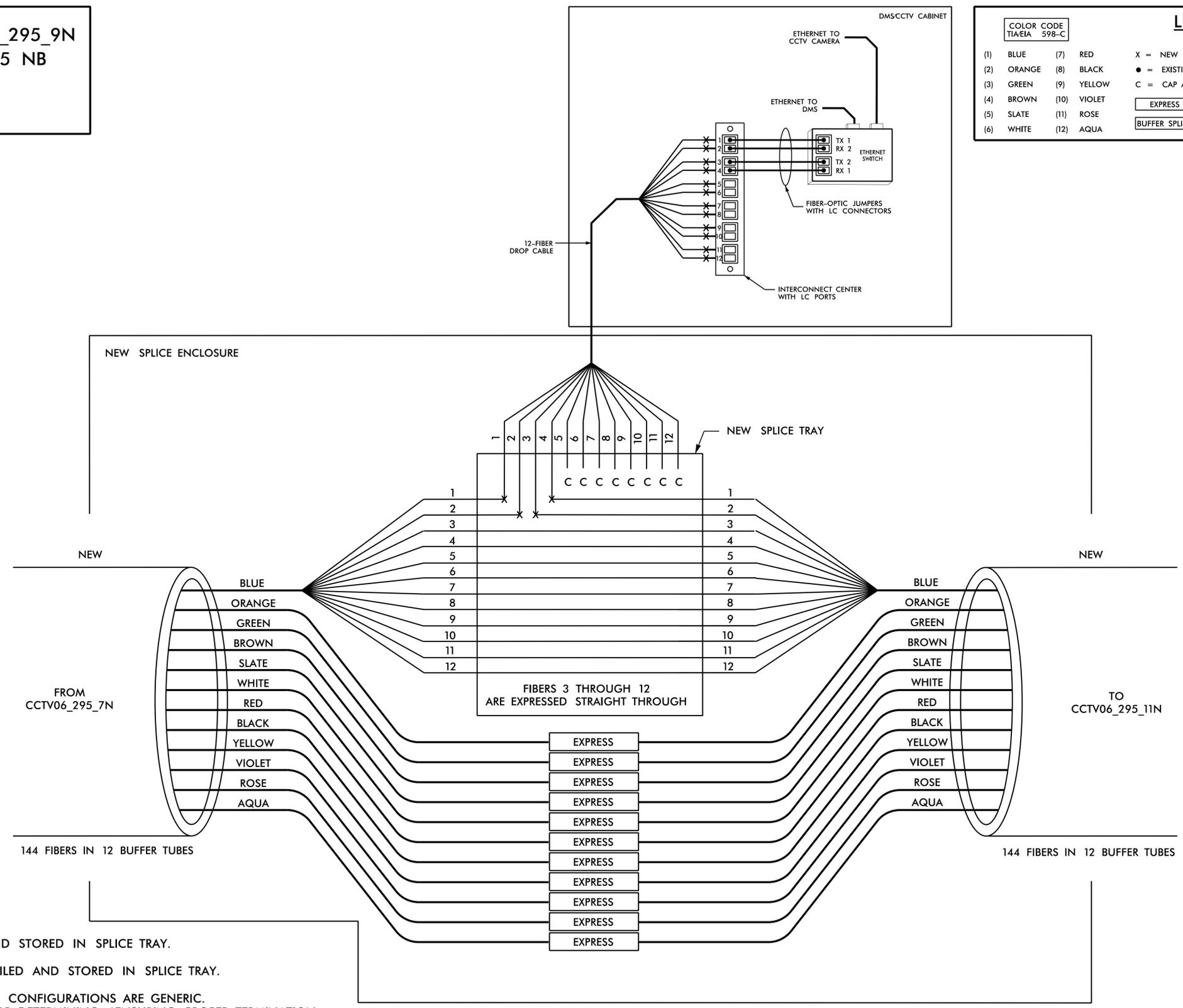


DMS06_295_9N/CCTV06_295_9N
 DMS/CCTV ON I-295 NB
 NEAR SR 1108
 (KING RD)

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE	
(3) GREEN	(9) YELLOW	C = CAP AND SEAL	
(4) BROWN	(10) VIOLET	EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING	
(5) SLATE	(11) ROSE	BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR	
(6) WHITE	(12) AQUA		



NOTES:

1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING /ENSURING PROPER TERMINATION.
4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

- (1) SPLICE
- (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.

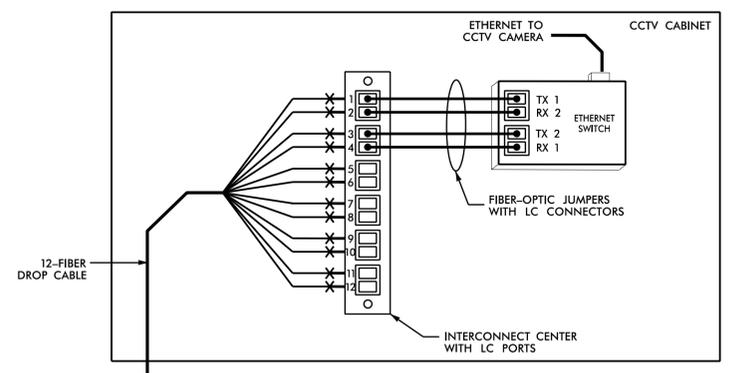
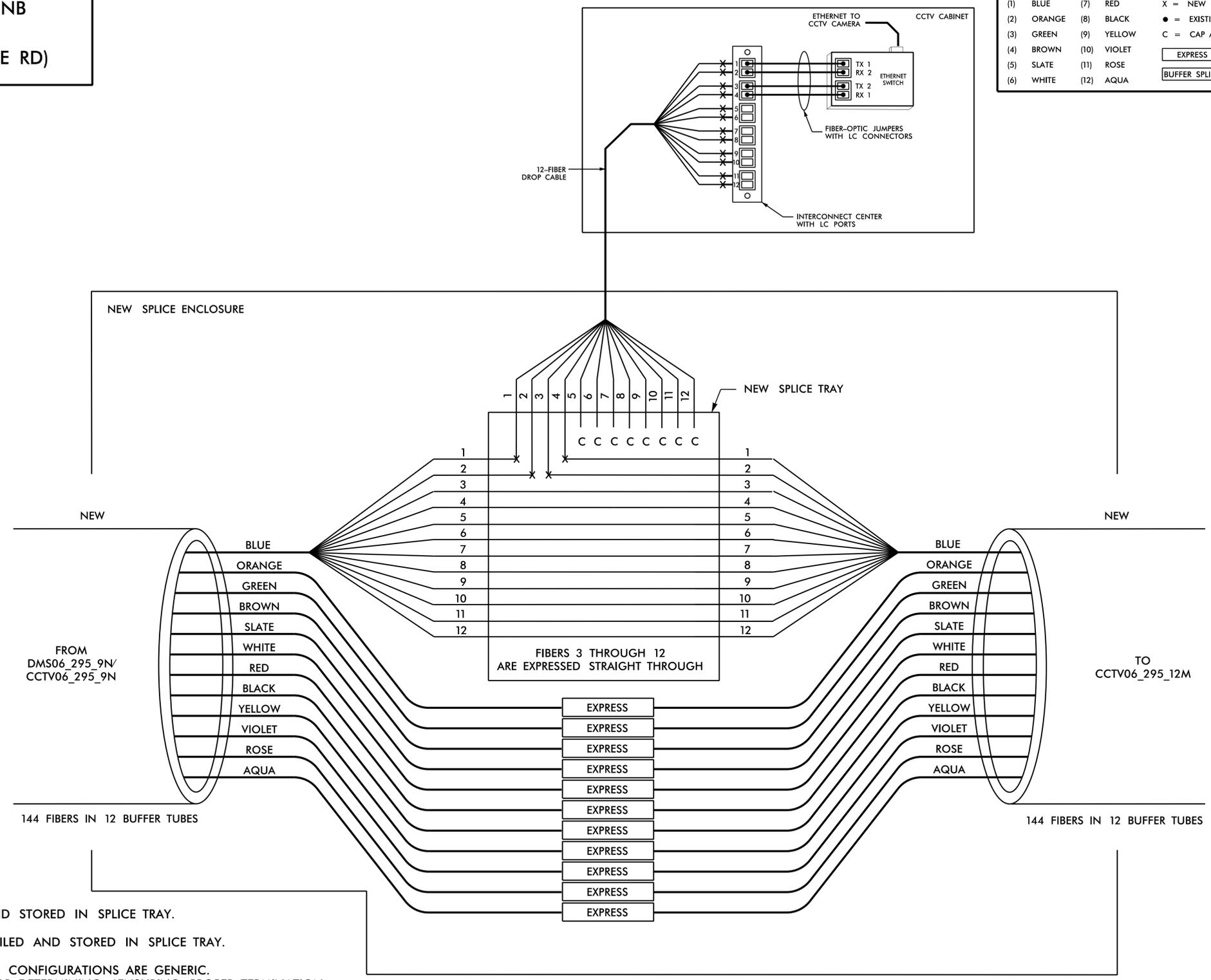
HNTB
 HNTB NORTH CAROLINA, P.C.
 4000 Center at North Hills St
 Suite 500
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for:		I-295		SEAL	
FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE		SPLICE DETAILS		NORTH CAROLINA PROFESSIONAL SEAL 023535	
Division 06	Cumberland Co.	Fayetteville	DAVID L. JONES ENGINEER		
PLAN DATE: January 2025	REVIEWED BY: D.L. Jones	PREPARED BY: G.D. Berry	REVIEWED BY: N.R. Simmons	DocuSigned by: David L. Jones 11/10/2025	
SCALE: NONE	REVISIONS:	INIT.	DATE	CADD Filename: U-2519F ITS 98.dgn	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CCTV06_295_11N
CCTV ON I-295 NB
NEAR SR 1140
(STRICKLAND BRIDGE RD)

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE	
(3) GREEN	(9) YELLOW	C = CAP AND SEAL	
(4) BROWN	(10) VIOLET	EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING	
(5) SLATE	(11) ROSE	BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR	
(6) WHITE	(12) AQUA		



NOTES:

1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING /ENSURING PROPER TERMINATION.
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- (1) SPLICE
- (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.

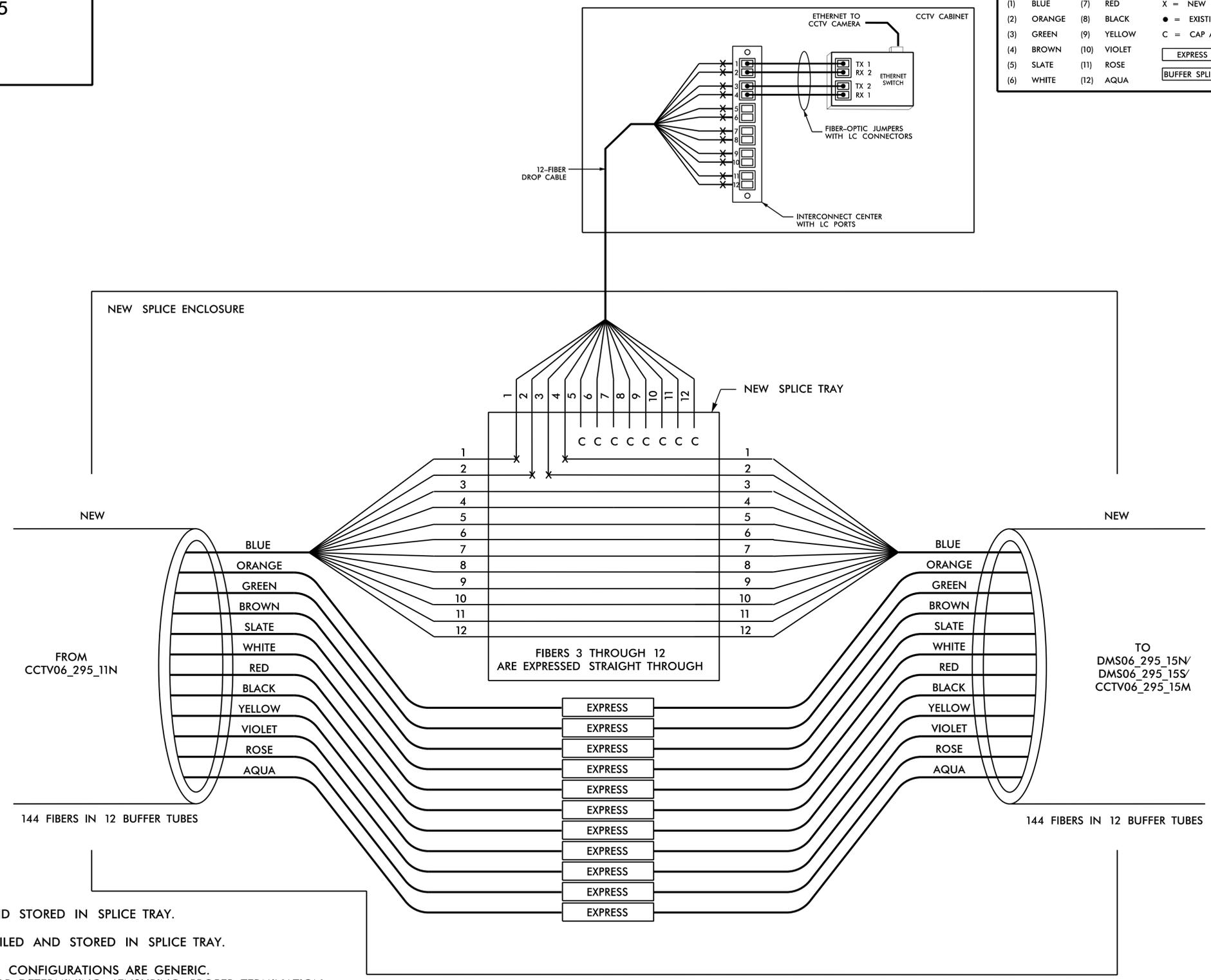
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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 4000 Center at North Hills St
 Suite 500
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529	I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS		SEAL  ENGINEER DAVID L. JONES 023535
	Division 06 PLAN DATE: January 2025 PREPARED BY: G.D. Berry	Cumberland Co. REVIEWED BY: D.L. Jones REVIEWED BY: N.R. Simmons	

CCTV06_295_12M
CCTV ON I-295
NEAR US 401
(RAEFORD RD)

COLOR CODE TIA/EIA 598-C			LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER		
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE		
(3) GREEN	(9) YELLOW	C = CAP AND SEAL		
(4) BROWN	(10) VIOLET	EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING		
(5) SLATE	(11) ROSE	BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR		
(6) WHITE	(12) AQUA			



NOTES:

1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING /ENSURING PROPER TERMINATION.
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- (1) SPLICE
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- (3) COMPANY NAME
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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.

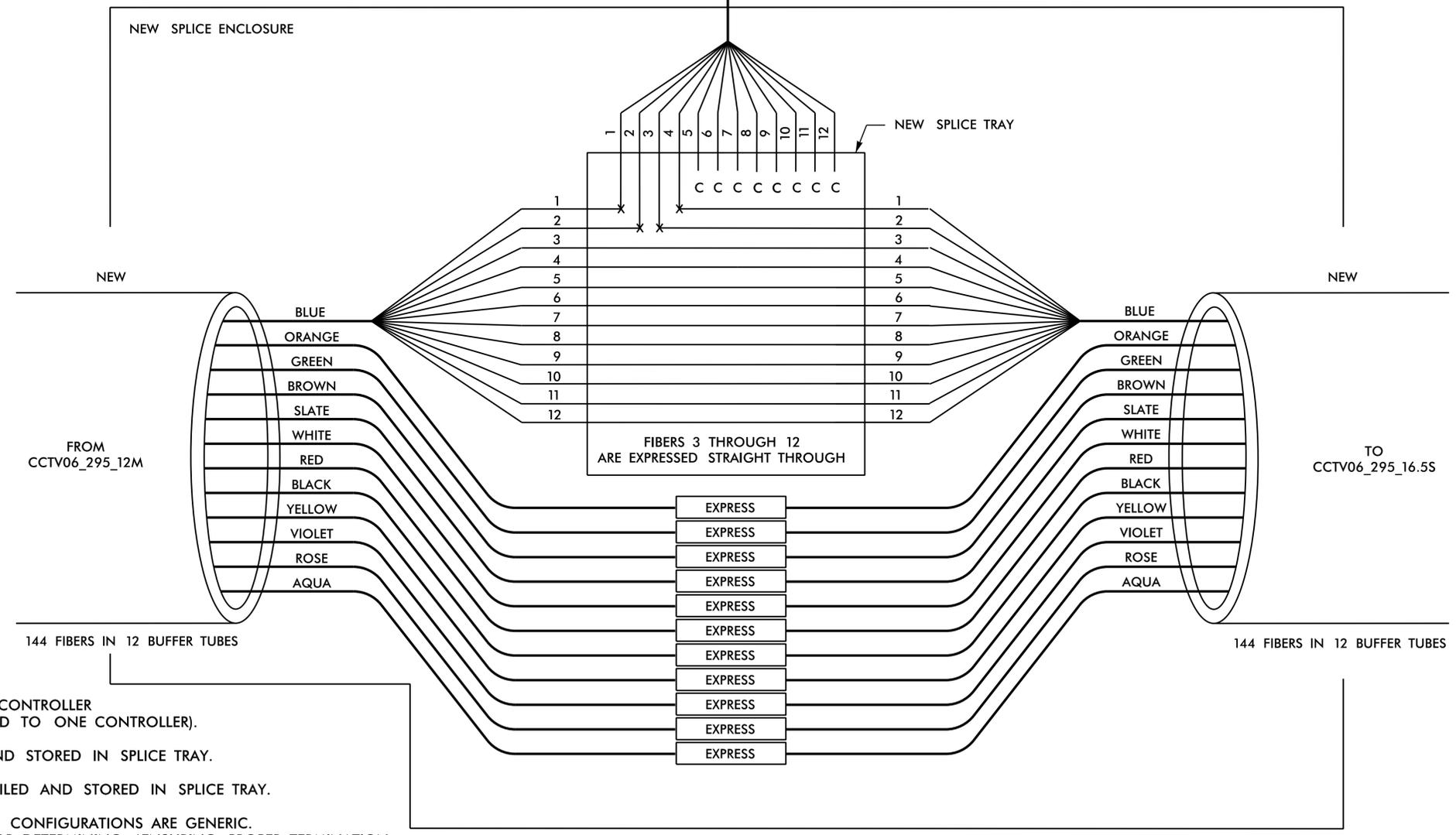
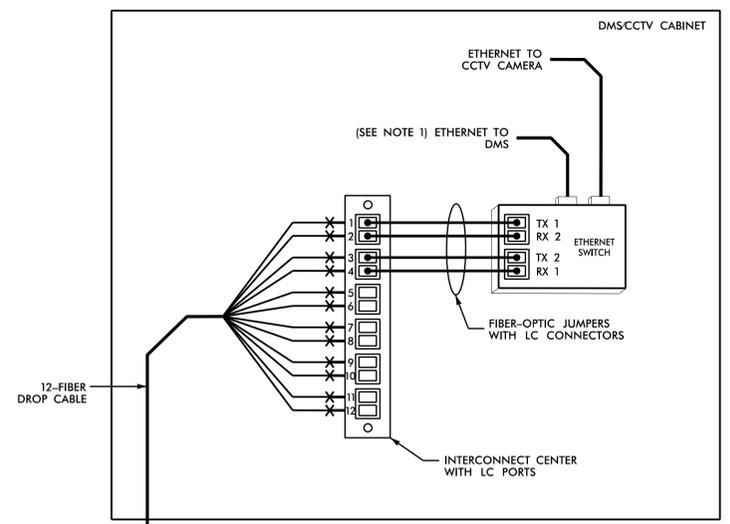
HNTB
 HNTB NORTH CAROLINA, P.C.
 4000 Center at North Hills St
 Suite 500
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for:		I-295		SEAL	
FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE		COMMUNICATIONS CABLE		NORTH CAROLINA PROFESSIONAL SEAL 023535	
Division 06 Cumberland Co. Fayetteville		Fayetteville		ENGINEER DAVID L. JONES	
PLAN DATE: January 2025	REVIEWED BY: D.L. Jones	PREPARED BY: G.D. Berry	REVIEWED BY: N.R. Simmons	DocuSigned by: David L. Jones 11/10/2025	
SCALE: NONE	REVISIONS:	INIT.	DATE	SIGNATURE DATE	
CADD File name: U-2519F ITS-100.dgn					

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DMS06_295_15NDMS06_295_15S/
CCTV06_295_15M
DMS/CCTV LOCATED ON I-295
NEAR SR 1400
(CLIFFDALE RD)

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X =	NEW FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	● =	EXISTING FUSION SPLICE
(3) GREEN	(9) YELLOW	C =	CAP AND SEAL
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING
(5) SLATE	(11) ROSE	BUFFER SPLICE	SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR
(6) WHITE	(12) AQUA		



NOTES:

- ONLY ONE ETHERNET TO DMS CONTROLLER (BOTH DMS BOARDS CONNECTED TO ONE CONTROLLER).
- UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
- UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
- ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING /ENSURING PROPER TERMINATION.
- INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

- SPLICE
- DATE
- COMPANY NAME
- 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.

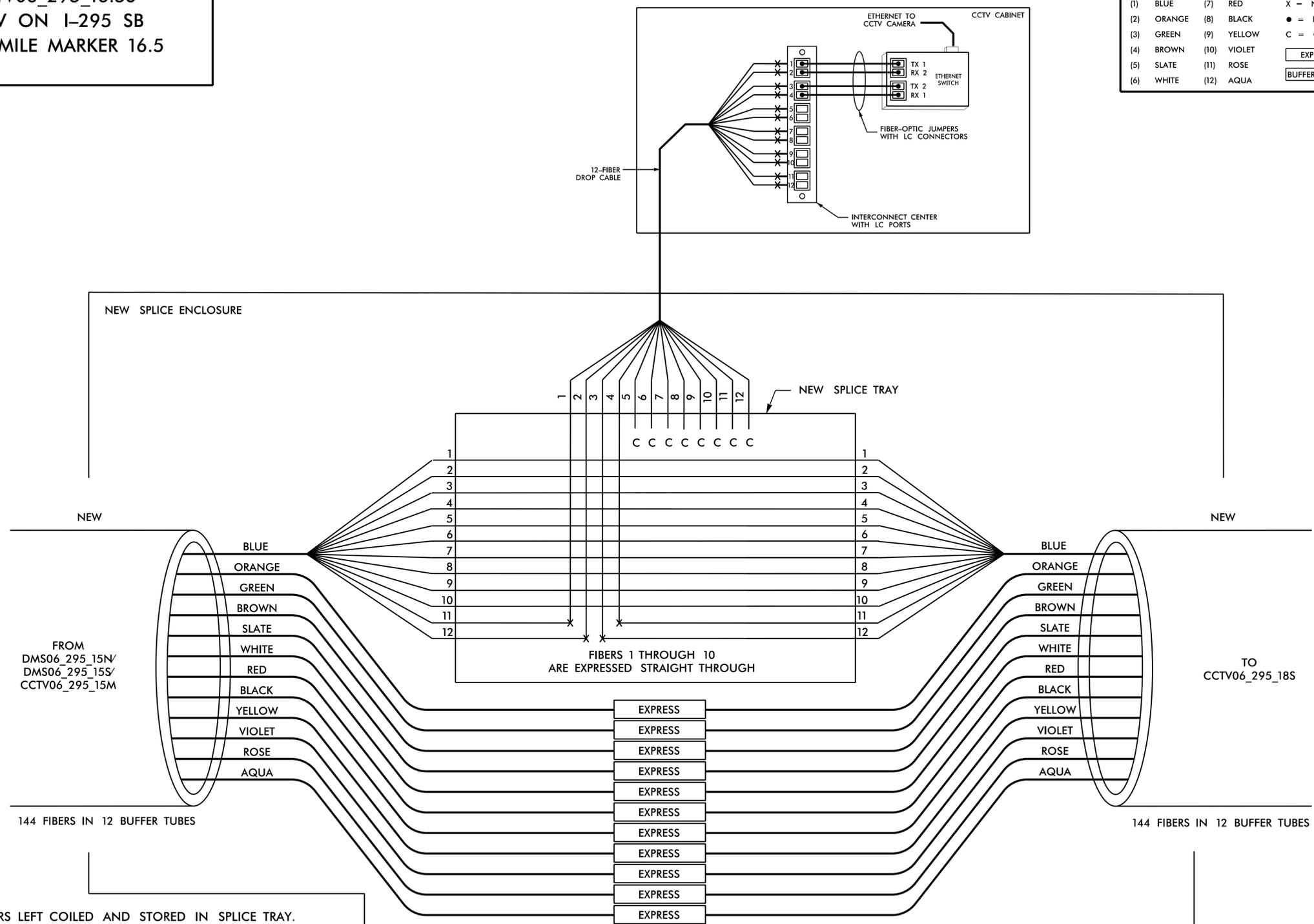
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4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529	I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS		SEAL  ENGINEER DAVID L. JONES
	Division 06 PLAN DATE: January 2025 PREPARED BY: G.D. Berry	Cumberland Co. REVIEWED BY: D.L. Jones REVIEWED BY: N.R. Simmons	
SCALE NONE	REVISIONS	INIT.	DATE

CCTV06_295_16.5S
CCTV ON I-295 SB
NEAR MILE MARKER 16.5

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE	
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NOTES:

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- (1) SPLICE
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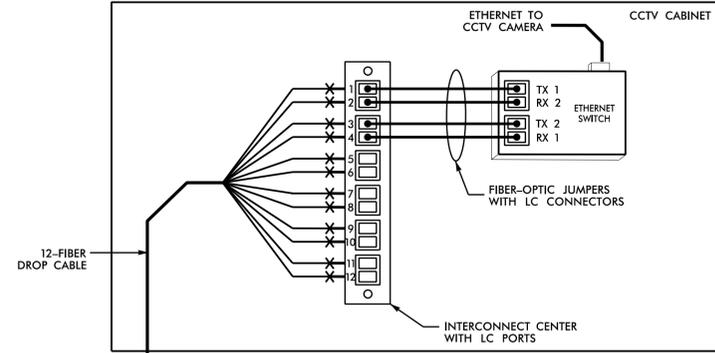
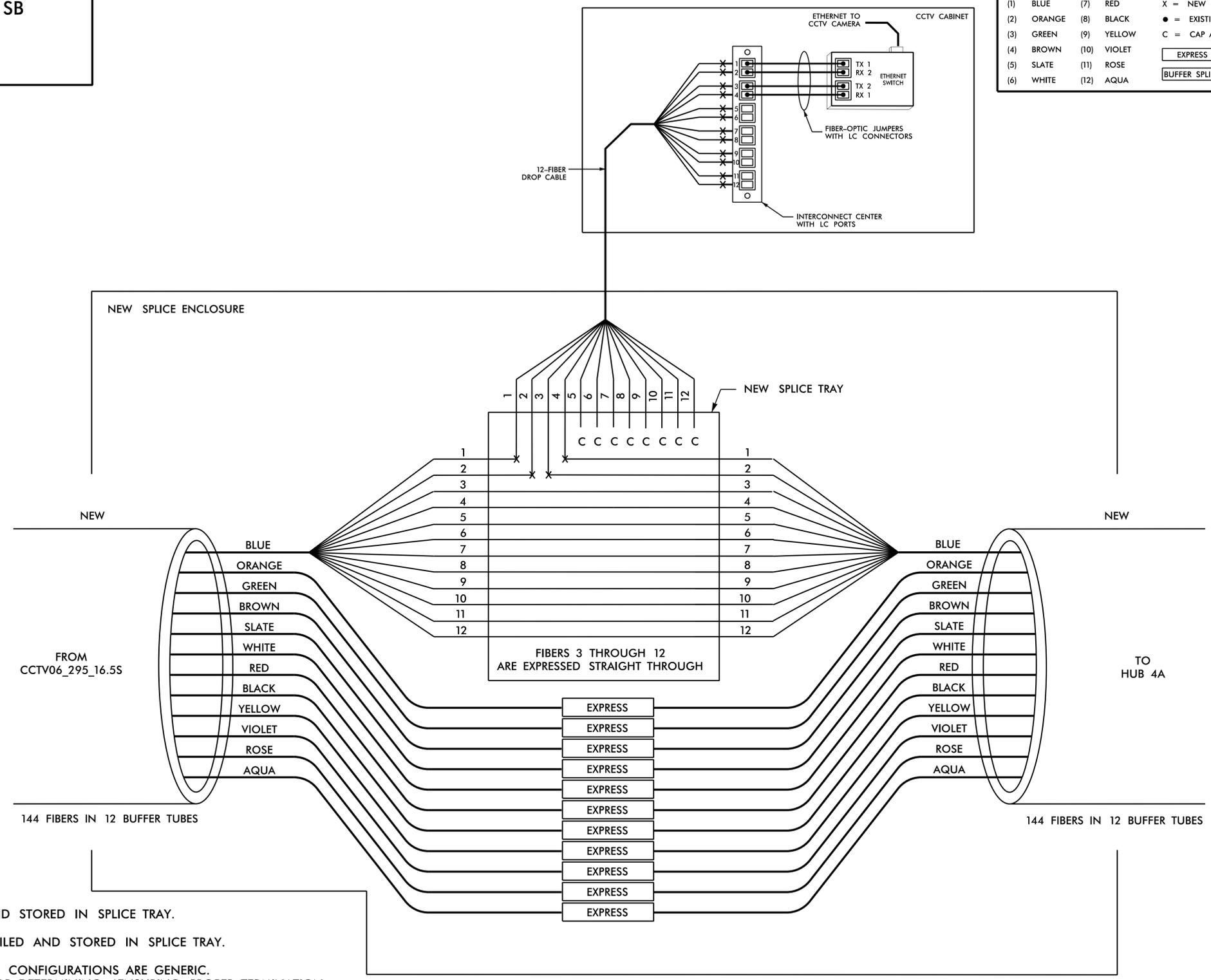
HNTB HNTB NORTH CAROLINA, P.C.
 4000 Center at North Hills St
 Suite 500
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for:		I-295		SEAL	
		FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE			
Division 06		Cumberland Co.		Fayetteville	
PLAN DATE: January 2025	REVIEWED BY: D.L. Jones	PREPARED BY: G.D. Berry	REVIEWED BY: N.R. Simmons	DocuSigned by: David L. Jones 11/10/2025	
SCALE: NONE	REVISIONS:	INIT.	DATE	DATE	
				CADD File name: U-2519F ITS-102.dgn	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CCTV06_295_18S
CCTV ON I-295 SB
NEAR SR 1403
(CANOPY LN)

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE	
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(6) WHITE	(12) AQUA		



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

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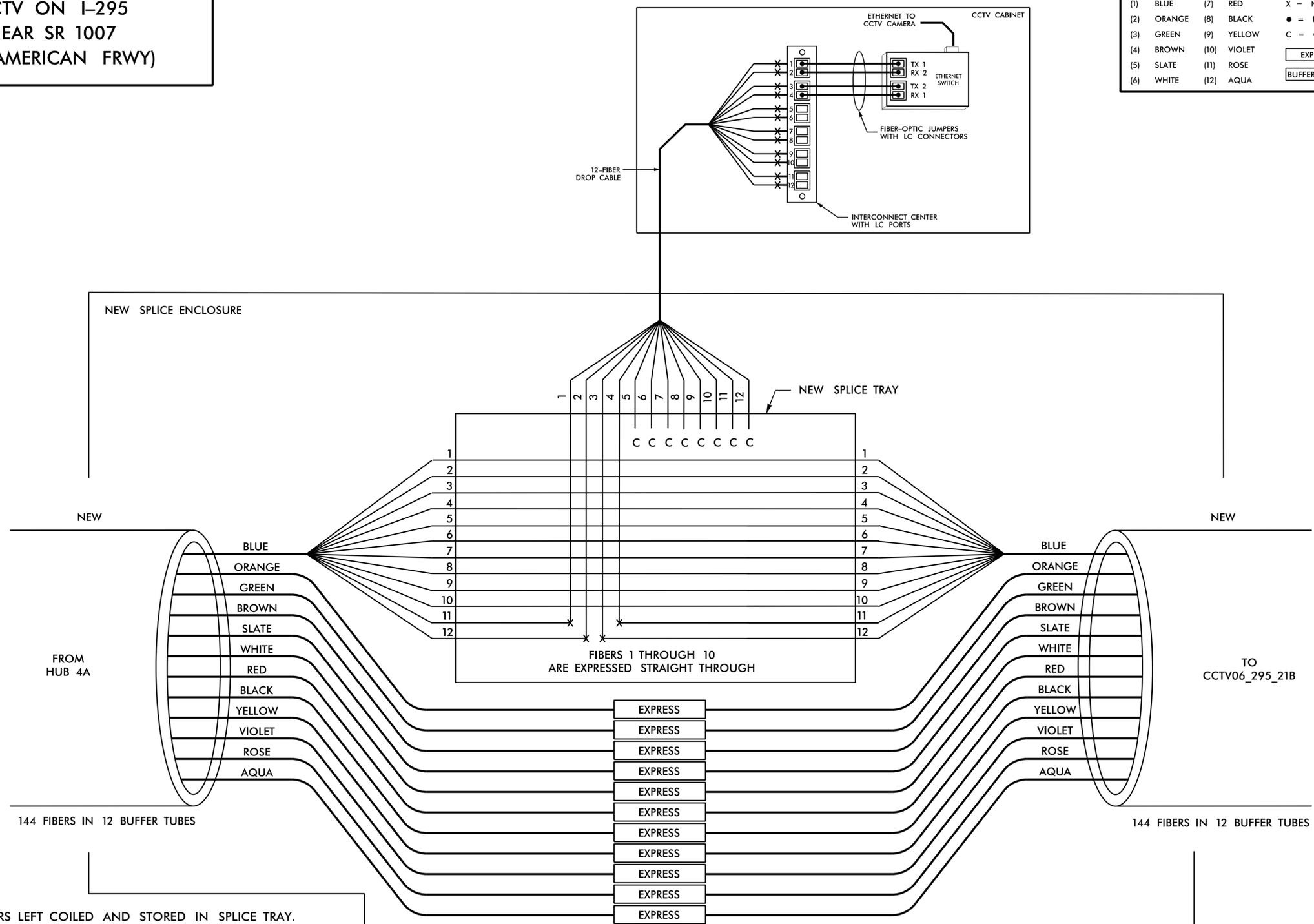
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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 HNTB NORTH CAROLINA, P.C.
 4000 Center at North Hills St
 Suite 500
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS		SEAL DAVID L. JONES 11/10/2025
	Division 06 PLAN DATE: January 2025 PREPARED BY: G.D. Berry	Cumberland Co. Fayetteville REVIEWED BY: D.L. Jones REVIEWED BY: N.R. Simmons	

CCTV06_295_21A
CCTV ON I-295
NEAR SR 1007
(ALL AMERICAN FRWY)

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE	
(3) GREEN	(9) YELLOW	C = CAP AND SEAL	
(4) BROWN	(10) VIOLET	EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING	
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(6) WHITE	(12) AQUA		



NOTES:

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- (1) SPLICE
- (2) DATE
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- (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.

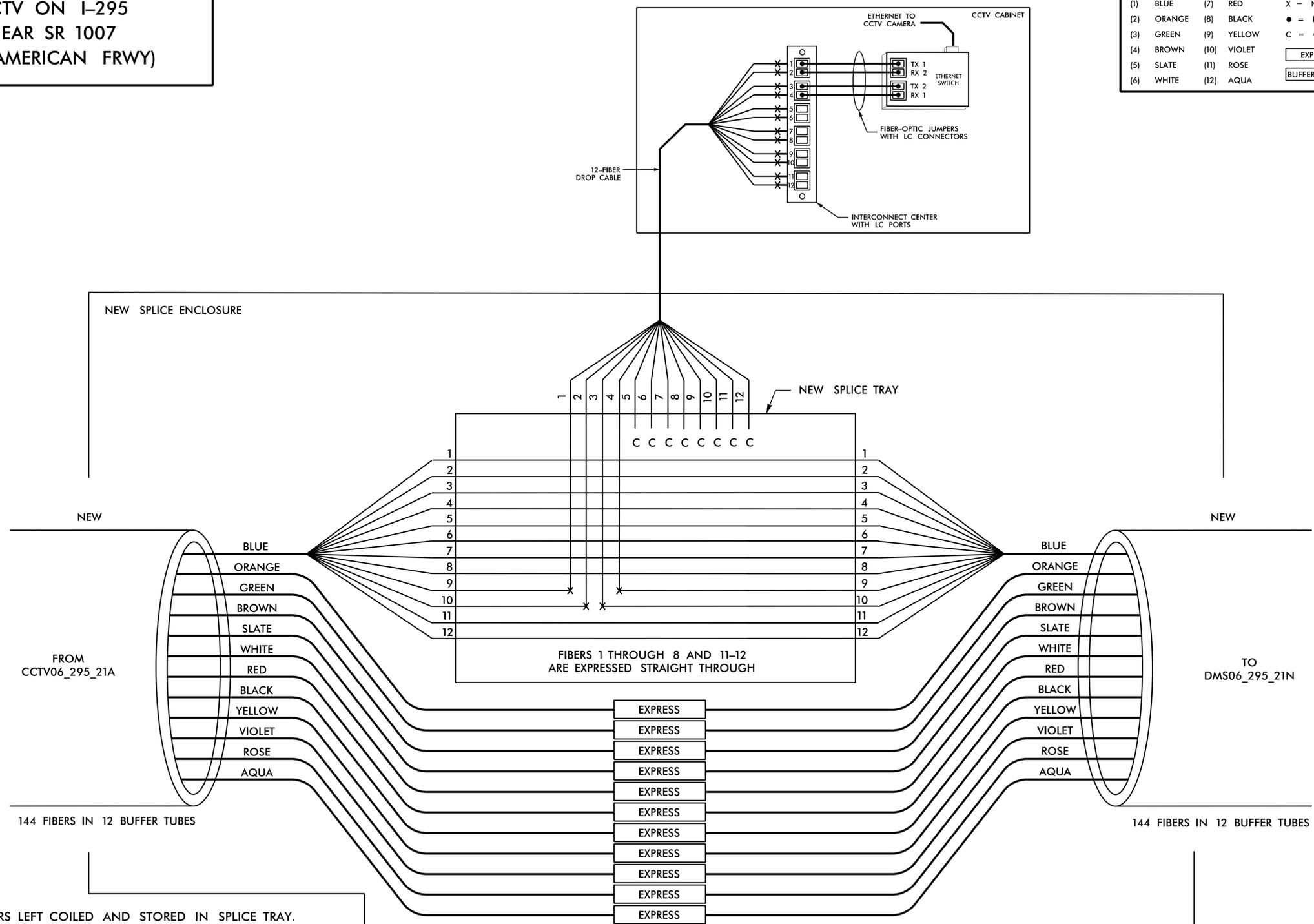
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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 HNTB NORTH CAROLINA, P.C.
 4000 Center at North Hills St
 Suite 500
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529	I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS		SEAL  SEAL 023535 ENGINEER DAVID L. JONES
	Division 06 PLAN DATE: January 2025 PREPARED BY: G.D. Berry	Cumberland Co. REVIEWED BY: D.L. Jones REVIEWED BY: N.R. Simmons	
SCALE NONE	REVISIONS _____	INIT. _____	DATE _____

CCTV06_295_21B
CCTV ON I-295
NEAR SR 1007
(ALL AMERICAN FRWY)

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE	
(3) GREEN	(9) YELLOW	C = CAP AND SEAL	
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NOTES:

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HNTB
 HNTB NORTH CAROLINA, P.C.
 4000 Center at North Hills St
 Suite 500
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

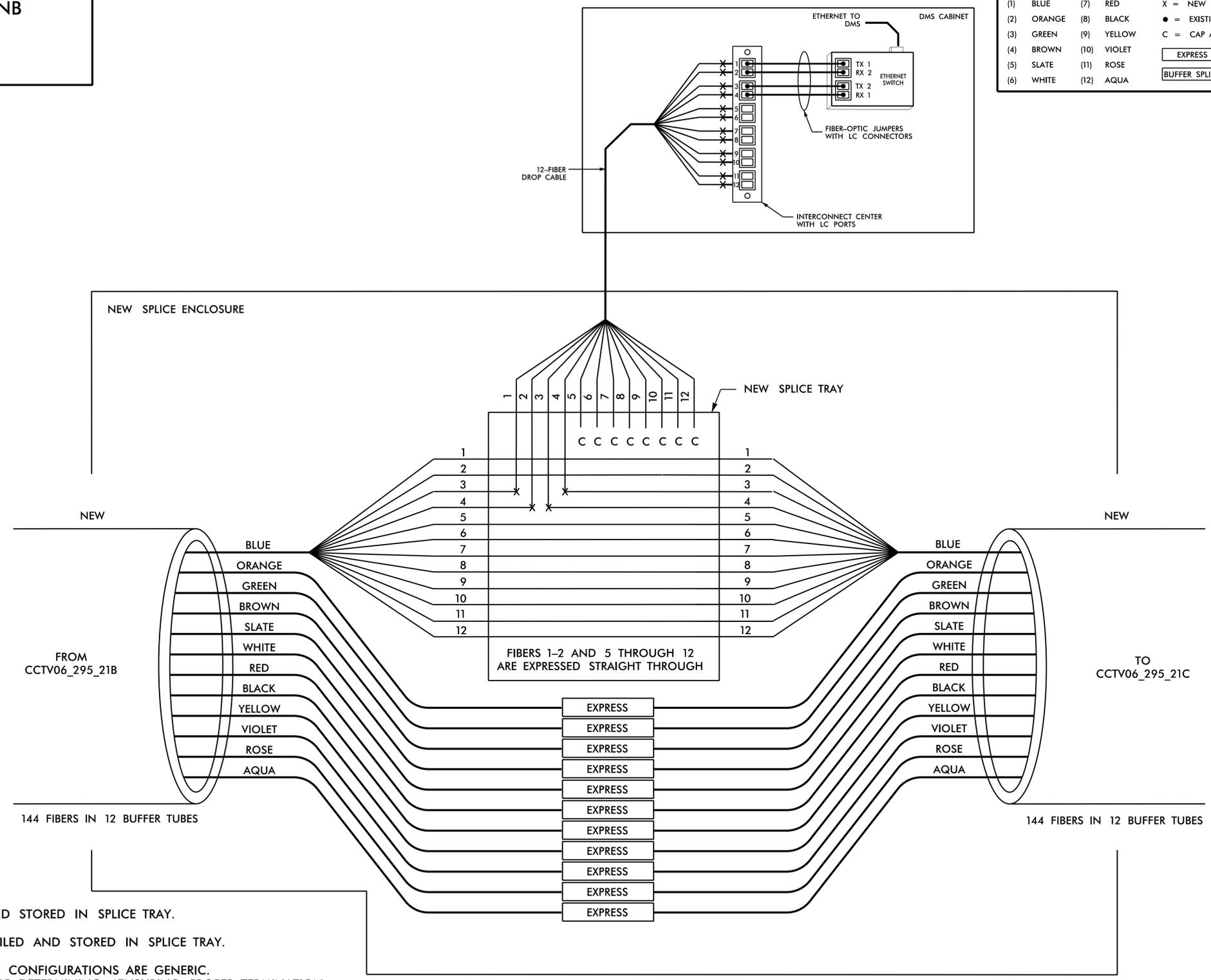
Plans Prepared for:		I-295	
		FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS	
250 N. Greenfield Place, Garner, NC 27529		Division 06	Cumberland Co. Fayetteville
SCALE	NONE	PLAN DATE: January 2025	REVIEWED BY: D.L. Jones
		PREPARED BY: G.D. Berry	REVIEWED BY: N.R. Simmons
		REVISIONS	INIT. DATE

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 023535
 ENGINEER
 DAVID L. JONES
 11/10/2025
 CADD Filename: U-2519F ITS-105.dgn

DMS06_295_21N
DMS ON I-295 NB
400' WEST OF
MILEPOST 21

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE	
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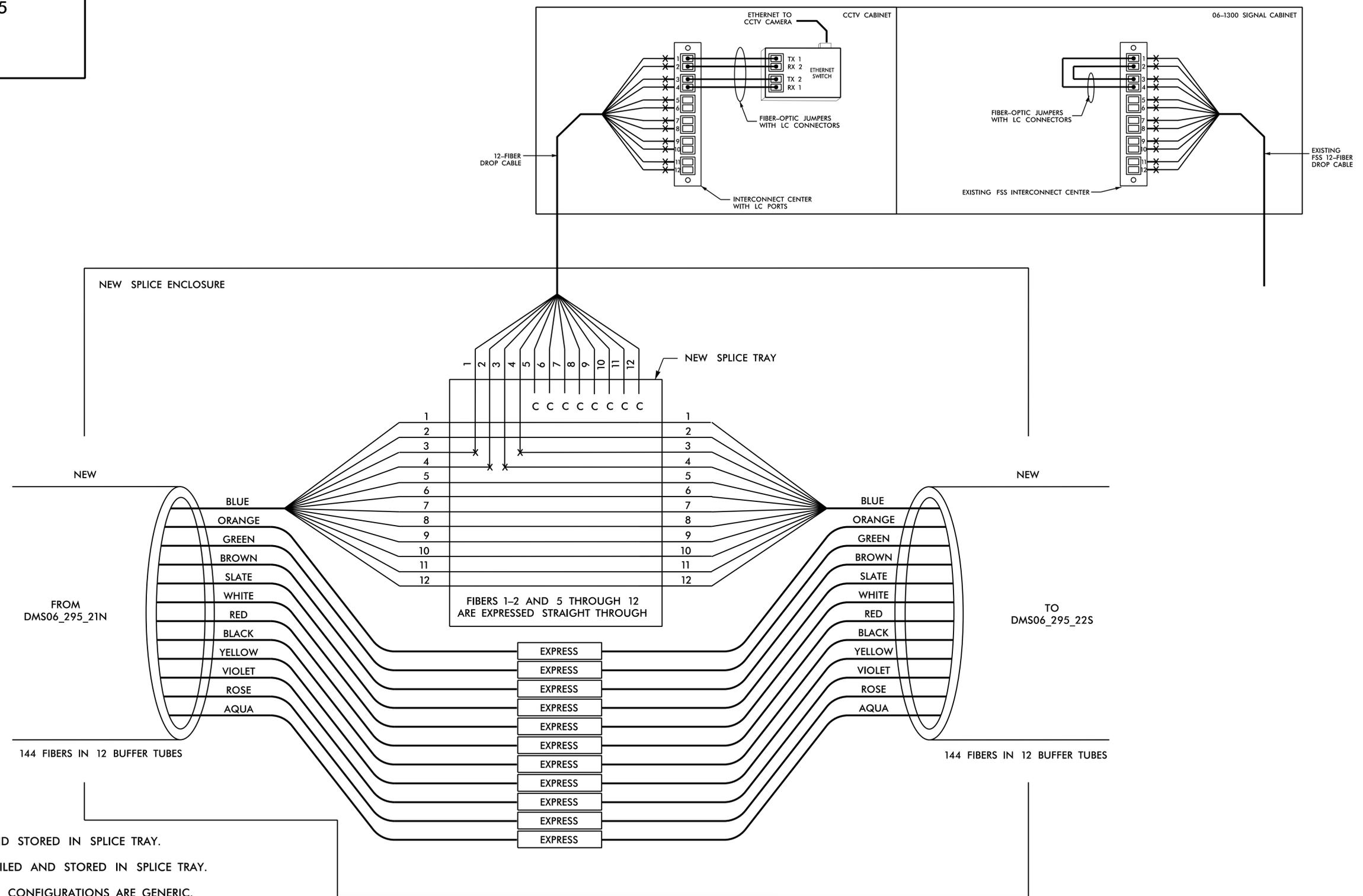
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HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

<p>Plans Prepared for:</p> <p>250 N. Greenfield Place, Garner, NC 27529</p>	<p>I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS</p>		<p>SEAL</p> <p>11/10/2025</p>							
	<p>Division 06 Cumberland Co. Fayetteville</p> <p>PLAN DATE: January 2025 REVIEWED BY: D.L. Jones</p> <p>PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons</p>	<p>SCALE</p> <p>NONE</p>		<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>INIT.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	INIT.	DATE		
NO.	DATE	INIT.	DATE							

CADD File name: U-2519F ITS-106.dgn

CCTV06_295_21C
CCTV ON I-295
NEAR NC 24
(BRAGG BLVD)



NOTES:

1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
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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.

COLOR CODE		LEGEND	
TIA/EIA	598-C		
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE	
(3) GREEN	(9) YELLOW	C = CAP AND SEAL	
(4) BROWN	(10) VIOLET	EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING	
(5) SLATE	(11) ROSE	BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR	
(6) WHITE	(12) AQUA		

HNTB
HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

<p>Plans Prepared for:</p>	<p>I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS</p>		<p>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER DAVID L. JONES 023535</p>
	<p>Division 06 Cumberland Co. Fayetteville</p>	<p>PLAN DATE: January 2025</p>	
<p>250 N. Greenfield Place, Garner, NC 27529</p>	<p>PREPARED BY: G.D. Berry</p>	<p>REVIEWED BY: N.R. Simmons</p>	<p>DATE: 11/10/2025</p>
<p>SCALE NONE</p>	<p>REVISIONS</p>	<p>INIT.</p>	<p>DATE</p>

DMS06_295_22S
DMS ON I-295 SB
NEAR MILE MARKER 22

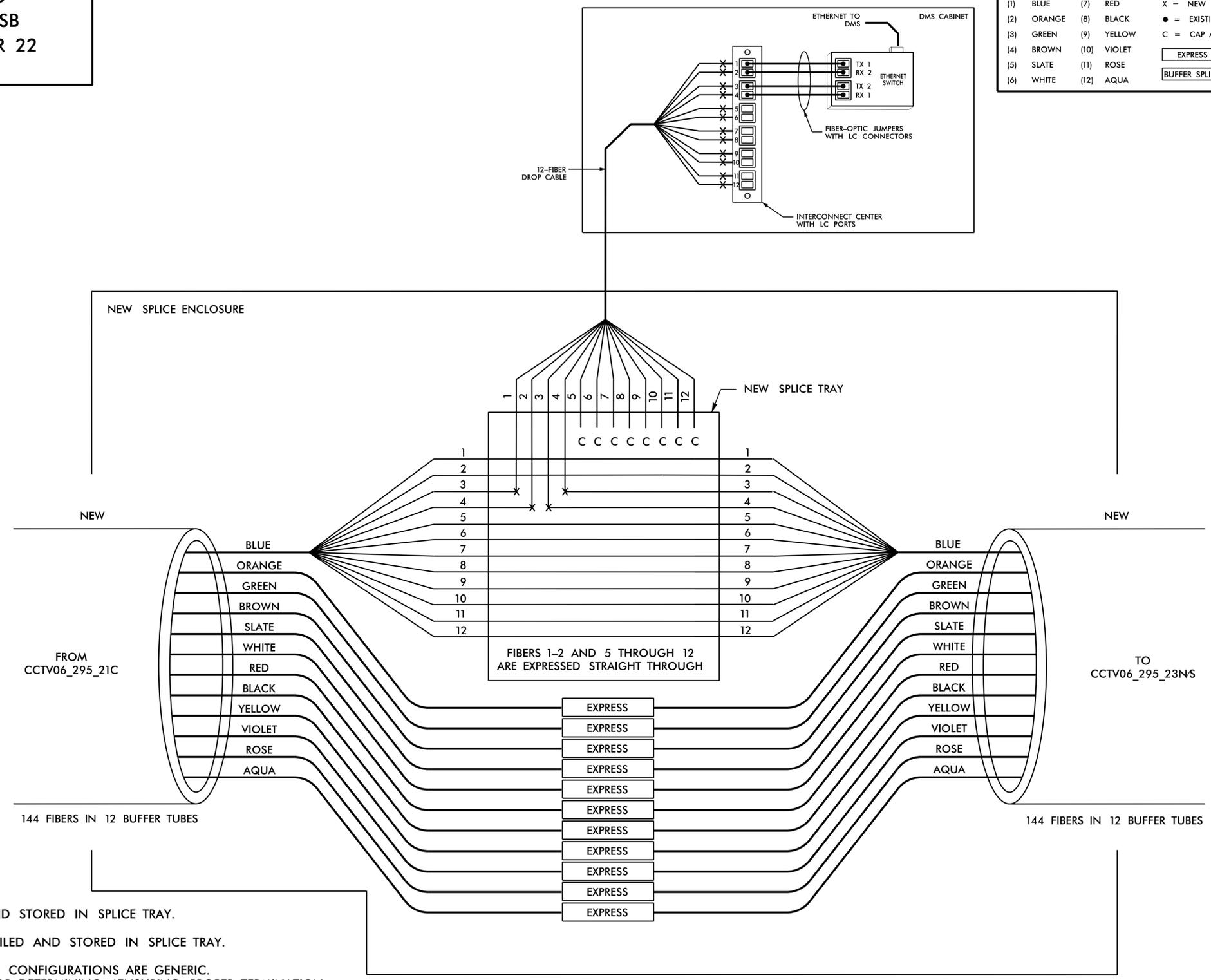
COLOR CODE
TIA/EIA 598-C

(1) BLUE	(7) RED
(2) ORANGE	(8) BLACK
(3) GREEN	(9) YELLOW
(4) BROWN	(10) VIOLET
(5) SLATE	(11) ROSE
(6) WHITE	(12) AQUA

LEGEND

X = NEW FUSION SPLICE INDIVIDUAL FIBER
● = EXISTING FUSION SPLICE
C = CAP AND SEAL

EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING
BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR



NOTES:

1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING /ENSURING PROPER TERMINATION.
4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

- (1) SPLICE
- (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.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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(919) 546-8997

Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	I-295		SEAL ENGINEER DAVID L. JONES	
	FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS			
Division 06 Cumberland Co. Fayetteville	PLAN DATE: January 2025	REVIEWED BY: D.L. Jones	PREPARED BY: G.D. Berry	REVIEWED BY: N.R. Simmons
SCALE NONE	REVISIONS	INIT.	DATE	SIGNATURE DATE

DocuSigned by: David L. Jones 11/10/2025
D:\04594028\04MFD...
CADD File name: U-2519F ITS-108.dgn

CCTV06_295_23NS
CCTVS ON I-295
NEAR NC 210
(MURCHISON RD)

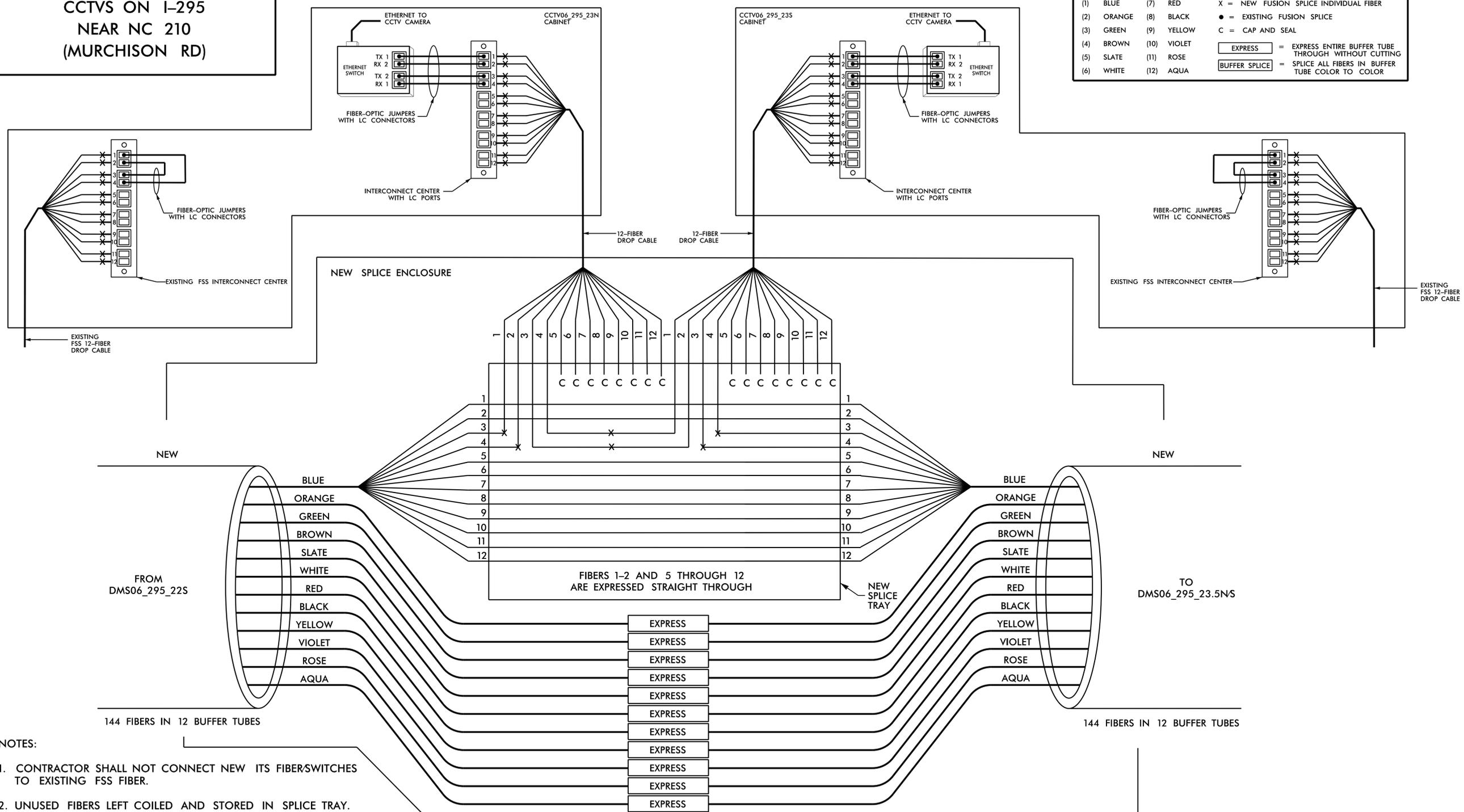
COLOR CODE TIA/EIA 598-C

(1) BLUE	(7) RED
(2) ORANGE	(8) BLACK
(3) GREEN	(9) YELLOW
(4) BROWN	(10) VIOLET
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LEGEND

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 BUFFER SPlice = SPlice ALL FIBERS IN BUFFER TUBE COLOR TO COLOR



NOTES:

1. CONTRACTOR SHALL NOT CONNECT NEW ITS FIBERS/SWITCHES TO EXISTING FSS FIBER.
2. UNUSED FIBERS LEFT COILED AND STORED IN SPlice TRAY.
3. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPlice TRAY.
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 Suite 500
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for:

I-295
 FAYETTEVILLE OUTER LOOP
 COMMUNICATIONS CABLE
 SPlice DETAILS

Division 06 Cumberland Co. Fayetteville

PLAN DATE: January 2025 REVIEWED BY: D.L. Jones

PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons

SCALE: NONE

REVISIONS: _____

INIT. DATE

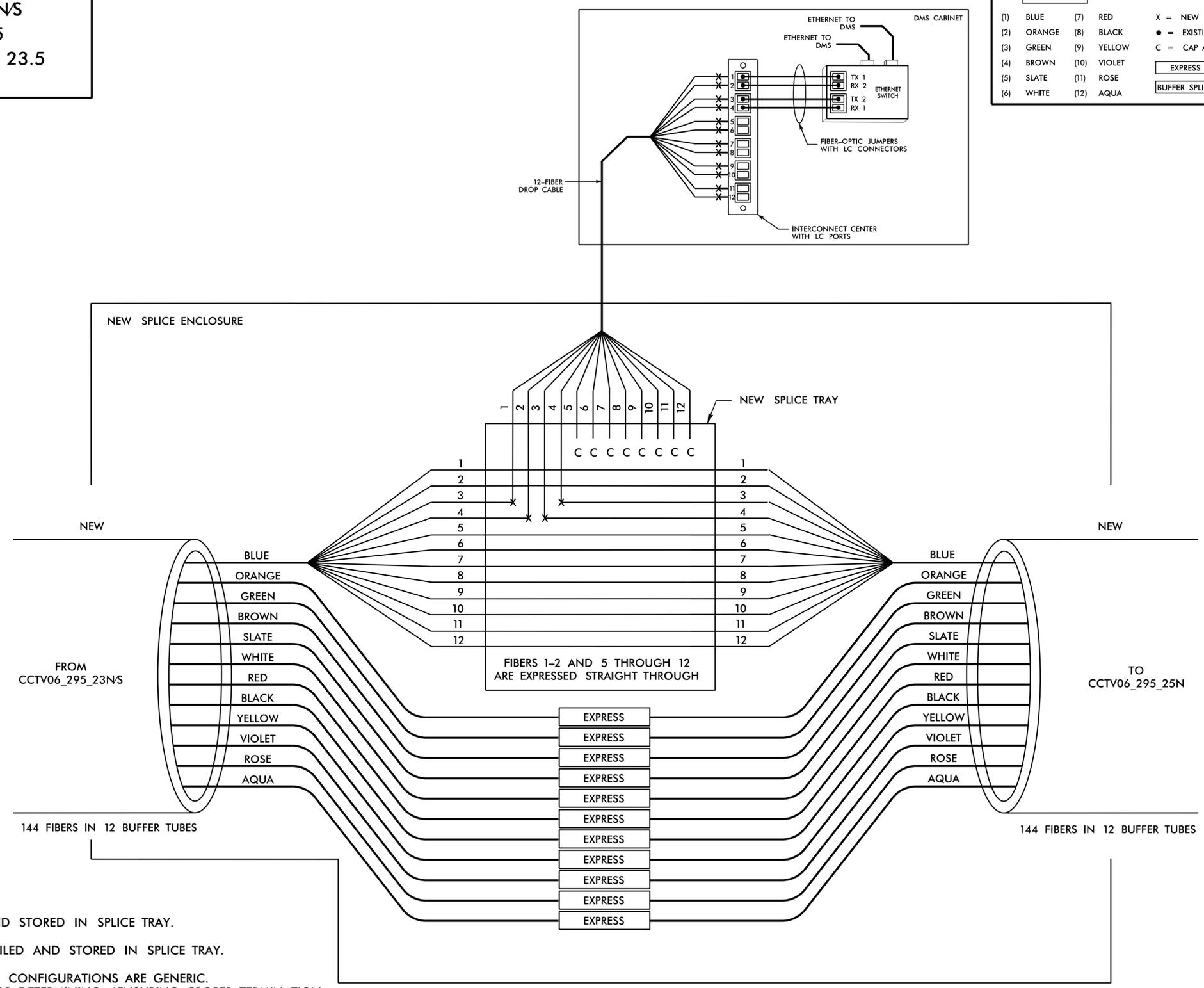
SEAL
 NORTH CAROLINA
 PROFESSIONAL ENGINEER
 SEAL 023535
 DAVID L. JONES

DocuSigned by:
 David L. Jones
 11/10/2025

CADD File name: U-2519F ITS-109.dgn

DMS06_295_23.5NS
DMS ON I-295
NEAR MILE MARKER 23.5

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE	
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(5) SLATE	(11) ROSE	BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR	
(6) WHITE	(12) AQUA		



NOTES:

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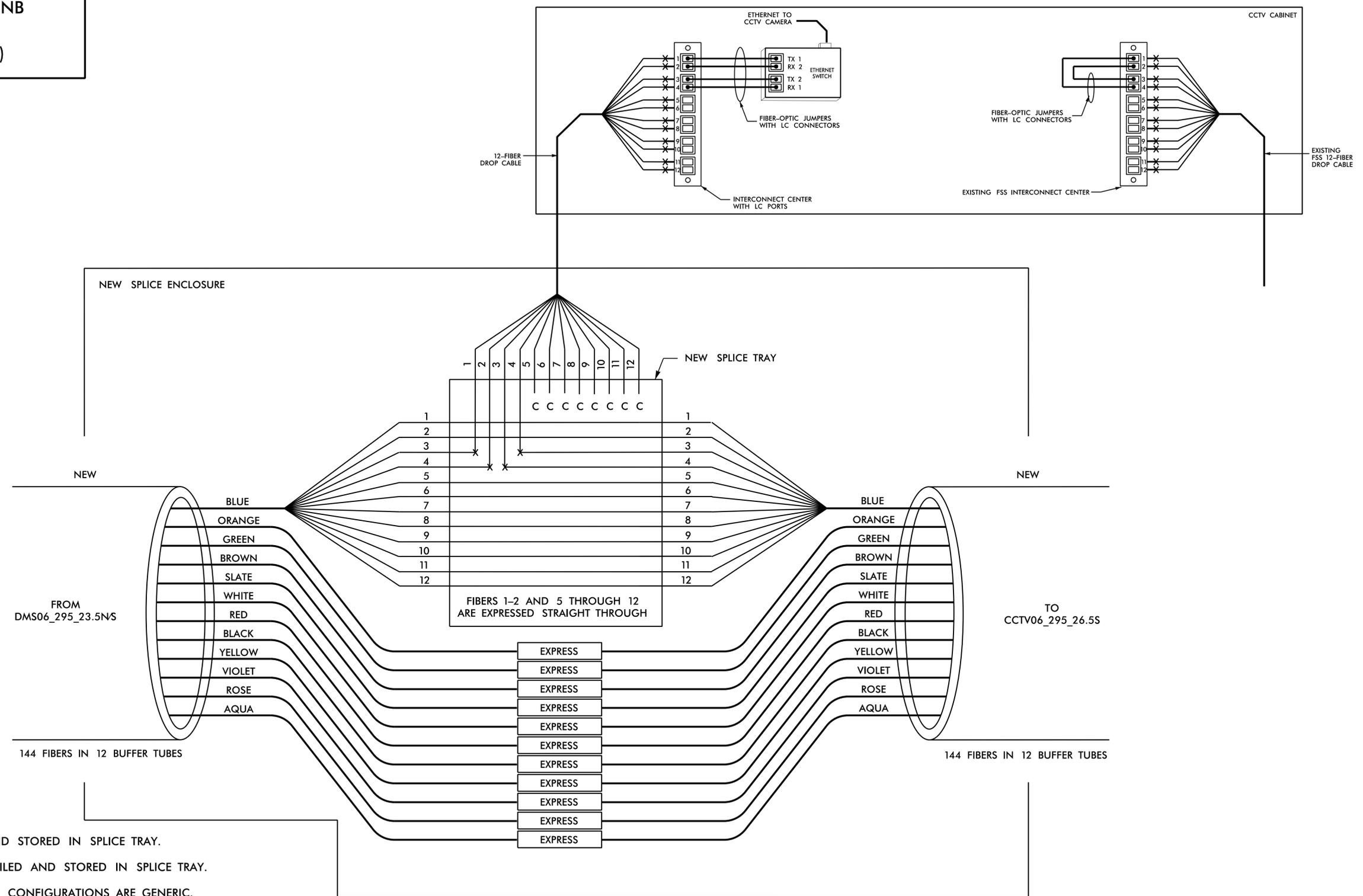
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Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	I-295		SEAL ENGINEER DAVID L. JONES
	FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS		
Division 06 Cumberland Co. Fayetteville	PLAN DATE: January 2025 PREPARED BY: G.D. Berry	REVIEWED BY: D.L. Jones REVIEWED BY: N.R. Simmons	11/10/2025 DATE
SCALE NONE	REVISIONS	INIT. DATE	SIGNATURE DATE

CCTV06_295_25N
CCTV ON I-295 NB
NEAR SR 1600
(MCARTHUR RD)



NOTES:

1. UNUSED FIBERS LEFT COILED AND STORED IN SPlice TRAY.
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LEGEND

COLOR CODE TIA/EIA 598-C		
(1) BLUE	(7) RED	X = NEW FUSION SPlice INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPlice
(3) GREEN	(9) YELLOW	C = CAP AND SEAL
(4) BROWN	(10) VIOLET	EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING
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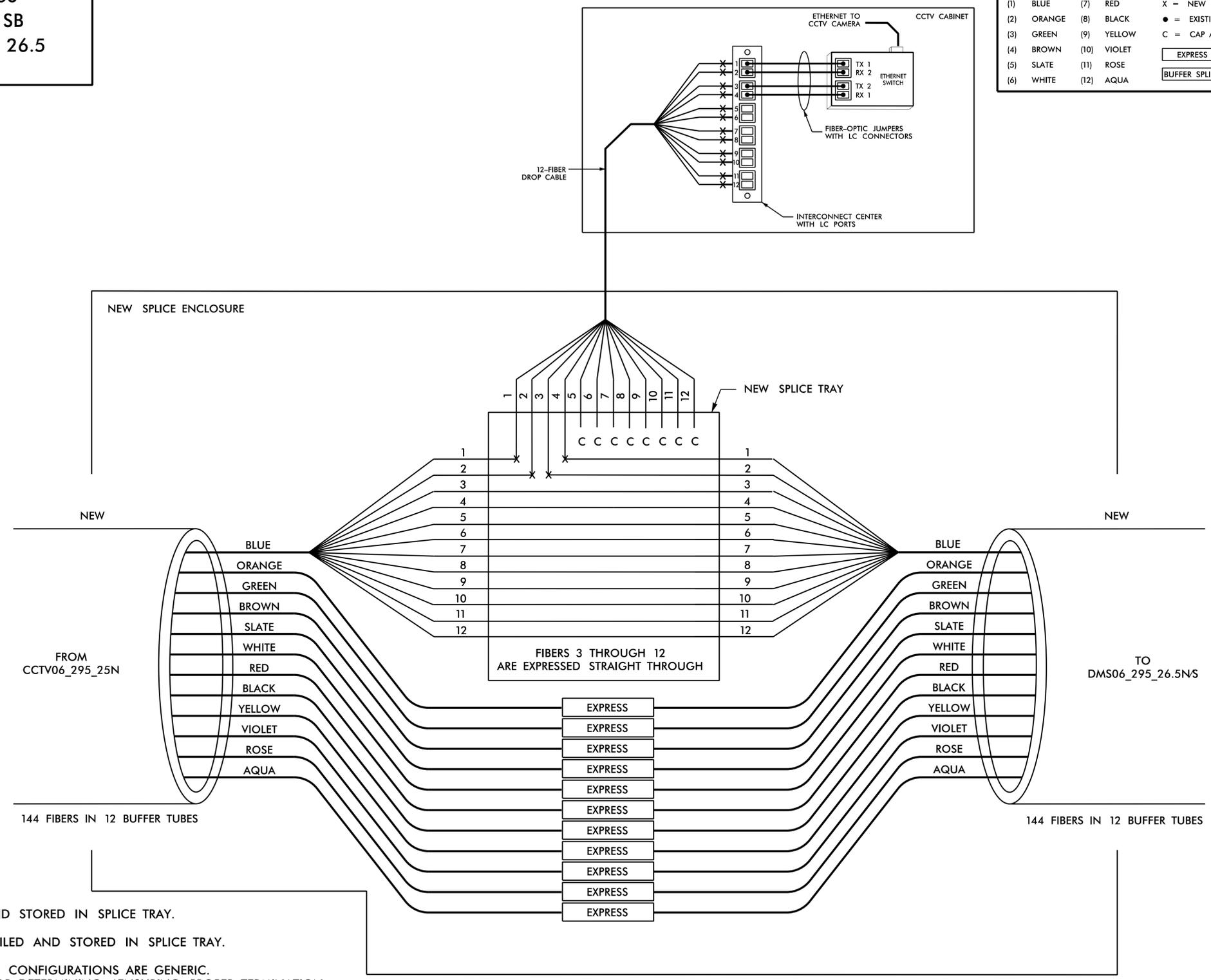
HNTB
HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPlice DETAILS		SEAL SEAL DAVID L. JONES ENGINEER 11/10/2025
	Division 06 PLAN DATE: January 2025 PREPARED BY: G.D. Berry	Cumberland Co. REVIEWED BY: D.L. Jones REVIEWED BY: N.R. Simmons	

CCTV06_295_26.5S
CCTV ON I-295 SB
NEAR MILE MARKER 26.5

COLOR CODE TIA/EIA 598-C			LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER		
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE		
(3) GREEN	(9) YELLOW	C = CAP AND SEAL		
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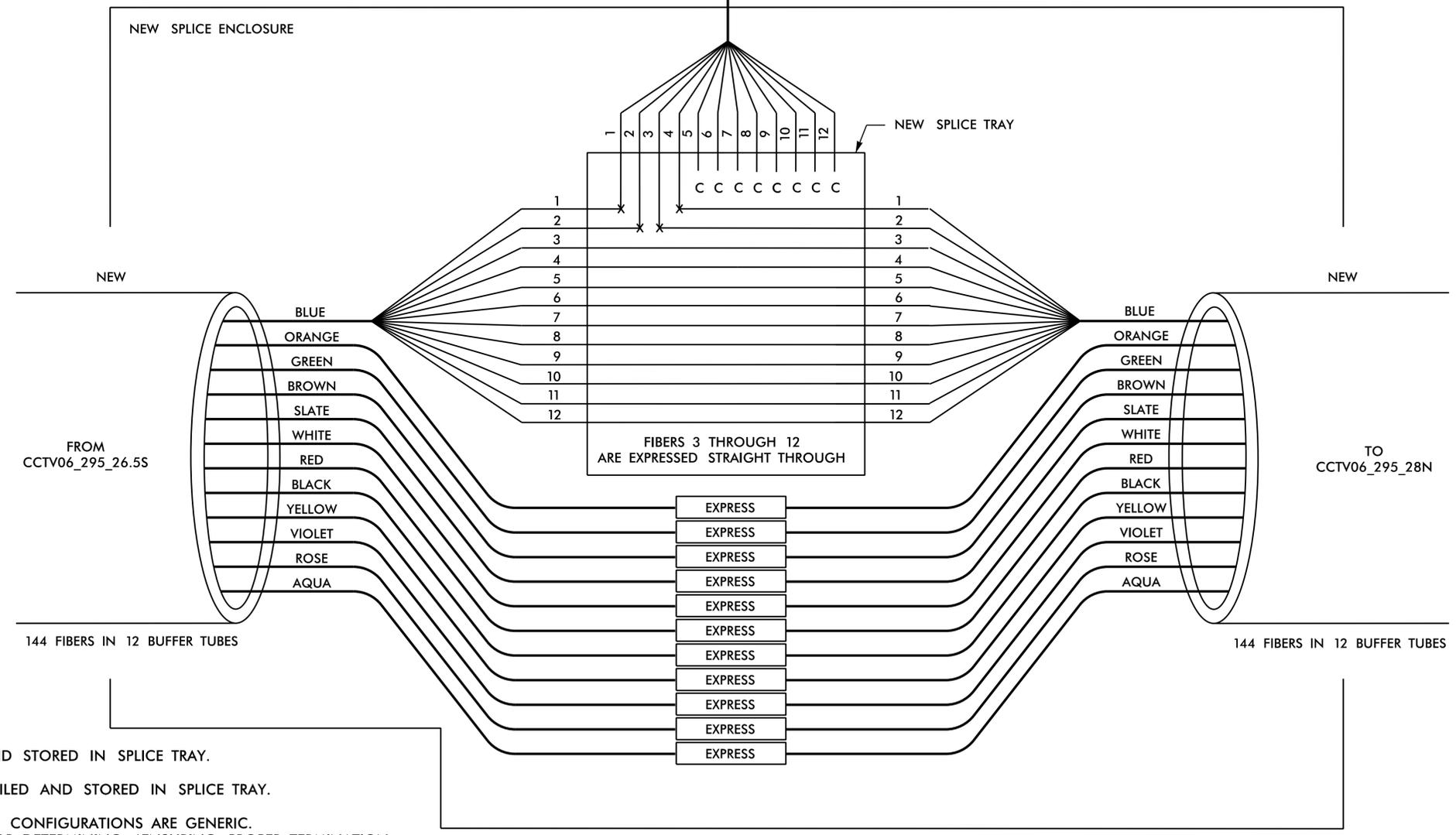
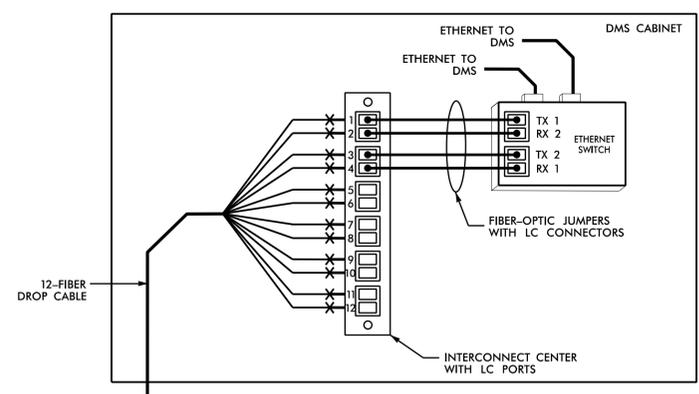
**DOCUMENT NOT CONSIDERED FINAL
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 HNTB NORTH CAROLINA, P.C.
 4000 Center at North Hills St
 Suite 500
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS		SEAL DAVID L. JONES ENGINEER
	Division 06 PLAN DATE: January 2025 PREPARED BY: G.D. Berry	Cumberland Co. Fayetteville REVIEWED BY: D.L. Jones REVIEWED BY: N.R. Simmons	
SCALE NONE	REVISIONS	INIT. DATE	SIGNATURE DATE

DMS06_295_26.5NS
DMS ON I-295
NEAR MILE MARKER 26.5

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
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 HNTB NORTH CAROLINA, P.C.
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 Suite 500
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS		SEAL DAVID L. JONES 11/10/2025
	Division 06 PLAN DATE: January 2025 PREPARED BY: G.D. Berry	Cumberland Co. REVIEWED BY: D.L. Jones REVIEWED BY: N.R. Simmons	
SCALE NONE	REVISIONS	INIT. DATE	SIGNATURE DATE

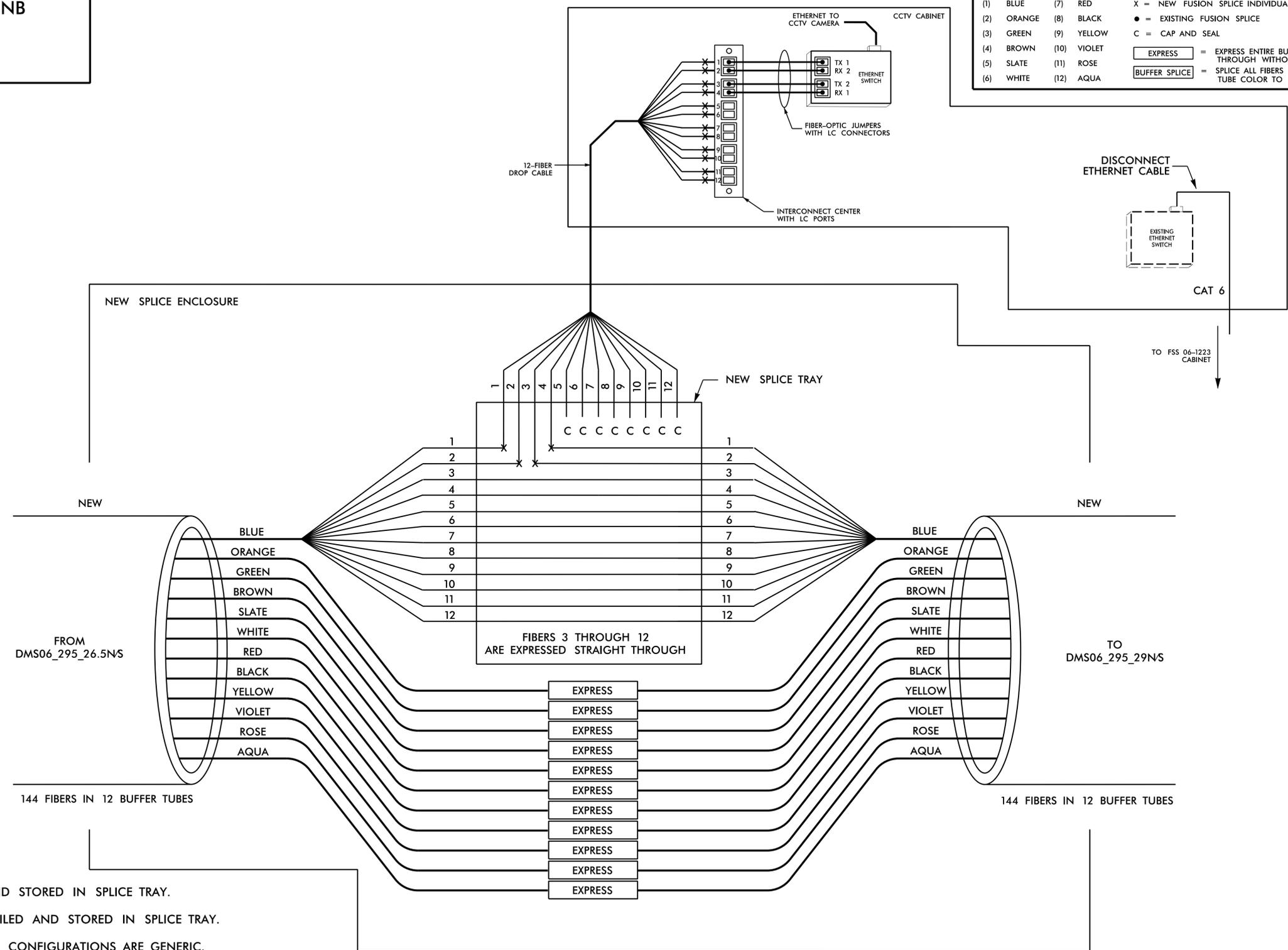
CCTV06_295_28N
CCTV ON I-295 NB
NEAR US 401
(RAMSEY ST)

COLOR CODE TIA/EIA 598-C

(1) BLUE	(7) RED
(2) ORANGE	(8) BLACK
(3) GREEN	(9) YELLOW
(4) BROWN	(10) VIOLET
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NC License No: C-1554
(919) 546-8997

Plans Prepared for:

I-295
FAYETTEVILLE OUTER LOOP
COMMUNICATIONS CABLE
SPlice DETAILS

Division 06 Cumberland Co. Fayetteville

PLAN DATE: January 2025 REVIEWED BY: D.L. Jones

PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons

SCALE: NONE

REVISIONS: _____

INIT. DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
023535
DAVID L. JONES

DocuSigned by:
David L. Jones
11/10/2025

CADD File name: U-2519F ITS-114.dgn

DMS06_295_29NS
DMS ON I-295
NEAR SR 1712
(JOHNSON ST)

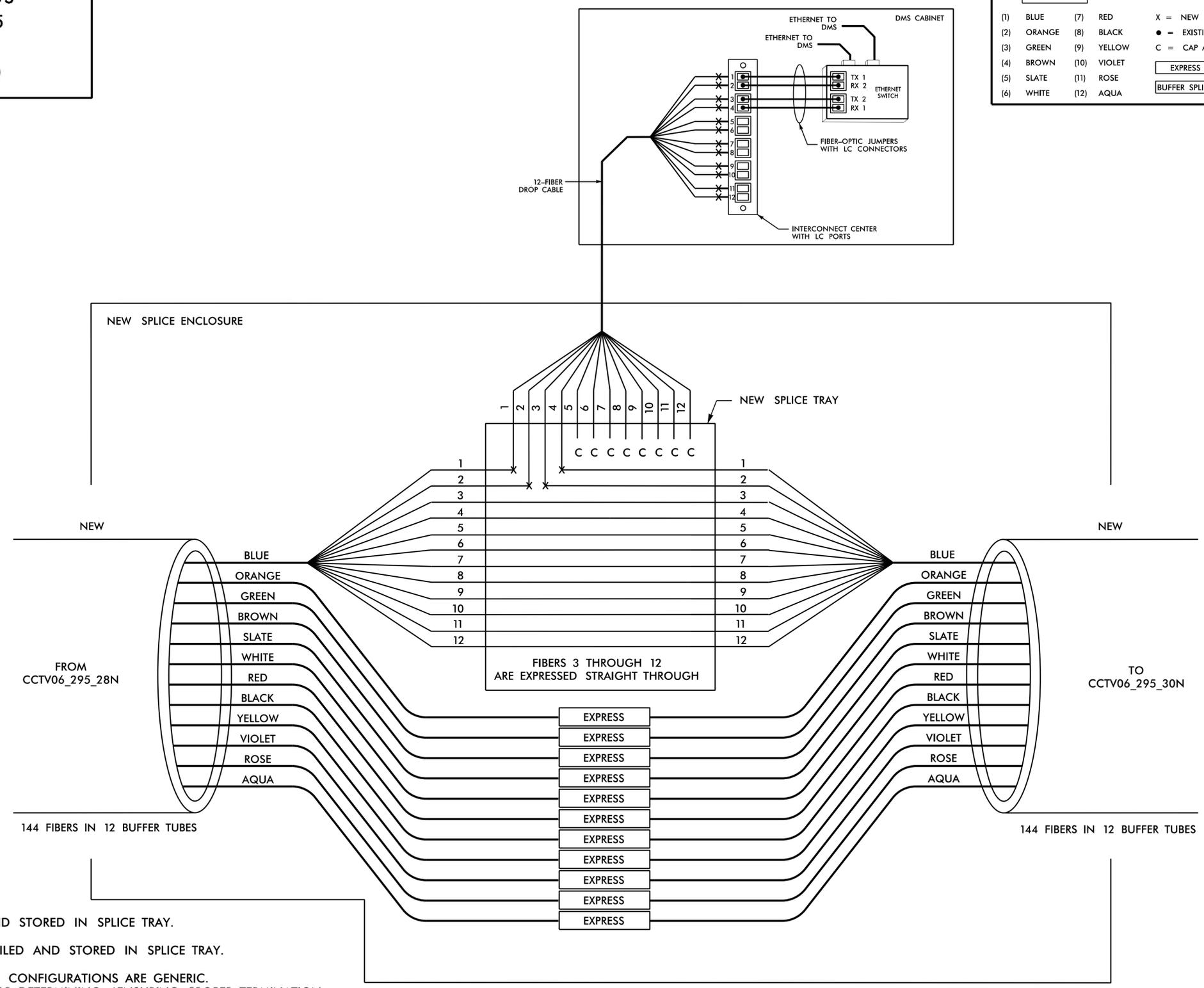
COLOR CODE TIA/EIA 598-C

(1) BLUE	(7) RED
(2) ORANGE	(8) BLACK
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NC License No: C-1554
(919) 546-8997

Plans Prepared for: I-295
FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE
SPlice DETAILS

Division 06 Cumberland Co. Fayetteville

PLAN DATE: January 2025 REVIEWED BY: D.L. Jones
PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons

SCALE: NONE

REVISIONS: _____

INIT. DATE

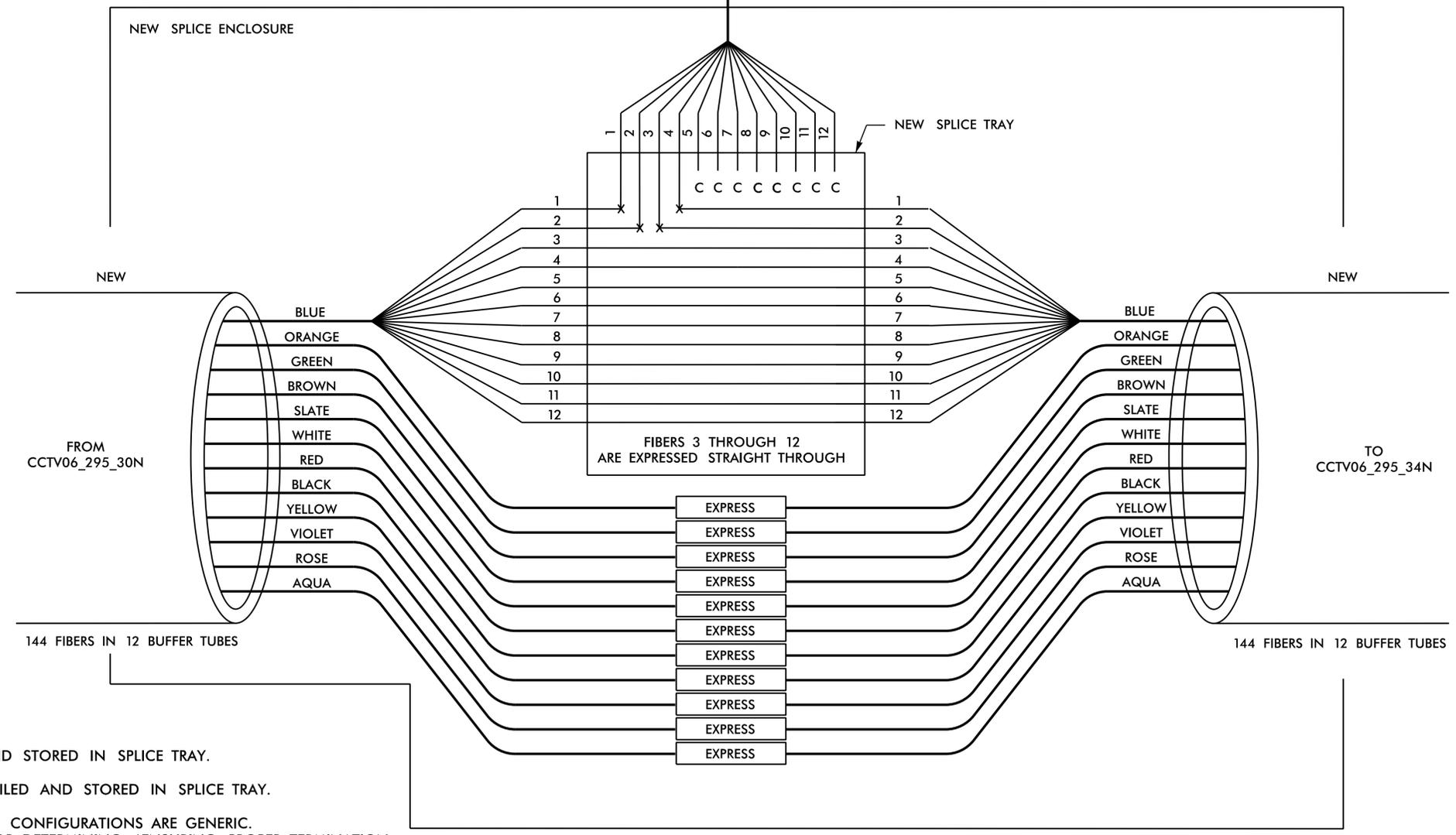
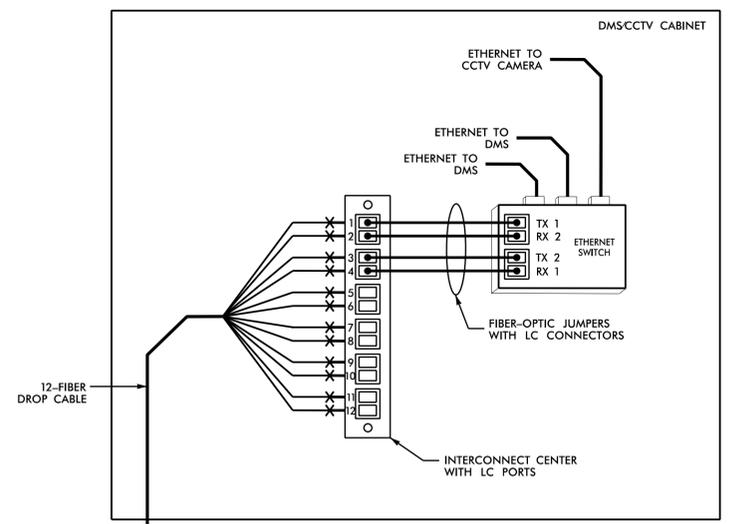
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 023535
DAVID L. JONES

DocuSigned by: David L. Jones 11/10/2025
D:\04594028\04MFD\SIGNATURE DATE
CADD File name: U-2519F ITS-115.dgn

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DMS06_295_33NS
CCTV06_295_33M
DMS/CCTV NEAR SR 1721
(COLEMAN RD)

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE	
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 Suite 500
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997



I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS	
Division 06	Cumberland Co. Fayetteville
PLAN DATE: January 2025	REVIEWED BY: D.L. Jones
PREPARED BY: G.D. Berry	REVIEWED BY: N.R. Simmons



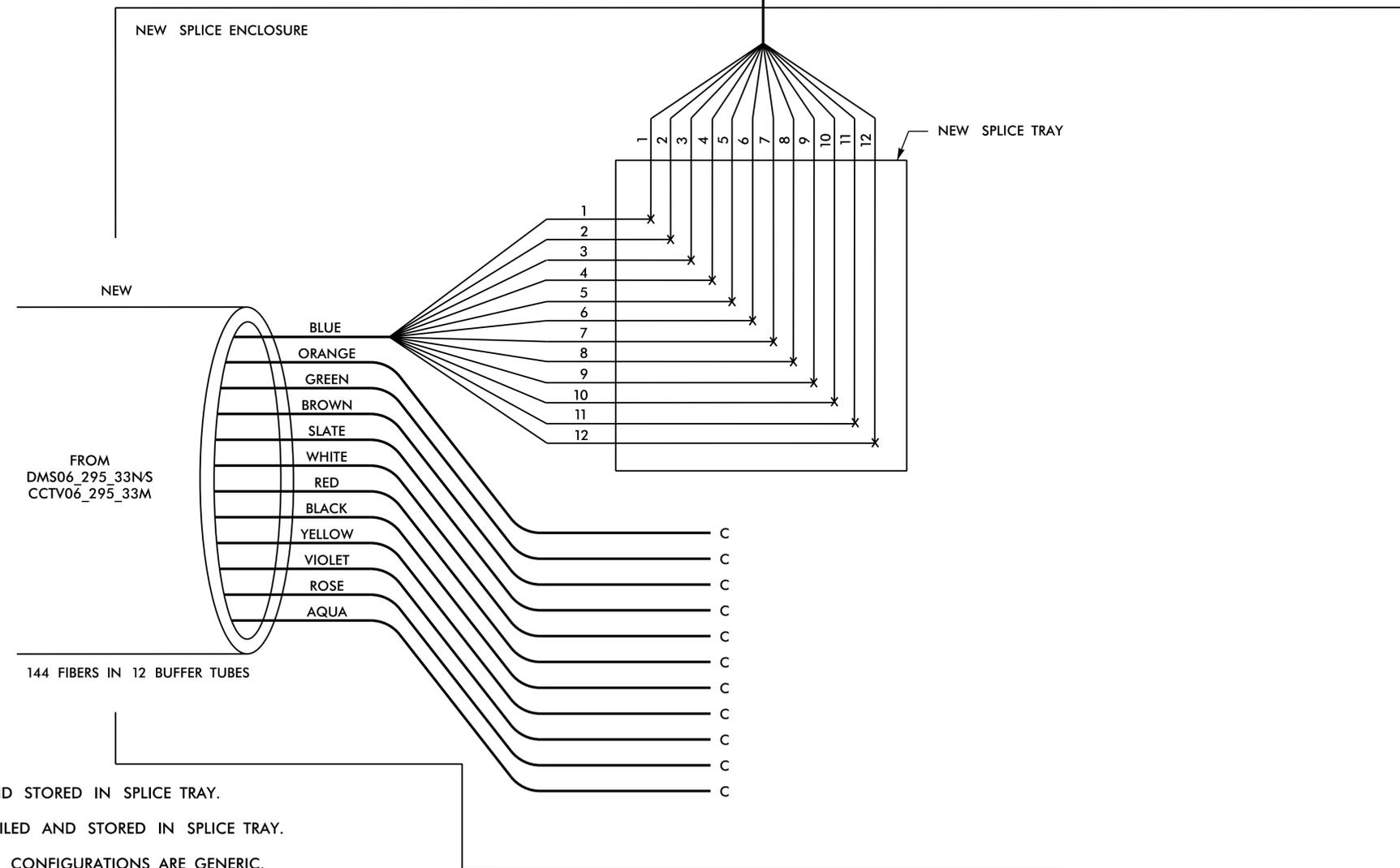
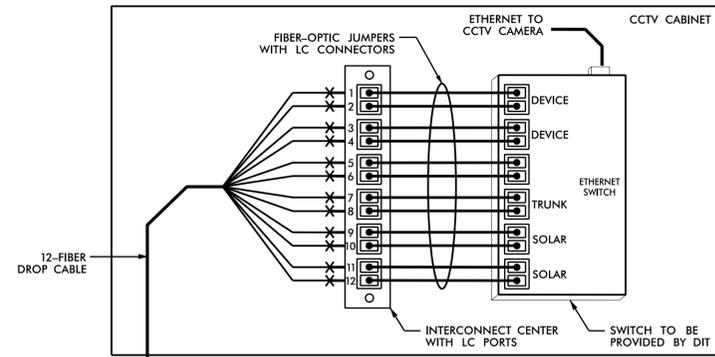
SCALE	REVISIONS	INIT.	DATE
NONE			

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DocuSigned by:
 David L. Jones
 11/10/2025
 CADD File name: U-2519F ITS-117.dgn

CCTV06_295_34N
CCTV LOCATED ON I-295 SB
NEAR US 301 (DUNN RD)

COLOR CODE TIA/EIA 598-C			LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER		
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE		
(3) GREEN	(9) YELLOW	C = CAP AND SEAL		
(4) BROWN	(10) VIOLET	EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING		
(5) SLATE	(11) ROSE	BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR		
(6) WHITE	(12) AQUA			



NOTES:

1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING /ENSURING PROPER TERMINATION.
4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

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

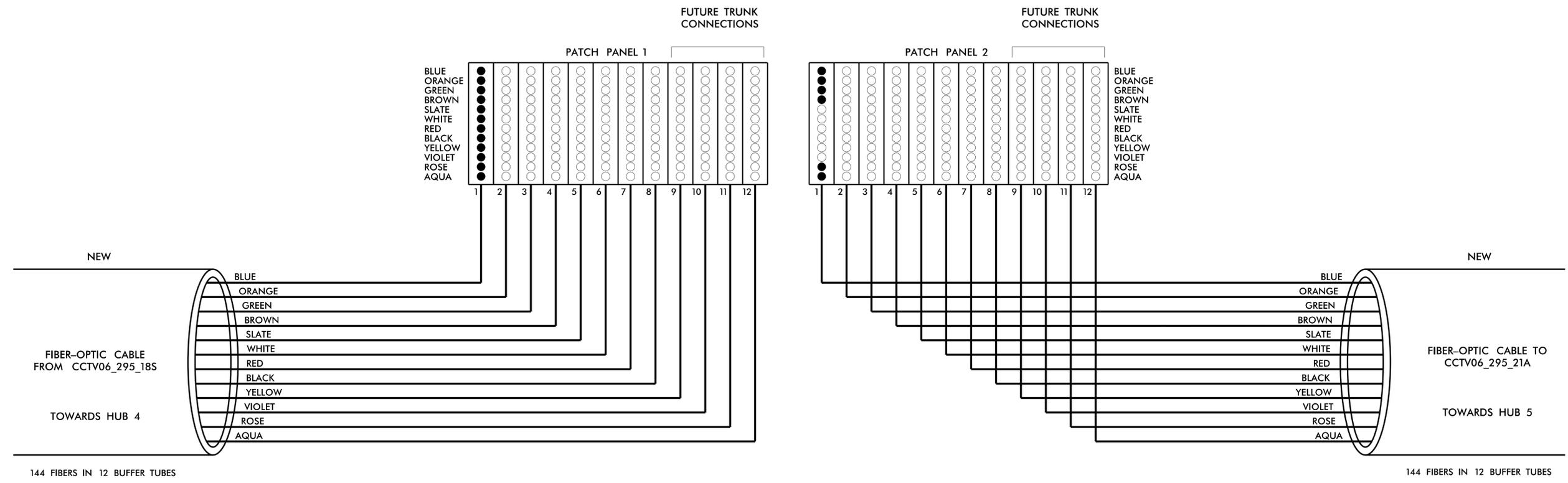
PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY, TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

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Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS		SEAL DAVID L. JONES ENGINEER 11/10/2025
	Division 06 Cumberland Co. Fayetteville	PLAN DATE: January 2025 PREPARED BY: G.D. Berry	
SCALE NONE	REVISIONS	INIT. DATE	SIGNATURE DATE

PROPOSED HUB 4A AT I-295
AND SR 1403 (N REILLY RD)
(SHEET ITS-50)



LEGEND

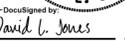
- - FIBER OPTIC PORT WITH SPACE FIBER
- - FIBER OPTIC PORT WITH ALLOCATED FIBER

NOTE:

- CONTRACTOR TO TERMINATE LIKE FIBER COLORS IN BUFFER TUBES TO CORRESPONDING PORT IN PATCH PANEL.
- NCDIT TO FURNISH JUMPERS AND JUMPER LIKE FIBER PORTS TO LIKE FIBER PORTS FROM PATCH PANEL 1 TO PATCH PANEL 2 UNLESS OTHERWISE SHOWN.

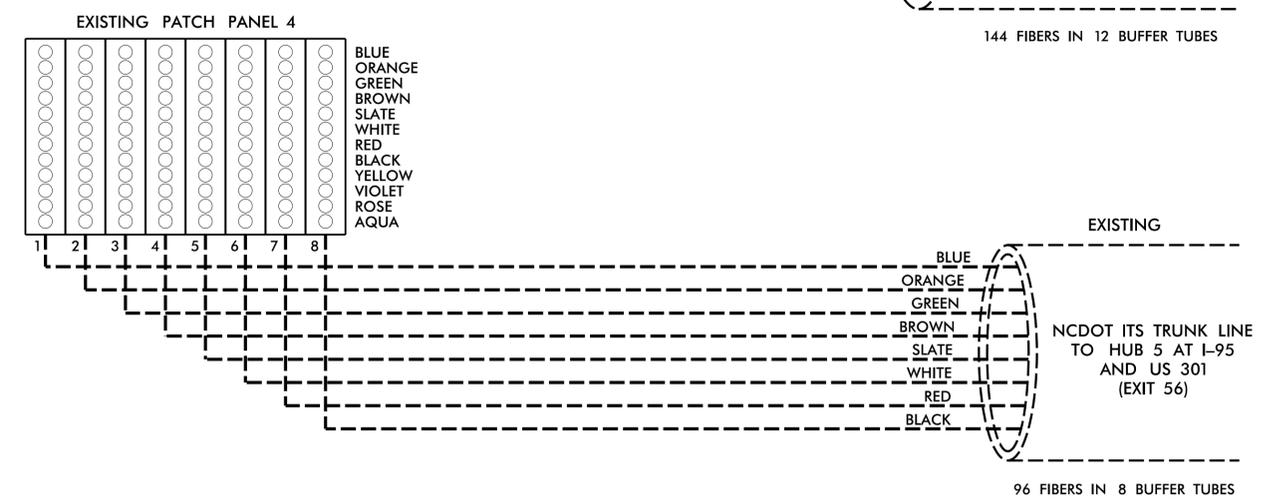
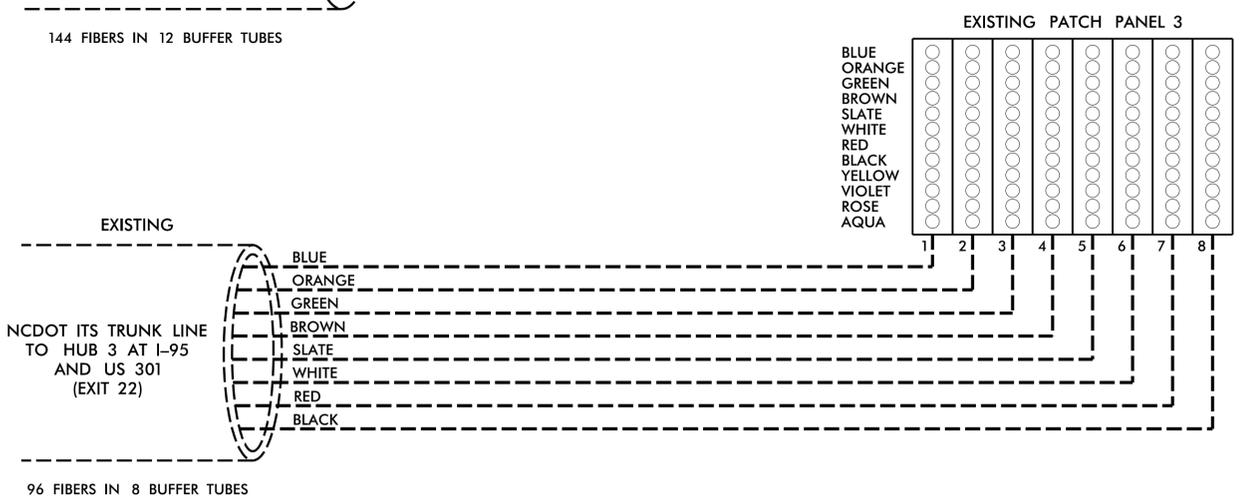
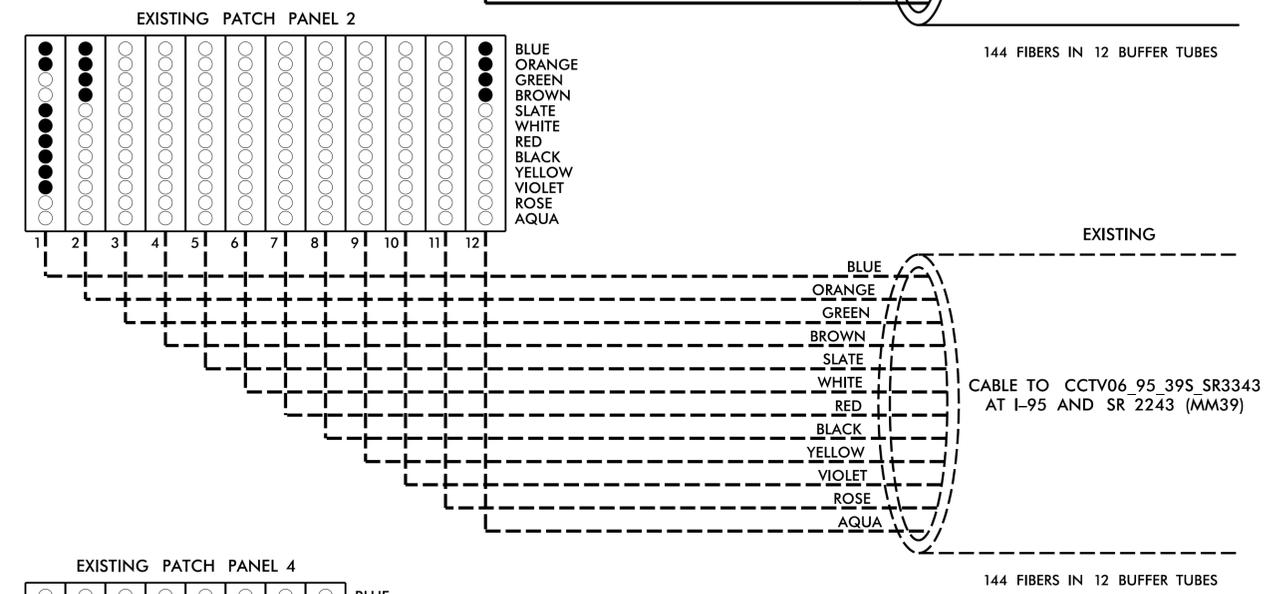
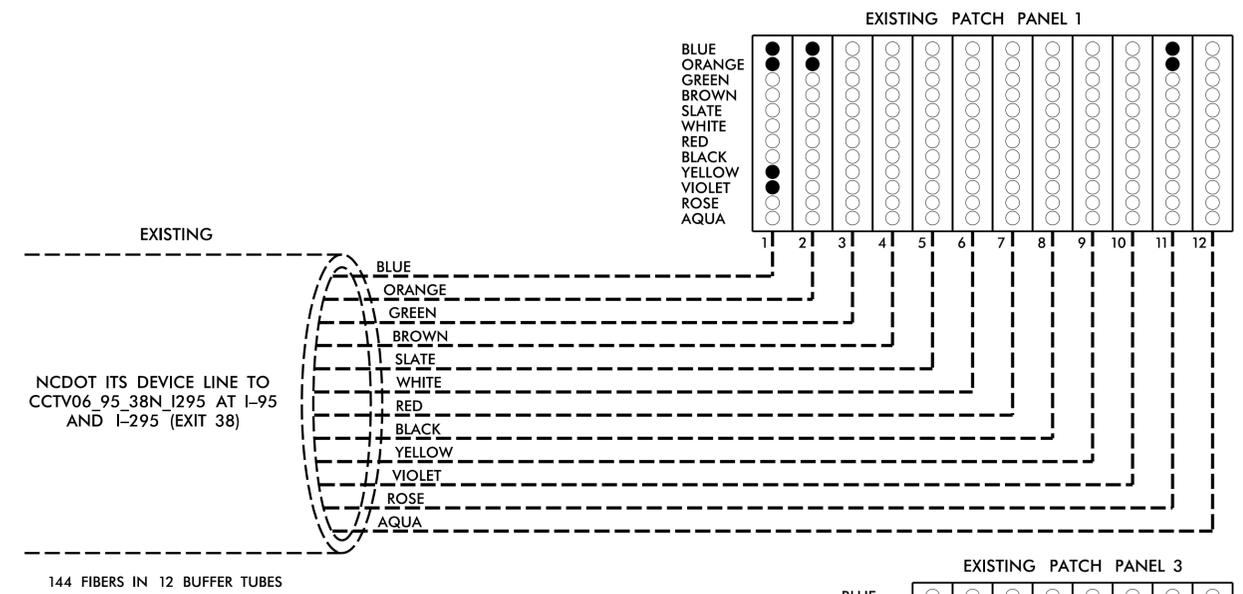
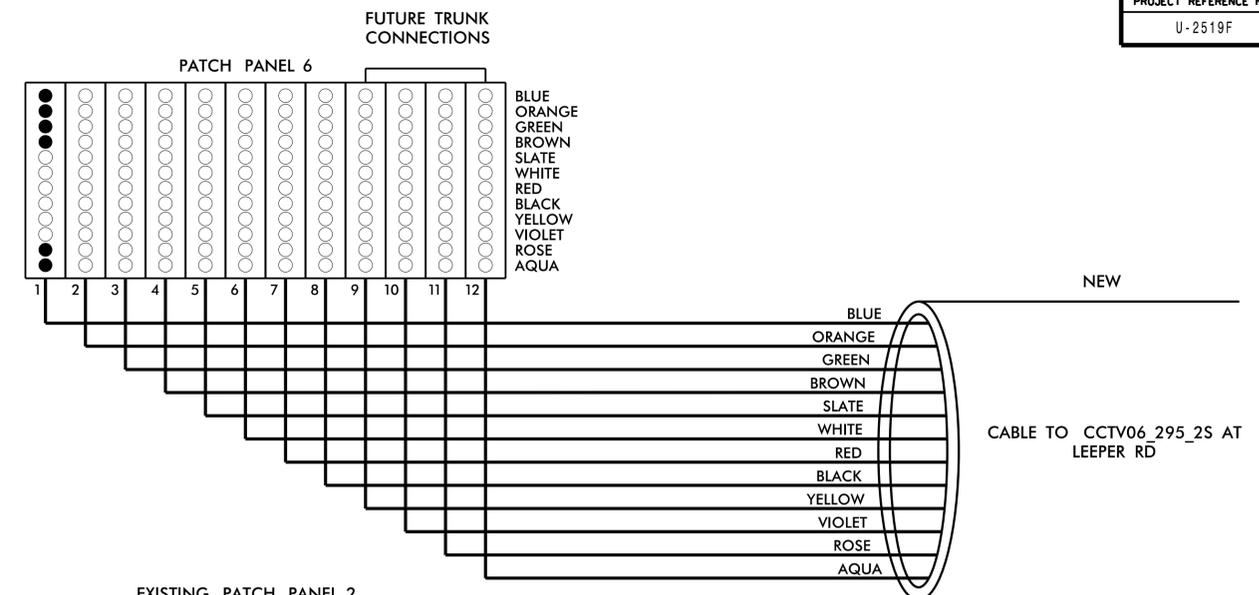
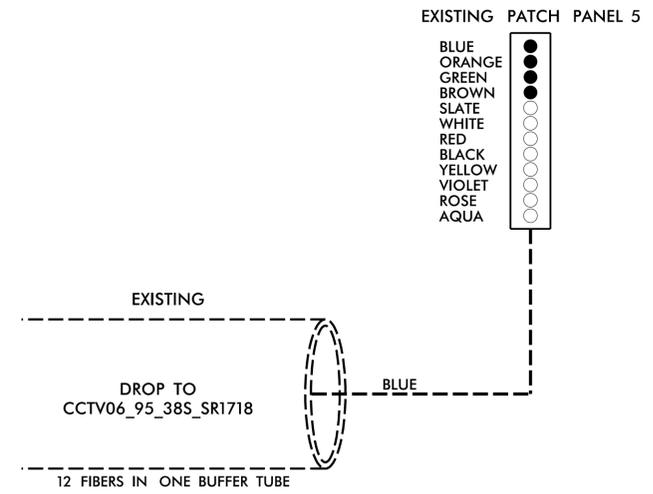
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Plans Prepared for:		I-295		SEAL	
		FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS			
250 N. Greenfield Place, Garner, NC 27529		Division 06	Cumberland Co.	Fayetteville	
SCALE	NONE	PLAN DATE: January 2025	REVIEWED BY: D.L. Jones	PREPARED BY: G.D. Berry	REVIEWED BY: N.R. Simmons
REVISIONS		INIT.	DATE	DocuSigned by:  11/10/2025 SEAL 023535 ENGINEER DAVID L. JONES	
CADD File name: U-2519F ITS-119.dgn					

EXISTING HUB 4 AT I-95 AND I-295/SR 1718 (W GREEN SPRINGS RD) (SHEET ITS-7)

HUB ETHERNET SWITCH, CCTV CABINET CONNECTION, AND ASSOCIATED JUMPERS ARE NOT SHOWN HERE. NCDIT TO COORDINATE ANY NEEDED UPDATES TO FIBER JUMPING.



LEGEND

- - FIBER OPTIC PORT WITH SPACE FIBER
- - FIBER OPTIC PORT WITH ALLOCATED FIBER

NOTE:

- CONTRACTOR TO TERMINATE LIKE FIBER COLORS IN BUFFER TUBES TO CORRESPONDING PORT IN PATCH PANEL.
- NCDIT TO FURNISH JUMPERS AND JUMPER FIBER PORTS FROM PATCH PANEL 6 AS NEEDED.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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<p>Plans Prepared for: I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE SPLICE DETAILS</p>	<p>Division 06 Robeson Co., Fayetteville</p> <p>PLAN DATE: January 2025 REVIEWED BY: D.L. Jones</p> <p>PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons</p>	<p>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 023535 DAVID L. JONES</p>
	<p>SCALE: NONE</p> <p>REVISIONS: _____</p> <p>INIT. DATE</p>	

HUB 4A - I-295 at SR 1403 (N REILLY RD): RACK MOUNTED PATCH PANEL ASSIGNMENTS
NC DOT ITS DEVICE LINE CABLE - PATCH PANEL 1
 To CCTV06_295_18S at I-295 and SR 1403 (Canopy Ln) - Heading towards HUB 5

BUFFER	FIBER	DESC	BUFFER	FIBER	DESC	BUFFER	FIBER	DESC	BUFFER	FIBER	DESC	BUFFER	FIBER	DESC	BUFFER	FIBER	DESC
BLUE	BL	CCTV / DMS	ORANGE	BL		GREEN	BL		BROWN	BL		SLATE	BL		WHITE	BL	
	O	CCTV / DMS		O			O			O			O			O	
	G	CCTV / DMS		G			G			G			G			G	
	BR	CCTV / DMS		BR													
	S	CCTV/DMS Loopback		S			S			S			S			S	
	W	CCTV/DMS Loopback		W			W			W			W			W	
	R	CCTV/DMS Loopback		R			R			R			R			R	
	BK	CCTV/DMS Loopback		BK													
	Y	CCTV Solar		Y			Y			Y			Y			Y	
	V	CCTV Solar		V			V			V			V			V	
	RS	CCTV Solar		RS													
	A	CCTV Solar		A			A			A			A			A	
RED	BL		BLACK	BL		YELLOW	BL		VIOLET	BL		ROSE	BL		AQUA	BL	
	O			O			O			O			O			O	
	G			G			G			G			G			G	
	BR			BR			BR			BR			BR			BR	
	S			S			S			S			S			S	
	W			W			W			W			W			W	
	R			R			R			R			R			R	
	BK			BK			BK			BK			BK			BK	
	Y			Y			Y			Y			Y			Y	
	V			V			V			V			V			V	
	RS			RS			RS			RS			RS			RS	
	A			A			A			A			A			A	

HUB 4A - I-295 at SR 1403 (N REILLY RD): RACK MOUNTED PATCH PANEL ASSIGNMENTS
NC DOT ITS DEVICE LINE CABLE - PATCH PANEL 2
 To CCTV06_295_21A at I-295 and SR 1007 (All American Frwy) - Heading towards HUB 4

BUFFER	FIBER	DESC	BUFFER	FIBER	DESC	BUFFER	FIBER	DESC	BUFFER	FIBER	DESC	BUFFER	FIBER	DESC	BUFFER	FIBER	DESC
BLUE	BL	CCTV / DMS	ORANGE	BL		GREEN	BL		BROWN	BL		SLATE	BL		WHITE	BL	
	O	CCTV / DMS		O			O			O			O			O	
	G	CCTV / DMS		G			G			G			G			G	
	BR	CCTV / DMS		BR													
	S			S			S			S			S			S	
	W			W			W			W			W			W	
	R			R			R			R			R			R	
	BK			BK			BK			BK			BK			BK	
	Y			Y			Y			Y			Y			Y	
	V			V			V			V			V			V	
	RS	CCTV Solar		RS													
	A	CCTV Solar		A			A			A			A			A	
RED	BL		BLACK	BL		YELLOW	BL		VIOLET	BL		ROSE	BL		AQUA	BL	
	O			O			O			O			O			O	
	G			G			G			G			G			G	
	BR			BR			BR			BR			BR			BR	
	S			S			S			S			S			S	
	W			W			W			W			W			W	
	R			R			R			R			R			R	
	BK			BK			BK			BK			BK			BK	
	Y			Y			Y			Y			Y			Y	
	V			V			V			V			V			V	
	RS			RS			RS			RS			RS			RS	
	A			A			A			A			A			A	

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**I-295
 FAYETTEVILLE OUTER LOOP
 FIBER ALLOCATION TABLES**

Division 6 Cumberland County Fayetteville
 PLAN DATE: January 2025 REVIEWED BY: N.R. Simmons
 PREPARED BY: G.D. Berry REVIEWED BY: D.L. Jones



SCALE	INIT.	DATE
NONE		

11/10/2025
 David L. Jones
 SIGNATURE DATE
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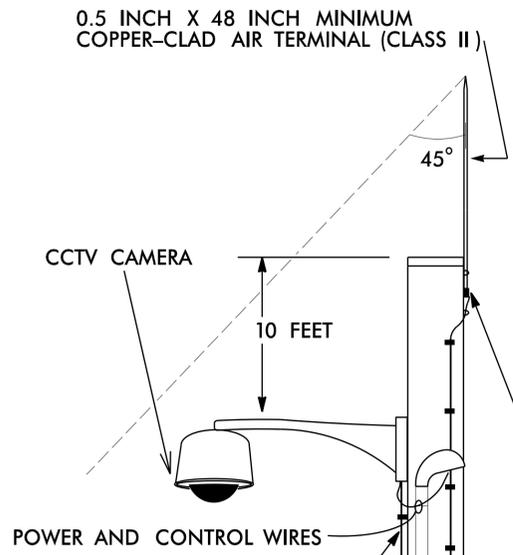
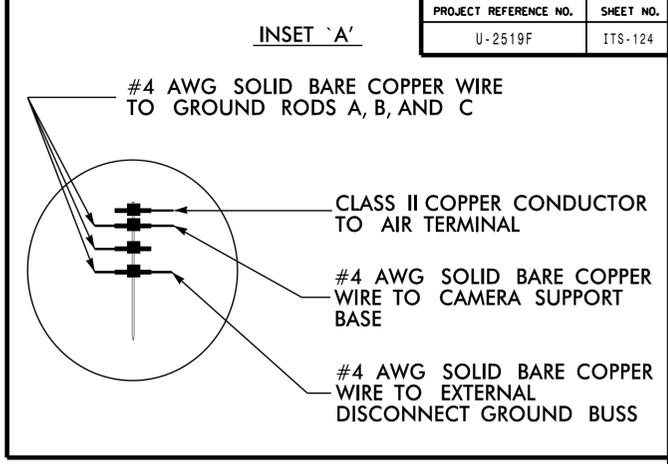
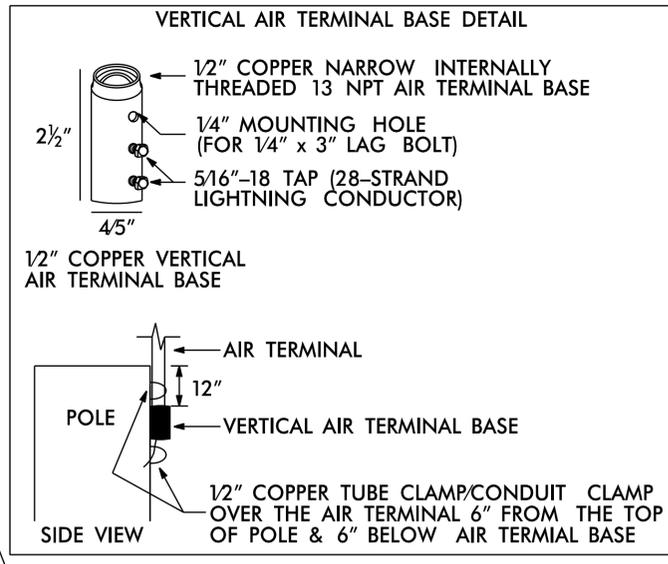
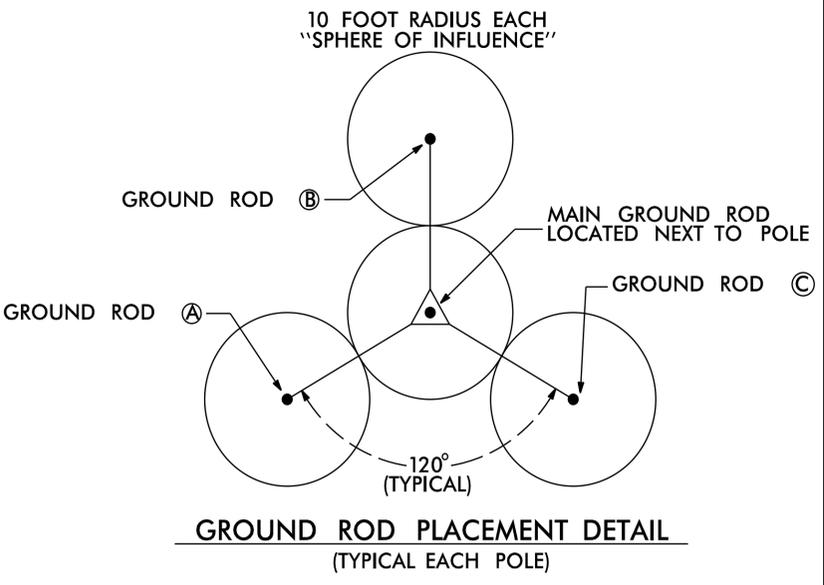
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HUB 4 - I-95 and I-295 / SR 1718 (W GREEN SPRINGS RD): RACK MOUNTED PATCH PANEL ASSIGNMENTS
NCDOT ITS DEVICE LINE CABLE - PATCH PANEL 6
 To CCTV06_295_2S at I-295 and SR 1118 (Parkton Rd) - Heading towards HUB 4A

BUFFER	FIBER	DESC	BUFFER	FIBER	DESC	BUFFER	FIBER	DESC	BUFFER	FIBER	DESC	BUFFER	FIBER	DESC	BUFFER	FIBER	DESC
BLUE	BL	CCTV / DMS	ORANGE	BL		GREEN	BL		BROWN	BL		SLATE	BL		WHITE	BL	
	O	CCTV / DMS		O			O			O							
	G	CCTV / DMS		G			G			G							
	BR	CCTV / DMS		BR			BR			BR							
	S			S			S			S							
	W			W			W			W							
	R			R			R			R							
	BK			BK			BK			BK							
	Y			Y			Y			Y							
	V			V			V			V							
RS	CCTV Solar	RS		RS		RS		RS		RS		RS		RS		RS	
A	CCTV Solar	A		A		A		A		A		A		A		A	
RED	BL		BLACK	BL		YELLOW	BL		VIOLET	BL		ROSE	BL		AQUA	BL	
	O			O			O			O							
	G			G			G			G							
	BR			BR			BR			BR							
	S			S			S			S							
	W			W			W			W							
	R			R			R			R							
	BK			BK			BK			BK							
	Y			Y			Y			Y							
	V			V			V			V							
RS		RS		RS		RS		RS		RS		RS		RS		RS	
A		A		A		A		A		A		A		A		A	

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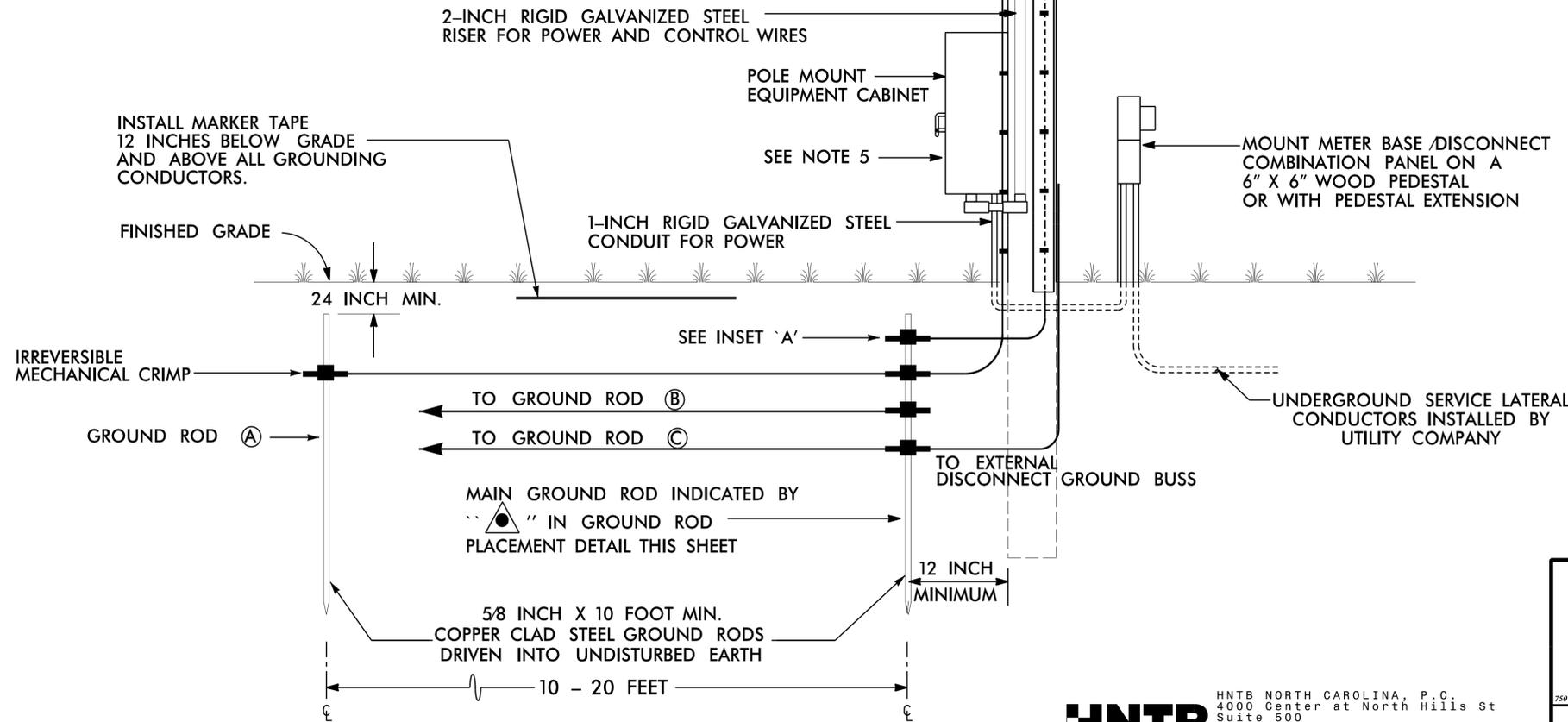
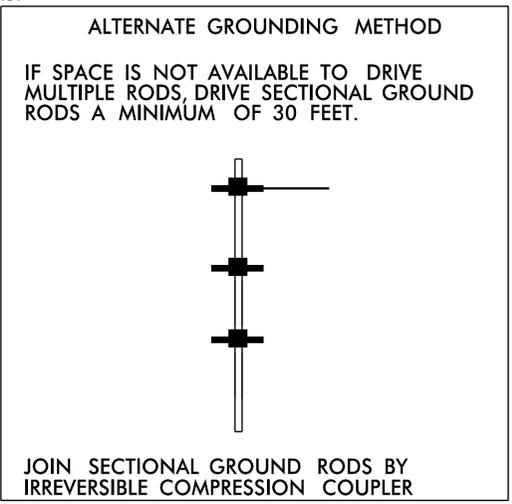
 Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	I-295 FAYETTEVILLE OUTER LOOP FIBER ALLOCATION TABLES		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
	Division 6 Robeson County Fayetteville PLAN DATE: January 2025 REVIEWED BY: N.R. Simmons PREPARED BY: G.D. Berry REVIEWED BY: D.L. Jones	SEAL NORTH CAROLINA PROFESSIONAL SEAL 023535 ENGINEER DAVID L. JONES 11/10/2025 CADD File name: U-2519F ITS-122.dgn	



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. REFER TO STANDARD DRAWING 1700-2 FOR ALTERNATE GROUND ROD INSTALLATION METHOD AS APPROVED BY THE ENGINEER.
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 for:

I-295
FAYETTEVILLE OUTER LOOP
CCTV INSTALLATION WITH
UNDERGROUND ELECTRICAL SERVICE

Division 6 Cumberland County Fayetteville

PLAN DATE: January 2025 REVIEWED BY: N.R. Simmons

PREPARED BY: G.D. Berry REVIEWED BY: D.L. Jones

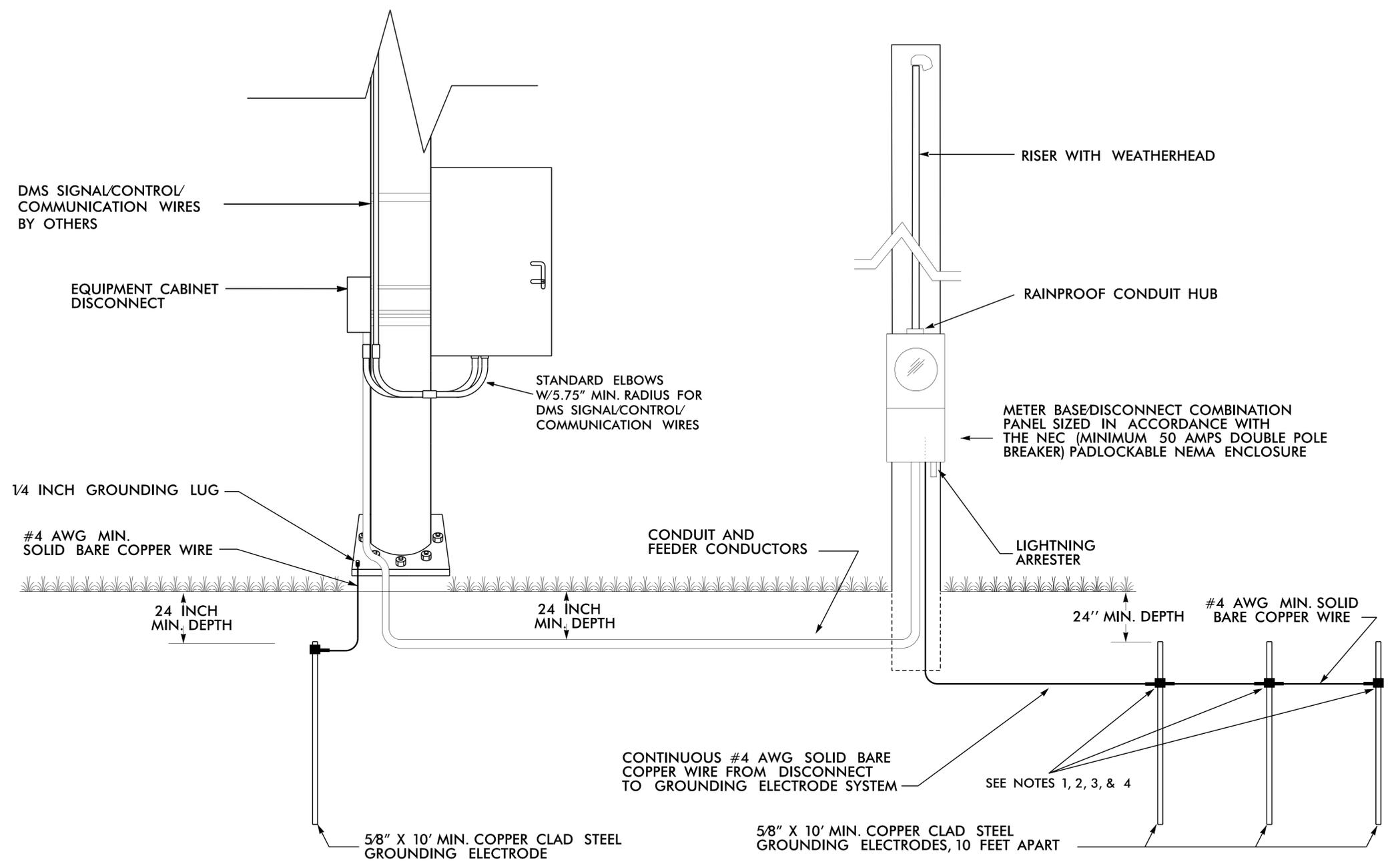
SCALE: NONE

REVISIONS: INIT. DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 023535
DAVID L. JONES
11/10/2025

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NOTES

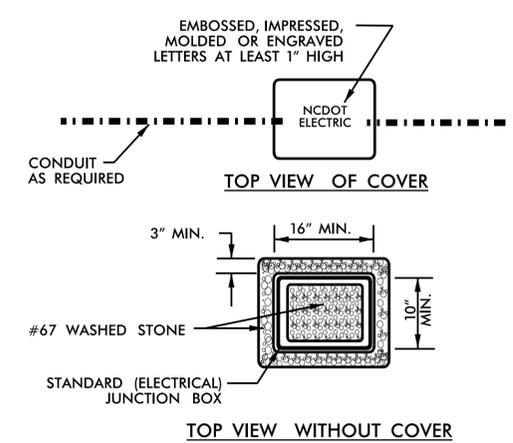
1. INSTALL A MINIMUM OF THREE (3) GROUNDING ELECTRODES SPACED A MINIMUM OF 10 FEET APART. ENSURE THAT EXISTING UNDERGROUND FACILITIES ARE NOT DAMAGED DURING INSTALLATION.
2. TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SHOULD MEASURE TWENTY (20) OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
3. MECHANICALLY CRIMP ALL CONNECTIONS TO GROUND RODS USING AN IRREVERSIBLE COMPRESSION TOOL.
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 CABINET.

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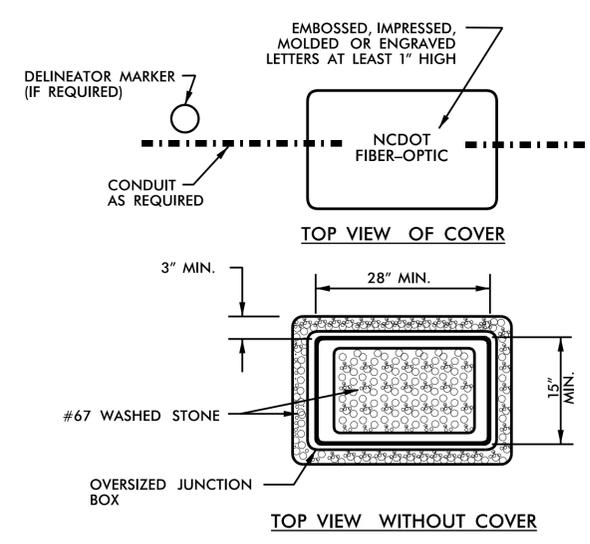
<p>Plans Prepared for:</p>  <p>250 N. Greenfield Place, Garner, NC 27529</p>	<p>I-295 FAYETTEVILLE OUTER LOOP DMS INSTALLATION WITH AERIAL ELECTRICAL SERVICE</p>		<p>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 023535 DAVID L. JONES</p>							
	<p>Division 6 Cumberland County Fayetteville</p> <p>PLAN DATE: January 2025 REVIEWED BY: N.R. Simmons</p> <p>PREPARED BY: G.D. Berry REVIEWED BY: D.L. Jones</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			
NO.	DESCRIPTION	INIT.	DATE							
<p>SCALE</p> <p>NONE</p>	<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>									

NOTE: INSTALL TRUNK LINE CONDUITS IN THE SIDES OF JUNCTION BOXES. DROP CABLES MAY BE INSTALLED THROUGH BOTTOMS OF JUNCTION BOXES IF NEEDED.

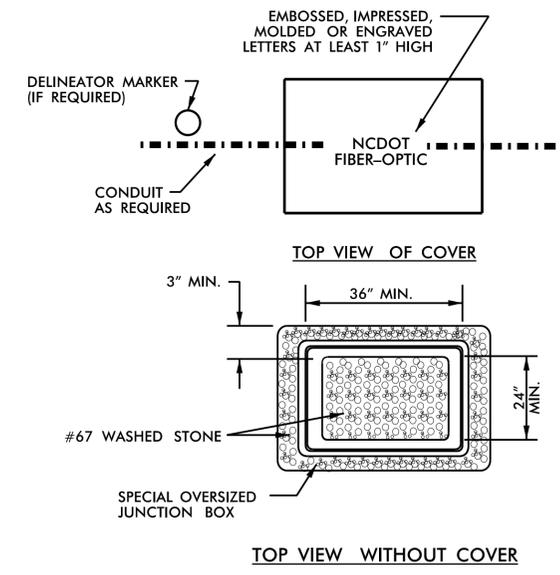
**STANDARD (ELECTRICAL)
JUNCTION BOX**



**OVERSIZED HEAVY DUTY
JUNCTION BOX**

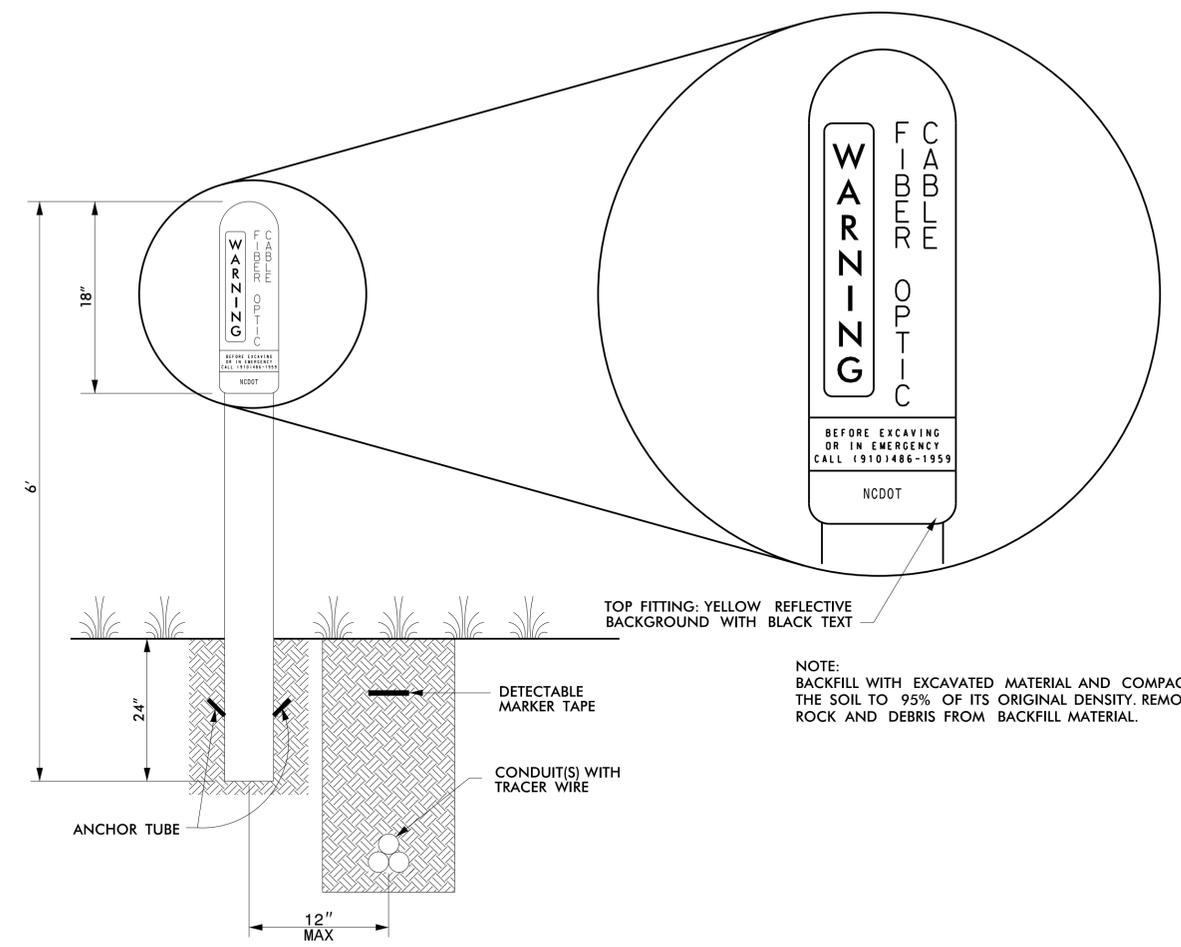
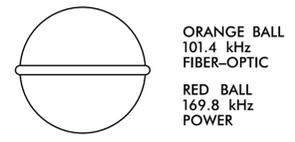


**SPECIAL OVERSIZED HEAVY DUTY
JUNCTION BOX**



ELECTRONIC MARKER BALL

INSTALL ONE (1) ORANGE BALL IN EACH FIBER-OPTIC JUNCTION BOX AND ONE (1) RED BALL IN EACH ELECTRICAL JUNCTION BOX.



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

PVC POST-MOUNTED DELINEATOR MARKER

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<p>Plans Prepared for:</p> <p>250 N. Greenfield Place, Garner, NC 27529</p>	<p>I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE AND CONDUIT TYPICAL DETAILS</p>		<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>							
	<p>Division 6 Cumberland County Fayetteville</p> <p>PLAN DATE: January 2025 REVIEWED BY: N.R. Simmons</p> <p>PREPARED BY: G.D. Berry REVIEWED BY: D.L. Jones</p>	<p>SCALE</p> <p>NONE</p>		<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>INIT.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	INIT.	DATE		
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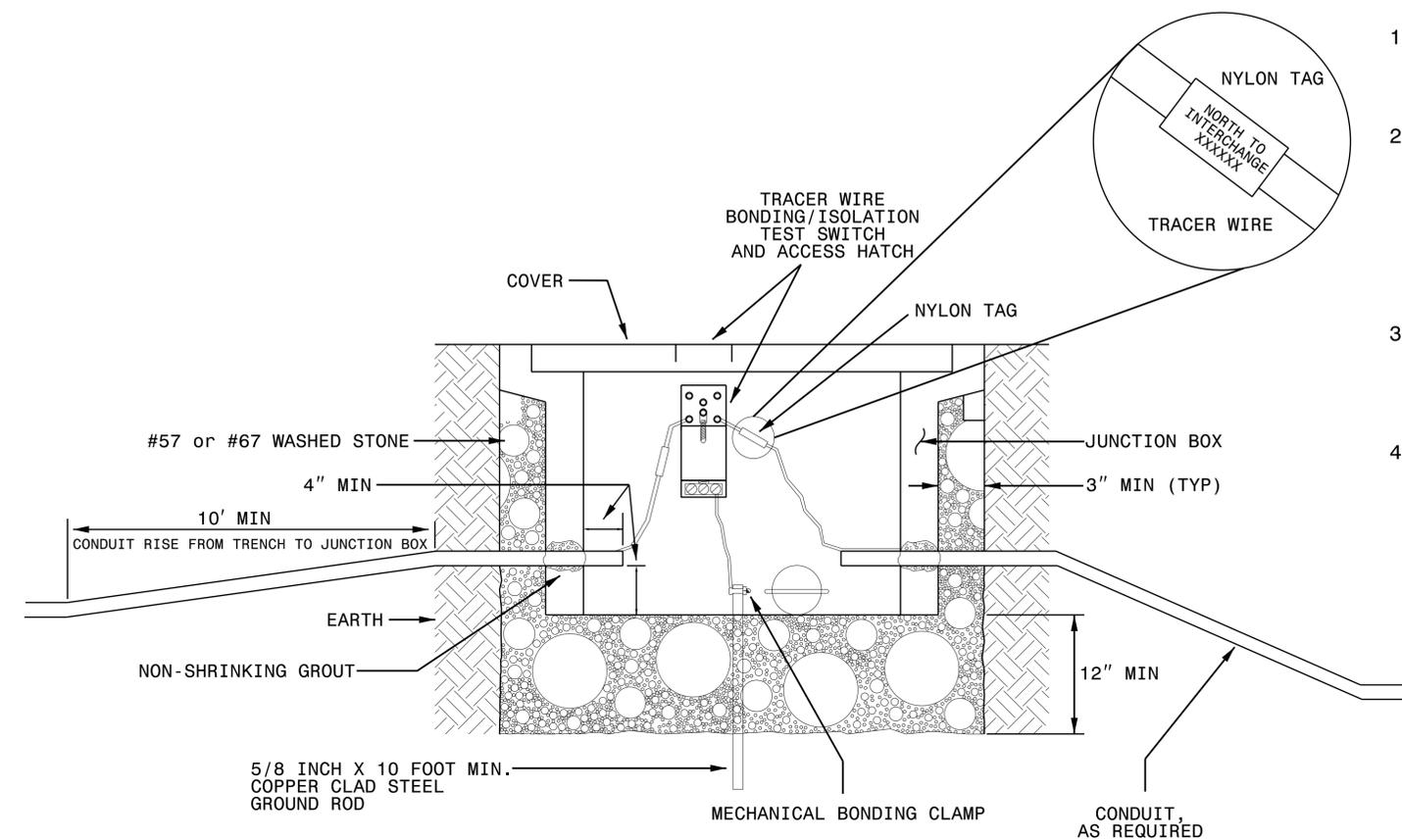
NOTES

- FURNISH "TIER 22" RATED JUNCTION BOXES AND COVERS.
- SECURE COVERS WITH HEX BOLTS.
- BOX OUTSIDE DIMENSIONS:
 - OVERSIZED: 28" (l) x 15" (w) x 22" (d)
 - SPECIAL OVERSIZED: 36" (l) x 24" (w) x 24" (d)
- TEST JUNCTION BOX GROUNDING FOR 20 OHMS OR LESS. DRIVE A SECOND GROUND ROD IF 20 OHMS CANNOT BE ACHIEVED.
- COIL FIVE FEET OF SPARE TRACER WIRE AND GROUND ROD BONDING JUMPER IN EACH JUNCTION BOX.

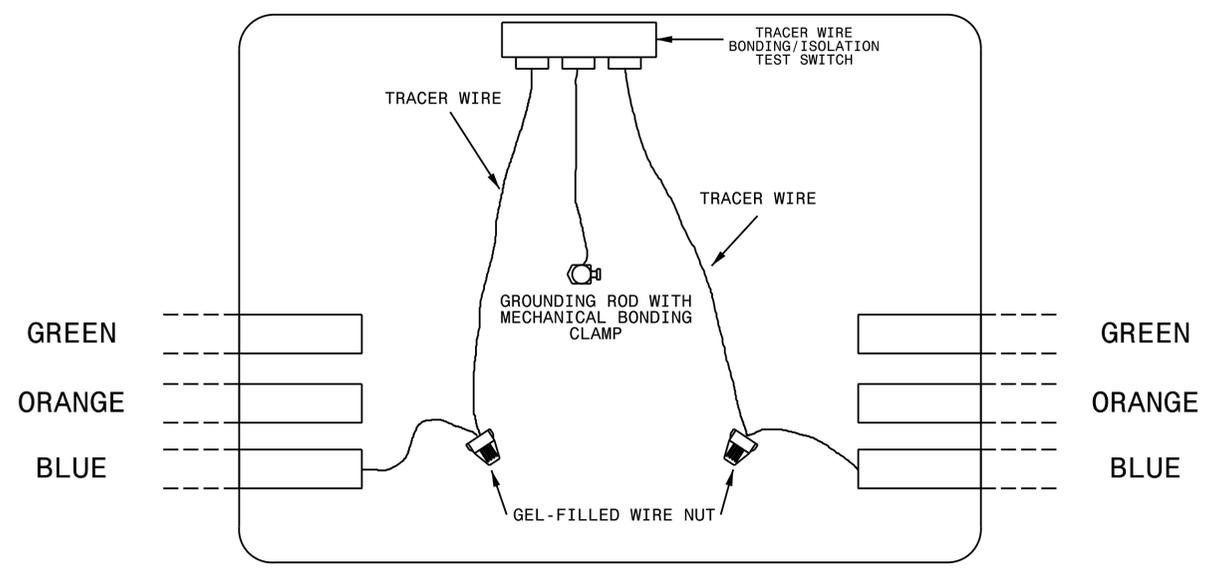
INSTALLATION CROSS-SECTION COMMUNICATIONS JUNCTION BOX

CONDUIT ENTERING JUNCTION BOX (JETTED FIBER INSTALLATION)

- PROVIDE OVERSIZED AND SPECIAL OVERSIZED JUNCTION BOXES WITH MOUSE HOLES, PRECAST KNOCKOUTS OR FIELD DRILL CONDUIT ENTRANCE HOLES.
- FOR ALL OVERSIZED AND SPECIAL OVERSIZED JUNCTION BOXES, ALL CONDUITS SHALL ENTER THROUGH THE SIDEWALL THROUGH THE MOUSE HOLES, PRECAST KNOCKOUTS OR FIELD DRILLED HOLES AND SEALED WITH NON-SHRINKING GROUT. MAINTAIN 4" SEPARATION FROM THE BOTTOM OF THE BOX TO THE CONDUITS. NO CONDUIT SHALL ENTER FROM THE BOTTOM EXCEPT FOR DROP CABLES TO ITS DEVICES.
- LEAVE CONDUITS ENTERING SIDES OF JUNCTION BOX OVERLAPPING INITIALLY FOR JETTING PURPOSES. AFTER FIBER IS INSTALLED CUT CONDUIT BACK TO FOUR INCHES FROM THE JUNCTION BOX SIDEWALL IN ACCORDANCE WITH THE CONDUIT FOR JETTING PROJECT SPECIAL PROVISIONS.
- SEAL ALL CONDUITS AFTER INSTALLATION WITH REUSABLE MECHANICAL DUCT PLUGS. AFTER INSTALLATION OF FIBER CABLE, SEAL CONDUITS WITH A MECHANICAL FIBER/DUCT CONDUIT PLUGS.



TOP VIEW



ELECTRONIC MARKER BALL

ORANGE BALL - 101.4 kHz - FIBER

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Plans Prepared for:		I-295 FAYETTEVILLE OUTER LOOP COMMUNICATIONS CABLE AND CONDUIT JUNCTION BOX DETAILS		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL NORTH CAROLINA PROFESSIONAL SEAL 023535 ENGINEER DAVID L. JONES 11/10/2025 D:\36459402\2024\F0... SIGNATURE DATE CADD File name: U-2519F ITS-128.dgn
250 N. Greenfield Place, Garner, NC 27529		Division 6 Cumberland County Fayetteville	PLAN DATE: January 2025 REVIEWED BY: N.R. Simmons	
SCALE	NONE	PREPARED BY: G.D. Berry	REVIEWED BY: D.L. Jones	
REVISIONS		INIT.	DATE	