INSTALL ALL ITEMS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ENGINEER SHALL BE CONTACTED DURING CONNECTION TO BRICK SEWER. IF SEWER IS FOUND TO BE IN VERY GOOD CONDITION BY ENGINEER, THEN ONLY CONCRETE CASING AROUND PROPOSED LATERAL AND STUB SHALL BE REQUIRED. BACKFILL PER CITY OF PORTLAND 6" THICK CONCRETE 4000 -TYPICAL PIPE TRENCH DETAIL PSI @28 DAYS EXISTING BRICK SEWER -- PROPOSED LATERAL, BRACED WITH CONCRETE AS NECESSARY FOR STABILITY. 6"X6" W2.9 X W2.9 — WELDED WIRE FABRIC MIN. 2" CONCRETE COVER ALL EXISTING SEWER BEDDING -SPRING LINE

CONNECTION TO BRICK SEWER

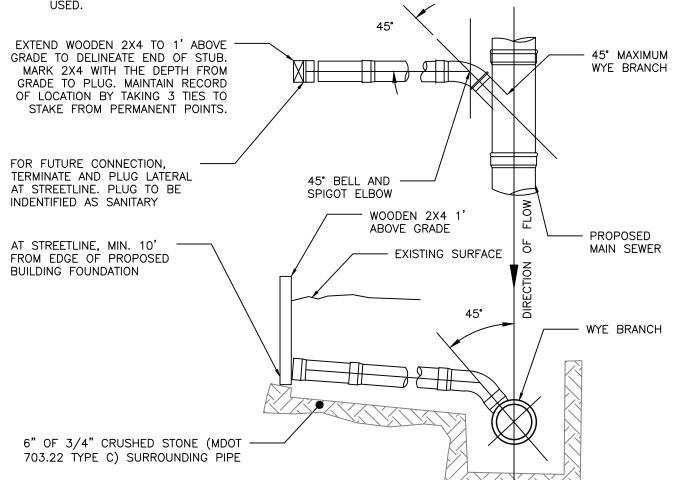
NOT TO SCALE

1. CONCRETE CASING AROUND PIPE SHALL CONTINUE LENGTHWISE FOR AT LEAST 4' OF PIPE, OR LENGTH OF PIPE DAMAGED DURING CONSTRUCTION, WHICHEVER IS GREATER.

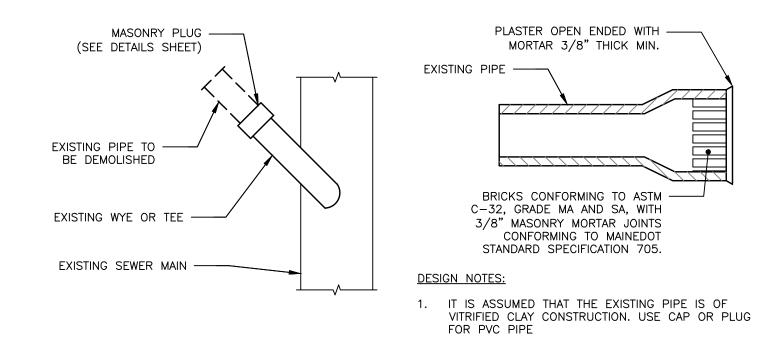
NOTES:

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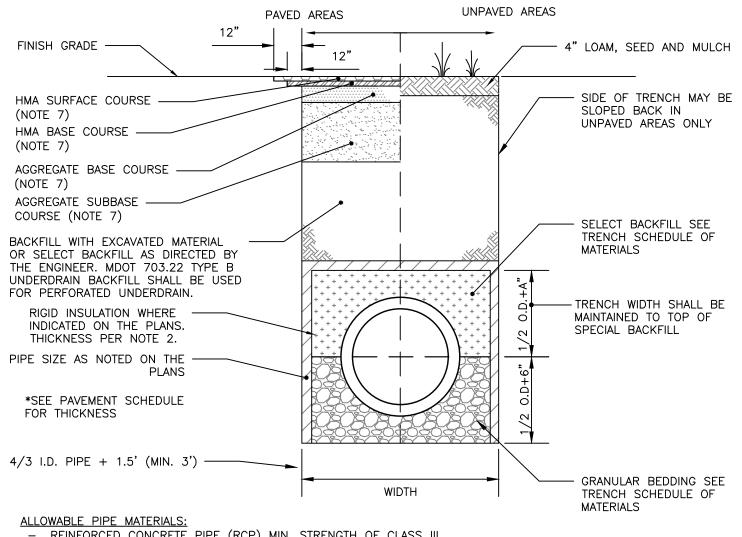
- 1. LOCATION WITH WARNING TAPE SHALL BE INSTALLED OVER CENTERLINE OF
- PIPE AT A MAXIMUM OF 24 INCHES BELOW FINISH GRADE. 2. SITE CONTRACTOR TO COORDINATE CONNECTION OF SEWER LATERAL TO HOUSEHOLD PLUMBING WITH ARCHITECTURAL CONTRACTOR
- 3. CONNECTION OF PROPOSED SEWER LATERAL TO HOUSEHOLD PLUMBING SHOULD INCORPORATE USE OF SIMILAR PIPE MATERIALS. IN THE CASE OF DISSIMILAR PIPES BEING USED, A FERNCO FLEXIBLE COUPLING SHALL BE



SEWER TEE/WYE CONNECTION DETAIL NOT TO SCALE



MASONRY PLUG DETAIL NOT TO SCALE



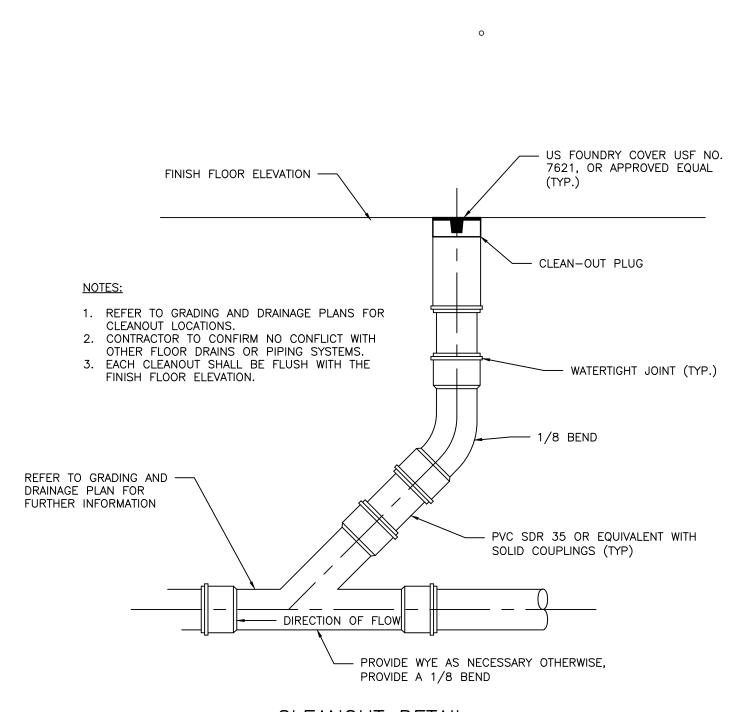
- REINFORCED CONCRETE PIPE (RCP) MIN. STRENGTH OF CLASS III

- PVC RING TYPE SEWER (SDR 35) OR EQUIVALENT, MIN PS-46 RATING - PVC RING TYPE SEWER PIPE MEÉTING ASTM F 789
- DUCTILE IRON PIPE (DIP)ADS N-12 HP TRIPLE-WALL MIN PS-46 RATING - ADS SANITITE HP MIN. PS-46

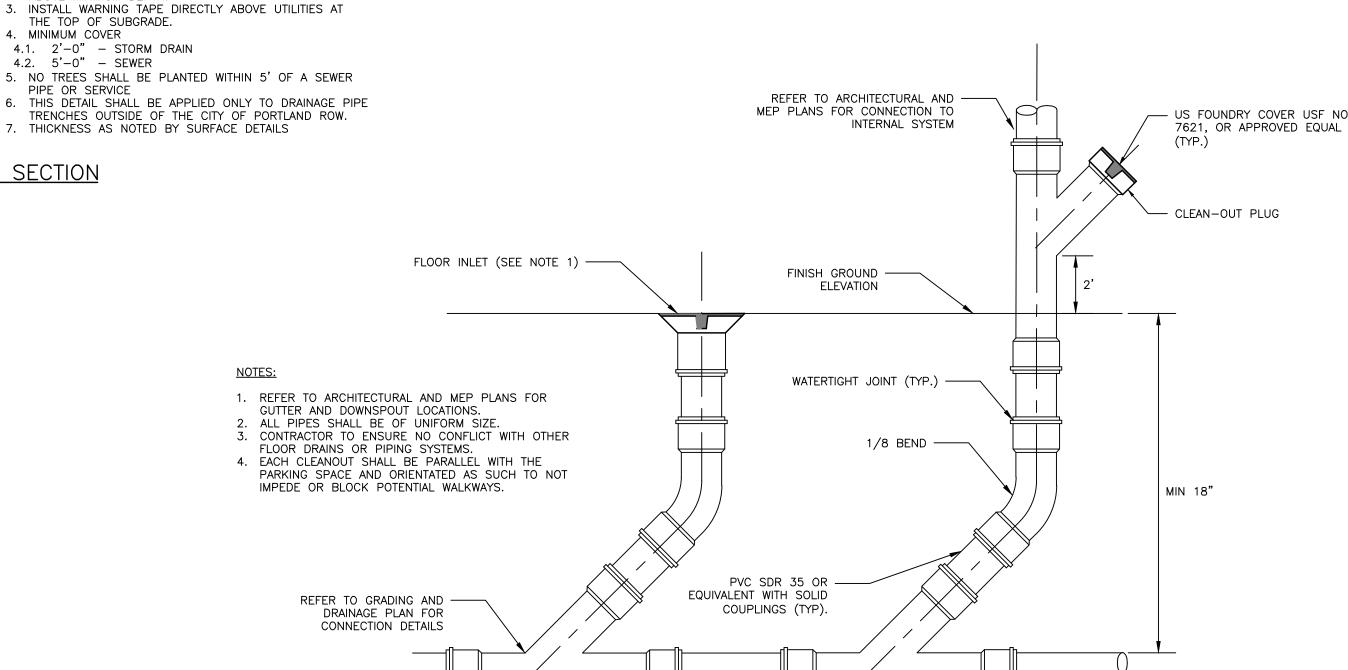
	SCHEDULE OF MATERIALS		
	TYPE OF PIPE	GRANULAR BEDDING	SELECT BACKFILL
	CMP DUCTILE IRON RCP	MDOT 703.22 TYPE B UD BACKFILL	MDOT 703.22 TYPE B UD BACKFILL
	PVC/HDPE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE	MDOT 703.22 TYPE B UD BACKFILL
	СМР	MDOT 703.22 TYPE C 3/4" CRUSHED STONE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE

- 1. BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. STORM DRAIN COVER BETWEEN 2' AND 3' SHALL INCLUDE 4" OF RIGID INSULATION. COVER BETWEEN 3' AND 4' SHALL INCLUDE 2' RIGID INSULATION. OTHER UTILITIES: ADD 2" OF RIGID INSULATION FOR EACH FOOT ABOVE MINIMUM DEPTH.
- THE TOP OF SUBGRADE. 4. MINIMUM COVER
- 4.1. 2'-0" STORM DRAIN 4.2. 5'-0" - SEWER 5. NO TREES SHALL BE PLANTED WITHIN 5' OF A SEWER
- PIPE OR SERVICE
- 6. THIS DETAIL SHALL BE APPLIED ONLY TO DRAINAGE PIPE TRENCHES OUTSIDE OF THE CITY OF PORTLAND ROW. 7. THICKNESS AS NOTED BY SURFACE DETAILS

STORM DRAIN AND SEWER TYPICAL TRENCH SECTION NOT TO SCALE



CLEANOUT DETAIL NOT TO SCALE



SEE MANHOLE DETAIL FOR COVER -

PORTLAND CEMENT MORTAR -

INLET, SEE NOTE 5

3" GAS VENT, OR VENTED MANHOLE —

ALL PIPES TO HAVE A WATERTIGHT SEAL -

AND FRAME INFORMATION

(TYPE 2 CEMENT)

OIL CONTAINMENT

SAND CONTAINMENT

ECCENTRIC

SECTION

SECTION

4'-0" DIAMETER PRECAST OIL AND WATER SEPARATOR

NOT TO SCALE

FLOOR DOWNSPOUT WITH CLEANOUT AND FLOOR DRAIN CONNECTION DETAIL NOT TO SCALE

- DIRECTION OF FLOW

PRELIMINARY NOT ISSUED FOR CONSTRUCTION

PROVIDE WYE AS NECESSARY. OTHERWISE,

PROVIDE A 1/8 BEND

VENT IN ACCORDANCE WITH THE PLUMBING CODE. PIPE OPENINGS CAST IN AS REQUIRED.
INLET AND OUTLET PIPE SHALL BE CONSTRUCTED REDEVELOPMENT DET STREET 61

ADJUST TO GRADE WITH BRICK WITH A MIN.

DESIGN LOAD FOR H-20 WHEEL LOAD.

OF MATERIALS SPECIFIED WITHIN CITY OF PORTLAND'S APPROVED SEWER PIPE MATERIALS.

— 12" THICK 3/4" CRUSHED STONE BASE

INLET AND OUTLET PIPE INVERT SHALL BE 3" SEPARATED UNLESS NOTED ON THE PLANS.

FOR CLARITY, SUMP DEPTH IS 6' BELOW OUTLET AN APPROVED EQUAL MAY BE SUBSTITUTED BY

OIL, SAND AND WATER SEPARATOR TO CONFORM TO CATCH BASIN DETAIL, EXCEPT AS EXPLICITLY

OF 3 COURSES AND A MAX. OF 8

C-32-63, GRADE MA AND SA).

— OUTLET, SEE NOTE 5

COURSES (ASTM SPEC. DESIGNATE ON

IDENTIFIED IN THIS DETAIL.

THE DESIGN ENGINEER.

- COMPACTED SUBGRADE

PRELIM. APP.

1074_CIV DESIGNED BY: DRAWN BY: CHECKED BY:

WILLIAM I SAVAGE

DRAWING NO.