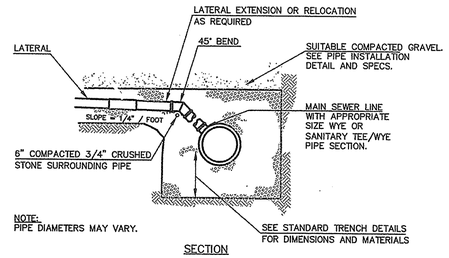
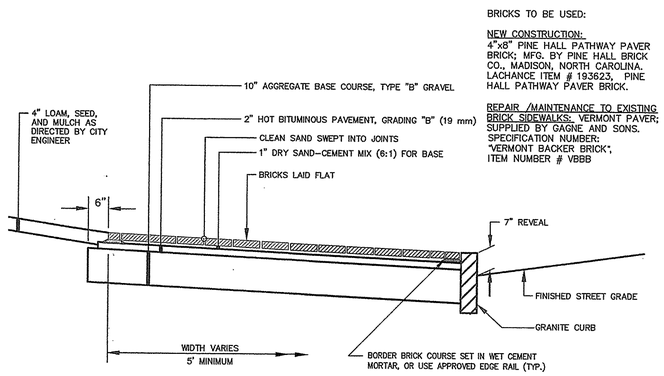


4 TYP EX. LATERAL CONNECTION (II–16)

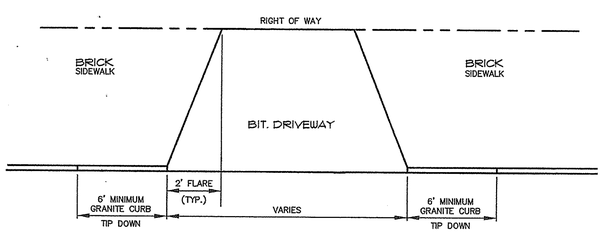
NOT TO SCALE



3 BRICK SIDEWALK WITH BITUMINOUS BASE (I–10)

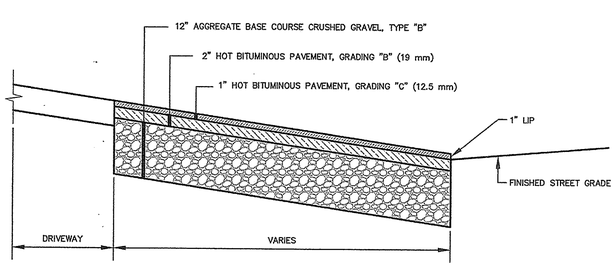
NOT TO SCALE

NOTE:
MATCH GRADE OF EXISTING DRIVEWAY AT R. O. W. LINE, EXCEPT WHEN DIRECTED OTHERWISE BY CITY ENGINEER.



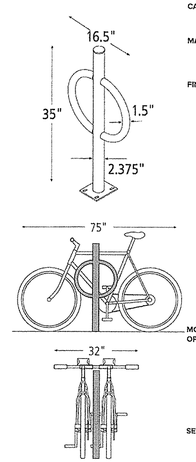
2 DRIVEWAY APRON LAYOUT (I–9)

NOT TO SCALE

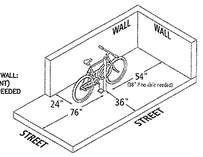


1 BITUMINOUS DRIVEWAY APRON (I–13)

NOT TO SCALE



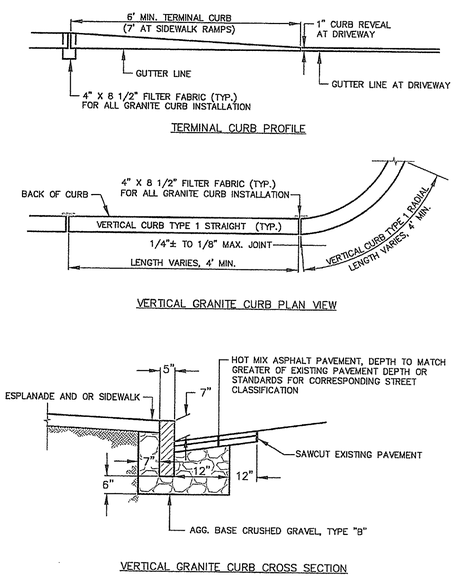
CAPACITY	2 Bikes
MATERIALS	Centerbeam: 2" schedule 40 pipe (2.375" OD) Ring: 1.5" OD 11 gauge tube
FINISHES	☐ **Galvanized** An after fabrication hot dipped galvanized finish is our standard option. ☐ **Powder Coat** Our powder coat finish assures a high level of adhesion and durability by following these steps: 1. Sandblast 2. Epoxy primer electrostatically applied 3. Final thick TGIC polyester powder coat ☐ **Thermoplastic** In addition to an increased thickness (8-10mils), the thermoplastic finish covers a galvanized layer and offers superior impact resistance over powder coating. ☐ **PVC Dip** (plastisol) Other colors available by special order (minimum orders apply) ☐ **Stainless** Stainless Steel: 304 grade stainless steel material finished in either a high polished shine or a satin finish.
MOUNT OPTIONS	☐ **In-ground** In ground mount is embedded into concrete base. Specify in ground mount for this option. ☐ **Surface** Foot Mount has a5"x6"x.25" foot with four anchors per foot. Specify foot mount for this option.
SETBACKS	FOR RACKS SET PARALLEL TO A WALL: MINIMUM: 12" RECOMMENDED: 24" FOR RACKS SET PERPENDICULAR TO A WALL: MINIMUM: 35" (CENTERLINE MEASUREMENT) RECOMMENDED: 38" (54" IF AISLE IS NEEDED BETWEEN BIKE AND WALL) DISTANCE BETWEEN RACKS: MINIMUM: 24" RECOMMENDED: 38" STREET SETBACKS: MINIMUM: 36"



DERO BIKE HITCH AS MANUFACTURED BY DERO BIKE RACKS

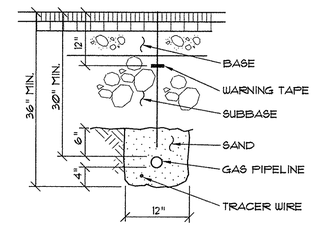
5 BICYCLE RACK SPECIFICATION – BIKE HITCH (I–33a)

NOT TO SCALE



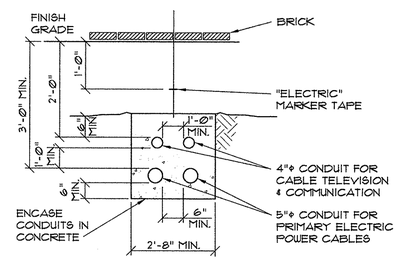
6 VERTICAL GRANITE CURB INSTALLATION IN EXISTING STREET (I–17)

NOT TO SCALE



10 GAS PIPING TRENCH SECTION

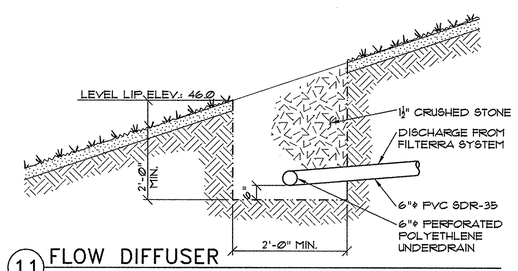
NOT TO SCALE



NOTES:
1. INSTALLATION SHALL NOT ALLOW INTER-TWINING OF CABLES.
2. PROVIDE SCH. 40 PVC CONDUIT FULL LENGTH OF INSTALLATION.

9 CABLE TRENCH SECTION

NOT TO SCALE



11 FLOW DIFFUSER

NOT TO SCALE

UNDERGROUND UTILITIES WARNING TAPE

IDENTIFICATION TAPE TO BE INSTALLED ABOVE ALL NEW UNDERGROUND UTILITIES AND ABOVE ANY EXISTING UTILITIES THAT MAY BE EXPOSED BY THIS CONSTRUCTION.

DETECTABLE UNDERGROUND MARKING TAPE TO BE PERMANENT, BRIGHT-COLORED, CONTINUOUS-PRINTED PLASTICIZED ALUMINUM TAPE, INTENDED FOR DIRECT-BURIAL SERVICE NOT LESS THAN 3" WIDE x 5 MILS THICK. PROVIDE TAPE WITH BLACK PRINTING IDENTIFYING THE UTILITY. DETECTABLE WARNING TAPE REQUIRED OVER ALL WATER, SEWER, DRAINAGE, OR GAS UTILITIES. TAPE TO BE TERRA TAPE BY REEF INDUSTRIES, INC., www.reefindustries.com, OR EQUAL.

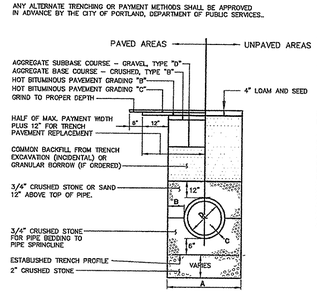
APWA UNIFORM COLOR CODE:

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER, IRRIGATION AND SLURRY LINES
GREEN	SEWERS AND DRAIN LINES

8 UNDERGROUND UTILITIES WARNING TAPE

NOTES:
DEPTH OF BITUMINOUS PAVEMENT AND AGGREGATE COURSES SHALL BE DETERMINED BY STREET CLASSIFICATION.

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



NOTES:
1. ALTERNATIVE CONSTRUCTION METHODS OR PAVMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY.
2. IN PAVED AREAS, DEPTH OF GRAVEL AND HOT MIX ASPHALT PAVEMENT SHALL MATCH THE GREATER OF EXISTING CONDITIONS OR THE REQUIREMENTS FOR THE CORRESPONDING STREET CLASSIFICATION.
3. DIMENSION B SHALL BE SUFFICIENT TO ALLOW CRUSHED STONE BEDDING TO BE PLACED AND COMPACTED UNDER THE HAUNCHES OF THE PIPE, BUT IN ALL CASES DIMENSION B SHALL BE AT LEAST 8".
4. DIMENSION A IS THE MAXIMUM WIDTH ALLOWED FOR CALCULATING PAY QUANTITIES UNDER GRANULAR BORROW, CRUSHED STONE, STRUCTURAL EARTH EXCAVATION, AND STRUCTURAL ROCK EXCAVATION. DIMENSION A SHALL BE BASED ON PIPE DIAMETER D, AS SET FORTH IN THE FOLLOWING TABLE.

PIPE DIAMETER, D (INCHES)	MAX. TRENCH WIDTH, A (FEET)
4	4.0
6	4.0
8	4.0
10	4.0
12	5.0
15	5.0
18	5.0
21	5.0
24	6.0
27	6.0
30	6.0
36	6.0
42	7.0
48	7.0

7 TYPICAL PIPE TRENCH INSTALLATION (11–12)

PINKHAM & GREER
CIVIL ENGINEERS
28 WARREN AVE., PORTLAND, ME. 04103
TEL: 207-781-5242 FAX: 207-781-4245

STATE OF MAINE
THOMAS GREER
No. 4206
LICENSED
PROFESSIONAL ENGINEER
8/8/16

REV.	DATE	DESCRIPTION

DAVID HARMON
8 CHASES LANE
SACO, MAINE

SCALE: AS SHOWN
DATE: AUGUST 5, 2016
PROJECT: 16143
DRN BY: JWG
DESG BY: TSG
CHK BY: TSG

5 UNIT BUILDING
180 WASHINGTON AVENUE
PORTLAND, MAINE

DETAILS

C2.2

MAP/LOT 10 / 11 F