

PLANS AND DETAILS FOR PROPOSED LIGHTING /ELECTRICAL CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DocuSigned by: Nathan Dominguez 12/04/2024

NOTES

- 1 TERMINATE CONDUIT AT DUKE ENERGY TRANSFORMER LOCATION.
- 2 LOCATION (LOC #___) STATIONS SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL USE OFFSETS PROVIDED TO ALIGN CONDUIT IN PROPER LOCATION. CONTRACTOR IS NOT REQUIRED TO PROVIDE TURN UPS AT ANY LOCATION. DUKE ENERGY WILL HAND DIG AND LOCATE CONDUIT INSTALLED BY CONTRACTOR WHEN LIGHT POLES ARE INSTALLED AT A LATER DATE.
- 3 DUKE ENERGY WILL CUT CONDUIT AND TURN UP AT EACH LOCATION, THEREFORE TOTAL CONDUIT BENDS MAY EXCEED 360 DEGREES BETWEEN TERMINATION POINTS SHOWN ON THE PLANS.
- 4 AT THESE LOCATIONS, CONTACTOR SHALL MARK THE END OF THE CONDUIT WITH REBAR OR SCRAP CONDUIT EXTENDING 18" ABOVE GRADE. INSTALL CAP ON TERMINATION POINT OF UNDERGROUND CONDUIT.
- 5 ALL CONDUIT SHALL BE 2" PVC OR HDPE.
- 6 CONDUIT ALIGNMENT MAY BE FIELD ADJUSTED AS REQUIRED TO STAY WITHIN THE LIMITS OF CONSTRUCTION, WITHIN RIGHT-OF-WAY, OUT OF DITCH LINES, AWAY FROM FENCE POSTS, GUARDRAILS AND CABLE GUIDERAILS, AND TO CLEAR OBSTRUCTIONS.
- 7 INSTALL ALL BORE PITS OUTSIDE THE CLEAR ZONE, AS DEFINED BY THE 2011 AASHTO ROADSIDE DESIGN GUIDE OR AS DIRECTED BY THE ENGINEER.
- 8 INSTALL CONDUIT IN EARTHEN STRIP BETWEEN THE PROPOSED PARKING LOT CURB AND THE PROPOSED RETAINING WALL.

SCOPE OF WORK

PROVIDE AND INSTALL AN UNDERGROUND CONDUIT SYSTEM FOR FUTURE DUKE ENERGY LIGHTING. LIGHTING INSTALLATION WILL BE BY OTHERS AT A FUTURE DATE.

LEGEND

- PROPOSED 2" ELECTRICAL DUCT, TYPE BURIED (BD)
- PROPOSED 2" ELECTRICAL DUCT, TYPE TRENCHLESS (TL)

ROADWAY STANDARDS

THE FOLLOWING ROADWAY ENGLISH STANDARDS AS APPEAR IN "NCDOT ROADWAY STANDARD DRAWINGS", ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD NO.	TITLE
1409.01	ELECTRICAL DUCT

ALL WORK SHALL BE IN CONFORMANCE WITH DIVISION 14 OF THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, DATED JANUARY 2024.

DESIGN CRITERIA

- 2020 NATIONAL ELECTRICAL CODE
- 2011 AASHTO ROADSIDE DESIGN GUIDE

ABBREVIATIONS

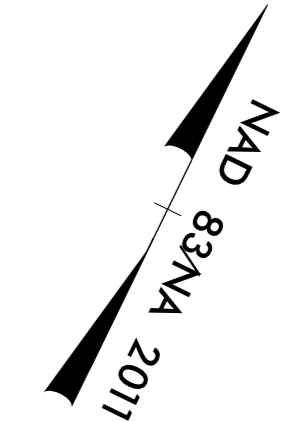
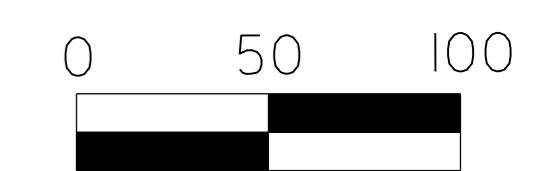
BD	BURIED	PVC	PVC SCHEDULE 40 CONDUIT
LT	LIGHT	RG	RIGID GALVANIZED STEEL CONDUIT
TL	TRENCHLESS	C	CONDUIT
MH	MOUNTING HEIGHT	CKT	CIRCUIT
Ø	PHASE	N	NEUTRAL
SER LAT	SERVICE LATERAL	G	GROUND
IGJB	IN GROUND JUNCTION BOX	HM	HIGH MAST
LED	LIGHT EMITTING DIODE	LSJB	LIGHT STANDARD JUNCTION BOX
HMJB	HIGH MAST JUNCTION BOX	CSJB	CONTROL SYSTEM JUNCTION BOX

COMPUTED BY: RGH DATE: 11/15/24
 CHECKED BY: M DATE: 12/04/2024

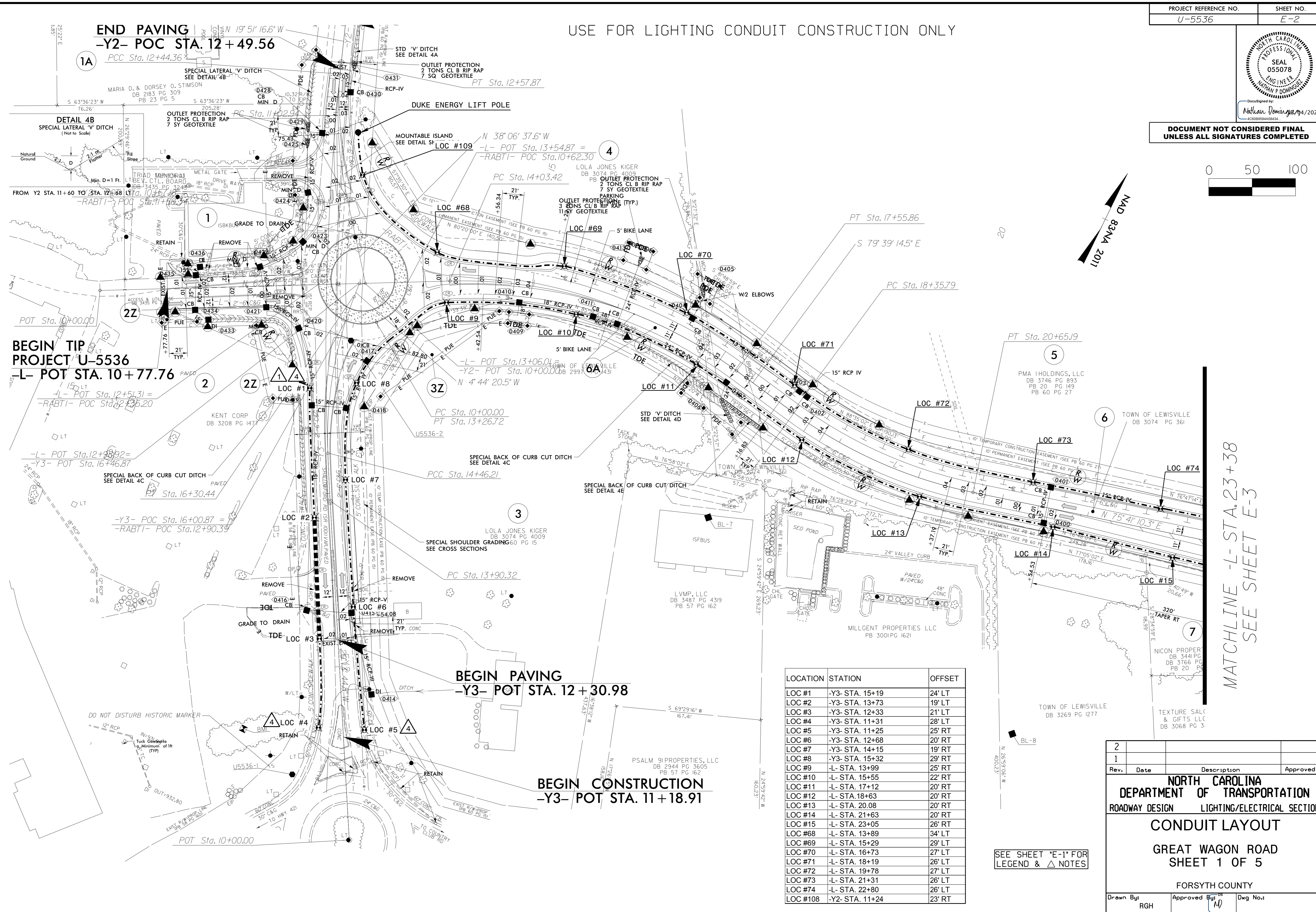


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Nathan Dominguez 04/2024
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USE FOR LIGHTING CONDUIT CONSTRUCTION ONLY



LOCATION	STATION	OFFSET
LOC #1	-Y3- STA. 15+19	24' LT
LOC #2	-Y3- STA. 13+73	19' LT
LOC #3	-Y3- STA. 12+33	21' LT
LOC #4	-Y3- STA. 11+31	28' LT
LOC #5	-Y3- STA. 11+25	25' RT
LOC #6	-Y3- STA. 12+68	20' RT
LOC #7	-Y3- STA. 14+15	19' RT
LOC #8	-Y3- STA. 15+32	29' RT
LOC #9	-L- STA. 13+99	25' RT
LOC #10	-L- STA. 15+55	22' RT
LOC #11	-L- STA. 17+12	20' RT
LOC #12	-L- STA. 18+63	20' RT
LOC #13	-L- STA. 20+08	20' RT
LOC #14	-L- STA. 21+63	20' RT
LOC #15	-L- STA. 23+05	26' RT
LOC #68	-L- STA. 13+89	34' LT
LOC #69	-L- STA. 15+29	29' LT
LOC #70	-L- STA. 16+73	27' LT
LOC #71	-L- STA. 18+19	26' LT
LOC #72	-L- STA. 19+78	27' LT
LOC #73	-L- STA. 21+31	26' LT
LOC #74	-L- STA. 22+80	26' LT
LOC #108	-Y2- STA. 11+24	23' RT

SEE SHEET "E-1" FOR
LEGEND & △ NOTES

MATCHLINE -L- STA. 23+38
SEE SHEET E-3

2			
1			
Rev.	Date	Description	Approved
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION CONDUIT LAYOUT GREAT WAGON ROAD SHEET 1 OF 5 FORSYTH COUNTY			
Drawn By:	RGH	Approved By:	[Signature]
Dwg No.:			

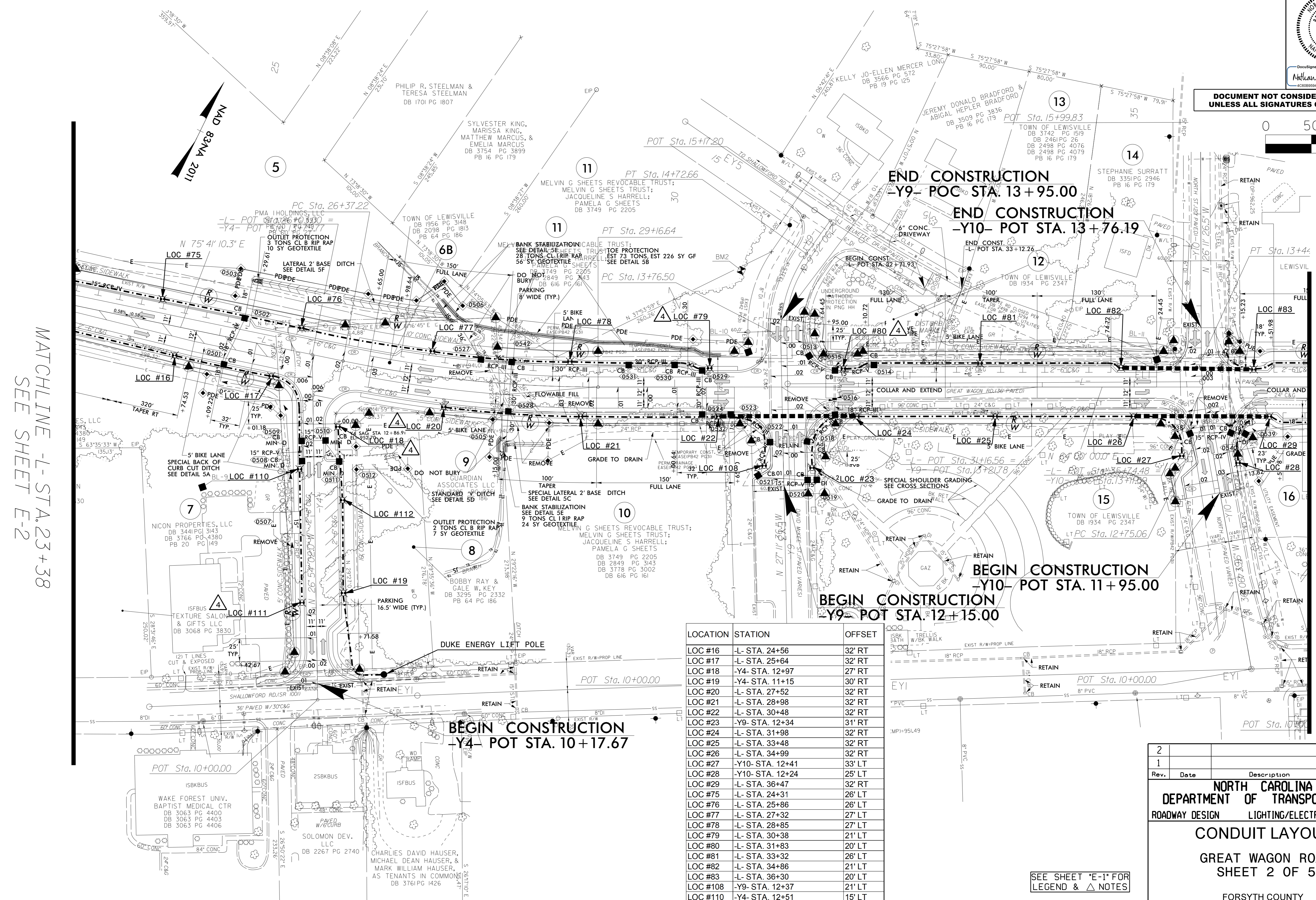
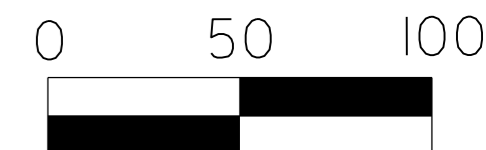
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MATCHLINE -L- STA. 23+38
SEE SHEET E-2

MATCHLINE -L- STA. 36+90
SEE SHEET E-4

LOCATION	STATION	OFFSET
LOC #16	-L- STA. 24+56	32' RT
LOC #17	-L- STA. 25+64	32' RT
LOC #18	-Y4- STA. 12+97	27' RT
LOC #19	-Y4- STA. 11+15	30' RT
LOC #20	-L- STA. 27+52	32' RT
LOC #21	-L- STA. 28+98	32' RT
LOC #22	-L- STA. 30+48	32' RT
LOC #23	-Y9- STA. 12+34	31' RT
LOC #24	-L- STA. 31+98	32' RT
LOC #25	-L- STA. 33+48	32' RT
LOC #26	-L- STA. 34+99	32' RT
LOC #27	-Y10- STA. 12+41	33' LT
LOC #28	-Y10- STA. 12+24	25' LT
LOC #29	-L- STA. 36+47	32' RT
LOC #75	-L- STA. 24+31	26' LT
LOC #76	-L- STA. 25+86	26' LT
LOC #77	-L- STA. 27+32	27' LT
LOC #78	-L- STA. 28+85	27' LT
LOC #79	-L- STA. 30+38	21' LT
LOC #80	-L- STA. 31+83	20' LT
LOC #81	-L- STA. 33+32	26' LT
LOC #82	-L- STA. 34+86	21' LT
LOC #83	-L- STA. 36+30	20' LT
LOC #108	-Y9- STA. 12+37	21' LT
LOC #110	-Y4- STA. 12+51	15' LT
LOC #111	-Y4- STA. 11+06	15' LT
LOC #112	-Y4- STA. 12+17	31' RT

SEE SHEET "E-1" FOR
LEGEND & △ NOTES

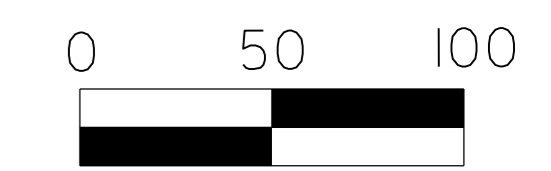
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Rev.	Date	Description	Approved
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Drawn By:	RGH	Approved By:	MD
Dwg No.:			

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rghall



DocuSign by Nathan Dominguez 11/14/2024

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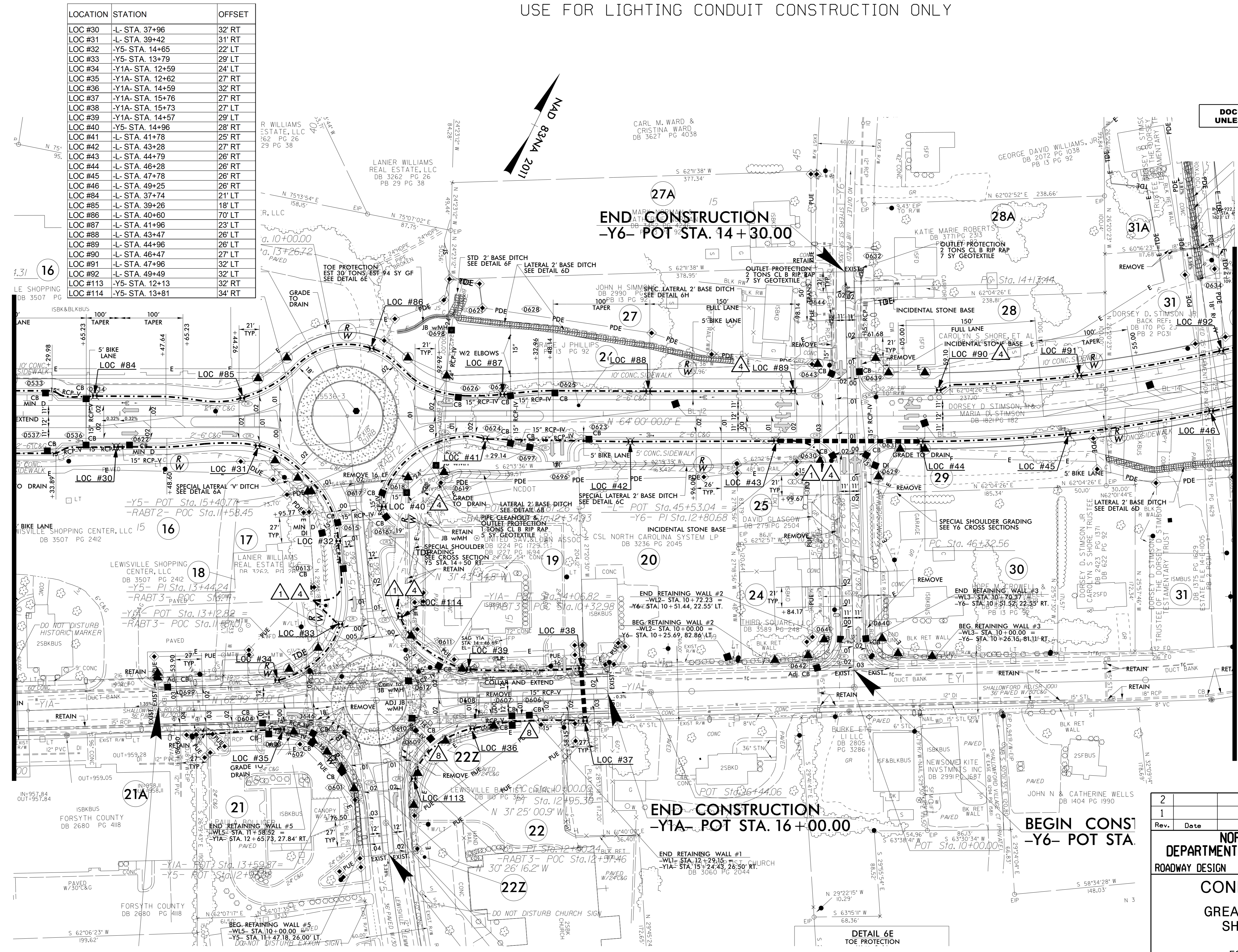
SEE SHEET "E-1" FOR LEGEND & Δ NOTES

USE FOR LIGHTING CONDUIT CONSTRUCTION ONLY

LOCATION	STATION	OFFSET
LOC #30	-L- STA. 37+96	32' RT
LOC #31	-L- STA. 39+42	31' RT
LOC #32	-Y5- STA. 14+65	22' LT
LOC #33	-Y5- STA. 13+79	29' LT
LOC #34	-Y1A- STA. 12+59	24' LT
LOC #35	-Y1A- STA. 12+62	27' RT
LOC #36	-Y1A- STA. 14+59	32' RT
LOC #37	-Y1A- STA. 15+76	27' RT
LOC #38	-Y1A- STA. 15+73	27' LT
LOC #39	-Y1A- STA. 14+57	29' LT
LOC #40	-Y5- STA. 14+96	28' RT
LOC #41	-L- STA. 41+78	25' RT
LOC #42	-L- STA. 43+28	27' RT
LOC #43	-L- STA. 44+79	26' RT
LOC #44	-L- STA. 46+28	26' RT
LOC #45	-L- STA. 47+78	26' RT
LOC #46	-L- STA. 49+25	26' RT
LOC #84	-L- STA. 37+74	21' LT
LOC #85	-L- STA. 39+26	18' LT
LOC #86	-L- STA. 40+60	70' LT
LOC #87	-L- STA. 41+96	23' LT
LOC #88	-L- STA. 43+47	26' LT
LOC #89	-L- STA. 44+96	26' LT
LOC #90	-L- STA. 46+47	27' LT
LOC #91	-L- STA. 47+96	32' LT
LOC #92	-L- STA. 49+49	32' LT
LOC #113	-Y5- STA. 12+13	32' RT
LOC #114	-Y5- STA. 13+81	34' RT

MATCHLINE -L- STA. 36+90 SEE SHEET E-3

MATCHLINE -L- STA. 49+56 SEE SHEET E-5



END CONSTRUCTION
-Y6- POT STA. 14+30.00

END CONSTRUCTION
-Y1A- POT STA. 16+00.00

BEGIN CONSTRUCTION
-Y6- POT STA. 10+00.00

DETAIL 6E
TOE PROTECTION

Rev.	Date	Description	Approved
2			
1			

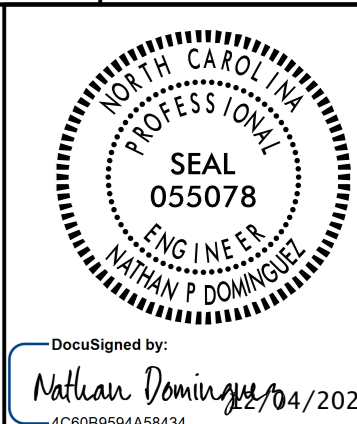
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION

CONDUIT LAYOUT
GREAT WAGON ROAD
SHEET 3 OF 5

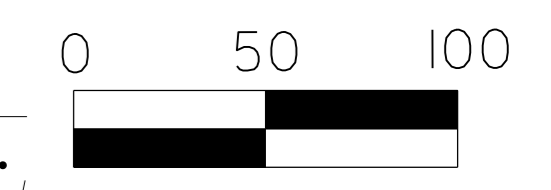
FORSYTH COUNTY

Drawn By: RGH	Approved By: [Signature]	Dwg No.:
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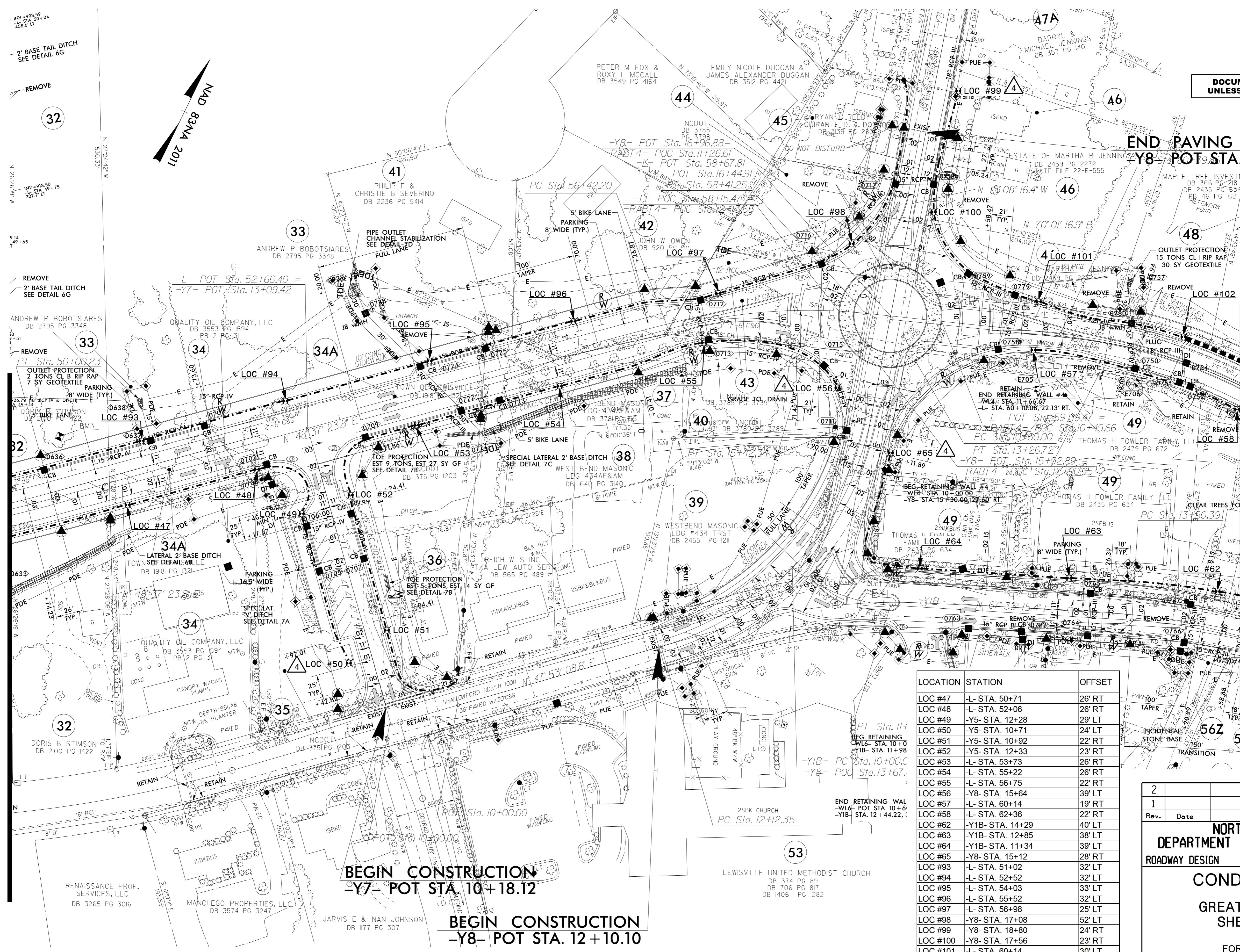
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SEE SHEET "E-1" FOR LEGEND & Δ NOTES



MATCHLINE -L- STA. 49+56 SEE SHEET E-4

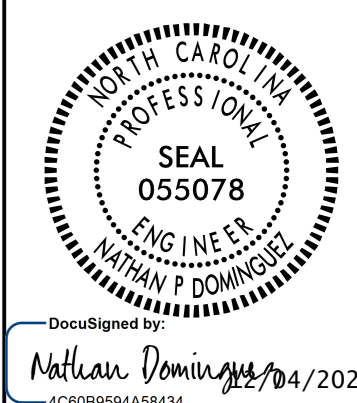
MATCHLINE -L- STA. 62+30 SEE SHEET E-6

LOCATION	STATION	OFFSET
LOC #47	-L- STA. 50+71	26' RT
LOC #48	-L- STA. 52+06	26' RT
LOC #49	-Y5- STA. 12+28	29' LT
LOC #50	-Y5- STA. 10+71	24' LT
LOC #51	-Y5- STA. 10+92	22' RT
LOC #52	-Y5- STA. 12+33	23' RT
LOC #53	-L- STA. 53+73	26' RT
LOC #54	-L- STA. 55+22	26' RT
LOC #55	-L- STA. 56+75	22' RT
LOC #56	-Y8- STA. 15+64	39' LT
LOC #57	-L- STA. 60+14	19' RT
LOC #58	-L- STA. 62+36	22' RT
LOC #62	-Y1B- STA. 14+29	40' LT
LOC #63	-Y1B- STA. 12+85	38' LT
LOC #64	-Y1B- STA. 11+34	39' LT
LOC #65	-Y8- STA. 15+12	28' RT
LOC #93	-L- STA. 51+02	32' LT
LOC #94	-L- STA. 52+52	32' LT
LOC #95	-L- STA. 54+03	33' LT
LOC #96	-L- STA. 55+52	32' LT
LOC #97	-L- STA. 56+98	25' LT
LOC #98	-Y8- STA. 17+08	52' LT
LOC #99	-Y8- STA. 18+80	24' RT
LOC #100	-Y8- STA. 17+56	23' RT
LOC #101	-L- STA. 60+14	30' LT
LOC #102	-L- STA. 61+59	24' LT

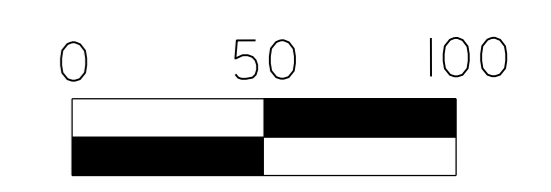
BEGIN CONSTRUCTION
-Y7- POT STA. 10+18.12

BEGIN CONSTRUCTION
-Y8- POT STA. 12+10.10

2			
1			
Rev.	Date	Description	Approved
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION CONDUIT LAYOUT GREAT WAGON ROAD SHEET 4 OF 5 FORSYTH COUNTY			
Drawn By:	RGH	Approved By:	[Signature]
Dwg No.:			



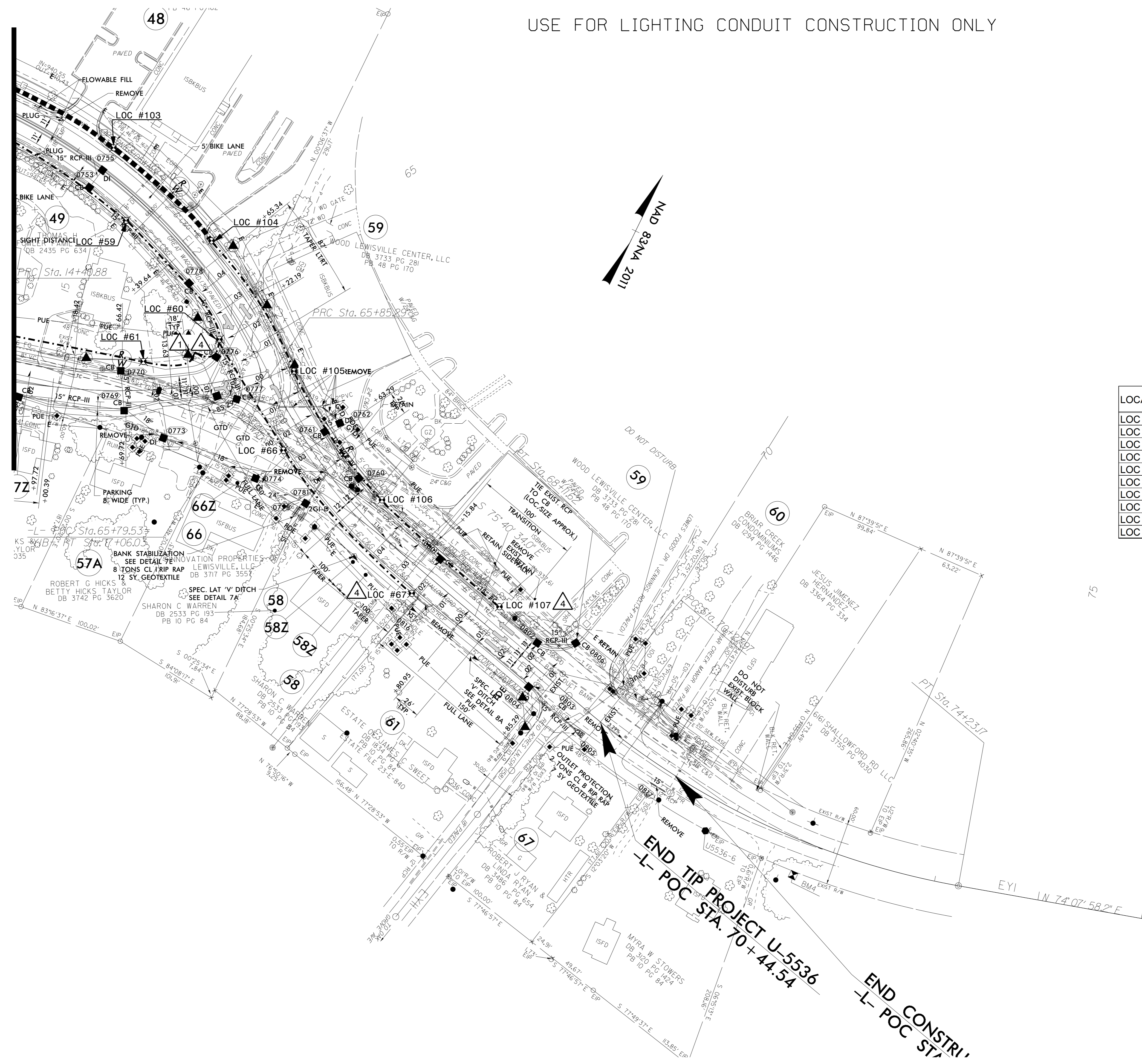
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SEE SHEET "E-1" FOR
LEGEND & Δ NOTES

USE FOR LIGHTING CONDUIT CONSTRUCTION ONLY

MATCHLINE -L- STA. 62+30
SEE SHEET E-5



LOCATION	STATION	OFFSET
LOC #59	-L- STA. 63+79	22' RT
LOC #60	-L- STA. 65+30	25' RT
LOC #61	-Y1B- STA. 15+88	27' LT
LOC #66	-L- STA. 66+51	23' RT
LOC #67	-L- STA. 68+28	23' RT
LOC #103	-L- STA. 61+58	24' LT
LOC #104	-L- STA. 64+49	23' LT
LOC #105	-L- STA. 65+91	23' LT
LOC #106	-L- STA. 67+46	23' LT
LOC #107	-L- STA. 69+00	22' LT

2			
1			
Rev.	Date	Description	Approved
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION CONDUIT LAYOUT GREAT WAGON ROAD SHEET 5 OF 5 FORSYTH COUNTY			
Drawn By:	RGH	Approved By:	<i>[Signature]</i>
Dwg No.:			

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