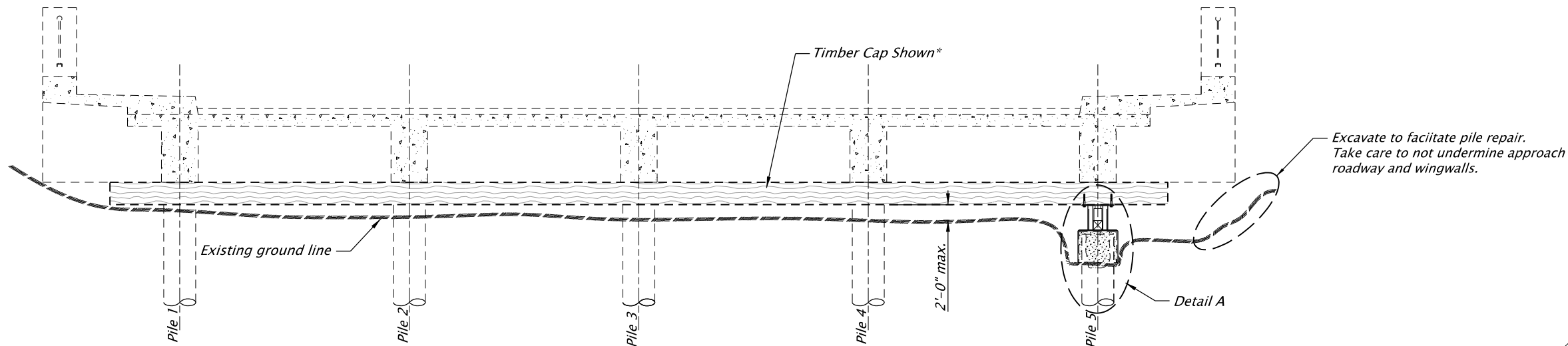




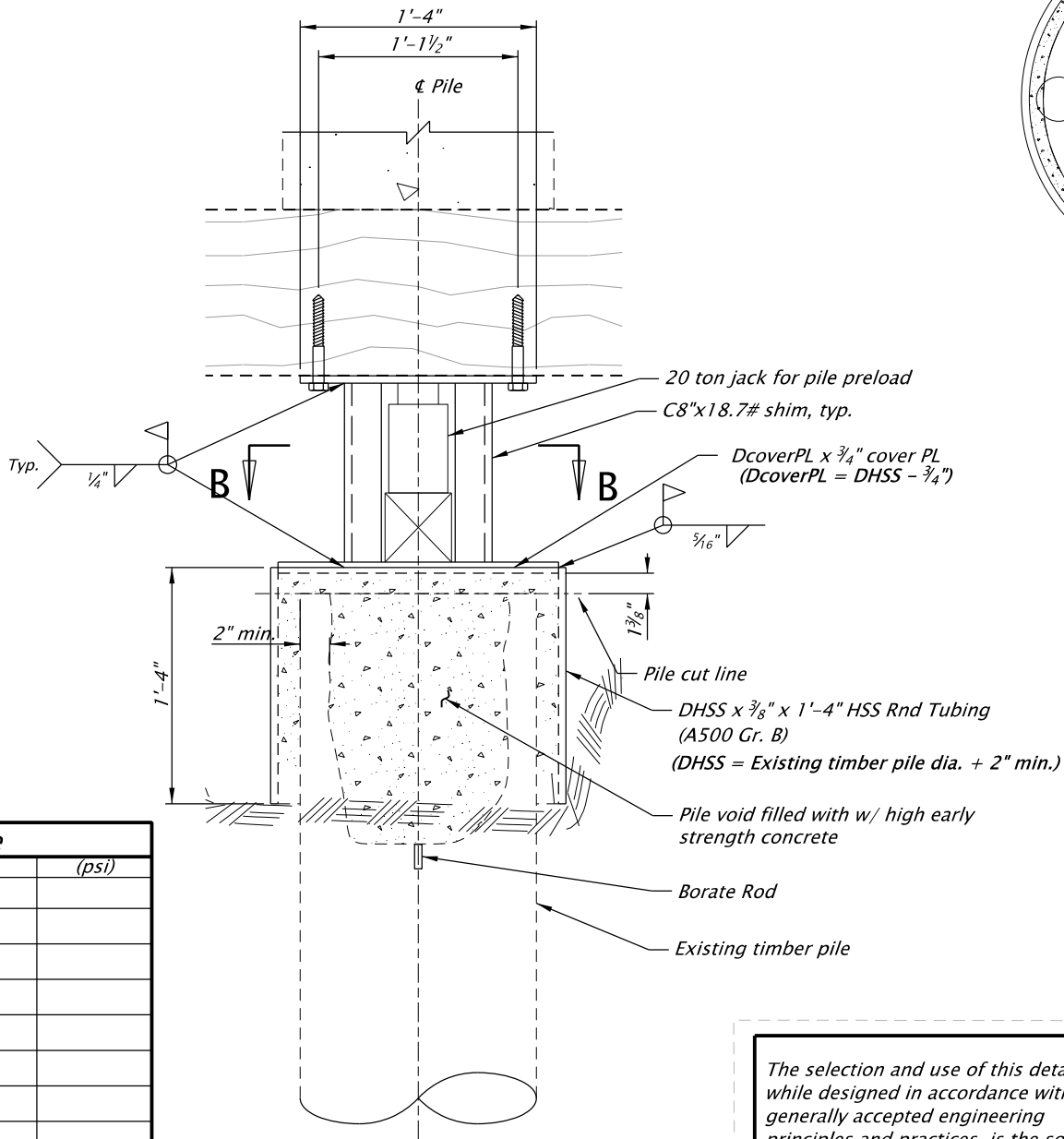
ELEVATION VIEW

PILE REPAIR GENERAL NOTES:

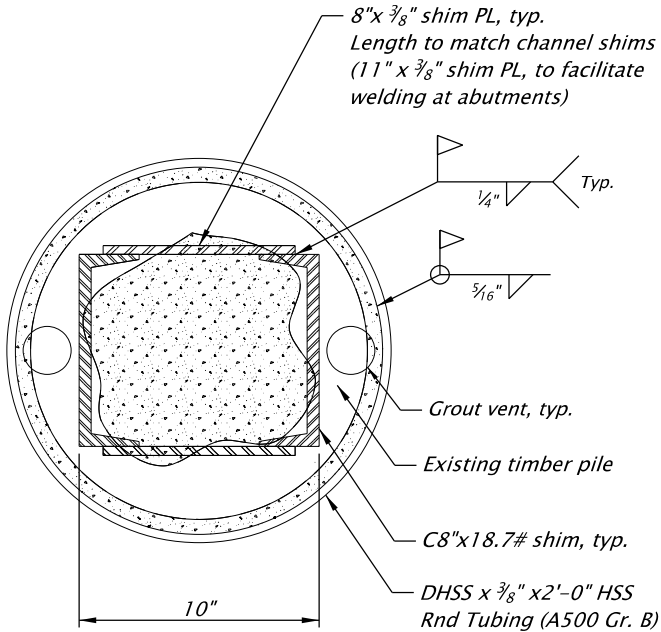
Note: Temporary shoring requirements shall be detailed in project plans.

- Excavate around the existing pile to a depth of 2'-0" min. to facilitate the installation of HSS Round Steel Tube.
- Drill the portion of exposed pile to verify that a 2" (minimum) solid timber shell remains.
-If there is less than a 2" solid shell remaining, extend the excavation until 1'-2" of pile with a solid 2" shell is exposed.
(Note: Need at least 1'-4" clear from bottom of cap.)
- Setup temporary shoring and traffic control as detailed in shoring plan.
- Cut and remove existing timber pile. Cut shall be at least 1'-2" from btm of excavation.
- Remove all of the remaining rotten timber core. Treat remaining timber with borate rod and copper naphthenate from QPL.
- Place HSS round tube, Bottom of round tube shall be a minimum of 2'-0" below final ground level.
- Fill voids with high early strength concrete. Use steel rod to ensure proper consolidation. Leave a gap to facilitate welding of cover plate.
- Field weld cover plate in place.
- Use grout vents to complete the pour. Wait for concrete strength to reach 2500 psi before preloading pile.
- Install square HSS steel pile to existing cap as shown.
- Set 20 ton hydraulic jack between bearing plates and preload the pile as shown in pile preload table. Lock out jack at desired preload.
- Field measure, cut, and weld in place channel shims. Ensure tight fit with good bearing.
- Unload and remove hydraulic jack.
- Field weld 3/8" shim plates. Plates shall be same height as channel shims.
- Backfill hole to existing ground level. Bottom of HSS round steel tube shall be at least 2'-0" below final ground elevation.

Preload Table			
Bent No.	Pile No.	(lbs)	(psi)



DETAIL A



SECTION B - B

Repair is intended for locations where clearance from bottom of cap to existing ground line are 2'-0" or less and site condistions restrict excavation depths required for standard Timber Pile Repair.

The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.



OREGON DEPARTMENT OF TRANSPORTATION
TECHNICAL SERVICES
DETAILS

LOW CLEARANCE TIMBER
PILE REPAIR

DETAIL NO.
DET3580