

GENERAL NOTES

DESIGN:

AASHTO LRFD Bridge Design Specifications, 8th Edition
with California Amendments, preface dated April 2019.

PRESTRESSING STEEL:

Bars $f_{pu}=150$ ksi

Strands $f_{pu}=270$ kN

FTL - Factored Test Load per anchor (kips)

f_{pu} - Tensile st

As = Minimum cross sectional area of prestressing steel

As - Minimum cross sectional area of prestressing steel in ground anchor (square inch)

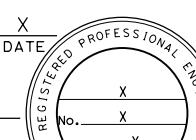
$$A_s (\text{Min}) = \frac{1.0 \text{ FTL}}{0.75 f_{pu}}$$

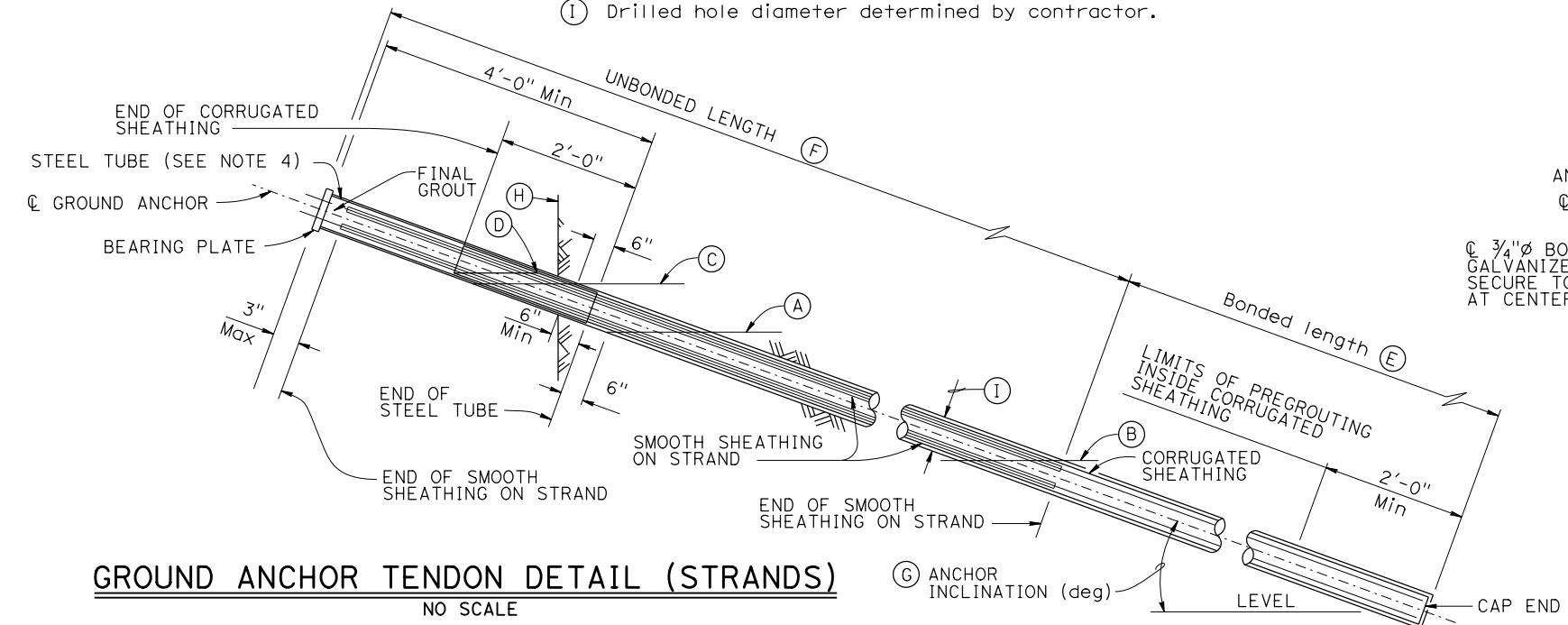
NOTES:

- (A) Level of initial grouting for drilled hole 6" diameter or smaller.
- (B) Level of initial grouting for drilled hole greater than 6" diameter.
- (C) Level of secondary grouting.
- (D) Level of initial grouting inside corrugated sheathing.
- (E) Bonded length determined by contractor.
- (F) For unbonded length, see other plan sheets.
- (G) For anchor inclination, see other plan sheets.
- (H) Face of Wall Excavation behind lagging, or back of Shotcrete.
- (I) Drilled hole diameter determined by contractor.

NOTES:

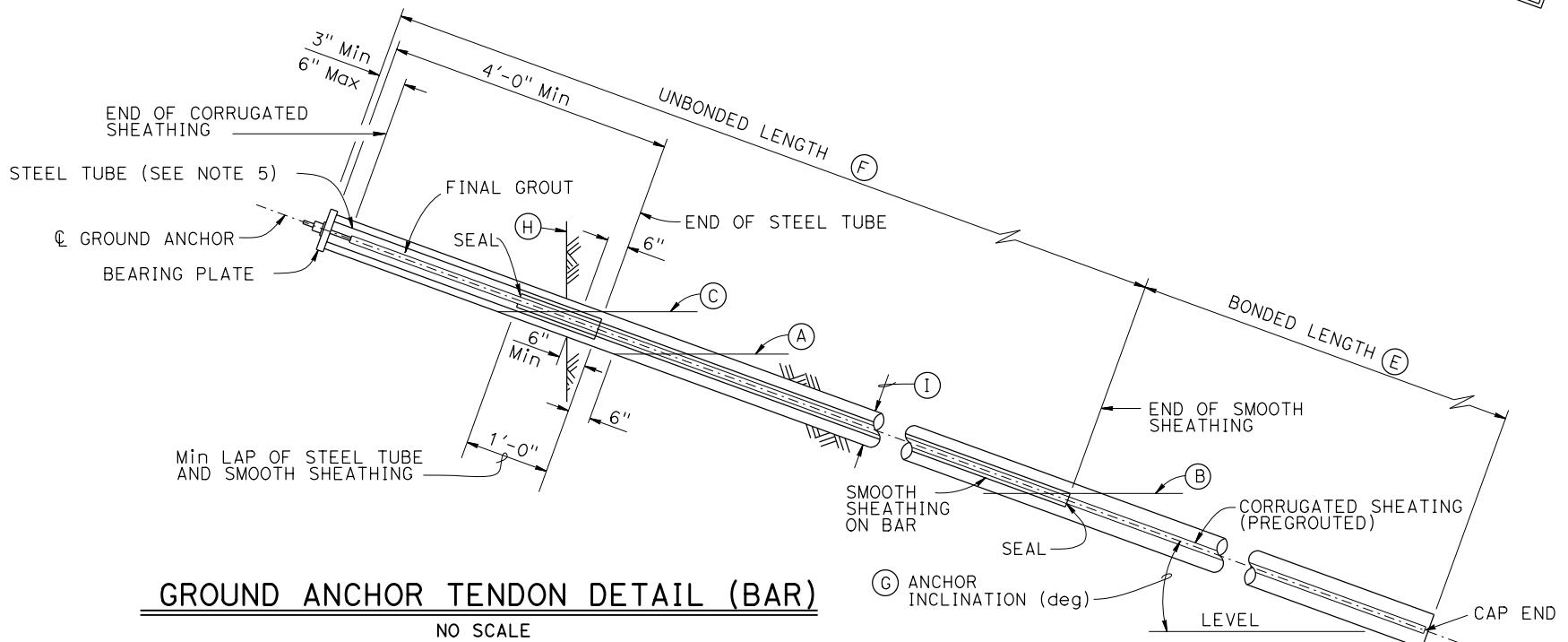
1. Anchorage enclosure must be used when anchor head assembly is not encapsulated in concrete.
2. Anchorage enclosure must have provisions to allow injecting grout at low end and venting at high end. Galvanize after fabrication.
3. Silicone sealant to cover full width of flange.
4. Strand Tendons: Steel tube (Min thickness = $1/4"$) welded to bearing plate. Inside diameter of steel tube to be 1" greater than outside diameter of corrugated sheathing. Galvanize after fabrication.
5. Bar Tendons: Steel tube (Min thickness = $1/4"$) welded to bearing plate. Inside diameter of steel tube to be 1" greater than outside diameter of smooth sheathing. Galvanize after fabrication.
6. Steel tube must extend 6" min into retained soil behind structural element at each anchor location.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	HEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.					



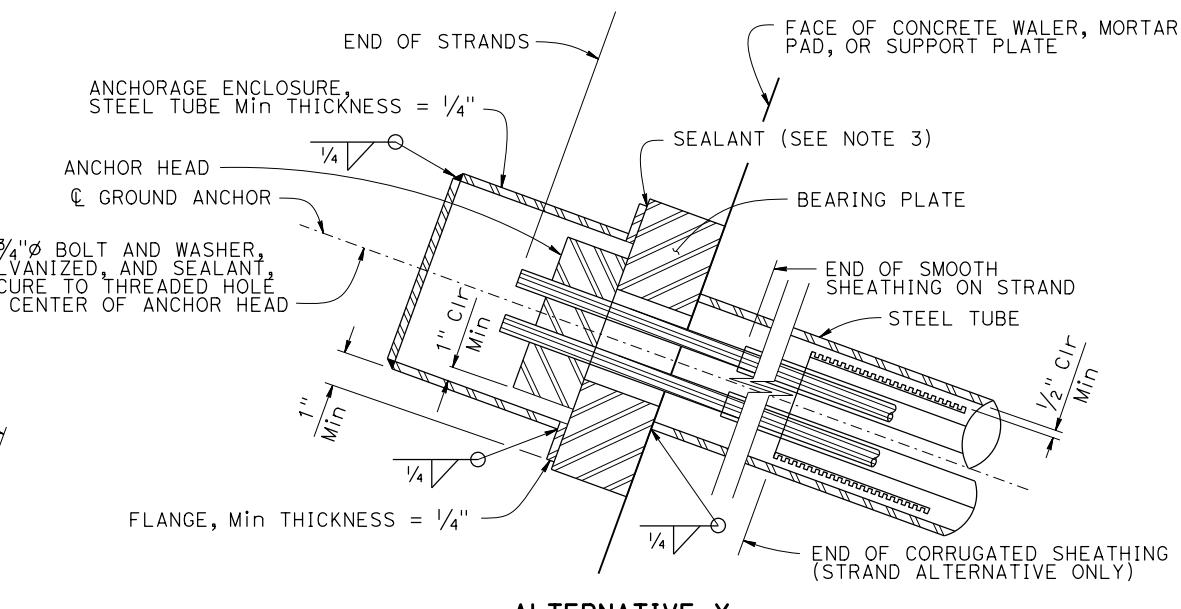
GROUND ANCHOR TENDON DETAIL (STRANDS)

NO SCA

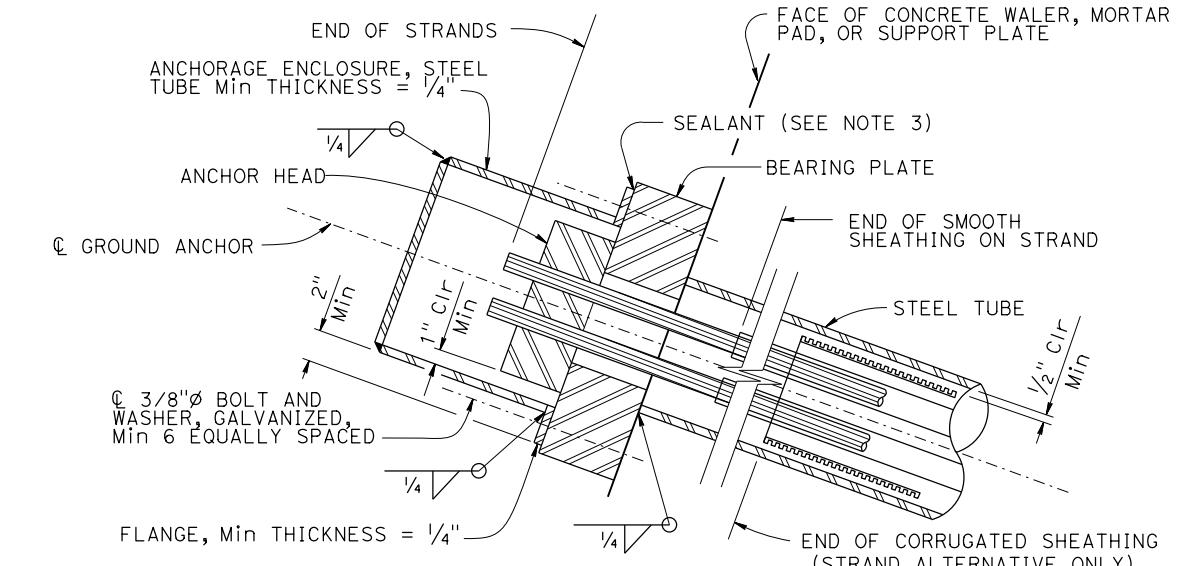


GROUND ANCHOR TENDON DETAIL (BAR)

NO SCAL



ALTERNATIVE X



ALTERNATIVE Y

ANCHORAGE ENCLOSURE DETAILS

NO SCALE

BRIDGE STANDARD DETAILS				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES		BRIDGE No. XX-XXXX	X				
xs12-040 FILE NO.	January 2026 APPROVAL DATE	The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California						POST MILE X.X	SUB-HORIZONTAL GROUND ANCHOR DETAILS				
Refer to: http://www.dot.ca.gov/esc/techpubs/manuals/bridgemanuals/bridge-standard-detail-sheets/index.html				DATE PLOTTED => 8-JAN-2026 TIME PLOTTED => 15:09 ORIGINAL SCALE FILE => 202601xs12-040.dgn USERNAME => s155182 IN INCHES FOR REDUCED PLANS		0	1	2	3	UNIT: XXXX PROJECT NUMBER & PHASE: XXXXXXXXXX1 COUNTY/ROUTE/ZONE: XXX/XXX/X CONTRACT No.: XX-XXXXX4	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET OF X X