

JUNCTION BOX AND CONDUIT INSTALLED AT BACK OF RIGHT-OF-WAY TO MINIMIZE IMPACTS WHEN NC 55 IS WIDENED DURING PROJECT R-5705C

- NOTES:**
- UNLESS OTHERWISE NOTED:
 - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER.
 - ATTACH ON FRONT SIDE (FS) OF POLE.
 - SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX / CABINET ENTRANCES.

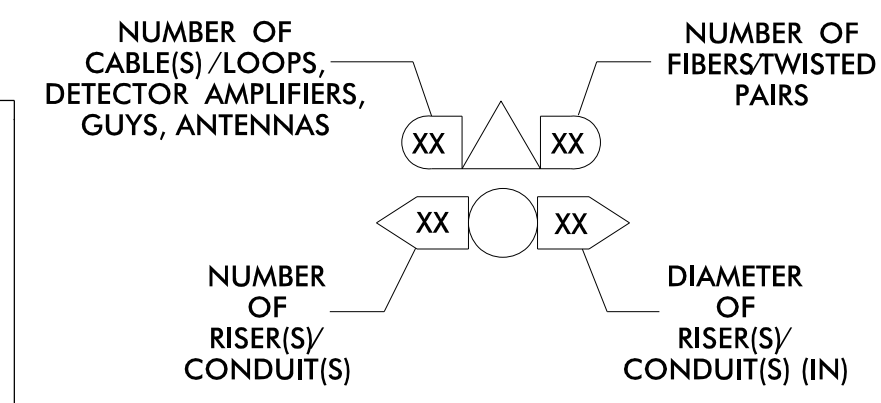
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XXX DISTANCE ABOVE (IN) REFERENCE POINT

YYY REFERENCE POINT

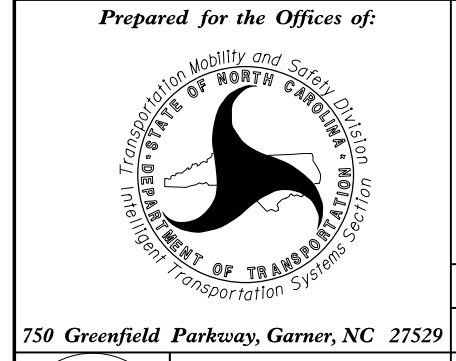
YYY REFERENCE POINT DISTANCE BELOW (IN) XXX

CONSTRUCTION NOTE SYMBOLY KEY



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



Prepared for the Offices of:

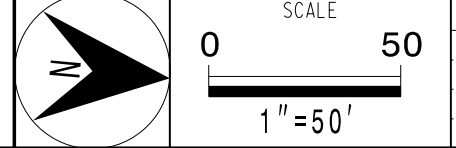
Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

REVISIONS INIT. DATE

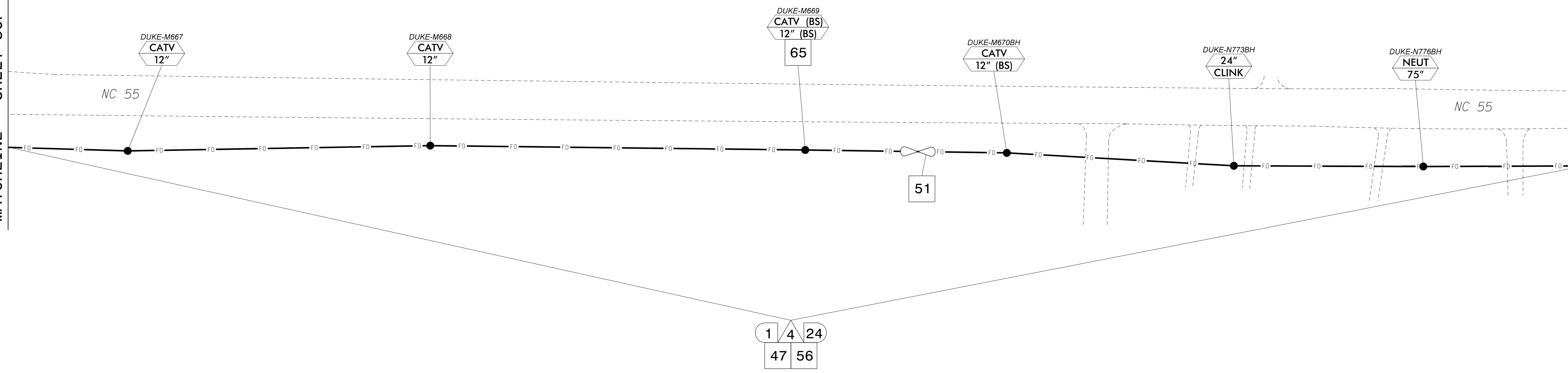


1 INSTALL CATEGORY 6 CABLE	11 INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22 INSTALL NEW CONDUIT INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)	32 MODIFY EXISTING SPLICE ENCLOSURE OR INTERCONNECT CENTER	43 REMOVE EXISTING WOOD POLE	54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	66 BOND RISER TO POLE GROUND
2 INSTALL 3-WIRE COPPER SERVICE ENTRANCE CONDUCTORS	12 INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING	23 INSTALL NEW RISER INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)	33 REMOVE EXISTING SPLICE / HUB / CCTV CABINET	44 INSTALL AERIAL GUY ASSEMBLY	55 LASH CABLE(S) TO EXISTING MESSENGER CABLE	67 BOND TRACER WIRE TO EQUIPMENT GROUND BUS
3 INSTALL 3-WIRE COPPER FEEDER CONDUCTORS	13 INSTALL HEAT SHRINK TUBING RETROFIT KIT	24 INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	34 INSTALL CABINET FOUNDATION	45 INSTALL STANDARD GUY ASSEMBLY	56 LASH CABLE(S) TO NEW MESSENGER CABLE	68 NOT USED
4 INSTALL SMFO CABLE	14 INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25 INSTALL NEW RISER INTO POLE MOUNTED CABINET	35 REMOVE EXISTING CABINET FOUNDATION	46 INSTALL SIDEWALK GUY ASSEMBLY	57 MODIFY EXISTING ELECTRICAL SERVICE	69 HANDLASH AND INSTALL AERIAL CABLE PROTECTOR
5 INSTALL COAXIAL ANTENNA CABLE	15 DIRECTIONAL DRILL CONDUIT	26 INSTALL DIGITAL VIDEO ENCODER	36 INSTALL CCTV CAMERA ASSEMBLY	47 INSTALL MESSENGER CABLE	58 INSTALL NEW ELECTRICAL SERVICE	70 INSTALL EQUIPMENT CABINET DISCONNECT
6 INSTALL FIBER-OPTIC DROP CABLE	16 BORE AND JACK CONDUIT	27 INSTALL NEW ETHERNET EDGE SWITCH IN CABINET	37 INSTALL CCTV CAMERA WOOD POLE	48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59 INSTALL NEW POLE MOUNTED CCTV CABINET (336)	71 INSTALL MANAGED ETHERNET SWITCH
7 INSTALL TRACER WIRE	17 INSTALL CABLE(S) IN EXISTING CONDUIT	28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET ENCLOSURE	38 INSTALL STANDARD SIZE JUNCTION BOX	49 REMOVE EXISTING COMMUNICATIONS CABLE	60 INSTALL NEW CCTV CABINET (NEMA TYPE 4)	72 INSTALL CCTV METAL POLE
8 INSTALL CONDUIT UNDERGROUND	18 INSTALL CABLE(S) IN NEW CONDUIT	29 INSTALL UNDERGROUND SPLICE ENCLOSURE	39 INSTALL SPECIAL-SIZED JUNCTION BOX (36" x 24" x 24")	50 INSTALL SERVICE CONDUCTORS	61 REMOVE EXISTING CCTV CAMERA ASSEMBLY	73 REMOVE EXISTING CCTV METAL POLE
9 INSTALL PVC CONDUIT	19 INSTALL CABLE(S) IN EXISTING RISER(S)	30 INSTALL AERIAL SPLICE ENCLOSURE	40 INSTALL OVER-SIZED JUNCTION BOX	51 INSTALL CABLE STORAGE GUIDE(S) [SNOW SHOE(S)] AND STORE 100 FEET OF EACH CABLE	62 NEW CABINET ENTRANCE INTO NEW FOUNDATION	74 REMOVE WIRELESS COMMUNICATIONS EQUIPMENT
10 INSTALL RIGID, GALVANIZED STEEL CONDUIT	20 INSTALL CABLE(S) IN NEW RISER(S)	31 INSTALL TYPE 332 HUB CABINET	41 REMOVE EXISTING JUNCTION BOX	52A INSTALL DELINEATOR MARKER	63 DRILL/CORE DRILL EXISTING FOUNDATION	75 BACKPULL AND COIL NCDOT ITS CABLE
			42 INSTALL WOOD POLE	52B INSTALL JUNCTION BOX MARKER	64 INTERCEPT AND REROUTE EXISTING CONDUITS	76 INSTALL HUB SWITCH
				53 STORE 30' OF COMMUNICATIONS CABLE (EACH CABLE)	65 BOND MESSENGER TO POLE GROUND	77 INSTALL CELLULAR MODEM

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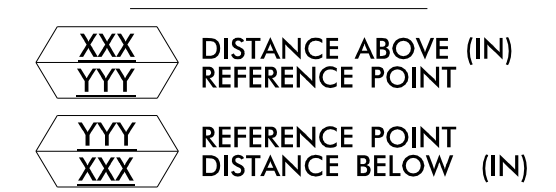
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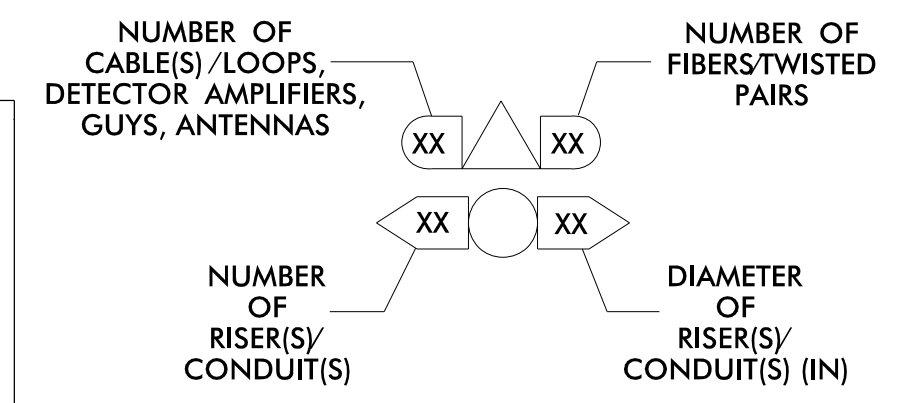
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ATTACHMENT POINT:



CONSTRUCTION NOTE SYMBOLOLOGY KEY



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-8888 NCBES #F-0326

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Prepared for the Offices of:

750 Greenfield Parkway, Garner, NC 27529

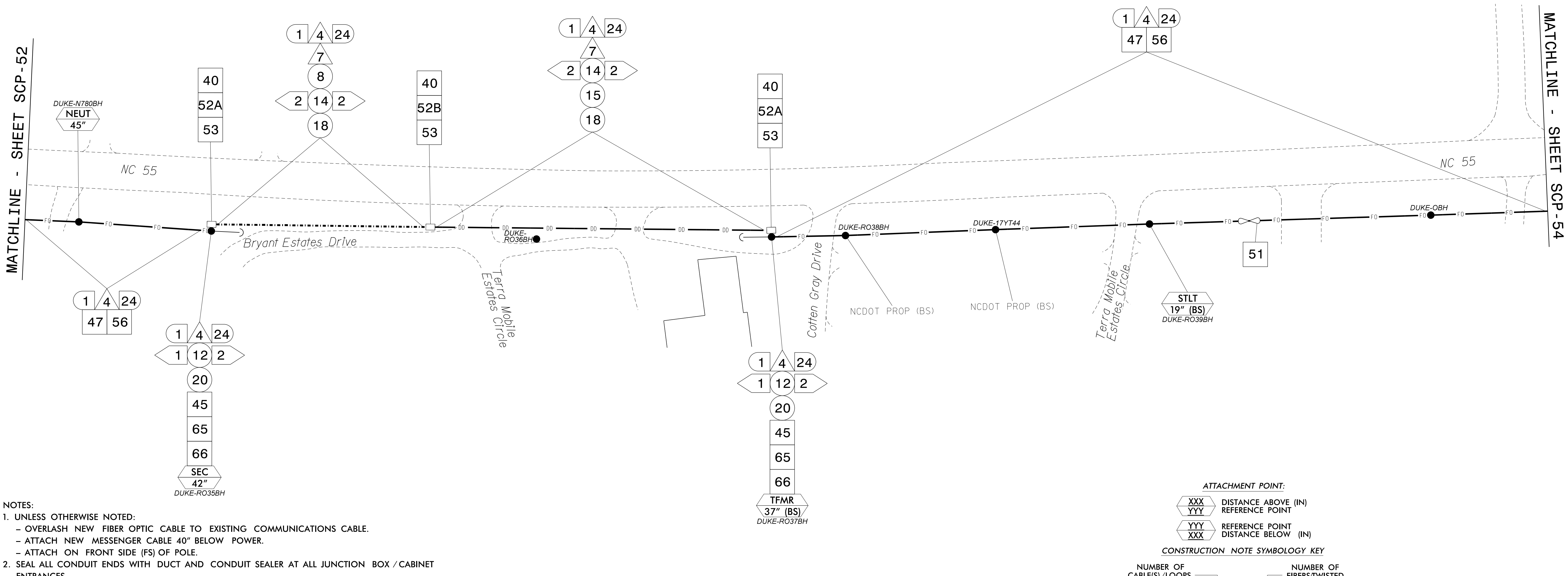
Fuquay-Varina Signal System Cable Routing Plans	
Division 5	Wake County Fuquay-Varina
PLAN DATE: June 2022	REVIEWED BY: MB Toth
PREPARED BY: JT Stiff	REVIEWED BY: AM Encarnacion
REVISIONS	INIT. DATE

SEAL

Anthony Encarnacion 4/14/2023

CADD File Name: CL-47.dgn

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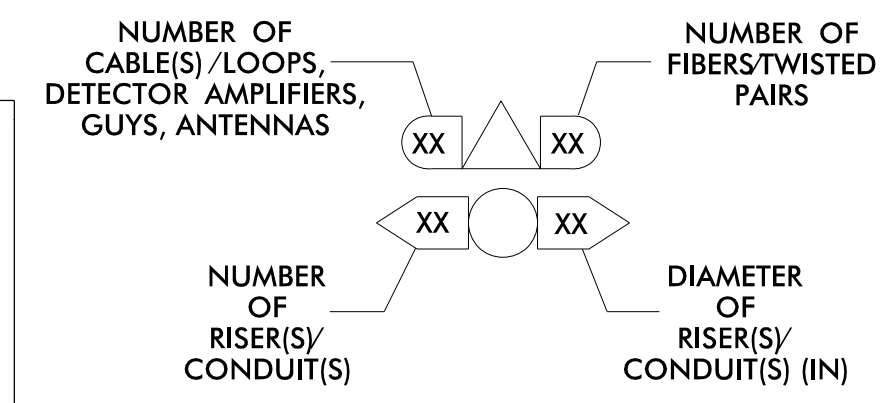
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YYY REFERENCE POINT

YYY REFERENCE POINT DISTANCE BELOW (IN)

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Prepared for the Offices of:

Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

REVISIONS: _____ INIT. DATE

SCALE: 0 50 1"=50'

750 Greenfield Parkway, Garner, NC 27529

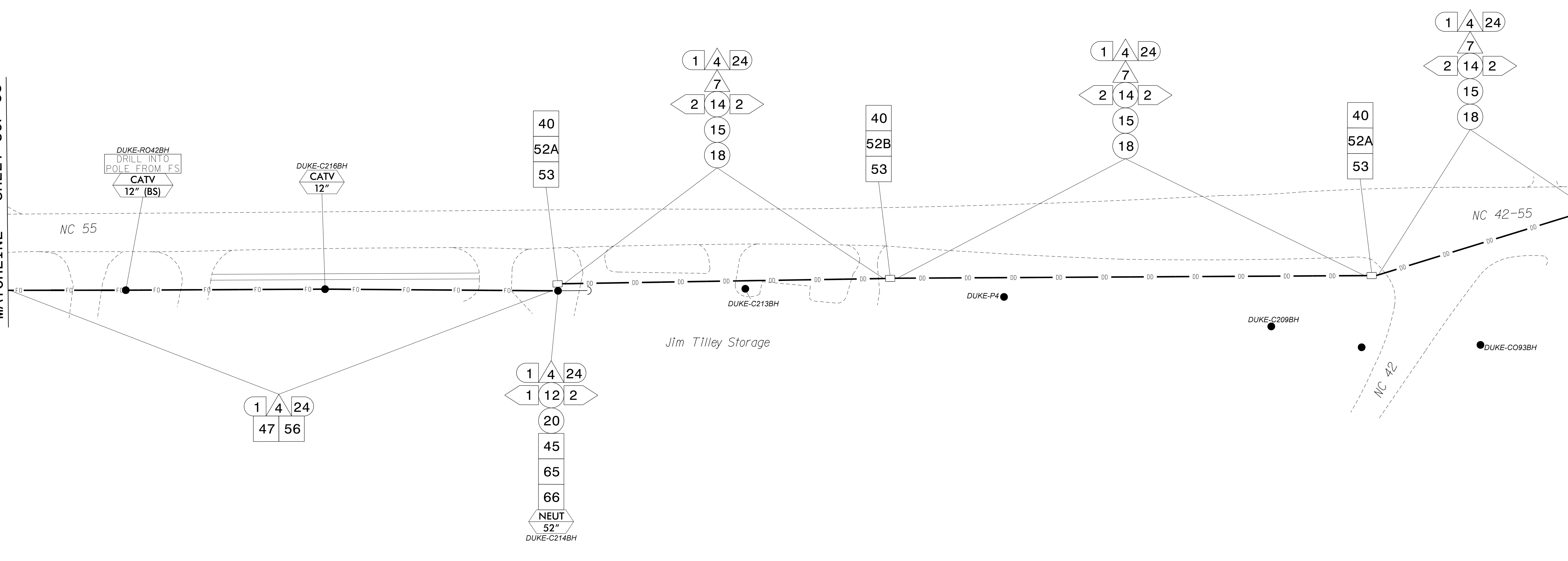
Anthony Encarnacion 4/14/2023

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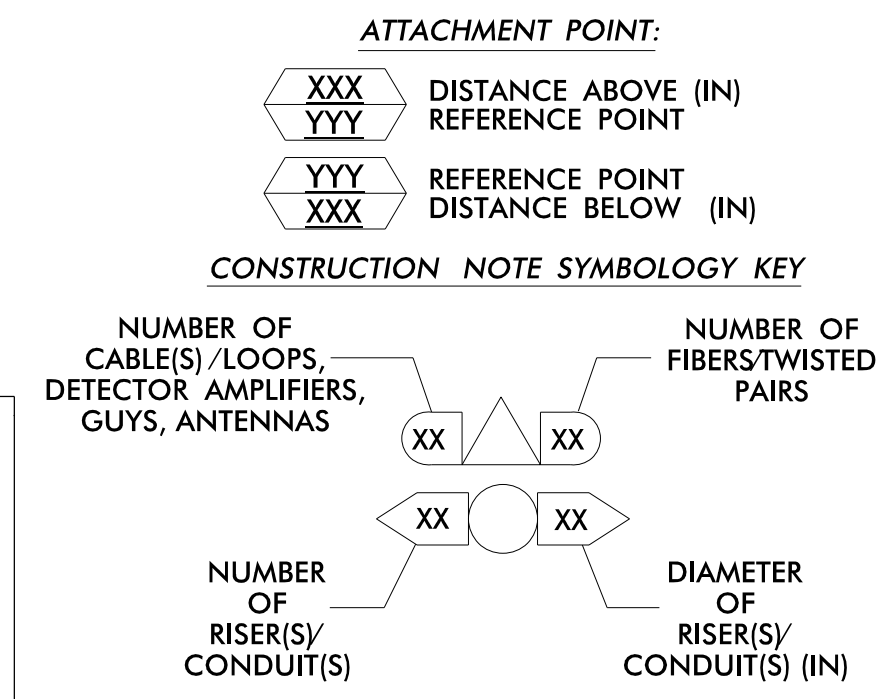
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MATCHLINE - SHEET SCP-53

MATCHLINE - SHEET SCP-17



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Division 5 Wake County Fuquay-Varina

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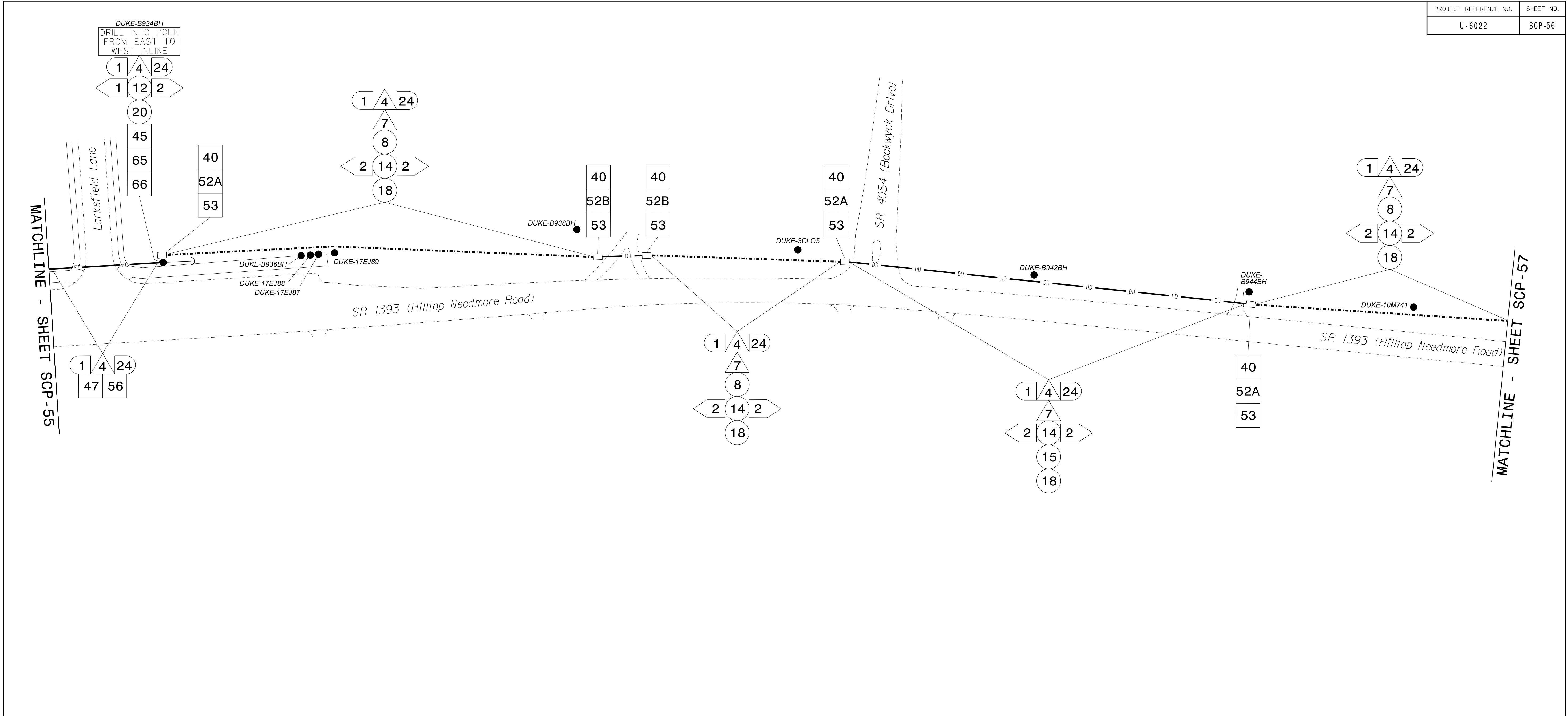
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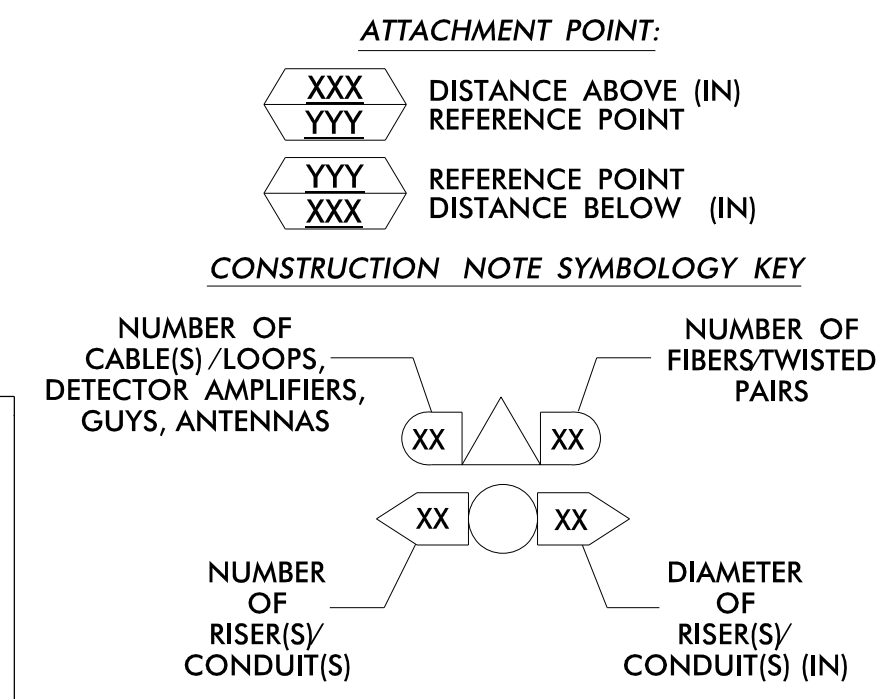
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 - ATTACH ON FRONT SIDE (FS) OF POLE.
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1	INSTALL CATEGORY 6 CABLE	11	INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22	INSTALL NEW CONDUIT INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)	32	MODIFY EXISTING SPLICE ENCLOSURE OR INTERCONNECT CENTER	43	REMOVE EXISTING WOOD POLE	54	LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	66	BOND RISER TO POLE GROUND
2	INSTALL 3-WIRE COPPER SERVICE ENTRANCE CONDUCTORS	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING	23	INSTALL NEW RISER INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)	33	REMOVE EXISTING SPLICE / HUB / CCTV CABINET	44	INSTALL AERIAL GUY ASSEMBLY	55	LASH CABLE(S) TO EXISTING MESSENGER CABLE	67	BOND TRACER WIRE TO EQUIPMENT GROUND BUS
3	INSTALL 3-WIRE COPPER FEEDER CONDUCTORS	13	INSTALL HEAT SHRINK TUBING RETROFIT KIT	24	INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	34	INSTALL CABINET FOUNDATION	45	INSTALL STANDARD GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	NOT USED
4	INSTALL SMFO CABLE	14	INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO POLE MOUNTED CABINET	35	REMOVE EXISTING CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	57	MODIFY EXISTING ELECTRICAL SERVICE	69	HANDLASH AND INSTALL AERIAL CABLE PROTECTOR
5	INSTALL COAXIAL ANTENNA CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL DIGITAL VIDEO ENCODER	36	REMOVE EXISTING CCTV CAMERA ASSEMBLY	47	INSTALL MESSENGER CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	INSTALL EQUIPMENT CABINET DISCONNECT
6	INSTALL FIBER-OPTIC DROP CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW ETHERNET EDGE SWITCH IN CABINET	37	INSTALL CCTV CAMERA WOOD POLE	48	REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59	INSTALL NEW POLE MOUNTED CCTV CABINET (336)	71	INSTALL MANAGED ETHERNET SWITCH
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8	INSTALL CONDUIT UNDERGROUND	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	39	INSTALL SPECIAL-SIZED JUNCTION BOX (36" x 24" x 24")	50	INSTALL SERVICE CONDUCTORS	61	REMOVE EXISTING CCTV CAMERA ASSEMBLY	73	REMOVE EXISTING CCTV METAL POLE
9	INSTALL PVC CONDUIT	19	INSTALL CABLE(S) IN EXISTING RISER(S)	30	INSTALL AERIAL SPLICE ENCLOSURE	40	INSTALL OVER-SIZED JUNCTION BOX	51	INSTALL CABLE STORAGE GUIDE(S) (SNOW SHOE(S) AND STORE 100 FEET OF EACH CABLE)	62	NEW CABINET ENTRANCE INTO NEW FOUNDATION	74	REMOVE WIRELESS COMMUNICATIONS EQUIPMENT
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	20	INSTALL CABLE(S) IN NEW RISER(S)	31	INSTALL TYPE 332 HUB CABINET	41	REMOVE EXISTING JUNCTION BOX	52A	INSTALL DELINEATOR MARKER	63	DRILL/CORE DRILL EXISTING FOUNDATION	75	BACKPULL AND COIL NCDOT ITS CABLE
						42	INSTALL WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	64	INTERCEPT AND REROUTE EXISTING CONDUITS	76	INSTALL HUB SWITCH
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NCBES #F-0326

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Prepared for the Offices of:

 Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

REVISIONS: _____ INIT. DATE

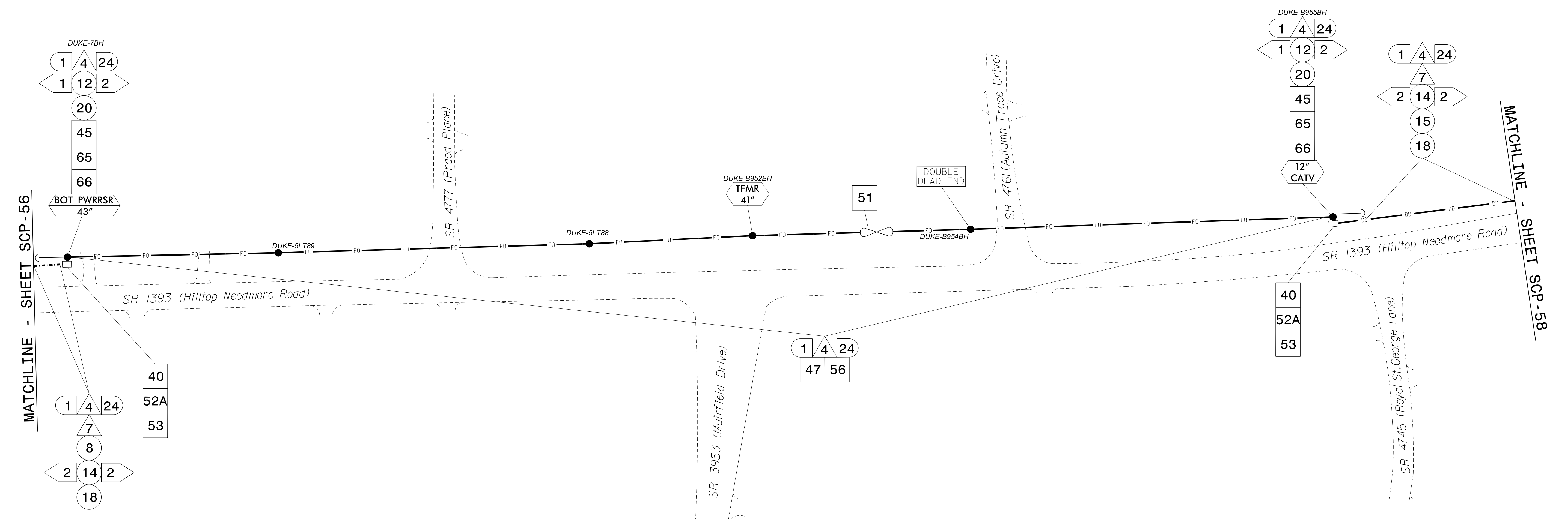
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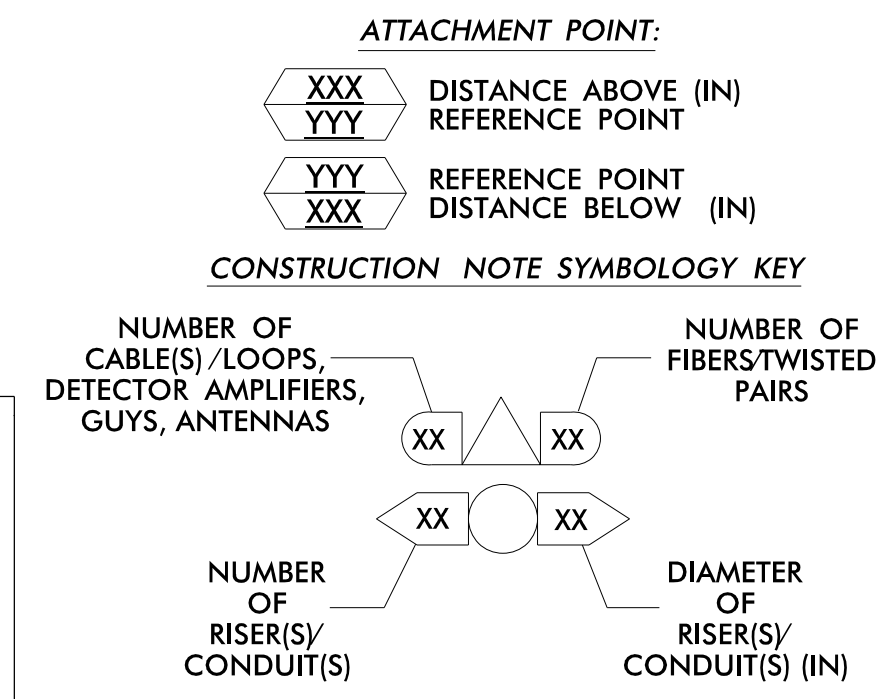
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Prepared for the Offices of:

Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

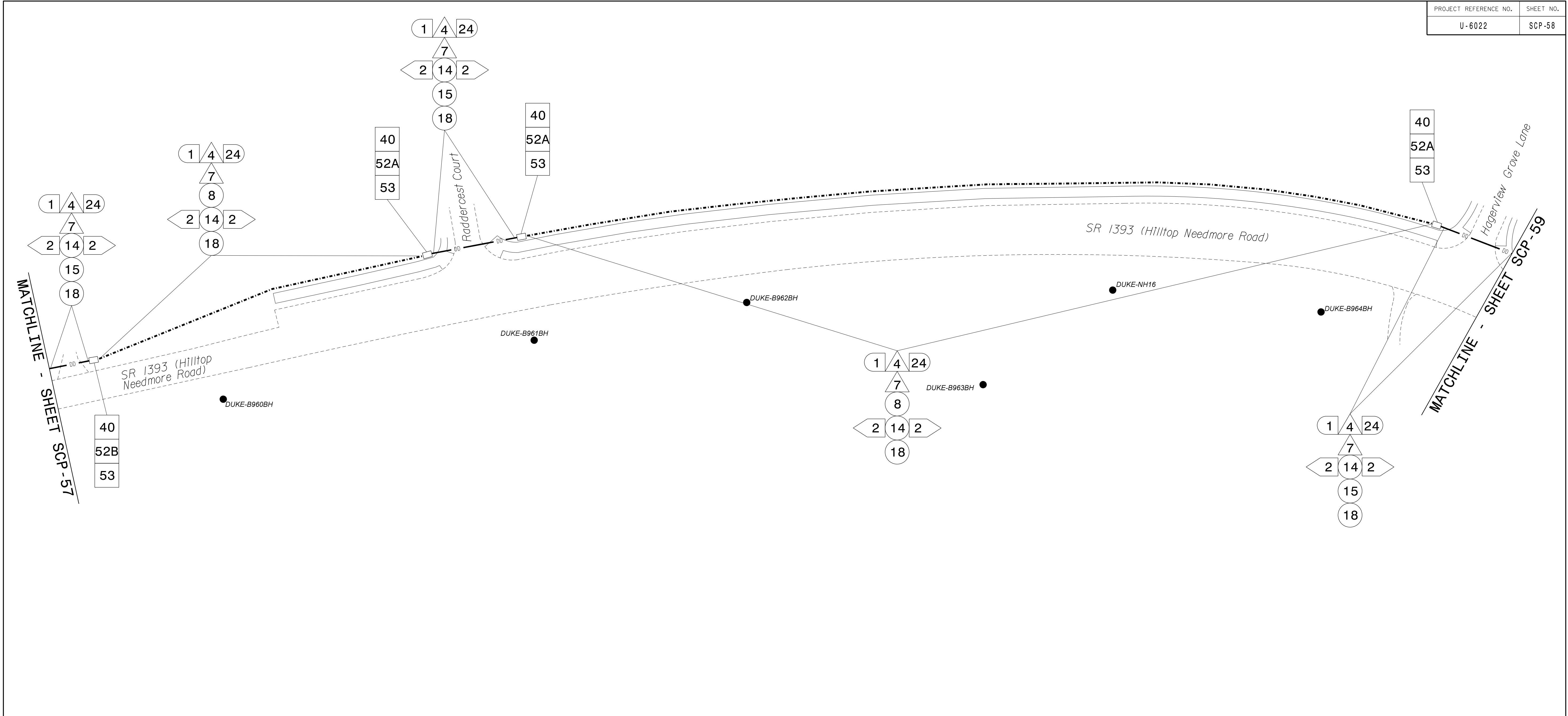
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ATTACHMENT POINT:

XXX
YYY REFERENCE POINT DISTANCE ABOVE (IN)

YYY
XXX REFERENCE POINT DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLY KEY

NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS, ANTENNAS: XX

NUMBER OF FIBER/TWISTED PAIRS: XX

NUMBER OF RISER(S)/CONDUIT(S): XX

DIAMETER OF RISER(S)/CONDUIT(S) (IN): XX

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBES #F-0326

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Prepared for the Offices of:

Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

REVISIONS INIT. DATE

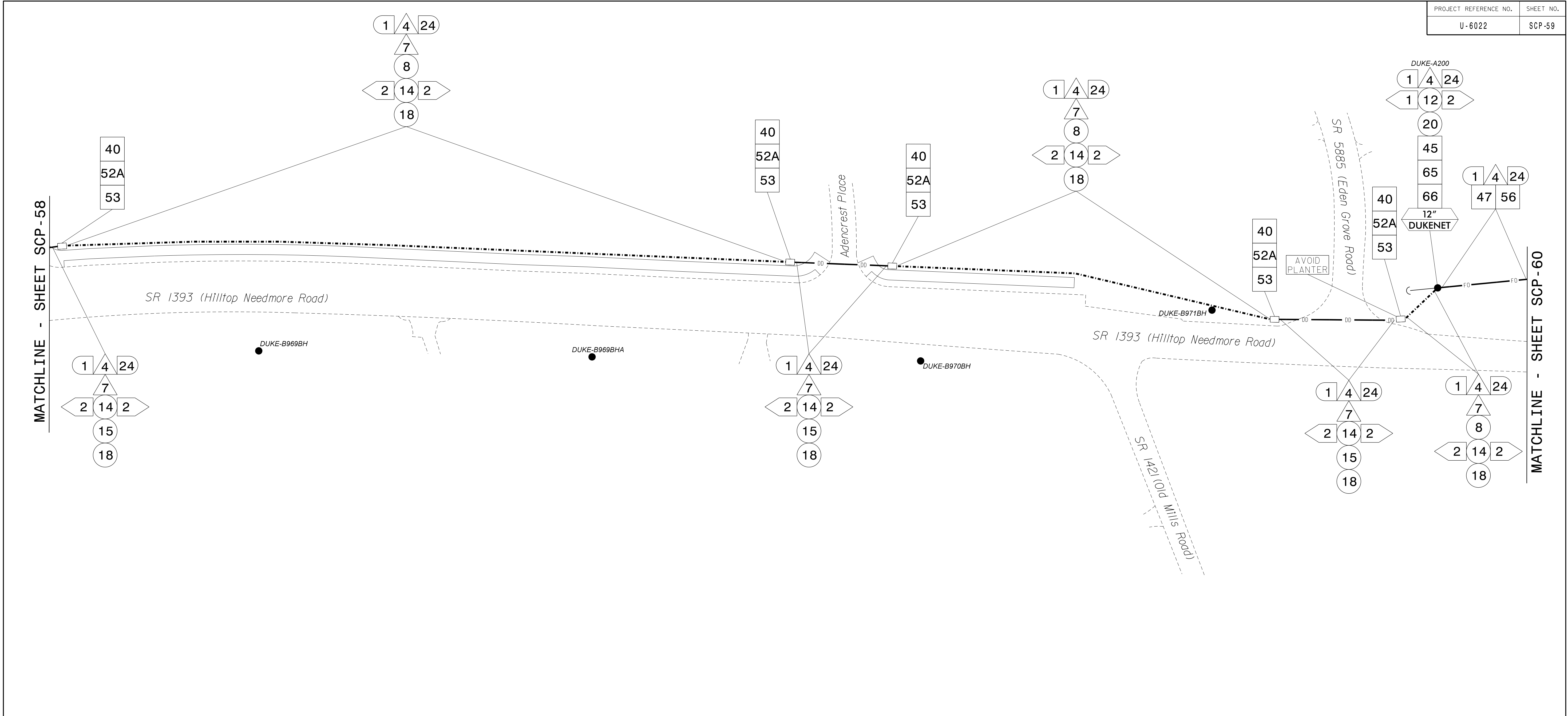
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SEAL: ANTHONY M. ENCARNACION, PROFESSIONAL ENGINEER, SEAL 044476

Signature: Anthony Encarnacion, Date: 4/14/2023

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7	INSTALL TRACER WIRE	17	INSTALL CABLE(S) IN EXISTING CONDUIT	28	INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET	38	INSTALL STANDARD SIZE JUNCTION BOX	49	REMOVE EXISTING COMMUNICATIONS CABLE	60	INSTALL NEW CCTV CABINET (NEMA TYPE 4)	72	INSTALL CCTV METAL POLE
8	INSTALL CONDUIT UNDERGROUND	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	39	INSTALL SPECIAL-SIZED JUNCTION BOX (36" x 24" x 24")	50	INSTALL SERVICE CONDUCTORS	61	REMOVE EXISTING CCTV CAMERA ASSEMBLY	73	REMOVE EXISTING CCTV METAL POLE
9	INSTALL PVC CONDUIT	19	INSTALL CABLE(S) IN EXISTING RISER(S)	30	INSTALL AERIAL SPLICE ENCLOSURE	40	INSTALL OVER-SIZED JUNCTION BOX	51	INSTALL CABLE STORAGE GUIDE(S) [SNOW SHOE(S)] AND STORE 100 FEET OF EACH CABLE	62	NEW CABINET ENTRANCE INTO NEW FOUNDATION	74	REMOVE WIRELESS COMMUNICATIONS EQUIPMENT
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	20	INSTALL CABLE(S) IN NEW RISER(S)	31	INSTALL TYPE 332 HUB CABINET	41	REMOVE EXISTING JUNCTION BOX	52A	INSTALL DELINEATOR MARKER	63	DRILL/CORE DRILL EXISTING FOUNDATION	75	BACKPULL AND COIL NCDOT ITS CABLE
						42	INSTALL WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	64	INTERCEPT AND REROUTE EXISTING CONDUITS	76	INSTALL HUB SWITCH
								53	STORE 30' OF COMMUNICATIONS CABLE (EACH CABLE)	65	BOND MESSENGER TO POLE GROUND	77	INSTALL CELLULAR MODEM

ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN) REFERENCE POINT
 YYY REFERENCE POINT
 YYY REFERENCE POINT DISTANCE BELOW (IN)
 XXX

CONSTRUCTION NOTE SYMBOLY KEY

NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS, ANTENNAS: XX

NUMBER OF FIBER/TWISTED PAIRS: XX

NUMBER OF RISER(S)/CONDUIT(S): XX

DIAMETER OF RISER(S)/CONDUIT(S) (IN): XX

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NGBEES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:
 Fuquay-Varina Signal System Cable Routing Plans

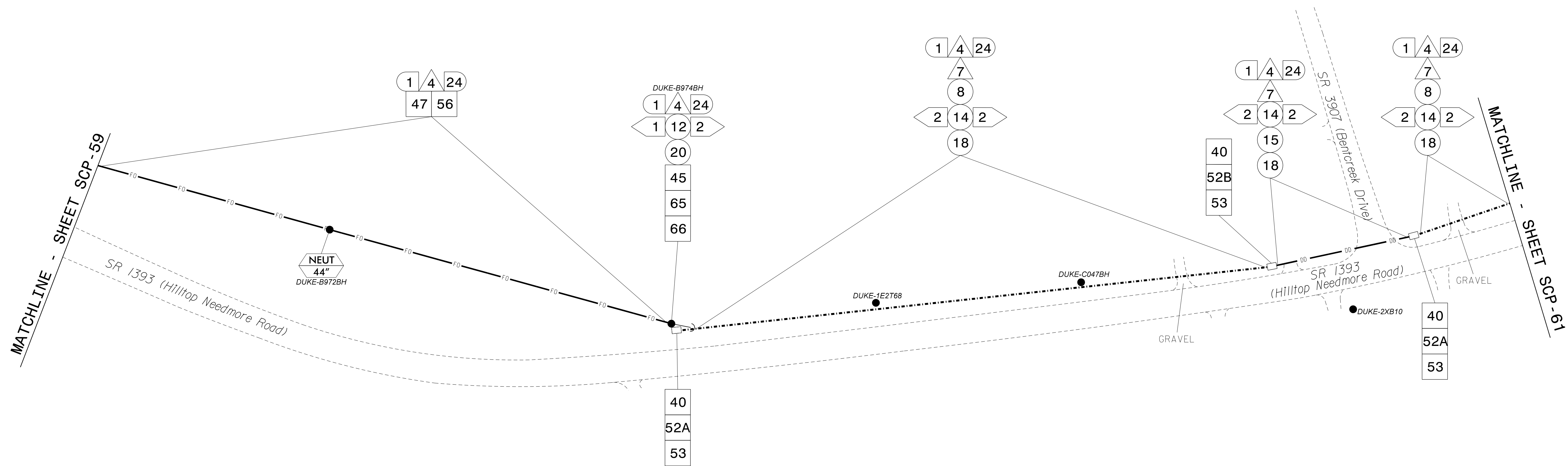
Division 5 Wake County Fuquay-Varina
 PLAN DATE: June 2022 REVIEWED BY: MB Toth
 PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

750 Greenfield Parkway, Garner, NC 27529
 SCALE: 0 50
 1"=50'

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 044476
 ANTHONY M. ENCARNACION

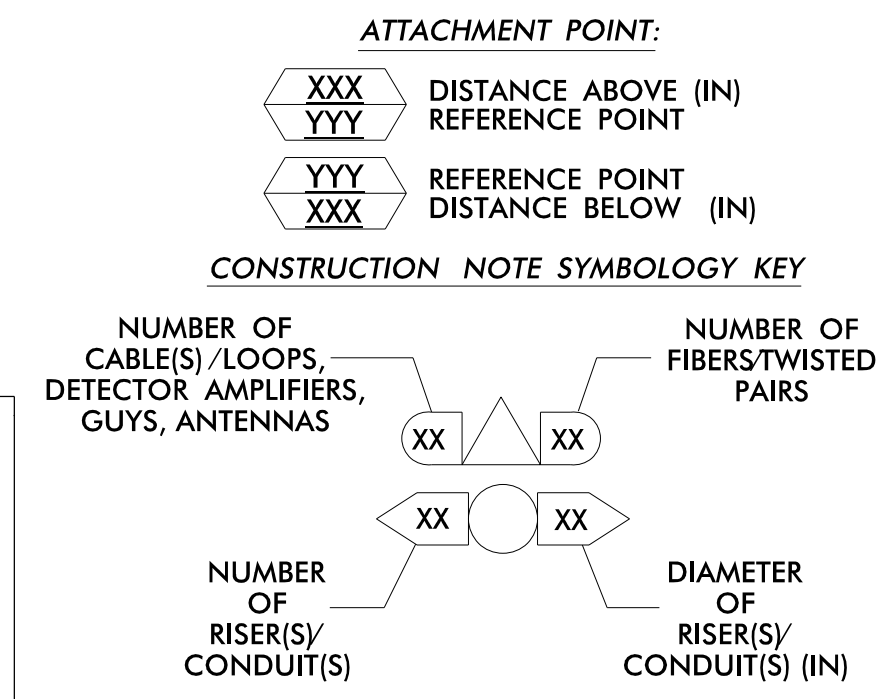
4/14/2023
 DATE
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NOTES:

- UNLESS OTHERWISE NOTED:
 - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER.
 - ATTACH ON FRONT SIDE (FS) OF POLE.
- SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX / CABINET ENTRANCES.



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

750 Greenfield Parkway, Garner, NC 27529

SCALE: 0 50 1"=50'

Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

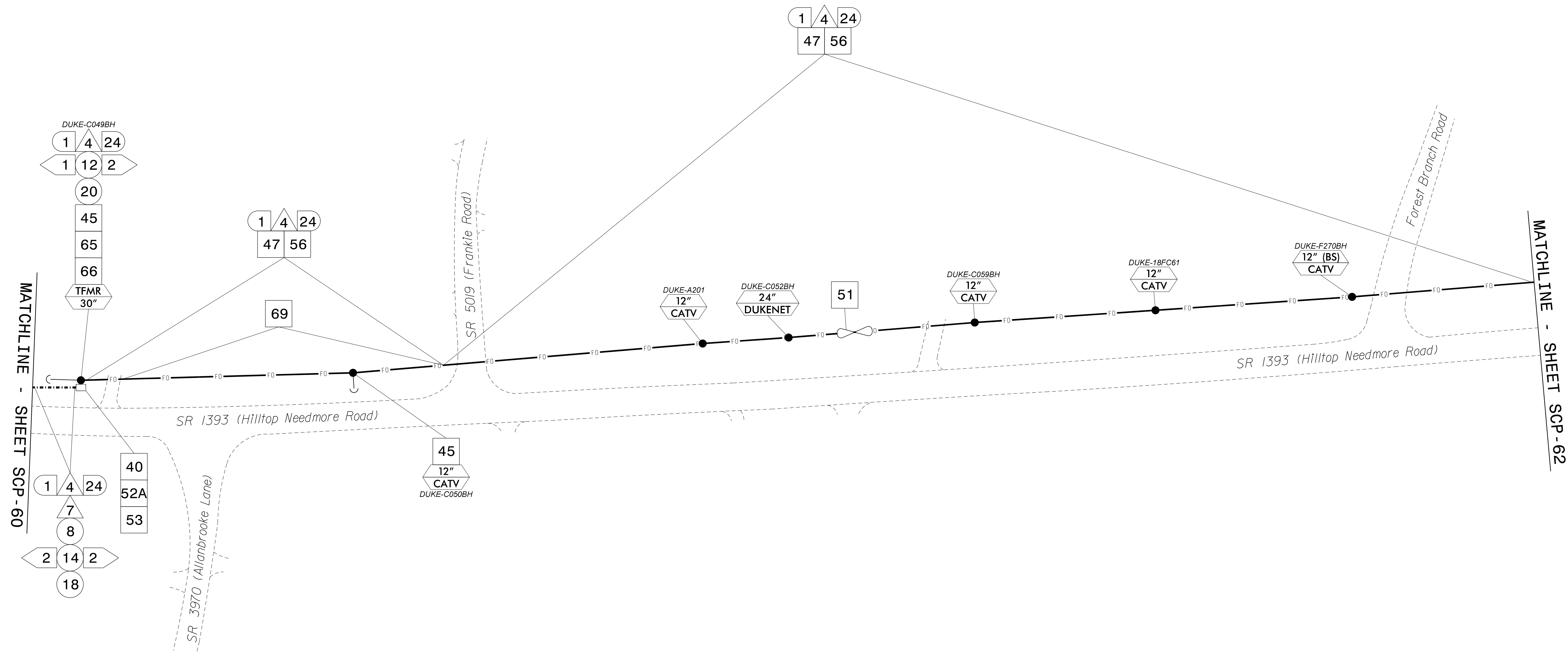
PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

REVISIONS INIT. DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
ANTHONY M. ENCARNACION
044476
DATE: 4/14/2023
CADD File name: CL=55.dgn

1	INSTALL CATEGORY 6 CABLE	11	INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22	INSTALL NEW CONDUIT INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)	32	MODIFY EXISTING SPLICE ENCLOSURE OR INTERCONNECT CENTER	43	REMOVE EXISTING WOOD POLE	54	LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	66	BOND RISER TO POLE GROUND
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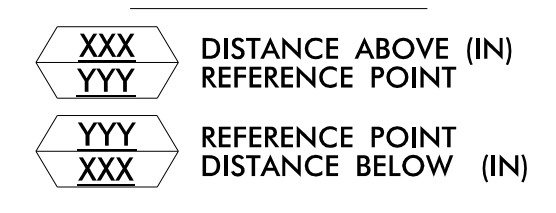
MATCHLINE - SHEET SCP-60

MATCHLINE - SHEET SCP-62

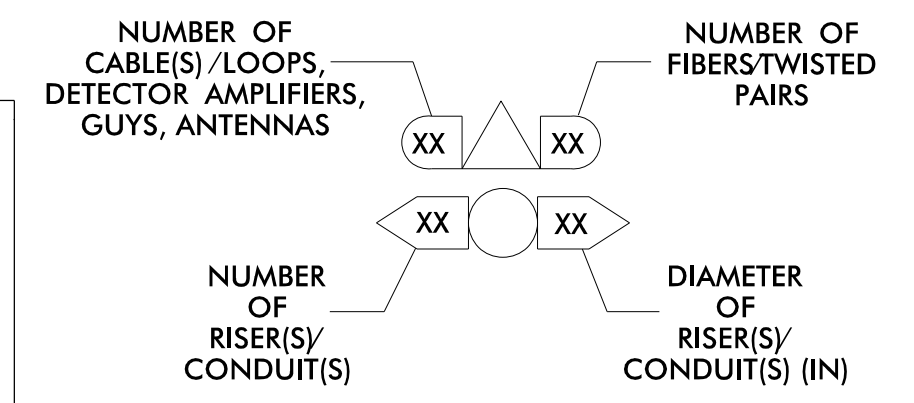
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ATTACHMENT POINT:



CONSTRUCTION NOTE SYMBOLOLOGY KEY



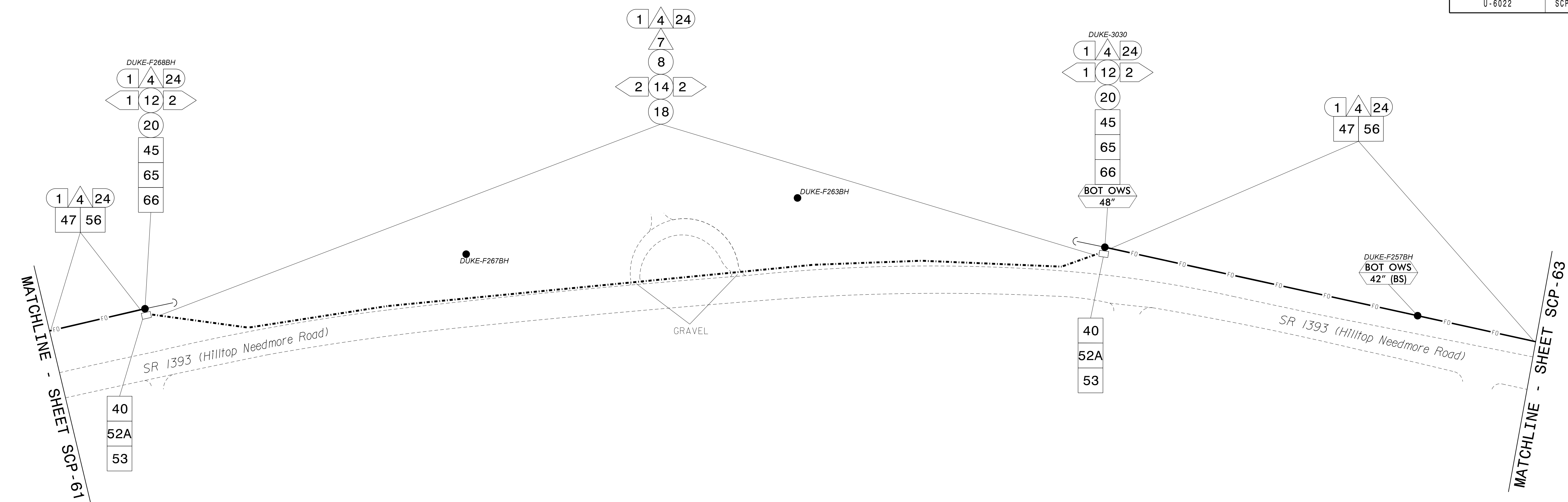
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-8888 NCBES #F-0326

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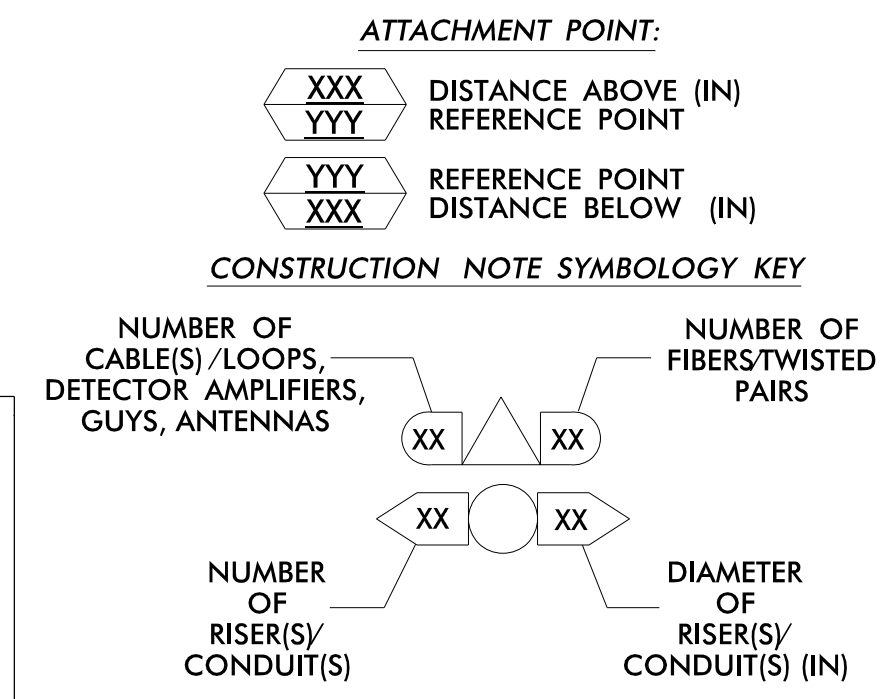
	Fuquay-Varina Signal System Cable Routing Plans	
	Division 5 Wake County Fuquay-Varina PLAN DATE: June 2022 REVIEWED BY: MB Toth PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion	REVISIONS: _____ INIT. DATE _____ _____
Prepared for the Offices of: 	SCALE: 0 50 1"=50' 750 Greenfield Parkway, Garner, NC 27529	

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2 INSTALL 3-WIRE COPPER SERVICE ENTRANCE CONDUCTORS	12 INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING	23 INSTALL NEW RISER INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)	33 REMOVE EXISTING SPLICE / HUB / CCTV CABINET	44 INSTALL AERIAL GUY ASSEMBLY	55 LASH CABLE(S) TO EXISTING MESSENGER CABLE	67 BOND TRACER WIRE TO EQUIPMENT GROUND BUS
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5 INSTALL COAXIAL ANTENNA CABLE	15 DIRECTIONAL DRILL CONDUIT	26 INSTALL DIGITAL VIDEO ENCODER	36 INSTALL CCTV CAMERA ASSEMBLY	47 INSTALL MESSENGER CABLE	58 INSTALL NEW ELECTRICAL SERVICE	70 INSTALL EQUIPMENT CABINET DISCONNECT
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	21 INSTALL CABLE(S) IN EXISTING CABINET ENTRANCE		42 INSTALL WOOD POLE	52B INSTALL JUNCTION BOX MARKER	64 INTERCEPT AND REROUTE EXISTING CONDUITS	76 INSTALL HUB SWITCH
				53 STORE 30' OF COMMUNICATIONS CABLE (EACH CABLE)	65 BOND MESSENGER TO POLE GROUND	77 INSTALL CELLULAR MODEM

16-MAR-2023 16:58 C:\Users\jstiff\OneDrive\Documents\Roads and Bridges\Projects\100063268 Fuquay Varina\Task 11_CL/CL-56.dgn



- NOTES:**
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Prepared for the Offices of:

Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

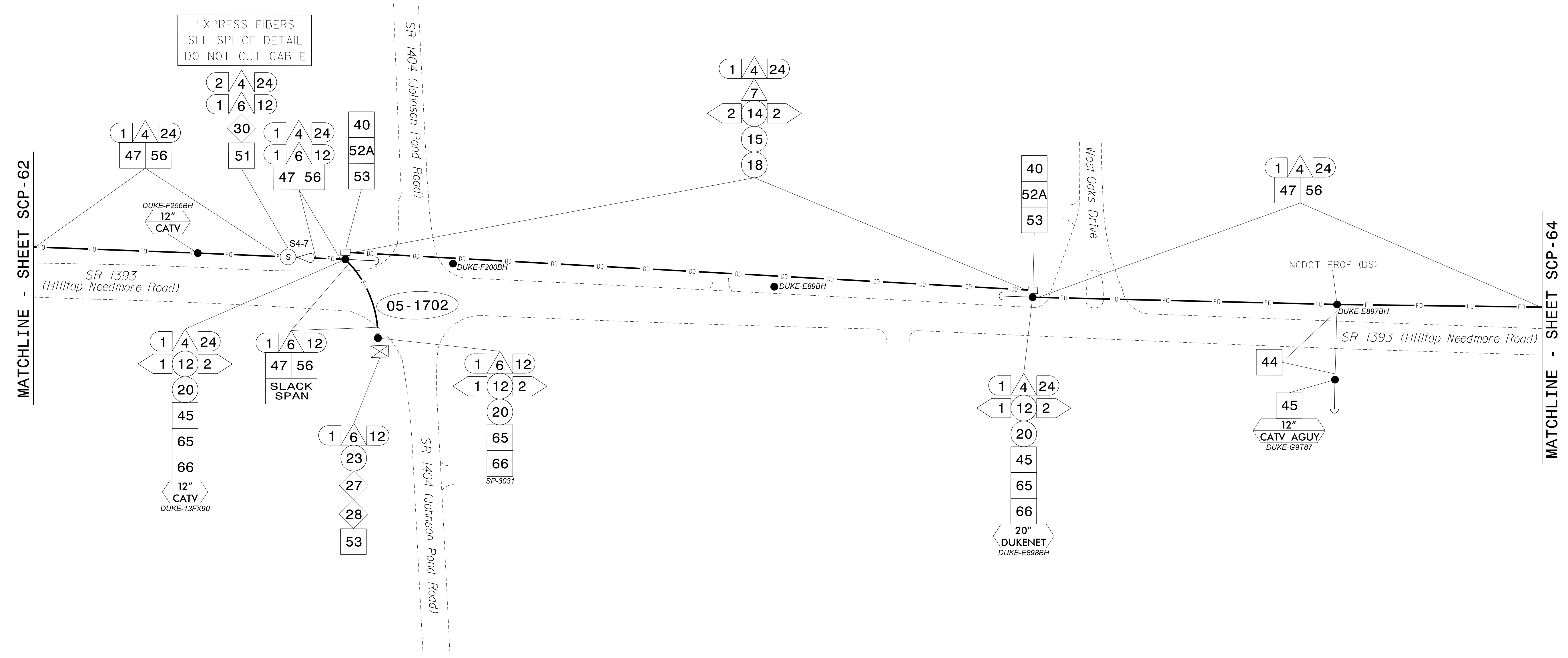
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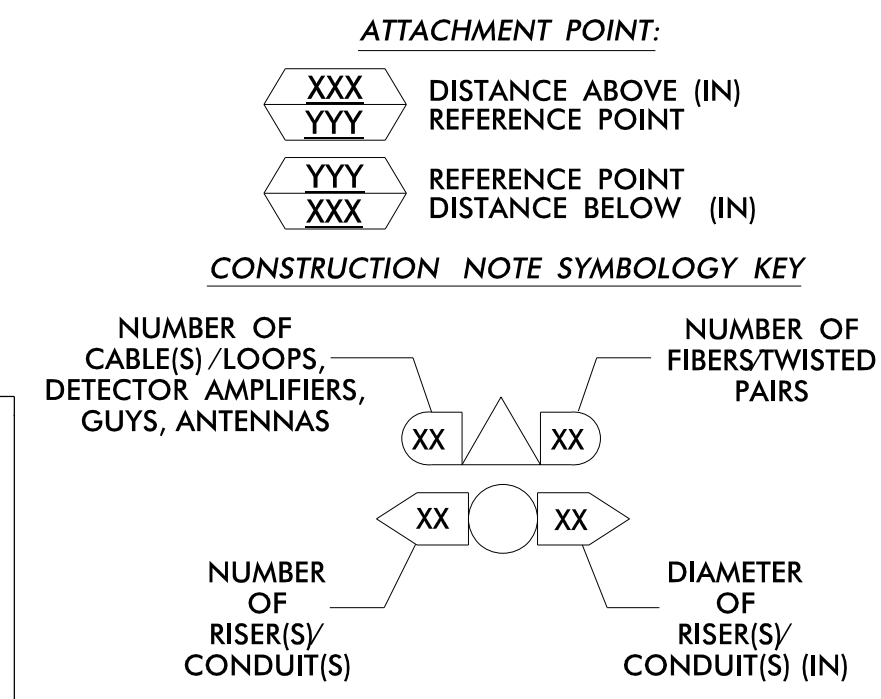
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MATCHLINE - SHEET SCP-62

MATCHLINE - SHEET SCP-64

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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NCBES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

REVISIONS INIT. DATE

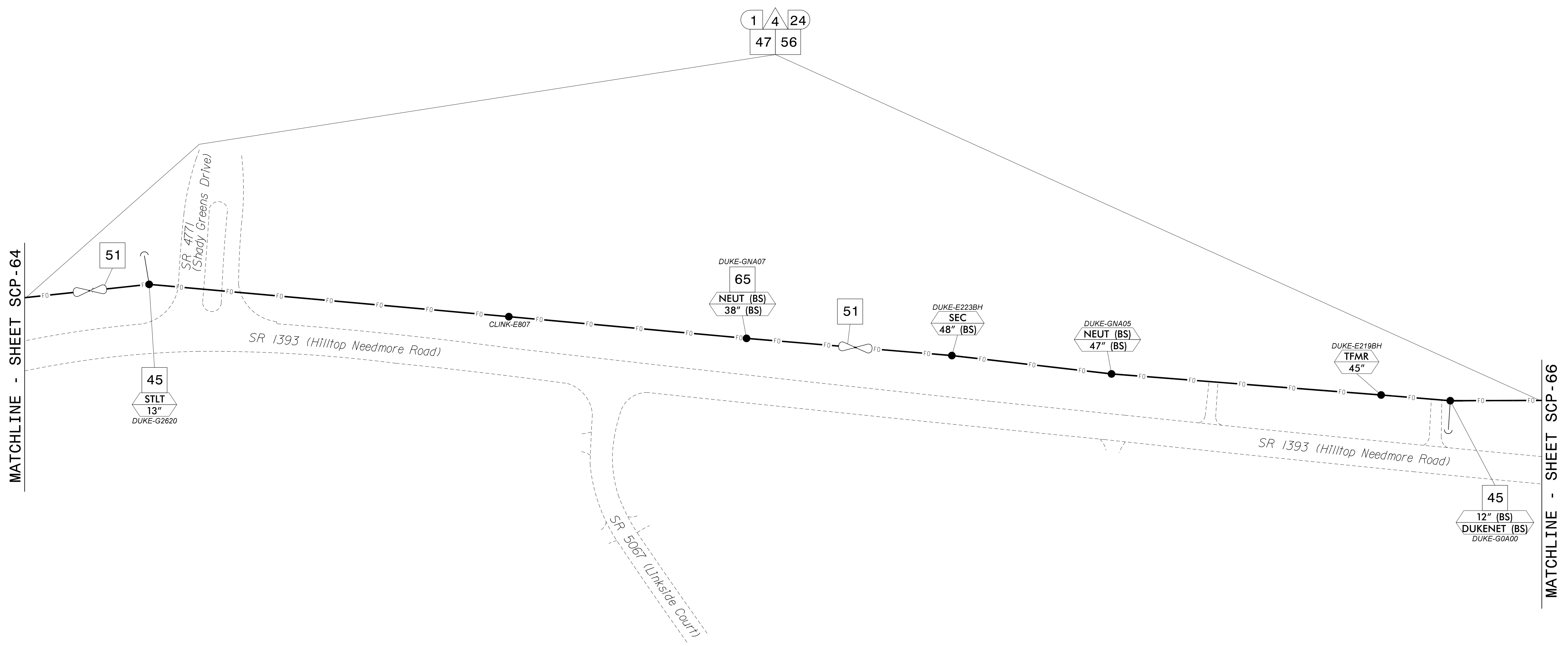
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Seal: SEAL 044476 PROFESSIONAL ENGINEER

Signature: Anthony Encarnacion 4/14/2023

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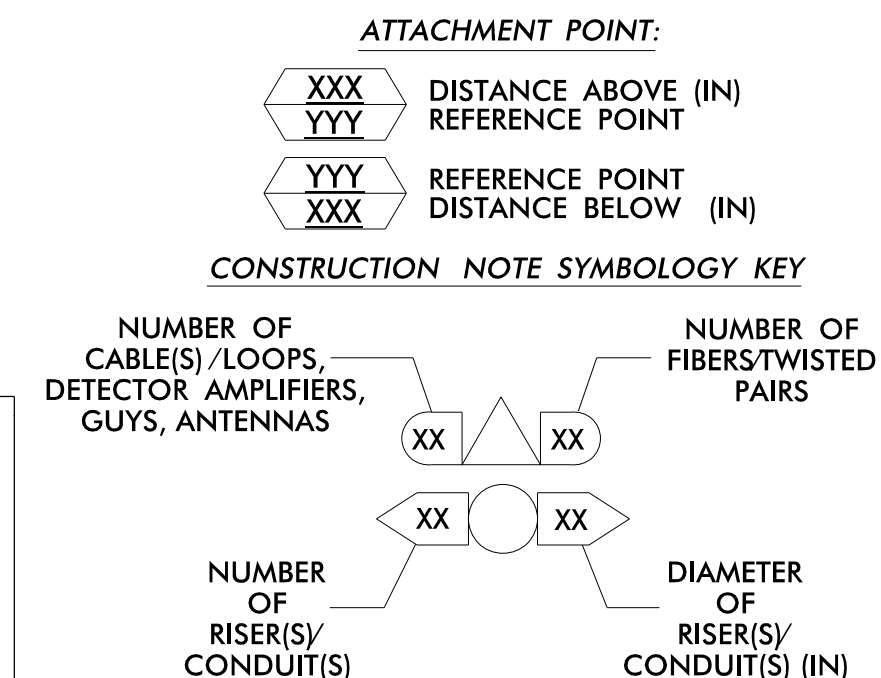
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MATCHLINE - SHEET SCP-64

MATCHLINE - SHEET SCP-66

- NOTES:**
- UNLESS OTHERWISE NOTED:
 - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER.
 - ATTACH ON FRONT SIDE (FS) OF POLE.
 - SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX / CABINET ENTRANCES.



1. INSTALL CATEGORY 6 CABLE	11. INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22. INSTALL NEW CONDUIT INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)	32. MODIFY EXISTING SPLICE ENCLOSURE OR INTERCONNECT CENTER	43. REMOVE EXISTING WOOD POLE	54. LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	66. BOND RISER TO POLE GROUND
2. INSTALL 3-WIRE COPPER SERVICE ENTRANCE CONDUCTORS	12. INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING	23. INSTALL NEW RISER INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)	33. REMOVE EXISTING SPLICE /HUB / CCTV CABINET	44. INSTALL AERIAL GUY ASSEMBLY	55. LASH CABLE(S) TO EXISTING MESSENGER CABLE	67. BOND TRACER WIRE TO EQUIPMENT GROUND BUS
3. INSTALL 3-WIRE COPPER FEEDER CONDUCTORS	13. INSTALL HEAT SHRINK TUBING RETROFIT KIT	24. INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	34. INSTALL CABINET FOUNDATION	45. INSTALL STANDARD GUY ASSEMBLY	56. LASH CABLE(S) TO NEW MESSENGER CABLE	68. NOT USED
4. INSTALL SMFO CABLE	14. INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25. INSTALL NEW RISER INTO POLE MOUNTED CABINET	35. REMOVE EXISTING CABINET FOUNDATION	46. INSTALL SIDEWALK GUY ASSEMBLY	57. MODIFY EXISTING ELECTRICAL SERVICE	69. HANDLASH AND INSTALL AERIAL CABLE PROTECTOR
5. INSTALL COAXIAL ANTENNA CABLE	15. DIRECTIONAL DRILL CONDUIT	26. INSTALL DIGITAL VIDEO ENCODER	36. INSTALL CCTV CAMERA ASSEMBLY	47. INSTALL MESSENGER CABLE	58. INSTALL NEW ELECTRICAL SERVICE	70. INSTALL EQUIPMENT CABINET DISCONNECT
6. INSTALL FIBER-OPTIC DROP CABLE	16. BORE AND JACK CONDUIT	27. INSTALL NEW ETHERNET EDGE SWITCH IN CABINET	37. INSTALL CCTV CAMERA WOOD POLE	48. REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59. INSTALL NEW POLE MOUNTED CCTV CABINET (336)	71. INSTALL MANAGED ETHERNET SWITCH
7. INSTALL TRACER WIRE	17. INSTALL CABLE(S) IN EXISTING CONDUIT	28. INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET	38. INSTALL STANDARD SIZE JUNCTION BOX	49. REMOVE EXISTING COMMUNICATIONS CABLE	60. INSTALL NEW CCTV CABINET (NEMA TYPE 4)	72. INSTALL CCTV METAL POLE
8. INSTALL CONDUIT UNDERGROUND	18. INSTALL CABLE(S) IN NEW CONDUIT	29. INSTALL UNDERGROUND SPLICE ENCLOSURE	39. INSTALL SPECIAL-SIZED JUNCTION BOX (36" x 24" x 24")	50. INSTALL SERVICE CONDUCTORS	61. REMOVE EXISTING CCTV CAMERA ASSEMBLY	73. REMOVE EXISTING CCTV METAL POLE
9. INSTALL PVC CONDUIT	19. INSTALL CABLE(S) IN EXISTING RISER(S)	30. INSTALL AERIAL SPLICE ENCLOSURE	40. INSTALL OVER-SIZED JUNCTION BOX	51. INSTALL CABLE STORAGE GUIDE(S) (SNOW SHOE(S) AND STORE 100 FEET OF EACH CABLE)	62. NEW CABINET ENTRANCE INTO NEW FOUNDATION	74. REMOVE WIRELESS COMMUNICATIONS EQUIPMENT
10. INSTALL RIGID, GALVANIZED STEEL CONDUIT	20. INSTALL CABLE(S) IN NEW RISER(S)	31. INSTALL TYPE 332 HUB CABINET	41. REMOVE EXISTING JUNCTION BOX	52A. INSTALL DELINEATOR MARKER	63. DRILL/CORE DRILL EXISTING FOUNDATION	75. BACKPULL AND COIL NCDOT ITS CABLE
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NCBES #F-0326

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Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

REVISIONS: INIT. DATE

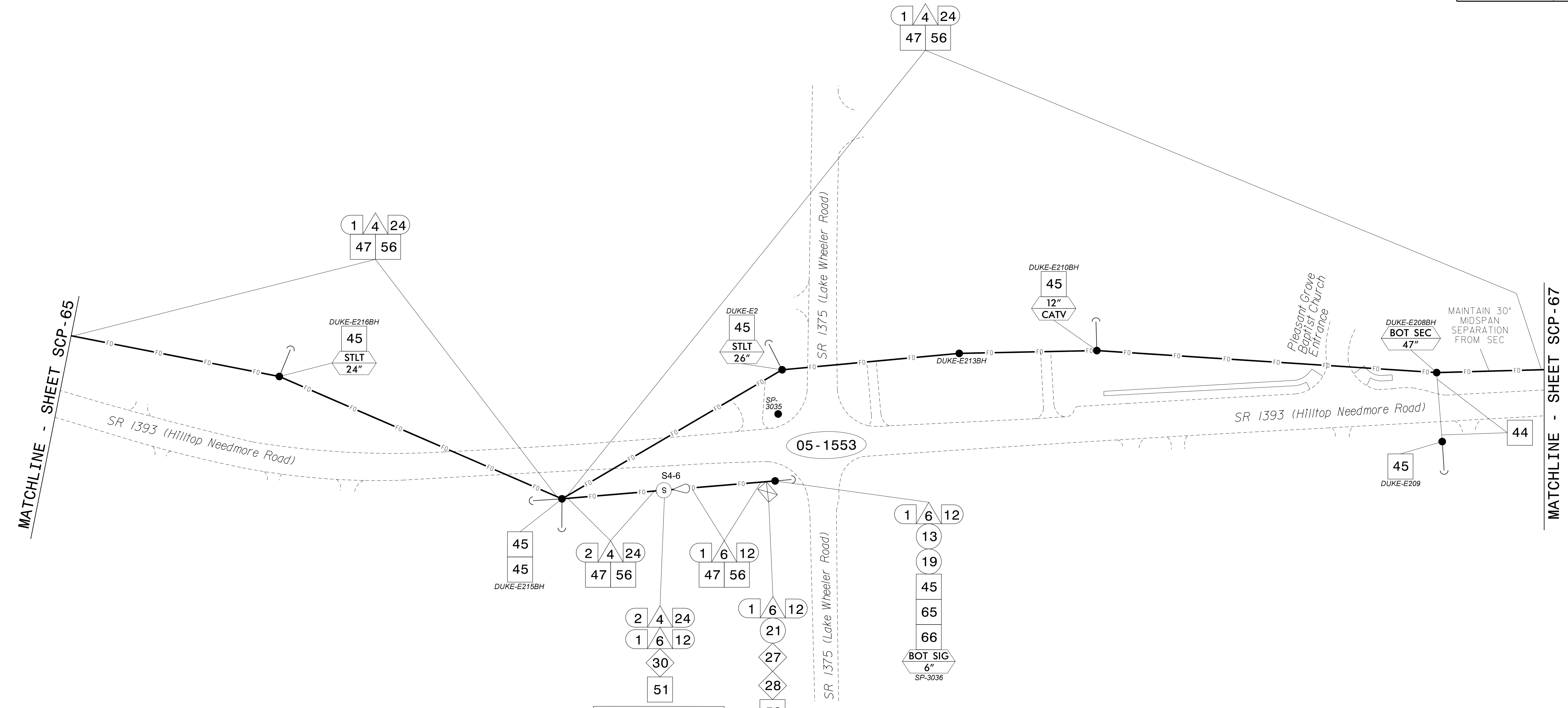
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Seal: Anthony Encarnacion, Professional Engineer, No. 044476

DATE: 4/14/2023

CADD File Name: CL-60.dgn

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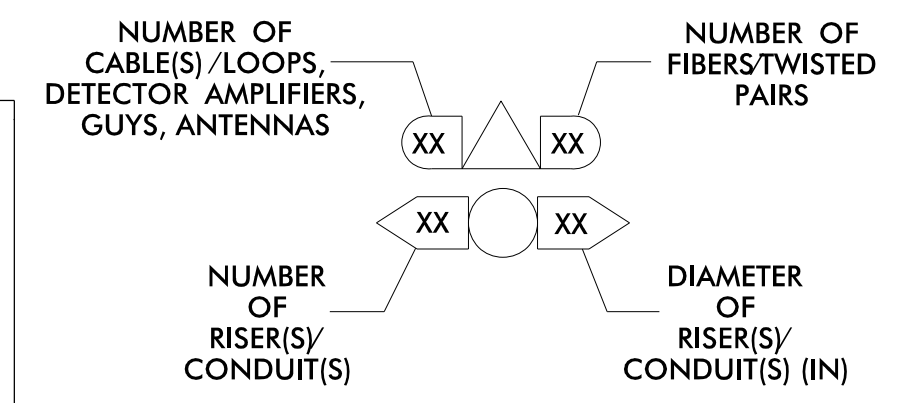
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EXPRESS FIBERS SEE SPLICE DETAIL DO NOT CUT CABLE

ATTACHMENT POINT:

XXX REFERENCE POINT
YYY DISTANCE ABOVE (IN) REFERENCE POINT
XXX REFERENCE POINT DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLY KEY



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-8888 NCBEES #F-0326

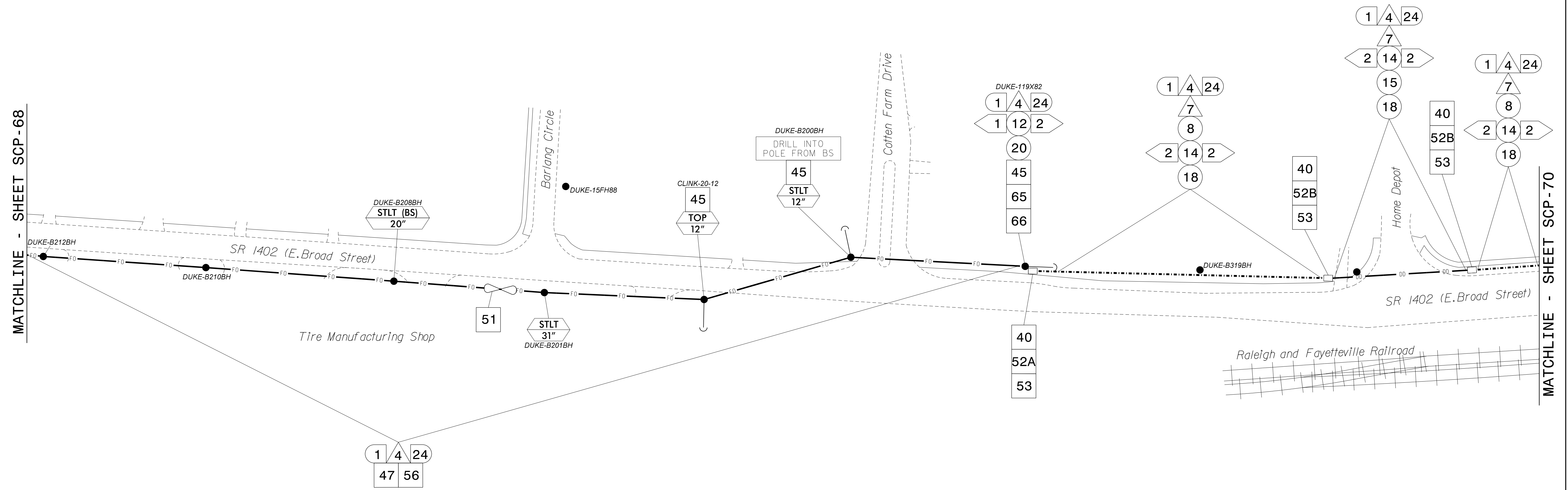
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Prepared for the Offices of:		SEAL	
		Fuquay-Varina Signal System Cable Routing Plans	
		Division 5 Wake County Fuquay-Varina	
PLAN DATE: June 2022	REVIEWED BY: MB Toth	DATE: 4/14/2023	
PREPARED BY: JT Stiff	REVIEWED BY: AM Encarnacion	DATE:	
750 Greenfield Parkway, Garner, NC 27529		SCALE: 1"=50'	
CADD File Name: CL-61.dgn		DATE:	

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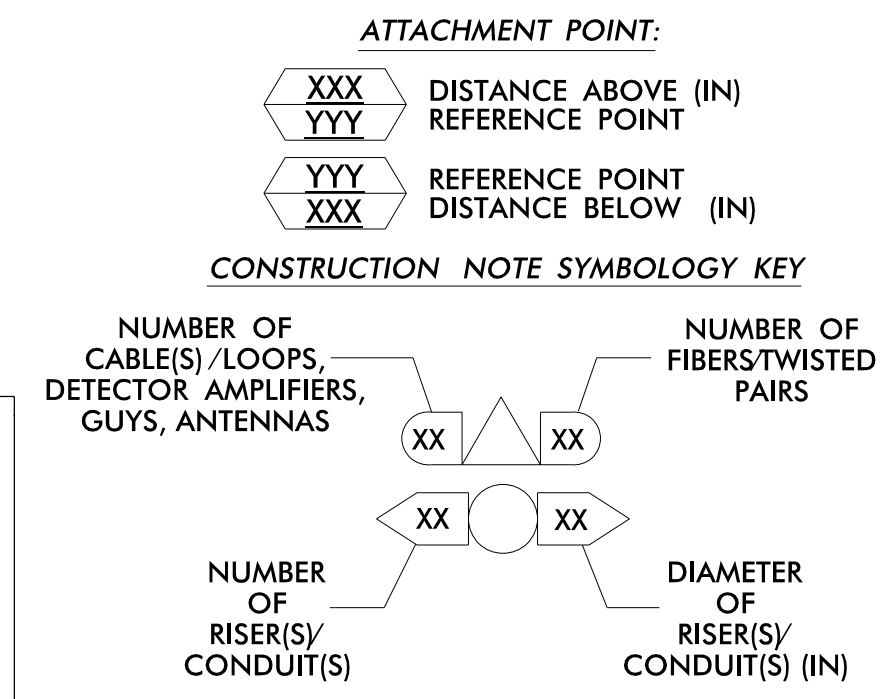
MATCHLINE - SHEET SCP-68

MATCHLINE - SHEET SCP-70



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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NCBES #F-0326

Prepared for the Offices of:

Fuquay-Varina Signal System Cable Routing Plans

Division 5	Wake County	Fuquay-Varina
PLAN DATE: June 2022	REVIEWED BY: MB Toth	
PREPARED BY: JT Stiff	REVIEWED BY: AM Encarnacion	

750 Greenfield Parkway, Garner, NC 27529

SCALE: 1"=50'

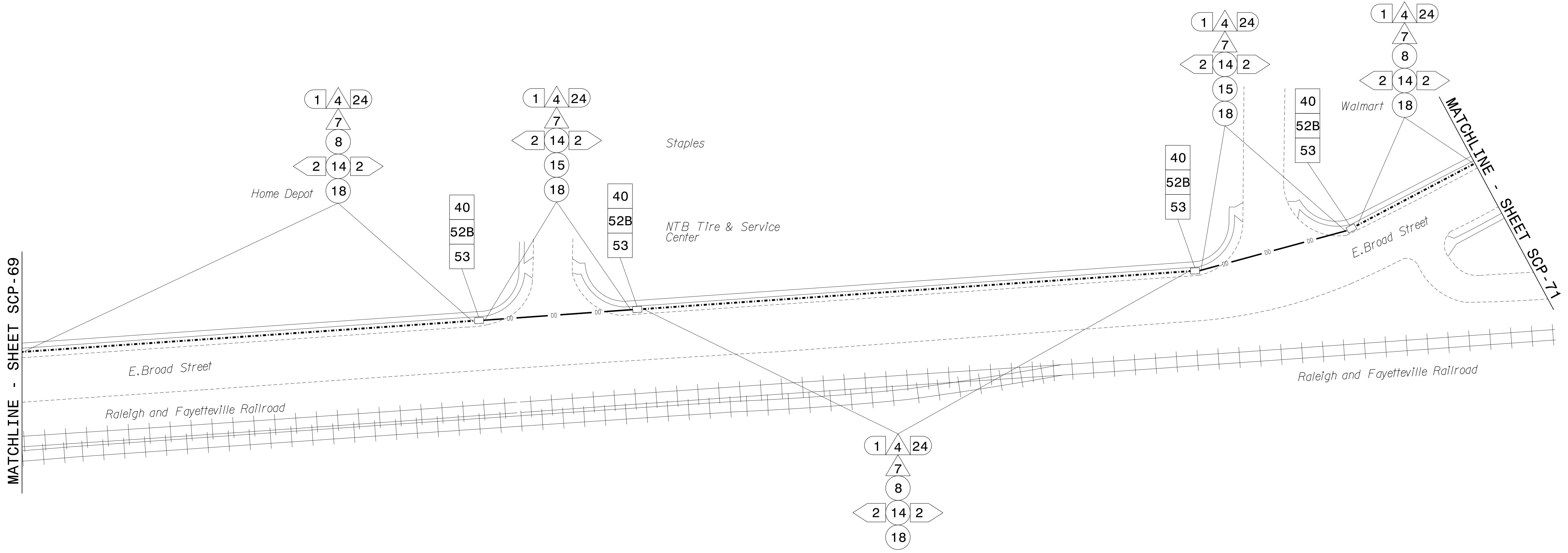
4/14/2023

Anthony Encarnacion

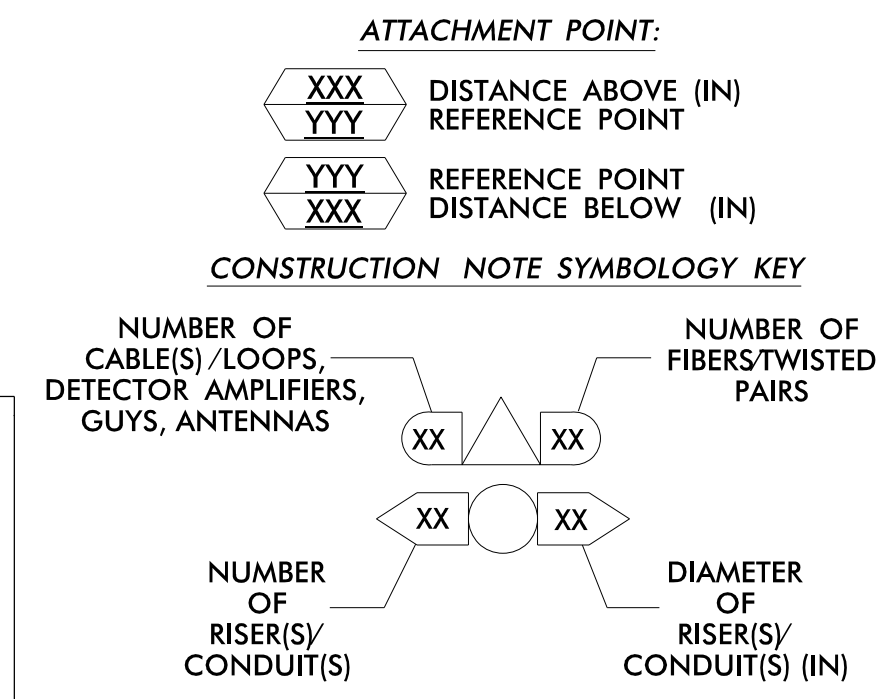
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Prepared for the Offices of:

Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

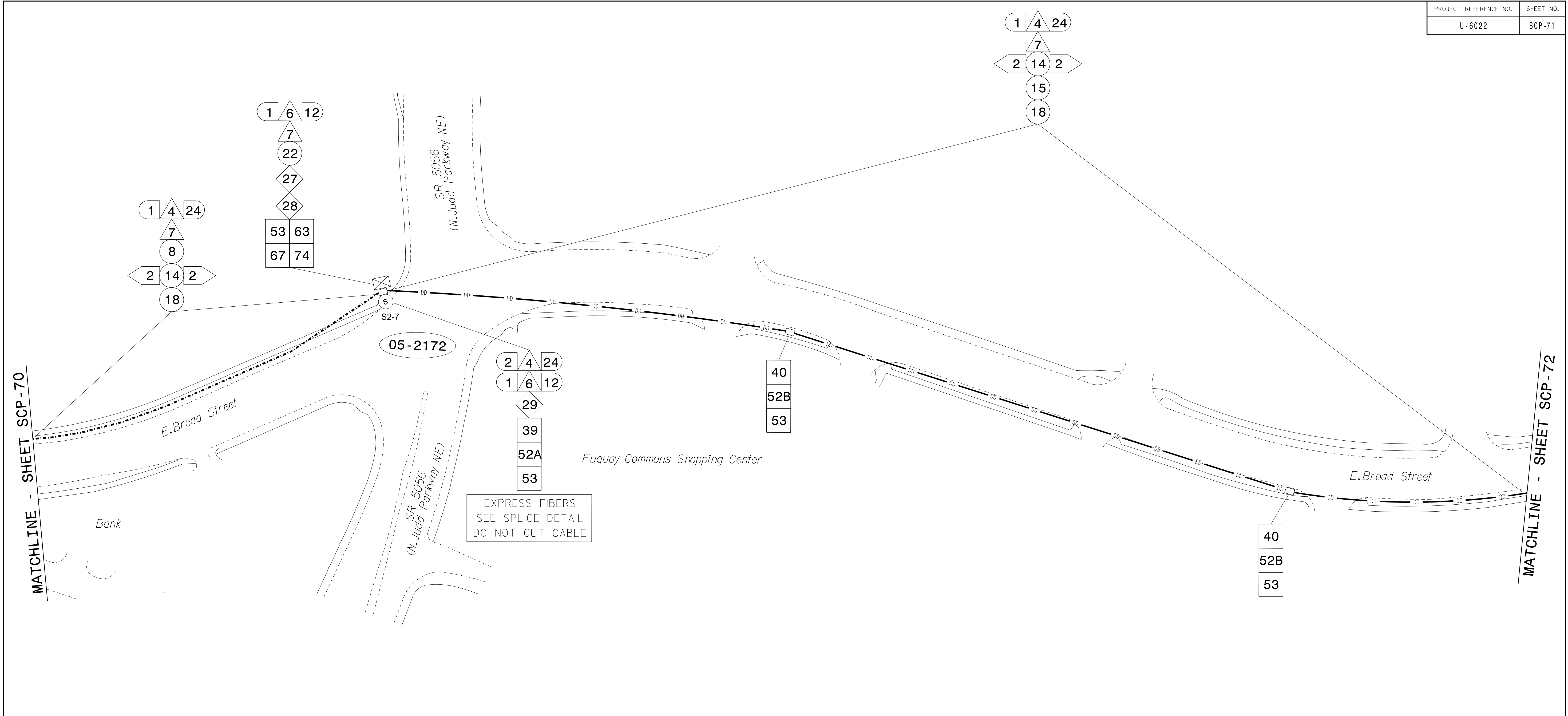
REVISIONS: _____ INIT. DATE

SCALE: 1"=50'

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CADD File name: CL-65.dgn

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3	INSTALL 3-WIRE COPPER FEEDER CONDUCTORS	13	INSTALL HEAT SHRINK TUBING RETROFIT KIT	24	INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	34	INSTALL CABINET FOUNDATION	45	INSTALL STANDARD GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	NOT USED
4	INSTALL SMFO CABLE	14	INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO POLE MOUNTED CABINET	35	REMOVE EXISTING CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	57	MODIFY EXISTING ELECTRICAL SERVICE	69	HANDLASH AND INSTALL AERIAL CABLE PROTECTOR
5	INSTALL COAXIAL ANTENNA CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL DIGITAL VIDEO ENCODER	36	INSTALL CCTV CAMERA ASSEMBLY	47	INSTALL MESSENGER CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	INSTALL EQUIPMENT CABINET DISCONNECT
6	INSTALL FIBER-OPTIC DROP CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW ETHERNET EDGE SWITCH IN CABINET	37	INSTALL CCTV CAMERA WOOD POLE	48	REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59	INSTALL NEW POLE MOUNTED CCTV CABINET (336)	71	INSTALL MANAGED ETHERNET SWITCH
7	INSTALL TRACER WIRE	17	INSTALL CABLE(S) IN EXISTING CONDUIT	28	INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET	38	INSTALL STANDARD SIZE JUNCTION BOX	49	REMOVE EXISTING COMMUNICATIONS CABLE	60	INSTALL NEW CCTV CABINET (NEMA TYPE 4)	72	INSTALL CCTV METAL POLE
8	INSTALL CONDUIT UNDERGROUND	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	39	INSTALL SPECIAL-SIZED JUNCTION BOX (36" x 24" x 24")	50	INSTALL SERVICE CONDUCTORS	61	REMOVE EXISTING CCTV CAMERA ASSEMBLY	73	REMOVE EXISTING CCTV METAL POLE
9	INSTALL PVC CONDUIT	19	INSTALL CABLE(S) IN EXISTING RISER(S)	30	INSTALL AERIAL SPLICE ENCLOSURE	40	INSTALL OVER-SIZED JUNCTION BOX	51	INSTALL CABLE STORAGE GUIDE(S) (SNOW SHOE(S) AND STORE 100 FEET OF EACH CABLE)	62	NEW CABINET ENTRANCE INTO NEW FOUNDATION	74	REMOVE WIRELESS COMMUNICATIONS EQUIPMENT
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CABINET ENTRANCE	31	INSTALL TYPE 332 HUB CABINET	41	REMOVE EXISTING JUNCTION BOX	52A	INSTALL DELINEATOR MARKER	63	DRILL/CORE DRILL EXISTING FOUNDATION	75	BACKPULL AND COIL NCDOT ITS CABLE
						42	INSTALL WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	76	INSTALL HUB SWITCH		
								53	STORE 30' OF COMMUNICATIONS CABLE (EACH CABLE)	77	INSTALL CELLULAR MODEM		

ATTACHMENT POINT:

XXX
YYY REFERENCE POINT

YYY
XXX REFERENCE POINT (IN)

CONSTRUCTION NOTE SYMBOLGY KEY

NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS, ANTENNAS: XX

NUMBER OF FIBER/TWISTED PAIRS: XX

NUMBER OF RISER(S)/CONDUIT(S): XX

DIAMETER OF RISER(S)/CONDUIT(S) (IN): XX

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NCBES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

750 Greenfield Parkway, Garner, NC 27529

SCALE: 0 50 1"=50'

Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

REVISIONS: INIT. DATE

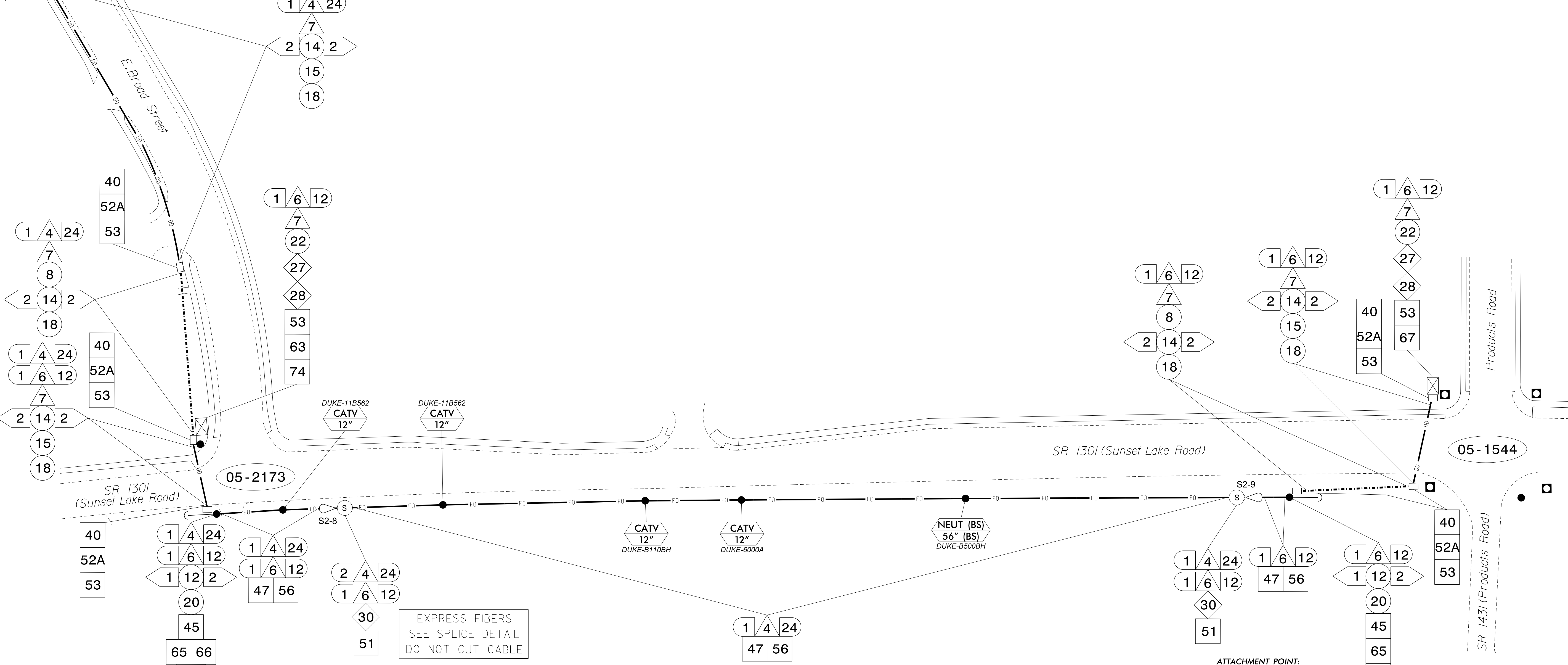
SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044476

Anthony Encarnacion 4/14/2023

CADD File name: CL-66.dgn

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MATCHLINE - SHEET SCP-71

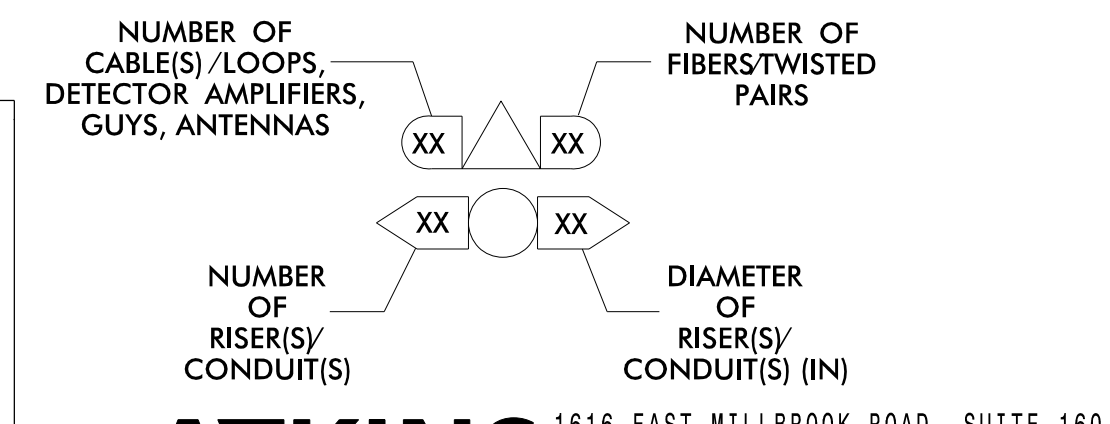


NOTES:
 1. UNLESS OTHERWISE NOTED:
 - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER.
 - ATTACH ON FRONT SIDE (FS) OF POLE.
 2. SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX / CABINET ENTRANCES.

EXPRESS FIBERS
SEE SPLICE DETAIL
DO NOT CUT CABLE

ATTACHMENT POINT:
 XXX REFERENCE POINT DISTANCE ABOVE (IN)
 YYY REFERENCE POINT DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLY KEY



ATKINS
 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCBES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

- | | | | | | | |
|---|--|--|--|---|--|--|
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| 2 INSTALL 3-WIRE COPPER SERVICE ENTRANCE CONDUCTORS | 12 INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING | 23 INSTALL NEW RISER INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE) | 33 REMOVE EXISTING SPLICE / HUB / CCTV CABINET | 44 INSTALL AERIAL GUY ASSEMBLY | 55 LASH CABLE(S) TO EXISTING MESSENGER CABLE | 67 BOND TRACER WIRE TO EQUIPMENT GROUND BUS |
| 3 INSTALL 3-WIRE COPPER FEEDER CONDUCTORS | 13 INSTALL HEAT SHRINK TUBING RETROFIT KIT | 24 INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET | 34 INSTALL CABINET FOUNDATION | 45 INSTALL STANDARD GUY ASSEMBLY | 56 LASH CABLE(S) TO NEW MESSENGER CABLE | 68 NOT USED |
| 4 INSTALL SMFO CABLE | 14 INSTALL HIGH DENSITY POLYETHYLENE CONDUIT | 25 INSTALL NEW RISER INTO POLE MOUNTED CABINET | 35 REMOVE EXISTING CABINET FOUNDATION | 46 INSTALL SIDEWALK GUY ASSEMBLY | 57 MODIFY EXISTING ELECTRICAL SERVICE | 69 HANDLASH AND INSTALL AERIAL CABLE PROTECTOR |
| 5 INSTALL COAXIAL ANTENNA CABLE | 15 DIRECTIONAL DRILL CONDUIT | 26 INSTALL DIGITAL VIDEO ENCODER | 36 INSTALL CCTV CAMERA ASSEMBLY | 47 INSTALL MESSENGER CABLE | 58 INSTALL NEW ELECTRICAL SERVICE | 70 INSTALL EQUIPMENT CABINET DISCONNECT |
| 6 INSTALL FIBER-OPTIC DROP CABLE | 16 BORE AND JACK CONDUIT | 27 INSTALL NEW ETHERNET EDGE SWITCH IN CABINET | 37 INSTALL CCTV CAMERA WOOD POLE | 48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE | 59 INSTALL NEW POLE MOUNTED CCTV CABINET (336) | 71 INSTALL MANAGED ETHERNET SWITCH |
| 7 INSTALL TRACER WIRE | 17 INSTALL CABLE(S) IN EXISTING CONDUIT | 28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET | 38 INSTALL STANDARD SIZE JUNCTION BOX | 49 REMOVE EXISTING COMMUNICATIONS CABLE | 60 INSTALL NEW CCTV CABINET (NEMA TYPE 4) | 72 INSTALL CCTV METAL POLE |
| 8 INSTALL CONDUIT UNDERGROUND | 18 INSTALL CABLE(S) IN NEW CONDUIT | 29 INSTALL UNDERGROUND SPLICE ENCLOSURE | 39 INSTALL SPECIAL-SIZED JUNCTION BOX (36" x 24" x 24") | 50 INSTALL SERVICE CONDUCTORS | 61 REMOVE EXISTING CCTV CAMERA ASSEMBLY | 73 REMOVE EXISTING CCTV METAL POLE |
| 9 INSTALL PVC CONDUIT | 19 INSTALL CABLE(S) IN EXISTING RISER(S) | 30 INSTALL AERIAL SPLICE ENCLOSURE | 40 INSTALL OVER-SIZED JUNCTION BOX | 51 INSTALL CABLE STORAGE GUIDE(S) [SNOW SHOE(S)] AND STORE 100 FEET OF EACH CABLE | 62 NEW CABINET ENTRANCE INTO NEW FOUNDATION | 74 REMOVE WIRELESS COMMUNICATIONS EQUIPMENT |
| 10 INSTALL RIGID, GALVANIZED STEEL CONDUIT | 20 INSTALL CABLE(S) IN NEW RISER(S) | 31 INSTALL TYPE 332 HUB CABINET | 41 REMOVE EXISTING JUNCTION BOX | 52A INSTALL DELINEATOR MARKER | 63 DRILL/CORE DRILL EXISTING FOUNDATION | 75 BACKPULL AND COIL NCDOT ITS CABLE |
| | | | 42 INSTALL WOOD POLE | 52B INSTALL JUNCTION BOX MARKER | 64 INTERCEPT AND REROUTE EXISTING CONDUITS | 76 INSTALL HUB SWITCH |
| | | | | 53 STORE 30' OF COMMUNICATIONS CABLE (EACH CABLE) | 65 BOND MESSENGER TO POLE GROUND | 77 INSTALL CELLULAR MODEM |

Prepared for the Offices of:
 Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina
 PLAN DATE: June 2022 REVIEWED BY: MB Toth
 PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

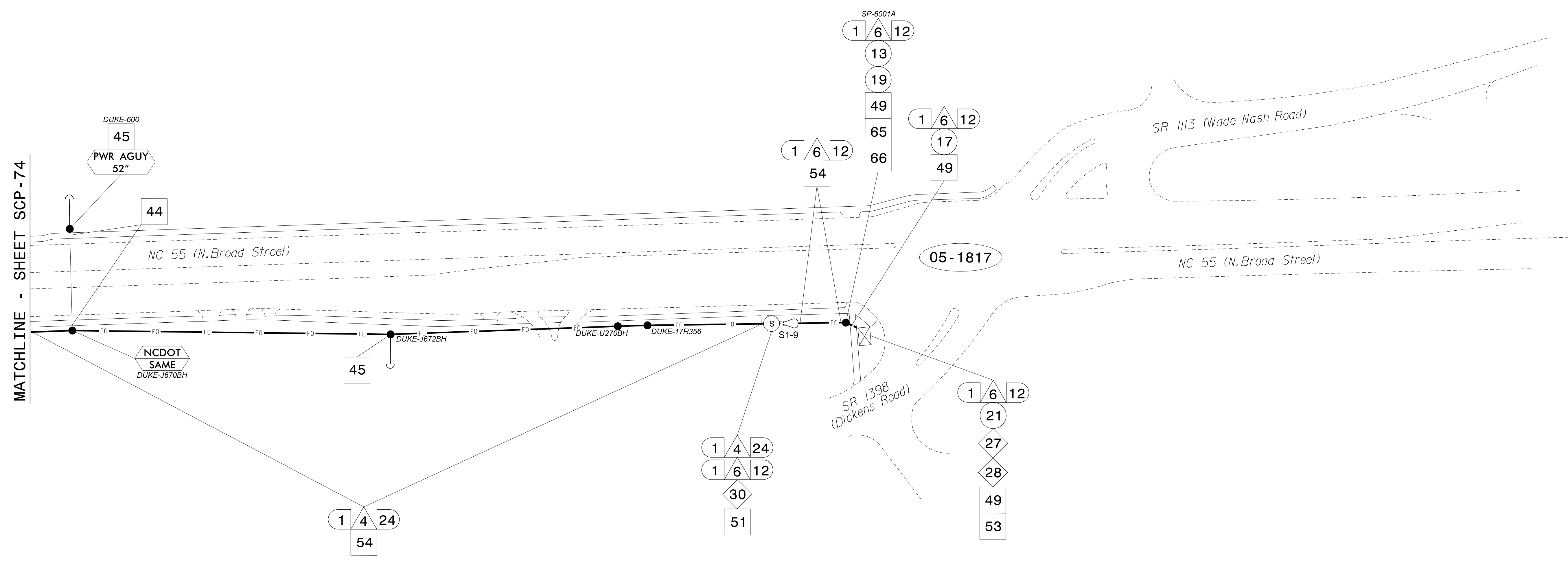
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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 044476
 AUTHORITY M. ENCARNACION

4/14/2023
 DATE

CADD File Name: CL-67.dgn

16-MAR-2023 17:00
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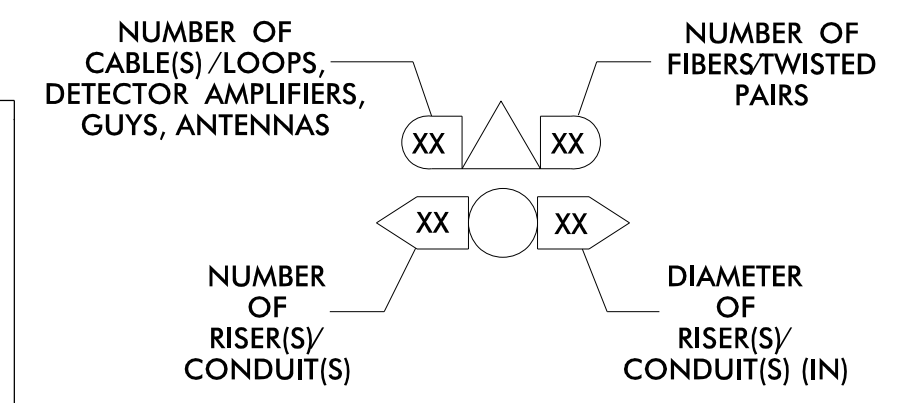
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ATTACHMENT POINT:

XXX
YYY REFERENCE POINT

YYY
XXX REFERENCE POINT DISTANCE BELOW (IN)

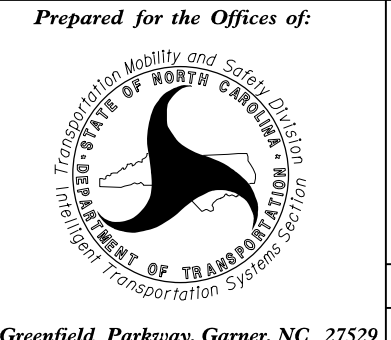
CONSTRUCTION NOTE SYMBOLOGY KEY



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10 INSTALL RIGID, GALVANIZED STEEL CONDUIT	20 INSTALL CABLE(S) IN NEW RISER(S)	31 INSTALL TYPE 332 HUB CABINET	41 REMOVE EXISTING JUNCTION BOX	52A INSTALL DELINEATOR MARKER	63 DRILL/CORE DRILL EXISTING FOUNDATION	75 BACKPULL AND COIL NCDOT ITS CABLE
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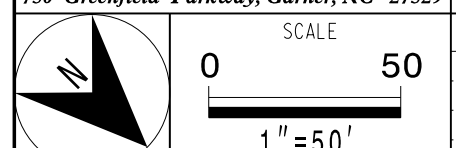
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-8888 NGBEES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



Prepared for the Offices of:

Fuquay-Varina Signal System Cable Routing Plans		
Division 5	Wake County	Fuquay-Varina
PLAN DATE: June 2022	REVIEWED BY: MB Toth	
PREPARED BY: JT Stiff	REVIEWED BY: AM Encarnacion	
REVISIONS	INIT.	DATE

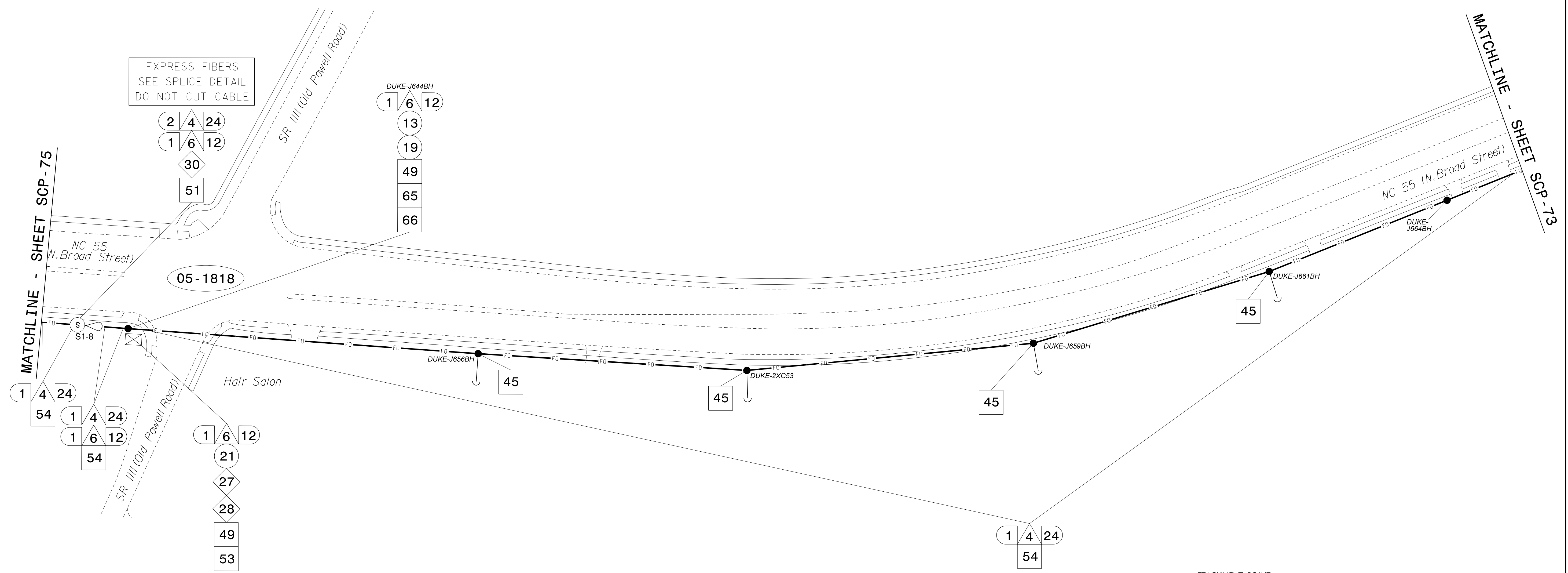


SCALE 1"=50'

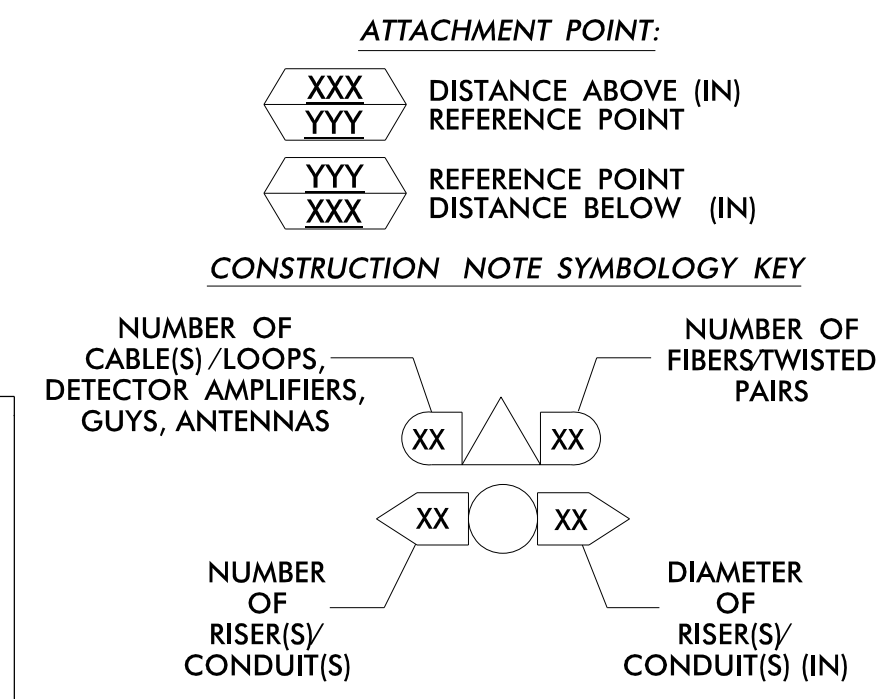
Anthony Encarnacion 4/14/2023

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- NOTES:**
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Prepared for the Offices of:

750 Greenfield Parkway, Garner, NC 27529

SCALE: 0 50 1"=50'

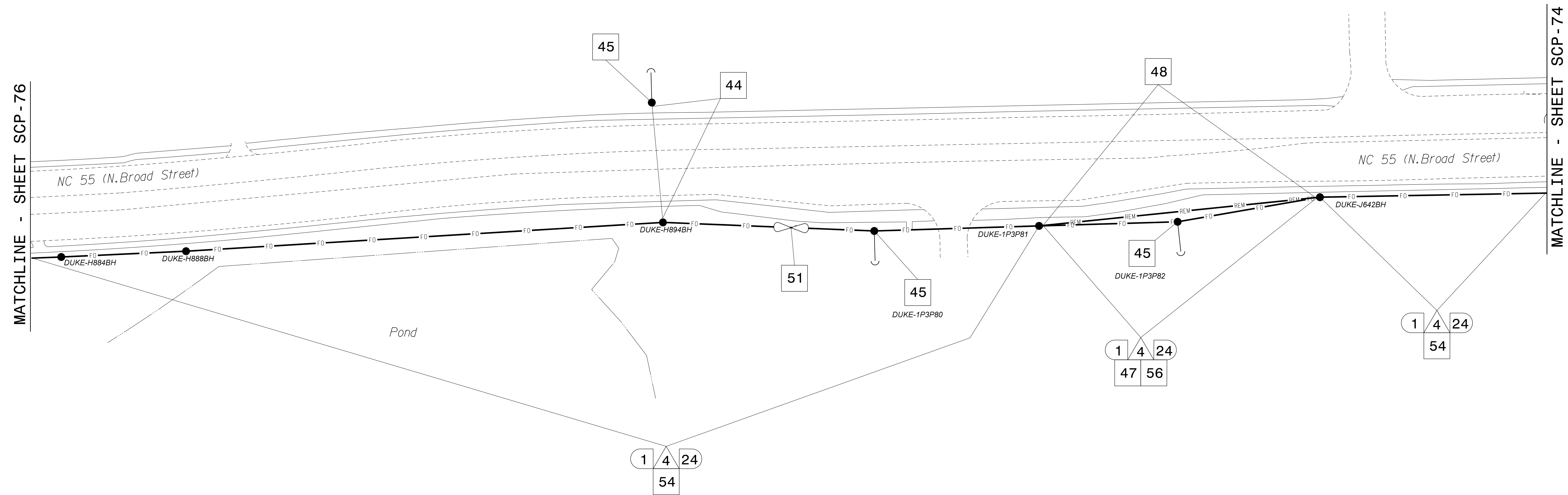
Fuquay-Varina Signal System Cable Routing Plans		SEAL	
Division 5	Wake County	Fuquay-Varina	
PLAN DATE: June 2022	REVIEWED BY: MB Toth		
PREPARED BY: JT Stiff	REVIEWED BY: AM Encarnacion		
REVISIONS	INIT.	DATE	

Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044476

Signature: Anthony Encarnacion 4/14/2023

CADD File Name: CL-69.dgn

16-MB-2023-17-C00
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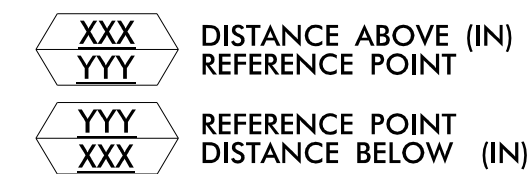


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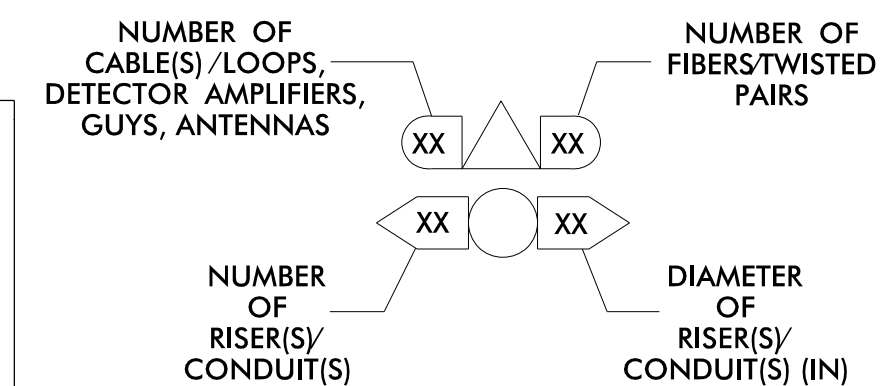
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5	INSTALL COAXIAL ANTENNA CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL DIGITAL VIDEO ENCODER	36	INSTALL CCTV CAMERA ASSEMBLY	47	INSTALL MESSENGER CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	INSTALL EQUIPMENT CABINET DISCONNECT
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9	INSTALL PVC CONDUIT	19	INSTALL CABLE(S) IN EXISTING RISER(S)	30	INSTALL AERIAL SPLICE ENCLOSURE	40	INSTALL OVER-SIZED JUNCTION BOX	51	INSTALL CABLE STORAGE GUIDE(S) (SNOW SHOE(S) AND STORE 100 FEET OF EACH CABLE)	62	NEW CABINET ENTRANCE INTO NEW FOUNDATION	74	REMOVE WIRELESS COMMUNICATIONS EQUIPMENT
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	20	INSTALL CABLE(S) IN NEW RISER(S)	31	INSTALL TYPE 332 HUB CABINET	41	REMOVE EXISTING JUNCTION BOX	52A	INSTALL DELINEATOR MARKER	63	DRILL/CORE DRILL EXISTING FOUNDATION	75	BACKPULL AND COIL NCDOT ITS CABLE
						42	INSTALL WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	64	INTERCEPT AND REROUTE EXISTING CONDUITS	76	INSTALL HUB SWITCH
								53	STORE 30' OF COMMUNICATIONS CABLE (EACH CABLE)	65	BOND MESSENGER TO POLE GROUND	77	INSTALL CELLULAR MODEM

ATTACHMENT POINT:



CONSTRUCTION NOTE SYMBOLOLOGY KEY



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-8888 NCBES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

 750 Greenfield Parkway, Garner, NC 27529

Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

REVISIONS INIT. DATE

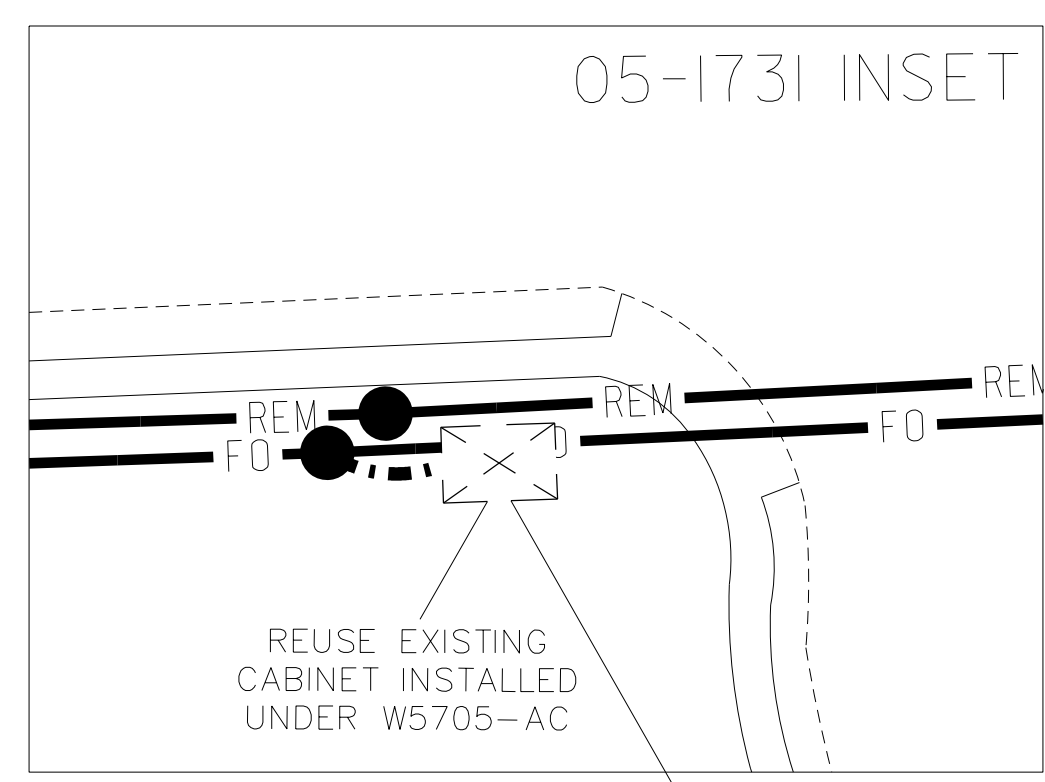
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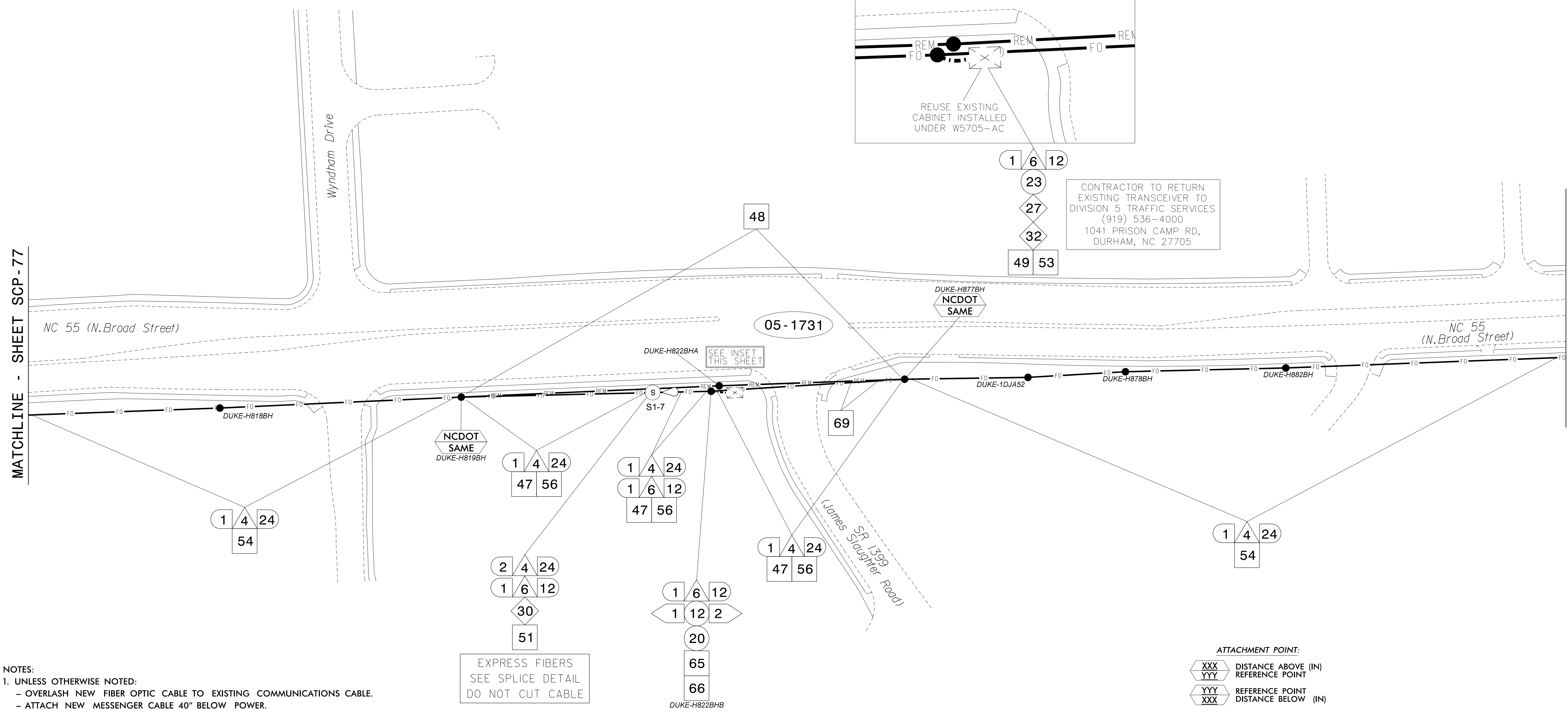
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 DATE
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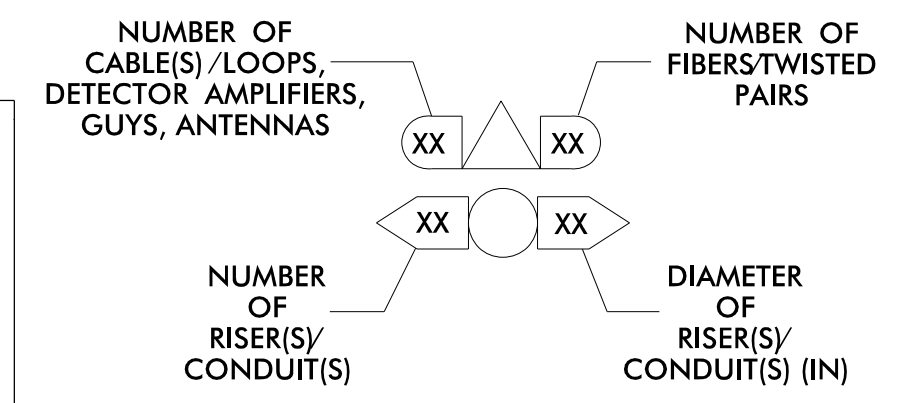
CONTRACTOR TO RETURN EXISTING TRANSCEIVER TO DIVISION 5 TRAFFIC SERVICES (919) 536-4000 1041 PRISON CAMP RD, DURHAM, NC 27705



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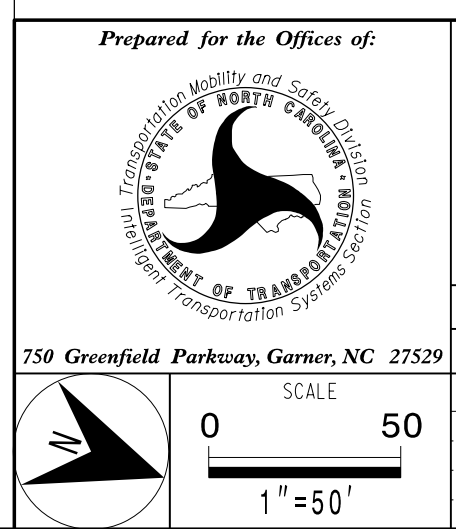
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 XXX DISTANCE ABOVE (IN) REFERENCE POINT
 YYY REFERENCE POINT DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLY KEY



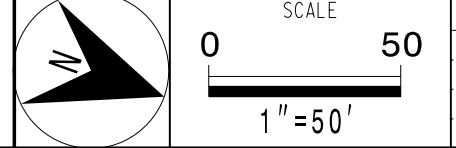
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NCBES #F-0326

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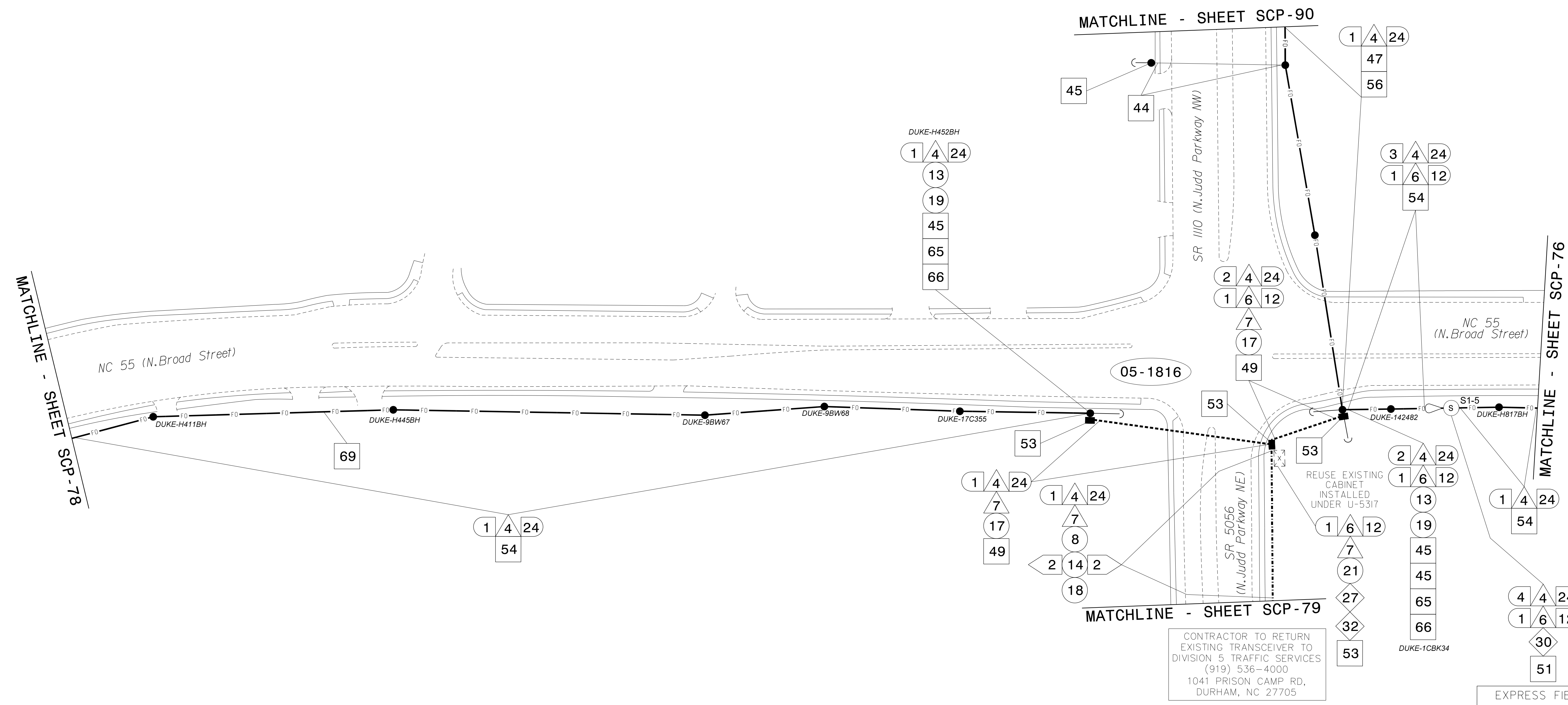
Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina
 PLAN DATE: June 2022 REVIEWED BY: MB Toth
 PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion



1 INSTALL CATEGORY 6 CABLE	11 INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22 INSTALL NEW CONDUIT INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)	32 MODIFY EXISTING SPLICE ENCLOSURE OR INTERCONNECT CENTER	43 REMOVE EXISTING WOOD POLE	54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	66 BOND RISER TO POLE GROUND
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16-MAR-2023 11:00 AM //S:\SCD\036345\15-corr\A\K\N\01\Documents\Roads and Br\rdgs\Projects\100063268_Fuquay Var\ncr\Task 11_CL\CL-71.dgn

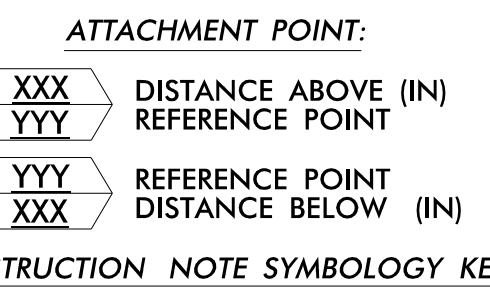


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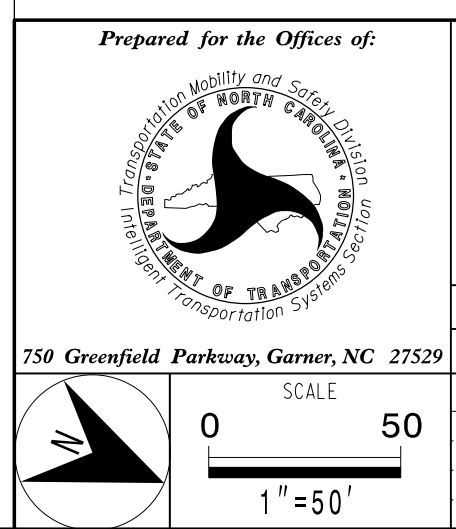
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CONTRACTOR TO RETURN EXISTING TRANSCEIVER TO DIVISION 5 TRAFFIC SERVICES (919) 536-4000
1041 PRISON CAMP RD, DURHAM, NC 27705

EXPRESS FIBERS
SEE SPLICE DETAIL
DO NOT CUT CABLE

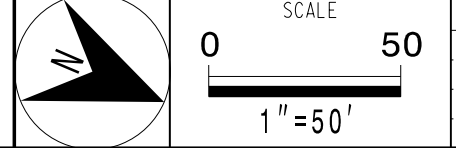


ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-8888 NCBEES #F-03226

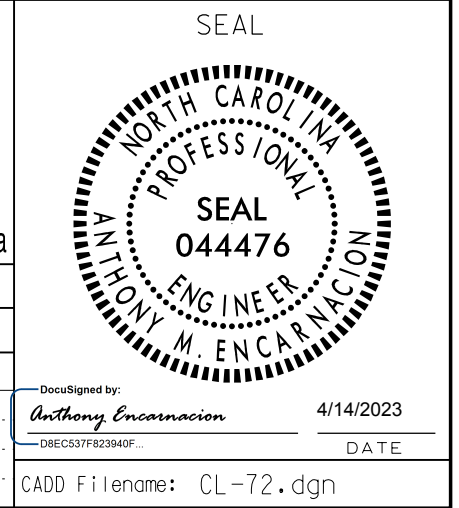


**Fuquay-Varina Signal System
Cable Routing Plans**

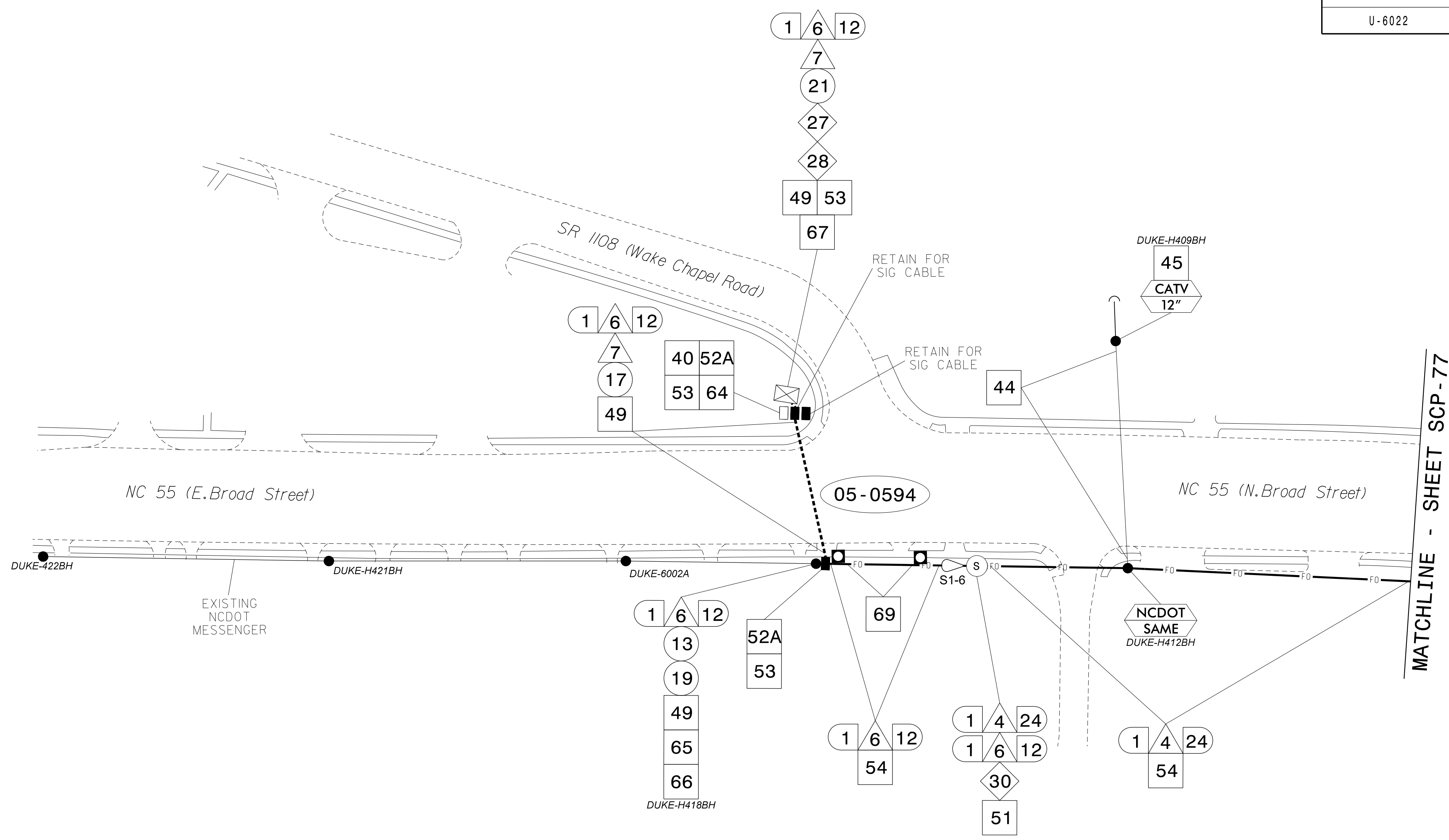
Division 5	Wake County	Fuquay-Varina
PLAN DATE: June 2022	REVIEWED BY: MB Toth	
PREPARED BY: JT Stiff	REVIEWED BY: AM Encarnacion	
REVISIONS	INIT.	DATE



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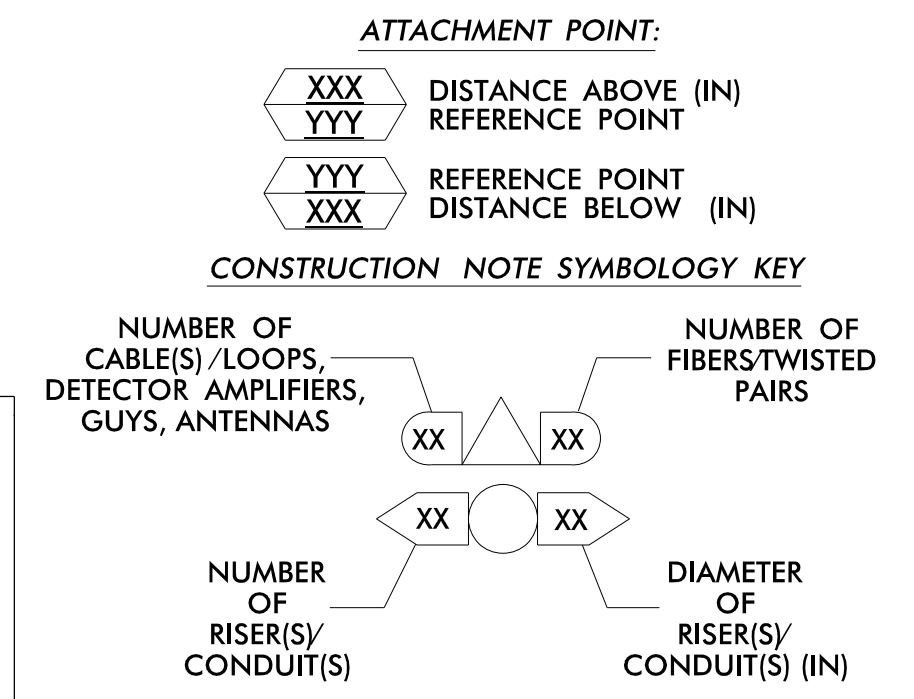


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MATCHLINE - SHEET SCP-77

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Prepared for the Offices of:

 Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

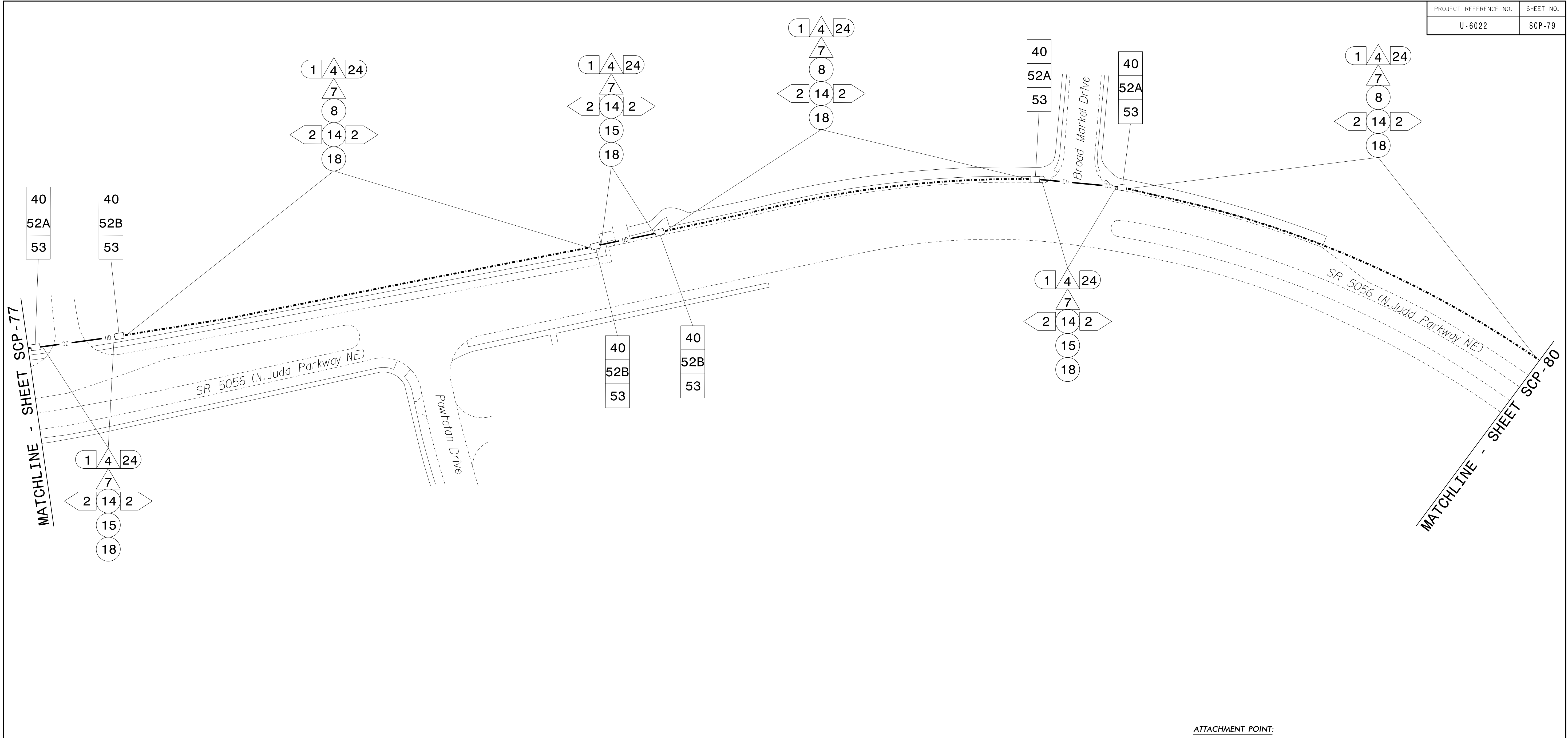
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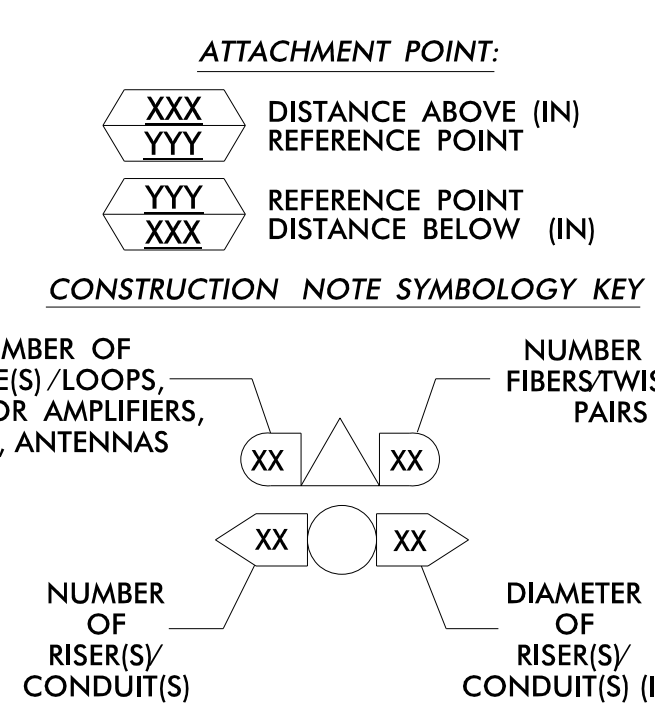
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5	INSTALL COAXIAL ANTENNA CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL DIGITAL VIDEO ENCODER	36	INSTALL CCTV CAMERA ASSEMBLY	47	INSTALL MESSENGER CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	INSTALL EQUIPMENT CABINET DISCONNECT
6	INSTALL FIBER-OPTIC DROP CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW ETHERNET EDGE SWITCH IN CABINET	37	INSTALL CCTV CAMERA WOOD POLE	48	REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59	INSTALL NEW POLE MOUNTED CCTV CABINET (336)	71	INSTALL MANAGED ETHERNET SWITCH
7	INSTALL TRACER WIRE	17	INSTALL CABLE(S) IN EXISTING CONDUIT	28	INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET	38	INSTALL STANDARD SIZE JUNCTION BOX	49	REMOVE EXISTING COMMUNICATIONS CABLE	60	INSTALL NEW CCTV CABINET (NEMA TYPE 4)	72	INSTALL CCTV METAL POLE
8	INSTALL CONDUIT UNDERGROUND	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	39	INSTALL SPECIAL-SIZED JUNCTION BOX (36" x 24" x 24")	50	INSTALL SERVICE CONDUCTORS	61	REMOVE EXISTING CCTV CAMERA ASSEMBLY	73	REMOVE EXISTING CCTV METAL POLE
9	INSTALL PVC CONDUIT	19	INSTALL CABLE(S) IN EXISTING RISER(S)	30	INSTALL AERIAL SPLICE ENCLOSURE	40	INSTALL OVER-SIZED JUNCTION BOX	51	INSTALL CABLE STORAGE GUIDE(S) (SNOW SHOE(S) AND STORE 100 FEET OF EACH CABLE)	62	NEW CABINET ENTRANCE INTO NEW FOUNDATION	74	REMOVE WIRELESS COMMUNICATIONS EQUIPMENT
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	20	INSTALL CABLE(S) IN NEW RISER(S)	31	INSTALL TYPE 332 HUB CABINET	41	REMOVE EXISTING JUNCTION BOX	52A	INSTALL DELINEATOR MARKER	63	DRILL/CORE DRILL EXISTING FOUNDATION	75	BACKPULL AND COIL NCDOT ITS CABLE
						42	INSTALL WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	64	INTERCEPT AND REROUTE EXISTING CONDUITS	76	INSTALL HUB SWITCH
								53	STORE 30' OF COMMUNICATIONS CABLE (EACH CABLE)	65	BOND MESSENGER TO POLE GROUND	77	INSTALL CELLULAR MODEM



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
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Prepared for the Offices of:

Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

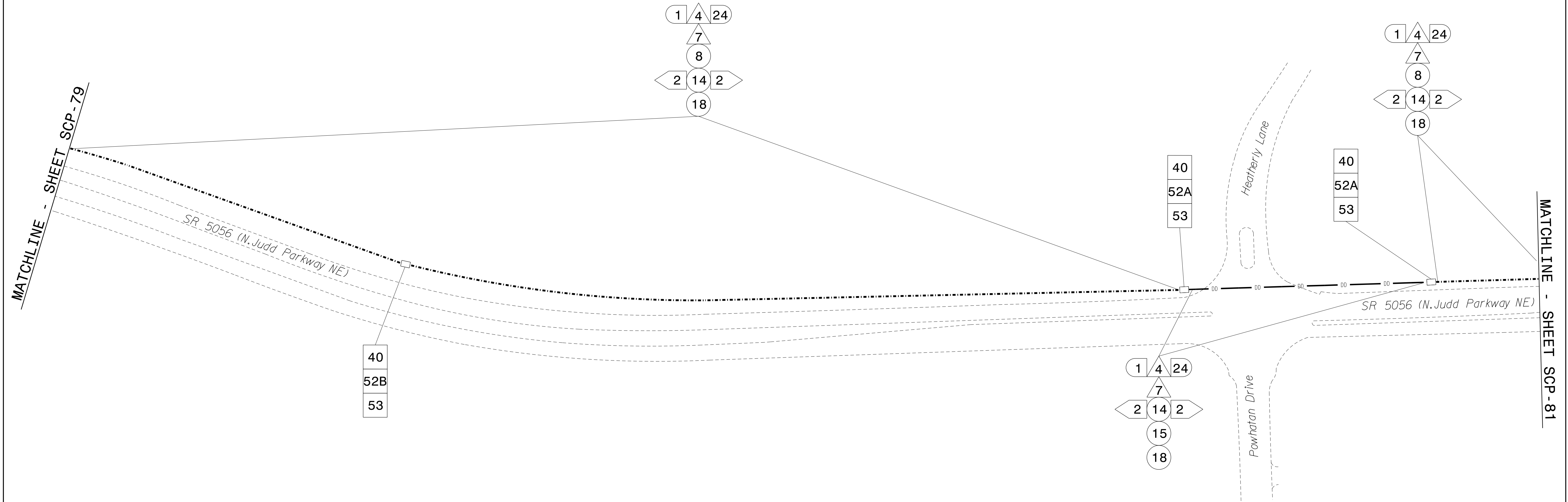
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4/14/2023

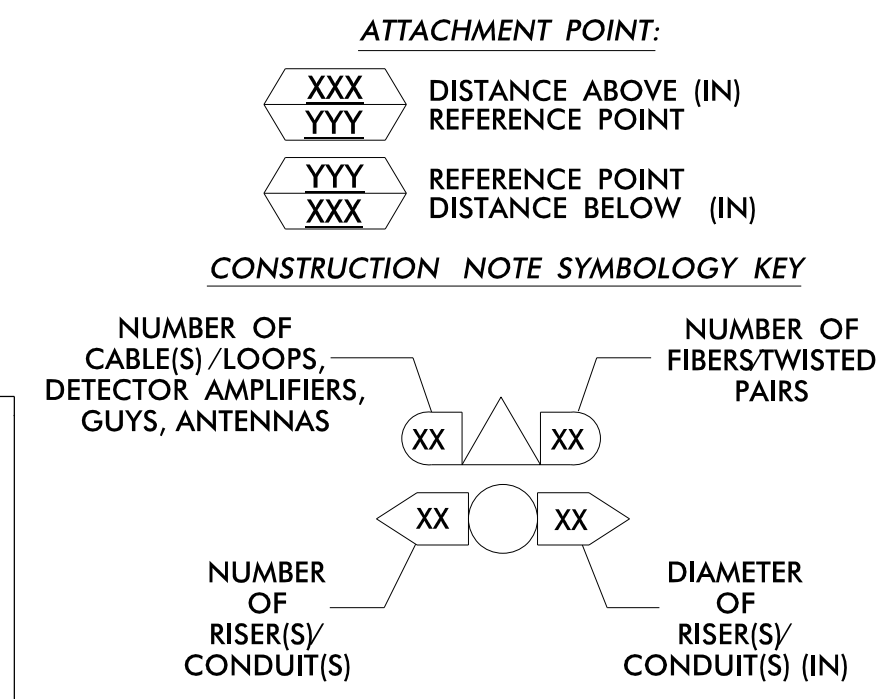
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NOTES:

- UNLESS OTHERWISE NOTED:
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 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER.
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2	INSTALL 3-WIRE COPPER SERVICE ENTRANCE CONDUCTORS	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING	23	INSTALL NEW RISER INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)	33	REMOVE EXISTING SPLICE / HUB / CCTV CABINET	44	INSTALL AERIAL GUY ASSEMBLY	55	LASH CABLE(S) TO EXISTING MESSENGER CABLE	67	BOND TRACER WIRE TO EQUIPMENT GROUND BUS
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Prepared for the Offices of:

Fuquay-Varina Signal System Cable Routing Plans

Division 5	Wake County	Fuquay-Varina
PLAN DATE: June 2022	REVIEWED BY: MB Toth	
PREPARED BY: JT Stiff	REVIEWED BY: AM Encarnacion	
REVISIONS	INIT.	DATE

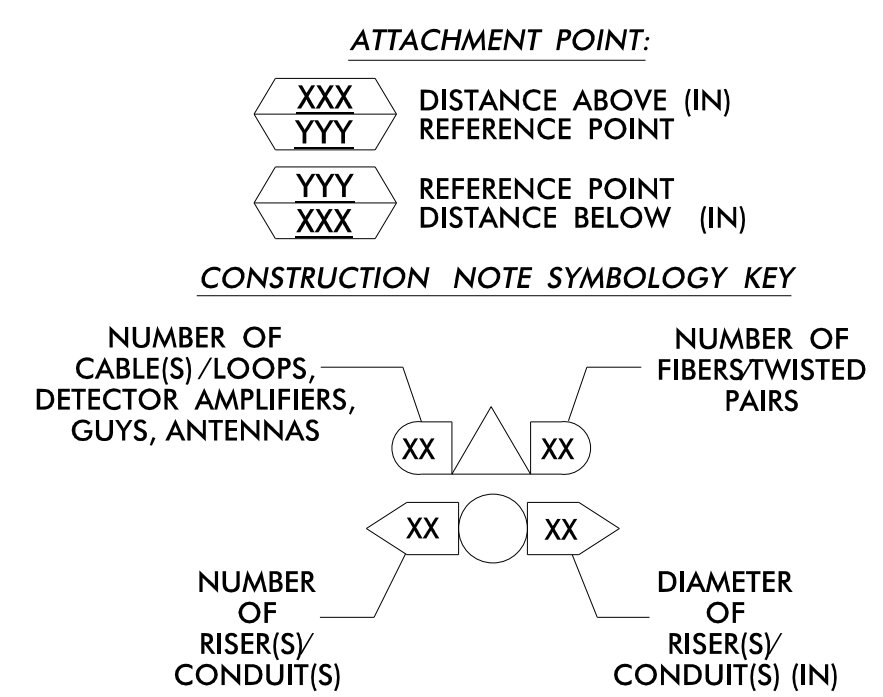
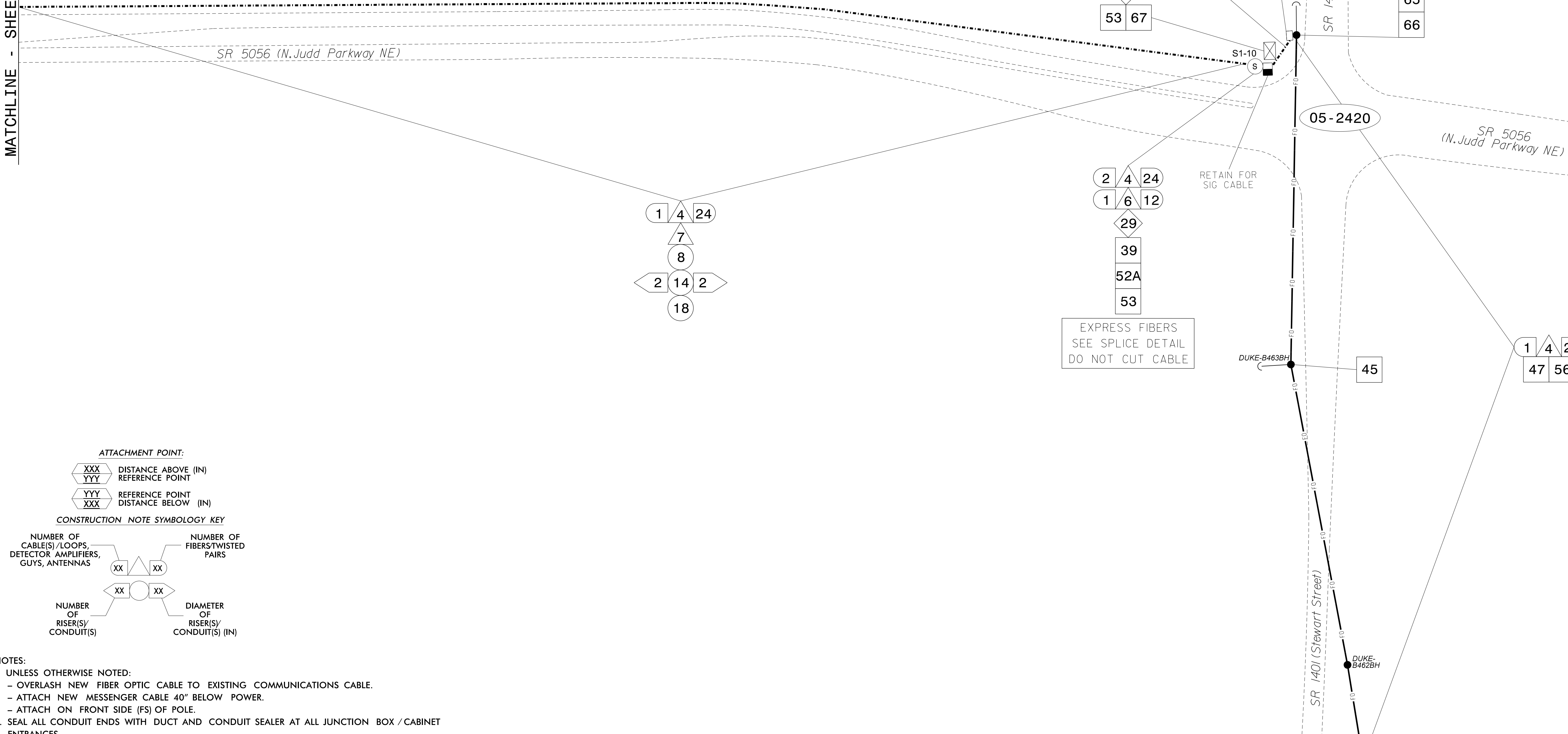
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4/14/2023
Anthony Encarnacion
Professional Engineer
Seal 044476
DATE

CADD File name: CL-75.dgn

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MATCHLINE - SHEET SCP-80



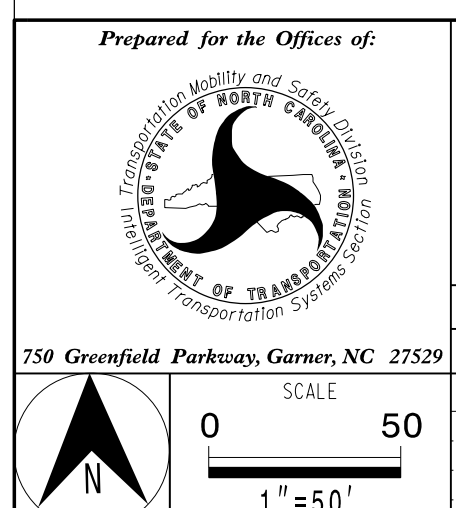
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MATCHLINE - SHEET SCP-82

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Prepared for the Offices of:

Fuquay-Varina Signal System Cable Routing Plans

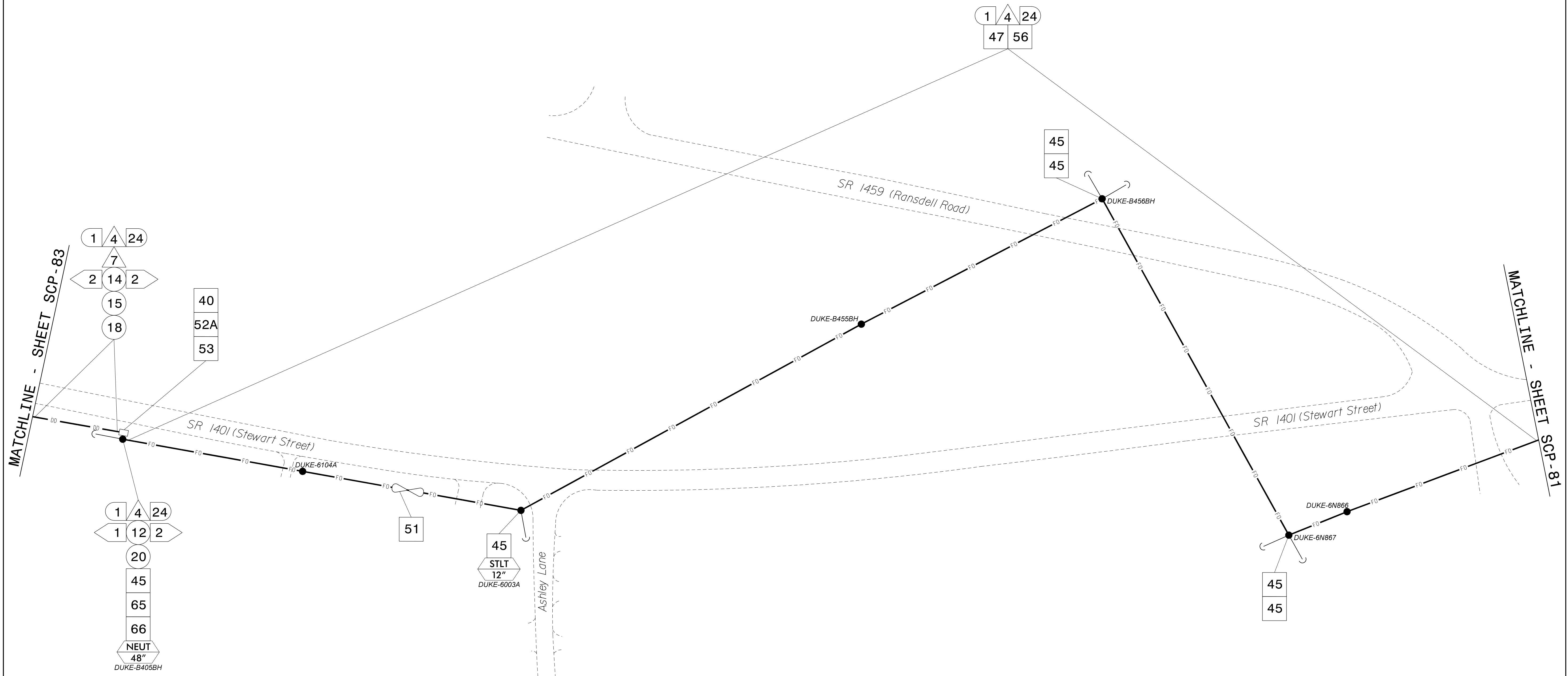
Division 5	Wake County	Fuquay-Varina
PLAN DATE: June 2022	REVIEWED BY: MB Toth	
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REVISIONS	INIT.	DATE

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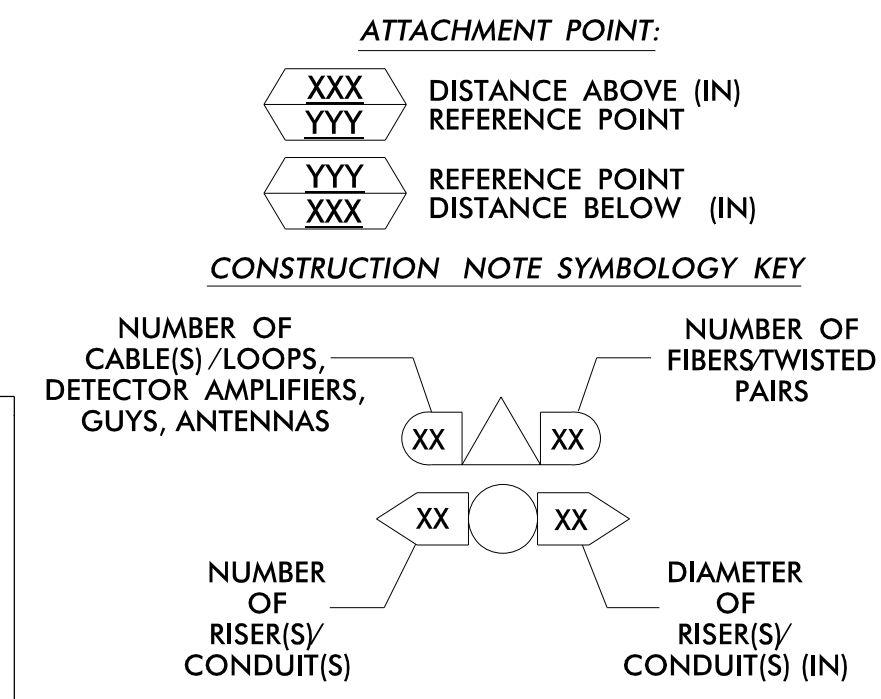
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Fuquay-Varina Signal System Cable Routing Plans

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

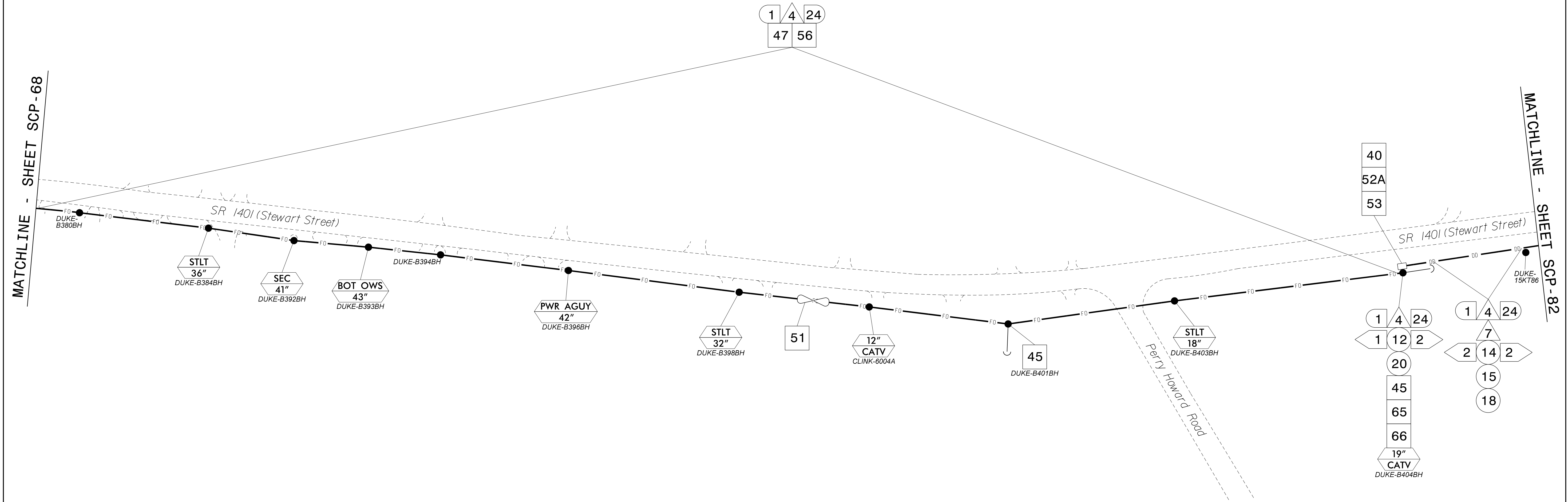
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ATTACHMENT POINT:

XXX
YYY REFERENCE POINT

YYY
XXX REFERENCE POINT DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLGY KEY

NUMBER OF CABLE(S)/LOOPS, DETECTOR, AMPLIFIERS, GUYS, ANTENNAS: XX

NUMBER OF FIBER/TWISTED PAIRS: XX

NUMBER OF RISER(S)/CONDUIT(S): XX

DIAMETER OF RISER(S)/CONDUIT(S) (IN): XX

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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NCBES #F-0326

Prepared for the Offices of: **Fuquay-Varina Signal System Cable Routing Plans**

Division 5 Wake County Fuquay-Varina

PLAN DATE: June 2022 REVIEWED BY: MB Toth

PREPARED BY: JT Stiff REVIEWED BY: AM Encarnacion

REVISIONS: INIT. DATE

SCALE: 0 50 1"=50'

Seal: **ANTHONY M. ENCARNACION** PROFESSIONAL ENGINEER No. 044476

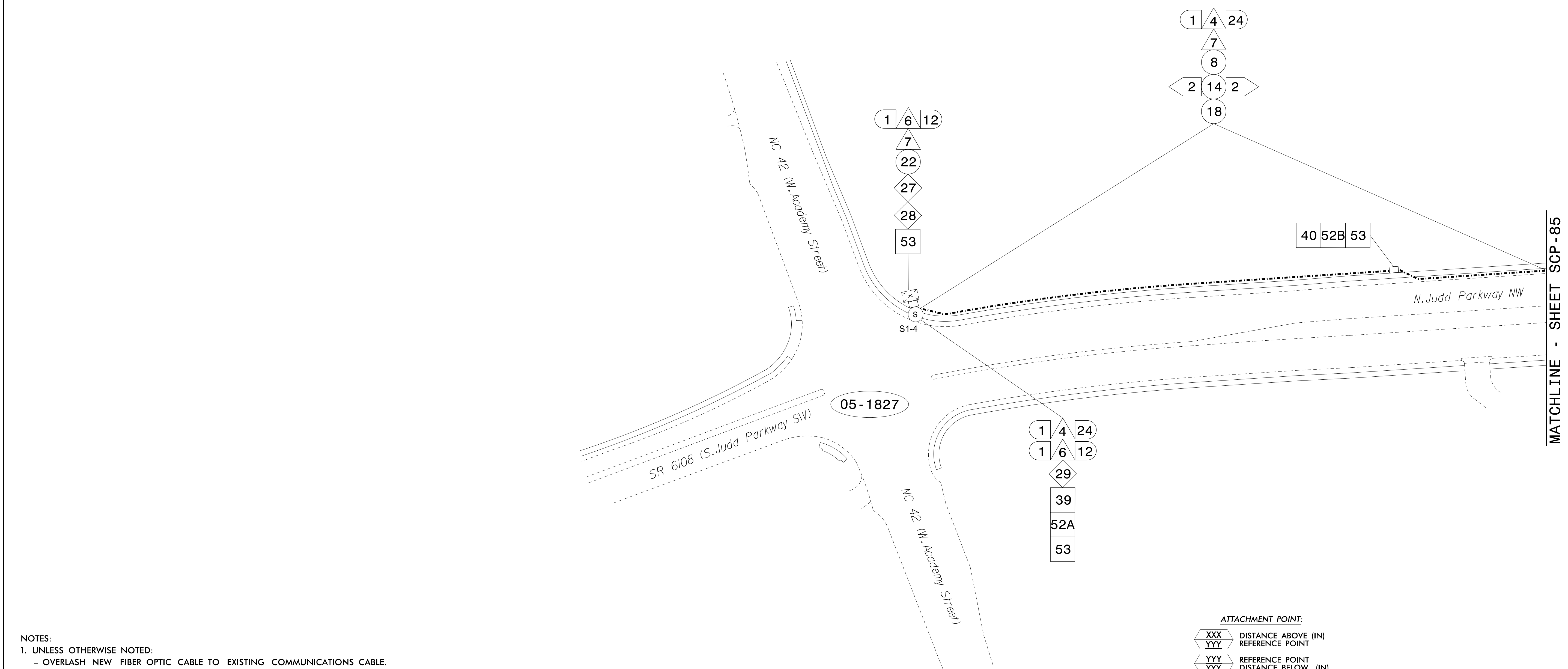
DATE: 4/14/2023

CADD File name: CL-78.dgn

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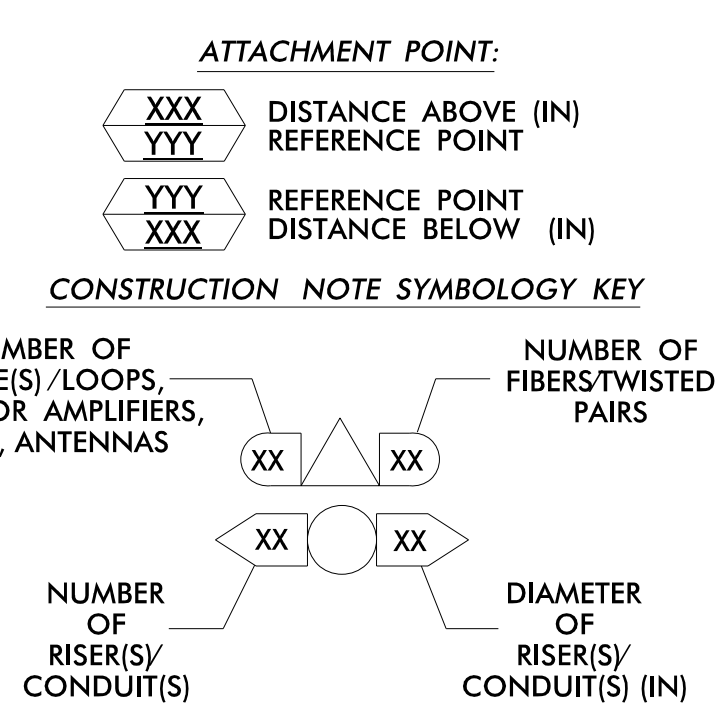
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- NOTES:**
- UNLESS OTHERWISE NOTED:
 - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER.
 - ATTACH ON FRONT SIDE (FS) OF POLE.
 - SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX / CABINET ENTRANCES.

1	INSTALL CATEGORY 6 CABLE	11	INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22	INSTALL NEW CONDUIT INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)	32	MODIFY EXISTING SPLICE ENCLOSURE OR INTERCONNECT CENTER	43	REMOVE EXISTING WOOD POLE	54	LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	66	BOND RISER TO POLE GROUND
2	INSTALL 3-WIRE COPPER SERVICE ENTRANCE CONDUCTORS	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING	23	INSTALL NEW RISER INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)	33	REMOVE EXISTING SPLICE / HUB / CCTV CABINET	44	INSTALL AERIAL GUY ASSEMBLY	55	LASH CABLE(S) TO EXISTING MESSENGER CABLE	67	BOND TRACER WIRE TO EQUIPMENT GROUND BUS
3	INSTALL 3-WIRE COPPER FEEDER CONDUCTORS	13	INSTALL HEAT SHRINK TUBING RETROFIT KIT	24	INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	34	INSTALL CABINET FOUNDATION	45	INSTALL STANDARD GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	NOT USED
4	INSTALL SMFO CABLE	14	INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO POLE MOUNTED CABINET	35	REMOVE EXISTING CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	57	MODIFY EXISTING ELECTRICAL SERVICE	69	HANDLASH AND INSTALL AERIAL CABLE PROTECTOR
5	INSTALL COAXIAL ANTENNA CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL DIGITAL VIDEO ENCODER	36	INSTALL CCTV CAMERA ASSEMBLY	47	INSTALL MESSENGER CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	INSTALL EQUIPMENT CABINET DISCONNECT
6	INSTALL FIBER-OPTIC DROP CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW ETHERNET EDGE SWITCH IN CABINET	37	INSTALL CCTV CAMERA WOOD POLE	48	REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59	INSTALL NEW POLE MOUNTED CCTV CABINET (336)	71	INSTALL MANAGED ETHERNET SWITCH
7	INSTALL TRACER WIRE	17	INSTALL CABLE(S) IN EXISTING CONDUIT	28	INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET	38	INSTALL STANDARD SIZE JUNCTION BOX	49	REMOVE EXISTING COMMUNICATIONS CABLE	60	INSTALL NEW CCTV CABINET (NEMA TYPE 4)	72	INSTALL CCTV METAL POLE
8	INSTALL CONDUIT UNDERGROUND	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	39	INSTALL SPECIAL-SIZED JUNCTION BOX (36" x 24" x 24")	50	INSTALL SERVICE CONDUCTORS	61	REMOVE EXISTING CCTV CAMERA ASSEMBLY	73	REMOVE EXISTING CCTV METAL POLE
9	INSTALL PVC CONDUIT	19	INSTALL CABLE(S) IN EXISTING RISER(S)	30	INSTALL AERIAL SPLICE ENCLOSURE	40	INSTALL OVER-SIZED JUNCTION BOX	51	INSTALL CABLE STORAGE GUIDE(S) [SNOW SHOE(S)] AND STORE 100 FEET OF EACH CABLE	62	NEW CABINET ENTRANCE INTO NEW FOUNDATION	74	REMOVE WIRELESS COMMUNICATIONS EQUIPMENT
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	20	INSTALL CABLE(S) IN NEW RISER(S)	31	INSTALL TYPE 332 HUB CABINET	41	REMOVE EXISTING JUNCTION BOX	52A	INSTALL DELINEATOR MARKER	63	DRILL/CORE DRILL EXISTING FOUNDATION	75	BACKPULL AND COIL NCDOT ITS CABLE
						42	INSTALL WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	64	INTERCEPT AND REROUTE EXISTING CONDUITS	76	INSTALL HUB SWITCH
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