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CONTRACT: C203792 TIP PROJECT: U-2524D

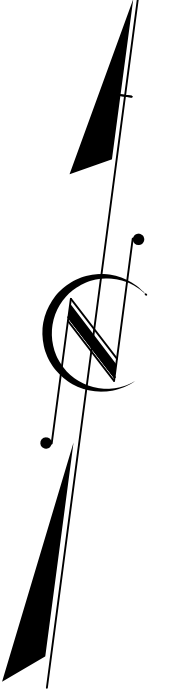
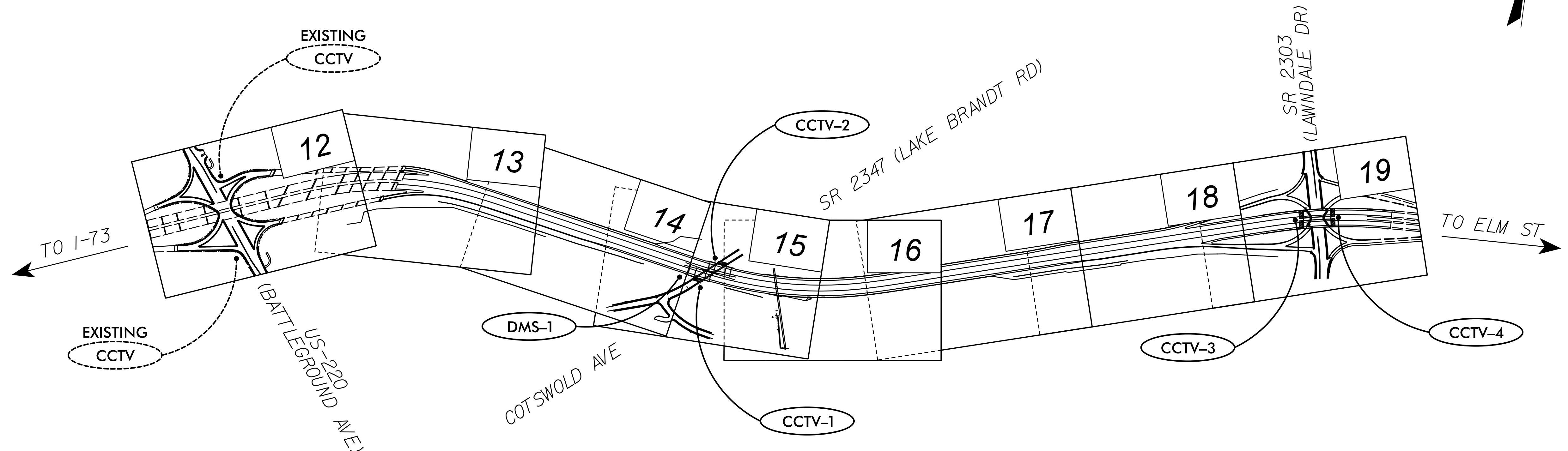
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GUILFORD COUNTY

**LOCATION: GREENSBORO WESTERN LOOP - FROM
US 220 (BATTLEGROUND AVENUE) TO
SR 2303 (LAWNDALE DRIVE)**

**TYPE OF WORK: COMMUNICATIONS CABLE AND CONDUIT
ROUTING, CCTV CAMERAS AND DYNAMIC
MESSAGE SIGN INSTALLATION**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2524D	ITS-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34820.3.GVS	NHF-0708(53)	CONST.	
34820.1.2	STP-NHF-1241(1)	PE	



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2012 STANDARD SPECIFICATIONS	
PROJECT LENGTH PROJECT LENGTH = 2.10 MILES	
LETTING DATE: SEPTEMBER 20, 2016	
INDEX OF SHEETS	
ITS-1	TITLE SHEET
ITS-2	CONSTRUCTION NOTES & LEGEND
ITS-3	TYPICAL DETAILS
ITS-4	TRTMC EQUIPMENT ROOM
ITS-5-6	CCTV METAL POLE SERVICE
ITS-7-8	DMS SERVICE
ITS-9	DMS ELEVATION
ITS-10	SCHEMATIC DIAGRAM
ITS-11	NETWORK BLOCK DIAGRAM
ITS-12-19	CABLE ROUTING PLANS
ITS-20-25	SPLICE DETAILS

ROADWAY STANDARD DRAWINGS
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"
ROADWAY DESIGN UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C.,
DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND
BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1700.01	ELECTRICAL SERVICE OPTIONS
1700.02	ELECTRICAL SERVICE GROUNDING
1715.01	UNDERGROUND CONDUIT-TRENCHING
1716.01	JUNCTION BOXES
1720.01	WOOD POLES
1730.01	FIBER-OPTIC CABLE
1751.01	CONTROLLER AND CABINETS
1751.02	CONTROLLER AND CABINETS

NC DOT CONTACTS:
TRANSPORTATION SAFETY AND MOBILITY
INTELLIGENT TRANSPORTATION SYSTEMS SECTION
THOMAS G. PARKER - ITS PROJECT ENGINEER
SHERRY C. YOW - ITS PROJECT DESIGN ENGINEER

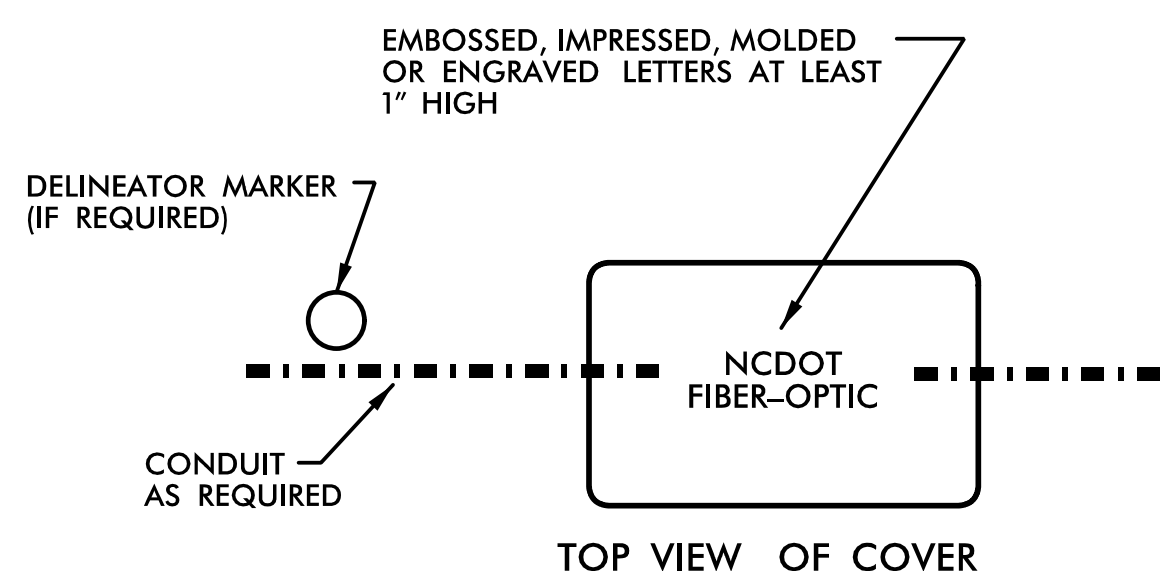
PLANS PREPARED BY:

HNTB
HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
(919) 546-8997
NC License No: C-1554

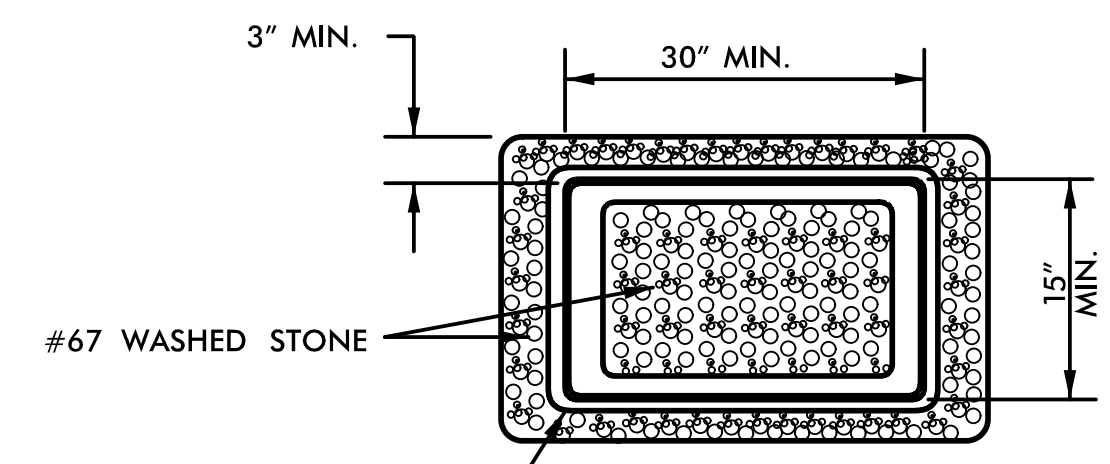
HNTB CONTACTS: HARVEY L. WINSTEAD, PE - PROJECT MANAGER
TRACEY R. TERRELL, PROJECT DESIGN TECHNICIAN

750 N. Greenfield Pkwy., Garner, NC 27529

DocuSigned by:
H. L. Winstead, Jr. 4/25/2016

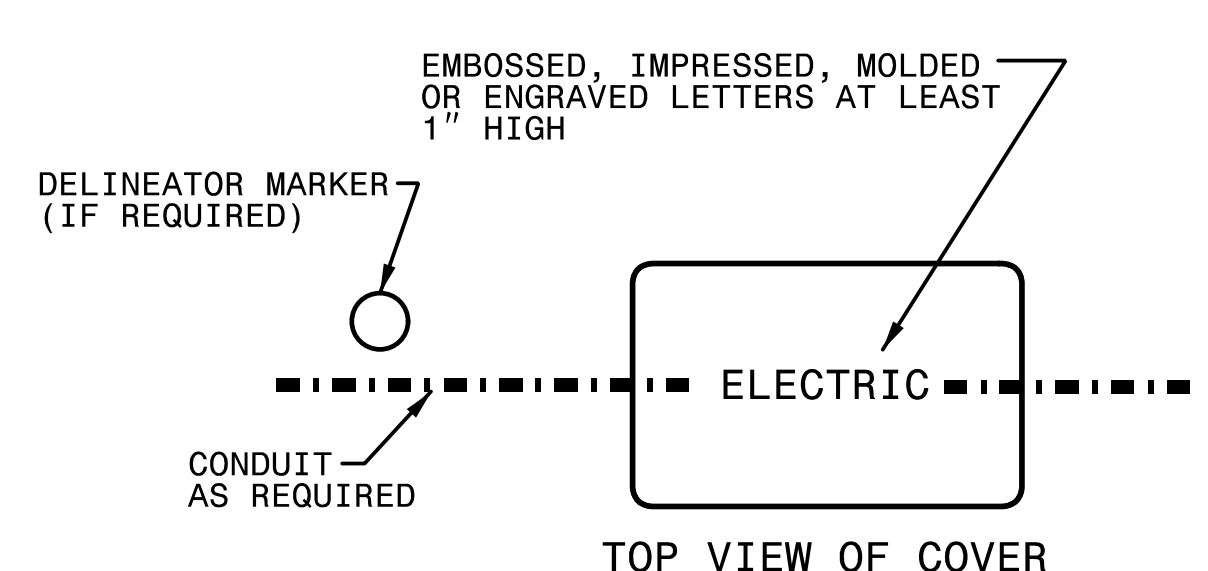


TOP VIEW OF COVER

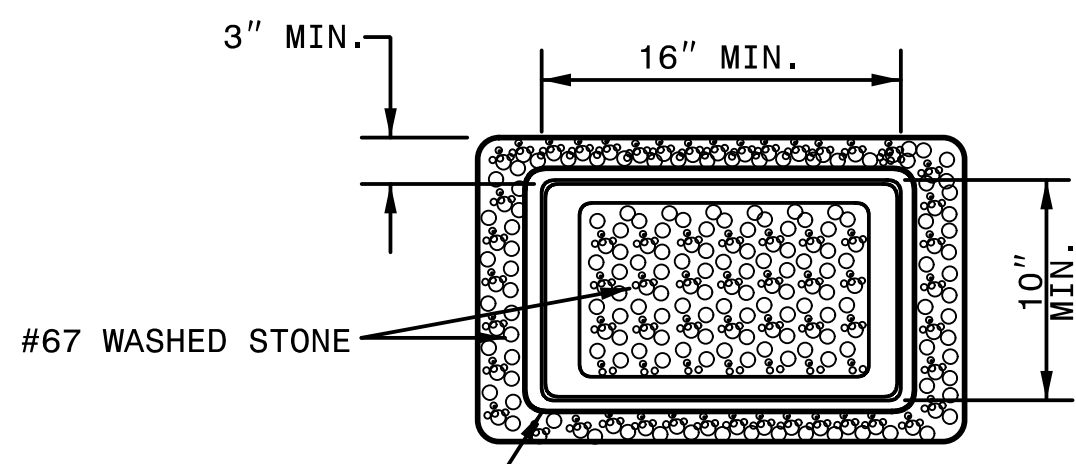


TOP VIEW WITHOUT COVER

OVERSIZED HEAVY DUTY JUNCTION BOX
TYPICAL DETAIL

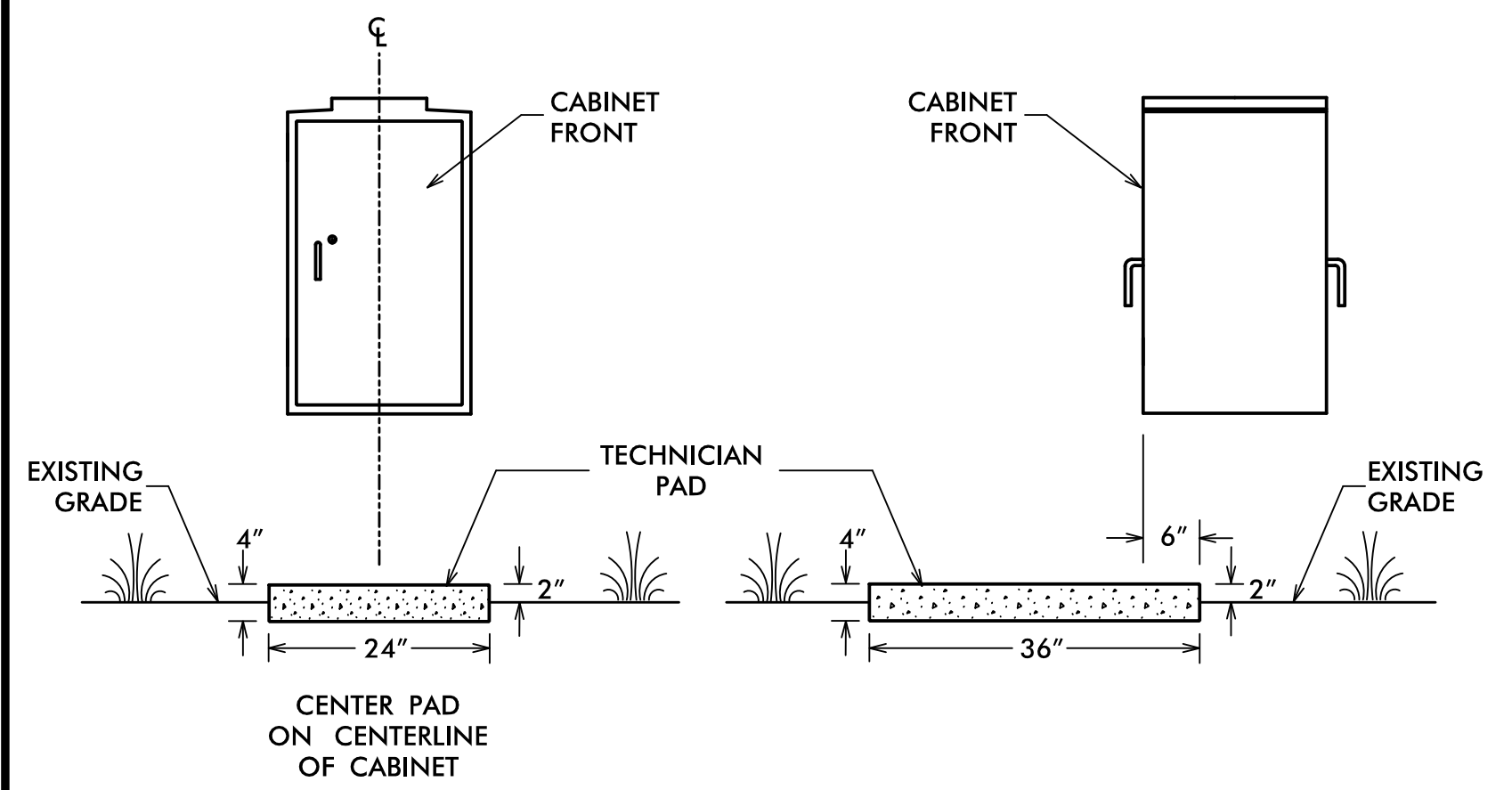


TOP VIEW OF COVER



TOP VIEW WITHOUT COVER

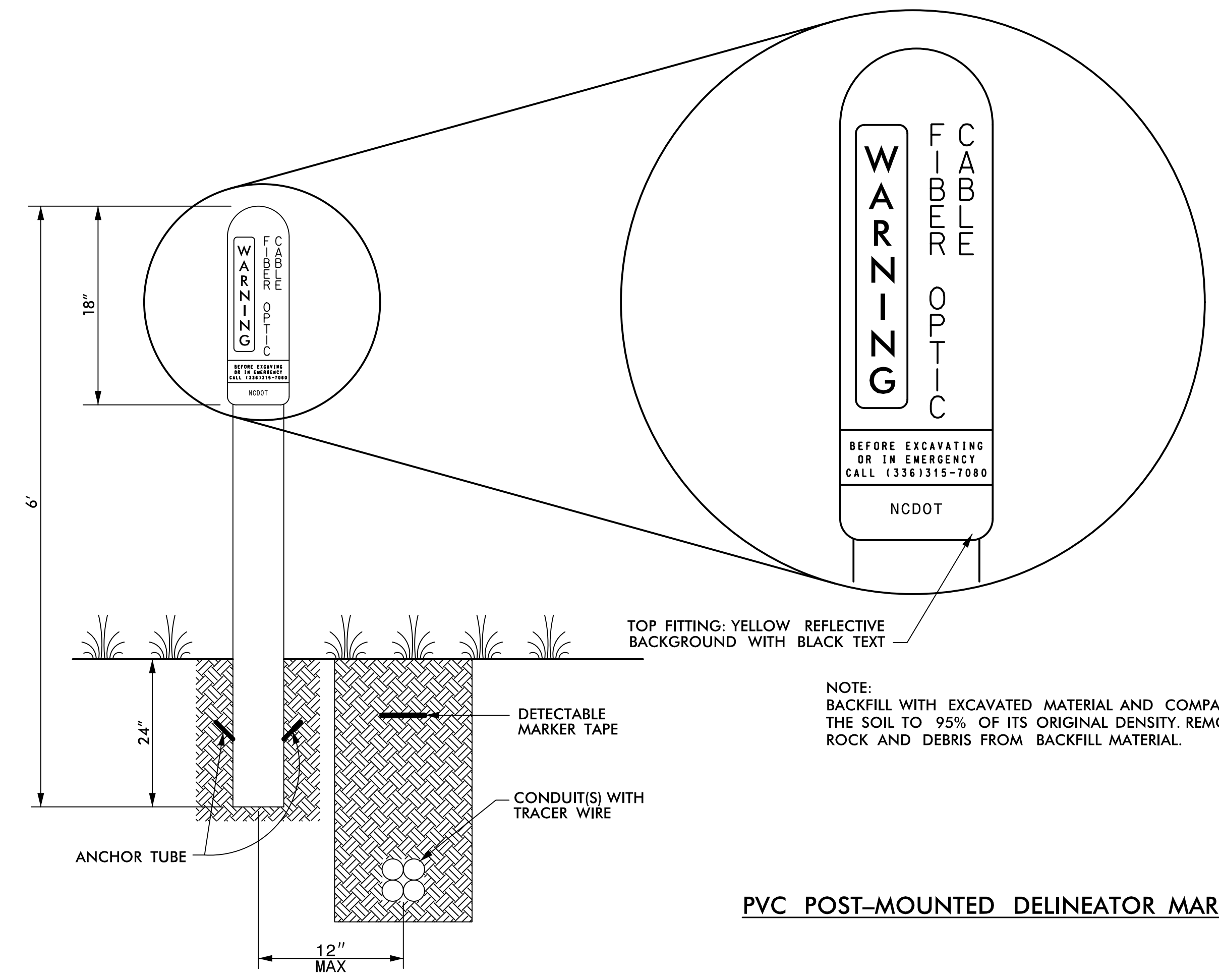
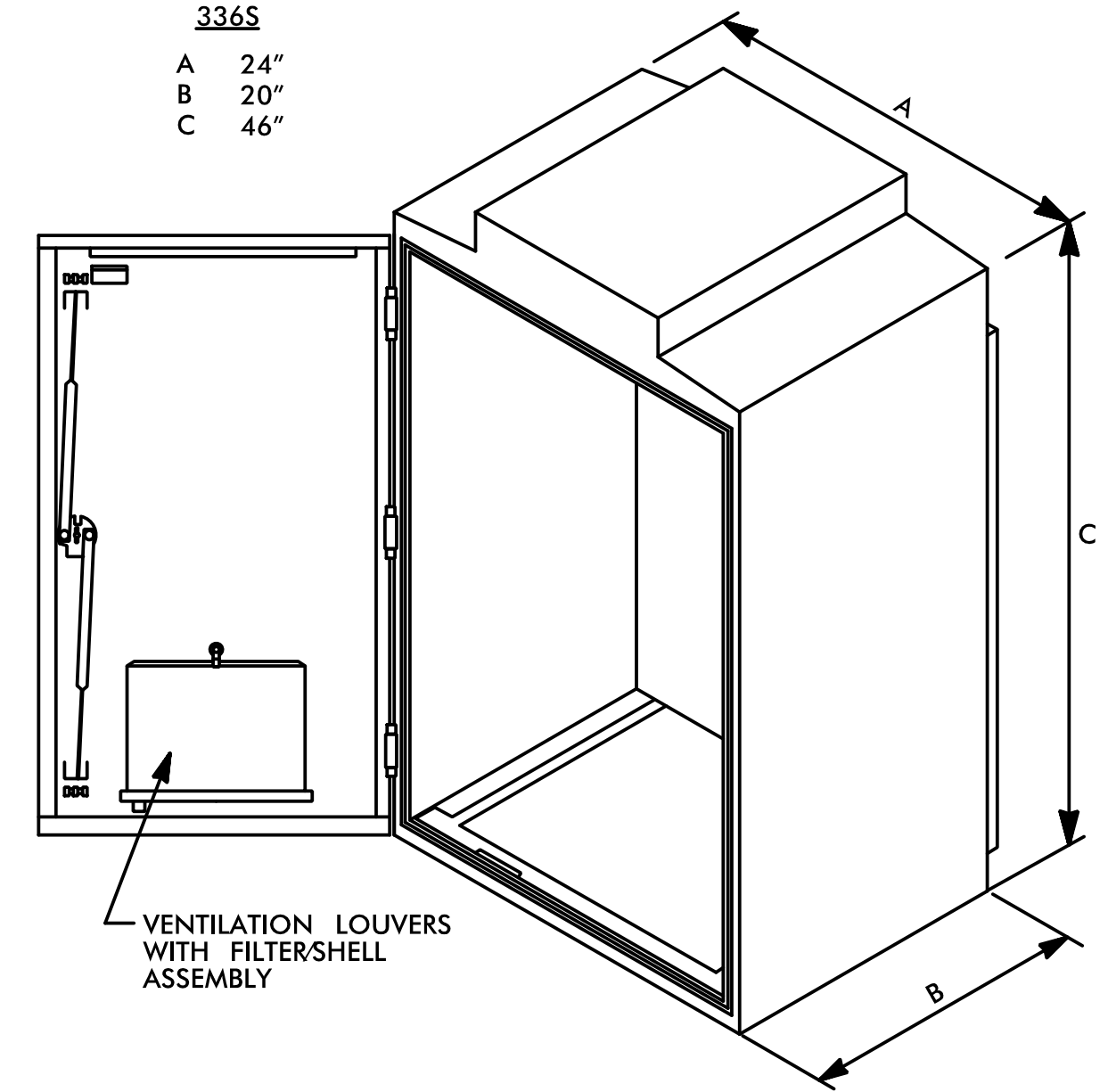
STANDARD JUNCTION BOX
TYPICAL DETAIL



EQUIPMENT CABINET
AND TECHNICIAN PAD

CABINET HOUSING DIMENSIONS

336S
A 24"
B 20"
C 46"



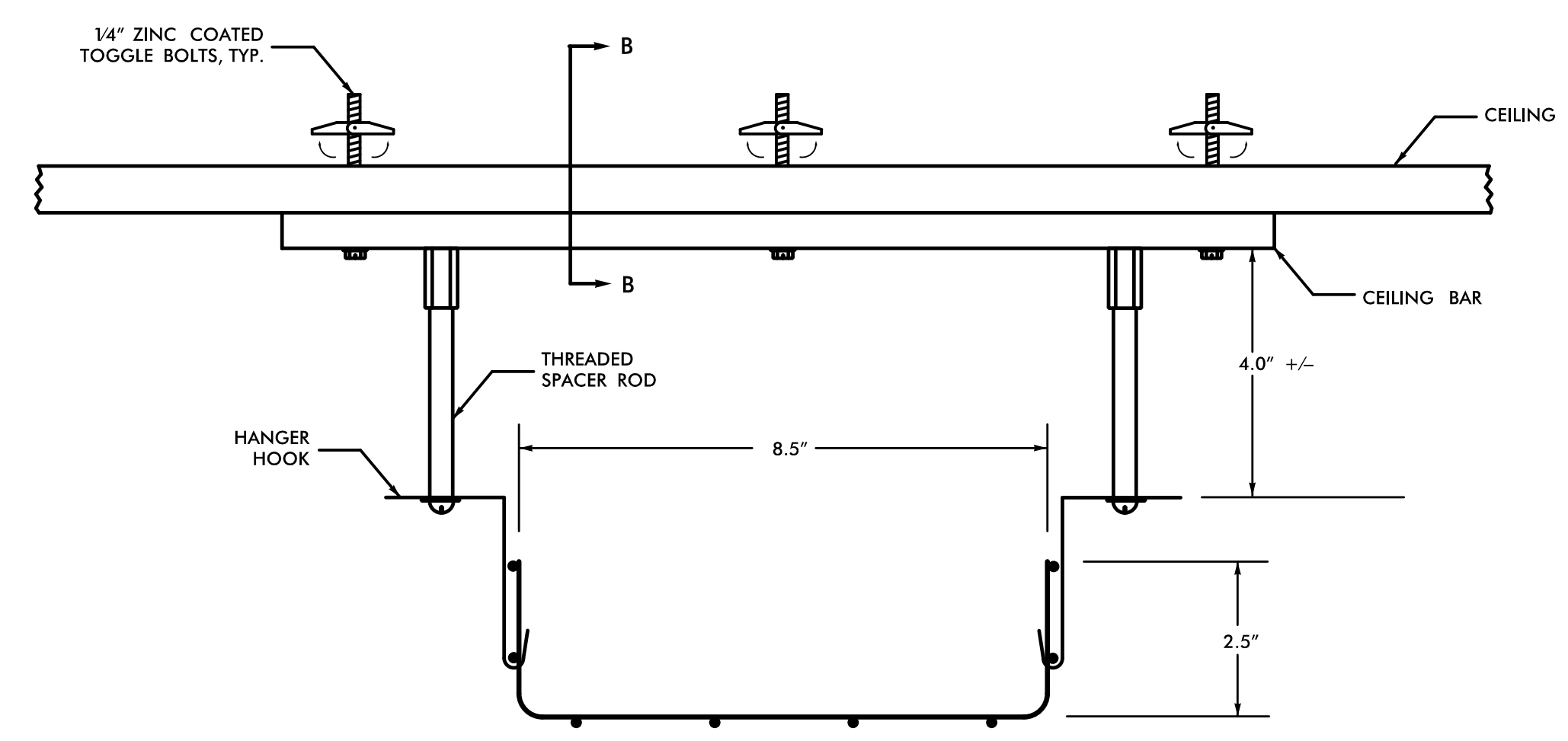
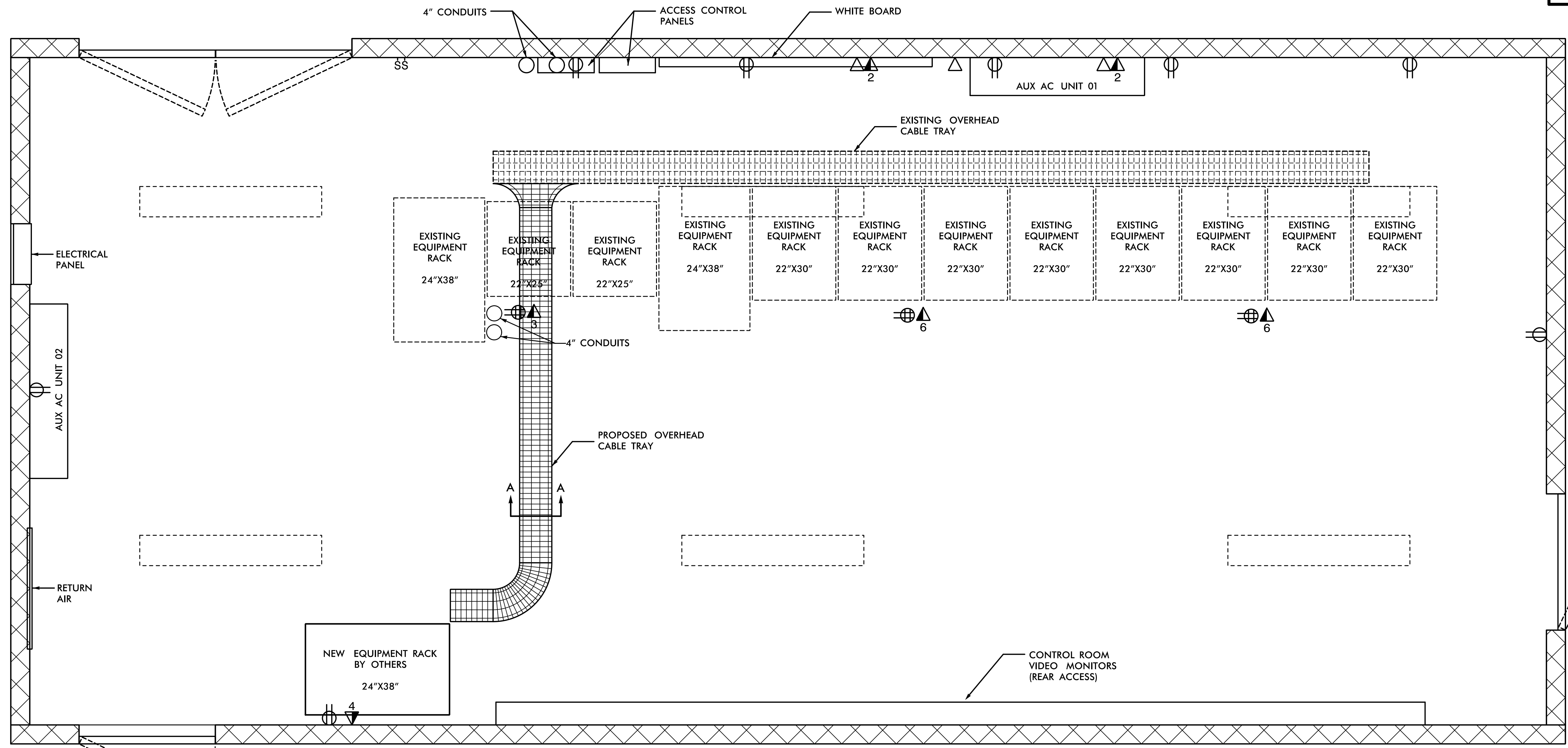
PVC POST-MOUNTED DELINEATOR MARKER

NOTE:
BACKFILL WITH EXCAVATED MATERIAL AND COMPACT THE SOIL TO 95% OF ITS ORIGINAL DENSITY. REMOVE ROCK AND DEBRIS FROM BACKFILL MATERIAL.

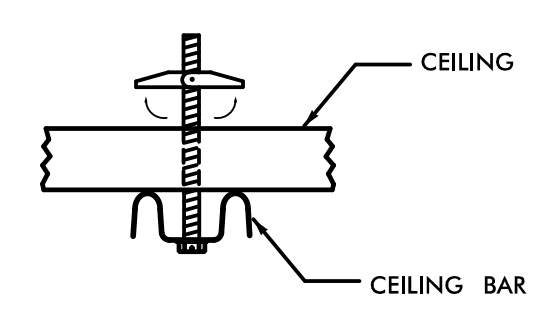
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Raleigh, North Carolina 27609
NC License No: C-1554

<p>Plans Prepared for:</p> <p>250 N. Greenfield Place, Garner, NC 27529</p>	<p>TYPICAL DETAILS</p>		<p>SEAL</p>								
	<p>DIVISION 7 GUILFORD CO. GREENSBORO</p> <p>PLAN DATE: APRIL 2016 REVIEWED BY: A.D. KLINSIEK</p> <p>PREPARED BY: T.R. TERRELL REVIEWED BY: H.L. WINSTEAD</p>	<p>SCALE: NONE</p>									
<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>INIT.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	DESCRIPTION	INIT.	DATE					<p>DocuSigned by: H.L. Winstead, Jr. 4/25/2016</p> <p>ES118281427474 SIGNATURE DATE</p> <p>CADD File name: U2524D ITS-03.dgn</p>	
NO.	DESCRIPTION	INIT.	DATE								



'SECTION A-A'
NOT TO SCALE



'SECTION B-B'
NOT TO SCALE

LEGEND

- DUPLEX OUTLET
- QUAD OUTLET
- DATA OUTLET(S)
(X = NUMBER OF PORTS)
- TELEPHONE OUTLET
- FLUORESCENT LIGHT FIXTURE
- FLUORESCENT LIGHT SWITCHES

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Plans Prepared for:

250 N. Greenfield Place, Garner, NC 27529

TRMC EQUIPMENT ROOM OVERHEAD CABLE TRAY DETAIL	
DIVISION 7	GUILFORD CO. GREENSBORO
PLAN DATE: APRIL 2016	REVIEWED BY: A.D. KLINSIEK
PREPARED BY: T.R. TERRELL	REVIEWED BY: H.L. WINSTEAD
REVISIONS	INIT. DATE

SEAL

DocuSigned by:
H.L. Winstead, Jr. 4/25/2016

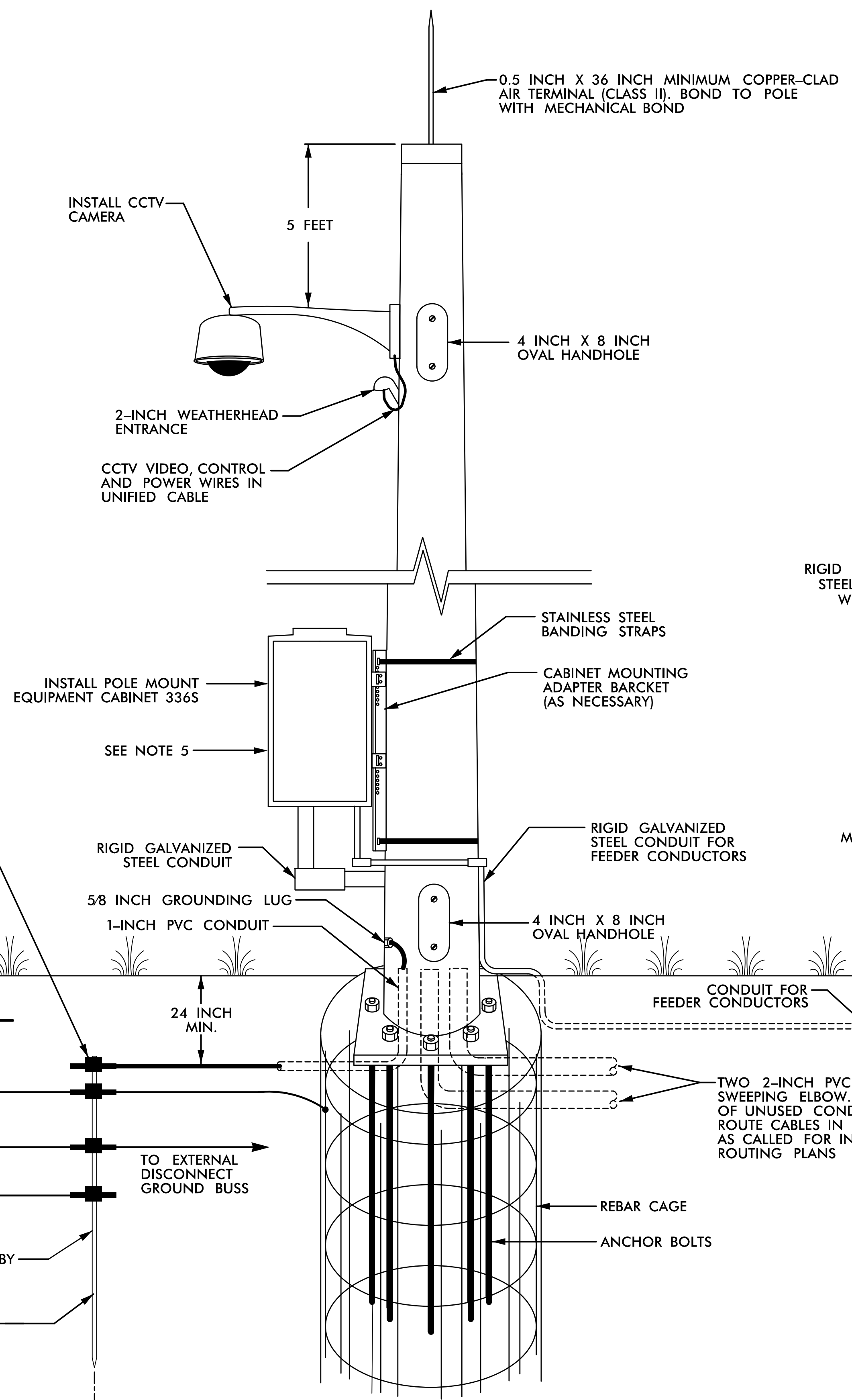
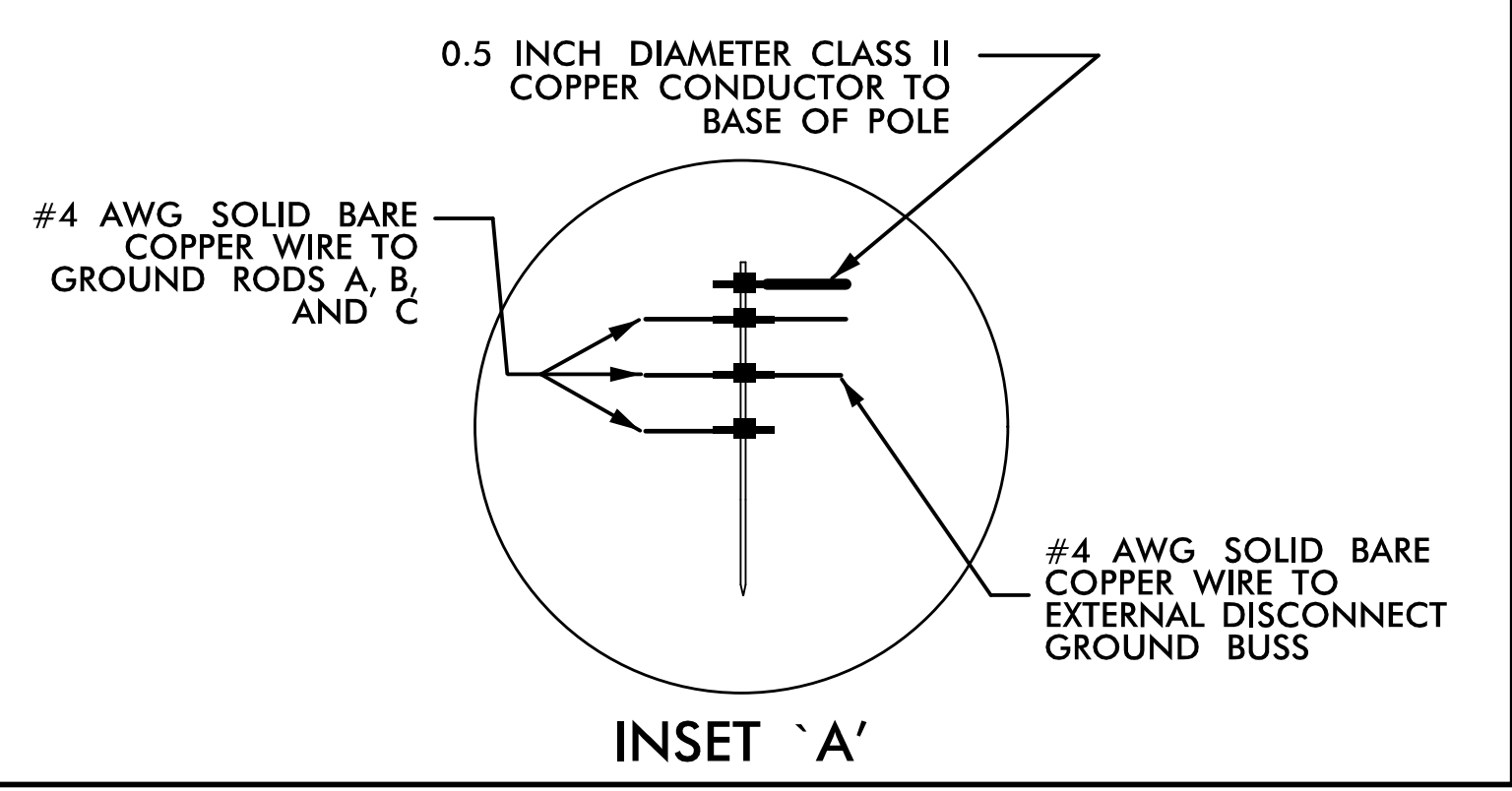
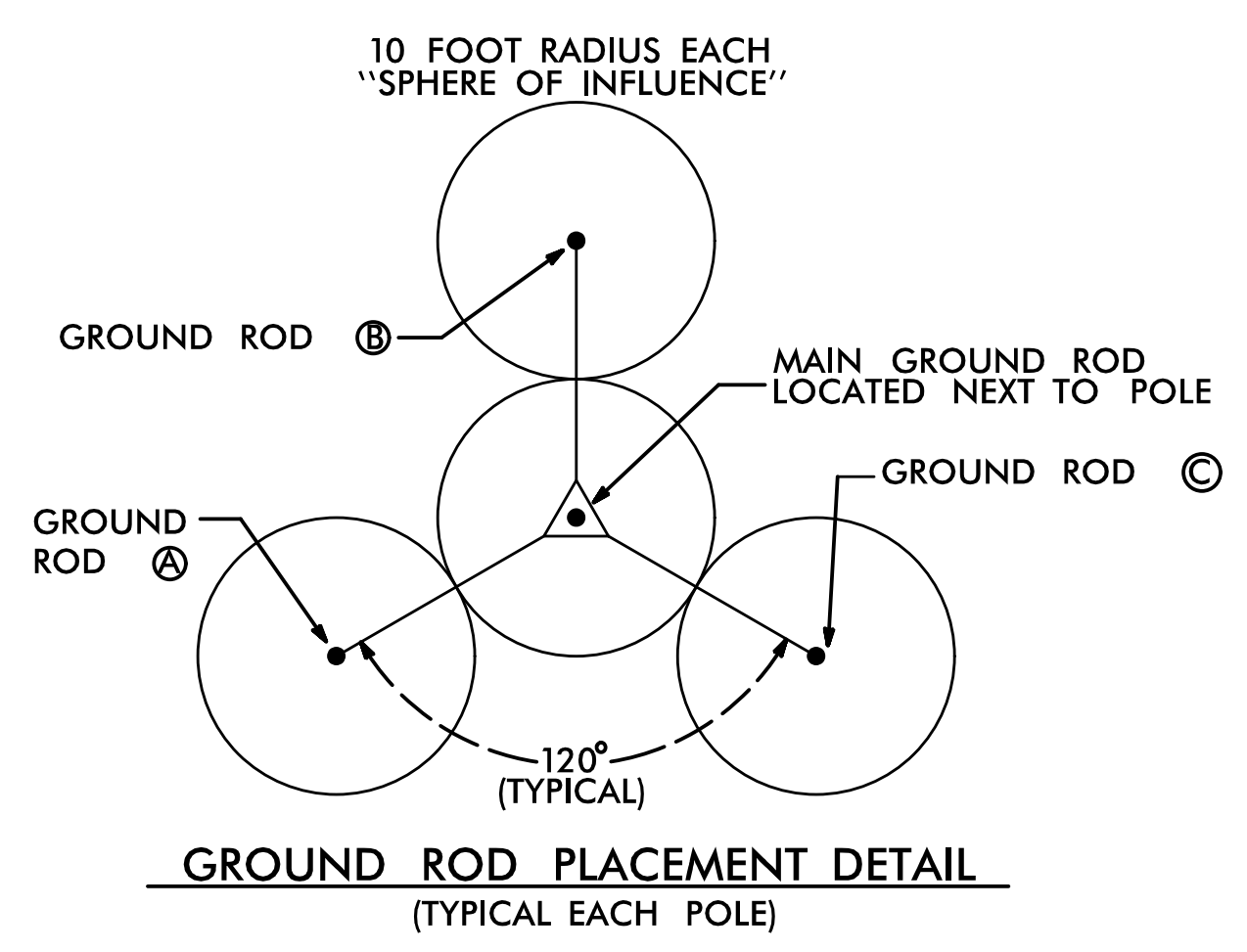
ES3162981472474

SIGNATURE DATE

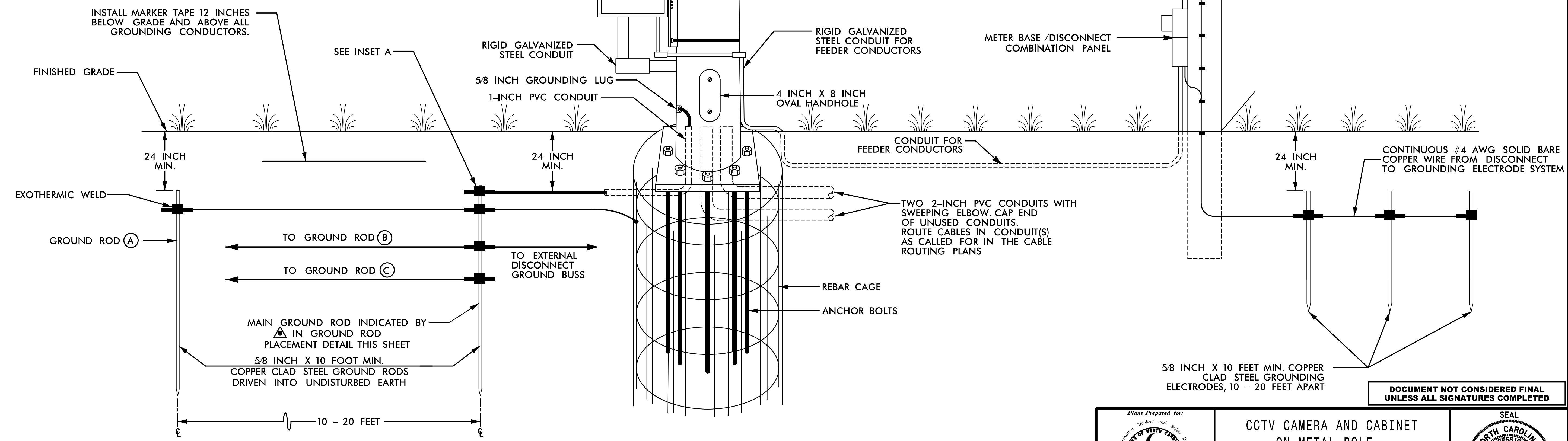
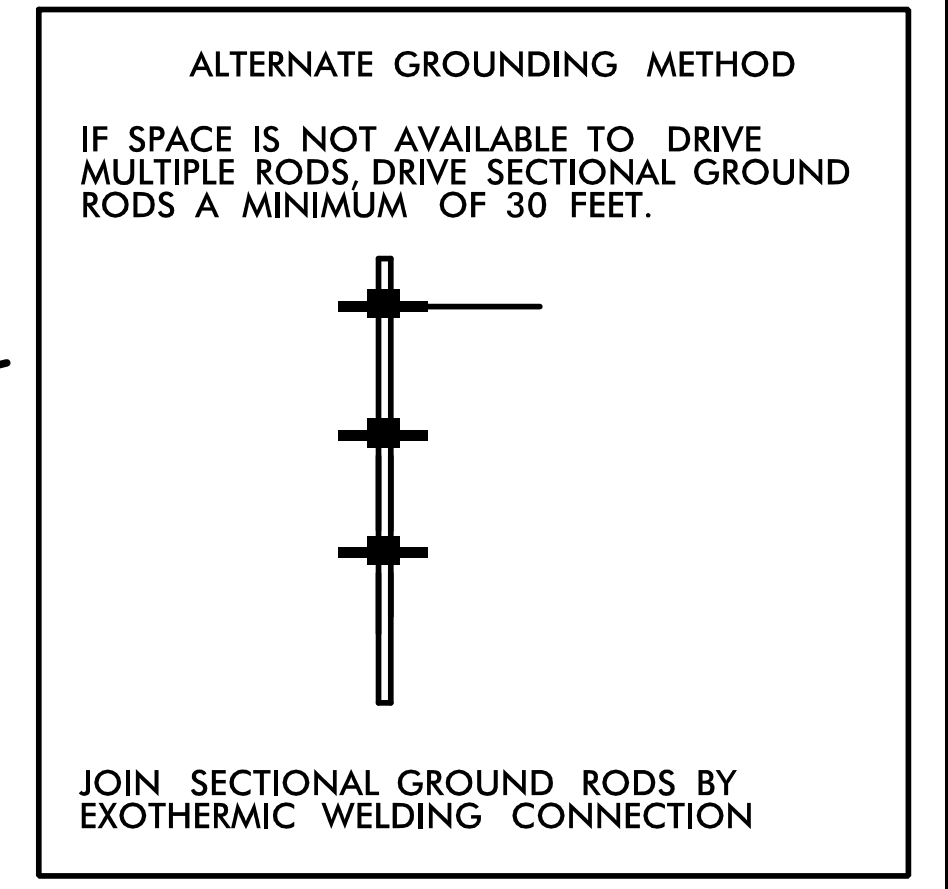
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Raleigh, North Carolina 27609
NC License No: C-1554

SCALE
0' 1'
3/4" = 1'



- NOTES**
1. BOND 0.5 INCH DIAMETER, 28 STRAND (MINIMUM) CLASS II COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD.
 2. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
 3. BOND #4 AWG SOLID BARE COPPER WIRE TO REBAR CAGE AND THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD.
 4. ENSURE CAMERA HOUSING, CAMERA, AND PAN-TILT UNIT ARE BONDED TO POLE.
 5. REMOVE BONDING JUMPER, IF PRESENT, 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.

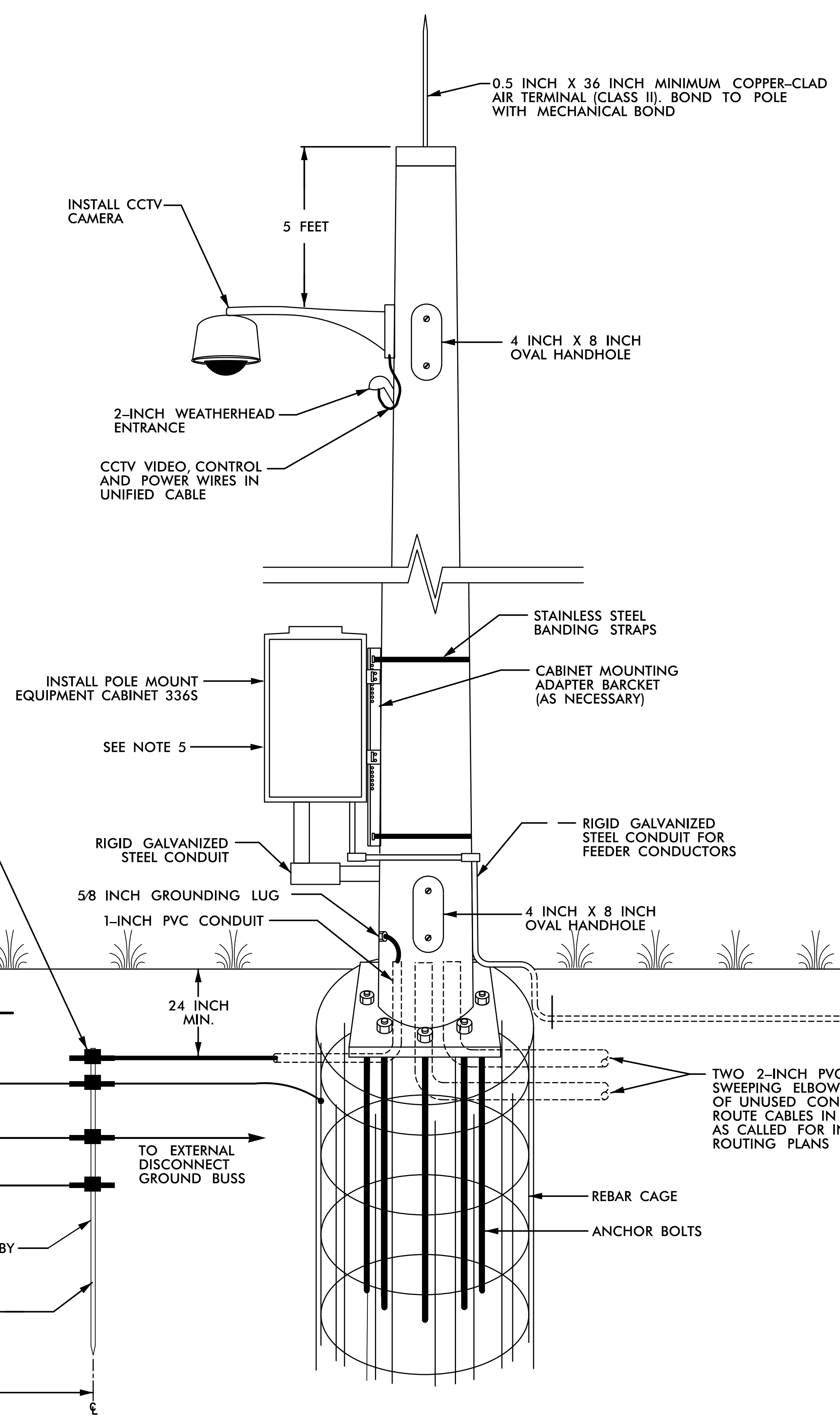
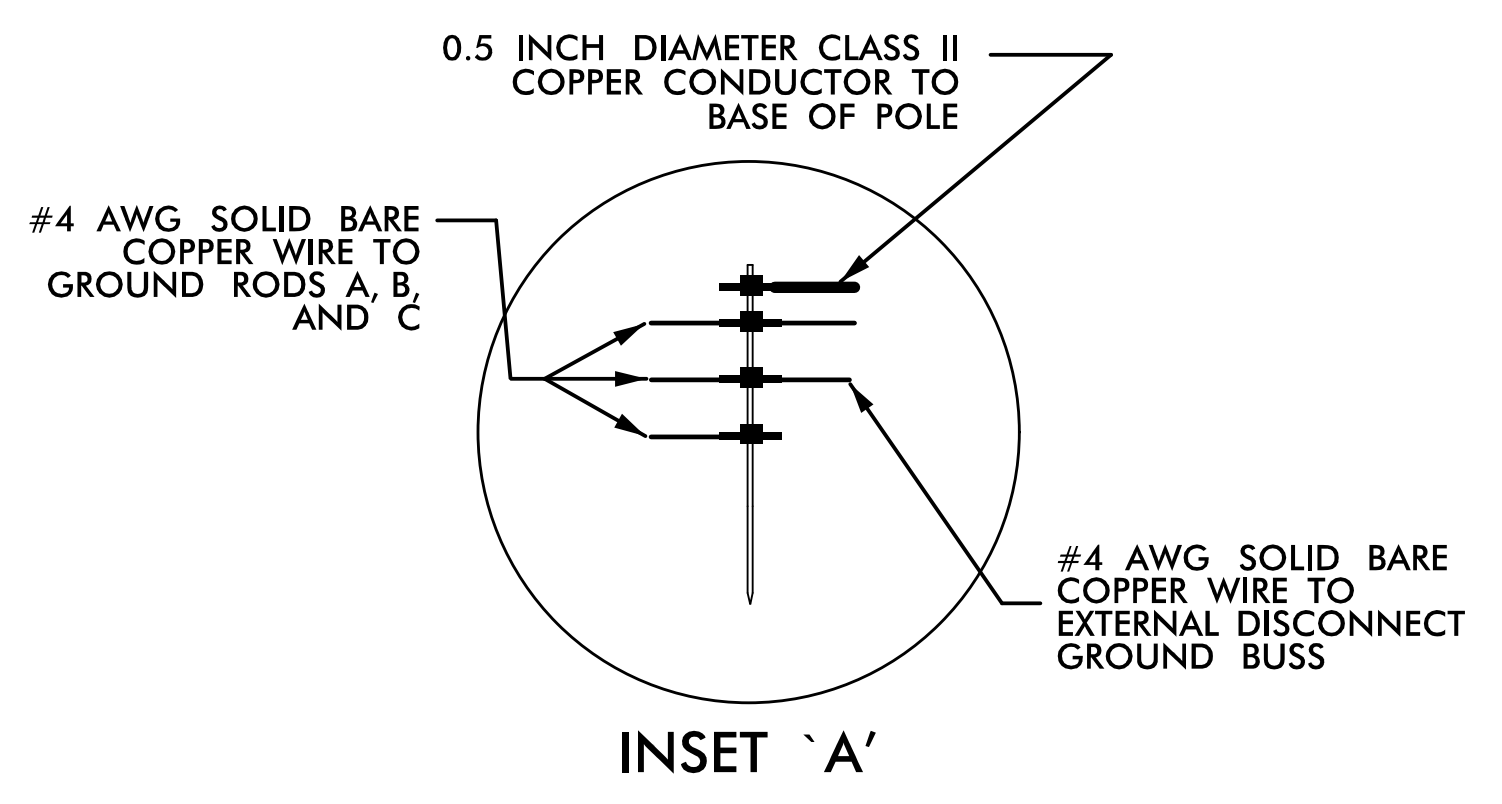
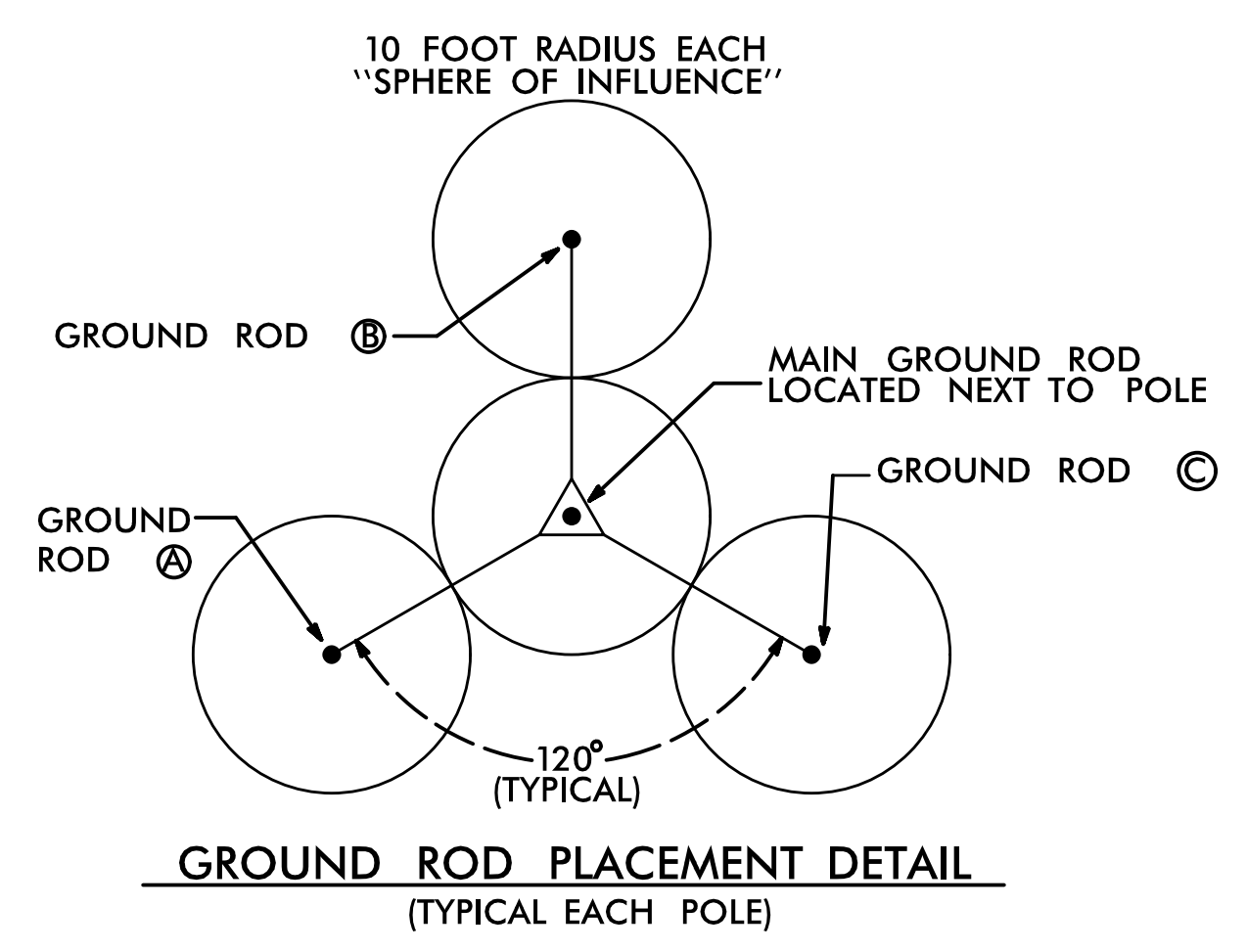


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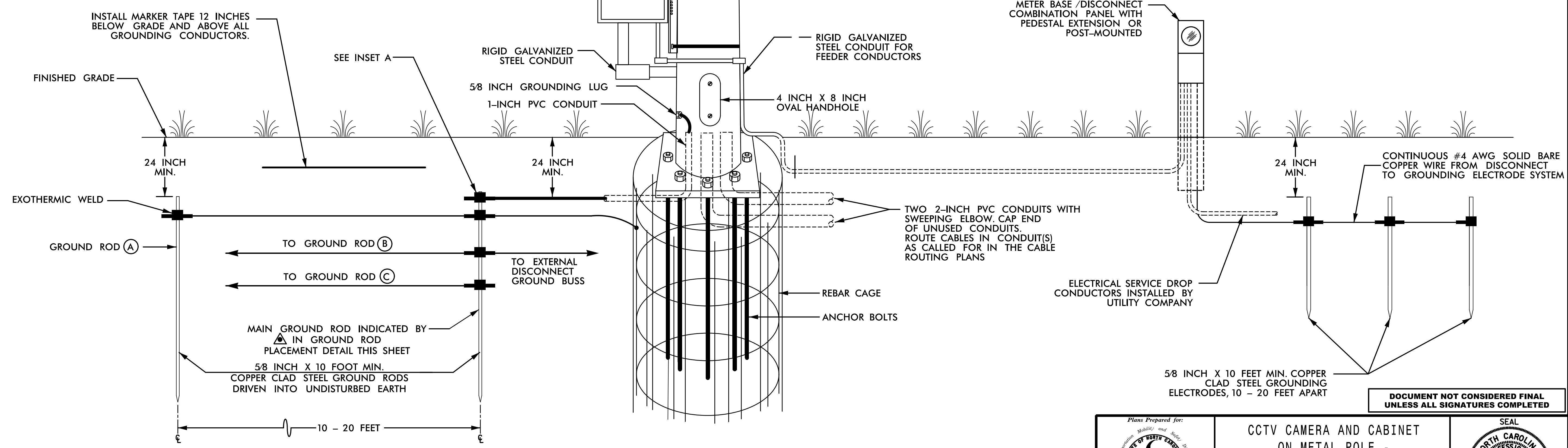
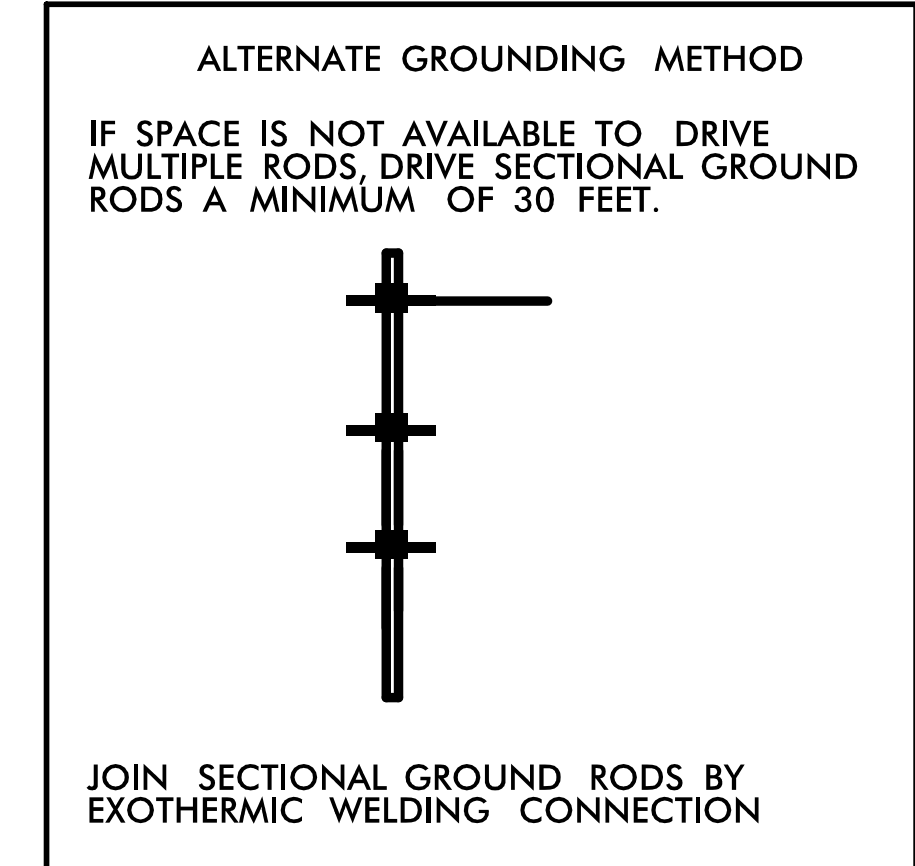
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Raleigh, North Carolina 27609
NC License No: C-1554

	CCTV CAMERA AND CABINET ON METAL POLE - TYPICAL OVERHEAD SERVICE		
	DIVISION 7 GUILFORD CO. GREENSBORO PLAN DATE: APRIL 2016 REVIEWED BY: A.D. KLINKSIEK PREPARED BY: T.R. TERRELL REVIEWED BY: H.L. WINSTEAD, JR.		
SCALE	REVISIONS	INIT.	DATE
NONE			

DocuSigned by: H.L. Winstead, Jr. 4/25/2016
ES182061472474
SIGNATURE DATE
CADD File name: U2524D ITS-05.dgn



- NOTES**
1. BOND 0.5 INCH DIAMETER, 28 STRAND (MINIMUM) CLASS II COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD.
 2. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
 3. BOND #4 AWG SOLID BARE COPPER WIRE TO REBAR CAGE AND THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD.
 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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NC License No: C-1554

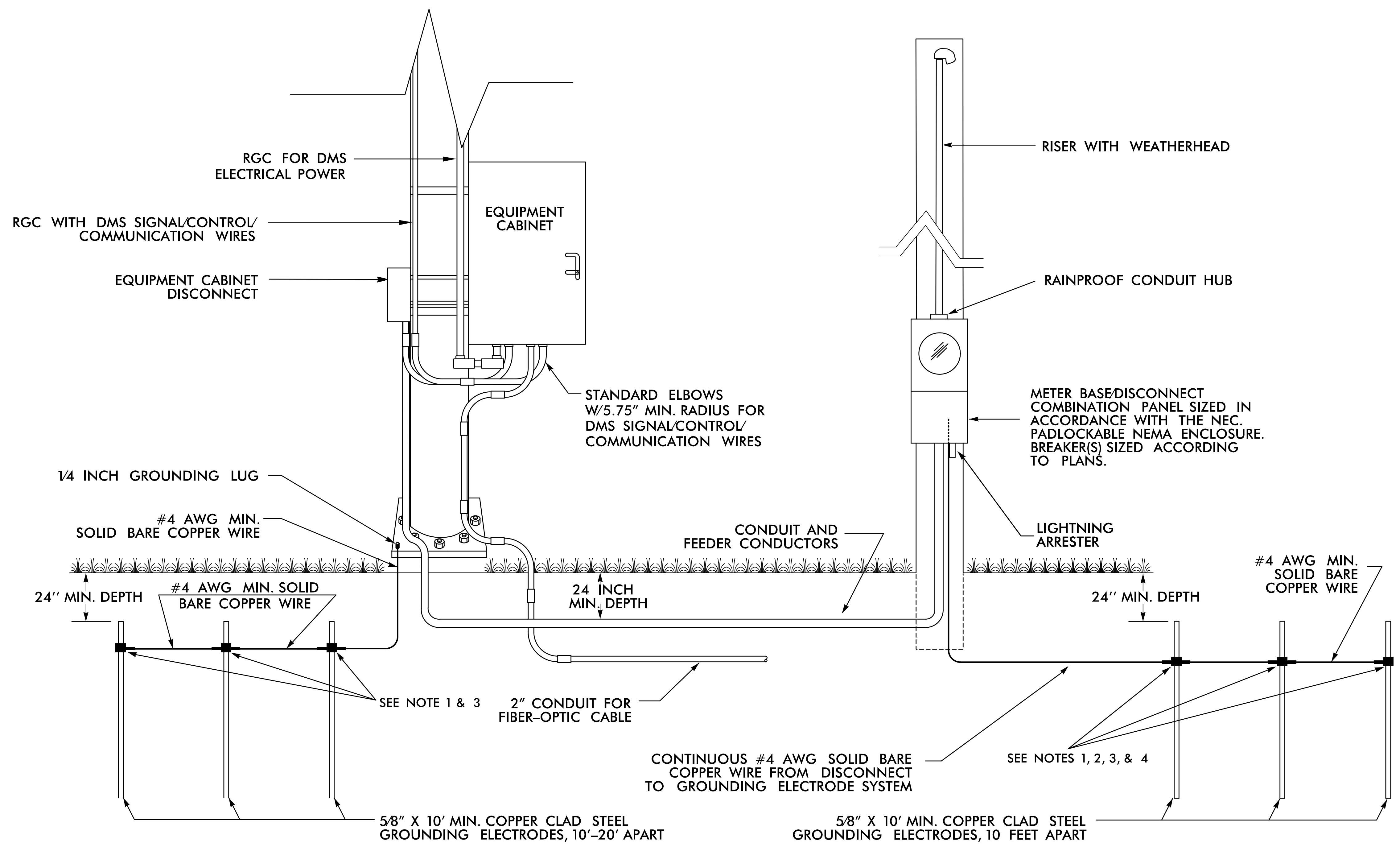
	CCTV CAMERA AND CABINET ON METAL POLE - TYPICAL UNDERGROUND SERVICE		
	DIVISION 7 PLAN DATE: APRIL 2016 PREPARED BY: T.R. TERRELL	GUILFORD CO. REVIEWED BY: A.D. KLINKSIEK REVIEWED BY: H.L. WINSTEAD	
SCALE: NONE	REVISIONS:	INIT.:	DATE:

250 N. Greenfield Place, Garner, NC 27529

DocuSigned By: H.L. Winstead, Jr. 4/25/2016

ESS182981472474

CADD File name: U2524D ITS-06.dgn



NOTES

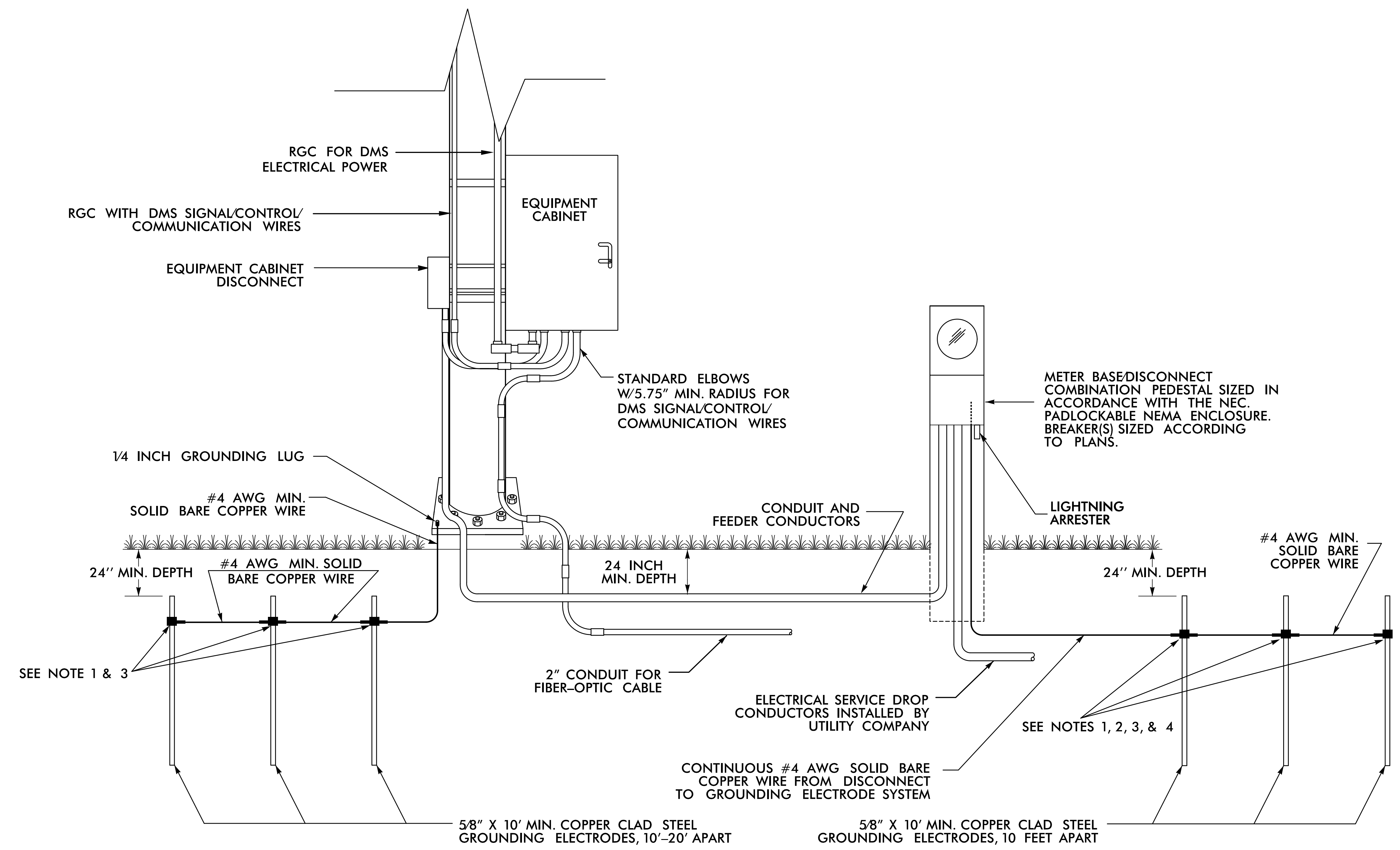
1. INSTALL A MINIMUM OF 3 GROUND RODS SPACED A MINIMUM OF 10 FEET APART. ENSURE THAT EXISTING UNDERGROUND FACILITIES ARE NOT DAMAGED DURING INSTALLATION.
2. TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SHALL MEASURE TWENTY (20) OHMS OR LESS. ADDITIONAL GROUND RODS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
3. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
5. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWEEN AC NEUTRAL AND EQUIPMENT GROUND.
6. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET TO EQUIPMENT GROUND.
7. INSTALL CONDUIT BETWEEN DISCONNECT AND CABINET.
8. ENSURE EQUIPMENT GROUND IS ELECTRICALLY BONDED TO EQUIPMENT CABINET.

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Raleigh, North Carolina 27609
NC License No: C-1554

	Plans Prepared for: DYNAMIC MESSAGE SIGN TYPICAL NEW ELECTRICAL SERVICE AND GROUNDING DETAIL	
	DIVISION 7 PLAN DATE: APRIL 2016 PREPARED BY: T.R. TERRELL	GUILFORD CO. REVIEWED BY: A.D. KLINSIEK REVIEWED BY: H.L. WINSTEAD
SCALE NONE	REVISIONS INIT. DATE	SIGNATURE DATE

250 N. Greenfield Place, Garner, NC 27529

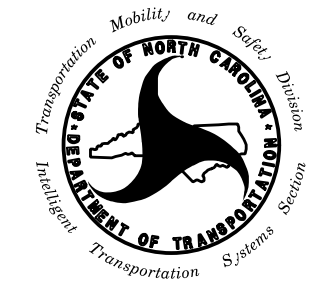



NOTES

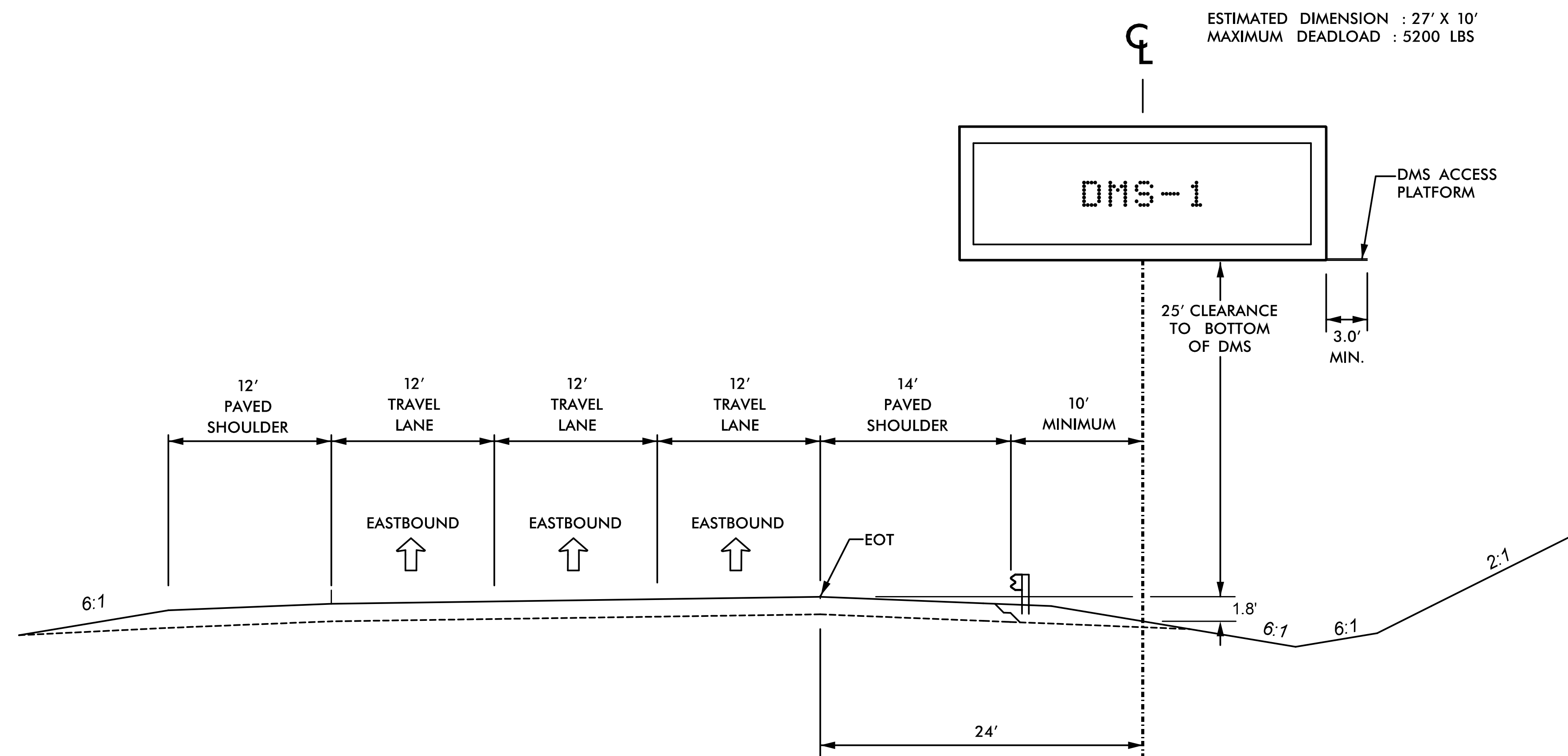
1. INSTALL A MINIMUM OF 3 GROUND RODS SPACED A MINIMUM OF 10 FEET APART. ENSURE THAT EXISTING UNDERGROUND FACILITIES ARE NOT DAMAGED DURING INSTALLATION.
2. TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SHALL MEASURE TWENTY (20) OHMS OR LESS. ADDITIONAL GROUND RODS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
3. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
5. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWEEN AC NEUTRAL AND EQUIPMENT GROUND.
6. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET TO EQUIPMENT GROUND.
7. INSTALL CONDUIT BETWEEN DISCONNECT AND CABINET.
8. ENSURE EQUIPMENT GROUND IS ELECTRICALLY BONDED TO EQUIPMENT CABINET.

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 NC License No: C-1554

Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529	DYNAMIC MESSAGE SIGN TYPICAL NEW ELECTRICAL SERVICE AND GROUNDING DETAIL		SEAL  H.L. Winstead, Jr. 4/25/2016
	DIVISION 7 GUILFORD CO. GREENSBORO	PLAN DATE: APRIL 2016 REVIEWED BY: A.D. KLINKSIEK	
SCALE NONE	REVISIONS	INIT. DATE	DATE

CADD File name: U2524D ITS-08.dgn



NOTES:

1. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ELEVATION DRAWINGS FOR ENGINEER'S APPROVAL.
2. PROVIDE A FIXED LADDER LEADING TO THE ACCESS PLATFORM.
3. EQUIP THE LADDER WITH A SECURITY COVER (LADDER GUARD) AND LOCK. START THE FIRST LADDER RUNG NO MORE THAN 18 INCHES ABOVE A CONCRETE LANDING PAD. DESIGN RUNGS ON 12 INCH CENTER-TO-CENTER TYPICAL SPACING.
4. INSTALL A LEVEL CONCRETE LANDING PAD MEASURING A MINIMUM 4 INCHES DEEP, 24 INCHES WIDE, AND 36 INCHES LONG DIRECTLY BENEATH THE LADDER.
5. USE ACTUAL DIMENSIONS AND WEIGHT OF THE DMS TO COMPLETE THE DESIGN OF THE DMS STRUCTURE.
6. ENSURE THAT THE TOP OF THE FOOTING EXTENDS AT LEAST 6 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
7. DESIGN AND CONSTRUCT THE PEDESTAL STRUCTURE AND DMS ENCLOSURE TO WITHSTAND WIND VELOCITIES OF 90 MPH.
8. VERIFY ALL UNDERGROUND UTILITY LOCATIONS BEFORE BEGINNING ANY UNDERGROUND WORK. DO NOT DAMAGE ANY EXISTING UTILITIES OR NCDOT CABLES DURING CONSTRUCTION.

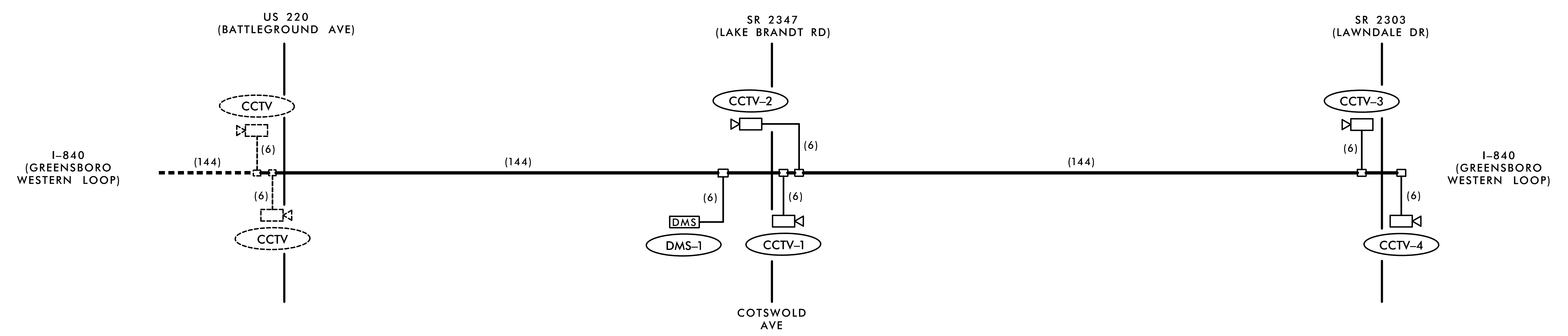
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Raleigh, North Carolina 27609
NC License No: C-1554

<p>Plans Prepared for: Department of Transportation 250 N. Greenfield Place, Garner, NC 27529</p>	<p>DMS-1 ELEVATION</p>		
	<p>DIVISION TO: GUILFORD CO., GREENSBORO</p> <p>PLAN DATE: APRIL 2016</p> <p>PREPARED BY: T.R. TERRELL</p> <p>SCALE: NONE</p>	<p>REVIEWED BY: A.D. KLINSIEK</p> <p>REVIEWED BY: H.L. WINSTEAD</p>	
<p>REVISIONS</p>		<p>INIT.</p>	<p>DATE</p>
<p>CADD File name: U2524D ITS-09.dgn</p>			

LEGEND

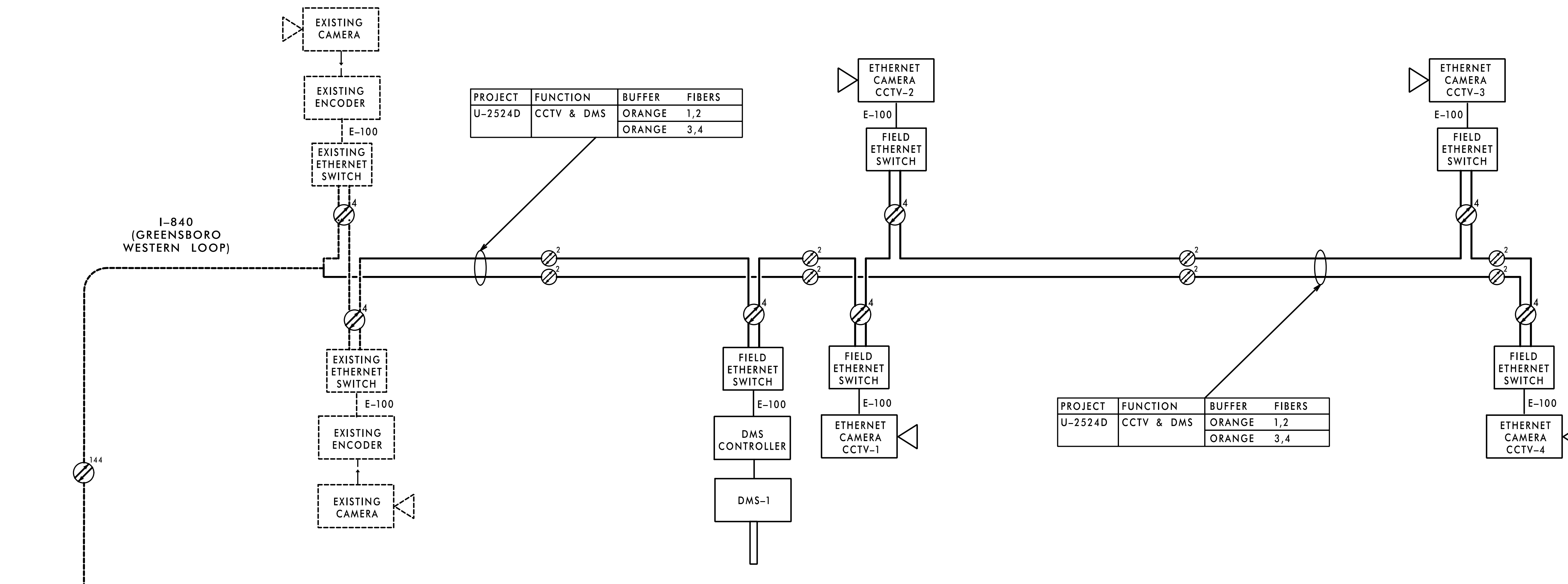
- PROPOSED DEVICE AND ID NUMBER
- EXISTING DEVICE
- XX-SINGLE MODE FIBERS
- EXISTING 144 FIBER OPTIC CABLE
- PROPOSED 144 FIBER OPTIC CABLE
- PROPOSED 6 FIBER OPTIC CABLE
- EXISTING 6 FIBER OPTIC CABLE
- PROPOSED SPLICE ENCLOSURE
- EXISTING SPLICE ENCLOSURE
- PROPOSED CCTV
- EXISTING CCTV
- PROPOSED DMS



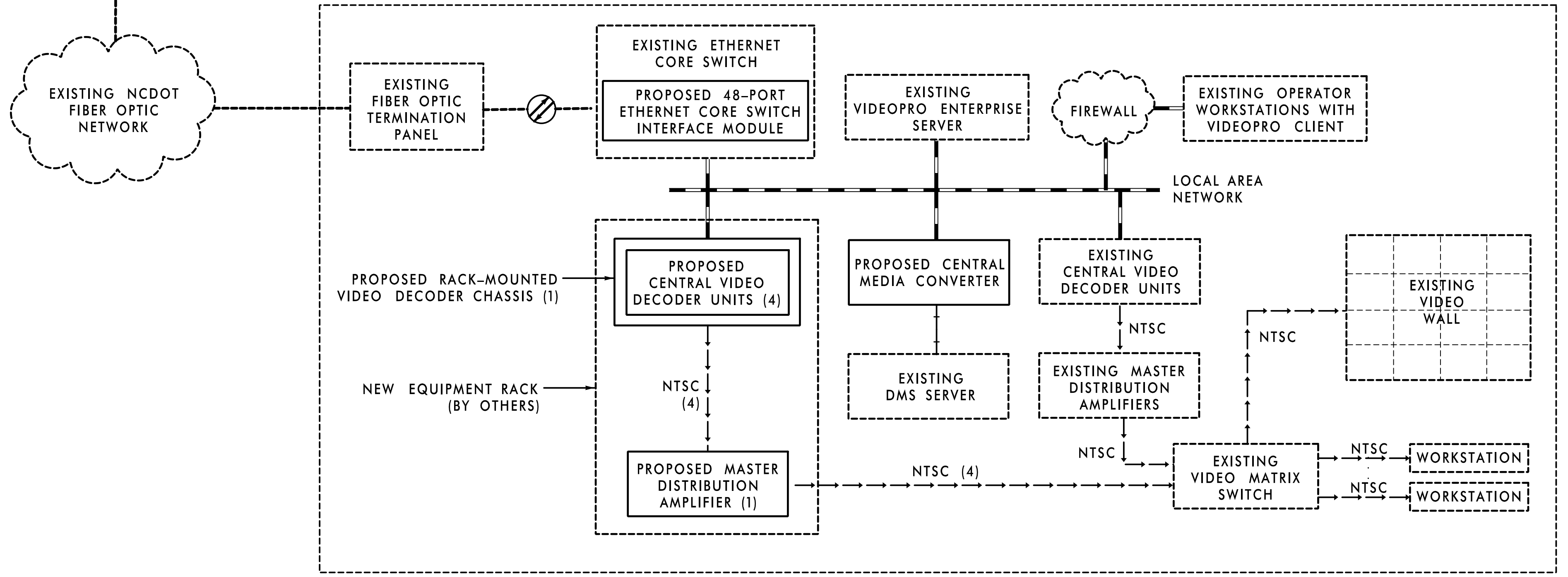
**DOCUMENT NOT CONSIDERED FINAL
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<p>Plans Prepared for: Department of Transportation Division 7</p>	SCHEMATIC DIAGRAM		
	DIVISION 7 GUILFORD CO. GREENSBORO PLAN DATE: APRIL 2016 REVIEWED BY: A.D. KLINKSIEK PREPARED BY: T.R. TERRELL REVIEWED BY: H.L. WINSTEAD	Documented by: H.L. Winstead, Jr. 4/25/2016 Signature: _____ Date: _____	
250 N. Greenfield Place, Garner, NC 27529 	SCALE NONE	REVISIONS _____ _____ _____	CADD File Name: U2524D ITS-10.dgn

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TRIAD REGIONAL TRANSPORTATION MANAGEMENT CENTER (TRTMC)



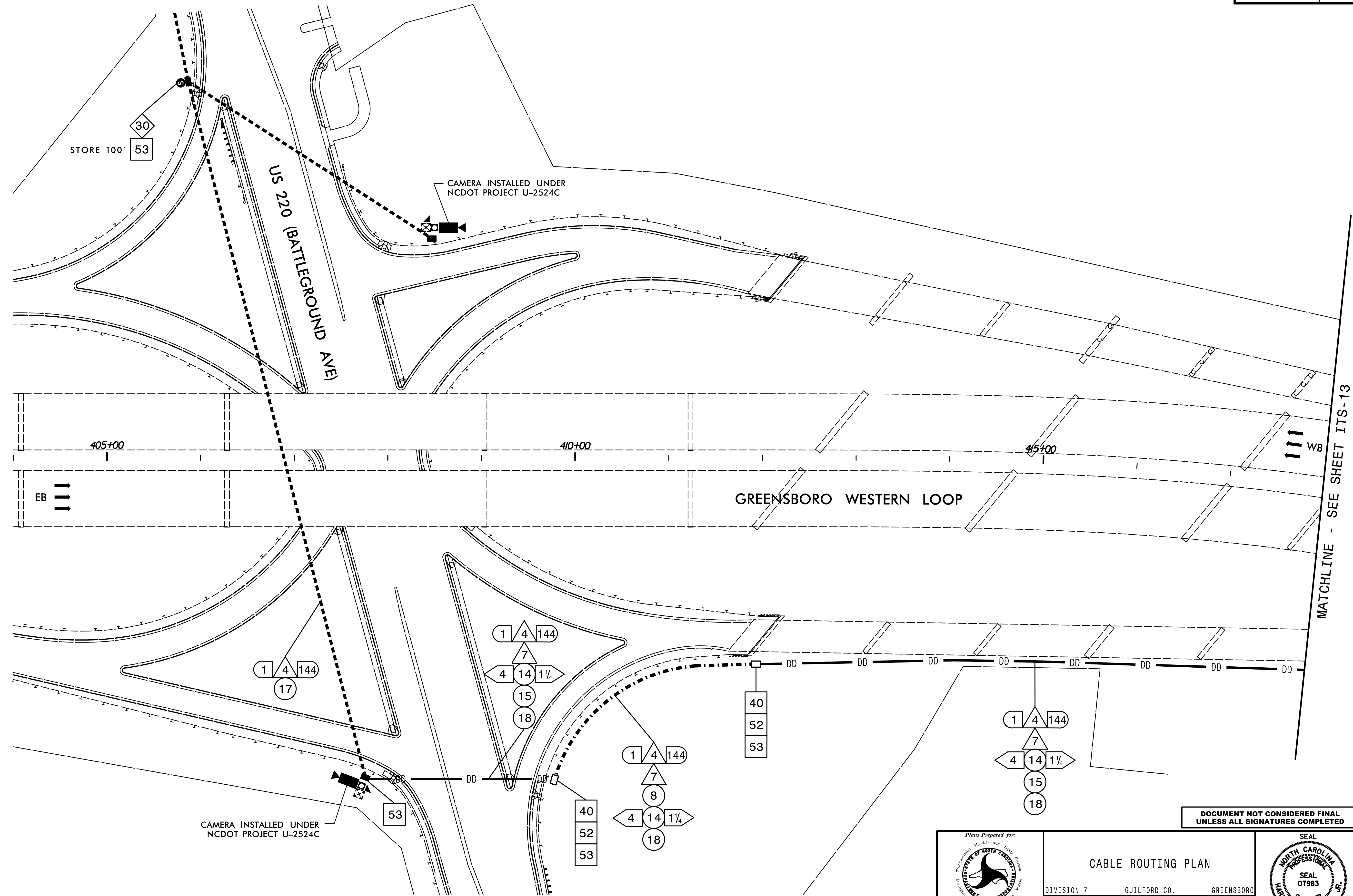
LEGEND	
	EXISTING FIBER OPTIC CABLE (1000 BASE FX ETHERNET)
	PROPOSED FIBER OPTIC CABLE (1000 BASE FX ETHERNET)
	FIBER PAIR (XMIT & RECV) X=TOTAL NUMBER OF FIBERS
	1000 BASE TX ETHERNET
	ANALOG VIDEO
	RS-232/422/485

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 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

 Plans Prepared for: Transportation Mobility and Safety Division 250 N. Greenfield Place, Garner, NC 27529	NETWORK BLOCK DIAGRAM		 H.L. Winstead, Jr. 4/25/2016
	DIVISION 7 GUILFORD CO. GREENSBORO PLAN DATE: APRIL 2016 REVIEWED BY: A.D. KLINSIEK PREPARED BY: T.R. TERRELL REVIEWED BY: H.L. WINSTEAD	SCALE: NONE REVISIONS: _____ INITI.: _____ DATE: _____ SIGNATURE: _____ DATE: _____	

CADD File Name: U2524D ITS-11.dgn

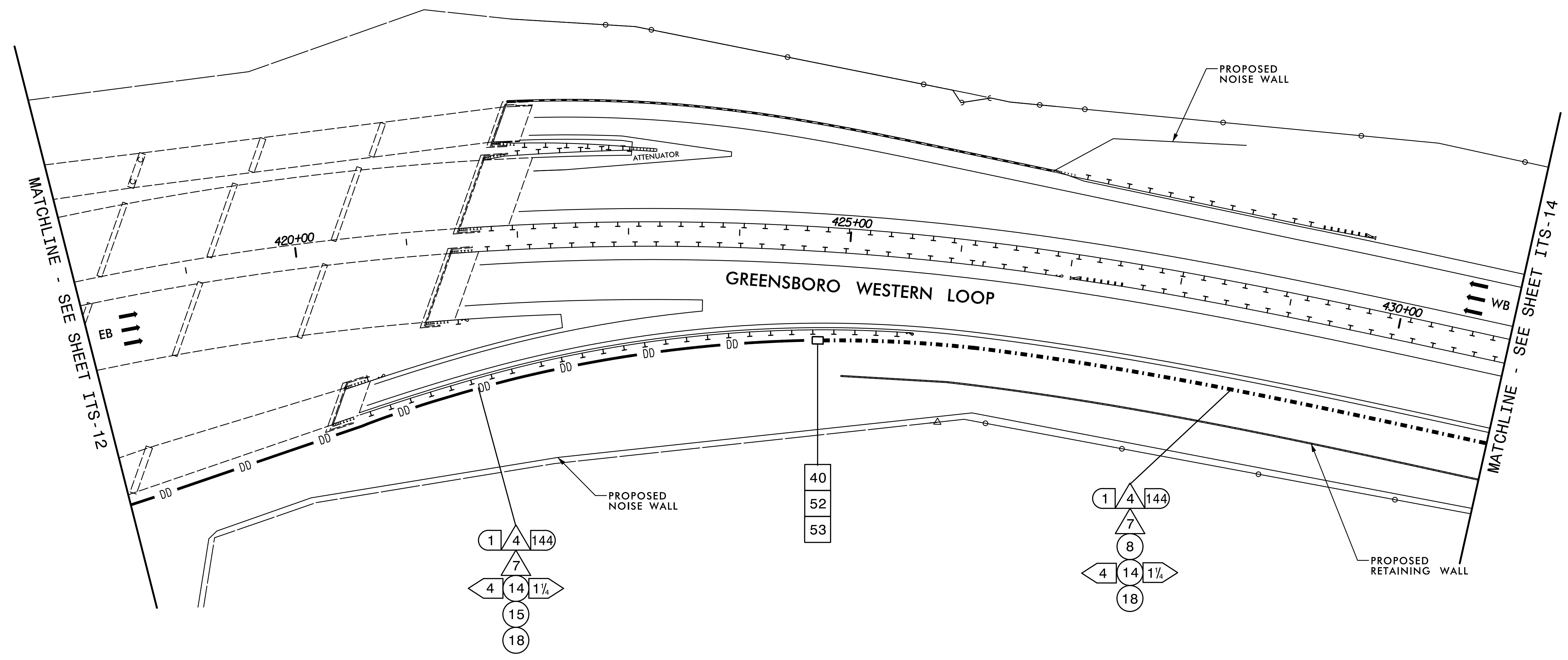


NOTE:
 1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.

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 Raleigh, North Carolina 27609
 NC License No: C-1554

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 <small>Plans Prepared for: Transportation, Mobility and Safety Division DEPARTMENT OF TRANSPORTATION STATE OF NORTH CAROLINA</small>	CABLE ROUTING PLAN		 <small>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 07983 H.L. WINSTEAD, JR.</small>									
	DIVISION 7 GUILFORD CO. GREENSBORO PLAN DATE: APRIL 2016 REVIEWED BY: A.D. KLINSIEK PREPARED BY: T.R. TERRELL REVIEWED BY: H.L. WINSTEAD											
250 N. Greenfield Place, Garner, NC 27529 	SCALE 0 50 1" = 50'	<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <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						
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		Documented by: H.L. Winstead, Jr. 4/25/2016 Signature: _____ Date: _____ CADD File Name: U2524D ITS-12.dgn										

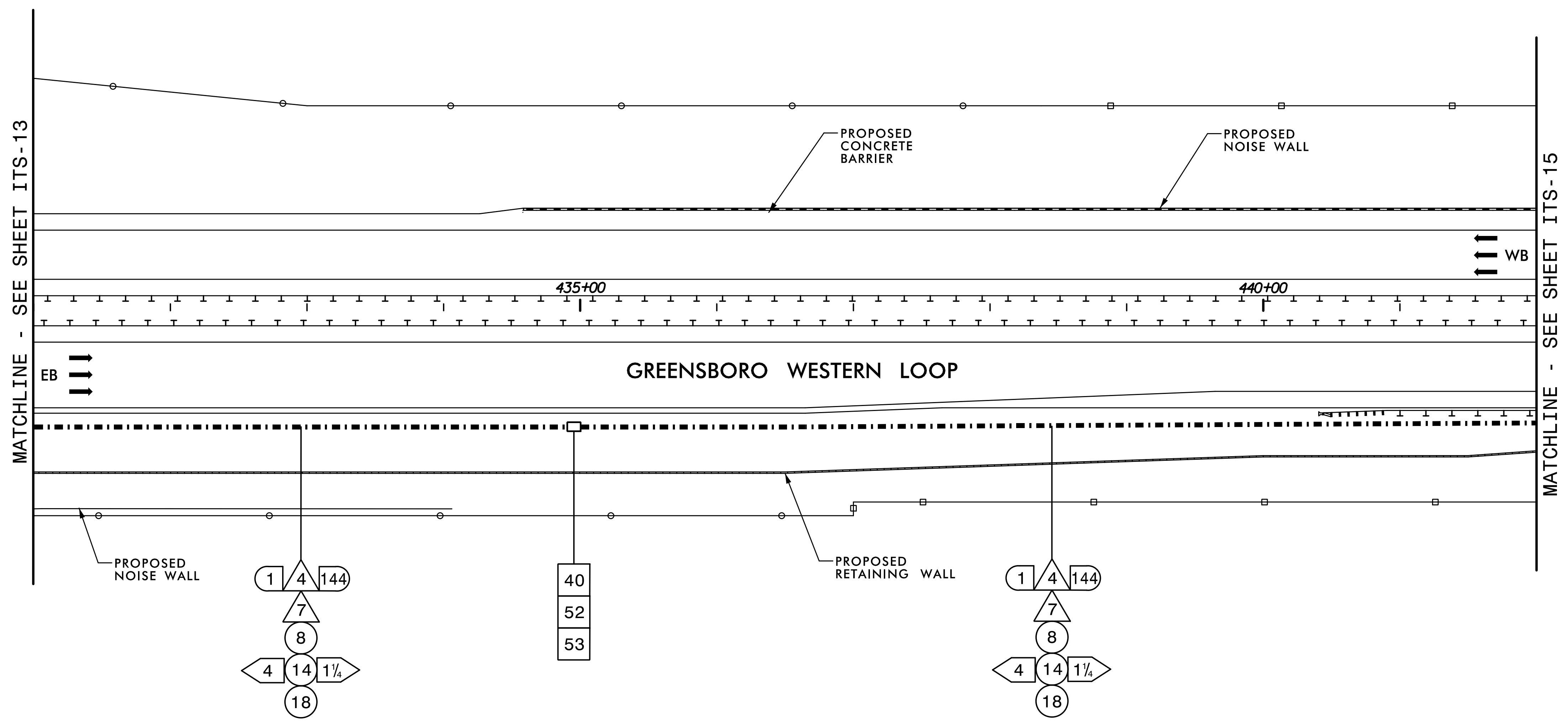


NOTE:
 1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.

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 Plans Prepared for: Transportation Mobility and Safety Division 750 N. Greenfield Place, Garner, NC 27529	CABLE ROUTING PLAN		 H.L. Winstead, Jr. 4/25/2016								
	DIVISION 7 GUILFORD CO. GREENSBORO PLAN DATE: APRIL 2016 REVIEWED BY: A.D. KLINKSIEK PREPARED BY: T.R. TERRELL REVIEWED BY: H.L. WINSTEAD	<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> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS	INIT.	DATE					
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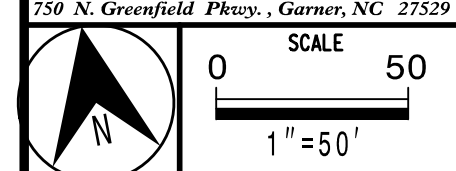


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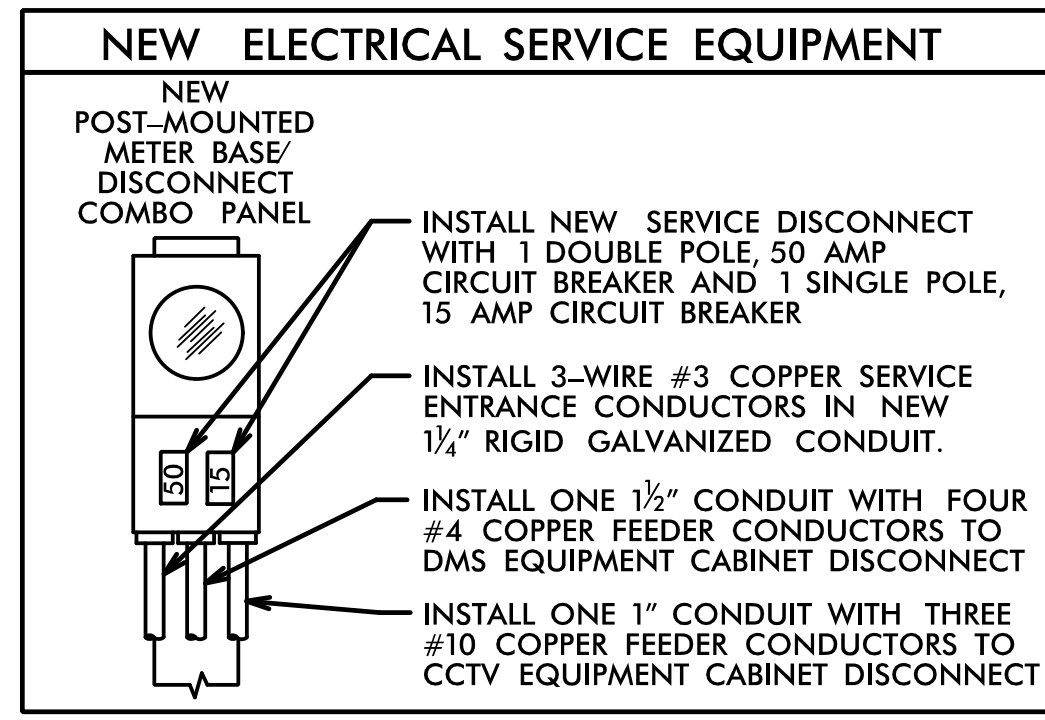
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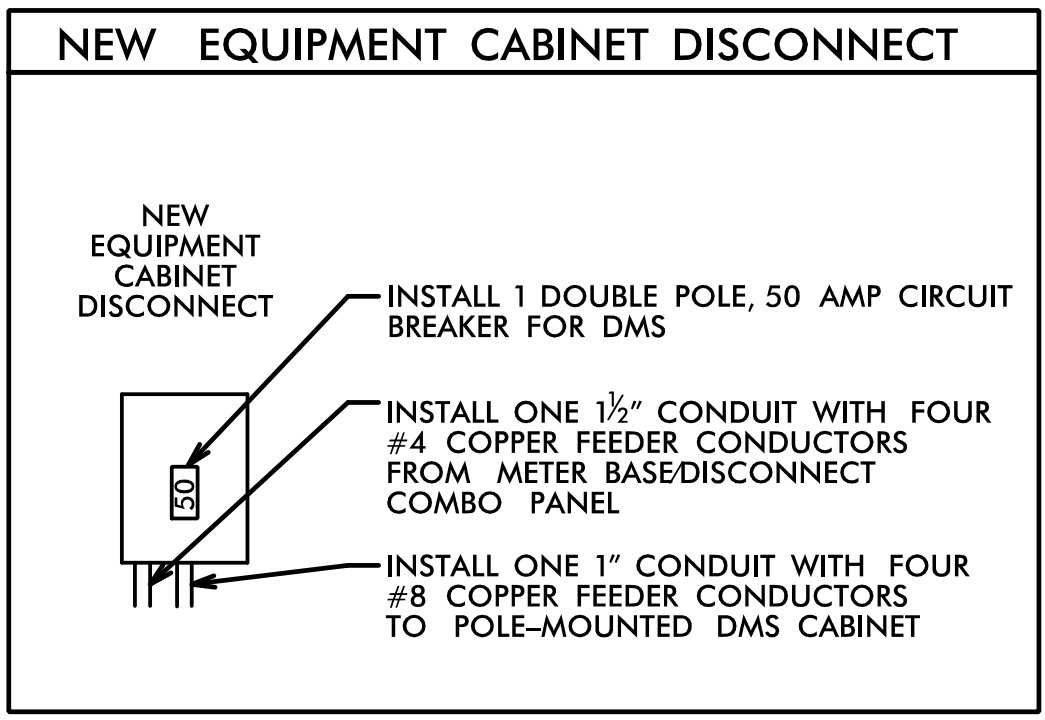
	CABLE ROUTING PLAN		
	DIVISION 7 GUILFORD CO. GREENSBORO	PLAN DATE: APRIL 2016 REVIEWED BY: A.D. KLINSIEK	
PREPARED BY: T.R. TERRELL	REVIEWED BY: H.L. WINSTEAD		DocuSigned by: H.L. Winstead, Jr. 4/25/2016
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CADD File Name: U2524D ITS-14.dgn			



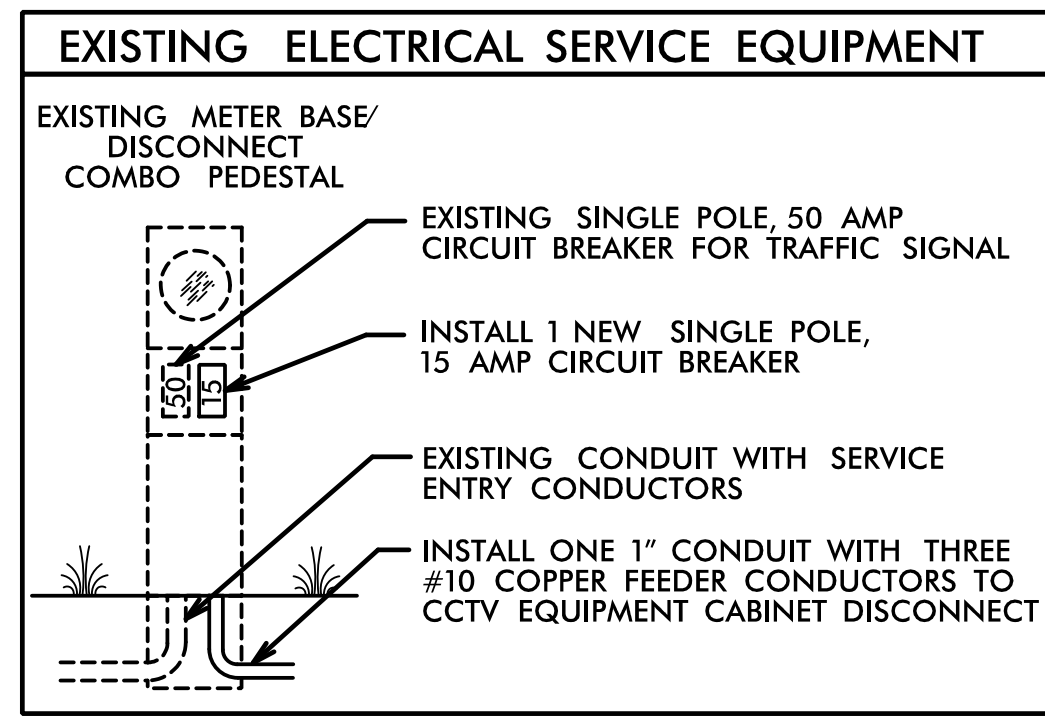
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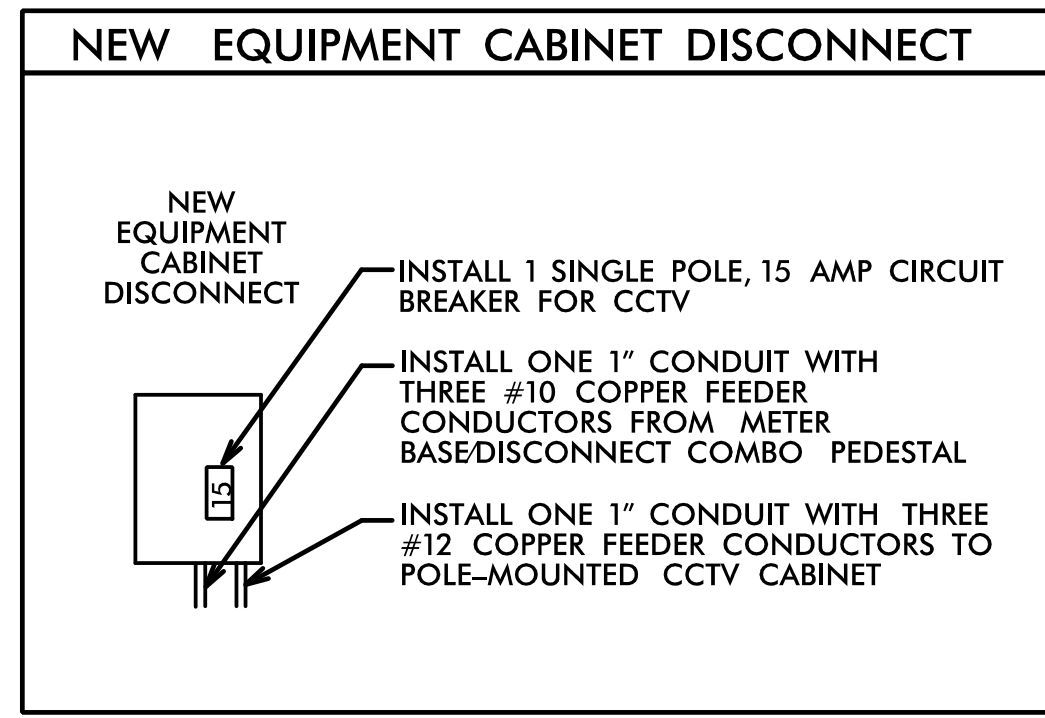
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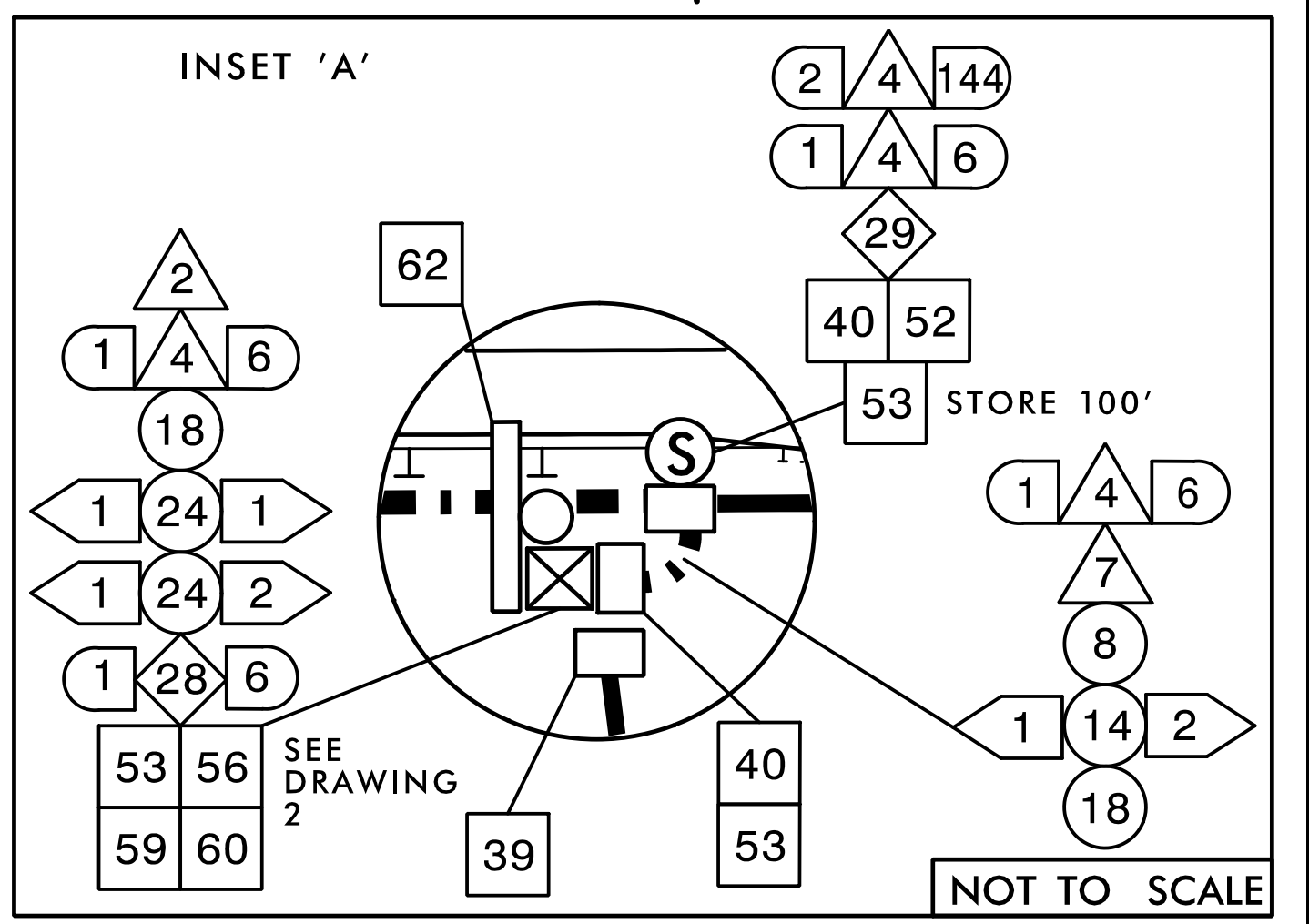
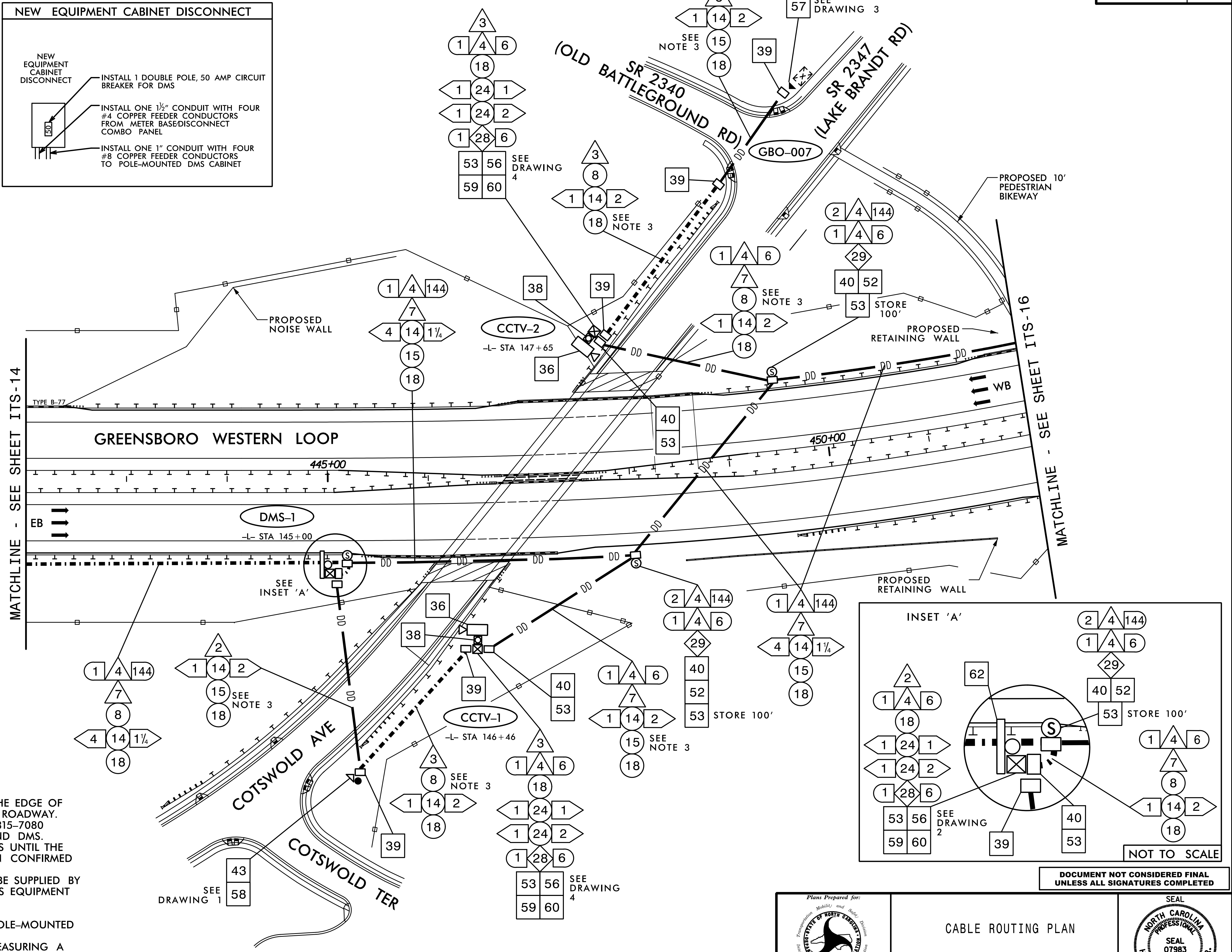


DRAWING 4



NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. CONTACT THE REGIONAL ITS ENGINEER AT (336) 315-7080 TO CONFIRM THE LOCATION OF THE CCTVS AND DMS.
3. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATIONS OF THE CCTVS AND DMS HAVE BEEN CONFIRMED BY THE REGIONAL ITS ENGINEER.
4. SECONDARY (CELLULAR) COMMUNICATIONS WILL BE SUPPLIED BY THE DEPARTMENT AND INSTALLED INTO THE DMS EQUIPMENT CABINET BY OTHERS.
5. MOUNT THE CCTVS CAMERA 45' ABOVE GRADE.
6. INSTALL A NEW DMS, WALKWAY, LADDER, AND POLE-MOUNTED CABINET ON THE NEW DMS STRUCTURE.
7. INSTALL A LEVEL CONCRETE TECHNICIAN PAD MEASURING A MINIMUM OF 4 INCHES THICK, 24 INCHES WIDE AND 36 INCHES LONG AT THE FRONT DOORS OF BOTH THE CCTV AND DMS EQUIPMENT CABINETS. SEE TYPICAL DETAILS SHEET.
8. CONTACT GARY VONCANNON (DUKE ENERGY) AT (336) 632-3848 TO OBTAIN POWER TO ELECTRICAL SERVICE.



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Plans Prepared for:

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CABLE ROUTING PLAN

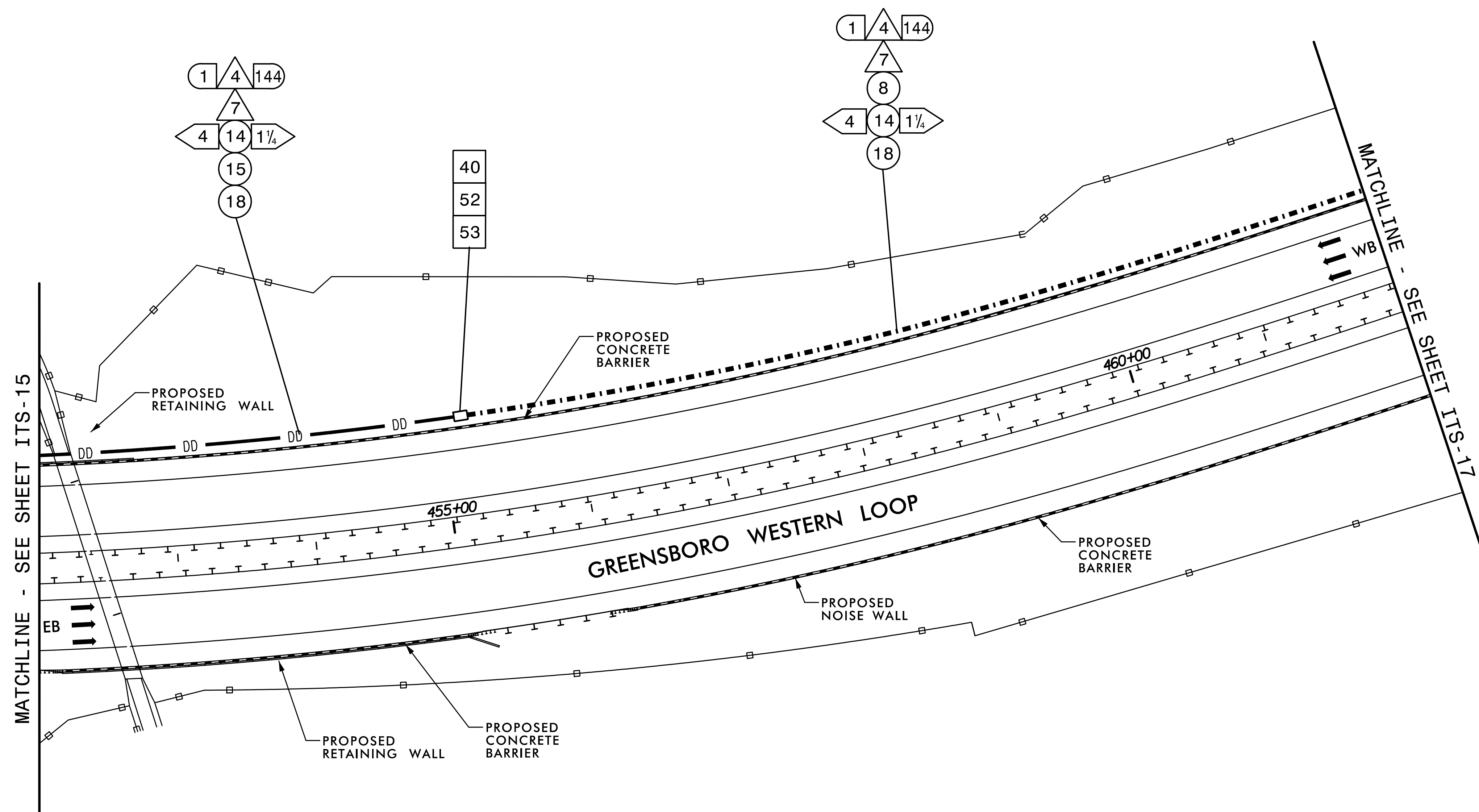
DIVISION 7 GUILFORD CO. GREENSBORO
 PLAN DATE: APRIL 2016 REVIEWED BY: A.D. KLINSIEK
 PREPARED BY: T.R. TERRELL REVIEWED BY: H.L. WINSTEAD

REVISIONS: INITI. DATE

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 07983
 H.L. WINSTEAD, JR.
 DATE: 4/25/2016

Scale: 1" = 50'

CADD File Name: U25240_ITS-15.dgn

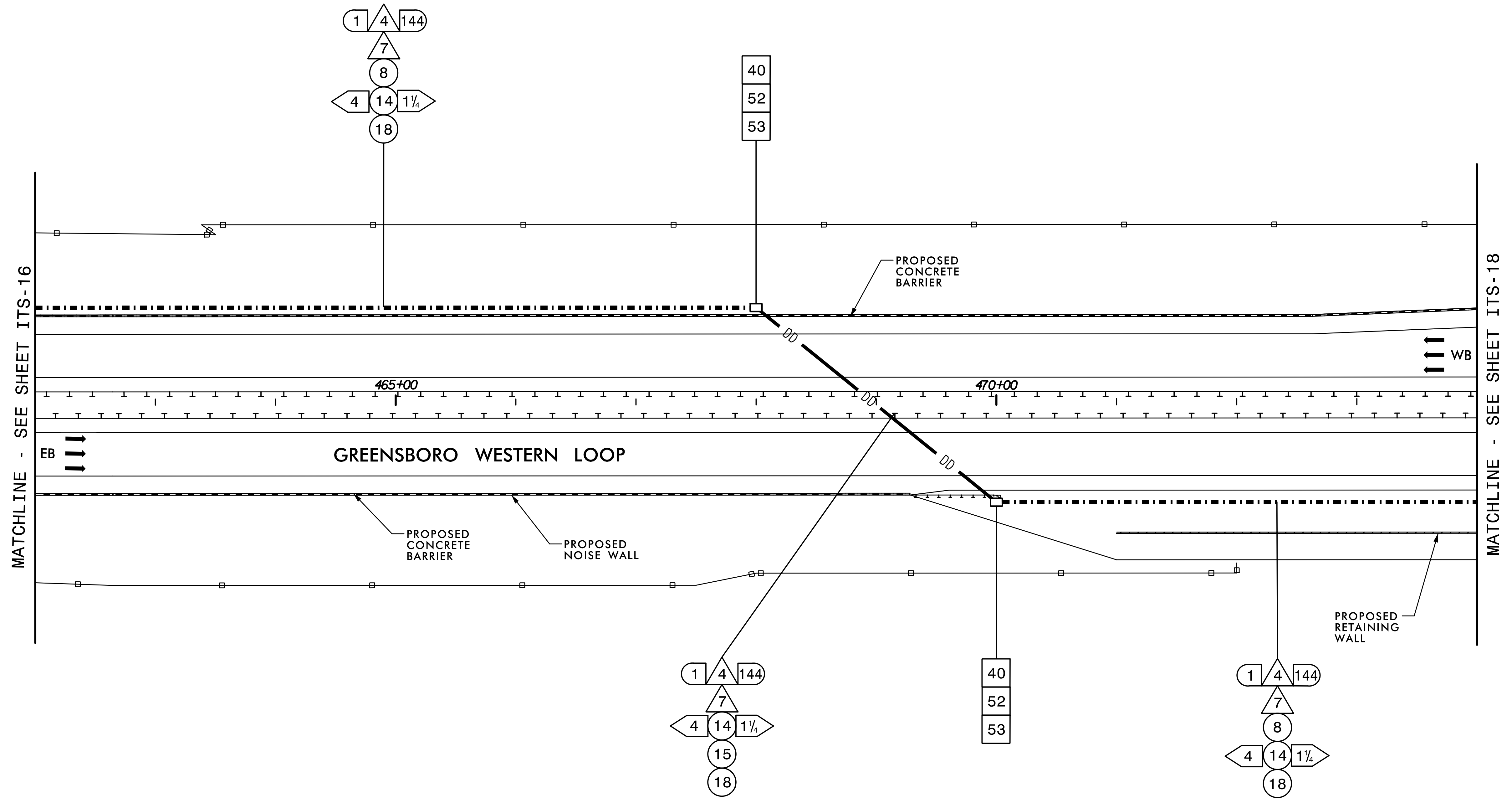


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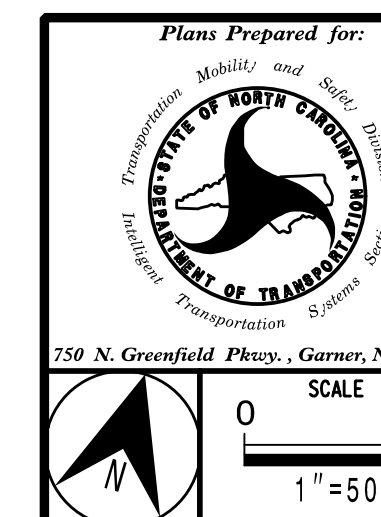
 Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529	CABLE ROUTING PLAN		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER H.L. WINSTEAD, JR. 4/25/2016								
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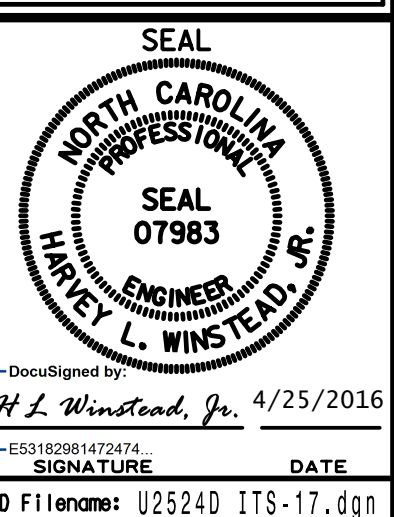
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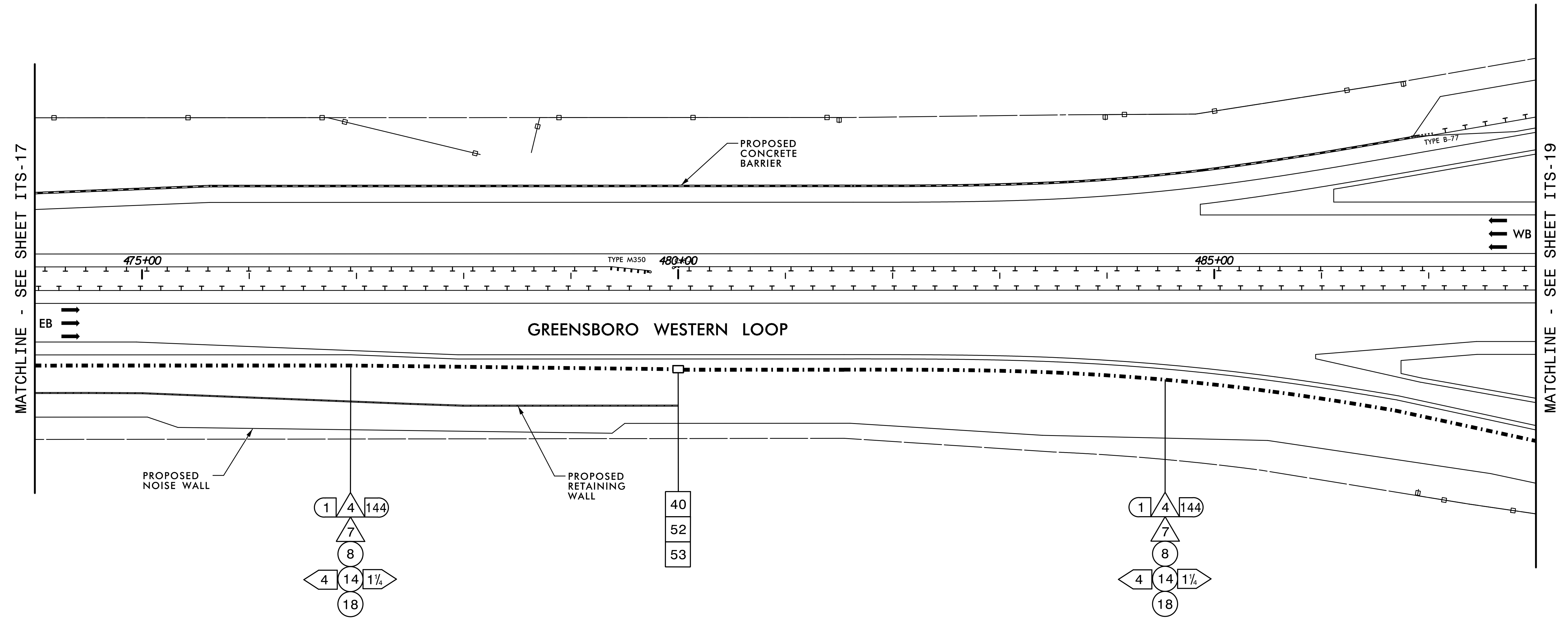
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CABLE ROUTING PLAN	
DIVISION 7	GUILFORD CO. GREENSBORO
PLAN DATE: APRIL 2016	REVIEWED BY: A.D. KLINSIEK
PREPARED BY: T.R. TERRELL	REVIEWED BY: H.L. WINSTEAD
REVISIONS	INIT. DATE



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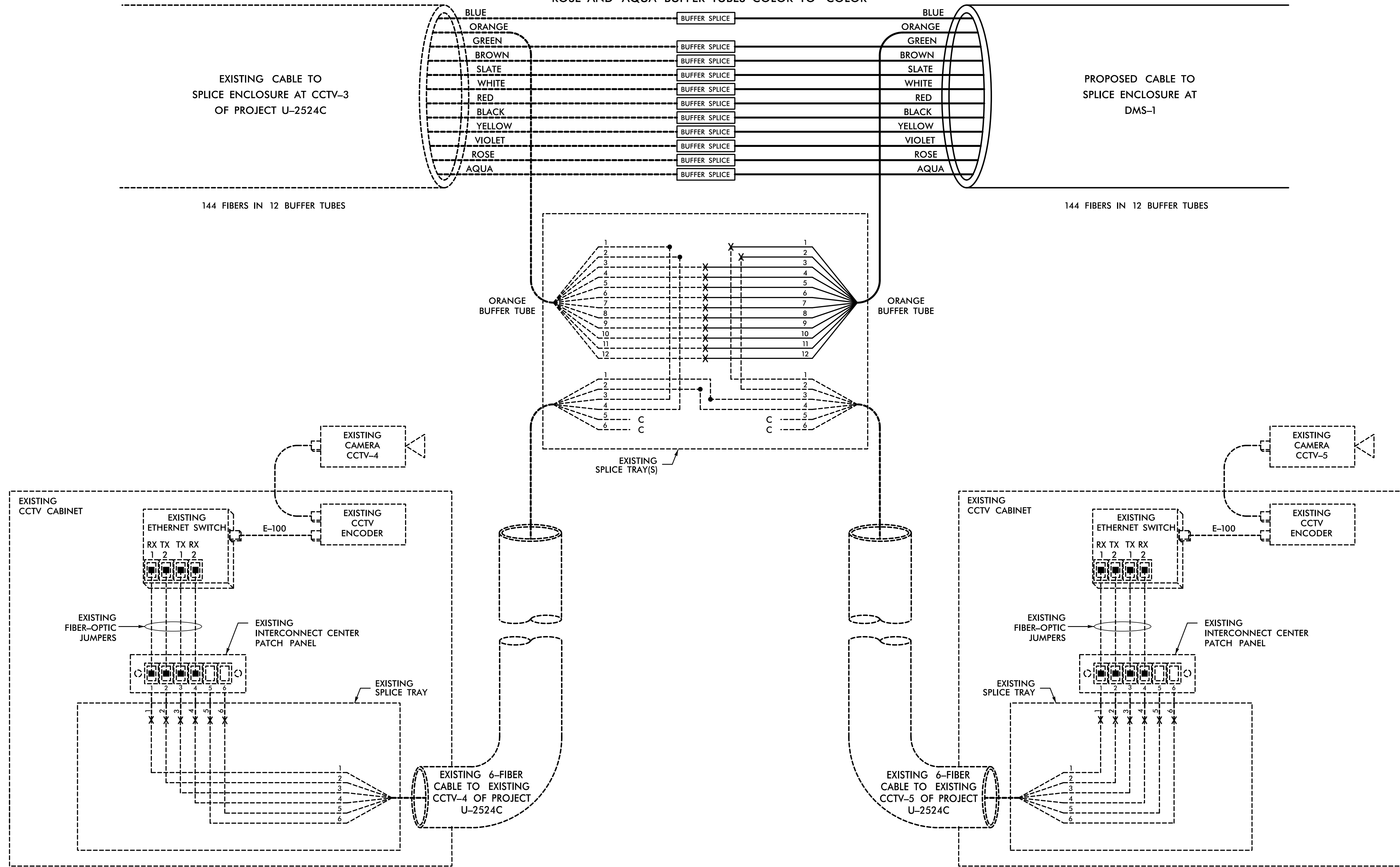
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<p>Plans Prepared for: Transportation Mobility and Safety Division STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529</p>	CABLE ROUTING PLAN										
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 H.L. Winstead, Jr. 4/25/2016
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FUSION SPlice ALL FIBERS IN BLUE, GREEN, BROWN SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE AND AQUA BUFFER TUBES COLOR TO COLOR



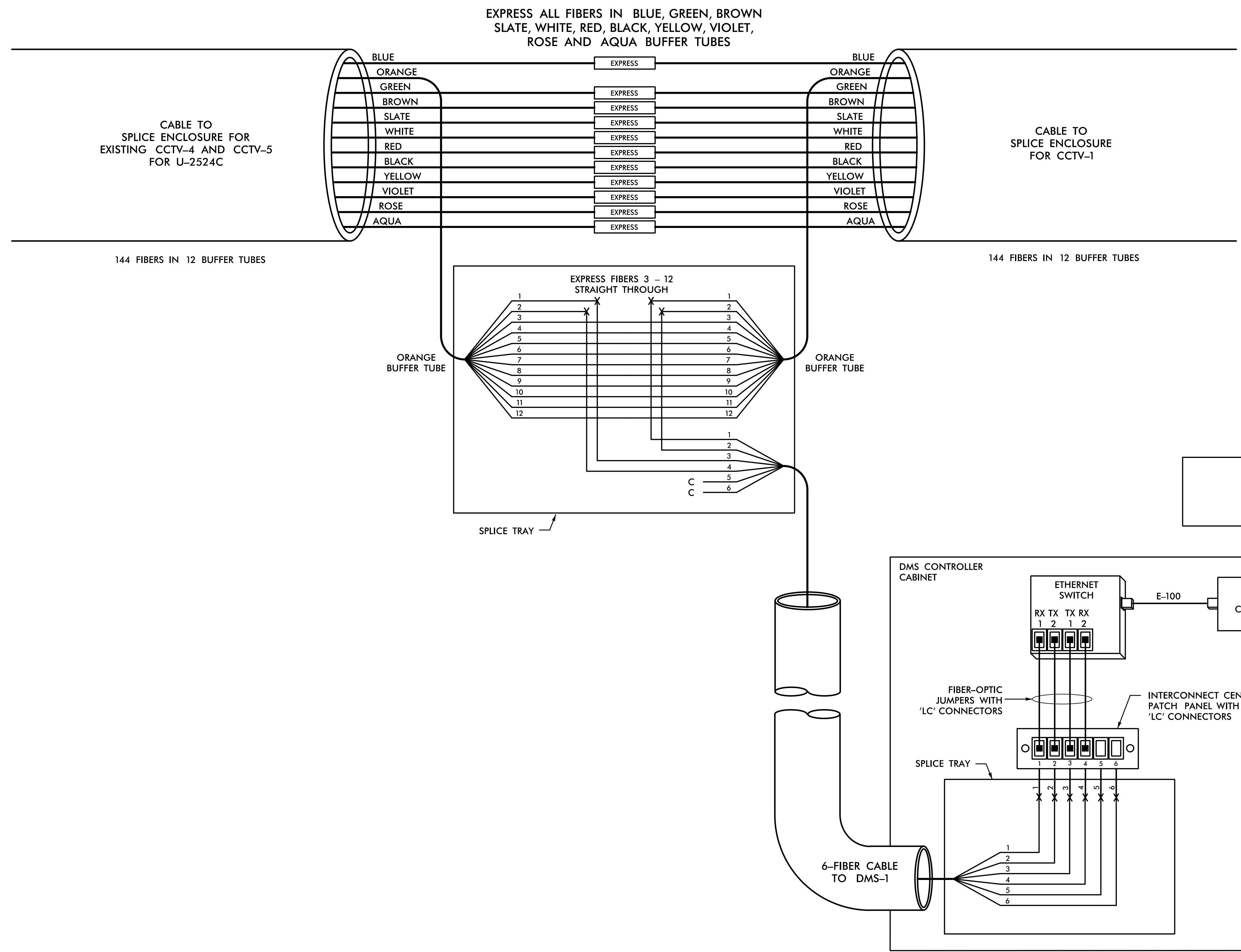
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COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPlice INDIVIDUAL FIBER	
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NOTES
1. UNUSED FIBERS LEFT COILED AND STORED IN SPlice TRAY.
2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPlice ENCLOSURE.
3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING PROPER TERMINATION.

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<p>Plans Prepared for:</p> <p>250 N. Greenfield Place, Garner, NC 27529</p>	<p>FIBER-OPTIC SPlice DETAIL</p>		<p>SEAL</p>								
	<p>DIVISION 7 GUILFORD CO. GREENSBORO</p> <p>PLAN DATE: APRIL 2016 REVIEWED BY: A.D. KLINSIEK</p> <p>PREPARED BY: T.R. TERRELL REVIEWED BY: H.L. WINSTEAD</p>	<p>SCALE: NONE</p>									
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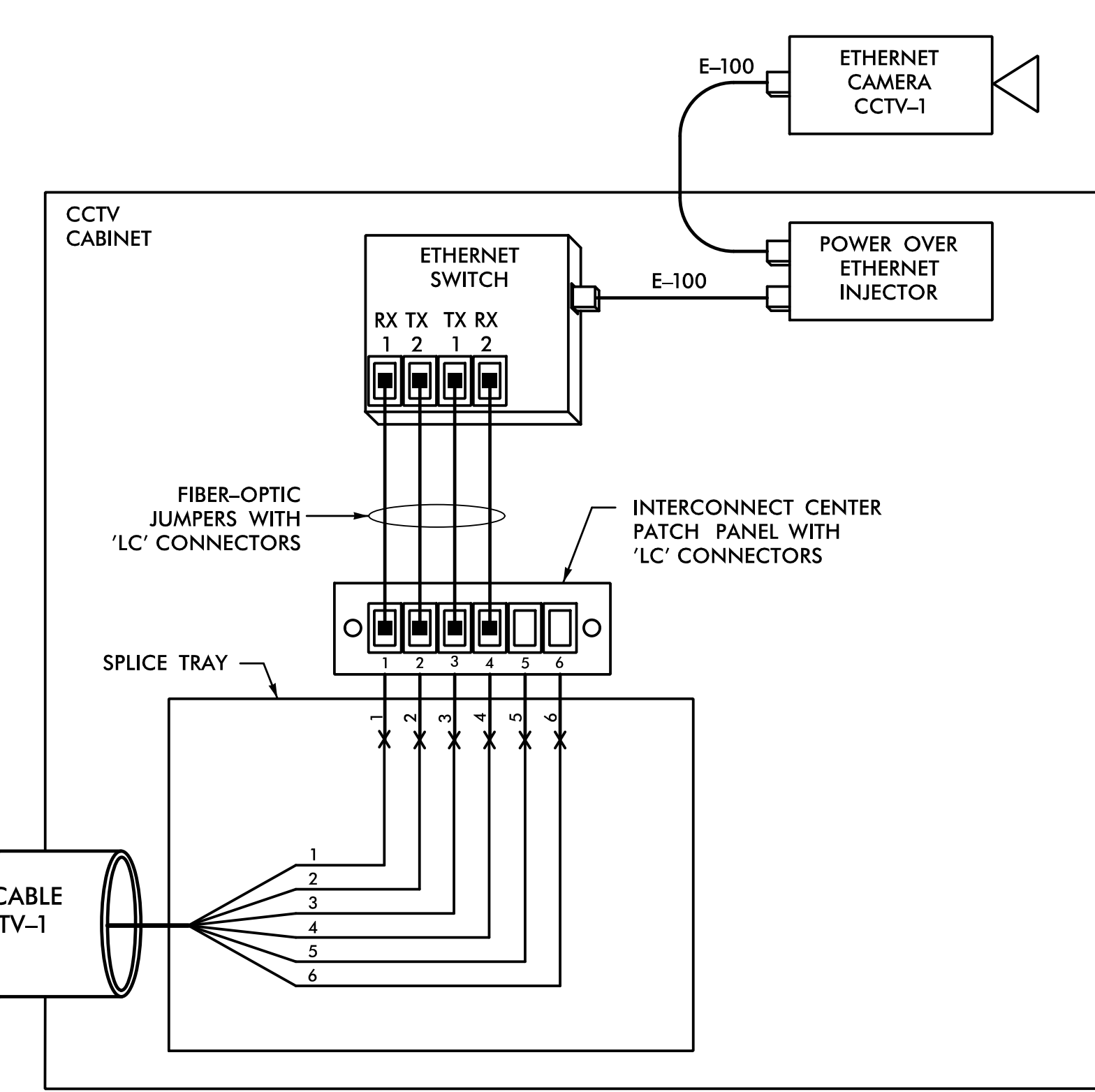
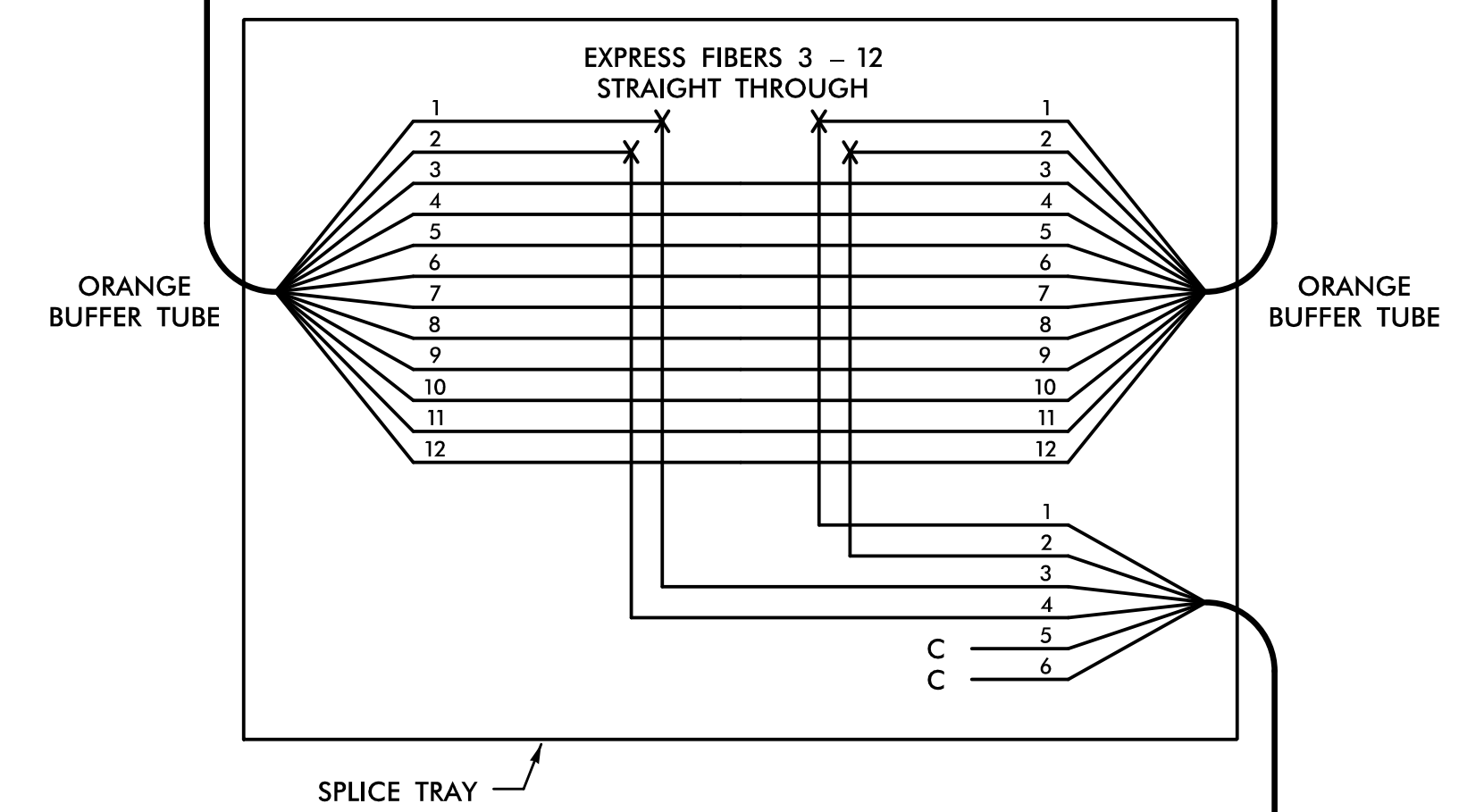
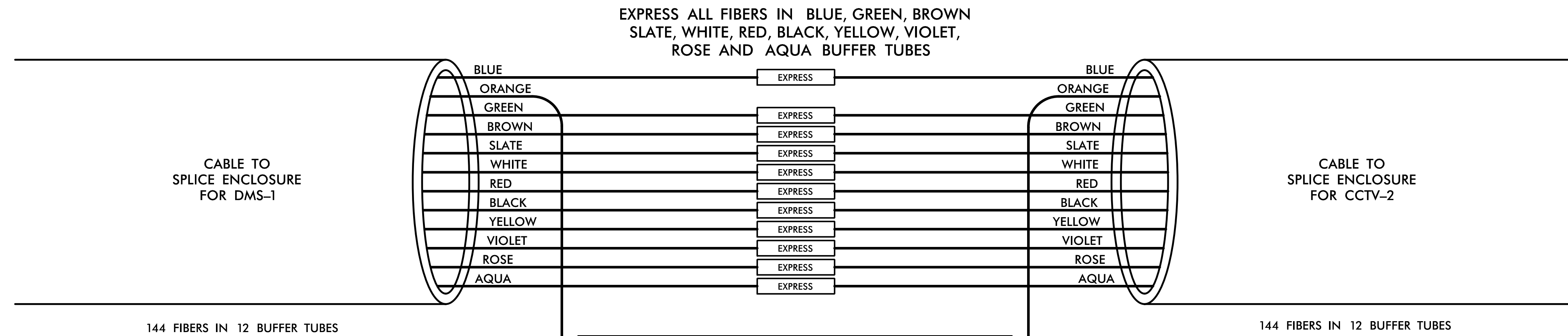
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<p>Plans Prepared for:</p> <p>250 N. Greenfield Place, Garner, NC 27526</p>	<p>DMS-1 FIBER-OPTIC SPLICE DETAIL</p>		<p>SEAL</p>
	<p>SCALE: NONE</p>	<p>PREPARED BY: T.R. TERRELL</p>	
<p>DATE: APRIL 2016</p>		<p>DATE: 4/25/2016</p>	
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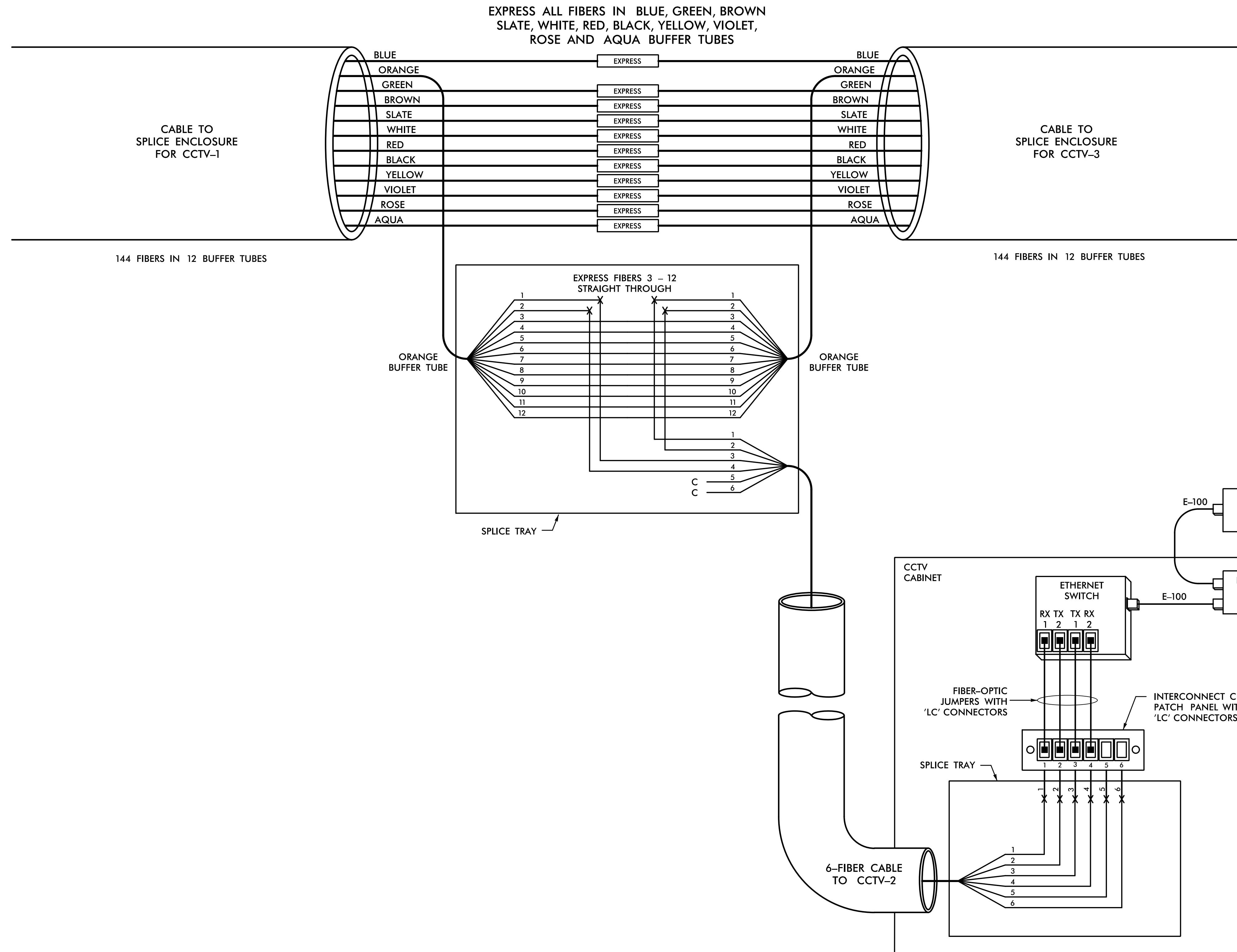
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<p>Plans Prepared for:</p> <p>250 N. Greenfield Place, Garner, NC 27529</p>	<p>CCTV-1 FIBER-OPTIC SPLICE DETAIL</p>		
	<p>SCALE NONE</p>	<p>DIVISION 7 GUILFORD CO. GREENSBORO</p> <p>PLAN DATE: APRIL 2016 REVIEWED BY: A.D. KLINSIEK</p> <p>PREPARED BY: T.R. TERRELL REVIEWED BY: H.L. WINSTEAD</p>	



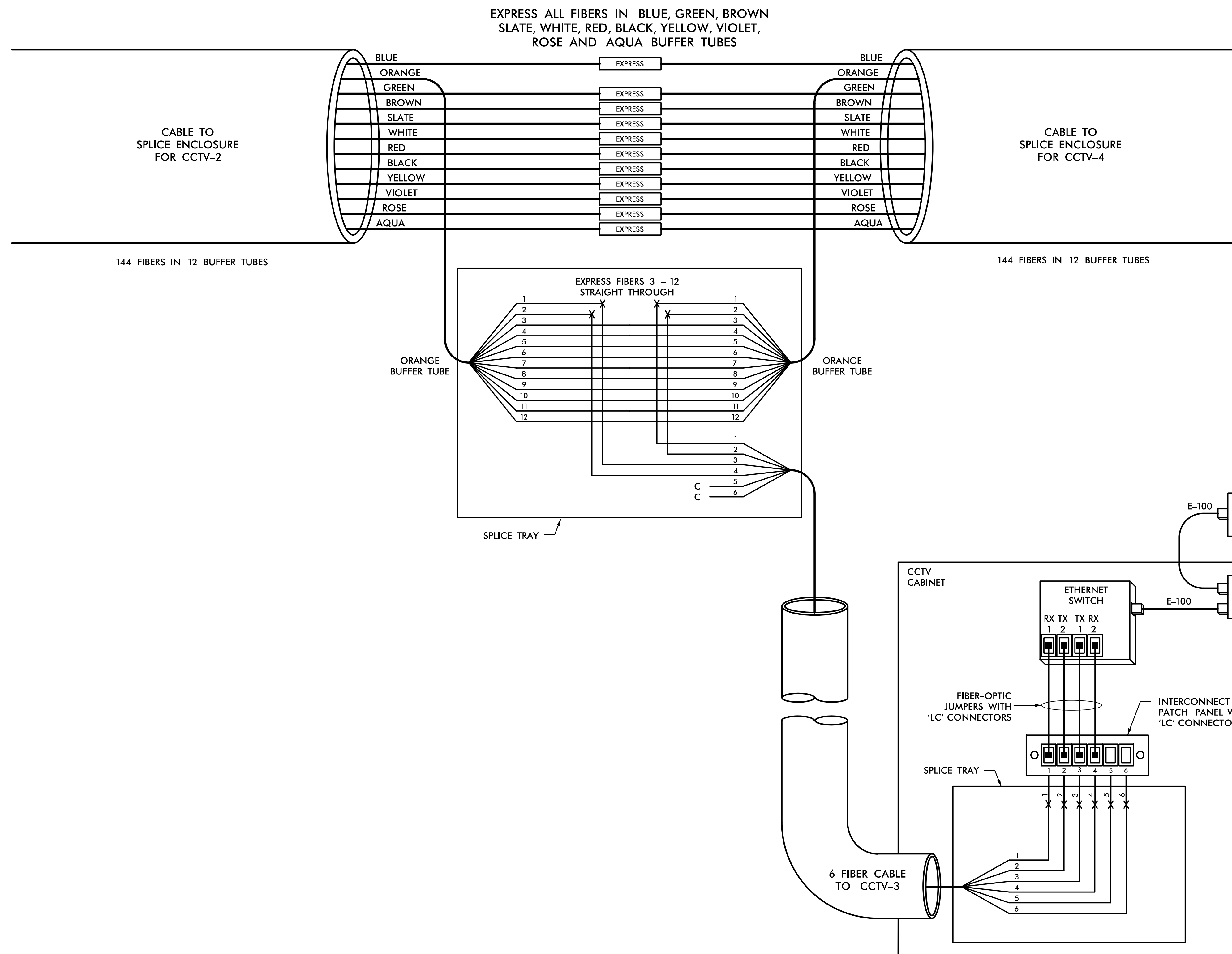
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<p>Plans Prepared for:</p> <p>250 N. Greenfield Place, Garner, NC 27529</p>	<p>CCTV-2 FIBER-OPTIC SPlice DETAIL</p>		<p>SEAL</p>
	<p>DIVISION 7</p> <p>PLAN DATE: APRIL 2016</p> <p>PREPARED BY: T.R. TERRELL</p>	<p>GUILFORD CO.</p> <p>REVIEWED BY: A.D. KLINSIEK</p> <p>REVIEWED BY: H.L. WINSTEAD</p>	



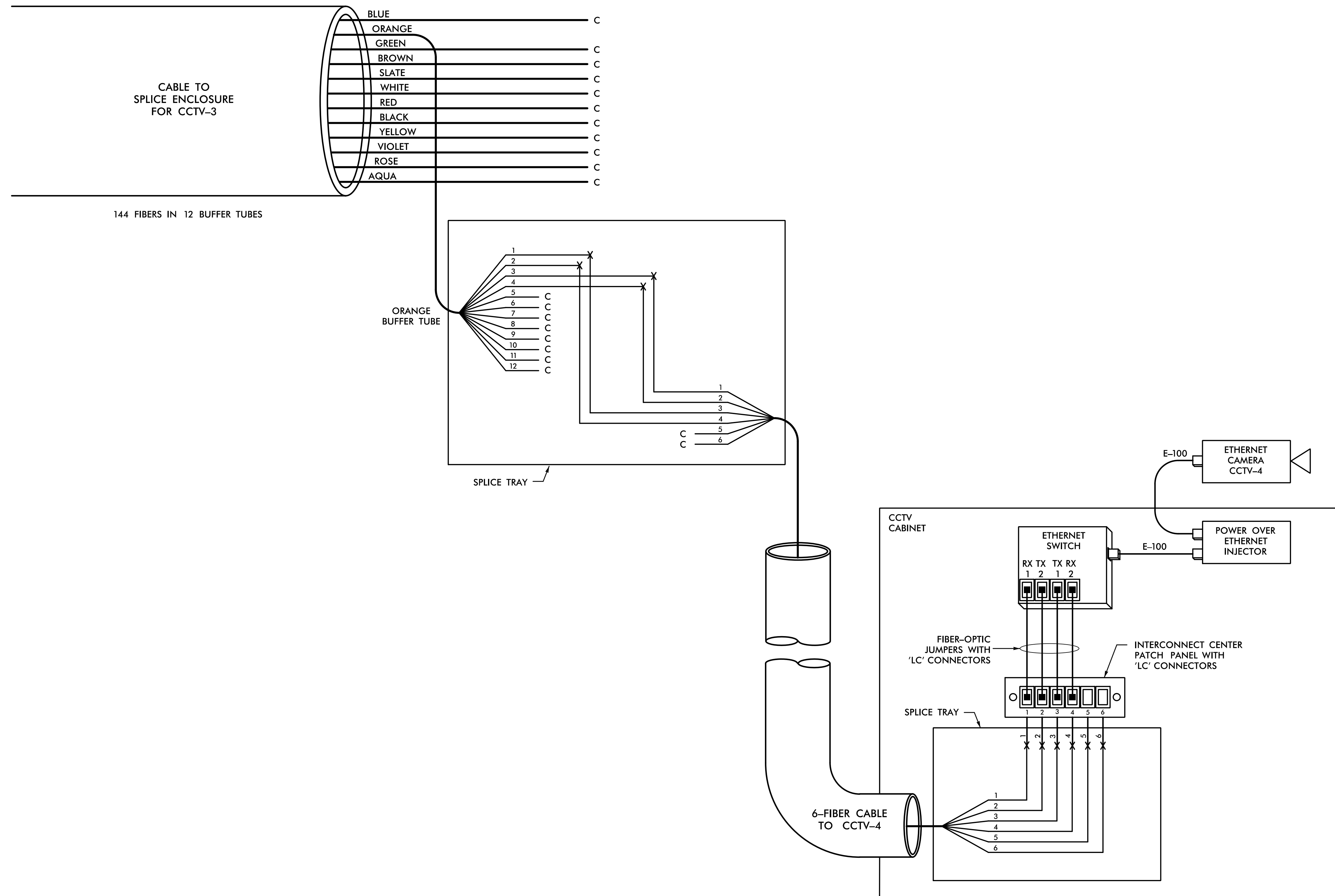
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Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	CCTV-3 FIBER-OPTIC SPlice DETAIL		SEAL H.L. Winstead, Jr. 4/25/2016
	DIVISION 7 PLAN DATE: APRIL 2016 PREPARED BY: T.R. TERRELL	GUILFORD CO. REVIEWED BY: A.D. KLINSIEK REVIEWED BY: H.L. WINSTEAD	
SCALE NONE	REVISIONS	INIT. DATE	CADD File name: U2524D ITS-24.dgn



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Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	CCTV-4 FIBER-OPTIC SPlice DETAIL		
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