


| No. | CCTV ID No. | Location Status | Street 1 | Street 2 | Cable Routing Sheet No. | Camera Assembly | | | Poles | | | | | | | |
|---------------|-------------|-----------------|----------------------|--|-------------------------|--|--|---|----------------------------|---|---|--|-----------------------------------|--|------------------------------------|---|
| | | | | | | Retain Existing Digital CCTV Camera Assembly | Install New Digital CCTV Camera Assembly | Remove Existing Analog CCTV Camera Assembly | Install New CCTV Wood Pole | Replace Existing Wood Pole and Install CCTV | Attach CCTV to Existing Wood Signal Span Pole | Attach CCTV to Existing Metal Strain Signal Pole | Attach CCTV to Existing CCTV Pole | Install / Replace Existing Pole Lightning Protection | Install New Riser With Weatherhead | |
| 1 | CCTV-01 | Existing | Franklin Boulevard | Edgewood Road / Archie Whitesides Road | 1 | 1 | | | | | | | | | | |
| 2 | CCTV-02 | Proposed | Franklin Boulevard | Shannon Bradley Road / Patterson Circle | 5 | | 1 | | | | 1 | | | | 1 | |
| 3 | CCTV-03 | Proposed | Franklin Boulevard | Shannon Bradley Road / Patterson Circle | 5 | | 1 | | | | 1 | | | | 1 | |
| 4 | CCTV-04 | Replace | Franklin Boulevard | Myrtle School Road | 9 | | 1 | 1 | | | | | 1 | 1 | | |
| 5 | CCTV-05 | Existing | Franklin Boulevard | Bessemer City Road / Garrison Boulevard | 12 | 1 | | | | | | | | | | |
| 6 | CCTV-06 | Existing | Franklin Boulevard | Gaston Avenue / Linwood Road | 14 | 1 | | | | | | | | | | |
| 7 | CCTV-07 | Proposed | Franklin Boulevard | Weldon Street | 28 | | 1 | | | 1 | | | | | 1 | |
| 8 | CCTV-08 | Existing | Franklin Boulevard | Chester Street | 30 | 1 | | | | | | | | | | |
| 9 | CCTV-09 | Proposed | Franklin Boulevard | York Street | 30 | | 1 | | | | 1 | | | | | |
| 10 | CCTV-10 | Existing | Franklin Boulevard | Broad Street | 32 | 1 | | | | | | | | | | |
| 11 | CCTV-11 | Proposed | Franklin Boulevard | Church Street | 34 | | 1 | | | | 1 | | | | | |
| 12 | CCTV-12 | Proposed | Franklin Boulevard | Thomas Street / Belvedere Avenue | 36 | | 1 | | | | 1 | | | | | |
| 13 | CCTV-13 | Replace | Franklin Boulevard | New Hope Road | 38 | | 1 | 1 | | | | | 1 | | | |
| 14 | CCTV-14 | Replace | Franklin Boulevard | Cox Road / Armstrong Park Road | 42 | | 1 | 1 | | | | | 1 | 1 | | |
| 15 | CCTV-15 | Existing | Franklin Boulevard | Franklin Square II | 46 | 1 | | | | | | | | | | |
| 16 | CCTV-16 | Replace | Wilkinson Boulevard | Main Street / Redbud Drive | 49 | | 1 | 1 | | | | | 1 | 1 | 1 | |
| 17 | CCTV-17 | Proposed | Wilkinson Boulevard | Groves Street | 51 | | 1 | | | | 1 | | | | | |
| 18 | CCTV-18 | Replace | Main Street (Lowell) | I-85 NB | 53 | | 1 | 1 | | | | | 1 | 1 | | |
| 19 | CCTV-19 | Proposed | Garrison Boulevard | York Street | 59 | | 1 | | | | 1 | | | | | |
| 20 | CCTV-20 | Proposed | Garrison Boulevard | Union Road | 61 | | 1 | | 1 | | | | | | | |
| 21 | CCTV-21 | Proposed | Garrison Boulevard | Burtonwood Drive | 67 | | 1 | | 1 | | | | | 1 | 1 | |
| 22 | CCTV-22 | Replace | New Hope Road | Garrison Boulevard / Armstrong Park Drive | 69 | | 1 | 1 | | | | | 1 | | | |
| 23 | CCTV-23 | Proposed | New Hope Road | Armstrong Park Road | 75 | | 1 | | 1 | | | | | | | |
| 24 | CCTV-24 | Replace | Redbud Drive | New Hope Road | 78 | | 1 | 1 | | | | | 1 | 1 | | |
| 25 | CCTV-25 | Proposed | Davis Park Road | Hudson Boulevard | 83 | | 1 | | | | 1 | | | | | |
| 26 | CCTV-26 | Proposed | Hudson Boulevard | York Road | 92 | | 1 | | | | | 1 | | | | |
| 27 | CCTV-27 | Proposed | Hudson Boulevard | York Road | 92 | | 1 | | | | | 1 | | | | |
| 28 | CCTV-28 | Existing | Hudson Boulevard | Union Road | 93 | 1 | | | | | | | | | | |
| 29 | CCTV-29 | Proposed | Hudson Boulevard | Armstrong Park Road / Gaston Day School Road | 102 | | 1 | | | | 1 | | | | | |
| 30 | CCTV-30 | Proposed | Chester Street | Airline Avenue / Long Avenue | 110 | | 1 | | | | 1 | | | | | |
| 31 | CCTV-31 | Existing | Ozark Avenue | I-85 SB | 118 | 1 | | | | | | | | | | |
| 32 | CCTV-32 | Replace | Chester Street | I-85 SB | 129 | | 1 | 1 | | | | | 1 | | | |
| 33 | CCTV-33 | Existing | Chester Street | Tulip Drive / Bulb Avenue | 130 | 1 | | | | | | | | | | |
| 34 | CCTV-34 | Replace | Union Road | Robinwood Road / Neal Hawkins Road | 149 | | 1 | 1 | | | | | 1 | 1 | 1 | |
| 35 | CCTV-35 | Replace | Cox Road | I-85 NB | 163 | | 1 | 1 | | | | | 1 | 1 | | |
| 36 | CCTV-36 | Existing | New Hope Road | Ozark Avenue | 170 | 1 | | | | | | | | | 1 | |
| 37 | CCTV-37 | Replace | New Hope Road | I-85 SB | 173 | | 1 | 1 | | | | | 1 | 1 | | |
| 38 | CCTV-38 | Existing | Bessemer City Road | Dallas Bessemer City Road / Oates Road | 179 | 1 | | | | | | | | | 1 | |
| 39 | CCTV-39 | Replace | Bessemer City Road | I-85 NB | 183 | | 1 | 1 | | | | | 1 | 1 | | |
| 40 | CCTV-40 | Replace | Edgewood Road | I-85 NB | 192 | | 1 | 1 | | | | | 1 | 1 | | |
| Totals | | | | | | | 11 | 29 | 13 | 3 | 1 | 10 | 2 | 13 | 11 | 8 |

NOTE:
SEE CABLE ROUTING PLANS FOR SPECIFIC DETAILS FOR CAMERA MOUNTING LOCATIONS AND HEIGHTS.

Prepared in the Office of:

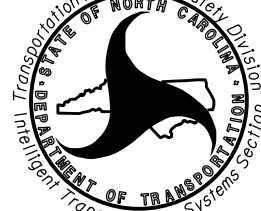


SUMMIT
DESIGN AND ENGINEERING SERVICES

NC FIRM LICENSE No: P-0339
320 Executive Court
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

Sheet 1 of 2

Prepared For:



750 N. Greenfield Place, Garner, NC 27529

SCALE
N/A

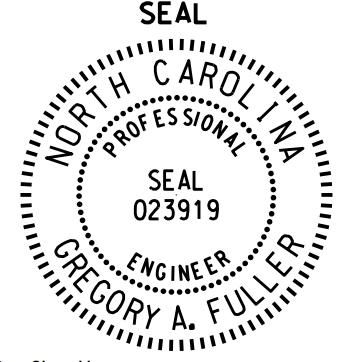
Gastonia Computerized
Signal System
Summary of Work by CCTV

Division 12 Gaston County Gastonia

PLAN DATE: February 2022 REVIEWED BY: S. Yow
PREPARED BY: J. Smith REVIEWED BY: G. Fuller

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
| | | |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SEAL
GREGORY A. FULLER
ENGINEER
023919


DocuSigned by:
Gregory A. Fuller
3/21/2022
DATE

CADD Filename:

| No. | CCTV ID No. | Location Status | Street 1 | Street 2 | Cable Routing Sheet No. | Cabinets | | | | | Communications | | | | | |
|---------------|-------------|-----------------|----------------------|--|-------------------------|---|---------------------------------------|---|------------------------------------|---|--------------------------------|-----------------------------------|--|---|-----|------|
| | | | | | | Remove Existing Pole Mounted CCTV Cabinet | Install New Pole Mounted CCTV Cabinet | Re-Use Existing Pole Mounted CCTV Cabinet | Remove Existing Electrical Service | Install New Fiber-Optic Interconnect Center | Replace Fiber-Optic Drop Cable | Install New Field Ethernet Switch | Terminate PoE Cable in Traffic Signal Cabinet and Connect to Field Ethernet Switch | Install PoE Cable from CCTV to Field Ethernet Switch (LF) | | |
| 1 | CCTV-01 | Existing | Franklin Boulevard | Edgewood Road / Archie Whitesides Road | 1 | | | | | | | | | 1 | | |
| 2 | CCTV-02 | Proposed | Franklin Boulevard | Shannon Bradley Road / Patterson Circle | 5 | | | | | | | | | 1 | 155 | |
| 3 | CCTV-03 | Proposed | Franklin Boulevard | Shannon Bradley Road / Patterson Circle | 5 | | | | | | | | | 1 | 295 | |
| 4 | CCTV-04 | Replace | Franklin Boulevard | Myrtle School Road | 9 | 1 | | | 1 | | | | | 1 | 75 | |
| 5 | CCTV-05 | Existing | Franklin Boulevard | Bessemer City Road / Garrison Boulevard | 12 | | | | | | | | | 1 | | |
| 6 | CCTV-06 | Existing | Franklin Boulevard | Gaston Avenue / Linwood Road | 14 | | | | | | | | | 1 | | |
| 7 | CCTV-07 | Proposed | Franklin Boulevard | Weldon Street | 28 | | | | | | | | | 1 | 60 | |
| 8 | CCTV-08 | Existing | Franklin Boulevard | Chester Street | 30 | | | | | | | | | 1 | | |
| 9 | CCTV-09 | Proposed | Franklin Boulevard | York Street | 30 | | | | | | | | | 1 | 100 | |
| 10 | CCTV-10 | Existing | Franklin Boulevard | Broad Street | 32 | | | | | | | | | 1 | | |
| 11 | CCTV-11 | Proposed | Franklin Boulevard | Church Street | 34 | | | | | | | | | 1 | 185 | |
| 12 | CCTV-12 | Proposed | Franklin Boulevard | Thomas Street / Belvedere Avenue | 36 | | | | | | | | | 1 | 145 | |
| 13 | CCTV-13 | Replace | Franklin Boulevard | New Hope Road | 38 | 1 | | | 1 | | | | | 1 | 175 | |
| 14 | CCTV-14 | Replace | Franklin Boulevard | Cox Road / Armstrong Park Road | 42 | | | 1 | | 1 | 1 | 1 | | | 50 | |
| 15 | CCTV-15 | Existing | Franklin Boulevard | Franklin Square II | 46 | 1 | | | 1 | | | | | 1 | 185 | |
| 16 | CCTV-16 | Replace | Wilkinson Boulevard | Main Street / Redbud Drive | 49 | 1 | | | 1 | | | | | 1 | 90 | |
| 17 | CCTV-17 | Proposed | Wilkinson Boulevard | Groves Street | 51 | | | | | | | | | 1 | 175 | |
| 18 | CCTV-18 | Replace | Main Street (Lowell) | I-85 NB | 53 | 1 | 1 | | | 1 | 1 | 1 | | | 50 | |
| 19 | CCTV-19 | Proposed | Garrison Boulevard | York Street | 59 | | | | | | | | | 1 | 220 | |
| 20 | CCTV-20 | Proposed | Garrison Boulevard | Union Road | 61 | | | | | | | | | 1 | 160 | |
| 21 | CCTV-21 | Proposed | Garrison Boulevard | Burtonwood Drive | 67 | | | | | | | | | 1 | 75 | |
| 22 | CCTV-22 | Replace | New Hope Road | Garrison Boulevard / Armstrong Park Drive | 69 | 1 | | | 1 | | | | | 1 | 90 | |
| 23 | CCTV-23 | Proposed | New Hope Road | Armstrong Park Road | 75 | | | | | | | | | 1 | 90 | |
| 24 | CCTV-24 | Replace | Redbud Drive | New Hope Road | 78 | | | 1 | | 1 | 1 | 1 | | | 50 | |
| 25 | CCTV-25 | Proposed | Davis Park Road | Hudson Boulevard | 83 | | | | | | | | | 1 | 215 | |
| 26 | CCTV-26 | Proposed | Hudson Boulevard | York Road | 92 | | | | | | | | | 1 | 90 | |
| 27 | CCTV-27 | Proposed | Hudson Boulevard | York Road | 92 | | | | | | | | | 1 | 310 | |
| 28 | CCTV-28 | Existing | Hudson Boulevard | Union Road | 93 | 1 | | | 1 | | | | | 1 | 160 | |
| 29 | CCTV-29 | Proposed | Hudson Boulevard | Armstrong Park Road / Gaston Day School Road | 102 | | | | | | | | | 1 | 300 | |
| 30 | CCTV-30 | Proposed | Chester Street | Airline Avenue / Long Avenue | 110 | | | | | | | | | 1 | 230 | |
| 31 | CCTV-31 | Existing | Ozark Avenue | I-85 SB | 118 | | | 1 | | 1 | 1 | 1 | | | | |
| 32 | CCTV-32 | Replace | Chester Street | I-85 SB | 129 | | | 1 | | 1 | 1 | 1 | | | 50 | |
| 33 | CCTV-33 | Existing | Chester Street | Tulip Drive / Bulb Avenue | 130 | | | 1 | | 1 | 1 | 1 | | | | |
| 34 | CCTV-34 | Replace | Union Road | Robinwood Road / Neal Hawkins Road | 149 | 1 | | | 1 | | | | | 1 | 100 | |
| 35 | CCTV-35 | Replace | Cox Road | I-85 NB | 163 | | | 1 | | 1 | 1 | 1 | | | 50 | |
| 36 | CCTV-36 | Existing | New Hope Road | Ozark Avenue | 170 | 1 | | | 1 | | | | | 1 | 90 | |
| 37 | CCTV-37 | Replace | New Hope Road | I-85 SB | 173 | | | 1 | | 1 | 1 | 1 | | | 50 | |
| 38 | CCTV-38 | Existing | Bessemer City Road | Dallas Bessemer City Road / Oates Road | 179 | 1 | | | 1 | | | | | 1 | 210 | |
| 39 | CCTV-39 | Replace | Bessemer City Road | I-85 NB | 183 | | | 1 | | 1 | 1 | 1 | | | 50 | |
| 40 | CCTV-40 | Replace | Edgewood Road | I-85 NB | 192 | | | 1 | | 1 | 1 | 1 | | | 50 | |
| Totals | | | | | | | | 10 | 1 | 9 | 9 | 10 | 10 | 10 | 30 | 4380 |

NOTE:
SEE CABLE ROUTING PLANS FOR SPECIFIC DETAILS FOR CAMERA MOUNTING LOCATIONS AND HEIGHTS.


Prepared in the Office of:



NC FIRM LICENSE No: P-0339
320 Executive Court
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

Sheet 2 of 2

Prepared For:



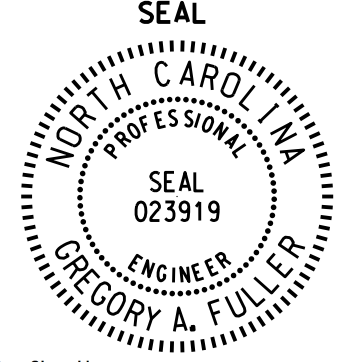
Gastonia Computerized
Signal System
Summary of Work by CCTV

Division 12 Gaston County Gastonia
PLAN DATE: February 2022 REVIEWED BY: S. Yow
PREPARED BY: J. Smith REVIEWED BY: G. Fuller

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
| | | |
| | | |

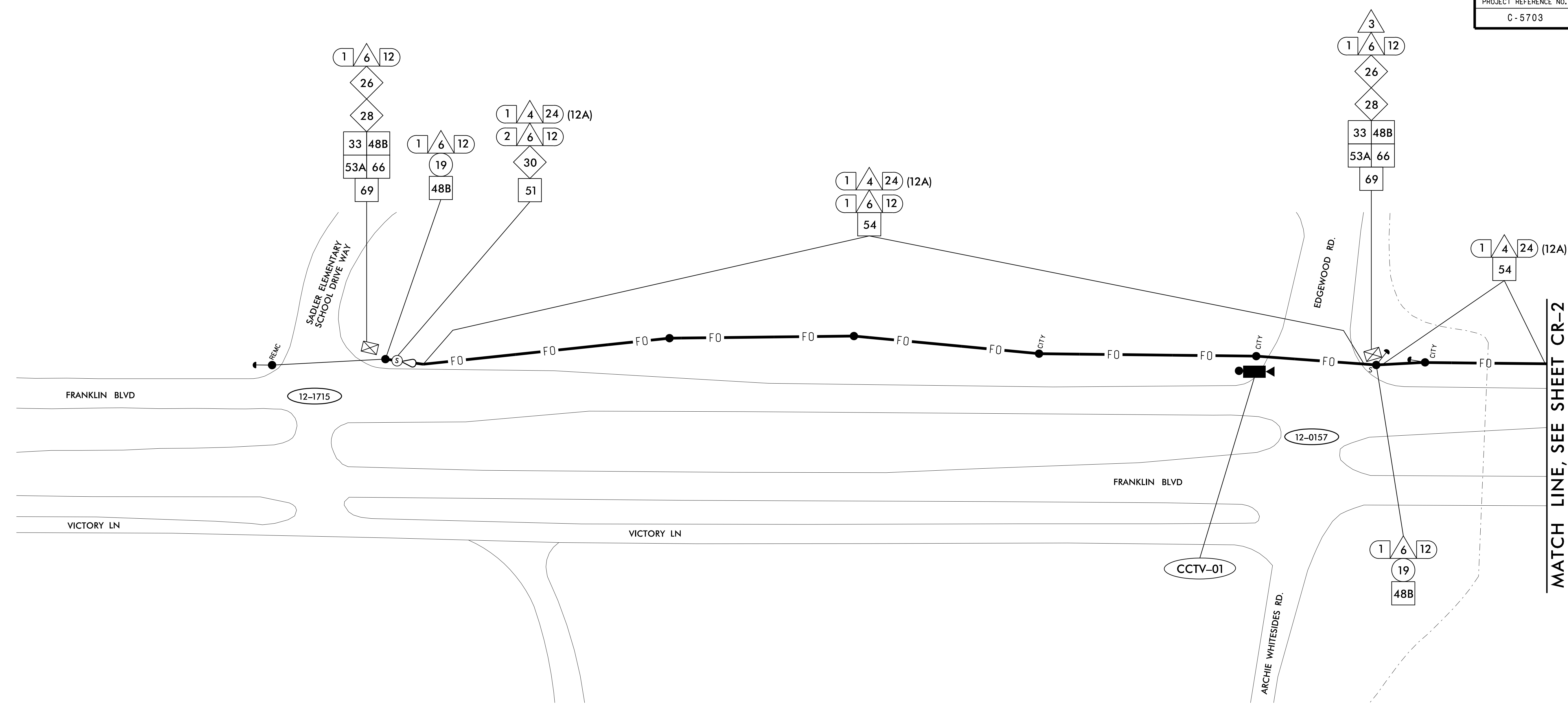
SCALE: N/A

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DocuSigned by:
Gregory A. Fuller
3/21/2022
DATE

CADD Filename:



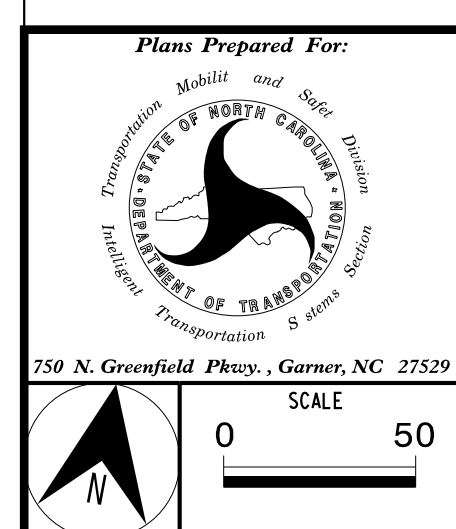
MATCH LINE, SEE SHEET CR-2

3/17/2022 K:\ARL\TPTD_LITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SHOTOOL_CR.dgn

| | | | | | | | | | | | | | |
|----|--|----|--|----|--|-----|--|-----|--|---------------------------|--|----------------------------------|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET | 45 | INSTALL STANDARD GUY ASSEMBLY | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3 | EXISTING ETHERNET (OR COAX) CABLE | 14 | INSTALL POLYETHYLENE CONDUIT | 25 | INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36 | INSTALL CCTV CAMERA ASSEMBLY | 46 | INSTALL SIDEWALK GUY ASSEMBLY | 54 | LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66 | INSTALL MOLDBLE DUCT SEAL |
| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL NEW ETHERNET EDGE SWITCH | 37 | INSTALL CCTV CAMERA WOOD POLE | 47 | INSTALL MESSENGER CABLE | 55 | LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67 | SLACK SPAN |
| 5 | EXISTING SMFO CABLE | 16 | BORE AND JACK CONDUIT | 27 | INSTALL NEW FIBER OPTIC TRANSCEIVER | 38 | INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A | REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56 | LASH CABLE(S) TO NEW MESSENGER CABLE | 68 | INSTALL CABINET BASE ADAPTER |
| 6 | INSTALL FIBER OPTIC DROP CABLE | 17 | INSTALL CABLE(S) IN EXISTING CONDUIT | 28 | INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET | 39 | INSTALL JUNCTION BOX | 48B | REMOVE EXISTING COMMUNICATIONS CABLE | 57 | MODIFY EXISTING ELECTRICAL SERVICE | 69 | REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 7 | INSTALL TRACER WIRE | 18 | INSTALL CABLE(S) IN NEW CONDUIT | 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A | INSTALL OVERSIZED JUNCTION BOX | 49 | BACK PULL EXISTING COMMUNICATIONS CABLE | 58 | INSTALL NEW ELECTRICAL SERVICE | 70 | REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 8 | TRENCH | 19 | INSTALL CABLE(S) IN EXISTING RISER | 30 | INSTALL AERIAL SPLICE ENCLOSURE | 40B | INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") | 50 | INSTALL CELL MODEM AND ANTENNA | 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71 | REMOVE EXISTING CCTV CAMERA CABINET |
| 9 | INSTALL PVC CONDUIT | 20 | INSTALL CABLE(S) IN NEW RISER | 31 | MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE | 41 | REMOVE EXISTING JUNCTION BOX | 51 | INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE | 60 | BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 72 | REMOVE CABINET FOUNDATION |
| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21 | INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32 | INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42 | INSTALL WOOD POLE | 52A | INSTALL DELINEATOR MARKER | 61 | DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73 | MODIFY EXISTING CABINET FOUNDATION |
| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | |

NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.

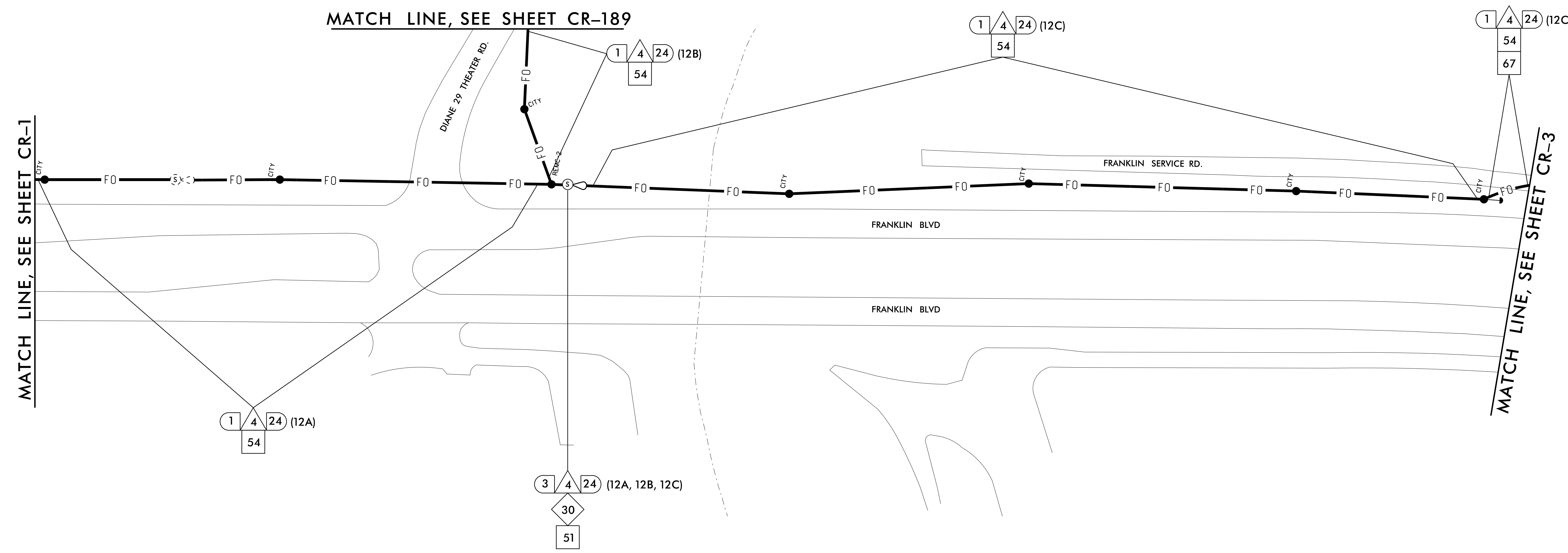


| | |
|--|----------------------------|
| Plans Prepared For: | |
| CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN | |
| DIVISION 12 GASTON COUNTY | |
| PLAN DATE: DECEMBER 2021 | REVIEWED BY: K. SMITH |
| PREPARED BY: S. BUTLER | REVIEWED BY: I. VAN OSDELL |
| REVISIONS | INIT. DATE |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

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 NC License #F-0102
 421 Fayetteville St., Suite 600
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SEAL

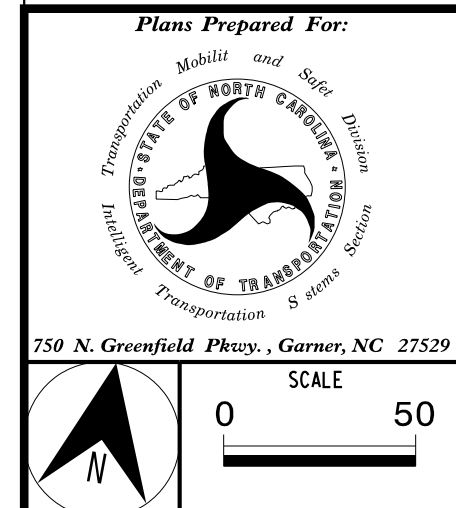
 Iger Van Osdel
 3/18/2022
 DATE
 CADD File name:



3/17/2022 KARAL.TPTD.LITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SH002_CR.dgn

Legend table with 75 numbered items describing installation tasks such as 'INSTALL COAX CABLE', 'INSTALL ETHERNET CABLE', 'INSTALL CABLE FOUNDATION', etc.

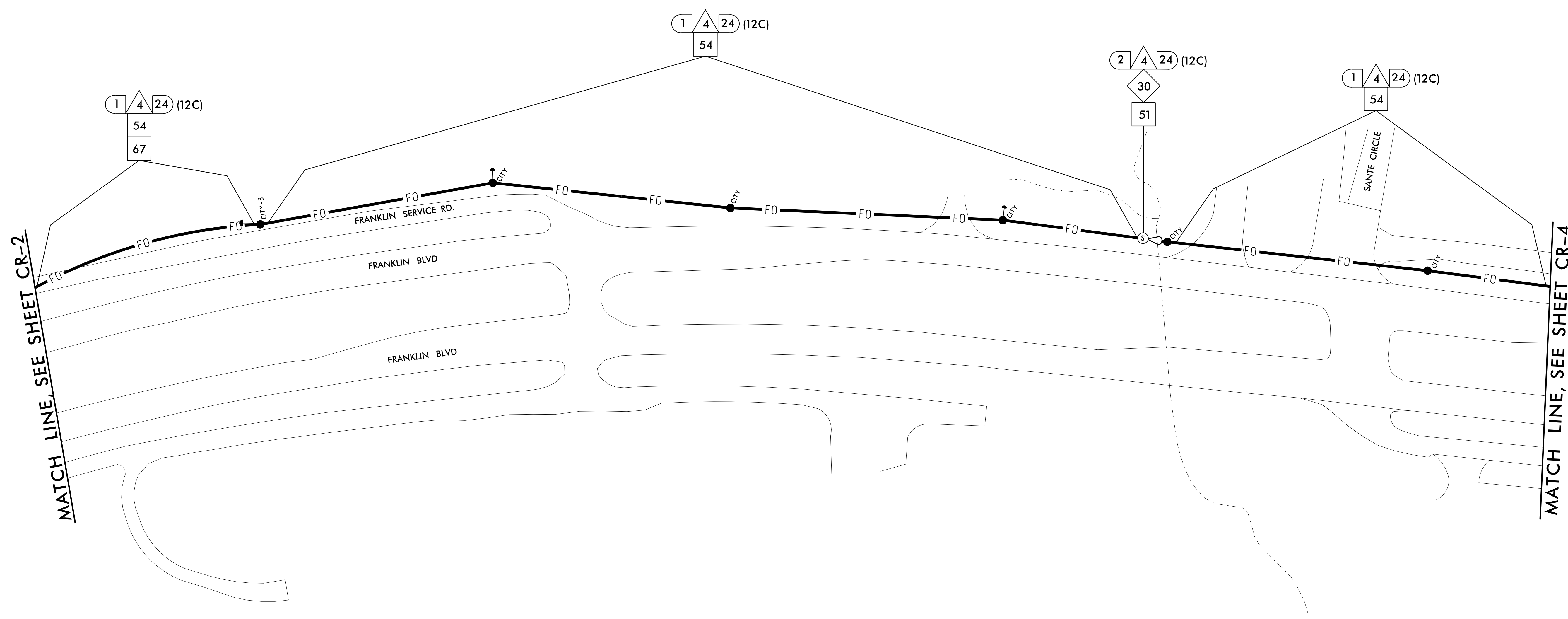
NOTES: 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED. 2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.



Project information table including Plan Date (DECEMBER 2021), Prepared By (S. BUTLER), Reviewed By (K. SMITH, I. VAN OSDELL), and a Revisions table.

KimleyHorn logo and contact information: NC License #F-0102, 421 Fayetteville St., Suite 600, Raleigh, NC 27601.

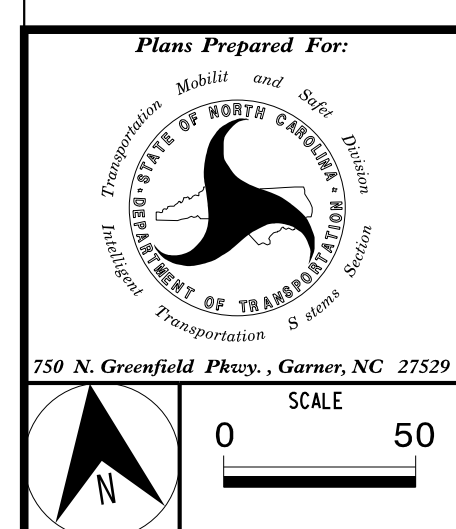
Professional Engineer seal for the State of North Carolina, No. 28952, for I. Van Osdel, dated 3/18/2022.



3/17/2022 KARAL.TPTD.LTS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SH003.CR.dgn

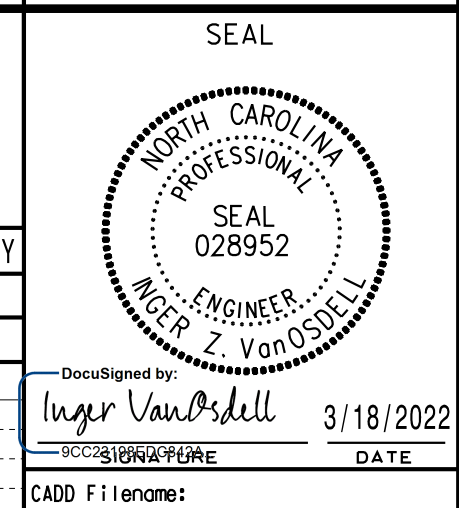
| | | | | | | | | | | | | | |
|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET | 45 | INSTALL STANDARD GUY ASSEMBLY | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3 | EXISTING ETHERNET (OR COAX) CABLE | 14 | INSTALL POLYETHYLENE CONDUIT | 25 | INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36 | INSTALL CCTV CAMERA ASSEMBLY | 46 | INSTALL SIDEWALK GUY ASSEMBLY | 54 | LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66 | INSTALL MOLDABLE DUCT SEAL |
| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL NEW ETHERNET EDGE SWITCH | 37 | INSTALL CCTV CAMERA WOOD POLE | 47 | INSTALL MESSENGER CABLE | 55 | LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67 | SLACK SPAN |
| 5 | EXISTING SMFO CABLE | 16 | BORE AND JACK CONDUIT | 27 | INSTALL NEW FIBER OPTIC TRANSCEIVER | 38 | INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A | REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56 | LASH CABLE(S) TO NEW MESSENGER CABLE | 68 | INSTALL CABINET BASE ADAPTER |
| 6 | INSTALL FIBER OPTIC DROP CABLE | 17 | INSTALL CABLE(S) IN EXISTING CONDUIT | 28 | INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET | 39 | INSTALL JUNCTION BOX | 48B | REMOVE EXISTING COMMUNICATIONS CABLE | 57 | MODIFY EXISTING ELECTRICAL SERVICE | 69 | REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 7 | INSTALL TRACER WIRE | 18 | INSTALL CABLE(S) IN NEW CONDUIT | 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A | INSTALL OVERSIZED JUNCTION BOX | 49 | BACK PULL EXISTING COMMUNICATIONS CABLE | 58 | INSTALL NEW ELECTRICAL SERVICE | 70 | REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 8 | TRENCH | 19 | INSTALL CABLE(S) IN EXISTING RISER | 30 | INSTALL AERIAL SPLICE ENCLOSURE | 40B | INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") | 50 | INSTALL CELL MODEM AND ANTENNA | 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71 | REMOVE EXISTING CCTV CAMERA CABINET |
| 9 | INSTALL PVC CONDUIT | 20 | INSTALL CABLE(S) IN NEW RISER | 31 | MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE | 41 | REMOVE EXISTING JUNCTION BOX | 51 | INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE | 60 | BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 72 | REMOVE CABINET FOUNDATION |
| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21 | INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32 | INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42 | INSTALL WOOD POLE | 52A | INSTALL DELINEATOR MARKER | 61 | DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73 | MODIFY EXISTING CABINET FOUNDATION |
| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | | |

NOTES:
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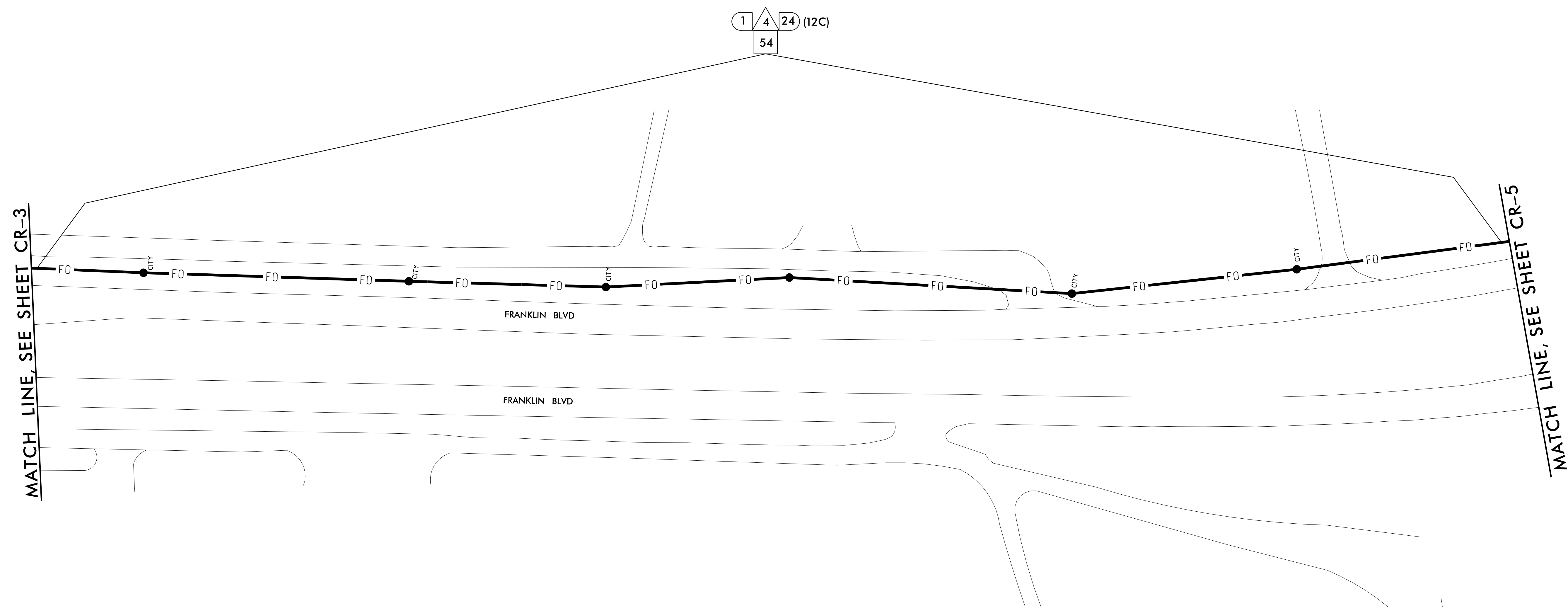


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|---|----------------------------|
| CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN | |
| DIVISION 12 | GASTON COUNTY |
| PLAN DATE: DECEMBER 2021 | REVIEWED BY: K. SMITH |
| PREPARED BY: S. BUTLER | REVIEWED BY: I. VAN OSDELL |
| REVISIONS | INIT. DATE |
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| | |

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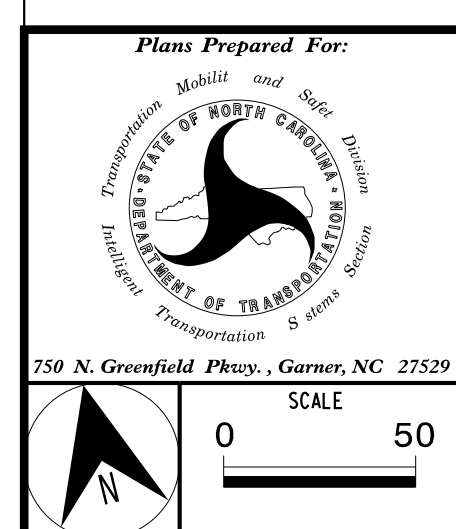
DocuSign by: I. Van Osdel
 DATE: 3/18/2022
 CADD File name:



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|----|--|----|--|----|--|-----|--|-----|--|---------------------------|--|----------------------------------|---|
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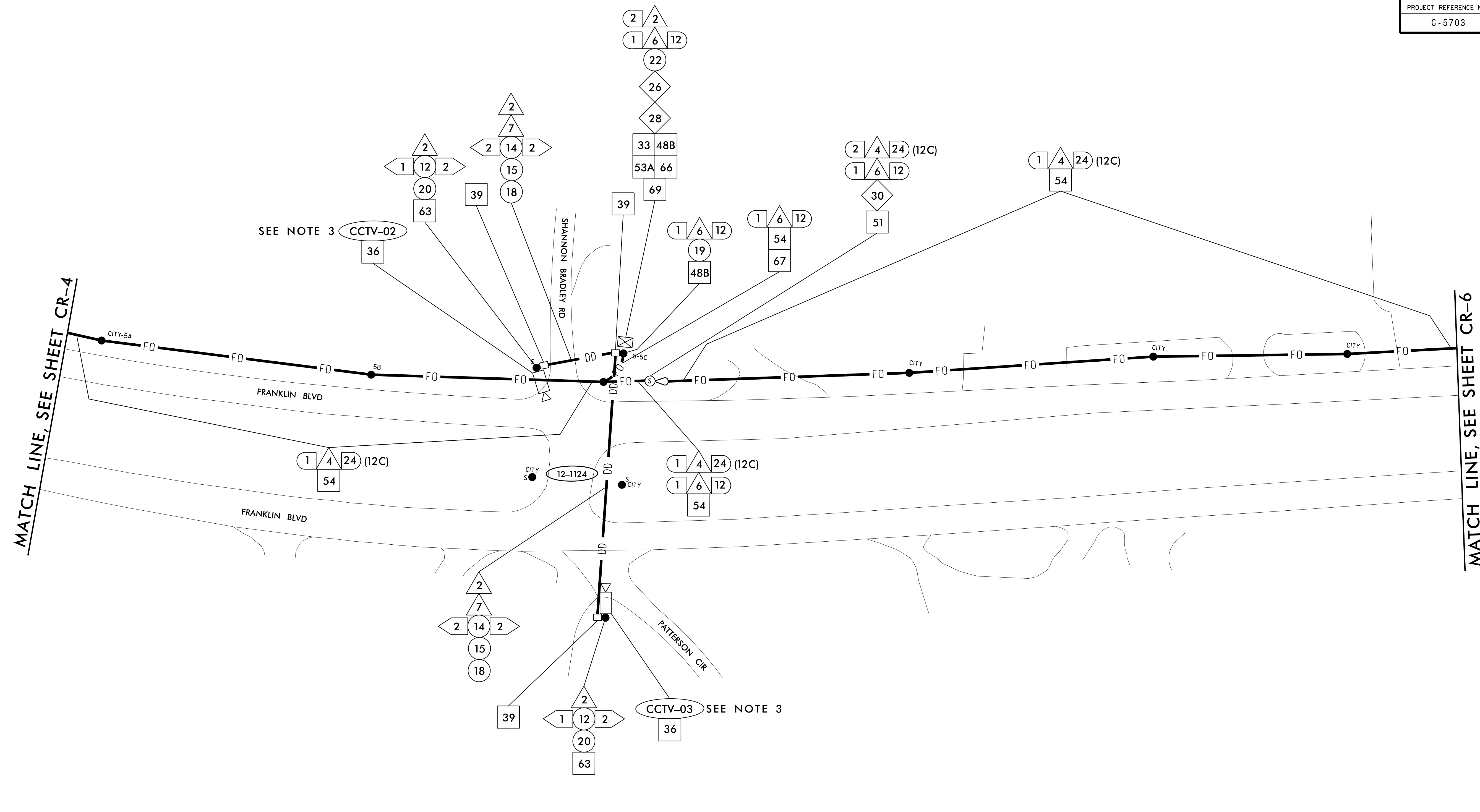
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| DIVISION 12 | GASTON COUNTY |
| PLAN DATE: DECEMBER 2021 | REVIEWED BY: K. SMITH |
| PREPARED BY: S. BUTLER | REVIEWED BY: I. VAN OSDELL |
| REVISIONS | INIT. DATE |
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| | |

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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 IGER Z. VAN OSDELL
 028952
 Iger Van Osdel
 3/18/2022
 DATE
 CADD Filename:



3/17/2022 KARAL.TPTD.LTS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SH005_CR.dgn

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- INSTALL CCTV CAMERA 02 AND 03 12" BELOW TOP OF POLE. SEE ITS-13.

Plans Prepared For:

250 N. Greenfield Place, Garner, NC 27529

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

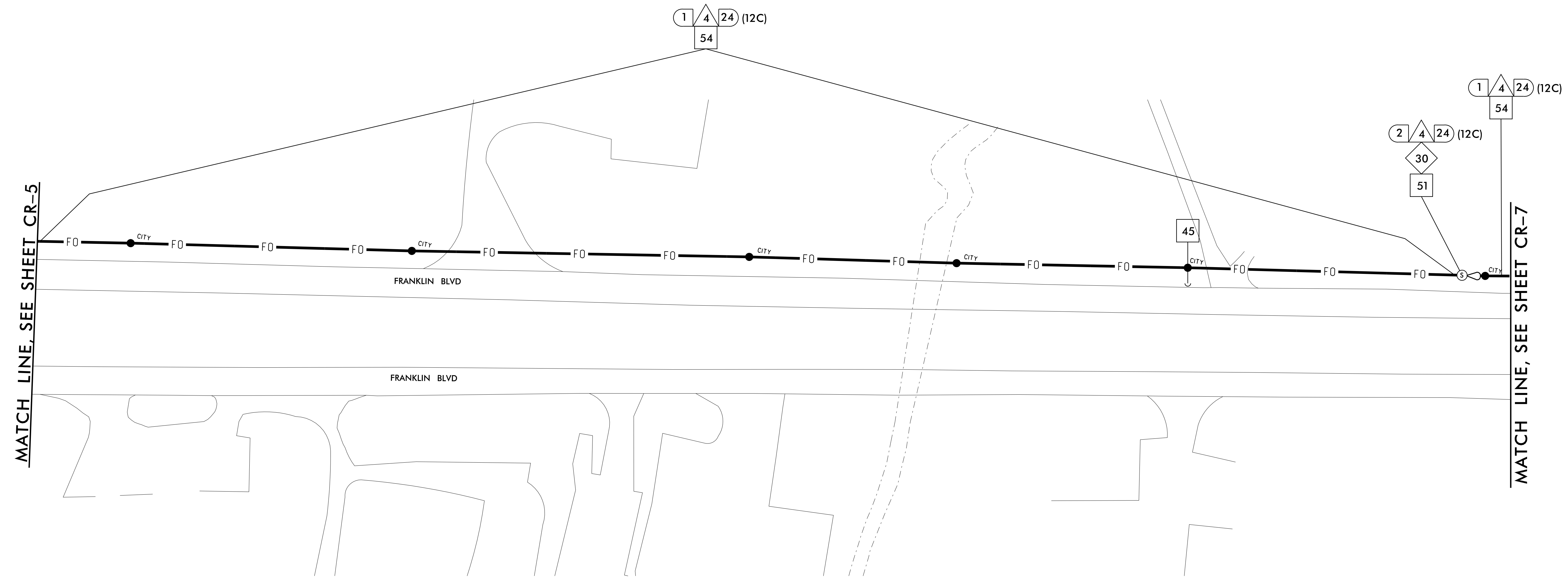
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| PLAN DATE: DECEMBER 2021 | REVIEWED BY: K. SMITH |
| PREPARED BY: S. BUTLER | REVIEWED BY: I. VAN OSDELL |

REVISIONS: INIT. DATE

SEAL

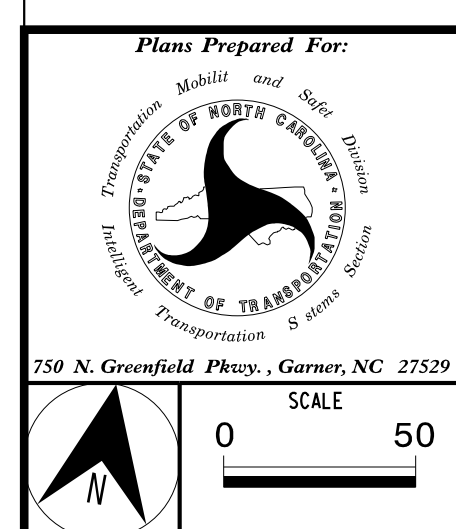
3/18/2022

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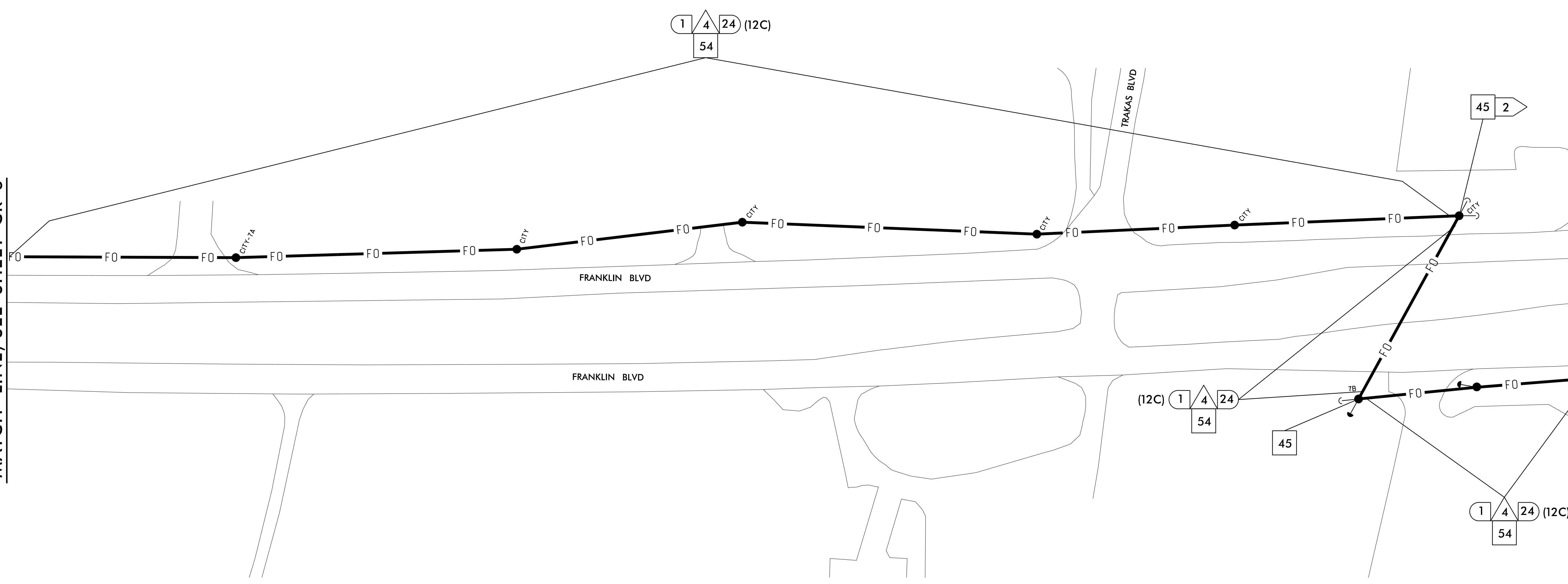
Kimley-Horn
 NC License #F-0102
 421 Fayetteville St., Suite 600
 Raleigh, NC 27601
 Tel: (919) 677-2000
 Fax: (919) 677-2050

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 I. VAN OSDELL
 3/18/2022
 DATE

3/17/2022 K:\ARL\TPTD\ITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SH006_CR.dgn

MATCH LINE, SEE SHEET CR-6

MATCH LINE, SEE SHEET CR-8

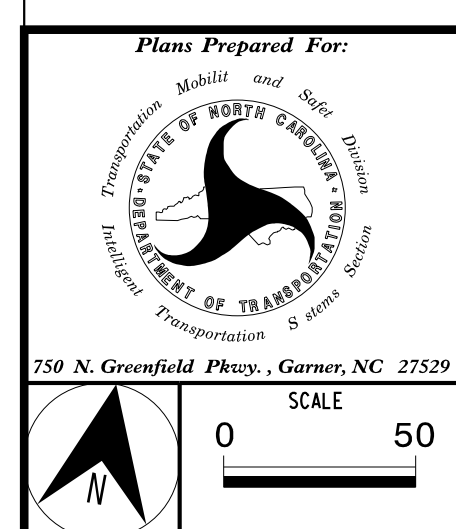


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Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
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SCALE: 0 50

DocuSigned by: Iger Van Osdel 3/18/2022

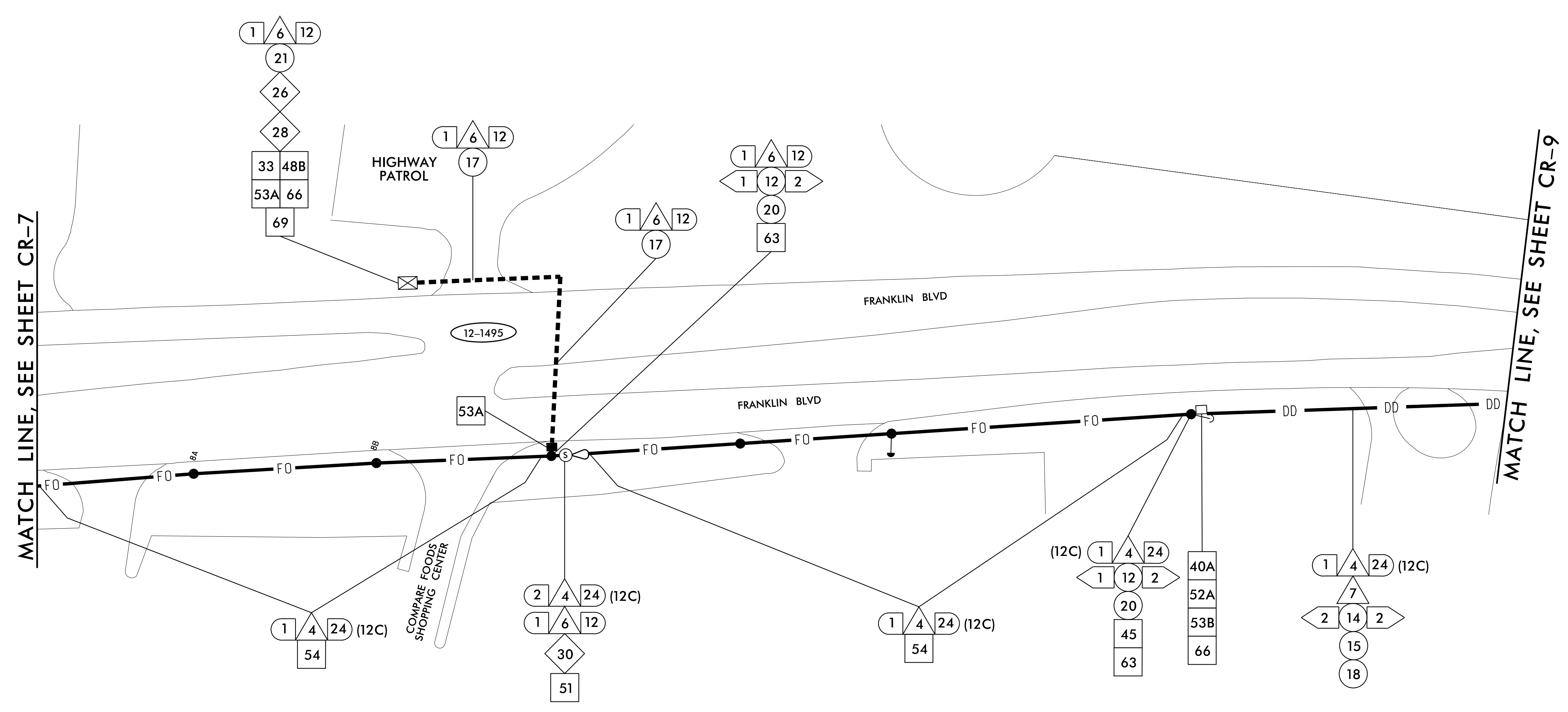
CADD File name: _____

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Fax: (919) 677-2050

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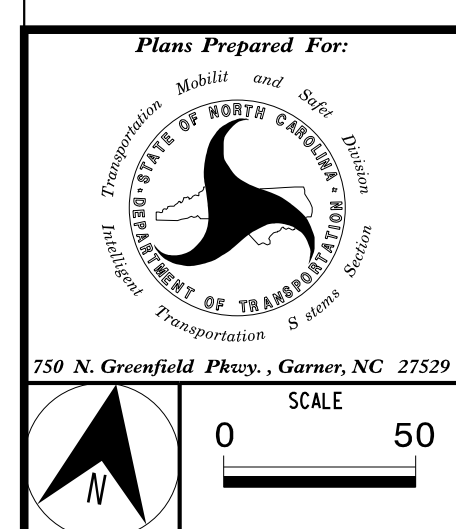
NORTH CAROLINA PROFESSIONAL ENGINEER
Iger Van Osdel
028952



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DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

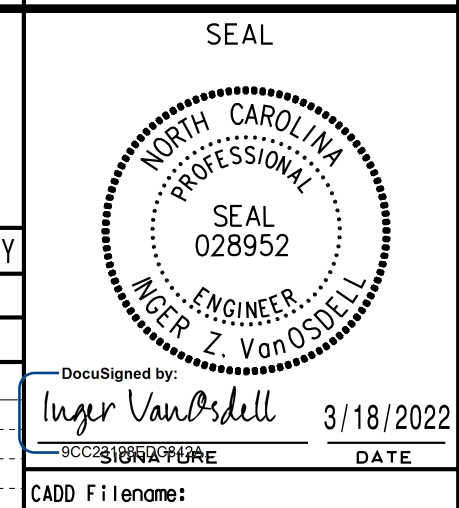
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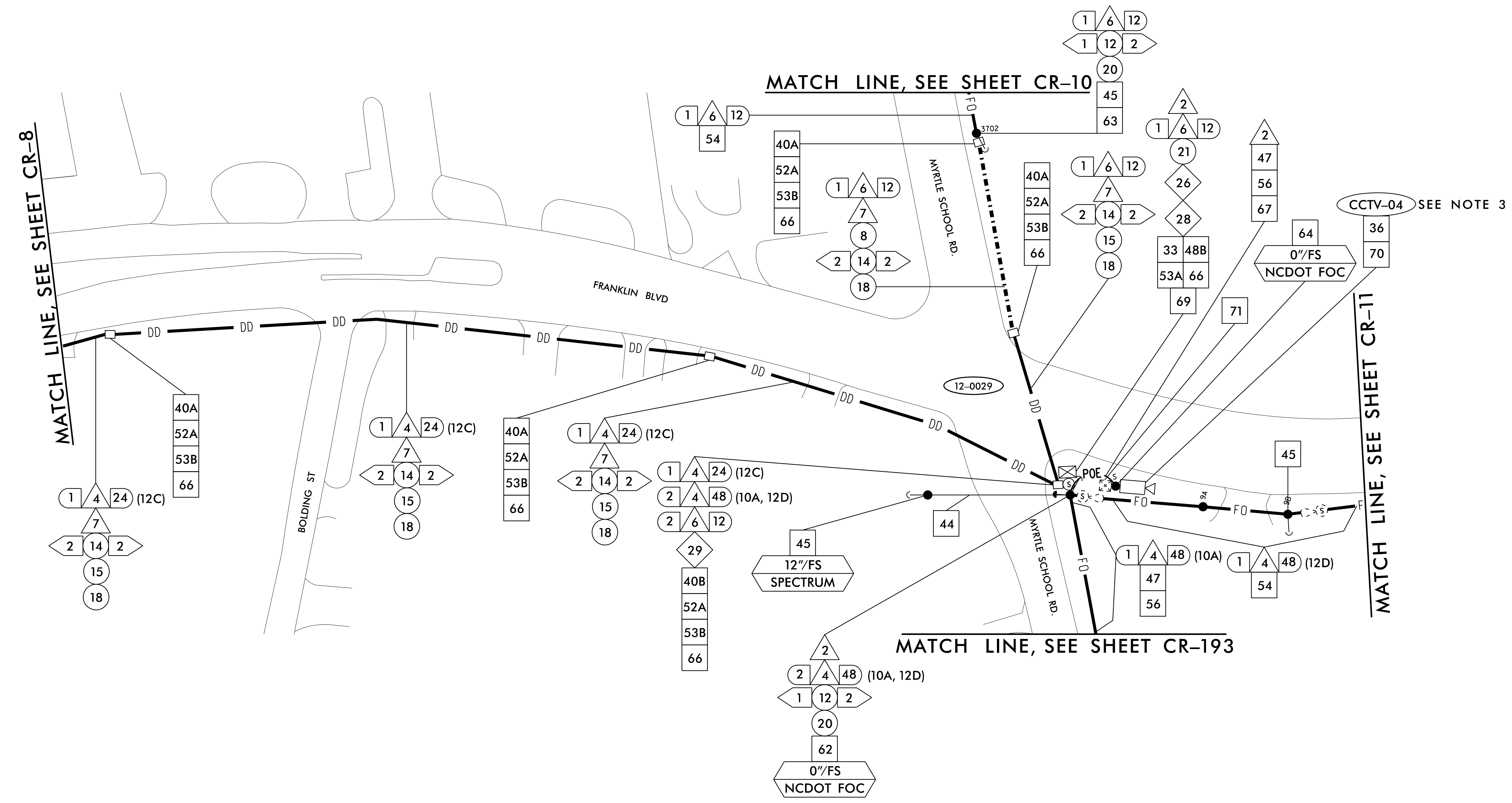
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DocuSign by: Roger Van Osdel 3/18/2022

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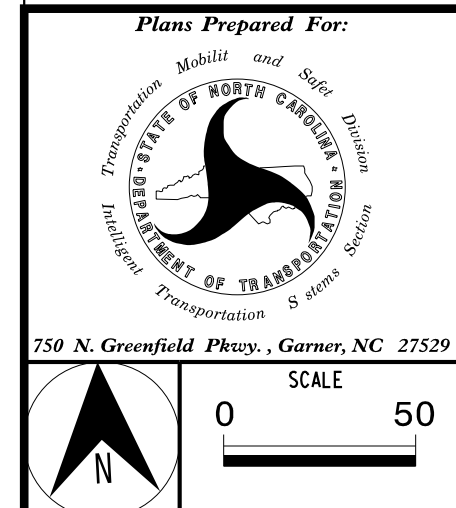




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DIVISION 12 GASTON COUNTY

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PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

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Scale: 0 to 50 feet

Kimley»Horn

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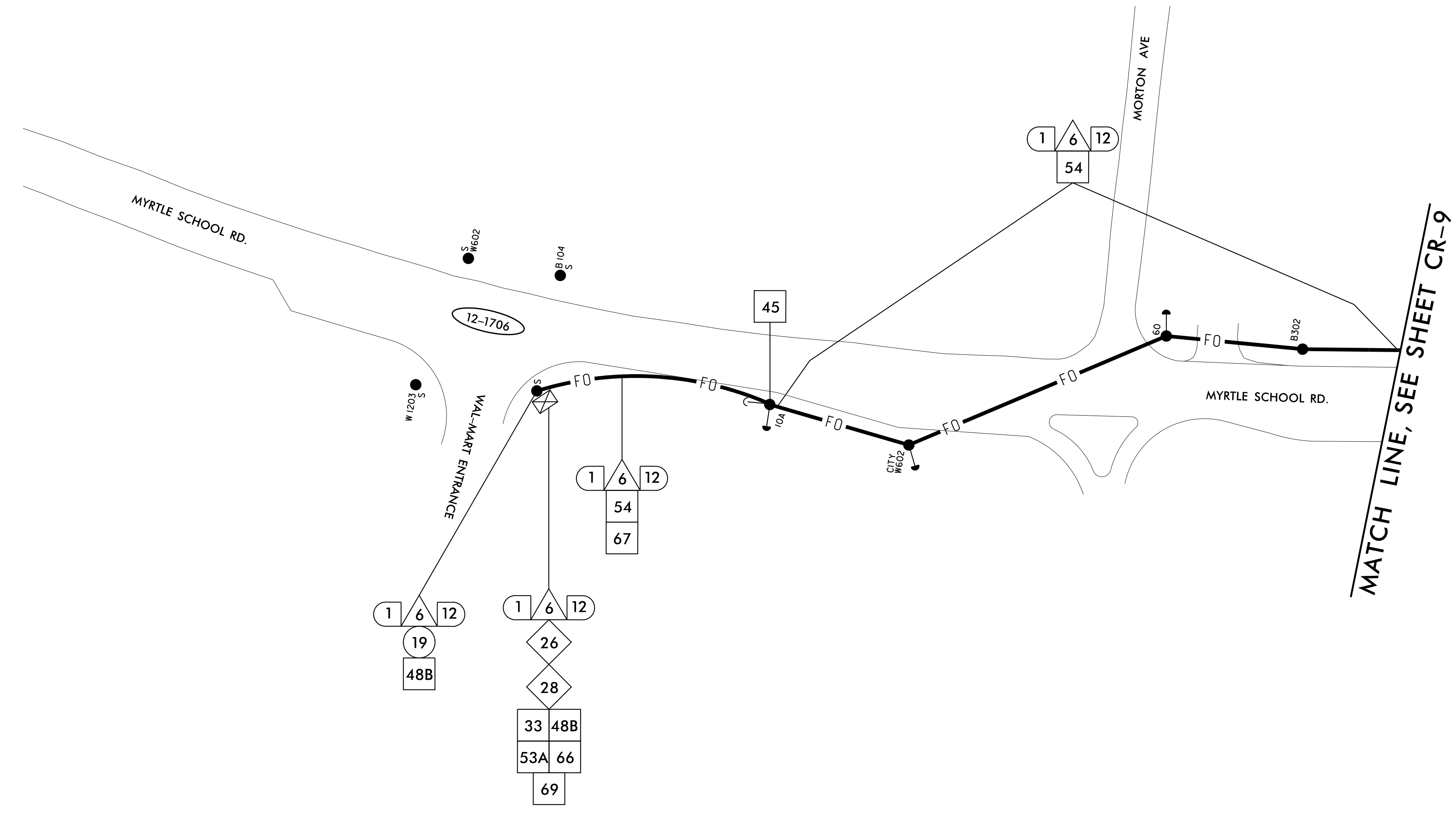
SEAL

North Carolina Professional Engineer
No. 028952
I. Van Osdel

DocuSigned by:
I. Van Osdel
3/18/2022

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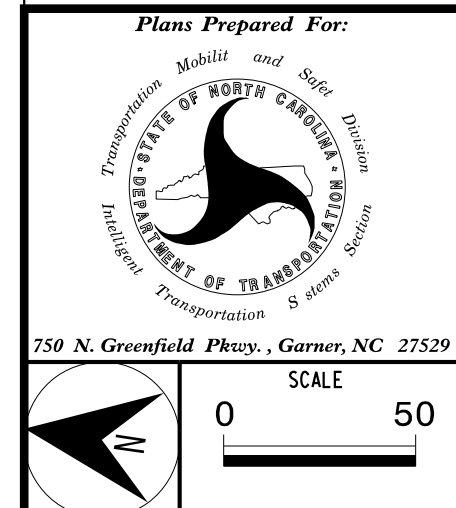
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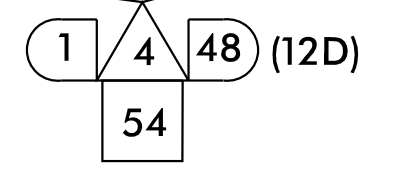
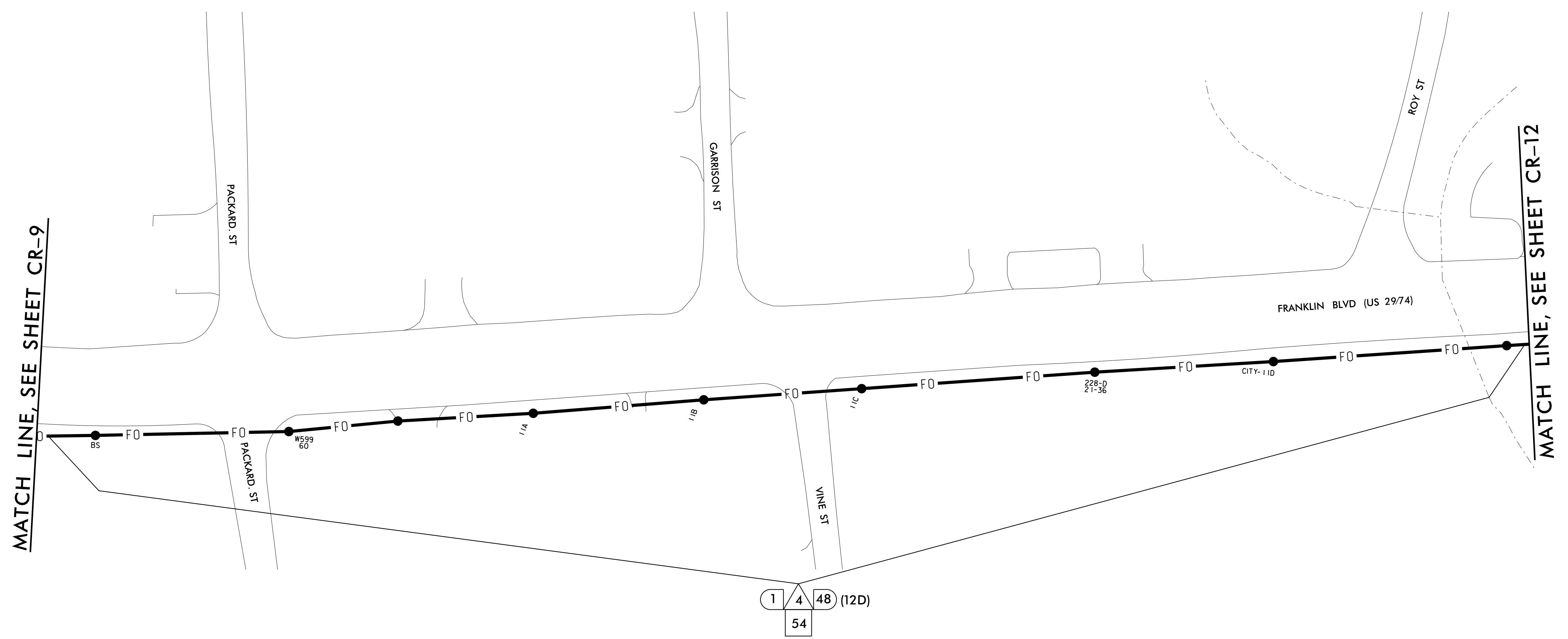
PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

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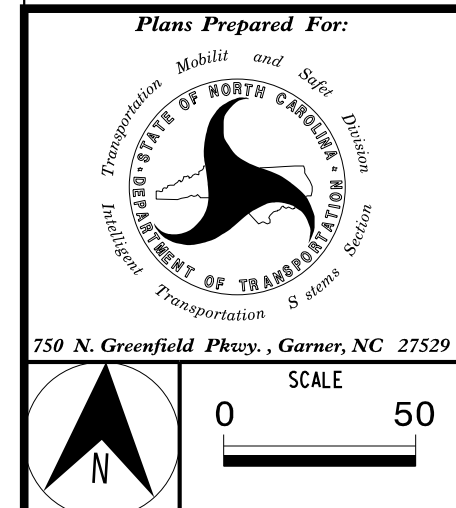
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 Fax: (919) 677-2050

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 I. VAN OSDELL
 3/18/2022
 CADD File name:



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| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21 | INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32 | INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42 | INSTALL WOOD POLE | 52A | INSTALL DELINEATOR MARKER | 61 | DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73 | MODIFY EXISTING CABINET FOUNDATION |
| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | | |

NOTES:
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Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
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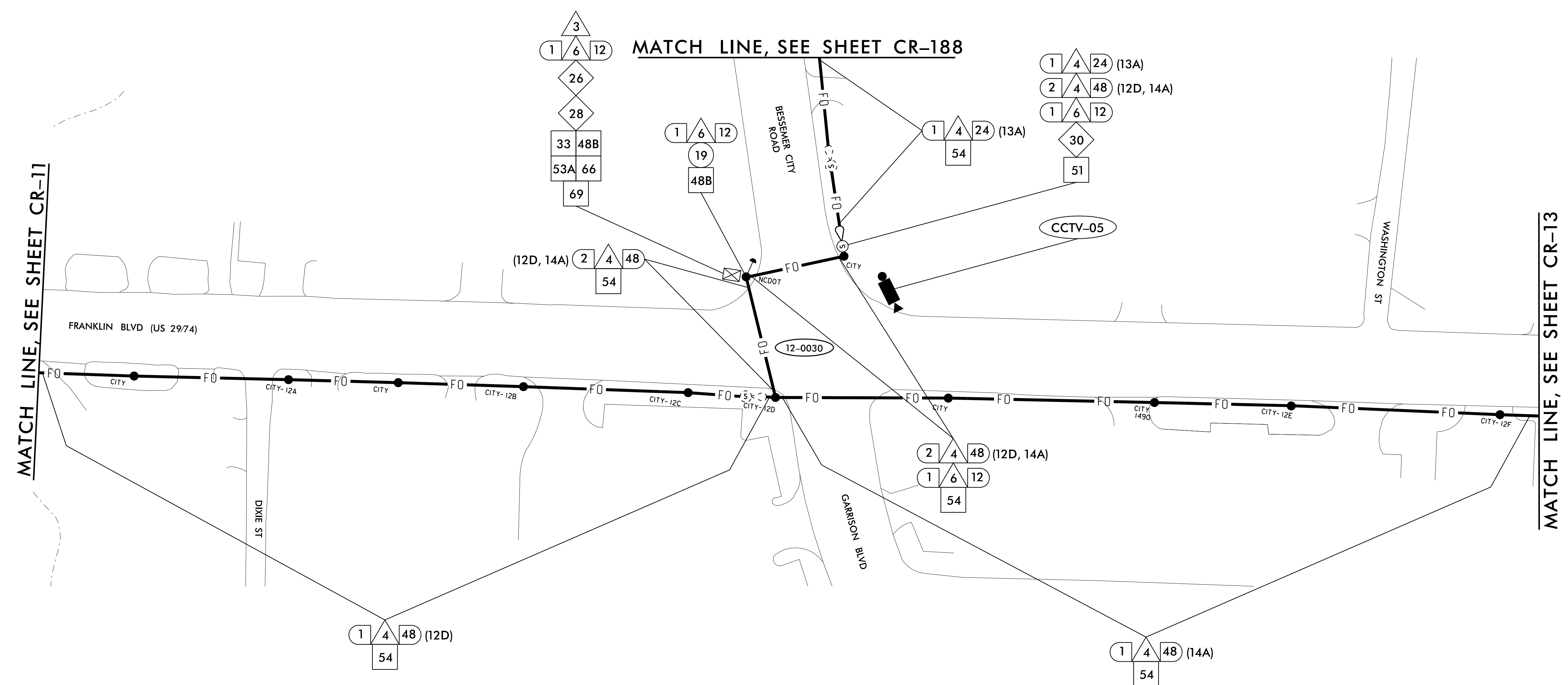
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 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
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DocuSigned by:
 Iger Van Osdel
 3/18/2022

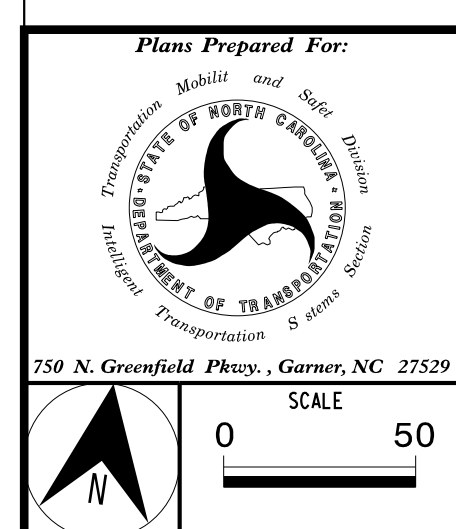
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| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL NEW ETHERNET EDGE SWITCH | 37 | INSTALL CCTV CAMERA WOOD POLE | 47 | INSTALL MESSENGER CABLE | 55 | LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67 | SLACK SPAN |
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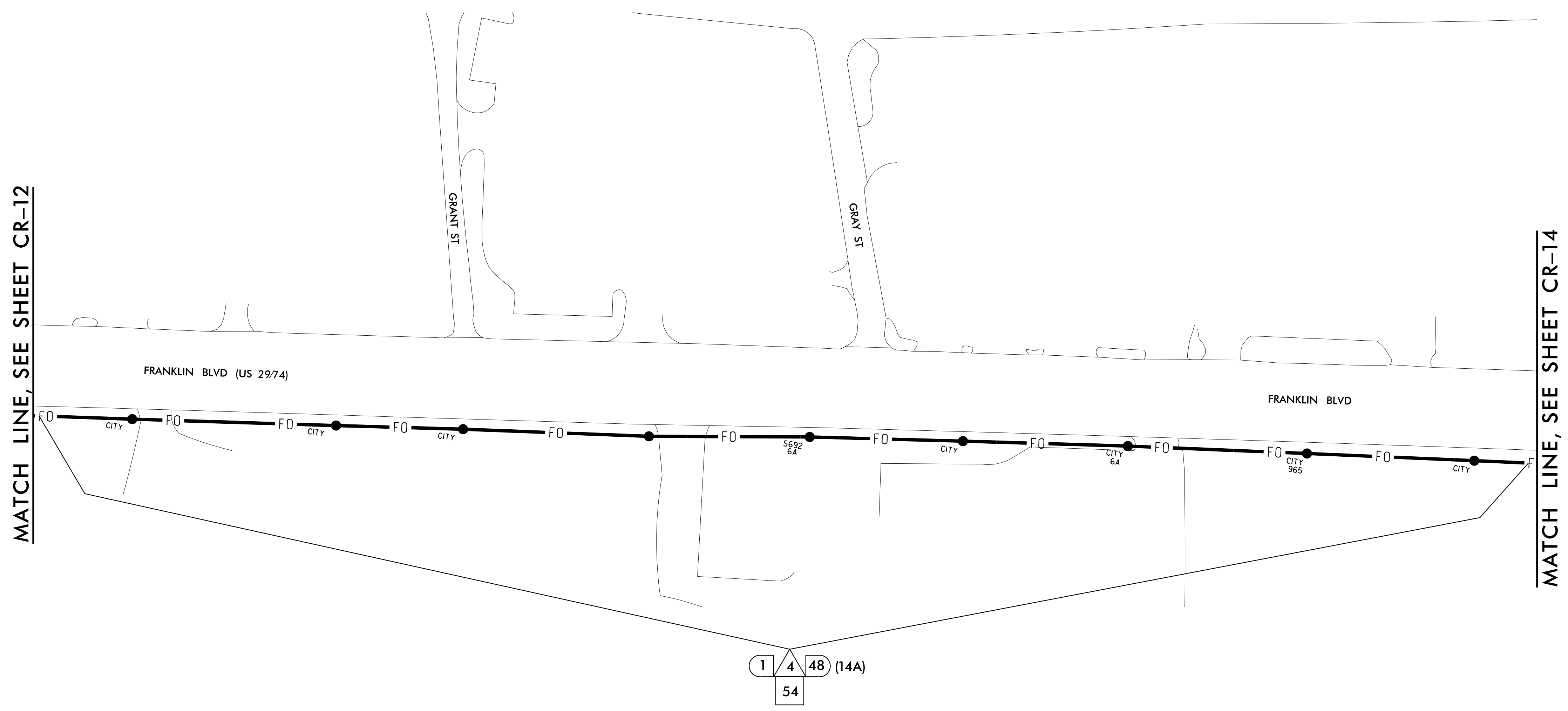


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|---|----------------------------|
| CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN | |
| DIVISION 12 | GASTON COUNTY |
| PLAN DATE: DECEMBER 2021 | REVIEWED BY: K. SMITH |
| PREPARED BY: S. BUTLER | REVIEWED BY: I. VAN OSDELL |
| REVISIONS | INIT. DATE |
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 SEAL 028952
 ROGER Z. VAN OSDEL
 DATE: 3/18/2022
 CADD File name:

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Plans Prepared For:

 250 N. Greenfield Place, Garner, NC 27529

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

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Kimley»Horn

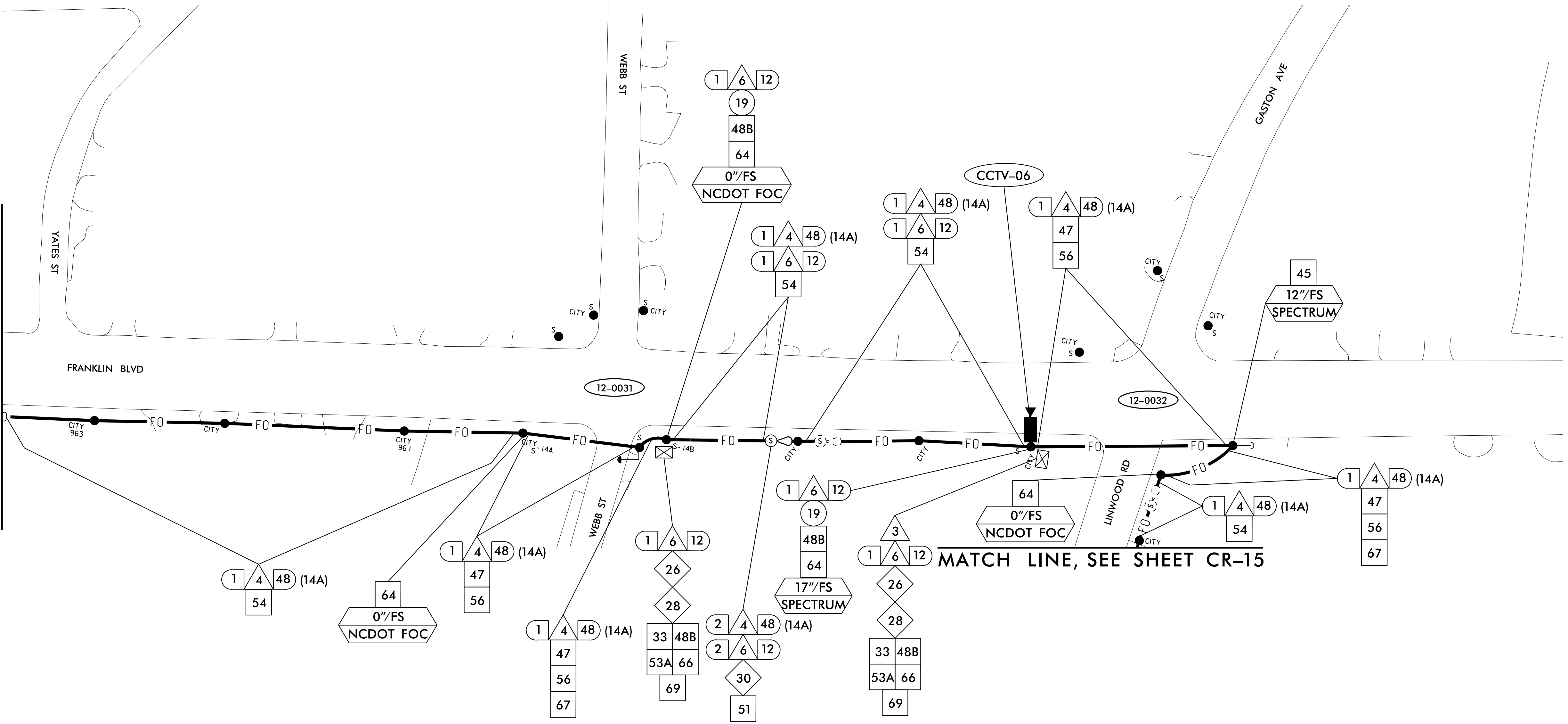
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DocuSigned by:
 I. Van OsdeLL
 3/18/2022

CADD File name:

MATCH LINE, SEE SHEET CR-13



MATCH LINE, SEE SHEET CR-15

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|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|--|
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 CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

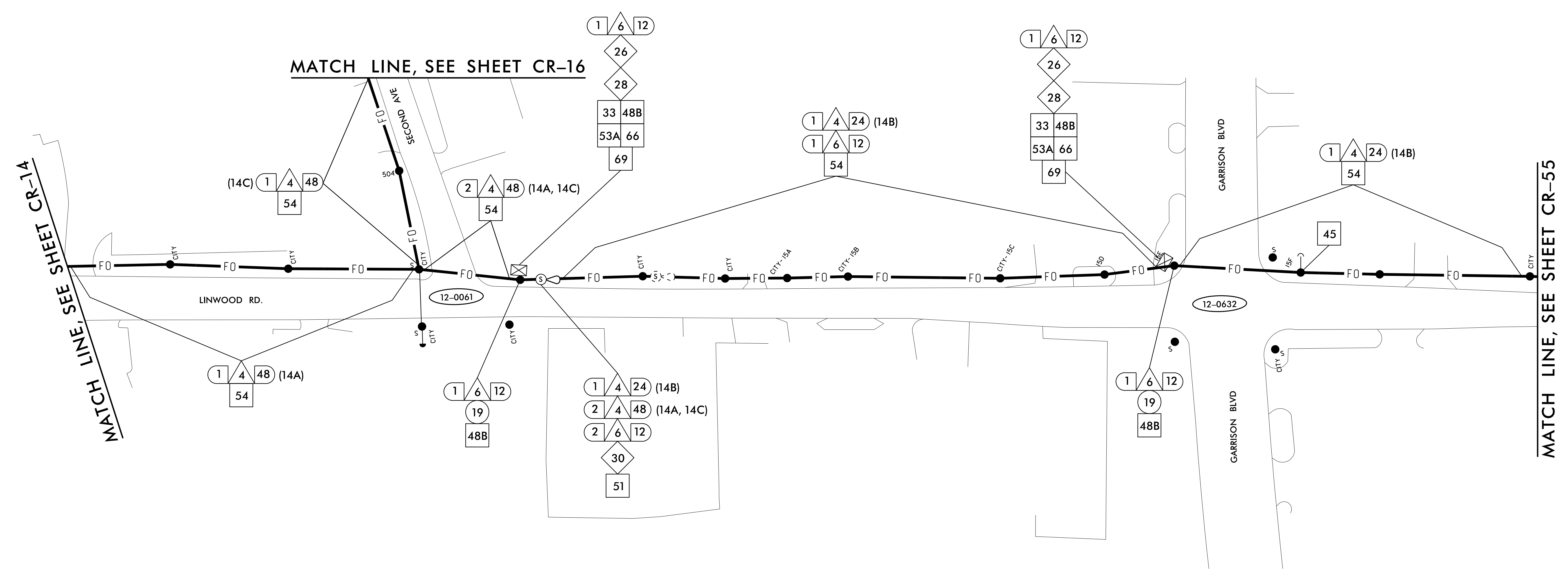
PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

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 SEAL 028952
 ROGER Z. VAN OSDEL
 DATE 3/18/2022
 CADD File name:



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| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | |

NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
 2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.



Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
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SCALE: 0 50

Kimley»Horn

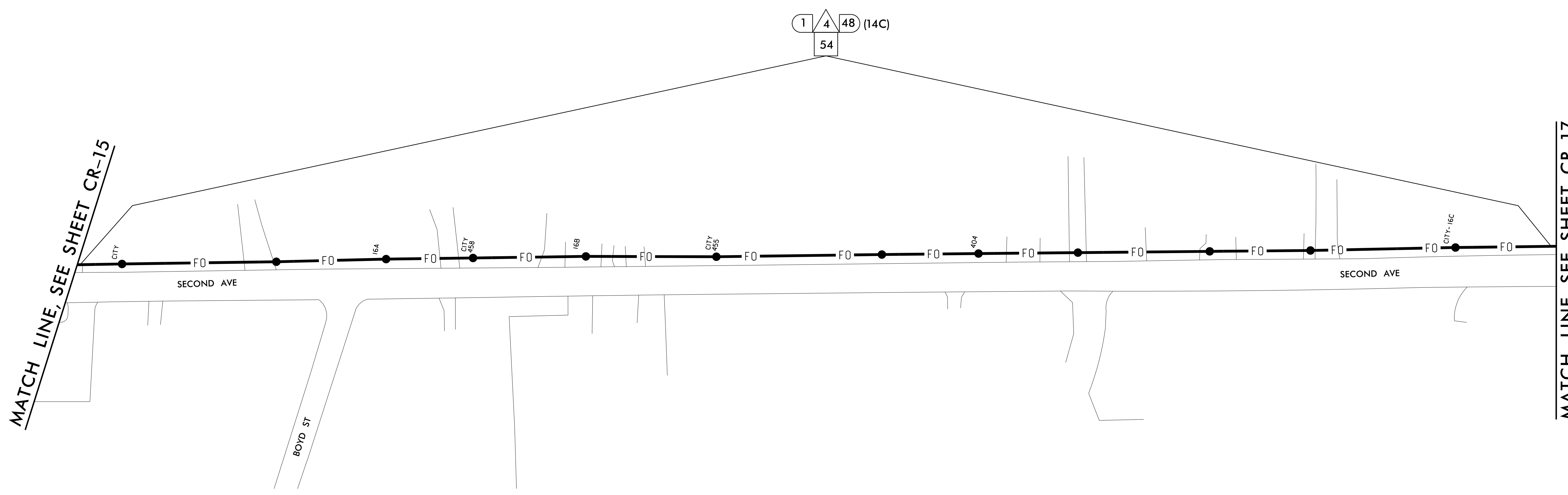
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 421 Fayetteville St., Suite 600
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 Fax: (919) 677-2050

SEAL

ROGER Z. VAN OSDEL
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 LICENSE # 028952

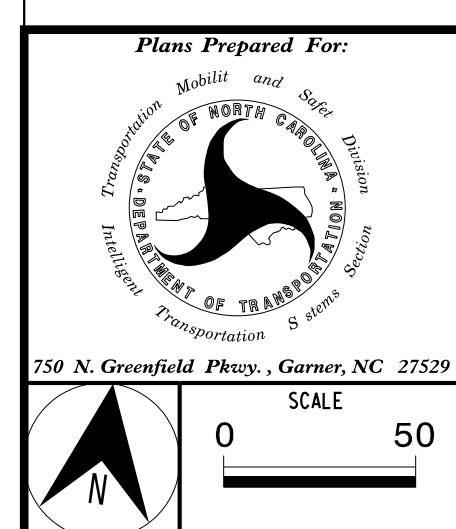
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 Roger Van Osdel
 3/18/2022

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|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET | 45 | INSTALL STANDARD GUY ASSEMBLY | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3 | EXISTING ETHERNET (OR COAX) CABLE | 14 | INSTALL POLYETHYLENE CONDUIT | 25 | INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36 | INSTALL CCTV CAMERA ASSEMBLY | 46 | INSTALL SIDEWALK GUY ASSEMBLY | 54 | LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66 | INSTALL MOLDABLE DUCT SEAL |
| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL NEW ETHERNET EDGE SWITCH | 37 | INSTALL CCTV CAMERA WOOD POLE | 47 | INSTALL MESSENGER CABLE | 55 | LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67 | SLACK SPAN |
| 5 | EXISTING SMFO CABLE | 16 | BORE AND JACK CONDUIT | 27 | INSTALL NEW FIBER OPTIC TRANSCEIVER | 38 | INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A | REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56 | LASH CABLE(S) TO NEW MESSENGER CABLE | 68 | INSTALL CABINET BASE ADAPTER |
| 6 | INSTALL FIBER OPTIC DROP CABLE | 17 | INSTALL CABLE(S) IN EXISTING CONDUIT | 28 | INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET | 39 | INSTALL JUNCTION BOX | 48B | REMOVE EXISTING COMMUNICATIONS CABLE | 57 | MODIFY EXISTING ELECTRICAL SERVICE | 69 | REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 7 | INSTALL TRACER WIRE | 18 | INSTALL CABLE(S) IN NEW CONDUIT | 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A | INSTALL OVERSIZED JUNCTION BOX | 49 | BACK PULL EXISTING COMMUNICATIONS CABLE | 58 | INSTALL NEW ELECTRICAL SERVICE | 70 | REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 8 | TRENCH | 19 | INSTALL CABLE(S) IN EXISTING RISER | 30 | INSTALL AERIAL SPLICE ENCLOSURE | 40B | INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") | 50 | INSTALL CELL MODEM AND ANTENNA | 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71 | REMOVE EXISTING CCTV CAMERA CABINET |
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NOTES:
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CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
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| | | |
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SCALE: 0 50

3/18/2022

Kimley-Horn

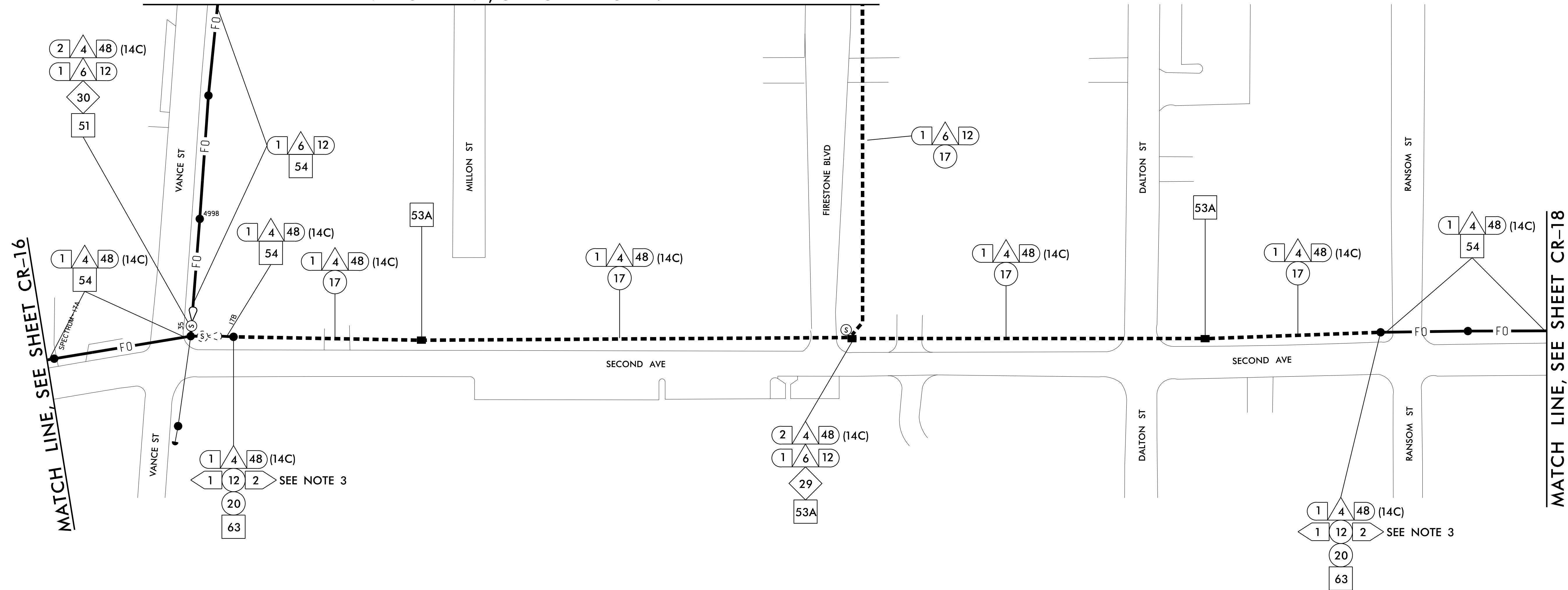
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SEAL

3/18/2022

3/17/2022 K:\ARL\TPTD\ITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SH016_CR.dgn

MATCH LINE, SEE SHEET CR-27



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|----|--|----|--|----|--|-----|--|-----|--|---------------------------|--|----------------------------------|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
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NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.
- CONNECT NEW RISER TO EXISTING SPARE CONDUIT STUB-OUT.



CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

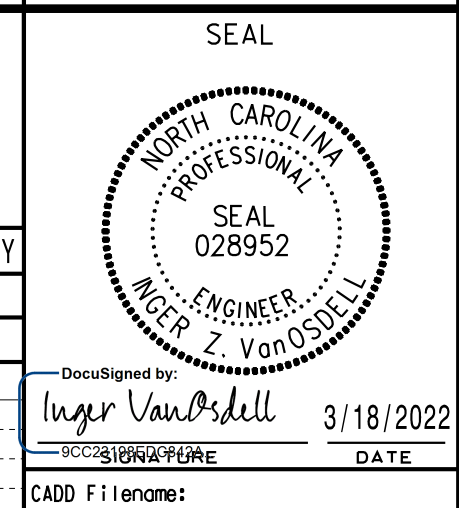
PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

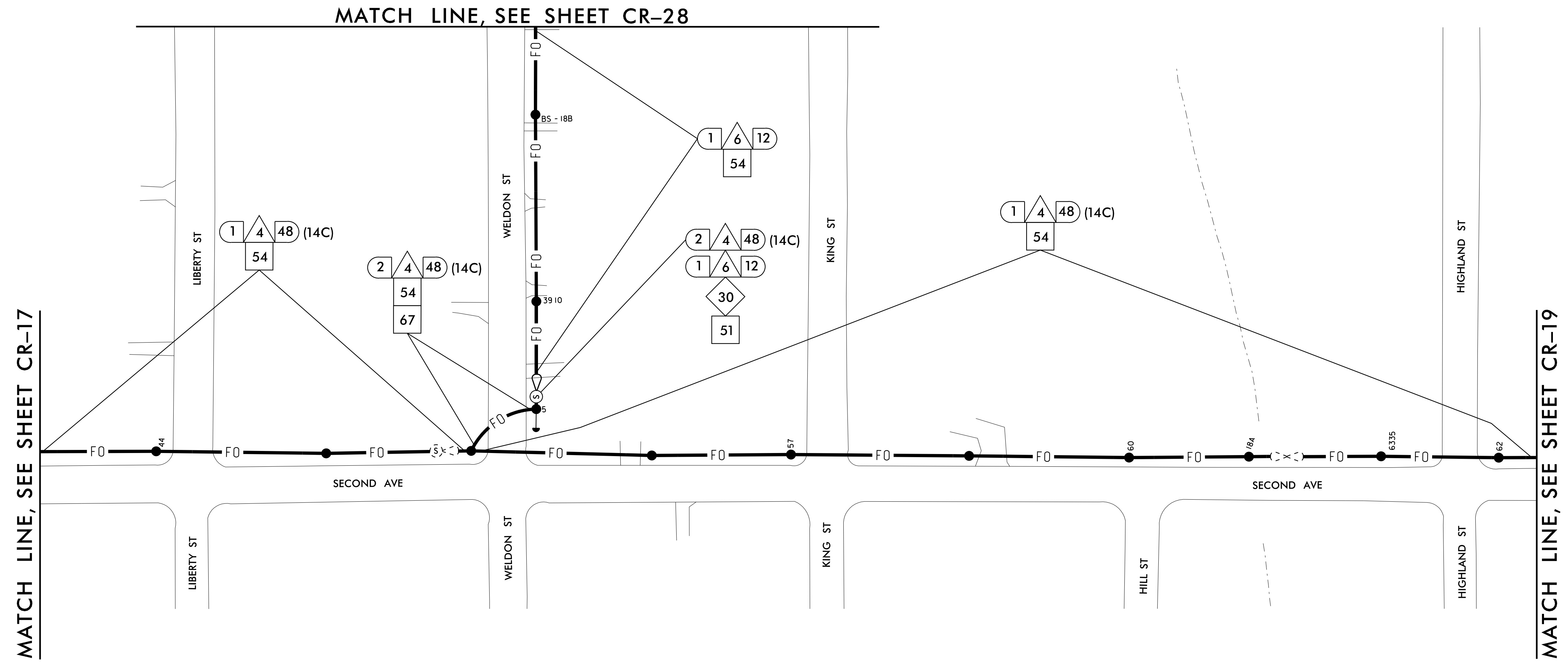
| REVISIONS | INIT. | DATE |
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Kimley»Horn

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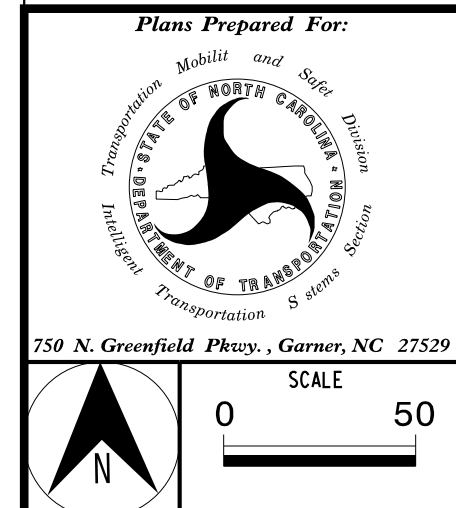


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|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|---|
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Plans Prepared For:
 CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
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| | | |

Scale: 0 to 50 feet

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 Fax: (919) 677-2050

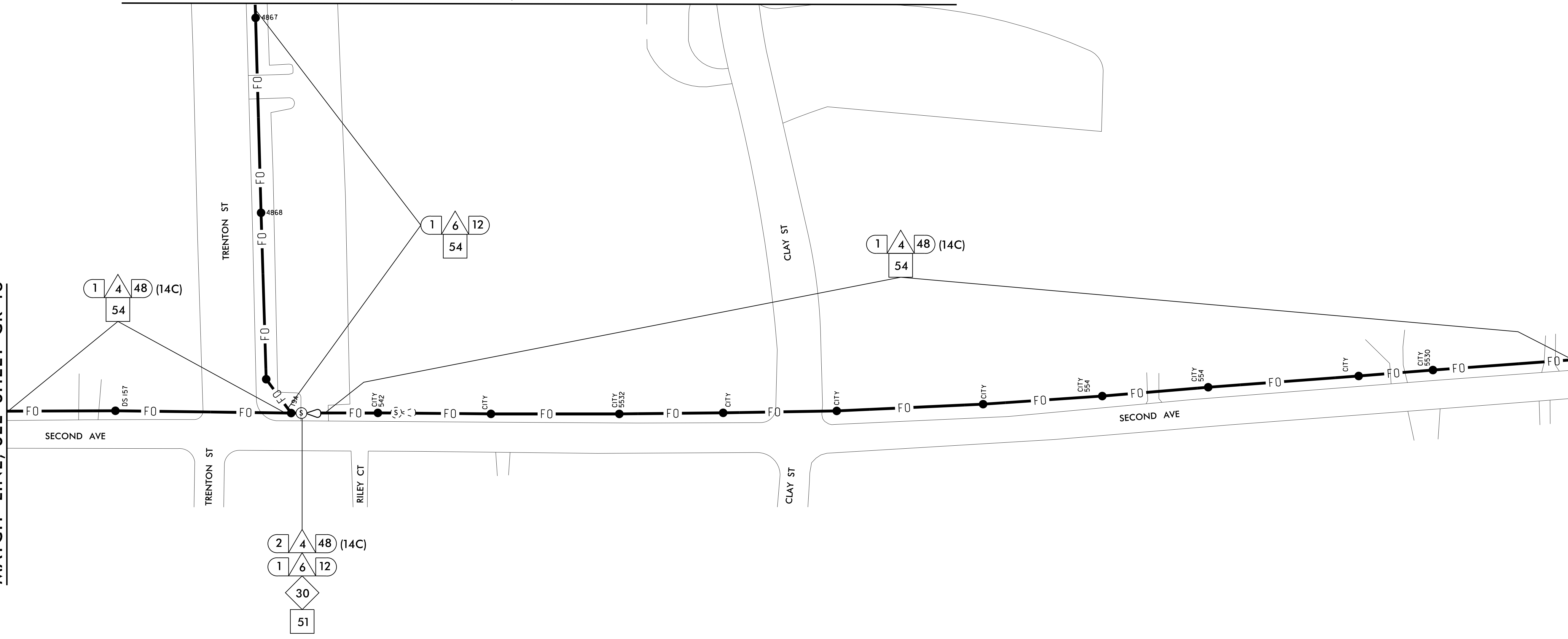
SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 IGER VAN OSDELL
 License # 028952
 Date: 3/18/2022
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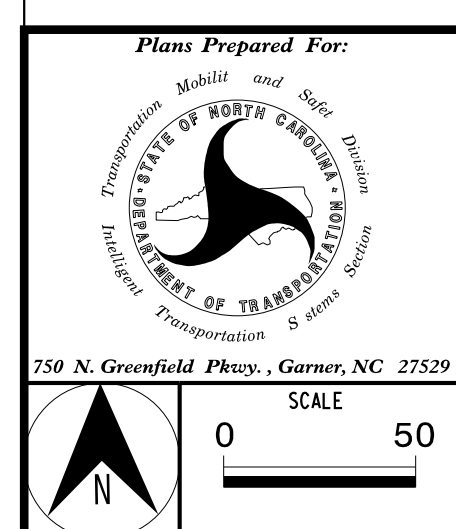
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MATCH LINE, SEE SHEET CR-20



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| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | | |

NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
 2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.



Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

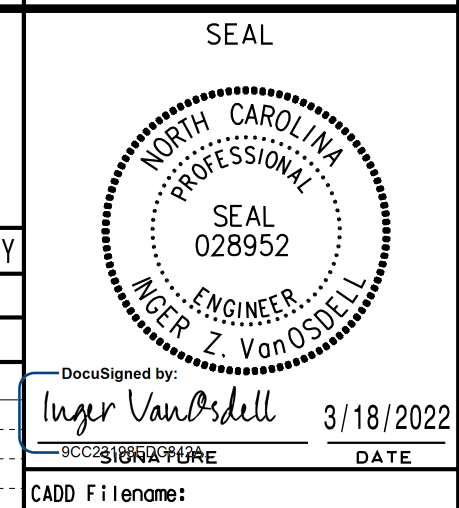
PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

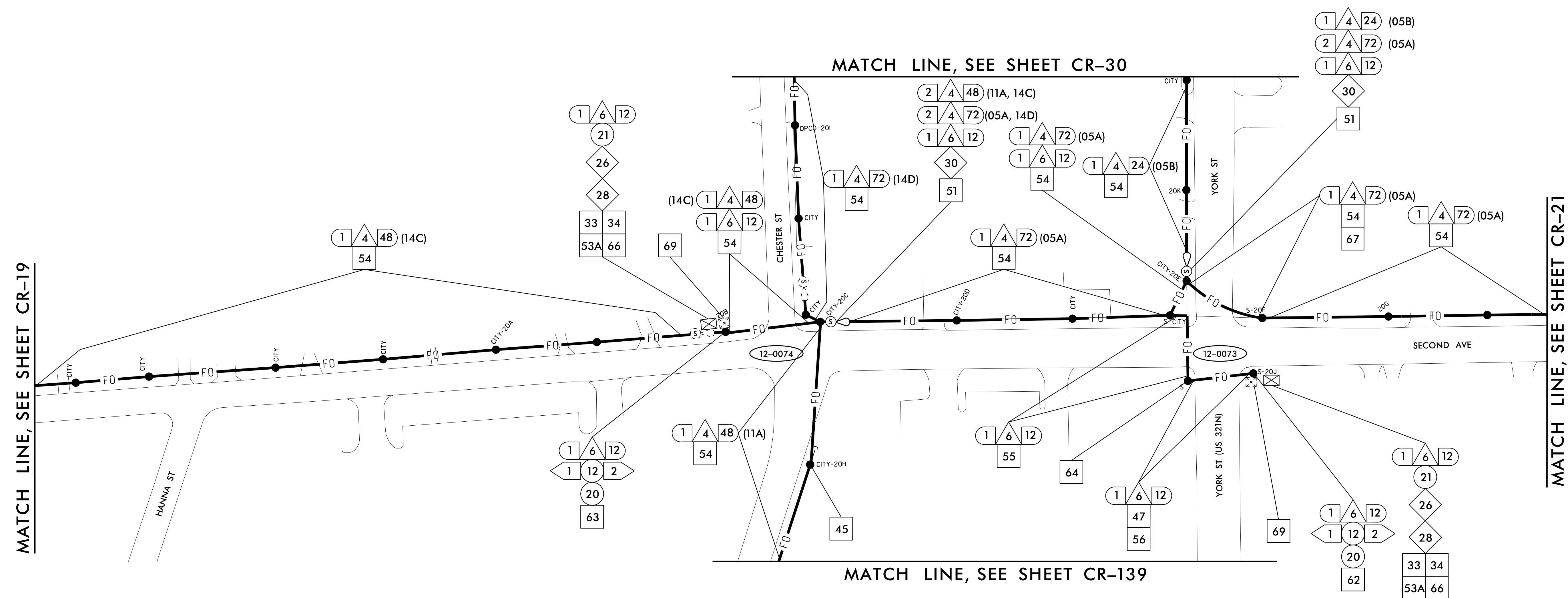
| REVISIONS | INIT. | DATE |
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SCALE: 0 50

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3/17/2022 K:\ARL\TPTD\ITS\01036569 Gastonia SignalSystem\6_Tasks\Plans\Cable Routing\SH019_CR.dgn



MATCH LINE, SEE SHEET CR-19

MATCH LINE, SEE SHEET CR-30

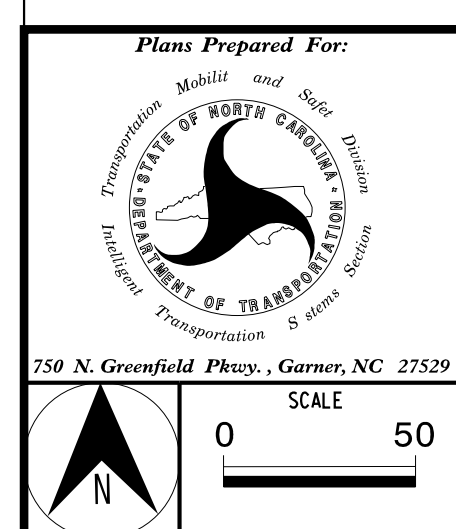
MATCH LINE, SEE SHEET CR-21

MATCH LINE, SEE SHEET CR-139

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|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET | 45 | INSTALL STANDARD GUY ASSEMBLY | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3 | EXISTING ETHERNET (OR COAX) CABLE | 14 | INSTALL POLYETHYLENE CONDUIT | 25 | INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36 | INSTALL CCTV CAMERA ASSEMBLY | 46 | INSTALL SIDEWALK GUY ASSEMBLY | 54 | LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66 | INSTALL MOLDABLE DUCT SEAL |
| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL NEW ETHERNET EDGE SWITCH | 37 | INSTALL CCTV CAMERA WOOD POLE | 47 | INSTALL MESSENGER CABLE | 55 | LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67 | SLACK SPAN |
| 5 | EXISTING SMFO CABLE | 16 | BORE AND JACK CONDUIT | 27 | INSTALL NEW FIBER OPTIC TRANSCEIVER | 38 | INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A | REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56 | LASH CABLE(S) TO NEW MESSENGER CABLE | 68 | INSTALL CABINET BASE ADAPTER |
| 6 | INSTALL FIBER OPTIC DROP CABLE | 17 | INSTALL CABLE(S) IN EXISTING CONDUIT | 28 | INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET | 39 | INSTALL JUNCTION BOX | 48B | REMOVE EXISTING COMMUNICATIONS CABLE | 57 | MODIFY EXISTING ELECTRICAL SERVICE | 69 | REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 7 | INSTALL TRACER WIRE | 18 | INSTALL CABLE(S) IN NEW CONDUIT | 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A | INSTALL OVERSIZED JUNCTION BOX | 49 | BACK PULL EXISTING COMMUNICATIONS CABLE | 58 | INSTALL NEW ELECTRICAL SERVICE | 70 | REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 8 | TRENCH | 19 | INSTALL CABLE(S) IN EXISTING RISER | 30 | INSTALL AERIAL SPLICE ENCLOSURE | 40B | INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") | 50 | INSTALL CELL MODEM AND ANTENNA | 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71 | REMOVE EXISTING CCTV CAMERA CABINET |
| 9 | INSTALL PVC CONDUIT | 20 | INSTALL CABLE(S) IN NEW RISER | 31 | MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE | 41 | REMOVE EXISTING JUNCTION BOX | 51 | INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE | 60 | BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 72 | REMOVE CABINET FOUNDATION |
| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21 | INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32 | INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42 | INSTALL WOOD POLE | 52A | INSTALL DELINEATOR MARKER | 61 | DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73 | MODIFY EXISTING CABINET FOUNDATION |
| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | | |

NOTES:

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CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
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SEAL

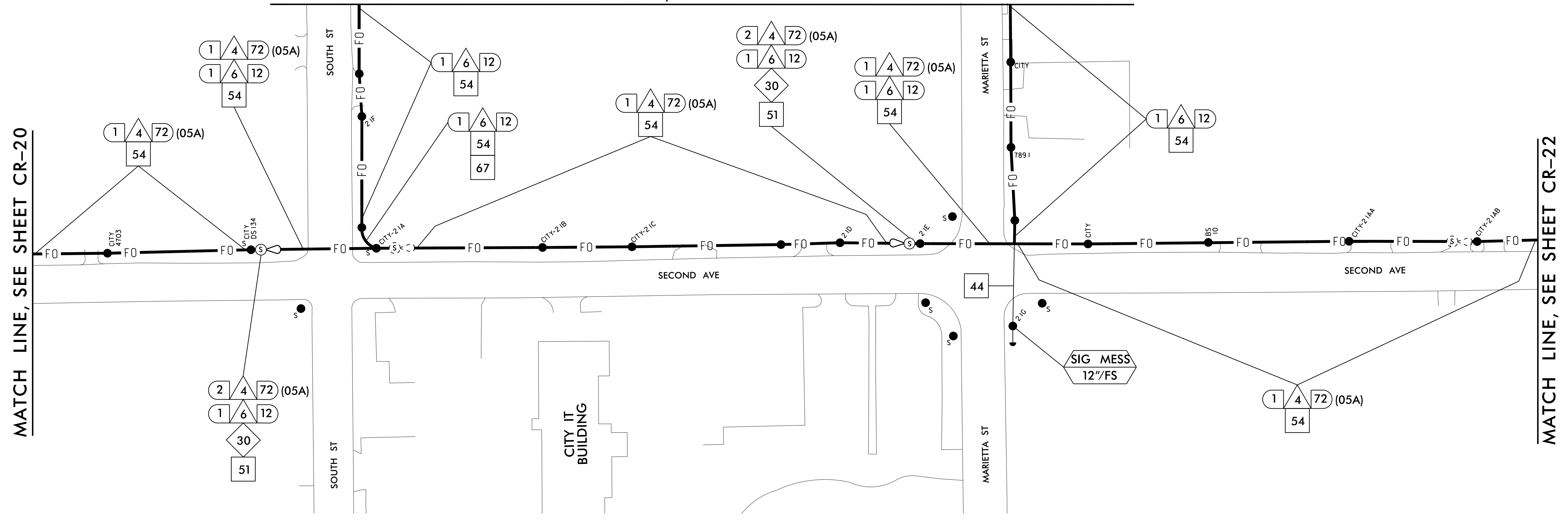
North Carolina Professional Engineer
No. 028952
I. Van Osdel

DocuSigned by:
I. Van Osdel
3/18/2022

CADD File name: _____

3/17/2022 K:\ARL\TPTD_LITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SH020_CR.dgn

MATCH LINE, SEE SHEET CR-31



MATCH LINE, SEE SHEET CR-20

MATCH LINE, SEE SHEET CR-22

| | | | | | | | | | | | | | |
|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET | 45 | INSTALL STANDARD GUY ASSEMBLY | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
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| 8 | TRENCH | 19 | INSTALL CABLE(S) IN EXISTING RISER | 30 | INSTALL AERIAL SPLICE ENCLOSURE | 40B | INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") | 50 | INSTALL CELL MODEM AND ANTENNA | 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71 | REMOVE EXISTING CCTV CAMERA CABINET |
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| | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | | |

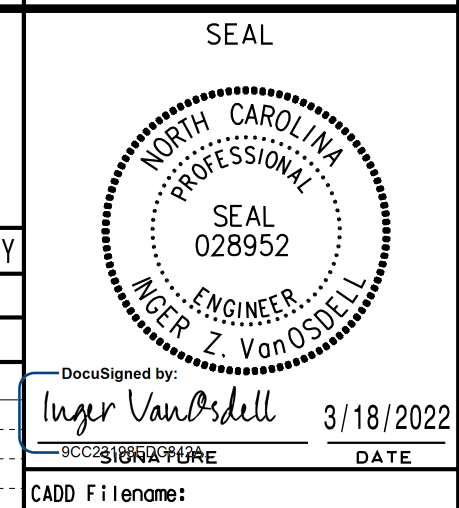
NOTES:

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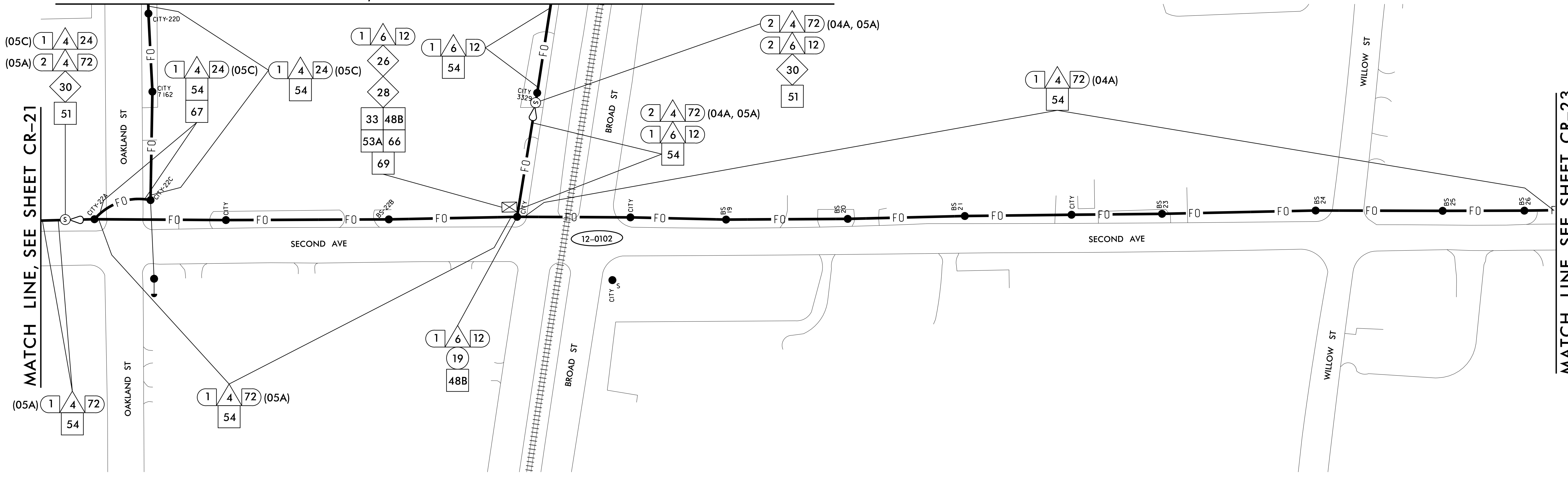
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| CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN | |
| DIVISION 12 | GASTON COUNTY |
| PLAN DATE: DECEMBER 2021 | REVIEWED BY: K. SMITH |
| PREPARED BY: S. BUTLER | REVIEWED BY: I. VAN OSDELL |
| REVISIONS | INIT. DATE |
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3/17/2022
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MATCH LINE, SEE SHEET CR-32



MATCH LINE, SEE SHEET CR-21

MATCH LINE, SEE SHEET CR-23

| | | | | | | | | | | | | | |
|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET | 45 | INSTALL STANDARD GUY ASSEMBLY | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
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| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL NEW ETHERNET EDGE SWITCH | 37 | INSTALL CCTV CAMERA WOOD POLE | 47 | INSTALL MESSENGER CABLE | 55 | LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67 | SLACK SPAN |
| 5 | EXISTING SMFO CABLE | 16 | BORE AND JACK CONDUIT | 27 | INSTALL NEW FIBER OPTIC TRANSCEIVER | 38 | INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A | REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56 | LASH CABLE(S) TO NEW MESSENGER CABLE | 68 | INSTALL CABINET BASE ADAPTER |
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| 8 | TRENCH | 19 | INSTALL CABLE(S) IN EXISTING RISER | 30 | INSTALL AERIAL SPLICE ENCLOSURE | 40B | INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") | 50 | INSTALL CELL MODEM AND ANTENNA | 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71 | REMOVE EXISTING CCTV CAMERA CABINET |
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| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
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NOTES:

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CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

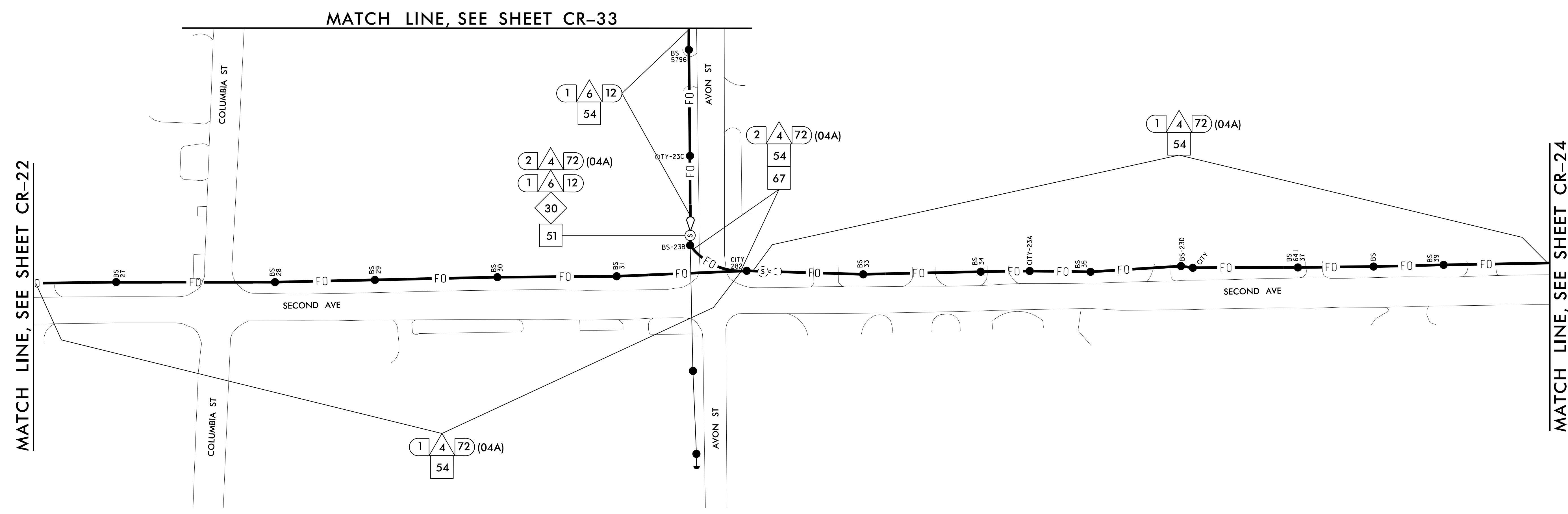
PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH
 PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 I. VAN OSDELL
 DATE 3/18/2022
 CADD File name:

3/17/2022 K:\RAL\TPTD\ITS\01036569 Gastonia SignalSystem\6_Tasks\Plans\Cable Routing\SH022-CR.dgn



MATCH LINE, SEE SHEET CR-22

MATCH LINE, SEE SHEET CR-33

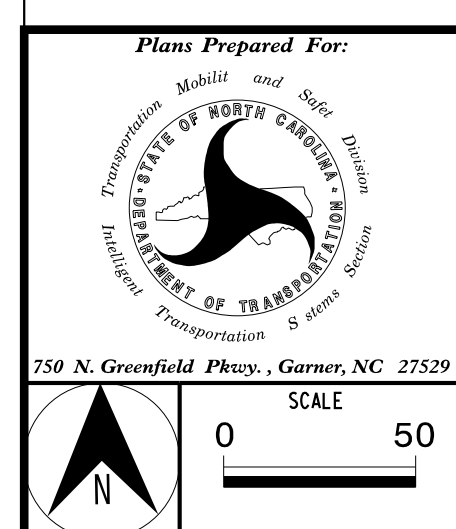
MATCH LINE, SEE SHEET CR-24

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|----|--|----|--|----|--|-----|--|-----|--|---------------------------|--|----------------------------------|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
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| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21 | INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32 | INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42 | INSTALL WOOD POLE | 52A | INSTALL DELINEATOR MARKER | 61 | DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73 | MODIFY EXISTING CABINET FOUNDATION |
| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | |

NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.



Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
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| | | |
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Scale: 0 50

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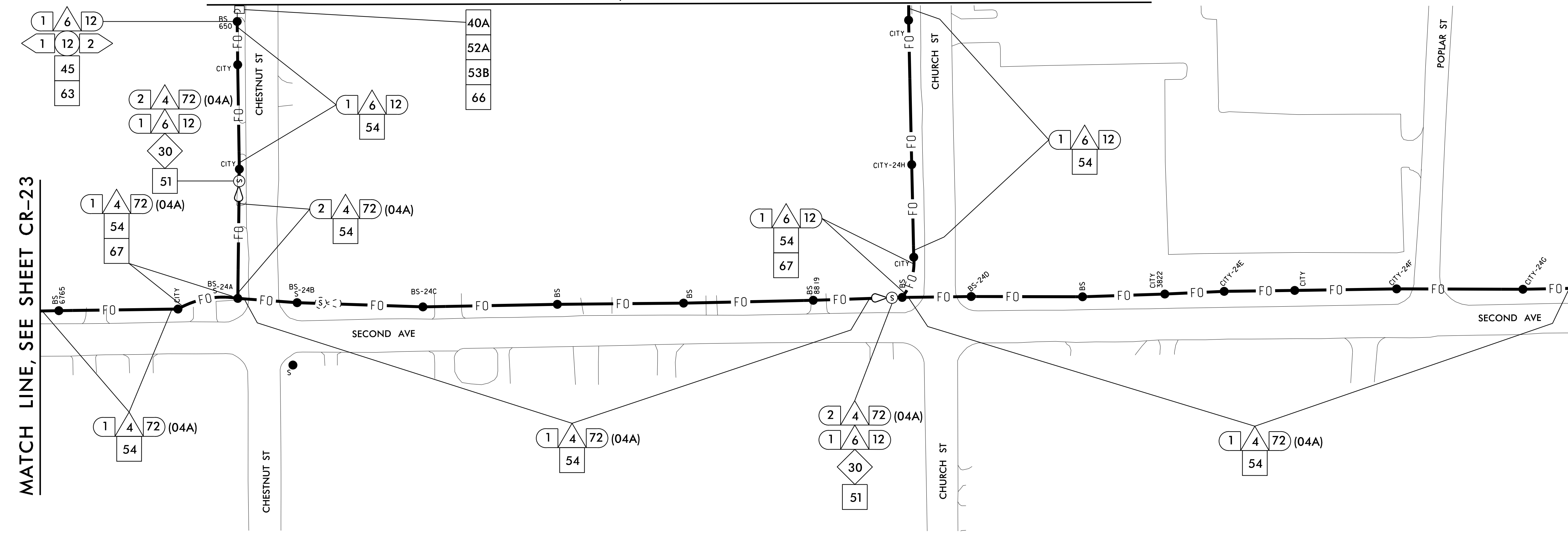
SEAL

North Carolina Professional Engineer Seal
I. Van Osdel
License # 28952

DocuSigned by:
I. Van Osdel
3/18/2022

CADD File name:

MATCH LINE, SEE SHEET CR-34

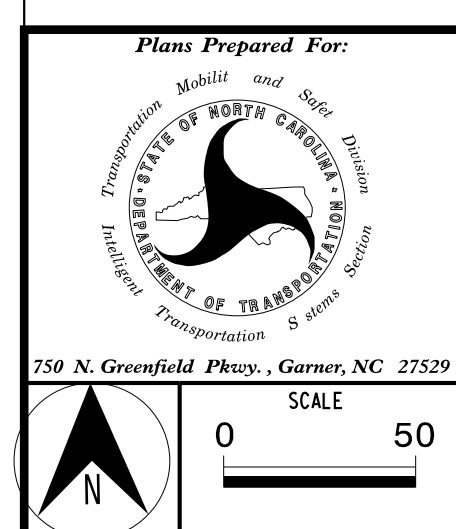


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MATCH LINE, SEE SHEET CR-25

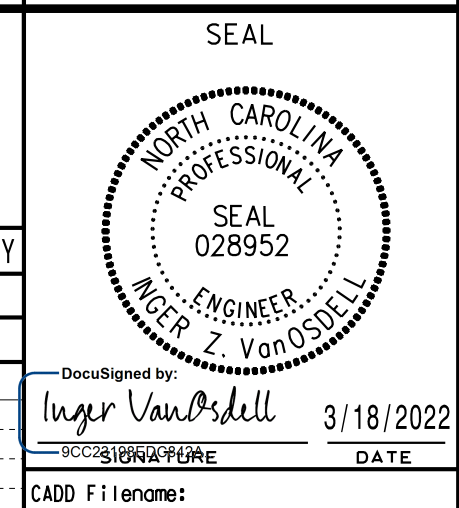
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|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET | 45 | INSTALL STANDARD GUY ASSEMBLY | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3 | EXISTING ETHERNET (OR COAX) CABLE | 14 | INSTALL POLYETHYLENE CONDUIT | 25 | INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36 | INSTALL CCTV CAMERA ASSEMBLY | 46 | INSTALL SIDEWALK GUY ASSEMBLY | 54 | LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66 | INSTALL MOLDABLE DUCT SEAL |
| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL NEW ETHERNET EDGE SWITCH | 37 | INSTALL CCTV CAMERA WOOD POLE | 47 | INSTALL MESSENGER CABLE | 55 | LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67 | SLACK SPAN |
| 5 | EXISTING SMFO CABLE | 16 | BORE AND JACK CONDUIT | 27 | INSTALL NEW FIBER OPTIC TRANSCEIVER | 38 | INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A | REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56 | LASH CABLE(S) TO NEW MESSENGER CABLE | 68 | INSTALL CABINET BASE ADAPTER |
| 6 | INSTALL FIBER OPTIC DROP CABLE | 17 | INSTALL CABLE(S) IN EXISTING CONDUIT | 28 | INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET | 39 | INSTALL JUNCTION BOX | 48B | REMOVE EXISTING COMMUNICATIONS CABLE | 57 | MODIFY EXISTING ELECTRICAL SERVICE | 69 | REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 7 | INSTALL TRACER WIRE | 18 | INSTALL CABLE(S) IN NEW CONDUIT | 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A | INSTALL OVERSIZED JUNCTION BOX | 49 | BACK PULL EXISTING COMMUNICATIONS CABLE | 58 | INSTALL NEW ELECTRICAL SERVICE | 70 | REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 8 | TRENCH | 19 | INSTALL CABLE(S) IN EXISTING RISER | 30 | INSTALL AERIAL SPLICE ENCLOSURE | 40B | INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") | 50 | INSTALL CELL MODEM AND ANTENNA | 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71 | REMOVE EXISTING CCTV CAMERA CABINET |
| 9 | INSTALL PVC CONDUIT | 20 | INSTALL CABLE(S) IN NEW RISER | 31 | MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE | 41 | REMOVE EXISTING JUNCTION BOX | 51 | INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE | 60 | BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 72 | REMOVE CABINET FOUNDATION |
| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21 | INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32 | INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42 | INSTALL WOOD POLE | 52A | INSTALL DELINEATOR MARKER | 61 | DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73 | MODIFY EXISTING CABINET FOUNDATION |
| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | | |

NOTES:
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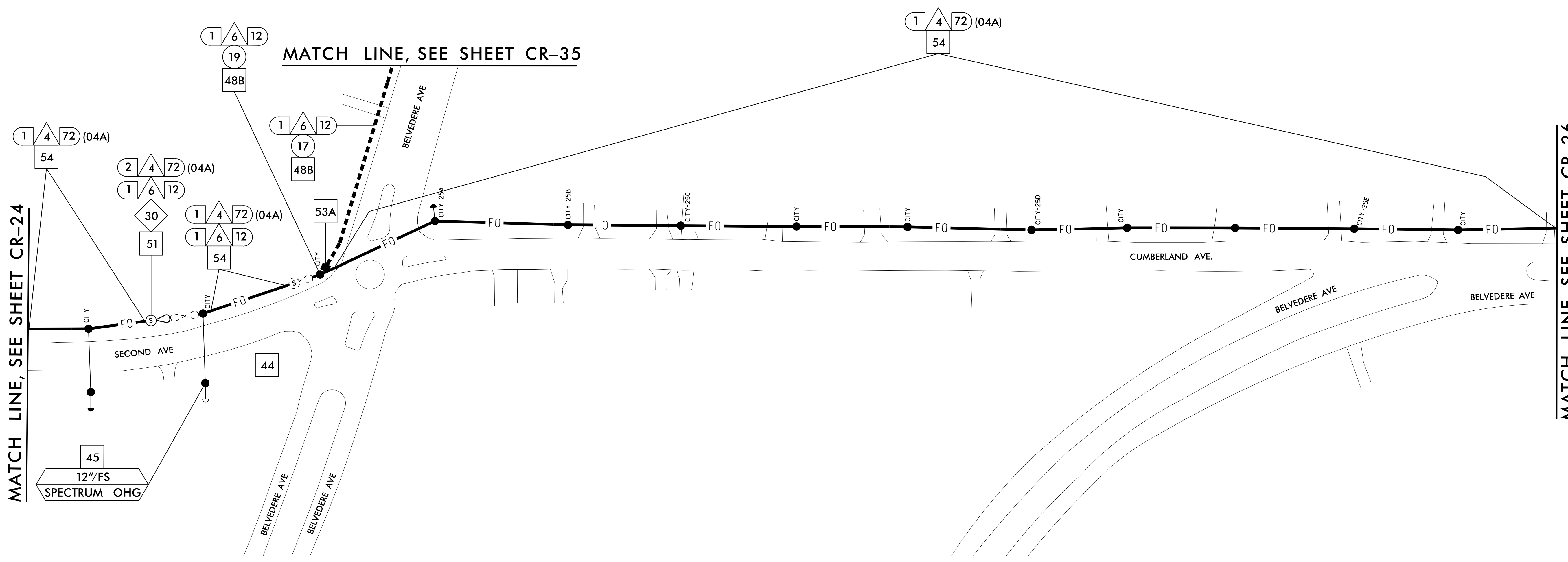


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|---|----------------------------|
| CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN | |
| DIVISION 12 | GASTON COUNTY |
| PLAN DATE: DECEMBER 2021 | REVIEWED BY: K. SMITH |
| PREPARED BY: S. BUTLER | REVIEWED BY: I. VAN OSDELL |
| REVISIONS | INIT. DATE |
| | |
| | |

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MATCH LINE, SEE SHEET CR-24

MATCH LINE, SEE SHEET CR-35

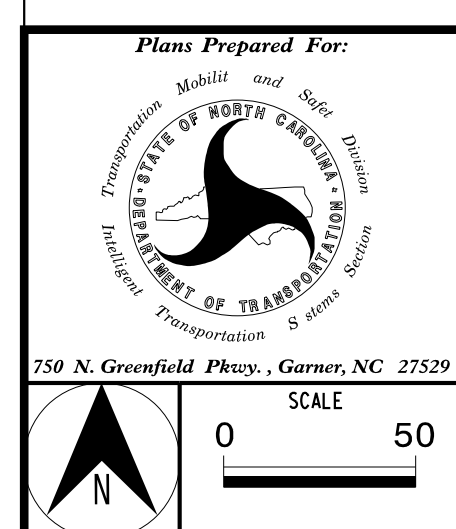
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|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET | 45 | INSTALL STANDARD GUY ASSEMBLY | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3 | EXISTING ETHERNET (OR COAX) CABLE | 14 | INSTALL POLYETHYLENE CONDUIT | 25 | INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36 | INSTALL CCTV CAMERA ASSEMBLY | 46 | INSTALL SIDEWALK GUY ASSEMBLY | 54 | LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66 | INSTALL MOLDBLE DUCT SEAL |
| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL NEW ETHERNET EDGE SWITCH | 37 | INSTALL CCTV CAMERA WOOD POLE | 47 | INSTALL MESSENGER CABLE | 55 | LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67 | SLACK SPAN |
| 5 | EXISTING SMFO CABLE | 16 | BORE AND JACK CONDUIT | 27 | INSTALL NEW FIBER OPTIC TRANSCEIVER | 38 | INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A | REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56 | LASH CABLE(S) TO NEW MESSENGER CABLE | 68 | INSTALL CABINET BASE ADAPTER |
| 6 | INSTALL FIBER OPTIC DROP CABLE | 17 | INSTALL CABLE(S) IN EXISTING CONDUIT | 28 | INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET | 39 | INSTALL JUNCTION BOX | 48B | REMOVE EXISTING COMMUNICATIONS CABLE | 57 | MODIFY EXISTING ELECTRICAL SERVICE | 69 | REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 7 | INSTALL TRACER WIRE | 18 | INSTALL CABLE(S) IN NEW CONDUIT | 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A | INSTALL OVERSIZED JUNCTION BOX | 49 | BACK PULL EXISTING COMMUNICATIONS CABLE | 58 | INSTALL NEW ELECTRICAL SERVICE | 70 | REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 8 | TRENCH | 19 | INSTALL CABLE(S) IN EXISTING RISER | 30 | INSTALL AERIAL SPLICE ENCLOSURE | 40B | INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") | 50 | INSTALL CELL MODEM AND ANTENNA | 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71 | REMOVE EXISTING CCTV CAMERA CABINET |
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| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21 | INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32 | INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42 | INSTALL WOOD POLE | 52A | INSTALL DELINEATOR MARKER | 61 | DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73 | MODIFY EXISTING CABINET FOUNDATION |
| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | | |

NOTES:

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Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
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Scale: 0 to 50 feet

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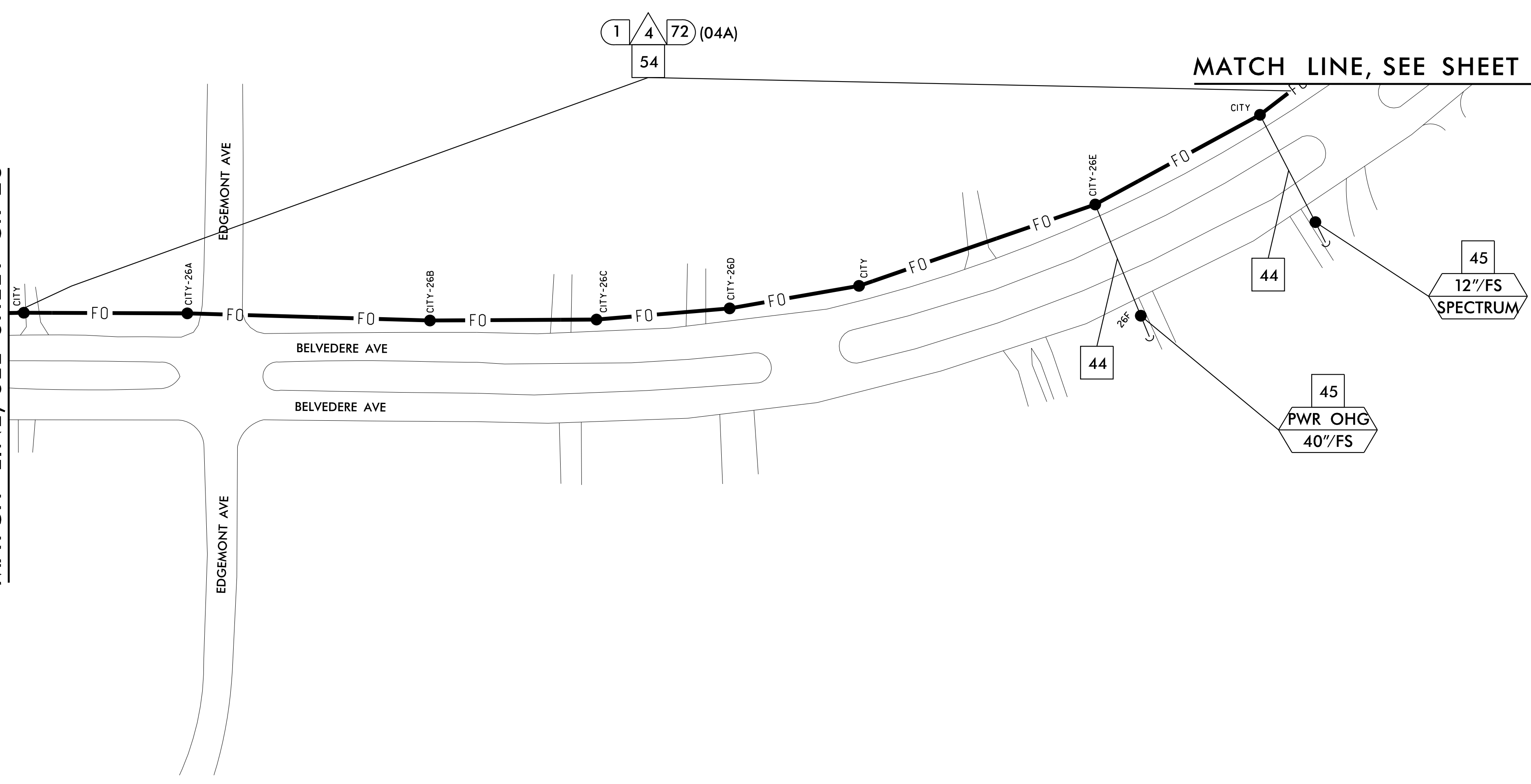
SEAL

Iger Van Osdel
Professional Engineer
North Carolina License #028952

DATE: 3/18/2022

MATCH LINE, SEE SHEET CR-25

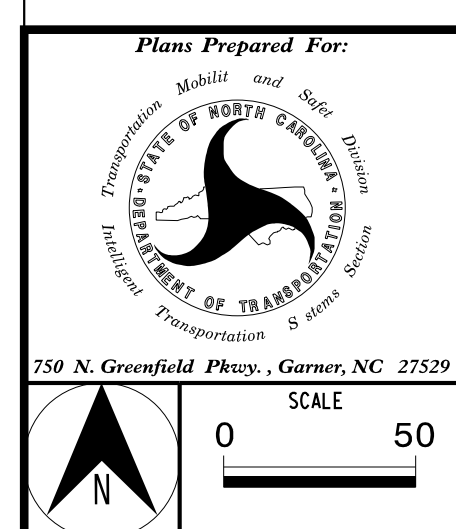
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|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET | 45 | INSTALL STANDARD GUY ASSEMBLY | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
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| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL NEW ETHERNET EDGE SWITCH | 37 | INSTALL CCTV CAMERA WOOD POLE | 47 | INSTALL MESSENGER CABLE | 55 | LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67 | SLACK SPAN |
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| 7 | INSTALL TRACER WIRE | 18 | INSTALL CABLE(S) IN NEW CONDUIT | 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A | INSTALL OVERSIZED JUNCTION BOX | 49 | BACK PULL EXISTING COMMUNICATIONS CABLE | 58 | INSTALL NEW ELECTRICAL SERVICE | 70 | REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 8 | TRENCH | 19 | INSTALL CABLE(S) IN EXISTING RISER | 30 | INSTALL AERIAL SPLICE ENCLOSURE | 40B | INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") | 50 | INSTALL CELL MODEM AND ANTENNA | 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71 | REMOVE EXISTING CCTV CAMERA CABINET |
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Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
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Scale: 0 50

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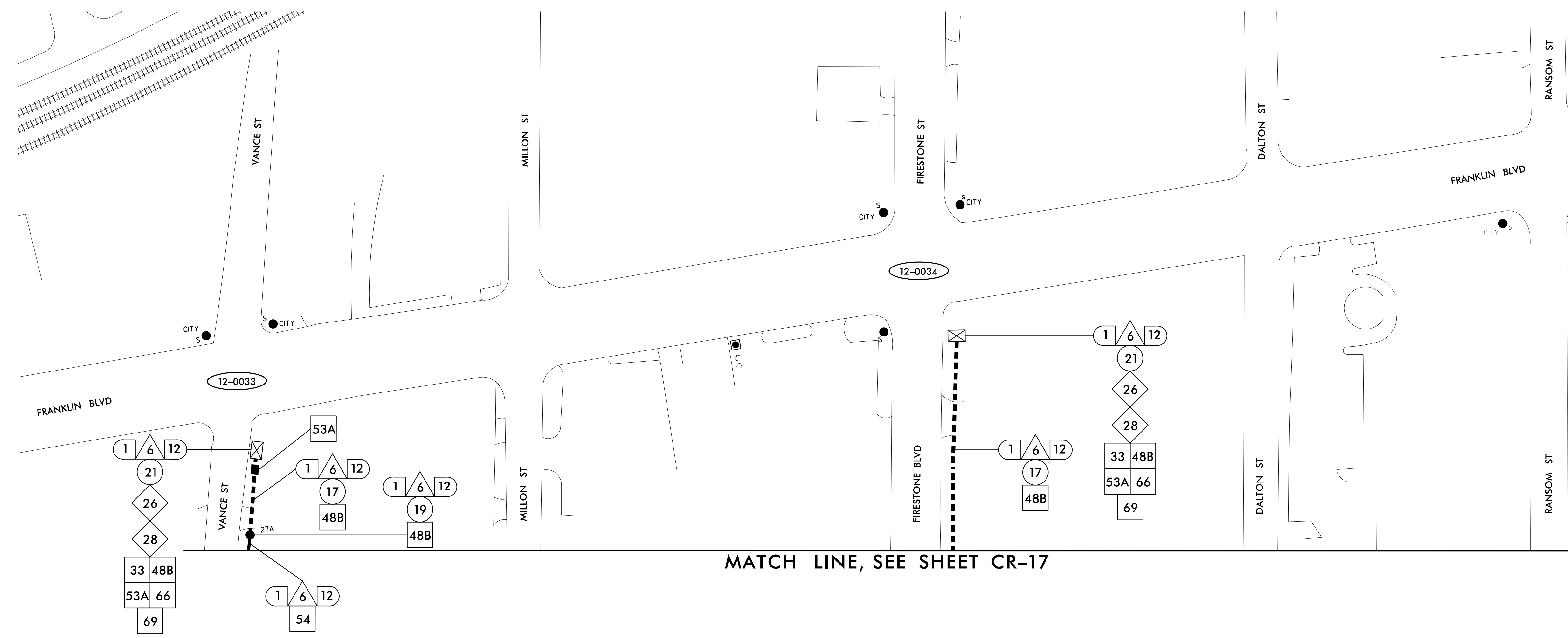
SEAL

Kimley-Horn

Professional Engineer
 License # 028952
 I. Van Osdel

DocuSigned by:
 I. Van Osdel
 3/18/2022

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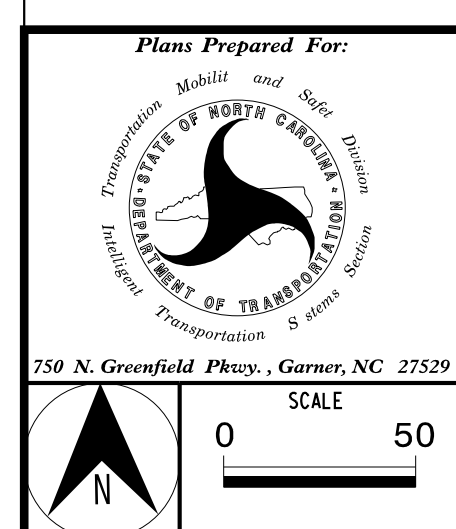
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|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET | 45 | INSTALL STANDARD GUY ASSEMBLY | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
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| 7 | INSTALL TRACER WIRE | 18 | INSTALL CABLE(S) IN NEW CONDUIT | 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A | INSTALL OVERSIZED JUNCTION BOX | 49 | BACK PULL EXISTING COMMUNICATIONS CABLE | 58 | INSTALL NEW ELECTRICAL SERVICE | 70 | REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 8 | TRENCH | 19 | INSTALL CABLE(S) IN EXISTING RISER | 30 | INSTALL AERIAL SPLICE ENCLOSURE | 40B | INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") | 50 | INSTALL CELL MODEM AND ANTENNA | 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71 | REMOVE EXISTING CCTV CAMERA CABINET |
| 9 | INSTALL PVC CONDUIT | 20 | INSTALL CABLE(S) IN NEW RISER | 31 | MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE | 41 | REMOVE EXISTING JUNCTION BOX | 51 | INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE | 60 | BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 72 | REMOVE CABINET FOUNDATION |
| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21 | INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32 | INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42 | INSTALL WOOD POLE | 52A | INSTALL DELINEATOR MARKER | 61 | DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73 | MODIFY EXISTING CABINET FOUNDATION |
| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | | |

NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.



| | |
|--|----------------------------|
| CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN | |
| DIVISION 12 | GASTON COUNTY |
| PLAN DATE: DECEMBER 2021 | REVIEWED BY: K. SMITH |
| PREPARED BY: S. BUTLER | REVIEWED BY: I. VAN OSDELL |
| REVISIONS | INIT. DATE |
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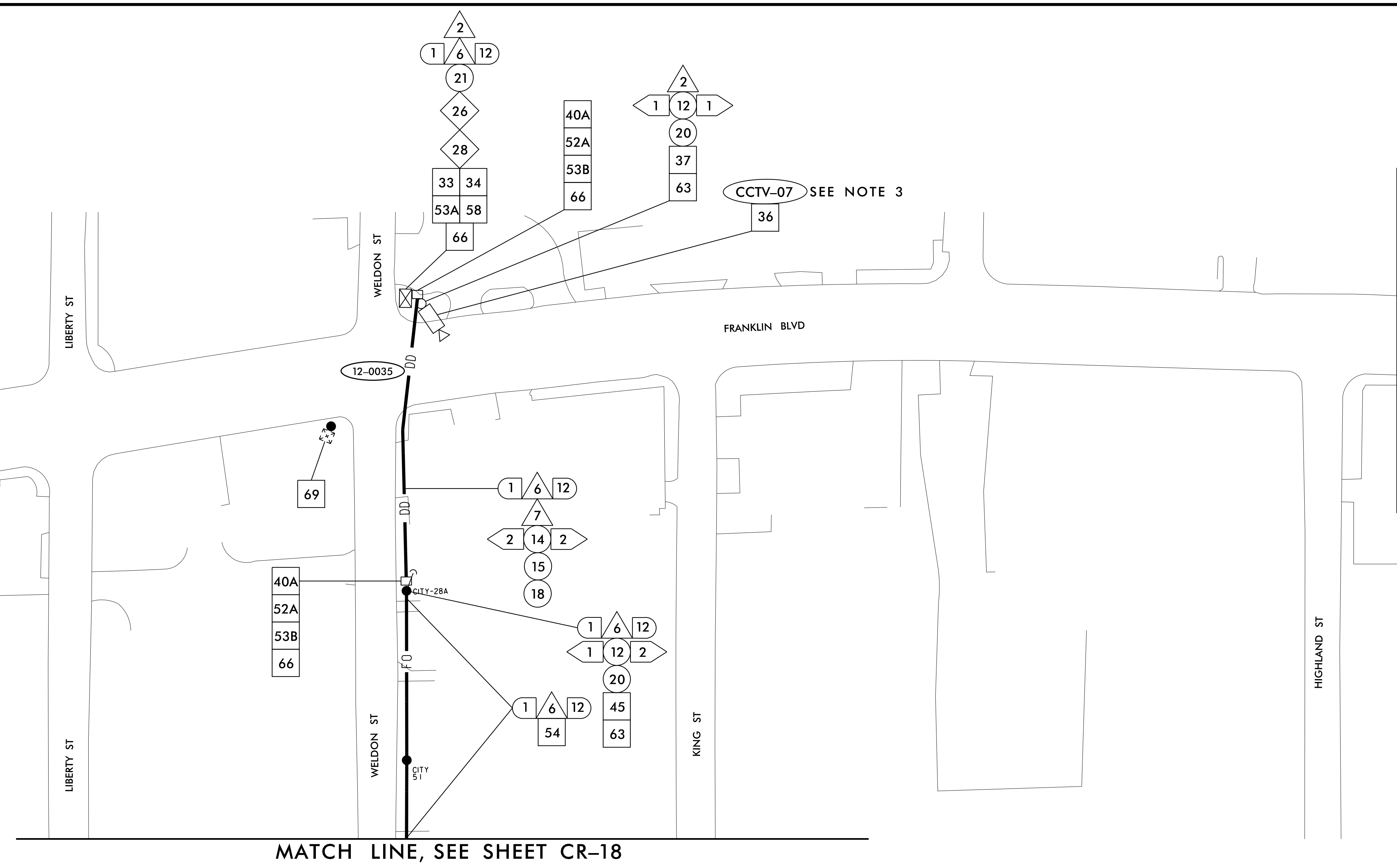
SEAL

North Carolina Professional Engineer
Iger Van Osdel
3/18/2022

3/17/2022
 K:\ARL\TPTD\ITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SH027_CR.dgn

MATCH LINE, SEE SHEET CR-27

MATCH LINE, SEE SHEET CR-29



MATCH LINE, SEE SHEET CR-18

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|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET | 45 | INSTALL STANDARD GUY ASSEMBLY | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3 | EXISTING ETHERNET (OR COAX) CABLE | 14 | INSTALL POLYETHYLENE CONDUIT | 25 | INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36 | INSTALL CCTV CAMERA ASSEMBLY | 46 | INSTALL SIDEWALK GUY ASSEMBLY | 54 | LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66 | INSTALL MOLDBALE DUCT SEAL |
| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL NEW ETHERNET EDGE SWITCH | 37 | INSTALL CCTV CAMERA WOOD POLE | 47 | INSTALL MESSENGER CABLE | 55 | LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67 | SLACK SPAN |
| 5 | EXISTING SMFO CABLE | 16 | BORE AND JACK CONDUIT | 27 | INSTALL NEW FIBER OPTIC TRANSCEIVER | 38 | INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A | REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56 | LASH CABLE(S) TO NEW MESSENGER CABLE | 68 | INSTALL CABINET BASE ADAPTER |
| 6 | INSTALL FIBER OPTIC DROP CABLE | 17 | INSTALL CABLE(S) IN EXISTING CONDUIT | 28 | INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET | 39 | INSTALL JUNCTION BOX | 48B | REMOVE EXISTING COMMUNICATIONS CABLE | 57 | MODIFY EXISTING ELECTRICAL SERVICE | 69 | REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 7 | INSTALL TRACER WIRE | 18 | INSTALL CABLE(S) IN NEW CONDUIT | 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A | INSTALL OVERSIZED JUNCTION BOX | 49 | BACK PULL EXISTING COMMUNICATIONS CABLE | 58 | INSTALL NEW ELECTRICAL SERVICE | 70 | REMOVE EXISTING CCTV CAMERA ASSEMBLY |
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| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | | |

NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.
- REMOVE EXISTING WOOD SIGNAL SPAN POLE AND REPLACE WITH NEW WOOD CCTV POLE IN CURRENT LOCATION AND INSTALL CCTV CAMERA AT 35'. SEE ITS-13. ATTACH SIGNAL SPANS, DOWN GUYS, RISERS AND NECESSARY SIGNAL EQUIPMENT TO CCTV POLE.

Plans Prepared For:

 250 N. Greenfield Place, Garner, NC 27529

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
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SEAL

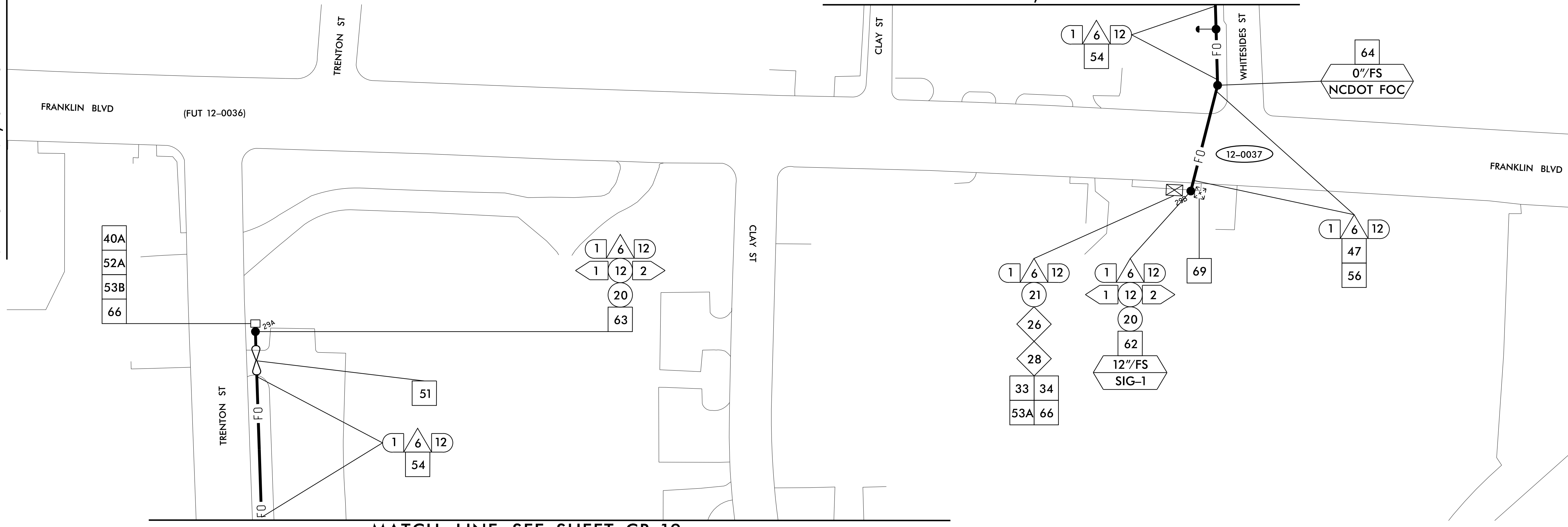
 I. Van OsdeLL
 3/18/2022
 DATE

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MATCH LINE, SEE SHEET CR-28

MATCH LINE, SEE SHEET CR-120

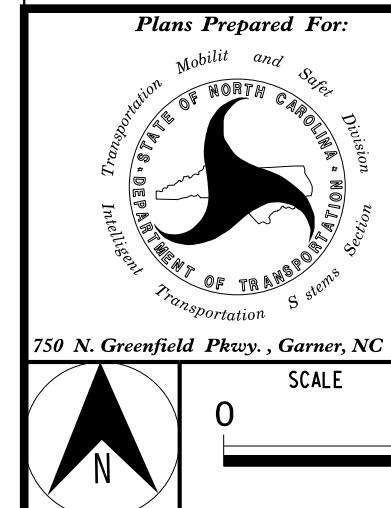
MATCH LINE, SEE SHEET CR-30



MATCH LINE, SEE SHEET CR-19

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|----|--|----|--|----|--|-----|--|-----|--|-----|--|----|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
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| | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | | |

NOTES:
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Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
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 NORTH CAROLINA PROFESSIONAL ENGINEER
 License # 27601
 I. Van Osdel

DocuSigned by:
 I. Van Osdel
 3/18/2022

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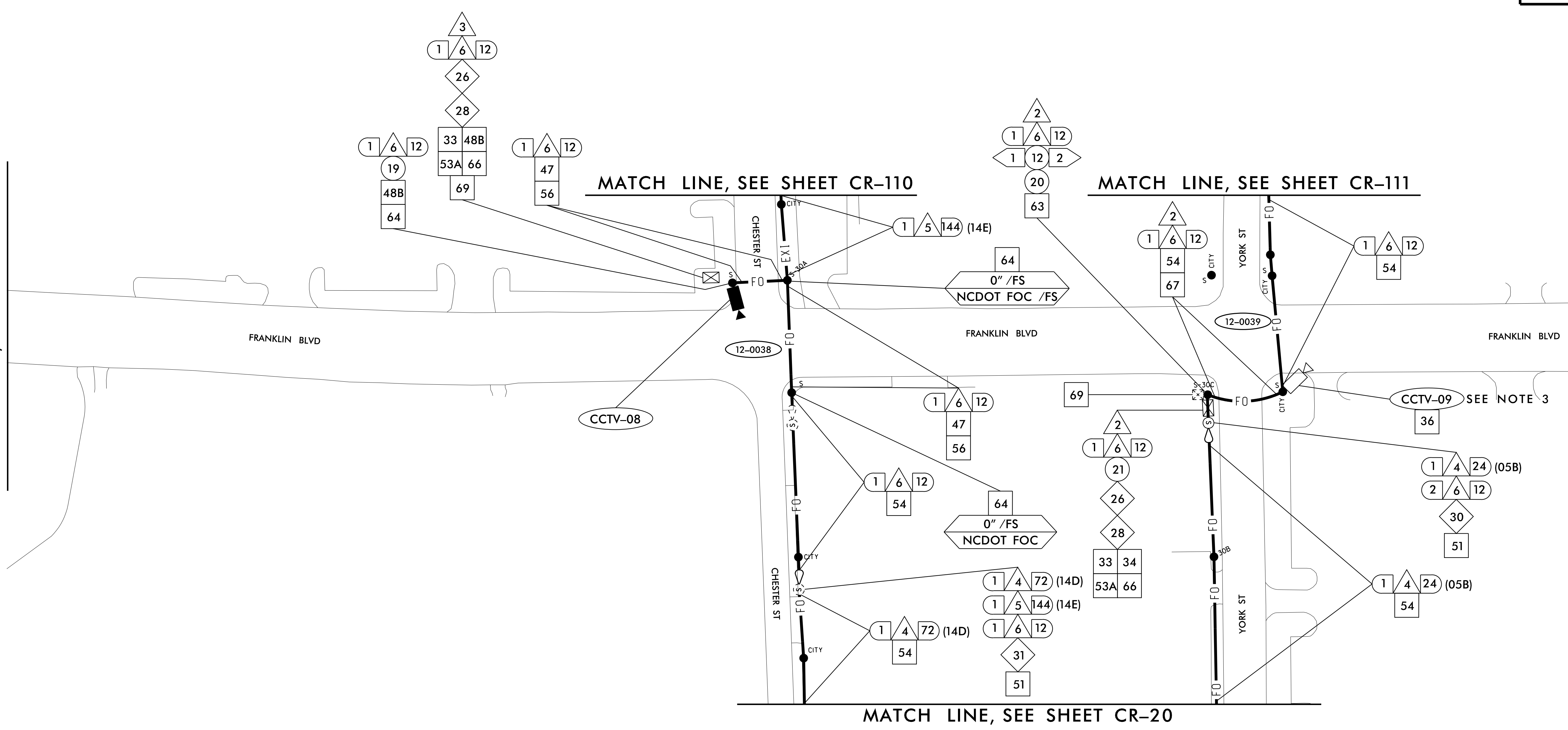
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MATCH LINE, SEE SHEET CR-29

MATCH LINE, SEE SHEET CR-110

MATCH LINE, SEE SHEET CR-111

MATCH LINE, SEE SHEET CR-31

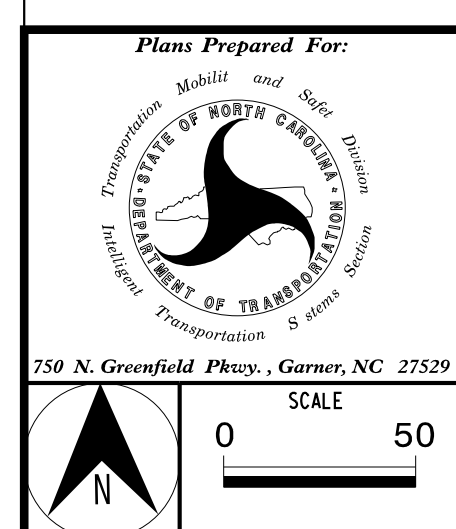


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|----|--|----|--|----|--|-----|--|-----|--|---------------------------|--|----------------------------------|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
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- INSTALL CCTV CAMERA 12" BELOW TOP OF POLE. SEE ITS-13.



Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

| REVISIONS | INIT. | DATE |
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SCALE: 0 50

DATE: 3/18/2022

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SEAL

North Carolina Professional Engineer Seal 028952

DocuSigned by: Roger Van Osdel

CADD File name: