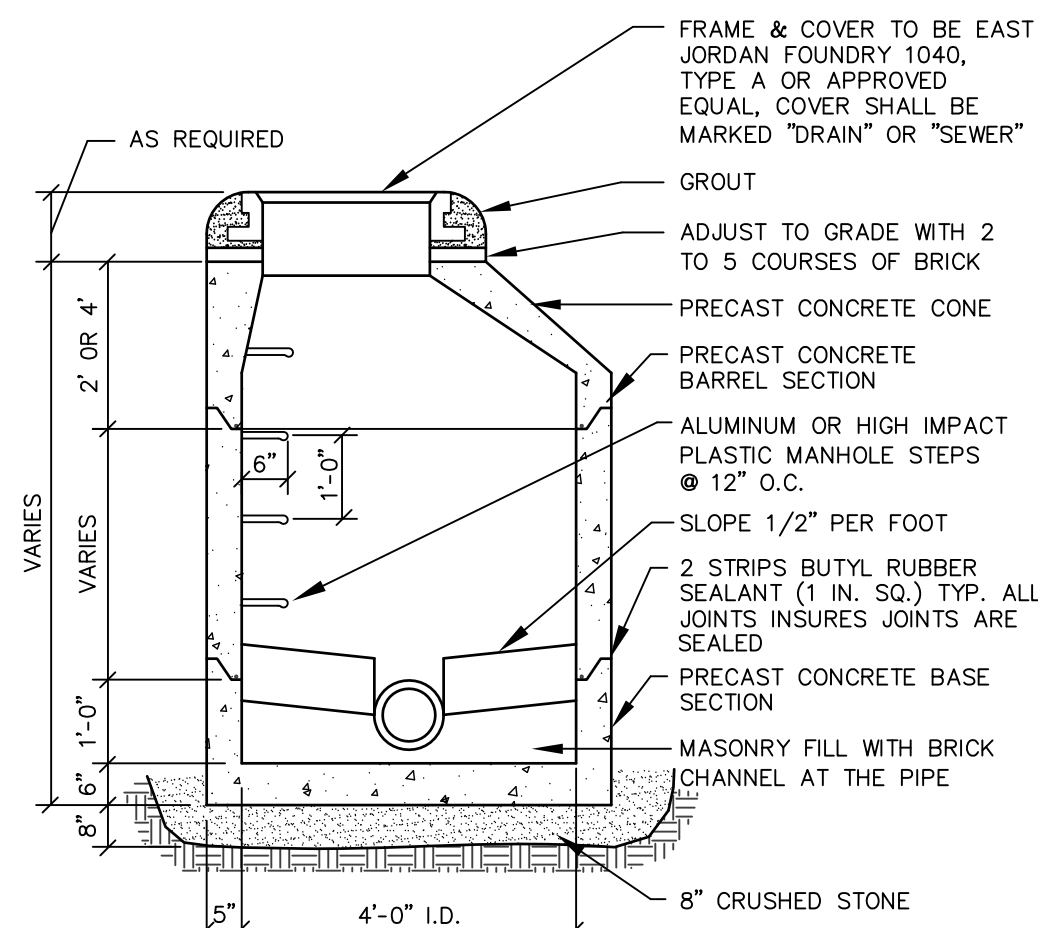


NOTES:

- CORNER OR END POST: NOMINAL 3" O.D. GALVANIZED STEEL PIPE, MIN. 5.79 LBS./LF.
- INTERMEDIATE POST: NOMINAL 2-1/2" O.D. GALVANIZED STEEL PIPE, MIN. 3.65 LBS./LF.
- BRACES (TOP & BOTTOM): NOMINAL 1-5/8" O.D. GALVANIZED STEEL PIPE, MIN. 2.27 LBS./LF.
- THE OUTSIDE OF THE FENCE FABRIC SHALL BE 3" INSIDE THE EDGE OF PAVEMENT.
- BRACE RAIL AND DIAGONAL BRACE ROD SHALL BE INSTALLED AT EACH 10' CORNER SECTION OF ENCLOSURE.
- CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH (f') c OF 3,000 psi WITH 6% AIR ENTRAINMENT.
- SUBMIT SHOP DRAWINGS FOR OWNER'S/ENGINEER'S APPROVAL. FENCE FABRIC, POSTS, RAILS AND APPURTENANCES SHALL BE VINYL CLAD; COLOR: BLACK

TYPICAL CHAIN LINK FENCE

NOT TO SCALE



NOTE: PIPE CONNECTIONS SHALL BE WATERTIGHT FLEXIBLE BOOT CONNECTORS PROVIDES LEAKPROOF CONNECTION

PRECAST DRAIN MANHOLE

NOT TO SCALE

GENERAL POND CONSTRUCTION NOTES:

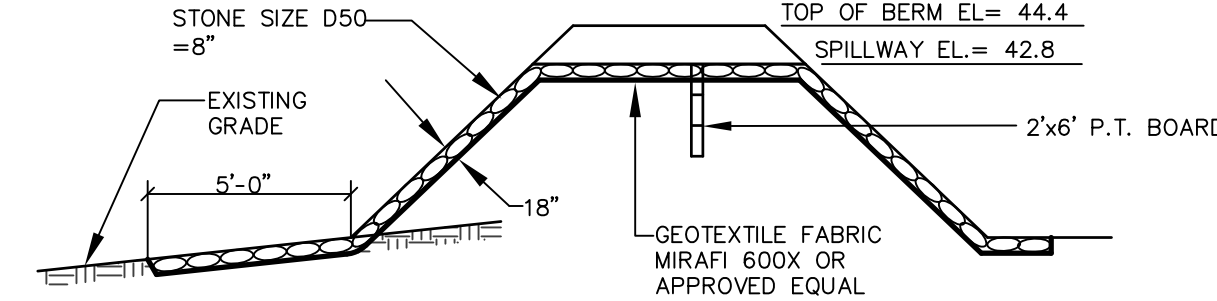
- INSTALL HAY BALE BARRIER AROUND ALL CATCH BASINS NOT IN PAVEMENT.
- SEE DETAIL SHEETS FOR EROSION CONTROL NOTES.
- SOIL STOCKPILES SHALL NOT BE LOCATED WITHIN 100 FEET OF ANY NATURAL RESOURCES. STOCKPILES SHALL BE CONTAINED WITH A DOUBLE BOUNDARY OF FILTRATION BARRIER. SEE EROSION CONTROL NOTES.
- PIPE MATERIALS:
 - STORM DRAIN: SMOOTH WALL CORRUGATED HDPE
 - UNDER DRAIN: 6" PERFORATED HDPE
- SEE DETAIL SHEETS FOR ADDITIONAL DETAILS.

CONSTRUCTION OVERSIGHT

- CONSTRUCTION OVERSIGHT**
THE APPLICANT WILL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO INSPECT THE CONSTRUCTION AND STABILIZATION OF ALL STORMWATER MANAGEMENT STRUCTURES ACCORDING TO THE DETAILS AND NOTES SPECIFIED ON THE APPROVED PLANS. IF NECESSARY, THE INSPECTING ENGINEER WILL INTERPRET THE POND'S CONSTRUCTION PLAN FOR THE CONTRACTOR. ONCE ALL STORMWATER MANAGEMENT STRUCTURES ARE CONSTRUCTED AND STABILIZED, THE INSPECTING ENGINEER WILL NOTIFY THE DEPARTMENT IN WRITING WITHIN 30 DAYS TO STATE THAT THE POND HAS BEEN COMPLETED. ACCOMPANYING THE ENGINEER'S NOTIFICATION MUST BE A LOG OF THE ENGINEER'S INSPECTIONS GIVING THE DATE OF EACH INSPECTION, THE TIME OF EACH INSPECTION, AND THE ITEMS INSPECTED ON EACH VISIT, AND INCLUDE ANY TESTING DATA OR SIEVE ANALYSIS DATA OF EVERY MINERAL SOIL AND SOIL MEDIA SPECIFIED IN THE PLANS AND USED ON SITE.
- WET PONDS**
INSPECTION BY A PROFESSIONAL ENGINEER WILL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE INSTALLATION OF EACH POND'S EMBANKMENT CONSTRUCTION, STORMWATER INLET, UNDERDRAINED GRAVEL OUTLET, GRAVEL OUTLET FILTER MATERIAL MAKEUP AND PLACEMENT, OUTLET CONTROL STRUCTURE, CLAY LINER (IF APPLICABLE), AND EMERGENCY SPILLWAY CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE POND. AN INSPECTION OF THE UNDERDRAINED GRAVEL OUTLET SHALL ALSO BE PERFORMED ONE YEAR AFTER THE FINAL STABILIZATION OF THE POND.
- DEWATERING**
A DEWATERING PLAN IS NEEDED TO ADDRESS EXCAVATION DE-WATERING FOLLOWING HEAVY RAINFALL EVENTS OR WHERE THE EXCAVATION MAY INTERCEPT THE GROUNDWATER TABLE DURING CONSTRUCTION. THE COLLECTED WATER NEEDS TREATMENT AND A DISCHARGE POINT THAT WILL NOT CAUSE DOWNGRADED EROSION AND OFFSITE SEDIMENTATION OR WITHIN A RESOURCE. PLEASE FOLLOW THE DETAILS OF SUCH A PLAN. BASIC STANDARDS - EROSION CONTROL MEASURES MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE APPLICANT WILL BE RESPONSIBLE TO MAINTAIN ALL COMPONENTS OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY NEED TO BE IMPLEMENTED. ALL AREAS OF INSTABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION AND NEED TO BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG MUST BE MAINTAINED FOR THE EROSION AND SEDIMENTATION CONTROL INSPECTIONS AND MAINTENANCE.
- THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES AS PUBLISHED IN 1991 BY THE CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION HAS BEEN CHANGED TO THE MAINE EROSION AND SEDIMENT CONTROL BMP'S PUBLISHED BY THE MAINE DEP IN 2003. ALL REFERENCES SHOULD BE CHANGED TO THE NEW MANUAL. [HTTP://WWW.MAINE.GOV/DEP/BLWQ/DOCSTAND/ESCBMPS/INDEX.HTM](http://www.maine.gov/dep/blwq/docstand/escbmps/index.htm)

WET POND CONSTRUCTION SEQUENCE AND DEWATERING:

- INSTALL TREE SAVE FENCING, CLEAR TREES
- INSTALL PERIMETER EROSION CONTROLS PRIOR TO STUMPING AND GRUBBING OR SOIL DISTURBANCE.
- CLEAR AND GRUB POND AREA
- INSTALL RIPRAP OUTLET PIPE APRON
- INSTALL DIRTBAG DEWATERING FILTER SYSTEM AS INDICATED ON GRADING AND DRAINAGE PLANS. BEGIN BYPASS PUMPING OF POND AREA AS REQUIRED.
- INSTALL OUTLET PIPE
- INSTALL OUTLET CONTROL STRUCTURE
- GRUB EMBANKMENT SUBGRADE AND CONSTRUCT EMBANKMENT CUT/FILL
- INSTALL POND BENCH UNDERDRAIN AND CONNECT TO OUTLET CONTROL STRUCTURE
- STABILIZE PERMANENT (EXTERIOR) POND EMBANKMENTS WITH SEED AND EROSION CONTROL MIX (WOOD WASTE COMPOST)
- STABILIZE TEMPORARY SLOPES WITH HAY MULCH AND/OR EROSION CONTROL BLANKET
- COMPLETE POND SHAPING. INSTALL RIPRAP SPILLWAY AND PIPE INLET AREAS.
- INSTALL INLET PIPING
- AT COMPLETION OF SITE CONSTRUCTION AND FOLLOWING PERMANENT SITE STABILIZATION, INSPECT POND FOR ACCUMULATED SEDIMENT. DEWATER POND AND RESHAPE AS NECESSARY TO REESTABLISH DESIGN GRADES.
- INSTALL FINAL LOAM, SEED AND EROSION CONTROL BLANKET ON TOP OF BERM AND INTERIOR SLOPES.

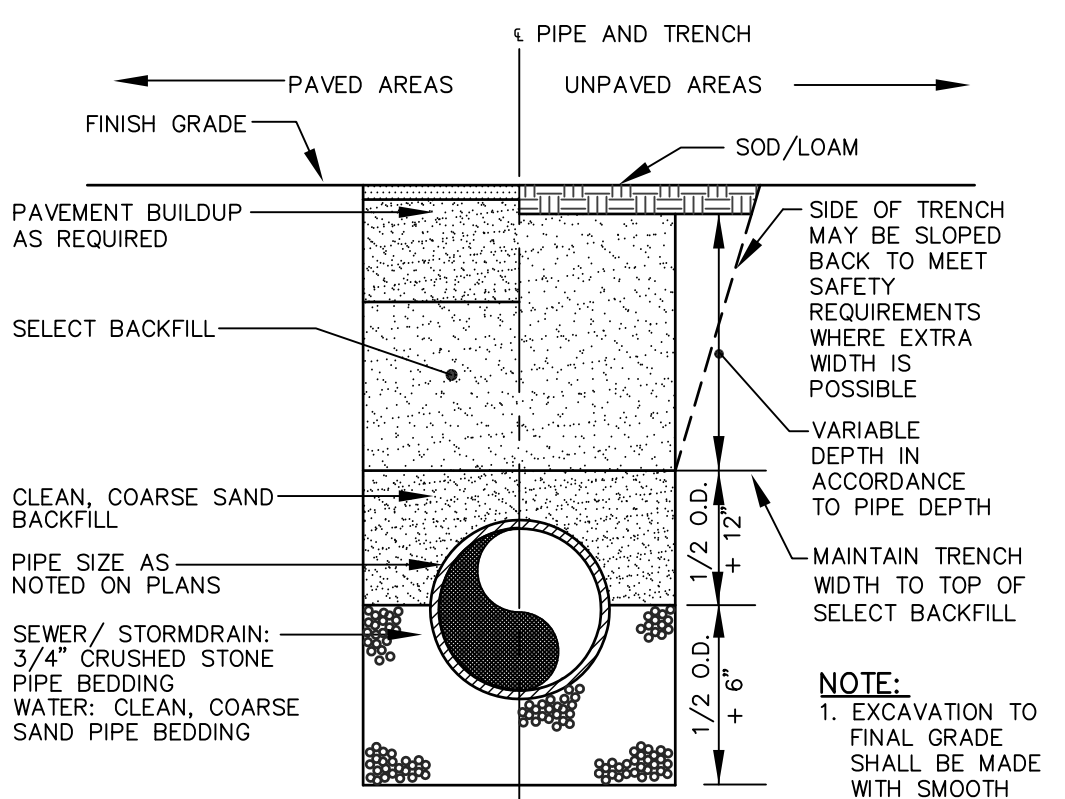


EMBANKMENT CONSTRUCTION

- CONSTRUCTION OF COMMON BORROW MATERIAL MEETING M.D.O.T. SPECIFICATION.
- INSTALL RIPRAP AND EROSION CONTROL MESH WHERE SPECIFIED ON PLANS
- THE BEST BORROW MATERIAL FOR EMBANKMENT CONSTRUCTION WILL TYPICALLY BE FROM UPLAND SOILS ON THE PROJECT SITE. HOWEVER, BORROW MATERIAL CAN BE TAKEN FROM ANYWHERE AS LONG AS CONSTRUCTION BORROW MATERIAL MEETS M.D.O.T. SPECIFICATIONS.
- CONSTRUCT A "CORE" TRENCH IN THE UNDERLYING SOILS OF THE EMBANKMENT DOWN THROUGH THE UNSTABLE OR PERVIOUS SOILS AND KEY INTO THE UNDERLYING LAYER OF MORE STABLE AND RELATIVELY IMPERMEABLE SOIL.
- PLACE BORROW MATERIAL IN 12" LIFTS COMPACTED TO 95% OF MAXIMUM.
- INSTALL RIPRAP AND EROSION CONTROL MESH WHERE SPECIFIED ON PLANS.
- LOAM, SEED, AND STABILIZE IN ACCORDANCE WITH SEDIMENTATION AND EROSION CONTROL PLAN.

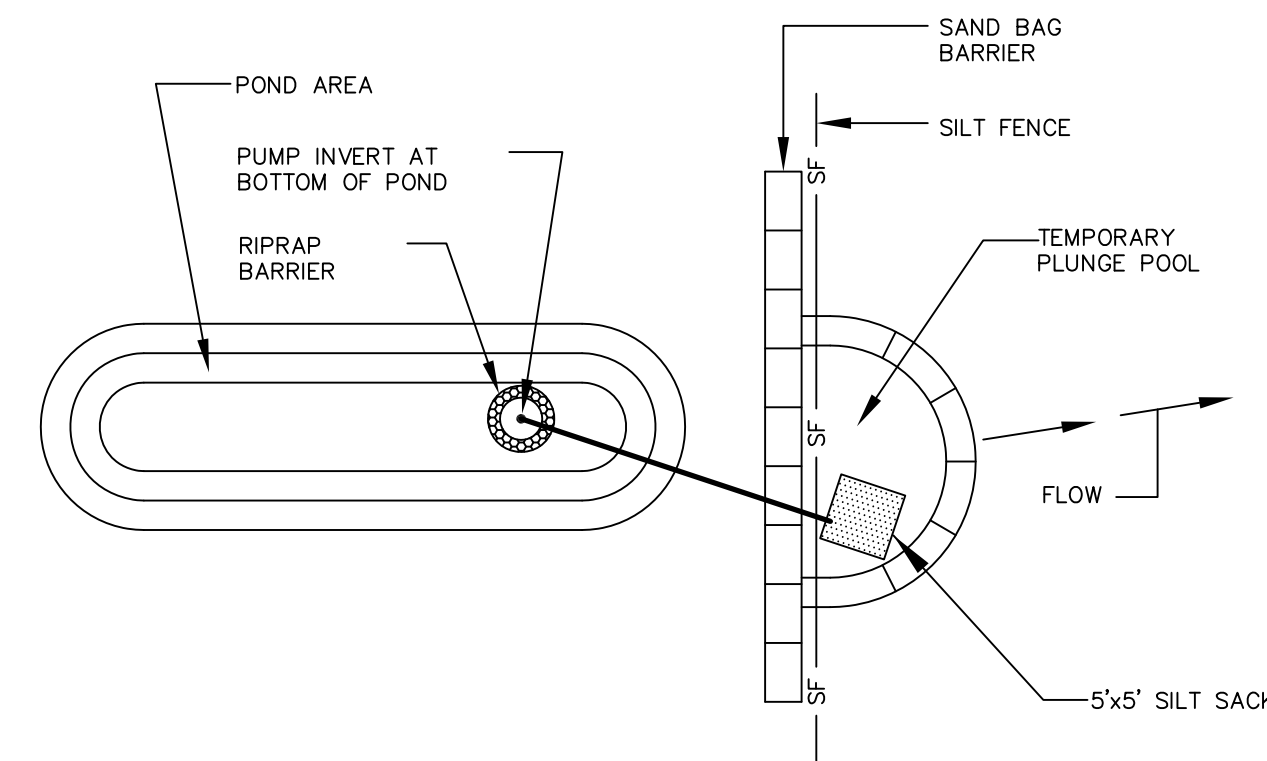
EMERGENCY SPILLWAY SECTION

NOT TO SCALE



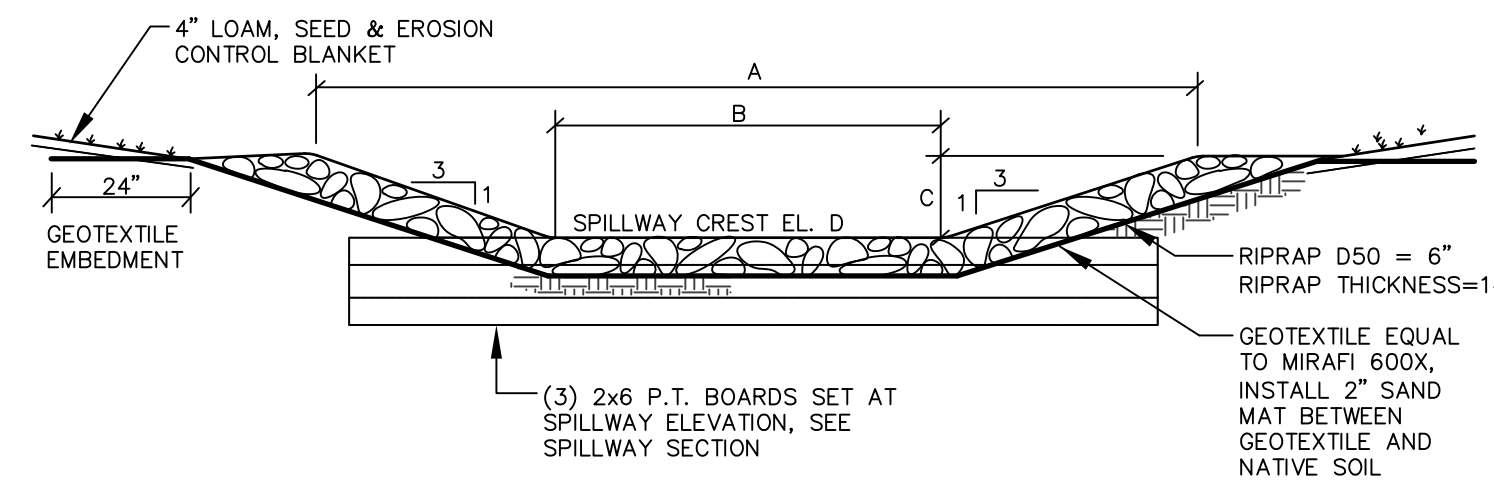
TYPICAL TRENCH SECTION

NOT TO SCALE



TEMPORARY POND DEWATERING DETAIL

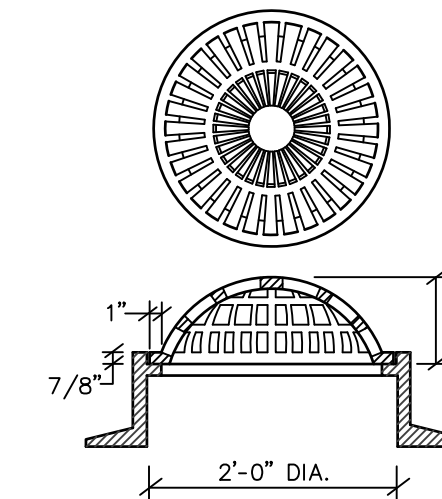
NOT TO SCALE



EMERGENCY SPILLWAY	DIMENSIONS IN FEET			ELEVATION
	A	B	C	D
OVERFLOW SPILLWAY	29.0	20.0	1.5	42.8
POND FOREBAY	10.0	13.0	0.5	42.0

EMERGENCY/ FOREBAY SPILLWAY CROSS-SECTION

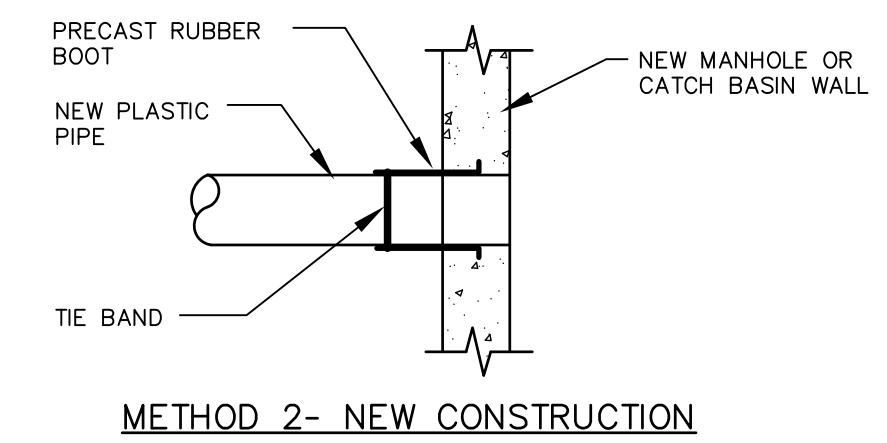
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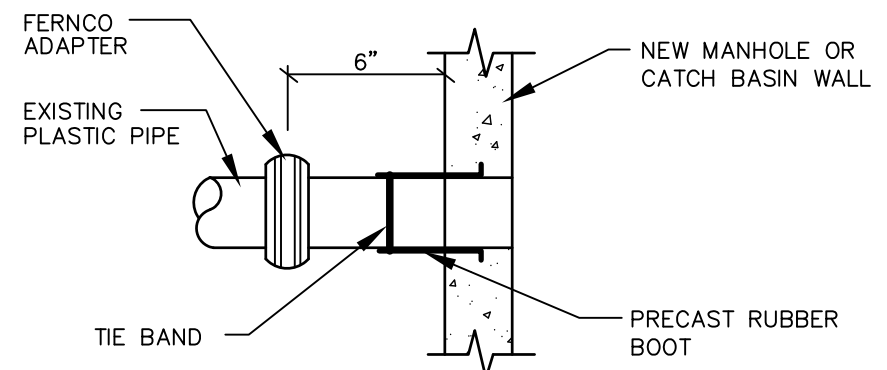
NOTE: EAST JORDAN 1205 FRAME & COVER, TYPE 02 "BEEHIVE" OR APPROVED EQUAL.

BEEHIVE GRATE

NOT TO SCALE



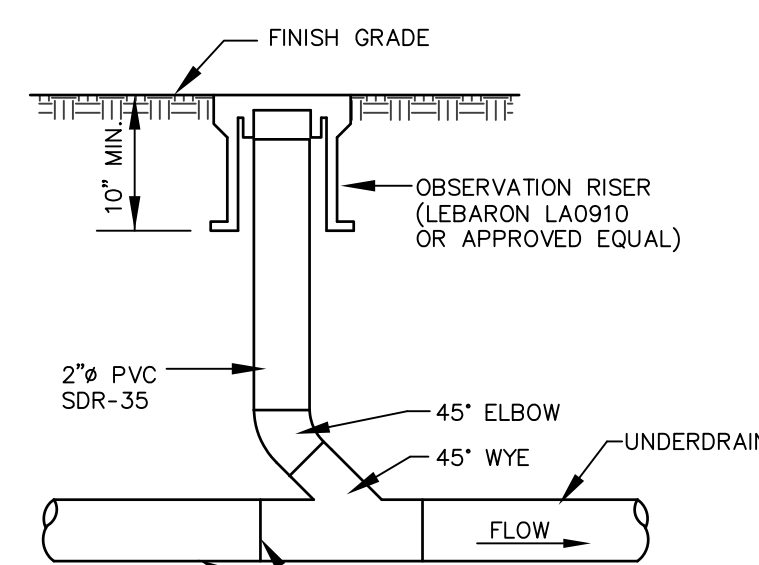
METHOD 2- NEW CONSTRUCTION



METHOD 1- EXISTING PIPE INTO NEW STRUCTURE

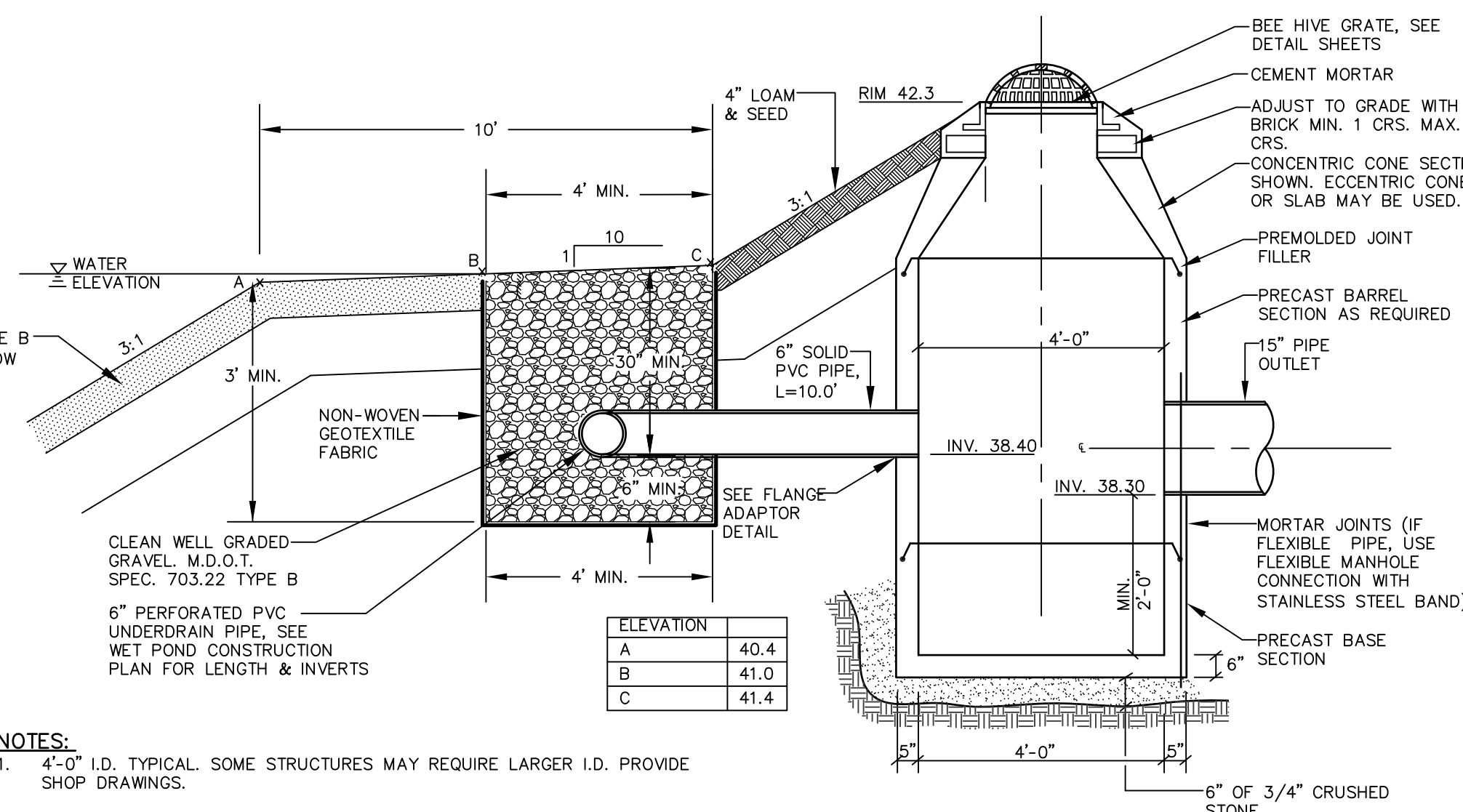
PLASTIC PIPE CONNECTIONS

NOT TO SCALE



CLEANOUT IN NON-IMPERIOUS AREAS

NOT TO SCALE



NOTES:

- 4'-0" I.D. TYPICAL. SOME STRUCTURES MAY REQUIRE LARGER I.D. PROVIDE SHOP DRAWINGS.
- DRAINAGE STRUCTURES TO BE DESIGNED FOR H-20 LOADING.
- PIPE SIZES AND INVERTS AS NOTED ON GRADING AND UTILITY PLANS.

POND SAFETY BENCH/GRAVEL FILTER & OUTLET CONTROL STRUCTURE DETAIL

NOT TO SCALE

NOT FOR CONSTRUCTION

STATE OF MAINE
CRAIG A. BURGESS, PE
Professional Engineer
No. 12638
06-18-17

DESIGNED	CHECKED
CAB	CAB
B CAB 8/18/17 ISSUED FOR CITY REVIEW	
A CAB 7/24/17 ISSUED FOR PRELIMINARY REVIEW	
REV. BY:	DATE:
STATUS:	
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