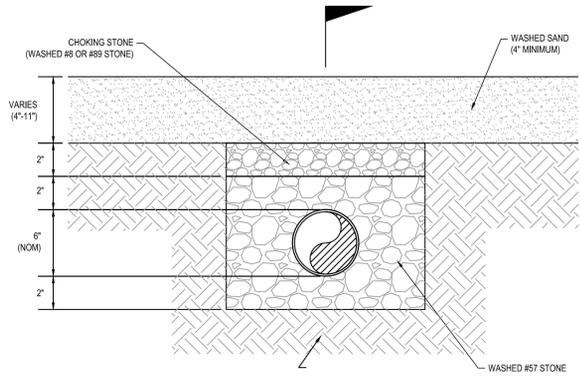
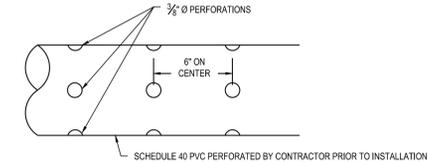


BIORETENTION MEDIA SECTION
NOT TO SCALE

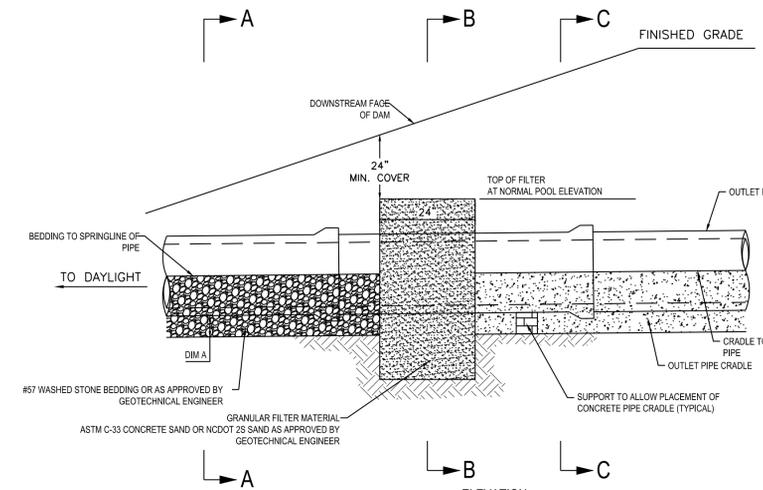


BIORETENTION UNDERDRAIN TRENCH DETAIL
NOT TO SCALE

- NOTES:
1. UNDERDRAINS SHALL BE CONSTRUCTED FROM SCHEDULE 40 PVC.
 2. ALL UNDERDRAINS MUST HAVE A MINIMUM OF 1.0% SLOPE
 3. FOUR ROWS OF PERFORATIONS SHALL BE PROVIDED FOR PIPE SIZES UP TO 10.0\"/>



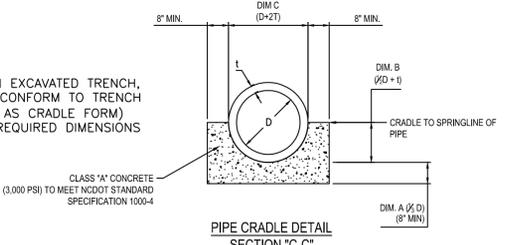
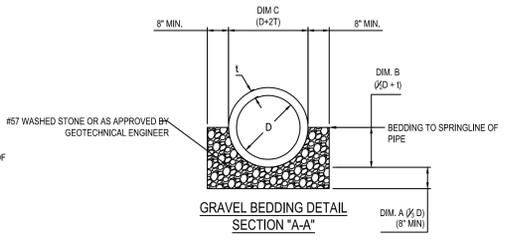
PERFORATED UNDERDRAIN DETAIL
NOT TO SCALE



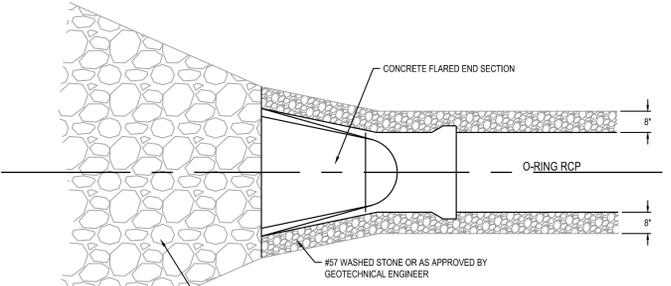
OUTLET PIPE FILTER DIAPHRAGM and CONCRETE PIPE CRADLE DETAIL
NOT TO SCALE

NOMINAL PIPE SIZE	DIM A (1/3 D)	DIM B (1/2 D + 6)	DIM C (D + 2)	DIM D (PIPE ID)	DIM E (DIM A + 12')	DIM 1 (WALL)
24	8	7	30	24	20	3
30	10	8.5	37	30	22	3.5
36	12	10	44	36	24	4
42	14	11.5	51	42	26	4.5
48	16	13	58	48	28	5

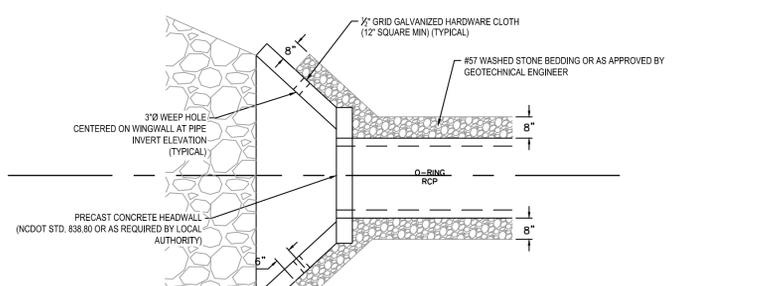
24" MINIMUM PIPE DIAMETER
ALL DIMENSIONS IN INCHES



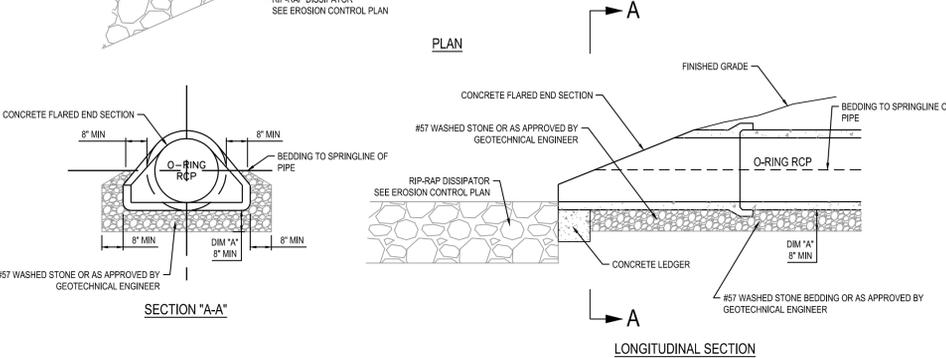
NOTE:
IF PIPE IS INSTALLED IN EXCAVATED TRENCH, THEN SIDE WALLS MAY CONFORM TO TRENCH (TRENCH MAY BE USED AS CRADLE FORM) SO LONG AS MINIMUM REQUIRED DIMENSIONS ARE MAINTAINED



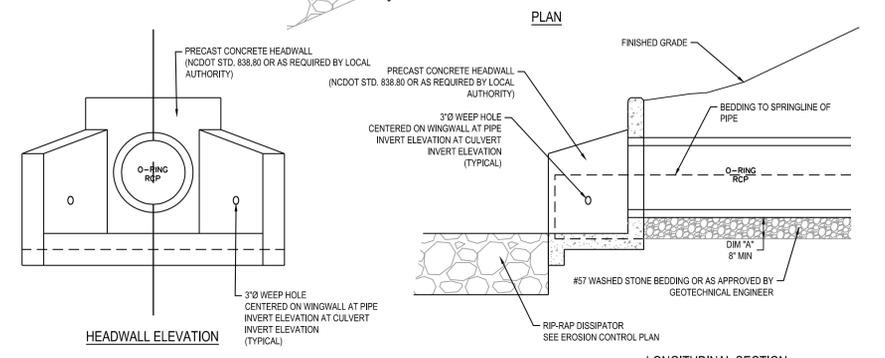
OUTLET PIPE FILTER DIAPHRAGM OUTLET DETAIL (FLARED END SECTION)
NOT TO SCALE



OUTLET PIPE FILTER DIAPHRAGM OUTLET DETAIL (PRECAST HEADWALL)
NOT TO SCALE



LONGITUDINAL SECTION



LONGITUDINAL SECTION

STORMWATER CONTROL MEASURE (SCM) NOTES:

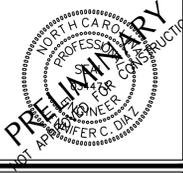
1. PRIOR TO BEGINNING CONSTRUCTION, ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER FOR RESOLUTION.
2. THIS PROJECT WILL MEET ALL OF THE REQUIREMENTS RELATIVE TO BEST MANAGEMENT PRACTICES AND ENGINEERED STORMWATER CONTROL STRUCTURES AS OUTLINED IN THE TOWN OF CARY LAND DEVELOPMENT ORDINANCE (CHAPTER 4, PART 4.6, LDO).
3. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF CARY STANDARDS AND SPECIFICATIONS.
4. GEOTECHNICAL ENGINEER SHALL EVALUATE SOILS ONSITE FOR SUITABILITY OF DAM CONSTRUCTION, AND, SLOPE STABILITY.
5. DURING CONSTRUCTION, THE SCM MAY BE USED AS AN EROSION CONTROL DEVICE. THE FOREBAY WILL NOT BE REQUIRED WHILE SCM IS ACTING AS AN EROSION CONTROL DEVICE.
6. ALL PERMANENT STRUCTURES (I.E. RISER BOX, OUTLET PIPES, ETC.) ARE TO BE INSTALLED WITH THE INITIAL DAM CONSTRUCTION.
7. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING STRUCTURES.
8. ONCE THE SITE HAS BEEN STABILIZED, CONTRACTOR SHALL OBTAIN APPROVAL BY EROSION CONTROL INSPECTOR IN ORDER TO REMOVE EROSION CONTROL DEVICES.
9. ONCE ALL SEDIMENT AND EROSION CONTROL DEVICES HAVE BEEN REMOVED, THE DEVICE SHALL BE CONVERTED TO A PERMANENT SCM.
 - ALL SEDIMENT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
 - THE DEVICE IS TO BE CONVERTED TO A BIORETENTION AREA. FOLLOW CONVERSION INSTRUCTION AS DETAILED IN THE BIORETENTION AREA NOTES ON THIS SHEET.
 - THE BIORETENTION AREA IS TO BE PLANTED PER THE LANDSCAPE PLAN ON SHEET L1.0.
 - TOWN OF CARY REQUIRES FINAL CERTIFICATION OF SCM BY PROFESSIONAL ENGINEER.

BIORETENTION AREA NOTES:

1. THE SCM SHALL BE CONVERTED TO A BIORETENTION AREA ONLY AFTER THE SITE HAS BEEN STABILIZED.
 2. BIORETENTION AREA MEDIA SECTION TO COVER ENTIRE PLANTING SURFACE. BIORETENTION AREA MEDIA TO BE COMPRISED OF THE FOLLOWING:
 - 85% - 88% WASHED SAND-ASTM C.33. AASHTO M.6 OR NCDOT CLASS III FINE AGGREGATE.
 - 8% - 12% FINES (CLAY & SILT)
 - 3% - 5% ORGANIC MATTER
 - PHOSPHORUS INDEX (P-INDEX) SHALL BE BETWEEN 10 AND 30.
 - THE MEDIA INFILTRATION RATE SHALL BE 1 IN./HR. TO 6 IN./HR. 1 IN./HR. IS PREFERRED.
 3. CONTRACTOR TO PROVIDE SOIL TEST DATA AND SAMPLES, FROM AN APPROVED TESTING LABORATORY, TO THE ENGINEER PRIOR TO CONSTRUCTION.
 4. BIORETENTION SHALL BE PLANTED PER LANDSCAPE PLAN ON SHEET L1.0.
 5. NO FERTILIZER IS TO BE ADDED.
- * REFER TO ##### FOR PLANTING REQUIREMENTS.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF PITTSBORO AND NCDOT STANDARD DETAILS AND SPECIFICATIONS, LATEST REVISIONS.

APPROVED FOR CONSTRUCTION
TOWN OF PITTSBORO



Revisions

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