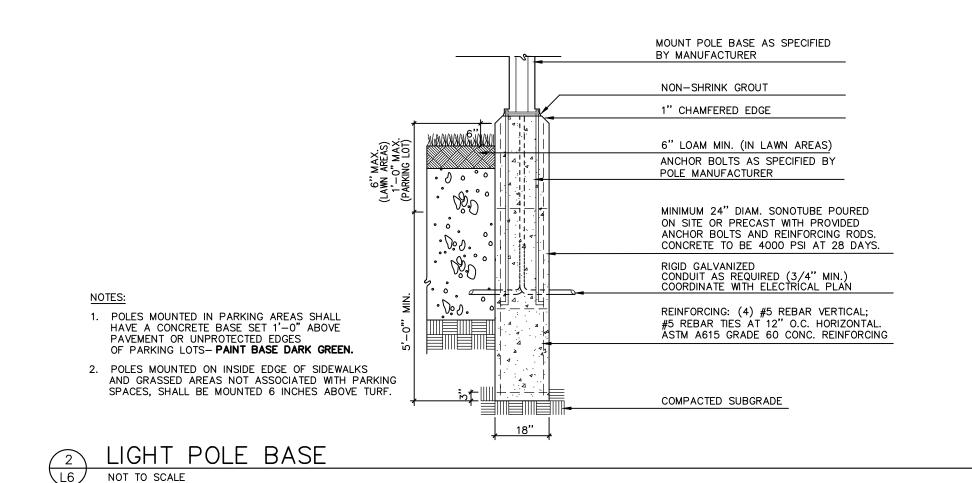
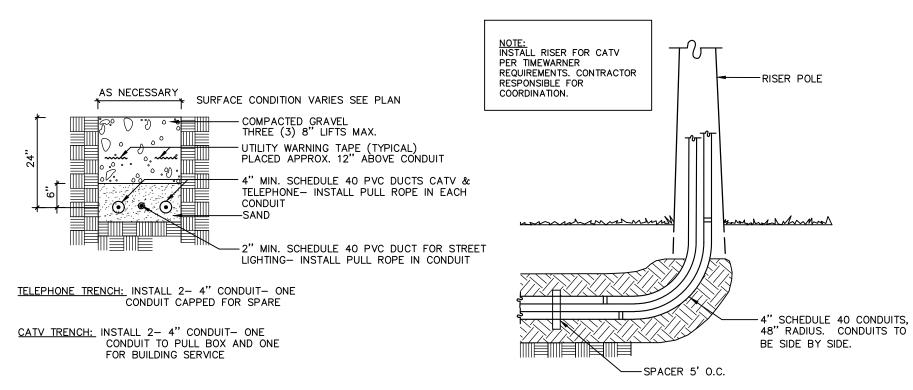


REDI-ROCK RETAINING WALL WITH GUARDRAIL

NOT TO SCALE

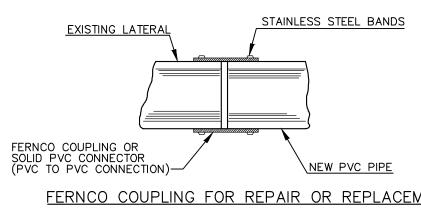


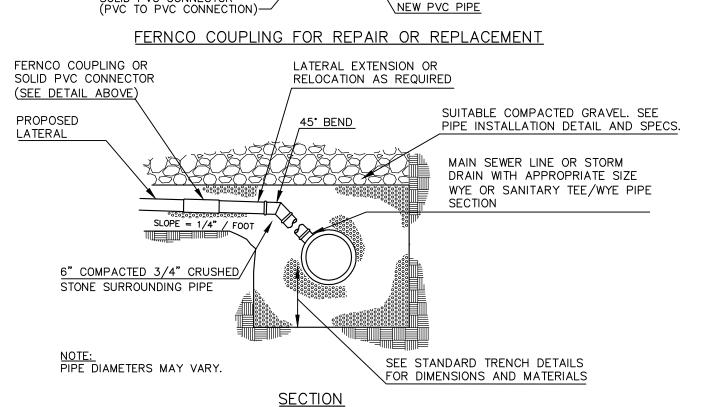


TELEPHONE / CABLE T.V. & STREET LIGHTING TRENCH NOT TO SCALE

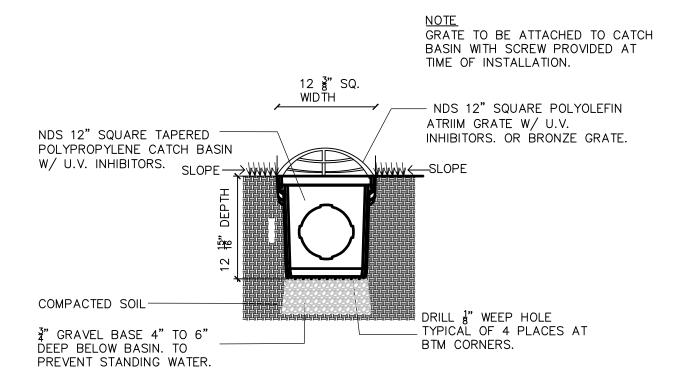
NOTES:

1. LOCATIONS AND ELEVATIONS OF STUBS ON THE PLANS ARE TO BE CONSIDERED AS APPROXIMATE AND MAY BE ADJUSTED AS DIRECTED TO SUIT FIELD CONDITIONS. 2. HOUSE CONNECTIONS AND CATCH BASIN CONNECTIONS TO BE MAIN LINE OF THE SEWER, SHALL CONSIST OF AN APPROPRIATE "Y" BRANCH CONNECTION AS SHOWN ON THE PLANS, OR AS DIRECTED. ACTUAL "Y" LOCATIONS FOR THE HOUSE CONNECTIONS AND CATCH BASIN CONNECTIONS SHALL BE DETERMINED DURING CONSTRUCTION. THE CONTRACTOR SHALL KEEP A COMPLETE RECORD OF "Y" LOCATIONS WHICH SHALL BE GIVEN TO THE CITY OF PORTLAND UPON COMPLETION OF THE CONTRACT. ALL PVC TO PVC COUPLING SHALL BE "SOLID PVC COUPLINGS".

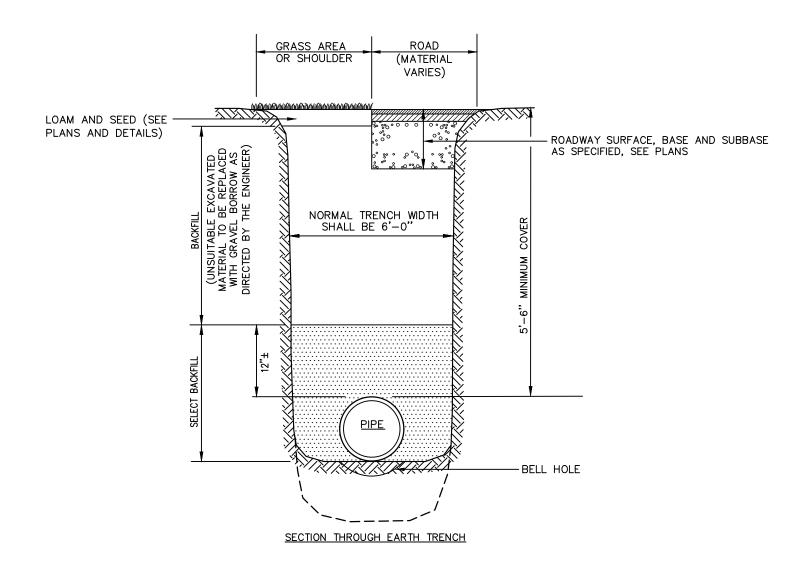




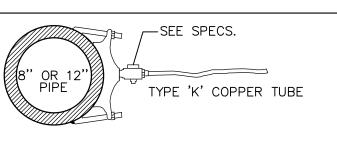
TYPICAL LATERAL WYE CONNECTION DETAIL



NDS 12" SQ. SHALLOW CATCHBASIN

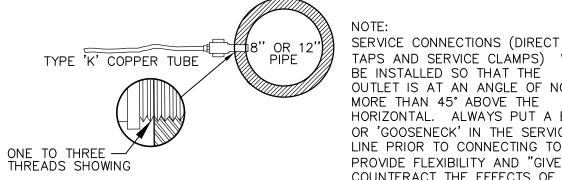


PORTLAND WATER DISTRICT PIPE TRENCH DETAIL



SERVICE SADDLE

(1-1/2" & 2" C.C. OR IRON PIPE THREAD)

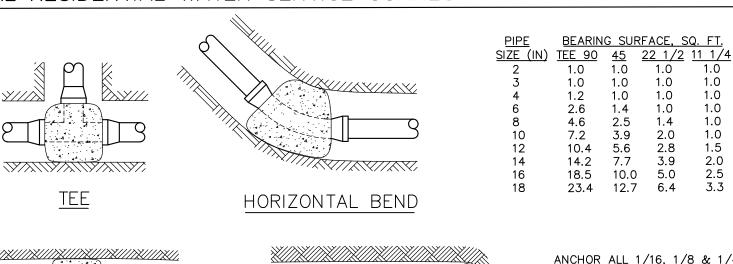


(3/4" AND 1" C.C. THREAD)

TAPS AND SERVICE CLAMPS) WILL BE INSTALLED SO THAT THE OUTLET IS AT AN ANGLE OF NOT MORE THAN 45° ABOVE THE OR 'GOOSENECK' IN THE SERVICE LINE PRIOR TO CONNECTING TO PROVIDE FLEXIBILITY AND "GIVE" TO COUNTERACT THE EFFECTS OF A LOAD DUE TO SETTLEMENT OR EXPANSON AND/OR CONTRACTION

HORIZONTAL. ALWAYS PUT A BEND (SEE DETAILS).

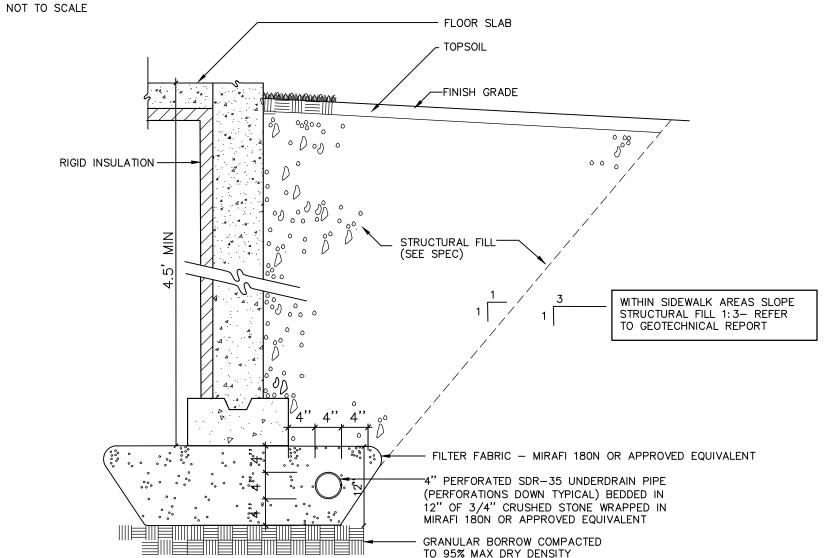
TYPICAL RESIDENTIAL WATER SERVICE CONNECTION NOT TO SCALE



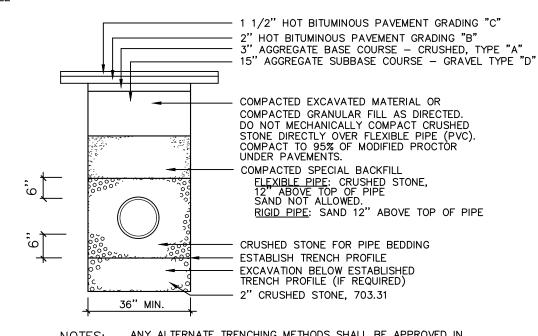
PLUG REDUCER

ANCHOR ALL 1/16, 1/8 & 1/4 BENDS ANCHOR ALL TEES W/ BRANCH LARGER THAN 6" PLACE CONCRETE AGAINST UNDISTURBED EARTH OR COMPACTED FILL

WATER MAIN ANCORAGE DETAILS

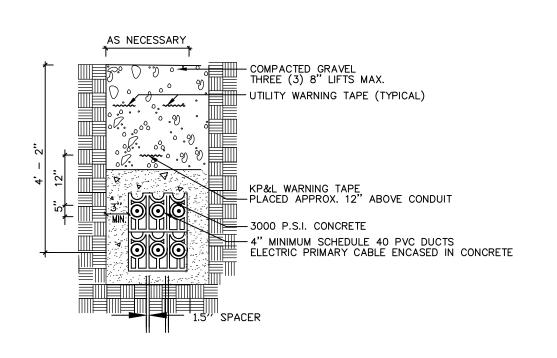


TO FOUNDATION UNDERDRAIN NOT TO SCALE



ANY ALTERNATE TRENCHING METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY. ALL TRENCH DIMENSIONS SHALL BE IN CONFORMANCE WITH THE CITY OF PORTLAND'S DETAIL FIGURE II-13 OF THE TECHNICAL AND DESIGN

PIPE TRENCH DETAIL NOT TO SCALE



ROBERT B. METCALF No. 1815 Prepared For: Owner:

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Date: APRIL 10, 2015

Bish

Issued For: **ISSUED FOR PERMITTING**

Revisions: Rev: 5/22/15 Rev: 6/22/15 Rev: 12/23/15 Rev: 02/05/16

conditions of approval

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SITE DETAILS

Scale:

AS SHOWN

North:

Sheet No.:

ELECTRIC TRENCH
NOT TO SCALE