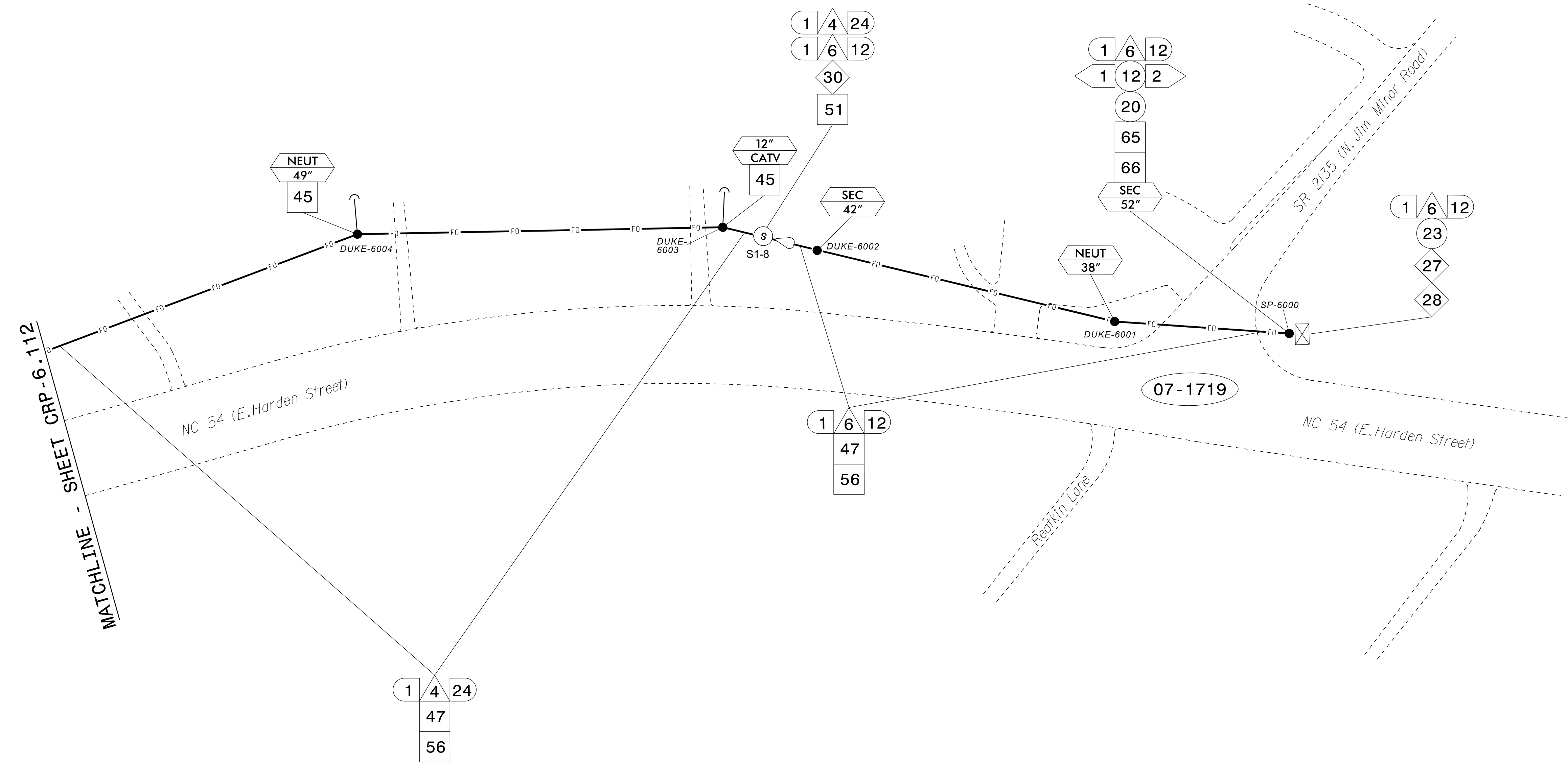


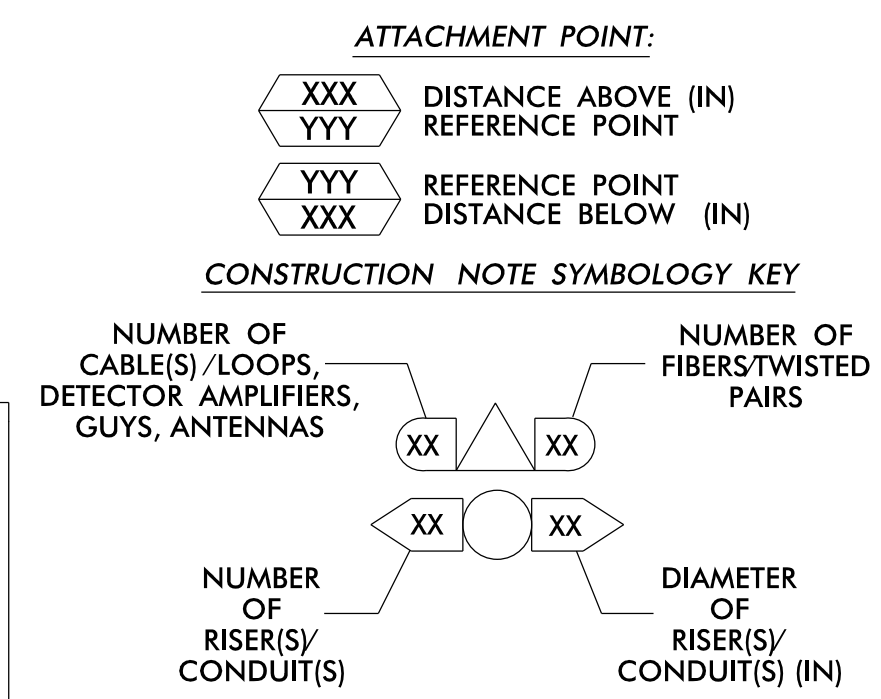
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 - ATTACH ON FRONT SIDE (FS) OF POLE.
 2. SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX / CABINET ENTRANCES.



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	55	LASH CABLE(S) TO EXISTING MESSENGER CABLE	66	BOND RISER TO POLE GROUND
2	INSTALL LOW VOLTAGE POWER CABLE (24VAC)	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	56	LASH CABLE(S) TO NEW MESSENGER CABLE	67	BOND TRACER WIRE TO EQUIPMENT GROUND BUS
3	INSTALL COMPOSITE CCTV CABLE	13	INSTALL HEAT SHRINK TUBING KIT	24	INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	34	INSTALL CABINET FOUNDATION	45	INSTALL STANDARD GUY ASSEMBLY	57	MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV	68	BOND TRACER WIRE TO POLE GROUND
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Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 PREPARED BY: AME/AJH/VJP/NAP/JAW REVIEWED BY: M B Toth

750 Greenfield Parkway, Garner, NC 27529

SCALE 0 50 1"=50'

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH 025892

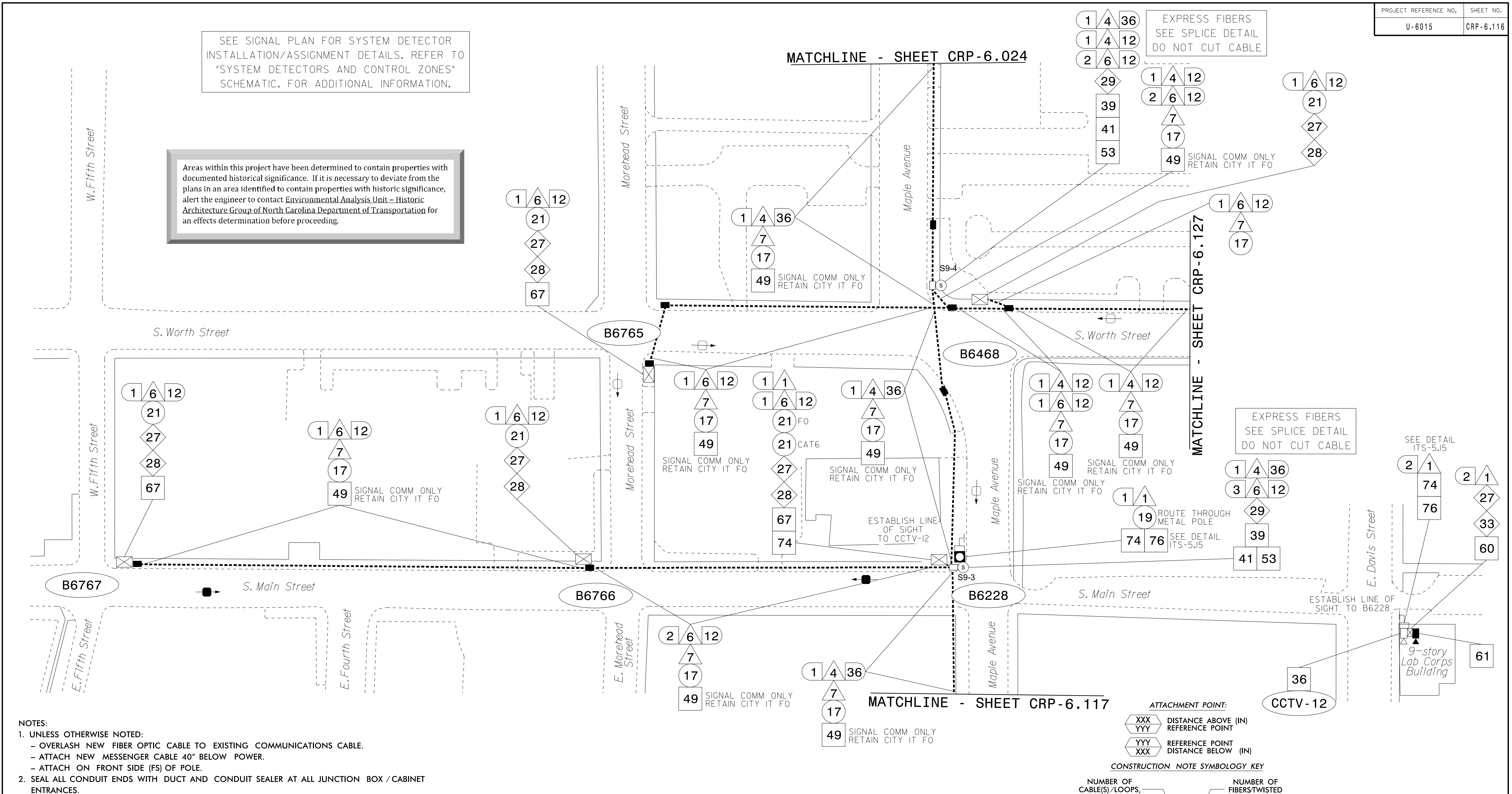
Melissa B. Toth 6/13/2018

CADD File name: CL-113.dgn

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SEE SIGNAL PLAN FOR SYSTEM DETECTOR INSTALLATION/ASSIGNMENT DETAILS. REFER TO "SYSTEM DETECTORS AND CONTROL ZONES" SCHEMATIC FOR ADDITIONAL INFORMATION.

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CONSTRUCTION NOTE SYMBOLOLOGY KEY

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

NUMBER OF RISER(S) / CONDUIT(S)

NUMBER OF FIBER TWISTED PAIRS

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

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Prepared for the Offices of:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Division 7 Alamance County Burlington & Graham

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: AME/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

REVISIONS INIT. DATE

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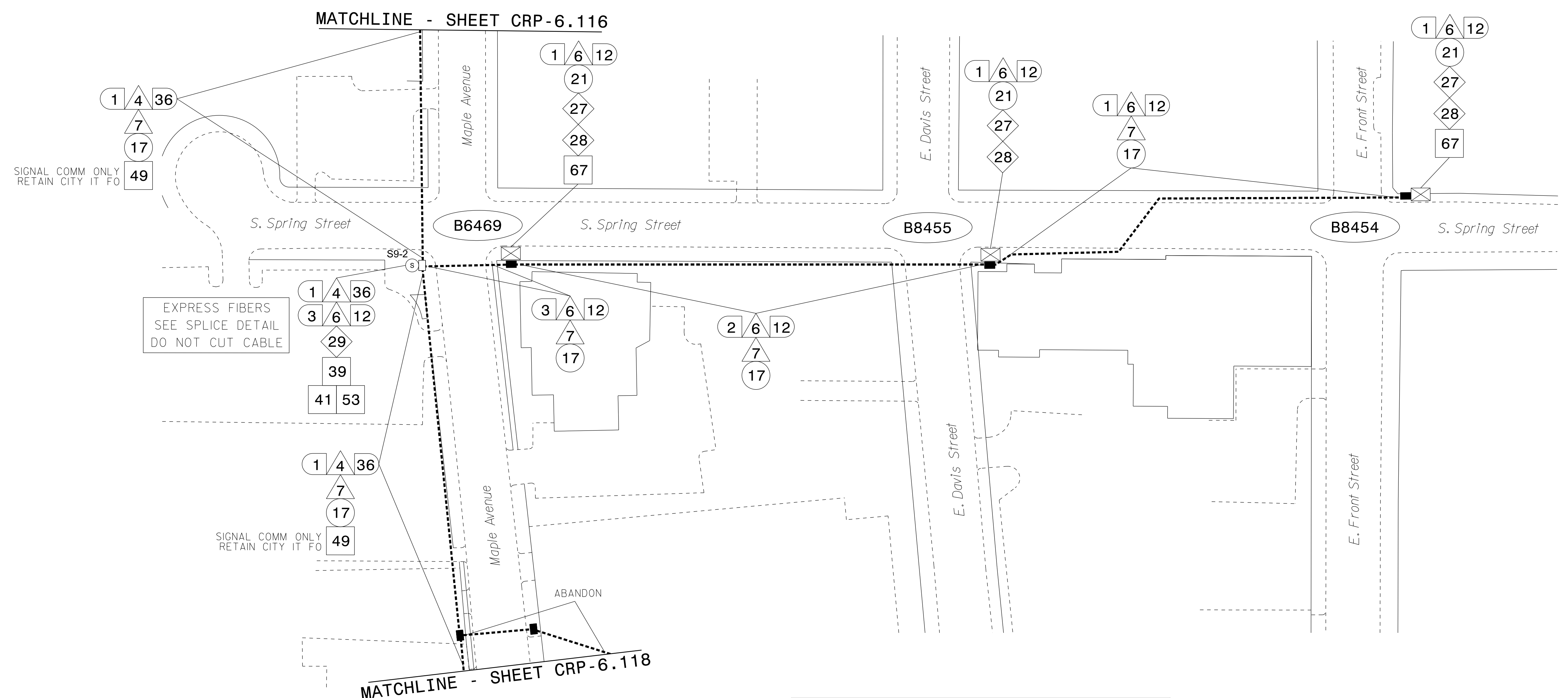
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SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH SEAL 025892

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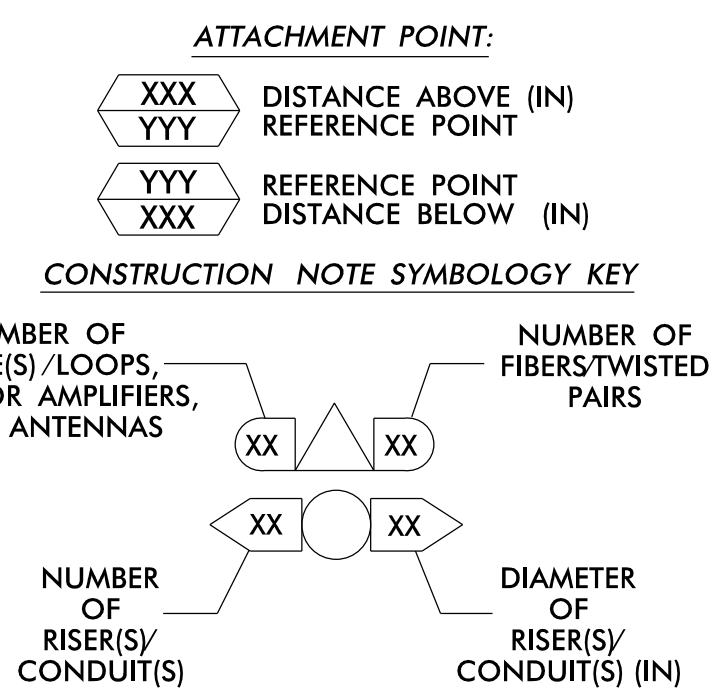
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Division 7 Alamance County Burlington & Graham

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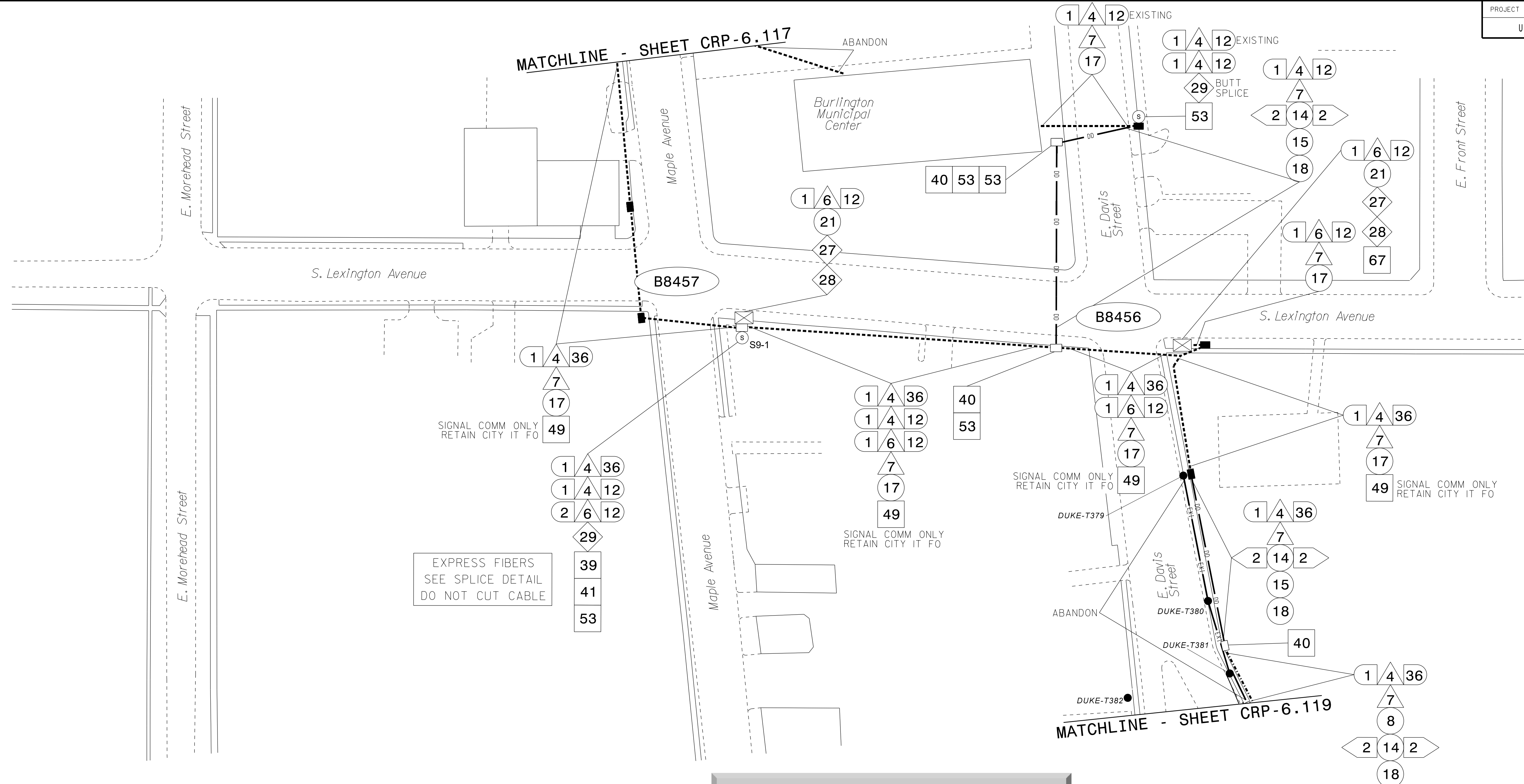
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DocuSigned by: *Melissa B. Toth* 025892 13/2018

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH

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MATCHLINE - SHEET CRP-6.117

MATCHLINE - SHEET CRP-6.119

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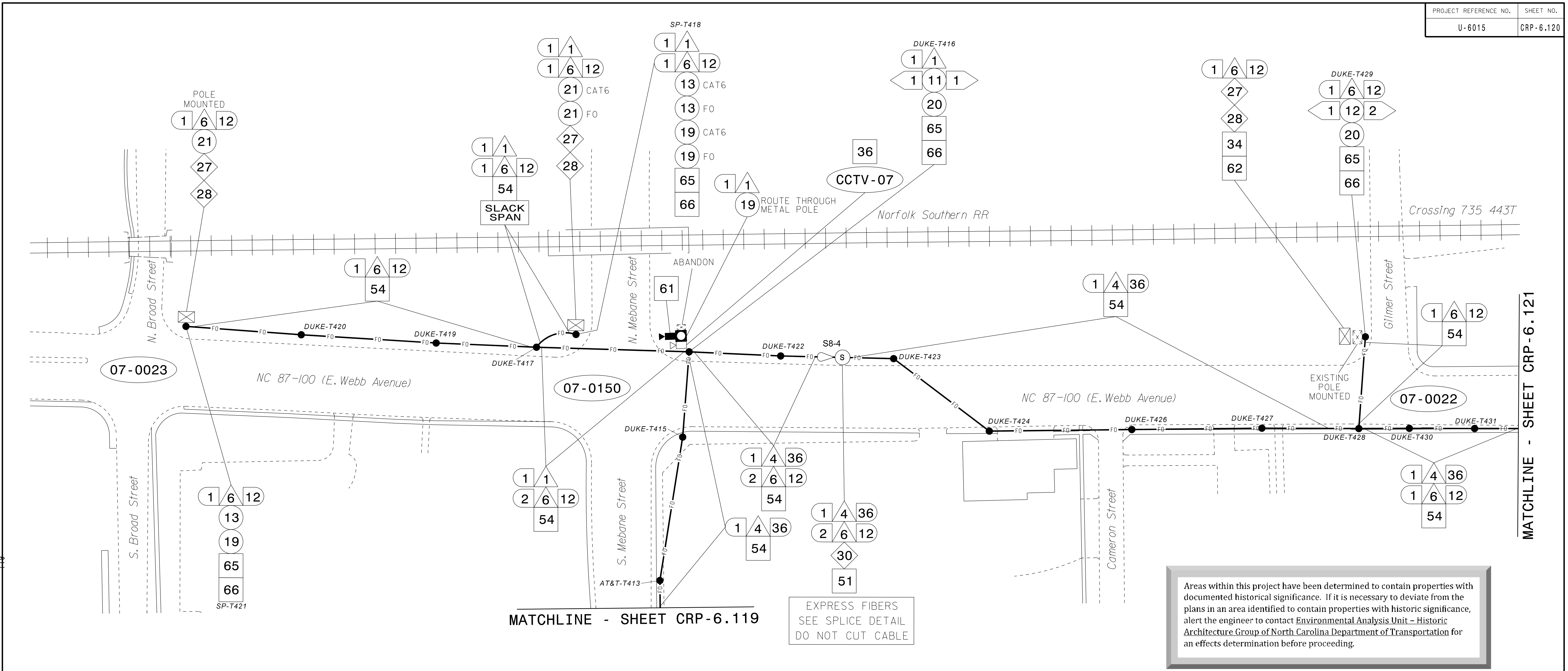
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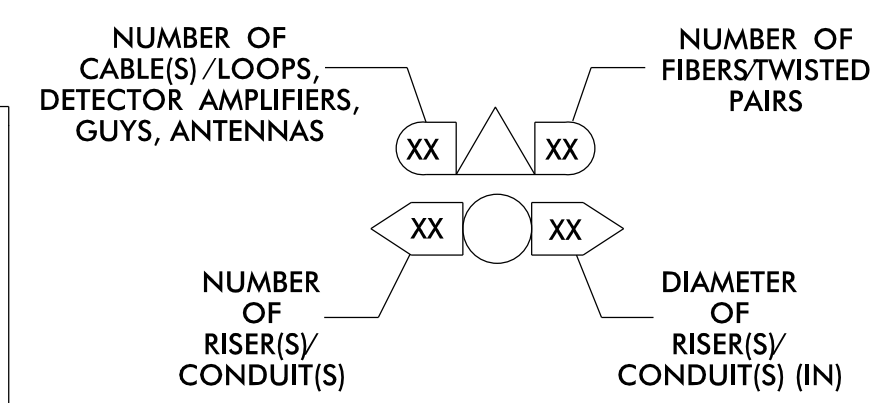
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YYY
XXX REFERENCE POINT DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOLOGY KEY



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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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	55 LASH CABLE(S) TO EXISTING MESSENGER CABLE	66 BOND RISER TO POLE GROUND
2 INSTALL LOW VOLTAGE POWER CABLE (24VAC)	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	56 LASH CABLE(S) TO NEW MESSENGER CABLE	67 BOND TRACER WIRE TO EQUIPMENT GROUND BUS
3 INSTALL COMPOSITE CCTV CABLE	13 INSTALL HEAT SHRINK TUBING KIT	24 INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	34 INSTALL CABINET FOUNDATION	45 INSTALL STANDARD GUY ASSEMBLY	57 MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV	68 BOND TRACER WIRE TO POLE GROUND
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	58 INSTALL NEW ELECTRICAL SERVICE FOR CCTV OR RADIO	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	59 INSTALL NEW POLE MOUNTED CCTV CABINET (336)	70 INSTALL CCTV CABINET DISCONNECT
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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	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
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				54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	65 BOND MESSENGER TO POLE GROUND	77 INSTALL BASE MOUNTED CCTV CABINET WITH EXTENDER (336)

Prepared for the Offices of:

750 Greenfield Parkway, Garner, NC 27529

SCALE 1"=50'

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: AME/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

REVISIONS INIT. DATE

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

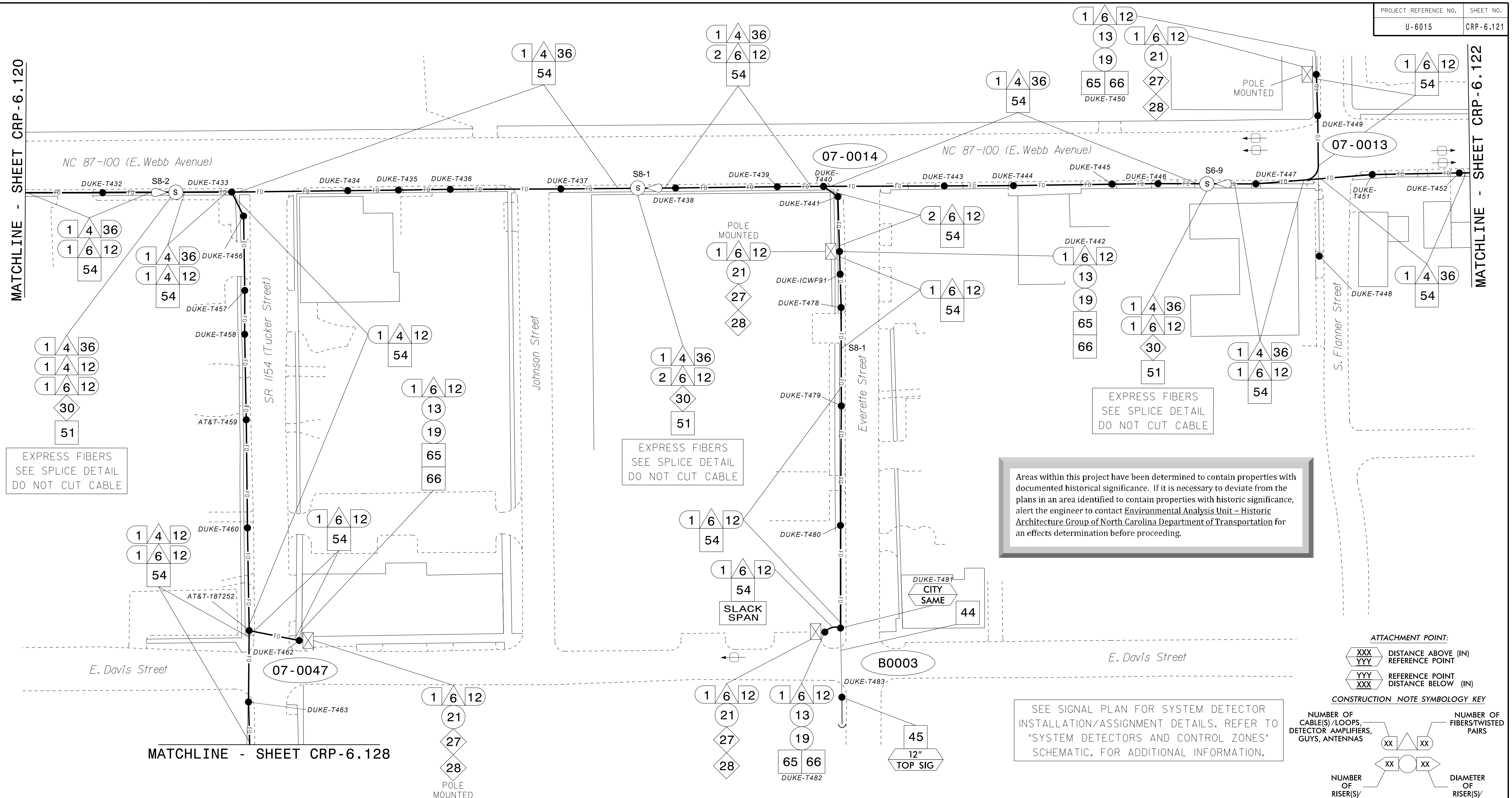
SEAL 025892

MELISSA B. TOTH

DocuSigned by: Melissa B. Toth 11/13/2018

CADD File name: CL-120.dgn

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 ENCA5396 AT LUS330048



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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 | 55 LASH CABLE(S) TO EXISTING MESSENGER CABLE | 66 BOND RISER TO POLE GROUND |
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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 | 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 |
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Areas within this project have been determined to contain properties with documented historical significance. If it is necessary to deviate from the plans in an area identified to contain properties with historic significance, alert the engineer to contact Environmental Analysis Unit - Historic Architecture Group of North Carolina Department of Transportation for an effects determination before proceeding.

EXPRESS FIBERS
SEE SPLICE DETAIL
DO NOT CUT CABLE

EXPRESS FIBERS
SEE SPLICE DETAIL
DO NOT CUT CABLE

EXPRESS FIBERS
SEE SPLICE DETAIL
DO NOT CUT CABLE

SEE SIGNAL PLAN FOR SYSTEM DETECTOR INSTALLATION/ASSIGNMENT DETAILS. REFER TO "SYSTEM DETECTORS AND CONTROL ZONES" SCHEMATIC. FOR ADDITIONAL INFORMATION.

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

CONSTRUCTION NOTE SYMBOLOLOGY KEY
NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS, ANTENNAS
NUMBER OF RISER(S)/CONDUIT(S)
NUMBER OF FIBER/TWISTED PAIRS
DIAMETER OF RISER(S)/CONDUIT(S) (IN)

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

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth
PREPARED BY: AME/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

750 Greenfield Parkway, Garner, NC 27529

SCALE 0 50 1"=50'

REVISIONS INIT. DATE

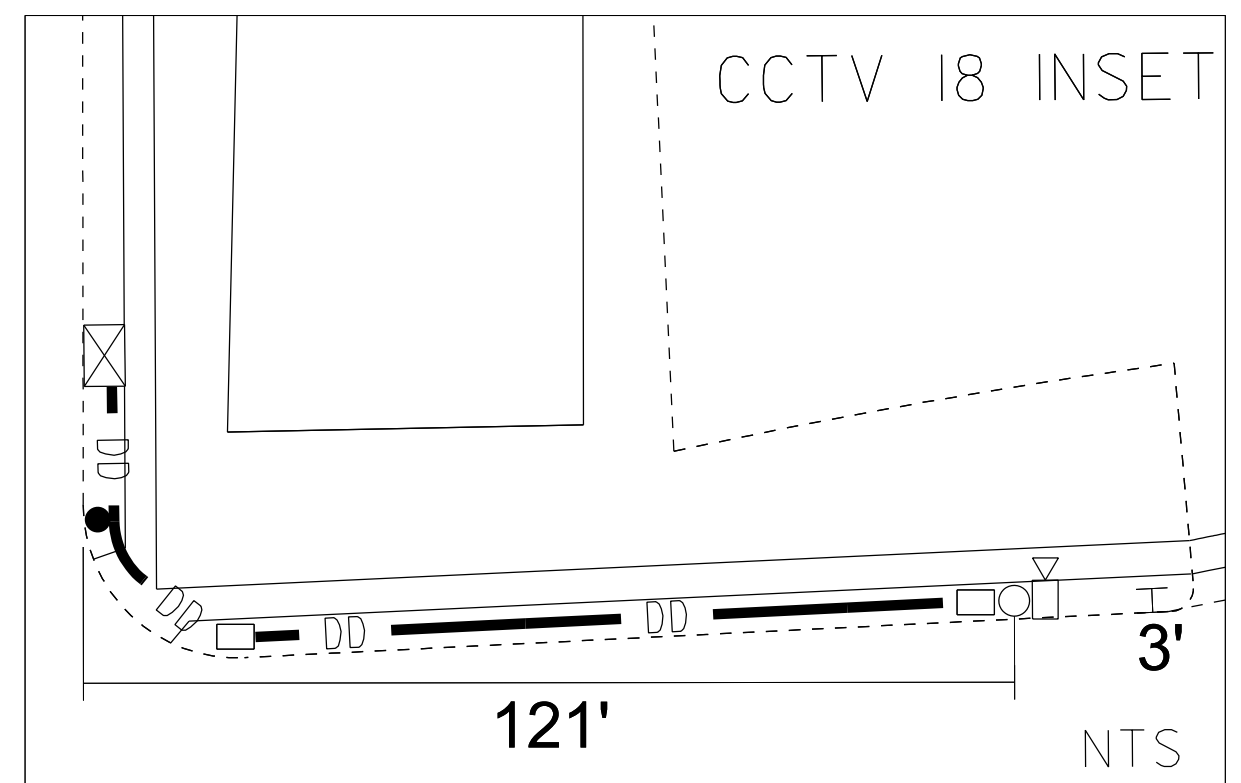
DocuSigned by: Melissa B. Toth 6/13/2018

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH 025892

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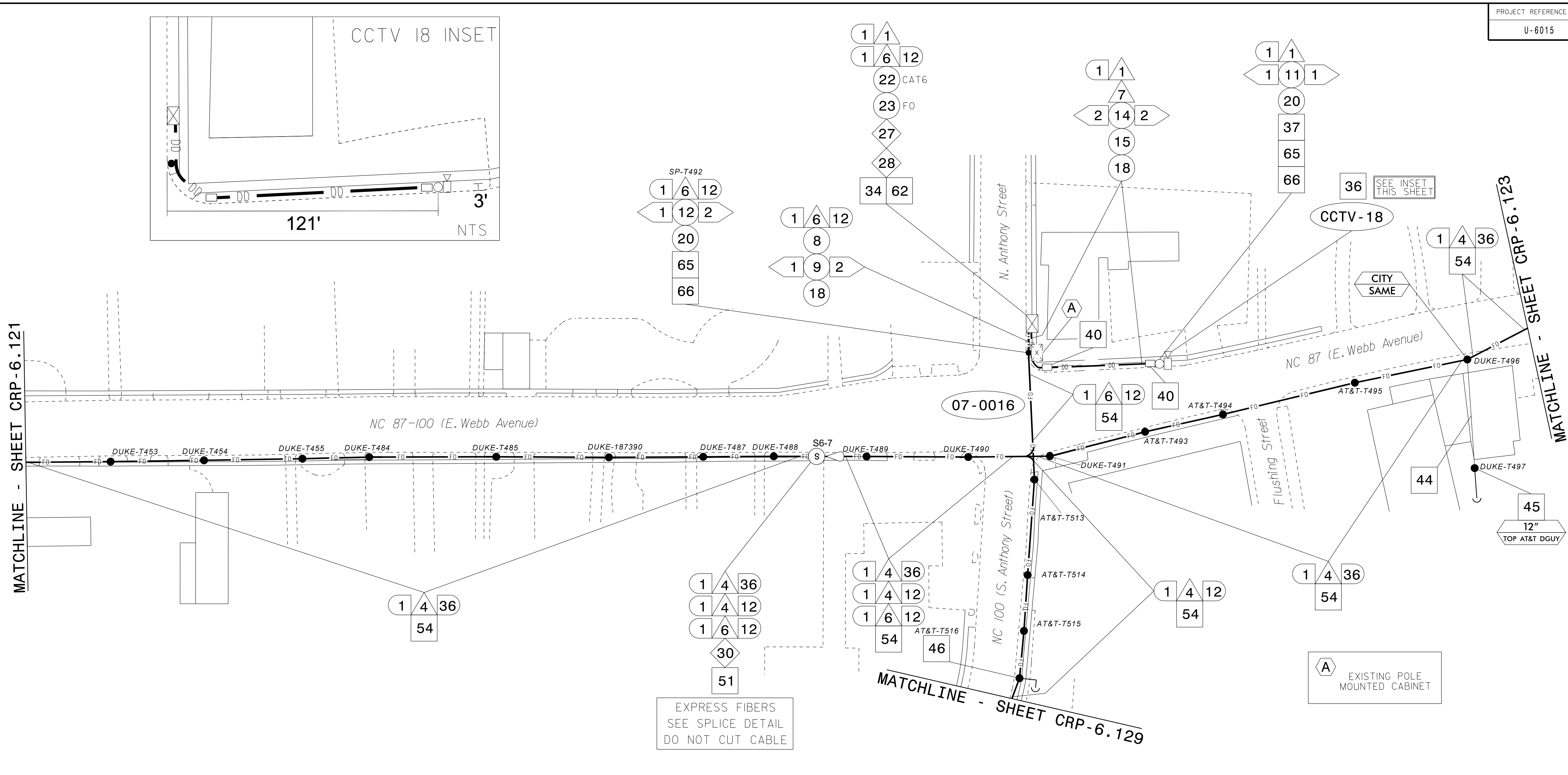
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MATCHLINE - SHEET CRP-6.121

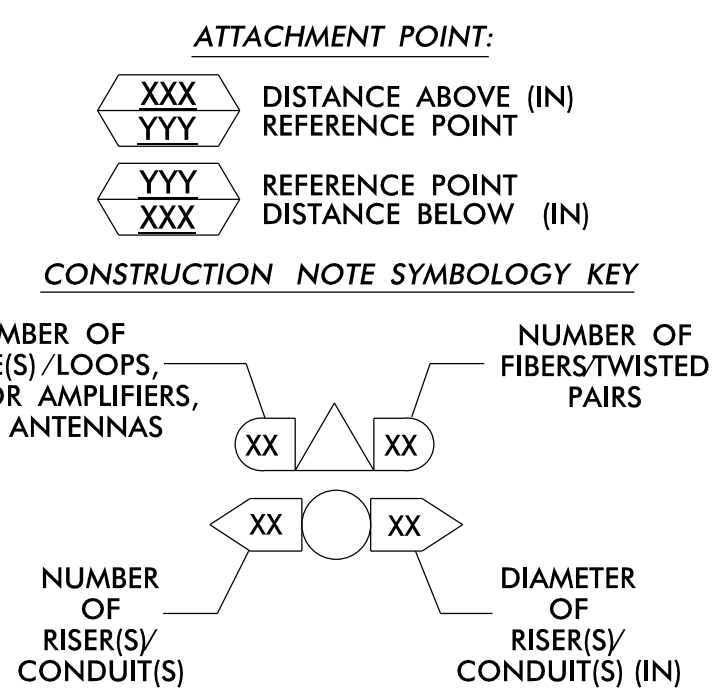
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EXPRESS FIBERS
SEE SPICE DETAIL
DO NOT CUT CABLE

A EXISTING POLE MOUNTED CABINET

- NOTES:
- UNLESS OTHERWISE NOTED:
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Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: AME/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

REVISIONS INIT. DATE

SCALE 0 50 1"=50'

750 Greenfield Parkway, Garner, NC 27529

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH 025892

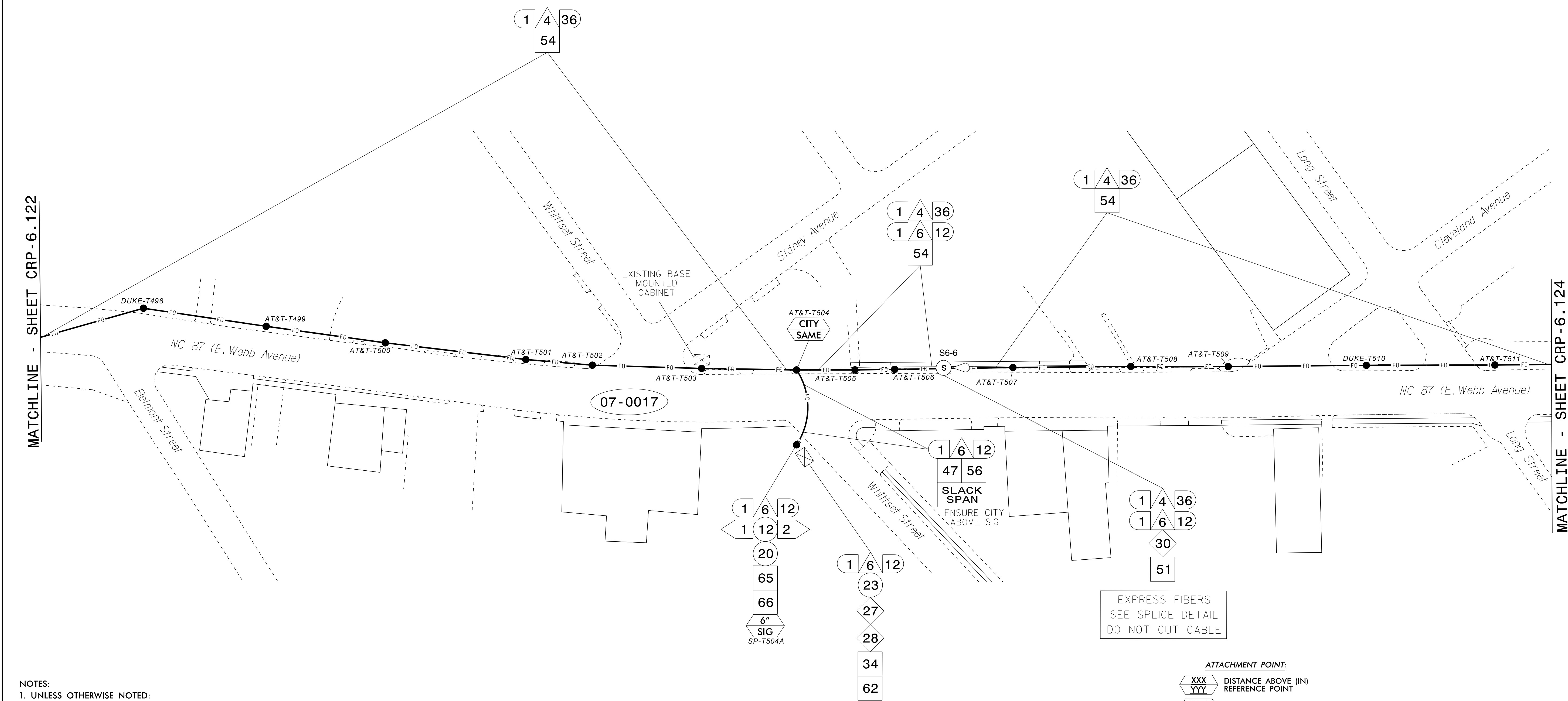
Melissa B. Toth 6/13/2018

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MATCHLINE - SHEET CRP-6.122

MATCHLINE - SHEET CRP-6.124



NOTES:

- UNLESS OTHERWISE NOTED:
 - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER.
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 AT LUS333048

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	55. LASH CABLE(S) TO EXISTING MESSENGER CABLE	66. BOND RISER TO POLE GROUND
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ATTACHMENT POINT:

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- YYY / XXX: REFERENCE POINT / DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOLOGY KEY

- XX: NUMBER OF CABLE(S) / LOOPS, DETECTOR, AMPLIFIERS, GUYS, ANTENNAS
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NCBEES #F-0326

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Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018

PREPARED BY: AME/AJH/VJP/NAP/JAW

REVISIONS

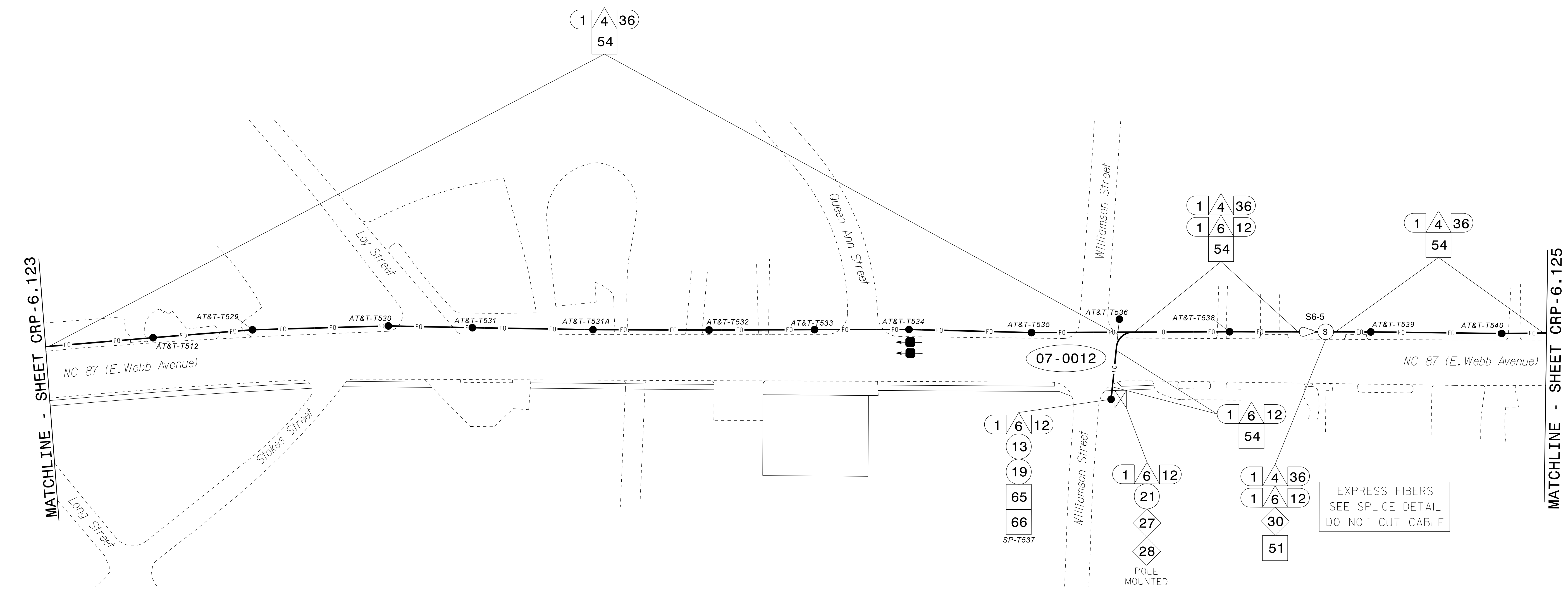
SEAL

Melissa B. Toth

13/2018

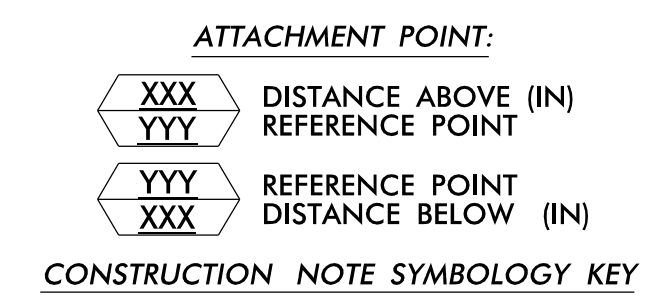
SCALE 1"=50'

CADD File name: CL-123.dgn



SEE SIGNAL PLAN FOR SYSTEM DETECTOR INSTALLATION/ASSIGNMENT DETAILS. REFER TO "SYSTEM DETECTORS AND CONTROL ZONES" SCHEMATIC. FOR ADDITIONAL INFORMATION.

- NOTES:**
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 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER.
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: ANE/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

SCALE: 1"=50'

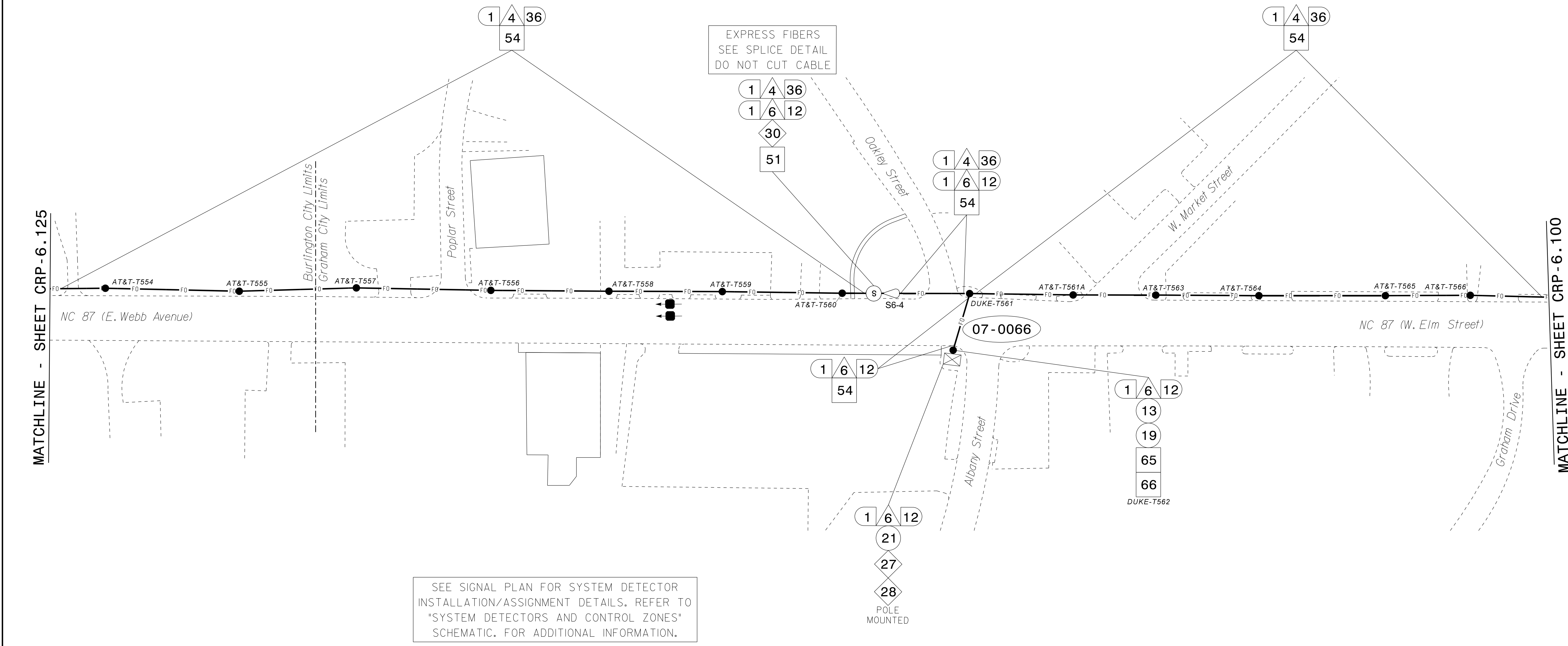
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DocuSigned by: Melissa B. Toth 025892 ENGINEER

DATE: 11/13/2018

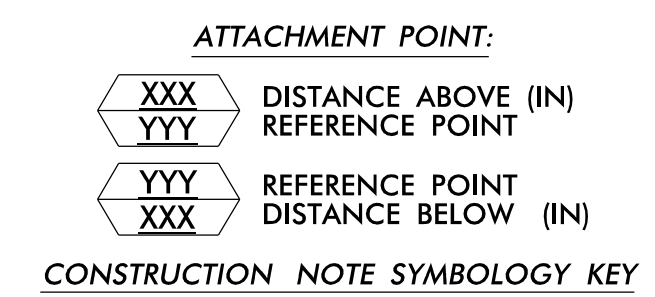
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SEE SIGNAL PLAN FOR SYSTEM DETECTOR INSTALLATION/ASSIGNMENT DETAILS. REFER TO "SYSTEM DETECTORS AND CONTROL ZONES" SCHEMATIC. FOR ADDITIONAL INFORMATION.

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- UNLESS OTHERWISE NOTED:
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 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER.
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

 NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION SYSTEMS

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: ANE/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

REVISIONS INIT. DATE

SCALE: 1"=50'

DocuSigned by:
 Melissa B. Toth, 13/2018
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MATCHLINE - SHEET CRP-6.025

Areas within this project have been determined to contain properties with documented historical significance. If it is necessary to deviate from the plans in an area identified to contain properties with historic significance, alert the engineer to contact Environmental Analysis Unit - Historic Architecture Group of North Carolina Department of Transportation for an effects determination before proceeding.

MATCHLINE - SHEET CRP-6.116

- NOTES:
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SEE SIGNAL PLAN FOR SYSTEM DETECTOR INSTALLATION/ASSIGNMENT DETAILS. REFER TO "SYSTEM DETECTORS AND CONTROL ZONES" SCHEMATIC. FOR ADDITIONAL INFORMATION.

ATTACHMENT POINT:
XXX DISTANCE ABOVE (IN) REFERENCE POINT
YYY REFERENCE POINT
XXX DISTANCE BELOW (IN)
CONSTRUCTION NOTE SYMBOLOLOGY KEY

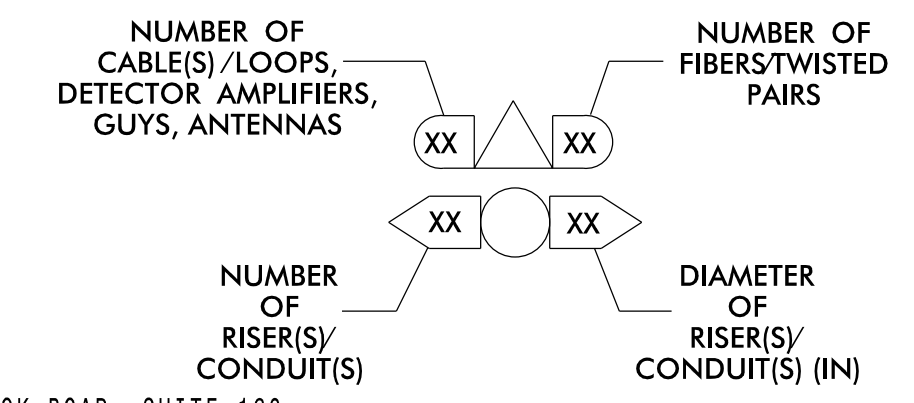
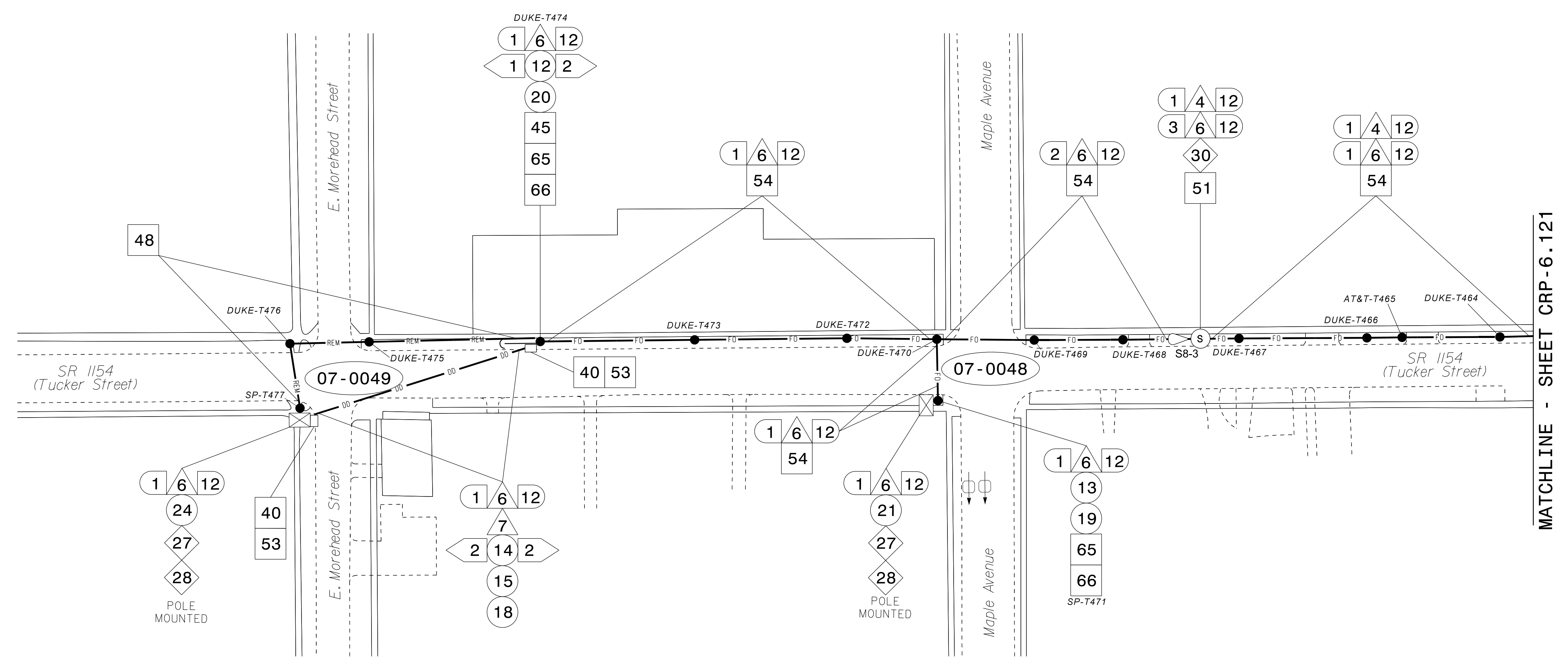


Table with 10 columns and 10 rows of construction notes, each with a circled number and a description of the work to be performed.

ATKINS logo and project information including 'Burlington-Graham Signal System Cable Routing Plans', 'Division 7 Alamance County', 'Plan Date: June 2018', and 'Prepared by: AWE/AJH/VJP/NAP/JAW'.

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MATCHLINE - SHEET CRP-6.121

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

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: AME/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

REVISIONS: INIT. DATE

SCALE: 1"=50'

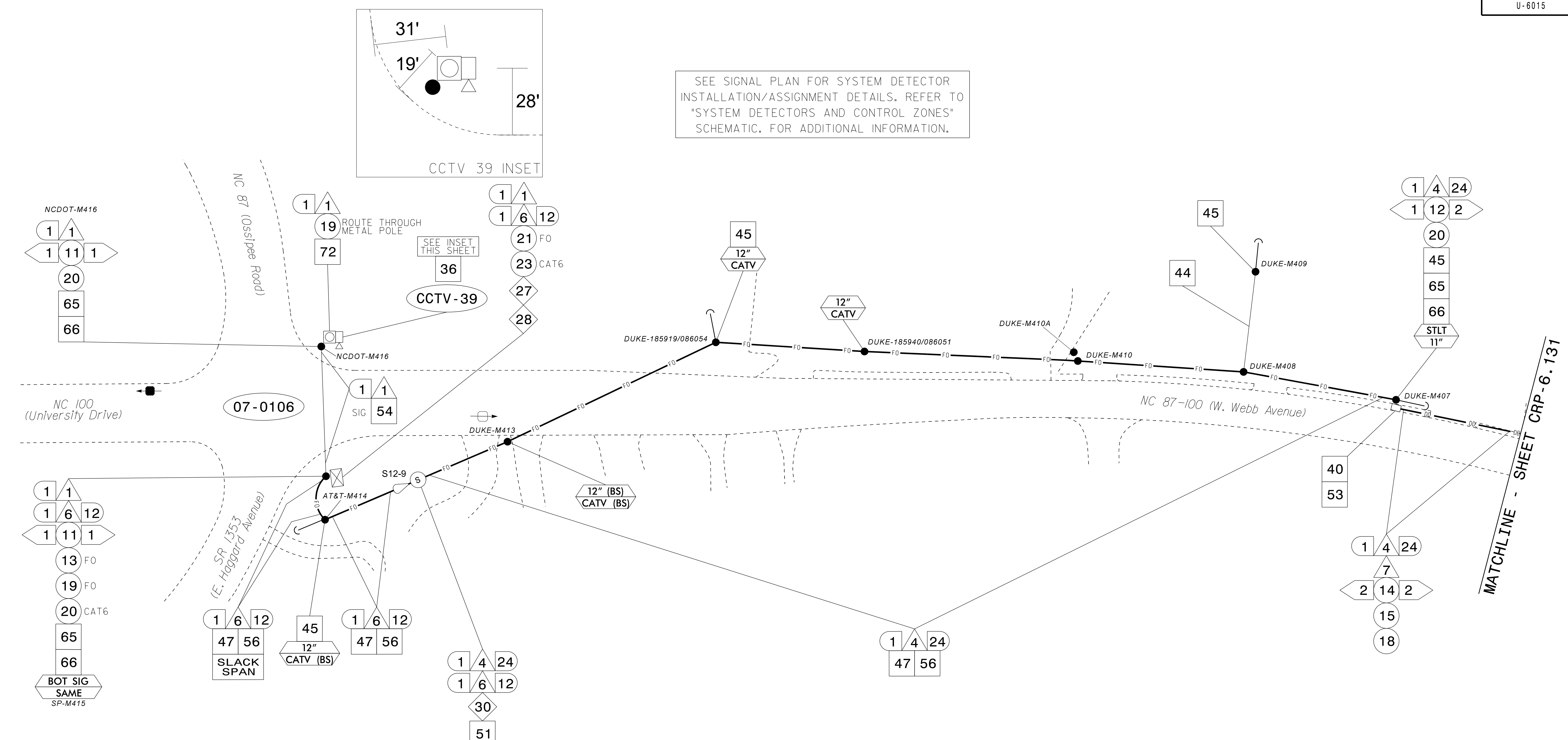
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SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH

DocuSigned by: Melissa B. Toth 6/13/2018

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SEE SIGNAL PLAN FOR SYSTEM DETECTOR
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MATCHLINE - SHEET CRP-6.131

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Division 7 Alamance County Burlington & Graham

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PREPARED BY: ANE/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

750 Greenfield Parkway, Garner, NC 27529

SCALE 0 50 1"=50'

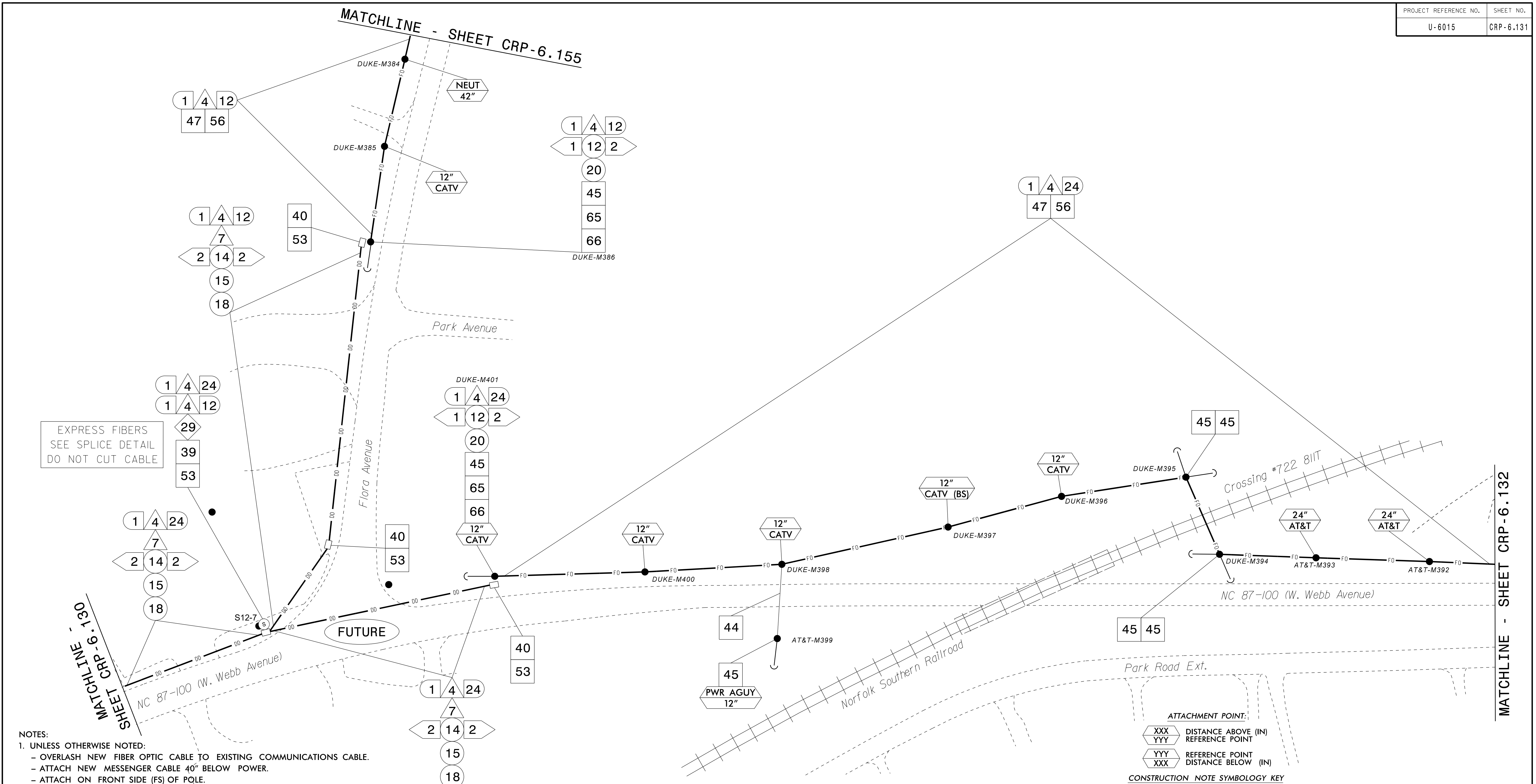
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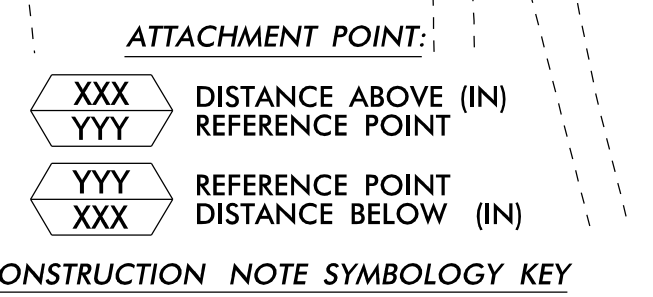
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3 INSTALL COMPOSITE CCTV CABLE	13 INSTALL HEAT SHRINK TUBING KIT	24 INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	34 INSTALL CABINET FOUNDATION	45 INSTALL STANDARD GUY ASSEMBLY	57 MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV	68 BOND TRACER WIRE TO POLE GROUND
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	58 INSTALL NEW ELECTRICAL SERVICE FOR CCTV OR RADIO	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	59 INSTALL NEW POLE MOUNTED CCTV CABINET (336)	70 INSTALL CCTV CABINET DISCONNECT
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
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(919) 876-6888 NCBEES #F-0326

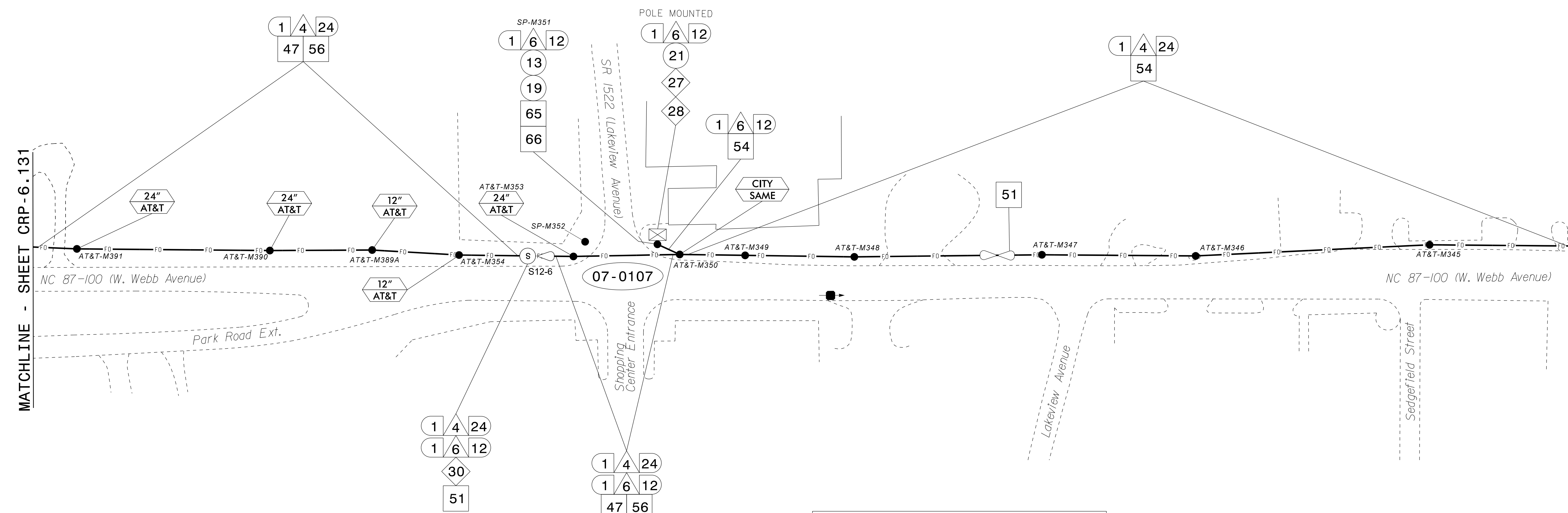
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of: 		Division 7 Alamance County Burlington & Graham Burlington-Graham Signal System Cable Routing Plans	
PLAN DATE: June 2018 PREPARED BY: AME/AJH/VJP/NAP/JAW		REVIEWED BY: M B Toth BJ Slocum	
SCALE 0 50 1"=50'		REVISIONS INIT. DATE	

DocuSigned by:
Melissa B. Toth
025892
13/2018
DATE

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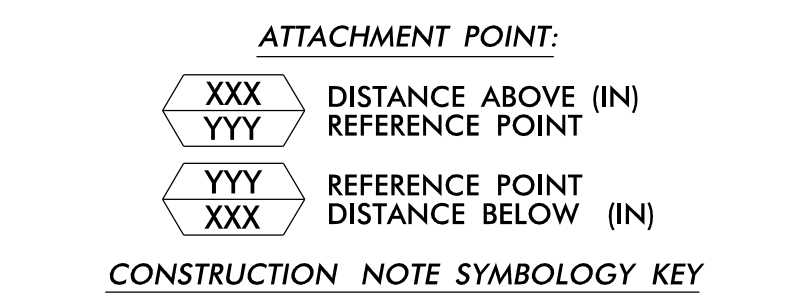


EXPRESS FIBERS
SEE SPLICE DETAIL
DO NOT CUT CABLE

SEE SIGNAL PLAN FOR SYSTEM DETECTOR
INSTALLATION/ASSIGNMENT DETAILS. REFER TO
"SYSTEM DETECTORS AND CONTROL ZONES"
SCHEMATIC. FOR ADDITIONAL INFORMATION.

NOTES:

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Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 PREPARED BY: AME/AJH/VJP/NAP/JAW REVIEWED BY: M B Toth

SCALE: 1"=50'

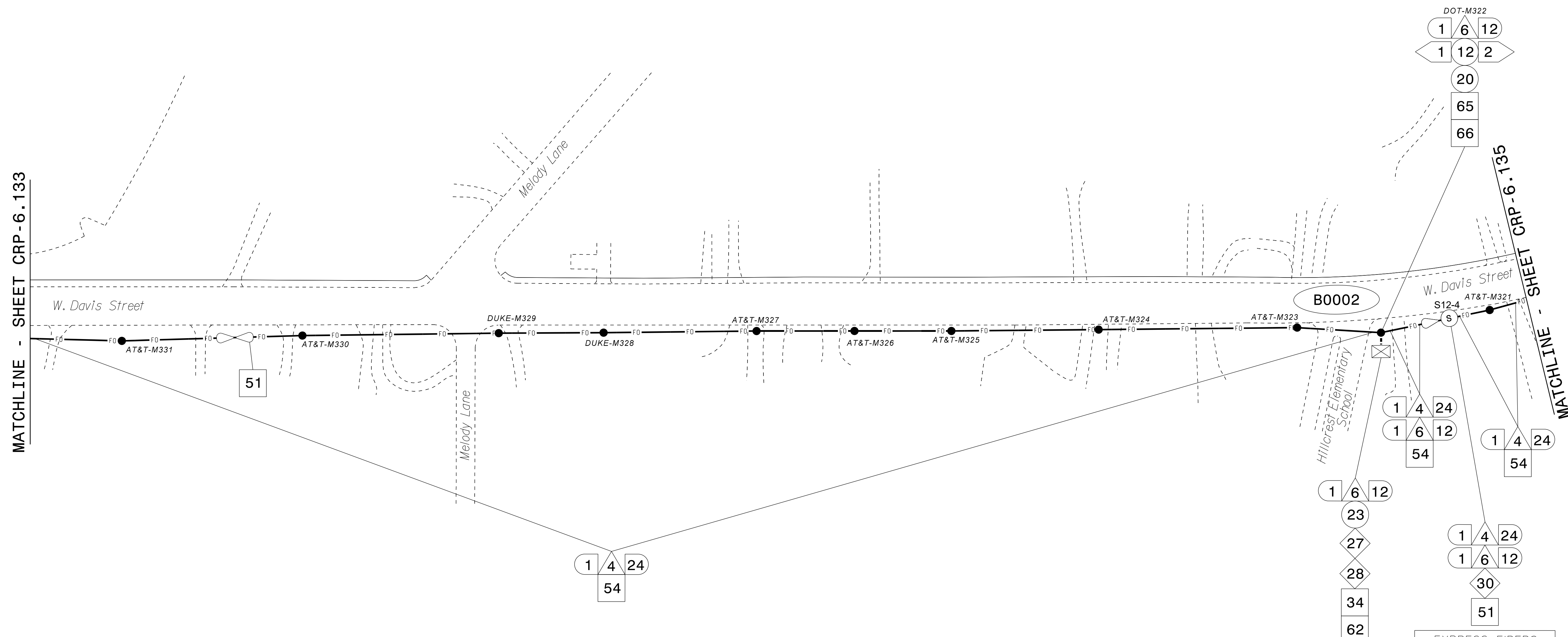
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DATE: 11/13/2018

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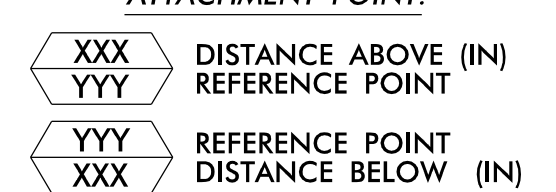
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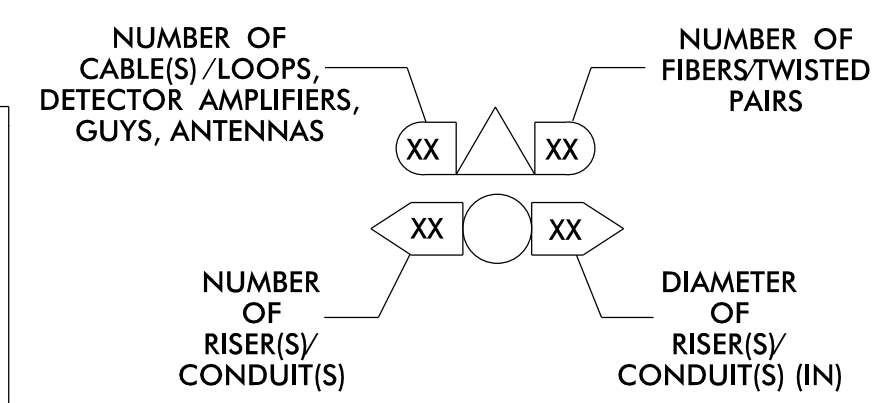
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ATTACHMENT POINT:



CONSTRUCTION NOTE SYMBOLOLOGY KEY



EXPRESS FIBERS
SEE SPLICE DETAIL
DO NOT CUT CABLE

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1616 EAST MILLBROOK ROAD, SUITE 160
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(919) 876-6888 NCBEES #F-0326

**Burlington-Graham Signal System
Cable Routing Plans**

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: ANE/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
MELISSA B. TOOTH
025892
13/2018

750 Greenfield Parkway, Garner, NC 27529

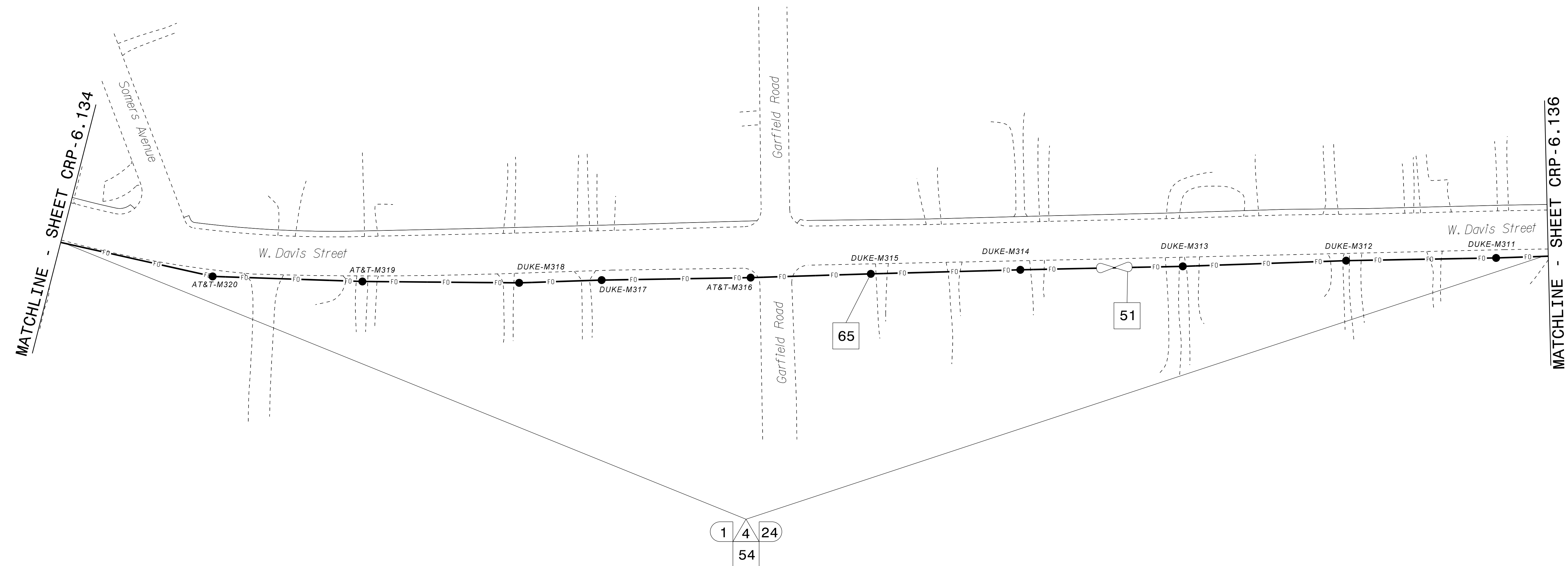
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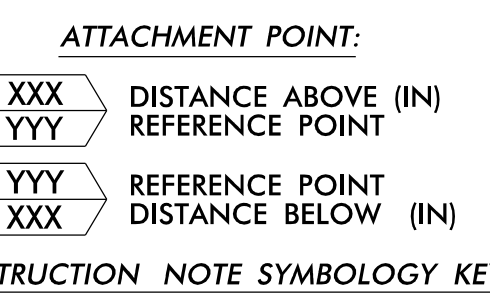
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Prepared for the Offices of:
Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth
 PREPARED BY: ANE/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

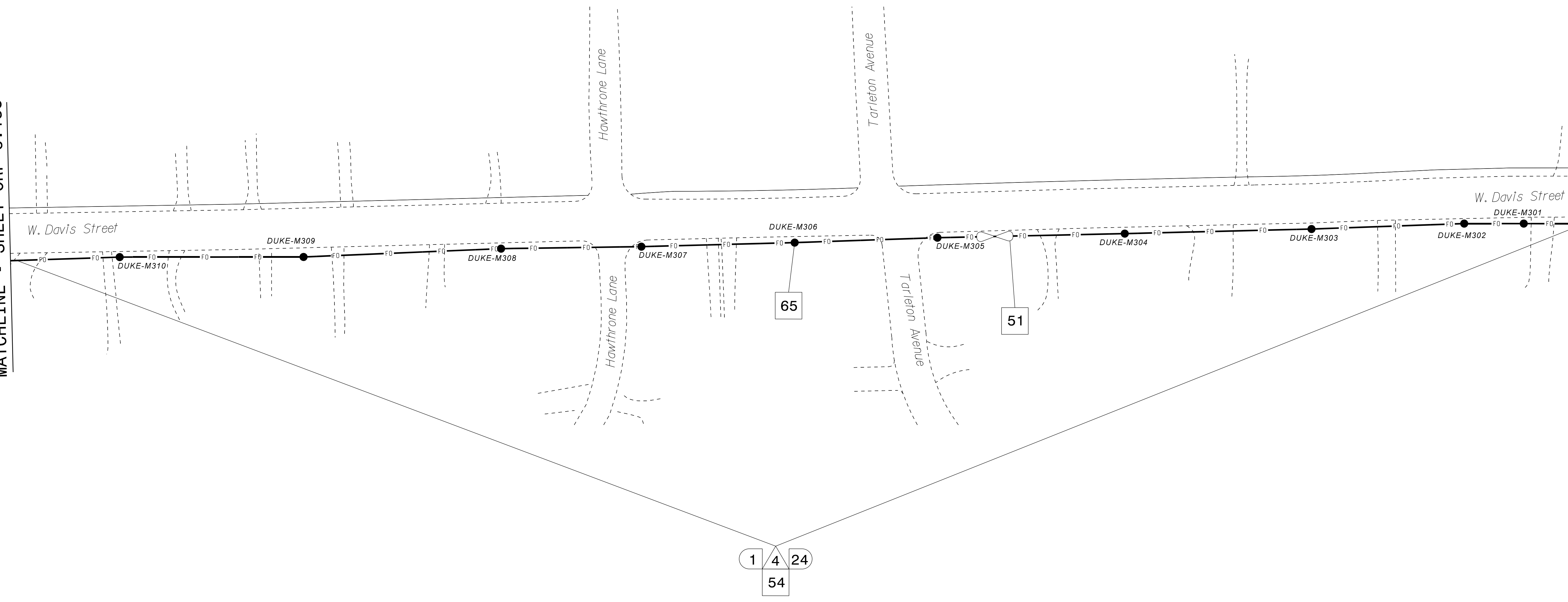
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Melissa B. Toth, 6/13/2018
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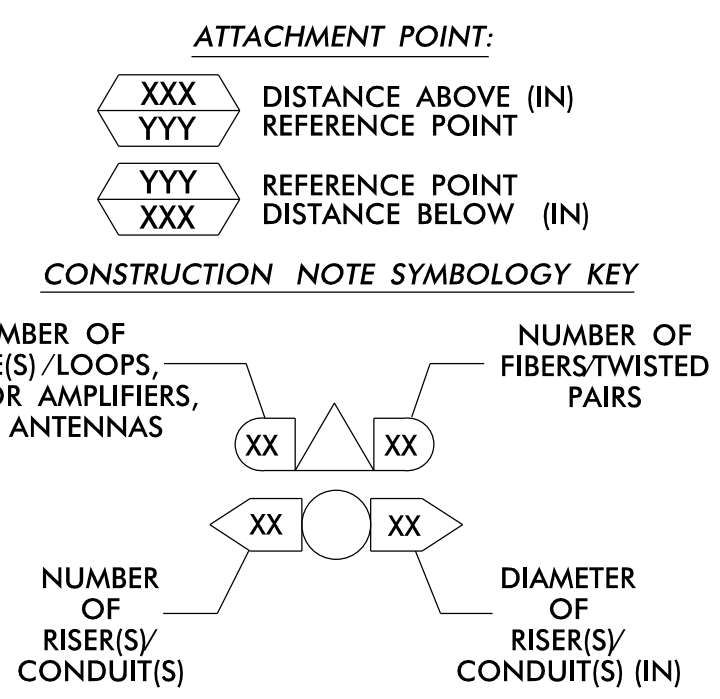
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MATCHLINE - SHEET CRP-6.138



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

Prepared for the Offices of:

 Department of Transportation and Safety
 State of North Carolina

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: AME/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

REVISIONS: INIT. DATE

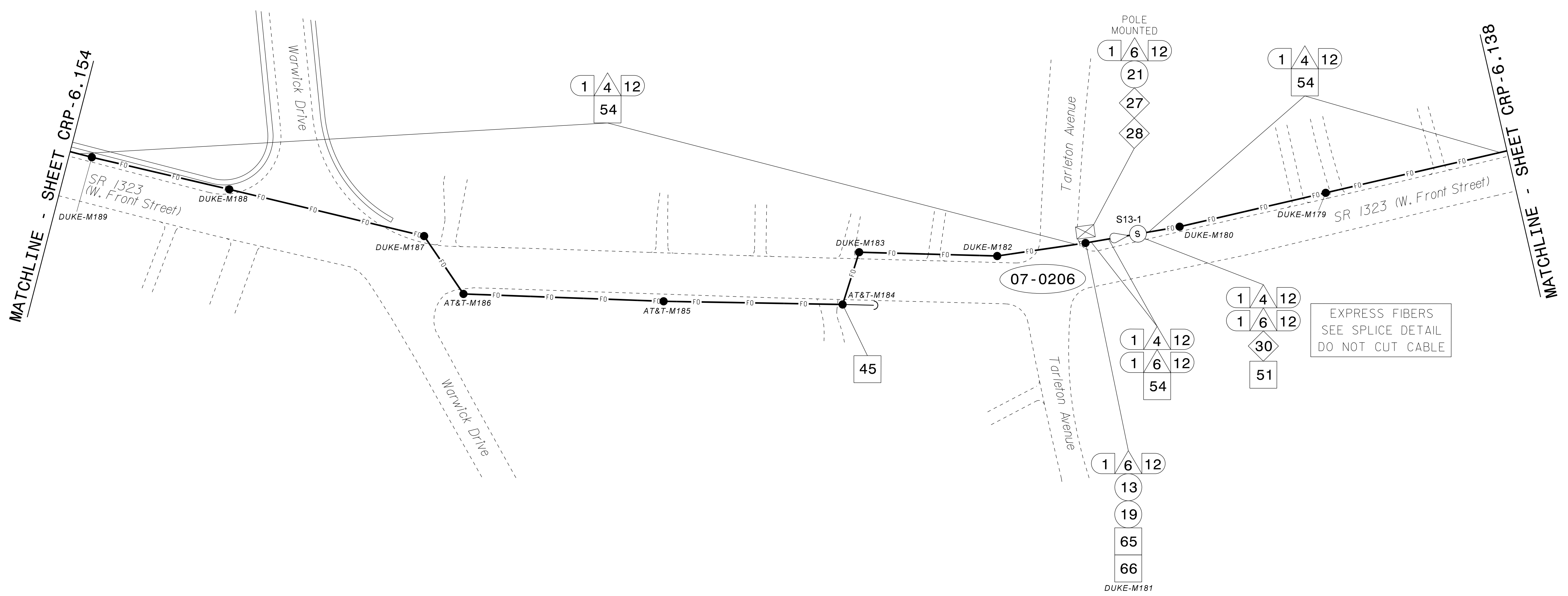
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DocuSigned by:

 Melissa B. Toth, 13/2018
 DATE: _____
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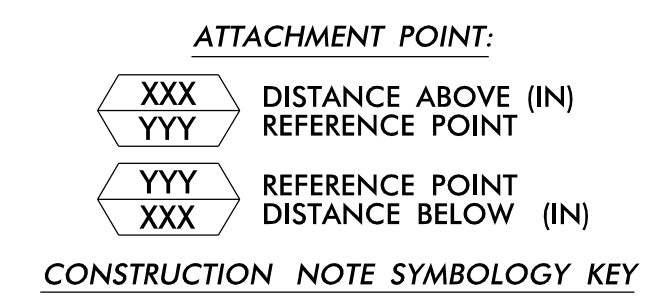
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 AT LUS3330048



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Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

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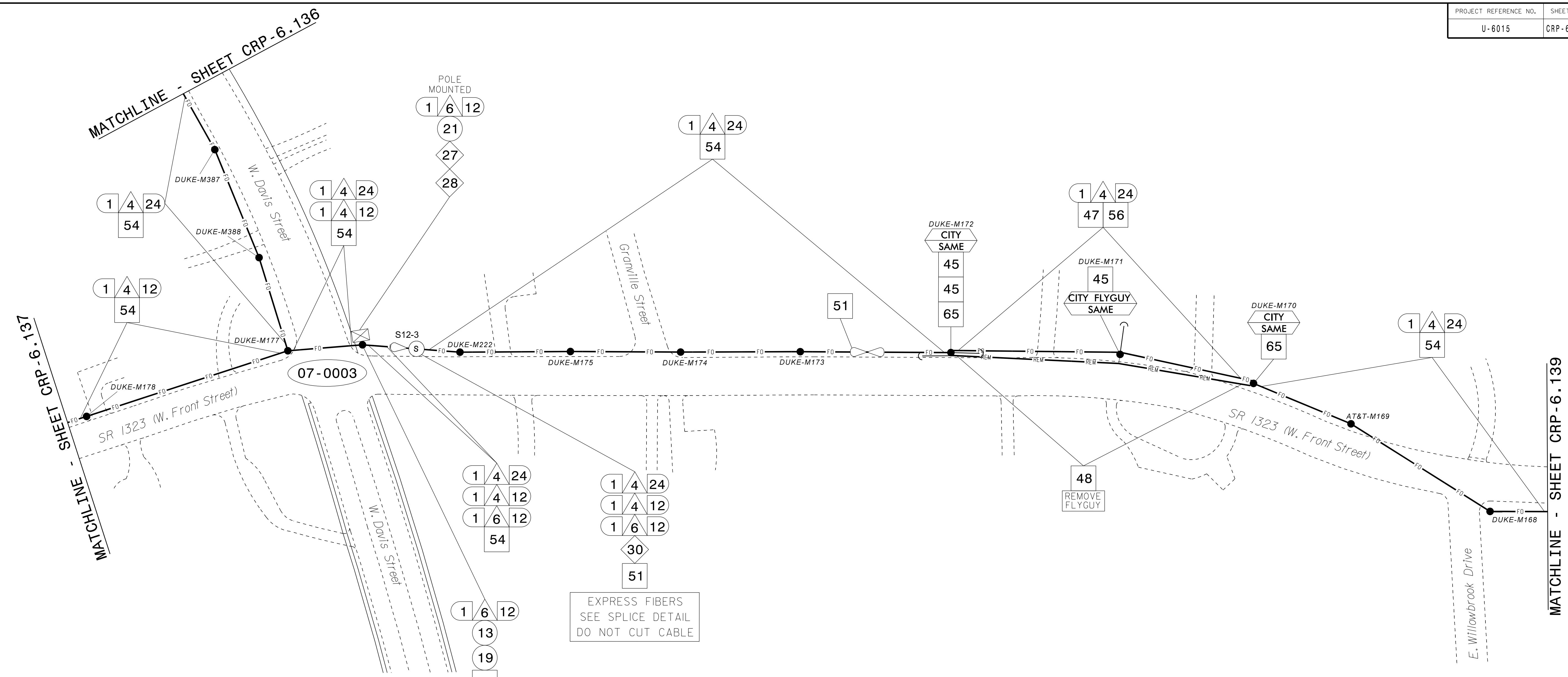
SCALE 1"=50'

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH 025892

DocuSigned by: Melissa B. Toth 6/13/2018

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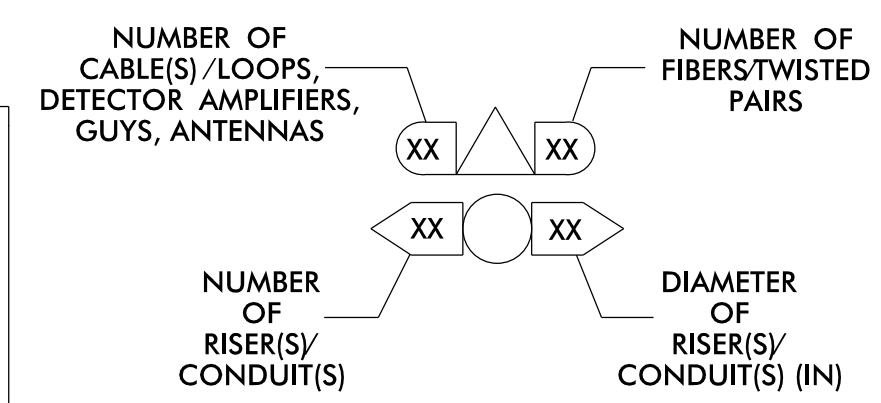


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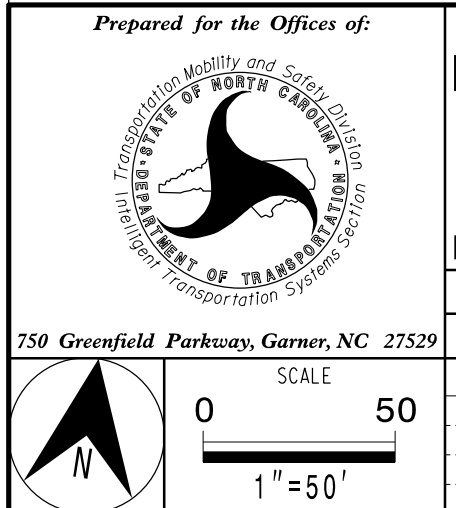
- ATTACHMENT POINT:
- XXX DISTANCE ABOVE (IN)
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- CONSTRUCTION NOTE SYMBOLOLOGY KEY



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Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: ANE/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

SCALE: 1"=50'

REVISIONS

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

MELISSA B. TOTTH

025892

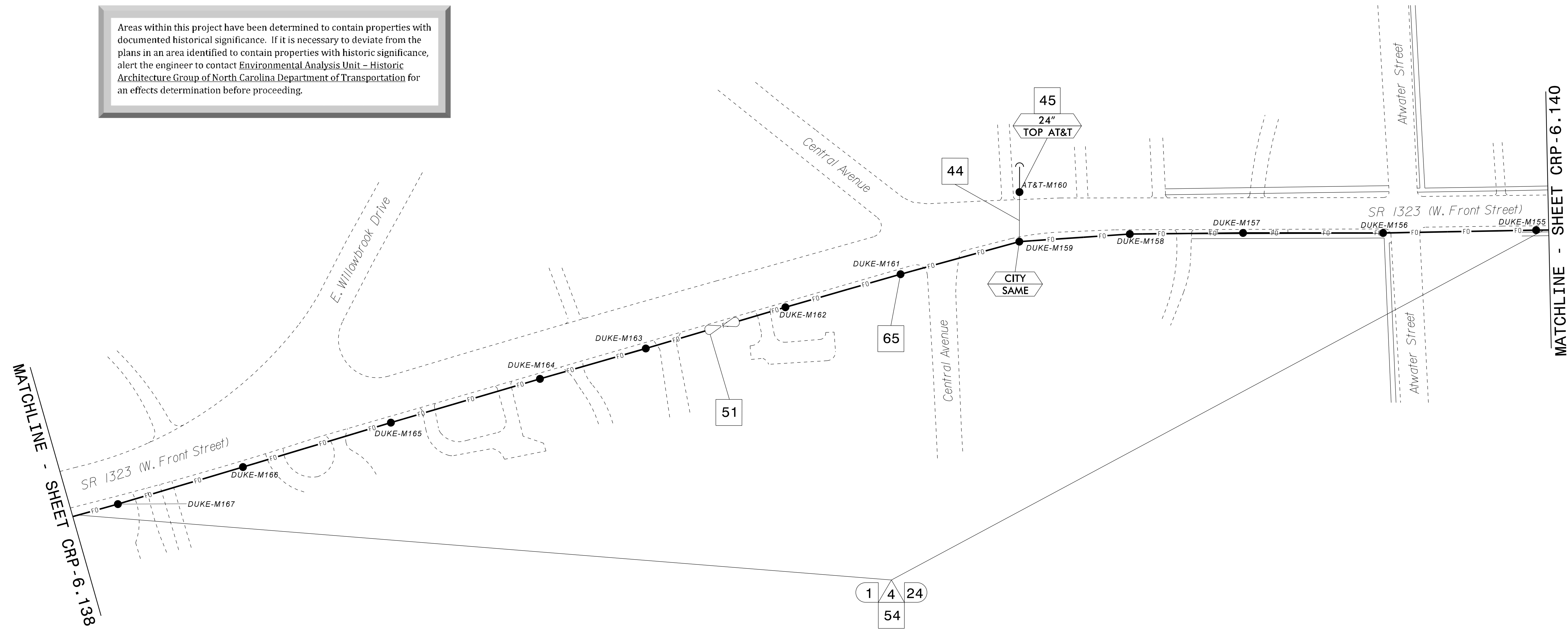
Melissa B. Toth, 11/13/2018

DATE

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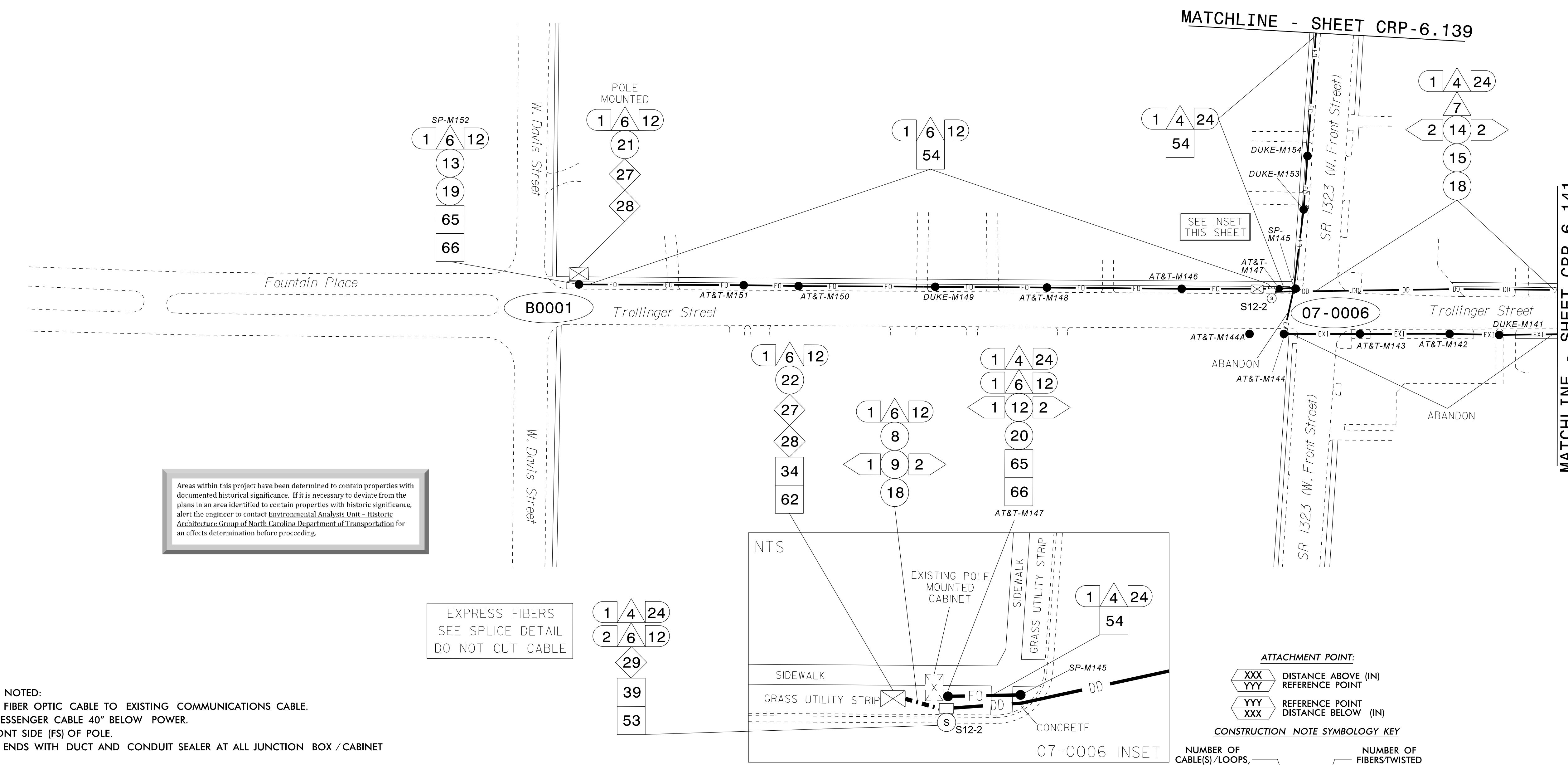
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YYY DISTANCE ABOVE (IN) REFERENCE POINT
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DIAMETER OF RISER(S) / CONDUIT(S) (IN)
NUMBER OF FIBER/TWISTED PAIRS

Table with 10 columns and 10 rows of construction notes. Column 1: 1-10. Column 2: 11-20. Column 3: 21-30. Column 4: 31-40. Column 5: 41-50. Column 6: 51-60. Column 7: 61-70. Column 8: 71-80. Column 9: 81-90. Column 10: 91-100. Each cell contains a circled number followed by a description of a task.

ATKINS logo and address: 1616 EAST MILLBROOK ROAD, SUITE 160, RALEIGH, NORTH CAROLINA 27609. Includes project title 'Burlington-Graham Signal System Cable Routing Plans', division info, plan date (June 2018), and a professional seal for Melissa B. Toth, Engineer, License No. 025892.

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ENC45396 AT LUS330048



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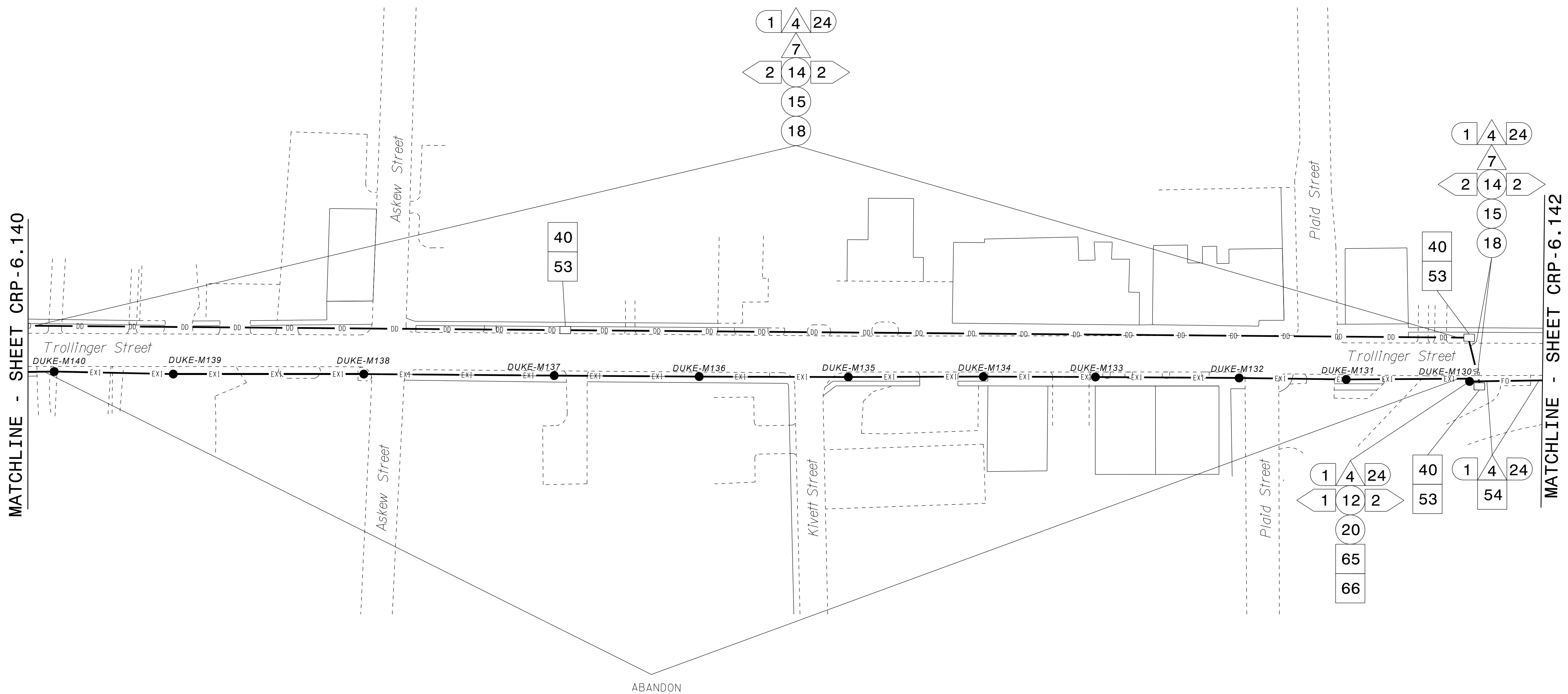
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DocuSigned by: Melissa B. Toth 025892

Melissa B. Toth 6/13/2018

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Prepared for the Offices of:
(Seal of the State of North Carolina)
DEPARTMENT OF TRANSPORTATION
Transportation System Solutions

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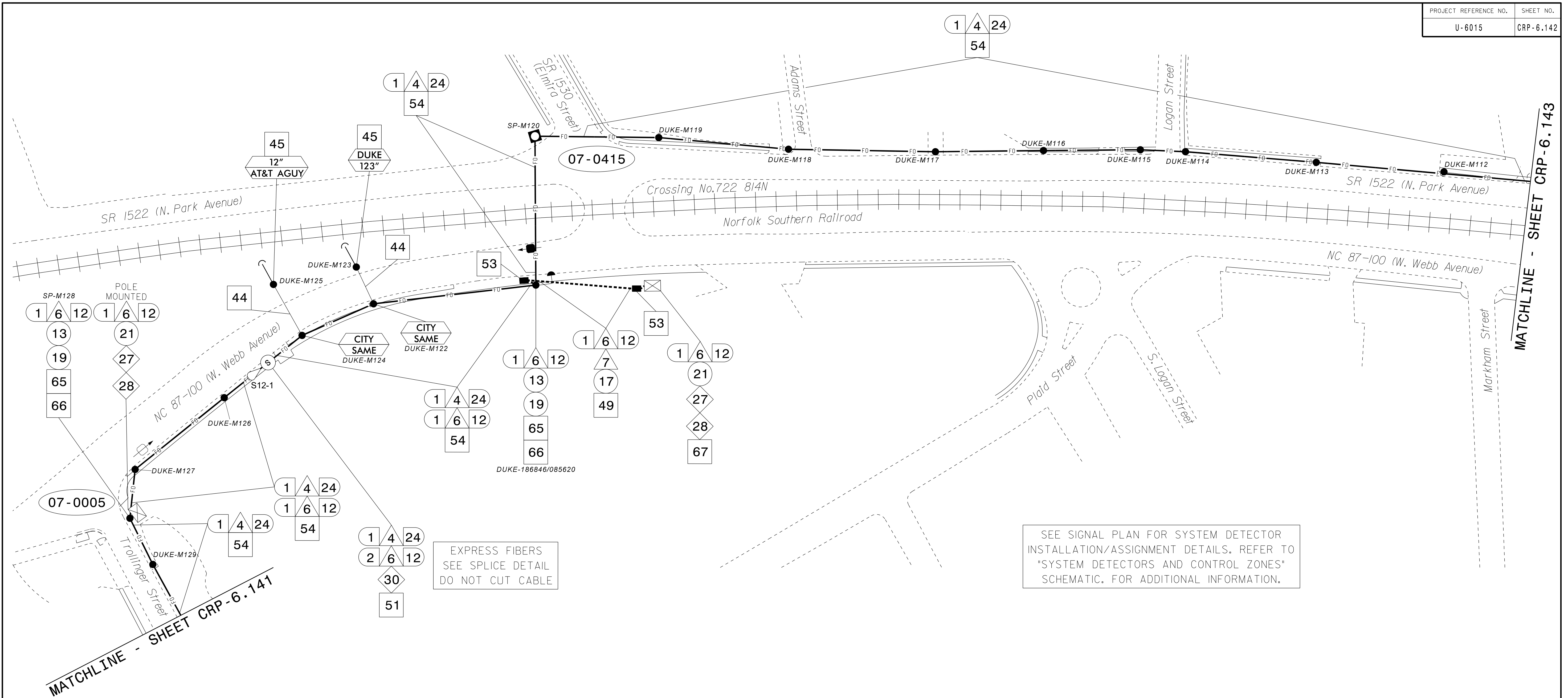
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REVISIONS	INIT.	DATE

CADD Filename: CL-141.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	55. LASH CABLE(S) TO EXISTING MESSENGER CABLE	66. BOND RISER TO POLE GROUND
2. INSTALL LOW VOLTAGE POWER CABLE (24VAC)	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	56. LASH CABLE(S) TO NEW MESSENGER CABLE	67. BOND TRACER WIRE TO EQUIPMENT GROUND BUS
3. INSTALL COMPOSITE CCTV CABLE	13. INSTALL HEAT SHRINK TUBING KIT	24. INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	34. INSTALL CABINET FOUNDATION	45. INSTALL STANDARD GUY ASSEMBLY	57. MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV	68. BOND TRACER WIRE TO POLE GROUND
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	58. INSTALL NEW ELECTRICAL SERVICE FOR CCTV OR RADIO	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	59. INSTALL NEW POLE MOUNTED CCTV CABINET (336)	70. INSTALL CCTV CABINET DISCONNECT
6. INSTALL FIBER-OPTIC DROP CABLE	16. BORE AND JACK CONDUIT	27. INSTALL NEW ETHERNET EDGE SWITCH IN CABINET	37. INSTALL CCTV WOOD POLE	48. REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	60. INSTALL NEW CCTV CABINET (NEMA TYPE 4)	71. INSTALL MANAGED ETHERNET SWITCH
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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
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			42. INSTALL WOOD POLE	53. STORE 30' OF COMMUNICATIONS CABLE (EACH CABLE)	64. INTERCEPT AND REROUTE EXISTING CONDUITS	76. INSTALL 2.4 GHZ RADIO AND PANEL ANTENNA
				54. LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	65. BOND MESSENGER TO POLE GROUND	77. INSTALL BASE MOUNTED CCTV CABINET WITH EXTENDER (336)

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 AT LUS333048
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- NOTES:**
- UNLESS OTHERWISE NOTED:
 - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER.
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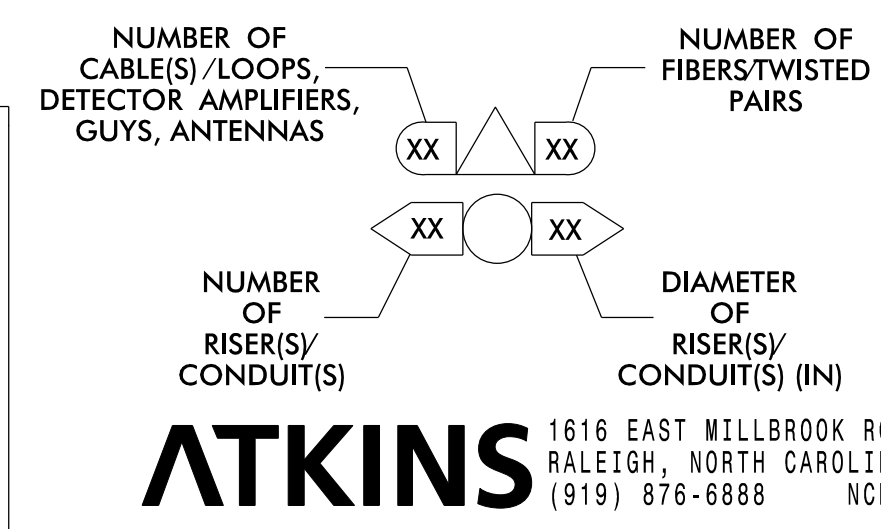
ATTACHMENT POINT:

XXX
YYY DISTANCE ABOVE (IN)
REFERENCE POINT

YYY
XXX REFERENCE POINT
DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOLOGY KEY

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	55 LASH CABLE(S) TO EXISTING MESSENGER CABLE	66 BOND RISER TO POLE GROUND
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3 INSTALL COMPOSITE CCTV CABLE	13 INSTALL HEAT SHRINK TUBING KIT	24 INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	34 INSTALL CABINET FOUNDATION	45 INSTALL STANDARD GUY ASSEMBLY	57 MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV	68 BOND TRACER WIRE TO POLE GROUND
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	58 INSTALL NEW ELECTRICAL SERVICE FOR CCTV OR RADIO	69 HANDLASH AND INSTALL AERIAL CABLE PROTECTOR
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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 SPLICE CABINET	41 REMOVE EXISTING JUNCTION BOX	52 INSTALL DELINEATOR MARKER	63 DRILL/CORE DRILL EXISTING FOUNDATION	75 BACKPULL AND COIL CITY IT CABLE
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				54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	65 BOND MESSENGER TO POLE GROUND	77 INSTALL BASE MOUNTED CCTV CABINET WITH EXTENDER (336)



Prepared for the Offices of:

 750 Greenfield Parkway, Garner, NC 27529

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 PREPARED BY: AWE/AJH/VJP/NAP/JAW REVIEWED BY: M B Toth

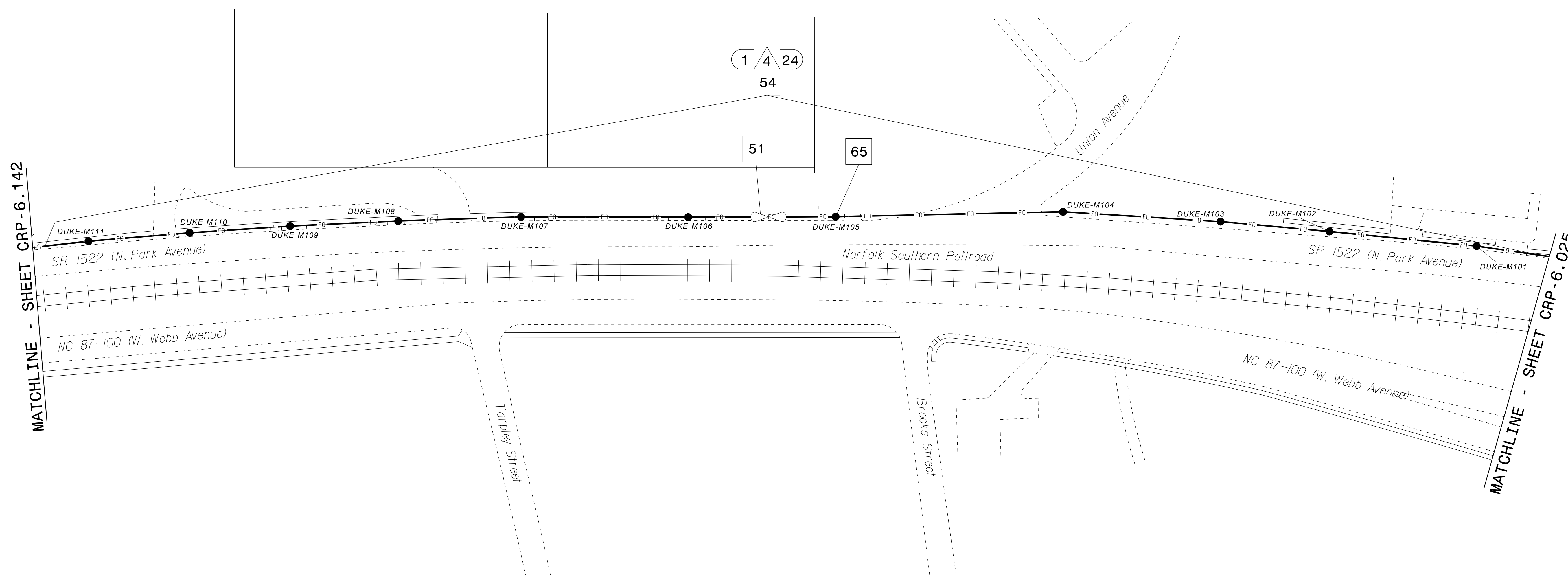
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SCALE: 1"=50'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Melissa B. Toth, 1/13/2018

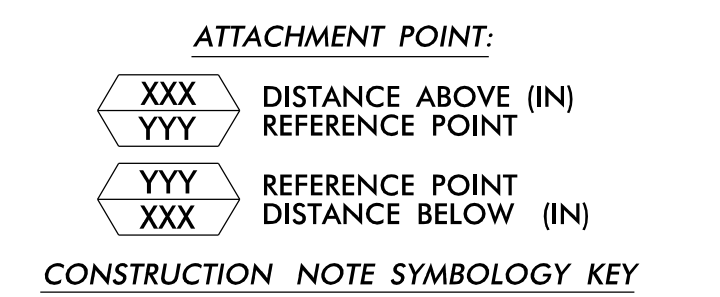
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MATCHLINE - SHEET CRP-6.142

MATCHLINE - SHEET CRP-6.025

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

Prepared for the Offices of: **STATE OF NORTH CAROLINA** DEPARTMENT OF TRANSPORTATION

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: ANE/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

REVISIONS INIT. DATE

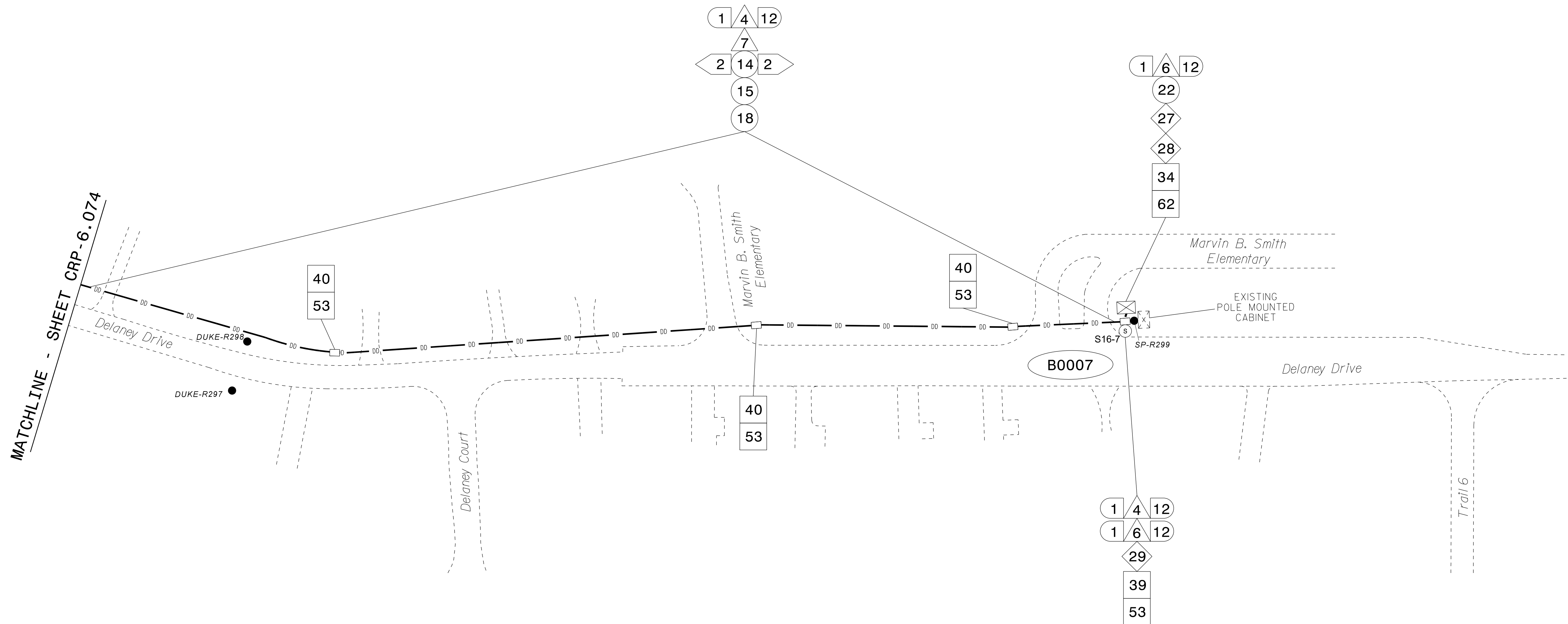
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SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH 025892

Melissa B. Toth 6/13/2018

CADD File name: CL-143.dgn

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ENC45386 AT LUS330048



NOTES:

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ATTACHMENT POINT:



CONSTRUCTION NOTE SYMBOLOLOGY KEY

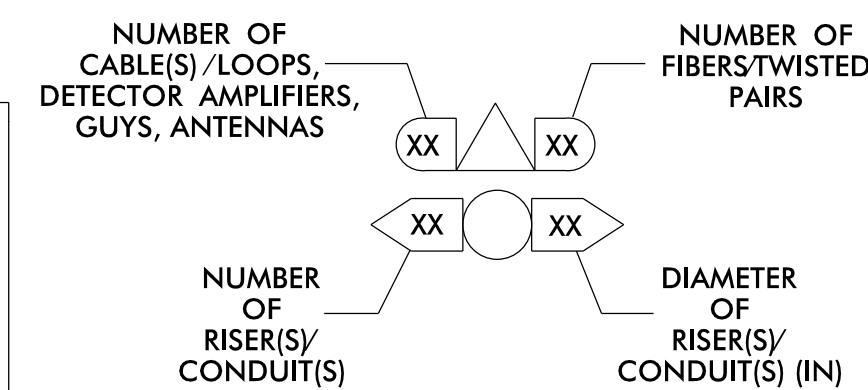


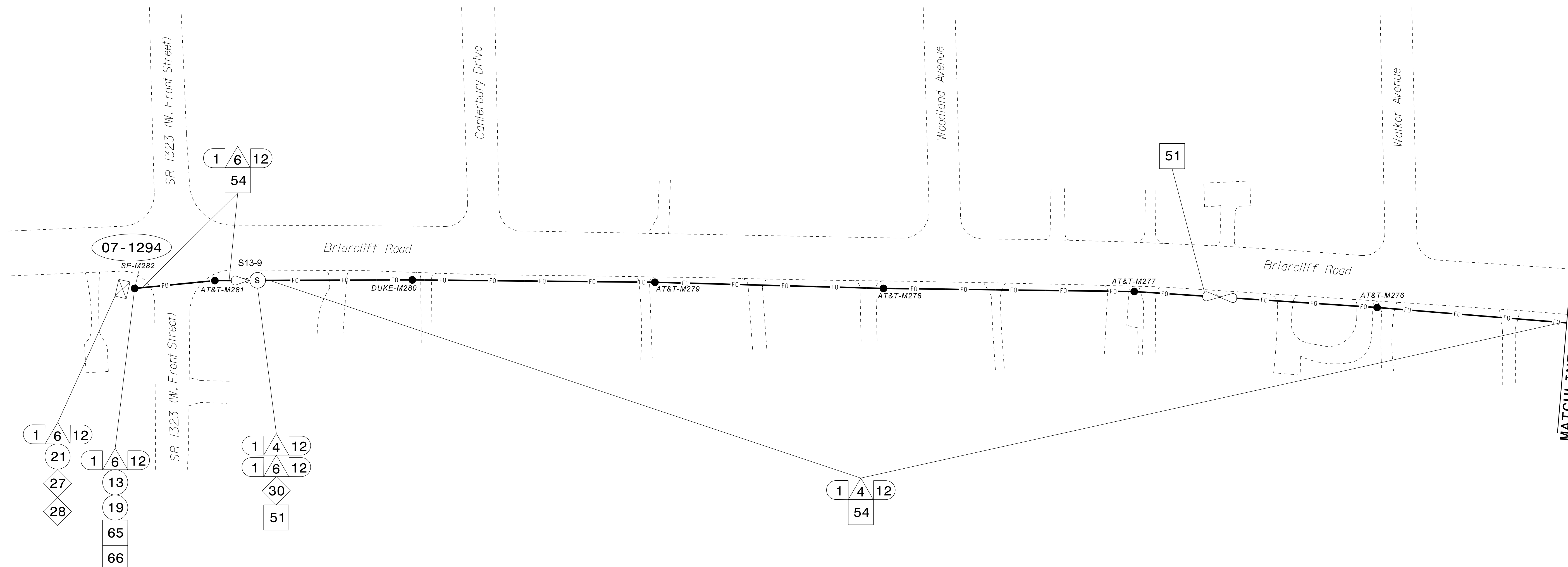
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Project information block including title 'Burlington-Graham Signal System Cable Routing Plans', division details, dates, and signature lines for Melissa B. Toth.

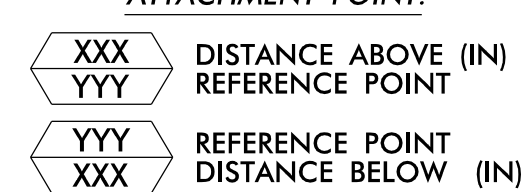
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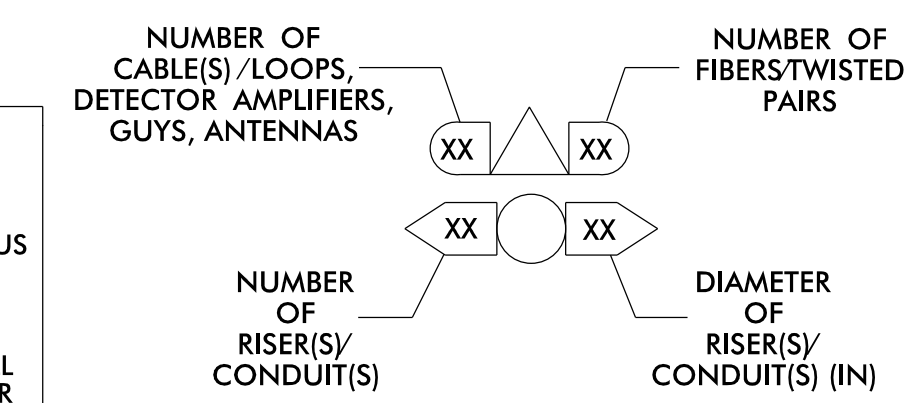
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CONSTRUCTION NOTE SYMBOLOLOGY KEY



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

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Prepared for the Offices of:

 State of North Carolina
 Department of Transportation

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

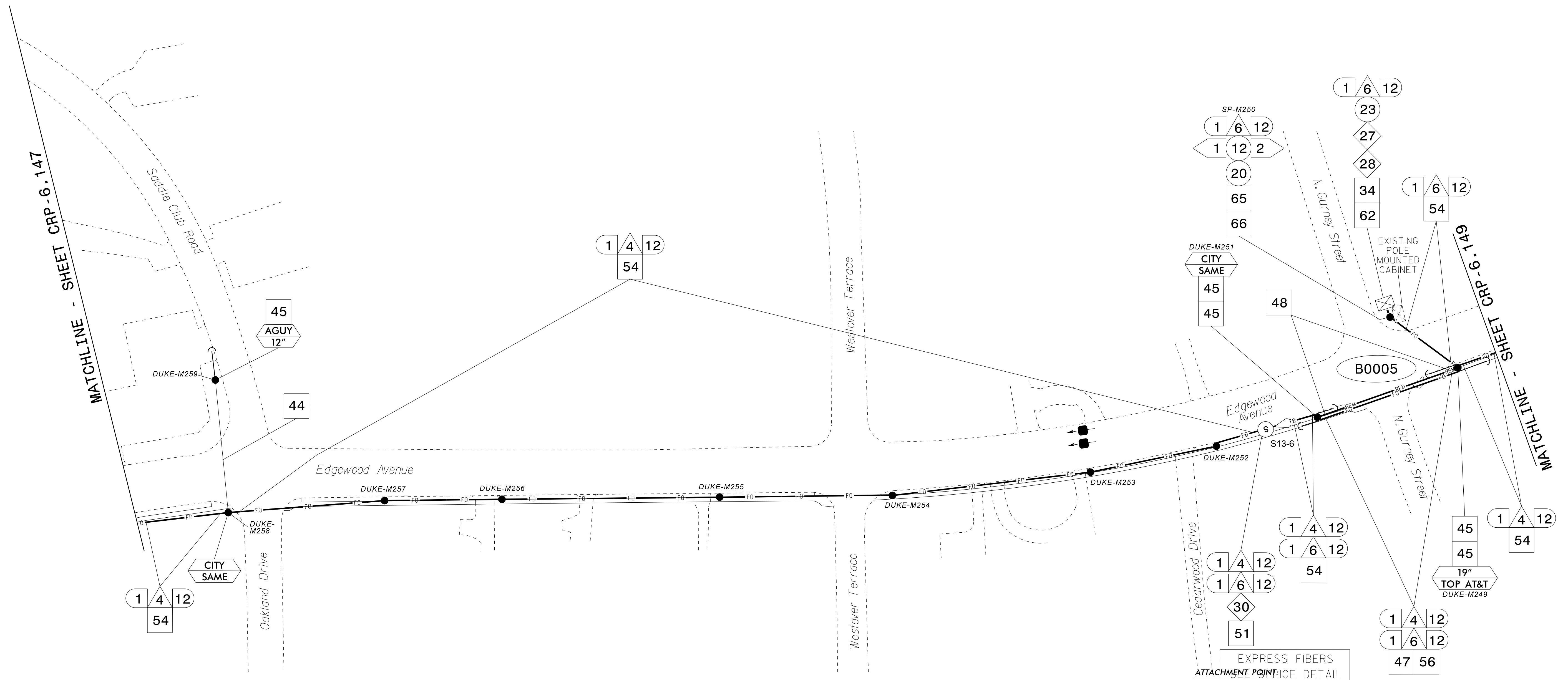
PLAN DATE: June 2018 REVIEWED BY: M B Toth
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750 Greenfield Parkway, Garner, NC 27529
 SCALE: 0 50
 1"=50'

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 MELISSA B. TOOTH
 025892
 MELISSA B. TOOTH
 11/13/2018
 DATE

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EXPRESS FIBERS ATTACHMENT POINT DETAIL

XXX
YYY DISTANCE ABOVE (IN) CABLE REFERENCE POINT

YYY
XXX REFERENCE POINT DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOLOGY KEY

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6 INSTALL FIBER-OPTIC DROP CABLE	16 BORE AND JACK CONDUIT	27 INSTALL NEW ETHERNET EDGE SWITCH IN CABINET	37 INSTALL CCTV WOOD POLE	48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	60 INSTALL NEW CCTV CABINET (NEMA TYPE 4)	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	60A INSTALL NEW POLE MOUNTED CABINET FOR ANTENNA (RADIO)	72 INSTALL CCTV METAL POLE
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: AME/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

REVISIONS INIT. DATE

SCALE 1"=50'

750 Greenfield Parkway, Garner, NC 27529

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH 025892

DocuSigned by: Melissa B. Toth 6/13/2018

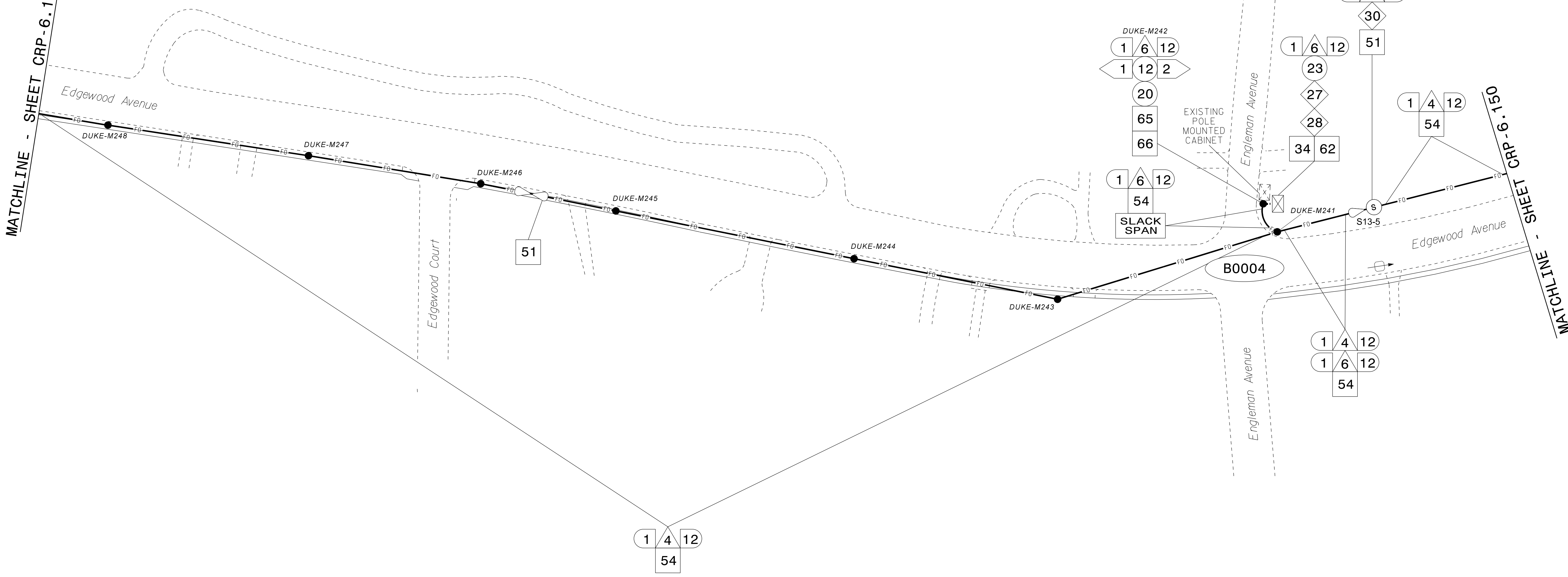
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EXPRESS FIBERS
SEE SPLICE DETAIL
DO NOT CUT CABLE

MATCHLINE - SHEET CRP-6.148

MATCHLINE - SHEET CRP-6.150



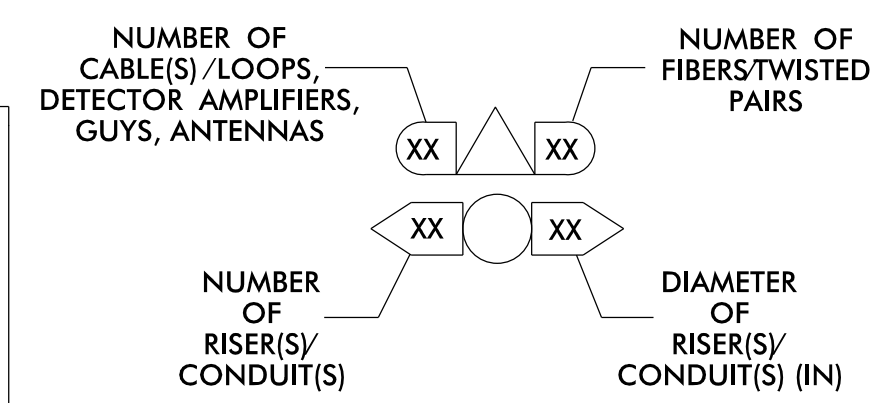
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 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER.
 - ATTACH ON FRONT SIDE (FS) OF POLE.
 - SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX / CABINET ENTRANCES.

ATTACHMENT POINT:

XXX
YYY DISTANCE ABOVE (IN)
REFERENCE POINT

YYY
XXX REFERENCE POINT
DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOLOGY KEY



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	55 LASH CABLE(S) TO EXISTING MESSENGER CABLE	66 BOND RISER TO POLE GROUND
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Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: AME/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

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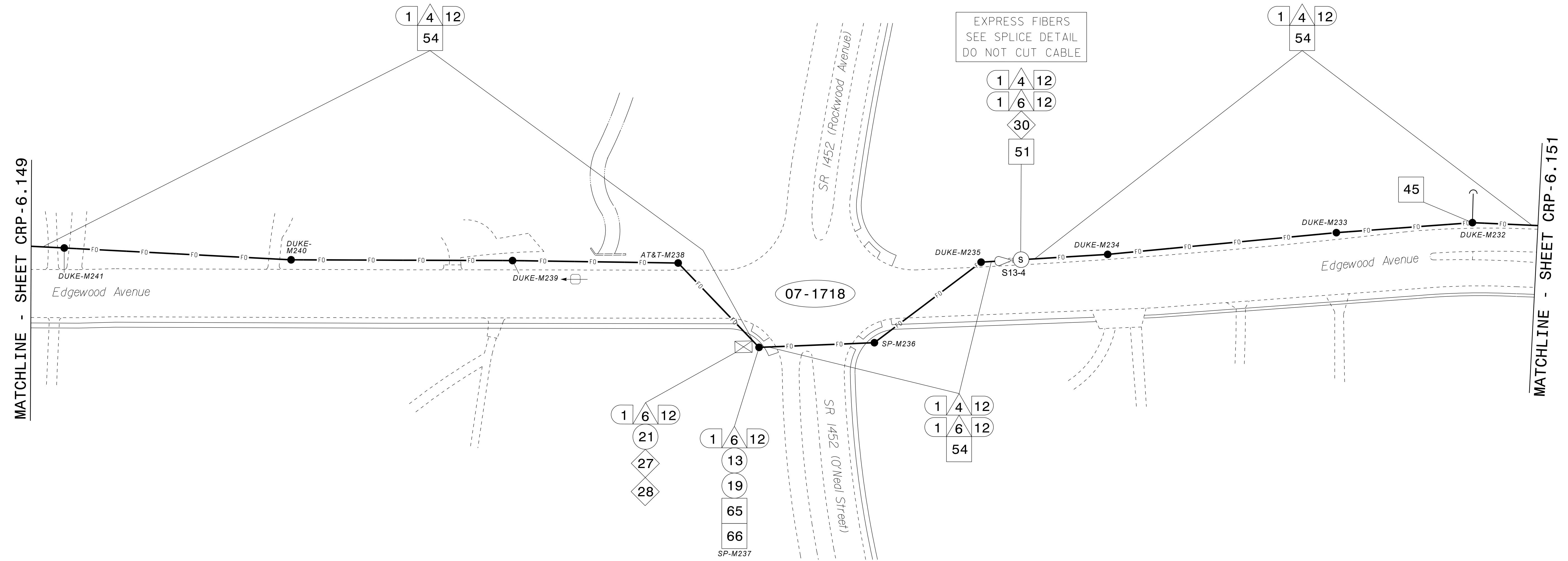
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SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH 025892

Melissa B. Toth 6/13/2018

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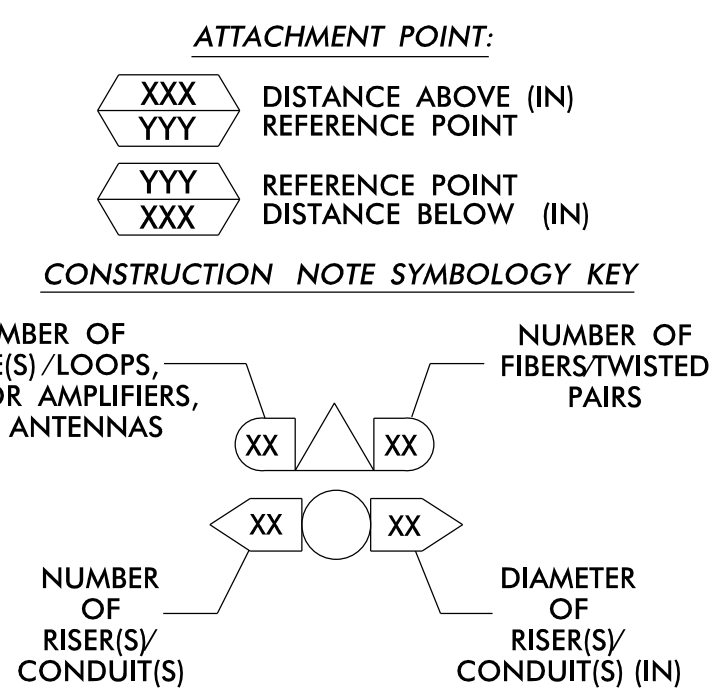
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MATCHLINE - SHEET CRP-6.149

MATCHLINE - SHEET CRP-6.151

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RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

 State of North Carolina
 Department of Transportation

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: ANE/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

REVISIONS INIT. DATE

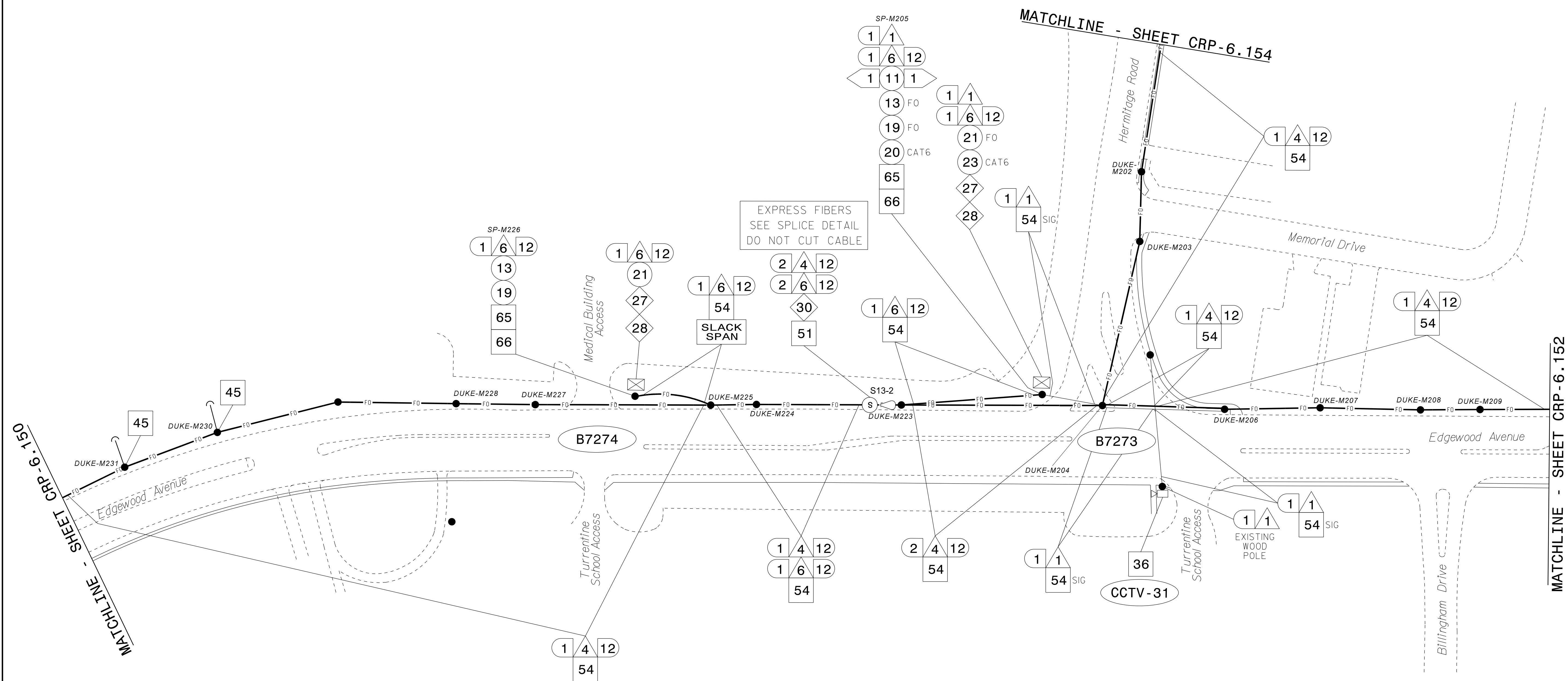
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DocuSigned by:

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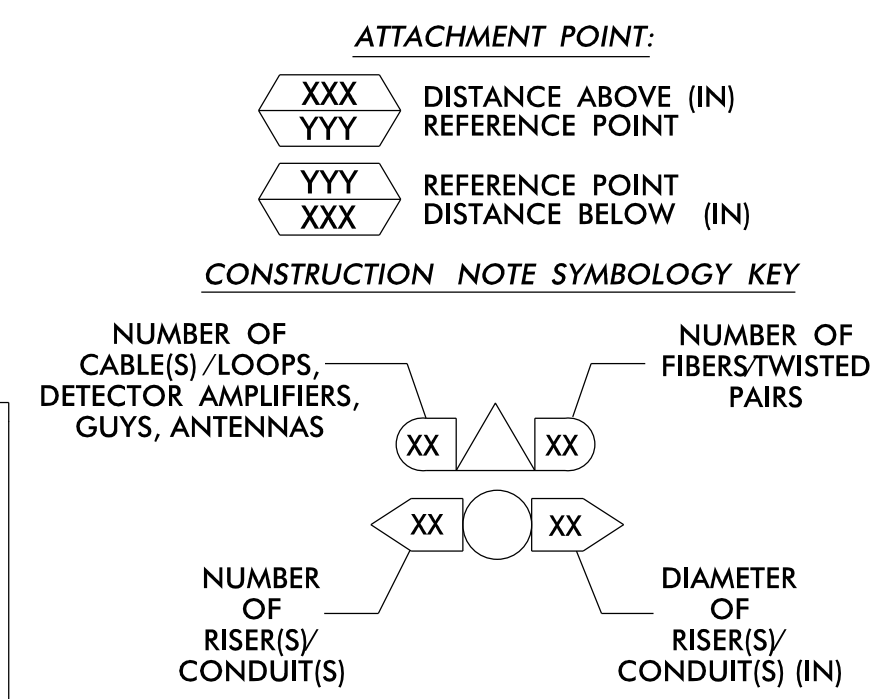
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750 Greenfield Parkway, Garner, NC 27529

SCALE 0 50 1"=50'

REVISIONS INIT. DATE

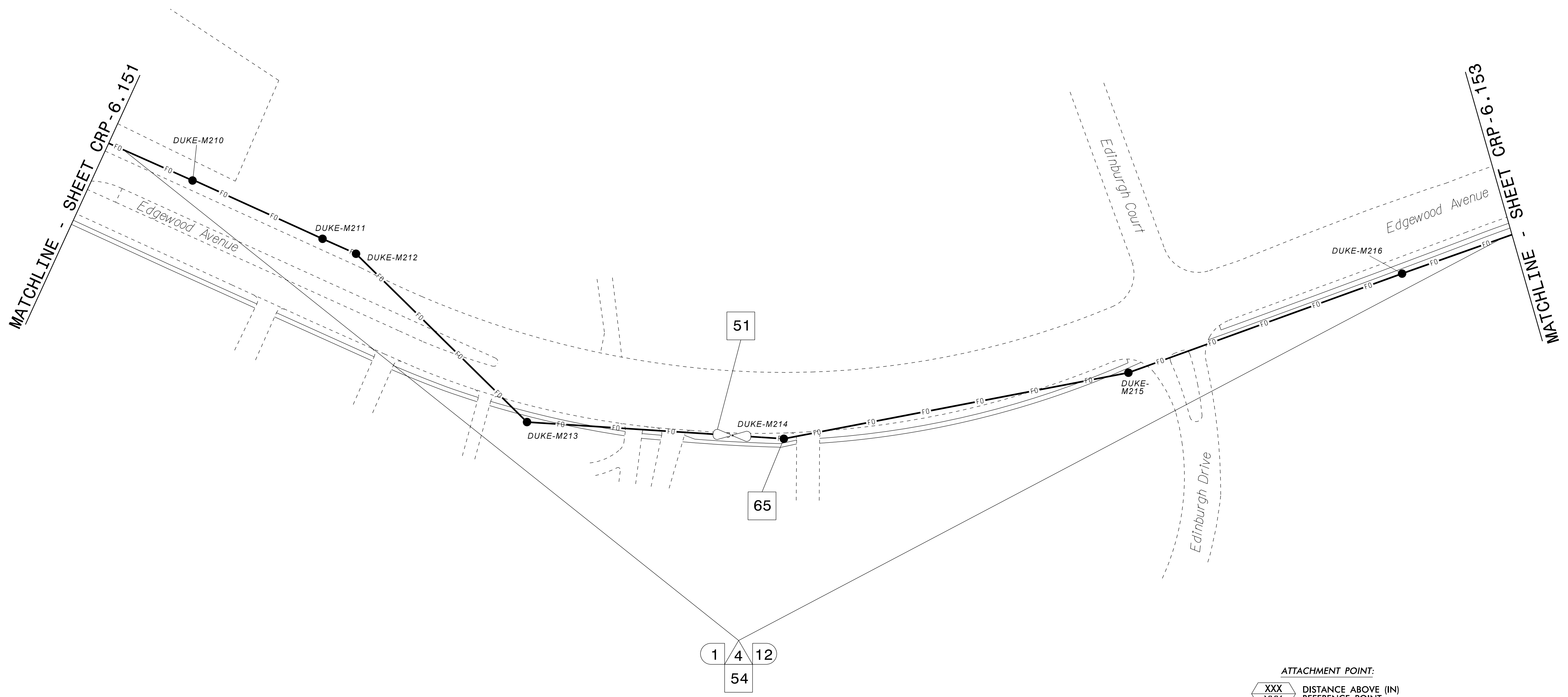
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SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH 025892

DATE

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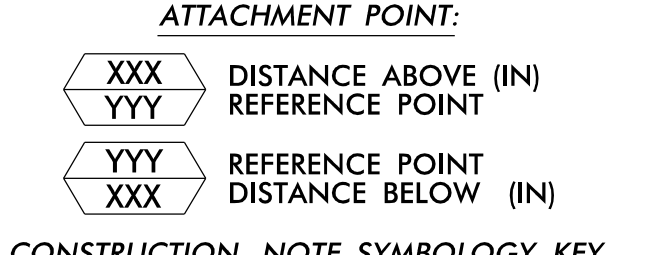
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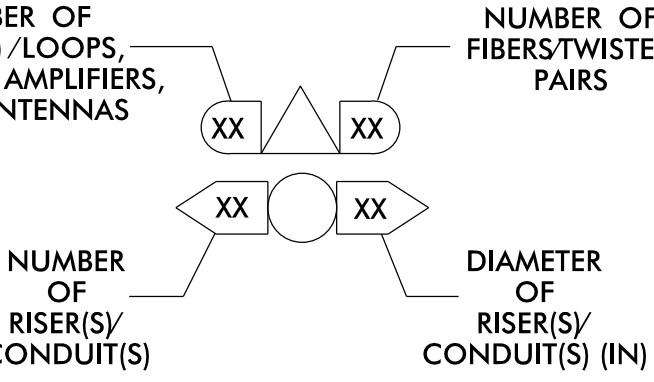
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8. INSTALL CONDUIT UNDERGROUND	18. INSTALL CABLE(S) IN NEW CONDUIT	29. INSTALL UNDERGROUND SPLICE ENCLOSURE	39. INSTALL SPECIAL-SIZED JUNCTION BOX	50. INSTALL SERVICE CONDUCTORS	61. REMOVE EXISTING CCTV CAMERA ASSEMBLY	73. REMOVE EXISTING CCTV METAL 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 SPLICE CABINET	41. REMOVE EXISTING JUNCTION BOX	52. INSTALL DELINEATOR MARKER	63. DRILL/CORE DRILL EXISTING FOUNDATION	75. BACKPULL AND COIL CITY IT CABLE
			42. INSTALL WOOD POLE	53. STORE 30' OF COMMUNICATIONS CABLE (EACH CABLE)	64. INTERCEPT AND REROUTE EXISTING CONDUITS	76. INSTALL 2.4 GHZ RADIO AND PANEL ANTENNA
				54. LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	65. BOND MESSENGER TO POLE GROUND	77. INSTALL BASE MOUNTED CCTV CABINET WITH EXTENDER (336)



CONSTRUCTION NOTE SYMBOLOLOGY KEY



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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
Transportation System Operations

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

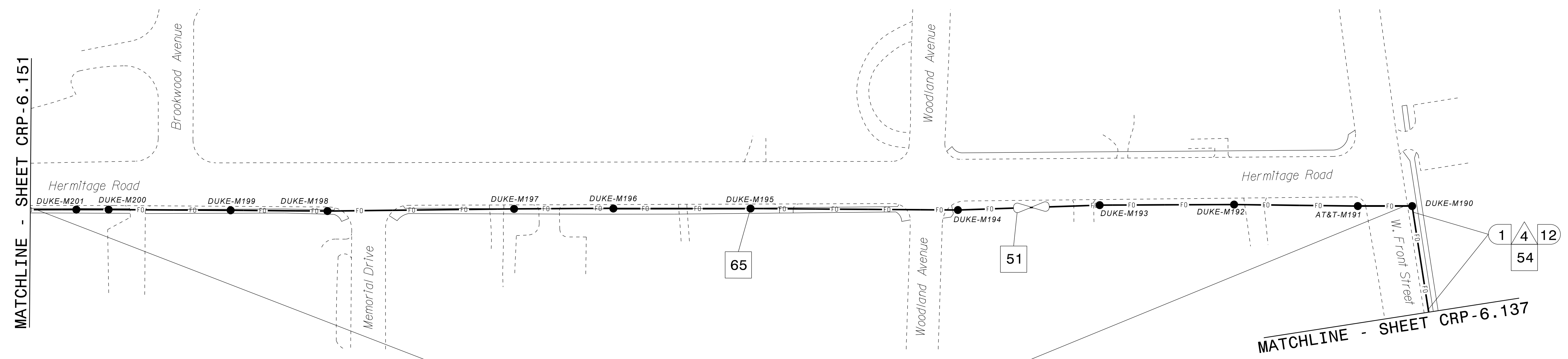
PREPARED BY: ANE/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

REVISIONS INIT. DATE

DocuSign by: *Melissa B. Toth* 11/13/2018
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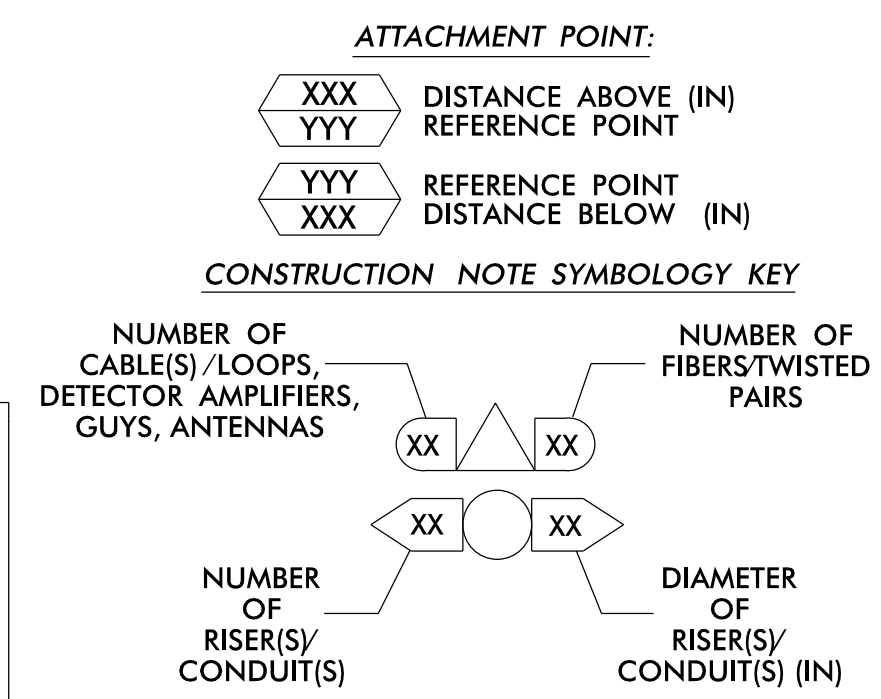


MATCHLINE - SHEET CRP-6.151

MATCHLINE - SHEET CRP-6.137

1 4 12
54

- 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	55 LASH CABLE(S) TO EXISTING MESSENGER CABLE	66 BOND RISER TO POLE GROUND
2 INSTALL LOW VOLTAGE POWER CABLE (24VAC)	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	56 LASH CABLE(S) TO NEW MESSENGER CABLE	67 BOND TRACER WIRE TO EQUIPMENT GROUND BUS
3 INSTALL COMPOSITE CCTV CABLE	13 INSTALL HEAT SHRINK TUBING KIT	24 INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	34 INSTALL CABINET FOUNDATION	45 INSTALL STANDARD GUY ASSEMBLY	57 MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV	68 BOND TRACER WIRE TO POLE GROUND
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	58 INSTALL NEW ELECTRICAL SERVICE FOR CCTV OR RADIO	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	59 INSTALL NEW POLE MOUNTED CCTV CABINET (336)	70 INSTALL CCTV CABINET DISCONNECT
6 INSTALL FIBER-OPTIC DROP CABLE	16 BORE AND JACK CONDUIT	27 INSTALL NEW ETHERNET EDGE SWITCH IN CABINET	37 INSTALL CCTV WOOD POLE	48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	60 INSTALL NEW CCTV CABINET (NEMA TYPE 4)	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	60A INSTALL NEW POLE MOUNTED CABINET FOR ANTENNA (RADIO)	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	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 SPLICE CABINET	41 REMOVE EXISTING JUNCTION BOX	52 INSTALL DELINEATOR MARKER	63 DRILL/CORE DRILL EXISTING FOUNDATION	75 BACKPULL AND COIL CITY IT CABLE
			42 INSTALL WOOD POLE	53 STORE 30' OF COMMUNICATIONS CABLE (EACH CABLE)	64 INTERCEPT AND REROUTE EXISTING CONDUITS	76 INSTALL 2.4 GHZ RADIO AND PANEL ANTENNA
				54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	65 BOND MESSENGER TO POLE GROUND	77 INSTALL BASE MOUNTED CCTV CABINET WITH EXTENDER (336)

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 PREPARED BY: AME/AJH/VJP/NAP/JAW REVIEWED BY: M B Toth

750 Greenfield Parkway, Garner, NC 27529

SCALE 0 50 1"=50'

Melissa B. Toth 11/13/2018

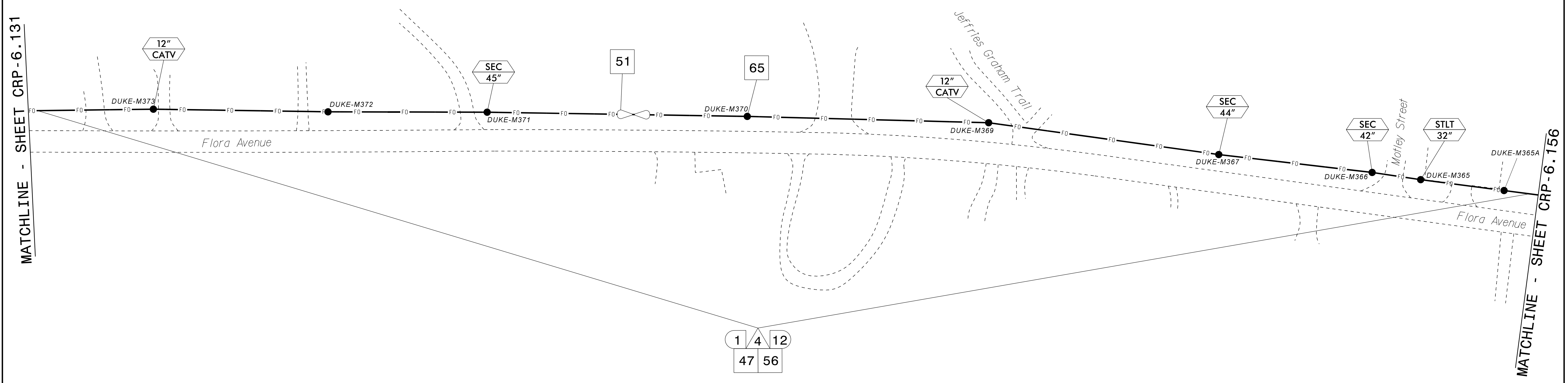
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CADD File name: CL-154.dgn

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ENC4533048 AT LUS333048

MATCHLINE - SHEET CRP-6.131

MATCHLINE - SHEET CRP-6.156



- 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.

ATTACHMENT POINT:

XXX
YYY DISTANCE ABOVE (IN)
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

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

Burlington-Graham Signal System Cable Routing Plans

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: M B Toth

PREPARED BY: ANE/AJH/VJP/NAP/JAW REVIEWED BY: BJ Slocum

750 Greenfield Parkway, Garner, NC 27529

SCALE 0 50 1"=50'

DocuSigned by: **Melissa B. Toth** 025892 ENGINEER 13/2018

CADD File name: CL-155.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	55	LASH CABLE(S) TO EXISTING MESSENGER CABLE	66	BOND RISER TO POLE GROUND
2	INSTALL LOW VOLTAGE POWER CABLE (24VAC)	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	56	LASH CABLE(S) TO NEW MESSENGER CABLE	67	BOND TRACER WIRE TO EQUIPMENT GROUND BUS
3	INSTALL COMPOSITE CCTV CABLE	13	INSTALL HEAT SHRINK TUBING KIT	24	INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	34	INSTALL CABINET FOUNDATION	45	INSTALL STANDARD GUY ASSEMBLY	57	MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV	68	BOND TRACER WIRE TO POLE GROUND
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	58	INSTALL NEW ELECTRICAL SERVICE FOR CCTV OR RADIO	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	59	INSTALL NEW POLE MOUNTED CCTV CABINET (336)	70	INSTALL CCTV CABINET DISCONNECT
6	INSTALL FIBER-OPTIC DROP CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW ETHERNET EDGE SWITCH IN CABINET	37	INSTALL CCTV WOOD POLE	48	REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	60	INSTALL NEW CCTV CABINET (NEMA TYPE 4)	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	60A	INSTALL NEW POLE MOUNTED CABINET FOR ANTENNA (RADIO)	72	INSTALL CCTV METAL POLE
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								54	LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	77	INSTALL BASE MOUNTED CCTV CABINET WITH EXTENDER (336)		

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