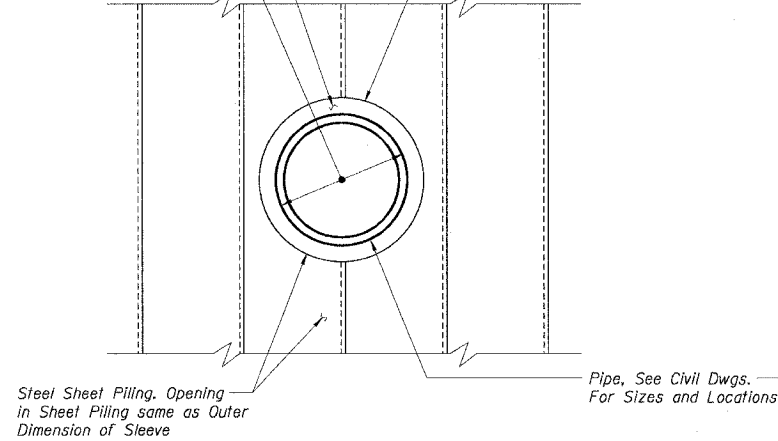


Seal around perimeter between Pipe Sleeve and Pipe with expanding polyurethane foam sealant after welding Sleeve to Steel Sheet Piling

Inside Dimensions of Sleeve=Pipe O.D. plus 6" Min. Sleeve wall thickness= $\frac{5}{16}$ " for Pipes less than 24" and $\frac{1}{2}$ " for Pipes equal to or greater than 24"

Standard Steel Pipe Sleeve with Neoprene Rubber Casing Seal each end



ELEVATION

Seal around perimeter between Pipe Sleeve and Pipe with expanding polyurethane foam sealant after welding Sleeve to Steel Sheet Piling

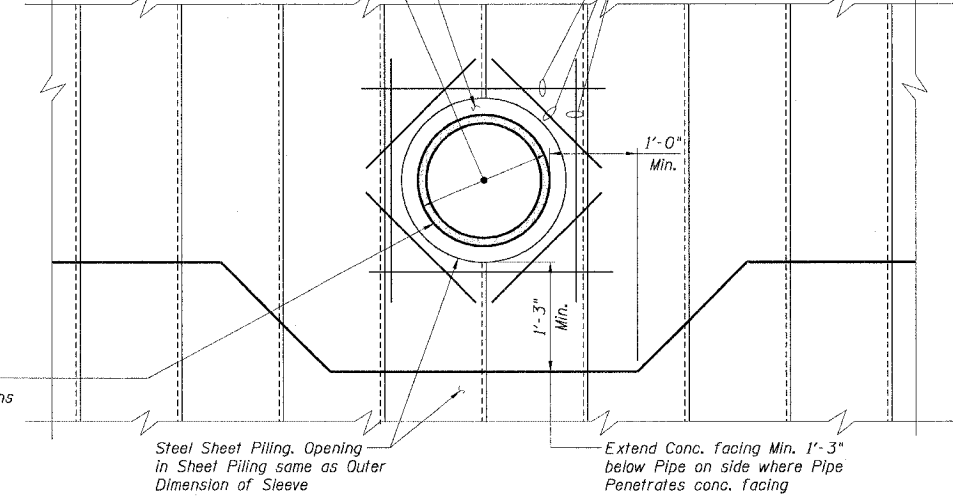
Inside Dimensions of Sleeve=Pipe O.D. plus 6" Min. Sleeve wall thickness= $\frac{5}{16}$ " for Pipes less than 24" and $\frac{1}{2}$ " for Pipes equal to or greater than 24"

#4 @ 12"x Sleeve O.D. Plus 2'-0" Ctr. on Sleeve (Typ. Diag. Horz. and Vert. Add) Cut in Field

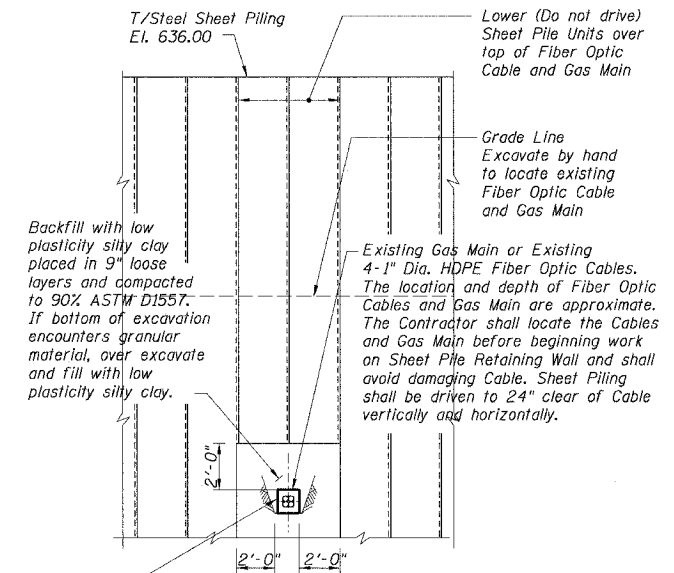
1'-0" Min.

1'-3" Min.

Extend Conc. facing Min. 1'-3" below Pipe on side where Pipe Penetrates conc. facing



ELEVATION



ELEVATION

Backfill with low plasticity silt clay placed in 9" loose layers and compacted to 90% ASTM D1557. If bottom of excavation encounters granular material, over excavate and fill with low plasticity silt clay.

Lower (Do not drive) Sheet Pile Units over top of Fiber Optic Cable and Gas Main

Grade Line Excavate by hand to locate existing Fiber Optic Cable and Gas Main

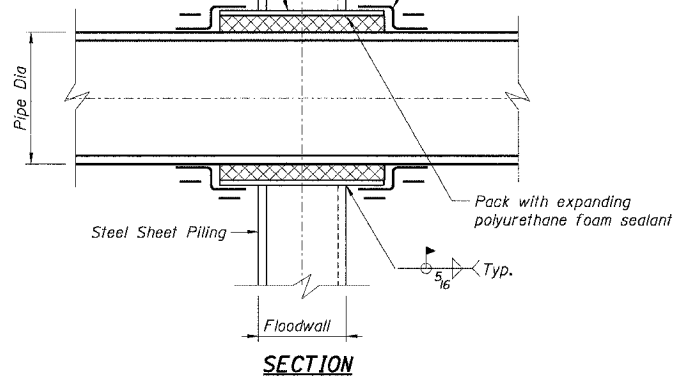
Existing Gas Main or Existing 4-1" Dia. HDPE Fiber Optic Cables. The location and depth of Fiber Optic Cables and Gas Main are approximate. The Contractor shall locate the Cables and Gas Main before beginning work on Sheet Pile Retaining Wall and shall avoid damaging Cable. Sheet Piling shall be driven to 24" clear of Cable vertically and horizontally.

Encase existing Gas Main and Fiber Optic Cables with minimum 8" of concrete on all 4 sides. Extend concrete encasement 18" beyond face of Steel Sheet Piling each side prior to driving sheet piling Reinforce Encasement with 4-#5, 1 each corner and #3 @ 6" U bars in paired (□). Cut and bend reinf. in field.

EXISTING GAS MAIN AND FIBER OPTIC CABLE PENETRATION THRU STEEL SHEET PILING

Standard Steel Pipe Sleeve. Burn hole in Sheet Piling to pass Sleeve and Weld Sleeve to Sheet Piling for Watertight Seal. Length of Sleeve to accommodate Neoprene Casing Seal. Sleeve may be provided in halves and continuously butt welded

Neoprene Rubber Sleeve type Casing Seal with Stainless Steel bands and Clamps by Pipeline Seal and Insulator Co. or Approved equal

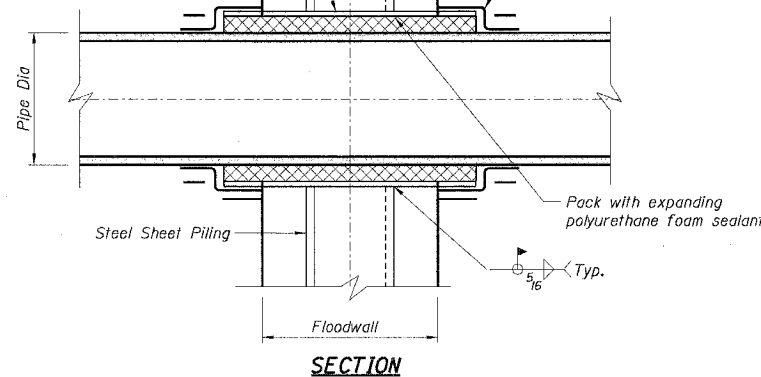


SECTION

TYPICAL UTILITY PIPE PENETRATION THROUGH STEEL SHEET PILING

Standard Steel Pipe Sleeve. Burn hole in Sheet Piling to pass Sleeve and Weld Sleeve to Sheet Piling for Watertight Seal. Length of Sleeve to accommodate Neoprene Casing Seal. Sleeve may be provided in halves and continuously butt welded

Neoprene Rubber Sleeve type Casing Seal with Stainless Steel bands and Clamps by Pipeline Seal and Insulator Co. or Approved equal



SECTION

TYPICAL UTILITY PIPE PENETRATION THROUGH CONCRETE FACED STEEL SHEET PILING

NOTES:

- Utility Pipe Penetration cost shall be included in the Pay Item for Steel Sheet Piling.

REVISION	
DATE	DESCRIPTION

PLANS PREPARED BY:

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SCALE: NONE

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