SITE DEVELOPMENT PLANS

OF

MAY RIVER ROAD IMPROVEMENTS PHASE II

BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

SC HIGHWAY 46

PREPARED FOR:

TOWN OF BLUFFTON

20 BRIDGE STREET
BLUFFTON, SC 29910

Know what's **below.**
Call before you dig.

LAST REVISED: AUGUST 17, 2016

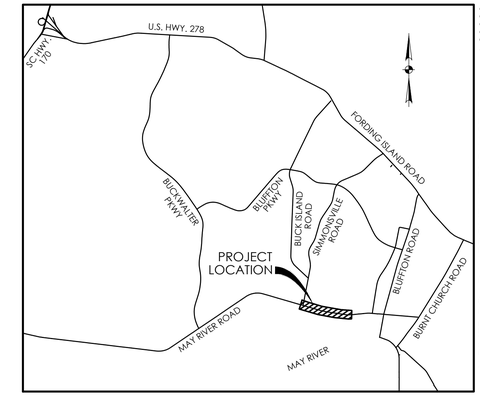
MAY 16, 2011

J-23039

PREPARED BY:

THOMAS & HUTTON
Engineering | Surveying | Planning | GIS | Consulting

Savannah, GA | Brunswick, GA | Charleston, SC | Myrtle Beach, SC | Wilmington, NC



VICINITY MAP
SCALE: 1" = 5000'

MAY RIVER ROAD IMPROVEMENTS PHASE II J-23039

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

REVISION HISTORY

REV. NO.	REVISION	BY	DATE
16	REVISED PER SCDOT COMMENTS	MEB	8-17-16
15	REVISED PER SCDOT AND OCRM COMMENTS	MEB	8-2-16
14	REVISED PER SCDOT COMMENTS	MEB	7-6-16
13	REVISED PER TOWN OF BLUFFTON COMMENTS	MEB	5-17-16
12	REVISED PER SCDOT COMMENTS	MEB	5-9-16
11	REVISED PER SCDOT COMMENTS	MEB	4-9-16
10	REVISED PER SCDOT COMMENTS	MEB	3-10-16
9	REVISED PER TOWN OF BLUFFTON AND SCDOT COMMENTS	DSG	1-27-16
8	REVISED PER TOWN OF BLUFFTON AND SCDOT COMMENTS	DSG	12-24-15
7	REVISED PER SCDOT COMMENTS	DSG	8-5-14
6	REVISED DETENTION/INFLITRATION SWALE AND GRADES	MCS	4-21-14
5	REVISED PER PUBLIC MEETING COMMENTS	MCS	4-1-14
4	REVISED PER SCDOT COMMENTS	DJS	10-22-13
3	REVISE SIDEWALK WHISPERING PINE TO RED CEDAR, WIDEN PIN OAK	DMB	2-27-13
2	REVISED PER SCDOT COMMENTS	MCS	4-25-12
1	REVISED PER TOWN COMMENTS	SCG	11-1-11

SUBMITTAL HISTORY

SUBMITTED TO	DATE
SCDOT	8-18-16
SCDOT	8-3-16
SCDOT	7-6-16
TOWN OF BLUFFTON AND OCRM	6-23-16
TOWN OF BLUFFTON	5-17-16
SCDOT	4-10-16
SCDOT	4-11-16
TOWN OF BLUFFTON	3-10-16
TOWN OF BLUFFTON	1-27-16
TOWN OF BLUFFTON	12-24-15
TOWN OF BLUFFTON	12-24-15
TOWN OF BLUFFTON	11-5-15
TOWN OF BLUFFTON	10-19-15
SCDOT	9-22-14
SCDOT	11-1-11
TOWN OF BLUFFTON	6-27-11

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24757 RYAN M. SMITH

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LINE AND CURVE TABLE					
ID	LENGTH	RADIUS	LINE/CHORD BEARING	CHORD	DELTA
L1	1131.16'		S 73°42'29" E		
C1	781.20'	5800.00'	S 77°34'00" E	780.61'	7°43'02"
L2	941.14'		S 81°25'31" E		
C2	218.22'	10000.00'	S 82°03'01" E	218.22'	1°15'01"
L3	102.20'		S 82°40'32" E		
C3	72.60'	840.00'	S 85°09'06" E	72.58'	4°57'07"
L4	6.41'		S 87°37'39" E		

MAY RIVER ROAD FROM PIN OAK TO BUCK ISLAND (CURVE 1)
PI STA = 15+21.76
PI N = 147182.87
PI E = 2038856.37
D = 7°43'02"
DC (arc) = 0°59'16"
T = 391.19'
L = 781.20'
R = 5800.00'
E = 13.18'
D.S. = 30 mph
SE = NC
EMAX = 4%

MAY RIVER ROAD FROM PIN OAK TO BUCK ISLAND (CURVE 2)
PI STA = 29+62.60
PI N = 146967.95
PI E = 2040281.70
D = 1°15'01"
DC (arc) = 0°34'23"
T = 109.12'
L = 218.22'
R = 10000.00'
E = 0.60'
D.S. = 30 mph
SE = NC
EMAX = 4%

MAY RIVER ROAD FROM PIN OAK TO BUCK ISLAND (CURVE 3)
PI STA = 32+10.22
PI N = 146936.38
PI E = 2040527.32
D = 4°57'07"
DC (arc) = 6°49'15"
T = 36.32'
L = 72.60'
R = 840.00'
E = 0.78'
P.C. - LG% = 0.66
P.T. - LG% = 0.66
D.S. = 30 mph
SE = 3.00%
EMAX = 4%

GRAPHIC SCALE
200 0 200 400 800
(IN FEET)
1 inch = 200 ft.

GENERAL NOTES

1. ALL ELEVATIONS REFER TO NAVD 88.
2. VERIFY CHANGES IN ELEVATIONS IN ROADBEDS RESULTING FROM CONTRACTOR CLEARING AND STRIPPING.
3. ONE (1) FOOT CONTOUR INTERVALS.
4. EXISTING BENCHMARKS ARE SHOWN ON PROJECT MAPS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL COORDINATE ALL WORK WITH THE OWNER AND UTILITY COMPANIES.
6. CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTACT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES.
7. CONTRACTOR SHALL VERIFY MANHOLE ELEVATIONS BEFORE STARTING WORK.
8. DRY UTILITIES HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY LOCATION PRIOR TO BEGINNING WORK.
9. ALL PAVEMENT MARKINGS, MARKERS AND TRAFFIC CONTROL SHALL COMPLY WITH SCDOT STANDARD DRAWINGS AND LATEST VERSION OF THE MUTCD. SEE PAVING, GRADING AND DRAINAGE DETAILS.

OCRM NOTES

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, EXCEPT AS STATED BELOW.
   WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
   WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS. IF SITE INSPECTIONS IDENTIFY BMPs THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE AND BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE.
4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN ACCEPTANCE OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR 100000.
8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
9. ALL WATERS OF THE STATE (WoS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE AREA TO BE FILLED. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN NOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WoS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WoS.
10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
11. ALL AREAS CLEARED AND GRUBBED BEYOND THE EDGE OF PAVED AREAS IN THIS DEVELOPMENT WILL BE GRASSED AND MULCHED IMMEDIATELY AFTER GRADING IS COMPLETED. THESE AREAS WILL BE REGRASSED AFTER THE CONSTRUCTION OF ALL UTILITIES IS COMPLETED.
12. OPEN SPACE AND LAGOON BANKS SHALL BE PERMANENTLY GRASSED. LOTS SHALL BE TEMPORARILY GRASSED AND MEET ALL OCRM REGULATIONS.
13. CONTRACTOR SHALL NOT ENCROACH ON WETLAND AREAS AND WILL TAKE PRECAUTIONS TO PREVENT ENCROACHMENT.
14. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE BUILT IN ACCORDANCE WITH OCRM GUIDELINES.
15. SILT FENCE TO BE IN PLACE PRIOR TO COMMENCING WORK.
16. ALL EROSION AND SEDIMENT DEVICES SHOWN SHALL BE SEDIMENT BARRIERS (S.D.I) CONSTRUCTED OF AN ACCEPTED MATERIAL.
17. VEHICLES LEAVING SITE MUST TRAVERSE CONSTRUCTION EXITS TO REMOVE MUD FROM TIRES.
18. ALL STORM PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
19. REFER TO SPECIFICATIONS, SECTION 02902, FOR GRASSING REQUIREMENTS AND SPECIFICATIONS.

DEMO/RELOCATION

ALL ELEVATIONS ARE BASED ON THE TOPOGRAPHIC SURVEYS PROVIDED BY THOMAS AND HUTTON ENGINEERING COMPANY.

THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR HIS REPRESENTATIVES. EXISTING UTILITIES SHOWN DO NOT INCLUDE ALL UTILITIES THAT MAY EXIST.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL EXISTING UNDERGROUND UTILITIES LOCATED WITHIN THIS SITE AND AROUND THE PERIMETER OF THIS SITE WHERE SUCH UTILITIES MIGHT BE DISTURBED BY ANY ACTIVITY INVOLVED WITH THESE PLANS. ALL UTILITY LOCATION WORK SHALL BE DONE PRIOR TO CONSTRUCTION ACTIVITY. THE CONTRACTOR AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE AND UNDERGROUND UTILITIES THAT MAY EXIST, EXISTING UTILITIES SHALL BE
REQUIRED TO COMPLETE THE WORK SHOWN IN THESE SITE DEVELOPMENT PLANS. CONTRACTOR TO COORDINATE WITH ALL UTILITY PROVIDERS PRIOR TO DEMOLITION FOR THE RELOCATION OF EXISTING UTILITIES.

THE CONTRACTOR SHALL VERIFY ALL ITEMS TO BE DEMOLISHED AND REMOVED FROM THE PROJECT SITE. THE VERIFICATION PROCESS SHALL INCLUDE VISITING AND WALKING THE SITE. ALL ITEMS REQUIRING DEMOLITION/REMOVAL, WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ALL EXISTING STRUCTURES (IF ENCOUNTERED) AND RELATED FOOTINGS, FOUNDATIONS, STEPS, ETC. ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF ACCORDING TO APPLICABLE CODES.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REMOVAL AND/OR RELOCATION OF ALL UTILITIES (ABOVE AND BELOW GROUND LEVEL) AS NECESSARY TO FACILITATE CONSTRUCTION.

EXISTING SEPTIC TANKS, GREASE TRAPS AND/OR UNDERGROUND TANKS, IF ENCOUNTERED, ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF ACCORDING TO APPLICABLE CODES. THE LOCATION OF ANY TANKS SHALL BE RECORDED AND THE ENGINEER SHALL BE NOTIFIED AT ONCE.

WELLS, IF ENCOUNTERED, SHALL BE ACCURATELY LOCATED BY THE CONTRACTOR, PROTECTED AND SURROUNDING GRADES MAINTAINED SUCH THAT SURFACE RUNOFF CANNOT ENTER THE WELL OPENING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT ONCE.

THE CONTRACTOR SHALL CONSULT THE OWNER REGARDING SALVAGE, ANY ITEMS NOT RETAINED BY THE OWNER SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DEMOLISH AND/OR LEGALLY DISPOSE OF.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO DEMOLITION AND REMAIN IN PLACE UNTIL FINAL STABILIZATION AND COMPLETION OF CONSTRUCTION.

IF ANY HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE AGENCIES FOR PROPER REMOVAL AND DISPOSAL.

DEMOLITION SHALL MEET ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS.

ALL ITEMS TO BE RELOCATED SHALL BE RE-INSTALLED AT AN ADJACENT LOCATION JUST OUTSIDE OF THE DEMOLITION LIMITS UNLESS OTHERWISE NOTED. THE TOWN OF BLUFFTON SHALL COORDINATE WITH PROPERTY OWNERS, SCDOT, ETC.

CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND TOWN OF BLUFFTON 72 HOURS PRIOR TO ANY SERVICE DISRUPTION DUE TO RELOCATION AND OR FIELD ADJUSTMENTS OF UTILITIES.

ANY PAVEMENT, CURB AND GUTTER, SIDEWALKS TO BE REMOVED SHALL BE SAW CUT WITH A CLEAN EDGE AND APPROPRIATE MATERIAL SHALL BE USED BETWEEN NEW AND EXISTING SURFACES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ANY DAMAGE INCURRED ON ANY OF THE SURROUNDING PAVEMENT.

CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES.

DEMO/RELOCATION CONTINUED

TREE PROTECTION, EROSION, AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES. TREE PROTECTION SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE DEMOLITION WORK OUTLINED BY THIS PLAN. TREE PROTECTION THAT NEEDS TO BE REMOVED, MOVED, OR REPLACED SHALL BE COORDINATED WITH OWNER. TREES TO BE REMOVED, THAT ARE WITHIN THE TREE PROTECTION ZONE OF PRESERVED TREES, ARE TO BE REMOVED IN SUCH A MANNER SO AS TO NOT DISTURB THE CANOPY OR ROOT SYSTEM OF PRESERVED TREES

ALL WATER VALVE BOXES/MANHOLES, METER AND BACKFLOW PREVENTER BOXES AND ASSOCIATED APPURTENANCES, SANITARY SEWER MANHOLE TOPS AND CLEANOUTS AND SURFACE DRAINAGE STRUCTURE INLETS SHALL BE BROUGHT TO FINISHED GRADE.

EXIST. CONDITIONS

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE SAID UTILITIES.

EROSION CONTROL

REMOVE ACCUMULATED SEDIMENT FROM EXISTING PAVED SURFACES PROMPTLY WHENEVER AND WHEREVER IT OCCURS. (TYPICAL)

CONCRETE WASHOUT AND PORTABLE TOILET LOCATIONS SHALL BE COORDINATED THROUGH THE TOWN OF BLUFFTON. THE SWPPP PLAN SHALL BE UPDATED AND AMENDED WITH FUTURE LOCATIONS AS THEY ARE DETERMINED.

CONDUIT

CONTRACTOR TO COORDINATE CONDUIT LOCATIONS WITH SCE&G, HARGRAY, AND THE TOWN OF BLUFFTON PRIOR TO INSTALLATION. REFER TO THE CONDUIT PLANS PREPARED BY SCE&G AND HARGRAY COMMUNICATIONS FOR MORE INFORMATION.

ALL SCE&G AND HARGRAY CONDUIT TO BE GRAY SCHEDULE 40 ELECTRICAL GRADE PVC.

ALL CONDUIT TO BE BURIED BETWEEN 36" AND 48" BELOW FINAL GRADE WITH SWEEPING BENDS WHERE NECESSARY.

CONDUIT ENDS SHOULD BE TURNED UP (SWEEPING 90'S) AND CAPPED OFF.

STRING MUST BE INSTALLED IN EACH CONDUIT RUN.

CONDUIT SHOULD HAVE ACCESS PORTS EVERY 500 FEET MINIMUM.

GENERAL INFORMATION

COUNTY: BEAUFORT

OWNER:
TOWN OF BLUFFTON
20 BRIDGE STREET
BLUFFTON, SC 29910
(843) 706-4500

ENGINEER AND SURVEYOR:
THOMAS & HUTTON
50 PARK OF COMMERCE WAY
SAVANNAH, GA 31402
(912) 234-5300

SURVEY LEGEND

- BENCHMARK
- BUSH
- CONC. MONUMENT FOUND
- ELECTRIC BOX
- EVERGREEN TREE
- FIRE HYDRANT
- FLOOD LIGHT
- GRATE INLET
- GUY WIRE
- IRON PIPE FOUND
- IRON PIPE SET
- IRON REBAR FOUND
- UNDERGROUND UTILITY LINE MARKER
- LIGHT POLE
- MAIL BOX
- OAK TREE
- PALM TREE
- POST
- POWER POLE
- STORM DRAINAGE MANHOLE
- SIGN
- SANITARY MANHOLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- DECIDUOUS HARDWOOD
- CONTROL POINT
- WATER MANHOLE
- WATER VALVE
- —— x —— FENCE

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
SILT FENCE	
TEMPORARY SEEDING	TS
PERMANENT SEEDING	PS
DUST CONTROL	DC
STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC	A
STORM DRAIN INLET PROTECTION - TYPE E FILTER FABRIC	E

DRAINAGE LEGEND

DESCRIPTION	PROPOSED
PIPE	
DITCH	
GRATE INLET/HOOD INLET	
STORM MANHOLE	
B.E.S.	
F.E.S.	

ABBREVIATIONS

HDPE	HIGH DENSITY POLYETHELENE	LF	LINEAR FEET	SF	SQUARE FEET
BOT	BOTTOM	MAX	MAXIMUM	SS	SANITARY SEWER
CI	ROLL OVER CURB INLET	MIN	MINIMUM	TC	TOP OF CURB
CPP	CORRUGATED PLASTIC PIPE	MH	MANHOLE	TG	TOP OF GUTTER
DIP	DUCTILE IRON PIPE	OC	ON CENTER	TP	TOP OF PAVEMENT
EL	ELEVATION	PC	POINT OF CURVE	TW	TOP OF WALK
FG	FINISH GRADE	PH	POST HYDRANT	TYP	TYPICAL
FH	FIRE HYDRANT	PT	POINT OF TANGENT	UGFO	UNDERGROUND FIBER OPTIC LINE
FM	FORCE MAIN (SANITARY SEWER)	PVC	POLYVINYL CHLORIDE	W	WATER
FR	FRAME	RCP	REINFORCED CONCRETE PIPE	W/	WITH
GI	GRATE INLET	RJP	RESTRAINED JOINT PIPE	WV	WATER VALVE
GV	GATE VALVE & BOX	R/W	RIGHT-OF-WAY	YI	YARD INLET
INV	INVERT ELEVATION	SD	STORM DRAINAGE		
JB	JUNCTION BOX	SDMH	STORM DRAINAGE MANHOLE		

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

SOUTH CAROLINA THOMAS & HUTTON ENGINEERING CO. No. C00285 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24757 LICENSED PROFESSIONAL ENGINEER RYAN M. SMITH

NO.	REVISIONS	BY	DATE

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TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA
MAY RIVER ROAD IMPROVEMENTS PHASE II
SHEET INDEX AND GENERAL NOTES

JOB NO:	J-23039
DATE:	5/16/2011
DRAWN:	MEB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 200'

G1.1

TOWN OF BLUFFTON RIGHT-OF-WAY DATA SHEET

TRACT NO.	PROPERTY OWNER	TAX MAP REFERENCE	TOTAL TRACT ACRES	OBTAIN				REMAINDER LEFT ACRES	REMAINDER RIGHT ACRES	DATE ACQUIRED	TYPE OF INSTRUMENT	TEMPORARY CONSTRUCTION EASEMENT	DRAINAGE EASEMENT	SIDEWALK EASEMENT	REMARKS
				OUTFALL DITCH ACRES	LEFT	RIGHT	TOTAL								
1	ARTHUR DOUGLAS HANCOCK II TRUST	R600 039 000 024B 0000	16.01						16.01						
2	DRAYTON-PARKER COMPANIES LLC	R610 039 000 0758 0000	1.72		31.742 SF (0.001 AC)		31.742 SF (0.001 AC)	1.72				31.742 SF (0.001 AC)		17.366 SF (0.0004 AC)	
2A	DRAYTON-PARKER COMPANIES LLC	R610 039 000 0759 0000	0.71		154.330 SF (0.004 AC)		154.330 SF (0.004 AC)	0.71				150.485 SF (0.004 AC)		20.108 SF (.001 AC)	
3	BLUFFTON CEMETARY PRESERVATION SOCIETY INC	R600 039 000 0025 0000	2.41						2.41						
4	ELDON M BRIGHT REVOC TRUST	R610 039 000 0021 0000	1.77		2183.478 SF (0.05 AC)		2183.478 SF (0.05 AC)	1.72				2183.478 SF (0.05 AC)		88.843 SF (0.002 AC)	
5	BLUFFTON CEMETARY PRESERVATION SOCIETY INC	R600 039 000 0026 0000	4.04			1228.498 SF (0.03 AC)	1228.498 SF (0.03 AC)		4.01			1228.498 SF (0.03 AC)			
6	MARSH RENTALS LLC	R610 039 000 108C 0000	0.90		3824.202 SF (0.09 AC)		3824.202 SF (0.09 AC)	0.81				3781.232 SF (0.09 AC)	411.482 SF (0.01 AC)	579.223 SF (0.01 AC)	
7	CBM REALTY LLC	R600 039 000 1129 0000	1.51			1027.814 SF (0.02 AC)	1027.814 SF (0.02 AC)		1.49			1027.814 SF (0.02 AC)			
8	BURROWS THOMAS W III	R610 039 000 108B 0000	0.70		2122.186 SF (0.05 AC)		2122.186 SF (0.05 AC)	0.65				2122.186 SF (0.05 AC)	157.150 SF (0.004 AC)		
9	SHARP ANNA W & JOHN CALVIN	R600 039 000 031E 0000	18.03			100.674 SF (0.002 AC)	100.674 SF (0.002 AC)		18.03			100.674 SF (0.002 AC)			
9A	LORETTA E WELLS REVOCABLE TRUST	VERDIER COVE ROAD				835.627 SF (0.02 AC)	835.627 SF (0.02 AC)					835.627 SF (0.02 AC)			
10	BURROWS THOMAS W III	R610 039 000 0098 0000	0.70		2465.483 SF (0.06 AC)		2465.483 SF (0.06 AC)	0.64				2317.358 SF (0.05 AC)	1176.124 SF (0.03 AC)		
11	CBM REALTY LLC	R610 039 000 1491 0000	0.25						0.25						
12	ROBINOWICH JEFFREY	R610 039 000 0116 0000	0.72		2446.493 SF (0.06 AC)		2446.493 SF (0.06 AC)	0.66				2242.427 SF (0.05 AC)	111.0415 SF (0.03 AC)		
13	STOCK FARM DEVELOPMENT LLC	R610 039 000 1490 0000	0.20			133.420 SF (0.003 AC)	133.420 SF (0.003 AC)		0.20			94.193 SF (0.002 AC)	65.681 SF (0.001 AC)		
14	ROBINOWICH JEFFERY	R610 039 000 0097 0000	0.62		2224.417 SF (0.05 AC)		2224.417 SF (0.05 AC)	0.57				2076.898 SF (0.05 AC)	821.686 SF (0.02 AC)		
15	STOCK FARM DEVELOPMENT LLC	R610 039 000 1524 0000	4.56			398.909 SF (0.01 AC)	398.909 SF (0.01 AC)		4.55			398.909 SF (0.01 AC)	3481 SF (0.0001 AC)		
16	C & S COMMERCIAL VILLAGE LLC	R610 039 000 097A 0000	0.70		2904.101 SF (0.07 AC)		2904.101 SF (0.07 AC)	0.63				2298.451 SF (0.05 AC)	2085.631 SF (0.05 AC)		
17	STOCK FARM DEVELOPMENT LLC	R610 039 000 1489 0000	0.25			423.692 SF (0.01 AC)	423.692 SF (0.01 AC)		0.24			423.692 SF (0.01 AC)			
18	MESSEX HELEN TRUSTEE	R610 039 000 0108 0000	0.34		1468.576 SF (0.03 AC)		1468.576 SF (0.03 AC)	0.31				1468.576 SF (0.03 AC)	813.173 SF (0.02 AC)		
19	STOCK FARM DEVELOPMENT LLC	R610 039 000 1488 0000	0.17			985.324 SF (0.02 AC)	985.324 SF (0.02 AC)		0.15			985.324 SF (0.02 AC)			
20	MESSEX HELEN TRUSTEE	R610 039 000 0104 0000	0.34		1698.447 SF (0.04 AC)		1698.447 SF (0.04 AC)	0.30				1685.423 SF (0.04 AC)	1121.282 SF (0.04 AC)		

SOUTH CAROLINA THOMAS & HUTTON ENGINEERING CO. No. C00285 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24757 LICENSED RYAN M. SMITH

NO.	REVISIONS	BY	DATE

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TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

MAY RIVER ROAD IMPROVEMENTS PHASE II

RIGHT-OF-WAY DATA

JOB NO:	J-23039
DATE:	5/16/2011
DRAWN:	MEB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 40'

RW1.1

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

TOWN OF BLUFFTON RIGHT-OF-WAY DATA SHEET

TRACT NO.	PROPERTY OWNER	TAX MAP REFERENCE	TOTAL TRACT ACRES	OBTAIN				REMAINDER LEFT ACRES	REMAINDER RIGHT ACRES	DATE ACQUIRED	TYPE OF INSTRUMENT	TEMPORARY CONSTRUCTION EASEMENT	DRAINAGE EASEMENT	SIDEWALK EASEMENT	REMARKS
				OUTFALL DITCH ACRES	LEFT	RIGHT	TOTAL								
21	MOREE DONALD L & LINDA W	R610 039 000 1487 0000	0.18			667.939 SF (0.02 AC)	667.939 SF (0.02 AC)		0.16			667.939 SF (0.02 AC)			
22	CARAMAR RENTALS & INVESTMENTS LLC	R610 039 000 107A 0000	0.69		760.899 SF (0.02 AC)		760.899 SF (0.02 AC)	0.67				760.899 SF (0.02 AC)	720.179 SF (0.02 AC)		
23	STOCK FARM DEVELOPMENT LLC	R610 039 000 1486 0000	0.20			744.588 SF (0.02 AC)	744.588 SF (0.02 AC)		0.18			744.588 SF (0.02 AC)			
24	WELLS TREVOR HOWARD	R610 039 000 107B 0000	0.43		1359.309 SF (0.03 AC)		1359.309 SF (0.03 AC)	0.40				1359.309 SF (0.03 AC)	811.423 SF (0.02 AC)		
25	JIQA PROPERTIES LLC	R610 039 000 1485 0000	0.24			908.835 SF (0.02 AC)	908.835 SF (0.02 AC)		0.22			908.835 SF (0.02 AC)			
26	JOHNSON & COUNTRYMAN LLC	R610 039 000 0114 0000	0.67		3028.362 SF (0.07 AC)		3028.362 SF (0.07 AC)	0.60				2372.728 SF (0.05 AC)	2995.15 SF (0.07 AC)		
27	STOCK FARM DEVELOPMENT LLC	R610 039 000 1484 0000	0.15			656.989 SF (0.02 AC)	656.989 SF (0.02 AC)		0.13			656.989 SF (0.02 AC)			
28	VAUX ROBERTS DBA VAUX ENTERPRISES	R610 039 000 0096 0000	0.43		1307.890 SF (0.03 AC)		1307.890 SF (0.03 AC)	0.40				1194.929 SF (0.03 AC)	908.371 SF (0.02 AC)		
29	STOCK FARM DEVELOPMENT LLC	R610 039 000 1483 0000	0.17			656.989 SF (0.02 AC)	656.989 SF (0.02 AC)		0.15			656.989 SF (0.02 AC)			
30	VILLEGAS SANDOVAL MA GUADALUPE	R610 039 000 0095 0000	0.48		2367.963 SF (0.05 AC)		2367.963 SF (0.05 AC)	0.43				1978.159 SF (0.05 AC)	1323.676 SF (0.03 AC)	55.343 SF (0.001 AC)	
31	BELL LIZABETH M	R610 039 000 1482 0000	0.19			717.861 SF (0.02 AC)	717.861 SF (0.02 AC)		0.17			717.861 SF (0.02 AC)		13.710 SF (0.0003 AC)	
32	BLUFFTON OFFICE LLC	R610 039 000 0093 0000	0.60		1193.267 SF (0.03 AC)		1193.267 SF (0.03 AC)	0.57				1193.267 SF (0.03 AC)	1168.997 SF (0.03 AC)		
33	STOCK FARM DEVELOPMENT LLC	STOCK FARM ROAD				547.805SF (0.01 AC)	547.805SF (0.01 AC)					547.805 SF (0.01 AC)		8.254 SF (0.0002 AC)	
34	1223 MAY RIVER ROAD LLC	R610 039 000 0121 0000	2.74		10382.311 SF (0.24 AC)		10382.311 SF (0.24 AC)	2.50				10313.673 SF (0.24 AC)	6280.948 SF (0.14 AC)	60.463 SF (0.001 AC)	
35	MAYBERRY HOLDINGS LLC	R610 039 000 1530 0000	0.23			1070.259 SF (0.02 AC)	1070.259 SF (0.02 AC)		0.21			1070.259 SF (0.02 AC)	477.130 SF (0.01 AC)	71.492 SF (0.002 AC)	
36	RIGANAS STAR RUSH	R610 039 000 0123 0000	0.31		186.496 SF (0.004 AC)		186.496 SF (0.004 AC)	0.31				78.698 SF (0.002 AC)	186.496 SF (0.004 AC)	15.750 SF (0.0004 AC)	
37	MAYBERRY HOLDINGS LLC	R610 039 000 1539 0000	0.33			9467.021 SF (0.22 AC)	9467.021 SF (0.22 AC)		0.11			9467.021 SF (0.22 AC)	3978.808 SF (0.09 AC)	447.980 SF (0.01 AC)	
39	MAYBERRY HOLDINGS LLC	R610 039 000 1525 0000	0.35			2124.001 SF (0.05 AC)	2124.001 SF (0.05 AC)		0.30			2124.001 SF (0.05 AC)	515.313 SF (0.01 AC)		
41	KULESZA MIROSLAW & SMIESZEK BARBARA JTROS	R610 039 00A 0225 0000	0.78			2945.638 SF (0.07 AC)	2945.638 SF (0.07 AC)		0.71			2945.638 SF (0.07 AC)			

SOUTH CAROLINA THOMAS & HUTTON ENGINEERING CO. No. C00285 CERTIFICATE OF AUTHORIZATION

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TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

MAY RIVER ROAD IMPROVEMENTS PHASE II

RIGHT-OF-WAY DATA

JOB NO:	J-23039
DATE:	5/16/2011
DRAWN:	MEB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 40'

RW1.2

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

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TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

MAY RIVER ROAD IMPROVEMENTS PHASE II

PROPERTY STRIP MAP

JOB NO:	J-25039
DATE:	5/16/2011
DRAWN:	MEB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 100'

RW2.1

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No. 24757
LICENSED PROFESSIONAL ENGINEER

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TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

MAY RIVER ROAD IMPROVEMENTS PHASE II

RIGHT-OF-WAY

JOB NO:	J-23039
DATE:	5/16/2011
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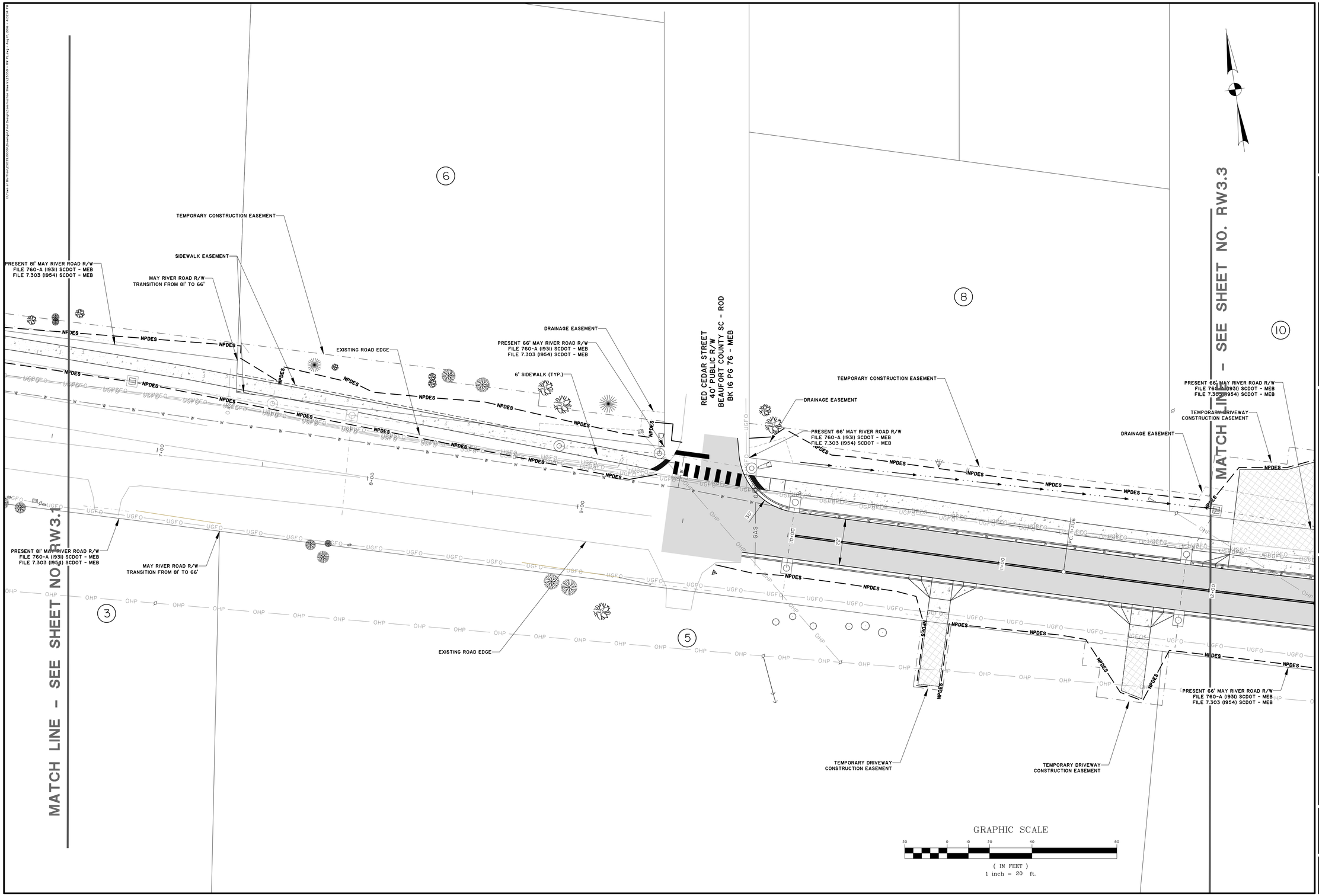
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 20'

RW3.1



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

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TOWN OF BLUFFTON
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MAY RIVER ROAD IMPROVEMENTS PHASE II

RIGHT-OF-WAY

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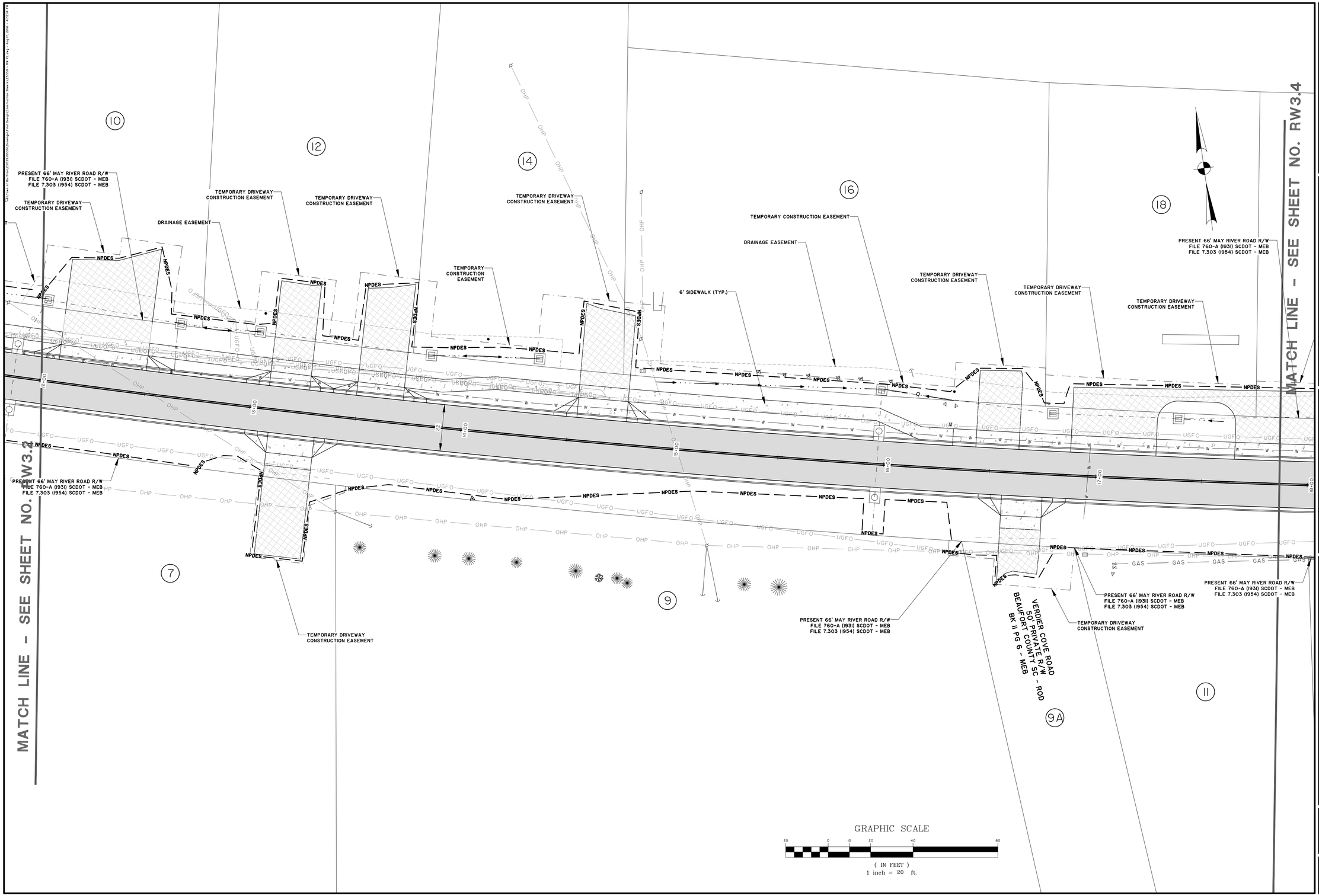
RW3.2



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TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

MAY RIVER ROAD IMPROVEMENTS PHASE II

RIGHT-OF-WAY

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DATE:	5/16/2011
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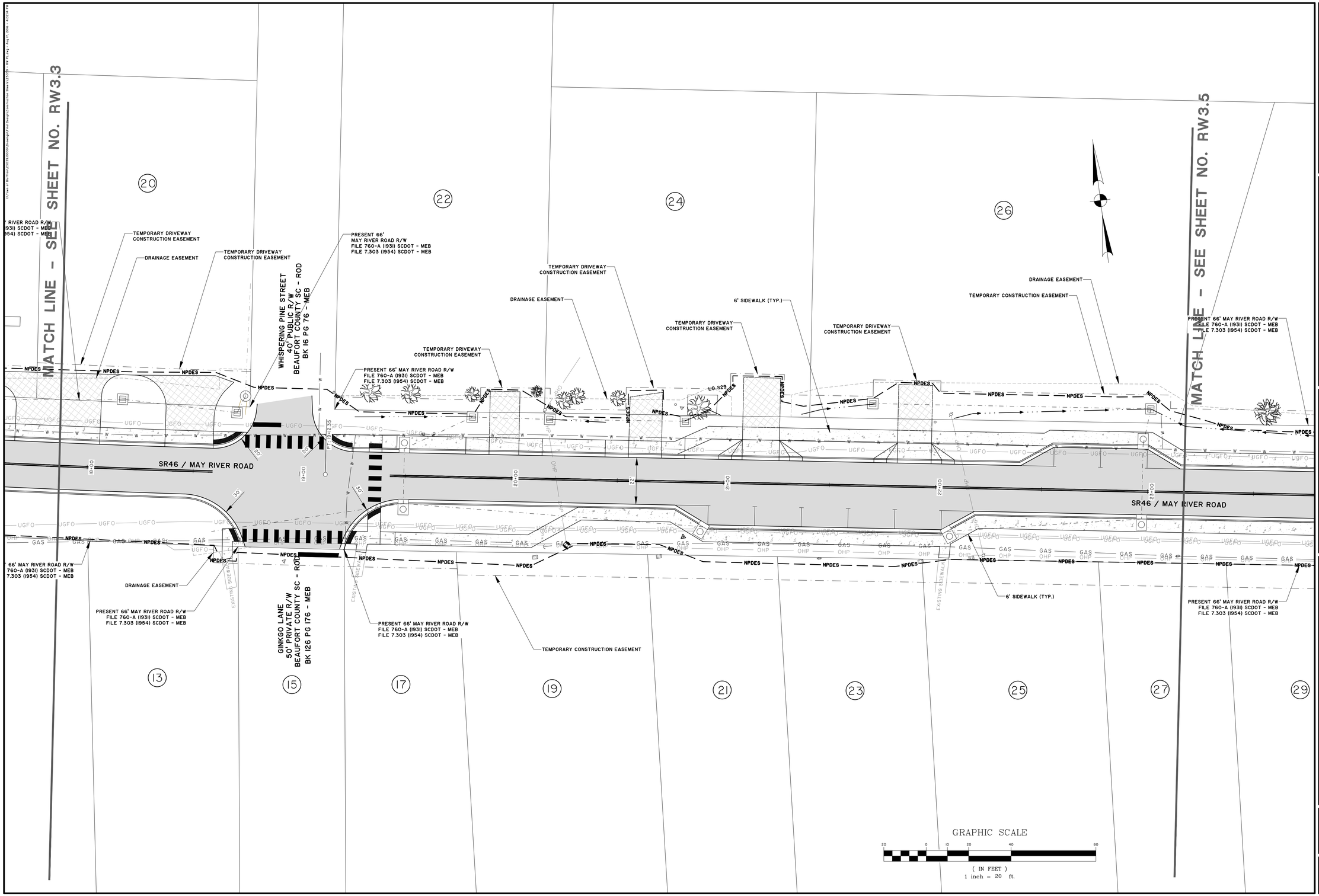
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 20'

RW3.3



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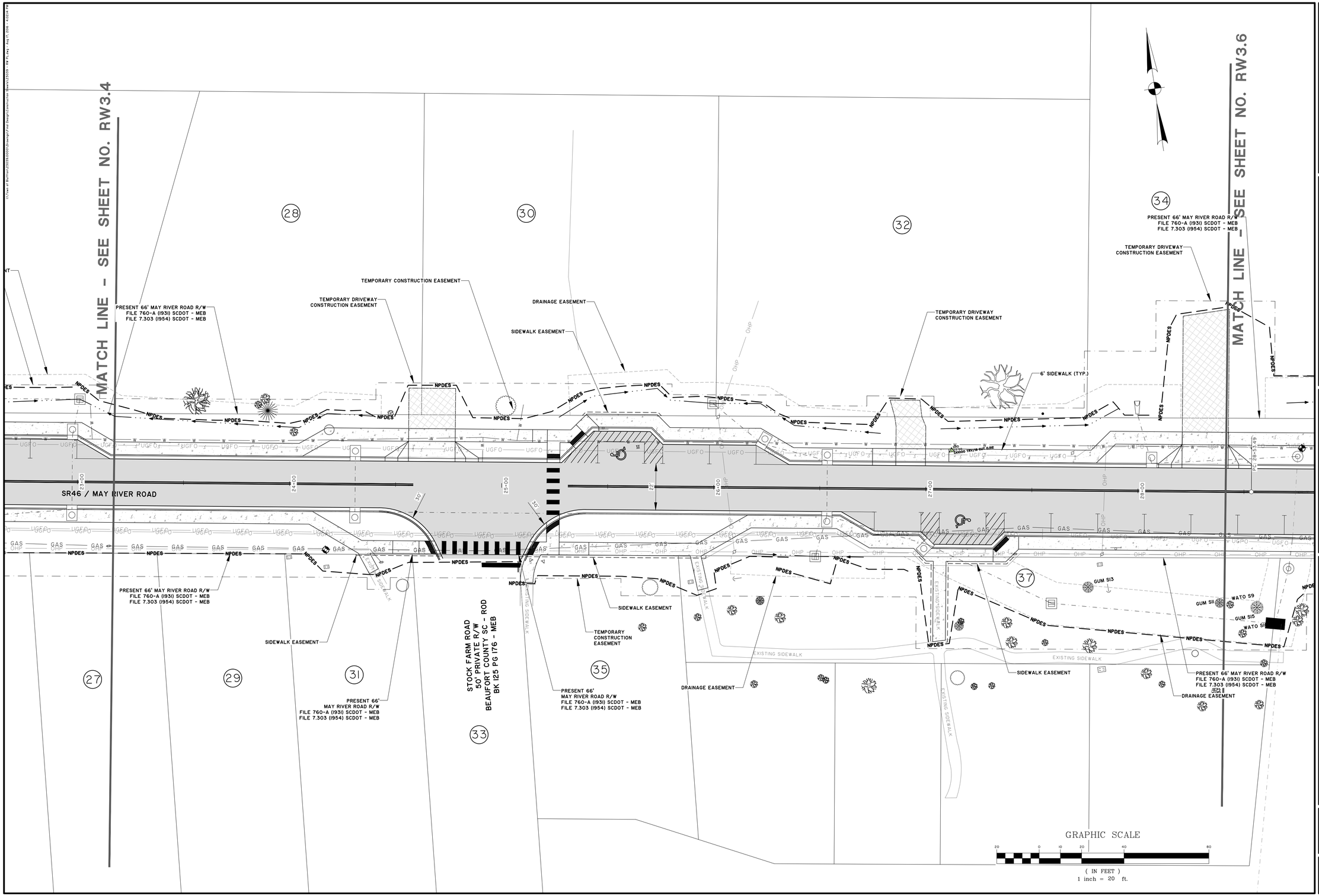
TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

MAY RIVER ROAD IMPROVEMENTS PHASE II

RIGHT OF WAY PLAN

JOB NO:	J-25039
DATE:	5/16/2011
DRAWN:	MEB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 20'

RW3.4



PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

SOUTH CAROLINA THOMAS & HUTTON ENGINEERING CERTIFICATE OF AUTHORIZATION No. C00285

SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED PROFESSIONAL ENGINEER No. 24757 RYAN M. SMITH

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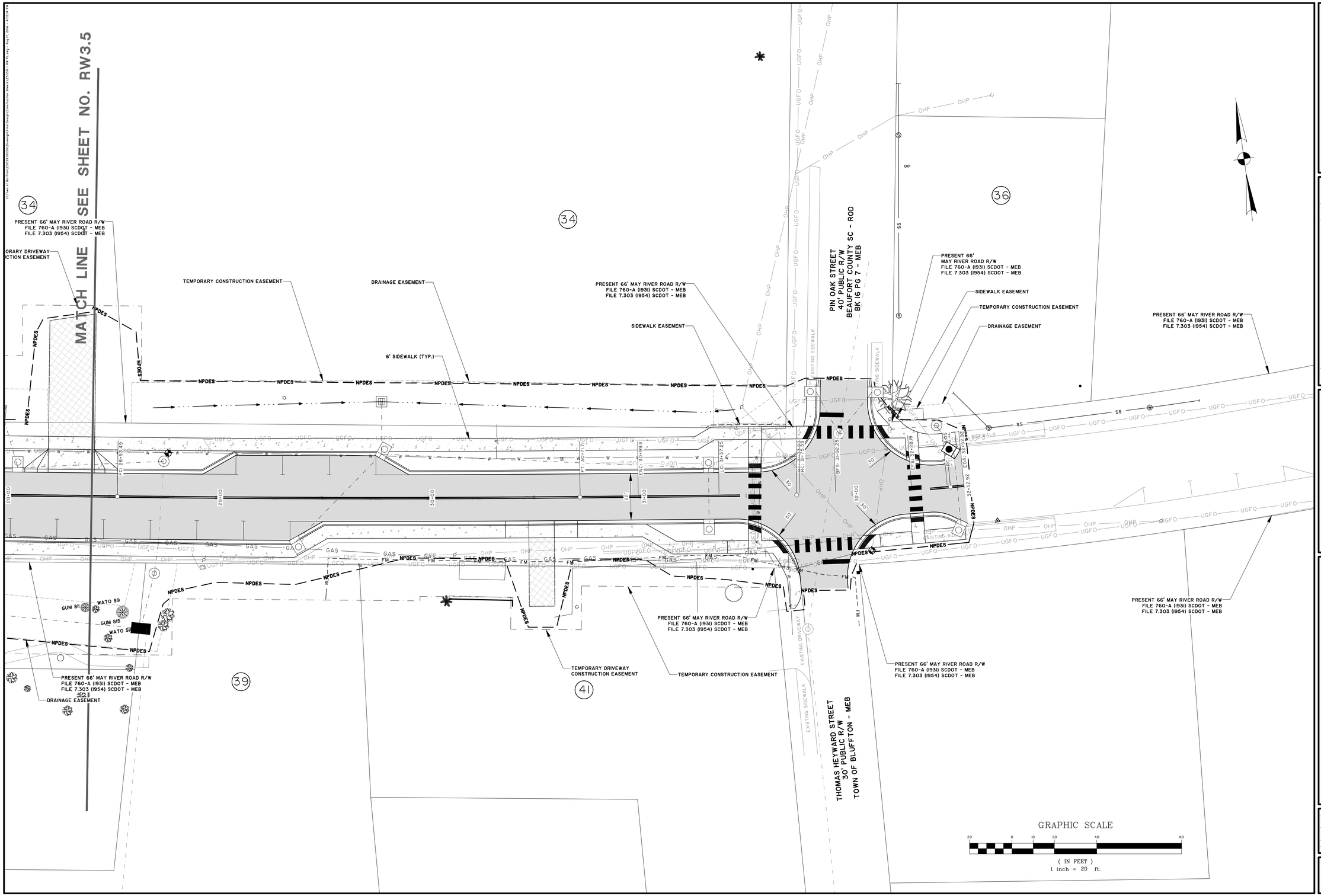
TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

MAY RIVER ROAD IMPROVEMENTS PHASE II

RIGHT-OF-WAY

JOB NO:	J-25039
DATE:	5/16/2011
DRAWN:	MEB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 20'

RW3.5



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SOUTH CAROLINA PROFESSIONAL ENGINEER CERTIFICATE OF AUTHORIZATION THOMAS & HUTTON ENGINEERING CO. No. C00285

SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED PERSON No. 24757 RYAN M. SMITH

NO.	REVISIONS	BY	DATE

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TOWN OF BLUFFTON
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MAY RIVER ROAD IMPROVEMENTS PHASE II

RIGHT-OF-WAY

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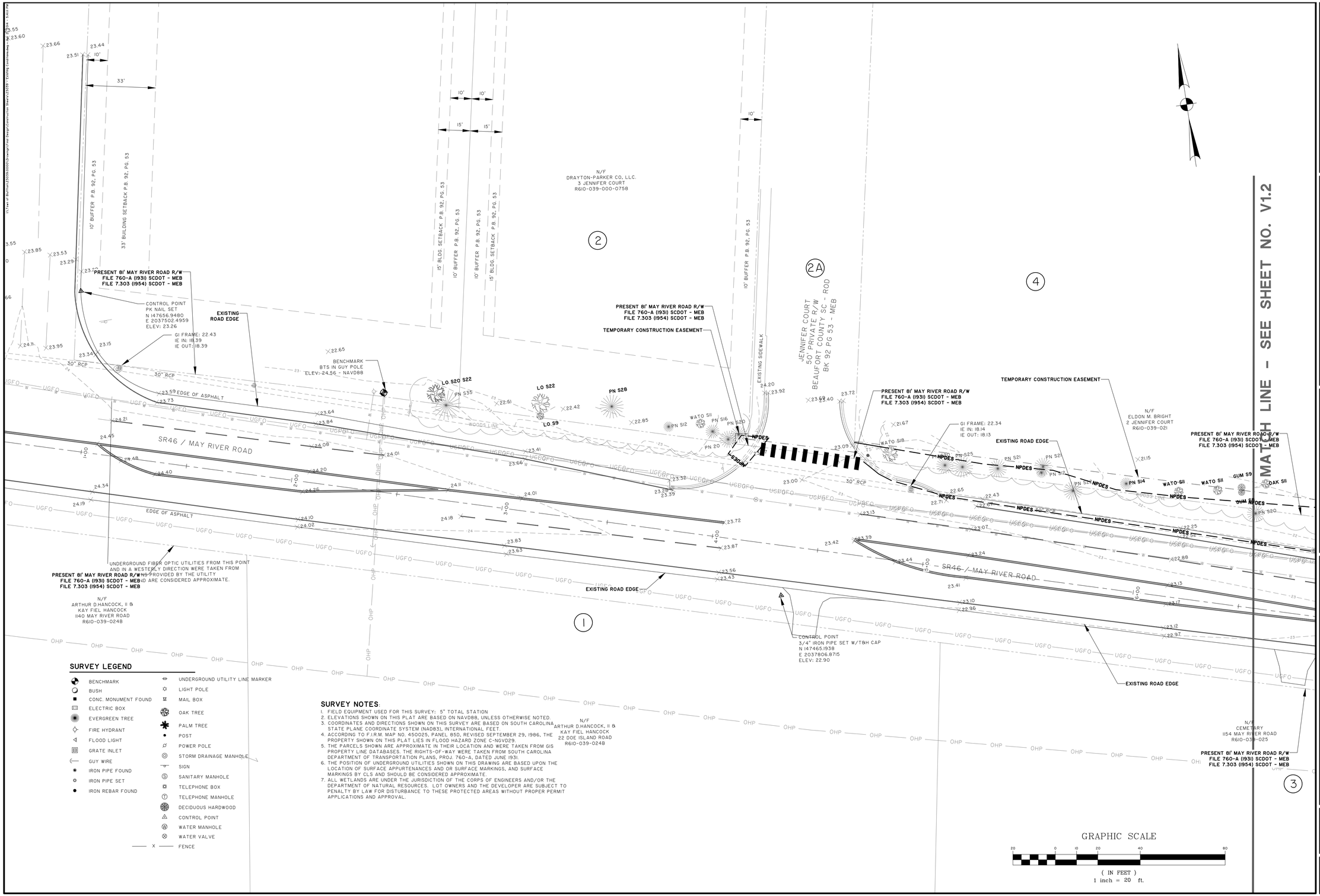
APPROVED:	RMS
SCALE:	1" = 20'

RW3.6



SURVEY LEGEND

- BENCHMARK
- BUSH
- CONC. MONUMENT FOUND
- ELECTRIC BOX
- EVERGREEN TREE
- FIRE HYDRANT
- FLOOD LIGHT
- GRATE INLET
- GUY WIRE
- IRON PIPE FOUND
- IRON PIPE SET
- IRON REBAR FOUND
- UNDERGROUND UTILITY LINE MARKER
- LIGHT POLE
- MAIL BOX
- OAK TREE
- PALM TREE
- POST
- POWER POLE
- STORM DRAINAGE MANHOLE
- SIGN
- SANITARY MANHOLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- DECIDUOUS HARDWOOD
- CONTROL POINT
- WATER MANHOLE
- WATER VALVE
- FENCE

SURVEY NOTES:

1. FIELD EQUIPMENT USED FOR THIS SURVEY: 5" TOTAL STATION
2. ELEVATIONS SHOWN ON THIS PLAT ARE BASED ON NAVD88, UNLESS OTHERWISE NOTED.
3. COORDINATES AND DIRECTIONS SHOWN ON THIS SURVEY ARE BASED ON SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM (NAD83), INTERNATIONAL FEET.
4. ACCORDING TO F.I.R.M. MAP NO. 450025, PANEL 85D, REVISED SEPTEMBER 29, 1986, THE PROPERTY SHOWN ON THIS PLAT LIES IN FLOOD HAZARD ZONE C-NGVD29.
5. THE PARCELS SHOWN ARE APPROXIMATE IN THEIR LOCATION AND WERE TAKEN FROM GIS PROPERTY LINE DATABASES. THE RIGHTS-OF-WAY WERE TAKEN FROM SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION PLANS, PROJ. 760-A, DATED JUNE 1931.
6. THE POSITION OF UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE BASED UPON THE LOCATION OF SURFACE APPURTENANCES AND OR SURFACE MARKINGS, AND SURFACE MARKINGS BY CLS AND SHOULD BE CONSIDERED APPROXIMATE.
7. ALL WETLANDS ARE UNDER THE JURISDICTION OF THE CORPS OF ENGINEERS AND/OR THE DEPARTMENT OF NATURAL RESOURCES. LOT OWNERS AND THE DEVELOPER ARE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE TO THESE PROTECTED AREAS WITHOUT PROPER PERMIT APPLICATIONS AND APPROVAL.

SOUTH CAROLINA THOMAS & HUTTON ENGINEERING CO. No. C00285 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24757 LICENSED PROFESSIONAL ENGINEER RYAN M. SMITH

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TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

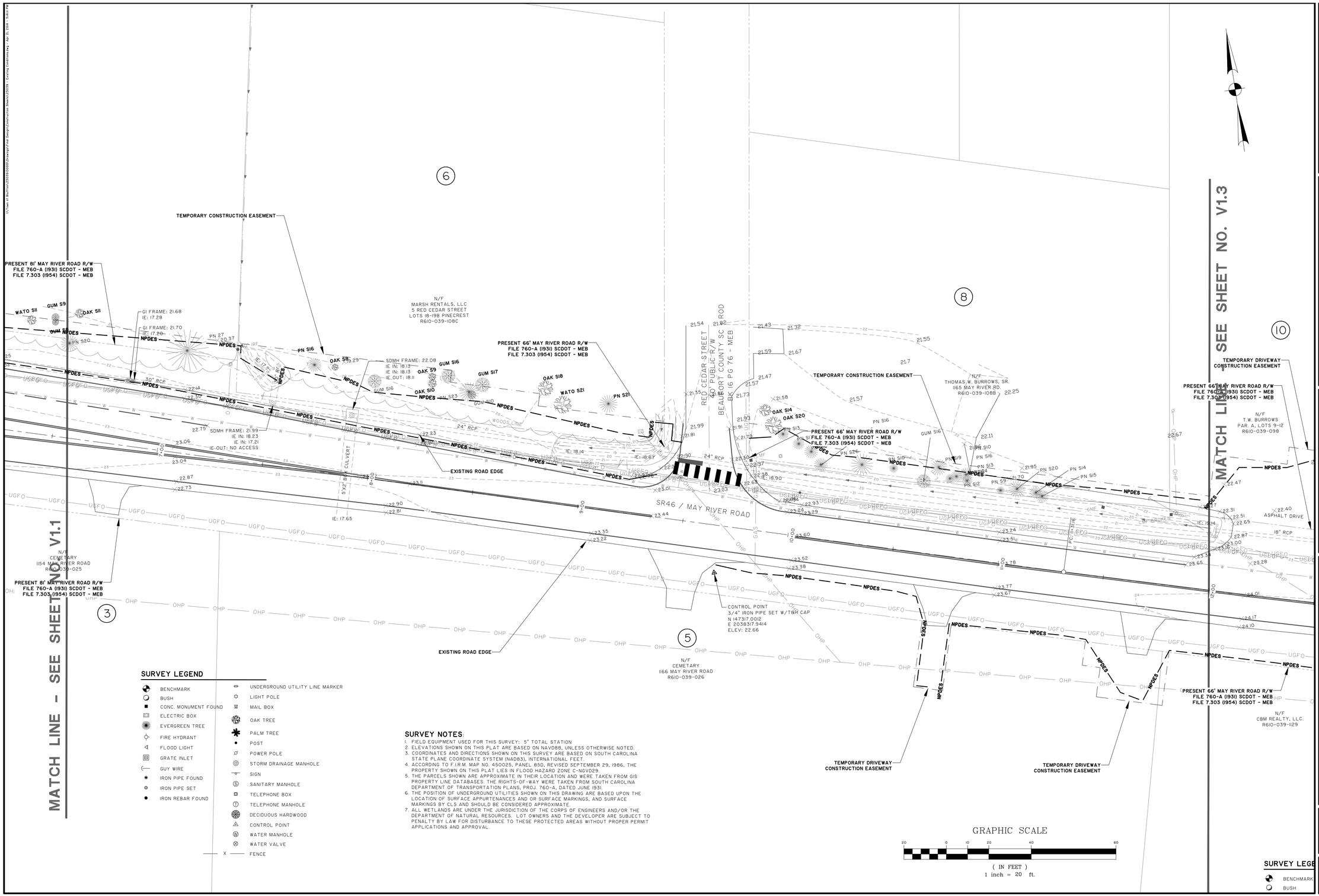
MAY RIVER ROAD IMPROVEMENTS PHASE II

EXISTING CONDITIONS AND SURVEY CONTROL

JOB NO:	J-23039
DATE:	5/16/2011
DRAWN:	DMB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 20'

V1.1

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION



SURVEY LEGEND

- BENCHMARK
- BUSH
- CONC. MONUMENT FOUND
- ELECTRIC BOX
- EVERGREEN TREE
- FIRE HYDRANT
- FLOOD LIGHT
- GRATE INLET
- GUY WIRE
- IRON PIPE FOUND
- IRON PIPE SET
- IRON REBAR FOUND
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- LIGHT POLE
- MAIL BOX
- OAK TREE
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- POST
- POWER POLE
- STORM DRAINAGE MANHOLE
- SIGN
- SANITARY MANHOLE
- TELEPHONE BOX
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5. THE PARCELS SHOWN ARE APPROXIMATE IN THEIR LOCATION AND WERE TAKEN FROM GIS PROPERTY LINE DATABASES. THE RIGHTS-OF-WAY WERE TAKEN FROM SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION PLANS, PROJ. 760-A, DATED JUNE 1931.
6. THE POSITION OF UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE BASED UPON THE LOCATION OF SURFACE APPURTENANCES AND OR SURFACE MARKINGS, AND SURFACE MARKINGS BY CLS AND SHOULD BE CONSIDERED APPROXIMATE.
7. ALL WETLANDS ARE UNDER THE JURISDICTION OF THE CORPS OF ENGINEERS AND/OR THE DEPARTMENT OF NATURAL RESOURCES. LOT OWNERS AND THE DEVELOPER ARE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE TO THESE PROTECTED AREAS WITHOUT PROPER PERMIT APPLICATIONS AND APPROVAL.

SURVEY LEGE

- BENCHMARK
- BUSH

SOUTH CAROLINA THOMAS & HUTTON ENGINEERING CO. No. C00285 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24757 LICENSED PERSON RYAN M. SMITH

NO.	REVISIONS	BY	DATE

THOMAS & HUTTON
Engineering | Surveying | Planning | GIS | Consulting
50 Park of Commerce Way • PO Box 2727
Savannah, GA 31402-2727 • 912.234.5300
www.thomasandhutton.com
Brunswick, GA | Charleston, SC | Myrtle Beach, SC | Wilmington, NC

TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

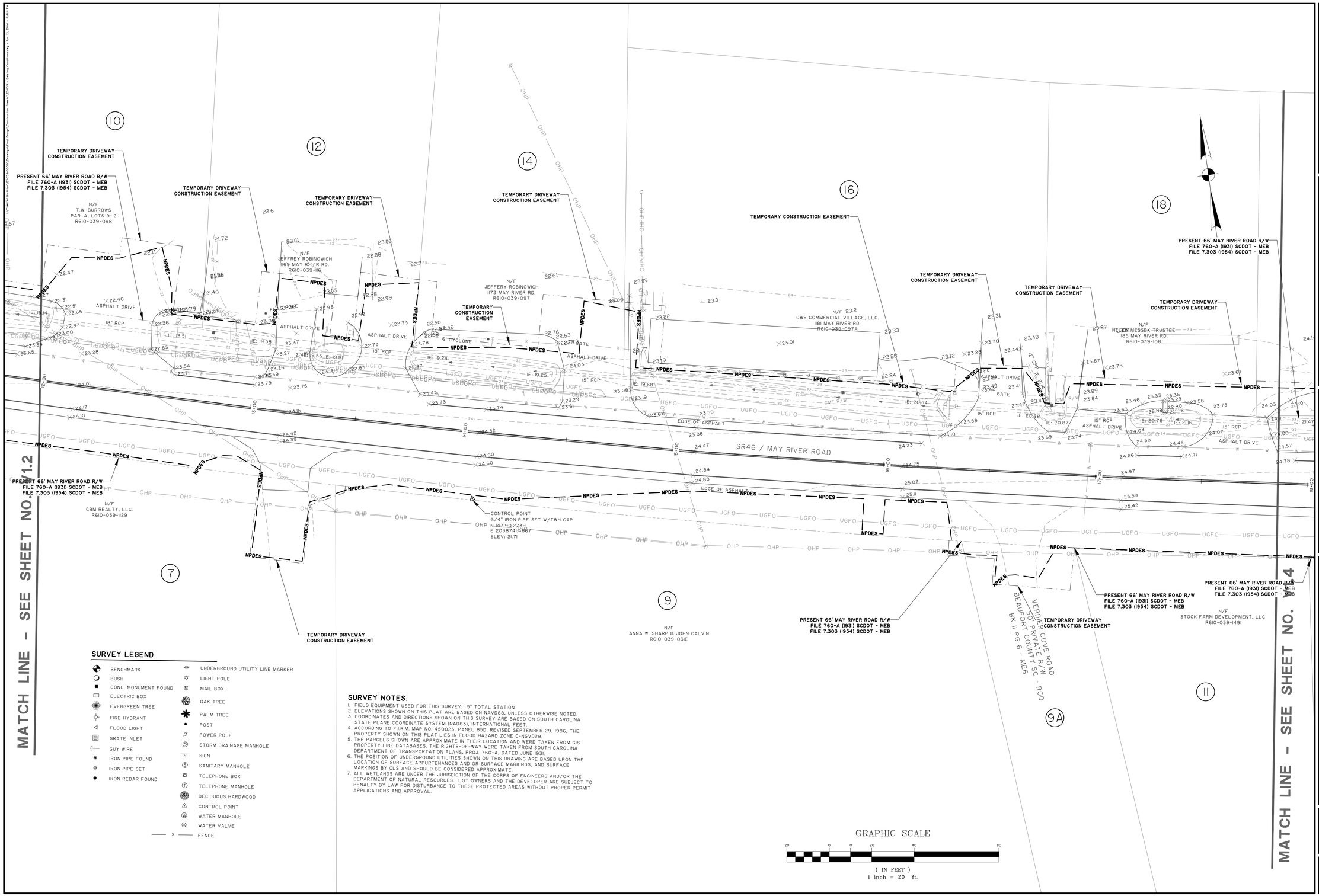
MAY RIVER ROAD IMPROVEMENTS PHASE II

EXISTING CONDITIONS AND SURVEY CONTROL

JOB NO:	J-23039
DATE:	5/16/2011
DRAWN:	DMB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 20'

V1.2

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION



SURVEY LEGEND

- BENCHMARK
- BUSH
- CONC. MONUMENT FOUND
- ELECTRIC BOX
- EVERGREEN TREE
- FIRE HYDRANT
- FLOOD LIGHT
- GRATE INLET
- GUY WIRE
- IRON PIPE FOUND
- IRON PIPE SET
- IRON REBAR FOUND
- UNDERGROUND UTILITY LINE MARKER
- LIGHT POLE
- MAIL BOX
- OAK TREE
- PALM TREE
- POST
- POWER POLE
- STORM DRAINAGE MANHOLE
- SIGN
- SANITARY MANHOLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- DECIDUOUS HARDWOOD
- CONTROL POINT
- WATER MANHOLE
- WATER VALVE
- X — FENCE

SURVEY NOTES:

1. FIELD EQUIPMENT USED FOR THIS SURVEY: 5" TOTAL STATION
2. ELEVATIONS SHOWN ON THIS PLAT ARE BASED ON NAVD88, UNLESS OTHERWISE NOTED.
3. COORDINATES AND DIRECTIONS SHOWN ON THIS SURVEY ARE BASED ON SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM (NAD83), INTERNATIONAL FEET.
4. ACCORDING TO F.I.R.M. MAP NO. 450025, PANEL 850, REVISED SEPTEMBER 29, 1986, THE PROPERTY SHOWN ON THIS PLAT LIES IN FLOOD HAZARD ZONE C-NGVD29.
5. THE PARCELS SHOWN ARE APPROXIMATE IN THEIR LOCATION AND WERE TAKEN FROM GIS PROPERTY LINE DATABASES. THE RIGHTS-OF-WAY WERE TAKEN FROM SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION PLANS, PROJ. 760-A, DATED JUNE 1931.
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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

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V1.3

SURVEY LEGEND

- BENCHMARK
- BUSH
- CONC. MONUMENT FOUND
- ELECTRIC BOX
- EVERGREEN TREE
- FIRE HYDRANT
- FLOOD LIGHT
- GRATE INLET
- GUY WIRE
- IRON PIPE FOUND
- IRON PIPE SET
- IRON REBAR FOUND
- UNDERGROUND UTILITY LINE MARKER
- LIGHT POLE
- MAIL BOX
- OAK TREE
- PALM TREE
- POST
- POWER POLE
- STORM DRAINAGE MANHOLE
- SIGN
- SANITARY MANHOLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- DECIDUOUS HARDWOOD
- CONTROL POINT
- WATER MANHOLE
- WATER VALVE
- FENCE

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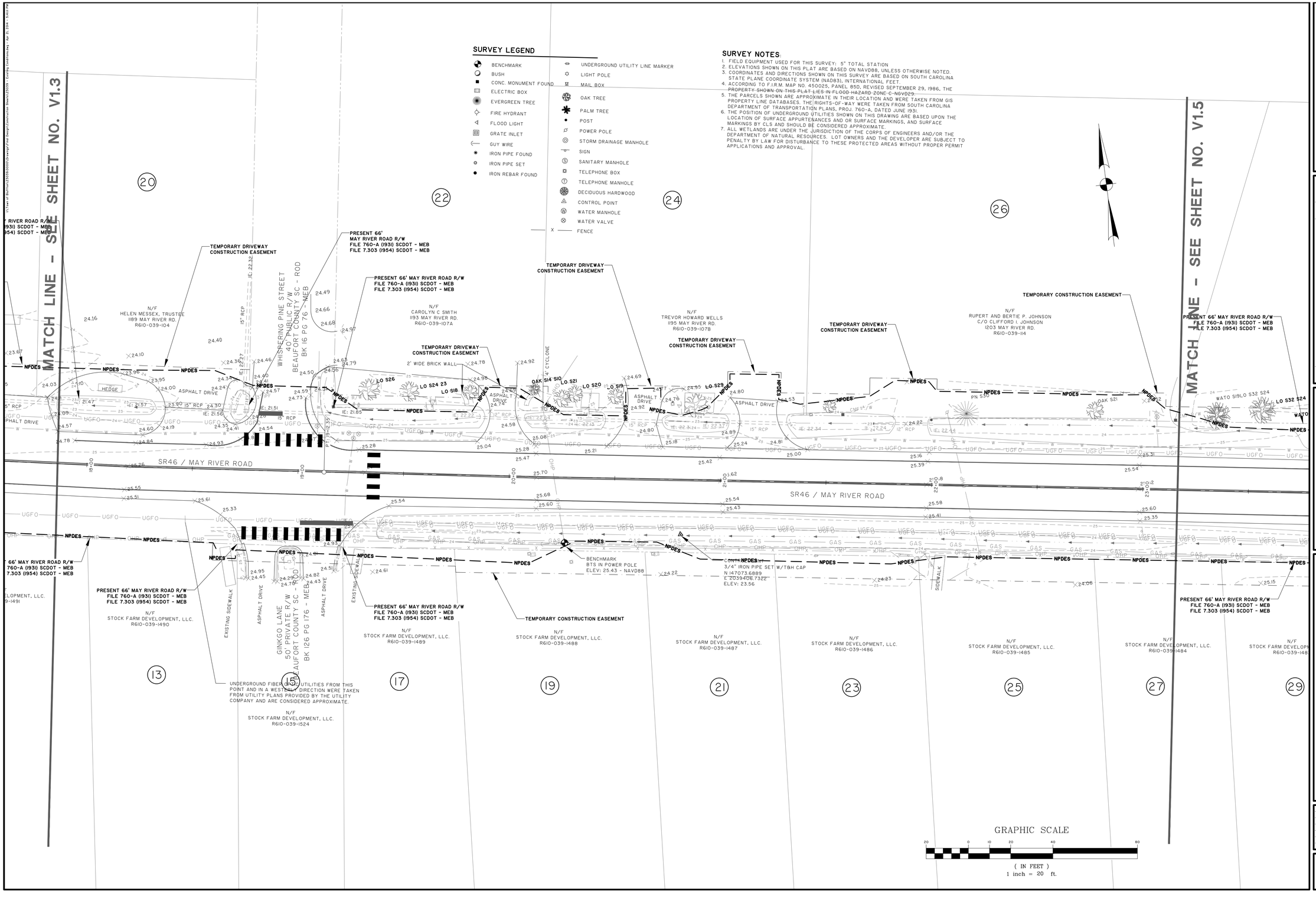

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

SOUTH CAROLINA PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORIZATION THOMAS & HUTTON ENGINEERING CO. No. C00285

SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED PERSON No. 24757 RYAN M. SMITH

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MAY RIVER ROAD IMPROVEMENTS PHASE II

EXISTING CONDITIONS AND SURVEY CONTROL

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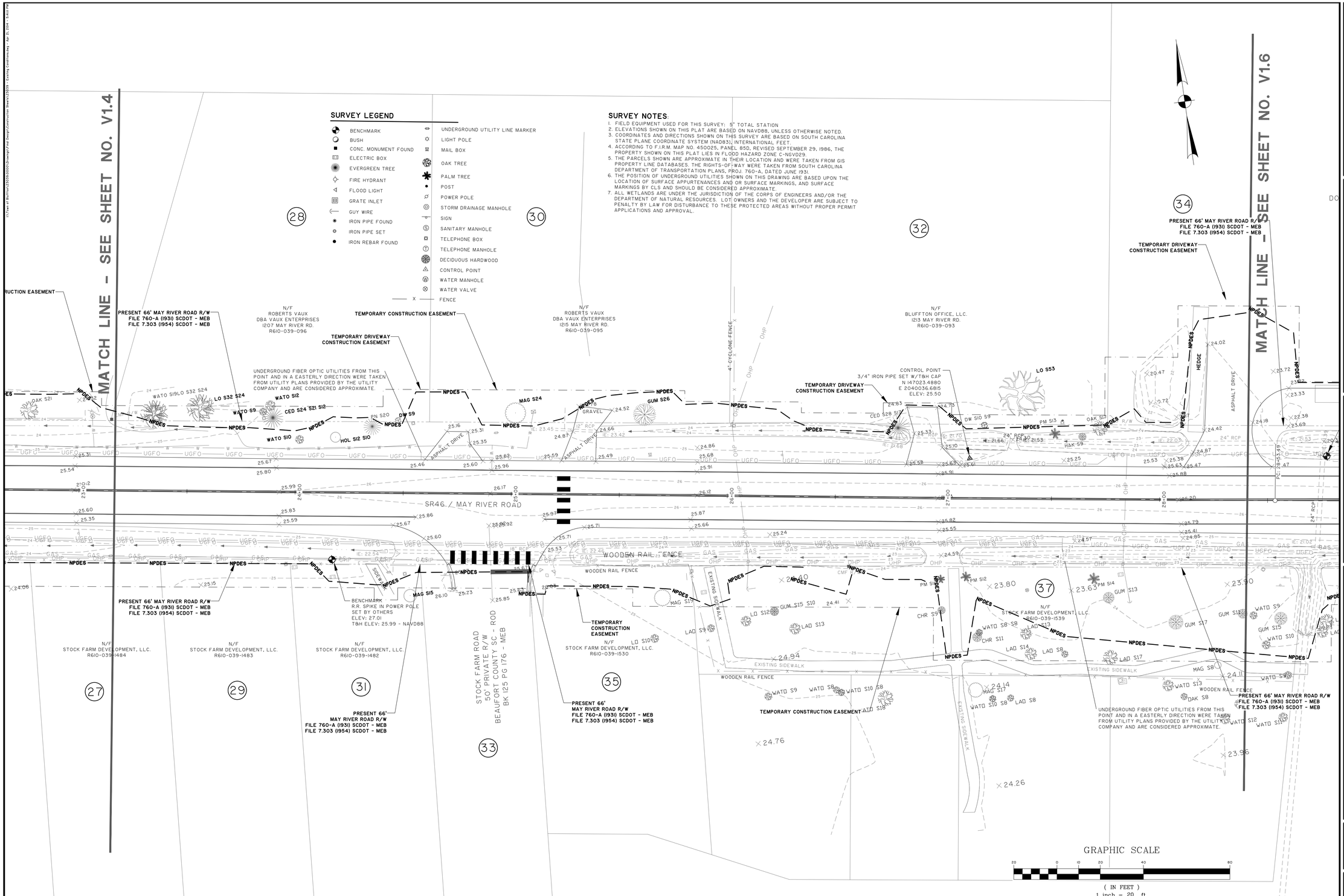
V1.4



SOUTH CAROLINA THOMAS & HUTTON ENGINEERING CO. No. C00285 CERTIFICATE OF AUTHORIZATION

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V1.5

SURVEY LEGEND

- BENCHMARK
- BUSH
- CONC. MONUMENT FOUND
- ELECTRIC BOX
- EVERGREEN TREE
- FIRE HYDRANT
- FLOOD LIGHT
- GRATE INLET
- GUY WIRE
- IRON PIPE FOUND
- IRON PIPE SET
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- TELEPHONE MANHOLE
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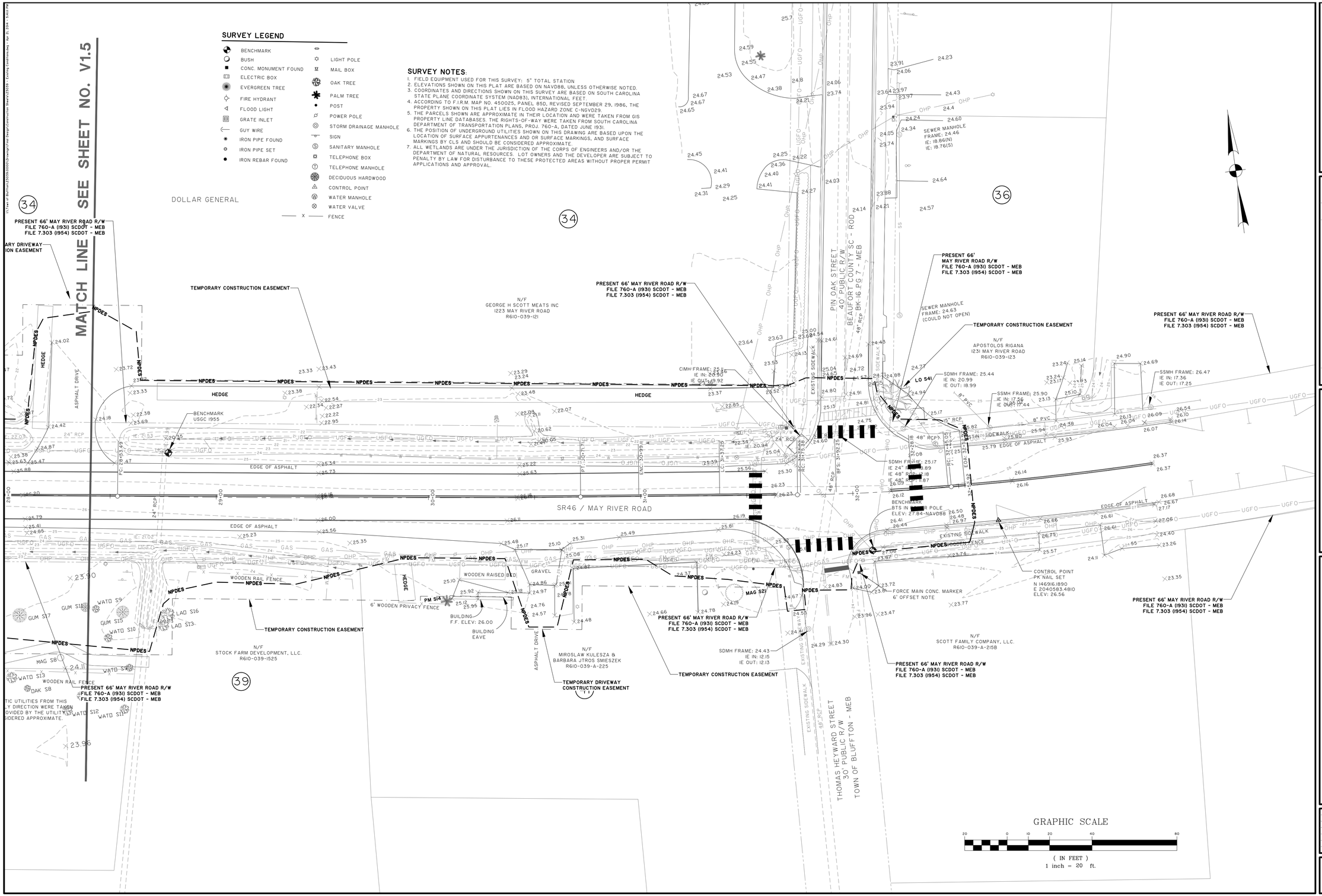

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

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TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

MAY RIVER ROAD IMPROVEMENTS PHASE II

EXISTING CONDITIONS AND SURVEY CONTROL

JOB NO:	J-23039
DATE:	5/16/2011
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DESIGNED:	RMS
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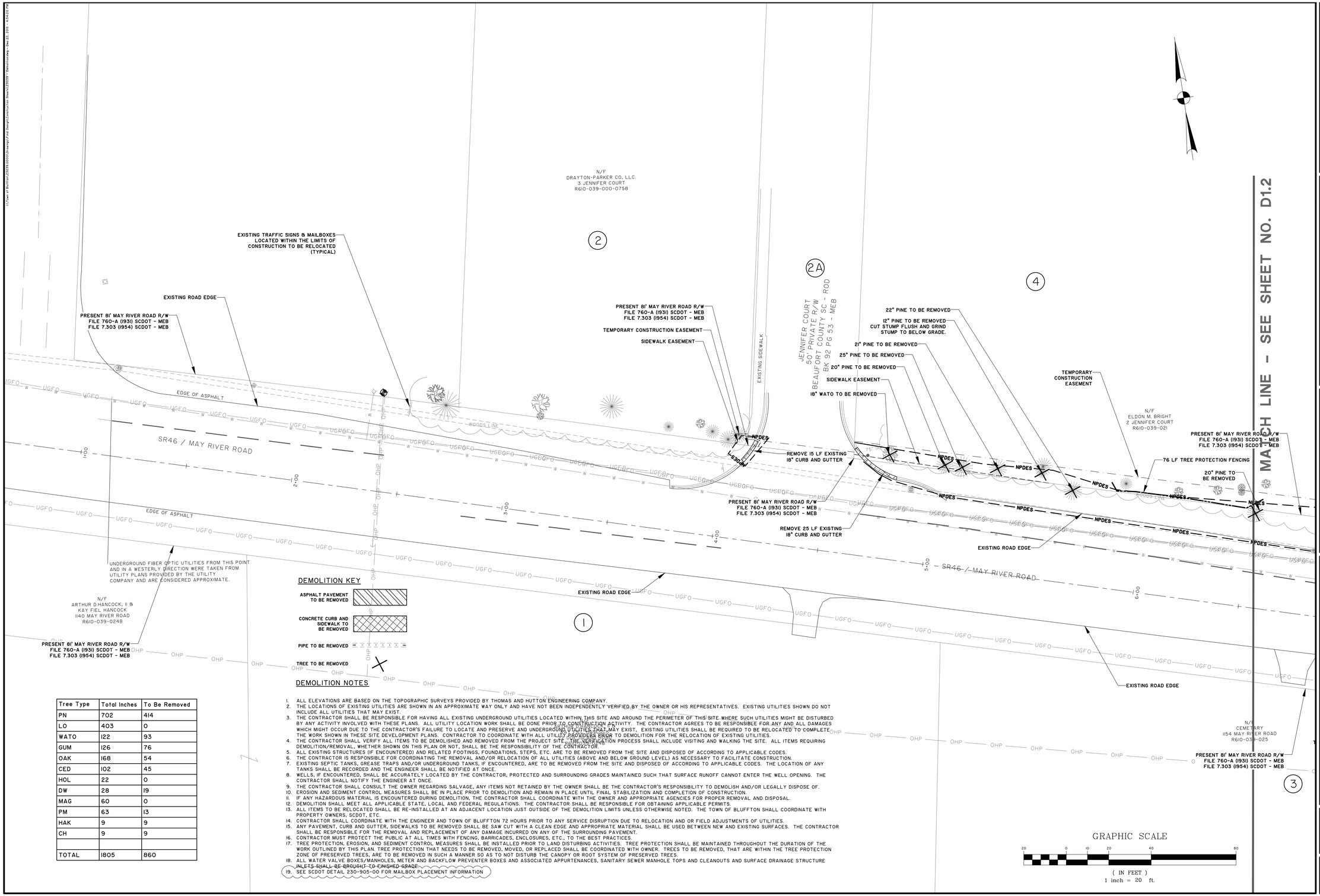
APPROVED:	RMS
SCALE:	1" = 20'

V1.6



Tree Type	Total Inches	To Be Removed
PN	702	414
LO	403	0
WATO	122	93
GUM	126	76
OAK	168	54
CED	102	45
HOL	22	0
DW	28	19
MAG	60	0
PM	63	13
HAK	9	9
CH	9	9
TOTAL	1805	860

DEMOLITION NOTES

1. ALL ELEVATIONS ARE BASED ON THE TOPOGRAPHIC SURVEYS PROVIDED BY THOMAS AND HUTTON ENGINEERING COMPANY.
2. THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR HIS REPRESENTATIVES. EXISTING UTILITIES SHOWN DO NOT INCLUDE ALL UTILITIES THAT MAY EXIST.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL EXISTING UNDERGROUND UTILITIES LOCATED WITHIN THIS SITE AND AROUND THE PERIMETER OF THIS SITE WHERE SUCH UTILITIES MIGHT BE DISTURBED BY ANY ACTIVITY INVOLVED WITH THESE PLANS. ALL UTILITY LOCATION WORK SHALL BE DONE PRIOR TO CONSTRUCTION ACTIVITY. THE CONTRACTOR AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE AND UNDERGROUND UTILITIES THAT MAY EXIST, EXISTING UTILITIES SHALL BE REQUIRED TO BE RELOCATED TO COMPLETE THE WORK SHOWN IN THESE SITE DEVELOPMENT PLANS. CONTRACTOR TO COORDINATE WITH ALL UTILITY PROVIDERS PRIOR TO DEMOLITION FOR THE RELOCATION OF EXISTING UTILITIES.
4. THE CONTRACTOR SHALL VERIFY ALL ITEMS TO BE DEMOLISHED AND REMOVED FROM THE PROJECT SITE. THE VERIFICATION PROCESS SHALL INCLUDE VISITING AND WALKING THE SITE. ALL ITEMS REQUIRING DEMOLITION/REMOVAL, WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXISTING STRUCTURES (IF ENCOUNTERED) AND RELATED FOOTINGS, FOUNDATIONS, STEPS, ETC. ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF ACCORDING TO APPLICABLE CODES.
6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REMOVAL AND/OR RELOCATION OF ALL UTILITIES (ABOVE AND BELOW GROUND LEVEL) AS NECESSARY TO FACILITATE CONSTRUCTION.
7. EXISTING SEPTIC TANKS, GREASE TRAPS AND/OR UNDERGROUND TANKS, IF ENCOUNTERED, ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF ACCORDING TO APPLICABLE CODES. THE LOCATION OF ANY TANKS SHALL BE RECORDED AND THE ENGINEER SHALL BE NOTIFIED AT ONCE.
8. WELLS, IF ENCOUNTERED, SHALL BE ACCURATELY LOCATED BY THE CONTRACTOR, PROTECTED AND SURROUNDING GRADES MAINTAINED SUCH THAT SURFACE RUNOFF CANNOT ENTER THE WELL OPENING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT ONCE.
9. THE CONTRACTOR SHALL CONSULT THE OWNER REGARDING SALVAGE, ANY ITEMS NOT RETAINED BY THE OWNER SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DEMOLISH AND/OR LEGALLY DISPOSE OF.
10. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO DEMOLITION AND REMAIN IN PLACE UNTIL FINAL STABILIZATION AND COMPLETION OF CONSTRUCTION.
11. IF ANY HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE AGENCIES FOR PROPER REMOVAL AND DISPOSAL.
12. DEMOLITION SHALL MEET ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS.
13. ALL ITEMS TO BE RELOCATED SHALL BE RE-INSTALLED AT AN ADJACENT LOCATION JUST OUTSIDE OF THE DEMOLITION LIMITS UNLESS OTHERWISE NOTED. THE TOWN OF BLUFFTON SHALL COORDINATE WITH PROPERTY OWNERS, SCDOT, ETC.
14. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND TOWN OF BLUFFTON 72 HOURS PRIOR TO ANY SERVICE DISRUPTION DUE TO RELOCATION AND OR FIELD ADJUSTMENTS OF UTILITIES.
15. ANY PAVEMENT, CURB AND GUTTER, SIDEWALKS TO BE REMOVED SHALL BE SAW CUT WITH A CLEAN EDGE AND APPROPRIATE MATERIAL SHALL BE USED BETWEEN NEW AND EXISTING SURFACES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ANY DAMAGE INCURRED ON ANY OF THE SURROUNDING PAVEMENT.
16. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES.
17. TREE PROTECTION, EROSION, AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES. TREE PROTECTION SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE WORK OUTLINED BY THIS PLAN. TREE PROTECTION THAT NEEDS TO BE REMOVED, MOVED, OR REPLACED SHALL BE COORDINATED WITH OWNER. TREES TO BE REMOVED, THAT ARE WITHIN THE TREE PROTECTION ZONE OF PRESERVED TREES, ARE TO BE REMOVED IN SUCH A MANNER SO AS TO NOT DISTURB THE CANOPY OR ROOT SYSTEM OF PRESERVED TREES.
18. ALL WATER VALVE BOXES/MANHOLES, METER AND BACKFLOW PREVENTER BOXES AND ASSOCIATED APPURTENANCES, SANITARY SEWER MANHOLE TOPS AND CLEANOUTS AND SURFACE DRAINAGE STRUCTURE ~~INLETS SHALL BE BROUGHT TO FINISHED GRADE~~
19. SEE SCDOT DETAIL 230-905-00 FOR MAILBOX PLACEMENT INFORMATION

SOUTH CAROLINA
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No. 24757
LICENSED
RYAN M. SMITH

NO.	REVISIONS	BY	DATE
2	REVISED PER SCDOT COMMENTS	MCS	4-25-12

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TOWN OF BLUFFTON

BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

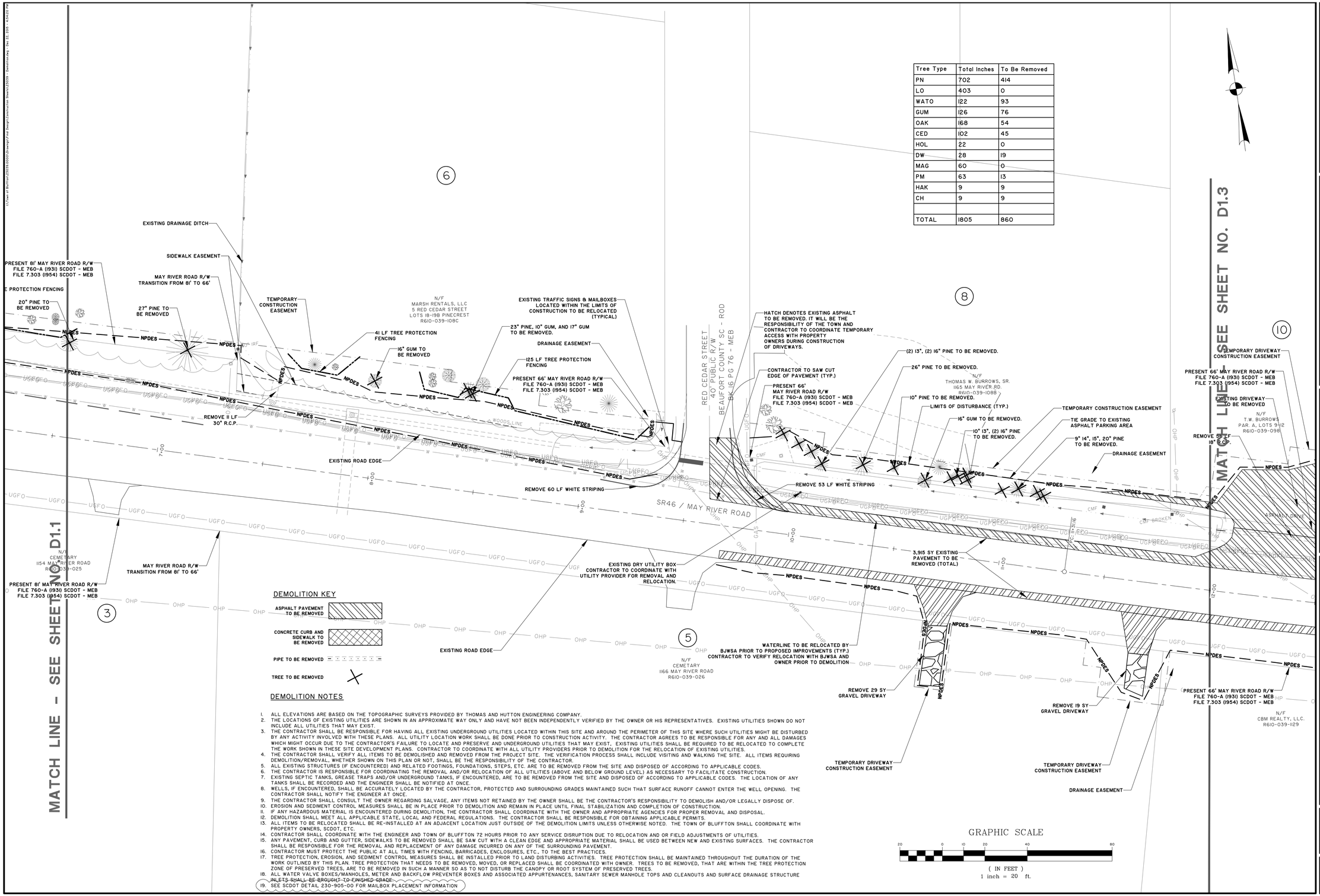
MAY RIVER ROAD IMPROVEMENTS PHASE II

DEMOLITION PLAN

JOB NO:	J-23039
DATE:	5/16/2011
DRAWN:	DMB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 20'

D1.1

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION



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TOTAL	1805	860

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PROFESSIONAL ENGINEER
No. 24757
LICENSED
RYAN M. SMITH

NO.	REVISIONS	BY	DATE
2	REVISED PER SCDOT COMMENTS	MCS	4-25-12

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

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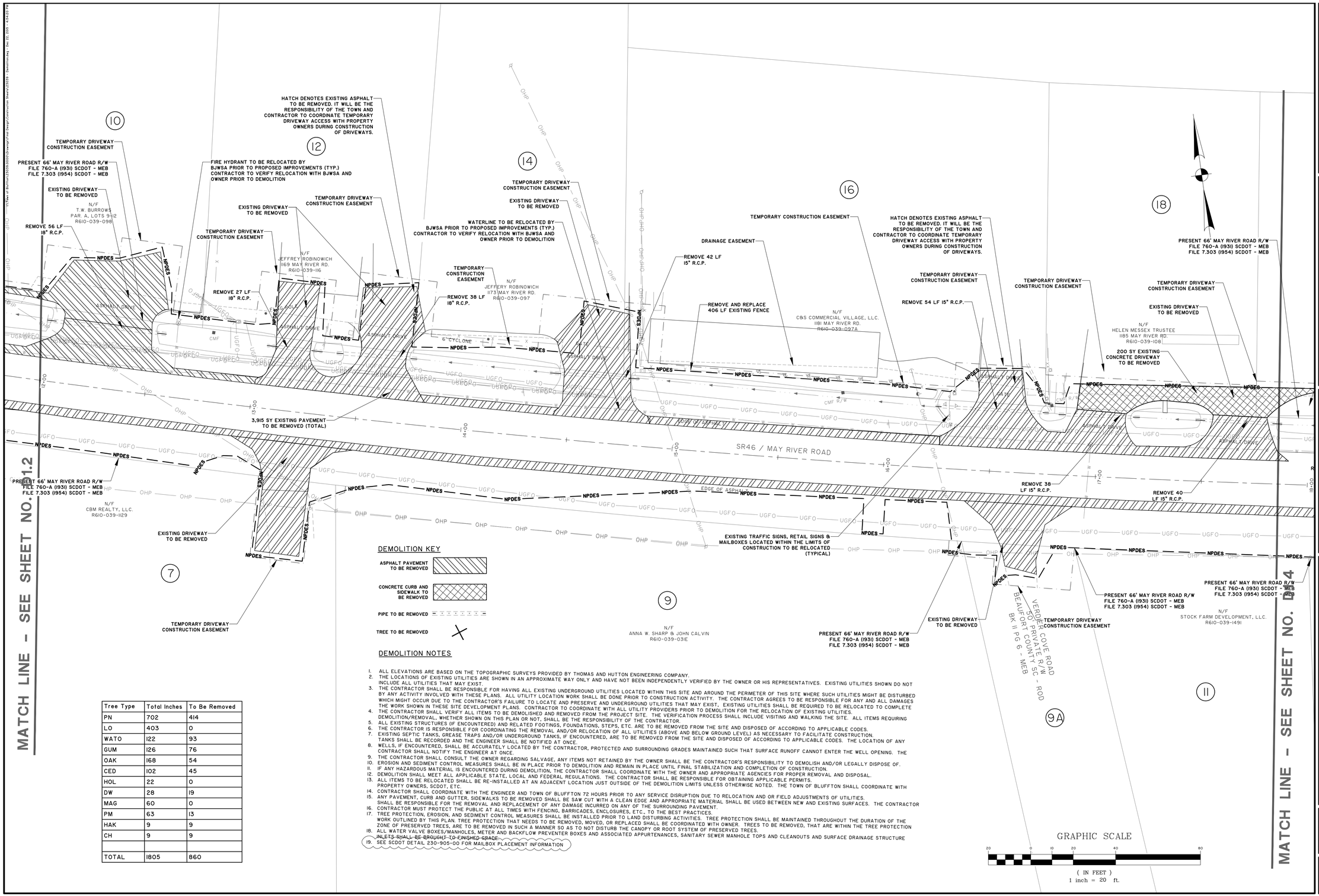
TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

MAY RIVER ROAD IMPROVEMENTS PHASE II

DEMOLITION PLAN

JOB NO:	J-23039
DATE:	5/16/2011
DRAWN:	DMB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 20'

D1.2



DEMOLITION KEY

- ASPHALT PAVEMENT TO BE REMOVED
- CONCRETE CURB AND SIDEWALK TO BE REMOVED
- PIPE TO BE REMOVED
- TREE TO BE REMOVED

DEMOLITION NOTES

1. ALL ELEVATIONS ARE BASED ON THE TOPOGRAPHIC SURVEYS PROVIDED BY THOMAS AND HUTTON ENGINEERING COMPANY.
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19. SEE SCDOT DETAIL 230-905-00 FOR MAILBOX PLACEMENT INFORMATION

Tree Type	Total Inches	To Be Removed
PN	702	414
LO	403	0
WATO	122	93
GUM	126	76
OAK	168	54
CED	102	45
HOL	22	0
DW	28	19
MAG	60	0
PM	63	13
HAK	9	9
CH	9	9
TOTAL	1805	860

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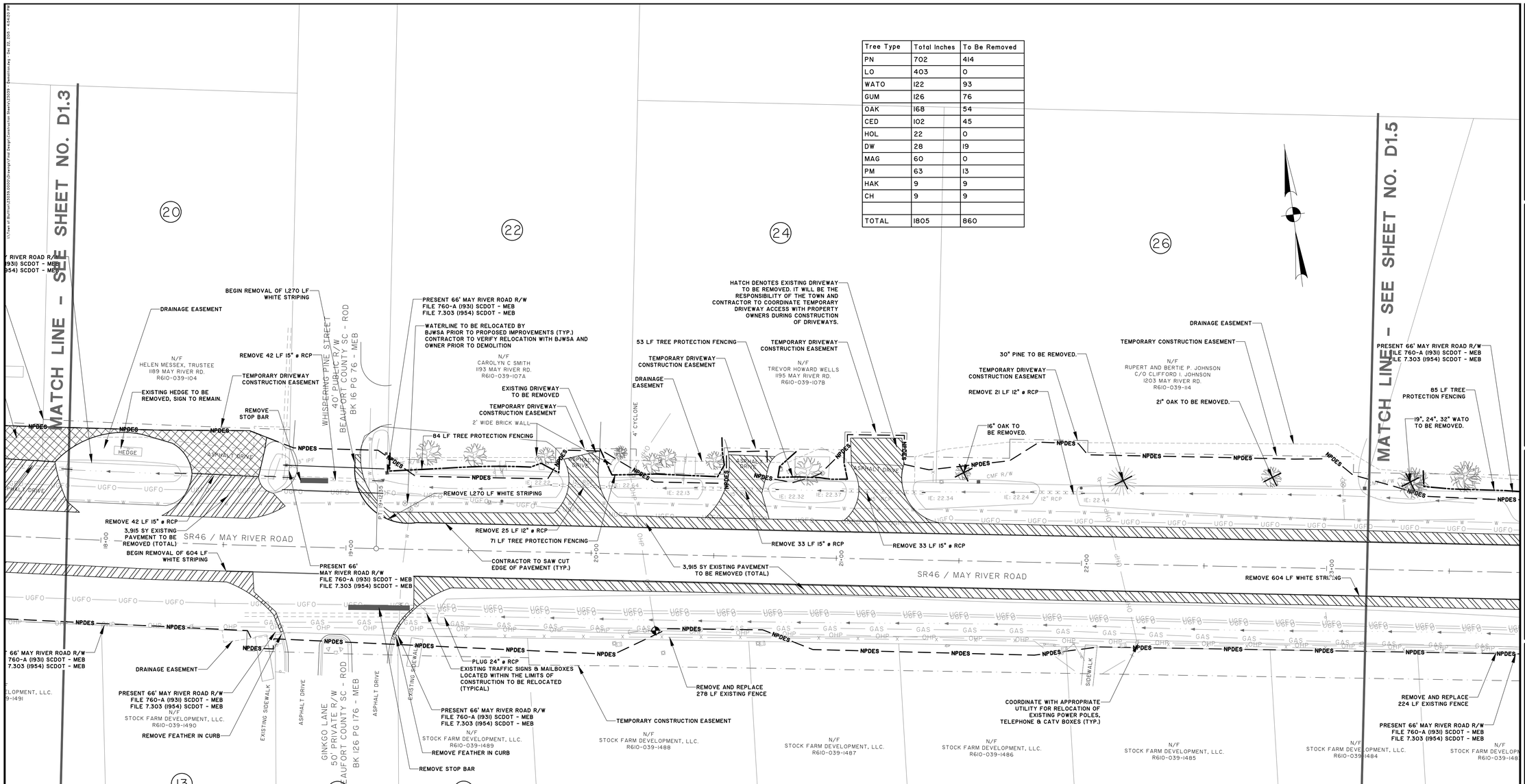

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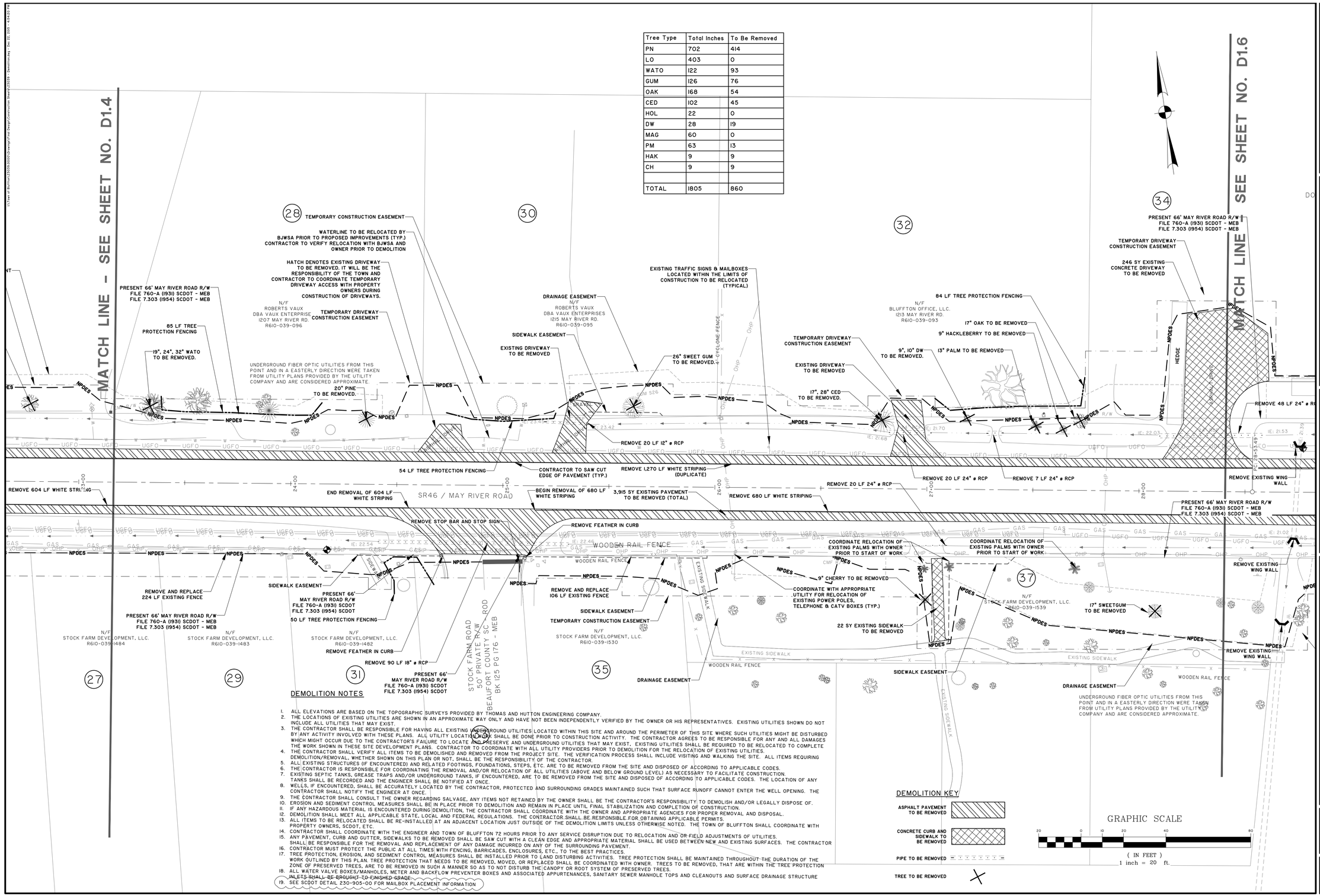

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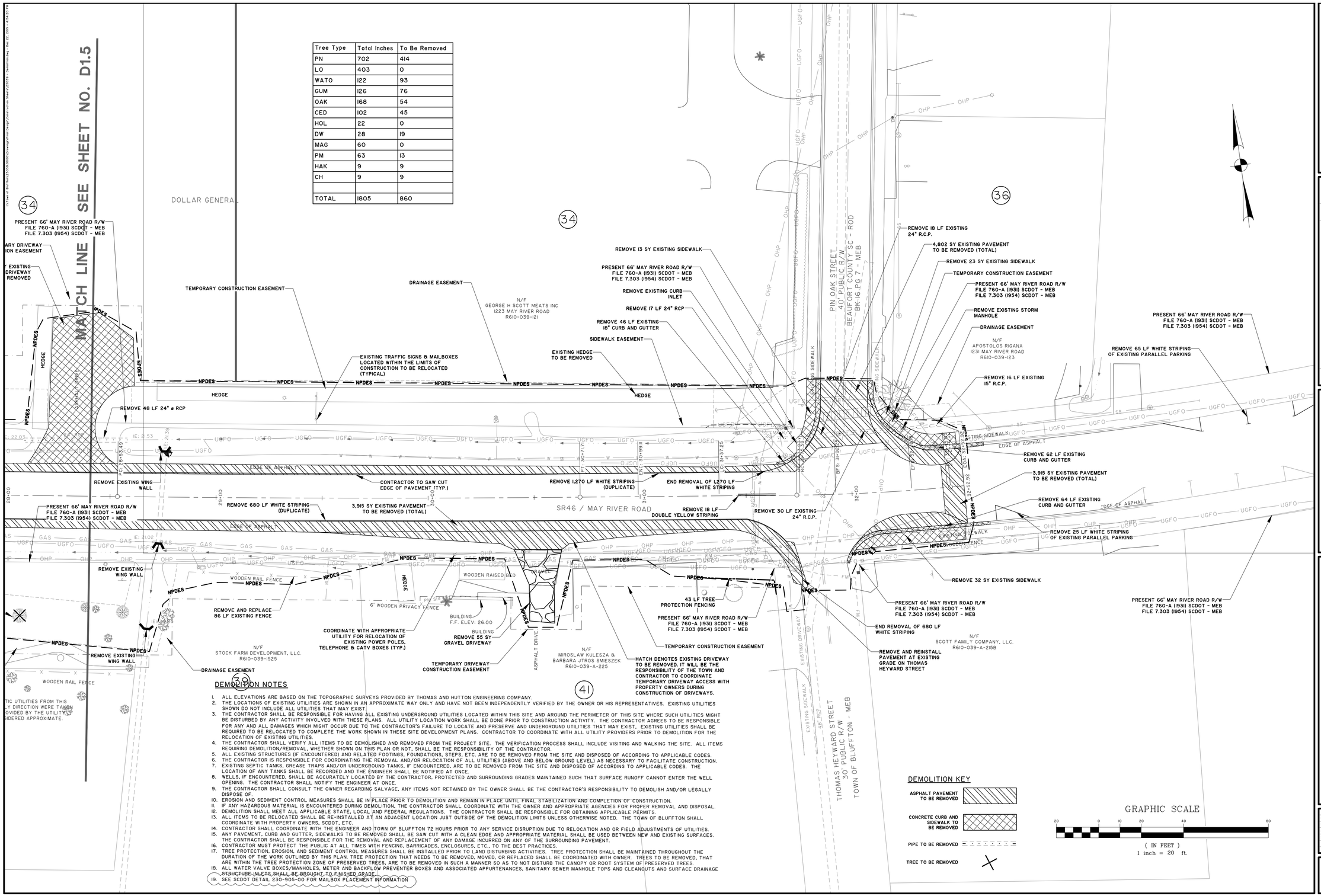

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17. TREE PROTECTION, EROSION, AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES. TREE PROTECTION SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE WORK OUTLINED BY THIS PLAN. TREE PROTECTION THAT NEEDS TO BE REMOVED, MOVED, OR REPLACED SHALL BE COORDINATED WITH OWNER. TREES TO BE REMOVED, THAT ARE WITHIN THE TREE PROTECTION ZONE OF PRESERVED TREES, ARE TO BE REMOVED IN SUCH A MANNER SO AS TO NOT DISTURB THE CANOPY OR ROOT SYSTEM OF PRESERVED TREES.
18. ALL WATER VALVE BOXES/MANHOLES, METER AND BACKFLOW PREVENTER BOXES AND ASSOCIATED APPURTENANCES, SANITARY SEWER MANHOLE TOPS AND CLEANOUTS AND SURFACE DRAINAGE STRUCTURE INLETS SHALL BE BROUGHT TO FINISHED GRADE.
19. SEE SCDOT DETAIL 230-905-00 FOR MAILBOX PLACEMENT INFORMATION

DEMOLITION KEY

- ASPHALT PAVEMENT TO BE REMOVED
- CONCRETE CURB AND SIDEWALK TO BE REMOVED
- PIPE TO BE REMOVED
- TREE TO BE REMOVED

SOUTH CAROLINA THOMAS & HUTTON ENGINEERING CO. No. C00285 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24757 RYAN M. SMITH

NO.	REVISIONS	BY	DATE
6	REVISED TREES TO BE REMOVED BASED ON GRADING	MCS	4-21-14
2	REVISED PER SCDOT COMMENTS	MCS	4-25-12

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BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

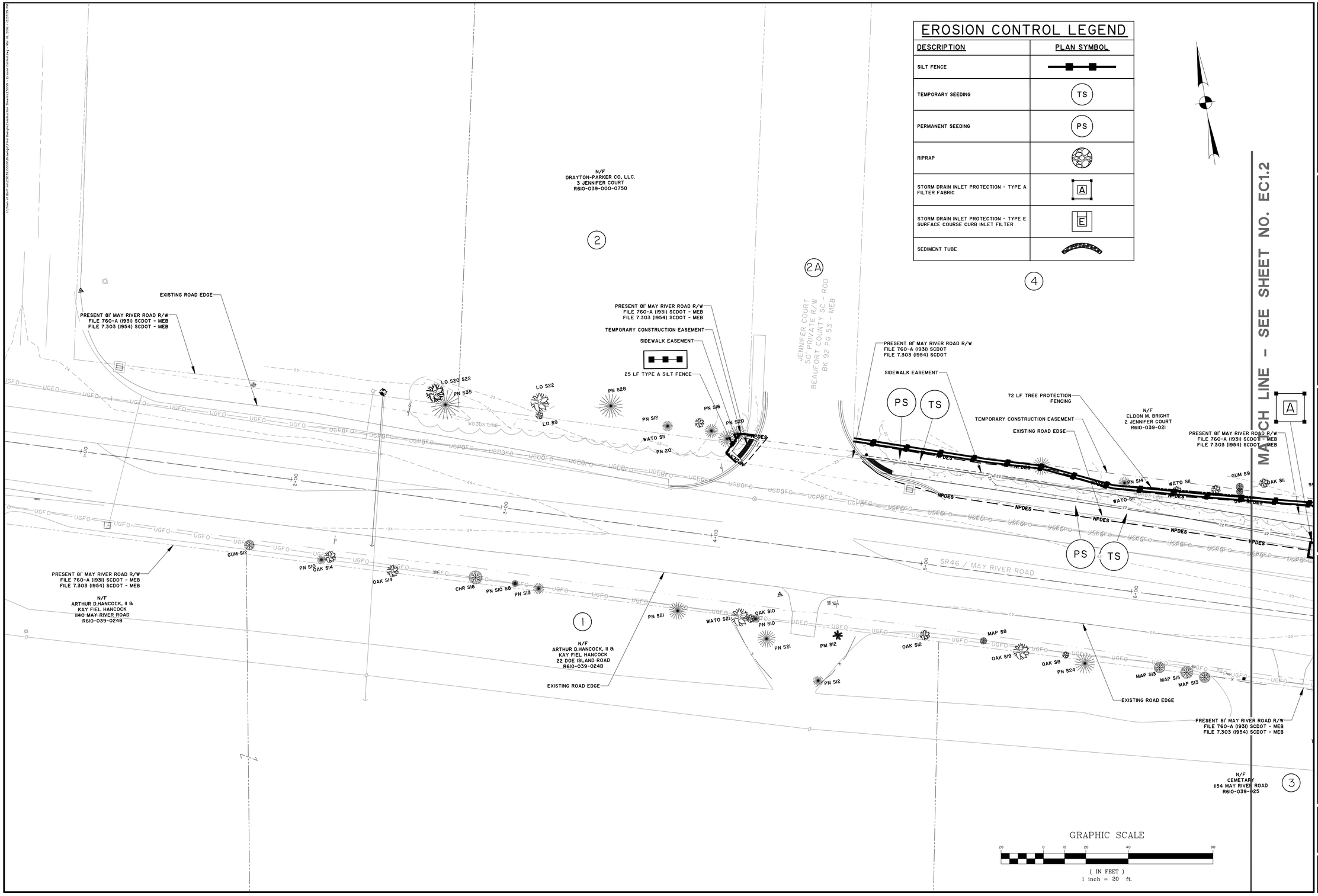
MAY RIVER ROAD IMPROVEMENTS PHASE II

DEMOLITION PLAN

JOB NO:	J-23039
DATE:	5/16/2011
DRAWN:	DMB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 20'

D1.6

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION



EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
SILT FENCE	
TEMPORARY SEEDING	TS
PERMANENT SEEDING	PS
RIPRAP	
STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC	A
STORM DRAIN INLET PROTECTION - TYPE E SURFACE COURSE CURB INLET FILTER	E
SEDIMENT TUBE	

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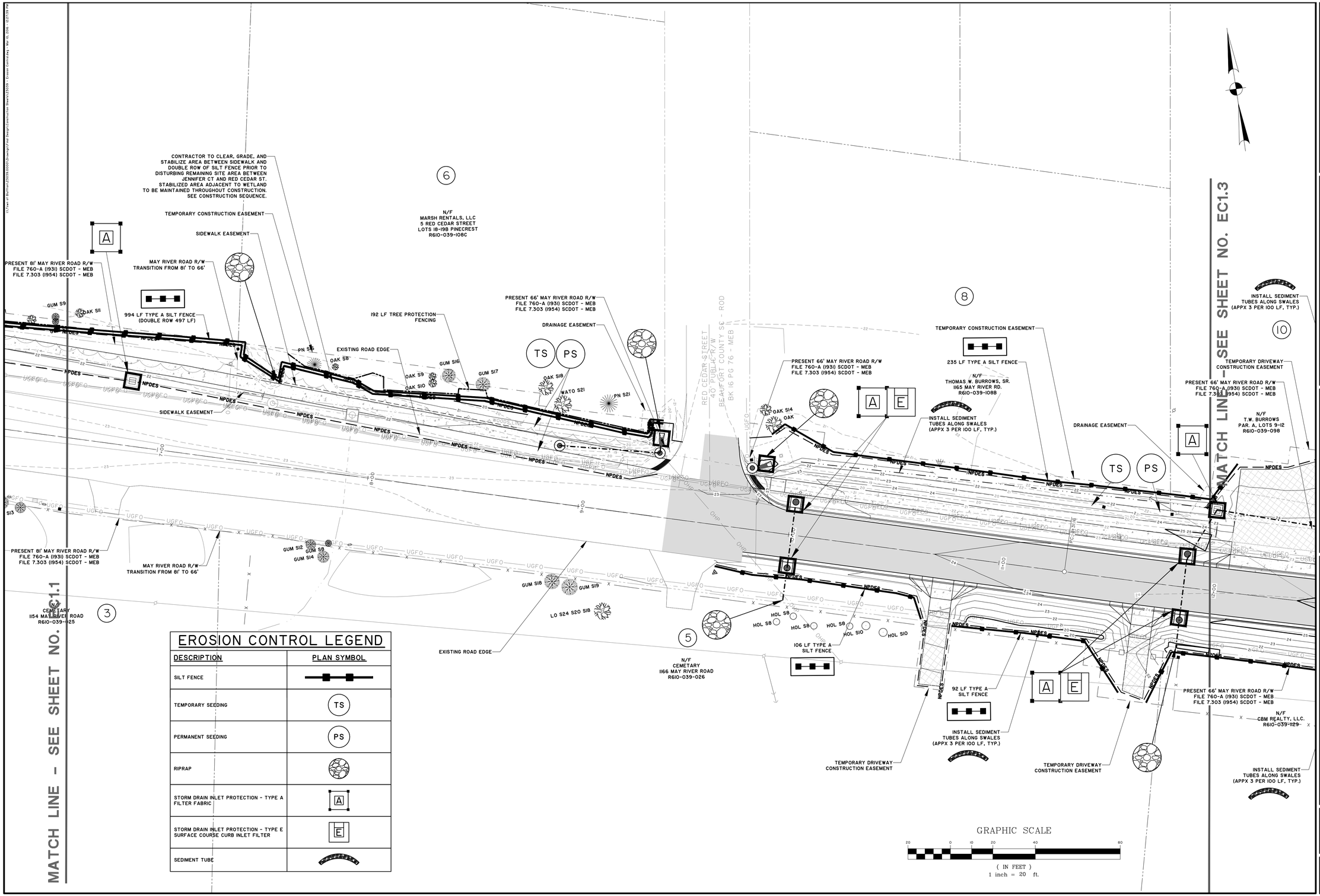

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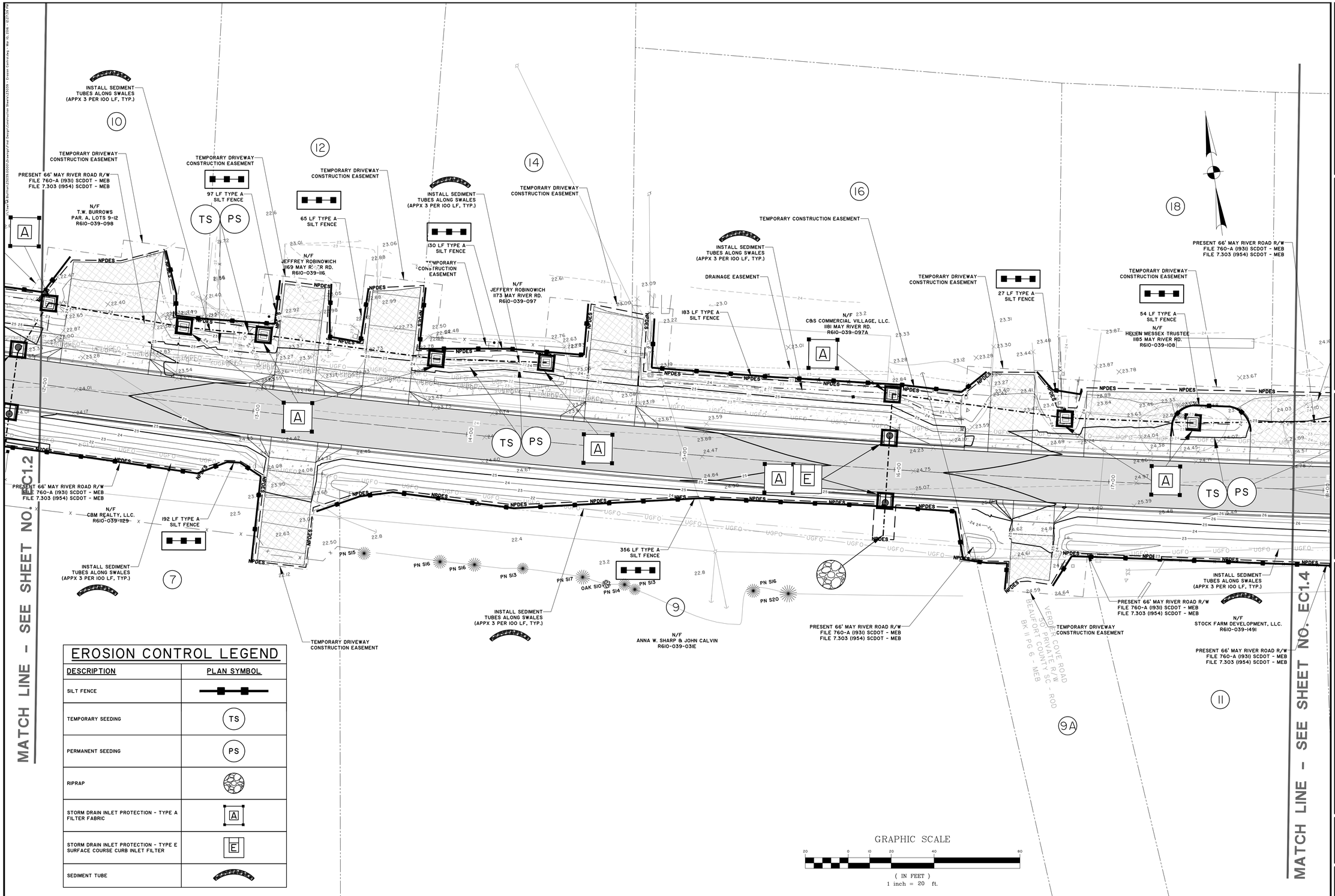

EROSION CONTROL LEGEND

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SEDIMENT TUBE	

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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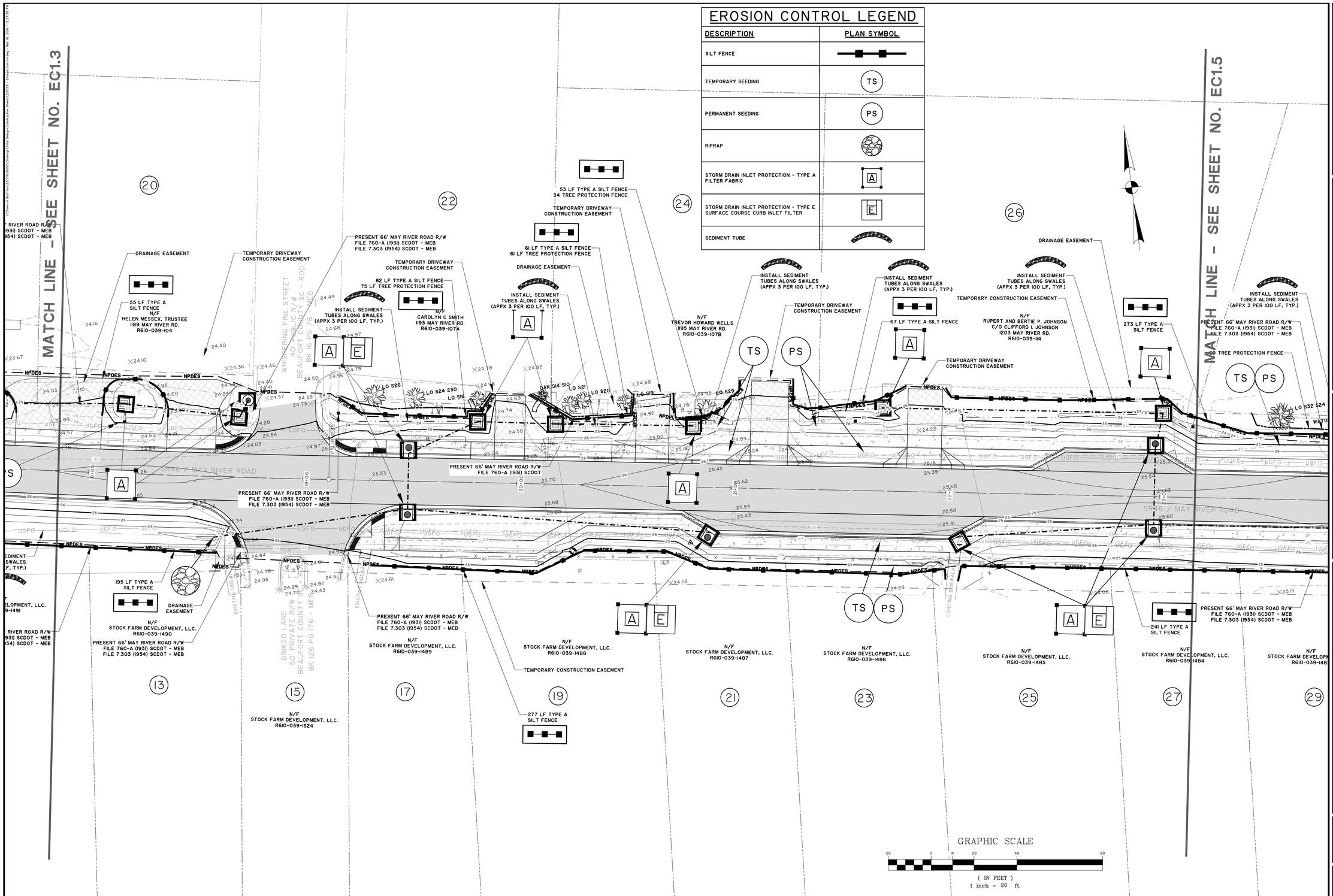

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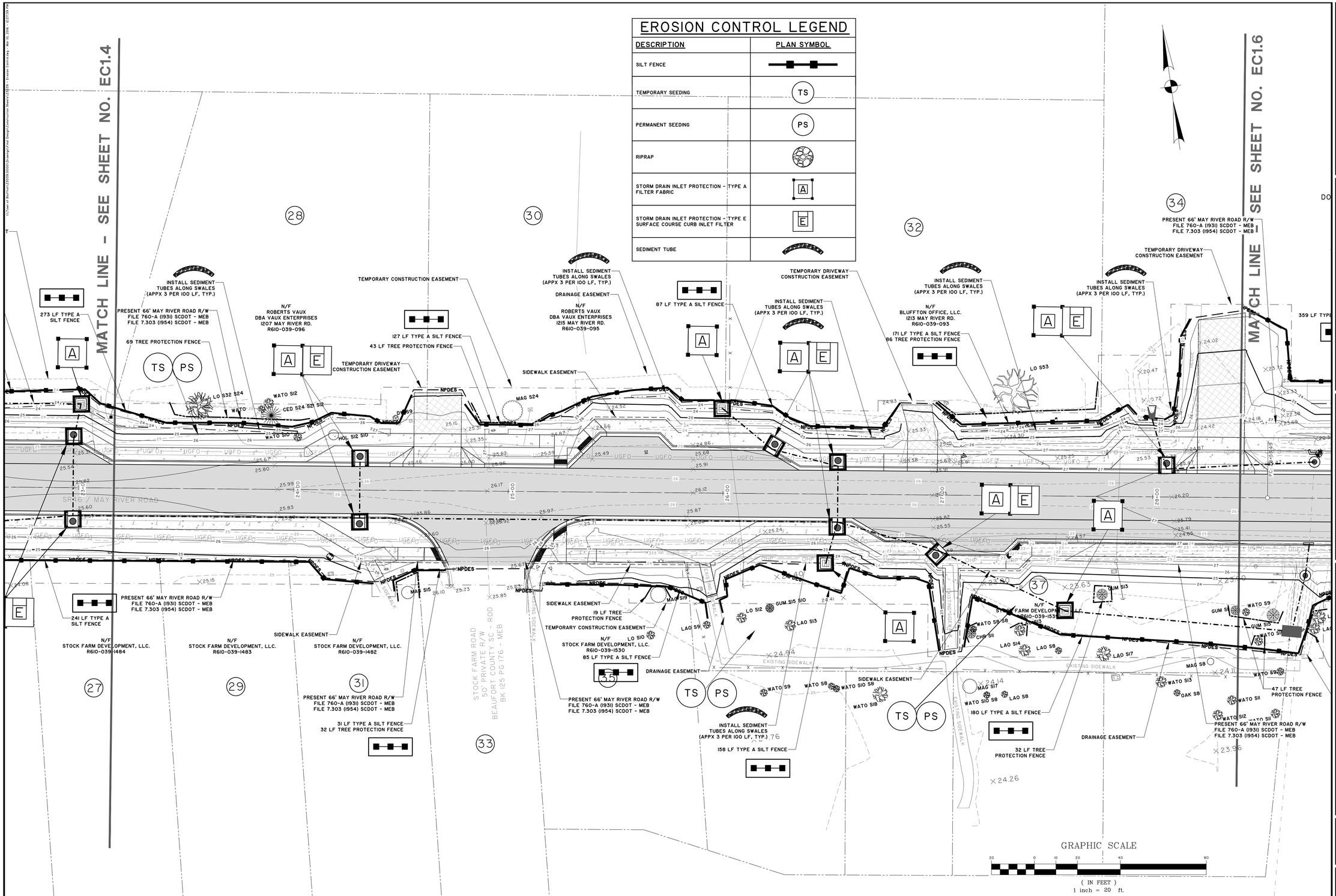

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
SILT FENCE	
TEMPORARY SEEDING	TS
PERMANENT SEEDING	PS
RIPRAP	
STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC	A
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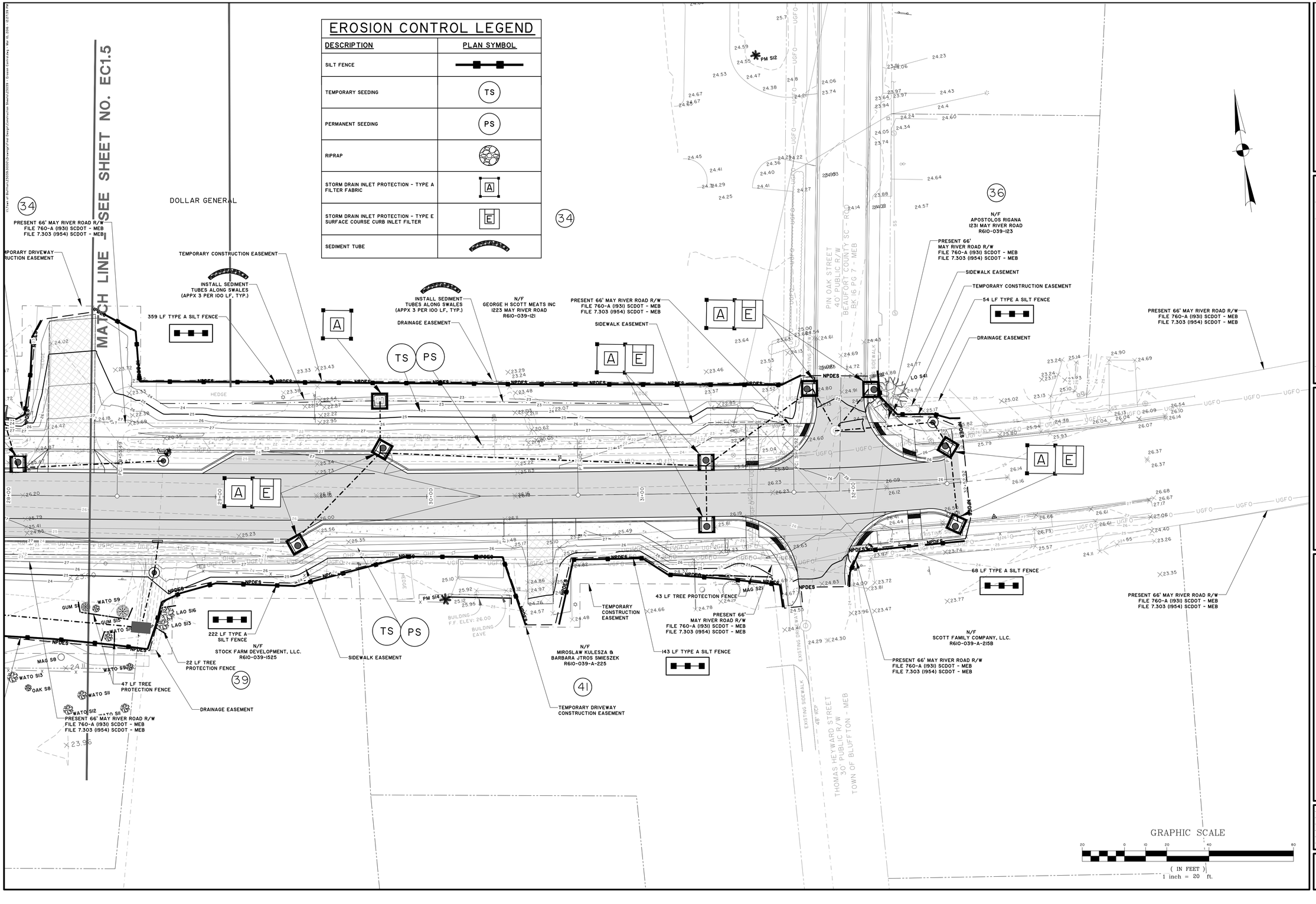

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STORMWATER POLLUTION PREVENTION PLAN

I. SITE DESCRIPTION

A. PROJECT DESCRIPTION

A.1.	PROJECT AREA	4.7 ACRES
A.2.	AREA DISTURBED	4.7 ACRES
A.3.	PERCENT IMPERVIOUS AREA BEFORE CONSTRUCTION	43%
A.4.	RUNOFF COEFFICIENT BEFORE CONSTRUCTION	89 CN
A.5.	PERCENT IMPERVIOUS AREA AFTER CONSTRUCTION	55 %
A.6.	RUNOFF COEFFICIENT AFTER CONSTRUCTION	89 CN

B. DESCRIPTION OF CONSTRUCTION ACTIVITY

WORK CONSISTS OF OVERLAY AND WIDENING OF EXISTING ROADWAY, WITH INSTALLATION OF CURB AND GUTTER, STORM SEWER SYSTEM, AND SIDEWALKS ASSOCIATED WITH DEVELOPMENT.

C. RUNOFF DATA

C.1.	SOIL CLASSIFICATIONS:	LEON, LYNN HAVEN, AND CHIPLEY
C.2.	LAND USE(S):	ROAD RIGHT-OF-WAY

D. RECEIVING WATERS

D.1.	CLOSEST RECEIVING WATERS:	TRIBUTARY TO MAY RIVER
D.2.	ULTIMATE RECEIVING WATERS:	ATLANTIC OCEAN

FLOOD

E.1.	FEMA FLOOD ZONE(S):	C
E.2.	FEMA FLOOD INSURANCE MAP(S):	450025 0085D

II. CONTROL MEASURES

1. EROSION AND SEDIMENT CONTROLS

PRIOR TO START OF CONSTRUCTION, ALL EXTERIOR SILT FENCE WILL BE INSTALLED AS SHOWN ON THE PLANS.

1.1. CLEARING

1.1.1. AREAS ADJACENT TO WETLANDS ARE TO BE CLEARED, GRADED, AND STABILIZED PRIOR TO DISTURBING THE REMAINING SITE AREA. SEE EROSION CONTROL DRAWINGS FOR SPECIFIC BUFFER ZONE TO BE MAINTAINED. STABILIZED BUFFER AREA SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

1.1.2. AS CLEARING IS COMPLETED, ADDITIONAL SILT FENCE WILL BE INSTALLED WHERE NECESSARY, SUCH AS POINTS WHERE FLOWS BECOME CHANNELIZED, AND OTHER POINTS WHERE EXCESSIVE RUNOFF VELOCITIES MAY OCCUR.

1.1.3. INSTALL CONSTRUCTION ENTRANCES / EXITS BEFORE BEGINNING CLEARING

1.1.4. CONSTRUCTION DELAYS IN ANY ONE AREA GREATER THAN 14 DAYS PRIOR TO START OF ROUGH GRADING WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.1.5. MAINTAIN EXISTING VEGETATION WHENEVER POSSIBLE AND MINIMIZE THE AREA OF DISTURBANCE. RETAIN AND PROTECT TREES TO ENHANCE FUTURE LANDSCAPING EFFORTS AND REDUCE RAINDROP IMPACT.

1.1.6. INSTALL ALL SEDIMENT CONTROL PRACTICES PRIOR TO ANY UP-SLOPE SOIL DISTURBING ACTIVITIES.

1.1.7. PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE THE AREAS DISTURBED AT ONE TIME. THIS WILL ALSO ALLOW COMPLETED AREAS TO BE STABILIZED AND RE-VEGETATED BEFORE DISTURBING ADJACENT SITES. THE NEED FOR TEMPORARY EROSION CONTROL MEASURES MAY BE AVOIDED BY COMPLETING A PHASE AND INSTALLING PERMANENT EROSION CONTROL MEASURES WHEN THE FINAL GRADE IS ATTAINED.

1.1.8. MAINTAIN AND PROTECT ALL NATURAL WATERWAYS. RETAIN AT LEAST A 35-FOOT UNDISTURBED BUFFER OF NATURAL VEGETATION ALONG ALL WATERWAYS TO FILTER OUT SEDIMENT AND OTHER POLLUTANTS. MAINTAIN A 45-FOOT UNDISTURBED BUFFER AROUND SENSITIVE WATERS.

1.1.9. INSTALL SILT FENCE (OR BIO ROLLS/ROCK SOCK PRODUCTS) ON THE DOWN-SLOPE PERIMETER OF ALL DISTURBED AREAS PRIOR TO ANY SOIL DISTURBING ACTIVITIES (INCLUDING CLEARING AND GRUBBING). SILT FENCE CAN TREAT A MAXIMUM OF 100 SQUARE FEET PER LINEAL FOOT OF FENCE. INSTALL SILT FENCE IN SHORTER REACHES ON THE CONTOUR WITH EACH END TURNED UP-SLOPE . SWALES AND SHORELAND AREAS SHOULD ALSO BE PROTECTED WITH SILT FENCE, BIO ROLLS, OR ROCK SOCKS.

1.1.10. IN AREAS OF CONCENTRATED FLOW INSTALL STRAW BALE CHECKS, ROCK CHECK DAMS, TRIANGULAR DIKES, BIO ROLL BLANKETS, OR ROCK SOCKS TO SLOW RUNOFF AND TRAP SEDIMENT.

1.1.11. USE TEMPORARY SLOPE DRAINS OR ROCK CHUTES TO MOVE WATER DOWN STEEP SLOPES.

1.1.12. CONSTRUCT SEDIMENT BASINS FOR DRAINAGE AREAS GREATER THAN 10 ACRES

1.2. ROUGH GRADING

1.2.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING ROUGH GRADING, DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.2.2. ALL AREAS NOT SUBJECT TO FURTHER CONSTRUCTION (DRAINAGE, SANITARY SEWER, ROADS, WATER DISTRIBUTION SYSTEMS, OR STORM WATER FACILITIES) SHALL BE GRASSED WITH A PERMANENT COVER.

1.2.3. COVER ANY STOCK PILED TOPSOIL WITH PLASTIC (OR OTHER IMPERVIOUS COVERING) OR USE A TEMPORARY SEED MIX. USE STOCKPILED TOPSOIL AS EARTHEN BERMS TO SERVE AS TEMPORARY SEDIMENT BASINS.

1.3. DRAINAGE

1.3.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING DRAINAGE INSTALLATION.

1.3.2. CONSTRUCTION DRAINAGE WILL BE ROUTED THROUGH LAKES, WHICH WILL ACT AS SEDIMENT BASINS OR OTHER ACCEPTABLE SEDIMENT BASINS/TRAPS.

1.3.3. STORM DRAIN INLET PROTECTION AS SHOWN ON DETAIL SHEET SHALL BE INSTALLED ON ALL CURB INLETS, STORM DRAIN MANHOLES, JUNCTION BOXES, AND GRATE INLETS.

1.3.4. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF THE NEXT CONSTRUCTION SEQUENCE WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.3.5. ALL STORM LINES NOT IN STREETS OR OTHER PAVED AREAS ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL.

1.4. WASTE DISTRIBUTION SYSTEM INSTALLATION

1.4.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING INSTALLATION OF THE WATER DISTRIBUTION SYSTEM.

1.4.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.5. WASTEWATER COLLECTION SYSTEM INSTALLATION

1.5.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING INSTALLATION OF THE WASTEWATER SYSTEM.

1.5.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.6. CONSTRUCTION OF ROADS

1.6.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING ROAD CONSTRUCTION.

1.6.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.7. GRASSING

1.7.1. ALL EXISTING CONTROLS WILL BE MAINTAINED UNTIL GRASSING IS ESTABLISHED

1.7.2. ANY AREAS THAT ERODE OR WHERE GRASS DOES NOT ESTABLISH ITSELF SHALL BE RE-GRADED AND RE-GRASSED.

2. STORM WATER MANAGEMENT

RUNOFF FROM THIS PROJECT WILL DISCHARGE INTO A STORM WATER MANAGEMENT SYSTEM. TREATMENT WILL OCCUR IN STORM WATER DETENTION PONDS.

3. OTHER CONTROLS

3.1. WASTE DISPOSAL

3.1.1. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO ANY RECEIVING WATERS.

3.1.2. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED.

3.1.3. THIS PLAN SHALL COMPLY WITH STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

3.1.4. DUST CONTROL ON DISTURBED AREAS - CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE AND HAUL ROUTES. THE PURPOSE OF THE MEASURE IS TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES, WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

III. MAINTENANCE

1. MAINTENANCE PROGRAM

1.1. THE SITE SUPERINTENDENT, OR HIS/HER REPRESENTATIVE, SHALL MAKE VISUAL INSPECTIONS OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREAS (I.E. SEEDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS; ESPECIALLY AFTER HEAVY RAINFALL EVENT TO INSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGED CONTROLS SHALL BE REPAIRED PRIOR TO THE END OF THE WORK DAY INCLUDING RE-SEEDING AND MULCHING OR RE-SODDING IF NECESSARY.

1.2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. ALL DRAINAGE SWALES, POCKETS, DEPRESSION, LOW LINES, AND OUTLET DITCHES SHALL DRAIN EFFECTIVELY AT ALL TIMES. SETTLEMENT OR WASHING THAT MAY OCCUR SHALL BE REPAIRED BY THE CONTRACTOR. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN AN EFFECTIVE BARRIER. MAINTAIN THE CONSTRUCTION EXIT IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TACKED ONTO PUBLIC ROADWAYS. RESEED AND MULCH AREA WHERE SEEDING EMERGENCE IS POOR, OR WHERE EROSION OCCURS. PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE. INSPECT ALL MULCHES PERIODICALLY , AND AFTER RAINSTORMS TO CHECK FOR EROSION, DISLOCATION OR FAILURE. IF WASHOUT OCCURS, REPAIR THE SLOPE GRADE, RESEED AND REINSTALL MULCH. FOLLOW THE CONSTRUCTION SEQUENCE THROUGHOUT THE PROJECT DEVELOPMENT. WHEN CHANGES IN CONSTRUCTION ACTIVITIES ARE NEEDED, AMEND THE SEQUENCE SCHEDULE IN ADVANCE TO MAINTAIN MANAGEMENT CONTROL. IF MAJOR CHANGES ARE NECESSARY, SEND A COPY OF THE MODIFIED SCHEDULE TO THE ENGINEER, SEDIMENT AND EROSION CONTROL MEASURES WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE DISTURBED AREAS ARE STABILIZED.

2. SILT FENCE

SILT FENCES WILL BE MONITORED DURING CONSTRUCTION. ANY SILT FENCE WHICH IS NOT FUNCTIONING PROPERLY WILL BE PROMPTLY REPAIRED. CLEAN OUT THE SILT FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE OR REPLACE WITH FUNCTIONAL SILT FENCE WITHIN 24 HOURS. USE OF HOSES AND WATER TO FLUSH THE SEDIMENT INTO THE STORM INLETS IS UNACCEPTABLE.

3. SEDIMENTATION BASINS

SEDIMENTATION BASINS WHICH ARE AT 50% USED CAPACITY OR APPROACHING SUCH CAPACITY SHALL BE RE-EXCAVATED TO ORIGINAL DIMENSIONS AND THE SILT PROPERLY DISPOSED OF.

4. SEDIMENT LOGS/ROLLS

SEDIMENT LOGS/ROLLS OR OTHER CONTROL MEASURES WHICH BEGIN TO DISINTEGRATE OR FUNCTION INEFFECTIVELY SHALL BE PROMPTLY REPLACED.

5. VEGETATION COVER

ANY VEGETATION COVER SERVING TO STABILIZE DISTURBED SOILS WHICH IS ITSELF DISTURBED SHALL IMMEDIATELY BE REPLACED.

6. CONSTRUCTION ENTRANCE

MAINTAIN ROCK CONSTRUCTION ENTRANCE AND CLEAN ADJACENT ROADS OF ANY MUD TRACKED ONTO THEM.

IV. INSPECTIONS

1. QUALIFIED PERSONNEL WILL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. WHERE SITES HAVE BEEN FINALLY STABILIZED SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH DURING THE WARRANTY PERIOD.

2. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

3. A WRITTEN REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES) AND WHETHER ANY DISCHARGES OCCURRED, LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE, LOCATION(S) OF BMP'S THAT NEED MAINTENANCE, LOCATION(S) OF BMP'S THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, LOCATION(S) WHERE ADDITIONAL BMP'S ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION AND ANY CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO SWPPP NECESSARY AND IMPLEMENTATION DATES.

4. THE REPORT SHALL BE MAINTAINED AT LEAST THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED. THE REPORT MUST BE SIGNED AND SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN AND THE NPDES PERMIT REFERENCED ABOVE. THE CONTRACTOR SHALL MAINTAIN THIS REPORT. THE REPORT SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.

V. LONG TERM MAINTENANCE OF DRAINAGE AND STORM WATER MANAGEMENT SYSTEM

THE ROADS AND DRAINAGE SYSTEM WILL BE OWNED AND MAINTAINED BY THE TOWN OF BLUFFTON AFTER CONSTRUCTION IS COMPLETE.

VI. SC DHEC STANDARD NOTES

1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO GRASSING / HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW:

2.1. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

2.2. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF SITE INSPECTIONS IDENTIFY BMP'S THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE BEFORE THE NEXT STORM EVENT WHENEVER PRACTICAL.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 AND SCR100000.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN NOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTION RECORDS AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION IN AREAS NOT UNDER PAVEMENTS AND /OR STRUCTURES AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUAL OR BETTER TREATMENT PRIOR TO DISCHARGE.

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES ARE PROHIBITED:

16.1. WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;

16.2. WASTEWATER FROM WASHOUT AND CLEANOUT OF OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;

16.3. FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND

16.4. SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF PERMIT SCR100000 AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE. THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

VII. EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES

1. THE IMPLEMENTATION OF THESE EROSION SEDIMENT CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

2. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

3. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.

4. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

5. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A MAJOR STORM EVENT.

6. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING AND PRIOR TO FINAL INSPECTION. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

7. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

8. BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY, THE EXISTING STORM WATER INLET(S) THAT RECEIVING RUNOFF FROM THE PROPOSED WORK AREA SHALL BE PROTECTED. THE TEMPORARY INLET PROTECTION MUST REMAIN IN PLACE UNTIL THE CONSTRUCTION ACTIVITY IS COMPLETED, THE STREET HAS BEEN SWEPT AND ANY EXPOSED SOILS ARE STABILIZED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REMOVING ANY TEMPORARY INLET PROTECTION INSTALLED; AFTER ALL DISTURBED AREAS ARE STABILIZED. TEMPORARY PROTECTION OF THE INLETS MAY BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING:

8.1. USE OF GRAVEL BAGS TO FILTER THE SEDIMENT FROM ANY RUNOFF. TO MAKE A GRAVEL BAG, USE A BAG MADE OF GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH EITHER 3/4 INCH ROCK OR 1/4 INCH PEA GRAVEL.

8.2. USE OF SEDIMENT LOGS TO FILTER THE SEDIMENT FROM ANY RUNOFF (AVAILABLE THROUGH LOCAL EROSION CONTROL SUPPLIERS).

8.3. USE OF ABOVE OR UNDER-GRATE FILTER BAGS OR DEVICES TO FILTER THE SEDIMENT FROM ANY RUNOFF (AVAILABLE THROUGH EROSION CONTROL SUPPLIERS).

9. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION, SEDIMENTATION, OR FLOODING ON THE SITE, ON DOWNSTREAM PROPERTIES, IN THE RECEIVING CHANNELS, OR IN ANY STORM WATER INLET. WHEN SITE DEWATERING, WATER PUMPED FROM THE SITE, INCLUDING TRENCHES, SHALL BE TREATED BY ONE OF THE FOLLOWING:

9.1. TEMPORARY SEDIMENTATION BASINS

9.2. SEDIMENT FILTERING BAGS

10. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITIES. EXISTING UTILITIES ARE ALL UTILITIES THAT EXIST ON THE PROJECT IN AN ORIGINAL, RELOCATED OR NEWLY INSTALLED POSITION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UNDERGROUND OR OVERHEAD FACILITIES, EVEN IF THE UTILITY IS NOT SHOWN ON THE SITE DEVELOPMENT PLANS. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITIES PROTECTION CENTER TO COORDINATE THE MARKING OF EXISTING UTILITY LINES A MINIMUM OF 96 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.

11. THE CONTRACTOR SHALL FLUSH ALL INLETS AND PIPE AT THE COMPLETION OF CONSTRUCTION TO REMOVE SILT AND DEBRIS. THE CLEANING AND FLUSHING OF INLETS AND PIPE (EXISTING AND PROPOSED) SHALL BE CONSIDERED PART OF THE COST FOR THE PROJECT.

12. EGRESS FROM THE SITE SHALL BE CONTROLLED SUCH THAT VEHICLES LEAVING THE SITE MUST TRAVERSE CONSTRUCTION EXITS TO REMOVE MUD FROM TIRES.

13. SCHEDULE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXPOSED AREA AND DURATION OF EXPOSURE. IN SCHEDULING, TAKE INTO ACCOUNT THE SEASON AND THE WEATHER FORECAST.

14. EROSION CONTROL MEASURES ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROL MEASURES AS DICTATED BY ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION IN ORDER TO PREVENT EROSION AND CONTROL SEDIMENT. EROSION AND SEDIMENT CONTROL MEASURES WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE ENTIRE PROJECT IS TERMINATED OR SUSPENDED FOR AND INDEFINITE LENGTH OF TIME, ALL DISTURBED AREAS SHALL BE PLANTED WITH PERMANENT VEGETATION.

15. THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, IS BASED UPON FIELD INVESTIGATIONS AND IS BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME IS SHOWN AS INFORMATION ONLY, IS NOT GUARANTEED AND DOES NOT BIND THOMAS & HUTTON, OR THE OWNER IN ANY WAY.

16. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.

17. SITE DRAINAGE SHALL BE ESTABLISHED TO PREVENT ANY PONDED WATER CONDITIONS WITHIN THE CONSTRUCTION AREA AND TO FACILITATE STORM WATER DISCHARGE.

18. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

19. LIME RATES AND ANALYSIS:

19.1. AGRICULTURAL LIME SHALL BE APPLIED AT THE R

STORMWATER POLLUTION PREVENTION PLAN

TEMPORARY SEEDING - COASTAL

SPECIES	LABS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	40												
RYE, GRAIN	56												
RYEGRASS	50												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET	40												
JAPANESE MILLET	40												
RYE, GRAIN	56												
OATS	75												
RYEGRASS	50												

PERMANENT SEEDING - COASTAL

SPECIES	LABS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	10												
BAHIAGRASS	40												
BROWNTOP MILLET	10												
BAHIAGRASS	30												
SERICEA LESPEDEZA	40												
BROWNTOP MILLET	10												
ATLANTIC COASTAL	15												
PANICGRASS	PLS												
BROWNTOP MILLET	10												
SWITCHGRASS	8												
(ALAMO)	PLS												
LITTLE BLUESTEM	4												
SERICEA LESPEDEZA	20												
BROWNTOP MILLET	10												
WEEPING LOVEGRASS	8												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET	10												
BAHIAGRASS	40												
RYE, GRAIN	10												
BAHIAGRASS	40												
CLOVER, CRIMSON (ANNUAL)	5												
BROWNTOP MILLET	10												
BAHIAGRASS	30												
SERICEA LESPEDEZA	40												
BROWNTOP MILLET	10												
BERMUDA, COMMON	10												
SERICEA LESPEDEZA	40												
BROWNTOP MILLET	10												
BERMUDA, COMMON	12												
KOBE LESPEDEZA (ANNUAL)	10												
BROWNTOP MILLET	10												
BAHIAGRASS	20												
BERMUDA, COMMON	6												
SERICEA LESPEDEZA	40												
BROWNTOP MILLET	10												
SWITCHGRASS	8												
LITTLE BLUESTEM	PLS												
INDIANGRASS	3												

NOTES:

ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED

1. CENTIPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THRU OCTOBER
2. IF GRASSING OCCURS DURING A MONTH REQUIRING TEMPORARY COVER, THE CONTRACTOR SHALL APPLY PERMANENT COVER (IN ADDITION TO THE TEMPORARY COVER) AT THE APPROPRIATE TIME AT NO ADDITIONAL COST. THE CONTRACTOR MUST ACHIEVE A STRAND OF PERMANENT GRASS WITH AT LEAST 95% COVER. BARE SPOTS CAN NOT BE MORE THAN 1 INCH SQUARE IN ANY 10 SF.

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
SILT FENCE	
CLEARING LIMITS	CL
DIVERSION DIKE	DD
DIVERSION BERM	DB
TEMPORARY DIVERSION	TD
PERMANENT DIVERSION	PD
SUBSURFACE DRAIN	SSD
VEGETATED CHANNEL	
RIP RAP LINED CHANNEL	
ECB OR TRM LINED CHANNEL	
PAVED CHANNEL	PC
TREE PROTECTION	
SURFACE ROUGHENING	OR LG
TOP SOILING	
TEMPORARY SEEDING	TS
PERMANENT SEEDING	PS
MULCHING	M

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
EROSION CONTROL BLANKET OR TURF REINFORCEDMENT MAT	
FLEXIBLE GROWTH MATRIX	FGM
BONDED FIBER MATRIX	BFM
SODDING	SO
SLOPED SODDING	
STAKED SOD	
STAKED SOD AROUND INLET	OR
RIPRAP	
OUTLET PROTECTION - RIP RAP	
OUTLET PROTECTION - ECB OR TRM	
DUST CONTROL	DC
POLYACRYLAMIDE (PAM)	PAM
SEDIMENT BASIN	
SEDIMENT BASIN WITH SKIMMER	
SEDIMENT TRAP	
ROCK SEDIMENT DIKE	
SEDIMENT TUBE	

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
ROCK CHECK DAM	OR
POROUS BAFFLES	
STABILIZED CONSTRUCTION ENTRANCE	
CONCRETE WASHOUT	
STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC	A
STORM DRAIN INLET PROTECTION - TYPE A SEDIMENT TUBE	A
STORM DRAIN INLET PROTECTION - TYPE B HARDWARE FABRIC AND STONE	B
STORM DRAIN INLET PROTECTION - TYPE C BLOCK AND GRAVEL	C
STORM DRAIN INLET PROTECTION - TYPE D RIGID INLET FILTER	D
STORM DRAIN INLET PROTECTION - TYPE E SURFACE COURSE CURB INLET FILTER	E
STORM DRAIN INLET PROTECTION - TYPE F INLET TUBE	F
STORM DRAIN INLET PROTECTION - TYPE G IMPERVIOUS AREA	G
PIPE SLOPE DRAINS	
TEMPORARY STREAM CROSSING	
LEVEL SPREADER	

LIST OF ACRONYMS FOR SEDIMENT AND EROSION CONTROL

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AMD	ACRYLAMIDE POLYMER
BFM	BONDED FIBER MATRIX
BMP(S)	BEST MANAGEMENT PRACTICE(S)
CFS	CUBIC FEET PER SECOND
CMP	CORRUGATED METAL PIPE
DHEC	DEPARTMENT OF HEATH AND ENVIRONMENTAL CONTROL
ECB	EROSION CONTROL BLANKET
EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
EPSC	EROSION PREVENTION AND SEDIMENTATION CONTROL
FDA	UNITED STATES FOOD AND DRUG AMINISTRATION
FGM	FLEXIBLE GROWTH MATRIX
HDPE	HIGH DENSITY POLYETHYLENE
MS4	MUNICIPAL SEPARATE STORM SEWER SYSTEM
MSDS	MATERIAL SAFETY DATA SHEETS
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
PAM	POLYACRYLAMIDE OR POLYMER
RCP	REINFORCED CONCRETE PIPE
SCS	SOIL CONSERVATION SERVICE
SWPPP	STORMWATER POLLUTION PREVENTION PROGRAM
TRM	TURF REINFORCEMENT MAT
VFS	VEGETATED FILTER STRIP

CONSTRUCTION SEQUENCE

	CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
1	OBTAIN COPIES OF ALL PLAN APPROVALS AND OTHER APPLICABLE PERMITS.	CONTRACTOR TO HAVE ONSITE AT ALL TIMES DURING CONSTRUCTION.
2	FLAG THE WORK LIMITS AND BARRICADE TREES AND MARK BUFFER AREAS FOR PROTECTION.	HAVE LOCAL REGULATORY AGENCY INSPECT TREE BARRICADES.
3	HOLD PRE CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION.	REVIEW TREE PROTECTION (BARRICADE) WITH OWNER AND LOCAL REGULATORY AGENCY. TAKE PICTURES OF ALL PROTECTED TREES AND LOCATIONS WHERE SITE WORK TIES INTO EXISTING TO DOCUMENT PREDEVELOPMENT PROCEDURES.
4	INSTALL CONSTRUCTION ACCESS AND LAY DOWN AREAS	STABILIZE BARE AREAS IMMEDIATELY AND INSTALL CONSTRUCTION EXITS / ENTRANCES.
5	CONSTRUCT SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SEDIMENT FENCES, AND OUTLET PROTECTION.	INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ACCESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.
6	ESTABLISH RUNOFF CONTROL - DIVERSIONS, PERIMETER DIKES, WATER BARS, AND OUTLET PROTECTION.	INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENT TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF-CONTROL MEASURES DURING GRADING.
7	BUFFER ZONE STABILIZATION - CLEAR, GRADE, AND STABILIZED SPECIFIED AREA ADJACENT TO SURFACE WATERS.	COMPLETE STABILIZATION OF AREA PREVIOUS TO DISTURBING REMAINING SITE.
8	LAND CLEARING AND GRADING-SITE PREPARATION CUTTING, FILLING AND GRADING, SEDIMENTATION TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING.	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL SEDIMENT AND KEY RUNOFF-CONTROL MEASURES ARE INSTALLED. CLEAR BORROW AND DISPOSAL AREAS ONLY AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. MARK TREES AND BUFFER AREAS FOR PRESERVATION.
9	RUNOFF CONVEYANCE SYSTEM- INSTALL STORM DRAINS, STABILIZE BANKS, CHANNELS, INSTALL INLET AND OUTLET PROTECTION, SLOPE DRAINS.	WHERE NECESSARY, STABILIZE BANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF- CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING.
10	INSTALL WASTEWATER COLLECTION, WATER DISTRIBUTION, AND STORM DRAINAGE SYSTEMS	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
11	SURFACE STABILIZATION-TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIP RAP.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
12	BUILDING CONSTRUCTION- BUILDINGS UTILITIES, ROADS, ETC.	INSTALL NECESSARY EROSION AND SEDIMENTATION CONTROL PRACTICES AS WORK TAKES PLACE.
13	LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIP RAP.	LAST CONSTRUCTION PHASE--STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AND STABILIZE ALL TEMPORARY CONTROL MEASURES.

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24757 RYAN M. SMITH

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION THOMAS & HUTTON ENGINEERING CO. No. COA2285

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE

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TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA

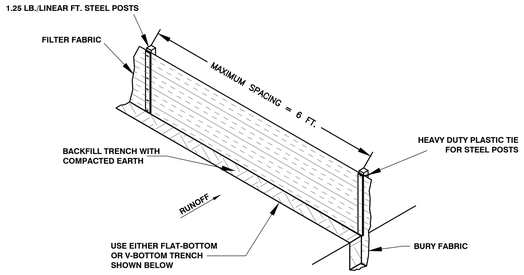
MAY RIVER ROAD IMPROVEMENTS PHASE II

EROSION CONTROL NOTES

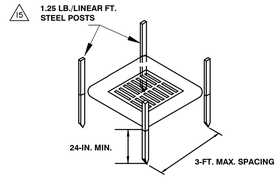
JOB NO:	J-23039
DATE:	5/16/2011
DRAWN:	DMB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	1" = 71.0477'

EC1.8

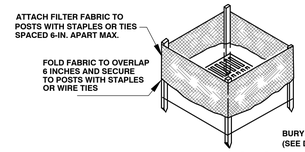
STORMWATER POLLUTION PREVENTION PLAN



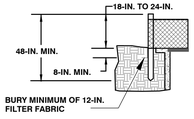
SILT FENCE INSTALLATION



POST INSTALLATION DETAIL



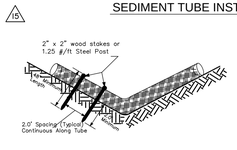
FILTER FABRIC INSTALLATION DETAIL



FILTER FABRIC BURIAL DETAIL

SEDIMENT TUBE INSTALLATION

15



PLAN SYMBOL

SEDIMENT TUBE SPACING

SLOPE	MAX. SEDIMENT TUBE SPACING
LESS THAN 2%	150-FEET
2%	100-FEET
3%	75-FEET
4%	50-FEET
5%	40-FEET
6%	30-FEET
GREATER THAN 6%	25-FEET

South Carolina Department of Health and Environmental Control

SEDIMENT TUBES

STANDARD DRAWING NO. SC-05 PAGE 1 of 2

NOT TO SCALE — FEBRUARY 2008 DATE

SEDIMENT TUBES - GENERAL NOTES

1. Sediment tubes may be installed along contours, in drainage ways, downslope from disturbed areas, or in areas subject to off-site discharge of sediment-laden stormwater runoff.
2. Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment tubes are not permitted.
3. The outer netting of the sediment tube should consist of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material.
4. Sediment tubes, when used as checks within channels, should range between 18-inches and 24-inches depending on channel dimensions. Diameters outside this range may be allowed where necessary when approved.
5. Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.
6. Sediment tubes should be staked using wooden stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48-inches in length placed on 2-foot centers.
7. Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufacturer's recommendations should always be consulted before installation.
8. The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint.
9. Sediment tubes should not be stacked on top of one another, unless recommended by manufacturer.
10. Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.
11. Sediment tubes should continue up the side slopes a minimum of 1-foot above the design flow depth of the channel.
12. Install stakes at a diagonal facing incoming runoff.

SEDIMENT TUBES - INSPECTION & MAINTENANCE

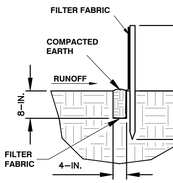
1. The key to functional sediment tubes is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of sediment tubes shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the sediment tube.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Large debris, trash, and leaves should be removed from in front of tubes when found.
7. If erosion causes the edges to fail to a height equal to or below the height of the sediment tube, repairs should be made immediately to prevent runoff from bypassing tube.
8. Sediment tubes should be removed after the contributing drainage area has been completely stabilized. Permanent vegetation should replace areas from which sediment tubes have been removed.

South Carolina Department of Health and Environmental Control

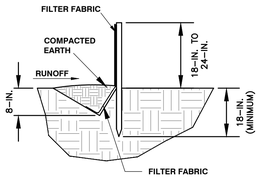
SEDIMENT TUBES

STANDARD DRAWING NO. SC-05 PAGE 2 of 2

GENERAL NOTES



FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL

WHEN AND WHERE TO USE IT:
SILT FENCE IS APPLICABLE IN AREAS:

WHERE THE MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE IS 100-FEET.
WHERE THE MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO FENCE LINE) IS 2H:1V.
THAT DO NOT RECEIVE CONCENTRATED FLOWS GREATER THAN 0.5 CFS.

DO NOT PLACE SILT FENCE ACROSS CHANNELS OR USE IT AS A VELOCITY CONTROL BMP.

MATERIALS:
STEEL POSTS
USE 48-INCH LONG STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:
COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI.
HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES.
WEIGH 1.25 POUNDS PER FOOT (± 8%).
HAVE A SOIL STABILIZATION PLATE WITH A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES ATTACHED TO THE STEEL POSTS.
PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.

USE STEEL POSTS WITH A MINIMUM LENGTH OF 4-FEET, WEIGHING 1.25 POUNDS PER LINEAR FOOT (± 8%) WITH PROJECTIONS TO AID IN FASTENING THE FABRIC. EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON SITE, STEEL POSTS WILL HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH, THE PLATE WILL BE BELOW THE GROUND LEVEL FOR ADDED STABILITY.
THE SOIL PLATES SHOULD HAVE THE FOLLOWING CHARACTERISTICS:
BE COMPOSED OF MINIMUM 15 GAUGE STEEL.
HAVE A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES.

GEOTEXTILE FILTER FABRIC:
FILTER FABRIC IS:
COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES.
FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER.
FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION.
FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES.
CUT TO A MINIMUM WIDTH OF 36 INCHES.

USE ONLY FABRIC APPEARING ON SCDOT APPROVAL SHEET #34 MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

INSTALLATION:
EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND. PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT. BURY 12-INCHES OF FABRIC INTO THE GROUND WHEN PNEUMATICALLY INSTALLING SILT FENCE WITH A SLICING METHOD. PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, WRAPPED THE FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 6-INCH MINIMUM OVERLAP. INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2- INCHES ABOVE THE FABRIC, WITH NO MORE THAN 3-FEET OF THE POST ABOVE THE GROUND. SPACE POSTS TO MAXIMUM 6-FEET CENTERS. ATTACH FABRIC TO WOOD POSTS USING STAPLES MADE OF HEAVY-DUTY WIRE AT LEAST 1-1/2-INCH LONG, SPACED A MAXIMUM OF 6-INCHES APART. STAPLE A 2-INCH WIDE LATHE OVER THE FILTER FABRIC TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF WOODEN POSTS. ATTACH FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN CALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES. INSTALL THE FABRIC A MINIMUM OF 24-INCHES ABOVE THE GROUND. WHEN NECESSARY, THE HEIGHT OF THE FENCE ABOVE GROUND MAY BE GREATER THAN 24-INCHES. IN TIDAL AREAS, EXTRA SILT FENCE HEIGHT MAY BE REQUIRED. THE POST HEIGHT WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING WILL REMAIN THE SAME AND EXTRA HEIGHT FABRIC WILL BE 4-, 5-, OR 6-FEET TALL. LOCATE SILT FENCE CHECKS EVERY 100 FEET MAXIMUM AND AT LOW POINTS. INSTALL THE FENCE PERPENDICULAR TO THE DIRECTION OF FLOW AND PLACE THE FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.

INSPECTION AND MAINTENANCE:
CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY. CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY. REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED. REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE. REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR

AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPS) ARE NO LONGER NEEDED. PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.

SILT FENCE - TYPE A

NOT TO SCALE

MATERIALS:
ONLY USE SURFACE COURSE INLET FILTERS THAT HAVE A MINIMUM HEIGHT OR DIAMETER OF 9-INCHES AND HAVE A MINIMUM LENGTH THAT IS 2-FEET LONGER THAN THE LENGTH OF THE CURB OPENING. SURFACE COURSE INLET FILTERS ARE NOT DESIGNED TO COMPLETELY BLOCK THE INLET OPENING.

SURFACE COURSE INLET FILTERS ARE CONSTRUCTED WITH A SYNTHETIC MATERIAL THAT WILL ALLOW STORM WATER TO FREELY FLOW THROUGH WHILE TRAPPING SEDIMENT AND DEBRIS. THE GEOTEXTILE IS NON-BIODEGRADABLE AND RESISTANT TO DEGRADATION BY ULTRAVIOLET EXPOSURE AND RESISTANT TO CONTAMINANTS COMMONLY ENCOUNTERED IN STORM WATER. STRAW, STRAW FIBER, STRAW BALES, PINE NEEDLES AND LEAF MULCH ARE NOT PERMISSIBLE FILTER MATERIALS.

SURFACE COURSE INLET FILTERS HAVE AGGREGATE COMPARTMENTS FOR STONE, SAND OR OTHER WEIGHTED MATERIALS OR MECHANISMS TO HOLD THE UNIT IN PLACE.

USE FILTER FABRIC THAT IS CAPABLE OF REDUCING EFFLUENT SEDIMENT CONCENTRATIONS BY NO LESS THAN 80% UNDER TYPICAL SEDIMENT MIGRATION CONDITIONS.

APPLICABLE TYPE E INLET FILTERS MAY BE SELECTED FROM THE SCDOT APPROVED PRODUCTS LIST.

INSTALLATION:
SURFACE COURSE INLET FILTERS ARE APPLICABLE FOR ROAD CATCH BASIN AFTER THE ROAD SURFACE COURSE IS PLACED. PLACE SURFACE COURSE INLET FILTERS WHERE SEDIMENT MAY SPILL OVER SIDEWALKS AND CURBS.

INSTALL SURFACE COURSE INLET FILTERS IN FRONT OF CURB INLET OPENINGS. THE FILTER SHALL HAVE A MINIMUM HEIGHT OR DIAMETER OF 9-INCHES AND HAVE A MINIMUM LENGTH THAT IS 2-FEET LONGER THAN THE LENGTH OF THE CURB OPENING. THIS WILL ALLOW SUFFICIENT LENGTH TO COVER THE INLET WITH AT LEAST 1-FOOT OF CLEARANCE BEYOND THE INLET ON BOTH ENDS.

DO NOT COMPLETELY BLOCK THE INLET OPENING WITH SURFACE COURSE INLET FILTERS. INSTALL SURFACE COURSE INLET FILTERS IN A MANNER TO ALLOW OVERFLOWS TO ENTER THE CATCH BASIN.

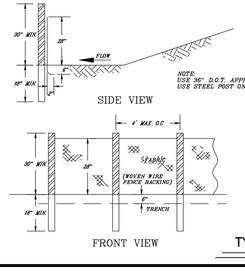
FILL THE AGGREGATE COMPARTMENT TO A LEVEL (AT LEAST 1/2 FULL) THAT WILL KEEP THE SURFACE COURSE INLET FILTER IN PLACE AND CREATE A SEAL BETWEEN THE SURFACE COURSE INLET FILTER AND THE ROAD SURFACE.

INSPECTION AND MAINTENANCE:
PONDING IS LIKELY IF SEDIMENT IS NOT REMOVED REGULARLY, THEREFORE ROUTINE MAINTENANCE MUST BE PROVIDED.
INSPECT SURFACE COURSE CURB INLET FILTERS ON A REGULAR BASIS AND IMMEDIATELY AFTER MAJOR RAIN EVENTS.
CLEAN THE SURFACE COURSE CURB INLET FILTER IF A VISUAL INSPECTION SHOWS SILT AND DEBRIS BUILD UP AROUND THE FILTER.

E

SURFACE COURSE CURB INLET FILTERS (TYPE E)

NOT TO SCALE



NOTE:
USE 36" O.S.T. APPROVED FABRIC
USE STEEL POST ONLY.

TYPE C SILT FENCE (36")

USE: 1. WHERE RUNOFF FLOWS OR VELOCITIES ARE PARTICULARLY HIGH OR WHERE SLOPES EXCEED A VERTICAL HEIGHT OF 10 FEET. 2. WHERE THE SLOPE GRADIENT IS STEEPER THAN 3:1.

MIN. LENGTH	TYPE OF POST	SIZE OF POST	POST SPACING
	A	STEEL	1.3 LB/FT. MIN

NOTE: FILTER FABRIC MAY ALSO BE ATTACHED TO THE POST BY WIRE, CORD, AND POCKETS.

FENCE

TENSILE STRENGTH (LBS. MIN.) (ASTM D-4632)	ELONGATION (%MAX.) (ASTM D-4632)	AOS (APPARENT OPENING SIZE) (MAX. SIEVE SIZE) (ASTM D-4751)	FLOW RATE (GAL/MIN/SQ. FT.) (GDT-87)	ULTRAVIOLET STABILITY (%) (ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM-G-26)	BURSTING STRENGTH (PSI MIN.) (ASTM D-3786 DIAPHRAGM BURSTING STRENGTH TESTER)	MIN. FABRIC WIDTH (INCHES)
WARP-250 FILL-180	40	#30	70	80	175	36

50 MIN. ROLL AVERAGE OF FIVE SPECIMENS. (2) PERCENT OF REQUIRED INITIAL MIN. TENSILE STRENGTH.

NOTE:
SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED [APPROXIMATELY SIX MONTHS]. TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

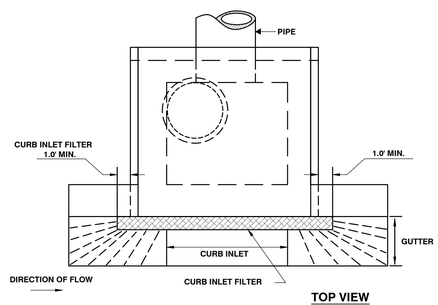
SILT FENCE TYPE C – REINFORCED

NOT TO SCALE

FILTER FABRIC INLET PROTECTION (TYPE A)

A

NOT TO SCALE



TOP VIEW

MATERIALS:
USE FILTER FABRIC THAT CONFORMS TO SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

USE STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:
BE COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI.
HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES.
WEIGH 1.25 POUNDS PER FOOT (± 8%).
BE PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.

INSTALLATION:
EXCAVATE A TRENCH 6-INCHES WIDE AND 6-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE INLET UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

EXTEND THE FILTER FABRIC A MINIMUM OF 12-INCHES INTO THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR CRUSHED STONE AND COMPACT OVER THE FILTER FABRIC UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 60-INCHES CONSISTING OF STANDARD "T" SECTIONS WITH A WEIGHT OF 1.25 POUNDS PER FOOT (±8%). INSTALL THE FILTER FABRIC TO A MINIMUM HEIGHT OF 24-INCHES ABOVE GRADE. SPACE THE STEEL POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3-FEET APART AND DRIVE THEM INTO THE GROUND A MINIMUM OF 24-INCHES. CUT THE FILTER FABRIC FROM A CONTINUOUS ROLL TO THE LENGTH OF THE PROTECTED AREA TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, WRAP FILTER FABRIC TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST, WITH A MINIMUM 6-INCH OVERLAP.

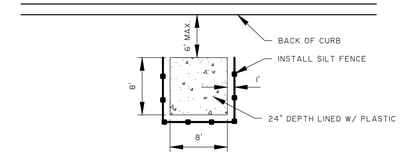
ATTACH FABRIC TO STEEL POSTS WITH HEAVY-DUTY PLASTIC TIES.

ATTACH AT LEAST FOUR (4) EVENLY SPACED TIES IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, AFFIX TIES IN NO LESS THAN FOUR (4) PLACES.

INSPECTION AND MAINTENANCE:

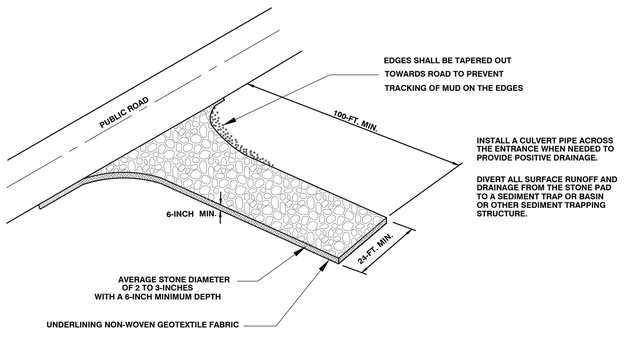
SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE. TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT. IF A SUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREA, ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM.

STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.



CONCRETE WASHOUT DETAIL

NOT TO SCALE



WHEN AND WHERE TO USE IT:
STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD.

IMPORTANT CONSIDERATIONS:
IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFFSITE. WASHDOWN FACILITIES SHALL BE REQUIRED AS DIRECTED BY SCDHEC AS NEEDED. WASHDOWN AREAS IN GENERAL MUST BE ESTABLISHED WITH CRUSHED GRAVEL AND DRAIN INTO A SEDIMENT TRAP OR SEDIMENT BASIN.

CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY VEHICLES.

INSTALLATION:
REMOVE ALL VEGETATION AND ANY OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.

DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM STONES TO A SEDIMENT TRAP OR BASIN.

INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE.

INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.

THE ENTRANCE SHALL CONSIST OF 1-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES.

MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24-FEET WIDE BY 100-FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.

THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING OF MUD AT THE EDGE OF THE ENTRANCE.

INSPECTION AND MAINTENANCE:
CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS. RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.

WASH OR REPLACE STONES AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES.

FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE.

IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.

REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — THOMAS & HUTTON ENGINEERING CO. — No. C00285

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — No. 24757 — RYAN M. SMITH

NO.	REVISIONS	BY	DATE
15	REVISED PER OCRM COMMENTS	MEB	7-25-16

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TOWN OF BLUFFTON
BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA
MAY RIVER ROAD IMPROVEMENTS PHASE II
EROSION CONTROL DETAILS

JOB NO:	J-23039
DATE:	5/16/2011
DRAWN:	DMB
DESIGNED:	RMS
REVIEWED:	RMS
APPROVED:	RMS
SCALE:	(" = 10')

EC1.9

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