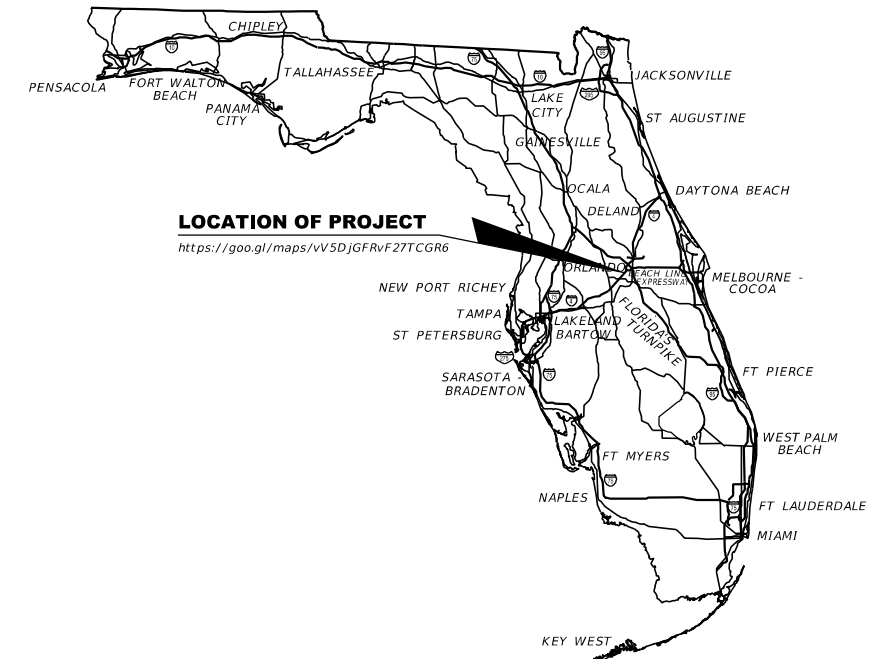


STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 441113-1-52-01
(FEDERAL FUNDS)
ORANGE COUNTY (75280)
STATE ROAD NO. 400 (I-4)



INDEX OF INTELLIGENT TRANSPORTATION SYSTEMS PLANS

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IT-41 - IT-45	SPLICING DIAGRAMS
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90% (PHASE III)

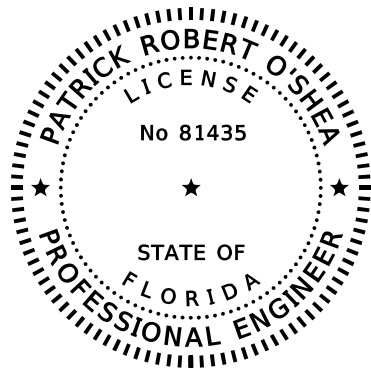
INTELLIGENT TRANSPORTATION SYSTEMS PLANS
ENGINEER OF RECORD:

PATRICK ROBERT O'SHEA, P.E.
P.E. NO.: 81435
AECOM Technical Services, Inc.
150 North Orange Avenue, Suite 200
Orlando, FL. 32801
T 407.843.6552 F 407.839.1789
Certificate of Authorization No. 8115

FDOT PROJECT MANAGER:
SU HAO, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	21	IT-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.
PRELIMINARY: NOT FOR CONSTRUCTION



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY



ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

AECOM Technical Services, Inc.
150 NORTH ORANGE AVENUE, SUITE 200
ORLANDO, FL 33801
CERTIFICATE OF AUTHORIZATION: 8115
PATRICK ROBERT O'SHEA, P.E. NO. 81435

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

INTELLIGENT TRANSPORTATION SYSTEMS PLANS

SHEET NO.	SHEET DESCRIPTION
IT-1	KEY SHEET
IT-2	SIGNATURE SHEET
IT-3 - IT-4	TABULATION OF QUANTITIES
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IT-36	CONCRETE APRON DETAIL
IT-37	ROUTE MARKER DETAIL
IT-38 - IT-39	CABINET DETAILS
IT-40	WIRING DIAGRAM
IT-41 - IT-45	SPLICING DIAGRAMS
IT-46	ITS CROSS SECTION

NOTES TO REVIEWERS

1. SPLICING DIAGRAMS WILL BE UPDATED UPON FINAL COORDINATION WITH THE
FDOT.
2. ELECTRICAL POWER SOURCE COORDINATION WITH THE POWER COMPANY HAS
BEEN INITIATED AND WILL BE INDICATED IN THE PLANS WHEN DIRECTION
IS PROVIDED.

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-2
					SR 400	ORANGE	441113-1-52-01		

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			IT-11		IT-12		IT-13		IT-14		IT-15		IT-16		IT-17		IT-18		IT-19		IT-20		PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
630-2-11	CONDUITS, FURNISH & INSTALL, OPEN TRENCH	LF			1155		1415		1403		1300		2800		2563		1342		1585		1800		15363				
630-2-12	CONDUITS, FURNISH & INSTALL, DIRECTIONAL BORE	LF									230				247		458		1120		1000		3055				
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 12 MM	LF			830												50		975				1855				
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 72 SM	LF			775		1465		1603		1930		2800		3060		2000		2355		2900		18888				
633-2-31	FIBER OPTIC CONN, INSTALL, SPLICE	EA			72				4		76												152				
633-3-11	FIBER OPTIC CONN HARDWARE, F&I, SPLICE ENCLOSURE	EA			1						1												2				
633-3-12	FIBER OPTIC CONN HARDWARE, F&I, SPLICE TRAY	EA			6						6												12				
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA																					0				
633-3-51	FIBER OPTIC CONN HARDWARE, ADJUST/MODIFY, SPLICE ENCLOSURE	EA			1				1		1												3				
633-3-52	FIBER OPTIC CONN HARDWARE, ADJUST/MODIFY, SPLICE TRAY	EA			1				1		3												5				
633-3-55	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY PATCH PANEL, PRETERMINATED	EA																					0				
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA																					0				
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA			1		1								1		5		4		2		14				
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR	EA			1										1								2				
639-2-1	ELECTRICAL SERVICE WIRE, F&I	EA																					0				
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																					0				
641-2-14	PRESTRESSED CONCRETE POLE, F&I, TYPE P-IV	EA																					0				
660-3-41	VEHICLE DETECTION SYSTEM- MICROWAVE, RELOCATE CABINET EQUIPMENT	EA																					0				
660-3-42	VEHICLE DETECTION SYSTEM - MICROWAVE, RELOCATE, ABOVE GROUND EQUIPMENT	EA																					0				
676-2-400	ITS CABINET, RELOCATE	EA																					0				
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA																					0				
682-1-400	ITS CCTV CAMERA, RELOCATE	EA																					0				
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA																					0				
684-1-4	MANAGED FIELD ETHERNET SWITCH, RELOCATE	EA																					0				
684-2-4	DEVICE SERVER, RELOCATE	EA																					0				

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<h2 style="margin: 0;">TABULATION OF QUANTITIES</h2>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-3
					SR 400	ORANGE	441113-1-52-01		

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

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			IT-21		IT-22		IT-23		IT-24		IT-25		IT-26		IT-27												
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
630-2-11	CONDUITS, FURNISH & INSTALL, OPEN TRENCH	LF	994		740				1205		375													3314		18677	
630-2-12	CONDUITS, FURNISH & INSTALL, DIRECTIONAL BORE	LF	793						930		541													2264		5319	
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 12 MM	LF							1745		620													2365		4220	
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 72 SM	LF	2087		940				1605		111													4743		23631	
633-2-31	FIBER OPTIC CONN, INSTALL, SPLICE	EA	72		72				12															156		308	
633-3-11	FIBER OPTIC CONN HARDWARE, F&I, SPLICE ENCLOSURE	EA	1		1				1															3		5	
633-3-12	FIBER OPTIC CONN HARDWARE, F&I, SPLICE TRAY	EA	6		6				3															15		27	
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA							2		1													3		3	
633-3-51	FIBER OPTIC CONN HARDWARE, ADJUST/MODIFY, SPLICE ENCLOSURE	EA																						0		3	
633-3-52	FIBER OPTIC CONN HARDWARE, ADJUST/MODIFY, SPLICE TRAY	EA																						0		5	
633-3-55	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY PATCH PANEL, PRETERMINATED	EA													12									12		12	
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA							1															1		1	
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	2						5		2													9		23	
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR	EA			1				1															2		4	
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF							20															20		20	
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA							1															1		1	
641-2-14	PRESTRESSED CONCRETE POLE, F&I, TYPE P-IV	EA							1															1		1	
660-3-41	VEHICLE DETECTION SYSTEM- MICROWAVE, RELOCATE CABINET EQUIPMENT	EA							1															1		1	
660-3-42	VEHICLE DETECTION SYSTEM - MICROWAVE, RELOCATE, ABOVE GROUND EQUIPMENT	EA							1															1		1	
676-2-400	ITS CABINET, RELOCATE	EA							1															1		1	
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA							1		1													2		2	
682-1-400	ITS CCTV CAMERA, RELOCATE	EA							1															1		1	
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA							1		1													2		2	
684-1-4	MANAGED FIELD ETHERNET SWITCH, RELOCATE	EA							1															1		1	
684-2-4	DEVICE SERVER, RELOCATE	EA							1															1		1	

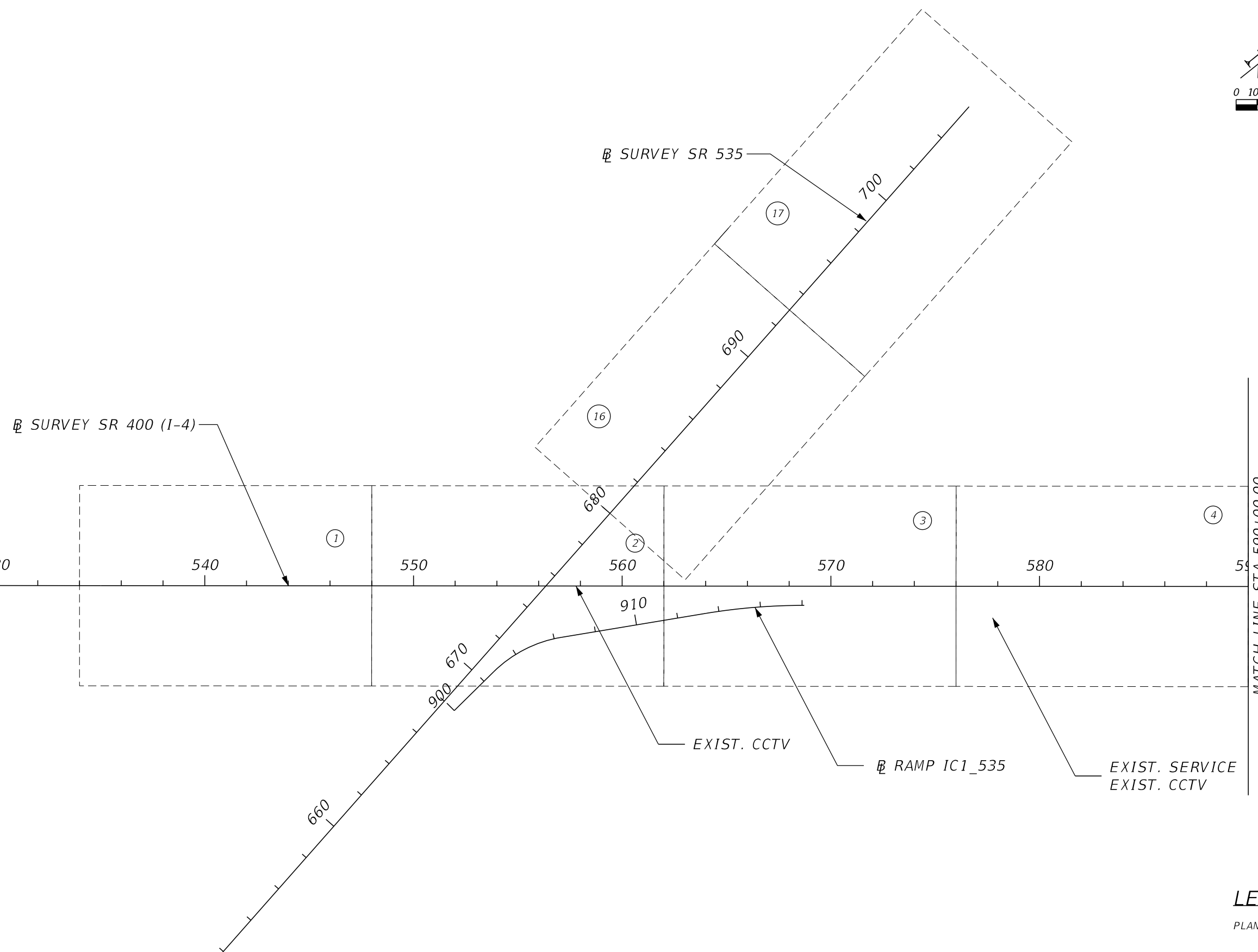
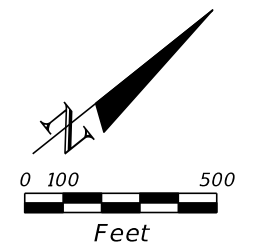
REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES	SHEET NO. IT-4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

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

DEVICE	STATION	PLAN SHEET	POLE CENTER OFFSET	POLE LENGTH (FT)	POLE EMBEDMENT DEPTH (FT)	EXPOSED POLE LENGTH (FT)	POLE ELEV. (FT)	CCTV MOUNTING HEIGHT (FT)	MVDS MOUNTING HEIGHT
CCTV 400-69.7, MVDS 400-69.7	644+16	IT-24	142' RT	----	----	50'	132.1	49'	39'
CCTV DCP-1	108+55	IT-24	42' LT						
CCTV DCP-2	115+20	IT-25	38' LT						

NOTE:
CCTV DCP-1 AND CCTV DCP-2 ARE TO BE MOUNTED ON PROPOSED SIGNAL POLE MAST ARMS. REFER TO MAST ARM TABULATION SHEET IN SIGNALIZATION PLANS FOR CCTV LOCATIONS.

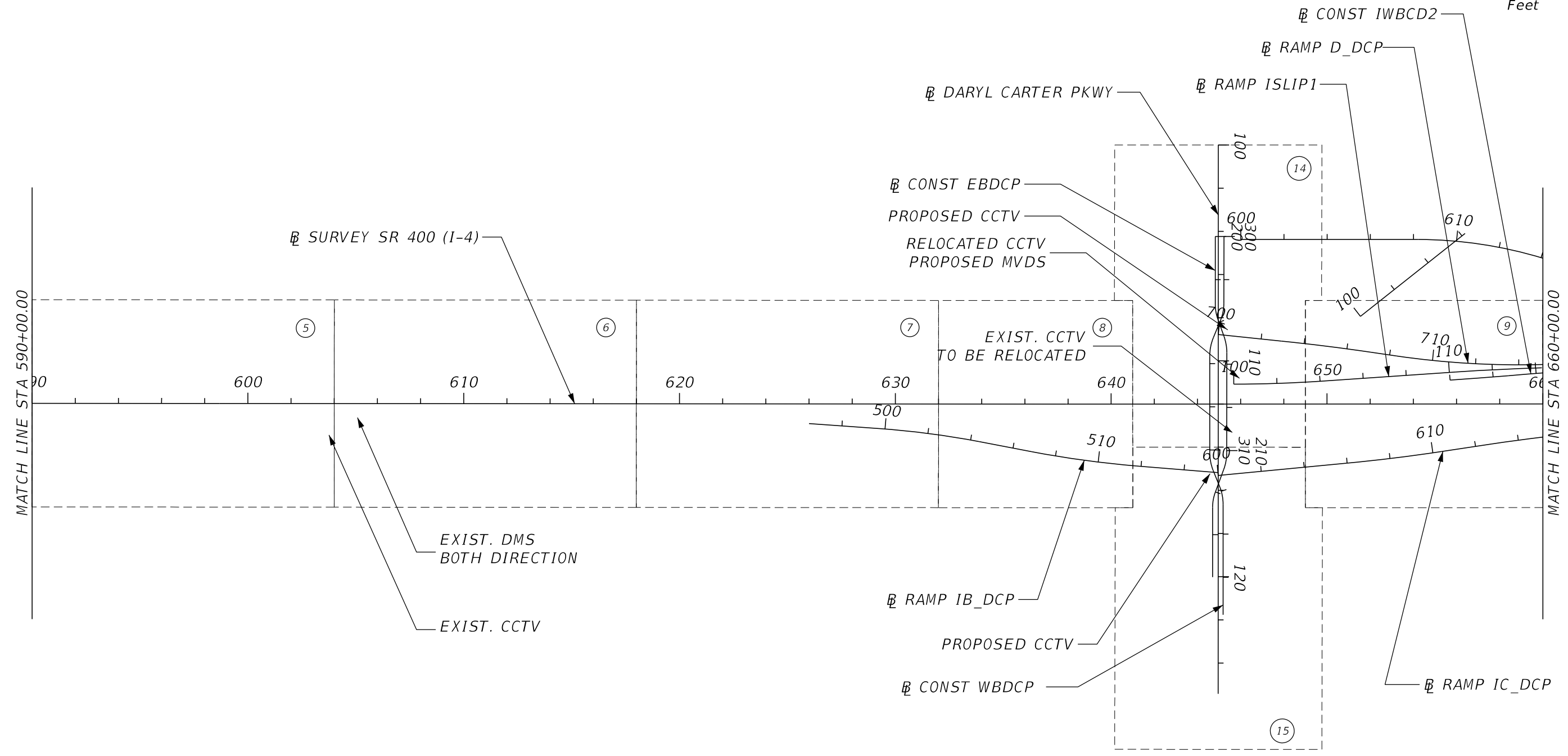
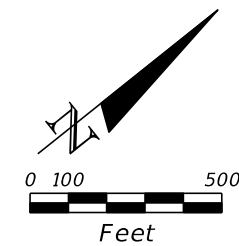
REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POLE DATA SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-5
					SR 400	ORANGE	441113-1-52-01		



LEGEND
 PLAN SHEET NO. (X)

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT (1)	SHEET NO. IT-6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		441113-1-52-01

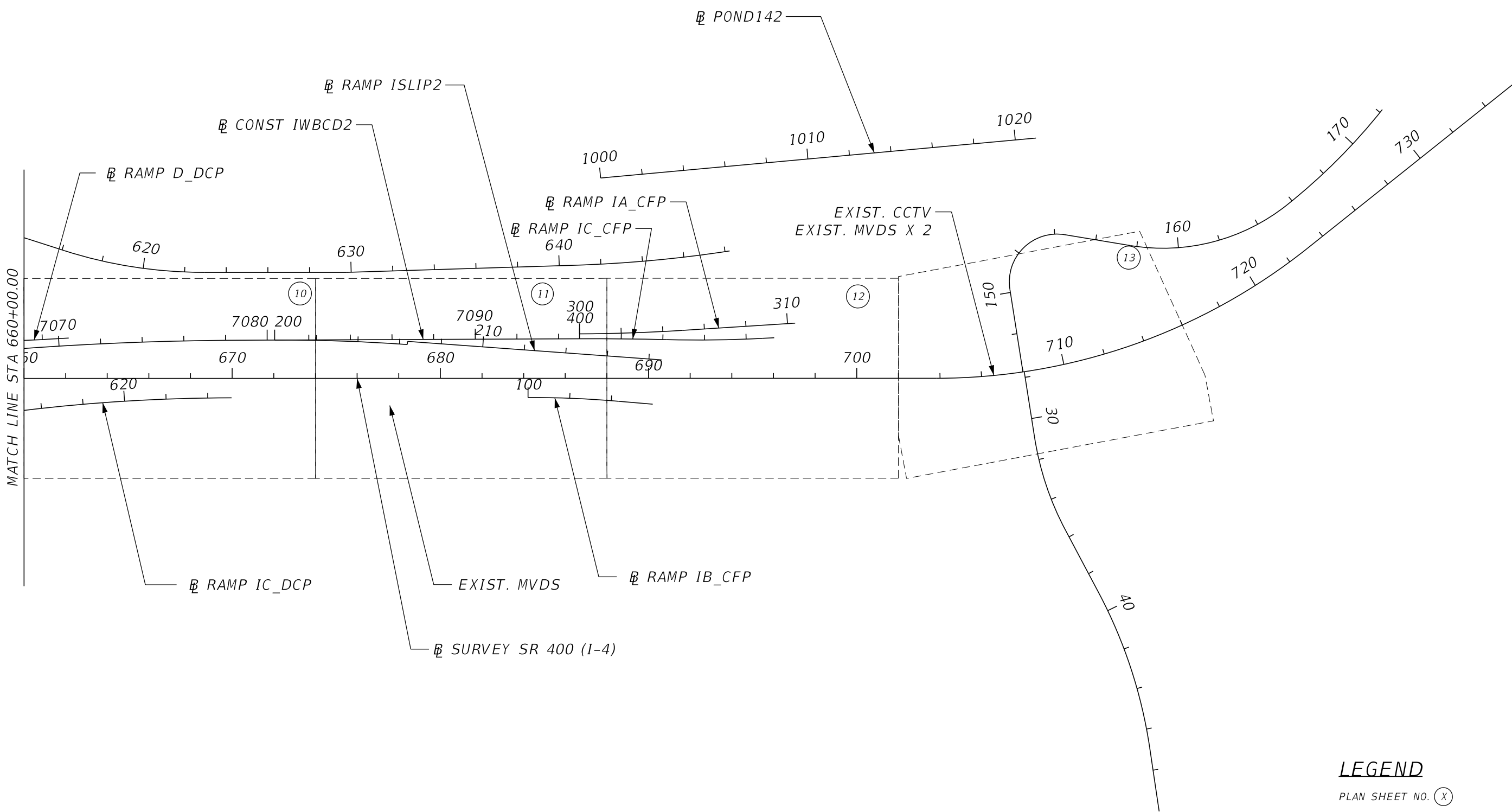
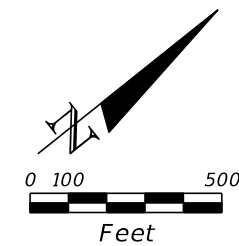
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LEGEND
PLAN SHEET NO. (X)

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT (2)	SHEET NO. IT-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		441113-1-52-01

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LEGEND
 PLAN SHEET NO. (X)

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT (3)	SHEET NO. IT-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		441113-1-52-01

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

GENERAL:

1. THE CONTRACTOR SHALL INFORM CENTURYLINK 90 DAYS PRIOR TO THE END OF CONSTRUCTION ACTIVITIES AND TESTING.

CONDUIT:

1. HDPE CONDUIT COLOR CODES:

-BACKBONE (4-1.25"):

1. ORANGE (FIBER & COMPOSITE IF REQUIRED)
2. ORANGE W/ WHITE STRIPE (TONE WIRE)
3. ORANGE (SPARE WIRE)
4. ORANGE (SPARE WIRE)

-DROP CABLE (2-1.25"):

1. ORANGE (FIBER & COMPOSITE IF REQUIRED)
2. ORANGE W/ WHITE STRIPE (TONE WIRE)

-POWER (1.25" OR LARGER) (SEE PLAN SHEETS SIZE & NUMBER MAY VARY):

1. RED
2. RED W/ WHITE STRIPE (SPARE)

PULL BOXES:

1. ALL PULL AND SPLICE BOXES TO BE INSTALLED ADJACENT TO ITS POLES ON A SLOPE SHALL BE INSTALLED ON THE SIDE OF THE POLE WITH THE HIGHEST SLOPE.

PAY ITEM NOTES:

1. 633-3-15 SHALL INCLUDE A FIBER CABLE LONG ENOUGH TO TRANSITION FROM THE PATCH PANEL TO THE SPLICE VAULT INCLUDING 50 LF OF COILED SLACK IN ALL PULL BOXES AND SPLICE VAULTS; THE DROP CABLE FIBER IS PAID FOR SEPERATELY BUT MUST BE CONTINUOUS. THIS PAY ITEM ALSO INCLUDES FIBER OPTIC CABLE JUMPERS AS REQUIRED BY THE PLANS, EQUIPMENT, AND PATCH PANELS INSTALLED. THE CABLES SHALL BE SIZED TO LENGTH (3' MINIMUM). ALL FIBER CONNECTIONS SHALL UTILIZE SC CONNECTORS.
3. 641-2-14 SHALL INCLUDE THE FURNISHING AND INSTALLATION OF MAINTENANCE CONCRETE APRONS AS SHOWN IN THE PLANS.

UTILITY NOTES:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED WITH THE UTILITY ADJUSTMENT PLAN SET.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING FDOT OWNED UTILITIES AND FACILITIES INCLUDING BUT NOT LIMITED TO UNDERGROUND LIGHTING AND DRAINAGE STRUCTURES PRIOR TO DIGGING.

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-9
					SR 400	ORANGE	441113-1-52-01		

ABBREVIATIONS:

AVI = AUTOMATIC VEHICLE IDENTIFICATION	HDPE = HIGH DENSITY POLYETHYLENE CONDUIT
BB = BACKBONE	INSP = INSPECTION
CAB = CABINET	L/A = LIMITED ACCESS
CCTV = CLOSED CIRCUIT TELEVISION	LHUB = LOCAL HUB
CLD = CAMERA LOWERING DEVICE	LOC = LOCATE
COAX = COAXIAL	LOW = LOWERING
COMM = COMMUNICATIONS	MFS = MANAGED FIELD SWITCH
CONN = CONNECTION	MKR = MARKER
DIRECT. = DIRECTIONAL	MVDS = MICROWAVE VEHICLE DETECTION SYSTEM
DISC = DISCONNECT	NB = NORTHBOUND
DMS = DYNAMIC MESSAGE SIGN	PRETERM = PRE-TERMINATED
EDMS = EMBEDDED DMS	RGS = RIGID GALVANIZED STEEL
EJB = ELECTRICAL JUNCTION BOX (EMBEDDED)	RU = RACK UNIT
ELEC = ELECTRICAL	RWIS = ROAD WEATHER INFORMATION SYSTEMS
ENCLOS = ENCLOSURE	SB = SOUTHBOUND
EOTL = EDGE OF TRAVEL LANE	SD TXFMR = STEP DOWN TRANSFORMER
EPB = ELECTRICAL PULL BOX	SERV = SERVICE
EQUIP = EQUIPMENT	SPD = SURGE PROTECTION DEVICE
ESP = ELECTRICAL SERVICE POINT	STL = STEEL
E/W = EQUIPPED WITH	STR = STRAND
EXIST. = EXISTING	STRUC = STRUCTURE
FJB = FIBER JUNCTION BOX (EMBEDDED)	SV = SPLICE VAULT
FO = FIBER OPTIC	S. WARE = SOFTWARE
FOC = FIBER OPTIC CABLE	TTS = TRAVEL TIME SYSTEM
FOE = FIBER OPTIC & ELECTRICAL CABLE	RFID TTS = RADIO FREQUENCY IDENTIFICATION TRAVEL TIME SYSTEM
FPB = FIBER PULL BOX	BT TTS = BLUETOOTH TRAVEL TIME SYSTEM
FTE = FLORIDA'S TURNPIKE ENTERPRISE	TYP = TYPICAL
GND = GROUND	U. GROUND = UNDERGROUND
GND MT = GROUND MOUNT	V-CCTV = VALIDATION CCTV CAMERA
HARB = HAR BEACON	VDS = VEHICLE DETECTION SYSTEM
HARD = HARDWARE	VID = VIDEO
HAR = HIGHWAY ADVISORY RADIO	
HD = HIGH DEFINITION	

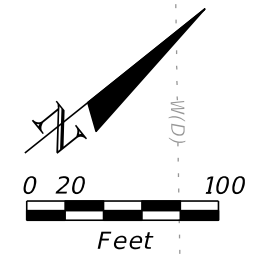
SYMBOLS:

PROPOSED	EXISTING	DESCRIPTION
		CCTV
		MVDS
		MVDS DETECTION ZONES
		CANTILEVER STRUCTURE SPAN STRUCTURE
		ELECTRICAL PULL BOX
		FIBER OPTIC PULL BOX
		FIBER OPTIC SPLICE VAULT
		CABINET
		CABINET (GROUND MOUNTED)
		POLE
		CCTV CONCRETE POLE
		EXISTING UNDERGROUND CONDUIT
		PROPOSED TRENCH
		PROPOSED DIRECTIONAL BORE
		EXISTING FENCE
		DMS

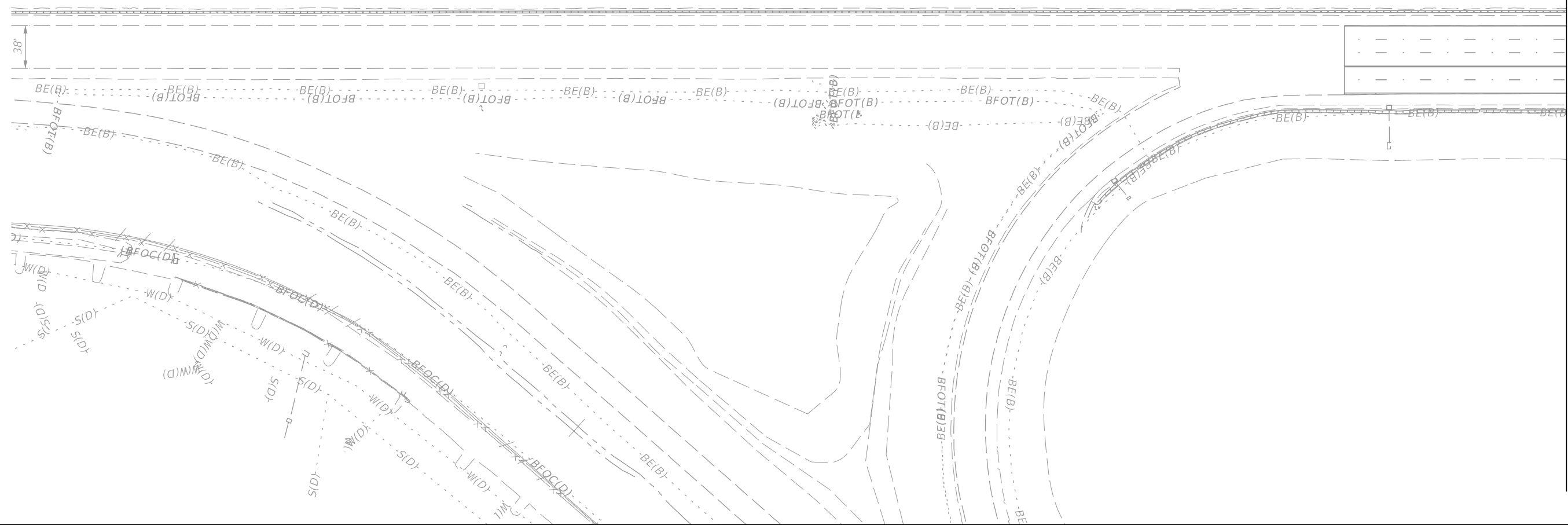
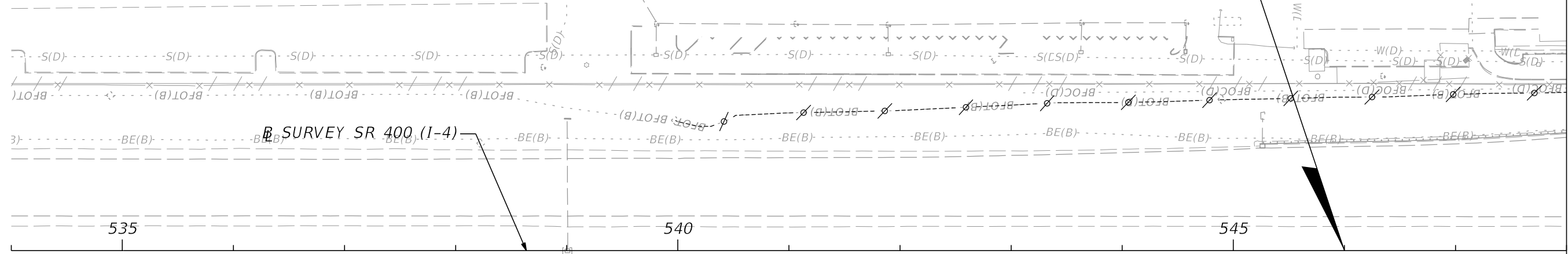
*NOTE: EXISTING FEATURES TO REMAIN, UNLESS OTHERWISE NOTED ON PLAN SHEET

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-10
					SR 400	ORANGE	441113-1-52-01		

PLEASE NOTE
 NO WORK TO BE COMPLETED ON THIS SHEET.
 THIS SHEET IS FOR REFERNECE ONLY.



BEGIN PROJECT 441113-1-52-01
 BEGIN CONSTRUCTION 441113-1-52-01
 SURVEY SR 400 (I-4) STA 546+00.00



MATCH LINE SR 400 (I-4) STA 548+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

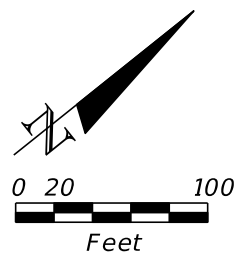
AECOM Technical Services, Inc.
 150 North Orange Avenue, Suite 200
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 C.A. No. 8115
 Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 1

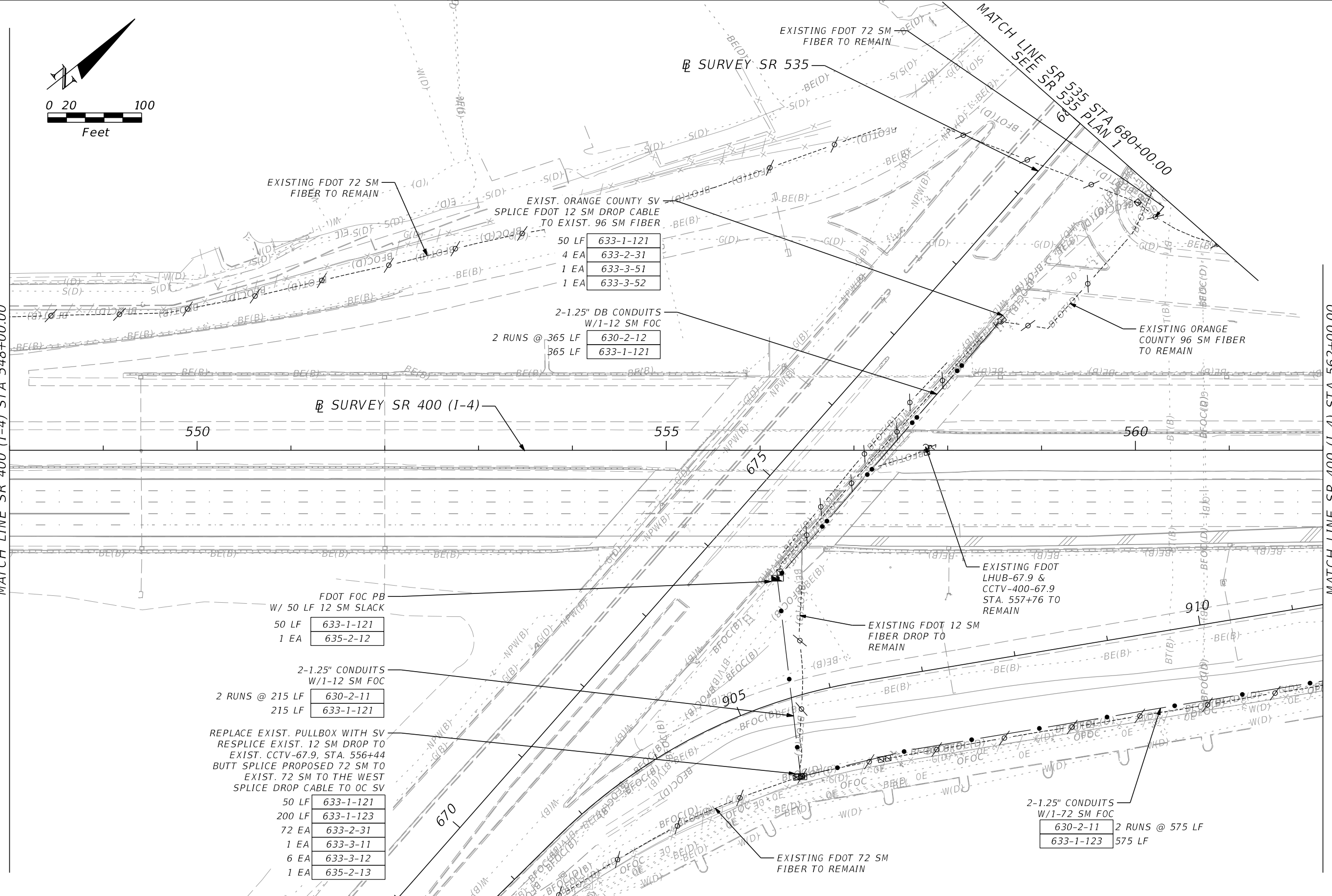
SHEET NO.
IT-11

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



MATCH LINE SR 400 (I-4) STA 548+00.00

MATCH LINE SR 400 (I-4) STA 562+00.00



50 LF	633-1-121
4 EA	633-2-31
1 EA	633-3-51
1 EA	633-3-52

2-1.25" DB CONDUITS
W/1-12 SM FOC

2 RUNS @ 365 LF	630-2-12
365 LF	633-1-121

FDOT FOC PB
W/ 50 LF 12 SM SLACK

50 LF	633-1-121
1 EA	635-2-12

2-1.25" CONDUITS
W/1-12 SM FOC

2 RUNS @ 215 LF	630-2-11
215 LF	633-1-121

REPLACE EXIST. PULLBOX WITH SV
RESPLICE EXIST. 12 SM DROP TO
EXIST. CCTV-67.9, STA. 556+44
BUTT SPLICE PROPOSED 72 SM TO
EXIST. 72 SM TO THE WEST
SPLICE DROP CABLE TO OC SV

50 LF	633-1-121
200 LF	633-1-123
72 EA	633-2-31
1 EA	633-3-11
6 EA	633-3-12
1 EA	635-2-13

2-1.25" CONDUITS
W/1-72 SM FOC

630-2-11	2 RUNS @ 575 LF
633-1-123	575 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

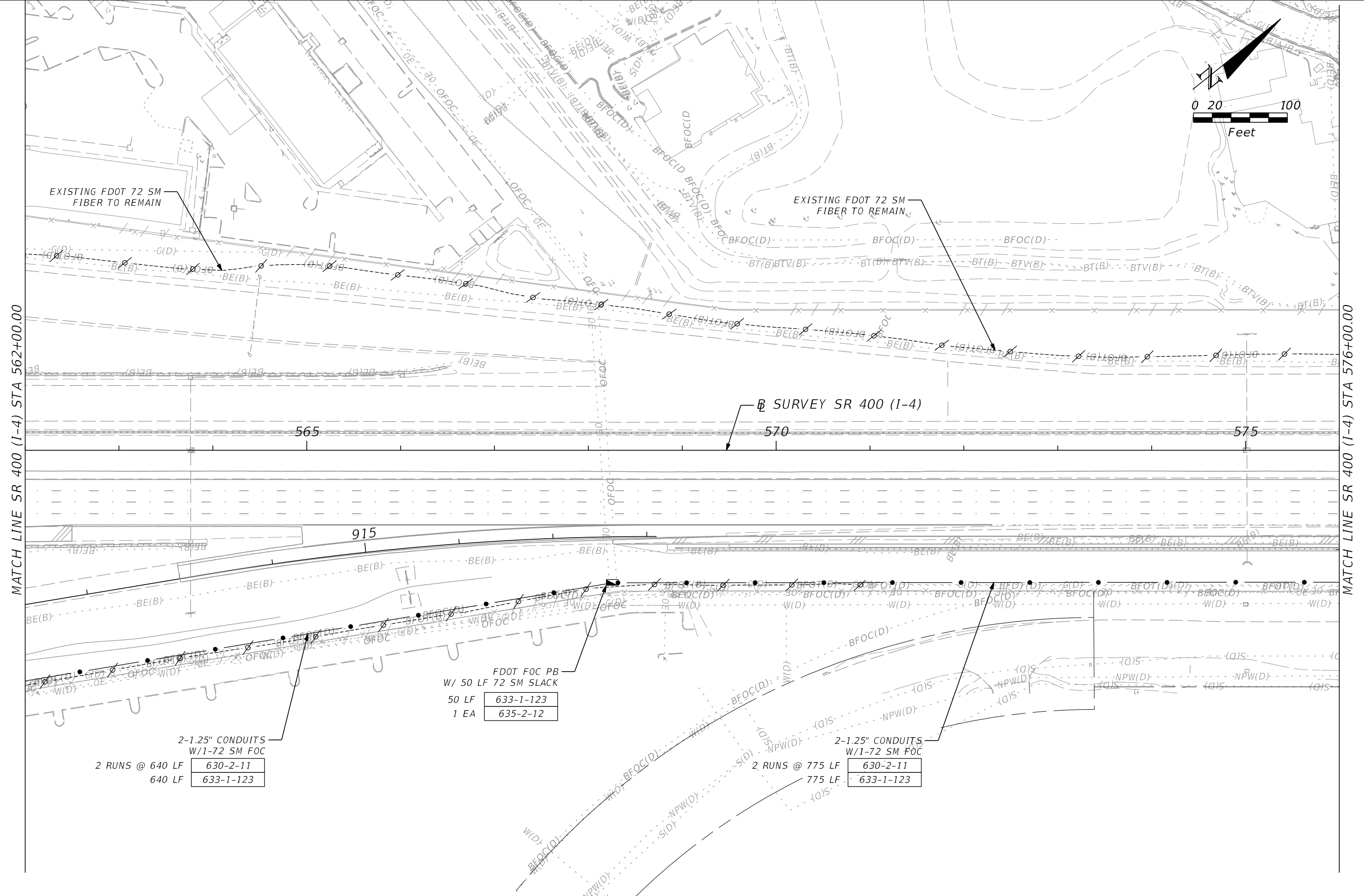
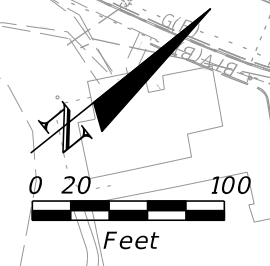
AECOM Technical Services, Inc.
150 North Orange Avenue, Suite 200
Orlando, FL 32801
C.A. No. 8115
Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 2

SHEET NO.
IT-12

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



MATCH LINE SR 400 (I-4) STA 562+00.00

MATCH LINE SR 400 (I-4) STA 576+00.00

2-1.25" CONDUITS
W/1-72 SM FOC

2 RUNS @ 640 LF	630-2-11
640 LF	633-1-123

FDOT FOC PB
W/ 50 LF 72 SM SLACK

50 LF	633-1-123
1 EA	635-2-12

2-1.25" CONDUITS
W/1-72 SM FOC

2 RUNS @ 775 LF	630-2-11
775 LF	633-1-123

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

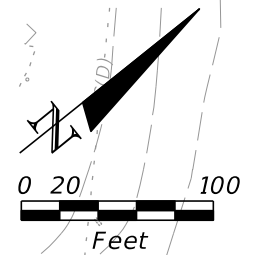
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 3

SHEET NO.
IT-13

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



MATCH LINE SR 400 (I-4) STA 576+00.00

MATCH LINE SR 400 (I-4) STA 590+00.00

EXISTING FDOT 72 SM FIBER TO REMAIN

⊕ SURVEY SR 400 (I-4)

580

585

590

2-1.25" CONDUITS
W/1-72 SM FOC

630-2-11	2 RUNS @ 173 LF
633-1-123	173 LF

EXISTING
CCTV-400-68.3 AND
LOCAL HUB-400-68.3
TO REMAIN

EXIST FDOT SV-400-68.3
STA. 577+70
RESPLICE EXISTING DROP CABLE

633-1-123	200 LF
633-2-31	4 EA
633-3-51	1 EA
633-3-52	1 EA

2-1.25" CONDUITS
W/1-72 SM FOC

630-2-11	2 RUNS @ 1230 LF
633-1-123	1230 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

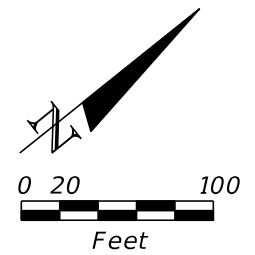
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Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 4

SHEET NO.
IT-14

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



MATCH LINE SR 400 (I-4) STA 590+00.00

MATCH LINE SR 400 (I-4) STA 604+00.00

EXISTING FDOT 72 SM FIBER TO REMAIN

EXIST FDOT SV-400-68.8-WB
STA. 602+82
RESPLICE EXISTING BUTT
SPlice TO PROPOSED 72 SM
TO THE EAST

100 LF	633-1-123
72 EA	633-2-31
1 EA	633-3-11
6 EA	633-3-12

4-1.25" CONDUITS
W/1-72 SM FOC

4 RUNS @ 125 LF	630-2-11
125 LF	633-1-123

⊕ SURVEY SR 400 (I-4)

595

600

2-1.25" DB CONDUITS
W/1-72 SM FOC

2 RUNS @ 230 LF	630-2-12
230 LF	633-1-123

2-1.25" CONDUITS
W/1-72 SM FOC

630-2-11	2 RUNS @ 1135 LF
633-1-123	1135 LF

EXIST FDOT SV-400-68.8-EB
STA. 603+60
RESPLICE EXISTING DROP CABLE

200 LF	633-1-123
4 EA	633-2-31
1 EA	633-3-51
3 EA	633-3-52

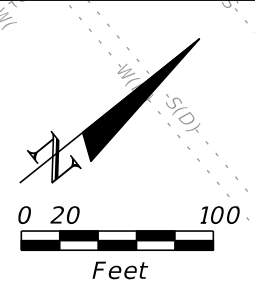
EXISTING
CCTV-400-68.8 AND
LOCAL HUB -400-68.8
TO REMAIN

2-1.25" DB CONDUITS
W/1-72 SM FOC

2 RUNS @ 40 LF	630-2-11
40 LF	633-1-123

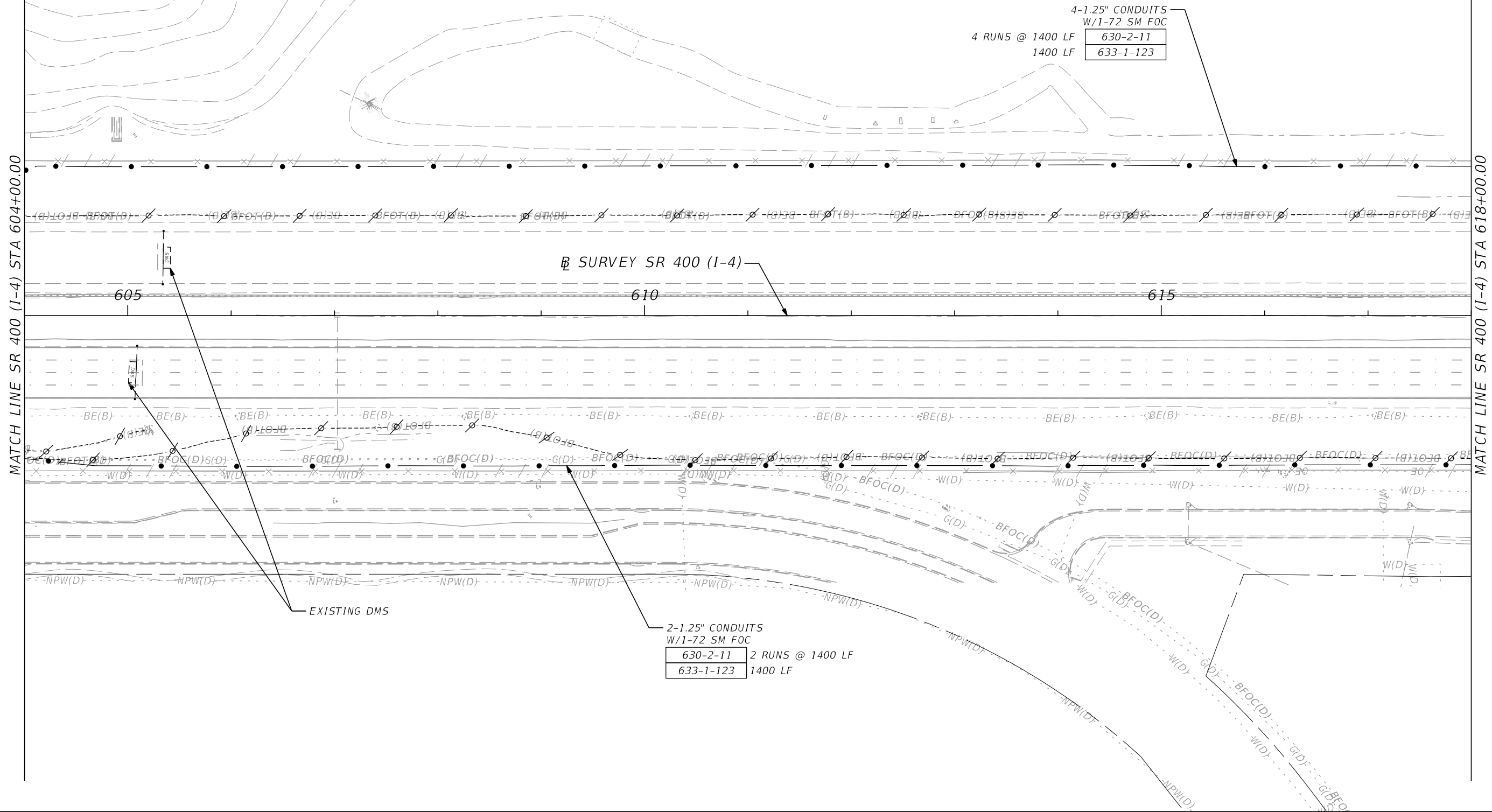
REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 400 (I-4) - PLAN 5	SHEET NO. IT-15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

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



MATCH LINE SR 400 (I-4) STA 604+00.00

MATCH LINE SR 400 (I-4) STA 618+00.00



2-1.25" CONDUITS
W/1-72 SM FOC

630-2-11	2 RUNS @ 1400 LF
633-1-123	1400 LF

4-1.25" CONDUITS
W/1-72 SM FOC

630-2-11	4 RUNS @ 1400 LF
633-1-123	1400 LF

⊕ SURVEY SR 400 (I-4)

EXISTING DMS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

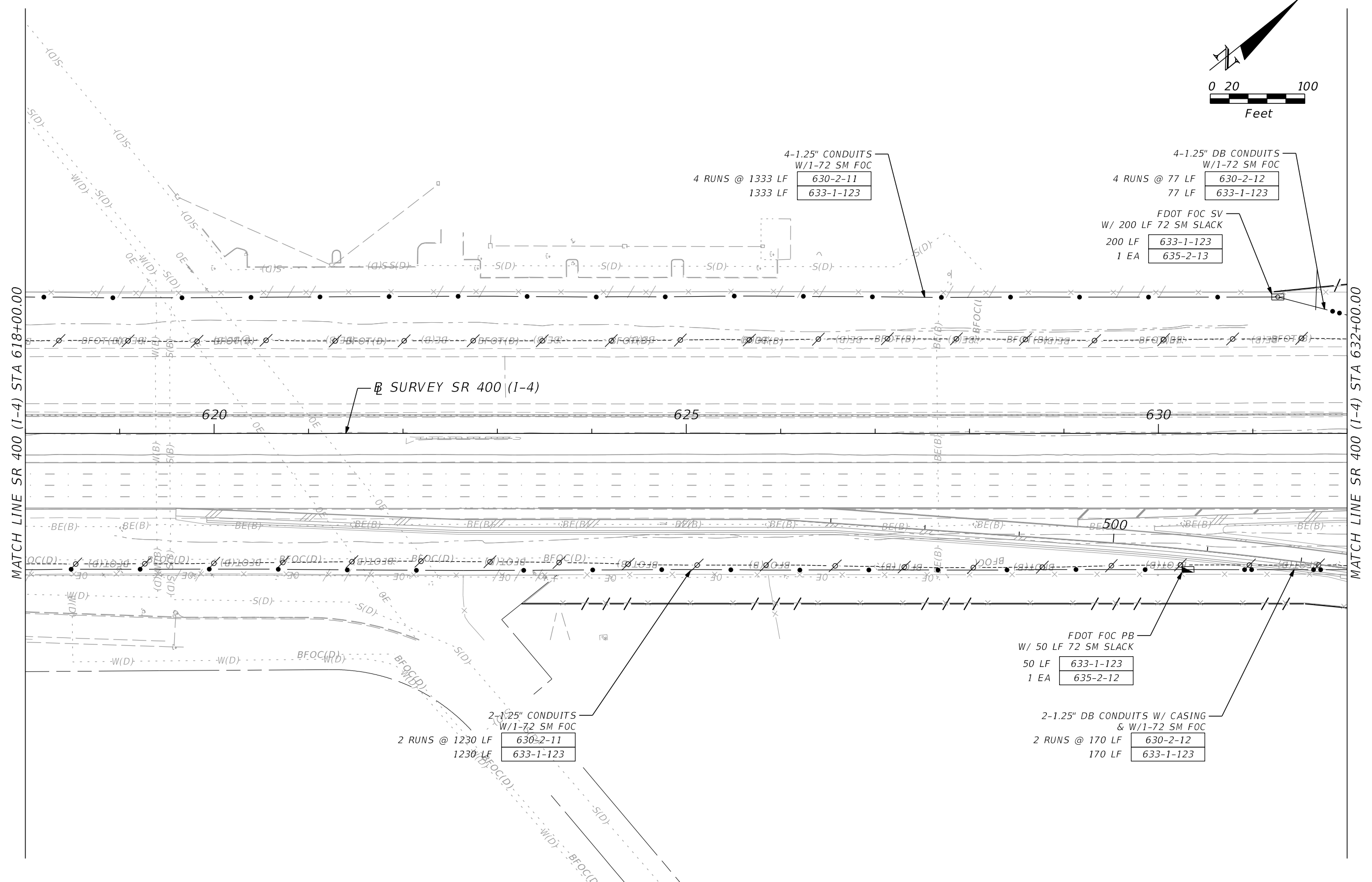
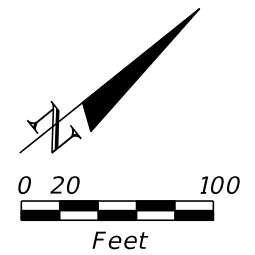
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Orlando, FL 32801
C.A. No. 8115
Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 6

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.



4-1.25" CONDUITS
W/1-72 SM FOC
4 RUNS @ 1333 LF 630-2-11
1333 LF 633-1-123

4-1.25" DB CONDUITS
W/1-72 SM FOC
4 RUNS @ 77 LF 630-2-12
77 LF 633-1-123

FDOT FOC SV
W/ 200 LF 72 SM SLACK
200 LF 633-1-123
1 EA 635-2-13

2-1.25" CONDUITS
W/1-72 SM FOC
2 RUNS @ 1230 LF 630-2-11
1230 LF 633-1-123

FDOT FOC PB
W/ 50 LF 72 SM SLACK
50 LF 633-1-123
1 EA 635-2-12

2-1.25" DB CONDUITS W/ CASING
& W/1-72 SM FOC
2 RUNS @ 170 LF 630-2-12
170 LF 633-1-123

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

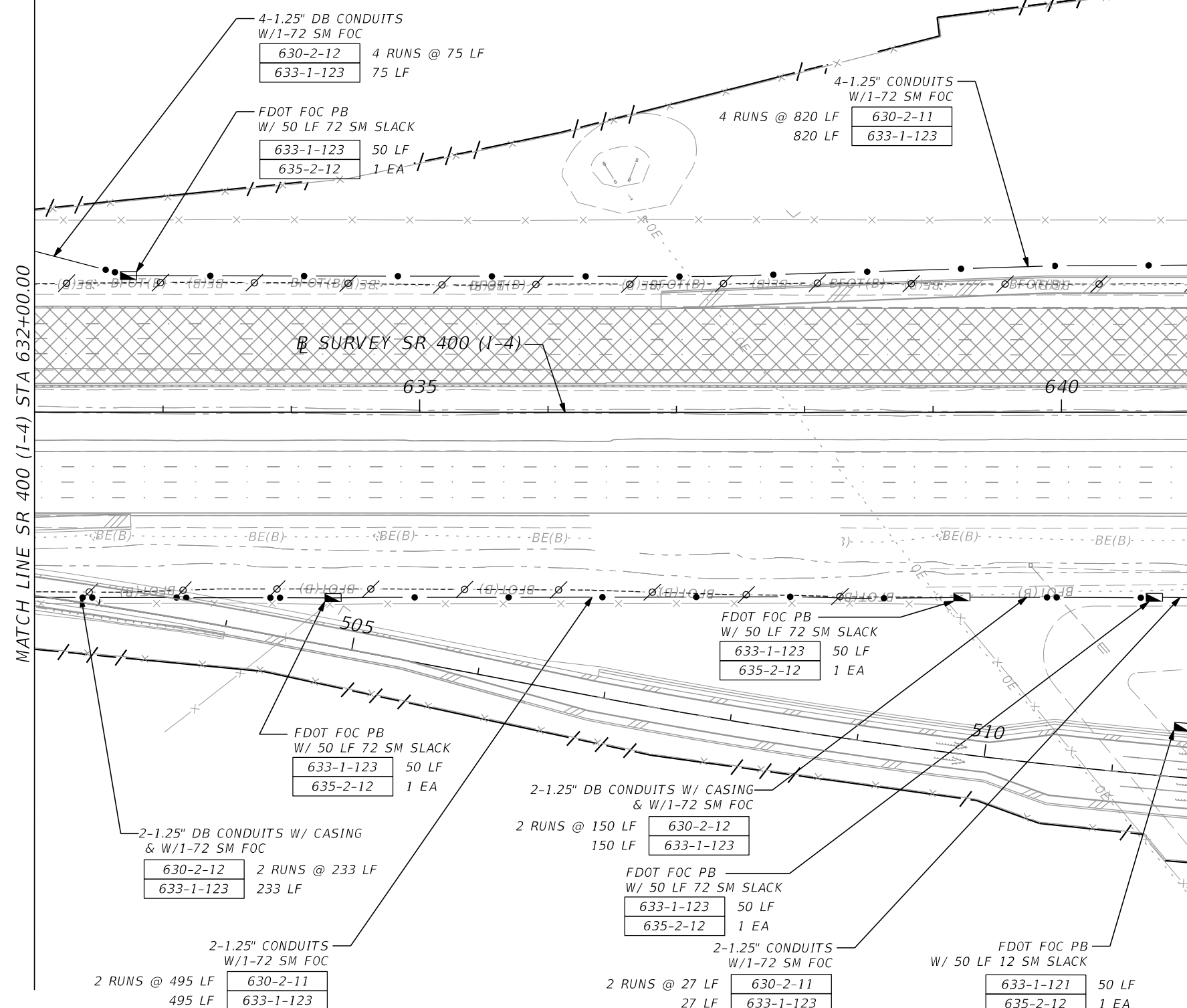
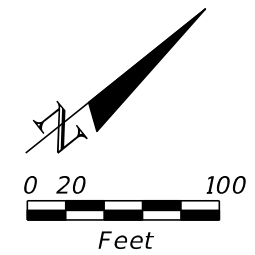
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Orlando, FL 32801
C.A. No. 8115
Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 7

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.



MATCH LINE SR 400 (I-4) STA 632+00.00

MATCH LINE SR 400 (I-4) STA 641+00.00
SEE DARYL CARTER PKWY - PLAN 1

MATCH LINE RAMP JB_DCP
STA 511+61.14
SEE DARYL CARTER PKWY - PLAN 2

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

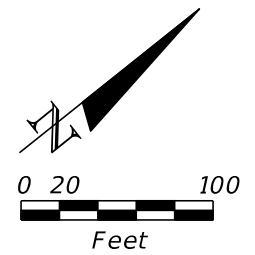
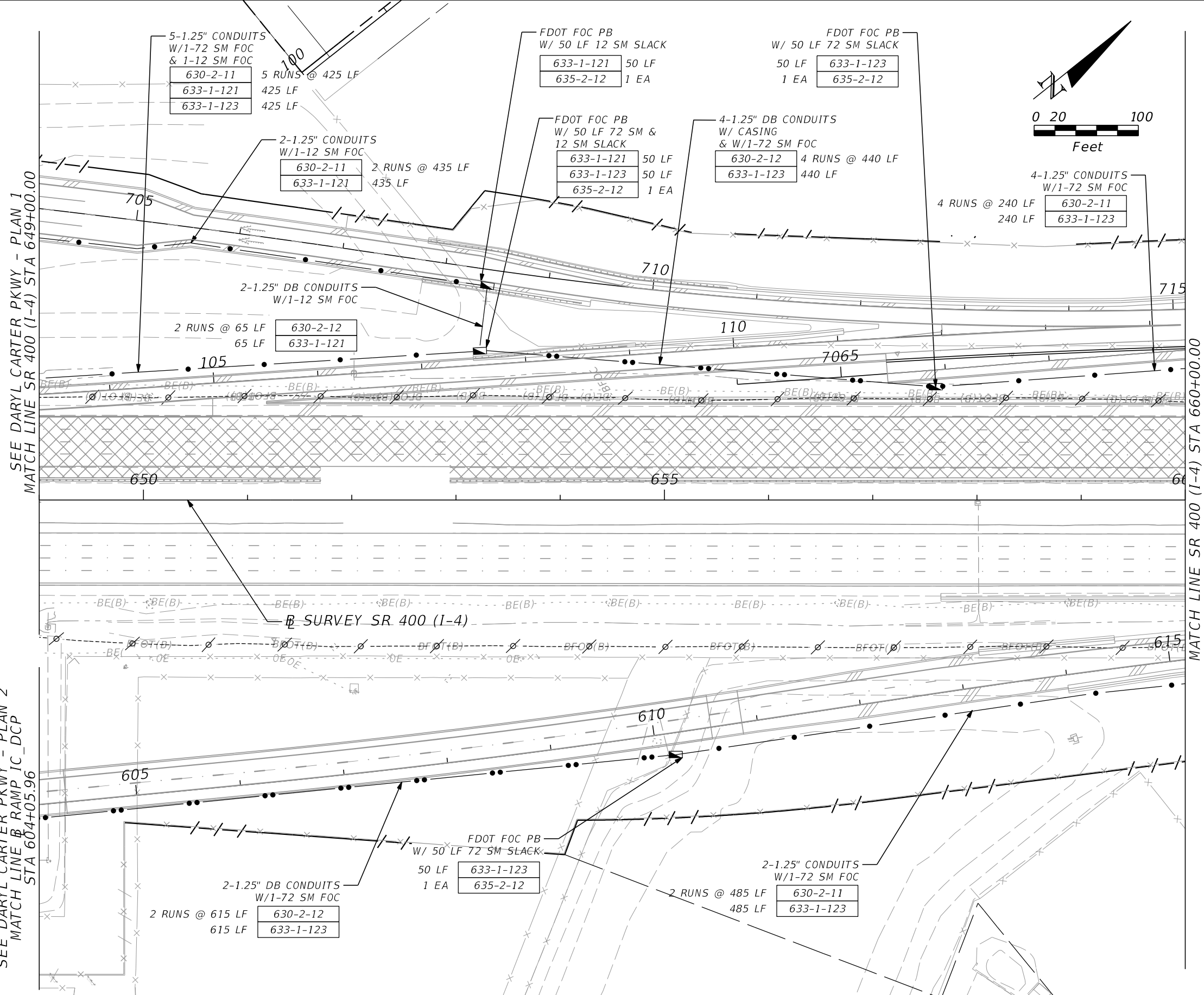
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C.A. No. 8115
Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 8

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.



SEE DARYL CARTER PKWY - PLAN 1
MATCH LINE SR 400 (I-4) STA 649+00.00

MATCH LINE SR 400 (I-4) STA 660+00.00

SEE DARYL CARTER PKWY - PLAN 2
MATCH LINE B RAMP IC_DCP
STA 604+05.96

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

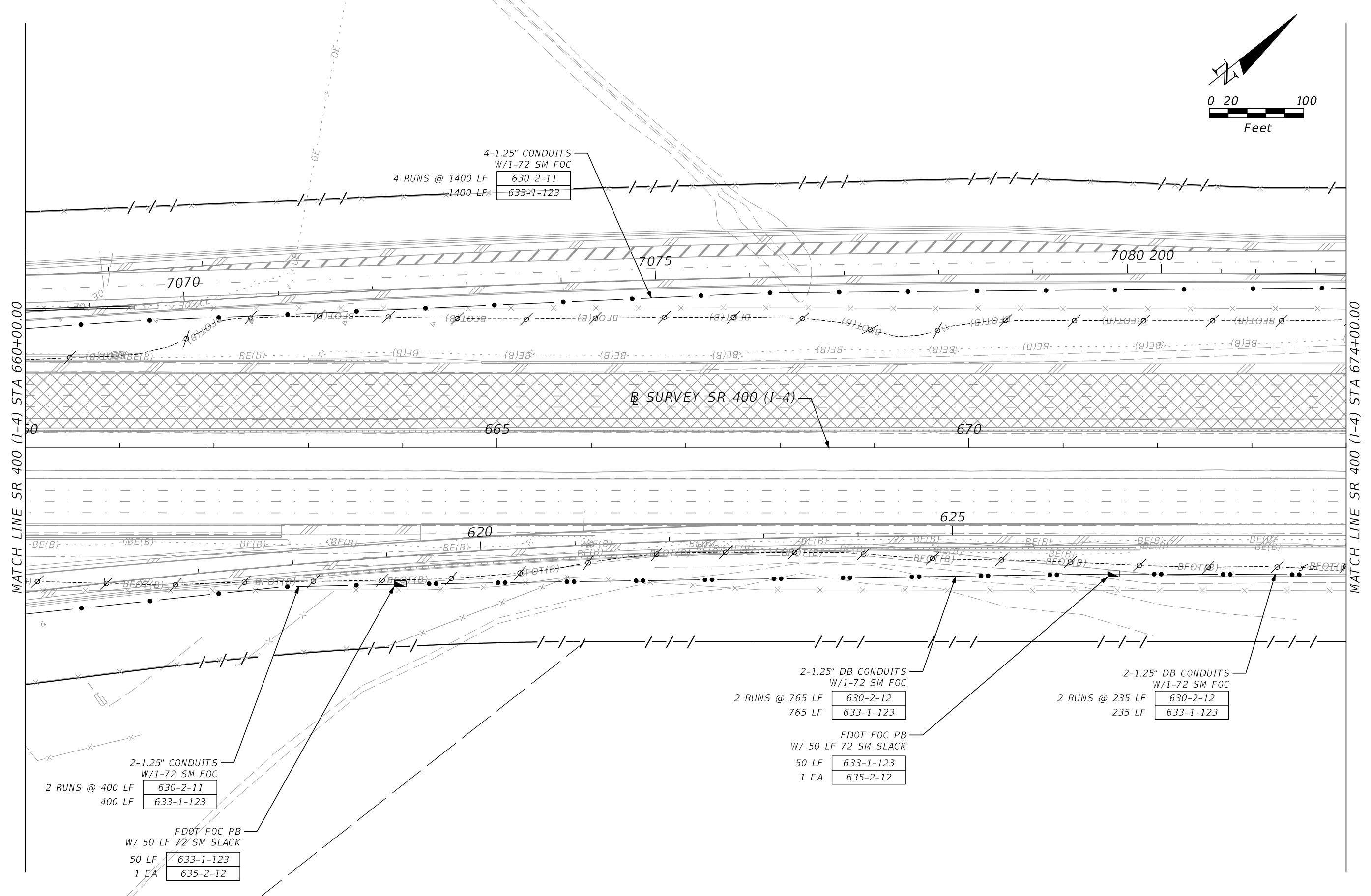
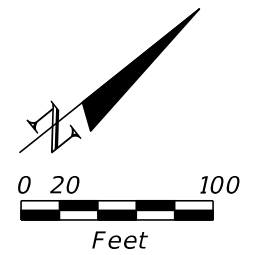
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Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 9

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.



MATCH LINE SR 400 (I-4) STA 660+00.00

MATCH LINE SR 400 (I-4) STA 674+00.00

2-1.25" CONDUITS
W/1-72 SM FOC
2 RUNS @ 400 LF
400 LF

630-2-11
633-1-123

FDOT FOC PB
W/ 50 LF 72 SM SLACK
50 LF
1 EA

633-1-123
635-2-12

2-1.25" DB CONDUITS
W/1-72 SM FOC
2 RUNS @ 765 LF
765 LF

630-2-12
633-1-123

FDOT FOC PB
W/ 50 LF 72 SM SLACK
50 LF
1 EA

633-1-123
635-2-12

2-1.25" DB CONDUITS
W/1-72 SM FOC
2 RUNS @ 235 LF
235 LF

630-2-12
633-1-123

4-1.25" CONDUITS
W/1-72 SM FOC
4 RUNS @ 1400 LF
1400 LF

630-2-11
633-1-123

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

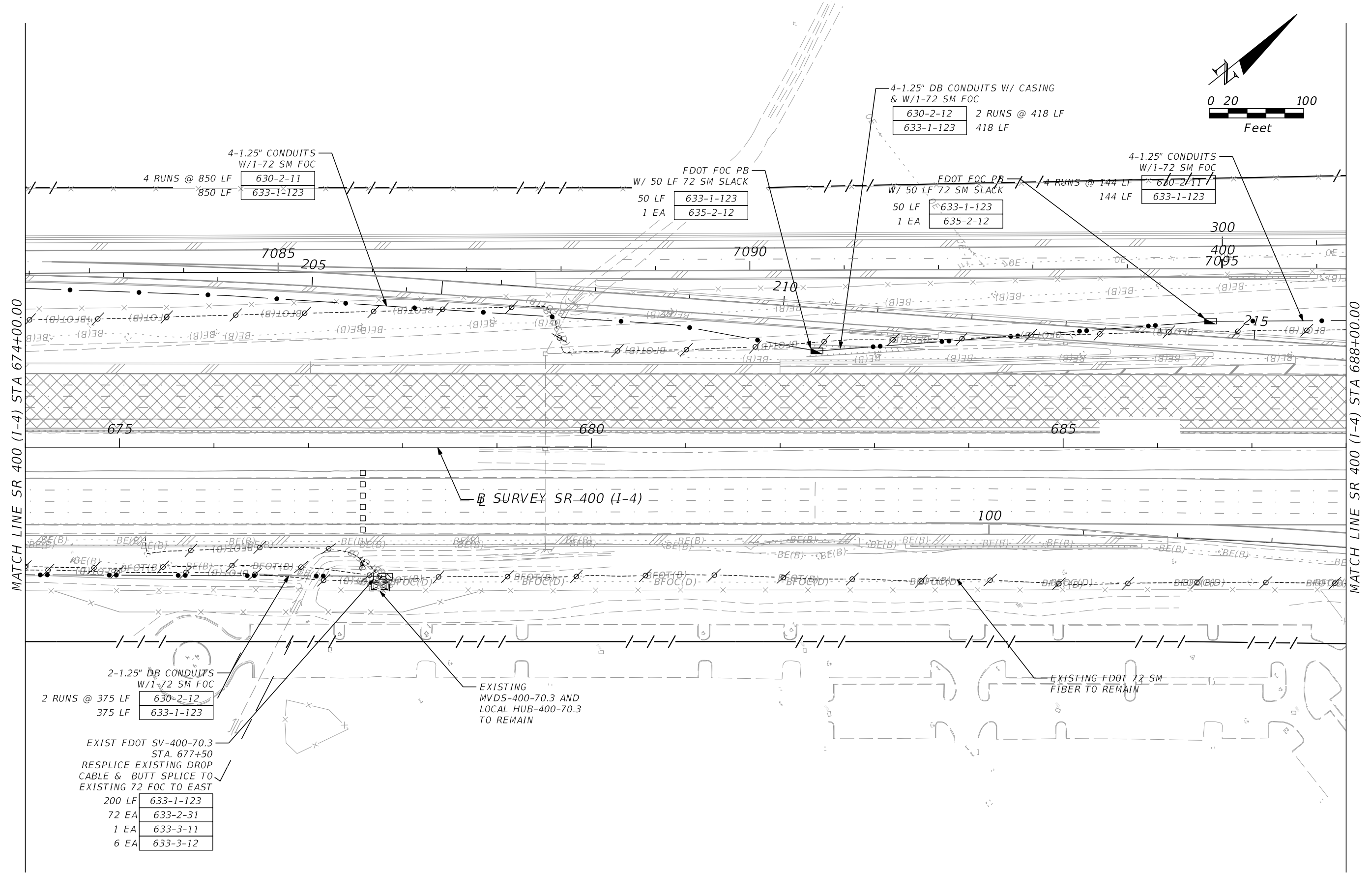
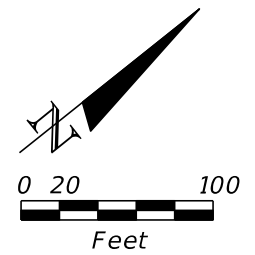
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150 North Orange Avenue, Suite 200
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C.A. No. 8115
Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 10

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.



MATCH LINE SR 400 (I-4) STA 674+00.00

MATCH LINE SR 400 (I-4) STA 688+00.00

2-1.25" DB CONDUITS
W/1-72 SM FOC
2 RUNS @ 375 LF
375 LF

630-2-12
633-1-123

EXIST FDOT SV-400-70.3
STA. 677+50
RESPLICE EXISTING DROP
CABLE & BUTT SPLICE TO
EXISTING 72 FOC TO EAST

200 LF	633-1-123
72 EA	633-2-31
1 EA	633-3-11
6 EA	633-3-12

EXISTING
MVDS-400-70.3 AND
LOCAL HUB-400-70.3
TO REMAIN

EXISTING FDOT 72 SM
FIBER TO REMAIN

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

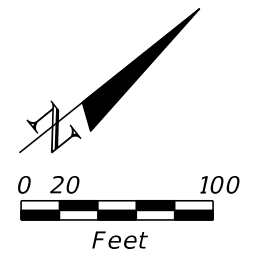
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Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 11

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.



REPLACE EXIST FDOT FPB
WITH PROPOSED SPLICE
VAULT,
CUT EXISTING 72 SM CABLE &
BUTT SPLICE TO PROPOSED 72
SM TO THE WEST

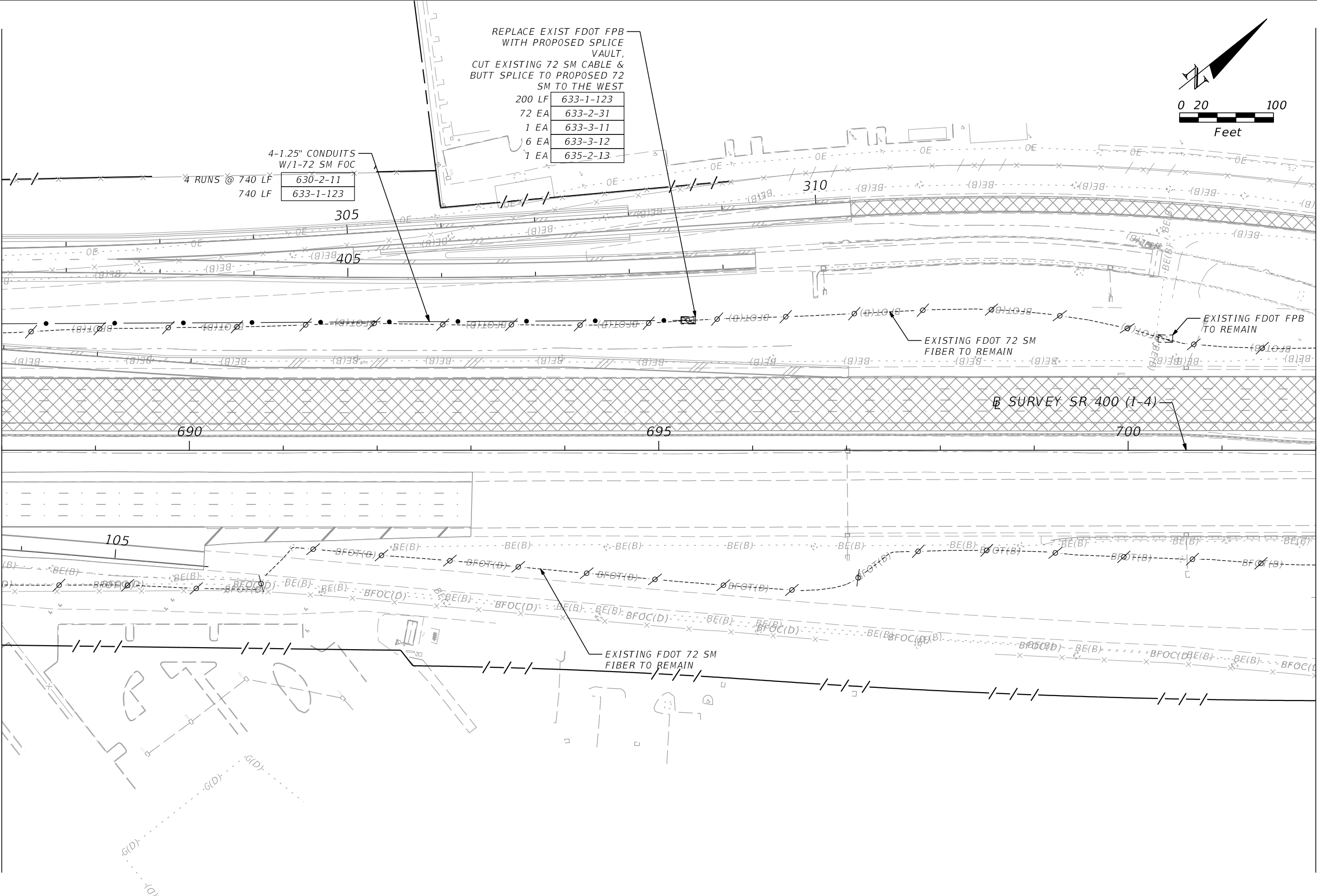
200 LF	633-1-123
72 EA	633-2-31
1 EA	633-3-11
6 EA	633-3-12
1 EA	635-2-13

4-1.25" CONDUITS
W/1-72 SM FOC

740 LF	630-2-11
740 LF	633-1-123

MATCH LINE SR 400 (I-4) STA 688+00.00

MATCH LINE SR 400 (I-4) STA 702+00.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

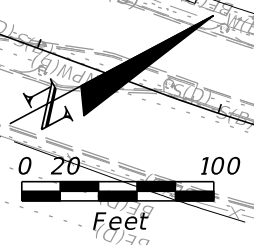
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 12

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.



END PROJECT 441113-1-52-01
 END CONSTRUCTION 441113-1-52-01
 SURVEY SR 400 (I-4) STA 707+00.00

MATCH LINE SR 400 (I-4) STA 702+00.00

EXIST. CCTV-400-70.8
 AND 2-MVDS-400-70.8
 STA. 705+47
 TO REMAIN

EXISTING FDOT 72 SM
 FIBER TO REMAIN

EXISTING FDOT 72 SM
 FIBER TO REMAIN

EXISTING 12 SM
 FIBER DROP TO
 REMAIN

EXISTING
 LOCAL HUB-70.9
 STA. 707+47
 TO REMAIN

SURVEY SR 400 (I-4)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

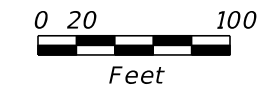
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

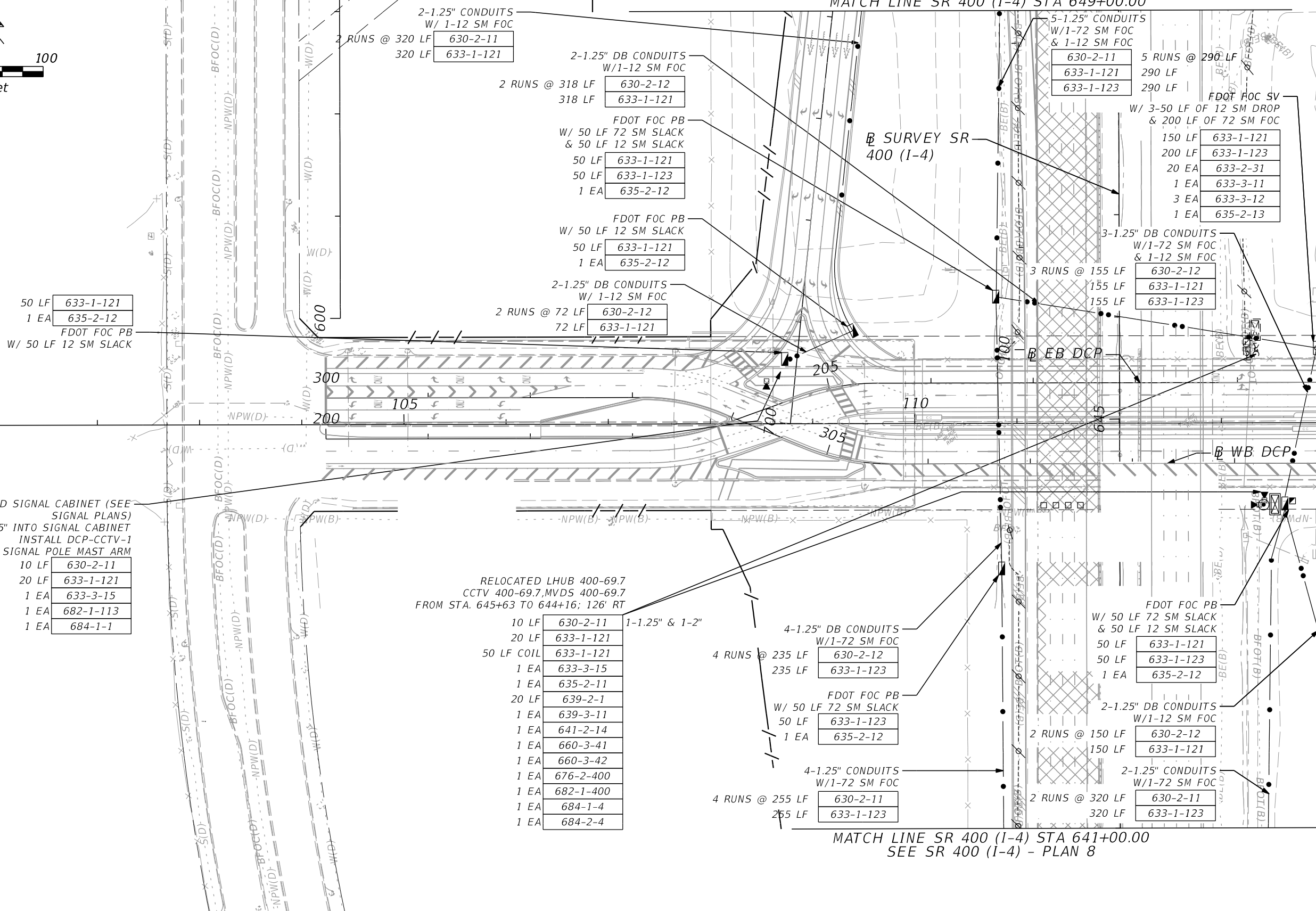
SR 400 (I-4) - PLAN 13

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.



SEE SR 400 (I-4) - PLAN 9
MATCH LINE SR 400 (I-4) STA 649+00.00



50 LF 633-1-121
1 EA 635-2-12
FDOT FOC PB
W/ 50 LF 12 SM SLACK

2-1.25" CONDUITS
W/ 1-12 SM FOC
2 RUNS @ 320 LF 630-2-11
320 LF 633-1-121

2-1.25" DB CONDUITS
W/1-12 SM FOC
2 RUNS @ 318 LF 630-2-12
318 LF 633-1-121

FDOT FOC PB
W/ 50 LF 72 SM SLACK
& 50 LF 12 SM SLACK
50 LF 633-1-121
50 LF 633-1-123
1 EA 635-2-12

FDOT FOC PB
W/ 50 LF 12 SM SLACK
50 LF 633-1-121
1 EA 635-2-12

2-1.25" DB CONDUITS
W/ 1-12 SM FOC
2 RUNS @ 72 LF 630-2-12
72 LF 633-1-121

5-1.25" CONDUITS
W/1-72 SM FOC
& 1-12 SM FOC
630-2-11 5 RUNS @ 290 LF
633-1-121 290 LF
633-1-123 290 LF

FDOT FOC SV
W/ 3-50 LF OF 12 SM DROP
& 200 LF OF 72 SM FOC
150 LF 633-1-121
200 LF 633-1-123
20 EA 633-2-31
1 EA 633-3-11
3 EA 633-3-12
1 EA 635-2-13

3-1.25" DB CONDUITS
W/1-72 SM FOC
& 1-12 SM FOC
3 RUNS @ 155 LF 630-2-12
155 LF 633-1-121
155 LF 633-1-123

PROPOSED SIGNAL CABINET (SEE
SIGNAL PLANS)
INSTALL 2-1.25" INTO SIGNAL CABINET
INSTALL DCP-CCTV-1
ON SIGNAL POLE MAST ARM
10 LF 630-2-11
20 LF 633-1-121
1 EA 633-3-15
1 EA 682-1-113
1 EA 684-1-1

RELOCATED LHUB 400-69.7
CCTV 400-69.7, MVDS 400-69.7
FROM STA. 645+63 TO 644+16; 126' RT

1-1.25" & 1-2"
10 LF 630-2-11
20 LF 633-1-121
50 LF COIL 633-1-121
1 EA 633-3-15
1 EA 635-2-11
20 LF 639-2-1
1 EA 639-3-11
1 EA 641-2-14
1 EA 660-3-41
1 EA 660-3-42
1 EA 676-2-400
1 EA 682-1-400
1 EA 684-1-4
1 EA 684-2-4

4-1.25" DB CONDUITS
W/1-72 SM FOC
4 RUNS @ 235 LF 630-2-12
235 LF 633-1-123

FDOT FOC PB
W/ 50 LF 72 SM SLACK
50 LF 633-1-123
1 EA 635-2-12

4-1.25" CONDUITS
W/1-72 SM FOC
4 RUNS @ 255 LF 630-2-11
255 LF 633-1-123

FDOT FOC PB
W/ 50 LF 72 SM SLACK
& 50 LF 12 SM SLACK
50 LF 633-1-121
50 LF 633-1-123
1 EA 635-2-12

2-1.25" DB CONDUITS
W/1-12 SM FOC
2 RUNS @ 150 LF 630-2-12
150 LF 633-1-121

2-1.25" CONDUITS
W/1-72 SM FOC
2 RUNS @ 320 LF 630-2-11
320 LF 633-1-123

MATCH LINE SR 400 (I-4) STA 641+00.00
SEE SR 400 (I-4) - PLAN 8

MATCH LINE DARYL CARTER PKWY STA 114+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AECOM Technical Services, Inc.
150 North Orange Avenue, Suite 200
Orlando, FL 32801
C.A. No. 8115
Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

DARYL CARTER PKWY - PLAN 1

SHEET NO.
IT-24

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SEE SR 400 (I-4) - PLAN 9
MATCH LINE B RAMP IC_DCP
STA 604+05.96

2-1.25" DB CONDUITS
W/1-72 SM FOC
630-2-12 2 RUNS @ 61 LF
633-1-123 61 LF

FDOT FOC PB
W/ 50 LF 72 SM SLACK
633-1-123 50 LF
635-2-12 1 EA

2-1.25" DB CONDUITS
W/1-72 SM FOC
630-2-12 2 RUNS @ 295 LF
633-1-123 295 LF

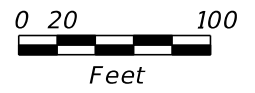
PROPOSED SIGNAL CABINET (SEE
SIGNAL PLANS)
INSTALL 2-1.25" INTO SIGNAL CABINET
INSTALL DCP-CCTV-2
ON SIGNAL POLE MAST ARM
630-2-11 10 LF
633-1-121 20 LF
633-3-15 1 EA
682-1-113 1 EA
684-1-1 1 EA

FDOT FOC PB
W/ 50 LF 12 SM SLACK
633-1-121 50 LF
635-2-12 1 EA

2-1.25" DB CONDUITS
W/1-72 SM FOC
630-2-12 2 RUNS @ 185 LF
633-1-121 185 LF

2-1.25" CONDUITS
W/1-12 SM FOC
630-2-11 2 RUNS @ 365 LF
633-1-121 365 LF

MATCH LINE B RAMP IB_DCP
STA 511+61.14
SEE SR 400 (I-4) - PLAN 8



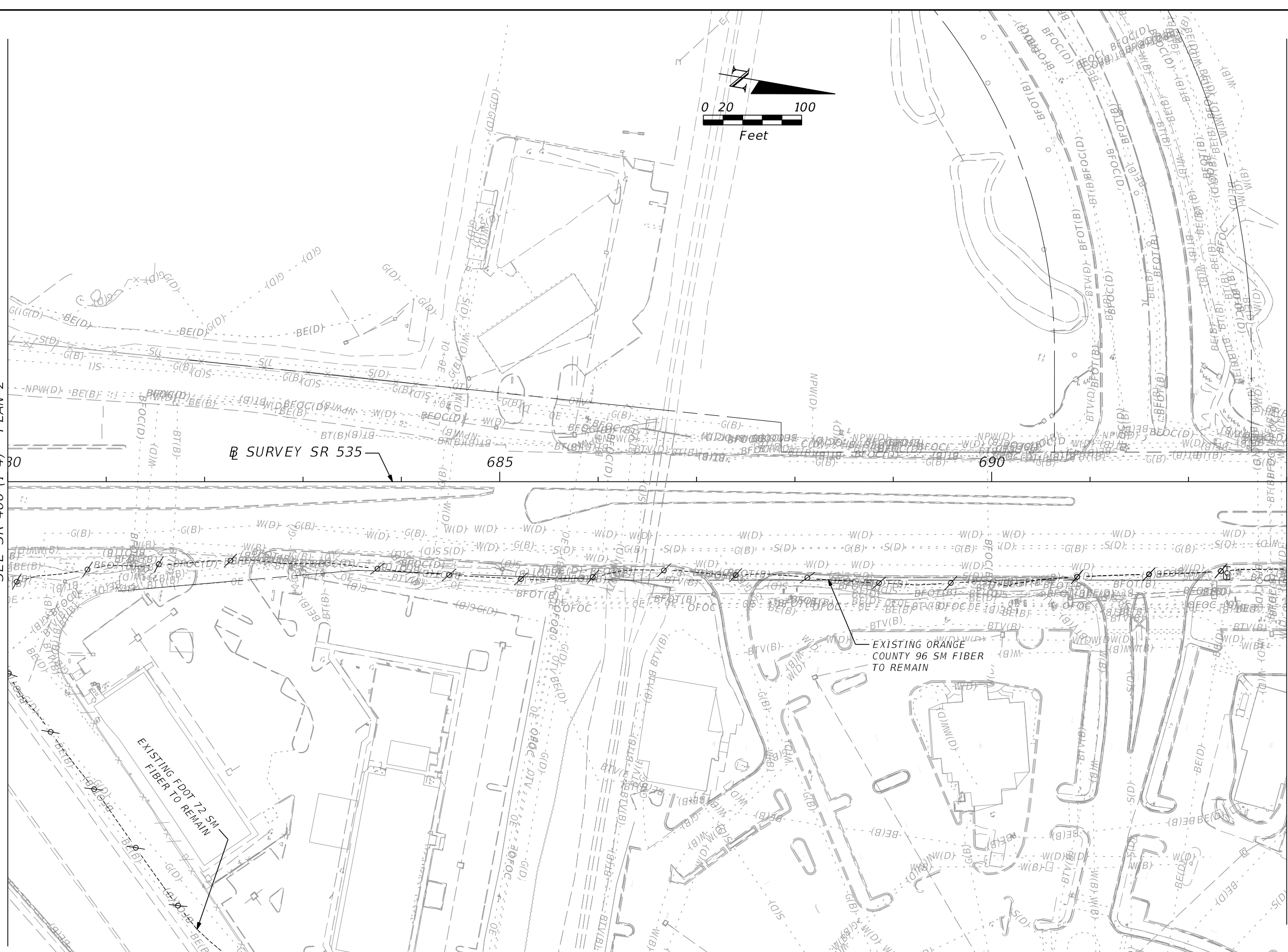
MATCH LINE DARYL CARTER PKWY STA 114+00.00

DARYL CARTER PKWY

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. DARYL CARTER PKWY - PLAN 2 IT-25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	

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MATCH LINE SR 535 STA 680+00.00
SEE SR 400 (I-4) - PLAN 2



MATCH LINE SR 535 STA 693+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

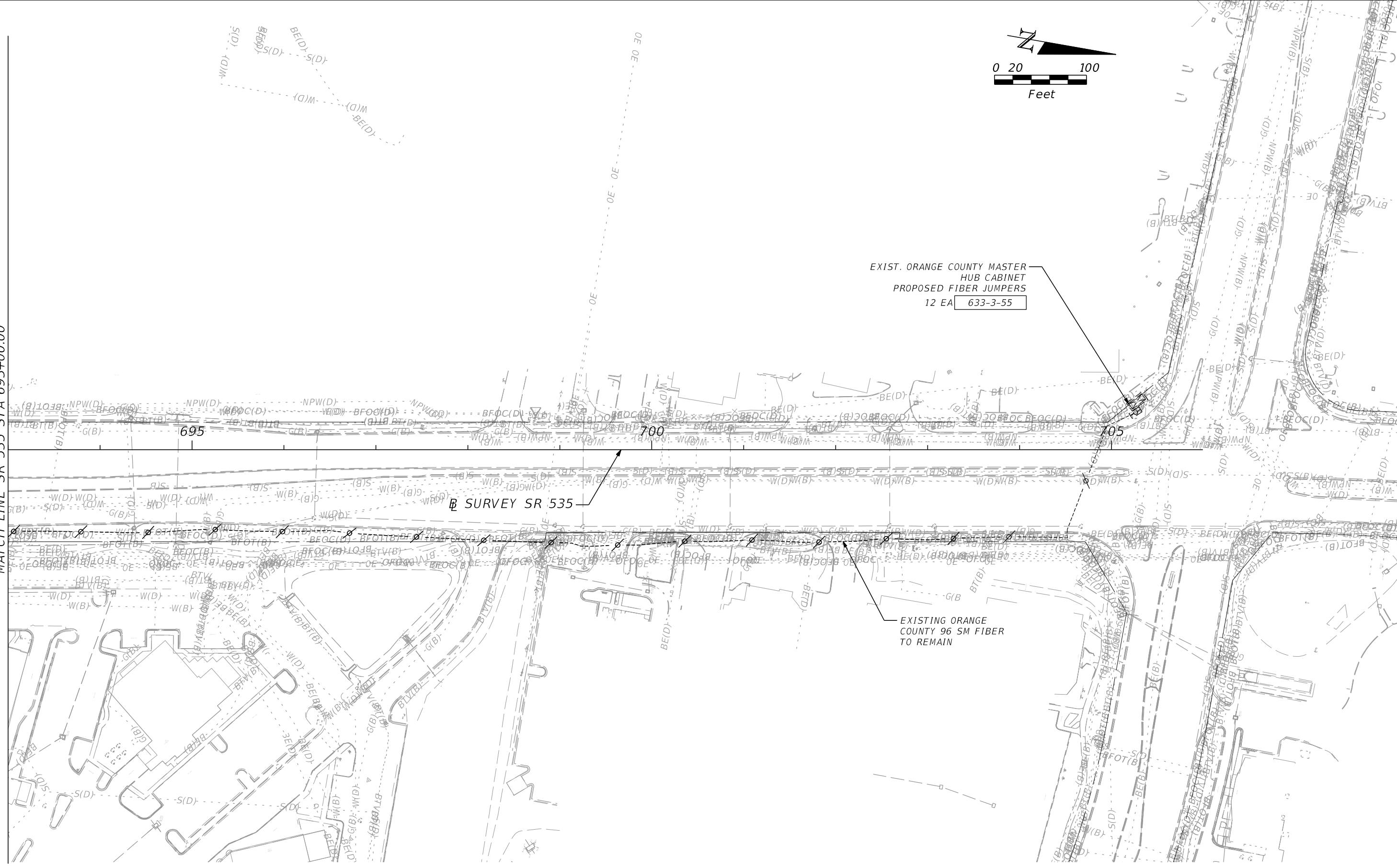
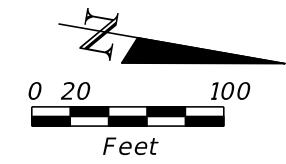
AECOM Technical Services, Inc.
150 North Orange Avenue, Suite 200
Orlando, FL 32801
C.A. No. 8115
Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 535 - PLAN 1

SHEET NO.
IT-26

MATCH LINE SR 535 STA 693+00.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AECOM Technical Services, Inc.
 150 North Orange Avenue, Suite 200
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 Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 535 - PLAN 2

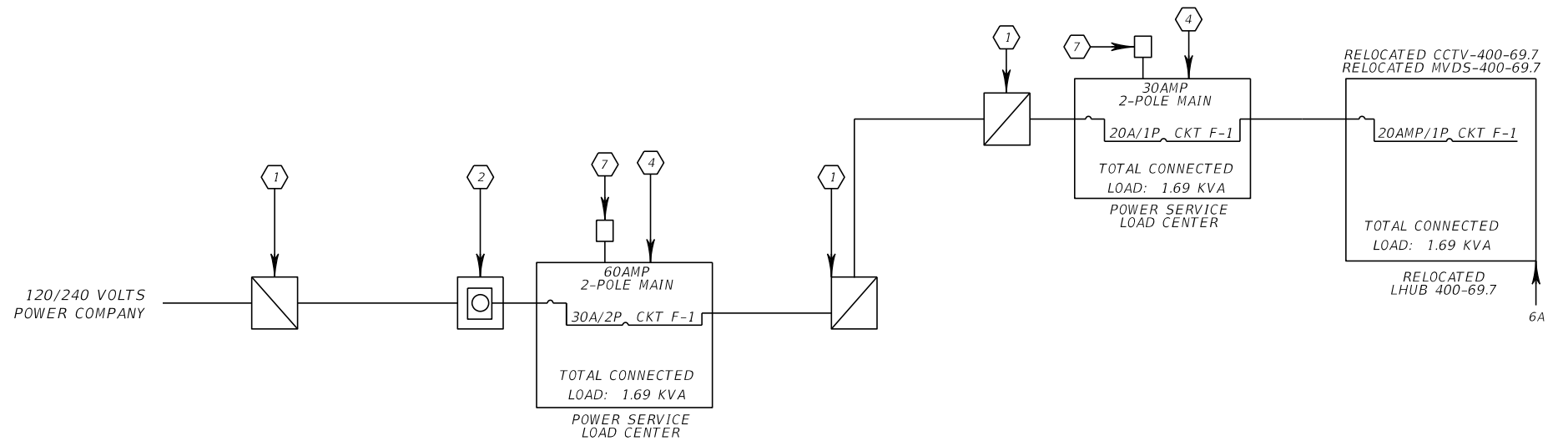
SHEET NO.
IT-27

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ONE LINE DIAGRAM

KEYED NOTES:

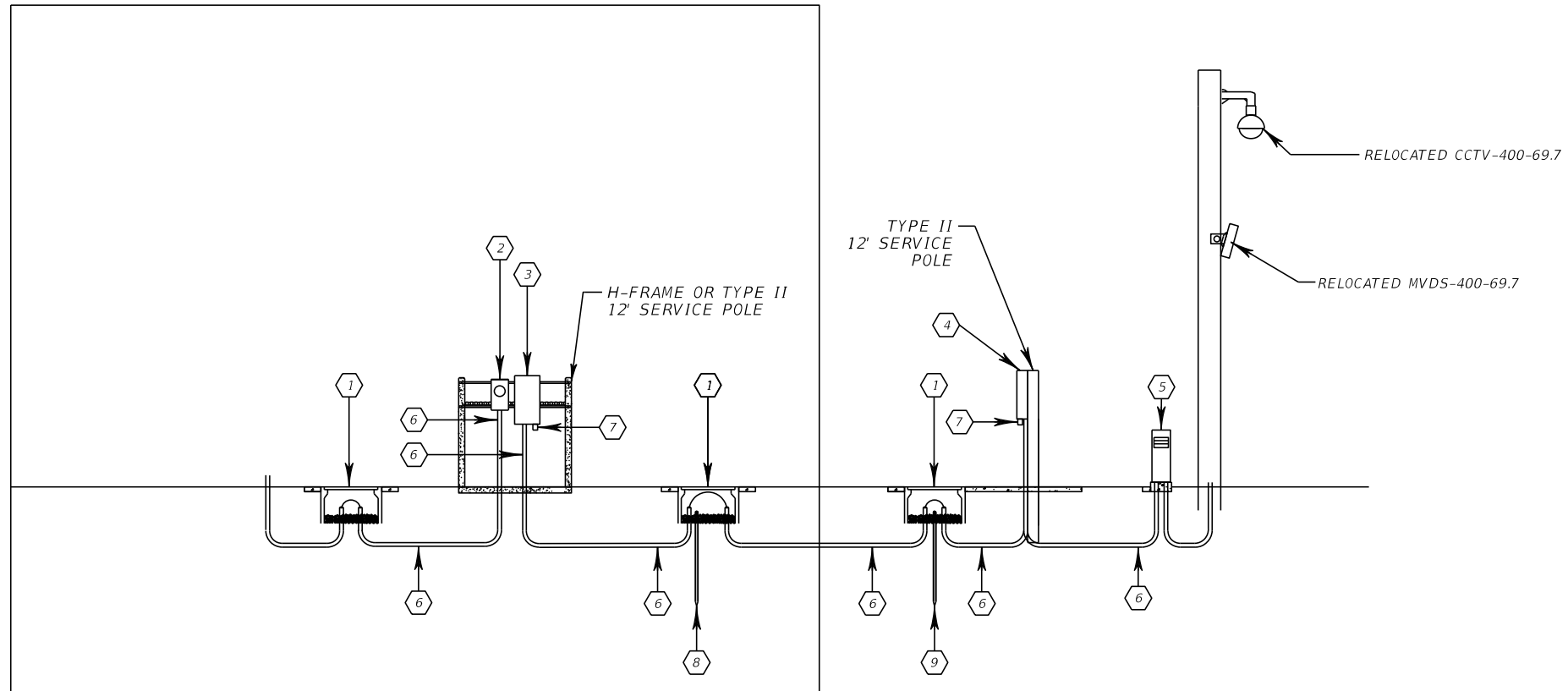
- 1 PULL BOX.
- 2 METER SOCKET BY CONTRACTOR, METER BY POWER COMPANY.
- 3 60 AMP 2-POLE, 120/240V MAIN CIRCUIT BREAKER PANEL.
- 4 30 AMP 2-POLE, 120/240V MAIN CIRCUIT BREAKER PANEL.
- 5 EXISTING RELOCATED ITS CABINET
- 6 1-2" CONDUIT TYPE RGS FOR ABOVE GROUND AND 2-2" HDPE FOR UNDERGROUND.
- 7 SURGE PROTECTION DEVICE.
- 8 GROUND ROD.



NOTES:

1. ALL EMPTY POWER CONDUITS SHALL BE CAPPED AND FURNISHED WITH A PULL STRING FOR FUTURE USE.
2. CONTRACTOR SHALL GROUND THIS SITE AS SHOWN WITHIN THE GROUNDING DETAILS.
3. ELECTRICAL GROUNDING SHALL MEET A REQUIRED RESISTANCE OF 5 OHMS OR LESS.
4. CONDUCTOR SIZE AND QUANTITY VARIES. SEE PLAN SHEETS.
5. PULL BOXES LOCATION AND QUANTITY VARIES. SEE PLAN SHEETS.

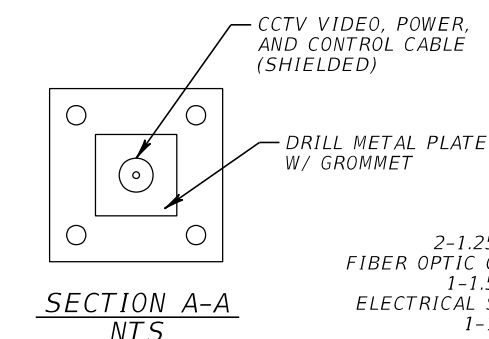
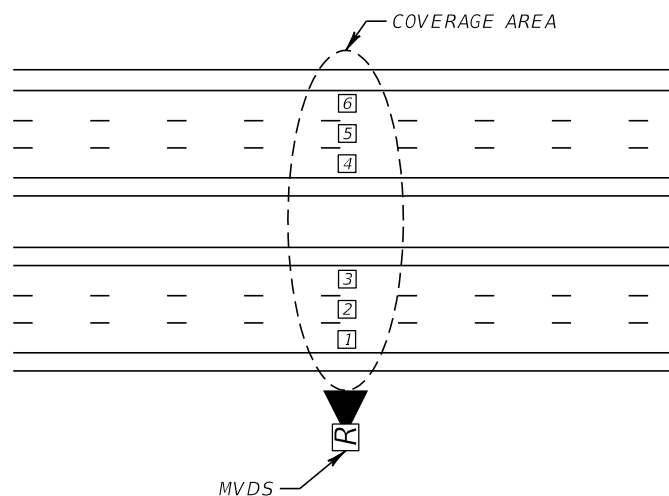
SEE GROUNDING DETAILS FOR MORE INFORMATION



REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POWER SERVICE DETAILS (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		IT-28

TYPICAL CCTV & MVDS INSTALLATION DETAILS

TYPICAL DIVIDED HIGHWAY

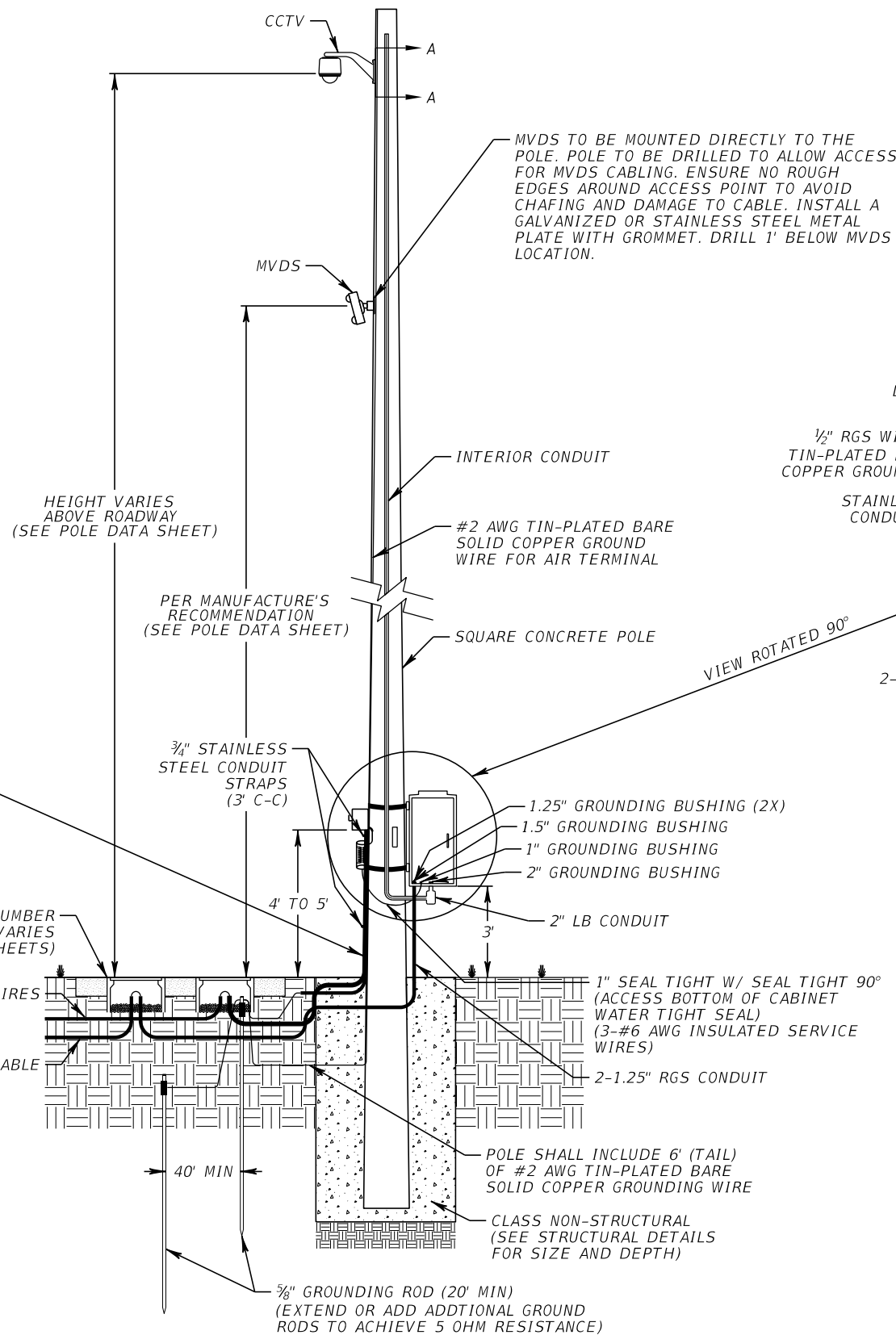


2-1.25" RGS CONDUIT
FIBER OPTIC CABLE & SPARE
1-1.5" RGS CONDUIT
ELECTRICAL SERVICE WIRES
1-1" RGS CONDUIT
GROUND WIRE
*SEE NOTE 2

LOCATION AND NUMBER
OF PULL BOXES VARIES
(SEE ITS PLAN SHEETS)

ELECTRICAL SERVICE WIRES

FIBER OPTIC CABLE

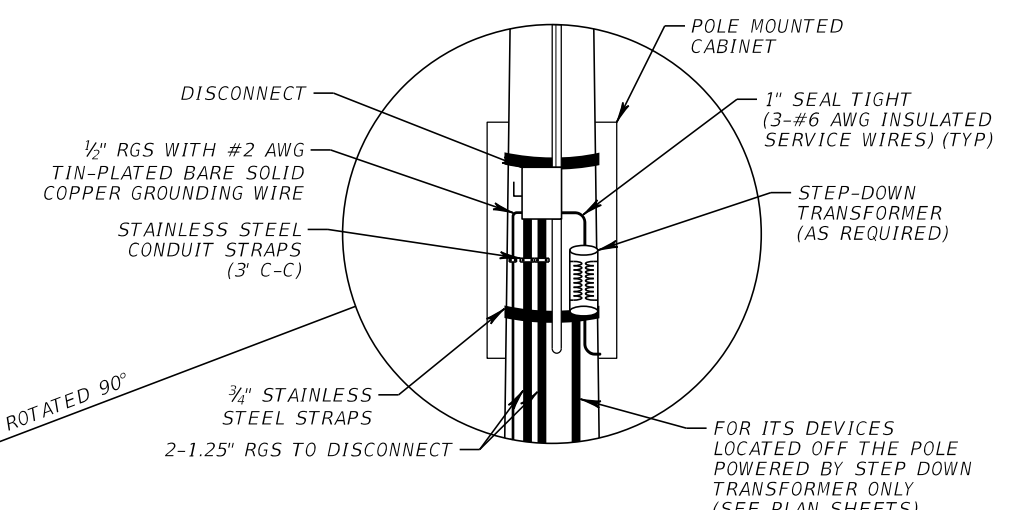


MVDS TO BE MOUNTED DIRECTLY TO THE POLE. POLE TO BE DRILLED TO ALLOW ACCESS FOR MVDS CABLING. ENSURE NO ROUGH EDGES AROUND ACCESS POINT TO AVOID CHAFING AND DAMAGE TO CABLE. INSTALL A GALVANIZED OR STAINLESS STEEL METAL PLATE WITH GROMMET. DRILL 1' BELOW MVDS LOCATION.

HEIGHT VARIES ABOVE ROADWAY (SEE POLE DATA SHEET)

PER MANUFACTURE'S RECOMMENDATION (SEE POLE DATA SHEET)

VIEW ROTATED 90°



1.25" GROUNDING BUSHING (2X)
1.5" GROUNDING BUSHING
1" GROUNDING BUSHING
2" GROUNDING BUSHING

2" LB CONDUIT

1" SEAL TIGHT W/ SEAL TIGHT 90° (ACCESS BOTTOM OF CABINET WATER TIGHT SEAL) (3-#6 AWG INSULATED SERVICE WIRES)

POLE SHALL INCLUDE 6' (TAIL) OF #2 AWG TIN-PLATED BARE SOLID COPPER GROUNDING WIRE

CLASS NON-STRUCTURAL (SEE STRUCTURAL DETAILS FOR SIZE AND DEPTH)

3/8" GROUNDING ROD (20' MIN) (EXTEND OR ADD ADDITIONAL GROUND RODS TO ACHIEVE 5 OHM RESISTANCE)

GROUNDING NOTES:

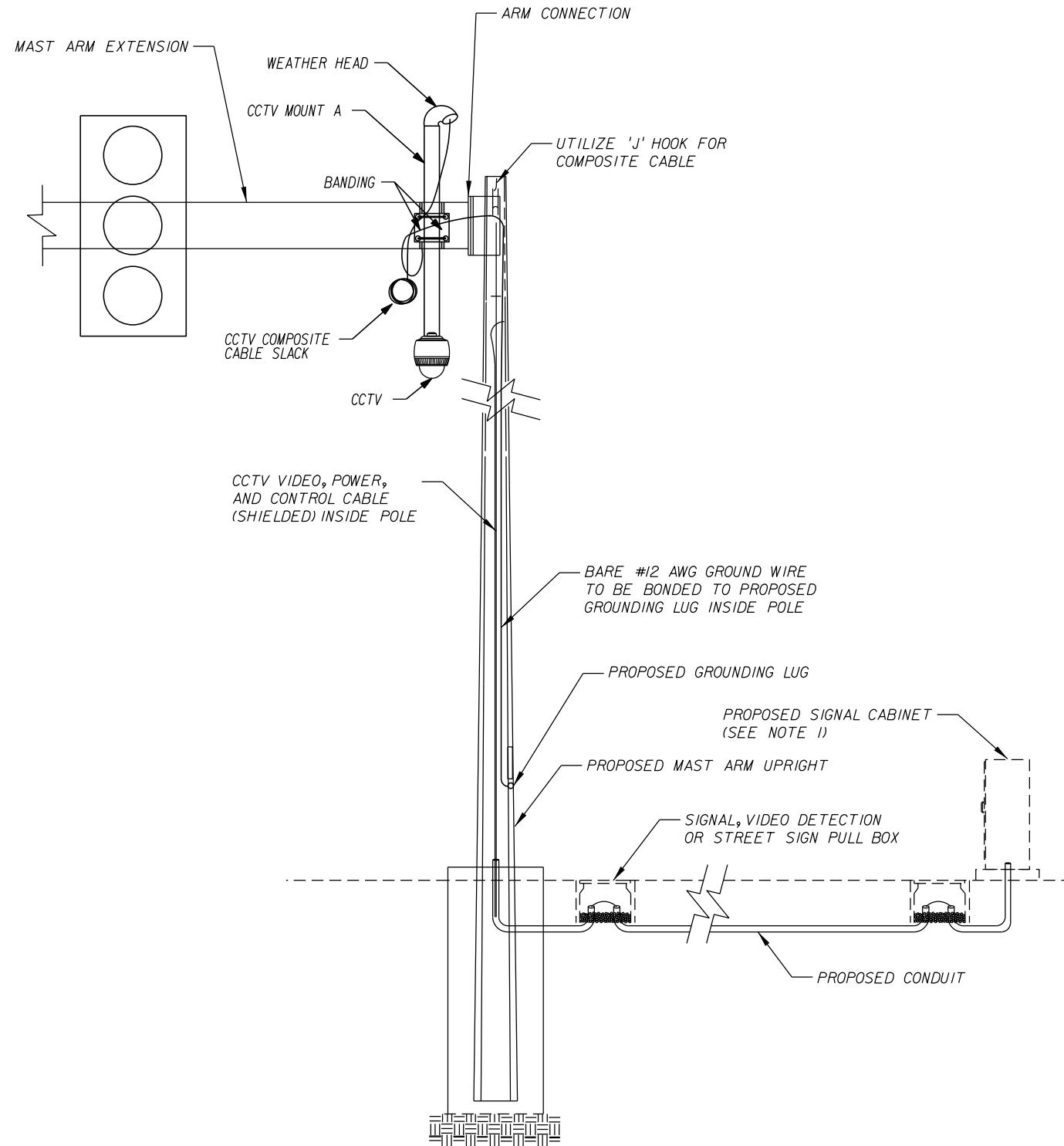
- GROUND WIRE LEADS SHALL BE BONDED TO EQUIPMENT CABINETS WITH A COPPER GROUND BAR. BOND SHALL BE LOCATED ON THE INSIDE OF THE CABINET WITH THE EARTH WIRE TERMINATED IN A CABLE LUG, BOLTED TO THE GROUND BAR AND PROTECTED WITH NO-OX COMPOUND.
- THE GROUNDING SYSTEM SHALL MEET THE REQUIREMENT OF 5 OHMS OR LESS AS MEASURED FROM THE POLE STRUCTURE USING THE THREE-POINT GROUND MEASUREMENT TECHNIQUE. IF THE 5-OHM REQUIREMENT IS NOT MET, LONGER GROUND RODS MAY BE USED OR THE GROUNDING ARRAY EXTENDED UNTIL THE 5-OHM REQUIREMENT IS MET.

NOTES:

- MOUNT CCTV CAMERA ON THE SIDE OF POLE NEAREST INTENDED FIELD OF VIEW AND AVOID OCCLUDING THE VIEW WITH THE POLE.
- POLE MOUNTED CABINET TO BE ORIENTED PER THE ITS PLAN SHEETS.
- GROUNDING WIRE FROM CABINET SHALL BE PLACED IN ITS OWN CONDUIT AND ROUTED INTO THE NECESSARY PULL BOX.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-29
					SR 400	ORANGE	441113-1-52-01		

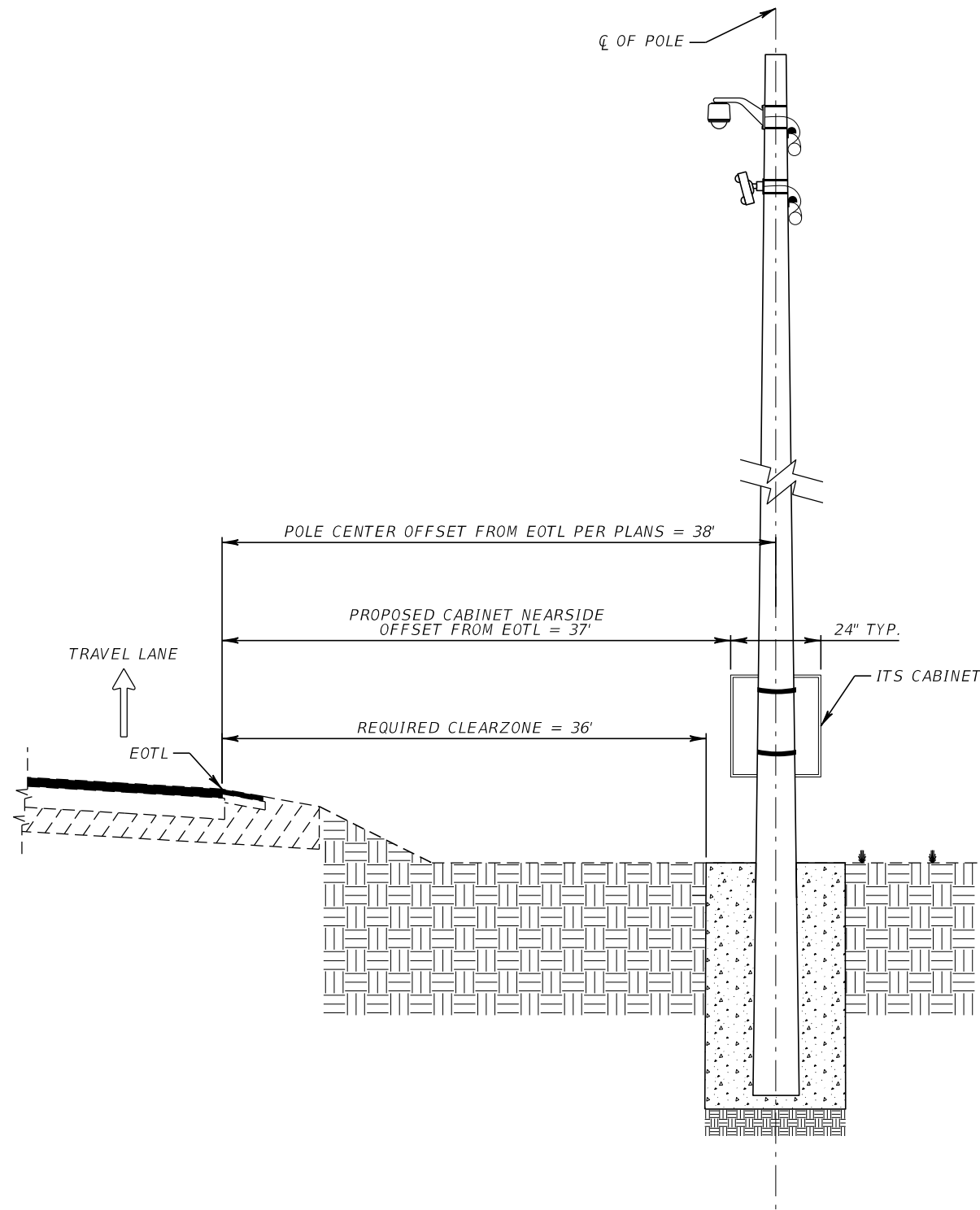
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PROPOSED MAST ARM (TYPICAL)
N.T.S.

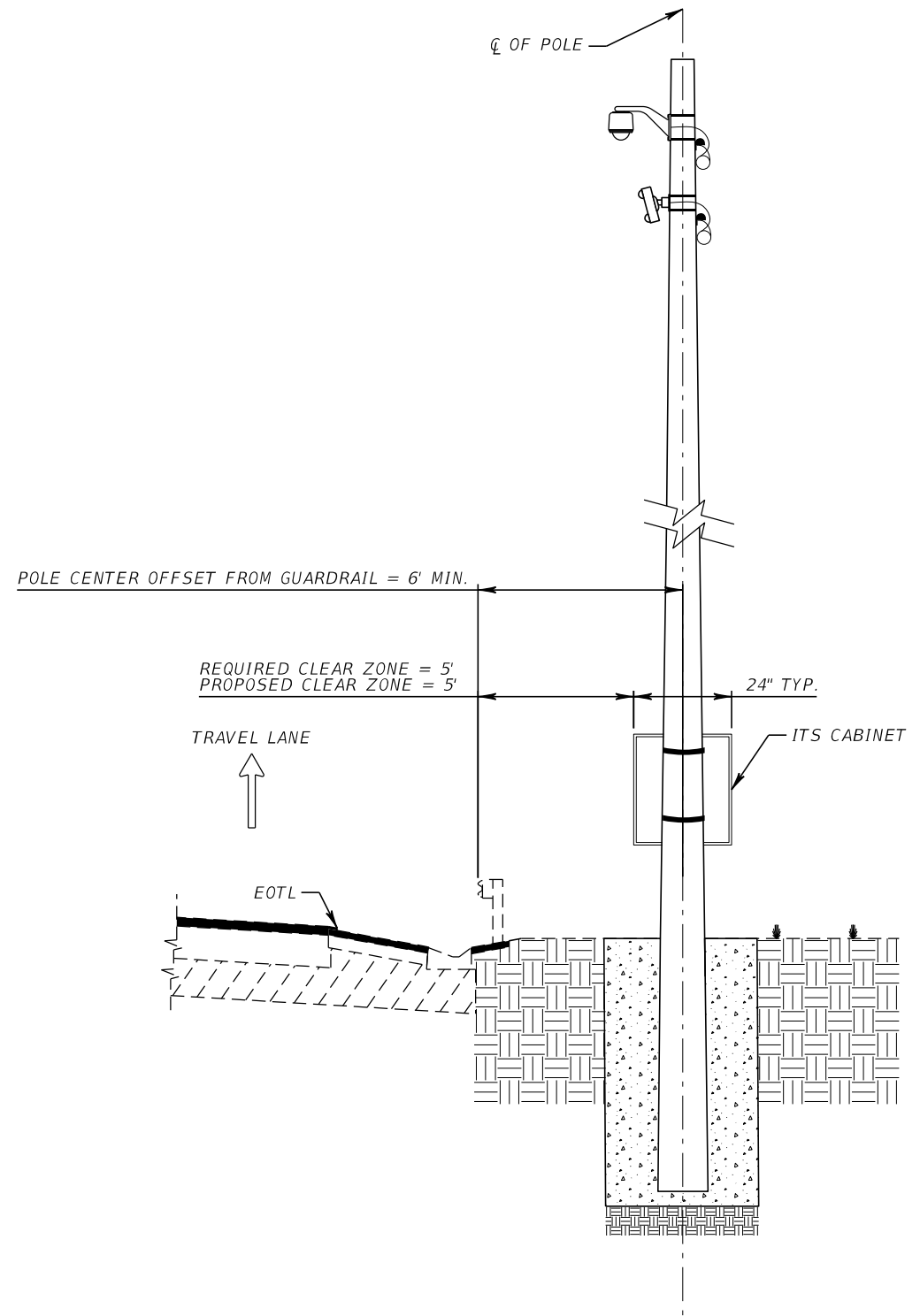
NOTE:
1. CONTRACTOR SHALL INSTALL CCTV POWER, DATA, AND VIDEO SURGE PROTECTION INSIDE THE CABINET.

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS MOUNTING DETAILS (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-30
					SR 400	ORANGE	441113-1-52-01		



TYPICAL EOTL CLEAR ZONE DETAIL

NTS



TYPICAL GUARDRAIL CLEAR ZONE DETAIL

NTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AECOM Technical Services, Inc.
 150 North Orange Avenue, Suite 200
 Orlando, FL 32801
 C.A. No. 8115
 Patrick Robert O'Shea, P.E. No. 81435

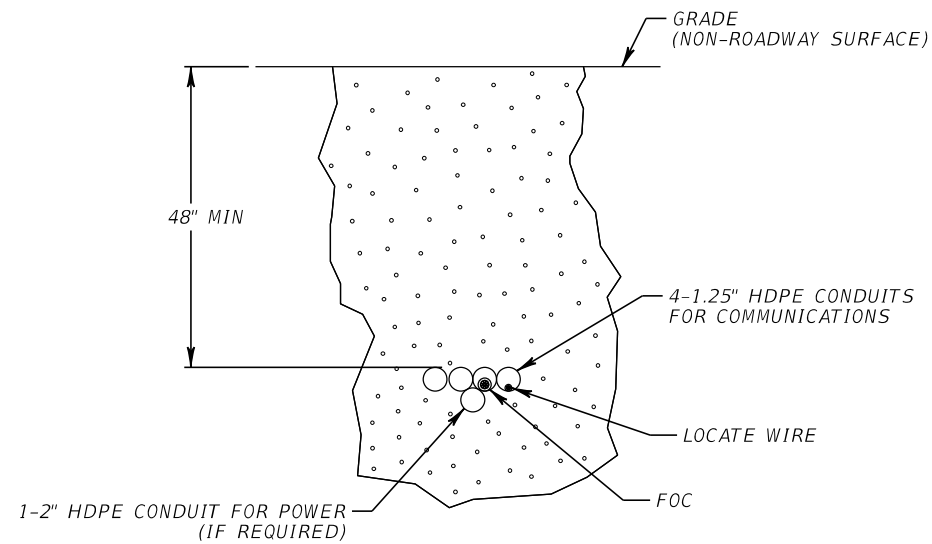
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

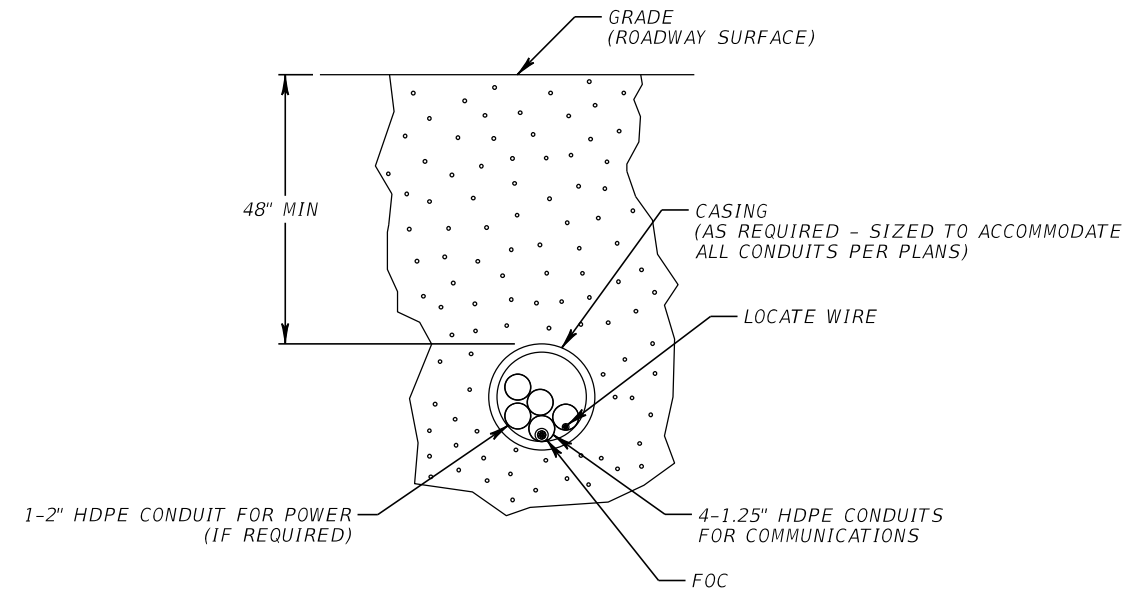
CLEAR ZONE DETAIL

SHEET NO.

IT-31



TYPICAL DIRECTIONAL BORE
NTS



DIRECTIONAL BORE UNDER ROADWAY SURFACE
NTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AECOM Technical Services, Inc.
150 North Orange Avenue, Suite 200
Orlando, FL 32801
C.A. No. 8115
Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

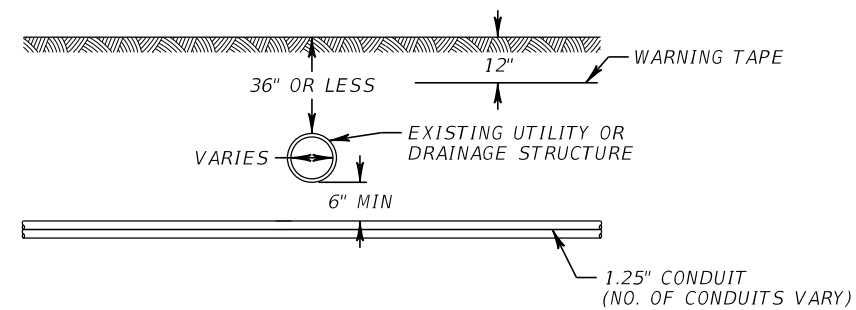
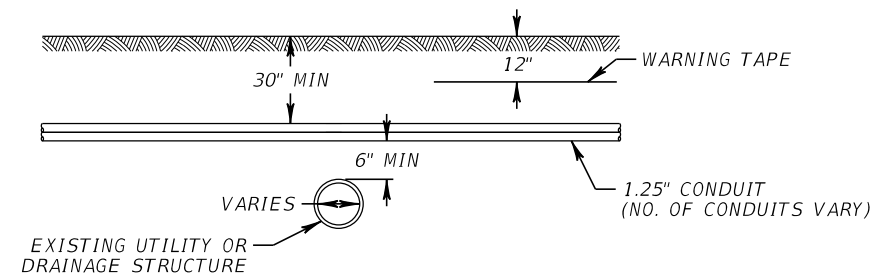
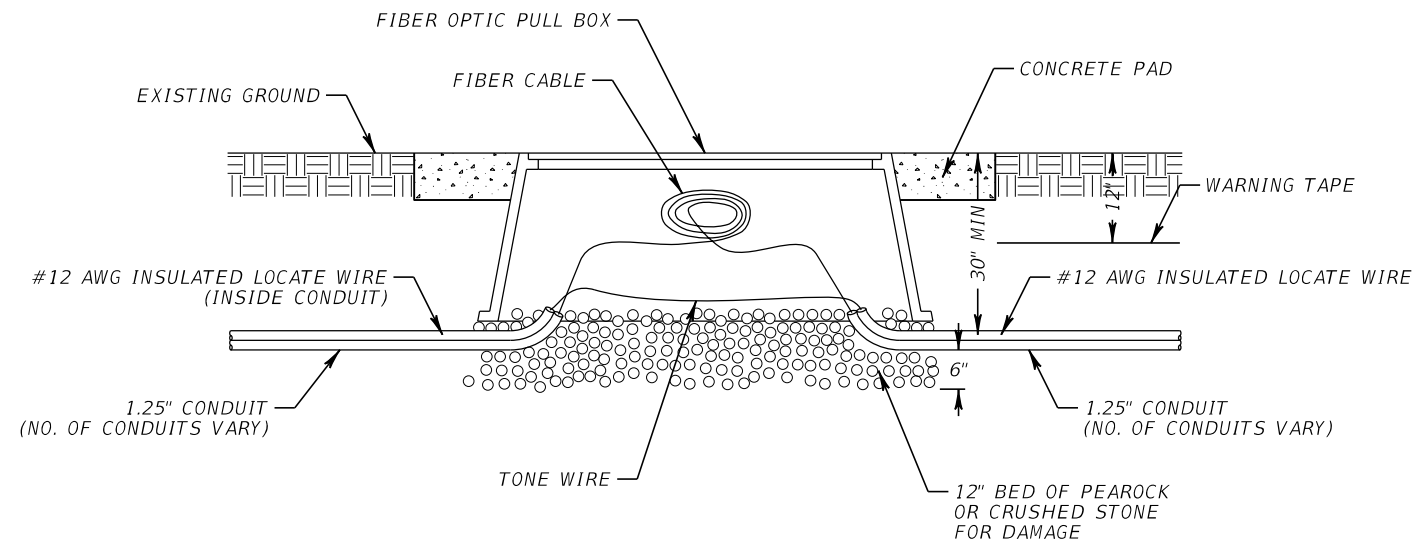
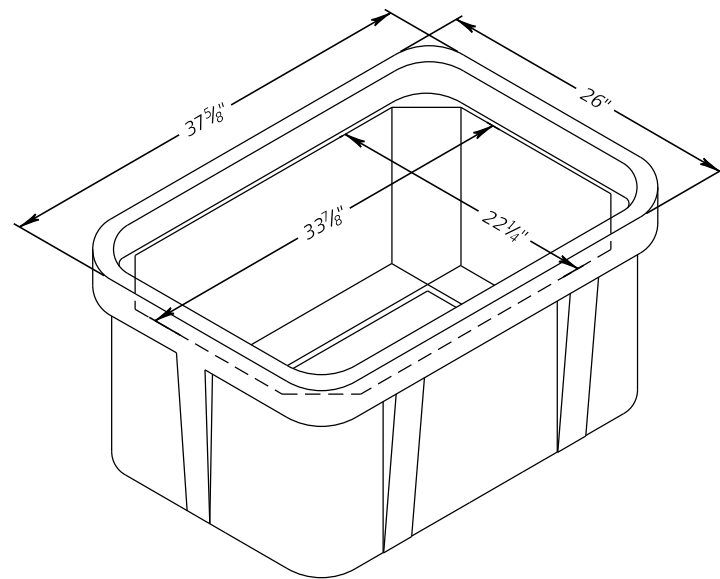
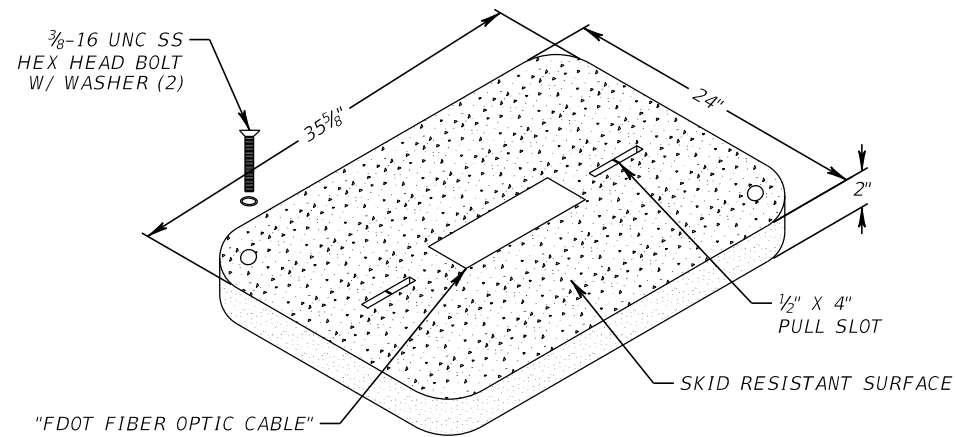
DIRECTIONAL BORE DETAIL

SHEET NO.

IT-32

FIBER OPTIC PULL BOX AND CONDUIT DETAILS

NTS



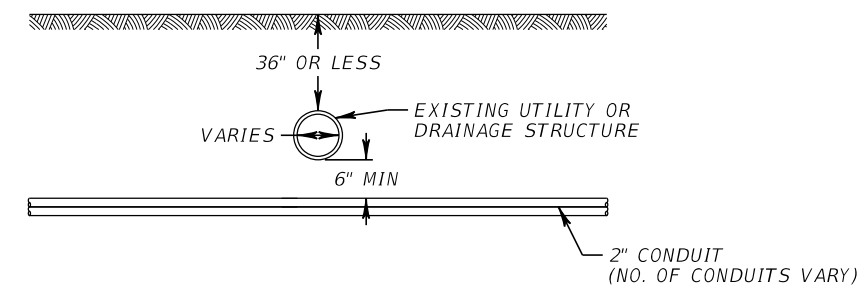
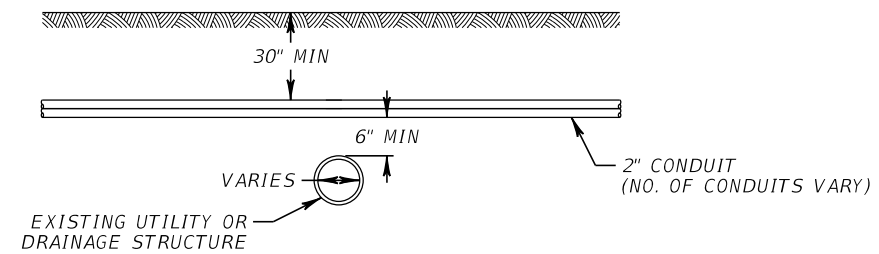
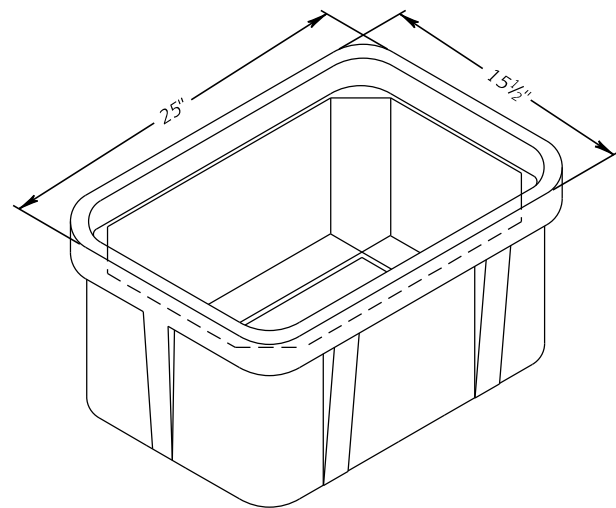
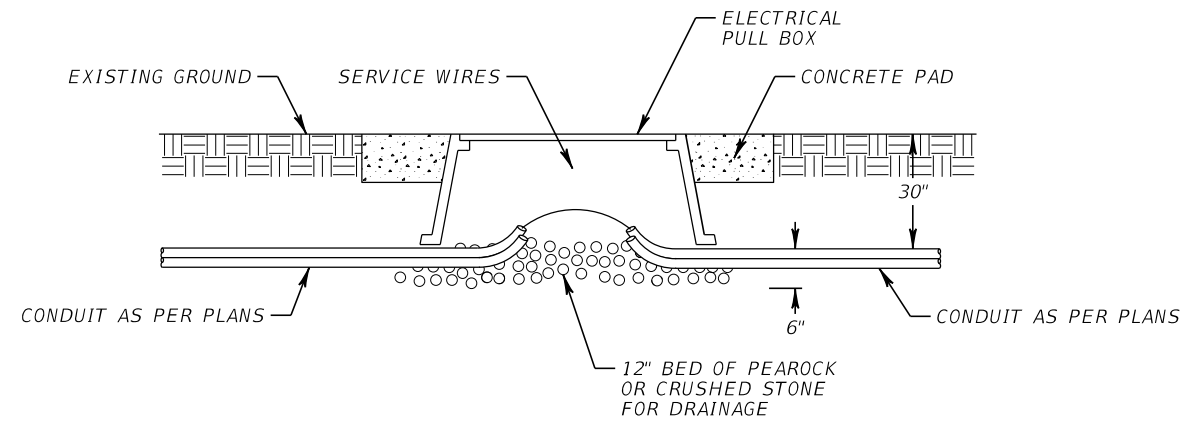
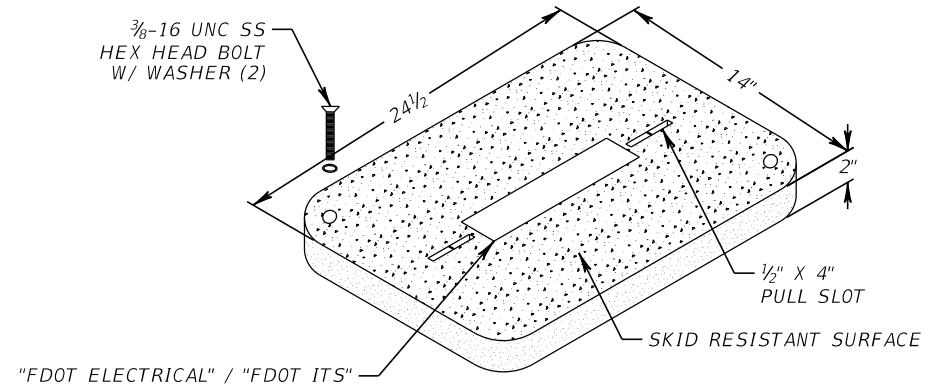
FIBER OPTIC PULL BOX NOTES:

1. FIBER OPTIC PULL BOX SHALL NOT BE INSTALLED IN ROADWAYS, DRIVEWAYS, PEDESTRIAN RAMPS, OR FLARES.
2. FIBER OPTIC PULL BOX LENGTH (LONG SIDE) SHALL BE PARALLEL TO THE CONDUIT RUN. WHEN THE CONDUIT RUN IS PERPENDICULAR AT THE JUNCTION POINT, THE PULL BOX SHALL BE PARALLEL TO THE ROADWAY.
3. SPARE FIBER OPTIC CABLE IS TO BE WOUND NEATLY AND CAREFULLY, AS NOT TO EXCEED THE MAXIMUM BENDING RADIUS OF THE FIBER OPTIC CABLE.

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PULL BOX AND CONDUIT DETAIL (1)	SHEET NO. IT-33
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 400	ORANGE	441113-1-52-01		

AECOM Technical Services, Inc.
150 North Orange Avenue, Suite 200
Orlando, FL 32801
C.A. No. 8115
Patrick Robert O'Shea, P.E. No. 81435

ELECTRICAL PULL BOX AND CONDUIT DETAILS
NTS

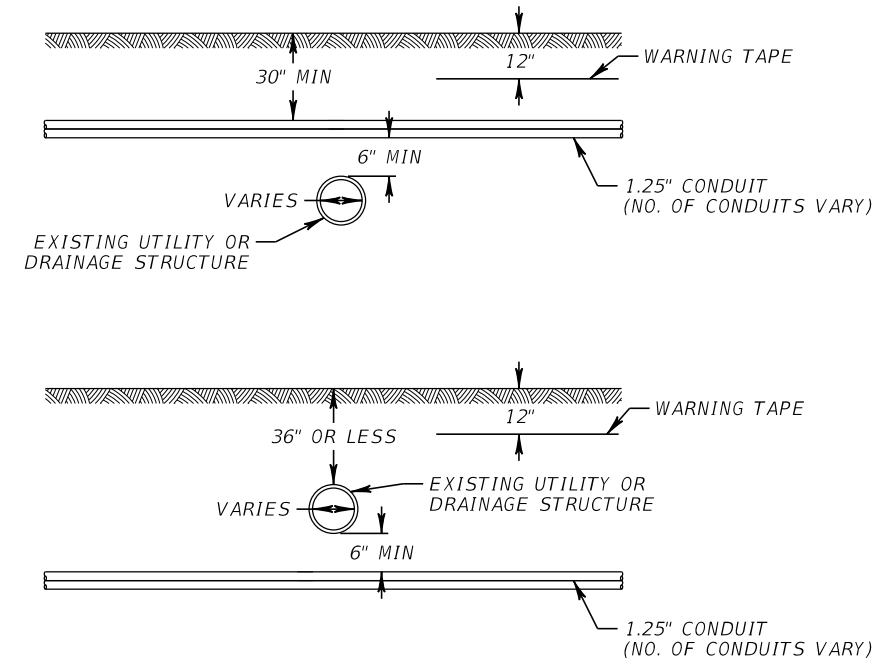
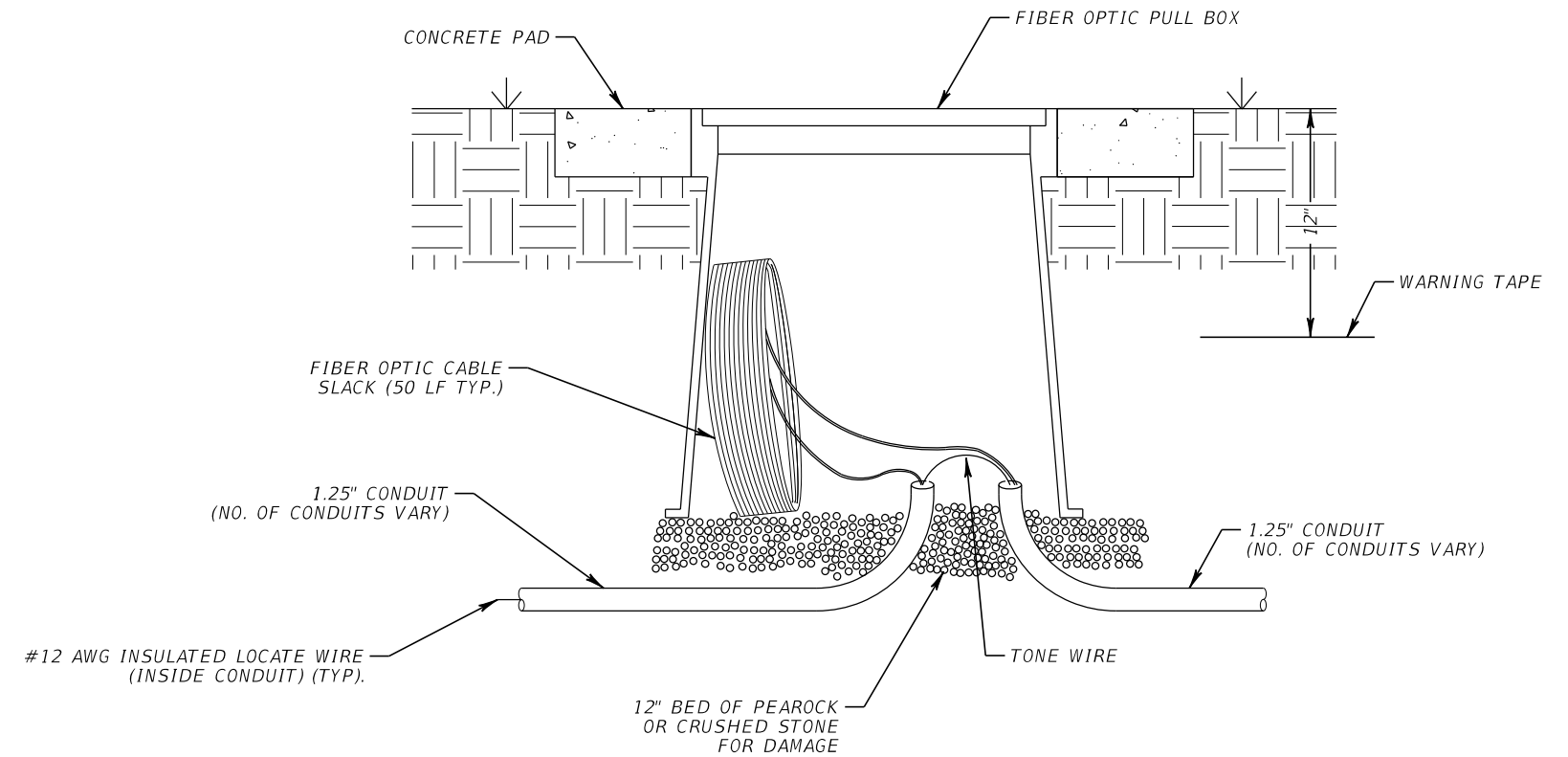
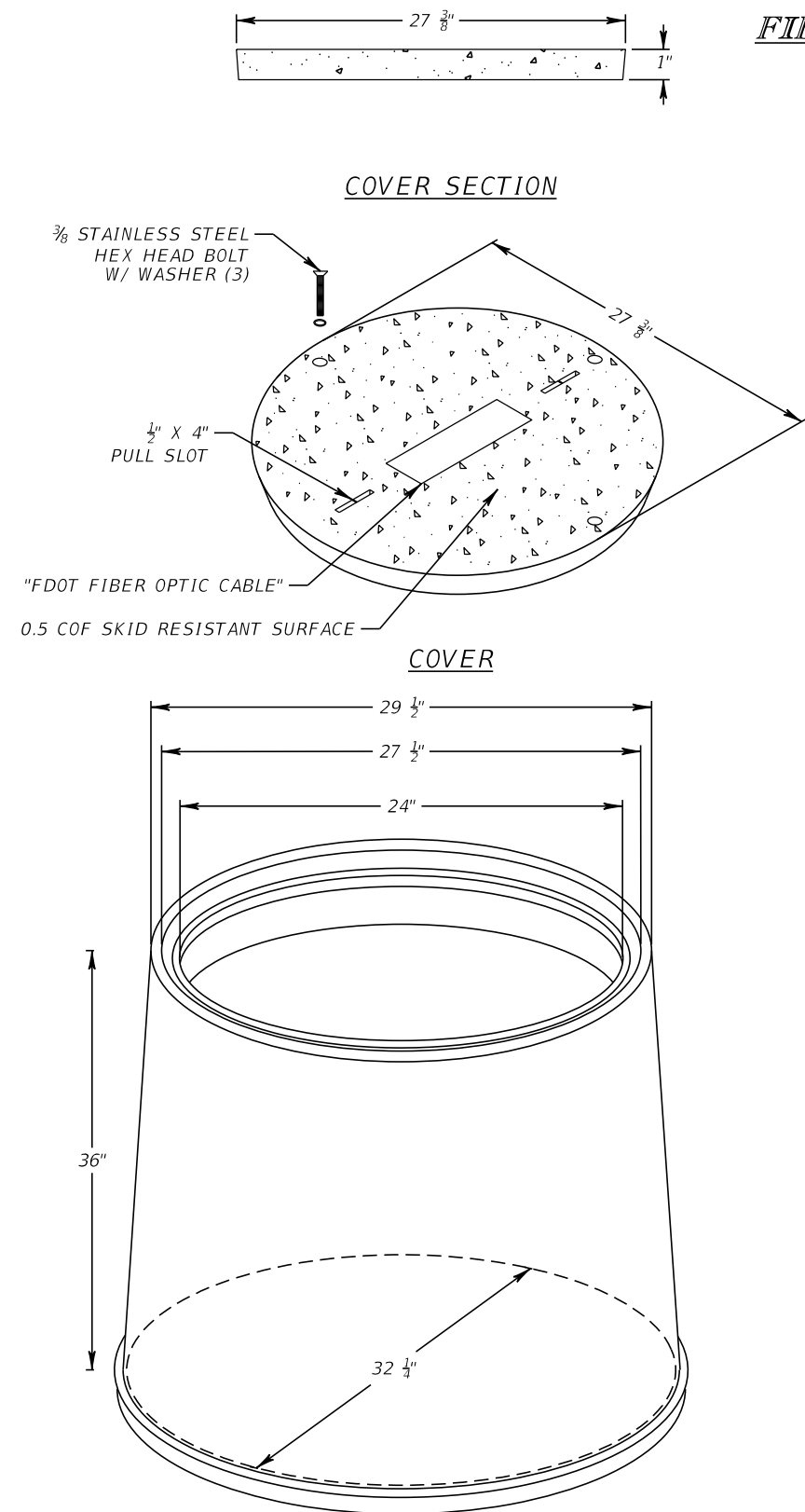


ELECTRICAL PULL BOX NOTES:

1. ELECTRICAL PULL BOX SHALL NOT BE INSTALLED IN ROADWAYS, DRIVEWAYS, PEDESTRIAN RAMPS, OR FLARES.
2. ELECTRICAL PULL BOX LENGTH (LONG SIDE) SHALL BE PARALLEL TO THE CONDUIT RUN. WHEN THE CONDUIT RUN IS PERPENDICULAR AT THE JUNCTION POINT, THE PULL BOX SHALL BE PARALLEL TO THE ROADWAY.

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PULL BOX AND CONDUIT DETAIL (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-34
					SR 400	ORANGE	441113-1-52-01		

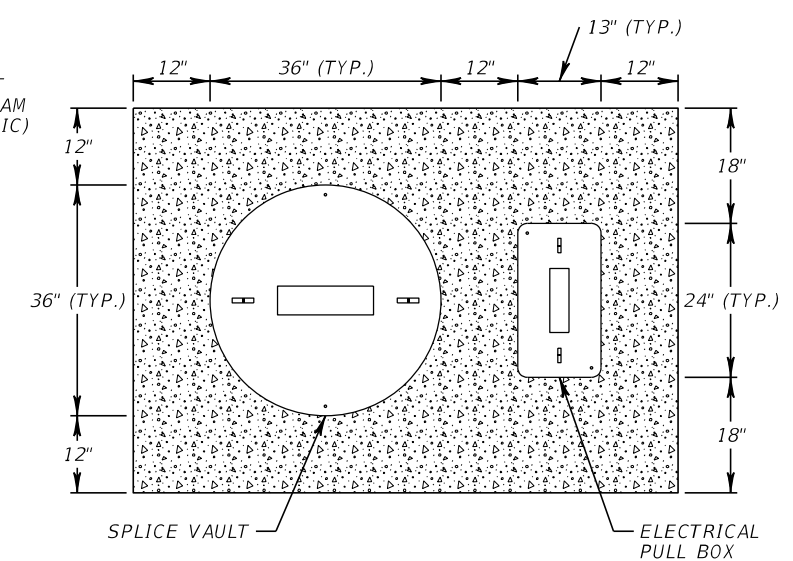
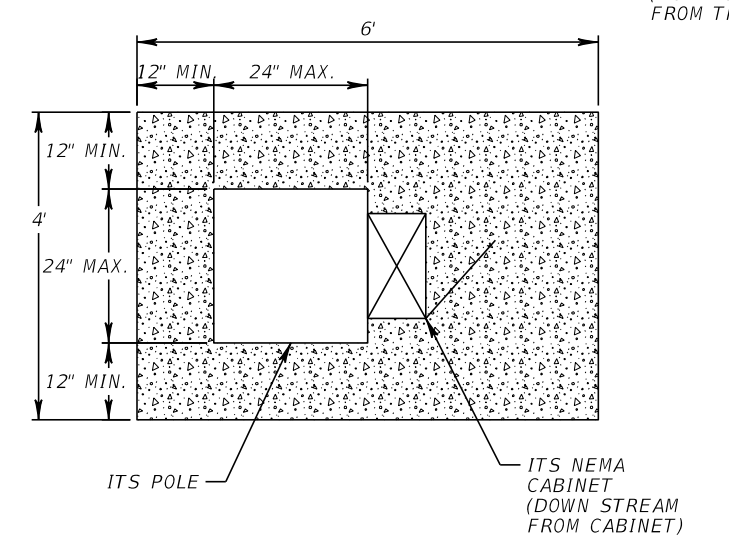
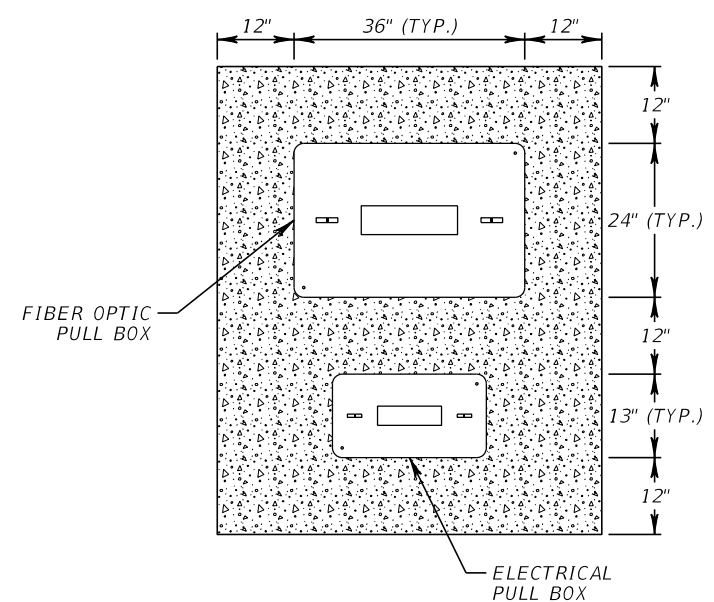
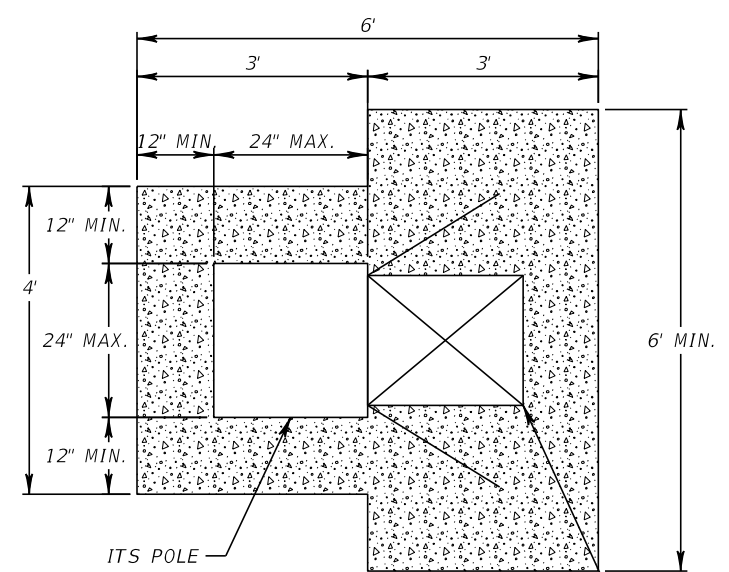
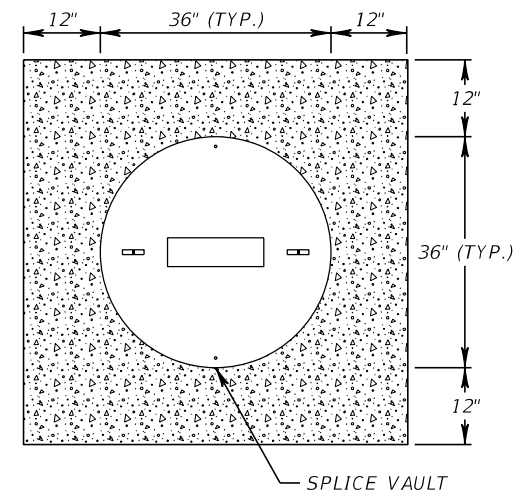
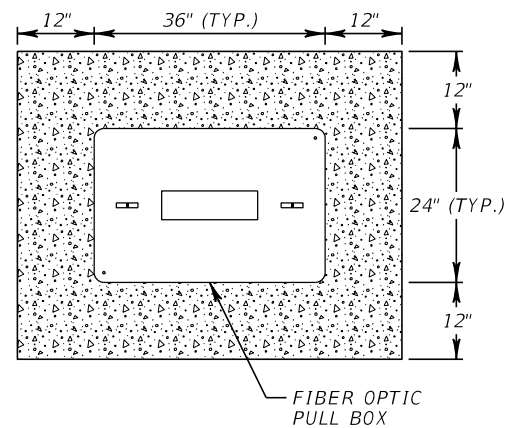
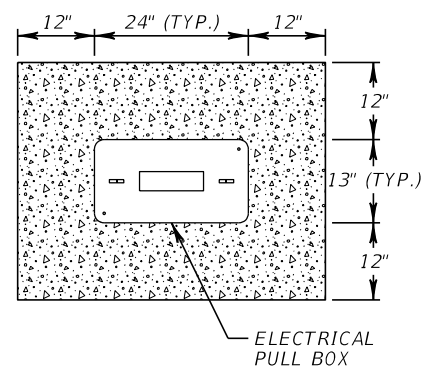
FIBER OPTIC SPLICE BOX AND CONDUIT DETAILS
NTS



FIBER OPTIC SPLICE VAULT NOTES:

1. CABLE HANGERS ARE REQUIRED FOR SLACK LOOP AND ENCLOSURE.
2. SPARE FIBER OPTIC CABLE IS TO BE WOUND NEATLY AND CAREFULLY, AS NOT TO EXCEED THE MAXIMUM BENDING RADIUS OF THE FIBER OPTIC CABLE.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

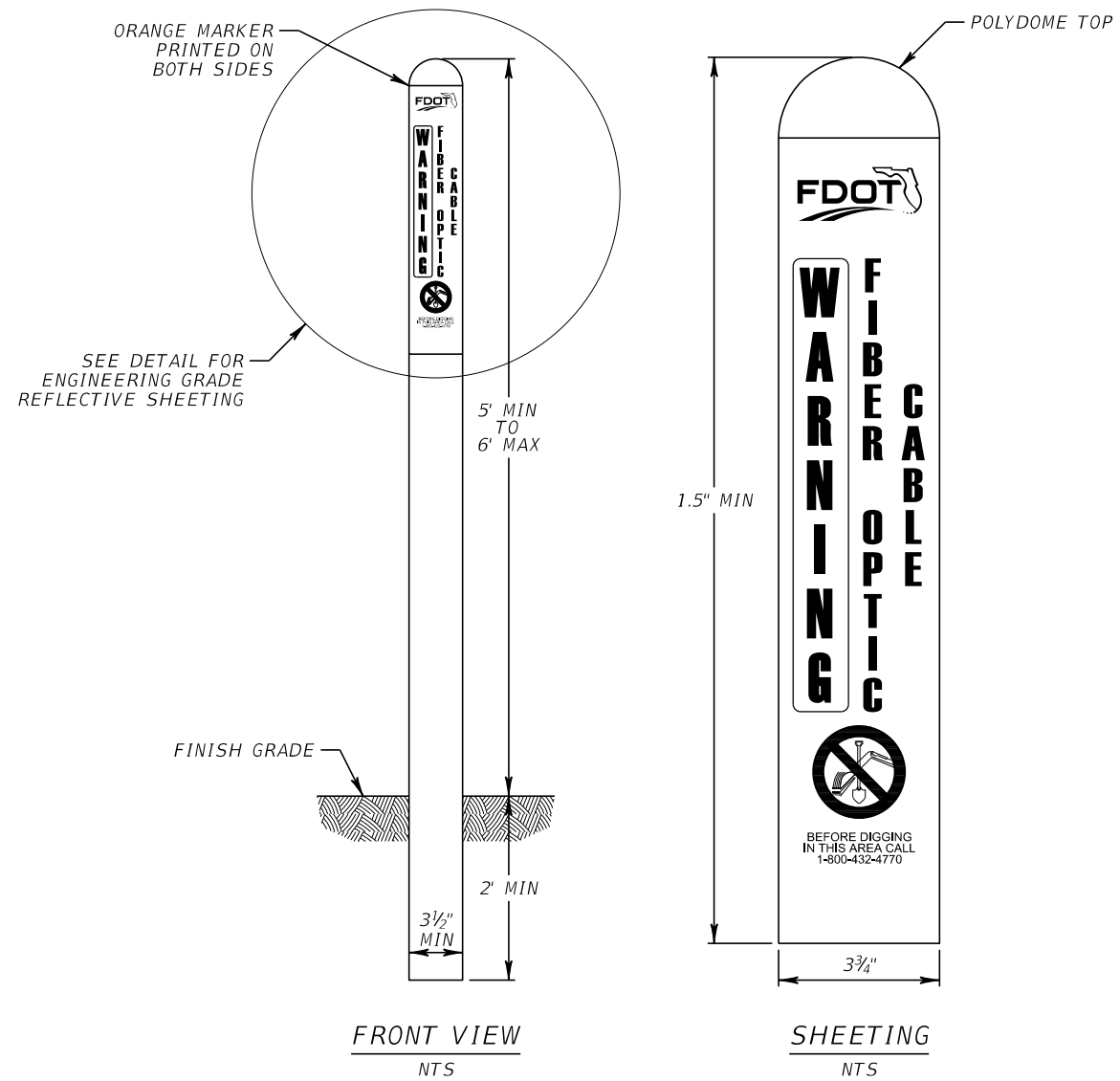


NOTES:
 1. COST OF CONCRETE PADS SHALL BE INCLUSIVE TO THE DEVICES/EQUIPMENT THAT THE PADS ARE BEING INSTALLED FOR.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		441113-1-52-01

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FIBER OPTIC CABLE ROUTE MARKER
NTS

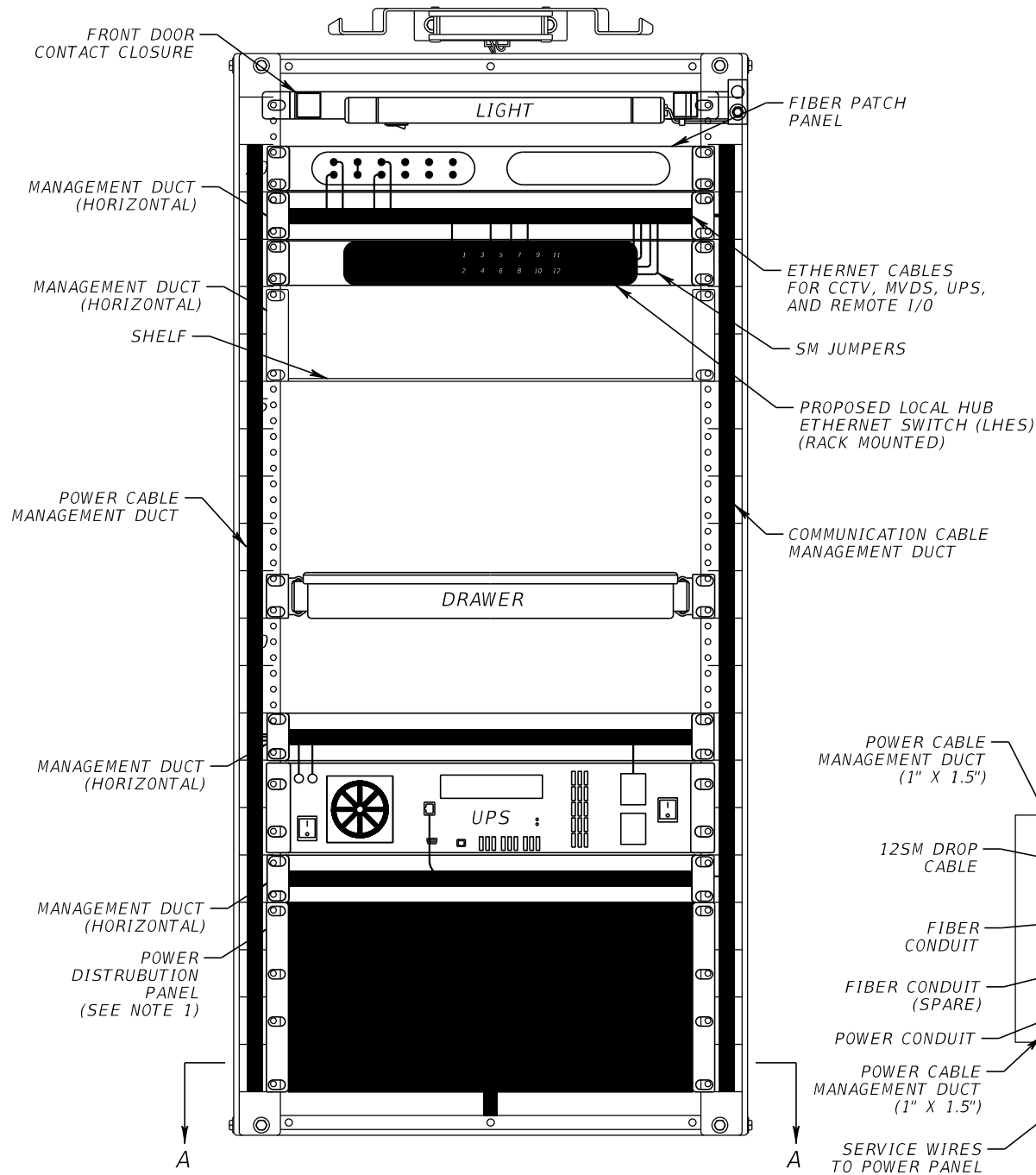


NOTES:

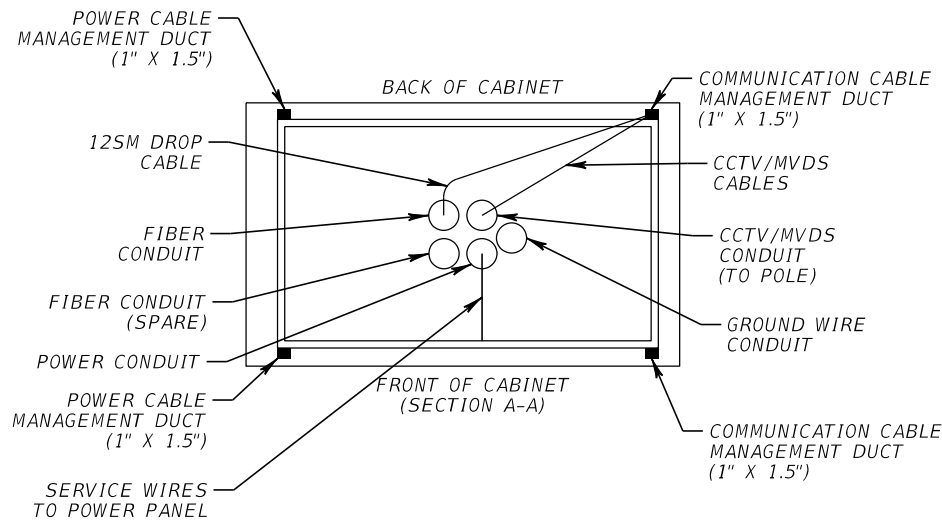
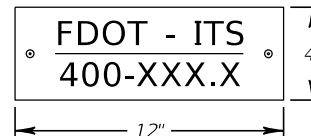
1. AN ORANGE POLYDOME TOP SHALL BE INSTALLED ON EACH MARKER.

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROUTE MARKER DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-37
					SR 400	ORANGE	441113-1-52-01		

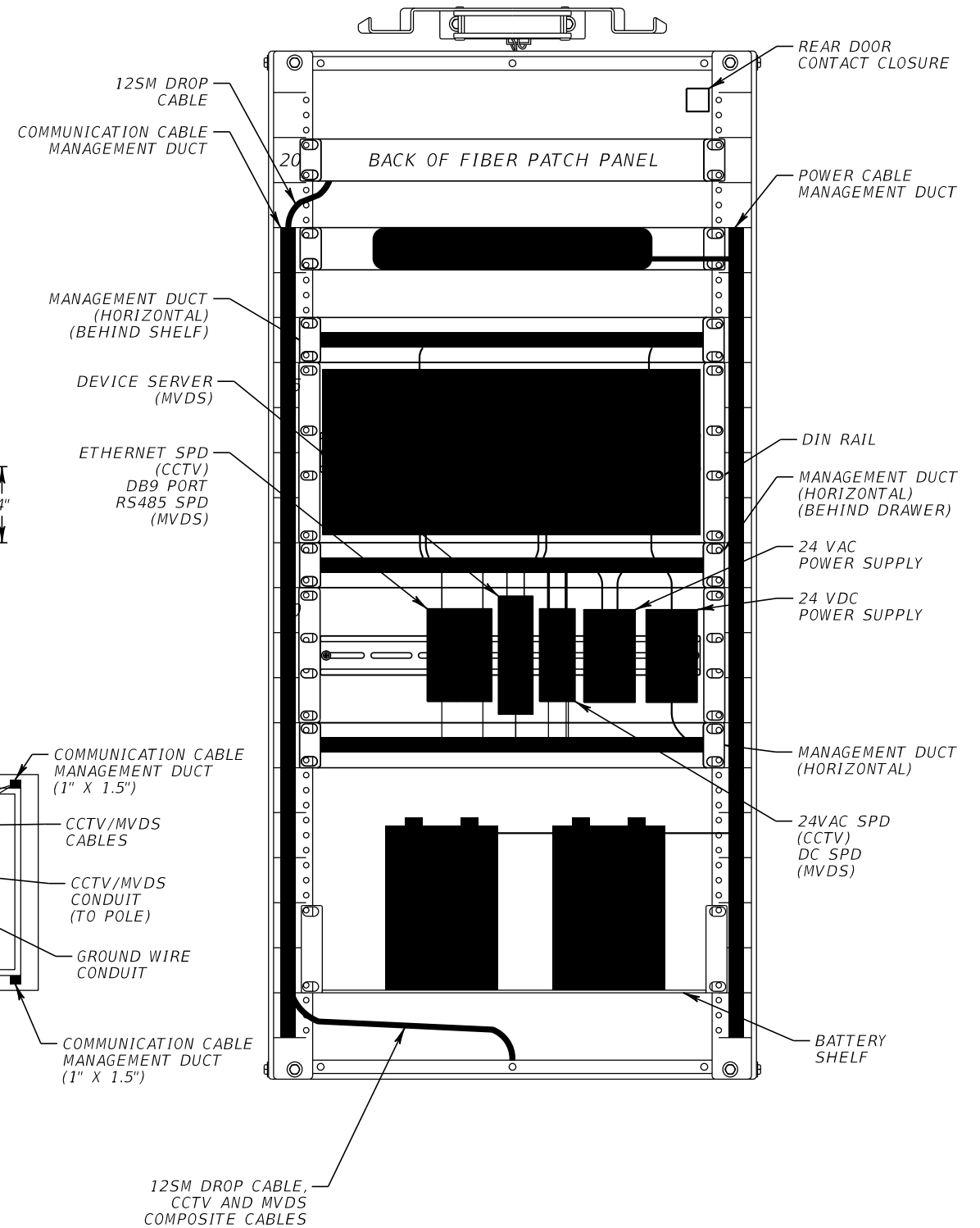
FRONT VIEW



CABINET TAG
(SEE NOTE 2 & 3)



BACK VIEW



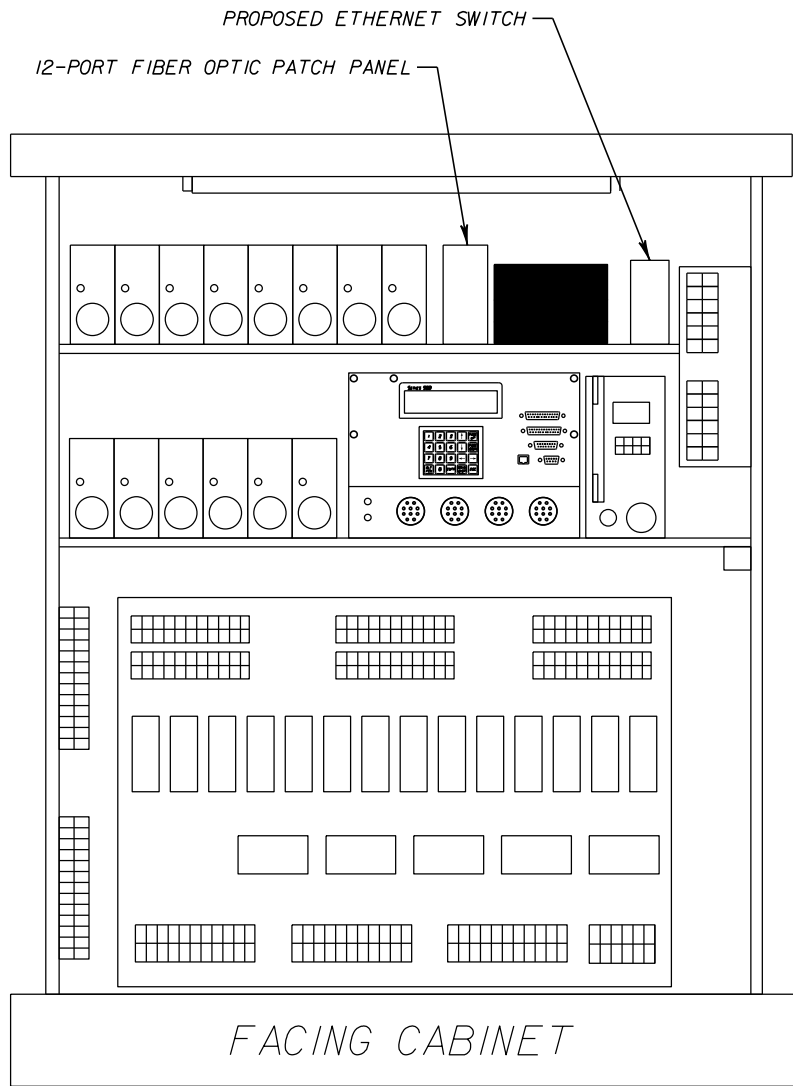
NOTES:

- SEE WIRING DIAGRAMS FOR DETAILED WIRING SCHEMATIC.
- 400-XXX.X REPRESENTS THE LHUB NUMBER OF EACH CABINET.
- CABINET IDENTIFICATION TAG SHALL BE MADE OF ALUMINUM GRADE HIGH INTENSITY PRISMATIC (HIP), GAUGE .080 WITH SQUARE CORNERS. THE TAG SHALL HAVE A GREEN BACKGROUND WITH WHITE 1 1/4" LETTERING AND SHALL BE SECURELY FASTENED TO THE CABINET IN LOCATION OPTIMAL FOR VIEWING FROM THE ROADWAY.

LHUB 400-69.7
(CCTV & MVDS)

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-38
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	

CABINET DETAILS (1)

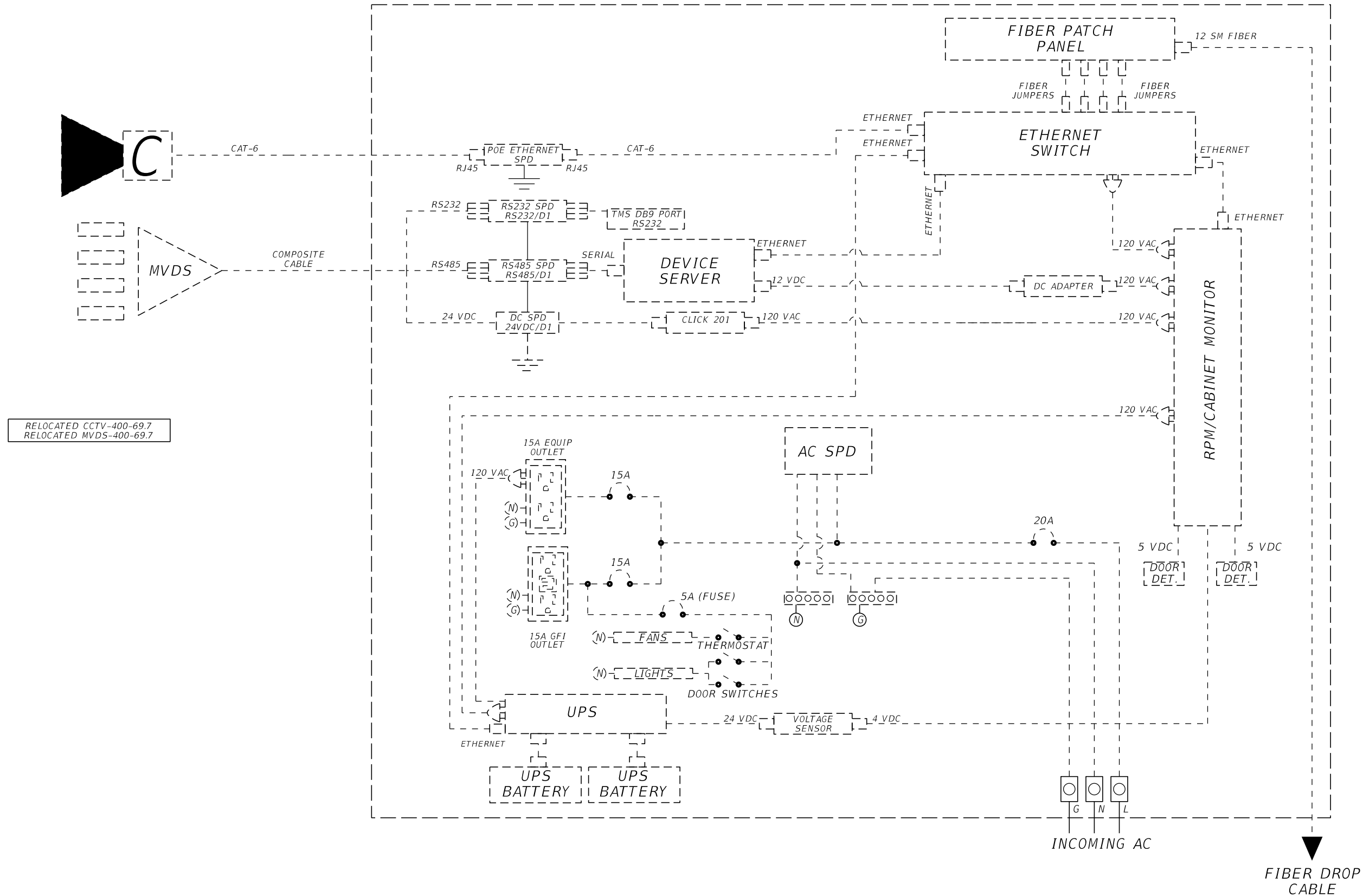


DARYL CARTER PARKWAY ROAD
TYPICAL SIGNAL CABINET

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-39
						SR 400	ORANGE		441113-1-52-01

CCTV & MVDS CONNECTION DIAGRAM

FIELD EQUIPMENT CABINET - STA. 644+16



RELOCATED CCTV-400-69.7
RELOCATED MVDS-400-69.7

REVISIONS			
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AECOM Technical Services, Inc.
150 North Orange Avenue, Suite 200
Orlando, FL 32801
C.A. No. 8115
Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

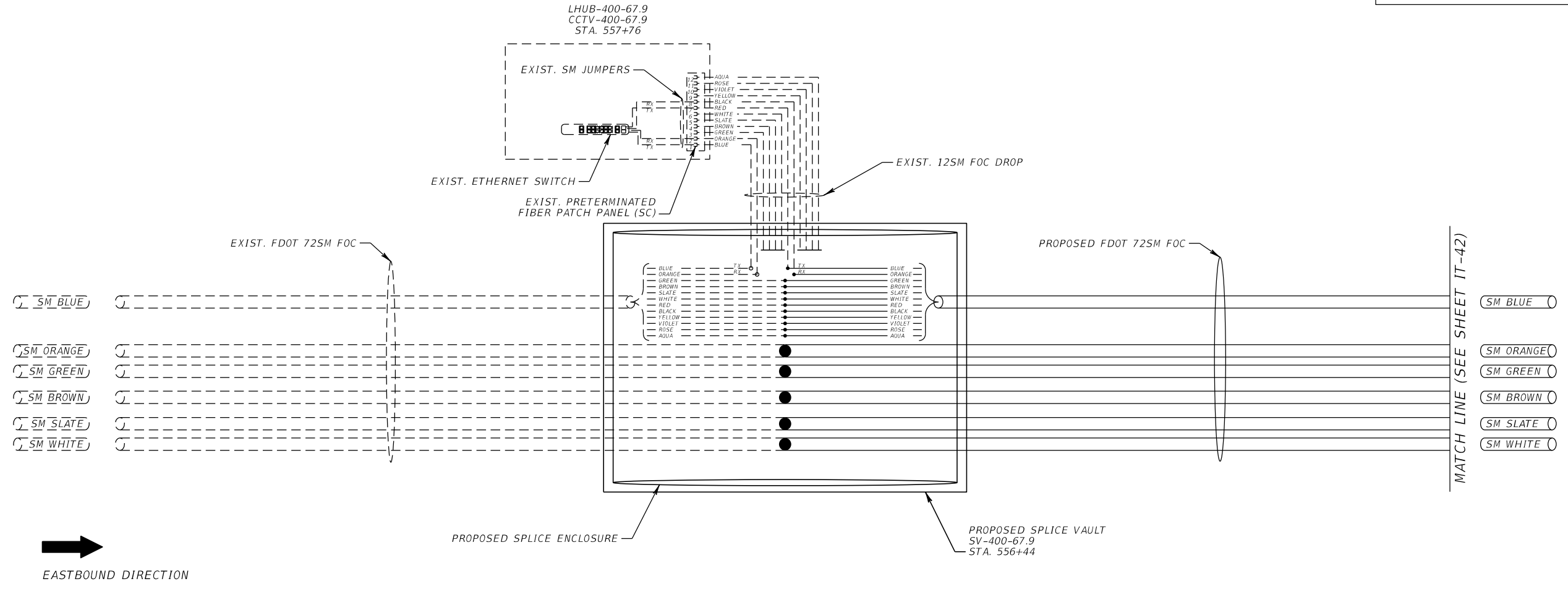
WIRING DIAGRAM

SHEET NO.
IT-40

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LEGEND

- FUSION SPLICE (ALL FIBERS IN BUFFER)
- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- × BREAK EXISTING FUSION SPLICE
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- └ UNDERMINATED FIBER
- PROPOSED FIBER
- - - EXISTING FIBER
- (SM BLUE) BUFFER TUBE
- (Ethernet Switch Icon) ETHERNET SWITCH
- (Patch Panel Icon) PRETERMINATED PATCH PANEL

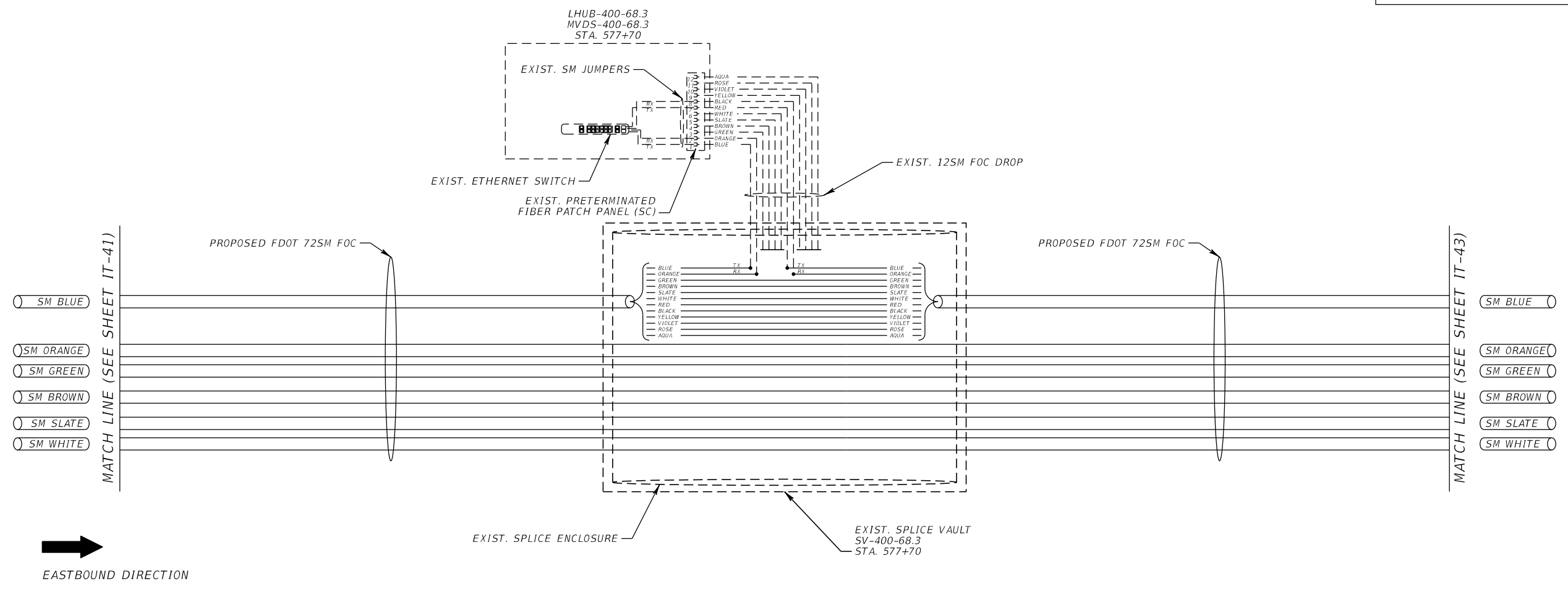


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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-41
					SR 400	ORANGE	441113-1-52-01		

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LEGEND

- FUSION SPLICE (ALL FIBERS IN BUFFER)
- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- × BREAK EXISTING FUSION SPLICE
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- └ UNDERMINATED FIBER
- PROPOSED FIBER
- - - EXISTING FIBER
- (SM BLUE) BUFFER TUBE
- ETHERNET SWITCH
- PRETERMINATED PATCH PANEL

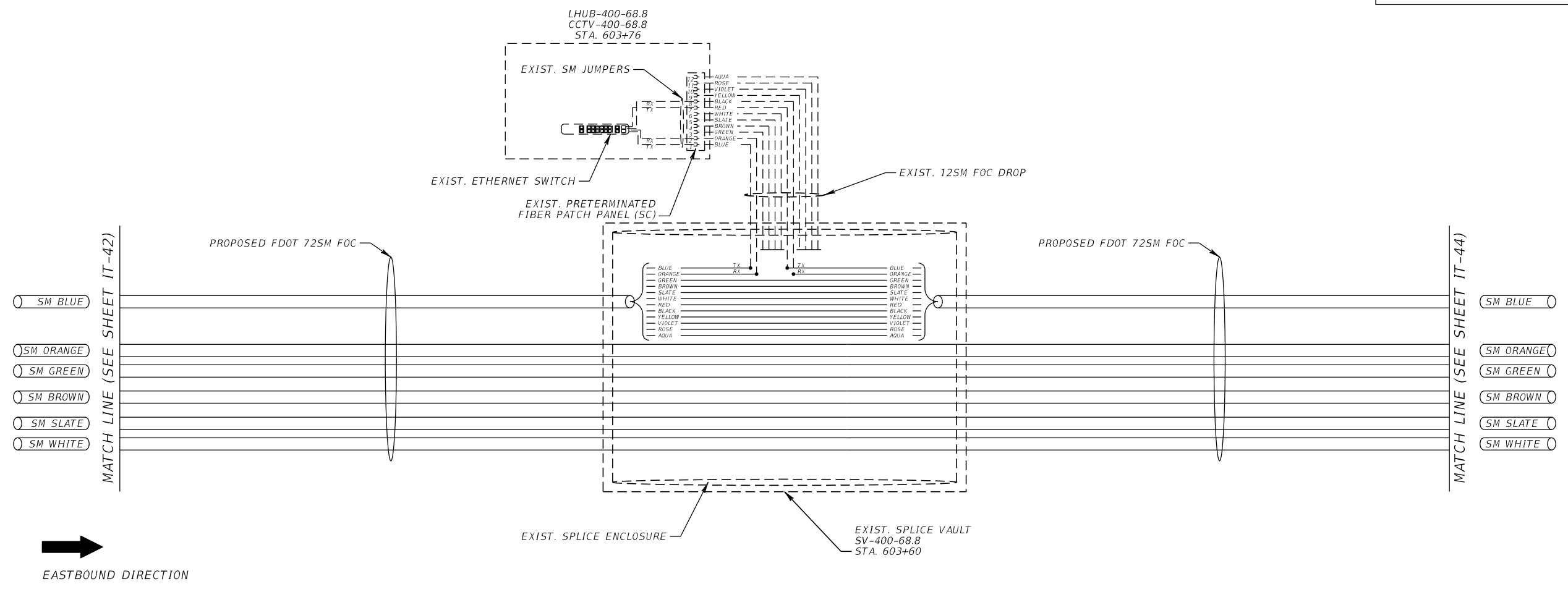


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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-42
					SR 400	ORANGE	441113-1-52-01		

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LEGEND

- FUSION SPLICE (ALL FIBERS IN BUFFER)
- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- × BREAK EXISTING FUSION SPLICE
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- └ UNDERMINATED FIBER
- PROPOSED FIBER
- - - EXISTING FIBER
- (SM BLUE) BUFFER TUBE
- (Ethernet Switch Icon) ETHERNET SWITCH
- (Patch Panel Icon) PRETERMINATED PATCH PANEL



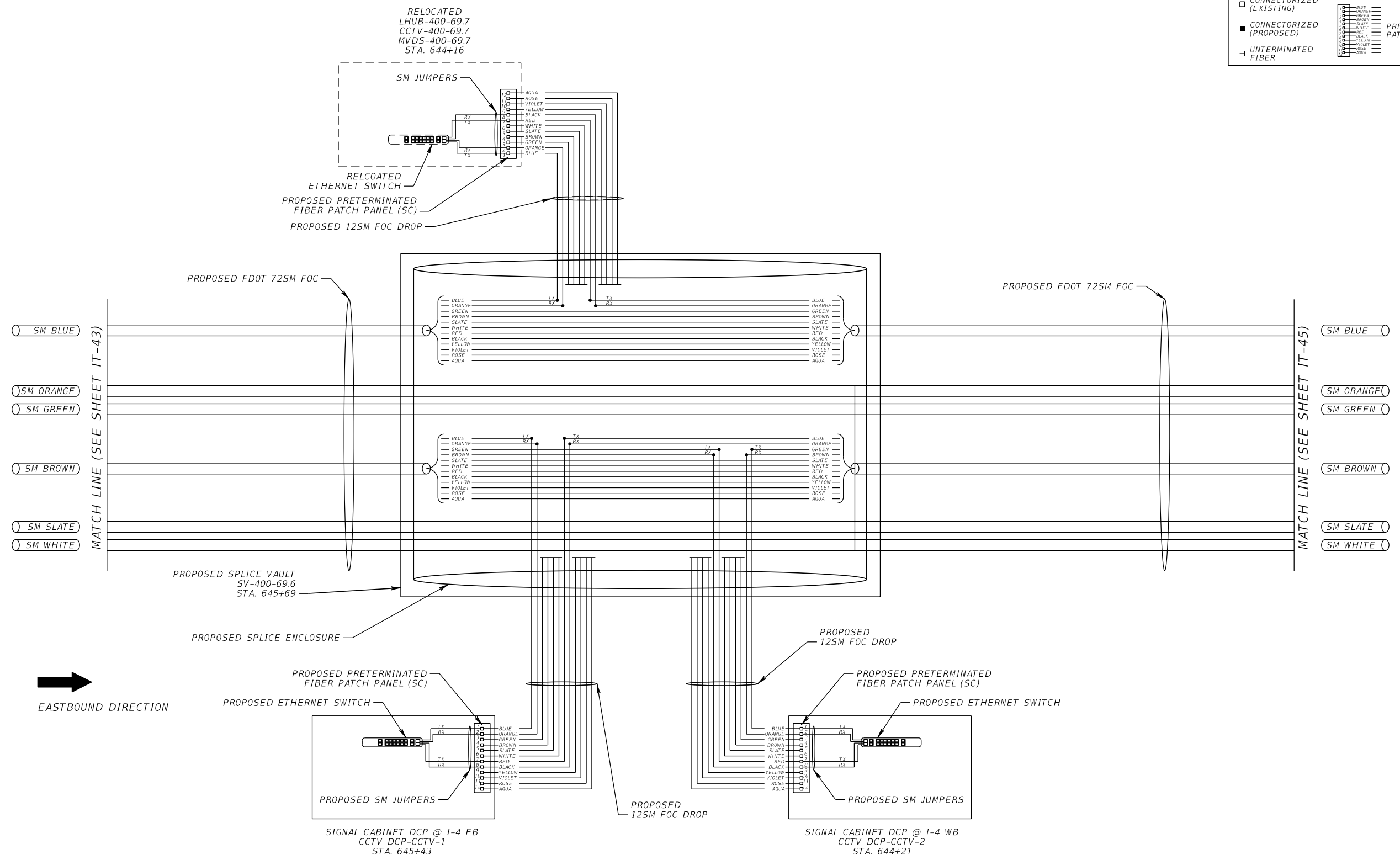
REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-43
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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SPLICING DIAGRAMS (3)

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LEGEND

- FUSION SPlice (ALL FIBERS IN BUFFER)
- FUSION SPlice (PROPOSED)
- FUSION SPlice (EXISTING)
- × BREAK EXISTING FUSION SPlice
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- └ UNDERMINATED FIBER
- PROPOSED FIBER
- - - EXISTING FIBER
- (SM BLUE) BUFFER TUBE
- (Ethernet Switch Icon) ETHERNET SWITCH
- (Patch Panel Icon) PRETERMINATED PATCH PANEL



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AECOM Technical Services, Inc.
150 North Orange Avenue, Suite 200
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C.A. No. 8115
Patrick Robert O'Shea, P.E. No. 81435

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

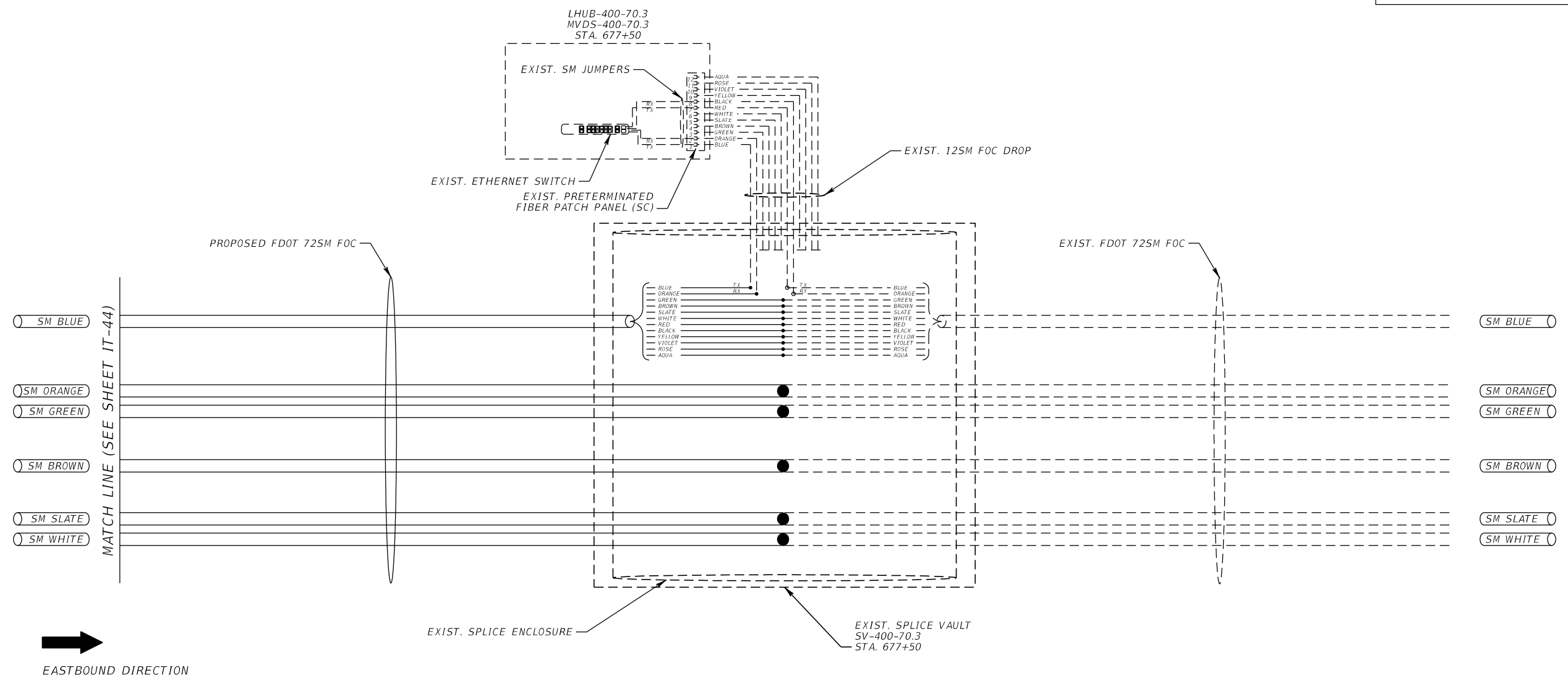
SPLICING DIAGRAMS (4)

SHEET NO.
IT-44

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LEGEND

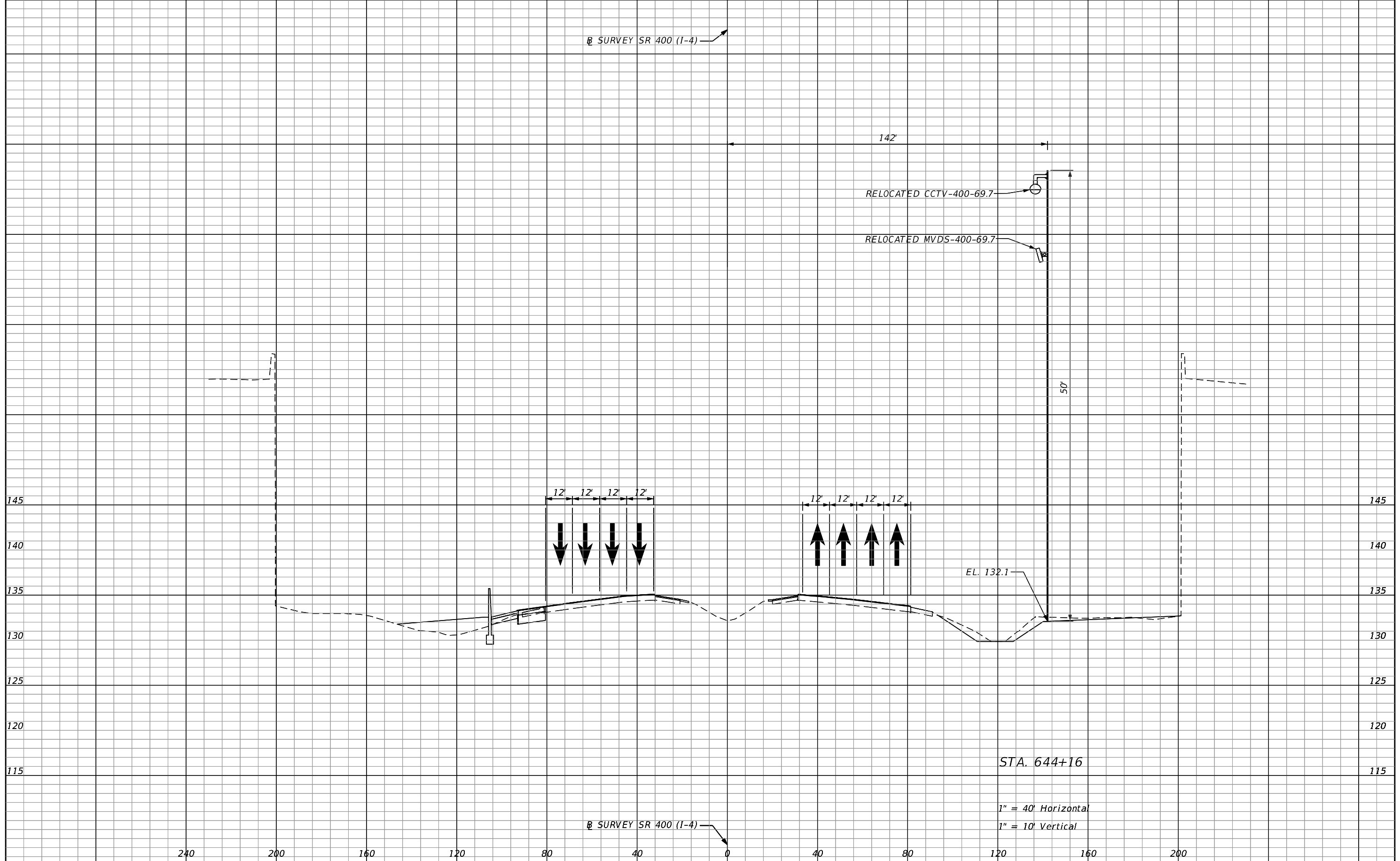
- FUSION SPLICE (ALL FIBERS IN BUFFER)
- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- × BREAK EXISTING FUSION SPLICE
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- └ UNDERMINATED FIBER
- PROPOSED FIBER
- - - EXISTING FIBER
- (SM BLUE) BUFFER TUBE
- [Ethernet Switch Symbol] ETHERNET SWITCH
- [Patch Panel Symbol] PRETERMINATED PATCH PANEL



➔ EASTBOUND DIRECTION

REVISIONS				AECOM Technical Services, Inc. 150 North Orange Avenue, Suite 200 Orlando, FL 32801 C.A. No. 8115 Patrick Robert O'Shea, P.E. No. 81435	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-45
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	

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 Orlando, FL 32801
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
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ITS CROSS SECTION

SHEET NO.
IT-46

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