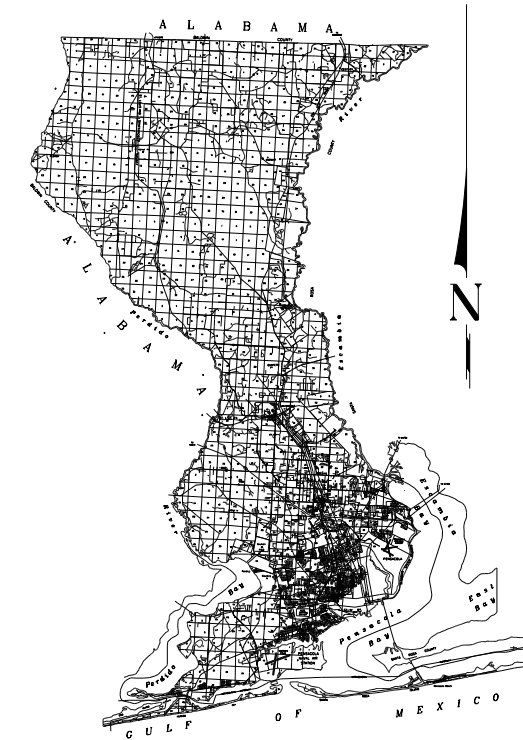


**BOARD OF COUNTY COMMISSIONERS
 ESCAMBIA COUNTY, FLORIDA
 ENGINEERING DEPARTMENT
 CONSTRUCTION MANAGEMENT DIVISION**



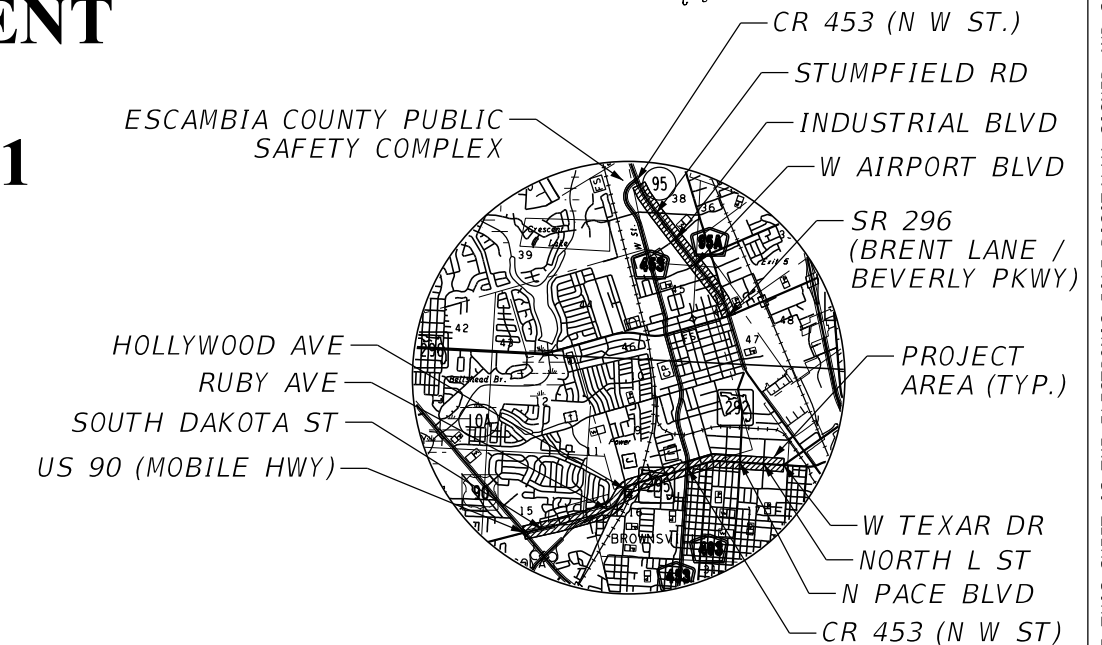
INDEX OF ATMS PLANS

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
IT-1	KEY SHEET
IT-2	SIGNATURE SHEET
IT-3 - IT-9	TABULATION OF QUANTITIES
IT-10	GENERAL NOTES
IT-11	PAY ITEM NOTES AND LEGEND
IT-12 - IT-13	LAYER 2 AND LAYER 3 MFES PERFORMANCE SPECIFICATIONS
IT-14 - IT-16	COMMUNICATION OVERVIEW
IT-17	PROJECT LAYOUT
IT-18 - IT-62	ATMS PLAN
IT-63 - IT-76	SPLICING DIAGRAM
IT-77 - IT-80	MASTER COMMUNICATION HUB CABINET DETAIL
IT-81	19" RACK ASSEMBLY DETAILS FOR LAYER 3 ETHERNET ROUTER
IT-82	19" RACK ASSEMBLY DETAILS FOR UPS AND BATTERIES
IT-83	UNINTERRUPTIBLE POWER SUPPLY DETAIL
IT-84	FIBER OPTIC PULL BOX DETAIL
IT-85	FIBER OPTIC SPLICE BOX DETAIL
IT-86	SIGNAL CABINET FIBER OPTIC DISTRIBUTION PANEL DETAIL
IT-87	ELECTRONIC ROUTE MARKER WIRING GROUND UNIT DETAILS
IT-88	ITS POWER SERVICE ELECT. ONE LINE DIAGRAM
IT-89	TEMPORARY TRAFFIC CONTROL PLAN

**PLANS PROPOSED FOR
 US 29 (PENSACOLA BLVD)
 FROM N W ST TO BRENT LN / BEVERLY PKWY
 SR 727/295 (W FAIRFIELD DR)
 FROM US 90 (MOBILE HWY) TO W TEXAR DR**

**FIBER OPTIC IMPROVEMENT
 ENG 2179
 FDOT FPID 428058-6-54-01**

90% PLANS



PROJECT NO.
PD 25-26.

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE LATEST ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS WHICH REQUIRE COMPLIANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AS MODIFIED THEREIN.

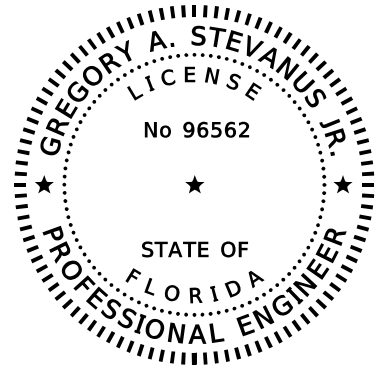
ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION I, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

COMMISSIONERS

- | | |
|-----------------------|--------------------------------------|
| DISTRICT ONE | STEVE STROBERGER |
| DISTRICT TWO | MIKE KOHLER (CHAIRMAN) |
| DISTRICT THREE | LUMON MAY |
| DISTRICT FOUR | ASHLEE HOFBERGER (VICE CHAIR) |
| DISTRICT FIVE | STEVEN BARRY |

VICINITY MAP

PROJECT MANAGER: CORY ROBERTS JR.	
SECTION / TOWNSHIP / RANGE: 15, 16, 17, 36, 38, 47 / 1S, 2S / 30W	DISTRICT: 3
PROJECT ENGINEER: GREGORY A. STEVANUS JR.	REG FLA ENG NO: 96562
SIGNATURE: (SEE EOR SEAL)	DATE: OCTOBER 2025



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THIS SEAL

SIGNATURE MUST BE VERIFIED ON
ANY ELECTRONIC COPIES.

HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FLORIDA 32502-5945
GREGORY A. STEVANUS JR., P.E. NO. 96562

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
IT-1	KEY SHEET
IT-2	SIGNATURE SHEET
IT-3 - IT-9	TABULATION OF QUANTITIES
IT-10	GENERAL NOTES
IT-11	PAY ITEM NOTES AND LEGEND
IT-12 - IT-13	LAYER 2 AND LAYER 3 MFES PERFORMANCE SPECIFICATIONS
IT-14 - IT-16	COMMUNICATION OVERVIEW
IT-17	PROJECT LAYOUT
IT-18 - IT-62	ATMS PLAN
IT-63 - IT-76	SPLICING DIAGRAM
IT-77 - IT-80	MASTER COMMUNICATION HUB CABINET DETAIL
IT-81	19" RACK ASSEMBLY DETAILS FOR LAYER 3 ETHERNET ROUTER
IT-82	19" RACK ASSEMBLY DETAILS FOR UPS AND BATTERIES
IT-83	UNINTERRUPTIBLE POWER SUPPLY DETAIL
IT-84	FIBER OPTIC PULL BOX DETAIL
IT-85	FIBER OPTIC SPLICE BOX DETAIL
IT-86	SIGNAL CABINET FIBER OPTIC DISTRIBUTION PANEL DETAIL
IT-87	ELECTRONIC ROUTE MARKER WIRING GROUND UNIT DETAILS
IT-88	ITS POWER SERVICE ELECT. ONE LINE DIAGRAM
IT-89	TEMPORARY TRAFFIC CONTROL PLAN

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

SIGNATURE SHEET

SHEET
NO.

IT-2

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			IT-18		IT-19		IT-20		IT-21		IT-22		IT-23		IT-24		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
101-1	MOBILIZATION	LS																		
102-1	MAINTENANCE OF TRAFFIC	LS																		
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY																		
550-10-221	FENCING, TYPE B, 5.1-6.0', W/ BARB WIRE ATTMT	LF																		
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF					40				10						611			
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	390		569		530		493		563		561		560		3105			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF									130						741			
633-1-124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF	755		619		720		543		763		611		660		4060			
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	144								4						148			
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA									1						1			
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	12								1						13			
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA									1						1			
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA									1						1			
633-3-17	FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA									1						1			
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA	1														1			
633-4-16	TELEPHONE CABLE, REMOVE	LF																		
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1		1		3		1				1		2		8			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA									1						1			
635-2-14	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA																		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA																		
676-2-146	ITS CABINET, FURNISH & INSTALL, BASE MOUNT WITH SUNSHIELD, 340 66" H x 44" W x 26" D	EA																		
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA									1						1			
684-7-1	MANAGED HUB ETHERNET SWITCH, FURNISH & INSTALL	EA																		
685-1-12	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, ONLINE/DOUBLE CONVERSION	EA																		
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA																		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS



TABULATION OF QUANTITIES (1)

SHEET NO.
IT-3

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			IT-25		IT-26		IT-27		IT-28		IT-29		IT-30		IT-31		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
101-1	MOBILIZATION	LS																		
102-1	MAINTENANCE OF TRAFFIC	LS																		
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY																		
550-10-221	FENCING, TYPE B, 5.1-6.0', W/ BARB WIRE ATTMT	LF																		
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	21				112										133			
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	561		561		455		745		563		561		559		4005			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	205				313									518				
633-1-124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF	761		611		767		811		613		661		609		4833			
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	4				4									8				
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	1				1									2				
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	1				1									2				
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA	1				1									2				
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA	1				1									2				
633-3-17	FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA	1				1									2				
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA																		
633-4-16	TELEPHONE CABLE, REMOVE	LF																		
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1		1		4		1		1		2		1		11			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA	1						1							2				
635-2-14	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA																		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA																		
676-2-146	ITS CABINET, FURNISH & INSTALL, BASE MOUNT WITH SUNSHIELD, 340 66" H x 44" W x 26" D	EA																		
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1						1							2				
684-7-1	MANAGED HUB ETHERNET SWITCH, FURNISH & INSTALL	EA																		
685-1-12	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, ONLINE/DOUBLE CONVERSION	EA																		
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA																		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS DATE DESCRIPTION		 GREGORY A. STEVANUS JR. P.E. LICENSE NUMBER 96562 HDR ENGINEERING, INC. 25 WEST CEDAR STREET, SUITE 200 PENSACOLA, FL 32502-5945	 ESCAMBIA COUNTY ENGINEERING DEPARTMENT US 29 / PENSACOLA BLVD AND SR 727/295 FAIRFIELD DR FIBER OPTIC IMPROVEMENTS	TABULATION OF QUANTITIES (2)	SHEET NO. IT-4

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			IT-32		IT-33		IT-34		IT-35		IT-36		IT-37		IT-38		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
101-1	MOBILIZATION	LS																		
102-1	MAINTENANCE OF TRAFFIC	LS																		
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY							2								2			
550-10-221	FENCING, TYPE B, 5.1-6.0', W/ BARB WIRE ATTMT	LF							49								49			
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF						41	46								87			
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	557		557		61	510		545		598		561		3389				
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF					188	216				155				559				
633-1-124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF	607		607		344	790		595		763		661		4367				
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA					4	148				4				156				
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA						144								144				
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA					1	2				1				4				
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA					1	25				1				27				
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA					1	13				1				15				
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA					1	13				1				15				
633-3-17	FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA					1	2				1				4				
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA																		
633-4-16	TELEPHONE CABLE, REMOVE	LF																		
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1		1		2	1		1				2		8				
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA					1	2				1				4				
635-2-14	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA						2								2				
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS							1							1				
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF						130								130				
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA						1								1				
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA							1							1				
676-2-146	ITS CABINET, FURNISH & INSTALL, BASE MOUNT WITH SUNSHIELD, 340 66" H x 44" W x 26" D	EA							1							1				
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA					1	1				1				3				
684-7-1	MANAGED HUB ETHERNET SWITCH, FURNISH & INSTALL	EA						1								1				
685-1-12	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, ONLINE/DOUBLE CONVERSION	EA						1								1				
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA						1								1				

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

TABULATION OF QUANTITIES (3)

SHEET NO.

IT-5

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			IT-39		IT-40		IT-41		IT-42		IT-43		IT-44		IT-45		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
101-1	MOBILIZATION	LS																		
102-1	MAINTENANCE OF TRAFFIC	LS																		
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY																		
550-10-221	FENCING, TYPE B, 5.1-6.0', W/ BARB WIRE ATTMT	LF																		
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF																		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	561		561		560		558		581		552		562		3935			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF									206					206				
633-1-124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF	611		611		610		608		805		602		612		4459			
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA									4					4				
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA									1					1				
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA									1					1				
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA									1					1				
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA									1					1				
633-3-17	FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA									1					1				
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA																		
633-4-16	TELEPHONE CABLE, REMOVE	LF									50					50				
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1		1		1		1		2		1		1		8			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA									1					1				
635-2-14	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA																		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA																		
676-2-146	ITS CABINET, FURNISH & INSTALL, BASE MOUNT WITH SUNSHIELD, 340 66" H x 44" W x 26" D	EA																		
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA									1					1				
684-7-1	MANAGED HUB ETHERNET SWITCH, FURNISH & INSTALL	EA																		
685-1-12	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, ONLINE/DOUBLE CONVERSION	EA																		
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA																		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

TABULATION OF QUANTITIES (4)

SHEET NO.
IT-6

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			IT-46		IT-47		IT-48		IT-49		IT-50		IT-51		IT-52		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
101-1	MOBILIZATION	LS																		
102-1	MAINTENANCE OF TRAFFIC	LS																		
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY																		
550-10-221	FENCING, TYPE B, 5.1-6.0', W/ BARB WIRE ATTMT	LF																		
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF																		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	608		576		563		562		561		561		642		4073			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	140												258		398			
633-1-124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF	788		676		613		662		611		611		811		4772			
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	4												4		8			
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	1												1		2			
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	1												1		2			
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA	1												1		2			
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA	1												1		2			
633-3-17	FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA	1												1		2			
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA																		
633-4-16	TELEPHONE CABLE, REMOVE	LF																		
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA			2		1		2		1		1		2		9			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA	1												1		2			
635-2-14	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA																		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA																		
676-2-146	ITS CABINET, FURNISH & INSTALL, BASE MOUNT WITH SUNSHIELD, 340 66" H x 44" W x 26" D	EA																		
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1												1		2			
684-7-1	MANAGED HUB ETHERNET SWITCH, FURNISH & INSTALL	EA																		
685-1-12	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, ONLINE/DOUBLE CONVERSION	EA																		
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA																		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

TABULATION OF QUANTITIES (5)

SHEET NO.
IT-7

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			IT-53		IT-54		IT-55		IT-56		IT-57		IT-58		IT-59		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
101-1	MOBILIZATION	LS																		
102-1	MAINTENANCE OF TRAFFIC	LS																		
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY																		
550-10-221	FENCING, TYPE B, 5.1-6.0', W/ BARB WIRE ATTMT	LF																		
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF																		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	561		570		575		566		587		561		498		3918			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF									200					200				
633-1-124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF	611		620		625		766		762		611		548		4543			
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA									4					4				
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA									1					1				
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA									1					1				
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA									1					1				
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA									1					1				
633-3-17	FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA									1					1				
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA																		
633-4-16	TELEPHONE CABLE, REMOVE	LF									50					50				
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1		1		1		4		1		1		1		10			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA									1					1				
635-2-14	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA																		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA																		
676-2-146	ITS CABINET, FURNISH & INSTALL, BASE MOUNT WITH SUNSHIELD, 340 66" H x 44" W x 26" D	EA																		
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA									1					1				
684-7-1	MANAGED HUB ETHERNET SWITCH, FURNISH & INSTALL	EA																		
685-1-12	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, ONLINE/DOUBLE CONVERSION	EA																		
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA																		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

TABULATION OF QUANTITIES (6)

SHEET NO.
IT-8

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			IT-60		IT-61		IT-62										PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
101-1	MOBILIZATION	LS																	1	
102-1	MAINTENANCE OF TRAFFIC	LS																	1	
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY						2									2		4	
550-10-221	FENCING, TYPE B, 5.1-6.0', W/ BARB WIRE ATTMT	LF																	49	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF																	831	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	683		564		192										1439		23864	
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	293				100										393		3015	
633-1-124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF	766		664		392										1822		28856	
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	4				142										146		474	
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																	144	
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	1				1										2		13	
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	1				12										13		59	
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA	1														1		23	
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA	1														1		23	
633-3-17	FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA	1														1		12	
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA																	1	
633-4-16	TELEPHONE CABLE, REMOVE	LF	50														50		150	
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1		2												3		57	
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA	1				1										2		13	
635-2-14	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA																	2	
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																	1	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																	130	
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																	1	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA																	1	
676-2-146	ITS CABINET, FURNISH & INSTALL, BASE MOUNT WITH SUNSHIELD, 340 66" H x 44" W x 26" D	EA																	1	
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1														1		11	
684-7-1	MANAGED HUB ETHERNET SWITCH, FURNISH & INSTALL	EA																	1	
685-1-12	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, ONLINE/DOUBLE CONVERSION	EA																	1	
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA																	1	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

TABULATION OF QUANTITIES (7)

SHEET NO.
IT-9

ATMS PROJECT NOTES

1. THE BASE MAPPING DEPICTED ON ALL PLAN SHEETS WAS OBTAINED FROM AERIAL PHOTOGRAPHY. THEREFORE, THE ACCURACY OF THE BASE MAPPING IS NOT THAT OF SURVEY MAPPING TYPICALLY USED WITH ROADWAY DESIGN PROJECTS AND SHOULD ONLY BE RELIED UPON FOR ESTABLISHING GENERAL LOCATIONS. THE CONTRACTOR SHALL IDENTIFY THE RIGHT-OF-WAY FOR THE LOCATIONS OF ALL ITS INFRASTRUCTURE AND EQUIPMENT.
2. CONTACT THE ENGINEER, IN CONJUNCTION WITH THE COUNTY BEFORE STARTING WORK.
3. ONE WEEK PRIOR TO THE BEGINNING OF THE ATMS INSTALLATION, THE CONTRACTOR SHALL NOTIFY:
 ESCAMBIA COUNTY ENGINEERING DEPARTMENT - CONSTRUCTION MANAGEMENT DIVISION
 CORY ROBERTS JR.
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505
 PHONE: 850-417-4853

 ESCAMBIA COUNTY ENGINEERING DEPARTMENT - TRANSPORTATION AND TRAFFIC OPERATIONS DIVISION
 JIM HAGON
 3363 WEST PARK PLACE
 PENSACOLA, FLORIDA 32505
 PHONE: 850-516-6590
4. PRIOR TO ORDERING MATERIALS, THE CONTRACTOR SHALL CONTACT THE COUNTY AND VERIFY CURRENT BUFFER TUBES TO BE USED FOR SPLICING FIBER OPTIC STRANDS.
5. DELIVER THREE SETS OF RECORD DRAWINGS, TEST RECORDS FOR ALL FIBER, SUCH AS OTDR REPORTS AND ONE COMPACT DISC OF RECORD DRAWINGS TO THE ESCAMBIA COUNTY ENGINEERING DEPARTMENT, AT 3363 WEST PARK PLACE PENSACOLA, FLORIDA 32505. RECORD DRAWINGS MUST BE DELIVERED TO THE COUNTY 48 HOURS PRIOR TO SCHEDULING THE FINAL INSPECTION.
6. UPON PASSING THE FINAL INSPECTION, THE CONTRACTOR SHALL SEND A WRITTEN REQUEST TO THE COUNTY TO TRANSFER MAINTENANCE FROM THE CONTRACTOR TO ESCAMBIA COUNTY. ESCAMBIA COUNTY WILL RESPOND WITHIN 5 WORKING DAYS TO ESTABLISH A TIME TABLE FOR THE TRANSFER OF MAINTENANCE RESPONSIBILITY.
7. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR, VIA SUNSHINE STATE ONE CALL OF FLORIDA, INC AT 811 OR 1-800-432-4770, IN COORDINATION WITH UNDERGROUND AND OVERHEAD UTILITY OWNERS. A MINIMUM OF 2 FULL BUSINESS DAYS PRIOR TO DIGGING IS REQUIRED.
8. HAND DIG THE FIRST 48 INCHES OF THE HOLE WHERE NEW PULL BOXES OR CONDUIT RUNS ARE IN CLOSE PROXIMITY TO UTILITIES.
9. ALL MATERIALS, EQUIPMENT, AND OTHER CONTRACTOR SUPPLIED ITEMS SHALL BE INSTALLED AND MAINTAINED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS, UNLESS SPECIFICALLY DIRECTED OTHERWISE BY THE ENGINEER.
10. ALL ELECTRICAL WIRING SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.
11. GROUNDING: ALL COSTS FOR GROUNDING SHALL BE INCLUDED IN THE COST OF THE ITEM BEING GROUNDED. ALL GROUND ROD ASSEMBLIES FOR POLES, SERVICES, CABINETS, AND OTHER RELATED EQUIPMENT SHALL BE BONDED TOGETHER TO FORM AN INTEGRATED GROUNDING SYSTEM USING #6 AWG THHN COPPER WIRE. THE UPPER END OF ALL GROUND RODS SHALL BE 18 INCHES BELOW GROUND ELEVATION. MARK GROUND ROD LOCATION WITH PERMANENT MARKER SUCH AS AN EPOXIED STICKER LOCATED ON THE NEAREST CURB, AND PROVIDE AS-BUILT DRAWINGS WITH THE LOCATION OF GROUND RODS MARKED. GROUNDING CONDUCTOR MUST BE #6 OR LARGER INSULATED COPPER.

 CONNECTING DEVICES SHALL BE NON-CORROSIVE SPLIT BOLTS, CLAMPS, PRESSURE CONNECTORS, OR OTHER APPROVED MEANS TO ENSURE A POSITIVE CONNECTION.

 GROUND RESISTANCE TESTER, OR OTHER APPROVED MEANS WILL BE USED TO ACQUIRE THE GROUND ROD RESISTANCE. THE ENGINEER, OR A REPRESENTATIVE OF THE ENGINEER FROM THE COUNTY SHALL BE PRESENT DURING THE TEST.
12. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY DIRECTIONAL BORING OR TRENCHING.
13. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW FOR ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED. THE CONTRACTOR SHALL FURNISH COPIES OF ALL DRAWINGS, SCHEDULES AND COMPLETE DESCRIPTIVE AND TECHNICAL DATA ON ALL ITEMS TO THE ENGINEER OF RECORD.
14. THE ACCEPTANCE OF ANY SUBMITTED DATA FOR MATERIALS, EQUIPMENT, APPARATUS, DEVICES, ARRANGEMENTS AND/OR LAYOUTS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PLACING SAME AND PROPER DIMENSIONS, CAPACITIES, SIZES, QUANTITY AND INSTALLATIONS DETAILS TO EFFICIENTLY PERFORM THE REQUIREMENTS AND INTENT OF THE CONTRACT. SUCH ACCEPTANCE SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OF ANY SORT ON THE SUBMITTAL DATA.
15. RETURN ALL DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS WITHIN 72 HOURS OF THE CONSTRUCTION ACTIVITY, INCLUDING BUT NOT LIMITED TO: RESTORATION OF GRADE; REMOVAL OF CONSTRUCTION TRASH; REPLACEMENT OF SIDEWALK; REPLACEMENT OF PAVEMENT; RESTORATION OF DRIVEWAYS; RESTORATION OF LANDSCAPE IRRIGATION, ETC. THE CONTRACTOR SHALL VERIFY THE LOCATION AND FUNCTION OF EXISTING IRRIGATION LINES PRIOR TO INITIALIZING CONSTRUCTION.
16. INSTALL ALL PROJECT INFRASTRUCTURE AND FIELD ELEMENTS WITHIN THE RIGHT-OF-WAY.
17. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. OVERALL CLEANUP SHALL BE ACCOMPLISHED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR MOBILIZATION.

 PRIOR TO CLAIMING OWNERSHIP OF ANY REMOVED MATERIALS, THE CONTRACTOR SHALL CONTACT THE COUNTY.
18. ALL AREAS OF EXPOSED EARTH RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE SODDED AS DIRECTED BY THE COUNTY. SEEDING AND MULCHING SHALL BE APPLIED ONLY WHERE SPECIFICALLY CALLED FOR IN THE PLANS AND SPECIFICATIONS OR WHERE DIRECTED BY THE COUNTY.

19. PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAILBOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEMS DUE TO THE CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
20. ALL ATMS ITEMS PROPOSED IN THESE PLANS SHALL FOLLOW ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS WHICH REQUIRE COMPLIANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. THIS INCLUDES RESTORATION OF SIDEWALK PANELS, LANDSCAPING AND GRASS AREAS IN CONFORMANCE WITH SECTION 630-3.6 OF THE FDOT STANDARD SPECIFICATIONS.

FIBER OPTIC COMMUNICATION CONDUIT / PULL BOXES

1. ALL REFERENCES IN THE PLANS TO RIGID CONDUIT SHALL BE INSTALLED AS RIGID GALVANIZED STEEL CONDUIT (RGSC).
2. SLACK REQUIREMENTS:

 200 FEET OF FIBER OPTIC TRUNK CABLE IN SPLICE BOXES, WITH 100 FEET OF CABLE ON EACH SIDE OF CABLE SPLICE.
 50 FEET OF FIBER OPTIC TRUNK CABLE IN FIBER OPTIC PULL BOXES.
 20 FEET OF FIBER OPTIC DROP CABLE INSIDE SIGNAL CABINETS.
3. ALL HDPE CONDUIT CONNECTIONS SHALL BE JOINED WITH A FUSION COUPLER.
4. ALL SPARE CONDUITS SHALL BE CAPPED WITH WATERPROOF PLUGS AND FURNISHED WITH A PULL CHORD FOR FUTURE USE.
5. ADJUST THE CONDUIT RUNS, PULL BOXES, BORES AND SERVICE POLE PLACEMENTS TO AVOID ANY UTILITY CONFLICT IDENTIFY BY THE LOCATES. ANY SIGNIFICANT CHANGE SHALL BE APPROVED BY THE ENGINEER.
6. THE CONDUITS ARE TO BE PLACED SO AS TO TOTALLY AVOID ANY CONFLICTS WITH EXISTING UTILITIES ALONG THE ROUTE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY INFORMATION REQUIRED TO PLAN THE WORK AHEAD FOR THE INSTALLATION OF THE REQUIRED CONDUITS WITHIN DESIGN OR SPECIFIED PARAMETERS, AND HIS TIME FRAME. ADJUST CONDUIT VERTICALLY OR HORIZONTALLY TO AVOID CONFLICT WITH UNDERGROUND UTILITIES.
7. FIELD LOCATE ALL ABOVEGROUND AND UNDERGROUND CONFLICTS IN ADVANCE OF THE PLACEMENT OF ANY CONDUIT OR OTHER FACILITIES. THE CONTRACTOR SHALL FIELD MARK THE PROPOSED ALIGNMENT FOR REVIEW AND CONCURRENCE BY THE ENGINEER PRIOR TO TRENCHING AND/OR PLACEMENT. NO PULL BOXES SHALL BE LOCATED IN DRAINAGE SWALES, OR PAVED SHOULDERS.
8. WHEN TRENCHING FOR INSTALLATION, RUN COMMUNICATIONS AND POWER SERVICE IN THE SAME TRENCH. THE POWER SERVICE SHALL HAVE SEPARATE PULL BOXES FOR ACCESS. DO NOT INSTALL COMMUNICATIONS AND POWER SERVICE IN THE SAME CONDUIT, PULL BOX OR MANHOLE.
9. PLACE ALL CONDUITS IN A MANNER THAT MINIMIZES DEFLECTION BOTH HORIZONTALLY AND VERTICALLY, THUS MINIMIZING STRESS ON CABLES DURING CABLE INSTALLATION. CONDUIT FOR FIBER OPTIC CABLE IN TRENCHES SHALL NOT DEFLECT MORE THAN 1-INCH PER FDOT VERTICALLY OR HORIZONTALLY. BENDS SHALL NOT BE PERMITTED EXCEPT AS SPECIFIED ON THE PLANS.
10. LOCATION OF ALL PULL BOXES SHALL BE DETERMINED IN THE FIELD TO PREVENT CONFLICTS WITH UTILITIES AND OTHER OBSTRUCTIONS.

UTILITY OWNERS

COMPANY	CONTACT PERSON	CONTACT NUMBER	EMAIL ADDRESS
AT&T FLORIDA (DISTRIBUTION)	TIM EDGAR	(850) 293-3780	te1810@att.com
CENTURYLINK / LEVEL 3	JIMMY YOUNG	(352) 303-2430	james.young2@lumen.com
COX COMMUNICATIONS	TROY YOUNG	(850) 857-4510	troy.young@cox.com
EMERALD COAST UTILITIES AUTHORITY (ECUA)	DAVID LIECHTY	(850) 969-6631	david.liechty@ecua.fl.gov
ESCAMBIA COUNTY SCHOOL DISTRICT	BRIAN JOHNSON	(850) 469-6226	bjohnson@ecsdf.l.us
GULF POWER COMPANY (DISTRIBUTION)	JOHN WIMBERLY	(850) 982-2746	john.wimberly@nexteraenergy.com
PENSACOLA CHRISTIAN COLLEGE	ERIC FEARS	(850) 418-4032	efears@pcci.edu
PENSACOLA ENERGY	DIANE MOORE	(850) 474-5319	dmoore@cityofpensacola.com
UNITI FIBER	KYLE HILL	(850) 544-1400	james.hill@uniti.com
VERIZON BUSINESS (MCI)	THOMAS BROYLES	(850) 475-7465	thomas.broyles@verizon.com

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT

 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

GENERAL NOTES

SHEET NO.

IT-10

PAY ITEM NOTES

1. 630-2-11 & 630-2-12:

ALL CONDUIT RUNS SHOWN ON THE PLANS ARE SCHEMATIC AND FIELD ELECTRICAL POWER SERVICE DUCTS, JACK & BORE SLEEVES, AND DIRECTIONAL BORE CONDUITS. ALL UNDERGROUND AND UNDER PAVEMENT CONDUITS SHALL BE A MINIMUM SIZE OF 2" UNLESS OTHERWISE SPECIFIED IN THE PLANS. COST OF PULL WIRE SHALL BE INCLUDED UNDER THIS PAY ITEM.

2. 633-2-31:

CONTRACTOR OR HIS REPRESENTATIVE TO CONTACT THE COUNTY TO GO OVER THE SPLICING PLAN/DETAILS AT LEAST 2 WORKING DAYS PRIOR TO THE FIELD SPLICING.

3. 635-2-12, 635-2-13 & 635-2-14:

PULL BOXES SHALL BE TRAFFIC BEARING, ALL POLYMER CONSTRUCTION (NOT CONCRETE), PULL BOXES AND LIDS. (QUAZITE OR ANOTHER EQUIVALENT FDOT APPROVED MANUFACTURER). PULL BOXES ARE TO BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, PULL BOXES SHALL BE PLACED A MINIMUM OF 7' FROM THE EDGE OF PAVEMENT.

FIBER OPTIC PULL BOX DIMENSIONS SHALL BE 24" x 36" x 36". FIBER OPTIC PULL BOX LIDS SHALL BE STAMPED "ESCAMBIA COUNTY FIBER OPTIC SYSTEM" ON THE COVER.

FIBER OPTIC SPLICE VAULT DIMENSIONS SHALL BE 41" DIAMETER BY 36" DEEP. FIBER OPTIC SPLICE VAULT LIDS SHALL BE STAMPED "ESCAMBIA COUNTY FIBER OPTIC SYSTEM" ON THE COVER.

ELECTRIC PULL BOX DIMENSIONS SHALL BE 17" x 30" x 12". ELECTRIC PULL BOX LIDS SHALL BE STAMPED "ELECTRIC" ON THE COVER.

4. 684-1-1:

SHALL INCLUDE A RUCKUS SWITCH AND ALL THE NECESSARY SYSTEM COMPONENTS FOR INTEGRATION INTO AN ETHERNET BASED FIBER OPTIC NETWORK. SEE SHEETS IT-8 FOR PERFORMANCE SPECIFICATIONS.

GENERAL REQUIREMENTS WHEN WORKING AT MASTER HUBS






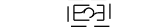
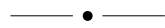
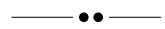



1. THIS CONTRACT REQUIRES SIGNIFICANT INVOLVEMENT OF THE SYSTEMS INTEGRATOR PERFORMING SYSTEMS INTEGRATION AT THE SIGNAL CONTROLLER CABINETS AND PROPOSED COMMUNICATION HUB. THIS COMMUNICATION HUB WILL HAVE NEW 10 GBE ROUTERS FURNISHED, INSTALLED, CONFIGURED, AND END-TO-END TESTING BETWEEN THE MASTER HUB AND THE ESCAMBIA COUNTY TRAFFIC MANAGEMENT CENTER. THE CURRENT TRAFFIC MANAGEMENT CENTER IS LOCATED AT 3363 W. PARK PLACE, PENSACOLA FLORIDA 32505. THE WORK TO BE PERFORMED BY THE CONTRACTOR IS INDICATED IN THE PLANS.

2. ONE WEEK PRIOR TO COMMENCING ANY WORK, CONTACT:

ESCAMBIA COUNTY ENGINEERING DEPARTMENT - CONSTRUCTION MANAGEMENT DIVISION
CORY ROBERTS JR.
3363 WEST PARK PLACE
PENSACOLA, FLORIDA 32505
PHONE: 850-417-4853

MAINTENANCE OF COMMUNICATION FOR RESTORING EXISTING FIELD - TO - CENTER CONNECTIVITY

1. SUBMIT A WRITTEN MAINTENANCE OF COMMUNICATION (MOC) PLAN TO ESCAMBIA COUNTY AND THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO COMMENCING WORK INSIDE THE CONTROLLER CABINETS. SUBMIT THE MOC PLAN TO MR. CORY ROBERTS JR. AT LEAST 2 WEEKS PRIOR TO INTERRUPTING THE EXISTING COMMUNICATION NETWORK. THE MOC PLAN SHALL INCLUDE A DETAILED DESCRIPTION OF THE PHASED CUTOVER WITH MAXIMUM DOWNTIME REQUIREMENTS FOR THE EXISTING COMMUNICATION MEDIA IS 4 HOURS.
2. NOTIFY FDOT DISTRICT 3 CHIPLEY RTMC, MR. JONATHAN BAILEY AT 850-330-1784, AND COORDINATE AT LEAST 2 DAYS PRIOR TO THE INSTALLATION OF THE MASTER COMMUNICATION HUB.



LEGEND	
	FO PULL BOX WITH CONCRETE APRON
	EXISTING SIGNAL PULL BOX
	PROP. CIRCULAR SPLICE BOX
	EXIST. CIRCULAR SPLICE BOX
	EXIST. RECTANGULAR FO SPLICE BOX
	UG SIGNAL, FO MAIN COMMUNICATION, POWER CONDUIT (PROPOSED)
	HORIZONTAL DIRECTIONAL DRILLING CONDUIT (PROPOSED)
	EXISTING FO AND POWER CONDUITS, AND CONDUCTORS
	EXISTING CABINET (GROUND MOUNTED)
	FENCED MASTER COMMUNICATION HUB
	TYPE 340 ITS CABINET USED AS MASTER HUB

SYSTEM INTEGRATION PLAN REQUIREMENTS

- STEP 1: SUBMIT A WRITTEN SYSTEMS INTEGRATION PLAN (SIP) ESTABLISHING GUIDELINES AND REQUIREMENTS FOR THE SYSTEM INTEGRATION OF THIS PROJECT IN CLEAR AND CONCISE TERMS TO THE COUNTY FOR APPROVAL PRIOR TO COMMENCING ANY WORK.
- STEP 2: OBTAIN COUNTY'S APPROVAL OF THE INITIAL PROPOSED SIP, AND STAGED IMPLEMENTATION.
- STEP 3: PERFORM TRAINING & SYSTEM VALIDATION FOR THE COUNTY STAFF ON THE USE OF THE SOFTWARE AND ROUTER AS A COMPLETE SYSTEM. THE TRAINING SHALL BE 8 HOURS FOR 5 PERSONNEL OVER A PERIOD OF ONE WEEK.
- STEP 4: PERFORM SYSTEM FOLLOW-UP AFTER 90 DAYS POST SYSTEMS ACCEPTANCE TO MAKE SURE THE SYSTEM IS WORKING AS PLANNED TWO WEEKS AFTER THE END USER FAMILIARITY.

ITS EQUIPMENT ABBREVIATIONS

- | | |
|-------------------------------------|--------------------------------------|
| AWG: AMERICAN WIRE GAGE | RPMU: REMOTE POWER MANAGEMENT UNIT |
| ERM: ELECTRONIC ROUTE MARKER | SMFOC: SINGLE MODE FIBER OPTIC CABLE |
| FOC: FIBER OPTIC CABLE | SPD: SURGE PROTECTION DEVICE |
| HDD: HORIZONTAL DIRECTIONAL DRILL | SRM: STANDARD ROUTE MARKER |
| MFES: MANAGED FIELD ETHERNET SWITCH | UG: UNDERGROUND |
| PM: POLE MOUNTED | UPS: UNINTERRUPTIBLE POWER SUPPLY |
| PP: PATCH PANEL | |

REVISIONS		 GREGORY A. STEVANUS JR. P.E. LICENSE NUMBER 96562 HDR ENGINEERING, INC. 25 WEST CEDAR STREET, SUITE 200 PENSACOLA, FL 32502-5945	 ESCAMBIA COUNTY ENGINEERING DEPARTMENT US 29 / PENSACOLA BLVD AND SR 727/295 FAIRFIELD DR FIBER OPTIC IMPROVEMENTS	PAY ITEM NOTES AND LEGEND		SHEET NO.
DATE	DESCRIPTION					IT-11

PERFORMANCE SPECIFICATIONS FOR ETHERNET SWITCH AT EACH TRAFFIC SIGNAL CABINET

DESCRIPTION:

FURNISH AND INSTALL A ETHERNET SWITCH MANAGED AT DEVICE LEVEL (TRAFFIC SIGNAL CONTROLLER CABINET), RUCKUS ICX 7150, THAT IS FANLESS WITH 24 PORTS OF ETHERNET RJ45 GIGABIT, 4 PORTS OF 1/10 GbE STACKING CAPABLE SFP/SFP+ WITH A RANGE OF EXPANSION MODULE OPTIONS AND CAPABLE OF FULL GIGABIT ETHERNET INTERFACES WITH 10G UPLINK VARIANTS FOR THIS PROJECT AT LOCAL HUBS (SIGNAL CONTROLLER CABINETS) AS CALLED FOR IN THE PLANS.

HARDWARE SPECIFICATION:

POE POWER BUDGET:	370W
REMOVABLE STORAGE:	USB TYPE
ALARMS:	2 ALARMS IN, 1 ALARM OUT
CONSOLE PORTS:	1 RS-232 (VIA RJ45), 1 USB TYPE C, RJ45 ETHERNET PORT (NETWORK MANAGEMENT)
POWER INPUTS:	AC POWER (C14 STANDARD)

PERFORMANCE AND SCALABILITY FEATURES:

FORWARDING RATE	LINE RATE FOR ALL PORTS AND ALL PACKET SIZES
NUMBER OF QUEUES	8 QOS PRIORITY QUEUES PER PORT
UNICAST MAC ADDRESSES	16K
INTERNET GROUP MANAGEMENT PROTOCOL (IGMP) MULTICAST GROUPS	3K (LAYER 2), 2K (LAYER 3)
NO. OF VLANS	4095 VLANS, 32 PRIVATE VLANS
IPV4 INDIRECT ROUTES	1000 NEXT HOP ADDRESS: 4,094
IPV6 INDIRECT ROUTES	1000 NEXT HOP ADDRESS: 4,094
SPANNING TREE PROTOCOL (STP) INSTANCES	254
ACCESS CONTROL ENTRIES (ACL/VACL/RACL)	LAYER 3 / LAYER 4 ACLS
DRAM	1 GB
FLASH (USER ACCESSIBLE)	2 GB
USB	TYPE C PORT FOR CONSOLE MANAGEMENT
JUMBO FRAMES	9216 BYTES

POWER SPECIFICATIONS:

INPUT VOLTAGE:	120 / 240 VAC
MAXIMUM INPUT CURRENT:	APPROX. 0.42A AT 120 VAC
POWER CONSUMPTION:	32W (1 AC PS AND 1 FAN) AT 100% TRAFFIC
POWER SUPPLY RATED MAXIMUM (AC)	525W, 100% TRAFFIC, FULL PoE LOAD

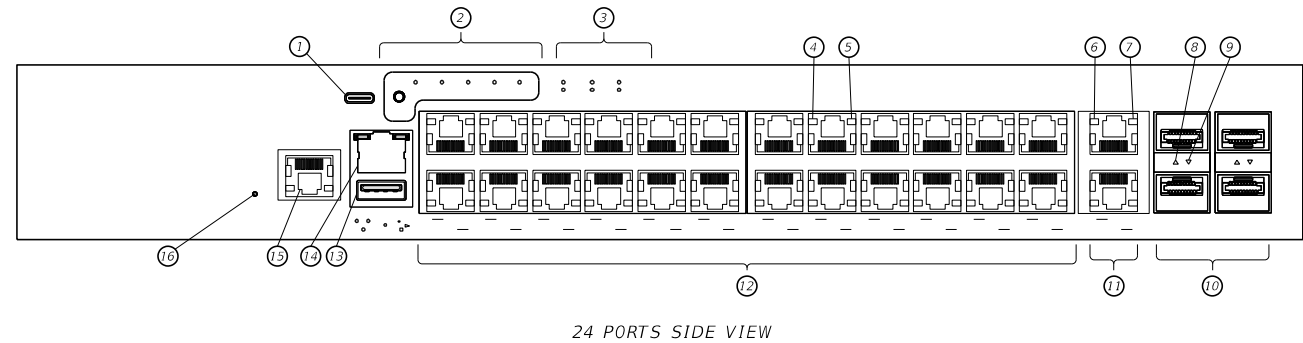
KEY SUPPORTED SOFTWARE FEATURES (NETWORK ADVANCE LICENSE)

IP ROUTING PROTOCOLS:	OSPF (V4 AND V6), BGP (V4 AND V6), RIP (V1 AND V2), ISIS (V4 AND V6), EIGRP (V4 AND V6), POLICY BASED ROUTING(PBR), VRRP(V4 AND V6), HSRP(V4 AND V6)FLEXIBLE NETFLOW (FNF), MACSEC-128
VIRTUALIZATION:	VRF-LITE
SECURITY:	SNMPV3, TACACS+, RADIUS SERVER/CLIENT, MAC ADDRESS NOTIFICATION, BPDU GUARD, ACCESS LISTS (PACL,VACL,RACL), SUDI 2099 (SECURE UNIQUE DEVICE IDENTIFIER), FULL FLEXIBLE NETFLOW (FNF), MACSEC-128
IP MULTICAST:	PIM SPARSE MODE (PIM-SM), PIM DENSE MODE (PIM-DM), PIM SPARSE DENSE MODE, MSDP, MULTICAST ROUTING BSR (IPV4/IPV6), AUTO RP(IPV4), EMBEDDED RP(IPV6)

MECHANICAL DIMENSIONS:

NET WEIGHT (LBS)	2.2
WIDTH x HEIGHT x DEPTH (INCHES)	17.6 x 1.7 x 11.2

- ① TYPE-C USB CONSOLE PORT
- ② PORT STATUS MODE SELECTION BUTTON AND LEDS
- ③ SYSTEM LEDS
- ④ RJ-45 DOWNLINK PORT 17 STATUS LED
- ⑤ RJ-45 DOWNLINK PORT 17 RX/TX ACTIVITY LED
- ⑥ RJ-45 UPLINK PORT C1 STATUS LED
- ⑦ RJ-45 UPLINK PORT C1 RX/TX ACTIVITY LED
- ⑧ SFP+ PORT X1 STATUS LED
- ⑨ SFP+ PORT X2 STATUS LED
- ⑩ SLOT 3 (SFP+ UPLINK OR STACKING) PORTS
- ⑪ SLOT 2 (10/100/1000 Mbps RJ-45 UPLINK) PORTS (HALF-DUPLEX IS NOT SUPPORTED ON THESE PORTS)
- ⑫ SLOT 1 (10/100/1000 Mbps RJ-45 DOWNLINK) PORTS
- ⑬ USB PORT
- ⑭ OUT-OF-BAND MANAGEMENT PORT (RJ-45) WITH 2 LEDS
 - A. LEFT LED-OFF: LINK-DOWN, STEADY GREEN: LINK-UP, AND BLINKING GREEN: WHEN THERE IS RX/TX ACTIVITY
 - B. RIGHT LED-OFF: WHEN OFFLINE OR LINKED AT 10/100 Mbps, BLINKING GREEN: WHEN THERE IS RX/TX ACTIVITY
- ⑮ RJ-45 CONSOLE PORT
- ⑯ RESET BUTTON



REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

LAYER 2 AND LAYER 3 MFES
PERFORMANCE SPECIFICATIONS (1)

SHEET NO.

IT-12

PERFORMANCE SPECIFICATIONS FOR CORE 10 Gbps ETHERNET SWITCH AT MASTER HUBS

DESCRIPTION:

FURNISH, INSTALL AND CONFIGURE RUCKUS ICX7550-48F-E2-R3 SWITCH; ICX- 7650/7550 2-PORT 40GbE QSFP+ MODULE ICX7650-2X40GQ; ICX TOOL-LESS 4-POST RACK MOUNT KIT ICX-RMK-4POST-TL.

THIS LAYER 3 ETHERNET SWITCH SHALL USE SUPERIOR HIGH-BANDWIDTH HARDWARE SWITCHING, HIGHLY SECURE AND SCALABLE FOR ACCESS AND AGGREGATION LAYER DEPLOYMENTS AND SHALL BE RUGGEDIZED SWITCH THAT PROVIDES LAYER 2 AND LAYER 3 LINE RATE AGGREGATION AND COPPER POWER OVER ETHERNET (POE) CONNECTIVITY IN THE HARSHTEST OF INDUSTRIAL ENVIRONMENTS. IT SHALL ALSO PROVIDE RUCKUS ICX-7550 48F STACKABLE TECHNOLOGIES FOR ADVANCE NETWORK RELIABILITY.

HARDWARE SPECIFICATION:

HARDWARE:	RUCKUS ICX-7550 48 F, WITH 12 PORTS OF 1/10 GbE STACKING CAPABLE SFP/SFP+ UPLINKS, 36-PORT 10/100/1000 Mbps/2.5 Gbps 802.3bt POE DOWNLINKS, 1-GB DRAM, 256-MB ONBOARD FLASH MEMORY, 1-GB REMOVABLE SD, MINI-USB CONNECTOR, RJ-45 TRADITIONAL, RJ-45 TRADITIONAL CONSOLE CONNECTOR, GPS ANTENNA INTERFACE, GPS ANTENNA INPUT, ANALOG TIMING I/O INTERFACE - FOR ANALOG IRIG SUPPORT, DIGITAL TIMINGS I/O INTERFACE
ACCESSORIES:	SPARE SD CARD

RUCKUS ICX-7550-48F LICENSES

RUCKUS ICX-7550-48F	SMARTZONE 7-YEAR TERM LICENSE
---------------------	-------------------------------

ENVIRONMENT

OPERATING TEMPERATURE:	0°C TO 45°C
OPERATING RELATIVE HUMIDITY:	5% TO 95% AT 45°C, NON-CONDENSING

PHYSICAL SPECIFICATIONS

DIMENSIONS (H X W X D):	1.73 INCHES X 17.5 INCHES X 16.0 INCHES
SYSTEM WEIGHT WITHOUT POWER SUPPLY:	15.65 LBS
POWER CONSUMPTION MAXIMUM:	1183.7 W NOT INCLUDING POE CONSUMPTION

SFP SUPPORT

SPECIFICATION	SFP TYPE	MAX DISTANCE	OPTICS
100GBE QSFP28 TO QSFP28 DIRECT ATTACH, PASSIVE COPPER CABLE, 1M E100G-QSFP-QSFP-P-0101	10GE	40 KM	40GBASE-ER4 QSFP+ OPTIC (LC), FOR UP TO 40KM OVER SMF E40G-QSFP-LR4; 0GBASE-LR, SFP+ OPTIC (LC), FOR UP TO 10KM OVER SMF 10G-SFP-LR; 000BASE-LX SFP OPTIC, SMF, LC CONNECTOR, OPTICAL MONITORING CAPABLE E1MG-LX-OM

UPLINK / STACKING MODULES

RUCKUS ICX-7550 4X10GF MODULE	- 4X10GE SFP+ UPLINK PORT WITH MACSEC 128 BIT OR 256-BIT SUPPORT - DELIVERS UP TO 40 GBPS OF UPLINK BANDWIDTH
-------------------------------	--

SHORT FORM PLUGGABLE (SFP) SUPPORT

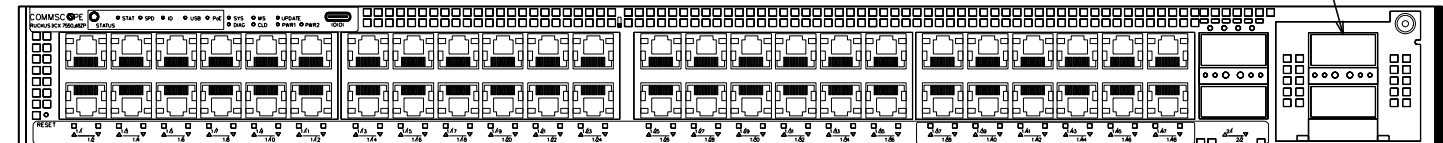
HIGH AVAILABILITY:	<ul style="list-style-type: none"> LAYER 3 VRRP/VRRP-E PROTOCOL REDUNDANCY REAL-TIME STATE SYNCHRONIZATION ACROSS THE STACK HITLESS FAILOVER AND SWITCHOVER FROM MASTER TO STANDBY STACK CONTROLLER HOT INSERTION AND REMOVAL OF STACKED UNITS LAYER 2 VSRP SWITCH REDUNDANCY IN SERVICE SOFTWARE UPDATE (ISSU)
ENVIRONMENT:	<ul style="list-style-type: none"> OPERATING TEMPERATURE: 0°C to 45°C HUMIDITY: OPERATING RELATIVE HUMIDITY: 5% to 95% at 45°C, NON-CONDENSING
MEAN TIME BETWEEN FAILURE (MTBF)	• 397,428 HOURS
MANAGEMENT AND STANDARDS	<ul style="list-style-type: none"> IEEE STANDARDS: ALL APPLICABLE RFC COMPLIANCE CODES: ALL APPLICABLE SNMP MIB OBJECTIVES: ALL APPLICABLE

KEY SUPPORTED FEATURES (SWITCH VERSION MUST INCLUDE PREMIUM LAYER 3 LICENSE)

LAYER 2 FEATURES:	<ul style="list-style-type: none"> 802.1S MULTIPLE SPANNING TREE 802.1X AUTHENTICATION AUTO MDI / MDIX BPDU GUARD, ROOT GUARD DUAL-MODE VLANs MAC-BASED VLANs, DYNAMIC MAC-BASED VLAN ACTIVATION DYNAMIC VLAN ASSIGNMENT DYNAMIC VOICE VLAN ASSIGNMENT FAST PORT SPAN GVRP: GARP VLAN REGISTRATION PROTOCOL IGMP SNOOPING (V1/V2/V3) IGMP PROXY FOR STATIC GROUPS IGMP V2/V3 FAST LEAVE INTER-PACKET GAP (IPG) ADJUSTMENT LINK FAULT SIGNALING (LFS) MAC ADDRESS FILTERING MAC LEARNING DISABLE MLD SNOOPING (V1/V2) MULTI-DEVICE AUTHENTICATION PER-VLAN SPANNING TREE (PVST/PVST+/PRST) MIRRORING: PORT-BASED, ACL-BASED, MAC FILTER-BASED, AND VLAN-BASED PIM-SM V2 SNOOPING PORT LOOP DETECTION PRIVATE VLAN REMOTE FAULT NOTIFICATION (RFN) SINGLE-INSTANCE SPANNING TREE TRUNK GROUPS (STATIC, LACP) UNI-DIRECTIONAL LINK DETECTION (UDLD) METRO-RING PROTOCOL (MRP) (V1, V2) VIRTUAL SWITCH REDUNDANCY PROTOCOL (VSRP) Q-IN-Q AND SELECTIVE Q-IN-Q VLAN MAPPING TOPOLOGY GROUPS
LAYER 3 IP ROUTING FEATURES: *	<ul style="list-style-type: none"> IPV4 AND IPV6 STATIC ROUTES - RIP V1/V2, RIPNG ECMP PORT-BASED ACCESS CONTROL LISTS LAYER 3/LAYER 4 ACLS HOST ROUTES VIRTUAL INTERFACES ROUTED INTERFACES ROUTE-ONLY SUPPORT ROUTING BETWEEN DIRECTLY CONNECTED SUBNETS IPV4 AND IPV6 DYNAMIC ROUTES OSPF V2, V3 PIM-SM, PIM-SSM, PIM-DM, PIM PASSIVE (IPV4, IPV6) PBR
SECURITY:	<ul style="list-style-type: none"> 802.1X AUTHENTICATION MAC AUTHENTICATION FLEXIBLE AUTHENTICATION WEB AUTHENTICATION DHCP SNOOPING DYNAMIC ARP INSPECTION NEIGHBOR DISCOVERY (ND) INSPECTION BI-LEVEL ACCESS MODE (STANDARD AND EXEC LEVEL) EAP PASS-THROUGH SUPPORT IEEE 802.1X USERNAME EXPORT IN SFLOW PROTECTION AGAINST DENIAL OF SERVICE (DOS) ATTACKS AUTHENTICATION, AUTHORIZATION, AND ACCOUNTING (AAA) MAC ADDRESS LOCKING MAC PORT SECURITY ADVANCED ENCRYPTION STANDARD (AES) WITH SSHV2 RADIUS/TACACS/TACACS+ SECURE COPY (SCP) SECURE SHELL (SSHV2) PROTECTED PORTS LOCAL USERNAME/PASSWORD CHANGE OF AUTHORIZATION (COA) RFC 5176 TRUSTED PLATFORM MODULE RADSEC (RFC 6614) ENCRYPTED SYSLOG (RFC 5425)

* DENOTES THE ETHERNET SWITCH MUST INCLUDE PREMIUM LICENSE










RUCKUS ICX-7550

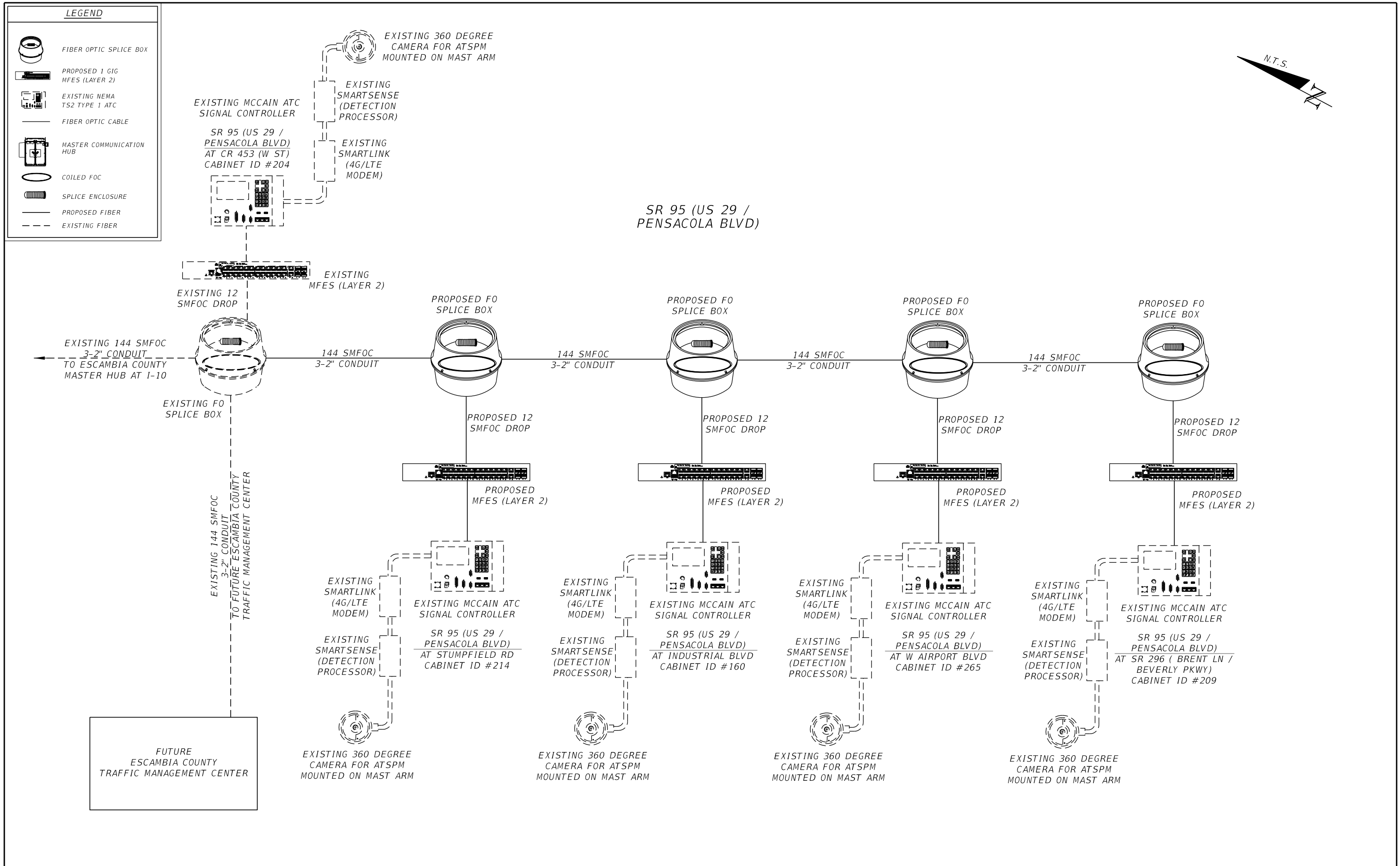
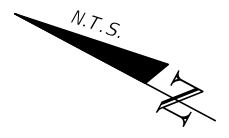


10 GbE SFP PORT

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

LEGEND

-  FIBER OPTIC SPLICE BOX
-  PROPOSED 1 GIG MFES (LAYER 2)
-  EXISTING NEMA TS2 TYPE 1 ATC
-  FIBER OPTIC CABLE
-  MASTER COMMUNICATION HUB
-  COILED FOC
-  SPLICE ENCLOSURE
-  PROPOSED FIBER
-  EXISTING FIBER



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



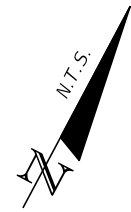
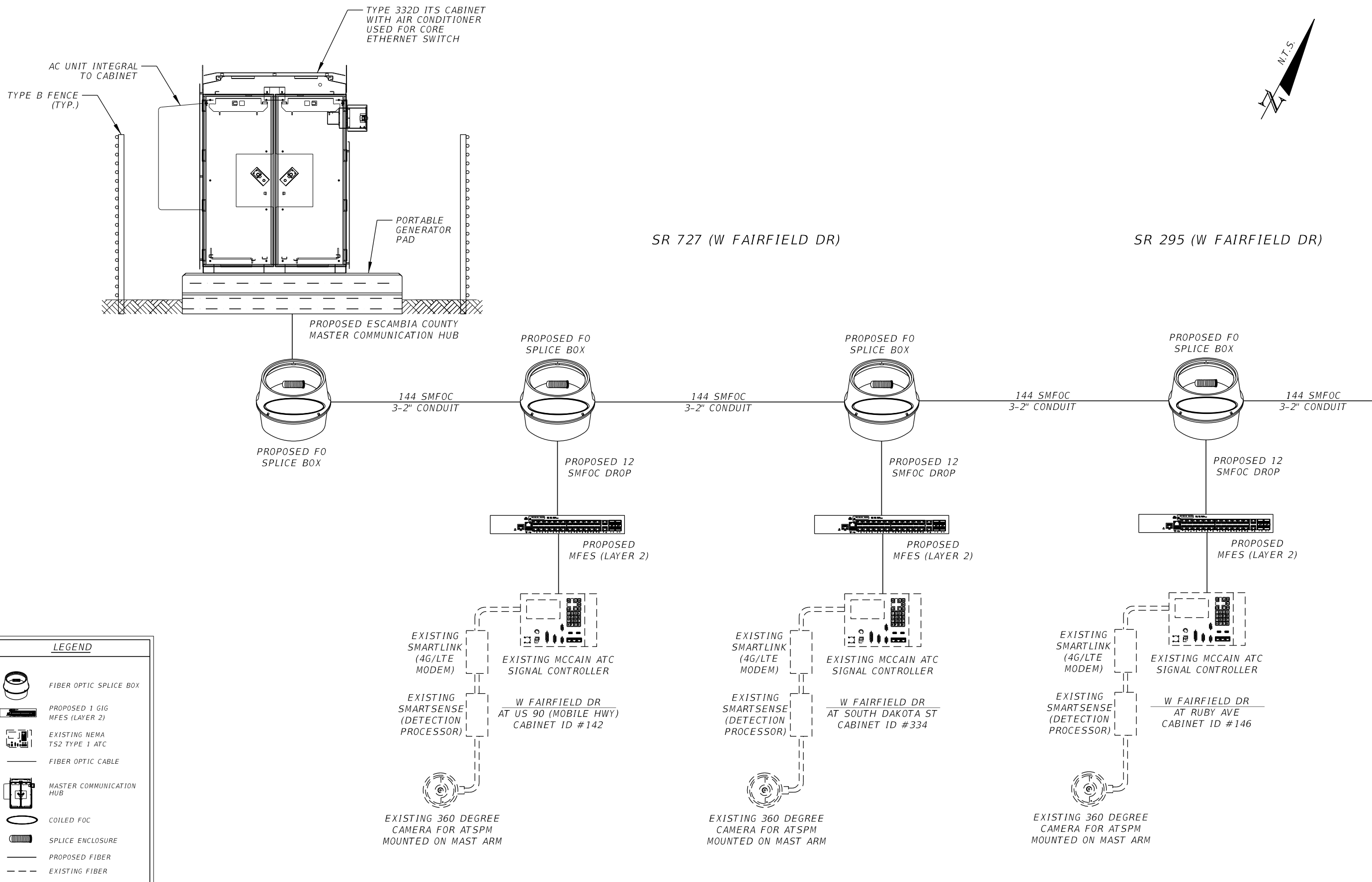
GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

**COMMUNICATION
OVERVIEW (1)**

SHEET NO.
IT-14



LEGEND	
	FIBER OPTIC SPLICE BOX
	PROPOSED 1 GIG MFES (LAYER 2)
	EXISTING NEMA TS2 TYPE 1 ATC
	FIBER OPTIC CABLE
	MASTER COMMUNICATION HUB
	COILED FOC
	SPLICE ENCLOSURE
	PROPOSED FIBER
	EXISTING FIBER

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945












ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

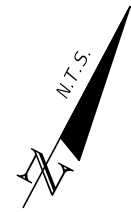
**COMMUNICATION
OVERVIEW (2)**

SHEET NO.
IT-15

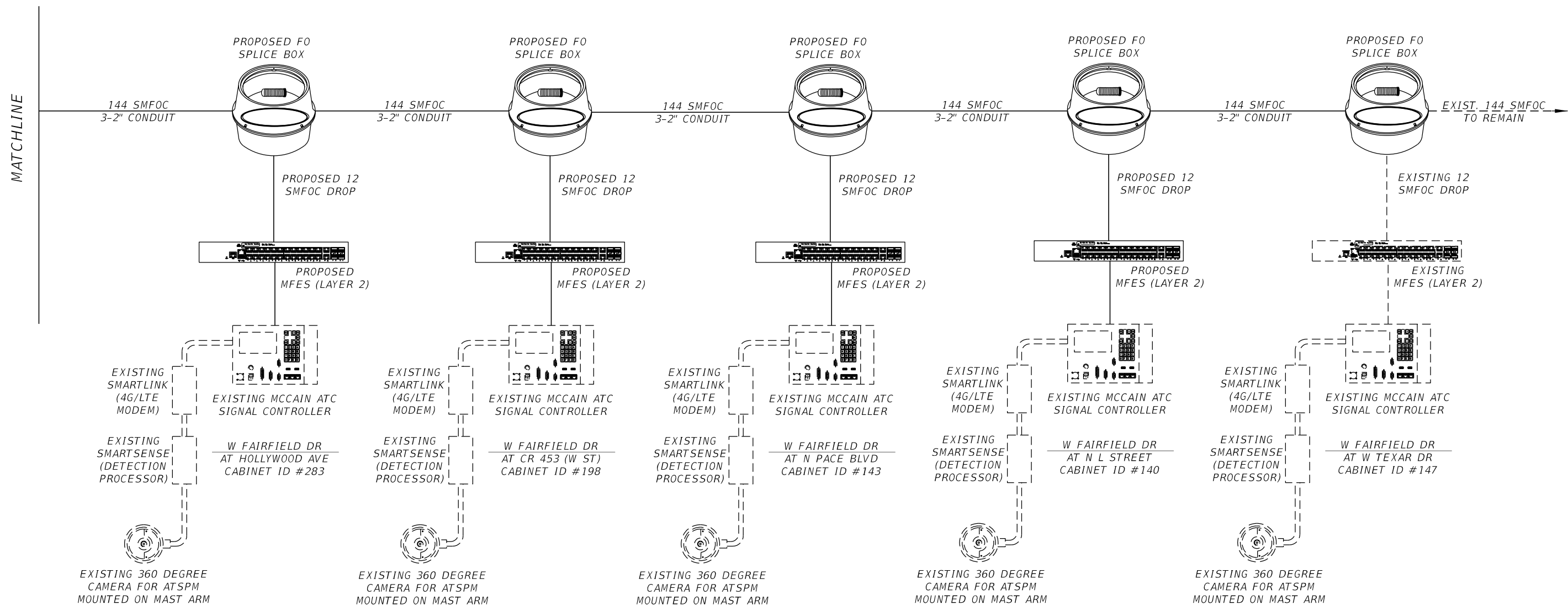
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

LEGEND

-  FIBER OPTIC SPLICE BOX
-  PROPOSED 1 GIG MFES (LAYER 2)
-  EXISTING NEMA TS2 TYPE 1 ATC
-  FIBER OPTIC CABLE
-  MASTER COMMUNICATION HUB
-  COILED FOC
-  SPLICE ENCLOSURE
-  PROPOSED FIBER
-  EXISTING FIBER



SR 295 (W FAIRFIELD DR)



REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

**COMMUNICATION
 OVERVIEW (3)**

SHEET NO.
 IT-16

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND
 (XX) ATMS PLAN (X)

REVISIONS	
DATE	DESCRIPTION

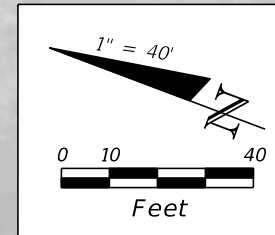
HDR
 GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

ESCAMBIA COUNTY FLORIDA
 ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

PROJECT LAYOUT

SHEET NO.
 IT-17

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (2)

144 SMFOC COIL	633-1-124	200 LF
FOC SPLICE	633-2-31	144 EA
SPLICE TRAY	633-3-12	12 EA
ADJ/MDY EXIST. SPLICE ENC.	633-3-51	1 EA

144 SMFOC 633-1-124 65 LF
INSTALLED INSIDE EXISTING CONDUIT

144 SMFOC COIL 633-1-124 50 LF
INSTALLED INSIDE EXISTING FIBER OPTIC PULL BOX

EXIST. ESCAMBIA COUNTY FIBER OPTIC GOING TO ESCAMBIA COUNTY TRAFFIC MANAGEMENT CENTER INSTALLED IN PHASE 1

3-2" HDD	630-2-12	321 LF
144 SMFOC	633-1-124	321 LF

144 SMFOC COIL 633-1-124 50 LF
FO PB, INSTALL SRM 635-2-12 1 EA

3-2" HDD	630-2-12	69 LF
144 SMFOC	633-1-124	69 LF

NOTE:
ALL CONDUITS FURNISHED AND INSTALLED BY HDD METHOD CONTAIN 1 FOR FOC AND 2 FOR SPARE.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

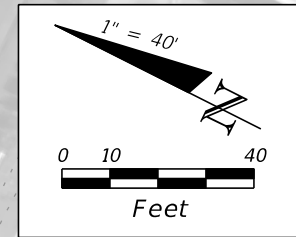


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (1)

SHEET NO.
IT-18

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (1)

MATCHLINE ATMS PLAN (3)



3-2" HDD	630-2-12	349 LF
144 SMFOC	633-1-124	349 LF

50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

3-2" HDD	630-2-12	220 LF
144 SMFOC	633-1-124	220 LF

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

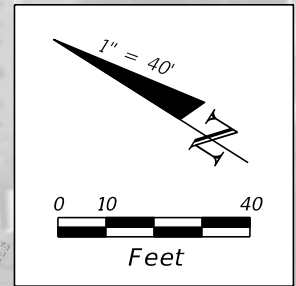


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (2)

SHEET NO.
 IT-19

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (2)

MATCHLINE ATMS PLAN (4)

SR 95 (US 29 / PENSACOLA BLVD)

EXIST. R/W

EXIST. R/W

50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

40 LF	630-2-11	3-2" UG CONDUIT
40 LF	633-1-124	144 SMFOC

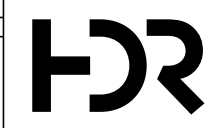
3-2" HDD	630-2-12	214 LF
144 SMFOC	633-1-124	214 LF

50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

3-2" HDD	630-2-12	307 LF
144 SMFOC	633-1-124	307 LF

9 LF	630-2-12	3-2" HDD
9 LF	633-1-124	144 SMFOC

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



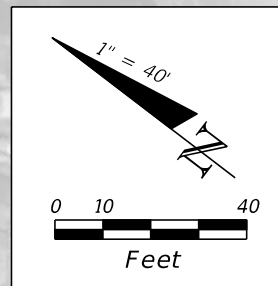
ESCAMBIA COUNTY
ENGINEERING DEPARTMENT

US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (3)

SHEET NO.
IT-20

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

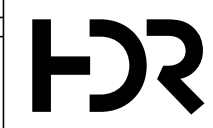


3-2" HDD	630-2-12	186 LF
144 SMFOC	633-1-124	186 LF

50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

3-2" HDD	630-2-12	307 LF
144 SMFOC	633-1-124	307 LF

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

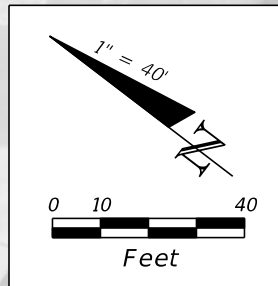


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (4)

SHEET NO.
IT-21

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (4)

MATCHLINE ATMS PLAN (6)



20 LF	633-1-121	12 SMFOC COIL
1 EA	633-3-13	PRETERM. CONNECTOR ASSEMBLY
1 EA	633-3-16	FIELD TERM. PP
1 EA	633-3-17	CONN. PANEL
1 EA	684-1-1	MFES

EXISTING SIGNAL CABINET

3-2" HDD	630-2-12	410 LF
144 SMFOC	633-1-124	410 LF

3-2" HDD	630-2-12	153 LF
144 SMFOC	633-1-124	153 LF

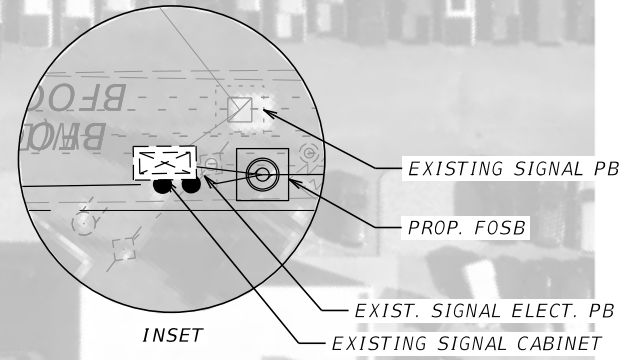
1-2" UG CONDUIT	630-2-11	10 LF
12 SMFOC	633-1-121	10 LF

SEE INSET

100 LF	633-1-121	12 SMFOC COIL
200 LF	633-1-124	144 SMFOC COIL
4 EA	633-2-31	FOC SPLICE
1 EA	633-3-11	SPLICE ENCLOSURE
1 EA	633-3-12	SPLICE TRAY
1 EA	635-2-13	FO SPLICE BOX, INSTALL ERM

CONSTRUCTION NOTES:

1. LOCATE A CLEAR SPOT INSIDE THE EXISTING CONCRETE CABINET BASE, SECURE AND PROTECT THE EXISTING CABLES TO AVOID INJURY TO THEM, AND CORE DRILL A HOLE FOR THE PROPOSED FOC DROP CABLE. COVER ALL ELECTRONIC AND SENSITIVE EQUIPMENT TO PREVENT DUCT ACCUMULATION OVER THE EQUIPMENT. REMOVE THE MUDDY RESIDUE AND ALL WATER WITH VACUUM AND CLEANUP BEFORE IT DRIES OUT.
2. INSTALL 1- 2" CONDUIT FROM PROPOSED FOSB TO THE CORE DRILLED HOLE AT THE BASE OF CABINET AND INSTALL THE 12 SMFOC DROP CABLE TO BE TERMINATED IN THE PATCH PANEL.



REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



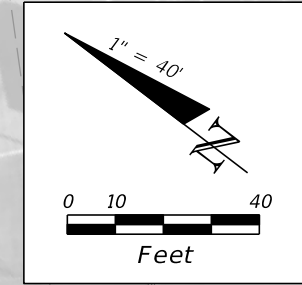
ESCAMBIA COUNTY
ENGINEERING DEPARTMENT

US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (5)

SHEET NO.
IT-22

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (5)

MATCHLINE ATMS PLAN (7)



3-2" HDD	630-2-12	73 LF
144 SMFOC	633-1-124	73 LF

50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

3-2" HDD	630-2-12	488 LF
144 SMFOC	633-1-124	488 LF

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

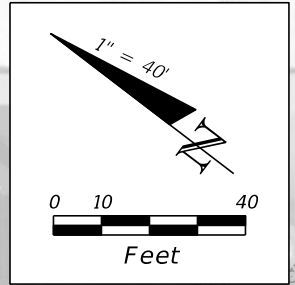


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (6)

SHEET NO.
IT-23

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (6)

MATCHLINE ATMS PLAN (8)



50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM
12 LF	630-2-12	3-2" HDD
12 LF	633-1-124	144 SMFOC

EXIST. R/W

3-2" HDD	630-2-12	437 LF
144 SMFOC	633-1-124	437 LF

144 SMFOC COIL	633-1-124	50 LF
FO PB, INSTALL SRM	635-2-12	1 EA

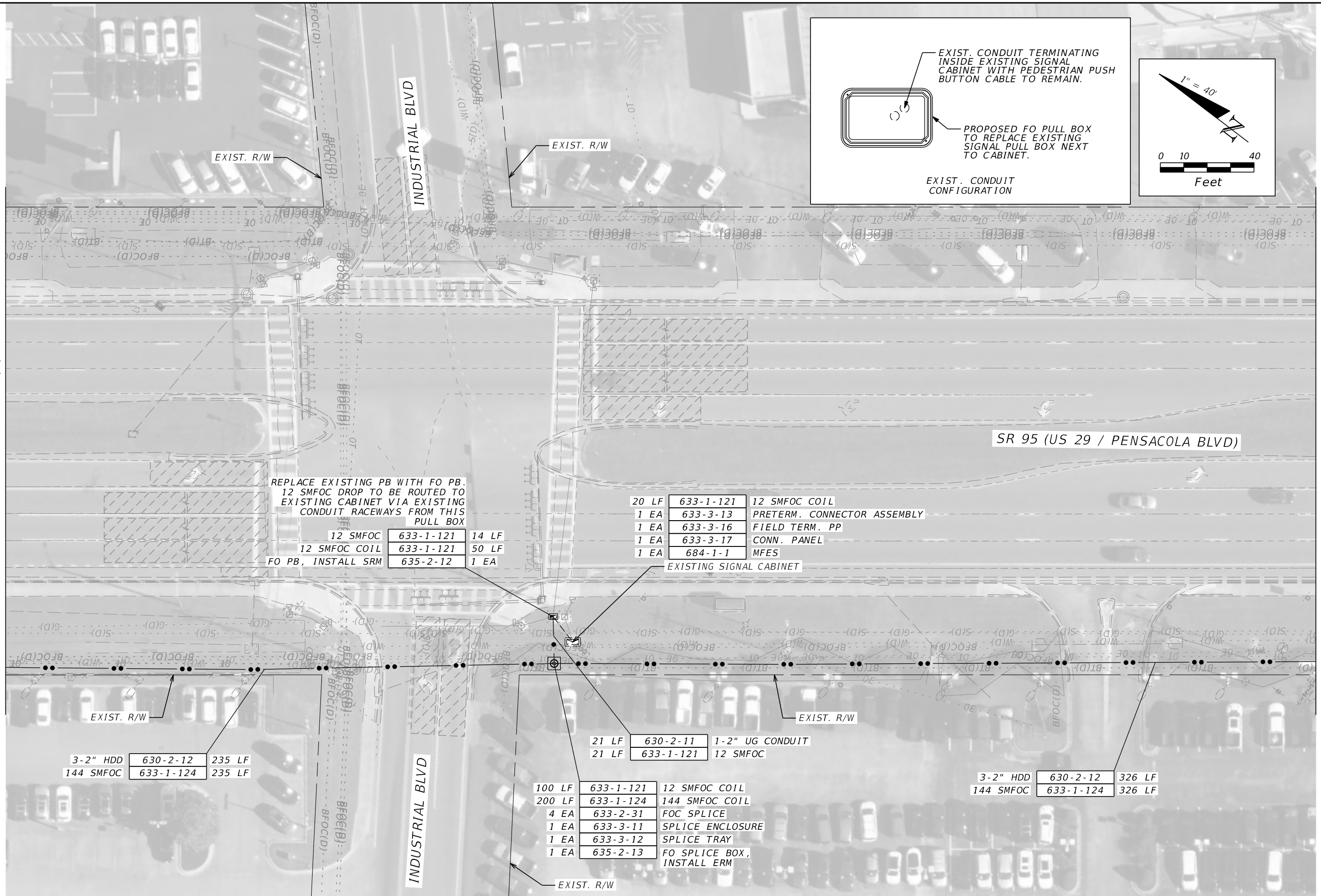
3-2" HDD	630-2-12	111 LF
144 SMFOC	633-1-124	111 LF

	REVISIONS DATE DESCRIPTION		GREGORY A. STEVANUS JR. P.E. LICENSE NUMBER 96562 HDR ENGINEERING, INC. 25 WEST CEDAR STREET, SUITE 200 PENSACOLA, FL 32502-5945		ESCAMBIA COUNTY ENGINEERING DEPARTMENT US 29 / PENSACOLA BLVD AND SR 727/295 FAIRFIELD DR FIBER OPTIC IMPROVEMENTS	<h2 style="margin: 0;">ATMS PLAN (7)</h2>	SHEET NO. IT-24
				<small>GSTEVANU 10/27/2025 12:23:40 AM PW\</small>			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCHLINE ATMS PLAN (7)

MATCHLINE ATMS PLAN (9)



REPLACE EXISTING PB WITH FO PB.
12 SMFOC DROP TO BE ROUTED TO
EXISTING CABINET VIA EXISTING
CONDUIT RACEWAYS FROM THIS
PULL BOX

12 SMFOC	633-1-121	14 LF
12 SMFOC COIL	633-1-121	50 LF
FO PB, INSTALL SRM	635-2-12	1 EA

20 LF	633-1-121	12 SMFOC COIL
1 EA	633-3-13	PRETERM. CONNECTOR ASSEMBLY
1 EA	633-3-16	FIELD TERM. PP
1 EA	633-3-17	CONN. PANEL
1 EA	684-1-1	MFES

EXISTING SIGNAL CABINET

3-2" HDD	630-2-12	235 LF
144 SMFOC	633-1-124	235 LF

21 LF	630-2-11	1-2" UG CONDUIT
21 LF	633-1-121	12 SMFOC

100 LF	633-1-121	12 SMFOC COIL
200 LF	633-1-124	144 SMFOC COIL
4 EA	633-2-31	FOC SPLICE
1 EA	633-3-11	SPLICE ENCLOSURE
1 EA	633-3-12	SPLICE TRAY
1 EA	635-2-13	FO SPLICE BOX, INSTALL ERM

3-2" HDD	630-2-12	326 LF
144 SMFOC	633-1-124	326 LF

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

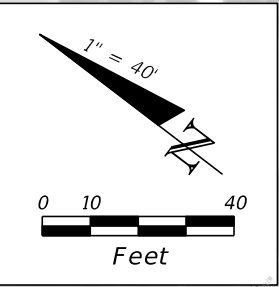
ATMS PLAN (8)

SHEET NO.
IT-25

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCHLINE ATMS PLAN (8)

MATCHLINE ATMS PLAN (10)

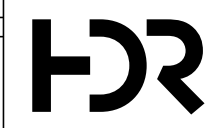


3-2" HDD	630-2-12	161 LF
144 SMFOC	633-1-124	161 LF

50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

3-2" HDD	630-2-12	400 LF
144 SMFOC	633-1-124	400 LF

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



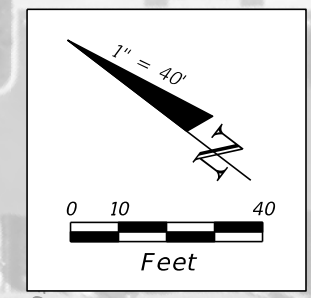
ESCAMBIA COUNTY
ENGINEERING DEPARTMENT

US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (9)

SHEET NO.
IT-26

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (9)

MATCHLINE ATMS PLAN (11)

SR 95 (US 29 / PENSACOLA BLVD)

EXIST. R/W

EXIST. R/W

50 LF 1 EA	633-1-124 635-2-12	144 SMFOC COIL FO PB, INSTALL SRM	50 LF 1 EA	633-1-124 635-2-12	144 SMFOC COIL FO PB, INSTALL SRM	50 LF 1 EA	633-1-124 635-2-12	144 SMFOC COIL FO PB, INSTALL SRM	50 LF 1 EA	633-1-124 635-2-12	144 SMFOC COIL FO PB, INSTALL SRM			
3-2" HDD 144 SMFOC	630-2-12 633-1-124	88 LF 88 LF	3-2" HDD 144 SMFOC	630-2-12 633-1-124	149 LF 149 LF	3-2" UG CONDUIT 144 SMFOC	630-2-11 633-1-124	112 LF 112 LF	3-2" HDD 144 SMFOC	630-2-12 633-1-124	212 LF 212 LF	3-2" HDD 144 SMFOC	630-2-12 633-1-124	6 LF 6 LF

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

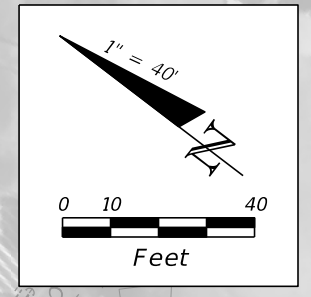


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (10)

SHEET NO.
IT-27

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REPLACE EXISTING PB WITH FO PB.
 12 SMFOC DROP TO BE ROUTED TO
 EXISTING CABINET VIA EXISTING
 CONDUIT RACEWAYS FROM THIS
 PULL BOX

9 LF	633-1-121	12 SMFOC
50 LF	633-1-121	12 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

20 LF	633-1-121	12 SMFOC COIL
1 EA	633-3-13	PRETERM. CONNECTOR ASSEMBLY
1 EA	633-3-16	FIELD TERM. PP
1 EA	633-3-17	CONN. PANEL
1 EA	684-1-1	MFES

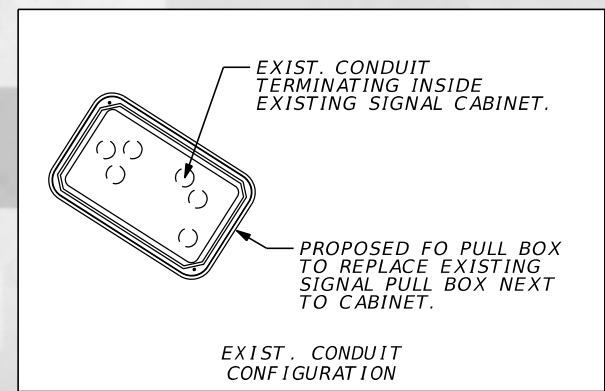
EXISTING SIGNAL CABINET

184 LF	630-2-12	2-2" HDD
184 LF	633-1-121	12 SMFOC

100 LF	633-1-121	12 SMFOC COIL
200 LF	633-1-124	144 SMFOC COIL
4 EA	633-2-31	FOC SPLICE
1 EA	633-3-11	SPLICE ENCLOSURE
1 EA	633-3-12	SPLICE TRAY
1 EA	635-2-13	FO SPLICE BOX, INSTALL ERM

3-2" HDD	630-2-12	252 LF
144 SMFOC	633-1-124	252 LF

3-2" HDD	630-2-12	309 LF
144 SMFOC	633-1-124	309 LF




MATCHLINE ATMS PLAN (10)


MATCHLINE ATMS PLAN (12)

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

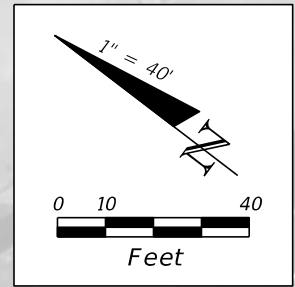


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (11)

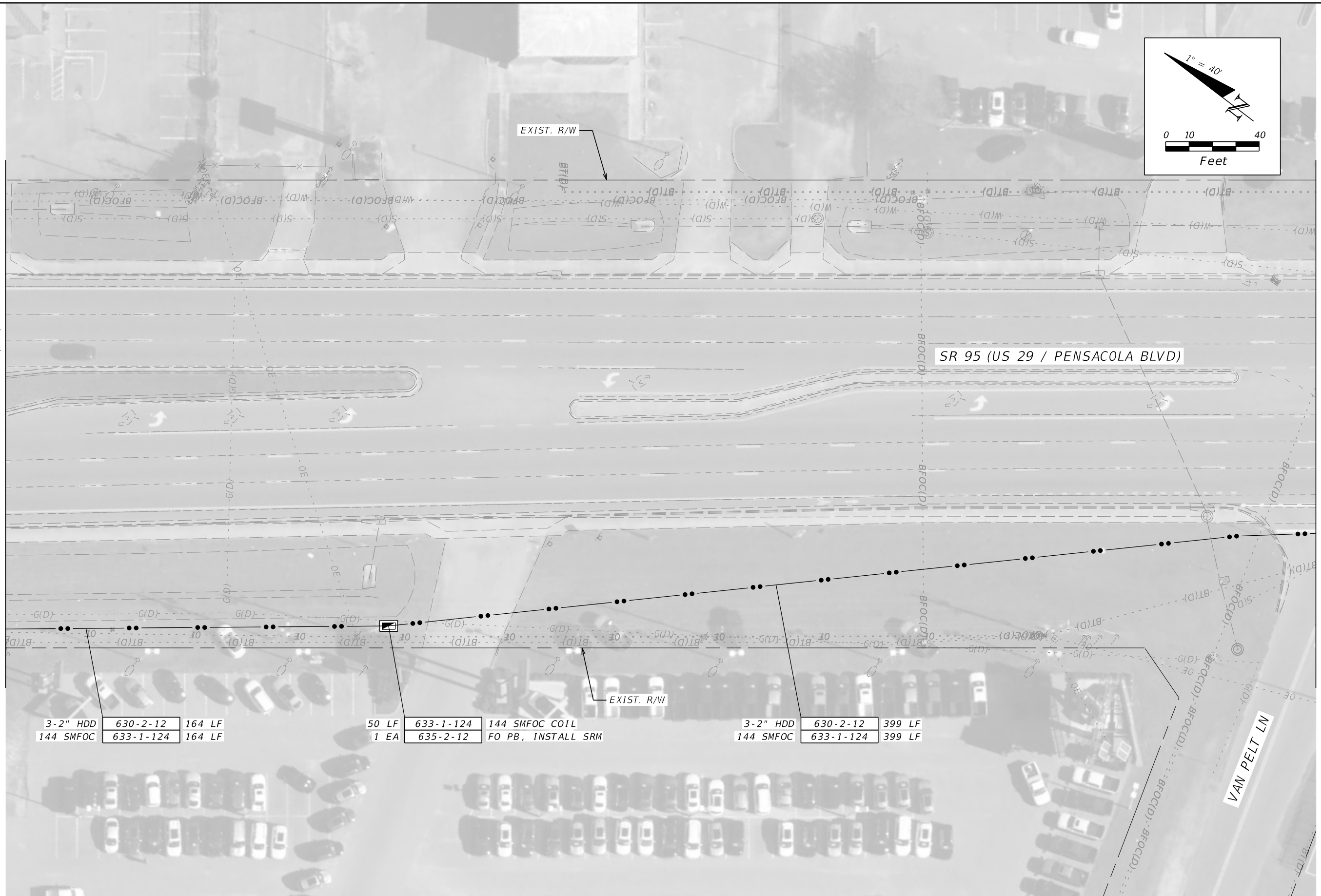
10/27/2025 12:25:42 AM PW:\

SHEET NO.
IT-28



MATCHLINE ATMS PLAN (11)

MATCHLINE ATMS PLAN (13)



3-2" HDD	630-2-12	164 LF
144 SMFOC	633-1-124	164 LF

50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

3-2" HDD	630-2-12	399 LF
144 SMFOC	633-1-124	399 LF

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

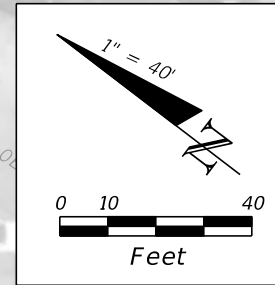


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (12)

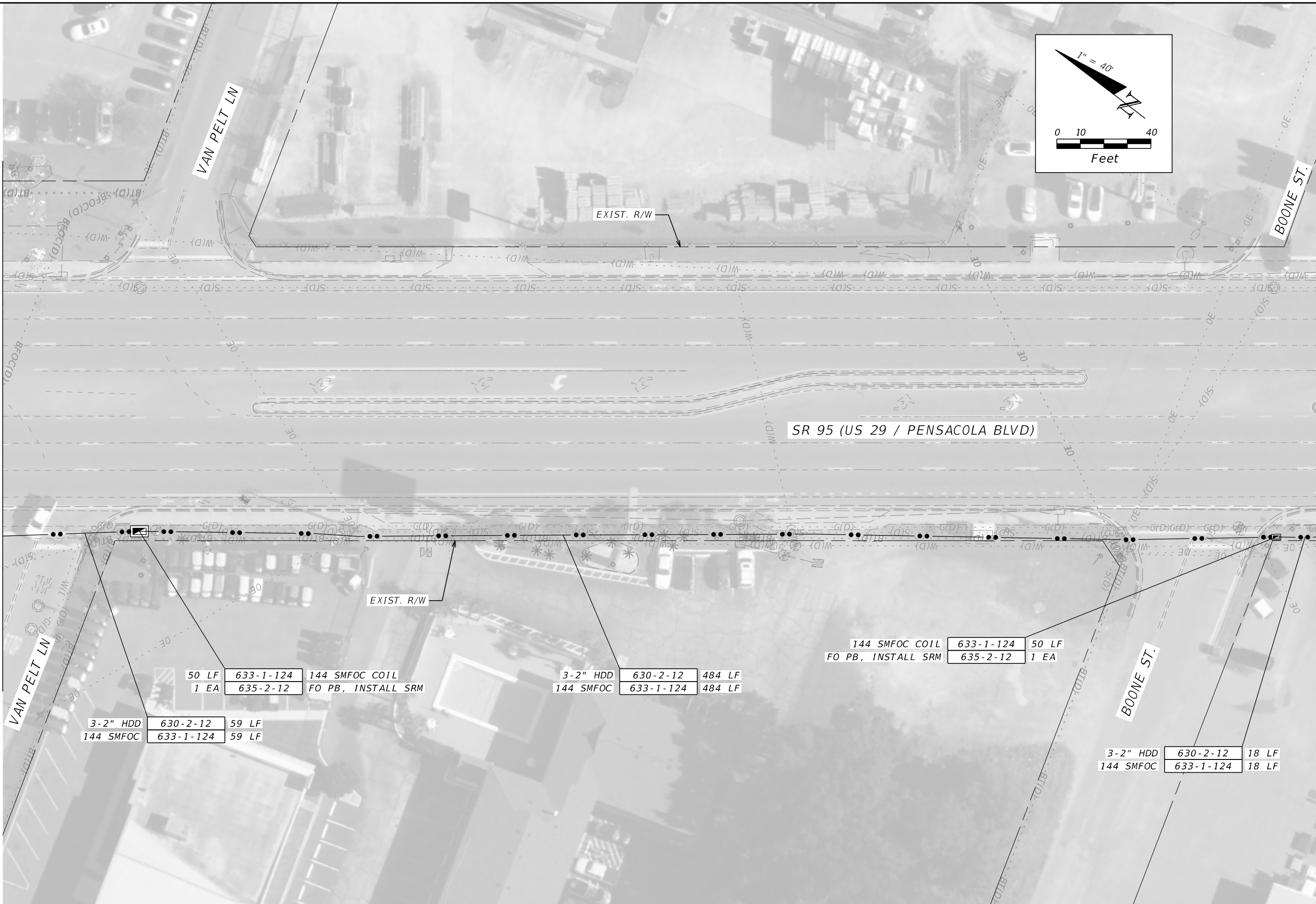
SHEET NO.
 IT-29

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (12)

MATCHLINE ATMS PLAN (14)



3-2" HDD	630-2-12	59 LF
144 SMFOC	633-1-124	59 LF
50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

144 SMFOC COIL	633-1-124	50 LF
FO PB, INSTALL SRM	635-2-12	1 EA

3-2" HDD	630-2-12	484 LF
144 SMFOC	633-1-124	484 LF

144 SMFOC COIL	633-1-124	50 LF
FO PB, INSTALL SRM	635-2-12	1 EA

3-2" HDD	630-2-12	18 LF
144 SMFOC	633-1-124	18 LF

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

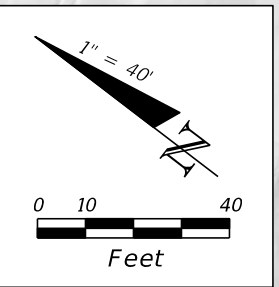


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (13)

SHEET NO.
IT-30

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (13)

MATCHLINE ATMS PLAN (15)



3-2" HDD	630-2-12	391 LF
144 SMFOC	633-1-124	391 LF

144 SMFOC COIL	633-1-124	50 LF
FO PB, INSTALL SRM	635-2-12	1 EA

3-2" HDD	630-2-12	168 LF
144 SMFOC	633-1-124	168 LF

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT

US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (14)

SHEET NO.
IT-31

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



3-2" HDD	630-2-12	307 LF
144 SMFOC	633-1-124	307 LF

144 SMFOC COIL	633-1-124	50 LF
FO PB, INSTALL SRM	635-2-12	1 EA

3-2" HDD	630-2-12	250 LF
144 SMFOC	633-1-124	250 LF

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

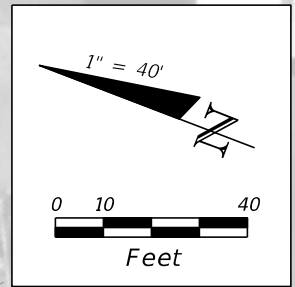


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (15)

SHEET NO.
IT-32

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (15)

MATCHLINE ATMS PLAN (17)

3-2" HDD	630-2-12	234 LF
144 SMFOC	633-1-124	234 LF

50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

3-2" HDD	630-2-12	323 LF
144 SMFOC	633-1-124	323 LF

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

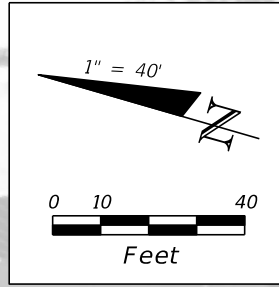


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (16)

SHEET NO.
 IT-33

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (16)

EXIST. R/W

EXIST. R/W

EXIST. R/W

EXIST. R/W

SR 296 (BRENT LN)

SR 296 (BEVERLY PKWY)

N PALAFOX ST

50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

20 LF	633-1-121	12 SMFOC COIL
1 EA	633-3-13	PRETERM. CONNECTOR ASSEMBLY
1 EA	633-3-16	FIELD TERM. PP
1 EA	633-3-17	CONN. PANEL
1 EA	684-1-1	MFES

EXISTING SIGNAL CABINET

REPLACE EXISTING PB WITH FO PB.
12 SMFOC DROP TO BE ROUTED TO
EXISTING CABINET VIA EXISTING
CONDUIT RACEWAYS FROM THIS
PULL BOX

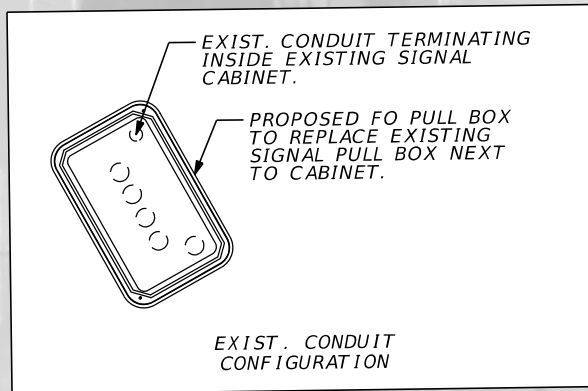
3-2" UG CONDUIT	630-2-11	33 LF
144 SMFOC	633-1-124	33 LF

10 LF	633-1-121	12 SMFOC
50 LF	633-1-121	12 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

8 LF	630-2-11	1-2" UG CONDUIT
8 LF	633-1-121	12 SMFOC

100 LF	633-1-121	12 SMFOC COIL
200 LF	633-1-124	144 SMFOC COIL
4 EA	633-2-31	FOC SPLICE
1 EA	633-3-11	SPLICE ENCLOSURE
1 EA	633-3-12	SPLICE TRAY
1 EA	635-2-13	FO SPLICE BOX, INSTALL ERM

61 LF	630-2-12	3-2" HDD
61 LF	633-1-124	144 SMFOC



REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

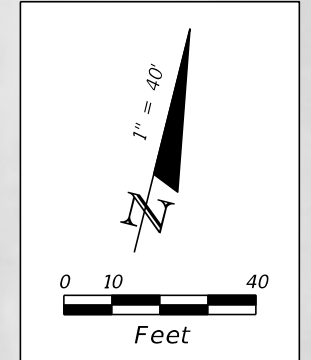


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (17)

SHEET NO.
IT-34

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



144 SMFOC COIL	633-1-124	200 LF
FOC SPLICE	633-2-31	144 EA
SPLICE ENCLOSURE	633-3-11	1 EA
SPLICE TRAY	633-3-12	12 EA
FO SPLICE BOX, INSTALL ERM	635-2-13	1 EA

3-2" HDD	630-2-12	239 LF
144 SMFOC	633-1-124	239 LF

12 SMFOC COIL	633-1-121	100 LF
144 SMFOC COIL	633-1-124	200 LF
FOC SPLICE	633-2-31	4 EA
SPLICE ENCLOSURE	633-3-11	1 EA
SPLICE TRAY	633-3-12	1 EA
FO SPLICE BOX, INSTALL ERM	635-2-13	1 EA

3-2" UG CONDUIT	630-2-11	10 LF
144 SMFOC	633-1-124	10 LF

1-2" UG CONDUIT	630-2-11	36 LF
12 SMFOC	633-1-121	36 LF

3-2" HDD	630-2-12	141 LF
144 SMFOC	633-1-124	141 LF

REPLACE EXISTING PB WITH FO PB.
12 SMFOC DROP TO BE ROUTED TO EXISTING CABINET VIA EXISTING CONDUIT RACEWAYS FROM THIS PULL BOX

12 SMFOC	633-1-121	10 LF
12 SMFOC COIL	633-1-121	50 LF
FO PB, INSTALL SRM	635-2-12	1 EA

EXISTING SIGNAL CABINET

12 SMFOC COIL	633-1-121	20 LF
PRETERM. CONNECTOR ASSEMBLY	633-3-13	1 EA
FIELD TERM. PP	633-3-16	1 EA
CONN. PANEL	633-3-17	1 EA
MFES	684-1-1	1 EA

PROPOSED 12.5' x 12' TYPE B FENCE WITH BARB WIRE ATTMT

550-10-221	49 LF	
FOC TERMINATION	633-2-32	144 EA
SPLICE TRAY	633-3-12	12 EA
PRETERM CONNECTOR ASSEMBLY	633-3-13	12 EA
PATCH PANEL	633-3-16	12 EA
CONNECTOR PANEL	633-3-17	1 EA
ELECT. PULL BOX	635-2-14	1 EA
DISCONNECT	639-3-11	1 EA
P-11 SERVICE POLE	641-2-12	1 EA
TYPE 340 HUB CABINET	676-2-146	1 EA
L3 SWITCH RUCKUS ICX-7550 x 48F SWITCH	684-7-1	1 EA
UPS, 1-MASTER HUB, 1-AC	685-1-12	2 EA
RPMU	685-2-1	1 EA

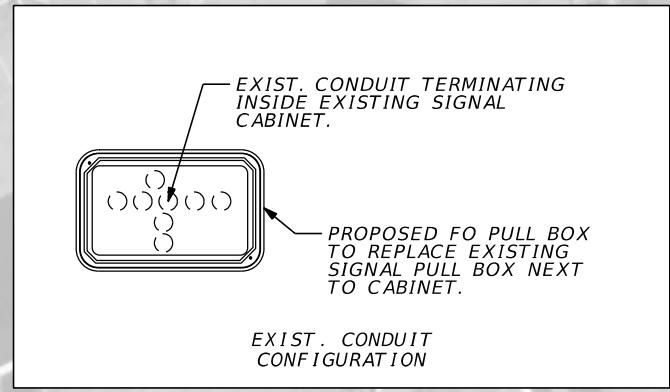
2-2" HDD	630-2-12	130 LF
	639-2-1	130 LF

SEE IT-88 FOR CONDUCTOR SIZE

4" SIDEWALK	522-1	2 SY
ELECT. PULL BOX	635-2-14	1 EA
ELECTRICAL POWER SERVICE	639-1-122	1 AS

EXISTING POWER POLE WITH TRANSFORMER. 120V/240V, 3-WIRE, SINGLE PHASE POWER SERVICE REQUEST POLE# 12512-53207


NOTE:
ALL CONDUITS FURNISHED AND INSTALLED BY HDD METHOD CONTAIN 1 FOR FOC AND 2 FOR SPARE.




MATCHLINE ATMS PLAN (19)

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

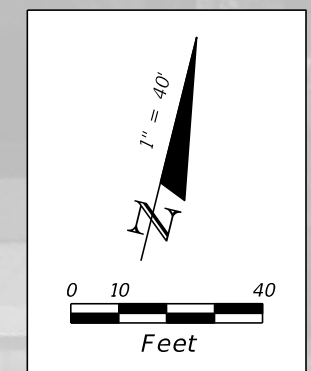


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (18)

10/27/2025 12:31:05 AM PW:\

SHEET NO.
IT-35



3-2" HDD 630-2-12 317 LF
144 SMFOC 633-1-124 317 LF

50 LF 633-1-124 144 SMFOC COIL
1 EA 635-2-12 FO PB, INSTALL SRM

3-2" HDD 630-2-12 228 LF
144 SMFOC 633-1-124 228 LF

EXIST. R/W

SR 727 (W FAIRFIELD DR)

EXIST. R/W

MATCHLINE ATMS PLAN (18)

MATCHLINE ATMS PLAN (20)

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (19)

SHEET NO.
IT-36

12 SMFOC COIL	633-1-121	20 LF
PRETERM. CONNECTOR ASSEMBLY	633-3-13	1 EA
FIELD TERM. PP	633-3-16	1 EA
CONN. PANEL	633-3-17	1 EA
MFES	684-1-1	1 EA

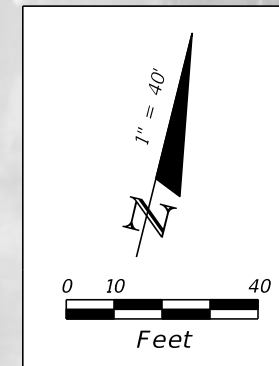
EXISTING SIGNAL CABINET

1-2" HDD	630-2-12	35 LF
12 SMFOC	633-1-121	35 LF

3-2" HDD	630-2-12	153 LF
144 SMFOC	633-1-124	153 LF

3-2" HDD	630-2-12	410 LF
144 SMFOC	633-1-124	410 LF

100 LF	633-1-121	12 SMFOC COIL
200 LF	633-1-124	144 SMFOC COIL
4 EA	633-2-31	FOC SPLICE
1 EA	633-3-11	SPLICE ENCLOSURE
1 EA	633-3-12	SPLICE TRAY
1 EA	635-2-13	FO SPLICE BOX, INSTALL ERM



MATCHLINE ATMS PLAN (19)

MATCHLINE ATMS PLAN (21)

CONSTRUCTION NOTES:

- LOCATE A CLEAR SPOT INSIDE THE EXISTING CONCRETE CABINET BASE, SECURE AND PROTECT THE EXISTING CABLES TO AVOID INJURY TO THEM, AND CORE DRILL A HOLE FOR THE PROPOSED FOC DROP CABLE. COVER ALL ELECTRONIC AND SENSITIVE EQUIPMENT TO PREVENT DUCT ACCUMULATION OVER THE EQUIPMENT. REMOVE THE MUDDY RESIDUE AND ALL WATER WITH VACUUM AND CLEANUP BEFORE IT DRIES OUT.
- INSTALL 1- 2" CONDUIT FROM PROPOSED FOSB TO THE CORE DRILLED HOLE AT THE BASE OF CABINET AND INSTALL THE 12 SMFOC DROP CABLE TO BE TERMINATED IN THE PATCH PANEL.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

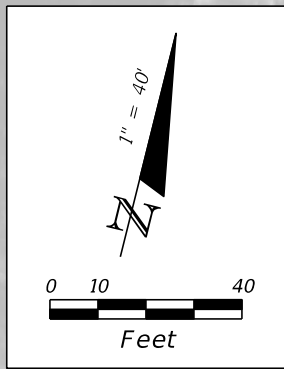


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (20)

SHEET NO.
IT-37

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



3-2" HDD 630-2-12 54 LF
144 SMFOC 633-1-124 54 LF

50 LF 633-1-124 144 SMFOC COIL
1 EA 635-2-12 FO PB, INSTALL SRM

3-2" HDD 630-2-12 501 LF
144 SMFOC 633-1-124 501 LF

3-2" HDD 630-2-12 6 LF
144 SMFOC 633-1-124 6 LF

50 LF 633-1-124 144 SMFOC COIL
1 EA 635-2-12 FO PB, INSTALL SRM

SR 727 (W FAIRFIELD DR)

EXIST. R/W

EXIST. LA R/W

MATCHLINE ATMS PLAN (20)

MATCHLINE ATMS PLAN (22)

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

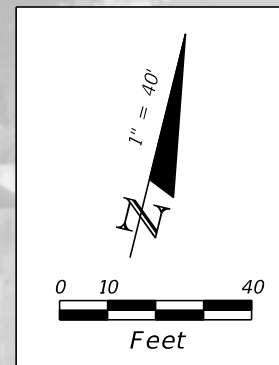


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (21)

SHEET NO.
IT-38

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (21)



MATCHLINE ATMS PLAN (23)

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945



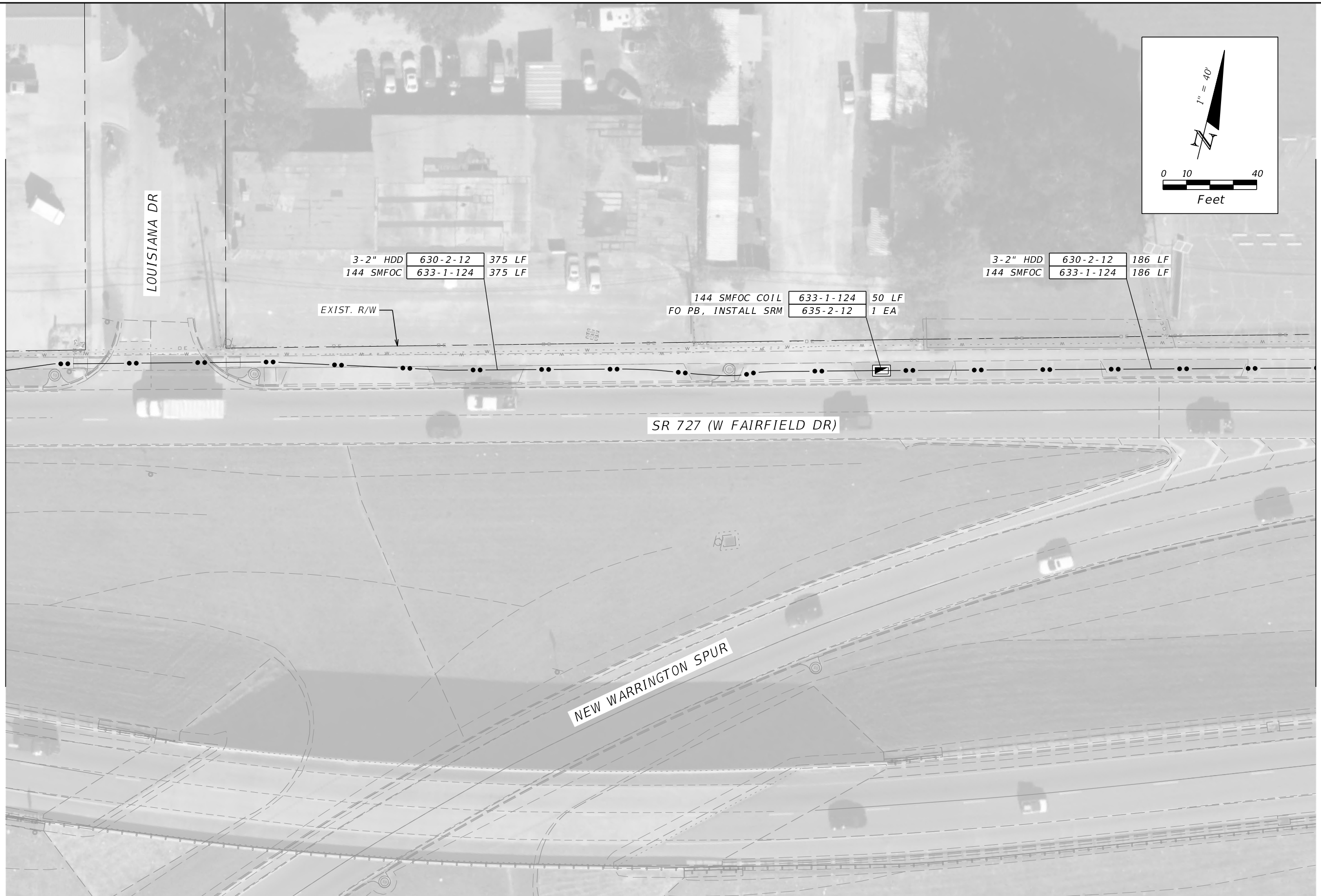
ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (22)

SHEET NO.
 IT-39

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCHLINE ATMS PLAN (22)

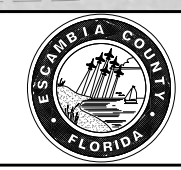


MATCHLINE ATMS PLAN (24)

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

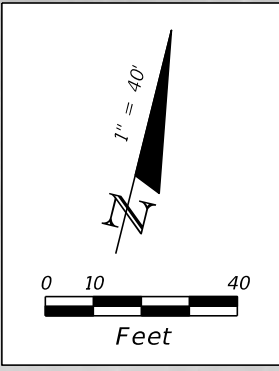
ATMS PLAN (23)

SHEET NO.
 IT-40

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCHLINE ATMS PLAN (23)

MATCHLINE ATMS PLAN (25)



3-2" HDD 630-2-12 290 LF
144 SMFOC 633-1-124 290 LF

3-2" HDD 630-2-12 270 LF
144 SMFOC 633-1-124 270 LF

144 SMFOC COIL 633-1-124 50 LF
FO PB, INSTALL SRM 635-2-12 1 EA

EXIST. R/W

EMERALD AVE

SR 727 (W FAIRFIELD DR)

EXIST. LA R/W

REVISIONS	
DATE	DESCRIPTION



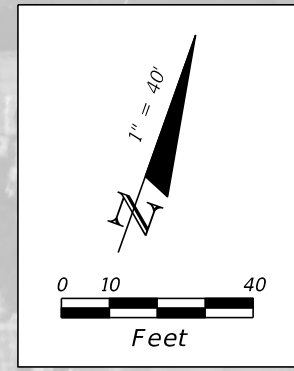
GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (24)

SHEET NO.
IT-41



3-2" HDD	630-2-12	230 LF	144 SMFOC COIL	633-1-124	50 LF	3-2" HDD	630-2-12	328 LF
144 SMFOC	633-1-124	230 LF	FO PB, INSTALL SRM	635-2-12	1 EA	144 SMFOC	633-1-124	328 LF

EXIST. R/W

SR 727 (W FAIRFIELD DR)

EXIST. LA R/W

W BOBE ST

MATCHLINE ATMS PLAN (24)

MATCHLINE ATMS PLAN (26)

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

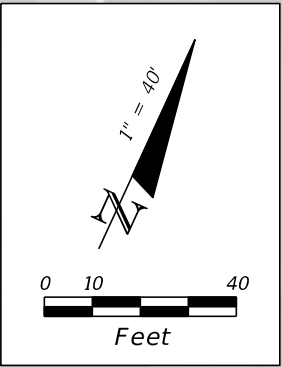


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (25)

SHEET NO.

IT-42



3-2" HDD	630-2-12	106 LF	50 LF	633-1-124	144 SMFOC COIL	3-2" HDD	630-2-12	335 LF
144 SMFOC	633-1-124	106 LF	1 EA	635-2-12	FO PB, INSTALL SRM	144 SMFOC	633-1-124	335 LF

12 SMFOC COIL	633-1-121	20 LF
PRETERM. CONNECTOR ASSEMBLY	633-3-13	1 EA
FIELD TERM. PP	633-3-16	1 EA
CONN. PANEL	633-3-17	1 EA
MFES	684-1-1	1 EA
EXISTING SIGNAL CABINET		

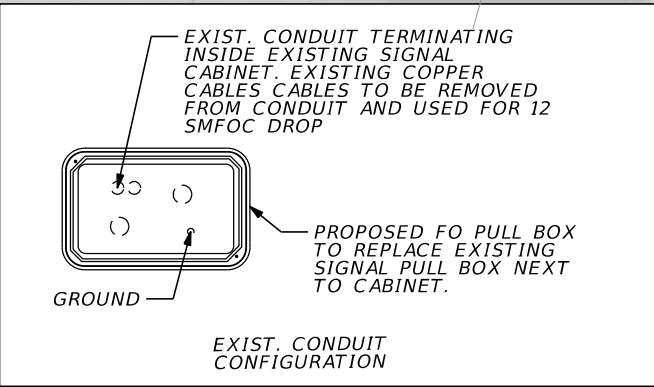
1-2" HDD	630-2-12	26 LF
12 SMFOC	633-1-121	26 LF

3-2" HDD	630-2-12	114 LF
144 SMFOC	633-1-124	114 LF

12 SMFOC COIL	633-1-121	100 LF
144 SMFOC COIL	633-1-124	200 LF
FOC SPLICE	633-2-31	4 EA
SPLICE ENCLOSURE	633-3-11	1 EA
SPLICE TRAY	633-3-12	1 EA
FO SPLICE BOX, INSTALL ERM	635-2-13	1 EA

10 LF	633-1-121	12 SMFOC
50 LF	633-1-121	12 SMFOC COIL
50 LF	633-4-16	REMOVE EXIST. COPPER CABLE
1 EA	635-2-12	FO PB, INSTALL SRM

REPLACE EXISTING PB WITH FO PB.
EXIST. COPPER CABLE TO BE REMOVED AND 12 SMFOC DROP TO BE ROUTED TO EXISTING CABINET VIA EXISTING CONDUIT RACEWAYS FROM THIS PULL BOX.



EXIST. LA R/W

EXIST. R/W

SR 295 (W FAIRFIELD DR)

MATCHLINE ATMS PLAN (25)

MATCHLINE ATMS PLAN (27)

RUBY AVE

EXIST. R/W

REVISIONS	
DATE	DESCRIPTION



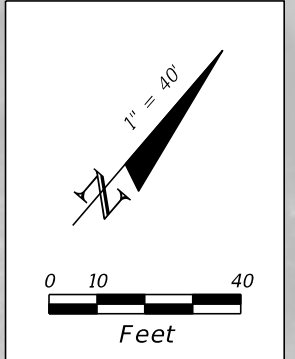
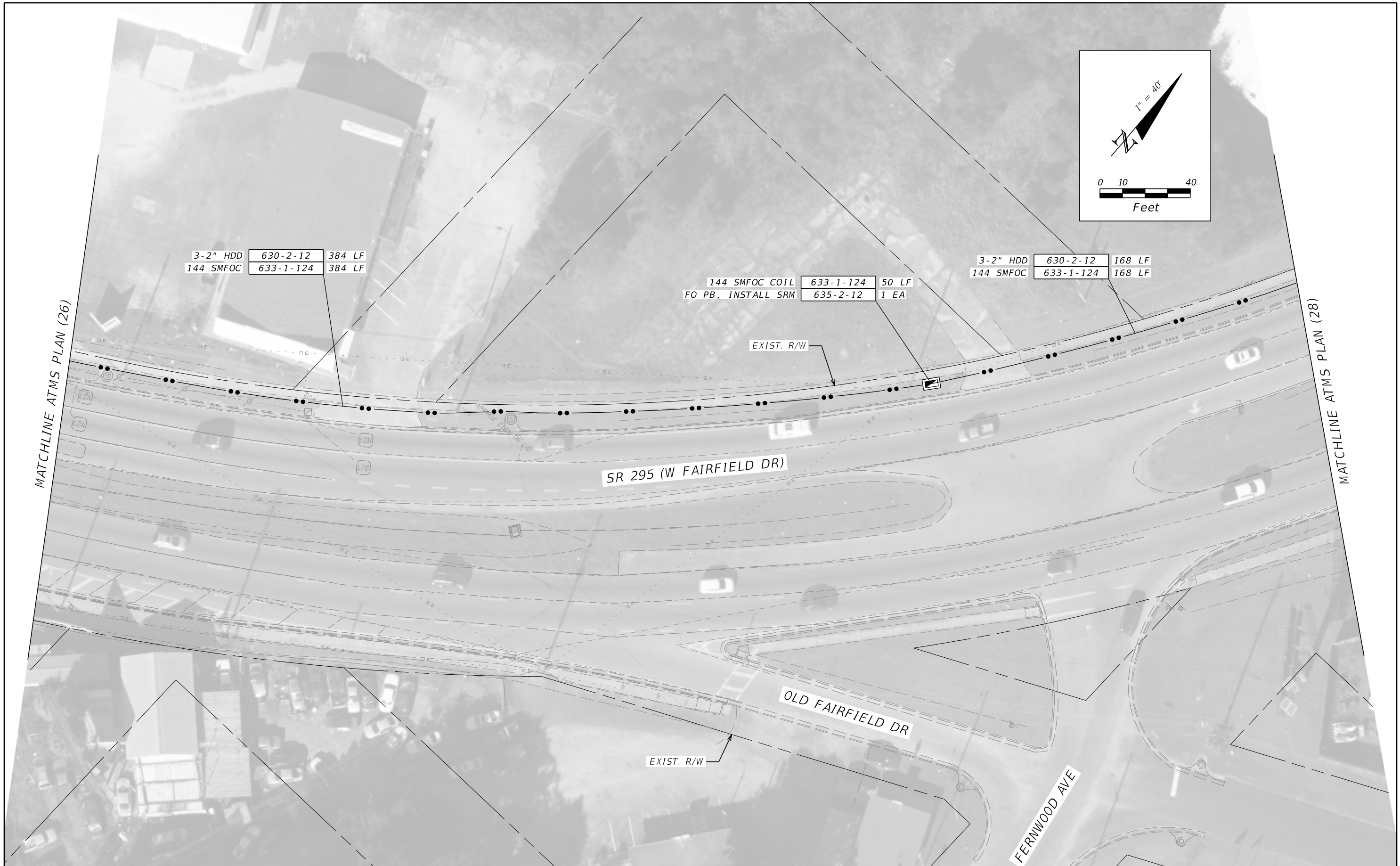
GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (26)

SHEET NO.
IT-43



3-2" HDD 630-2-12 384 LF
 144 SMFOC 633-1-124 384 LF

144 SMFOC COIL 633-1-124 50 LF
 FO PB, INSTALL SRM 635-2-12 1 EA

3-2" HDD 630-2-12 168 LF
 144 SMFOC 633-1-124 168 LF

MATCHLINE ATMS PLAN (26)

MATCHLINE ATMS PLAN (28)

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

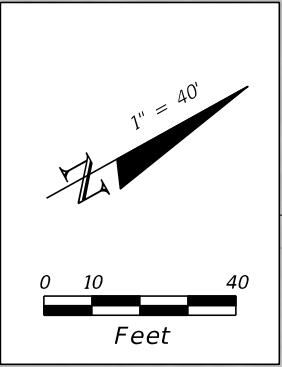


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (27)

SHEET NO.
 IT-44

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (27)

MATCHLINE ATMS PLAN (29)

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

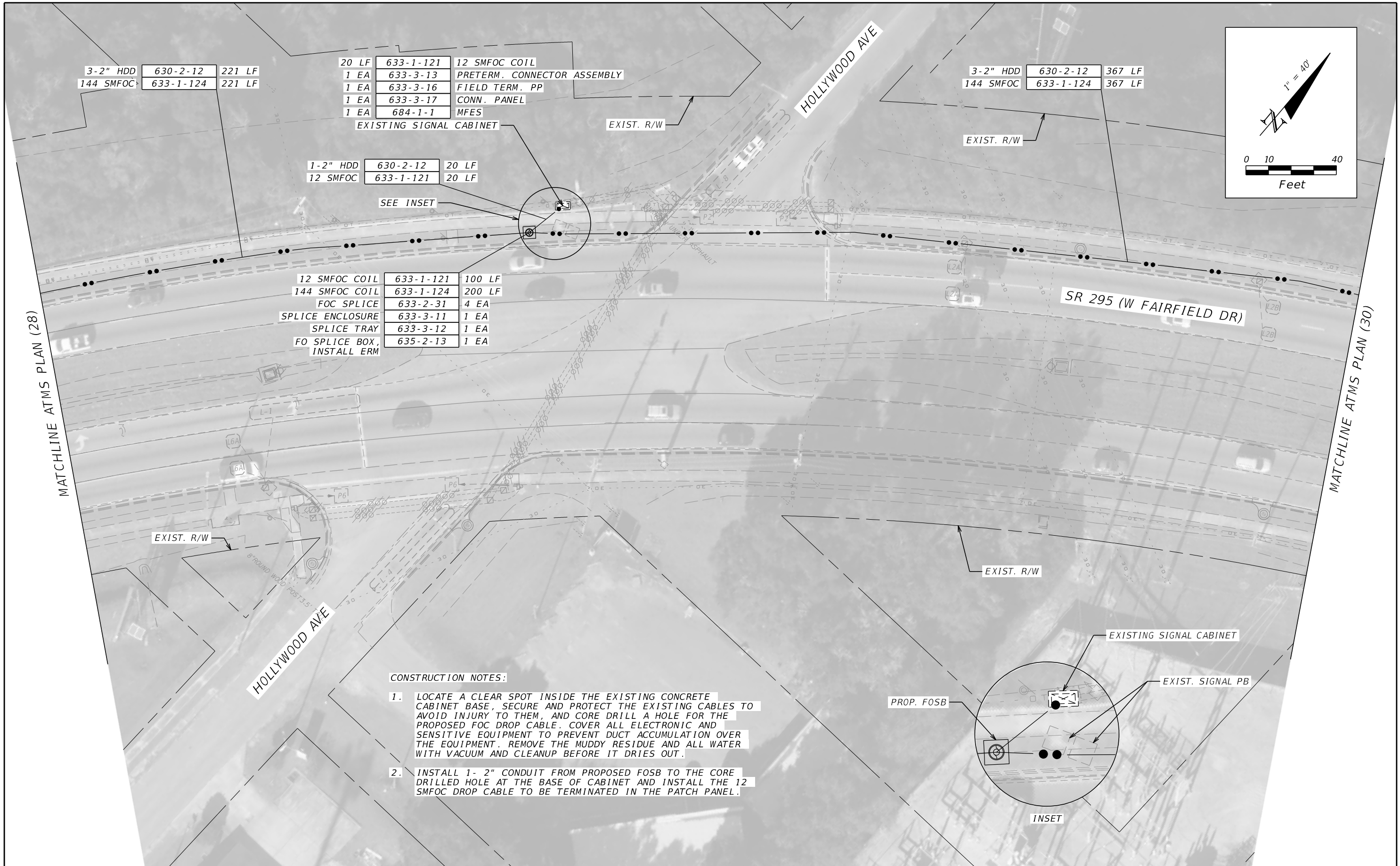


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (28)

SHEET NO.
IT-45

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



3-2" HDD	630-2-12	221 LF
144 SMFOC	633-1-124	221 LF

20 LF	633-1-121	12 SMFOC COIL
1 EA	633-3-13	PRETERM. CONNECTOR ASSEMBLY
1 EA	633-3-16	FIELD TERM. PP
1 EA	633-3-17	CONN. PANEL
1 EA	684-1-1	MFES

EXISTING SIGNAL CABINET

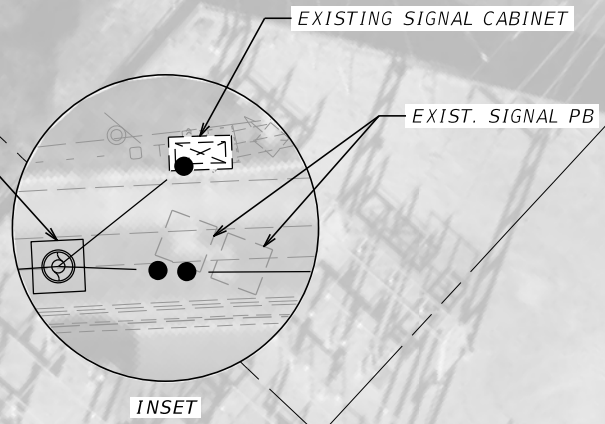
3-2" HDD	630-2-12	367 LF
144 SMFOC	633-1-124	367 LF

1-2" HDD	630-2-12	20 LF
12 SMFOC	633-1-121	20 LF

12 SMFOC COIL	633-1-121	100 LF
144 SMFOC COIL	633-1-124	200 LF
FOC SPLICE	633-2-31	4 EA
SPLICE ENCLOSURE	633-3-11	1 EA
SPLICE TRAY	633-3-12	1 EA
FO SPLICE BOX, INSTALL ERM	635-2-13	1 EA

CONSTRUCTION NOTES:

1. LOCATE A CLEAR SPOT INSIDE THE EXISTING CONCRETE CABINET BASE, SECURE AND PROTECT THE EXISTING CABLES TO AVOID INJURY TO THEM, AND CORE DRILL A HOLE FOR THE PROPOSED FOC DROP CABLE. COVER ALL ELECTRONIC AND SENSITIVE EQUIPMENT TO PREVENT DUCT ACCUMULATION OVER THE EQUIPMENT. REMOVE THE MUDDY RESIDUE AND ALL WATER WITH VACUUM AND CLEANUP BEFORE IT DRIES OUT.
2. INSTALL 1- 2" CONDUIT FROM PROPOSED FOSB TO THE CORE DRILLED HOLE AT THE BASE OF CABINET AND INSTALL THE 12 SMFOC DROP CABLE TO BE TERMINATED IN THE PATCH PANEL.



REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

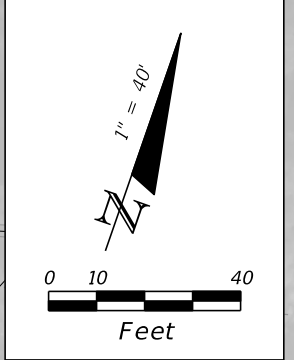
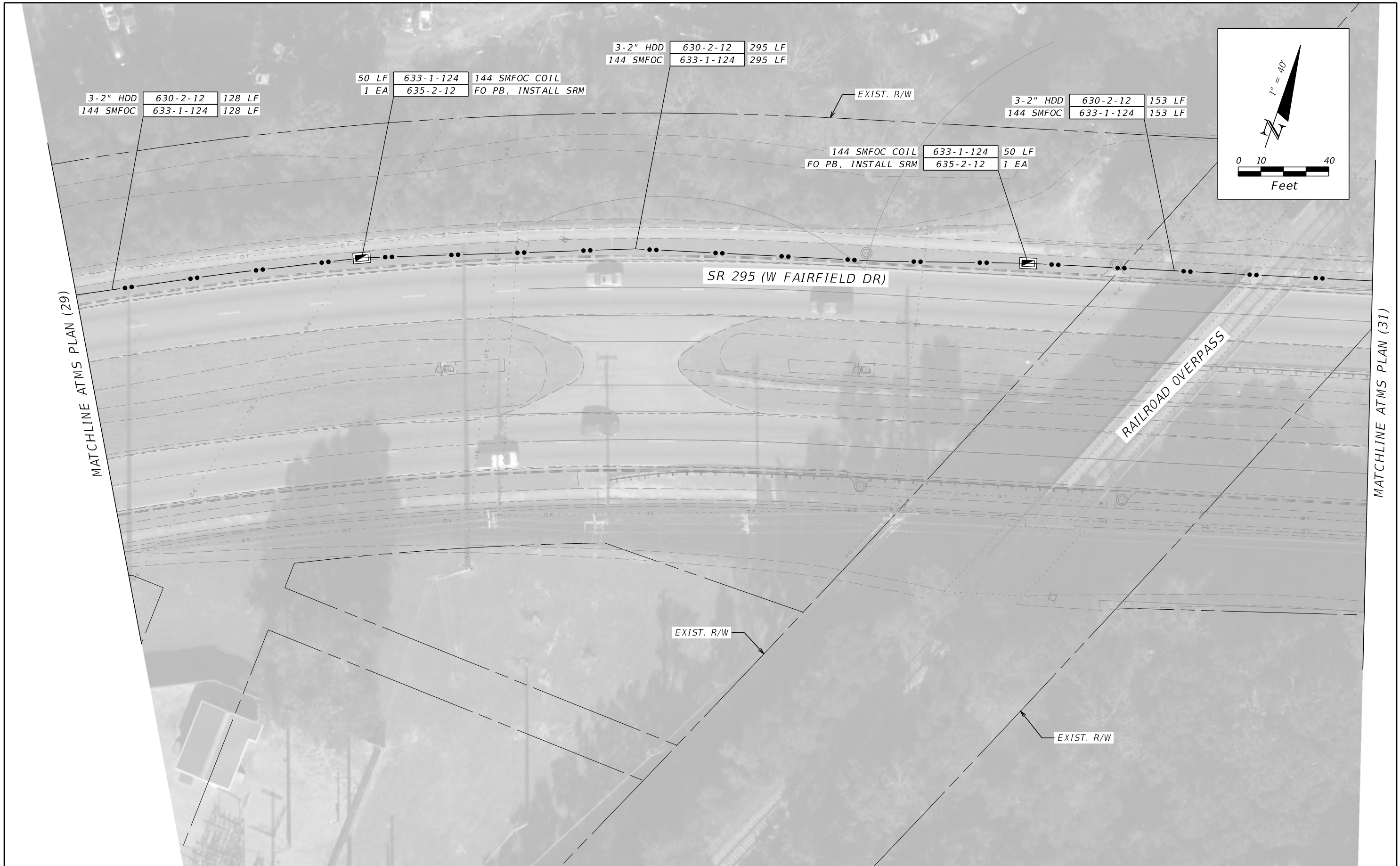


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (29)

SHEET NO.
IT-46

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (29)

MATCHLINE ATMS PLAN (31)

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



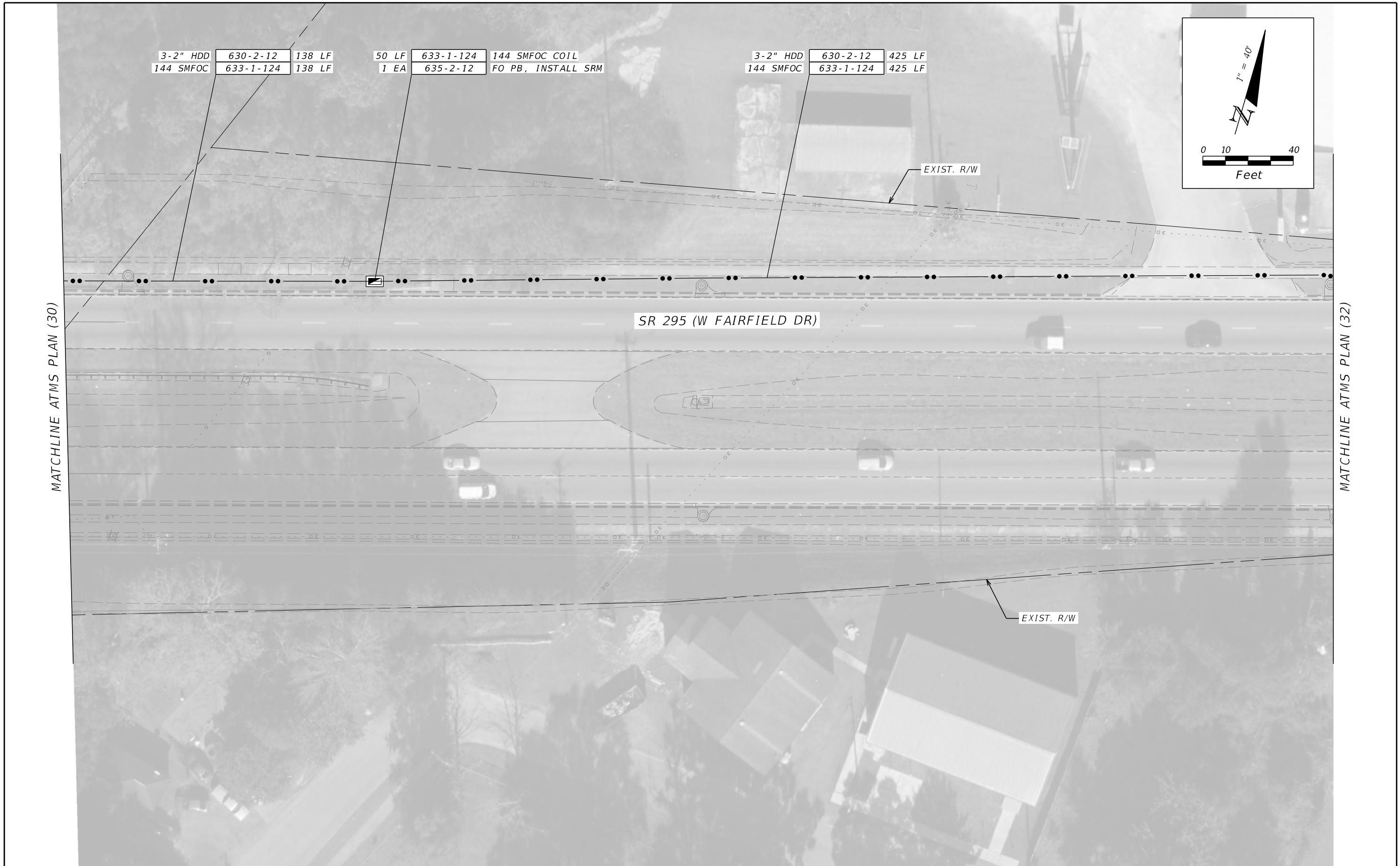
GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (30)

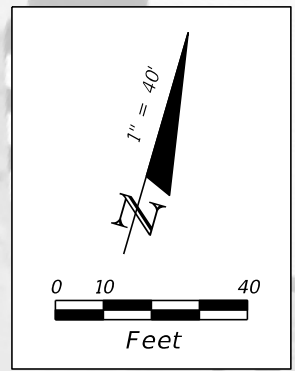
SHEET NO.
IT-47



3-2" HDD	630-2-12	138 LF
144 SMFOC	633-1-124	138 LF

50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

3-2" HDD	630-2-12	425 LF
144 SMFOC	633-1-124	425 LF



MATCHLINE ATMS PLAN (30)

MATCHLINE ATMS PLAN (32)

SR 295 (W FAIRFIELD DR)

EXIST. R/W

EXIST. R/W

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

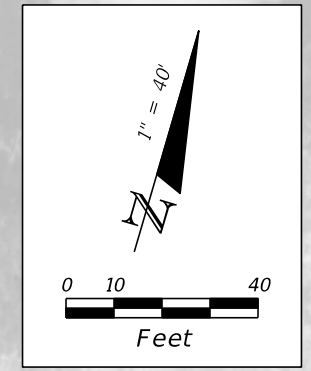


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (31)

SHEET NO.
IT-48

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



3-2" HDD	630-2-12	33 LF
144 SMFOC	633-1-124	33 LF

3-2" HDD	630-2-12	470 LF
144 SMFOC	633-1-124	470 LF

50 LF	633-1-124	144 SMFOC COIL
1 EA	635-2-12	FO PB, INSTALL SRM

144 SMFOC COIL	633-1-124	50 LF
FO PB, INSTALL SRM	635-2-12	1 EA

3-2" HDD	630-2-12	59 LF
144 SMFOC	633-1-124	59 LF

MATCHLINE ATMS PLAN (31)

MATCHLINE ATMS PLAN (33)

SR 295 (W FAIRFIELD DR)

MATTHEW LN

PEAGLER PLAZA RD

EXIST. R/W

EXIST. R/W

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

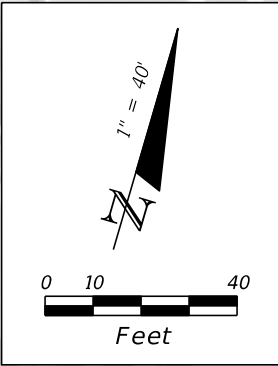


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (32)

SHEET NO.

IT-49



214 LF 630-2-12 3-2" HDD
214 LF 633-1-124 144 SMFOC

50 LF 633-1-124 144 SMFOC COIL
1 EA 635-2-12 FO PB, INSTALL SRM

347 LF 630-2-12 3-2" HDD
347 LF 633-1-124 144 SMFOC

MARKET ST

EXIST. R/W

SR 295 (W FAIRFIELD DR)

MISSION RD

EXIST. R/W

MATCHLINE ATMS PLAN (32)

MATCHLINE ATMS PLAN (34)

REVISIONS	
DATE	DESCRIPTION



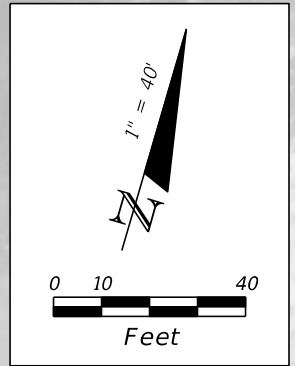
GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (33)

SHEET NO.
IT-50



144 LF 630-2-12 3-2" HDD
144 LF 633-1-124 144 SMFOC

50 LF 633-1-124 144 SMFOC COIL
1 EA 635-2-12 FO PB, INSTALL SRM

417 LF 630-2-12 3-2" HDD
417 LF 633-1-124 144 SMFOC

EXIST. R/W

SR 295 (W FAIRFIELD DR)

EXIST. R/W

MATCHLINE ATMS PLAN (33)

MATCHLINE ATMS PLAN (35)

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

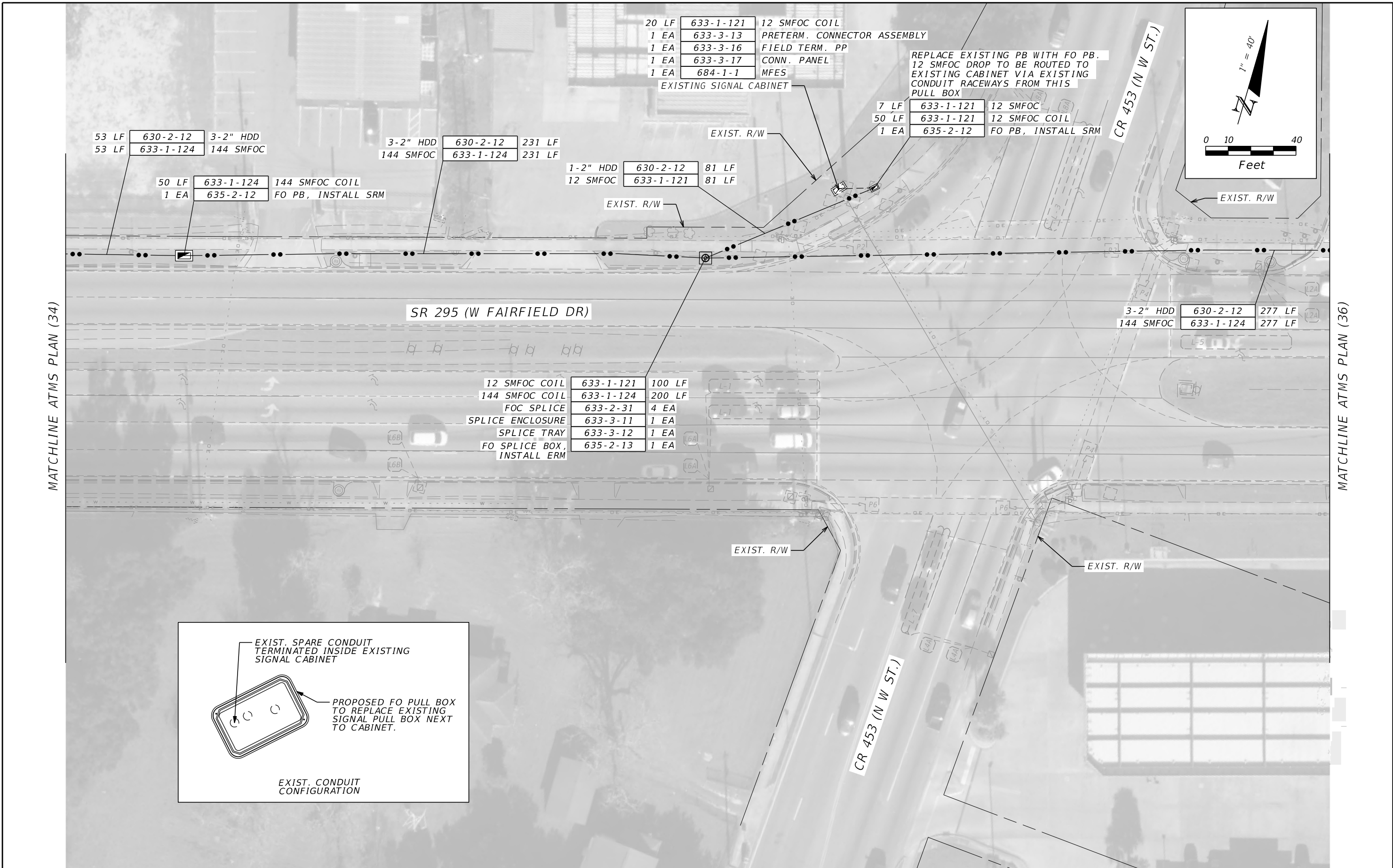


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (34)

SHEET NO.

IT-51



REVISIONS	
DATE	DESCRIPTION

HDR

GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

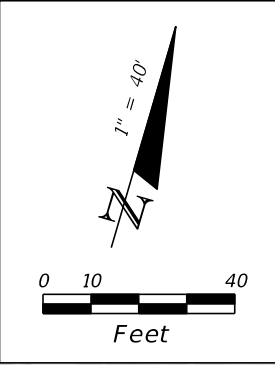
ESCAMBIA COUNTY
ENGINEERING DEPARTMENT

US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (35)

SHEET NO.	IT-52
-----------	-------

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (35)


MATCHLINE ATMS PLAN (37)



REVISIONS	
DATE	DESCRIPTION

HDR

GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945



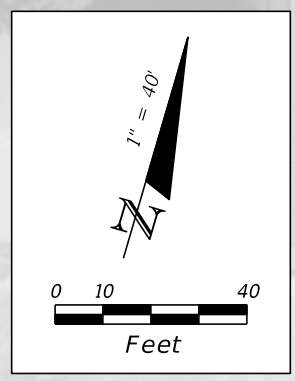
ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT

US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (36)

SHEET NO.
IT-53


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




MATCHLINE ATMS PLAN (36)

MATCHLINE ATMS PLAN (38)

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

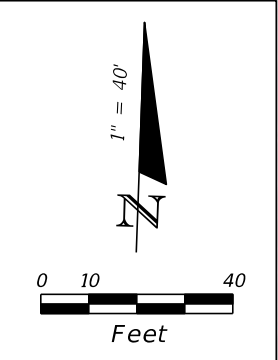


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (37)

SHEET NO.
IT-54

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



50 LF 633-1-124 144 SMFOC COIL
 1 EA 635-2-12 FO PB, INSTALL SRM

87 LF 630-2-12 3-2" HDD
 87 LF 633-1-124 144 SMFOC

488 LF 630-2-12 3-2" HDD
 488 LF 633-1-124 144 SMFOC

MATCHLINE ATMS PLAN (37)

MATCHLINE ATMS PLAN (39)

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945



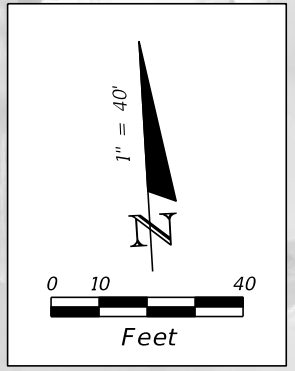
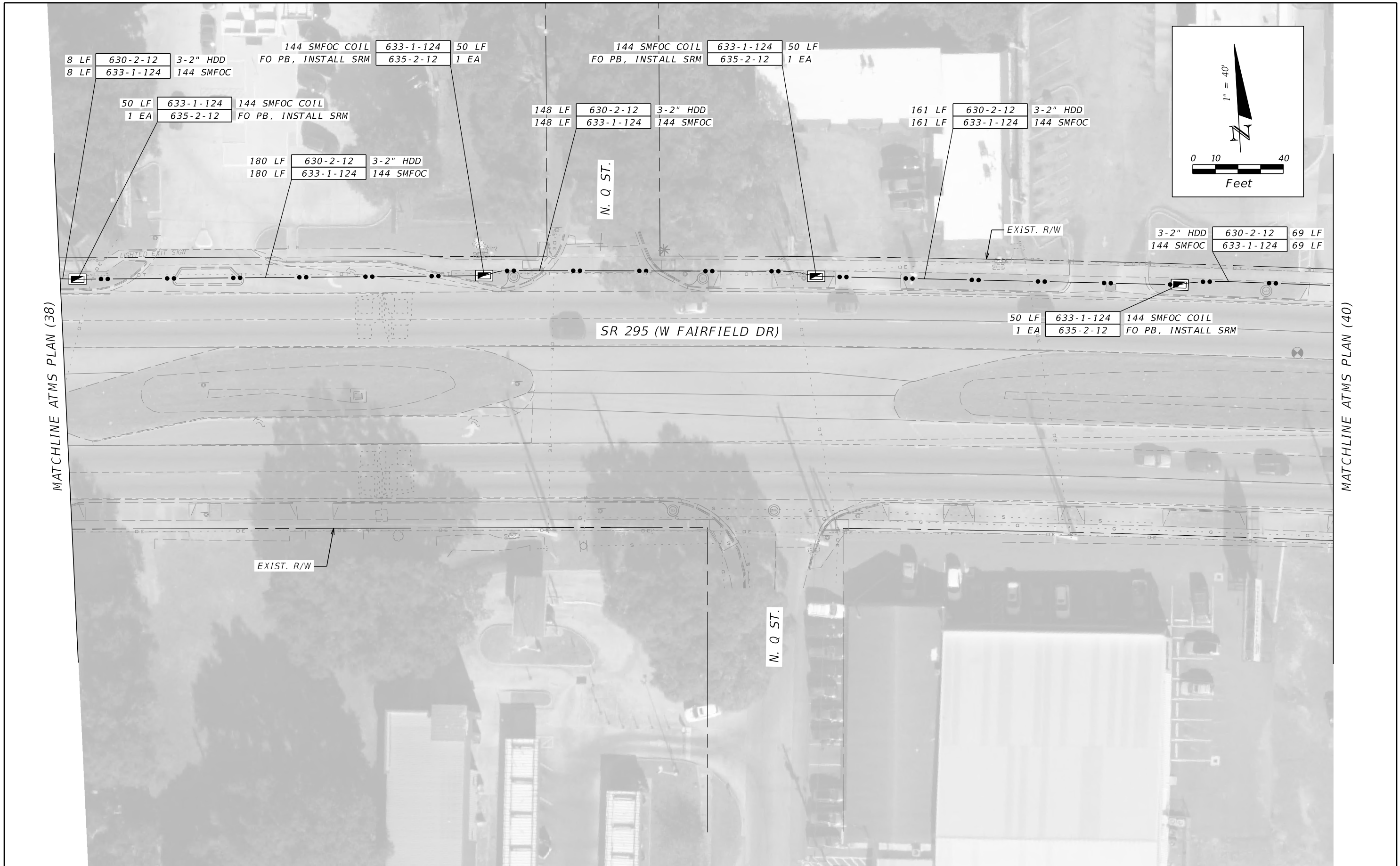
ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT

US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (38)

SHEET NO.
 IT-55

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (38)

MATCHLINE ATMS PLAN (40)

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

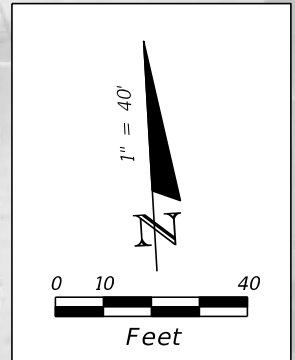


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (39)

SHEET NO.
 IT-56

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



12 SMFOC COIL	633-1-121	20 LF
PRETERM. CONNECTOR ASSEMBLY	633-3-13	1 EA
FIELD TERM. PP	633-3-16	1 EA
CONN. PANEL	633-3-17	1 EA
MFES	684-1-1	1 EA

EXISTING SIGNAL CABINET

1-2" HDD	630-2-12	25 LF
12 SMFOC	633-1-121	25 LF

EXIST. R/W

3-2" HDD	630-2-12	201 LF
144 SMFOC	633-1-124	201 LF

EXIST. R/W

REPLACE EXISTING PB WITH FO PB.
EXIST. COPPER CABLE TO BE
REMOVED AND 12 SMFOC DROP TO
BE ROUTED TO EXISTING CABINET
VIA EXISTING CONDUIT RACEWAYS
FROM THIS PULL BOX.

5 LF	633-1-121	12 SMFOC
50 LF	633-1-121	12 SMFOC COIL
50 LF	633-4-16	REMOVE EXIST. COPPER CABLE
1 EA	635-2-12	FO PB, INSTALL SRM

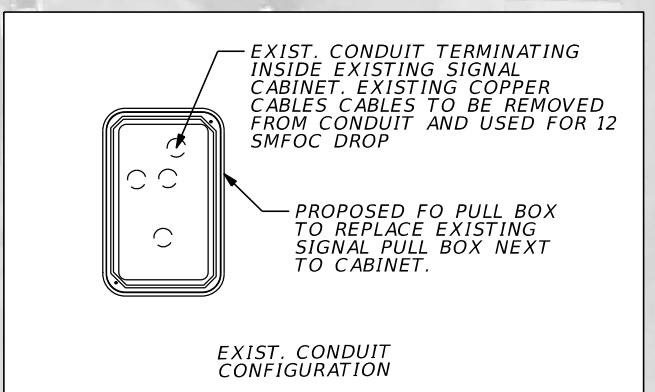
12 SMFOC COIL	633-1-121	100 LF
144 SMFOC COIL	633-1-124	200 LF
FOC SPLICE	633-2-31	4 EA
SPLICE ENCLOSURE	633-3-11	1 EA
SPLICE TRAY	633-3-12	1 EA
FO SPLICE BOX, INSTALL ERM	635-2-13	1 EA

361 LF	630-2-12	3-2" HDD
361 LF	633-1-124	144 SMFOC

SR 295 (W FAIRFIELD DR)

EXIST. R/W

N. P. ST.



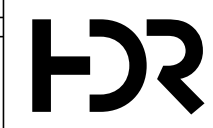
SR 292 (N. PACE BLVD)

EXIST. R/W

MATCHLINE ATMS PLAN (39)

MATCHLINE ATMS PLAN (41)

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

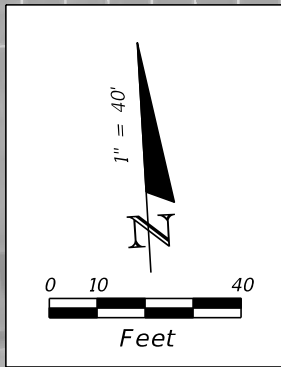


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (40)

SHEET NO.

IT-57



240 LF 630-2-12 3-2" HDD
240 LF 633-1-124 144 SMFOC

50 LF 633-1-124 144 SMFOC COIL
1 EA 635-2-12 FO PB, INSTALL SRM

321 LF 630-2-12 3-2" HDD
321 LF 633-1-124 144 SMFOC

EXIST. R/W

SR 295 (W FAIRFIELD DR)

EXIST. R/W

MATCHLINE ATMS PLAN (40)

MATCHLINE ATMS PLAN (42)

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



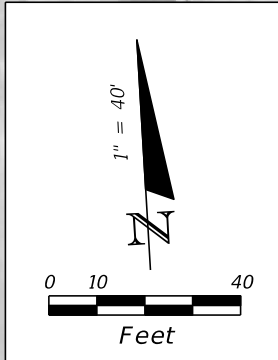
ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (41)

SHEET NO.
IT-58

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCHLINE ATMS PLAN (41)




MATCHLINE ATMS PLAN (43)

REVISIONS	
DATE	DESCRIPTION

HDR

GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT

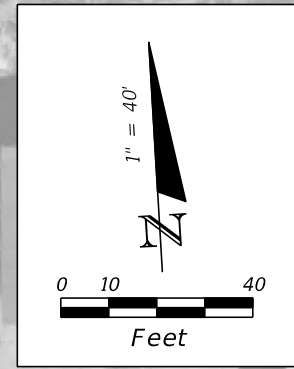
US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (42)

GSTEVANU 10/27/2025 1:01:55 AM PW:\

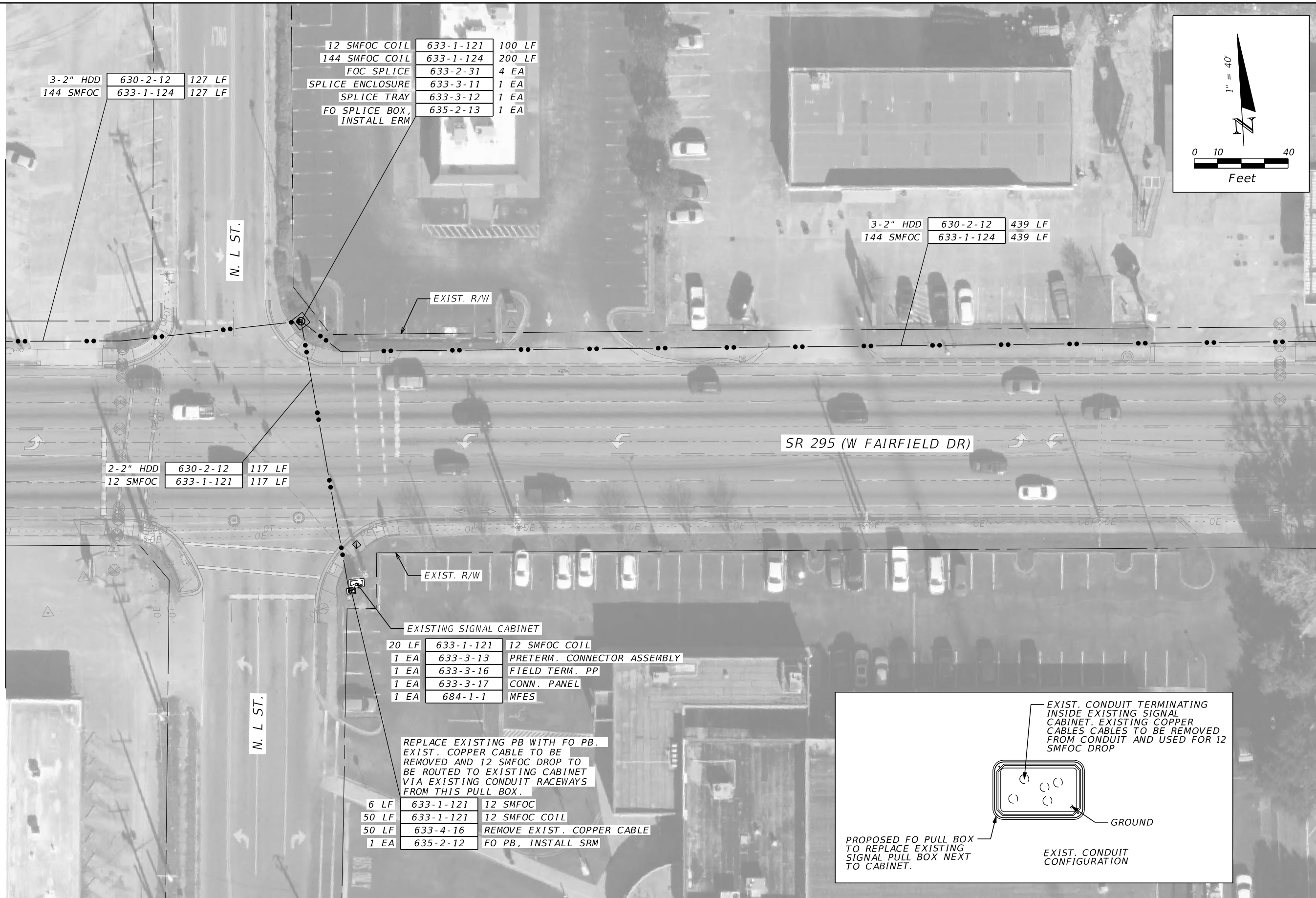
SHEET NO.
IT-59

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE ATMS PLAN (42)

MATCHLINE ATMS PLAN (44)



3-2" HDD	630-2-12	127 LF
144 SMFOC	633-1-124	127 LF

12 SMFOC COIL	633-1-121	100 LF
144 SMFOC COIL	633-1-124	200 LF
FOC SPLICE	633-2-31	4 EA
SPLICE ENCLOSURE	633-3-11	1 EA
SPLICE TRAY	633-3-12	1 EA
FO SPLICE BOX, INSTALL ERM	635-2-13	1 EA

3-2" HDD	630-2-12	439 LF
144 SMFOC	633-1-124	439 LF

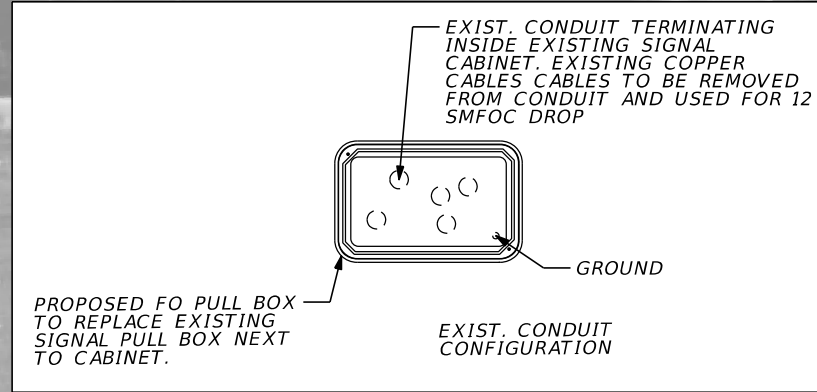
2-2" HDD	630-2-12	117 LF
12 SMFOC	633-1-121	117 LF

EXISTING SIGNAL CABINET

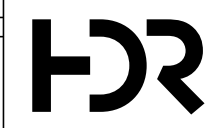
20 LF	633-1-121	12 SMFOC COIL
1 EA	633-3-13	PRETERM. CONNECTOR ASSEMBLY
1 EA	633-3-16	FIELD TERM. PP
1 EA	633-3-17	CONN. PANEL
1 EA	684-1-1	MFES

REPLACE EXISTING PB WITH FO PB.
EXIST. COPPER CABLE TO BE REMOVED AND 12 SMFOC DROP TO BE ROUTED TO EXISTING CABINET VIA EXISTING CONDUIT RACEWAYS FROM THIS PULL BOX.

6 LF	633-1-121	12 SMFOC
50 LF	633-1-121	12 SMFOC COIL
50 LF	633-4-16	REMOVE EXIST. COPPER CABLE
1 EA	635-2-12	FO PB, INSTALL SRM



REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

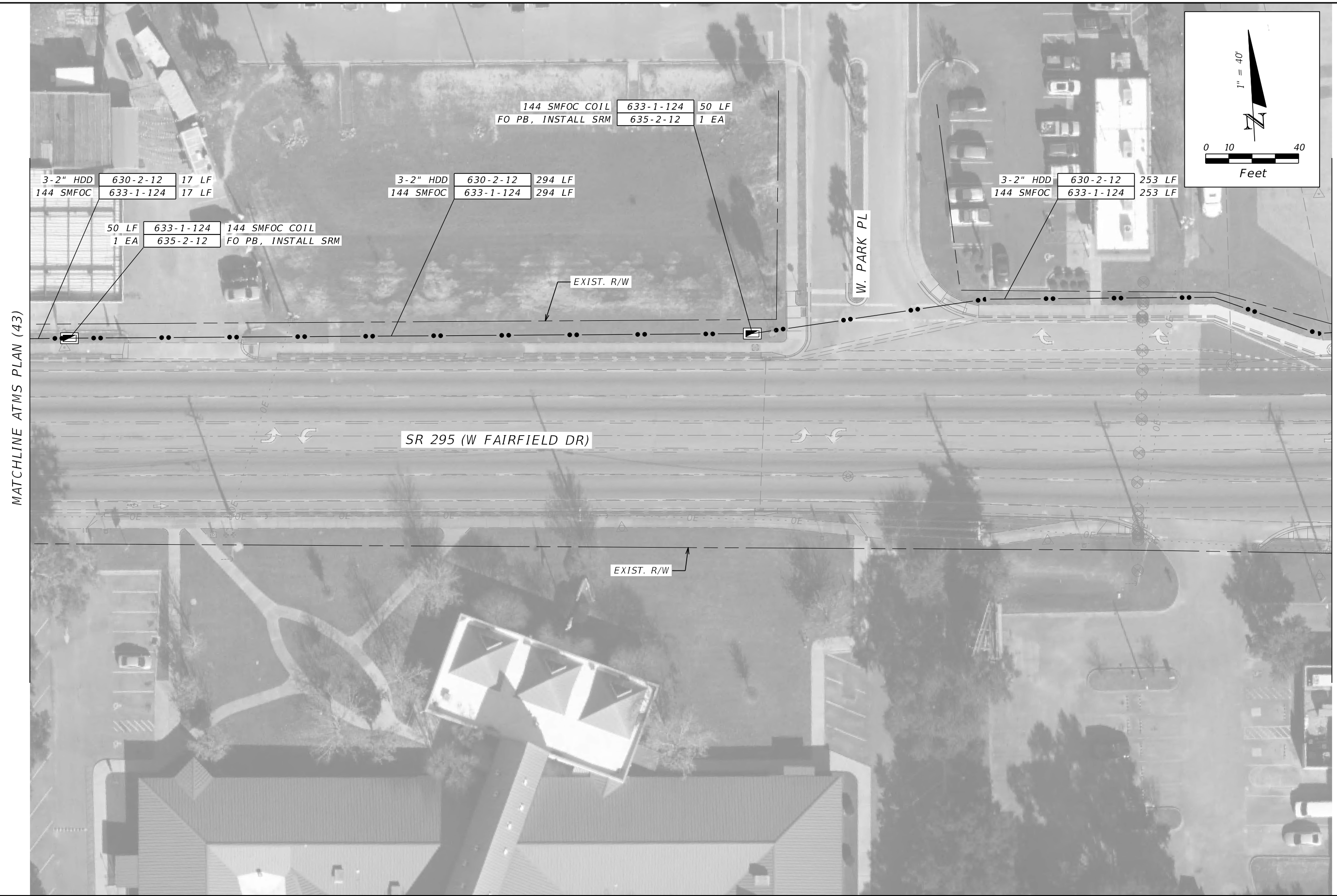
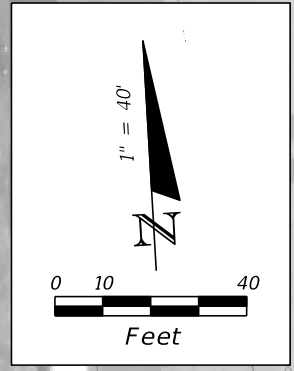


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (43)

SHEET NO.
IT-60

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




MATCHLINE ATMS PLAN (43)

MATCHLINE ATMS PLAN (45)

REVISIONS	
DATE	DESCRIPTION

HDR

GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT

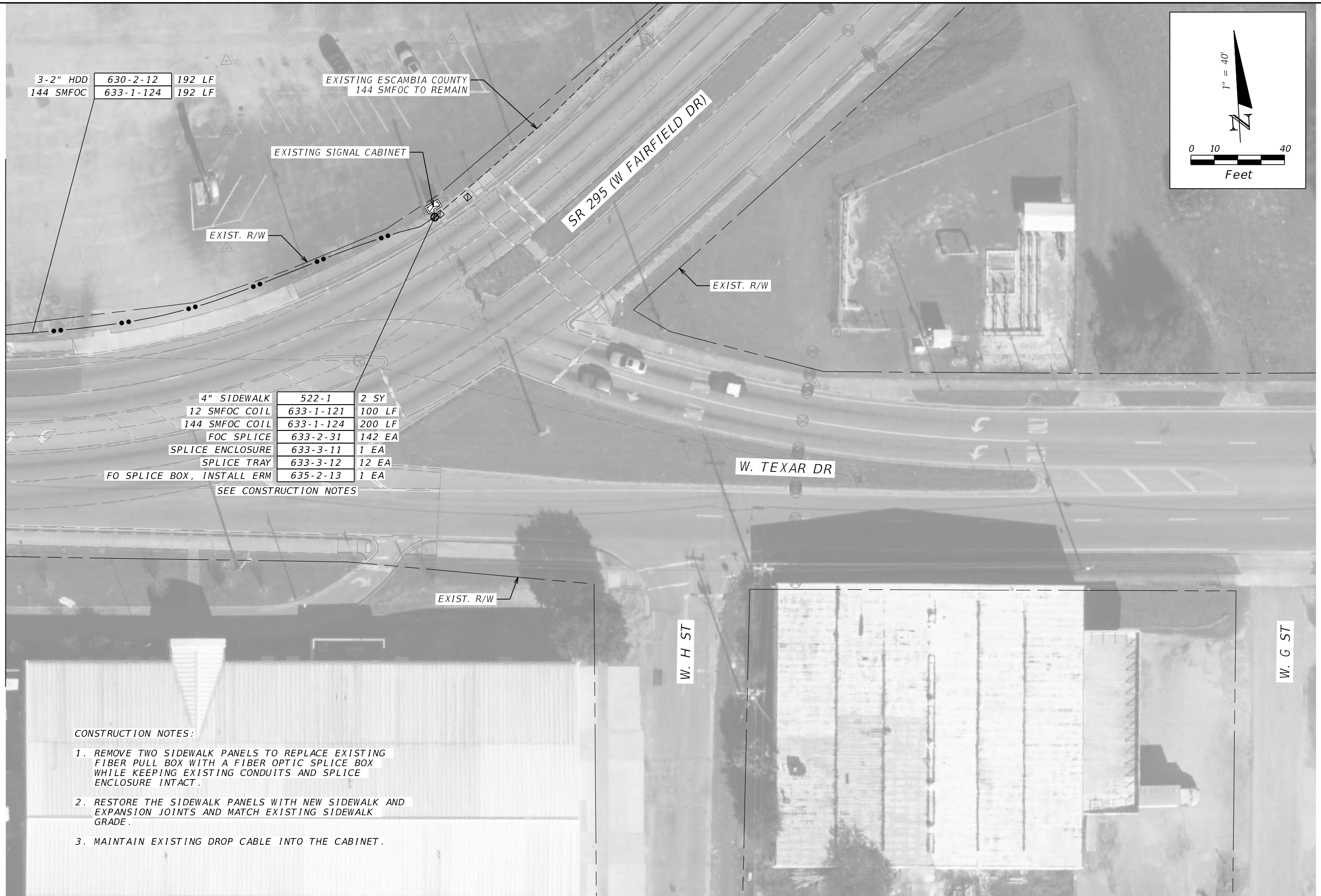
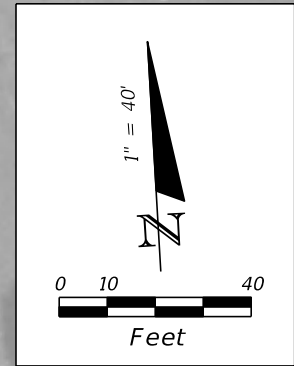
US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

ATMS PLAN (44)

SHEET NO.
IT-61

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCHLINE ATMS PLAN (44)



3-2" HDD	630-2-12	192 LF
144 SMFOC	633-1-124	192 LF

EXISTING ESCAMBIA COUNTY
144 SMFOC TO REMAIN

EXISTING SIGNAL CABINET

EXIST. R/W

EXIST. R/W

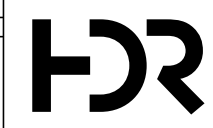
EXIST. R/W

4" SIDEWALK	522-1	2 SY
12 SMFOC COIL	633-1-121	100 LF
144 SMFOC COIL	633-1-124	200 LF
FOC SPLICE	633-2-31	142 EA
SPLICE ENCLOSURE	633-3-11	1 EA
SPLICE TRAY	633-3-12	12 EA
FO SPLICE BOX, INSTALL ERM	635-2-13	1 EA
SEE CONSTRUCTION NOTES		

CONSTRUCTION NOTES:

1. REMOVE TWO SIDEWALK PANELS TO REPLACE EXISTING FIBER PULL BOX WITH A FIBER OPTIC SPLICE BOX WHILE KEEPING EXISTING CONDUITS AND SPLICE ENCLOSURE INTACT.
2. RESTORE THE SIDEWALK PANELS WITH NEW SIDEWALK AND EXPANSION JOINTS AND MATCH EXISTING SIDEWALK GRADE.
3. MAINTAIN EXISTING DROP CABLE INTO THE CABINET.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

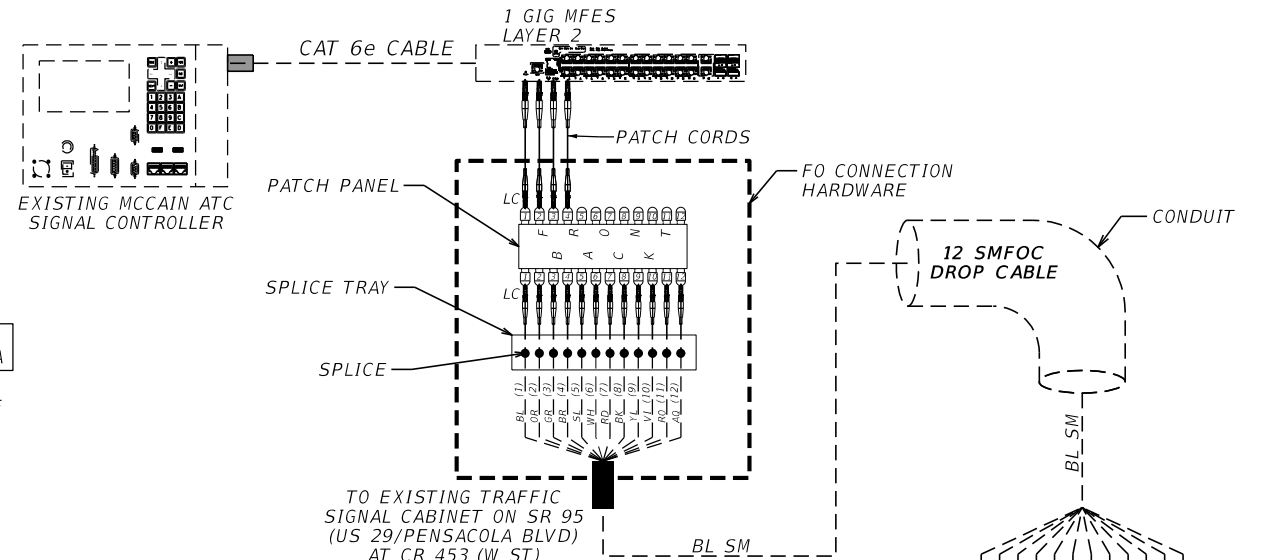


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ATMS PLAN (45)

SHEET NO.
IT-62

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

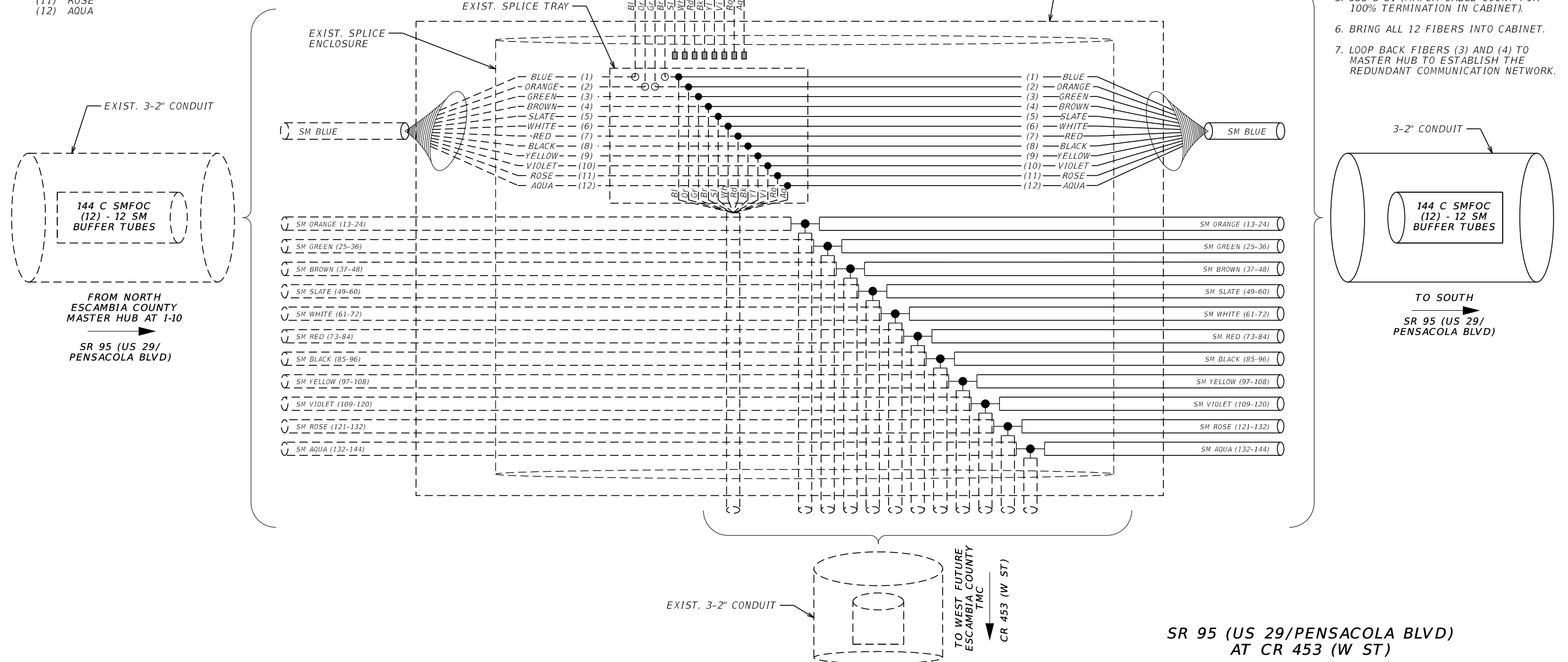


NOTE:
 FDOT DROP CABLE SLACK REQUIREMENTS:
 100 LF INSIDE SPLICE BOX
 20 LF INSIDE CABINET
 TOTAL DROP CABLE LENGTH IS THE DISTANCE BETWEEN SPLICE BOX, PLUS REQUIRED SLACK.

LEGEND	DESCRIPTION
●	FUSION SPLICE
○	EXIST. FUSION SPLICE
—	COIL AND CAP
—	COIL
—	ACTIVE SECTION OF FIBER

COLOR CODE TIA/EIA 598A	
(1)	BLUE
(2)	ORANGE
(3)	GREEN
(4)	BROWN
(5)	SLATE
(6)	WHITE
(7)	RED
(8)	BLACK
(9)	YELLOW
(10)	VIOLET
(11)	ROSE
(12)	AQUA

- NOTES:
- REFER TO THE PLANS FOR DROP CABLE COUNT.
 - 633-3-12 (12 F CAPACITY): 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-13 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - 633-3-17 (12 F CAPACITY): 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-31 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - BRING ALL 12 FIBERS INTO CABINET.
 - LOOP BACK FIBERS (3) AND (4) TO MASTER HUB TO ESTABLISH THE REDUNDANT COMMUNICATION NETWORK.



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SR 95 (US 29/PENSACOLA BLVD)
 AT CR 453 (W ST)

REVISIONS	
DATE	DESCRIPTION



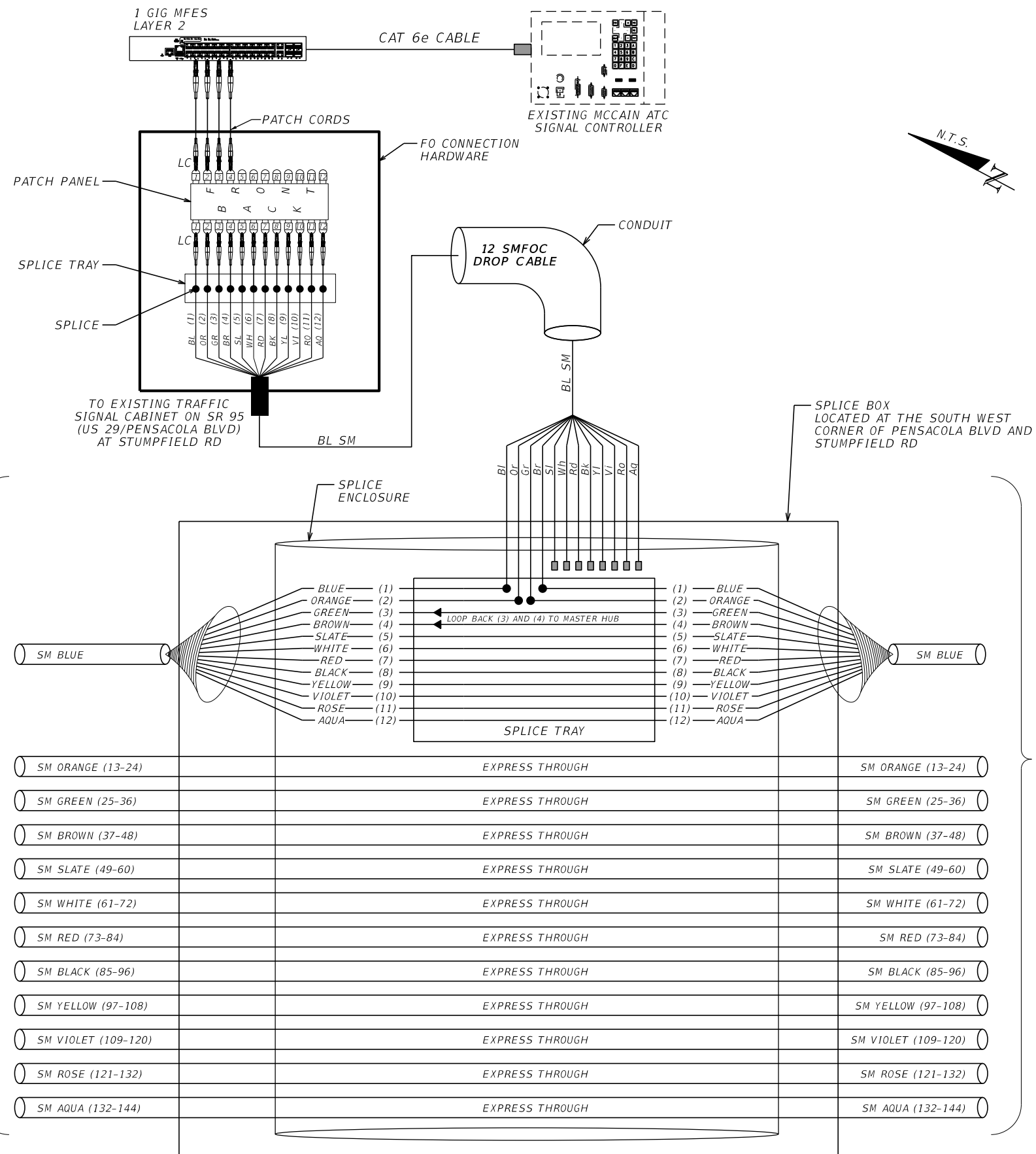
GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

SPLICING DIAGRAM (1)

SHEET NO.
 IT-63



LEGEND	DESCRIPTION
•	FUSION SPLICE
—	COIL AND CAP
—	COIL
—	ACTIVE SECTION OF FIBER

- NOTE:
- FDOT DROP CABLE SLACK REQUIREMENTS:
- 100 LF INSIDE SPLICE BOX
20 LF INSIDE CABINET
- TOTAL DROP CABLE LENGTH IS THE DISTANCE BETWEEN SPLICE BOX, PLUS REQUIRED SLACK.
- NOTES:
- REFER TO THE PLANS FOR DROP CABLE COUNT.
 - 633-3-12 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-13 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - 633-3-17 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-31 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - BRING ALL 12 FIBERS INTO CABINET.
 - LOOP BACK FIBERS (3) AND (4) TO MASTER HUB TO ESTABLISH THE REDUNDANT COMMUNICATION NETWORK.

COLOR CODE TIA/EIA 598A	
(1)	BLUE
(2)	ORANGE
(3)	GREEN
(4)	BROWN
(5)	SLATE
(6)	WHITE
(7)	RED
(8)	BLACK
(9)	YELLOW
(10)	VIOLET
(11)	ROSE
(12)	AQUA

SR 95 (US 29/PENSACOLA BLVD)
AT STUMPFIELD RD

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

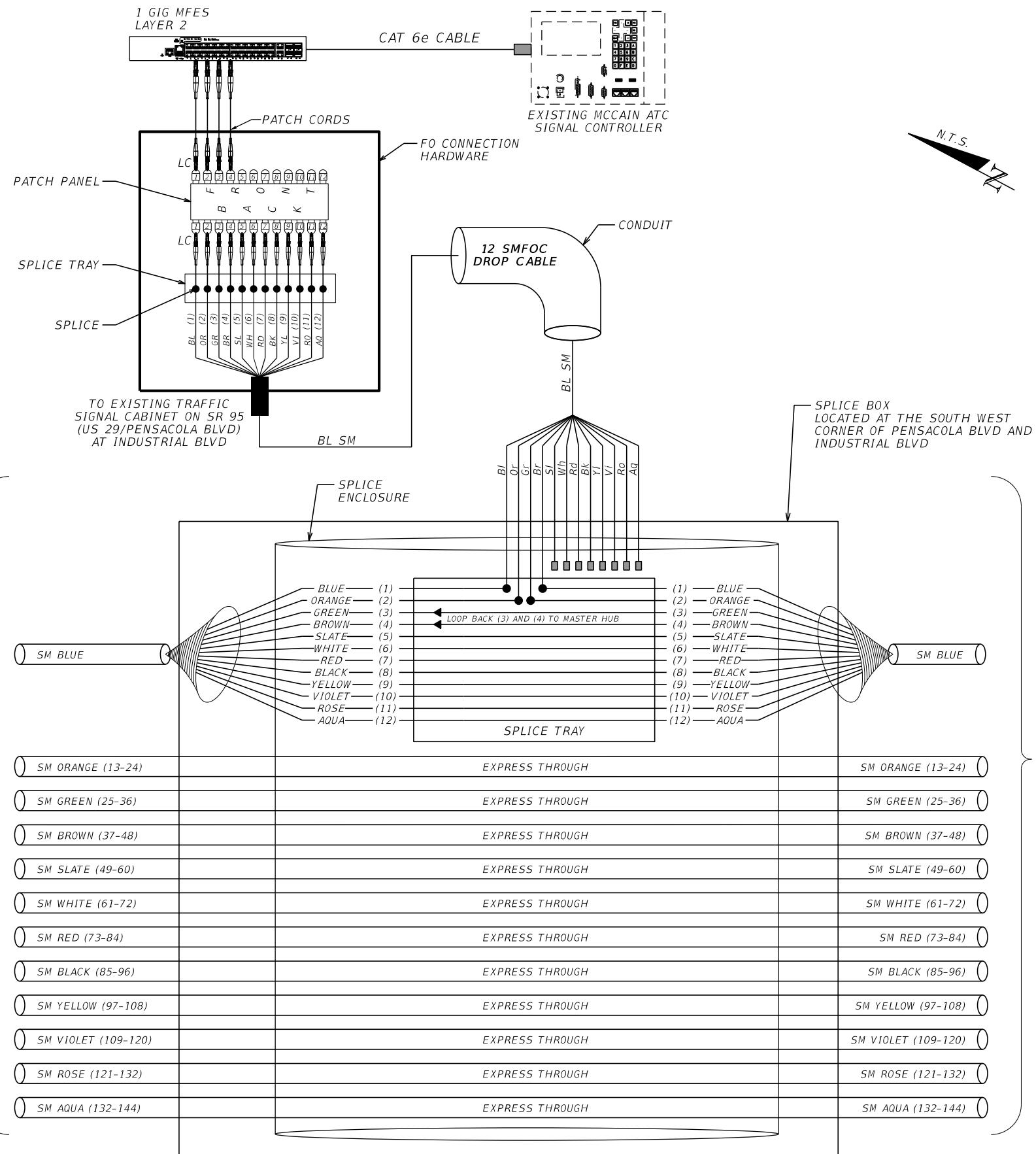


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

SPLICING DIAGRAM (2)

SHEET NO.
IT-64

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND	DESCRIPTION
•	FUSION SPLICE
—	COIL AND CAP
—	COIL
—	ACTIVE SECTION OF FIBER

- NOTE:
- FDOT DROP CABLE SLACK REQUIREMENTS:
- 100 LF INSIDE SPLICE BOX
20 LF INSIDE CABINET
- TOTAL DROP CABLE LENGTH IS THE DISTANCE BETWEEN SPLICE BOX, PLUS REQUIRED SLACK.
- NOTES:
- REFER TO THE PLANS FOR DROP CABLE COUNT.
 - 633-3-12 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-13 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - 633-3-17 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-31 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - BRING ALL 12 FIBERS INTO CABINET.
 - LOOP BACK FIBERS (3) AND (4) TO MASTER HUB TO ESTABLISH THE REDUNDANT COMMUNICATION NETWORK.

COLOR CODE TIA/EIA 598A	
(1)	BLUE
(2)	ORANGE
(3)	GREEN
(4)	BROWN
(5)	SLATE
(6)	WHITE
(7)	RED
(8)	BLACK
(9)	YELLOW
(10)	VIOLET
(11)	ROSE
(12)	AQUA

SR 95 (US 29/PENSACOLA BLVD)
AT INDUSTRIAL BLVD

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

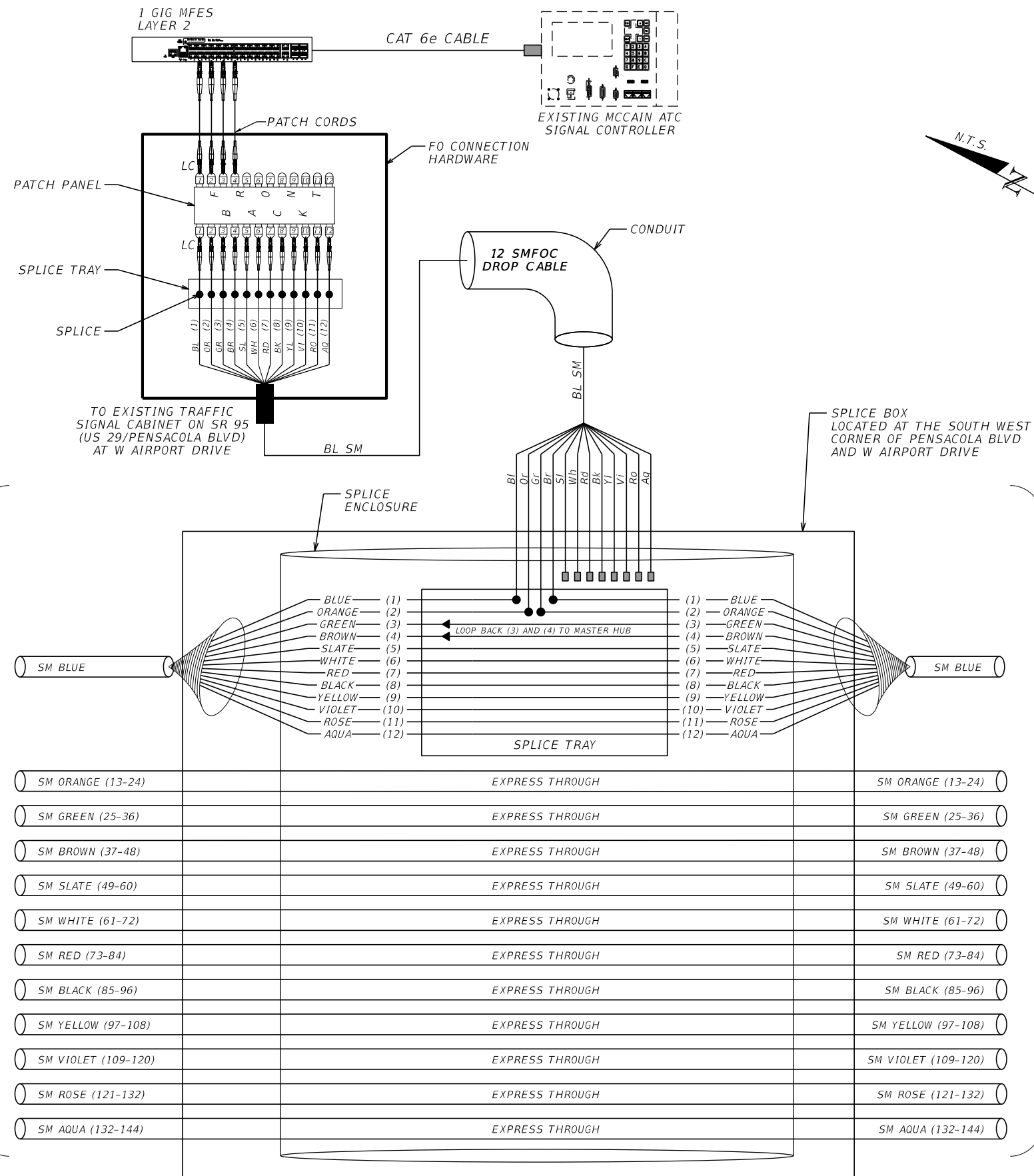


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

SPLICING DIAGRAM (3)

SHEET NO.
IT-65

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND	DESCRIPTION
•	FUSION SPLICE
—	COIL AND CAP
—	COIL
—	ACTIVE SECTION OF FIBER

- NOTE:
- FDOT DROP CABLE SLACK REQUIREMENTS:
- 100 LF INSIDE SPLICE BOX
20 LF INSIDE CABINET
- TOTAL DROP CABLE LENGTH IS THE DISTANCE BETWEEN SPLICE BOX, PLUS REQUIRED SLACK.
- NOTES:
- REFER TO THE PLANS FOR DROP CABLE COUNT.
 - 633-3-12 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-13 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - 633-3-17 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-31 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - BRING ALL 12 FIBERS INTO CABINET.
 - LOOP BACK FIBERS (3) AND (4) TO MASTER HUB TO ESTABLISH THE REDUNDANT COMMUNICATION NETWORK.

COLOR CODE TIA/EIA 598A	
(1)	BLUE
(2)	ORANGE
(3)	GREEN
(4)	BROWN
(5)	SLATE
(6)	WHITE
(7)	RED
(8)	BLACK
(9)	YELLOW
(10)	VIOLET
(11)	ROSE
(12)	AQUA

SR 95 (US 29/PENSACOLA BLVD)
AT W AIRPORT DRIVE

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

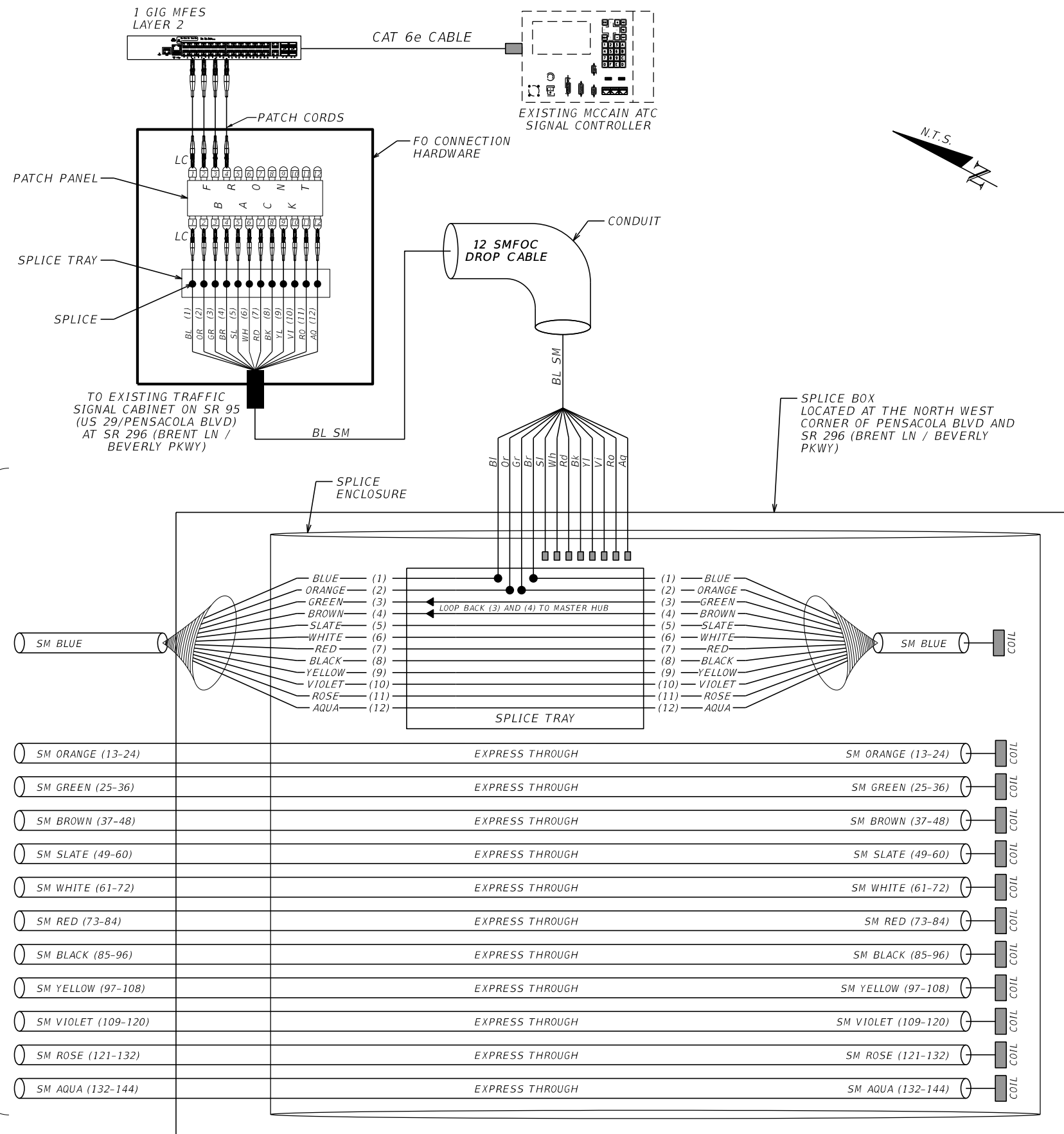


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

SPLICING DIAGRAM (4)

SHEET NO.
IT-66

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND	DESCRIPTION
•	FUSION SPLICE
—○—	COIL AND CAP
—○	COIL
—	ACTIVE SECTION OF FIBER

- NOTE:
- FDOT DROP CABLE SLACK REQUIREMENTS:
- 100 LF INSIDE SPLICE BOX
 - 20 LF INSIDE CABINET
- TOTAL DROP CABLE LENGTH IS THE DISTANCE BETWEEN SPLICE BOX, PLUS REQUIRED SLACK.
- NOTES:
- REFER TO THE PLANS FOR DROP CABLE COUNT.
 - 633-3-12 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-13 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - 633-3-17 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-31 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - BRING ALL 12 FIBERS INTO CABINET.
 - LOOP BACK FIBERS (3) AND (4) TO MASTER HUB TO ESTABLISH THE REDUNDANT COMMUNICATION NETWORK.

COLOR CODE TIA/EIA 598A	
(1)	BLUE
(2)	ORANGE
(3)	GREEN
(4)	BROWN
(5)	SLATE
(6)	WHITE
(7)	RED
(8)	BLACK
(9)	YELLOW
(10)	VIOLET
(11)	ROSE
(12)	AQUA

**SR 95 (US 29/PENSACOLA BLVD)
AT SR 296 (BRENT LN / BEVERLY PKWY)**

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

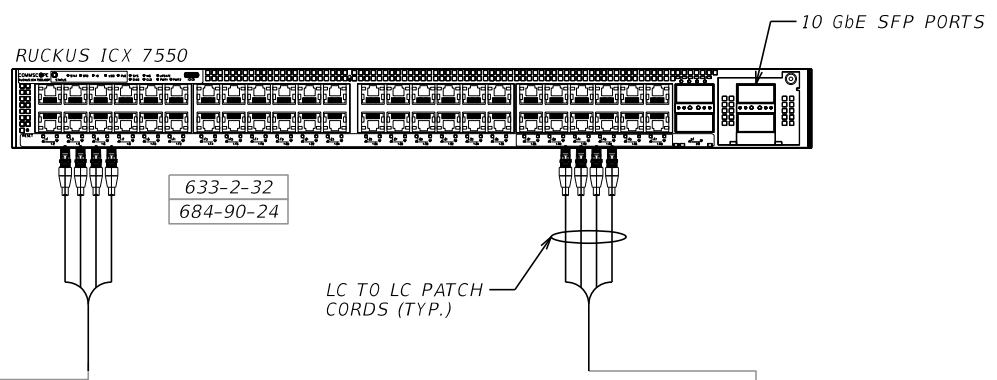
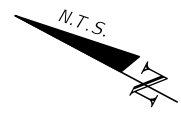
SPLICING DIAGRAM (5)

SHEET NO.
IT-67

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

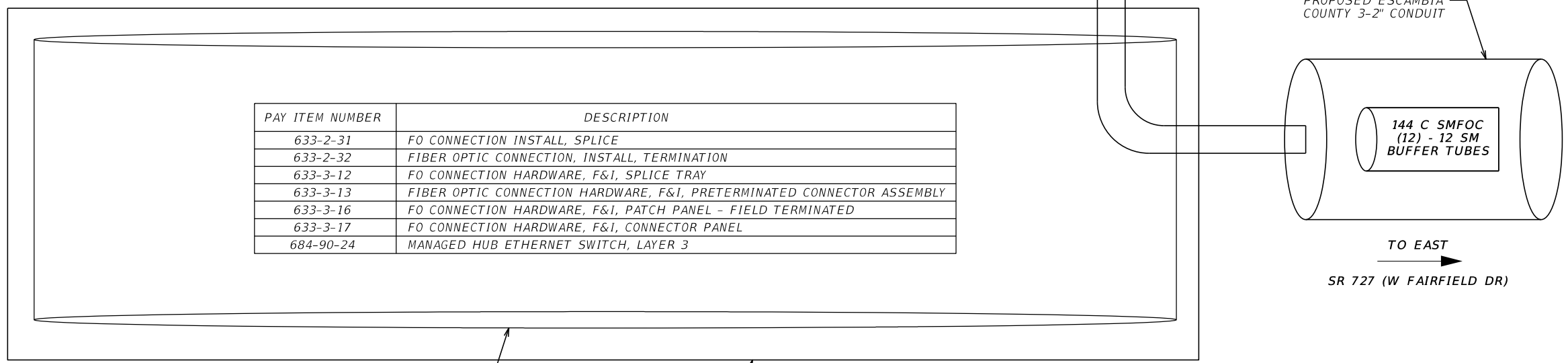
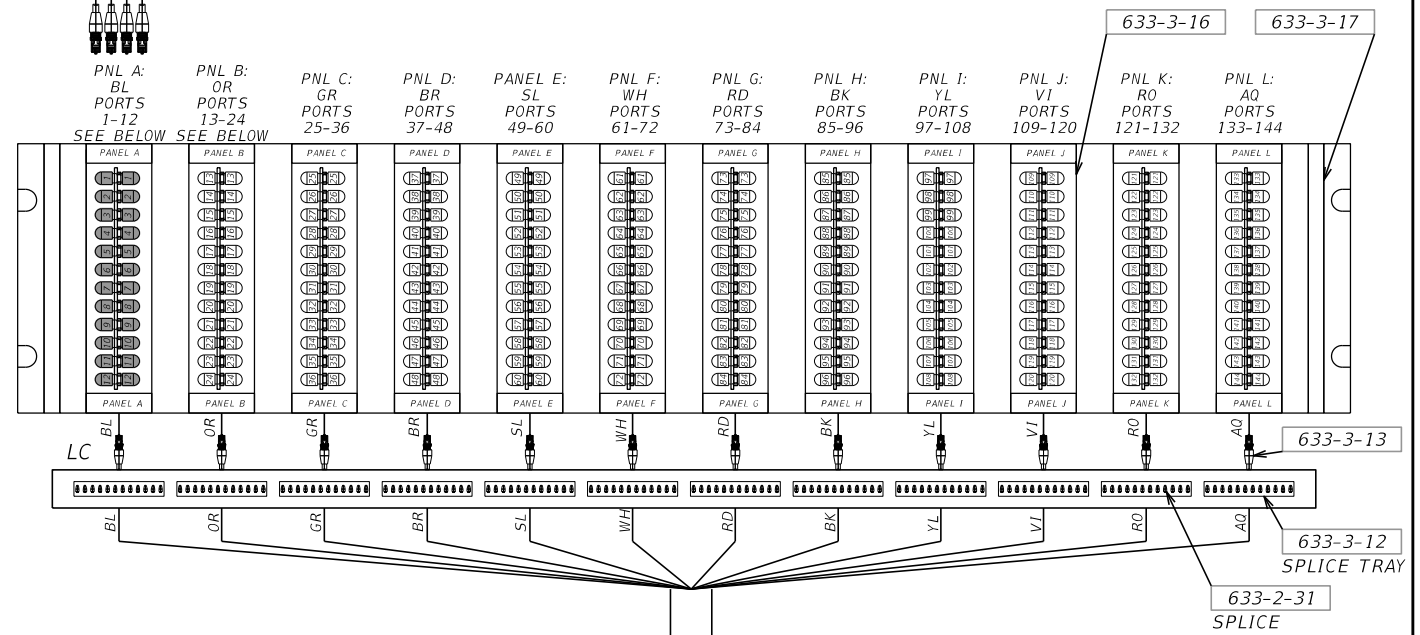
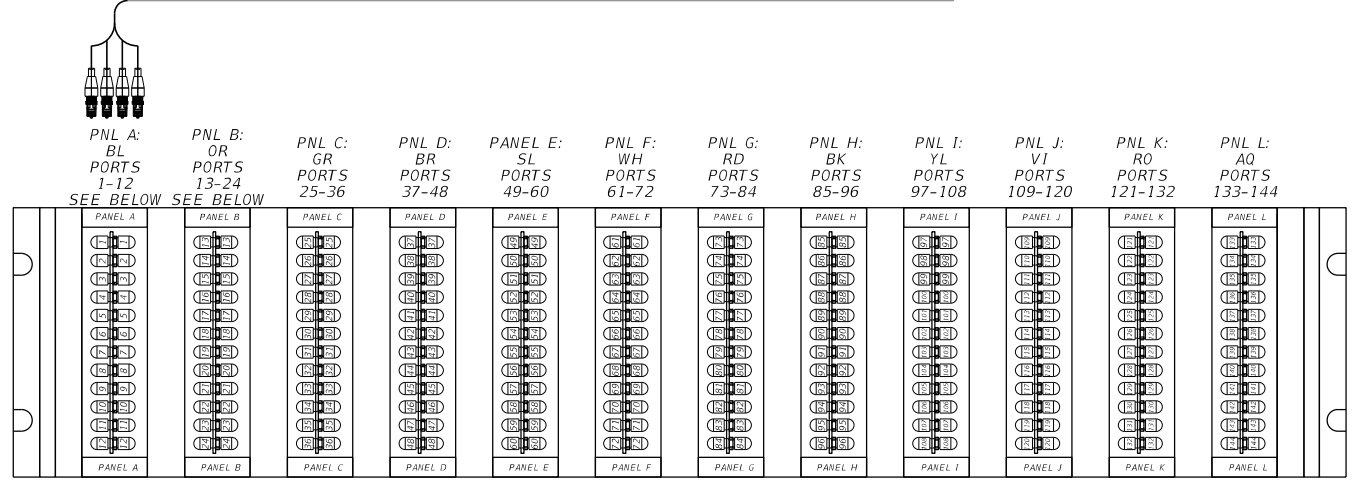
LEGEND	DESCRIPTION
●	FUSION SPLICE
—	COIL AND CAP
—	COIL
—	ACTIVE SECTION OF FIBER

NOTE:
 FDOT DROP CABLE SLACK REQUIREMENTS:
 100 LF INSIDE SPLICE BOX
 20 LF INSIDE CABINET
 TOTAL DROP CABLE LENGTH IS THE DISTANCE
 BETWEEN SPLICE BOX, PLUS REQUIRED SLACK.



- NOTES:
- FURNISH, INSTALL AND CONFIGURE NEW ICX-7550 X 48F RUCKUS ETHERNET ROUTER.
 - FURNISH AND INSTALL FOUR 144 COUNT CAPACITY CORNING CONNECTOR HARDWARE.
 - FURNISH AND INSTALL 12 PRE-TERMINATED CONNECTOR PANELS (PATCH PANELS) AT THE CONNECTOR HARDWARE.
 - SEE IT-9 FOR SYSTEMS INTEGRATION REQUIREMENTS.
 - PORT ASSIGNMENTS AND IP ADDRESSING TO BE PROVIDED BY THE COUNTY.

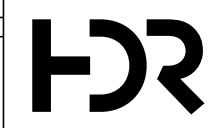
COLOR CODE TIA/EIA 598A	
(1)	BLUE
(2)	ORANGE
(3)	GREEN
(4)	BROWN
(5)	SLATE
(6)	WHITE
(7)	RED
(8)	BLACK
(9)	YELLOW
(10)	VIOLET
(11)	ROSE
(12)	AQUA



PAY ITEM NUMBER	DESCRIPTION
633-2-31	FO CONNECTION INSTALL, SPLICE
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION
633-3-12	FO CONNECTION HARDWARE, F&I, SPLICE TRAY
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY
633-3-16	FO CONNECTION HARDWARE, F&I, PATCH PANEL - FIELD TERMINATED
633-3-17	FO CONNECTION HARDWARE, F&I, CONNECTOR PANEL
684-90-24	MANAGED HUB ETHERNET SWITCH, LAYER 3

SR 727 (W FAIRFIELD DR)
 AT US 90 (MOBILE HWY)
 MASTER COMMUNICATION HUB

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

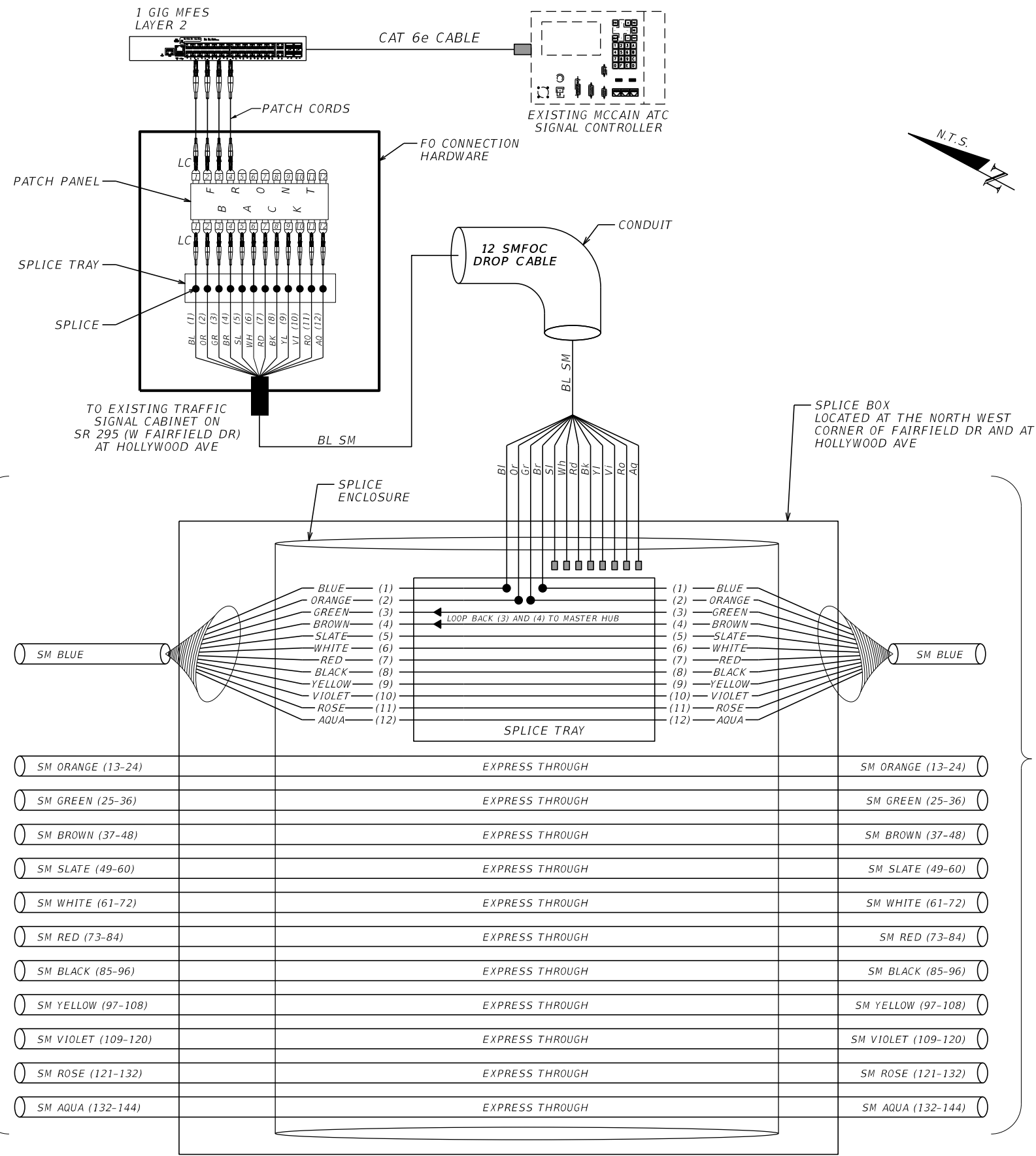


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

SPLICING DIAGRAM (6)

SHEET NO.
 IT-68

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND	DESCRIPTION
•	FUSION SPLICE
—	COIL AND CAP
—	COIL
—	ACTIVE SECTION OF FIBER

- NOTE:
- FDOT DROP CABLE SLACK REQUIREMENTS:
- 100 LF INSIDE SPLICE BOX
 - 20 LF INSIDE CABINET
- TOTAL DROP CABLE LENGTH IS THE DISTANCE BETWEEN SPLICE BOX, PLUS REQUIRED SLACK.
- NOTES:
- REFER TO THE PLANS FOR DROP CABLE COUNT.
 - 633-3-12 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-13 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - 633-3-17 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-31 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - BRING ALL 12 FIBERS INTO CABINET.
 - LOOP BACK FIBERS (3) AND (4) TO MASTER HUB TO ESTABLISH THE REDUNDANT COMMUNICATION NETWORK.

3-2" CONDUIT

144 C SMFOC (12) - 12 SM BUFFER TUBES

FROM WEST
SR 295 (W FAIRFIELD DR)

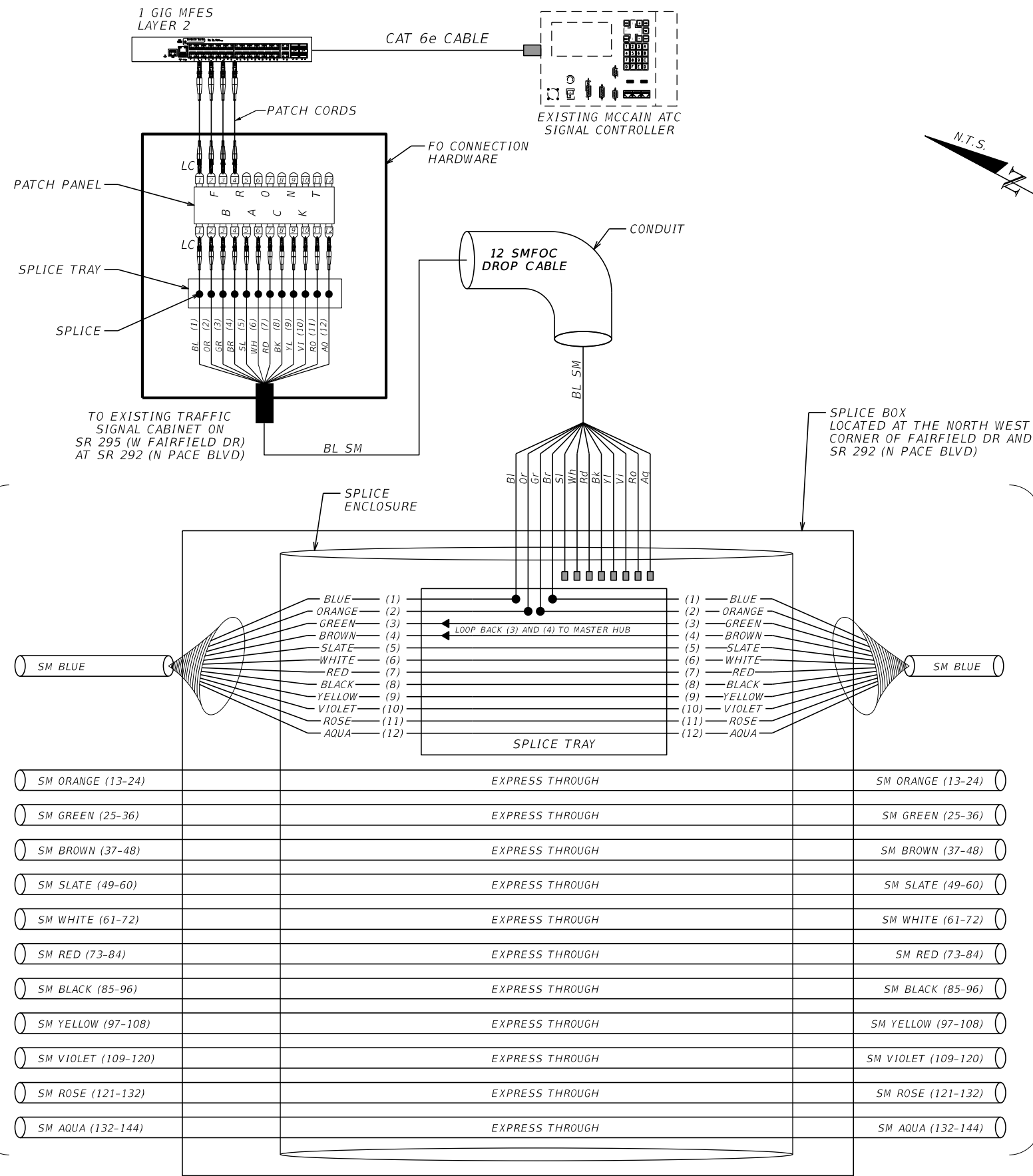
TO EAST
SR 295 (W FAIRFIELD DR)

COLOR CODE TIA/EIA 598A	
(1)	BLUE
(2)	ORANGE
(3)	GREEN
(4)	BROWN
(5)	SLATE
(6)	WHITE
(7)	RED
(8)	BLACK
(9)	YELLOW
(10)	VIOLET
(11)	ROSE
(12)	AQUA

SR 295 (W FAIRFIELD DR) AT HOLLYWOOD AVE

REVISIONS DATE DESCRIPTION			GREGORY A. STEVANUS JR. P.E. LICENSE NUMBER 96562 HDR ENGINEERING, INC. 25 WEST CEDAR STREET, SUITE 200 PENSACOLA, FL 32502-5945	ESCAMBIA COUNTY ENGINEERING DEPARTMENT US 29 / PENSACOLA BLVD AND SR 727/295 FAIRFIELD DR FIBER OPTIC IMPROVEMENTS	SHEET NO. IT-72
10/27/2025 1:08:24 AM PW:\					

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND	DESCRIPTION
•	FUSION SPLICE
—	COIL AND CAP
—	COIL
—	ACTIVE SECTION OF FIBER

- NOTE:
- FDOT DROP CABLE SLACK REQUIREMENTS:
- 100 LF INSIDE SPLICE BOX
 - 20 LF INSIDE CABINET
- TOTAL DROP CABLE LENGTH IS THE DISTANCE BETWEEN SPLICE BOX, PLUS REQUIRED SLACK.
- NOTES:
- REFER TO THE PLANS FOR DROP CABLE COUNT.
 - 633-3-12 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-13 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - 633-3-17 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-31 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - BRING ALL 12 FIBERS INTO CABINET.
 - LOOP BACK FIBERS (3) AND (4) TO MASTER HUB TO ESTABLISH THE REDUNDANT COMMUNICATION NETWORK.

SM BLUE	EXPRESS THROUGH	SM BLUE
SM ORANGE (13-24)	EXPRESS THROUGH	SM ORANGE (13-24)
SM GREEN (25-36)	EXPRESS THROUGH	SM GREEN (25-36)
SM BROWN (37-48)	EXPRESS THROUGH	SM BROWN (37-48)
SM SLATE (49-60)	EXPRESS THROUGH	SM SLATE (49-60)
SM WHITE (61-72)	EXPRESS THROUGH	SM WHITE (61-72)
SM RED (73-84)	EXPRESS THROUGH	SM RED (73-84)
SM BLACK (85-96)	EXPRESS THROUGH	SM BLACK (85-96)
SM YELLOW (97-108)	EXPRESS THROUGH	SM YELLOW (97-108)
SM VIOLET (109-120)	EXPRESS THROUGH	SM VIOLET (109-120)
SM ROSE (121-132)	EXPRESS THROUGH	SM ROSE (121-132)
SM AQUA (132-144)	EXPRESS THROUGH	SM AQUA (132-144)

COLOR CODE TIA/EIA 598A	
(1)	BLUE
(2)	ORANGE
(3)	GREEN
(4)	BROWN
(5)	SLATE
(6)	WHITE
(7)	RED
(8)	BLACK
(9)	YELLOW
(10)	VIOLET
(11)	ROSE
(12)	AQUA

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

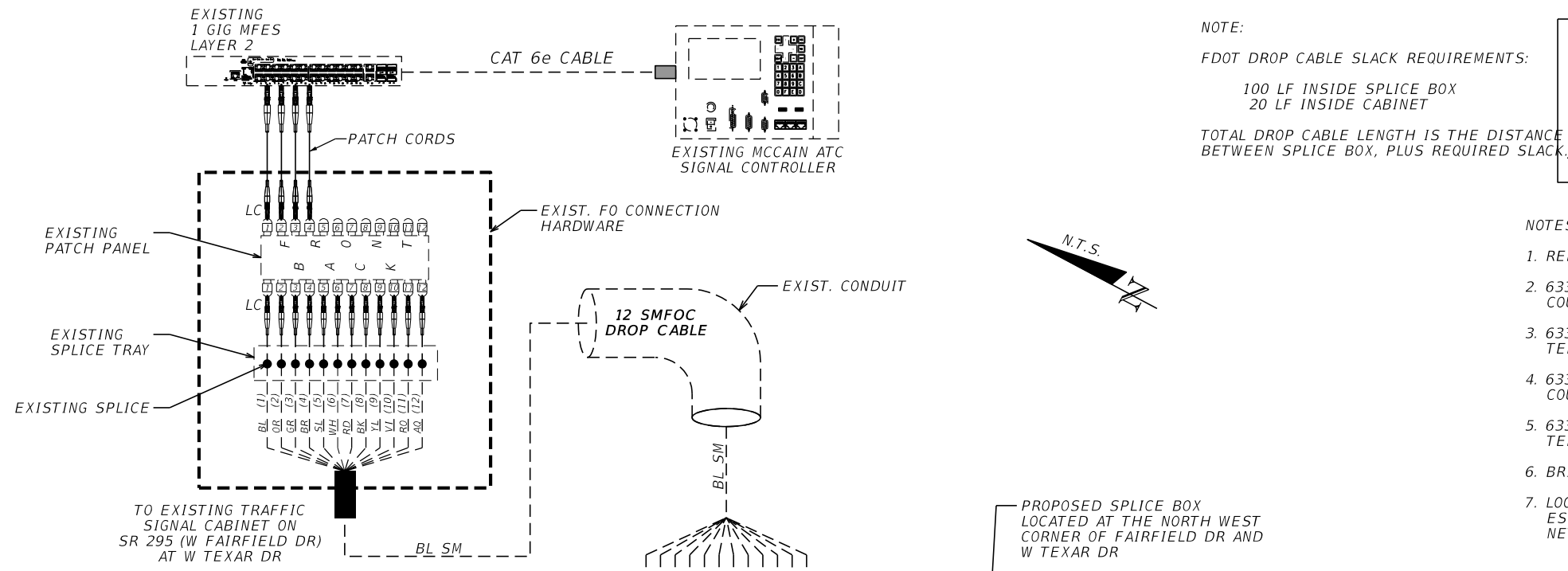


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

SPLICING DIAGRAM (12)

SHEET NO.
 IT-74

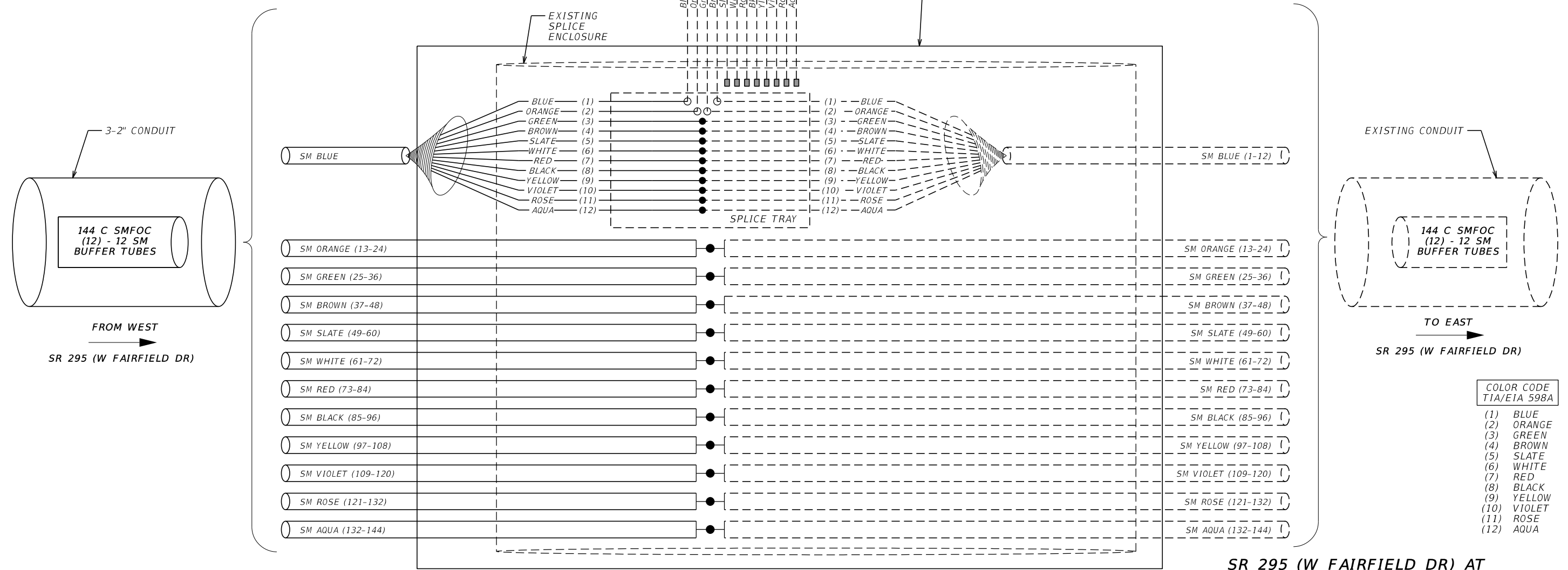
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:
 FDOT DROP CABLE SLACK REQUIREMENTS:
 100 LF INSIDE SPLICE BOX
 20 LF INSIDE CABINET
 TOTAL DROP CABLE LENGTH IS THE DISTANCE BETWEEN SPLICE BOX, PLUS REQUIRED SLACK.

LEGEND	DESCRIPTION
●	FUSION SPLICE
—	COIL AND CAP
—	COIL
—	ACTIVE SECTION OF FIBER

- NOTES:
- REFER TO THE PLANS FOR DROP CABLE COUNT.
 - 633-3-12 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-13 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - 633-3-17 (12 F CAPACITY); 1 OR 2 GIVEN THE CABLE COUNT.
 - 633-3-31 (MATCH CABLE COUNT FOR 100% TERMINATION IN CABINET).
 - BRING ALL 12 FIBERS INTO CABINET.
 - LOOP BACK FIBERS (3) AND (4) TO MASTER HUB TO ESTABLISH THE REDUNDANT COMMUNICATION NETWORK.



SR 295 (W FAIRFIELD DR) AT W TEXAR DR

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

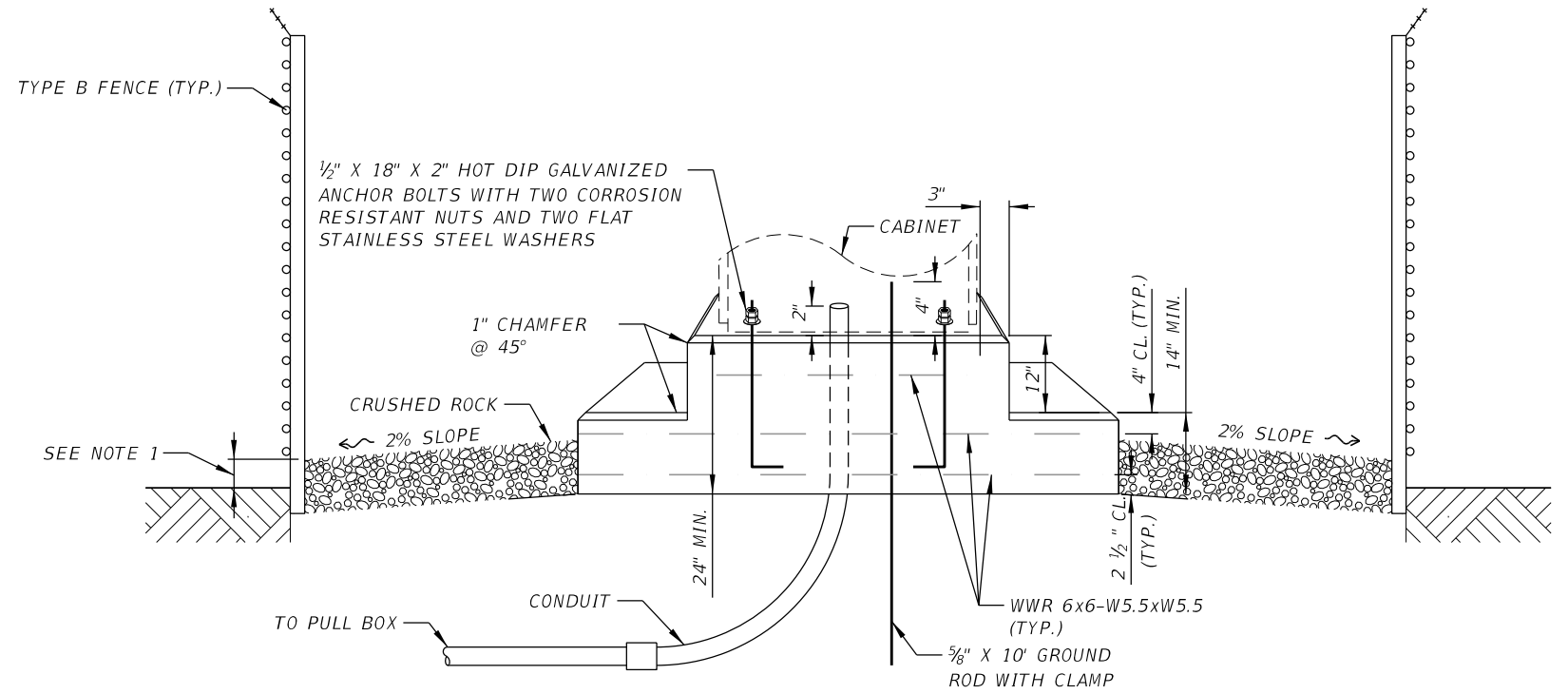
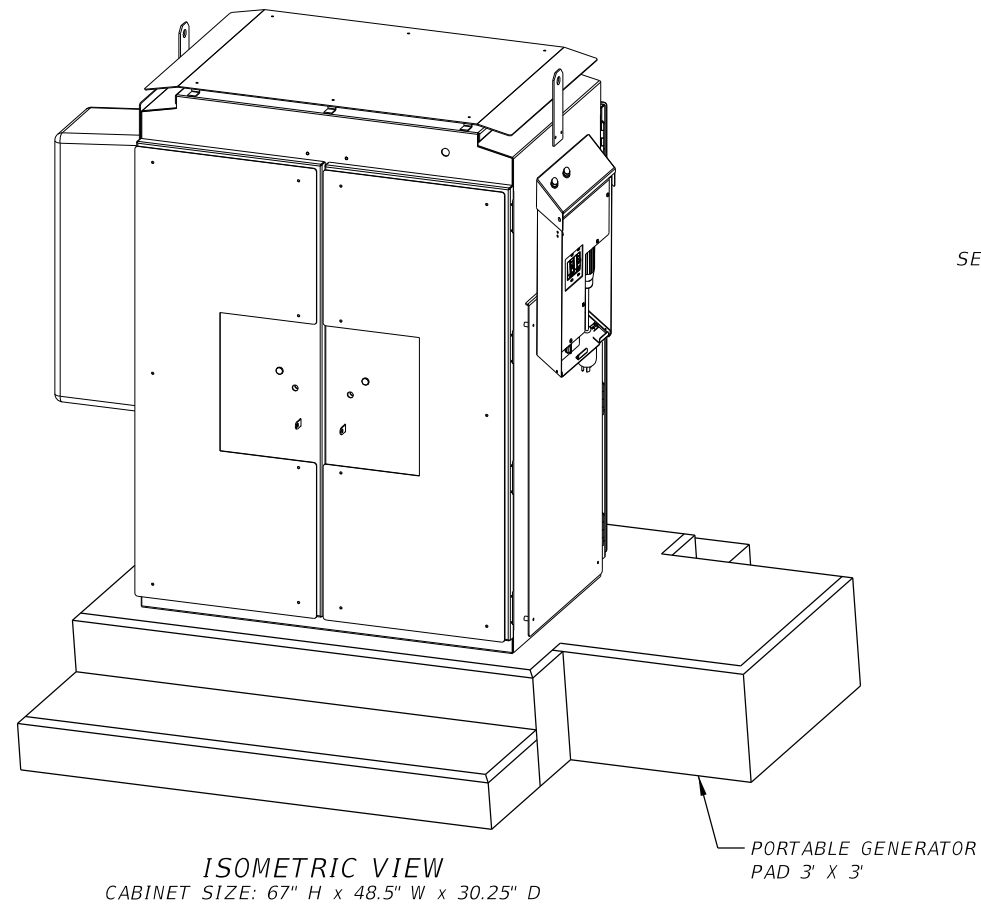


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

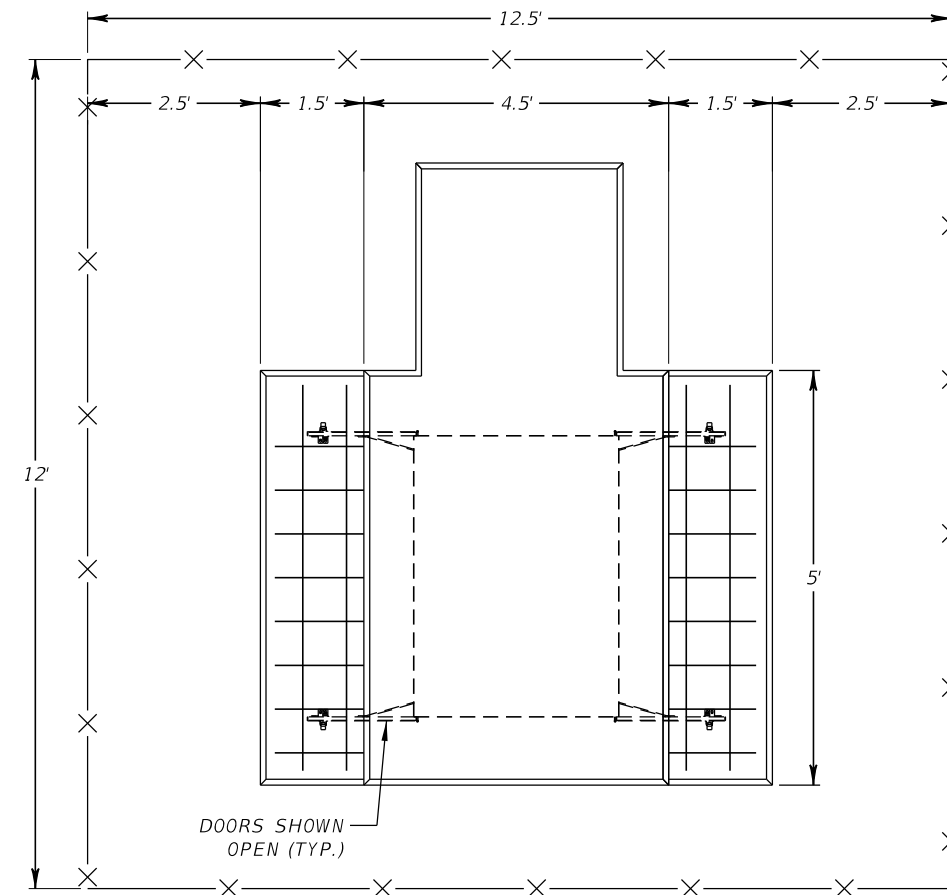
SPLICING DIAGRAM (14)

SHEET NO.
 IT-76

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SIDE VIEW



TOP VIEW

MATERIAL SPECIFICATIONS

- A. THE COST OF THE CONCRETE PAD AND STEPS ARE INCLUDED IN THE MASTER HUB CABINET ASSEMBLY.
- B. A MINIMUM OF 4 EXPANSION BOLTS ARE REQUIRED. STAINLESS STEEL KWIK BOLT WITH A MIN. EMBEDMENT OF 18", SHALL BE USED TO MOUNT THE CABINET TO THE CONCRETE PAD.

NOTE:

- 1. PLACE CRUSHED ROCKS AT DEPTH OF 4" ALL AROUND THE HUB CABINET FULLY COVERED INCLUDING THE INSIDE PERIMETER OF THE FENCE SLOPED AT 2% AWAY FROM THE CONCRETE PAD. THE COST IS INCLUDED IN THE UNIT PRICE OF THE TYPE B FENCE.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

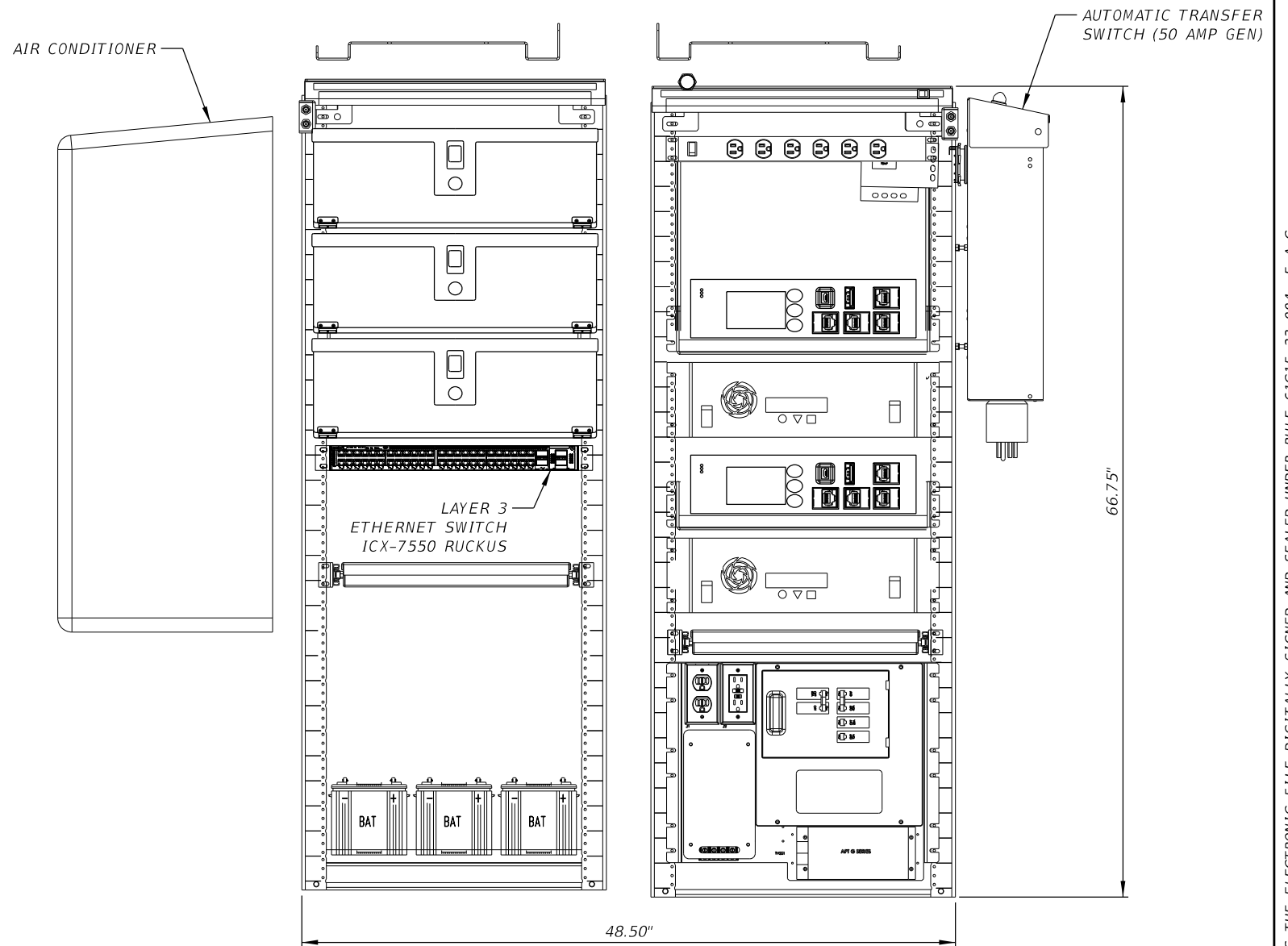
**MASTER COMMUNICATION
 HUB CABINET DETAIL (1)**

SHEET NO.
 IT-77

AIR CONDITIONER PERFORMANCE SPECIFICATIONS:

1. HAVE ACTIVE CONDENSATE EVAPORATION SYSTEM WITH CONSTANT ELIMINATION OF CONDENSATE AND INCREASED UNIT EFFICIENCY BY PRE-COOLING REFRIGERANT.
2. THE DIGITAL TEMPERATURE CONTROLLER SHALL HAVE PROGRAMMABLE SET POINT AND TEMPERATURE CONTROLS WITH VISIBLE ERROR AND/OR ALARM MESSAGING SYSTEM STATUS INDICATION & KEYPAD LOCKOUT FUNCTION.
3. UNIT EFFICIENCY: COMES WITH TEMPERATURE OPERATED BLOWER CONTROL THAT REDUCES POWER IN-RUSH AND SAVES ENERGY WITH HIGHLY EFFICIENT ROTARY COMPRESSOR FULLY INSULATED & SEALED CABINET. IT SHALL INCLUDE THERMAL EXPANSION VALVE TO MAINTAIN COOLING CAPACITY OVER A BROAD AMBIENT TEMPERATURE RANGE.
4. THE CLOSED LOOP AIR CONDITIONING UNIT BE SIDE MOUNTED TO THE SIDE OF THE CABINET, WITH HEAT LOAD OF THE EQUIPMENT USED INSIDE THE CABINET.
5. MEET THE INTERNAL EQUIPMENT COOLING REQUIREMENT PLUS THE HEAT LOAD GENERATED BY THE CABINET WALLS AND TOP DURING A 120°F DAY, AND SIZED TO KEEP THE INTERNAL TEMPERATURE AT OR BELOW 80°F.
6. THE POWER REQUIREMENTS OF THE AIR CONDITIONER TO CONFORM WITH THE INTERNAL CABINET POWER PANEL AS WELL AS THE EXTERNAL POWER SERVICE AND DEVICES AS SHOWN IN THIS PLAN SHEET, AND BE EQUIPPED WITH HEAD PRESSURE CONTROL FOR LOW AMBIENT OPERATION, COMPRESSOR HEATER, COATED CONDENSER COIL AND THERMOSTAT.

MATERIAL	BTU/HR	VOLTAGE/PHASE/HZ	RUNNING AMPS	MAX. AMBIENT TEMPERATURE	U.L.	H x W x D	NUMBER OF UPS
STAINLESS STEEL	5000	240/1/60	4.0	125° F	4 X	36" x 12" x 15"	2



FRONT VIEW
 67" H x 48.5" W x 30.25" D
 FOUR-DOOR TYPE 340 ENCLOSURE WITH TWO 19" WIDE EIA RACK ASSEMBLIES AND 34 RU RACK FRAME FOR THE MASTER COMMUNICATION HUB

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

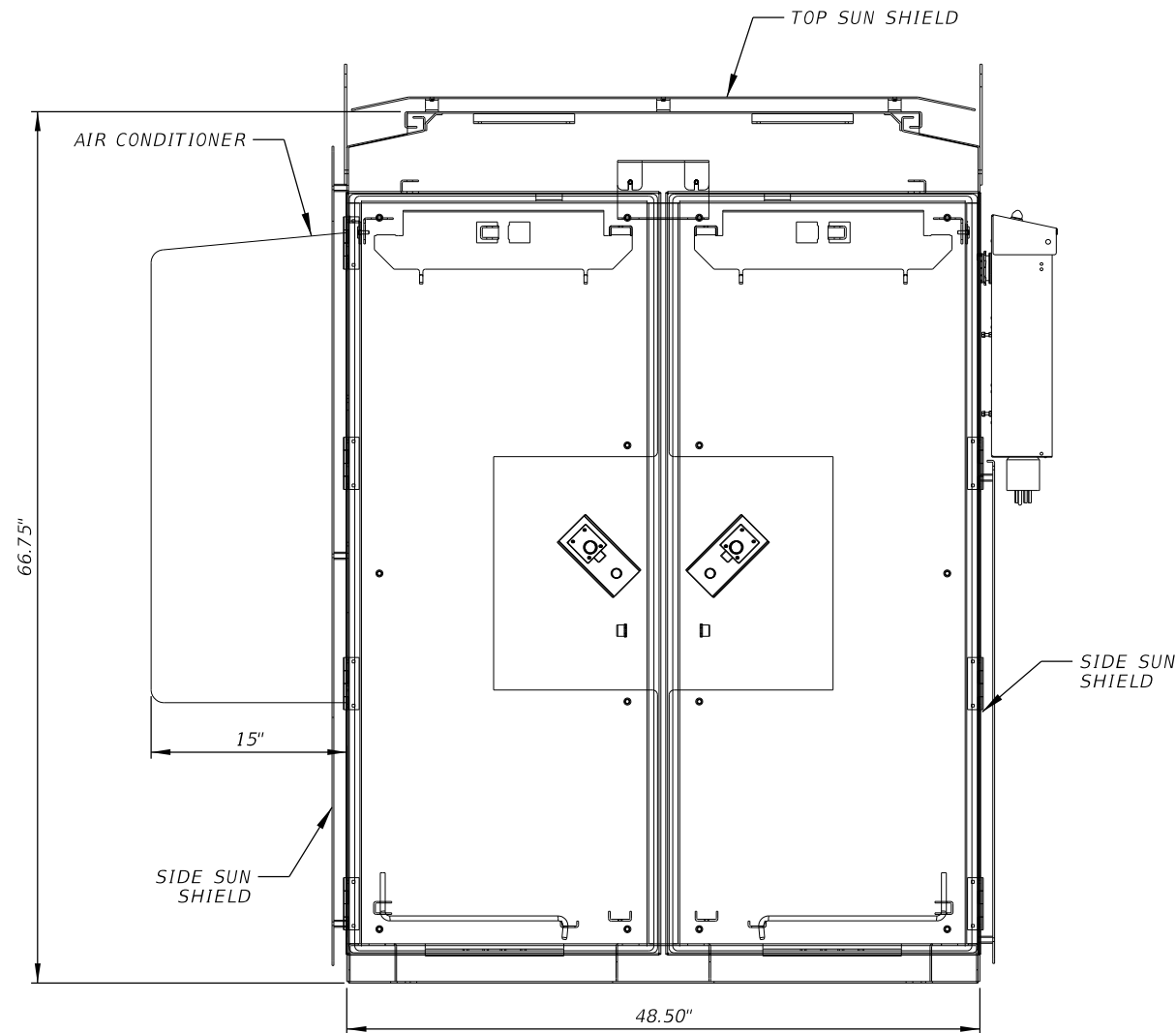


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

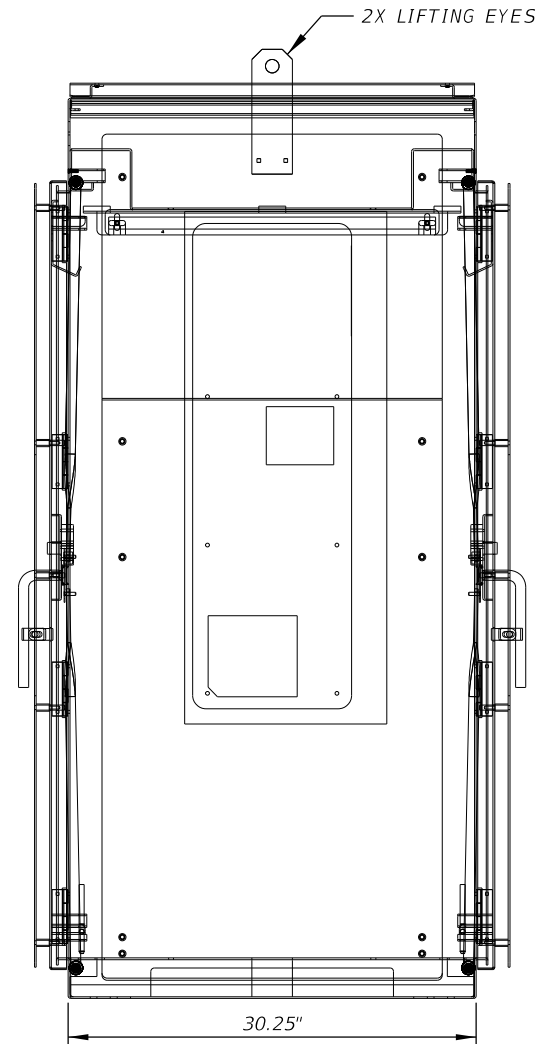
**MASTER COMMUNICATION
 HUB CABINET DETAIL (2)**

SHEET NO.

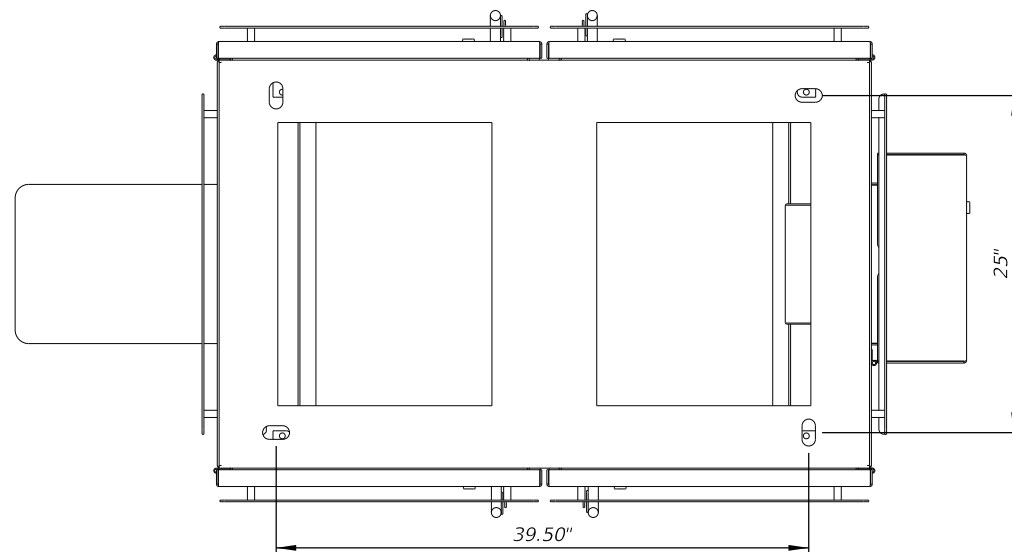
IT-78



FRONT VIEW



SIDE VIEW



BOTTOM VIEW

PROVIDE THE MASTER COMMUNICATION HUB CABINET CONFORMING WITH THE FOLLOWING SPECIFICATIONS:

1. NEMA 3R RATED, BASE MOUNTED WITH AN OPEN BOTTOM, AND CONSTRUCTED FROM .125" 5052-H32 ALUMINUM WITH MILL FINISH.
2. INSULATED WITH TWO LAYERS OF 5/16" FOIL FACED R-4 POLYETHYLENE, TOTAL VALUE R-8.
3. DOUBLE FRONT AND REAR DOORS.
4. DOORS HAVE DOCUMENT POUCH HOOKS / GASKET RETAINER AND DOCUMENT POUCH.
5. EACH DOOR HAS 3/4" DIA. PAD LOCKABLE STAINLESS STEEL HANDLES WITH THREE POINT LATCHING, TWO POSITION DOOR STOPS, CORBIN STYLE #2 LOCK, AND (4) CONCEALED STAINLESS STEEL HINGES PER DOOR.
6. COMPATIBLE WITH TWO EIA 19" STANDARD RACKS, 61.5"H X 21.25"W X 21.5"D WITH 34 RACK UNITS EACH TAPPED TO #10-32.
7. STAINLESS STEEL FOR ALL HARDWARE.
8. INCLUDE AIR CONDITIONER, SUNSHIELDS, AND GENERATOR COMPARTMENT.
9. BE COMPATIBLE WITH A SINGLE OR DUAL REMOVABLE FAN PLATE FOR 4" FAN(S).
10. BE INSULATED WITH TWO LAYERS OF 5/16" FOIL FACED R-4 POLYETHYLENE, TOTAL VALUE R-8 WITH DOUBLE FRONT AND REAR DOORS.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

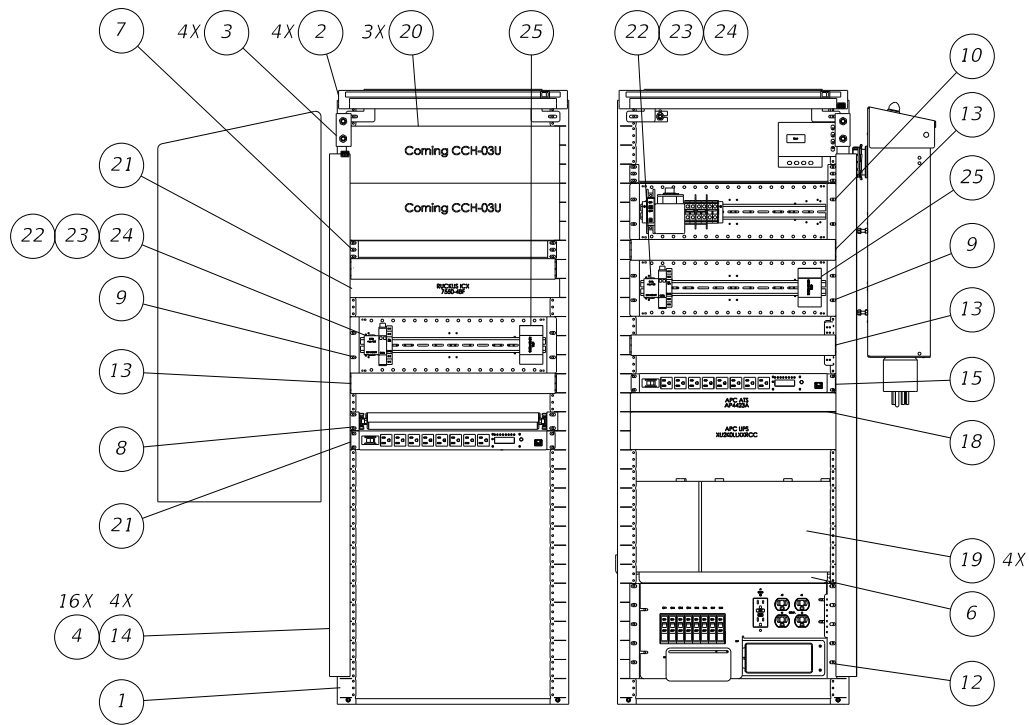


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

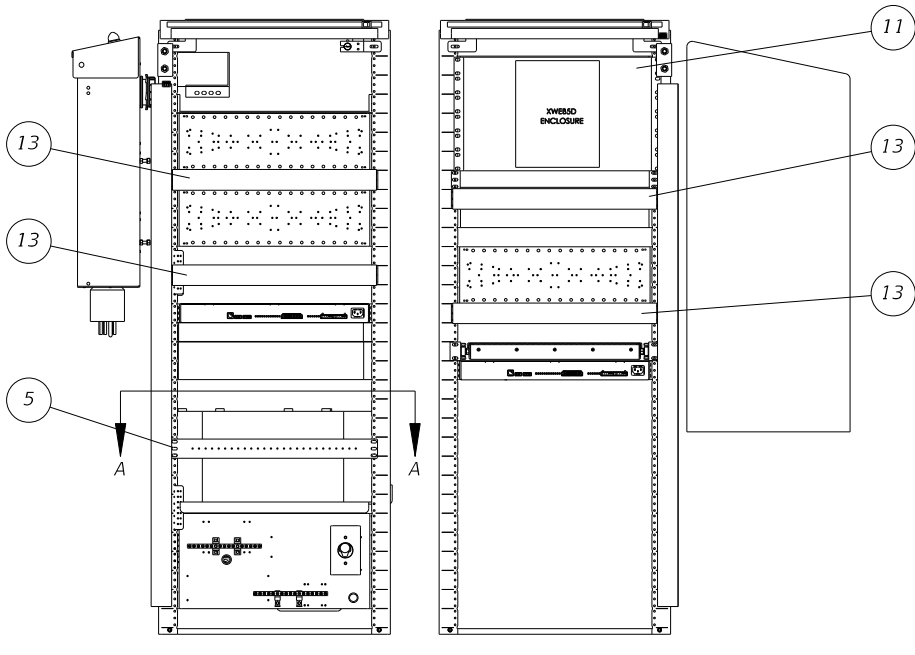
**MASTER COMMUNICATION
HUB CABINET DETAIL (3)**

SHEET
NO.

IT-79

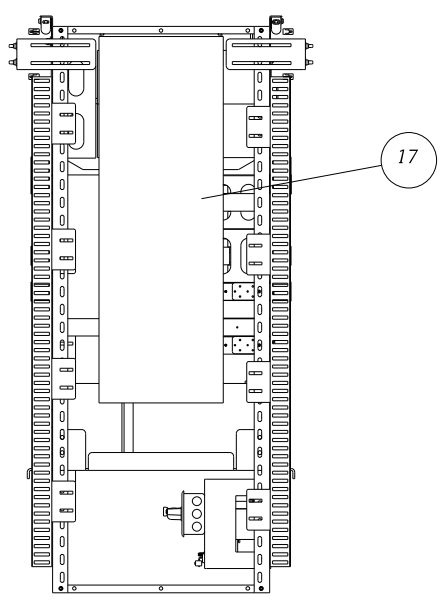
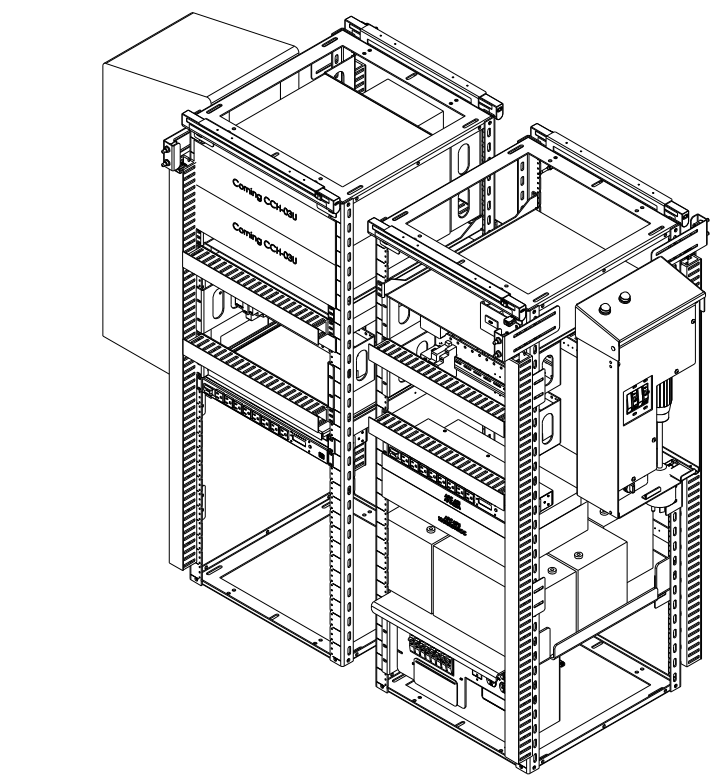


FRONT VIEW

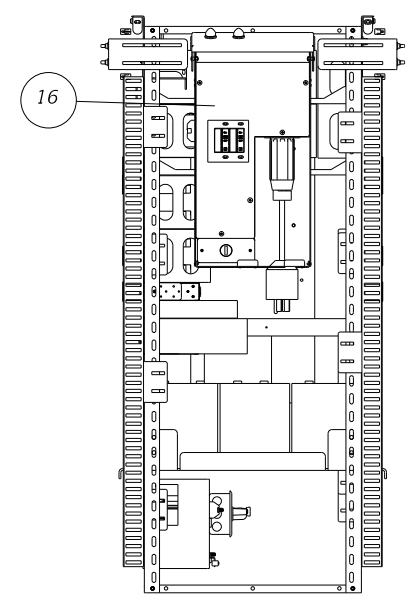


BACK VIEW

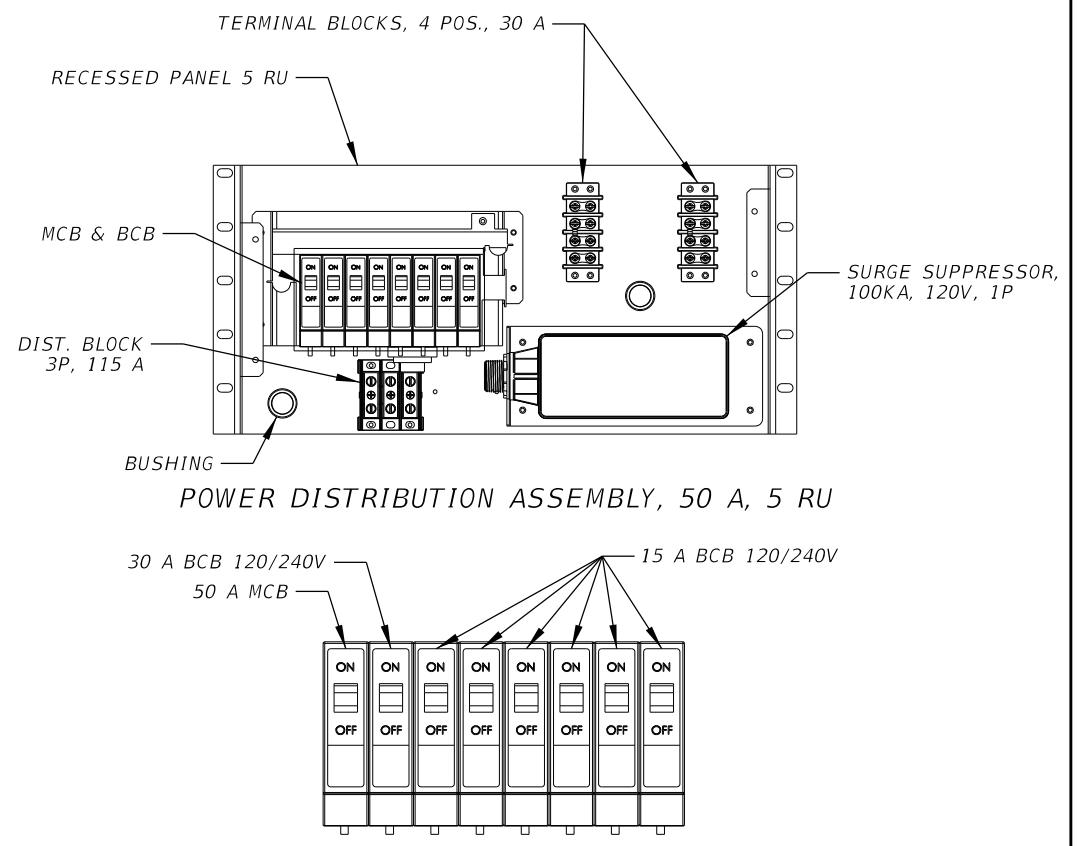
ITEM NO.	DESCRIPTION
1	61.5"H 21.25"W 21.5"D / 34 RU
2	BRACKET FOR LIGHT, RACK MOUNTED
3	BRACKET FOR DOOR SWITCH, RACK MOUNTED
4	DUCT BRACKET
5	1 RU RETAINER BRACKET, RACK MOUNTED
6	HEAVY DUTY, FULL DEPTH BATTERY SHELF
7	1 RU, FULL DEPTH SHELF
8	21" DEEP DRAWER
9	SECONDARY SURGE PANEL WITH 17" DIN RAIL, 3 RU
10	SECONDARY SURGE PANEL, 20A, CB
11	RECESSED PANEL, WEB CONTROLLER ASSEMBLY, AIR CONDITIONER
12	60A POWER DISTRIBUTION ASSEMBLY, 5 RU
13	HORIZONTAL WIRE DUCT ASSEMBLY
14	WIRE DUCT (PANDUIT)
15	RPMU (MUST BE ON FDOT APL)
16	ATS (50A GENERATOR)
17	AIR CONDITIONING, 5000 BTU/HR, REMOTE CONTROL WITH MODBUS
18	UPS DOUBLE CONVERSION WITH ATS
19	BATTERIES
20	FIBER OPTIC DISTRIBUTION HARDWARE
21	RUCKUS ICX-7550 X 48 F ETHERNET ROUTER
22	PoE SPD
23	24 VDC DIN RAIL MOUNTED SPD
24	RS485-SPD, DATA, DIN RAIL MOUNTED
25	120 VAC DIN RAIL MOUNTED SPD, 70 KVA



LEFT VIEW



RIGHT VIEW



REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

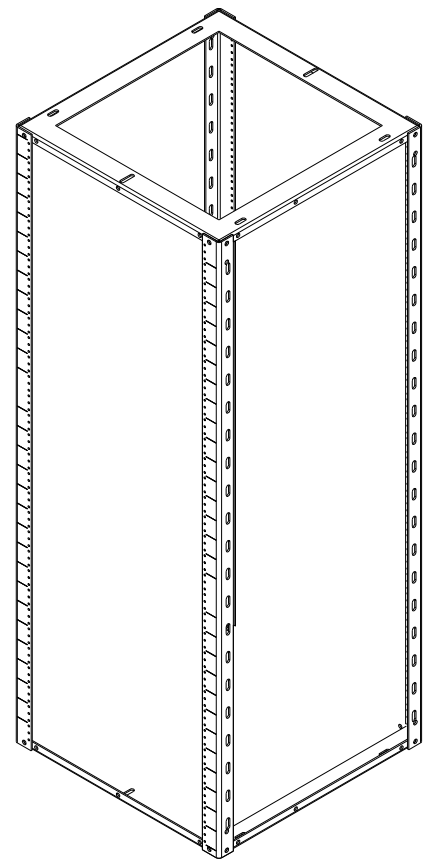


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

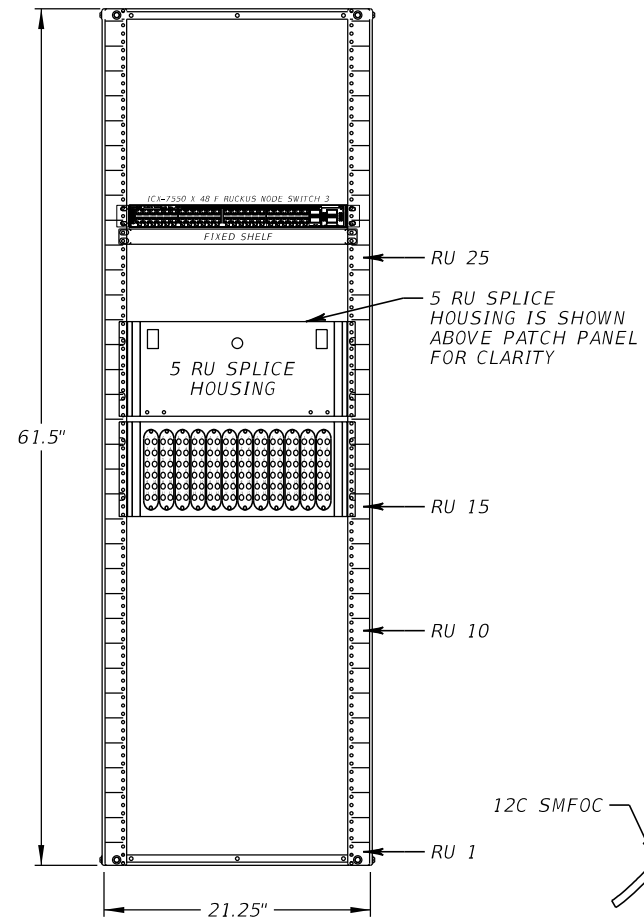
**MASTER COMMUNICATION
HUB CABINET DETAIL (A)**

SHEET NO.
IT-80

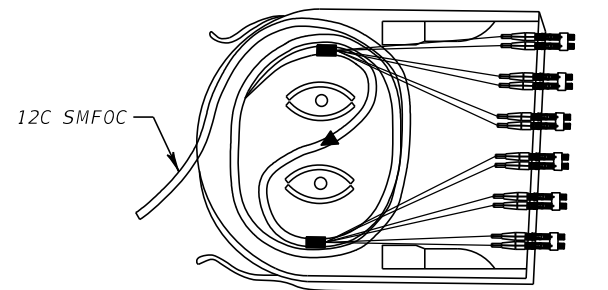
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



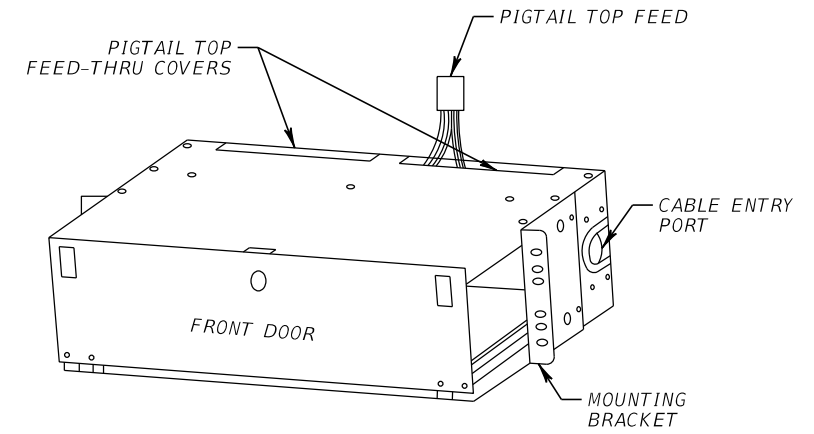
34 RU EIA CAGE
ISOMETRIC VIEW



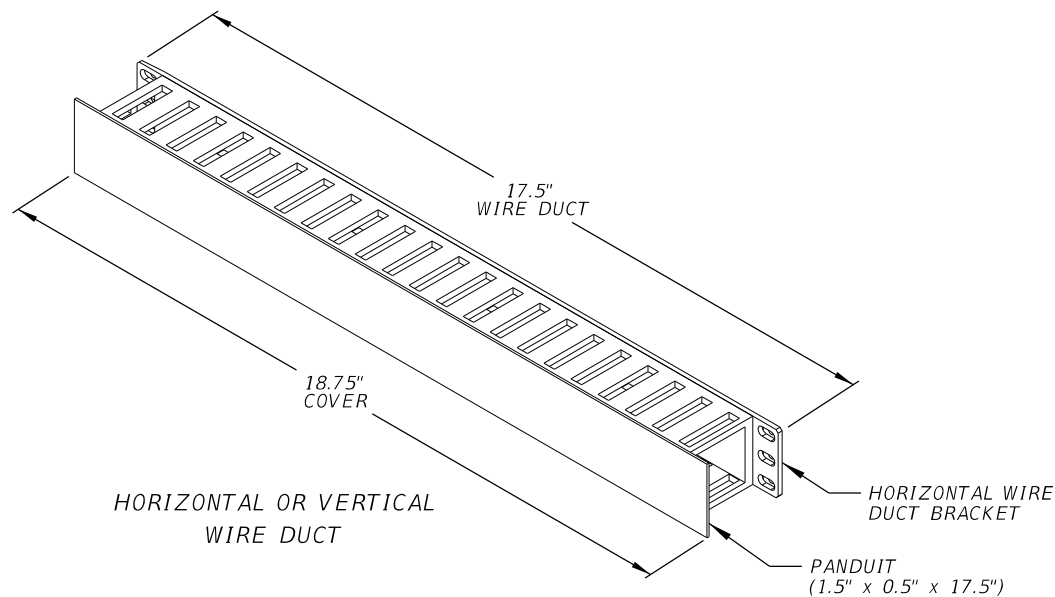
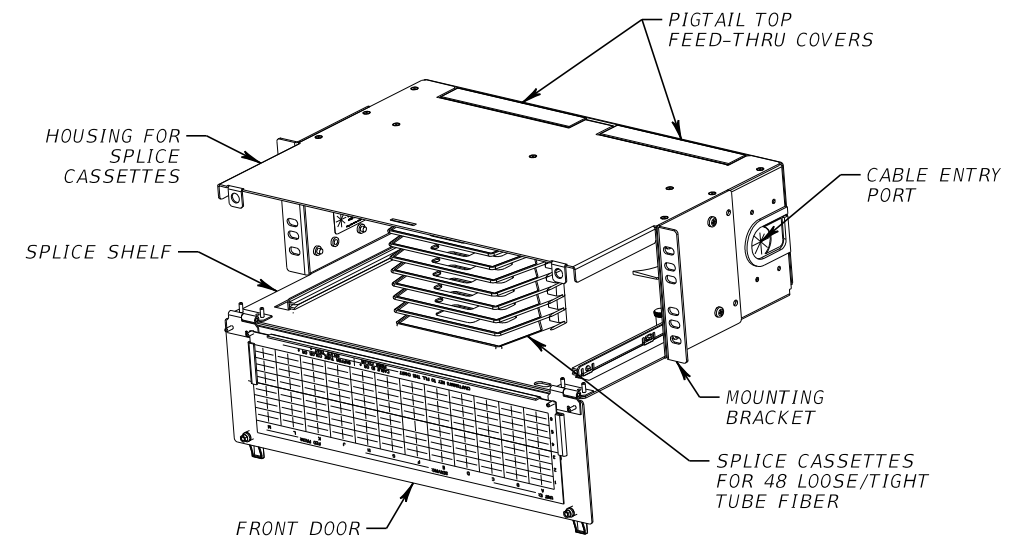
34 RU EIA CAGE
EACH RU = 1.75 INCHES



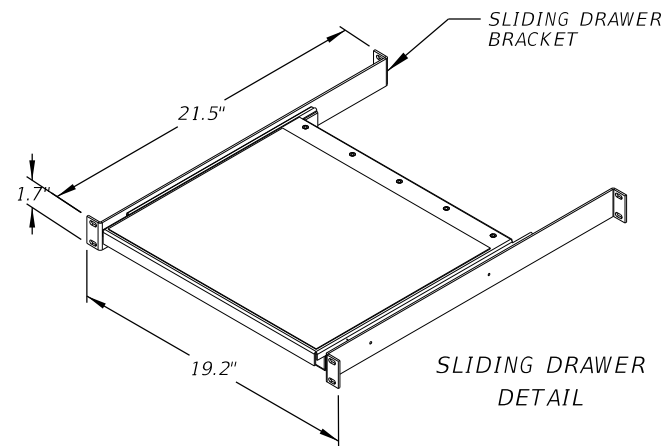
SPLICE AND TERMINATION CASSETTE
FOR LOOSE TUBE BUFFER



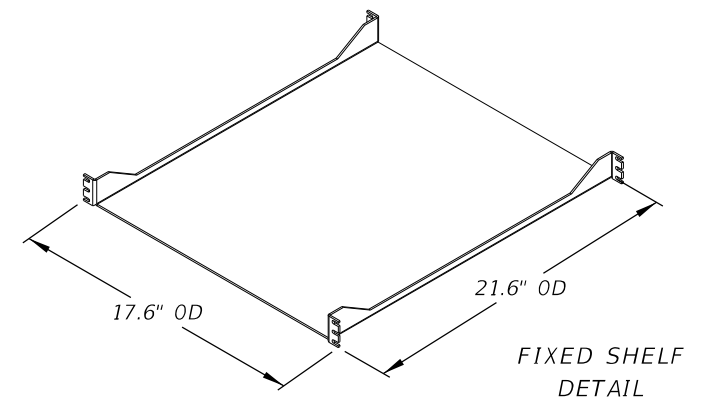
5 RU SPLICE HOUSING
8.75" H x 17" W x 12" D



HORIZONTAL OR VERTICAL
WIRE DUCT



SLIDING DRAWER
DETAIL



FIXED SHELF
DETAIL

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

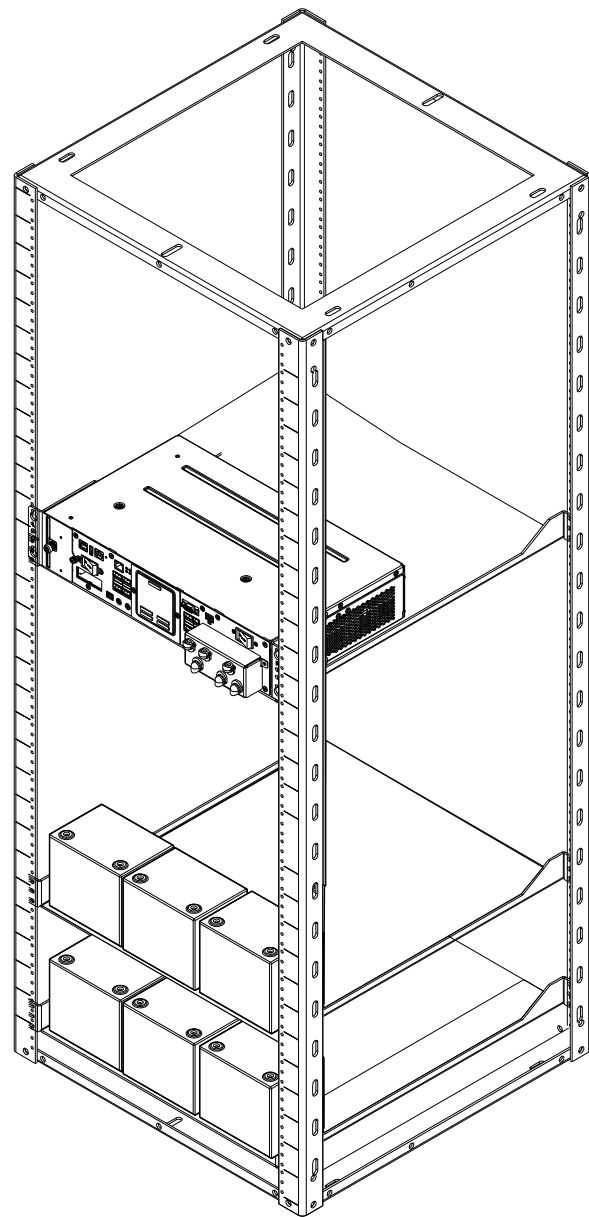


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

**19" RACK ASSEMBLY DETAILS FOR
LAYER 3 ETHERNET ROUTER**

SHEET
NO.

IT-81



ISOMETRIC VIEW
21.25" W x 61.5" H x 21.5" D

CONSTRUCTION NOTES:

1. FURNISH AND INSTALL 34 UNIT 4 - POST ADJUSTABLE METAL RACK OPEN SERVER FRAME AT THE LOCATION INSIDE THE EXISTING EQUIPMENT SHELTER BUILDING TO SUPPORT THE UPS, BATTERIES AND THE ASSOCIATED EQUIPMENT. THE EXACT LOCATION TO BE DETERMINED IN THE FIELD. EACH RU = 1.75 INCHES.
2. FURNISH AND INSTALL A DOUBLE CONVERSION UPS WITH AUTOMATIC TRANSFER SWITCH AS SPECIFIED IN THE PLANS.
3. PROVIDE AC POWER CONNECTION AND PERFORM TESTING PER MANUFACTURER RECOMMENDATIONS.
4. PROVIDE BATTERY CABLES, BATTERY CABLE HARDWARE, BATTERY HARNESS TO SECURE UPS CABLE WITH MULTIPLE BATTERY CONNECTORS AND ONE EXTENSION CABLE CONNECTOR, TEMPERATURE SENSOR CABLE, TERMINAL BLOCK AND CABLE TIES.
5. THE COST OF OPEN-FRAME SERVER RACK IS INCLUDED IN THE UPS UNIT PRICE.
6. SUBMIT APPROVED BATTERY PRODUCT QUANTITIES THAT PROVIDE 8 HOURS OF POWER BACKUP TIME AT 75% EFFICIENCY.

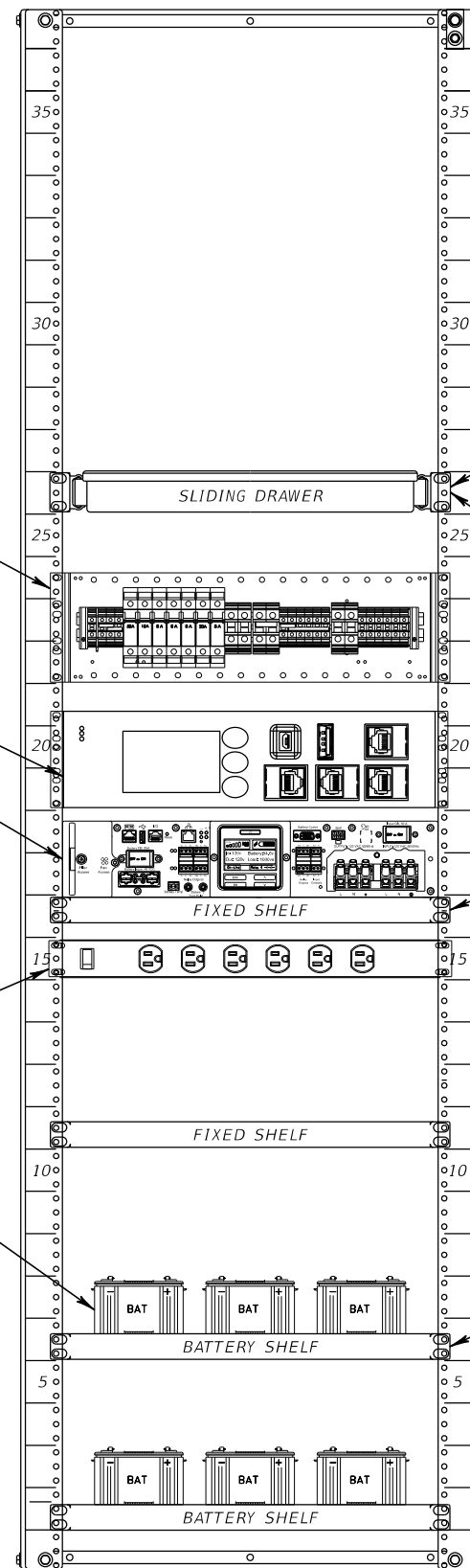
PROVIDE TWO DBL CONVERSION SMART UPS, 2KVA / 1800W 120VAC IN/OUT/RM WITH SNMP BOARD SEE PERFORMANCE SPECIFICATIONS

UPS OUTPUT L-N-G

RACK MOUNTED ATS

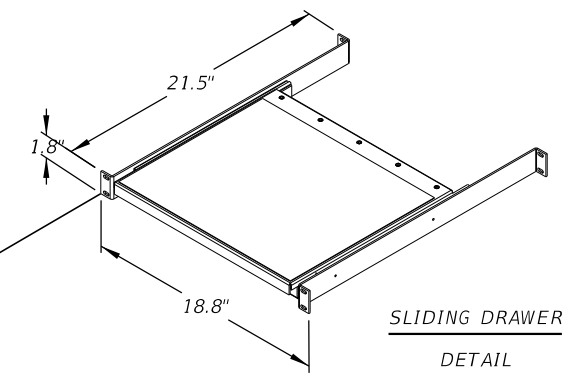
RPMU

100 Ah, 12 VDC EXTENDED TEMPERATURE SHELF MOUNTED BATTERIES

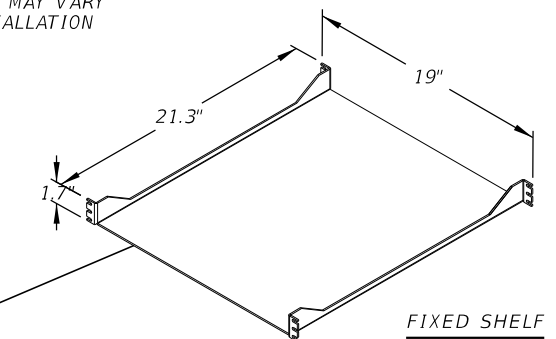


FRONT VIEW
21.25" W x 61.5" H x 21.5" D
UPS AND BATTERIES

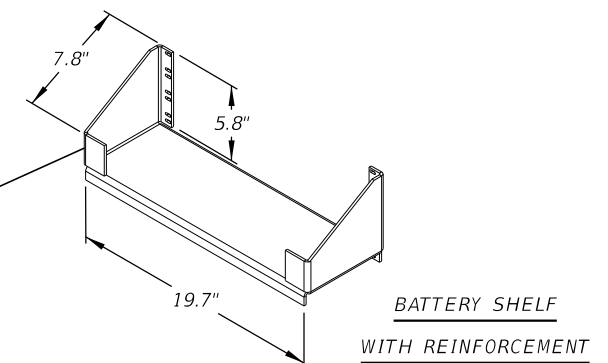
19" RACK ASSEMBLY DETAILS



SLIDING DRAWER
DETAIL



FIXED SHELF
DETAIL



BATTERY SHELF
WITH REINFORCEMENT
DETAIL

LOCATION MAY VARY PER INSTALLATION

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



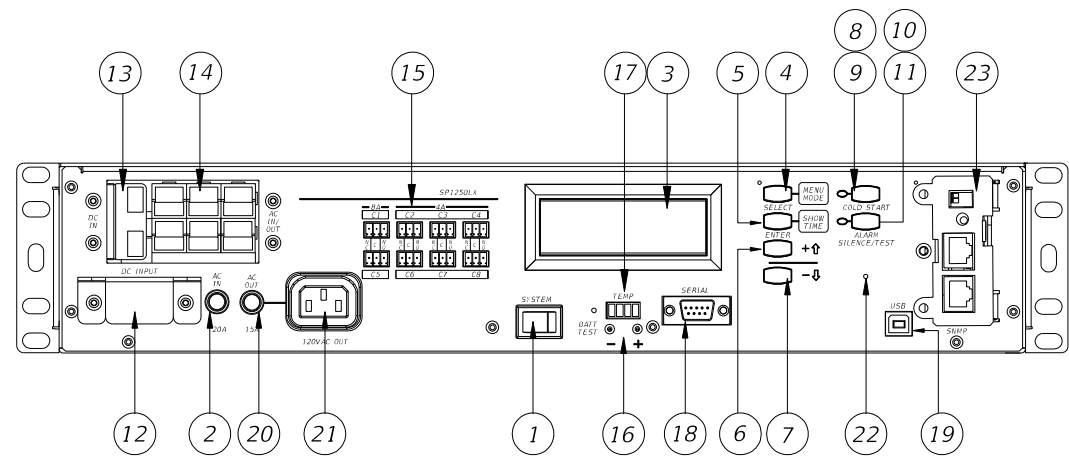
GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

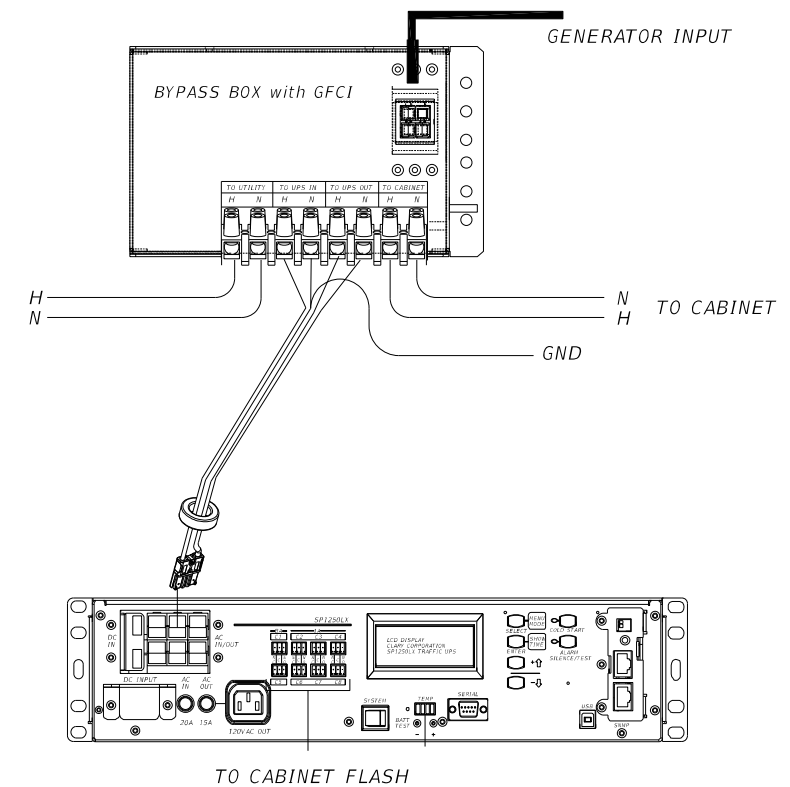
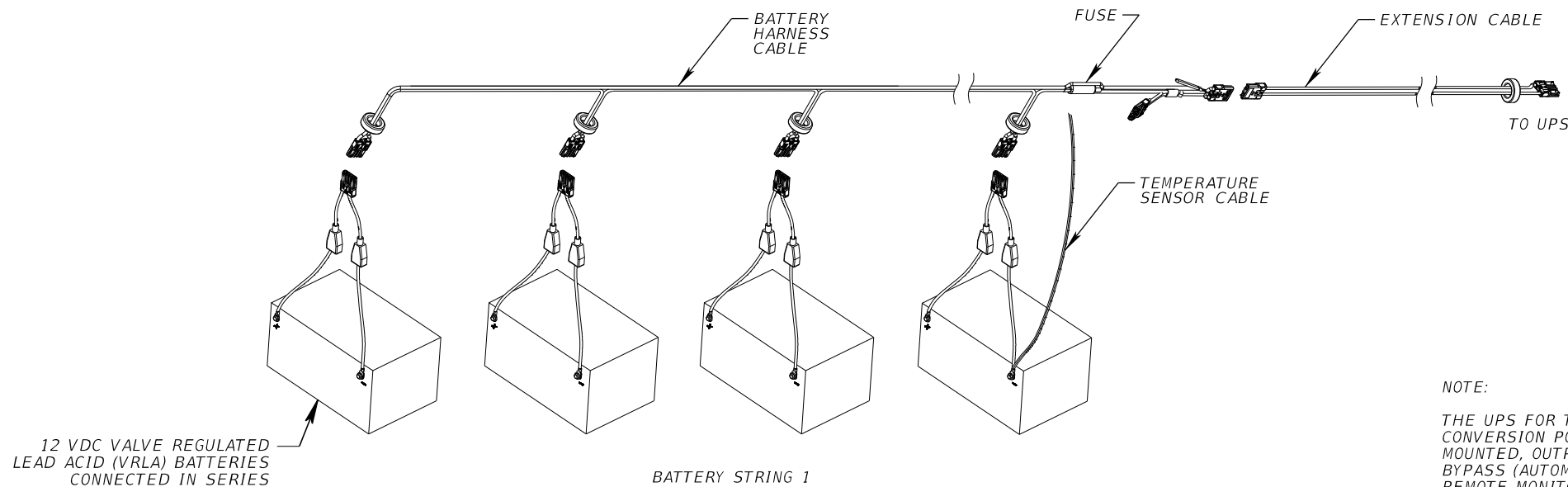
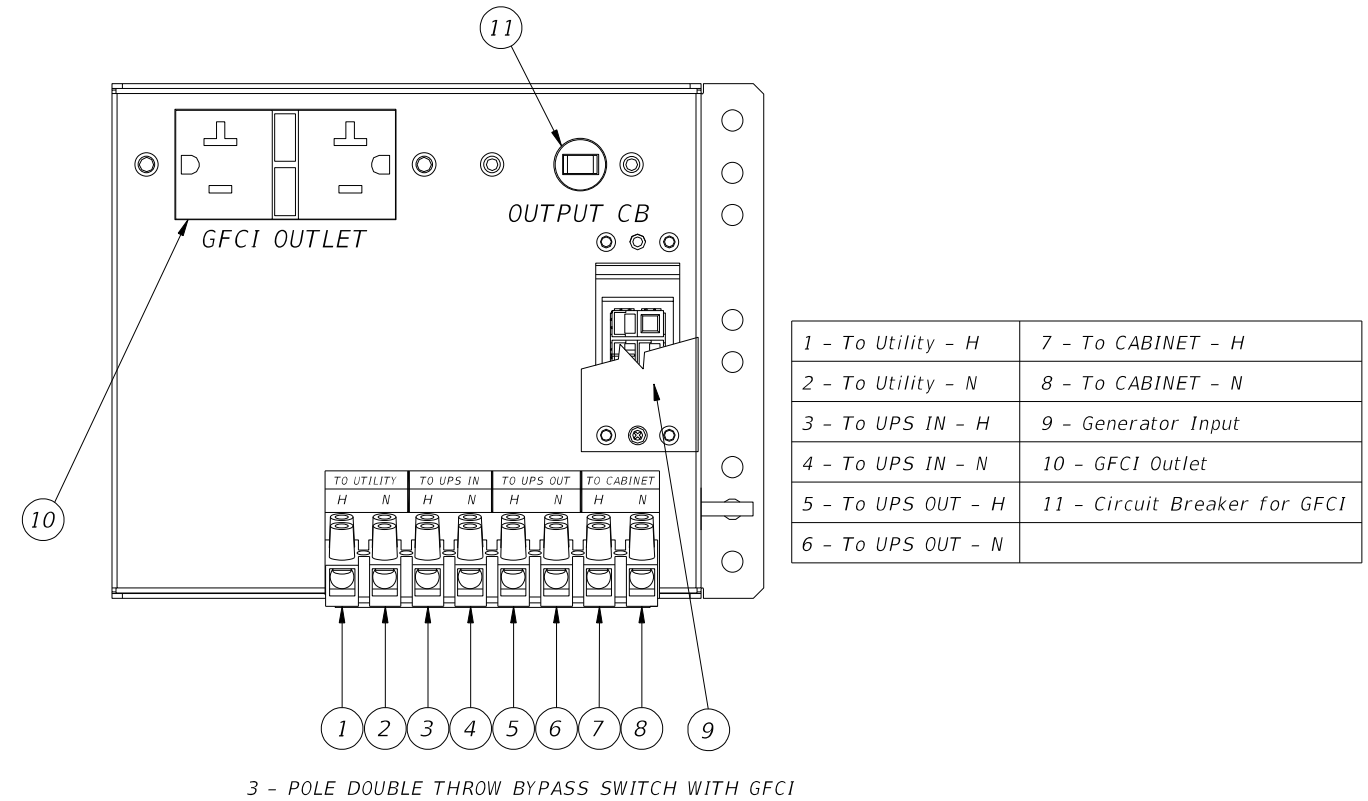
19" RACK ASSEMBLY DETAILS FOR
UPS AND BATTERIES

SHEET NO.
IT-82



- | | |
|---|--|
| 1 SYSTEM POWER SWITCH | 15 RELAYS - NO/NC CONTACTS FOR FLASH |
| 2 INPUT AC LINE | 16 BATTERY TEST POINTS |
| 3 LCD DISPLAY | 17 AUX. TEMP. SENSOR |
| 4 SELECT/MENU MODE | 18 RS 232 SERIAL CABLE |
| 5 ENTER/SHOW | 19 USB - COMPUTER COMM. |
| 6 UP ARROW + | 20 CIRCUIT BREAKER - PROTECTION FOR OUTPUT RECEPTACLES |
| 7 DOWN ARROW - | 21 OUTPUT RECEPTACLE - CONTINUOUS POWER RECEPTACLES |
| 8 COLD START - DC START SWITCH | 22 PROGRAMMING BUTTON |
| 9 COLD START INDICATOR | 23 SNMP |
| 10 ALARM SILENT/TEST - DUAL FUNCTION SWITCH | |
| 11 ALARM SILENT/TEST - ACKNOWLEDGE INDICATOR | |
| 12 DC INPUT - PROTECTION CIRCUIT BREAKER FOR BATTERY | |
| 13 ALARM SILENT/TEST - ACKNOWLEDGE INDICATOR | |
| 14 DC IN - INPUT RECEPTACLE FOR ALL DC POWER TO BATTERIES | |

UPS TEMPERATURE RATING : -40°C TO +74°C (-40°F TO + 165°F)
 DIMENSIONS: 3.5" x 19.0" x 10.0" (2U)
 WEIGHT: 13 LBS
 BATTERIES: 12 VDC, 100 Ah, PROVIDING 8 HOUR RUNTIME
 U.L. LISTED
 CAPACITY AMP-HOURS (Ah): 100-110



NOTE:
 THE UPS FOR THIS PROJECT IS AN INTEGRATED POWER INTERFACE MODULE, REGULATION DUAL CONVERSION POWER WITH PROGRAMMABLE DISPLAY, 2000VA/1800 WATT, 120VAC IN/OUT, 2 U RACK MOUNTED, OUTPUT CONNECTOR TYPE, TO BE HARD WIRED (3-WIRE), DOUBLE CONVERSION, INTERNAL BYPASS (AUTOMATIC AND MANUAL), EQUIPPED WITH ETHERNET PORT, SUPPORTS SNMP PROTOCOL FOR REMOTE MONITORING AND MANAGEMENT. THE UPS TO BE SIZED TO ACCOMMODATE THE MAXIMUM CONNECTED LOADS SPECIFIED IN THE PLANS.

REVISIONS	
DATE	DESCRIPTION



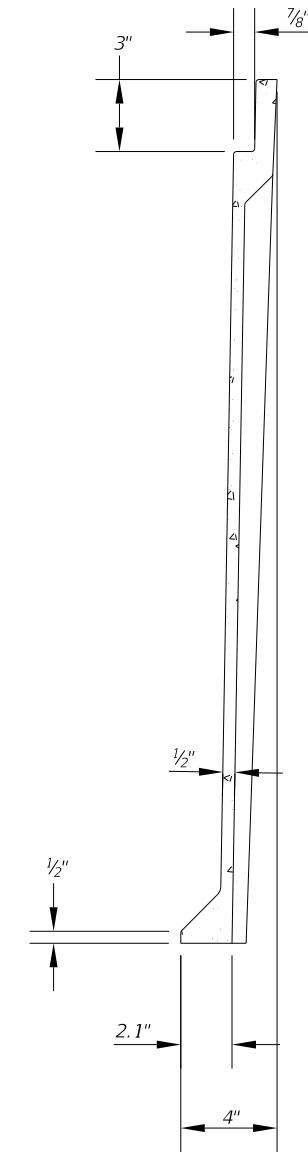
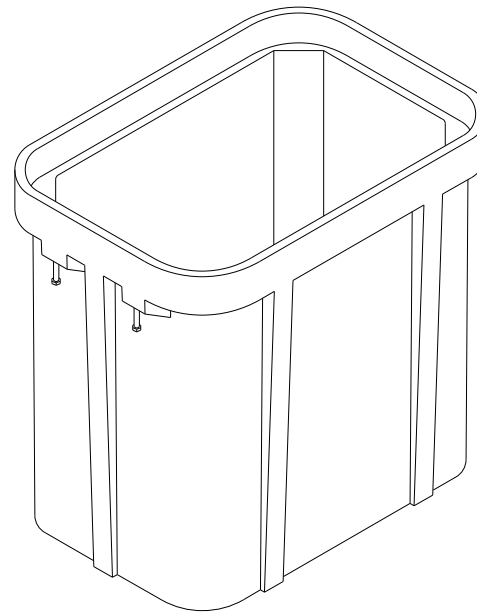
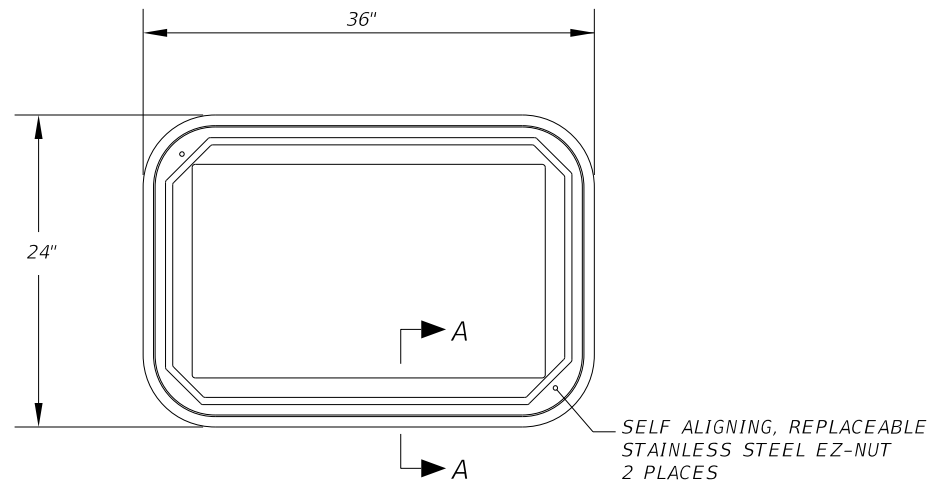
GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945



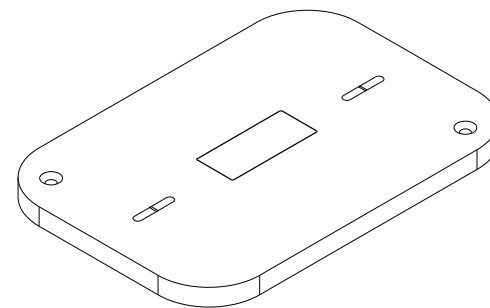
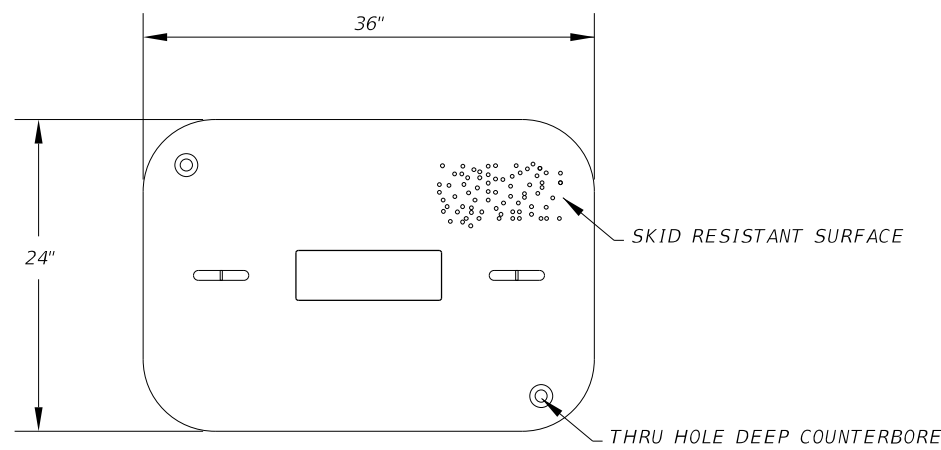
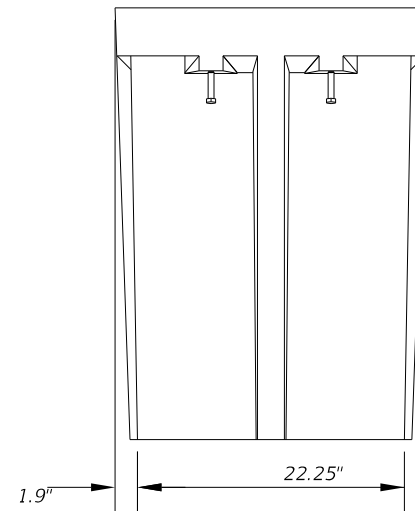
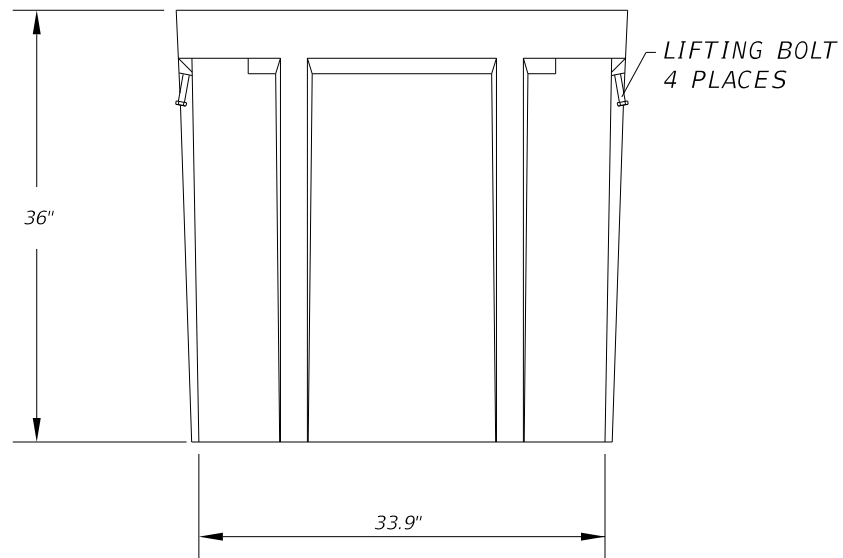
ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

**UNINTERRUPTIBLE POWER
 SUPPLY DETAIL**

SHEET NO.
 IT-83



SECTION A-A



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
 P.E. LICENSE NUMBER 96562
 HDR ENGINEERING, INC.
 25 WEST CEDAR STREET, SUITE 200
 PENSACOLA, FL 32502-5945

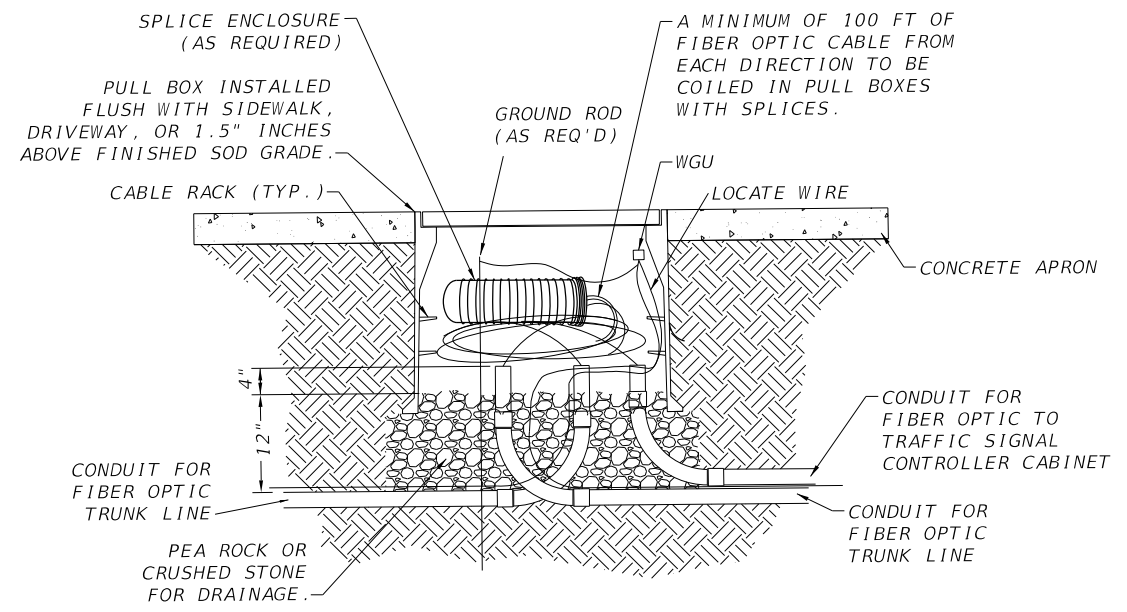
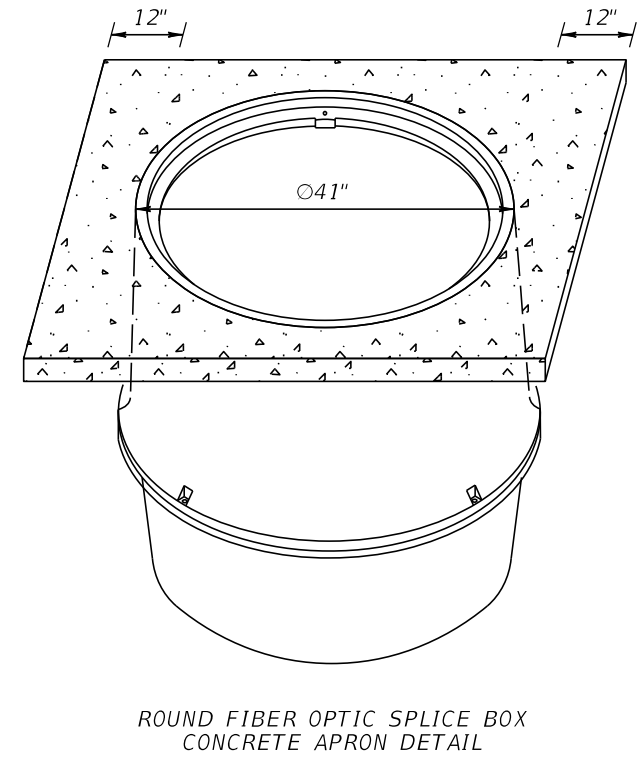
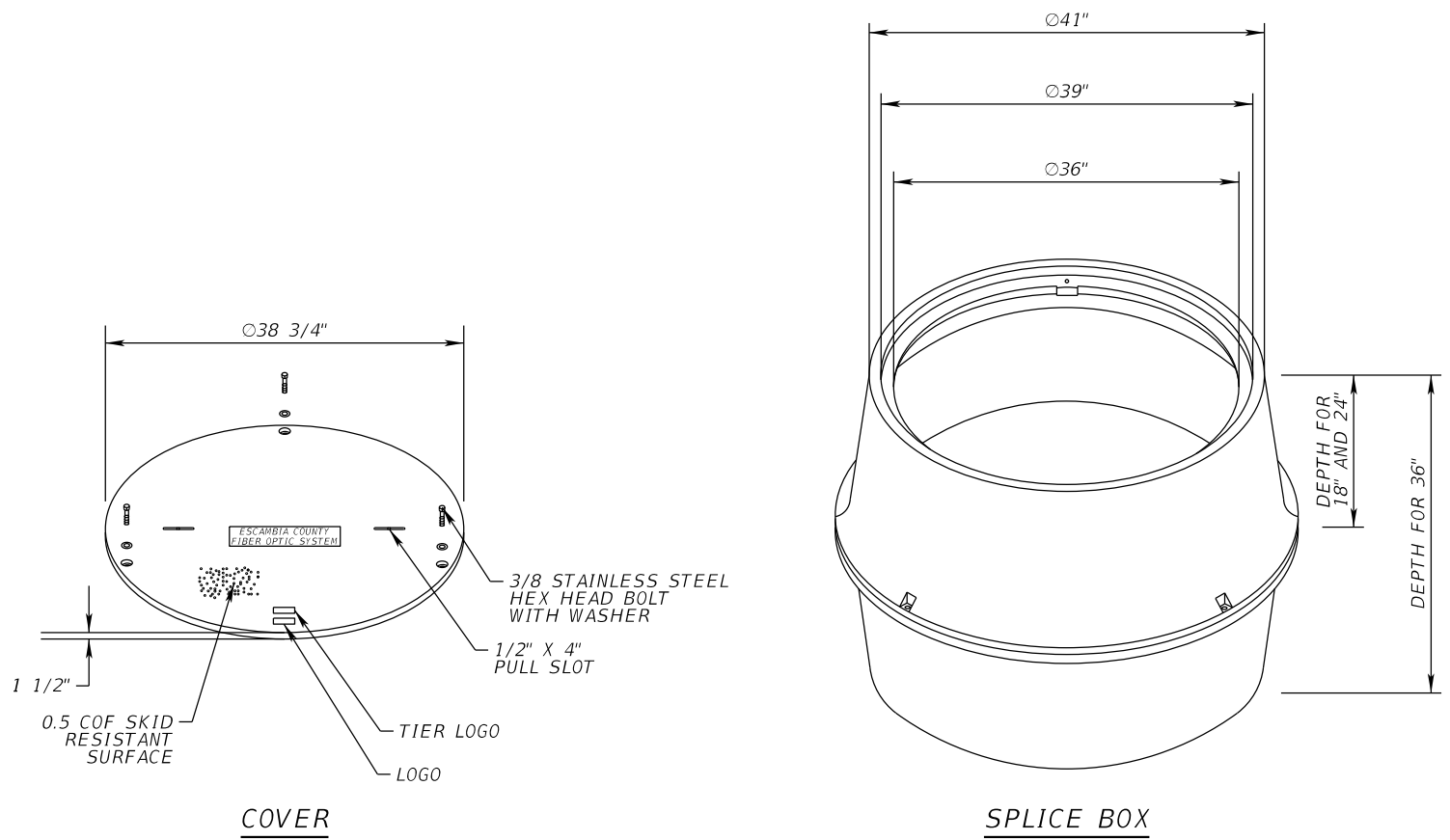


ESCAMBIA COUNTY
 ENGINEERING DEPARTMENT
 US 29 / PENSACOLA BLVD
 AND SR 727/295 FAIRFIELD DR
 FIBER OPTIC IMPROVEMENTS

**FIBER OPTIC
 PULL BOX DETAIL**

SHEET NO.

IT-84



REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

**FIBER OPTIC
SPLICE BOX DETAIL**

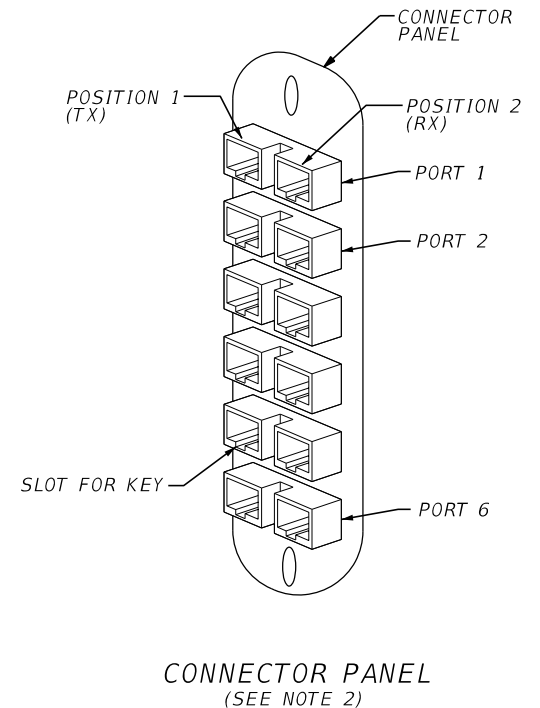
SHEET NO.
IT-85

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

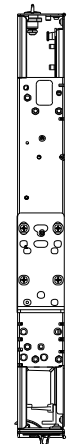
UPLINK		TRAFFIC SIGNAL CABINET PATCH PANELS										DOWNLINK	
NO.	BUFFER	FIBER	PANEL	PORT #	POSITION	SPLICE	DROP IN	DROP OUT	PANEL	PORT #	POSITION	NO.	
1	BL	BL	A	1	1	TX	1	7	A	1	2	1	
2	BL	OR	A	1	2	RX	2	8	A	1	1	2	
3	BL	GR	A	2	1	TX	3	9	A	2	2	3	
4	BL	BR	A	2	2	RX	4	10	A	2	1	4	
5	BL	SL	A	3	1	TX	5	11	A	3	2	5	
6	BL	WH	A	3	2	RX	6	12	A	3	1	6	
7	BL					SPLICE						7	
8	BL					SPLICE						8	
9	BL					SPLICE						9	
10	BL					SPLICE						10	
11	BL					SPLICE						11	
12	BL					SPLICE						12	

NOTES:

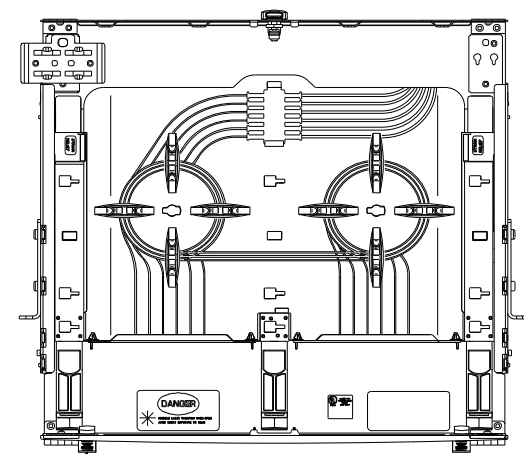
- ADDITIONAL PATCH PANEL REQUIREMENTS INCLUDE THE FOLLOWING:
 - SIGNAL CABINET: 12 PORTS, LC CONNECTORS
 - DUPLEX CONNECTORS
 - 19" W EIA WIDTH
 - MULTIPLE LOCATIONS FOR JUMPER EGRESS
 - SLIDE-OUT DRAWER FOR EASY CONNECTOR ACCESS
 - MEETS REQUIREMENTS OF ANSI/TIA/EIA-568A AND 606
- CONNECTOR PANEL DETAIL TO BE USED AS A GRAPHICAL REPRESENTATION OF POSITION AND PORT NUMBERS OF THE PANEL ONLY. CONNECTOR TYPES MAY VARY PER APPLICATION.
- FIBERS 1-4 ARE USED FOR INTERCONNECT BETWEEN INTERSECTION PATCH PANELS. FIBERS 5-12 ARE TO REMAIN SPLICED THROUGH TO BE USED AS LOOPBACKS OR THROUGH CONNECTIONS BETWEEN MAJOR SPLICE ENCLOSURES OR NODE CABINETS.
- BUFFERS TO BE USED IN SEQUENCE WHENEVER POSSIBLE WITH SLATE BEING THE MAIN INTERCONNECT FOR THE INSTALLED CORRIDOR AND ORANGE BEING THE CONNECTION TO ANCILLARY CORRIDORS.
- FURNISH AND INSTALL ONE - 24 COUNT CAPACITY CORNING CONNECTOR HARDWARE. SEE THIS SHEET FOR DETAILS.
- FURNISH AND INSTALL 12 PRE-TERMINATED CONNECTOR PANELS (PATCH PANELS) AT THE CONNECTOR HARDWARE.
- PORT ASSIGNMENTS AND IP ADDRESSING TO BE PROVIDED BY ESCAMBIA COUNTY NETWORK ENGINEER.



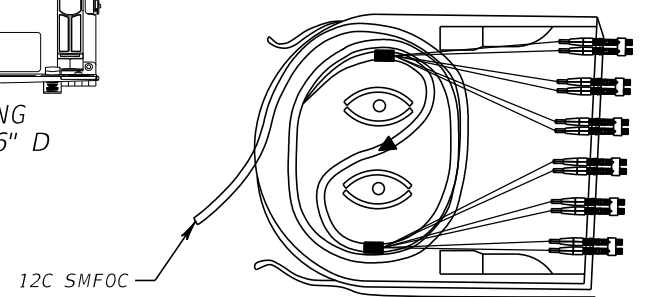
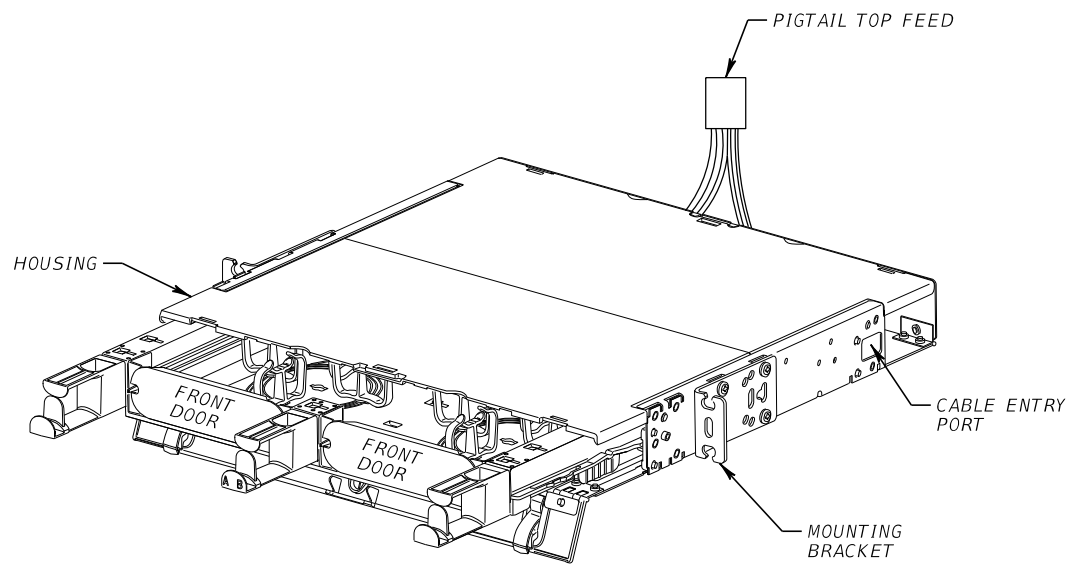
SIDE VIEW



TOP VIEW (WITH COVER REMOVED)



1 RU SPLICE HOUSING
1.73" H x 17.1" W x 16" D
PRESS PLUNGERS TO INSTALL ADAPTER PANEL



SPLICE AND TERMINATION CASSETTE FOR LOOSE TUBE BUFFER

REVISIONS	
DATE	DESCRIPTION



GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945

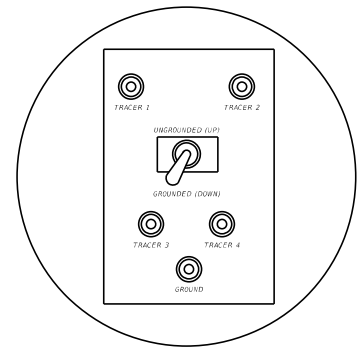


ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

**SIGNAL CABINET FIBER OPTIC
DISTRIBUTION PANEL DETAIL**

SHEET NO.
IT-86

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

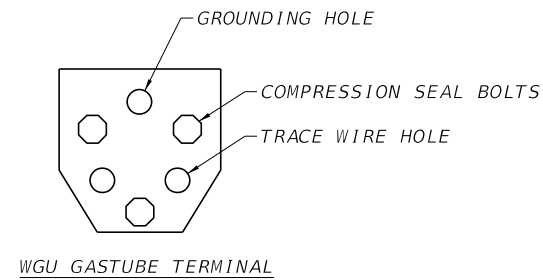
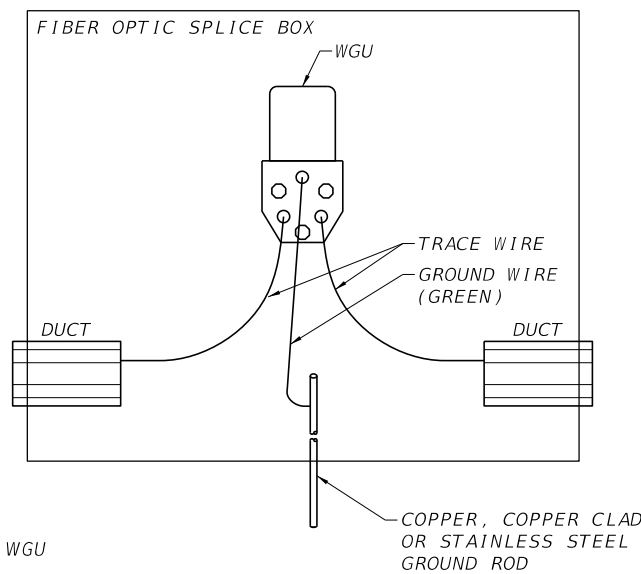


SECTION A-A
TAPERDOME CAP W/WATER-CORROSION
RESISTANT TEST SWITCH

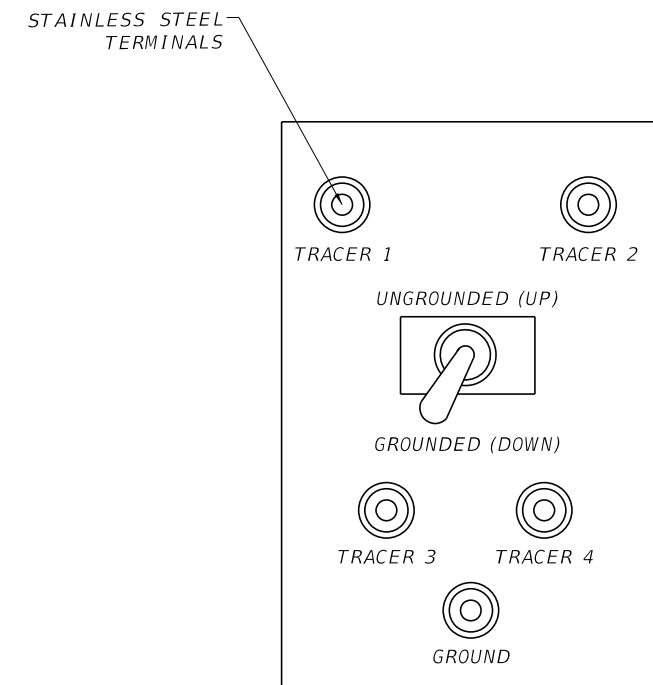
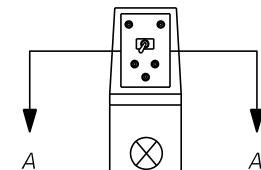
WIRE GROUND UNIT INSTALLATION NOTES

1. INSTALL WGU AT EACH FIBER OPTIC SPLICE BOX AND PULL BOX.
2. ROUTE THE TRACE WIRE(S) FROM THE EXTERNAL DUCTS TO THE WGU LOCATION. LEAVE A SLACK LOOP IN CASE THE TRACE WIRE GETS DAMAGED EITHER DURING INSTALLATION OR AFTERWARDS.
3. PERFORM THE INSTALLATION OF THE TRACE WIRE INTO THE WGU PRIOR TO MOUNTING PERMANENTLY TO THE WALL OF THE SPLICE BOX.
4. PROVIDE STAINLESS STEEL SHUNT TO CREATE CONTINUITY BETWEEN ANY TWO ADJACENT TERMINALS.
5. CONNECT TRACE WIRE CONDUCTOR ON GASTUBE TERMINAL AND TIGHTEN DOWN USING 3/8" NUT DRIVER.
6. AN ORANGE TAPERDOME TOP SHALL BE INSTALLED ON EACH ELECTRONIC ROUTE MARKER.

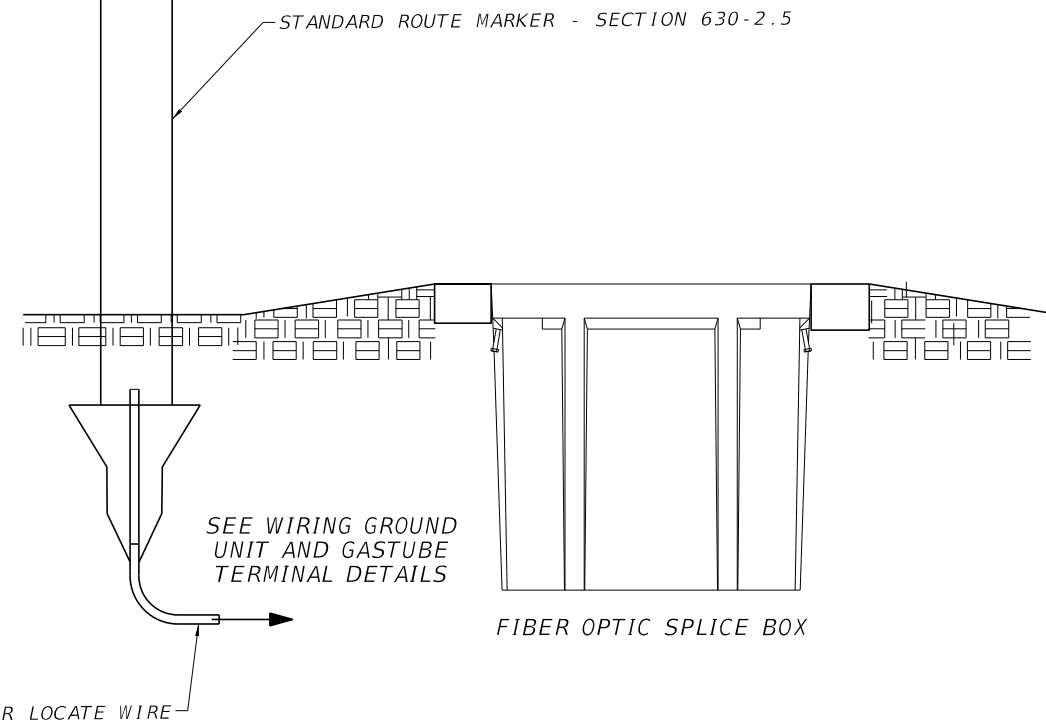
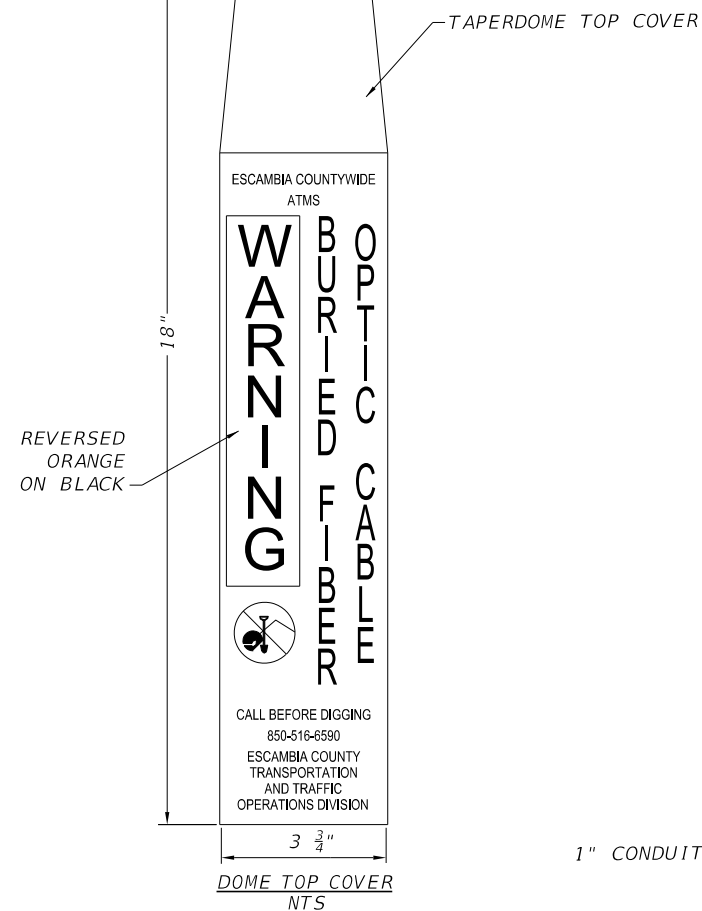
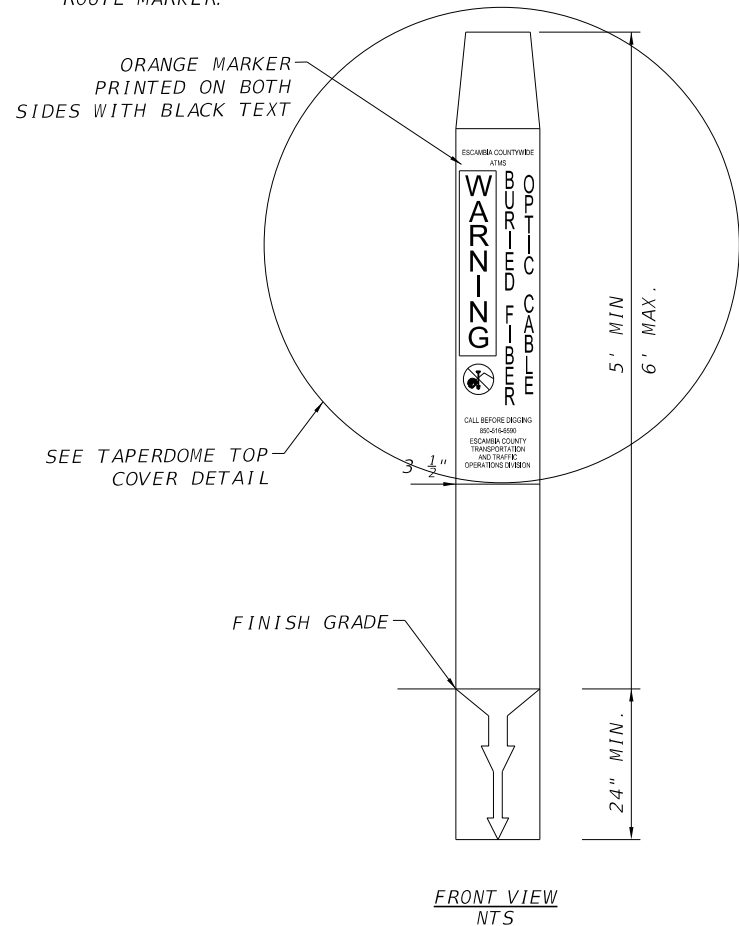
WIRE GROUND UNIT DETAIL



ELECTRONIC ROUTE MARKER TEST STATION



WATER RESISTANT
TEST SWITCH



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS	
DATE	DESCRIPTION



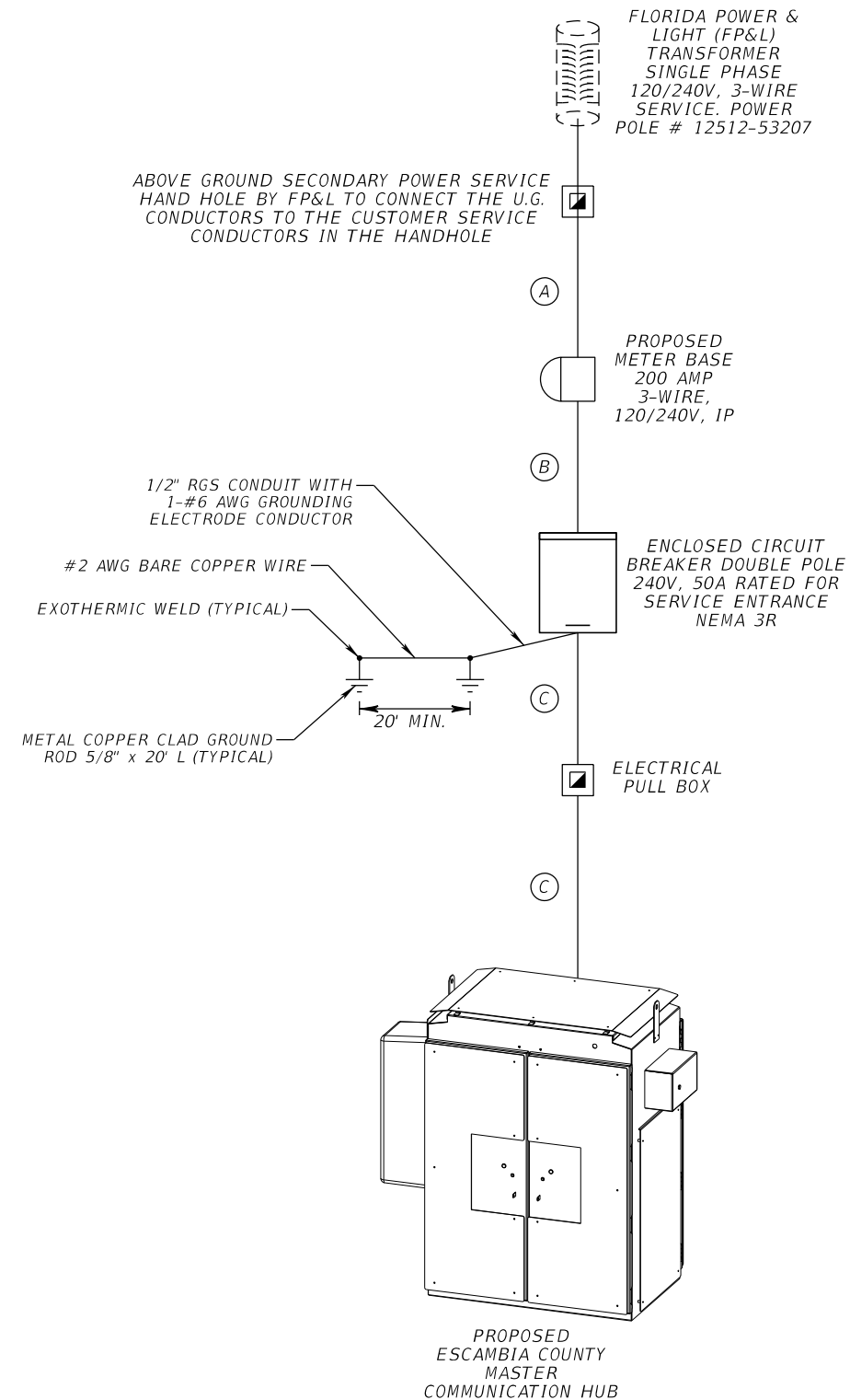
GREGORY A. STEVANUS JR.
P.E. LICENSE NUMBER 96562
HDR ENGINEERING, INC.
25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502-5945



ESCAMBIA COUNTY
ENGINEERING DEPARTMENT
US 29 / PENSACOLA BLVD
AND SR 727/295 FAIRFIELD DR
FIBER OPTIC IMPROVEMENTS

ELECTRONIC ROUTE MARKER
WIRING GROUND UNIT DETAILS

SHEET NO.
IT-87



LEGEND	DESCRIPTION	LEGEND	DESCRIPTION
(A)	SERVICE FEEDER IN 2" CONDUIT WITH #2 AWG TRIPLEX ALUMINUM CONDUCTOR AND 3-#2 AWG FROM WEATHER HEAD TO MAIN		METER BASE AND ENCLOSURE IN ACCORDANCE WITH FP&L REQUIREMENTS
(B)	1 1/4" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT WITH 3-#2 AWG INCOMING PHASE (L1, L2) INCOMING NEUTRAL (N) AND 1-#6 AWG CU, GREEN INSULATED GROUND TO METER		SERVICE MAIN DISCONNECTING MEANS 240V, 2-POLES AMP RATING SIZE AS NOTED
(C)	2" CONDUIT WITH 3-#6 AWG, 1-#6 AWG GND. CONDUCTORS		ELECTRICAL PULL BOX

Equipment	Watts	Quantities	Volt-Amps	Demand Factor	Design Volt-Amps
Ethernet Switch	166.8	1	185.33	1.25	231.67
AC Unit		1	1008.00	1.25	1260.00
UPS Battery charger	60	2	133.33	1.25	166.67
Remote Power Management System	5.3	1	5.89	1.25	7.36
PoE Injector	75	1	83.33	1.25	104.17
Fans	12	2	26.67	1.25	33.33
Lights	10	2	22.22	1.25	27.78
Total Load in Volt-Amps (VA)			1464.78		1830.97
Maintenance GFCI Receptacle		1	600	1	600
Total VA Load			2064.78		2430.97
Total Load (A) @ 240 Volts					10.13

- GENERAL NOTES:**
- FOR CONDUCTOR SIZE AS SHOWN ON PLANS, LARGER THAN THE BREAKER/DISCONNECT LUG AT WHICH IT ORIGINATES OR TERMINATES INSTALL A PULL BOX AT THE BASE OF THE POLE OR A JUNCTION BOX ON THE FACE OF THE POLE, SIZED PER NEC, IN ORDER TO SPLICE WITH APPROVED COMPRESSION METHODS.
 - PERFORM ALL ELECTRICAL WORK IN ACCORDANCE WITH POWER COMPANY FDOT STANDARDS AND SPECIFICATIONS, NEC, NESC, AND OSHA.
 - SEE PLAN SHEETS FOR APPROXIMATE LOCATION OF THE POINT OF CONNECTION. COORDINATE WITH POWER COMPANY FOR THE SERVICE SOURCE AND POINT OF CONNECTION, EXACT LOCATIONS AND THE NECESSARY REQUIREMENTS FOR A COMPLETE AND OPERATIONAL ELECTRICAL POWER SERVICE.
 - PROVIDE ALL ELECTRICAL EQUIPMENT WITH 75°C TERMINALS LUGS AND BLOCKS.
 - COORDINATE WITH POWER COMPANY TO OBTAIN THE MAXIMUM AVAILABLE FAULT CURRENT AT THE UTILITY TRANSFORMER SECONDARY BUSHING AND PROVIDE A MAIN SERVICE ENCLOSED CIRCUIT BREAKER WITH A KAIC RATING TO MATCH OR EXCEED THE FAULT CURRENT.

	REVISIONS DATE DESCRIPTION	<p>GREGORY A. STEVANUS JR. P.E. LICENSE NUMBER 96562 HDR ENGINEERING, INC. 25 WEST CEDAR STREET, SUITE 200 PENSACOLA, FL 32502-5945</p>	<p>ESCAMBIA COUNTY ENGINEERING DEPARTMENT US 29 / PENSACOLA BLVD AND SR 727/295 FAIRFIELD DR FIBER OPTIC IMPROVEMENTS</p>	<p>ITS POWER SERVICE ELECT. ONE LINE DIAGRAM</p>	SHEET NO. IT-88
		GSTEVANU	10/27/2025 1:10:38 AM PW:\		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

APPLY FDOT STANDARD PLANS 102-615 AND THESE GENERAL NOTES

GENERAL NOTES


1. WORK OPERATIONS SHALL BE CONFINED TO EITHER ONE LANE, OR LANE COMBINATIONS AS FOLLOWS:
 - A. OUTSIDE TRAVEL LANE;
 - B. OUTSIDE AUXILIARY LANE;
 - C. OUTSIDE TRAVEL LANE AND ADJOINING AUXILIARY LANE;

IF THE WORK AREA IS CONFINED TO AN AUXILIARY LANE THE WORK AREA SHALL BE BARRICADED AND THE "RIGHT LANE CLOSED AHEAD" SIGNS REPLACED BY "ROAD WORK AHEAD" SIGNS, AND THE MERGE SYMBOL SIGNS ELIMINATED.
2. WHEN VEHICLES IN A PARKING ZONE BLOCK THE LINE OF SIGHT TO TCP SIGNS, THE SIGNS SHALL BE POST MOUNTED AND LOCATED IN ACCORDANCE WITH INDEX NO. 700 - 101
3. IF THE WORK SPACE EXTENDS ACROSS A CROSSWALK, THE CROSSWALK SHOULD BE CLOSED USING THE INFORMATION IN INDEX NO. 102 - 660.
4. SIGNS ARE REQUIRED ON THE MEDIAN SIDE FOR DIVIDED HIGHWAYS.
5. THE TWO CHANNELIZING DEVICES DIRECTLY IN FRONT AND DIRECTLY AT THE END OF THE WORK AREA MAY BE OMITTED PROVIDED VEHICLES IN THE WORK AREA HAVE HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS OPERATING.
6. THE "SPEEDING FINES DOUBLED WHEN WORKERS PRESENT" SIGN (MOT-13-06) AND "END ROAD WORK" SIGN (G20-2), ALONG WITH ASSOCIATED WORK ZONE SIGN DISTANCES, MAY BE OMITTED WHEN THE WORK ZONE WILL BE IN PLACE FOR 24 HOURS OR LESS. ADDITIONALLY, ARROW BOARDS MAY BE OMITTED WHEN THE WORK ZONE WILL BE IN PLACE FOR 60 MINUTES OR LESS AND THE SPEED LIMIT IS 45 MPH OR LESS.
7. THE CONTRACTOR SHALL PERFORM WORK IN SUCH A MANNER AND SEQUENCE AS TO MAINTAIN VEHICULAR TRAFFIC AND PEDESTRIAN MOVEMENTS AT ALL TIMES AND TO MAINTAIN FULL ACCESS TO ADJACENT PRIVATE PROPERTIES AS APPROVED BY THE PROJECT MANAGER. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO ENSURE A MINIMUM DELAY TO TRAFFIC. EQUIPMENT AND PERSONNEL NECESSARY TO ATTAIN AND MAINTAIN A SATISFACTORY RIDING SURFACE SHALL BE AVAILABLE AND USED PROMPTLY AS NEEDED, BOTH WHEN WORK IS UNDERWAY AND WHEN WORK IS TEMPORARILY SUSPENDED. THE CONTRACTOR SHALL GIVE SPECIAL ATTENTION TO MAINTENANCE OF A SATISFACTORY TRAVEL WAY OVER WEEKENDS, HOLIDAY, AND OTHER NON-CONSTRUCTION TIMES.
8. THE CONTRACTOR IS PLACED ON NOTICE THAT THE MAINTENANCE AND PROTECTION OF TRAFFIC IS CONSIDERED AS IMPORTANT AND NECESSARY AS THE ACTUAL INSTALLATION ITSELF. THE CONTRACTOR AT ALL TIMES SHALL CONDUCT THEIR OPERATION IN SUCH A MANNER AS TO ENSURE THE SAFETY OF THE MOTORISTS, THE PEDESTRIANS, AND WORK FORCE.
9. IF THE CONTRACTOR FAILS OVER A PERIOD OF TWENTY-FOUR (24) HOURS TO PERFORM ADEQUATE MAINTENANCE AND PROTECTION OF TRAFFIC, THE COUNTY'S PROJECT MANAGER MAY ORDER THE CORRECTION OF THE ADVERSE CONDITIONS, AT THE CONTRACTORS EXPENSE, BY ANOTHER AGENCY OR ENTITY.
10. NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE OF ANY LANE CLOSURES. DURING PERIODS OF LANE CLOSURES, THE CONTRACTOR SHALL PROVIDE A DEDICATED CREW FOR THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE TRAFFIC CONTROL DEVICES (I.E. BARRICADES, SIGNS, ARROW BOARDS ETC.). THIS CREW SHALL CONSIST OF AT LEAST THREE MEMBERS OF THE CONTRACTOR'S WORK FORCE WHOSE SOLE RESPONSIBILITY SHALL BE THE MAINTENANCE OF TRAFFIC CONTROL. THE CONTRACTOR SHALL FURNISH A WORK VEHICLE TO AID IN MAINTAINING THE CONTROL DEVICES.

MANAGEMENT OF THE WORK AREA (APPLICABLE TO ALL PHASES)

1. THE OVERALL GOAL OF THIS TRAFFIC CONTROL PLAN IS TO ROUTE TRAFFIC THROUGH THE WORK AREA IN A MANNER AS SIMILAR AS POSSIBLE TO CURRENT OPERATIONS PRIOR TO THIS CONSTRUCTION PROJECT.
2. DO NOT CLOSE MORE THAN ONE CONSECUTIVE CROSSROAD AT A TIME UNLESS OTHERWISE NOTED IN THE TRAFFIC CONTROL CURRENT OPERATIONS PRIOR TO THIS CONSTRUCTION PROJECT.
3. CONTACT ESCAMBIA COUNTY FOR THE RESPONSIBILITY OF MAINTAINING THE POSITION AND CONDITION OF ALL ELECTRICALLY POWERED TRAFFIC CONTROL DEVICES.
4. IMMEDIATELY INFORM THE ENGINEER WHEN IDENTIFYING ANY ERRORS OR OMISSIONS IN THE TTCP OR MAKING ANY MODIFICATION OR CHANGE TO THIS TTCP TO OBTAIN APPROVAL BY THE ENGINEER PRIOR TO WORK COMMENCING OR BEING RESUMED THAT IS AFFECTED BY ERRORS AND OMISSIONS.
5. INFORM THE ENGINEER OF ANY HAZARDS WITHIN THE WORK AREA NOT ADDRESSED BY THE TTCP AND ANY POTENTIAL IMPROVEMENTS TO PROPOSED OR IMPLEMENTED PHASES OF THE TTCP PLANS.
6. PRIOR TO THE IMPLEMENTATION OF ANY PHASE CHANGE FROM THE TTCP, THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE SHALL REVIEW. THIS REVIEW IS FOR ALL PARTIES TO OBTAIN A CLEAR UNDERSTANDING OF HOW TO TRANSITION INTO THE NEXT PHASE AND THE REQUIREMENTS OF THAT PHASE.
7. CONTACT AND DOCUMENT DAILY REVIEWS AND WEEKLY NIGHTTIME REVIEWS OF THE IMPLEMENTED PHASES OF THE TTCP. DAILY NIGHTTIME REVIEWS SHALL BE CONDUCTED WHENEVER NIGHTTIME WORK IS OCCURRING.
8. MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES UNLESS OTHERWISE APPROVED BY COUNTY ENGINEER OFFICE.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS		 GREGORY A. STEVANUS JR. P.E. LICENSE NUMBER 96562 HDR ENGINEERING, INC. 25 WEST CEDAR STREET, SUITE 200 PENSACOLA, FL 32502-5945	 ESCAMBIA COUNTY ENGINEERING DEPARTMENT US 29 / PENSACOLA BLVD AND SR 727/295 FAIRFIELD DR FIBER OPTIC IMPROVEMENTS	TEMPORARY TRAFFIC CONTROL PLAN	SHEET NO.
DATE	DESCRIPTION				IT-89