

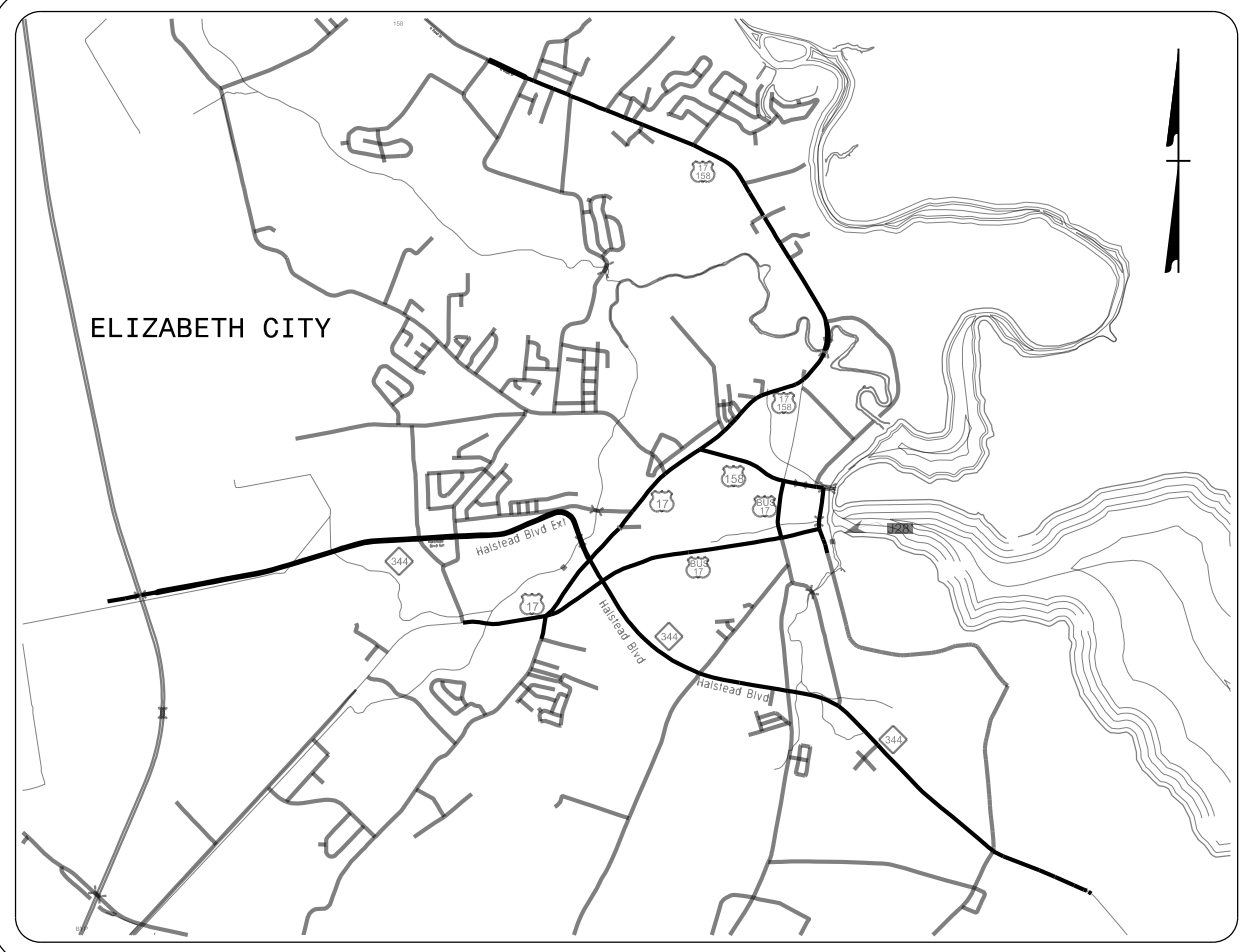
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TIP PROJECT: U-5942

CONTRACT: C204154

See Sheet ITS-1.01 For Index of Sheets



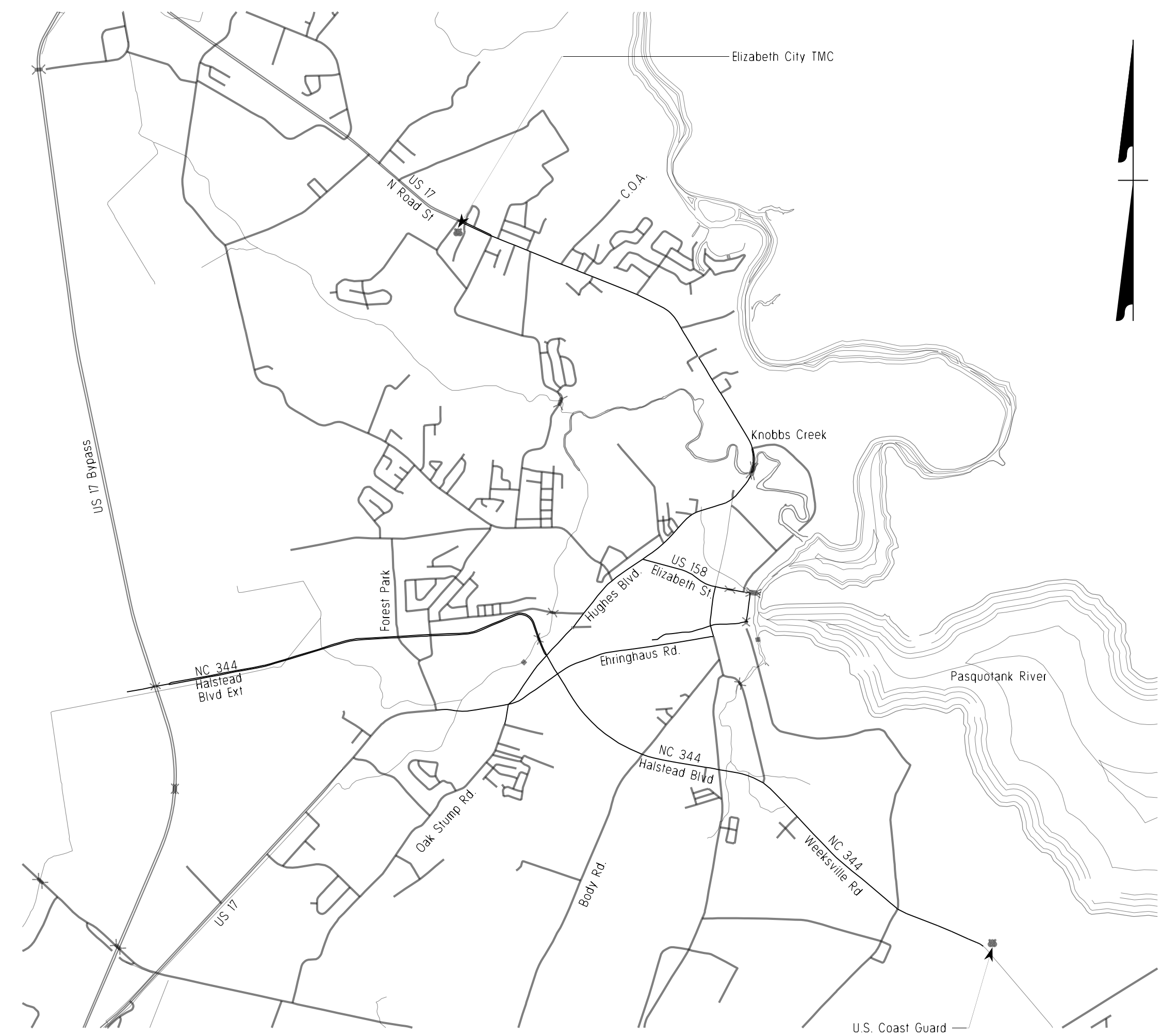
VICINITY MAP

**Volume I of III
 Communications & CCTV
 Field Infrastructure,
 Building Modifications
 and Special Details**

NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION

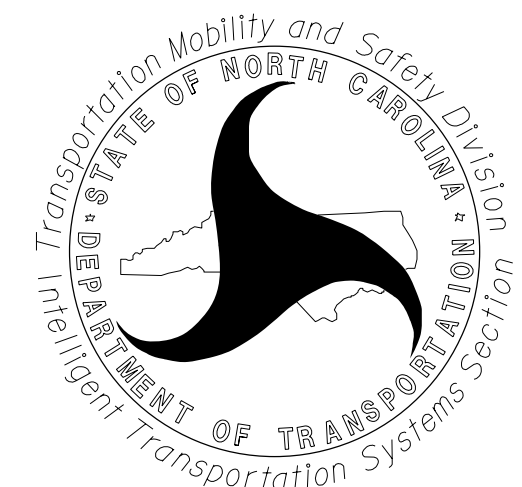
PLANS FOR PROPOSED IMPROVEMENTS
ELIZABETH CITY
 COMPUTERIZED TRAFFIC SIGNAL SYSTEM

REPLACEMENT OF VARIOUS STANDALONE CLOSED-LOOP TRAFFIC SIGNAL SYSTEMS WITH A NEW COMPUTERIZED TRAFFIC SIGNAL SYSTEM.
 RELATED WORK INCLUDES:
 UPGRADING LOCAL INTERSECTION CONTROLLERS, CABINETS, AND SYSTEM DETECTORS WITH LIMITED SIGNAL WIRING AND SIGNAL HEAD UPGRADES WHEN NECESSARY; UPGRADE AND EXPANSION OF CCTV MONITORING NETWORK; INSTALLING CENTRAL EQUIPMENT AND CENTRAL SOFTWARE; AND INSTALLATION OF AN ETHERNET COMMUNICATIONS NETWORK COMPRISED OF FIBER-OPTIC CABLE WITH ALL RELATED EQUIPMENT.



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5942	ITS-1.00	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45861.1.1		PE	
45861.3.1	STBG-0111(25)	CONST	

Prepared for the Offices of:



750 N. Greenfield Pkwy., Garner, NC 27529

NCDOT CONTACTS:
 TRANSPORTATION MOBILITY & SAFETY DIVISION
 INTELLIGENT TRANSPORTATION SYSTEMS SECTION

JASON GALLOWAY, P.E. - STATE SIGNALS ENGINEER
 NEIL AVERY - SIGNAL COMMUNICATION PROJECT ENGINEER

Plans Prepared By:



LM MOON, P.E. - SENIOR PROJECT ENGINEER
 AJ DAVIS, P.E. - PROJECT DESIGN ENGINEER
 RD LAWTON, EIT - PROJECT ENGINEER
 DJ WHITE - PROJECT ENGINEER



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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - CONTRACT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
848.01	CONCRETE SIDEWALK
848.05	CURB RAMP – PROPOSED CURB AND GUTTER
848.06	CURB RAMP – EXISTING CURB ANBD GUTTER
1101.01	WORK ZONE ADVANCED WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES – TYPE III
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED ATTENUATOR – DELINEATION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS – LINES TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS – DIVIDED AND UNDIVIDED ROADWAYS
1205.04	PAVEMENT MARKINGS – INTERSECTIONS
1205.05	PAVEMENT MARKINGS – TURN LANES
1205.07	PAVEMENT MARKINGS – PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS – SYMBOLS AND WORD MESSAGES
1700.01	ELECTRICAL SERVICE OPTIONS
1700.02	ELECTRICAL SERVICE GROUNDING
1705.01	SIGNAL HEADS – VEHICULAR SIGNAL HEADS
1705.02	SIGNAL HEADS – PEDESTRIAN ASSEMBLIES
1705.03	SIGNAL HEADS – WIRE COLOR CONVENTIONS
1705.04	SIGNAL HEADS – PEDESTRIAN PUSHBUTTON LOCATION
1715.01	UNDERGROUND CONDUIT – TRENCHING
1716.01	JUNCTION BOXES
1721.01	GUY ASSEMBLIES
1725.01	INDUCTIVE DETECTION LOOPS
1730.01	FIBER-OPTIC CABLE – SPARE CABLE STORAGE
1743.02	PEDESTALS – NORMAL DUTY TYPE II
1743.04	PEDESTALS – FOUNDATIONS
1751.01	CONTROLLERS AND CABINETS – CABINET COMPONENT LAYOUT
1751.02	CONTROLLERS AND CABINETS – POWER, GROUND AND AUXILIARY

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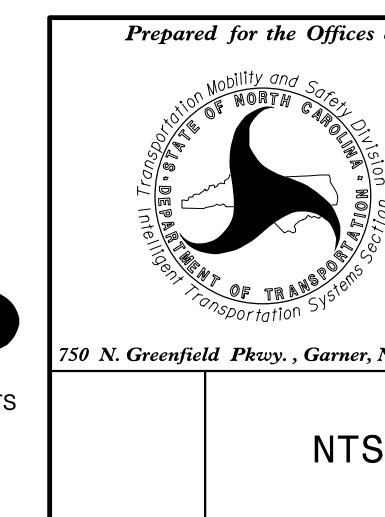
ITS-1.00.....	TITLE SHEET – COMMUNICATIONS & CCTV FIELD INFRASTRUCTURE, BUILDING MODIFICATIONS AND SPECIAL DETAILS
ITS-1.01.....	INDEX OF SHEETS AND ROADWAY STANDARD DRAWINGS
ITS-2.00.....	CENTRAL BLOCK DIAGRAM
ITS-3.00 – ITS-3.01.....	SYSTEM DETECTORS AND CONTROL ZONE SCHEMATIC
ITS-4.00.....	CCTV CAMERA INSTALLATION, FOR WOOD SIGNAL POLES
ITS-4.01.....	CCTV CAMERA INSTALLATION, FOR METAL SIGNAL POLES
ITS-4.02.....	RISER DETAIL
ITS-4.03.....	FOUNDATION MODIFICATION DETAIL
ITS-4.04.....	GROUND MOUNTED ELECTRICAL SERVICE DETAIL
ITS-4.05.....	AERIAL FIBER-OPTIC CABLE STORAGE & SPLICE ENCLOSURES
ITS-4.06.....	BASE-MOUNTED CABINET FOUNDATION DETAILS
ITS-4.07.....	REVISED ROADWAY STANDARD DRAWINGS 1700D01 & 1720D01
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CRP-001E.....	CCTV INSTALLATION SUMMARY
CRP-002A.....	CABLE ROUTING PLANS KEY SHEET
CRP-002B.....	LEGEND/GENERAL NOTES/ABBREVIATIONS
CRP-002C.....	CONSTRUCTION NOTES
CRP-003 – CRP-069.....	CABLE ROUTING PLANS
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FS-2.00.....	COMMS. CABLE SCHEMATIC
FS-2.01 – FS-2.04.....	FIBER-OPTIC RING SCHEMATICS
FS-3.00.....	FIBER-OPTIC CABLE USAGE SUMMARY
FS-3.01.....	FIBER-OPTIC SPLICE DETAILS KEY SHEET
FS-4.00 – FS-4.22.....	FIBER-OPTIC SPLICING DETAILS

Volume III

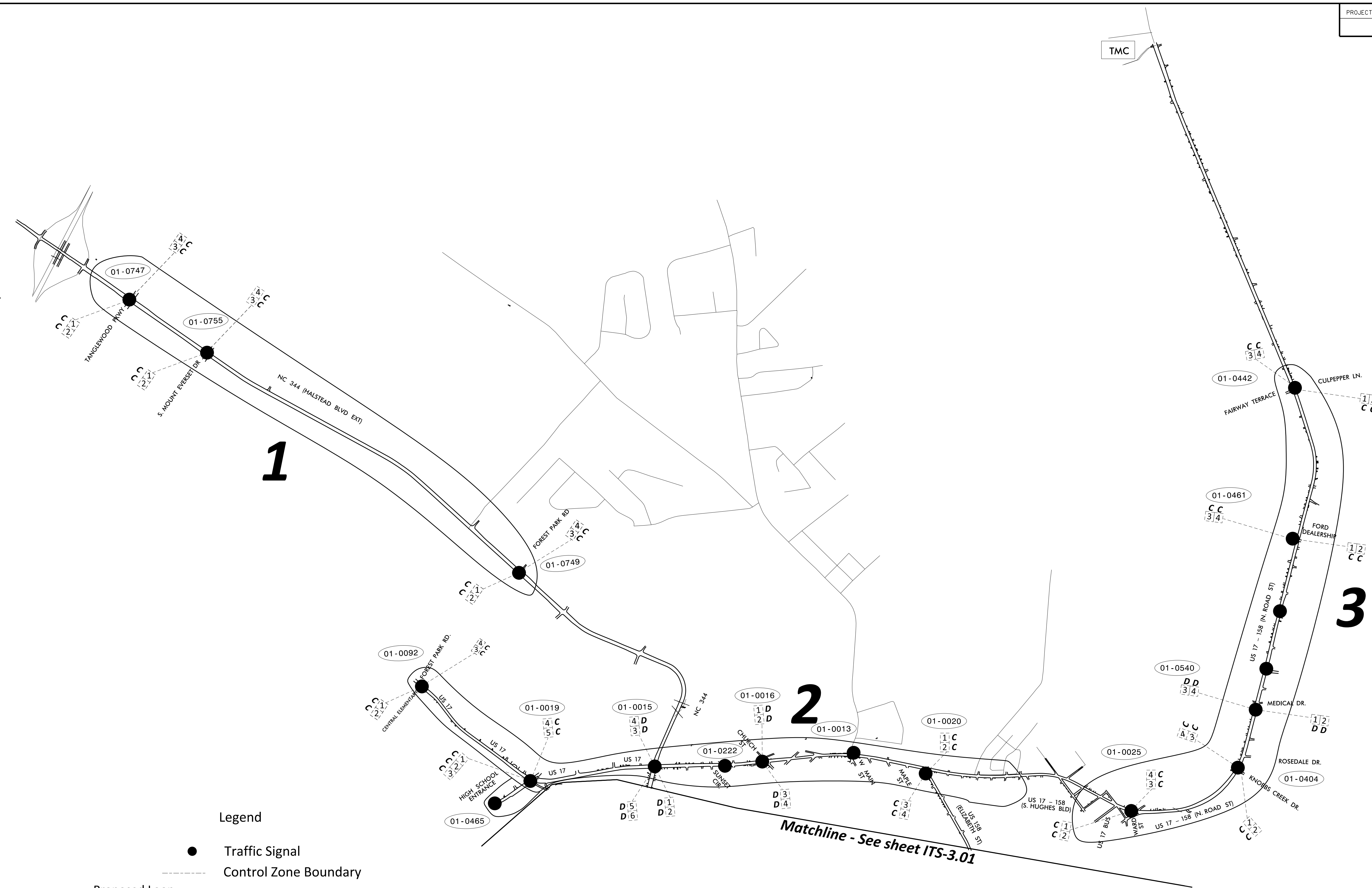
SIG. 1A.....	TITLE SHEET (TRAFFIC SIGNAL DESIGNS)
SIG. 1B.....	INDEX OF SHEETS AND ROADWAY STANDARD DRAWINGS
SIG. 1C.....	SIGNAL PLANS INDEX SHEET
SIG. 1D – 1I.....	SUMMARY OF WORK BY INTERSECTION
SIG. 1.0 – 44.3.....	TRAFFIC SIGNAL PLANS
SIG. M1 – M8.....	STANDARD DRAWING FOR METAL POLES



Elizabeth City Signal System Index of Sheets and Roadway Standard Drawings	
Division 1 Pasquotank County Elizabeth City	
PLAN DATE: April 2018	REVIEWED BY: L Moon
PREPARED BY: R Lawton	REVIEWED BY:
REVISIONS	INIT. DATE
NTS	



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Legend

- Traffic Signal
- Control Zone Boundary
- Proposed Loop
 - 1 C - "Combo" Loop
 - 1 D - Dedicated Loop
- Existing Loop
 - 1
- System Detector I.D.
- Control Zone Identification Number **01**
- NCDOT Signal Identification Number 01-XXXX

Matchline - See sheet ITS-3.01

PLANS PREPARED BY:

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ENGINEERS · PLANNERS · SCIENTISTS

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NC License No. C-2213 (919) 650-1038

Prepared for the Offices of:

Elizabeth City Signal System
System Detectors and
Control Zone Schematic

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

REVISIONS	INIT.	DATE

SCALE: N.T.S.

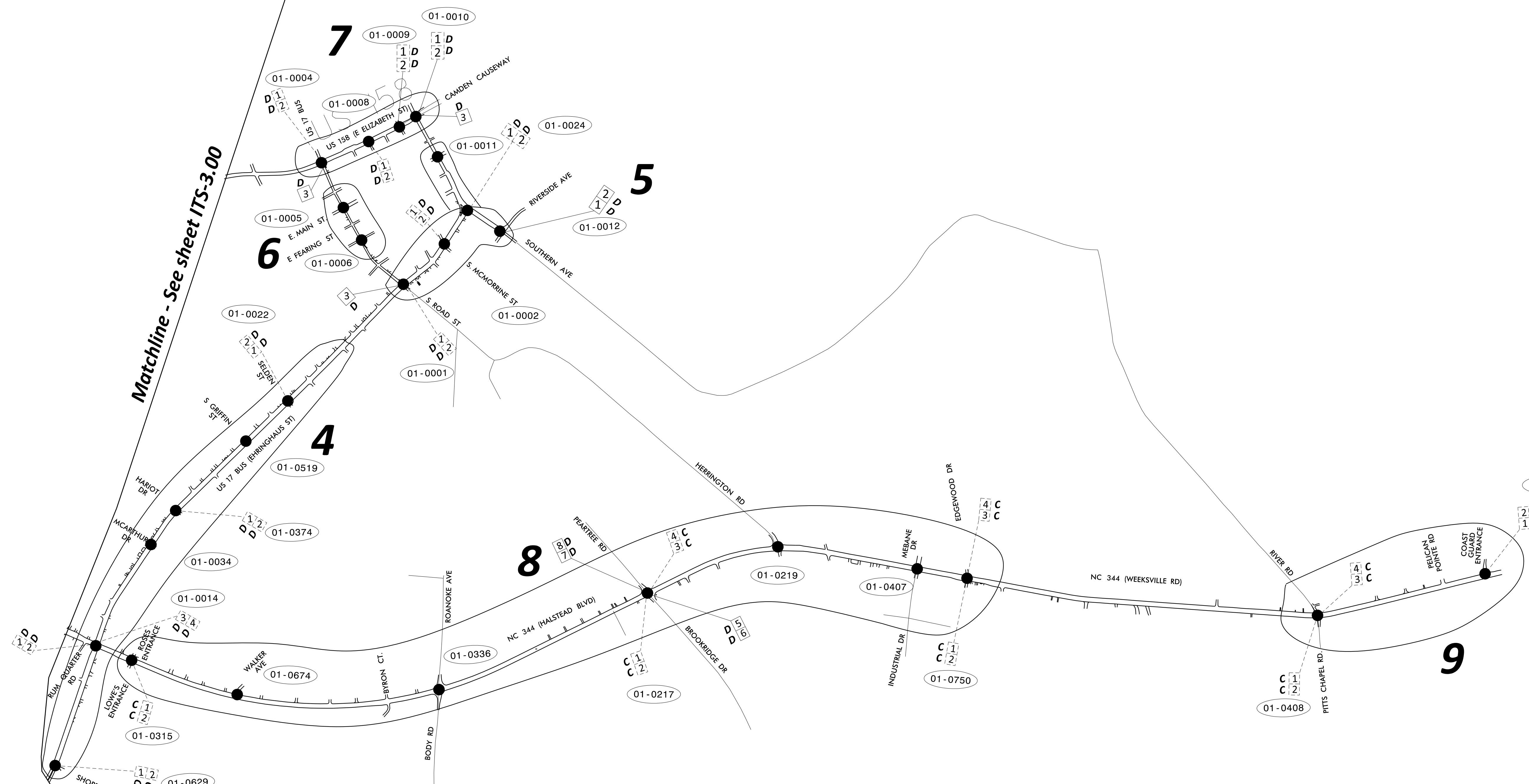
750 N. Greenfield Pkwy., Garner, NC 27529

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
LISA M. MOON
022516

DocuSign
Lisa M. Moon 9/20/2018
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Legend

- Traffic Signal
- - - Control Zone Boundary
- Proposed Loop
 - 1 C - "Combo" Loop
 - 1 D - Dedicated Loop
- Existing Loop
 - 1
- System Detector I.D.
- Control Zone Identification Number **01**
- 01-XXXX NCDOT Signal Identification Number

Plans Prepared By:

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 DRMP, Inc.
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Prepared for the Offices of:

Elizabeth City Signal System System Detectors and Control Zone Schematic

Division 1 Pasquotank County Elizabeth City
 PLAN DATE: April 2018 REVIEWED BY: LM Moon
 PREPARED BY: RD Lawton REVIEWED BY:

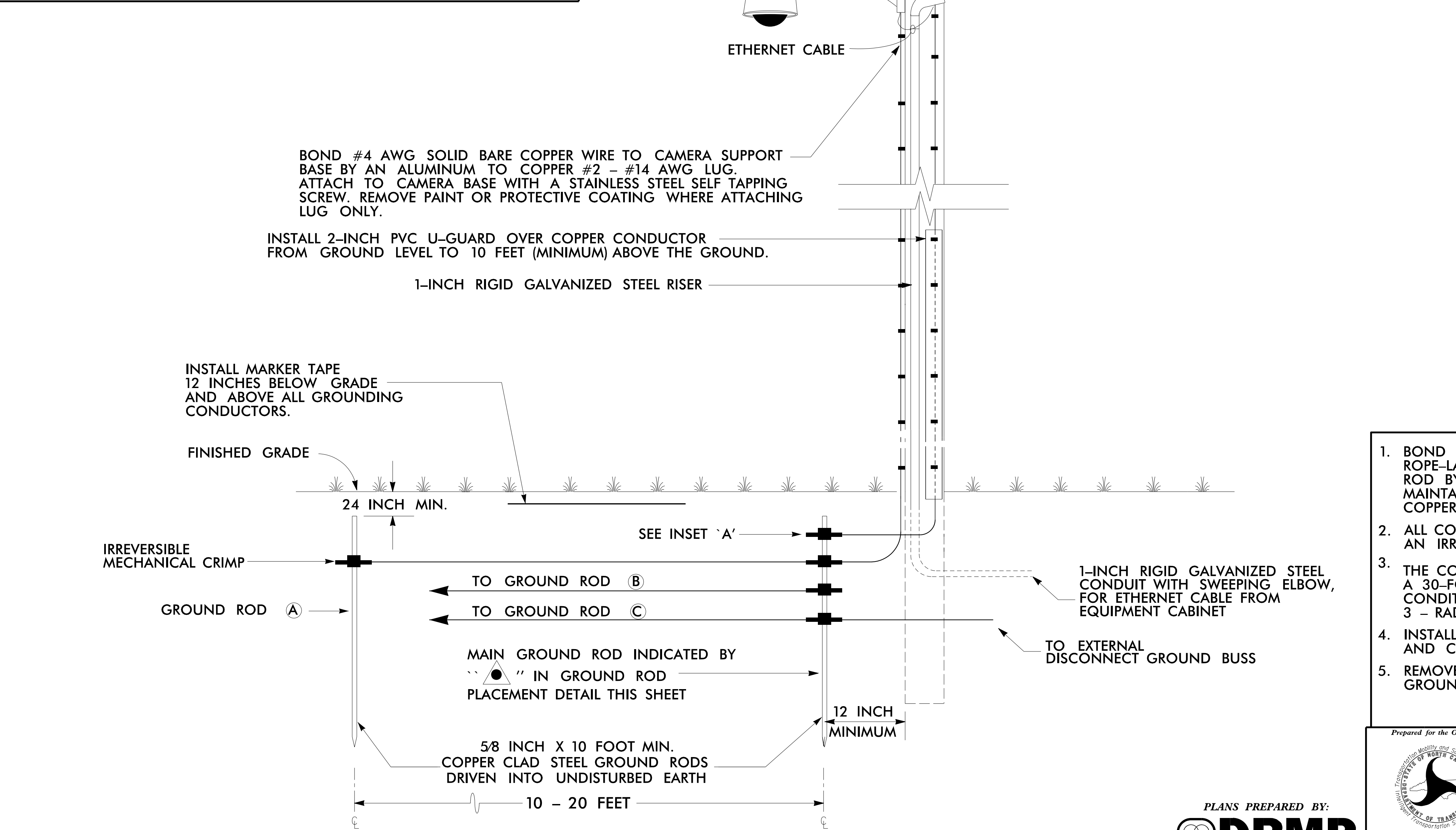
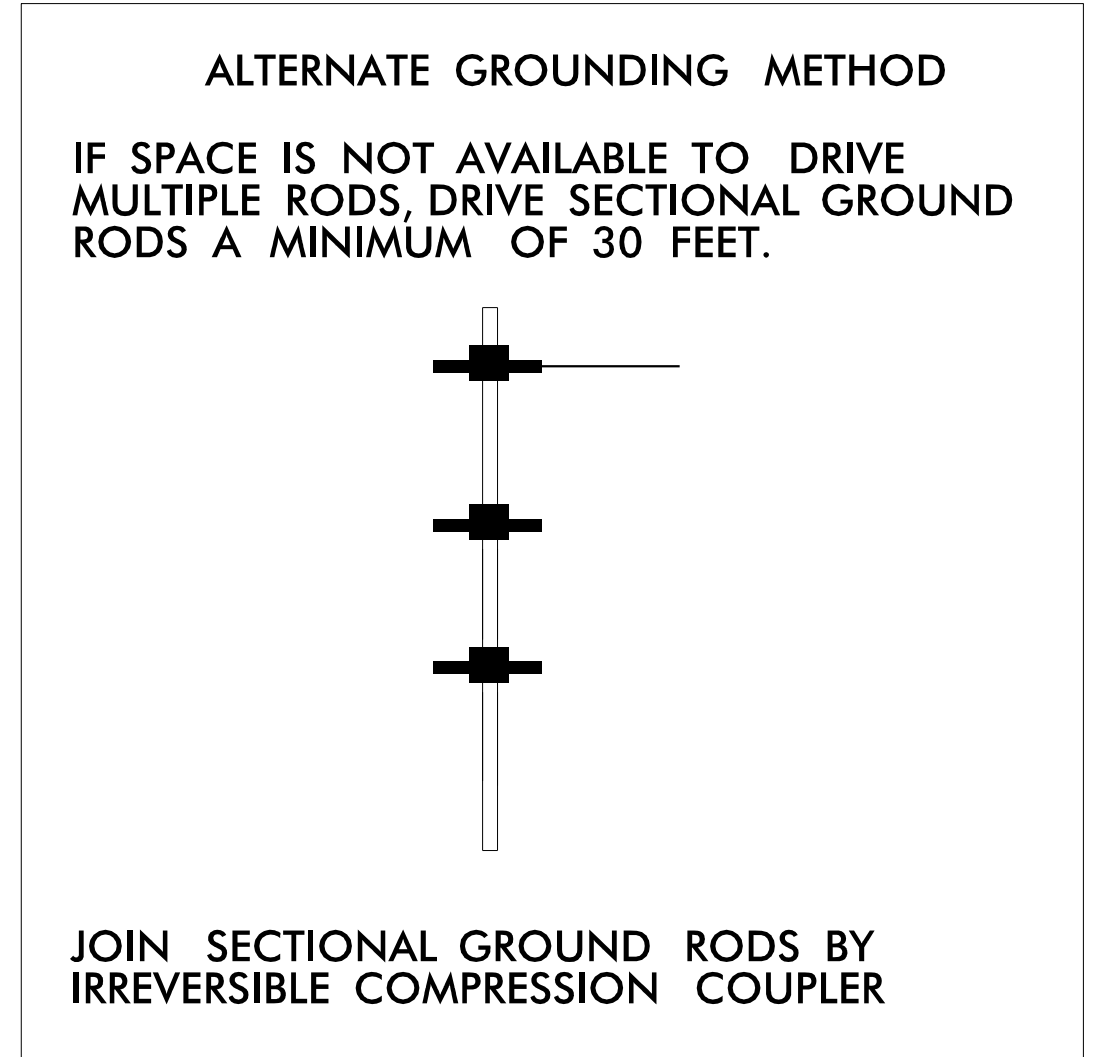
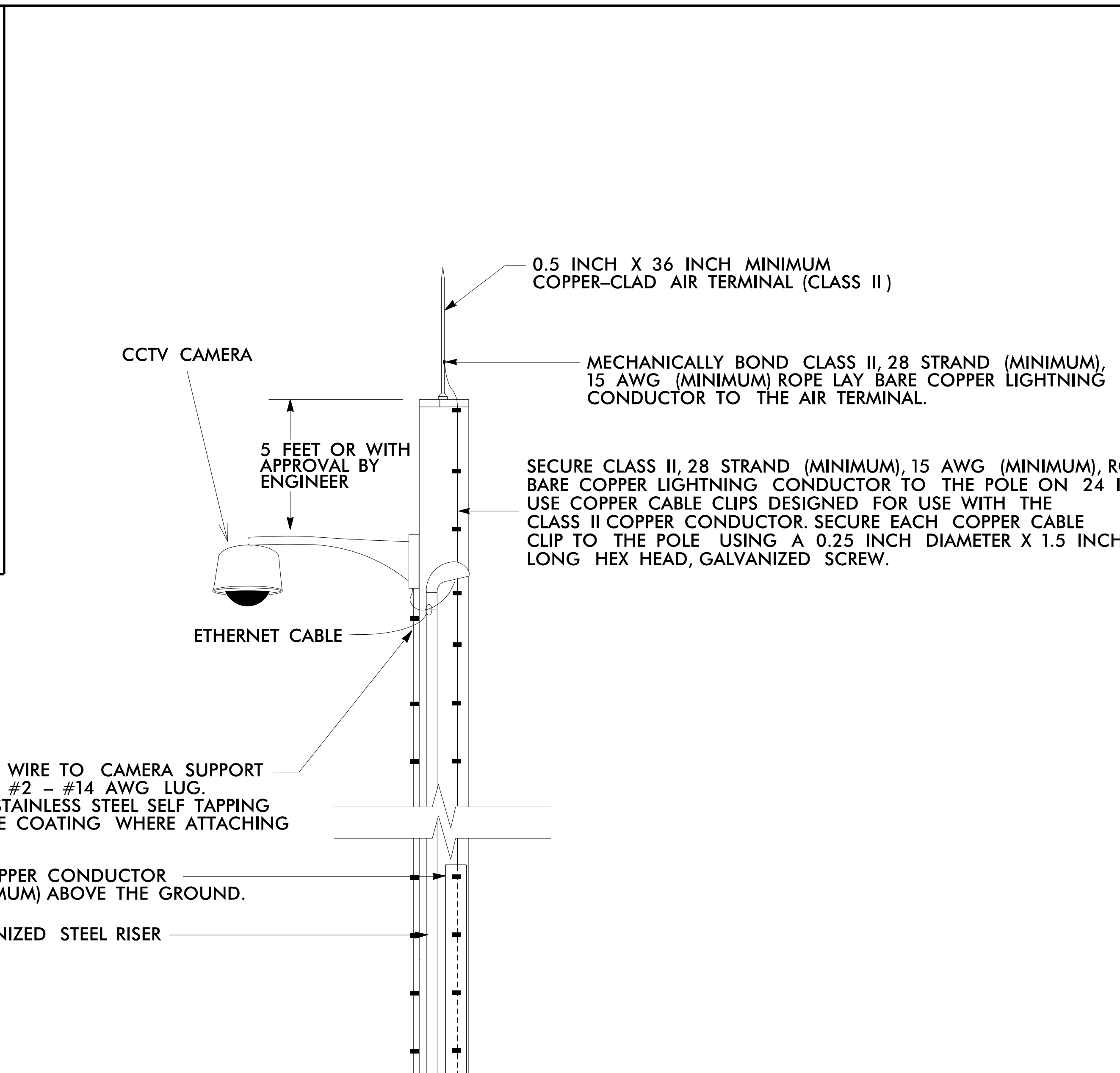
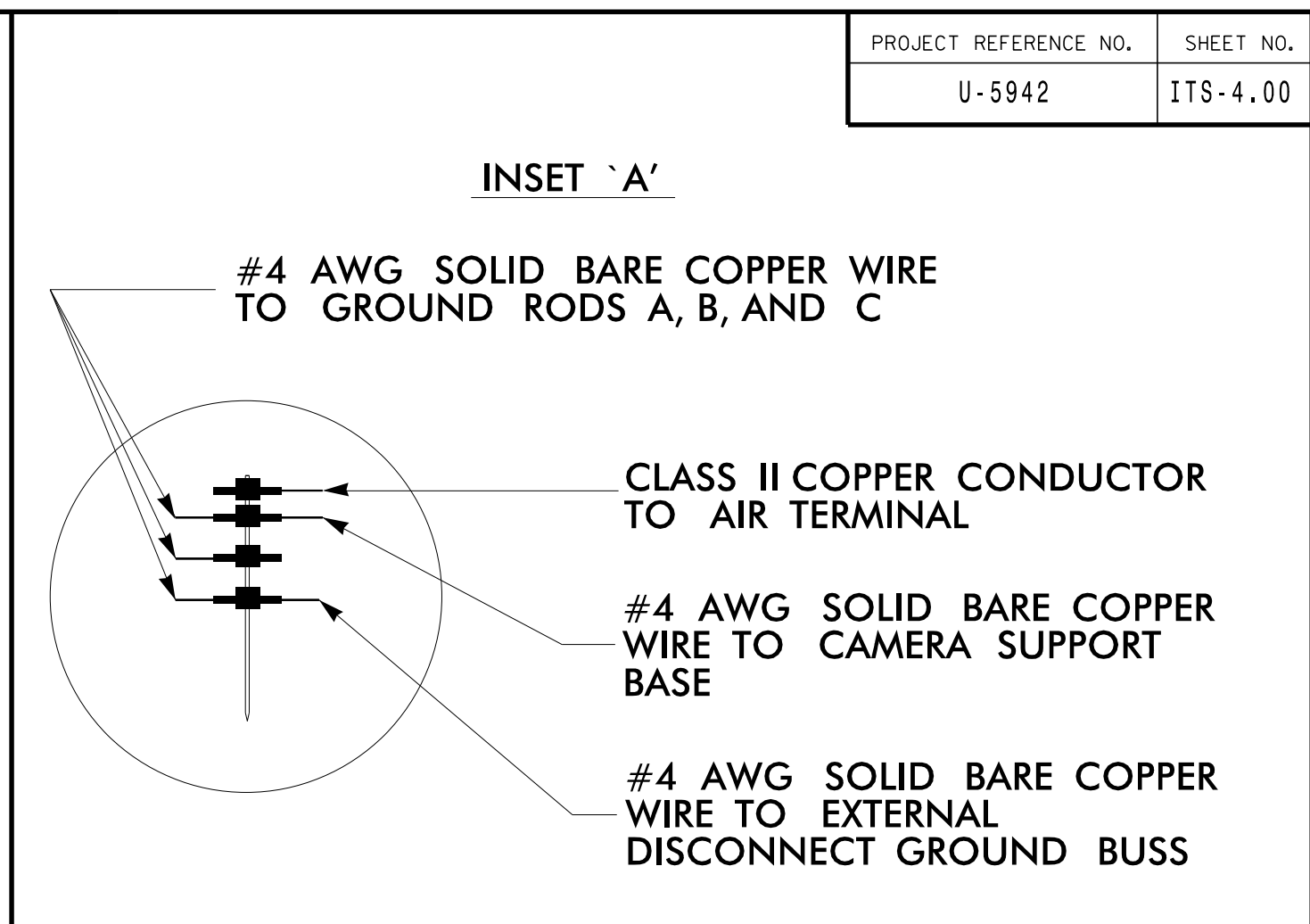
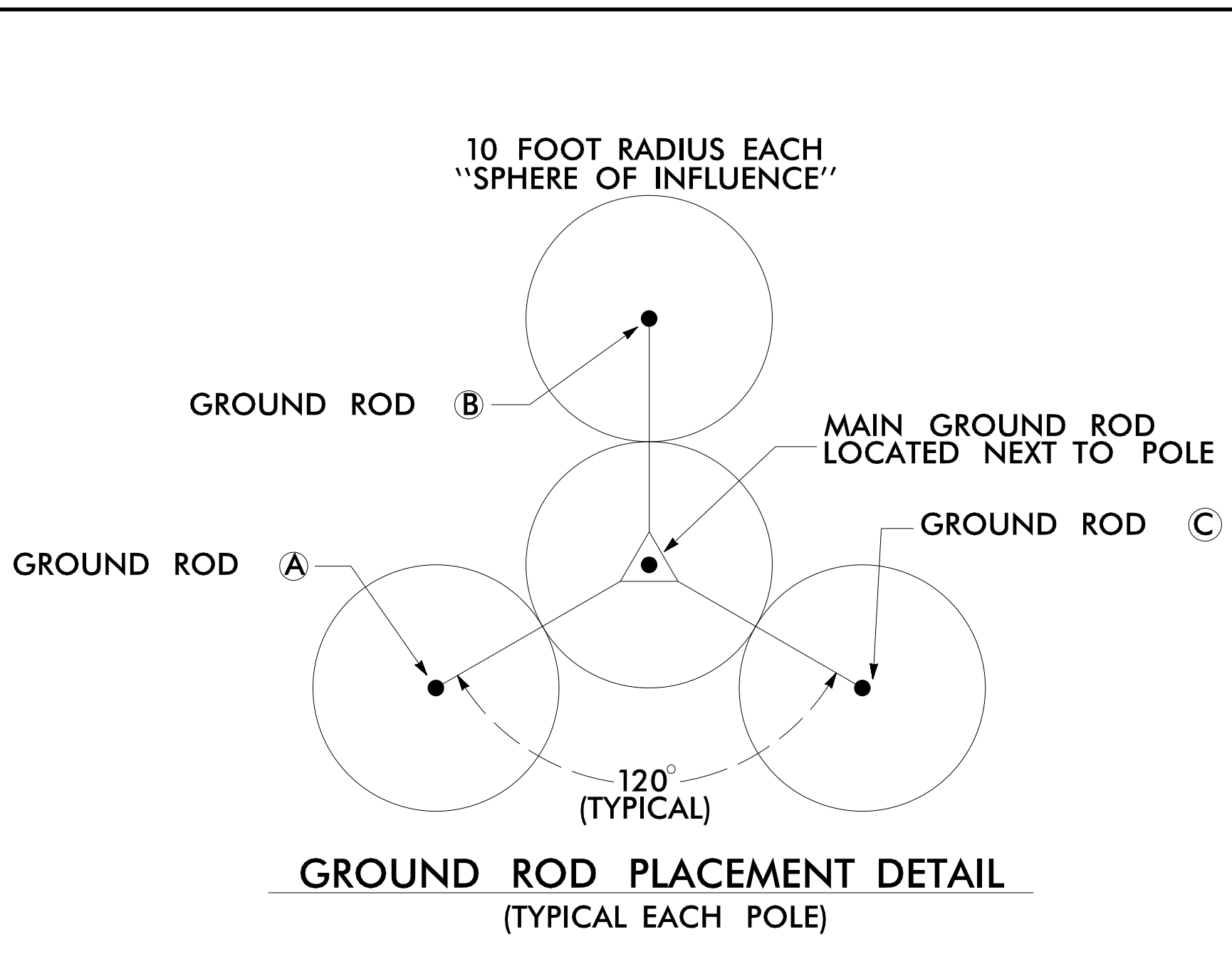
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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 LISA M. MOON
 022516
 9/20/2018
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NOTES

1. BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE-LAY BARE COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN IRREVERSIBLE MECHANICAL CRIMP. MAINTAIN MAXIMUM HORIZONTAL SEPARATION BETWEEN COPPER CONDUCTOR AND RISER.
2. ALL CONNECTIONS TO GROUND RODS SHOULD BE MADE WITH AN IRREVERSIBLE MECHANICAL CRIMP METHOD.
3. THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30-FOOT SECTIONAL GROUND ROD FOR INSTANCES WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 - RADIAL GROUND RODS.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
5. REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUSS AND NEUTRAL BUSS.

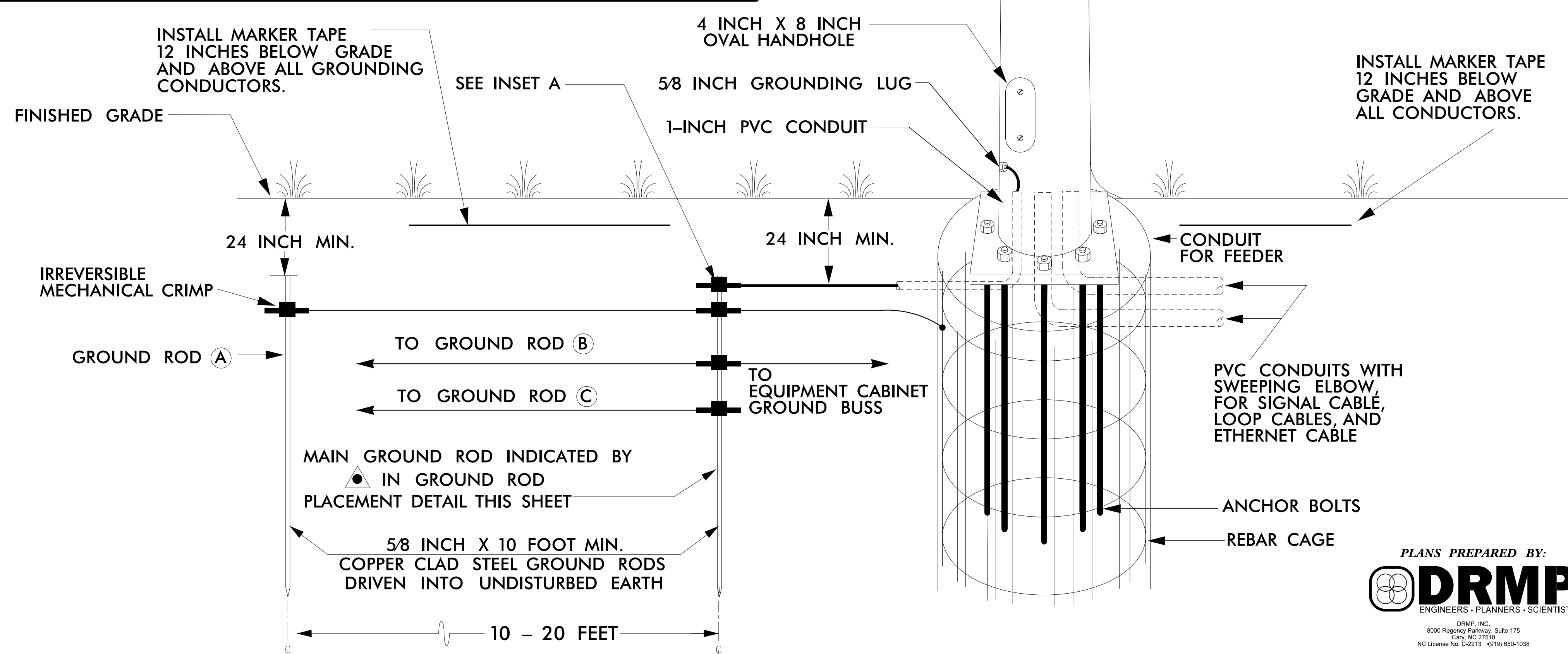
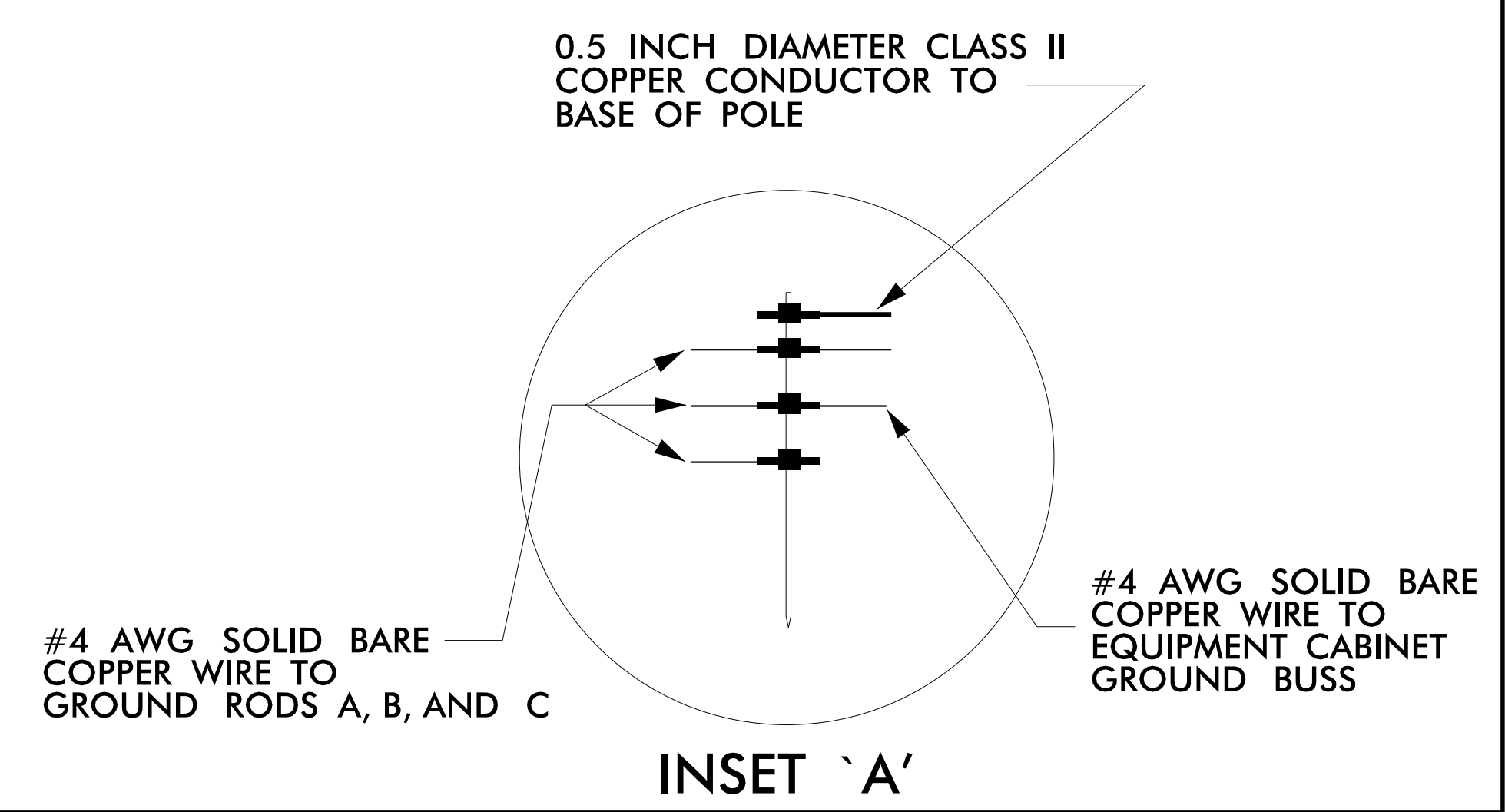
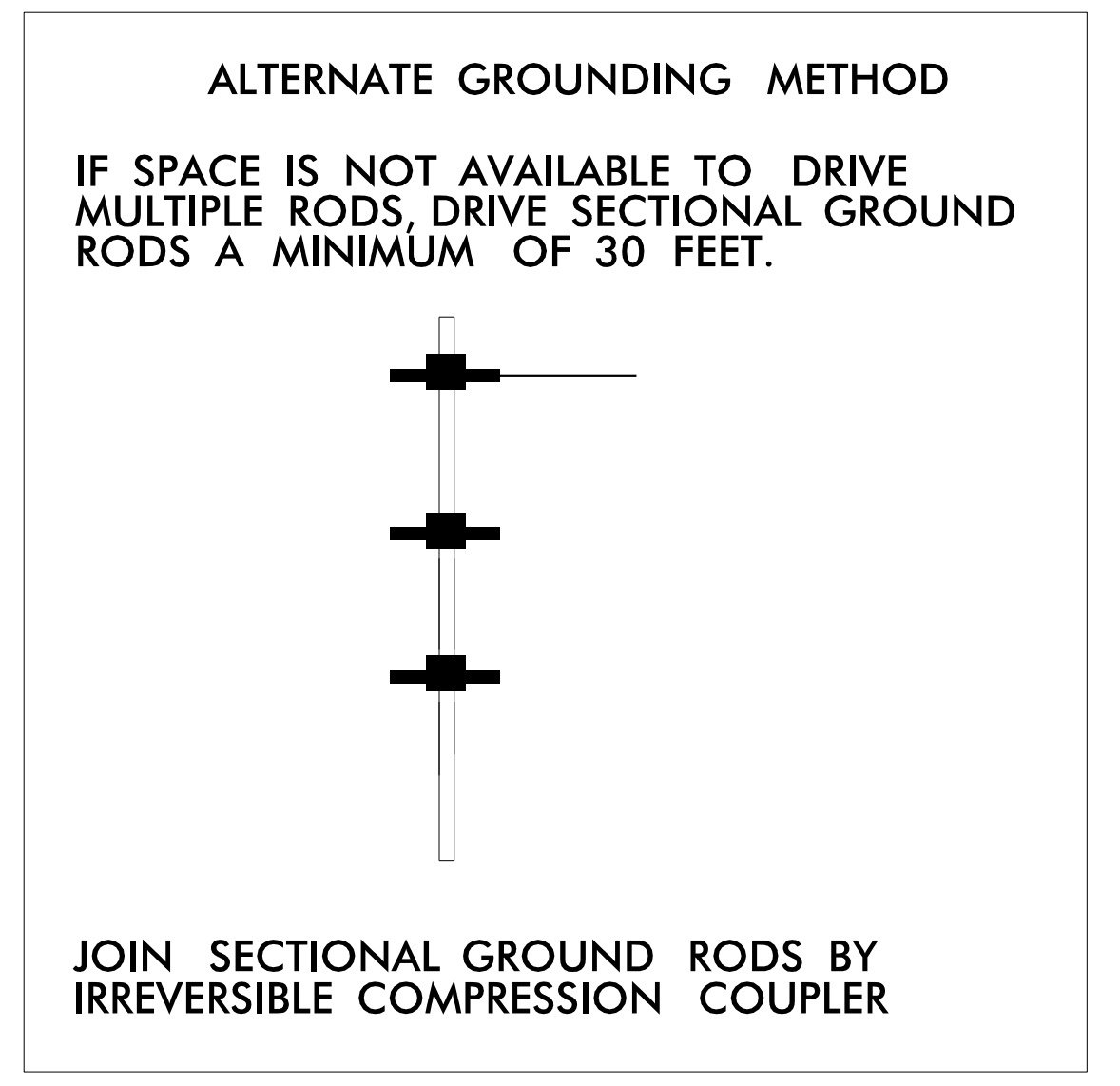
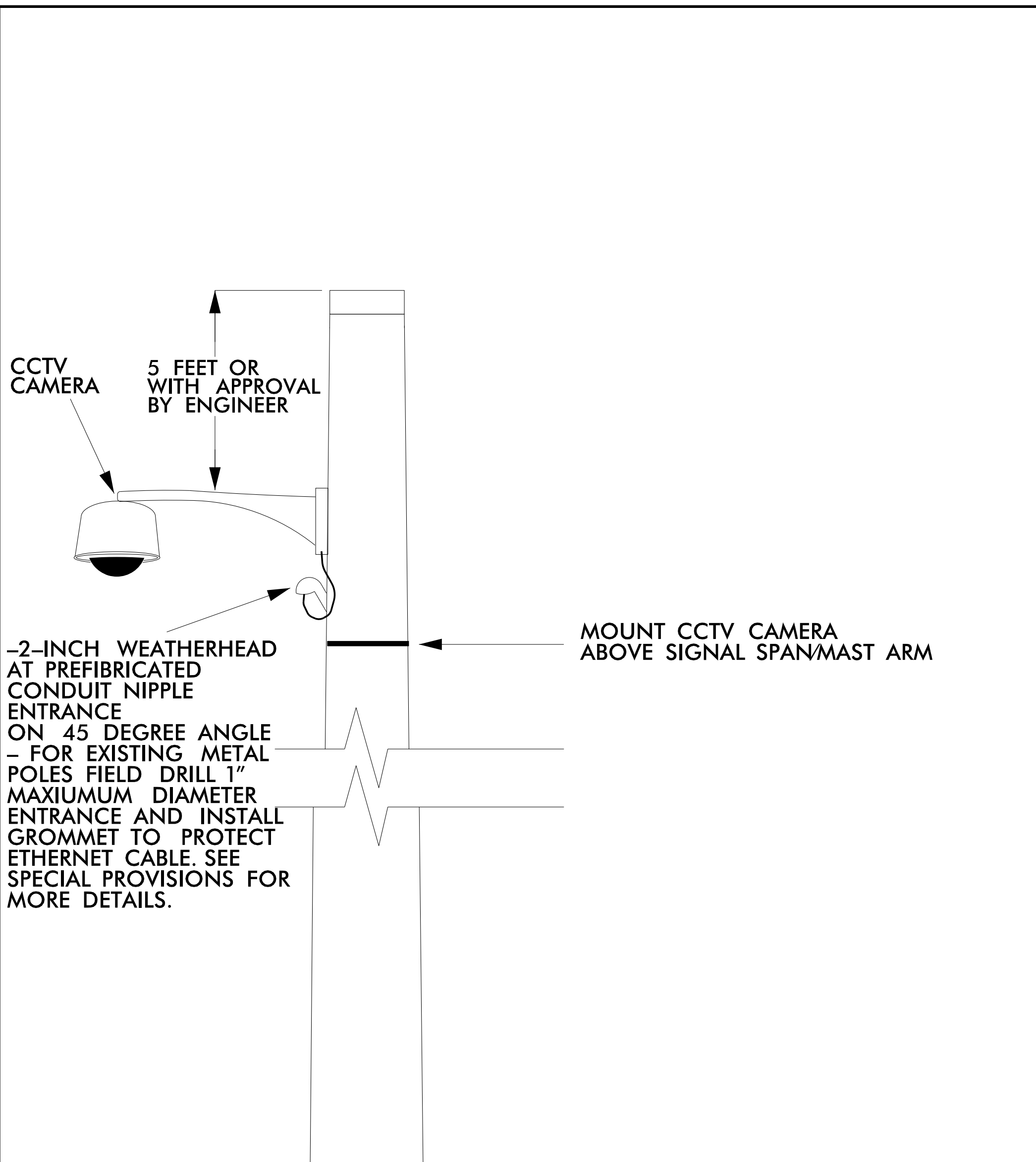
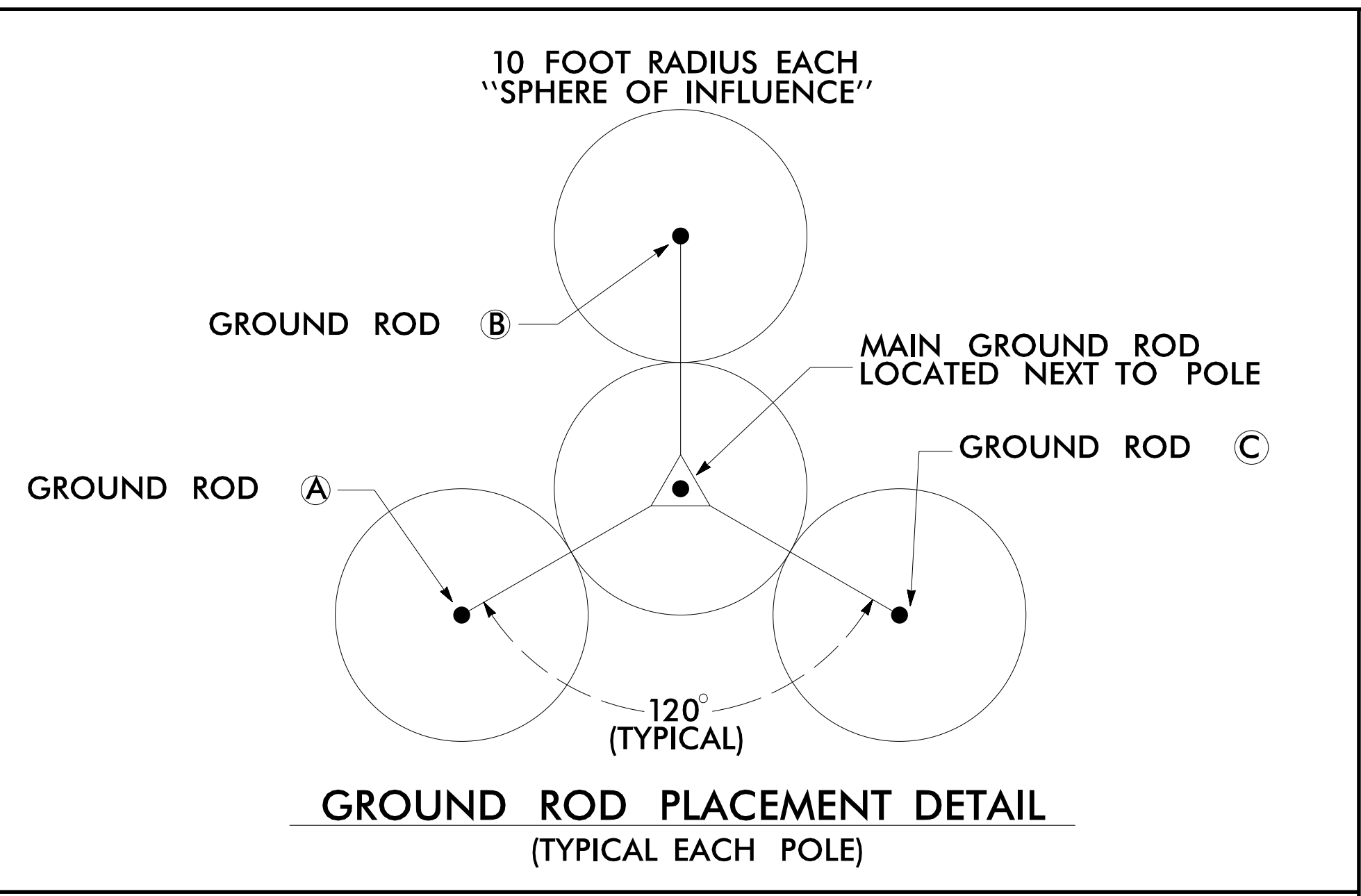
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PLANS PREPARED BY:

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Cary, NC 27518
NC License No. C-2213 4919/850-1038

Prepared for the Offices of:		Elizabeth City Signal System CCTV Camera Installation For Wood Signal Pole	
Division 1 Pasquotank County Elizabeth City		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022516 LISA M. MOON	
PLAN DATE: April 2018	REVIEWED BY: LM Moon	8/22/2018	
PREPARED BY: RD Lawton	REVIEWED BY:	DATE	
SCALE: N.T.S.	REVISIONS:	INIT.	DATE
CADD Filename:		DATE	



NOTES

1. BOND 0.5 INCH DIAMETER, 28 STRAND (MINIMUM) CLASS II COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN IRREVERSIBLE MECHANICAL CRIMP METHOD.
2. ALL CONNECTIONS TO GROUND RODS SHOULD BE MADE WITH AN IRREVERSIBLE MECHANICAL CRIMP METHOD.
3. BOND #4 AWG SOLID BARE COPPER WIRE TO REBAR CAGE AND THE MAIN GROUND ROD BY AN IRREVERSIBLE MECHANICAL CRIMP.
4. ENSURE CAMERA HOUSING, CAMERA, AND PAN -TILT UNIT ARE BONDED TO POLE.
5. REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUSS AND NEUTRAL BUSS.
6. THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30-FOOT SECTIONAL GROUND ROD WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 - RADIAL GROUND RODS.
7. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.

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Cary, NC 27518
NC License No. C-2213 4919 650-1038

Prepared for the Offices of:

Elizabeth City Signal System
CCTV Camera Installation
For Metal Signal Pole

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

SCALE: N.T.S.

REVISIONS: INIT. DATE

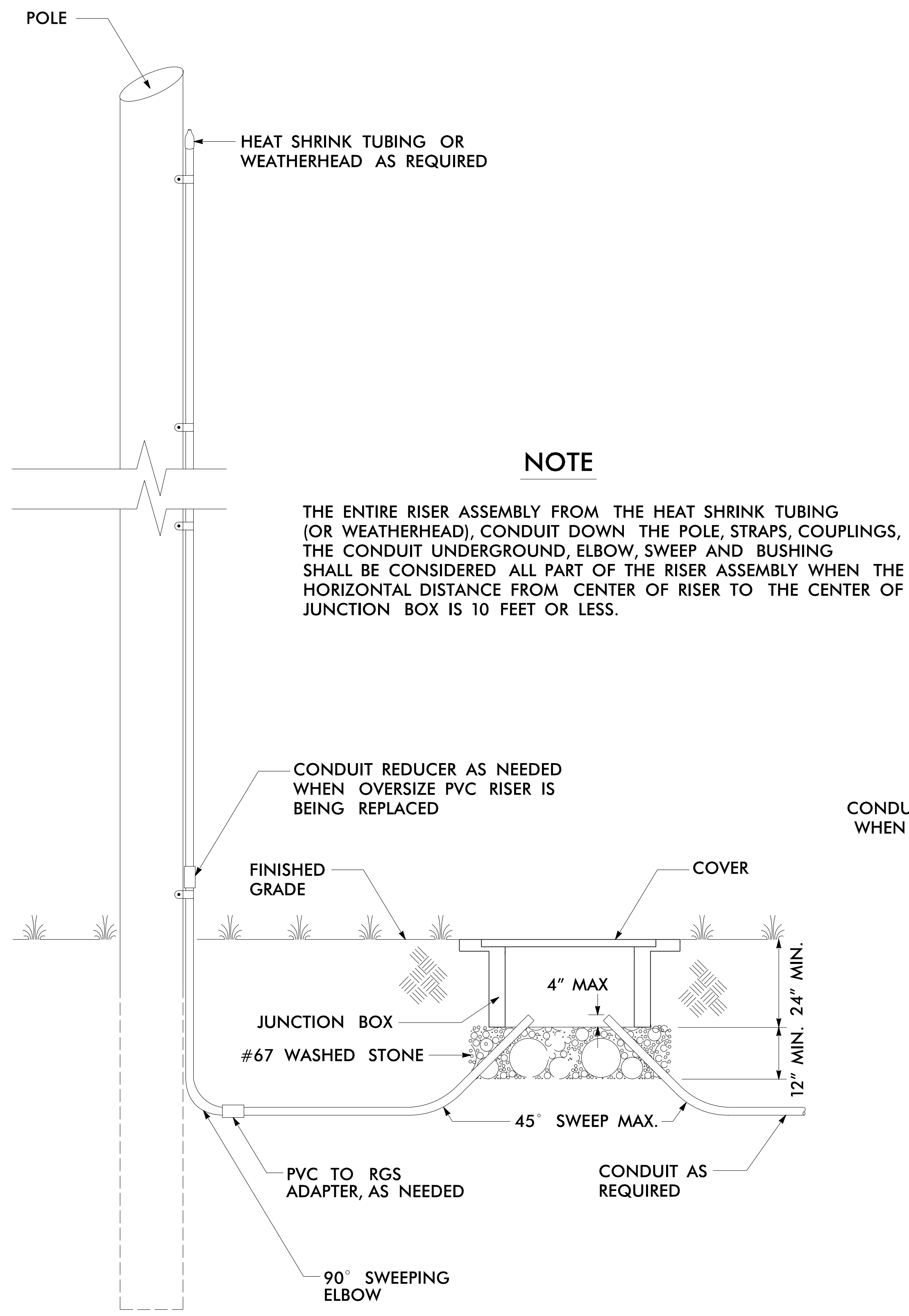
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Lisa M. Moon 8/22/2018

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PROFESSIONAL
ENGINEER
LISA M. MOON
022516

TYPICAL RISER DETAILS

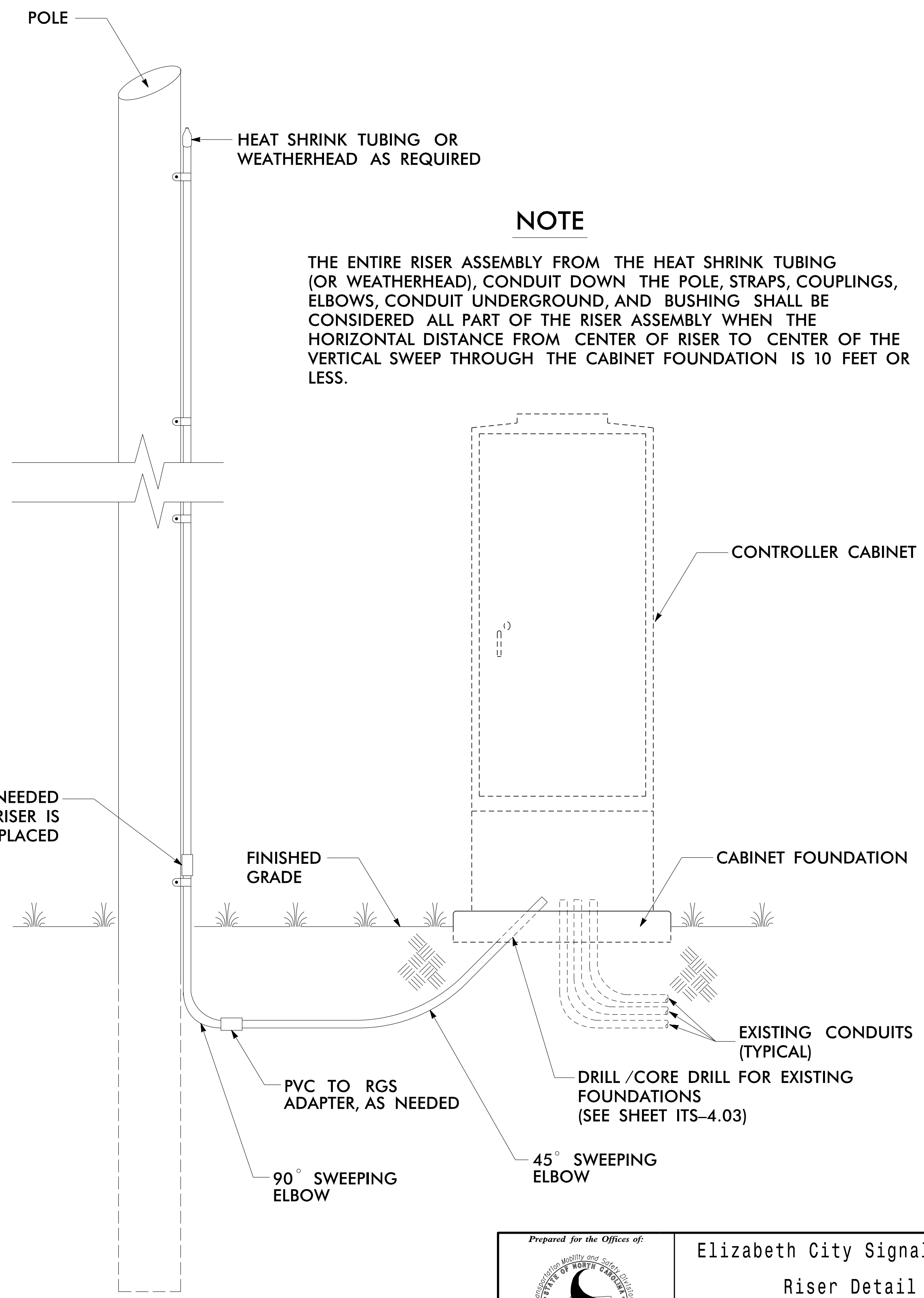
RISER TO JUNCTION BOX



NOTE

THE ENTIRE RISER ASSEMBLY FROM THE HEAT SHRINK TUBING (OR WEATHERHEAD), CONDUIT DOWN THE POLE, STRAPS, COUPLINGS, THE CONDUIT UNDERGROUND, ELBOW, SWEEP AND BUSHING SHALL BE CONSIDERED ALL PART OF THE RISER ASSEMBLY WHEN THE HORIZONTAL DISTANCE FROM CENTER OF RISER TO THE CENTER OF JUNCTION BOX IS 10 FEET OR LESS.

RISER TO CABINET FOUNDATION



NOTE

THE ENTIRE RISER ASSEMBLY FROM THE HEAT SHRINK TUBING (OR WEATHERHEAD), CONDUIT DOWN THE POLE, STRAPS, COUPLINGS, ELBOWS, CONDUIT UNDERGROUND, AND BUSHING SHALL BE CONSIDERED ALL PART OF THE RISER ASSEMBLY WHEN THE HORIZONTAL DISTANCE FROM CENTER OF RISER TO CENTER OF THE VERTICAL SWEEP THROUGH THE CABINET FOUNDATION IS 10 FEET OR LESS.

PLANS PREPARED BY:

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NC License No. C-2213 4919 650-1038

Prepared for the Offices of:		Elizabeth City Signal System	
Riser Detail		Division 1 Pasquotank County Elizabeth City	
PLAN DATE:	APRIL 2018	REVIEWED BY:	LM Moon
PREPARED BY:	RD Lawton	REVIEWED BY:	LM Moon
SCALE:	N.T.S.		
REVISIONS	INIT.	DATE	

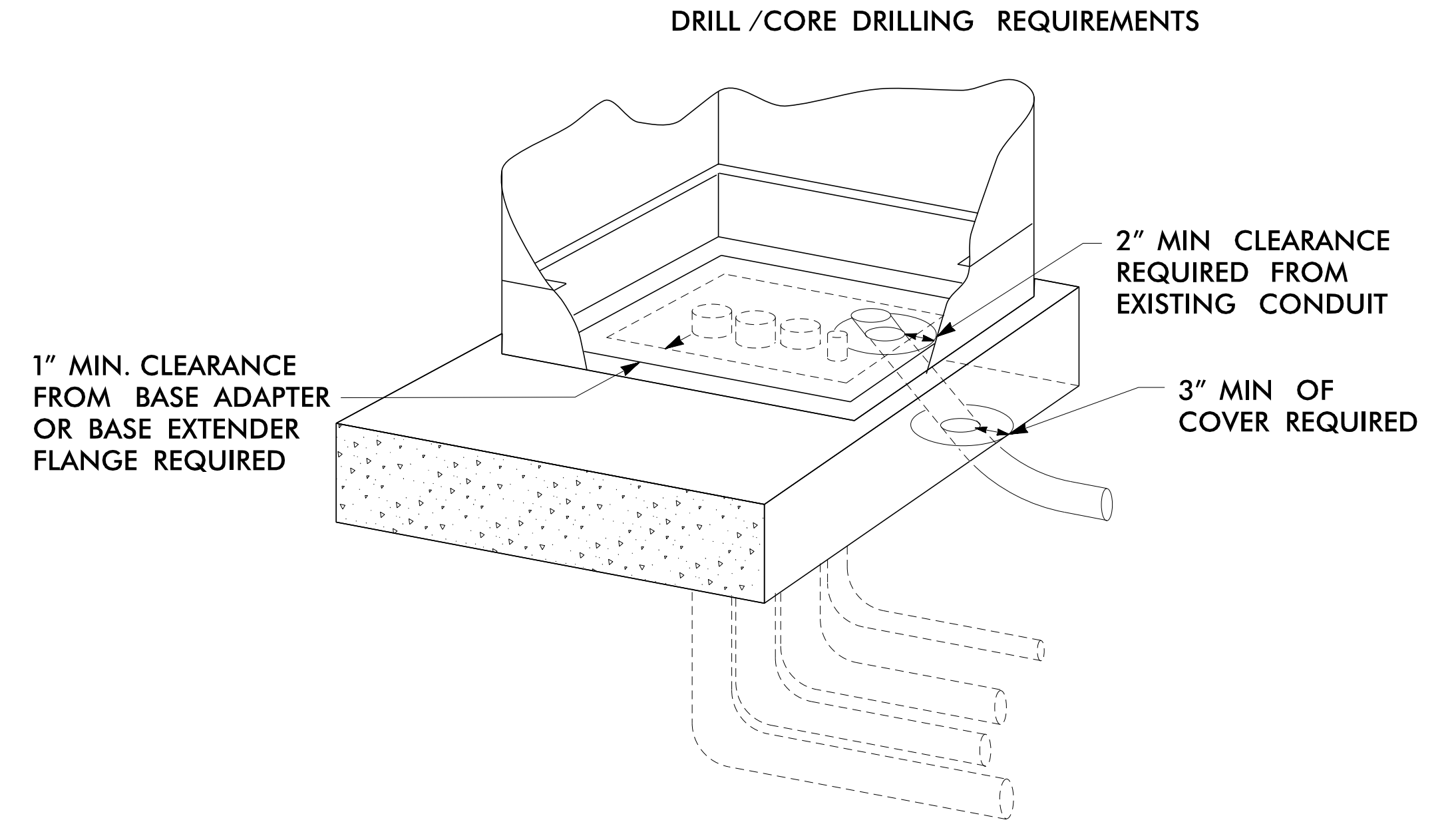
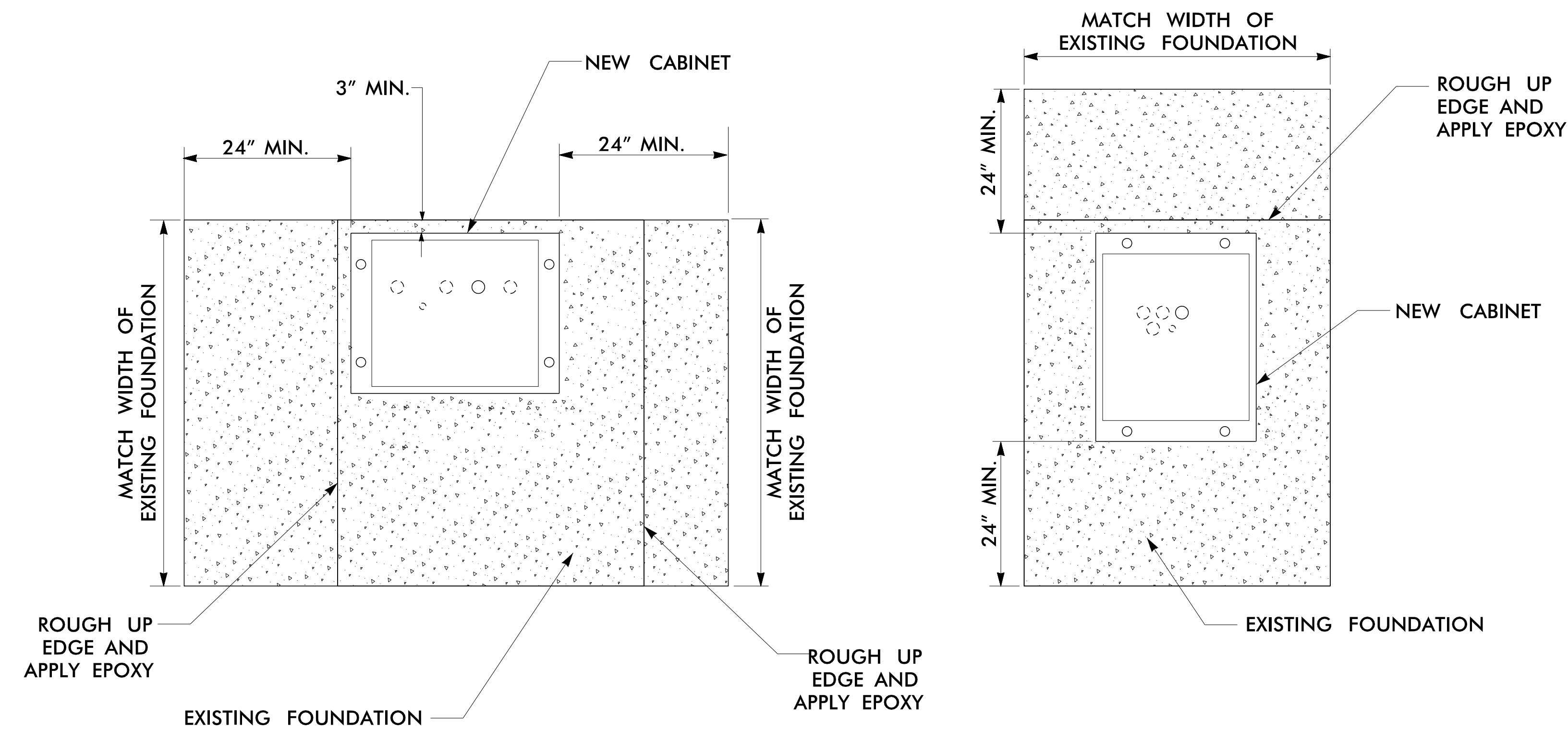
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TYPICAL FOUNDATION MODIFICATIONS



FOUNDATION EXTENSION	LENGTH OF DOWEL
>16"	18"
>6' AND ≤16"	11"
=6"	8"

NOTES

FOR FOUNDATION MODIFICATIONS:

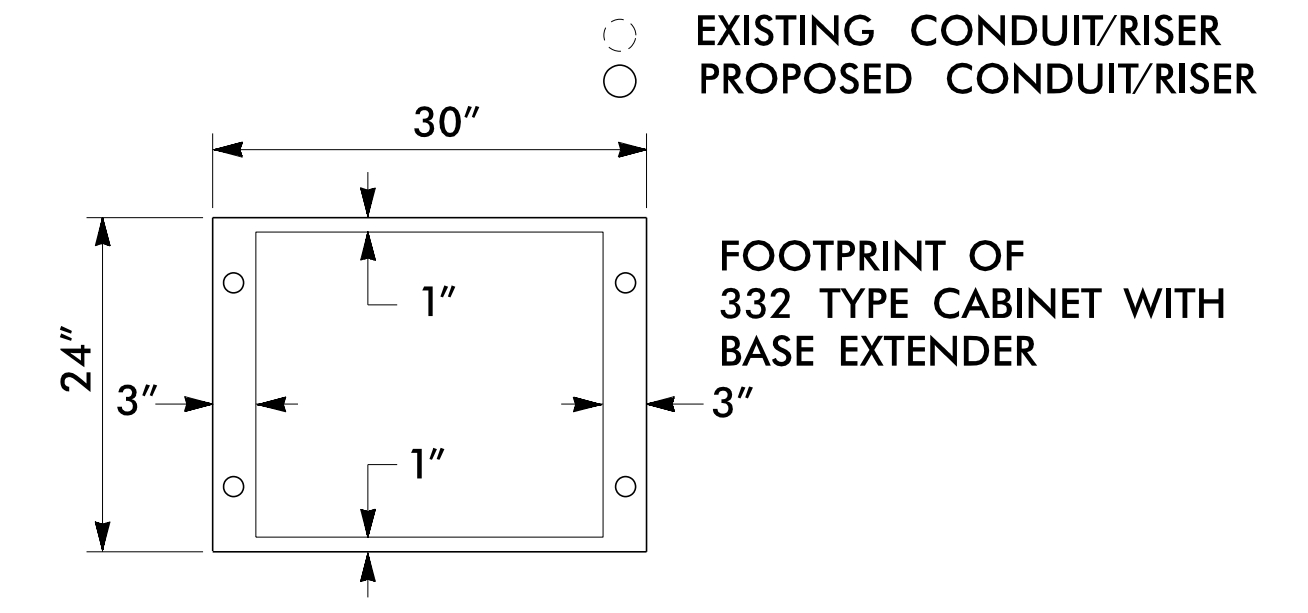
- MAINTENANCE TECHNICIAN PADS SHALL BE ADDED TO THE FOUNDATION TO PROVIDE A MINIMUM PAD AREA THAT EXTENDS 24" FROM THE FRONT AND BACK OF THE CABINET, AND MATCHES THE WIDTH OF THE EXISTING FOUNDATION.
- EXCAVATE THE GROUND AROUND THE EXISTING FOUNDATION TO A DEPTH SUFFICIENT TO EXPOSE A MINIMUM OF 4" OF THE FOUNDATION BELOW EXISTING GRADE.
- ROUGH THE SIDES OF THE EXISTING FOUNDATION FROM THE TOP TO A POINT FOUR INCHES BELOW GRADE BY MEANS OF A CHISEL OR OTHER METHOD APPROVED BY THE ENGINEER.
- WASH THE SIDES OF THE FOUNDATION WITH WATER PRESSURIZED AT 50 PSI AND THOROUGHLY DRY WITH COMPRESSED AIR.
- DRILL HOLES APPROXIMATELY 6" DEEP ON 12-INCH CENTERS INTO THE EXISTING FOUNDATION. INSTALL #4 DOWELS AND EPOXY INTO PLACE. DOWELS SHALL BE THE LENGTH SHOWN IN THE TABLE ABOVE.
- FORM THE SIDES OF THE MODIFIED FOUNDATION TO A MINIMUM DEPTH OF 4" BELOW GRADE.
- POSITION FORMS SO THAT ALL EXISTING EXPOSED FOUNDATION SURFACES AT OR ABOVE GRADE LEVEL WILL BE MATCHED.
- APPLY A COATING OF APPROVED EPOXY BONDING AGENT TO ALL EXPOSED ROUGHENED CONCRETE SURFACES AS RECOMMENDED BY THE MANUFACTURER.
- PROVIDE A ONE INCH CHAMFER ON ALL NEW OUTSIDE EDGES.
- USE CONCRETE TO INSTALL THE MAINTENANCE TECHNICIAN PAD.
- WHERE CABINETS ARE RELOCATED OR ROTATED ON EXISTING FOUNDATION, CUT OFF ANY EXISTING CABINET MOUNTING BOLTS AND GRIND FLUSH WITH THE PAD SURFACE.

NOTES

FOR DRILL AND CORE DRILLING:

- A MINIMUM OF 3" OF COVER SHALL BE MAINTAINED BETWEEN NEW CONDUIT AND EDGE OF EXISTING FOUNDATION.
- MINIMUM CLEARANCES OF 1" FROM THE FLANGE OF THE BASE ADAPTER AND 2" FROM EXISTING CONDUITS SHALL BE MAINTAINED.
- AVOID DAMAGING EXISTING CONDUIT, CONDUCTORS, AND ANCHOR BOLTS. CONTRACTOR SHALL REPAIR SUCH DAMAGES.
- WHERE APPROVED BY THE ENGINEER, EXISTING FOUNDATION MAY BE CHIPPED INSTEAD OF DRILLED FOR CONDUIT ENTRANCE.
- BOND NEW METALLIC CONDUIT TO THE CABINET GROUNDING SYSTEM.
- AFTER INSTALLATION OF CONDUIT, PLACE GROUT TO SEAL AROUND CONDUIT, AND RETURN EXISTING FOUNDATION TO NORMAL APPEARANCE.

LEGEND



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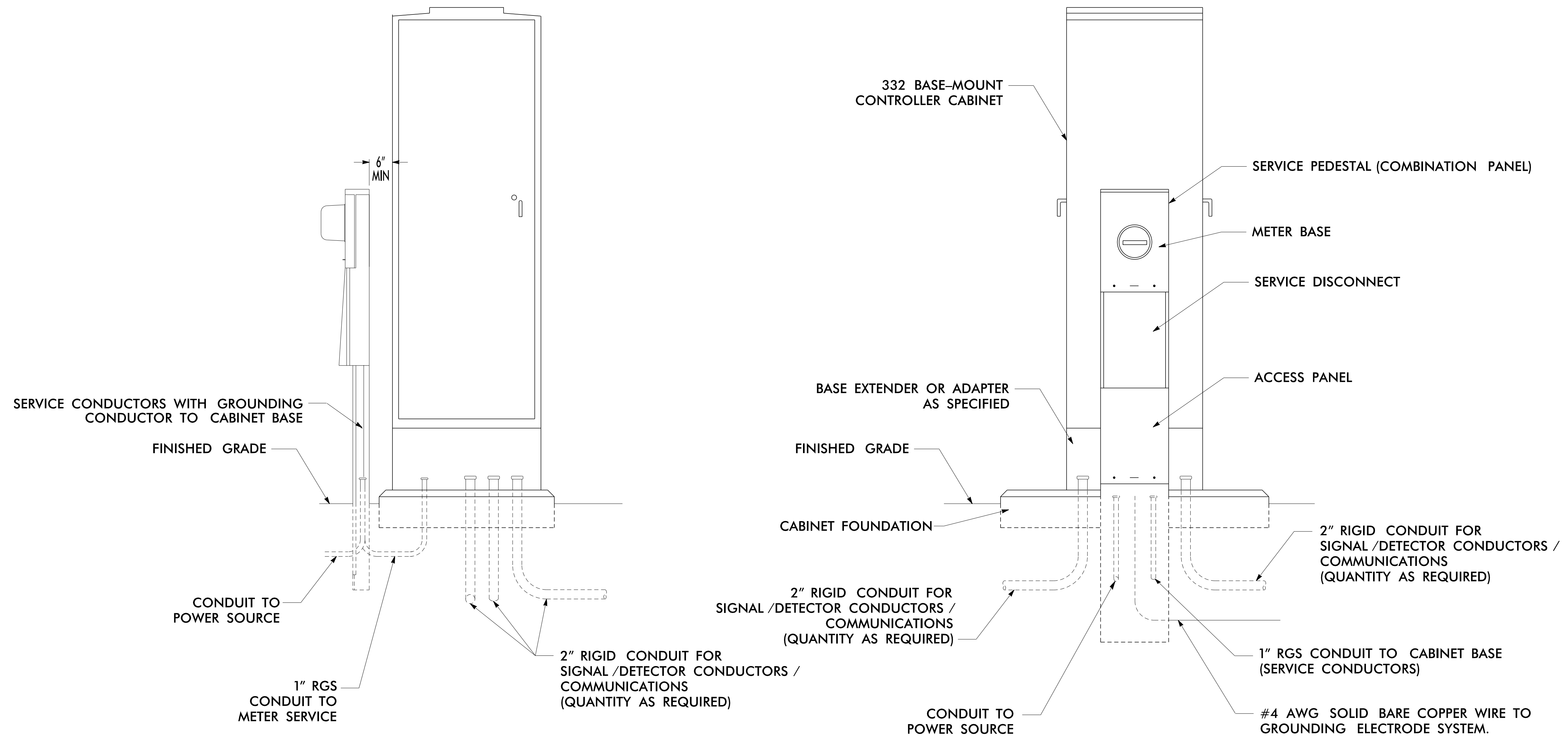
Prepared for the Offices of:		Elizabeth City Signal System Foundation Modification Detail	
Division 1 Pasquotank County Elizabeth City			
PLAN DATE: April 2018	REVIEWED BY: LM Moon		
PREPARED BY: RD Lawton	REVIEWED BY:		
SCALE: N.T.S.	REVISIONS:	INIT.	DATE

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Lisa M. Moon
8/22/2018

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GROUND MOUNTED ELECTRICAL SERVICE DETAIL



NOTES

1. TEST GROUNDING SYSTEM USING AN APPROVED METHOD IN ACCORDANCE WITH SPECIAL PROVISIONS. INSTALL GROUND RODS AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
2. REMOVE ANY EXISTING GROUND RODS IN CONCRETE CABINET FOUNDATION BY CUTTING OFF FLUSH WITH FOUNDATION SURFACE.
3. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWEEN AC NEUTRAL AND EQUIPMENT GROUND.
4. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET TO "EQUIPMENT GROUND".
5. INSTALL RIGID GALVANIZED STEEL CONDUIT (MINIMUM 1") BETWEEN DISCONNECT AND CABINET.
6. SERVICE DISCONNECT GROUND BUS BAR SHALL PROVIDE FOR 2 #4 AWG CONNECTIONS.
7. IF CONDITIONS REQUIRE SERVICE PEDESTAL TO BE INSTALLED IN FRONT OR REAR OF CABINET, MAINTAIN SUFFICIENT CLEARANCE FOR DOOR TO FULLY OPEN.

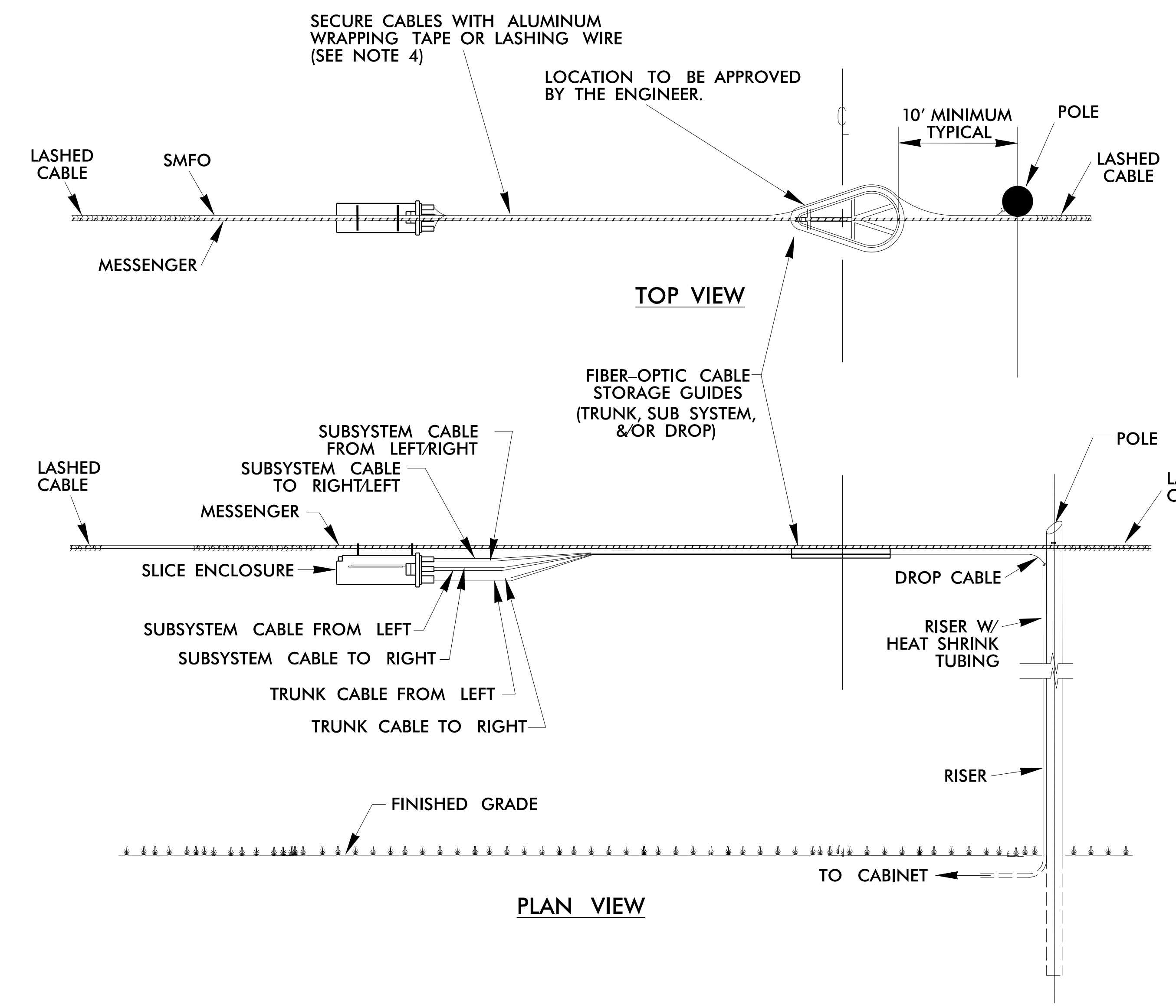
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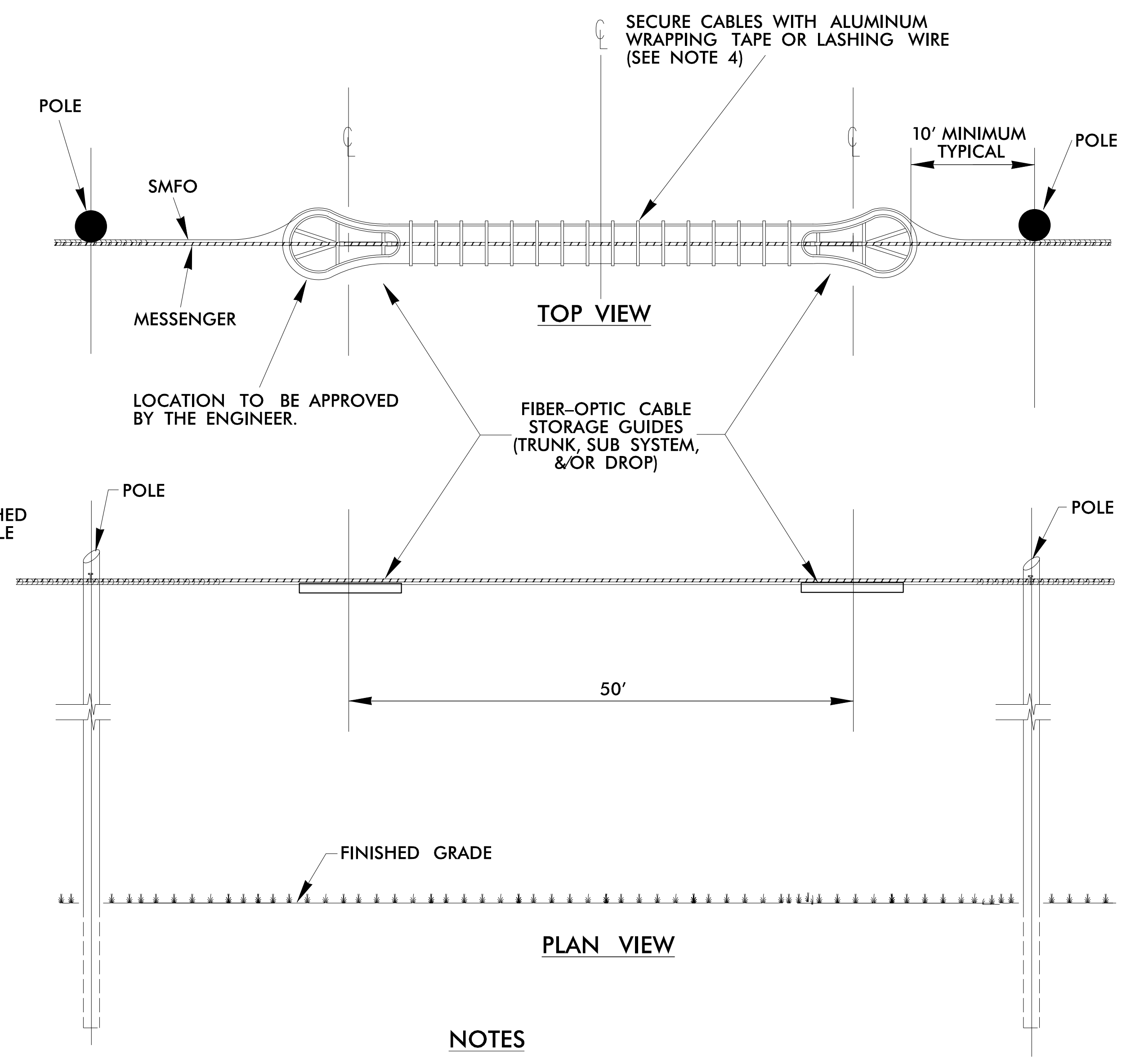
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8000 Regency Parkway, Suite 175
Cary, NC 27518
NC License No. C-2213 4919 650-1038

<p style="font-size: x-small;">Prepared for the Offices of:</p> <p style="font-size: x-small;">750 N. Greenfield Pkwy., Garner, NC 27529</p>	<p>Elizabeth City Signal System Ground Mounted Electrical Service Detail</p> <p style="font-size: x-small;">Division 1 Pasquotank County Elizabeth City</p> <p style="font-size: x-small;">PLAN DATE: April 2018 REVIEWED BY: LM Moon</p> <p style="font-size: x-small;">PREPARED BY: RD Lawton REVIEWED BY:</p>	<p style="font-size: x-small;">DocuSigned by: Lisa M. Moon 9/20/2018</p>									
<p>SCALE</p> <p style="font-size: x-large;">N.T.S.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS	INIT.	DATE							<p>CADD Filename:</p>
REVISIONS	INIT.	DATE									

SPLICE ENCLOSURE WITH STORAGE TYP. DETAIL



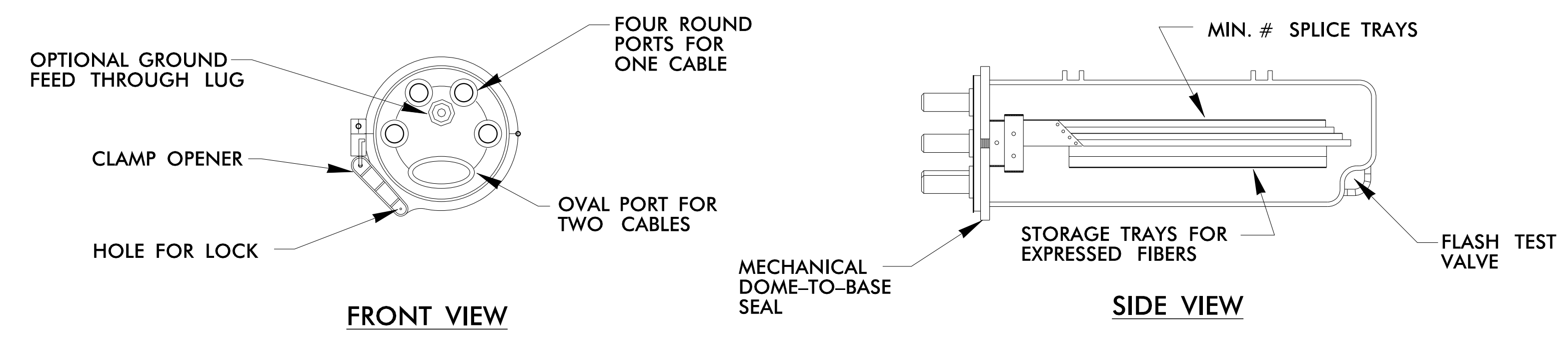
SPARE CABLE STORAGE TYP. DETAIL



NOTES

1. SPARE FIBER-OPTIC CABLE SHALL NOT BE STORED OVER ROADWAYS OR DRIVEWAYS.
2. STORE 100' OF SPARE FIBER-OPTIC CABLE WHERE SHOWN ON PLANS.
3. FIBER-OPTIC CABLE STORAGE GUIDE MATERIAL AND SIZE SHALL BE AS INDICATED IN THE PROJECT SPECIAL PROVISIONS.
4. 0.05" THICK BY 0.3" WIDE ALUMINUM WRAPPING TAPE (FOUR TURNS MINIMUM) AT 6" ON CENTER OR .061" LASHING WIRE WITH ONE 360 DEGREE SPIRAL PER FOOT.
5. FOR SPLICE ENCLOSURES:
 - A) APPLY A HEAT SOURCE, AS RECOMMENDED BY THE MANUFACTURER, TO SHRINK THE HEAT SHRINKABLE TUBING TO PROVIDE A SECURE FIT AROUND THE CABLES AND PORTS.
 - B) PERFORM A PRESSURIZATION FLASH TEST UPON CONCLUSION OF THE SPLICING AND PRIOR TO THE FINAL PLACEMENT OF THE ENCLOSURE.

SPLICE ENCLOSURE DETAILS



PLANS PREPARED BY:

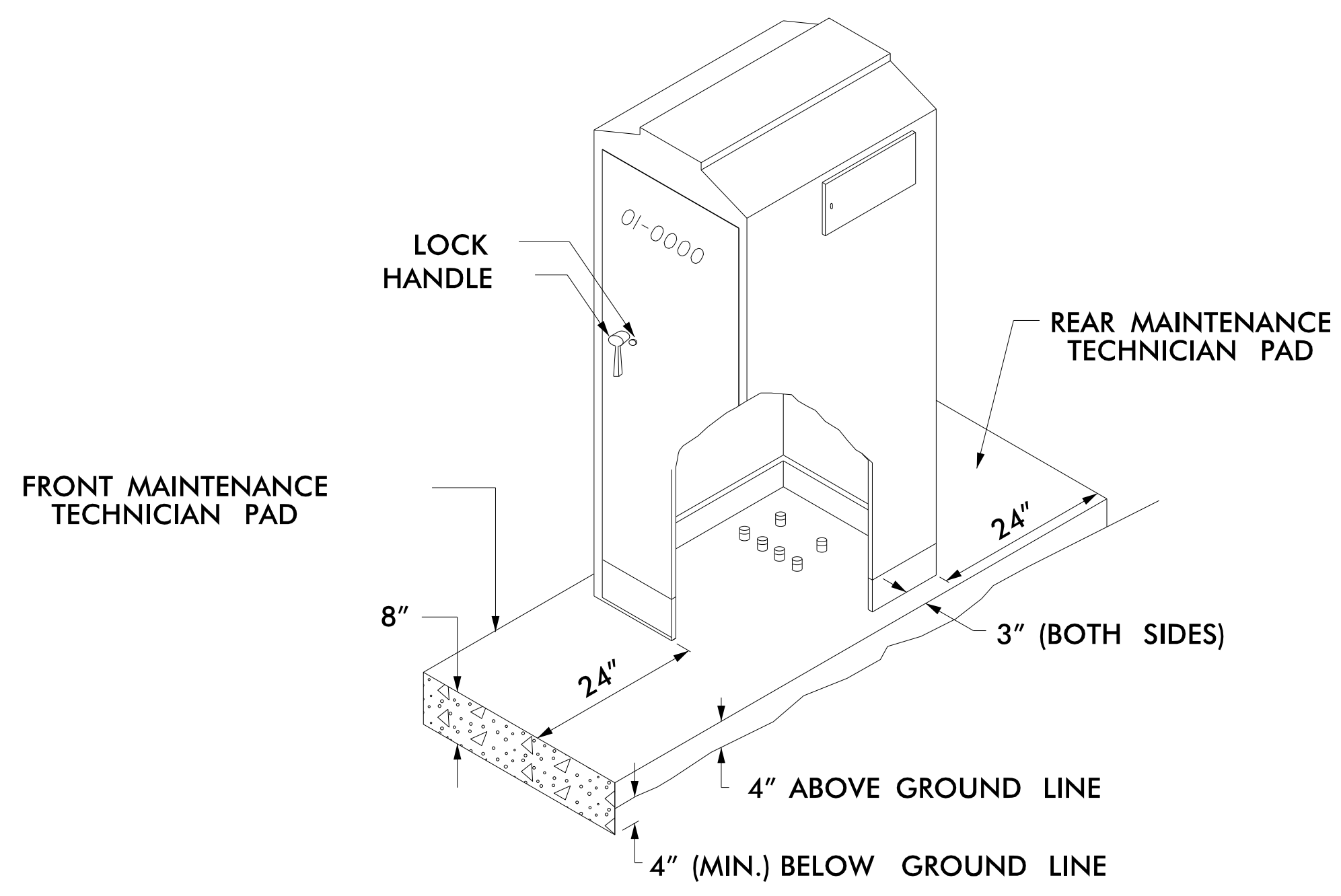
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8000 Regency Parkway, Suite 175
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NC License No. C-2213 4919 650-1038

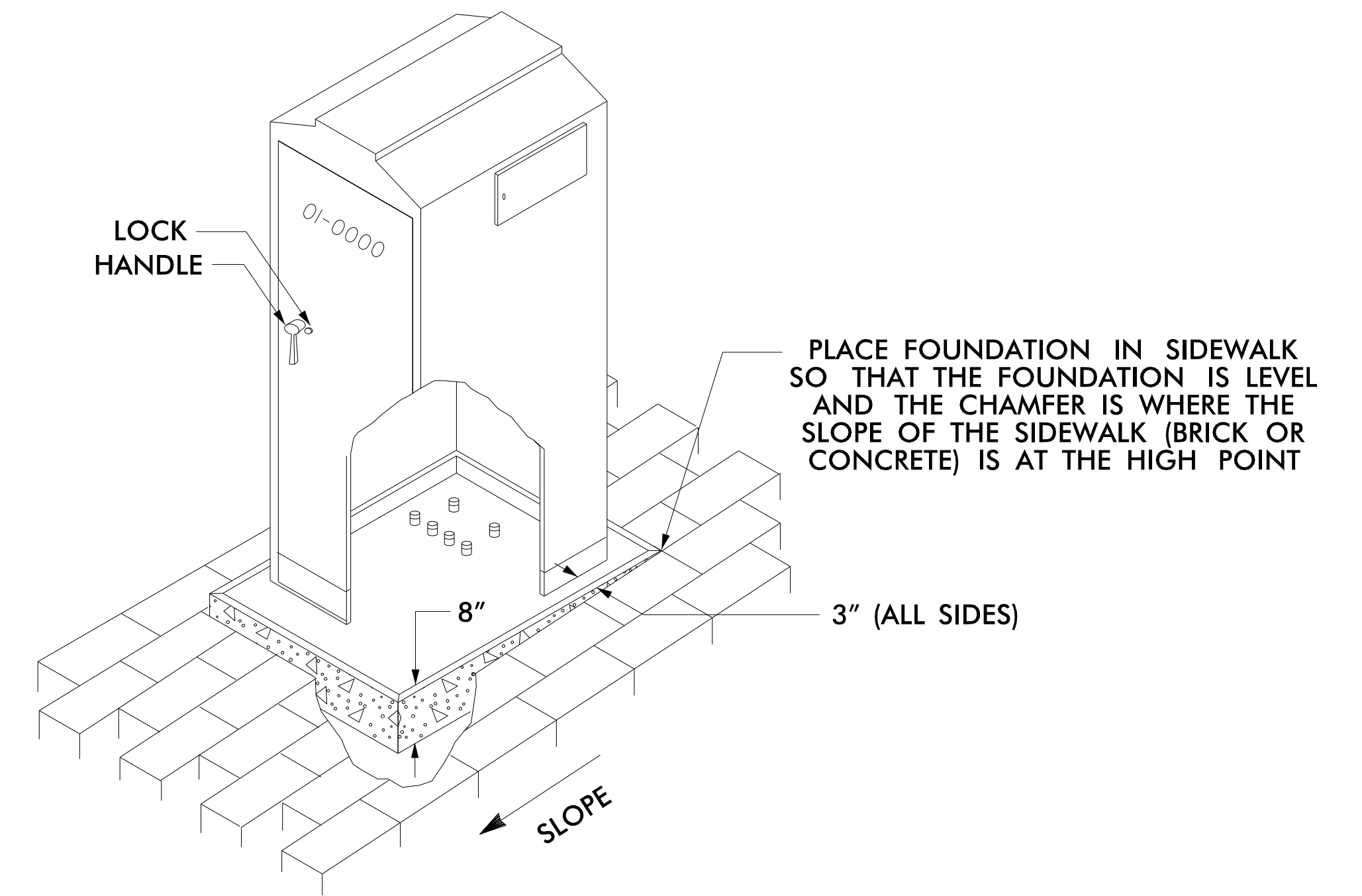
Prepared for the Offices of:		Elizabeth City Signal System	
Aerial Fiber-Optic Cable Storage & Splice Enclosures		Division 1 Pasquotank County Elizabeth City	
PLAN DATE:	April 2018	REVIEWED BY:	LM Moon
PREPARED BY:	RD Lawton	REVIEWED BY:	
SCALE:	N.T.S.	REVISIONS:	INIT. DATE
		DocuSigned by: Lisa M. Moon 9/20/2018 DATE CADD Filename:	

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**TYPICAL BASE-MOUNTED CABINET
NEW STANDARD FOUNDATION**



**TYPICAL BASE-MOUNTED CABINET
NEW FOUNDATION IN SIDEWALK**



NOTES

1. STUB OUT SPARE 2" CONDUIT TO 12" BEYOND EDGE OF CABINET FOUNDATION.
2. SEAL SPARE CONDUIT WITH REMOVABLE CAP.
3. TOPS OF CONDUIT SHALL BE NO LESS THAN 2" AND NO MORE THAN 3" ABOVE FOUNDATION.

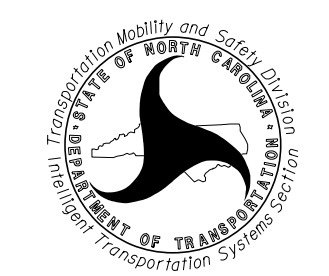
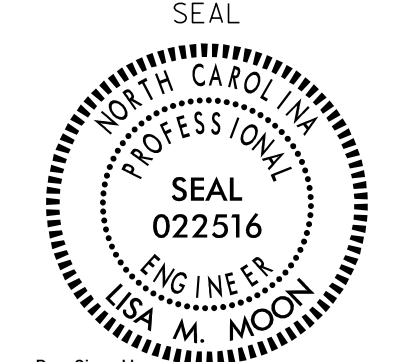
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PLANS PREPARED BY:

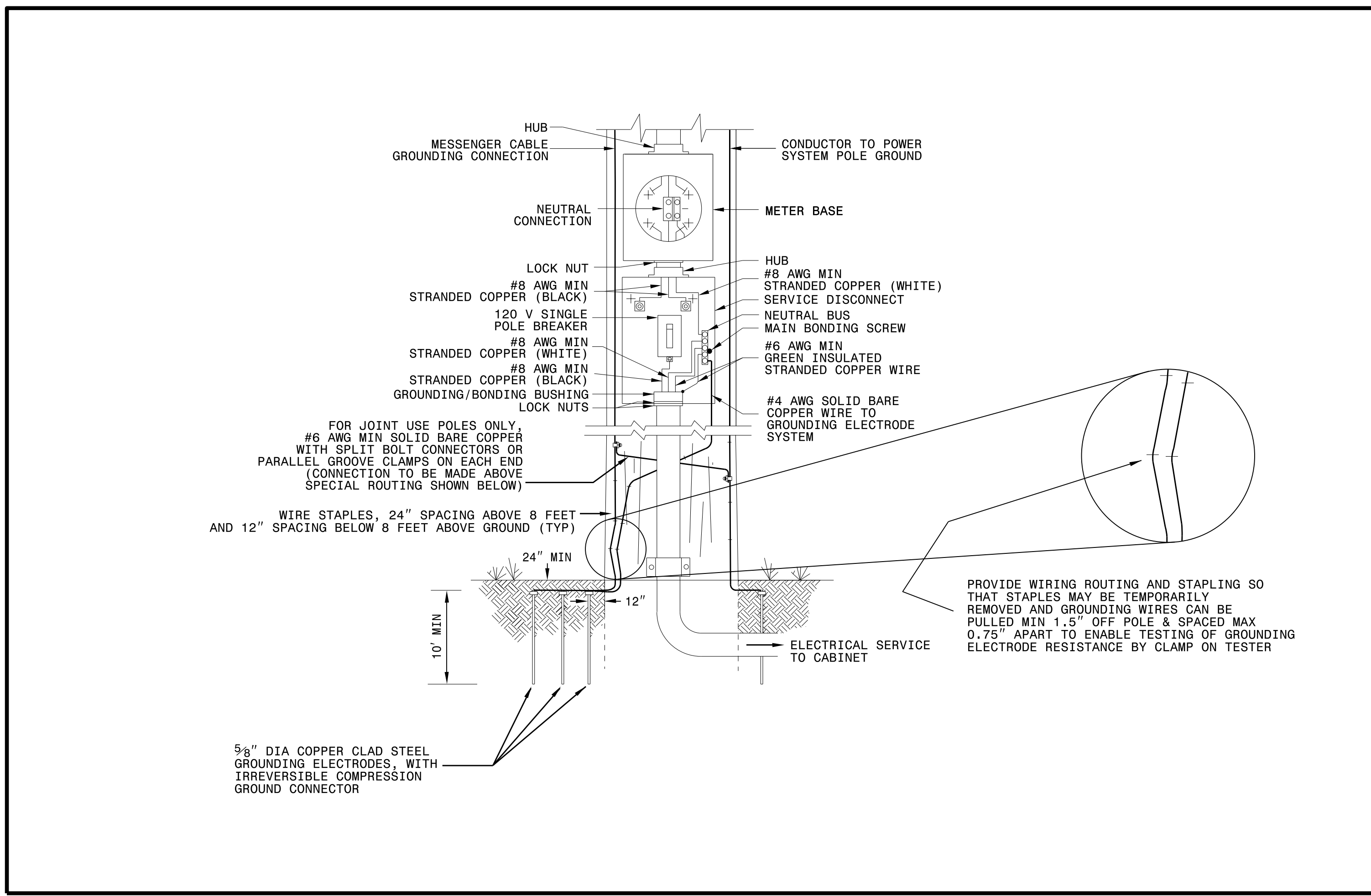


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 Prepared for the Offices of: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION Division 1 Pasquotank County Elizabeth City 750 N. Greenfield Pkwy., Garner, NC 27529	Elizabeth City Signal System Base-Mounted Cabinet Foundation Details		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER LISA M. MOON 022516
	PLAN DATE: April 2018 PREPARED BY: RD Lawton	REVIEWED BY: LM Moon REVIEWED BY:	
DocuSigned by: Lisa M. Moon 9/20/2018 56FE68D330421		DATE:	

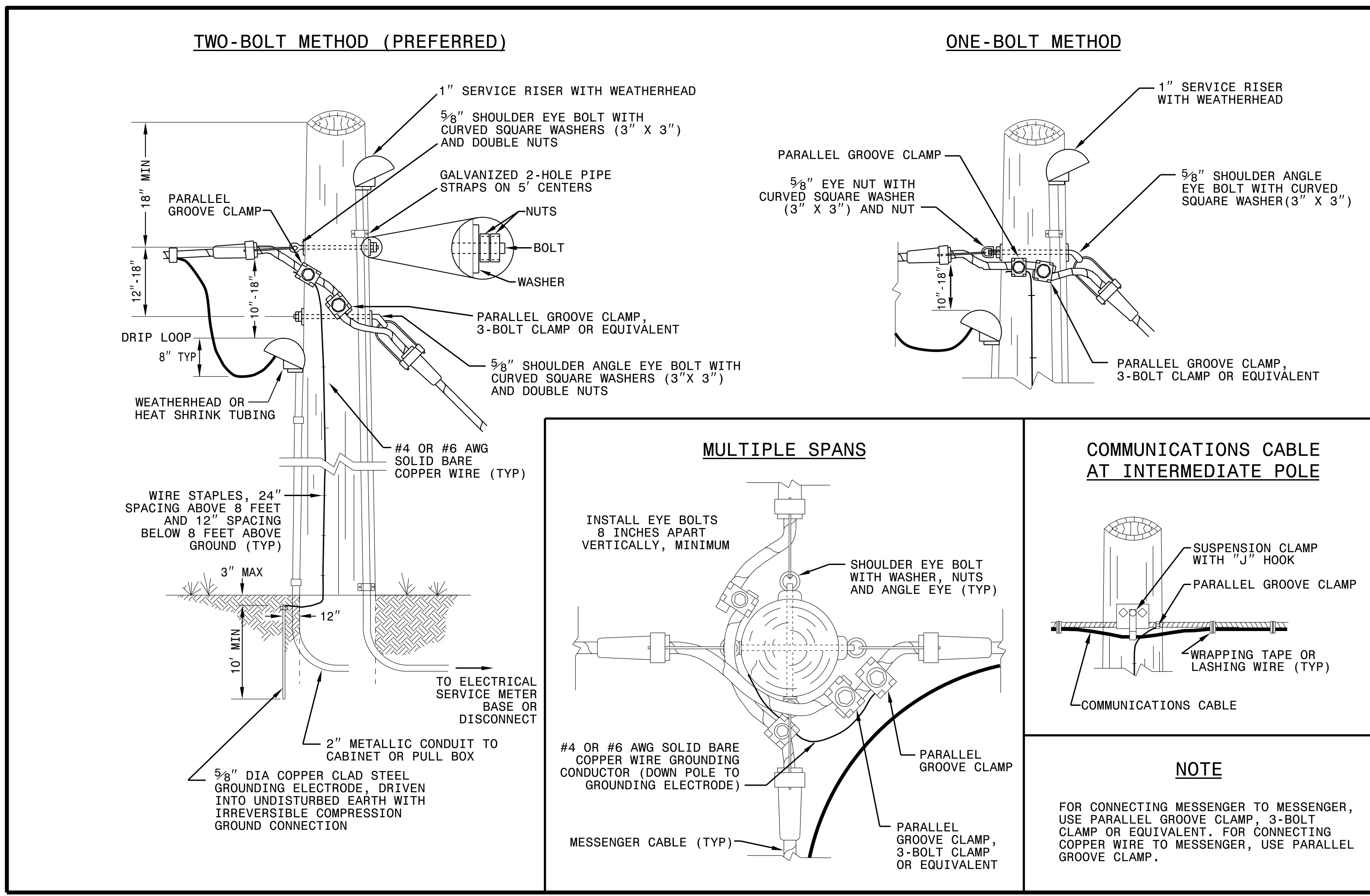
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1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR **ELECTRICAL SERVICE GROUNDING** GROUNDING AND BONDING

SHEET 1 OF 1
1700D01



1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR **WOOD POLES** METHODS OF ATTACHMENT AND GROUNDING

SHEET 1 OF 1
1720D01

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SIGNATURES COMPLETED

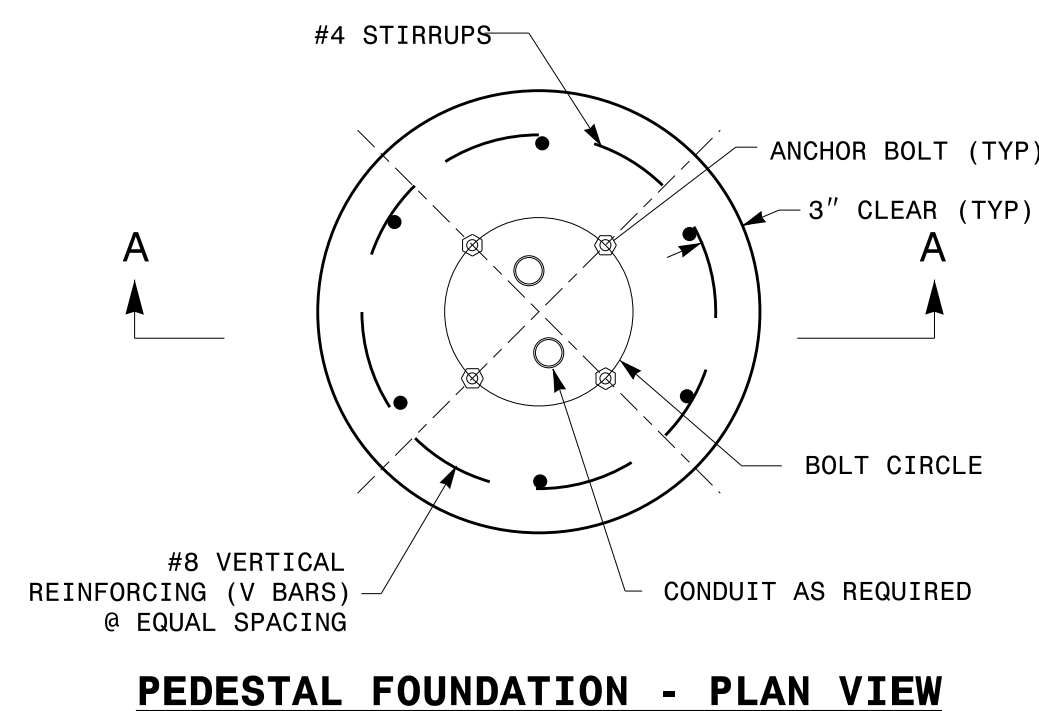
See Plate for Title

Prepared in the Offices of:

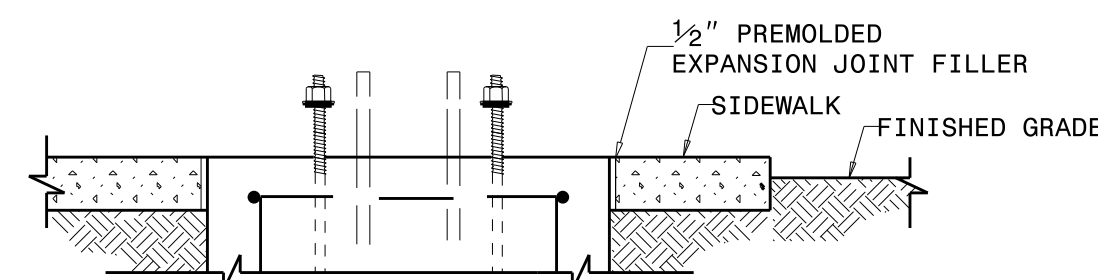
750 N. Greenfield Parkway
Garner, NC 27529

SEAL

DocuSigned by:
Mohd Aslami
10/11/2017
DATE



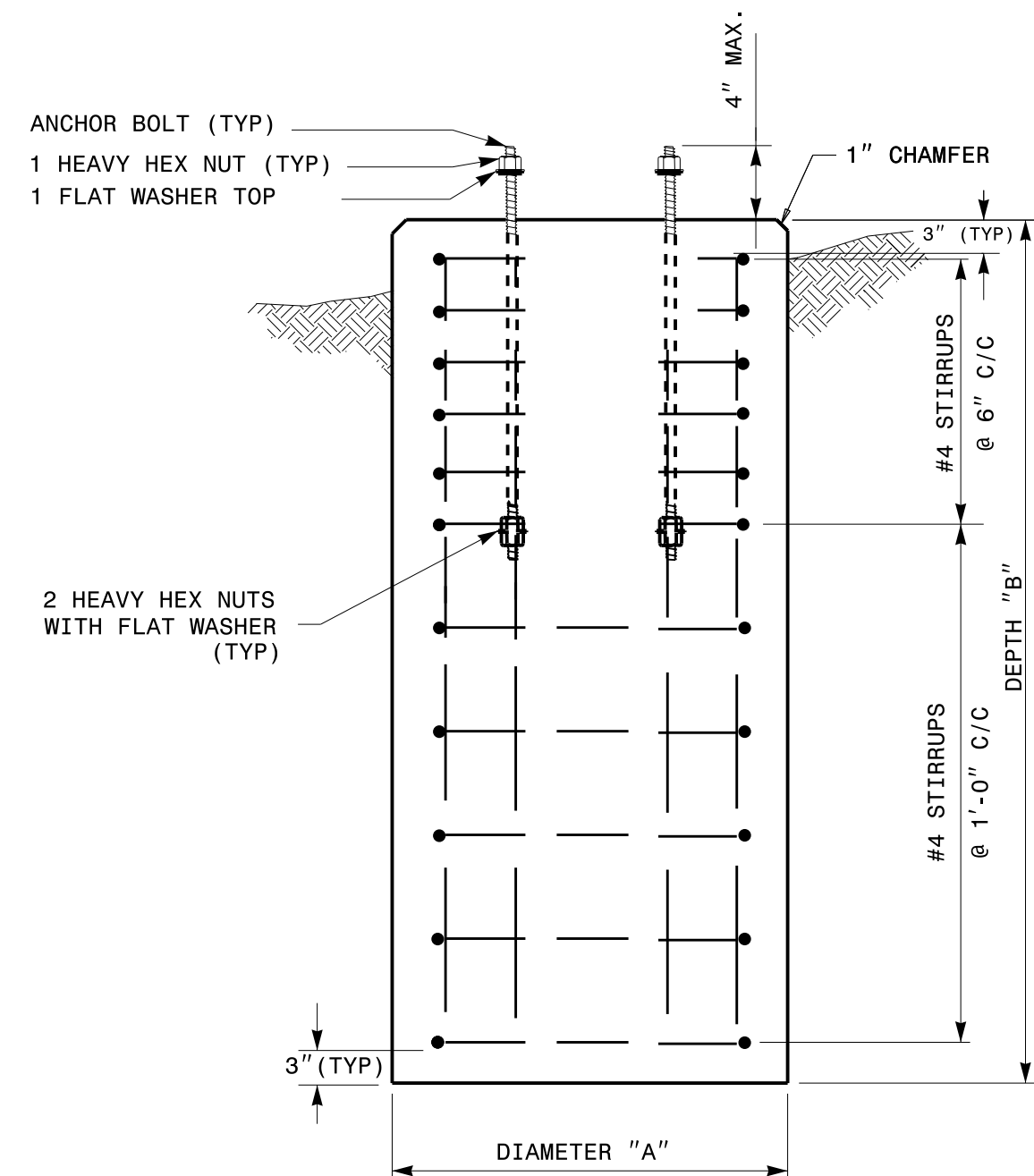
PEDESTAL FOUNDATION - PLAN VIEW



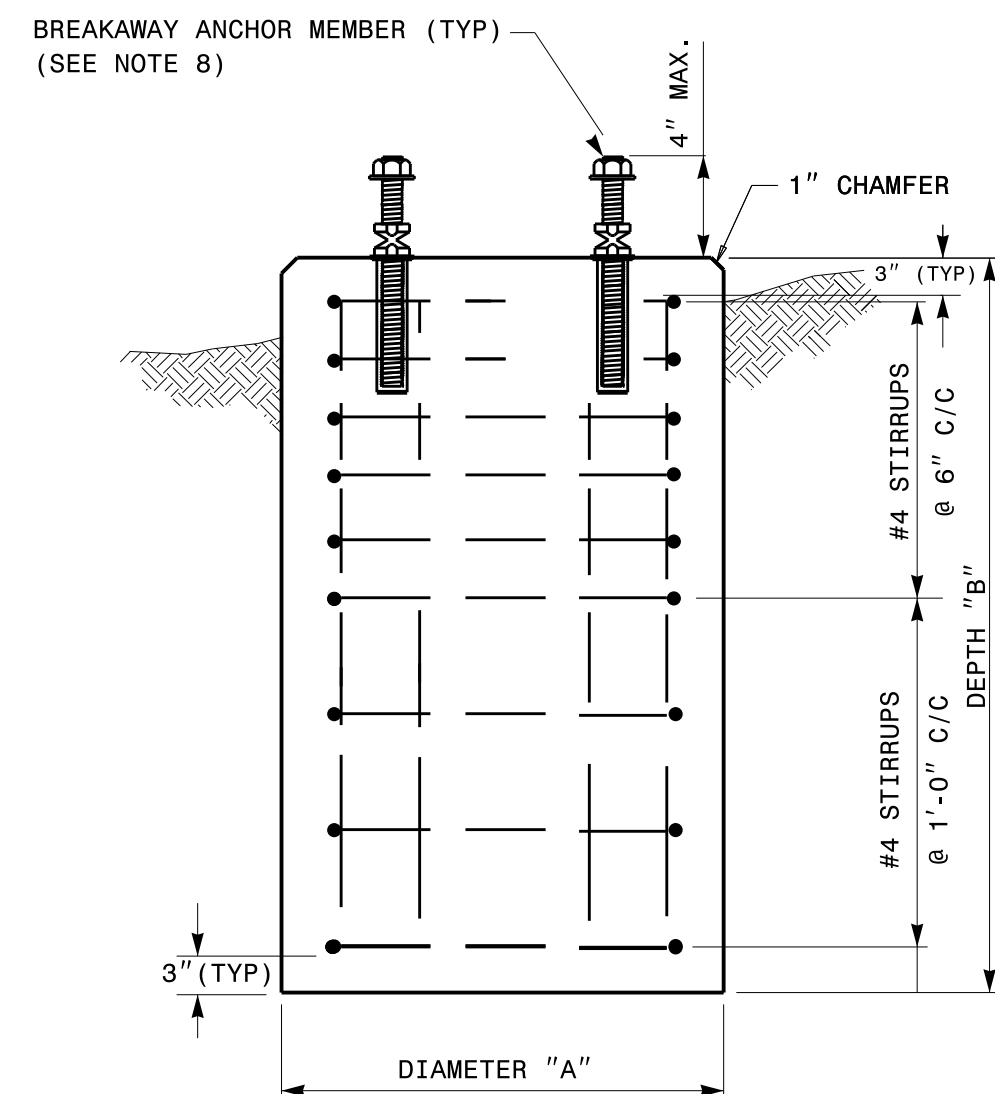
PEDESTAL FOUNDATION DETAILS FOR SIDEWALK

NOTES:

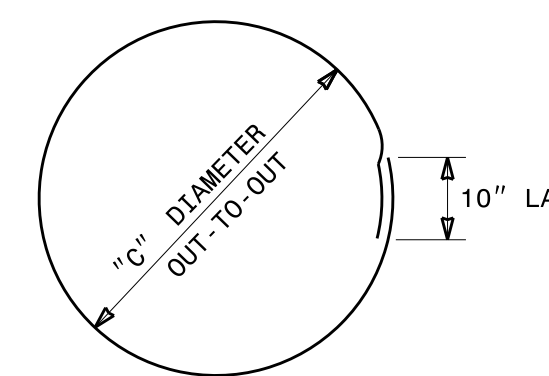
- CAST FOUNDATION AGAINST UNDISTURBED SOIL WHEREVER CONDITIONS PERMIT. IN UNSTABLE SOIL, CAST-IN-PLACE TUBE FORMS ARE ALLOWED WITH APPROVAL.
- COMPLY WITH APPLICABLE PROVISIONS OF SECTION 825 FOR CONCRETE CONSTRUCTION.
- USE CLASS "A" CONCRETE THAT MEETS THE REQUIREMENTS OF SECTION 1000 WITH A COMPRESSION STRENGTH AT 28 DAYS OF $F'c = 3000$ PSI (MIN.).
- USE ASTM GRADE 60 DEFORMED BARS FOR ALL REINFORCING STEEL.
- GRADE IS ASSUMED TO BE (8H:1V) OR FLATTER. FOUNDATION SIZE AND DEPTHS ARE BASED ON THE FOLLOWING SOIL DESIGN PARAMETERS:
 - SANDY TYPE SOIL
 - NO GROUND WATER WITHIN 5'-0" OF SURFACE ELEVATION
 - WIND SPEED NOT TO EXCEED 140 MPH
 IF ACTUAL CONDITIONS VARY SUBSTANTIALLY FROM THOSE ASSUMED, THE FOUNDATION DEPTH MAY BE ADJUSTED. IN THIS CASE, CONTACT THE ENGINEER.
- MAINTAIN AT LEAST 3" COVER ON ALL REINFORCEMENT.
- ORIENT CONDUIT AS REQUIRED BY THE DESIGN OR AS DICTATED BY FIELD CONDITIONS.
- USE ADHESIVE ANCHOR FOR THREADED COUPLING INSERT. FOR TYPE I MINIMUM DEPTH NECESSARY IS 0'-4 1/2" AND FOR TYPE II MINIMUM DEPTH NECESSARY IS 0'-6 5/8". FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.



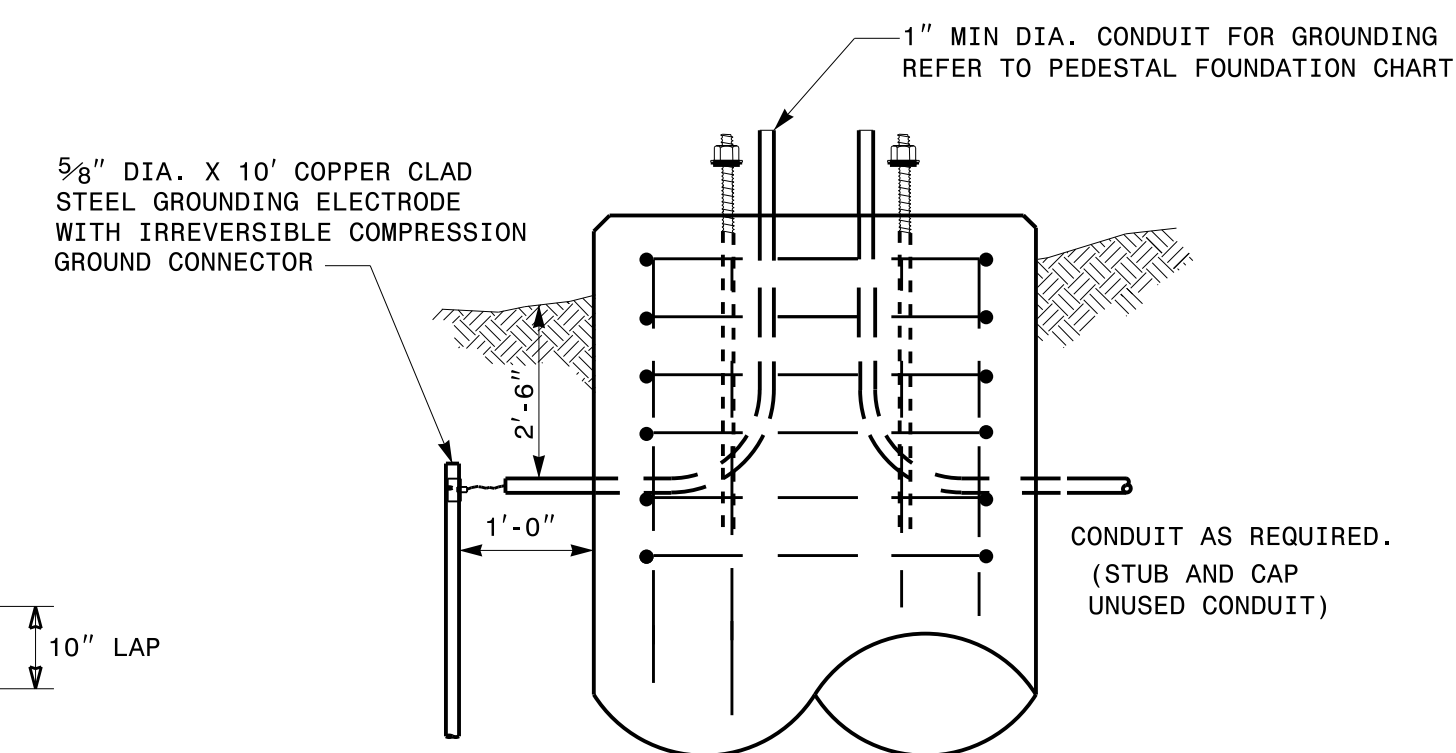
**TYPES I, II & III
SECTION A-A**



**TYPES I & II ONLY
SECTION A-A**



CLOSED HOOPS



GROUNDING & CONDUIT DETAIL

PEDESTAL FOUNDATION TYPE AND SIZE							
TYPE	PEDESTAL DESCRIPTION	SIZE			ANCHOR BOLT		INSTALL GROUNDING SYSTEM (YES/NO)
		DIAMETER "A" FT	DEPTH "B" FT	CONCRETE VOLUME CY	DIAMETER (MIN.) IN	LENGTH FT-IN	
I	PEDESTRIAN PUSHBUTTON	2'-0"	3'-6"	.41	1/2	1'-6"	NO
II	NORMAL-DUTY	2'-0"	5'-0"	.58	3/4	2'-0"	YES
III	HEAVY-DUTY	2'-6"	7'-0"	1.27	1	4'-0"	YES

REINFORCING STEEL SCHEDULE													
TYPE	V-BAR				STIRRUP								
	SIZE #	QTY	LENGTH	WEIGHT LBS	SIZE #	QUANTITY			LENGTH	DIAMETER "C" FT	OVERLAP MIN.	WEIGHT LBS	TOTAL STEEL WEIGHT LBS
						VERTICAL ON 6" CENTERS	SPACING ON 12" CENTERS	TOTAL					
I	8	6	3'-0"	56	4	0	4	4	5'-7"	1'-6"	0'-10"	15	71
II	8	6	4'-6"	86	4	5	3	8	5'-7"	1'-6"	0'-10"	30	116
III	8	6	6'-6"	122	4	7	4	11	7'-2"	2'-0"	0'-10"	53	175

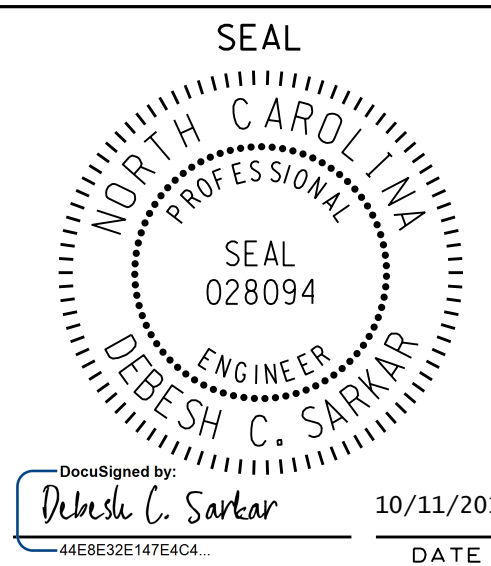
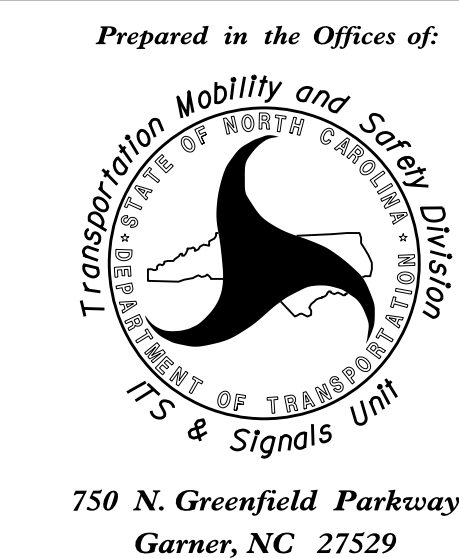
SHEET 1 OF 1
1743D01

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ENGLISH STANDARD DRAWING FOR
PEDESTALS
 FOUNDATIONS

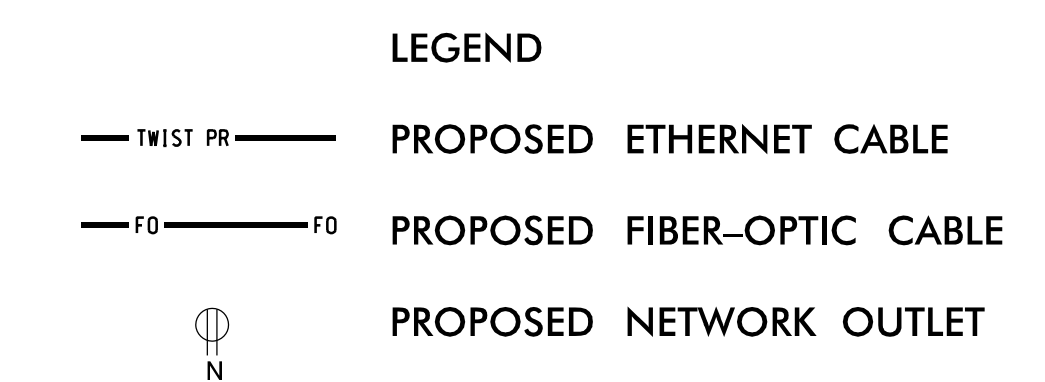
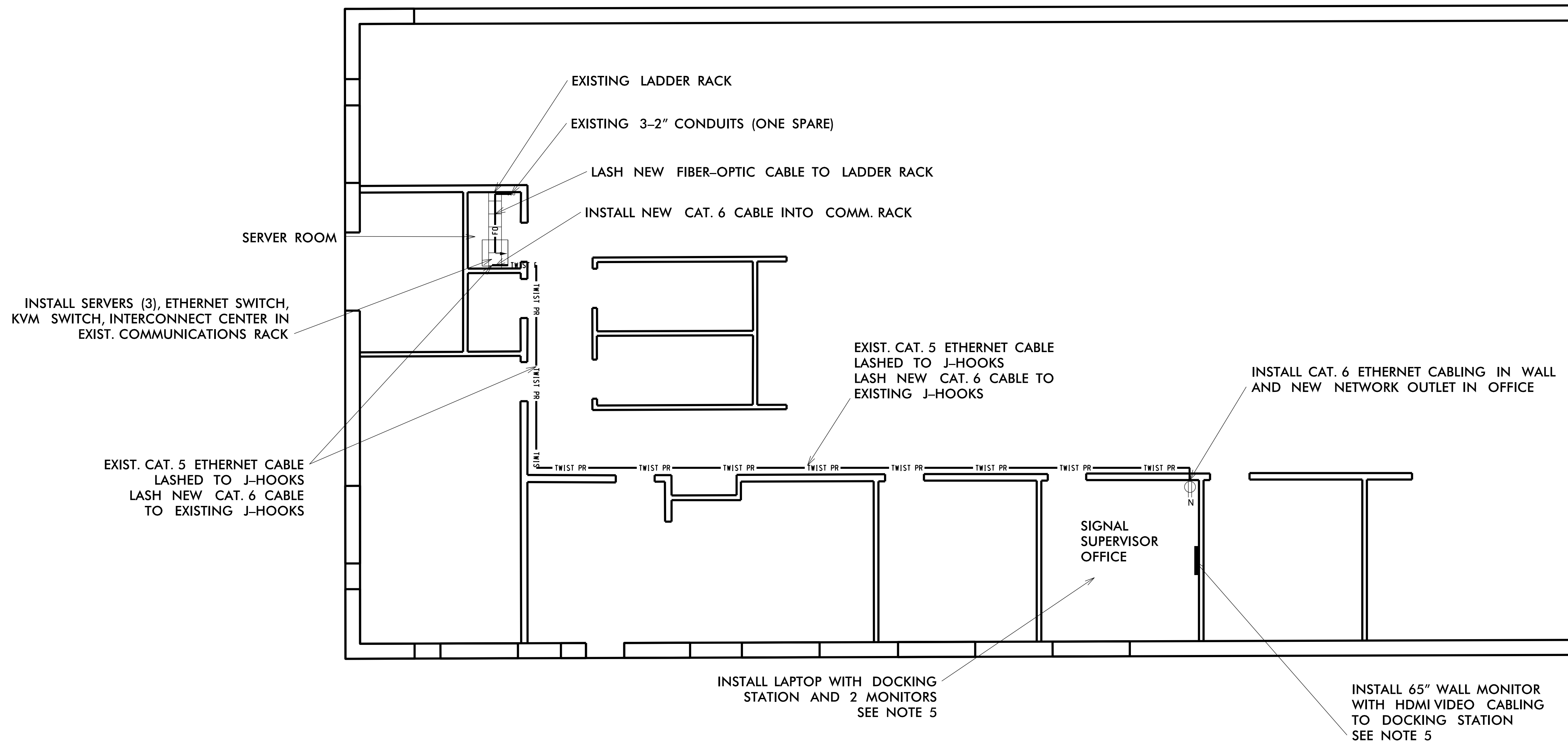
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See Plate for Title



Elizabeth City District Office



- NOTES**
1. SEE ALSO CRP-028 FOR CABLE ROUTING TO AND INTO THE BUILDING.
 2. COORDINATE BUILDING ACCESS WITH SIGNAL SUPERVISOR.
 3. INSTALL ALL NEW SERVER EQUIPMENT, ETHERNET SWITCH, INTERCONNECT CENTER, FIREWALL, AND KVM SWITCH IN EXISTING RACK.
 4. INSTALL NEW ETHERNET CABLING TO SIGNAL SUPERVISOR OFFICE.
 5. COORDINATE LOCATION OF LAPTOP, DOCKING STATION, AND WALL MONITOR WITH SIGNAL SUPERVISOR.
 6. NCDOT TO PROCURE AND INSTALL NTERNET SERVICE FOR THE PROJECT.

\$\$\$SYTIME\$\$\$
 \$\$\$SDOANS\$\$\$
 \$\$\$SRNAME\$\$\$

ATKINS

5600 77 CENTER DRIVE, SUITE 340
 CHARLOTTE, NORTH CAROLINA 28212
 (704) 522-7275 NCBES #F-0326

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Elizabeth City Signal System
Traffic Management Center

Division 1 Pasquotank County Elizabeth City

PLAN DATE: August 2018 REVIEWED BY: HA Badgett

PREPARED BY: HA Badgett REVIEWED BY: BJ Slocum

REVISIONS	INIT.	DATE

SIGNATURE _____ DATE _____

CADD Filename: ITS-4.09.DGN

SEAL

NORTH CAROLINA

PROFESSIONAL

SEAL

019962

ENGINEER

HENRY ALEXANDER BADGETT

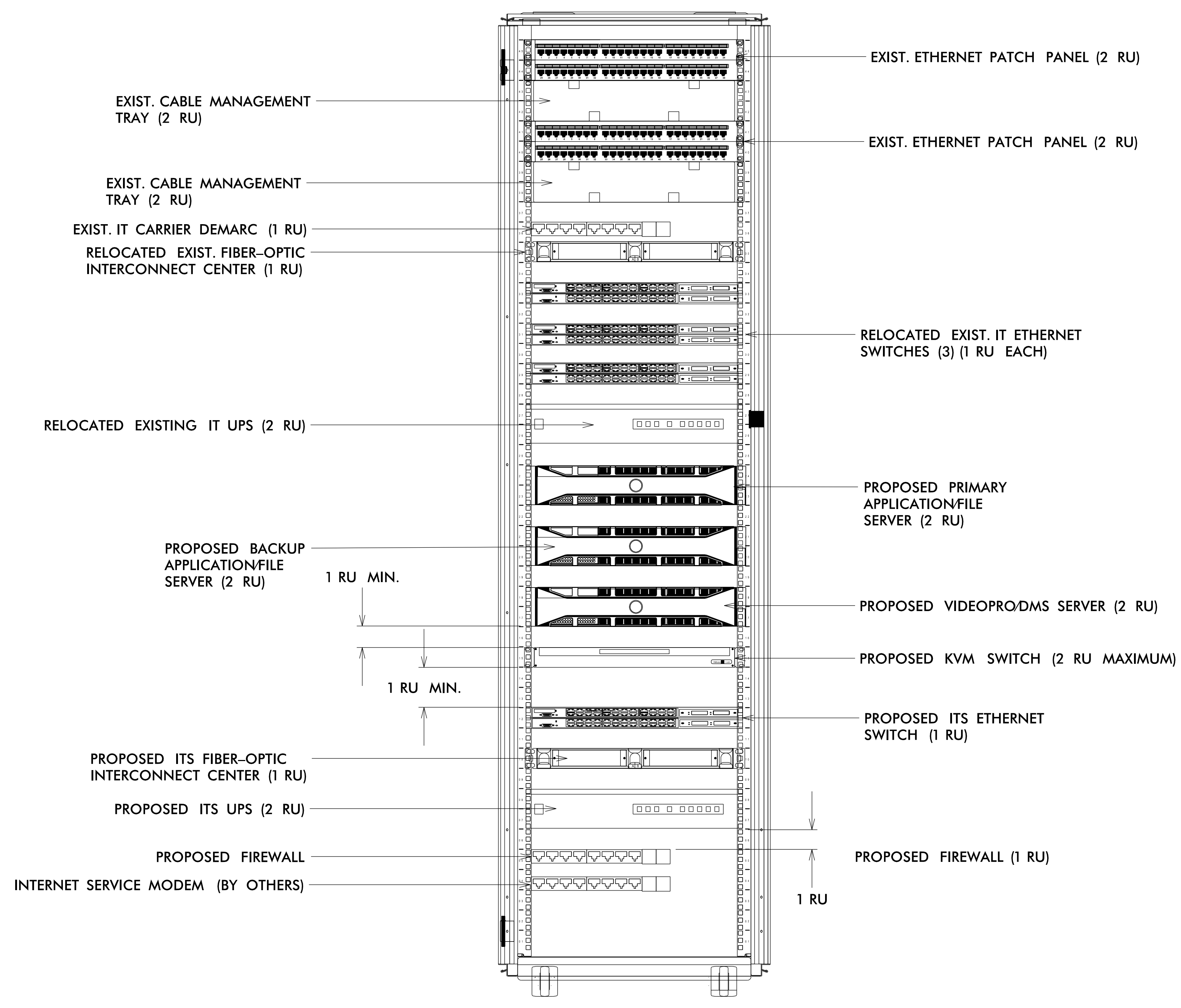
August 2018

750 Greenfield Parkway, Garner, NC 27529

0 SCALE 5'

1" = 5'

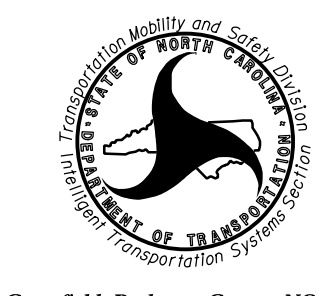
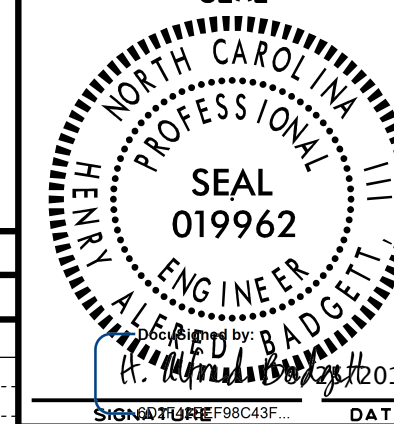
EXISTING COMMUNICATIONS RACK



\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$SYSDOANS\$\$\$\$\$
\$\$\$\$\$SYSDOANS\$\$\$\$\$

ATKINS 5600 77 CENTER DRIVE, SUITE 340
 CHARLOTTE, NORTH CAROLINA 28212
 (704) 522-7275 NCBEEES #F-0326

DOCUMENT NOT CONSIDERED FINAL
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 Prepared for the Offices of: Elizabeth City Signal System Communications Rack	Division 1 Pasquotank County Elizabeth City		
	PLAN DATE: August 2018 PREPARED BY: HA Badgett	REVIEWED BY: HA Badgett REVIEWED BY: BJ Slocum	
SCALE NTS	REVISIONS	INIT. DATE	SIGNATURE DATE CADD Filename: ITS-4.10.DGN

SUMMARY OF WORK BY CABLE ROUTING PLANS

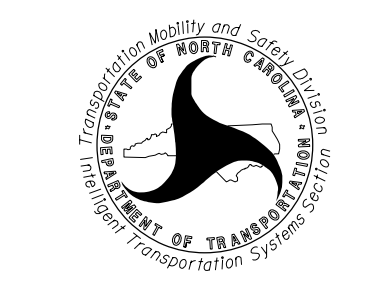

CABLE ROUTING SHEET NUMBER	MESSENGER CABLE (1/4")	BOND MESSENGER CABLE	BOND RISER	TRACER WIRE	UNDERGROUND CONDUIT (1 CONDUIT, 1 INCH)	UNDERGROUND CONDUIT (1 CONDUIT, 2 INCH)	UNDERGROUND CONDUIT (2 CONDUIT, 2 INCH)	DIRECTIONAL DRILL (2 CONDUIT, 2 INCH)	JUNCTION BOX (OVER-SIZED)	JUNCTION BOX (SPECIAL-SIZED)	REMOVE EXISTING JUNCTION BOX	DELINEATOR MARKER	JUNCTION BOX MARKER	MOLDABLE DUCT SEAL
	LF	EA	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA
CRP-003	560	1	1											1
CRP-004		2												
CRP-005	385	2	2	620			435	190	3	1		2	2	5
CRP-006	585	1	1											1
CRP-007		1	1	645			395	255	2			1	1	
CRP-008				545			265	255	2					
CRP-009		1		410				368		1			1	
CRP-010		2	1	370				375		1			1	1
CRP-011	100	2	1											
CRP-012	350	1		80				80	2			1	1	
CRP-013		1												
CRP-014		1												
CRP-015		2	2	545				545	2			2		
CRP-016	330	2	2	515	15		30	415	2				2	
CRP-017				1,460			110		1					
CRP-018				1,485		20	415	1,030	7	1		3	5	6
CRP-019				85				85	1			1		
CRP-020		3	2											
CRP-021		2	1											
CRP-022		1	1	1,175			495	685	2			2		
CRP-023				1,440		25	855	680	4			2	3	
CRP-024				1,410			470	940	3			1	2	
CRP-025	1,345	2	1	115				115	1			1		
CRP-026	1,450	1												
CRP-027	1,450	1												
CRP-028	1,755	3	1	105				60	1					
CRP-029		2	2	575				575	1					
CRP-030				3,180			320	2,075	6	1		4	3	
CRP-031	145	3	3					45	1			1		
CRP-032	80	2	2	955			24	930	4					
CRP-033		2	1											
CRP-034	640	4												
CRP-035	250	2	4	850		25	30	820	6	1		6		2
CRP-036	450	3	4	360			165	265	3	1		4	1	

- Work shown on this sheet is a summary of work for the installation of the fiber-optic cable and CCTV installations that are shown on the cable routing plans (i.e. CRP sheets). Work to be done for traffic signals is shown separately on the signal designs and the "Summary of Work by Intersection" sheets in Volume III of III.
- The items listed above are for informational purposes only and represent work that is necessary to complete the project and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.

Plans Prepared By:



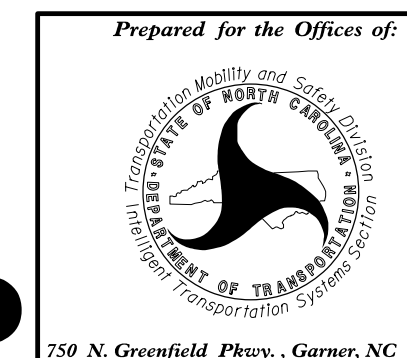
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 Cary, NC 27518
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<p style="text-align: center;">Prepared for the Offices of:</p>  <p style="text-align: center;">Elizabeth City Signal System Summary of Work by Cable Routing Plans (sheet 1 of 4)</p> <p style="text-align: center;">Division 1 Pasquotank County Elizabeth City</p> <p>PLAN DATE: April 2018 REVIEWED BY: RD Lawton</p> <p>PREPARED BY: DJ White REVIEWED BY: LW Moon</p> <p style="text-align: center;">N. T. S.</p>	<p style="text-align: center;">SEAL</p>  <p style="text-align: center;">Lisa M. Moon ENGINEER SEAL 022516</p> <p style="text-align: right;">DocuSigned by: Lisa M. Moon 9/20/2018</p> <p style="text-align: right;">DATE</p> <p style="text-align: right;">CADD Filename:</p>

SUMMARY OF WORK BY CABLE ROUTING PLANS

CABLE ROUTING SHEET NUMBER	MESSENGER CABLE (1/4")	BOND MESSENGER CABLE	BOND RISER	TRACER WIRE	UNDERGROUND CONDUIT (1 CONDUIT, 1 INCH)	UNDERGROUND CONDUIT (1 CONDUIT, 2 INCH)	UNDERGROUND CONDUIT (2 CONDUIT, 2 INCH)	DIRECTIONAL DRILL (2 CONDUIT, 2 INCH)	JUNCTION BOX (OVER-SIZED)	JUNCTION BOX (SPECIAL-SIZED)	REMOVE EXISTING JUNCTION BOX	DELINEATOR MARKER	JUNCTION BOX MARKER	MOLDABLE DUCT SEAL
	LF	EA	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA
CRP-037	515	2	2	10			30		2		1		2	
CRP-038	180	1	1	480		195	50		1			2		3
CRP-039	445	1	1	700				205	1			1	1	
CRP-040	1,320	1												
CRP-041	1,380		2											
CRP-042								700		1		1		
CRP-043				1,415			1,015	400	2				2	
CRP-044				1,435				1,315	180	2	1	1		
CRP-045				1,600		10	1,295	285	1	1		2	1	1
CRP-046				1,445				1,445	1			1		
CRP-047				1,445				1,445	1			1	1	
CRP-048				1,445				1,445	2			1	1	
CRP-049				1,445			1,325	120	2			1	1	
CRP-050				1,420			1,330	230	4	1	1			
CRP-051				1,355			850	510	3			1		
CRP-052				1,380			1,380		1			1		
CRP-053				1,565			920	645	4			1		
CRP-054				1,230			60	1,170	3			2	1	
CRP-055	892	1		297			242	102	3			2	1	4
CRP-056	885			556			270	261	3			2	1	4
CRP-057	1,410													
CRP-058	716	1	2	866	30		866		2			1	1	3
CRP-059				1,450			708	742	3			1	2	3
CRP-060	255		1	1,424	20		785	628	4	1		4	1	6
CRP-061				1,040			877	163	3			1	2	3
CRP-062	195		1	744	10		640	85	1	1		1	1	3
CRP-063				1,190			542	655	3			1	2	3
CRP-064	860	2	2	720			359	386	3	1		2	2	6
CRP-065	1,420	1												
CRP-066	1,180	2	2	355			265	95	3			3		3
CRP-067	1,275	1	1	180			15	165	1			1		1
CRP-068	1,000	2	2	510	20		200	330	1	1		1	1	3
CRP-069	1,255	1	1	20			20							1
Total	25,058	66	51	44,647	95	275	23,703	18,845	114	15	2	67	46	63

- Work shown on this sheet is a summary of work for the installation of the fiber-optic cable and CCTV installations that are shown on the cable routing plans (i.e. CRP sheets). Work to be done for traffic signals is shown separately on the signal designs and the "Summary of Work by Intersection" sheets in Volume III of III.
- The items listed above are for informational purposes only and represent work that is necessary to complete the project and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.



Prepared for the Offices of:
 Elizabeth City Signal System
 Summary of Work by
 Cable Routing Plans
 (sheet 2 of 4)
 Division 1 Pasquotank County Elizabeth City
 PLAN DATE: April 2018 REVIEWED BY: RD Lawton
 PREPARED BY: DJ White REVIEWED BY: LW Moon
 REVISIONS: _____ INIT. DATE _____
 N. T. S.

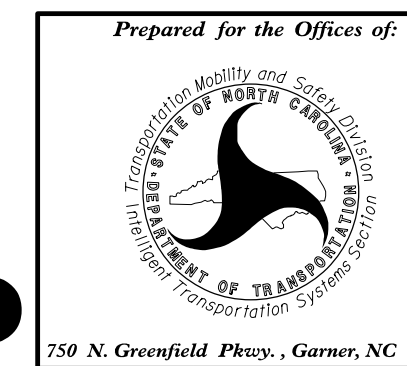
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 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 LISA M. MOON
 022516
 DocuSigned by:
 Lisa Moon
 1/16/2019
 DATE
 CADD Filename:

SUMMARY OF WORK BY CABLE ROUTING PLANS

CABLE ROUTING SHEET NUMBER	STANDARD GUY ASSEMBLY	AERIAL GUY ASSEMBLY	SIDEWALK GUY ASSEMBLY	COMMUNICATIONS CABLE (12-FIBER)	COMMUNICATIONS CABLE (48-FIBER)	DROP CABLE (12-fiber)	HAND LASH AND INSTALL AERIAL CABLE PROTECTOR	SPLICE ENCLOSURE	INTERCONNECT CENTER	ETHERNET EDGE SWITCH	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	REMOVE EXISTING COMMUNICATIONS CABLE	INSTALL CCTV ASSEMBLY	ETHERNET CABLE	1" RISER WITH WEATHERHEAD FOR ETHERNET CABLE	2" RISER WITH HEAT SHRINK TUBING	HEAT SHRINK TUBING KIT
	EA	EA	EA	LF	LF	LF	LF	EA	EA	EA	LF	LF	EA	LF	EA	EA	EA
CRP-003				665		235		1	1	1	560						1
CRP-004				1,520													
CRP-005	4			2,730		570		1	1	1			1	325	1	2	
CRP-006	1			645		200		1	1	1						1	
CRP-007	1			1,530												1	
CRP-008				910	2,142	565		1	1	1	245		1	110			2
CRP-009					1,205	90		1	1	1		370					
CRP-010					1,460	105		1	1	1		380					
CRP-011	3				1,590	225		1	1	1			1	130	1		1
CRP-012					1,985	400		1	1	1			1	60	1	1	
CRP-013					1,520												
CRP-014					1,350												
CRP-015	1				1,750						555					2	
CRP-016	3				1,650	265		1	1	1	605	65	1	185	1	2	
CRP-017					1,465	105		1	1	1	95	1,327					
CRP-018					1,795	95		1	1	1	1,425						
CRP-019	1				1,705	245		1	1	1	85					1	1
CRP-020	2				1,620	205		1	1	1			1	95	1		1
CRP-021					1,550	240		1	1	1							1
CRP-022	1				1,595						1,175					1	
CRP-023					1,900	105		1	1	1	860		1	295	1		
CRP-024					1,515												
CRP-025	1				1,615											1	
CRP-026					1,550												
CRP-027					1,550												
CRP-028	3				1,985											1	
CRP-029	1			1,485		240		1	1	1	575					1	1
CRP-030				600	2,120	390		1	1	1	2,200		1	250	1		
CRP-031	1				1,630	810	75	1	2	2	190					1	2
CRP-032	3				1,680	410		1	1	1	935		1	145	1	2	
CRP-033					1,470	375		1	1	1	248		1	40	1	1	
CRP-034	1		3		1,515						465						
CRP-035	3			1,330	820	545		2	2	2	730		1	250	1	3	
CRP-036	5			950		525		2	2	2	185		1	140	1	3	

- Work shown on this sheet is a summary of work for the installation of the fiber-optic cable and CCTV installations that are shown on the cable routing plans (i.e. CRP sheets). Work to be done for traffic signals is shown separately on the signal designs and the "Summary of Work by Intersection" sheets in Volume III of III.
- The items listed above are for informational purposes only and represent work that is necessary to complete the project and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.



Elizabeth City Signal System
Summary of Work by
Cable Routing Plans
(sheet 3 of 4)

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: RD Lawton

PREPARED BY: DJ White REVIEWED BY: LW Moon



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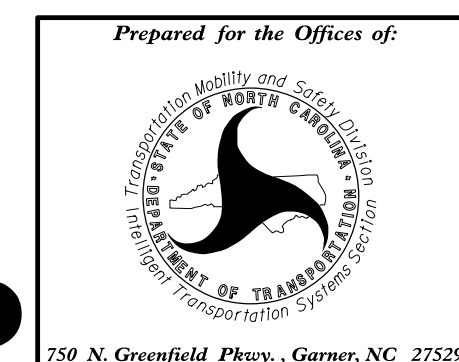
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Lisa M. Moon 9/20/2018
SEAL 022516
DATE
CADD Filename:

SUMMARY OF WORK BY CABLE ROUTING PLANS

CABLE ROUTING SHEET NUMBER	STANDARD GUY ASSEMBLY	AERIAL GUY ASSEMBLY	SIDEWALK GUY ASSEMBLY	COMMUNICATIONS CABLE (12-FIBER)	COMMUNICATIONS CABLE (48-FIBER)	DROP CABLE (12-fiber)	HAND LASH AND INSTALL AERIAL CABLE PROTECTOR	SPLICE ENCLOSURE	INTERCONNECT CENTER	ETHERNET EDGE SWITCH	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	REMOVE EXISTING COMMUNICATIONS CABLE	INSTALL CCTV ASSEMBLY	ETHERNET CABLE	1" RISER WITH WEATHERHEAD FOR ETHERNET CABLE	2" RISER WITH HEAT SHRINK TUBING	HEAT SHRINK TUBING KIT
	EA	EA	EA	LF	LF	LF	LF	EA	EA	EA	LF	LF	EA	LF	EA	EA	EA
CRP-037	1			1,400					3	3						2	
CRP-038	1			1,020	725				2	2			1	85			
CRP-039	1				1,185												
CRP-040					1,420												
CRP-041	2		1		1,870	520		1	2	2			1	180	1	2	
CRP-042					750			1									
CRP-043					1,515												
CRP-044					1,635	190		1	1	1			1	70			
CRP-045					1,495	215		1	1	1							
CRP-046					1,495												
CRP-047					1,495												
CRP-048					1,545												
CRP-049					1,530												
CRP-050					1,600	170		1	1	1			1	210			
CRP-051					1,505												
CRP-052					1,435												
CRP-053					1,725												
CRP-054					1,360												
CRP-055	3				1,986	232		1	1	1	43					1	1
CRP-056	1	1			1,676	180		1	1	1						1	1
CRP-057					1,510												
CRP-058	3				1,653	185		1	1	1			1	225	1	1	
CRP-059					1,557												
CRP-060	4				1,640	95		1	1	1			1	327	1		
CRP-061					1,150												
CRP-062	3				850	100		1	1	1			1	260	1		
CRP-063					1,320												
CRP-064	2				1,829	390		2	2	2						2	
CRP-065					1,520												
CRP-066	2				1,935											2	
CRP-067	1				1,627											1	
CRP-068	3				1,530	100		1	1	1			1	205	1	1	
CRP-069			1		1,529	175		1	1	1						1	
Total	62	1	5	14,785	91,329	9,497	75	38	44	44	11,176	2,142	20	3,587	16	38	12

- Work shown on this sheet is a summary of work for the installation of the fiber-optic cable and CCTV installations that are shown on the cable routing plans (i.e. CRP sheets). Work to be done for traffic signals is shown separately on the signal designs and the "Summary of Work by Intersection" sheets in Volume III of III.
- The items listed above are for informational purposes only and represent work that is necessary to complete the project and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.



Elizabeth City Signal System
Summary of Work by
Cable Routing Plans
(sheet 4 of 4)

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: RD Lawton

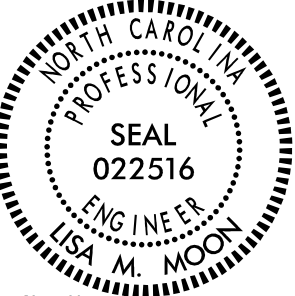
PREPARED BY: DJ White REVIEWED BY: LW Moon

REVISIONS	INIT.	DATE

N. T. S.

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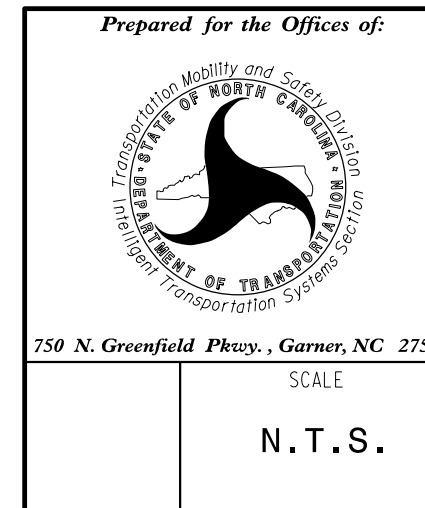
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Lisa Moon 1/16/2019
DATE

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SHEET REFERENCE	CCTV CAMERA NUMBER	SIGNAL INVENTORY #	LOCATION	QUADRANT	POLE TYPE	POLE LENGTH	CAMERA STATUS	CAMERA MOUNTING HEIGHT (FT)
CRP-037	CCTV-1	01-0010	US 158 on bridge tender's house (control building)	N/A	N/A	N/A	Existing	existing
CRP-005	CCTV-2	01-0019	US 17 (S Hughes Blvd) at US 17 BUS. (W Ehringhaus St)/SR 1145 (Oak Stump Rd)/ Shopping Center Entrance	NW	Wood	50'	New	35'
CRP-008	CCTV-3	01-0015	US 17 (Hughes Blvd) at NC 344 (Halstead Blvd)	South	Metal Strain Pole	Existing	New	with approval by Engineer
CRP-011	CCTV-4	01-0013	US 17 (N. Hughes Blvd) at SR 1309 (W. Main St)/W. Main St	West	Wood	50'	New	35'
CRP-012	CCTV-5	01-0020	US 17-US 158 (N. Hughes St) at US 158-NC 168 (W Elizabeth St)	NW	Wood	50'	New	35'
CRP-016	CCTV-6	01-0025	US 17-158 (Hughes Blvd) at US 17 Bus (Road St)/SR 1327 (Griggs St)	SE	Wood	50'	New	35'
CRP-020	CCTV-7	01-0712	US 17-158 at SR 1383 (College of the Albemarle Entrance)	SE	Wood	50'	New	35'
CRP-023	CCTV-8	01-0442	US 17-158 (N Road St) at SR 1346 (Culpepper Ln)/Fairway Terrace Dr	NW	Wood	50'	New	35'
CRP-030	CCTV-9	01-0014	US 17 Bus. (Ehringhaus St.) at NC 344 (Halstead Blvd.)	West	Wood	50'	New	35'
CRP-032	CCTV-10	01-0519	US 17 BUS. (Ehringhaus St) at Griffin St / Post Office Entrance	SW	Wood	50'	New	35'
CRP-033	CCTV-11	01-0022	US 17 Bus. (Ehringhaus St.) at Corsair Cir./Selden Street	NW	Wood	50'	New	35'
CRP-035	CCTV-12	01-0001	US 17 Bus. (Ehringhaus St) at US 17 Bus. / (S. Road St)	NW	Wood	50'	New	35'
CRP-036	CCTV-13	01-0024	SR 1268 (Water St)/SR 1164 (Southern Ave) at SR 1268 (Ehringhaus St)	Median	Wood	50'	New	35'
CRP-038	CCTV-14	01-0004	US 158 (Elizabeth St.) at US 17 Bus. (N. Road St)	SE	Metal pole with mastarm	Existing	New	with approval by Engineer
CRP-041	CCTV-15	01-0005	US 17 Bus. (Road St) at Main St	SE	Wood	Existing	New	with approval by Engineer
CRP-044	CCTV-16	01-0747	NC 344 (Halstead Blvd) at Wal-Mart Entrance /Tanglewood Parkway South	NW	Metal pole with mastarm	Existing	New	with approval by Engineer
CRP-050	CCTV-17	01-0749	NC 344 (Halstead Blvd Blvd) at SR 1307 (Forest Park Rd)	SE	Metal pole with mastarm	Existing	New	with approval by Engineer
CRP-058	CCTV-18	01-0336	NC344 (Halstead Boulevard) at SR 1139 (Roanoke Avenue/Body Road)	SW	Wood	50'	New	35'
CRP-060	CCTV-19	01-0217	NC 344 (Halstead Boulevard) at SR 1101 (Peartree Road)	NW	Wood	50'	New	35'
CRP-062	CCTV-20	01-0219	NC 344 (Halstead Boulevard) at SR 1269 (Herrington Road)	NW	Wood	50'	New	35'
CRP-068	CCTV-21	01-0408	NC 344 (Weeksville Road) at SR 1164 (River Road) / SR 1169 (Pitts Chapel Road)	SE	Wood	50'	New	35'

NOTES:
 1. All poles are dual use for signal and CCTV. Poles are existing or shall be installed by signal contractor.
 2. For existing metal poles with mastarms, get approval from Engineer on mounting height and drill new 1" diameter maximum hole for Ethernet cable. See Project Special Provisions for additional details

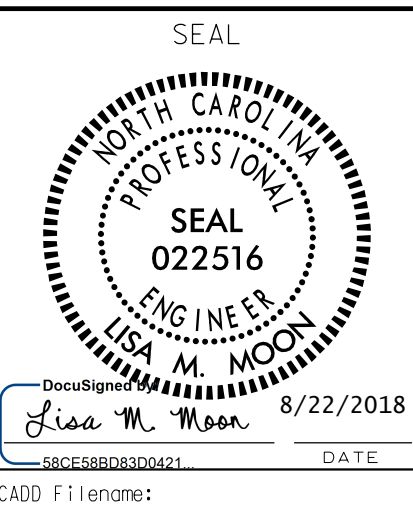
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Elizabeth City Signal System
 CCTV Installation Summary

Division 1 Pasquotank County Elizabeth City
 PLAN DATE: April 2018 REVIEWED BY: LM Moon
 PREPARED BY: RD Lawton REVIEWED BY:

REVISIONS	INIT.	DATE





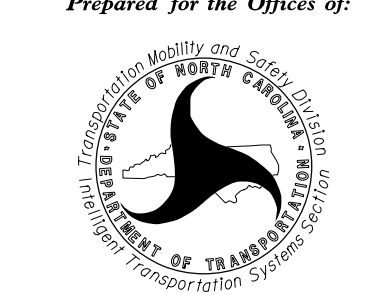
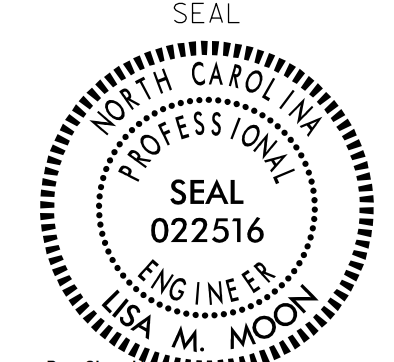
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Plans Prepared By:



DRMP, Inc.
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Cary, NC 27518
NC License No. C-2213 (919) 650-1038

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 Prepared for the Offices of: N.T.S.	Elizabeth City Signal System Cable Routing Plans Key Sheet		 SEAL 022516 LISA M. MOON ENGINEER
	Division 1 Pasquotank County Elizabeth City PLAN DATE: April 2018 REVIEWED BY: LM Moon PREPARED BY: RD Lawton REVIEWED BY:		
REVISIONS _____ _____ _____		INIT. DATE _____ _____ _____	8/22/2018 DATE _____

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LEGEND

	NEW FIBER OPTIC COMMUNICATIONS CABLE
	NEW ETHERNET CABLE
	EXISTING COMMUNICATIONS CABLE
	EXISTING COMMUNICATIONS CABLE TO BE REMOVED
	NEW AND EXISTING AERIAL GUY ASSEMBLY
	NEW CONDUIT
	EXISTING CONDUIT
	NEW DIRECTIONAL DRILLED CONDUIT
	NEW BORED AND JACKED CONDUIT
	EXISTING RAILROAD TRACK
	NEW WOOD POLE
	EXISTING WOOD POLE
	NEW METAL POLE
	EXISTING METAL POLE
	NEW STANDARD GUY ASSEMBLY
	EXISTING STANDARD GUY ASSEMBLY

	NEW SIDEWALK GUY ASSEMBLY
	EXISTING SIDEWALK GUY ASSEMBLY
	NEW CONTROLLER AND CABINET
	EXISTING CONTROLLER AND CABINET
	NEW AERIAL SPLICE ENCLOSURE
	EXISTING AERIAL SPLICE ENCLOSURE
	NEW UNDERGROUND SPLICE ENCLOSURE IN NEW SPECIAL-SIZED JUNCTION BOX
	NEW UNDERGROUND SPLICE ENCLOSURE IN EXISTING SPECIAL-SIZED JUNCTION BOX
	EXISTING UNDERGROUND SPLICE ENCLOSURE IN EXISTING SPECIAL-SIZED JUNCTION BOX
	NEW CABLE STORAGE RACKS (SNOW SHOES)
	EXISTING CABLE STORAGE RACKS (SNOW SHOES)
	NEW CCTV CAMERA ASSEMBLY
	EXISTING CCTV CAMERA ASSEMBLY

	EXISTING ELECTRICAL JUNCTION BOX
	NEW STANDARD JUNCTION BOX
	EXISTING STANDARD JUNCTION BOX
	NEW OVER-SIZED OR SPECIAL-SIZED JUNCTION BOX
	EXISTING OVER-SIZED OR SPECIAL-SIZED JUNCTION BOX
	NCDOT SIGNAL INVENTORY NUMBER
	CCTV CAMERA ID NUMBER
	EDGE OF PAVEMENT
	EDE OF LANE
	BACK OF CURB
	FACE OF CURB
	NEW SYSTEM DETECTOR
	EXISTING SYSTEM DETECTOR

AGUY	Aerial Guy
ARLT	Area Light
BOT	Bottom Attachment
BRKT	Bracket
BS	Backside Attachment
CATV	Cable Television (Charter Communications)
CAM	Camera Bracket
CCTV	Closed-Circuit Television
COMM	Communication Cable
CTL	Century Link
DGUY	Down Guy
DL	Drip Loop
DOM	Dominion Power
DRP	Drop
ECP	Elizabeth City Power
EXI	Existing Communications Cable
FOC / FO	Fiber Optic Cable
FS	Front Side Attachment
HOLIDAY	Holiday Circuit
LIC	Lead-In Cable (Detector)
LIRSR	Lead-in Riser
MSGR	Messenger
NCDOT	North Carolina Department of Transportation
NEUT	Neutral
OH	Overhead

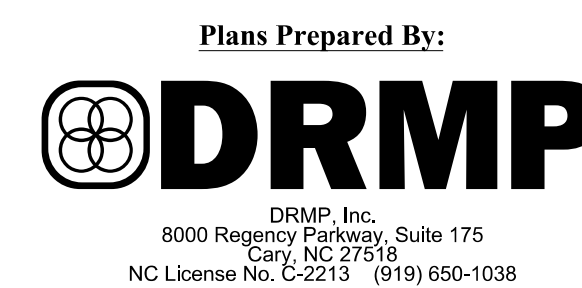
ABBREVIATION

OSS	Overhead Sign Span
OWS	Open Wire Secondary
PBRSR	Pushbutton Riser
PEDH RSR	Pedestrian Head Riser
PWR	Power
RECP	Receptical
RSR	Riser
SAME	Same Elevation /Attachment Height
SEC	Secondary Power
SGRSR	Signal Riser
SIG	Signal Span
SP	Signal Pole
SPRRSR	Spare Riser
SO	Standoff
STLT	Streetlight
SVRSR	Service Riser
SWGUY	Sidewalk Guy
TEL	Telephone (Century Link)
TFMR	Transformer
TOP	Top of Pole or Top Attachment
TRI	Triplex
UG	Underground
UNK	Unknown Utility Owner
X ANY	Crossing Line, where "Any" is the abbreviation for the overhead line that is crossing exist/prop. cable route

GENERAL NOTES

- THESE PLANS WERE PREPARED FROM INVENTORIES AND FIELD DATA COLLECTED DURING DECEMBER 2017 THRU APRIL 2018. ACTUAL CONDITIONS IN THE FIELD AT THE TIME OF CONSTRUCTION MAY BE DIFFERENT FROM THOSE SHOWN IN THE PLANS.
- THE FIELD LOCATION OF ANY ITEM TO BE INSTALLED AS PART OF THIS PROJECT SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- NEW TRAFFIC SIGNAL CONTROLLER CABINETS ARE SPECIFIED ON THE SIGNAL PLANS.
- BURIED UTILITIES AND STRUCTURES: PIPELINES, STROM SEWERS, POWER CABLES, UTILITY CABLES, BASEMENTS, AND OTHER PUBLICLY AND PRIVATELY OWNED UNDERGROUND OBSTRUCTIONS EXIST ADJACENT TO AND WITHIN THE STREET RIGHT-OF-WAY WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT. INVESTIGATE THE LOCATION OF SUCH BURIED UTILITIES AND STRUCTURES WITH PUBLIC AND PRIVATE UTILITIES. THERE IS PRESSURIZED GAS LINES WITHIN THE PROJECT LIMITS. COORDINATE WITH THE GAS COMPANY FOR LOCATIONS. CONTACT THE GAS COMPANY TWO WEEKS PRIOR TO CONSTRUCTION IN THESE AREAS. PIEDMONT NATURAL GAS, 919-920-5310.
- THE PLAN SHEETS HAVE BEEN DEVELOPED AS CLOSE TO SCALE AS PRACTICAL. HOWEVER, ACTUAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR APPLING THE WORK SHOWN.
- THE ROADWAY STANDARD DRAWING AND THE DETAILS PROVIDED IN THIS PLAN SET SHALL ALL APPLY TO ALL WORK REQUIRED IN THIS PROJECT, WHETHER A PARTICULAR DETAIL IS SPECIFICALLY REFERENCED TO A WORK ITEM OF NOT. IN THE EVENT OF A CONFLICT, THE ORDER OF PRECEDENCE SHALL BE: THE PROJECT SPECIAL PROVISIONS, THE PLAN SET - INCLUDING DETAILS - SUPPLEMENTAL SPECIFICATIONS, THE STANDARD SPECIFICATIONS, AND THEN THE ROADWAY STANDARD DRAWINGS. THE CONTRACOR SHALL BE RESPONSIBLE FOR APPLING THE PROPER DETAILS.
- ANY OF THE CONTRACTOR'S WORK ACTIVITIES WHICH IMPACT ANY UTILITY FACILITY SHALL BE COORDINATED WITH THE OWNER OF THE AFFECTED UTILITIES. THE CONTRACTOR SHALL FOLLOW ANY AND ALL WORK PROCEDURES THE UTILITY OWNER MAY REQUIRE.
- ALL WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED TO BE PERFORMED BY OTHERS.
- THIS AREA HAS BEEN DETERMINED TO CONTAIN PROPERTIES WITH DOCUMENTED HISTORIC SIGNIFICANCE. IF IT IS NECESSARY TO DEVIATE FROM THESE PLANS IN THIS AREA, ALERT THE ENGINEER TO CONTACT THE HISTORIC ARCHITECTURE GROUP OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION FOR AN EFFECTS DETERMINATION BEFORE PROCEEDING.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING WORK WITH THE NCDOT STIP U-5939 PROJECT ON US 17 AT US 17 BUS. AND OAK STUMP ROAD AND STIP U-5940 ON US 17 (HUGHES BLVD) FROM CHURCH ST TO N ROAD ST THROUGH U-5942 ENGINEER.

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Prepared for the Offices of:

750 N. Greenfield Pkwy., Garner, NC 27529

SCALE
N.T.S.

Elizabeth City Signal System Legend/General Notes/ Abbreviations	
Division 1 Pasquotank County Elizabeth City	
PLAN DATE: April 2018	REVIEWED BY: RD Lawton
PREPARED BY: DJ White	REVIEWED BY: LM Moon
REVISIONS	INIT. DATE

SEAL

DocuSigned by:
Lisa M. Moon 9/20/2018

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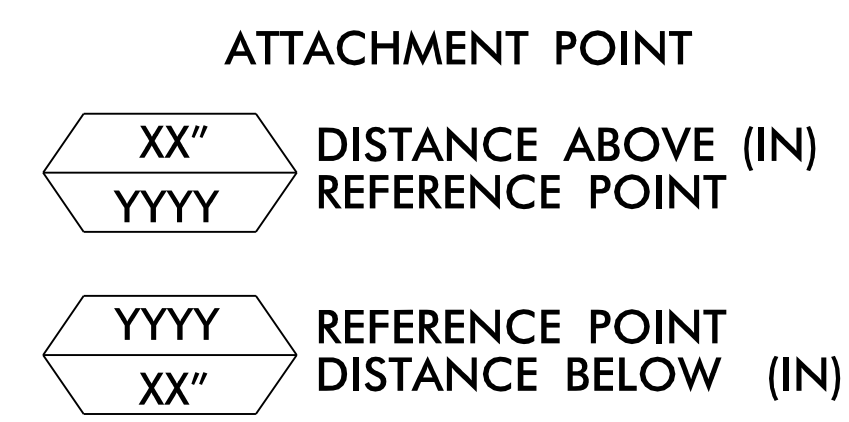
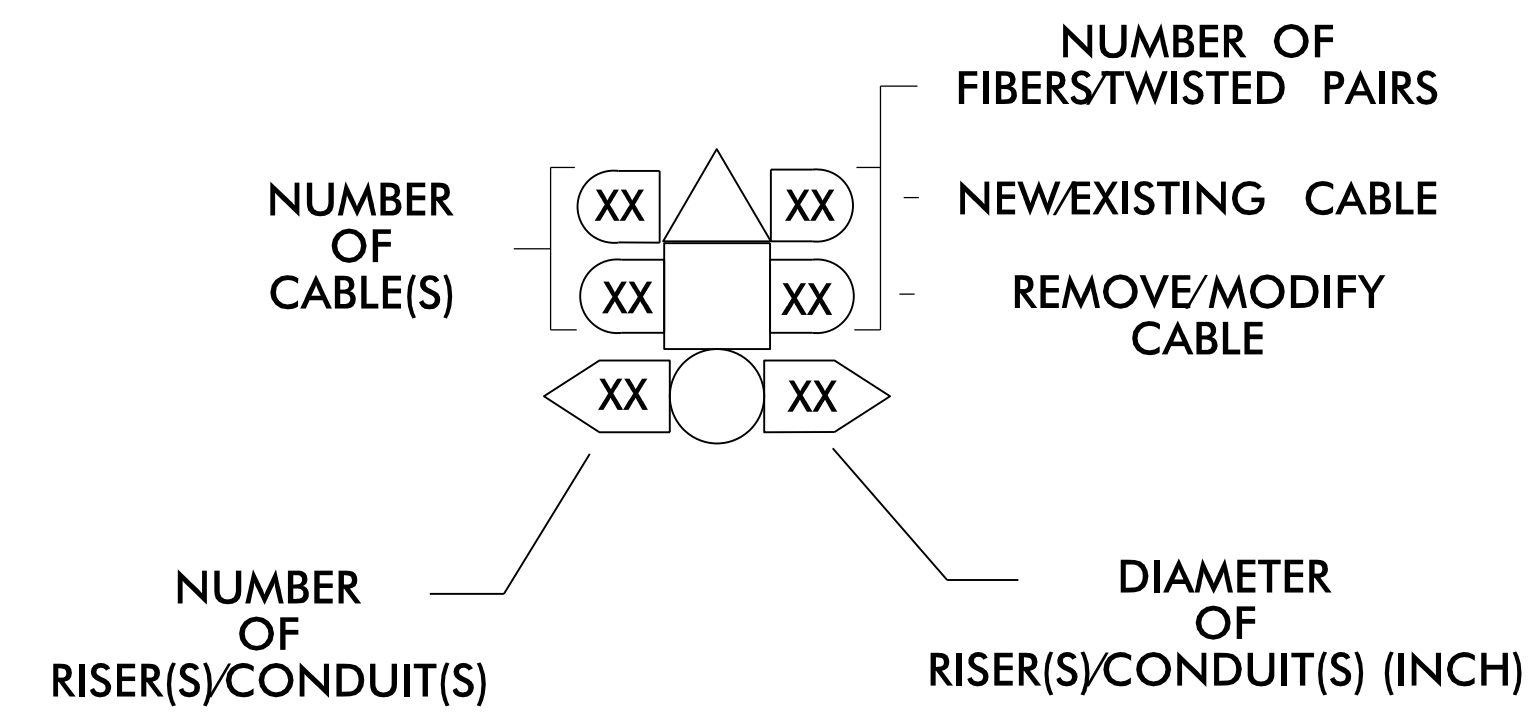
- 1 NOT USED
- 2 NOT USED
- 3 INSTALL ETHERNET CABLE
- 4 INSTALL SMFO CABLE
- 5 NOT USED
- 6 INSTALL FIBER OPTIC DROP CABLE
- 7 INSTALL TRACER WIRE
- 8 TRENCH
- 9 INSTALL PVC CONDUIT
- 10 INSTALL RIGID, GALVANIZED STEEL CONDUIT
- 11 INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD
- 12 INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL
- 13 INSTALL HEAT SHRINK TUBING RETROFIT KIT
- 14A NOT USED
- 14B INSTALL POLYETHYLENE CONDUIT
- 15 DIRECTIONAL DRILL CONDUIT
- 16 NOT USED
- 17 INSTALL CABLE(S) IN EXISTING CONDUIT
- 18 INSTALL CABLE(S) IN NEW CONDUIT
- 19 INSTALL CABLE(S) IN EXISTING RISER
- 20 INSTALL CABLE(S) IN NEW RISER
- 21 INSTALL CABLE(S) IN EXISTING CONDUIT STUBOUTS
- 22 INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 23 INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 24 INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET
- 25 INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET
- 26A MODIFY EXISTING INTERCONNECT CENTERSPLICE ENCLOSURE
- 26B MODIFY/RELOCATE EXISTING FIBER OPTIC TRANSCEIVER
- 27 INSTALL NEW ETHERNET EDGE SWITCH IN CABINET
- 28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET
- 29 INSTALL UNDERGROUND SPLICE ENCLOSURE
- 30 INSTALL AERIAL SPLICE ENCLOSURE
- 31 NOT USED

- 32 NOT USED
- 33 NOT USED
- 34 NOT USED
- 35 NOT USED
- 36 INSTALL CCTV CAMERA ASSEMBLY
- 37 INSTALL CCTV CAMERA 50' WOOD POLE
- 38 NOT USED
- 39 INSTALL JUNCTION BOX
- 40A INSTALL OVERSIZED JUNCTION BOX
- 40B INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")
- 41 REMOVE EXISTING JUNCTION BOX
- 42 INSTALL WOOD POLE
- 43 NOT USED
- 44 INSTALL AERIAL GUY ASSEMBLY
- 45 INSTALL STANDARD GUY ASSEMBLY
- 46 INSTALL SIDEWALK GUY ASSEMBLY
- 47 INSTALL MESSENGER CABLE
- 48A REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE
- 48B REMOVE EXISTING COMMUNICATIONS CABLE
- 49 NOT USED
- 50 NOT USED
- 51 INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF EACH CABLE
- 52A INSTALL DELINEATOR MARKER
- 52B INSTALL JUNCTION BOX MARKER
- 53A STORE 30 FEET OF COMMUNICATIONS CABLE
- 53B STORE 50 FEET OF EACH COMMUNICATIONS CABLE
- 54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE
- 55 LASH CABLE(S) TO EXISTING MESSENGER CABLE
- 56 LASH CABLE(S) TO NEW MESSENGER CABLE
- 57 HANDLASH AND INSTALL AERIAL CABLE PROTECTOR
- 58 NOT USED
- 59 BOND TRACER WIRE TO EQUIPMENT GROUND BUS
- 60 DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS
- 61 BOND RISER AND MESSENGER CABLE TO POLE GROUND
- 62 BOND RISER TO POLE GROUND

- 63 BOND MESSENGER CABLE TO POLE GROUND
- 64 INSTALL MOLDABLE DUCT SEAL
- 65 SLACK SPAN

CONSTRUCTION NOTE SYMBOLOGY KEY

- XX INDICATES NUMBER OF CABLES, LOOPS, ETC.
- XX INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC.
- XX INDICATES NUMBER OF RISER(S)/CONDUIT(S)
- XX INDICATES DIAMETER OF RISER(S)/CONDUIT(S) (INCH)

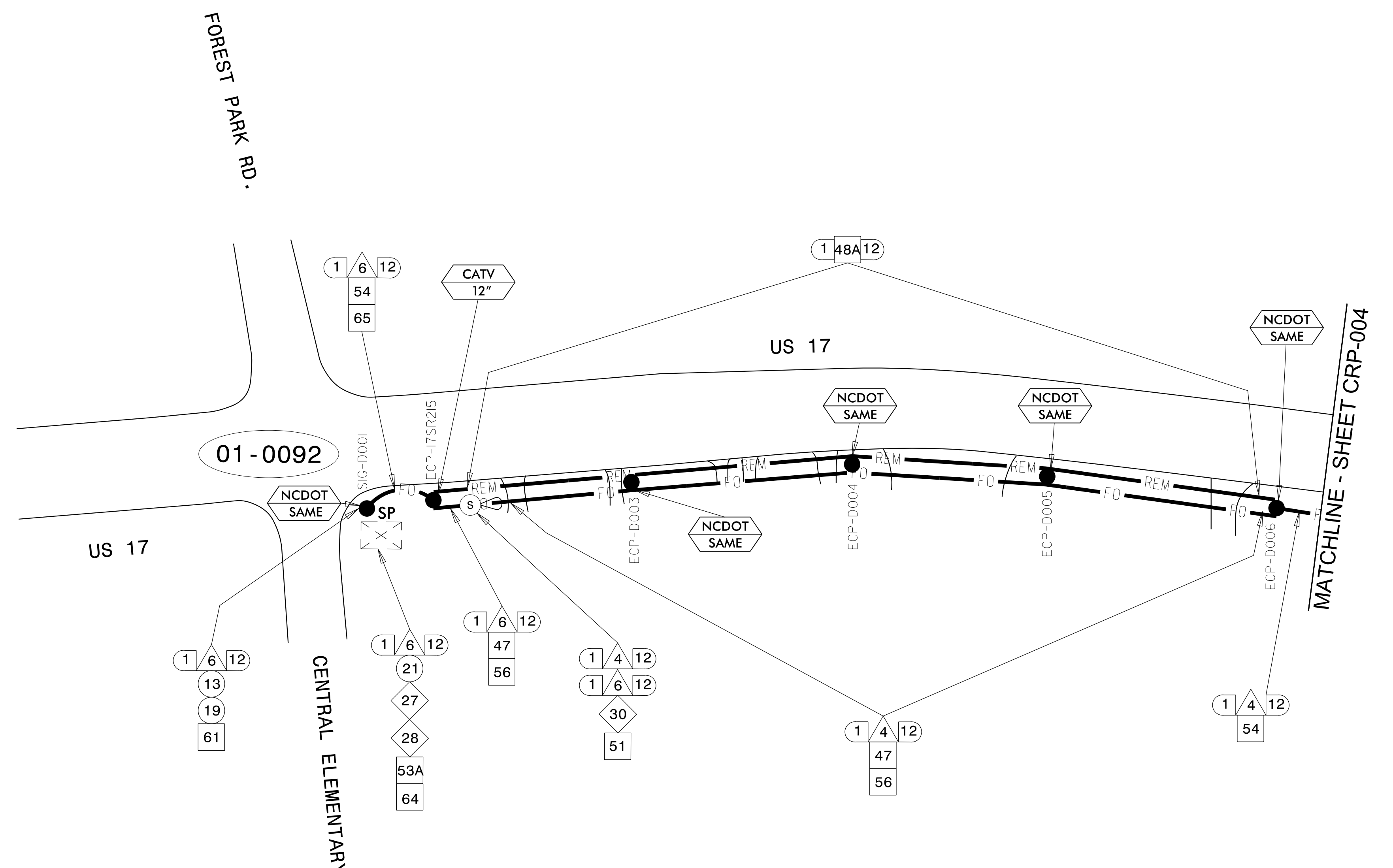


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	Elizabeth City Signal System Construction Notes	
	Division 1 Pasquotank County Elizabeth City PLAN DATE: April 2018 REVIEWED BY: LM Moon PREPARED BY: RD Lawton REVIEWED BY:	SCALE: N.T.S. REVISIONS: _____ INIT. DATE: _____
CADD Filename: _____		DocuSigned by: Lisa M. Moon 8/22/2018



NOTES:
 1. UNLESS OTHERWISE NOTED:
 -OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 -ATTACH NEW MESSENGER CABLE 40" BELOW POWER
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2	NOT USED	16	NOT USED	30	INSTALL AERIAL SPLICE ENCLOSURE	44	INSTALL AERIAL GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE
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5	NOT USED	19	INSTALL CABLE(S) IN EXISTING RISER	33	NOT USED	47	INSTALL MESSENGER CABLE	59	BOND TRACER WIRE TO EQUIPMENT GROUND BUS
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7	INSTALL TRACER WIRE	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUBOUTS	35	NOT USED	48B	REMOVE EXISTING COMMUNICATIONS CABLE	61	BOND RISER AND MESSENGER CABLE TO POLE GROUND
8	TRENCH	22	INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	36	INSTALL CCTV CAMERA ASSEMBLY	49	NOT USED	62	BOND RISER TO POLE GROUND
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12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	26A	MODIFY EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	52B	INSTALL JUNCTION BOX MARKER		
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REMOVE/MODIFY CABLE

ATTACHMENT POINT

DISTANCE ABOVE (IN) REFERENCE POINT

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

Plans Prepared By:

DRMP, Inc.
8000 Regency Parkway, Suite 175
Cary, NC 27513
NC License No. C-2213 (919) 650-1038

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Prepared for the Offices of:

750 N. Greenfield Pkwy., Garner, NC 27529

SCALE
0 50
1" = 50'

Elizabeth City Signal System Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

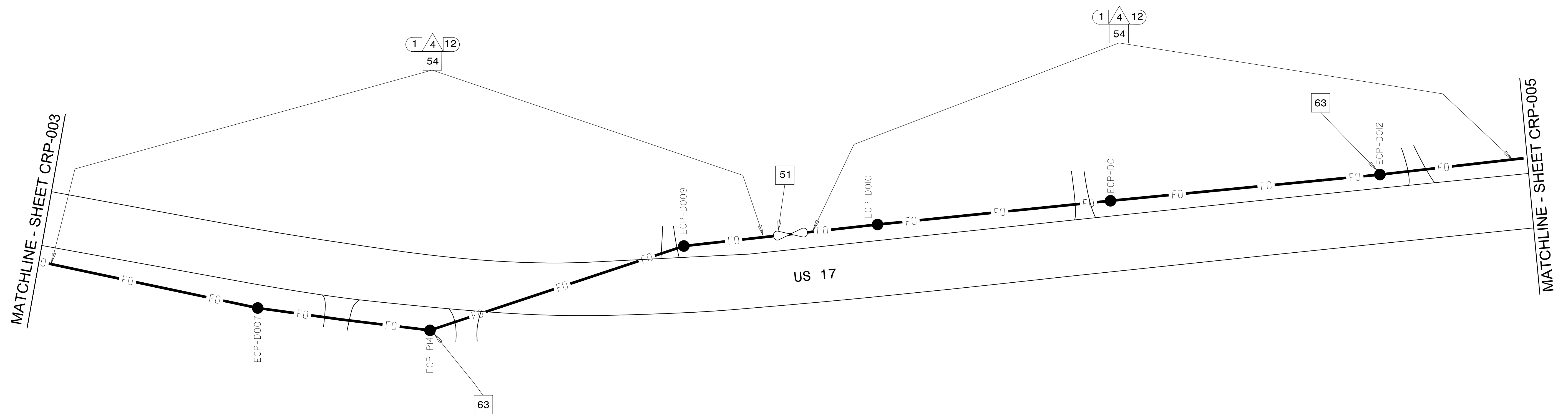
PREPARED BY: RD Lawton REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL

DocuSigned by:
Lisa M. Moon
8/22/2018
CADD Filename: CRP-003.dgn

22-AUG-2018 10:54 AM \\s01\cadd\proj\2018\08\003\003.dgn



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Prepared for the Offices of:

Elizabeth City Signal System Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

REVISIONS: INIT. DATE

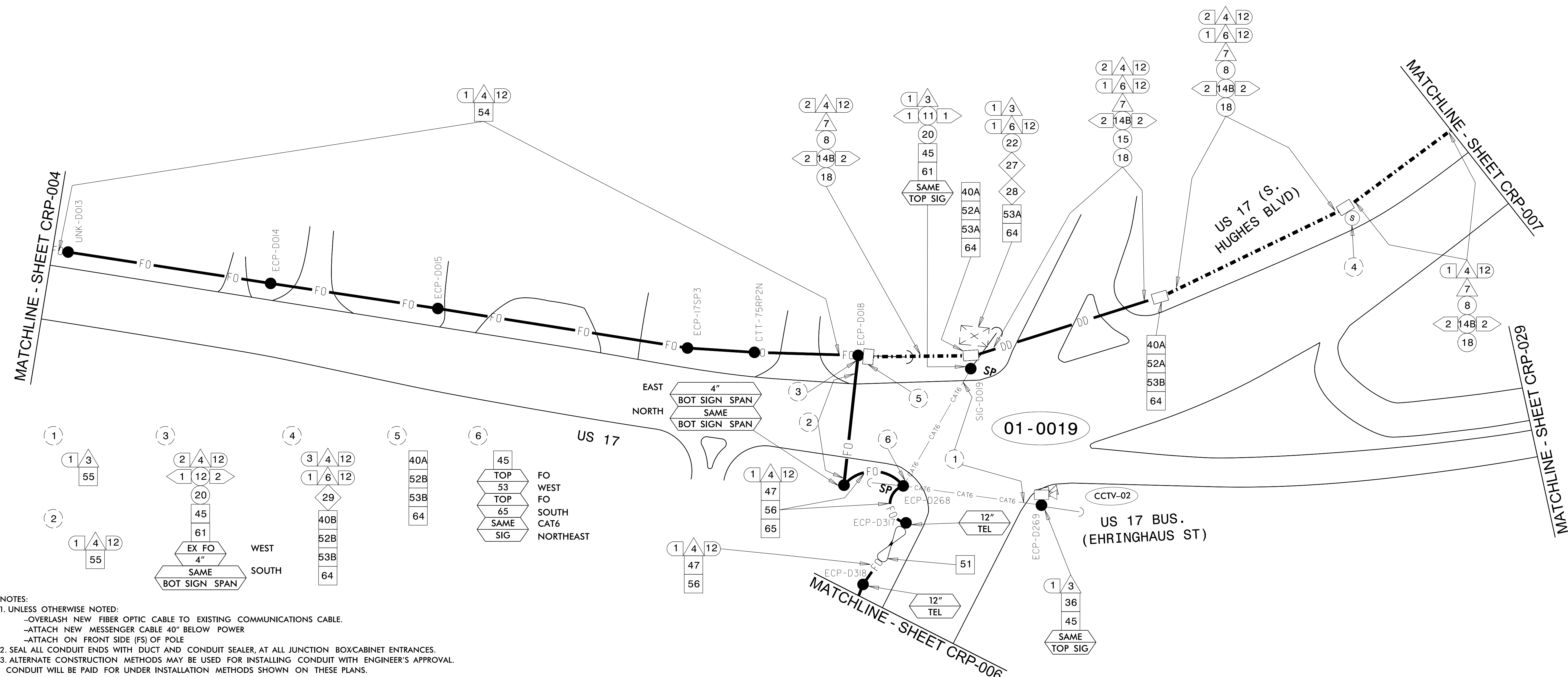
750 N. Greenfield Pkwy., Garner, NC 27529

SCALE: 0 50
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SEAL: LISA M. MOON, ENGINEER, 022516, 8/22/2018

CADD File name: CRP-004.dgn

22-AUG-2018 09:54
 C:\Users\rdlawton\OneDrive\Documents\Projects\CRP-004.dgn



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Prepared for the Offices of:

Elizabeth City Signal System Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

REVISIONS: INIT. DATE

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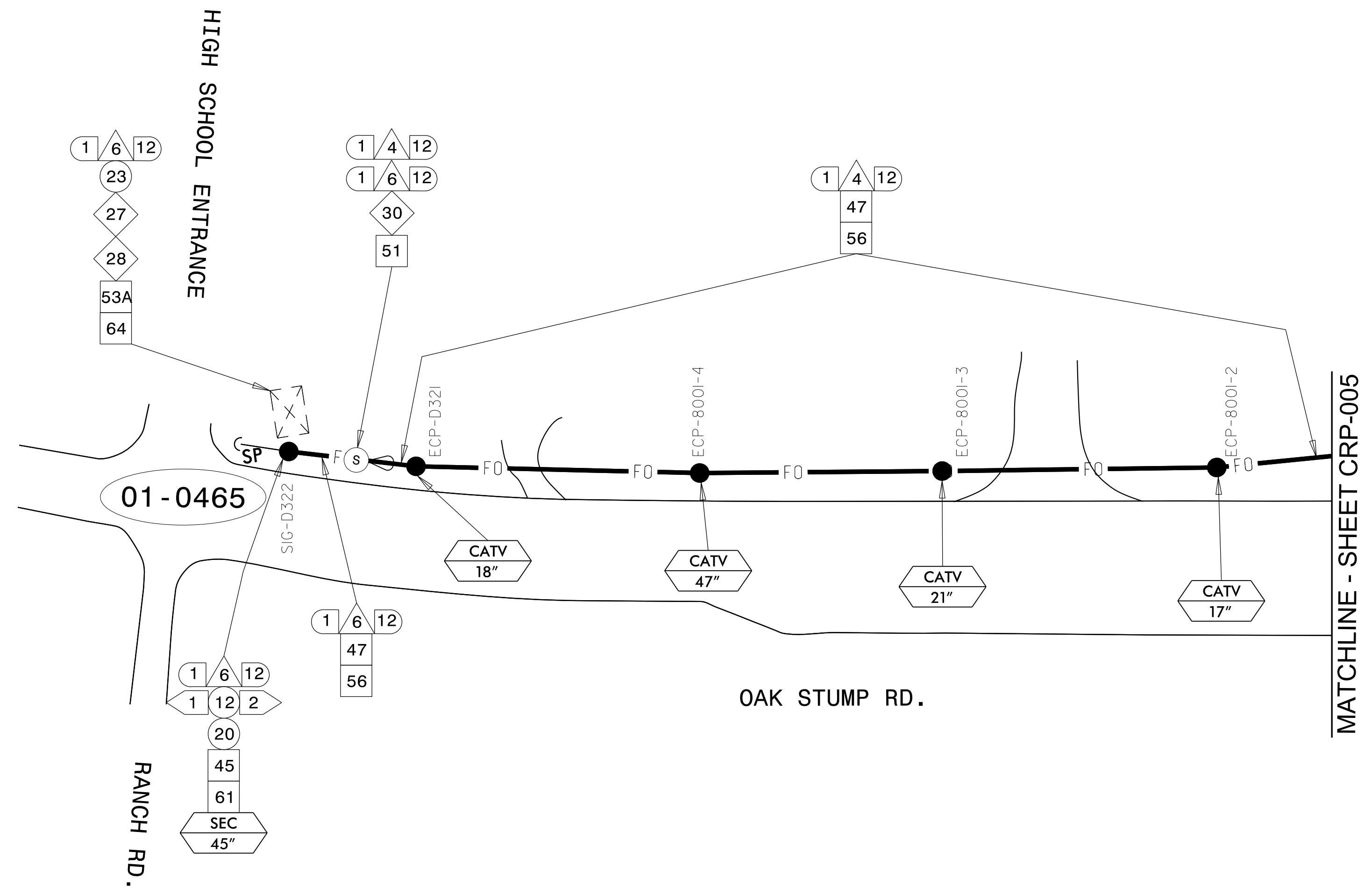
SCALE: 0 50

1" = 50'

8/22/2018

DocuSigned by: Lisa M. Moon

CADD File name: CRP-005.dgn



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Elizabeth City Signal System Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

SEAL

SEAL 022516

ENGINEER LISA M. MOON

DocuSigned by: Lisa M. Moon 8/22/2018

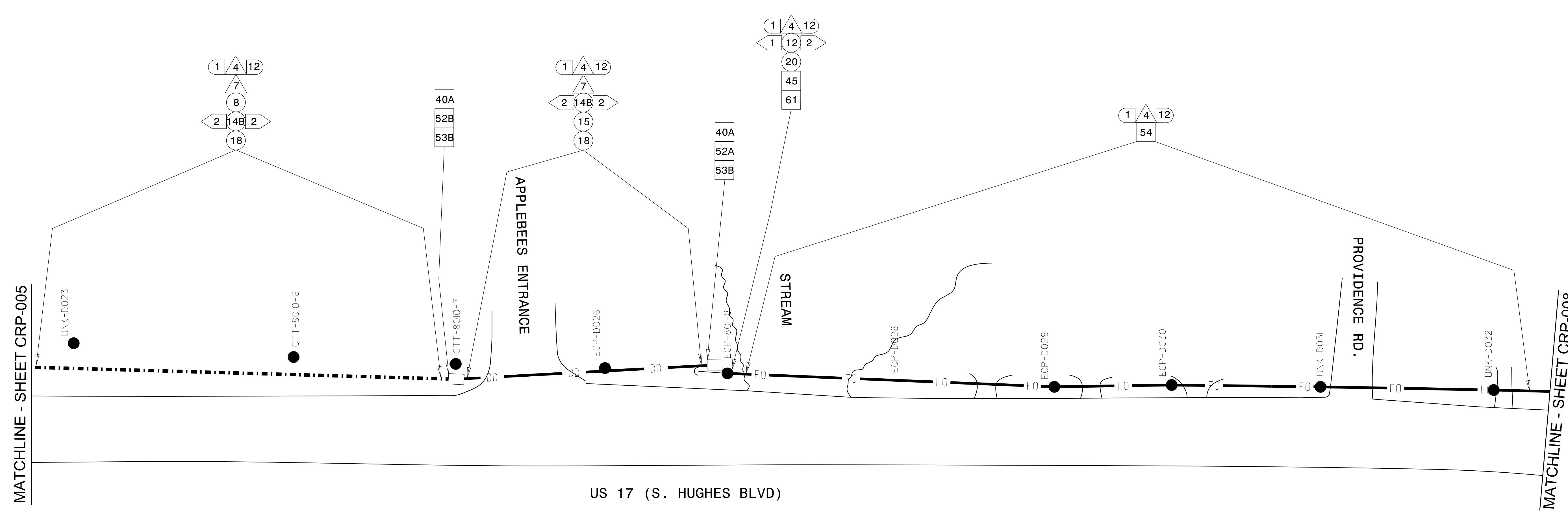
CADD File name: CRP-006.dgn

SCALE

0 50

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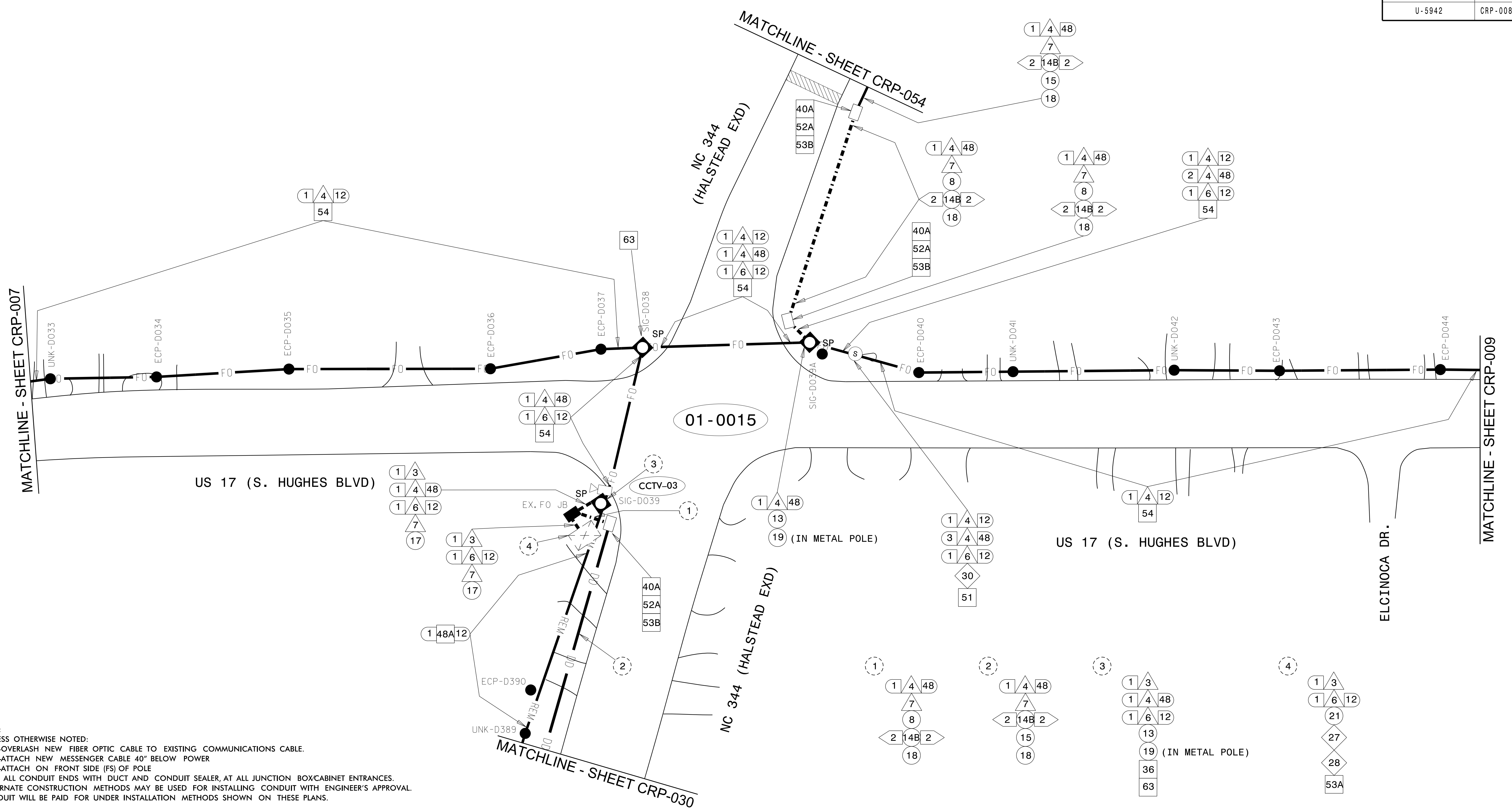
PROFESSIONAL ENGINEER

SEAL 022516

DocuSigned by:
Lisa M. Moon 8/22/2018

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CADD File name: CRP-007.dgn



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 -ATTACH NEW MESSENGER CABLE 40" BELOW POWER
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 2. SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER, AT ALL JUNCTION BOX/CABINET ENTRANCES.
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REMOVE/MODIFY CABLE

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

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DISTANCE BELOW (IN) REFERENCE POINT

Plans Prepared By:

DRMP

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Prepared for the Offices of:

Elizabeth City Signal System Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

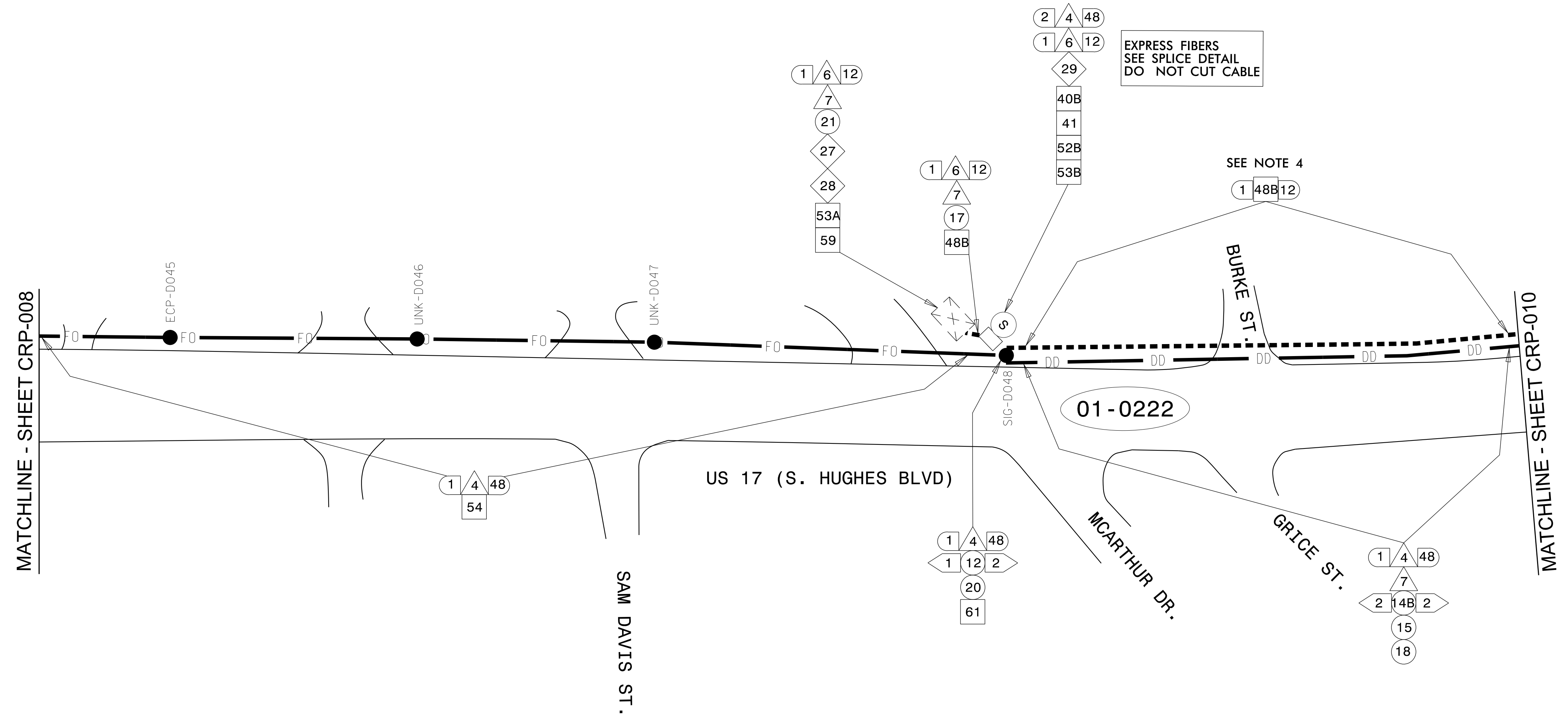
PREPARED BY: RD Lawton REVIEWED BY:

SCALE: 1" = 50'

SEAL: LISA M. MOON, ENGINEER, 022516

8/22/2018

CRP-008.dgn



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EXPRESS FIBERS
SEE SPLICE DETAIL
DO NOT CUT CABLE

SEE NOTE 4

01-0222

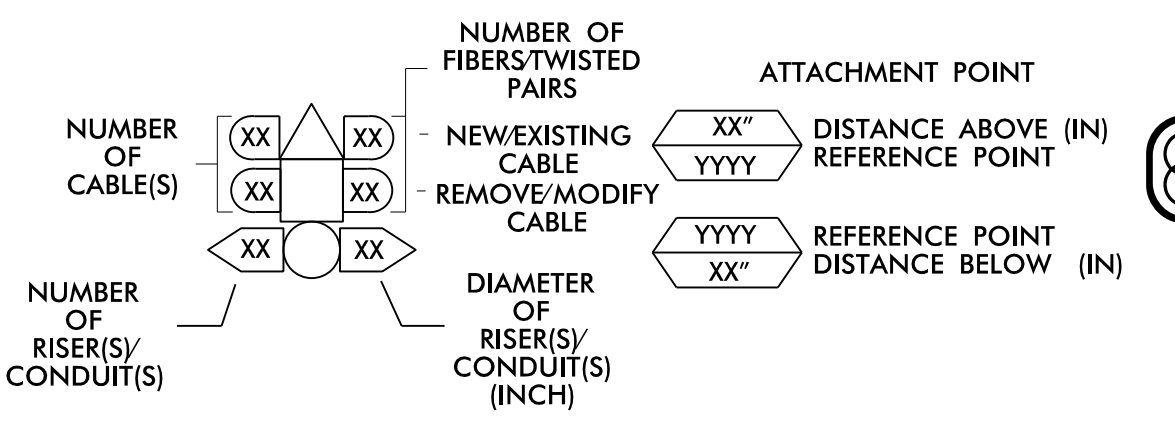
BURKE ST.

MCARTHUR DR.

GRICE ST.

SAM DAVIS ST.

US 17 (S. HUGHES BLVD)



Plans Prepared By:

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8000 Regency Parkway, Suite 175
Cary, NC 27513
NC License No. C-2213 (919) 650-1038

Prepared for the Offices of:

Elizabeth City Signal System
Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

REVISIONS: INIT. DATE

750 N. Greenfield Pkwy., Garner, NC 27529

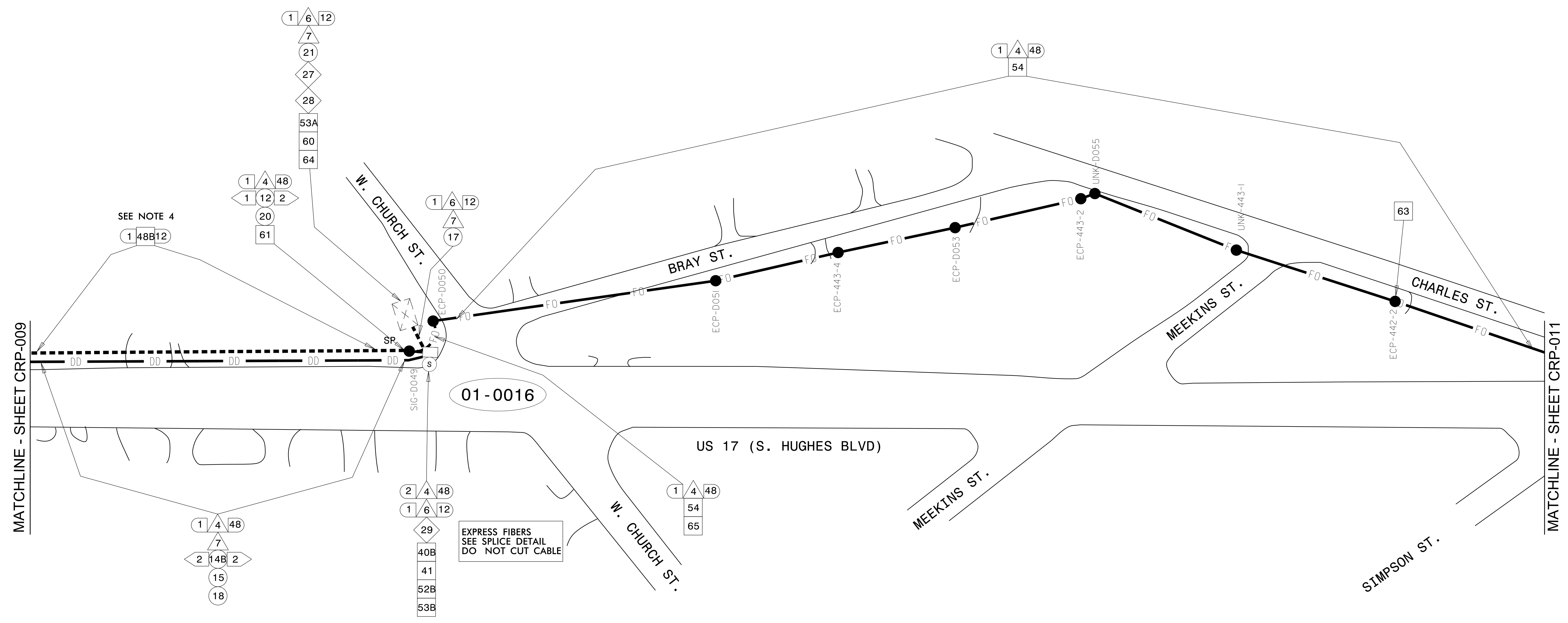
SCALE: 0 50
1" = 50'

DocuSigned by: Lisa M. Moon 8/22/2018

SEAL 022516

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER LISA M. MOON

CADD File name: CRP-009.dgn



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XXXX

YYYY

DISTANCE BELOW (IN) REFERENCE POINT

XX"

YY"

Plans Prepared By:

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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SCALE

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1" = 50'

Prepared for the Offices of:

Elizabeth City Signal System Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

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PREPARED BY: RD Lawton REVIEWED BY:

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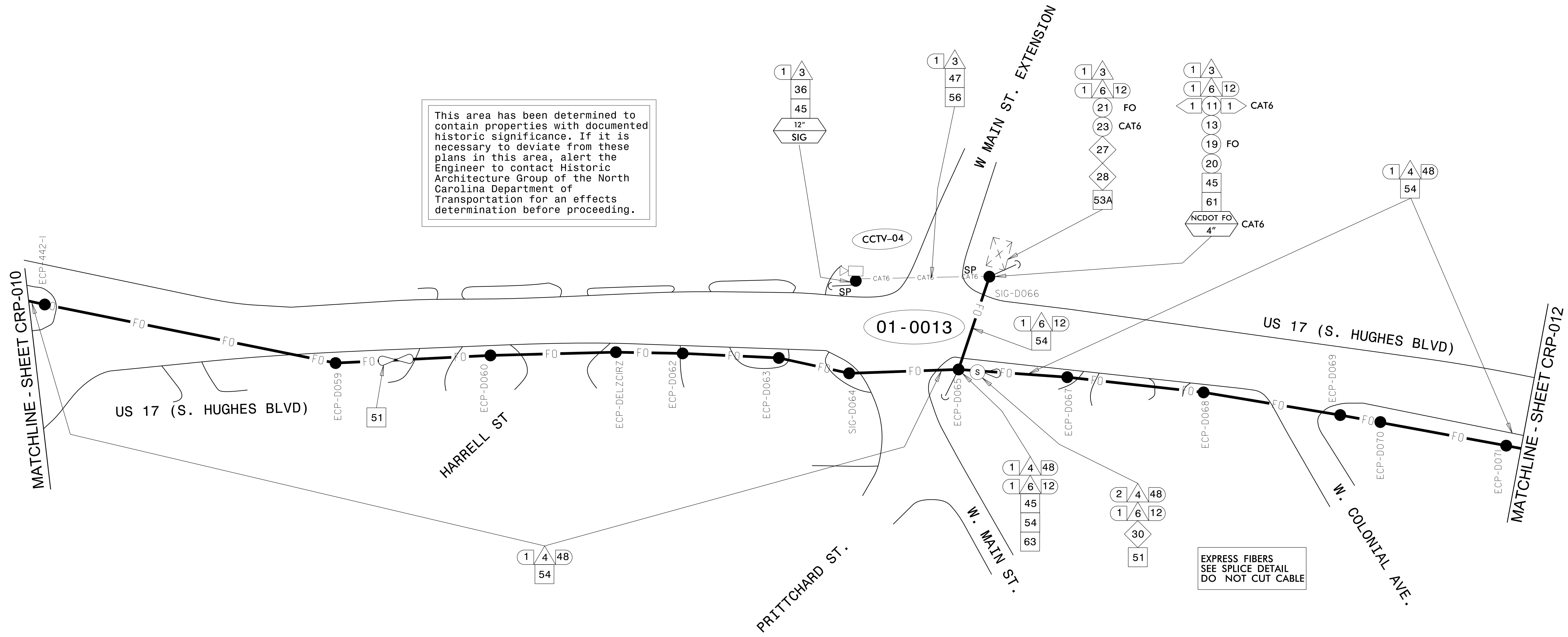
SEAL 022516

LISA M. MOON

DocuSigned by: Lisa M. Moon 8/22/2018

DATE

CADD File name: CRP-010.dgn



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**Elizabeth City Signal System
Cable Routing Plans**

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

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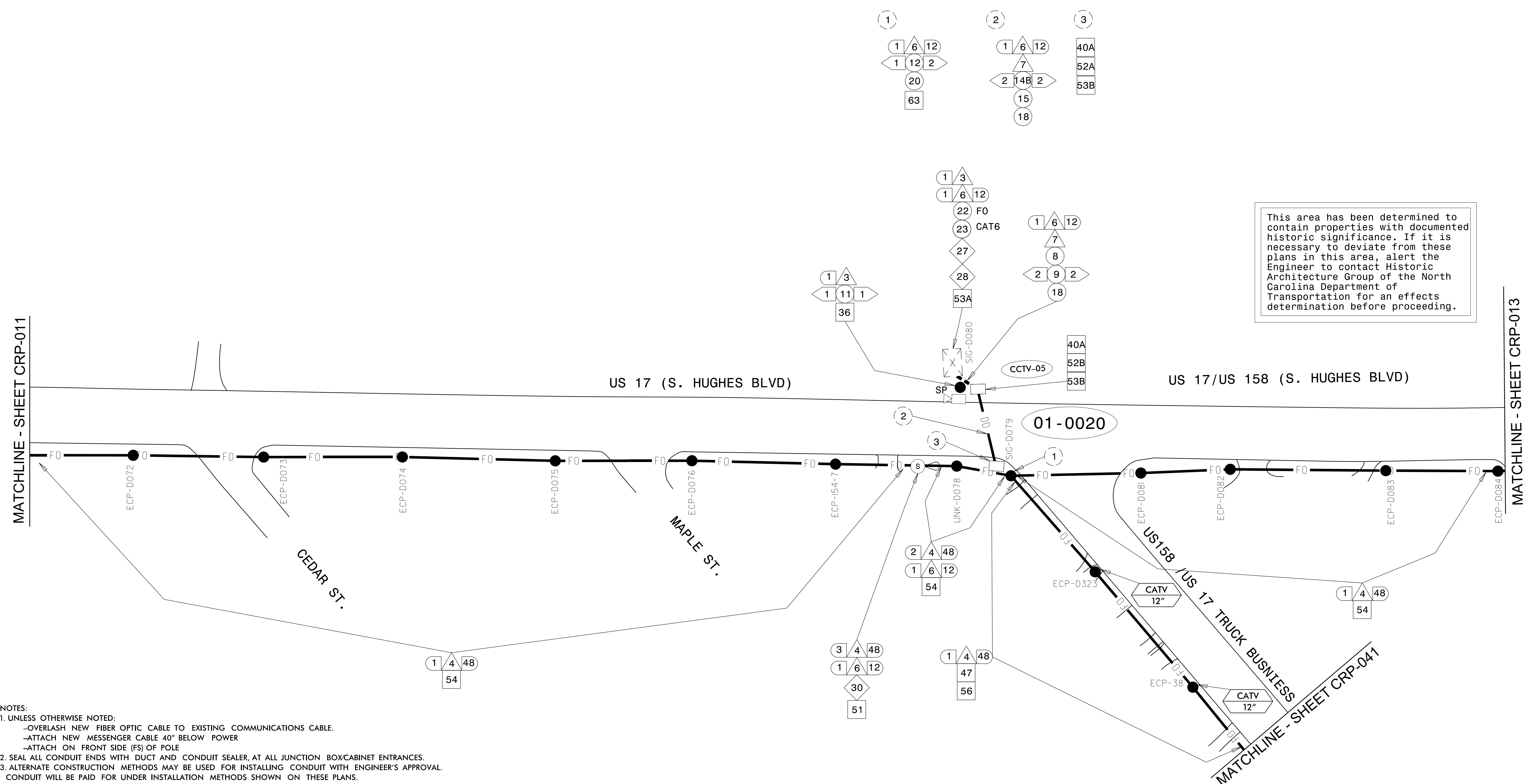
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CADD Filename: CRP-011.dgn

SCALE

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This area has been determined to contain properties with documented historic significance. If it is necessary to deviate from these plans in this area, alert the Engineer to contact Historic Architecture Group of the North Carolina Department of Transportation for an effects determination before proceeding.

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REVISIONS: INIT. DATE

SEAL

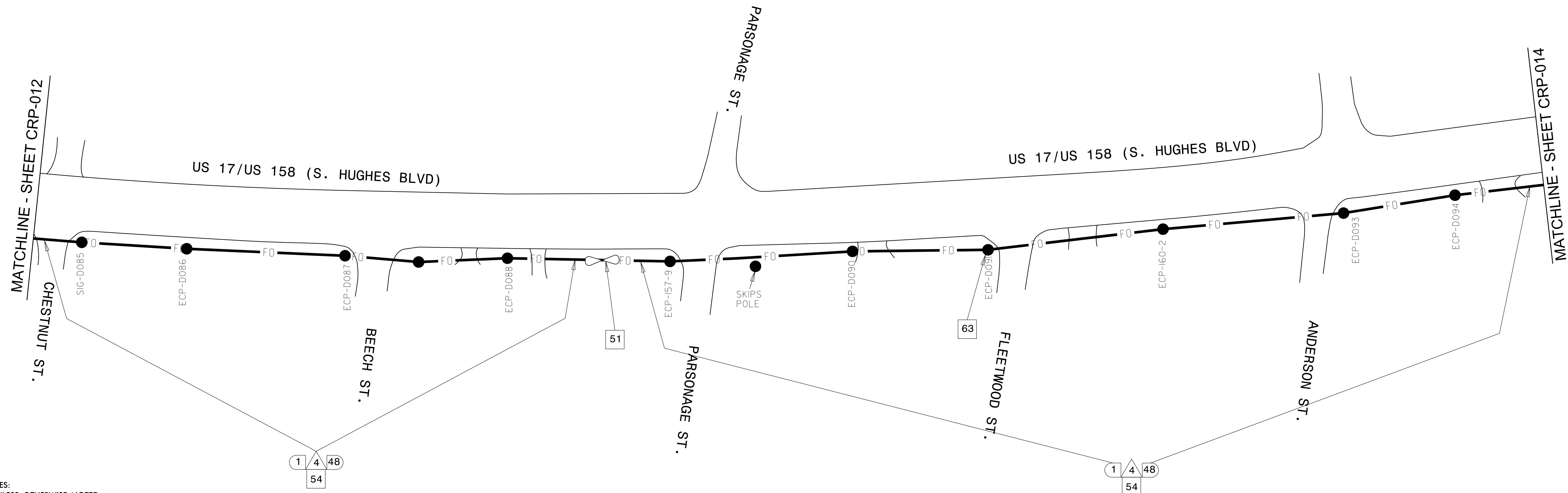
NORTH CAROLINA PROFESSIONAL ENGINEER

SEAL 022516

LIAM M. MOON

DATE: 9/21/2018

CADD File name: CRP-012.dgn



NOTES:
 1. UNLESS OTHERWISE NOTED:
 -OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 -ATTACH NEW MESSENGER CABLE 40" BELOW POWER
 -ATTACH ON FRONT SIDE (FS) OF POLE
 2. SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER, AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. ALTERNATE CONSTRUCTION METHODS MAY BE USED FOR INSTALLING CONDUIT WITH ENGINEER'S APPROVAL.
 CONDUIT WILL BE PAID FOR UNDER INSTALLATION METHODS SHOWN ON THESE PLANS.

1	NOT USED	15	DIRECTIONAL DRILL CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	43	NOT USED	55	LASH CABLE(S) TO EXISTING MESSENGER CABLE
2	NOT USED	16	NOT USED	30	INSTALL AERIAL SPLICE ENCLOSURE	44	INSTALL AERIAL GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE
3	INSTALL ETHERNET CABLE	17	INSTALL CABLE(S) IN EXISTING CONDUIT	31	NOT USED	45	INSTALL STANDARD GUY ASSEMBLY	57	HANDLASH AND INSTALL AERIAL CABLE PROTECTOR
4	INSTALL SMFO CABLE	18	INSTALL CABLE(S) IN NEW CONDUIT	32	NOT USED	46	INSTALL SIDEWALK GUY ASSEMBLY	58	NOT USED
5	NOT USED	19	INSTALL CABLE(S) IN EXISTING RISER	33	NOT USED	47	INSTALL MESSENGER CABLE	59	BOND TRACER WIRE TO EQUIPMENT GROUND BUS
6	INSTALL FIBER OPTIC DROP CABLE	20	INSTALL CABLE(S) IN NEW RISER	34	NOT USED	48A	REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	60	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS
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8	TRENCH	22	INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	36	INSTALL CCTV CAMERA ASSEMBLY	49	NOT USED	62	BOND RISER TO POLE GROUND
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Plans Prepared By:

DRMP, Inc.
8000 Regency Parkway, Suite 175
Cary, NC 27513
NC License No. C-2213 (919) 650-1038

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NUMBER OF FIBER/TWISTED PAIRS: XX
 ATTACHMENT POINT: XX" ABOVE (IN) / YYY" REFERENCE POINT
 NUMBER OF CABLE(S): XX
 NEW/EXISTING CABLE: XX
 REMOVE/MODIFY CABLE: YY
 DIAMETER OF RISER(S)/CONDUIT(S) (INCH): XX
 REFERENCE POINT DISTANCE BELOW (IN): XX"

Prepared for the Offices of:

750 N. Greenfield Pkwy., Garner, NC 27529

Elizabeth City Signal System Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

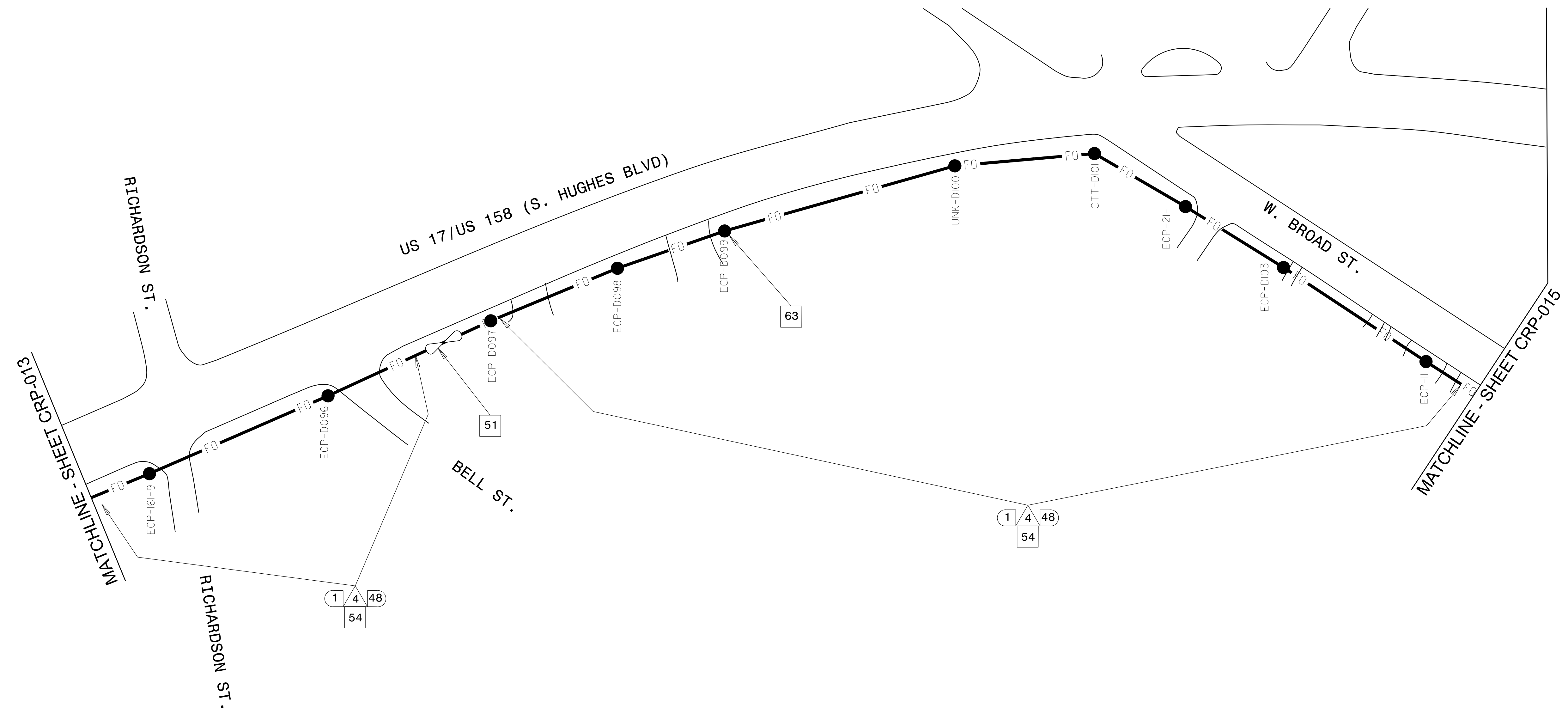
SEAL

8/22/2018

DATE

SCALE: 0 50
1" = 50'

22-AUG-2018 10:00 AM
 C:\Users\lmoon\OneDrive\Documents\Projects\2018\CRP-013.dgn



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NEW/EXISTING CABLE

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ATTACHMENT POINT

DISTANCE ABOVE (IN) REFERENCE POINT

DISTANCE BELOW (IN) REFERENCE POINT

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

Plans Prepared By:

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Prepared for the Offices of:

750 N. Greenfield Pkwy., Garner, NC 27529

SCALE: 0 50
1" = 50'

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Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

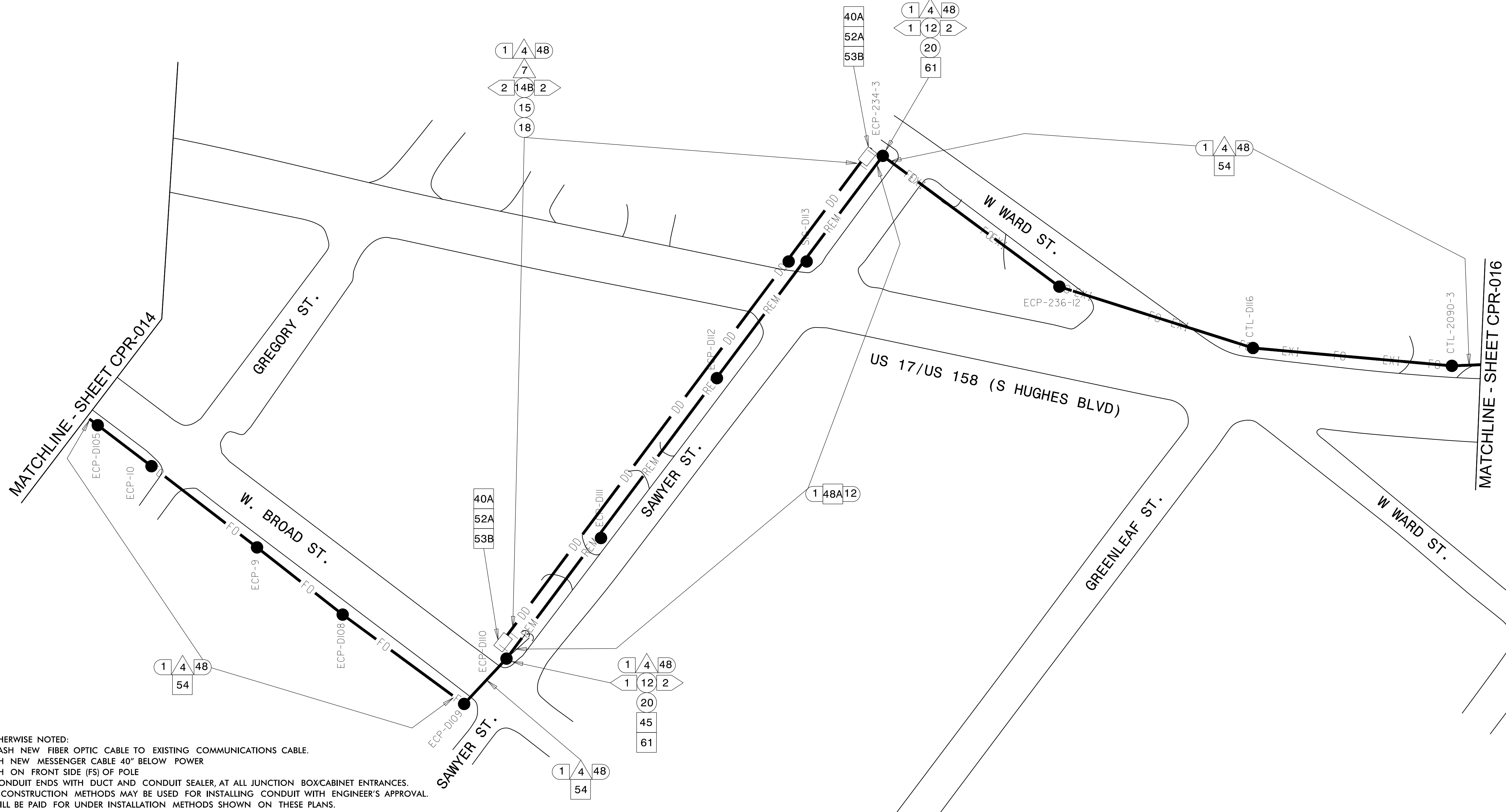
PREPARED BY: RD Lawton REVIEWED BY:

SEAL

DocuSigned by:
Lisa M. Moon 8/22/2018

DATE: 8/22/2018

CADD File name: CRP-014.dgn



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REMOVE/MODIFY CABLE

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

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DISTANCE ABOVE (IN) REFERENCE POINT

DISTANCE BELOW (IN) REFERENCE POINT

Plans Prepared By:

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Prepared for the Offices of:

750 N. Greenfield Pkwy., Garner, NC 27529

Elizabeth City Signal System Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

SEAL

PROFESSIONAL ENGINEER

SEAL 022516

LISA M. MOON

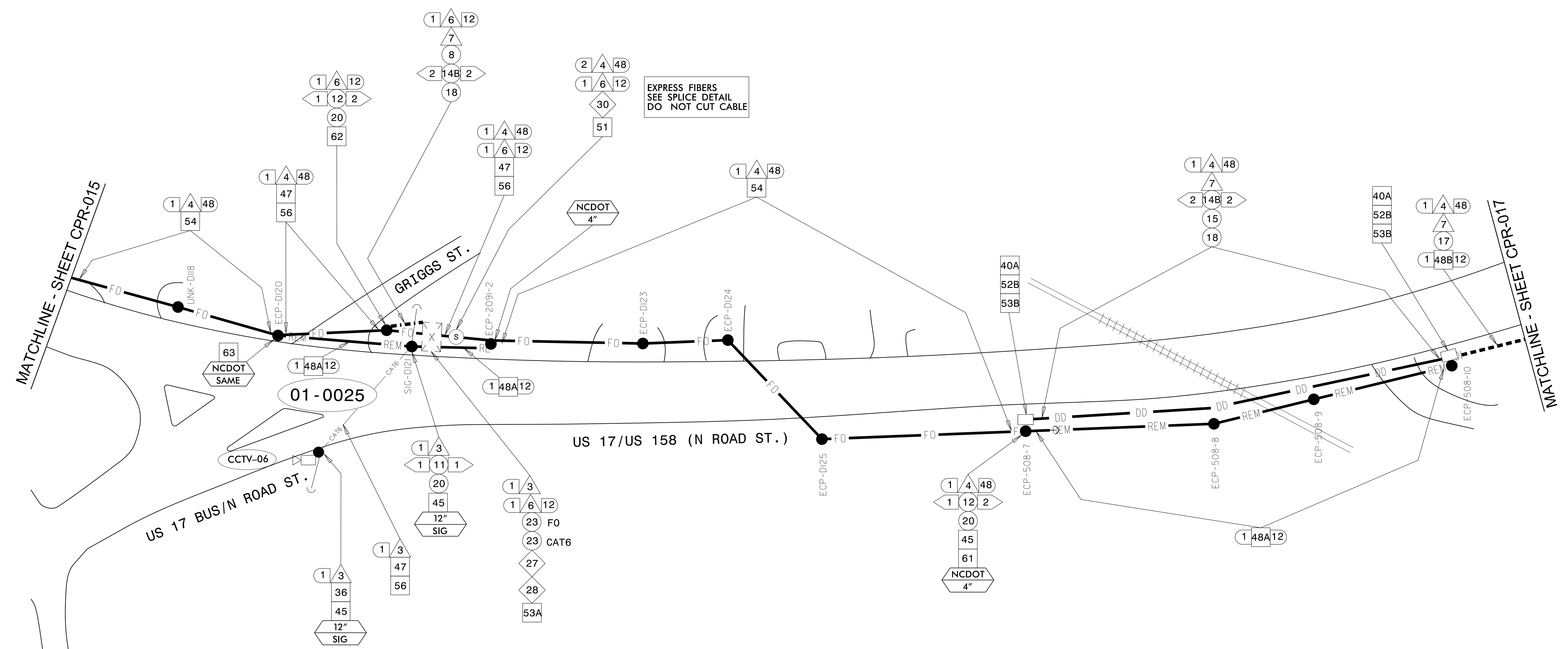
8/22/2018

DATE

CADD File name: CRP-015.dgn

SCALE 0 50

1" = 50'



EXPRESS FIBERS
SEE SPLICE DETAIL
DO NOT CUT CABLE

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SCALE: 0 50
1" = 50'

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Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

REVISIONS: INIT. DATE

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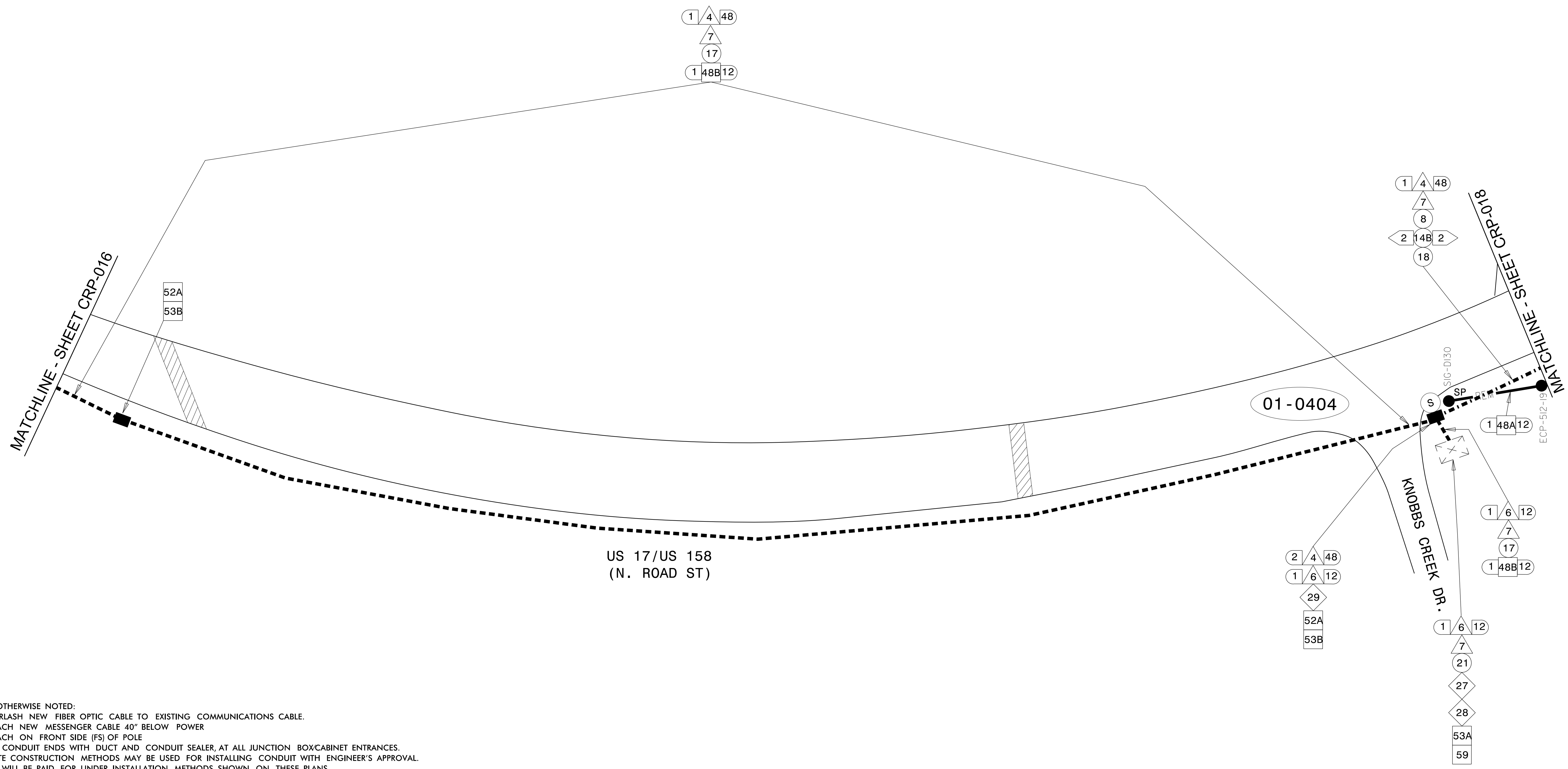
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LISA M. MOON

8/22/2018

CADD Filename: CRP-016.dgn



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REVISIONS: INIT. DATE

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

SEAL 022516

LISA M. MOON

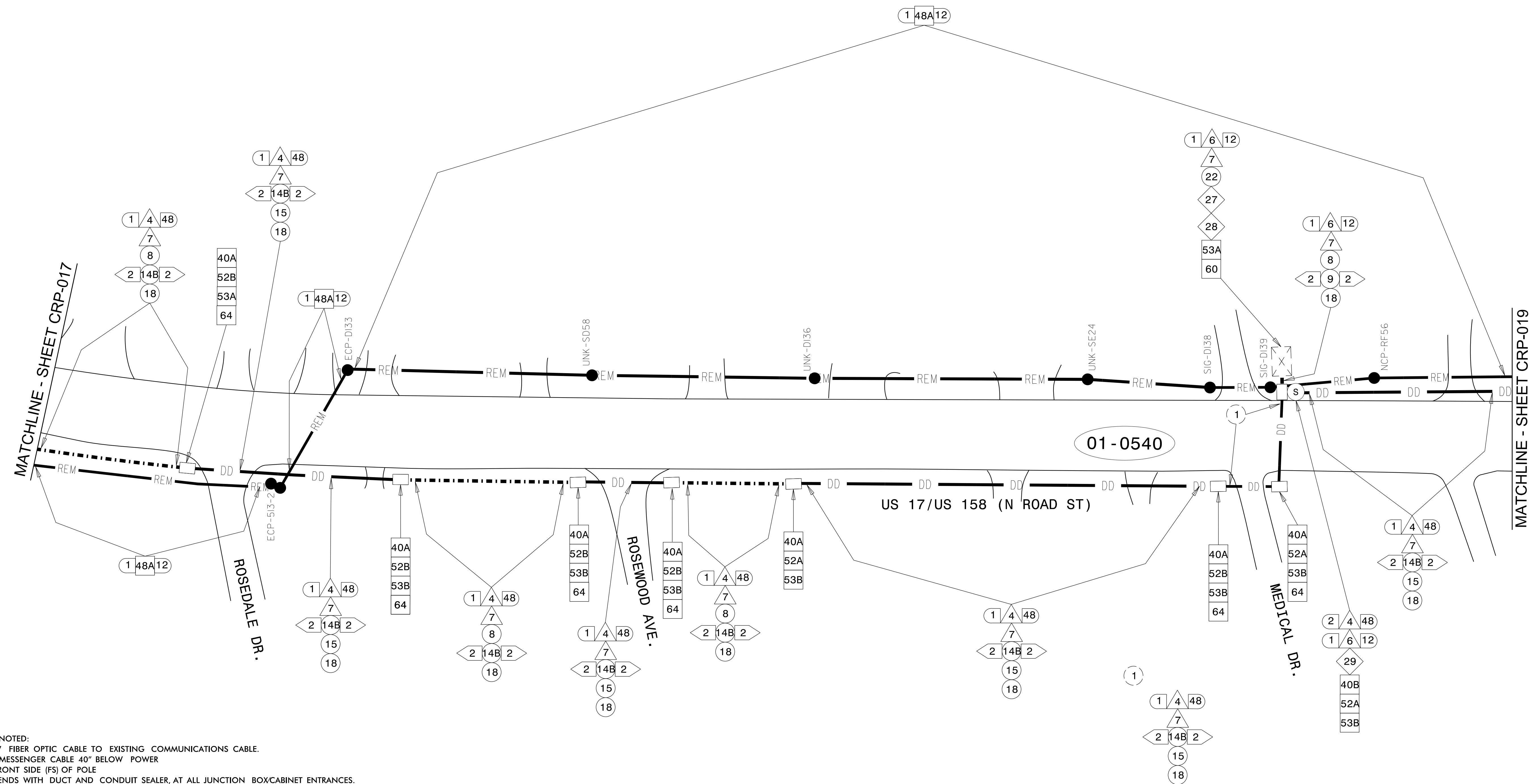
DocuSigned by: Lisa M. Moon 8/22/2018

CADD File name: CRP-017.dgn

SCALE

0 50

1" = 50'



NOTES:
 1. UNLESS OTHERWISE NOTED:
 -OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 -ATTACH NEW MESSENGER CABLE 40" BELOW POWER
 -ATTACH ON FRONT SIDE (FS) OF POLE
 2. SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER, AT ALL JUNCTION BOX/CABINET ENTRANCES.
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1	NOT USED	15	DIRECTIONAL DRILL CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	43	NOT USED	55	LASH CABLE(S) TO EXISTING MESSENGER CABLE
2	NOT USED	16	NOT USED	30	INSTALL AERIAL SPLICE ENCLOSURE	44	INSTALL AERIAL GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE
3	INSTALL ETHERNET CABLE	17	INSTALL CABLE(S) IN EXISTING CONDUIT	31	NOT USED	45	INSTALL STANDARD GUY ASSEMBLY	57	HANDLASH AND INSTALL AERIAL CABLE PROTECTOR
4	INSTALL SMFO CABLE	18	INSTALL CABLE(S) IN NEW CONDUIT	32	NOT USED	46	INSTALL SIDEWALK GUY ASSEMBLY	58	NOT USED
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7	INSTALL TRACER WIRE	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUBOUTS	35	NOT USED	48B	REMOVE EXISTING COMMUNICATIONS CABLE	61	BOND RISER AND MESSENGER CABLE TO POLE GROUND
8	TRENCH	22	INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	36	INSTALL CCTV CAMERA ASSEMBLY	49	NOT USED	62	BOND RISER TO POLE GROUND
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NUMBER OF CABLE(S)

NUMBER OF RISER(S)/CONDUIT(S)

NUMBER OF FIBER/TWISTED PAIRS

NEW/EXISTING CABLE

REMOVE/MODIFY CABLE

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

ATTACHMENT POINT

DISTANCE ABOVE (IN) REFERENCE POINT

XXXX

YYYY

REFERENCE POINT DISTANCE BELOW (IN)

XX"

Plans Prepared By:

DRMP, Inc.
8000 Regency Parkway, Suite 175
Cary, NC 27513
NC License No. C-2213 (919) 650-1038

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

750 N. Greenfield Pkwy., Garner, NC 27529

Elizabeth City Signal System Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

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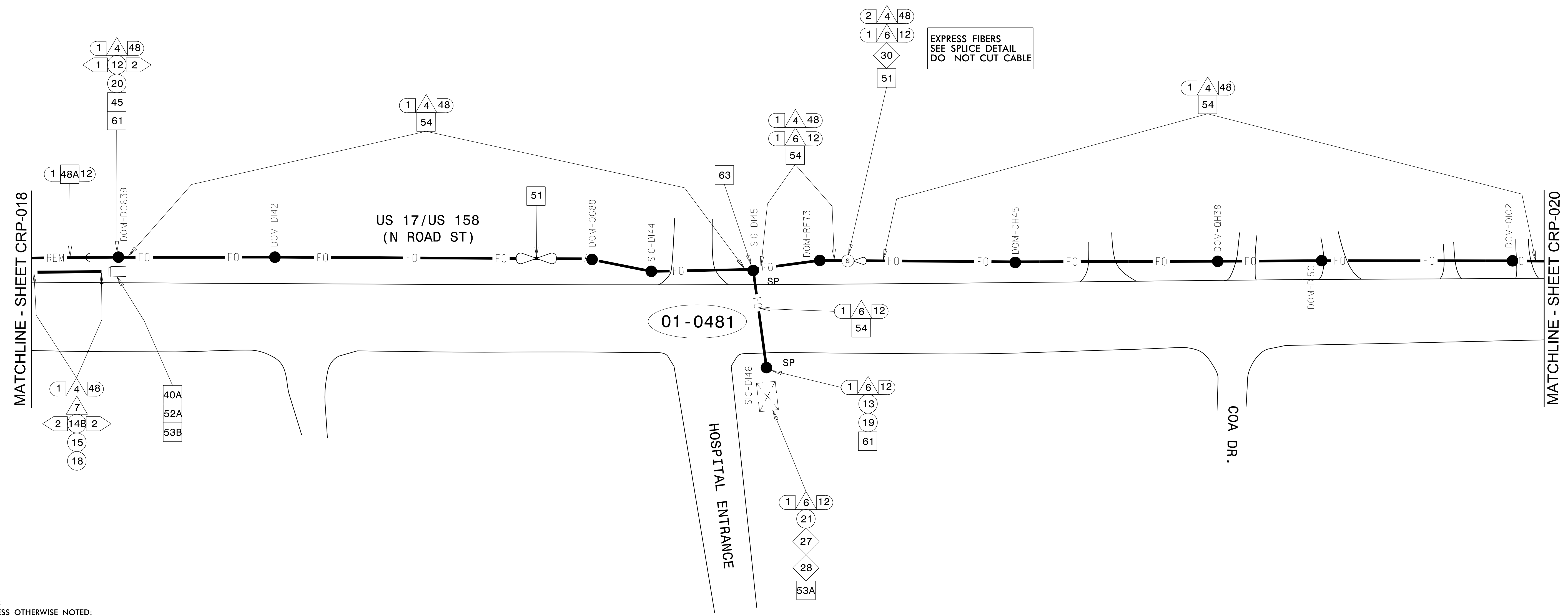
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22-AUG-2018 10:00 AM
 C:\Users\lmoon\OneDrive\Documents\Projects\CRP-018.dgn



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Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

REVISIONS: _____ INIT. DATE

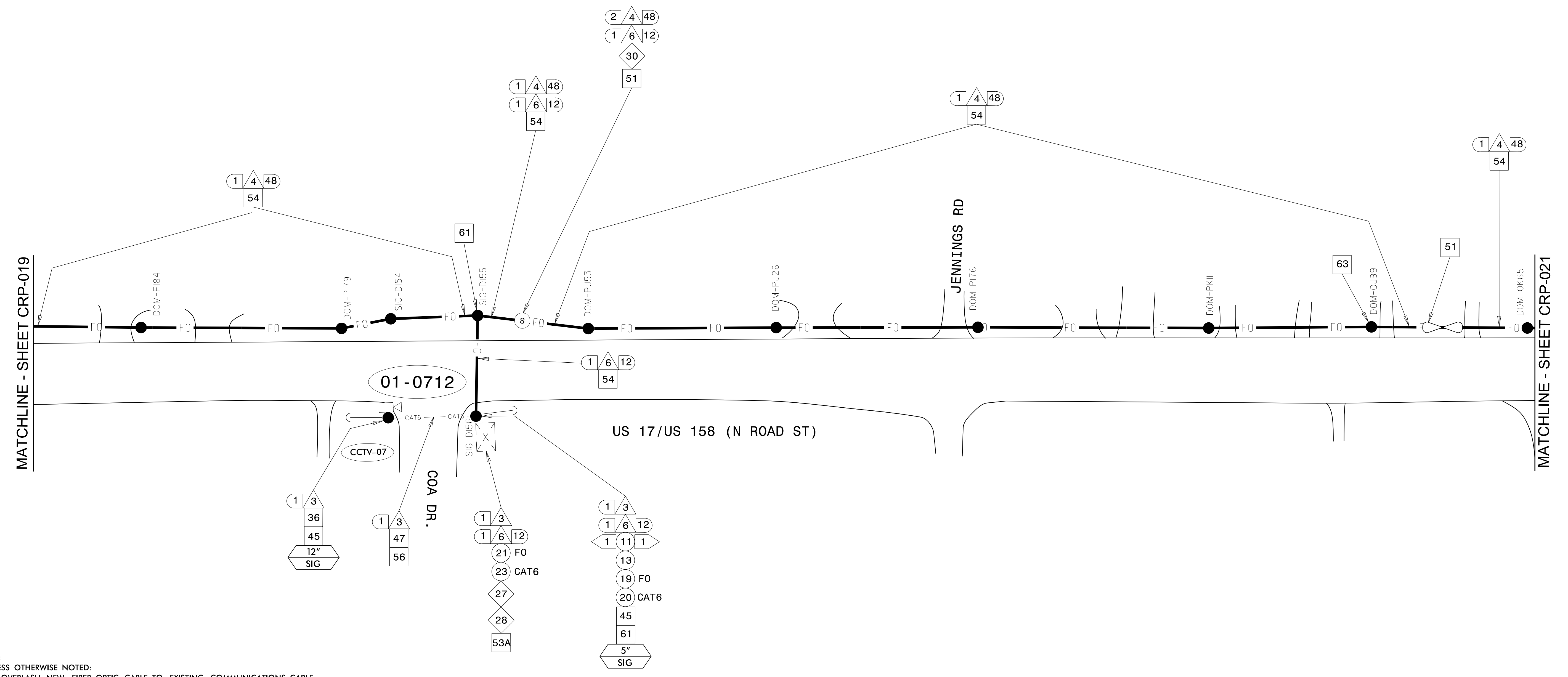
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SCALE: 0 50
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DocuSigned by:
Lisa M. Moon 8/22/2018
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ATTACHMENT POINT (XX) (YY)

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NC License No. C-2213 (919) 650-1038

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750 N. Greenfield Pkwy., Garner, NC 27529

SCALE
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1" = 50'

Elizabeth City Signal System
Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

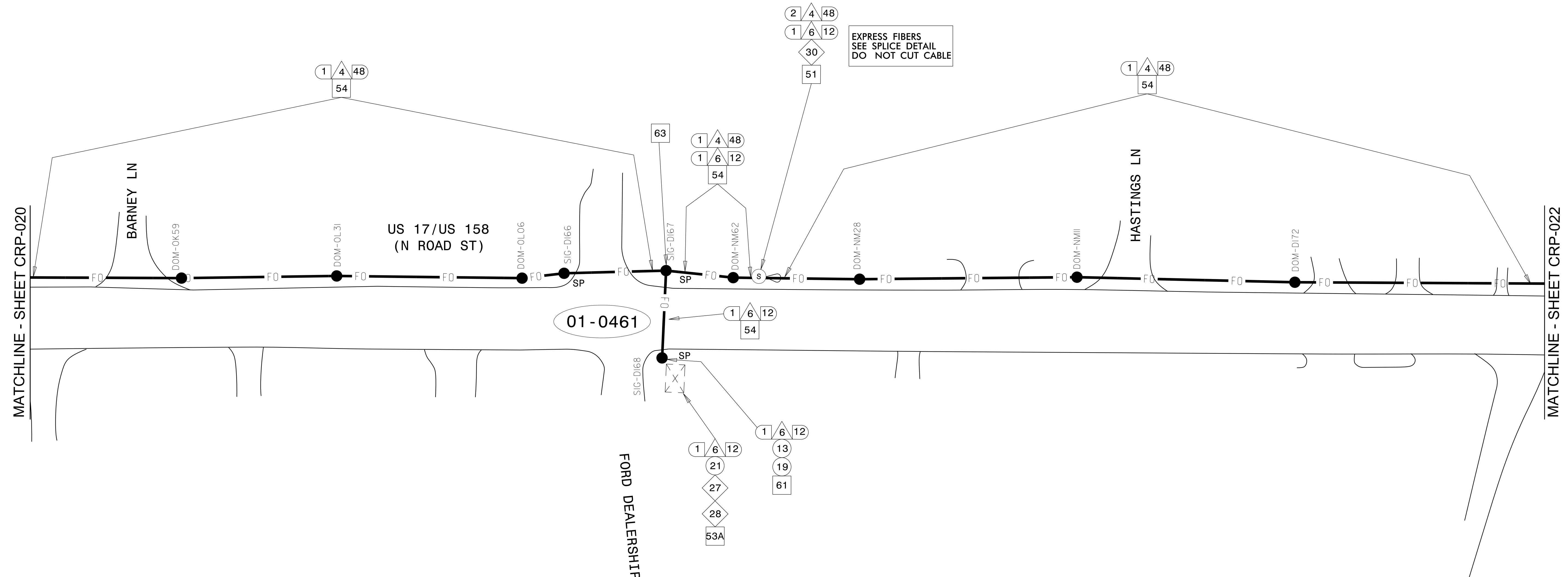
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SEAL
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PROFESSIONAL
SEAL
022516
ENGINEER
LISA M. MOON

DocuSigned by:
Lisa M. Moon 8/22/2018
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CADD Filename: CRP-020.dgn



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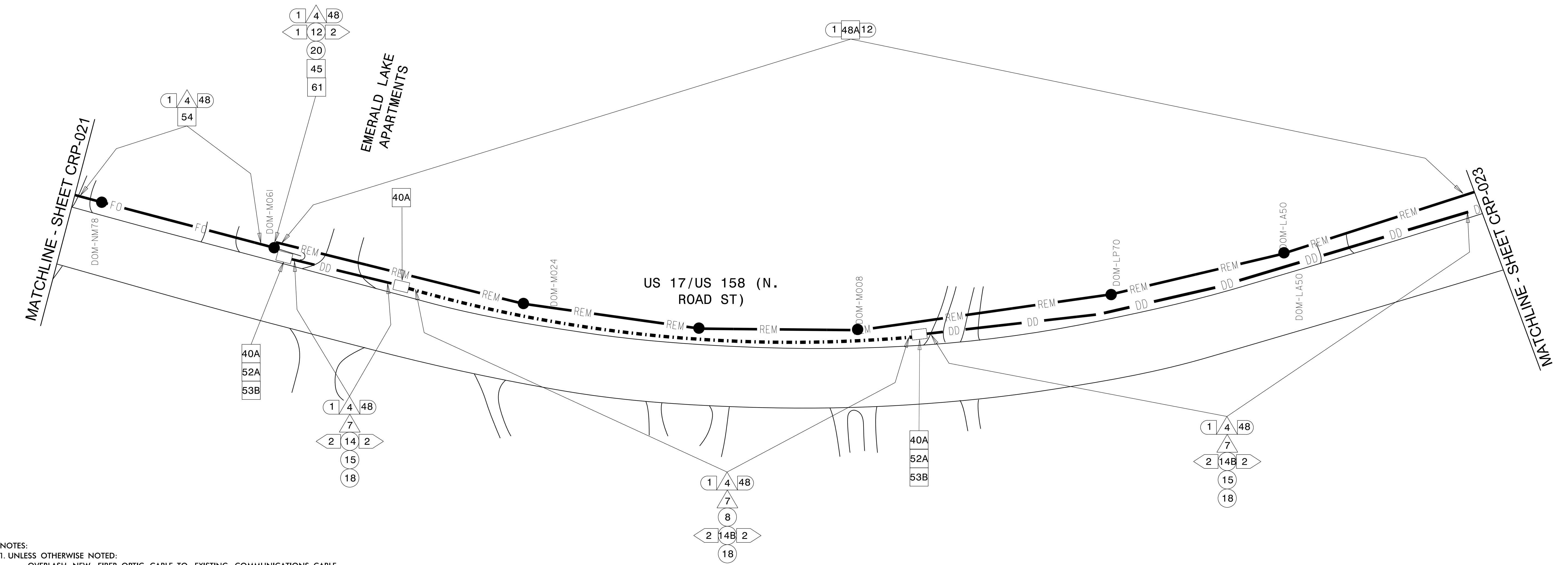
SEAL

SEAL 022516
LISA M. MOON
ENGINEER

DocuSigned by:
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Elizabeth City Signal System Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

REVISIONS

INIT.	DATE

SEAL

DRMP

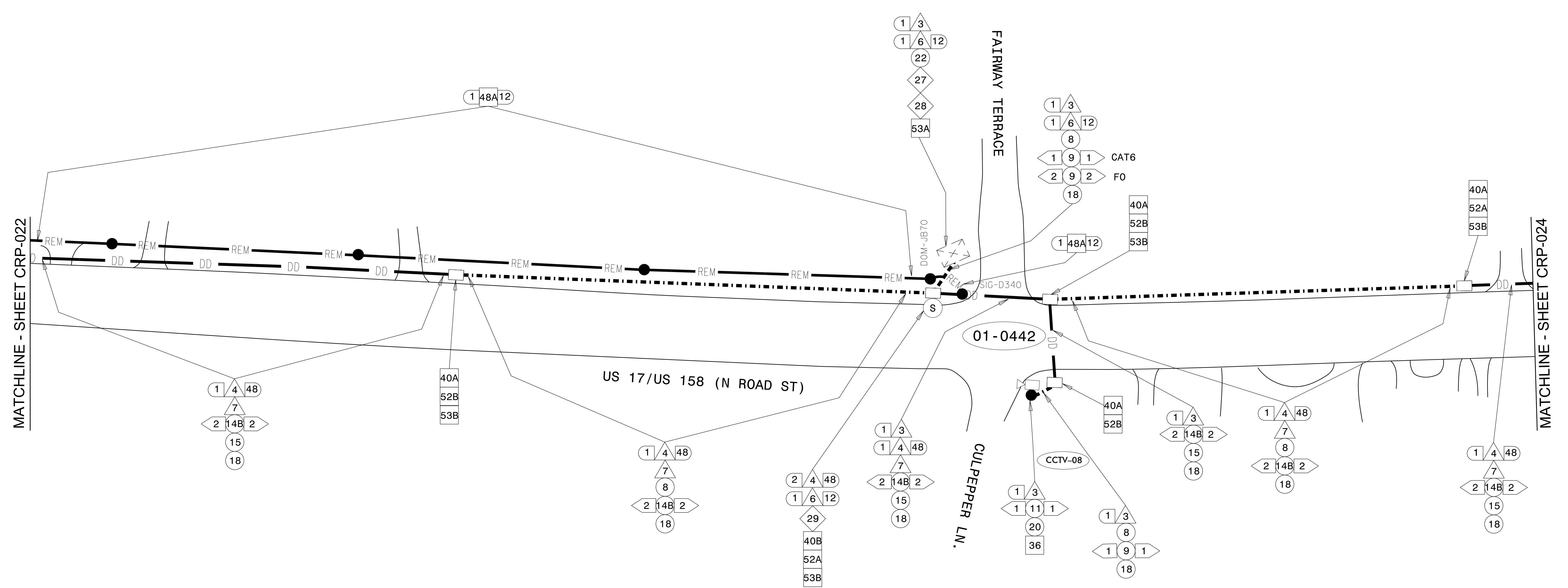
SEAL 022516

ENGINEER

LIAM M. MOON

DocuSigned by:
Liam M. Moon 8/22/2018

CADD File name: CRP-022.dgn



NOTES:
 1. UNLESS OTHERWISE NOTED:
 -OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 -ATTACH NEW MESSENGER CABLE 40" BELOW POWER
 -ATTACH ON FRONT SIDE (FS) OF POLE
 2. SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER, AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. ALTERNATE CONSTRUCTION METHODS MAY BE USED FOR INSTALLING CONDUIT WITH ENGINEER'S APPROVAL. CONDUIT WILL BE PAID FOR UNDER INSTALLATION METHODS SHOWN ON THESE PLANS.

EXPRESS FIBERS
 SEE SPLICE DETAIL
 DO NOT CUT CABLE

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

NUMBER OF CABLE(S)

NUMBER OF RISER(S)/ CONDUIT(S)

NUMBER OF FIBER/TWISTED PAIRS

NEW/EXISTING CABLE

REMOVE/MODIFY CABLE

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

ATTACHMENT POINT

DISTANCE ABOVE (IN) REFERENCE POINT

DISTANCE BELOW (IN) REFERENCE POINT

Plans Prepared By:

DRMP, Inc.
8000 Regency Parkway, Suite 175
Cary, NC 27515
NC License No. C-2213 (919) 650-1038

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

750 N. Greenfield Pkwy., Garner, NC 27529

SCALE
0 50
1" = 50'

Prepared for the Offices of:

Elizabeth City Signal System
Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

PLAN DATE: April 2018 REVIEWED BY: LM Moon

PREPARED BY: RD Lawton REVIEWED BY:

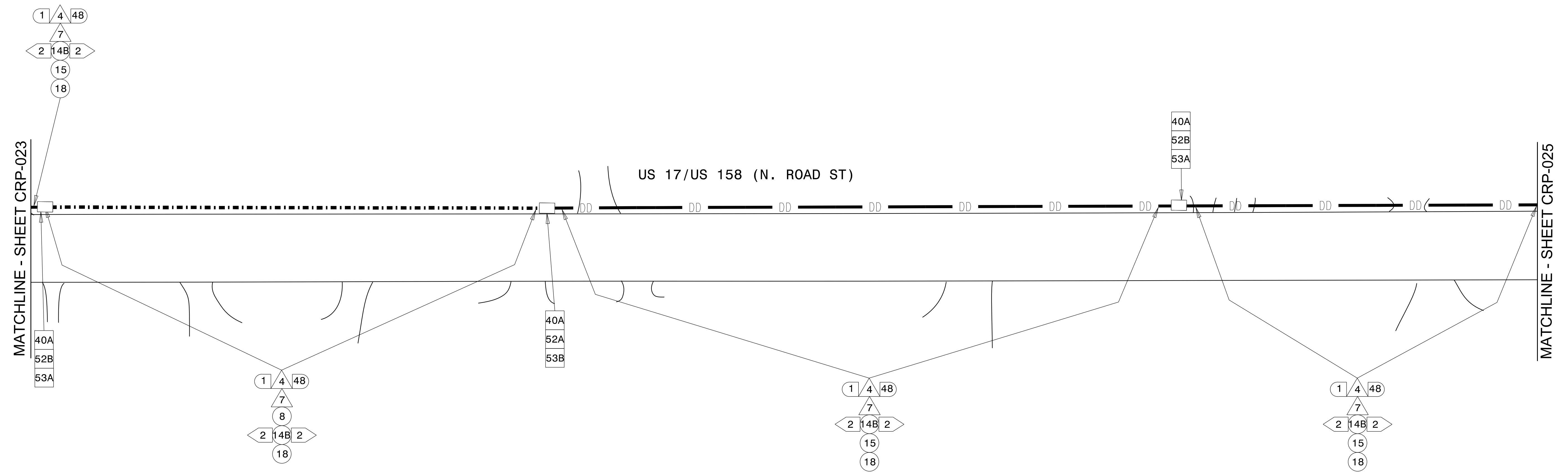
REVISIONS	INIT.	DATE

SEAL

SEAL 022516
LISA M. MOON
ENGINEER

DocuSigned by:
Lisa M. Moon 8/22/2018

CADD File name: CRP-023.dgn



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NUMBER OF CABLE(S) (XX)
NUMBER OF RISER(S)/CONDUIT(S) (XX)
DIAMETER OF RISER(S)/CONDUIT(S) (INCH) (XX)
ATTACHMENT POINT
DISTANCE ABOVE (IN) REFERENCE POINT (XX)
DISTANCE BELOW (IN) REFERENCE POINT (XX)

Plans Prepared By:

 DRMP, Inc.
 8000 Regency Parkway, Suite 175
 Cary, NC 27513
 NC License No. C-2213 (919) 650-1038

Prepared for the Offices of:

Elizabeth City Signal System Cable Routing Plans

Division 1 Pasquotank County Elizabeth City

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PREPARED BY: RD Lawton REVIEWED BY:

REVISIONS: _____ INIT. DATE

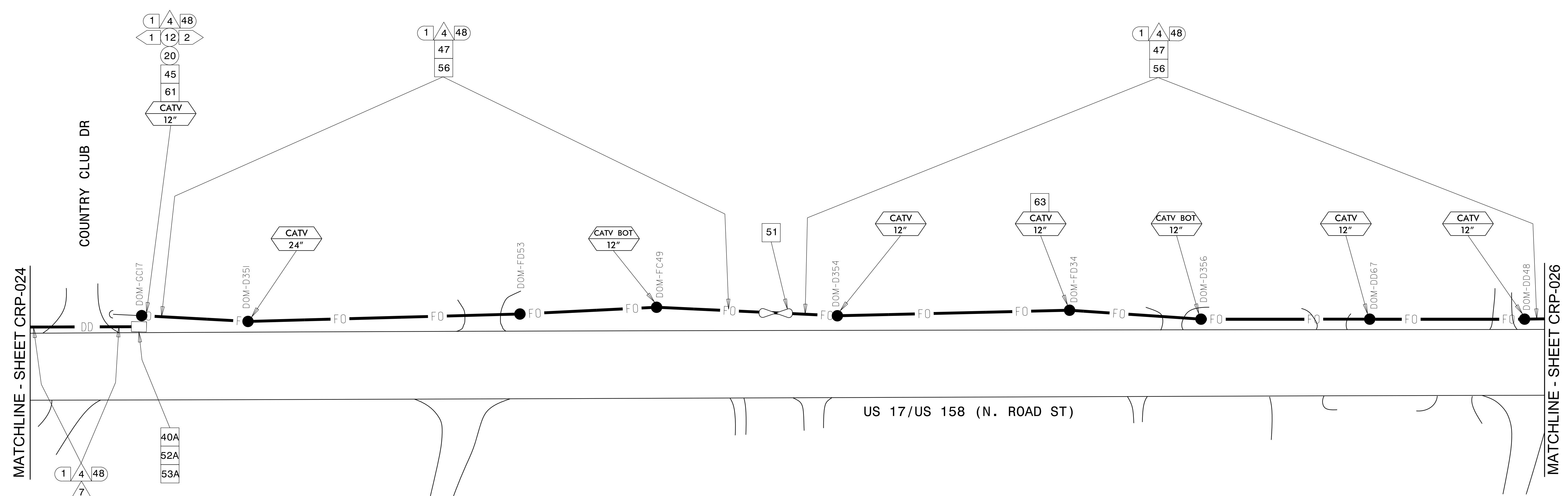
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SCALE: 0 50
1" = 50'

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DocuSigned by:
 Lisa M. Moon 8/22/2018
 DATE

CADD File name: CRP-024.dgn



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