

WETLAND SOIL MIX

ADD 12" OF TOPSOIL THROUGHOUT STORMWATER WETLAND AREA. TOPSOIL SHALL BE PLACED WITHIN THE SHALLOW LAND, SHALLOW WATER AND DEEP POOL AREAS AND ADHERE TO THE FOLLOWING REQUIREMENTS:

1. THE SOIL MUST BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES.
2. SOIL TEXTURE SHALL BE A LOAMY SAND, WITH NO MORE THAN 10% CLAY (USDA SOIL TEXTURAL CLASSIFICATION).
3. A MINIMUM ORGANIC CONTENT OF 10% BY DRY WEIGHT.
4. THE PH SHALL BE BETWEEN 5.5 AND 7.0.

DETENTION WETLAND PLANTING SCHEDULE

SHALLOW LAND SHRUBS			
KEY	QTY	PLANT NAME	SIZE
CO	39	CEPHALANTHUS OCCIDENTALIS - BUTTOMBUSH	1-GAL CONT.
SC	27	SAMBUCUS CANADENSIS - ELDERBERRY	PLANT 5" O.C.
CA	39	CLETHRA ALNIFOLIA - SWEET PEPPERBUSH	
IV	50	ITEA VIRGINICA 'HENRY'S GARNET' - SWEETSPIRE	
AA	27	ARONIA ARBUTIFOLIA 'BRILLIANTISSIMA' - CHOKEBERRY	

SHALLOW WATER PLANT LIST			
PV	352	PELTANDRA VIRGINIANA - ARROW ARUM	LARGE PLUGS (MIN. 6 CUBIC INCHES)
PC	352	PONTEDERIA CORDATA - PICKEREL WEED	SPACE 2' O.C.
AB	353	ACORUS SUBCORDATUM - SWEETFLAG	
SC	353	SAURURUS CERINUS - LIZARD'S TAIL	
JE	353	JUNCUS EFFUSUS - SOFT RUSH	

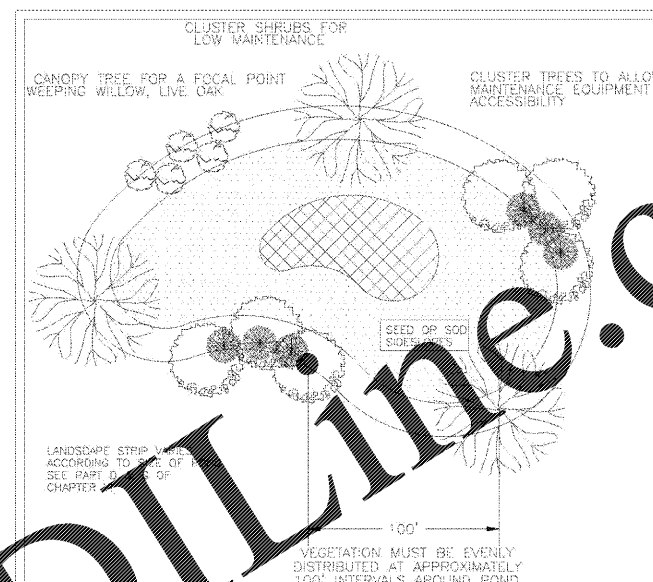
SHALLOW LAND PLANT LIST			
CS	172	CAREX STRICTA - TUSSOCK SEDGE	LARGE PLUGS (MIN. 6 CUBIC INCHES)
AS	172	ASCLEPIAS INCARNATA - SWAMP MILKWEED	SPACE 2' O.C.
IV	172	IRIS VIRGINICA - BLUE FLAG IRIS	
LC	172	LOBELIA CARDINALIS - CARDINAL FLOWER	
SL	173	SAGITTARIA LANCFOLIA - BULL-TONGUE ARROWHEAD	

DEEP POOL AND MICRO POOL PLANT LIST			
113	SAGITTARIA LANCFOLIA - BULL-TONGUE ARROWHEAD	LARGE PLUGS (MIN. 6 CUBIC INCHES)	
113	NUPHAR LUTEA - SPATTERDOCK		
113	NYMPHAEA ODORATA - WATERLILY		
114	NELUMBO LUTEA - AMERICAN LOTUS		

SD - TURTLE BERMUDA

NOTES

1. WETLAND AREA SHALL BE DRAINED ONE DAY PRIOR TO PLANTING.
2. LANDSCAPE ARCHITECT TO APPROVE ALL LOCATIONS IN FIELD.
3. PLACE PLANTINGS IN DESIGNATED AREA BY SPECIES IN GROUPINGS OF 10 PLANTS OR MORE.
4. SEE SHEET C716 FOR MORE INFORMATION.
5. SOODED AREA SHALL NOT BE MOWED AT SLOPES.
6. INSTALL 3" OF HARDWOOD MULCH IN SHALLOW LAND AREAS.



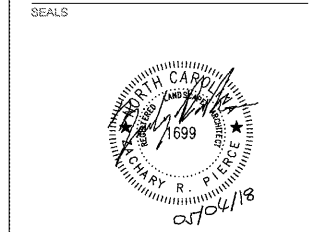
Notes:
 1. If possible, locate pond where vegetation exists. Suggest minimal clearing to conserve visual quality of site and minimize the additional areas planting. An irregular shape provides a more natural appearance. Landscape strip shall be a maximum slope of 7:1 in order to plant vegetation.
 4. Provide a minimum of 3 inches of mulch around all vegetation.

STANDARD DETAIL
 DATE: JULY 2008
 DRAWN BY: JSR
 CHECKED BY: B.P.P.E.
 SCALE: NOT TO SCALE
 CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
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 SD 15-16

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 HAYNES / LACEWELL
 POLICE AND FIRE
 TRAINING FACILITY
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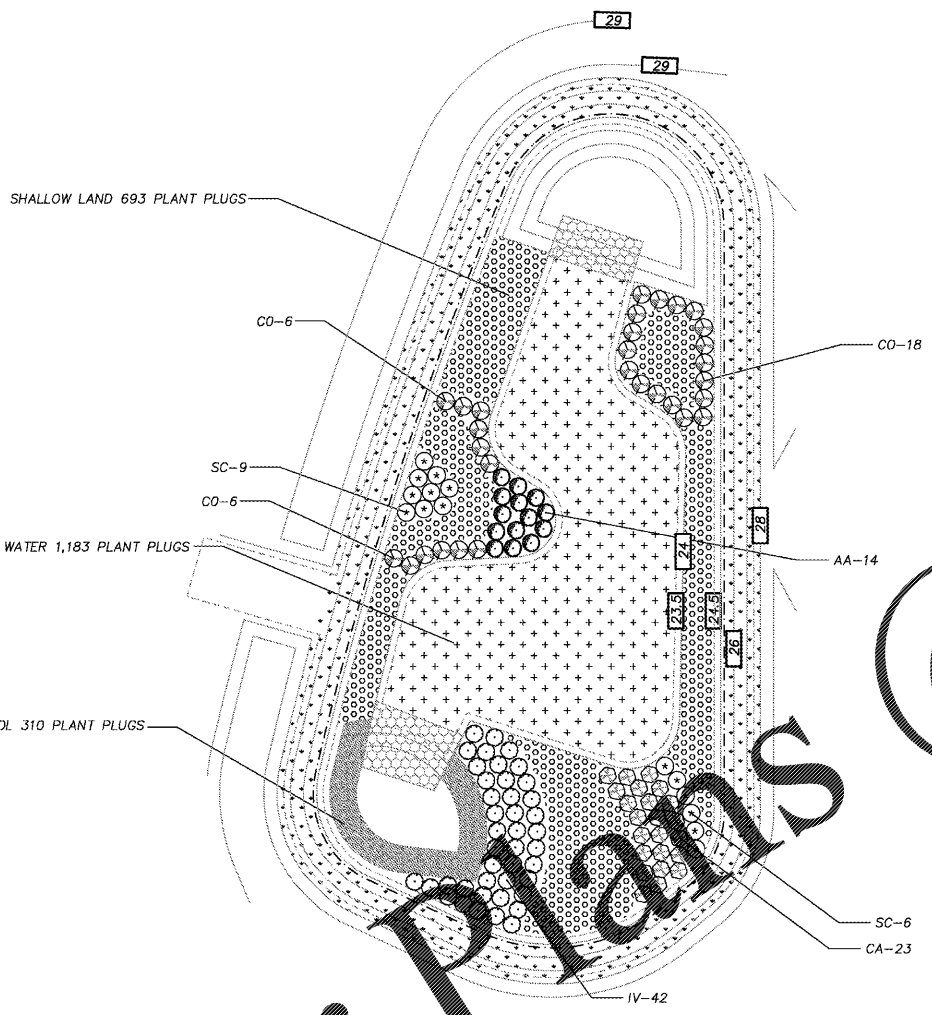


SUBMITTAL
 4 MAY 2018
 CONSTRUCTION DOCUMENTS

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____
 APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING	_____
TRAFFIC	_____
FIRE	_____

SHEET
 DETAILS
C718
 DESIGN: ZRP
 DRAWN: YA, DL
 REVIEW: ZRP, KAL
 CN 5938
 CLH 18-161

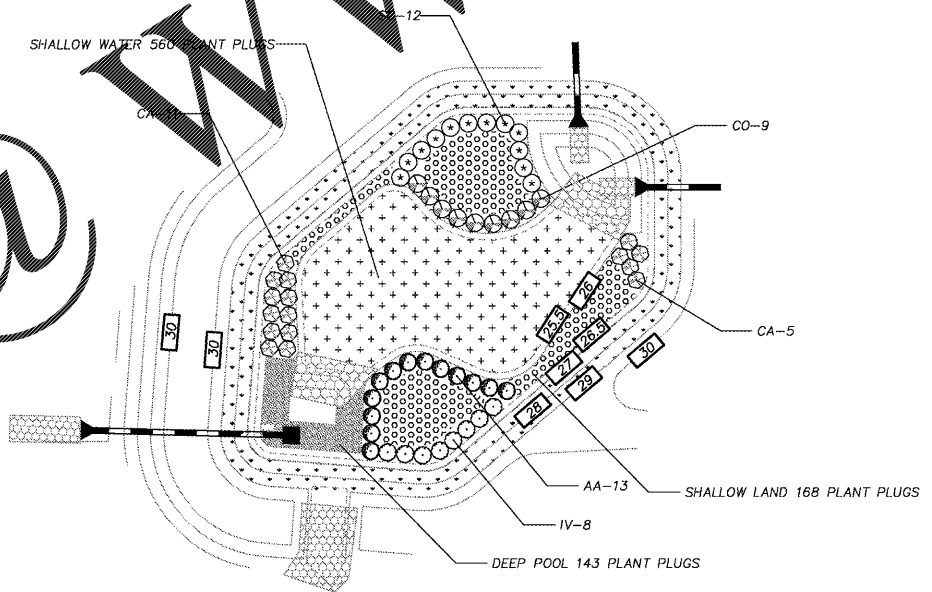


SCM-1 STORMWATER WETLAND PLAN VIEW
 1"=20'

SCM-1 PLANT CALC

SHALLOW WATER ZONE SQUARE FOOTAGE:	4,810 SF
PLANTING REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF: (4,810/200)X50 = 1,202.5 PLANTS	
PLANTING PROVIDED:	1,203 PLANTS
TEMPORARY INUNDATION ZONE SQUARE FOOTAGE:	5,870 SF
PLANTING REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF:	
PLANTING PROVIDED:	8 SHRUBS PER 200 SF.

PLANTING PROVIDED:
 THIS DESIGN PROPOSES A COMBINATION OF SHRUBS AND HERBACEOUS PLANTS. THE SHRUB REQUIREMENT IS 8 PER 200 SQUARE FEET, 200 DIVIDED BY 8 EQUALS 25 WHICH MEANS THAT 1 SHRUB EQUALS 25 SQUARE FEET. THERE ARE 124 SHRUBS PROPOSED. 124 TIMES 25 EQUALS 3,100 SF OF SHRUB AREA. THIS LEAVES 2,770 SF REMAINING FOR HERBACEOUS PLANTS. 2,770 DIVIDED BY 200 THEN MULTIPLIED BY 50 EQUALS 692.5. 693 HERBACEOUS PLANTS ARE PROPOSED TO MEET THE DESIGN REQUIREMENTS.



SCM-2 STORMWATER WETLAND PLAN VIEW
 1"=20'

SCM-2 PLANT CALC

SHALLOW WATER ZONE SQUARE FOOTAGE:	2,240 SF
PLANTING REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF: (2,240/200)X50 = 560 PLANTS	
PLANTING PROVIDED:	560 PLANTS
TEMPORARY INUNDATION ZONE SQUARE FOOTAGE:	2,120 SF
PLANTING REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF:	
PLANTING PROVIDED:	8 SHRUBS PER 200 SF.

PLANTING PROVIDED:
 THIS DESIGN PROPOSES A COMBINATION OF SHRUBS AND HERBACEOUS PLANTS. THE SHRUB REQUIREMENT IS 8 PER 200 SQUARE FEET, 200 DIVIDED BY 8 EQUALS 25 WHICH MEANS THAT 1 SHRUB EQUALS 25 SQUARE FEET. THERE ARE 58 SHRUBS PROPOSED. 58 TIMES 25 EQUALS 1,450 SF OF SHRUB AREA. THIS LEAVES 670 SF REMAINING FOR HERBACEOUS PLANTS. 670 DIVIDED BY 200 THEN MULTIPLIED BY 50 EQUALS 167.5. 168 HERBACEOUS PLANTS ARE PROPOSED TO MEET THE DESIGN REQUIREMENTS.

STORMWATER WETLAND PLANTING N.T.S.

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