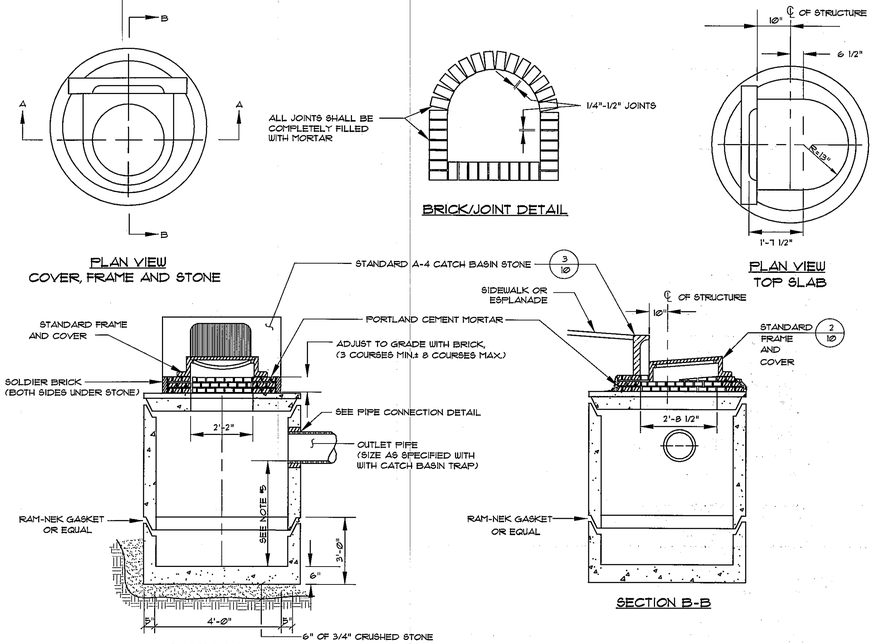
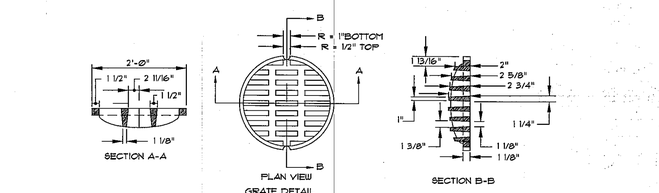
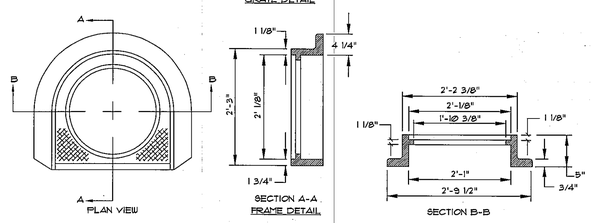


NOTES:

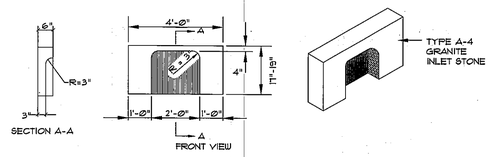
1. 4'-Ø" I.D. TYPICAL. SOME STRUCTURES MAY REQUIRE LARGER I.D. PROVIDE SHOP DRAWINGS FOR APPROVAL.
2. DRAINAGE STRUCTURES TO BE DESIGNED FOR H-20 LOADING.
3. PIPE SIZES AND INVERTS AS NOTED ON PLANS.
4. CATCH BASIN FRAME AND GRATE TO ACCOMMODATE 2' MIN. GRATE (H-20 LOADING & BICYCLE SAFE). PROVIDE SHOP DRAWINGS FOR ENGINEER'S / OWNER REPRESENTATIVE'S APPROVAL.
5. ALL CATCH BASIN SUMPS SHALL BE 3' IN DEPTH.

1 PRECAST CONCRETE CATCH BASIN - TYPE "E"
NOT TO SCALE

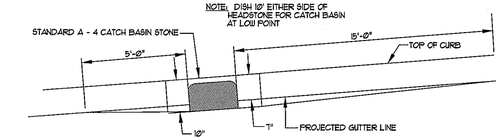




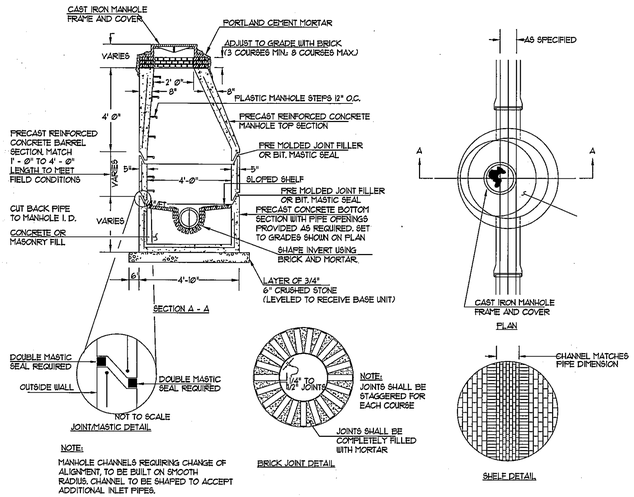
2 CATCH BASIN TYPE "D"-FRAME & COVER DETAIL
NOT TO SCALE



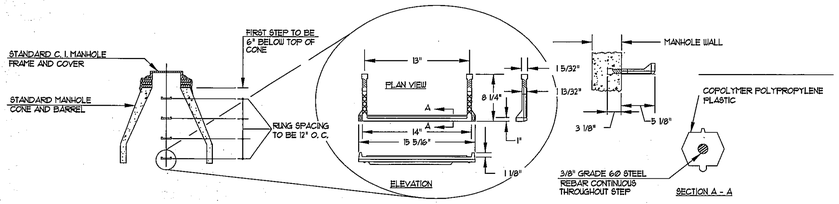
3 TYPE A-4 GRANITE CATCH BASIN INLET STONE DETAIL
NOT TO SCALE



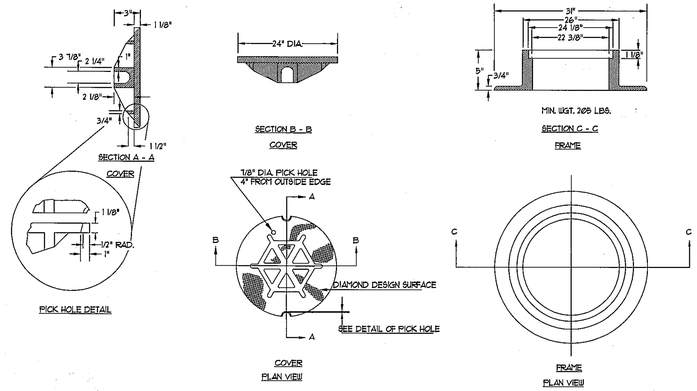
4 TYPICAL PAVEMENT GRADING ON SLOPES FOR CATCH BASIN AND INLET
NOT TO SCALE



5 PRECAST CONCRETE MANHOLE TYPE "A"
NOT TO SCALE



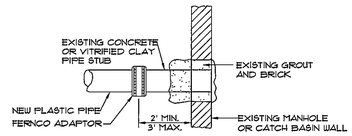
6 PLASTIC MANHOLE STEPS
NOT TO SCALE



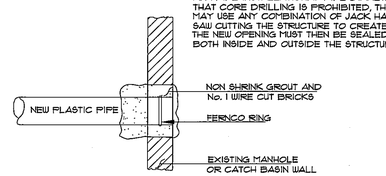
7 TYPE "A" CAST IRON MANHOLE COVER AND FRAME
NOT TO SCALE

GENERAL NOTES FOR MANHOLES AND CATCH BASINS

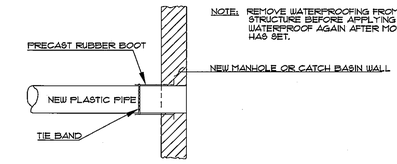
1. ALL CONCRETE SHALL BE CLASS "A" AND HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 lbs. PER SQ. INCH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
2. PRECAST REINFORCED CONE BARREL MANUFACTURED PER ASTM SPEC. C-478-61
3. SEWER BRICK SHALL CONFORM TO ASTM SPEC. DESIGNATE ON C-32-63, GRADE MA AND SA.
4. ALL MANHOLES SHALL HAVE A BITUMINOUS WATERPROOFING APPLIED TO THE EXTERIOR SURFACE. IF CONSTRUCTED OF BRICK MASONRY, SURFACE SHALL BE PLASTERED WITH A SMOOTH MORTAR FINISH 3/8" THICK. AFTER THE MORTAR HAS SET, THE SURFACE SHALL BE WATERPROOFED AS REQUIRED BY SUPPLEMENTAL SPECIFICATIONS SECTION 604.
5. CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-CLASS 35. ALL PARTS OF CASTINGS, EXCEPT FINISHED SURFACE, SHALL RECEIVE A COAT OF COAL TAR PITCH VARNISH OR ASPHALTUM PAINT WHICH SHALL BE SMOOTH AND TOUGH BUT NOT BRITTLE.
6. MANHOLES MAY BE CONSTRUCTED OF MASONRY, PRECAST REINFORCED CONCRETE, OR CAST IN PLACE.
7. ALL PRECAST MANHOLES AND CATCH BASINS SHALL BE IDENTIFIED BY STATION AND OFFSET, PAINTED ON THE SIDE OF THE STRUCTURE BY THE MANUFACTURER.
8. STORM AND SEWER MANHOLES SHALL HAVE SOLID COVERS WITH ONE DRILLED PICK HOLE.
9. EXISTING MANHOLES, CATCH BASINS, FRAMES, AND COVERS SHALL BE SALVAGED BY THE CONTRACTOR, AND SHALL REMAIN THE PROPERTY OF THE CITY OF PORTLAND.



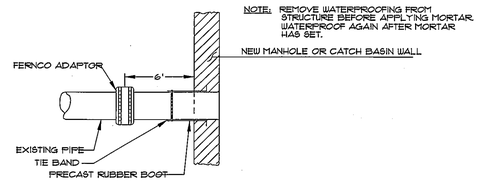
METHOD 4 - NEW PIPE TO EXISTING STRUCTURE STUB



METHOD 3 - NEW PIPE INTO EXISTING STRUCTURE

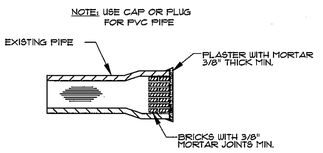


METHOD 2 - NEW CONSTRUCTION



METHOD 1 - EXISTING PIPE INTO NEW STRUCTURE

8 PLASTIC PIPE CONNECTION DETAIL
NOT TO SCALE



9 MASONRY PLUG DETAIL
NOT TO SCALE

STATE OF MAINE
JAMES R. HOUK
REG. NO. 9504
REGISTERED PROFESSIONAL ENGINEER

REV:	BY:	DATE:	STATUS:
B	JRS	09-05-12	REVISED PER CONDITIONS OF APPROVAL
A	JRS	05-11-12	ISSUED TO CITY FOR REVIEW

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

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Tel. 207-200-2100
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Lewiston, ME 04240
Tel. 207-783-5558

PROJECT NO.	FIELD BOOK	DESIGN	CHKD	DRAWN
05109	-	WTC	JRS	JRH

DETAILS
OF:
THE BAY HOUSE
112-113 NEWBURY STREET / 40 HANCOCK STREET
PORTLAND, MAINE
FOR:
THE VILLAGE AT OCEAN GATE, LLC
38 PAY STREET, SUITE 107B
BOSTON, MA 02118-4320

DATE	SCALE
05-10-12	AS NOTED

SHEET 14 OF 18

05109D.dwg, TAB1:D2