</u>	Date: <u>5/9/2018</u>

Checklist Prepared by (Project Field Office): Vinod Sangani Date: 11/20/2018

Change Order Reviewed by (Project Field Office): Dave Clarke Date: 11/20/2018

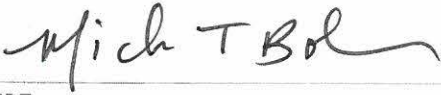
**WASHINGTON STATE  
DEPARTMENT OF TRANSPORTATION  
CHANGE ORDER**

DATE: 11/15/18  
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CONTRACT NO: 009160 FEDERAL AID NO:  
CONTRACT TITLE: SR 99, ALASKAN WAY VIADUCT - REPLACEMENT SOUTH ACC  
CHANGE ORDER NO: 22 SR99 ROADWAY SETTLEMENT REPAIR

PRIME CONTRACTOR: [REDACTED] SCARSELLA BROS., INC.  
P O BOX 68697  
SEATTLE WA 98168-0697

- Ordered by Engineer under the terms of Section 1-04.4 of the Standard Specifications  
 Change proposed by Contractor

ENDORSED BY:  CONTRACTOR 11/15/18 DATE	SURETY CONSENT:  ATTORNEY IN FACT  DATE
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ORIGINAL CONTRACT AMOUNT: 22,583,904.00  
 CURRENT CONTRACT AMOUNT: 23,191,012.88  
 ESTIMATED NET CHANGE THIS ORDER: 562,070.52  
 ESTIMATED CONTRACT TOTAL AFTER CHANGE: 23,753,083.40  
 Approval Required:  Region  Olympia Service Center  Local Agency

<input checked="" type="checkbox"/> APPROVAL RECOMMENDED  PROJECT ENGINEER 11/21/18 DATE	<input type="checkbox"/> EXECUTED  STATE CONSTRUCTION ENGINEER 11/27/18 DATE
<input checked="" type="checkbox"/> APPROVAL RECOMMENDED REGIONAL ADMIN:  BY: 11/26/18 DATE	<input type="checkbox"/> EXECUTED OTHER APPROVAL WHEN REQUIRED  SIGNATURE REPRESENTING DATE vccs vccps kkk 11/27/18

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CONTRACT NO: 009160

CHANGE ORDER NO: 22

All work, materials, and measurements to be in accordance with the provisions of the Standard Specifications and Special Provisions for the type of construction involved.

This contract is revised as follows:

**DESCRIPTION OF WORK**

This change order revises the roadway profiles by overlaying the existing pavement to address settlement of Northbound and Southbound SR99 mainline and modifies the existing barrier as follows:

- (1) Adds planing Bituminous Pavement from S-SB 156+80 to S-SB 157+73 and S-NB 156+50 to S-NB 157+39.
- (2) Adds HMA Overlay from S-SB 156+80 to S-SB 158+56.56 and S-NB 156+50 to S-NB 158+32.58.
- (3) Performs rotary milling the existing concrete slab from S-SB 158+56.56 to S-SB 158+76 and S-NB 158+32.58 to S-NB 158+49.
- (4) Adds a concrete overlay to the existing concrete slab from S-SB 158+76 to S-SB 158+81.56 and S-NB 158+49 to S-NB 158+57.58 including installation of the steel reinforcement.
- (5) Modifies the barrier at the following locations:
  - S-SB 157+36.59 (39.36' LT) to S-SB 158+81.56 (34.72' LT)
  - S-SB 157+36.43 (27.29' RT) to S-SB 158+81.56 (21.01' RT)
  - S-NB 157+13.39 (16.95' LT) to S-NB 158+57.58 (16.51' LT)
  - S-NB 157+12.55 (35.83' RT) to S-NB 158+57.58 (34.86' RT)
- (6) Implements the traffic control as shown in the plans. Adds temporary barrier and temporary striping to shift traffic in order to maintain access.

New plan sheets included in this change order are SPL1, RS019, RS020, PF024, BPF1, COD1, and BMD1. Traffic control plan sheets TC118, TC119, TC120, TC121, TC122, TC123, TC124 and TC125.

**MATERIALS**

Section 6-02.2 of the 2016 Standard Specifications is supplemented with the following: "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 and approved by the Engineer."

**CONSTRUCTION REQUIREMENTS**

The Class 4000D concrete shall conform to Section 6-02.3(2)A1 of the 2016 Standard Specifications.

Section 6-02.3(24)C is supplemented with the following:

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 holes provided the method selected does not damage the concrete and the steel reinforcing bar that is to remain. Core drilling will

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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 approval 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 at no cost to the Contracting Agency and the repair shall be as approved by the Engineer.

**MEASUREMENT**

Measurement of the new lump sum item, "CO022, SR 99 Settlement Repair" shall be in accordance with 2016 Standard Specification 1-09.1, Measurement of Quantities of Lump Sum Items.

**PAYMENT**

This change order revises quantity for the following items from this contract in accordance with Section 1-04.6:

- 1) Bid Item 96, "HMA CL. IN. PG 64-22", increased by 566 Tons, totaling \$56,600.
- 2) Bid Item 161, "Temporary Barrier", increased by 1,992 LF, totaling \$64,740.
- 3) Bid Item 187, "Temporary Pavement Marking-Long Duration", increased by 11,000 LF, totaling \$5,500.

This change order creates a new lump sum item, "CO022, SR 99 Settlement Repair", in the amount of \$435,230.52. This item will provide full payment for all labor, equipment, and materials required for the work as shown in the Plans. This amount will also be full payment for additional survey, signing, all preparation work, sawcutting, joint preparation for vertical face, cement concrete pavement rotomilling, planing bituminous pavement, disposal costs, HMA overly, all additional mobilizations, concrete overlay at approach slabs, barrier modifications, temporary HMA maintain access, premium time, additional supervision, risk for concrete temperature and subcontractor performance, small tools including all incidentals required to complete the work shown in the Plans.

**CONTRACT TIME**

No working days are added to the Contract time as a result of this change order. No changes to Contract interim milestones are made as a result of this change order.

**WASHINGTON STATE  
DEPARTMENT OF TRANSPORTATION  
CHANGE ORDER**

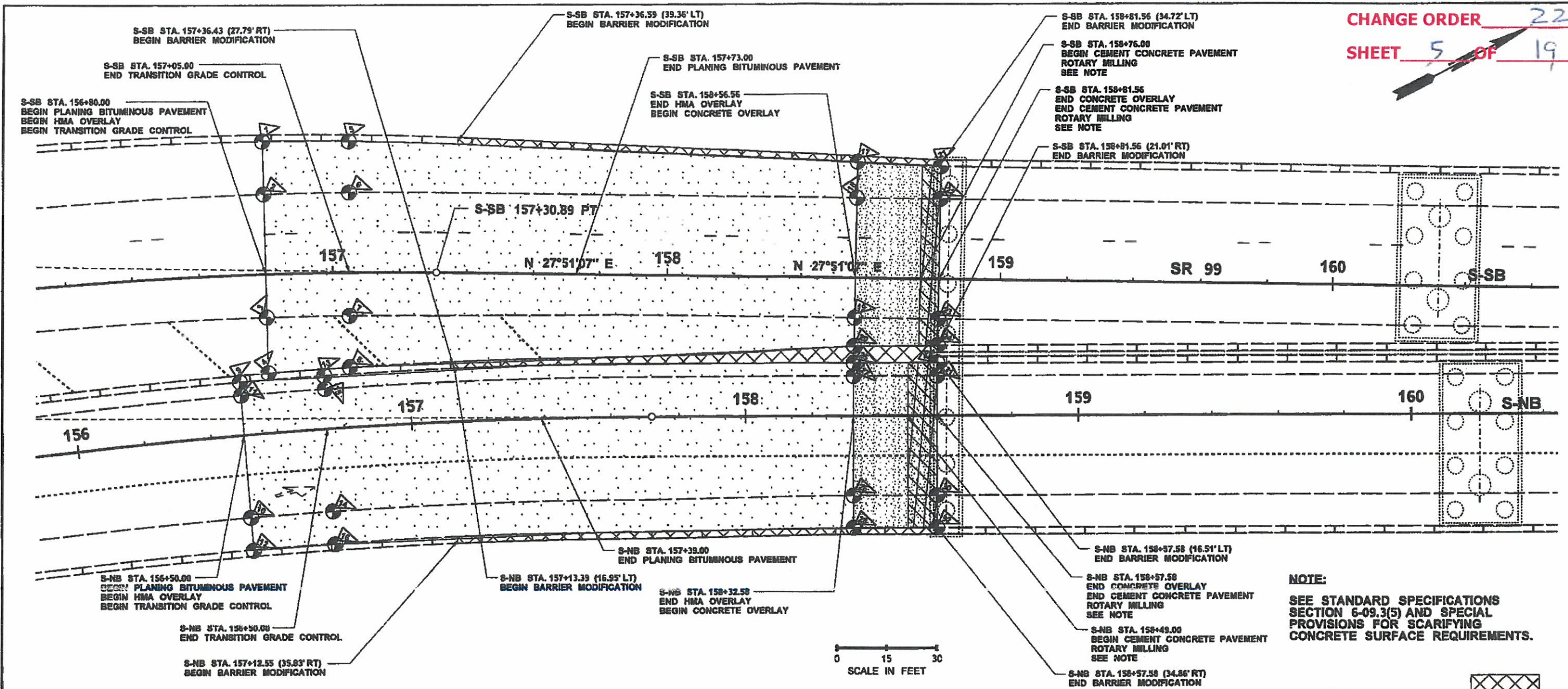
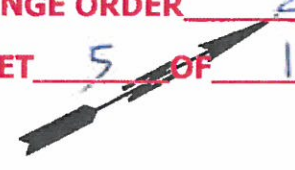
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<b>CONTRACT NO: 009160</b>				<b>CHANGE ORDER NO: 22</b>			
ITEM NO	GROUP NO	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	UNIT PRICE	EST QTY CHANGE	EST AMT CHANGE

✓ 0096	01	5767	HMA CL. 1/2 IN. PG 64-22	TON	100.00	566.00	56,600.00
✓ 0161	01	6781	TEMPORARY BARRIER	L.F.	32.50	1,992.00	64,740.00
✓ 0187	01	6896	TEMPORARY PAVEMENT MARKING-LONG DURATION	L.F.	0.50	11,000.00	5,500.00
320 1035	01		CO022, SR 99 SETTLEMENT REPAIR	L.S.	0.00	0.00	435,230.52

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562,070.52  
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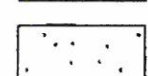
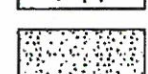







**NOTE:**  
SEE STANDARD SPECIFICATIONS SECTION 6-09.3(5) AND SPECIAL PROVISIONS FOR SCARIFYING CONCRETE SURFACE REQUIREMENTS.

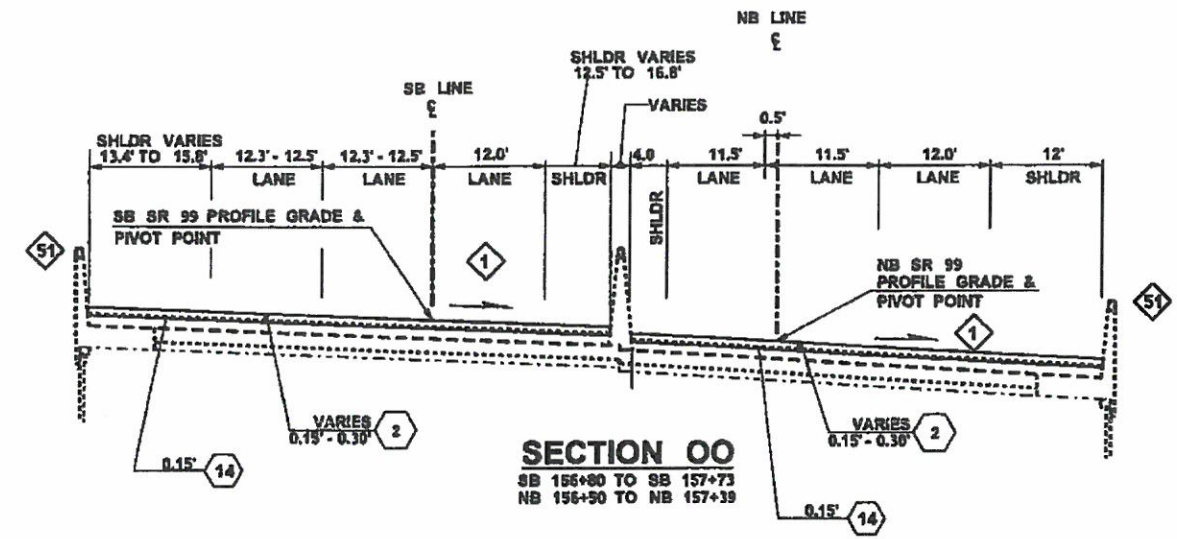
GRADE CONTROL FOR HMA OVERLAY TRANSITION				
LOCATION	SB STATION AND OFFSET	ELEVATION	NB STATION AND OFFSET	ELEVATION
LEFT BARRIER	S-SB STA 156+80.00 (40.00' LT.)	33.31'	S-NB STA 156+50.00 (16.00' LT.)	29.56'
WHITE EDGE LINE	S-SB STA 156+80.00 (24.00' LT.)	32.74'	S-NB STA 156+50.00 (25.00' RT.)	27.06'
YELLOW EDGE LINE	S-SB STA 156+80.00 (13.00' RT.)	30.70'	S-NB STA 156+50.00 (12.00' LT.)	29.34'
RIGHT BARRIER	S-SB STA 156+80.00 (29.75' RT.)	29.77'	S-NB STA 156+50.00 (35.00' RT.)	25.60'
LEFT BARRIER	S-SB STA 157+05.00 (39.53' LT.)	34.37'	S-NB STA 156+75.00 (16.00' LT.)	30.69'
WHITE EDGE LINE	S-SB STA 157+05.00 (24.00' LT.)	33.59'	S-NB STA 156+75.00 (12.00' LT.)	30.45'
YELLOW EDGE LINE	S-SB STA 157+05.00 (13.00' RT.)	31.71'	S-NB STA 156+75.00 (25.00' RT.)	28.28'
RIGHT BARRIER	S-SB STA 157+05.00 (28.52' RT.)	30.92'	S-NB STA 156+75.00 (35.00' RT.)	27.71'

GRADE CONTROL FOR CONCRETE OVERLAY				
LOCATION	SB STATION AND OFFSET	ELEVATION	NB STATION AND OFFSET	ELEVATION
LEFT BARRIER	S-SB STA 158+36.56 (34.84' LT.)	40.13'	S-NB STA 158+32.58 (16.00' LT.)	39.12'
WHITE EDGE LINE	S-SB STA 158+56.56 (24.00' LT.)	39.92'	S-NB STA 158+32.58 (24.00' RT.)	38.12'
YELLOW EDGE LINE	S-SB STA 158+56.56 (12.00' RT.)	39.28'	S-NB STA 158+32.58 (12.00' LT.)	39.02'
RIGHT BARRIER	S-SB STA 158+56.56 (20.49' RT.)	39.03'	S-NB STA 158+32.58 (34.00' RT.)	37.88'
LEFT BARRIER	S-SB STA 158+81.56 (34.00' LT.)	41.10'	S-NB STA 158+57.58 (16.00' LT.)	40.43'
WHITE EDGE LINE	S-SB STA 158+81.56 (24.00' LT.)	40.96'	S-NB STA 158+57.58 (12.00' LT.)	40.35'
YELLOW EDGE LINE	S-SB STA 158+81.56 (12.00' RT.)	40.47'	S-NB STA 158+57.58 (24.00' RT.)	39.57'
RIGHT BARRIER	S-SB STA 158+81.56 (20.08' RT.)	40.39'	S-NB STA 158+57.58 (34.00' RT.)	39.40'

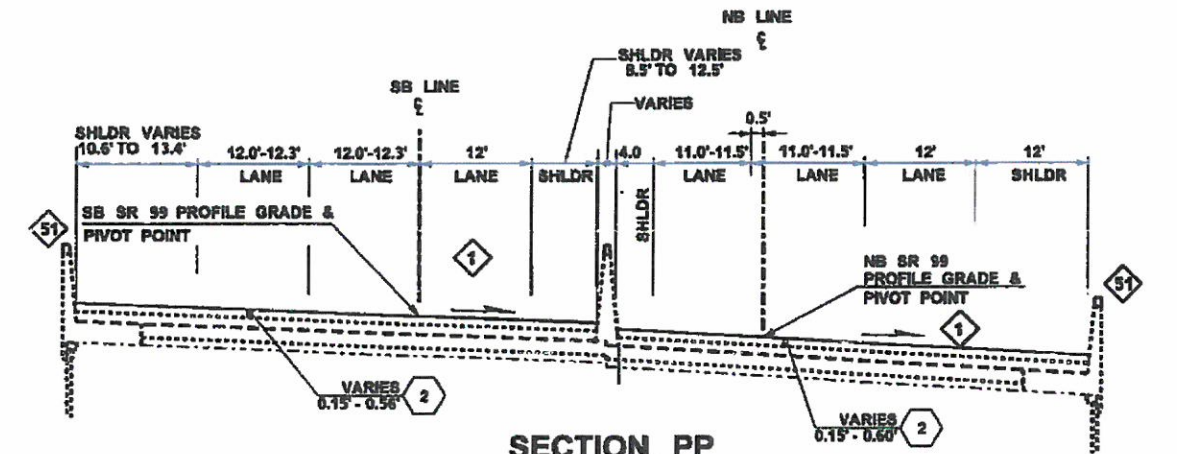
BARRIER MODIFICATION   
 PLANING BITUMINOUS PAVEMENT   
 HMA OVERLAY   
 CONCRETE PAVEMENT OVERLAY   
 SCARIFYING CONCRETE SURFACE 

City of Seattle Vault Plan #235-11  
City of Seattle Vault Serial #35912

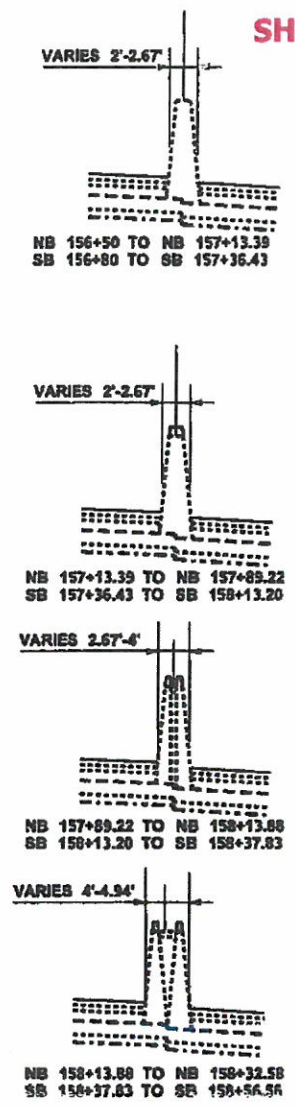
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TIME	12:50:46 PM			10	WASH	LOCATION NO.				PLAN REF NO
DATE	8/1/2018			JOB NUMBER					SHEET	
PLOTTED BY	wllknd			CONTRACT NO.					OF	
DESIGNED BY	J. TURCK								SHEETS	
ENTERED BY	J. TURCK									
CHECKED BY	D. WILKINSON									
PROJ. ENGR.	J. FARRIS									
REGIONAL ADM.	B. NIELSEN			REVISION	DATE	BY				



**SECTION OO**  
SB 156+80 TO SB 157+73  
NB 156+90 TO NB 157+39



**SECTION PP**  
SB 157+73 TO SB 158+56.56  
NB 157+39 TO NB 158+32.58



**MEDIAN BARRIER DETAIL**

**LEGEND**

- ② HMA CL. 1/IN. PG 64-22
- ⑭ PLANING BITUMINOUS PAVEMENT
- ⑳ CONC. CLASS 4000D FOR CONCRETE SLAB OVERLAY
- ⑳ SCARIFYING CONCRETE SURFACE

**GENERAL NOTES**

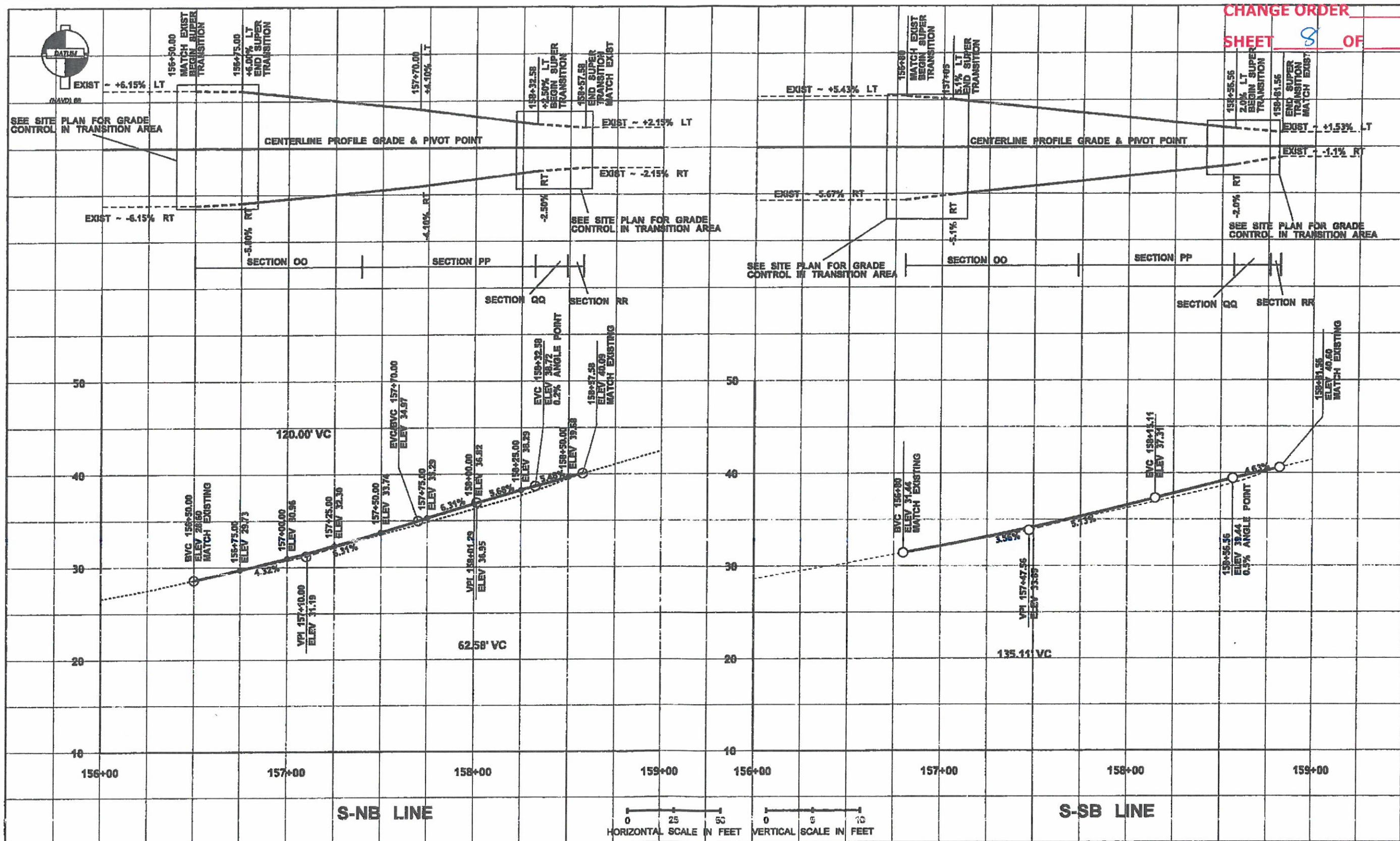
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
- COS = CITY OF SEATTLE STANDARD.

**NOTES:**

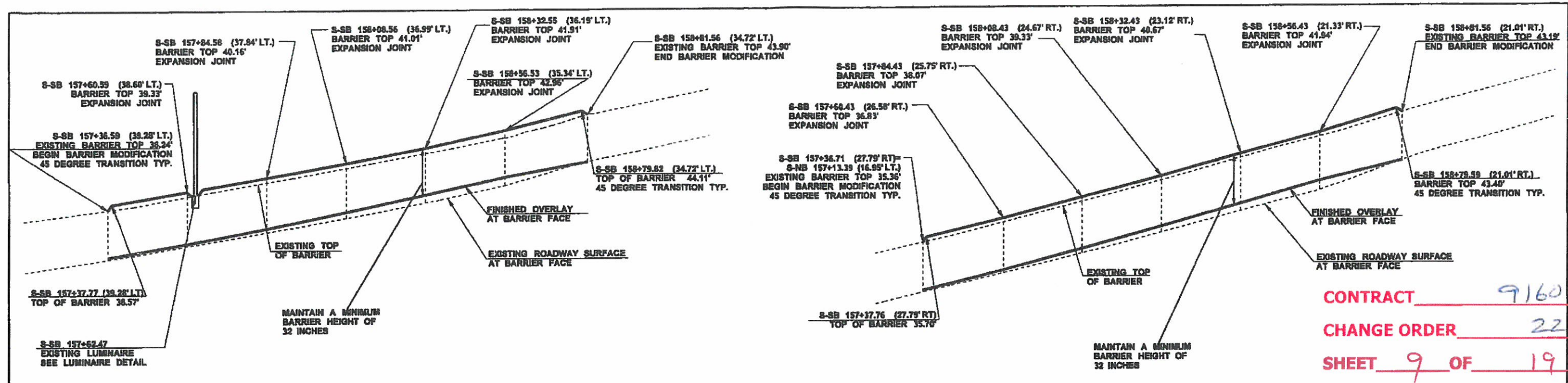
- ① SEE PROFILE SHEETS FOR SUPERELEVATION DIAGRAM.
- ⑤① SEE BARRIER MODIFICATION DETAIL AND PROFILE SHEETS FOR BARRIER MODIFICATION.
- ⑤② SEE STANDARD SPECIFICATIONS SECTION 6-02 AND SPECIAL PROVISIONS FOR CONC. CLASS 4000D REQUIREMENTS.
- ⑤③ SEE STANDARD SPECIFICATIONS SECTION 6-09.3(5) AND SPECIAL PROVISIONS FOR SCARIFYING CONCRETE SURFACE REQUIREMENTS.

FILE NAME: c:\azwork\pwork\awr\wilk\ind\ms14910\South Approach Details.DGN		REGION NO.:	STATE:	FED.AID PROJ.NO.:			SR 99 ALASKAN WAY VIADUCT - REPLACEMENT SOUTH ACCESS - SR 99 CONNECTIONS ROADWAY SECTIONS	Plot 1
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ENTERED BY: J. HU	CHECKED BY: D. WILKINSON		C9160					OF
PROJ. ENGR. J. FARRIS	REGIONAL ADM. B. NIELSEN	REVISION:	DATE:	BY:				SHEETS





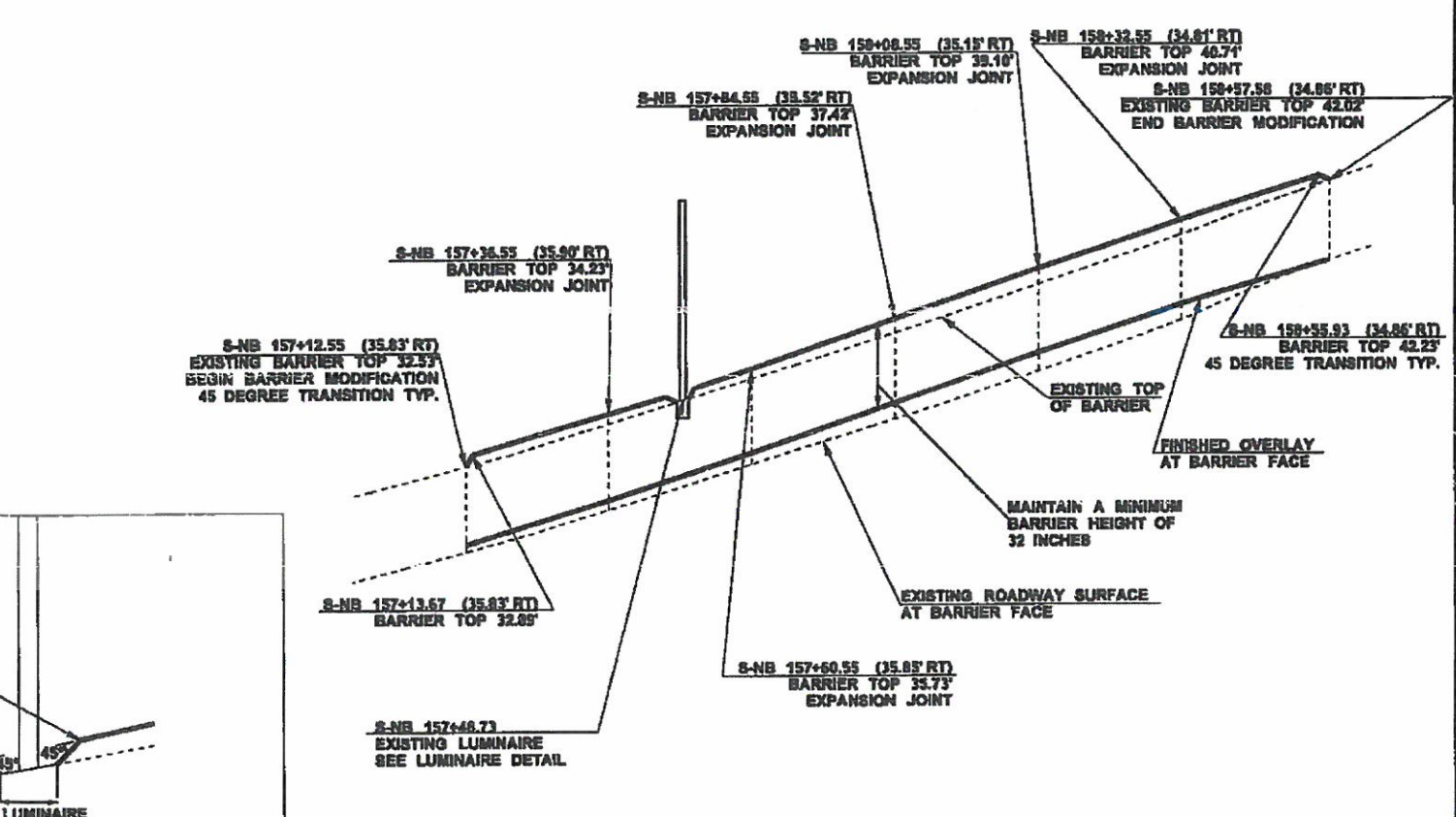
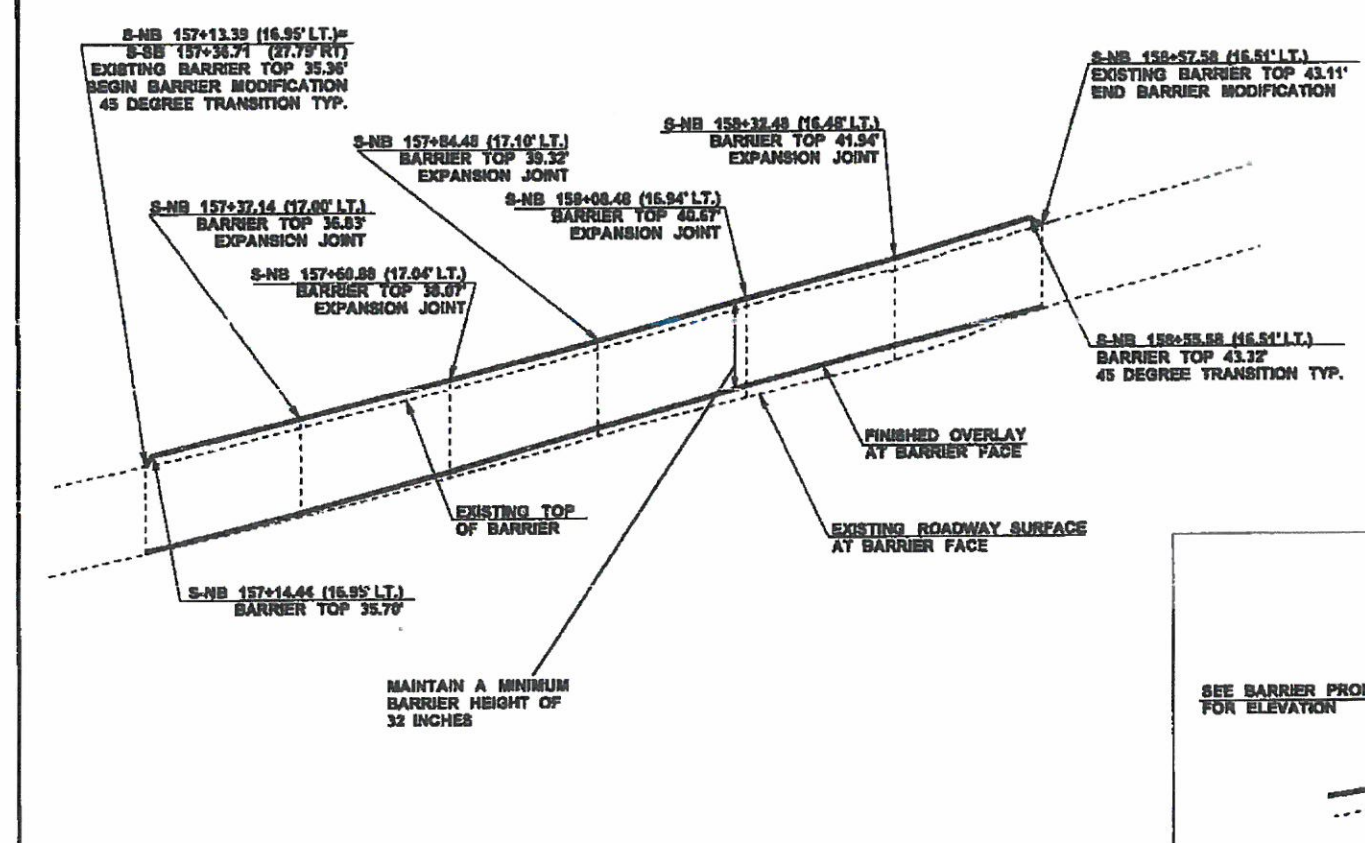
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PLOTTED BY: hu	DESIGNED BY: J. HU/D. WILKINSON	JOB NUMBER:	17A805		CONTRACT NO.:	C9160		SHEET	
ENTERED BY: J. HU	CHECKED BY: D. WILKINSON	PROJ. ENGR.:	J. FARRIS		LOCATION NO.:			OF	
REGIONAL ADM.:	B. NIELSEN	REVISION	DATE	BY				SHEETS	



CONTRACT 9160  
 CHANGE ORDER 22  
 SHEET 9 OF 19

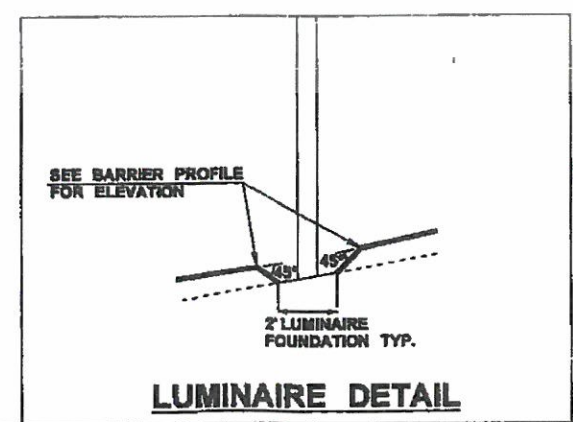
**SB WEST BARRIER MODIFICATION PROFILE**

**SB EAST BARRIER MODIFICATION PROFILE**



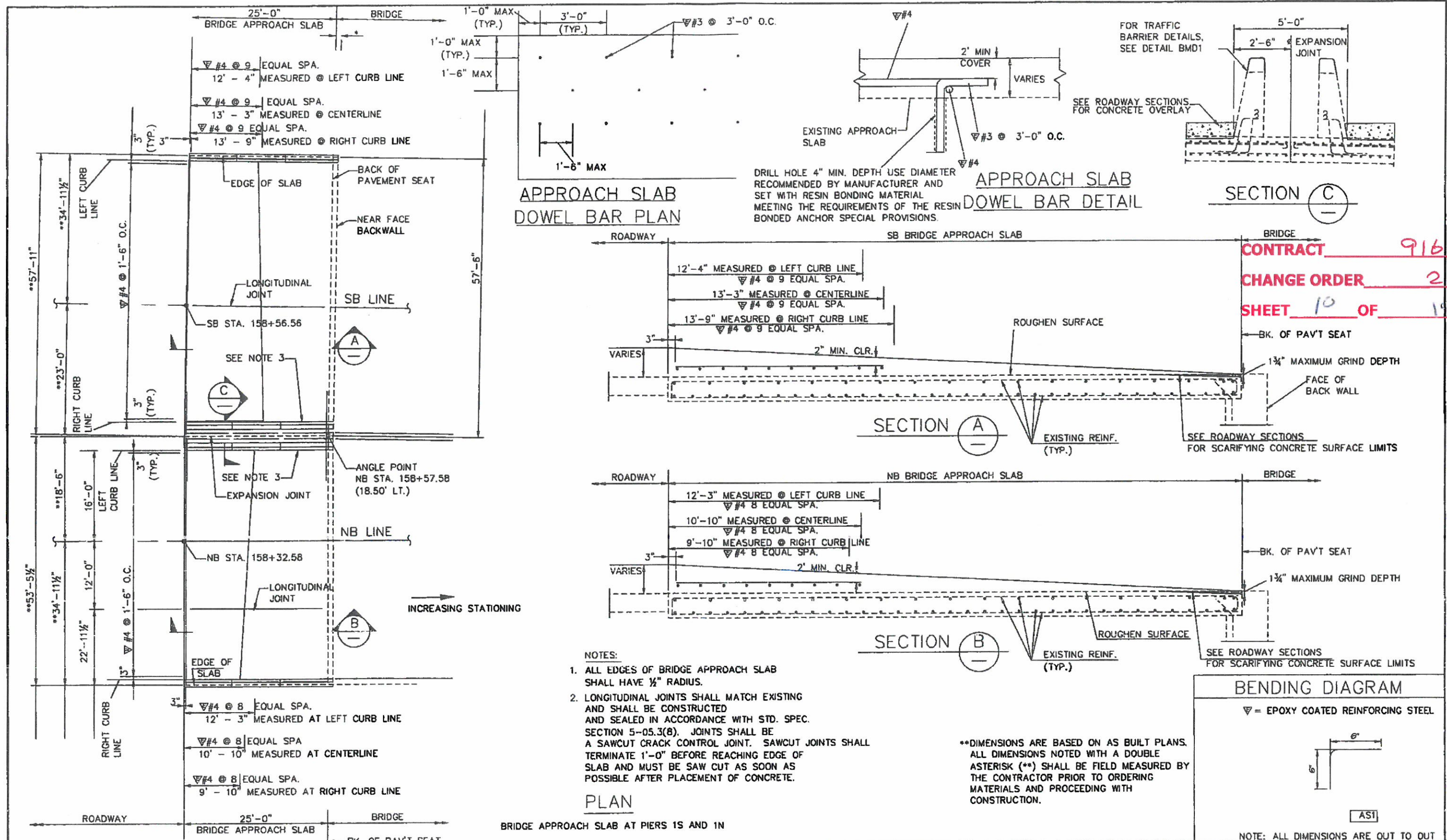
**NB WEST BARRIER MODIFICATION PROFILE**

**NB EAST BARRIER MODIFICATION PROFILE**



**LUMINAIRE DETAIL**

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TIME: 11:20:14 AM	DATE: 7/30/2018	10	WASH						PLAN REF NO BPF1
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ENTERED BY: J. HU	CHECKED BY: D. WILKINSON	CONTRACT NO. C9160		DATE					OF
PROJ. ENGR: J. FARRIS	REGIONAL ADM: B. NIELSEN	REVISION	DATE	BY					SHEETS

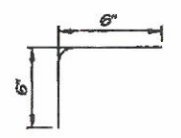


CONTRACT 9160  
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- NOTES:
1. ALL EDGES OF BRIDGE APPROACH SLAB SHALL HAVE 1/4" RADIUS.
  2. LONGITUDINAL JOINTS SHALL MATCH EXISTING AND SHALL BE CONSTRUCTED AND SEALED IN ACCORDANCE WITH STD. SPEC. SECTION 5-05.3(B). JOINTS SHALL BE A SAWCUT CRACK CONTROL JOINT. SAWCUT JOINTS SHALL TERMINATE 1'-0" BEFORE REACHING EDGE OF SLAB AND MUST BE SAW CUT AS SOON AS POSSIBLE AFTER PLACEMENT OF CONCRETE.

\*\*DIMENSIONS ARE BASED ON AS BUILT PLANS. ALL DIMENSIONS NOTED WITH A DOUBLE ASTERISK (\*\*) SHALL BE FIELD MEASURED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.

BENDING DIAGRAM  
 ▽ = EPOXY COATED REINFORCING STEEL

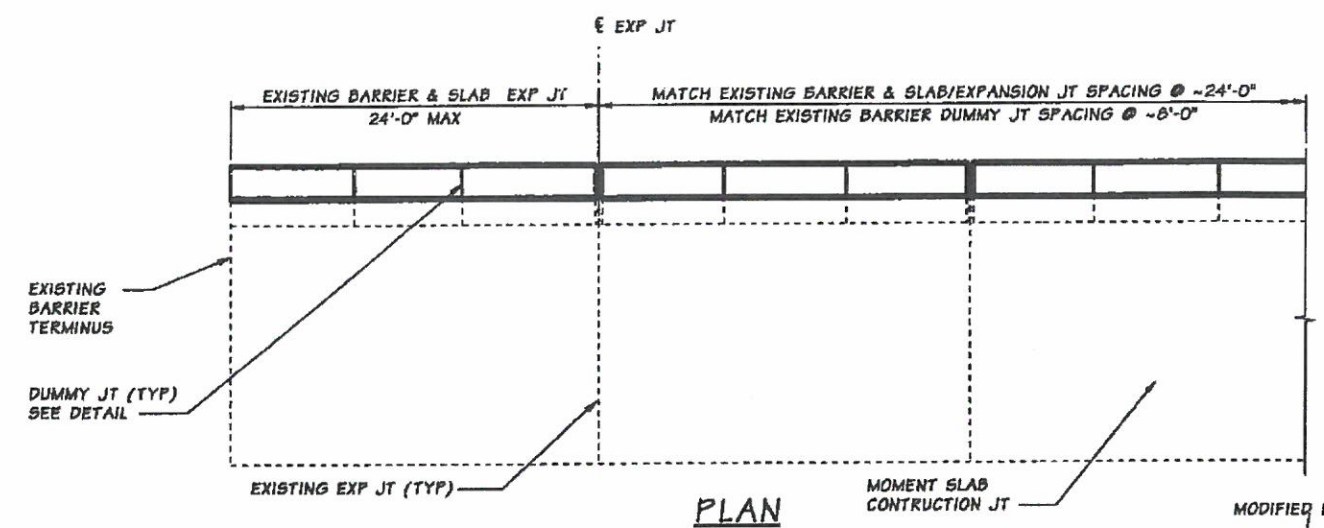


NOTE: ALL DIMENSIONS ARE OUT TO OUT

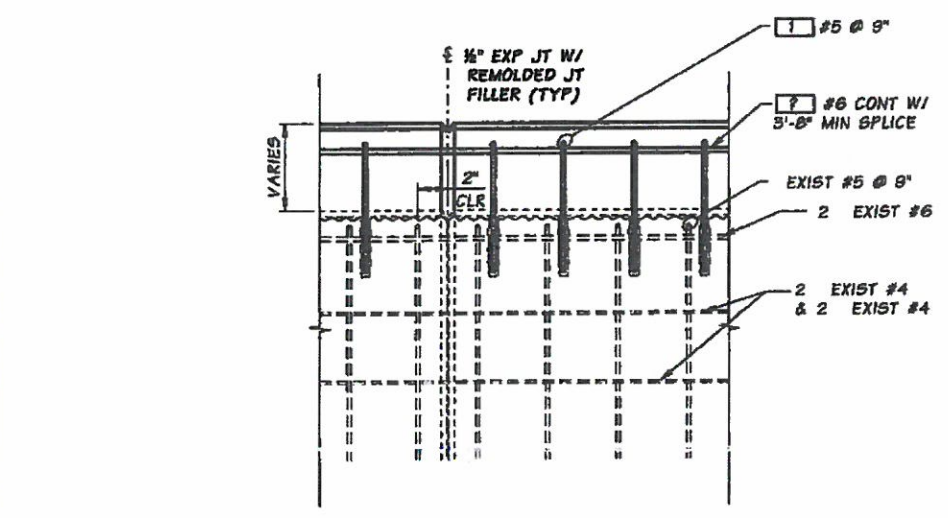
FILE NAME	c:\aswork\pwwork\aww\wllknd\ids14910\South Approach Details.DGN	REGION NO.	STATE	FED.AID PROJ.NO.			SR 99	ALASKAN WAY VIADUCT - REPLACEMENT	Plot 5
TIME	12:28:41 PM	10	WASH						
DATE	8/1/2018	JOB NUMBER							COD1
PLOTTED BY	wllknd	CONTRACT NO.							
DESIGNED BY	E. SCHULTZ	LOCATION NO.							
ENTERED BY	J. HU								
CHECKED BY	E. SCHULTZ								
PROJ. ENGR.	T. MOORE								
REGIONAL ADRI.	B. NIELSEN								
REVISION		DATE	BY	C9160					

**NOTES:**  
 - ALL CONCRETE SHALL BE CLASS 4000.  
 - THE BARRIER GEOMETRY REFERENCE LINE (B.G.R.L.) IS PERPENDICULAR TO THE TRANSVERSE ROADWAY SLOPE (T.R.S.).  
 - APPLY DUMMY JOINT TO TOP AND FACE OF BARRIER MODIFICATION.

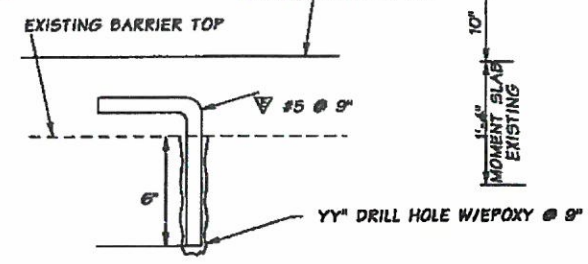
CONTRACT 9160  
 CHANGE ORDER 22  
 SHEET 11 OF 19



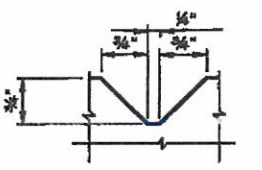
**PLAN**



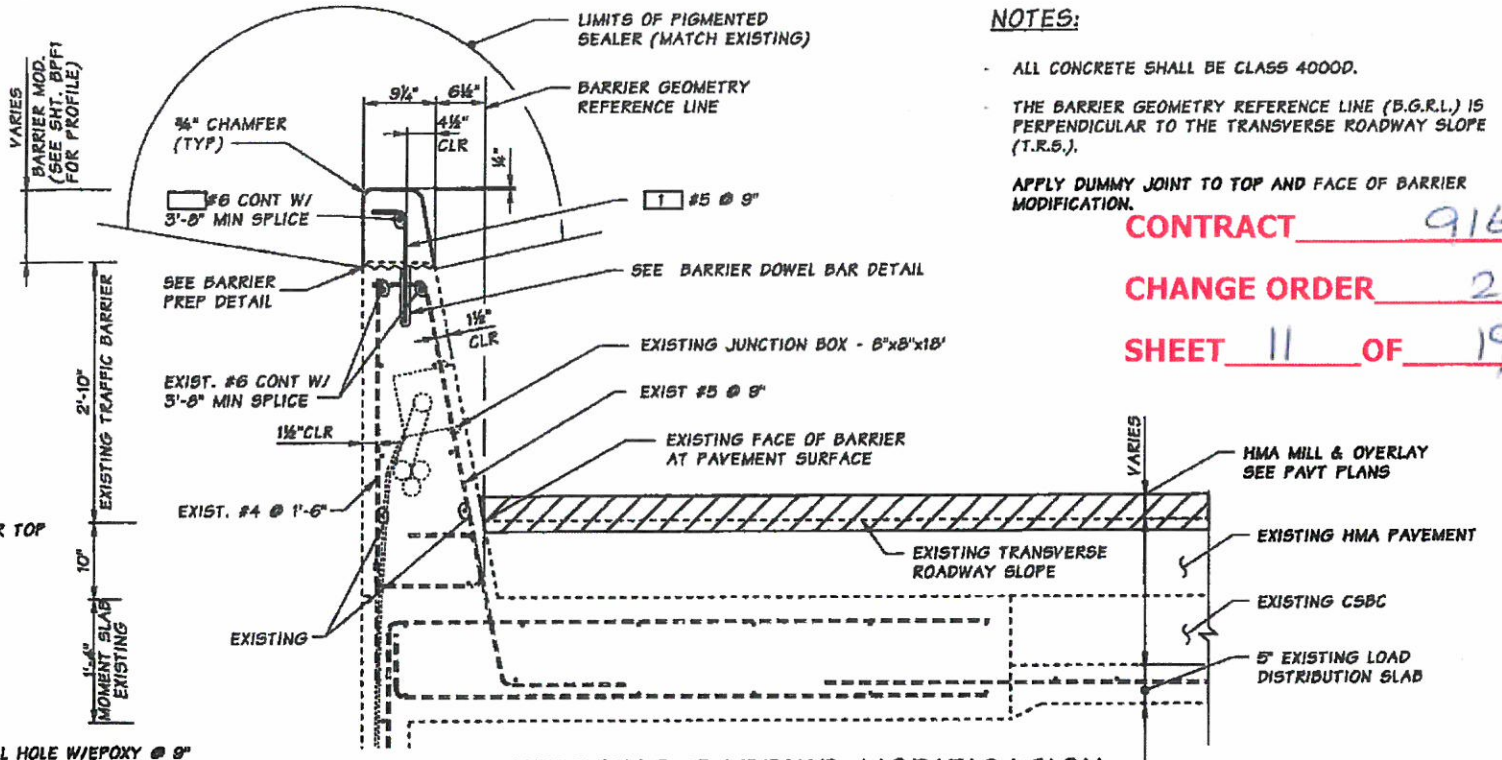
**ELEVATION**



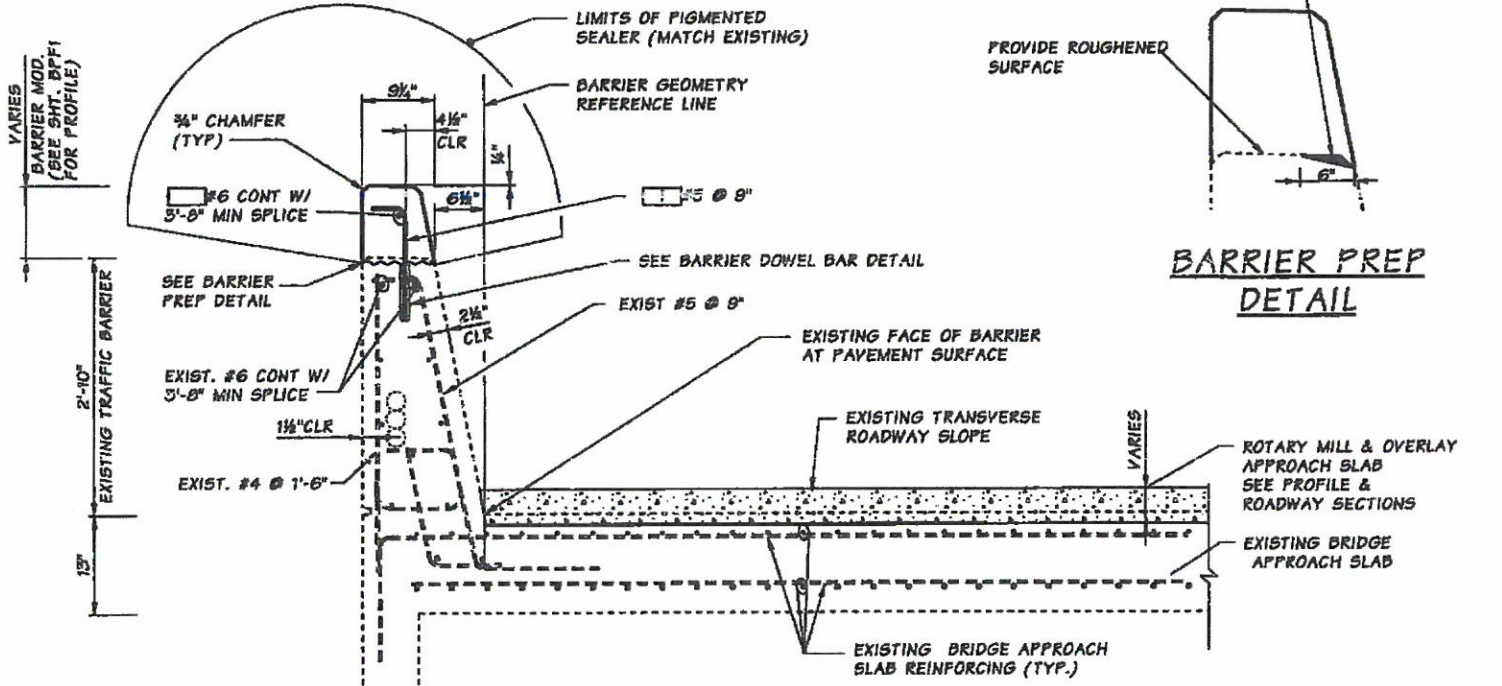
**BARRIER DOWEL BAR DETAIL**



**DUMMY JOINT DETAIL**



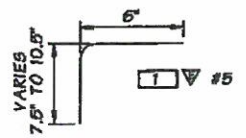
**EXISTING BARRIER MODIFICATION WITH HMA PAVEMENT**



**EXISTING BARRIER MODIFICATION WITH BRIDGE APPROACH SLAB OVERLAY**

**REINFORCING STEEL BENDING LIST**

BENDING DIAGRAM (ALL DIMENSIONS ARE OUT TO OUT)      ▼ DENOTES EPOXY COATED

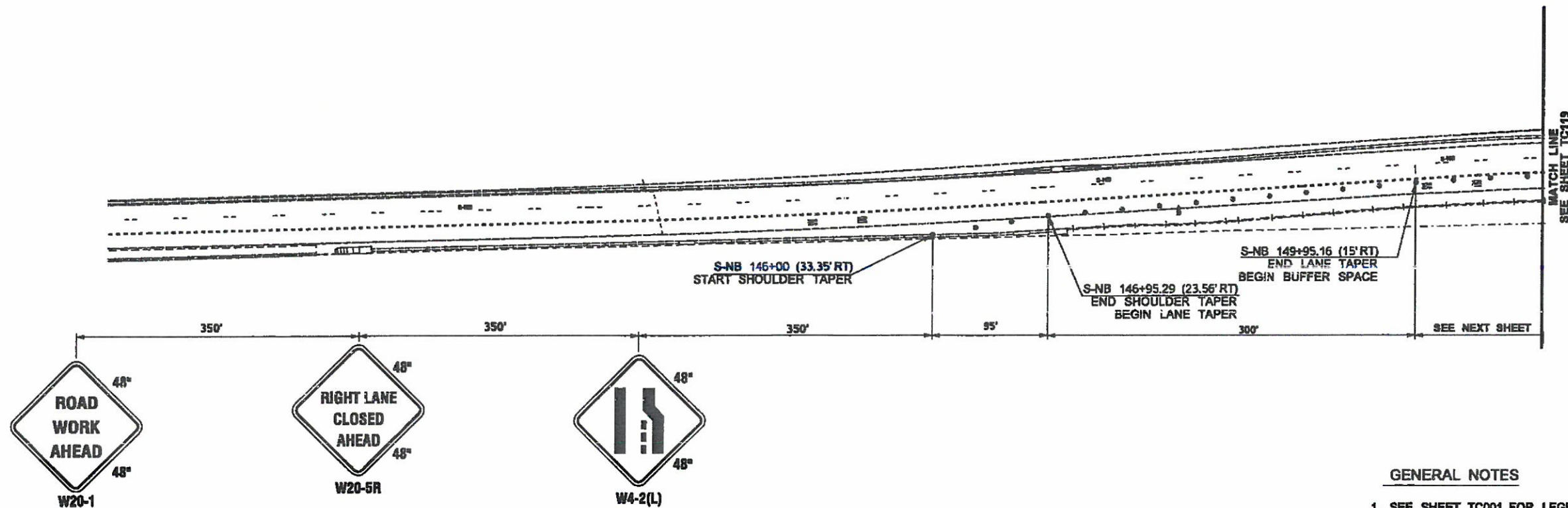


FILE NAME	c:\swwork\pwwork\aw\huj\dms14910\South Approach Details.DGN			REGION NO.	STATE	FED.AID PROJ.NO.
TIME	4:22:00 PM			10	WASH	
DATE	7/26/2018			JOB NUMBER		
PLOTTED BY	huj			CONTRACT NO.		LOCATION NO.
DESIGNED BY	E. SCHULTZ			C9160		
ENTERED BY	J. HU					
CHECKED BY	E. SCHULTZ					
PROJ. ENGR.	T. MOORE					
REGIONAL ADM.	B. NIELSEN			REVISION	DATE	BY

		SR 99	Plot 6
		ALASKAN WAY VIADUCT - REPLACEMENT	PLAN REF NO
		SOUTH ACCESS - SR 99 CONNECTIONS	BMD1
BARRIER MODIFICATION DETAILS		WEST	OF
		SHEETS	

NB SR99 PCMS	
PHASE 1	PHASE 2
BUS LANE CLOSED AHEAD	1 MILE AHEAD
2.0 SEC	2.0 SEC

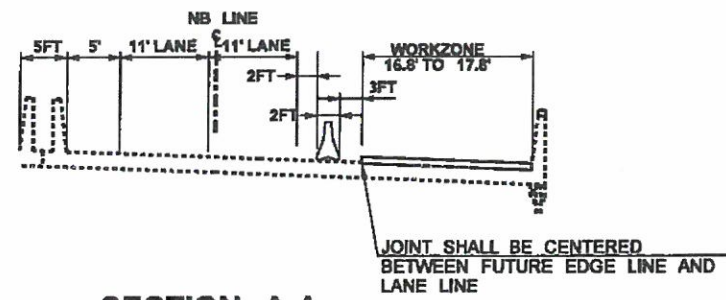
FIELD LOCATE 1 MILE (↔)  
IN ADVANCE OF LANE CLOSURE SIGNING



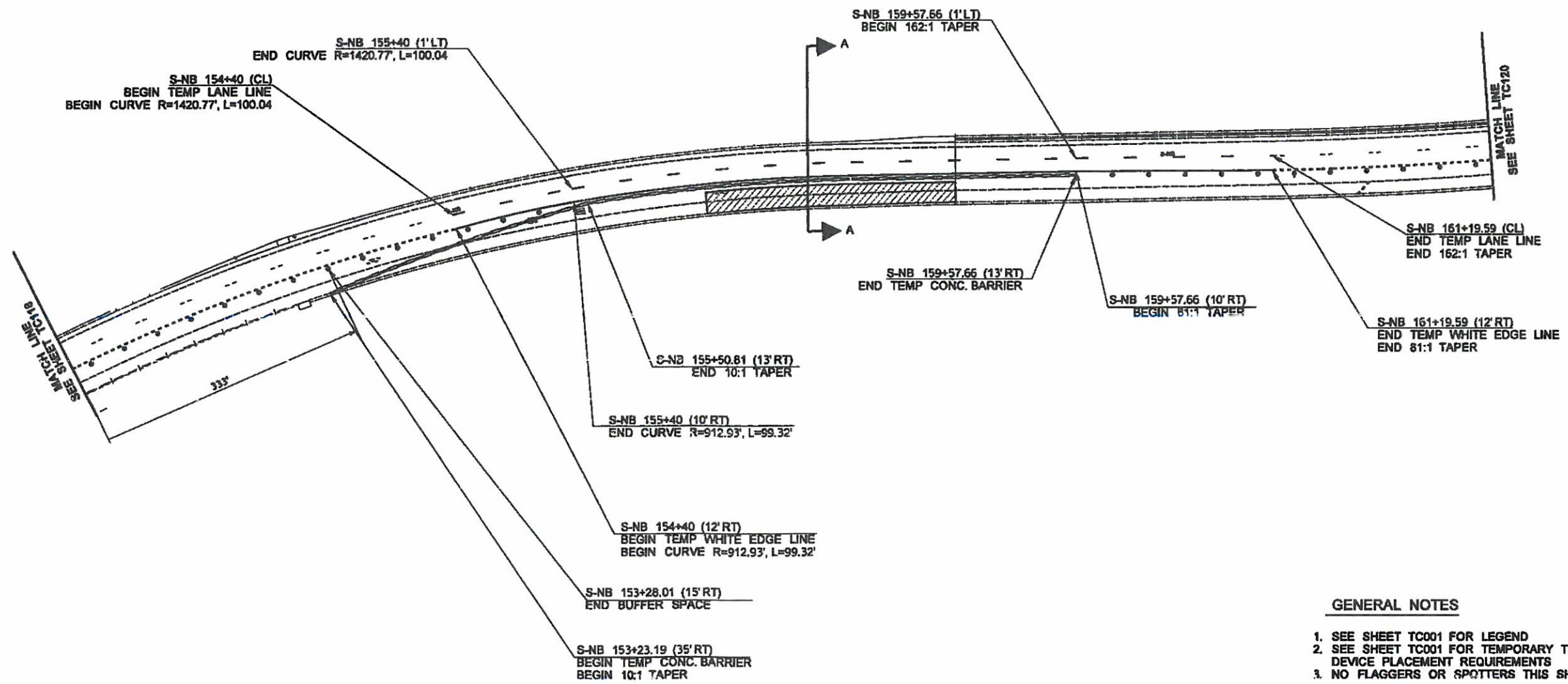
- GENERAL NOTES**
1. SEE SHEET TC001 FOR LEGEND
  2. SEE SHEET TC001 FOR TEMPORARY TRAFFIC CONTROL DEVICE PLACEMENT REQUIREMENTS
  3. NO FLAGGERS OR SPOTTERS THIS SHEET

FILE NAME	c:\aswork\p\work\awv\huj\dms14910\South Approach Staging.DGN			REGION NO.	STATE	FED.AID PROJ.NO.	<p>Washington State Department of Transportation</p>	<p>SR 99 ALASKAN WAY VIADUCT - REPLACEMENT SOUTH ACCESS - SR 99 CONNECTIONS</p> <p>TRAFFIC CONTROL PLAN</p>	Plot 8
TIME	1:51:10 PM			10	WASH				PLAN REF NO
DATE	10/17/2018			JOB NUMBER	17A805				TC118
PLOTTED BY	huj			CONTRACT NO.	C9160	LOCATION NO.			
DESIGNED BY	D. WILKINSON							SHEET	
ENTERED BY	J. HU							OF	
CHECKED BY	D. WILKINSON							SHEETS	
PROJ. ENGR.	J. FARRIS								
REGIONAL ADM.	B. NIELSEN			REVISION	DATE	BY			





SECTION A-A



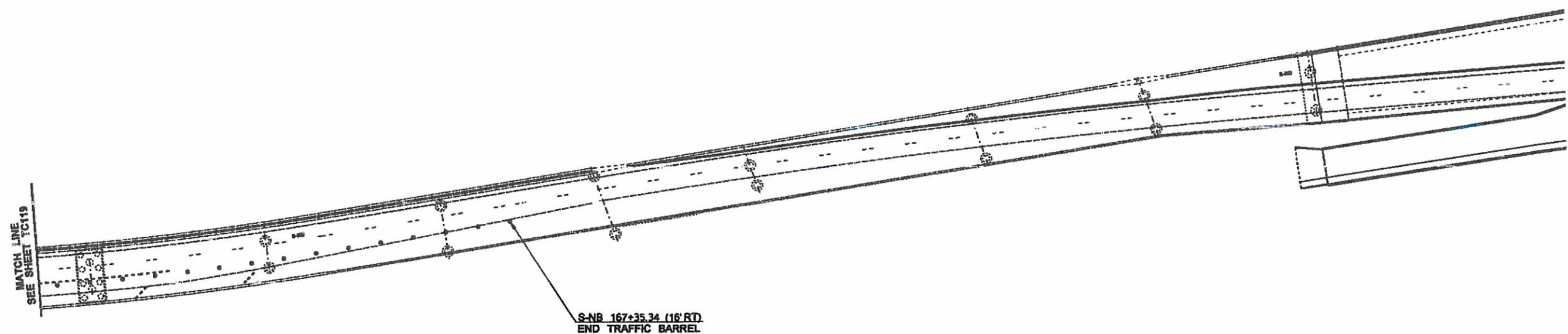
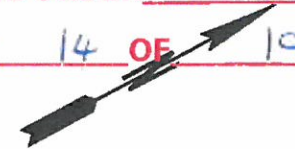
- GENERAL NOTES**
1. SEE SHEET TC001 FOR LEGEND
  2. SEE SHEET TC001 FOR TEMPORARY TRAFFIC CONTROL DEVICE PLACEMENT REQUIREMENTS
  3. NO FLAGGERS OR SPOTTERS THIS SHEET

FILE NAME	c:\aswork\pwwork\aw\huj\dms14910\South Approach Staging.DGN			REGION NO.	STATE	FED.AID PROJ.NO.	<p>Washington State Department of Transportation</p>	<p>SR 99 ALASKAN WAY VIADUCT - REPLACEMENT SOUTH ACCESS - SR 99 CONNECTIONS</p> <p>TRAFFIC CONTROL PLAN</p>	Plot 9
TIME	1:31:27 PM			10	WASH				PLAN REF NO TC119
DATE	10/17/2018			JOB NUMBER				SHEET	
PLOTTED BY	huj			CONTRACT NO.				OF	
DESIGNED BY	D. WILKINSON			LOCATION NO.				SHEETS	
ENTERED BY	J. HU								
CHECKED BY	D. WILKINSON								
PROJ. ENGR.	J. FARRIS								
REGIONAL ADM.	B. NIELSEN								
	REVISION	DATE	BY	C9160					

CONTRACT 9160

CHANGE ORDER 22

SHEET 14 OF 19



**GENERAL NOTES**

- 1. SEE SHEET TC001 FOR LEGEND
- 2. SEE SHEET TC001 FOR TEMPORARY TRAFFIC CONTROL DEVICE PLACEMENT REQUIREMENTS
- 3. NO FLAGGERS OR SPOTTERS THIS SHEET

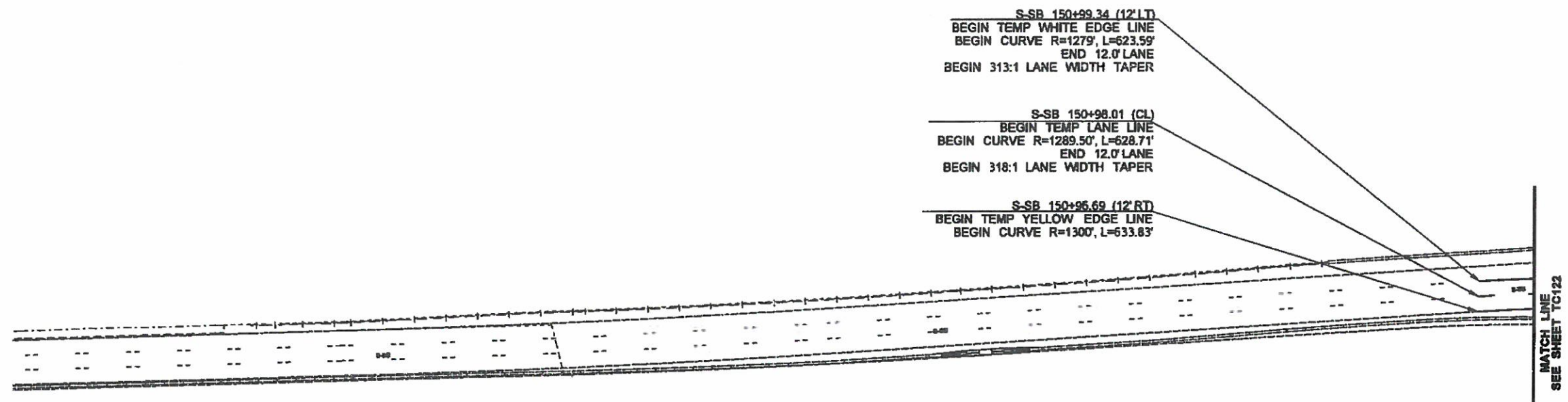
FILE NAME		c:\aswork\pwwork\awr\huj\dms14910\South Approach Staging.DGN		REGION NO.		STATE		FED.AID PROJ.NO.		Plot 10	
TIME		1:52:11 PM		10		WASH				PLAN REF NO	
DATE		10/17/2018		JOB NUMBER		17A805		LOCATION NO.		TC120	
PLOTTED BY		huj		CONTRACT NO.		C9160				SHEET	
DESIGNED BY		D. WILKINSON								OF	
ENTERED BY		J. HU								SHEETS	
CHECKED BY		D. WILKINSON									
PROJ. ENGR.		J. FARRIS		REVISION		DATE		BY			
REGIONAL ADM.		B. NIELSEN									



Washington State  
Department of Transportation

SR 99  
ALASKAN WAY VIADUCT - REPLACEMENT  
SOUTH ACCESS - SR 99 CONNECTIONS


TRAFFIC CONTROL PLAN

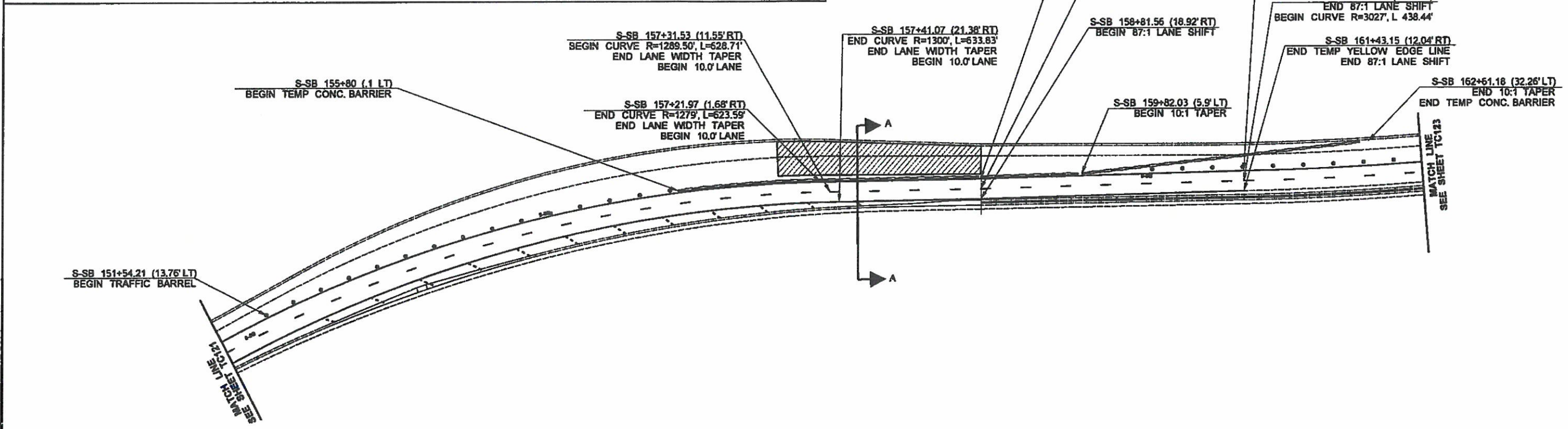
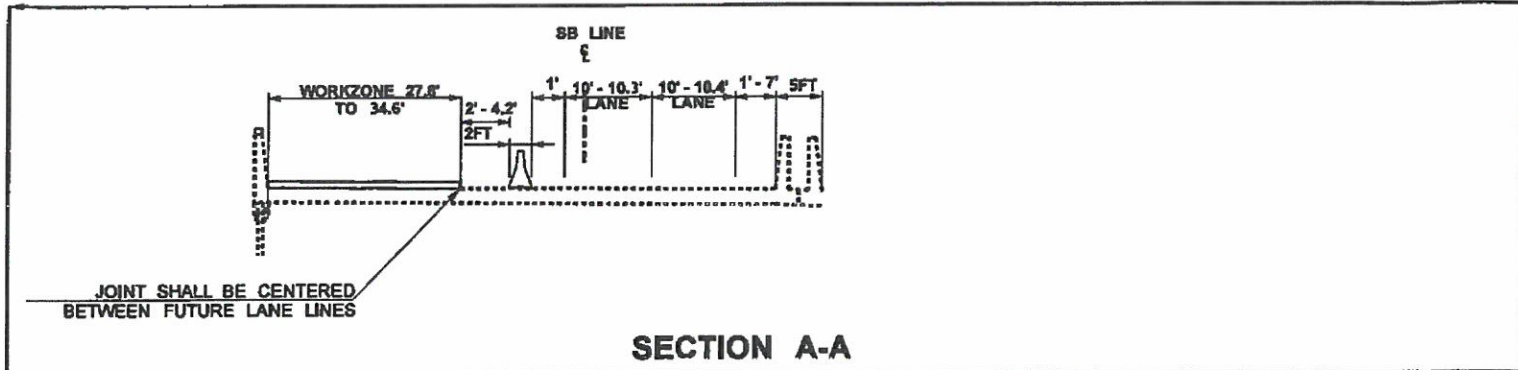


**GENERAL NOTES**

1. SEE SHEET TC001 FOR LEGEND
2. SEE SHEET TC001 FOR TEMPORARY TRAFFIC CONTROL DEVICE PLACEMENT REQUIREMENTS
3. NO FLAGGERS OR SPOTTERS THIS SHEET

**SOUTH APPROACH TRAFFIC CONTROL - ALTERNATIVE 2 STAGE 1**

FILE NAME c:\work\pwworkdawn\hufj\ms14910\South Approach Staging.DGN		REGION NO. STATE		FED.AID PROJ.NO.		 Washington State Department of Transportation		SR 99		Plot 11	
TIME 1:37:39 PM	DATE 9/26/2018	10	WASH					ALASKAN WAY VIADUCT - REPLACEMENT		PLAN REF NO TC121	
PLOTTED BY huj	DESIGNED BY D. WILKINSON	JOB NUMBER 17A805		LOCATION NO.		TRAFFIC CONTROL PLAN		SOUTH ACCESS - SR 99 CONNECTIONS		SHEET	
ENTERED BY J. HU	CHECKED BY D. WILKINSON	CONTRACT NO. C9160						OF		SHEETS	
PROJ. ENGR. J. FARRIS	REGIONAL ADM. B. NIELSEN	REVISION	DATE	BY							

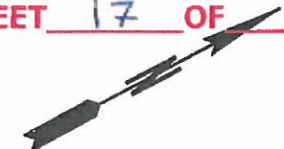


- GENERAL NOTES
1. SEE SHEET TC001 FOR LEGEND
  2. SEE SHEET TC001 FOR TEMPORARY TRAFFIC CONTROL DEVICE PLACEMENT REQUIREMENTS
  3. NO FLAGGERS OR SPOTTERS THIS SHEET

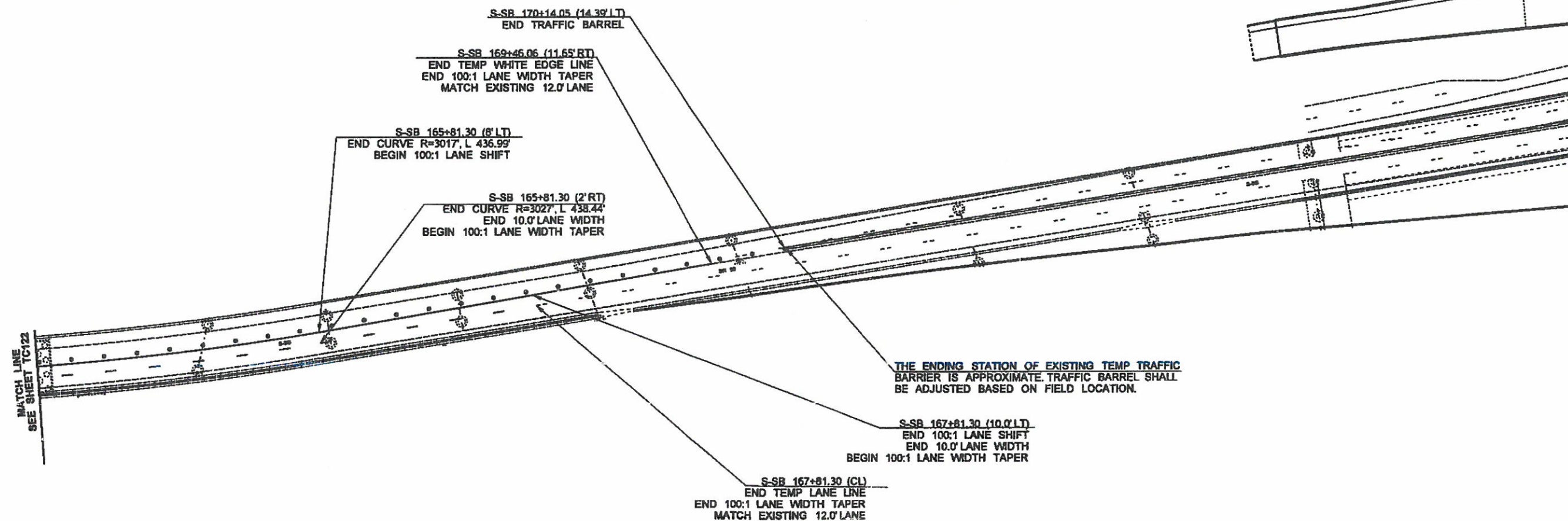
**SOUTH APPROACH TRAFFIC CONTROL - ALTERNATIVE 2 STAGE 1**

FILE NAME	c:\aswork\pwork\awv\huj\dms14910\South Approach Staging.DGN			REGION NO.	STATE	FED.AID PROJ.NO.	<p>Washington State Department of Transportation</p>	SR 99	Plot 12
TIME	1:37:49 PM			10	WASH			ALASKAN WAY VIADUCT - REPLACEMENT	PLAN REF NO
DATE	9/26/2018			JOB NUMBER	17A805			SOUTH ACCESS - SR 99 CONNECTIONS	TC122
PLOTTED BY	huj			CONTRACT NO.	C9160	LOCATION NO.			SHEET
DESIGNED BY	D. WILKINSON							OF	
ENTERED BY	J. HU							SHEETS	
CHECKED BY	D. WILKINSON								
PROJ. ENGR.	J. FARRIS								
REGIONAL ADM.	B. NIELSEN			REVISION	DATE	BY			

SB SR99 PCMS	
PHASE 1	PHASE 2
ROADWORK AHEAD	1 MILE AHEAD
2.0 SEC	2.0 SEC



FIELD LOCATE 1 MILE (±)  
IN ADVANCE OF LANE CLOSURE SIGNING

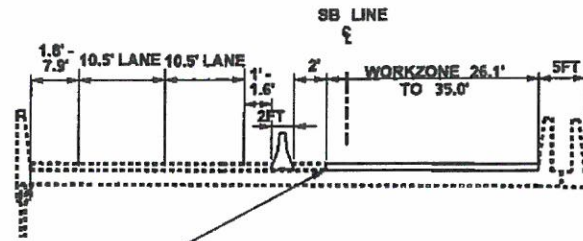
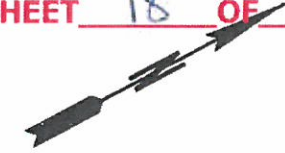


GENERAL NOTES

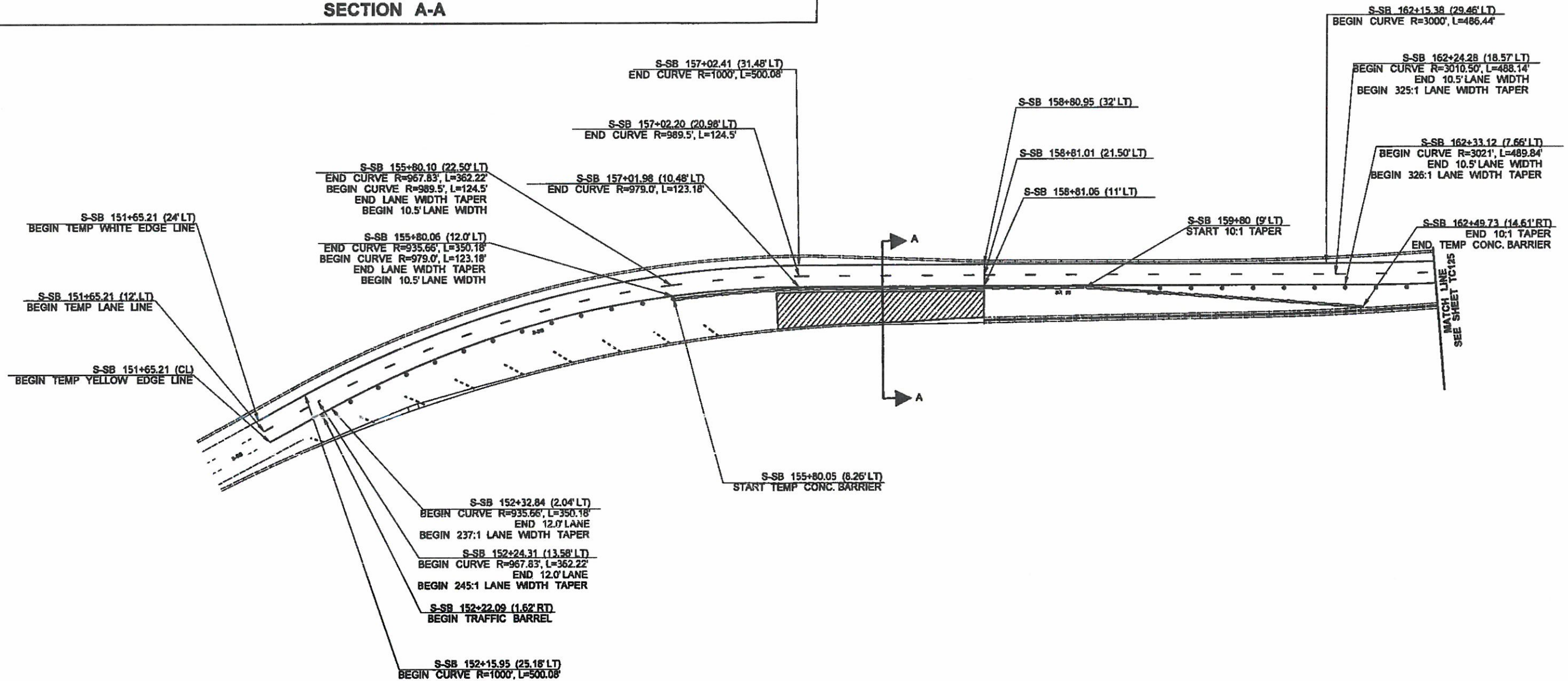
1. SEE SHEET TC001 FOR LEGEND
2. SEE SHEET TC001 FOR TEMPORARY TRAFFIC CONTROL DEVICE PLACEMENT REQUIREMENTS
3. NO FLAGGERS OR SPOTTERS THIS SHEET

**SOUTH APPROACH TRAFFIC CONTROL - ALTERNATIVE 2 STAGE 1**

FILE NAME	c:\sawork\pwwork\awv\huj\dms14910\South Approach Staging.DGN			REGION NO.	STATE	FED.AID PROJ.NO.	<p>Washington State Department of Transportation</p>	SR 99 ALASKAN WAY VIADUCT - REPLACEMENT SOUTH ACCESS - SR 99 CONNECTIONS	Plot 13
TIME	1:38:00 PM			10	WASH				PLAN REF NO TC123
DATE	9/26/2018			JOB NUMBER					
PLOTTED BY	huj			CONTRACT NO.					
DESIGNED BY	D. WILKINSON			LOCATION NO.					
ENTERED BY	J. HU								
CHECKED BY	D. WILKINSON								
PROJ. ENGR.	J. FARRIS								
REGIONAL ADM.	B. NIELSEN								
	REVISION	DATE	BY	C9160				TRAFFIC CONTROL PLAN	SHEET OF SHEETS



SECTION A-A



**SOUTH APPROACH TRAFFIC CONTROL - ALTERNATIVE 2 STAGE 2**

FILE NAME	c:\sawork\pwork\awv\huf\dms14910\South Approach Staging.DGN			REGION NO.	STATE	FED.AID PROJ.NO.	<p>Washington State Department of Transportation</p>	SR 99 ALASKAN WAY VIADUCT - REPLACEMENT SOUTH ACCESS - SR 99 CONNECTIONS TRAFFIC CONTROL PLAN	Plot 15
TIME	1:38:10 PM			10	WASH				PLAN REF NO TC124
DATE	9/26/2018			JOB NUMBER				SHEET	
PLOTTED BY	huj			17A805				OF	
DESIGNED BY	D. WILKINSON			CONTRACT NO.				SHEETS	
ENTERED BY	J. HU								
CHECKED BY	D. WILKINSON								
PROJ. ENGR.	J. FARRIS								
REGIONAL ADM.	B. NIELSEN								
REVISION		DATE	BY	C9160					

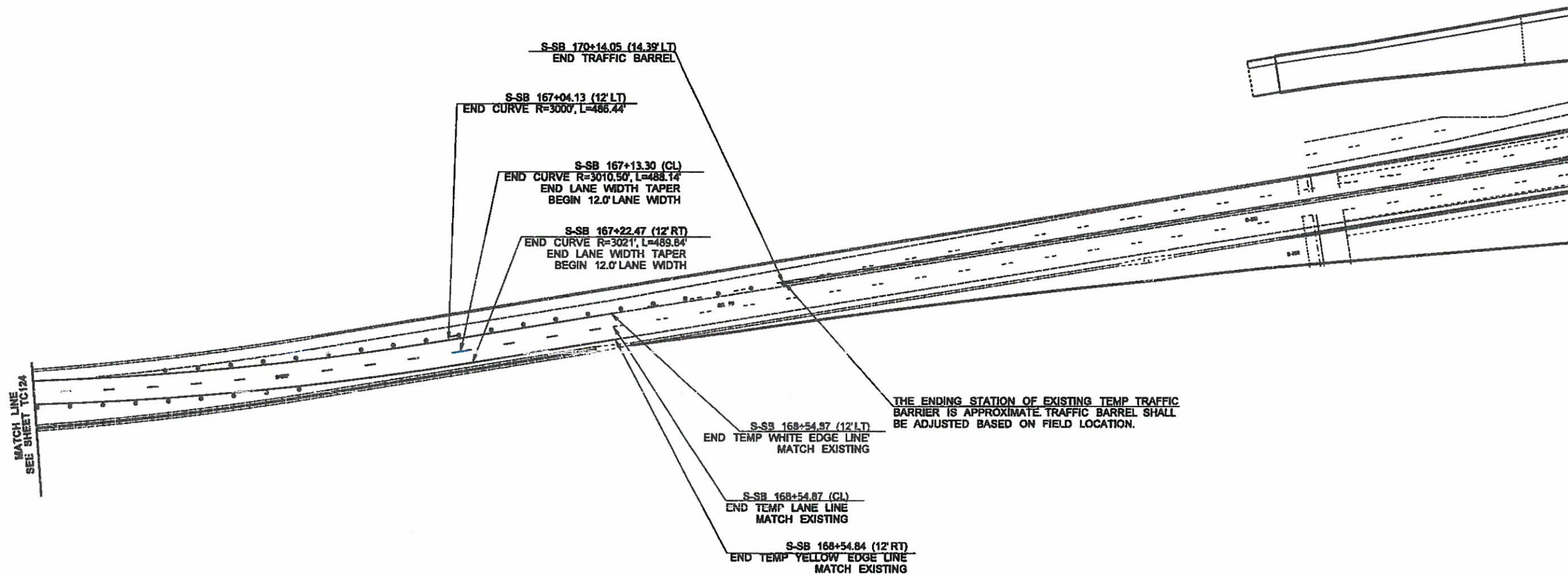
CONTRACT 9160

CHANGE ORDER 22

SHEET 19 OF 19

SB SR99 PCMS	
PHASE 1	PHASE 2
ROADWORK AHEAD	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE (+/-)  
IN ADVANCE OF LANE CLOSURE SIGNING



**SOUTH APPROACH TRAFFIC CONTROL - ALTERNATIVE 2 STAGE 2**

FILE NAME	c:\aswork\pwork\wvth\joms14910\South Approach Staging.DGN			REGION NO.	STATE	FED.AID PROJ.NO.	<p>Washington State Department of Transportation</p>	<p>SR 99 ALASKAN WAY VIADUCT - REPLACEMENT SOUTH ACCESS - SR 99 CONNECTIONS</p> <p>TRAFFIC CONTROL PLAN</p>	Plot 16
TIME	1:38:21 PM			10	WASH				PLAN REF NO TC125
DATE	9/26/2018			JOB NUMBER	17A805				SHEET
PLOTTED BY	hu			CONTRACT NO.	C9160	LOCATION NO.			OF
DESIGNED BY	D. WILKINSON								SHEETS
ENTERED BY	J. HU								
CHECKED BY	D. WILKINSON								
PROJ. ENGR.	J. FARRIS								
REGIONAL ADM.	B. NIELSEN			REVISION	DATE	BY			