

TOP EL=303.80

ELEV.=7" Orifice El=302.4

ELEV.=4" Orifice El=301.9

100 FLOOD ELEV.=303.85

INSTALL 4" MONITORING WELL W/SCREW CAP

EI=301.0

Bot. El= 299.5

12" MIN SAND BOTTOM

SEASON HGV=297.5 (TP 19-5)

- NOTES:**
1. THE AREA BELOW THE INFILTRATION SYSTEM AND 5 FEET BEYOND THE DETENTION LIMIT IS TO BE EXCAVATED AND ALL DELETERIOUS MATERIAL REMOVED TO THE DEPTH OF THE NATURAL PARENT MATERIAL. REWORK PERIOD SHALL BE DIRECTED TO THE DETENTION BASIN.
 2. NO CONSTRUCTION PERIOD RUNOFF SHALL BE DIRECTED TO THE DETENTION BASIN.
 3. DO NOT DIRECT STORMWATER RUNOFF TO BASIN UNTIL SIDE SLOPES ARE STABILIZED AND BASIN HAS BEEN ASBUILT AND APPROVED BY PROFESSIONAL ENGINEER AND CONSERVATION COMMISSION.

LIMIT OF EXCAVATION
 ALL DELETERIOUS MATERIAL MUST BE REMOVED FROM THE AREA OF THE INFILTRATION SYSTEMS AND OTHER DESIGNATED LIMITS AND FILLED WITH APPROVED, CLEAN, GRANULAR SAND. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES AND BE GRADED SO NOT MORE THAN 45% OF THE SAMPLE IS RETAINED IN A #4 SIEVE, OF THAT PASSING, 20% OR LESS SHALL PASS A #100 SIEVE AND 5% OR LESS SHALL PASS THE #200 SIEVE. NOT MORE THAN 90% SHALL BE RETAINED ON THE #50 SIEVE.

12" FOOTING BEYOND WALL (TYP.)

GALV. STEEL GRATE TO BE BOLTED

ELEV.=303.90

7" Orifice El=302.4

4" Orifice El=301.9

4' SQUARE

12" INV=299.0

ELEV.=298.5

6" OF 3/4" CRUSHED STONE BASE

SECTION C-C

3/4" CRUSHED STONE

TOP DIKE EL=305.0

TOP WALL = 304.5

HEIGHT VARIES

REDI-ROCK RETAINING WALL OR APPROVED EQUAL
GEOTEXTILE FILTER FABRIC MIRAFI 140N OR EQUAL

BASIN CORE MATERIAL:
 -Use Coxy Glecio III
 -Not less than 40% passing
 -Material to be placed in 12" loose lifts & minimum 95% compaction
 -around outlet pipe collar
 Sieve Specification (Passing)
 4 inch 100%
 No. 200 35-60%

12" RCP S=0.08

L=42±

24±

EMBED CORE INTO PARENT MATERIAL (C-LAYER)

BASIN BOTTOM EXCAVATION:
 ALL TOP SOIL SUBSISTING ANY DELETERIOUS MATERIAL MUST BE REMOVED FROM THE BOTTOM OF THE DRAINAGE BASIN AND FILLED WITH APPROVED, CLEAN, GRANULAR SAND. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES AND BE GRADED SO NOT MORE THAN 45% OF THE SAMPLE IS RETAINED IN A #4 SIEVE, OF THAT PASSING, 20% OR LESS SHALL PASS A #100 SIEVE AND 5% OR LESS SHALL PASS THE #200 SIEVE.

NOTE: SAND BOTTOM SHALL EXTEND TO ELEV=301.0 (SEE PLAN VIEW)

- NOTES:**
- SUBSOIL CONDITIONS SHALL BE OBSERVED PRIOR TO INSTALLATION OF THE INFILTRATION BASIN.
 - CARE SHALL BE TAKEN TO PREVENT COMPACTION OF THE FINAL BASIN BOTTOM. USE DEEP TILLING TO BREAK UP COMPACTED SURFACES, SHOULD IT OCCUR.
 - CONDUITS AND SUMPIS ARE TO BE FULLY REMOVED FROM THE AREA OF THE INFILTRATION BASIN TO ENSURE PROPER FUNCTION.

2/5/2021



OUTLET STRUCTURE/DRAINAGE BASIN DETAIL

(PRECAST CONCRETE STRUCTURE)
 NOT TO SCALE

GEOTECH REVIEW