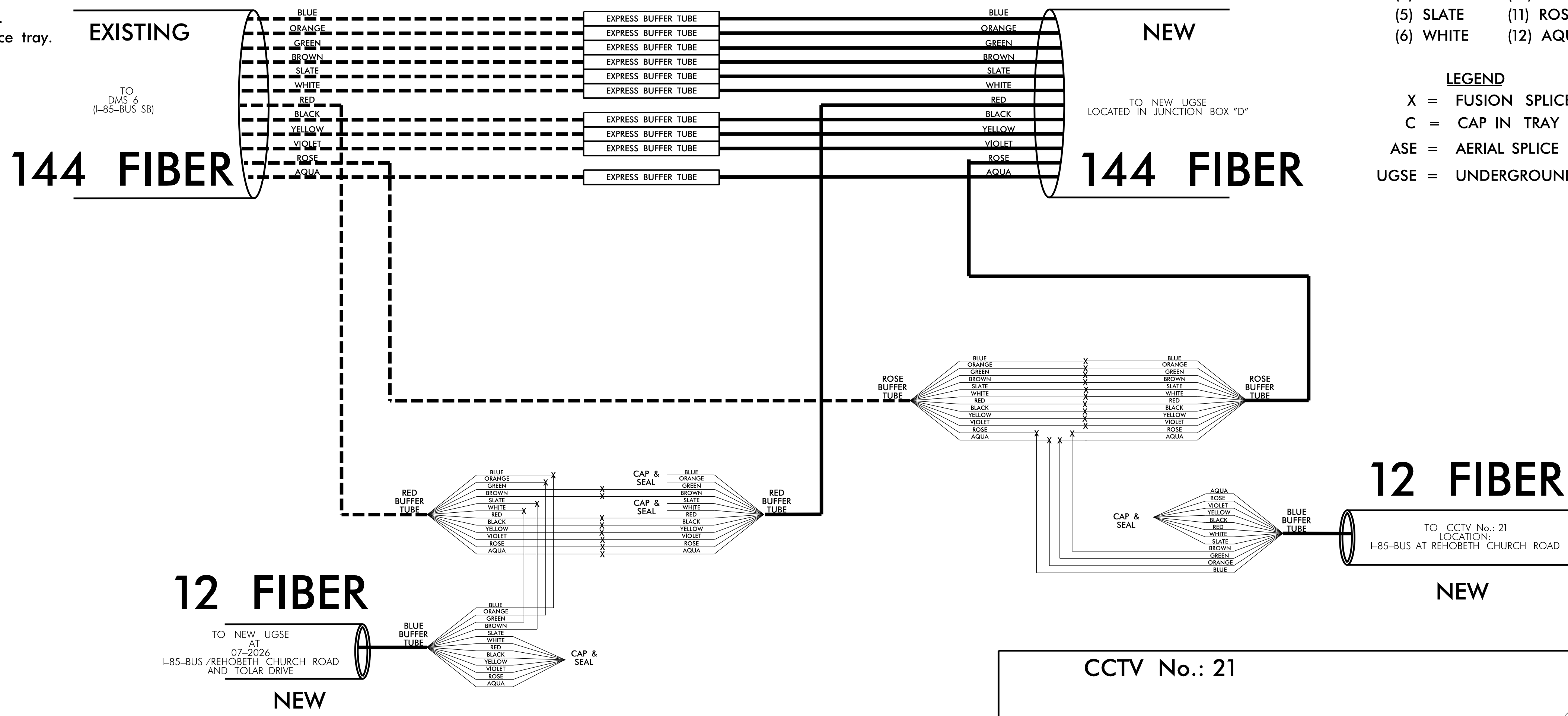


NEW UGSE AT JUNCTION BOX "A" AND CCTV No.: 21 (I-85-BUS /REHOBETH CHURCH ROAD)

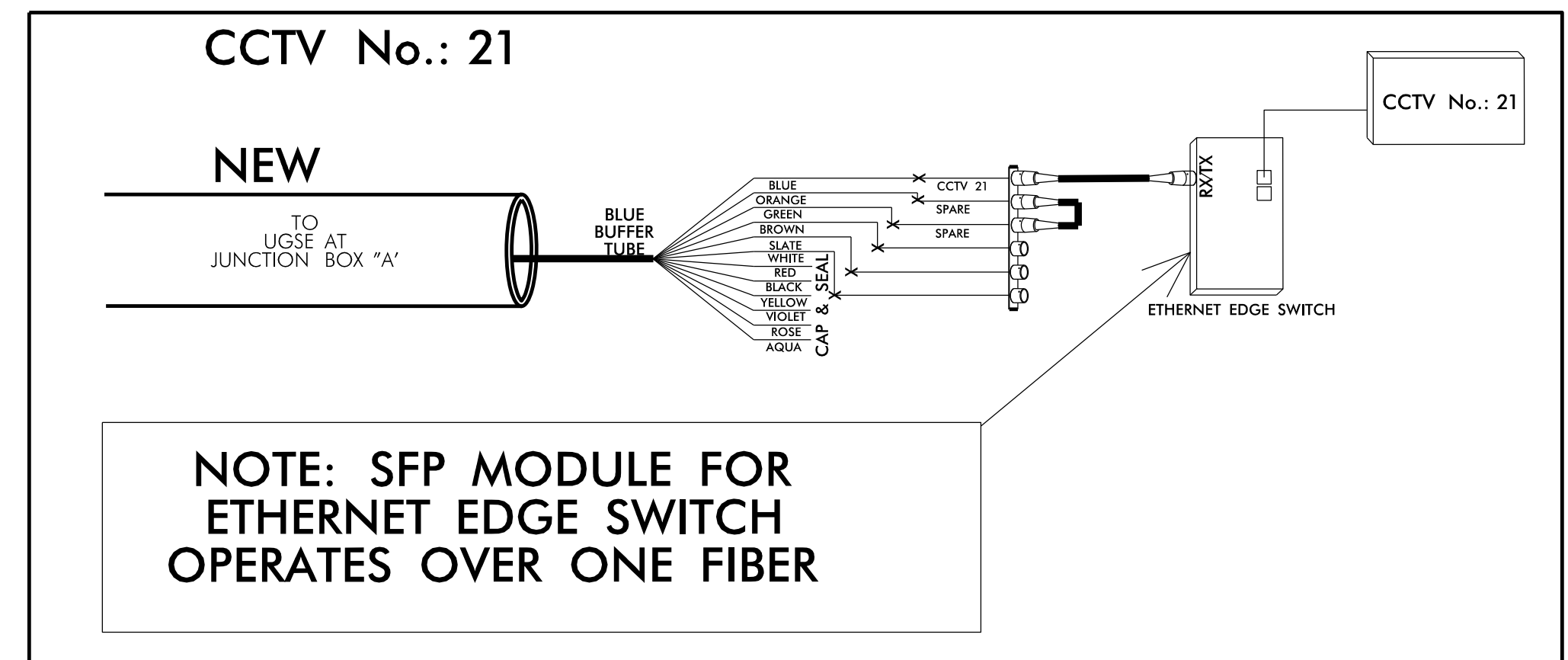
COLOR CODE TIA/EIA 598-A

- (1) BLUE (7) RED
- (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.



LEGEND
 X = FUSION SPLICE
 C = CAP IN TRAY
 ASE = AERIAL SPLICE ENCLOSURE
 UGSE = UNDERGROUND SPLICE ENCLOSURE



- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE FIBER OPTIC CABLE LOCATED ALONG THE I-85 CORRIDOR, CONTACT THE REGIONAL ITS ENGINEER, MIKE VENABLE, AT (336) 315-7080 (EXT 204) TO ARRANGE FOR THE REGIONAL ITS ENGINEER TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE REGIONAL ITS ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE DEVICES LOCATED ALONG THIS CORRIDOR ARE BACK UP AND OPERATIONAL
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- 3) CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENT FOR COMPARISON TO THE SUPPLIED SPLICE DETAILS. IF DISCREPANCIES EXIST, CONTACT THE ENGINEER TO DETERMINE HOW TO PROCEED WITH RESPLICING. PROVIDE AS-BUILT PLANS TO THE ENGINEER IF FINAL SPLICE ARRANGEMENT DIFFERS FROM THE SUPPLIED SPLICE DETAILS.
- 4) ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
- 5) 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.

SEE "ICT" FOR FIBER OPTIC CABLE WORK

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

 MOTT MACDONALD 7621 Purfoy Road Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com License No. P-0669	 RW THOMPSON PROFESSIONAL ENGINEER License No. 032711	SPLICE DETAIL	
		Division 07 Guilford Co., Greensboro PLAN DATE: January 2023 REVIEWED BY: RW Thompson PREPARED BY: IN Avery REVIEWED BY:	
		REVISIONS _____ _____	INIT. DATE _____ _____
		SIGNATURE	DATE

**NEW UGSE AT
JUNCTION BOX "D"
(I-85-BUS /REHOBETH CHURCH ROAD)**

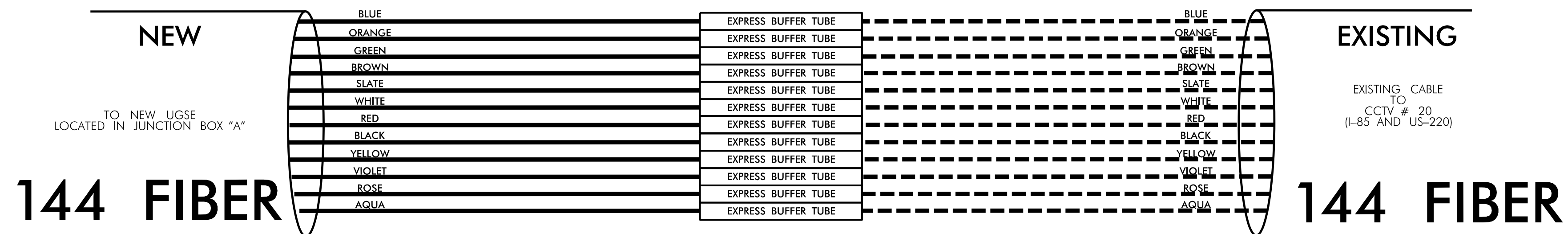
COLOR CODE
TIA/EIA 598-A

- | | |
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| (1) BLUE | (7) RED |
| (2) ORANGE | (8) BLACK |
| (3) GREEN | (9) YELLOW |
| (4) BROWN | (10) VIOLET |
| (5) SLATE | (11) ROSE |
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NOTES:

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

- LEGEND**
- X = FUSION SPLICE
C = CAP IN TRAY
ASE = AERIAL SPLICE ENCLOSURE
UGSE = UNDERGROUND SPLICE ENCLOSURE



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SEE "ICT" FOR FIBER OPTIC CABLE WORK

TMP Phase I

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 MOTT MACDONALD <small>7621 Purfoy Road Suite 115 Fayetteville, NC 27526 www.mottmac.com License No. P-0669</small>	<small>Prepared for the Offices of:</small> <small>250 N. Greenfield Place, Garner, NC 27529</small>	SPLICE DETAIL		 <small>SEAL RW THOMPSON ENGINEER 032711</small>
		Division 07 Guilford Co., Greensboro PLAN DATE: January 2023 REVIEWED BY: RW Thompson PREPARED BY: IN Avery REVIEWED BY:	REVISIONS INIT. DATE	

**NEW UGSE AT
07-2026
I-85-BUS /REHOBETH CHURCH ROAD
AND TOLAR DRIVE**

**COLOR CODE
TIA/EIA 598-A**

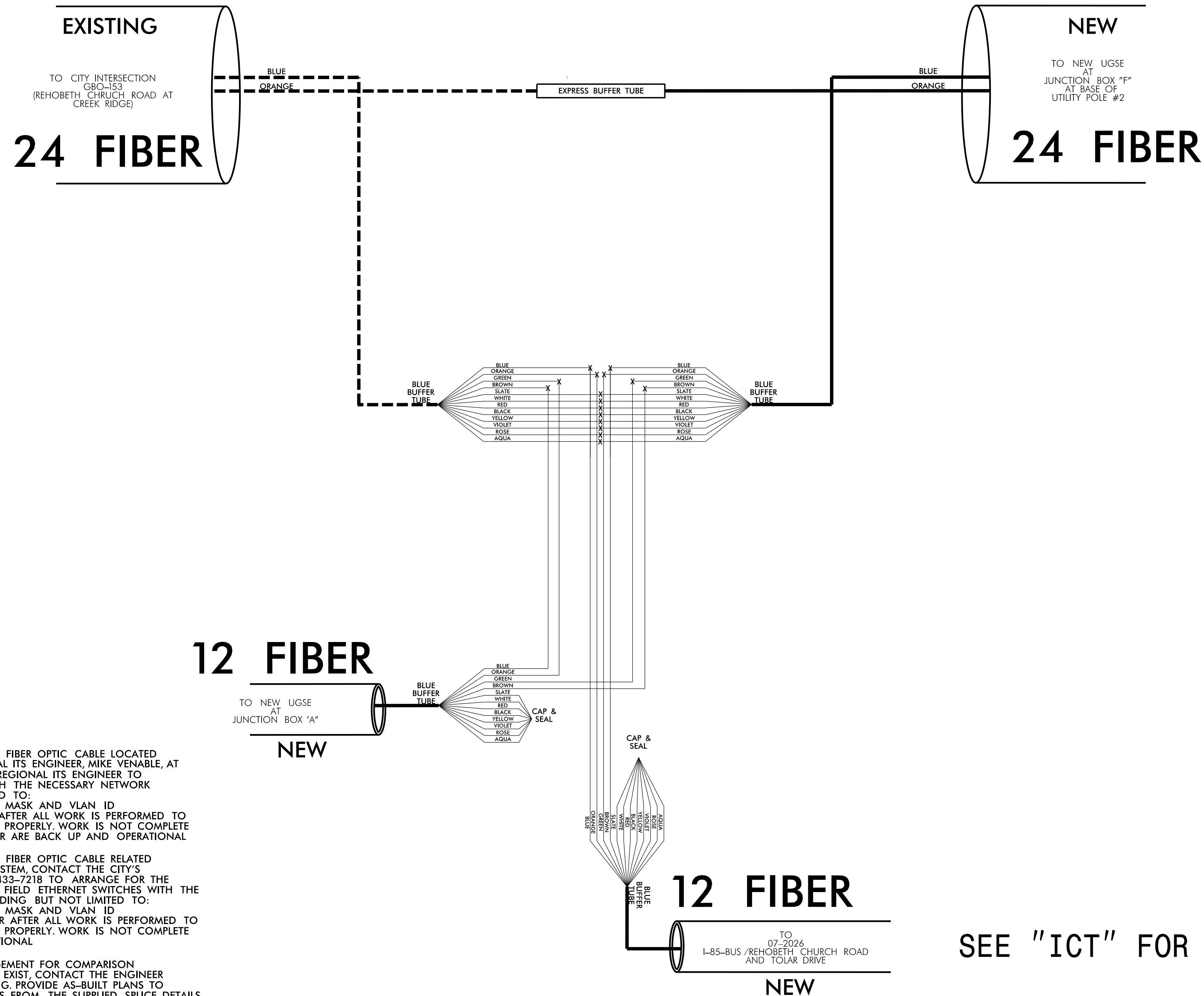
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NOTES:

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Unused Buffer Tubes left coiled and stored in splice tray.

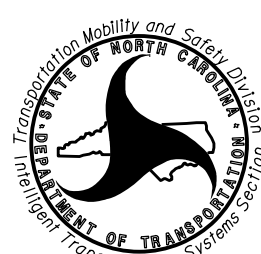



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SEE "ICT" FOR FIBER OPTIC CABLE WORK

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<p>M M MOTT MACDONALD 7621 Purfoy Road Suite 115 Fayetteville, NC 27526 www.mottmac.com License No. P-0663</p>	<p>Prepared for the Offices of:  250 N. Greenfield Pkwy., Garner, NC 27529</p>	<p>SPlice DETAIL</p>		<p>SEAL  R. W. THOMPSON ENGINEER</p>							
		<p>Division 07 Guilford Co. Greensboro</p>	<p>PLAN DATE: January 2023 REVIEWED BY: RW Thompson</p>		<p>PREPARED BY: IN Avery</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DESCRIPTION	INIT.	DATE	
NO.	DESCRIPTION	INIT.	DATE								
<p>TMP Phase I</p>		<p>SIGNATURE _____ DATE _____</p>		<p> </p>							

NEW UGSE IN JUNCTION BOX LOCATED AS BASE OF UTILITY POLE #2

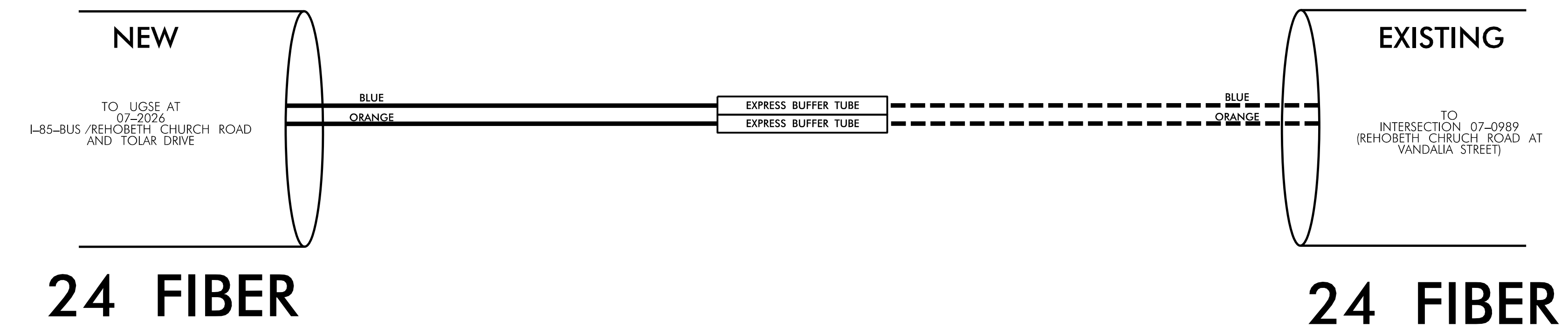
COLOR CODE
TIA/EIA 598-A

- | | |
|------------|-------------|
| (1) BLUE | (7) RED |
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NOTES:

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



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SEE "ICT" FOR FIBER OPTIC CABLE WORK

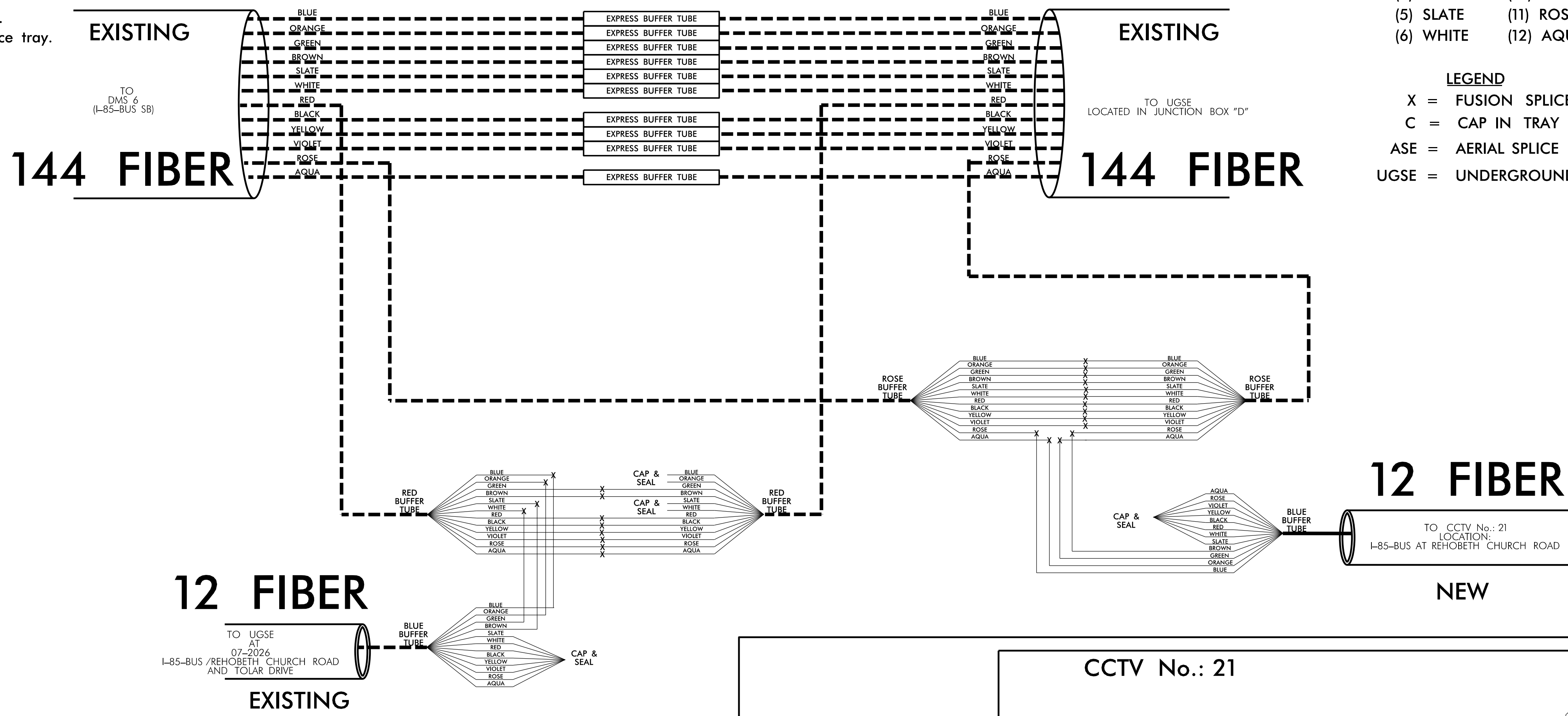
TMP Phase I		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED									
 MOTT MACDONALD <small>7621 Purfoy Road Suite 115 Fayetteville, NC 27526 www.mottmac.com License No. P-0669</small>	 <small>Prepared for the Offices of: 250 N. Greenfield Pkwy., Garner, NC 27529</small>	SPLICE DETAIL									
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REVISIONS	INIT.	DATE									
		SIGNATURE	DATE								

UGSE AT
JUNCTION BOX "A"
AND
CCTV No.: 21
(I-85-BUS /REHOBETH CHURCH ROAD)

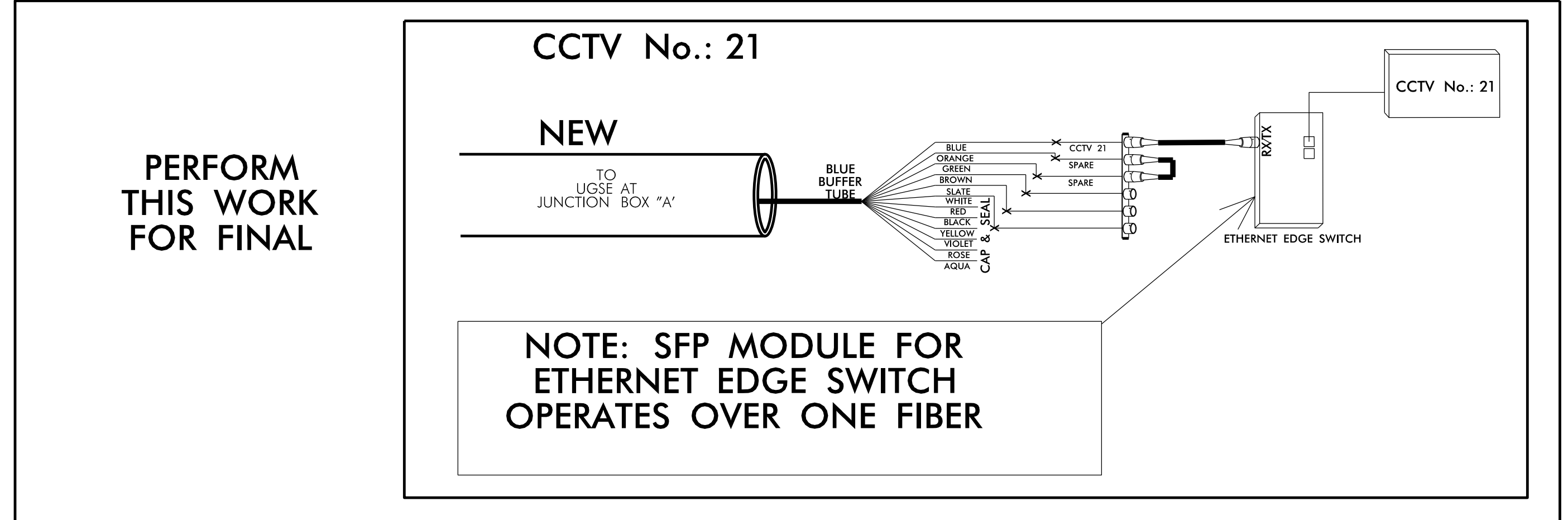
COLOR CODE
TIA/EIA 598-A

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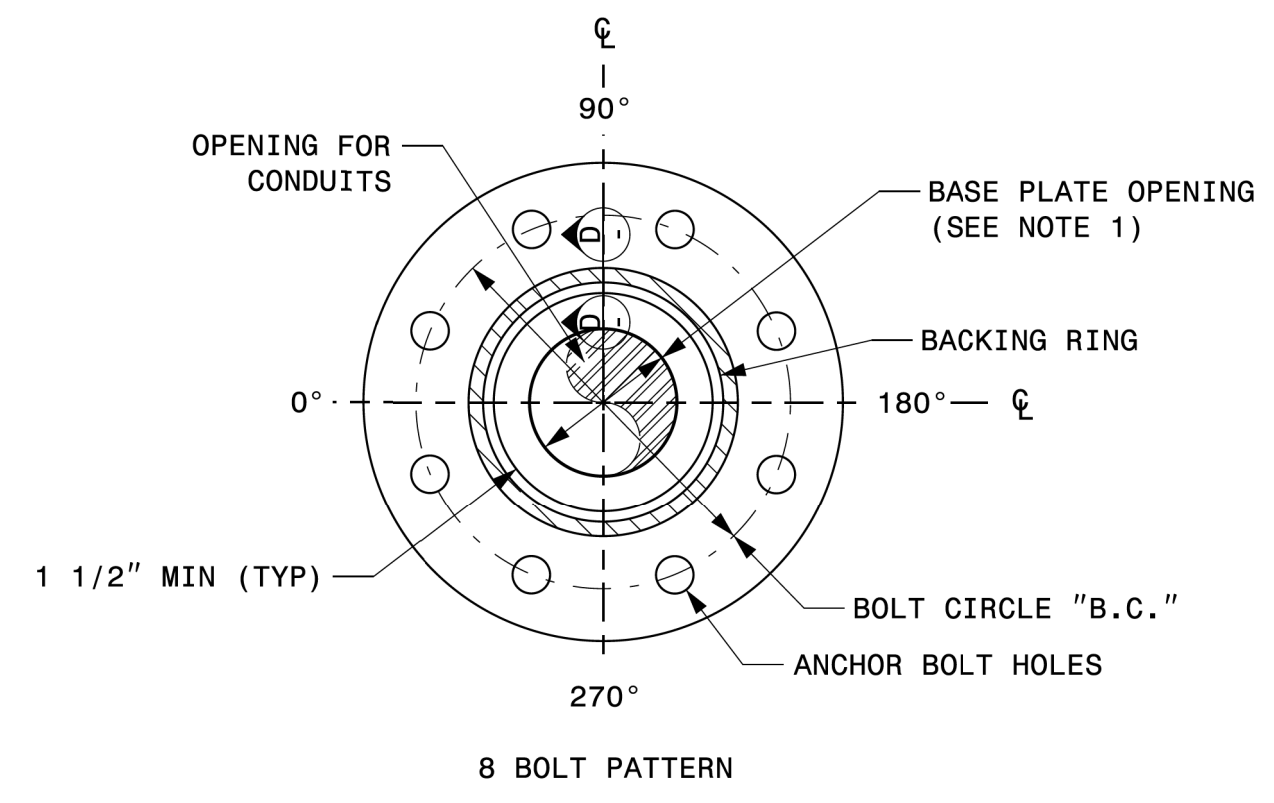
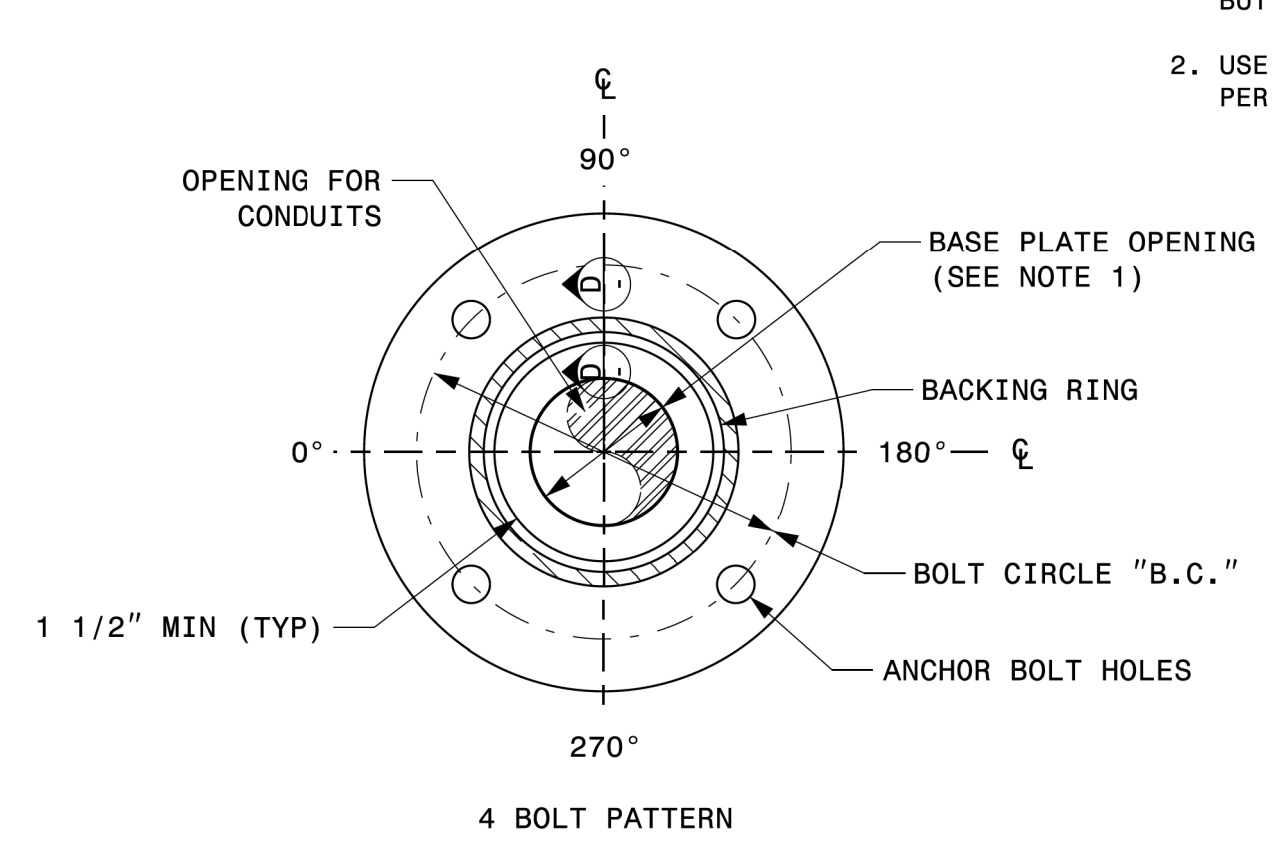
Final

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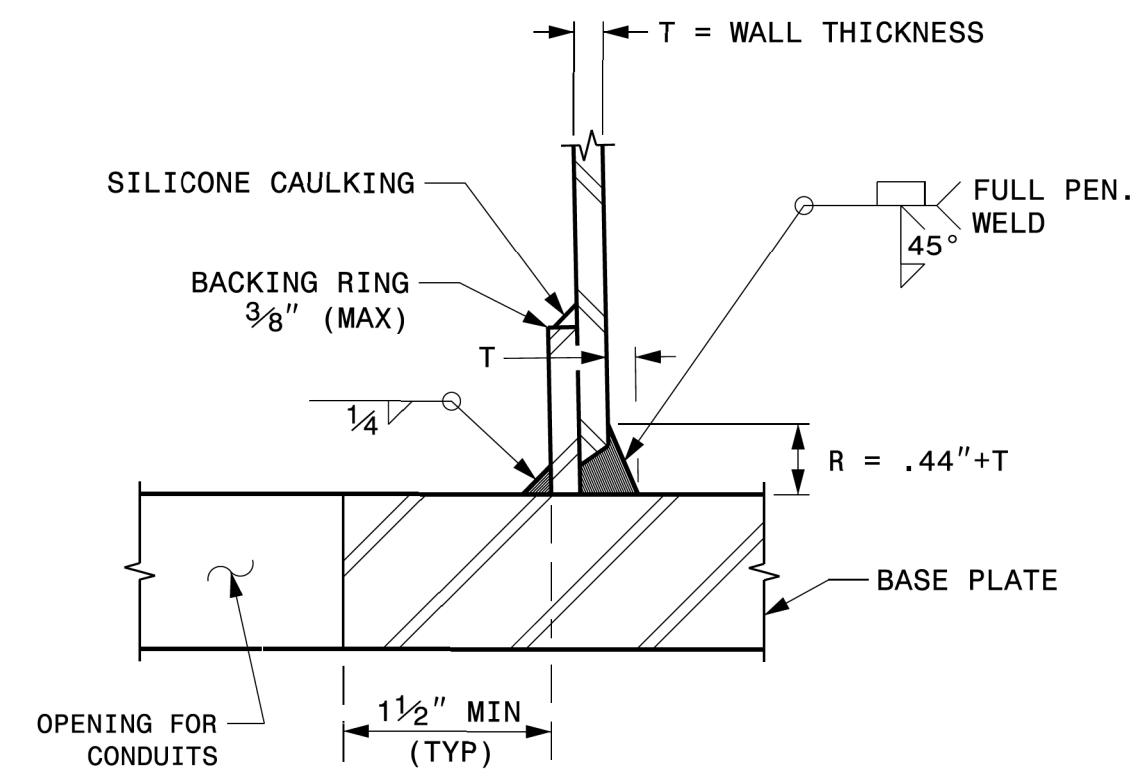
 MOTT MACDONALD <small>7621 Purfoy Road Suite 115 Fayetteville, NC 27526 www.mottmac.com License No. P-0669</small>	 <small>Prepared for the Offices of: 750 N. Greenfield Pkwy., Garner, NC 27529</small>	SPLICE DETAIL		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER RW THOMPSON 032711			
		Division 07 Guilford Co., Greensboro					
		PLAN DATE: January 2023 PREPARED BY: IN Avery REVISIONS:	REVIEWED BY: RW Thompson REVIEWED BY: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>INIT.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		INIT.	DATE	
INIT.	DATE						
SIGNATURE _____ DATE _____							

PROJECT ID. NO.	SHEET NO.
	Sig.M9

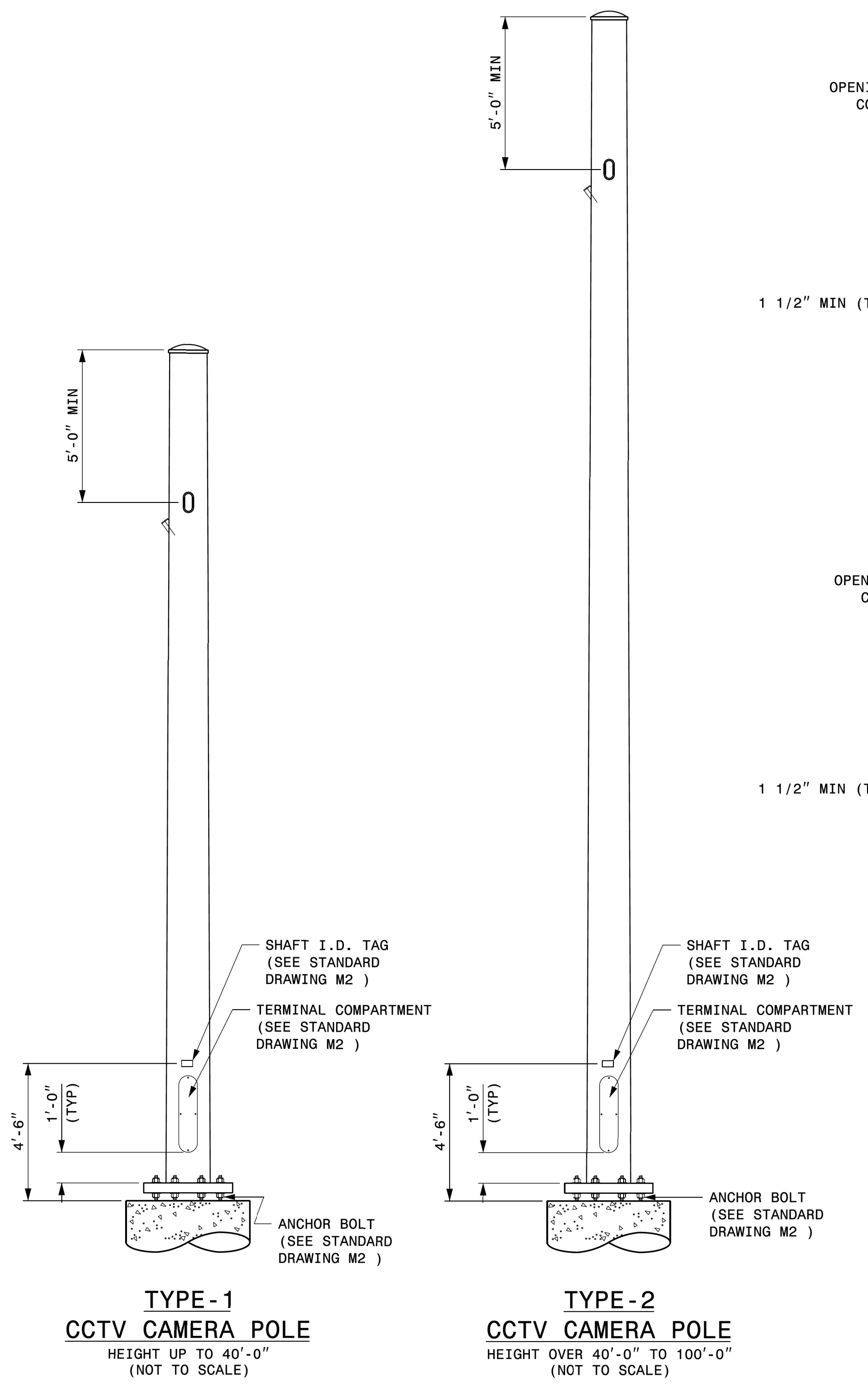
- NOTES:
1. OPENING IN POLE BASE SHALL BE EQUAL TO POLE BASE INSIDE DIAMETER MINUS 3 1/2" BUT SHALL NOT BE LESS THAN 8 1/2".
 2. USE COMPACT SECTION CRITERIA D/T RATIO PER AASHTO LTS 6TH EDITION SECTION 5.5.2.



BASE PLATE DETAILS



**SECTION D-D
FULL-PENETRATION
GROOVE WELD DETAIL**



**TYPE-1
CCTV CAMERA POLE**
HEIGHT UP TO 40'-0"
(NOT TO SCALE)

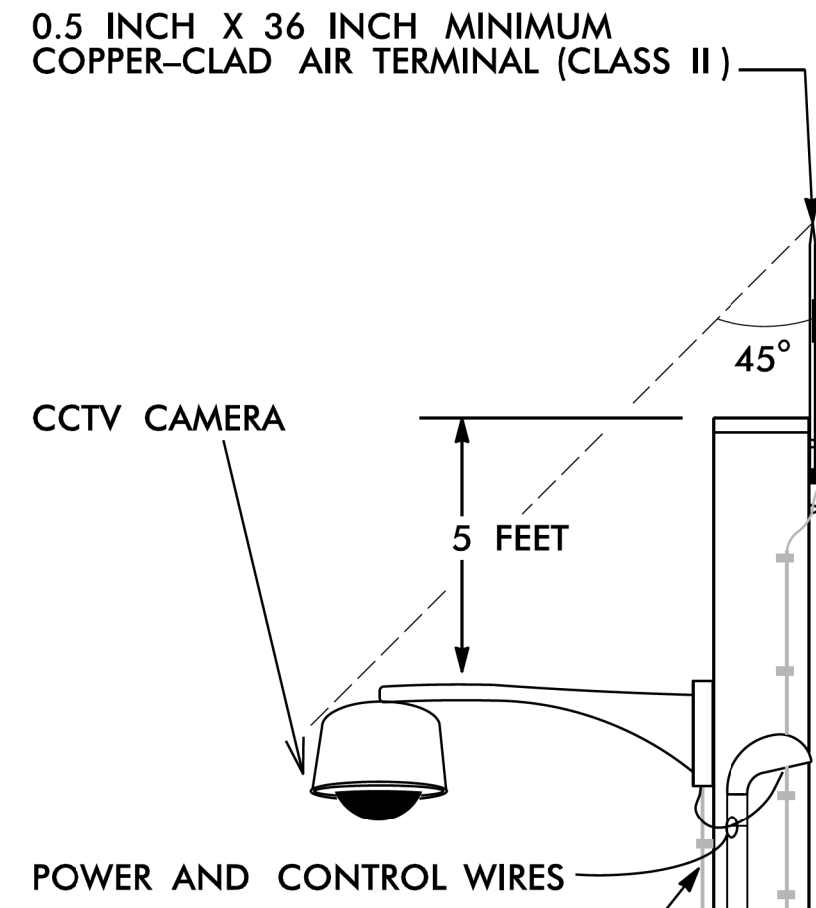
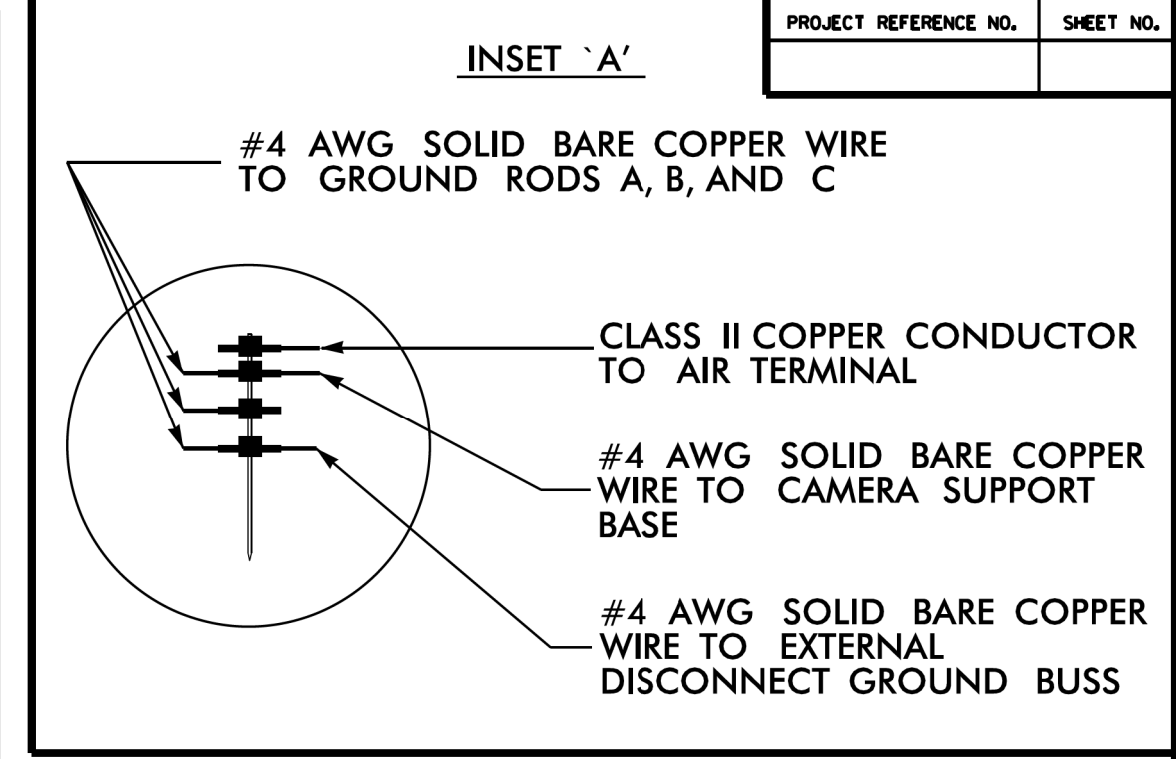
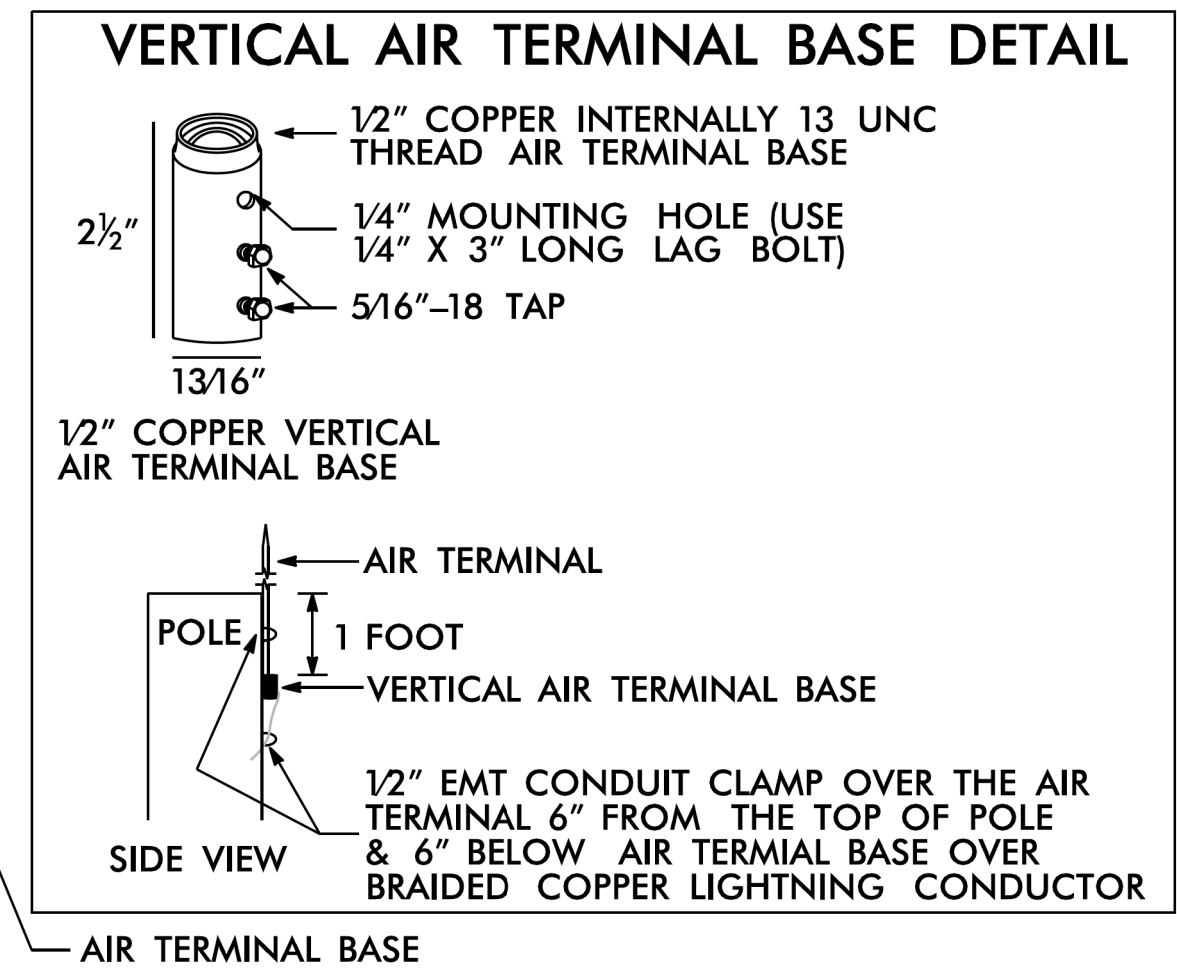
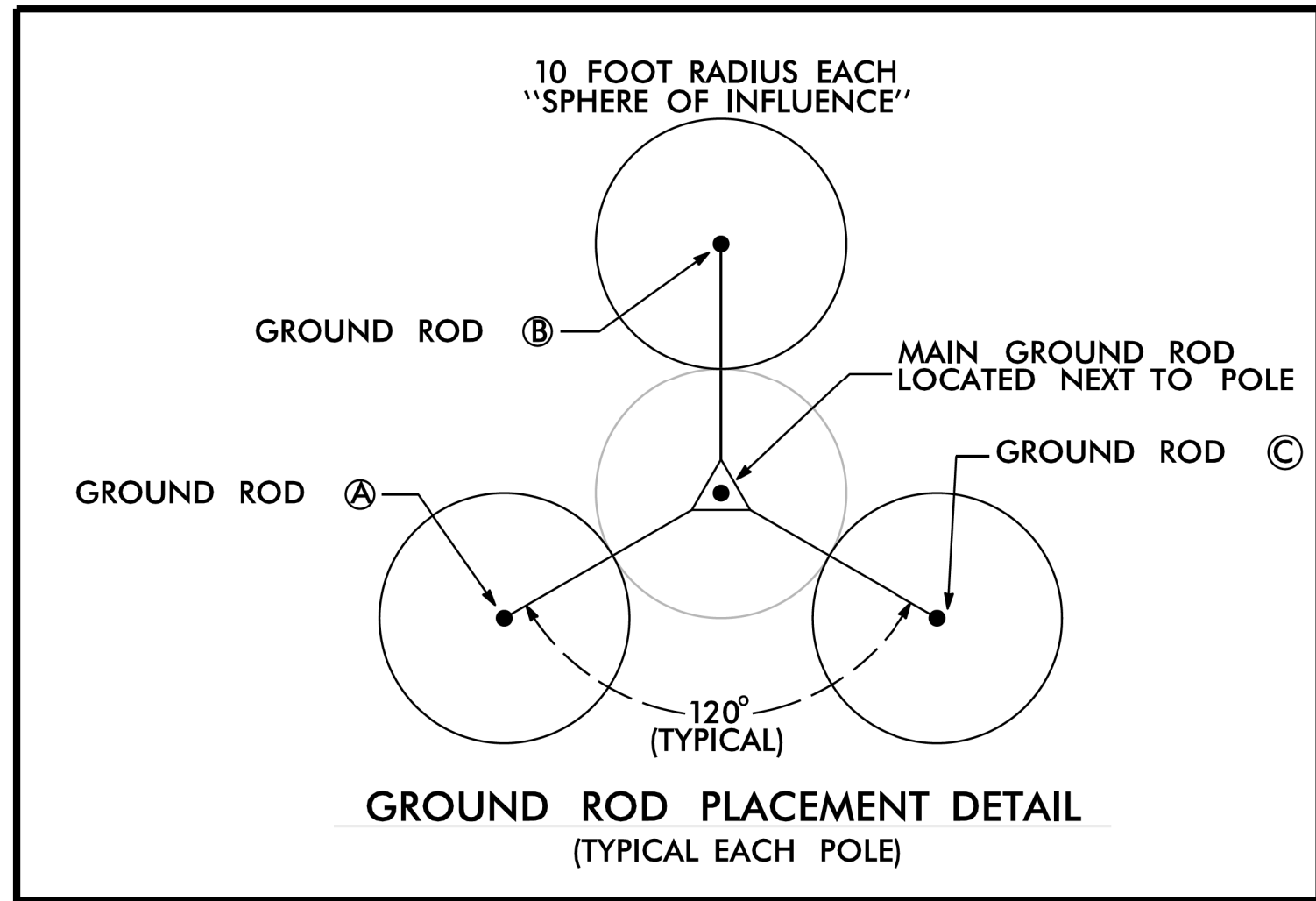
**TYPE-2
CCTV CAMERA POLE**
HEIGHT OVER 40'-0" TO 100'-0"
(NOT TO SCALE)

	<p>Typical Fabrication Details For CCTV Poles</p>							
	<p>PLAN DATE: OCTOBER 2021 DESIGNED BY: K.C. DURIGON PREPARED BY: K.C. DURIGON REVIEWED BY: D.C. SARKAR</p>	<p>DocuSigned by: <i>Devesh Sarkar</i> 26D7411BF02B401</p>						
<p>0 SCALE NA NONE</p>	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS	INIT.	DATE				<p>10/13/2021</p>
REVISIONS	INIT.	DATE						

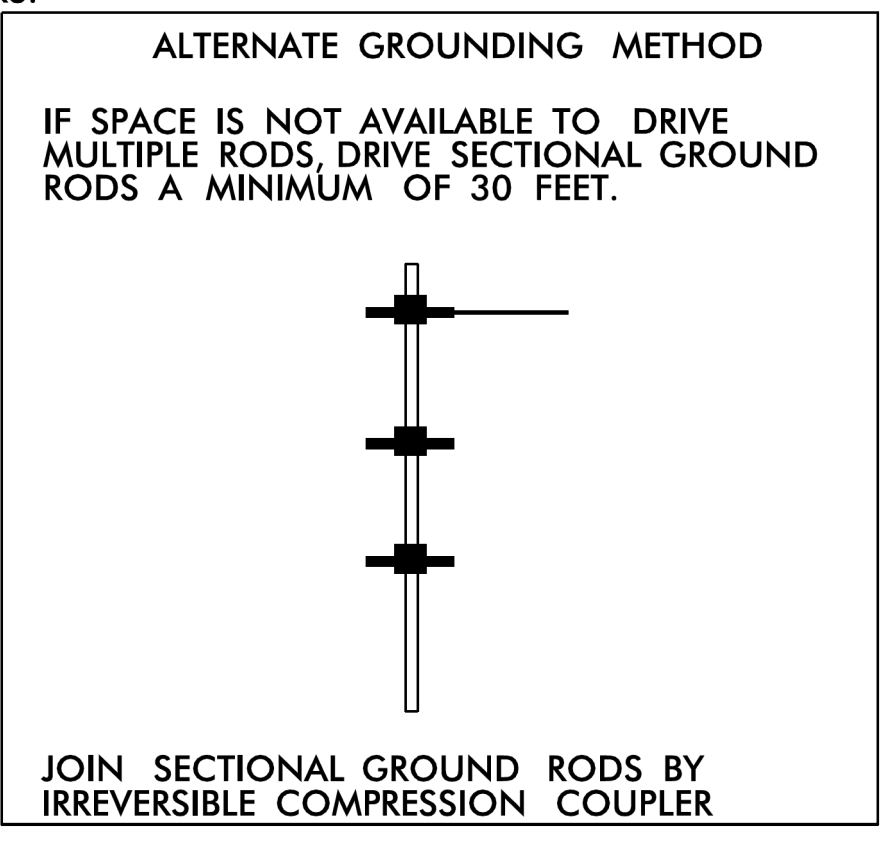
Fabrication Details - CCTV Camera Poles

13-001-2021-13244 Signal&Sign Design Section&Structure&Drawings&CCTV Pole STD Design&Sig.M9 Fabrication Details - CCTV Poles.dgn kcdurigon

<p>MOTT MACDONALD 7621 Pur Foy Road Suite 115 Fayetteville, NC 27526 www.mottmac.com License No. F-0669</p>		<p>COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS</p>						
		<p>Division 08 Guilford Co. Greensboro</p>	<p>PLAN DATE: January 2023 REVIEWED BY: RW Thompson PREPARED BY: IN Avery REVIEWED BY:</p>					
<p>0 SCALE NA NONE</p>	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS	INIT.	DATE				<p>SIGNATURE DATE</p>
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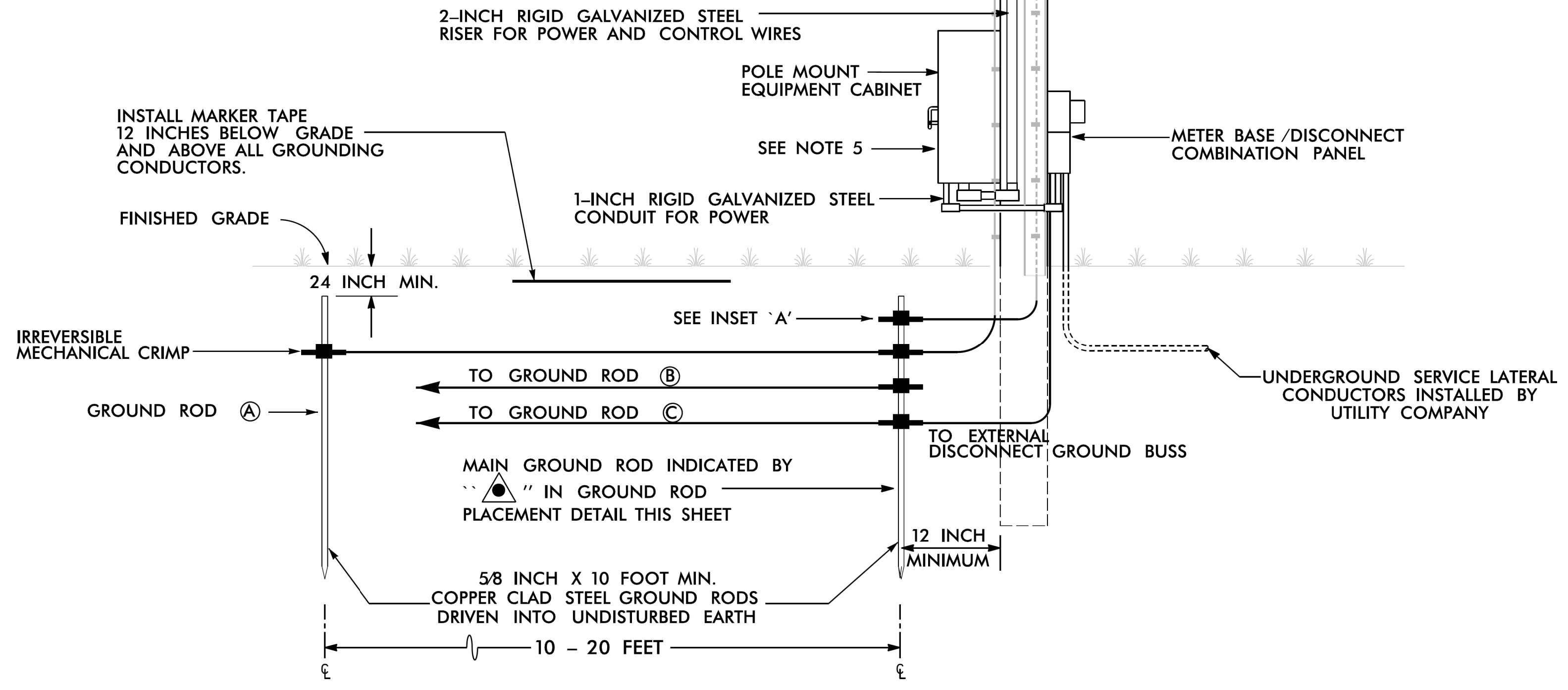


SECURE CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM), ROPE-LAY BARE COPPER LIGHTNING CONDUCTOR TO THE POLE ON 24 INCH CENTERS. USE COPPER CABLE CLIPS DESIGNED FOR USE WITH THE CLASS II COPPER CONDUCTOR. SECURE EACH COPPER CABLE CLIP TO THE POLE USING A 0.25 INCH DIAMETER X 1.5 INCH LONG HEX HEAD, GALVANIZED SCREW.



BOND #4 AWG SOLID BARE COPPER WIRE TO CAMERA SUPPORT BASE BY AN ALUMINUM TO COPPER #2 - #14 AWG LUG. ATTACH TO CAMERA BASE WITH A STAINLESS STEEL SELF TAPPING SCREW. REMOVE PAINT OR PROTECTIVE COATING WHERE ATTACHING LUG ONLY.

INSTALL 2-INCH PVC U-GUARD OVER COPPER CONDUCTOR FROM GROUND LEVEL TO 10 FEET (MINIMUM) ABOVE THE GROUND.



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.

Prepared in the Offices of:

CCTV CAMERA INSTALLATION FOR WOOD POLES WITH UNDERGROUND ELECTRICAL SERVICE

TYPICAL DETAIL

PLAN DATE: JANUARY 2008 REVIEWED BY:

PREPARED BY: IN AVERY REVIEWED BY:

2018 STANDARD SPECIFICATIONS UPDATE TO IRREVERSIBLE MECHANICAL CRIMP A15.115 10297

SCALE: NONE

SIGNATURE: _____ DATE: _____

CADD FILE NAME: _____

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License No. F-0669

Prepared for the Offices of:

250 N. Greenfield Pkwy., Garner, NC 27529

SCALE: NONE

COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division 08 Guilford Co. Greensboro

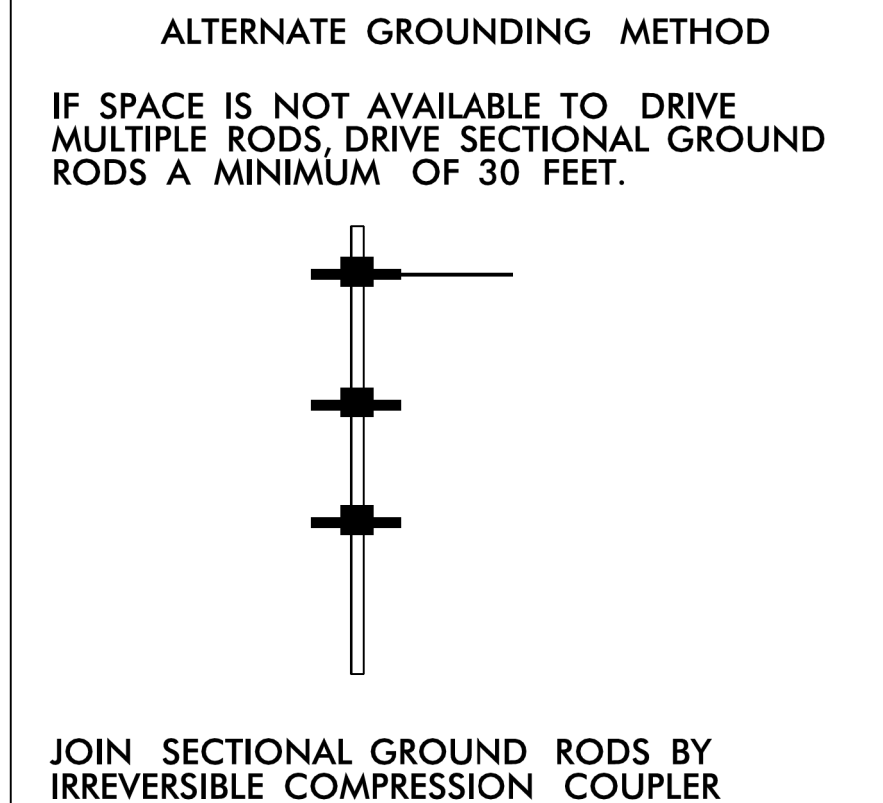
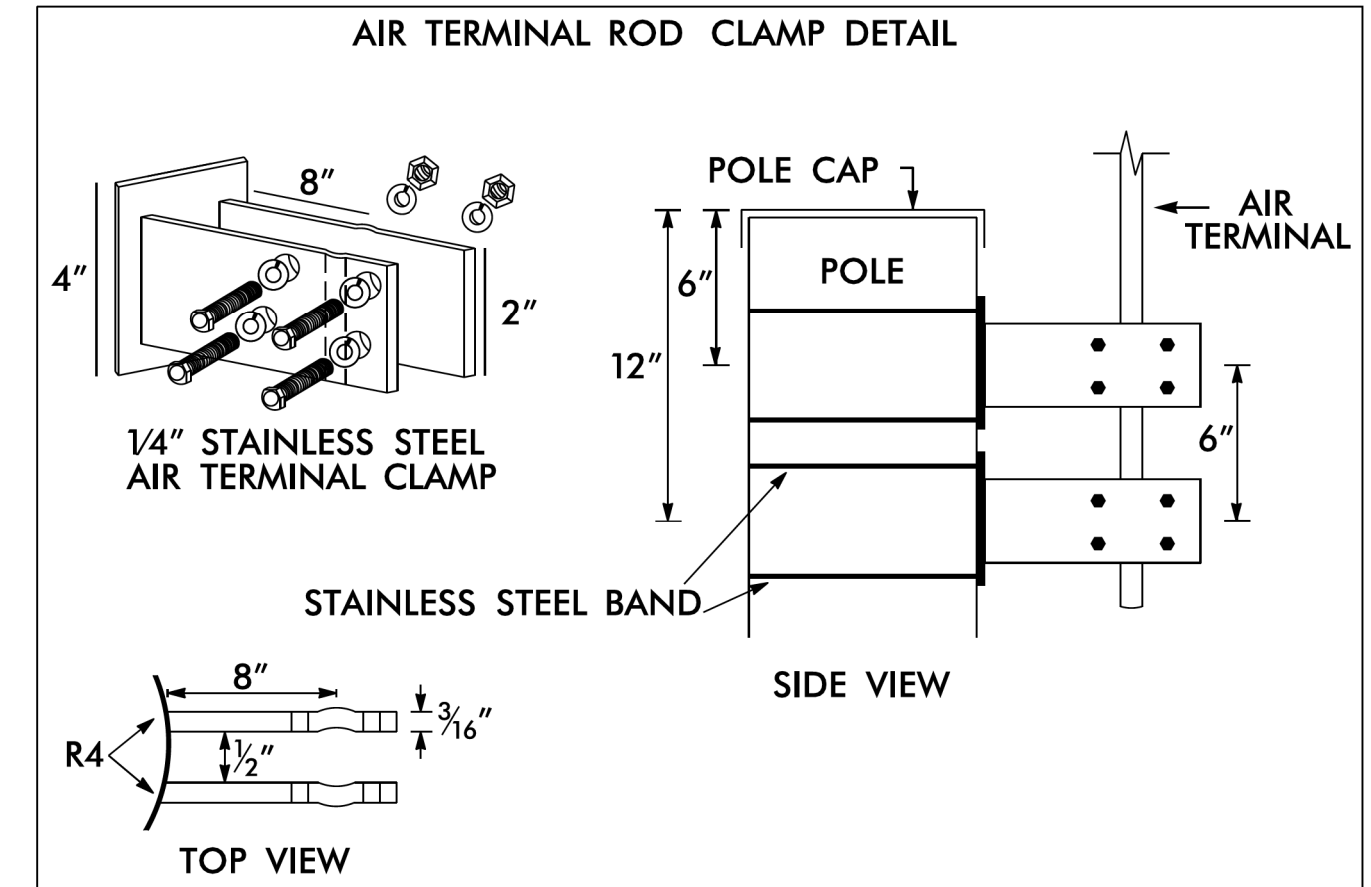
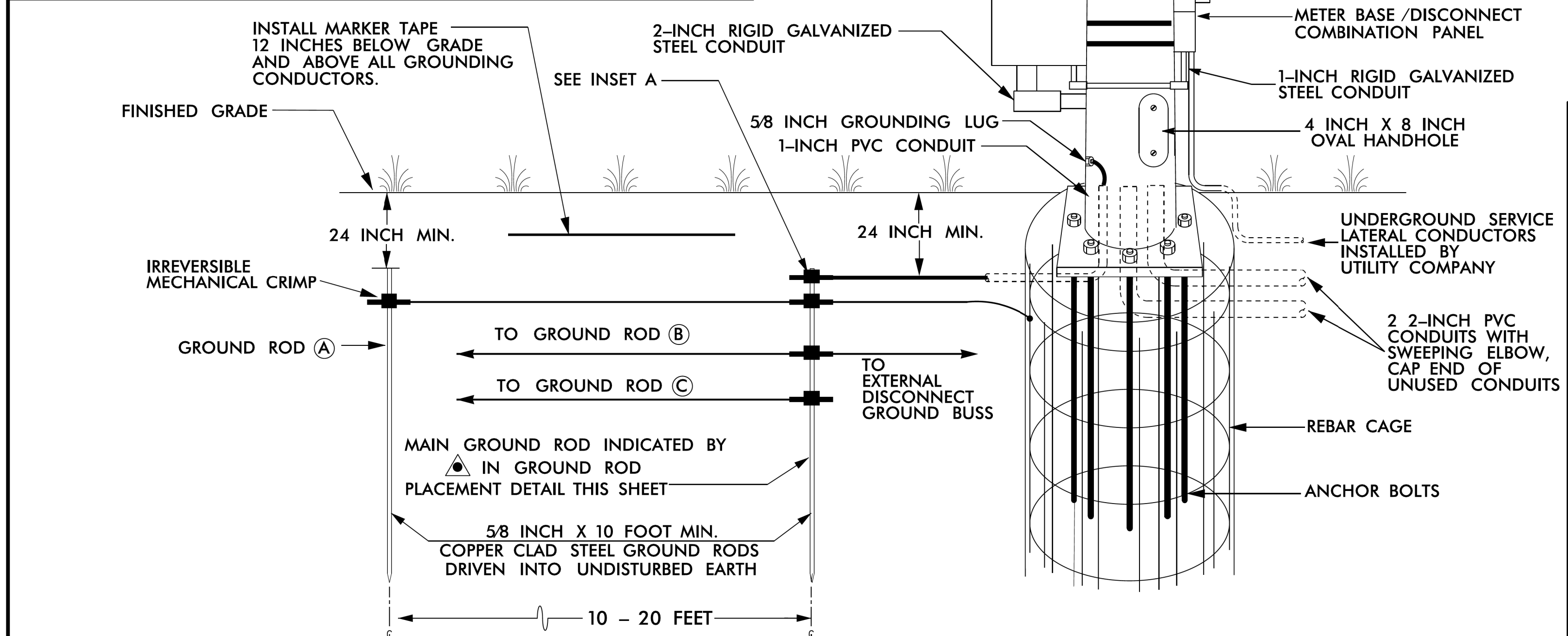
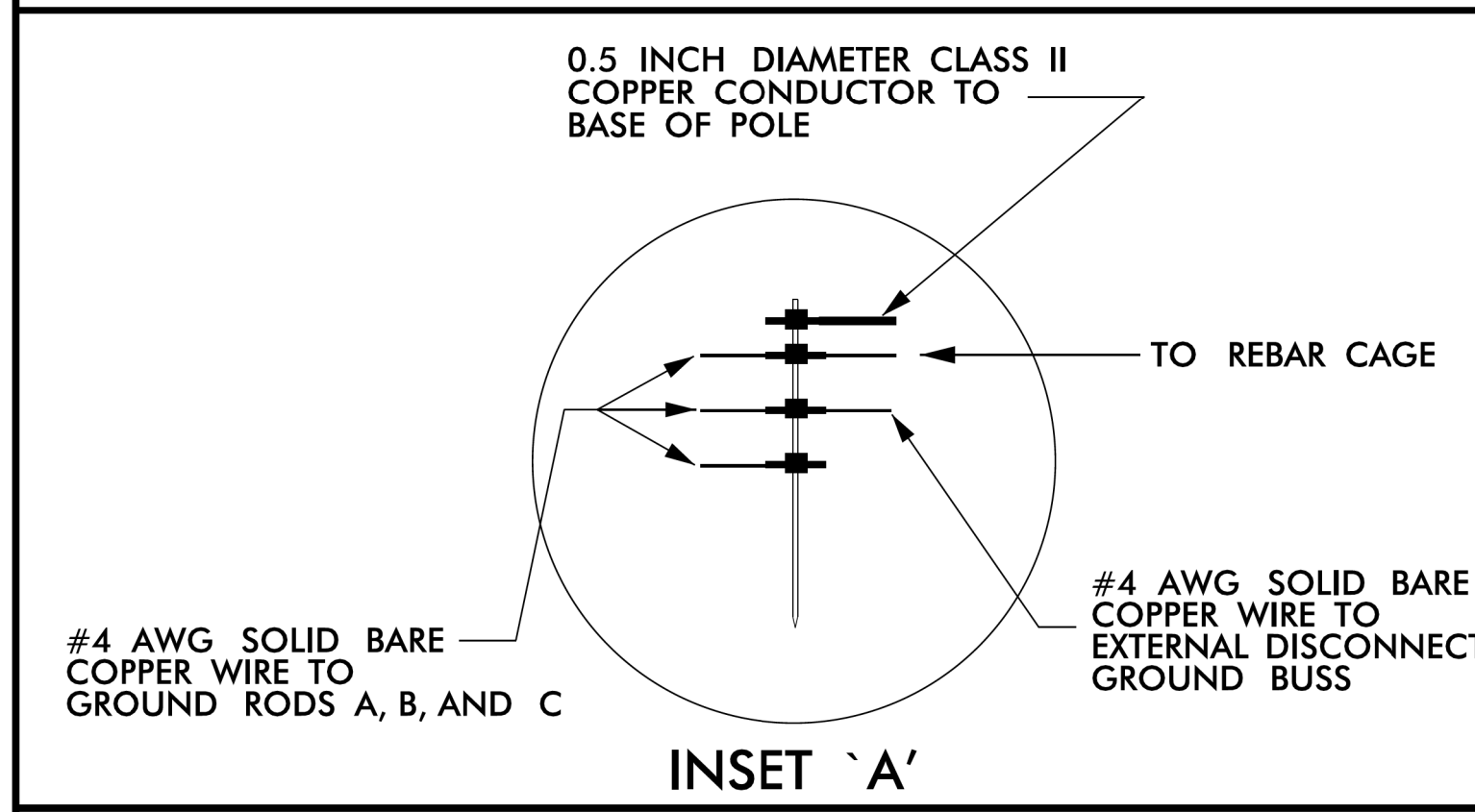
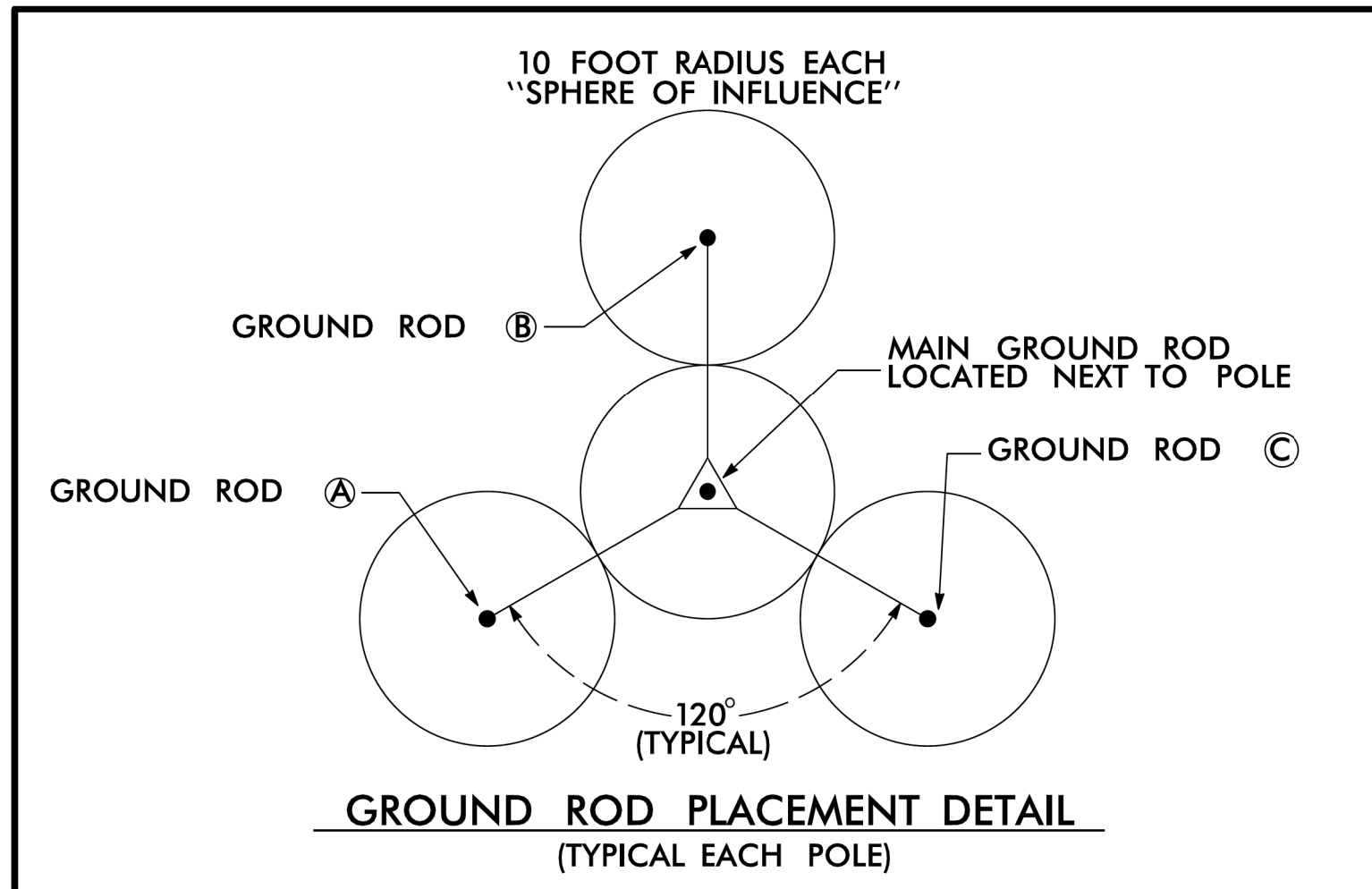
PLAN DATE: January 2023 REVIEWED BY: RW Thompson

PREPARED BY: IN Avery REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL

SIGNATURE: _____ 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. REFER TO STANDARD DRAWING 1700-2 FOR ALTERNATE GROUND ROD INSTALLATION METHOD AS APPROVED BY THE ENGINEER.
 7. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.

	CCTV CAMERA INSTALLATION FOR METAL POLE WITH UNDERGROUND ELECTRICAL SERVICE TYPICAL DETAIL		SEAL
	PLAN DATE: APRIL 2020	REVIEWED BY:	
PREPARED BY:	REVISIONS	INIT.	DATE
NTS	_____	_____	_____

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Prepared for the Offices of:

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SCALE: NONE

COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division 08 Guilford Co. Greensboro

PLAN DATE: January 2023	REVIEWED BY: RW Thompson
PREPARED BY: IN Avery	REVIEWED BY:
REVISIONS	INIT. DATE
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SEAL

SIGNATURE _____ DATE _____