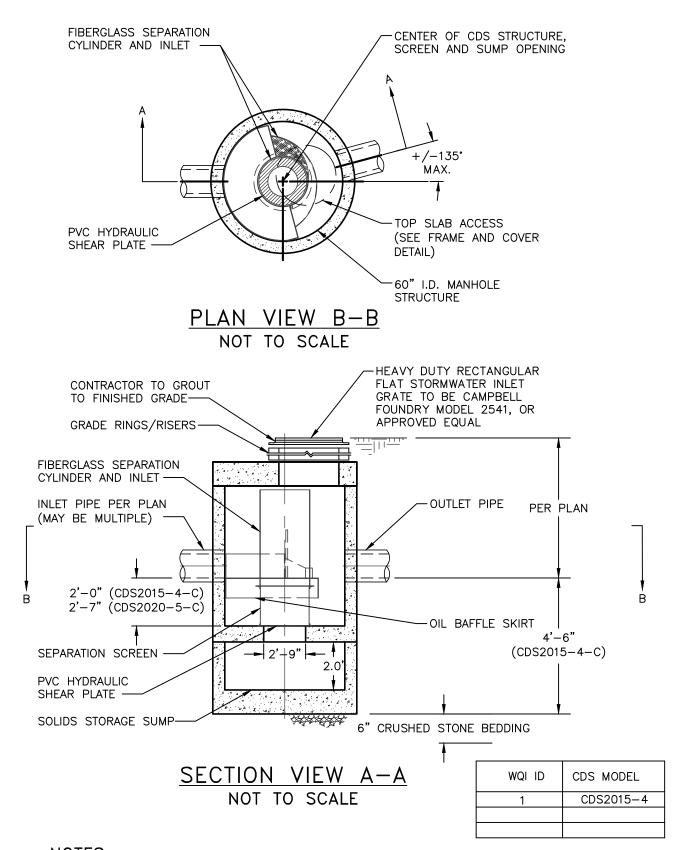


PRECAST CONCRETE CATCH BASIN WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.

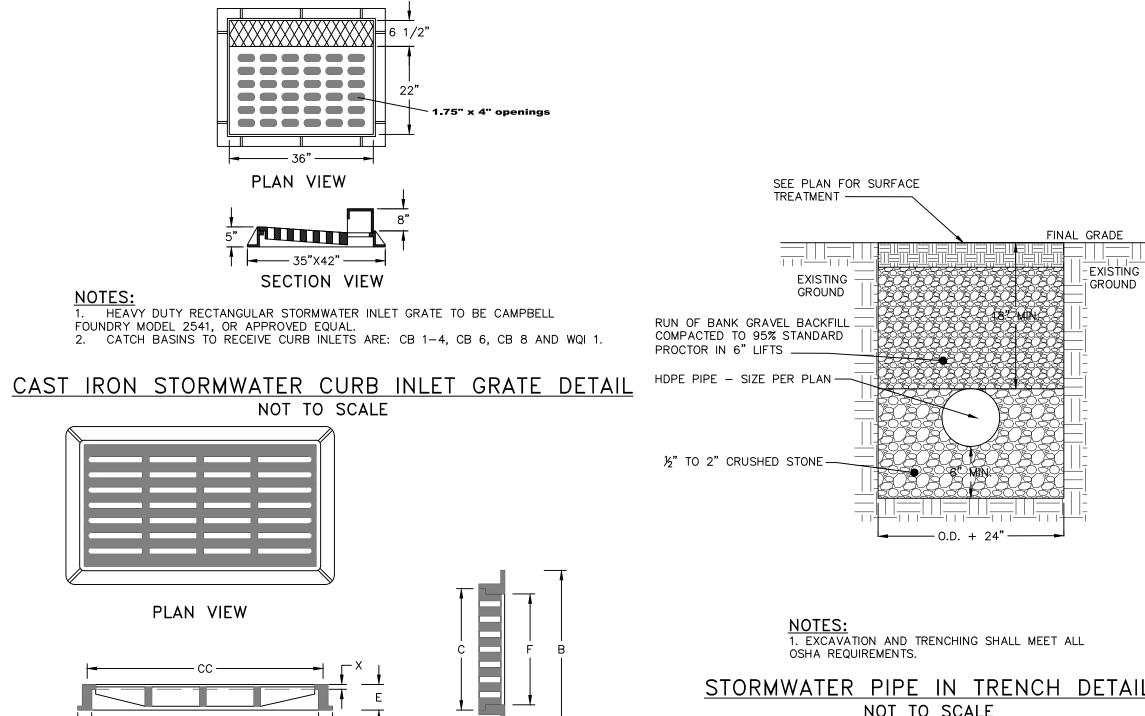
THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE CATCH 3. PIPES SHALL BE PARGED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS MADE WITHIN 10 FEET OF A WATER MAIN (OR SERVICE LINE) OR A SEWER MAIN (OR SERVICE LATERAL) SHALL BE MADE WATERTIGHT. 4. PROVIDE A MINIMUM 0.1' DROP BETWEEN INLET AND OUTLET INVERTS (MATCH CROWNS FOR PIPES WITH DIFFERENT SIZE) UNLESS OTHERWISE NOTED ON THE PLAN. 5. CATCH BASINS WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS. 6. HDPE PIPE SHALL BE PROVIDED WITH WATERTIGHT CONNECTIONS. ADS MODEL N12 WT IB OR APPROVED EQUAL. CATCH BASIN DETAIL NOT TO SCALE



1. STORMWATER TREATMENT SYSTEM (SWTS) SHALL BE DESIGNED TO MEET PERFORMANCE GOALS BASED ON FULL SCALE LABORATORY PERFORMANCE DATA. SWTS SHALL BE DESIGNED TO RETAIN FLOATABLES AND TRAPPED SEDIMENT AT FLOW RATES UP TO AND INCLUDING PEAK TREATMENT CAPACITY. SWTS INVERTS IN AND OUT SHALL BE AT THE SAME ELEVATION.
SWTS SHALL NOT BE COMPROMISED BY EFFECTS OF DOWNSTREAM TAILWATER. SWTS SHALL HAVE NO INTERNAL COMPONENTS THAT OBSTRUCT MAINTENANCE ACCESS. PIPE ORIENTATION MAY VARY; SEE SITE PLAN FOR SIZE AND LOCATION. PURCHASER SHALL NOT BE RESPONSIBLE FOR ASSEMBLY OF INTERNAL COMPONENTS. ONE MANHOLE FRAME AND COVER SUPPLIED WITH SYSTEM, NOT INSTALLED. PURCHASER TO PREPARE EXCAVATION AND PROVIDE LIFTING EQUIPMENT. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER AT, OR BELOW THE OUTLET PIPE INVERT ELEVATION. 11. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESARRY DURING MAINTENACE CLEANING. 12. SEE GRADING & UTILITY PLAN FOR PIPE ORIENTATION, INVERTS AND SIZES.

CDS® PRE-TREATMENT UNIT DETAIL

NOT TO SCALE



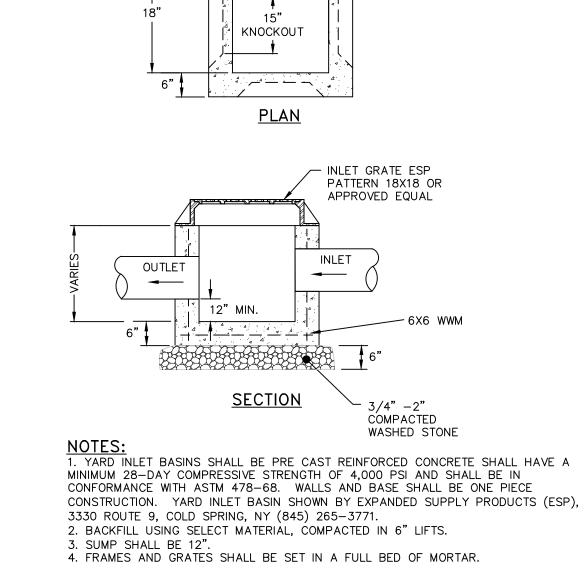
SECTION VIEW 2

B C E F X BB CC FF 30½ 24½ 41½ 36½ 34²

DIMENSION TABLE:

STORMWATER PIPE IN TRENCH DETAIL

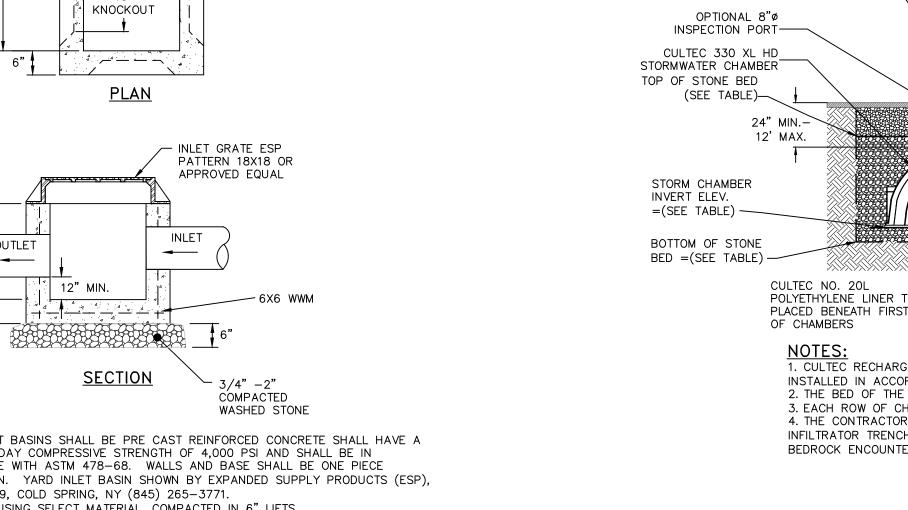
NOT TO SCALE

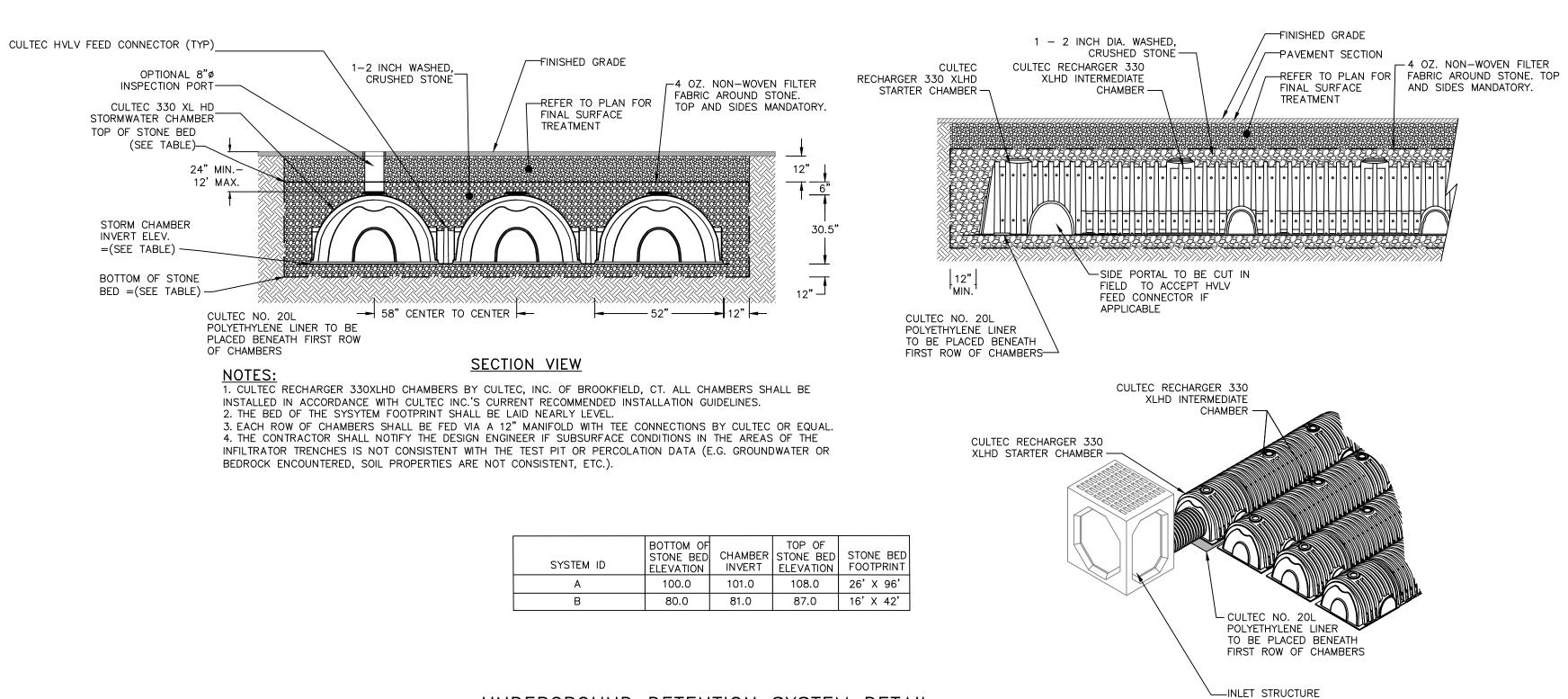


PRE-CAST CONCRETE YARD INLET DETAIL

NOT TO SCALE

18" 6'





UNDERGROUND DETENTION SYSTEM DETAIL

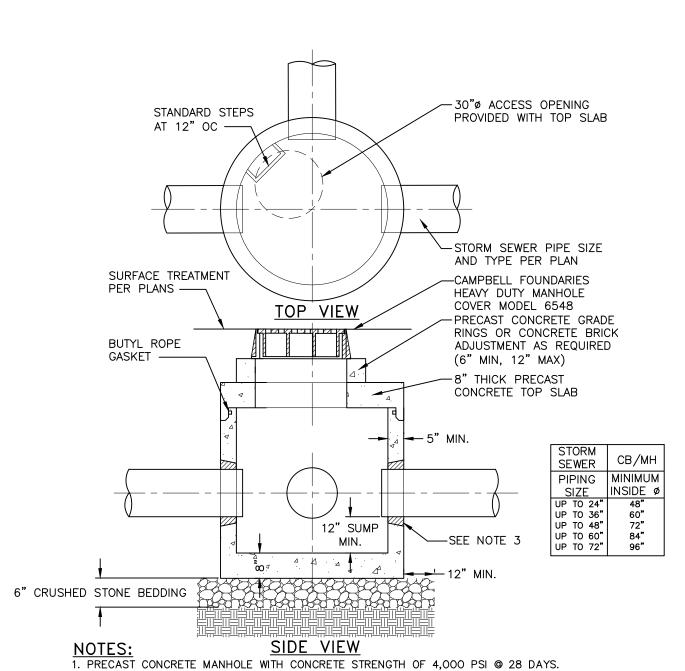
NOT TO SCALE

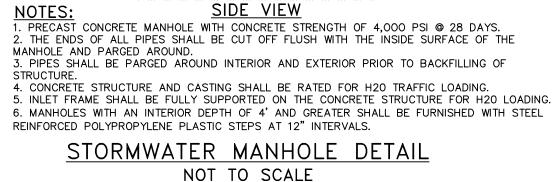
NOTES:

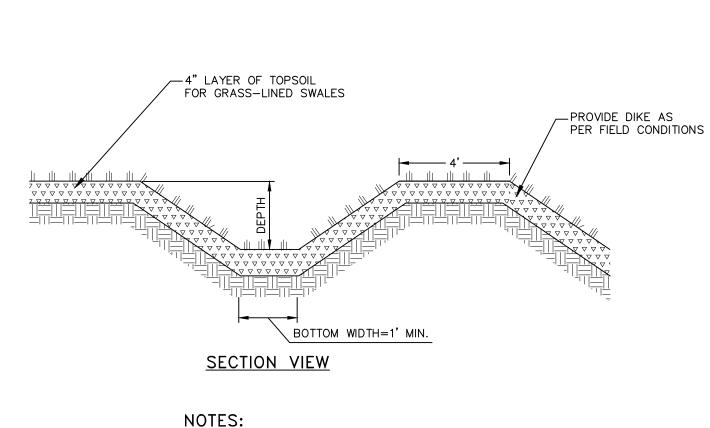
1. HEAVY DUTY RECTANGULAR STORMWATER INLET GRATE TO BE CAMPBELL FOUNDRY 2. STMH1 AND STMH 2 RECEIVE SOLID CAST IRON COVERS.

SECTION VIEW 1

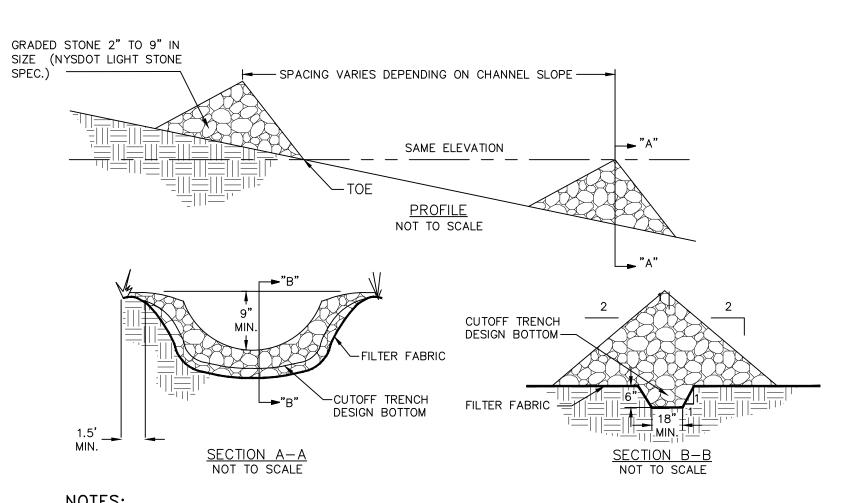
CAST IRON STORMWATER FLAT INLET GRATE DETAIL NOT TO SCALE







1. MINIMUM 1' DEPTH AND 1' WIDTH FOR ALL SWALES.
2. SWALE SHALL BE SEEDED WITH FAST GERMINATING RYE 15 TO 25 POUNDS PER 1,000 SQUARE FEET AND MULCHED. GRASS LINED SWALE/DIKE DETAIL NOT TO SCALE



1. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWN STREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM. 2. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.

3. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE. 4. ENSURE THE CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES. 5. CHECKS DAMS SHALL BE INSPECTED AFTER EACH RUNOFF EVENT AND ALL DAMAGE THAT OCCURS SHALL BE CORRECTED IMMEDIATELY. 6. REMOVE SEDIMENT ACCUMULATION BEHIND THE CHECK DAM AS REQUIRED TO ALLOW CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. STONE CHECK DAM DETAIL

NOT TO SCALE

RECOMMENDED FOR APPROVAL:

MAYOR OF THE CITY OF BEACON APPROVED BY RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BEACON

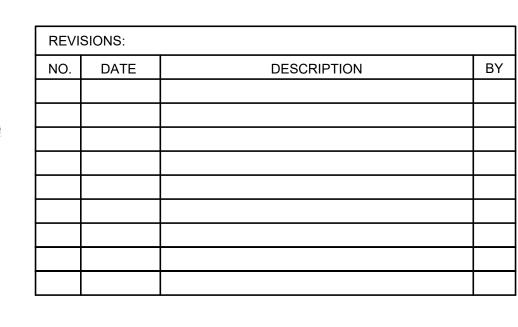
ON THE _____, DAY OF _____, 20____,

SIGNED THIS _____, 20____, BY

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE CITY OF BEACON, NEW YORK, ON THE ______ DAY OF _____, 20____, SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION. ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAT, AS APPROVED, SHALL VOID THIS APPROVAL.

IN ABSENCE OF THE CHAIRMAN OR SECRETARY, THE ACTING CHAIRMAN OR ACTING SECRETARY RESPECTIVELY MAY SIGN IN THIS PLACE.

JON D. BODENDORF, P.E. NYS LICENSE NO. 076245 DANIEL G. KOEHLER, P.E. NYS LICENSE NO. 082716



(REFER TO PLANS)

Stormwater Details

Scale: As Noted

July 25, 2017

Beacon, New York 12508