SHEET NO.	TOTAL SHEETS
1	16

INDEX OF SHEETS

SHEET NO	DESCRIPTION	SHEET SUB-TOTALS
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2	SUMMARY OF ESTIMATED QUANTITIES	1
3	TYPICAL SECTIONS	1
4	PROPERTY STRIP MAPS	1
5	GENERAL CONSTRUCTION NOTES	1
5A	REFERENCE DATA SHEET	1
6–9	PLAN AND PROFILE SHEETS	4
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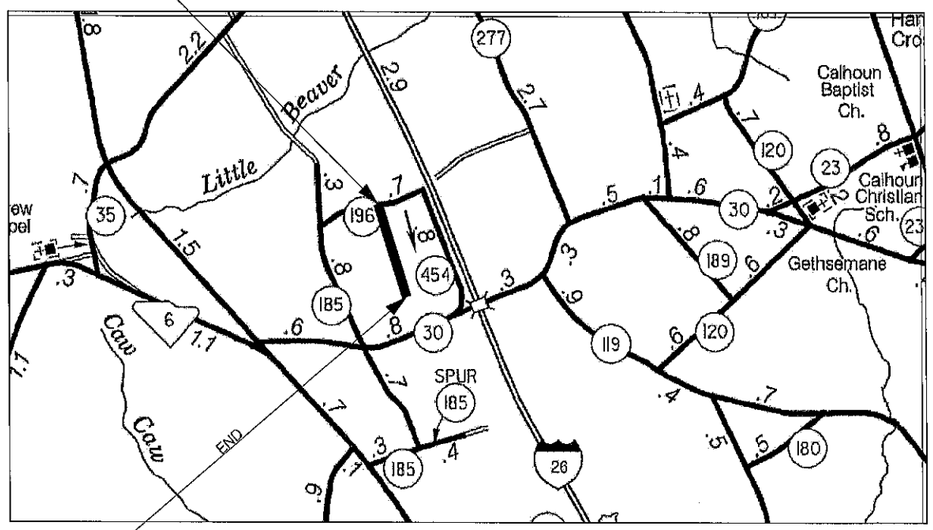
EC1	EROSION CONTROL DETAIL SHEET	1
X1–X3	CROSS SECTIONS	3
	TOTAL	16

PROPOSED PLANS FOR CALHOUN COUNTY CTC DIRT ROAD PAVING 2017 HOWELL LANE

HOWELL LANE
BEGIN STA. 10+13.79
SEE SHEETS 6–8



HOWELL LANE
END STA. 26+25.35
SEE SHEETS 6–8

LAYOUT
NOT TO SCALE

CALHOUN COUNTY

APPROVED FOR CONSTRUCTION:

CALHOUN COUNTY ADMINISTRATOR _____ Date _____

NPDES PERMIT INFORMATION

DISTURBED AREA = 0.80 ACRES

PERMITTED AREA = 2.80 ACRES

APPROXIMATE LOCATION OF ROADWAY IS

BEGIN
LATITUDE 33° 42' 31.33" N
LONGITUDE 80° 55' 31.41" W

END
LATITUDE 33° 42' 17.04" N
LONGITUDE 80° 55' 23.60" W

Hydraulic and NPDES Design provided by:
INFRASTRUCTURE CONSULTING & ENGINEERING
Designs may be obtained from Calhoun County

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA

CALL 811

SOUTH CAROLINA 811 (SC811)
WWW.SC811.COM
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

RAILROAD INVOLVEMENT?
YES (NO)

NET LENGTH OF ROADWAY	0.305	MILES
NET LENGTH OF SIDEWALK	–	MILES
NET LENGTH OF PROJECT	0.305	MILES
LENGTH OF EXCEPTIONS	–	MILES
GROSS LENGTH OF PROJECT	0.305	MILES

EQUALITIES IN STATIONING
NONE

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

CONSULTING ENGINEERING FIRM

INFRASTRUCTURE CONSULTING & ENGINEERING
CONSULTING ENGINEERS
1021 BRIARGATE CIRCLE
COLUMBIA, SOUTH CAROLINA 29210

ENGINEER OF RECORD

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 28136 AARON O. LIVINGSTON

SOUTH CAROLINA INFRASTRUCTURE CONSULTING & ENGINEERING, PLLC No. 4470 CERTIFICATE OF AUTHORIZATION

FOR CONSTRUCTION: _____ DATE _____

Z:\Projects\17-20.04 Goldenrod\Roadway\Howell\Plan Sheets\SHT01_TITLE_SHEET .dgn
9/19/2018

FED. RD. DIV. NO.	STATE	COUNTY	ROAD ROUTE NO.	PROJECT ID NO.	SHEET NO.
3	S.C.	CALHOUN	HOWELL LANE		2

SUMMARY OF ESTIMATED QUANTITIES

HOWELL LANE ROADWAY QUANTITIES

SECTION	ITEM	QUANTITY	UNIT
1031000	MOBILIZATION	NEC	LS
1050800	CONSTRUCTION STAKES, LINES & GRADES	1	EA
1071000	TRAFFIC CONTROL	NEC	LS
2023000	REMOVAL & DISPOSAL OF EXISTING PAVEMENT	48	SY
2031000	UNCLASSIFIED EXCAVATION	383	CY
2033000	BORROW EXCAVATION	474	CY
2081001	FINE GRADING	5,620	SY
3050106	GRADED AGGREGATE BASE COURSE (6" UNIFORM)	5,500	SY
4010005	PRIME COAT	1,486	GAL
4011004	LIQUID ASPHALT BINDER PG64-22	28	TON
4030350	HOT MIX ASPHALT SURFACE COURSE TYPE C	469	TON
6020005	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	48	SF
6051100	PERMANENT YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4" PERM. YEL.	3	EA
6241025	24" WHITE SOLID LINES (STOP/DIAG LINES)-PERM.PVMT.MARKING	20	LF
6271074	4" YELLOW SOLID LINES(PVT.EDGE LINES) THERMO-90 MIL.	200	LF
6510105	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN	17.5	SF
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	28	LF

HOWELL LANE ROADWAY QUANTITIES

SECTION	ITEM	QUANTITY	UNIT
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	28	LF
7143618	18" SMOOTH WALL PIPE	272	LF
7143624	24" SMOOTH WALL PIPE	192	LF
7143630	30" SMOOTH WALL PIPE	36	LF
7191205	CATCH BASIN -TYPE 9	6	EA
7192105	MANHOLE	1	EA
8041020	RIP-RAP (CLASS B)	52	TON
8048205	GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP(CLASS 2)TYPE B	62	SY
8100100	PERMANENT COVER	0.438	ACRE
8100200	TEMPORARY COVER	0.219	ACRE
8151101	TURF REINFORCEMENT MATTING (TRM) TYPE 1	0.7	MSY
8152004	INLET STRUCTURE FILTER - TYPE F (WEIGHTED)	80	LF
8152006	INLET STRUCTURE FILTER- TYPE F (NON-WEIGHTED)	80	LF
8152007	SEDIMENT TUBES FOR DITCH CHECKS	320	LF
8153000	SILT FENCE	550	LF

INFRASTRUCTURE CONSULTING & ENGINEERING
CONSULTING ENGINEERS
1021 BRIARGATE CIRCLE
COLUMBIA, SOUTH CAROLINA 29210

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 26136 BRENDON D. LIVINGSTON

SOUTH CAROLINA INFRASTRUCTURE CONSULTING & ENGINEERING, PLLC No. 4410 CERTIFICATE OF AUTHORIZATION

REV NO.	BY	DATE	DESCRIPTION OF REVISION
7			
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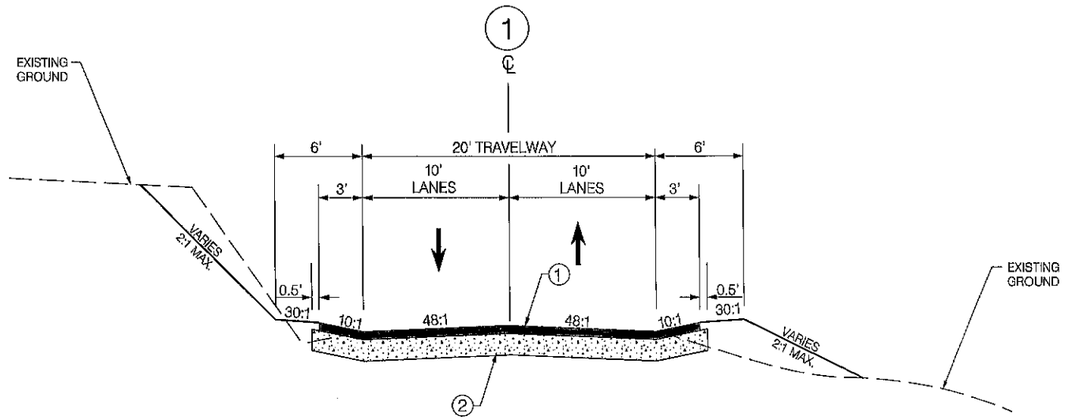
CALHOUN COUNTY

HOWELL LANE

SUMMARY OF ESTIMATED QUANTITIES

$$user$$
7-20.04 Goldenrod\Roadway\Howell\Plan Sheets\SHT_02.dgn
9/19/2018

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		HOWELL LANE	3



USE THIS SECTION ON
HOWELL LANE STATION 10+13.79 TO STATION 26+25.35

LEGEND

① HOT MIX ASPHALT SURFACE COURSE TYPE C (175 PSY)

② GRADED AGGREGATE BASE COURSE (6" UNIFORM)

MPH	FROM STA.	TO STA
25	10+13.79	26+25.35
EXCEPTIONS TO DESIGN SPEED		

INFRASTRUCTURE CONSULTING & ENGINEERING
CONSULTING ENGINEERS
1021 BRIARGATE CIRCLE
COLUMBIA, SOUTH CAROLINA 29210

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 26136 AARON O. LIVINGSTON

SOUTH CAROLINA INFRASTRUCTURE CONSULTING & ENGINEERING, PLLC No. 4470 CERTIFICATE OF AUTHORIZATION

SCALE: 1" = NTS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
7			
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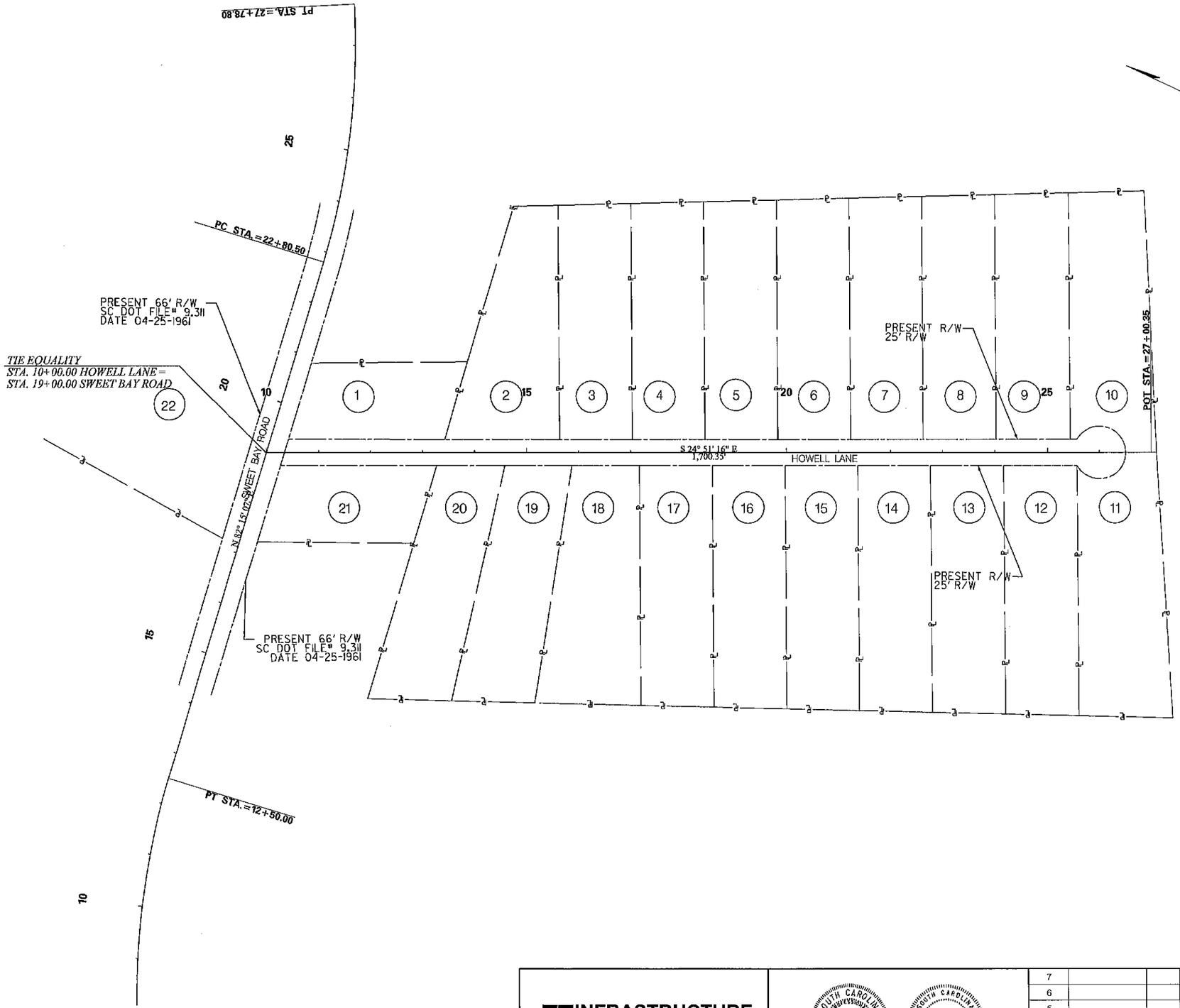
CALHOUN COUNTY CTC

HOWELL LANE

TYPICAL SECTIONS

Z:\Projects\17-20.04 Goldenrod\Roadway\Howell\Plan Sheets\SHT_03.dgn
9/19/2018

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		HOWELL LANE	4



PARCEL NO.	TMS NO.	CURRENT OWNER
1	064-00-02-043	HAGGOOD ANDREW ETAL.
2	064-00-02-052	DOOLEY ROBERT S
3	064-00-02-072	RICKARD THELMA TALLINE & HENRY C/O VANDERBILT MORTGAGE
4	064-00-02-061	DUNNING JOHNATHAN
5	064-00-02-060	DUNNING JOMARCO A
6	064-00-02-059	RANDOLPH SHAMIKA ETAL. C/O HYDRICK THOMAS
7	064-00-02-058	WIGFALL JEROME & MARGARET
8	064-00-02-057	VEER KATHY
9	064-00-02-056	VEER KATHRYN A
10	064-00-02-055	LYKES JASPER B & ROSEMARY MURPH
11	064-00-02-054	LYKES JASPER B
12	064-00-02-053	REED HOLDINGS LLC
13	064-00-02-052	HANES HERCULES JR
14	064-00-02-051	RASMUSSEN BRADLEY G
15	064-00-02-050	MURPH SHARONDA
16	064-00-02-049	GREEN LINDA W
17	064-00-02-048	WHATLEY DOTTIE A
18	064-00-02-066	GLOVER DENEINE M C/O MIDDLETON JAMES
19	064-00-02-069	LYKES JASPER B& DAKARIE JEFFERSON LYKES
20	064-00-02-046	THOMPSON SHARON
21	064-00-02-042	GLOVER DENEINE & PRESTON GREEN
22	064-00-02-035	LANE MARILYN B & MARILYN B TRUSTEE FOR CONRADE A DEMPSEY

INFRASTRUCTURE CONSULTING & ENGINEERING
CONSULTING ENGINEERS
1021 DIMARGATE CIRCLE
COLUMBIA, SOUTH CAROLINA 29210

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 26136 AARON O. LIVINGSTON

SOUTH CAROLINA INFRASTRUCTURE CONSULTING & ENGINEERING, PLLC No. 4416 CERTIFICATE OF AUTHORIZATION

SCALE: 1" = 100'

REV. NO	BY	DATE	DESCRIPTION OF REVISION
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CALHOUN COUNTY CTC

HOWELL LANE

PROPERTY STRIP MAP

Z:\Projects\17-20.04 Goldenrod\Roadway\Howell\Plan Sheets\SHT_04.dgn
9/19/2018

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		HOWELL LANE	6

GENERAL NOTES

1. ALL WORK ON THIS PROJECT SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS, THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION), AND THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS. ALL REFERENCES TO THE SPECIFICATIONS ON THE PLANS SHALL REFER TO THE SPECIAL PROVISIONS, UNLESS OTHERWISE NOTED.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE LATEST SET OF THESE PLANS AND SPECIAL PROVISIONS AND ANY REFERENCED SCDOT STANDARDS AT THE TIME OF NOTICE TO PROCEED.
3. BOUNDARY AND TOPOGRAPHIC INFORMATION FURNISHED BY CALHOUN COUNTY ENGINEERS, COLLECTED ON 09/27/2017.
4. HORIZONTAL CONTROL: THE COORDINATES FOR THIS PROJECT HAVE BEEN ESTABLISHED BY GPS BASED ON SOUTH CAROLINA STATE PLANE NAD 83 (2011).
5. VERTICAL CONTROL: THE LOCATION AND ELEVATION OF BENCHMARKS ARE SHOWN ON THE PLANS. ALL ELEVATIONS SHOWN ARE IN FEET BASED ON NAVD 88 DATUM.
6. ALL PROJECT INSPECTION LOGS / CERTIFIED TEST RESULTS SHALL BE SUBMITTED TO THE OWNER WITH EACH PAY REQUEST.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND MAINTAINING THE PERMANENT AND/OR TEMPORARY STABILIZATION ALONG THE PROJECT LIMITS IN ACCORDANCE TO THE SCDOT SPECIFICATIONS. THIS WORK IS INCIDENTAL TO THE TOTAL COST OF THE PROJECT AND SHALL BE CONTRACTORS RESPONSIBILITY UNTIL THE START OF THE WARRANTY PERIOD
8. ALL INVERT ELEVATIONS ARE APPROXIMATE. INVERT ELEVATIONS OF INLETS AND PIPES MAY BE MODIFIED AS DIRECTED BY THE ENGINEER TO MEET THE CONDITIONS ENCOUNTERED DURING INSTALLATION OF DRAINAGE STRUCTURES. ALL DITCHES AND PIPES SHALL BE CONSTRUCTED ON UNIFORM GRADE BETWEEN INVERT ELEVATIONS AS NOTED ON PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
9. THE LOCATION AND LENGTH OF PIPE SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING.
10. THE CONTRACTOR SHALL REMOVE ALL SEDIMENT AND DEBRIS FROM ALL PIPES WITHIN THE PROJECT LIMITS UPON COMPLETION OF THE WORK.
11. THE CONTRACTOR SHALL GRADE FOR POSITIVE DRAINAGE AT ALL ROADWAY INTERSECTIONS, ENTRANCES, PARKING LOTS, AND YARDS IN CONFORMANCE WITH THE PROPOSED DRAINAGE PATTERNS ON THE PLANS.
12. UTILITIES:

A. THE LOCATIONS OF UNDERGROUND AND AERIAL UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE CONSIDERED AS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL NOTIFY PUPS TO ARRANGE STAKEOUT OF UTILITIES AT LEAST 3 DAYS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR MUST PROTECT, IN PLACE, ALL ACTIVE UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED ON THE PLANS. NO S.U.E. OR VERTICAL LOCATIONS HAVE BEEN COMPLETED AS PART OF THE PROJECT.

B. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF CONTRACTOR NEGLIGENCE OR METHOD OF OPERATION SHALL BE MADE AT NO ADDITIONAL COST TO THE COUNTY OR PROPERTY OWNER.

C. THE CONTRACTOR SHALL PROTECT AND NOT INTERRUPT EXISTING UTILITY SERVICES DURING CONSTRUCTION, UNLESS AUTHORIZED BY THE ENGINEER. THE CONTRACTOR SHALL SUPPORT EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION. THIS WORK SHALL BE INCIDENTAL TO THE PERTINENT PAY ITEMS. PORTIONS OF THE UTILITIES SHOWN ON THE PLANS MAY BE RELOCATED. NEW LOCATIONS SHALL BE AS SHOWN IN THESE CONTRACT PLANS.

D. ALL UNDERGROUND UTILITIES AND/OR CONDUITS AT PAVED AREAS MUST BE IN PLACE PRIOR TO THE PAVEMENT BASE CONSTRUCTION. CONTRACTOR SHALL ENSURE COMPACTION IN ALL UTILITY LOCATIONS.

E. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING MANHOLES, VALVE BOXES, OR OTHER UTILITIES LOCATED WITHIN THE ASPHALT OVERLAY AREA. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE FINAL ASPHALT PAVEMENT ITEM NECESSARY TO COMPLETE THE WORK, UNLESS OTHERWISE STATED.

13. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC THROUGHOUT THE ENTIRE PERIOD OF CONSTRUCTION BY PROVIDING A REASONABLY SMOOTH AND EVEN SURFACE SATISFACTORY FOR THE USE OF PUBLIC TRAFFIC AND TO PROVIDE ACCESS TO ALL PUBLIC ROADS AND RESIDENTIAL ENTRANCES AT ALL TIMES.
14. ALL EXISTING ROADWAY SIGNAGE SHALL BE RELOCATED, REUSED OR REPLACED AS INDICATED ON THE PLANS OR AS DEEMED NECESSARY TO PERFORM THE WORK. IF ROADWAY REMAINS OPEN TO TRAFFIC DURING CONSTRUCTION, ALL SIGNS THAT ARE TO BE RELOCATED SHALL BE ERECTED IN A TEMPORARY MANNER THAT DOES NOT IMPEDE TRAFFIC FLOW. ANY SIGN MESSAGE THAT CONFLICTS WITH THE CONSTRUCTION TRAFFIC CONTROL SIGNAGE SHALL BE COVERED OR TEMPORARILY REMOVED.
15. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ACCESS FOR MAIL SERVICE DURING CONSTRUCTION. IF NECESSARY, CONTRACTOR SHALL COORDINATE ANY TEMPORARY MAILBOX RELOCATIONS WITH UNITED STATES POSTAL SERVICE.
16. THE CONTRACTOR SHALL ADHERE TO THE WEIGHT LIMITS PRESCRIBED ON SCDOT/COUNTY MAINTAINED ROADS FOR HAULING EQUIPMENT AND/OR MATERIALS TO AND FROM THIS SITE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGES TO THE ROADS AND/OR UTILITIES DUE TO NONCOMPLIANCE OF WEIGHT LIMIT REGULATIONS.
17. THE CONTRACTOR SHALL MAKE, CHECK, AND BE RESPONSIBLE FOR ALL MEASUREMENTS AND DIMENSIONS NECESSARY FOR THE PROPER CONSTRUCTION OF ALL WORK. ALL ROAD WIDTH LAYOUT DIMENSIONS SHOWN ARE TO THE EDGE OF PAVEMENT.
18. ALL TIE INS WITH EXISTING ASPHALT SHALL BE SAW CUT.
19. ALL RESIDENTIAL DRIVEWAYS SHALL BE RECONSTRUCTED IN ACCORDANCE WITH THE STANDARD DRIVEWAY DETAIL. ANY CHANGES TO INDIVIDUAL DRIVEWAYS SHALL BE COORDINATED WITH THE ENGINEER.
20. ALL DRIVEWAY CULVERTS SHALL BE RCP PIPE.
21. THE CONTRACTOR MUST NOT OCCUPY ANY NON-PERMITTED WETLAND AREAS.
22. THE COUNTY ENGINEER MUST SPECIFICALLY AUTHORIZE CHANGES INVOLVING INCREASED COST OF PROJECT. THE COUNTY'S REPRESENTATIVE IS PERMITTED UNDER THE DIRECTION OF THE COUNTY ENGINEER TO AUTHORIZE MINOR ALTERATIONS NOT IN CONFLICT WITH THE STANDARD PRACTICES OF THE COUNTY AND/OR SCDOT.
23. AFTER CONTRACTOR CLEARS AND GRUBS, ALLOW THREE WEEKS FOR UTILITIES TO BE RELOCATED. ⚠

ROADWAY INCIDENTAL ITEMS

105.1	CONSTRUCTION STAKES, LINES & GRADES	1	EA	
208.1	FINE GRADING	5,620	SY	
305.6	GRADED AGGREGATE BASE COURSE (6" UNIFORM)	40	SY	(ADDITIONAL DRIVEWAYS AS DIRECTED BY ENGINEER)
401.4	HOT MIX ASPHALT SURFACE COURSE TYPE C	4	TON	(ADDITIONAL DRIVEWAYS AS DIRECTED BY ENGINEER)
4010005	PRIME COAT	1,486	GAL	(INCIDENTAL TO ITEM 305.6 and 305.8)
4011004	LIQUID ASPHALT BINDER PG64-22	28	TON	(INCIDENTAL TO ITEM 401.4)
810.0	PERMANENT VEGETATION	0.438	AC	
810.3	TEMPORARY VEGETATION	0.219	AC	

INFRASTRUCTURE CONSULTING & ENGINEERING
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1021 BRARGATE CIRCLE
COLUMBIA, SOUTH CAROLINA 29210

SOUTH CAROLINA PROFESSIONAL ENGINEER AARON D. LINNSTON No. 28436

SOUTH CAROLINA INFRASTRUCTURE CONSULTING & ENGINEERING, PLLC CERTIFICATE OF AUTHORIZATION No. 4470

SCALE: NTS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
7			
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⚠	ADN	9-17-18	NOTE 23 ADDED.

CALHOUN COUNTY CTC

HOWELL LANE

GENERAL CONSTRUCTION NOTES

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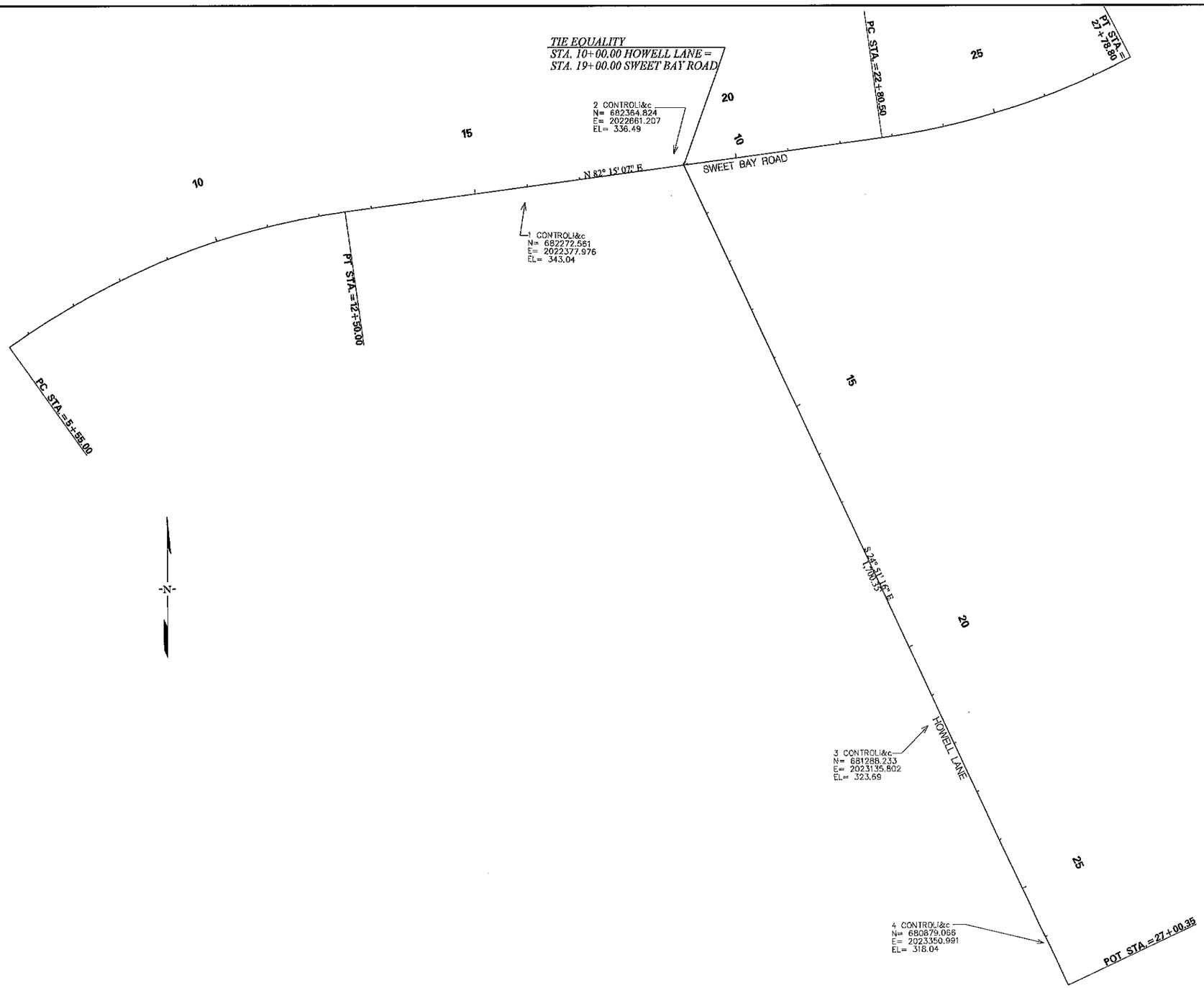
9/19/2018

FED RD. DIV NO.	STATE	COUNTY	PROJECT ID	ROAD /ROUTE NO.	SHEET NO.
3	SC	CALHOUN		HOWELL LANE	5A



Chain HOWELL contains:
100 101

Beginning chain HOWELL description

Point 100 N 682,343.0605 E 2,022,680.2324 Sta 10+00.00

Course from 100 to 101 S 24° 51' 15.5647" E Dist 1,700.3512

Point 101 N 680,800.1968 E 2,023,394.9114 Sta 27+00.35

Ending chain HOWELL description

Chain SWEET_BAY contains:
CUR SWEET_BAY-1 CUR SWEET_BAY-2

Beginning chain SWEET_BAY description

Curve Data

Curve SWEET_BAY-1
P.I. Station 9+09.48 N 682,207.64 E 2,021,684.92
Delta = 27° 48' 06.60" (RT)
Degree = 4° 00' 00.95"
Tangent = 354.48
Length = 695.00
Radius = 1,432.30
External = 43.21
Long Chord = 688.20
Mid. Ord. = 41.95
P.C. Station 5+55.00 N 682,001.54 E 2,021,396.51
P.T. Station 12+50.00 N 682,255.43 E 2,022,036.17
C.C. N 680,836.21 E 2,022,229.26
Back = N 54° 27' 00.83" E
Ahead = N 82° 15' 07.44" E
Chord Bear = N 68° 21' 04.13" E

Course from PT SWEET_BAY-1 to PC SWEET_BAY-2 N 82° 15' 07.44" E Dist 1,030.50

Curve Data

Curve SWEET_BAY-2
P.I. Station 25+32.19 N 682,428.29 E 2,023,306.65
Delta = 19° 55' 59.93" (LT)
Degree = 4° 00' 00.95"
Tangent = 251.69
Length = 498.30
Radius = 1,432.30
External = 21.95
Long Chord = 495.79
Mid. Ord. = 21.62
P.C. Station 22+80.50 N 682,394.36 E 2,023,057.26
P.T. Station 27+78.80 N 682,545.21 E 2,023,529.54
C.C. N 683,813.58 E 2,022,864.16
Back = N 82° 15' 07.44" E
Ahead = N 62° 19' 07.50" E
Chord Bear = N 72° 17' 07.47" E

Ending chain SWEET_BAY description

INFRASTRUCTURE CONSULTING & ENGINEERING
GONSULTING ENGINEERS
1021 BIVARGATE CIRCLE
COLUMBIA , SOUTH CAROLINA 29210

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 26136 AARON G. LIVINGSTON

SOUTH CAROLINA INFRASTRUCTURE CONSULTING & ENGINEERING, PLLC No. 4110 CERTIFICATE OF AUTHORIZATION

SCALE: 1" = 100'

REV.NO.	BY	DATE	DESCRIPTION OF REVISION
7			
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CALHOUN COUNTY CTC

HOWELL LANE

REFERENCE DATA SHEET

Z:\Projects\17-20.04 Goldenrod\Roadway\Howell\Plan Sheets\SHT_05A.dgn
9/19/2018

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		HOWELL LANE	6

UTILITY OWNERS

Tri-County Electric Coop
TCEI2
(803) 874-1215
Electric

Windstream Communication
WINZ08
(803) 791-3929
Phone

LEGEND

- SEDIMENT TUBE
- TYPE F INLET FILTERS (NON-WEIGHTED DURING CONSTRUCTION. WEIGHTED ONCE BASE COURSE IS PLACED.)

TIE EQUALITY
STA. 10+00.00 HOWELL LANE =
STA. 19+00.00 SWEET BAY ROAD

2 CONTROL&c
N= 682364.824
E= 2022661.207
EL= 336.49

BEGIN HOWELL LANE
STA.10+13.79
N=2022686.03
E=682330.55

HOWELL LANE

S 24° 51' 16" E
1,700.35

S-196 (SWEET BAY ROAD)

EXTEND EXISTING 18" RCP 16LF

PLACE TYPE 1 TRM BEHIND FILL
STATION 11+00-14+50

EXTEND EXISTING 18" RCP 8LF

PLACE W2-2R-36 & W13-1-18 WITH 1-3P-14' POST, APPROX. 530' FROM HOWELL LN AND SWEET BAY RD INTERSECTION FIELD LOCATE SIGN AS NECESSARY

APPLY 24" STOP BAR PAVEMENT MARKING STA.10+29.43

APPLY 4" DOUBLE YELLOW PAVEMENT MARKING

PLACE TYPE 1 TRM BEHIND FILL
STATION 10+50-13+50

PLACE 31 TONS CLASS B RIPRAP
PLACE 37 SY CLASS 2 GEOTEXTILE

CLEAN EXISTING OUTFALL 50LF

PLACE 8LF-30" RCP
INV. IN- 303.28
INV. OUT- 303.26

CONSTRUCT TYPE 9 CB

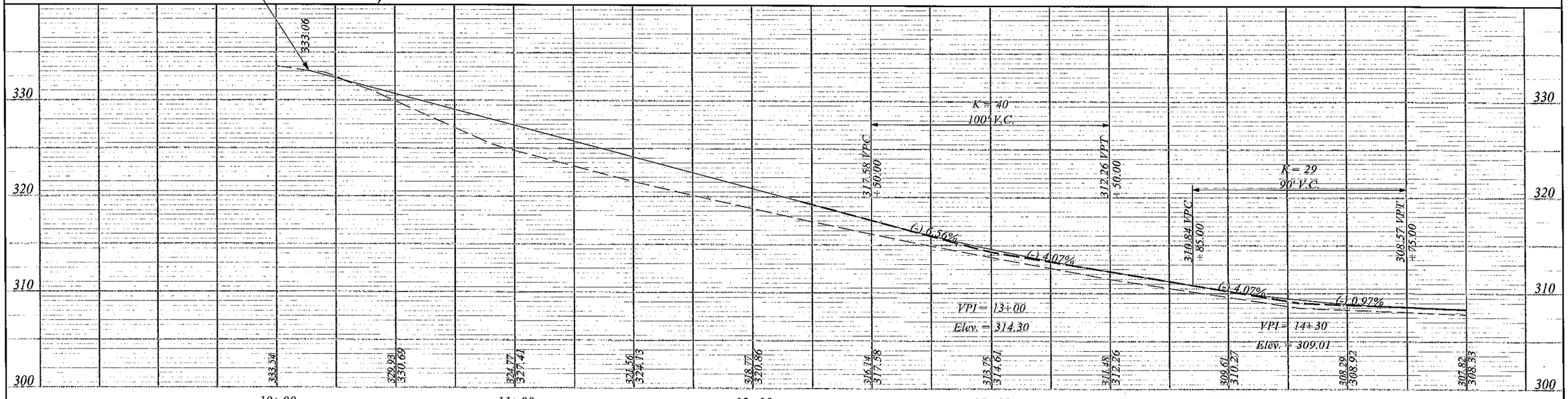
PLACE 28LF-30" RCP
INV. IN- 303.36
INV. OUT- 303.28

CONSTRUCT TYPE 9 CB

GRADE TO DRAIN TO BACK OF TYPE 9 CB

EASEMENT

MATCHLINE STA. 15+00 SEE SHEET 7



0 20 40 60 80
SCALE IN FEET

INFRASTRUCTURE CONSULTING & ENGINEERING
CONSULTING ENGINEERS
1021 BIVARGATE CIRCLE
COLUMBIA, SOUTH CAROLINA 29210

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 28136 AARON O. LIVINGSTON

INFRASTRUCTURE CONSULTING & ENGINEERING, PLLC No. 4870 CERTIFICATE OF AUTHORIZATION

SCALE: 1" = 20'

REV.NO.	BY	DATE	DESCRIPTION OF REVISION
7			
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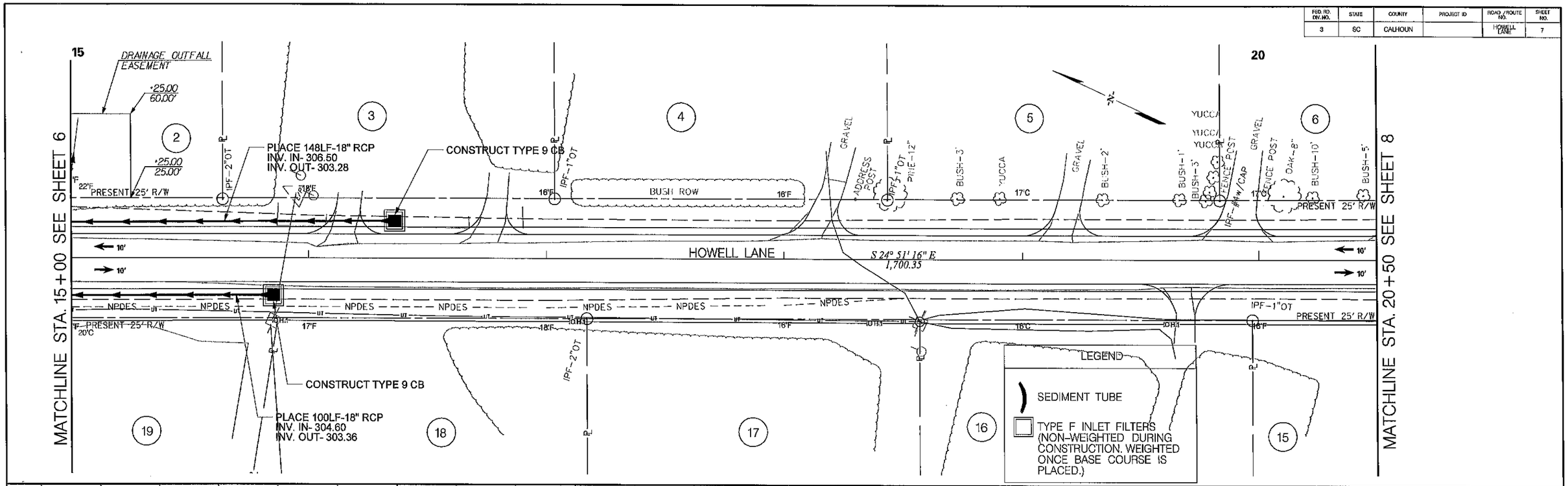
CALHOUN COUNTY CTC

HOWELL LANE

PLAN AND PROFILE SHEET

Z:\Projects\17-20.04 Goldenrod\Roadway\Howell\Plan Sheets\SHT_06.dgn
9/19/2018

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		HOWELL LANE	7



INFRASTRUCTURE CONSULTING & ENGINEERING
CONSULTING ENGINEERS
1021 BRIARGATE CIRCLE
COLUMBIA, SOUTH CAROLINA 29210

SCALE: 1" = 20'

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CALHOUN COUNTY CTC

HOWELL LANE

PLAN AND PROFILE SHEET

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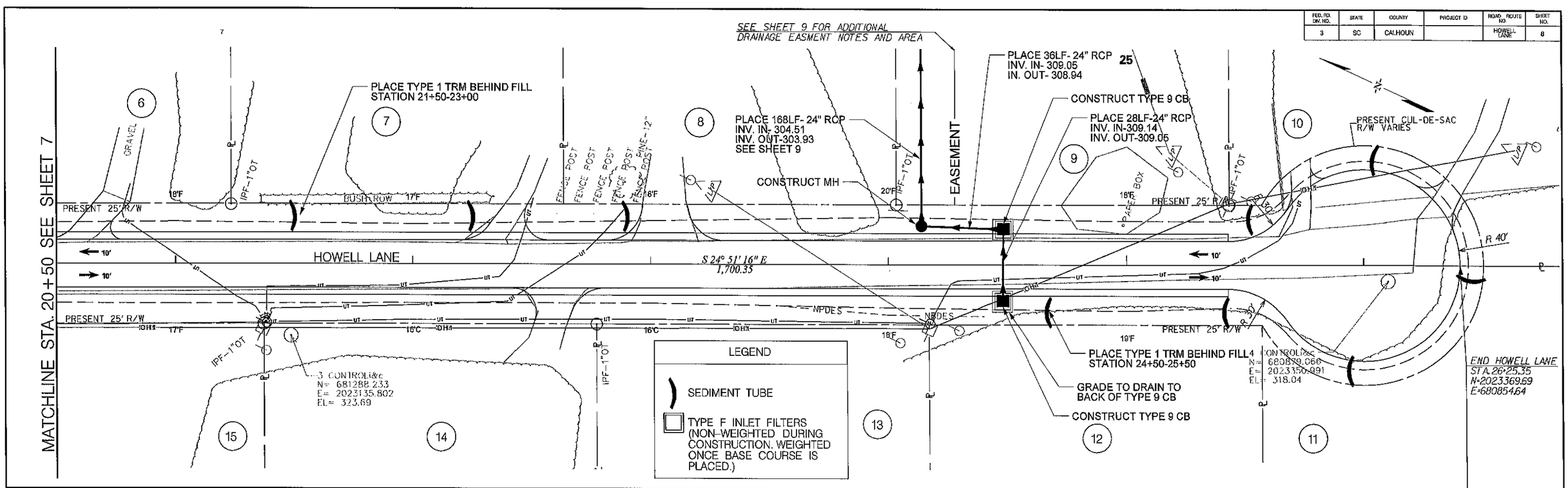
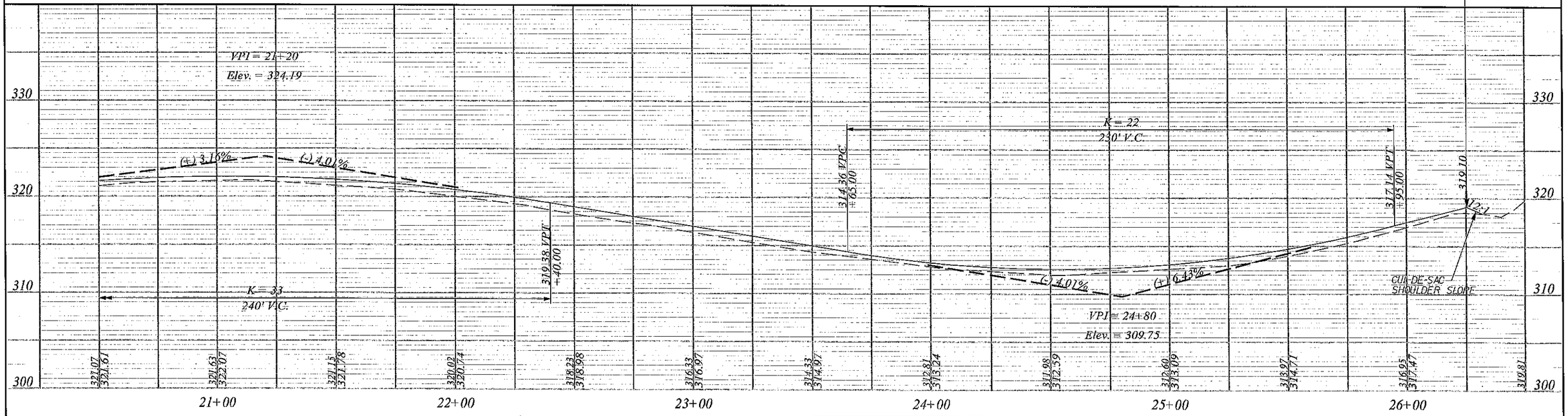
3	SC	CALHOUN		HOWELL LANE	8





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COLUMBIA, SOUTH CAROLINA 29210

SOUTH CAROLINA No. 26136 AARON O. LIVINGSTON

SOUTH CAROLINA INFRASTRUCTURE CONSULTING & ENGINEERING, PLLC No. 4410 CERTIFICATE OF AUTHORIZATION

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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD ROUTE NO	SHEET NO.
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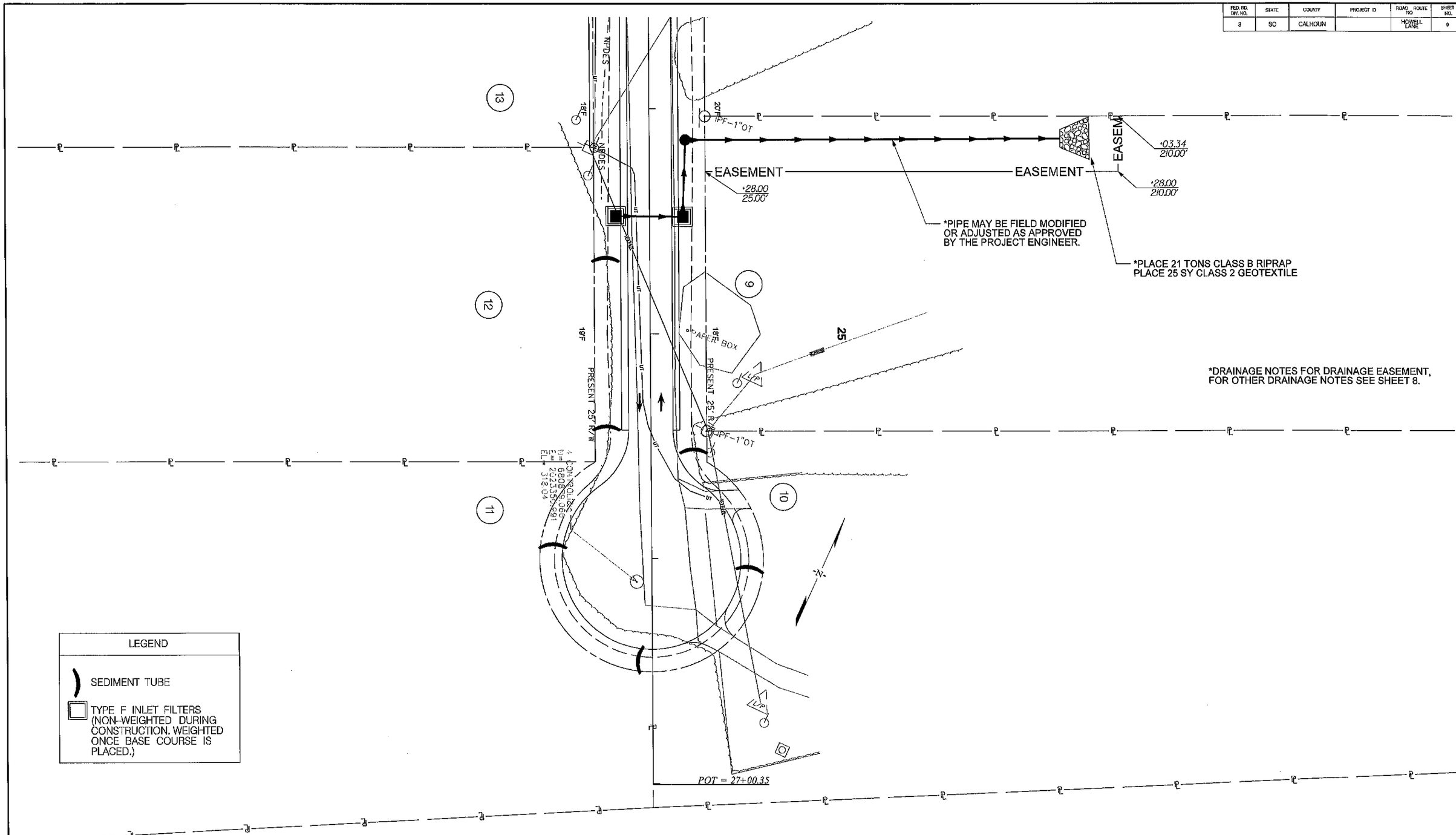

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HOWELL LANE

PLAN AND PROFILE SHEET

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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD ROUTE NO.	SHEET NO.
3	SC	CALHOUN		HOWELL LANE	10

FLAGGING OPERATIONS GENERAL NOTES

(ALL NOTES, SPECIFICATIONS AND REQUIREMENTS ON THIS STANDARD DRAWING APPLY TO ALL SUBSEQUENT STANDARD DRAWINGS REGARDING FLAGGING OPERATIONS UNLESS OTHERWISE NOTED)

FLAGGING OPERATIONS -

1. KEY FEATURES RELEVANT TO FLAGGING OPERATIONS

ADVANCE TAPER · DOWNSTREAM TAPER · FLAGGER STATION · CLOSED LANE FLAGGER · OPEN LANE FLAGGER · BUFFER SPACE · WORK ACTIVITY AREA · LIMITS OF THE WORK ACTIVITY AREA · APPROACH LANE · DEPARTURE LANE · MAJOR APPROACH · SIDE ROADS · LIMITS OF AN INTERSECTION

INCIDENTAL FLAGGING OPERATIONS -

BUFFER SPACE -

SPEED LIMIT	DISTANCE
LOW SPEED ≤ 35 MPH	200 FEET
INTERMEDIATE SPEED 40 - 50 MPH	350 FEET
HIGH SPEED 55 MPH	500 FEET

SIGNS AND TRAFFIC CONTROL DEVICES -

ADVANCE WARNING ARROW PANEL -

TRUCK MOUNTED ATTENUATOR -

GENERAL -

TABLE A

SIGN PLACEMENT INTERVALS	
SPEED LIMIT	*
* ≤ 35 MPH LOW SPEED	200
* 40 - 50 MPH INTERMEDIATE SPEED	350
* 55 MPH HIGH SPEED	500

* REGULATORY POSTED SPEED LIMIT PRIOR TO BEGINNING WORK

TABLE B

TRAFFIC CONTROL DEVICE SPACING INTERVALS WORK ACTIVITY / BUFFER SPACE AREAS	
SPEED LIMIT	SPACING INTERVALS
≤ 35 MPH	25 FEET
40 - 55 MPH	50 FEET

THIS DRAWING IS NOT TO SCALE

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER NO. 24242 WILLIE E. McCONNELL, JR.

SIGNATURE 7/27/15 DATE

SCDOT DESIGN STANDARDS OFFICE 955 PARK STREET ROOM 405 COLUMBIA, SC 29201

STANDARD DRAWING

FLAGGING OPERATIONS TWO-LANE TWO-WAY PRIMARY & SECONDARY ROUTES

610-005-00

DRAWING 610-005-10 NOTES

1. SEE STANDARD DRAWING NO. 610-005-00 FOR ALL GENERAL NOTES AND REQUIREMENTS.

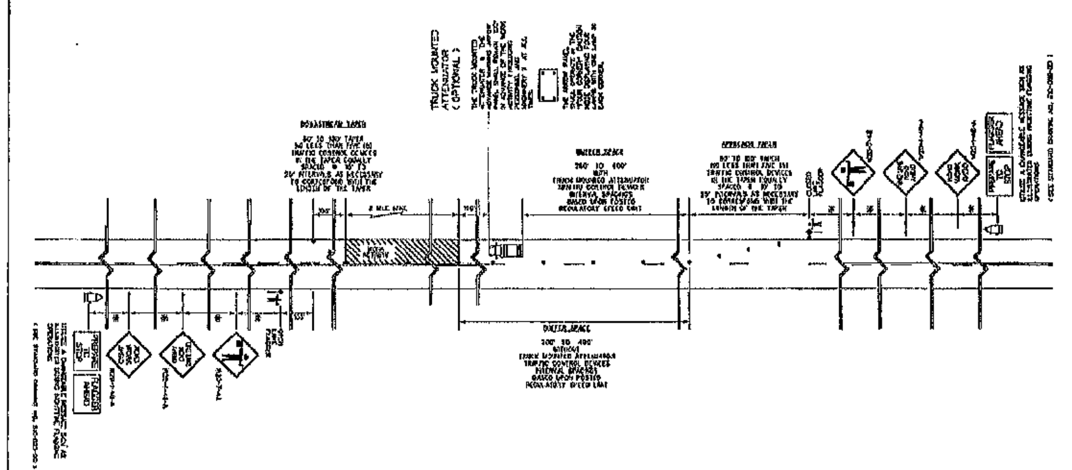

TABLE A

SIGN PLACEMENT INTERVALS	
SPEED LIMIT	*
* ≤ 35 MPH LOW SPEED	200
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* 55 MPH HIGH SPEED	500

* REGULATORY POSTED SPEED LIMIT PRIOR TO BEGINNING WORK

TABLE B

TRAFFIC CONTROL DEVICE SPACING INTERVALS WORK ACTIVITY / BUFFER SPACE AREAS	
SPEED LIMIT	SPACING INTERVALS
≤ 35 MPH	25 FEET
40 - 55 MPH	50 FEET

THIS DRAWING IS NOT TO SCALE

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER NO. 24242 WILLIE E. McCONNELL, JR.

SIGNATURE 7/27/15 DATE

SCDOT DESIGN STANDARDS OFFICE 955 PARK STREET ROOM 405 COLUMBIA, SC 29201

STANDARD DRAWING

FLAGGING OPERATIONS TWO-LANE TWO-WAY ROADWAYS WITHOUT INTERSECTIONS

610-005-10

DRAWING 610-005-20 NOTES

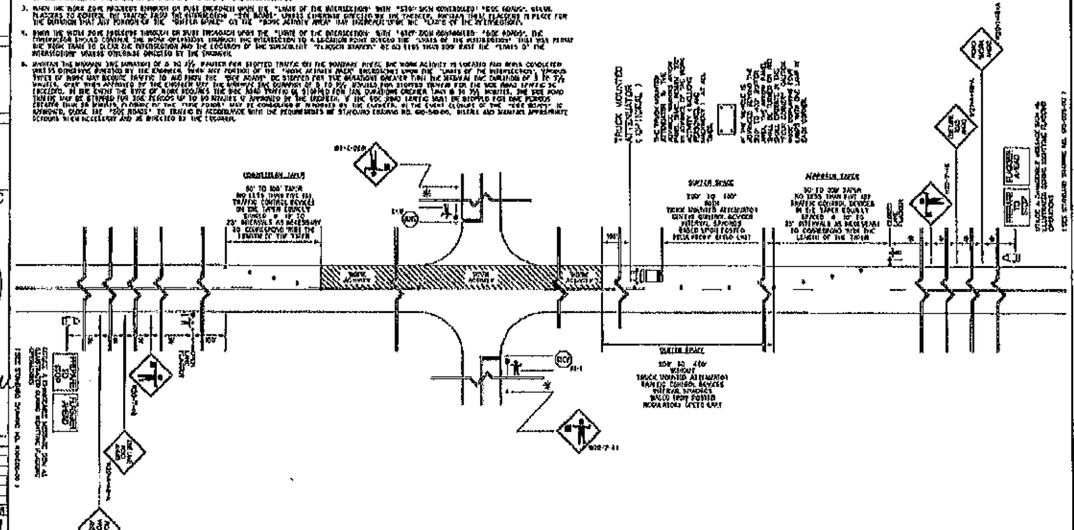

TABLE A

SIGN PLACEMENT INTERVALS	
SPEED LIMIT	*
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TABLE B

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SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER NO. 24242 WILLIE E. McCONNELL, JR.

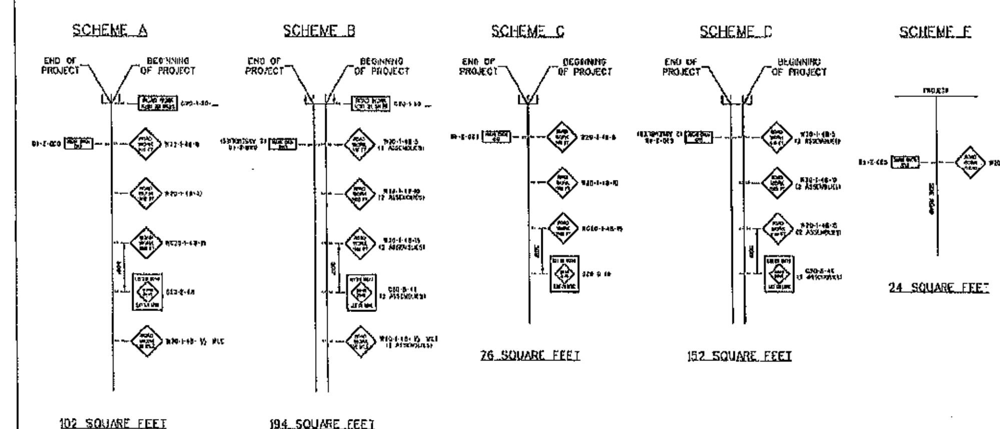
SIGNATURE 7/27/15 DATE

SCDOT DESIGN STANDARDS OFFICE 955 PARK STREET ROOM 405 COLUMBIA, SC 29201

STANDARD DRAWING

FLAGGING OPERATIONS WORK ZONES CONTINUING THROUGH STOP SIGN CONTROLLED SIDE ROADS

610-005-20



GENERAL NOTES

THIS DRAWING IS NOT TO SCALE

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER NO. 24242 WILLIE E. McCONNELL, JR.

SIGNATURE 8/2/12 DATE

SCDOT DESIGN STANDARDS OFFICE 955 PARK STREET ROOM 405 COLUMBIA, SC 29201

STANDARD DRAWING

CONSTRUCTION SIGNING PERMANENT PRIMARY ROUTES

605-010-02

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HOWELL LANE

DETAIL SHEET

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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD ROUTE NO.	SHEET NO.
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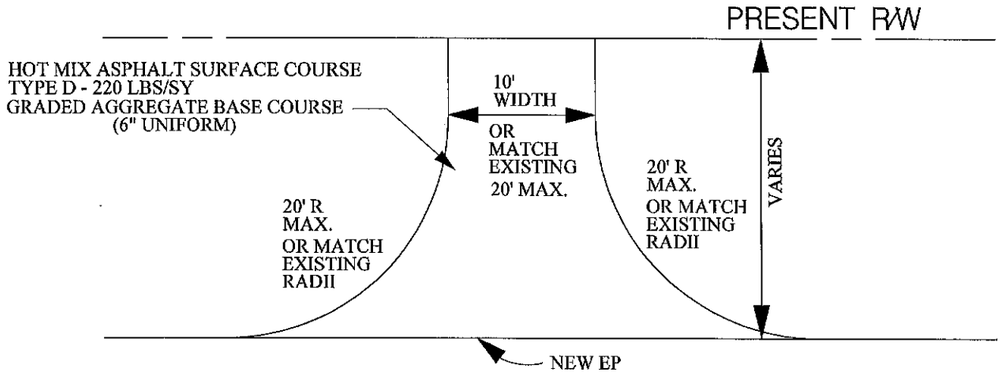

TYPICAL DRIVEWAY DETAIL

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HOWELL LANE

DETAIL SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	CALHOUN		HOWELL LANE	EC1

EROSION CONTROL NOTES

SCDHEC STANDARD 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 FOURTEEN (14) DAYS AFTER WORK HAS 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 ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

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 SEDIMENT 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 APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. 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?T 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, INSPECTIONS 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 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 EQUIVALENT 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 FROM SITES ARE PROHIBITED:
   - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
   - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
   - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
   - 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 THIS PERMIT 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.

SEQUENCE OF CONSTRUCTION

1. OBTAIN NPDES COVERAGE FROM DHEC
2. NOTIFY CALHOUN COUNTY 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
3. INSTALL TREE PROTECTION AND DELINEATE CLEARING LIMITS
4. CLEARING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS (E.G. SILT FENCE).
5. INSTALL PERIMETER CONTROLS (E.G. SILT FENCE).
6. PROVIDE SITE DRAINAGE WITH DIVERSION DITCHES, SWALES AND DRAINS.
7. CLEARING AND GRUBBING OF SITE (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED.
8. STRIP TOP SOIL AND STOCKPILE FOR LATER USE ON SHOULDERS AND SLOPES PER SECTION 209 OF THE STANDARD SPECIFICATIONS. "ALL DISTURBED AREA [ANY AREA OF LAND THAT WILL BE DISTURBED DURING CONSTRUCTION, THAT INCLUDES CLEARING, GRUBBING, STOCK PILING, AND INSTALLATION OF ANY BMPS (SILT FENCE, SWALES, CHECK DAMS, ETC] MUST BE INCLUDED WITHIN THE LIMITS OF DISTURBANCE."
9. ROUGH GRADING
10. INSTALL STORM DRAINAGE
11. FINE GRADING
12. ASPHALT PAVING
13. FINISH GRADING AND FINAL GRASSING AND LANDSCAPING
14. MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES FOR THE EXTENT OF THE PROJECT
15. REMOVAL OF SEDIMENT CONTROLS AFTER SITE HAS BEEN STABILIZED
16. CONTACT CALHOUN COUNTY FOR FINAL INSPECTION
17. FILE NOTICE OF TERMINATION WITH CALHOUN COUNTY

EROSION CONTROL ITEMS

815.4	SILT FENCE	550 LF	
8153090	REPLACE/REPAIR SILT FENCE	55 LF	(INCIDENTAL TO ITEM 815.0)
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	140 LF	(INCIDENTAL TO ITEM 815.0)
815.3	INLET STRUCTURE FILTER - TYPE F (WEIGHTED)	80 LF	
815.2A	INLET STRUCTURE FILTER - TYPE F (NON-WEIGHTED) ...	80 LF	
8152007	SEDIMENT TUBES FOR DITCH CHECKS	320 LF	

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 26136 AARON D. LIVINGSTON

SOUTH CAROLINA INFRASTRUCTURE CONSULTING & ENGINEERING, PLLC No. 4470 CERTIFICATE OF AUTHORIZATION

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EROSION CONTROL NOTES

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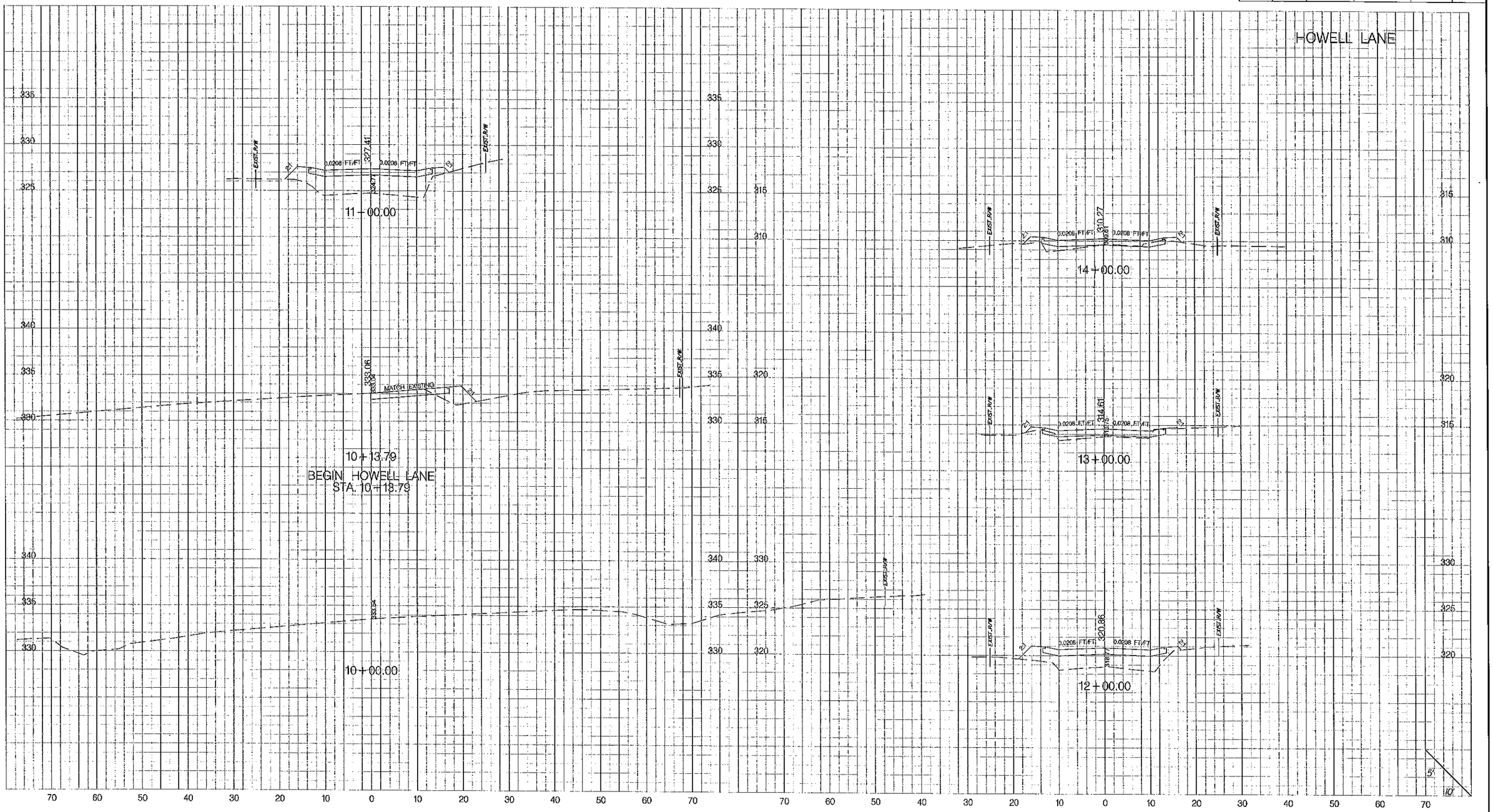
HOWELL LANE



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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 26136 AARON O. LIVINGSTON

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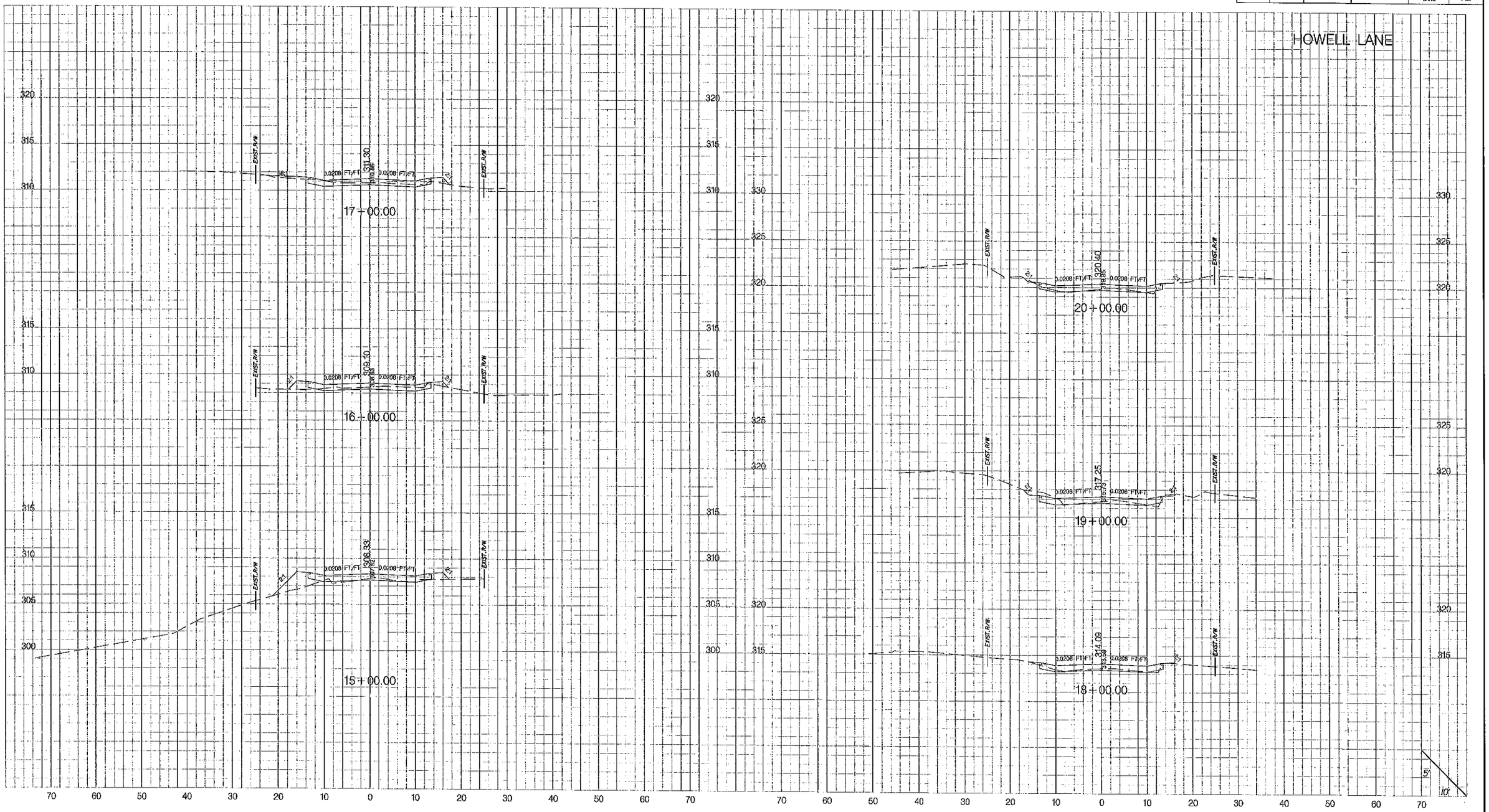

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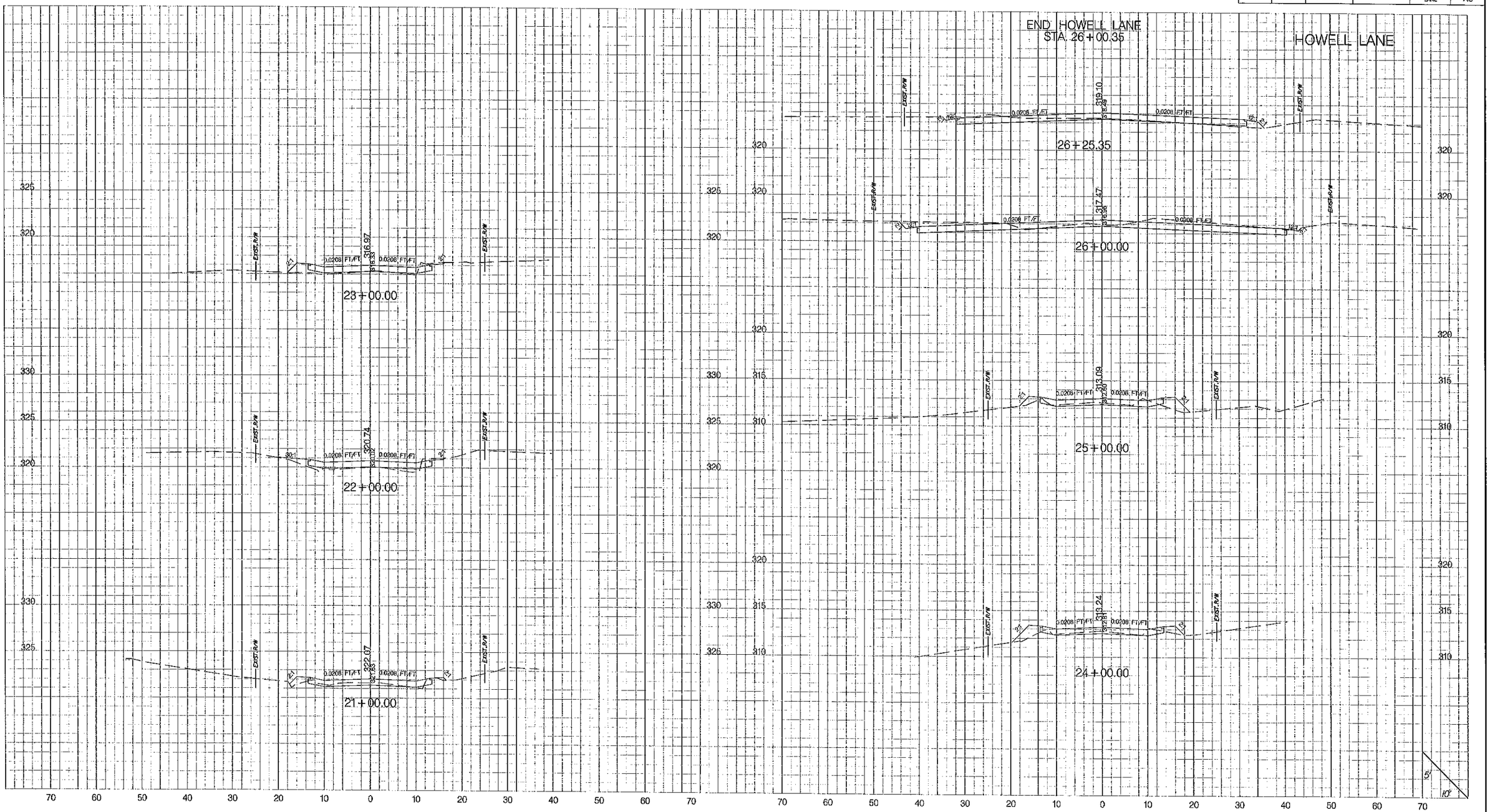

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