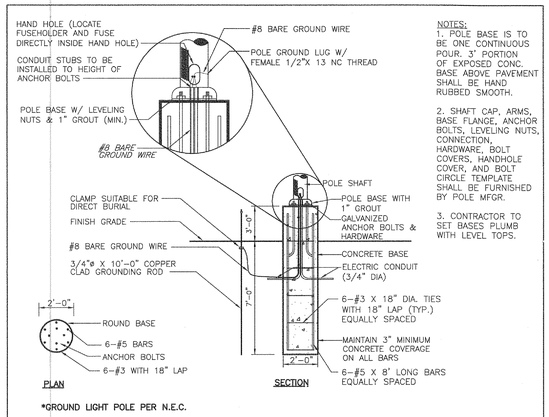
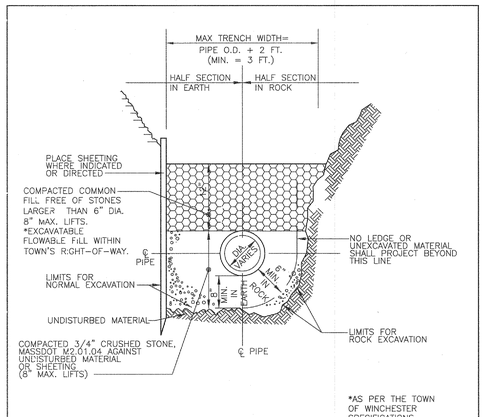


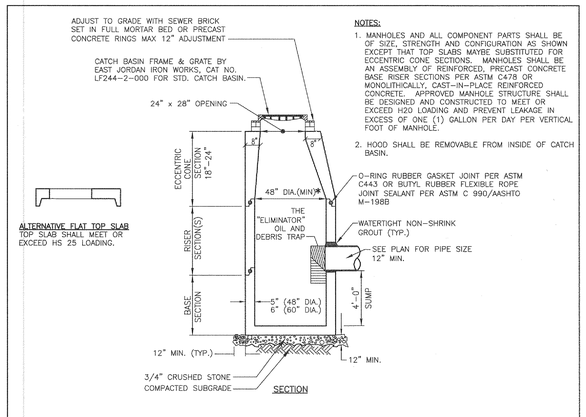
NOTES:
1. POLE BASE IS TO BE ONE CONTINUOUS POUR. 3' PORTION OF EXPOSED CONC. BASE ABOVE PAVEMENT SHALL BE HAND RUBBED SMOOTH.
2. SHAFT CAP, ARMS, BASE FLANGE, ANCHOR BOLTS, LEVELING NUTS, CONNECTION, HARDWARE, BOLT COVERS, HANDHOLE COVER, AND BOLT CIRCLE TEMPLATE SHALL BE FURNISHED BY POLE MFGR.
3. CONTRACTOR TO SET BASES PLUMB WITH LEVEL TOPS.

*GROUND LIGHT POLE PER N.E.C.

TYPICAL LIGHT POLE BASE DETAIL
SCALE: N.T.S.

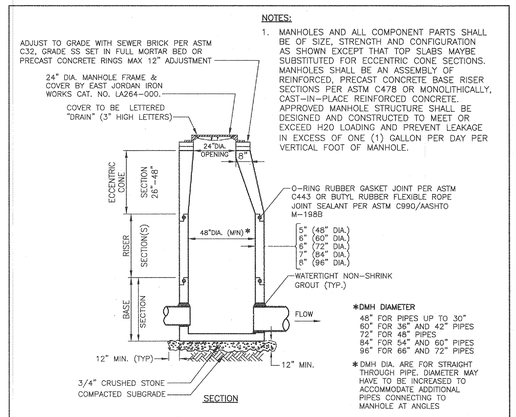


TYPICAL DRAIN TRENCH DETAIL
SCALE: N.T.S.



NOTES:
1. MANHOLES AND ALL COMPONENT PARTS SHALL BE OF SIZE, STRENGTH AND CONFIGURATION AS SHOWN EXCEPT THAT TOP SLABS MAYBE SUBSTITUTED FOR ECCENTRIC CONE SECTIONS. MANHOLES SHALL BE AN ASSEMBLY OF REINFORCED, PRECAST CONCRETE BASE RISER SECTIONS PER ASTM C478 OR MONOLITHICALLY, CAST-IN-PLACE REINFORCED CONCRETE. APPROVED MANHOLE STRUCTURE SHALL BE DESIGNED AND CONSTRUCTED TO MEET OR EXCEED H20 LOADING AND PREVENT LEAKAGE IN EXCESS OF ONE (1) GALLON PER DAY PER VERTICAL FOOT OF MANHOLE.
2. HOOD SHALL BE REMOVABLE FROM INSIDE OF CATCH BASIN.

CATCH BASIN WITH CORRUGATED PLASTIC HOOD
SCALE: N.T.S.



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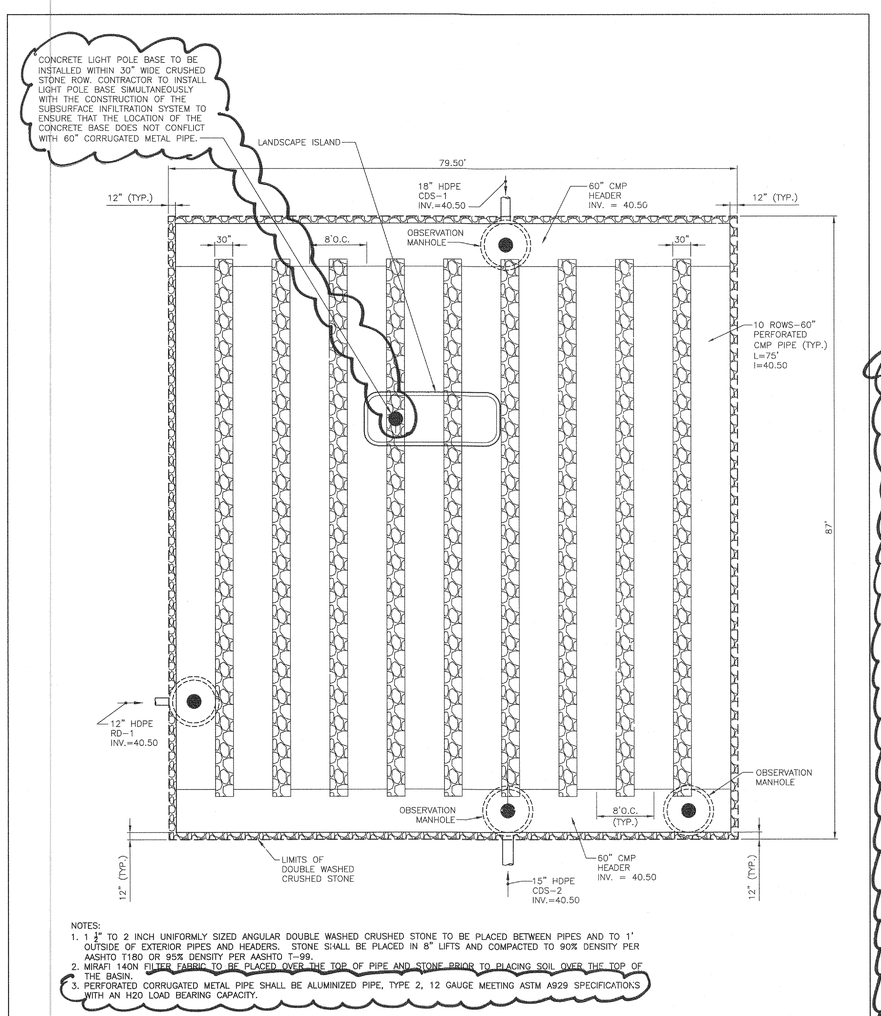
*DMH DIAMETER
48" FOR PIPES UP TO 30"
60" FOR 36" AND 42" PIPES
72" FOR 48" PIPES
84" FOR 54" AND 60" PIPES
96" FOR 66" AND 72" PIPES

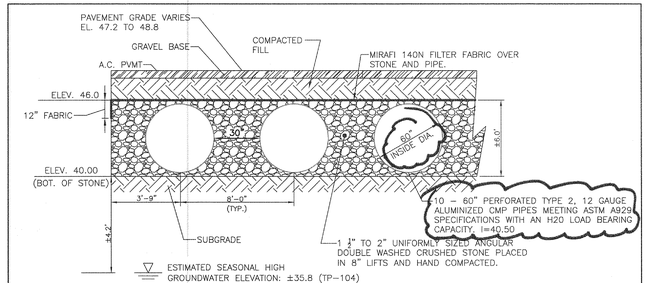
* DMH DIA. ARE FOR STRAIGHT THROUGH PIPE. DIAMETER MAY HAVE TO BE INCREASED TO ACCOMMODATE ADDITIONAL PIPES CONNECTING TO MANHOLE AT ANGLES

PRECAST CONC. DRAIN MANHOLE (DMH)
SCALE: N.T.S.

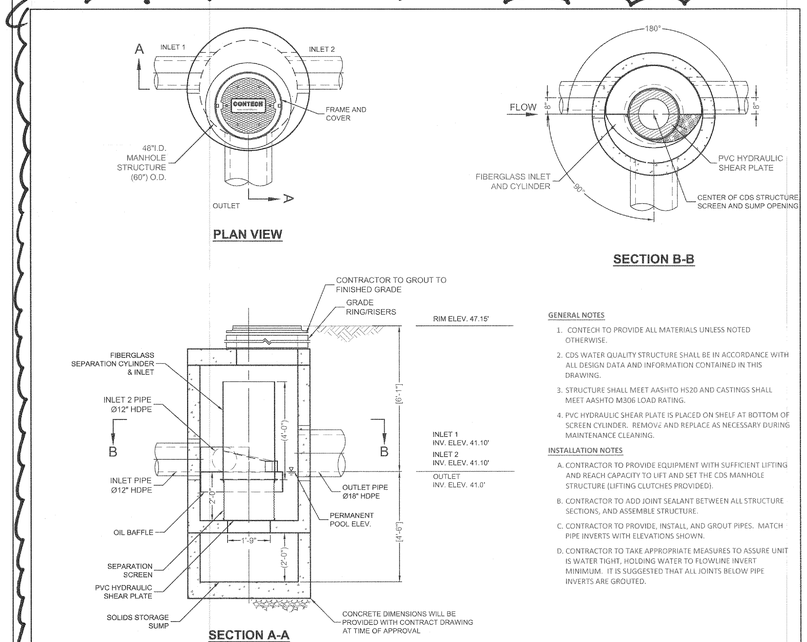


NOTES:
1. 1 1/2" TO 2 INCH UNIFORMLY SIZED ANGULAR DOUBLE WASHED CRUSHED STONE TO BE PLACED BETWEEN PIPES AND TO 1' OUTSIDE OF EXTERIOR PIPES AND HEADERS. STONE SHALL BE PLACED IN 8" LIFTS AND COMPACTED TO 90% DENSITY PER AASHTO T180 OR 95% DENSITY PER AASHTO T-99.
2. MIRAFI 140N FILTER FABRIC TO BE PLACED OVER THE TOP OF PIPE AND STONE PRIOR TO PLACING SOIL OVER THE TOP OF THE BASIN.
3. PERFORATED CORRUGATED METAL PIPE SHALL BE ALUMINIZED PIPE, TYPE 2, 12 GAUGE MEETING ASTM A929 SPECIFICATIONS WITH AN H20 LOAD BEARING CAPACITY.

SUBSURFACE INFILTRATION SYSTEM
SCALE: 1"=10'



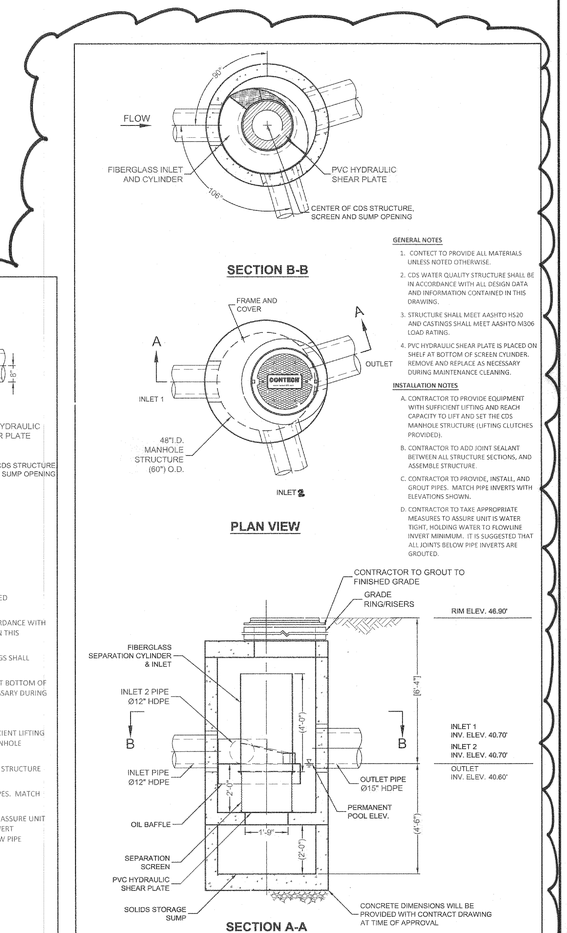
SUBSURFACE INFILTRATION SYSTEM SECTION A-A
SCALE: N.T.S.



GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
3. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING.
4. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
B. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
C. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CDS-1 (CDS2015-4-C)
SCALE: N.T.S.



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CDS-2 (CDS2015-4-C)
SCALE: N.T.S.

CVS pharmacy

11,955 SF PHARMACY WITH NO DRIVE THRU

STORE NUMBER: 10129
WASHINGTON STREET AND SWANTON STREET
WINCHESTER, MA
PROJECT TYPE: NEW CONSTRUCTION
DEAL TYPE: GROUND LEASE

CS PROJECT # 65348

CIVIL ENGINEER:
RJO'CONNELL & ASSOCIATES, INC.
CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS
80 MONTVALE AVE
STONEHAM, MA 02180
PHONE: 781-279-0180
FAX: 781-279-0173

DEVELOPER:
GBC
GERSHMAN BROWN CROWLEY INC.
GERSHMAN BROWN CROWLEY, INC.
14 BREAKNECK HILL RD, SUITE 101
LINCOLN, RI 02865
TEL (401) 721-1605
PROJECT CONTACT: PAUL BECK

SEAL:
COMMONWEALTH OF MASSACHUSETTS
BRIAN P. DUNDON
CIVIL
NO. 41505
REGISTERED PROFESSIONAL ENGINEER
6-20-13

REVISIONS:

REVISED PER TOWN COMMENTS	1/24/2013
SUBMIT TO ZBA FOR SITE PLAN APPROVED	2/15/2013
REVISED PER TOWN COMMENTS	5/06/2013
REVISED PER TOWN COMMENT LETTER	5/29/2013
REVISED PER ZBA COMMENTS FROM JUNE HEARING	6/20/2013

PROJECT MANAGER:	JSK
DRAWING BY:	KPM
REVIEWED BY:	JSK/MJW
DATE:	10/05/2012
JOB NUMBER:	11071

TITLE:
DRAINAGE DETAILS

SHEET NUMBER:
C-9

COMMENTS:
NOT FOR CONSTRUCTION

Drawing name: G:\CVS\Projects\MA\Winchester\Washington Street and Swanton\Main\Details\11071_C-9.dwg
Jun 20, 2013 - 14:03pm