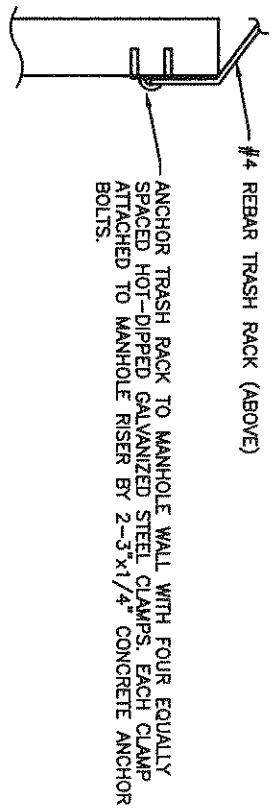
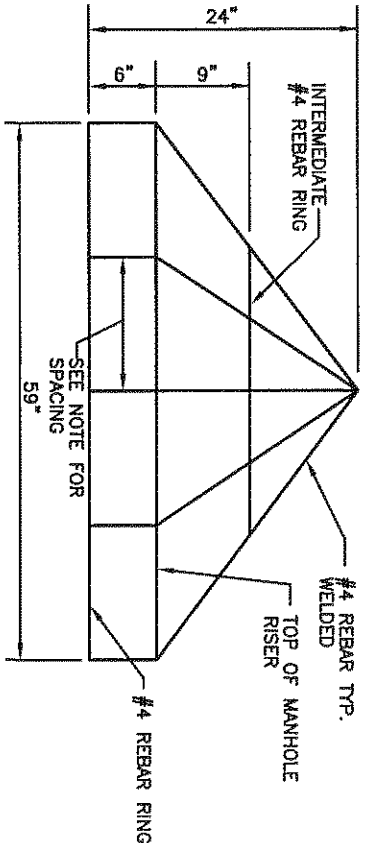


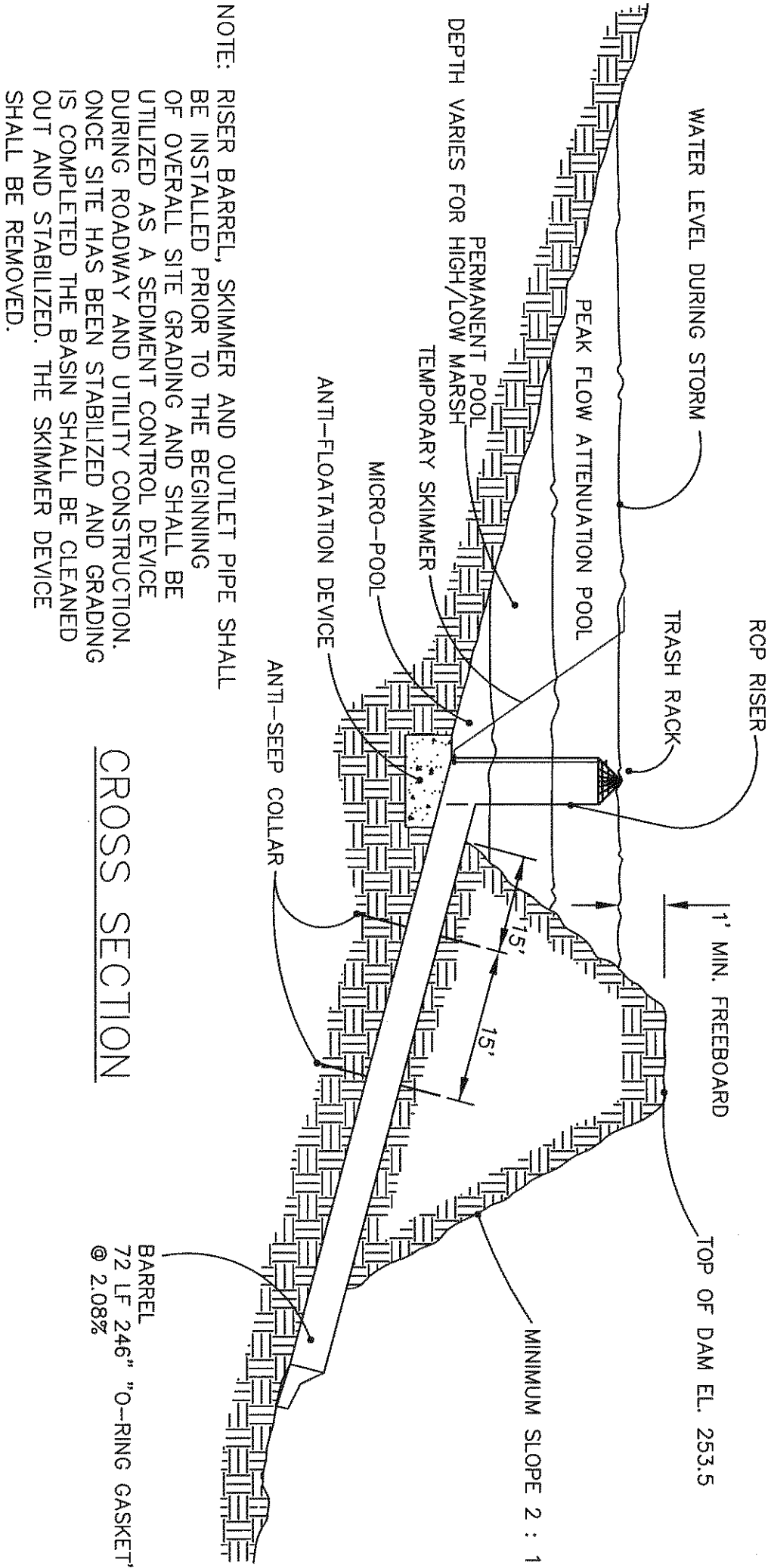
EMERGENCY SPILLWAY

N/S



NOTE: ON TRASH RACK REBAR SPACING BARS (14 OPEN SPACES) AROUND MANHOLE RISER. (EACH SPACE = 13.2\"/>

TRASH RACK DETAIL (NTS)



NOTE: RISER, BARREL, SKIMMER AND OUTLET PIPE SHALL BE INSTALLED PRIOR TO THE BEGINNING OF OVERALL SITE GRADING AND SHALL BE UTILIZED AS A SEDIMENT CONTROL DEVICE DURING ROADWAY AND UTILITY CONSTRUCTION. ONCE SITE HAS BEEN STABILIZED AND GRADING IS COMPLETED THE BASIN SHALL BE CLEANED OUT AND STABILIZED. THE SKIMMER DEVICE SHALL BE REMOVED.

CROSS SECTION

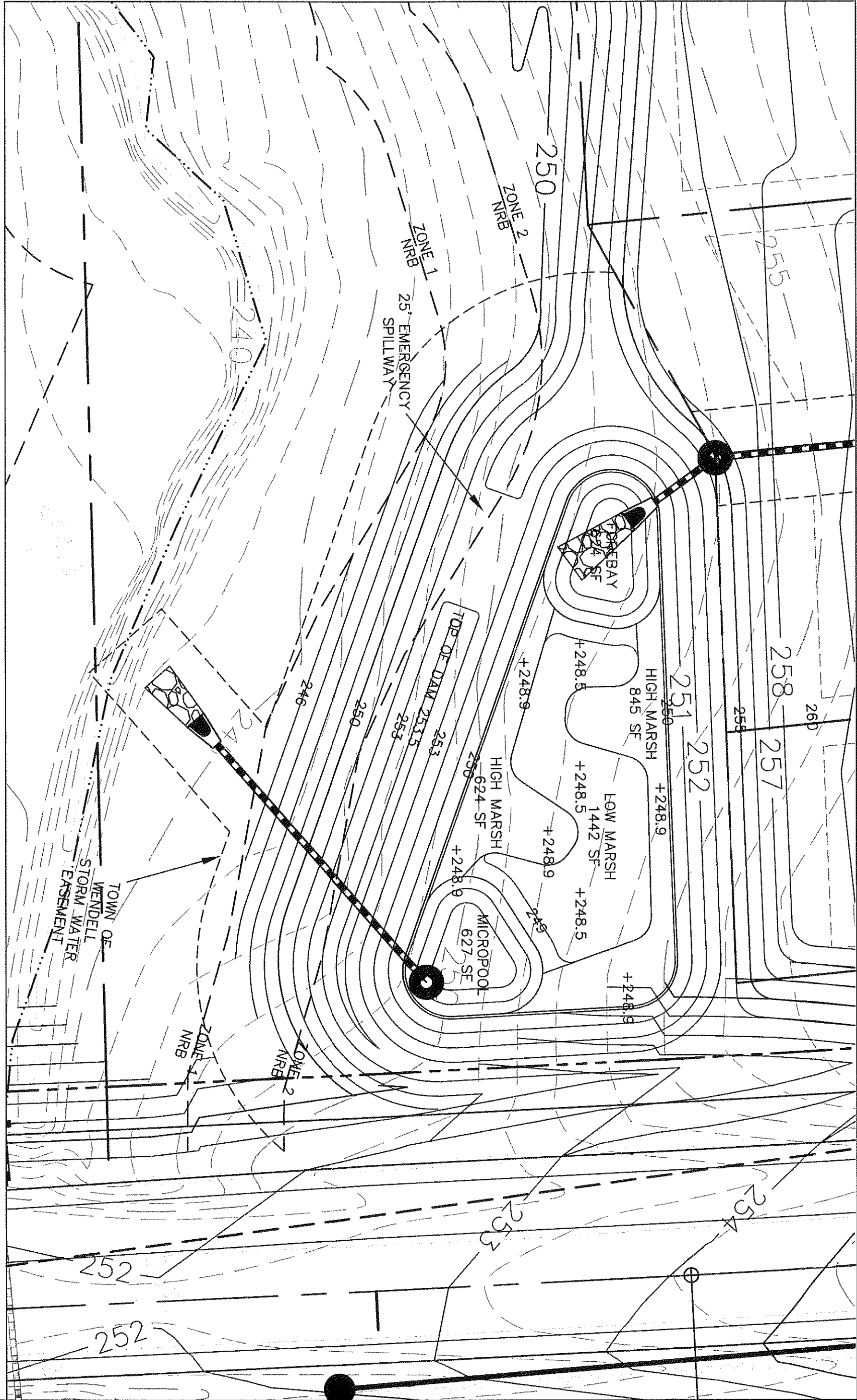
CONSTRUCTED WETLANDS DESIGN

	DIMENSIONS	ELEV.
NORMAL POOL	4,149 SF	249.83
POND BOTTOM	2,987 SF	247.53
TOP OF DAM WIDTH	5 FT.	253.50
ANTI-SLEEP COLLAR	72" x 72"	N/A
1-YEAR STORM ORFICE	1" ORFICE	249.83
RISER - DIA AND TOP	4' DIA	251.50
OUTLET PIPE INVERT IN	24" RCP	246.00
OUTLET PIPE INVERT OUT	24" RCP	244.50

STORMWATER CONSTRUCTED WETLAND PLANT SCHEDULE

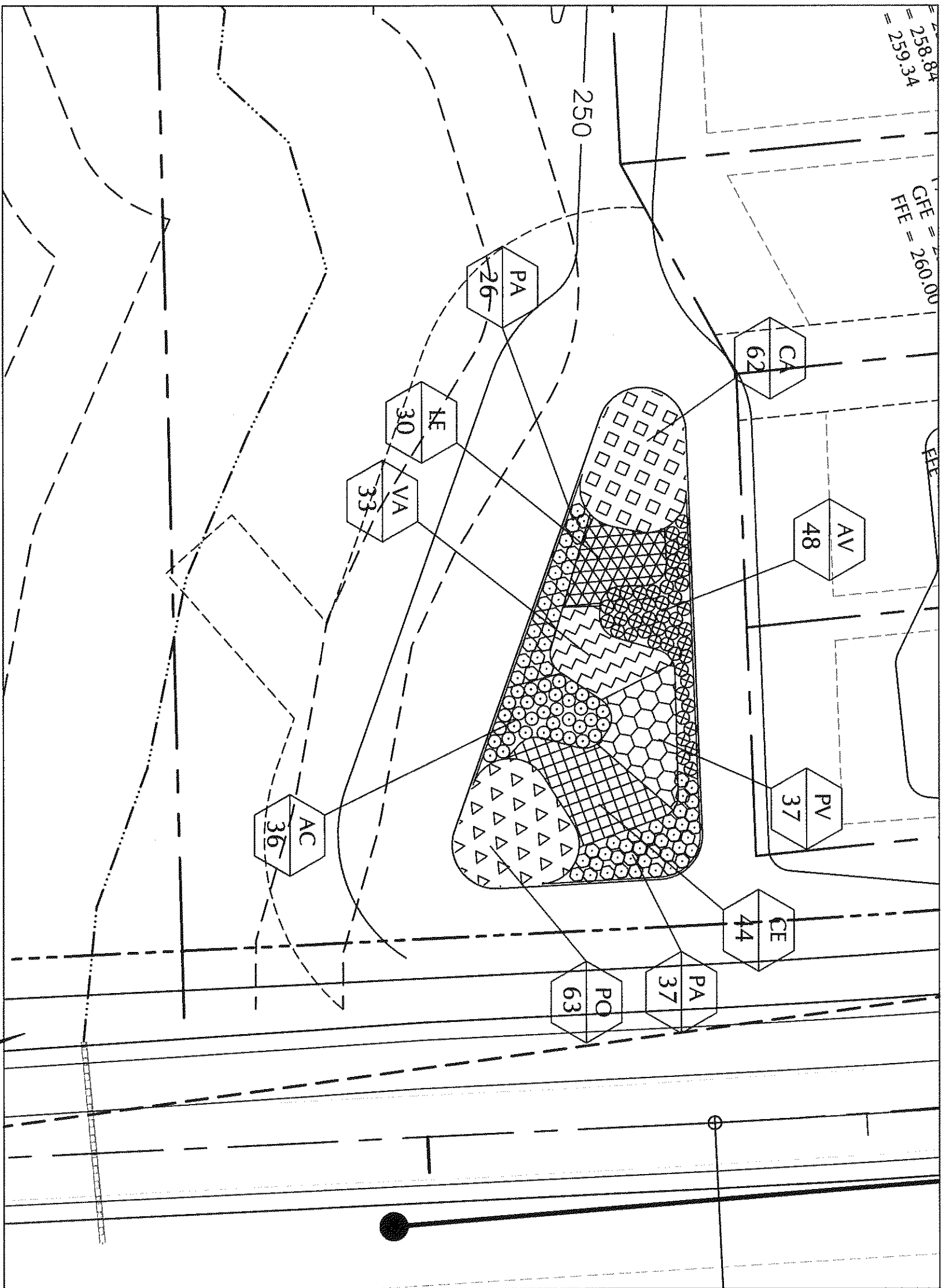
ZONE 1

62	CA	Carex spp.	Sedges
44	CE	Ceratophyllum demersum	Crotonial
30	LE	Lernaea sp.	Duckweed
63	LV	Lemma sp.	Pondweed
33	VA	Valisneria spiralis	Arrowweed
33	VA	Valisneria spiralis	Wild Celery
38	AC	Acrostichum sp.	Sweet Flag
48	AV	Andropogon virginicus	Broomsedge
63	PA	Panicum virginicum	Switchgrass



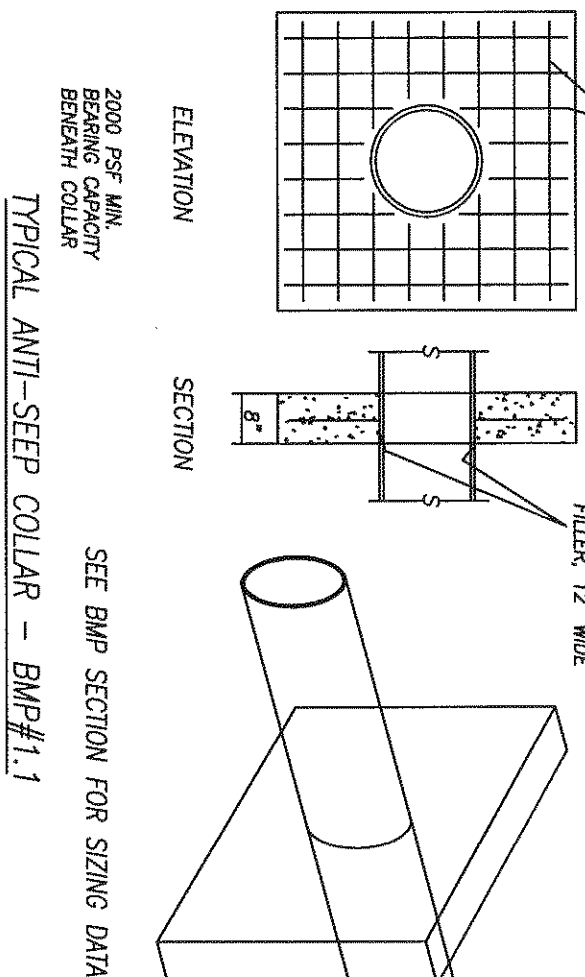
BMP #1.1 - CONSTRUCTED WETLANDS

SCALE: 1" = 20'



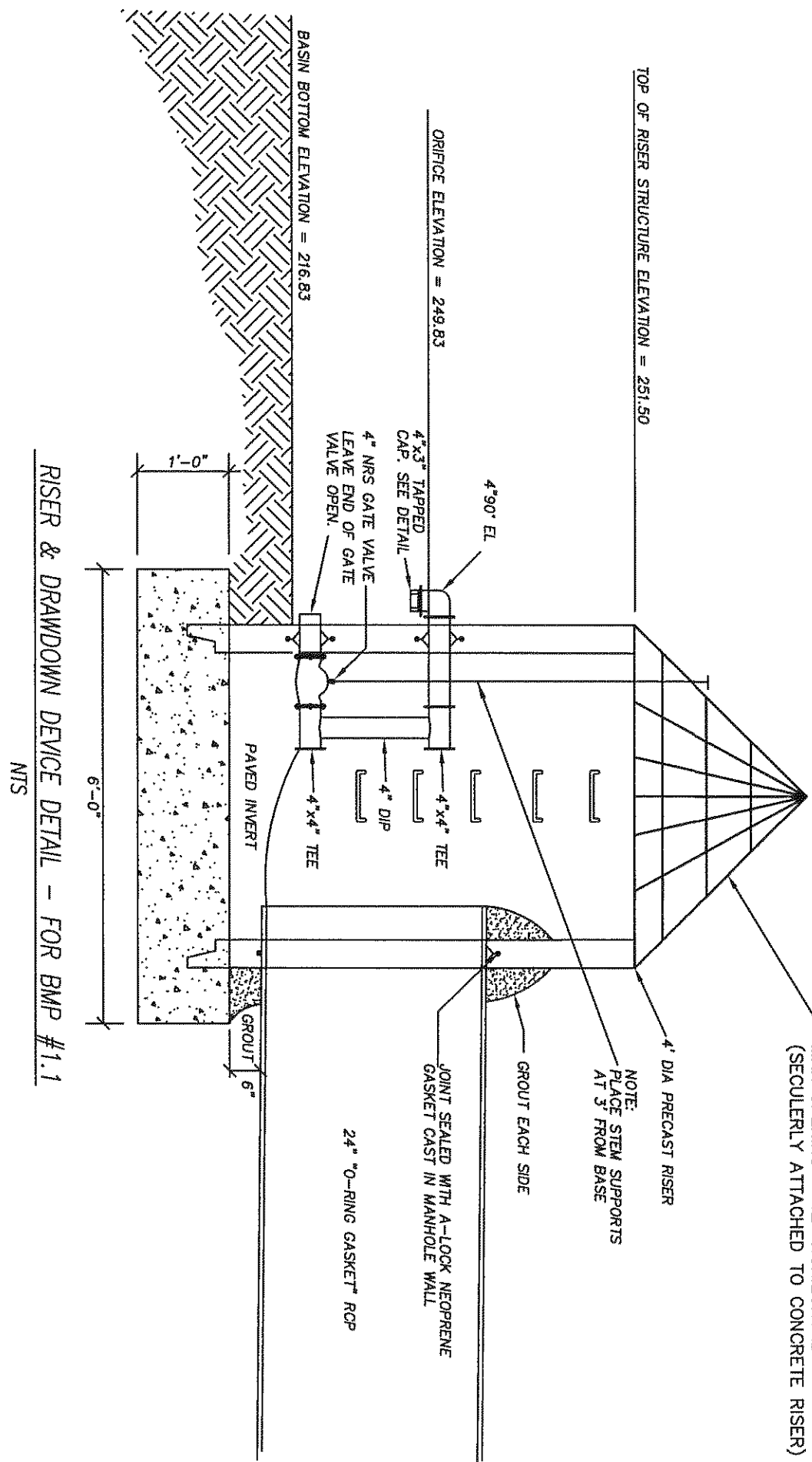
BMP #1.1 - PLANTING SCHEDULE

SCALE: 1" = 20'



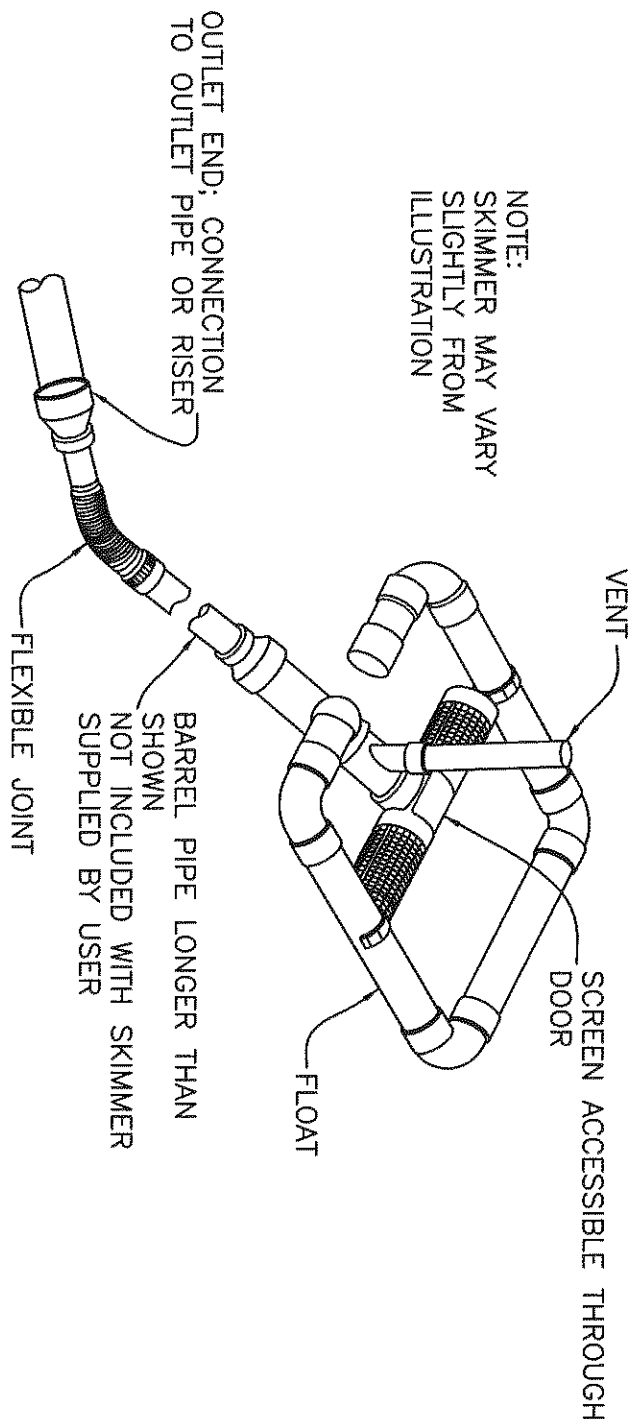
SEE BMP SECTION FOR SIZING DATA

TYPICAL ANTI-SLEEP COLLAR - BMP#1.1



RISER & DRAWDOWN DEVICE DETAIL - FOR BMP #1.1

N/S



BMP SKIMMER DETAIL - BMP#1.1 (FOR SEDIMENTATION & EROSION CONTROL)

N/S

CONSTRUCTED WETLANDS NOTES:

1. IF WETLAND WAS USED AS SEDIMENTATION BASIN OR TRAP, BASIN MUST BE DESIGNED TO ALLOW FOR SEDIMENTATION AND REMOVAL OF SEDIMENT.
2. SUBSURFACE SHALL BE COMPACTED CLAY TO MANHOLE INLET/OUTLET RATE.
3. IN AREAS TO BE TO BE PLANTED 3 TO 6 INCHES SHALL BE ADDED TO ALL DEPTH ZONES IN THE WETLAND FROM 1 FOOT BELOW TO 6 INCHES ABOVE THE NORMAL WATER SURFACE.
4. WETLAND BASIN SHALL BE STABILIZED WITH HYDROSEED OR OTHER METHOD TO ESTABLISH VEGETATION COVER IN THE WETLAND BASIN WITHIN 14 DAYS OF INSTALLATION. FROM TO HYDROSEEDING, SOIL SHALL BE COVERED IN AT LEAST ONE INCH OF MULCH.
5. WETLAND BASIN SHALL BE FULLY OPENED FOR NO MORE THAN 3 DAYS PRIOR TO THE 14 DAY MULCH APPLICATION FROM LOCAL NURSERY AT LEAST 3 MONTHS IN ADVANCE OF PLANTING.
6. PLANTING SEEDS SHALL BE FROM EARLY APRIL TO MID-JUNE. SOME SPECIES MAY REQUIRE WINTERING.
7. SOURCE NURSERY SHALL BE CONSULTED FOR OPTIMAL PLANT SPACING.
8. PRIOR TO PLANTING, WETLAND SHALL BE STAKED AS TO ITS RESPECTIVE DEPTHS AND POST-ANNUITY CARE OF WETLANDS SHALL INCLUDE FREQUENT WEEDING, FERTILIZING, AND SHADE UNTIL THE PLANTS ARE PLACED IN THEIR RESPECTIVE WETLAND AREAS.
9. PLANTS SHALL BE PLANTED IN ACCORDANCE WITH STANDARD NURSERY PRACTICES.
10. PLANTS SHALL BE PLANTED IN ACCORDANCE WITH STANDARD NURSERY PRACTICES.
11. PLANTS SHALL BE PLANTED IN ACCORDANCE WITH STANDARD NURSERY PRACTICES.
12. ESTABLISHED. IN DRY PERIODS, WATER SHALL BE ADDED TO MAINTAIN MOIST CONDITIONS IN WETLAND AREA SHALL BE 4\"/>
13. ALL PLANTS IN WETLAND AREA SHALL BE 4\"/>
14. ALL PLANTS SHALL BE PLANTED AT LEAST 10\"/>



WENDELL FALLS - SF1

Wake County

North Carolina

STORMWATER MANAGEMENT PLAN

BMP # 1.1

WITHERS & RAVENEL
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Sheet No.
SW 1.1