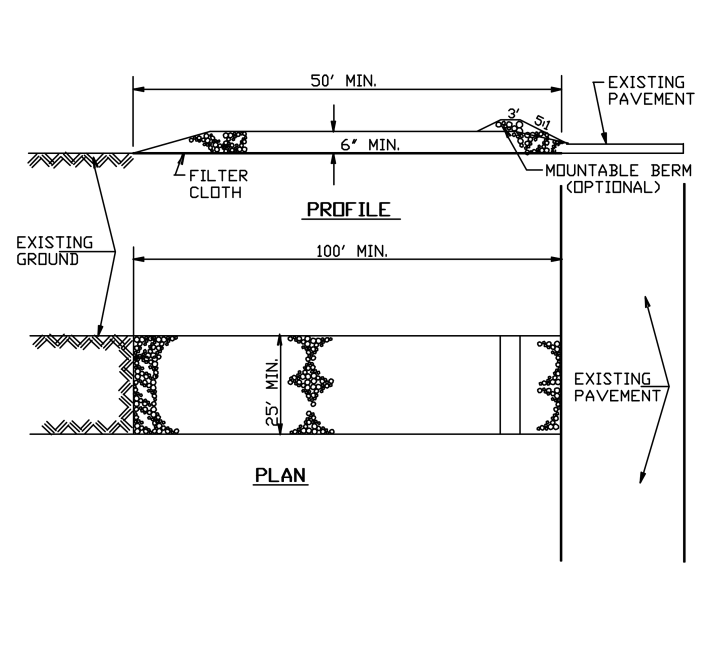
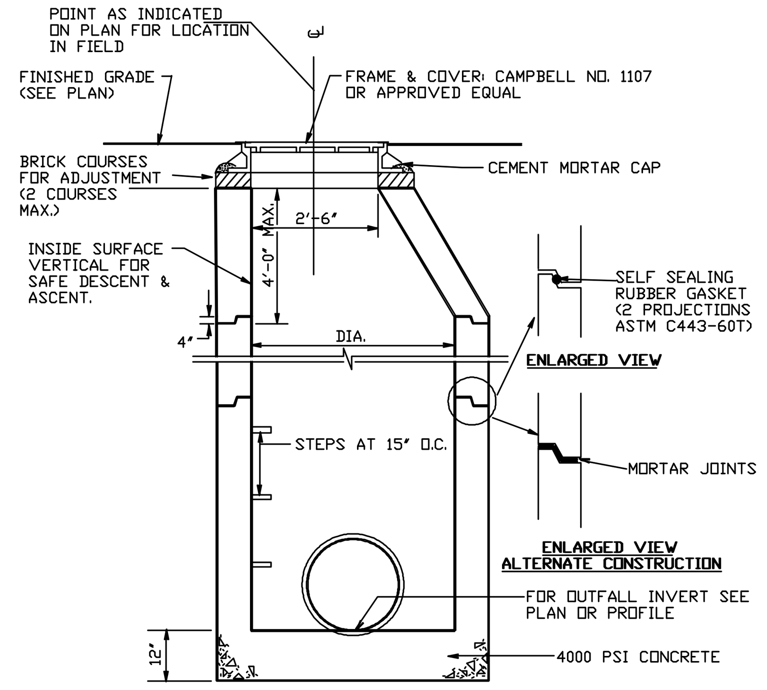


NOTES:

1. STONE SIZE - USE 2" STONE
2. LENGTH - AS REQ'D, BUT NOT LESS THAN 50 FT.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TEN (10) FT. MINIMUM
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARDS CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

TRACKING PAD

NOT TO SCALE



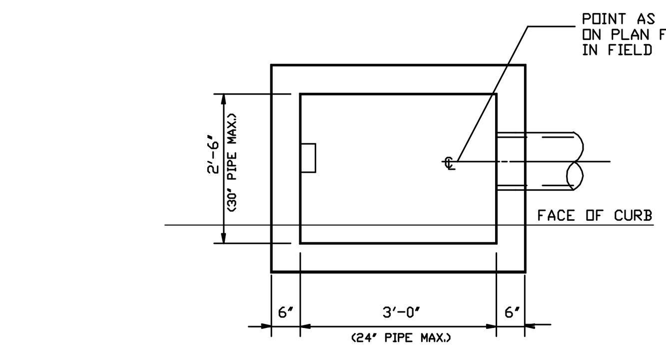
REQUIREMENT FOR MANHOLE	
DIA.	OUTFALL PIPE SIZE
4'-0"	30" MAX.
5'-0"	36" MAX.

NOTES:

1. FOR MANHOLE DEPTHS 4' OR LESS SEE "SHALLOW MANHOLE STRUCTURE".
2. THE CONTRACTOR SHALL SUBMIT SHOP DWG. FOR EACH MANHOLE FOR THE ENGINEERS APPROVAL PRIOR TO FABRICATION.
3. MANHOLE SHALL BE CERTIFIED AS CONFORMING TO ASTM-C478 LATEST REVISION.

STORM MANHOLE

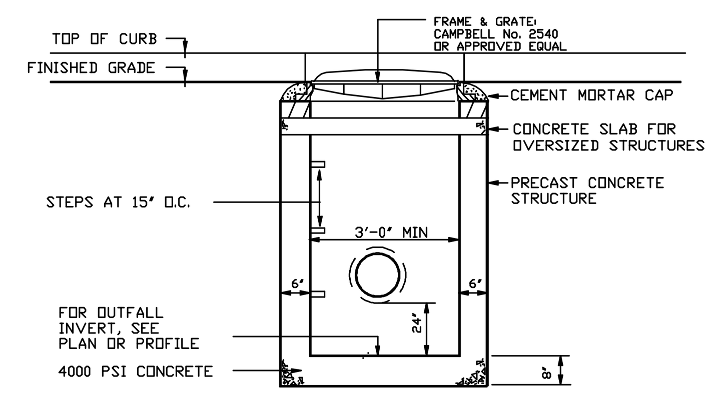
NOT TO SCALE



PLAN BELOW GRATE

NOTES:

1. THE CONTRACTOR SHALL SUBMIT SHOP DWGS. FOR EACH STRUCTURE FOR THE ENGINEERS APPROVAL PRIOR TO FABRICATION.
2. STRUCTURE SHALL BE CERTIFIED AS CONFORMING TO ASTM-C913 LATEST REVISION.
3. STEPS NOT REQUIRED FOR STRUCTURES LESS THAN 4' DEEP.
4. FOR STRUCTURES WITH PIPE DIAMETERS EXCEEDING MAXIMUMS, PROVIDE CONCRETE SLAB AS NOTED.



SECTION

CATCH BASIN

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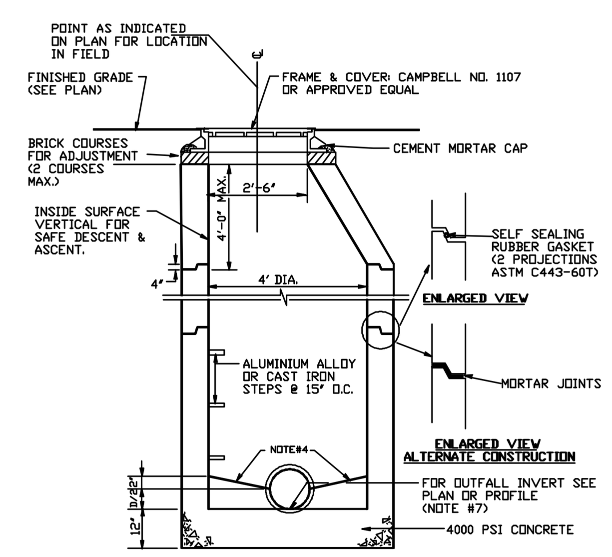
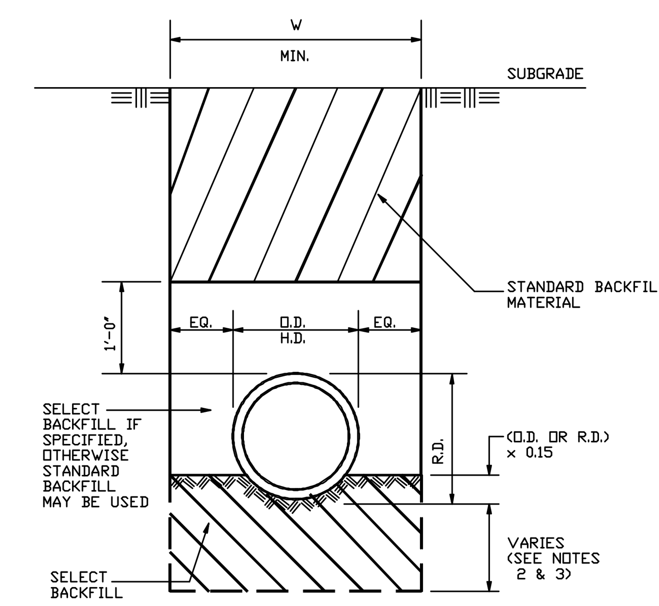


NOTES:

1. THE CONTRACTOR SHALL SUBMIT SHOP DWG. FOR EACH MANHOLE FOR THE ENGINEERS APPROVAL PRIOR TO FABRICATION.
2. MANHOLE SHALL BE CERTIFIED AS CONFORMING TO ASTM-C478 LATEST REVISION.
3. OUTSIDE OF MANHOLE TO BE COATED WITH BITUMASTIC. SEE SPEC.
4. PROVIDE PAVED INVERT - FLOOR OF MANHOLE - CONNECTING INFLOWING AND OUTFLOWING PIPES MIN. DROP 0.1' - 3500 PSI CONCRETE.
5. FOR DROP GREATER THAN 2'-0" SEE STANDARD DROP CONNECTION DETAIL.
6. FOR MANHOLE DEPTHS 4' OR LESS SEE "SHALLOW MANHOLE STRUCTURE".
7. PIPE CONNECTIONS TO MANHOLE SHALL CONFORM TO ASTM-C923.

SANITARY MANHOLE

NOT TO SCALE



D = INSIDE DIAMETER, SPAN
R.D. = OUTSIDE RISE AT BELL OR BAND
O.D. = OUTSIDE BARREL DIAMETER, SPAN, OR RISE
H.D. = OUTSIDE DIAMETER, SPAN, OR RISE @ BELL OR BAND
W = O.D. +2.0' - CONDUIT 48" OR LESS DIAMETER OR SPAN
W = O.D. +2.5' - CONDUIT GREATER THAN 48" DIAMETER OR SPAN

NOTES:

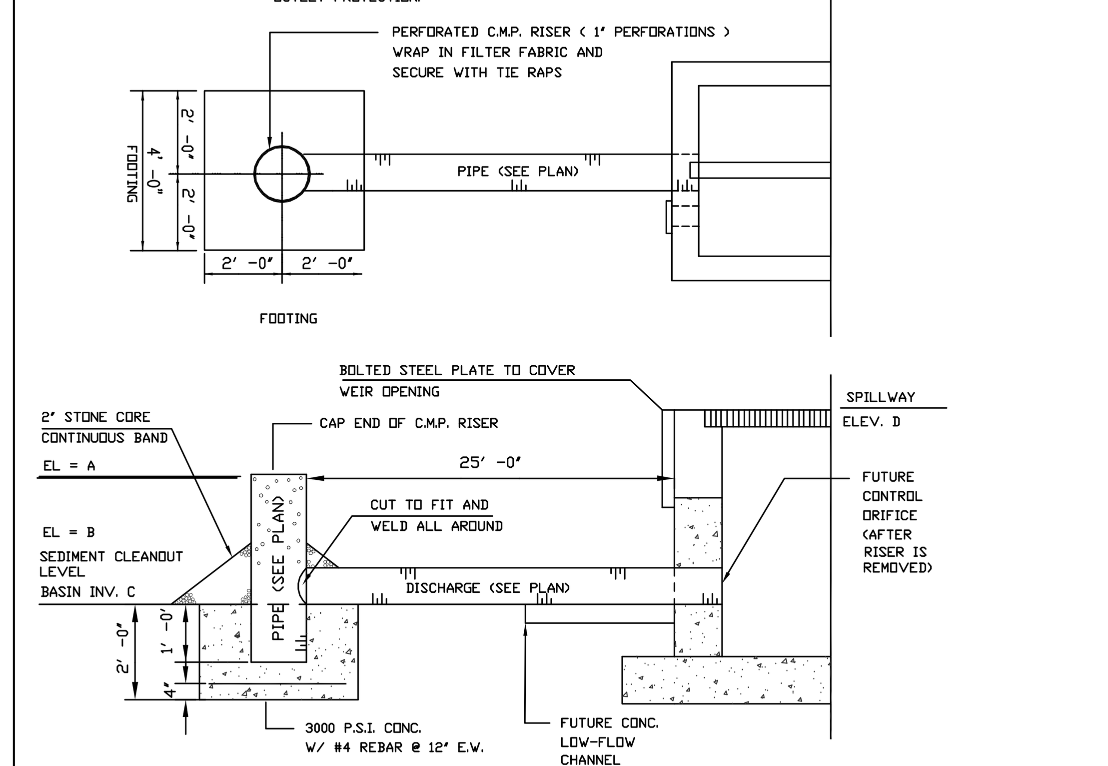
1. FILL SECTION AREA MUST BE GRADED TO 2'-0" MIN. ABOVE TOP OF PIPE BEFORE EXCAVATING TRENCH.
2. WHERE ROCK IS ENCOUNTERED IN TRENCH BOTTOM, UNDERCUT MIN. OF 12" TO MAX OF 24" (1/2" FOR EACH 1 FT. OF COVER ABOVE O.D. OR R.D.)
3. WHERE UNSUITABLE MATERIAL IS ENCOUNTERED IN TRENCH BOTTOM, UNDERCUT AS DIRECTED BY OWNER'S FIELD REPRESENTATIVE.
4. PAYMENT LIMIT IN ROCK NOT TO EXCEED W (MIN.) AND UNDERCUT EQUALS 24 INCHES.

TRENCHING DETAIL

NOT TO SCALE

NOTES:

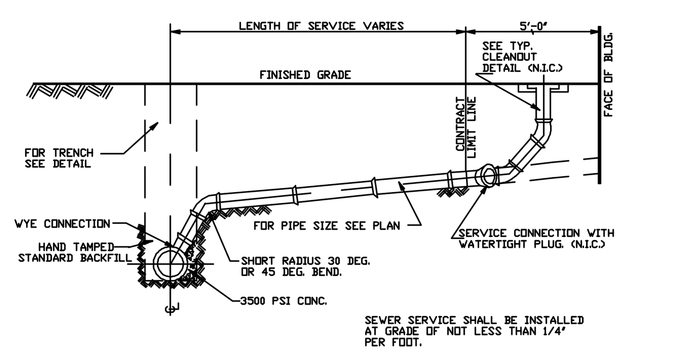
1. SEDIMENT BASIN OUTLET CONTROL STRUCTURE TO BE CONSTRUCTED AS PERMANENT OUTLET CONTROL STRUCTURE (WITH MODIFICATIONS)
   A. COVER PERMANENT WEIR OPENING WITH A BOLTED METAL PLATE.
   B. PROTECT PERMANENT GRATE WITH INLET FILTER.
   C. CONSTRUCT TEMPORARY PERFORATED RISER AS SHOWN.
   I. PERFORATIONS MUST NOT BE MADE ANY LOWER THAN 6" ABOVE TOP OF THE HORIZONTAL OUTFALL BARREL.
2. PERIODIC MAINTENANCE OF REMOVING SEDIMENT FROM BASIN WILL BE ANNUAL OR AS NECESSARY WHEN SEDIMENT REACHES CLEANOUT LEVEL INDICATED BELOW.
3. UPON COMPLETION OF SITE CONSTRUCTION AND STABILIZATION OF TOPSOIL, TEMPORARY SEDIMENT BASIN OUTLET CONTROL STRUCTURE IS TO BE RECONSTRUCTED AS THE PERMANENT OUTLET CONTROL STRUCTURE
   A. REMOVE TEMPORARY RISER STRUCTURE AND INLET FILTER FROM GRATE.
   B. REMOVE SEDIMENT, FINAL GRADE THE DETENTION BASIN AND STABILIZE.
   C. REMOVE BOLTED PLATE FROM PERMANENT WEIR.
   D. CONSTRUCT 6" ORIFICE PLATE AND TRASH RACK.
   E. INSTALL CONCRETE LOW FLOW CHANNEL AND RIP-RAP OUTLET PROTECTION.



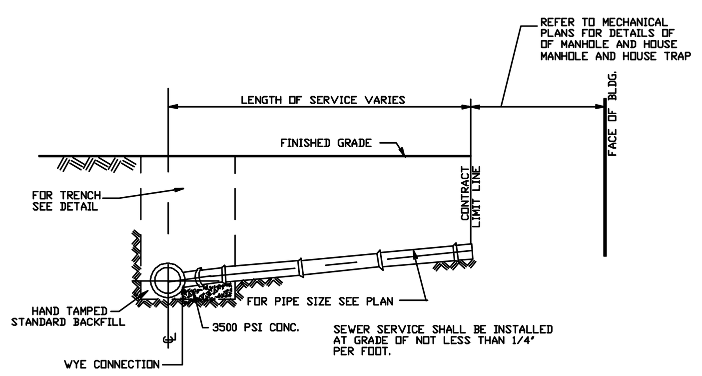
TEMP. OUTLET STRUCTURES CHART				
Pond	A	B	C	D
1B	389.0	384.0	383.0	390.0
2B	389.0	387.0	386.0	390.0
3B	393.0	390.0	389.0	394.0
3C	383.0	379.0	378.0	384.0

TEMPORARY OUTLET STRUCTURE

NOT TO SCALE



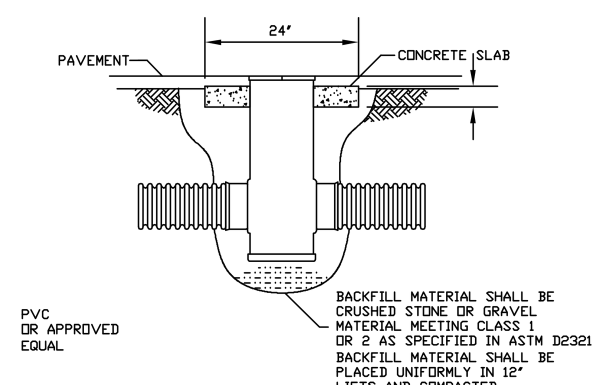
STANDARD SEWER SERVICE WITH RISER
TYPICAL SECTION



STANDARD SEWER SERVICE
TYPICAL SECTION

SANITARY SERVICE CONNECTION

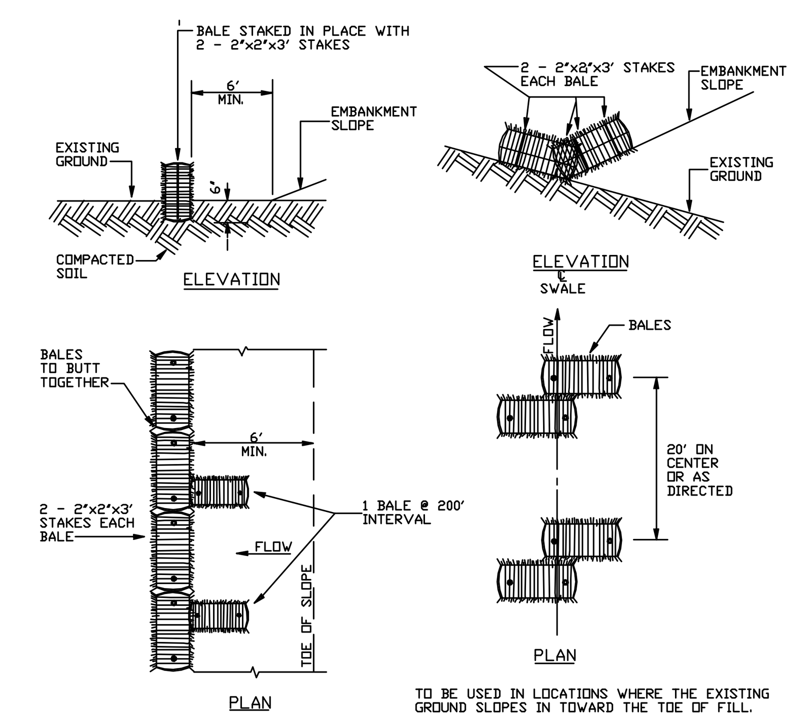
NOT TO SCALE



YARD INLET

NOT TO SCALE

SLOPE MAXIMUM		
STEEPNESS	% SLOPE	LENGTH (FT.)
2:1	50	25
3:1	33	50
4:1	25	75

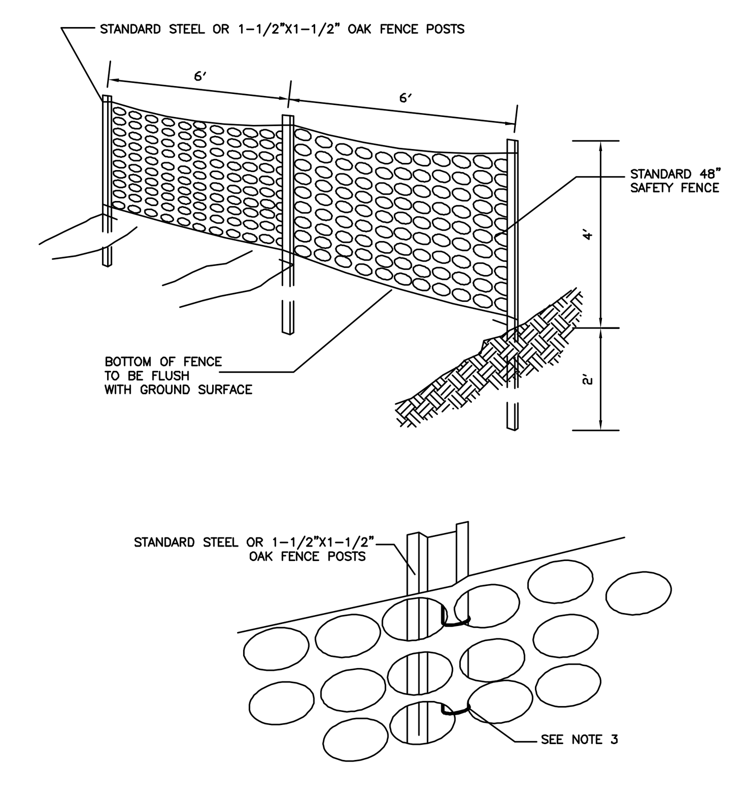


TO BE USED WHERE THE EXISTING GROUND SLOPES AWAY FROM THE TOE OF FILL EMBANKMENT.

TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES IN TOWARD THE TOE OF FILL.

STAKED HAYBALE

NOT TO SCALE

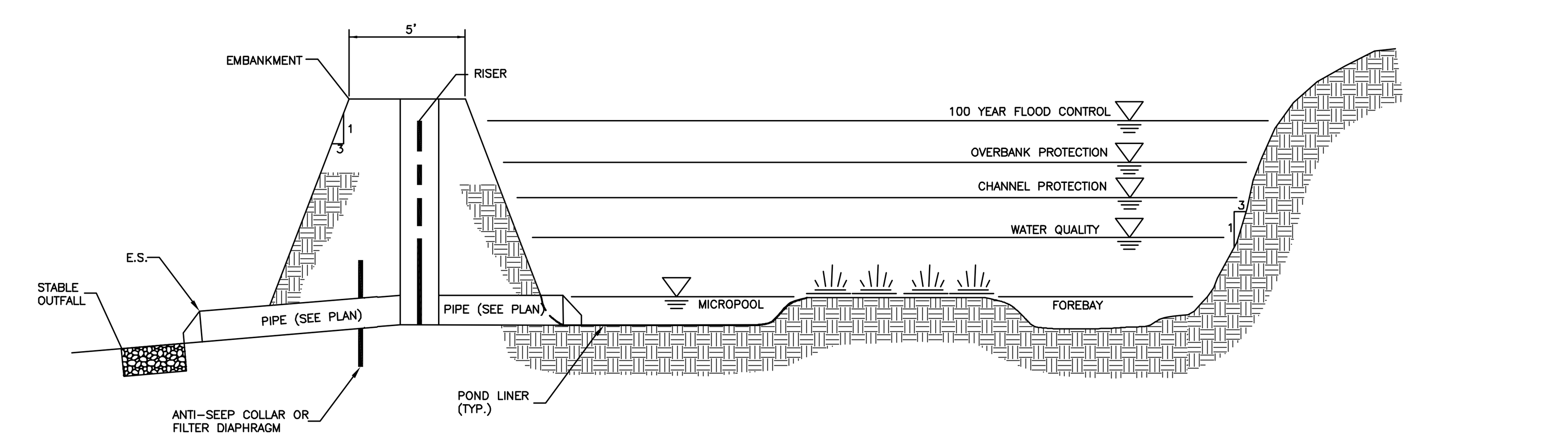


NOTES:

1. SPACE SUPPORT FENCE POSTS AT 6 FOOT INTERVALS.
2. DRIVE SUPPORT POSTS 2 FEET INTO GROUND.
3. FIRMLY FASTEN FENCE MATERIAL IN PLACE BY WIRING TO FENCE POST WHILE MAINTAINING TENSION ACROSS FULL HEIGHT OF FENCE. WIRING SHALL BE DONE IN A MANNER THAT WILL PREVENT SAGGING OF FENCE MATERIAL.
4. PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE INCLUDING REPAIRS AS NECESSARY AND REQUIRED.
5. PLASTIC FENCE SHALL BE INTERNATIONAL ORANGE COLOR, AS MANUFACTURED BY ADPI ENTERPRISES, INC. OR APPROVED EQUAL.

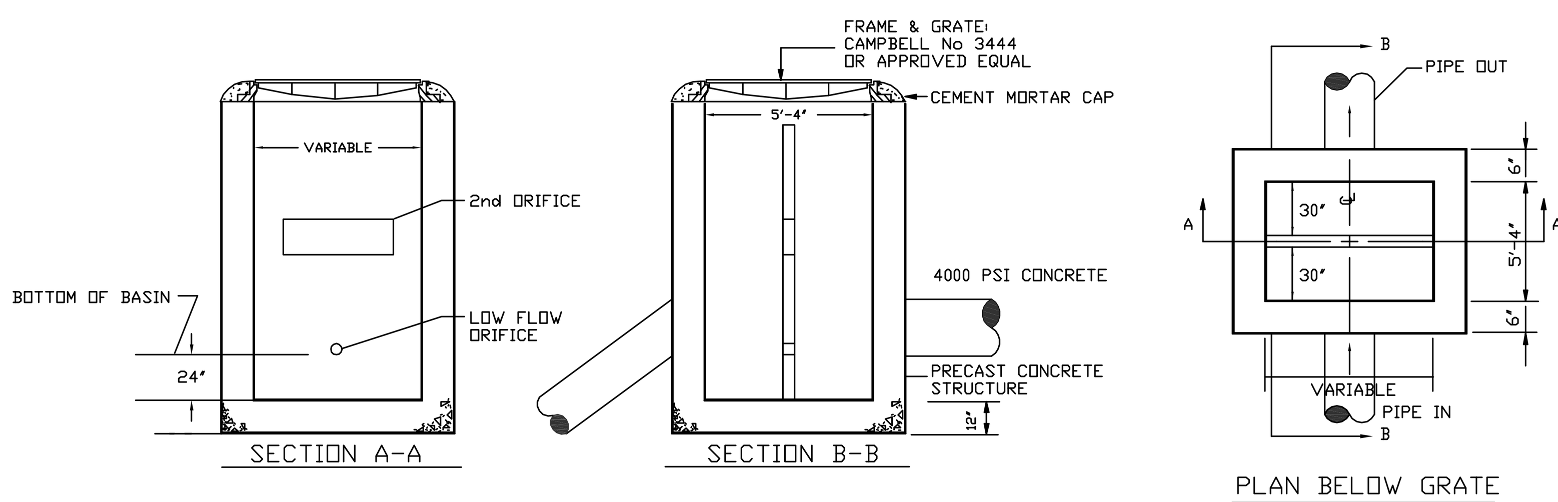
CONSTRUCTION FENCE

NOT TO SCALE



MICROPOOL EXTENDED DETENTION POND

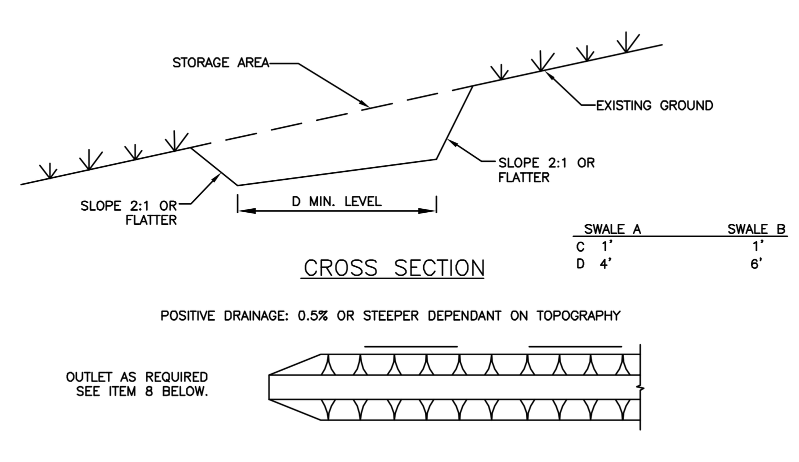
NOT TO SCALE



OUTLET STRUCTURES CHART				
Pond	Low Flow Orifice		2nd Orifice	
	Diameter	Elevation	Opening	Elevation
1B	6"	384.7	5.00'x2.50'	385.4
2B	3"	387.6	6.00'x2.00'	388.8
3B	6"	390.4	3.00'x1.00'	390.8
3C	3"	378.4	3.00'x1.00'	378.8

NOTES:

1. THE CONTRACTOR SHALL SUBMIT SHOP DWGS. FOR EACH STRUCTURE FOR THE ENGINEERS APPROVAL PRIOR TO FABRICATION.
2. STRUCTURE SHALL BE CERTIFIED AS CONFORMING TO ASTM-C913 LATEST REVISION.
3. STEPS NOT REQUIRED FOR STRUCTURES LESS THAN 4' DEEP.
4. PLATE SHALL BE ATTACED TO THE OUTLET W/ 4-1/2" CONCRETE ANCHOR BOLTS



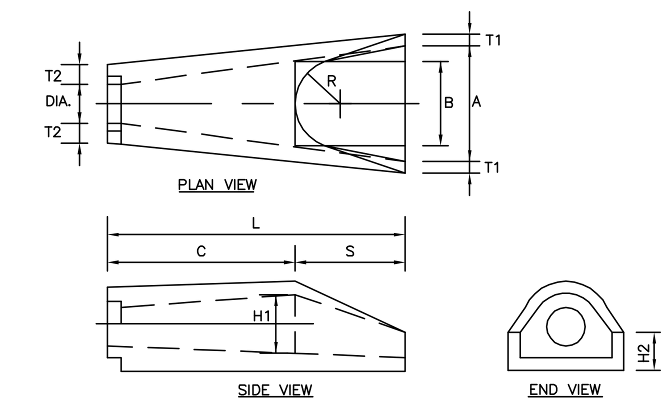
	SWALE A	SWALE B
C	1'	1'
D	4'	6'

CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT
7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW.

TYPE OF TREATMENT	CHANNEL GRADE	A(5 AC. OR LESS)	B(5 AC -10AC)
1	0.5%-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1%-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1%-8.0%	SEED WITH JUTE OR EXCELSIOR SOD	LINED WITH 4-8" RIP-RAP
4	8.1%-20.%	LINED WITH 4-8" RIP-RAP	RECYCLED CONCRETE EQUIVALENT ENGINEERED DESIGN

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.



DIA.	A	B	C	T1	T2	H1	H2	L	S	R
24	48	33 3/16	30	4 1/2	4 1/2	25	9 1/2	73 1/2	43 1/2	14

REVISION NO.	DATE	REVISION
2	5/5/08	DEIS RE-SUBMISSION
1	10/30/07	DEIS SUBMISSION

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GRAPHIC SCALE IN FEET

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DETAILS (SHEET 2 OF 4)
BASHER KILL SUBDIVISION
ORANGE COUNTY HOLDINGS LLC

TOWN OF DEERPARK — ORANGE COUNTY — NEW YORK

PROJECT NO	DATE
0403734	09/29/06
DRAWN BY	DESIGNED BY
JP	K.C.
SCALE	CHECKED BY
N.T.S	D.M.
SCHOOR DEPALMA	
SHEET NO. 45 of 47	