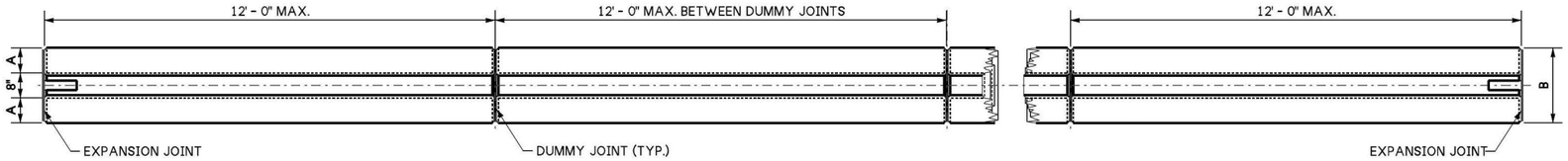
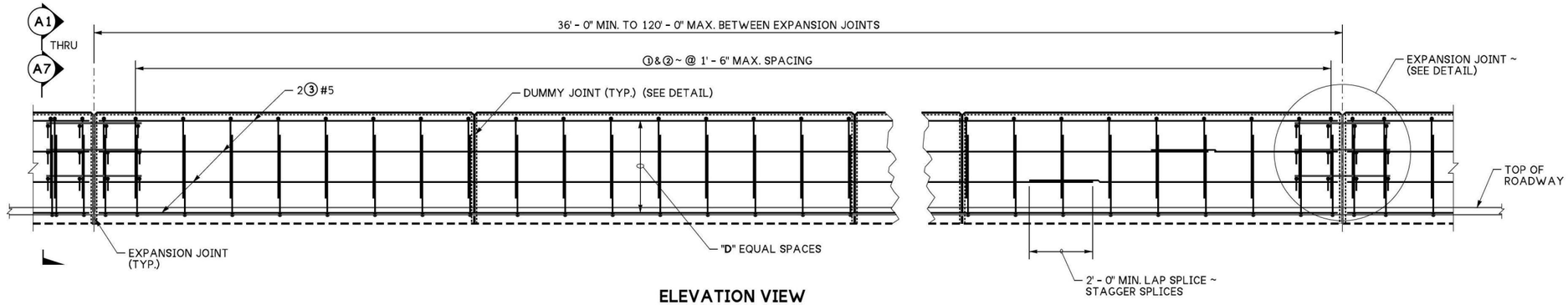
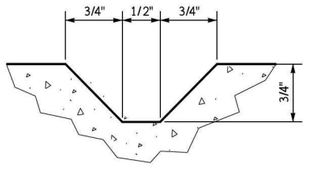


PLAN VIEW



ELEVATION VIEW

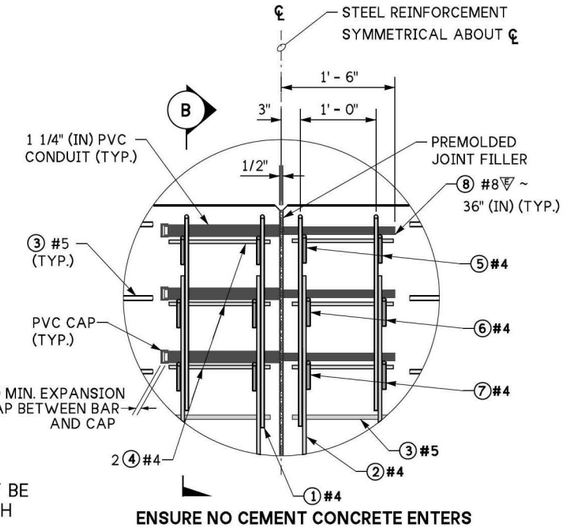


TYPICAL SECTION

DUMMY JOINT DETAIL

NOTE:

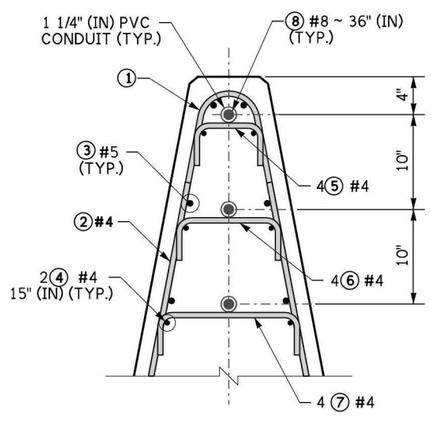
STEEL WIRE REINFORCEMENT DEFORMED FOR CONCRETE MAY BE SUBSTITUTED FOR REINFORCING STEEL IN ACCORDANCE WITH **STANDARD SPECIFICATION SECTION 6-10.3**



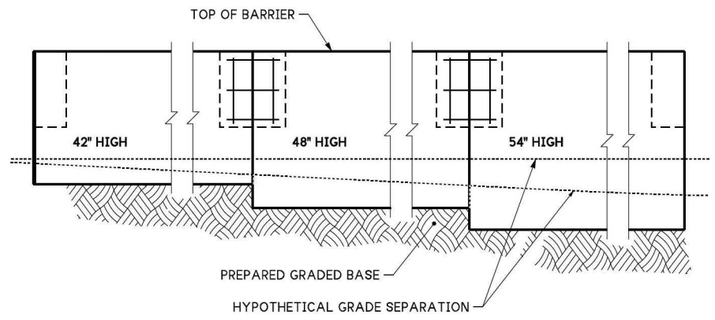
ENSURE NO CEMENT CONCRETE ENTERS THE PVC CONDUIT WHEN POURING

Ⓔ = EPOXY COATED

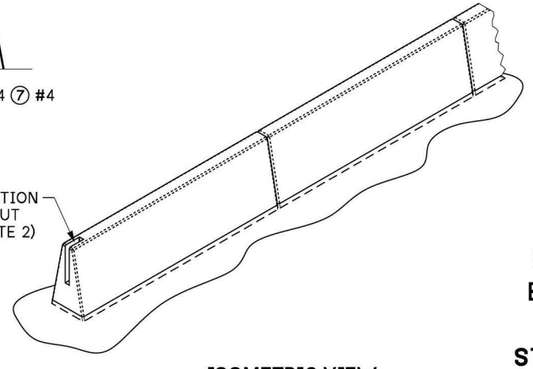
EXPANSION JOINT DETAIL



SECTION (B)



BARRIER TRANSITION DETAIL



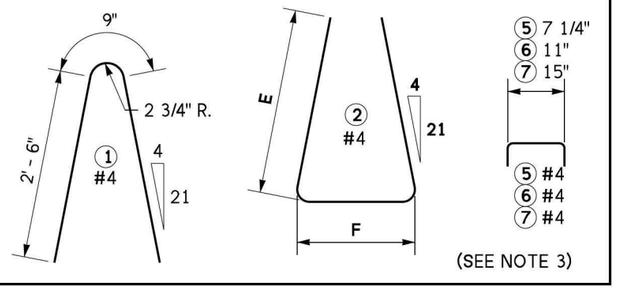
ISOMETRIC VIEW

NOTES

1. Reinforcing steel dimensions and clearances are shown for stationary form construction. When slipform construction is used, increase reinforcing steel clearances to the outside surfaces of the barrier to 2 1/2" (in) and adjust the rebar dimensions as required.
2. When connecting between cast-in-place and pre-cast single-slope barrier, provide a Blockout, Rebar Grid, and added rebar, as shown in **Standard Plan C-70.10**.
3. The actual dimensions will vary as the grades change and the barrier transitions in height and width. The dimensions may be interpolated for intermediate barrier heights.
4. For barrier with a 2' - 10" reveal, see sheet 2. For High-Performance Barrier with a 3' - 6" reveal, see Sheet 3.
5. The barrier embedment depth shall be equal to or greater than the grade separation.

REINFORCING STEEL BENDING DIAGRAM

SEE **STD. SPEC. SECTION 9-07.1(2)** FOR BENDING DIAMETERS



DIMENSION TABLE (SEE NOTE 3)

BARRIER HEIGHT	A	B	D	E	F	HORIZONTAL BARS (QTY.)
3' - 6"	8"	2' - 0"	3	2' - 6"	1' - 8"	8
4' - 0"	9 1/8"	2' - 2 1/4"	4	3' - 0"	1' - 10"	10
4' - 6"	10 1/4"	2' - 4 1/2"	5	3' - 6 1/2"	2' - 0"	12

Aug 13, 2026

SINGLE-SLOPE CONCRETE BARRIER (CAST-IN-PLACE) DUAL-FACED STANDARD PLAN C-80.10-04

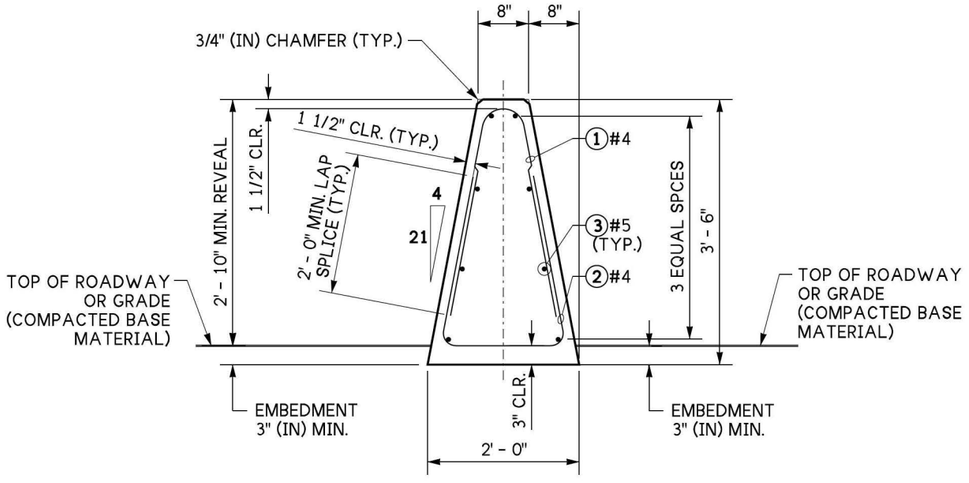
SHEET 1 OF 3 SHEETS

APPROVED FOR PUBLICATION

Mark A Gaines Aug 13, 2026

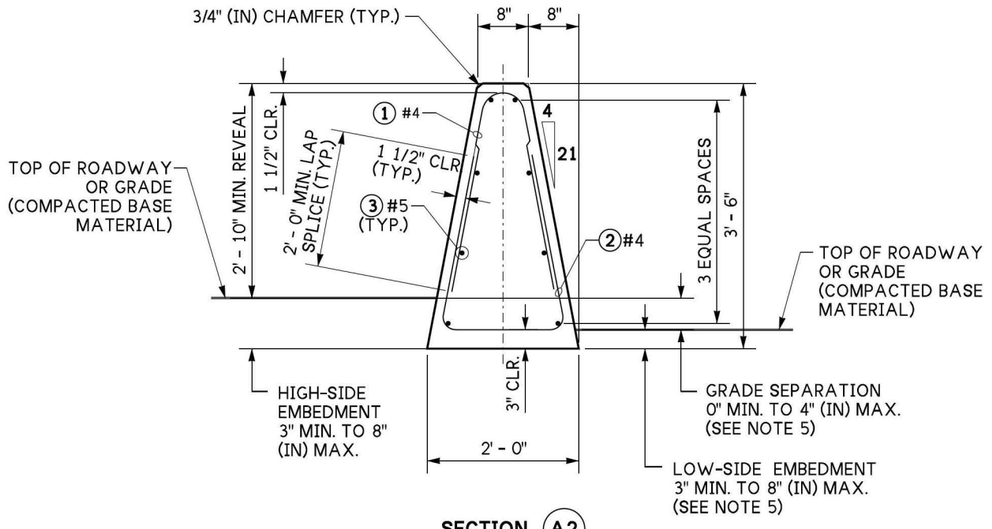
STATE DESIGN ENGINEER

Washington State Department of Transportation



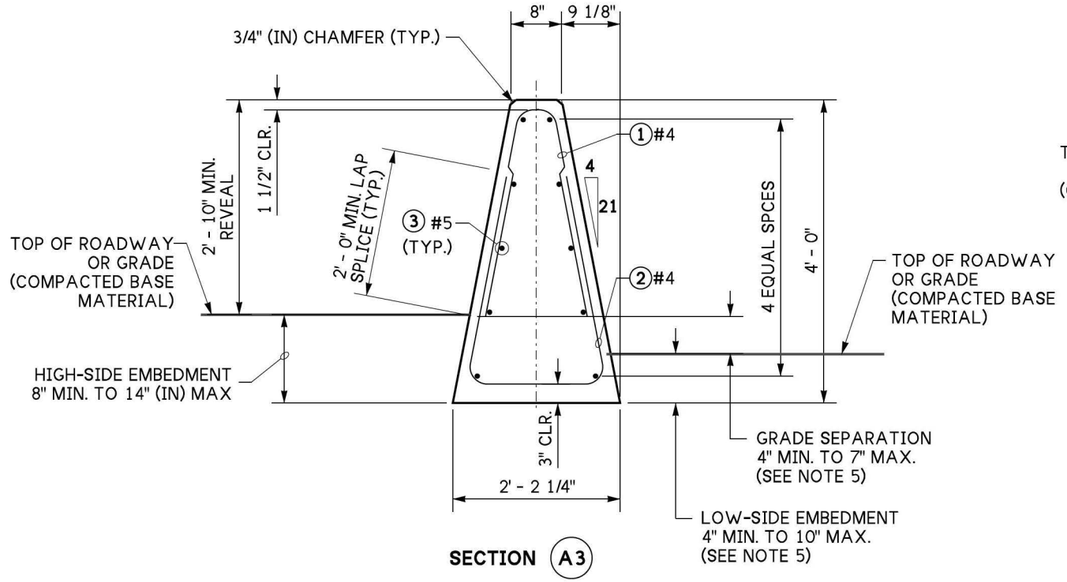
SECTION (A1)

(3' - 6" BARRIER SHOWN LEVEL)



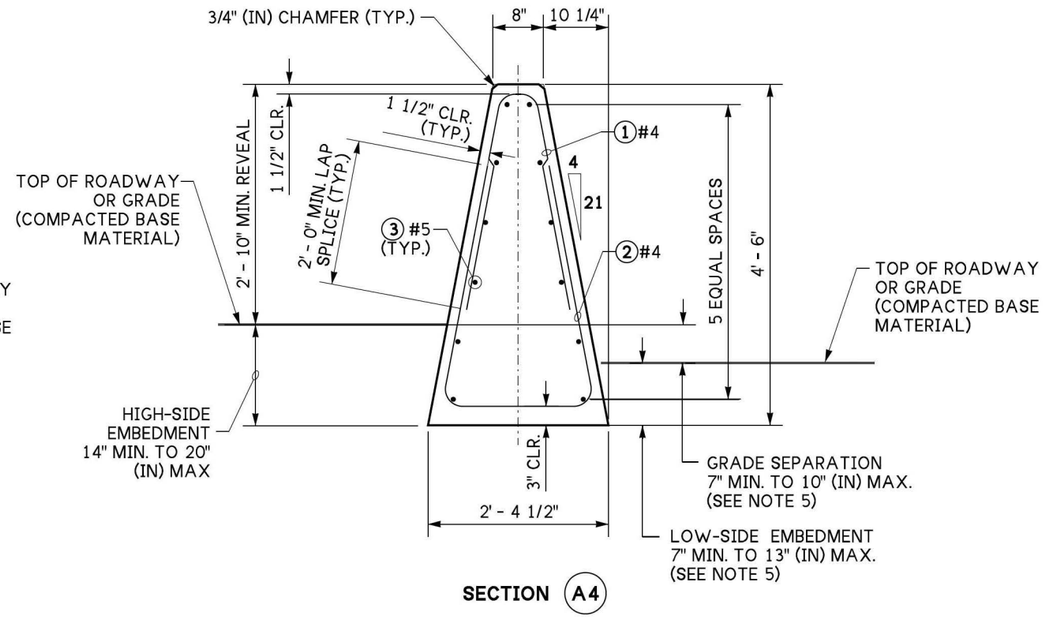
SECTION (A2)

3' - 6" BARRIER FOR USE WITH A 0" TO 4" (IN) GRADE SEPARATION (SEE NOTE 3)



SECTION (A3)

4' - 0" BARRIER FOR USE WITH A GREATER THAN 4" TO 7" (IN) GRADE SEPARATION (SEE NOTE 3)



SECTION (A4)

4' - 6" BARRIER FOR USE WITH A GREATER THAN 7" TO 10" (IN) GRADE SEPARATION (SEE NOTE 3)

SINGLE SLOPE BARRIER 2' - 10" MIN. REVEAL ~ 3" (IN) MIN. EMBEDMENT IN ASPHALT, CONCRETE, OR COMPACTED BASE MATERIAL (EG., CSBC, SELECT BORROW, GRAVEL BORROW, NATIVE SOIL ETC.).

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Aug 13, 2026

SINGLE-SLOPE CONCRETE BARRIER (CAST-IN-PLACE) DUAL-FACED

STANDARD PLAN C-80.10-04

APPROVED FOR PUBLICATION

Mark A Dowis — Aug 13, 2026

STATE DESIGN ENGINEER

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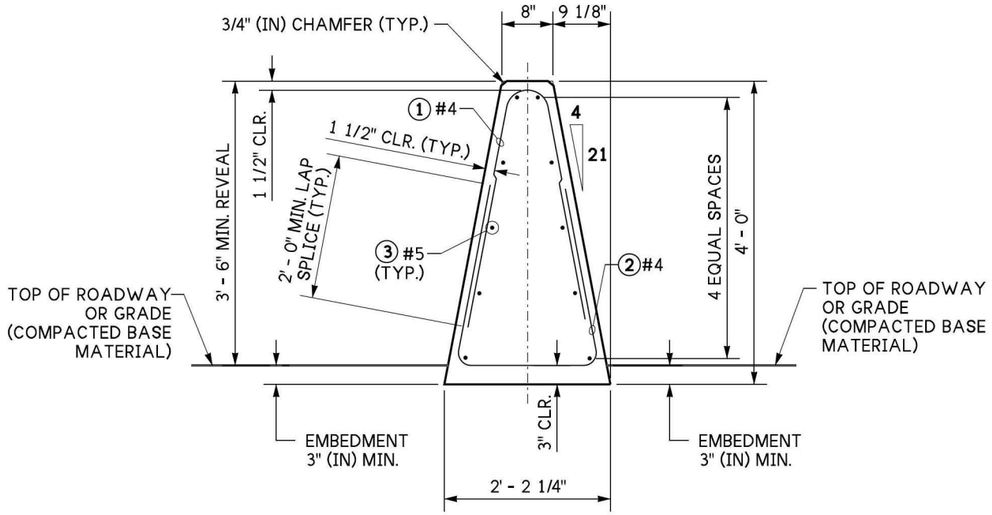
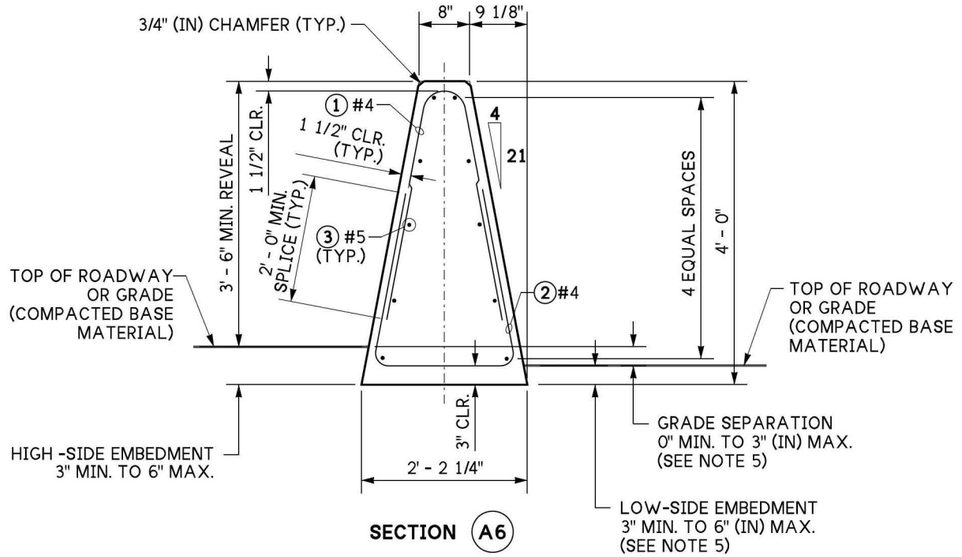


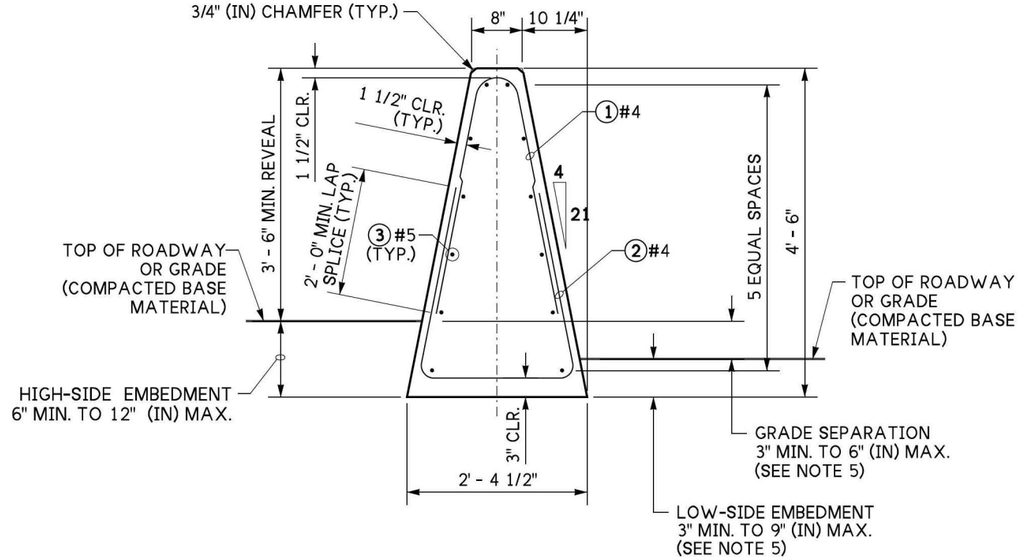
SECTION A5

(4' - 0" BARRIER SHOWN LEVEL)



SECTION A6

4' - 0" BARRIER FOR USE WITH A 0" TO 3" (IN) MAXIMUM GRADE SEPARATION (SEE NOTE 3)



SECTION A7

4' - 6" BARRIER FOR USE WITH A GREATER THAN 3" TO 6" (IN) MAXIMUM GRADE SEPARATION (SEE NOTE 3)

HIGH PERFORMANCE SINGLE SLOPE BARRIER 3' - 6" MINIMUM REVEAL 3" (IN) MINIMUM EMBEDMENT IN ASPHALT/CONCRETE, OR COMPACTED BASE MATERIAL (EG., CSBC, SELECT BORROW, GRAVEL BORROW, NATIVE SOIL ETC.).

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APPROVED FOR PUBLICATION

Mark A Dowes Aug 13, 2026

STATE DESIGN ENGINEER

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