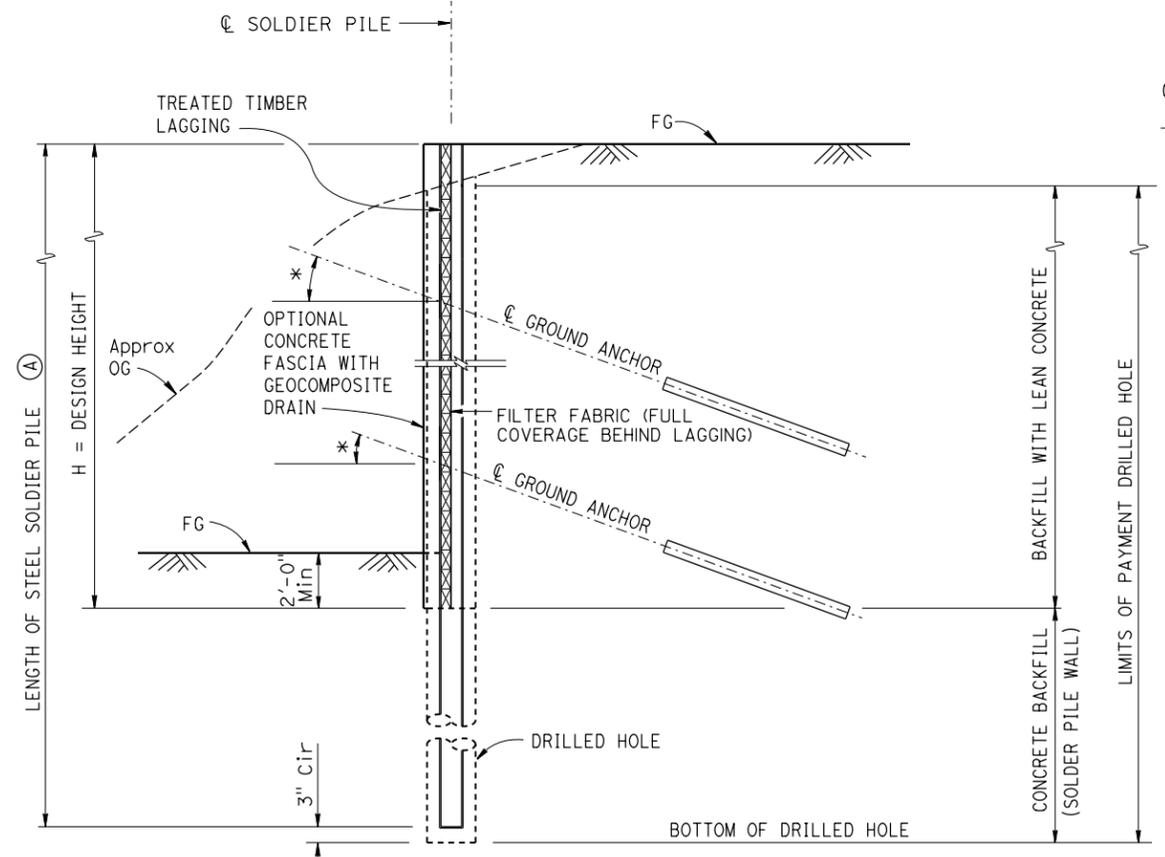
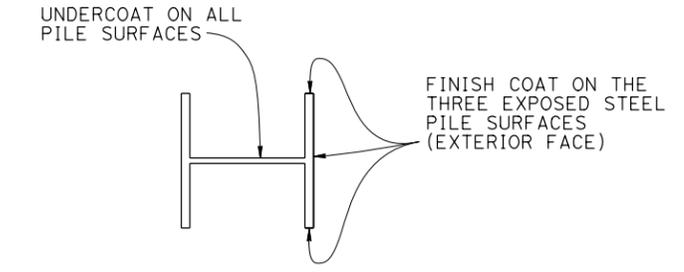


DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			No. _____		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.			Exp. _____		
The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.			CIVIL		

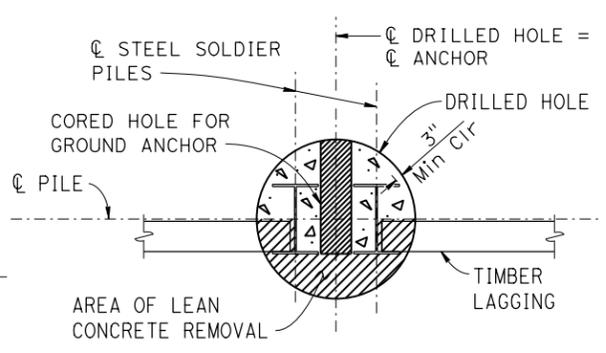


* To be determined by Design Engineer

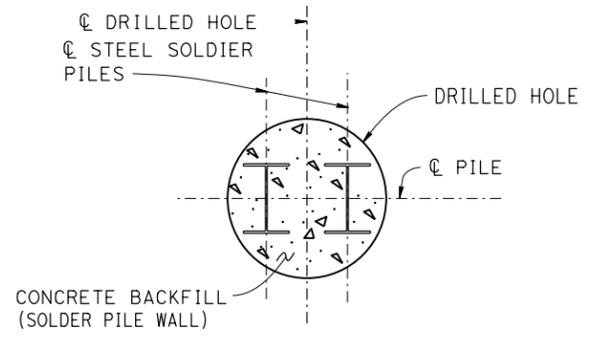
TYPICAL SECTION
NO SCALE



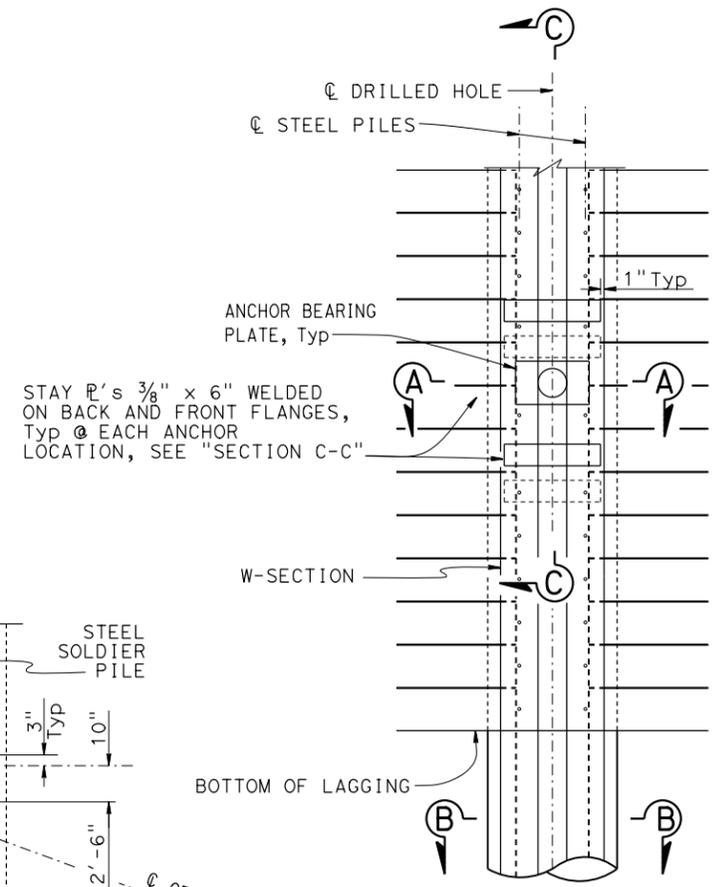
LIMITS OF CLEAN & PAINT STEEL SOLDIER PILE
NO SCALE



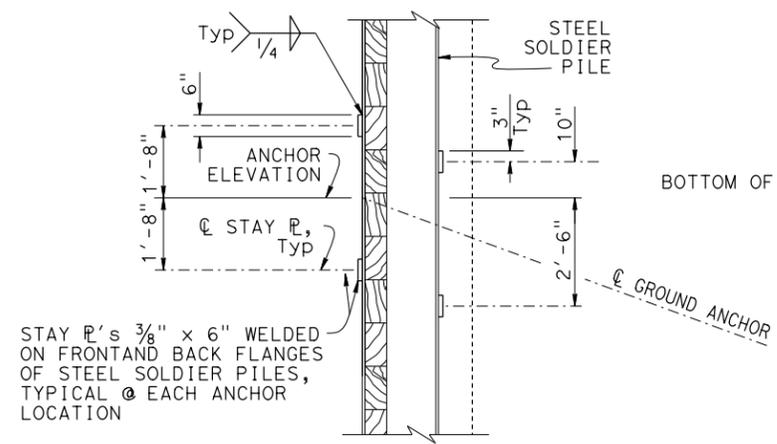
SECTION A-A
NO SCALE



SECTION B-B
NO SCALE



PART ELEVATION
NO SCALE



SECTION C-C STAY PLATE DETAILS
NO SCALE

GENERAL NOTES:

- DESIGN: AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments.
- LIVE LOAD: 240 psf equivalent to 2 feet soil weight.
- SOIL PARAMETERS: (For determination of Design Lateral Earth Pressures)
 - Backfill soil weight = _____ lb/ft³
 - Friction Angle = _____ °
 - Active Pressure coefficient, Ka = _____
 - Bedrock Unit Weight = _____ lb/ft³
- SEISMIC PARAMETERS: k_h = _____
- STEEL SOLDIER PILES: ASTM A572/A, ASTM 572M Grade 50 Min, or ASTM A36/A36M
- REINFORCED CONCRETE (FASCIA): f'_c = 4000 psi, f_y = 60 ksi
- STRUCTURAL TIMBER: Treated Douglas Fir, Grade No.1 or better. Timber to be full sawn.
- PRESTRESSING STEEL (GROUND ANCHORS):
 - FDL = Factored Design Load on ground anchor (kips)
 - FTL = Factored Test Load (kips)
 - LL = Lock-Off Load (kips)
- f_{pu} = Minimum ultimate tensile strength of ground anchor steel (ksi)
- A_s (Min) = Minimum cross sectional area of steel in ground anchor. (square inch)
- Steel = ASTM designation: A416 (HS Strands)
- A_s (Min) = $\frac{1.0 \text{ FTL}}{0.75 \text{ fpu}}$
- Steel = ASTM designation: A722 (HS Bars)
- A_s (Min) = $\frac{1.0 \text{ FTL}}{0.80 \text{ fpu}}$
- FDL = _____ Kips
- FTL = _____ Kips
- LL = _____ Kips

NOTES:
For details not shown, see "PROJECT PLANS".
Clean and paint Steel Soldier Pile from top of pile to 5 feet Min below bottom of lagging.

BRIDGE STANDARD DETAILS			STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		SOLDIER PILE WALL WITH GROUND ANCHORS	
xs12-070	October 2014	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.	DEPARTMENT OF TRANSPORTATION		ENGINEERING SERVICES		POST MILE			
FILE NO.	APPROVAL DATE		FILE => xs12-070.dgn	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: PROJECT NUMBER & PHASE:	CONTRACT NO.:	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	SHEET OF
			USERNAME => s136236	0 1 2 3			6-24-14	8-18-14	7-12-16	