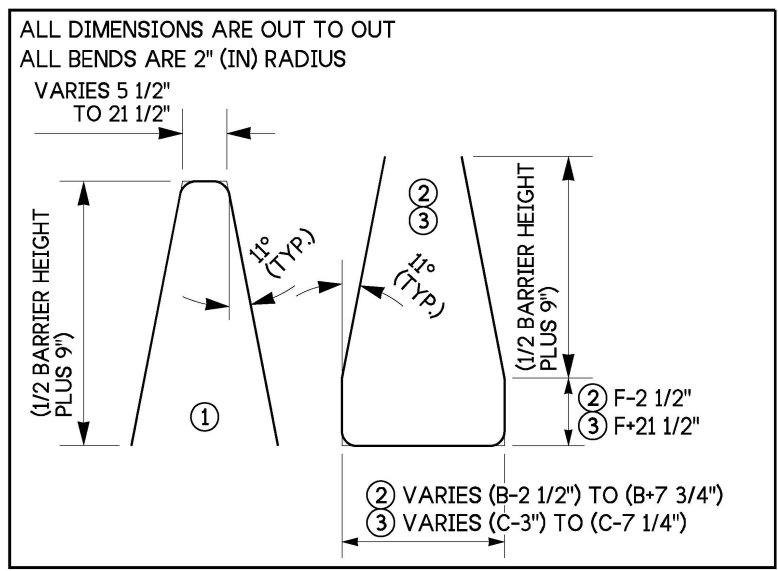
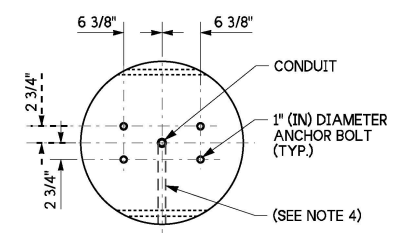


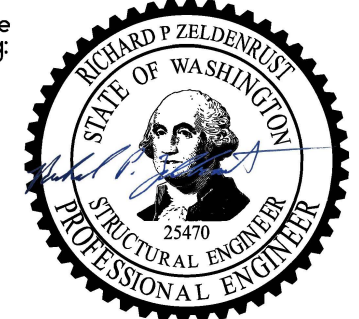
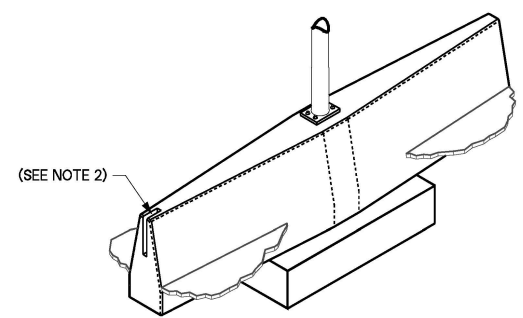
NOTES

- This Barrier/Foundation combination has been designed in accordance with AASHTO LRFD Test Level 4 requirements. The horizontal vehicle impact force at the top of the barrier is taken at 54 kips for Strength and Extreme Limit States, and 10 kips for footing stability (overturning and sliding) in the Service Limit State.
- When connecting between cast-in-place and precast Single-Slope Barrier, provide a connection Blockout and Rebar Grid as shown on Standard Plan C-70.10.
- Grounding conductor shall be non-insulated #4 AWG stranded copper; provide 3' - 0" min. slack. Clamp steel reinforcing bar with connector suitable for use embedded in concrete.
- See Contract Plans for conduit placement.
- Install Conduit Coupling flush with top of foundation. Do not glue PVC stubout.
- This plan shall be used for 40' and 50' (ft.) Light Standards with 16' (ft.) max. length double mast arms.
- Concrete shall be Class 4000.
- The factored soil bearing resistance shall equal or exceed the following:
 - Service limit state = 6 ksf
 - Strength limit state = 24 ksf
 - Extreme limit state = 48 ksf



BAR LIST			
MARK NO.	LOCATION	SIZE	QUANTITY
1	BARRIER ~ TOP VERTICAL	# 4	42
2	BARRIER ~ BOTTOM VERTICAL	# 4	26
3	FND. & BARRIER ~ VERTICAL	# 4	16
4	BARRIER ~ HORIZONTAL	# 5	28
5	BARRIER ~ HORIZONTAL @ CORNERS	# 6	4
6	FOUNDATION	# 5	9
7	FOUNDATION	# 5	32

TABLE						
GRADE SEPARATION	BARRIER HEIGHT	A	B	C	D	F
0 TO 3"	4' - 0"	9 1/8"	2' - 2 1/4"	3' - 6 1/4"	VARIES 3" TO 6"	8 1' - 2"
UP TO 6" MAX.	4' - 6"	10 1/4"	2' - 4 1/2"	3' - 8 1/2"	VARIES 6" TO 12"	8 11"



Oct 17, 2023

SINGLE-SLOPE CONCRETE BARRIER (42") LIGHT STANDARD FOUNDATION STANDARD PLAN C-85.15-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Mark A. Plaines Oct 17, 2023

STATE DESIGN ENGINEER

Washington State Department of Transportation