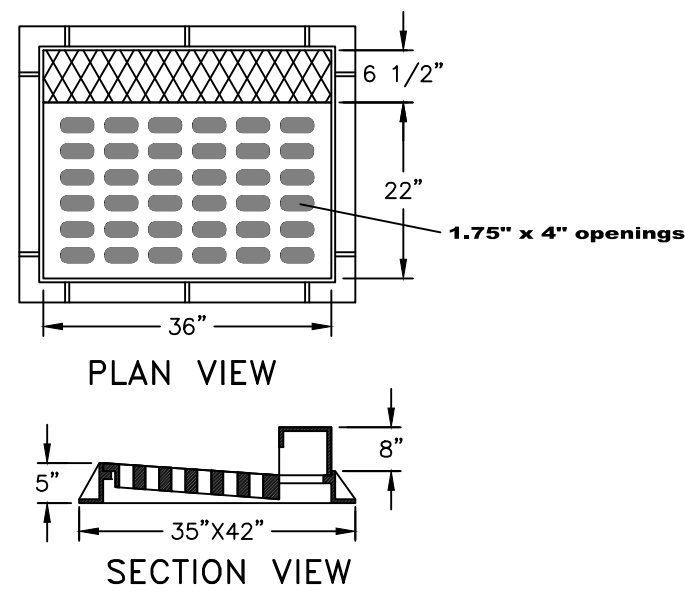


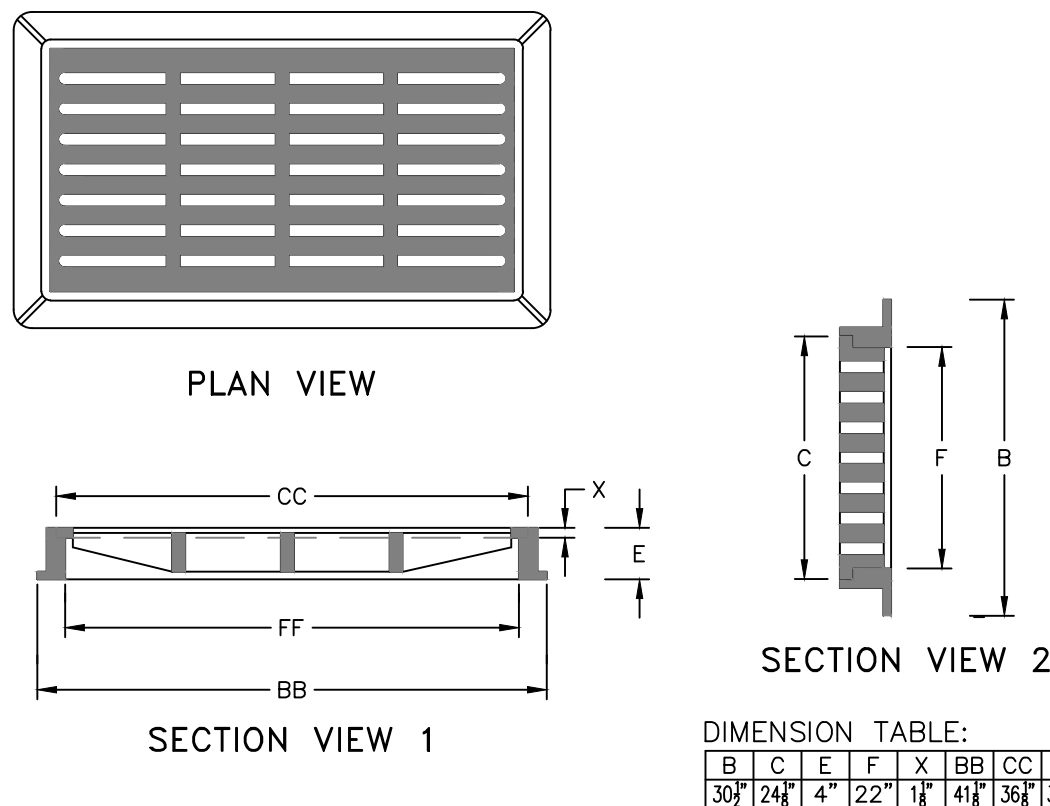
- NOTES:**
1. PRECAST CONCRETE CATCH BASIN WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.
  2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE CATCH BASIN AND PARGED AROUND.
  3. PIPES SHALL BE PARGED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS 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



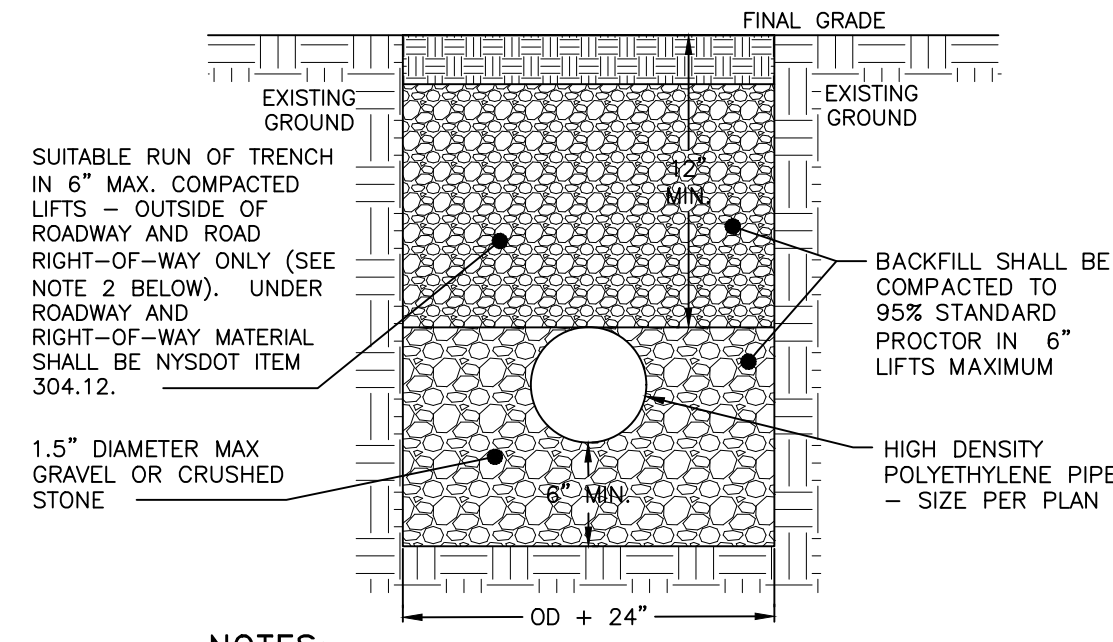
- NOTES:**
1. HEAVY DUTY RECTANGULAR STORMWATER INLET GRATE TO BE CAMPBELL FOUNDRY MODEL 2541, OR APPROVED EQUAL.
  2. CATCH BASINS TO RECEIVE CURB INLETS ARE: CB 1 THROUGH CB 10.

**CAST IRON STORMWATER CURB INLET GRATE DETAIL**  
NOT TO SCALE



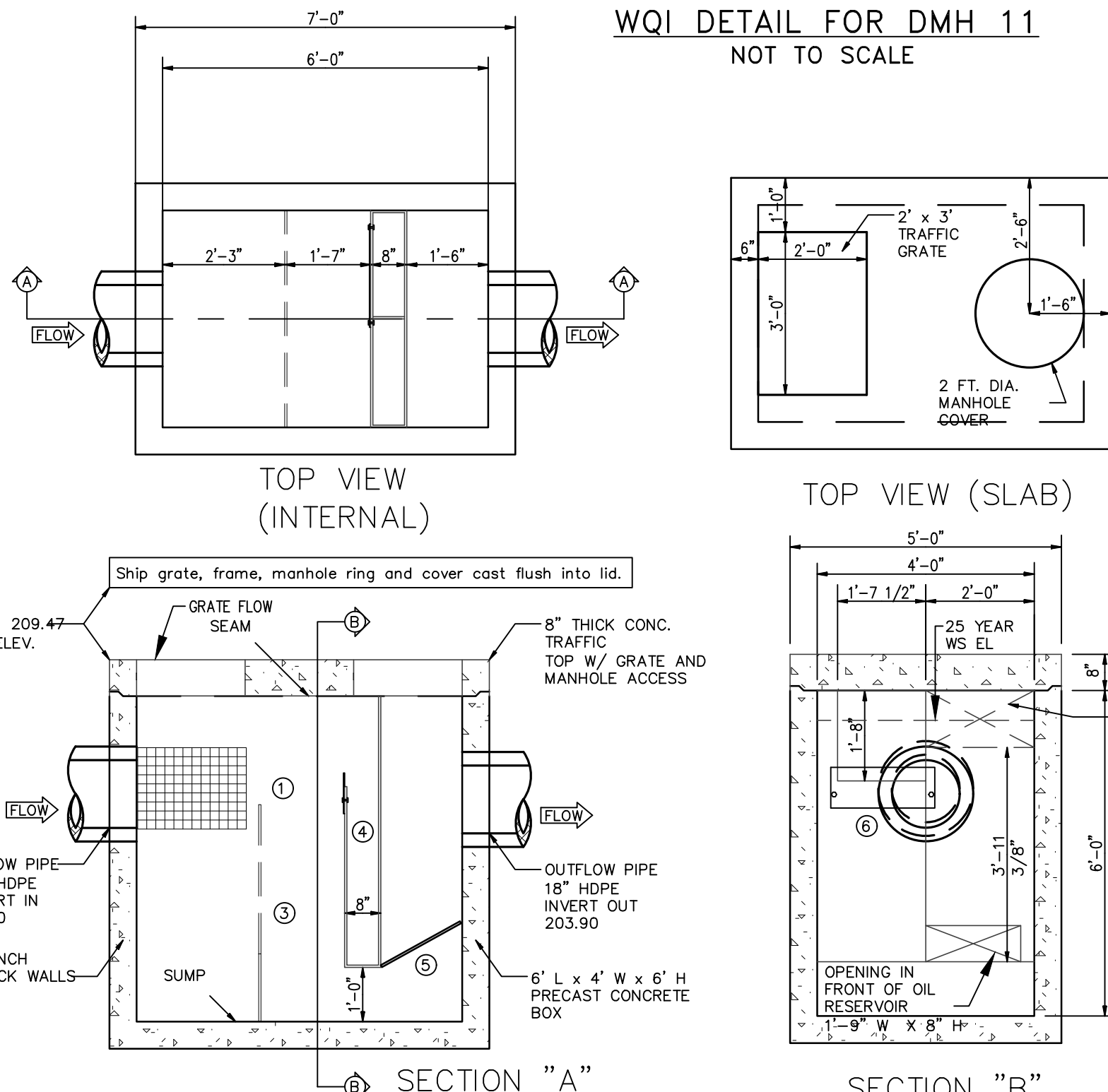
- NOTES:**
1. HEAVY DUTY RECTANGULAR STORMWATER INLET GRATE TO BE CAMPBELL FOUNDRY MODEL 3433, OR APPROVED EQUAL.
  2. DMH 11 RECEIVES A SOLID CAST IRON COVER.

**CAST IRON STORMWATER FLAT INLET GRATE DETAIL**  
NOT TO SCALE



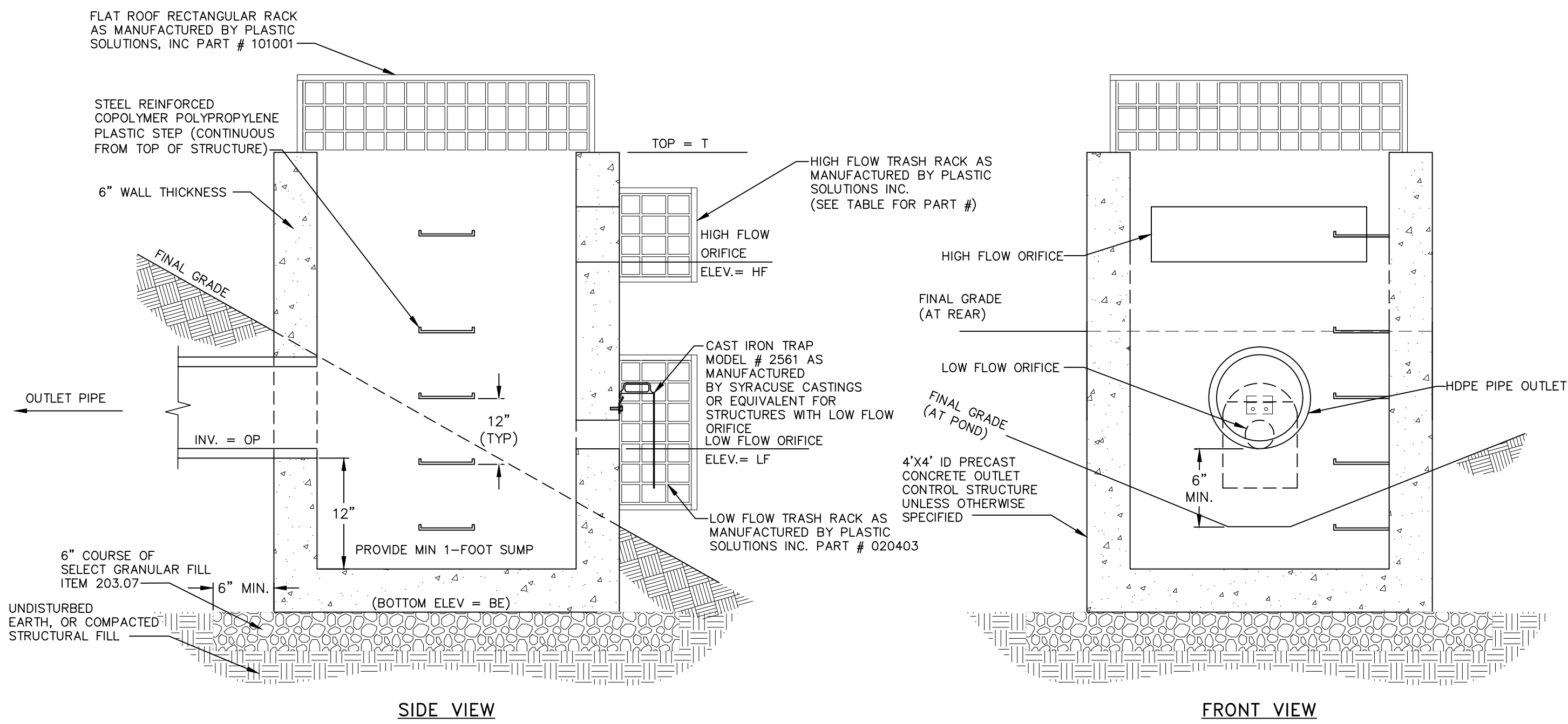
- NOTES:**
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
  2. SUITABLE RUN OF TRENCH IN 6" MAX. COMPACTED LIFTS - OUTSIDE OF ROADWAY AND ROAD RIGHT-OF-WAY ONLY (SEE NOTE 2 BELOW). UNDER ROADWAY AND RIGHT-OF-WAY MATERIAL SHALL BE NYSOT ITEM 304.12.

**STORM LINE TRENCH DETAIL**  
NOT TO SCALE



- NOTES:**
1. WATER QUALITY INLET SHOWN IS "CRYSTAL CLEAN" MODEL # 646 IB BY CRYSTAL STREAM TECHNOLOGIES, INC. OF LAWRENCEVILLE, GA., 1-800-648-6945.
  2. ALL PIPES SHALL BE CONSTRUCTED TO BE FLUSH WITH THE INSIDE WALLS.
  3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PIPES AND STRUCTURES BETWEEN AND AROUND THE WATER QUALITY VAULTS.
  4. ALL VAULT LIFTING CONNECTIONS SHALL BE LOCATED ON THE OUTSIDE OF THE VAULT WALLS.
  5. CONCRETE VAULT PRE-CASTER IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE CONCRETE VAULTS. WALL AND SLAB THICKNESSES SHALL BE ALTERED ACCORDINGLY.

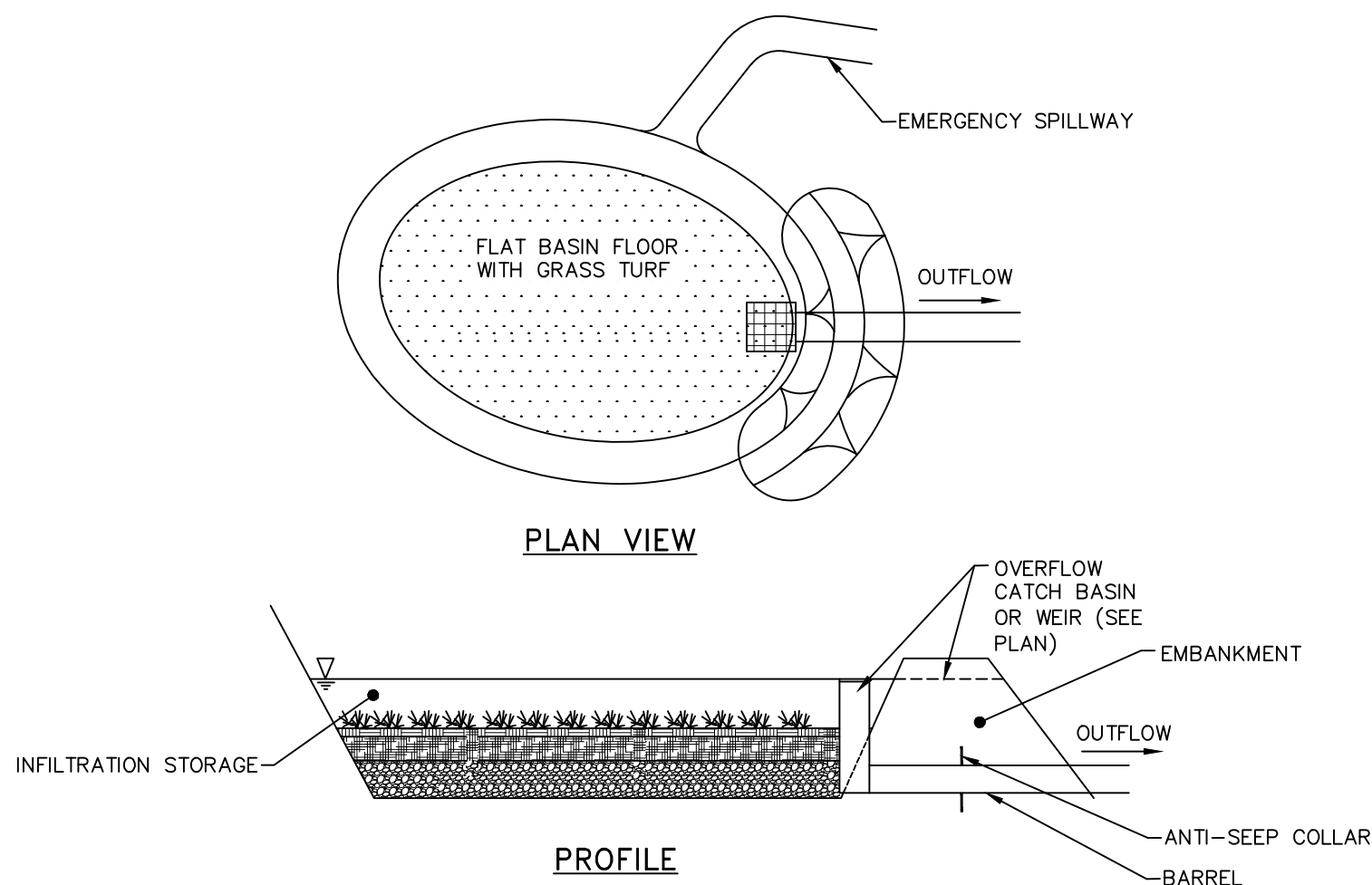
**HYDRODYNAMIC DEVICE DETAIL**  
NOT TO SCALE



OUTLET CONTROL STRUCTURE DATA									
OCs ID	STRUCTURE DIMENSIONS	LOW FLOW ORIFICE DIM. (IN)	"LF" (FT)	HIGH FLOW ORIFICE DIM	# OF HIGH FLOW INLETS	"HF" (FT)	"TT" (FT)	OUTLET PIPE Ø (IN)	"OP" (FT)
15	4'x4' I.D.	6" Ø	198.5	6" x 36"	1	199.1	200.0	18	197.00

- NOTES:**
1. ALL TRASH RACKS SHALL HAVE UV PROTECTION MEETING OR EXCEEDING THE REQUIREMENTS OF ASTM D2565-99.
  2. TRASH RACKS SHALL BE SECURED PER THE MANUFACTURER'S RECOMMENDATIONS.
  3. WHERE HIGH FLOW ORIFICE EXTENDS TO TOP OF STRUCTURE, THE MAXIMUM ALLOWABLE GAP BETWEEN THE TRASH RACKS SHALL BE 4".

**INFILTRATION OUTLET CONTROL STRUCTURE DETAIL**  
NOT TO SCALE



- NOTES:**
1. THE INFILTRATION BASIN SHALL NOT SERVE AS A SEDIMENT TRAP DURING CONSTRUCTION AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITY.
  2. RELATIVELY LIGHT TRACKED EQUIPMENT IS RECOMMENDED FOR CONSTRUCTION PURPOSES TO AVOID COMPACTION OF THE BASIN FLOOR.
  3. A HIGHLY POROUS SURFACE TEXTURE SHALL BE RETAINED ALONG THE BASIN FLOOR, ESPECIALLY WITHIN THE AREA IDENTIFIED AS BEING USED FOR INFILTRATION.
  4. ESTABLISH DENSE VEGETATION ON THE BASIN SIDE SLOPES AND FLOOR TO PREVENT EROSION AND SLOUGHING AND TO PROVIDE A NATURAL MEANS OF MAINTAINING RELATIVELY HIGH INFILTRATION RATES. GRASSES OF THE FESCUE FAMILY (ALTAI FESCUE, WESTERN FESCUE OR RED FESCUE) ARE SPECIFIED ON THIS PLAN, PRIMARILY DUE TO THEIR ADAPTABILITY TO DRY SANDY SOILS, DROUGHT RESISTANCE, HARDINESS, AND ABILITY TO WITHSTAND BRIEF INUNDATIONS. FESCUE WILL ALSO ALLOW FOR LONG INTERVALS BETWEEN MOWINGS, WHICH SHALL OCCUR TWICE PER YEAR MINIMUM, TYPICALLY IN JUNE AND SEPTEMBER IS SATISFACTORY.
  5. THE BERMS SHALL BE SUFFICIENTLY COMPACTED AND OF SUCH MATERIAL TO PREVENT SEEPAGE.

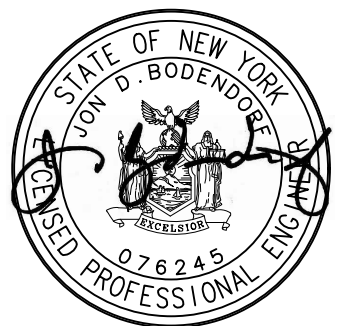
**TYPICAL INFILTRATION BASIN DETAIL**  
NOT TO SCALE

DRAWN BY: JDB CHECKED BY: MAB JOB NO.: 2015:025			
REVISIONS:			
NO.	DATE	DESCRIPTION	BY
1	02/27/18	PER PLANNING BOARD COMMENTS	CMB

## CONSTRUCTION DETAILS 25 TOWNSEND STREET

25 TOWNSEND STREET  
CITY OF BEACON  
DUTCHESS COUNTY, NEW YORK  
TAX ID: 6055-03-383149  
SCALE: AS SHOWN  
DECEMBER 7, 2015

**HUDSON LAND DESIGN**  
HUDSON LAND DESIGN  
PROFESSIONAL ENGINEERING P.C.  
174 MAIN STREET  
BEACON, NEW YORK 12508  
PH: 845-440-6926 F: 845-440-6637



SEAL  
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NYS LICENSE NO. 076245  
DANIEL G. KOEHLER, P.E.  
NYS LICENSE NO. 082716

SHEET: 6 OF 7