

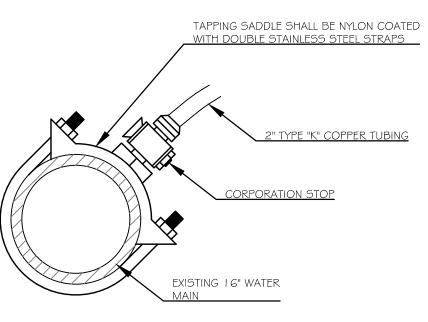
THRUST BLOCK PLACEMENT AT TEE(S)

CONCRETE THRUST BLOCK FOR — UNDISTURBED SIDE OF TRENCH —— SIZE REQ'D. SEE SCHEDULE SECTION

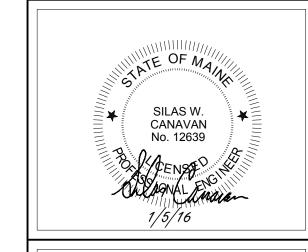
THRUST BLOCK PLACEMENT AT BEND(S)

			SIZE REQUIREMENTS FO		
		BEARING ON UNDISTURBED SOIL (SQUARE FT.)			
FITTINGS		90° BENDS	45° BENDS	TEES & PLUGS	HYDRANTS
PIPE SIZE	4"	2.0	1.0	1.0	N/A
	6"	3.0	2.0	2.0	6.0
	8"	5.0	3.0	4.0	N/A

THRUST BLOCK SCHEDULE



ALL WORK TO CONFORM TO THE PORTLAND WATER DISTRICT STANDARDS AND REQUIREMENTS.



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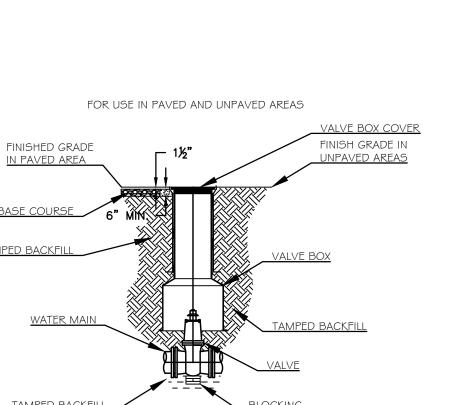
STANDARD CORPORATION STOP DETAIL

C3.0

NOT TO SCALE







NOTES:

I. ALL WORK TO CONFORM TO THE PORTLAND WATER DISTRICT

- STANDARDS AND REQUIREMENTS. 2. D.I.P. MAY BE USED FOR VALVE BOX EXTENSIONS.
- 3. VALVE BOX SHOULD NOT CONTACT WATER MAIN OR VALVE. 4. CONCRETE PROTECTOR RING SHALL BE USED IN ALL UNPAVED AREAS.

LAWN AREAS

VALVE AND VALVE BOX INSTALLATION DETAIL

— PAVING BASE AND TOP COURSES

COMPACTED GRANULAR BORROW (IN

PAVED AREAS, GRANULAR BORROW TO BE

PREVENT DIFFERENTIAL FROST MOVEMENT)

INSTALL CONTINUOUS METALLIC TAPE OVER SEWER

FORCEMAIN AND WATERLINE. OVERLAP 3' MIN.

MIXED WITH NATIVE SOIL MATERIAL TO

CONTRACTOR SHALL PROVIDE SHEETING

AND SHORING WHERE NECESSARY.

MAINTAIN TRENCH WIDTH TO TOP

OF COMPACTED COVER SAND

IF REQUIRED (SEE PLAN - WIDTH

AND THICKNESS DEPENDENT ON

3/4" DIAMETER CRUSHED STONE BEDDING MATERIAL FOR GRAVITY

SEWER AND STORMDRAIN; FOR

WATER AND FORCEMAIN PROVIDE

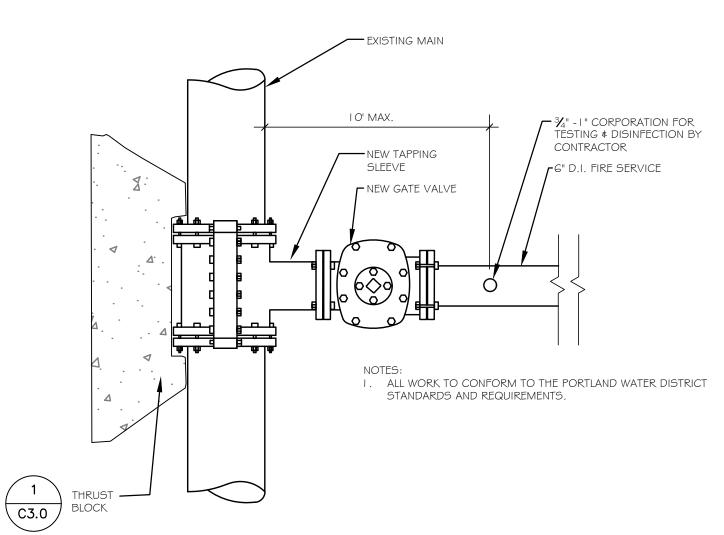
PIPE SIZE VARIES, SEE PLAN

COMPACTED COVER SAND RIGID POLYSTYRENE INSULATION

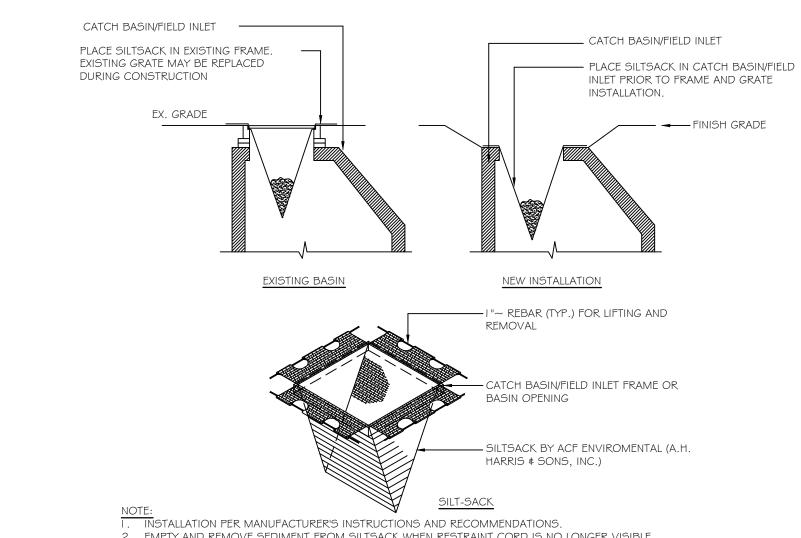
SITE CONDITIONS)

SAND BEDDING

LOAM \$ SEED





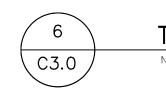


NOTE:

I. INSTALLATION PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

II. INSTALLATION PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. 2. EMPTY AND REMOVE SEDIMENT FROM SILTSACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE.

- CLEAN, RINSE AND REPLACE AS NEEDED. 3. CONTRACTOR SHALL INSPECT CATCH BASIN PROTECTION AFTER EACH MAJOR STORM EVENT AND CLEAN SILT AS NEEDED. 4. ROUND SILT-SACKS SHALL BE USED FOR ROUND CATCH BASIN GRATES.
- CATCH BASIN PROTECTION DETAIL



TYPICAL PIPE TRENCH INSTALLATION

TYPICAL ROAD REPAIR DETAIL NOT TO SCALE

DEPTH OF BITUMINOUS PAVEMENT AND AGGREGATE COURSES SHALL BE

ANY ALTERNATE TRENCHING OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY OF PORTLAND, DEPARTMENT OF PUBLIC SERVICES.

PAVED AREAS UNPAVED AREAS

----- 4" LOAM AND SEED

DETERMINED BY STREET CLASSIFICATION.

AGGREGATE SUBBASE COURSE - GRAVEL, TYPE "D"

HOT BITUMINOUS PAVEMENT GRADING "B"

SEE DETAIL

C3.0

CURB REPLACEMENT DETAIL

AGGREGATE BASE COURSE - CRUSHED, TYPE "B"

HOT BITUMINOUS PAVEMENT GRADING "C" -

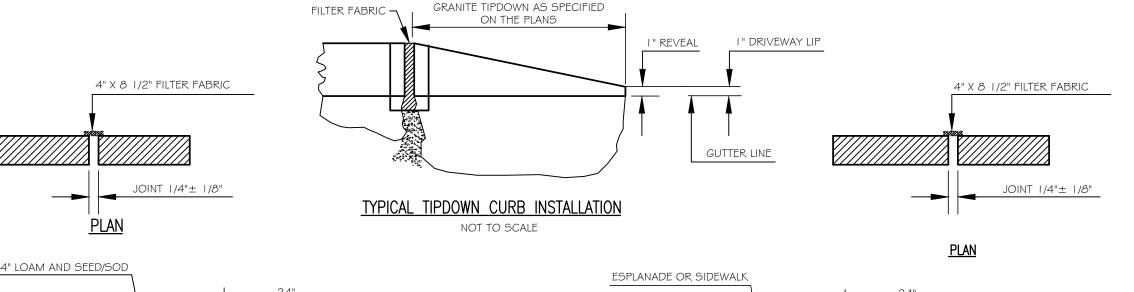
GRIND TO PROPER DEPTH ----

HALF OF MAX. PAYMENT WIDTH

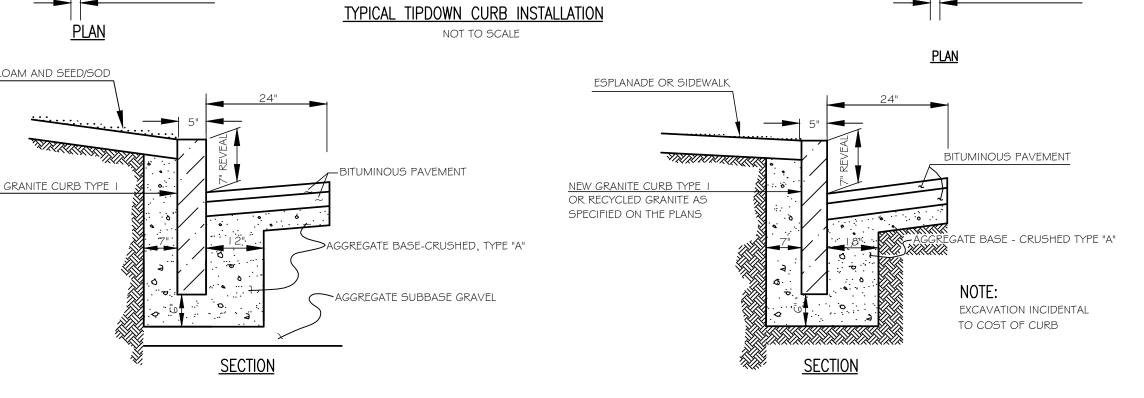
COMMON BACKFILL FROM TRENCH EXCAVATION (INCIDENTAL) OR GRANULAR BORROW (IF ORDERED)

PLUS 12" FOR TRENCH

PAVEMENT REPLACEMENT



4' MIN TO 7' MAX.



TYPICAL INSTALLATION OF CURB NOT TO SCALE

HALL PATHWAY PAVER BRICK. - BRICKS LAID FLAT REPAIR /MAINTENANCE TO EXISTING BRICK SIDEWALKS: VERMONT PAVER; SUPPLIED BY GAGNE AND SONS. 7" REVEAL SPECIFICATION NUMBER: "VERMONT BACKER BRICK", ITEM NUMBER # VBBB - FINISHED STREET GRADE -GRANITE CURB WIDTH VARIES - BORDER BRICK COURSE SET IN WET CEMENT (MATCH EXISTING) MORTAR, OR USE APPROVED EDGE RAIL (TYP.)

- 10" AGGREGATE BASE COURSE, TYPE "B" GRAVEL

- 1" DRY SAND-CEMENT MIX (6:1) FOR BASE

- CLEAN SAND SWEPT INTO JOINTS

- 2" HOT BITUMINOUS PAVEMENT, GRADING "B" (19 mm)

C3.0

BRICK SIDEWALK WITH BITUMINOUS BASE

NOT TO SCALE C3.0

GRANITE CURB INSTALLATION DETAIL

INSTALLATION OF CURB

NOT TO SCALE

Rev. Date Description Drawn Check 1 11/3/15 Site Plan Review
2 1/5/16 Revised Per City Comments SWC NGC SWC NGC Sheet Title: Details (Sheet 1 of 2)

Simple

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Job No.: 310 Sheet No.: Date: Nov. 3, 2015 N.T.S. Scale: SWC

NGC Checked:

\ C3.0 ∫

TYPICAL PIPE TRENCHING DETAIL

MAX. WIDTH IS PIPE

DIA. PLUS 24" BUT
NOT LESS THAN 36"

NOT TO SCALE

PAVED AREAS

0...0

C3.0 NOT TO SCALE

NOT TO SCALE

C4.0

BRICKS TO BE USED:

4"x8" PINE HALL PATHWAY PAVER BRICK; MFG. BY PINE HALL BRICK

CO., MADISON, NORTH CAROLINA.

LACHANCE ITEM # 193623, PINE