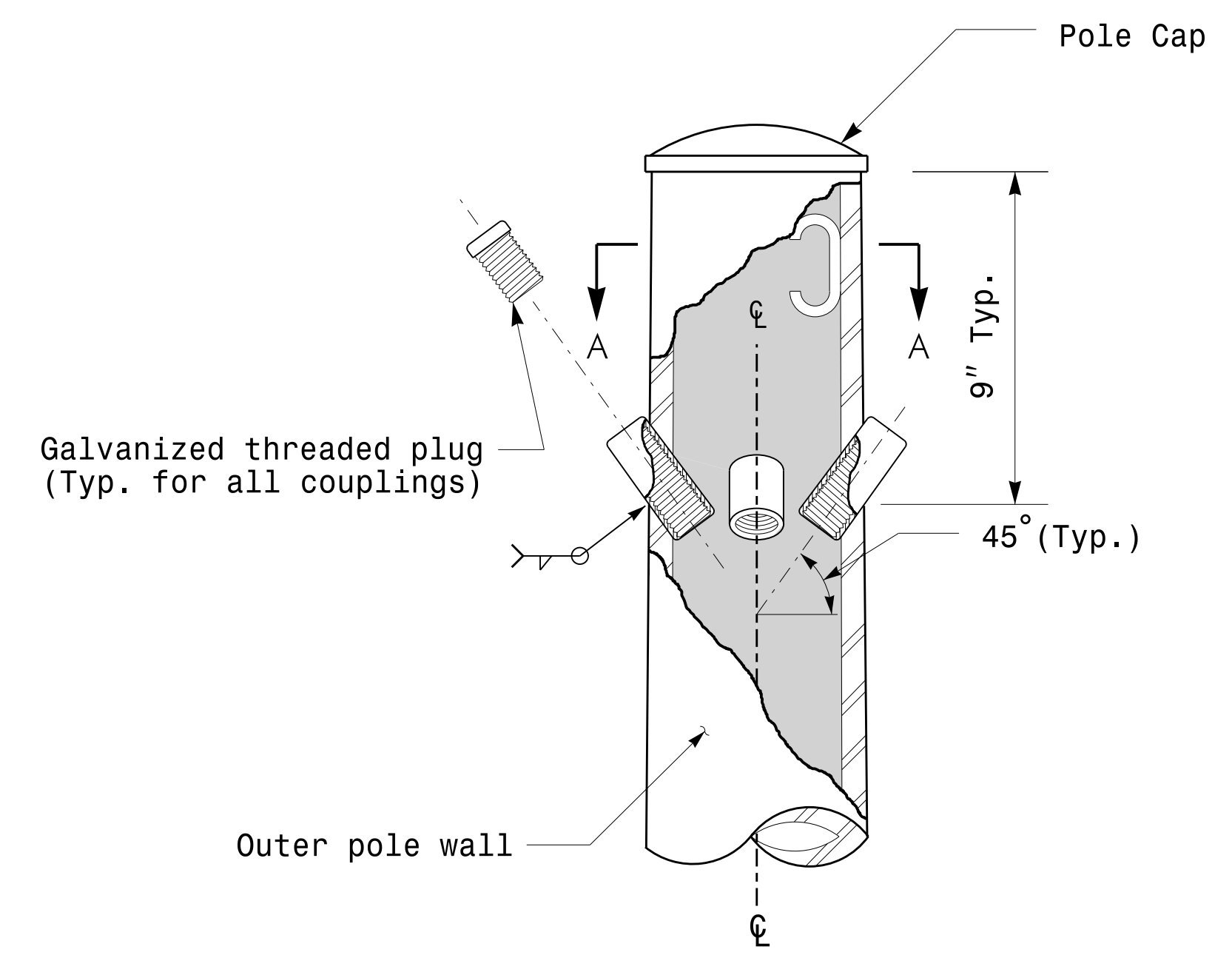
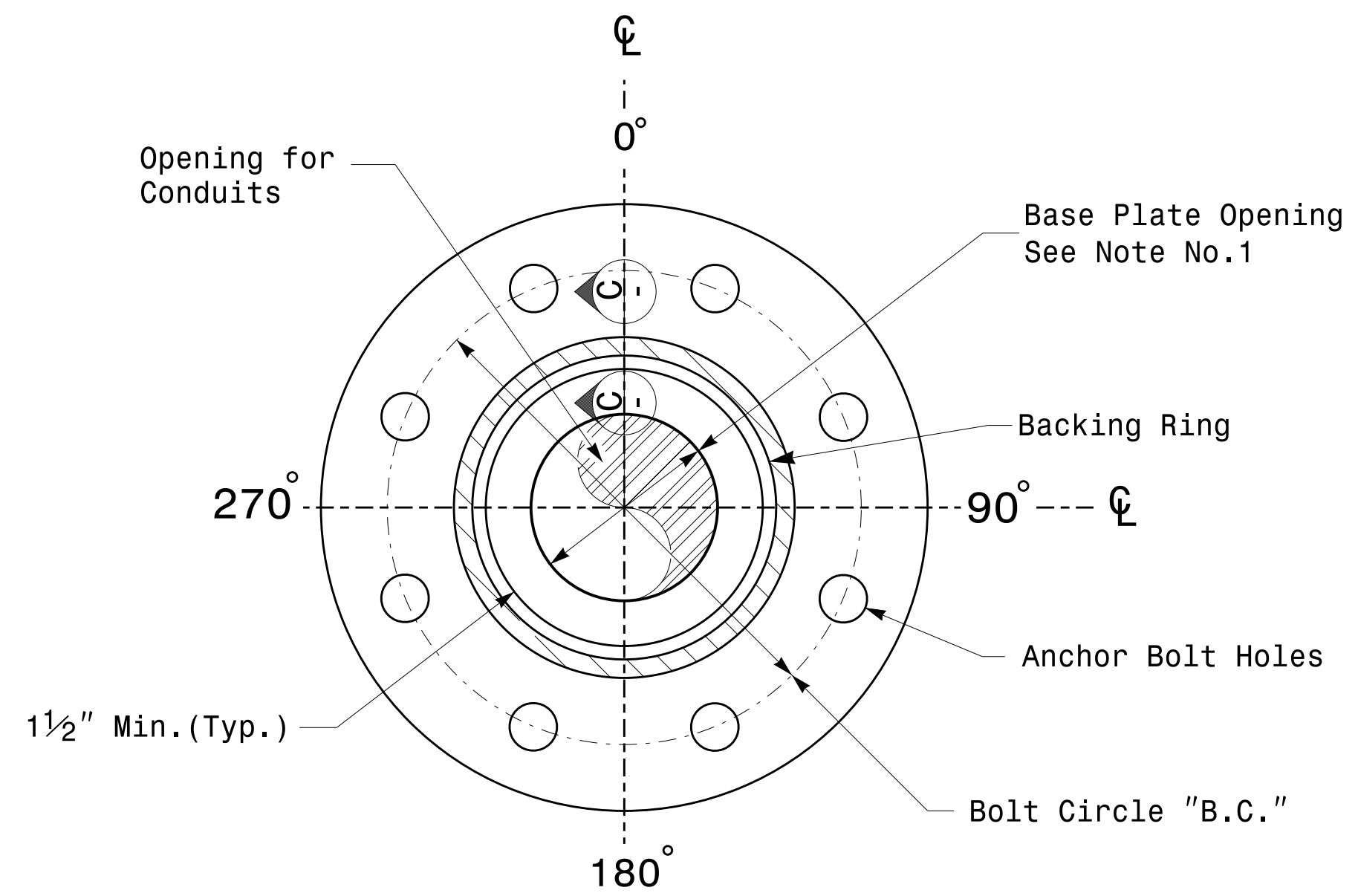


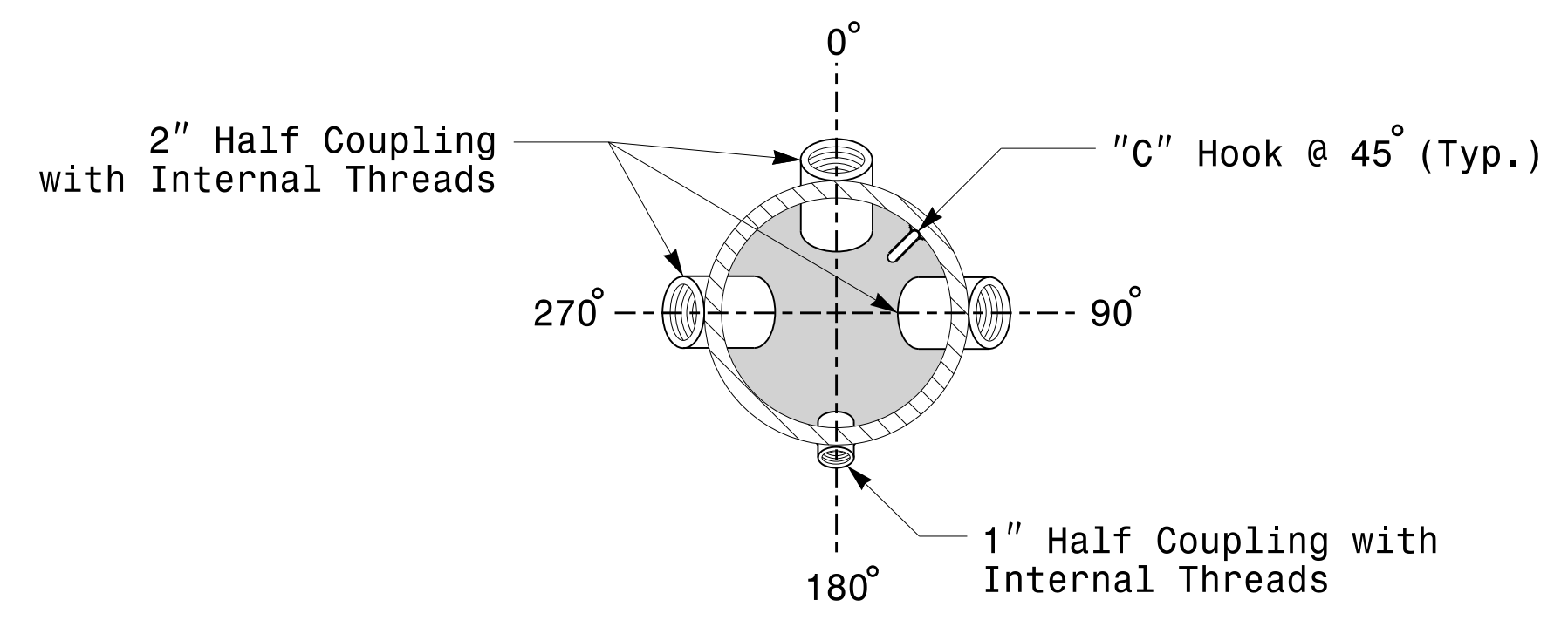
Note:
 1. Opening in pole base plate shall be equal to pole base inside diameter minus 3 1/2" but shall not be less than 8 1/2".



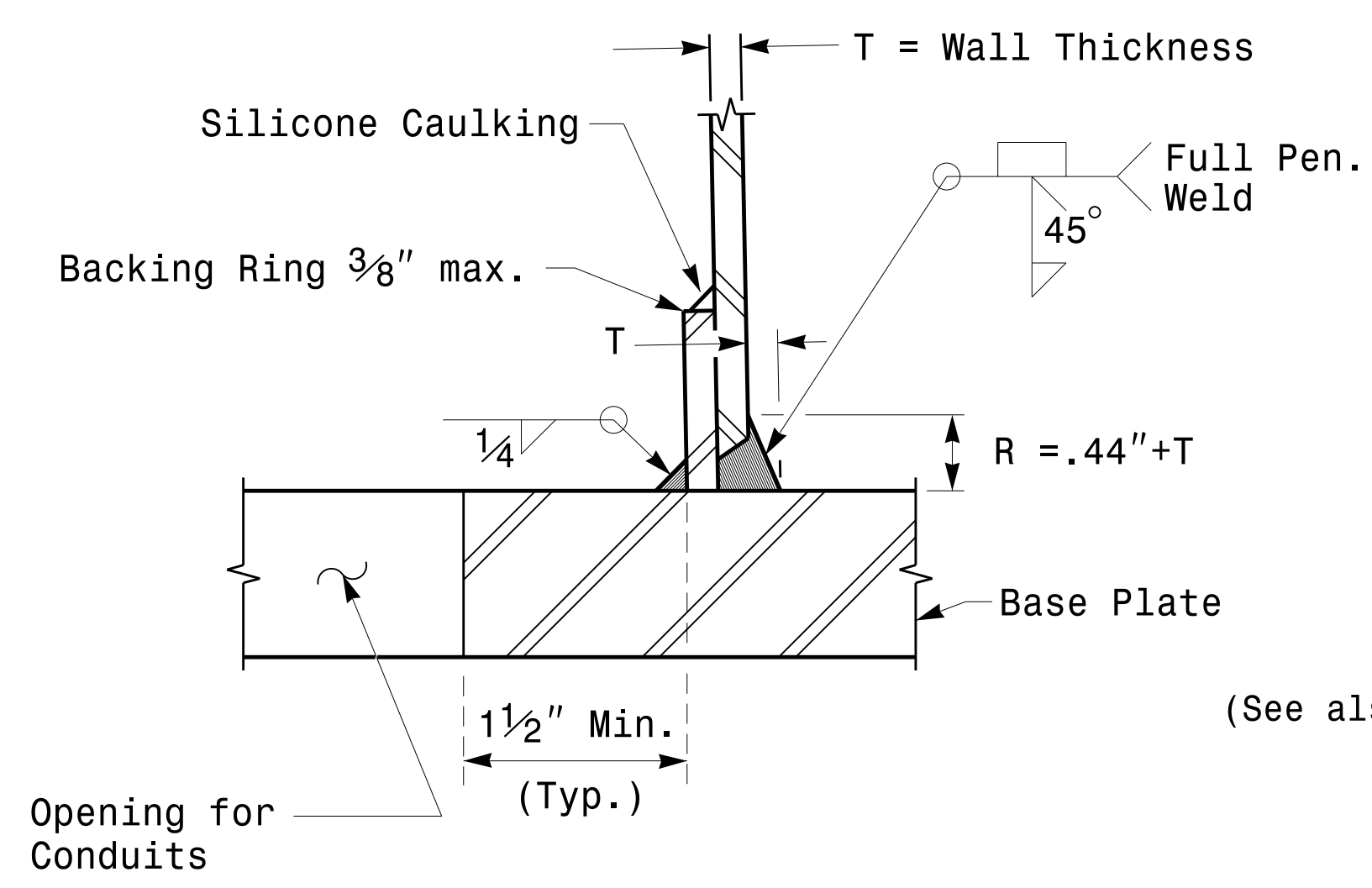
Cable Entrances at Top of Pole



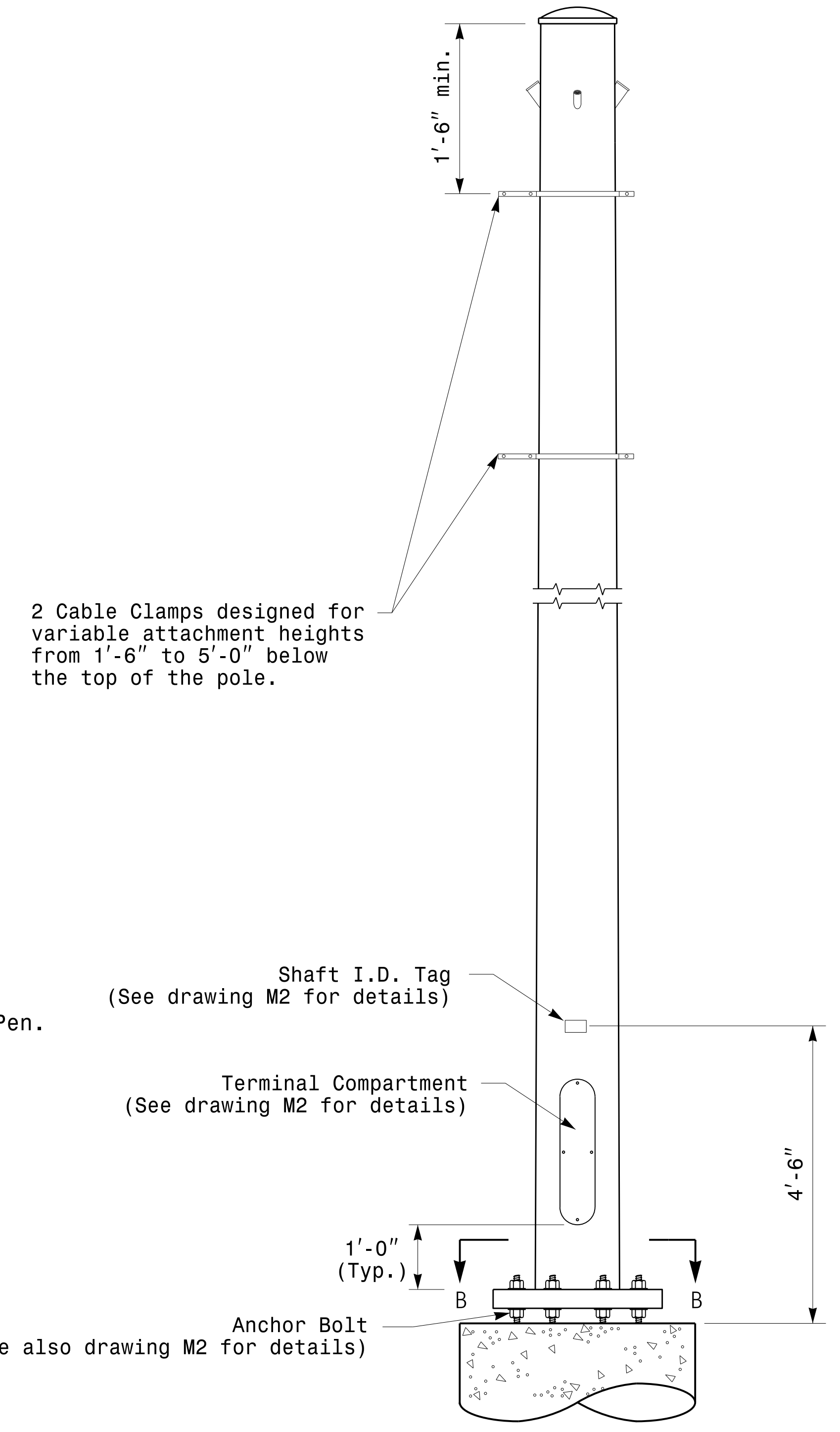
Section B-B
Pole Base Plate Details
(8 and 12 Bolt Pattern)



Section A-A
Radial Orientation for Factory Installed
Accessories at Top of Pole



Section C-C
(Pole Attachment to Base Plate)
Full-Penetration
Groove Weld Detail



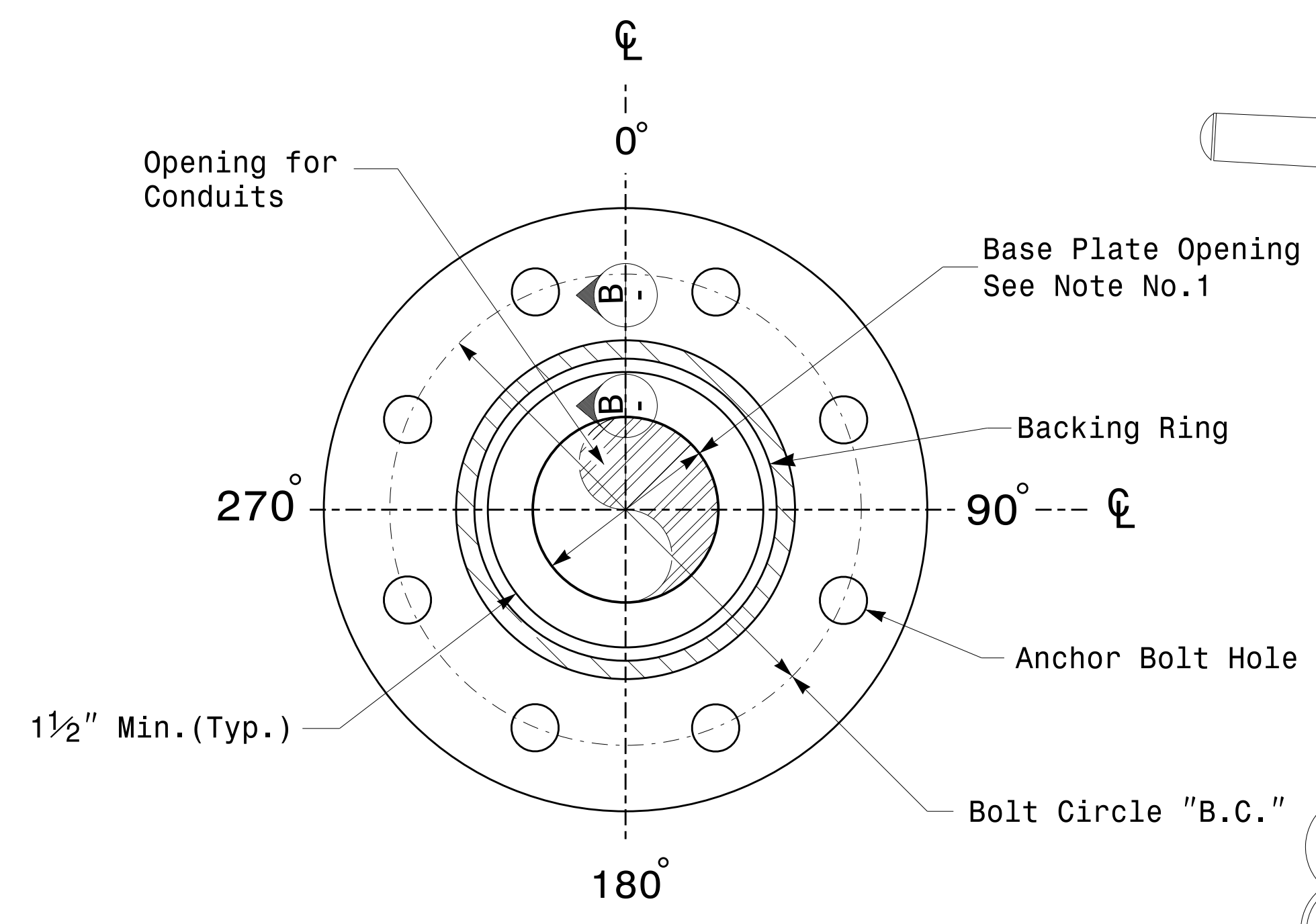
Monotube Strain Pole

11-0CT-2017-08:25
 136504115-StrainPoles.dgn
 Design Section Eastern Region
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 Design Section Eastern Region

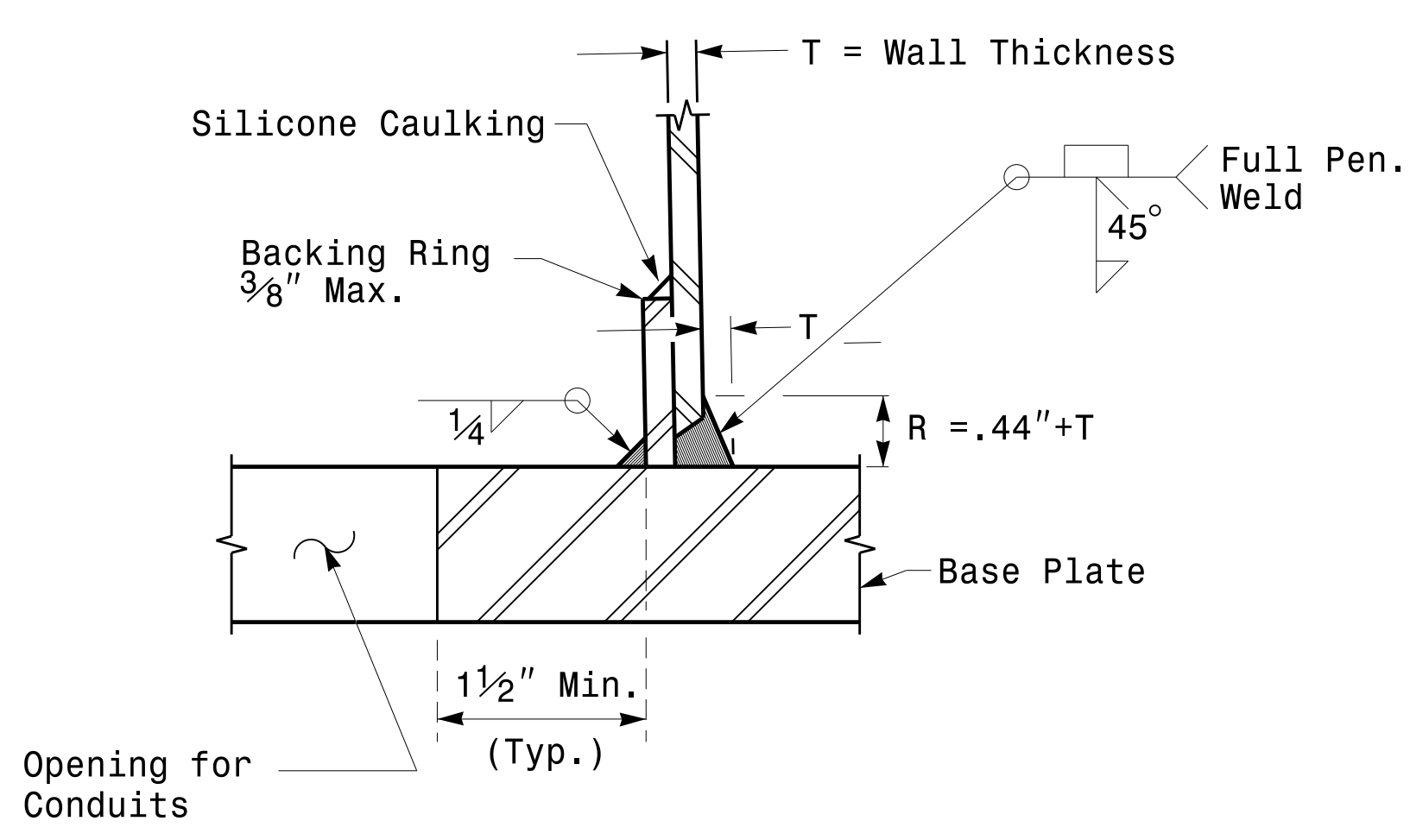
<p>750 N. Greenleaf Pkwy, Garner, NC 27529</p>	Typical Fabrication Details For Strain Poles		SEAL D.C. SARKAR ENGINEER 44887816/FK/PURE	
	PLAN DATE: OCTOBER 2017 DESIGNED BY: K.C. DURIGON	DESIGNED BY: K.C. DURIGON REVIEWED BY: D.C. SARKAR		SEAL 028094 ENGINEER D.C. SARKAR
	PREPARED BY: N. BITTING REVISIONS: _____ SCALE: 0 NA NONE	DATE: _____ INIT.: _____ DATE: _____		SEAL 028094 ENGINEER D.C. SARKAR

Fabrication Details – Strain Poles

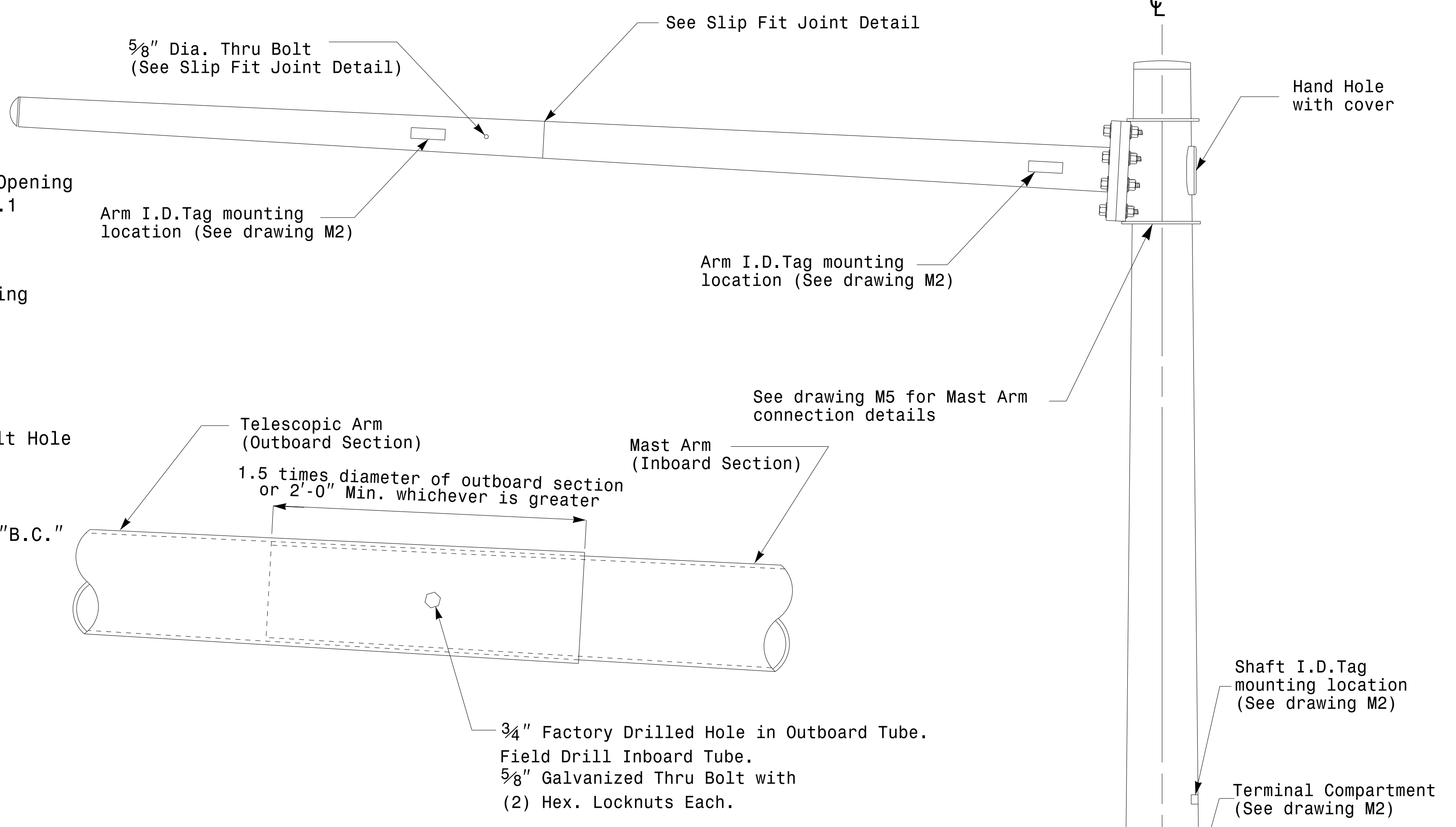
Note:
 1. Opening in pole base plate shall be equal to pole base inside diameter minus 3 1/2" but shall not be less than 8 1/2".



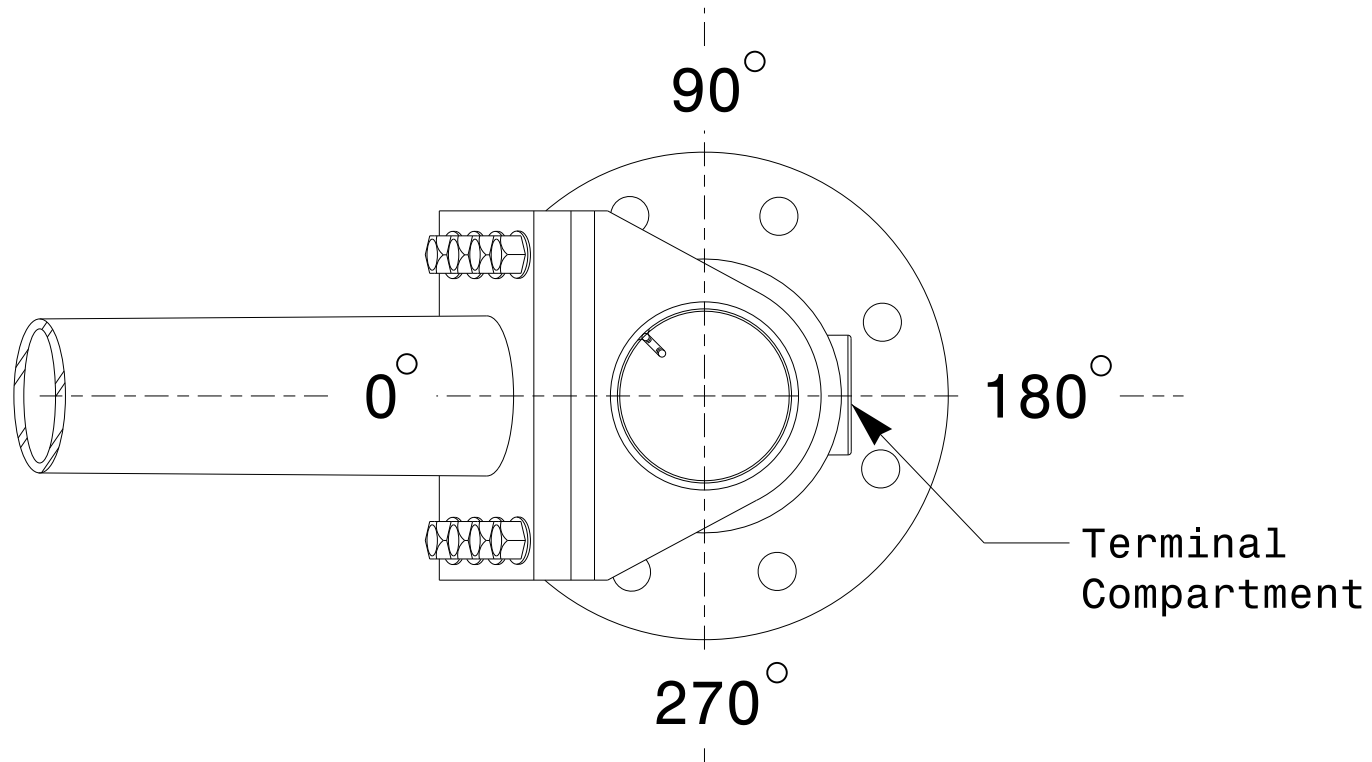
Section A-A
Pole Base Plate Details



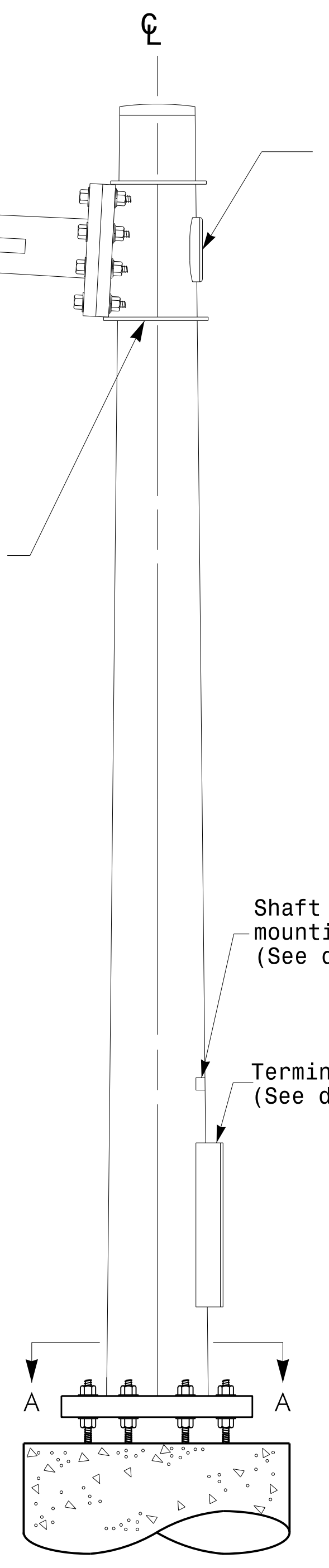
Section B-B
 (Pole Attachment to Base Plate)
Full-Penetration Groove Weld Detail



Slip Fit Joint Detail for Mast Arm



Mast Arm Radial Orientation



Mast Arm Pole

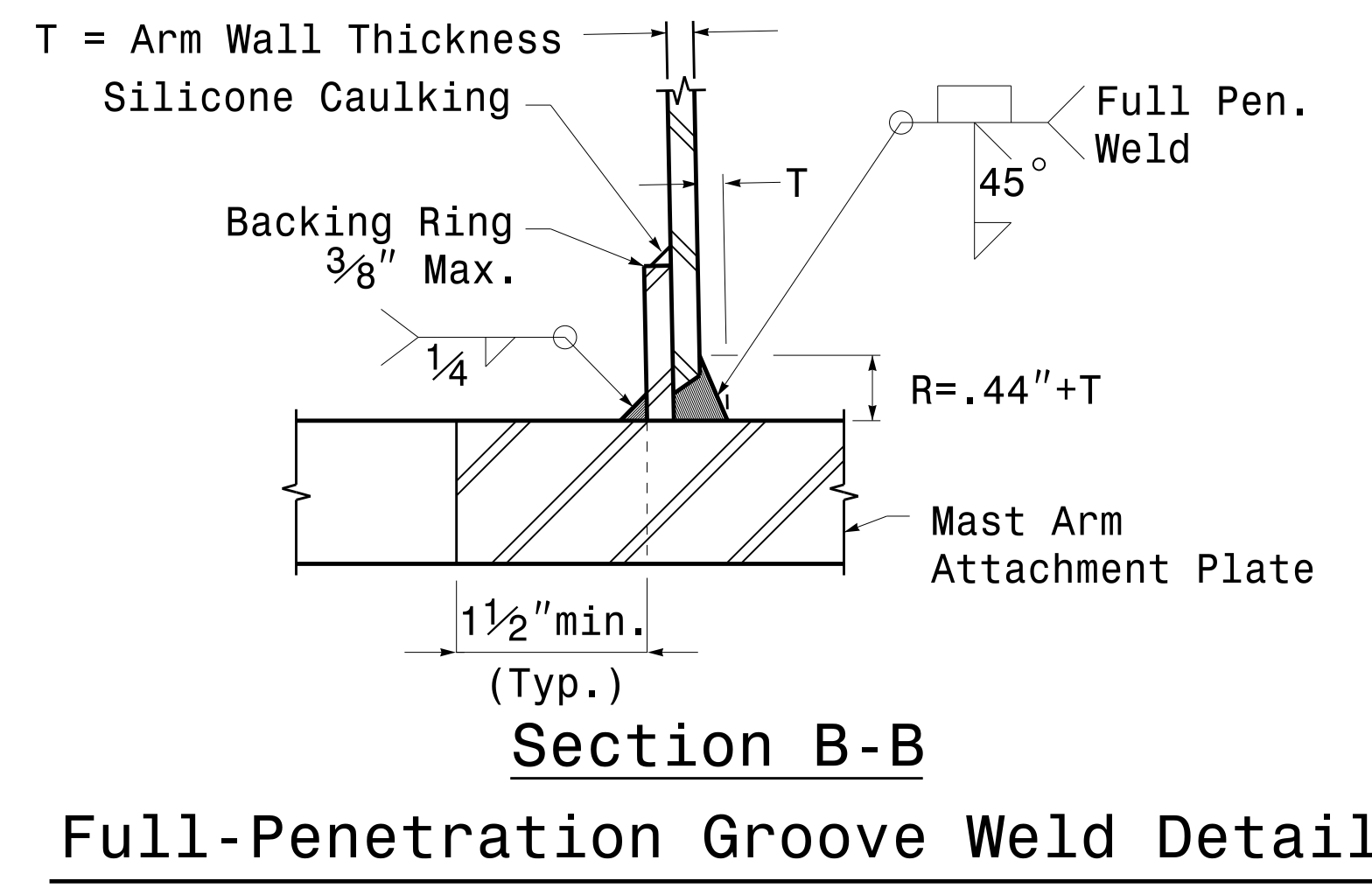
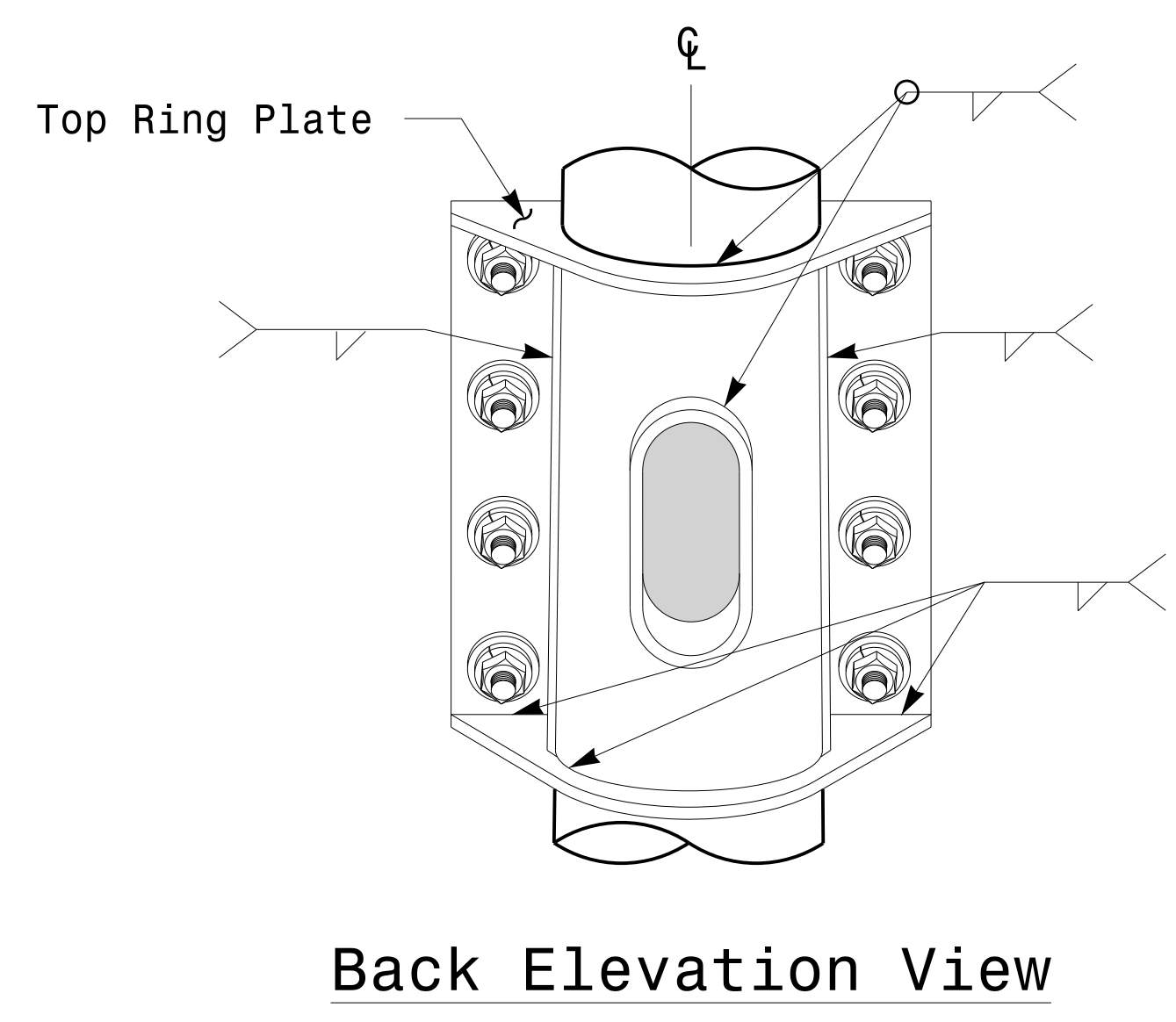
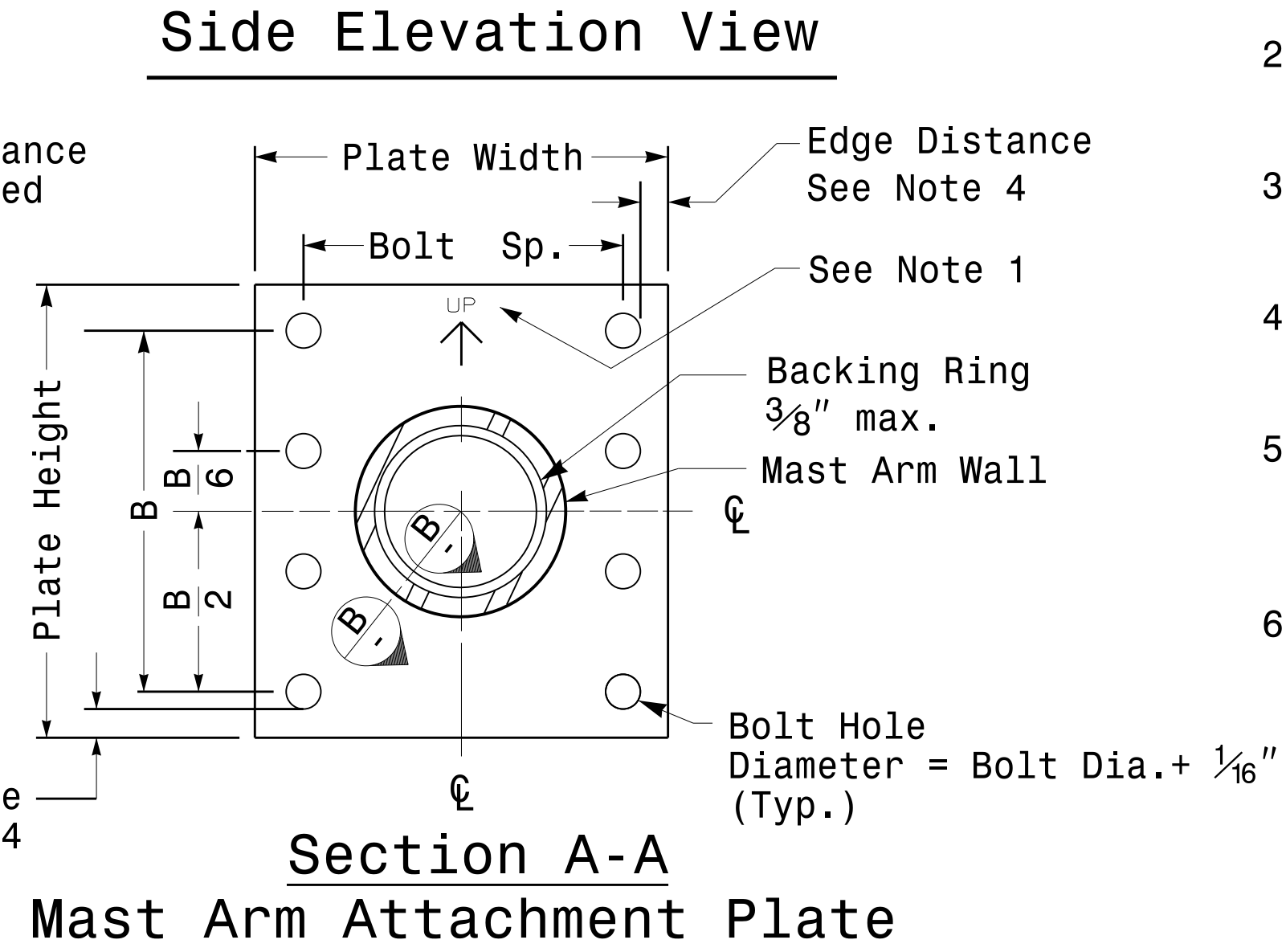
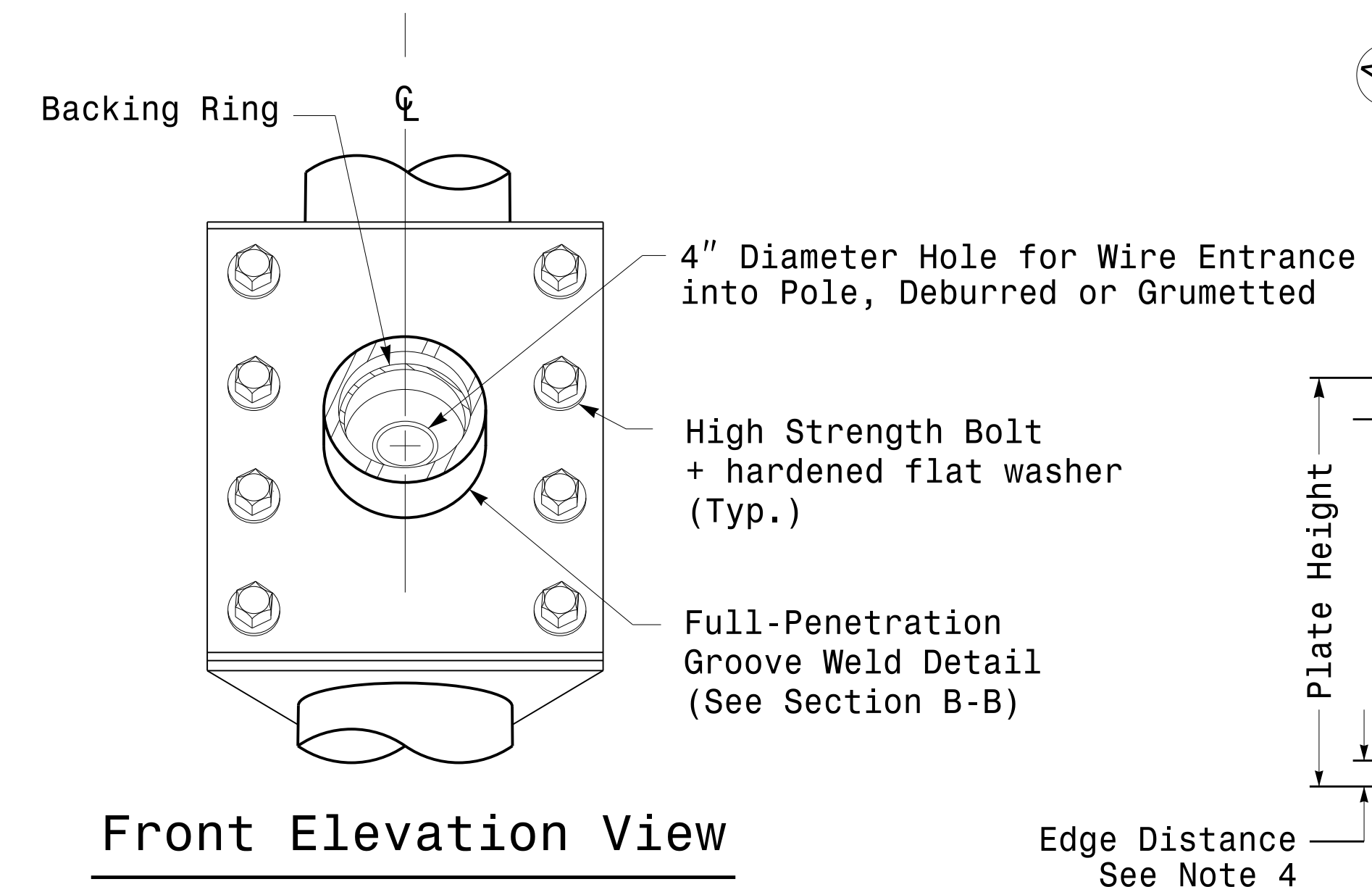
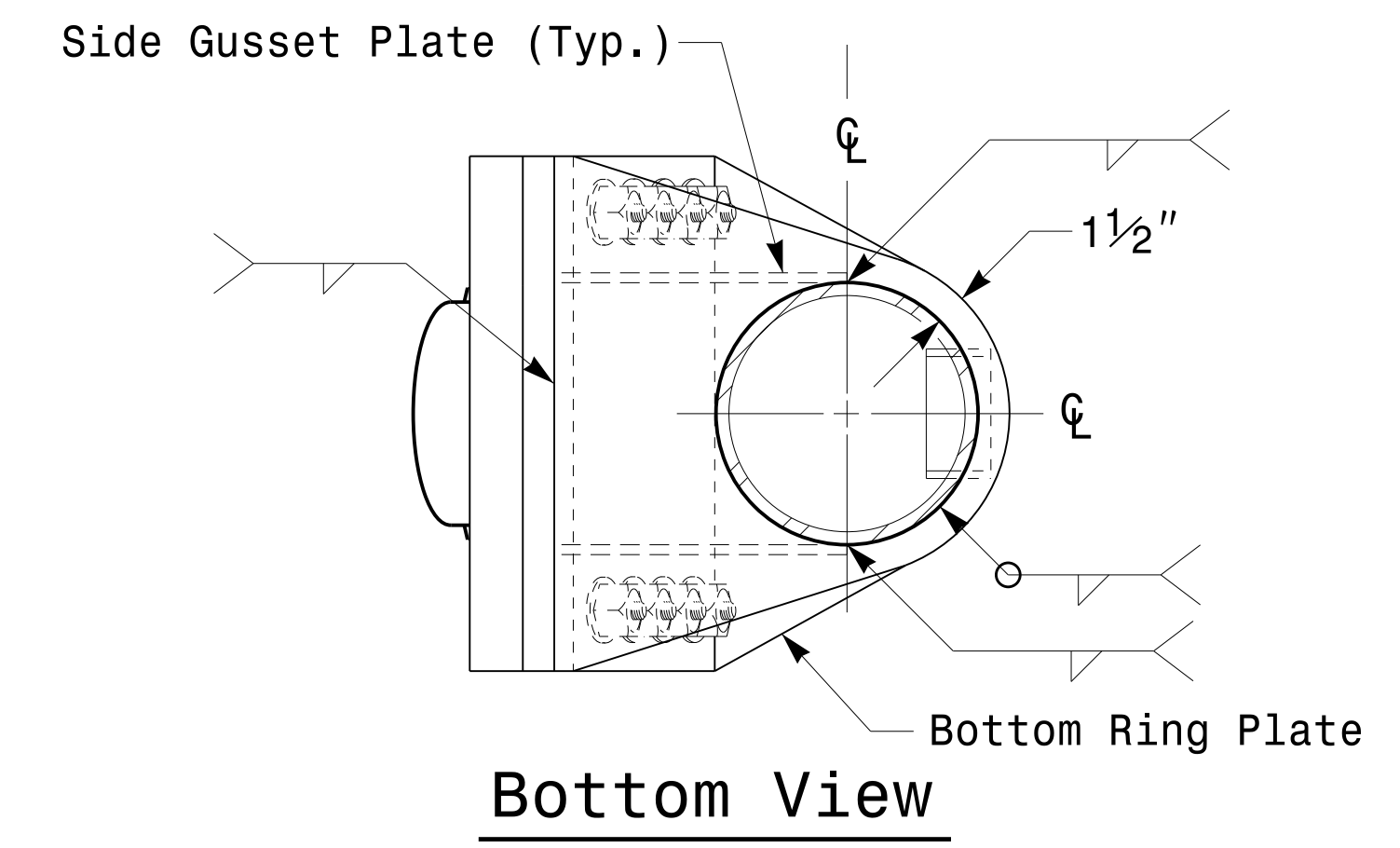
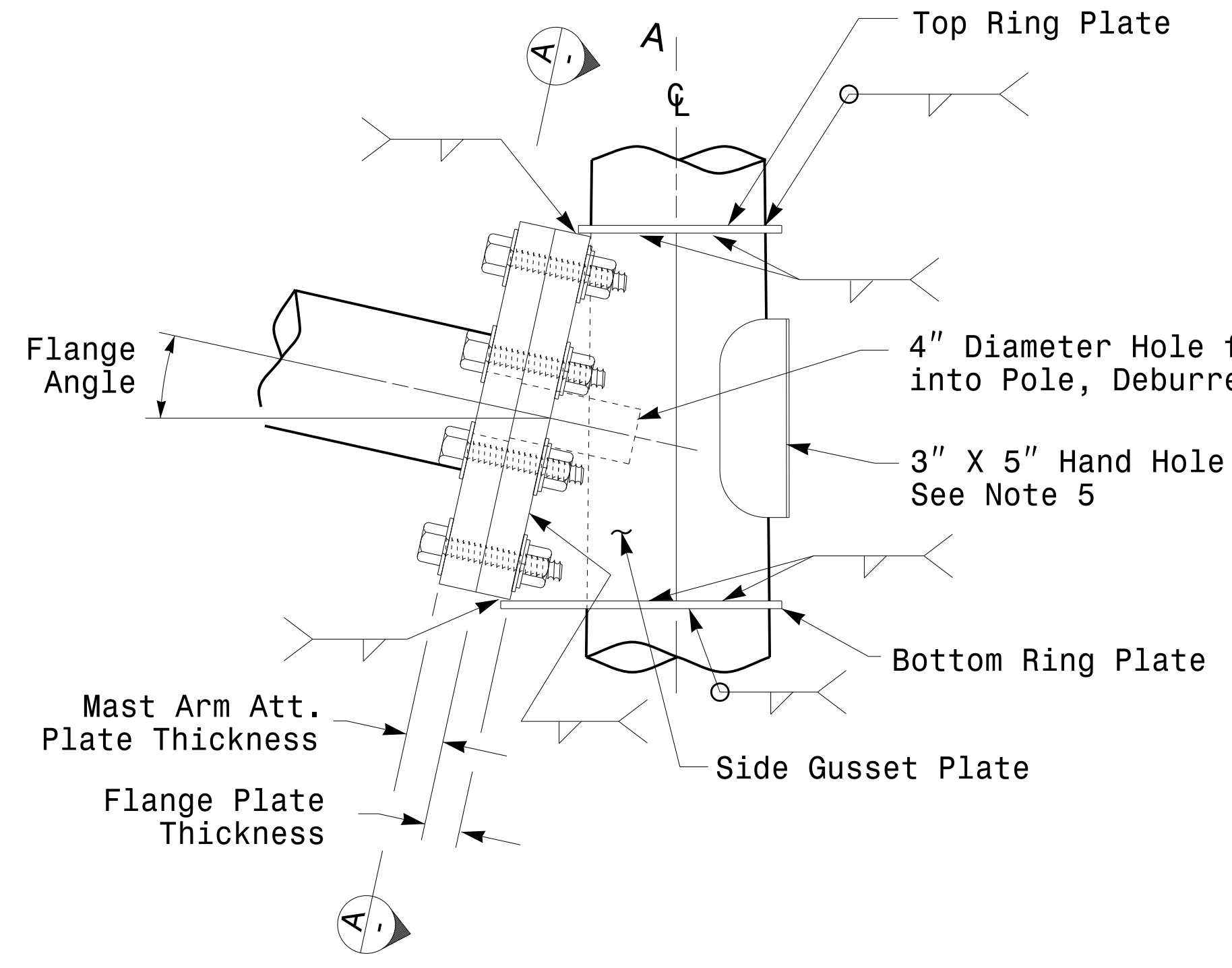
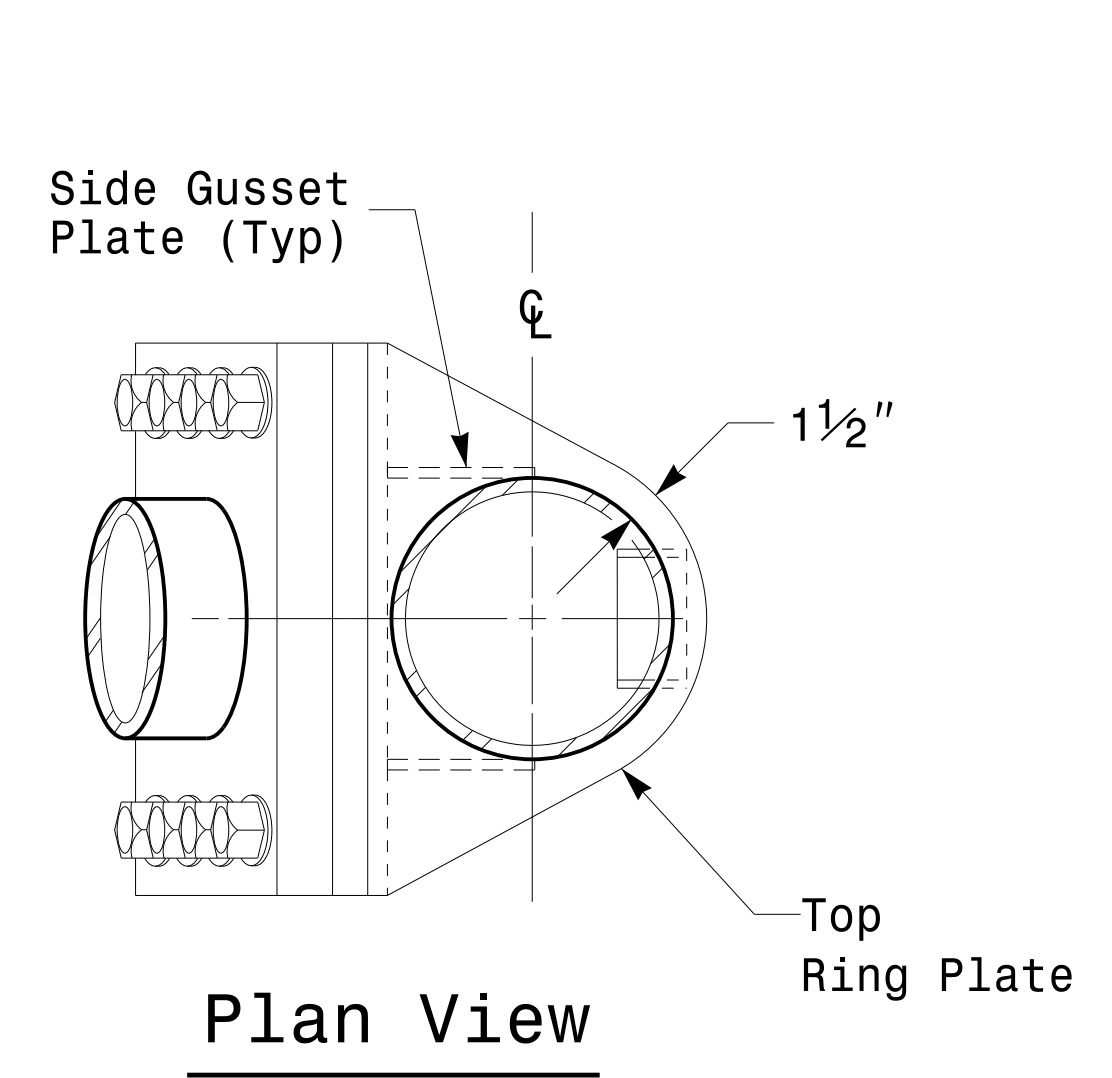
Fabrication Details - Mast Arm Poles

11-OCT-2017 08:33 136504115 Signalis45:gncl Design Section Eastern RegionM4 Sheets20162014 Sig.M4 Std. Fabrication Detail-Mast Arm Poles.dgn

	Typical Fabrication Details For Mast Arm Poles		SEAL
	PLAN DATE: OCTOBER 2017 PREPARED BY: N. BITTING	DESIGNED BY: K.C. DURIGON REVIEWED BY: D.C. SARKAR	
SCALE: 0 NA NONE	DocuSigned by: 		10/11/2017 DATE

Welded Ring Stiffened Mast Arm Connection

PROJECT ID. NO.	SHEET NO.
R-3825B	Sig.M5



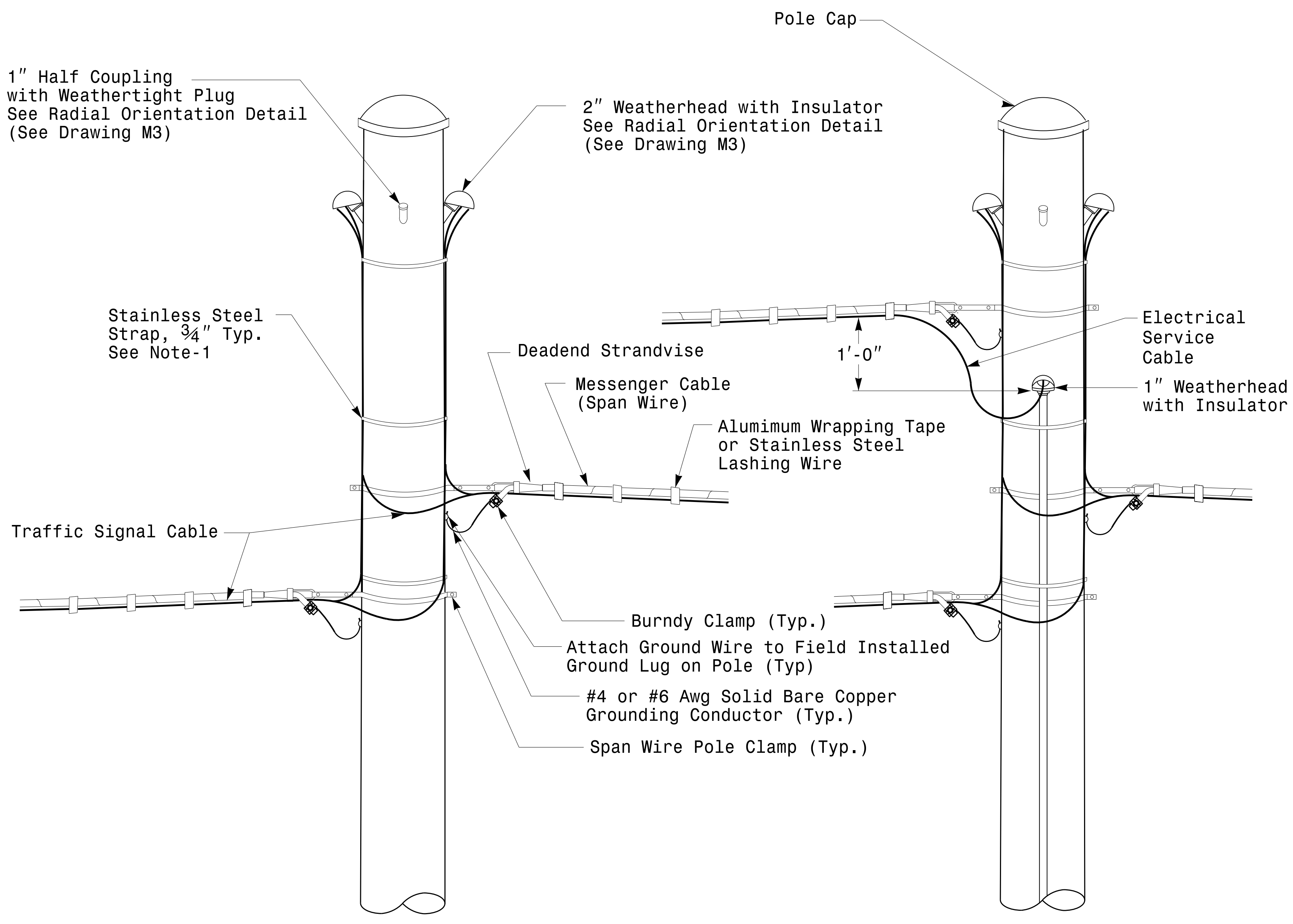
Notes:

1. Provide a permanent means of identification above the mast arm to indicate proper attachment orientation of the mast arm.
2. Designer will determine the size of all structural components, plates, fasteners, and welds shown unless they are already specified.
3. Fabricator is responsible for providing appropriate holes at drainage points to drain galvanizing materials.
4. For minimum edge distance follow AISC Table J3.4 and J3.5. For nominal bolt hole size use Table J3.3.
5. Provide upper handhole as necessary when shaft extensions are required for luminaire arms or camera. For poles without luminaires/camera, wiring can be done through the top of pole.
6. Allowable range of flange tilt angle will vary from 0° to as required.

	Prepared In the Offices of: 		Typical Fabrication Details For Mast Arm Connection To Pole	
	PLAN DATE: OCTOBER 2017 PREPARED BY: N. BITTING	DESIGNED BY: C.F. ANDREWS REVIEWED BY: D.C. SARKAR	REVISIONS INIT. DATE	SCALE 0 NA NONE

Fabrication Details – Mast Arm Connection

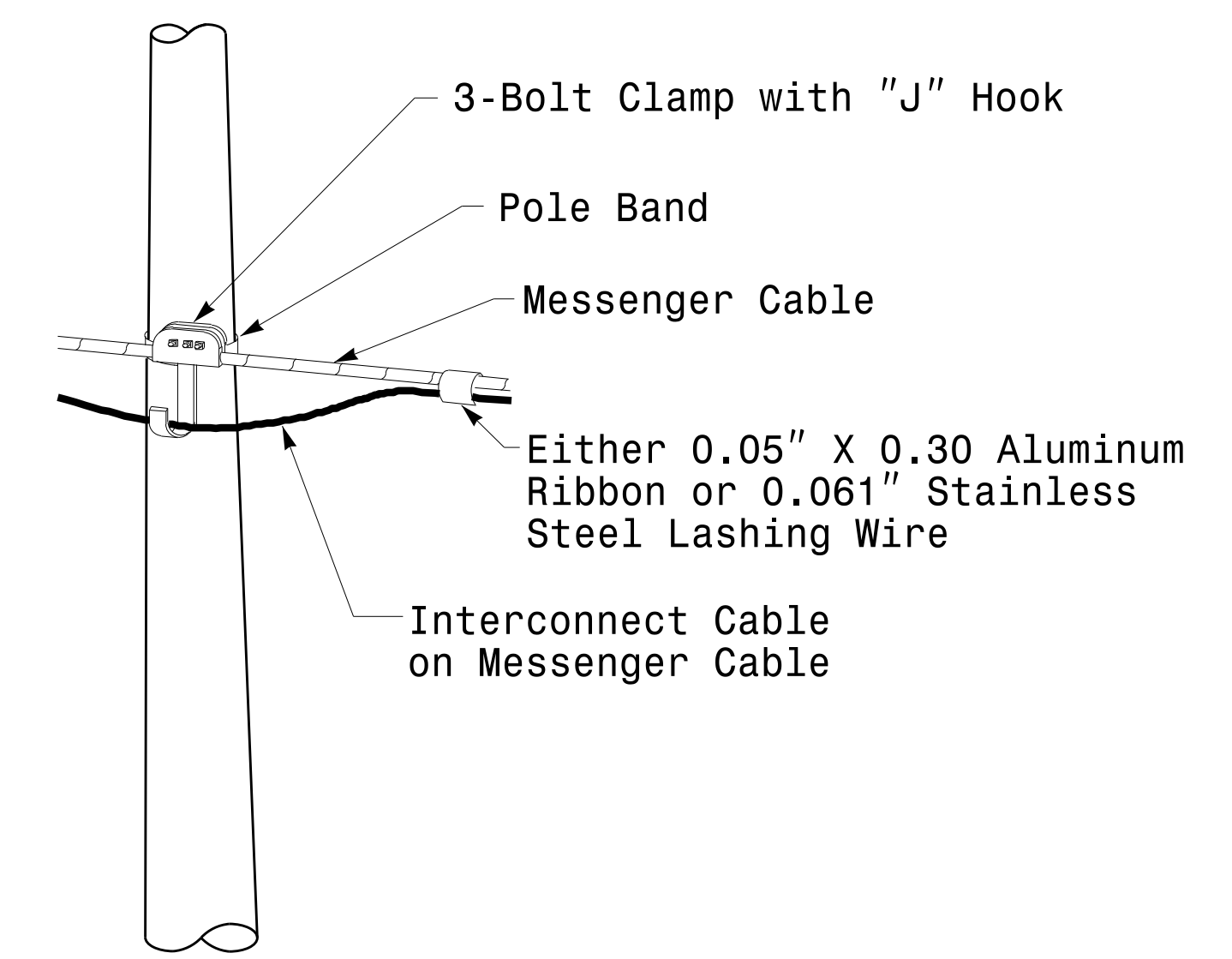
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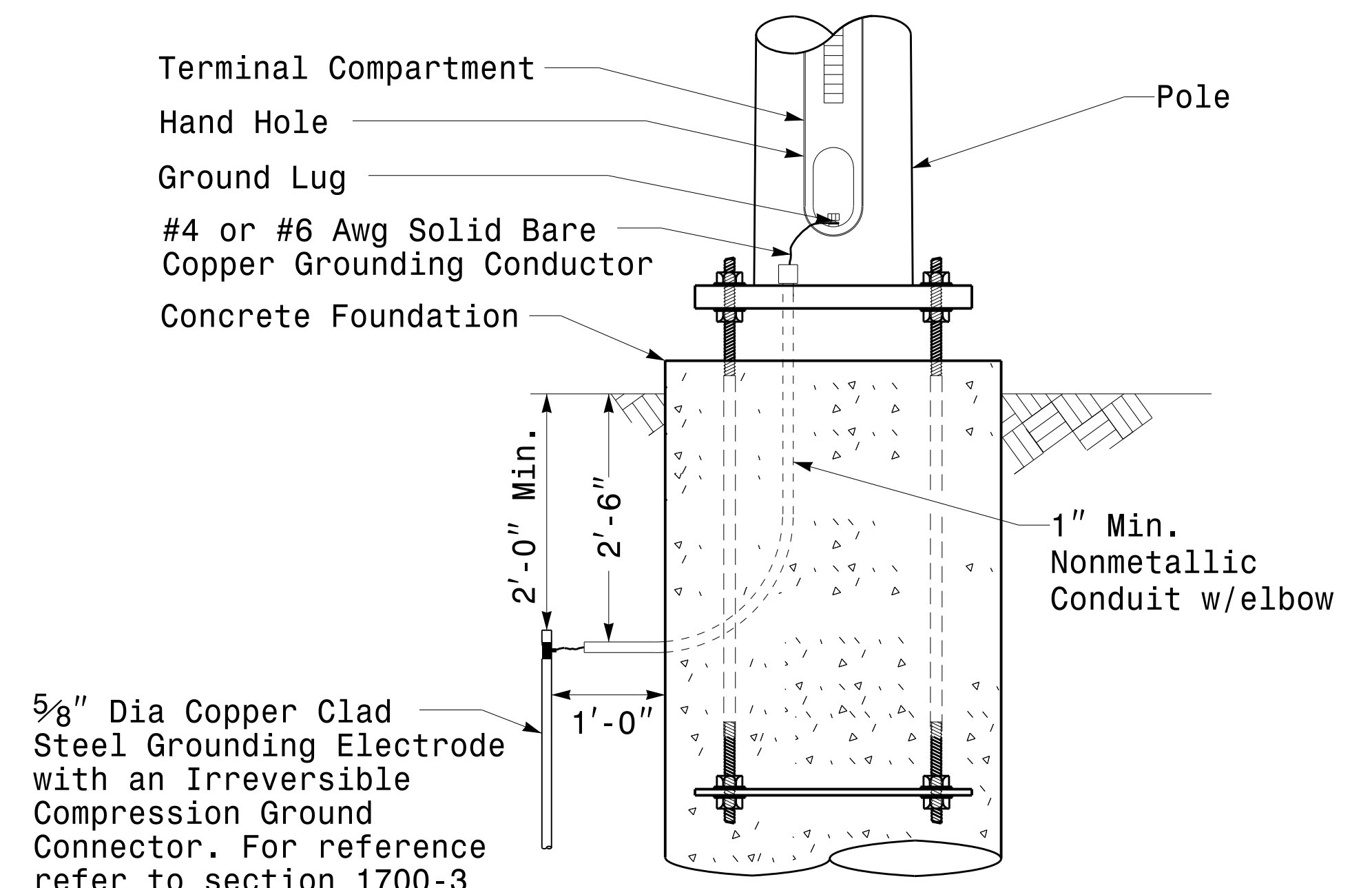
Strain Pole Attachments

NOTE:

1. Strap all signal cables to the side of the pole with 3/4" stainless steel straps when the distance between the spanwire attachment clamp and the weatherheads exceeds 3'-0".
2. Provide minimum two spanwire pole clamps per pole.
3. It is prohibited to attach two span wires at one pole clamp.
4. For general requirements refer to NCDOT Standard Specifications for Roadway and Structures, January 2018.



Attachment of Cable to Intermediate Metal Pole

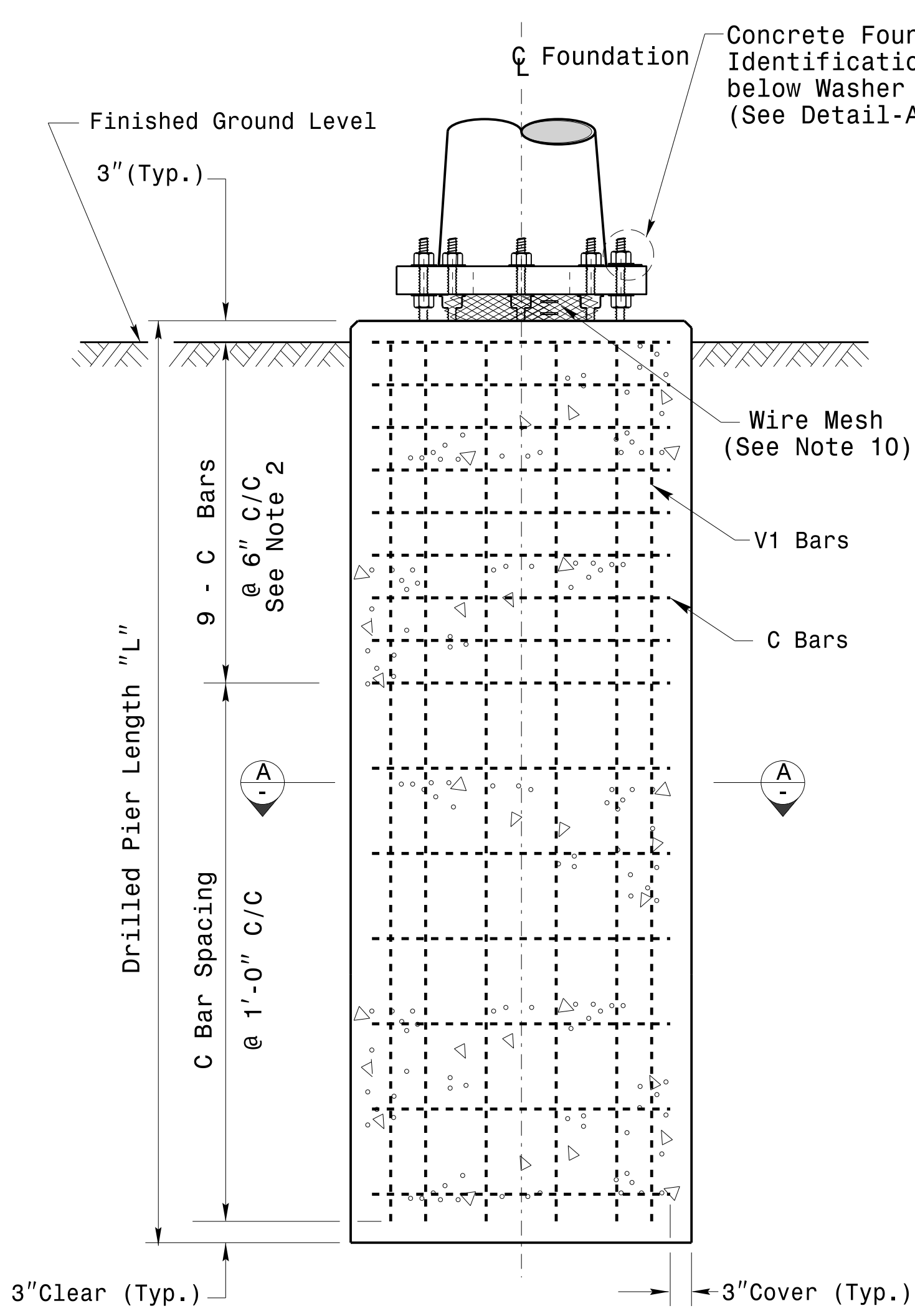


5/8" Dia Copper Clad Steel Grounding Electrode with an Irreversible Compression Ground Connector. For reference refer to section 1700-3 K and L for electrical grounding and bonding requirements, See Note 4.

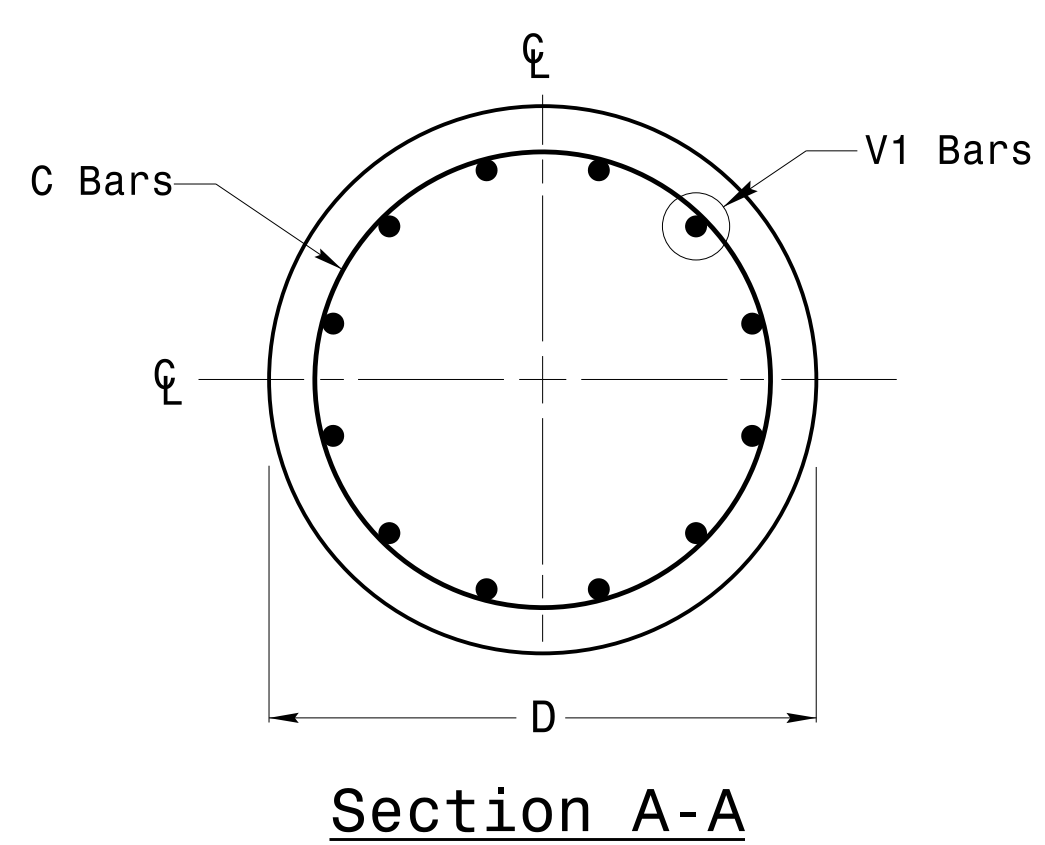
Metal Pole Grounding Detail For Strain Pole and Mast Arm

	Typical Fabrication Details For Strain Pole Attachments		
	PLAN DATE: OCTOBER 2017 PREPARED BY: N. BITTING	DESIGNED BY: C.F. ANDREWS REVIEWED BY: D.C. SARKAR	
SCALE: 0 NA NONE	DocuSigned by: Deshi C. Sarkar 10/11/2017		SEAL DATE

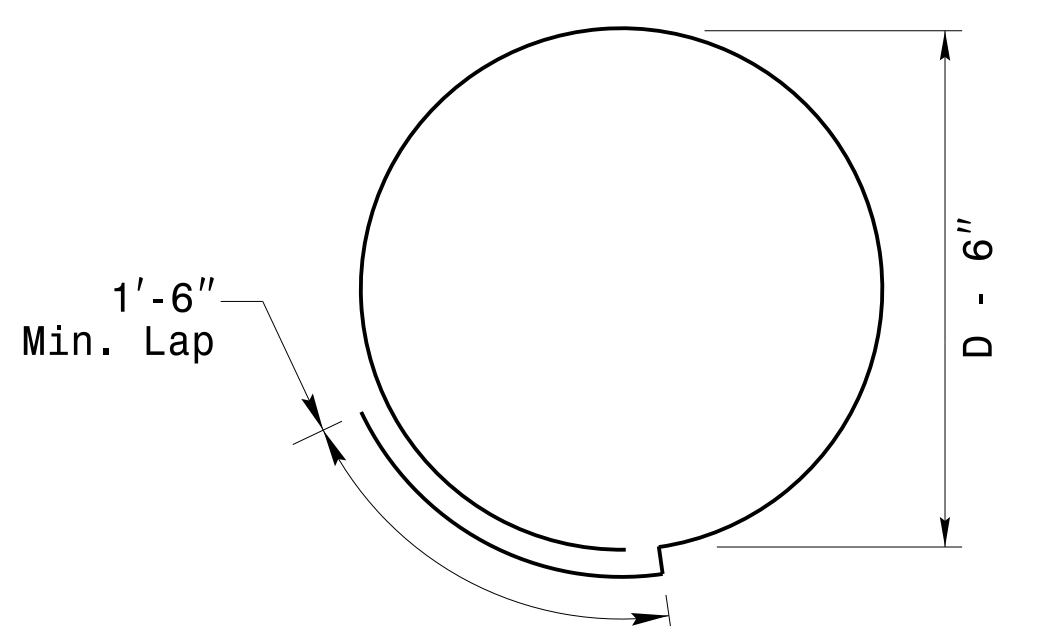
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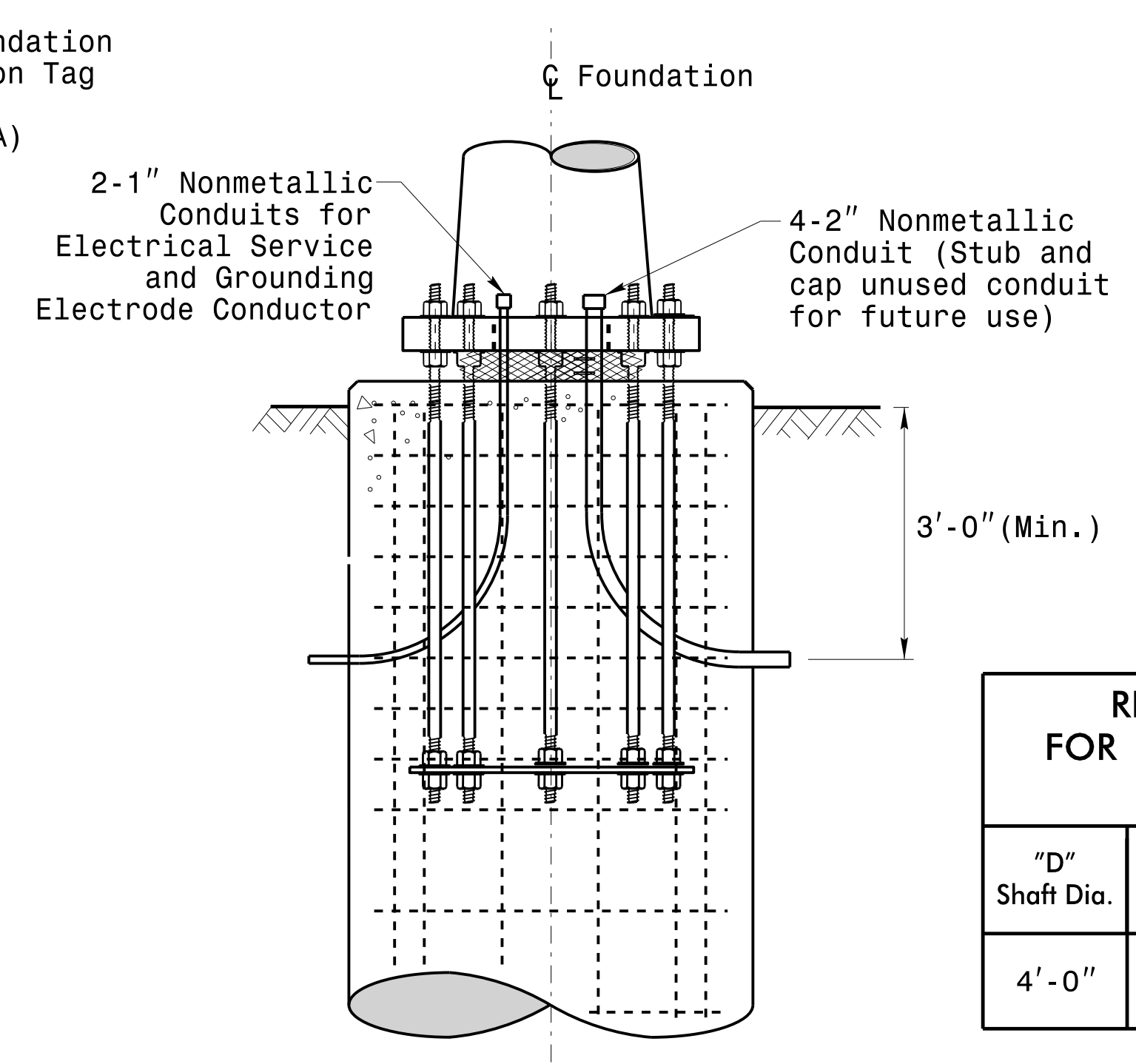
Concrete Shaft Elevation



Section A-A



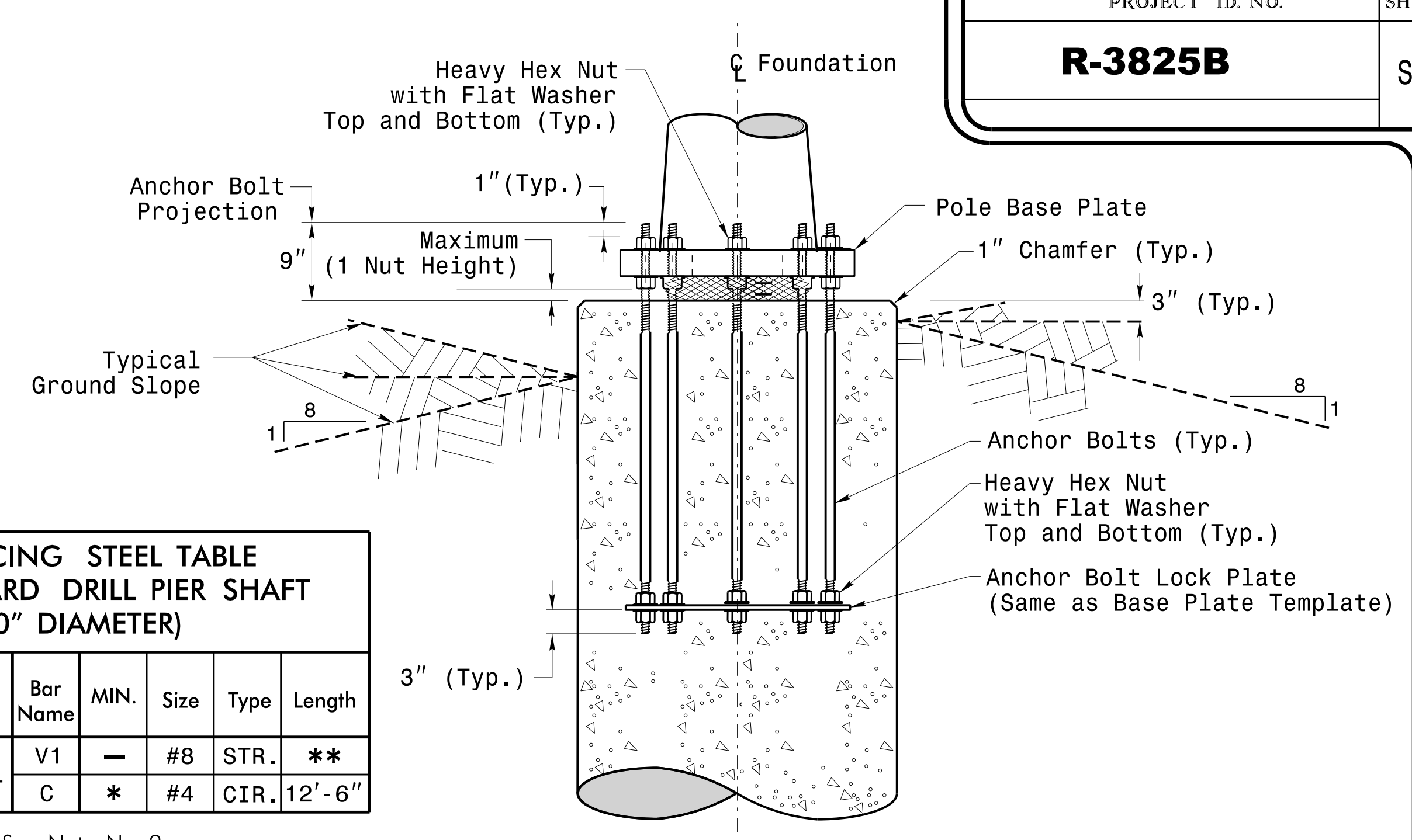
Typical "C" Bar Detail



Typical Foundation Conduit Details

"D" Shaft Dia.	Conc. Volume (cu. yds.)	Bar Name	MIN.	Size	Type	Length
4'-0"	.465 x L	V1	-	#8	STR.	**
		C	*	#4	CIR.	12'-6"

* See Note No. 2
 ** See Note No. 3

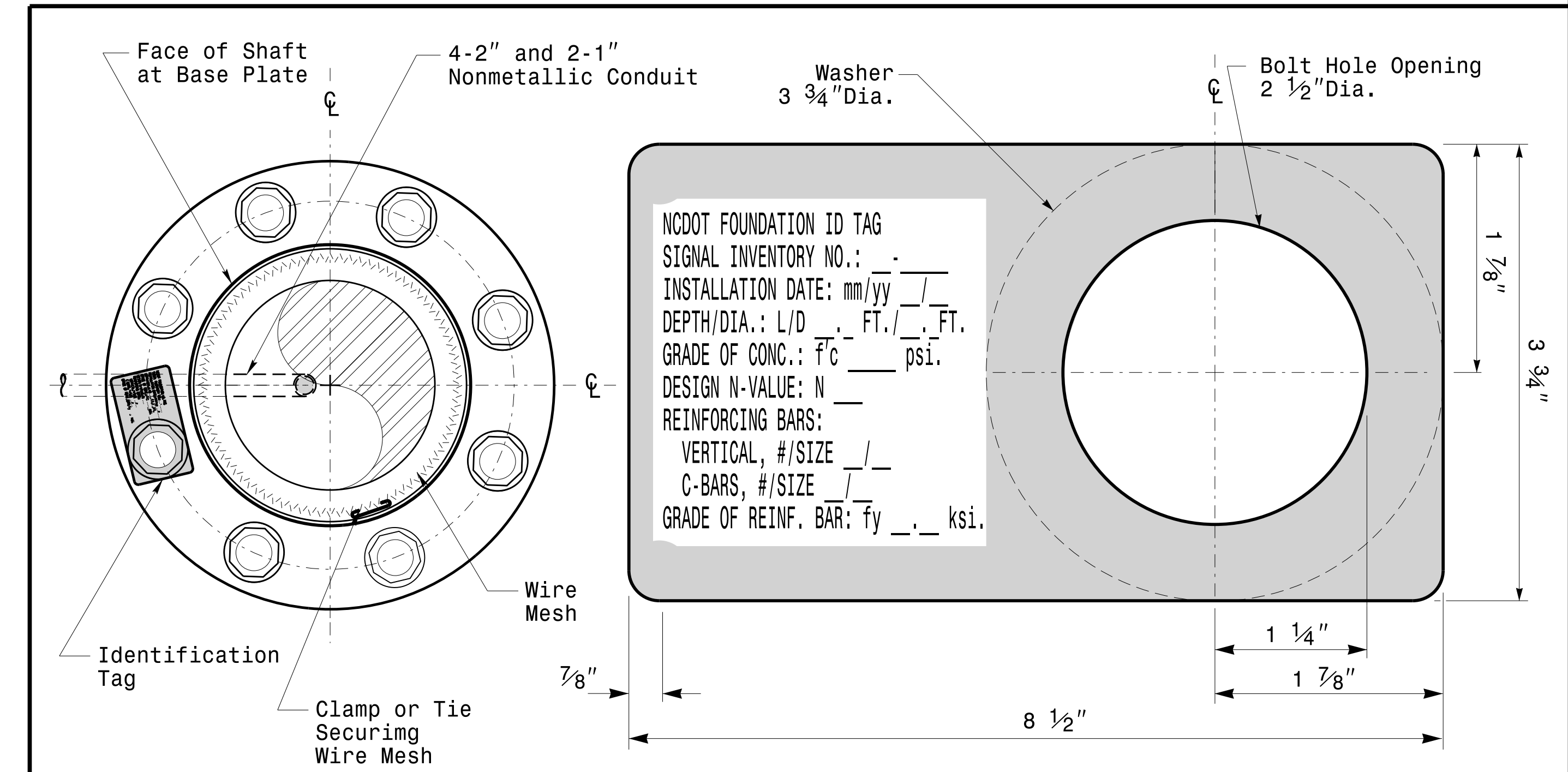


Typical Foundation Anchor Bolt Details

(Reinforcing Cage Not Shown for Clarity)

General Notes:

1. If actual subsurface conditions differ significantly from boring data contact the Engineer before excavating or placing concrete.
2. Circular tie reinforcing rings may be vertically adjusted by +/-3" at a depth between 2'-0" and 3'-0" to facilitate the installation of electrical conduit entering in the cage.
3. For standard foundations, see sheet Sig. M8 for details. Vertical reinforcing bars (V1) may be horizontally adjusted by +/-3" to facilitate the installation of electrical conduit entering into the cage.
4. Provide 2" to 5" foundation projection above ground level depending on the ground slope.
5. Unless otherwise shown, foundation designs are based on non-sloping level ground surfaces with slope ratios of 8:1 (H:V) or flatter. If actual ground line slopes are steeper contact the Engineer before excavating or placing concrete.
6. Construct foundations in accordance with NCDOT Standard Provisions SP09 R005- Foundations and Anchor Rod Assemblies for Metal Poles. All applicable 2018 NCDOT Standard Specifications are referenced in this provision. Refer to the NCDOT Resources/Specifications page located on the Connect NCDOT website.
<https://connect.ncdot.gov/resources/Specifications and Special Provisions.aspx>
7. Use air entrained AA concrete mix with a compression strength of f'c=4500 psi.(min.) after 28 days.
8. Use ASTM A615 grade 60 deformed bars for all reinforcing steel. Maintain at least 3" cover on all reinforcement.
9. Locate the Identification Tag on the top of the base plate, directly above the conduit's entry point.
10. Provide two layers of galvanized welded 23 gauge (0.25) 6" wide 4 mesh wire around pipes under the base plate and secure it with ties if necessary.
11. Preferred location for the I.D. Tag is as shown in Detail-A; directly above the conduit entering the foundation.



Concrete Foundation Identification Tag Details

D = Diameter
 L = Length/Depth
 mm = Month
 yy = Year

Detail-A

<p>750 N. Greenfield Pkwy, Garner, NC 27529</p>	<p>Construction Details For Foundations</p>		
	<p>PLAN DATE: OCTOBER 2018</p> <p>DESIGNED BY: C.B. COGDILL</p> <p>PREPARED BY: N. BITTING</p> <p>REVIEWED BY: D.C. SARKAR</p>	<p>REV. NO.</p> <p>COMMENTS</p> <p>INIT.</p> <p>DATE</p>	

Construction Details - Foundations

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 13560W115-Strain@sigal Design Section Eastern Region\m\Sheets\2016\2014_Sig.M7_Shd_Construction_Detail\Is-Strain_Poles.dgn
 PLOT

- 1 INSTALL REA, PE – 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 2 INSTALL REA, PE – 38, (FIGURE – 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 3 INSTALL REA, PE – 39, (UNDERGROUND) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 4 INSTALL SMFO CABLE
- 5 INSTALL MMFO CABLE
- 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 OUTER-DUCT POLYETHYLENE CONDUIT
- 14 INSTALL POLYETHYLENE CONDUIT
- 15 DIRECTIONAL DRILL CONDUIT
- 16 BORE AND JACK CONDUIT
- 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
- 26 TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
- 27 INSTALL NEW TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER 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 INSTALL POLE MOUNTED SPLICE CABINET
- 32 INSTALL BASE MOUNTED SPLICE CABINET
- 33 REMOVE EXISTING SPLICE CABINET

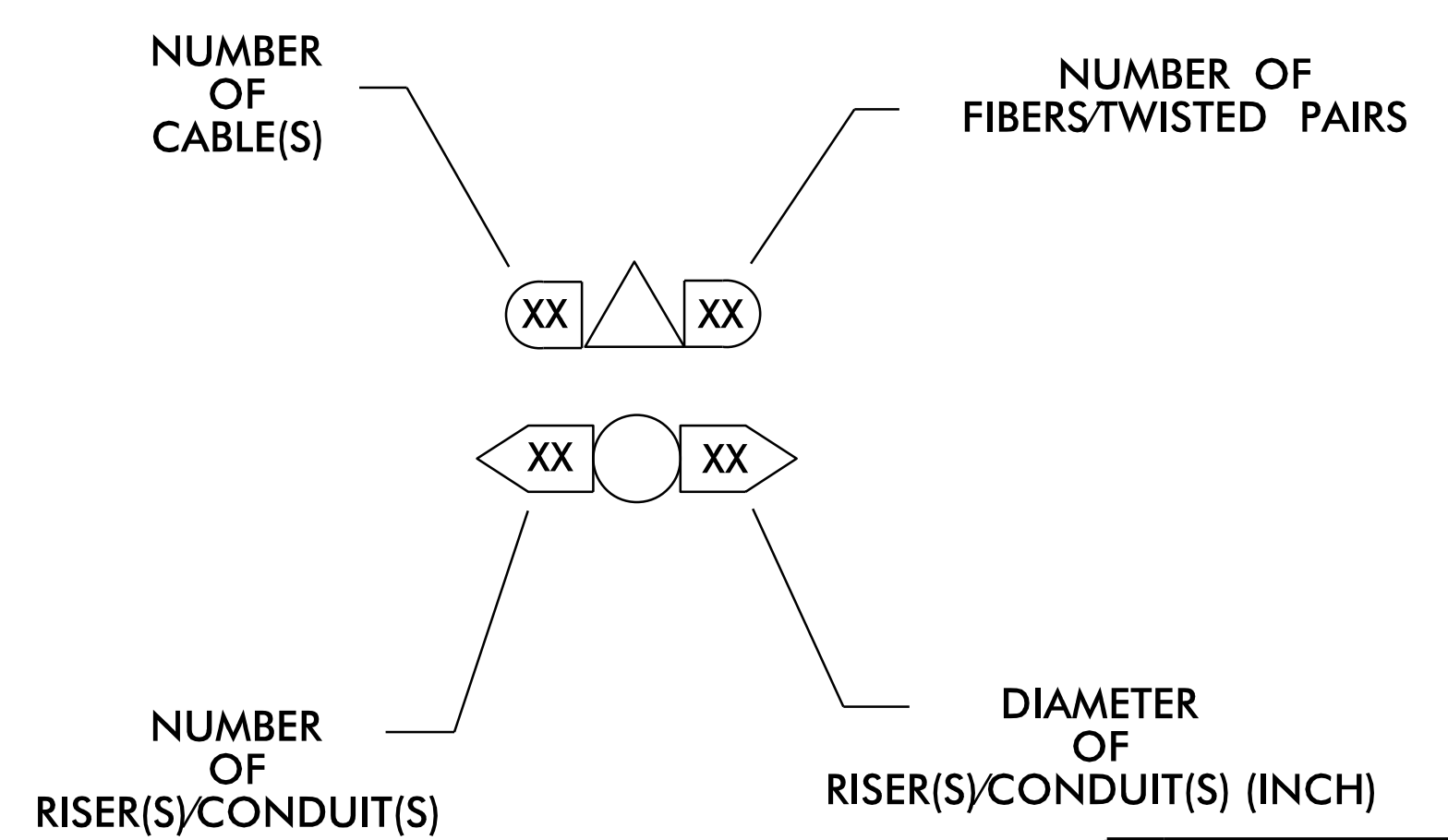
- 34 INSTALL CABINET FOUNDATION
- 35 REMOVE EXISTING CABINET FOUNDATION
- 36 INSTALL CCTV CAMERA ASSEMBLY
- 37 INSTALL CCTV CAMERA WOOD POLE
- 38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION
- 39 INSTALL JUNCTION BOX
- 40 INSTALL OVERSIZED JUNCTION BOX
- 41 REMOVE EXISTING JUNCTION BOX
- 42 INSTALL WOOD POLE
- 43 REMOVE EXISTING WOOD POLE
- 44 INSTALL AERIAL GUY ASSEMBLY
- 45 INSTALL STANDARD GUY ASSEMBLY
- 46 INSTALL SIDEWALK GUY ASSEMBLY
- 47 INSTALL MESSENGER CABLE
- 48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE
- 49 REMOVE EXISTING COMMUNICATIONS CABLE
- 50 INSTALL TELEPHONE SERVICE
- 51 INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
- 52 INSTALL DELINEATOR MARKER
- 53 STORE 20 FEET OF 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 MODIFY EXISTING ELECTRICAL SERVICE
- 58 INSTALL NEW ELECTRICAL SERVICE
- 59 INSTALL ETHERNET EDGE SWITCH

LEGEND

- FO NEW FIBER OPTIC COMMUNICATIONS CABLE
- TWIST PR NEW TWISTED PAIR COMMUNICATIONS CABLE
- EXI EXISTING COMMUNICATIONS CABLE
- REM EXISTING COMMUNICATIONS CABLE TO BE REMOVED
- NEW AERIAL GUY ASSEMBLY
- EXISTING CONDUIT
- NEW DIRECTIONAL DRILLED CONDUIT
- NEW BORED AND JACKED CONDUIT
- NEW JUNCTION BOX
- EXISTING JUNCTION BOX
- NEW WOOD POLE
- EXISTING WOOD POLE
- NEW ENCLOSURE
- NEW METAL POLE
- EXISTING METAL POLE
- NEW CCTV CAMERA ASSEMBLY
- NEW STANDARD GUY ASSEMBLY
- NEW STANDARD GUY USING EXISTING ANCHOR
- NEW SIDEWALK GUY ASSEMBLY
- NEW CABLE STORAGE RACKS (SNOW SHOES)
- EXISTING CONTROLLER AND CABINET
- EXISTING SPLICE CABINET
- NEW SPLICE CABINET
- SP SIGNAL POLE
- XX-XXXX SIGNAL INVENTORY NUMBER

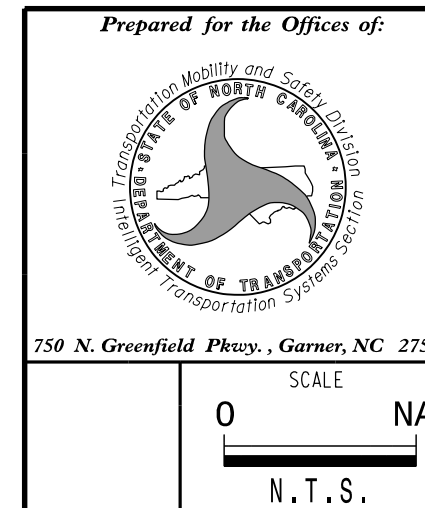
CONSTRUCTION NOTE SYMBOLOGY KEY

- 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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URS
 URS Corporation – North Carolina
 1600 Perimeter Park Drive
 Morrisville, North Carolina 27560
 TELEPHONE (919) 461-1100 FAX (919) 461-1415
 NC LICENSE # C-2243

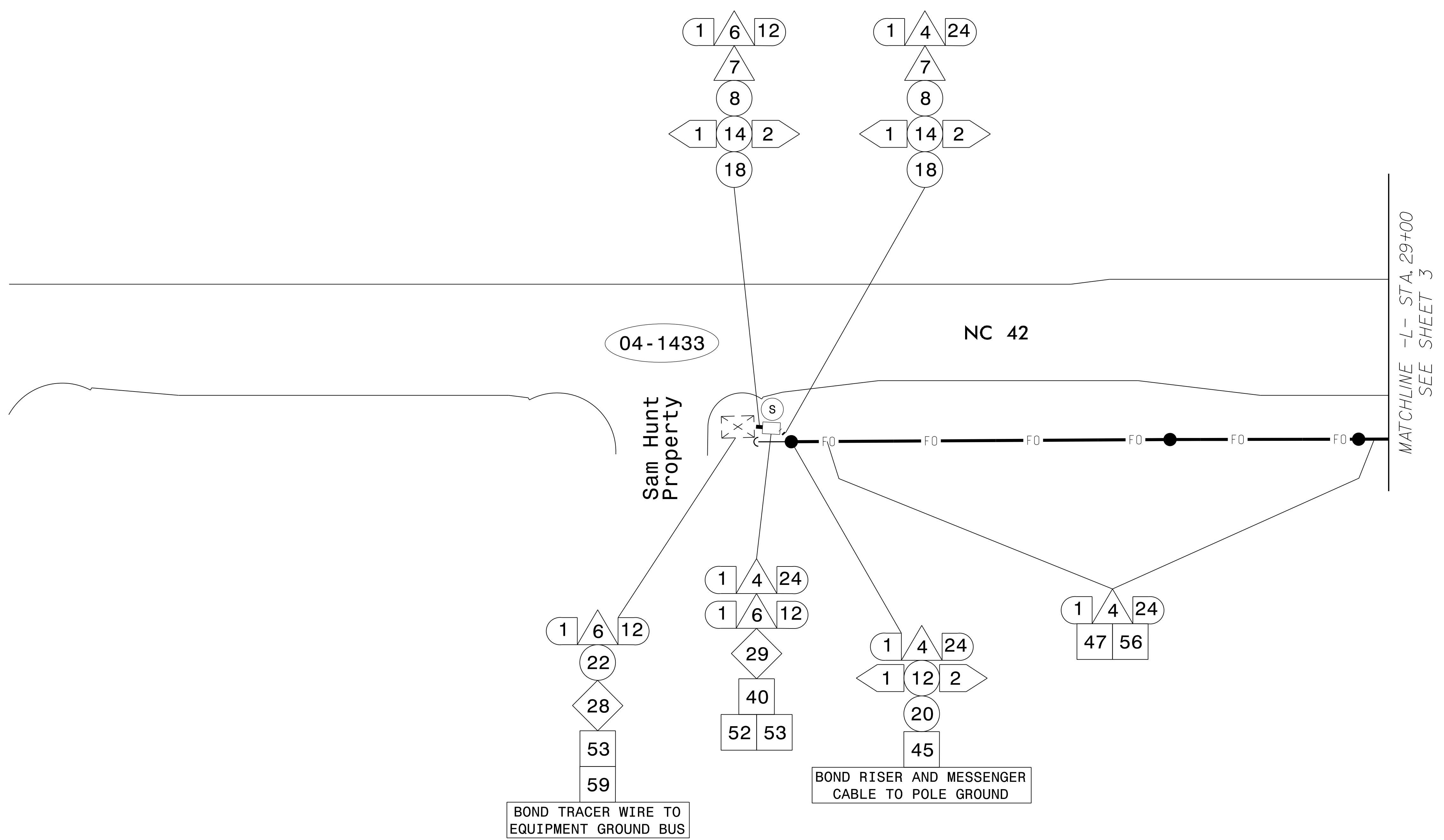


Construction Notes	
Division 4 Johnston County Clayton	
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE

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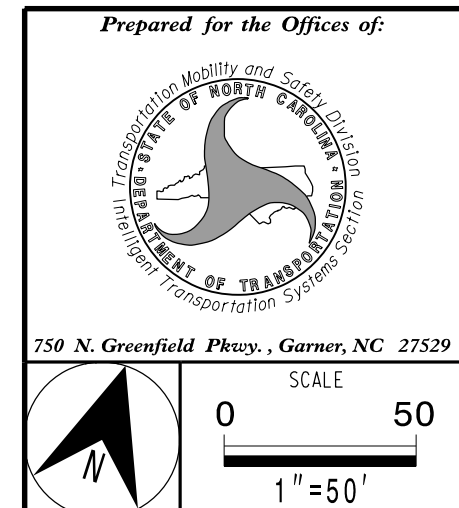
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2. NOTIFY THE NCDOT DIVISION 4 TRAFFIC ENGINEER, ANDY BROWN, AT (252) 640-6505 EXT 3544, FIVE (5) DAYS PRIOR TO BEGINNING WORK ON SIGNAL SYSTEM COMMUNICATIONS CABLE. NOTIFY THE DIVISION 4 TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED. ALL WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS OPERATIONAL.

BOND TRACER WIRE TO EQUIPMENT GROUND BUS

BOND RISER AND MESSENGER CABLE TO POLE GROUND

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Communications Cable and Conduit Routing Plans	
Division 4 Johnston County Clayton	
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE

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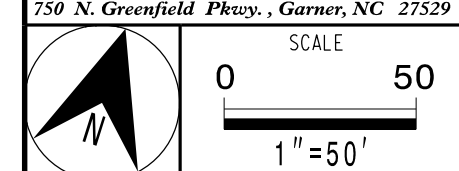
NORTH CAROLINA PROFESSIONAL ENGINEER

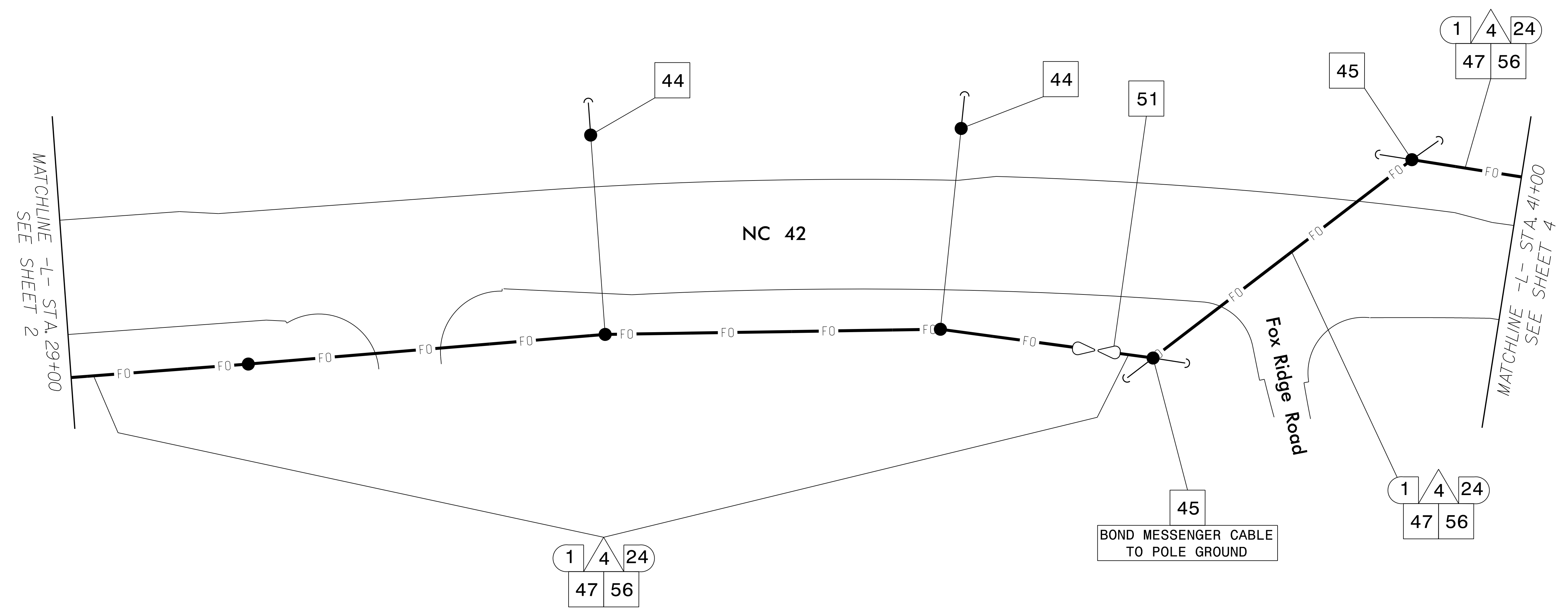
STEVEN W. COX

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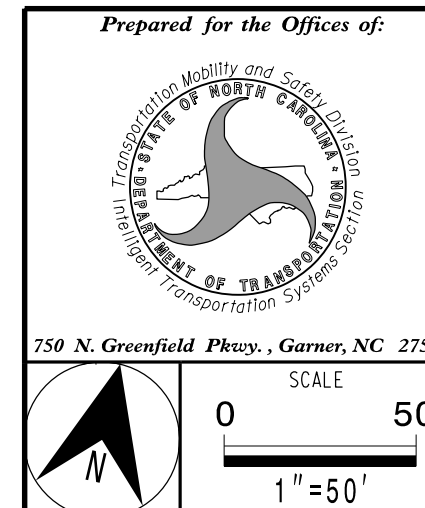


NOTES:

1. ALL CABLE ATTACHMENT POINTS ARE 40" BELOW NEUTRAL UNLESS OTHERWISE NOTED.
2. NOTIFY THE NCDOT DIVISION 4 TRAFFIC ENGINEER, ANDY BROWN, AT (252) 640-6505 EXT 3544, FIVE (5) DAYS PRIOR TO BEGINNING WORK ON SIGNAL SYSTEM COMMUNICATIONS CABLE. NOTIFY THE DIVISION 4 TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED. ALL WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS OPERATIONAL.

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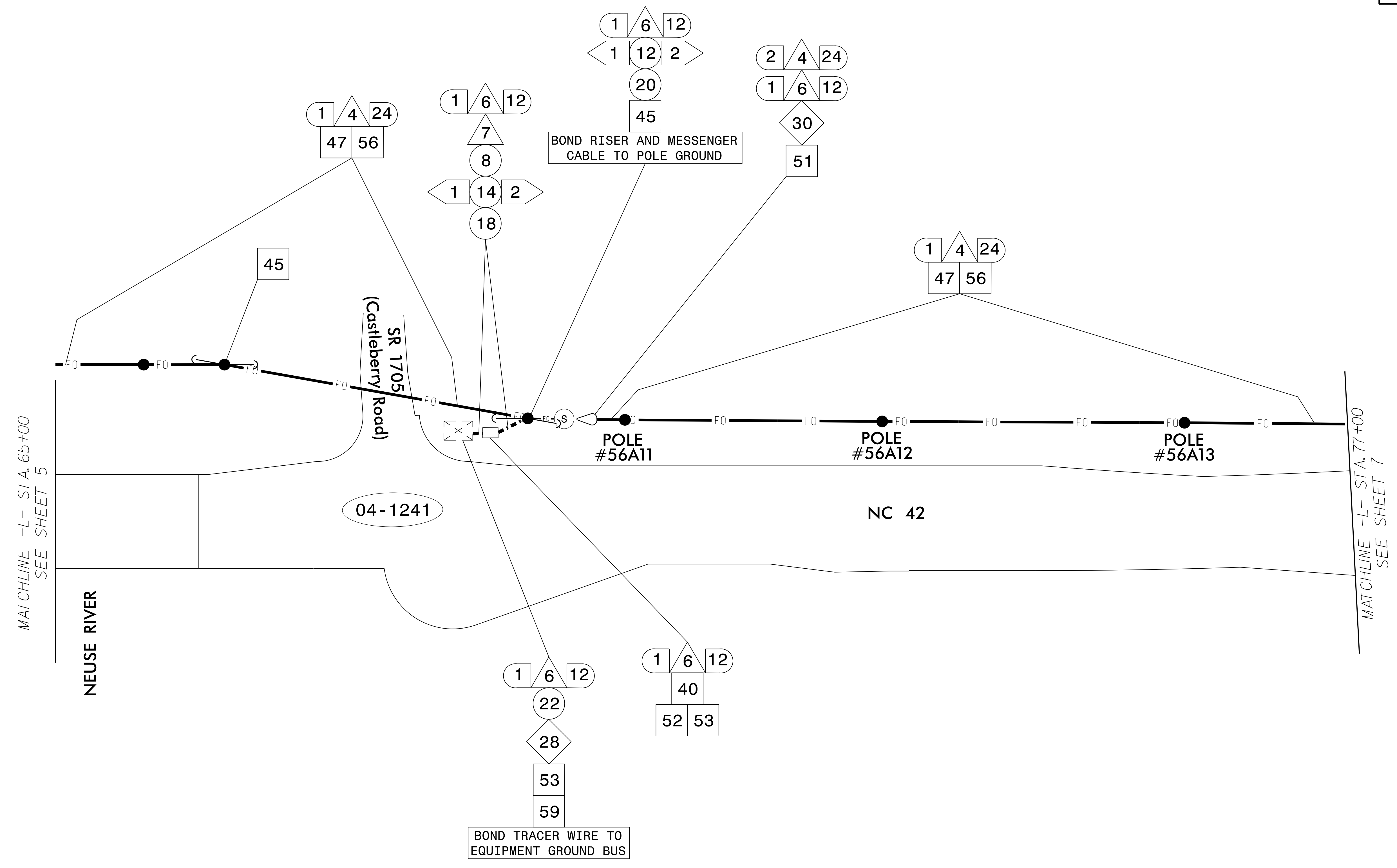


Communications Cable and Conduit Routing Plans	
Division 4 Johnston County Clayton	
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE

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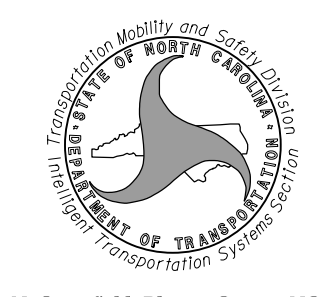


NOTES:

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 NC LICENSE # C-2243

Prepared for the Offices of:

 750 N. Greenfield Pkwy., Garner, NC 27529
 SCALE 0 50
 1"=50'

Communications Cable and Conduit Routing Plans

Division 4 Johnston County Clayton

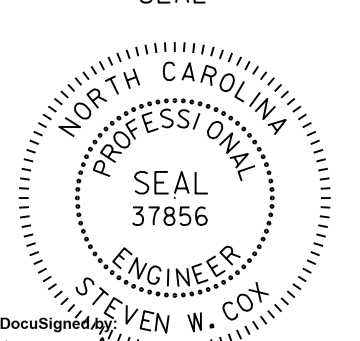
PLAN DATE: January 2018 REVIEWED BY: C. L. Kalencik

PREPARED BY: S. W. Cox REVIEWED BY:

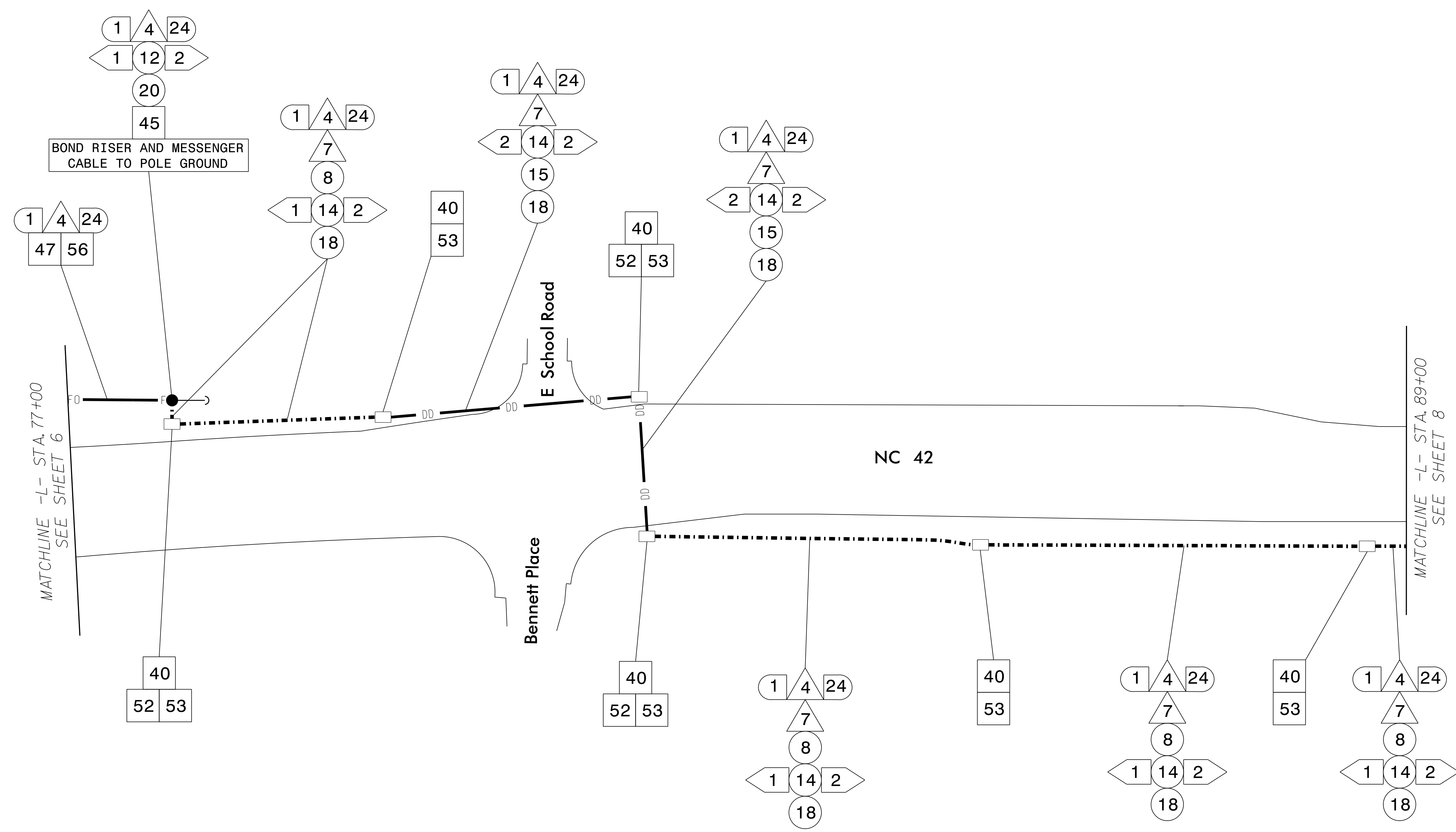
REVISIONS	INIT.	DATE

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SEAL



STEVEN W. COX
 5/25/2018
 CADD Filename:



NOTES:

1. ALL CABLE ATTACHMENT POINTS ARE 40" BELOW NEUTRAL UNLESS OTHERWISE NOTED.
2. NOTIFY THE NCDOT DIVISION 4 TRAFFIC ENGINEER, ANDY BROWN, AT (252) 640-6505 EXT 3544, FIVE (5) DAYS PRIOR TO BEGINNING WORK ON SIGNAL SYSTEM COMMUNICATIONS CABLE. NOTIFY THE DIVISION 4 TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED. ALL WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS OPERATIONAL.

5/25/2018
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COAS1

Prepared by
URS
 URS Corporation - North Carolina
 1600 Perimeter Park Drive
 Morrisville, North Carolina 27560
 TELEPHONE (919) 461-1100 FAX (919) 461-1415
 NC LICENSE # C-2243

Prepared for the Offices of:

 750 N. Greenfield Pkwy., Garner, NC 27529
 SCALE
 0 50
 1"=50'

Communications Cable and Conduit Routing Plans

Division 4 Johnston County Clayton

PLAN DATE: January 2018 REVIEWED BY: C. L. Kalencik

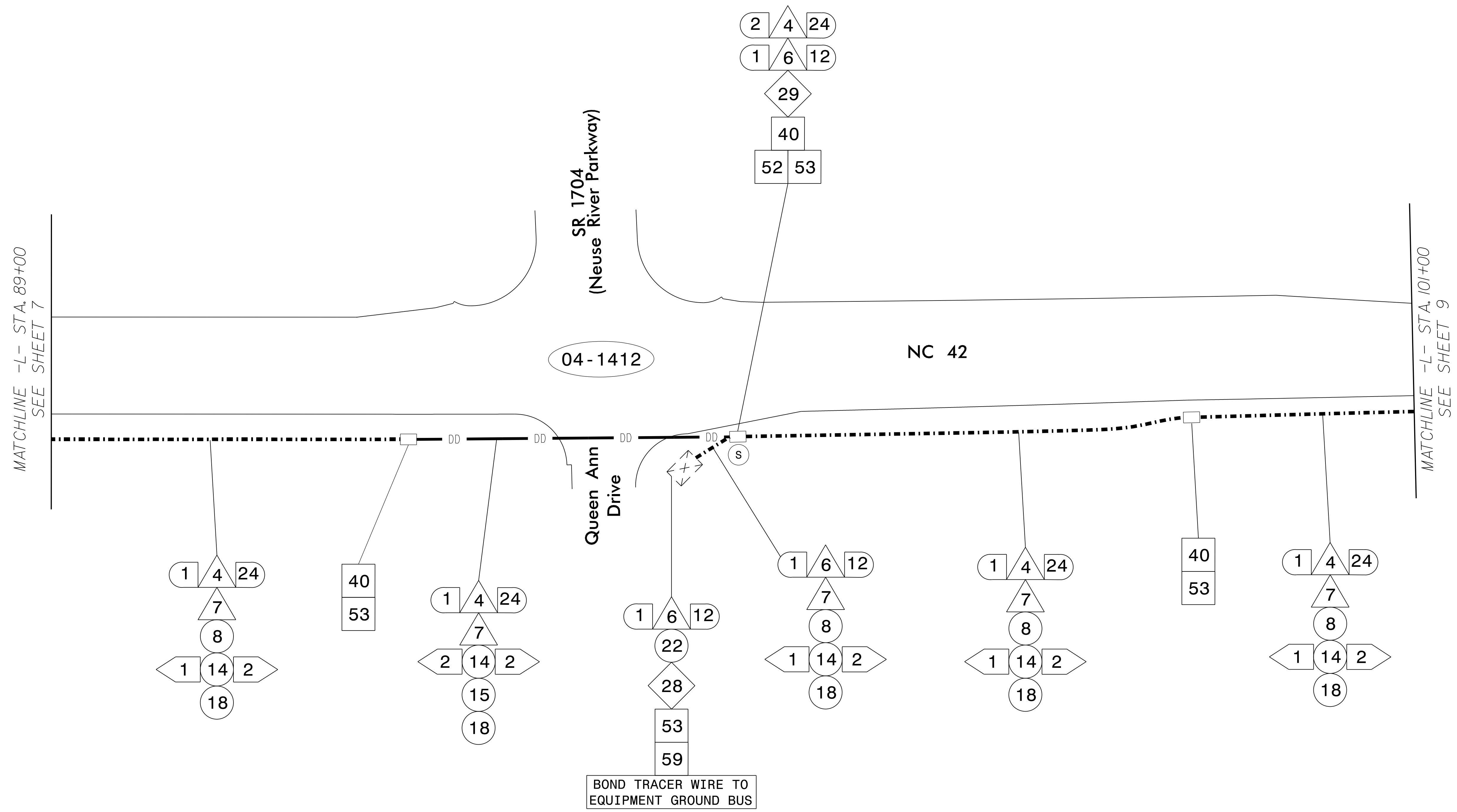
PREPARED BY: S. W. Cox REVIEWED BY:

REVISIONS	INIT.	DATE

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STEVEN W. COX
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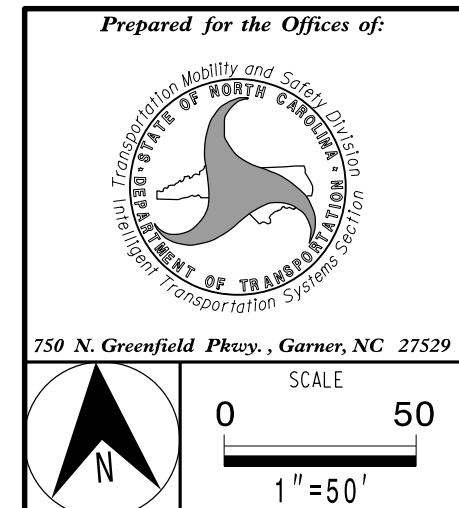


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5/25/2018
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 NC LICENSE # C-2243

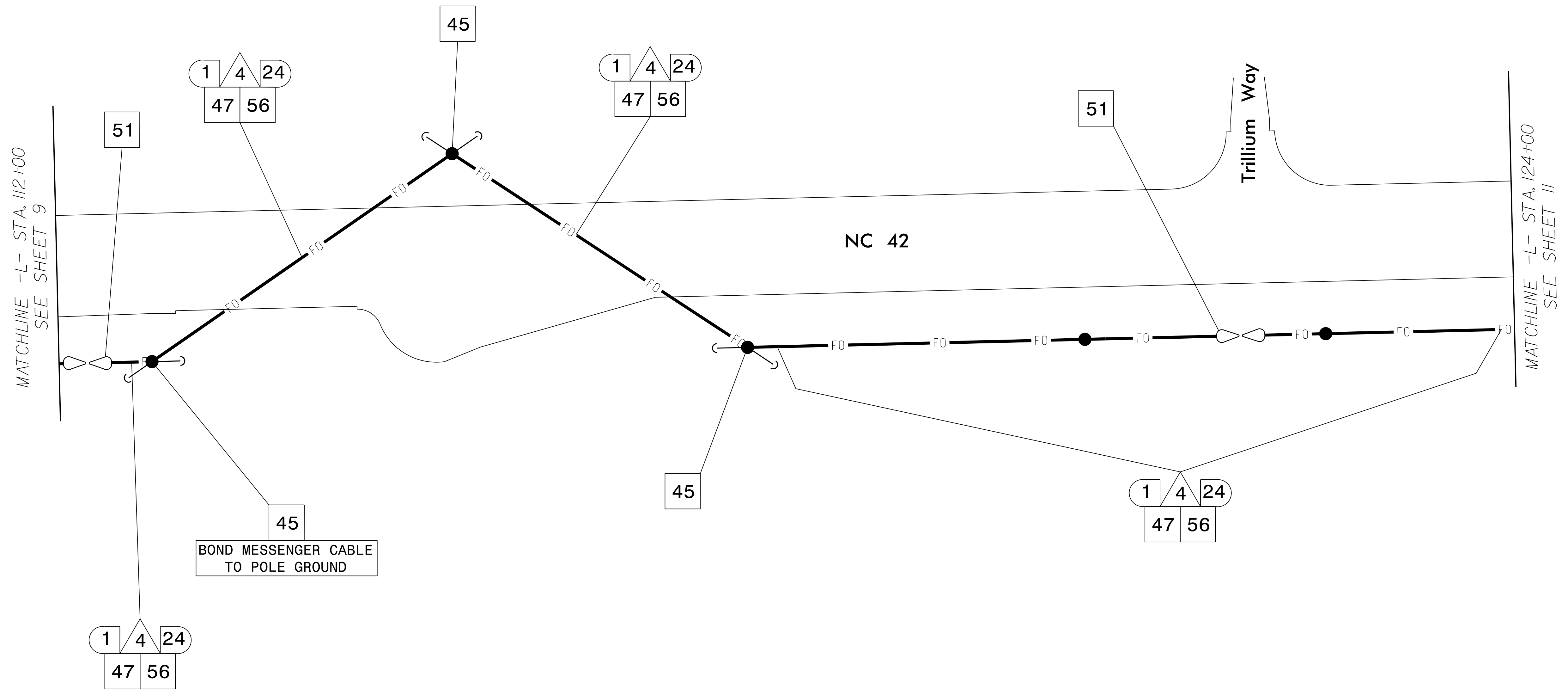


Communications Cable and Conduit Routing Plans	
Division 4 Johnston County Clayton	
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE

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SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 37856
 STEVEN W. COX
 Steven W. Cox
 5/25/2018
 2AF289734140C...
 CADD Filename:



NOTES:

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 Morrisville, North Carolina 27560
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 NC LICENSE # C-2243

Prepared for the Offices of:

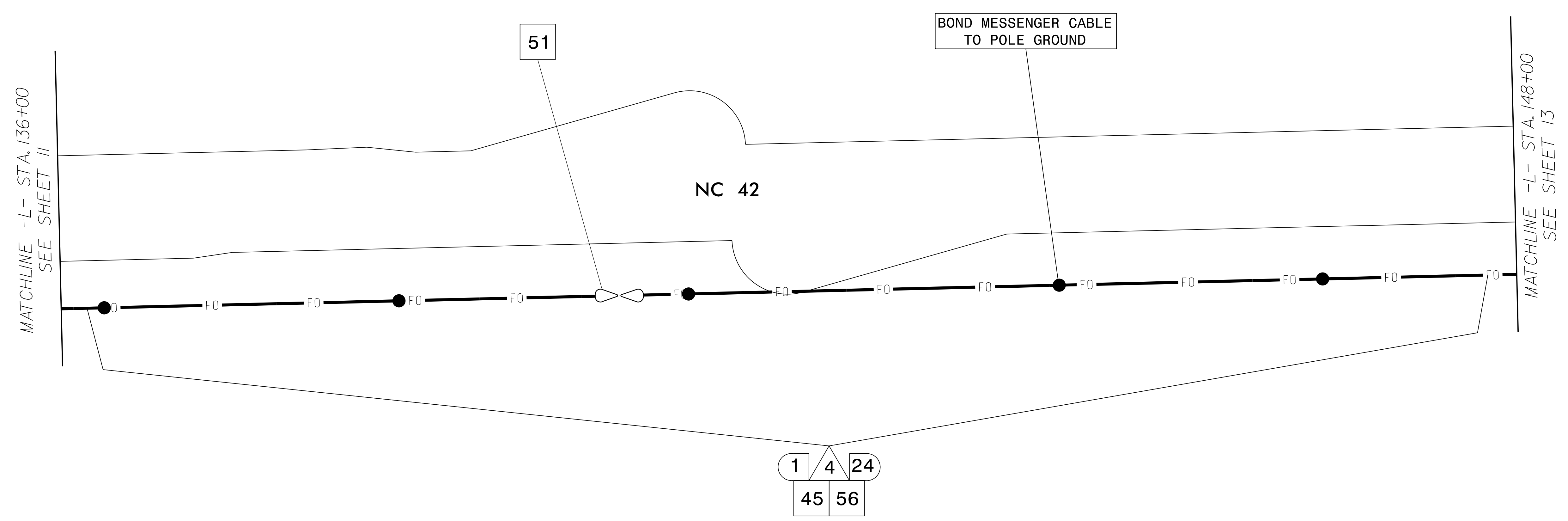
 750 N. Greenfield Pkwy., Garner, NC 27529
 SCALE
 0 50
 1"=50'

Communications Cable and Conduit Routing Plans	
Division 4 Johnston County Clayton	
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE

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STEVEN W. COX
 5/25/2018
 2AF289734140C...
 CADD Filename:

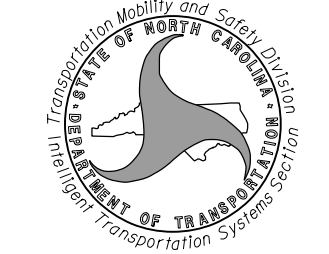



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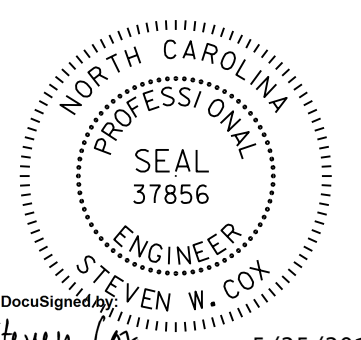
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 Morrisville, North Carolina 27560
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 NC LICENSE # C-2243

Prepared for the Offices of:

 750 N. Greenfield Pkwy., Garner, NC 27529
 SCALE 0 50
 1"=50'

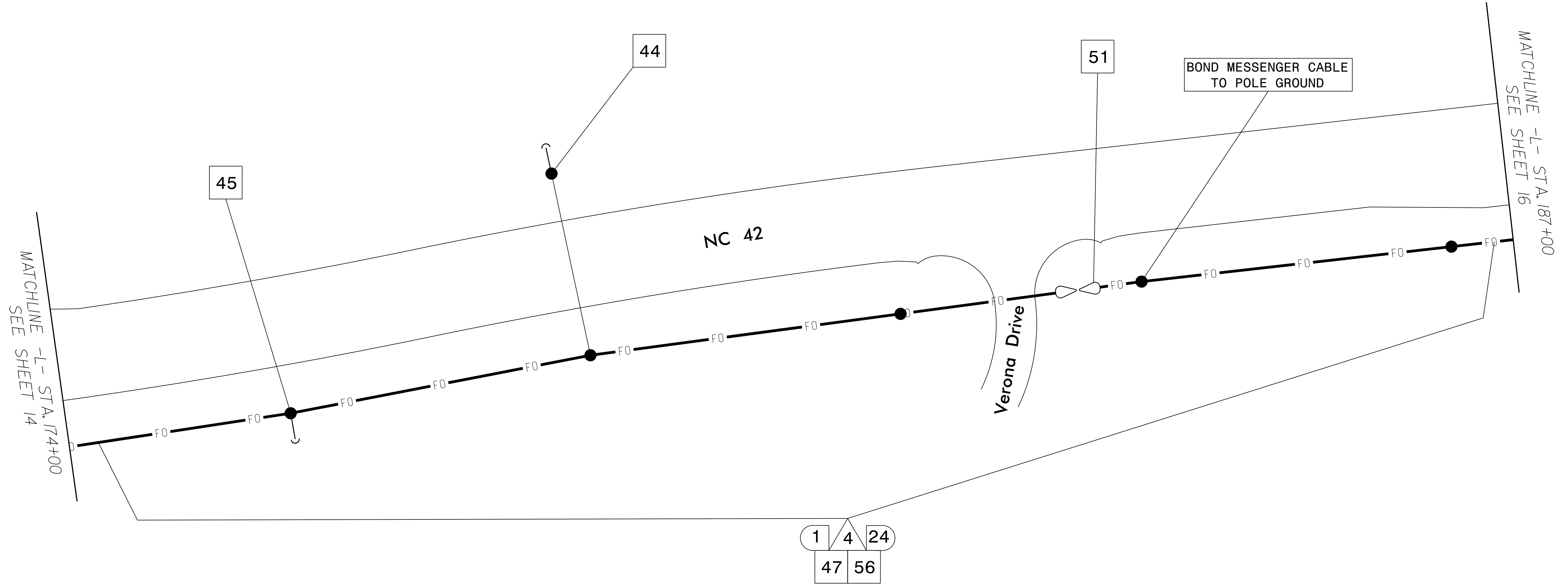
Communications Cable and Conduit Routing Plans	
Division 4 Johnston County Clayton	
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE

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STEVEN W. COX
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 CADD Filename:

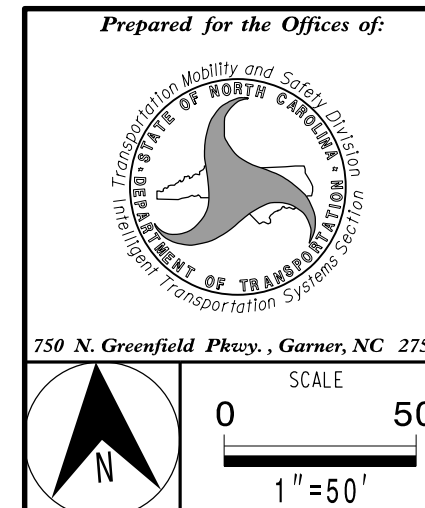


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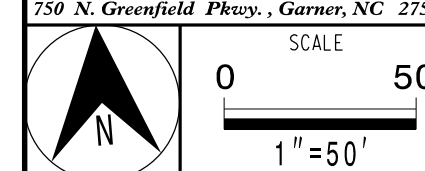
Communications Cable and Conduit Routing Plans	
Division 4	Johnston County
Clayton	
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE

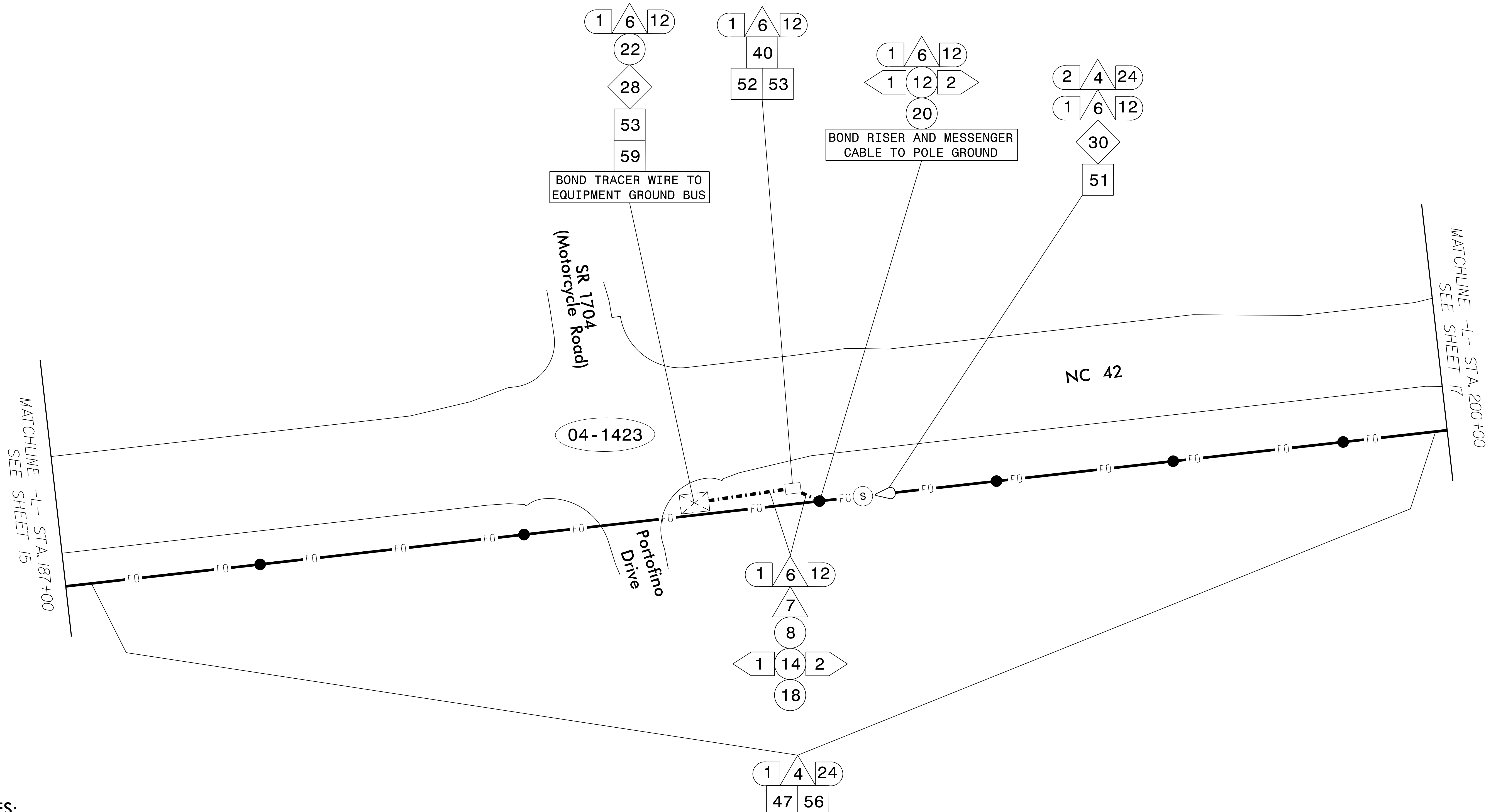
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NORTH CAROLINA
PROFESSIONAL
ENGINEER
STEVEN W. COX
37856

DocuSign
Steven Cox
5/25/2018
2AF289734140C...
CADD Filename:



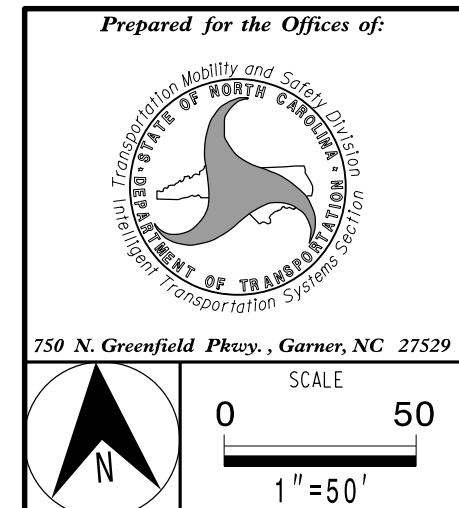


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5/25/2018
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 1600 Perimeter Park Drive
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 NC LICENSE: C-2243

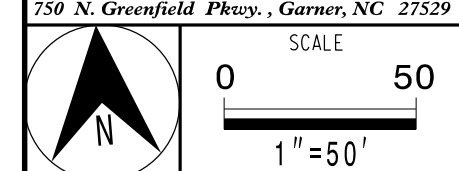


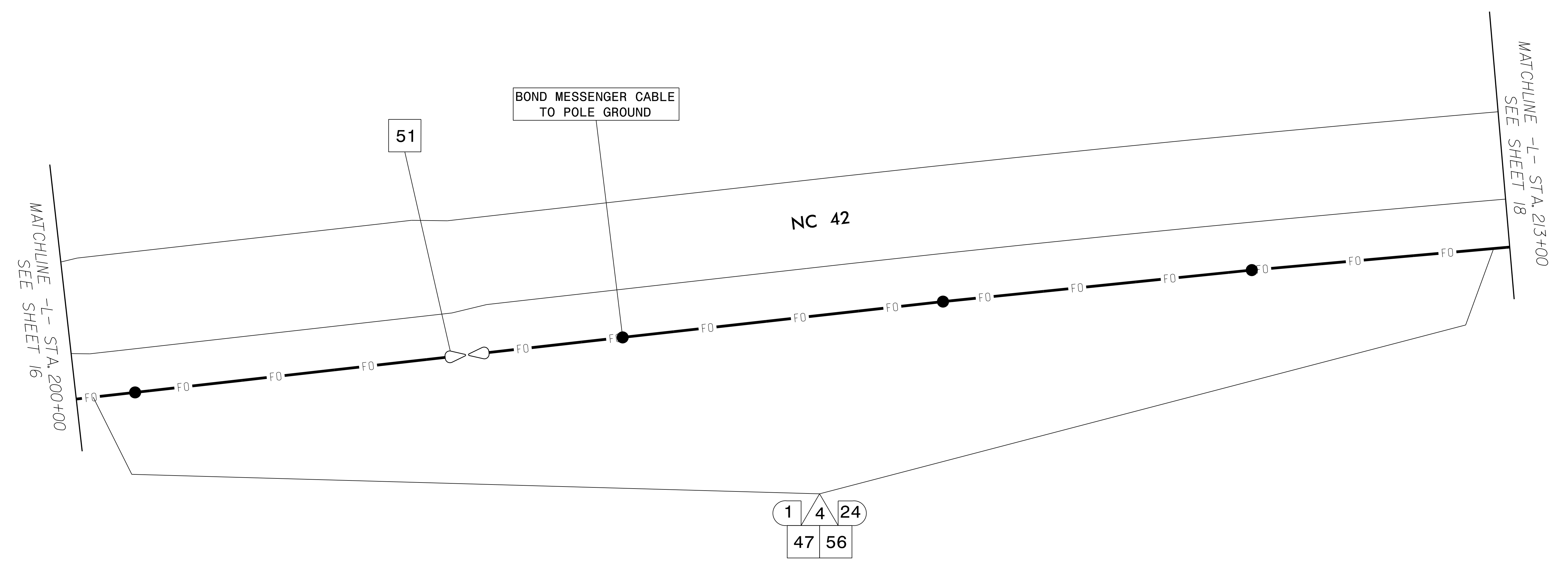
Communications Cable and Conduit Routing Plans	
Division 4 Johnston County Clayton	
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE

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NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 37856
 STEVEN W. COX
 5/25/2018
 CADD Filename:





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5/25/2018
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 Morrisville, North Carolina 27560
 TELEPHONE (919) 461-1100 FAX (919) 461-1415
 NC LICENSE # C-2243

Prepared for the Offices of:

 750 N. Greenfield Pkwy., Garner, NC 27529

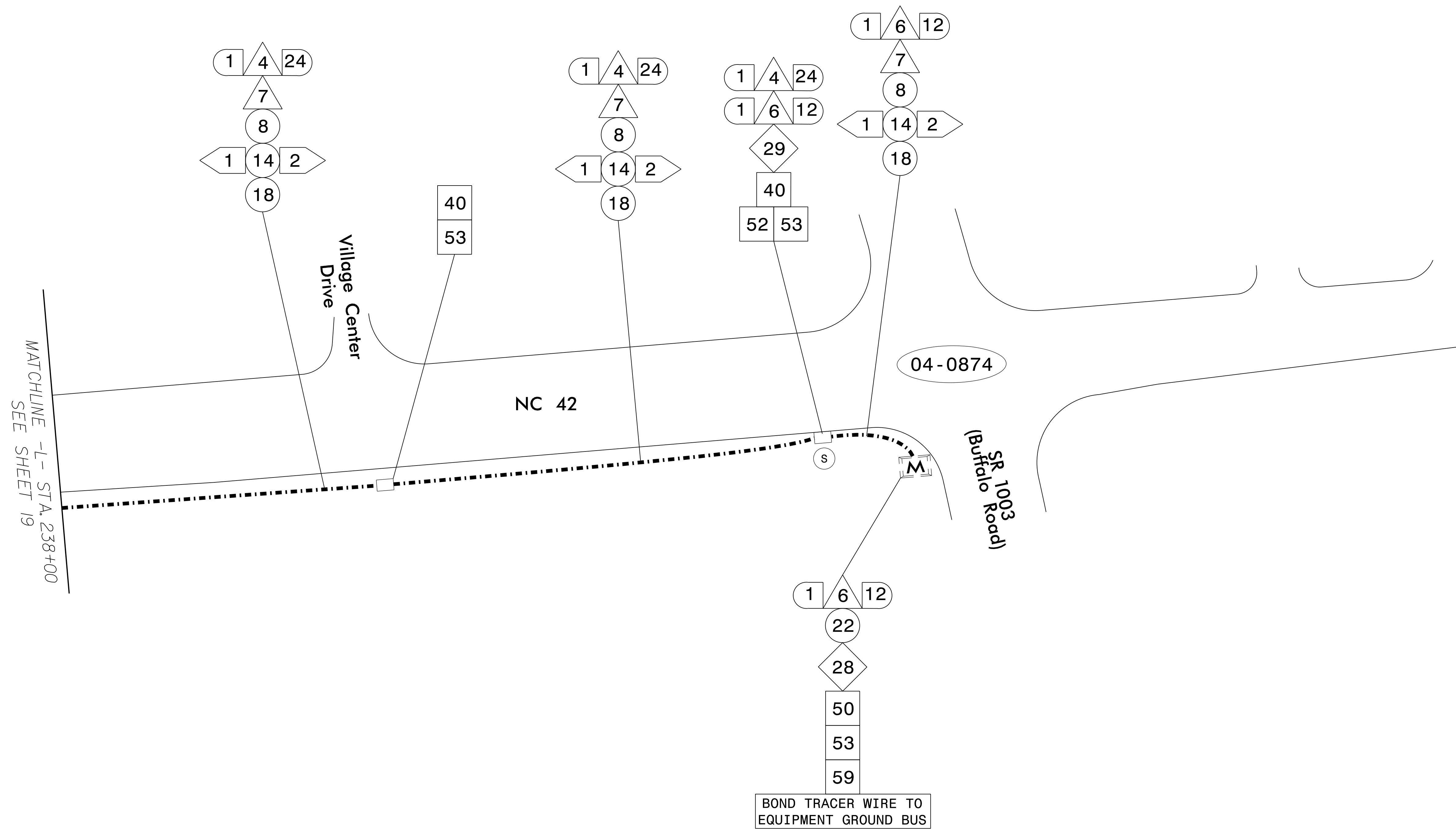
Communications Cable and Conduit Routing Plans

Division 4	Johnston County	Clayton
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik	
PREPARED BY: S. W. Cox	REVIEWED BY:	
REVISIONS	INIT.	DATE

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SEAL 37856
 STEVEN W. COX
 5/25/2018
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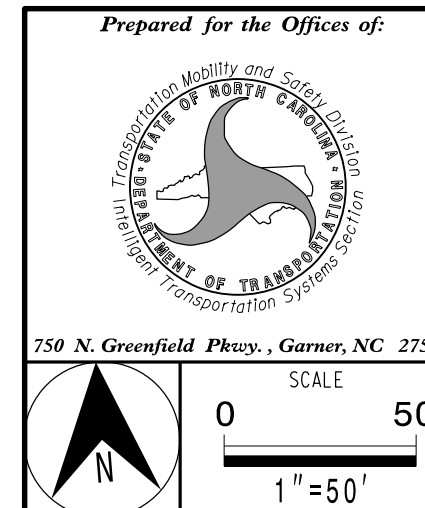


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 URS Corporation - North Carolina
 1600 Perimeter Park Drive
 Morrisville, North Carolina 27560
 TELEPHONE (919) 461-1100 FAX (919) 461-1415
 NC LICENSE # C-2243



Prepared for the Offices of: 	
Communications Cable and Conduit Routing Plans	
Division 4 Johnston County Clayton	PLAN DATE: January 2018 REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE
_____	_____
_____	_____

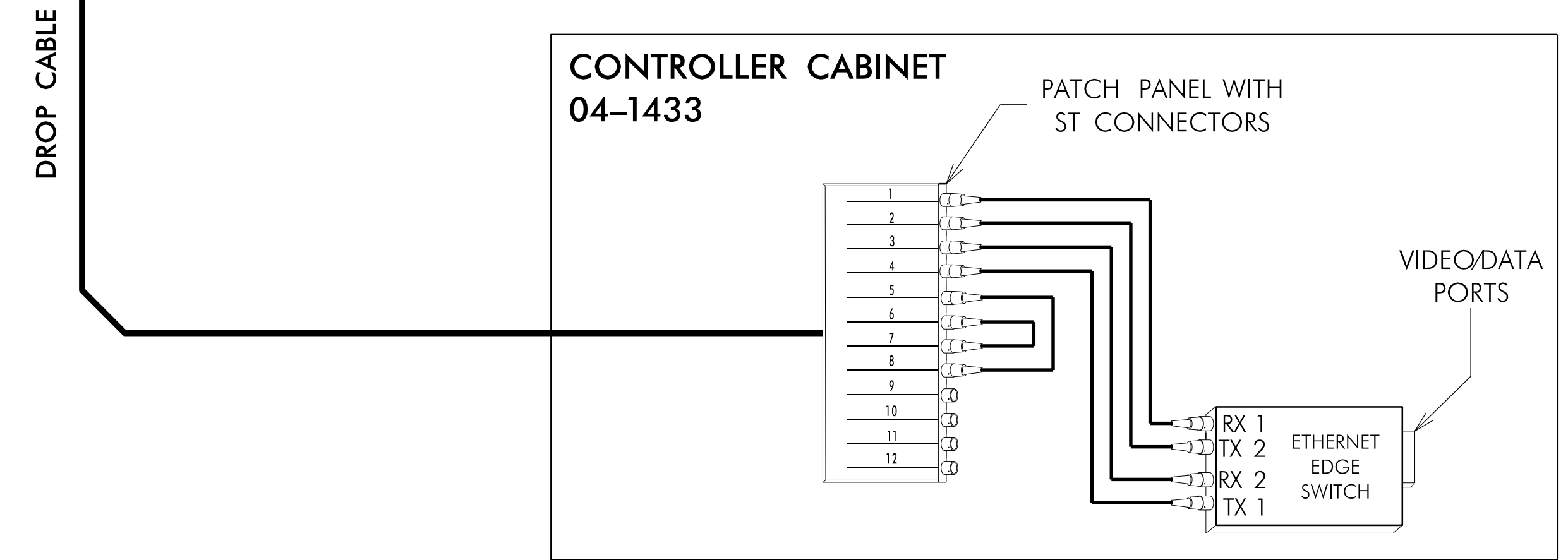
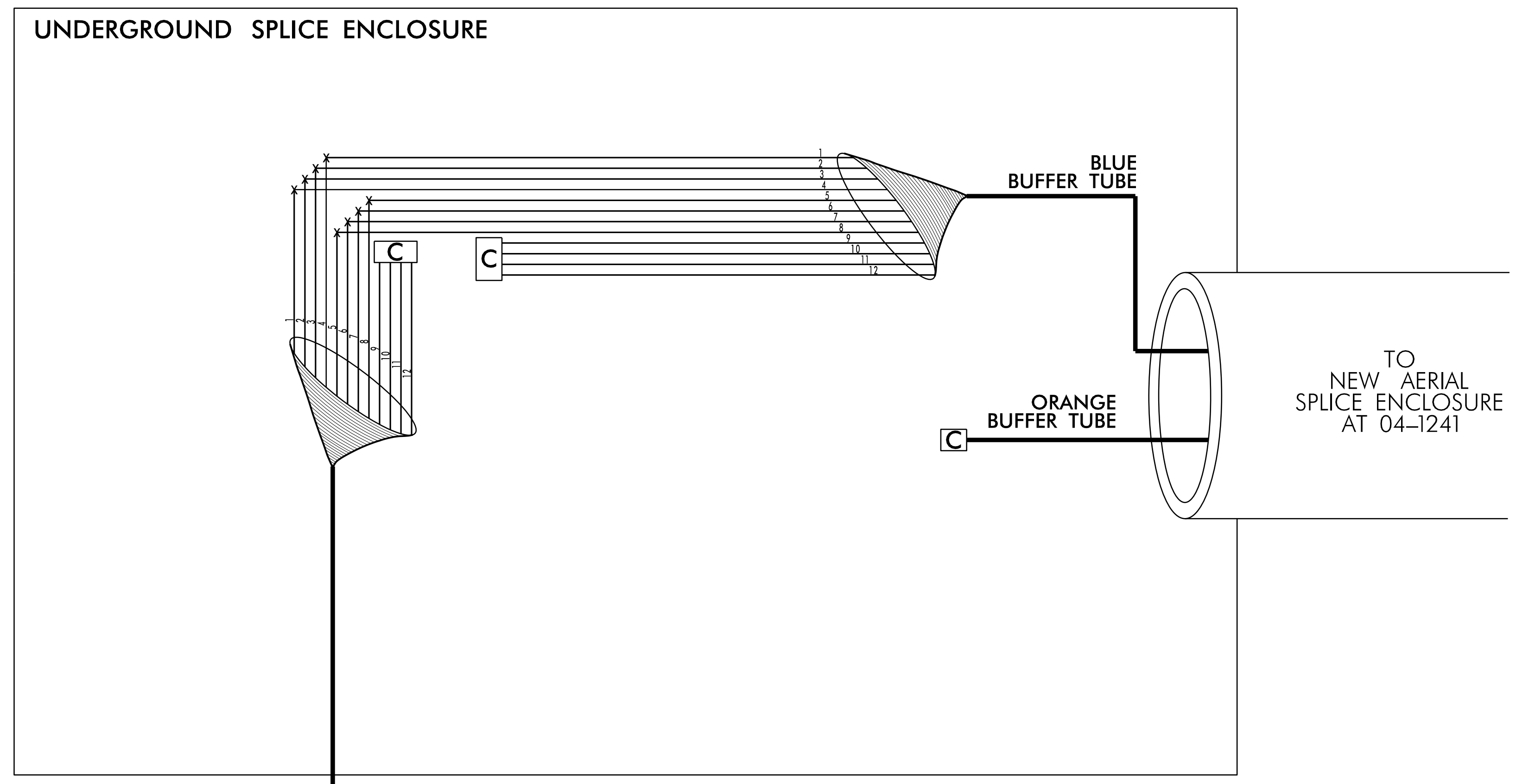
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SEAL
 NORTH CAROLINA
 PROFESSIONAL ENGINEER
 STEVEN W. COX
 License No. 37856
 5/25/2018
 CADD Filename:

CONTROLLER CABINET
 AT NC 42 AND SAM HUNT PROPERTY
 SIG. INV. # 04-1433

COLOR CODE		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	C = CAP, COIL, AND SEAL	
(3) GREEN	(9) YELLOW		
(4) BROWN	(10) VIOLET		
(5) SLATE	(11) ROSE		
(6) WHITE	(12) AQUA		

Notes:
 Unused fibers left coiled and stored in splice tray.
 Unused Buffer Tubes left coiled and stored in splice tray.



INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:
 REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

- 1) SPLICE LOCATION
- 2) DATE
- 3) COMPANY NAME
- 4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

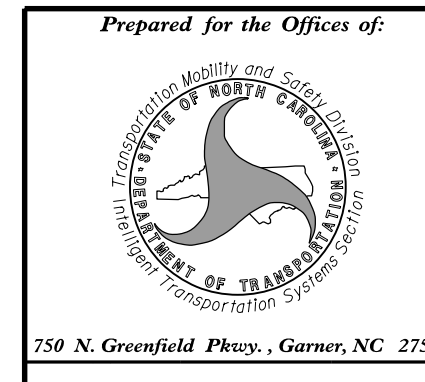
PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

NOTES:

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2. TRANSCEIVER TERMINATION CONFIGURATIONS ARE GENERIC. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING /ENSURING PROPER TERMINATIONS AND SHALL PERFORM ALL SPLICING AND TERMINATIONS IN CONTROLLER CABINET.

5/25/2018
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Prepared by
URS
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 Morrisville, North Carolina 27560
 TELEPHONE (919) 461-1100 FAX (919) 461-1415
 NC LICENSE # C-2243



Splice Details	
Division 4 Johnston County Clayton	
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE

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STEVEN W. COX
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 LICENSE NO. 37856

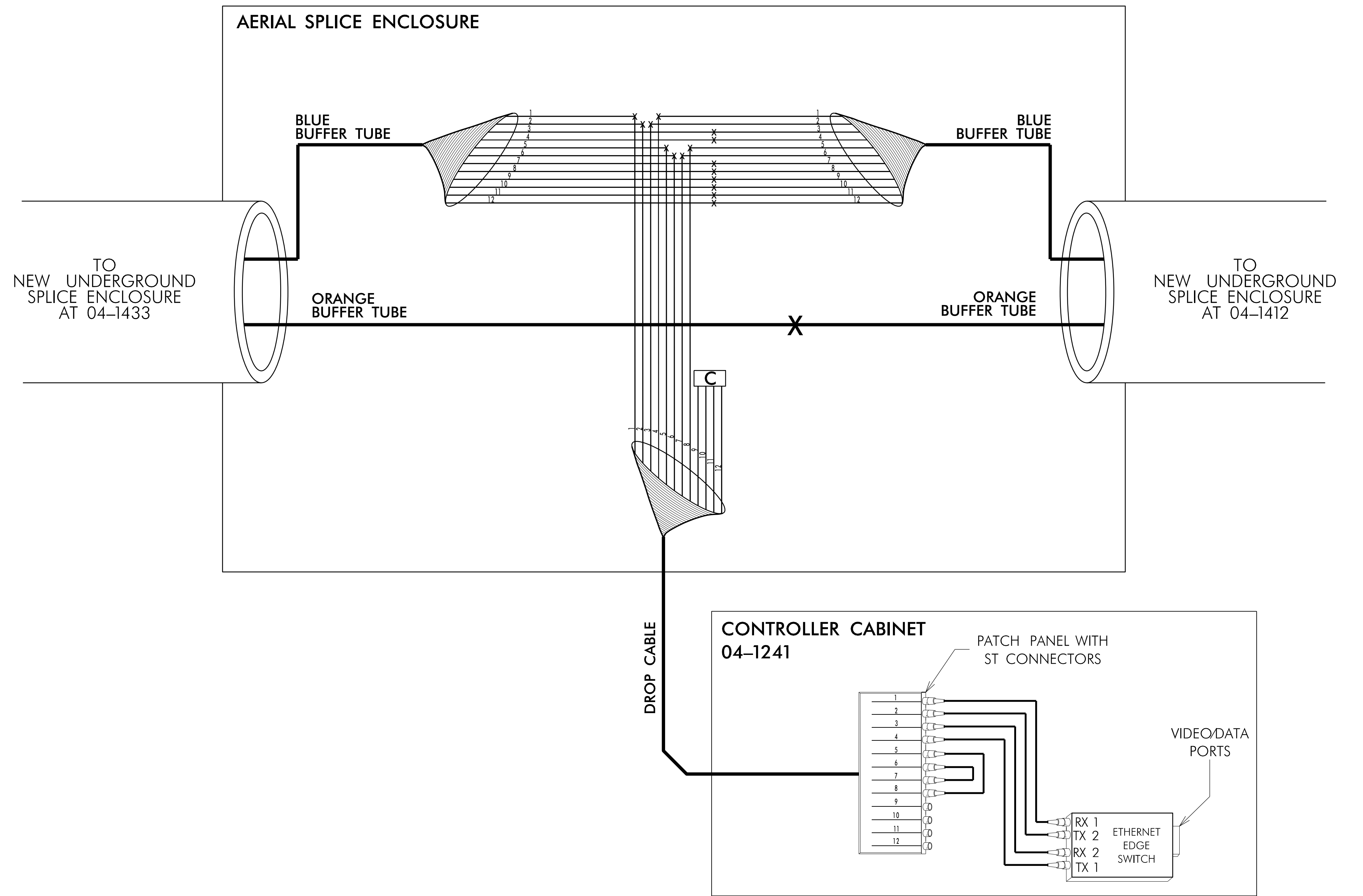
5/25/2018

CADD Filename:

AERIAL SPLICE ENCLOSURE
 AT NC 42 AND
 SR 1705 (CASTLEBERRY RD)
 SIG. INV. # 04-1241

COLOR CODE		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	C = CAP, COIL, AND SEAL	
(3) GREEN	(9) YELLOW		
(4) BROWN	(10) VIOLET		
(5) SLATE	(11) ROSE		
(6) WHITE	(12) AQUA		

Notes:
 Unused fibers left coiled and stored in splice tray.
 Unused Buffer Tubes left coiled and stored in splice tray.



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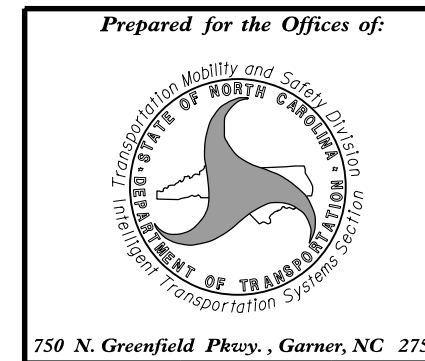
INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:
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- 1) SPLICE LOCATION
- 2) DATE
- 3) COMPANY NAME
- 4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

5/25/2018
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 COAS1

Prepared by
URS
 URS Corporation - North Carolina
 1600 Perimeter Park Drive
 Morrisville, North Carolina 27560
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 NC LICENSE # C-2243



Splice Details	
Division 4 Johnston County Clayton	
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE

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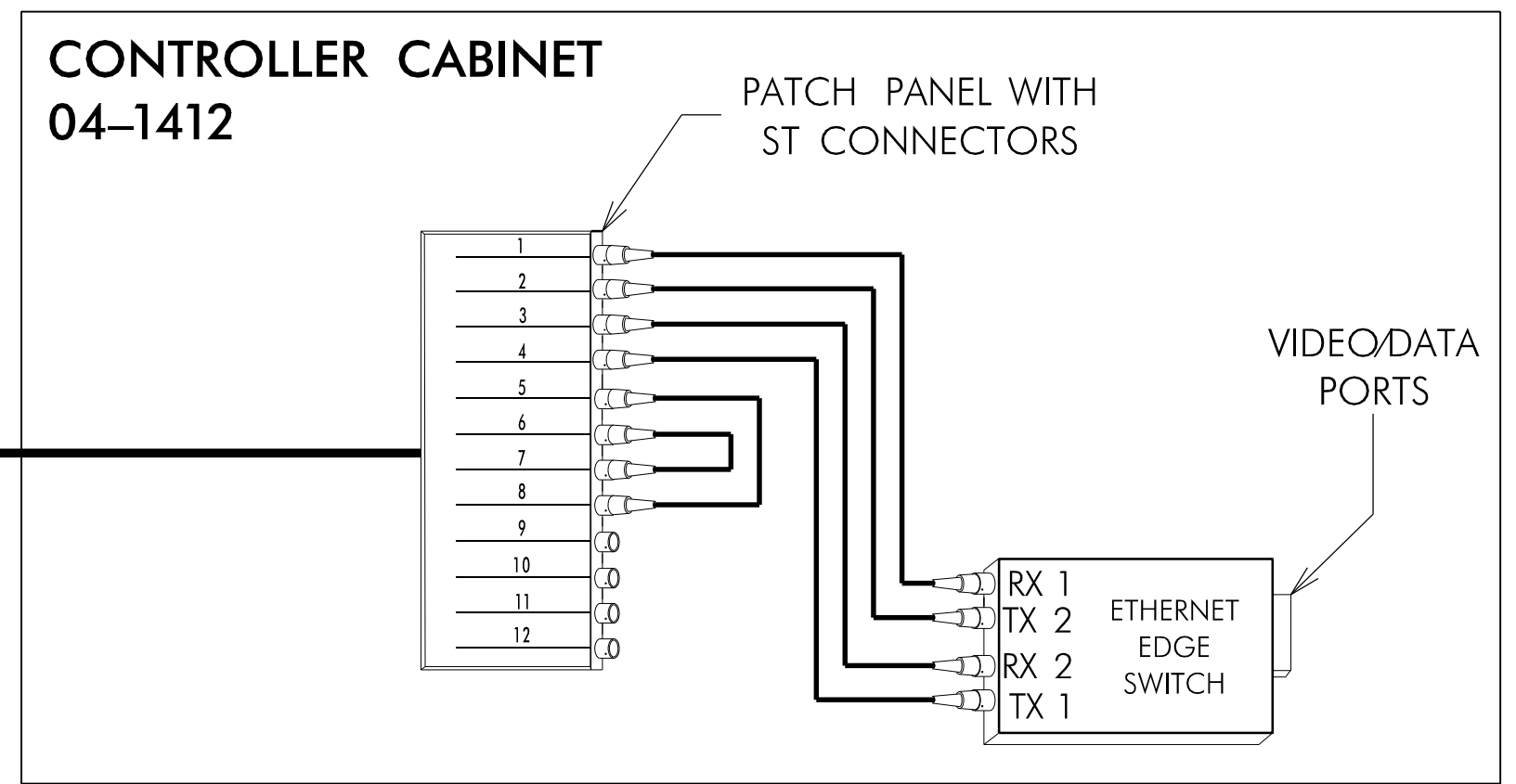
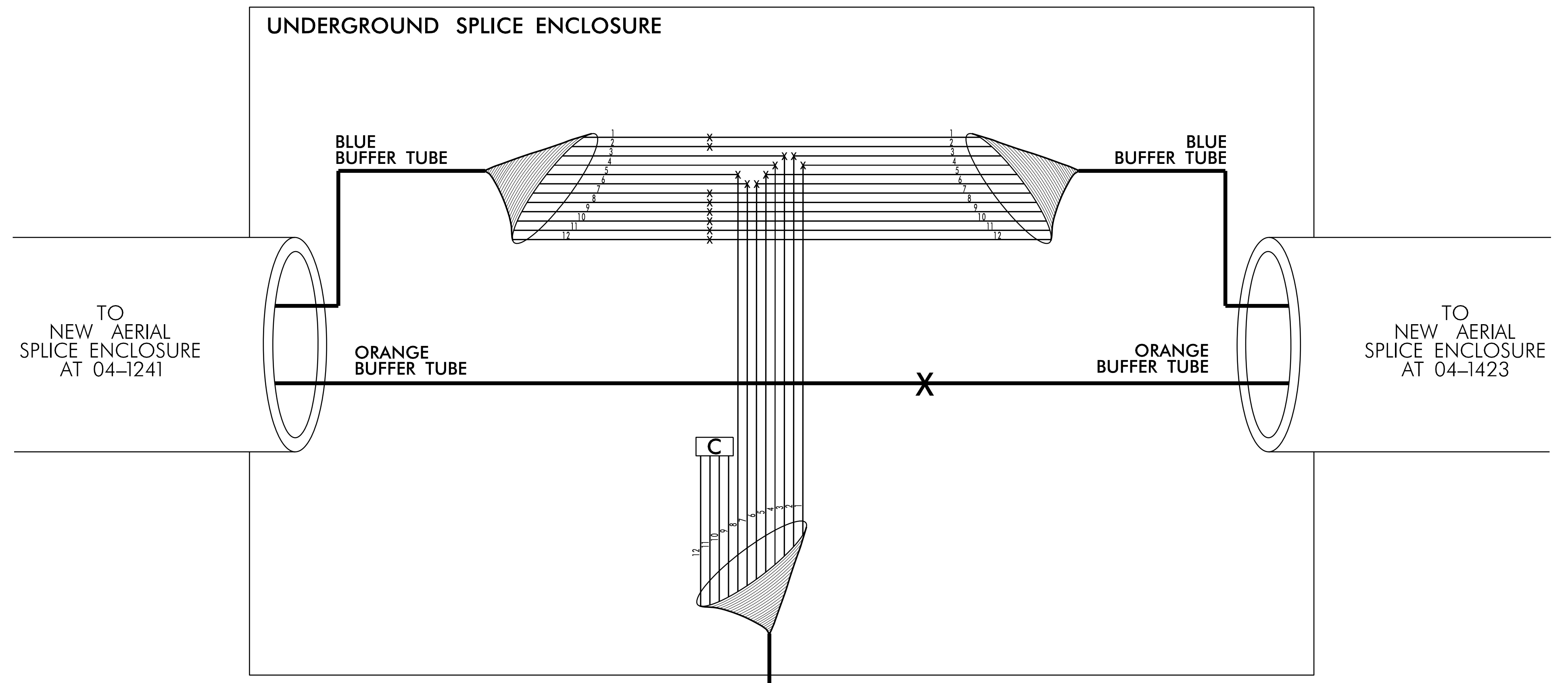
SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 37856
 STEVEN W. COX
 5/25/2018
 CADD Filename:

UNDERGROUND SPLICE ENCLOSURE
 AT NC 42 AND
 SR 1704 (NEUSE RIVER PKWY)/
 QUEEN ANN DR
 SIG. INV. # 04-1412

COLOR CODE		LEGEND	
TIA/EIA	598-A	X	= NEW FUSION SPLICE INDIVIDUAL FIBER
(1) BLUE	(7) RED	C <th>= CAP, COIL, AND SEAL</th>	= CAP, COIL, AND SEAL
(2) ORANGE	(8) BLACK		
(3) GREEN	(9) YELLOW		
(4) BROWN	(10) VIOLET		
(5) SLATE	(11) ROSE		
(6) WHITE	(12) AQUA		

Notes:
 Unused fibers left coiled and stored in splice tray.
 Unused Buffer Tubes left coiled and stored in splice tray.



INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:
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- 1) SPLICE LOCATION
- 2) DATE
- 3) COMPANY NAME
- 4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

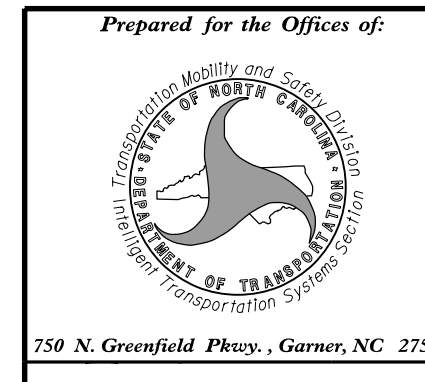
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5/25/2018
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Prepared by
URS
 URS Corporation - North Carolina
 1600 Perimeter Park Drive
 Morrisville, North Carolina 27560
 TELEPHONE (919) 461-1100 FAX (919) 461-1415
 NC LICENSE # C-2243



Splice Details	
Division 4 Johnston County Clayton	
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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STEVEN W. COX
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 LICENSE NO. 37856

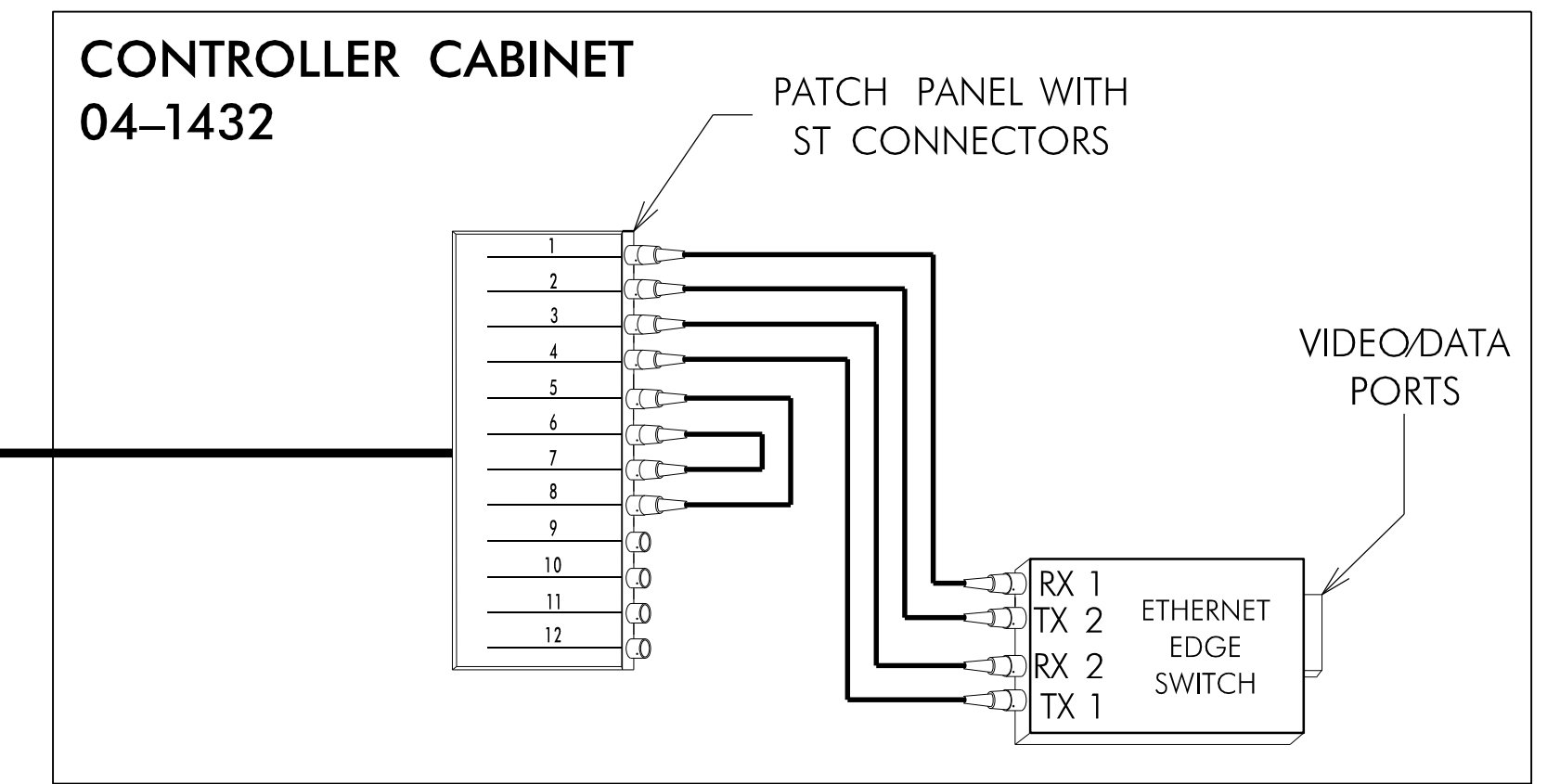
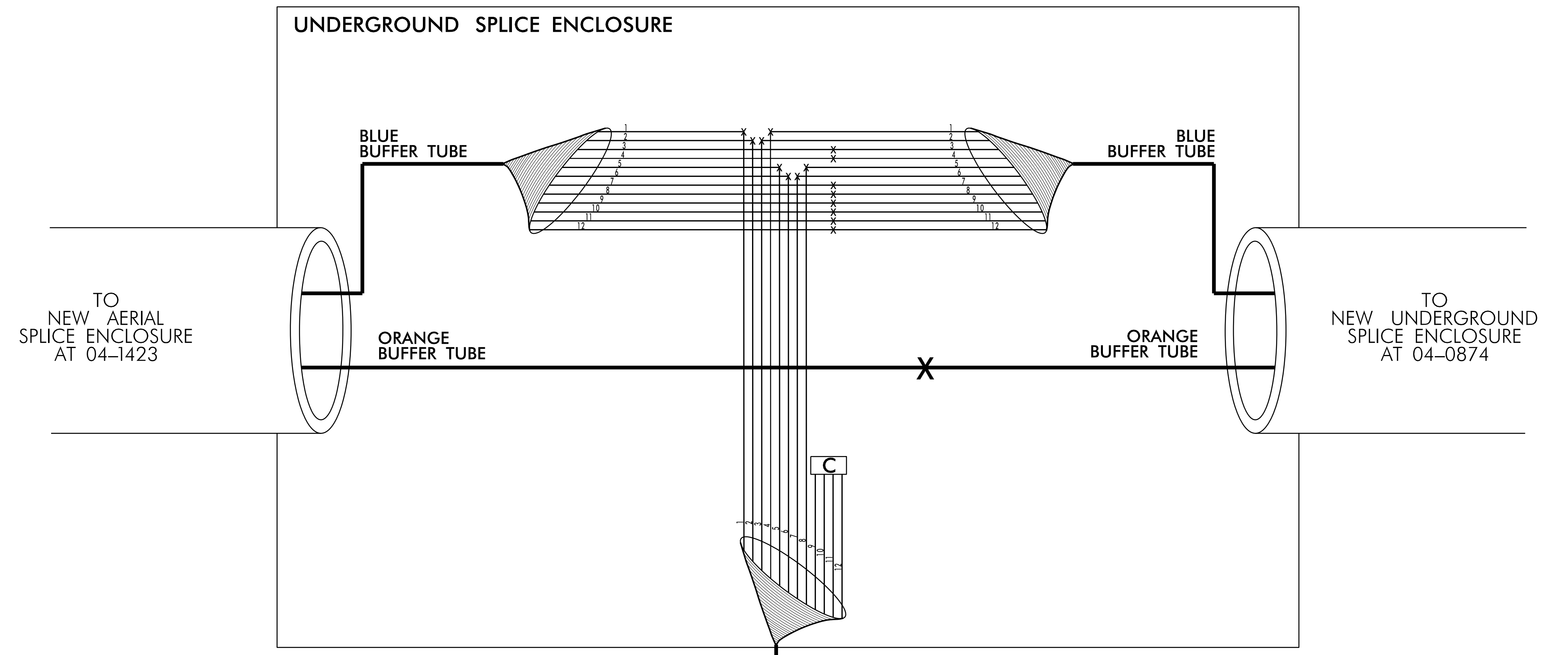
DocuSign
 Steven W. Cox
 5/25/2018
 2AF289734140C
 CADD Filename:

**UNDERGROUND SPLICE ENCLOSURE
AT NC 42 AND FLOWERS PKWY**

SIG. INV. # 04-1432

COLOR CODE TIA/EIA 598-A		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	C = CAP, COIL, AND SEAL	
(3) GREEN	(9) YELLOW		
(4) BROWN	(10) VIOLET		
(5) SLATE	(11) ROSE		
(6) WHITE	(12) AQUA		

Notes:
Unused fibers left coiled and stored in splice tray.
Unused Buffer Tubes left coiled and stored in splice tray.



INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:
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- 1) SPLICE LOCATION
- 2) DATE
- 3) COMPANY NAME
- 4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

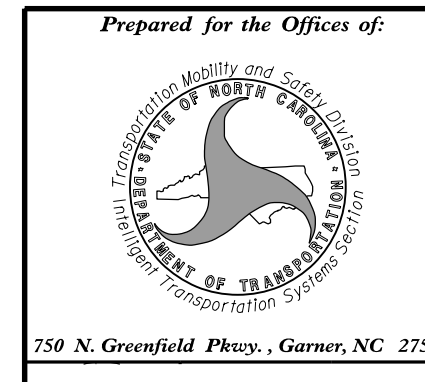
PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

NOTES:

1. NOTIFY THE NCDOT DIVISION 4 TRAFFIC ENGINEER, ANDY BROWN, AT (252) 640-6505 EXT 3544, FIVE (5) DAYS PRIOR TO BEGINNING WORK ON SIGNAL SYSTEM COMMUNICATIONS CABLE. NOTIFY THE DIVISION 4 TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED. ALL WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS OPERATIONAL.
2. TRANSCEIVER TERMINATION CONFIGURATIONS ARE GENERIC. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING /ENSURING PROPER TERMINATIONS AND SHALL PERFORM ALL SPLICING AND TERMINATIONS IN CONTROLLER CABINET.

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Prepared by
URS
URS Corporation - North Carolina
1600 Perimeter Park Drive
Morrisville, North Carolina 27560
TELEPHONE (919) 461-1100 FAX (919) 461-1415
NC LICENSE # C-2243



Division 4 Johnston County Clayton	
PLAN DATE: January 2018	REVIEWED BY: C. L. Kalencik
PREPARED BY: S. W. Cox	REVIEWED BY:
REVISIONS	INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

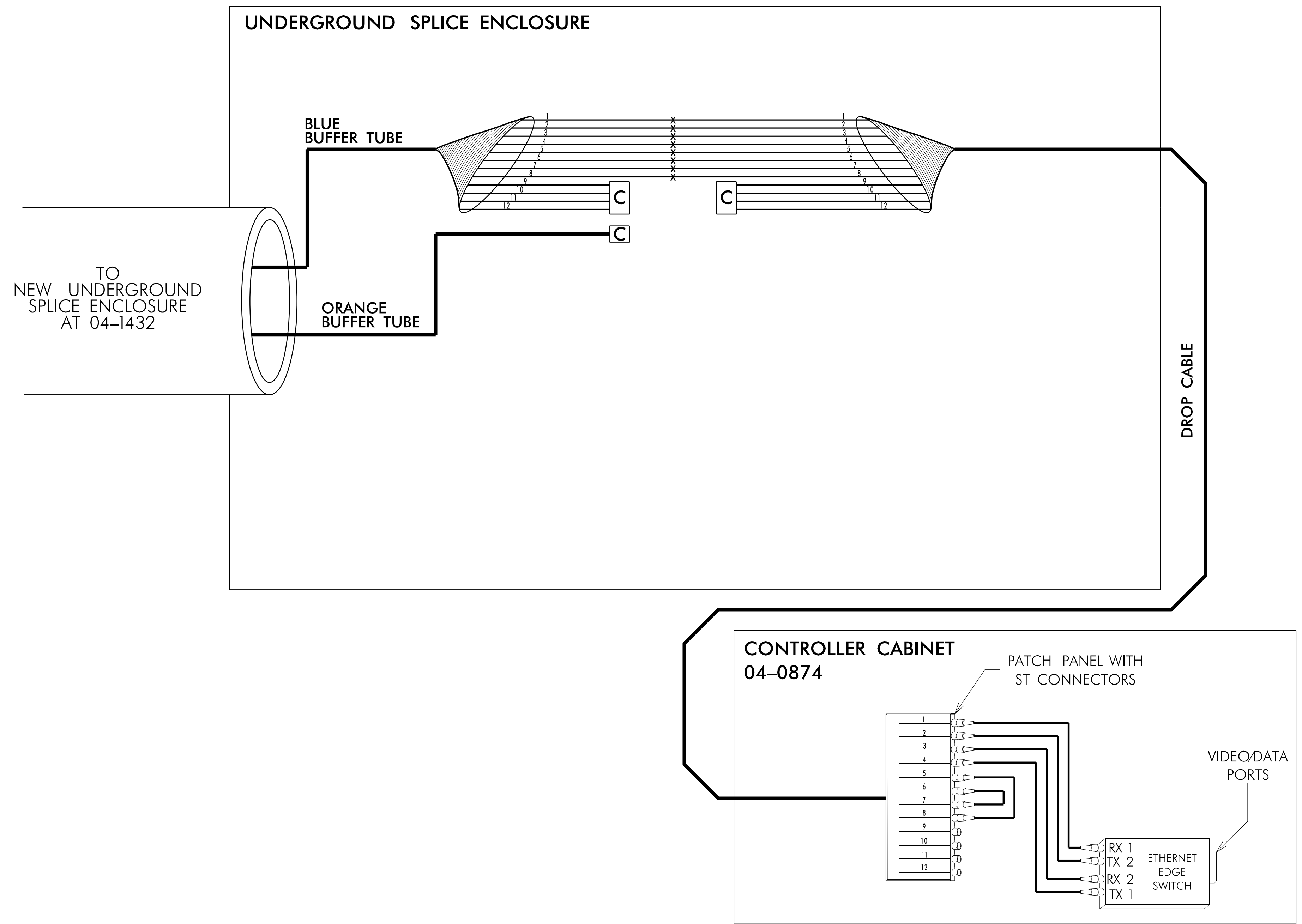
NORTH CAROLINA
PROFESSIONAL
ENGINEER
STEVEN W. COX
37856

DocuSign
Steven W. Cox
5/25/2018
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CADD Filename:

SPLICE ENCLOSURE
 AT NC 42 AND SR 1003 (BUFFALO RD)
 SIG. INV. # 04-0874

COLOR CODE		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	C = CAP, COIL, AND SEAL	
(3) GREEN	(9) YELLOW		
(4) BROWN	(10) VIOLET		
(5) SLATE	(11) ROSE		
(6) WHITE	(12) AQUA		

Notes:
 Unused fibers left coiled and stored in splice tray.
 Unused Buffer Tubes left coiled and stored in splice tray.



NOTES:

1. NOTIFY THE NCDOT DIVISION 4 TRAFFIC ENGINEER, ANDY BROWN, AT (252) 640-6505 EXT 3544, FIVE (5) DAYS PRIOR TO BEGINNING WORK ON SIGNAL SYSTEM COMMUNICATIONS CABLE. NOTIFY THE DIVISION 4 TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED. ALL WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS OPERATIONAL.
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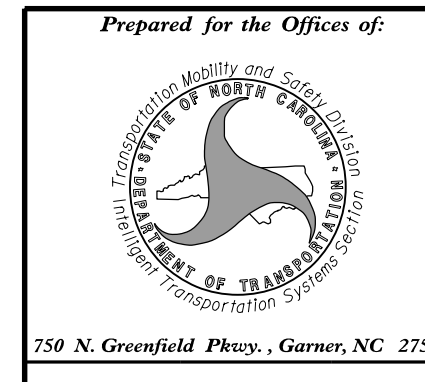
INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:
 REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

- 1) SPLICE LOCATION
- 2) DATE
- 3) COMPANY NAME
- 4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

5/25/2018
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Splice Details	
Division 4 Johnston County Clayton	
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SEAL

STEVEN W. COX
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 License No. 37856

5/25/2018

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