

STORMWATER WETLAND PLANTING SCHEDULE

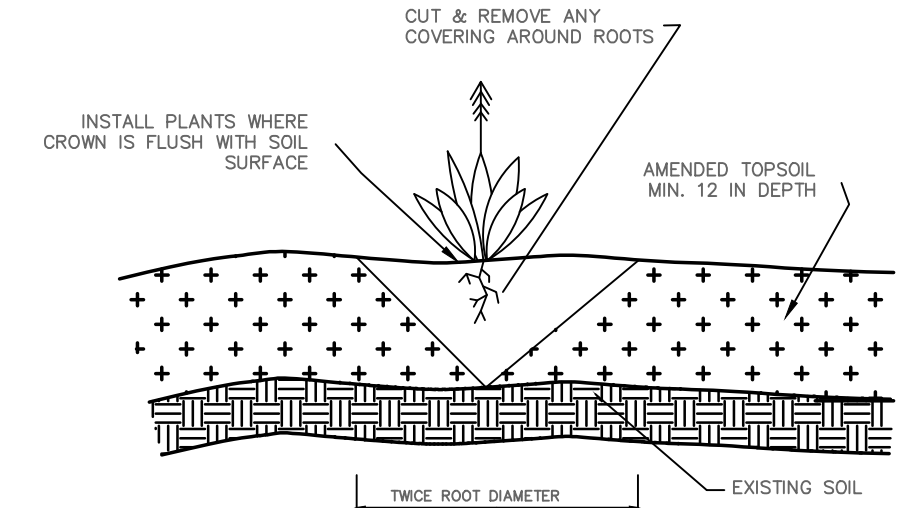
DEEP POOL ZONE: ALLOWABLE PLANT SPECIES						
COMMON NAME	BOTANICAL NAME	DEPTH RANGE (INCHES BELOW NORMAL POOL)	SPACING (O.C., FT)	QUANTITY	PERCENTAGE	SIZE
SPATTERDOCK	NUPHAR POLYSPALUM	6-18	5	60	33%	2 IN PLUG (MIN)
FRAGRANT WHITE LILY	NYMPHAEA LUTEA	6-18	5	60	33%	2 IN PLUG (MIN)
AMERICAN LOTUS	NELUMBO LUTEA	6-18	5	60	33%	2 IN PLUG (MIN)

SHALLOW WATER ZONE: ALLOWABLE PLANT SPECIES						
COMMON NAME	BOTANICAL NAME	DEPTH RANGE (INCHES BELOW NORMAL POOL)	SPACING (O.C., FT)	QUANTITY	PERCENTAGE	SIZE
ARROW ARUM	PELTANDRA VIRGINICA	0-6	3.0	48	10%	PINT
PICKERELWEED	PONTERDERIA CORDATA	0-6	3.0	48	10%	2 IN PLUG (MIN)
DUCK POTATO	SAGITTARIA LATIFOLIA	0-6	3.0	48	10%	BARE ROOT
SOFTSTEM BULRUSH	SCHENOPLECTUS TABERNAMONTANI	0-6	3.0	48	10%	2 IN PLUG (MIN)
SWEETFLAG	ACORUS CALAMUS	0-6	3.0	48	10%	BARE ROOT
THREE WAY SEDGE	DULICHUM ARUNDINACEUM	0-6	3.0	48	10%	BARE ROOT
SPIKERUSH	ELEOCHARIS OBUSA	0-6	3.0	48	10%	2 IN PLUG (MIN)
SOUTHERN BLUE FLAG IRIS	IRIS VIRGINICA	0-6	3.0	48	10%	2 IN PLUG (MIN)
LIZARD'S TAIL	SAURURUS CERNUUS	0-6	3.0	48	10%	3 IN PLUG (MIN)
SOFT RUSH	JUNCUS EFFUSUS	0-6	3.0	48	10%	2 IN PLUG (MIN)

SHALLOW LAND ZONE: ALLOWABLE PLANT SPECIES						
COMMON NAME	BOTANICAL NAME	DEPTH RANGE (INCHES ABOVE NORMAL POOL)	SPACING (O.C., FT)	QUANTITY	PERCENTAGE	SIZE
SWAMP MILKWEED	ASCLEPIAS INCARNATA	0-12	3.0	48	9.0%	2 IN PLUG (MIN)
FRINGED SEDGE	CAREX CRINITA	0-12	3.0	48	9.0%	2 IN PLUG (MIN)
GREAT BLADDER SEDGE	CAREX INTUMESCENS	0-12	3.0	48	9.0%	2 IN PLUG (MIN)
HOP SEDGE	CAREX LUPULINA	0-12	3.0	48	9.0%	2 IN PLUG (MIN)
SHALLOW SEDGE	CAREX LURIDA	0-12	3.0	48	9.0%	2 IN PLUG (MIN)
SCARLET ROSE MALLOW	HIBISCUS COCCINEUS	0-12	3.0	48	9.0%	2 IN PLUG (MIN)
ROSE MALLOW	HIBISCUS MOSCHEUTOS	0-12	3.0	48	9.0%	2 IN PLUG (MIN)
SPIDER LILY	HYMENOCALLIS EULAE	0-12	3.0	48	9.0%	2 IN PLUG (MIN)
SWAMP LILY	CRINUM ERUBESCENS	0-12	3.0	48	9.0%	2 IN PLUG (MIN)
CARDINAL FLOWER	LOBELIA CARDINALIS	0-12	3.0	48	9.0%	2 IN PLUG (MIN)
SWAMP SUNFLOWER	HELIANTHUS ANGUSTIFOLIUS	0-12	3.0	48	9.0%	2 IN PLUG (MIN)

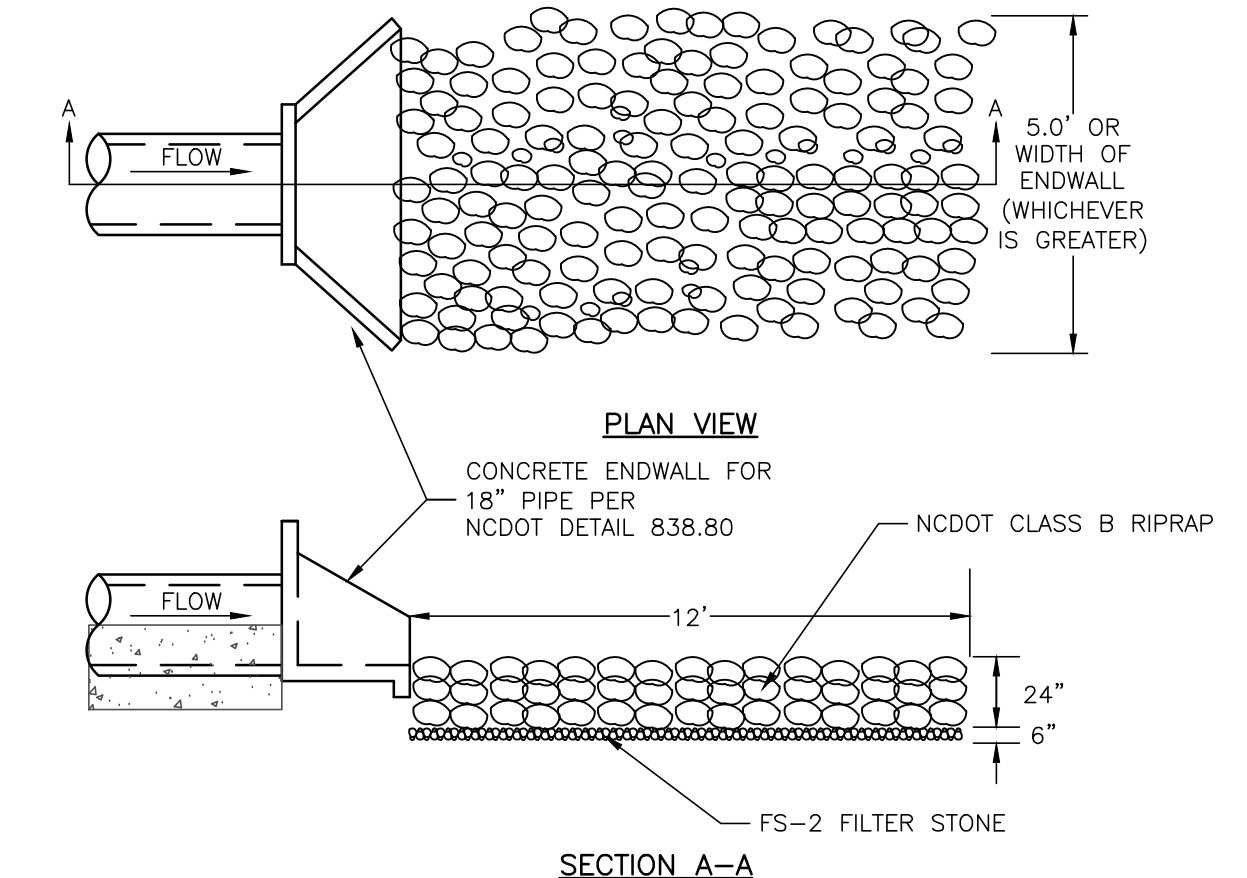
STORMWATER WETLAND PLANTING LEGEND:

- DEEP POOL (6" BELOW - 30" BELOW)
- SHALLOW WATER (NORMAL POOL - 6" BELOW)
- SHALLOW LAND (NORMAL POOL - 12" ABOVE)



GENERAL PLANTING DETAIL

NTS



RIPRAP OUTLET PROTECTION

NTS

STORMWATER WETLAND PLANTING NOTES

GENERAL PLANTING NOTES

1. AVOID COMPACTING TOPSOIL TO PROMOTE HEALTHY ENVIRONMENTAL CONDITIONS FOR THE PLANTS.
2. PLANTS OF THE SAME SPECIES SHOULD BE PLANTED IN CLUSTERS, THESE CLUSTERS SHOULD CONTAIN MIN. 4-6 PLANTS OF THAT SPECIES.
3. ALL PLANTS SHOULD BE PLANTED IN THE INDICATED RANGE TO ENSURE SURVIVAL.
4. AVOID PLANTING INDIVIDUAL SPECIES IN LARGE GROUPS BY SPACING CLUSTERS A MIN. OF 5' APART.
5. SHALLOW WATER AND SHALLOW LAND AREAS TO BE PLANTED WITH BARE ROOT, PLUGS, OR CONTAINER LIVE PLANTINGS AS SPECIFIED.
6. EXCAVATE A HOLE TWICE THE DIAMETER OF ROOT BALL AND EQUAL TO THE ROOT DEPTH OF THE INDIVIDUAL PLANT. PLACE PLANT IN HOLE WITH CROWN FLUSH WITH SOIL SURFACE. BACKFILL WITH TOPSOIL AND LIGHTLY PLANT.
7. BEGIN PLANTING DURING LOCAL GROWING SEASON IN ORDER TO ENSURE THAT PLANTS HAVE ADEQUATE TIME TO ESTABLISH BEFORE WINTER MONTHS.
8. OBTAIN PLANTS FROM: COASTAL PLAIN CONSERVATION NURSERY (252-482-5707), MELLOW MARSH FARMS (919-742-1200), CURE NURSERY (919-542-6186) OR ENGINEER APPROVED SUBSTITUTE.

SHALLOW WATER PLANTING NOTES:

1. 70% OF SOFT STEM BULRUSH SHOULD BE PLANTED WITHIN 3-4 INCHES BELOW NORMAL POOL.
2. 70% OF PICKERELWEED AND 70% OF ARROW ARUM SHOULD BE PLANTED WITHIN 5-6 INCHES BELOW NORMAL POOL.
3. SEDGES SHOULD BE PLANTED WITHIN 0-2 INCHES BELOW NORMAL POOL.
4. 70% OF SWEETFLAG, 70% OF LIZARDS TAIL, AND 70% OF SOUTHERN BLUE FLAG IRIS SHOULD BE PLANTED IN THE 2-3 INCHES BELOW NORMAL POOL.
5. 70% OF SOFT RUSH SHOULD BE PLANTED AT THE NORMAL POOL ELEVATION.

SHALLOW LAND PLANTING NOTES:

1. PLANTS IN THIS GROUP SHOULD NOT BE PLANTED IN AREAS THAT ARE INUNDATED FOR EXTENDED PERIODS.
2. 70% OF CARDINAL FLOWER AND 70% OF BLUE LOBELIA SHOULD BE PLANTED WITHIN 0-1 INCH OF THE NORMAL POOL ELEVATION.

DEEP POOL PLANTING NOTES:

1. ENSURE ALL PLANTS ARE PLACED IN WATER NO DEEPER THAN 24 INCHES BELOW NORMAL POOL

GRADING PLAN NOTES:

1. WETLAND MUST BE STABILIZED WITHIN 14 DAYS OF CONSTRUCTION
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND PROTECTION OF EXISTING ABOVE AND BELOW GROUND UTILITIES AND STRUCTURES. ANY AND ALL MAINS OR INDIVIDUAL SERVICES LINES PRESENTLY IN SERVICE WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL EXPENSE TO THE UTILITY OWNER.
3. CONTRACTOR SHALL KEEP ALL PARKING AREAS AND STREETS ADJACENT TO THE CONSTRUCTION SITE CLEAN AND OPEN AT ALL TIMES DURING CONSTRUCTION.
4. ALL SHALLOW WATER AND SHALLOW LAND AREAS WITHIN THE WETLAND CELL SHALL BE TOP DRESSED WITH A MINIMUM OF 12 IN OF TOPSOIL.
5. ALL ITEMS WHICH ARE SHOWN FOR REMOVAL SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND LEGALLY DISPOSED OF OFF SITE.
6. CONTRACTOR SHALL AT ALL TIMES MAINTAIN ADEQUATE SAFETY MEASURES, ACTIVITIES, AND BARRICADES FOR THE PROTECTION OF ALL PERSONS ON OR ABOUT THE LOCATION OF THE SITE.
7. GRADE TO ELEVATIONS AND DIMENSIONS SHOWN ON DRAWINGS. ELEVATIONAL GRADING TOLERANCE IS ±0.1 FT.
8. NO GRADING IS TO OCCUR IN THE DEEP POOL AREAS BEYOND THE SPECIFIED GRADING LIMITS.

TOPSOIL SPECIFICATION:

1. TOPSOIL TO BE ADDED TO TOP OF WETLAND SHELF IS TO MEET CRITERIA SPECIFIED BELOW.
2. TOPSOIL SHALL BE WELL MIXED, FREE OF TRASH AND DEBRIS, UNCOMPACTED, AND VOID OF LARGE STONES (> 2 INCHES) AND WOODY MATERIAL (> 3 INCHES).
3. TOPSOIL SHALL MEET THE FOLLOWING SPECIFICATIONS:
SOIL TYPE: CLAY < 60%, SAND < 80%, SILT < 80%
ORGANIC CONTENT: 5-8%
P-I: 20<50
PH: 6.0-7.0
4. IN THE EVENT THAT SELECTED TOPSOIL DOES NOT MEET SPECIFICATION LISTED ABOVE, SOIL CAN BE AMENDED BY ADDITION OF APPROPRIATE MATERIALS (MASON SAND OR MATURE STABLE COMPOST, OR LIME).
5. UPON PLACEMENT OF TOPSOIL, AREA SHOULD BE LIGHTLY COMPACTED TO ENSURE STABILIZATION OF MATERIAL.
6. EXCESSIVE TRAFFICKING OF EQUIPMENT OVER WETLAND PLANTING AREAS SHOULD BE AVOIDED.
7. MINIMUM DEPTH OF TOPSOIL SHOULD BE 12 INCHES.

EARTHWORK SPECIFICATIONS

1. GRADE TO ELEVATIONS AND DIMENSIONS SHOWN ON DRAWINGS. GRADED ELEVATIONAL TOLERANCE SHALL BE ±0.1 FT.
2. TOPSOIL MATERIAL SHALL BE APPROVED BY ENGINEER PRIOR TO USE BASED ON SOIL PROPERTY TEST SUBMITTALS THAT INCLUDE STANDARD TEST METHOD FOR PARTICLE-SIZE ANALYSIS (ASTM D422), PARTICLE SIZE ANALYSIS OF SOILS (AASHTO T88), AND NCDCA SOIL ANALYSIS.
3. INSTALL FINAL COVER IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS WHEN APPLICABLE.

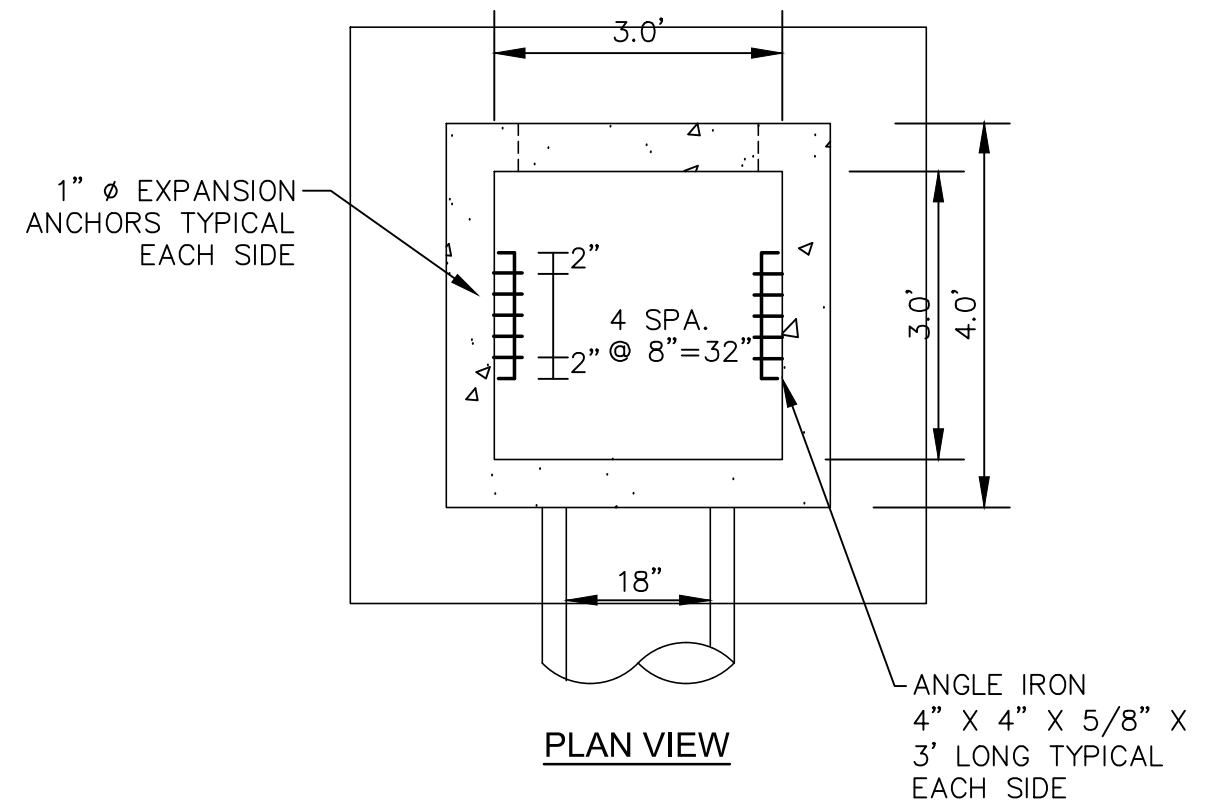
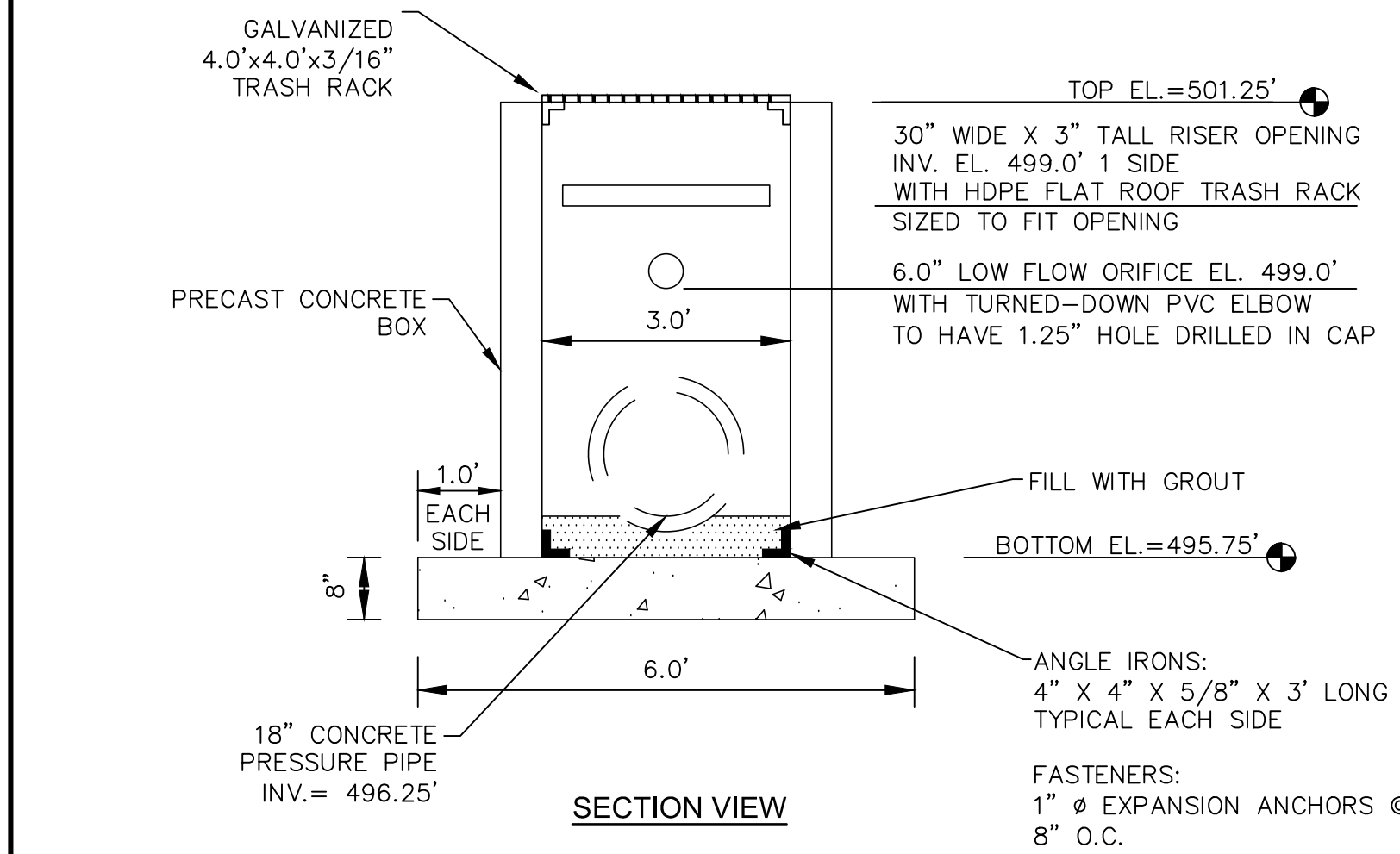
CLAY LINER SPECIFICATIONS

IN ORDER TO HELP SUSTAIN THE PERMANENT POOL AND TO PREVENT WATER FROM INFILTRATING TOO QUICKLY INTO THE UNDERLYING SOIL, THE CONTRACTOR SHALL INSTALL A 6" THICK CLAY LINER ON THE BOTTOM OF THE BMP AREA UP TO THE NORMAL POOL ELEVATION. THE LINER CAN BE ACCOMPLISHED BY BLENDING EXISTING SITE SOILS WITH CLAY TO ACHIEVE A LOW PERMEABILITY MIXTURE OR BY INSTALLING A GEOSYNTHETIC LINER MADE OF A BENTONITE CL. IF THE CONTRACTOR CHOOSES TO BLEND THE EXISTING SITE SOILS WITH CLAY, THE ONSITE GEOTECHNICAL ENGINEER SHALL DETERMINE THE AMOUNT OF CLAY TO ADD, THE DEGREE OF COMPACTION, AND WILL OVERSEE THE INSTALLATION OF THE CLAY LINER. THE MAXIMUM PERMEABILITY RATE FOR THE LINER SHALL BE 0.01 IN/HR OR LESS IN ACCORDANCE WITH THE NCDENR BMP MANUAL. THE PROPOSED MATERIAL FOR THIS LINER SHALL BE TESTED BY THE ONSITE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. THE RESULTS OF THIS TESTING SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR REVIEW PRIOR TO PLACEMENT. UPON COMPLETION OF LINER INSTALLATION, A 4" MINIMUM LAYER OF TOPSOIL SHALL BE ADDED OVER THE LINER TO PROVIDE A HEALTHY MEDIA FOR VEGETATION GROWTH.

DESIGNER'S CERTIFICATION:

THE DESIGN OF STORMWATER MANAGEMENT FACILITIES AND PRACTICES WILL CONTROL AND TREAT THE RUNOFF FROM THE 1-YEAR, 4-HOUR STORM OF THE ASSOCIATED DRAINAGE AREA. THESE DESIGNS AND PLANS ARE SUFFICIENT TO COMPLY WITH THE APPLICABLE STANDARDS AND POLICIES FOUND IN THE NCDENR STORMWATER BMP DESIGN MANUAL AND CHATHAM COUNTY'S STORMWATER ORDINANCE.

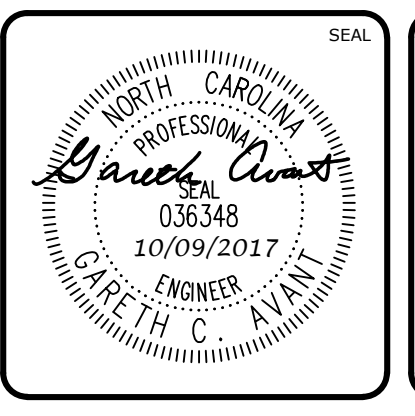
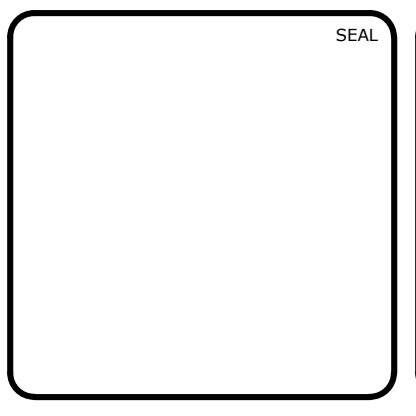
036348
06/17/2015
GARETH C. AVANT
ENGINEER



PRINCIPLE SPILLWAY

SCALE = 1" = 2'

REV. NO.	DESCRIPTIONS	DATE
3	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.10.09
2	REVISIONS PER COMMENTS RECEIVED FROM NCDOT	2017.09.21
1	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.09.13
0	SUBMITTAL TO AGENCIES	2017.07.26



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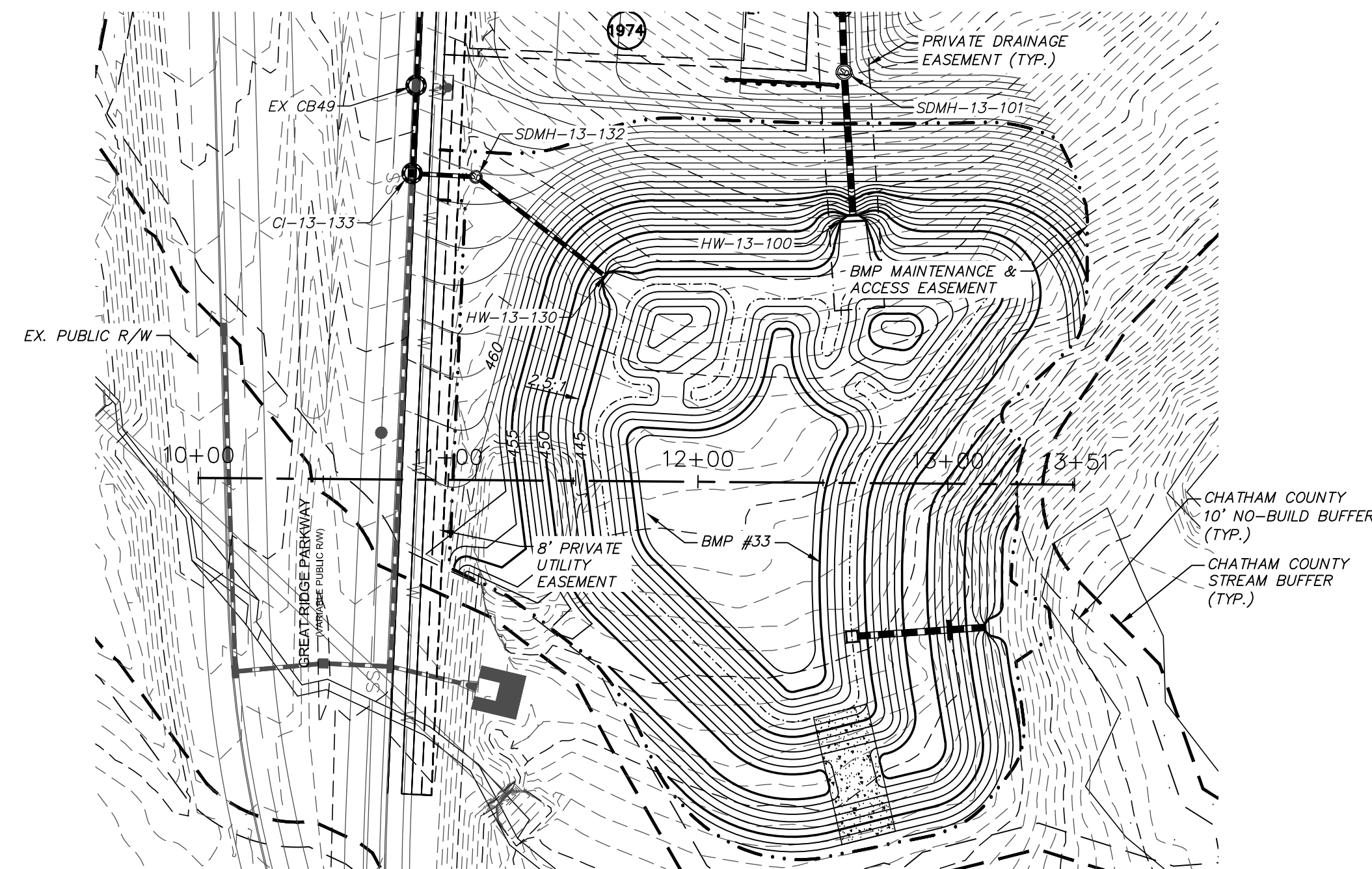
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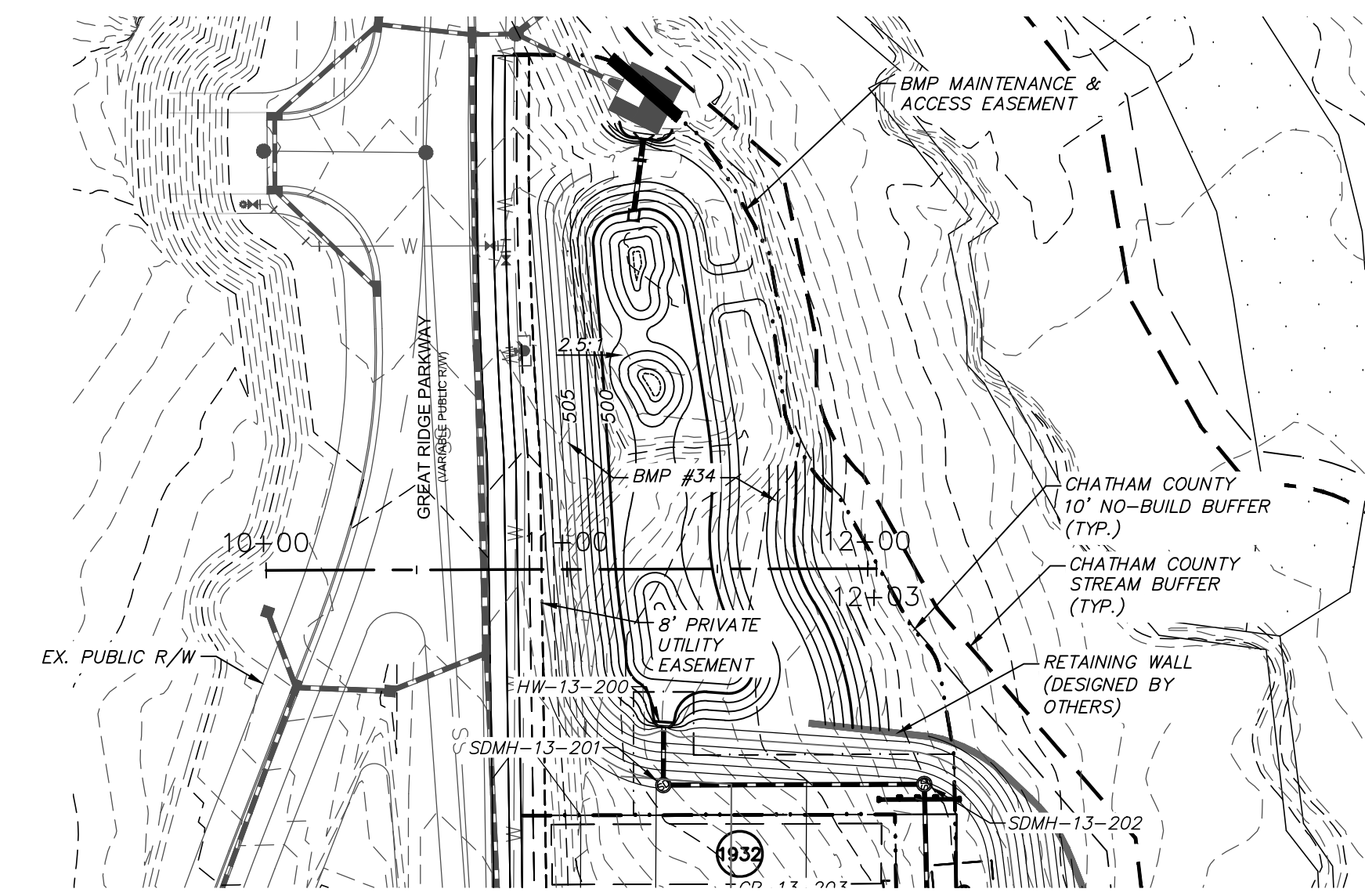
**BRIAR CHAPEL
PHASE 13 - SECTION 1 & 2
CHATHAM COUNTY, NORTH CAROLINA**

BMP #34 PLAN & DETAILS

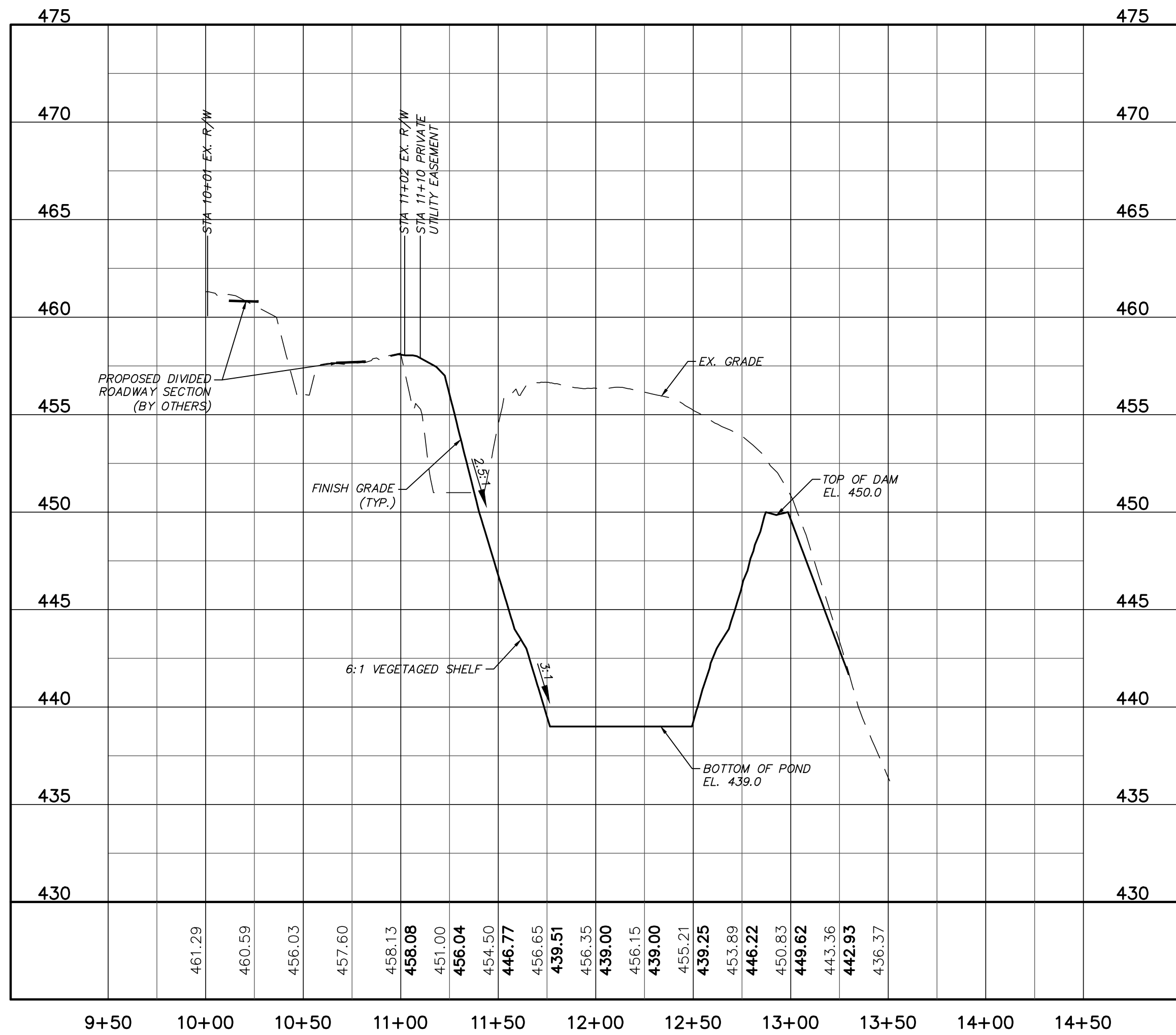
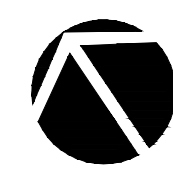
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DRAWN: BSS		
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY		REVISION: 3



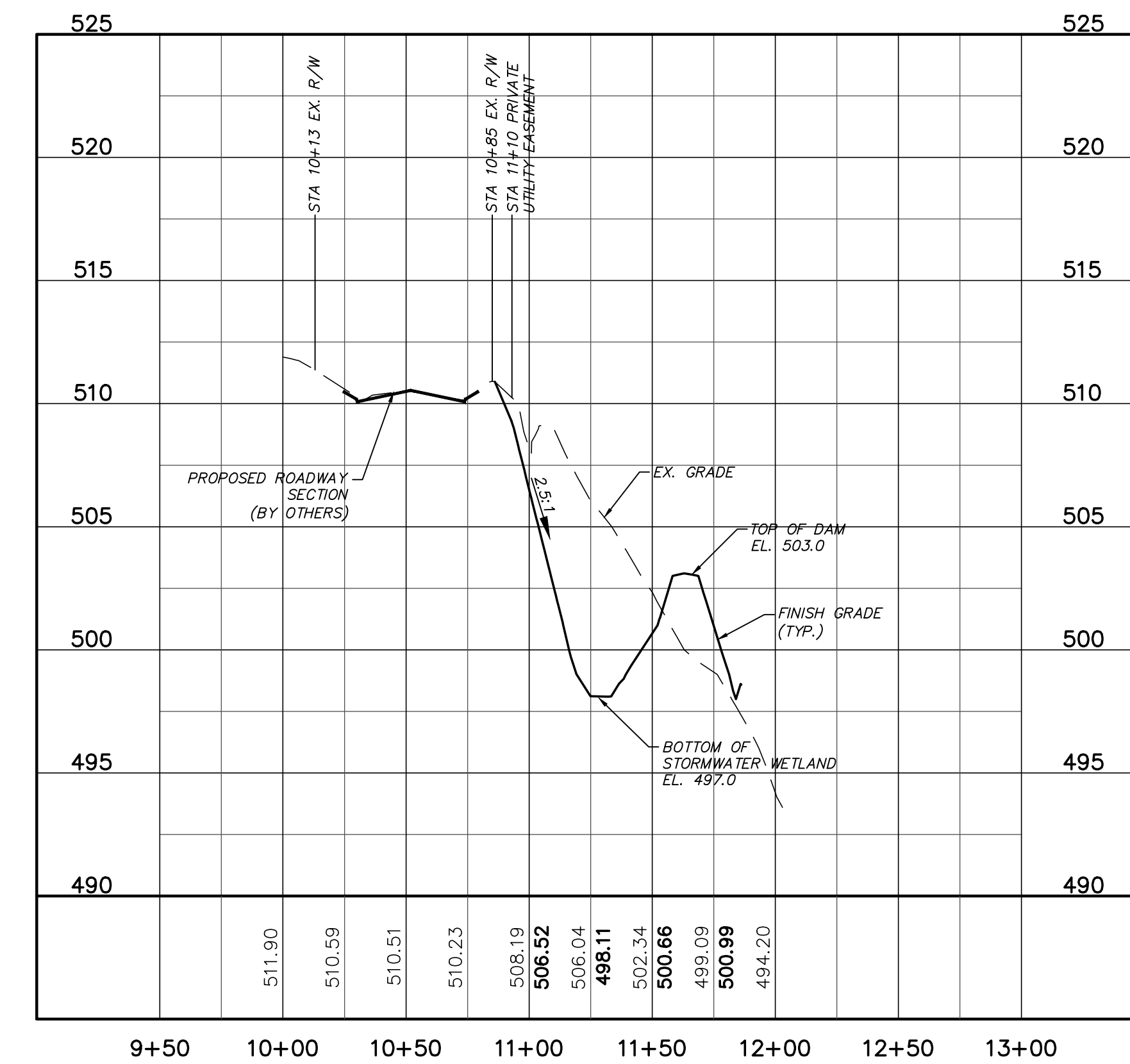
GREAT RIDGE PARKWAY @ BMP #33 PLAN
 (STA. 10+00.00 TO 13+50.68)
 SCALE: 1"=50'



GREAT RIDGE PARKWAY @ BMP #34 PROFILE
 (STA. 10+00.00 TO 12+02.94)
 SCALE: 1"=50'

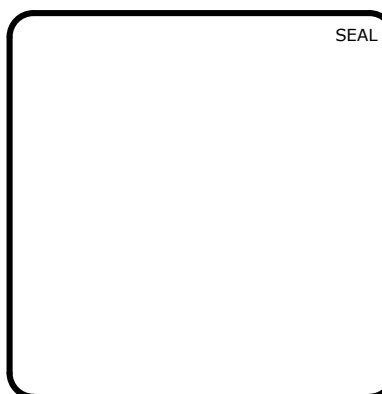


GREAT RIDGE PARKWAY @ BMP #33 PROFILE
 (STA. 10+00.00 TO 13+50.68)
 SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'



GREAT RIDGE PARKWAY @ BMP #34 PROFILE
 (STA. 10+00.00 TO 12+02.94)
 SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'

REV. NO.	DESCRIPTIONS	DATE
3	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.10.06
2	REVISIONS PER COMMENTS RECEIVED FROM NCDOT	2017.09.21
1	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.09.13
0	SUBMITTAL TO AGENCIES	2017.07.26



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 PHASE 13 - SECTION 1 & 2
 CHATHAM COUNTY, NORTH CAROLINA

PLAN & PROFILE
 BMP #33 CROSS SECTION
 BMP #34 CROSS SECTION

DATE: JULY 26, 2017	SCALE: 1" = 50'	MAC FILE NUMBER: D4.4A
MCE PROJ. # 02735-0198	HORIZONTAL: 1" = 50'	DRAWING NUMBER: D4.4A
DRAWN: BSS	VERTICAL: N/A	
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY		REVISION: 3

SANITARY SEWER SUMMARY TABLE							
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	UPSTREAM INVERT	DOWNSTREAM INVERT	PIPE DIAMETER	PIPE MATERIAL	LENGTH (ft)	SLOPE
SSMH 131	EX SSMH 210	491.22	490.37	8"	PVC	170.0	0.50%
SSMH 132	SSMH 131	498.27	491.42	8"	DIP	294.2	2.33%
SSMH 133	SSMH 132	499.54	498.47	8"	DIP	214.0	0.50%
SSMH 134	SSMH 133	500.58	499.74	8"	PVC	167.7	0.50%

SANITARY SEWER RIM TABLE	
STRUCTURE	RIM ELEVATION
EX SSMH 210	497.27
EX. SSMH 209	481.94
SSMH 131	498.27
SSMH 132	516.18
SSMH 133	512.65
SSMH 134	508.27

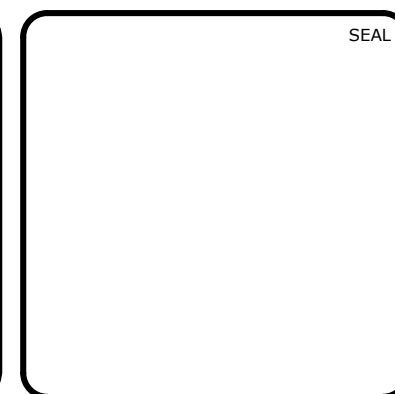
STORM DRAINAGE SUMMARY TABLE							
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	UPSTREAM INVERT	DOWNSTREAM INVERT	PIPE DIAMETER	PIPE MATERIAL	LENGTH (ft)	SLOPE
CB-13-102	SDMH-13-101	454.41	452.32	30"	RCP	26.1	8.00%
CB-13-103	CB-13-102	459.80	457.41	30"	RCP	34.9	6.85%
CB-13-104	CB-13-103	463.30	460.00	30"	RCP	77.1	4.28%
CB-13-105	CB-13-104	467.30	463.50	30"	RCP	82.5	4.61%
CB-13-106	CB-13-105	471.80	467.50	30"	RCP	106.5	4.04%
CB-13-107	CB-13-106	475.25	472.00	30"	RCP	118.3	2.75%
CB-13-108	CB-13-107	478.30	477.20	15"	RCP	130.7	0.84%
CB-13-109	CB-13-107	478.50	475.45	30"	RCP	67.3	4.53%
CB-13-116	SDMH-13-115	496.10	493.25	15"	RCP	39.5	7.21%
CB-13-117	CB-13-116	501.58	496.30	15"	RCP	103.6	5.10%
CB-13-118	CB-13-117	508.56	501.78	15"	RCP	104.3	6.50%
CB-13-203	SDMH-13-202	503.10	502.60	15"	RCP	41.2	1.21%
CB-13-204	CB-13-203	504.00	503.30	15"	RCP	67.8	1.03%
CB-13-205	CB-13-204	505.60	504.20	15"	RCP	57.0	2.46%
CB-13-206	CB-13-205	509.80	505.80	15"	RCP	89.6	4.46%
CI-13-133	SDMH-13-132	456.80	455.90	18"	RCP	25.5	3.53%
CI-13-134	EX CB49	469.40	462.42	18"	RCP	142.1	4.91%
CI-13-135	CI-13-134	470.72	469.60	15"	RCP	22.3	5.01%
EX CB24	EX CB25	495.03	483.09	18"	RCP	150.6	7.93%
EX CB36	EX. FES	488.70	488.51	18"	RCP	100.7	0.19%

STORM DRAINAGE SUMMARY TABLE							
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	UPSTREAM INVERT	DOWNSTREAM INVERT	PIPE DIAMETER	PIPE MATERIAL	LENGTH (ft)	SLOPE
EX CB39	EX CB40	484.70	479.74	18"	RCP	147.2	3.37%
EX CB40	EX CB41	479.51	477.96	18"	RCP	124.4	1.25%
EX CB41	EX CB42	477.89	476.37	18"	RCP	98.0	1.55%
EX CB42	EX CB43	476.27	473.97	18"	RCP	104.5	2.20%
EX CB43	CI-13-134	473.80	469.60	18"	RCP	90.2	4.66%
EX CB49	CI-13-133	462.22	459.80	18"	RCP	35.2	6.87%
SDMH-13-101	HW-13-100	448.90	444.00	30"	RCP	57.2	8.57%
SDMH-13-110	CB-13-109	481.00	478.70	30"	RCP	87.9	2.62%
SDMH-13-110B	SDMH-13-110	482.30	481.20	30"	RCP	84.1	1.31%
SDMH-13-111	SDMH-13-110B	485.30	483.30	30"	RCP	76.8	2.60%
SDMH-13-112	SDMH-13-111	486.50	485.50	30"	RCP	133.6	0.75%
SDMH-13-114	SDMH-13-110B	485.45	482.50	18"	RCP	183.8	1.60%
SDMH-13-115	SDMH-13-114	493.00	491.50	18"	RCP	66.2	2.27%
SDMH-13-132	HW-13-130	449.20	444.00	18"	RCP	65.1	7.99%
SDMH-13-201	HW-13-200	501.00	500.00	15"	RCP	19.3	5.19%
SDMH-13-202	SDMH-13-201	502.40	501.50	15"	RCP	86.8	1.04%

STORM SEWER RIM TABLE	
STRUCTURE	RIM ELEVATION
CB-13-102	472.88
CB-13-103	473.29
CB-13-104	477.14
CB-13-105	481.11
CB-13-106	484.17
CB-13-107	485.83
CB-13-108	482.80
CB-13-109	486.78
CB-13-116	501.52
CB-13-117	507.74
CB-13-118	514.00
CB-13-203	508.03
CB-13-204	509.06
CB-13-205	510.69
CB-13-206	514.51
CI-13-133	463.96
CI-13-134	474.97
CI-13-135	475.80
EX CB24	499.45
EX CB25	487.50
EX CB36	496.75

STORM SEWER RIM TABLE	
STRUCTURE	RIM ELEVATION
EX CB39	488.50
EX CB40	483.45
EX CB41	481.67
EX CB42	480.45
EX CB43	478.60
EX CB49	466.13
EX. FES	492.72
HW-13-100	447.79
HW-13-130	446.71
HW-13-200	502.44
SDMH-13-101	472.71
SDMH-13-110	487.05
SDMH-13-110B	488.80
SDMH-13-111	491.40
SDMH-13-112	497.93
SDMH-13-114	500.03
SDMH-13-115	499.34
SDMH-13-132	464.85
SDMH-13-201	510.64
SDMH-13-202	508.01

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 CHATHAM COUNTY, NORTH CAROLINA**

**STORM DRAINAGE &
 SANITARY SEWER TABLES**

DATE:	JULY 26, 2017
MCE PROJ. #	02735-0198
DRAWN	BSS
DESIGNED	BSS
CHECKED	GCA
PROJ. MGR.	CHS

SCALE	N/A
HORIZONTAL:	N/A
VERTICAL:	N/A

MAC FILE NUMBER	D4.6
DRAWING NUMBER	D4.5

STATUS:	FOR REVIEW PURPOSES ONLY
REVISION	3