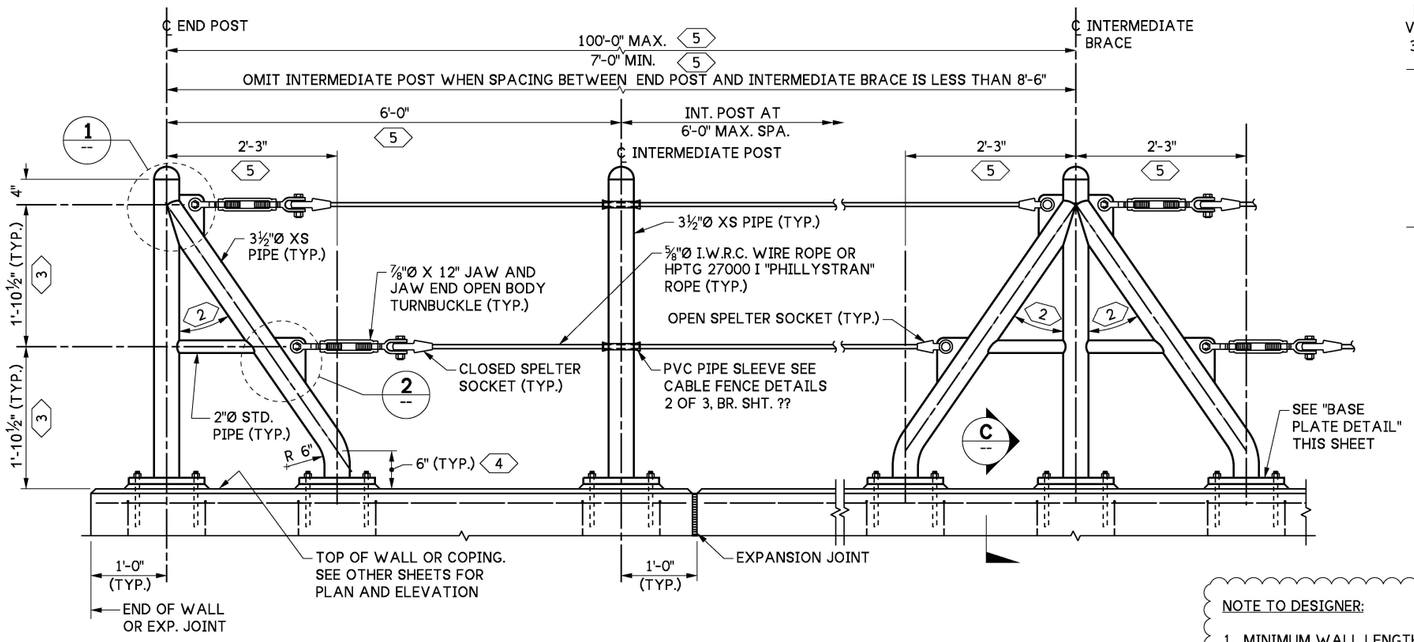
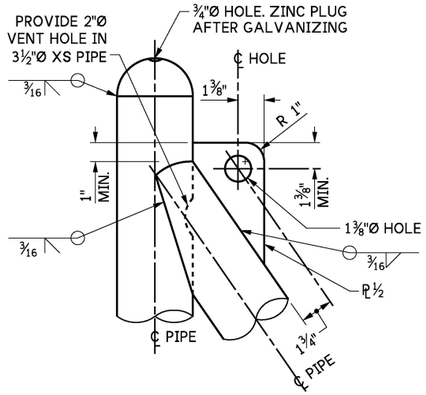


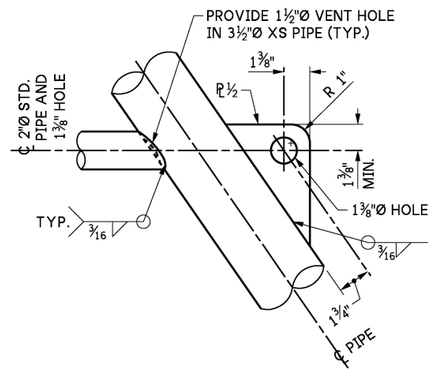
ELEVATION - CABLE FENCE

NOTE TO DESIGNER:

1. MINIMUM WALL LENGTH IS 9'-0" FOR THESE DETAILS.
2. SEE SHEET 3 FOR WALL LENGTHS LESS THAN 9'-0".



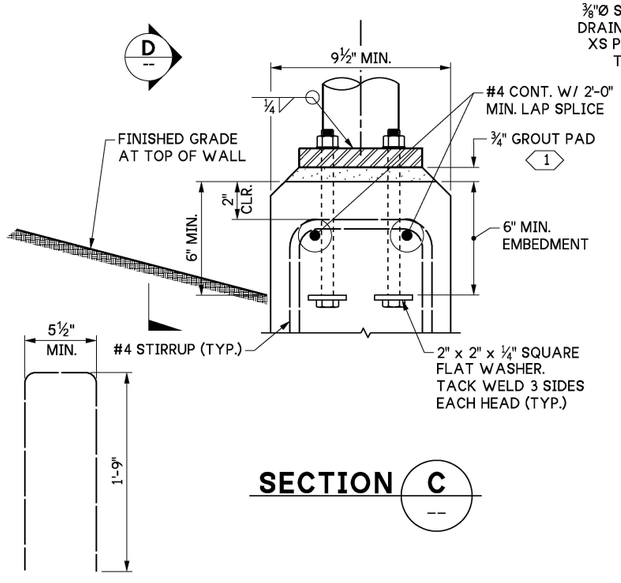
DETAIL 1



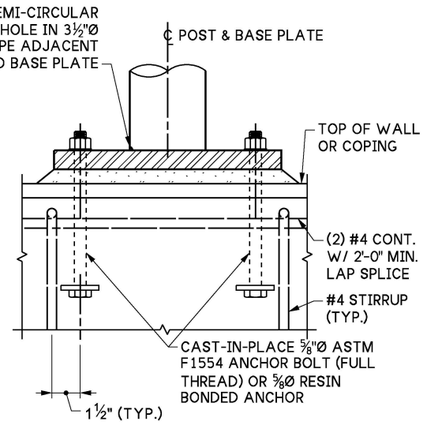
DETAIL 2

NOTES:

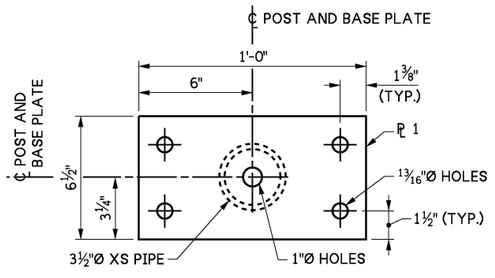
1. ALL STEEL PIPE SHALL BE ASTM A53 GRADE B, TYPE E OR S, OR EQUIVALENT HSS ROUND TUBE A500 GRADE B.
2. ALL STEEL PLATES SHALL BE ASTM A36 OR ASTM A572.
3. WIRE ROPE SHALL CONSIST OF ZINK-COATED WIRES CONFORMING TO ASTM A603, OR ASTM A1023 WITH A PRESTRETCHED MODULUS OF ELASTICITY OF 15,000 KSI, OR "PHILLYSTRAN" ROPE.
4. ALL PARTS, EXCEPT ROPE, SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M111, M232, OR ASTM F2329 AFTER FABRICATION, UNLESS NOTED OTHERWISE.
5. THE SPELTER SOCKETS AND SOCKETING PROCEDURE SHALL BE IN ACCORDANCE WITH THE SPELTER SOCKET AND ROPE MANUFACTURERS RECOMMENDATIONS.
6. ALL POSTS SHALL BE INSTALLED VERTICAL. ROPE SHALL BE INSTALLED PARALLEL TO TOP OF WALL.
7. ROPE SHALL BE INSTALLED TO 400 LBS TENSION LEAVING A TAKE UP OF 6" STILL AVAILABLE IN THE TURNBUCKLE. THE CONTRACTOR SHALL SUBMIT CABLE TENSIONING DETAILS TO THE ENGINEER FOR ACCEPTANCE.
8. EACH CONTINUOUS LENGTH OF CABLE SHALL HAVE A TURNBUCKLE AT ONE END ONLY AND SHALL BE ANCHORED THE END POST OR INTERMEDIATE BRACE.
9. INTERMEDIATE, END POSTS, AND INTERMEDIATE BRACE SHALL NOT BE INSTALLED ACROSS AN EXPANSION JOINT.
10. CABLE FENCE WAS DESIGNED FOR A 200 LB. SERVICE LOAD ON THE TOP RAIL APPLIED IN ANY DIRECTION, IN ACCORDANCE WITH THE WASHINGTON ADMINISTRATIVE CODE 296-880.
11. ROPE, PELTER SOCKETS, TURNBUCKLES AND THEIR CONNECTIONS SHALL HAVE A MINIMUM BREAKING STRENGTH OF 26 KIPS.
12. SUPPLEMENTAL REQUIREMENTS S2, S3, AND S4 OF ASTM F1554 NEED NOT BE MET FOR THE ANCHOR BOLTS.
13. REINFORCEMENT SHOWN IS FOR ANCHOR BOLT CONNECTION ONLY. ENGINEER TO DESIGN ADDITIONAL REINFORCEMENT REQUIRED FOR COPING OR TOP OF WALL.



SECTION C



VIEW D



BASE PLATE DETAIL

KEY NOTES:

1. GROUT SHALL BE IN ACCORDANCE WITH SECTION 9-20.3 (2).
2. ANGLES VARY WITH THE SLOPE OF THE TOP OF WALL.
3. MEASURED PARALLEL TO THE POSTS.
4. MEASURED PERPENDICULAR TO THE TOP OF THE WALL.
5. MEASURED PARALLEL TO THE SLOPE OF THE TOP OF THE WALL.

#4 STIRRUP

LAST REVISED: 10/23/2025

8.1-A6-3

FILE NAME 8.1-A6-3_Cable Fence Details 1 of 3.dgn				
BRIDGE DES. ENG.				
BRIDGE PROJ. ENG.				
SUPERVISOR				
DESIGNED BY				
CHECKED BY				
ENTERED BY				
PRELIM. PLAN BY				
ARCH. / SPEC.	REVISION	DATE	BY	

REGION NO. 10 | STATE WASH
JOB NUMBER
CONTRACT NO.

WSDOT
PRELIMINARY PLAN NOT FOR CONSTRUCTION

SEE CERTIFICATION SHEET DATE STAMP BOX

SEE CERTIFICATION SHEET DATE STAMP BOX

STANDARD DESIGN DRAWINGS
FALL PROTECTION

CABLE FENCE
DETAILS 1 OF 3

PLAN REF NO

SHEET OF SHEETS

PLOT DATE: 06-Jan-2026 PLOT TIME: 2:03:57 PM PLOTTED BY: deboejak FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Standards/Standard Drawings and Details/Walls and Fall Protection/Fall Protection/_DGN/8.1-A6-3_Cable Fence Details 1 of 3.dgn