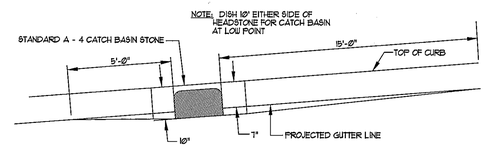
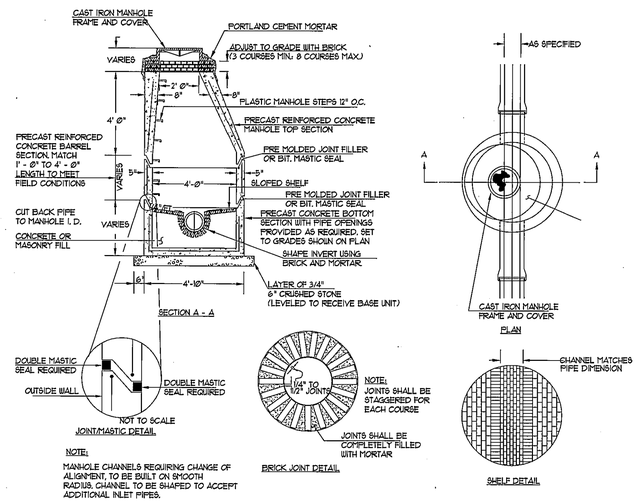


TYPICAL PAVEMENT GRADING ON SLOPES FOR CATCH BASIN AND INLET

NOT TO SCALE



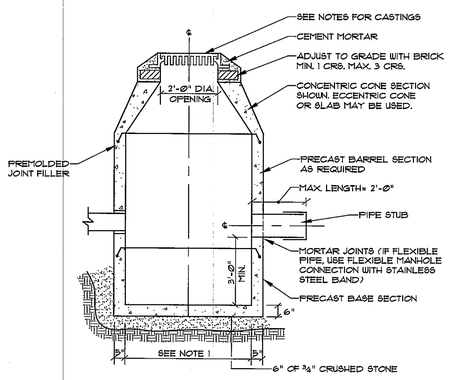
NOTE:
MANHOLE CHANNELS REQUIRING CHANGE OF ALIGNMENT, TO BE BUILT ON SMOOTH RADIUS. CHANNEL TO BE SHAPED TO ACCEPT ADDITIONAL INLET PIPES.

PRECAST CONCRETE MANHOLE TYPE "A"

NOT TO SCALE

GENERAL NOTES FOR MANHOLES AND CATCH BASINS

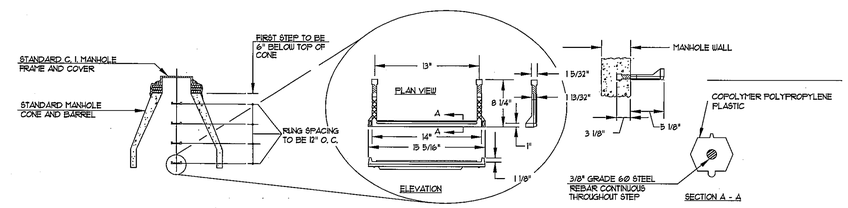
1. ALL CONCRETE SHALL BE CLASS "A" AND HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000P-lbs. PER SQ. INCH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
2. PRECAST REINFORCED CONE BARREL MANUFACTURED PER ASTM SPEC. C-478-67.
3. SEWER BRICK SHALL CONFORM TO ASTM SPEC. DESIGNATE ON C-32-63, GRADE 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 ½" 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. EXISTING MANHOLES, CATCH BASINS, FRAMES, AND COVERS SHALL BE SALVAGED BY THE CONTRACTOR, AND SHALL REMAIN THE PROPERTY OF THE CITY OF PORTLAND.
9. ALL WORK WITHIN THE STREET RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF PORTLAND TECHNICAL MANUAL STANDARDS.
10. ALL CATCH BASIN OUTLET PIPES SHALL BE INSTALLED WITH AN OIL AND FLOATABLES SEPARATOR. THE SEPARATOR SHALL BE THE "SNOUT" OR AN APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
11. MANHOLE FRAME, GRATE AND COVERS SHALL COMPLY WITH CITY OF PORTLAND TECHNICAL STANDARDS AND REQUIREMENTS.



NOTES:
1. 4'-0" I.D. TYPICAL. SOME STRUCTURES MAY REQUIRE LARGER I.D. PROVIDE SHOP DRAWINGS.
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 BE EAST JORDAN FOUNDRY 5250, OR APPROVED EQUAL.
5. DRAINAGE MANHOLE FRAME AND COVER TO BE EAST JORDAN FOUNDRY 1122, TYPE A, OR APPROVED EQUAL. COVER SHALL BE MARKED "DRAIN".
6. ALL DRAIN MANHOLES SHALL HAVE SHELVES AND CHANNELS INSTALLED.

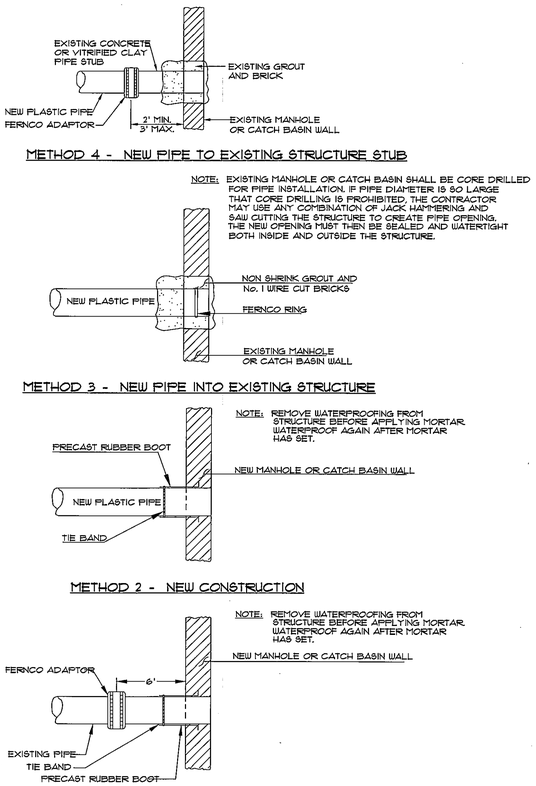
TYPICAL DRAINAGE MANHOLE/CATCH BASIN

NOT TO SCALE



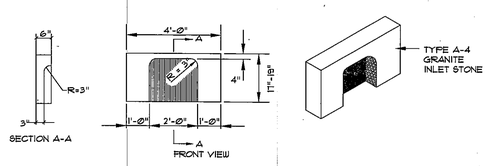
PLASTIC MANHOLE STEPS

NOT TO SCALE



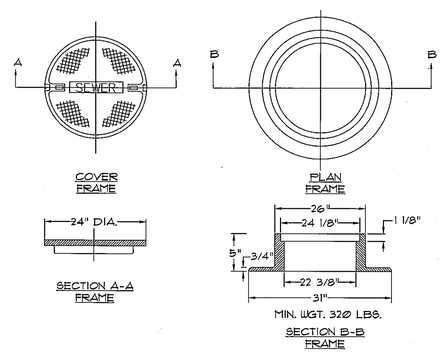
PLASTIC PIPE CONNECTION DETAIL

NOT TO SCALE



TYPE A-4 GRANITE CATCH BASIN INLET STONE DETAIL

(FOR EXISTING BASIN AT HANCOCK STREET)
NOT TO SCALE



NOTE:
1. ALL SANITARY AND STORMWATER/DRAIN MANHOLE COVERS SHALL BE 24" x 5". ALL SANITARY MANHOLE COVERS AND SHALL HAVE "SEWER" CAST INTO THE COVER. ALL STORMWATER/DRAIN MANHOLE COVERS SHALL HAVE "DRAIN" CAST INTO THE COVER.

CAST IRON MANHOLE COVER AND FRAME

NOT TO SCALE

Reviewed for Code Compliance
Inspection Services
Permit Required

Date: 10/20/14

STATE OF MAINE
OWENS A. McCULLOUGH
No. 7122
PROFESSIONAL ENGINEER
PRELIMINARY

REV:	BY:	DATE:	STATUS:
G	WTC	06-12-14	FOUNDATION PERMIT SET
F	WTC	01-07-13	CITY SUBMITTAL 7
E	WTC	10-15-13	CITY SUBMITTAL 6
D	WTC	10-03-13	CITY SUBMITTAL 5
C	WTC	09-17-13	CITY SUBMITTAL 4
B	WTC	09-03-13	CITY SUBMITTAL 3
A	WTC	07-29-13	SUBMIT SITE PLAN APPLICATION TO CITY

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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Auburn, ME 04210
Tel: 207-783-9595

PROJECT NO.	FIELD BOOK	DESIGN	CHKD	DRAWN
13251	-	WTC	WTC	MAL

13251D.dwg, TAB:D3

DETAILS
OF:
SEAPORT LOFTS
NEWBURY / HANCOCK STREET
PORTLAND, MAINE
FOR:
113 NEWBURY STREET, LLC
35 FAY STREET, SUITE 107B
BOSTON, MA 02116-4520

DATE	SCALE
07-26-13	AS SHOWN

SHEET 10 OF 12