

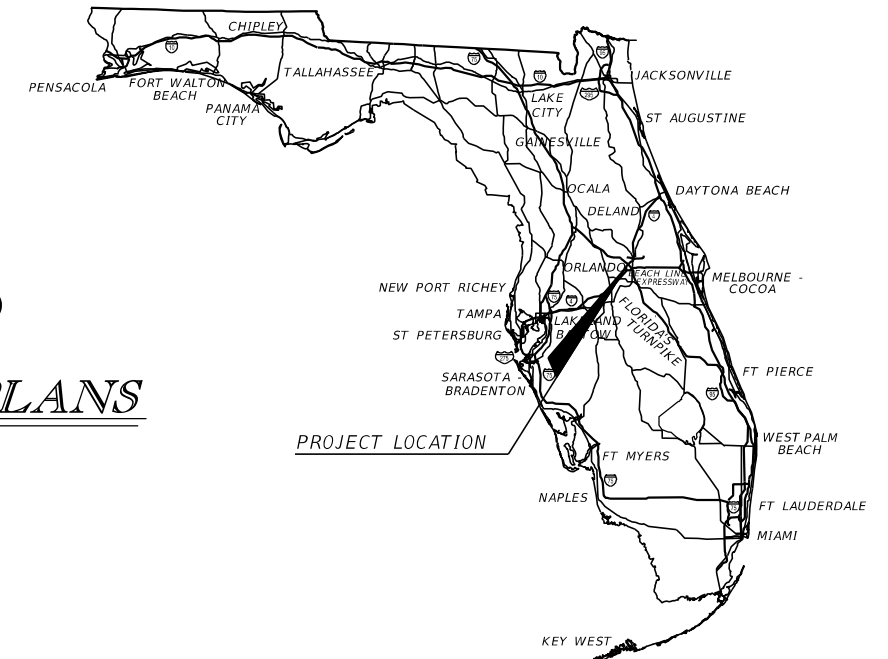
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 444315-1-52-01
(FEDERAL FUNDS)
ORANGE COUNTY (75280)

STATE ROAD NO. 400 (I-4)
FROM W. OF SR 482 (SAND LAKE RD) TO W. OF KIRKMAN RD (SR 435)

INTELLIGENT TRANSPORTATION SYSTEMS PLANS



INDEX OF ITS PLANS

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IT-6	PROJECT LAYOUT
IT-7	GENERAL NOTES
IT-8	POLE / DEVICE DATA SHEET
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IT-23 - IT-25	WWDS PLAN SHEETS
IT-26	WALK-IN DMS GM CABINET INSTALLATION DETAIL
IT-27	TADMS GM CABINET INSTALLATION DETAIL
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IT-57 - IT-61	ELECTRICAL LAYOUTS
IT-62 - IT-67	ITS CROSS SECTIONS
IT-M01 - IT-M20	ITS MOC PLANS

ITS PLANS

ENGINEER OF RECORD:
ERNEST E. SACKKEY, P.E. NO. 71730
JACOBS ENGINEERING GROUP, INC.
200 S. ORANGE AVENUE, SUITE 900
ORLANDO, FL 32801
(407) 903-5290
CONTRACT NO. C-9187
VENDOR NO. 59-0918189

FDOT PROJECT MANAGER:

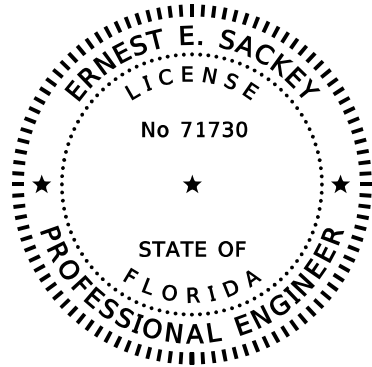
TODD HELTON, P.E.

PHASE II (60%) SUBMITTAL PLANS
MARCH 2021

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	22	IT-1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY



ON THE DATE ADJACENT TO THE SEAL
PRINTED COPIES OF THIS DOCUMENT ARE
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THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.
JACOBS ENGINEERING GROUP, INC.
200 S. ORANGE AVENUE
SUITE 900
ORLANDO, FL 32801-4322
ERNEST E. SACKEY, P.E. NO. 71730

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

ITS PLANS

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IT-M01 - IT-M20	ITS MOC PLANS

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

SIGNATURE SHEET

SHEET
NO.

IT-2

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			IT-9		IT-10		IT-11		IT-12		IT-13		IT-14		IT-15		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF																		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF																		
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS SM	LF																		
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS MM	LF																		
633-1-124	FIBER OPTIC CABLE, FURNISH & INSTALL, UNDERGROUND, 97-144 FIBERS	LF																		
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE ENCLOSURE	EA																		
633-3-13	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PRETERM CONNECTOR ASSY	EA																		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PRETERMINATED PATCH PANEL	EA																		
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA																		
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL, MVDS CABLE	LF																		
	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL, CCTV-POE CABLE	LF																		
	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL, AVI-POE CABLE	LF																		
	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL, WWDS, CAT 6 CABLE	LF																		
633-8-6	MULTI-CONDUCTOR COMMUNICATION CABLE, REMOVE	LF																		
635-2-11	PULL & SPLICE BOX, FURNISH & INSTALL, 13" X 24" COVER SIZE, ELECTRICAL	EA																		
635-2-12	PULL & SPLICE BOX, FURNISH & INSTALL, 24" X 36" COVER SIZE, FIBER PULL BOX	EA																		
635-2-13	PULL & SPLICE BOX, FURNISH & INSTALL, 30" X 60" ROUND, FO SPLICE VAULT	EA																		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		
639-2-6	ELECTRICAL SERVICE WIRE, REMOVE	LF																		
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		
639-5-23	EMERGENCY GENERATOR- PERMANENT, UP TO 25 KW, MASTER HUB LOCATION	EA																		
639-6-1	ELECTRICAL POWER SERVICE- TRANSFORMER, F&I	EA																		
641-2-12	PRESTRESSED CONCRETE POLE, FURNISH & INSTALL, TYPE P-II SERVICE POLE	EA																		
649-2-170	STEEL CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 70'	EA																		
649-2-603	STEEL CCTV POLE, REMOVE POLE- SHALLOW FOUNDATION REMOVAL, BOLT ON ATTACHMENT	EA																		
660-3-11	VEHICLE DETECTION SYSTEM-MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA																		
660-3-12	VEHICLE DETECTION SYSTEM-MICROWAVE, F & I, ABOVE GROUND EQUIPMENT	EA																		
660-6-121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA																		
660-6-122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA																		
660-7-11	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, F & I, WRONG WAY FOR EXIT RAMP, 1 OR 2 LANES	EA																		
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA																		
676-2-143	ITS CABINET, FURNISH & INSTALL, BASE MOUNT, 334, 24" W X 66" H X 30" D	EA																		
676-2-144	ITS CABINET, FURNISH & INSTALL, OTHER, 44" W X 60" H X 25" D, MASTER HUB	EA																		
676-2-400	ITS CABINET- REMOVE	EA																		
682-1-133	ITS CCTV CAMERA, F & I, DOME PTZ ENCLOSURE NON-PRESSURIZED, 1P, HIGH DEF	EA																		
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA																		
684-2-1	DEVICE SERVER, FURNISH & INSTALL	EA																		
684-90-10	NETWORK DEVICE, MANAGED HUB ETHERNET SWITCH, LAYER 3, HUB SWITCH	EA																		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA																		
685-2-1	REMOTE POWER MANAGEMENT UNIT-RPMU, FURNISH AND INSTALL	EA																		
700-6-12	HIGHLIGHTED SIGN, F&I GROUND MOUNT- AC POWERED, 12-20 SF	AS																		
700-7-132	EMBEDDED DYNAMIC MESSAGE SIGN, F & I-WITH UPS, FULL COLOR, 12-20 SF (TOLL AMOUNT DMS)	EA																		
700-8-134	EMBEDDED DYNAMIC MESSAGE SIGN, F & I-WITH UPS, FULL COLOR, 12-20 SF (LANE STATUS DMS)	EA																		
700-9-137	WALK-IN DYNAMIC MESSAGE SIGN, F & I- WITH UPS FULL, COLOR, 201-300 SF	EA																		
700-9-600	WALK-IN DYNAMIC MESSAGE SIGN, REMOVE	EA																		
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA																		

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-3
					SR 400	ORANGE	444315-1-52-01		

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL			
			IT-16		IT-17		IT-18		IT-19		IT-20		IT-21		IT-22		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF																		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF																		
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS SM	LF																		
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS MM	LF																		
633-1-124	FIBER OPTIC CABLE, FURNISH & INSTALL, UNDERGROUND, 97-144 FIBERS	LF																		
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE ENCLOSURE	EA																		
633-3-13	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PRETERM CONNECTOR ASSY	EA																		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PRETERMINATED PATCH PANEL	EA																		
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA																		
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL, MVDS CABLE	LF																		
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	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL, AVI-POE CABLE	LF																		
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635-2-13	PULL & SPLICE BOX, FURNISH & INSTALL, 30" X 60" ROUND, FO SPLICE VAULT	EA																		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		
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639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		
639-5-23	EMERGENCY GENERATOR- PERMANENT, UP TO 25 KW, MASTER HUB LOCATION	EA																		
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REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-4
					SR 400	ORANGE	444315-1-52-01		

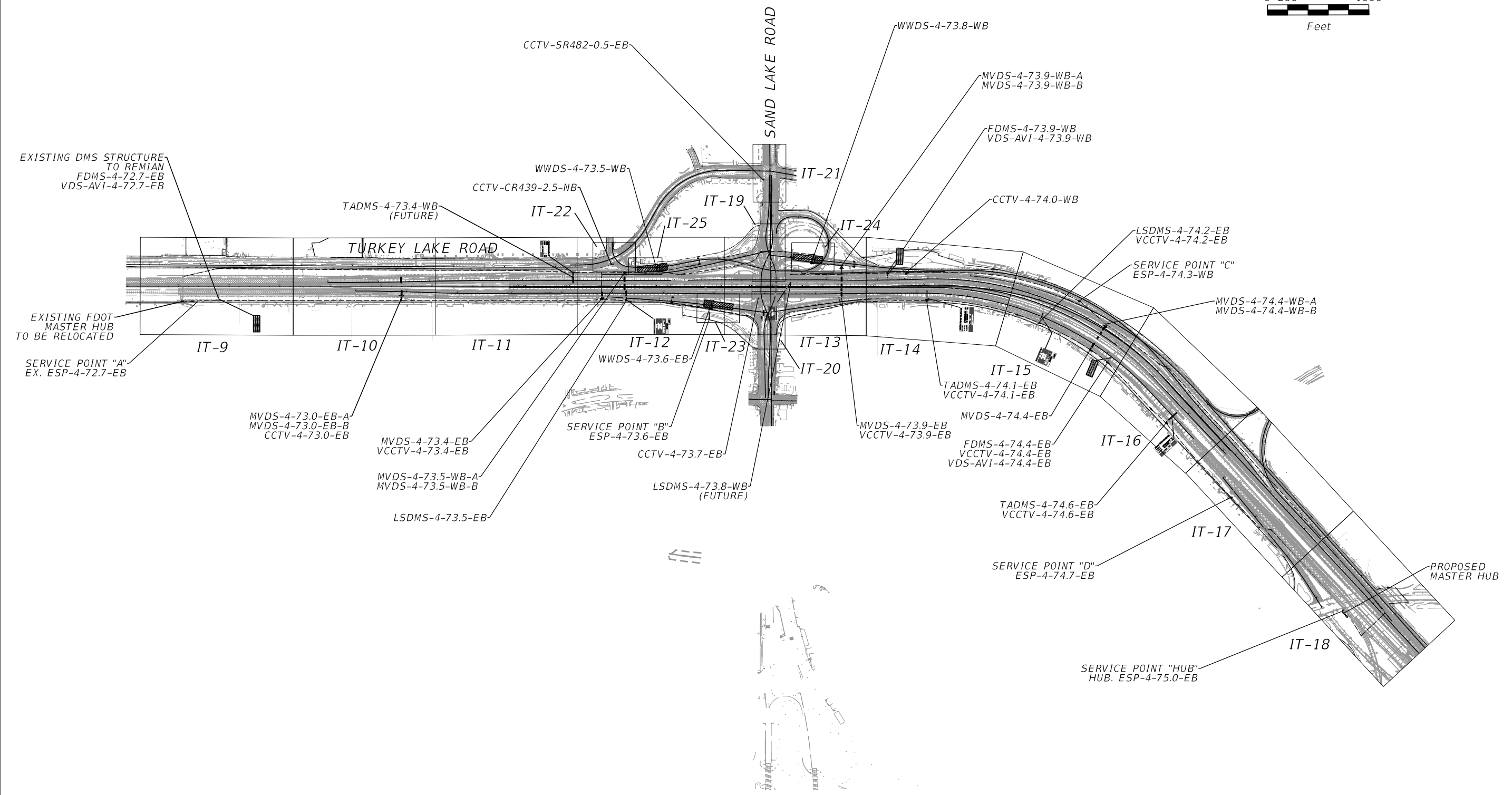
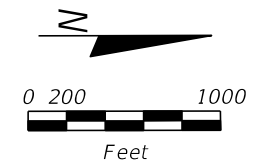
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	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL, AVI-POE CABLE	LF																		
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700-7-132	EMBEDDED DYNAMIC MESSAGE SIGN, F & I-WITH UPS, FULL COLOR, 12-20 SF (TOLL AMOUNT DMS)	EA																		
700-8-134	EMBEDDED DYNAMIC MESSAGE SIGN, F & I-WITH UPS, FULL COLOR, 12-20 SF (LANE STATUS DMS)	EA																		
700-9-137	WALK-IN DYNAMIC MESSAGE SIGN, F & I- WITH UPS FULL, COLOR, 201-300 SF	EA																		
700-9-600	WALK-IN DYNAMIC MESSAGE SIGN, REMOVE	EA																		
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA																		

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>SR 400</td> <td>ORANGE</td> <td>444315-1-52-01</td> </tr> </table>	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 400	ORANGE	444315-1-52-01	SHEET NO. TABULATION OF QUANTITIES (3) IT-5
REVISIONS																								
DATE	DESCRIPTION	DATE	DESCRIPTION																					
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																						
SR 400	ORANGE	444315-1-52-01																						

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

PROJECT LAYOUT

SHEET NO.
IT-6

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

GENERAL

1. THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT THE ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OR THE PROGRESSION OF ANY WORK SPECIFIED IN THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND PRIOR TO ANY FURTHER WORK ACTIVITY.
2. THE CONTRACTOR SHALL INSTALL A CONCRETE SERVICE PAD AT EACH CABINET LOCATION. THE SERVICE PAD SHALL PROVIDE LEVEL SURFACE FOR A TECHNICIAN TO ACCESS THE CABINET.
3. AT NO TIME WILL ANY PORTION OF THE EXISTING FDOT INTELLIGENT TRANSPORTATION SYSTEM BE OFFLINE. THE FDOT INTELLIGENT TRANSPORTATION SYSTEM SHALL BE MAINTAINED AND FUNCTIONAL FOR THE DURATION OF THE PROJECT.
4. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, JUNCTION BOXES, SERVICE POLES, ARE DIAGRAMMATIC ONLY, AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.
5. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY DIRECTIONAL BORE OR TRENCHING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE FDOT SPECIFICATIONS. THE CONTRACTOR SHALL HAND DIG THE FIRST 4' TO VERIFY POSSIBLE UTILITY CONFLICT.
6. EXISTING CONDUIT IN SHOULDER TO BE DISPOSED.
7. ALL REMOVED ITS EQUIPMENT SHALL BE DELIVERED TO FDOT - DISTRICT 5, 719 S WOODLAND BLVD, DELAND, FL 32720.

ABBREVIATIONS:

AC = ALTERNATING CURRENT
 ASSY = ASSEMBLY
 AVI = AUTOMATIC VEHICLE IDENTIFICATION
 AWG = AMERICAN WIRE GAUGE
 CAB = CABINET
 CCTV = CLOSED CIRCUIT TELEVISION CAMERA
 CKT = CIRCUIT
 CONN = CONNECTION
 DC = DIRECT CURRENT
 DMS = DYNAMIC MESSAGE SIGN
 EB = EASTBOUND
 EDMS = EXPRESSWAY DYNAMIC MESSAGE SIGN
 ELEC = ELECTRICAL
 ELMS = EXPRESS LANES MANAGEMENT SYSTEM
 EPB = ELECTRIC PULL BOX
 EQUIP = EQUIPMENT
 FDOT = FLORIDA DEPARTMENT OF TRANSPORTATION
 FO = FIBER OPTIC
 FOC = FIBER OPTIC CABLE
 FDMS = FREEWAY DYNAMIC MESSAGE SIGN
 GFCI = GROUND FAULT CIRCUIT INTERRUPTER
 GF1 = GROUND FAULT INTERRUPTER
 GM = GROUND MOUNT
 GND = GROUND
 GUL = GENERAL USE LANE
 HDPE = HIGH DENSITY POLY ETHYLENE
 ITS = INTELLIGENT TRANSPORTATION SYSTEMS
 LSDMS = LANE STATUS DYNAMIC MESSAGE SIGN
 MFES = MANAGED FIELD ETHERNET SWITCH
 MM = MULTI MODE
 MNT = MOUNT
 MVDS = MICROWAVE VEHICLE DETECTION SYSTEM
 NB = NORTHBOUND
 NTS = NOT TO SCALE
 POE = POWER OVER ETHER NET
 PRETERM = PRETERMINATED
 RGS = RIGID GALVANISED STEEL
 RPMU = REMOTE POWER MANAGEMNET UNIT
 SB = SOUTHBOUND
 SDMS = STATUS TOLL DYNAMIC MESSAGE SIGN
 SM = SINGLE MODE
 SPD= SURGE PROTECTIVE DEVICE
 SV = SPLICE VAULT
 TADMS = TOLL AMOUNT DYNAMIC MESSAGE SIGN
 TDMS = TOLL EMBEDDED DYNAMIC MESSAGE SIGN
 UPS = UNINTERRUPTIBLE POWER SUPPLY
 VCCTV = VERIFICATION CLOSED CIRCUIT TELEVISION CAMERA
 MVDS = MICROWAVE VEHICLE DETECTION SYSTEM
 WB = WESTBOUND
 WWDS = WRONG WAY DRIVING SYSTEM

LEGEND:

	PROPOSED CONDUIT (OPEN TRENCH)		EXISTING SURVEILLANCE CCTV
	PROPOSED CONDUIT (DIRECTIONAL BORE)		EXISTING VERIFICATION CCTV
	PROPOSED AVI		EXISTING GUL MVDS
	PROPOSED GROUND MOUNT CABINET		EXISTING EXPRESS LANES MVDS
	PROPOSED POLE MOUNT CABINET		EXISTING EXPRESS DMS
	PROPOSED CCTV CAMERA		EXISTING FREEWAY DMS
	PROPOSED ELECTRICAL PULL BOX		EXISTING STATUS TOLL DMS
	PROPOSED FIBER OPTIC PULL BOX		EXISTING TOLL EMBEDDED DMS
	PROPOSED SPLICE VAULT		EXISTING ELECTRICAL SERVICE
	PROPOSED MVDS		EXISTING OPEN TRENCH CONDUIT
	PROPOSED LOAD CENTER		EXISTING DIRECTIONAL BORE CONDUIT
	PROPOSED OVERHEAD SIGN		EXISTING ABOVE GROUND CONDUIT
	PROPOSED STEEL POLE		EXISTING BRIDGE MOUNT CONDUIT
	PROPOSED MASTER HUB		EXISTING GAS MAIN
	PROPOSED GENERATOR		EXISTING BURIED ELECTRIC
	PROPOSED MVDS DETECTION ZONE		EXISTING OVERHEAD ELECTRIC
	PROPOSED WRONG WAY SIGN STRUCTURE		EXISTING BURIED TELEPHONE
	EXISTING OVERHEAD SIGN		EXISTING WATER MAIN
	EXISTING STEEL POLE		WORK AREA
	EXISTING ELECTRICAL POLE		TEMPORARY PAVEMENT (SHOULDER OVERLAY)
	EXISTING ELECTRICAL PULL BOX (UNDERGROUND)		DETECTION ZONE, WWDS
	EXISTING ITS PULL BOX (UNDERGROUND)		VERIFICATION ZONE, WWDS
	EXISTING BARRIER ELECTRICAL PULL BOX		
	EXISTING BARRIER ITS PULL BOX		
	EXISTING FIBER OPTIC SPLICE VAULT		
	EXISTING FIBER OPTIC PULL BOX		
	EXISTING GROUND MOUNT CABINET		
	EXISTING POLE MOUNT CABINET		
	EXISTING NEMA CABINET		
	EXISTING MASTER HUB		
	EXISTING GENERATOR		
	EXISTING LOAD CENTER		

NOTES TO REVIEWER

THE ELECTRICAL DESIGN SHOWN HERE IS PRELIMINARY AND IS FOR INFORMATION ONLY TO SHOW PROGRESS TOWARDS PHASE III PLANS

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. GENERAL NOTES IT-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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ITS POLE DATA

ITS POLE NO.	STATION	OFFSET	DEVICES ON POLE	POLE TYPE	POLE LENGTH (FT)	POLE HEIGHT (FT)	BURIAL DEPTH (FT)
POLE-4-73.0-EB	817+00	106' RT	CCTV, 2 MVDS	STEEL CCTV POLE			
POLE-4-73.4-EB	7198+96	53' RT	VCCTV, MVDS	STEEL CCTV POLE			
POLE-4-73.5-WB	7201+18	204' LT	2 MVDS	STEEL CCTV POLE			
POLE-4-73.9-EB	7222+58	41' RT	MVDS, VCCTV	STEEL CCTV POLE			
POLE-4-73.9-WB	7222+58	284' LT	2 MVDS	STEEL CCTV POLE			
POLE-4-74.0-WB	7228+92	200' LT	CCTV	STEEL CCTV POLE			
POLE-4-74.4-EB	7248+40	65' RT	MVDS	STEEL CCTV POLE			
POLE-4-74.4-WB	7248+40	230' LT	2 MVDS	STEEL CCTV POLE			

CCTV DEVICE DATA

CCTV DEVICE NO.	STATION	SIDE	POLE NUMBER
CCTV-4-73.0-EB	817+00	106' RT	POLE-4-73.0-EB
CCTV-4-74.0-WB	7228+92	200' LT	POLE-4-74.0-EB
CCTV-CR439-2.5-NB	5637+44	57' RT	ON SIGNAL ARM
CCTV-SR482-0.5-EB	101+32	88' RT	ON SIGNAL ARM
CCTV-4-73.7-EB	7214+35	43' RT	ON SIGNAL ARM
VCCTV-4-73.4-EB	7198+96	53' RT	POLE-4-73.4-EB
VCCTV-4-73.9-EB	7222+58	41' RT	POLE-4-73.9-EB
VCCTV-4-74.1-EB	7231+00	65' RT	ON SIGN STRUCTURE
VCCTV-4-74.2-EB	7242+60	65' RT	ON SIGN STRUCTURE
VCCTV-4-74.4-EB	7250+60	65' RT	ON SIGN STRUCTURE
VCCTV-4-74.6-EB	7259+00	87' RT	ON SIGN STRUCTURE

MVDS DEVICE DATA

MMVDS DEVICE NO.	STATION	SIDE	COVERAGE	POLE NUMBER
MVDS-4-73.0-EB-A	817+00	106' RT	EB	POLE-4-73.0-EB
MVDS-4-73.4-EB	7198+96	53' RT		POLE-4-73.4-EB
MVDS-4-73.9-EB	7222+58	41' RT		POLE-4-73.9-EB
MVDS-4-74.4-EB	7248+40	65' RT		POLE-4-74.4-EB
MVDS-4-73.0-EB-B	817+00	106' RT	WB	POLE-4-73.0-EB
MVDS-4-73.5-WB-A	7201+18	204' LT		POLE-4-73.5-WB
MVDS-4-73.9-WB-A	7222+58	284' LT		POLE-4-73.9-WB
MVDS-4-74.4-WB-A	7248+40	230' LT		POLE-4-74.4-WB
MVDS-4-73.5-WB-B	7201+18	204' LT	EL	POLE-4-73.5-WB
MVDS-4-73.9-WB-B	7222+58	284' LT		POLE-4-73.9-WB
MVDS-4-74.4-WB-B	7248+40	230' LT		POLE-4-74.4-WB

DMS LOCATIONS

DMS	STATION	SIDE
FDMS-4-72.7-EB	798+97	116' RT
TADMS-4-73.4-WB (FUTURE)	7196+09	202' LT
LSDMS-4-73.5-EB	7201+33	65' RT
LSDMS-4-73.8-WB (FUTURE)	7217+59	109' LT
FDMS-4-73.9-WB	7227+10	196' LT
TADMS-4-74.1-EB	7231+00	65' RT
LSDMS-4-74.2-EB	7242+60	65' RT
FDMS-4-74.4-EB	7250+60	65' RT
TADMS-4-74.6-EB	7259+00	87' RT

SERVICE POINT LOCATIONS

SERVICE POINTS	STATION	SIDE	PLAN SHEET
EX. ESP-4-72.7-EB	796+86	141' RT	IT-9
ESP-4-73.6-EB	7209+52	243' RT	IT-12
ESP-4-74.3-WB	7245+40	295' LT	IT-15
ESP-4-74.7-EB	907+85	316' RT	IT-17
HUB. ESP-4-75.0-EB	923+60	275' RT	IT-18

VDS-AVI DEVICE DATA

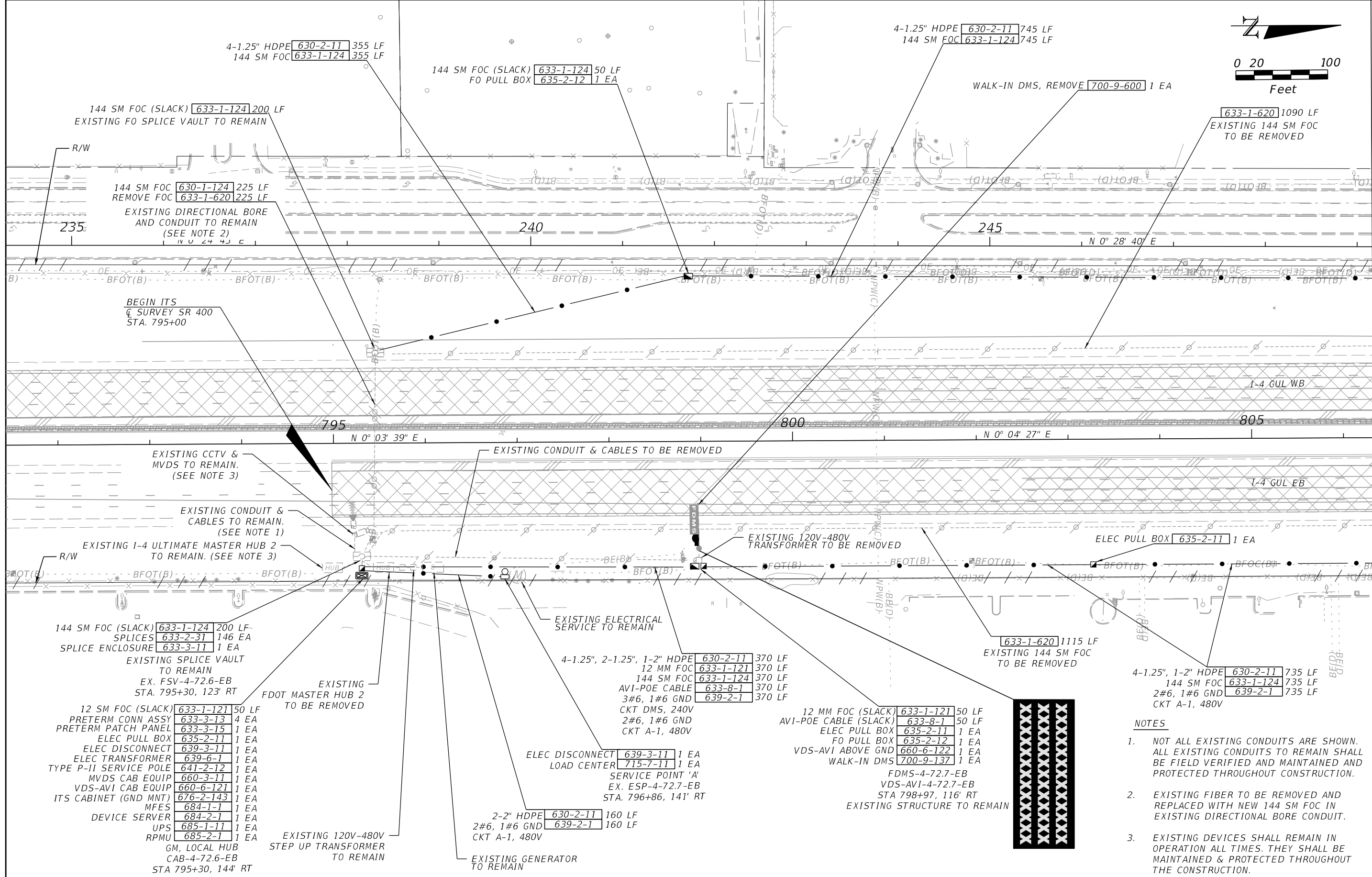
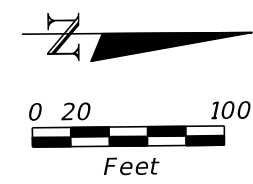
VDS-AVI DEVICE NO.	STATION	SIDE	POLE NUMBER
VDS-AVI-4-72.7-EB	798+70	116' RT	DMS SIGN TRUSS
VDS-AVI-4-73.9-WB	7227+10	196' LT	DMS SIGN TRUSS
VDS-AVI-4-74.4-EB	7250+60	65' RT	DMS SIGN TRUSS

WWDS LOCAL HUB DATA

WWDS LOCAL HUB	STATION	SIDE	SHEET
WWDS-4-73.6-EB	7209+65	153' RT	IT-23
WWDS-4-73.5-WB	7204+40	213' LT	IT-24
WWDS-4-73.8-WB	7219+60	299' LT	IT-25

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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MATCH LINE 806+32.46
SEE ITS PLAN (2)

- 144 SM FOC (SLACK) 633-1-124 200 LF
- SPLICES 633-2-31 146 EA
- SPLICE ENCLOSURE 633-3-11 1 EA
- EXISTING SPLICE VAULT TO REMAIN
- EX. FSV-4-72.6-EB STA. 795+30, 123' RT
- 12 SM FOC (SLACK) 633-1-121 50 LF
- PRETERM CONN ASSY 633-3-13 4 EA
- PRETERM PATCH PANEL 633-3-15 1 EA
- ELEC PULL BOX 635-2-11 1 EA
- ELEC DISCONNECT 639-3-11 1 EA
- ELEC TRANSFORMER 639-6-1 1 EA
- TYPE P-II SERVICE POLE 641-2-12 1 EA
- MVDS CAB EQUIP 660-3-11 1 EA
- VDS-AVI CAB EQUIP 660-6-121 1 EA
- ITS CABINET (GND MNT) 676-2-143 1 EA
- MFES 684-1-1 1 EA
- DEVICE SERVER 684-2-1 1 EA
- UPS 685-1-11 1 EA
- RPMU 685-2-1 1 EA
- GM, LOCAL HUB CAB-4-72.6-EB STA 795+30, 144' RT

EXISTING FDOT MASTER HUB 2 TO BE REMOVED

EXISTING 120V-480V STEP UP TRANSFORMER TO REMAIN

2-2" HDPE 630-2-11 160 LF

2#6, 1#6 GND 639-2-1 160 LF

CKT A-1, 480V

ELEC DISCONNECT 639-3-11 1 EA

LOAD CENTER 715-7-11 1 EA

SERVICE POINT 'A'

EX. ESP-4-72.7-EB STA. 796+86, 141' RT

4-1.25", 2-1.25", 1-2" HDPE 630-2-11 370 LF

12 MM FOC 633-1-121 370 LF

144 SM FOC 633-1-124 370 LF

AVI-POE CABLE 633-8-1 370 LF

3#6, 1#6 GND 639-2-1 370 LF

CKT DMS, 240V

2#6, 1#6 GND

CKT A-1, 480V

12 MM FOC (SLACK) 633-1-121 50 LF

AVI-POE CABLE (SLACK) 633-8-1 50 LF

ELEC PULL BOX 635-2-11 1 EA

FO PULL BOX 635-2-12 1 EA

VDS-AVI ABOVE GND 660-6-122 1 EA

WALK-IN DMS 700-9-137 1 EA

FDMS-4-72.7-EB

VDS-AVI-4-72.7-EB STA 798+97, 116' RT

EXISTING STRUCTURE TO REMAIN

NOTES

1. NOT ALL EXISTING CONDUITS ARE SHOWN. ALL EXISTING CONDUITS TO REMAIN SHALL BE FIELD VERIFIED AND MAINTAINED AND PROTECTED THROUGHOUT CONSTRUCTION.
2. EXISTING FIBER TO BE REMOVED AND REPLACED WITH NEW 144 SM FOC IN EXISTING DIRECTIONAL BORE CONDUIT.
3. EXISTING DEVICES SHALL REMAIN IN OPERATION ALL TIMES. THEY SHALL BE MAINTAINED & PROTECTED THROUGHOUT THE CONSTRUCTION.

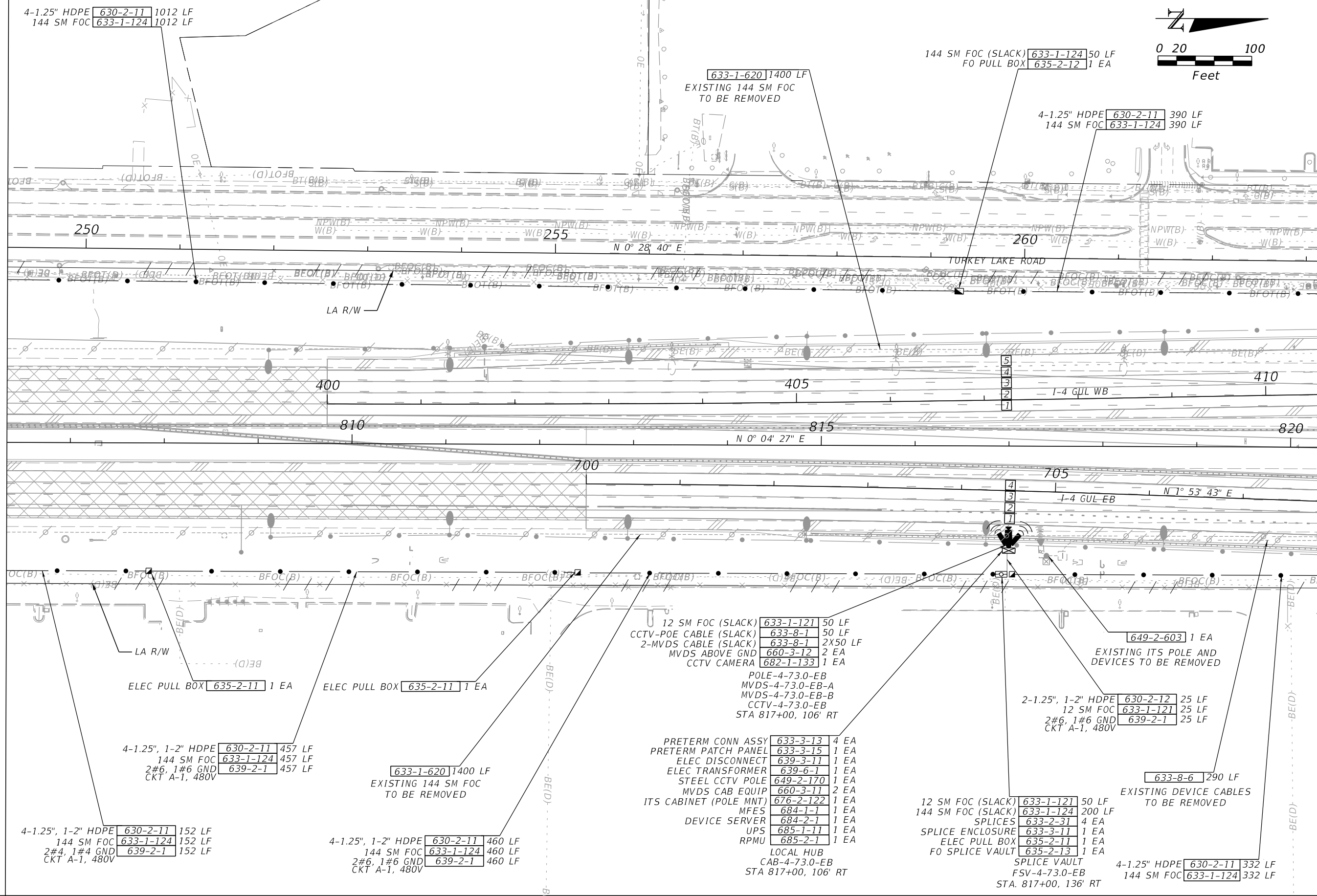
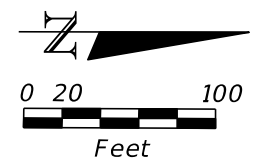
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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ITS PLAN (1)	SHEET NO. IT-9
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MATCH LINE 806+32.46
SEE ITS PLAN (1)

MATCH LINE 820+32.77
SEE ITS PLAN (3)

4-1.25" HDPE 630-2-11 1012 LF
144 SM FOC 633-1-124 1012 LF

144 SM FOC (SLACK) 633-1-124 50 LF
FO PULL BOX 635-2-12 1 EA

633-1-620 1400 LF
EXISTING 144 SM FOC
TO BE REMOVED

4-1.25" HDPE 630-2-11 390 LF
144 SM FOC 633-1-124 390 LF

250

255

260

400

405

410

810

815

820

700

705

ELEC PULL BOX 635-2-11 1 EA

ELEC PULL BOX 635-2-11 1 EA

4-1.25", 1-2" HDPE 630-2-11 457 LF
144 SM FOC 633-1-124 457 LF
2#6, 1#6 GND 639-2-1 457 LF

633-1-620 1400 LF
EXISTING 144 SM FOC
TO BE REMOVED

4-1.25", 1-2" HDPE 630-2-11 152 LF
144 SM FOC 633-1-124 152 LF
2#4, 1#4 GND 639-2-1 152 LF

4-1.25", 1-2" HDPE 630-2-11 460 LF
144 SM FOC 633-1-124 460 LF
2#6, 1#6 GND 639-2-1 460 LF

12 SM FOC (SLACK) 633-1-121 50 LF
CCTV-POE CABLE (SLACK) 633-8-1 50 LF
2-MVDS CABLE (SLACK) 633-8-1 2X50 LF
MVDS ABOVE GND 660-3-12 2 EA
CCTV CAMERA 682-1-133 1 EA
POLE-4-73.0-EB
MVDS-4-73.0-EB-A
MVDS-4-73.0-EB-B
CCTV-4-73.0-EB
STA 817+00, 106' RT

PRETERM CONN ASSY 633-3-13 4 EA
PRETERM PATCH PANEL 633-3-15 1 EA
ELEC DISCONNECT 639-3-11 1 EA
ELEC TRANSFORMER 639-6-1 1 EA
STEEL CCTV POLE 649-2-170 1 EA
MVDS CAB EQUIP 660-3-11 2 EA
ITS CABINET (POLE MNT) 676-2-122 1 EA
MFES 684-1-1 1 EA
DEVICE SERVER 684-2-1 1 EA
UPS 685-1-11 1 EA
RPMU 685-2-1 1 EA

12 SM FOC (SLACK) 633-1-121 50 LF
144 SM FOC (SLACK) 633-1-124 200 LF
SPLICES 633-2-31 4 EA
SPLICE ENCLOSURE 633-3-11 1 EA
ELEC PULL BOX 635-2-11 1 EA
FO SPLICE VAULT 635-2-13 1 EA
SPLICE VAULT
FSV-4-73.0-EB
STA. 817+00, 136' RT

649-2-603 1 EA
EXISTING ITS POLE AND
DEVICES TO BE REMOVED

2-1.25", 1-2" HDPE 630-2-12 25 LF
12 SM FOC 633-1-121 25 LF
2#6, 1#6 GND 639-2-1 25 LF
CKT A-1, 480V

633-8-6 290 LF
EXISTING DEVICE CABLES
TO BE REMOVED

4-1.25" HDPE 630-2-11 332 LF
144 SM FOC 633-1-124 332 LF

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

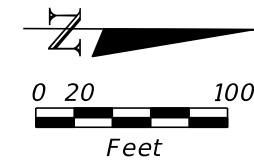
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

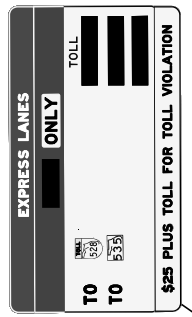
ITS PLAN (2)

SHEET
NO.
IT-10

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CONDUITS & PULL BOXES
PROVIDED FOR FUTURE TADMS
TADMS-4-73.4-WB
STA. 7196+09, 202', LT



ELEC PULL BOX 635-2-11 1 EA
FO PULL BOX 635-2-12 1 EA
STA. 7196+09, 202', LT

MATCH LINE 820+32.77
SEE ITS PLAN (2)

MATCH LINE 7196+49.98
SEE ITS PLAN (4)

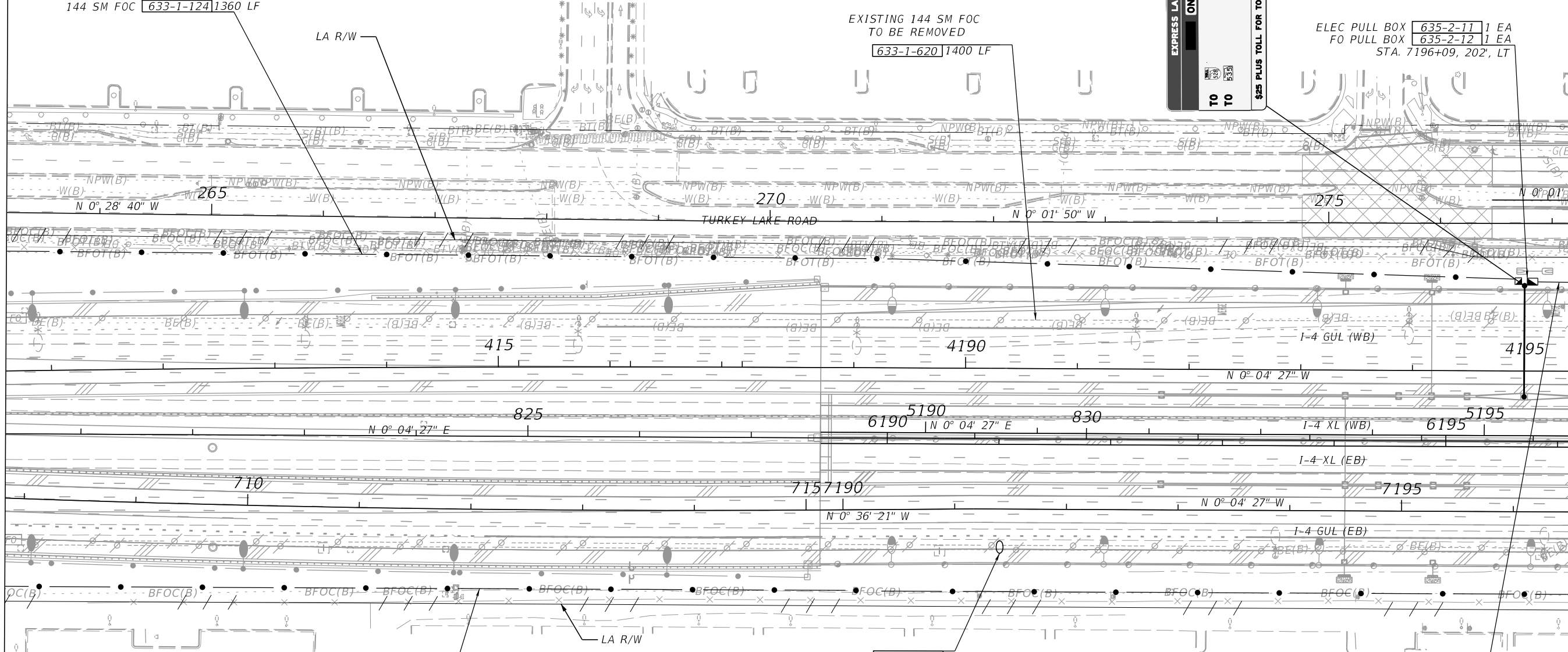
4-1.25" HDPE 630-2-11 1360 LF
144 SM FOC 633-1-124 1360 LF

EXISTING 144 SM FOC
TO BE REMOVED
633-1-620 1400 LF

4-1.25" HDPE 630-2-11 1400 LF
144 SM FOC 633-1-124 1400 LF

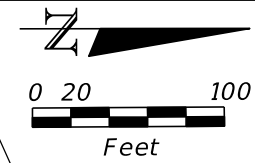
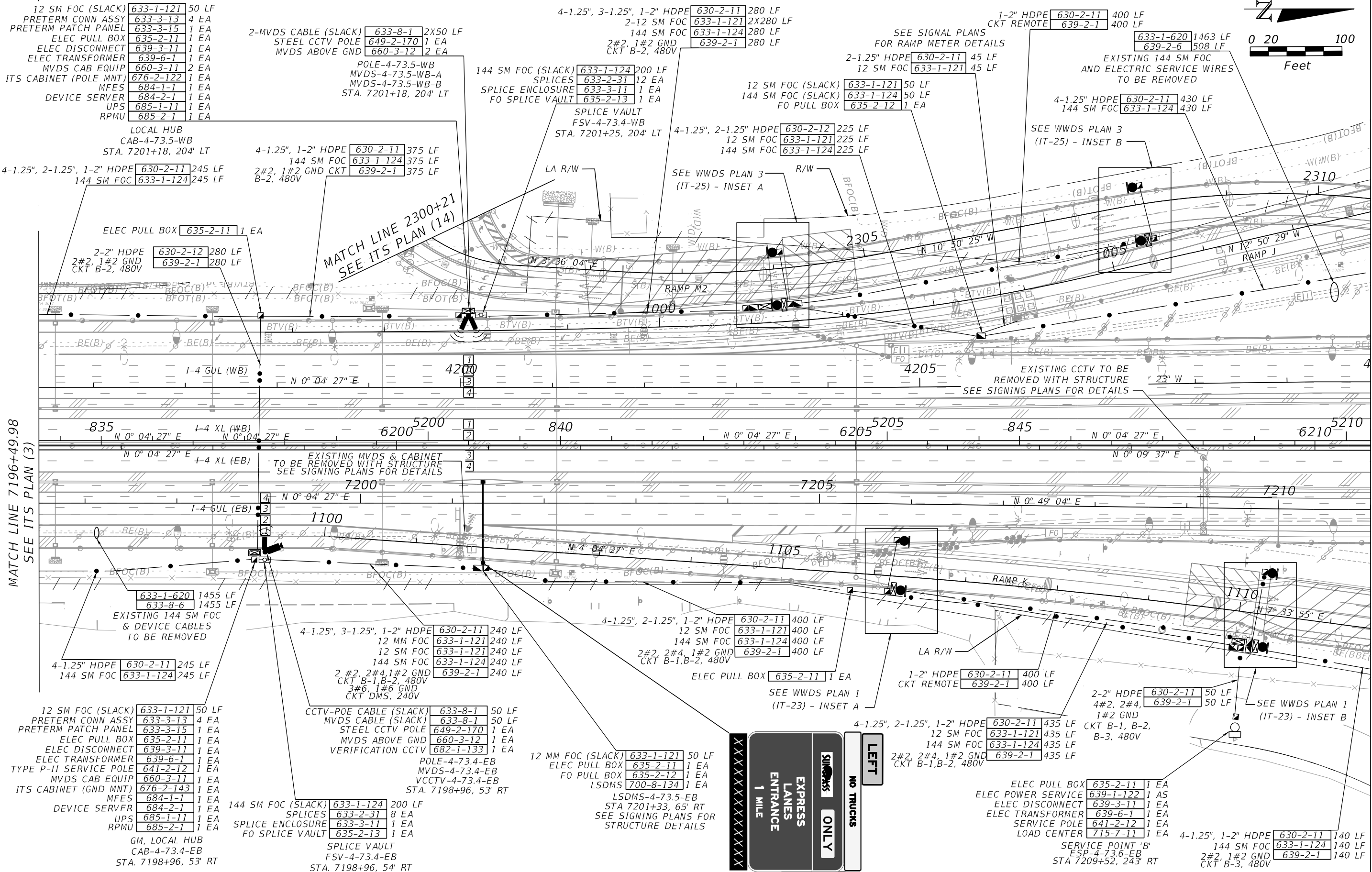
633-1-620 1400 LF
633-8-6 1400 LF
EXISTING 144 SM FOC
& DEVICE CABLES TO BE REMOVED

4-1.25", 2-1.25", 1-2" HDPE 630-2-11 20 LF
144 SM FOC 633-1-124 20 LF



REVISIONS				<p>Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290</p>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<p>ITS PLAN (3)</p>	<p>SHEET NO. IT-11</p>
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	444315-1-52-01		

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MATCH LINE 7196+49.98
SEE ITS PLAN (3)

MATCH LINE 7211+00
SEE ITS PLAN (5)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

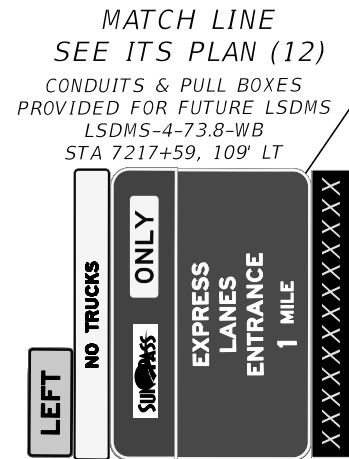
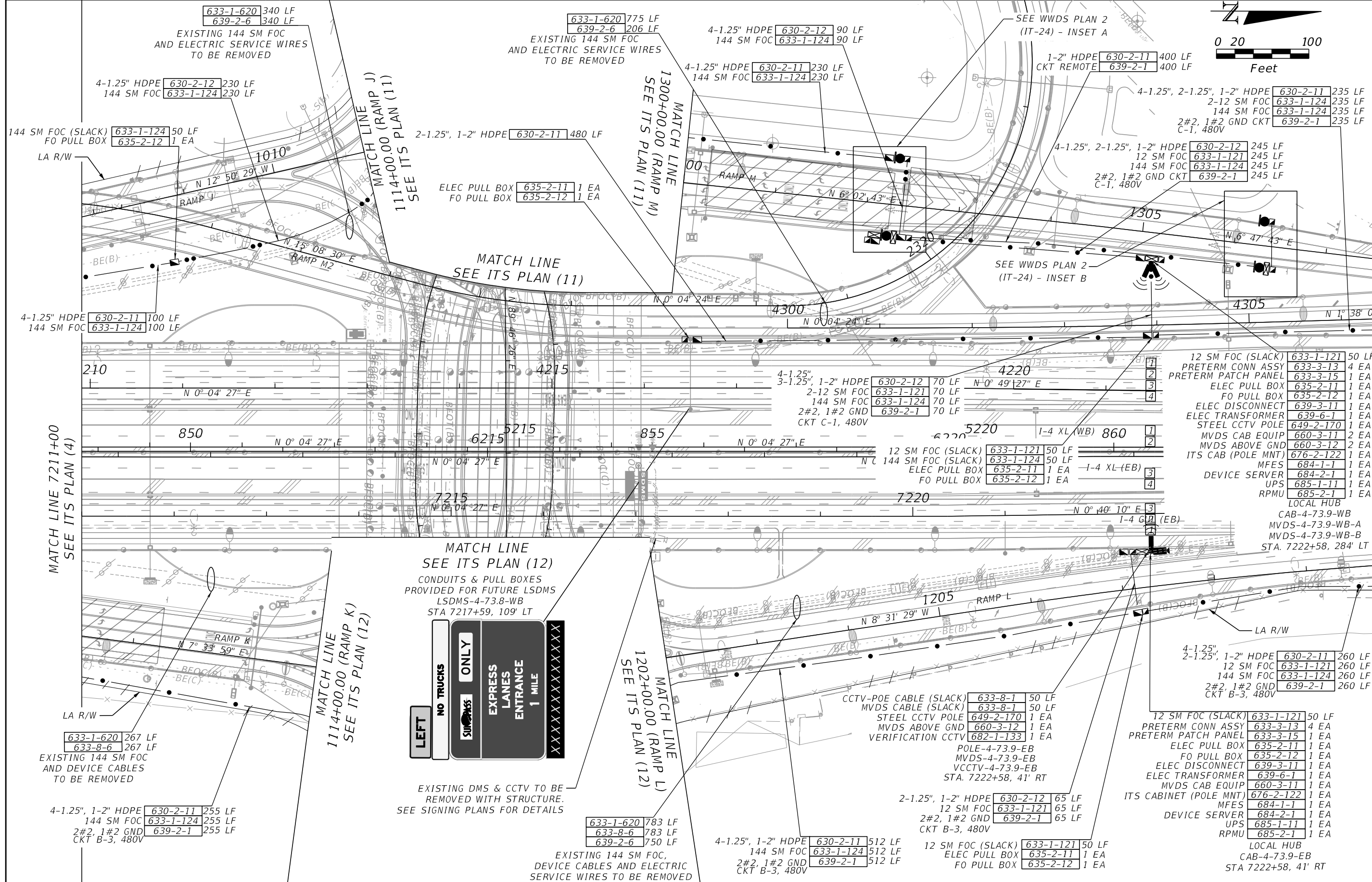
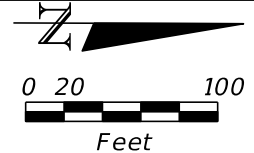
Engineer of Record: Ernest E. Sackey
 P.E. License No. 71730
 Jacobs Engineering Group, Inc.
 200 S. Orange Avenue, Suite 900
 Orlando, FL 32801
 PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS PLAN (4)

SHEET NO.
IT-12

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EXISTING DMS & CCTV TO BE REMOVED WITH STRUCTURE. SEE SIGNING PLANS FOR DETAILS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

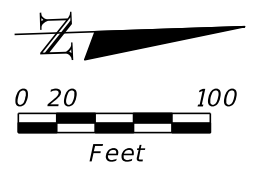
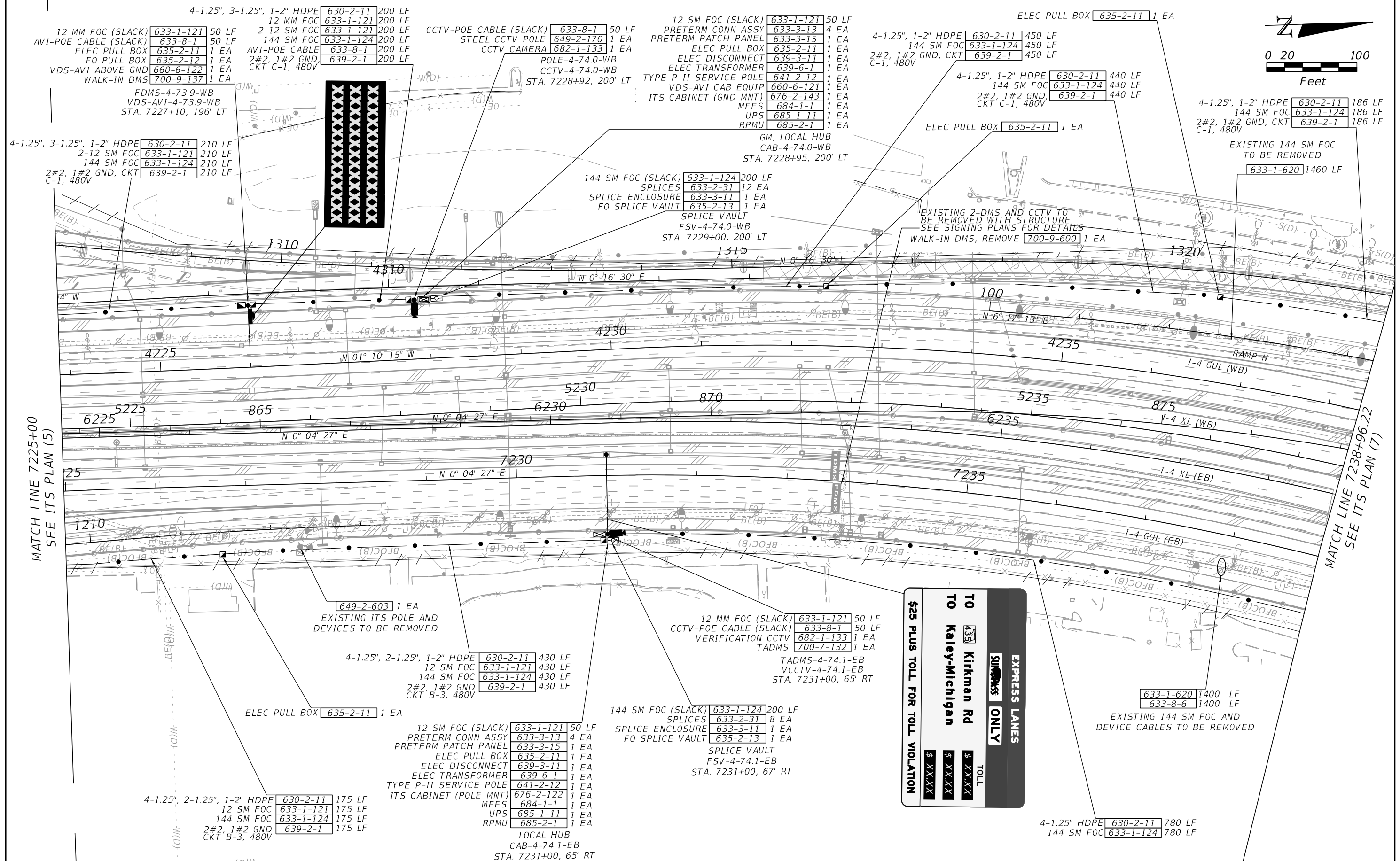
Engineer of Record: Ernest E. Sackey
 P.E. License No. 71730
 Jacobs Engineering Group, Inc.
 200 S. Orange Avenue, Suite 900
 Orlando, FL 32801
 PH (407) 903-5290

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS PLAN (5)

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 7225+00
SEE ITS PLAN (5)

MATCH LINE 7238+96.22
SEE ITS PLAN (7)

EXPRESS LANES

SUNSHINE ONLY

TO Kirkman Rd

TO Kaley-Michigan

\$25 PLUS TOLL FOR TOLL VIOLATION

TOLL	\$ XXXXX
\$ XXXXX	
\$ XXXXX	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS PLAN (6)

SHEET NO.
IT-14

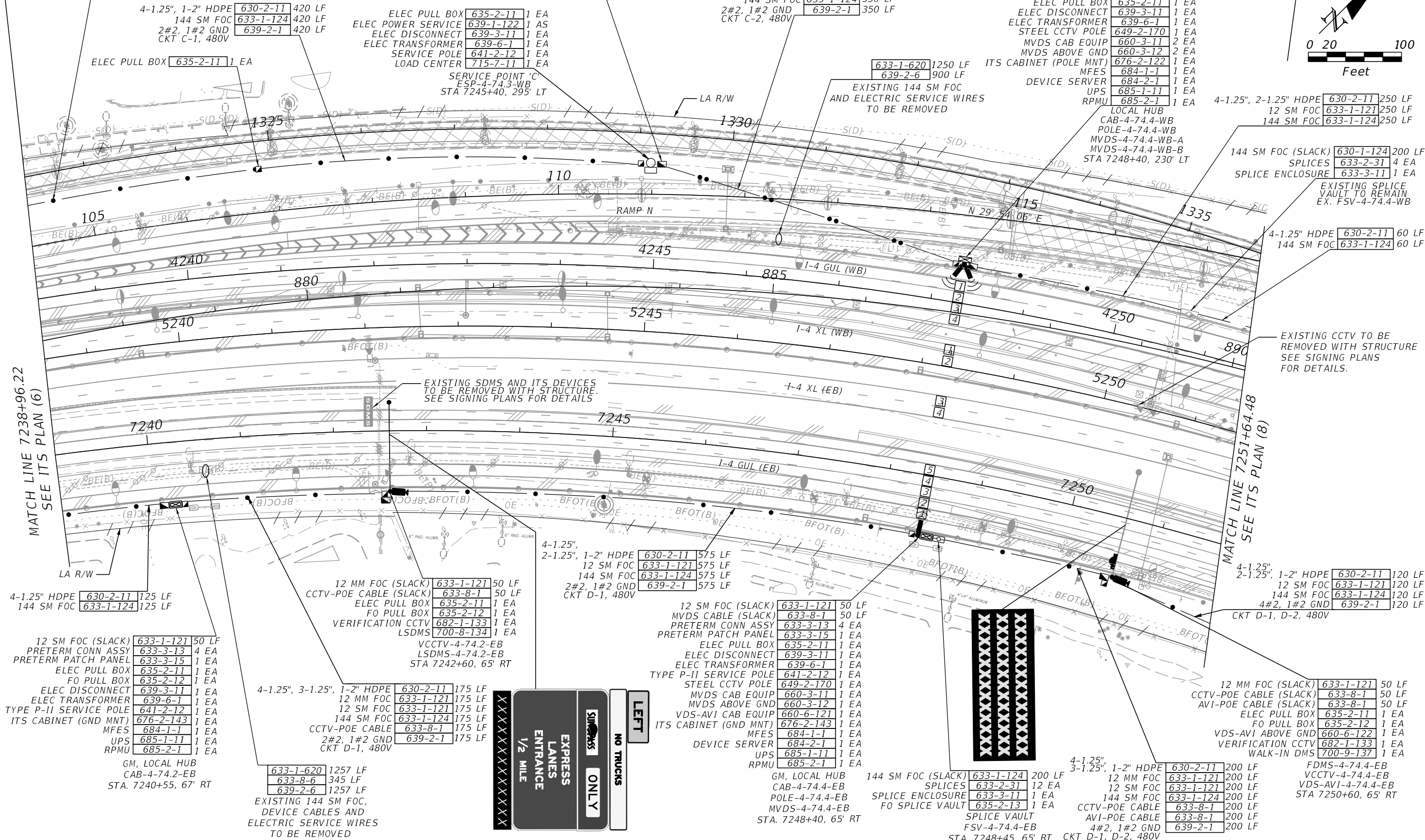
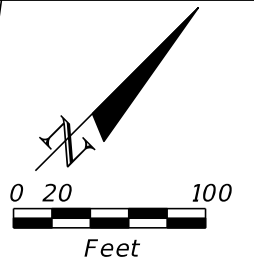
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

4-1.25", 1-2" HDPE 630-2-11 255 LF
 144 SM FOC 633-1-124 255 LF
 2#2, 1#2 GND 639-2-1 255 LF
 CKT C-1, 480V

144 SM FOC (SLACK) 633-1-124 50 LF
 FO PULL BOX 635-2-12 1 EA

4-1.25", 1-2" HDPE 630-2-12 350 LF
 144 SM FOC 633-1-124 350 LF
 2#2, 1#2 GND 639-2-1 350 LF

12 SM FOC (SLACK) 633-1-121 50 LF
 PRETERM CONN ASSY 633-3-13 4 EA
 PRETERM PATCH PANEL 633-3-15 1 EA
 2-MVDS CABLE (SLACK) 633-8-1 2X50 LF
 ELEC PULL BOX 635-2-11 1 EA
 ELEC DISCONNECT 639-3-11 1 EA
 ELEC TRANSFORMER 639-6-1 1 EA
 STEEL CCTV POLE 649-2-170 1 EA
 MVDS CAB EQUIP 660-3-11 2 EA
 MVDS ABOVE GND 660-3-12 2 EA
 ITS CABINET (POLE MNT) 676-2-122 1 EA
 MFES 684-1-1 1 EA
 DEVICE SERVER 684-2-1 1 EA
 UPS 685-1-11 1 EA
 RPMU 685-2-1 1 EA



MATCH LINE 7238+96.22
SEE ITS PLAN (6)

MATCH LINE 7251+64.48
SEE ITS PLAN (8)

4-1.25" HDPE 630-2-11 125 LF
 144 SM FOC 633-1-124 125 LF

12 SM FOC (SLACK) 633-1-121 50 LF
 PRETERM CONN ASSY 633-3-13 4 EA
 PRETERM PATCH PANEL 633-3-15 1 EA
 ELEC PULL BOX 635-2-11 1 EA
 FO PULL BOX 635-2-12 1 EA
 ELEC DISCONNECT 639-3-11 1 EA
 ELEC TRANSFORMER 639-6-1 1 EA
 TYPE P-II SERVICE POLE 641-2-12 1 EA
 ITS CABINET (GND MNT) 676-2-143 1 EA
 MFES 684-1-1 1 EA
 UPS 685-1-11 1 EA
 RPMU 685-2-1 1 EA

12 MM FOC (SLACK) 633-1-121 50 LF
 CCTV-POE CABLE (SLACK) 633-8-1 50 LF
 ELEC PULL BOX 635-2-11 1 EA
 FO PULL BOX 635-2-12 1 EA
 VERIFICATION CCTV 682-1-133 1 EA
 LSDMS 700-8-134 1 EA

4-1.25", 2-1.25", 1-2" HDPE 630-2-11 575 LF
 12 SM FOC 633-1-121 575 LF
 144 SM FOC 633-1-124 575 LF
 2#2, 1#2 GND 639-2-1 575 LF

12 SM FOC (SLACK) 633-1-121 50 LF
 MVDS CABLE (SLACK) 633-8-1 50 LF
 PRETERM CONN ASSY 633-3-13 4 EA
 PRETERM PATCH PANEL 633-3-15 1 EA
 ELEC PULL BOX 635-2-11 1 EA
 ELEC DISCONNECT 639-3-11 1 EA
 ELEC TRANSFORMER 639-6-1 1 EA
 TYPE P-II SERVICE POLE 641-2-12 1 EA
 STEEL CCTV POLE 649-2-170 1 EA
 MVDS CAB EQUIP 660-3-11 1 EA
 MVDS ABOVE GND 660-3-12 1 EA
 VDS-AVI CAB EQUIP 660-6-121 1 EA
 ITS CABINET (GND MNT) 676-2-143 1 EA
 MFES 684-1-1 1 EA
 DEVICE SERVER 684-2-1 1 EA
 UPS 685-1-11 1 EA
 RPMU 685-2-1 1 EA

4-1.25", 3-1.25", 1-2" HDPE 630-2-11 175 LF
 12 MM FOC 633-1-121 175 LF
 12 SM FOC 633-1-121 175 LF
 144 SM FOC 633-1-124 175 LF
 CCTV-POE CABLE 633-8-1 175 LF
 2#2, 1#2 GND 639-2-1 175 LF

633-1-620 1257 LF
 633-8-6 345 LF
 639-2-6 1257 LF

EXISTING 144 SM FOC,
 DEVICE CABLES AND
 ELECTRIC SERVICE WIRES
 TO BE REMOVED



GM, LOCAL HUB CAB-4-74.4-EB STA. 7248+40, 65' RT

144 SM FOC (SLACK) 633-1-124 200 LF
 SPLICES 633-2-31 12 EA
 POLE-4-74.4-EB 633-1-121 1 EA
 MVDS-4-74.4-EB 633-1-124 1 EA
 FO SPLICE VAULT 635-2-13 1 EA

SPLICE VAULT FSV-4-74.4-EB STA. 7248+45, 65' RT

4-1.25", 2-1.25", 1-2" HDPE 630-2-11 120 LF
 12 SM FOC 633-1-121 120 LF
 144 SM FOC 633-1-124 120 LF
 4#2, 1#2 GND 639-2-1 120 LF

12 MM FOC (SLACK) 633-1-121 50 LF
 CCTV-POE CABLE (SLACK) 633-8-1 50 LF
 AVI-POE CABLE (SLACK) 633-8-1 50 LF
 ELEC PULL BOX 635-2-11 1 EA
 FO PULL BOX 635-2-12 1 EA
 VDS-AVI ABOVE GND 660-6-122 1 EA
 VERIFICATION CCTV 682-1-133 1 EA
 WALK-IN DMS 700-9-137 1 EA

FDMS-4-74.4-EB
 VCCTV-4-74.4-EB
 VDS-AVI-4-74.4-EB
 STA 7250+60, 65' RT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

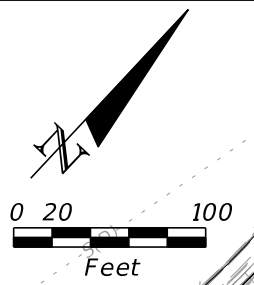
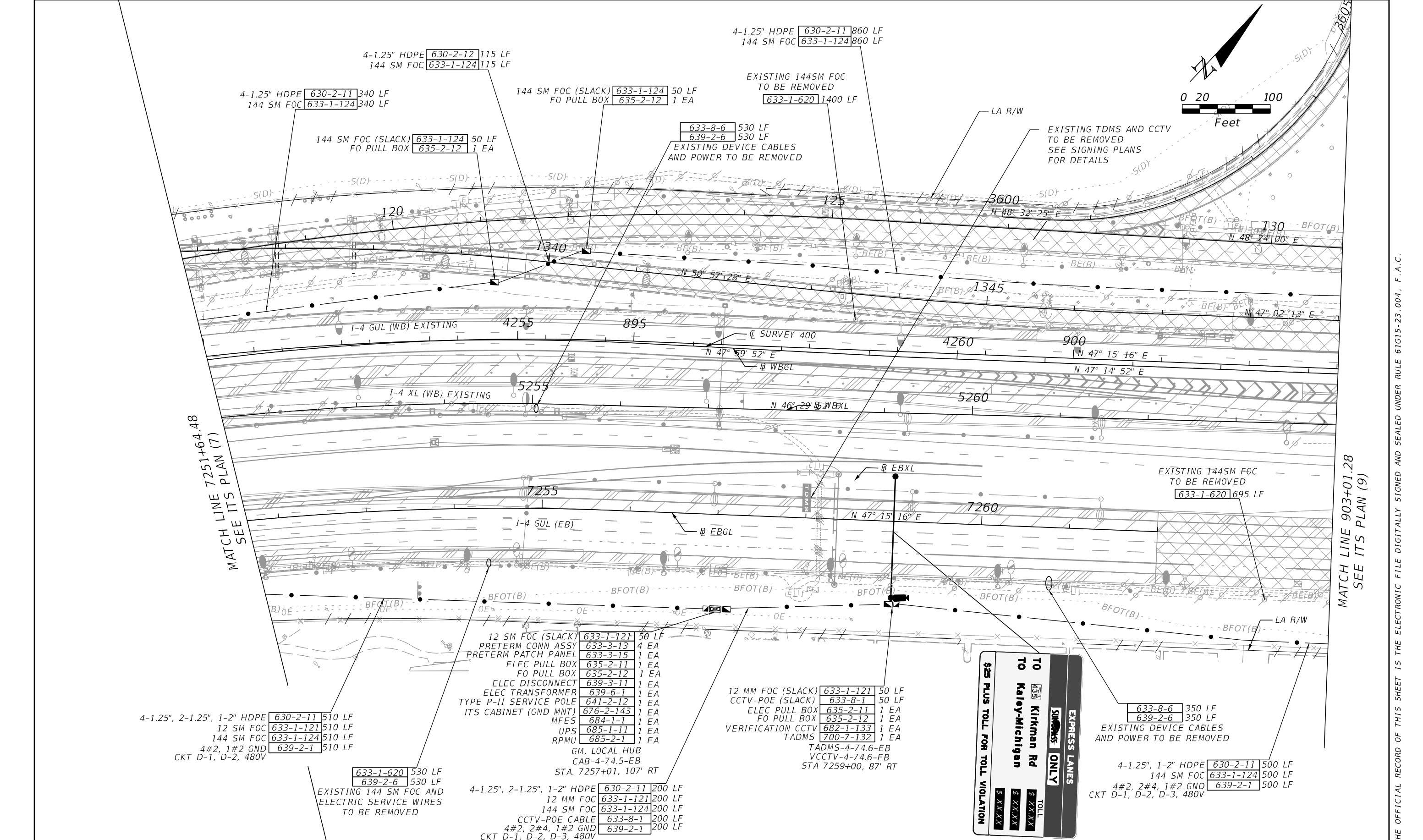
Engineer of Record: Ernest E. Sackey
 P.E. License No. 71730
 Jacobs Engineering Group, Inc.
 200 S. Orange Avenue, Suite 900
 Orlando, FL 32801
 PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS PLAN (7)

SHEET NO.
IT-15

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MATCH LINE 7251+64.48
SEE ITS PLAN (7)

MATCH LINE 903+01.28
SEE ITS PLAN (9)

4-1.25", 2-1.25", 1-2" HDPE 630-2-11 510 LF
 12 SM FOC 633-1-121 510 LF
 144 SM FOC 633-1-124 510 LF
 4#2, 1#2 GND 639-2-1 510 LF
 CKT D-1, D-2, 480V

633-1-620 530 LF
 639-2-6 530 LF
 EXISTING 144 SM FOC AND
 ELECTRIC SERVICE WIRES
 TO BE REMOVED

12 SM FOC (SLACK)	633-1-121	50 LF
PRETERM CONN ASSY	633-3-13	4 EA
PRETERM PATCH PANEL	633-3-15	1 EA
ELEC PULL BOX	635-2-11	1 EA
FO PULL BOX	635-2-12	1 EA
ELEC DISCONNECT	639-3-11	1 EA
ELEC TRANSFORMER	639-6-1	1 EA
TYPE P-II SERVICE POLE	641-2-12	1 EA
ITS CABINET (GND MNT)	676-2-143	1 EA
MFES	684-1-1	1 EA
UPS	685-1-11	1 EA
RPMU	685-2-1	1 EA

4-1.25", 2-1.25", 1-2" HDPE 630-2-11 200 LF
 12 MM FOC 633-1-121 200 LF
 144 SM FOC 633-1-124 200 LF
 CCTV-POE CABLE 633-8-1 200 LF
 4#2, 2#4, 1#2 GND 639-2-1 200 LF
 CKT D-1, D-2, D-3, 480V

12 MM FOC (SLACK) 633-1-121 50 LF
 CCTV-POE (SLACK) 633-8-1 50 LF
 ELEC PULL BOX 635-2-11 1 EA
 FO PULL BOX 635-2-12 1 EA
 VERIFICATION CCTV 682-1-133 1 EA
 TADMS 700-7-132 1 EA
 TADMS-4-74.6-EB
 VCCTV-4-74.6-EB
 STA 7259+00, 87' RT

\$25 PLUS TOLL FOR TOLL VIOLATION

TO	435	EXPRESS LANES ONLY
TO	Kirkman Rd	
TO	Kaley-Michigan	
TOLL	\$ XXXXX	
TOLL	\$ XXXXX	
TOLL	\$ XXXXX	

633-8-6 350 LF
 639-2-6 350 LF
 EXISTING DEVICE CABLES
 AND POWER TO BE REMOVED

4-1.25", 1-2" HDPE 630-2-11 500 LF
 144 SM FOC 633-1-124 500 LF
 4#2, 2#4, 1#2 GND 639-2-1 500 LF
 CKT D-1, D-2, D-3, 480V

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

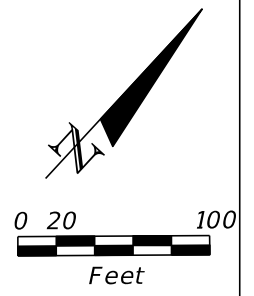
Engineer of Record: Ernest E. Sackey
 P.E. License No. 71730
 Jacobs Engineering Group, Inc.
 200 S. Orange Avenue, Suite 900
 Orlando, FL 32801
 PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS PLAN (8)

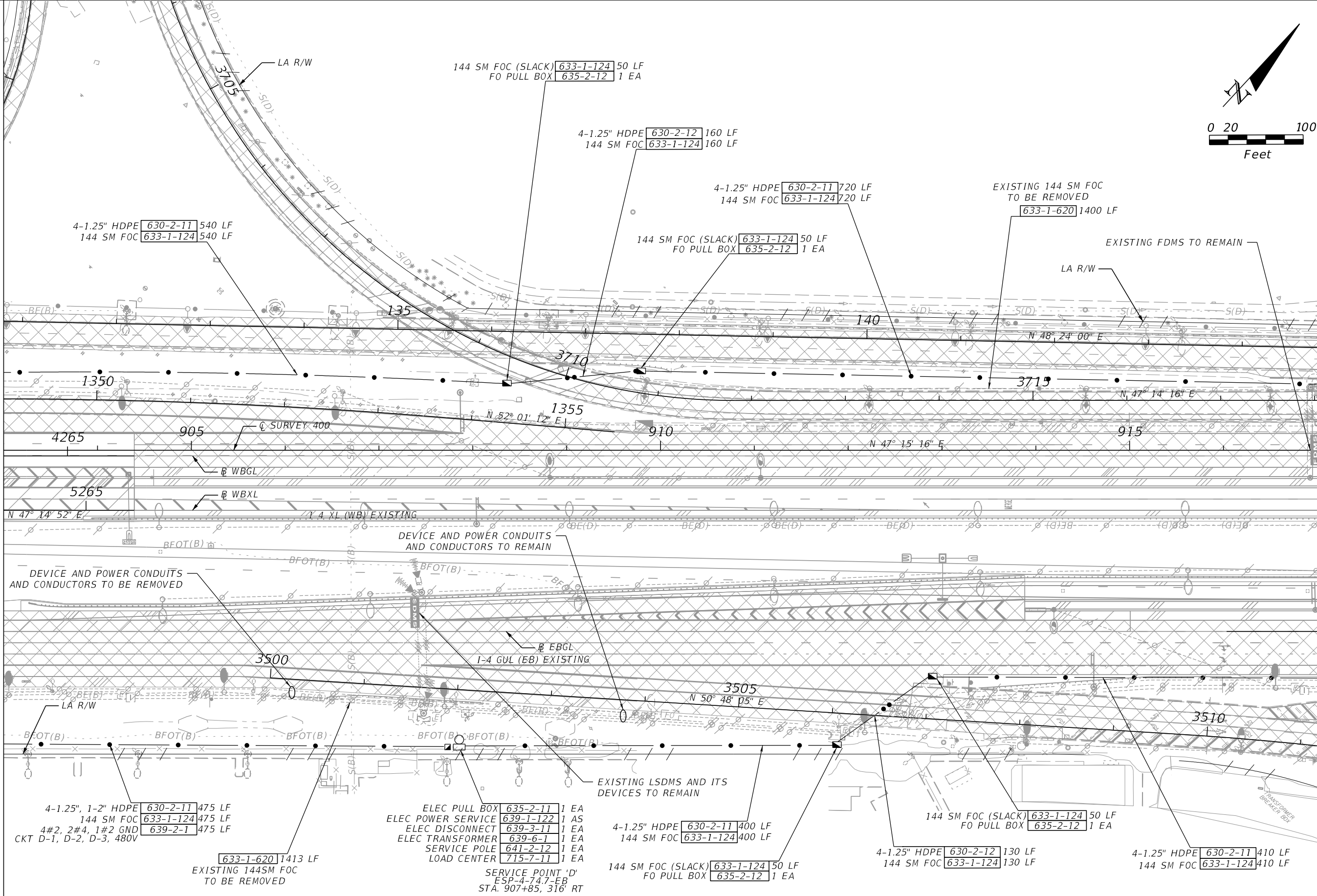
SHEET NO.
IT-16

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



MATCH LINE 903+01.28
SEE ITS PLAN (8)

MATCH LINE 917+00.00
SEE ITS PLAN (10)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

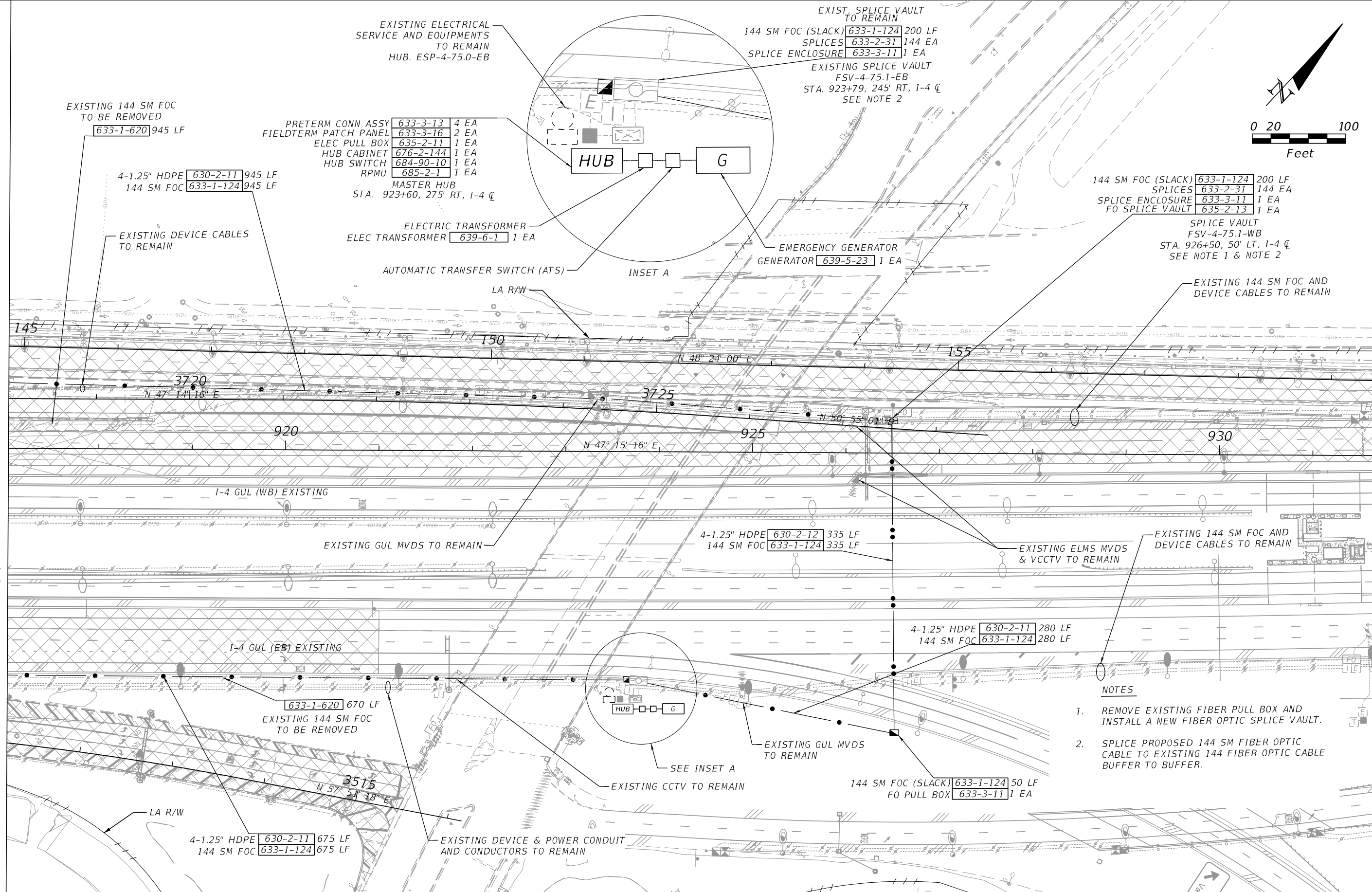
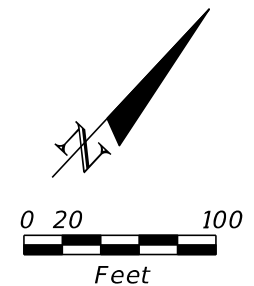
Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS PLAN (9)

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.

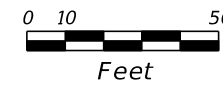
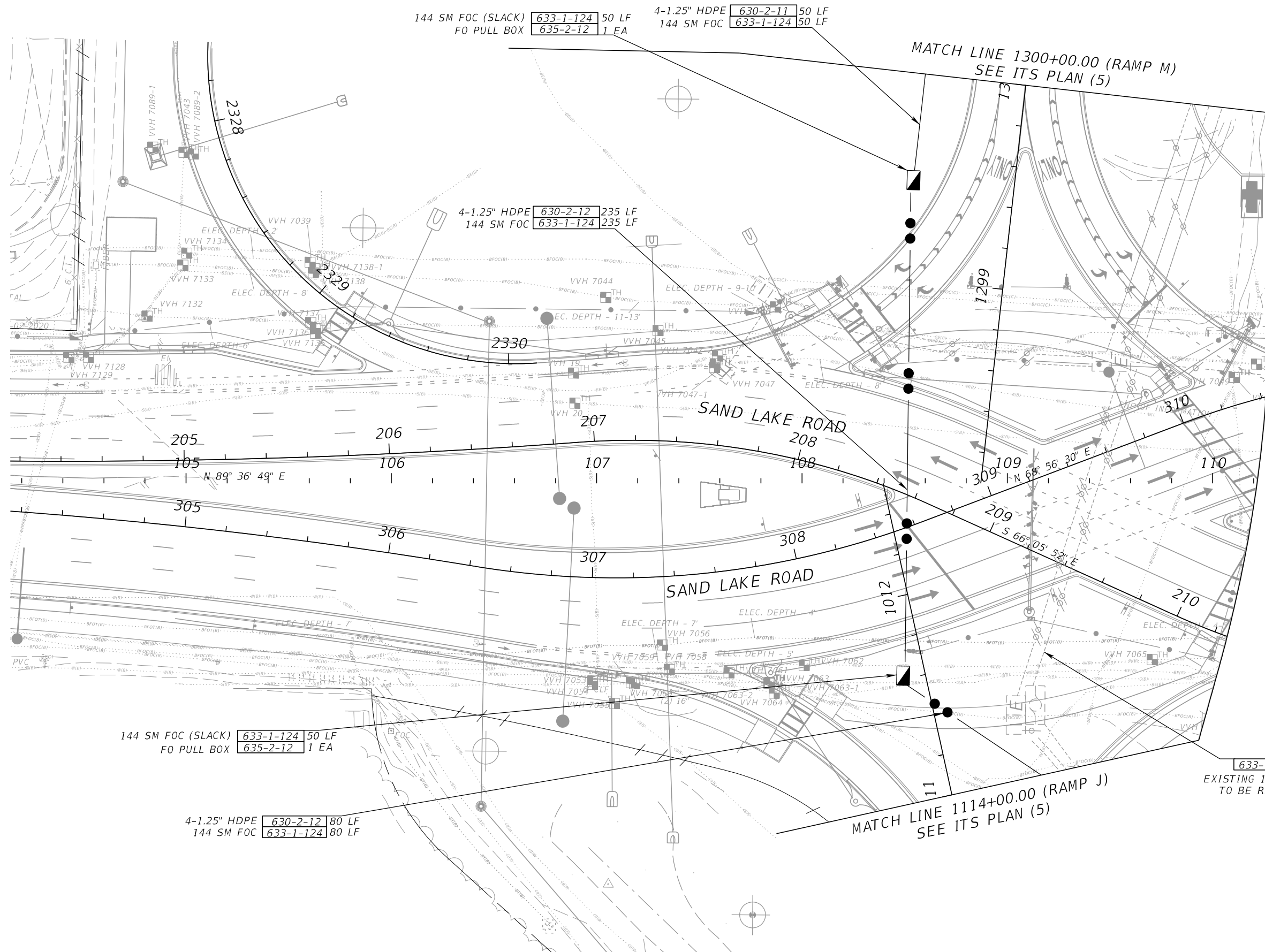


MATCH LINE 917+03.26
SEE ITS PLAN (9)

- NOTES**
1. REMOVE EXISTING FIBER PULL BOX AND INSTALL A NEW FIBER OPTIC SPLICE VAULT.
 2. SPLICE PROPOSED 144 SM FIBER OPTIC CABLE TO EXISTING 144 FIBER OPTIC CABLE BUFFER TO BUFFER.

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ITS PLAN (10) IT-18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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



144 SM FOC (SLACK) 633-1-124 50 LF
 FO PULL BOX 635-2-12 1 EA

4-1.25" HDPE 630-2-11 50 LF
 144 SM FOC 633-1-124 50 LF

4-1.25" HDPE 630-2-12 235 LF
 144 SM FOC 633-1-124 235 LF

144 SM FOC (SLACK) 633-1-124 50 LF
 FO PULL BOX 635-2-12 1 EA

4-1.25" HDPE 630-2-12 80 LF
 144 SM FOC 633-1-124 80 LF

633-1-620 340 LF
 EXISTING 144 SM FOC
 TO BE REMOVED

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
 P.E. License No. 71730
 Jacobs Engineering Group, Inc.
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 Orlando, FL 32801
 PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS PLAN (11)

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.

633-1-620 475 LF
 633-8-6 475 LF
 EXISTING 144 SM FOC, DEVICE CABLES
 AND COMPOSITE CABLES
 TO BE REMOVED

4-1.25", 1-2" HDPE 630-2-11 120 LF
 144 SM FOC 633-1-124 120 LF
 2#2, 1#2 GND 639-2-1 120 LF
 CKT B-3, 480V

NOTE

1. FOR CONDUIT QUANTITY PLEASE SEE SIGNAL PLANS

SPLICE VAULT
 FSV-4-73.9-EB
 STA. 7216+46, 258' RT
 STA. 1201+12, 91' RT, RAMP 'L' CL
 144 SM FOC (SLACK) 633-1-124 200 LF
 SPLICES 633-2-31 4 EA
 SPLICE ENCLOSURE 633-3-11 1 EA
 FO SPLICE VAULT 635-2-13 1 EA

4-1.25", 1-2" HDPE 630-2-11 235 LF
 144 SM FOC 633-1-124 235 LF
 2#2, 1#2 GND 639-2-1 235 LF
 CKT B-3, 480V

SEE NOTE 1
 12 SM FOC 633-1-121 30 LF

144 SM FOC (SLACK) 633-1-124 50 LF
 ELEC PULL BOX 635-2-11 1 EA
 FO PULL BOX 635-2-12 1 EA

EXISTING CABINET,
 SPLICE VAULT
 AND TRANSFORMER
 TO BE REMOVED
 676-2-600 1 EA

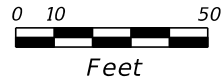
SEE NOTE 1
 12 SM FOC 633-1-121 160 LF

SEE NOTE 1
 12 SM FOC 633-1-121 225 LF

12 SM FOC (SLACK) 633-1-121 50 LF
 CCTV POE CABLE (SLACK) 633-8-1 50 LF
 CCTV CAMERA 682-1-133 1 EA
 CCTV-4-73.7-EB
 STA 7214+35, 43' RT
 SEE SIGNAL PLAN FOR
 CABINET DETAILS

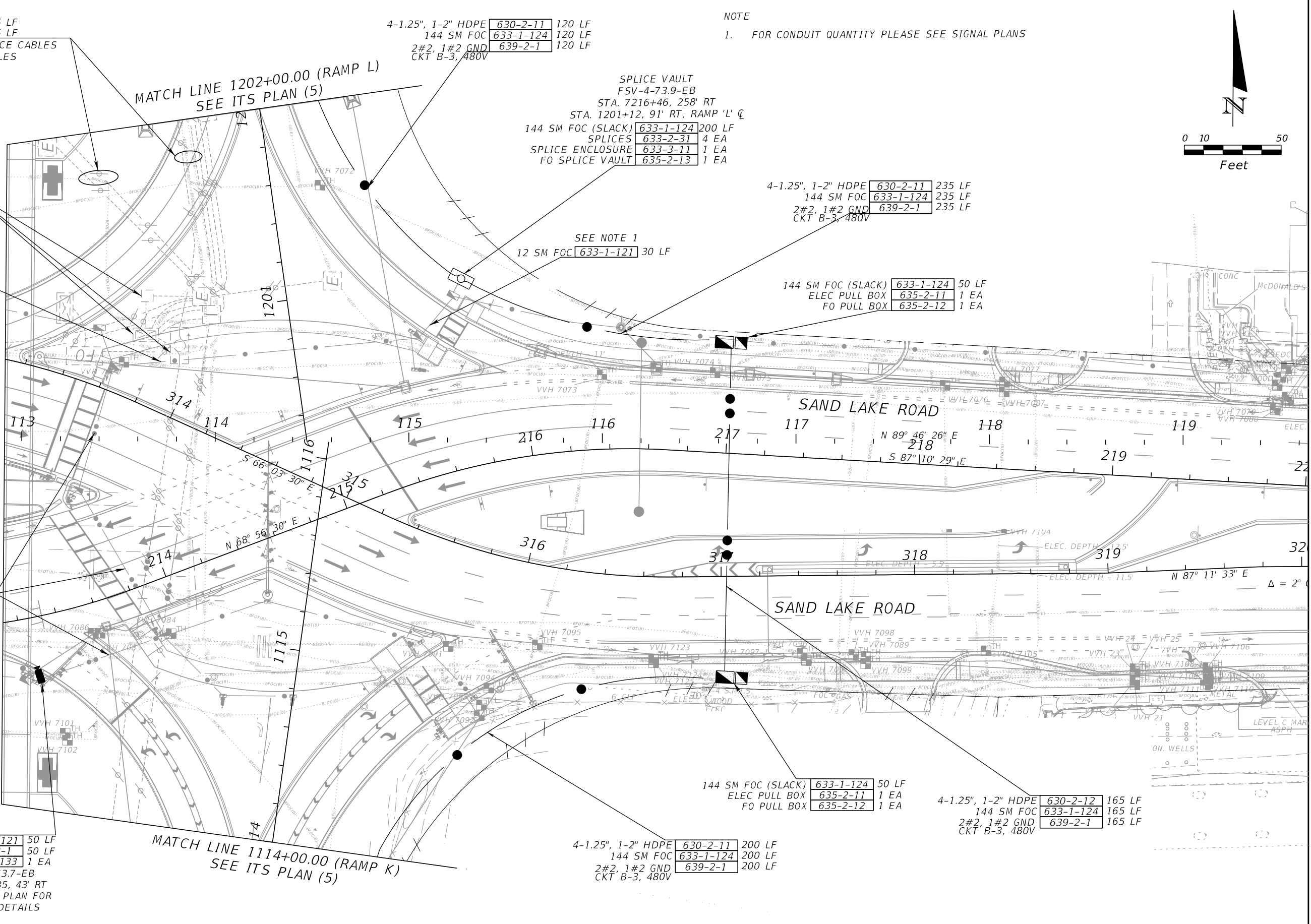
MATCH LINE 1202+00.00 (RAMP L)
 SEE ITS PLAN (5)

MATCH LINE 1114+00.00 (RAMP K)
 SEE ITS PLAN (5)



MATCH LINE
 SEE ITS PLAN (5)

MATCH LINE
 SEE ITS PLAN (5)



144 SM FOC (SLACK) 633-1-124 50 LF
 ELEC PULL BOX 635-2-11 1 EA
 FO PULL BOX 635-2-12 1 EA

4-1.25", 1-2" HDPE 630-2-12 165 LF
 144 SM FOC 633-1-124 165 LF
 2#2, 1#2 GND 639-2-1 165 LF
 CKT B-3, 480V

4-1.25", 1-2" HDPE 630-2-11 200 LF
 144 SM FOC 633-1-124 200 LF
 2#2, 1#2 GND 639-2-1 200 LF
 CKT B-3, 480V

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

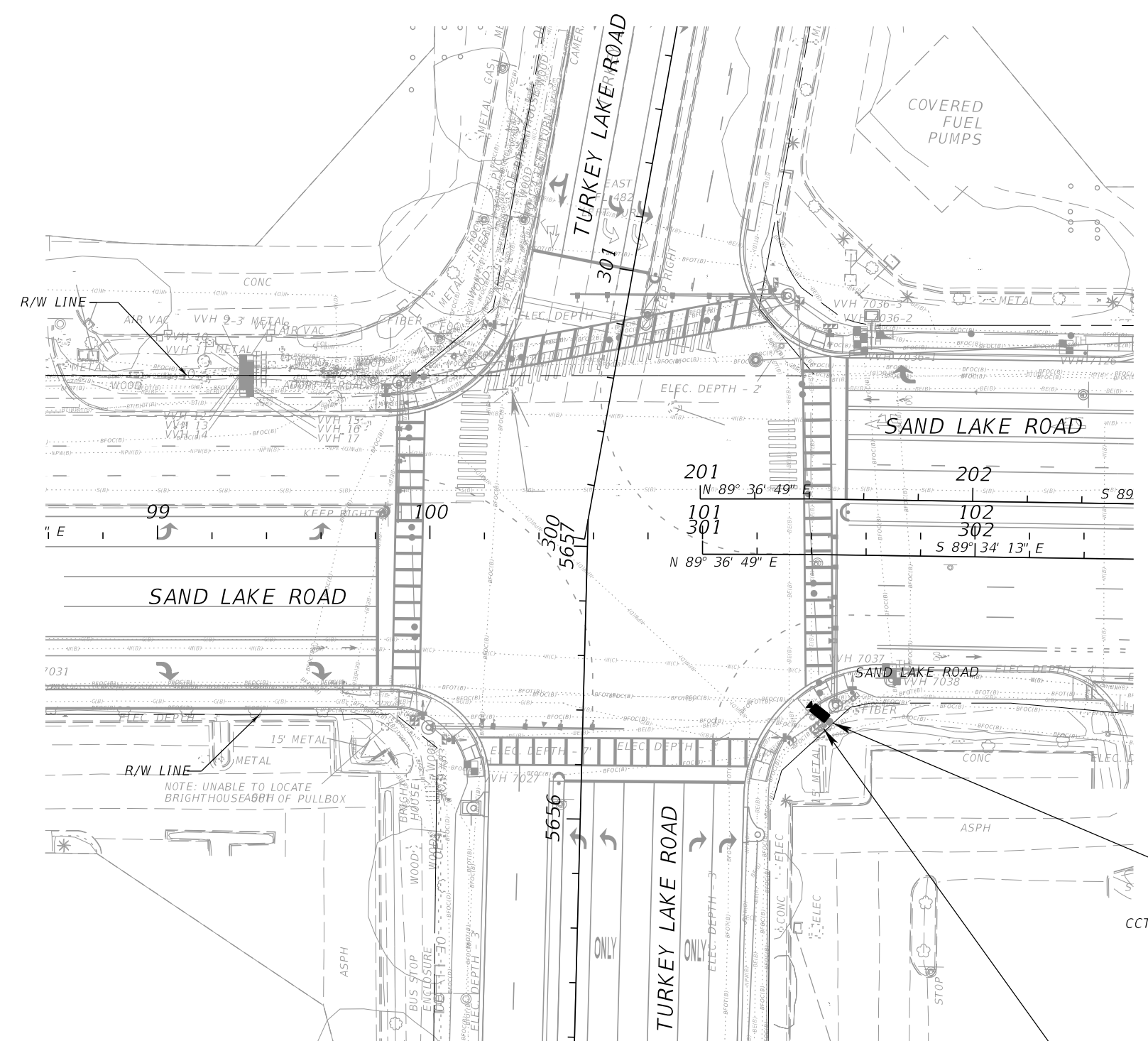
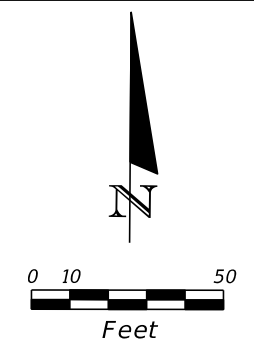
Engineer of Record: Ernest E. Sackey
 P.E. License No. 71730
 Jacobs Engineering Group, Inc.
 200 S. Orange Avenue, Suite 900
 Orlando, FL 32801
 PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS PLAN (12)

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.



CCTV POE CABLE (SLACK) 633-8-1 50 LF
 CCTV CAMERA 682-1-133 1 EA
 CCTV-SR482-0.5-EB
 STA. 101+32, 88' LT

SEE SIGNAL PLAN
 FOR CABINET DETAILS

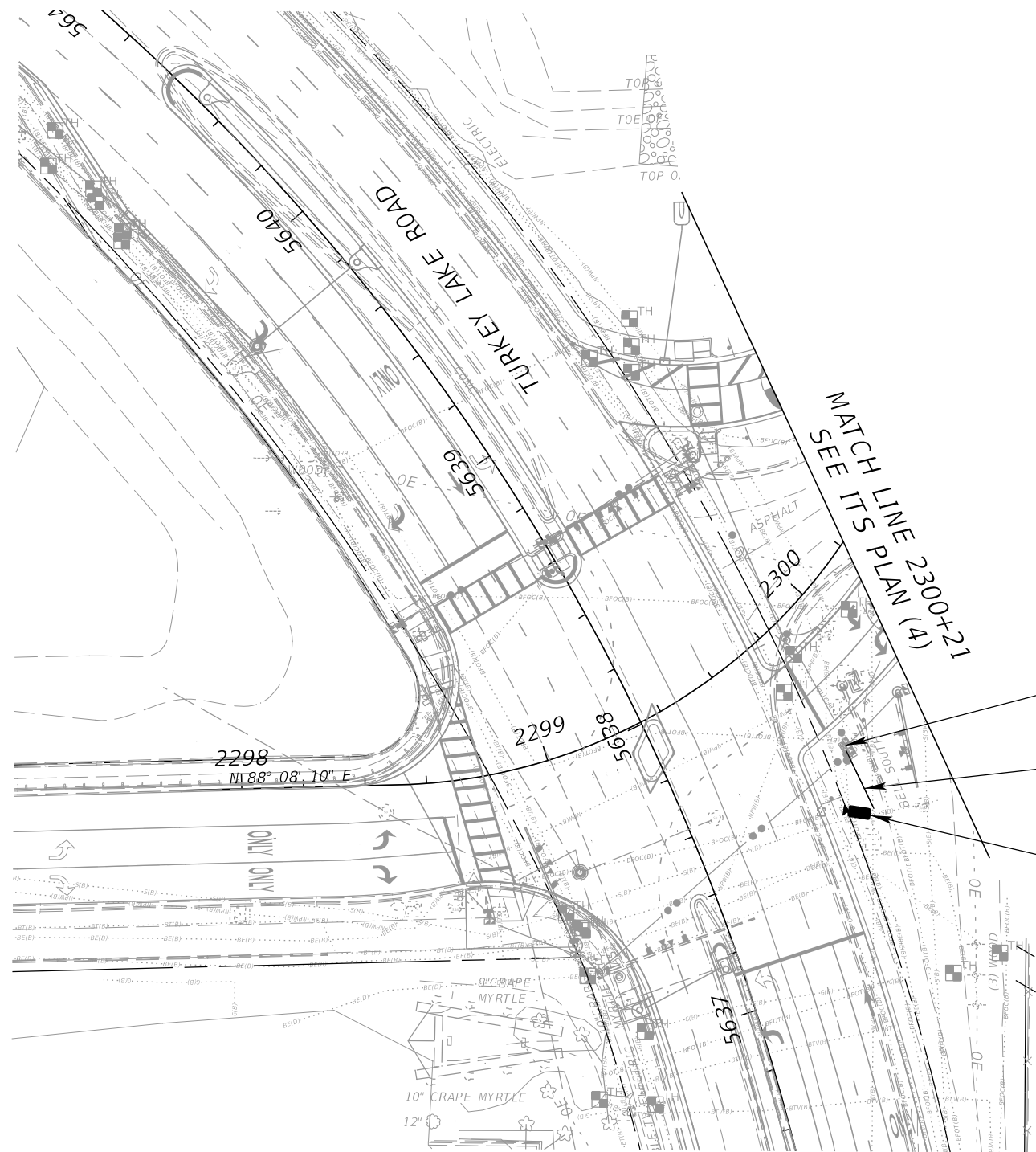
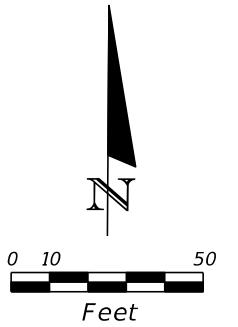
SAND LAKE ROAD & TURKEY LAKE ROAD

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 400	ORANGE	444315-1-52-01	IT-21

Engineer of Record: Ernest E. Sackey
 P.E. License No. 71730
 Jacobs Engineering Group, Inc.
 200 S. Orange Avenue, Suite 900
 Orlando, FL 32801
 PH (407) 903-5290

ITS PLAN (13)

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



SEE SIGNAL PLAN FOR CABINET DETAILS

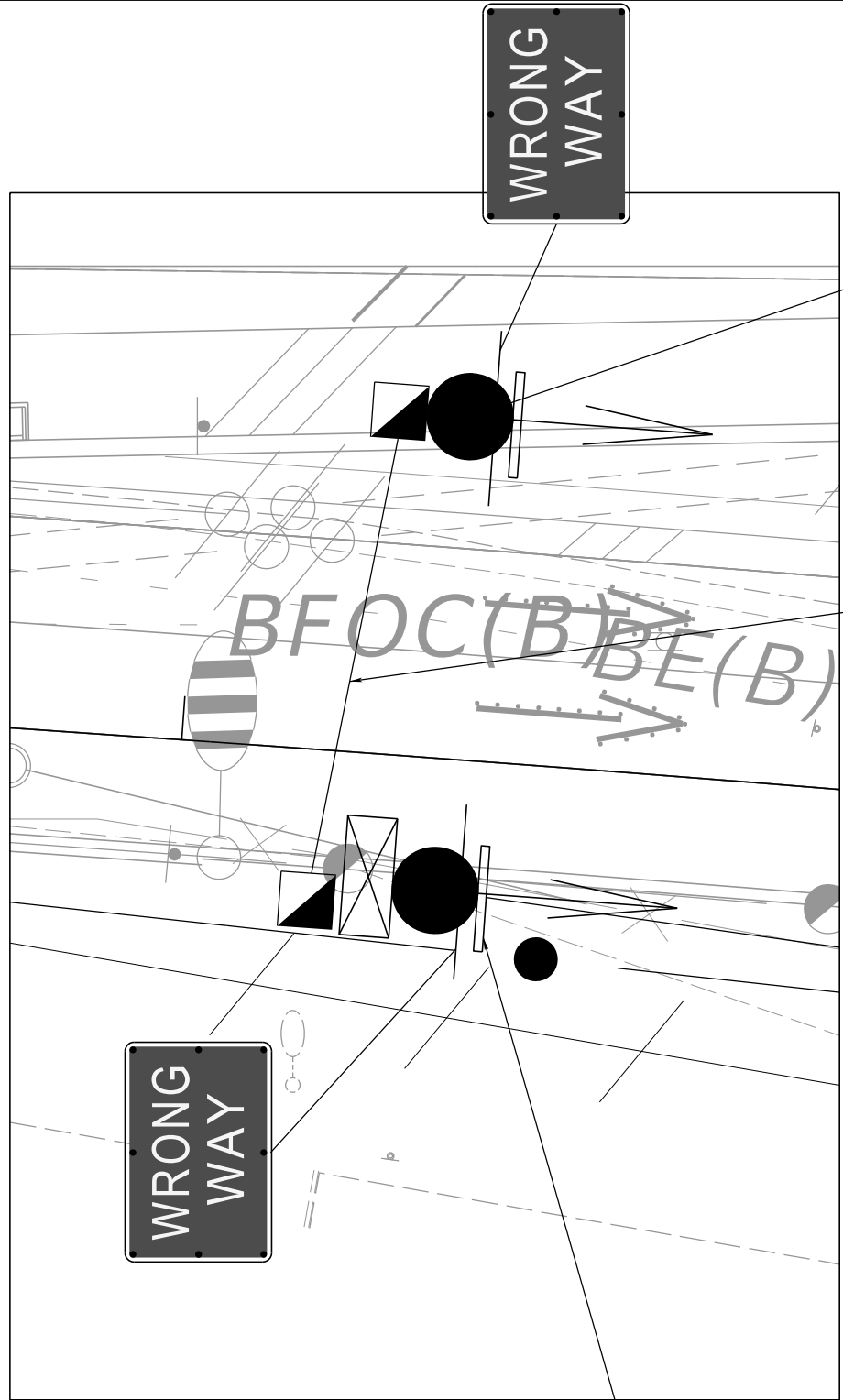
1-2" HDPE 630-2-11 25 LF
 CCTV-POE CABLE 633-8-1 25 LF

CCTV-POE CABLE (SLACK) 633-8-1 50 LF
 CCTV CAMERA 682-1-133 1 EA
 CCTV-CR439-2.5-NB
 5637+44, 57' RT

TURKEY LAKE ROAD & SAND LAKE SOUND RD

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN (14)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-22
					SR 400	ORANGE	444315-1-52-01		

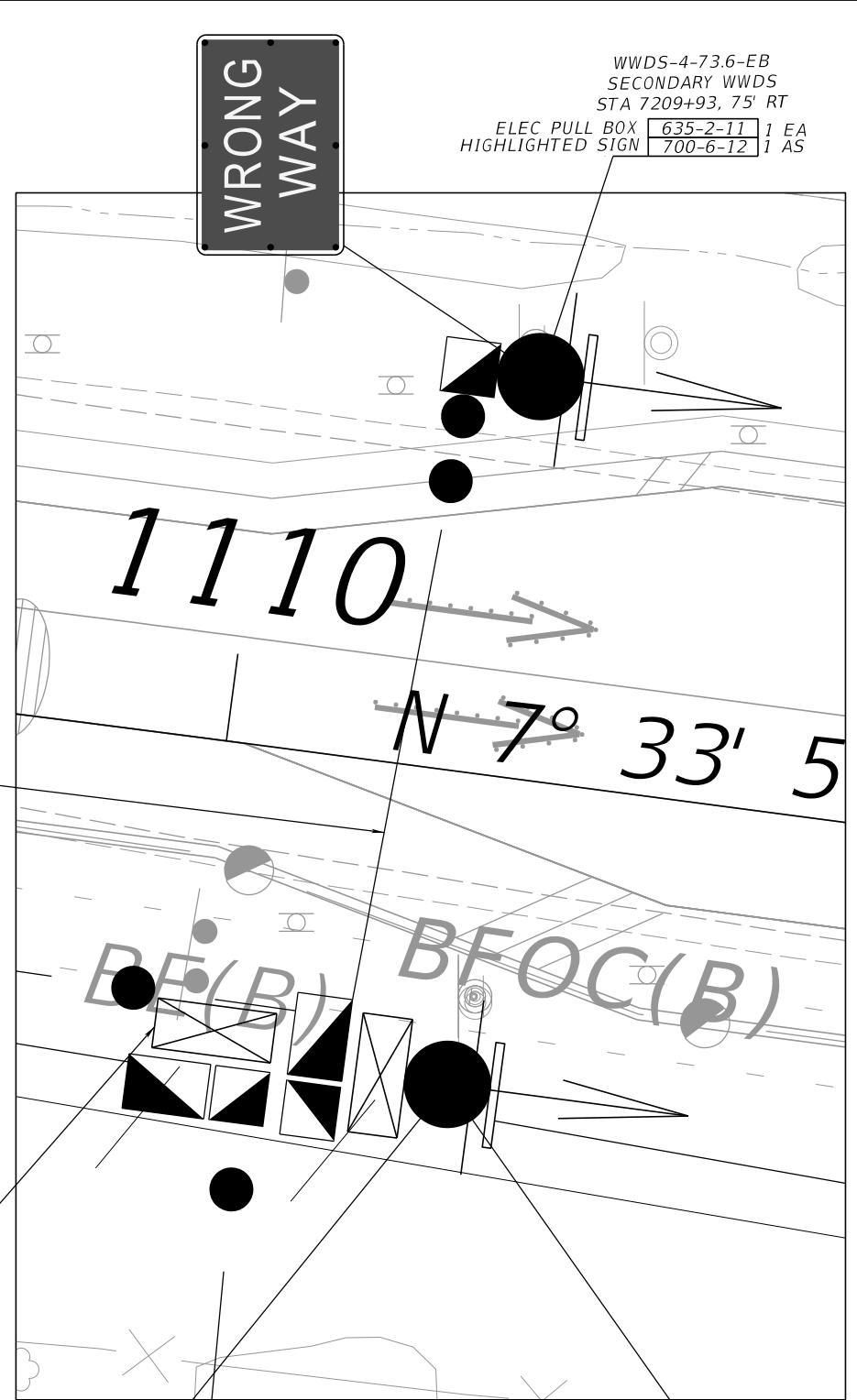
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



WWDS-4-73.6-EB
SECONDARY WWDS
STA 7205+92, 41' RT
ELEC PULL BOX 635-2-11 1 EA
HIGHLIGHTED SIGN 700-6-12 1 AS

1-2" HDPE 630-2-12 55 LF
DC POWER 639-2-1 55 LF

1-2" HDPE 630-2-12 80 LF
DC POWER 639-2-1 80 LF



WWDS-4-73.6-EB
SECONDARY WWDS
STA 7209+93, 75' RT
ELEC PULL BOX 635-2-11 1 EA
HIGHLIGHTED SIGN 700-6-12 1 AS

WWDS LOCAL HUB
CAB-4-73.6-EB
STA 7209+65, 153' RT
12 SM FOC (SLACK) 633-1-121 50 LF
PRETERM CONN ASSY 633-3-13 4 EA
PRETERM PATCH PANEL 633-3-15 1 EA
ELEC PULL BOX 635-2-11 1 EA
FO PULL BOX 635-2-12 1 EA
ELEC DISCONNECT 639-3-11 1 EA
TYPE P-II SERVICE POLE 641-2-12 1 EA
ITS CABINET (POLE MNT) 676-2-122 1 EA
MFES 684-1-1 1 EA
UPS 685-1-11 1 EA
RPMU 685-2-1 1 EA

WWDS-4-73.6-EB
PRIMARY WWDS
STA 7209+83, 155' RT
CAT6 CABLE (SLACK) 633-8-1 50 LF
ELEC PULL BOX 635-2-11 1 EA
FO PULL BOX 635-2-12 1 EA
VDS-WRONG WAY 660-7-11 1 EA
HIGHLIGHTED SIGN 700-6-12 1 AS

INSET A
SEE ITS PLAN (4)
IT-11

WWDS-4-73.6-EB
REMOTE WWDS
STA 7205+88, 95' RT

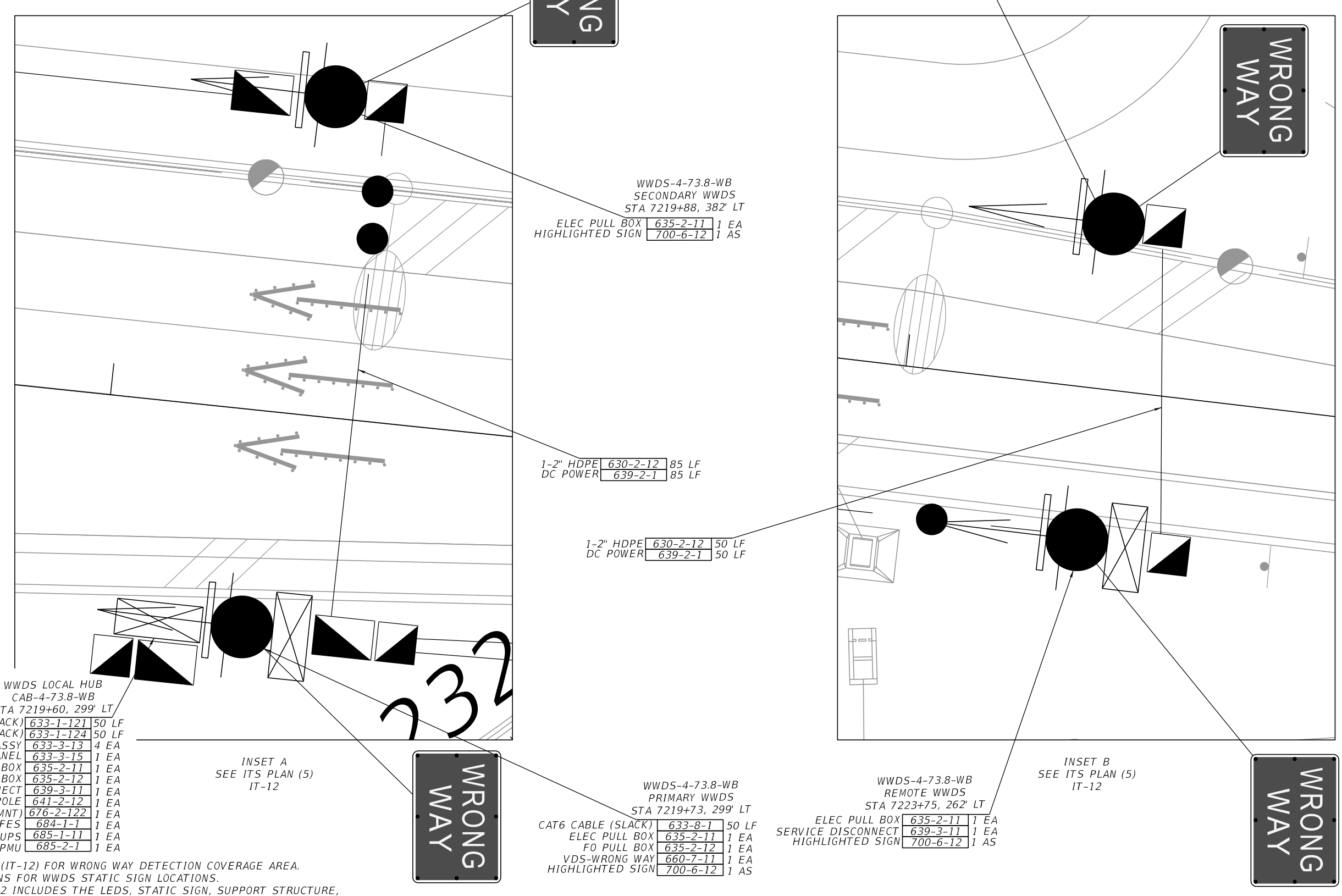
ELEC PULL BOX 635-2-11 1 EA
SERVICE DISCONNECT 639-3-11 1 EA
HIGHLIGHTED SIGN 700-6-12 1 AS

INSET B
SEE ITS PLAN (4)
IT-11

- NOTE:
- SEE ITS PLAN (4) (IT-11) FOR WRONG WAY DETECTION COVERAGE AREA.
 - SEE SIGNING PLANS FOR WWDS STATIC SIGN LOCATIONS.
 - PAY ITEM 700-6-12 INCLUDES THE LEDS, STATIC SIGN, SUPPORT STRUCTURE, FOUNDATION, CABINET AND HARDWARE.

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. WWDS PLAN (1) IT-23
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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WWDS-4-73.8-WB
SECONDARY WWDS
STA 7223+81, 312' LT
ELEC PULL BOX 635-2-11 1 EA
HIGHLIGHTED SIGN 700-6-12 1 AS

WWDS-4-73.8-WB
SECONDARY WWDS
STA 7219+88, 382' LT
ELEC PULL BOX 635-2-11 1 EA
HIGHLIGHTED SIGN 700-6-12 1 AS

1-2" HDPE 630-2-12 85 LF
DC POWER 639-2-1 85 LF

1-2" HDPE 630-2-12 50 LF
DC POWER 639-2-1 50 LF

WWDS LOCAL HUB
CAB-4-73.8-WB
STA 7219+60, 299' LT

12 SM FOC (SLACK)	633-1-121	50 LF
144 SM FOC (SLACK)	633-1-124	50 LF
PRETERM CONN ASSY	633-3-13	4 EA
PRETERM PATCH PANEL	633-3-15	1 EA
ELEC PULL BOX	635-2-11	1 EA
FO PULL BOX	635-2-12	1 EA
ELEC DISCONNECT	639-3-11	1 EA
TYPE P-II SERVICE POLE	641-2-12	1 EA
ITS CABINET (POLE MNT)	676-2-122	1 EA
MFES	684-1-1	1 EA
UPS	685-1-11	1 EA
RPMU	685-2-1	1 EA

INSET A
SEE ITS PLAN (5)
IT-12

INSET B
SEE ITS PLAN (5)
IT-12

WWDS-4-73.8-WB
PRIMARY WWDS
STA 7219+73, 299' LT
CAT6 CABLE (SLACK) 633-8-1 50 LF
ELEC PULL BOX 635-2-11 1 EA
FO PULL BOX 635-2-12 1 EA
VDS-WRONG WAY 660-7-11 1 EA
HIGHLIGHTED SIGN 700-6-12 1 AS

WWDS-4-73.8-WB
REMOTE WWDS
STA 7223+75, 262' LT
ELEC PULL BOX 635-2-11 1 EA
SERVICE DISCONNECT 639-3-11 1 EA
HIGHLIGHTED SIGN 700-6-12 1 AS

- NOTE:
- SEE ITS PLAN (5) (IT-12) FOR WRONG WAY DETECTION COVERAGE AREA.
 - SEE SIGNING PLANS FOR WWDS STATIC SIGN LOCATIONS.
 - PAY ITEM 700-6-12 INCLUDES THE LEDS, STATIC SIGN, SUPPORT STRUCTURE, FOUNDATION, CABINET AND HARDWARE.

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 400	ORANGE	444315-1-52-01	IT-24

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

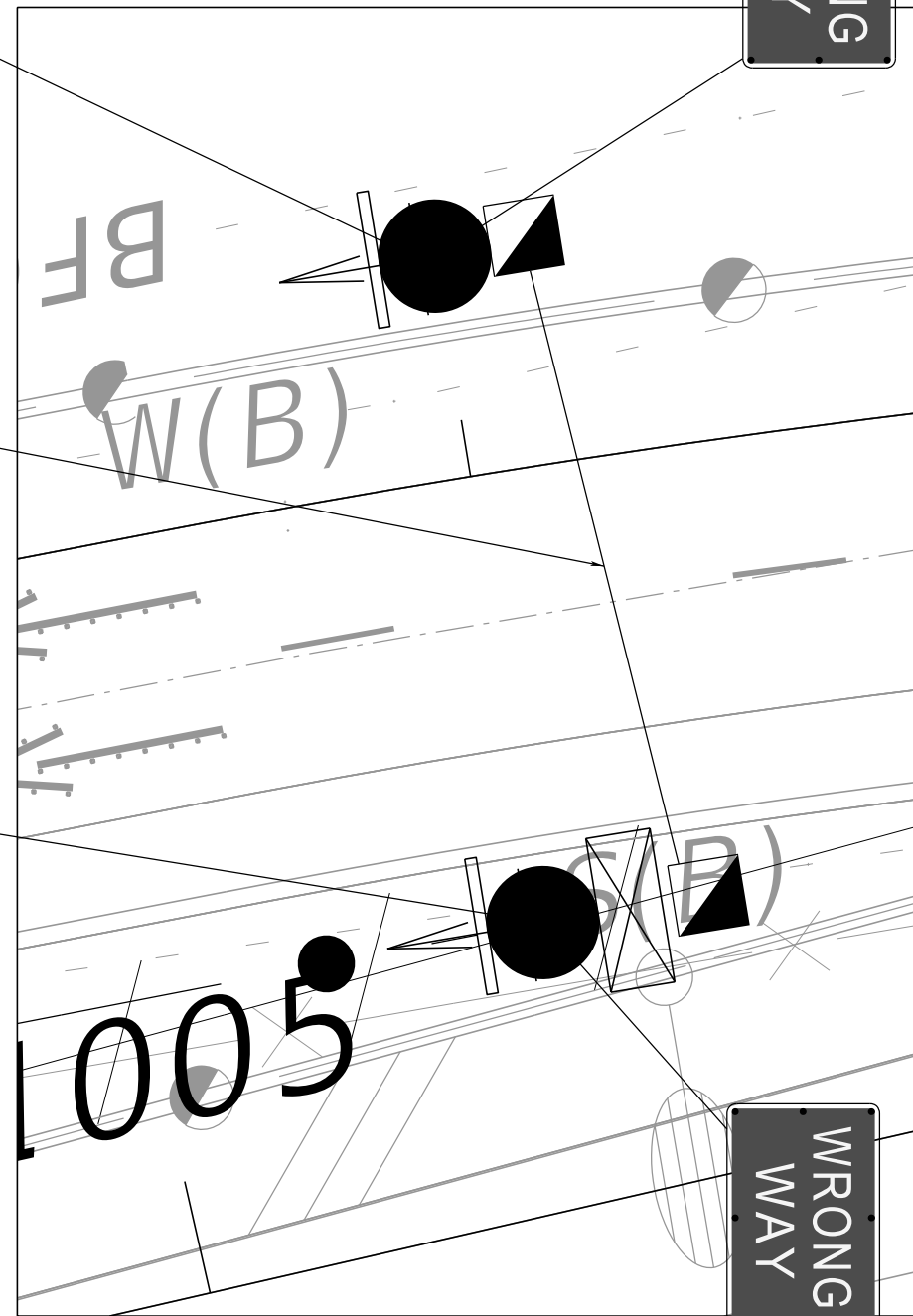
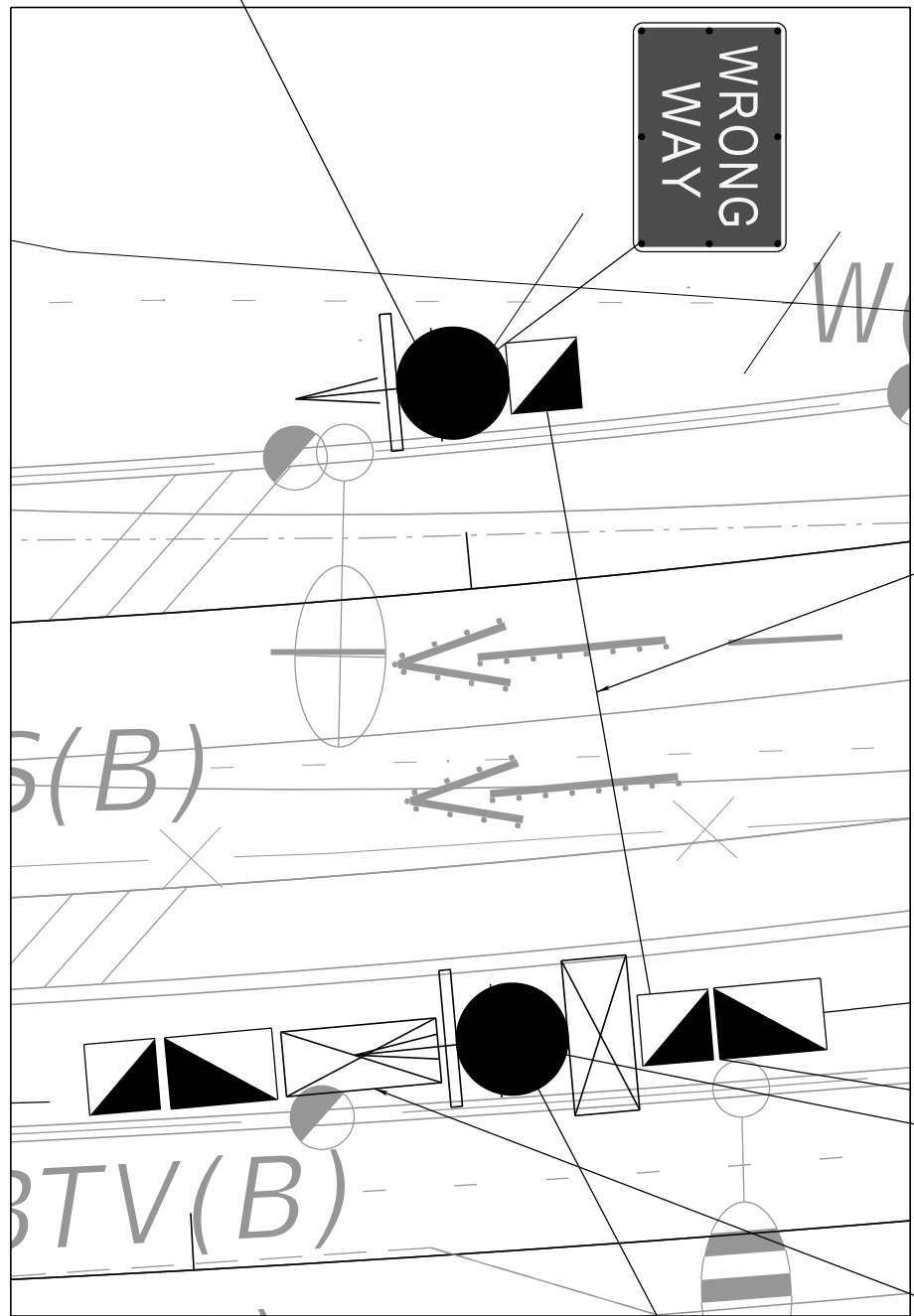
WWDS PLAN (2)

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WWDS-4-73.5-WB
SECONDARY WWDS
STA 7204+49, 264' LT
ELEC PULL BOX 635-2-11 1 EA
HIGHLIGHTED SIGN 700-6-12 1 AS

WWDS-4-73.5-WB
SECONDARY WWDS
STA 7208+40, 334' LT
ELEC PULL BOX 635-2-11 1 EA
HIGHLIGHTED SIGN 700-6-12 1 AS



1-2" HDPE 630-2-12 60 LF
DC POWER 639-2-1 60 LF

1-2" HDPE 630-2-12 60 LF
DC POWER 639-2-1 60 LF

WWDS-4-73.5-WB
REMOTE WWDS
STA 7208+47, 292' LT
ELEC PULL BOX 635-2-11 1 EA
SERVICE DISCONNECT 639-3-11 1 EA
HIGHLIGHTED SIGN 700-6-12 1 AS

WWDS-4-73.5-WB
PRIMARY WWDS
STA 7204+53, 215' LT
CAT6 CABLE (SLACK) 633-8-1 50 LF
ELEC PULL BOX 635-2-11 1 EA
FO PULL BOX 635-2-12 1 EA
VDS-WRONG WAY 660-7-11 1 EA
HIGHLIGHTED SIGN 700-6-12 1 AS

WWDS LOCAL HUB
CAB-4-73.5-WB
STA 7204+40, 213' LT
12 SM FOC (SLACK) 633-1-121 50 LF
144 SM FOC (SLACK) 633-1-124 50 LF
PRETERM CONN ASSY 633-3-13 4 EA
PRETERM PATCH PANEL 633-3-15 1 EA
ELEC PULL BOX 635-2-11 1 EA
FO PULL BOX 635-2-12 1 EA
ELEC DISCONNECT 639-3-11 1 EA
TYPE P-II SERVICE POLE 641-2-12 1 EA
ITS CABINET (POLE MNT) 676-2-122 1 EA
MFES 684-1-1 1 EA
UPS 685-1-11 1 EA
RPMU 685-2-1 1 EA

INSET A
SEE ITS PLAN (4)
IT-11

INSET B
SEE ITS PLAN (4)
IT-11

NOTE:
1. SEE ITS PLAN (4) (IT-11) FOR WRONG WAY DETECTION COVERAGE AREA.
2. SEE SIGNING PLANS FOR WWDS STATIC SIGN LOCATIONS.
3. PAY ITEM 700-6-12 INCLUDES THE LEDS, STATIC SIGN, SUPPORT STRUCTURE, FOUNDATION, CABINET AND HARDWARE.

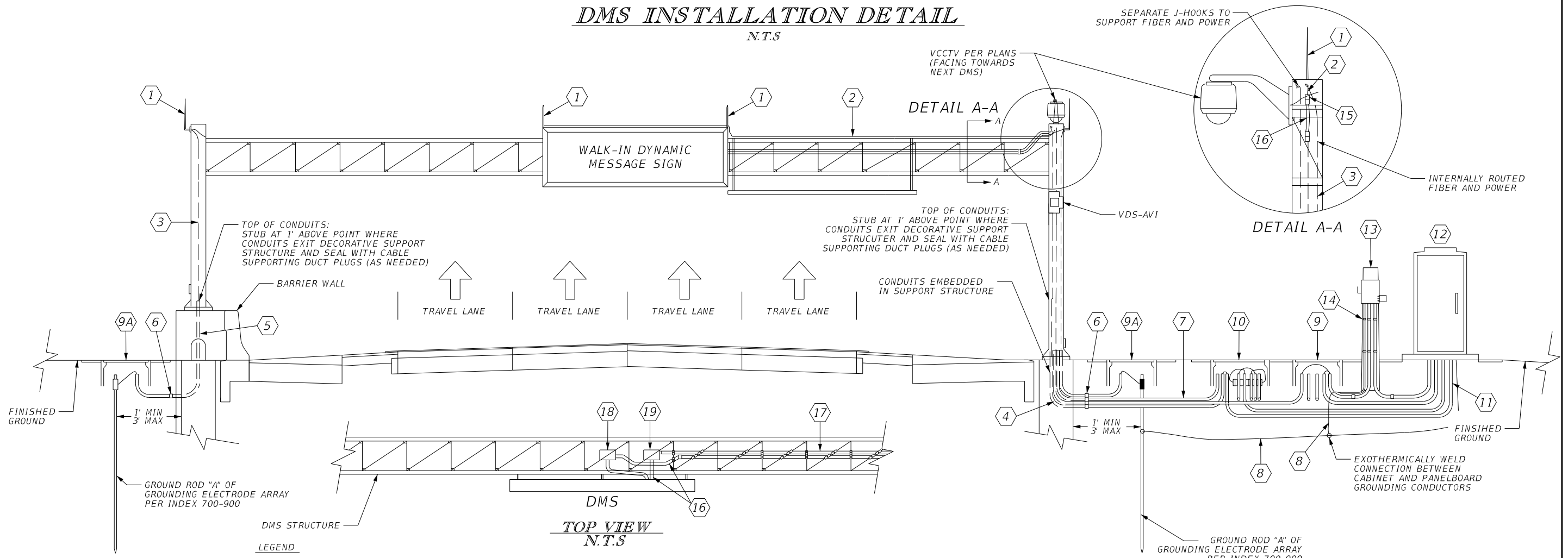


REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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DMS INSTALLATION DETAIL

N.T.S



LEGEND

- ① AIR TERMINAL PER FODT INDEX 700-900
- ② #2 AWG SOLID COPPER GROUNDING CONDUCTOR: BOND TO ALL AIR TERMINALS TO CREATE ELECTRICALLY CONTINUOUS CONNECTION AND STRAP TO STRUCTURE AT 3' O.C.
- ③ #2 AWG SOLID COPPER GROUNDING ELECTRODE CONDUCTOR: BOND TO AIR TERMINAL/STRUCTURE AND ROUTE INTERNALLY THROUGH DMS UPRIGHT AND CONDUIT TO GROUNDING ELECTRODE ARRAY
- ④ 4-2" HDPE CONDUITS (POWER, FIBER, GROUNDING, SPARE) EMBEDDED IN DMS SUPPORT STRUCTURE
- ⑤ 1-2" HDPE CONDUIT (GROUNDING) EMBEDDED IN DMS SUPPORT STRUCTURE
- ⑥ TRANSITION CONDUITS OUTSIDE OF FOUNDATION AT 36" MINIMUM DEPTH
- ⑦ 3-2" HDPE CONDUITS (POWER, FIBER, SPARE)
- ⑧ BOND PANELBOARD AND CABINET TO GROUNDING ELECTRODE ARRAY USING #2 AWG SOLID COPPER GROUNDING CONDUCTORS
- ⑨ ELECTRICAL PULL BOX
- ⑨A ELECTRICAL PULL BOX FOR GROUNDING
- ⑩ FIBER OPTIC PULL BOX
- ⑪ 4-2" HDPE CONDUITS (2-POWER & 2-FIBER) THROUGH GROUND MOUNTED CABINET BASE
- ⑫ LOCAL HUB CABINET
- ⑬ NEMA 3R PANELBOARD MOUNTED ON 12' TYPE P-II SERVICE POLE
- ⑭ 2-2" RGS CONDUITS (POWER) AND 1-½" RGS CONDUIT (GROUNDING) STRAPPED TO SERVICE POLE AT 3' O.C.
- ⑮ 2-2" LIQUIDTIGHT FLEXIBLE CONDUITS (POWER & FIBER) CONNECTED TO DMS UPRIGHT POLE WITH TREADED COUPLINGS
- ⑯ 2-2" LIQUIDTIGHT FLEXIBLE CONDUITS (POWER & FIBER) CONNECTED TO DMS PANELS, JUNCTION BOXES, AND RGS CONDUITS WITH LIQUIDTIGHT CONDUIT CONNECTORS. INSTALL REDUCER FITTINGS AS NECESSARY FOR CONNECTION TO DMS PANEL
- ⑰ 2-2" RGS CONDUITS (POWER & FIBER) STRAPPED TO TRUSS MEMBERS WITH STAINLESS STEEL STRAPS
- ⑱ SURFACE MOUNT JUNCTION BOX MOUNTED TO TRUSS MEMBER FOR POWER (12"x12"x3" NOMINAL SIZE)
- ⑲ SURFACE MOUNT JUNCTION BOX MOUNTED TO TRUSS MEMBER FOR POWER (12"x12"x3" NOMINAL SIZE)

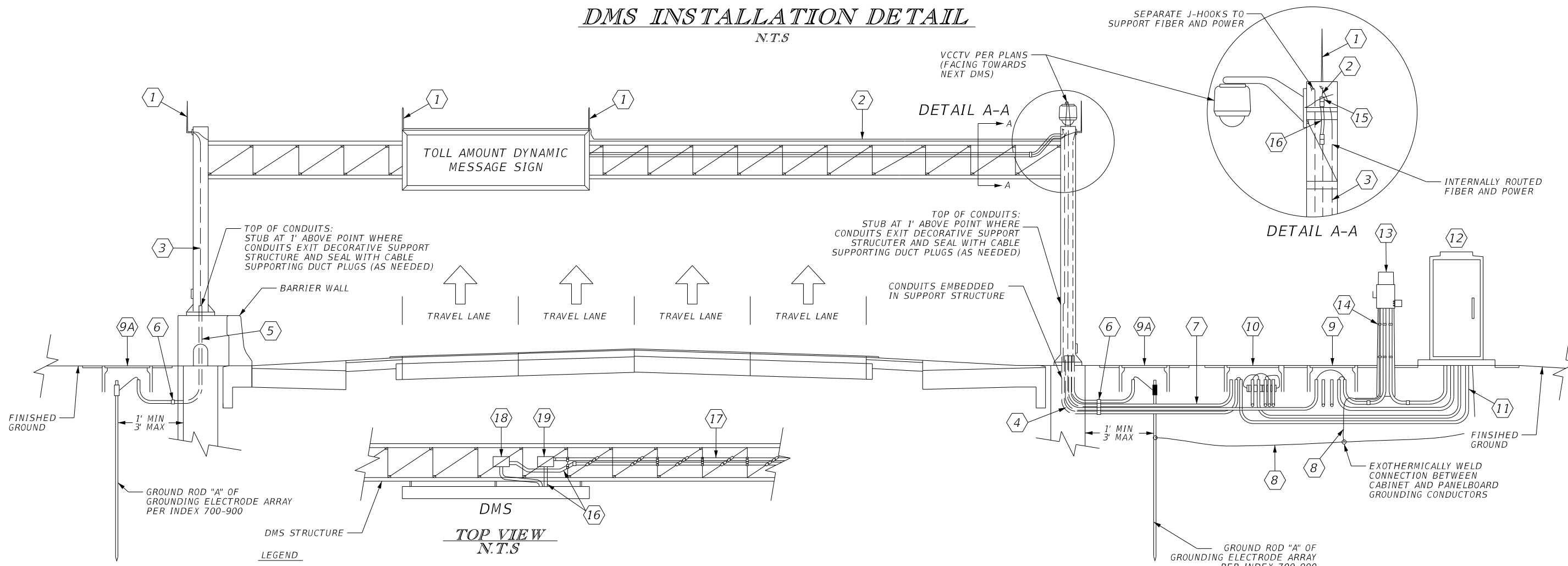
NOTES:

1. DMS STRUCTURE DEPICTED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY; REFER TO SIGNING AND STRUCTURAL PLANS FOR FURTHER INFORMATION REGARDING THE DMS SUPPORT STRUCTURE AND DMS PANEL ALIGNMENT.
2. ENSURE THAT MINIMUM BEND RADIUS FOR FIBER OPTIC CABLE IS MAINTAINED IN CONFORMANCE WITH THE CABLE MANUFACTURERS RECOMMENDED VALUES DURING INSTALLATION (SHORT TERM/DYNAMIC) AND AFTER INSTALLATION (LONG TERM/STATIC). INSTALL CONDUIT CONTAINING FIBER OPTIC CABLE IN A MANNER THAT SUPPORTS THIS REQUIREMENTS.

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			WALK-IN DMS GM CABINET INSTALLATION DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-26
					400	ORANGE	242484-7-32-01		

DMS INSTALLATION DETAIL

N.T.S



LEGEND

- ① AIR TERMINAL PER FODT INDEX 700-900
- ② #2 AWG SOLID COPPER GROUNDING CONDUCTOR: BOND TO ALL AIR TERMINALS TO CREATE ELECTRICALLY CONTINUOUS CONNECTION AND STRAP TO STRUCTURE AT 3' O.C.
- ③ #2 AWG SOLID COPPER GROUNDING ELECTRODE CONDUCTOR: BOND TO AIR TERMINAL/STRUCTURE AND ROUTE INTERNALLY THROUGH DMS UPRIGHT AND CONDUIT TO GROUNDING ELECTRODE ARRAY
- ④ 4-2" HDPE CONDUITS (POWER, FIBER, GROUNDING, SPARE) EMBEDDED IN DMS SUPPORT STRUCTURE
- ⑤ 1-2" HDPE CONDUIT (GROUNDING) EMBEDDED IN DMS SUPPORT STRUCTURE
- ⑥ TRANSITION CONDUITS OUTSIDE OF FOUNDATION AT 36" MINIMUM DEPTH
- ⑦ 3-2" HDPE CONDUITS (POWER, FIBER, SPARE)
- ⑧ BOND PANELBOARD AND CABINET TO GROUNDING ELECTRODE ARRAY USING #2 AWG SOLID COPPER GROUNDING CONDUCTORS
- ⑨ ELECTRICAL PULL BOX
- ⑨A ELECTRICAL PULL BOX FOR GROUNDING
- ⑩ FIBER OPTIC PULL BOX
- ⑪ 4-2" HDPE CONDUITS (2-POWER & 2-FIBER) THROUGH GROUND MOUNTED CABINET BASE
- ⑫ LOCAL HUB CABINET
- ⑬ NEMA 3R PANELBOARD MOUNTED ON 12' TYPE P-II SERVICE POLE
- ⑭ 2-2" RGS CONDUITS (POWER) AND 1-½" RGS CONDUIT (GROUNDING) STRAPPED TO SERVICE POLE AT 3' O.C.
- ⑮ 2-2" LIQUIDTIGHT FLEXIBLE CONDUITS (POWER & FIBER) CONNECTED TO DMS UPRIGHT POLE WITH TREADED COUPLINGS
- ⑯ 2-2" LIQUIDTIGHT FLEXIBLE CONDUITS (POWER & FIBER) CONNECTED TO DMS PANELS, JUNCTION BOXES, AND RGS CONDUITS WITH LIQUIDTIGHT CONDUIT CONNECTORS. INSTALL REDUCER FITTINGS AS NECESSARY FOR CONNECTION TO DMS PANEL
- ⑰ 2-2" RGS CONDUITS (POWER & FIBER) STRAPPED TO TRUSS MEMBERS WITH STAINLESS STEEL STRAPS
- ⑱ SURFACE MOUNT JUNCTION BOX MOUNTED TO TRUSS MEMBER FOR POWER (12"x12"x3" NOMINAL SIZE)
- ⑲ SURFACE MOUNT JUNCTION BOX MOUNTED TO TRUSS MEMBER FOR POWER (12"x12"x3" NOMINAL SIZE)

NOTES:

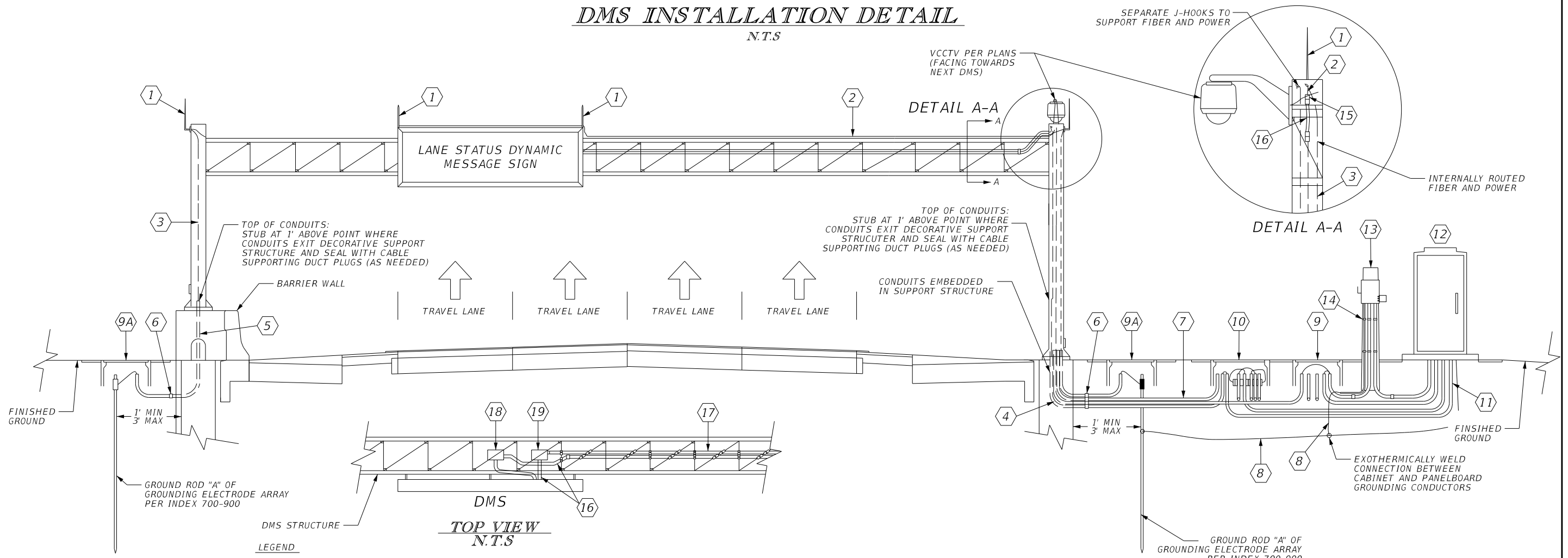
1. DMS STRUCTURE DEPICTED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY; REFER TO SIGNING AND STRUCTURAL PLANS FOR FURTHER INFORMATION REGARDING THE DMS SUPPORT STRUCTURE AND DMS PANEL ALIGNMENT.
2. ENSURE THAT MINIMUM BEND RADIUS FOR FIBER OPTIC CABLE IS MAINTAINED IN CONFORMANCE WITH THE CABLE MANUFACTURERS RECOMMENDED VALUES DURING INSTALLATION (SHORT TERM/DYNAMIC) AND AFTER INSTALLATION (LONG TERM/STATIC). INSTALL CONDUIT CONTAINING FIBER OPTIC CABLE IN A MANNER THAT SUPPORTS THIS REQUIREMENTS.

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TADMS GM CABINET INSTALLATION DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-27
					400	ORANGE	242484-7-32-01		

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DMS INSTALLATION DETAIL

N.T.S



LEGEND

- ① AIR TERMINAL PER FODT INDEX 700-900
- ② #2 AWG SOLID COPPER GROUNDING CONDUCTOR: BOND TO ALL AIR TERMINALS TO CREATE ELECTRICALLY CONTINUOUS CONNECTION AND STRAP TO STRUCTURE AT 3' O.C.
- ③ #2 AWG SOLID COPPER GROUNDING ELECTRODE CONDUCTOR: BOND TO AIR TERMINAL/STRUCTURE AND ROUTE INTERNALLY THROUGH DMS UPRIGHT AND CONDUIT TO GROUNDING ELECTRODE ARRAY
- ④ 4-2" HDPE CONDUITS (POWER, FIBER, GROUNDING, SPARE) EMBEDDED IN DMS SUPPORT STRUCTURE
- ⑤ 1-2" HDPE CONDUIT (GROUNDING) EMBEDDED IN DMS SUPPORT STRUCTURE
- ⑥ TRANSITION CONDUITS OUTSIDE OF FOUNDATION AT 36" MINIMUM DEPTH
- ⑦ 3-2" HDPE CONDUITS (POWER, FIBER, SPARE)
- ⑧ BOND PANELBOARD AND CABINET TO GROUNDING ELECTRODE ARRAY USING #2 AWG SOLID COPPER GROUNDING CONDUCTORS
- ⑨ ELECTRICAL PULL BOX
- ⑨A ELECTRICAL PULL BOX FOR GROUNDING
- ⑩ FIBER OPTIC PULL BOX
- ⑪ 4-2" HDPE CONDUITS (2-POWER & 2-FIBER) THROUGH GROUND MOUNTED CABINET BASE
- ⑫ LOCAL HUB CABINET
- ⑬ NEMA 3R PANELBOARD MOUNTED ON 12' TYPE P-II SERVICE POLE
- ⑭ 2-2" RGS CONDUITS (POWER) AND 1-½" RGS CONDUIT (GROUNDING) STRAPPED TO SERVICE POLE AT 3' O.C.
- ⑮ 2-2" LIQUIDTIGHT FLEXIBLE CONDUITS (POWER & FIBER) CONNECTED TO DMS UPRIGHT POLE WITH TREADED COUPLINGS
- ⑯ 2-2" LIQUIDTIGHT FLEXIBLE CONDUITS (POWER & FIBER) CONNECTED TO DMS PANELS, JUNCTION BOXES, AND RGS CONDUITS WITH LIQUIDTIGHT CONDUIT CONNECTORS. INSTALL REDUCER FITTINGS AS NECESSARY FOR CONNECTION TO DMS PANEL
- ⑰ 2-2" RGS CONDUITS (POWER & FIBER) STRAPPED TO TRUSS MEMBERS WITH STAINLESS STEEL STRAPS
- ⑱ SURFACE MOUNT JUNCTION BOX MOUNTED TO TRUSS MEMBER FOR POWER (12"x12"x3" NOMINAL SIZE)
- ⑲ SURFACE MOUNT JUNCTION BOX MOUNTED TO TRUSS MEMBER FOR POWER (12"x12"x3" NOMINAL SIZE)

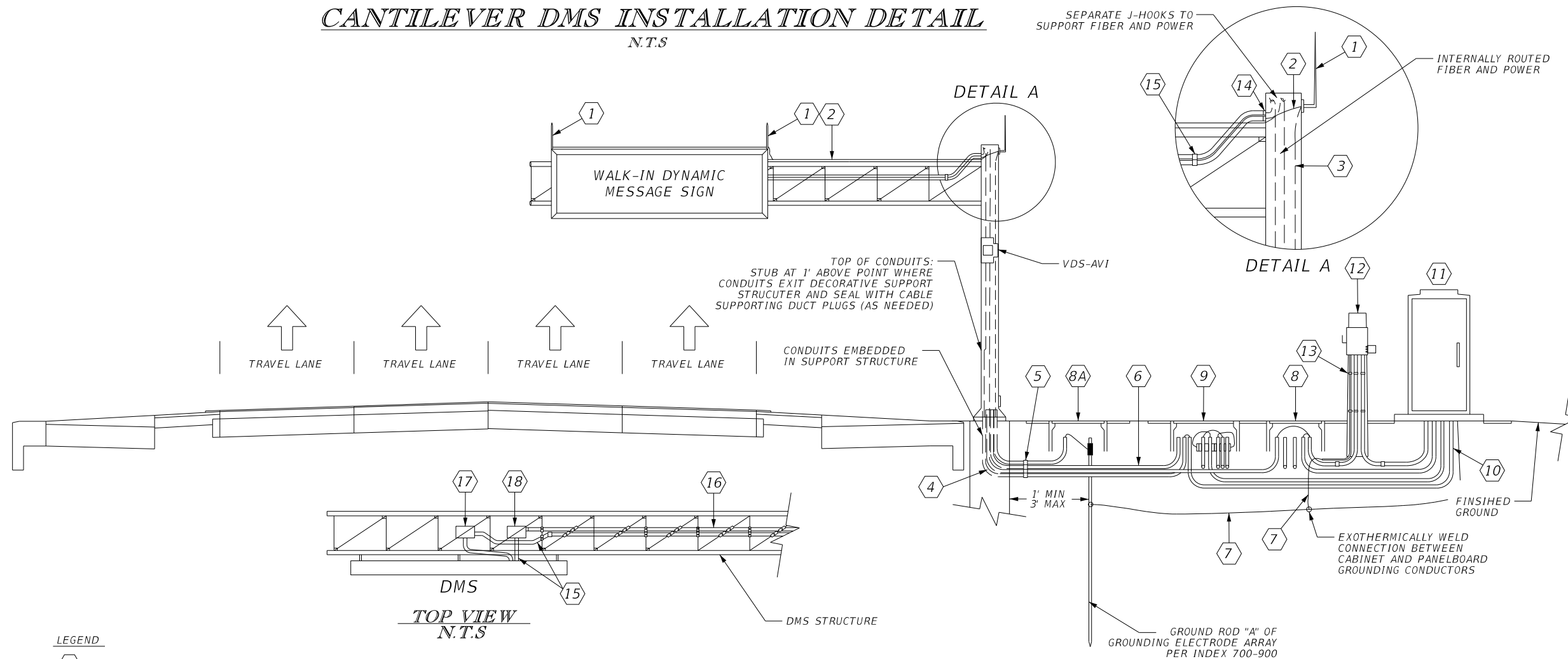
NOTES:

1. DMS STRUCTURE DEPICTED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY; REFER TO SIGNING AND STRUCTURAL PLANS FOR FURTHER INFORMATION REGARDING THE DMS SUPPORT STRUCTURE AND DMS PANEL ALIGNMENT.
2. ENSURE THAT MINIMUM BEND RADIUS FOR FIBER OPTIC CABLE IS MAINTAINED IN CONFORMANCE WITH THE CABLE MANUFACTURERS RECOMMENDED VALUES DURING INSTALLATION (SHORT TERM/DYNAMIC) AND AFTER INSTALLATION (LONG TERM/STATIC). INSTALL CONDUIT CONTAINING FIBER OPTIC CABLE IN A MANNER THAT SUPPORTS THIS REQUIREMENTS.

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LSDMS GM CABINET INSTALLATION DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-28
					400	ORANGE	242484-7-32-01		

CANTILEVER DMS INSTALLATION DETAIL

N.T.S



LEGEND

- ① AIR TERMINAL PER FODT INDEX 700-900
- ② #2 AWG SOLID COPPER GROUNDING CONDUCTOR: BOND TO ALL AIR TERMINALS TO CREATE ELECTRICALLY CONTINUOUS CONNECTION AND STRAP TO STRUCTURE AT 3' O.C.
- ③ #2 AWG SOLID COPPER GROUNDING ELECTRODE CONDUCTOR: BOND TO AIR TERMINAL/STRUCTURE AND ROUTE INTERNALLY THROUGH DMS UPRIGHT AND CONDUIT TO GROUNDING ELECTRODE ARRAY
- ④ 4-2" HDPE CONDUITS (POWER, FIBER, GROUNDING, SPARE) EMBEDDED IN DMS SUPPORT STRUCTURE
- ⑤ TRANSITION CONDUITS OUTSIDE OF FOUNDATION AT 36" MINIMUM DEPTH
- ⑥ 3-2" HDPE CONDUITS (POWER, FIBER, SPARE)
- ⑦ BOND PANELBOARD AND CABINET TO GROUNDING ELECTRODE ARRAY USING #2 AWG SOLID COPPER GROUNDING CONDUCTORS
- ⑧ ELECTRICAL PULL BOX
- ⑧A ELECTRICAL PULL BOX FOR GROUNDING
- ⑨ FIBER OPTIC PULL BOX
- ⑩ 4-2" HDPE CONDUITS (2-POWER & 2-FIBER) THROUGH GROUND MOUNTED CABINET BASE
- ⑪ LOCAL HUB CABINET
- ⑫ NEMA 3R PANELBOARD MOUNTED ON 12" TYPE P-II SERVICE POLE
- ⑬ 2-2" RGS CONDUITS (POWER) AND 1-1/2" RGS CONDUIT (GROUNDING) STRAPPED TO SERVICE POLE AT 3' O.C.
- ⑭ 2-2" LIQUIDTIGHT FLEXIBLE CONDUITS (POWER & FIBER) CONNECTED TO DMS UPRIGHT POLE WITH TREADED COUPLINGS
- ⑮ 2-2" LIQUIDTIGHT FLEXIBLE CONDUITS (POWER & FIBER) CONNECTED TO DMS PANELS, JUNCTION BOXES, AND RGS CONDUITS WITH LIQUIDTIGHT CONDUIT CONNECTORS. INSTALL REDUCER FITTINGS AS NECESSARY FOR CONNECTION TO DMS PANEL
- ⑯ 2-2" RGS CONDUITS (POWER & FIBER) STRAPPED TO TRUSS MEMBERS WITH STAINLESS STEEL STRAPS
- ⑰ SURFACE MOUNT JUNCTION BOX MOUNTED TO TRUSS MEMBER FOR POWER (12"x12"x3" NOMINAL SIZE)
- ⑱ SURFACE MOUNT JUNCTION BOX MOUNTED TO TRUSS MEMBER FOR POWER (12"x12"x3" NOMINAL SIZE)

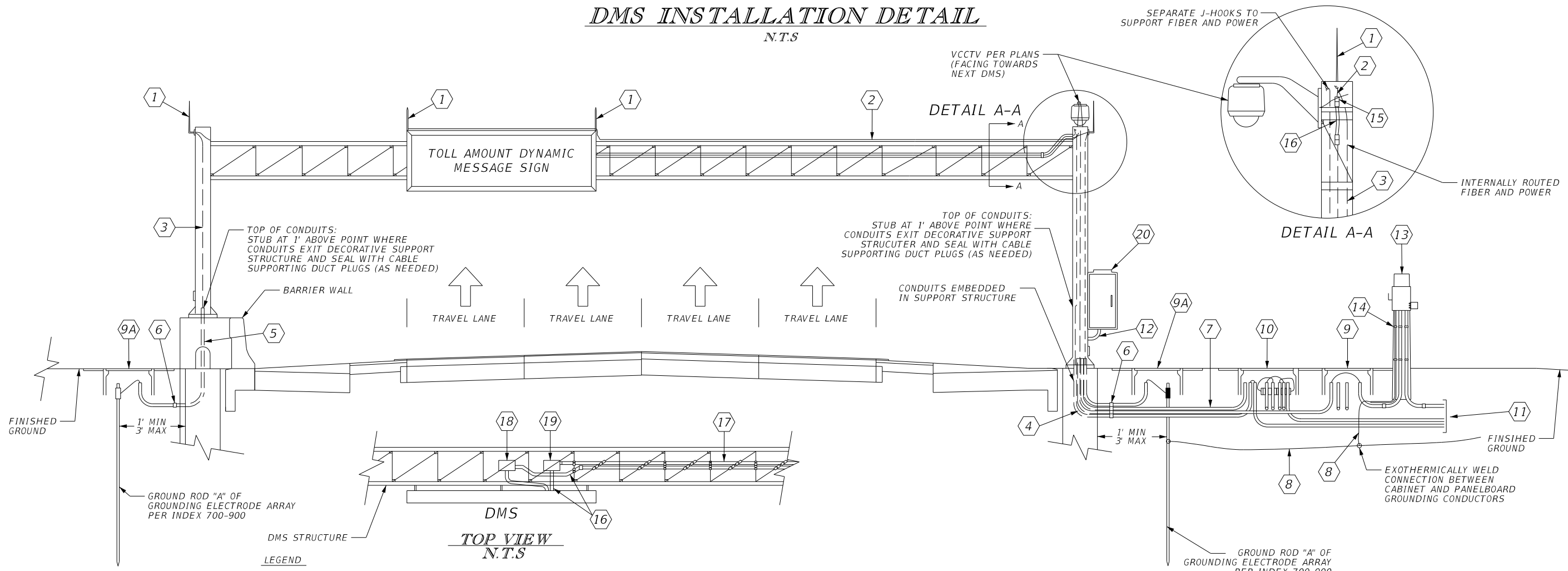
NOTES:

1. DMS STRUCTURE DEPICTED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY; REFER TO SIGNING AND STRUCTURAL PLANS FOR FURTHER INFORMATION REGARDING THE DMS SUPPORT STRUCTURE AND DMS PANEL ALIGNMENT.
2. ENSURE THAT MINIMUM BEND RADIUS FOR FIBER OPTIC CABLE IS MAINTAINED IN CONFORMANCE WITH THE CABLE MANUFACTURERS RECOMMENDED VALUES DURING INSTALLATION (SHORT TERM/DYNAMIC) AND AFTER INSTALLATION (LONG TERM/STATIC). INSTALL CONDUIT CONTAINING FIBER OPTIC CABLE IN A MANNER THAT SUPPORTS THIS REQUIREMENTS.

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CANTILEVER DMS GM CABINET INSTALLATION DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-29
					400	ORANGE	242484-7-32-01		

DMS INSTALLATION DETAIL

N.T.S



LEGEND

- ① AIR TERMINAL PER FODT INDEX 700-900
- ② #2 AWG SOLID COPPER GROUNDING CONDUCTOR: BOND TO ALL AIR TERMINALS TO CREATE ELECTRICALLY CONTINUOUS CONNECTION AND STRAP TO STRUCTURE AT 3' O.C.
- ③ #2 AWG SOLID COPPER GROUNDING ELECTRODE CONDUCTOR: BOND TO AIR TERMINAL/STRUCTURE AND ROUTE INTERNALLY THROUGH DMS UPRIGHT AND CONDUIT TO GROUNDING ELECTRODE ARRAY
- ④ 4-2" HDPE CONDUITS (POWER, FIBER, GROUNDING, SPARE) EMBEDDED IN DMS SUPPORT STRUCTURE
- ⑤ 1-2" HDPE CONDUIT (GROUNDING) EMBEDDED IN DMS SUPPORT STRUCTURE
- ⑥ TRANSITION CONDUITS OUTSIDE OF FOUNDATION AT 36" MINIMUM DEPTH
- ⑦ 3-2" HDPE CONDUITS (POWER, FIBER, SPARE)
- ⑧ BOND PANELBOARD AND CABINET TO GROUNDING ELECTRODE ARRAY USING #2 AWG SOLID COPPER GROUNDING CONDUCTORS
- ⑨ ELECTRICAL PULL BOX
- ⑨A ELECTRICAL PULL BOX FOR GROUNDING
- ⑩ FIBER OPTIC PULL BOX
- ⑪ 1-2" HDPE CONDUIT FOR INCOMING POWER & 2-1.25" HDPE CONDUIT FOR INCOMING FIBER
- ⑫ 2-2" RIGID METAL CONDUITS (1-POWER, 1-FIBER)
- ⑬ NEMA 3R PANELBOARD MOUNTED ON 12' TYPE P-II SERVICE POLE
- ⑭ 2-2" RGS CONDUITS (POWER) AND 1-½" RGS CONDUIT (GROUNDING) STRAPPED TO SERVICE POLE AT 3' O.C.
- ⑮ 2-2" LIQUIDTIGHT FLEXIBLE CONDUITS (POWER & FIBER) CONNECTED TO DMS UPRIGHT POLE WITH TREADED COUPLINGS
- ⑯ 2-2" LIQUIDTIGHT FLEXIBLE CONDUITS (POWER & FIBER) CONNECTED TO DMS PANELS, JUNCTION BOXES, AND RGS CONDUITS WITH LIQUIDTIGHT CONDUIT CONNECTORS. INSTALL REDUCER FITTINGS AS NECESSARY FOR CONNECTION TO DMS PANEL
- ⑰ 2-2" RGS CONDUITS (POWER & FIBER) STRAPPED TO TRUSS MEMBERS WITH STAINLESS STEEL STRAPS
- ⑱ SURFACE MOUNT JUNCTION BOX MOUNTED TO TRUSS MEMBER FOR POWER (12"x12"x3" NOMINAL SIZE)
- ⑲ SURFACE MOUNT JUNCTION BOX MOUNTED TO TRUSS MEMBER FOR POWER (12"x12"x3" NOMINAL SIZE)
- ⑳ POLE MOUNTED DMS CABINET (LOCAL HUB)

NOTES:

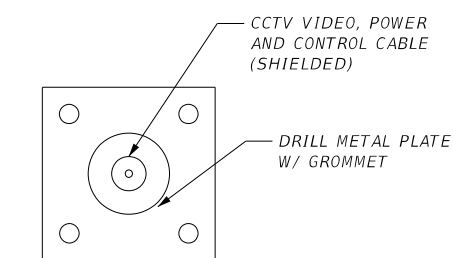
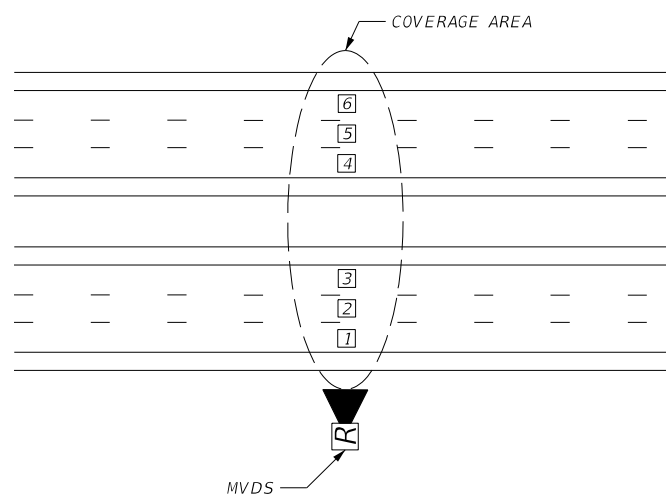
1. DMS STRUCTURE DEPICTED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY; REFER TO SIGNING AND STRUCTURAL PLANS FOR FURTHER INFORMATION REGARDING THE DMS SUPPORT STRUCTURE AND DMS PANEL ALIGNMENT.
2. ENSURE THAT MINIMUM BEND RADIUS FOR FIBER OPTIC CABLE IS MAINTAINED IN CONFORMANCE WITH THE CABLE MANUFACTURERS RECOMMENDED VALUES DURING INSTALLATION (SHORT TERM/DYNAMIC) AND AFTER INSTALLATION (LONG TERM/STATIC). INSTALL CONDUIT CONTAINING FIBER OPTIC CABLE IN A MANNER THAT SUPPORTS THIS REQUIREMENTS.

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DMS POLE MOUNT CABINET INSTALLATION DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-30
					400	ORANGE	242484-7-32-01		

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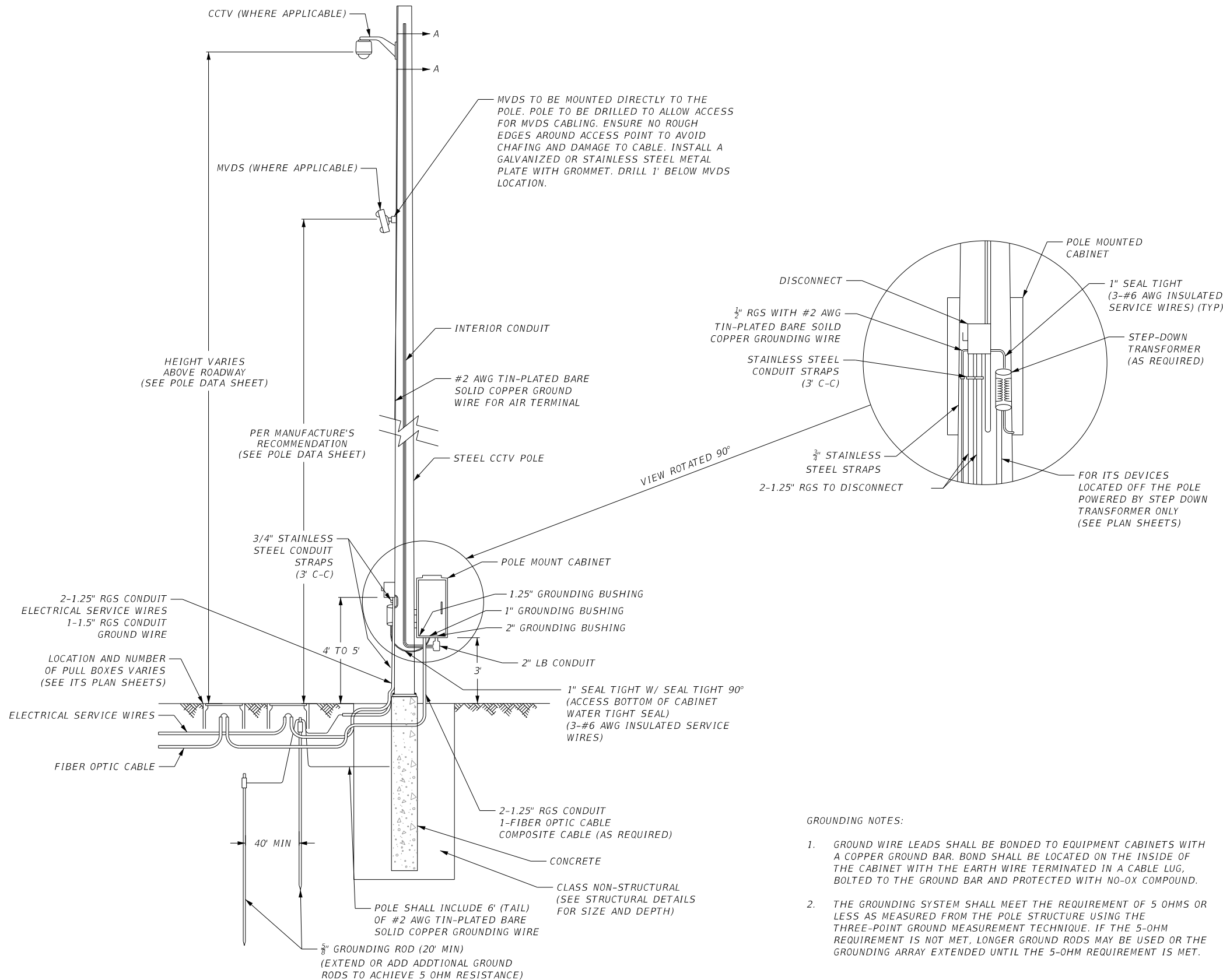
TYPICAL CCTV & MVDS INSTALLATION DETAILS

TYPICAL DIVIDED HIGHWAY



SECTION A-A
NTS

- NOTES:
1. MOUNT CCTV CAMERA ON THE SIDE OF POLE NEAREST INTENDED FIELD OF VIEW AND AVOID OCCLUDING THE VIEW WITH THE POLE.
 2. POLE MOUNTED CABINET TO BE ORIENTED PER THE ITS PLAN SHEETS.



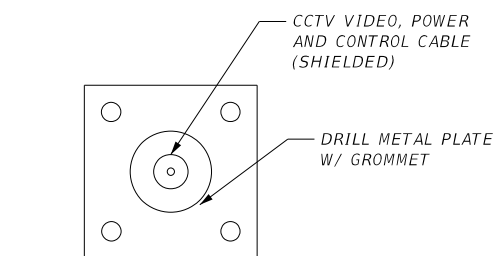
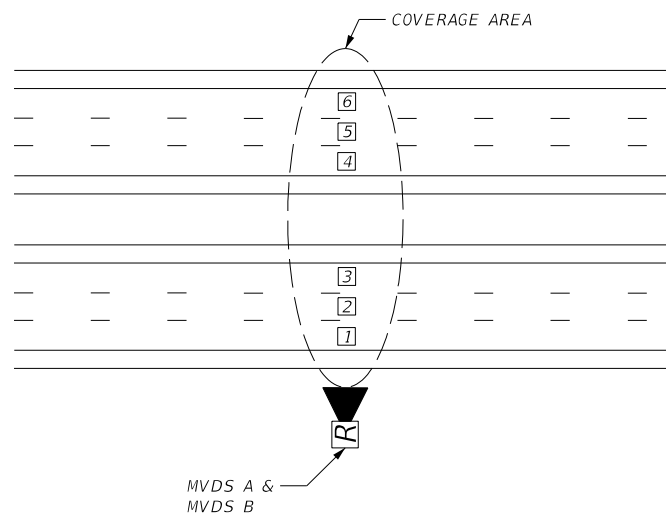
- GROUNDING NOTES:
1. GROUND WIRE LEADS SHALL BE BONDED TO EQUIPMENT CABINETS WITH A COPPER GROUND BAR. BOND SHALL BE LOCATED ON THE INSIDE OF THE CABINET WITH THE EARTH WIRE TERMINATED IN A CABLE LUG, BOLTED TO THE GROUND BAR AND PROTECTED WITH NO-OX COMPOUND.
 2. THE GROUNDING SYSTEM SHALL MEET THE 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.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-31
					SR 400	ORANGE	444315-1-52-01		

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TYPICAL CCTV & 2-MVDS INSTALLATION DETAILS

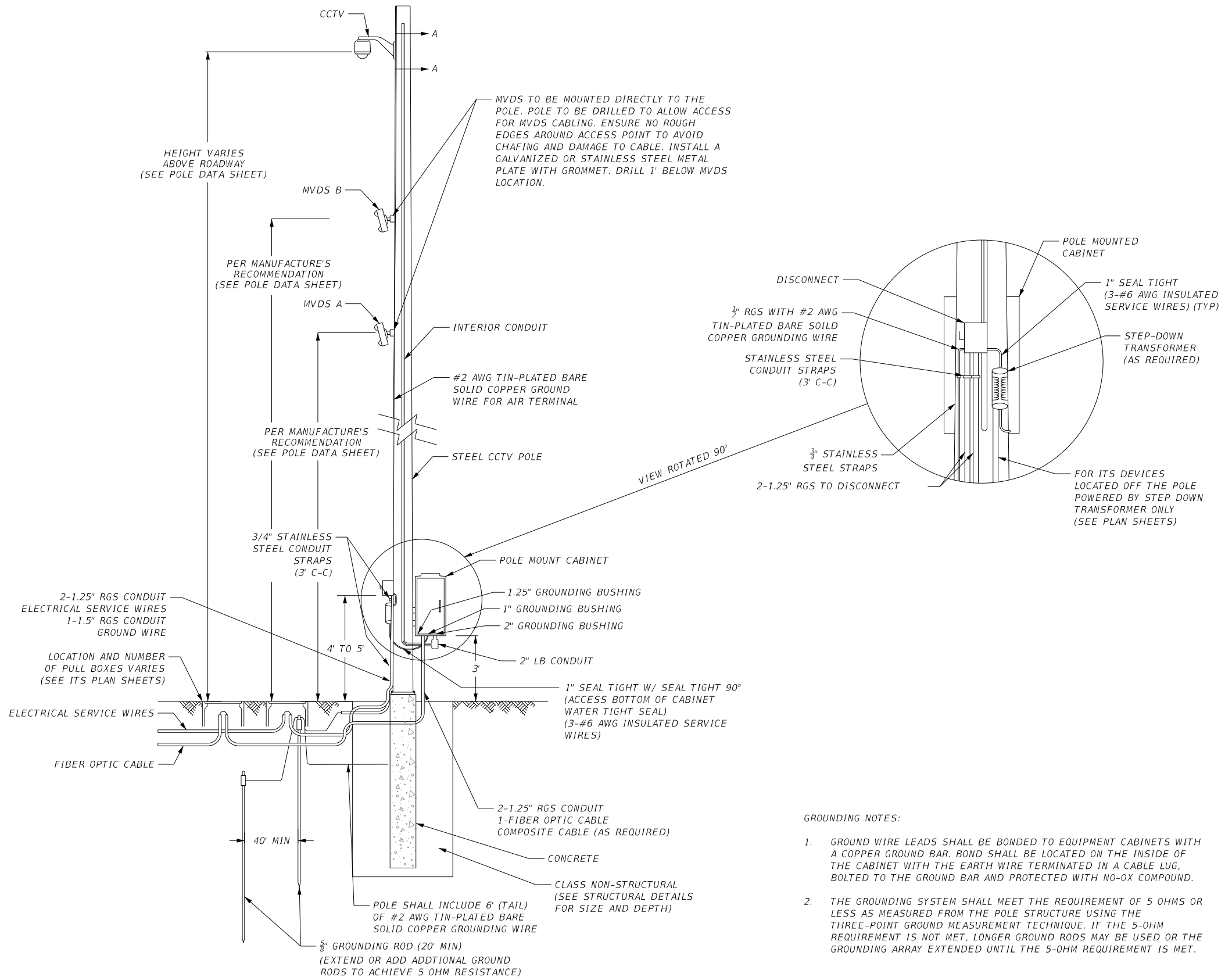
TYPICAL DIVIDED HIGHWAY



SECTION A-A
NTS

NOTES:

1. MOUNT CCTV CAMERA ON THE SIDE OF POLE NEAREST INTENDED FIELD OF VIEW AND AVOID OCCLUDING THE VIEW WITH THE POLE.
2. POLE MOUNTED CABINET TO BE ORIENTED PER THE ITS PLAN SHEETS.



GROUNDING NOTES:

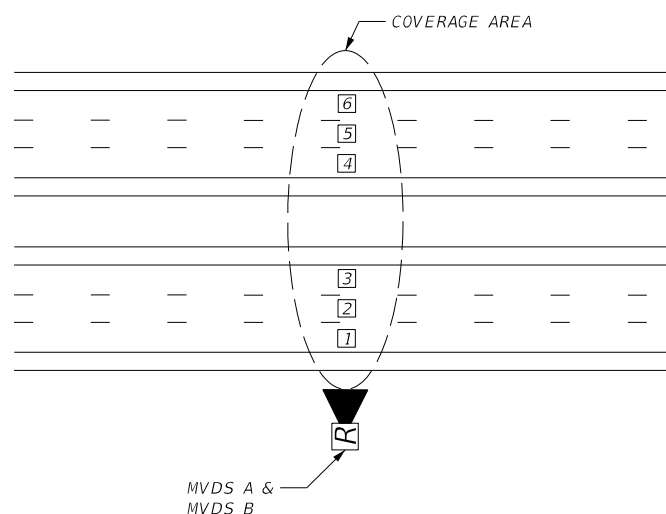
1. GROUND WIRE LEADS SHALL BE BONDED TO EQUIPMENT CABINETS WITH A COPPER GROUND BAR. BOND SHALL BE LOCATED ON THE INSIDE OF THE CABINET WITH THE EARTH WIRE TERMINATED IN A CABLE LUG, BOLTED TO THE GROUND BAR AND PROTECTED WITH NO-OX COMPOUND.
2. THE GROUNDING SYSTEM SHALL MEET THE REQUIREMENT OF 5 OHMS 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.

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ITS MOUNTING DETAILS (2) IT-32
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

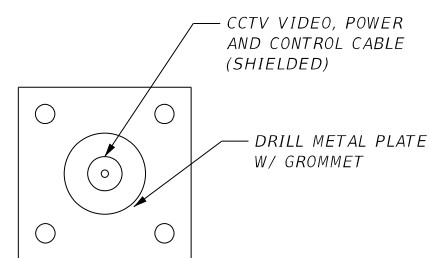
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TYPICAL 2-MVDS INSTALLATION DETAILS

TYPICAL DIVIDED HIGHWAY

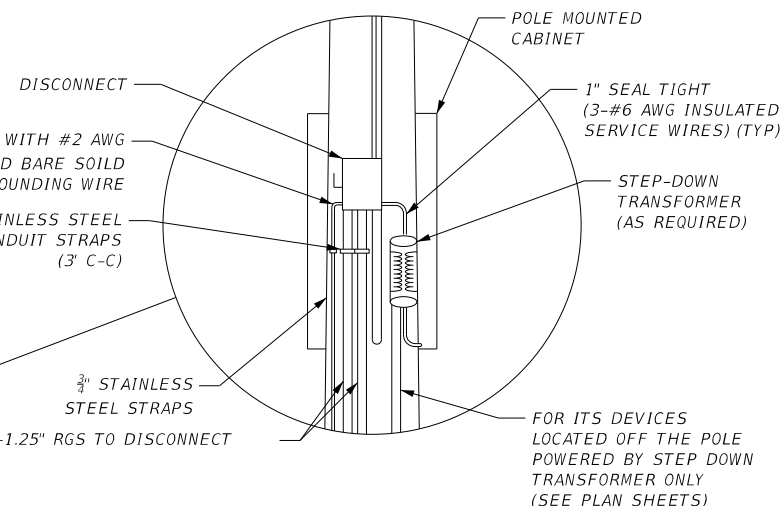
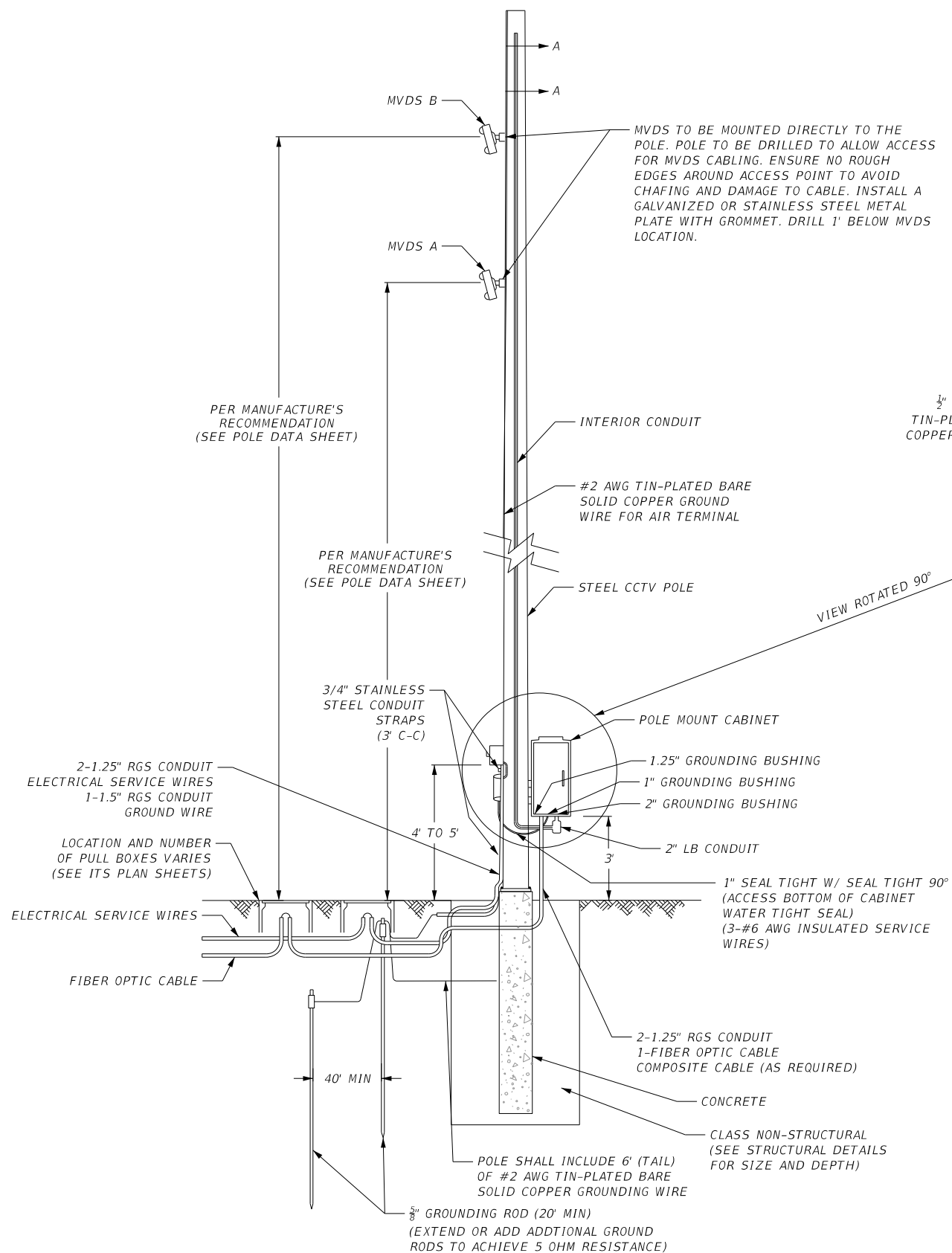


MVDS A & MVDS B



SECTION A-A
NTS

- NOTES:
- POLE MOUNTED CABINET TO BE ORIENTED PER THE ITS PLAN SHEETS.



- 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.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

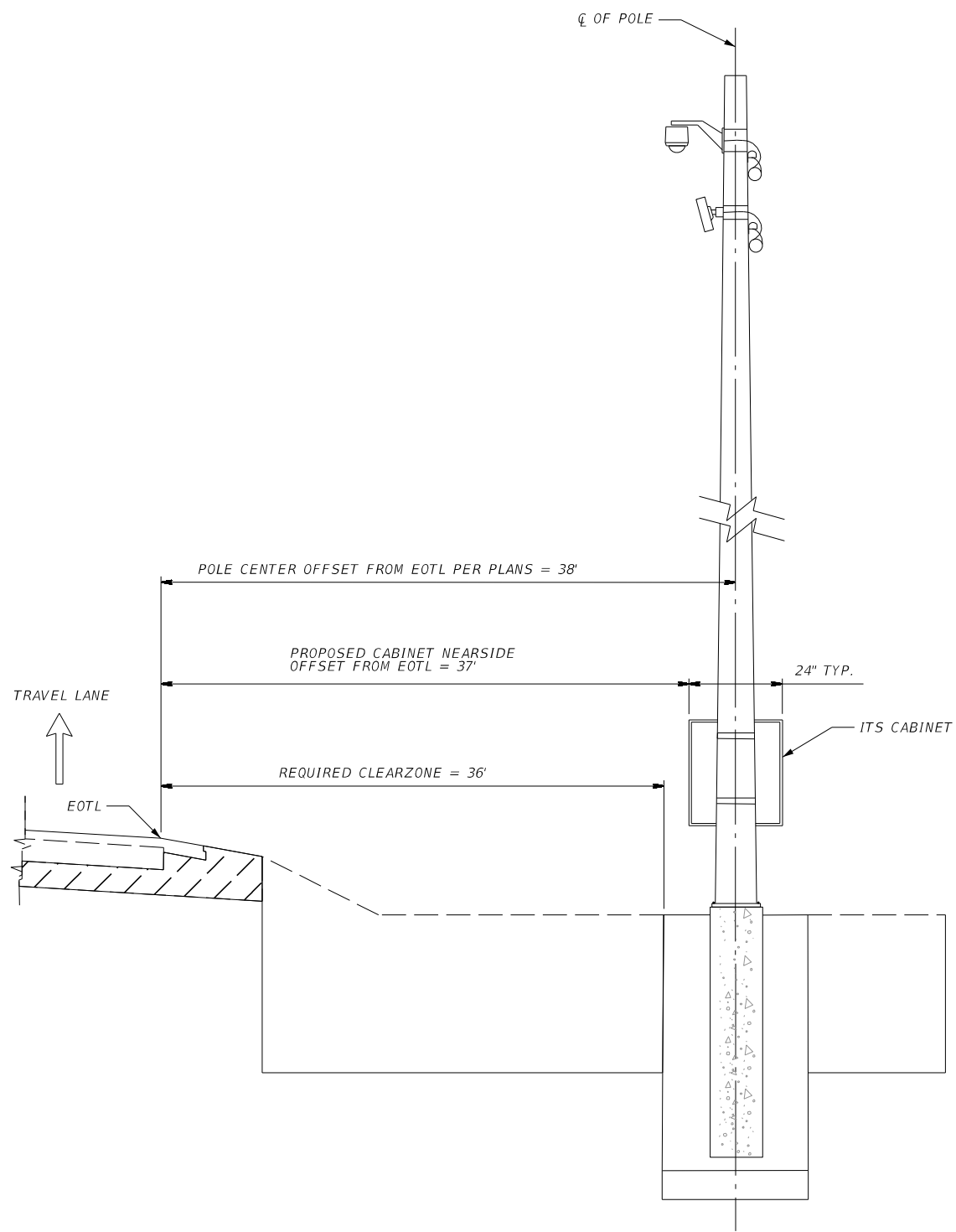
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P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

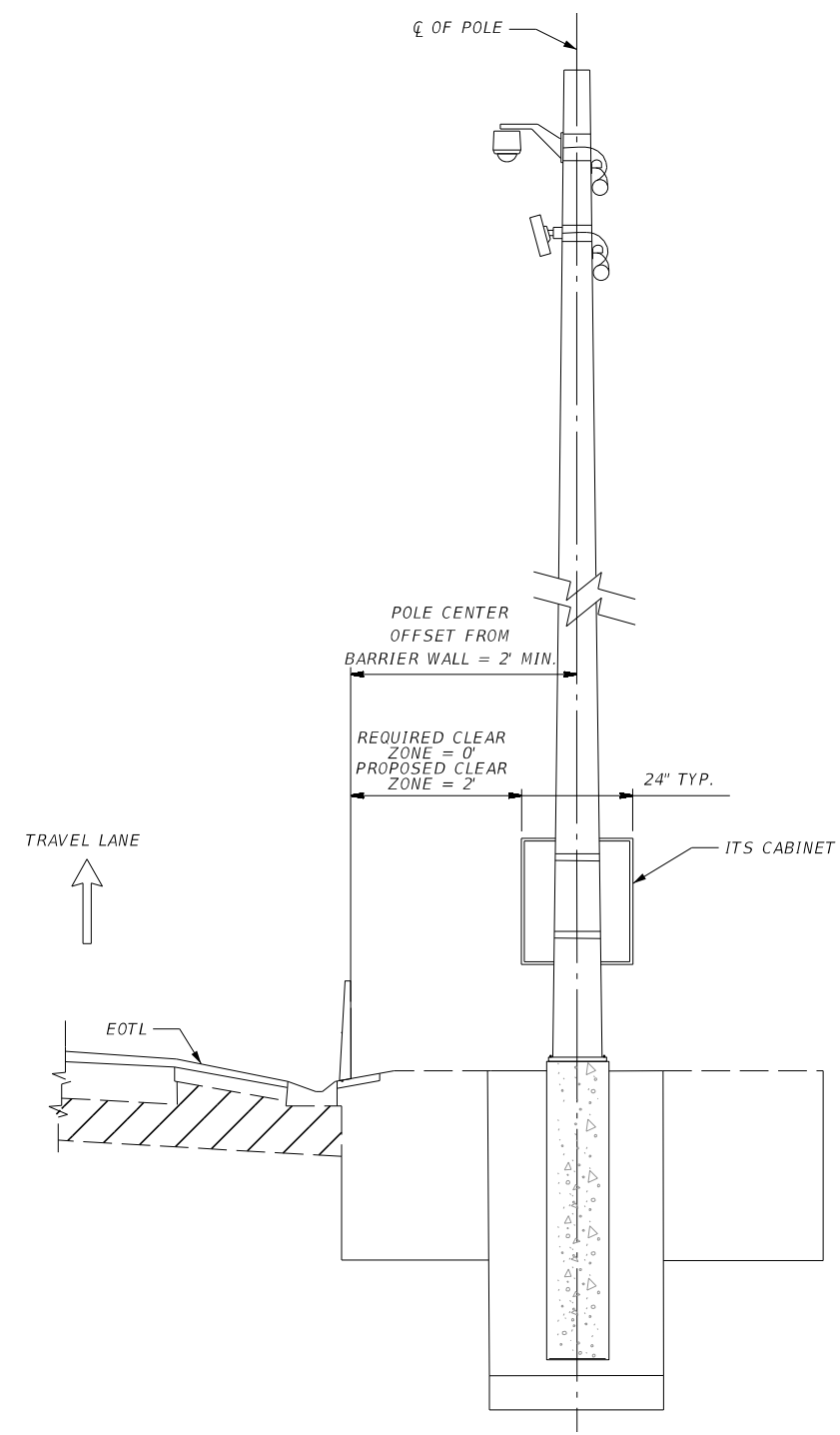
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS MOUNTING DETAILS (3)

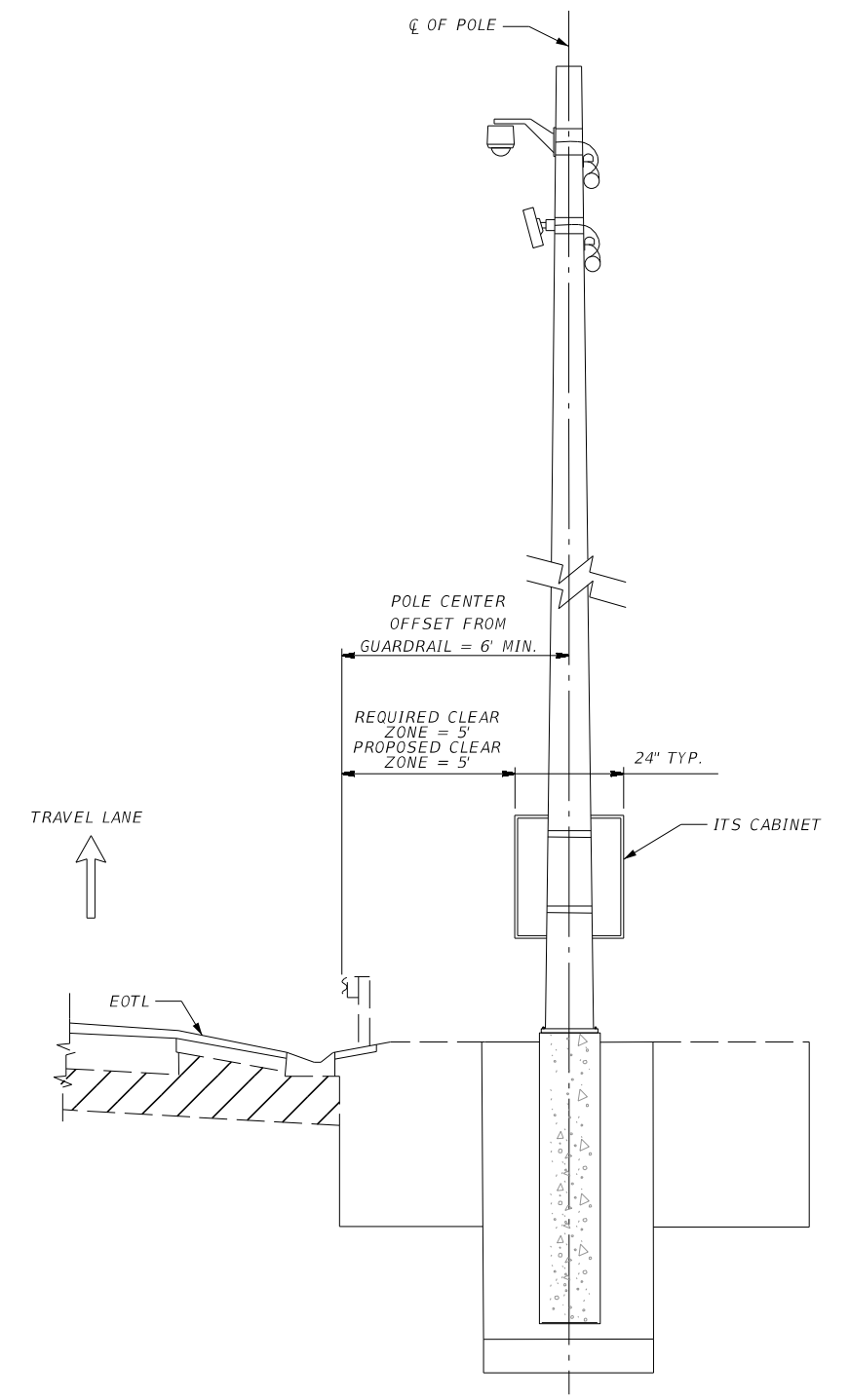
SHEET NO.
IT-33



TYPICAL EOTL CLEAR ZONE DETAIL
NTS



TYPICAL BARRIER WALL CLEAR ZONE DETAIL
NTS



TYPICAL GUARDRAIL CLEAR ZONE DETAIL
NTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

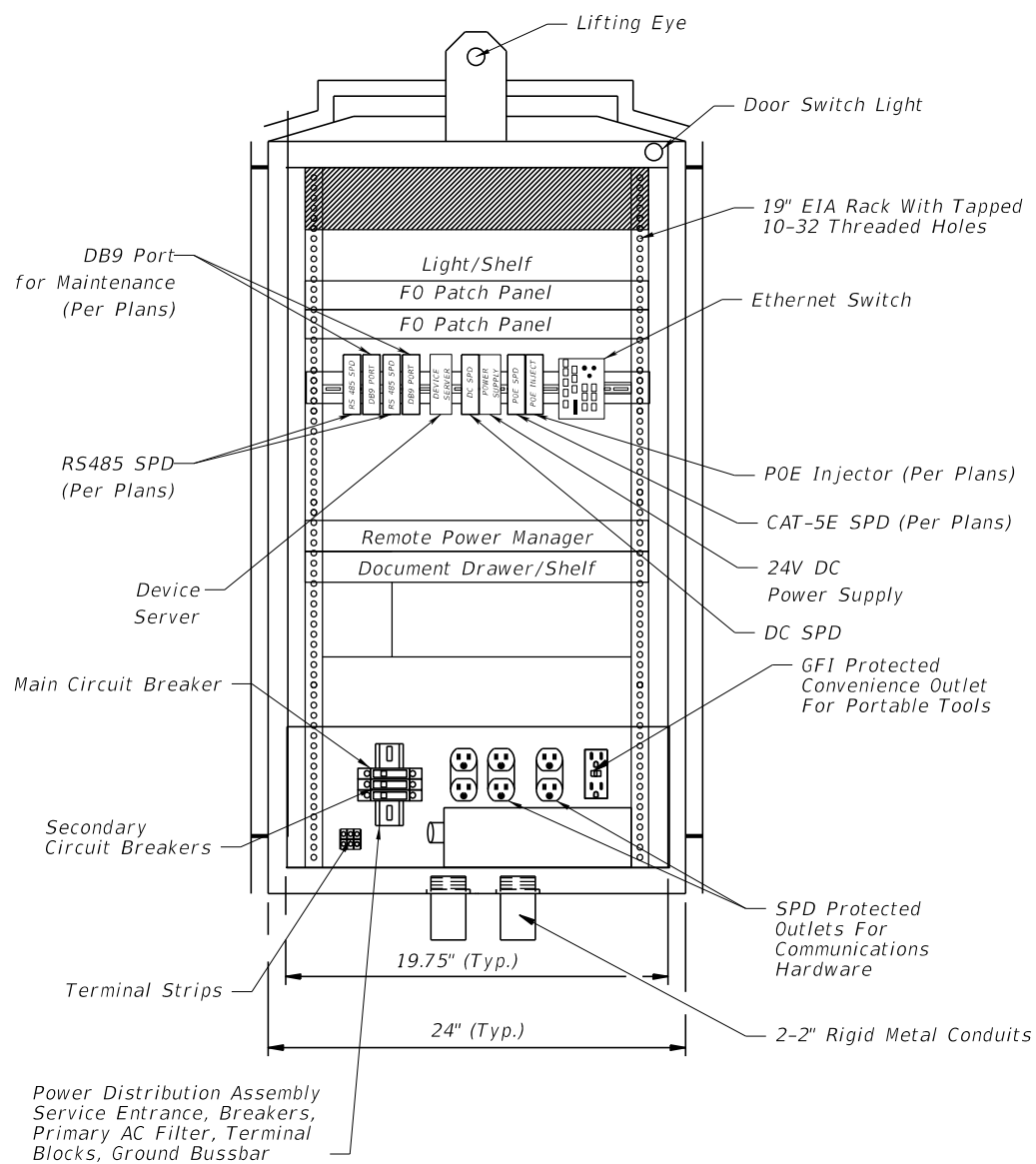
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

CLEAR ZONE DETAIL

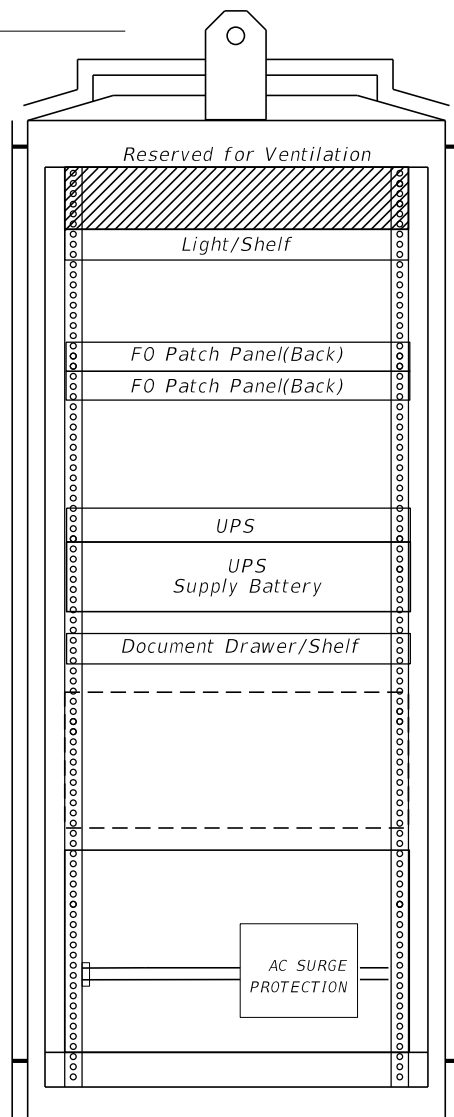
SHEET NO.
IT-34

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TYPICAL LOCAL HUB CABINET LAYOUT
 TYPE 336S POLE MOUNTED
 (2-MVDS & 1-CCTV OR
 1-MVDS & 1-VCCTV OR
 1-MVDS OR
 2-MVDS)

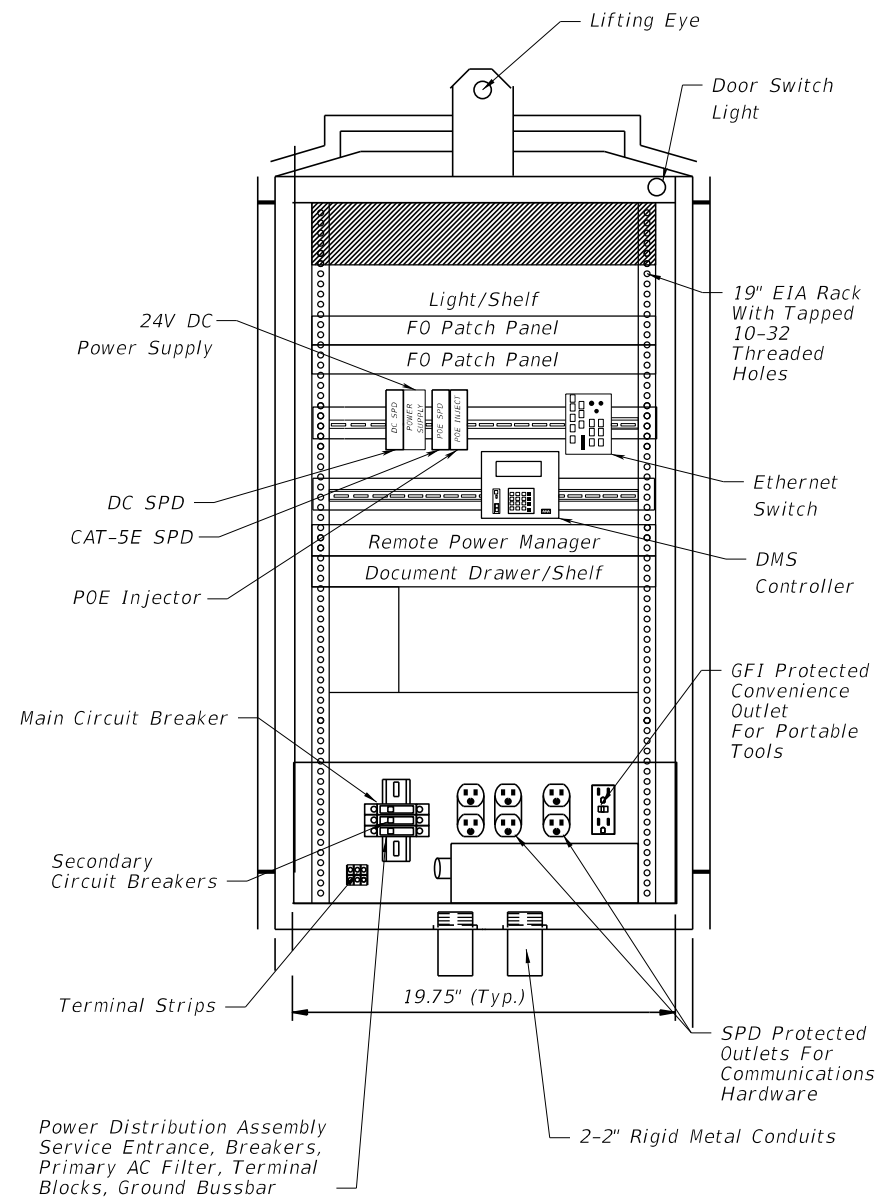


FRONT VIEW

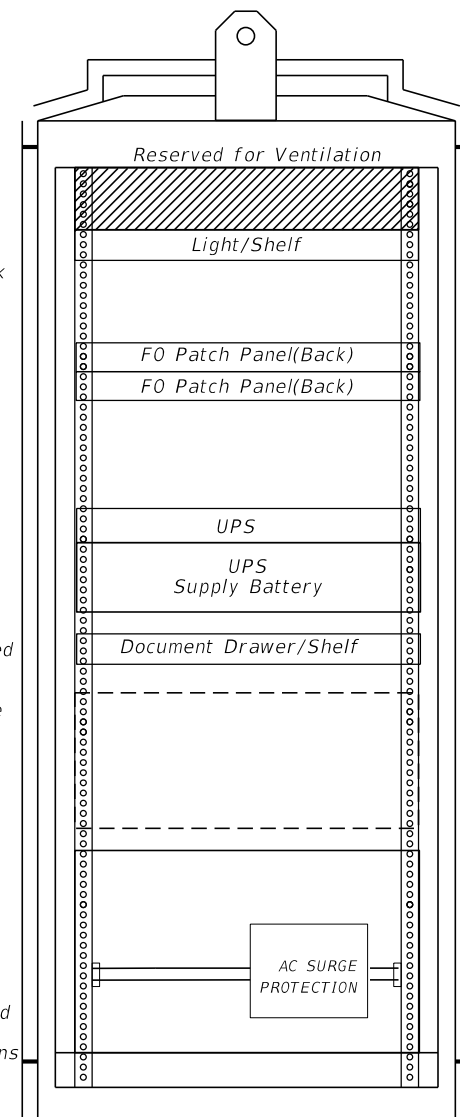


BACK VIEW

TYPICAL LOCAL HUB CABINET LAYOUT
 TYPE 336S POLE MOUNTED
 (1-DMS & 1-VCCTV)



FRONT VIEW



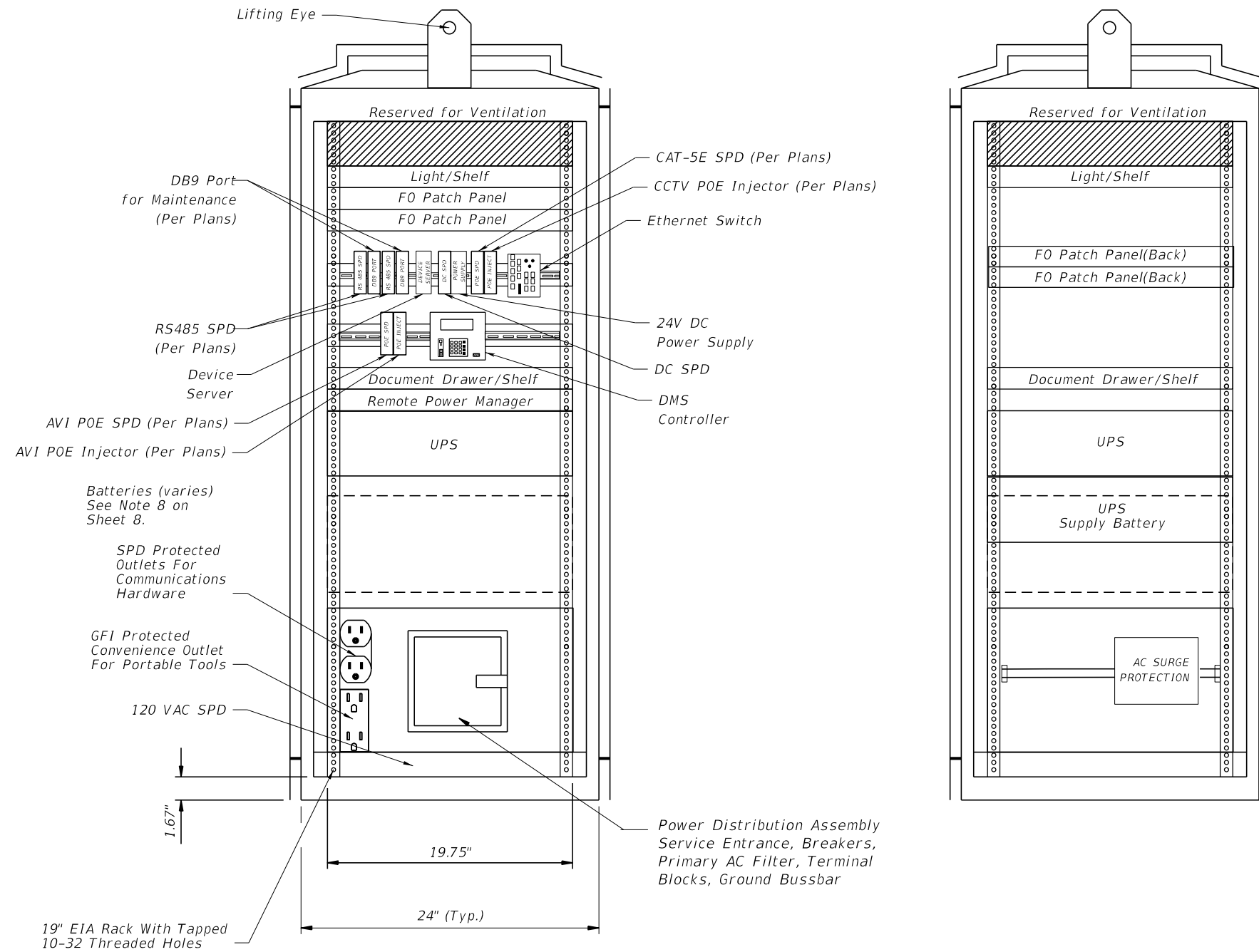
BACK VIEW

1. CABINET EQUIPMENT VARIES PER CABINET BASED ON COMMUNICATIONS AND POWER REQUIREMENTS. REFER TO WIRING DETAILS FOR SPECIFIC REQUIREMENTS.
2. ALL DIMENSIONS AND EQUIPMENT LOCATIONS ARE APPROXIMATE.
3. CONDUIT ENTRANCES ARE AT BOTTOM OF CABINET.
4. MINIMUM NUMBER OF DUPLEX OUTLETS IS THREE, (2) SPD PROTECTED AND (1) GFI PROTECTED.
5. EITHER AN ACCESS CONTROLLER OR LOCAL ACCESS PANEL SHALL BE PROVIDED TO PROVIDE FULL ACCESS TO DMS FOR CONTROL, PROGRAMMING AND TROUBLESHOOTING.
6. UPS MAY NOT BE PLUGGED INTO GFCI OUTLET.
7. POWER DISTRIBUTION ASSEMBLY COMPONENT LAYOUT, ORIENTATION AND LOCATION MAY VARY.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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TYPICAL TYPE 334 DMS & VCCTV
GROUND MOUNTED CABINET
(1-DMS, 2-MVDS, 1-CCTV & 1-AVI OR
1-DMS, 1-MVDS & 1-VCCTV OR
1-DMS & 1-VCCTV)



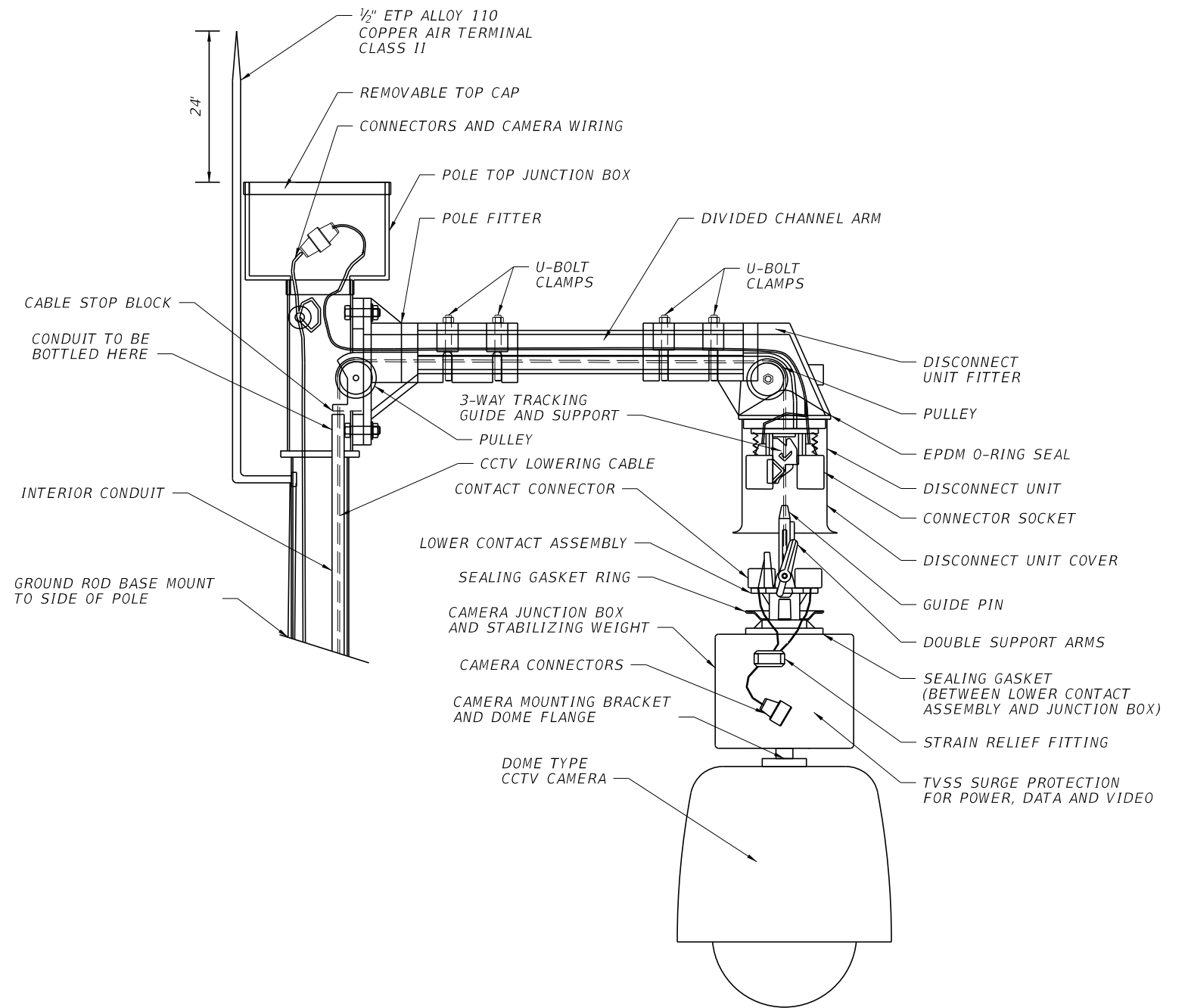
FRONT VIEW

BACK VIEW

1. ALL DIMENSIONS AND EQUIPMENT LOCATIONS ARE APPROXIMATE.
2. CONDUIT ENTRANCES ARE AT BOTTOM OF CABINET.
3. MINIMUM NUMBER OF DUPLEX OUTLETS IS THREE, (2) SPD PROTECTED AND (1) GFI PROTECTED.
4. EITHER AN ACCESS CONTROLLER OR LOCAL ACCESS PANEL SHALL BE PROVIDED TO PROVIDE FULL ACCESS TO DMS FOR CONTROL, PROGRAMMING AND TROUBLESHOOTING.
5. BATTERIES AND UPS MAY BE LOCATED IN SIGN HOUSING OR CABINET.
6. POWER DISTRIBUTION ASSEMBLY COMPONENT LAYOUT, ORIENTATION AND LOCATION MAY VARY.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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CAMERA LOWERING DEVICE DETAIL

CAMERA MOUNTING WITH LOWERING DEVICE

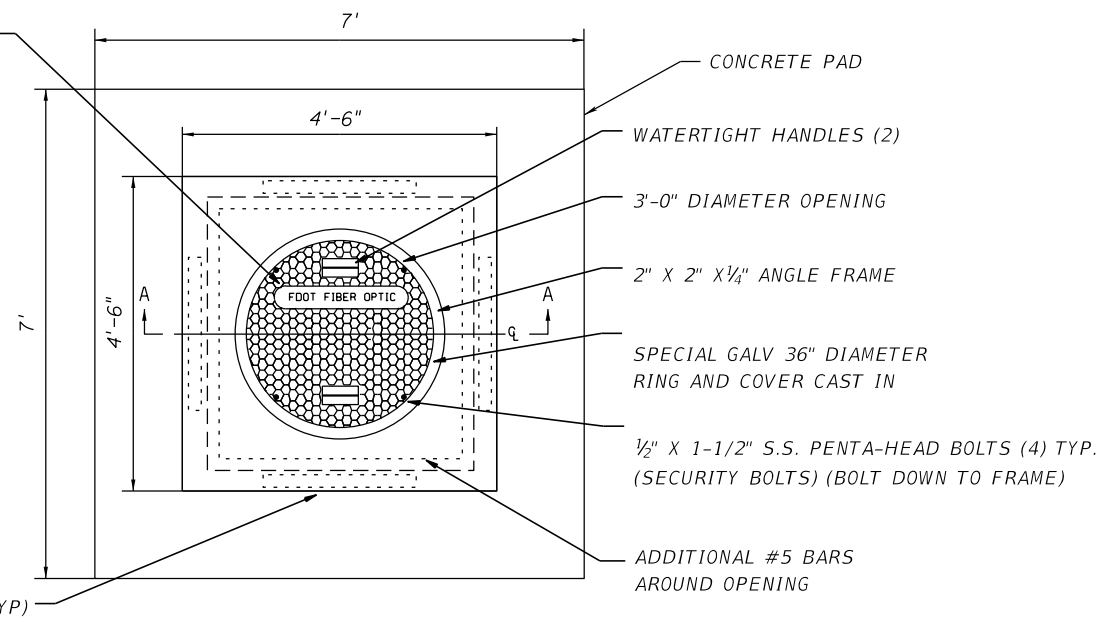
GENERAL NOTES:

1. LOWERING DEVICE TO BE SHIPPED READY FOR POLE ATTACHMENT TO INCLUDE 100 FT. OF COMPOSITE POWER AND SIGNAL CABLE PREWIRED TO LOWERING DEVICE AT THE FACTORY.
2. THE LOWERING DEVICE MANUFACTURER SHALL SUPPLY BOTH A PORTABLE LOWERING TOOL WITH A MANUAL HAND CRANK AND A HALF-INCH CHUCK VARIABLE-SPEED REVERSIBLE INDUSTRIAL-DUTY ELECTRIC DRILL THAT MATCHES THE WINCH'S MANUFACTURER-RECOMMENDED REVOLUTIONS PER MINUTE. ONE LOWERING TOOL PER EVERY 10 LOWERING DEVICES IS REQUIRED.
3. THE LOWERING DEVICE MANUFACTURER SHALL PROVIDE AN ON-SITE INSTALLATION INSPECTION AND OPERATOR INSTRUCTION AND CERTIFICATION. THIS ENSURES THE PRODUCT IS ASSEMBLED CORRECTLY AND THAT ALL NECESSARY PERSONS ARE TRAINED IN THE PROPER, SAFE OPERATION OF THE SYSTEM. BEFORE ERECTING THE FIRST POLE THE CONTRACTOR MUST CONTACT THE LOWERING DEVICE SUPPLIER AND SCHEDULE A MANUFACTURER'S REPRESENTATIVE TO BE ON-SITE.
4. DESIGN CAMERA MOUNTING ARM AND CONNECTION TO TENON ACCORDING TO FDOT STRUCTURES MANUAL (CURRENT EDITION).
5. CAMERA TO BE MOUNTED TO CAMERA JUNCTION BOX AND STABILIZING WEIGHT VIA 1 1/2" STANDARD NPT PIPE THREAD.
6. USE AIR TERMINAL EXTENSION WHEN THE POLE TOP JUNCTION BOX IS WIDER THAN TOP OF POLE.
7. THE STAINLESS STEEL DEVICE LOWERING CABLE SHALL BE INSTALLED INSIDE THE POLE WITHIN A 1 1/4" DIAMETER PVC CONDUIT.
8. ALL COMMUNICATION AND POWER CABLES MUST BE NEATLY BUNDLED AND SECURED.
9. USE A CAMERA LOWERING DEVICE LISTED ON THE APPROVED PRODUCT LIST (APL).

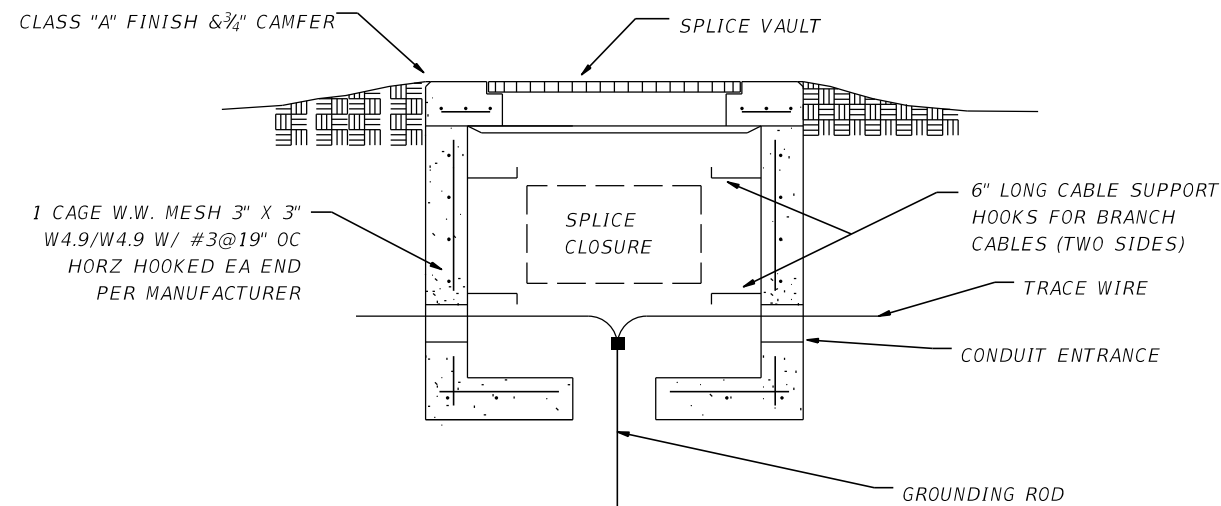
REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CAMERA MOUNTING DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		444315-1-52-01

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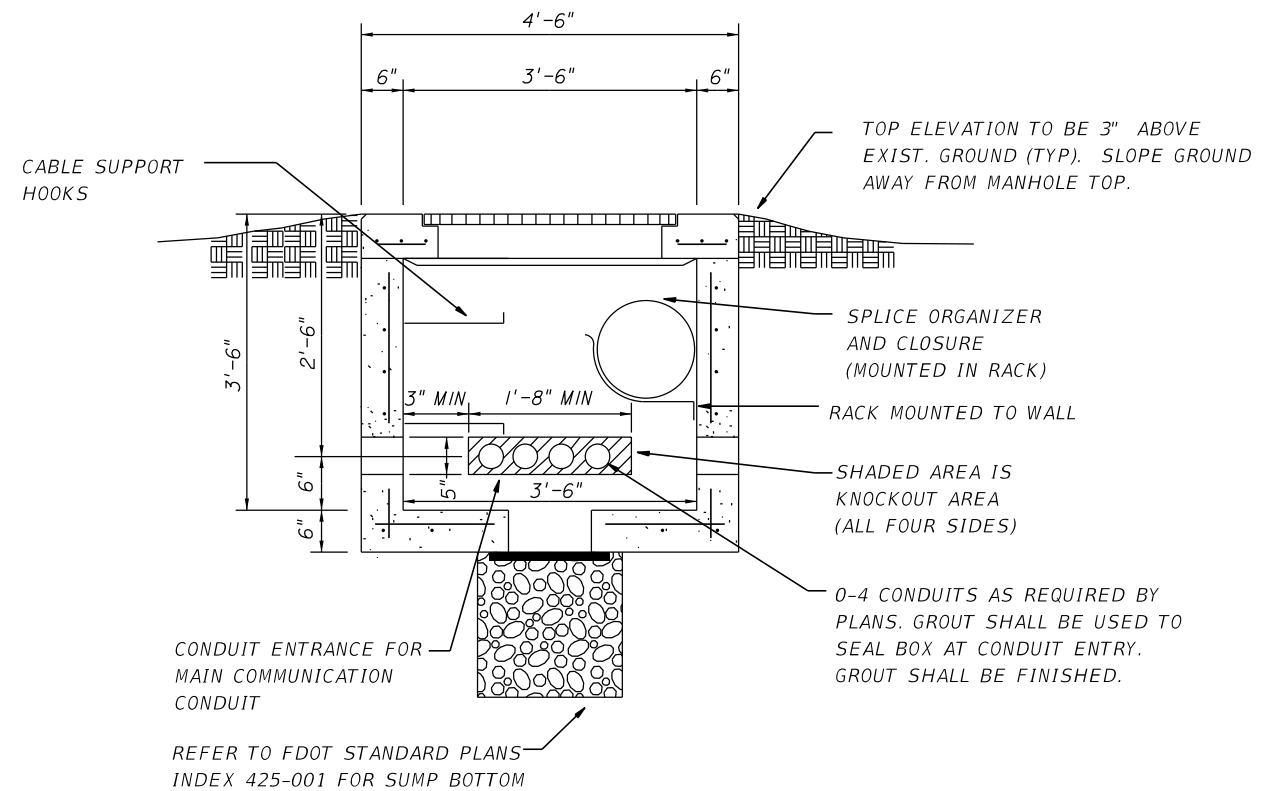
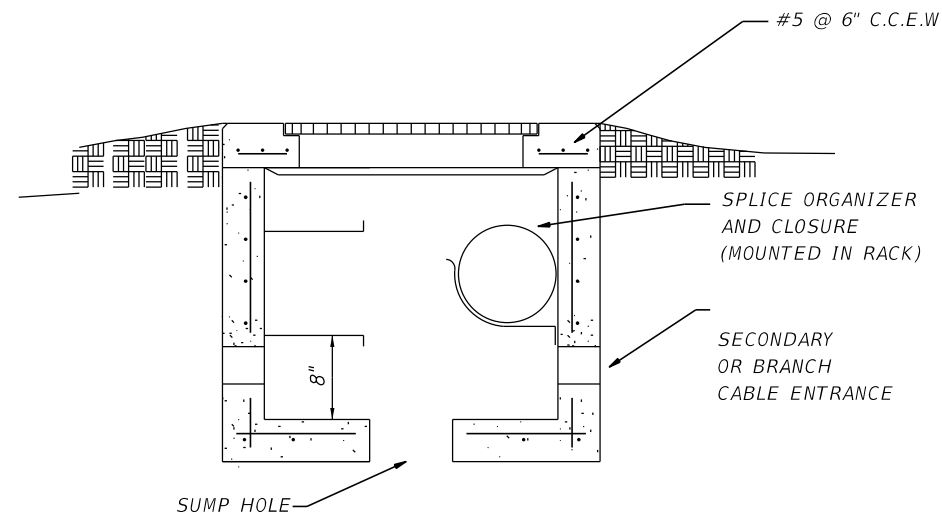
SPECIAL GALV FRAME AND GRATE CAST IN COVER TO READ "FDOT FIBER OPTIC"



PLAN VIEW



FRONT VIEW



SECTION A-A

NOTES:

1. CONDUITS ENTER THROUGH KNOCKOUTS.
2. REFER TO FDOT STANDARD PLANS INDEX 425-010 AND 425-001 FOR MANHOLE STRUCTURE DETAILS. STRUCTURE BOTTOM TYPE P WITH 3'-6" SQUARE STRUCTURE (ALTERNATE B 2 PIECE COVER ~ 3'-0" OPENING)
3. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL HOOKS, RACKS, FASTENERS, ANCHORS, AND STRAPS FOR USE INSIDE SPLICE VAULTS TO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
4. ALL FIBER OPTIC SPLICE VAULTS MUST MEET H-20 LOADING.
5. ALL TRACER WIRE IN SPLICE VAULT SHALL BE TIED TO GROUNDING ROD USING A THREADED GROUNDING CONNECTOR.
6. REFER TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2021 SECTION 635 FOR PULL BOX REQUIREMENTS.
7. ELECTRICAL WIRE MAY NOT BE ROUTED THROUGH SPLICE VAULTS.
8. TERMINATE ALL SPARE CONDUIT IN A PULL BOX OR CABINET AND CAP AND SEAL ENDS.
9. FIBER PULL BOXES AND SPLICE BOXES SHALL HAVE LIDS LABELED WITH RAISED LETTERS OR INFORMATION PERMANENTLY CAST INTO THE LIDS "FDOT FIBER OPTIC".

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

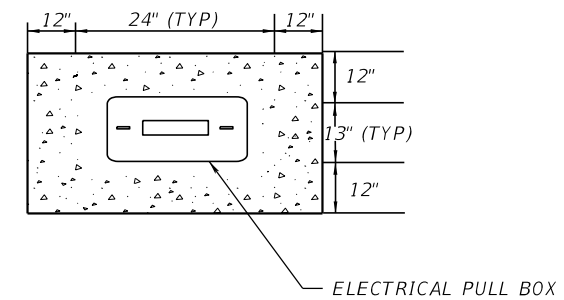
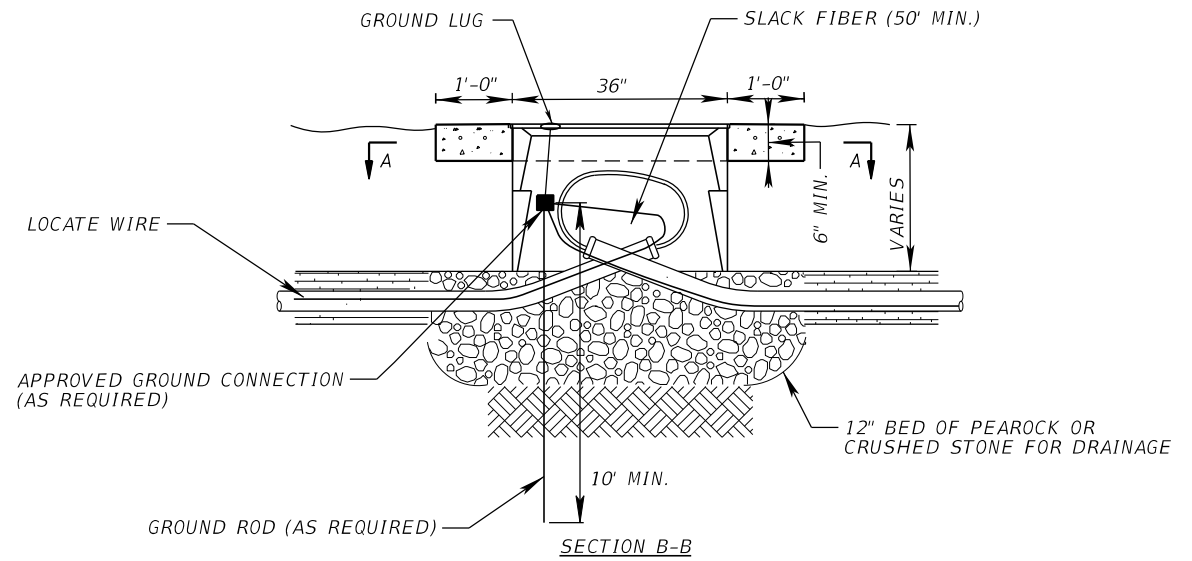
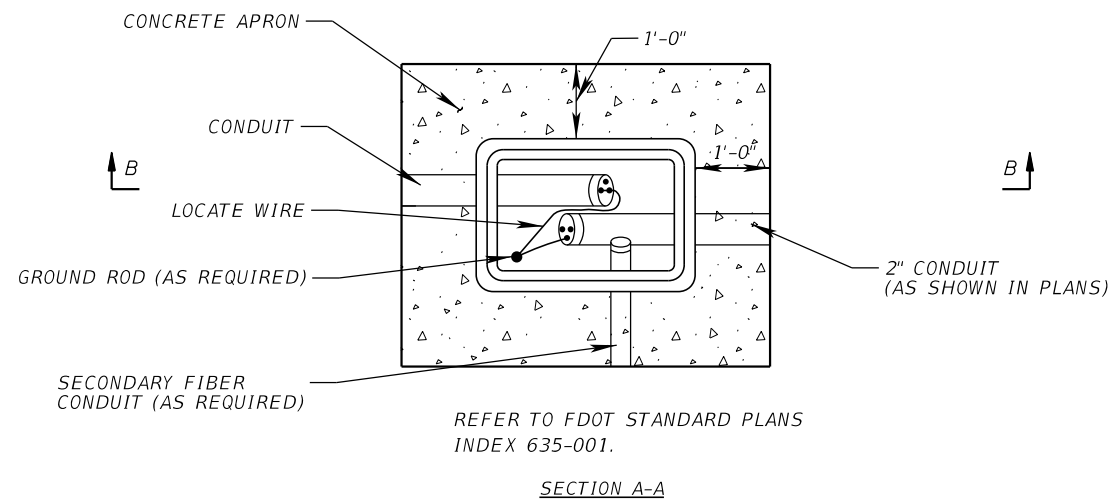
Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

SPLICE VAULT DETAIL

SHEET NO.

IT-38

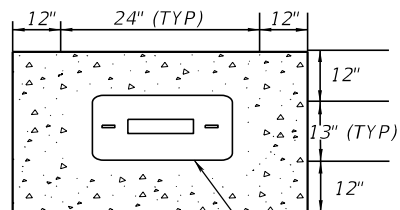


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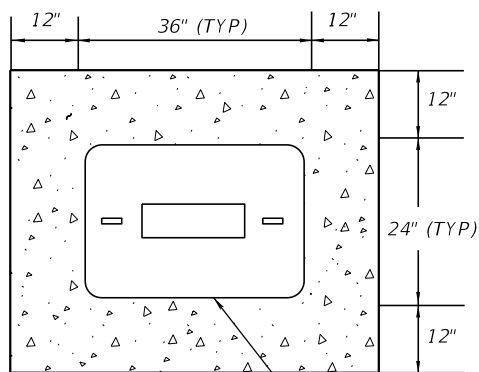
1. BOXES SHALL NOT BE INSTALLED IN ROADWAYS, DRIVEWAYS, PEDESTRIAN RAMPS, OR FLARES UNLESS DIRECTED BY THE ENGINEER.
2. BOXES SHALL BE INSTALLED FLUSH WITH THE FINISHED GRADE SURFACE.
3. FIBER OPTIC SPLICE BOXES SHALL BE PROVIDED WITH CABLE HANGER RACKS DESIGNED TO SUPPORT CABLES AND SPLICE ENCLOSURES.
4. FIBER OPTIC BOXES SHALL CONTAIN ONLY FIBER OPTIC CABLE, CONDUIT, AND LOCATE WIRE.
5. CONDUIT CENTER LINE SHALL BE ALIGNED TO TOP EDGE OF BOX TO FACILITATE CABLE PULLING.
6. ALL BOXES SHALL HAVE A 1'-0" WIDE (MIN) CONCRETE APRON. CONCRETE FOR CONCRETE APRONS SHALL BE CLASS NS WITH A MINIMUM STRENGTH AT 28 DAYS OF F'C=2.5 KSI. APRONS SHALL BE SLOPED AWAY FROM BOX.
7. PREVENT THE INGRESS OF WATER, DIRT, SAND, AND OTHER FOREIGN MATERIALS INTO THE CONDUIT PRIOR TO, DURING AND AFTER CONSTRUCTION USING A FORM-SEALING MATERIAL, RUBBER PLUG, OR OTHER DEVICE DESIGNED FOR THIS APPLICATION AND APPROVED.
8. 5/8" COPPER CLAD GROUND RODS SHALL BE USED AS REQUIRED.
9. FIBER OPTIC PULL BOX SHALL NOT CONTAIN ELECTRICAL CONDUIT OR CONDUCTOR. ELECTRICAL CONDUIT AND CONDUCTORS SHALL BE INSTALLED IN SEPARATE PULL BOXES.
10. TERMINATE ALL SPARE CONDUIT IN A PULL BOX OR CABINET AND CAP AND SEAL ENDS.
11. FIBER DROP FIBER PULL BOXES AND SPLICE BOXES SHALL HAVE LIDS LABELED WITH RAISED LETTERS OR INFORMATION PERMANENTLY CAST INTO THE LIDS "FDOT FIBER OPTIC". LATERAL FIBER DROP PULL BOXES SHALL HAVE LIDS LABELED WITH RAISED LETTERS "FDOT LATERAL FIBER".
13. POWER PULL BOXES SHALL HAVE LIDS LABELED WITH RAISED LETTERS OR INFORMATION PERMANENTLY CAST INTO THE LIDS "FDOT ITS ELECTRIC". GROUND INSPECTION BOXES SHALL HAVE LIDS WITH RAISED LETTERS OR INFORMATION PERMANENTLY CAST INTO THE LIDS "FDOT ITS GROUND".
14. LOCATE PULL BOX COVERS SHALL HAVE LIDS LABELED "FDOT ITS LOCATE".
15. PULL BOXES WITH LOW VOLTAGE (50V OR LESS) ITS CABLES SHALL HAVE LIDS LABELED "FDOT ITS COMPOSITE".

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-39
					SR 400	ORANGE	444315-1-52-01		

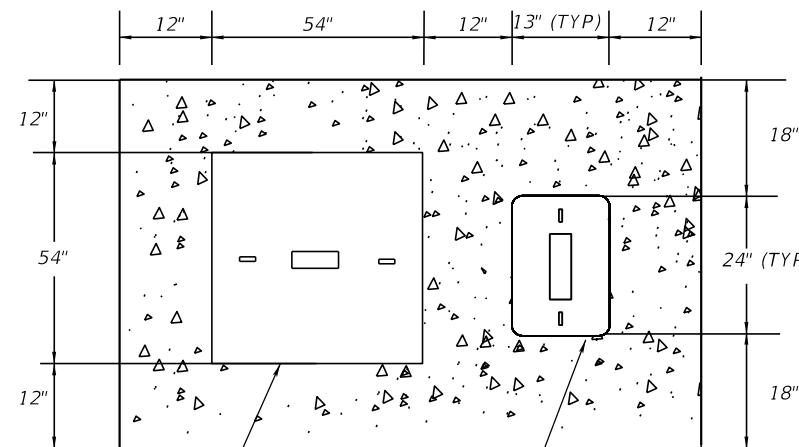
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ELECTRICAL PULL BOX

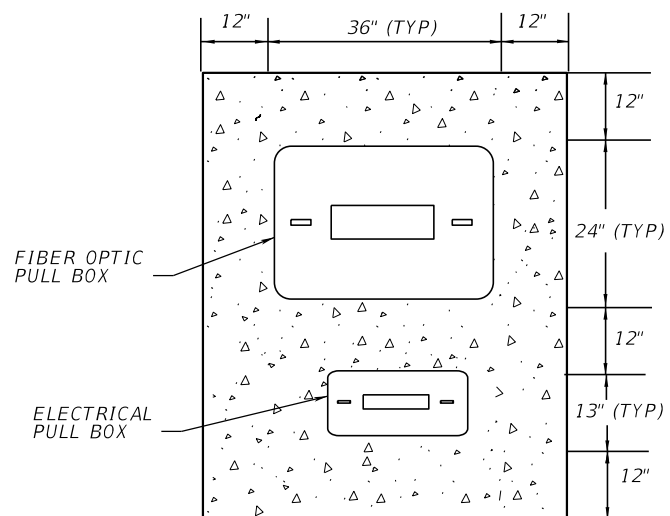


FIBER OPTIC PULL BOX



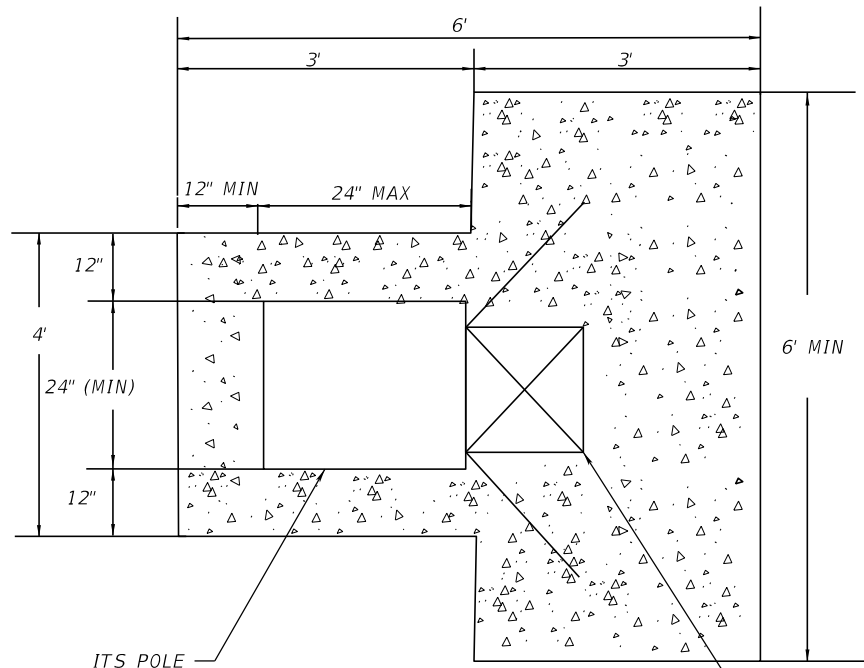
SPLICE VAULT

ELECTRICAL PULL BOX



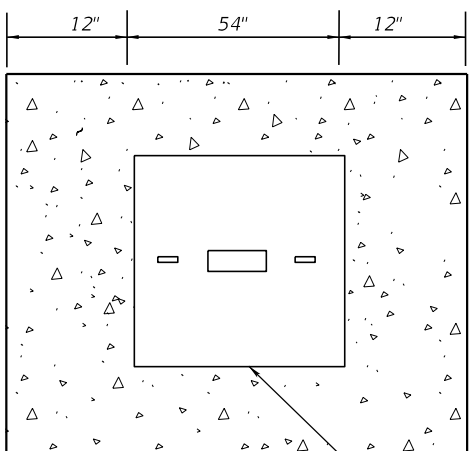
FIBER OPTIC PULL BOX

ELECTRICAL PULL BOX

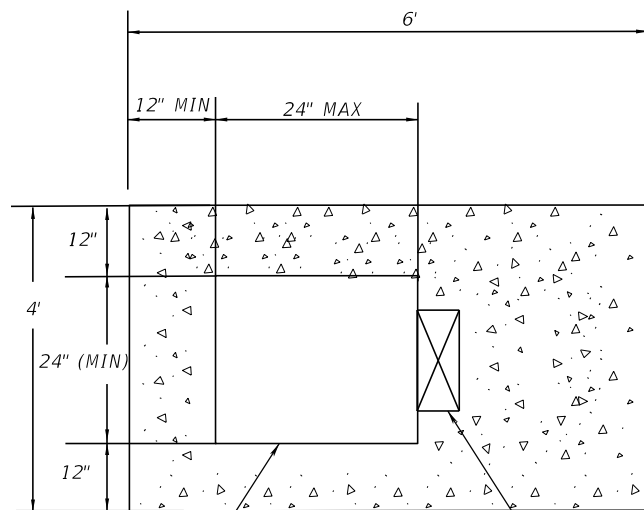


ITS POLE

ITS CABINET (DOWN STREAM FROM TRAFFIC)

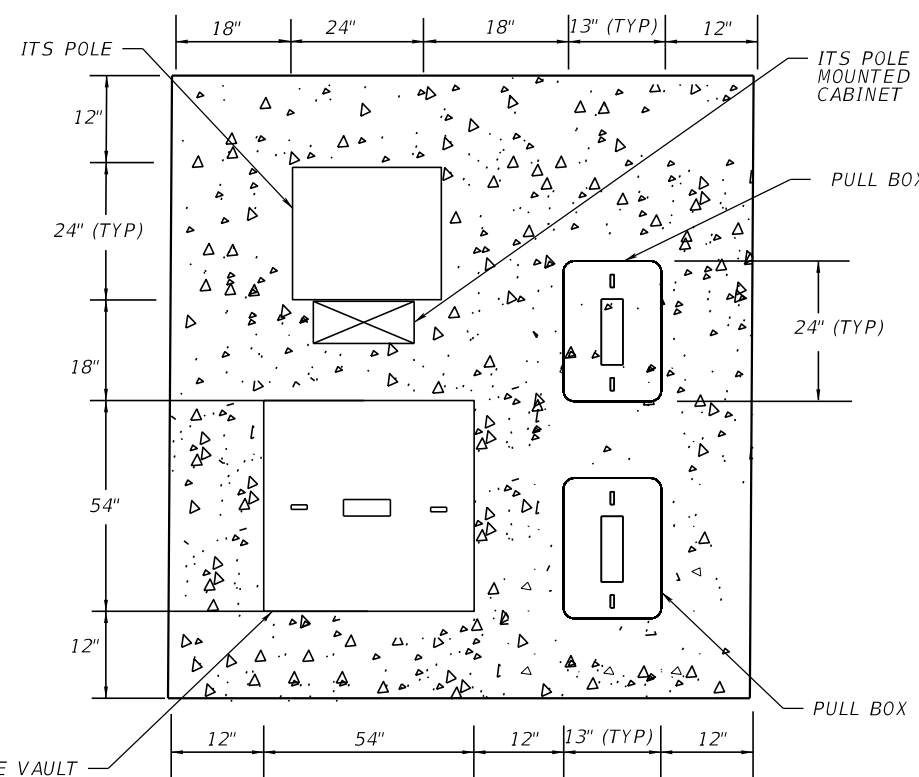


SPLICE VAULT



ITS POLE

ITS NEMA CABINET (DOWN STREAM FROM CABINET)



SPLICE VAULT

ITS POLE MOUNTED CABINET

PULL BOX

24" (TYP)

PULL BOX

NOTE:

1. CONCRETE SLAB/CONCRETE APRON SHALL BE A MINIMUM 6" THICKNESS. REFER TO FDOT STANDARD PLANS INDEX 635-001.
2. WHEN MULTIPLE CONFIGURATION OF CONCRETE APRONS (ie., PULL BOXES, MASTER HUBS, ETC) ARE ADJACENT TO ONE ANOTHER, THEY SHALL BE FORMED TOGETHER WITH AN EXPANSION JOINT BETWEEN THE APRONS UTILIZED TO AVOID CRACKING.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

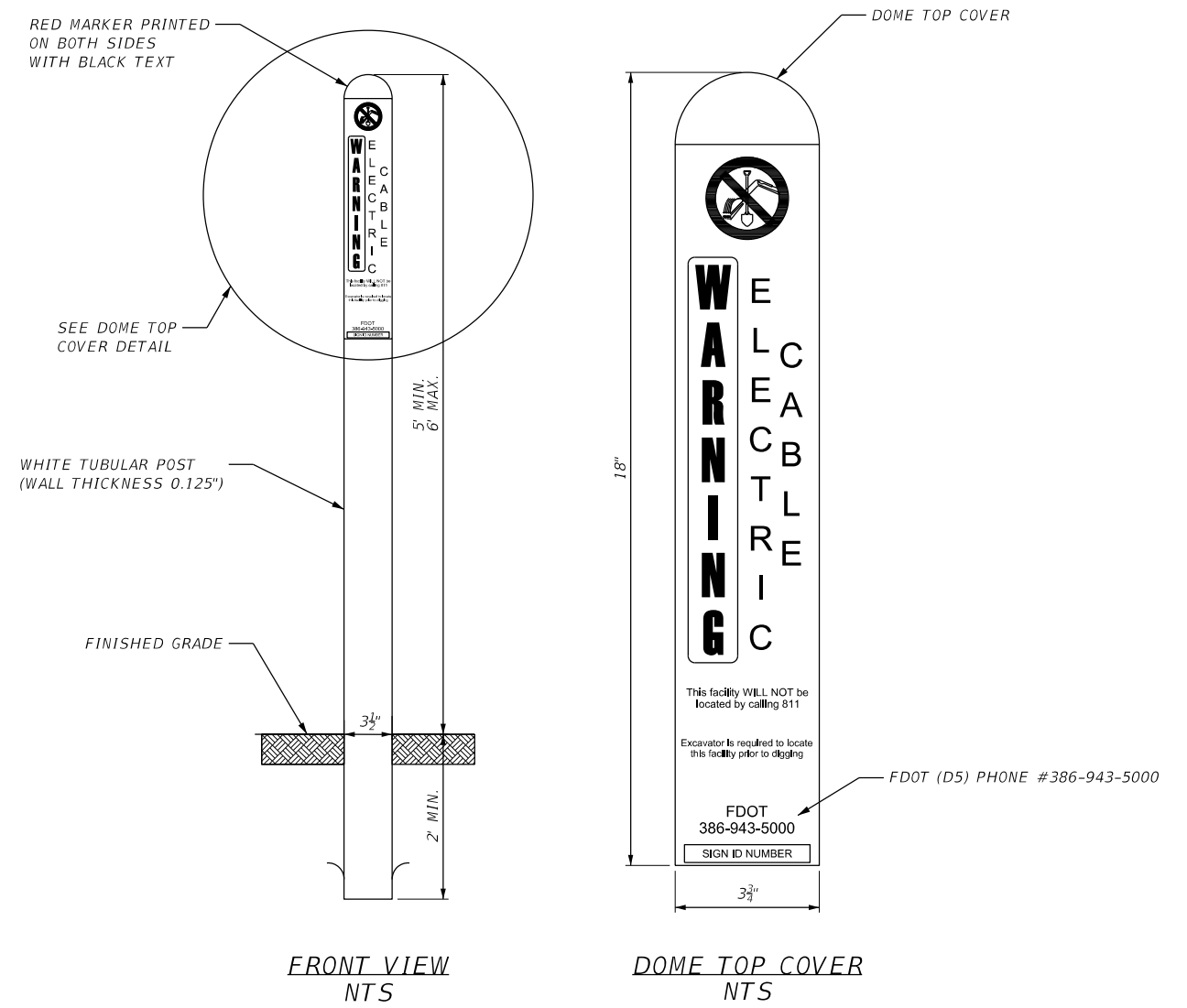
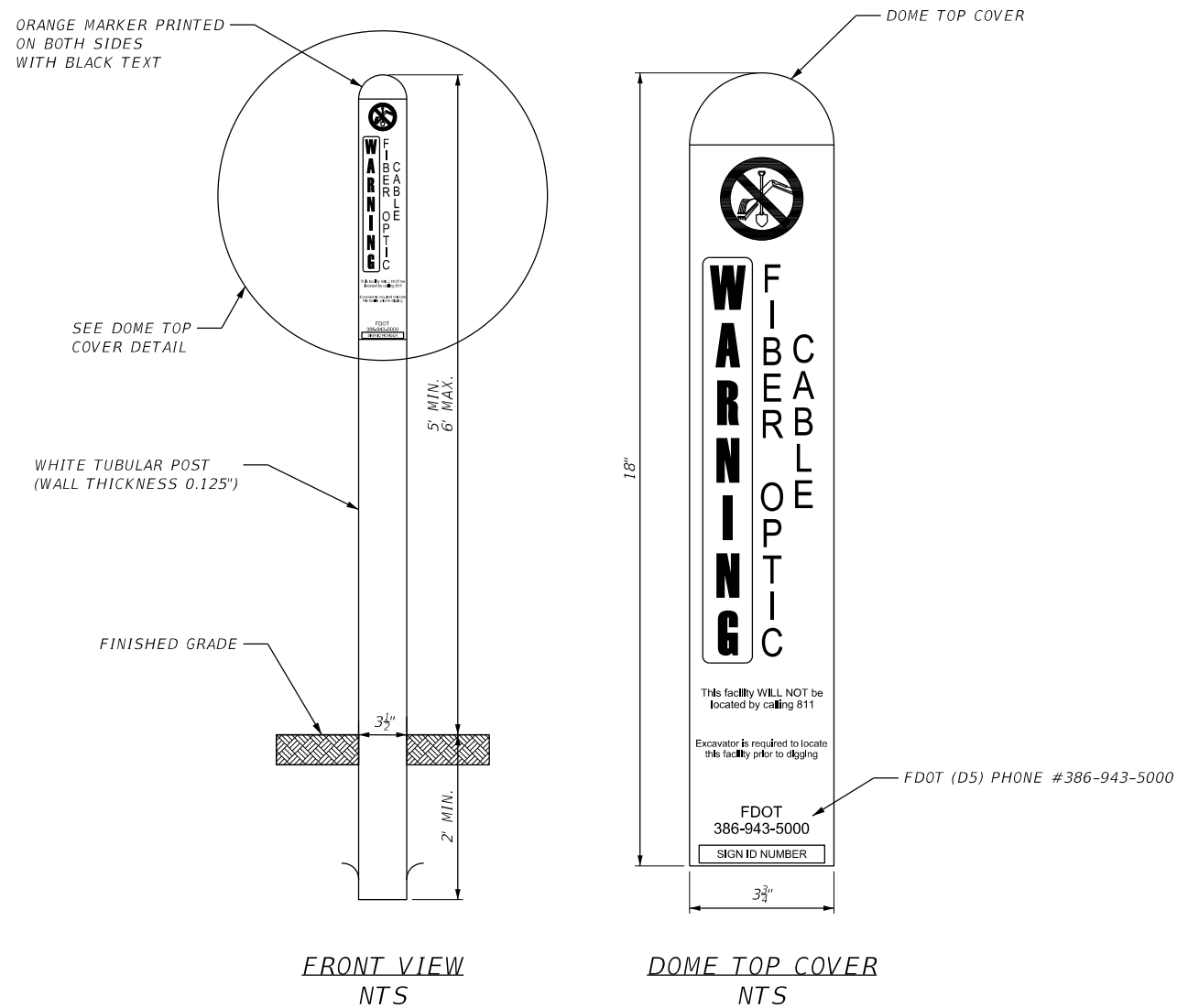
Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

CONCRETE APRON DETAIL	
SHEET NO.	IT-40

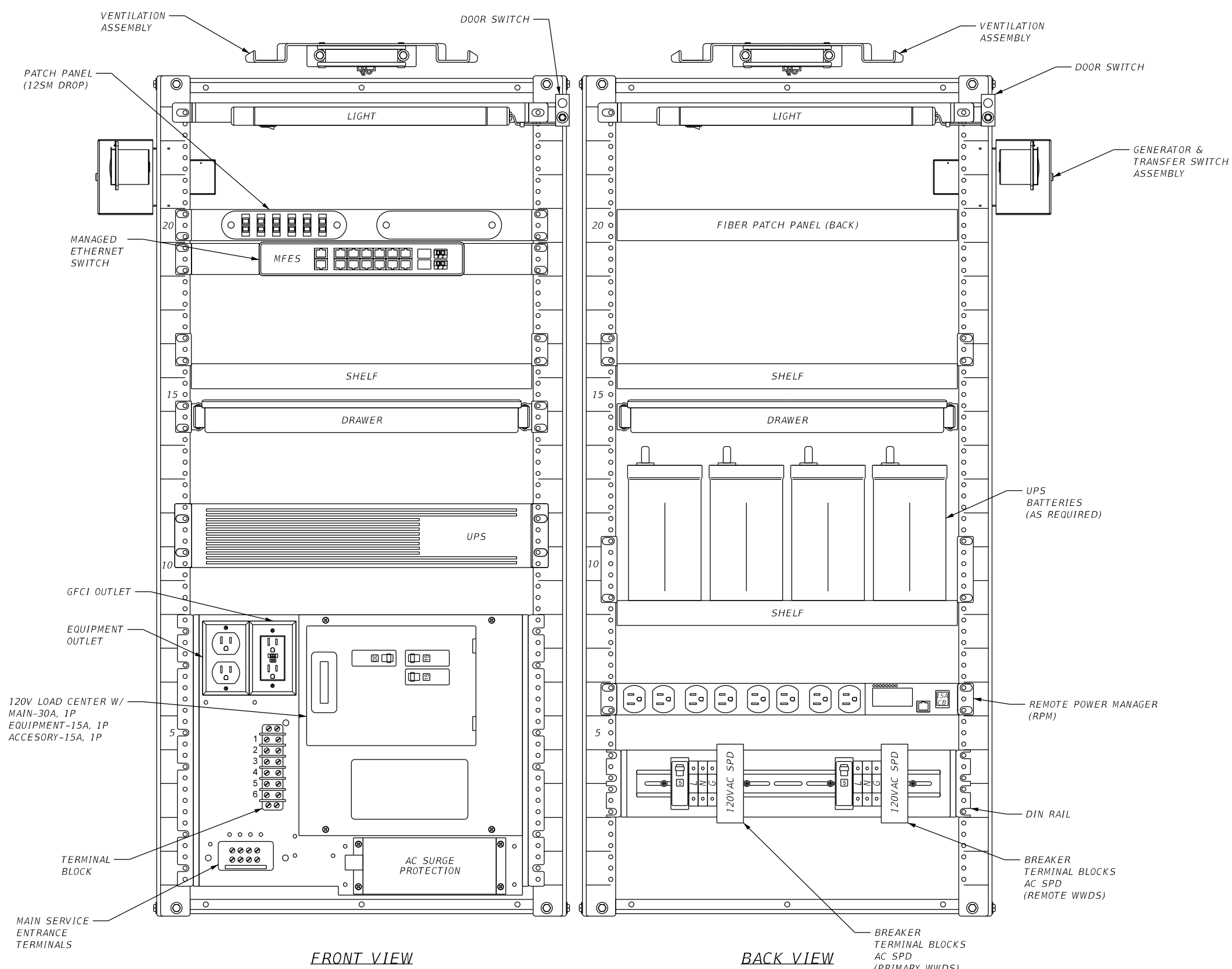
FDOT (D5) FIBER OPTIC CABLE ROUTE MARKER

FDOT (D5) ELECTRICAL CABLE ROUTE MARKER



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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		444315-1-52-01

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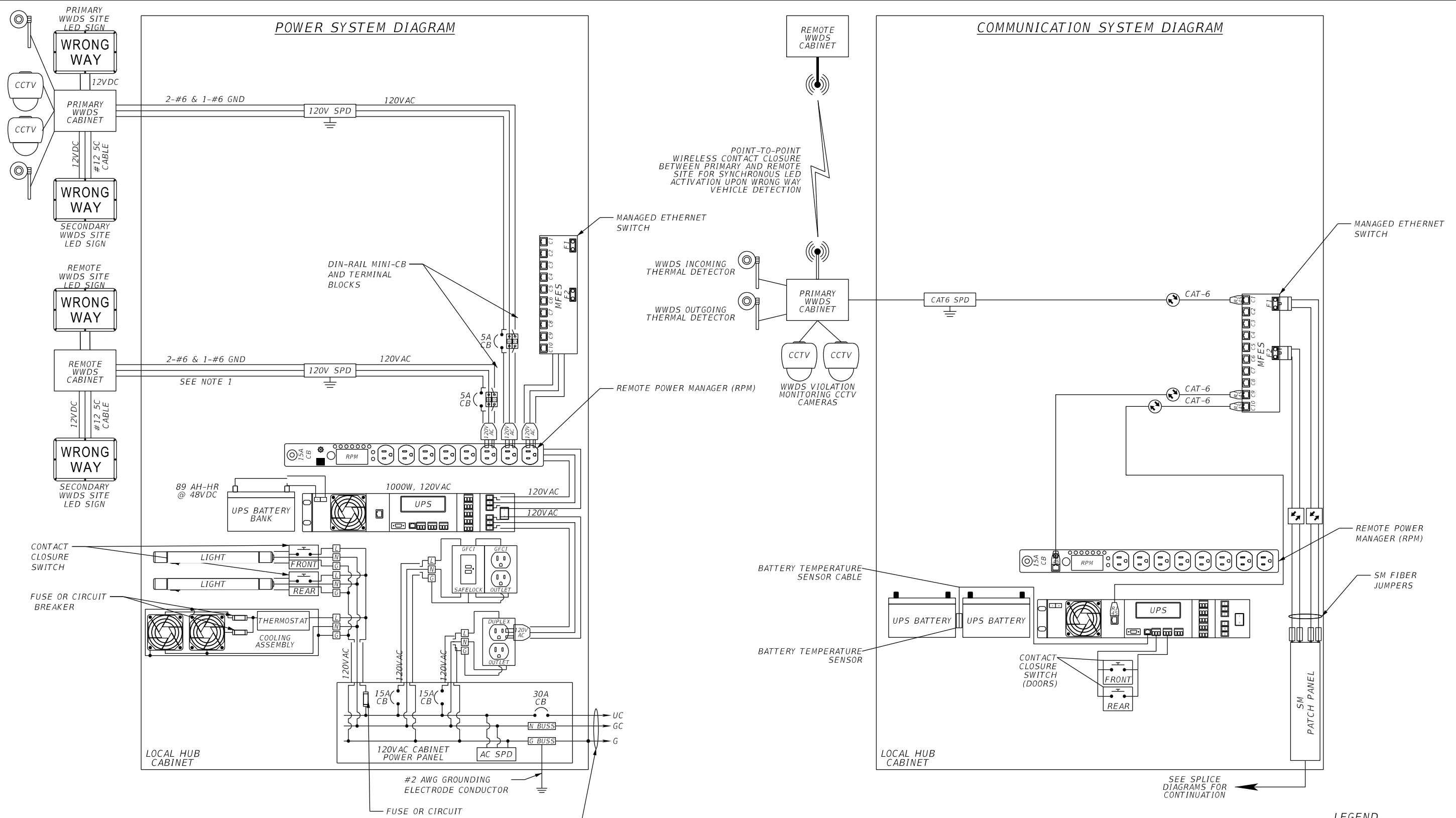
FRONT VIEW

BACK VIEW

**WWDS LOCAL HUB CABINET
336S CABINET POLE MOUNTED**

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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WWDS LOCAL HUB

- LEGEND**
- 1-Gbps ETHERNET
 - 10/100 MBPS ETHERNET
 - SERIAL COMMUNICATION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
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WWDS WIRING DIAGRAMS

SHEET NO.
IT-43

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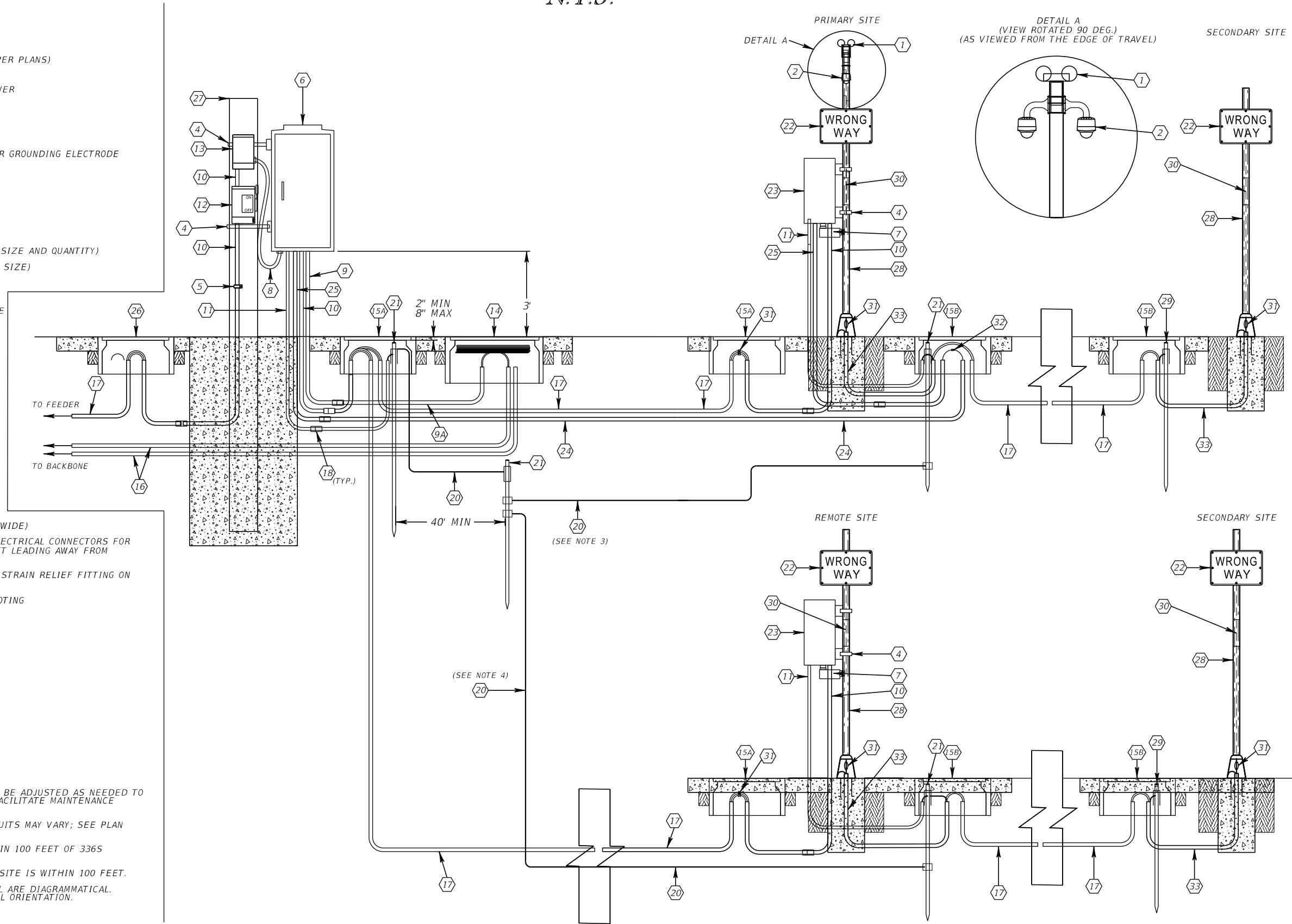
LEGEND

- 1 THERMAL SENSOR
- 2 VERIFICATION CAMERA
- 3 NOT USED
- 4 STAINLESS STEEL STRAPS
- 5 CONDUIT STRAPS (3' O.C. TYPICAL)
- 6 TYPE 3365 POLE MOUNTED CABINET (ORIENTATION PER PLANS)
- 7 TYPE LB 2" CONDUIT
- 8 1" LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR POWER
- 9 1 1/4" RMC CONDUIT (FIBER)
- 9A 1 1/4" HDPE CONDUIT (FIBER)
- 10 2" RMC CONDUIT (POWER)
- 11 1" RMC CONDUIT FOR CABINET #2 AWG BARE COPPER GROUNDING ELECTRODE CONDUCTOR (BOND TO GROUNDING ROD)
- 12 ELECTRICAL DISCONNECT
- 13 AC TRANSFORMER (WHEN REQUIRED)
- 14 FIBER OPTIC PULL BOX
- 15A ELECTRICAL PULL BOX (120V UPS OUTPUT)
- 15B ELECTRICAL PULL BOX (CAT-6/DC POWER)
- 16 HDPE CONDUIT FOR FIBER (SEE PLAN SHEETS FOR SIZE AND QUANTITY)
- 17 HDPE CONDUIT FOR POWER (SEE PLAN SHEETS FOR SIZE)
- 18 CONDUIT COUPLER
- 19 NOT USED
- 20 #2 AWG BARE SOLID COPPER GROUNDING ELECTRODE CONDUCTOR (BOND TO GROUNDING ROD)
- 21 5/8" X 20' MIN. GROUNDING ELECTRODE (EXTEND OR ADD ADDITIONAL GROUND RODS TO ACHIEVE 5 OHM MAX. RESISTANCE TO GROUND) ROD PLACEMENT PER FDOT INDEX 641-020
- 22 WRONG WAY HIGHLIGHTED SIGN PANEL
- 23 NEMA 3R POLE MOUNTED CABINET (ORIENTATION PER SITE DETAILS)
- 24 ITS HDPE CONDUIT (SEE PLAN SHEETS FOR SIZE)
- 25 2" RMC CONDUIT (CAT-6)
- 26 ELECTRICAL PULL BOX (POWER TO LOCAL HUB)
- 27 TYPE P-II SERVICE POLE
- 28 ALUMINUM SIGN POST WITH TRANSFORMER BASE PER STANDARD INDEX 700-120. INSTALL TOP CAP.
- 29 5/8" X 20' MIN. GROUNDING ELECTRODE
- 30 RETROREFLECTIVE SIGN STRIP (RED, 2' LENGTH, 2" WIDE)
- 31 ONE-POLE, NON-FUSED, WATERTIGHT BREAKAWAY ELECTRICAL CONNECTORS FOR POWER. INSTALL STRAIN RELIEF FITTING ON CONDUIT LEADING AWAY FROM BREAKAWAY POST
- 32 BREAKAWAY CONNECTOR FOR CAT-6 CABLE, INSTALL STRAIN RELIEF FITTING ON CONDUIT LEADING AWAY FROM BREAKAWAY POST
- 33 2" PVC CONDUIT (DC POWER/GND) EMBEDDED IN FOOTING

NOTES:

1. DISCONNECT AND TRANSFORMER MOUNTING HEIGHT MAY BE ADJUSTED AS NEEDED TO FIT ON THE POLE. ENSURE THAT MOUNTING HEIGHTS FACILITATE MAINTENANCE ACCESS.
2. NUMBER AND USAGE OF PROPOSED UNDERGROUND CONDUITS MAY VARY; SEE PLAN SHEETS FOR FURTHER DETAIL.
3. BOND TO GROUND ARRAYS WHEN PRIMARY SITE IS WITHIN 100 FEET OF 3365 CABINET.
4. BOND TO PRIMARY SITE GROUND ARRAY WHEN PRIMARY SITE IS WITHIN 100 FEET.
5. CABINET AND SIGN PANEL ORIENTATION ON THIS DETAIL ARE DIAGRAMMATICAL. REFER TO PLAN SHEETS AND SITE DETAILS FOR ACTUAL ORIENTATION.

WWDS INSTALLATION DETAIL - HARDWIRE
N.T.S.



REVISIONS			
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

WWDS ITS INSTALLATION
DETAILS

SHEET
NO.
IT-44

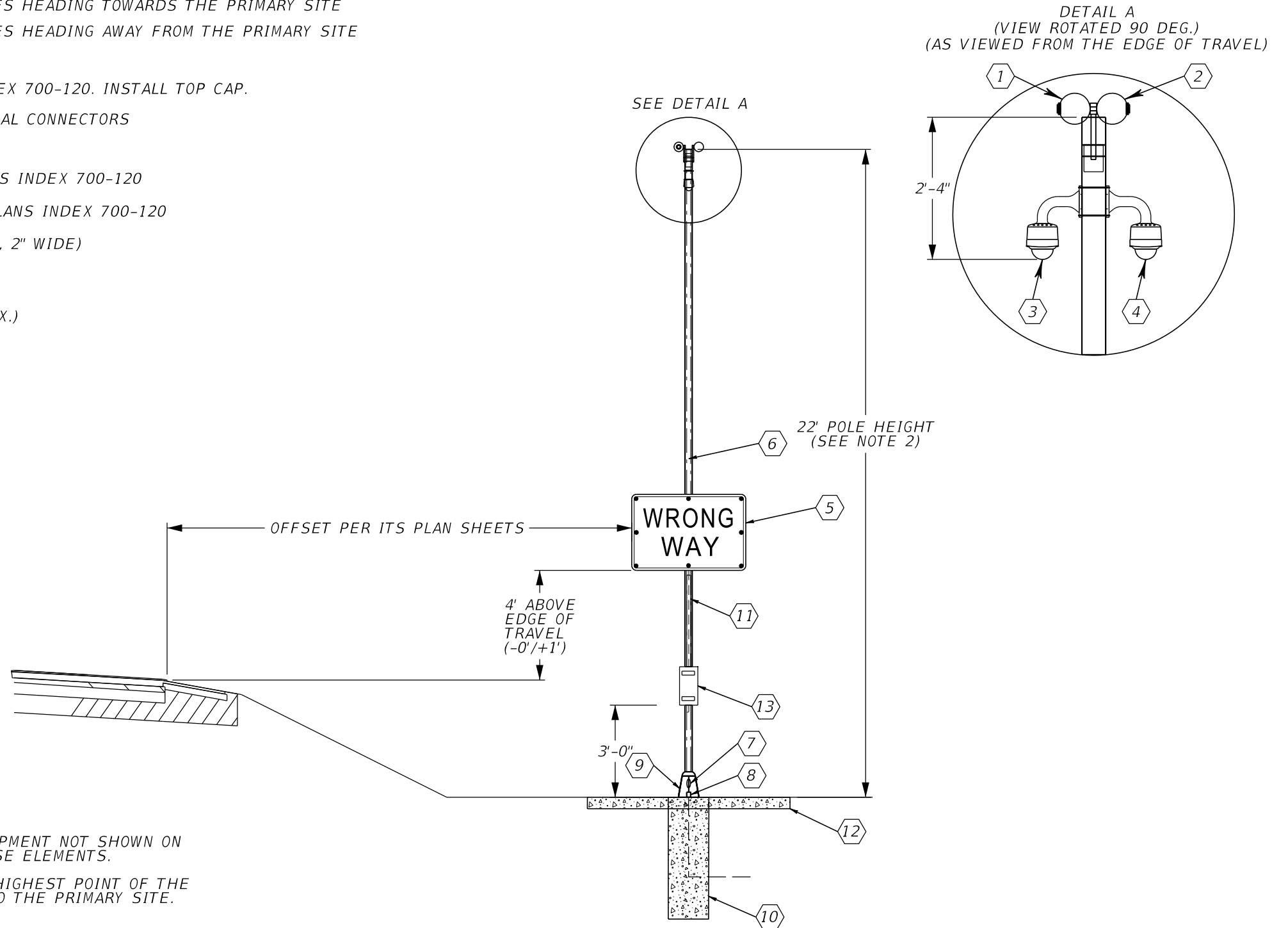
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PRIMARY SITE DETAIL - HARDWIRE

N.T.S.

LEGEND

- ① INCOMING THERMAL SENSOR (SEE NOTE 2)
- ② OUTGOING THERMAL SENSOR (SEE NOTE 2)
- ③ INCOMING CAMERA AIMED FOR VIEWING VEHICLES HEADING TOWARDS THE PRIMARY SITE
- ④ OUTGOING CAMERA AIMED FOR VIEWING VEHICLES HEADING AWAY FROM THE PRIMARY SITE
- ⑤ 42" X 30" R5-1A HIGHLIGHTED SIGN
- ⑥ ALUMINUM SIGN POST PER STANDARD PLAN INDEX 700-120. INSTALL TOP CAP.
- ⑦ NON-FUSED, WATERTIGHT BREAKAWAY ELECTRICAL CONNECTORS
- ⑧ STRAIN RELIEF FITTING
- ⑨ TRANSFORMER BASE PER FDOT STANDARD PLANS INDEX 700-120
- ⑩ CONCRETE FOUNDATION PER FDOT STANDARD PLANS INDEX 700-120
- ⑪ RETROREFLECTIVE SIGN STRIP (RED, 2' LENGTH, 2" WIDE)
- ⑫ CONCRETE APRON PER APRON DETAILS
- ⑬ NEMA 3R POLE MOUNTED CABINET (36" x 24" MAX.)



NOTES:

1. CONDUITS, PULL BOXES, AND ELECTRICAL SERVICE EQUIPMENT NOT SHOWN ON THIS SHEET. REFER TO INSTALLATION DETAIL FOR THESE ELEMENTS.
2. MOUNT THERMAL DETECTORS AT LEAST 20' ABOVE THE HIGHEST POINT OF THE RAMP'S PAVEMENT SURFACE THAT IS PERPENDICULAR TO THE PRIMARY SITE.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-45
					SR 400	ORANGE	444315-1-52-01		

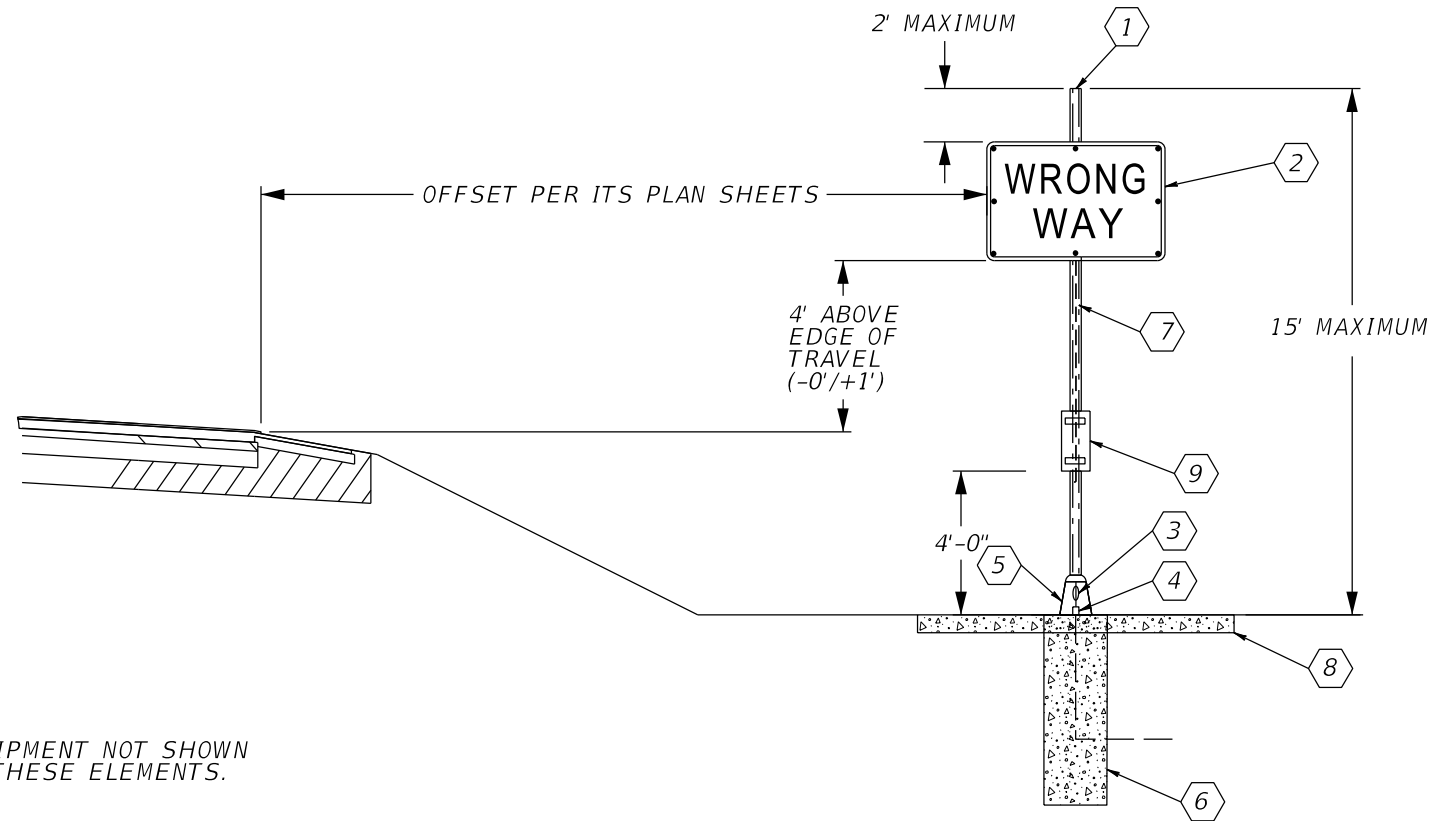
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REMOTE SITE DETAIL - HARDWIRE

N.T.S.

LEGEND

- ① ALUMINUM SIGN POST PER STANDARD PLAN INDEX 700-120. INSTALL TOP CAP.
- ② 42" X 30" R5-1A HIGHLIGHTED SIGN
- ③ NON-FUSED, WATERTIGHT BREAKAWAY ELECTRICAL CONNECTORS
- ④ STRAIN RELIEF FITTING
- ⑤ TRANSFORMER BASE PER FDOT STANDARD PLANS INDEX 700-120
- ⑥ CONCRETE FOUNDATION PER FDOT STANDARD PLANS INDEX 700-120
- ⑦ RETROREFLECTIVE SIGN STRIP (RED, 2' LENGTH, 2" WIDE)
- ⑧ CONCRETE APRON PER APRON DETAILS
- ⑨ NEMA 3R POLE MOUNTED CABINET (24" x 24" MAX.)



NOTES:

- 1. CONDUITS, PULL BOXES, AND ELECTRICAL SERVICE EQUIPMENT NOT SHOWN ON THIS SHEET. REFER TO INSTALLATION DETAIL FOR THESE ELEMENTS.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-46
					SR 400	ORANGE	444315-1-52-01		

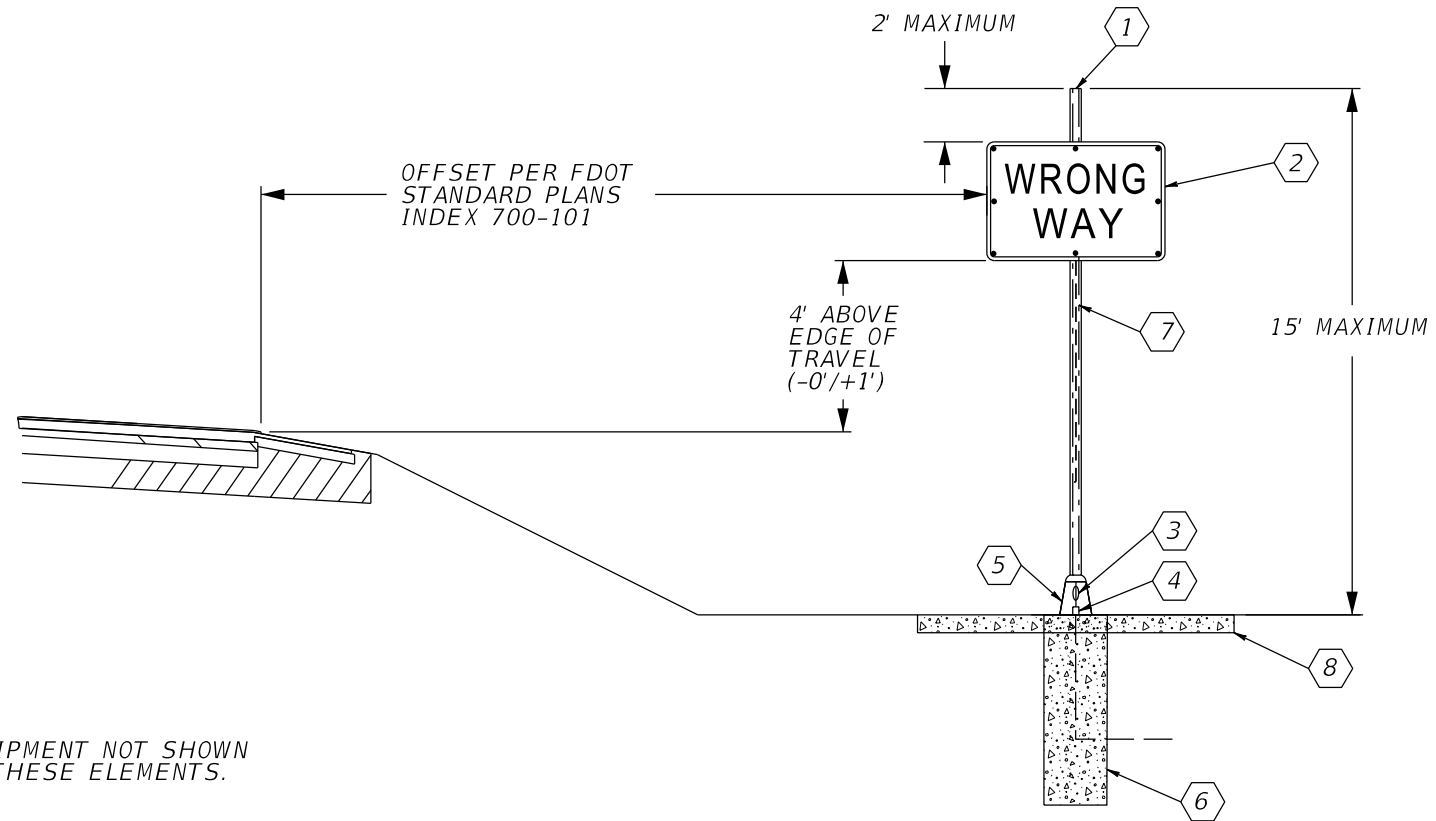
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SECONDARY SITE - HARDWIRE

N.T.S.

LEGEND

- ① ALUMINUM SIGN POST PER STANDARD PLAN INDEX 700-120. INSTALL TOP CAP.
- ② 42" X 30" R5-1A HIGHLIGHTED SIGN
- ③ NON-FUSED, WATERTIGHT BREAKAWAY ELECTRICAL CONNECTORS
- ④ STRAIN RELIEF FITTING
- ⑤ TRANSFORMER BASE PER FDOT STANDARD PLANS INDEX 700-120
- ⑥ CONCRETE FOUNDATION PER FDOT STANDARD PLANS INDEX 700-120
- ⑦ RETROREFLECTIVE SIGN STRIP (RED, 2' LENGTH, 2" WIDE)
- ⑧ CONCRETE APRON PER APRON DETAILS

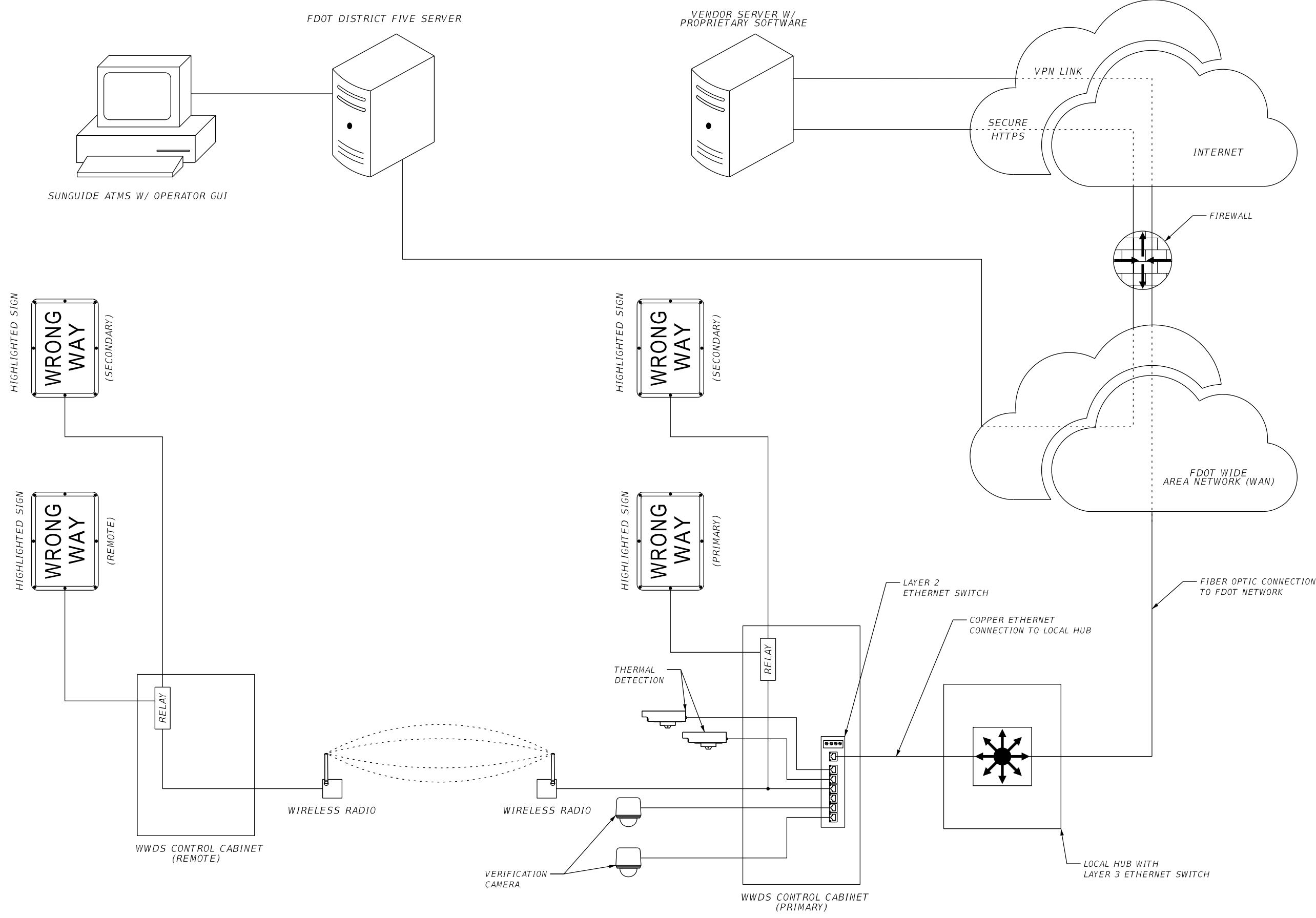


NOTES:

1. CONDUITS, PULL BOXES, AND ELECTRICAL SERVICE EQUIPMENT NOT SHOWN ON THIS SHEET. REFER TO INSTALLATION DETAIL FOR THESE ELEMENTS.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-47
					SR 400	ORANGE	444315-1-52-01		

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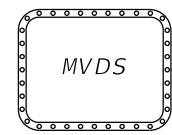


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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-48
					SR 400	ORANGE	444315-1-52-01		

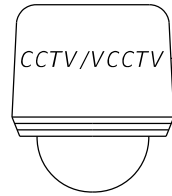
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TYPE 334 GROUND MOUNT CABINET

LOCAL HUB
CAB-4-72.6-EB
CAB-4-74.4-EB

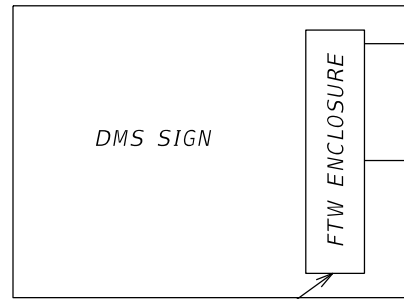


MVDS COMPOSITE CABLE FOR
POWER & COMMUNICATION



CAT6 COMPOSITE CABLE FOR
POWER & COMMUNICATION

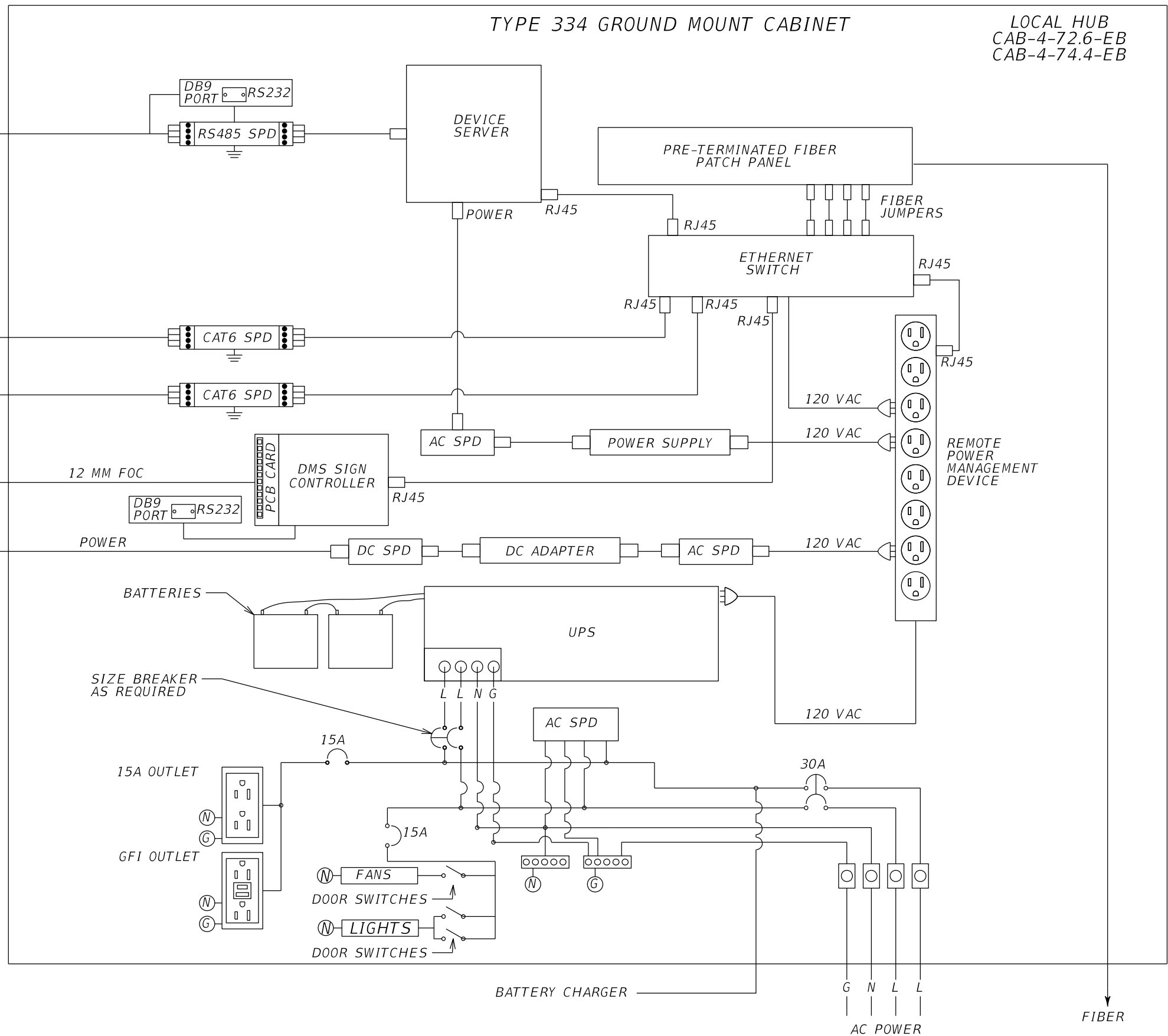
CAT6 COMPOSITE CABLE FOR
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FIBER TO WIRE
ENCLOSURE

NOTES:

1. THIS DRAWING IS PROVIDED FOR ILLUSTRATION PURPOSES WITH GENERAL EQUIPMENT ARRANGEMENTS SHOWN. ACTUAL EQUIPMENT DETERMINED BY GOVERNING CONTRACT DOCUMENTS.
2. UPS BATTERY SIZE AND QUANTITY SHALL BE DETERMINED BY ELECTRICAL CALCULATIONS.
3. REMOTE POWER MANAGEMENT DEVICE SHALL MEET GOVERNING CONTRACT DOCUMENT REQUIREMENTS.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. License No. 71730
Jacobs Engineering Group, Inc.
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Orlando, FL 32801
PH (407) 903-5290

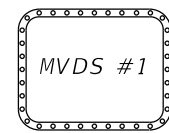
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

WIRING DIAGRAM (1)

SHEET NO.
IT-49

TYPE 336S POLE MOUNT CABINET

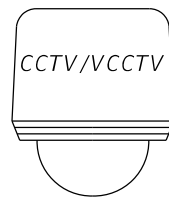
LOCAL HUB
CAB-4-73.0-EB



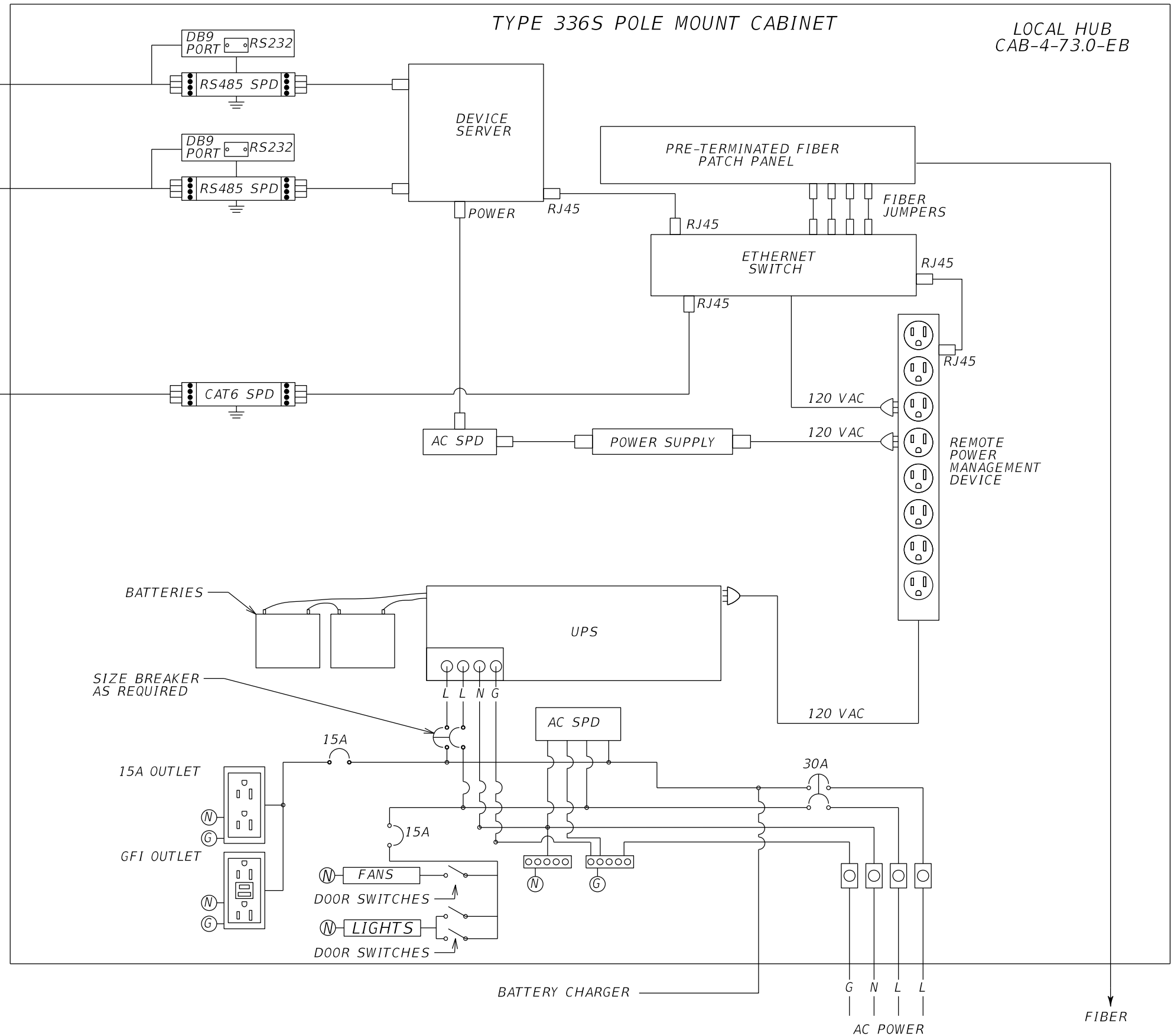
MVDS #1
MVDS COMPOSITE CABLE FOR
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MVDS #2
MVDS COMPOSITE CABLE FOR
POWER & COMMUNICATION



CCTV/VCCTV
CAT6 COMPOSITE CABLE FOR
POWER & COMMUNICATION



- NOTES:
1. THIS DRAWING IS PROVIDED FOR ILLUSTRATION PURPOSES WITH GENERAL EQUIPMENT ARRANGEMENTS SHOWN. ACTUAL EQUIPMENT DETERMINED BY GOVERNING CONTRACT DOCUMENTS.
 2. UPS BATTERY SIZE AND QUANTITY SHALL BE DETERMINED BY ELECTRICAL CALCULATIONS.
 3. REMOTE POWER MANAGEMENT DEVICE SHALL MEET GOVERNING CONTRACT DOCUMENT REQUIREMENTS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Jacobs Engineering Group, Inc.
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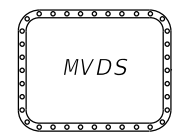
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

WIRING DIAGRAM (2)

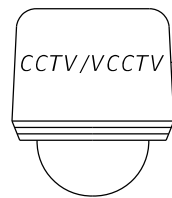
SHEET NO.
IT-50

TYPE 334 GROUND MOUNT CABINET

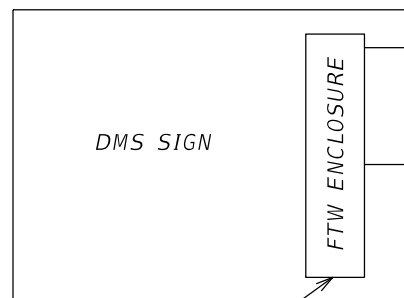
LOCAL HUB
CAB-4-73.4-EB



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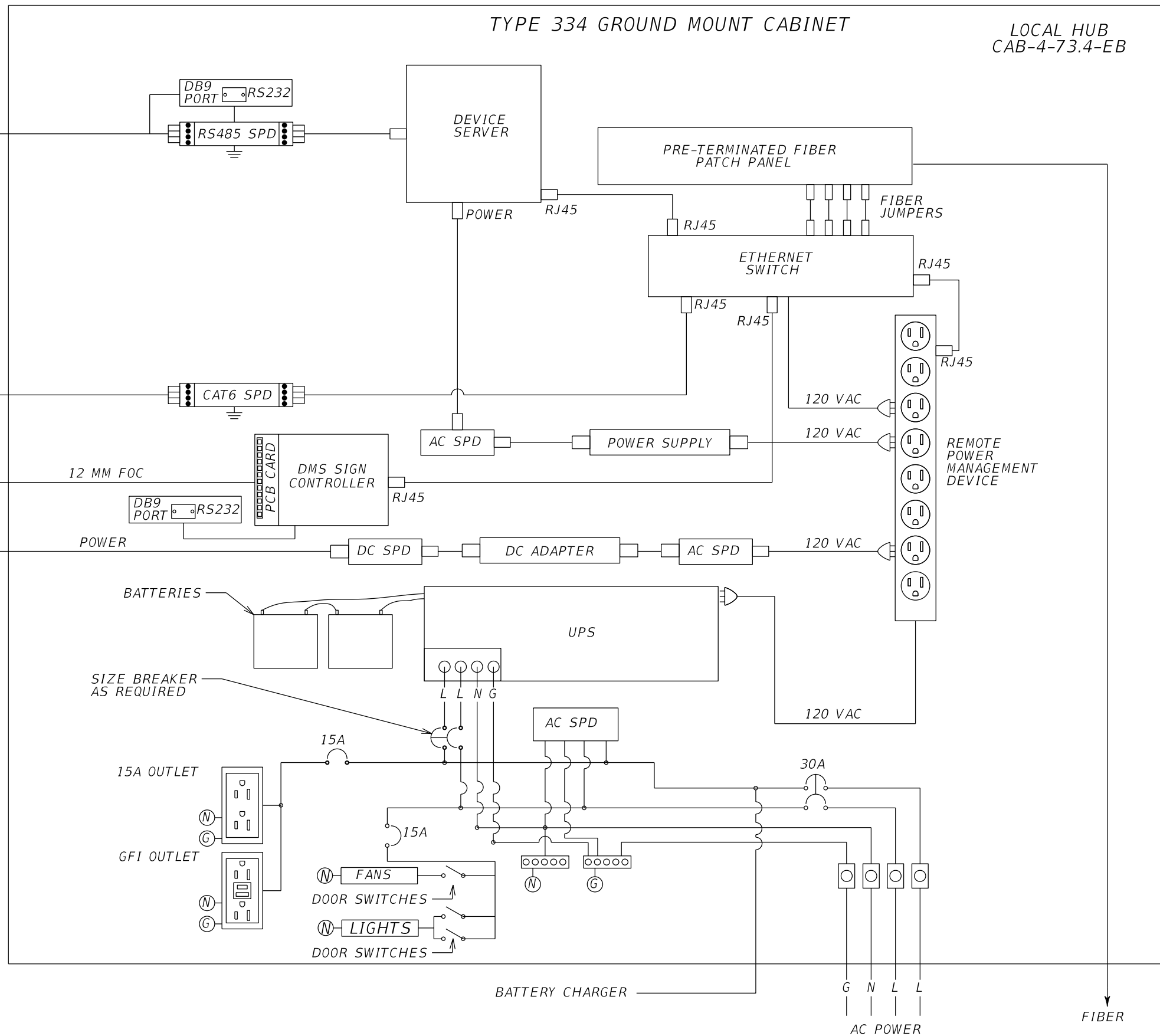
CAT6 COMPOSITE CABLE FOR
POWER & COMMUNICATION



FIBER TO WIRE
ENCLOSURE

NOTES:

1. THIS DRAWING IS PROVIDED FOR ILLUSTRATION PURPOSES WITH GENERAL EQUIPMENT ARRANGEMENTS SHOWN. ACTUAL EQUIPMENT DETERMINED BY GOVERNING CONTRACT DOCUMENTS.
2. UPS BATTERY SIZE AND QUANTITY SHALL BE DETERMINED BY ELECTRICAL CALCULATIONS.
3. REMOTE POWER MANAGEMENT DEVICE SHALL MEET GOVERNING CONTRACT DOCUMENT REQUIREMENTS.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

WIRING DIAGRAM (3)

SHEET NO.
IT-51

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TYPE 336S POLE MOUNT CABINET

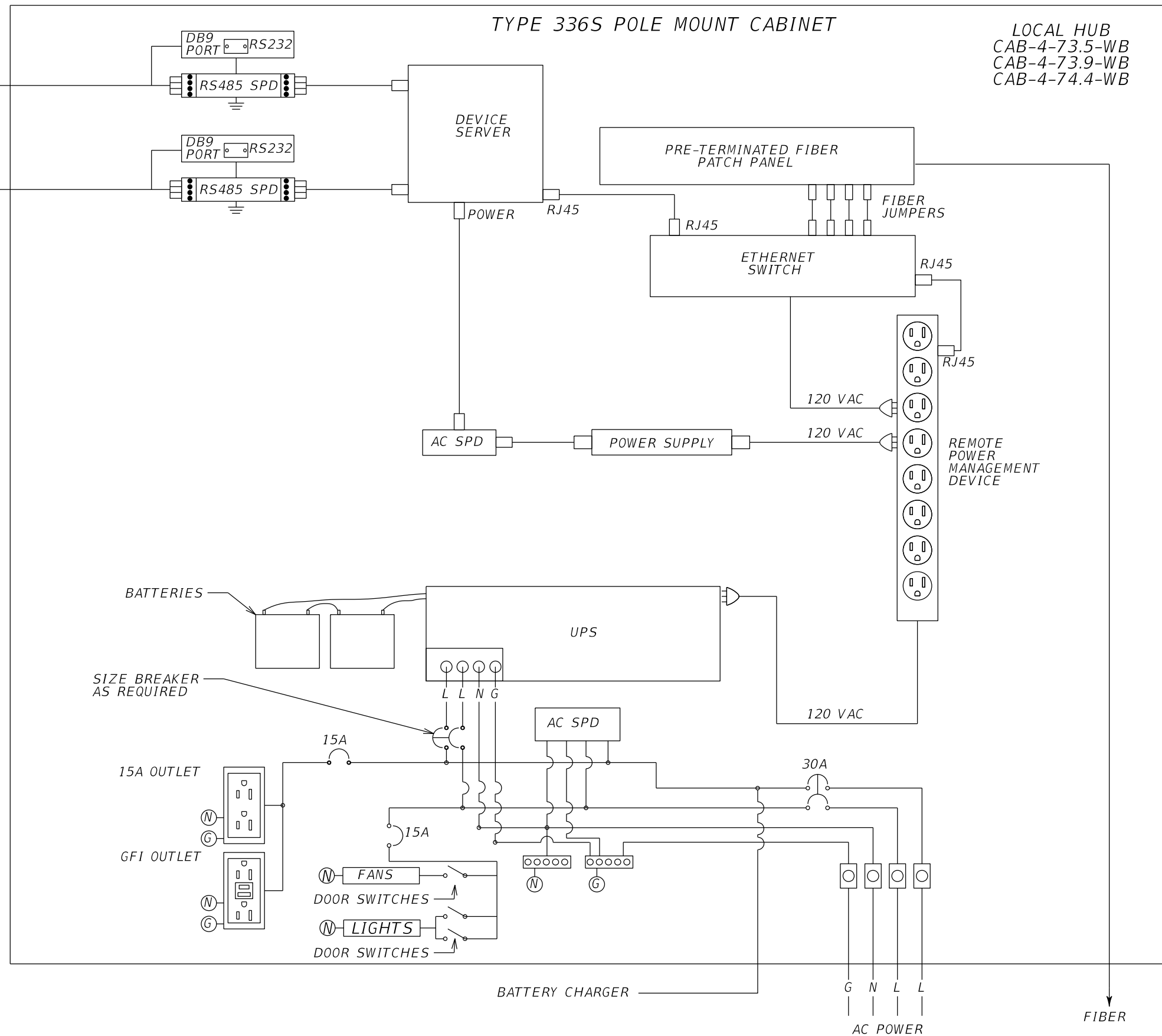
LOCAL HUB
 CAB-4-73.5-WB
 CAB-4-73.9-WB
 CAB-4-74.4-WB

MVDS #1

MVDS COMPOSITE CABLE FOR
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MVDS #2

MVDS COMPOSITE CABLE FOR
 POWER & COMMUNICATION



NOTES:

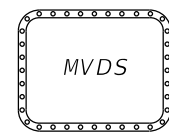
1. THIS DRAWING IS PROVIDED FOR ILLUSTRATION PURPOSES WITH GENERAL EQUIPMENT ARRANGEMENTS SHOWN. ACTUAL EQUIPMENT DETERMINED BY GOVERNING CONTRACT DOCUMENTS.
2. UPS BATTERY SIZE AND QUANTITY SHALL BE DETERMINED BY ELECTRICAL CALCULATIONS.
3. REMOTE POWER MANAGEMENT DEVICE SHALL MEET GOVERNING CONTRACT DOCUMENT REQUIREMENTS.

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			WIRING DIAGRAM (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	444315-1-52-01		IT-52

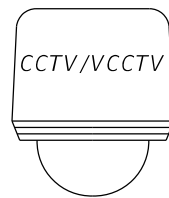
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TYPE 336S POLE MOUNT CABINET

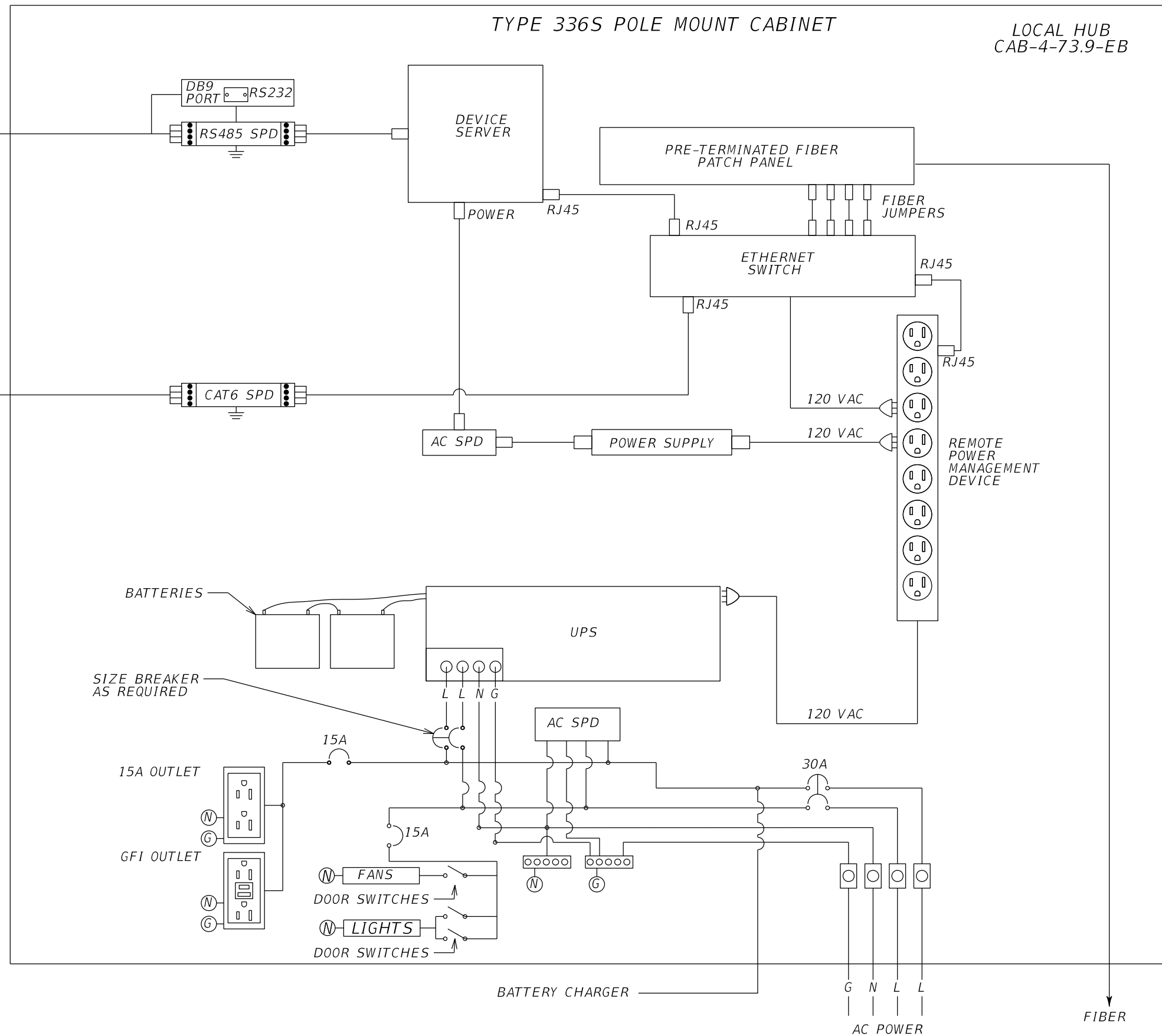
LOCAL HUB
CAB-4-73.9-EB



MVDS COMPOSITE CABLE FOR
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CAT6 COMPOSITE CABLE FOR
POWER & COMMUNICATION



NOTES:

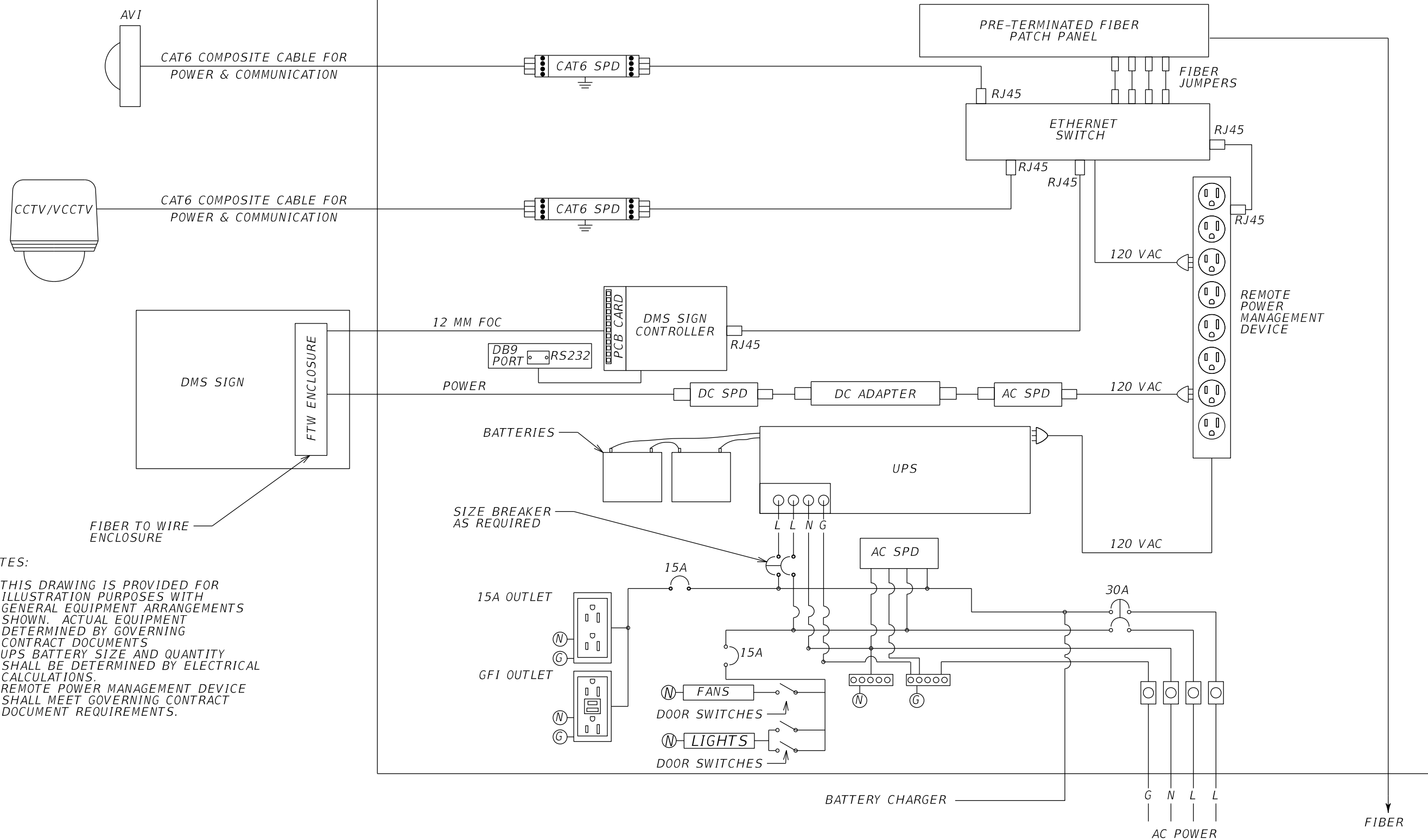
1. THIS DRAWING IS PROVIDED FOR ILLUSTRATION PURPOSES WITH GENERAL EQUIPMENT ARRANGEMENTS SHOWN. ACTUAL EQUIPMENT DETERMINED BY GOVERNING CONTRACT DOCUMENTS.
2. UPS BATTERY SIZE AND QUANTITY SHALL BE DETERMINED BY ELECTRICAL CALCULATIONS.
3. REMOTE POWER MANAGEMENT DEVICE SHALL MEET GOVERNING CONTRACT DOCUMENT REQUIREMENTS.

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			WIRING DIAGRAM (5)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	444315-1-52-01		IT-53

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

TYPE 334 GROUND MOUNT CABINET

LOCAL HUB
CAB-4-74.0-WB



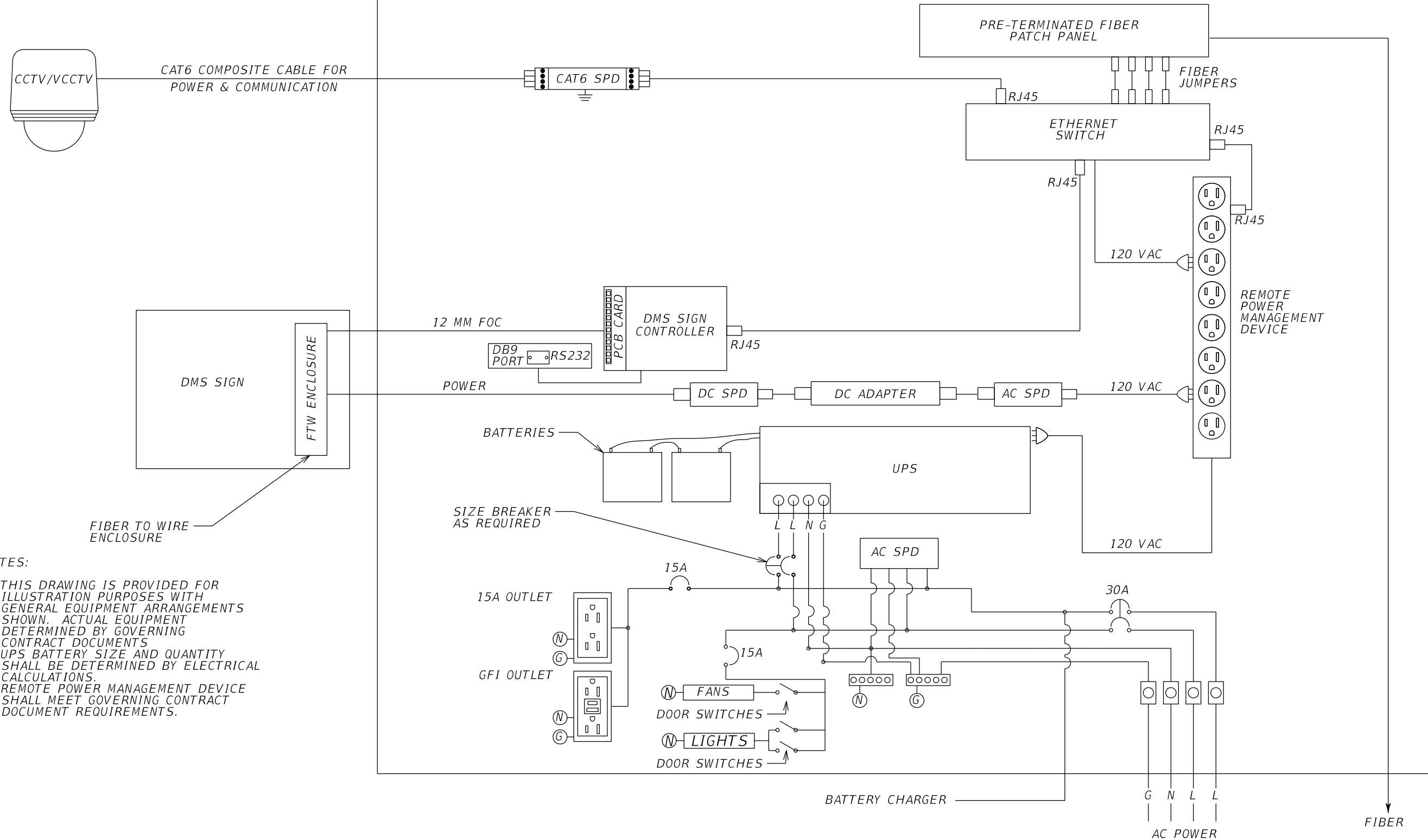
- NOTES:
1. THIS DRAWING IS PROVIDED FOR ILLUSTRATION PURPOSES WITH GENERAL EQUIPMENT ARRANGEMENTS SHOWN. ACTUAL EQUIPMENT DETERMINED BY GOVERNING CONTRACT DOCUMENTS.
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REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. WIRING DIAGRAM (6) IT-54
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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

TYPE 336S POLE MOUNT CABINET

LOCAL HUB
CAB-4-74.1-EB



- NOTES:
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 3. REMOTE POWER MANAGEMENT DEVICE SHALL MEET GOVERNING CONTRACT DOCUMENT REQUIREMENTS.

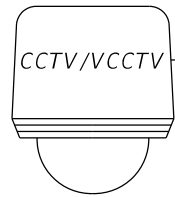
REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-55
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

WIRING DIAGRAM (7)

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TYPE 334 GROUND MOUNT CABINET

LOCAL HUB
CAB-4-74.2-EB
CAB-4-74.6-EB



CAT6 COMPOSITE CABLE FOR
POWER & COMMUNICATION



FIBER
JUMPERS



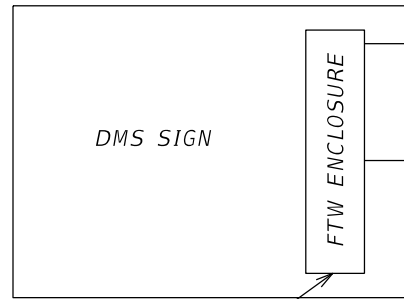
RJ45

RJ45

120 VAC

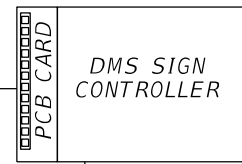
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REMOTE
POWER
MANAGEMENT
DEVICE



DMS SIGN

12 MM FOC

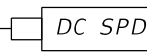


RJ45



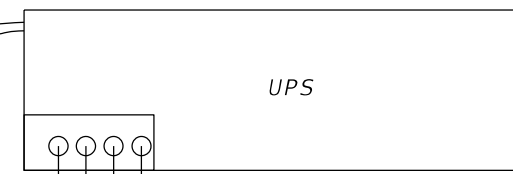
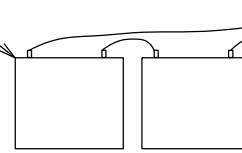
RS232

POWER



120 VAC

BATTERIES



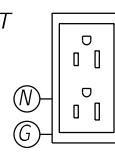
UPS

120 VAC

SIZE BREAKER
AS REQUIRED

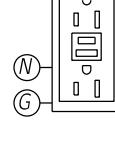


15A OUTLET



15A

GFI OUTLET



15A

FANS

DOOR SWITCHES

LIGHTS

DOOR SWITCHES

BATTERY CHARGER

G N L L

AC POWER

FIBER

NOTES:

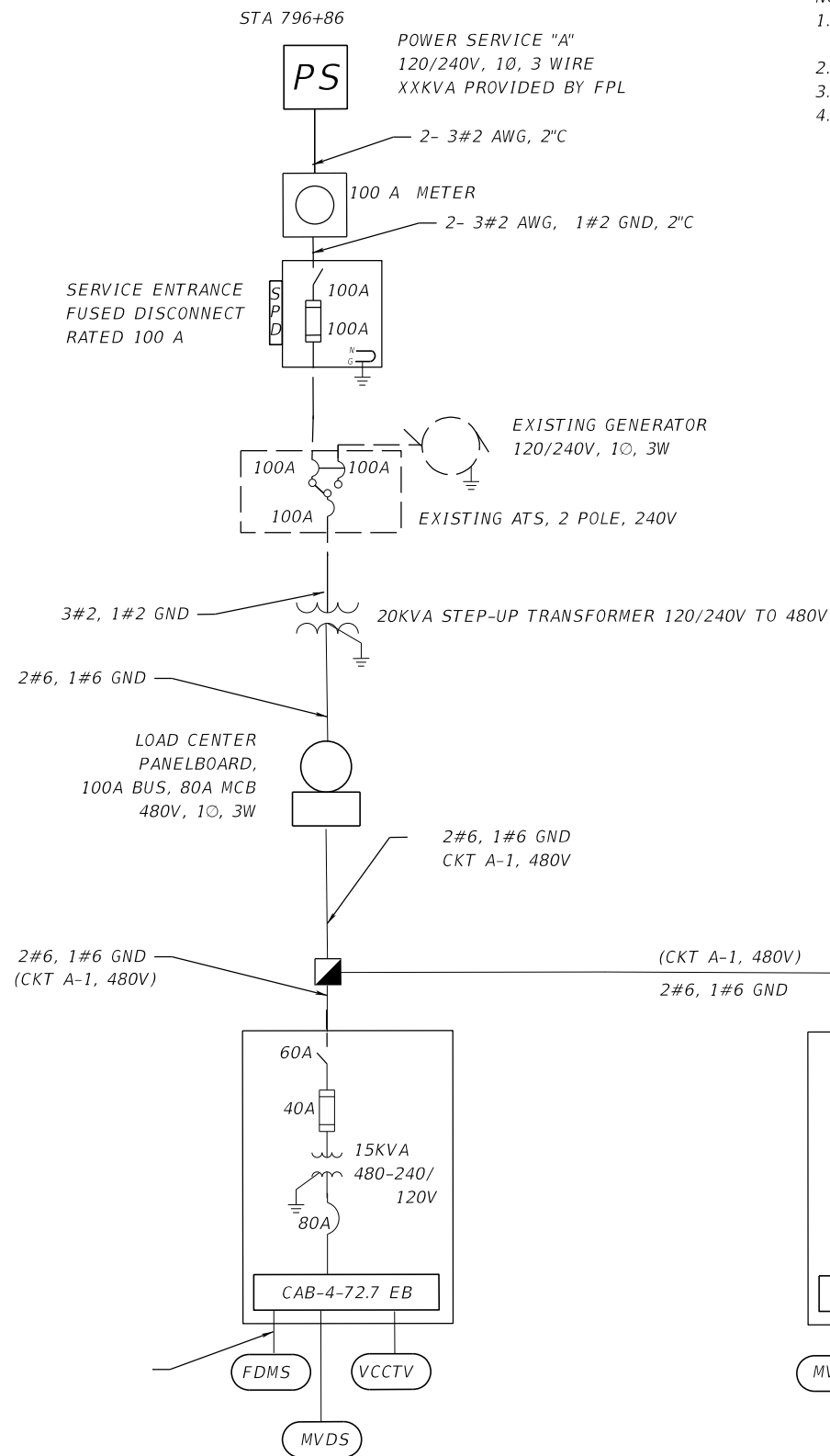
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FIBER TO WIRE
ENCLOSURE

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. WIRING DIAGRAM (8) IT-56
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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

SERVICE POINT "A"



NOTES

- UNLESS OTHERWISE NOTED ALL 480V ITS CIRCUITS SHALL BE 2#6, 1#6 GND.
ALL CABLES ON THE SECONDARY SIDE OF THE TRANSFORMER SHALL BE 3#6,1#6 GND.
- REFER TO PLAN SHEETS FOR PULL BOXES AND CONDUIT ROUTING
- UNLESS OTHERWISE NOTED ALL CONDUITS ARE 2"
- ALL EXISTING EQUIPMENT AT THE SERVICE POINT A WILL BE REMOVED AND REPLACED WITH ITEMS SHOWN.

480V, 1Ø, 3W						LOAD CENTER PANEL SCHEDULE "A"						30KAIC		80A MCB	
SLOT NO	CKT	VA	AMPS	BREAKER	LOAD	SLOT NO	CKT	VA	AMPS	BREAKER	LOAD				
1	A-1	11019.8	22.96	60/2	ITS	2									
3	-					4									
TOTAL CONNECTED LOAD: 11019.8 VA (22.96A)						TOTAL DEMAND LOAD: 13374.75 VA (28.7A)									

NOT TO SCALE

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ELECTRICAL LAYOUT (1) IT-57
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

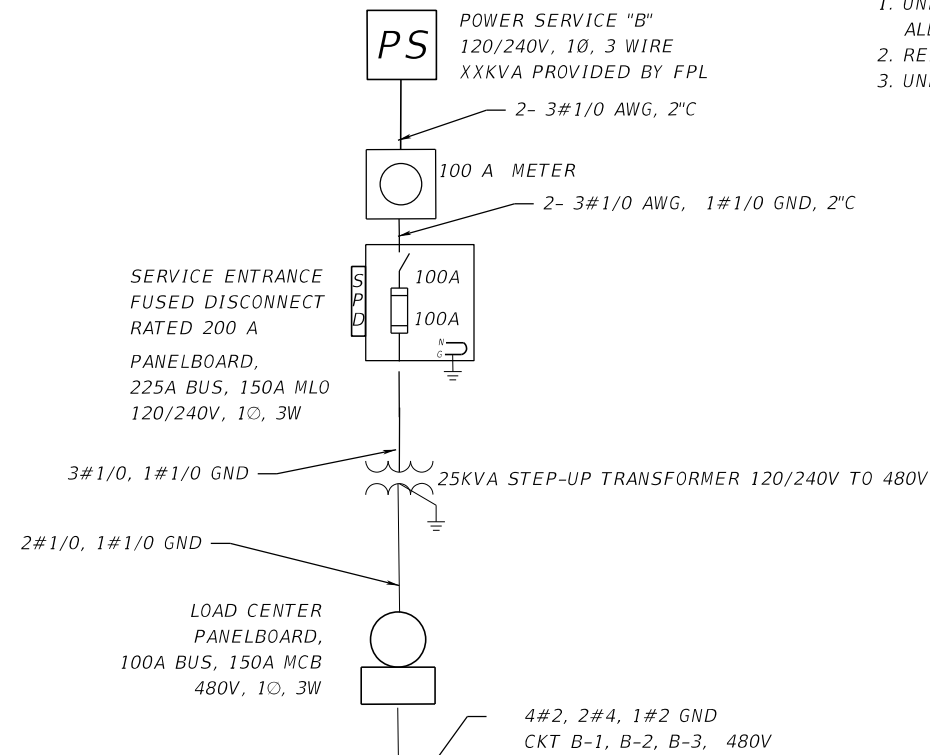
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SERVICE POINT "B"

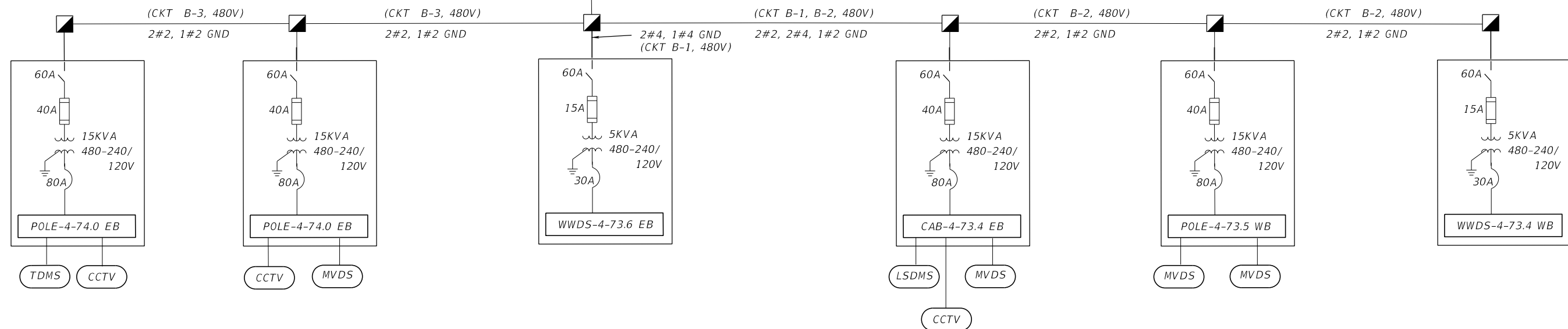
STA 7209+52

NOTES

- UNLESS OTHERWISE NOTED ALL 480V ITS CIRCUITS SHALL BE 2#6, 1#6 GND.
ALL CABLES ON THE SECONDARY SIDE OF THE TRANSFORMER SHALL BE 3#6,1#6 GND.
- REFER TO PLAN SHEETS FOR PULL BOXES AND CONDUIT ROUTING
- UNLESS OTHERWISE NOTED ALL CONDUITS ARE 2"



480V, 1Ø, 3W						LOAD CENTER PANEL SCHEDULE "B"						30KAIC		80A MCB	
SLOT NO	CKT	VA	AMPS	BREAKER	LOAD	SLOT NO	CKT	VA	AMPS	BREAKER	LOAD				
1	B-1	9218	19.20	30/2	ITS	2	B-2	9285.6	19.20	30/2	ITS				
3	B-3	2909.6	17.28			4									
TOTAL CONNECTED LOAD: 21413.2 VA (44.6A)						TOTAL DEMAND LOAD: 26766.5 VA (55.76A)									



NOT TO SCALE

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ELECTRICAL LAYOUT (2) IT-58
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
			SR 400		ORANGE	444315-1-52-01		

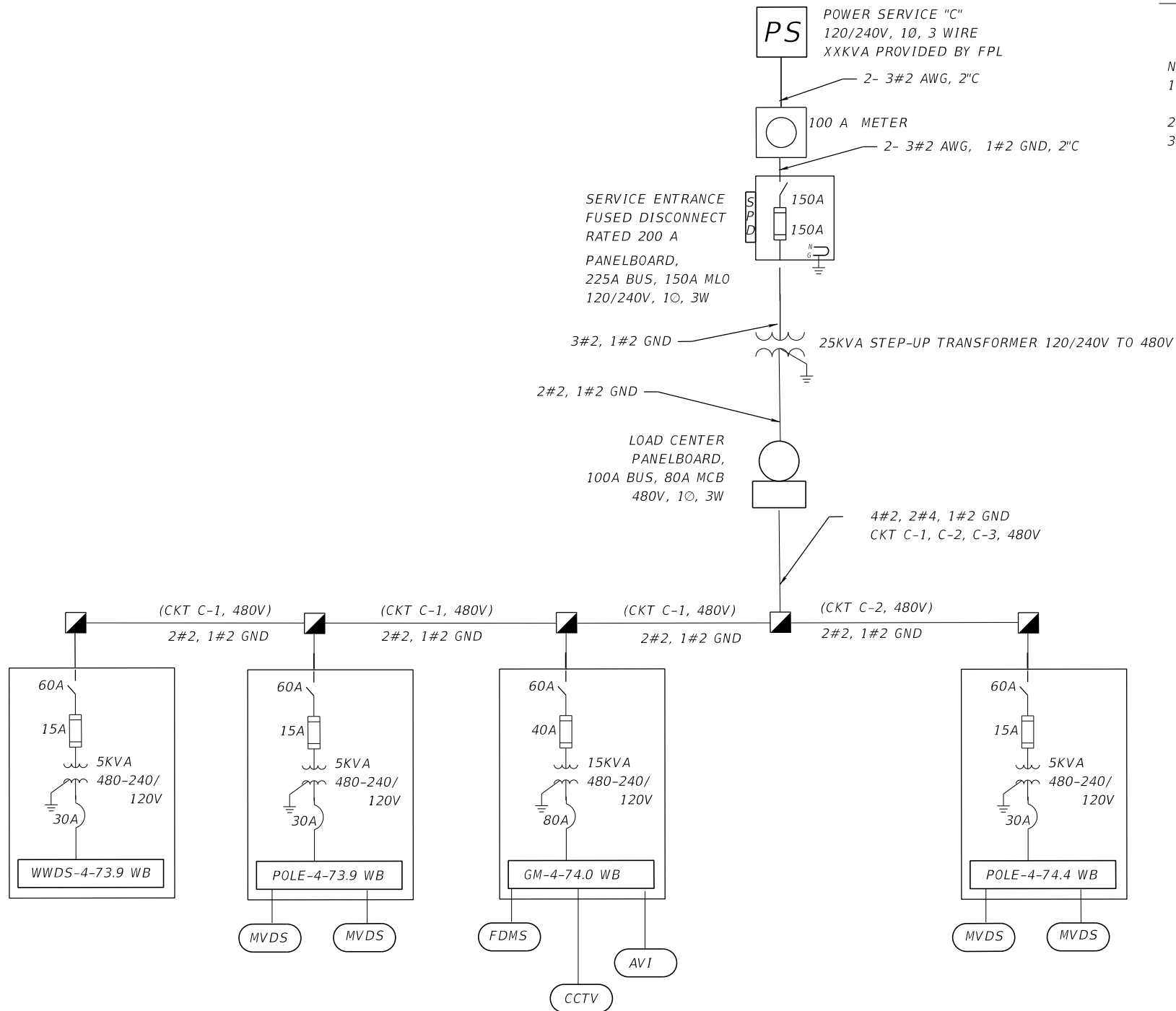
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SERVICE POINT "C"

STA 7245+20

NOTES

1. UNLESS OTHERWISE NOTED ALL 480V ITS CIRCUITS SHALL BE 2#6, 1#6 GND.
ALL CABLES ON THE SECONDARY SIDE OF THE TRANSFORMER SHALL BE 3#6,1#6 GND.
2. REFER TO PLAN SHEETS FOR PULL BOXES AND CONDUIT ROUTING
3. UNLESS OTHERWISE NOTED ALL CONDUITS ARE 2"



480V, 1Ø, 3W						LOAD CENTER PANEL SCHEDULE "C"						30KAIC	125A MCB
SLOT NO	CKT	VA	AMPS	BREAKER	LOAD	SLOT NO	CKT	VA	AMPS	BREAKER	LOAD		
1	C-1	10968.6	22.85	30/2	ITS	2	C-2	3886.4	8.09	30/2	ITS		
3	C-3	8152	16.98	30/2	FUTURE DMS	4							
TOTAL CONNECTED LOAD: 23007 VA (47.93A)						TOTAL DEMAND LOAD: 28758.75 VA (59.91A)							

NOT TO SCALE

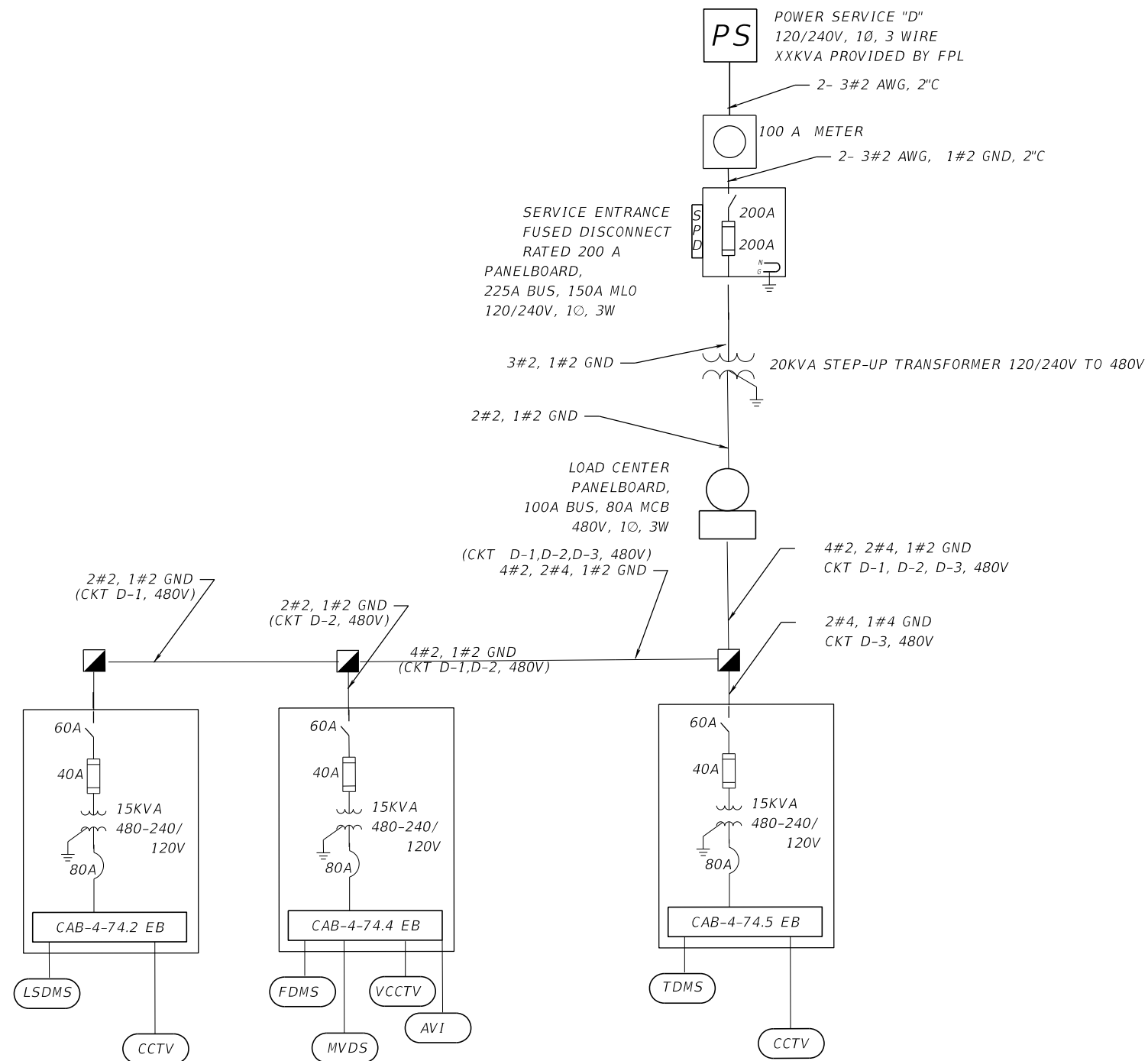
REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ELECTRICAL LAYOUT (3) IT-59
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

SERVICE POINT "D"

STA 7268+80

NOTES

- UNLESS OTHERWISE NOTED ALL 480V ITS CIRCUITS SHALL BE 2#6, 1#6 GND.
ALL CABLES ON THE SECONDARY SIDE OF THE TRANSFORMER SHALL BE 3#6,1#6 GND.
- REFER TO PLAN SHEETS FOR PULL BOXES AND CONDUIT ROUTING
- UNLESS OTHERWISE NOTED ALL CONDUITS ARE 2"



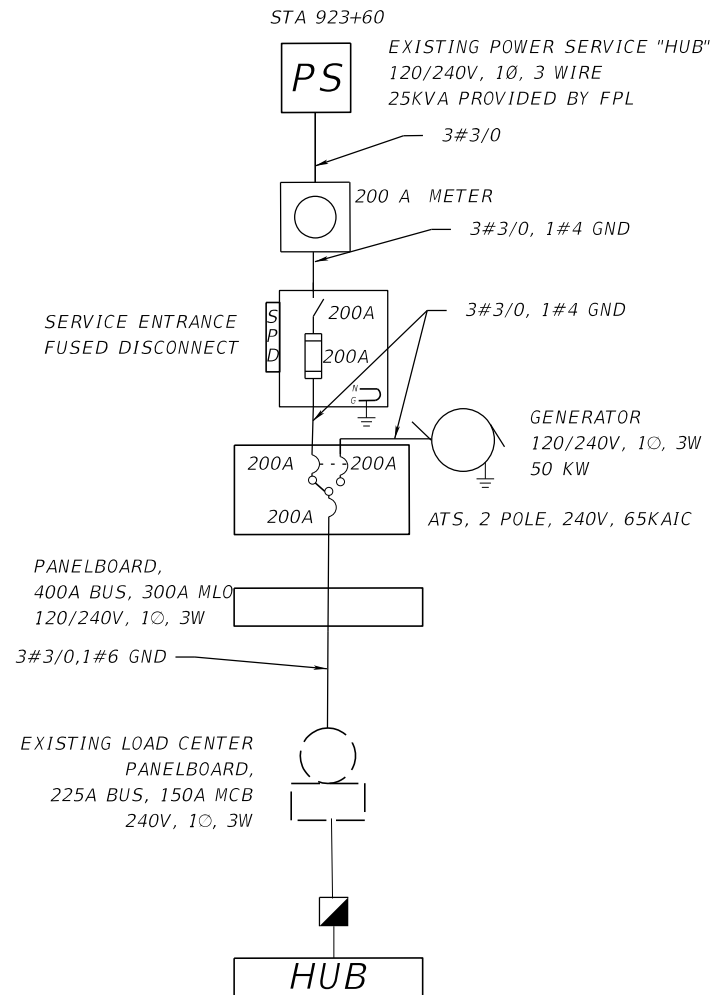
480V, 10, 3W						LOAD CENTER PANEL SCHEDULE "D"						30KAIC		80A MCB	
SLOT NO	CKT	VA	AMPS	BREAKER	LOAD	SLOT NO	CKT	VA	AMPS	BREAKER	LOAD				
1	D-1	8152	16.98	30/2	ITS	2	D-2	9902.6	20.63	30/2	ITS				
3	D-3	8152	16.98	30/2	ITS	4					ITS				
TOTAL CONNECTED LOAD: 29042.2 VA (60.50A)						TOTAL DEMAND LOAD: 36302.75 VA (75.63A)									

NOT TO SCALE

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ELECTRICAL LAYOUT (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	444315-1-52-01		IT-60

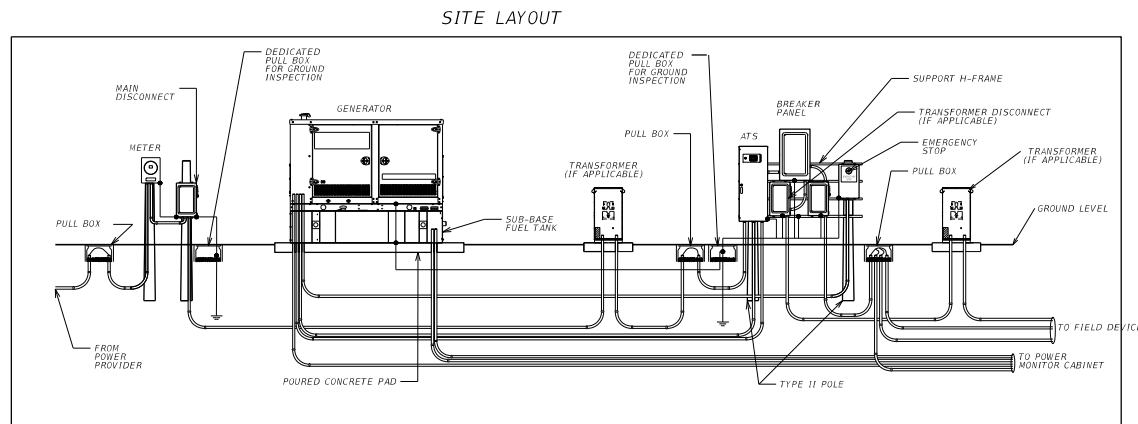
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EXISTING SERVICE POINT
HUB-ESP-4-75.0-EB



NOTES

1. REFER TO PLAN SHEETS FOR PULL BOXES AND CONDUIT ROUTING
2. UNLESS OTHERWISE NOTED ALL CONDUITS ARE 2"



120/240V, 1Ø, 3W						PANEL SCHEDULE (GENERATOR)						42KAIC 300A MAIN LUGS	
SLOT NO	CKT	VA	AMPS	BREAKER	LOAD	SLOT NO	CKT	VA	AMPS	BREAKER	LOAD		
1	1	1000	8.3	20/1	GENERATOR HEATER	2	2	500	4.2	20/1	BATTERY CHARGER		
3	3	30000	125	300/2	TRANSFORMER	4							
TOTAL CONNECTED LOAD: 31500VA (131.25)						TOTAL DEMAND LOAD: 39375VA (164.06A)							

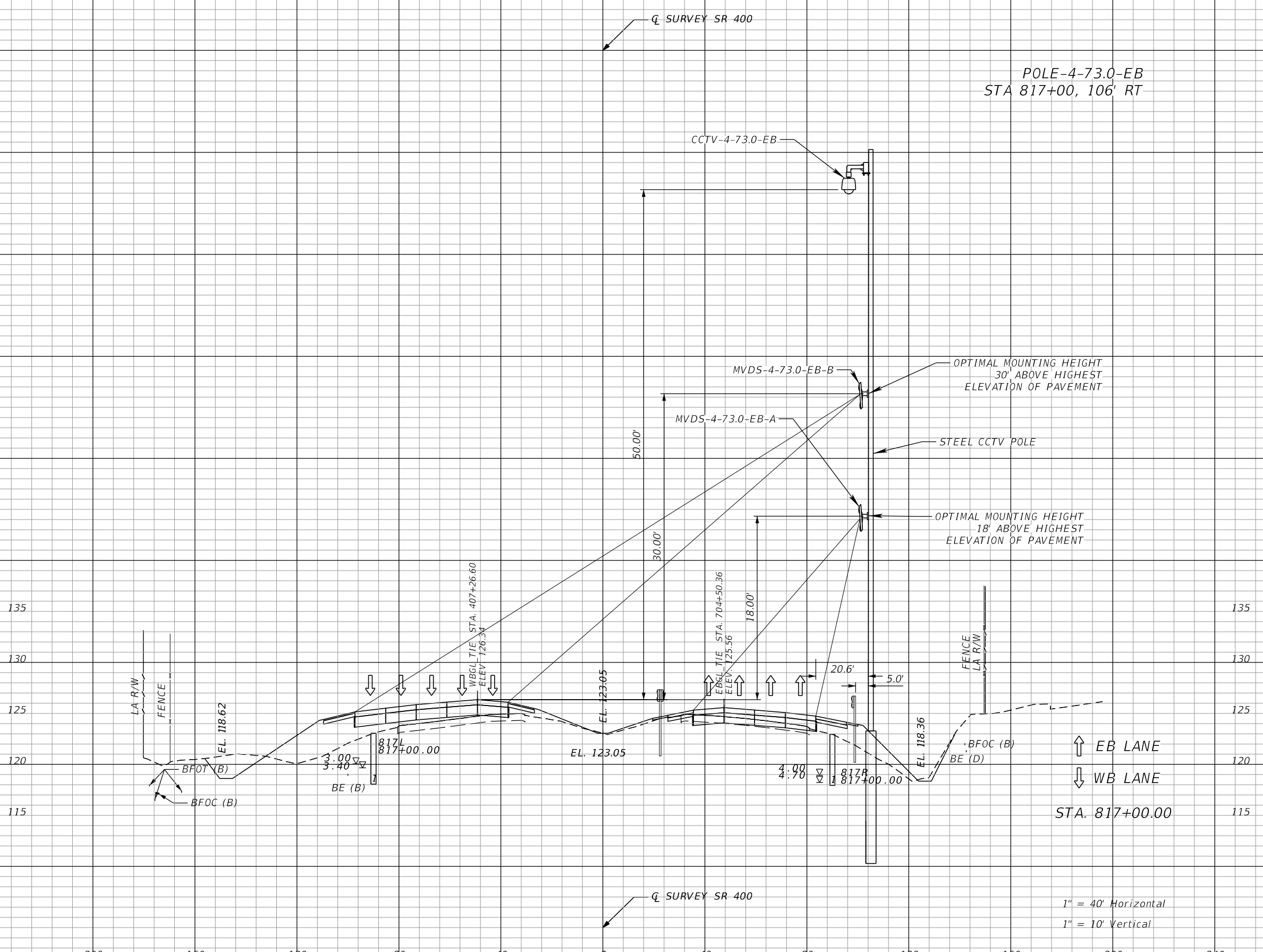
240V, 1Ø, 3W						LOAD CENTER PANEL SCHEDULE "HUB"						42KAIC 200A MCB	
SLOT NO	CKT	VA	AMPS	BREAKER	LOAD	SLOT NO	CKT	VA	AMPS	BREAKER	LOAD		
1	HUB	30000	180	200/2	ITS	2							
3	-	-	-	-		4							
TOTAL CONNECTED LOAD: 30000 VA (125 A)						TOTAL DEMAND LOAD: 37500 VA (156.25A)							

NOT TO SCALE

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ELECTRICAL LAYOUT (5)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		444315-1-52-01

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POLE-4-73.0-EB
STA 817+00, 106' RT



↑ EB LANE
↓ WB LANE
STA. 817+00.00

1" = 40' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

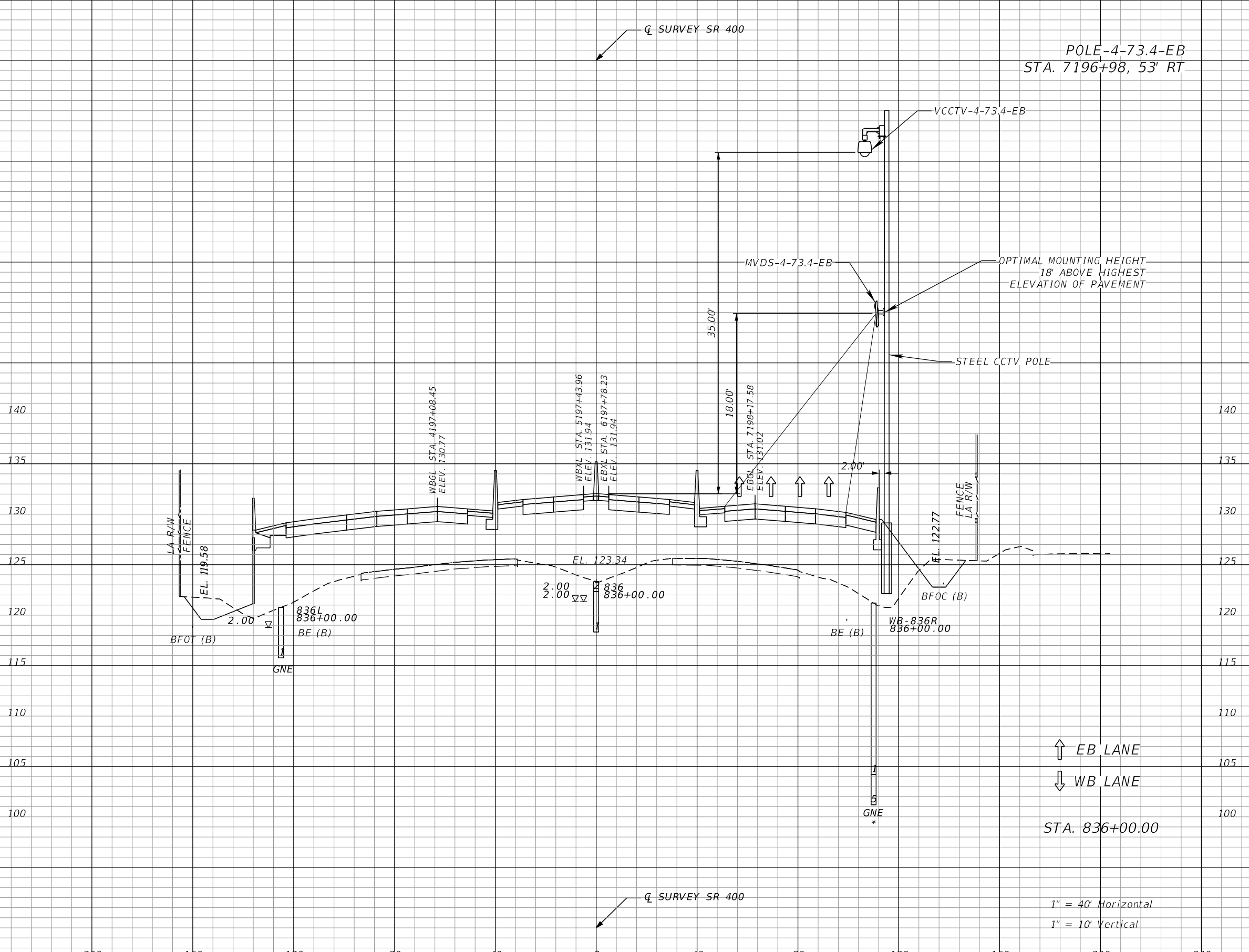
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS CROSS SECTION (1)

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.

POLE-4-73.4-EB
STA. 7196+98, 53' RT



↑ EB LANE
↓ WB LANE

STA. 836+00.00

1" = 40' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

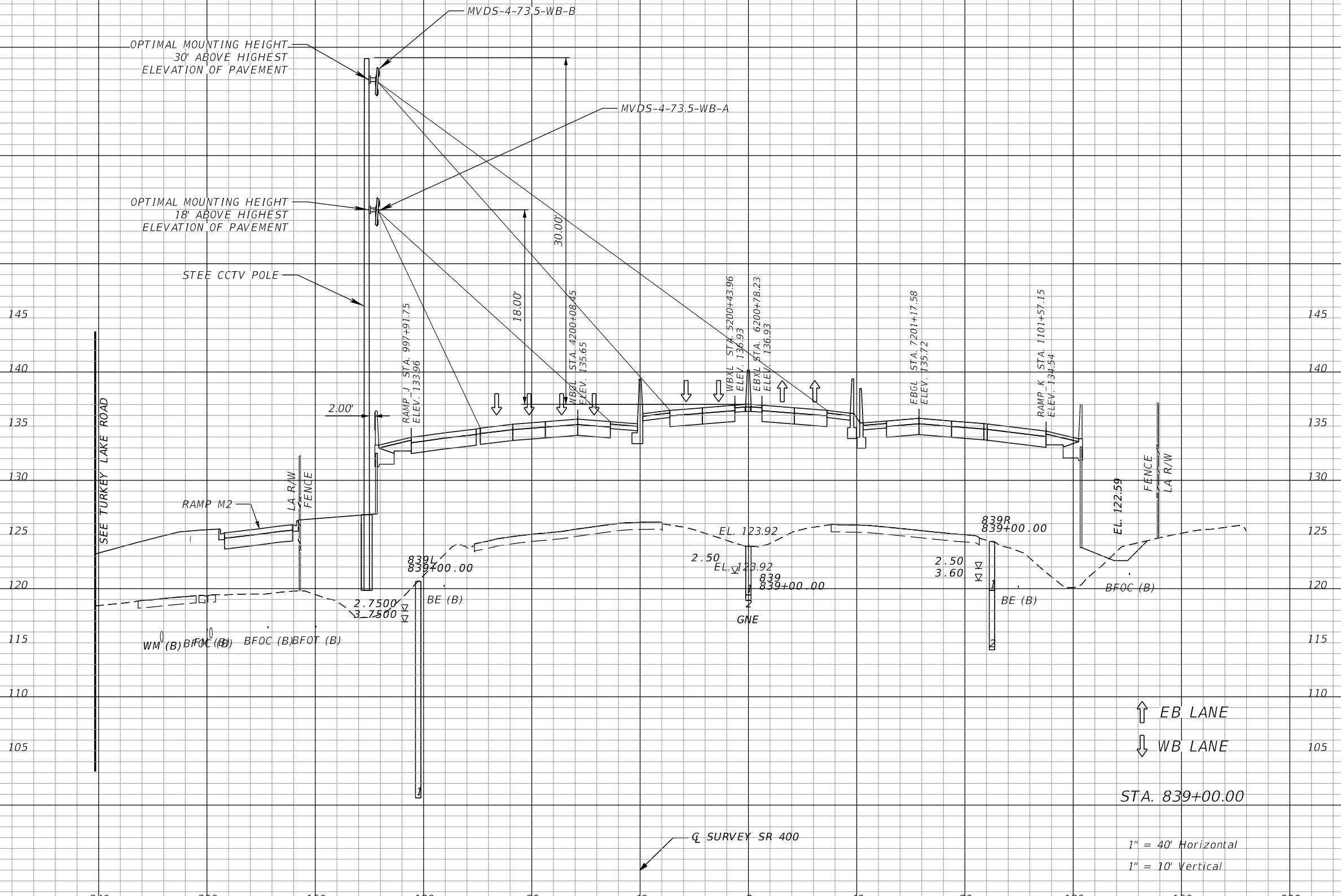
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS CROSS SECTION (2)

SHEET NO.
IT-63

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

POLE-4-73.5-WB
STA. 7201+18, 204' LT



↑ EB LANE
↓ WB LANE

STA. 839+00.00

1" = 40' Horizontal
1" = 10' Vertical

REVISIONS	
DATE	DESCRIPTION

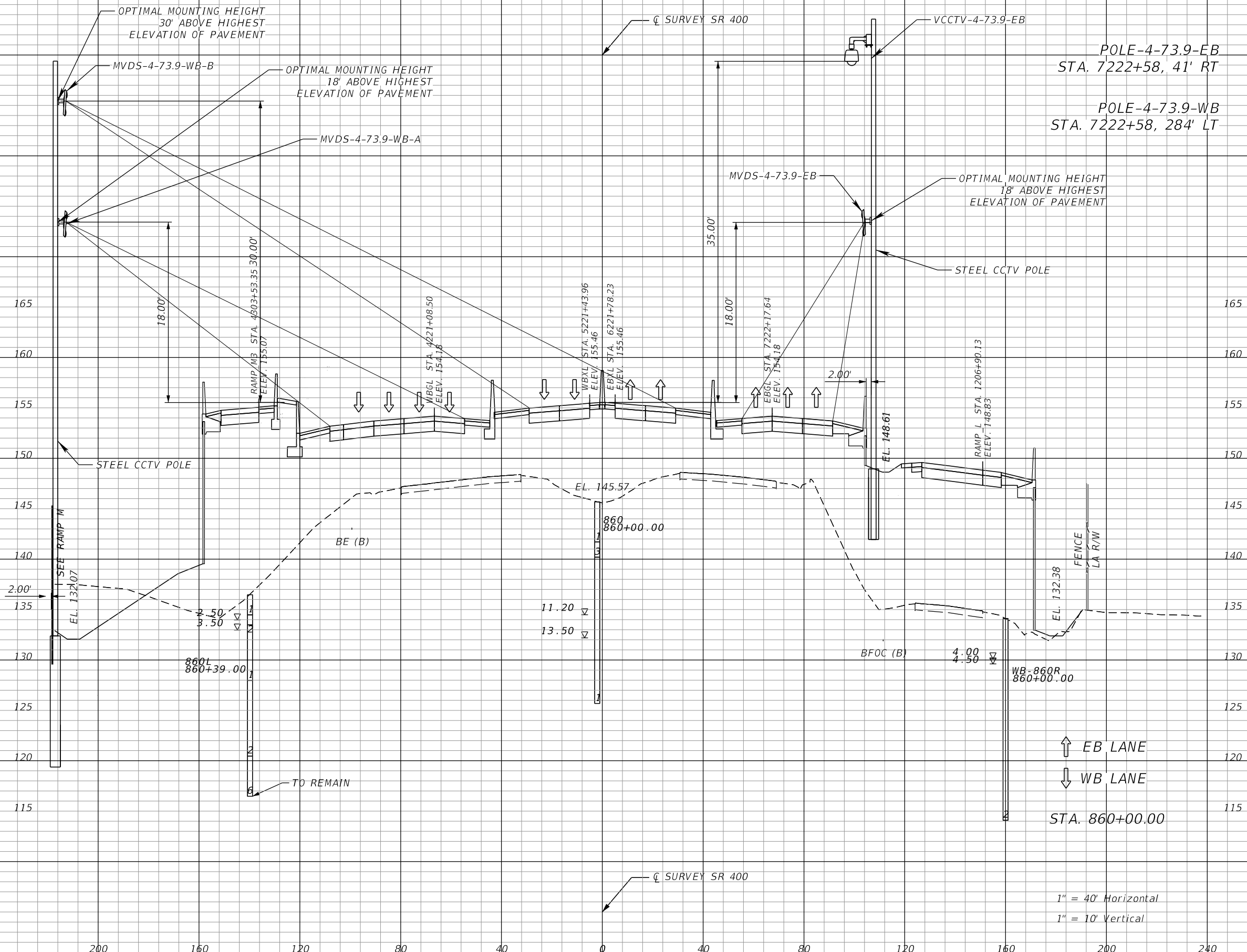
Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS CROSS SECTION (3)

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.



POLE-4-73.9-EB
STA. 7222+58, 41' RT

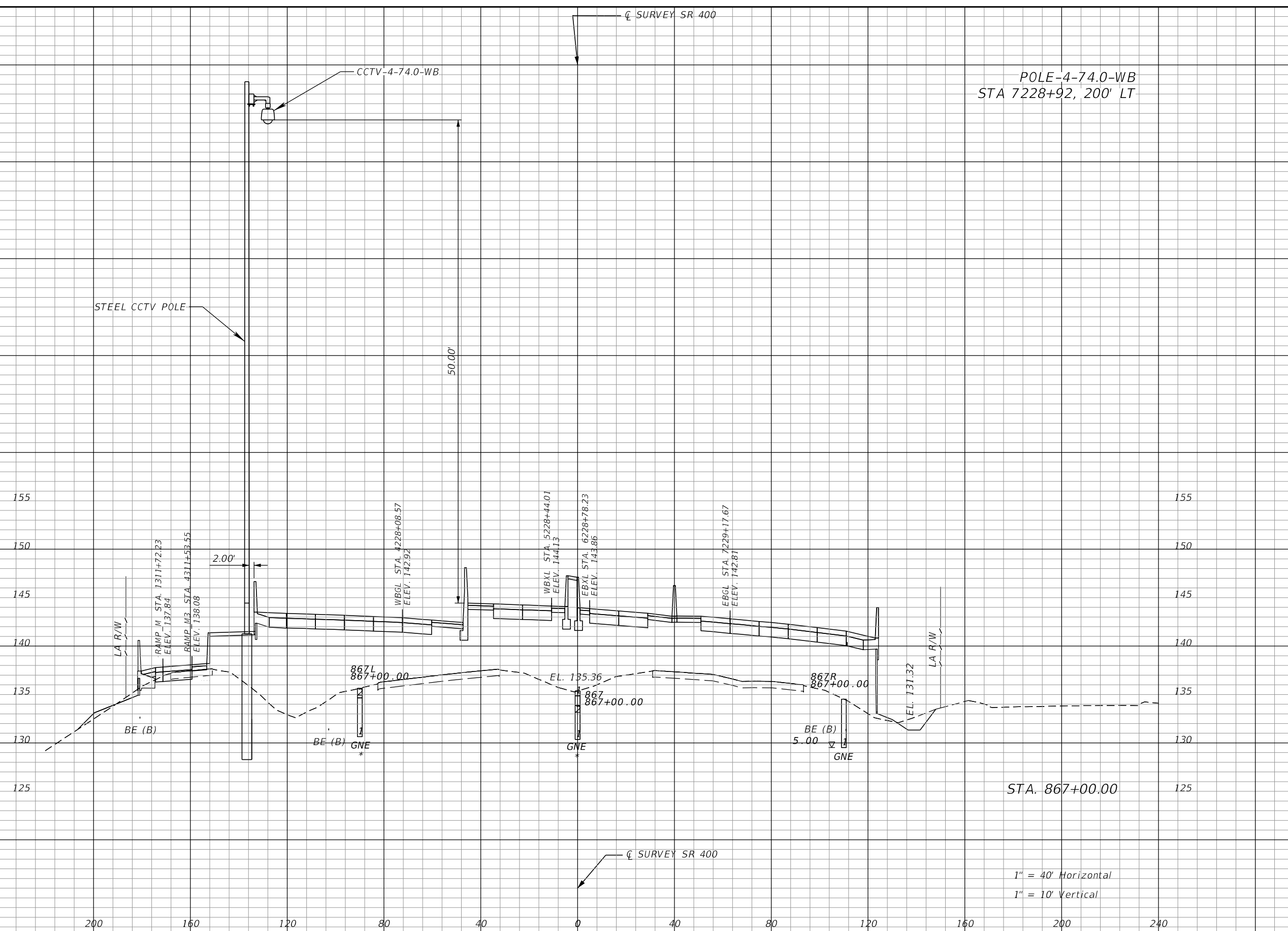
POLE-4-73.9-WB
STA. 7222+58, 284' LT

↑ EB LANE
↓ WB LANE
STA. 860+00.00

1" = 40' Horizontal
1" = 10' Vertical

REVISIONS		REVISIONS		Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ITS CROSS SECTION (4)
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
 P.E. License No. 71730
 Jacobs Engineering Group, Inc.
 200 S. Orange Avenue, Suite 900
 Orlando, FL 32801
 PH (407) 903-5290

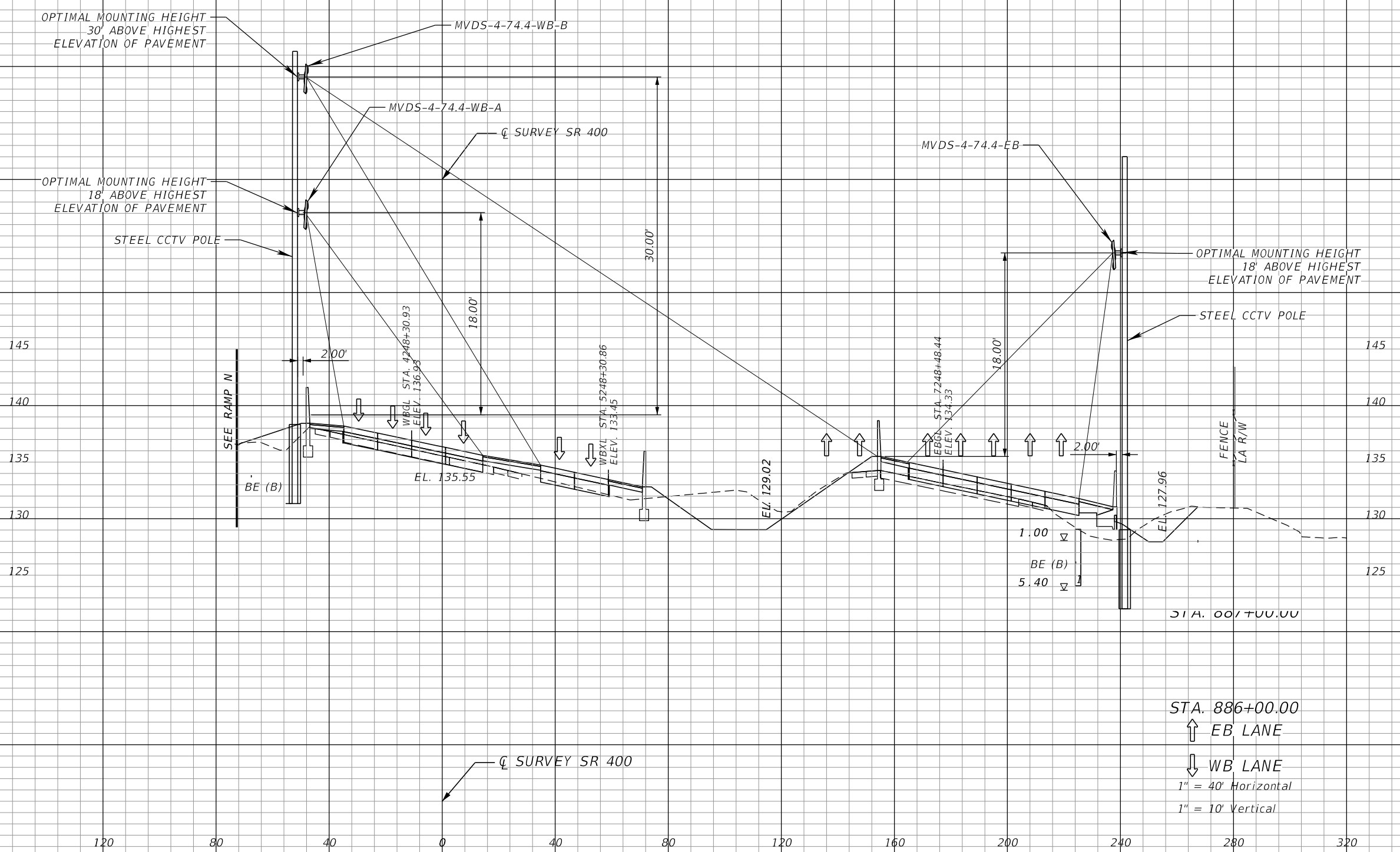
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS CROSS SECTION (5)
 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.

POLE-4-74.4-WB
STA 7248+40, 279' LT

POLE-4-74.4-EB
STA 7248+40, 65' RT



STA. 886+00.00
↑ EB LANE
↓ WB LANE
1" = 40' Horizontal
1" = 10' Vertical

REVISIONS	
DATE	DESCRIPTION

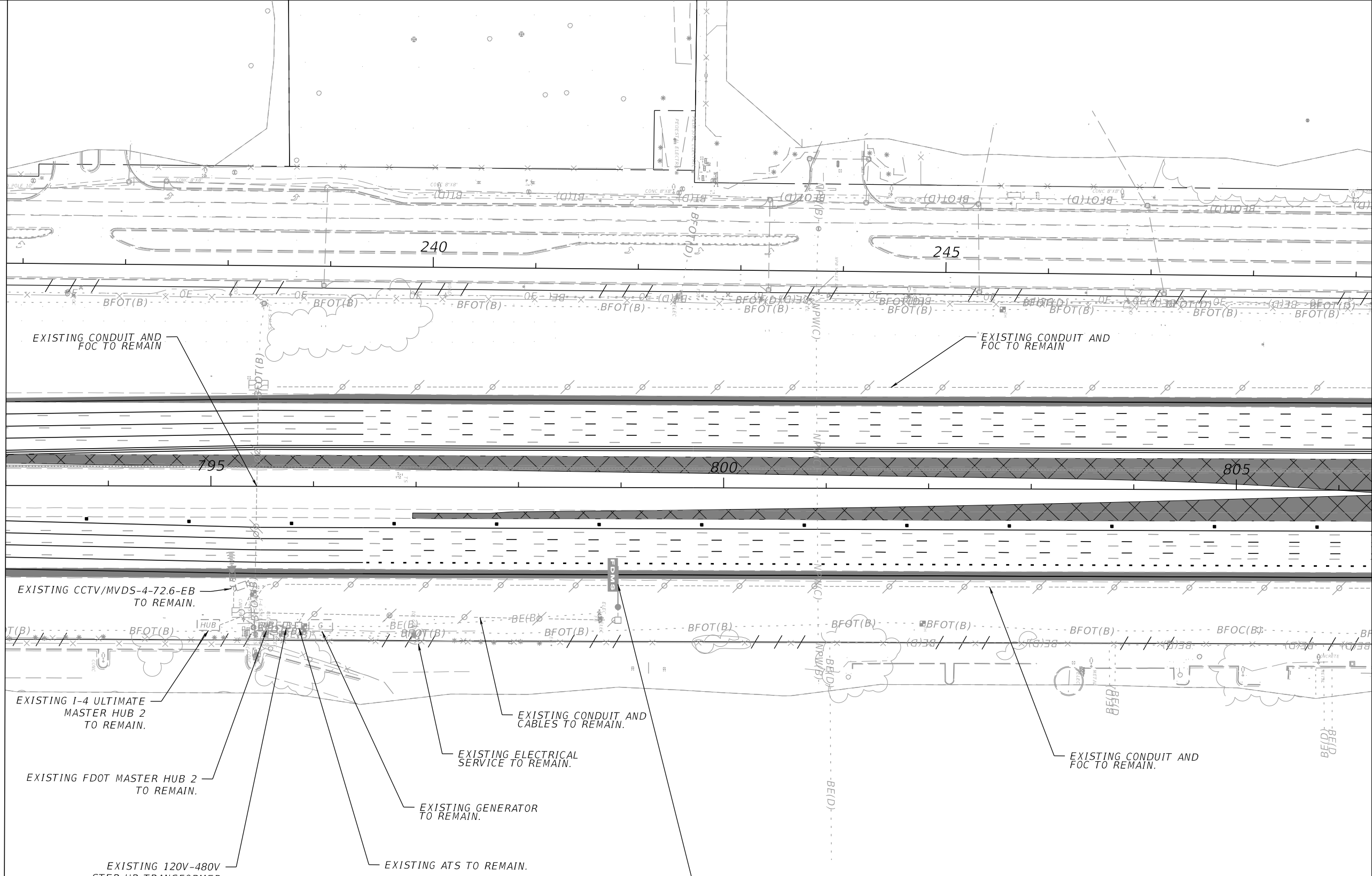
Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS CROSS SECTION (6)

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.



EXISTING CONDUIT AND FOC TO REMAIN

EXISTING CONDUIT AND FOC TO REMAIN

EXISTING CCTV/MVDS-4-72.6-EB TO REMAIN.

EXISTING I-4 ULTIMATE MASTER HUB 2 TO REMAIN.

EXISTING FDOT MASTER HUB 2 TO REMAIN.

EXISTING 120V-480V STEP UP TRANSFORMER TO REMAIN.

EXISTING ATs TO REMAIN.

EXISTING ELECTRICAL SERVICE TO REMAIN.

EXISTING CONDUIT AND CABLES TO REMAIN.

EXISTING FDMS TO REMAIN.

NOTES:

1. ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED NEW DEVICES AS CONTRACTOR IMPACTS THEM.

PHASE 1, SR 400 (I-4)

MATCH LINE 806+32.46
SEE ITS MOC PLAN (2)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

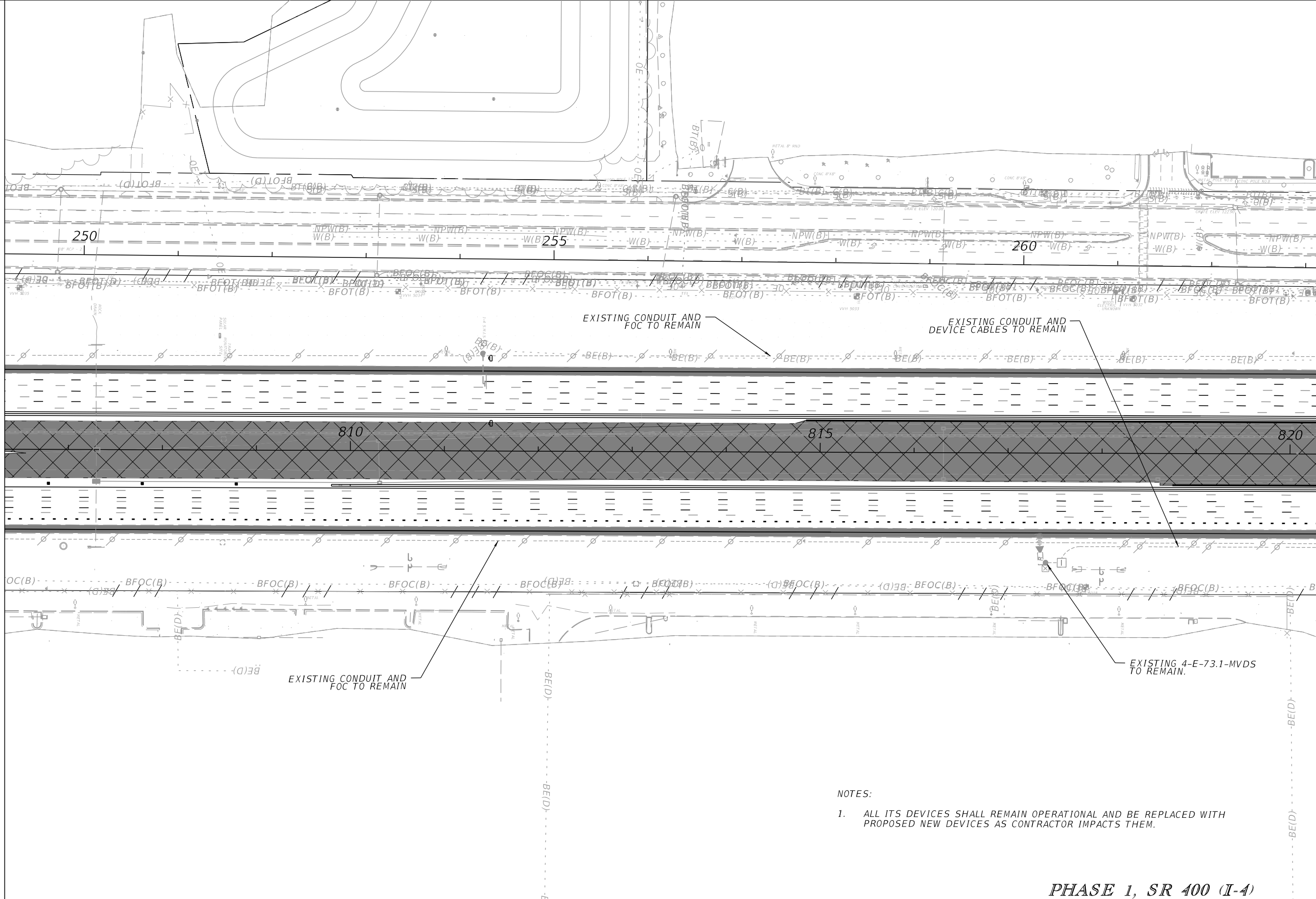
ITS MOC PLAN (1)

SHEET NO.
IT-M01

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

MATCH LINE 806+32.46
SEE ITS MOC PLAN (1)

MATCH LINE 820+32.77
SEE ITS MOC PLAN (3)



PHASE 1, SR 400 (I-4)

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

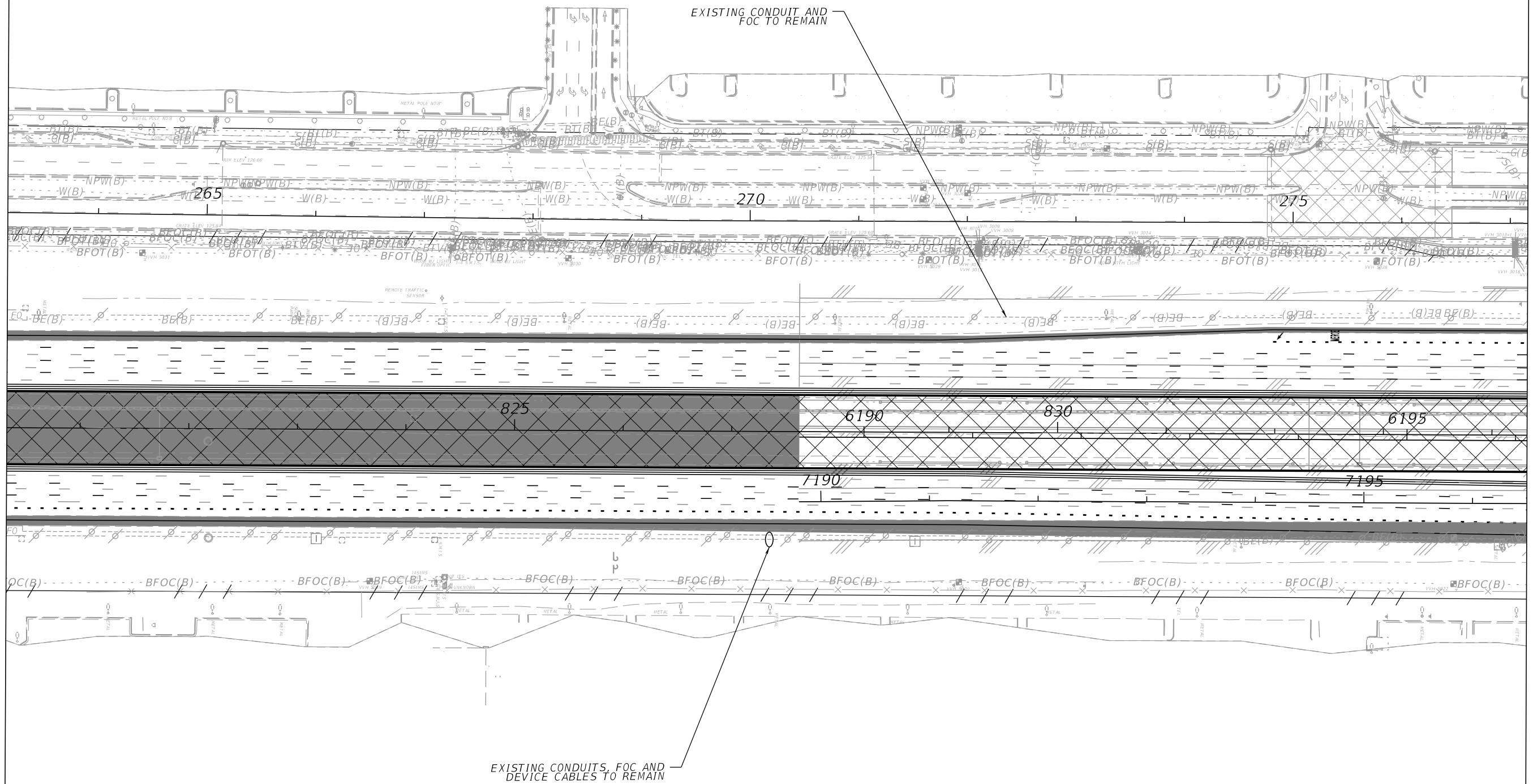
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS MOC PLAN (2)

SHEET NO.
IT-M02

MATCH LINE 820+32.77
SEE ITS MOC PLAN (2)

MATCH LINE 7196+50.00
SEE ITS MOC PLAN (4)



PHASE 1, SR 400 (I-4)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

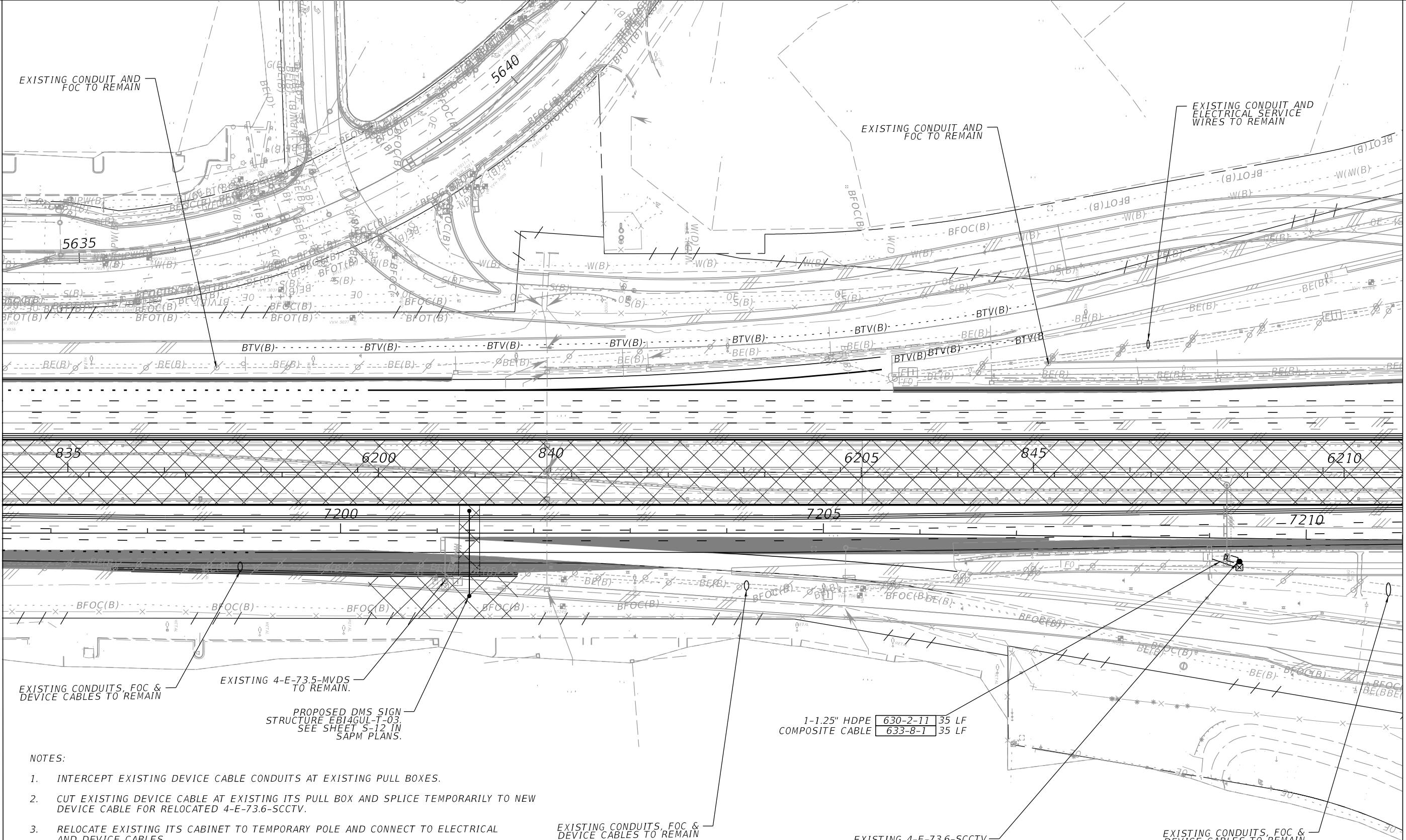
ITS MOC PLAN (3)

SHEET NO.
IT-M03

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

MATCH LINE 7196+50.00
SEE ITS MOC PLAN (3)

MATCH LINE 7211+00.00
SEE ITS MOC PLAN (5)



EXISTING CONDUITS, FOC & DEVICE CABLES TO REMAIN

EXISTING 4-E-73.5-MVDS TO REMAIN.

PROPOSED DMS SIGN STRUCTURE EBI4GUL-T-03. SEE SHEET S-12 IN SAPM PLANS.

EXISTING CONDUITS, FOC & DEVICE CABLES TO REMAIN

EXISTING CONDUITS, FOC & DEVICE CABLES TO REMAIN

NOTES:

- INTERCEPT EXISTING DEVICE CABLE CONDUITS AT EXISTING PULL BOXES.
- CUT EXISTING DEVICE CABLE AT EXISTING ITS PULL BOX AND SPLICE TEMPORARILY TO NEW DEVICE CABLE FOR RELOCATED 4-E-73.6-SCCTV.
- RELOCATE EXISTING ITS CABINET TO TEMPORARY POLE AND CONNECT TO ELECTRICAL AND DEVICE CABLES.
- ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED DEVICES AS CONTRACTOR IMPACTS THEM.
- CONTRACTOR SHALL INSTALL DMS SIGN STRUCTURE EBI4GUL-T-03 IN THIS MOT PHASE. SEE SHEET S-12 IN SAPM PLANS.

PHASE 1, SR 400 (I-4)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
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Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS MOC PLAN (4)

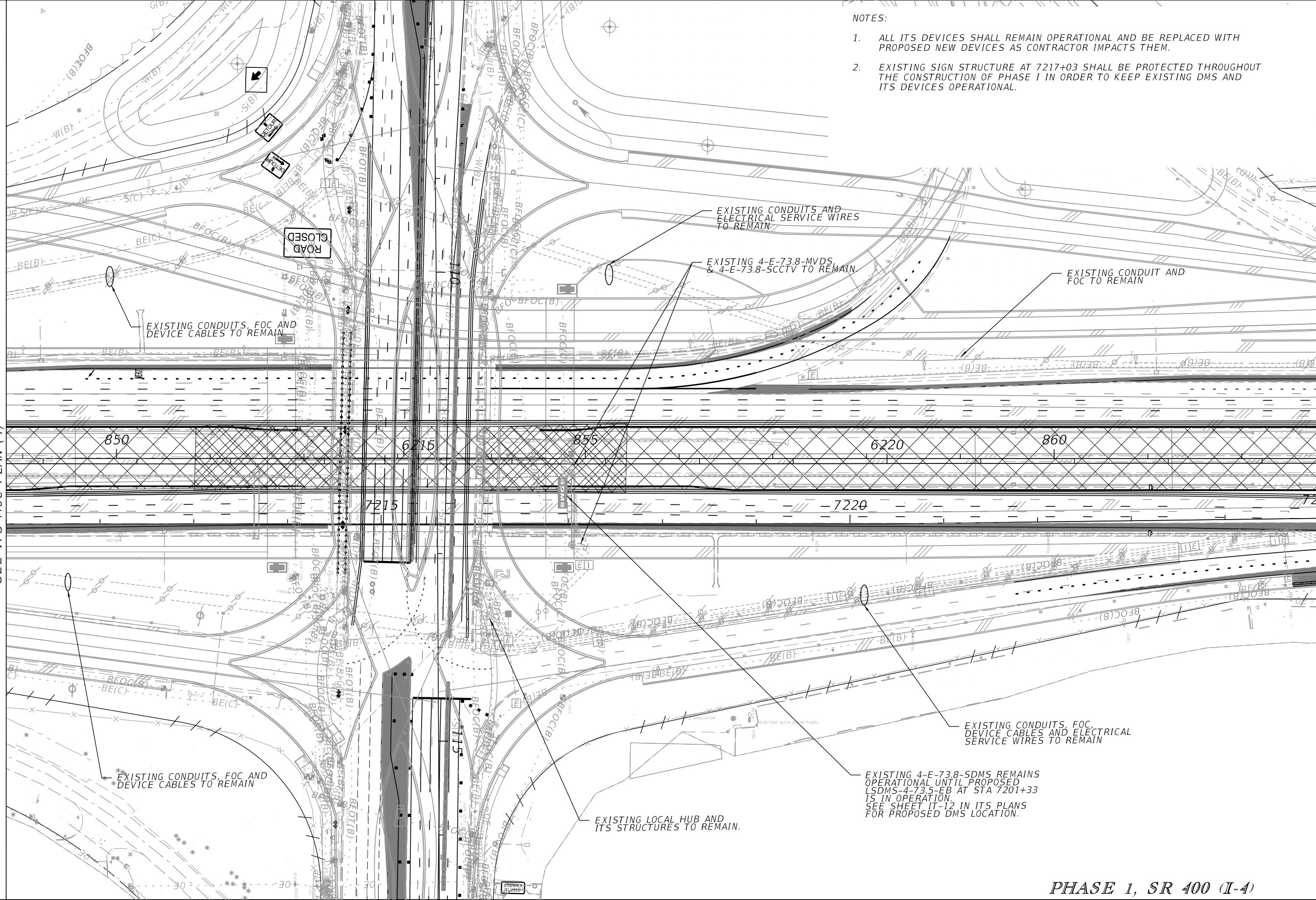
SHEET NO.
IT-M04

NOTES:

1. ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED NEW DEVICES AS CONTRACTOR IMPACTS THEM.
2. EXISTING SIGN STRUCTURE AT 7217+03 SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION OF PHASE I IN ORDER TO KEEP EXISTING DMS AND ITS DEVICES OPERATIONAL.

MATCH LINE 7211+00.00
SEE ITS MOC PLAN (4)

MATCH LINE 7225+00.00
SEE ITS MOC PLAN (6)



PHASE 1, SR 400 (I-4)

REVISIONS	
DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
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PH (407) 903-5290

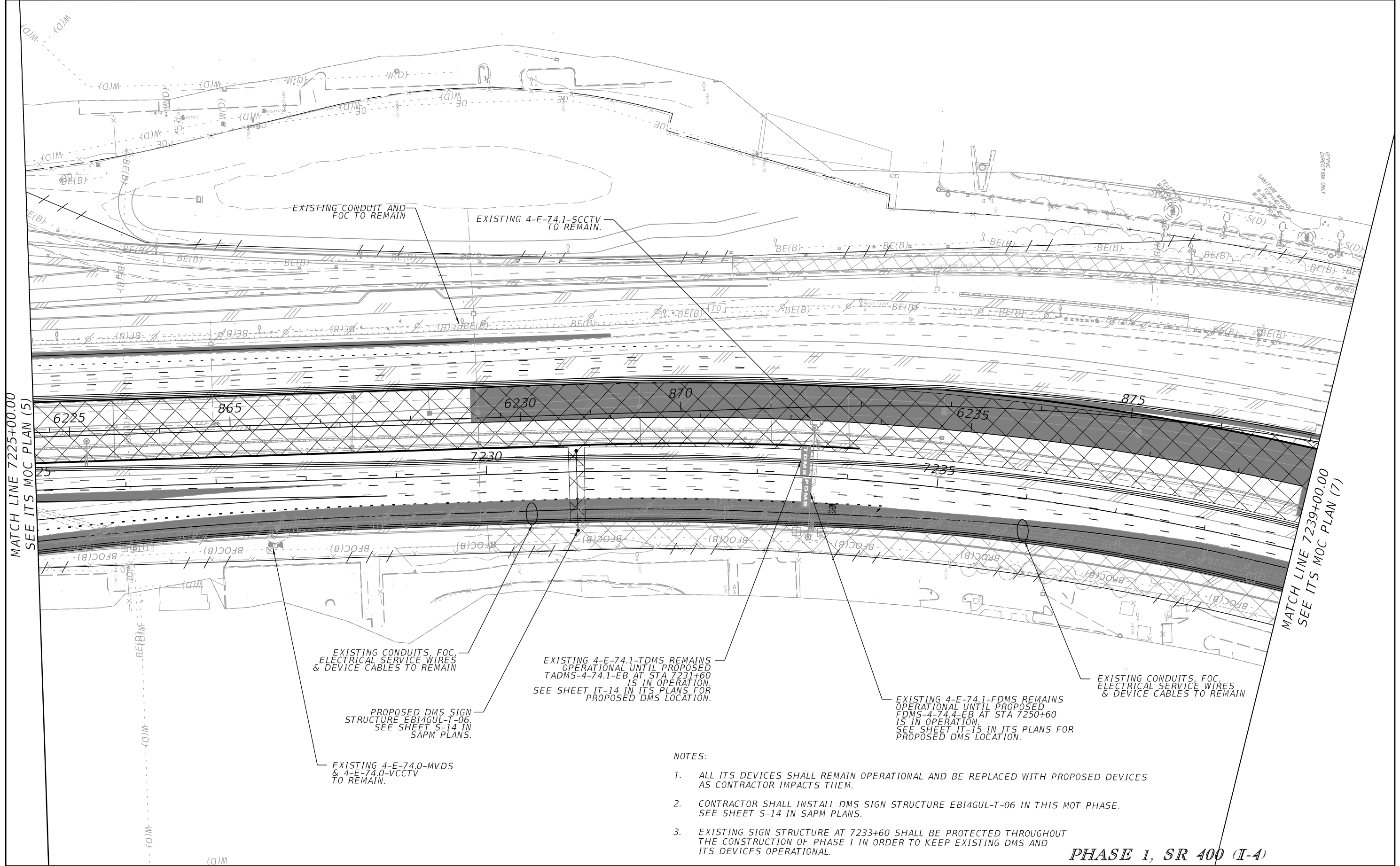
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS MOC PLAN (5)

SHEET NO.
IT-M05

MATCH LINE 7225+00.00
SEE ITS MOC PLAN (5)

MATCH LINE 7239+00.00
SEE ITS MOC PLAN (7)



PHASE 1, SR 400 (I-4)

REVISIONS			
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Engineer of Record: Ernest E. Sackey
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Orlando, FL 32801
PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS MOC PLAN (6)

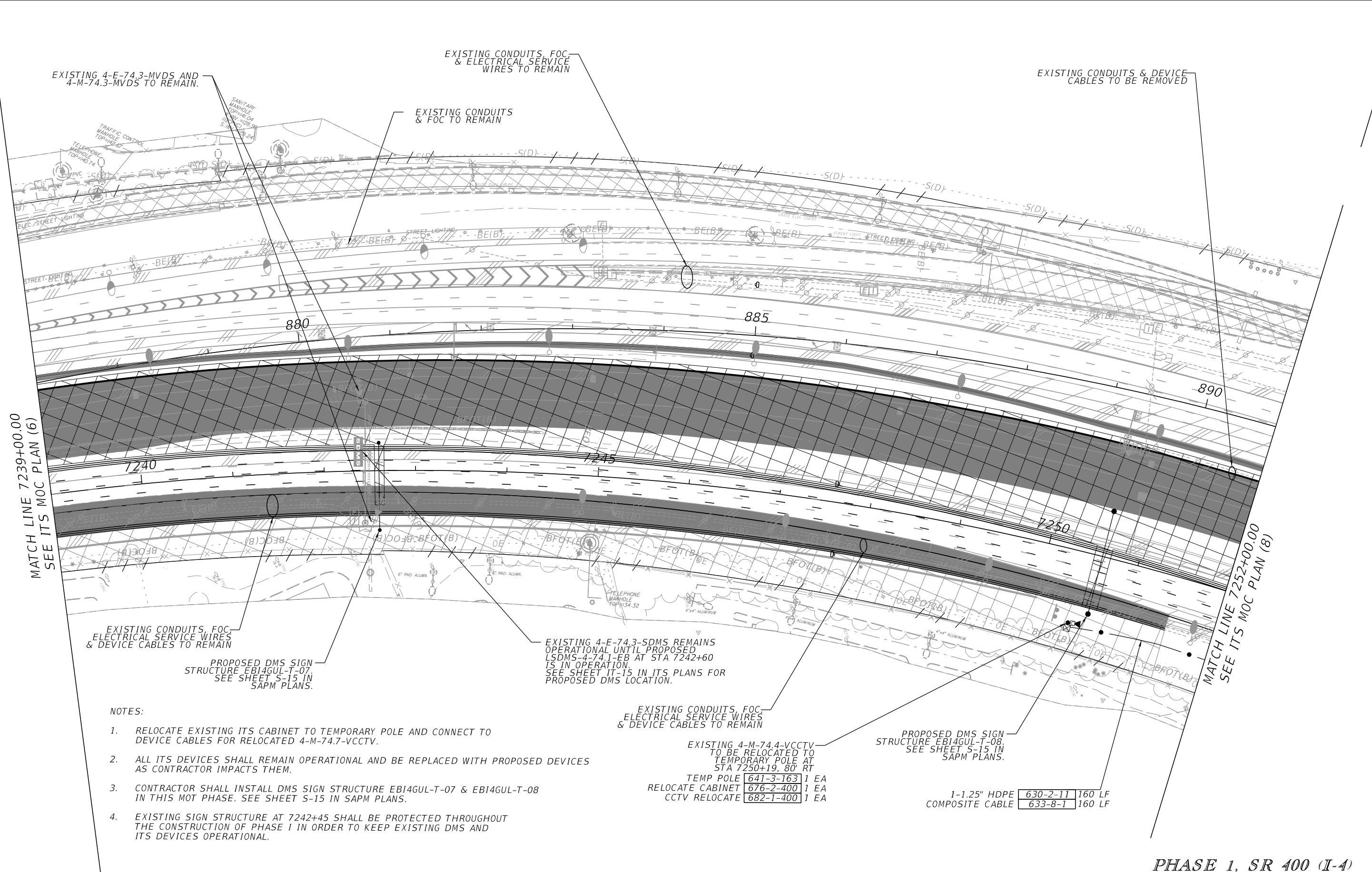
SHEET NO.
IT-M06

EXISTING CONDUITS, FOC & ELECTRICAL SERVICE WIRES TO REMAIN

EXISTING CONDUITS & DEVICE CABLES TO BE REMOVED

EXISTING CONDUITS & FOC TO REMAIN

EXISTING 4-E-74.3-MVDS AND 4-M-74.3-MVDS TO REMAIN.



MATCH LINE 7239+00.00
SEE ITS MOC PLAN (6)

MATCH LINE 7252+00.00
SEE ITS MOC PLAN (8)

EXISTING CONDUITS, FOC, ELECTRICAL SERVICE WIRES & DEVICE CABLES TO REMAIN

PROPOSED DMS SIGN STRUCTURE EB14GUL-T-07. SEE SHEET S-15 IN SAPM PLANS.

EXISTING 4-E-74.3-SDMS REMAINS OPERATIONAL UNTIL PROPOSED LSDMS-4-74.1-EB AT STA 7242+60 IS IN OPERATION. SEE SHEET IT-15 IN ITS PLANS FOR PROPOSED DMS LOCATION.

EXISTING CONDUITS, FOC, ELECTRICAL SERVICE WIRES & DEVICE CABLES TO REMAIN

EXISTING 4-M-74.4-VCCTV TO BE RELOCATED TO TEMPORARY POLE AT STA 7250+19, 80' RT
TEMP POLE 641-3-163 1 EA
RELOCATE CABINET 676-2-400 1 EA
CCTV RELOCATE 682-1-400 1 EA

PROPOSED DMS SIGN STRUCTURE EB14GUL-T-08. SEE SHEET S-15 IN SAPM PLANS.

1-1.25" HDPE 630-2-11 160 LF
COMPOSITE CABLE 633-8-1 160 LF

NOTES:

1. RELOCATE EXISTING ITS CABINET TO TEMPORARY POLE AND CONNECT TO DEVICE CABLES FOR RELOCATED 4-M-74.7-VCCTV.
2. ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED DEVICES AS CONTRACTOR IMPACTS THEM.
3. CONTRACTOR SHALL INSTALL DMS SIGN STRUCTURE EB14GUL-T-07 & EB14GUL-T-08 IN THIS MOT PHASE. SEE SHEET S-15 IN SAPM PLANS.
4. EXISTING SIGN STRUCTURE AT 7242+45 SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION OF PHASE I IN ORDER TO KEEP EXISTING DMS AND ITS DEVICES OPERATIONAL.

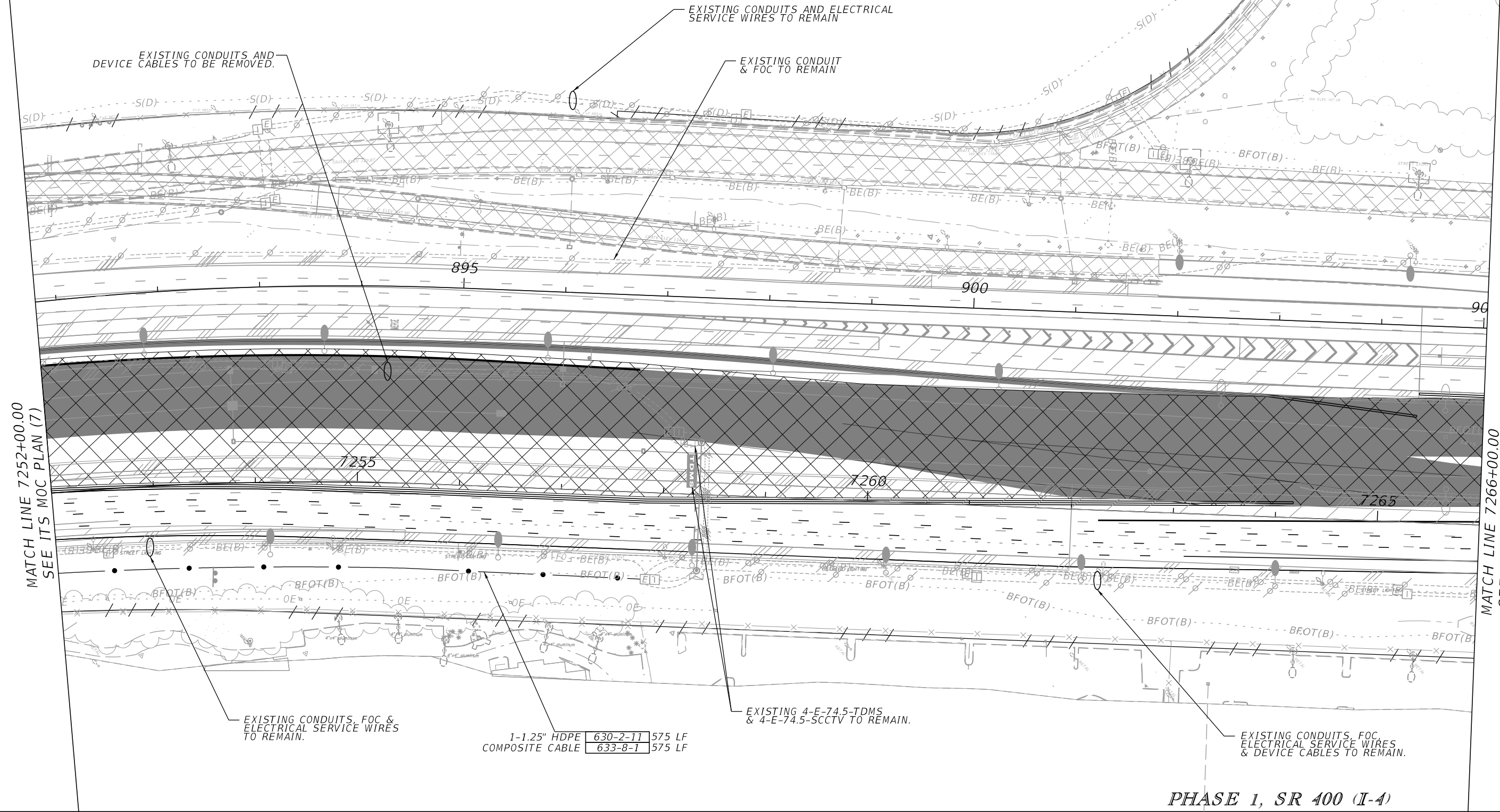
PHASE 1, SR 400 (I-4)

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ITS MOC PLAN (7)
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	
							IT-M07	

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

NOTES:

1. INTERCEPT EXISTING DEVICE CABLE CONDUITS AT EXISTING PULL BOXES.
2. CUT EXISTING DEVICE CABLE AT EXISTING ITS PULL BOX AND SPLICE TEMPORARILY TO NEW DEVICE CABLE FOR RELOCATED 4-M-74.4-VCCTV.
3. ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED DEVICES AS CONTRACTOR IMPACTS THEM.
4. EXISTING SIGN STRUCTURE AT 7258+35 SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION OF PHASE 1 IN ORDER TO KEEP EXISTING DMS AND ITS DEVICES OPERATIONAL.



PHASE 1, SR 400 (I-4)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
 P.E. License No. 71730
 Jacobs Engineering Group, Inc.
 200 S. Orange Avenue, Suite 900
 Orlando, FL 32801
 PH (407) 903-5290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

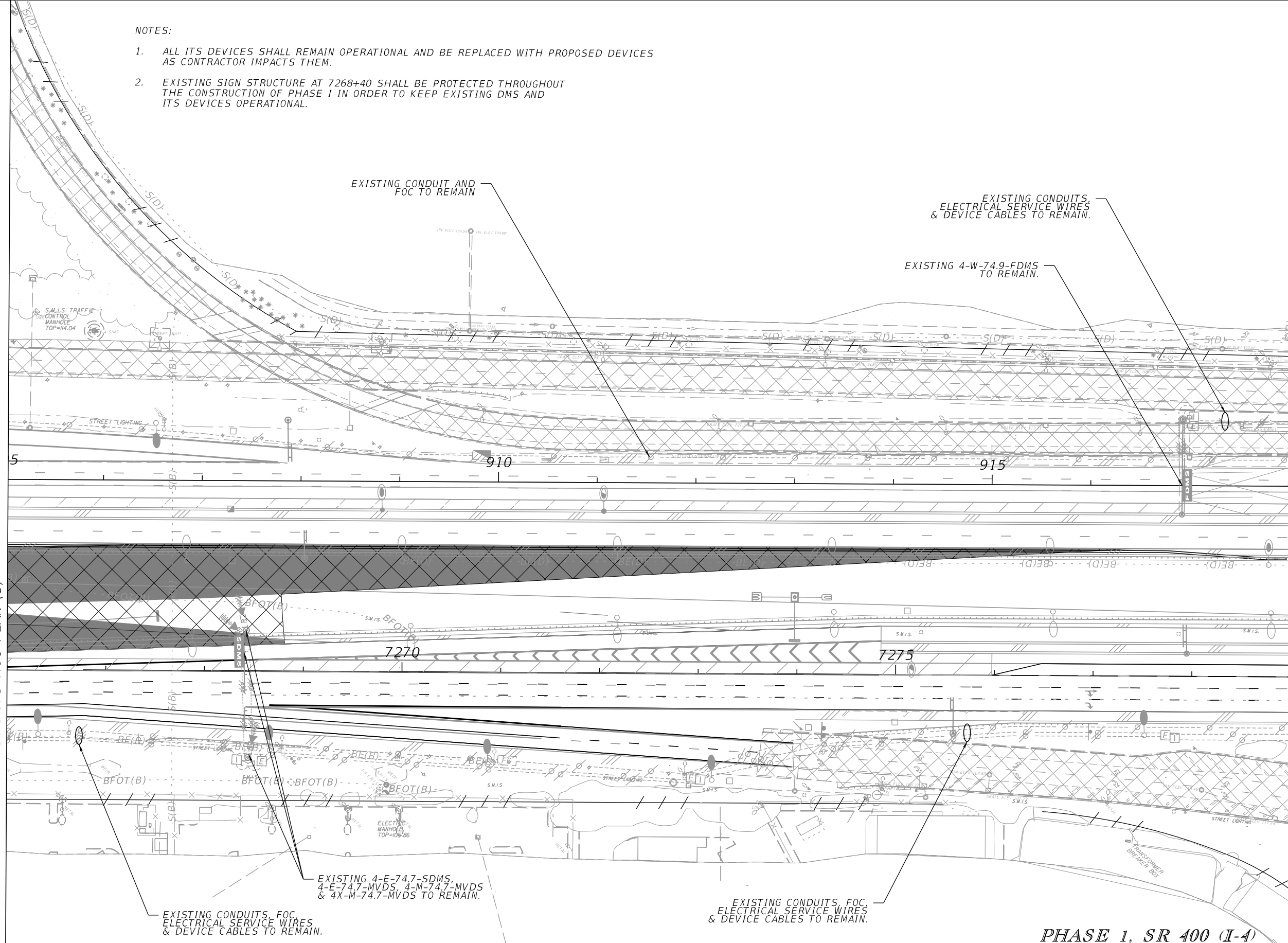
ITS MOC PLAN (8)

SHEET NO.
IT-M08

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

NOTES:

1. ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED DEVICES AS CONTRACTOR IMPACTS THEM.
2. EXISTING SIGN STRUCTURE AT 7268+40 SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION OF PHASE 1 IN ORDER TO KEEP EXISTING DMS AND ITS DEVICES OPERATIONAL.



MATCH LINE 7266+00.00
SEE ITS MOC PLAN (8)

MATCH LINE 7279+00.00
SEE ITS MOC PLAN (10)

PHASE 1, SR 400 (I-4)

REVISIONS	
DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
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Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
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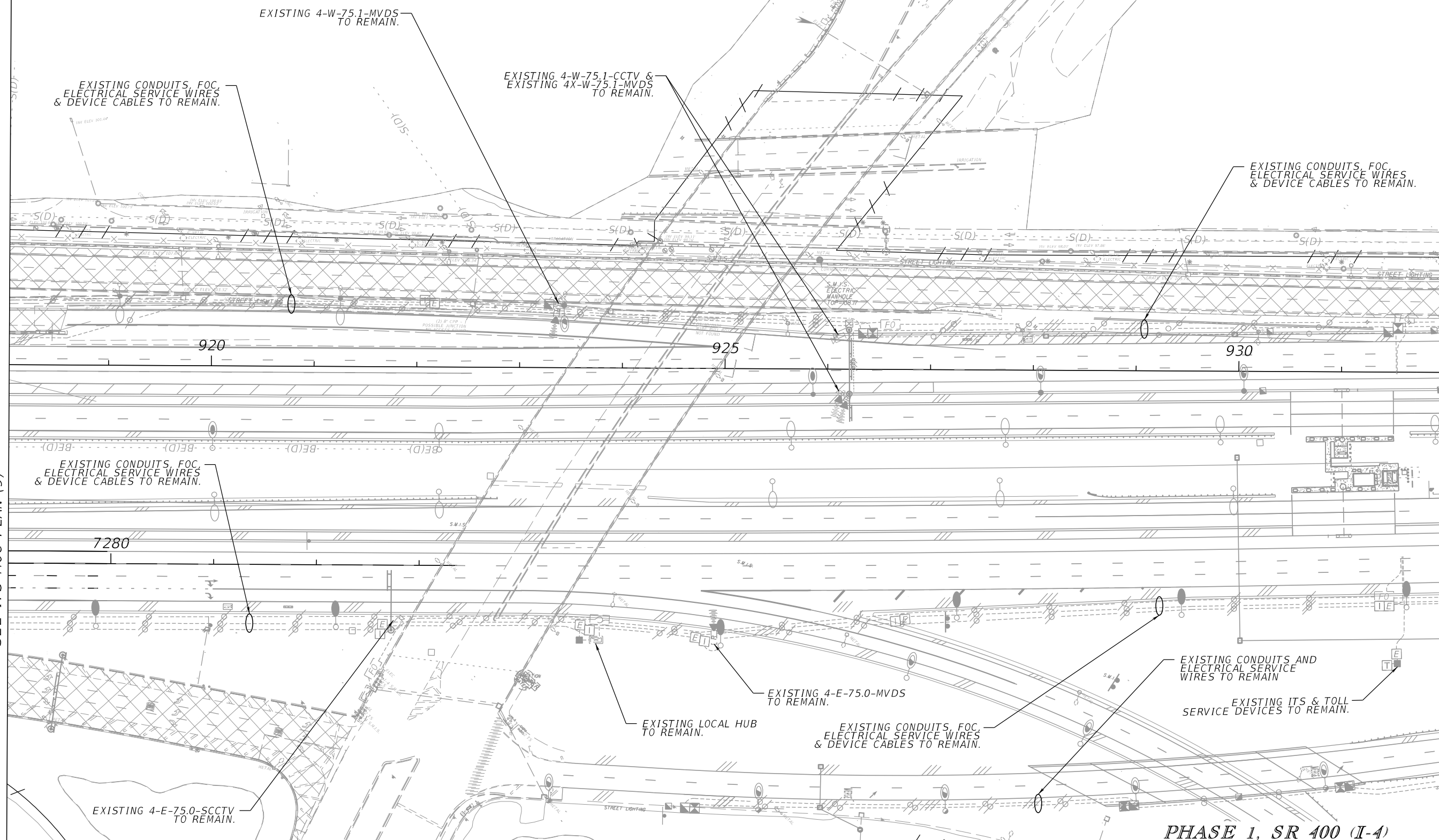
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS MOC PLAN (9)

SHEET NO.
IT-M09

NOTES:

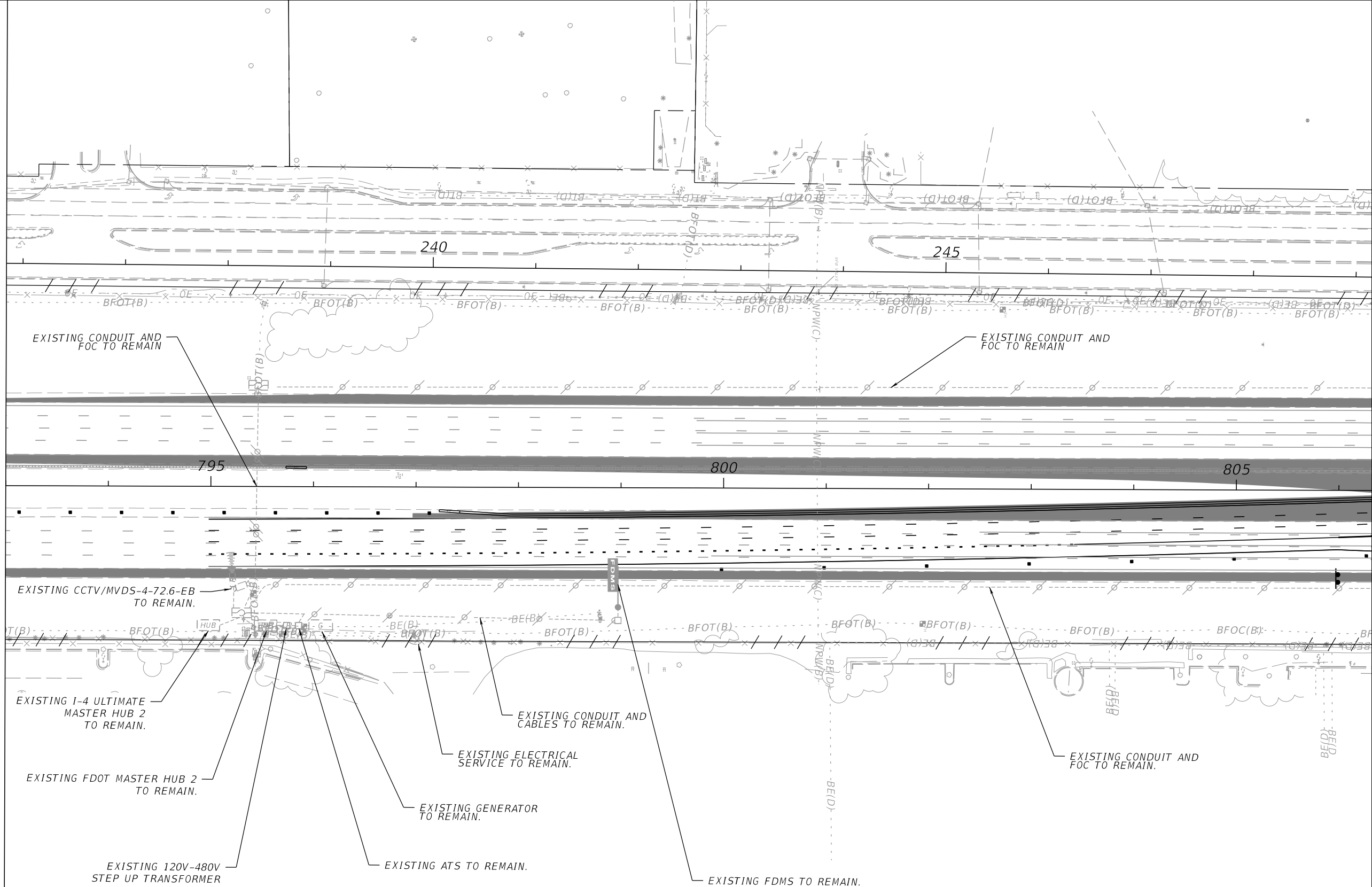
- ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED DEVICES AS CONTRACTOR IMPACTS THEM.



MATCH LINE 7279+00.00
SEE ITS MOC PLAN (9)

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ITS MOC PLAN (10) IT-M10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 400	ORANGE	444315-1-52-01		

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



MATCH LINE 806+32.46
SEE ITS MOC PLAN (12)

- NOTES:
1. ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED NEW DEVICES AS CONTRACTOR IMPACTS THEM.

PHASE 2A, SR 400 (I-4)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5290

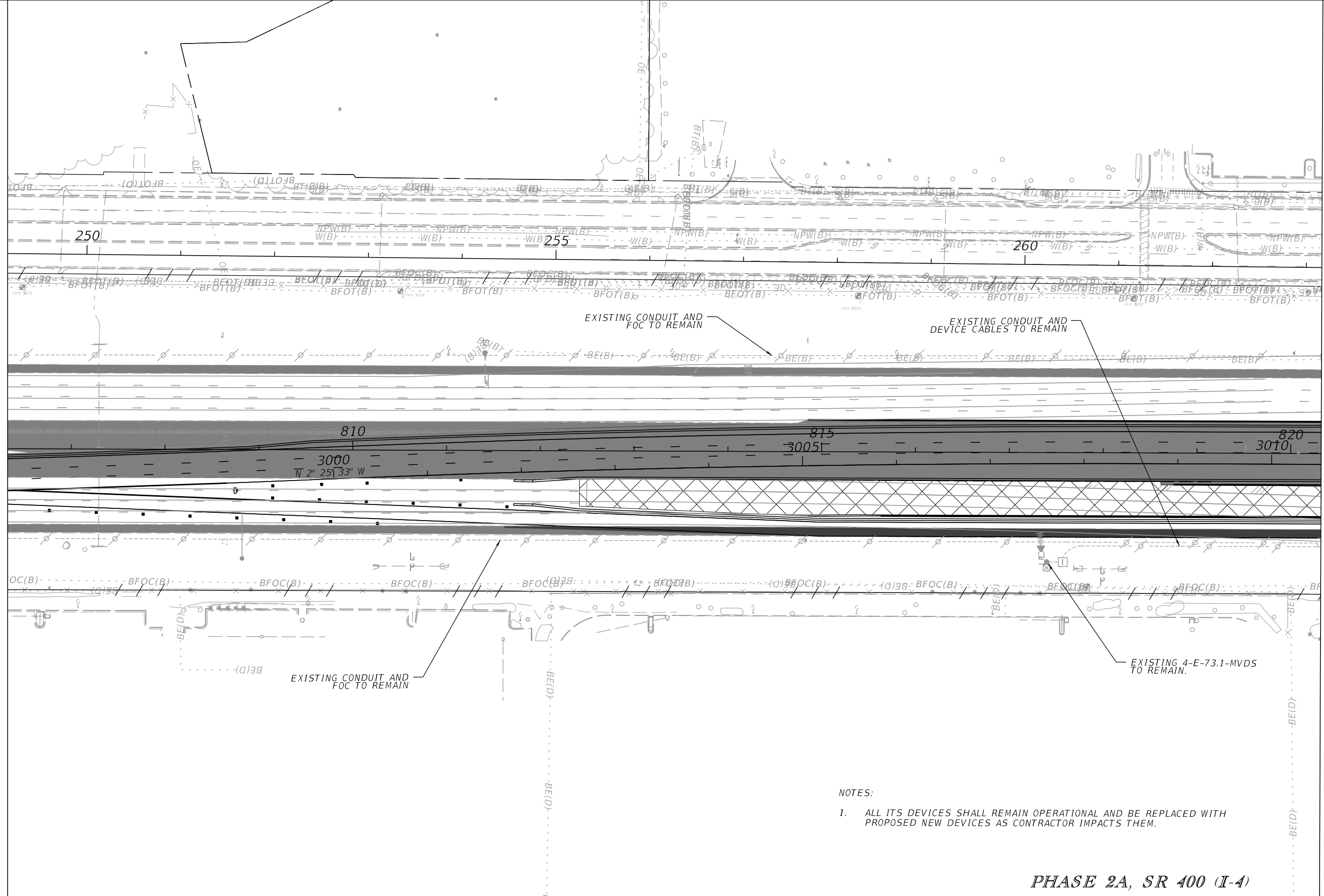
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS MOC PLAN (11)

SHEET NO.
IT-M11

MATCH LINE 806+32.46
SEE ITS MOC PLAN (11)

MATCH LINE 820+32.77
SEE ITS MOC PLAN (13)



NOTES:

1. ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED NEW DEVICES AS CONTRACTOR IMPACTS THEM.

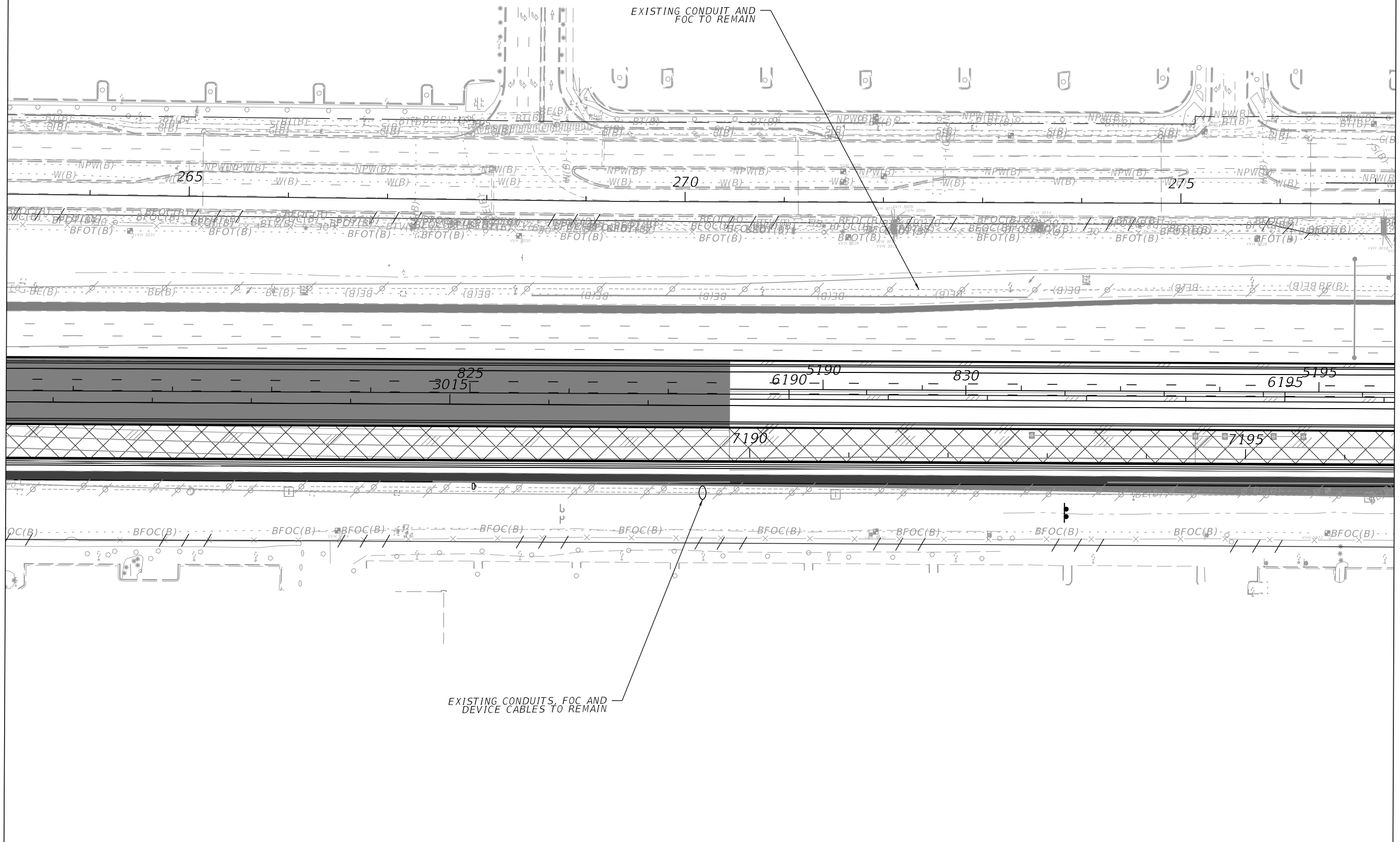
PHASE 2A, SR 400 (I-4)

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ITS MOC PLAN (12) IT-M12
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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

MATCH LINE 820+32.77
SEE ITS MOC PLAN (12)

MATCH LINE 7196+50.00
SEE ITS MOC PLAN (14)



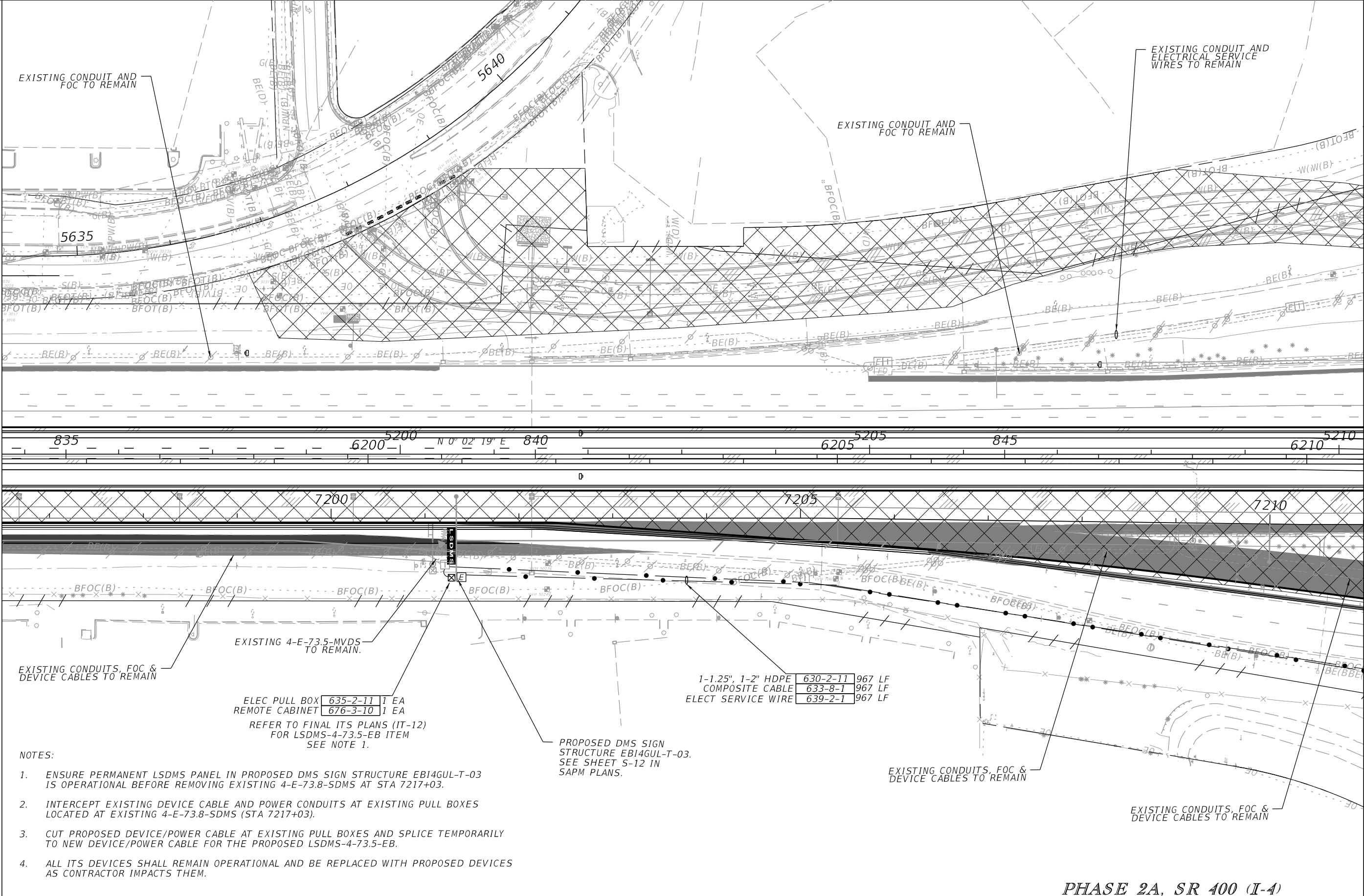
PHASE 2A, SR 400 (I-4)

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ITS MOC PLAN (13) IT-M13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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

MATCH LINE 7196+50.00
SEE ITS MOC PLAN (13)

MATCH LINE 7211+00.00
SEE ITS MOC PLAN (15)



EXISTING CONDUITS, FOC & DEVICE CABLES TO REMAIN

EXISTING 4-E-73.5-MVDS TO REMAIN.

ELEC PULL BOX 635-2-11 1 EA
REMOTE CABINET 676-3-10 1 EA

REFER TO FINAL ITS PLANS (IT-12)
FOR LSDMS-4-73.5-EB ITEM
SEE NOTE 1.

1-1.25", 1-2" HDPE 630-2-11 967 LF
COMPOSITE CABLE 633-8-1 967 LF
ELECT SERVICE WIRE 639-2-1 967 LF

PROPOSED DMS SIGN
STRUCTURE EBI4GUL-T-03.
SEE SHEET S-12 IN
SAPM PLANS.

EXISTING CONDUITS, FOC & DEVICE CABLES TO REMAIN

EXISTING CONDUITS, FOC & DEVICE CABLES TO REMAIN

- NOTES:
- ENSURE PERMANENT LSDMS PANEL IN PROPOSED DMS SIGN STRUCTURE EBI4GUL-T-03 IS OPERATIONAL BEFORE REMOVING EXISTING 4-E-73.8-SDMS AT STA 7217+03.
 - INTERCEPT EXISTING DEVICE CABLE AND POWER CONDUITS AT EXISTING PULL BOXES LOCATED AT EXISTING 4-E-73.8-SDMS (STA 7217+03).
 - CUT PROPOSED DEVICE/POWER CABLE AT EXISTING PULL BOXES AND SPLICE TEMPORARILY TO NEW DEVICE/POWER CABLE FOR THE PROPOSED LSDMS-4-73.5-EB.
 - ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED DEVICES AS CONTRACTOR IMPACTS THEM.

PHASE 2A, SR 400 (I-4)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

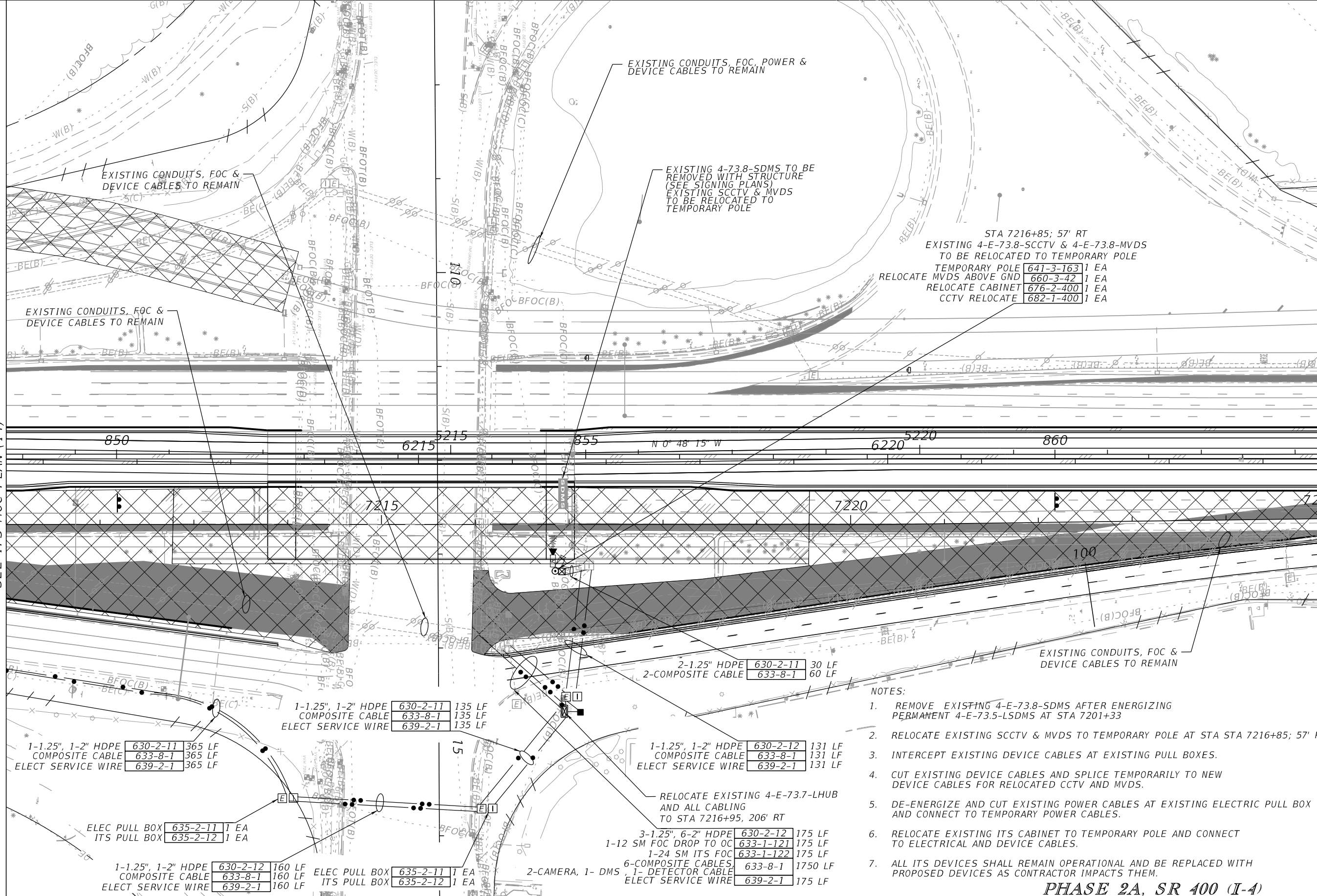
ITS MOC PLAN (14)

SHEET NO.
IT-M14

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

MATCH LINE 7211+00.00
SEE ITS MOC PLAN (14)

MATCH LINE 7225+00.00
SEE ITS MOC PLAN (16)



- NOTES:
- REMOVE EXISTING 4-E-73.8-SDMS AFTER ENERGIZING PERMANENT 4-E-73.5-LSMS AT STA 7201+33
 - RELOCATE EXISTING SCCTV & MVDS TO TEMPORARY POLE AT STA STA 7216+85; 57' RT
 - INTERCEPT EXISTING DEVICE CABLES AT EXISTING PULL BOXES.
 - CUT EXISTING DEVICE CABLES AND SPLICE TEMPORARILY TO NEW DEVICE CABLES FOR RELOCATED CCTV AND MVDS.
 - DE-ENERGIZE AND CUT EXISTING POWER CABLES AT EXISTING ELECTRIC PULL BOX AND CONNECT TO TEMPORARY POWER CABLES.
 - RELOCATE EXISTING ITS CABINET TO TEMPORARY POLE AND CONNECT TO ELECTRICAL AND DEVICE CABLES.
 - ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED DEVICES AS CONTRACTOR IMPACTS THEM.

PHASE 2A, SR 400 (I-4)

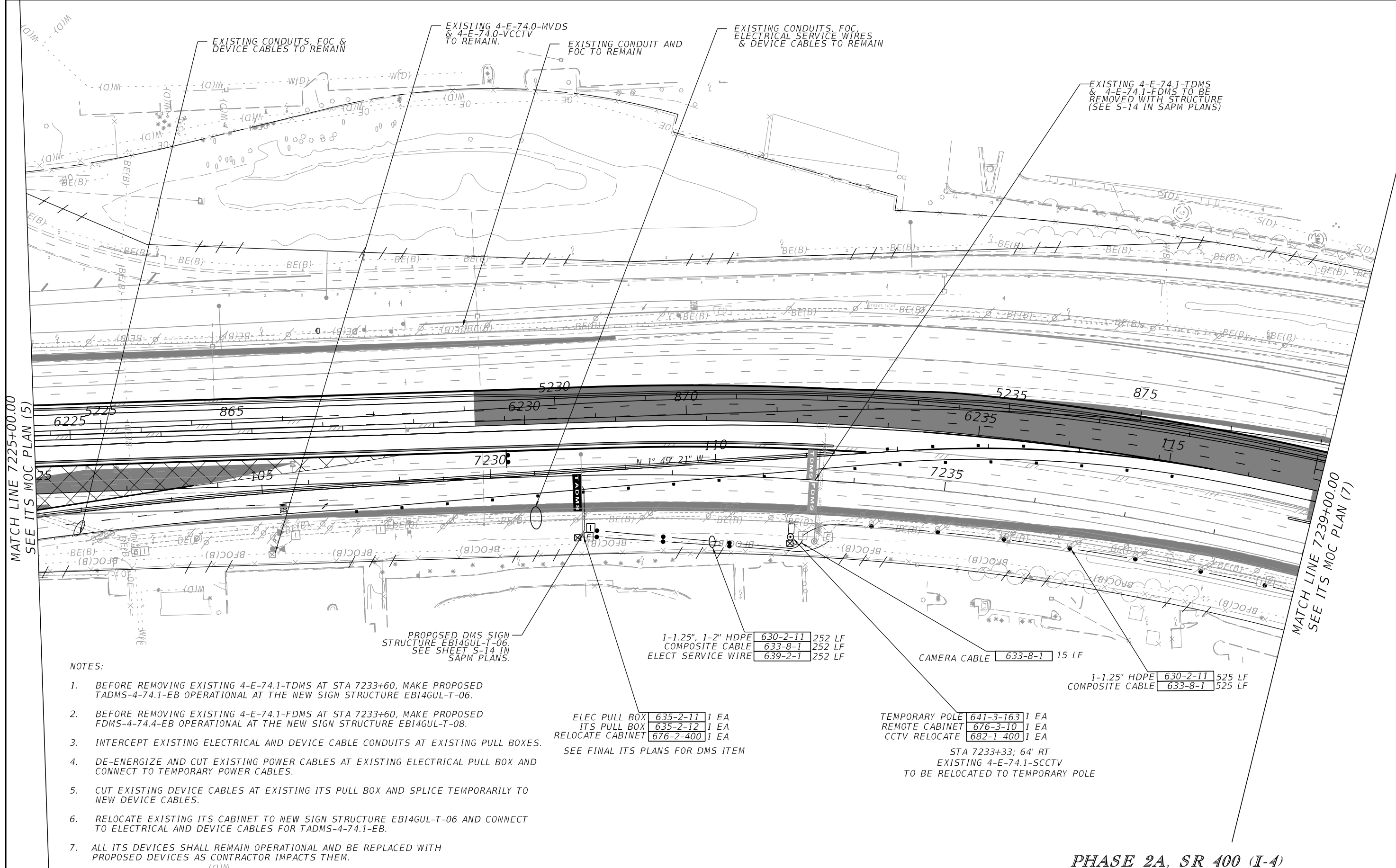
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Ernest E. Sackey
P.E. License No. 71730
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200 S. Orange Avenue, Suite 900
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS MOC PLAN (15)	
SHEET NO.	IT-M15

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



NOTES:

- BEFORE REMOVING EXISTING 4-E-74.1-TDMS AT STA 7233+60, MAKE PROPOSED TADMS-4-74.1-EB OPERATIONAL AT THE NEW SIGN STRUCTURE EB14GUL-T-06.
- BEFORE REMOVING EXISTING 4-E-74.1-FDMS AT STA 7233+60, MAKE PROPOSED FDMS-4-74.4-EB OPERATIONAL AT THE NEW SIGN STRUCTURE EB14GUL-T-08.
- INTERCEPT EXISTING ELECTRICAL AND DEVICE CABLE CONDUITS AT EXISTING PULL BOXES.
- DE-ENERGIZE AND CUT EXISTING POWER CABLES AT EXISTING ELECTRICAL PULL BOX AND CONNECT TO TEMPORARY POWER CABLES.
- CUT EXISTING DEVICE CABLES AT EXISTING ITS PULL BOX AND SPLICE TEMPORARILY TO NEW DEVICE CABLES.
- RELOCATE EXISTING ITS CABINET TO NEW SIGN STRUCTURE EB14GUL-T-06 AND CONNECT TO ELECTRICAL AND DEVICE CABLES FOR TADMS-4-74.1-EB.
- ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED DEVICES AS CONTRACTOR IMPACTS THEM.

1-1.25", 1-2" HDPE	630-2-11	252 LF
COMPOSITE CABLE	633-8-1	252 LF
ELECT SERVICE WIRE	639-2-1	252 LF

ELEC PULL BOX	635-2-11	1 EA
ITS PULL BOX	635-2-12	1 EA
RELOCATE CABINET	676-2-400	1 EA

SEE FINAL ITS PLANS FOR DMS ITEM

TEMPORARY POLE	641-3-163	1 EA
REMOTE CABINET	676-3-10	1 EA
CCTV RELOCATE	682-1-400	1 EA

STA 7233+33; 64' RT
EXISTING 4-E-74.1-SCCTV
TO BE RELOCATED TO TEMPORARY POLE

PHASE 2A, SR 400 (I-4)

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS MOC PLAN (16)	SHEET NO. IT-M16
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 400	ORANGE	444315-1-52-01		

Engineer of Record: Ernest E. Sackey
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EXISTING CONDUITS, FOC,
ELECTRICAL SERVICE WIRES
& DEVICE CABLES TO REMAIN

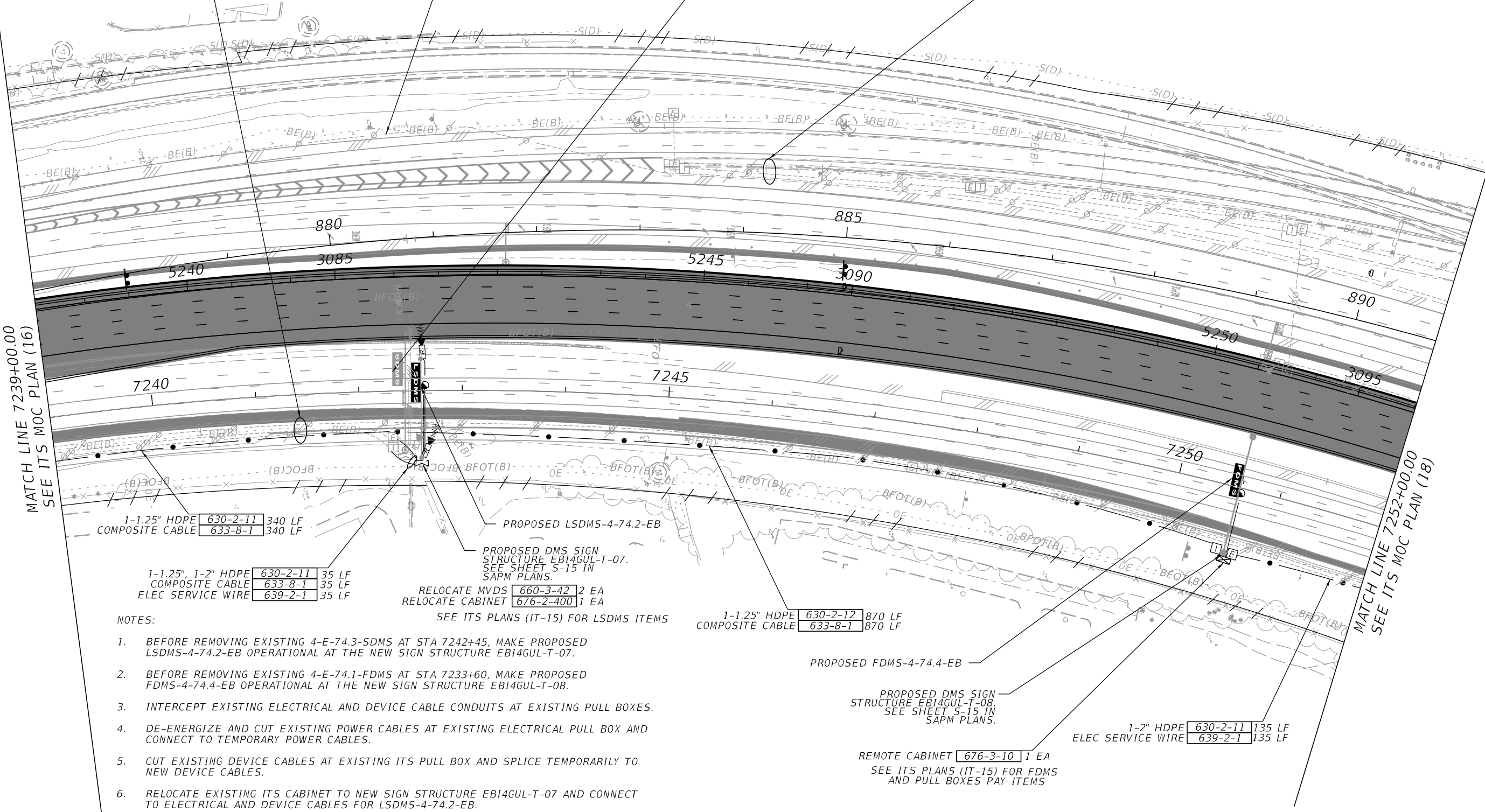
EXISTING CONDUITS
& FOC TO REMAIN

EXISTING 4-E-74.3-SDMS TO BE
REMOVED WITH STRUCTURE
(SEE SHEET S-15 IN SAPM PLANS).
EXISTING 2-MVDS AND CABINET TO BE
RELOCATED TO THE NEW SIGN
STRUCTURE EBI4GUL-T-07.

EXISTING CONDUITS, FOC,
& ELECTRICAL SERVICE
WIRES TO REMAIN

MATCH LINE 7239+00.00
SEE ITS MOC PLAN (16)

MATCH LINE 7252+00.00
SEE ITS MOC PLAN (18)



1-1.25" HDPE COMPOSITE CABLE [630-2-11] 340 LF
[633-8-1] 340 LF

1-1.25", 1-2" HDPE COMPOSITE CABLE [630-2-11] 35 LF
[633-8-1] 35 LF
ELEC SERVICE WIRE [639-2-1] 35 LF

RELOCATE MVDS [660-3-42] 2 EA
RELOCATE CABINET [676-2-400] 1 EA

1-1.25" HDPE COMPOSITE CABLE [630-2-12] 870 LF
[633-8-1] 870 LF

1-2" HDPE ELEC SERVICE WIRE [630-2-11] 135 LF
[639-2-1] 135 LF

NOTES:

- BEFORE REMOVING EXISTING 4-E-74.3-SDMS AT STA 7242+45, MAKE PROPOSED LSDMS-4-74.2-EB OPERATIONAL AT THE NEW SIGN STRUCTURE EBI4GUL-T-07.
- BEFORE REMOVING EXISTING 4-E-74.1-FDMS AT STA 7233+60, MAKE PROPOSED FDMS-4-74.4-EB OPERATIONAL AT THE NEW SIGN STRUCTURE EBI4GUL-T-08.
- INTERCEPT EXISTING ELECTRICAL AND DEVICE CABLE CONDUITS AT EXISTING PULL BOXES.
- DE-ENERGIZE AND CUT EXISTING POWER CABLES AT EXISTING ELECTRICAL PULL BOX AND CONNECT TO TEMPORARY POWER CABLES.
- CUT EXISTING DEVICE CABLES AT EXISTING ITS PULL BOX AND SPLICE TEMPORARILY TO NEW DEVICE CABLES.
- RELOCATE EXISTING ITS CABINET TO NEW SIGN STRUCTURE EBI4GUL-T-07 AND CONNECT TO ELECTRICAL AND DEVICE CABLES FOR LSDMS-4-74.2-EB.
- ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED DEVICES AS CONTRACTOR IMPACTS THEM.

SEE ITS PLANS (IT-15) FOR LSDMS ITEMS

PROPOSED DMS SIGN STRUCTURE EBI4GUL-T-08. SEE SHEET S-15 IN SAPM PLANS.

REMOTE CABINET [676-3-10] 1 EA
SEE ITS PLANS (IT-15) FOR FDMS AND PULL BOXES PAY ITEMS

PHASE 2A, SR 400 (I-4)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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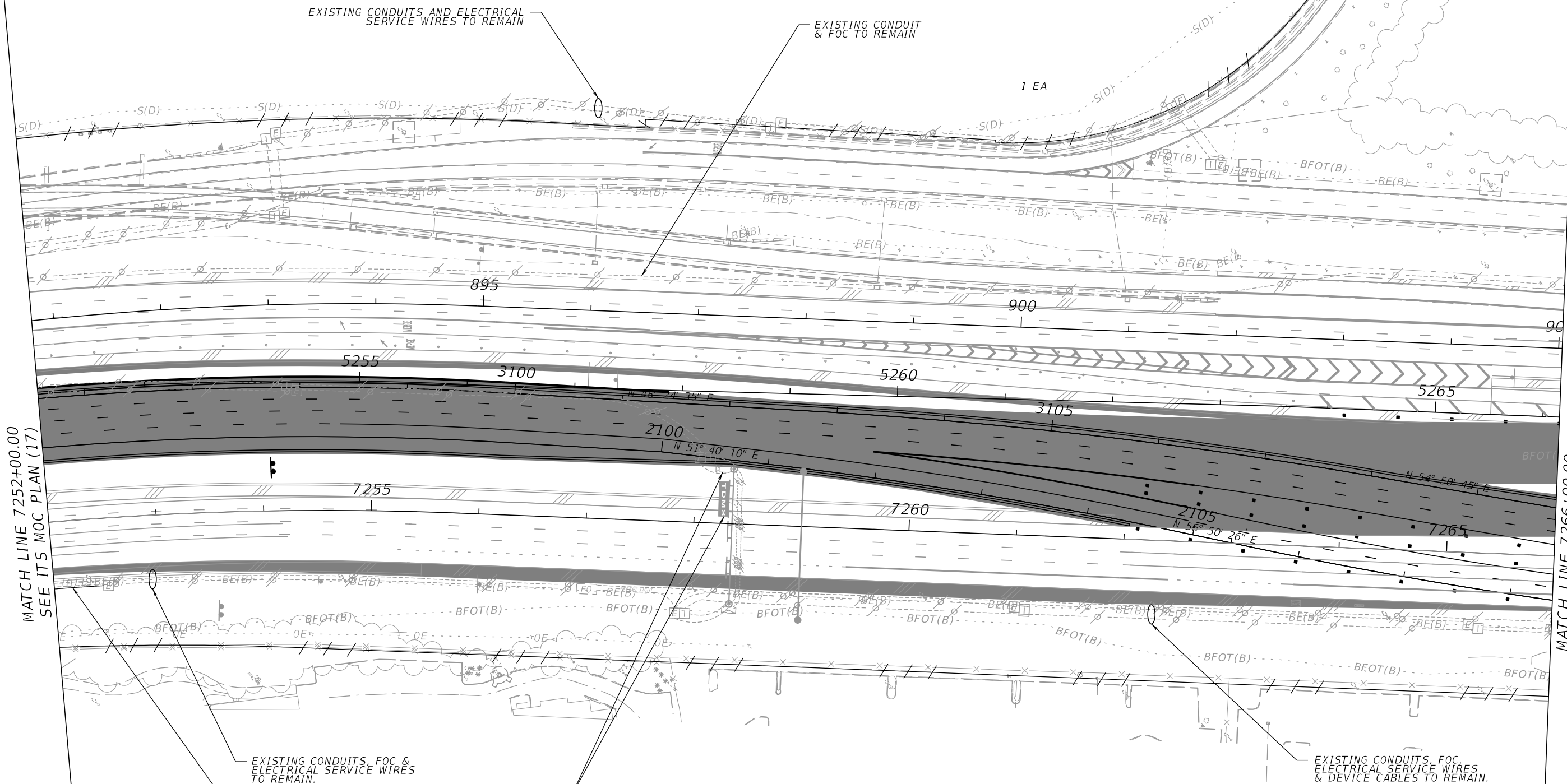
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

ITS MOC PLAN (17)	
SHEET NO. IT-M17	

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

NOTES:

1. INTERCEPT EXISTING ELECTRICAL CONDUITS AT EXISTING PULL BOX.
2. DE-ENERGIZE AND CUT EXISTING POWER CABLES AT EXISTING ELECTRICAL PULL BOX AND CONNECT TO TEMPORARY POWER CABLES.
3. ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED DEVICES AS CONTRACTOR IMPACTS THEM.
4. EXISTING SIGN STRUCTURE AT 7258+35 SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION OF PHASE 2A IN ORDER TO KEEP EXISTING DMS AND ITS DEVICES OPERATIONAL.



1-2" HDPE 630-2-11 50 LF
 ELEC SERVICE WIRE 639-2-1 50 LF

EXISTING 4-E-74.5-TDMS & 4-E-74.5-SCCTV TO REMAIN.

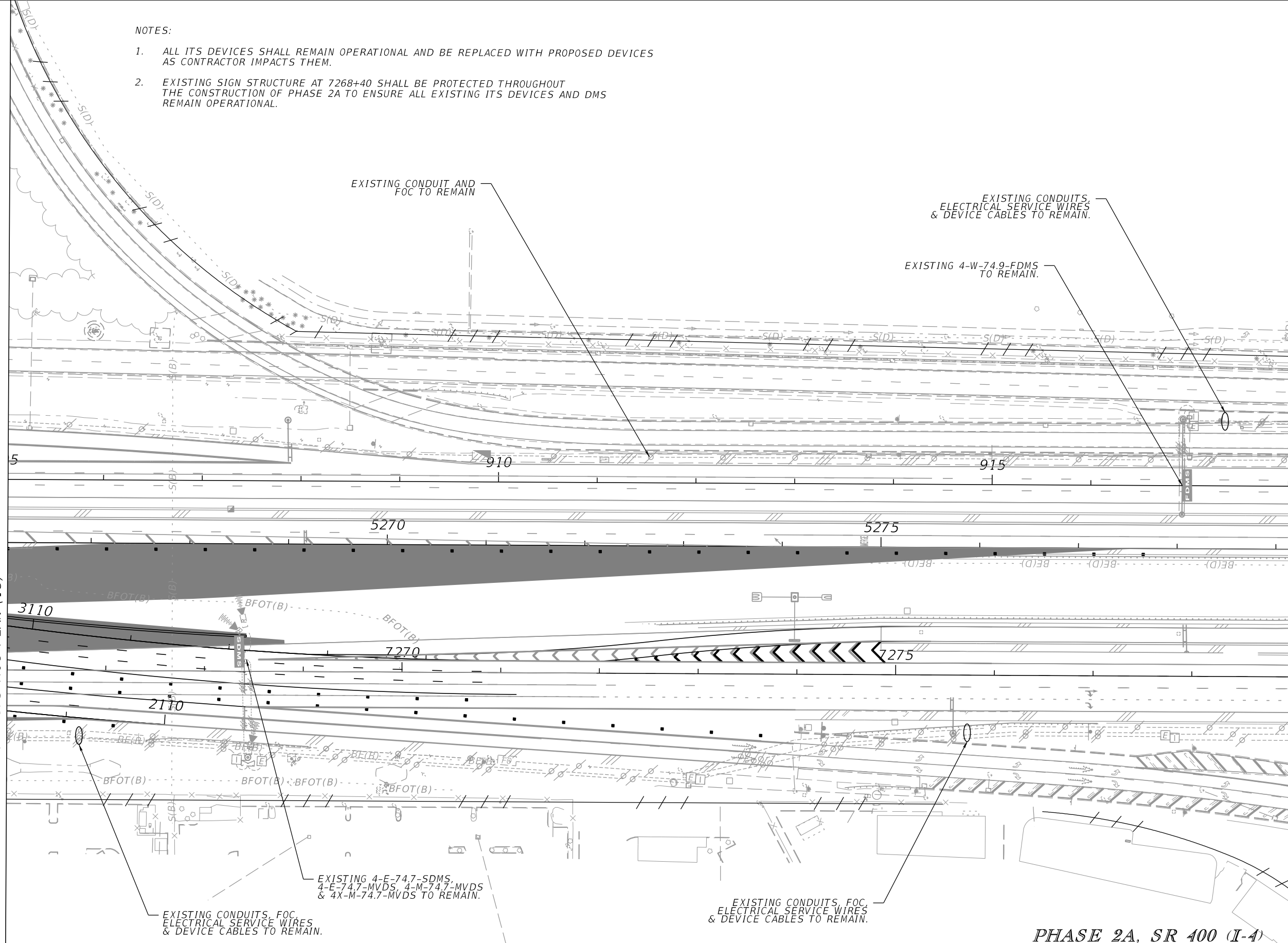
PHASE 2A, SR 400 (I-4)

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ITS MOC PLAN (18) IT-M18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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NOTES:

1. ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED DEVICES AS CONTRACTOR IMPACTS THEM.
2. EXISTING SIGN STRUCTURE AT 7268+40 SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION OF PHASE 2A TO ENSURE ALL EXISTING ITS DEVICES AND DMS REMAIN OPERATIONAL.



MATCH LINE 7266+00.00
SEE ITS MOC PLAN (18)

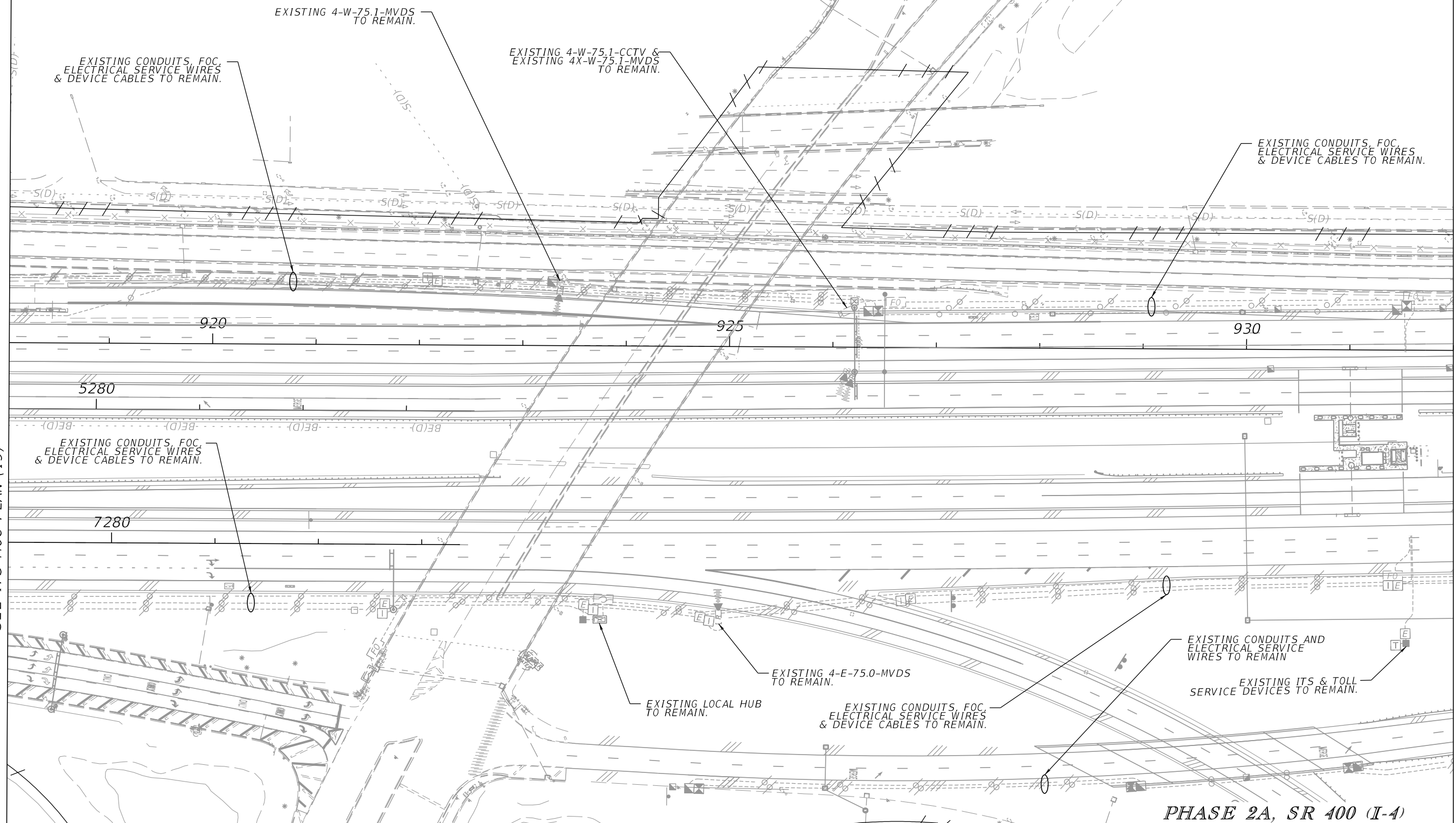
MATCH LINE 7279+00.00
SEE ITS MOC PLAN (20)

PHASE 2A, SR 400 (I-4)

REVISIONS		REVISIONS		Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ITS MOC PLAN (19) IT-M19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

NOTES:

1. ALL ITS DEVICES SHALL REMAIN OPERATIONAL AND BE REPLACED WITH PROPOSED DEVICES AS CONTRACTOR IMPACTS THEM.



MATCH LINE 7279+00.00
SEE ITS MOC PLAN (19)

PHASE 2A, SR 400 (I-4)

REVISIONS				Engineer of Record: Ernest E. Sackey P.E. License No. 71730 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5290	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ITS MOC PLAN (20) IT-M20
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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