

OSCEOLA COUNTY, FLORIDA

PUBLIC WORKS DEPARTMENT

INTELLIGENT TRAFFIC SYSTEMS PLANS

FOR

POINCIANA BLVD. WIDENING

PS #20-11503-DG

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GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2022-23 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

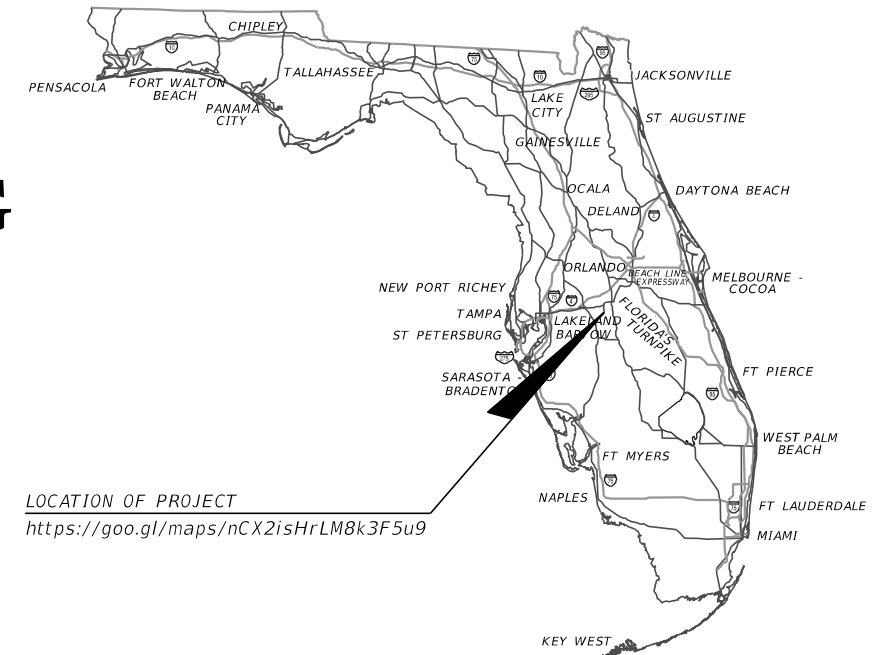
Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: NA

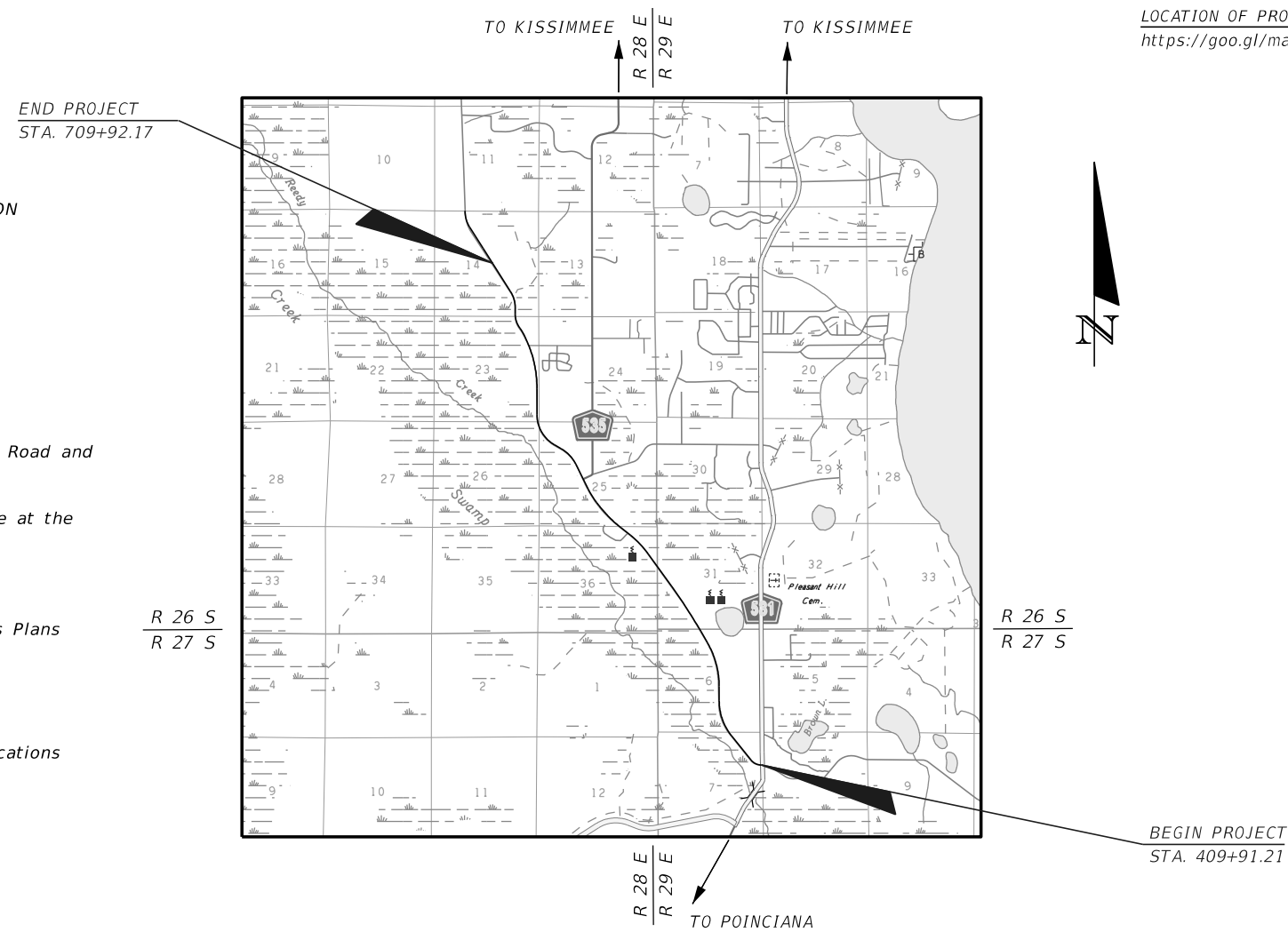
Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2022 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>



LOCATION OF PROJECT
<https://goo.gl/maps/nCX2isHrLM8k3F5u9>



INTELLIGENT TRANSPORTATION SYSTEMS PLANS

ENGINEER OF RECORD:

ERIK SPILLMANN, P.E. NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714

COUNTY PROJECT MANAGER:

STEVEN KANE, P.E.

SURVEYOR OF RECORD:

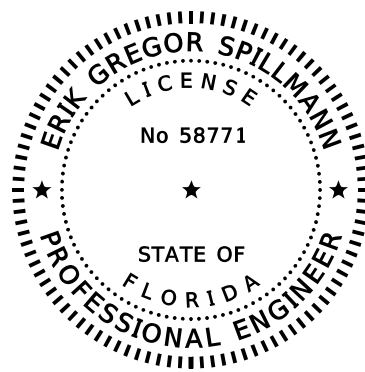
W. TURNER WALLIS, IV, P.S.M
 JOHNSTON'S SURVEYING, INC.

VERTICAL DATUM:

NAVD88

SHEET NO.

IT-01



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

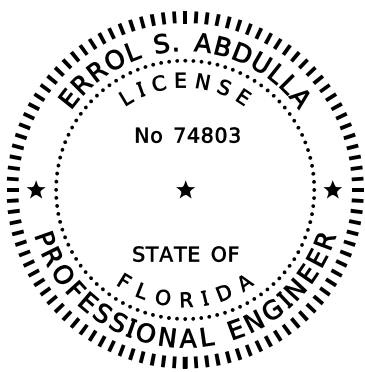
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BCC ENGINEERING, INC.
160 NORTH WESTMONTE DRIVE, SUITE 2000
ALTAMONTE SPRINGS, FL 32714
CERTIFICATION OF AUTHORIZATION No. 7184
ERIK G. SPILLMANN, P.E. No. 58771

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

ITS PLANS

SHEET NO.	SHEET DESCRIPTION
IT-01	KEY SHEET
IT-02	SIGNATURE SHEET
IT-03 TO IT-09	TABULATION OF QUANTITIES
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IT-68	DIRECTIONAL BORE DETAIL
IT-69	FIBER OPTIC SPLICE BOX DETAIL
IT-70	ELECTRIC PULL BOX DETAIL
IT-71	FIBER OPTIC PULL BOX DETAIL
IT-72	SITE LAYOUT DETAILS
IT-73	CCTV POWER AND COMMUNICATION SCHEMATIC
IT-74	DEVICE GROUNDING AND LIGHTNING PROTECTION
IT-75	CAMERA MOUNTING BRACKET DETAIL
IT-76	ELECTRICAL SERVICE DETAILS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

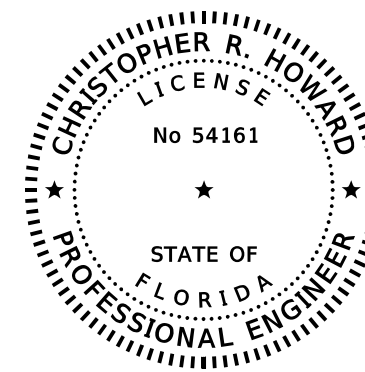
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AWK CONSULTING ENGINEERS
6457 HAZELTINE DRIVE SUITE 150
ORLANDO, FL 32822
ERROLS S. ABDULLA, P.E. NO. 74803

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

ITS PLANS

SHEET NO.	SHEET DESCRIPTION
IT-02	SIGNATURE SHEET
IT-77 TO IT-78	SOIL BORING RESULTS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

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CONSOR ENGINEERS, LLC
2511 ST JOHNS BLUFF ROAD
SUITE #103, JACKSONVILLE, FL 32246
CHRISTOPHER R. HOWARD, P.E. NO. 54161

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

ITS PLANS

SHEET NO.	SHEET DESCRIPTION
IT-02	SIGNATURE SHEET
IT-65	POLE DATA SHEET

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E NO. 58771
BCC ENGINEERING, LLC.
160 N. WESTMONTE DRIVE, SUITE 2000
ALTAMONTE SPRINGS, FLORIDA 32714



OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
1 Courthouse Square, Suite 3100
Kissimmee, Florida 34741
(407) 742-0552 Fax:(407) 742-0560

SIGNATURE SHEET

SHEET NO.


IT-02

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			ITS PLANS (1)		ITS PLANS (2)		ITS PLANS (3)		ITS PLANS (4)		ITS PLANS (5)		ITS PLANS (6)		ITS PLANS (7)		PLAN	FINAL	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										200		285			485			
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	160		22						140		150				472			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF			22						540		370				932			
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF									390		690		690		1770			
633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF			22												22			
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF									190		690		690		1570			
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA									78						78			
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA									1						1			
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA									7						7			
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA			1								1				2			
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	1										2				3			
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA									1						2			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA									1						1			
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS												1			1			
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF											175				175			
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA											1				1			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA												1			1			
641-3-163	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 63'	EA												1			1			
641-3-800	CONCRETE CCTV POLE, COMPLETE POLE REMOVAL	EA																		
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA												1			1			
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA	1											1			2			
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA			1									1			2			
684-1-5	MANAGED FIELD ETHERNET SWITCH, ADJUST / MODIFY	EA	1														1			
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA												1			1			
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA												1			1			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714



OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
 1 Courthouse Square, Suite 3100
 Kissimmee, Florida 34741
 (407) 742-0552 Fax:(407) 742-0560

TABULATION OF QUANTITIES

SHEET NO.
 IT-03


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

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			ITS PLANS (8)		ITS PLANS (9)		ITS PLANS (10)		ITS PLANS (11)		ITS PLANS (12)		ITS PLANS (13)		ITS PLANS (14)		PLAN	FINAL	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	LF																		
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	795		715		795		930		700		800		700		5435			
633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF																		
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	695		715		695		730		700		700		700		4935			
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA							12								12			
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA							1								1			
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA							2								2			
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA																		
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA																		
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA																		
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA							1								1			
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA																		
641-3-163	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 63'	EA																		
641-3-800	CONCRETE CCTV POLE, COMPLETE POLE REMOVAL	EA																		
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA																		
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA																		
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA																		
684-1-5	MANAGED FIELD ETHERNET SWITCH, ADJUST / MODIFY	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																		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714



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 1 Courthouse Square, Suite 3100
 Kissimmee, Florida 34741
 (407) 742-0552 Fax:(407) 742-0560

TABULATION OF QUANTITIES

SHEET NO.
 IT-04


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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			ITS PLANS (15)		ITS PLANS (16)		ITS PLANS (17)		ITS PLANS (18)		ITS PLANS (19)		ITS PLANS (20)		ITS PLANS (21)		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													34		34			
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF													180		180			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF													127		127			
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	800		710		700		800		705		810		700		5225			
633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF																		
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	700		710		700		700		705		710		700		4925			
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA																		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA													1		1			
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA													1		1			
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA													2		2			
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA													1		1			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA																		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF													197		197			
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA													1		1			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA																		
641-3-163	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 63'	EA													1		1			
641-3-800	CONCRETE CCTV POLE, COMPLETE POLE REMOVAL	EA																		
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA													1		1			
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA													1		1			
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA													1		1			
684-1-5	MANAGED FIELD ETHERNET SWITCH, ADJUST / MODIFY	EA																		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA													1		1			
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA													1		1			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714



OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
 1 Courthouse Square, Suite 3100
 Kissimmee, Florida 34741
 (407) 742-0552 Fax:(407) 742-0560

TABULATION OF QUANTITIES

SHEET NO.
 IT-05

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			ITS PLANS (22)		ITS PLANS (23)		ITS PLANS (24)		ITS PLANS (25)		ITS PLANS (26)		ITS PLANS (27)		ITS PLANS (28)		PLAN	FINAL	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	845		15									20				880		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF			135													135		
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	700		215					155			405					1475		
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	700		885		695		785	700			915		835			5515		
633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF																		
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	700		685		695		685	700			715		735			4915		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA			12								12					24		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA			1								1					2		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA			2								2					4		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA								1								1		
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	1							1			2					4		
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA			1					1			1					3		
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA			1								1					2		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1															1		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	165		135													300		
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA	1															1		
641-3-163	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 63'	EA																		
641-3-800	CONCRETE CCTV POLE, COMPLETE POLE REMOVAL	EA											1					1		
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA																		
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA												1				1		
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA								1								1		
684-1-5	MANAGED FIELD ETHERNET SWITCH, ADJUST / MODIFY	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								1								1		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714



OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
 1 Courthouse Square, Suite 3100
 Kissimmee, Florida 34741
 (407) 742-0552 Fax:(407) 742-0560

TABULATION OF QUANTITIES

SHEET NO.
 IT-06


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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			ITS PLANS (29)		ITS PLANS (30)		ITS PLANS (31)		ITS PLANS (32)		ITS PLANS (33)		ITS PLANS (34)		ITS PLANS (35)		PLAN	FINAL	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			335		550										885			
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF			135												135			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF			670		650										1320			
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	735		625												1360			
633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF																		
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	735		425												1160			
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA			78												78			
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA			1												1			
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA			7		1										8			
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA					1										1			
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA			2		1										3			
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA			1		1										2			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA			1												1			
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS			1												1			
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF			490		550										1040			
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA					1										1			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA			1												1			
641-3-163	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 63'	EA					1										1			
641-3-800	CONCRETE CCTV POLE, COMPLETE POLE REMOVAL	EA																		
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA					1										1			
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA					1										1			
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA					1										1			
684-1-5	MANAGED FIELD ETHERNET SWITCH, ADJUST / MODIFY	EA																		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA					1										1			
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA					1										1			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714



OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
 1 Courthouse Square, Suite 3100
 Kissimmee, Florida 34741
 (407) 742-0552 Fax:(407) 742-0560

TABULATION OF QUANTITIES

SHEET NO.
 IT-07

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

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			ITS PLANS (36)		ITS PLANS (37)		ITS PLANS (38)		ITS PLANS (39)		ITS PLANS (40)		ITS PLANS (41)		ITS PLANS (42)		PLAN	FINAL	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					10										10			
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF					150										150			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF					360										360			
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF																		
633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF																		
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA					12										12			
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA					1										1			
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA					3										3			
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA					1										1			
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA					1										1			
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA					1										1			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA					1										1			
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF					160										160			
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA					1										1			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA																		
641-3-163	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 63'	EA					1										1			
641-3-800	CONCRETE CCTV POLE, COMPLETE POLE REMOVAL	EA					1										1			
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA					1										1			
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA					1										1			
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA					1										1			
684-1-5	MANAGED FIELD ETHERNET SWITCH, ADJUST / MODIFY	EA																		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA					1										1			
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA					1										1			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714



OSCEOLA COUNTY
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TABULATION OF QUANTITIES

SHEET NO.
 IT-08


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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			ITS PLANS (43)		ITS PLANS (44)		ITS PLANS (45)										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																	2294	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF																	1072	
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF																	4214	
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF																	19305	
633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF																	22	
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF																	17505	
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																	204	
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA																	6	
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA																	25	
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA																	6	
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA																	13	
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA																	9	
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA																	6	
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																	3	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																	1872	
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																	4	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA																	3	
641-3-163	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 63'	EA																	4	
641-3-800	CONCRETE CCTV POLE, COMPLETE POLE REMOVAL	EA																	2	
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA																	4	
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA																	6	
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA																	6	
684-1-5	MANAGED FIELD ETHERNET SWITCH, ADJUST / MODIFY	EA																	1	
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA																	4	
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA																	5	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714



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TABULATION OF QUANTITIES

SHEET NO.
 IT-09

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 ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OF THE PROGRESSION OF ANY WORK SPECIFIED IN THESE PLANS. NOTIFY THE ENGINEER IMMEDIATELY AND PRIOR TO ANY FURTHER WORK ACTIVITY.
2. ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT LEGIBLE, WEATHER PROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT. THE COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE FIBER OPTIC CABLE AND ITS DEVICES.
3. PRIOR TO ANY EQUIPMENT ORDER, SUBMIT FOR REVIEW AND APPROVAL THE EQUIPMENT SPECIFICATIONS OF DESIGN AND SHOP DRAWINGS, INCLUDING PLAN ATTACHMENTS FOR ALL MATERIAL PROPOSED FOR THIS PROJECT.
4. CONTRACTOR SHALL NOTIFY OSCEOLA COUNTY TMC OF ALL SPLICING ACTIVITIES OCCURRING WITHIN THE PROJECT LIMITS, AND DURATION OF THOSE SPLICING ACTIVITIES WITHIN 24 HOURS OF SPLICING ANY FOC.
5. CONTRACTOR SHALL HAND DIG FIRST 4 FEET OF ANY FOUNDATION LOCATION PRIOR TO OPERATING A MECHANIZED AUGER.
6. POLE SHALL BE FIELD STAKED AT LEAST ONE WEEK PRIOR TO ANY INSTALLATION WORK TO ENSURE FOUNDATION COORDINATES MAINTAIN REQUIRED MINIMUM LATERAL OFFSET CALLED OUT IN PLANS. FOUNDATION LOCATIONS ARE CLEAR OF UTILITIES UNLESS NOTED HEREIN. SHOULD CONFLICT ARISE, CONTRACTOR SHALL NOTIFY ENGINEER TO RESOLVE.
7. THE CONTRACTOR SHALL COORDINATE WITH OSCEOLA COUNTY'S MAINTENANCE CONTRACTOR FOR PORT ASSIGNMENT ON THE LAYER THREE ROUTER.

CONDUIT:

1. CONDUIT LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. CONDUIT SHALL BE PLACED WITHIN THE RIGHT-OF-WAY BUT CAN BE ADJUSTED TO FIT AROUND THE EXISTING AND PROPOSED UTILITIES. ANY DEVIATION FROM THE PLANS SHALL BE RECORDED IN THE AS-BUILT PLANS.
2. CONDUIT RUN SHALL NOT EXCEED 270 DEGREE OF BENDS BETWEEN PULL BOXES.
3. ALL HDPE CONDUIT CONNECTIONS SHALL BE JOINED WITH A MECHANICAL COUPLE OR APPROVED EQUAL.
4. MINIMUM REQUIRED CONDUIT BURY DEPTHS SHALL BE MAINTAINED, WHERE CONFLICTS OCCUR WITH DRAINAGE OR OTHER UTILITIES PER THESE PLANS.
5. ALL CONDUIT TRENCHES SHALL BE BACK FILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF THE WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. DO NOT OPEN ANY AREA THAT CAN NOT BE BACK FILLED IN THE SAME DAY/NIGHT OPERATION.
6. THE PLANS SHOW THE GENERAL ROUTE AND LOCATION OF CONDUIT AND EQUIPMENT RELATIVE TO MAJOR PHYSICAL FEATURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL ABOVEGROUND AND UNDERGROUND CONFLICTS IN ADVANCE OF THE PLACEMENT OF ANY CONDUIT OR OTHER FACILITIES. THE CONTRACTOR SHALL FIELD MARK THE PROPOSED ALIGNMENT FOR REVIEW AND CONCURRENCE BY THE ENGINEER PRIOR TO TRENCHING AND/OR PLACEMENT.
7. BRACKETS AND SPACERS WHICH ARE REQUIRED TO OFFSET THE RIGID METAL CONDUIT FROM THE MOUNTING SHALL BE SIMILAR MATERIALS TO PREVENT CATHODIC REACTION.
8. TERMINATE ALL SPARE CONDUITS IN A PULL BOX OR CABINET AND CAP AND SEAL ENDS.
9. WHERE CONDUIT IS CALLED OUT TO BE INTERCEPTED, THE CONDUIT SHALL BE REDIRECTED AND TIED INTO THE PROPOSED CONDUIT.

PULL BOXES:


1. THE STACKING OF PULL BOXES IS NOT ALLOWED.
2. THE RELOCATION OF PULL BOXES IS NOT ALLOWED.

CABLING NOTES:

1. ZIP TIES ARE NOT ALLOWED ON ANY COMMUNICATION CABLING. IF CABLES NEED TO BE SECURED OUTSIDE THE CABLE MANAGEMENT EQUIPMENT THEN VELCRO IS ACCEPTABLE FOR THIS PURPOSE.
2. FIBER CABLING WILL NOT BE COILED INSIDE THE CABINET. FIBER CABLE SLACK SHALL BE COILED IN THE PULL BOX OR SPLICE VAULT NEXT TO THE CABINET.
3. POWER CABLES GREATER THAN 48 VOLTS AND COMMUNICATION CABLE WILL NOT OCCUPY THE SAME CABLE MANAGEMENT RACEWAY.
4. STRANDED WIRES THAT HAVE THE INSULATION STRIPPED IN ORDER ACCESS THE CONDUCTIVE MATERIAL WILL BE TINNED OR HAVE A TERMINAL CRIMPED ON THE END.
5. MAINTAIN EXISTING FIBER INFRASTRUCTURE UNTIL NEW SYSTEM IS READY TO BE INTEGRATED. EXISTING 72 SM SHALL NOT BE REMOVED PRIOR TO INSTALLING NEW 72 SM FIBER.

PAY ITEM:

1. 639-1-122: SHALL INCLUDE ANY NECESSARY CONNECTION FEE'S FROM THE ELECTRICAL UTILITY OWNERS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL BILLINGS FOR ANY PROPOSED SERVICES UNTIL THE PROJECT IS FULLY ACCEPTED BY OSCEOLA COUNTY.
2. 633-3-15: CONTRACTOR SHALL FURNISH A 12 SM FOC PATCH PANEL, CORNING CCS WITH CONNECTOR PORT, OR APPROVED EQUAL (PER PLANS). FIBER PATCH PANELS SHALL INCLUDE 5M COLOR CODED FACTORY TERMINATED PIGTAILS, FIBER JUMPERS, SPLICES, AND SPLICE TRAYS. PATCH PANEL SHALL BE DELIVERED TO OSCEOLA COUNTY AND SHALL COORDINATE THE DELIVERY WITH LINDSEY GIOVINAZZO, TMC SUPERVISOR AT 407-742-9201.
3. 641-3-163: SHALL INCLUDE THE COST OF ANY RESTORATION TO THE SURROUNDING AREAS DISTURBED BY THE INSTALLATION OF THE PROPOSED STRUCTURES AND FOUNDATIONS.
4. 682-1-113: CONTRACTOR SHALL FURNISH AND INSTALL A TKH SIQURA PD910 WITH A POWER SUPPLY OR APPROVED EQUAL AND ALL ANCILLARY EQUIPMENT FOR A COMPLETE INSTALLATION (POWER SUPPLY, SURGE, AND MOUNTING HARDWARE). ETHERNET CCTV CABLE AND 1-14 AWG, 3 CONDUCTOR POWER CCTV CABLE IS INCIDENTAL TO PAY ITEM.
5. 684-1-1: CONTRACTOR SHALL FURNISH AND INSTALL AN ITS EXPRESS 8012-24 V3. ALL NECESSARY PATCH CHORDS TO TERMINATE CABINET EQUIPMENT TO EDGE SWITCH, PROGRAMMING SWITCHES AND EQUIPMENT WITH IP ADDRESSES AND CONFIGURATION SETTINGS PROVIDED BY OSCEOLA COUNTY SHALL BE INCLUDED UNDER THIS PAY ITEM.

REVISIONS				ERIK SPILLMANN, P.E NO. 58771 BCC ENGINEERING, LLC. 160 N. WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714	 OSCEOLA COUNTY TRANSPORTATION AND TRANSIT 1 Courthouse Square, Suite 3100 Kissimmee, Florida 34741 (407) 742-0552 Fax:(407) 742-0560	GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				IT-10

UTILITY CONTACTS

UTILITIES OWNER:

BRIGHTHOUSE (CHARTER/SPECTRUM)
 CENTURYLINK (EMBARQ)
 DUKE ENERGY DISTRIBUTION
 DUKE ENERGY FIBER
 DUKE ENERGY TRANSMISSION
 KISSIMMEE UTILITY AUTHORITY
 OSCEOLA COUNTY UTILITIES
 OUC LIGHTING
 SPRINT
 TECO PEOPLES GAS
 TOHO WATER AUTHORITY
 TMC (OSCEOLA COUNTY)
 ZAYO GROUP

UTILITIES CONTACT:

MARVIN USRY
 ROBERT GODEK
 ROBB BROWN
 MARK HURST
 ARIC ROGERS
 FELIX ESCOBAR
 LINDSEY GIOVINAZZO
 ROBERT SCHEUERLE
 JON BAKER
 SHAWN WINSOR
 ROBERT PELHAM
 LINDSEY GIOVINAZZO
 TESS BENTAYOU

UTILITIES PHONE:










407-532-8509
 407-830-3421
 352-459-4671
 727-820-5208
 813-909-1245
 407-933-7777 EXT. 6600
 407-742-9201
 407-221-8597
 321-280-9596
 407-420-6663
 407-944-5132
 407-742-9201
 813-363-6797


UTILITIES EMAIL ADDRESS:

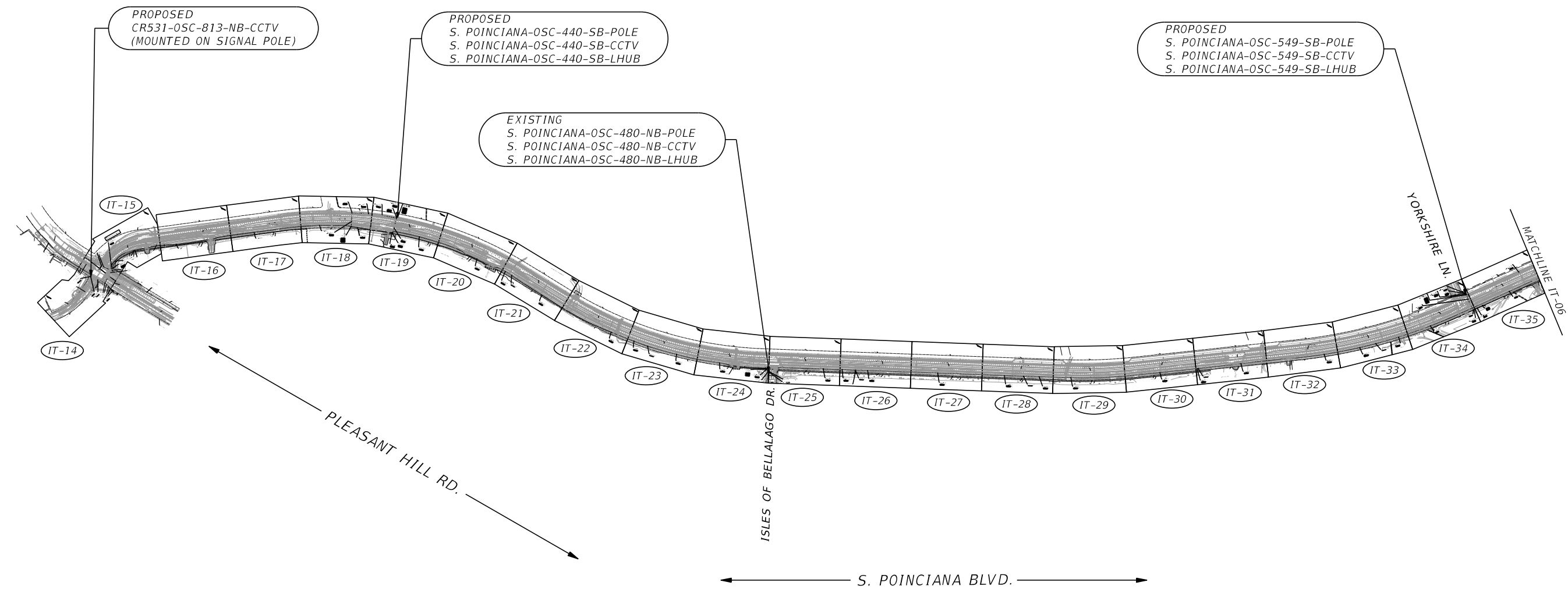
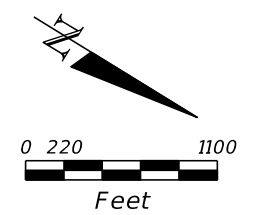
MARVIN.USRYJR@CHARTER.COM
 ROB.M.GODEK@CENTURYLINK.COM/RELOCATIONS@LUMEN.COM
 ROBB.BROWN@DUKE-ENERGY.COM/DEFDISTRIBUTIONGOV@DUKE-ENERGY.COM
 MARK.HURST@DUKE-ENERGY.COM
 AROGERS@PIKE.COM/DEFTRANSMISSIONGOV@DUKE-ENERGY.COM
 FESCOBAR@KUA.COM
 LINDSEY.GIOVINAZZO@OSCEOLA.ORG
 RSCHEUELE@OUC.COM/DEVELOPMENTSERVICES@OUC.COM
 JON.BAKER@T-MOBILE.COM
 SWINSOR@TECOENERGY.COM
 RPELHAM@TOHOWATER.COM
 LINDSEY.GIOVINAZZO@OSCEOLA.ORG
 TESS.BENTAYOU@ZAYO.COM

UTILITY NOTES

1. CONTRACTOR SHALL CONTACT UTILITIES PRIOR TO INSTALLATION TO BE ON-SITE FOR ITS POLE LOCATION EXCAVATION.


LEGEND	
SYMBOLS	DESCRIPTION
----	EXISTING 72 SM ITS FOC CONDUIT
----	EXISTING ITS CONDUIT WITH PROPOSED 72 SM FOC REPLACEMENT
_____	INSTALL NEW UNDERGROUND HDPE CONDUIT
_____	INSTALL NEW DIRECTIONAL BORE HDPE CONDUIT
	PROPOSED PEDESTAL POLE MOUNT SERVICE DISCONNECT
	PROPOSED CCTV
	PROPOSED POLE MOUNT ITS CABINET
	EXISTING FIBER PULL BOX
	EXISTING ELECTRICAL PULL BOX
	PROPOSED ELECTRICAL PULL BOX
	PROPOSED FIBER PULL BOX
	PROPOSED FIBER SPLICE BOX
	PROPOSED CCTV POLE

REVISIONS				ERIK SPILLMANN, P.E NO. 58771 BCC ENGINEERING, LLC. 160 N. WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714	 OSCEOLA COUNTY TRANSPORTATION AND TRANSIT 1 Courthouse Square, Suite 3100 Kissimmee, Florida 34741 (407) 742-0552 Fax:(407) 742-0560	GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				IT-11



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E. NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714

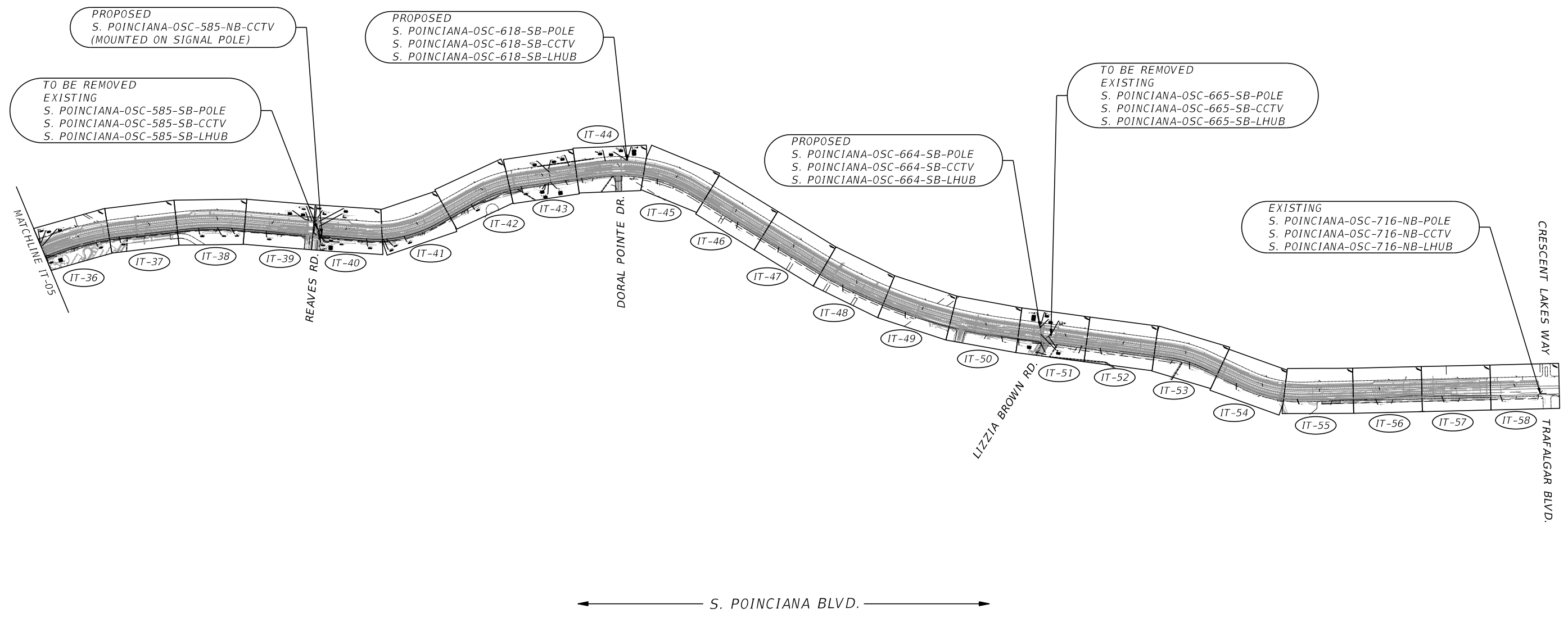
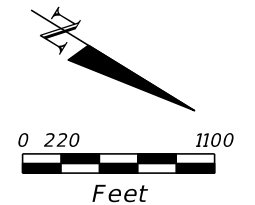


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TRANSPORTATION AND TRANSIT
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PROJECT LAYOUT


SHEET NO.
IT-12

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REVISIONS			
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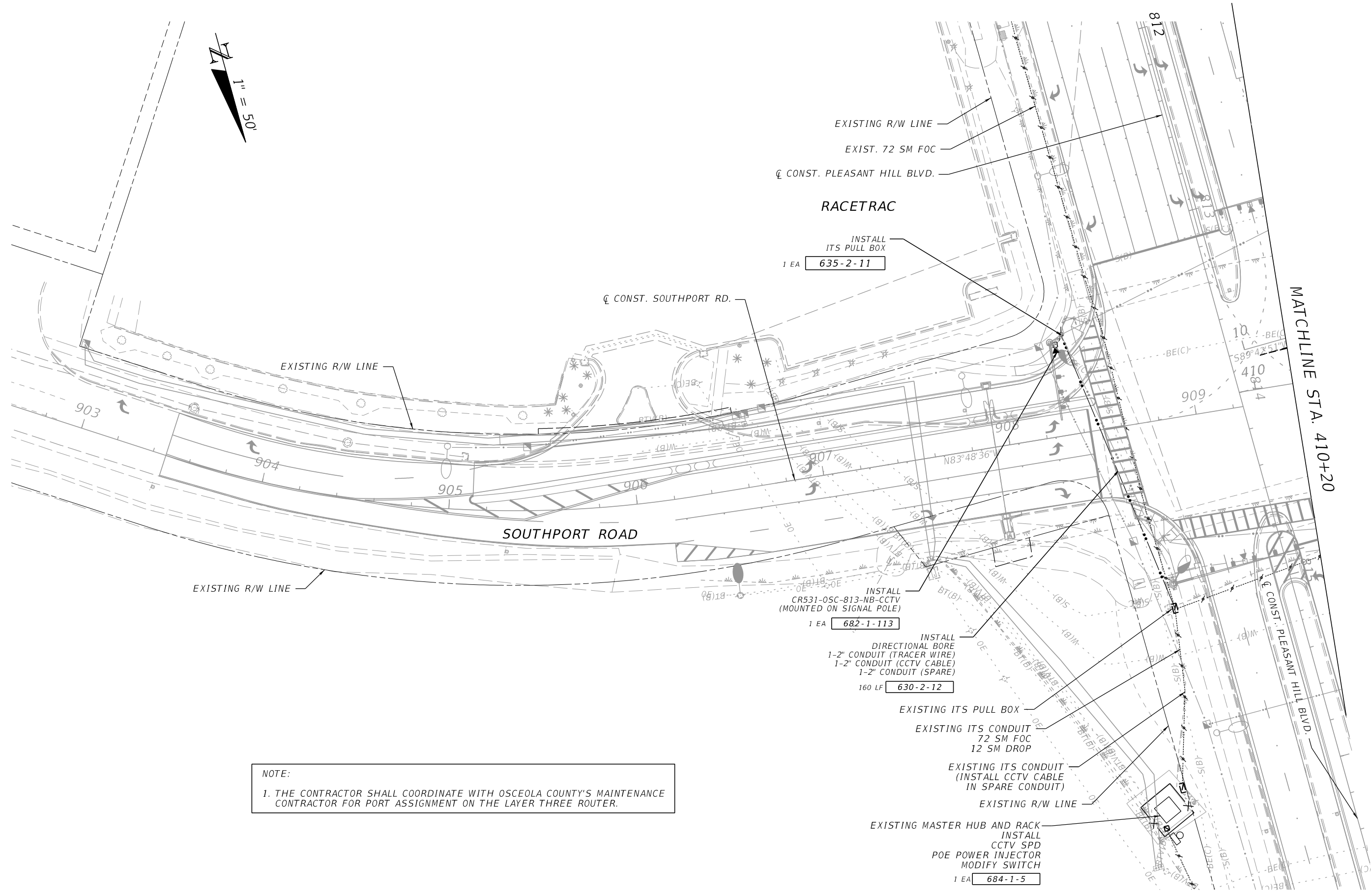
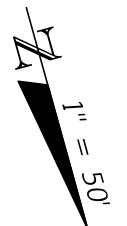
ERIK SPILLMANN, P.E. NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714

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PROJECT LAYOUT

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.



NOTE:
1. THE CONTRACTOR SHALL COORDINATE WITH OSCEOLA COUNTY'S MAINTENANCE CONTRACTOR FOR PORT ASSIGNMENT ON THE LAYER THREE ROUTER.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

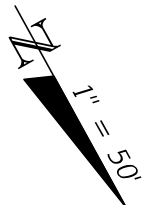
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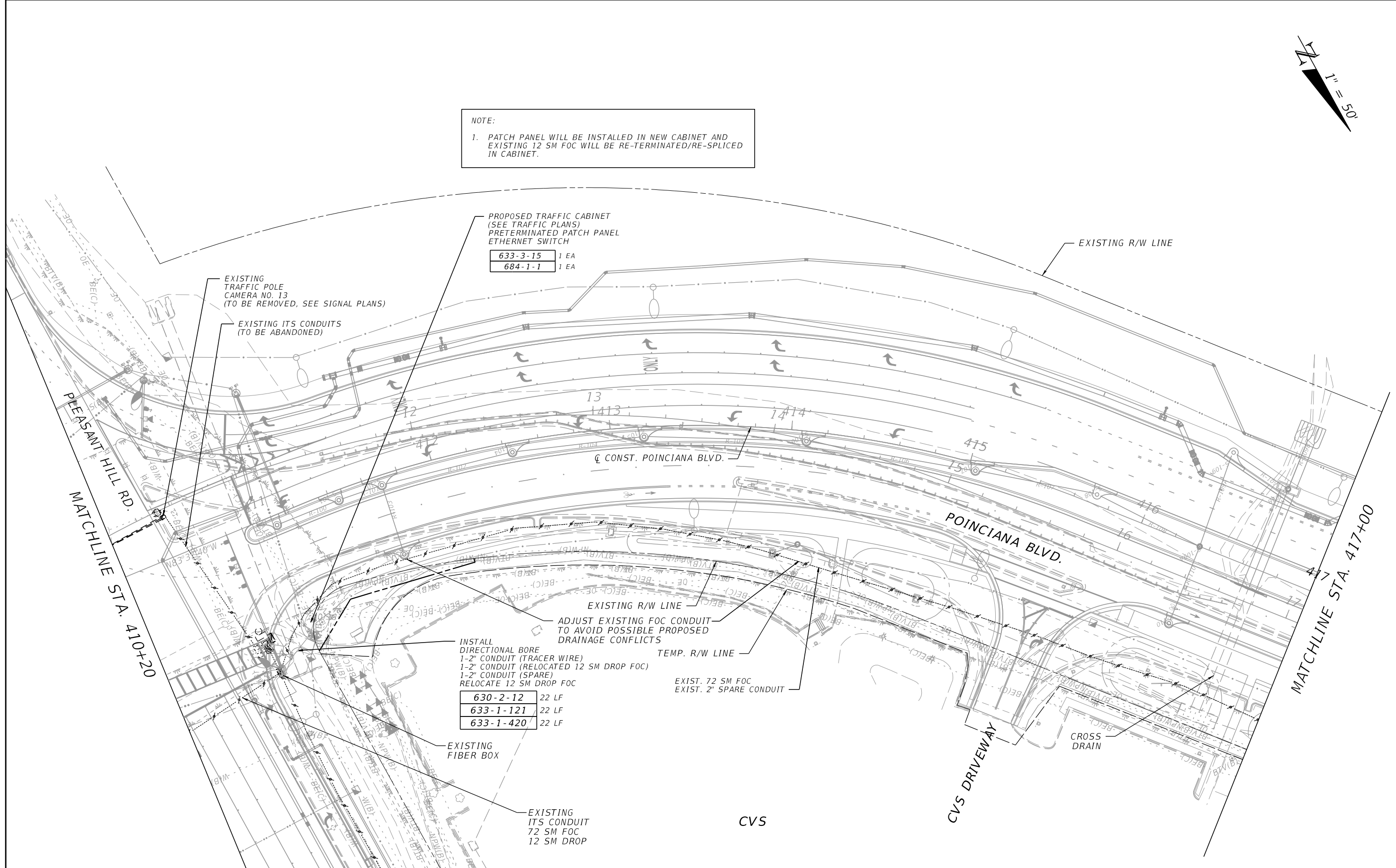
ITS PLANS (1)

SHEET NO.
IT-14

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NOTE:
 1. PATCH PANEL WILL BE INSTALLED IN NEW CABINET AND EXISTING 12 SM FOC WILL BE RE-TERMINATED/RE-SPLICED IN CABINET.



633-3-15	1 EA
684-1-1	1 EA

630-2-12	22 LF
633-1-121	22 LF
633-1-420	22 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

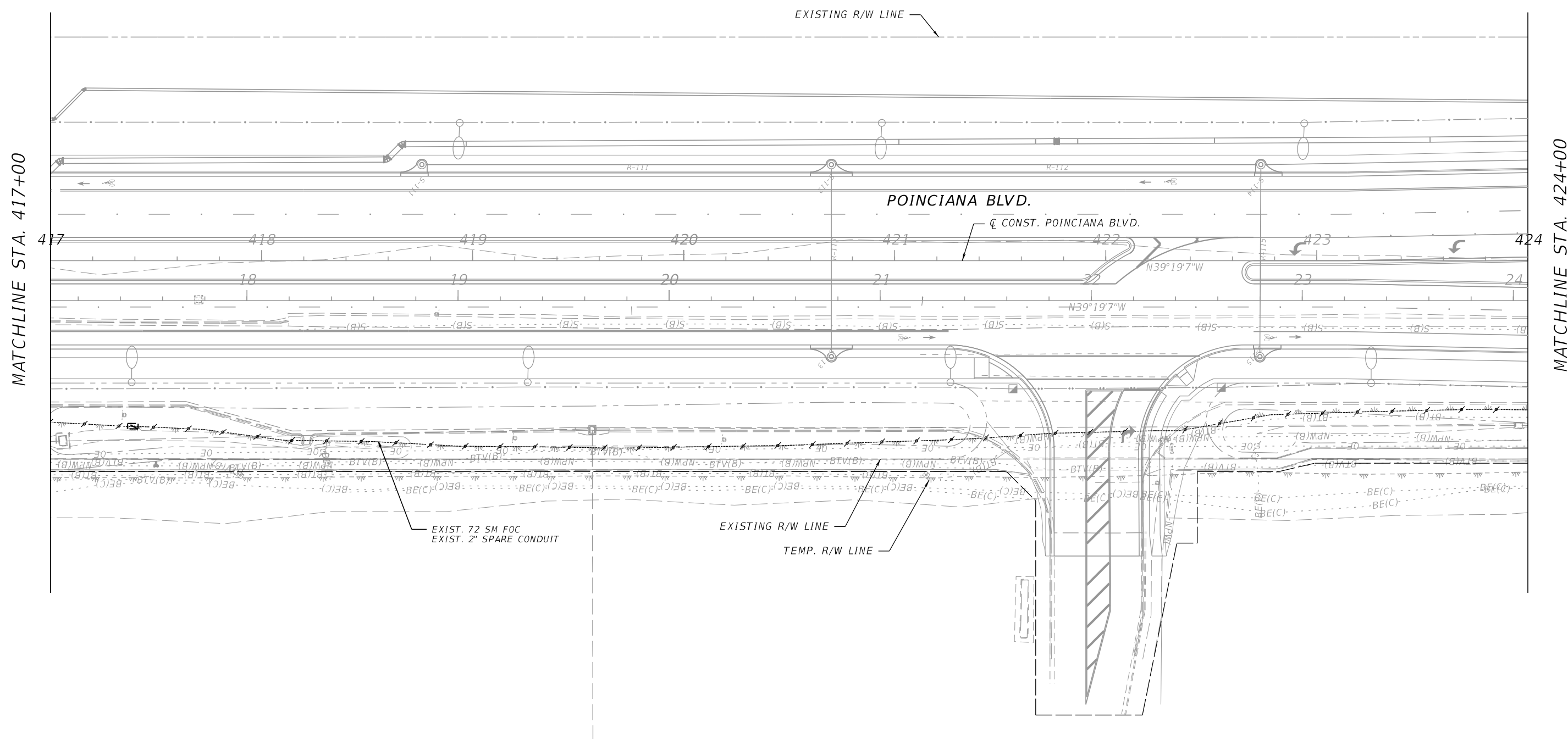
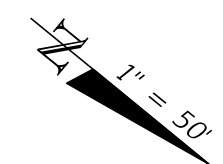
ERIK SPILLMANN, P.E. NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714



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ITS PLANS (2)

SHEET NO.
 IT-15



MATCHLINE STA. 417+00

MATCHLINE STA. 424+00

REVISIONS			
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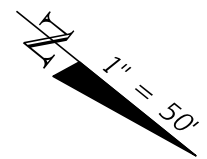


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ITS PLANS (3)

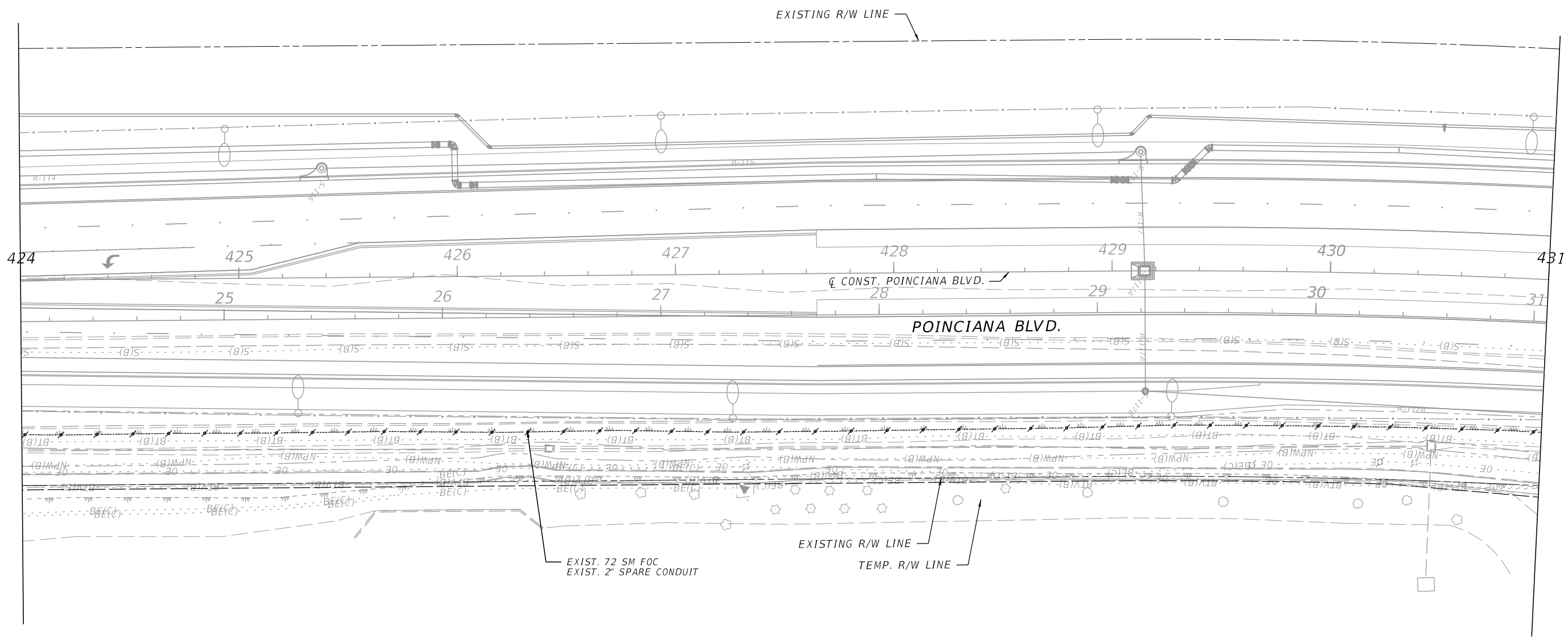
SHEET NO.
 IT-16

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MATCHLINE STA. 424+00

MATCHLINE STA. 431+00



REVISIONS			
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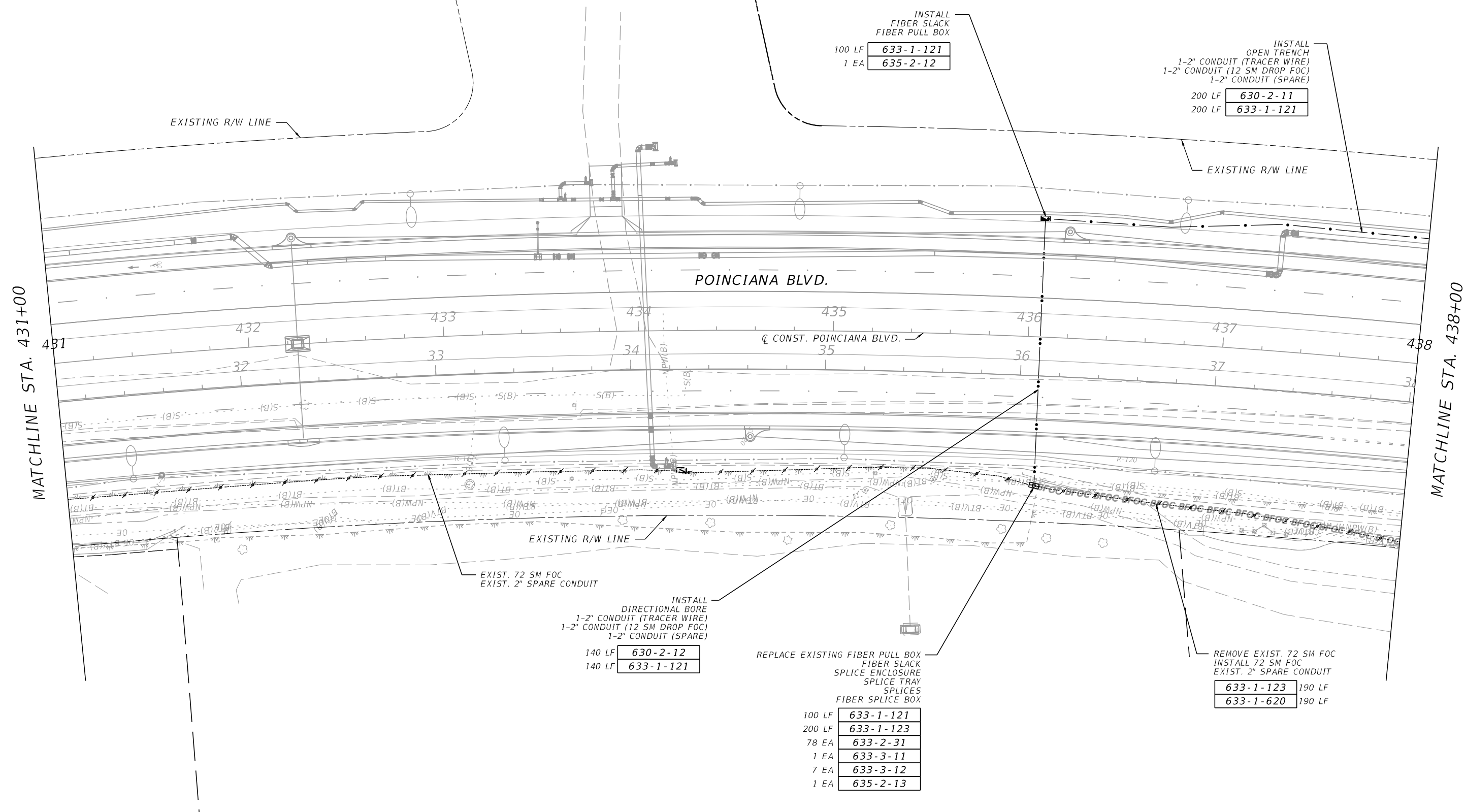
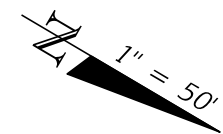


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ITS PLANS (4)


SHEET NO.
 IT-17

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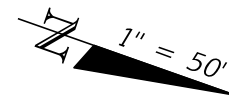


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ITS PLANS (5)

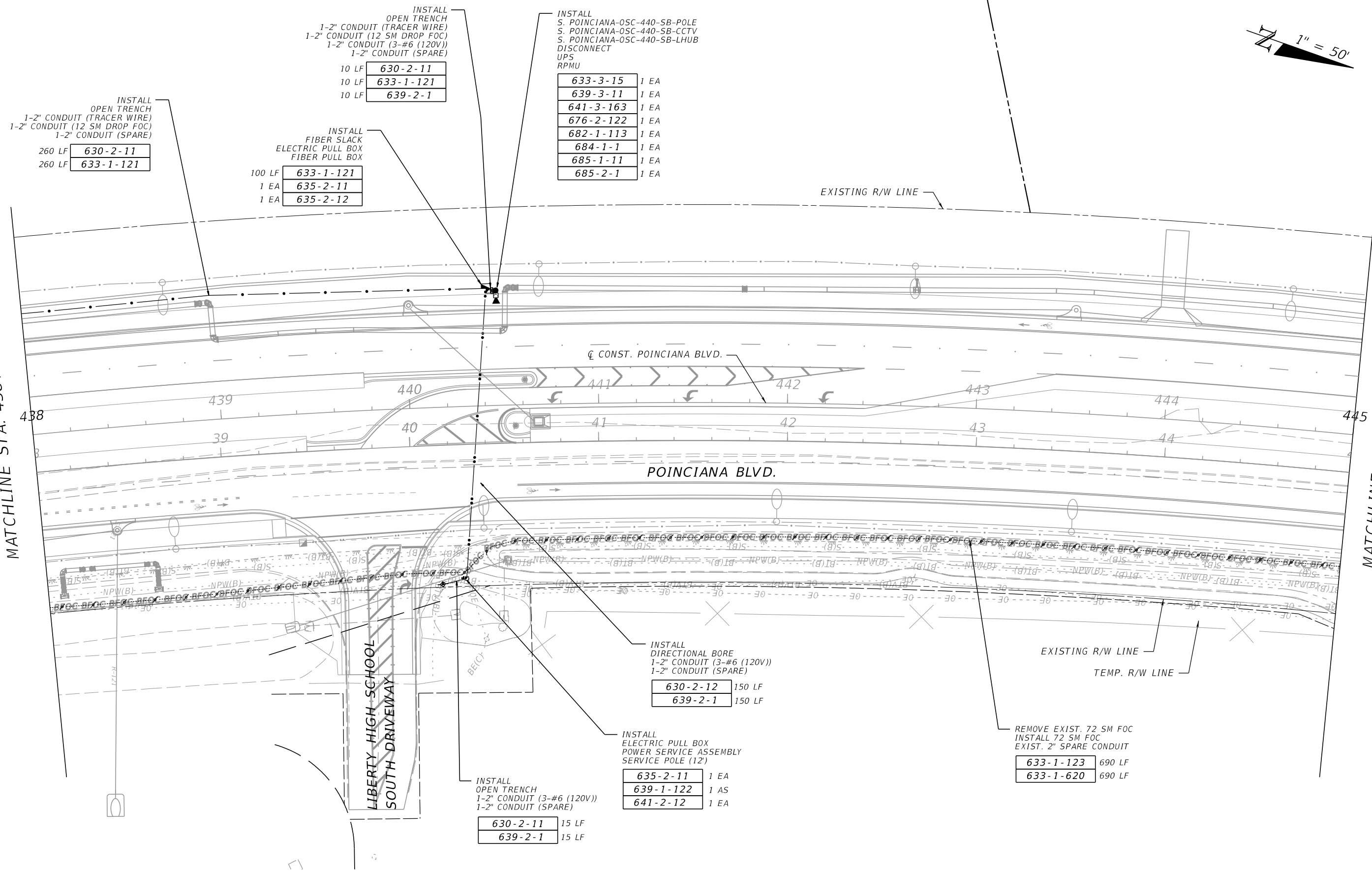
SHEET NO.
 IT-18

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MATCHLINE STA. 438+00

MATCHLINE STA. 445+00



INSTALL
OPEN TRENCH
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (SPARE)

260 LF	630-2-11
260 LF	633-1-121

INSTALL
FIBER SLACK
ELECTRIC PULL BOX
FIBER PULL BOX

100 LF	633-1-121
1 EA	635-2-11
1 EA	635-2-12

INSTALL
OPEN TRENCH
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (3-#6 (120V))
1-2" CONDUIT (SPARE)

10 LF	630-2-11
10 LF	633-1-121
10 LF	639-2-1

INSTALL
S. POINCIANA-OSC-440-SB-POLE
S. POINCIANA-OSC-440-SB-CCTV
S. POINCIANA-OSC-440-SB-LHUB
DISCONNECT
UPS
RPMU

633-3-15	1 EA
639-3-11	1 EA
641-3-163	1 EA
676-2-122	1 EA
682-1-113	1 EA
684-1-1	1 EA
685-1-11	1 EA
685-2-1	1 EA

INSTALL
DIRECTIONAL BORE
1-2" CONDUIT (3-#6 (120V))
1-2" CONDUIT (SPARE)

630-2-12	150 LF
639-2-1	150 LF

INSTALL
ELECTRIC PULL BOX
POWER SERVICE ASSEMBLY
SERVICE POLE (12')

635-2-11	1 EA
639-1-122	1 AS
641-2-12	1 EA

INSTALL
OPEN TRENCH
1-2" CONDUIT (3-#6 (120V))
1-2" CONDUIT (SPARE)


630-2-11	15 LF
639-2-1	15 LF

REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
EXIST. 2" SPARE CONDUIT

633-1-123	690 LF
633-1-620	690 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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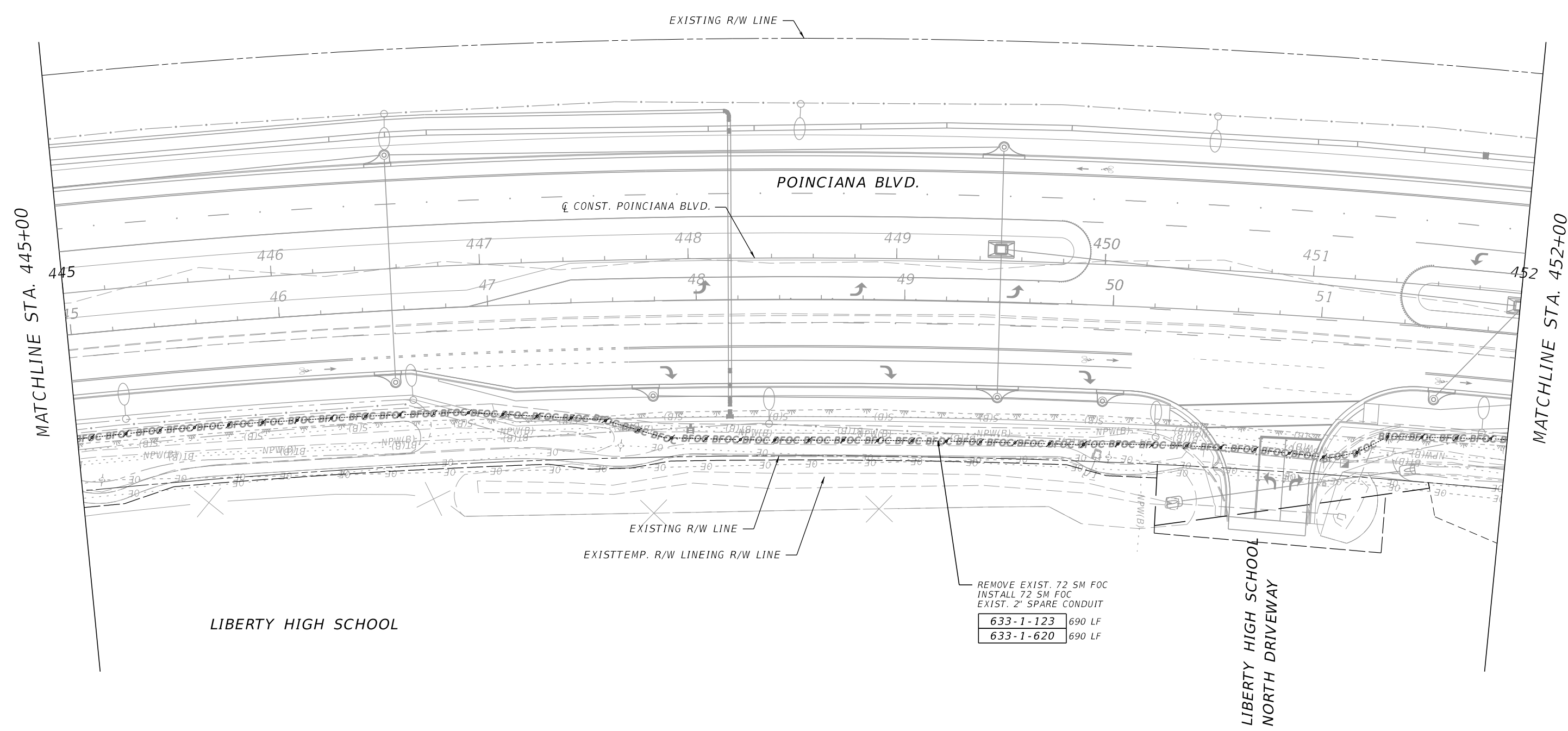
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ITS PLANS (6)

SHEET NO.
IT-19

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N 1" = 50'



REMOVE EXIST. 72 SM FOC
 INSTALL 72 SM FOC
 EXIST. 2" SPARE CONDUIT

633-1-123	690 LF
633-1-620	690 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E. NO. 58771
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 ALTAMONTE SPRINGS, FLORIDA 32714

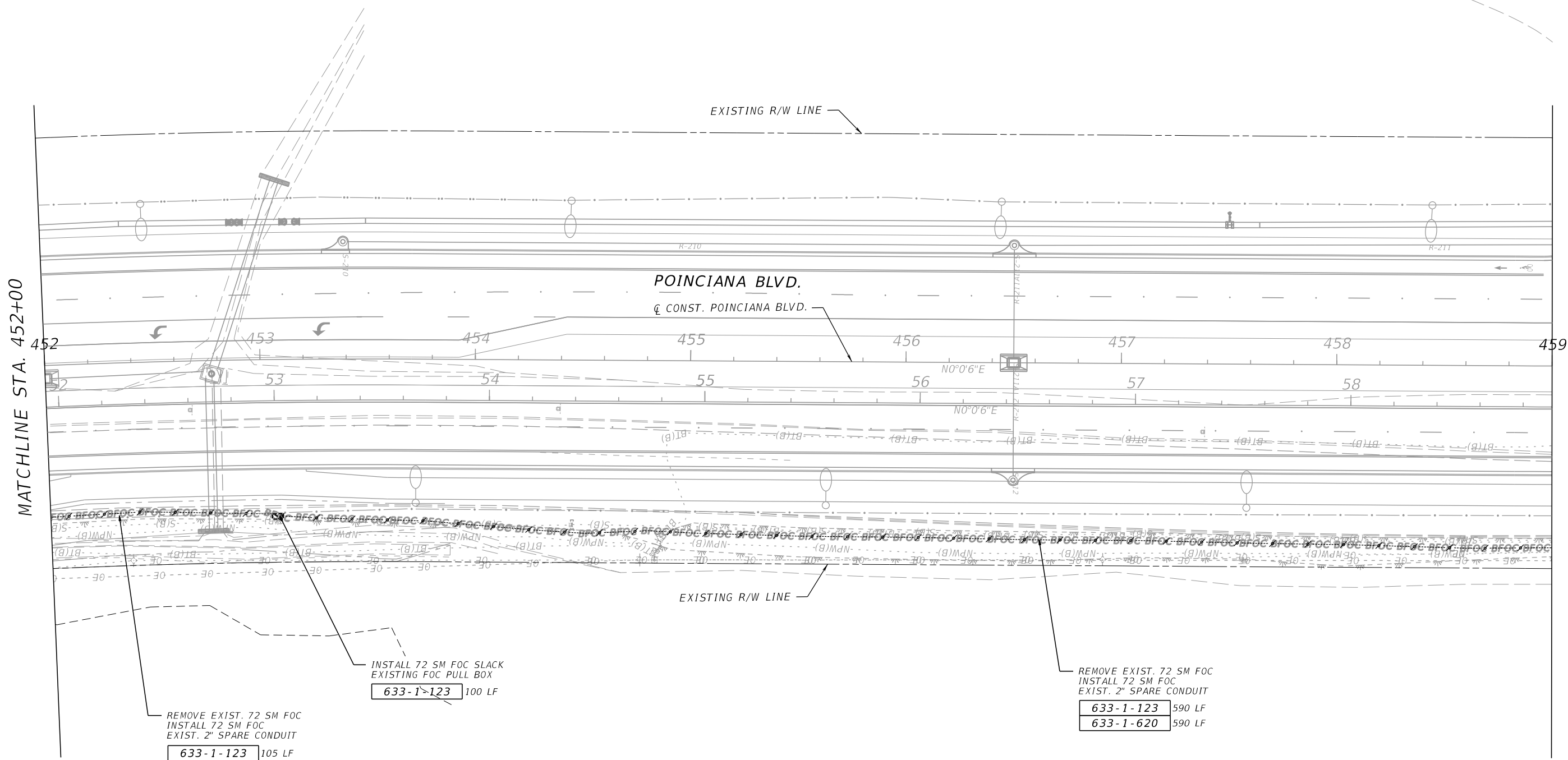
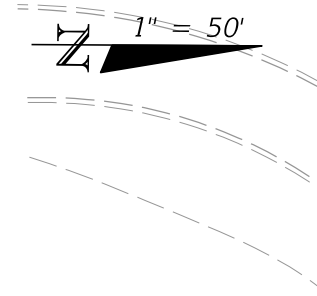
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ITS PLANS (7)

SHEET NO.
 IT-20


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OSCEOLA COUNTY ENVIRONMENTAL



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ITS PLANS (8)

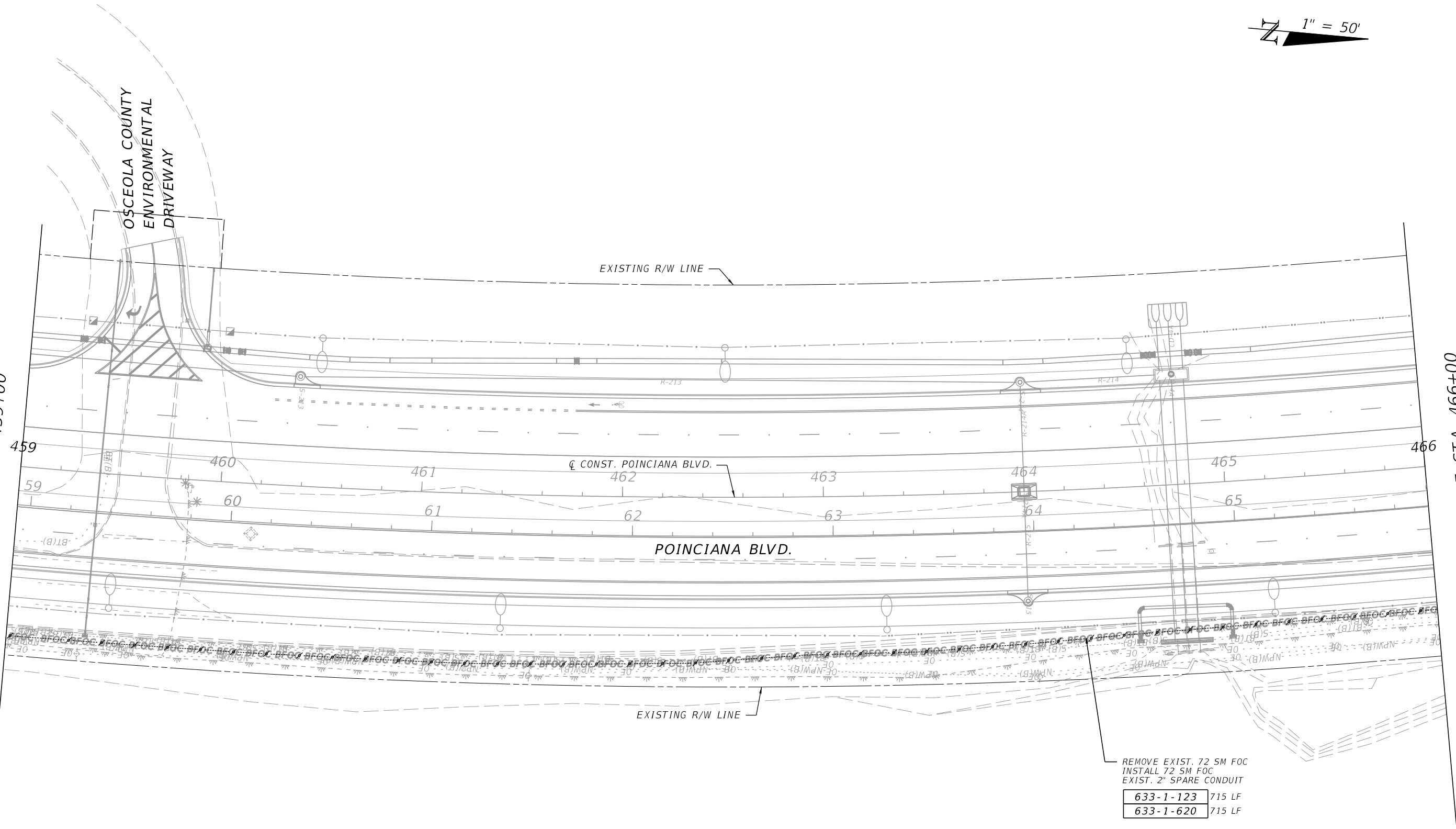
SHEET NO.
 IT-21

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1" = 50'

MATCHLINE STA. 459+00

MATCHLINE STA. 466+00



REVISIONS			
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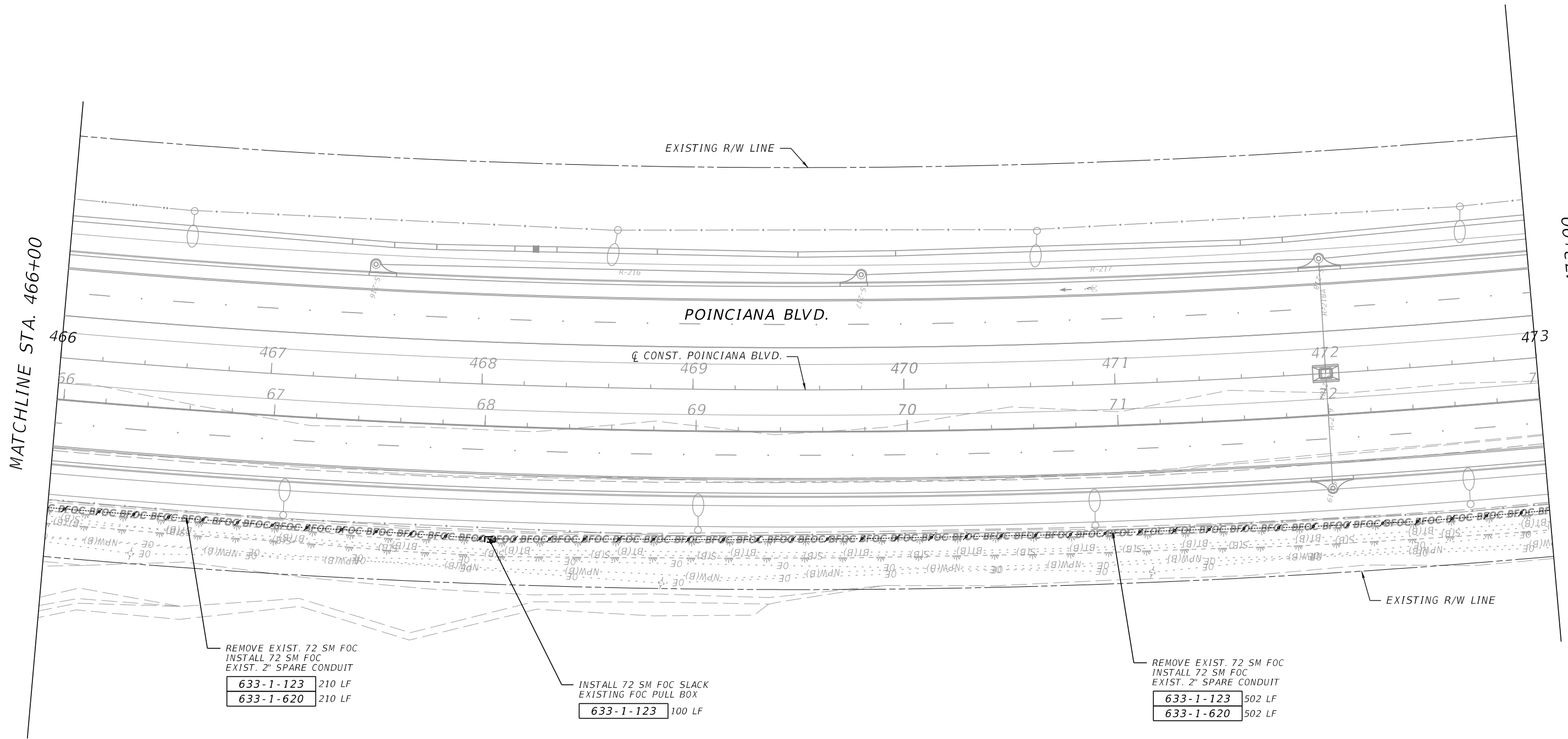
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ITS PLANS (9)

SHEET NO.


IT-22

1" = 50'



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

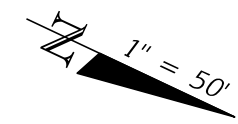
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ITS PLANS (10)

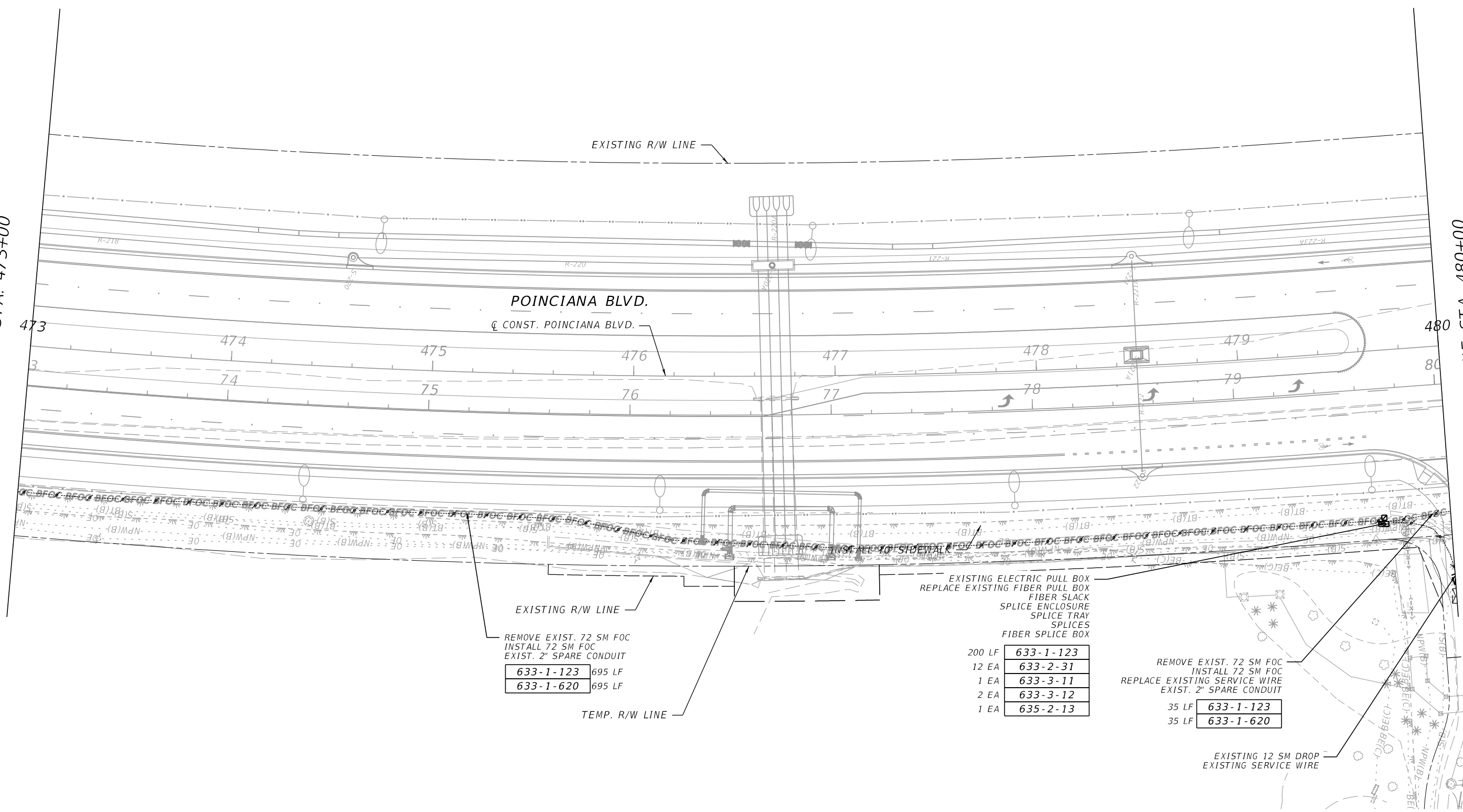
SHEET NO.
IT-23

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MATCHLINE STA. 473+00

MATCHLINE STA. 480+00



EXISTING R/W LINE

REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
EXIST. 2" SPARE CONDUIT

633-1-123	695 LF
633-1-620	695 LF

TEMP. R/W LINE

EXISTING ELECTRIC PULL BOX
REPLACE EXISTING FIBER PULL BOX
FIBER SLACK
SPLICE ENCLOSURE
SPLICE TRAY
SPLICES
FIBER SPLICE BOX

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


REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
REPLACE EXISTING SERVICE WIRE
EXIST. 2" SPARE CONDUIT

35 LF	633-1-123
35 LF	633-1-620

EXISTING 12 SM DROP
EXISTING SERVICE WIRE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ALTAMONTE SPRINGS, FLORIDA 32714

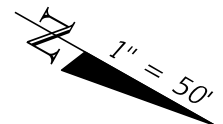


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ITS PLANS (11)

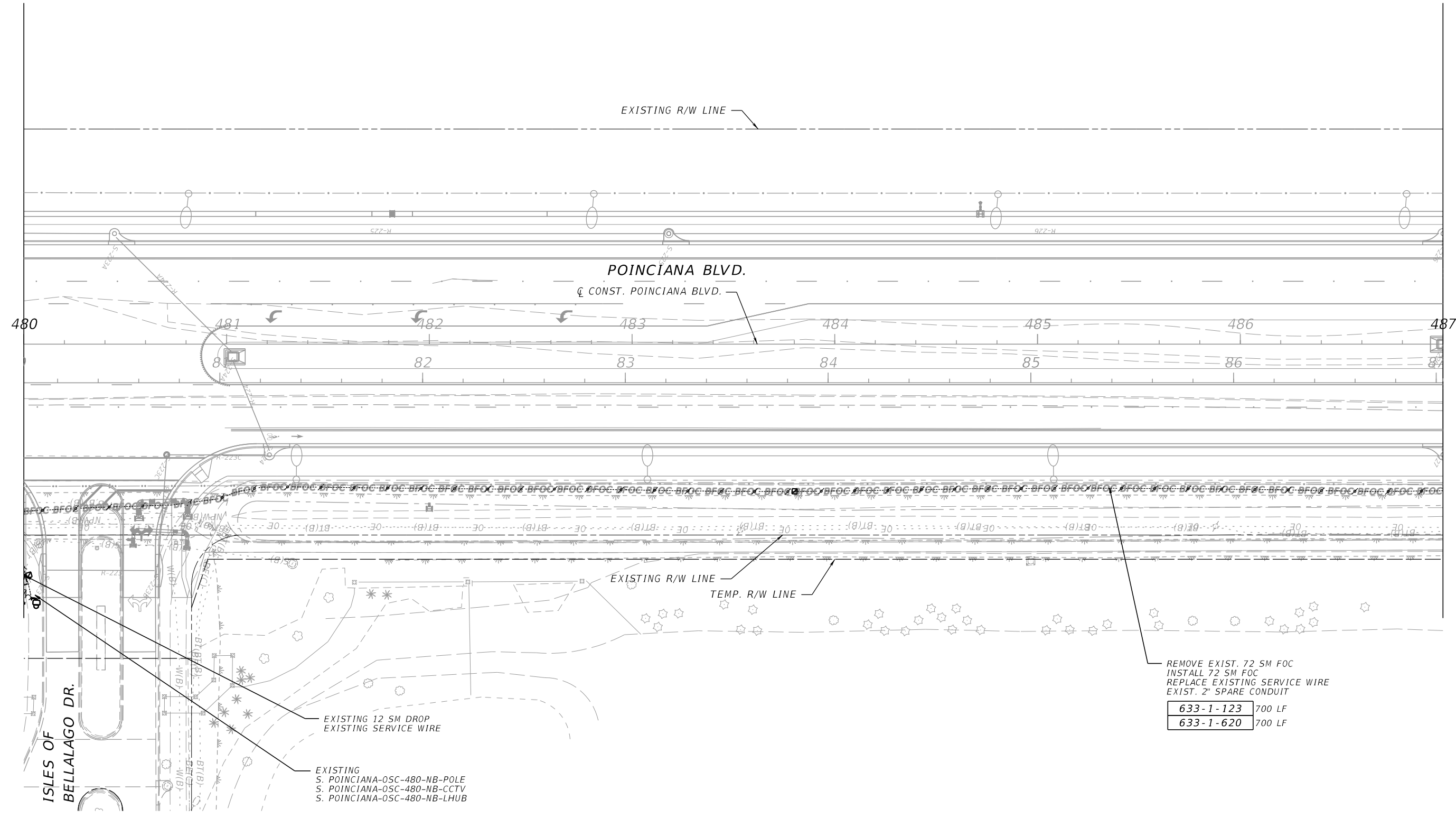
SHEET NO.
IT-24

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MATCHLINE STA. 480+00

MATCHLINE STA. 487+00



REMOVE EXIST. 72 SM FOC
 INSTALL 72 SM FOC
 REPLACE EXISTING SERVICE WIRE
 EXIST. 2" SPARE CONDUIT


633-1-123	700 LF
633-1-620	700 LF

EXISTING 12 SM DROP
 EXISTING SERVICE WIRE

EXISTING
 S. POINCIANA-OSC-480-NB-POLE
 S. POINCIANA-OSC-480-NB-CCTV
 S. POINCIANA-OSC-480-NB-LHUB

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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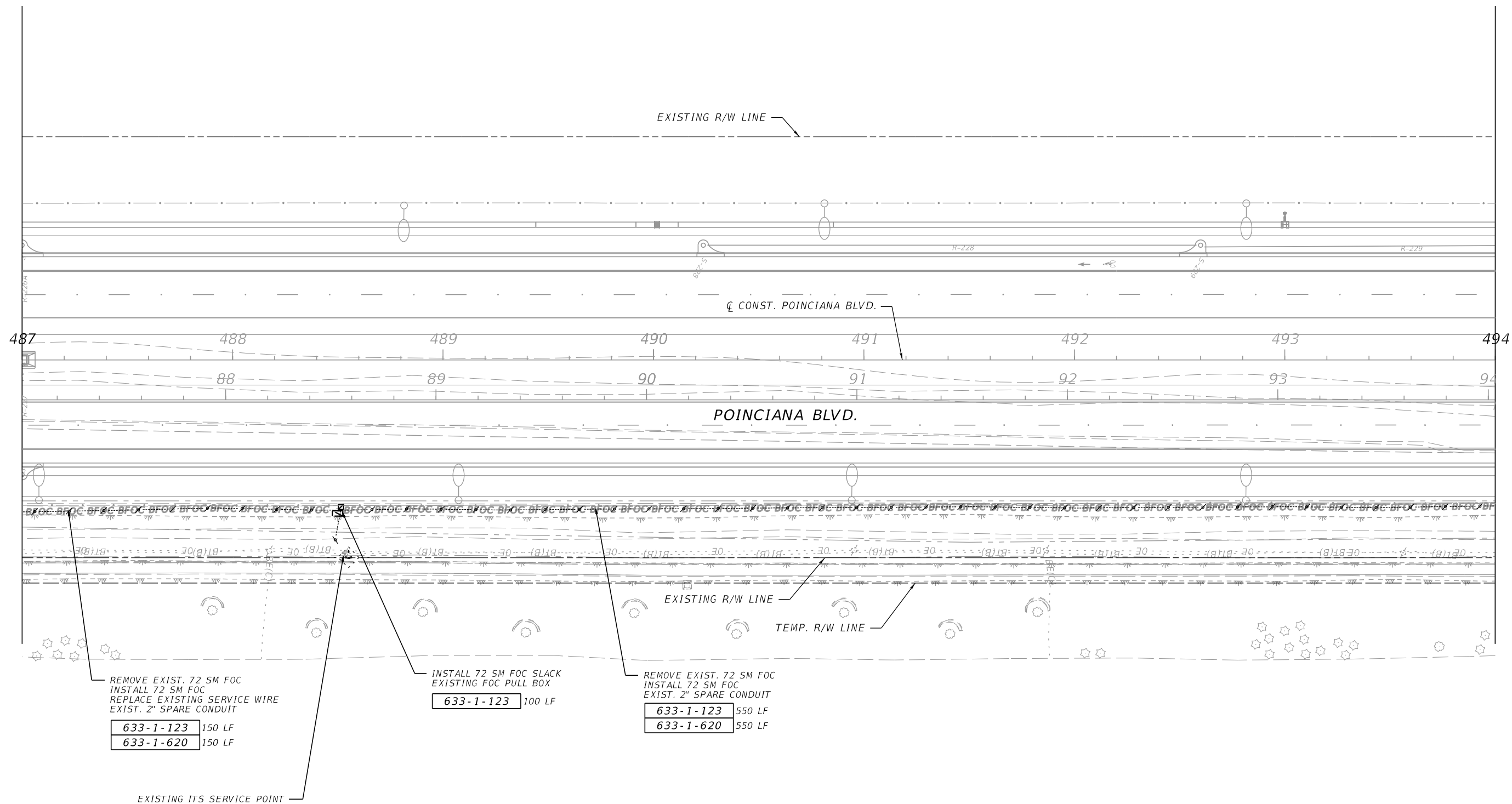
ITS PLANS (12)

SHEET NO.
 IT-25

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

MATCHLINE STA. 487+00

MATCHLINE STA. 494+00



REMOVE EXIST. 72 SM FOC
 INSTALL 72 SM FOC
 REPLACE EXISTING SERVICE WIRE
 EXIST. 2" SPARE CONDUIT

633-1-123	150 LF
633-1-620	150 LF

INSTALL 72 SM FOC SLACK
 EXISTING FOC PULL BOX

633-1-123	100 LF
-----------	--------

REMOVE EXIST. 72 SM FOC
 INSTALL 72 SM FOC
 EXIST. 2" SPARE CONDUIT

633-1-123	550 LF
633-1-620	550 LF

EXISTING ITS SERVICE POINT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ITS PLANS (13)

SHEET NO.

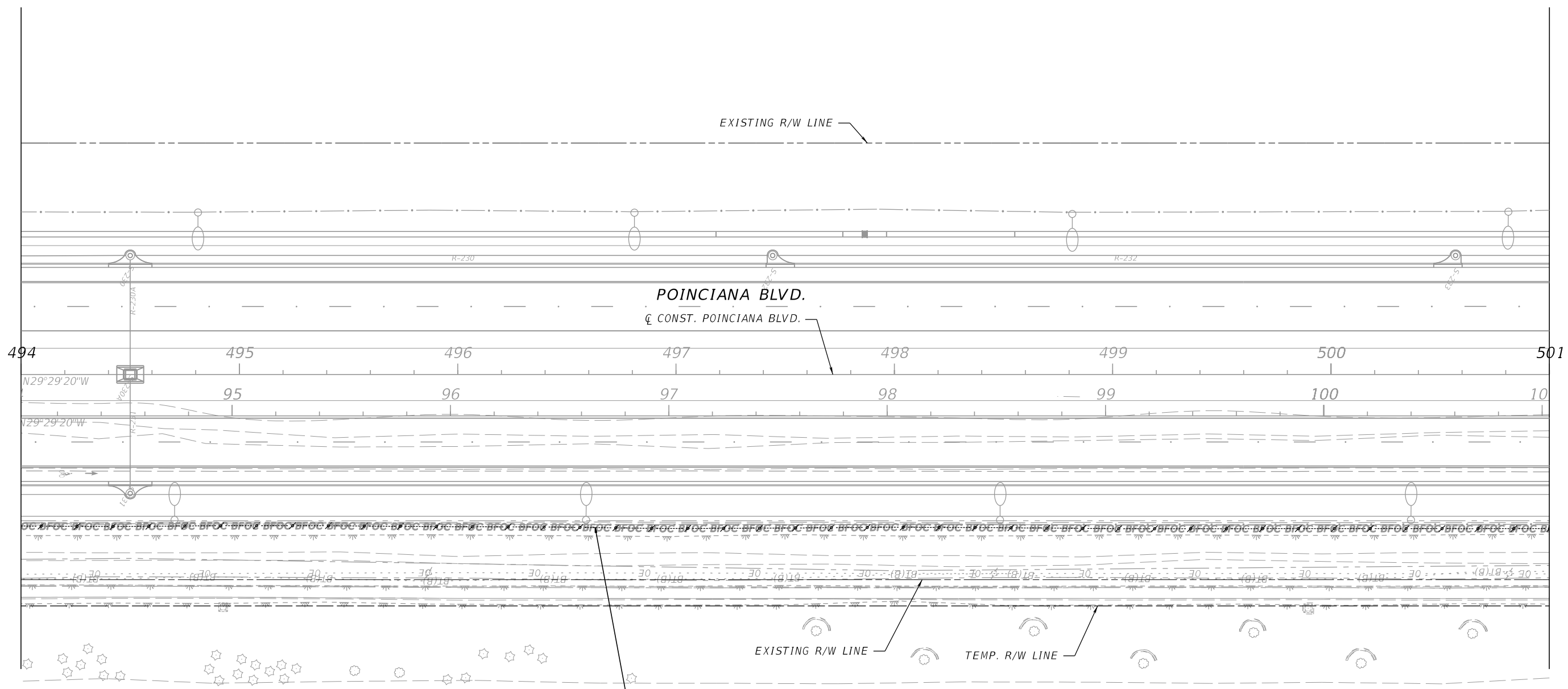
IT-26

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1" = 50'

MATCHLINE STA. 494+00

MATCHLINE STA. 501+00



REMOVE EXIST. 72 SM FOC
 INSTALL 72 SM FOC
 EXIST. 2" SPARE CONDUIT

633-1-123	700 LF
633-1-620	700 LF

REVISIONS			
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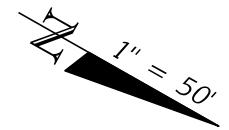


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ITS PLANS (14)

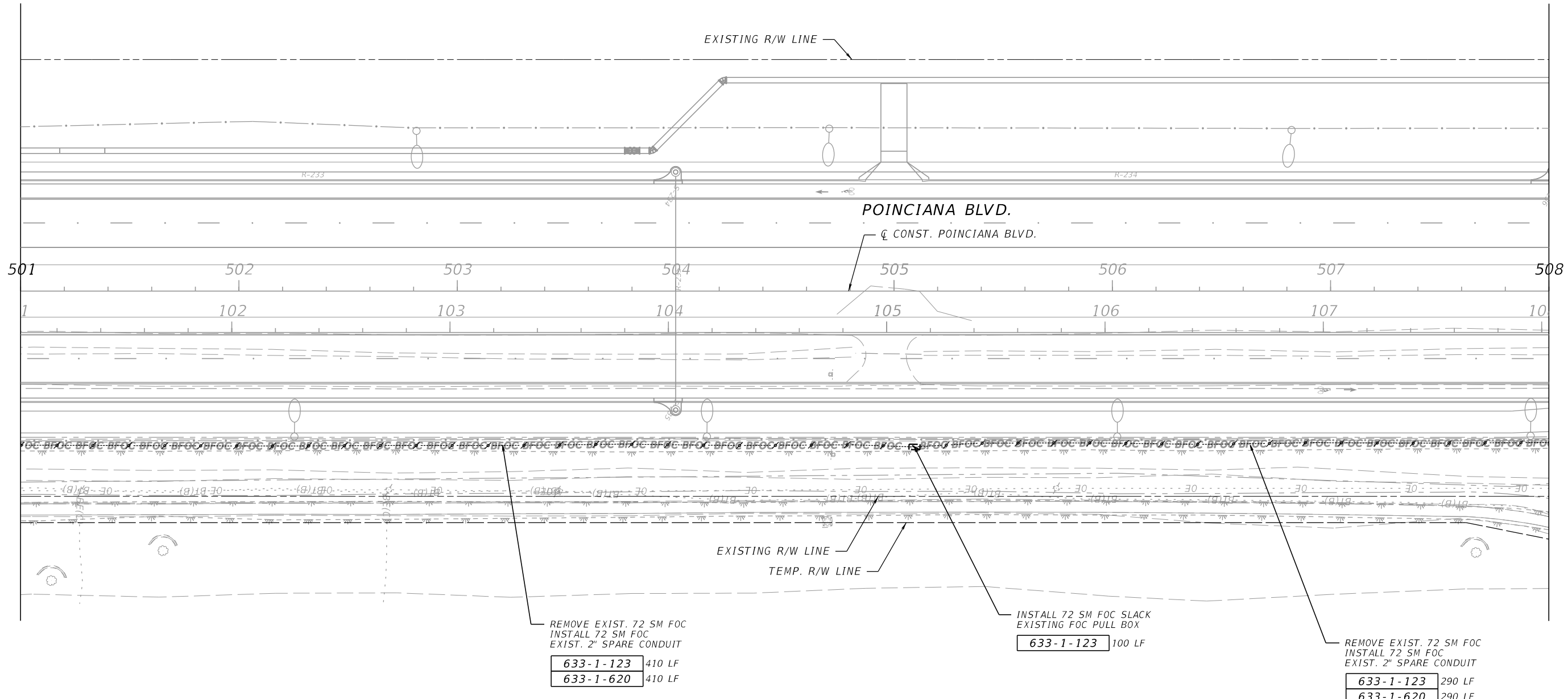
SHEET NO.
 IT-27

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MATCHLINE STA. 501+00

MATCHLINE STA. 508+00



REVISIONS			
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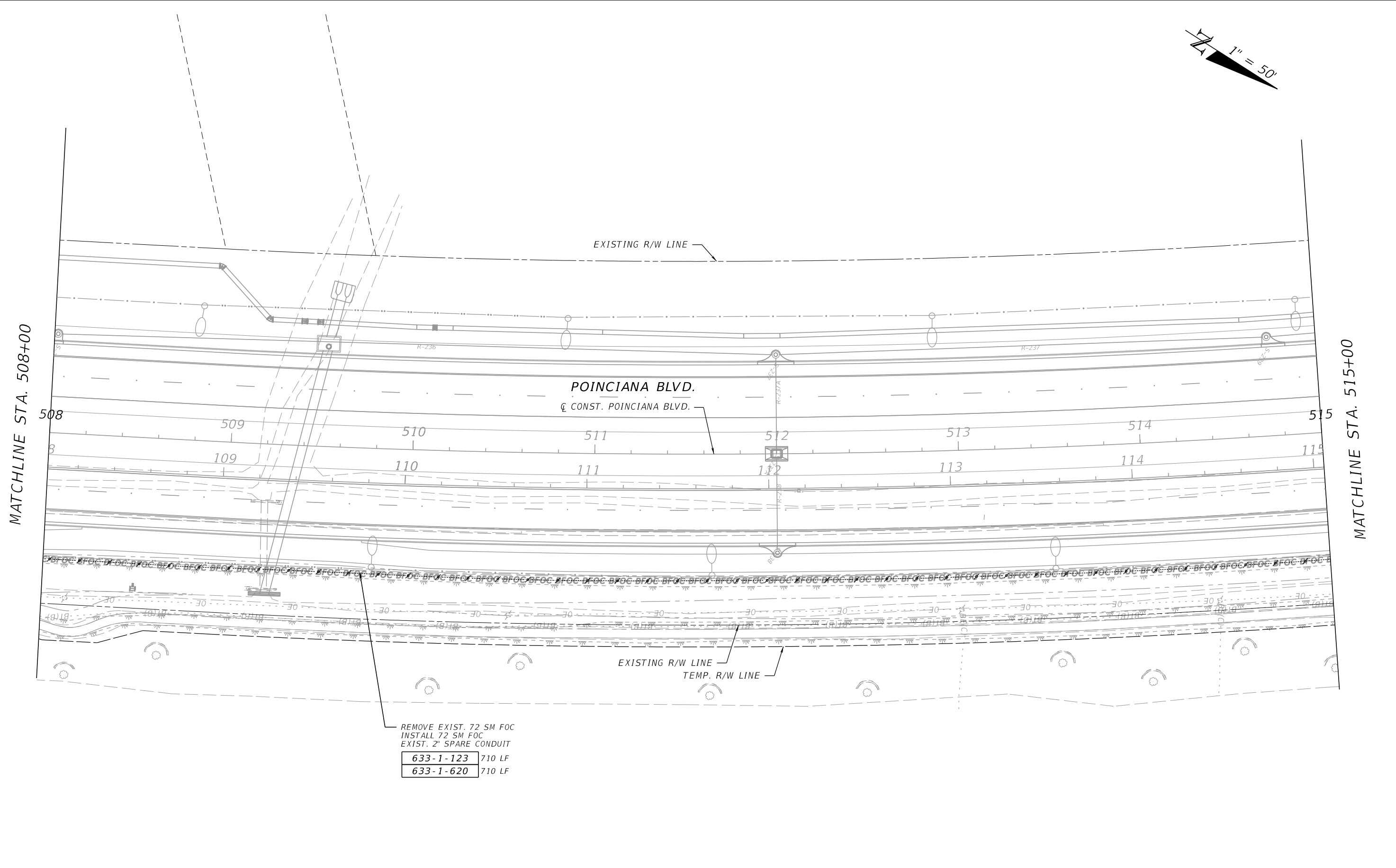
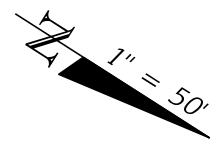
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ITS PLANS (15)

SHEET NO.
IT-28

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MATCHLINE STA. 508+00

MATCHLINE STA. 515+00

REMOVE EXIST. 72 SM FOC
 INSTALL 72 SM FOC
 EXIST. 2" SPARE CONDUIT

633-1-123	710 LF
633-1-620	710 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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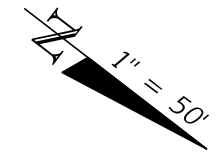


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ITS PLANS (16)

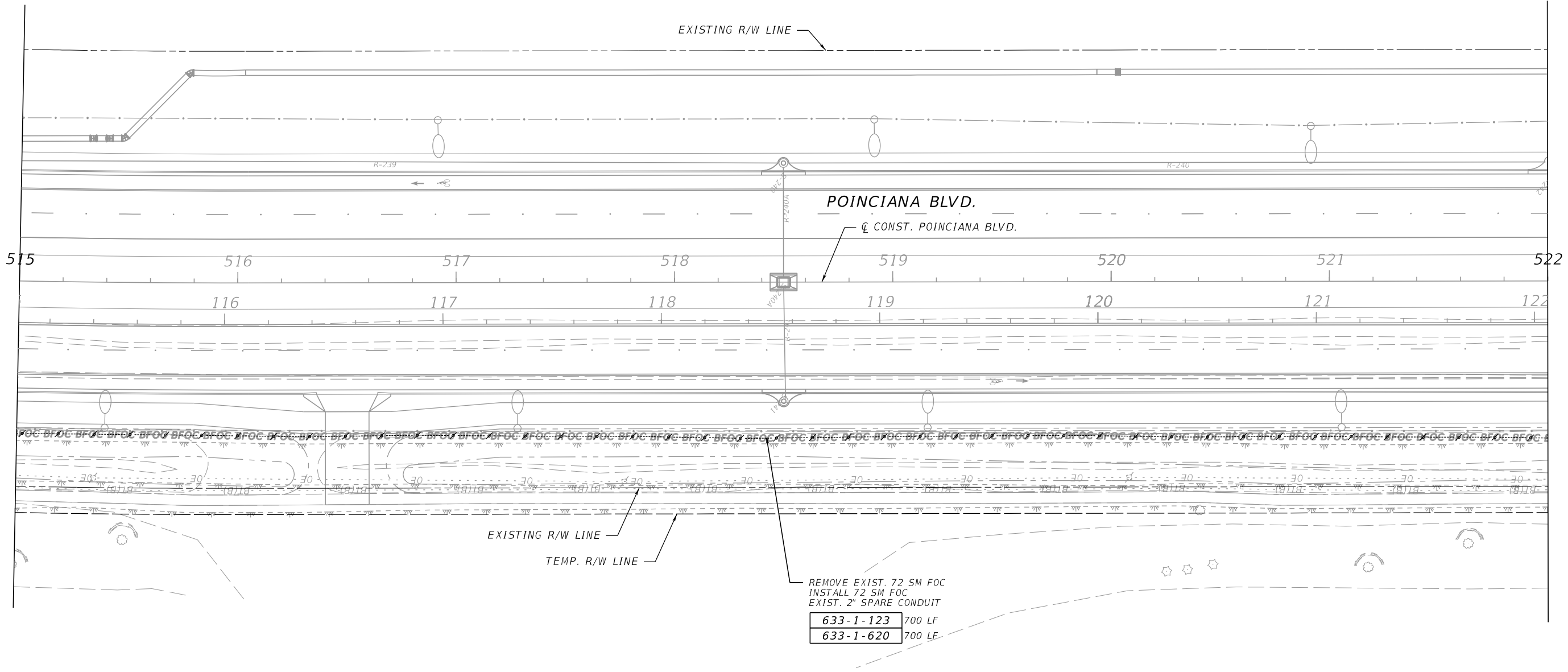
SHEET NO.
 IT-29

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MATCHLINE STA. 515+00

MATCHLINE STA. 522+00



REVISIONS			
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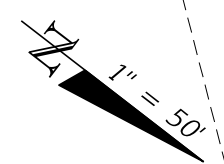


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ITS PLANS (17)

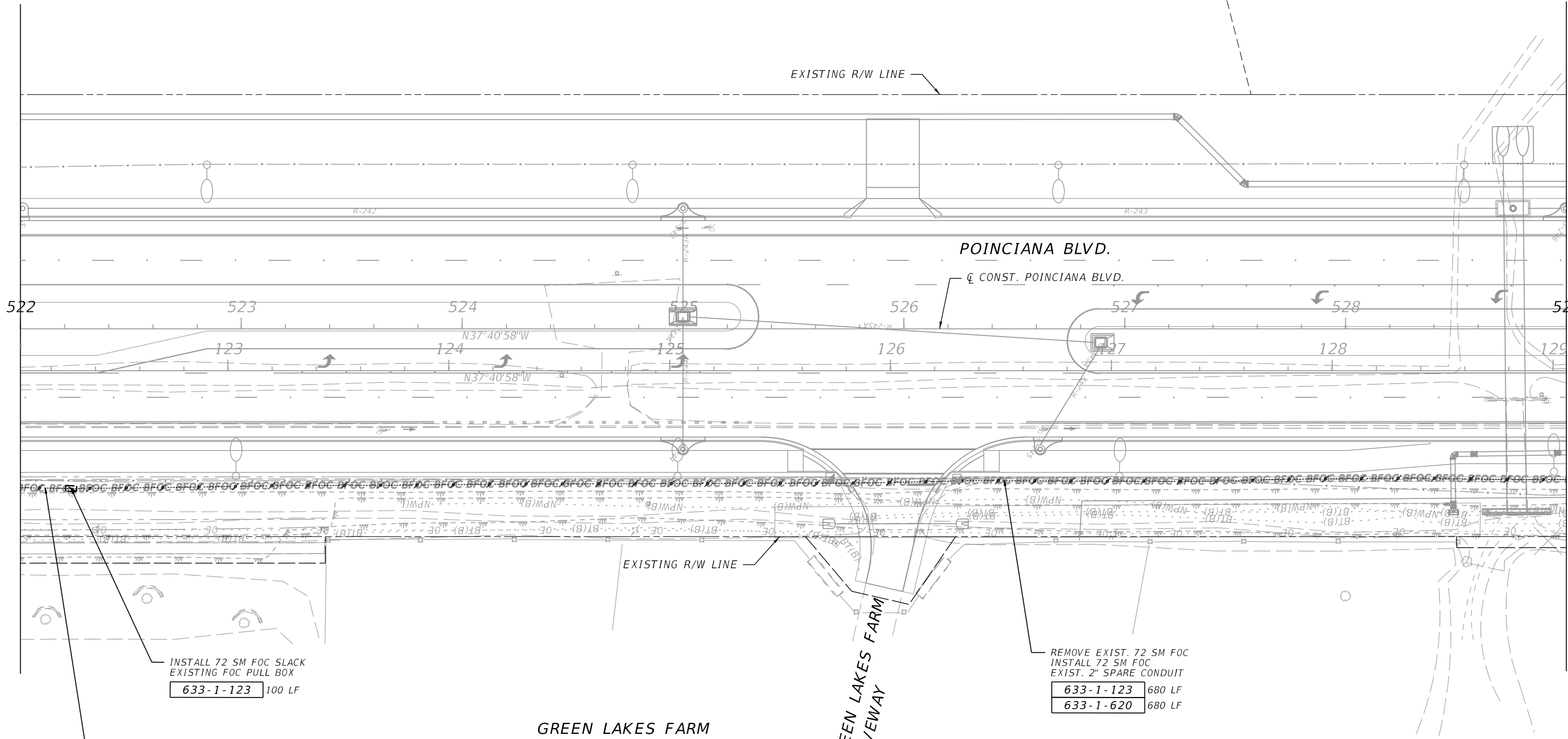
SHEET NO.
 IT-30

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MATCHLINE STA. 522+00

MATCHLINE STA. 529+00




INSTALL 72 SM FOC SLACK
EXISTING FOC PULL BOX
633-1-123 100 LF

REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
EXIST. 2" SPARE CONDUIT
633-1-123 20 LF
633-1-620 20 LF

REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
EXIST. 2" SPARE CONDUIT
633-1-123 680 LF
633-1-620 680 LF

REVISIONS	
DATE	DESCRIPTION

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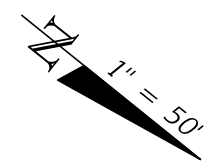


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ITS PLANS (18)

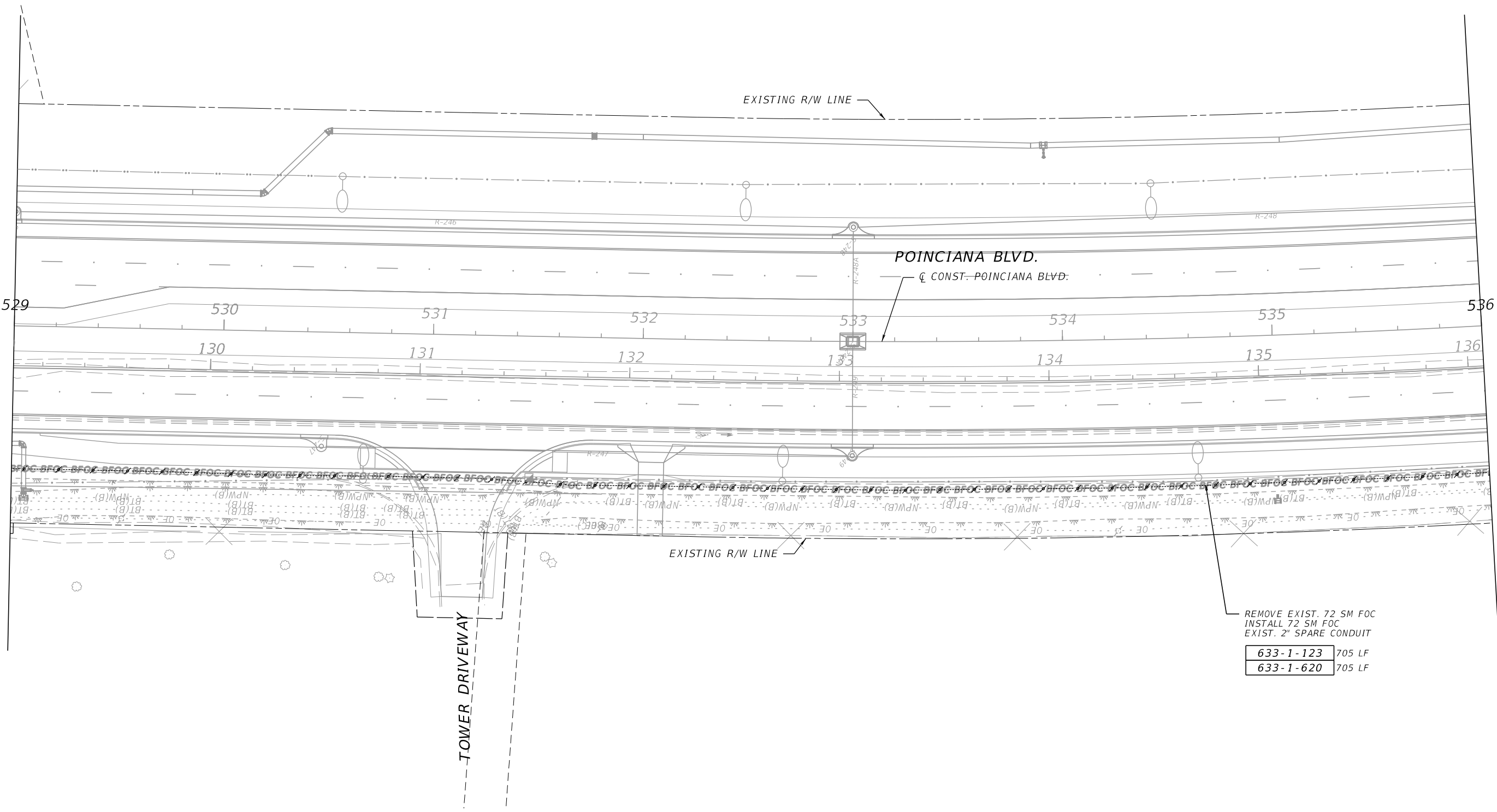
SHEET NO.
IT-31

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MATCHLINE STA. 529+00

MATCHLINE STA. 536+00



REMOVE EXIST. 72 SM FOC
 INSTALL 72 SM FOC
 EXIST. 2" SPARE CONDUIT

633-1-123	705 LF
633-1-620	705 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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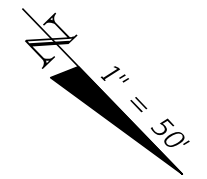


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ITS PLANS (19)

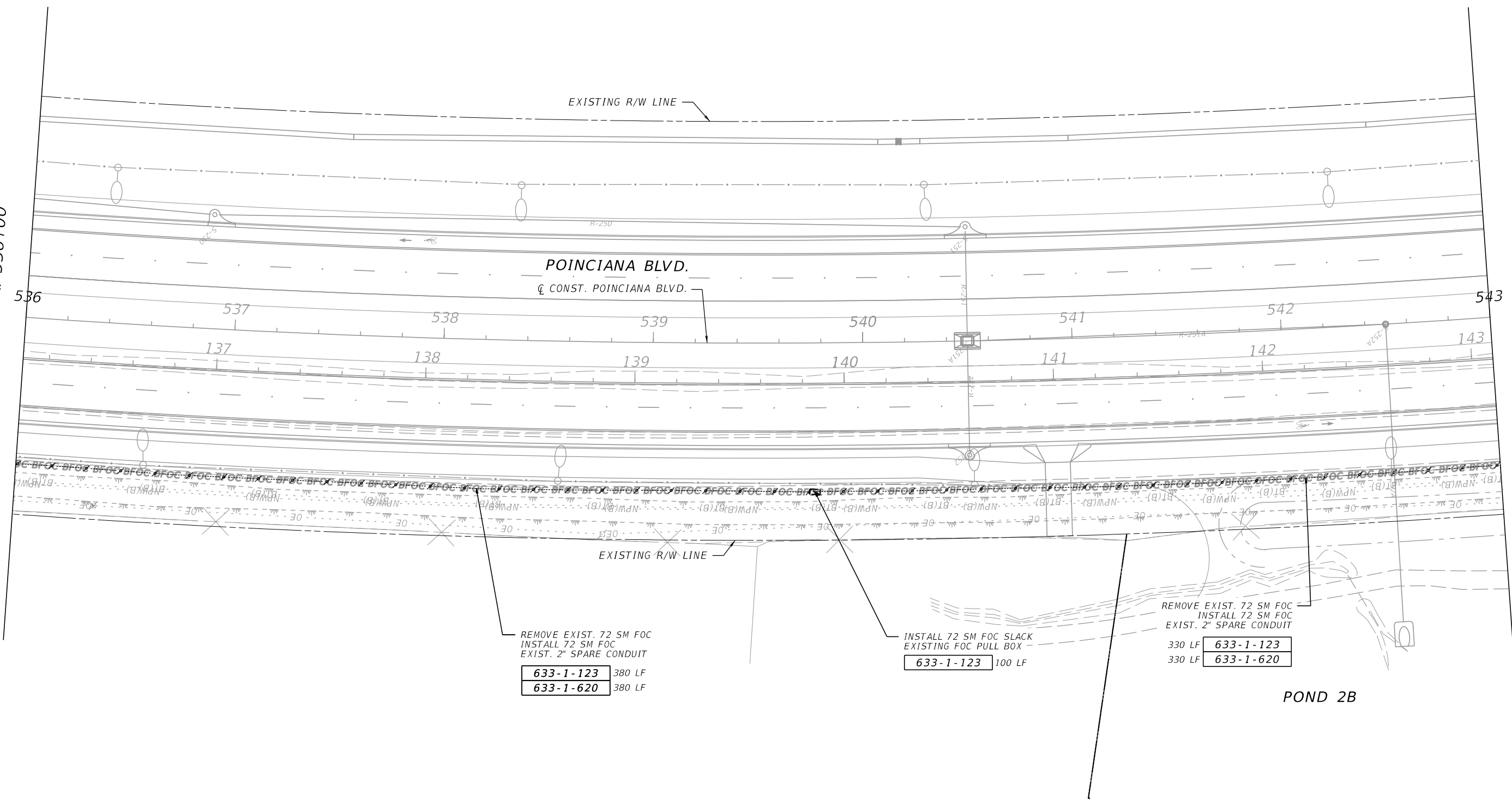
SHEET NO.
 IT-32

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MATCHLINE STA. 536+00

MATCHLINE STA. 543+00



REVISIONS			
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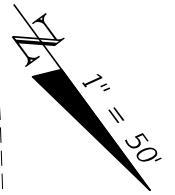
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ITS PLANS (20)

SHEET NO.
 IT-33

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INSTALL
S. POINCIANA-OSC-549-SB-POLE
S. POINCIANA-OSC-549-SB-CCTV
S. POINCIANA-OSC-549-SB-LHUB
DISCONNECT
UPS
RPMU

1 EA	633-3-12
1 EA	633-3-15
1 EA	639-3-11
1 EA	641-3-163
1 EA	676-2-122
1 EA	682-1-113
1 EA	684-1-1
1 EA	685-1-11
1 EA	685-2-1

INSTALL
OPEN TRENCH
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (3-#6 (120V))
1-2" CONDUIT (SPARE)

10 LF	630-2-12
10 LF	633-1-121
10 LF	639-2-1

INSTALL
OPEN TRENCH
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (SPARE)

17 LF	630-2-11
17 LF	633-1-121

INSTALL
FIBER SLACK
ELECTRIC PULL BOX
FIBER PULL BOX

100 LF	633-1-121
1 EA	635-2-11
1 EA	635-2-12

INSTALL
DIRECTIONAL BORE
1-2" CONDUIT (3-#6 (120V))
1-2" CONDUIT (SPARE)

170 LF	630-2-12
170 LF	639-2-1

REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
EXIST. 2" SPARE CONDUIT

700 LF	633-1-123
700 LF	633-1-620

INSTALL
ELECTRIC PULL BOX

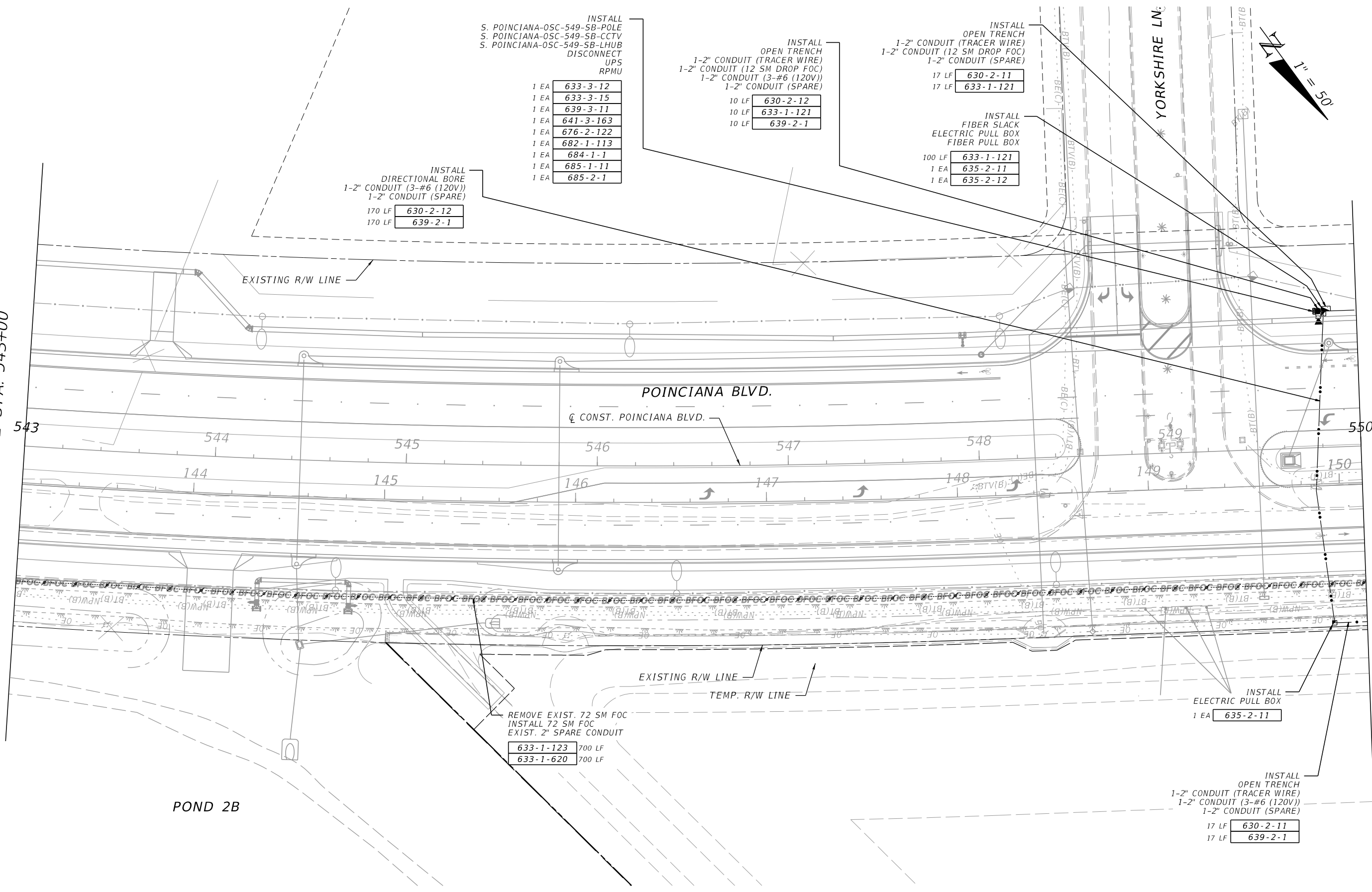
1 EA	635-2-11
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INSTALL
OPEN TRENCH
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (3-#6 (120V))
1-2" CONDUIT (SPARE)

17 LF	630-2-11
17 LF	639-2-1

MATCHLINE STA. 543+00

MATCHLINE STA. 550+00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ALTAMONTE SPRINGS, FLORIDA 32714

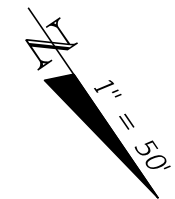


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ITS PLANS (21)

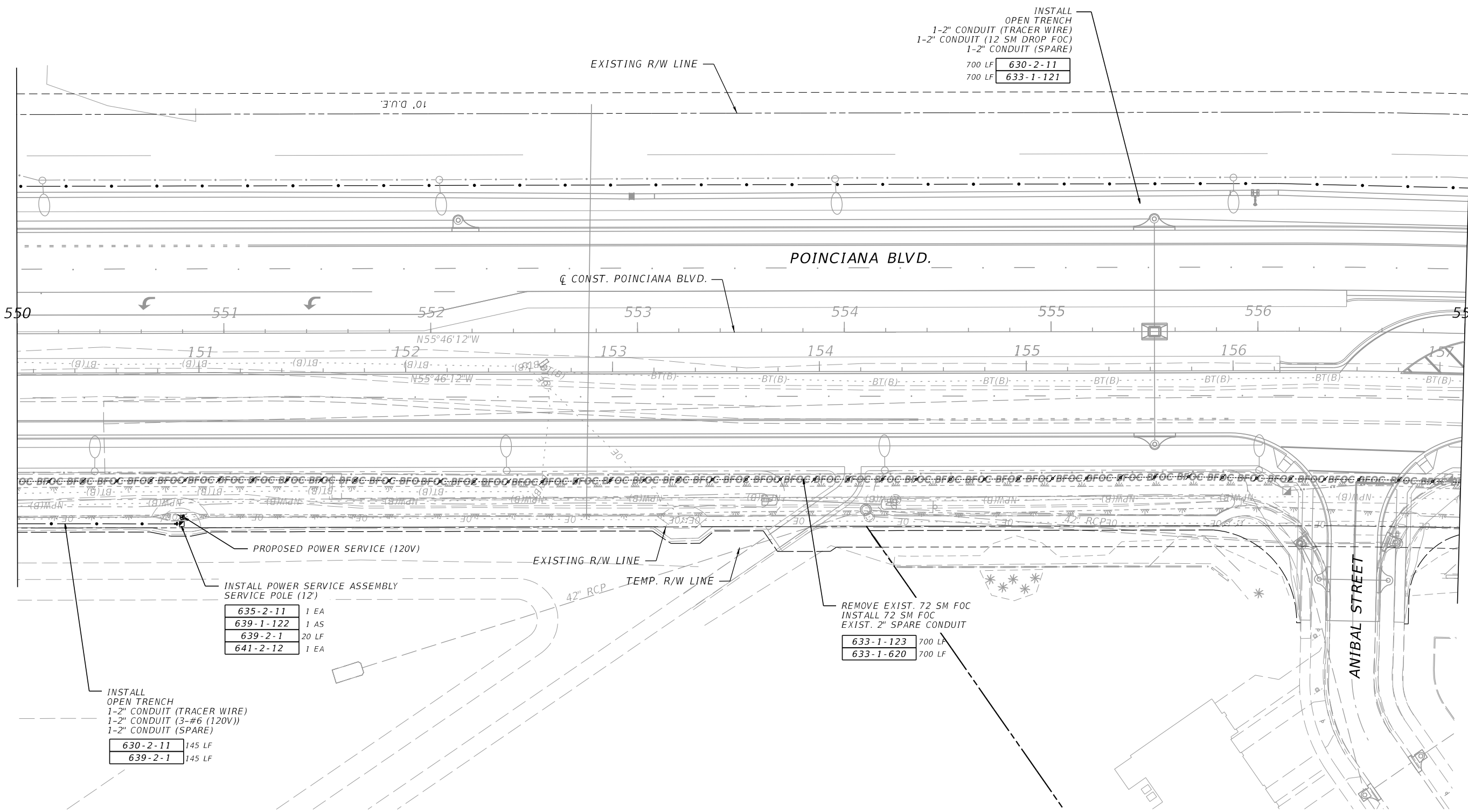
SHEET NO.
IT-34

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MATCHLINE STA. 550+00

MATCHLINE STA. 557+00



INSTALL
OPEN TRENCH
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (SPARE)
700 LF **630-2-11**
700 LF **633-1-121**


INSTALL POWER SERVICE ASSEMBLY
SERVICE POLE (12')
635-2-11 1 EA
639-1-122 1 AS
639-2-1 20 LF
641-2-12 1 EA

INSTALL
OPEN TRENCH
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (3-#6 (120V))
1-2" CONDUIT (SPARE)
630-2-11 145 LF
639-2-1 145 LF

REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
EXIST. 2" SPARE CONDUIT
633-1-123 700 LF
633-1-620 700 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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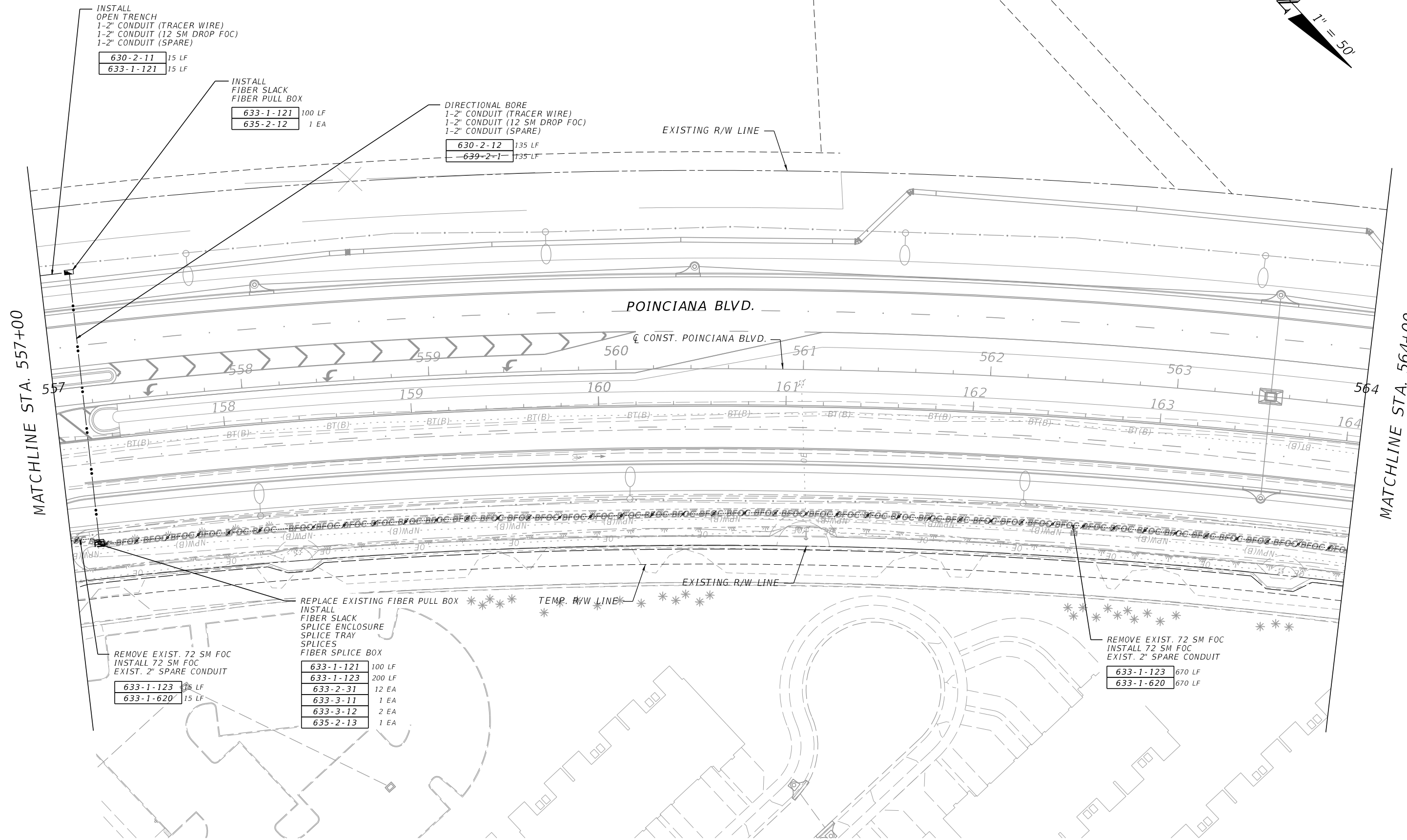
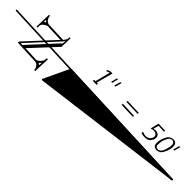


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SHEET NO.
IT-35

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MATCHLINE STA. 557+00

MATCHLINE STA. 564+00

INSTALL
OPEN TRENCH
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (SPARE)

630-2-11	15 LF
633-1-121	15 LF

INSTALL
FIBER SLACK
FIBER PULL BOX

633-1-121	100 LF
635-2-12	1 EA

DIRECTIONAL BORE
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (SPARE)

630-2-12	135 LF
639-2-1	135 LF

REPLACE EXISTING FIBER PULL BOX
INSTALL
FIBER SLACK
SPlice ENCLOSURE
SPlice TRAY
SPlices
FIBER SPlice BOX

633-1-121	100 LF
633-1-123	200 LF
633-2-31	12 EA
633-3-11	1 EA
633-3-12	2 EA
635-2-13	1 EA

REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
EXIST. 2" SPARE CONDUIT


633-1-123	15 LF
633-1-620	15 LF

REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
EXIST. 2" SPARE CONDUIT

633-1-123	670 LF
633-1-620	670 LF

REVISIONS		DATE	DESCRIPTION
DATE	DESCRIPTION	DATE	DESCRIPTION

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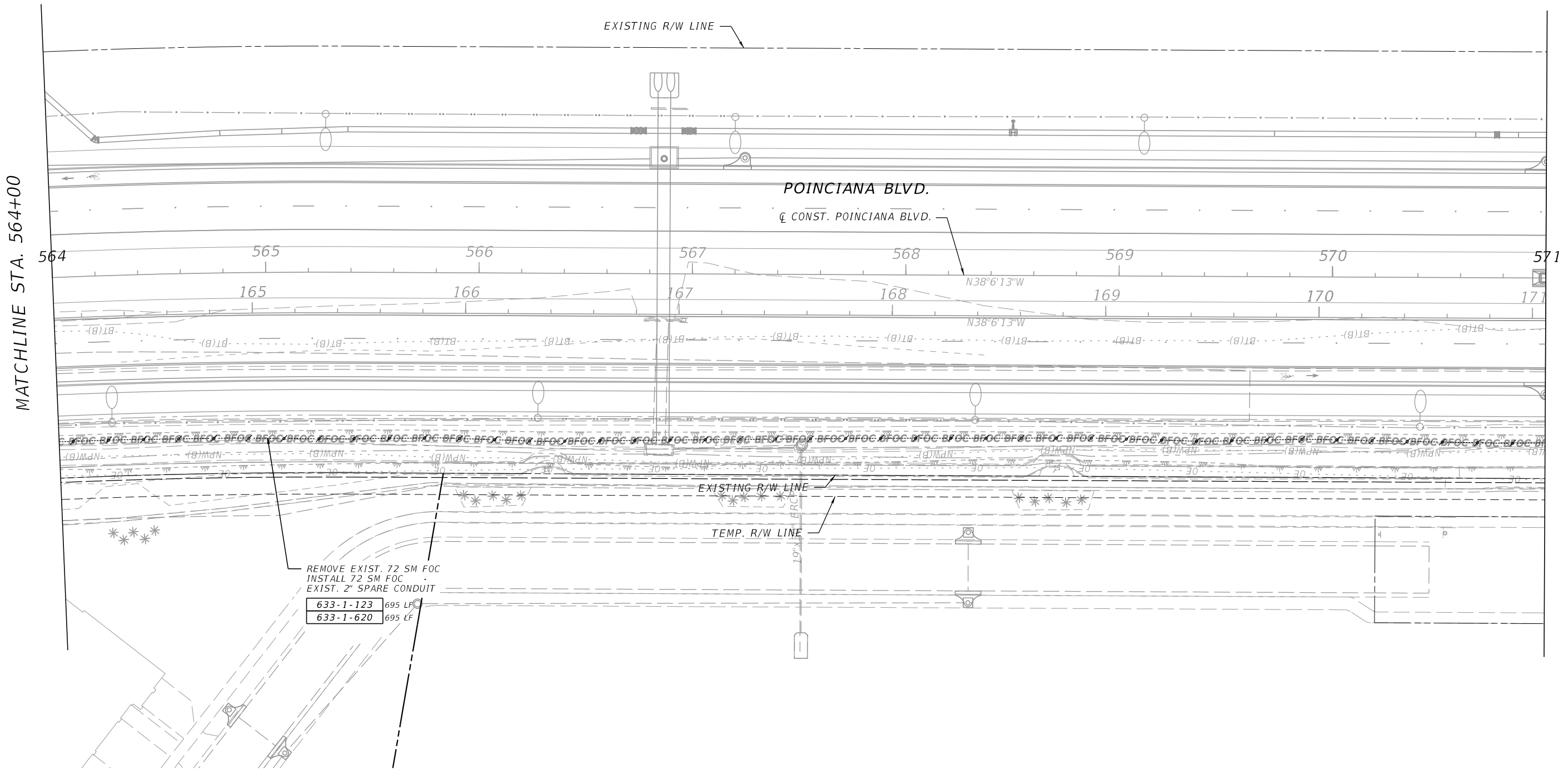
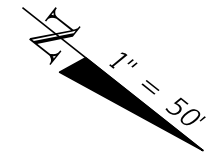


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ITS PLANS (23)

SHEET NO.
IT-36

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MATCHLINE STA. 564+00

MATCHLINE STA. 571+00

REVISIONS			
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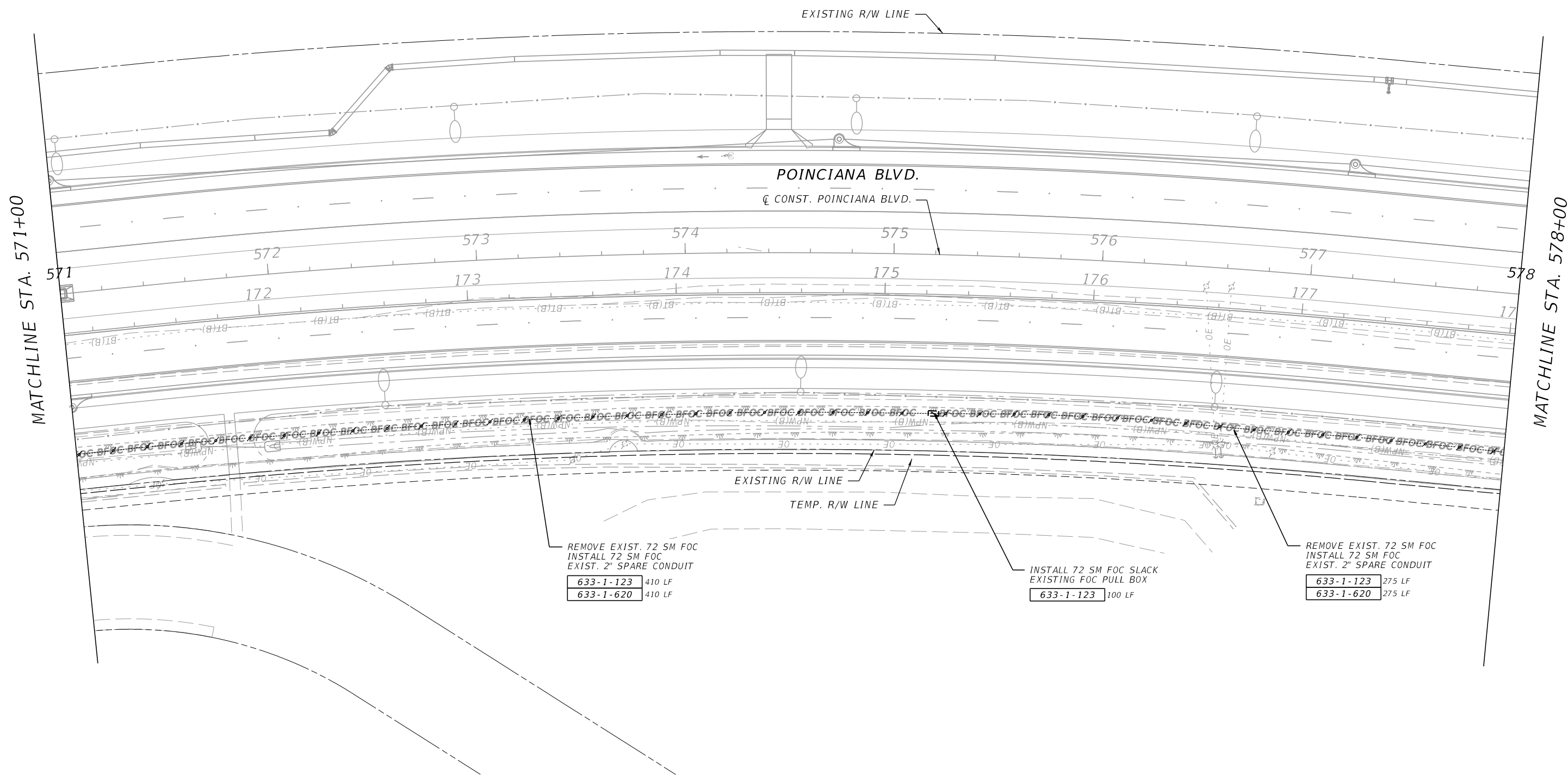
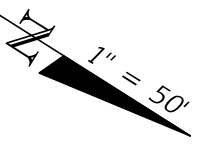


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ITS PLANS (24)

SHEET NO.
 IT-37

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REMOVE EXIST. 72 SM FOC
 INSTALL 72 SM FOC
 EXIST. 2" SPARE CONDUIT

633-1-123	410 LF
633-1-620	410 LF

INSTALL 72 SM FOC SLACK
 EXISTING FOC PULL BOX


633-1-123	100 LF
-----------	--------

REMOVE EXIST. 72 SM FOC
 INSTALL 72 SM FOC
 EXIST. 2" SPARE CONDUIT

633-1-123	275 LF
633-1-620	275 LF

REVISIONS			
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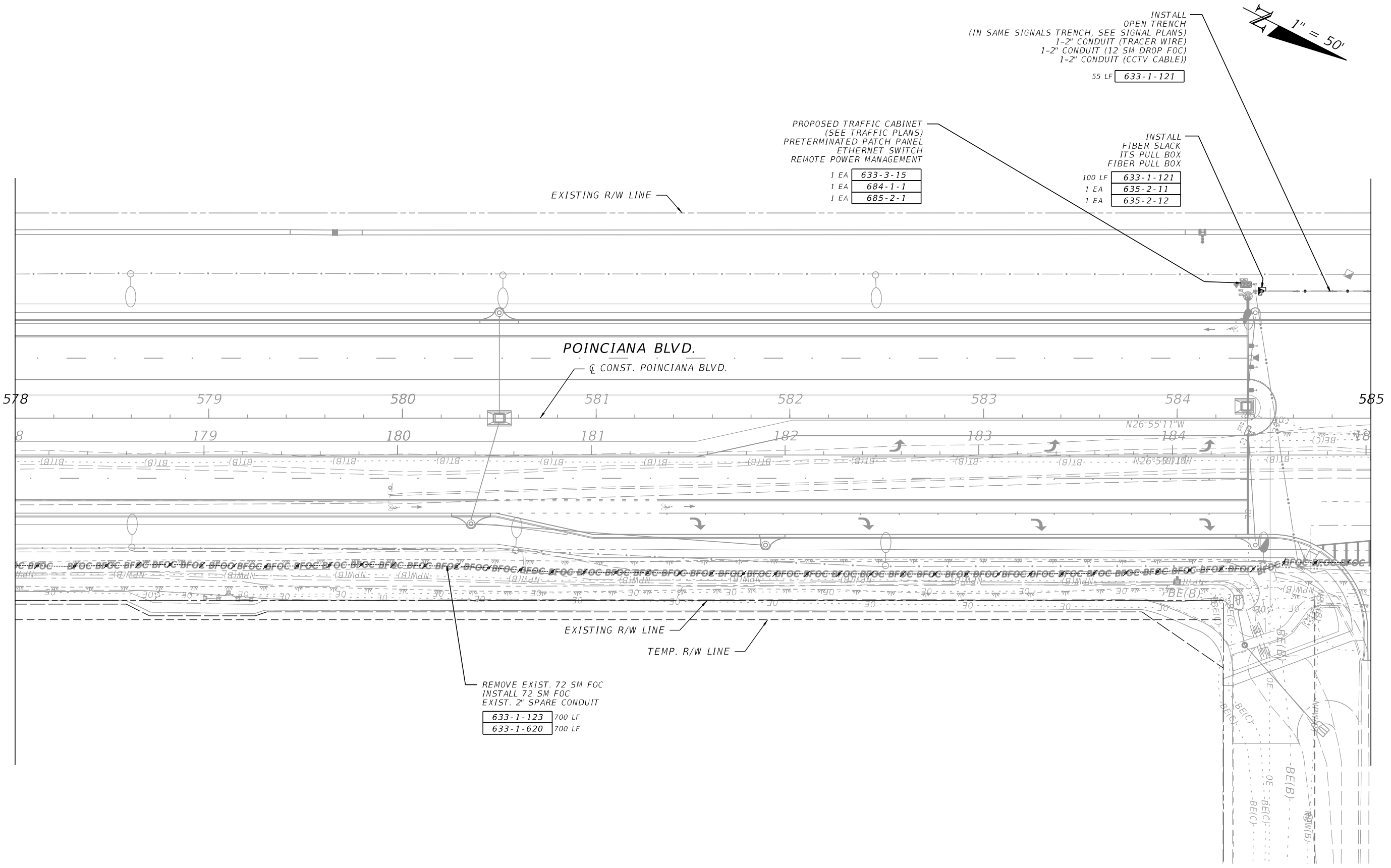
ITS PLANS (25)

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MATCHLINE STA. 578+00

MATCHLINE STA. 585+00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

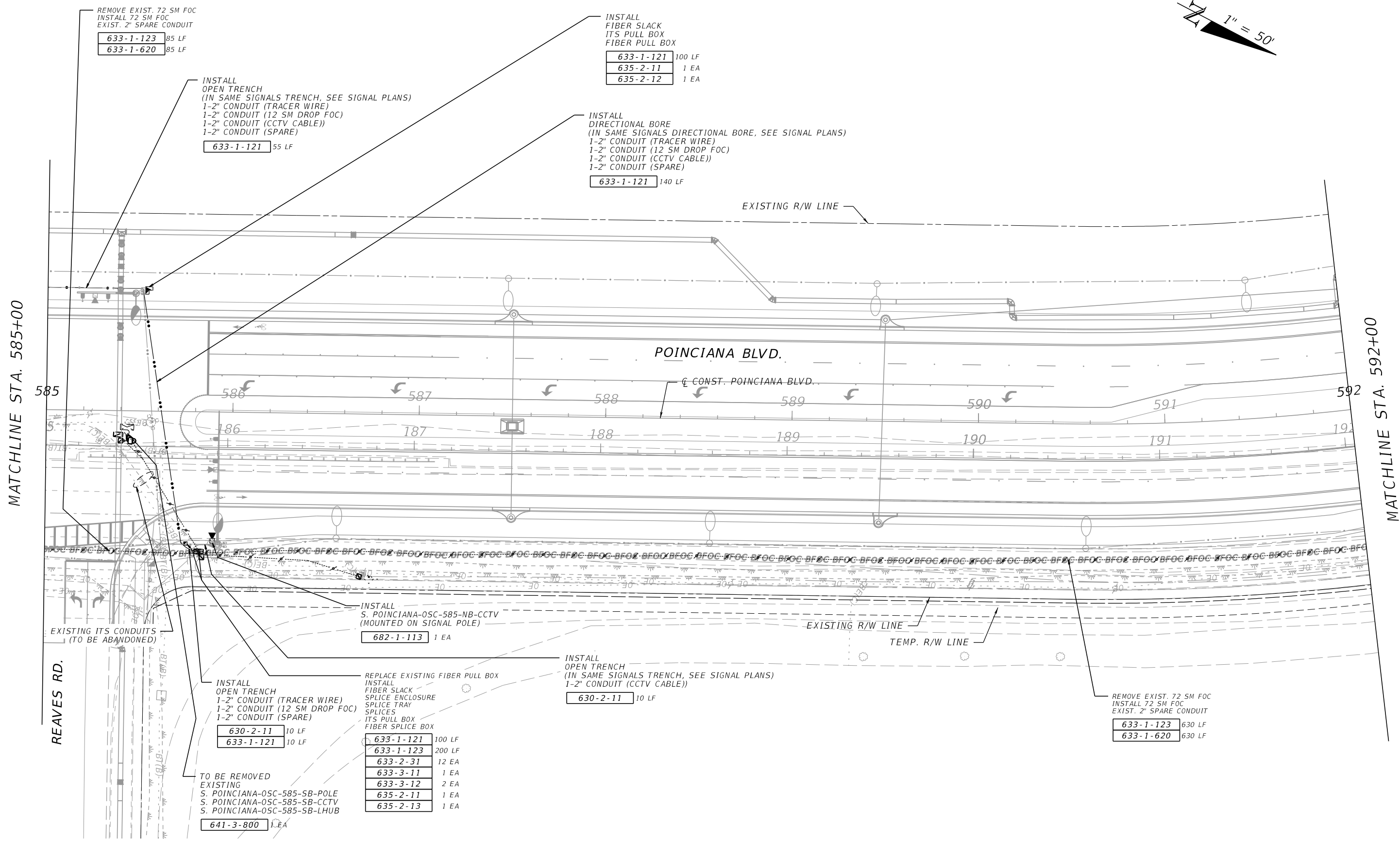
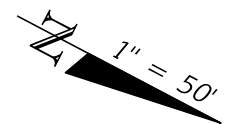
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ITS PLANS (26)

SHEET NO.
IT-39

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REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
EXIST. 2" SPARE CONDUIT
633-1-123 85 LF
633-1-620 85 LF

INSTALL
FIBER SLACK
ITS PULL BOX
FIBER PULL BOX
633-1-121 100 LF
635-2-11 1 EA
635-2-12 1 EA

INSTALL
OPEN TRENCH
(IN SAME SIGNALS TRENCH, SEE SIGNAL PLANS)
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (CCTV CABLE)
1-2" CONDUIT (SPARE)
633-1-121 55 LF

INSTALL
DIRECTIONAL BORE
(IN SAME SIGNALS DIRECTIONAL BORE, SEE SIGNAL PLANS)
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (CCTV CABLE)
1-2" CONDUIT (SPARE)
633-1-121 140 LF

MATCHLINE STA. 585+00

MATCHLINE STA. 592+00

POINCIANA BLVD.

CONST. POINCIANA BLVD.

585 586 587 588 589 590 591 592
186 187 188 189 190 191 192

EXISTING ITS CONDUITS
(TO BE ABANDONED)

INSTALL
S. POINCIANA-OSC-585-NB-CCTV
(MOUNTED ON SIGNAL POLE)
682-1-113 1 EA

INSTALL
OPEN TRENCH
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (SPARE)
630-2-11 10 LF
633-1-121 10 LF

REPLACE EXISTING FIBER PULL BOX
INSTALL
FIBER SLACK
SPICE ENCLOSURE
SPICE TRAY
SPICES
ITS PULL BOX
FIBER SPLICE BOX
633-1-121 100 LF
633-1-123 200 LF
633-2-31 12 EA
633-3-11 1 EA
633-3-12 2 EA
635-2-11 1 EA
635-2-13 1 EA

INSTALL
OPEN TRENCH
(IN SAME SIGNALS TRENCH, SEE SIGNAL PLANS)
1-2" CONDUIT (CCTV CABLE)
630-2-11 10 LF

TO BE REMOVED
EXISTING
S. POINCIANA-OSC-585-SB-POLE
S. POINCIANA-OSC-585-SB-CCTV
S. POINCIANA-OSC-585-SB-LHUB
641-3-800 1 EA

REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
EXIST. 2" SPARE CONDUIT
633-1-123 630 LF
633-1-620 630 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ALTAMONTE SPRINGS, FLORIDA 32714

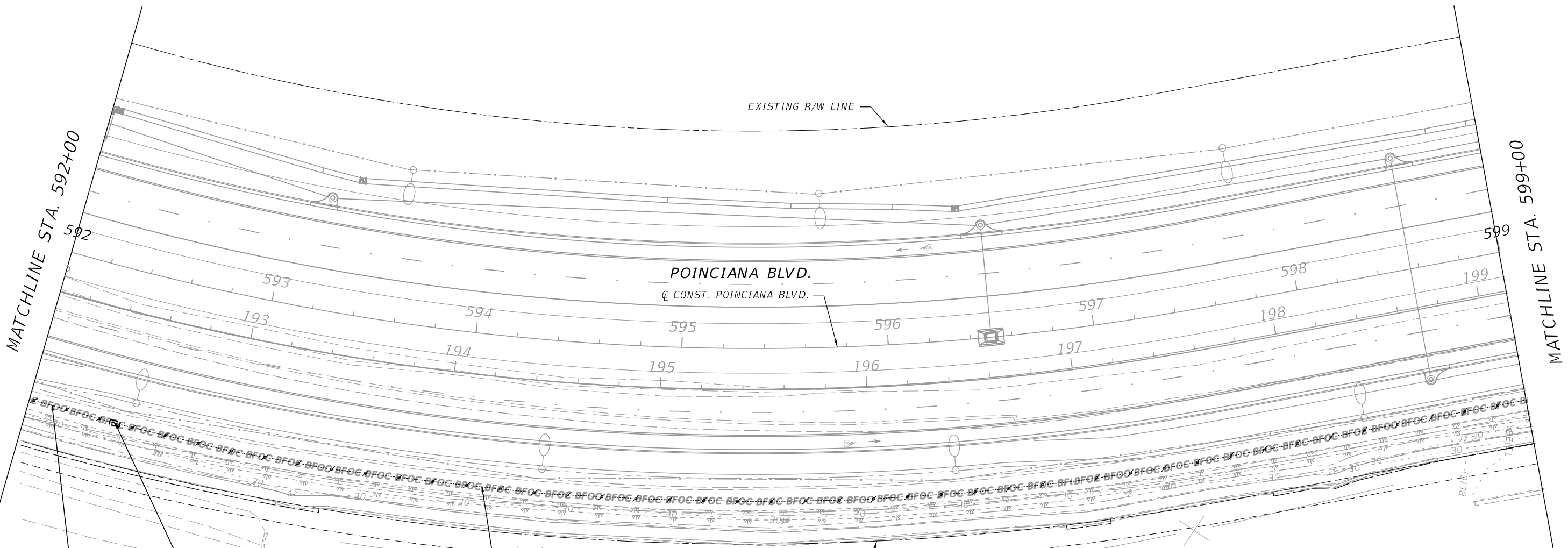
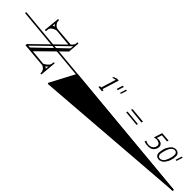


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ITS PLANS (27)

SHEET NO.
IT-40

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REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
EXIST. 2" SPARE CONDUIT

633-1-123	45 LF
633-1-620	45 LF

INSTALL 72 SM FOC SLACK
EXISTING FOC PULL BOX


633-1-123	100 LF
-----------	--------

REMOVE EXIST. 72 SM FOC
INSTALL 72 SM FOC
EXIST. 2" SPARE CONDUIT

633-1-123	690 LF
633-1-620	690 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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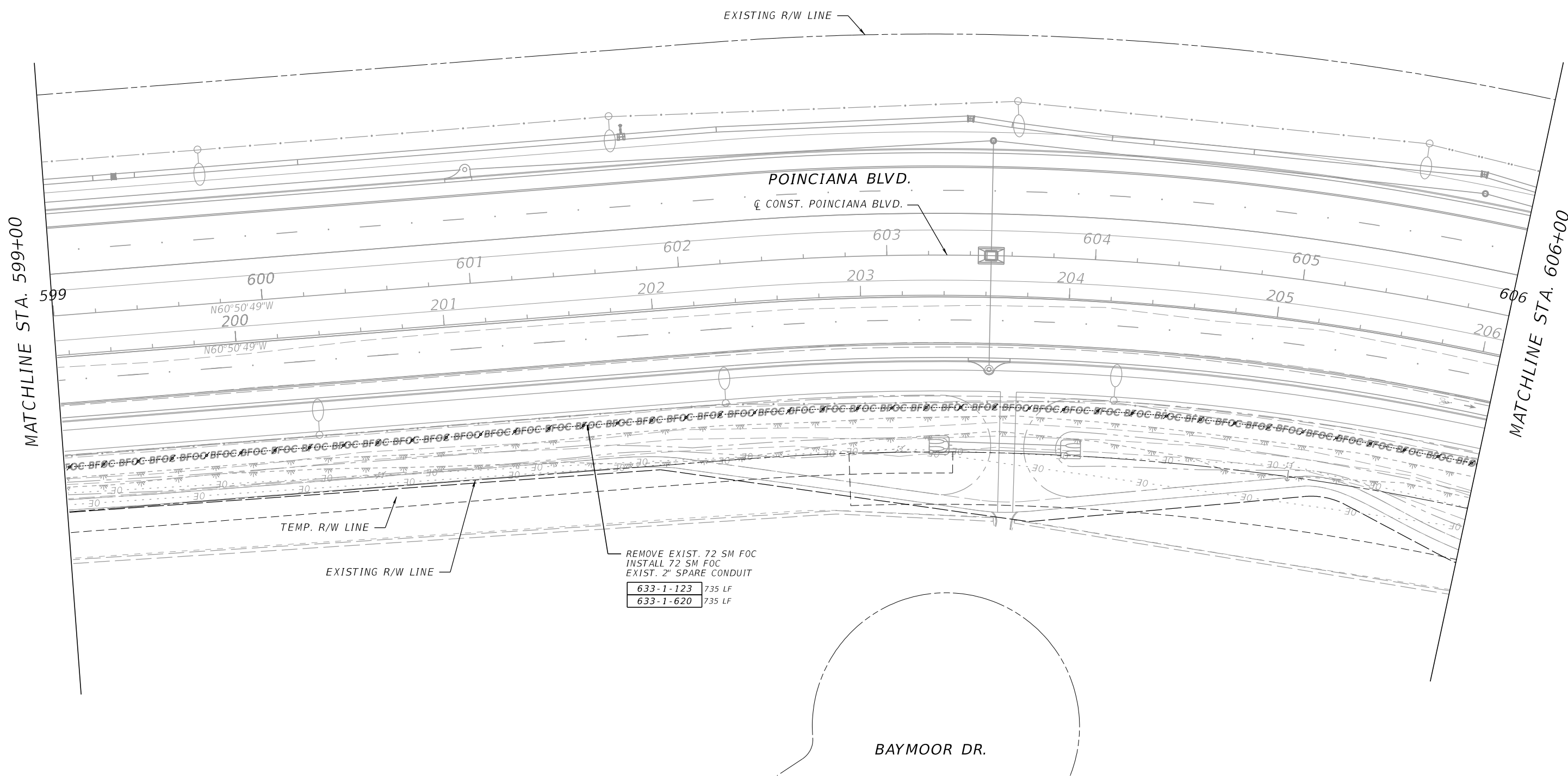


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ITS PLANS (28)

SHEET NO.
IT-41

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REMOVE EXIST. 72 SM FOC
 INSTALL 72 SM FOC
 EXIST. 2" SPARE CONDUIT

633-1-123	735 LF
633-1-620	735 LF


MATCHLINE STA. 599+00

MATCHLINE STA. 606+00

BAYMOOR DR.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

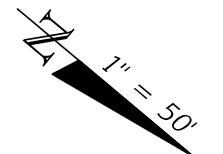
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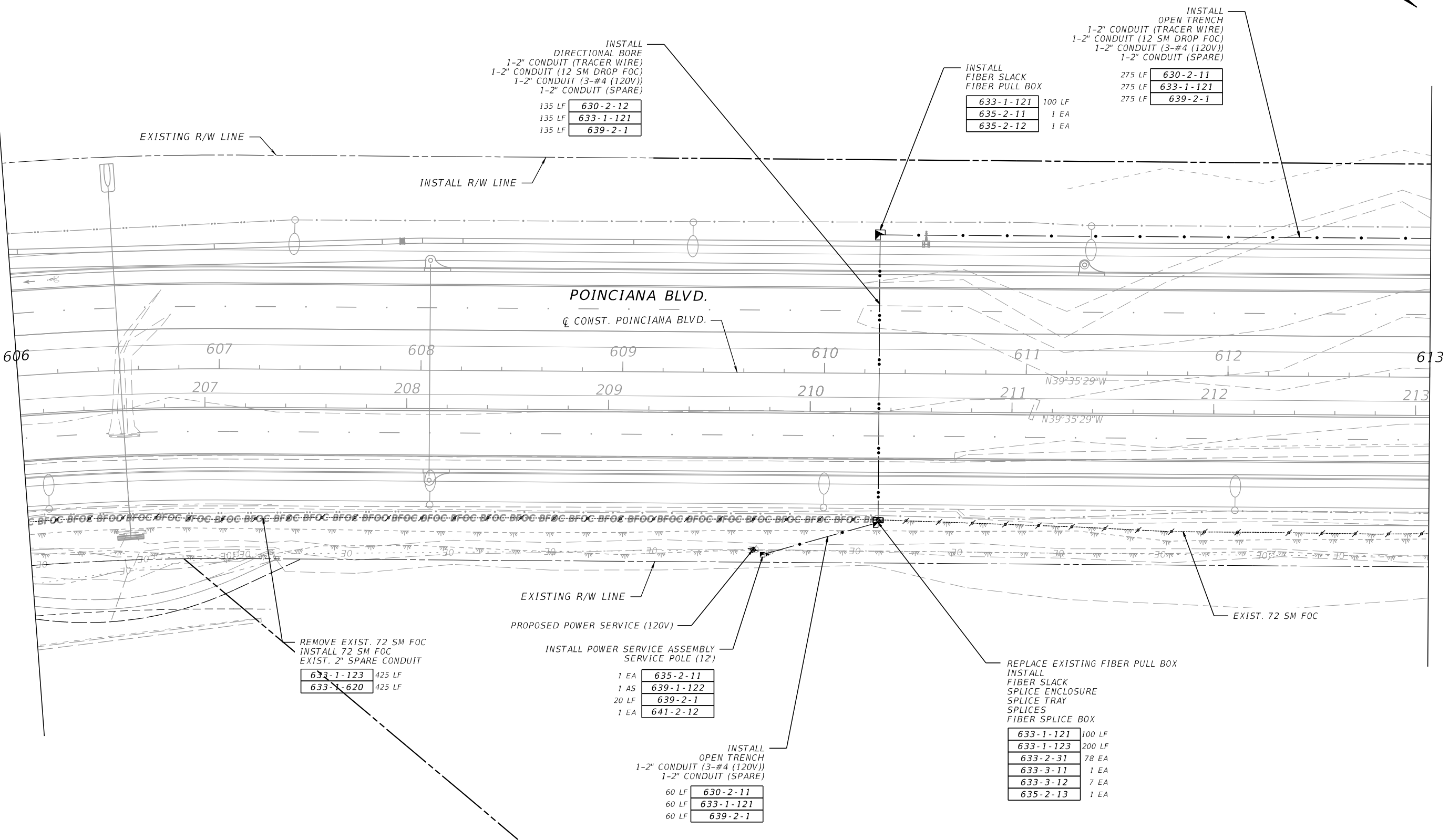
ITS PLANS (29)

SHEET NO.
 IT-42



MATCHLINE STA. 606+00

MATCHLINE STA. 613+00



INSTALL DIRECTIONAL BORE
 1-2" CONDUIT (TRACER WIRE)
 1-2" CONDUIT (12 SM DROP FOC)
 1-2" CONDUIT (3-#4 (120V))
 1-2" CONDUIT (SPARE)

135 LF	630-2-12
135 LF	633-1-121
135 LF	639-2-1

INSTALL FIBER SLACK
 FIBER PULL BOX

633-1-121	100 LF
635-2-11	1 EA
635-2-12	1 EA

INSTALL OPEN TRENCH
 1-2" CONDUIT (TRACER WIRE)
 1-2" CONDUIT (12 SM DROP FOC)
 1-2" CONDUIT (3-#4 (120V))
 1-2" CONDUIT (SPARE)

275 LF	630-2-11
275 LF	633-1-121
275 LF	639-2-1

REMOVE EXIST. 72 SM FOC
 INSTALL 72 SM FOC
 EXIST. 2" SPARE CONDUIT

633-1-123	425 LF
633-1-620	425 LF

INSTALL POWER SERVICE ASSEMBLY
 SERVICE POLE (12')

1 EA	635-2-11
1 AS	639-1-122
20 LF	639-2-1
1 EA	641-2-12

INSTALL OPEN TRENCH
 1-2" CONDUIT (3-#4 (120V))
 1-2" CONDUIT (SPARE)

60 LF	630-2-11
60 LF	633-1-121
60 LF	639-2-1

REPLACE EXISTING FIBER PULL BOX
 INSTALL FIBER SLACK
 SPLICE ENCLOSURE
 SPLICE TRAY
 SPLICES
 FIBER SPLICE BOX

633-1-121	100 LF
633-1-123	200 LF
633-2-31	78 EA
633-3-11	1 EA
633-3-12	7 EA
635-2-13	1 EA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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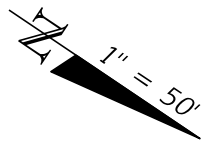


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ITS PLANS (30)

SHEET NO.
 IT-43

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INSTALL
OPEN TRENCH
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (3-#4 (120V))
1-2" CONDUIT (SPARE)

540 LF	630-2-11
540 LF	633-1-121
540 LF	639-2-1

INSTALL
FIBER SLACK
ELECTRIC PULL BOX
FIBER PULL BOX

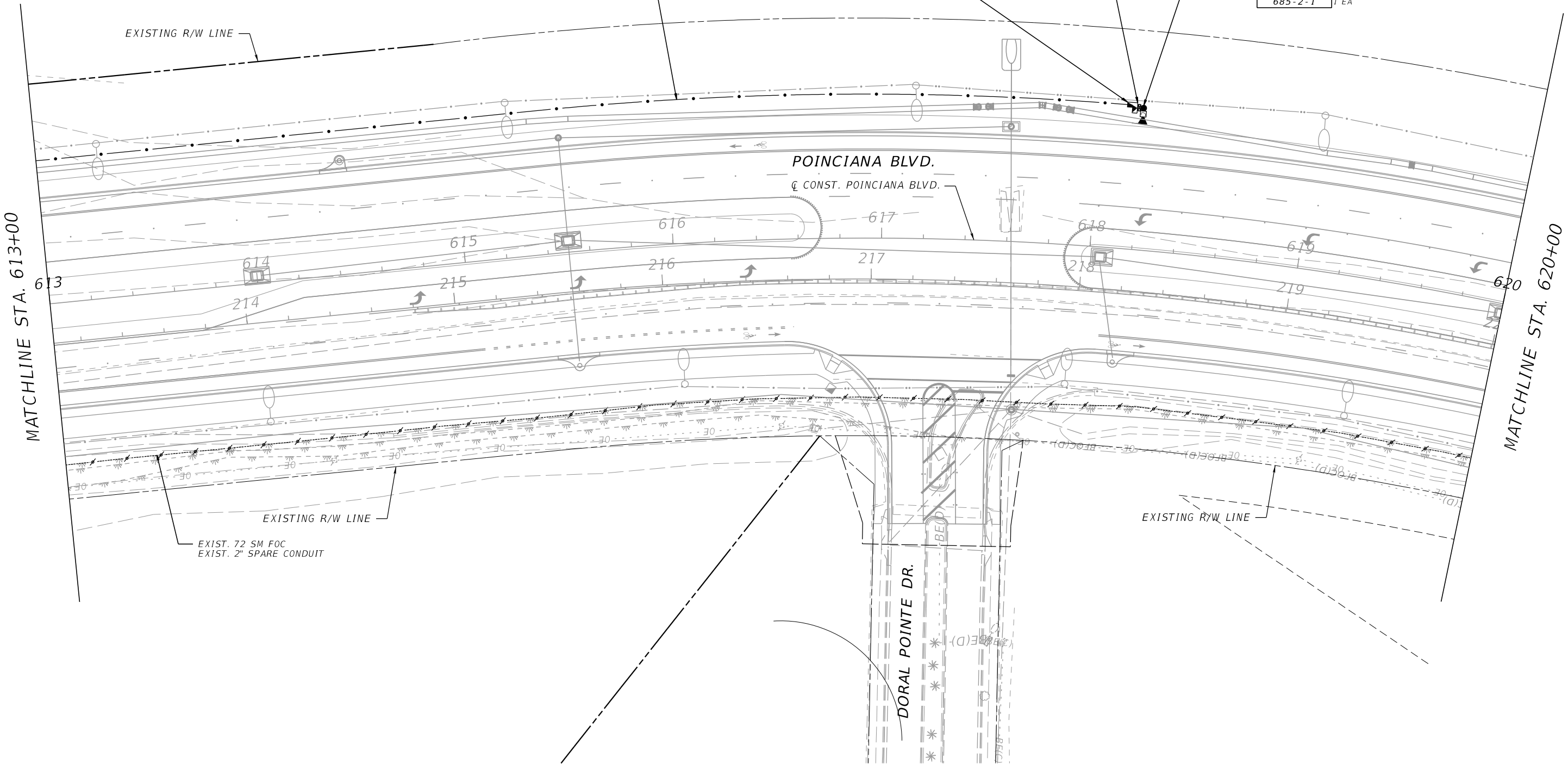
100 LF	633-1-121
1 EA	635-2-11
1 EA	635-2-12

INSTALL
OPEN TRENCH
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (3-#6 (120V))
1-2" CONDUIT (SPARE)

10 LF	630-2-11
10 LF	633-1-121
10 LF	639-2-1

INSTALL
S. POINCIANA-OSC-618-SB-POLE
S. POINCIANA-OSC-618-SB-CCTV
S. POINCIANA-OSC-618-SB-LHUB
DISCONNECT
UPS
RPMU

633-3-12	1 EA
633-3-15	1 EA
639-3-11	1 EA
641-3-163	1 EA
676-2-122	1 EA
682-1-113	1 EA
684-1-1	1 EA
685-1-11	1 EA
685-2-1	1 EA



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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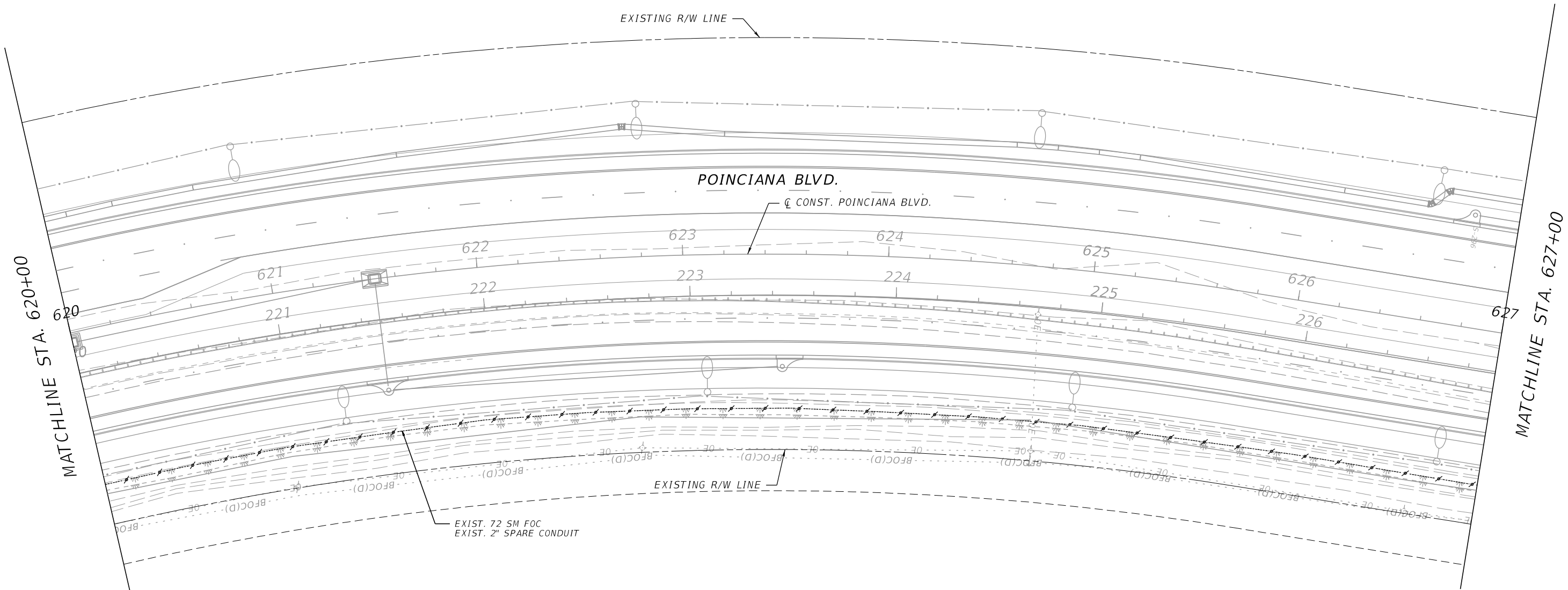
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ITS PLANS (31)

SHEET NO.
IT-44

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1" = 50'



MATCHLINE STA. 627+00

MATCHLINE STA. 620+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

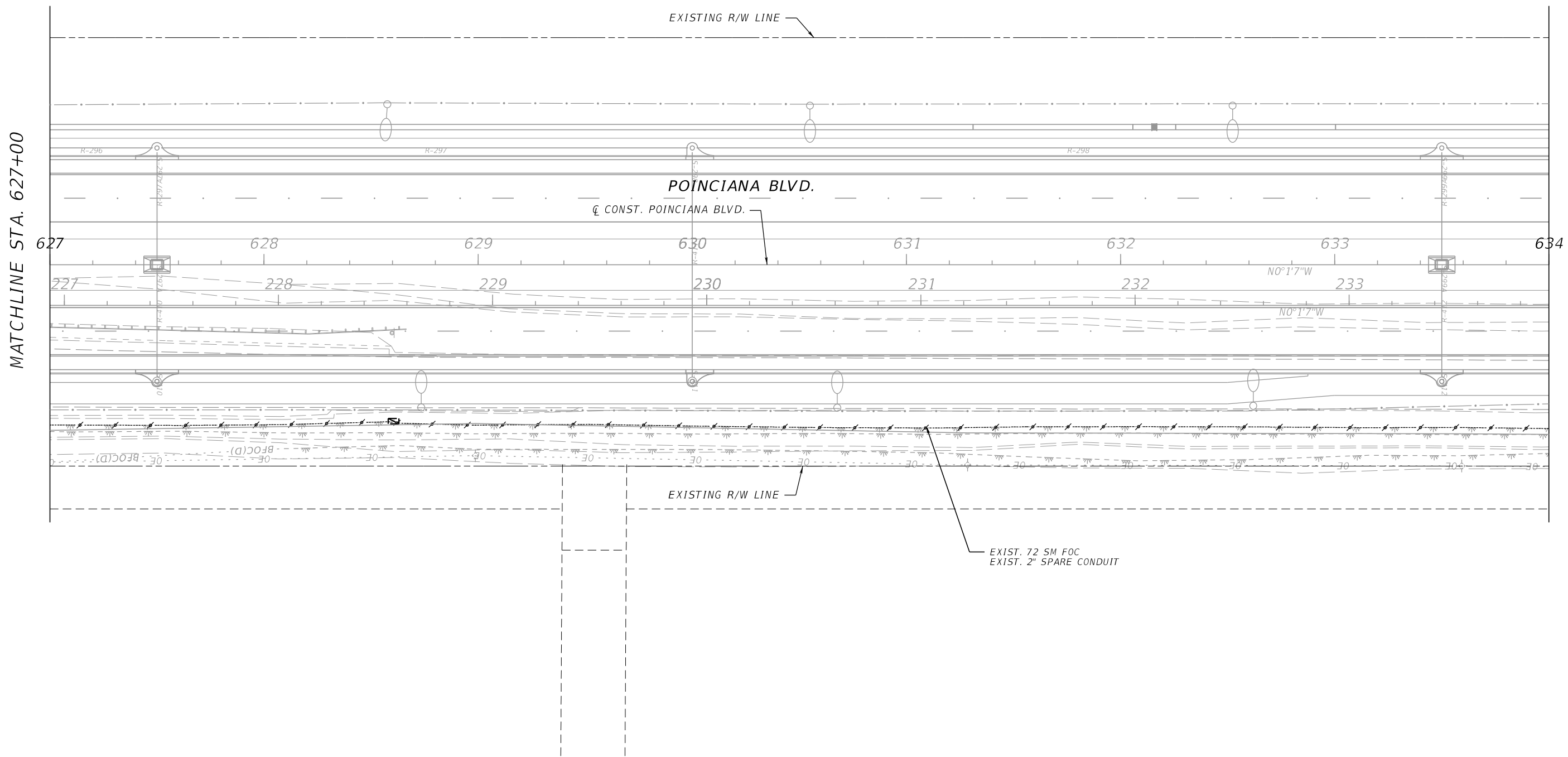
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ITS PLANS (32)

SHEET NO.
 IT-45

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MATCHLINE STA. 627+00

MATCHLINE STA. 634+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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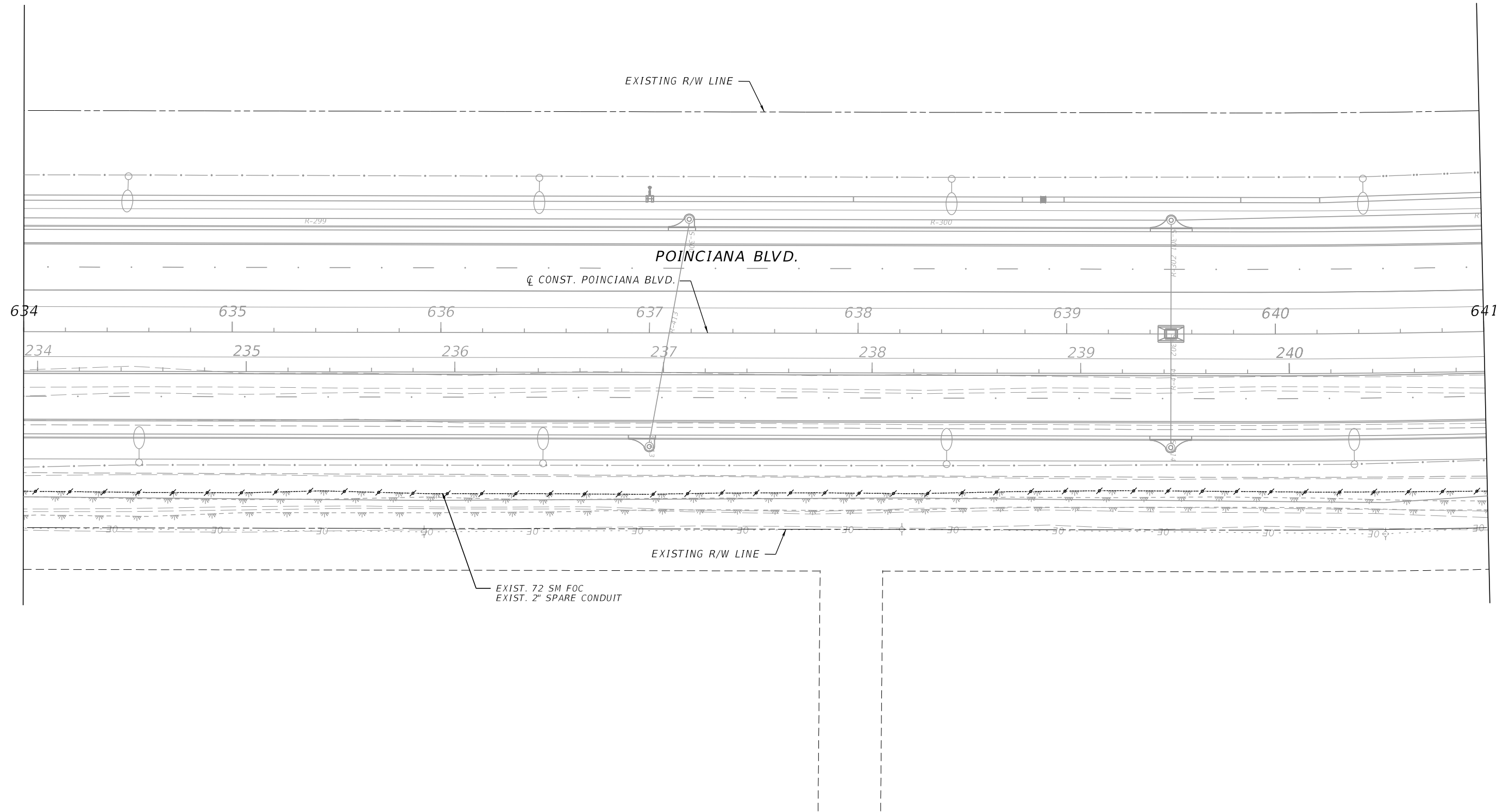
ITS PLANS (33)

SHEET NO.
 IT-46

N 1" = 50'

MATCHLINE STA. 634+00

MATCHLINE STA. 641+00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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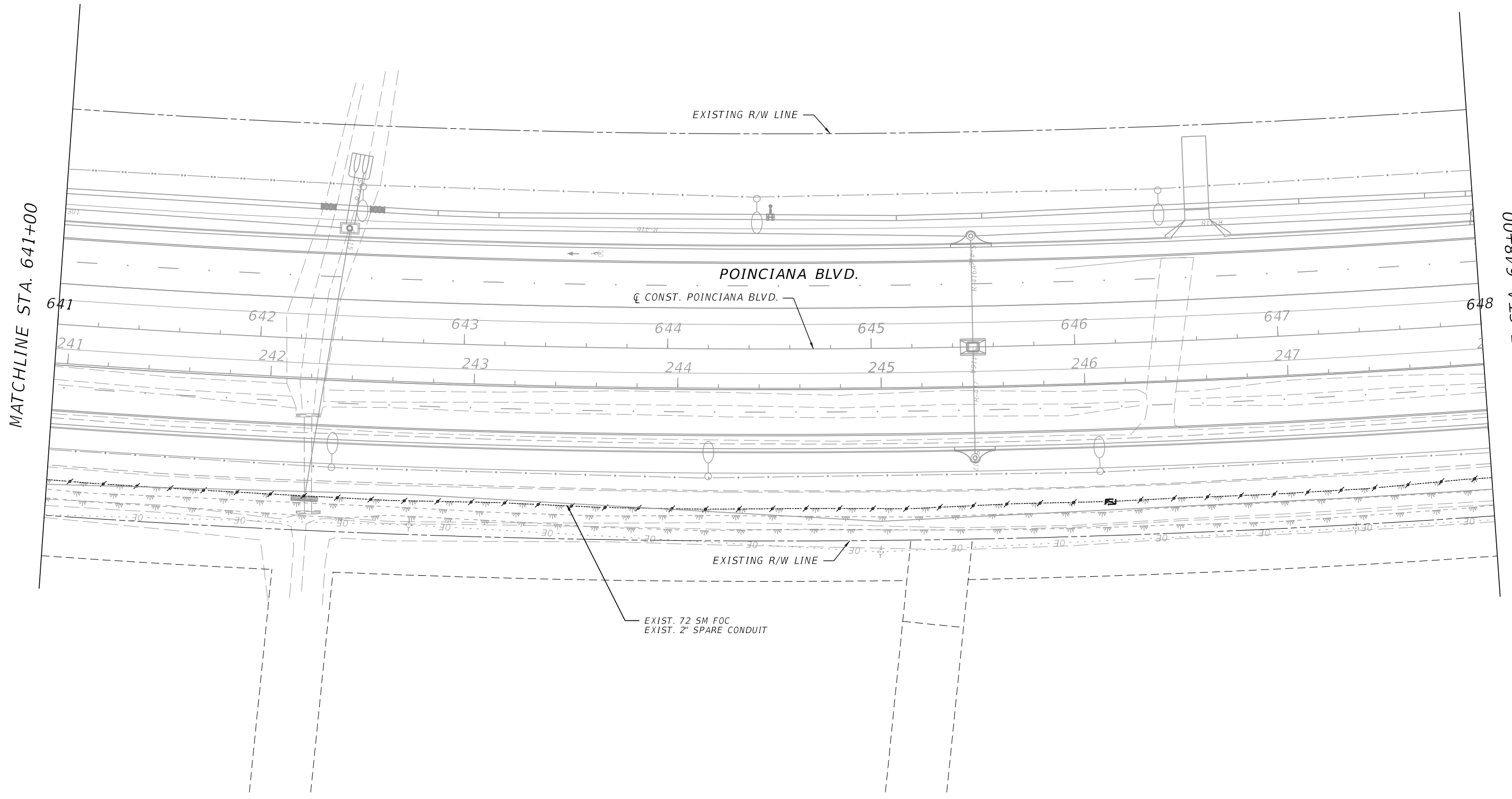
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ITS PLANS (34)

SHEET NO.
 IT-47

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1" = 50'



MATCHLINE STA. 641+00

MATCHLINE STA. 648+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714



OSCEOLA COUNTY
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 1 Courthouse Square, Suite 3100
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ITS PLANS (35)

SHEET NO.
 IT-48

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

1" = 50'

MATCHLINE STA. 648+00

MATCHLINE STA. 655+00

EXISTING R/W LINE

POINCIANA BLVD.

Q CONST. POINCIANA BLVD.

EXISTING R/W LINE

EXIST. 72 SM FOC
EXIST. 2" SPARE CONDUIT

648 649 650 651 652 653 654 655
249 250 251 252 253 254

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E. NO. 58771
BCC ENGINEERING, LLC.
160 N. WESTMONTE DRIVE, SUITE 2000
ALTAMONTE SPRINGS, FLORIDA 32714

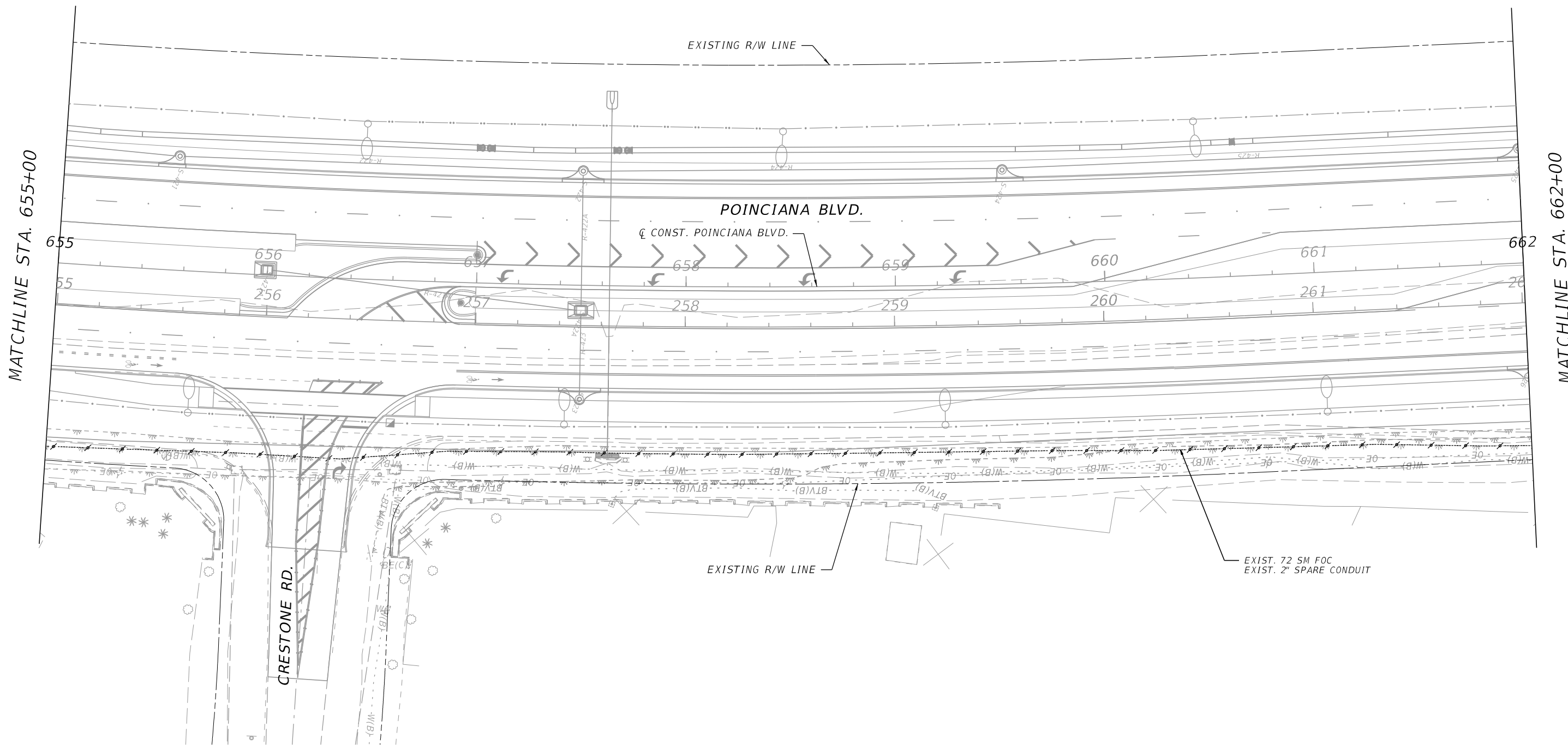
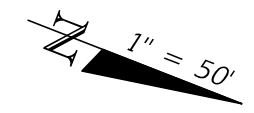


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ITS PLANS (36)

SHEET NO.
IT-49

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MATCHLINE STA. 655+00

MATCHLINE STA. 662+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E. NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714

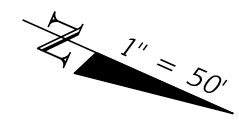


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ITS PLANS (37)

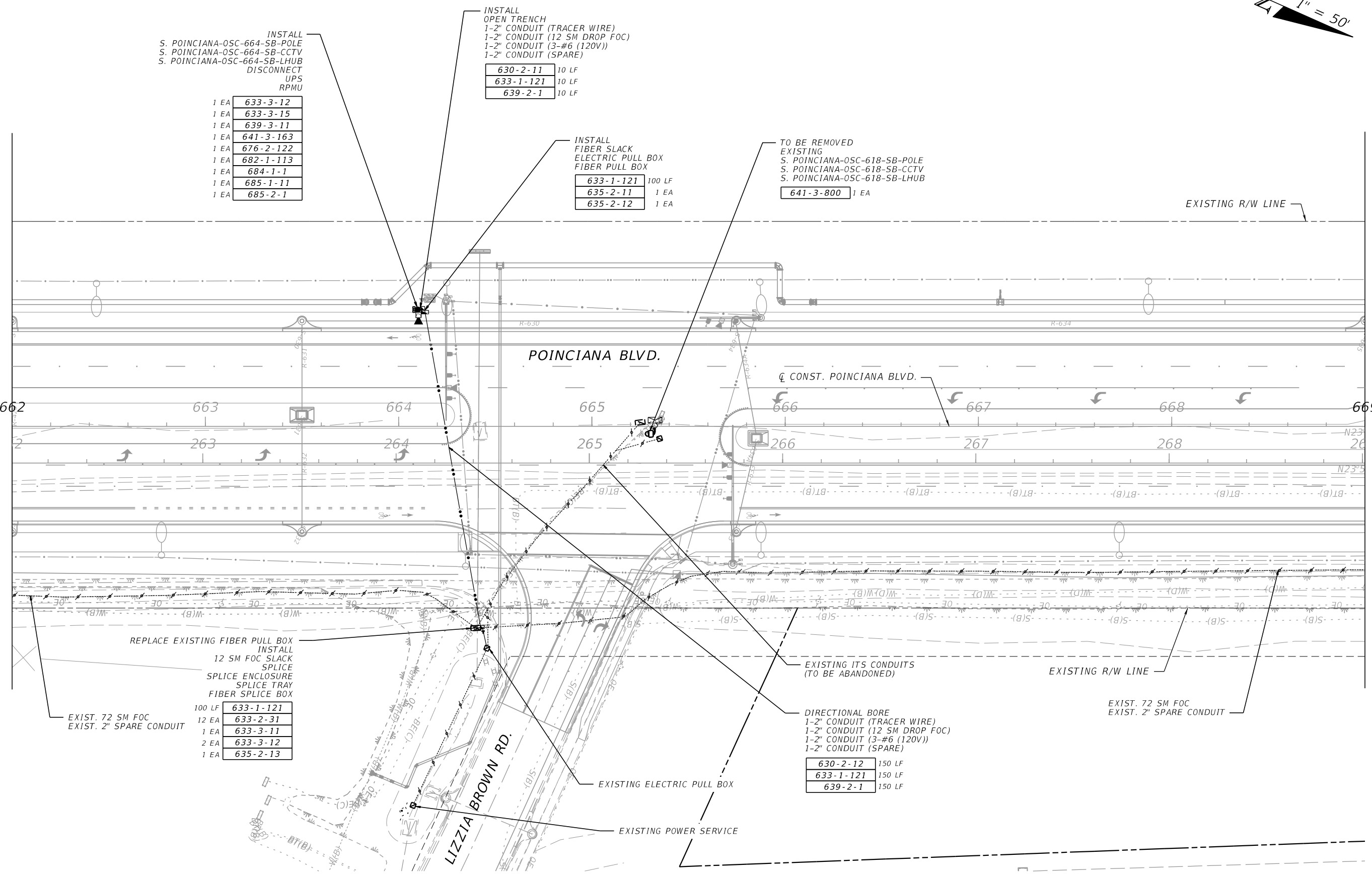
SHEET NO.
 IT-50

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MATCHLINE STA. 662+00

MATCHLINE STA. 669+00



INSTALL
S. POINCIANA-OSC-664-SB-POLE
S. POINCIANA-OSC-664-SB-CCTV
S. POINCIANA-OSC-664-SB-LHUB
DISCONNECT
UPS
RPMU

1 EA	633-3-12
1 EA	633-3-15
1 EA	639-3-11
1 EA	641-3-163
1 EA	676-2-122
1 EA	682-1-113
1 EA	684-1-1
1 EA	685-1-11
1 EA	685-2-1

INSTALL
OPEN TRENCH
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (3-#6 (120V))
1-2" CONDUIT (SPARE)

630-2-11	10 LF
633-1-121	10 LF
639-2-1	10 LF

INSTALL
FIBER SLACK
ELECTRIC PULL BOX
FIBER PULL BOX

633-1-121	100 LF
635-2-11	1 EA
635-2-12	1 EA

TO BE REMOVED
EXISTING
S. POINCIANA-OSC-618-SB-POLE
S. POINCIANA-OSC-618-SB-CCTV
S. POINCIANA-OSC-618-SB-LHUB

641-3-800	1 EA
-----------	------

REPLACE EXISTING FIBER PULL BOX
INSTALL
12 SM FOC SLACK
SPlice
SPlice ENCLOSURE
SPlice TRAY
FIBER SPlice BOX

100 LF	633-1-121
12 EA	633-2-31
1 EA	633-3-11
2 EA	633-3-12
1 EA	635-2-13

EXIST. 72 SM FOC
EXIST. 2" SPARE CONDUIT

EXISTING ITS CONDUITS
(TO BE ABANDONED)


DIRECTIONAL BORE
1-2" CONDUIT (TRACER WIRE)
1-2" CONDUIT (12 SM DROP FOC)
1-2" CONDUIT (3-#6 (120V))
1-2" CONDUIT (SPARE)

630-2-12	150 LF
633-1-121	150 LF
639-2-1	150 LF

EXIST. 72 SM FOC
EXIST. 2" SPARE CONDUIT

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E. NO. 58771
BCC ENGINEERING, LLC.
160 N. WESTMONTE DRIVE, SUITE 2000
ALTAMONTE SPRINGS, FLORIDA 32714

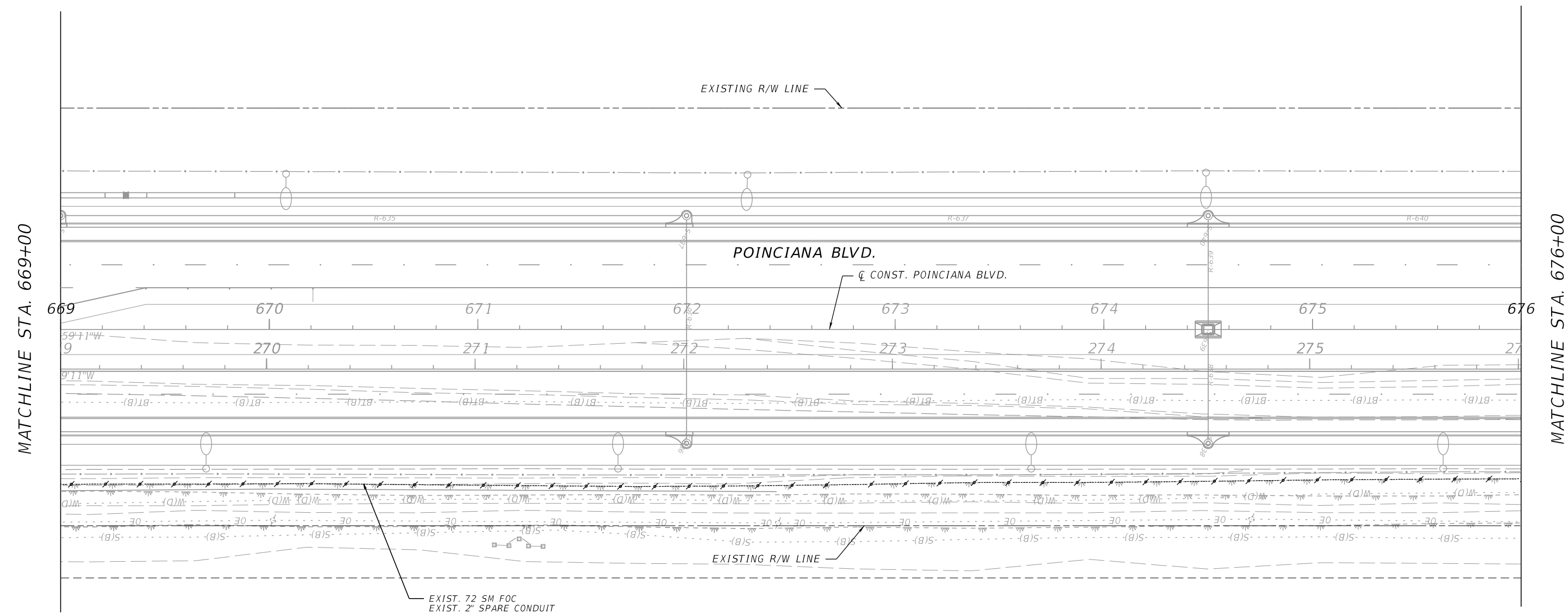
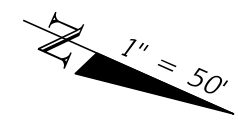


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ITS PLANS (38)

SHEET NO.
IT-51

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MATCHLINE STA. 669+00

MATCHLINE STA. 676+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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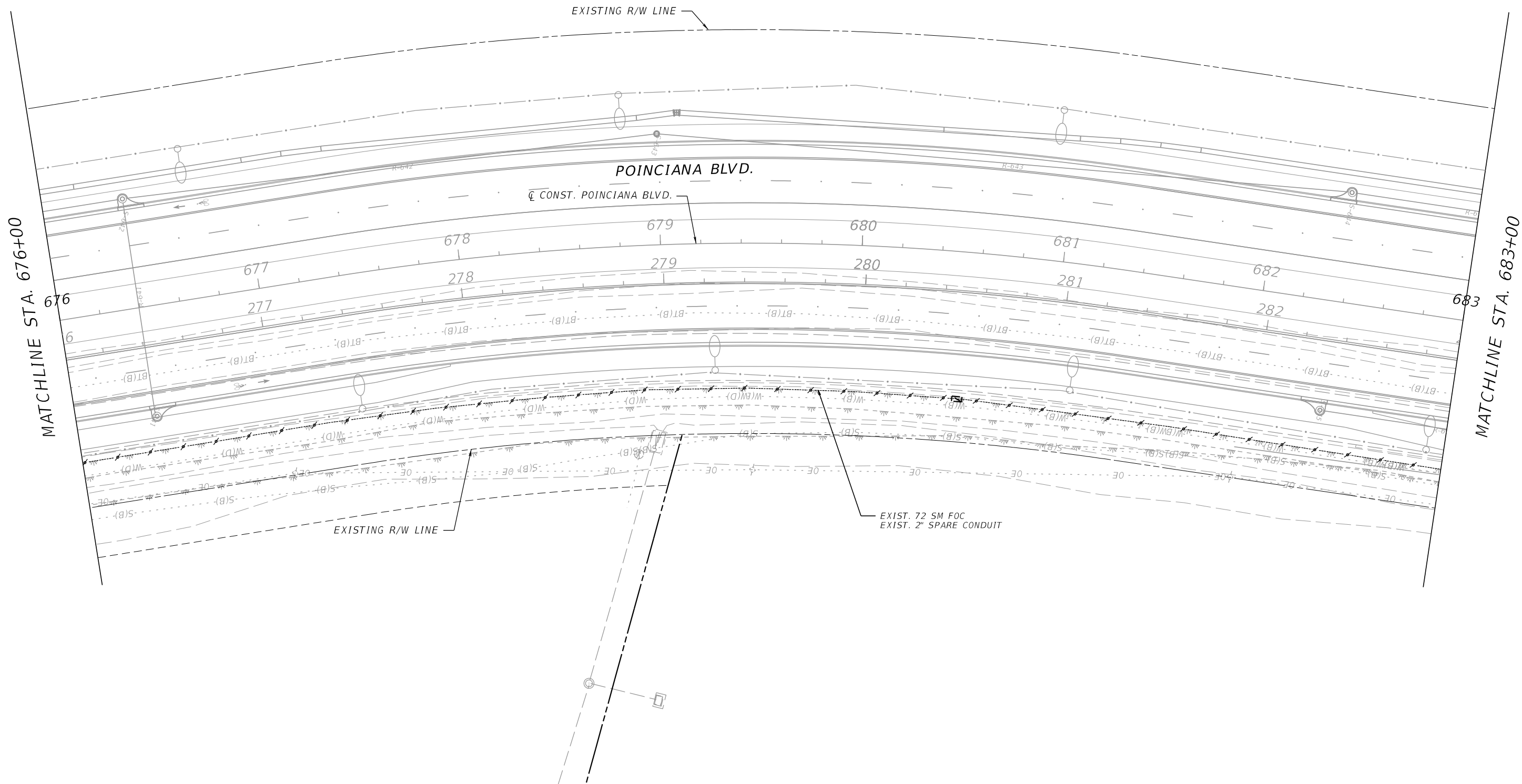
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ITS PLANS (39)

SHEET NO.
 IT-52


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1" = 50'



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 ALTAMONTE SPRINGS, FLORIDA 32714

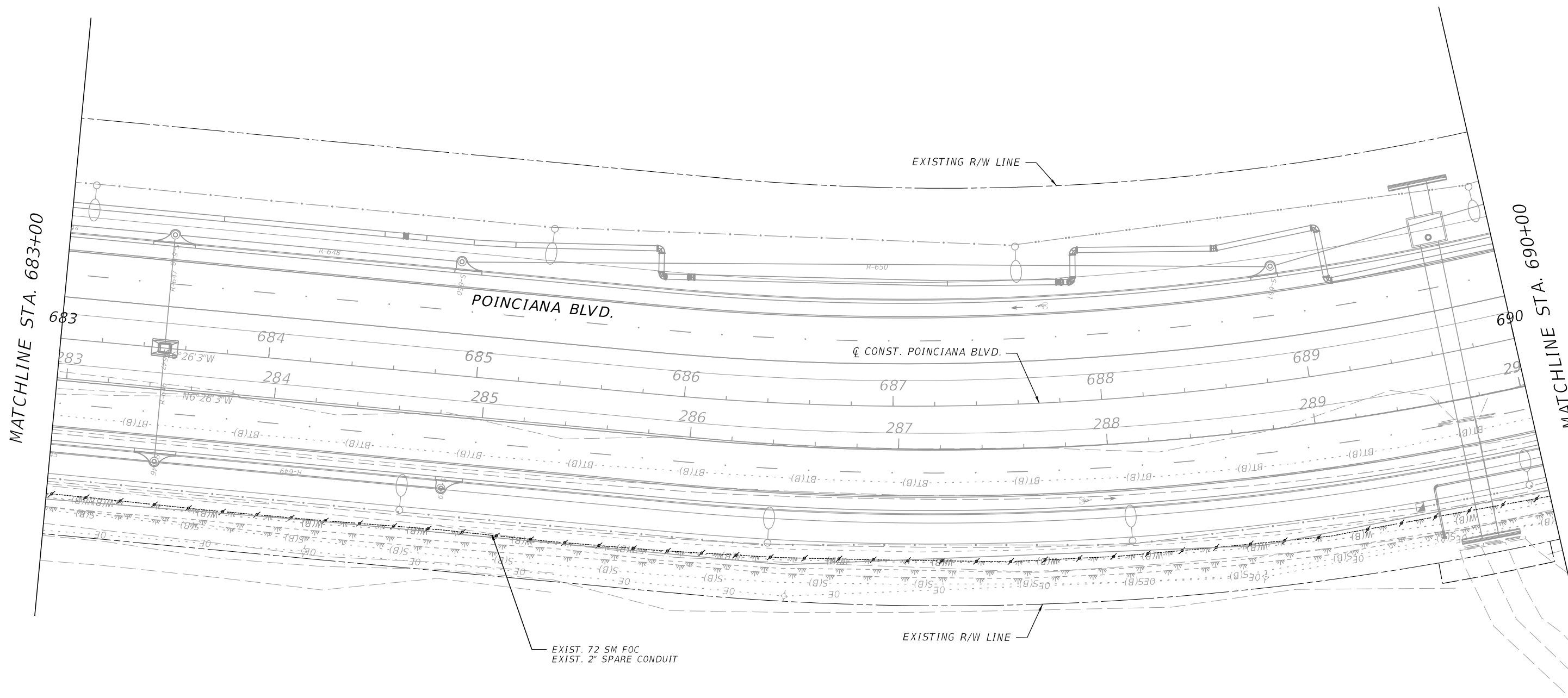
 **OSCEOLA COUNTY**
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ITS PLANS (40)

SHEET NO.
 IT-53

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N 1" = 50'



MATCHLINE STA. 683+00

MATCHLINE STA. 690+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E. NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714

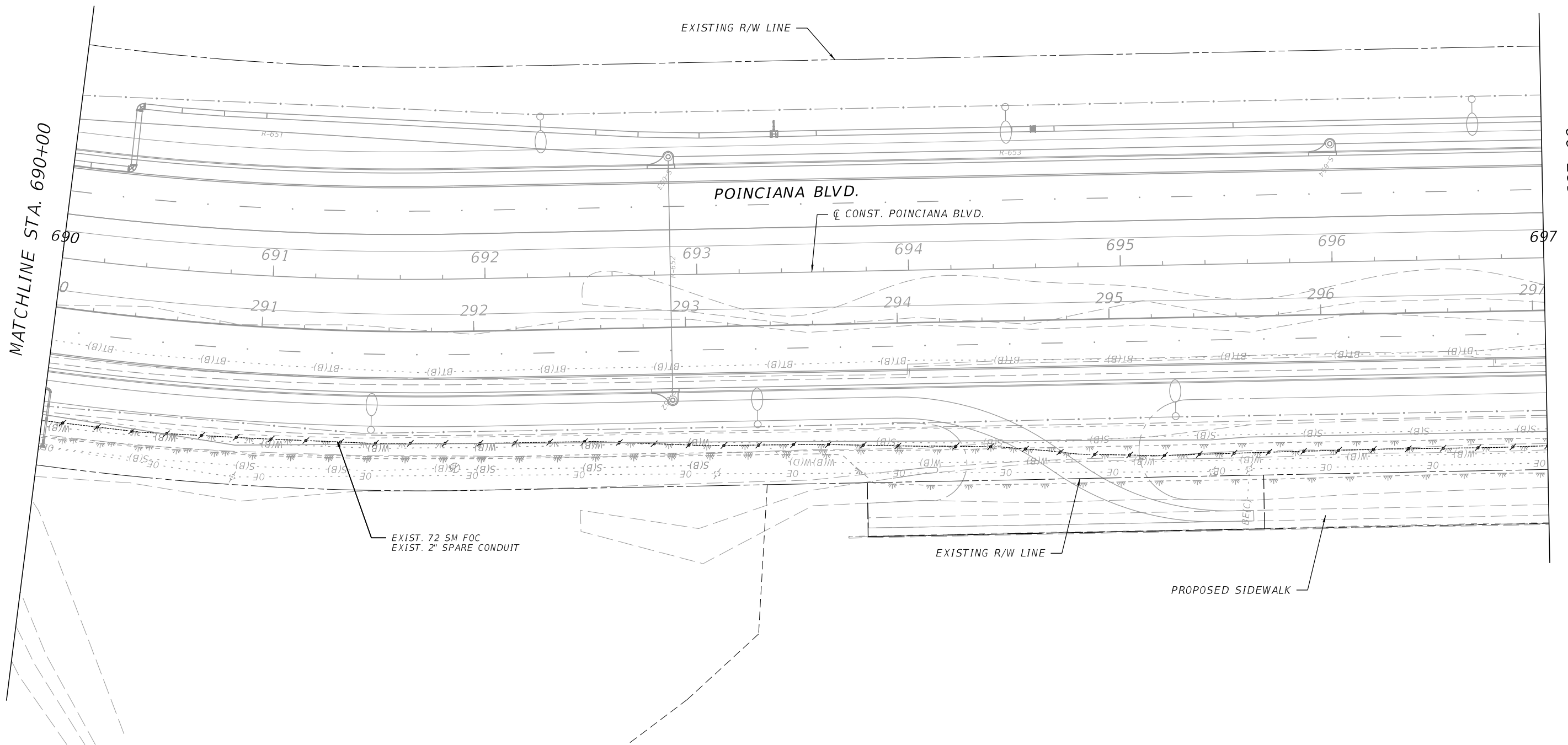
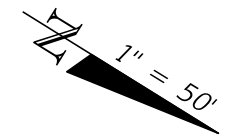


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ITS PLANS (41)

SHEET NO.
 IT-54

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MATCHLINE STA. 690+00

MATCHLINE STA. 697+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

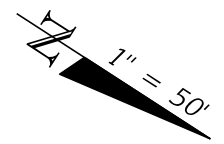
ERIK SPILLMANN, P.E. NO. 58771
 BCC ENGINEERING, LLC.
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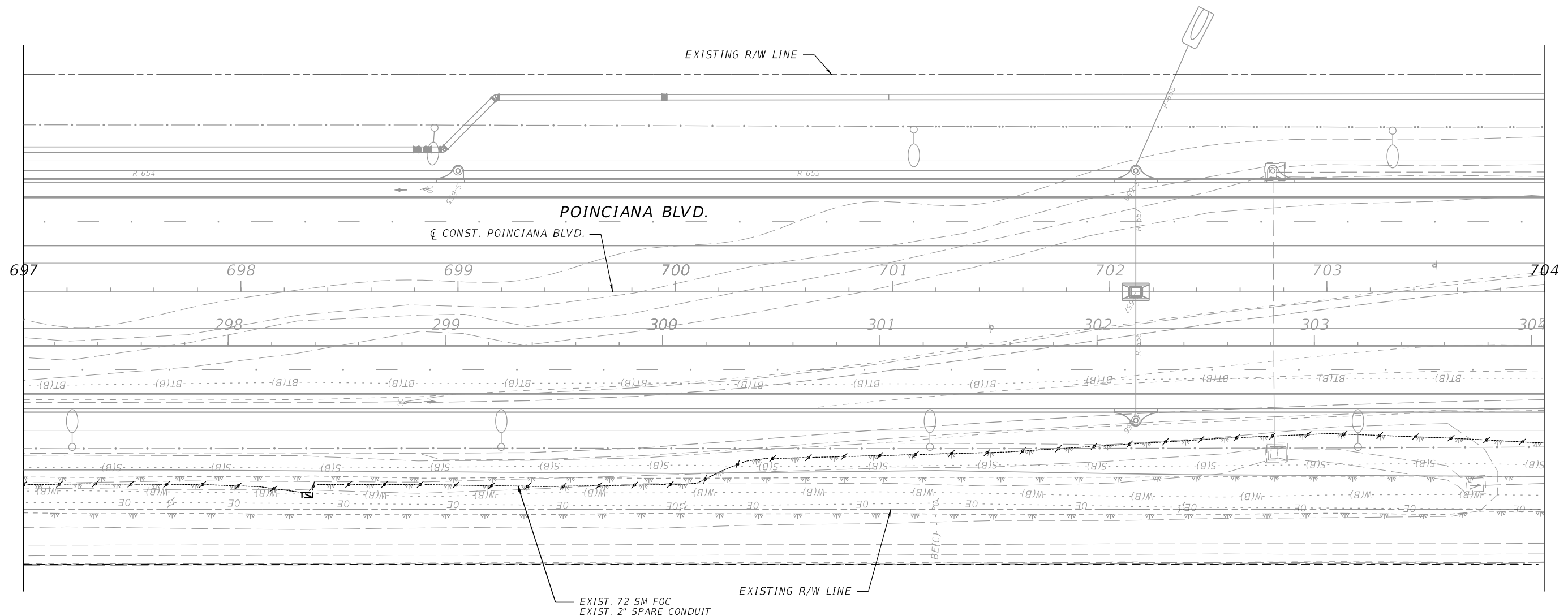
ITS PLANS (42)

SHEET
NO.
IT-55




MATCHLINE STA. 697+00

MATCHLINE STA. 704+00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

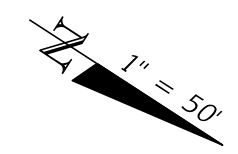
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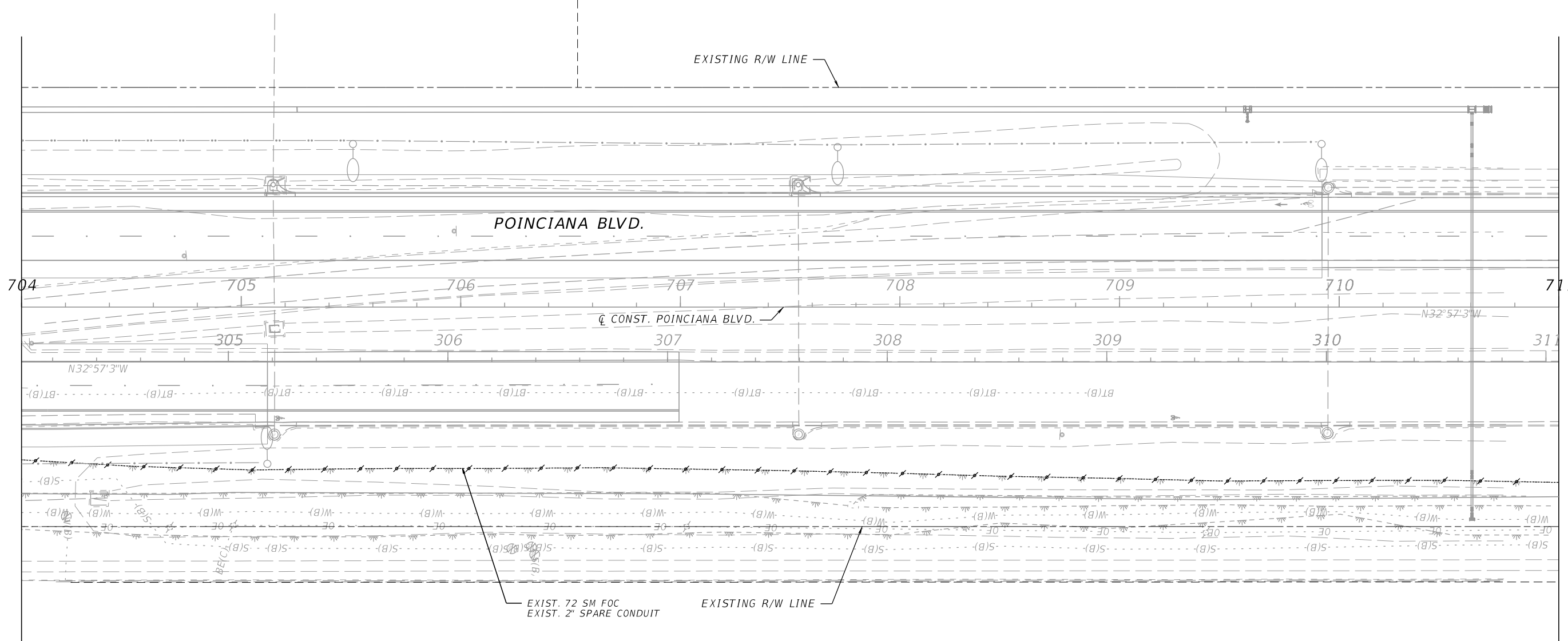
ITS PLANS (43)

SHEET NO.
 IT-56




MATCHLINE STA. 704+00

MATCHLINE STA. 711+00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ITS PLANS (44)

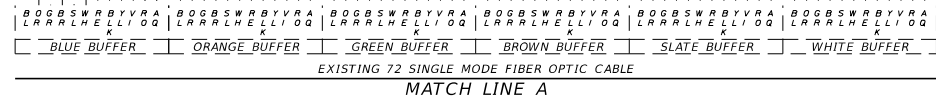
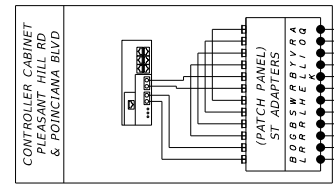
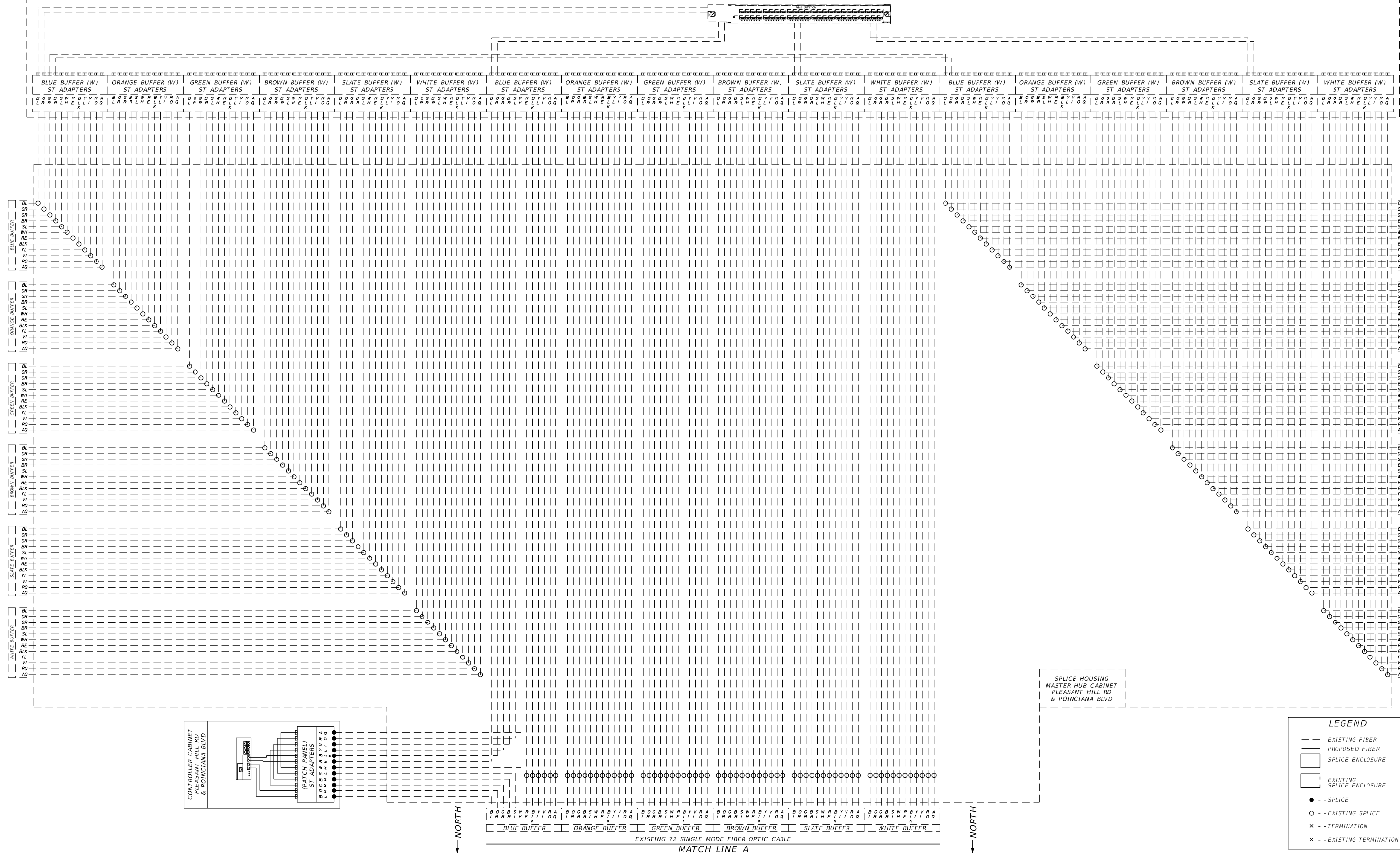
SHEET NO.
 IT-57

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CONNECTOR HOUSING - MASTER HUB CABINET
PLEASANT HILL RD
& POINCIANA BLVD

EXIST. 72 SM FOC PLEASANT HILL RD (SOUTH)

EXIST. 72 SM FOC PLEASANT HILL RD (NORTH)



SPLICE HOUSING
MASTER HUB CABINET
PLEASANT HILL RD
& POINCIANA BLVD

LEGEND

- EXISTING FIBER
- PROPOSED FIBER
- SPLICE ENCLOSURE
- EXISTING SPLICE ENCLOSURE
- -- SPLICE
- -- EXISTING SPLICE
- x -- TERMINATION
- x -- EXISTING TERMINATION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E. NO. 58771
BCC ENGINEERING, LLC.
160 N. WESTMONTE DRIVE, SUITE 2000
ALTAMONTE SPRINGS, FLORIDA 32714

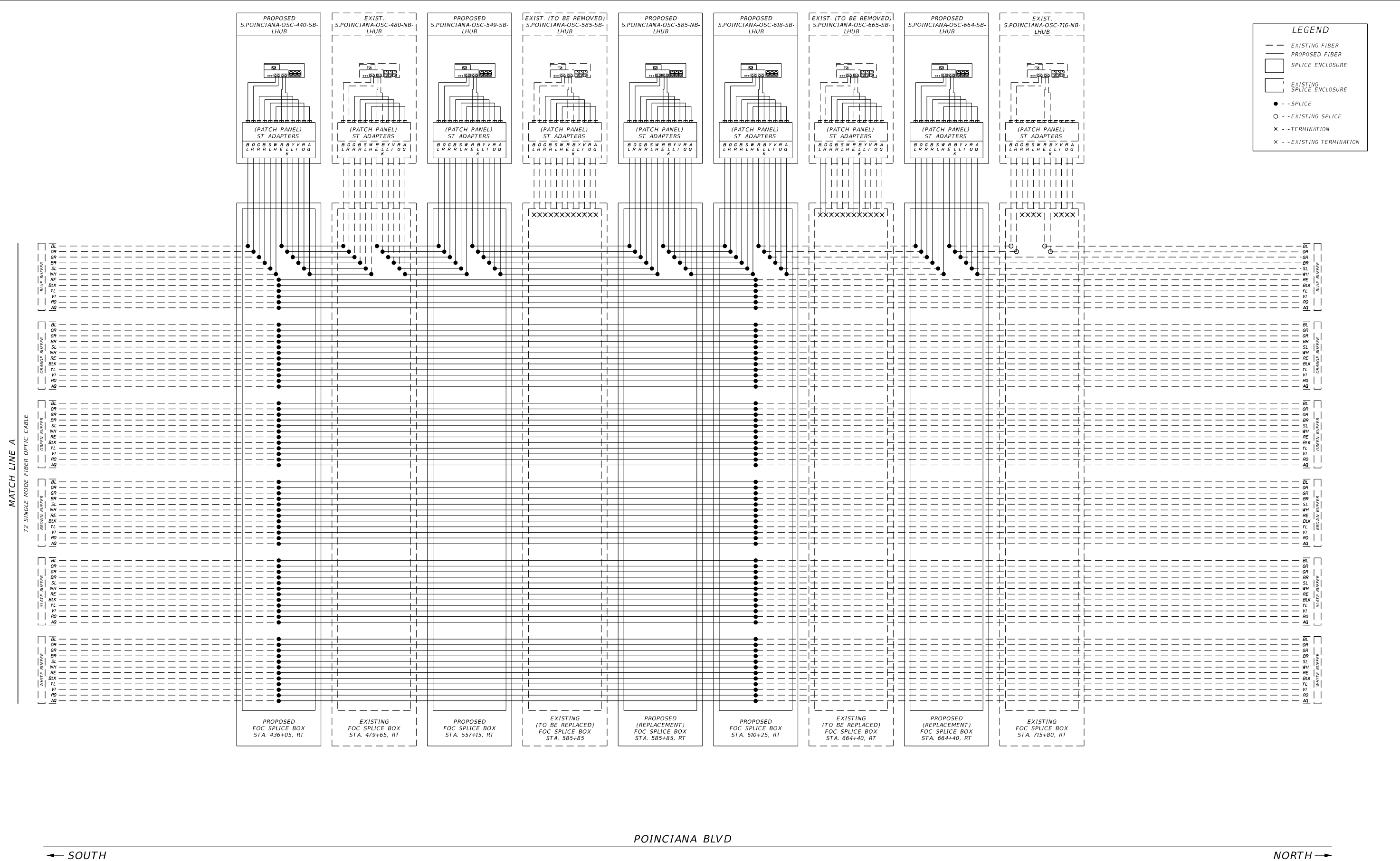


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SPLICE LAYOUT


SHEET NO.
IT-59

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REVISIONS			
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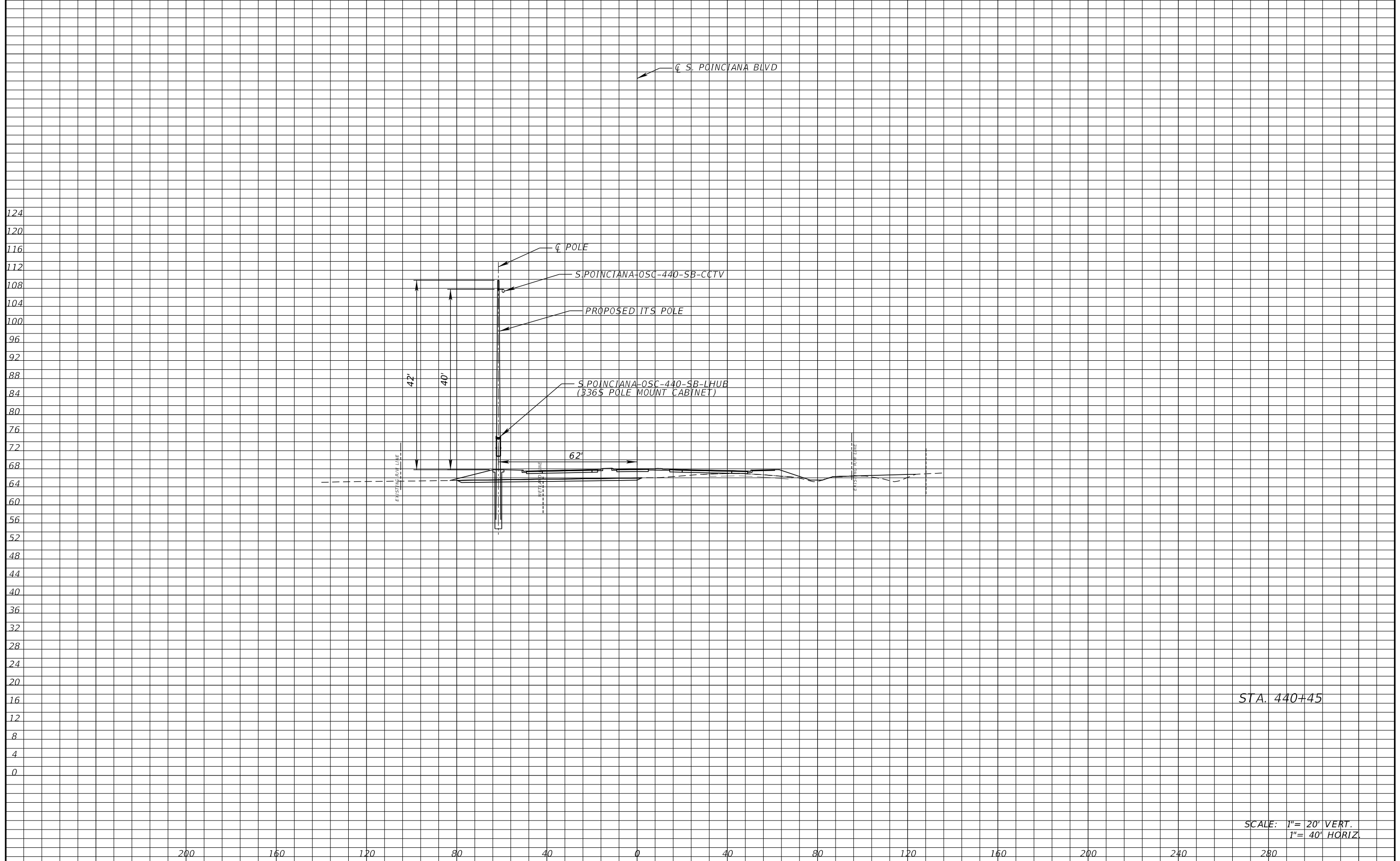
ERIK SPILLMANN, P.E NO. 58771
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 TRANSPORTATION AND TRANSIT
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SPLICE LAYOUT

SHEET NO.
 IT-60

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STA. 440+45

SCALE: 1" = 20' VERT.
1" = 40' HORIZ.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

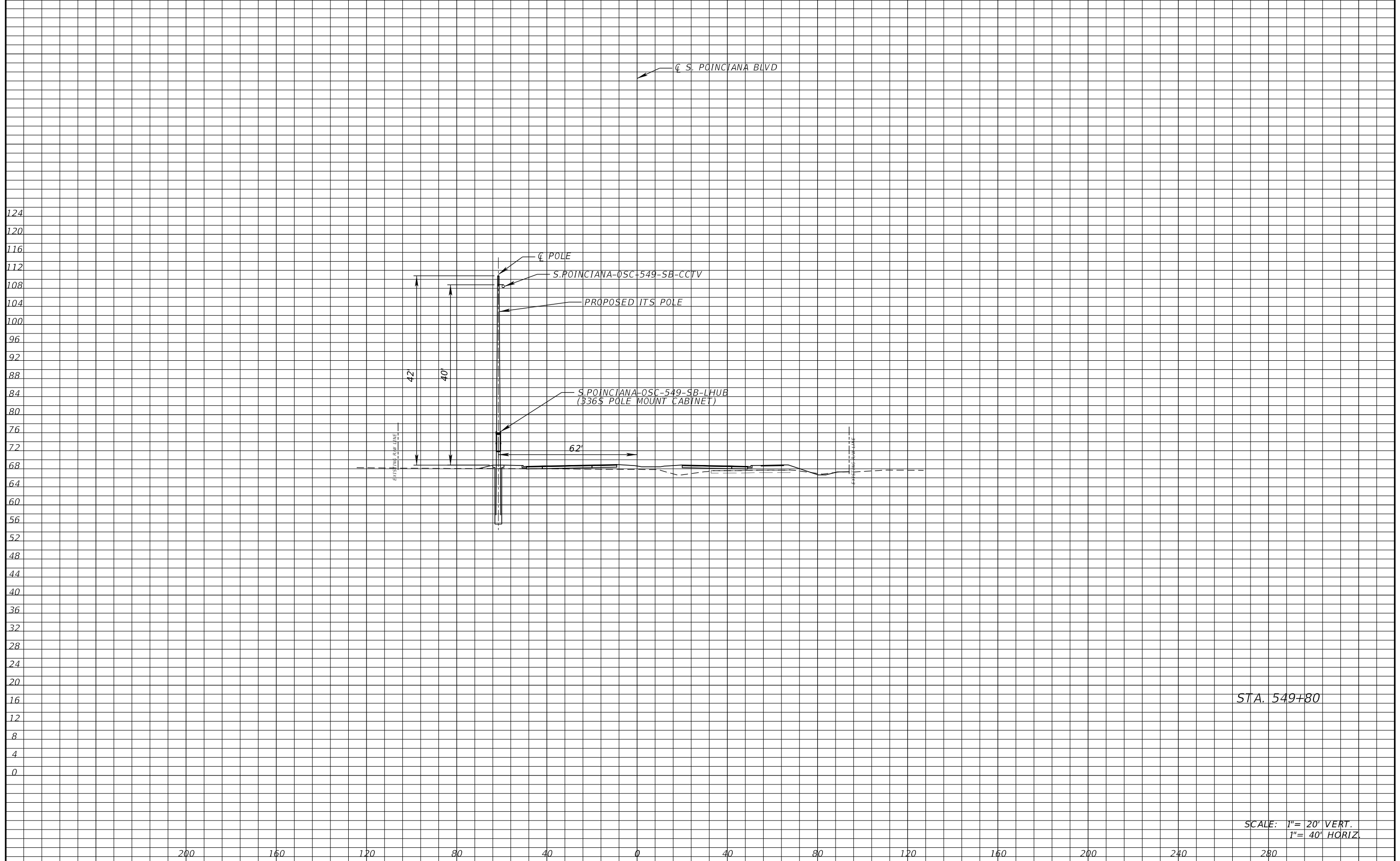
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ITS CROSS SECTIONS

SHEET NO.
IT-61

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




STA. 549+80

SCALE: 1" = 20' VERT.
1" = 40' HORIZ.

REVISIONS	
DATE	DESCRIPTION

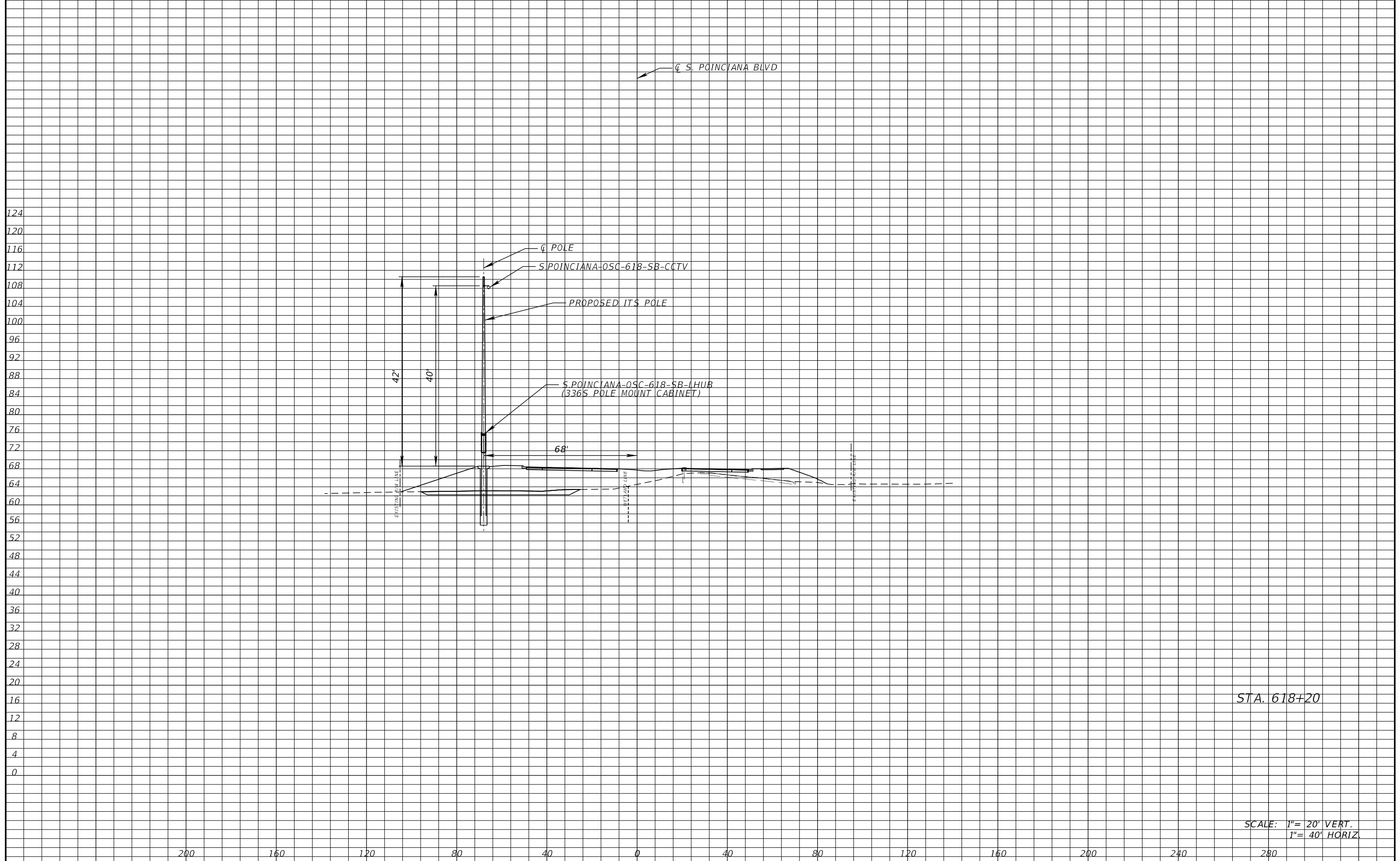
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ITS CROSS SECTIONS

SHEET NO.
IT-62


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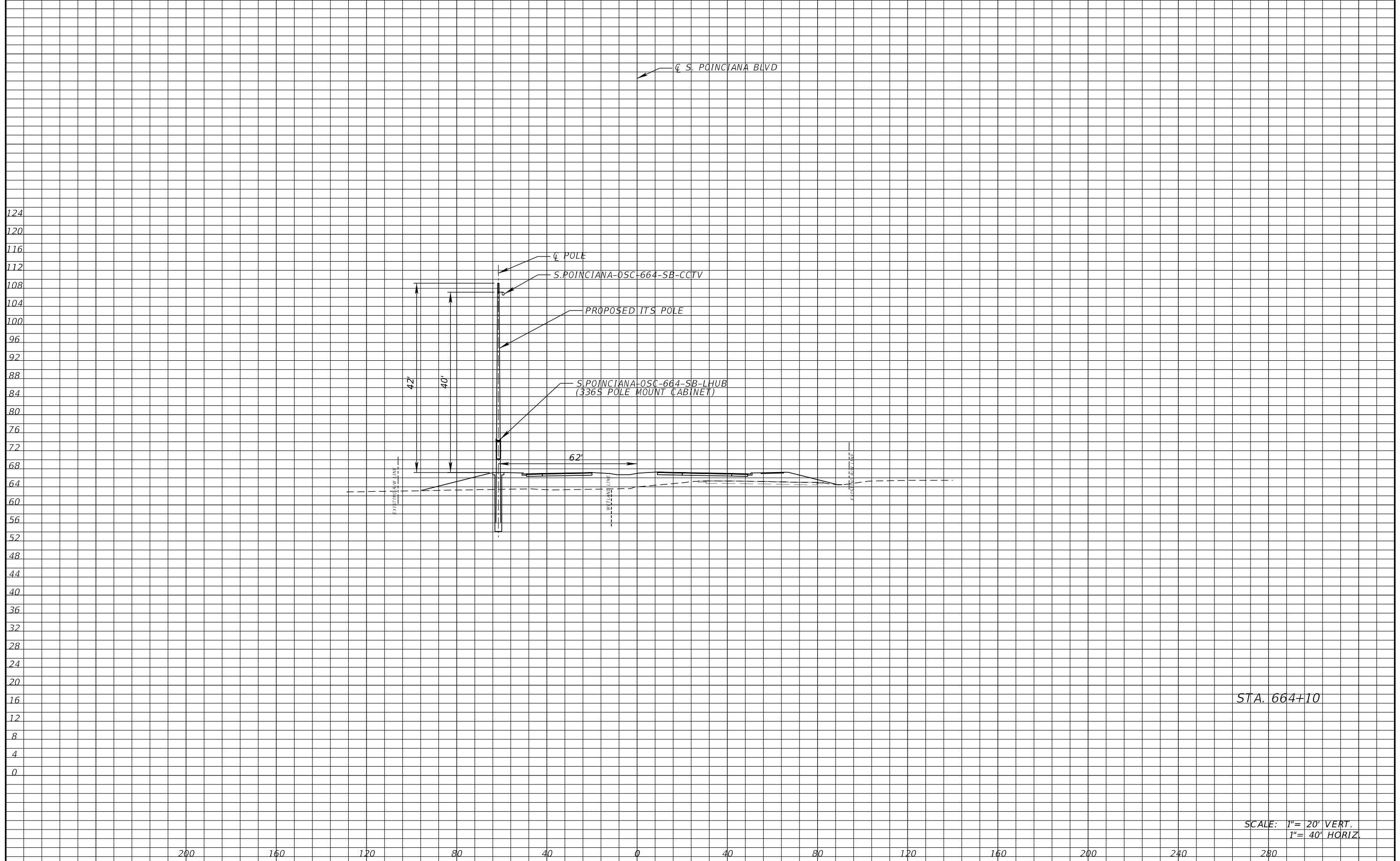
STA. 618+20

SCALE: 1" = 20' VERT.
1" = 40' HORIZ.

200 160 120 80 40 0 40 80 120 160 200 240 280

REVISIONS							
DATE	DESCRIPTION	DATE	DESCRIPTION				
				ERIK SPILLMANN, P.E. NO. 58771 BCC ENGINEERING, LLC. 160 N. WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714		 OSCEOLA COUNTY TRANSPORTATION AND TRANSIT 1 Courthouse Square, Suite 3100 Kissimmee, Florida 34741 (407) 742-0552 Fax: (407) 742-0560	
						ITS CROSS SECTIONS	
						SHEET NO. IT-63	

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STA. 664+10

SCALE: 1" = 20' VERT.
1" = 40' HORIZ.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

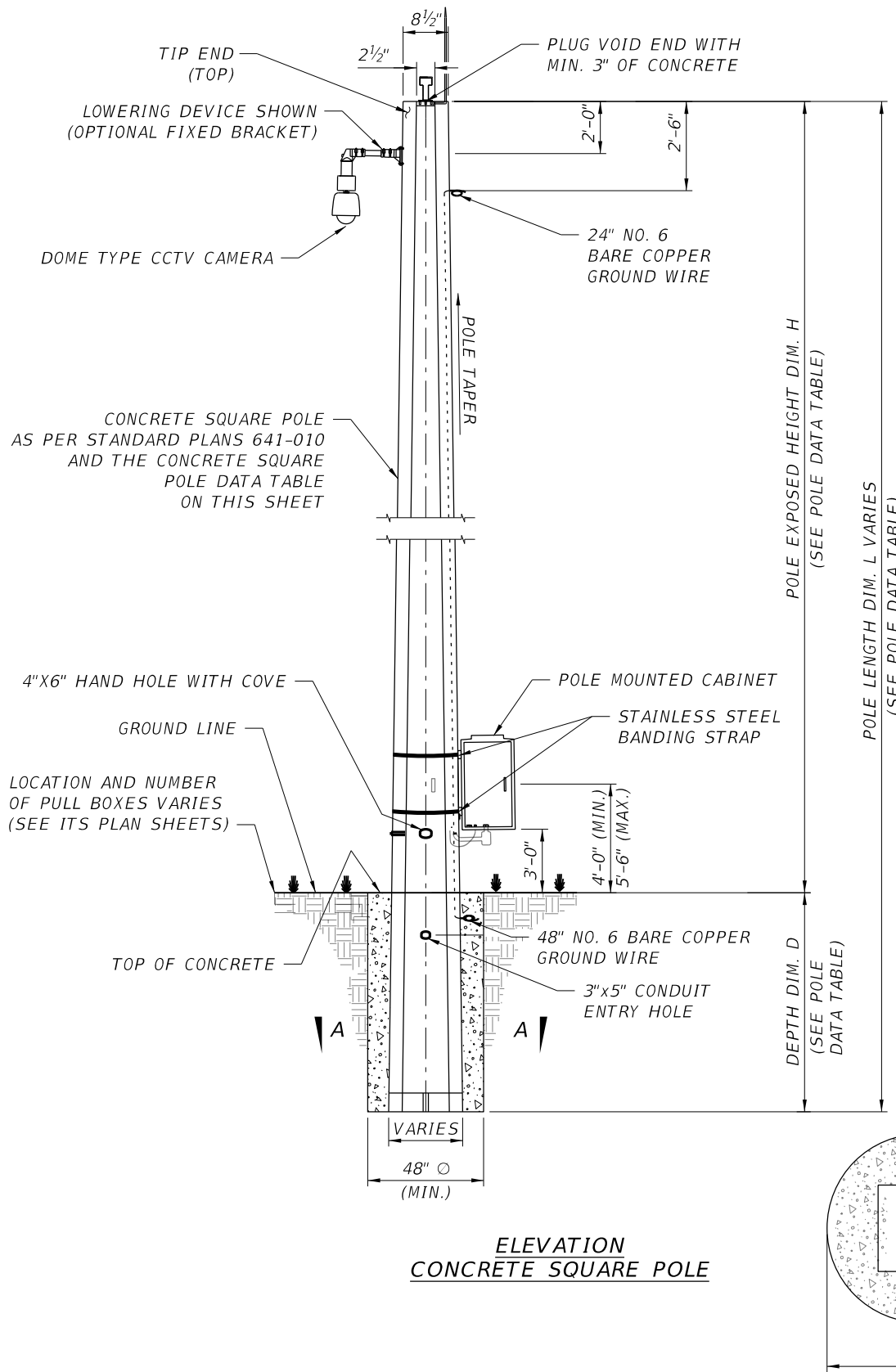
ERIK SPILLMANN, P.E. NO. 58771
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160 N. WESTMONTE DRIVE, SUITE 2000
ALTAMONTE SPRINGS, FLORIDA 32714

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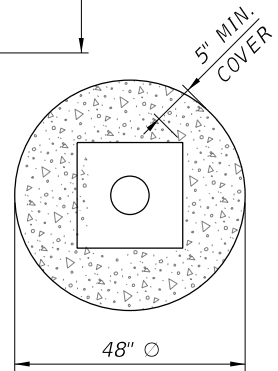
ITS CROSS SECTIONS

SHEET NO.
IT-64

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**ELEVATION
CONCRETE SQUARE POLE**



SECTION A-A

POLE ID	STATION/ OFFSET	EXPOSED POLE HEIGHT DIM. H (FT)	GRADE SLOPE	POLE TIP WIDTH (IN)	POLE TAPER (IN/FT)	EMBEDMENT DEPTH DIM. D (FT)	TOTAL POLE LENGTH DIM. L (FT)	MINIMUM REQUIRED POLE ULTIMATE MOMENT CAPACITY AT GROUND LINE (KIP-FT)	POLE TYPE
OSC-440- SB-CCTV	440+45/ LT	42	FLAT	8.5	0.162	10	52	80.00	IV
OSC-549- SB-CCTV	549+80/ LT	42	FLAT	8.5	0.162	11	53	80.00	IV
OSC-618- SB-CCTV	618+20/ LT	42	1:3	8.5	0.162	15	57	80.00	IV
OSC-664- SB-CCTV	664+10/ LT	42	FLAT	8.5	0.162	11	53	80.00	IV

NOTES:

- CONCRETE SQUARE POLES SHALL BE CONSTRUCTED AND INSTALLED AS PER FDOT STANDARD PLANS 641-010 AND FDOT SPECIFICATION SECTION 641.
- SEE ITS PLANS FOR ADDITIONAL INFORMATION SUCH AS STATION, PLAN SHEET LOCATIONS, MOUNTING HEIGHTS TO CCTV AND CABINET DETAILS AND OFFSETS.
- THE PRESTRESSED CONCRETE POLES SHALL BE DESIGNED FOR THE ULTIMATE MOMENT CAPACITY SHOWN AND SHALL MEET ALL THE REQUIREMENTS OF FDOT STANDARD PLANS 641-010 AND SPECIFICATION SECTION 641.
- ALL PRESTRESSED POLES SHALL BE FULLY EMBEDDED IN CLASS NS NON-STRUCTURAL CONCRETE AND DESIGNED FOR THE FOLLOWING:
 - 140 MPH WIND SPEED WITH A 25 YEAR STRUCTURE DESIGN LIFE.
 - A ONE INCH MAXIMUM DEFLECTION IN A 40 MPH WIND SPEED (3-SECOND GUST).
 - ASSUMED POLE BASE MOUNT ELEVATION AT 0 FT ABOVE SURROUNDING GRADE.
 - SYMMETRICAL STRAND LAYOUT (NO RAKE).
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CORRESPONDING POLE CAPACITY CALCULATIONS FOR ENGINEER OF RECORD REVIEW AND APPROVAL. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.
- FOUNDATION DESIGN IS BASED ON THE FOLLOWING CONSERVATIVE PARAMETERS:
 - SOIL TYPE - SAND
 - SOIL LAYER THICKNESS - 30 FT FOR POLE 1 AND 15 FT FOR POLES 2, 3 AND 4.
 - SOIL FRICTION ANGLE - 30° FOR POLE 1 AND 28° FOR POLES 2, 3 AND 4.
 - EFFECTIVE SOIL WEIGHT - 50 PCF FOR POLE 1 AND 40 PCF FOR POLES 2, 3 AND 4.
 - DESIGN WATER TABLE AT GRADE
 IF MUCK OR PEAT IS ENCOUNTERED DURING CONSTRUCTION, STOP WORK AND NOTIFY THE ENGINEER FOR RE-DESIGN OF FOUNDATION. IF PROPOSED POLE EFFECTIVE PROJECTED AREA (EPA) IS GREATER THAN THE EPA ASSUMED IN THE FOUNDATION DESIGN, THE ENGINEER OF RECORD WILL RE-EVALUATE THE REQUIRED FOUNDATION DEPTH AND SPECIFY ANY CHANGES DURING THE SHOP DRAWING REVIEW IF REQUIRED.
- GEOTECHNICAL NOTES:
 - DRILLED SHAFT FOUNDATION MUST BE INSTALLED SUCH THAT THE SOILS ON THE SIDES AND BOTTOM OF SHAFT ARE RELATIVELY UNDISTURBED. INTIMATE CONTACT MUST BE MADE BETWEEN THE CONCRETE AND SURROUNDING SOILS.
 - "NATURAL SLURRY IS NOT ALLOWED BY FDOT SPECIFICATIONS AND SHOULD NOT BE RELIED UPON TO PREVENT CAVING OF SOILS AND MAINTAINING AN OPEN HOLE."
 - ARTESIAN CONDITIONS WERE NOT NOTED BY THE DRILLER DURING DRILLING PERFORMED TO A MAXIMUM DEPTH OF 30 FEET. HOWEVER, BASED ON REVIEW OF THE FDPE 2017 POTENTIOMETRIC CONTOUR MAP OF THE UPPER FLORIDIAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE AT APPROXIMATELY +60 TO +68 FEET, NGVD.

2/20/2023 4:58:44 PM bllh C:\Users\bllh\OneDrive - CONSOR Engineers, LLC\Worksets\FDOT\20016800000.Structures\MiscStr01.dgn

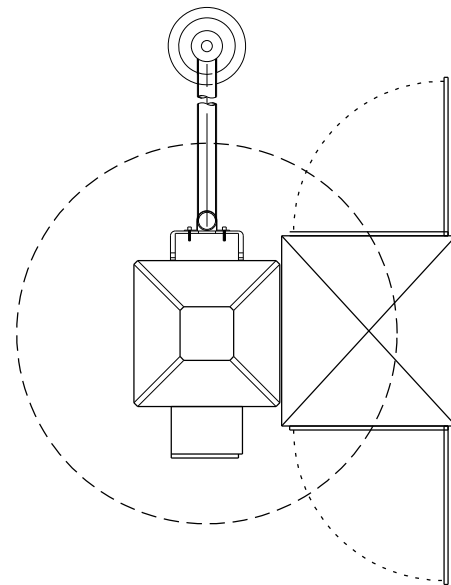
REVISIONS				ENGINEER OF RECORD		OSCEOLA COUNTY TRANSPORTATION AND TRANSIT 1 Courthouse Square, Suite 3100 Kissimmee, Florida 34741 (407) 742-0552 Fax:(407) 742-0560	CONCRETE POLE DATA SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	CHRISTOPHER R. HOWARD, P.E. LICENSE NUMBER: 54161 CONSOR ENGINEERS, LLC 2511 ST. JOHNS BLUFF ROAD SOUTH, SUITE 107 JACKSONVILLE, FL 32246				IT-65

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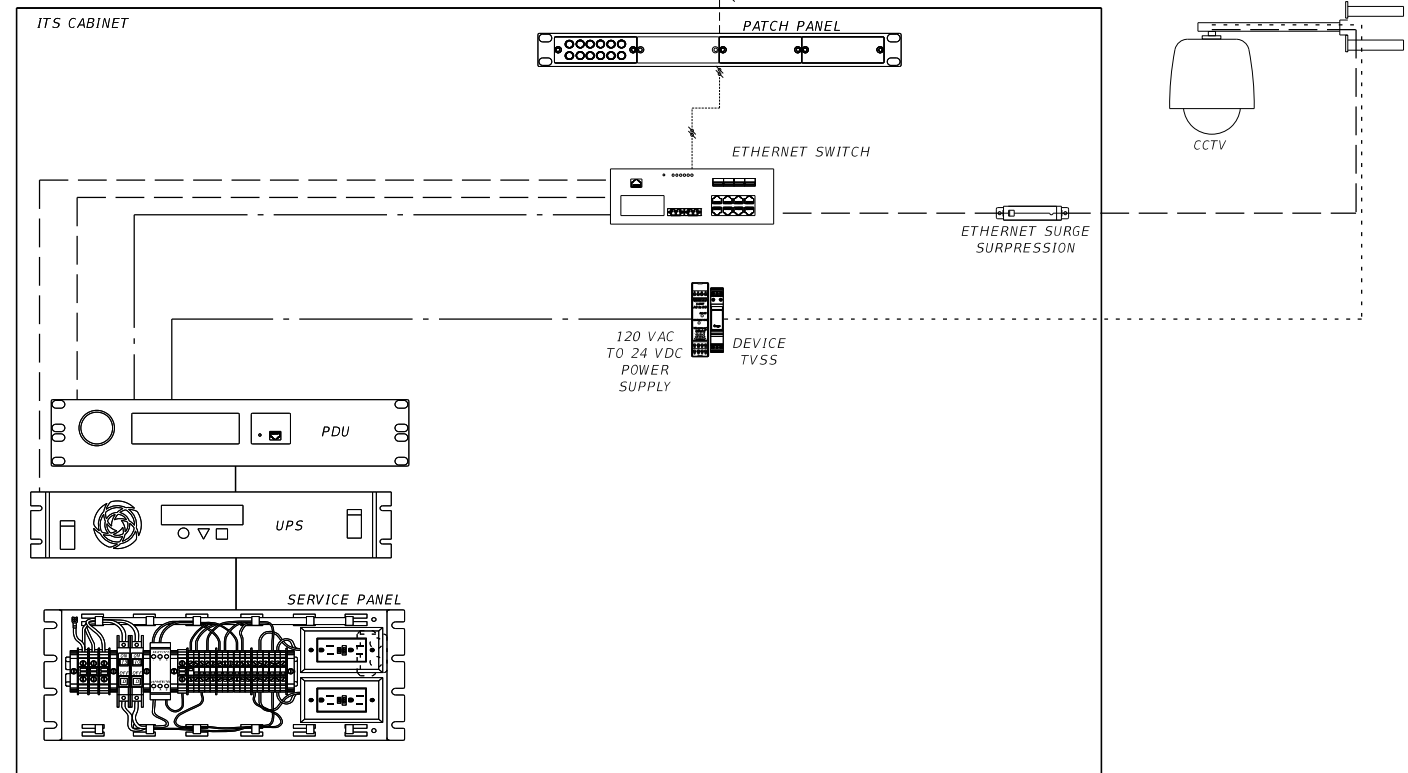
PROPOSED POLE MOUNT ITS CABINET DETAIL:

1. S. POINCIANA-OSC-440-SB-CCTV
2. S. POINCIANA-OSC-549-SB-CCTV
3. S. POINCIANA-OSC-618-SB-CCTV
4. S. POINCIANA-OSC-664-SB-CCTV

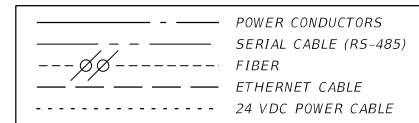
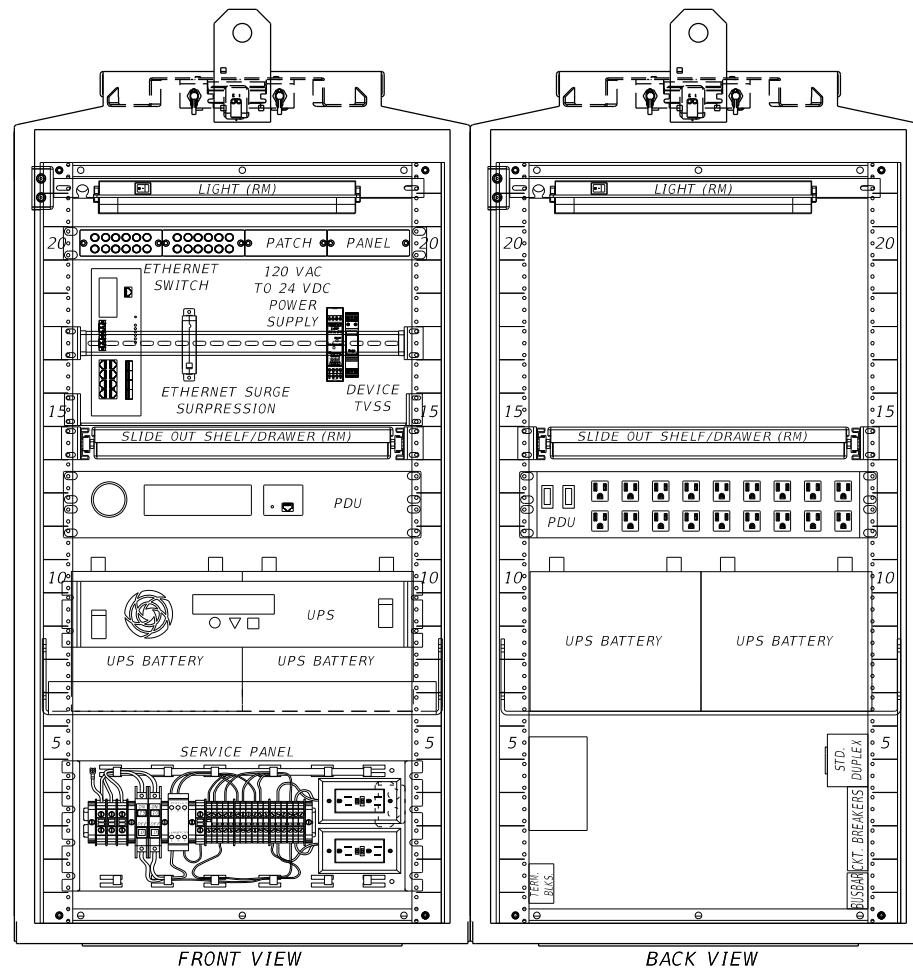
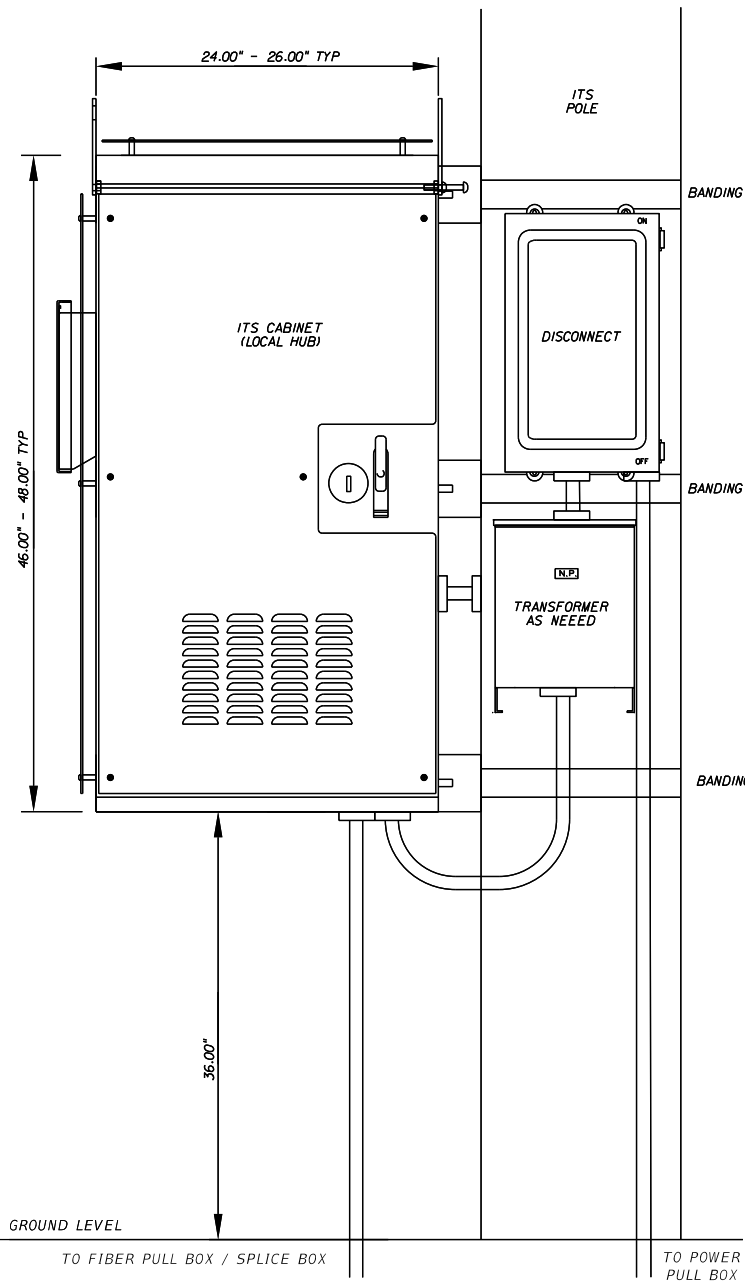
ITS POLE OVERHEAD VIEW



POWER AND COMMUNICATIONS SCHEMATIC



ITS CABINET RISER VIEW



NOTES:

1. THE CABINET SHALL PROVIDE FOR RACK MOUNTING AND SHELVING OF ALL EQUIPMENT.
2. CABINETS SHALL BE TYPE 336S AND FABRICATED IN ACCORDANCE TO SECTION 676 OF THE FDOT MINIMUM SPECIFICATIONS FOR TRAFFIC CONTROL SIGNALS AND DEVICES.
3. BUS RATING SHALL BE A MINIMUM OF THE FULL ELECTRICAL LOAD WHEN ALL CABINET AND EXTERNAL DEVICES ARE ACTIVE.
4. 19" DOUBLE DIN RAIL SHALL BE GROUNDED PER AND MANUFACTURER'S RECOMMENDATIONS.
5. CONTRACTOR SHALL SUBMIT A CABINET LAYOUT/WIRING DIAGRAM FOR APPROVAL.

ITS CABINET EQUIPMENT LAYOUT VIEW

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIK SPILLMANN, P.E NO. 58771
 BCC ENGINEERING, LLC.
 160 N. WESTMONTE DRIVE, SUITE 2000
 ALTAMONTE SPRINGS, FLORIDA 32714



OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
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ITS CABINET DETAILS

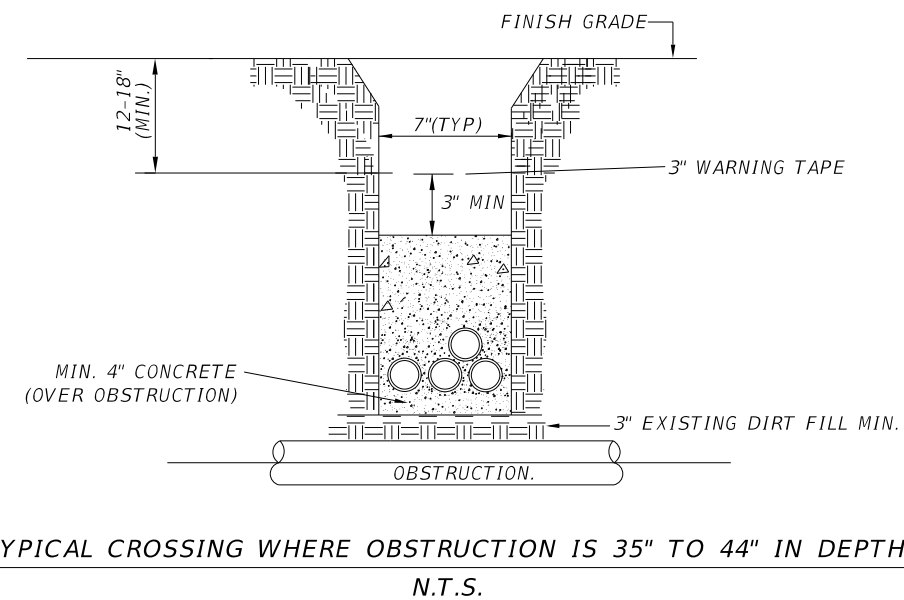
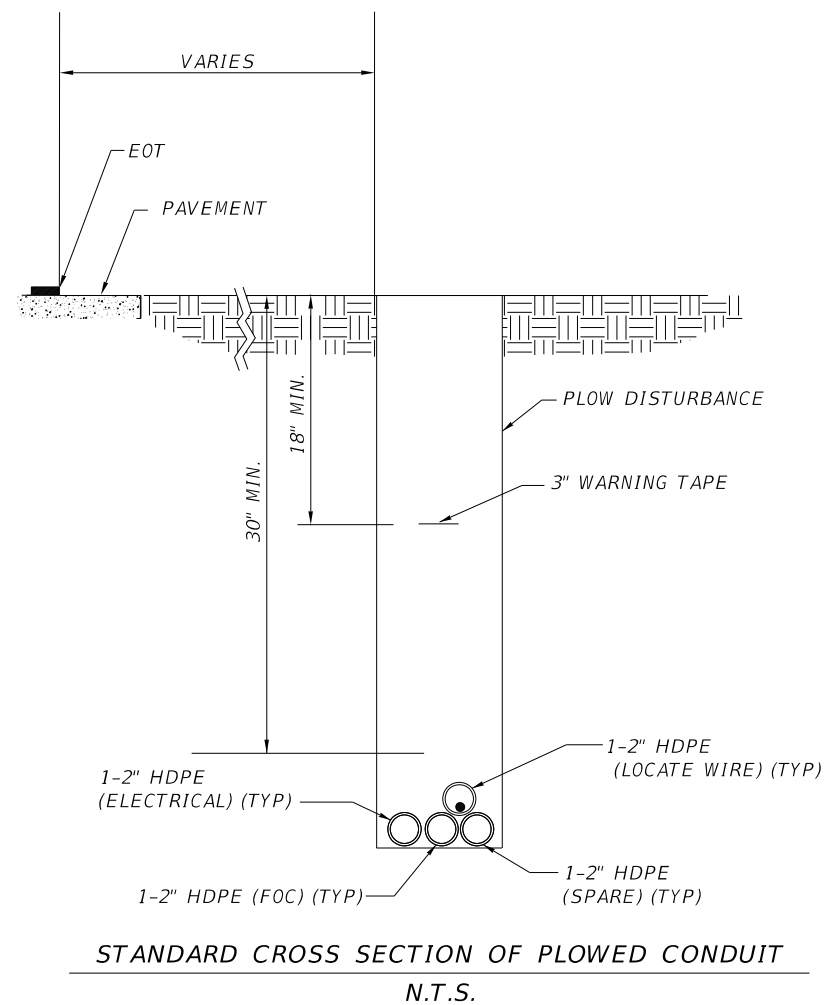
SHEET NO.

IT-66

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

NOTES:

1. TRAFFIC CONTROL FOR LONGITUDINAL INSTALLATION SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS, 102 SERIES.
2. A MINIMUM OF 2'- 0" SHALL BE MAINTAINED FROM EXISTING LANDSCAPE FEATURES.
3. JOINT COUPLINGS WILL BE USED AS NECESSARY.
4. CONDUIT PATH WILL BE ROUTED TO AVOID ANY OBSTRUCTIONS SHOULD OBSTRUCTIONS BE ENCOUNTERED, THE FOLLOWING HIERARCHY WILL BE ADHERED TO:
 - A. ROUTE CONDUIT AROUND OBSTRUCTION USING SWEEPING BENDS.
 - B. IF "A" CANNOT BE ACCOMPLISHED, CONDUIT ROUTING WILL BE MADE UNDER THE OBSTRUCTION.
 - C. IF A OR B CANNOT BE ACCOMPLISHED, THEN CONDUIT CAN BE INSTALLED PER "TYPICAL CROSSING WHERE OBSTRUCTION IS 35" TO 44" IN DEPTH" DETAIL. OWNERS APPROVAL MUST BE OBTAINED.
5. ALL CONCRETE SHALL BE FDOT APPROVED CLASS 1.
6. WHERE CONDUITS ARE TO BE INSTALLED OVER EXISTING UNDERGROUND STRUCTURES (E.G., DRAIN PIPES OR UTILITY LINES) WHICH ARE LESS THAN 30" DEEP, THE CONTRACTOR SHALL ENCASE THE CONDUIT IN 2500 PSI CLASS 1 CONCRETE FOR THE ENTIRE LENGTH OF CONDUIT THAT IS INSTALLED AT A DEPTH OF LESS THAN 30".



REVISIONS			
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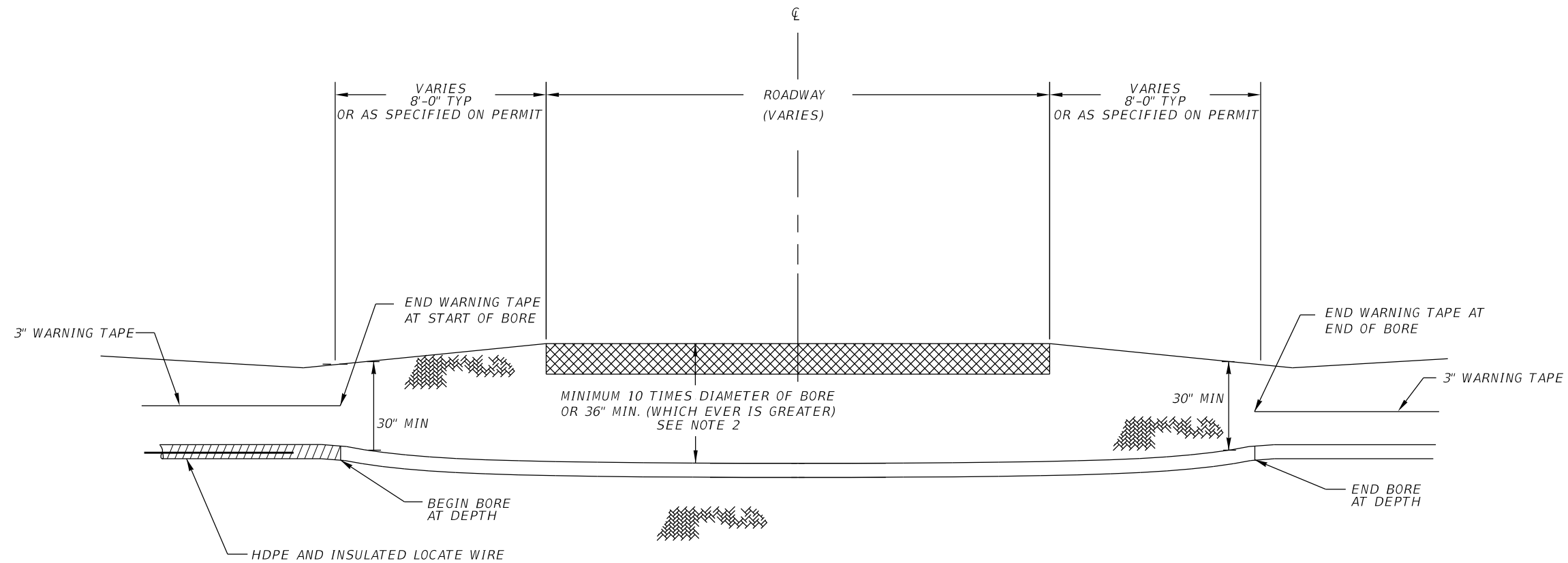


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**TRENCH AND PLOWING
DETAILS**

SHEET
NO.

IT-67



TYPICAL DIRECTIONAL BORE
N.T.S.

NOTES:

1. UTILITY IN THE PATH OF THE BORE SHALL BE LOCATED AND THE DEPTH OF THE BORE CROSSING SHALL BE DELINEATED TO CROSS UNDER OR OVER UTILITY WITH 12" MINIMUM SEPARATION.
2. HORIZONTAL DEPTH SHALL BE IN ACCORDANCE WITH FDOT UTILITY ACCOMMODATION MANUAL SECTION 9.3 AND 12.3.

REVISIONS			
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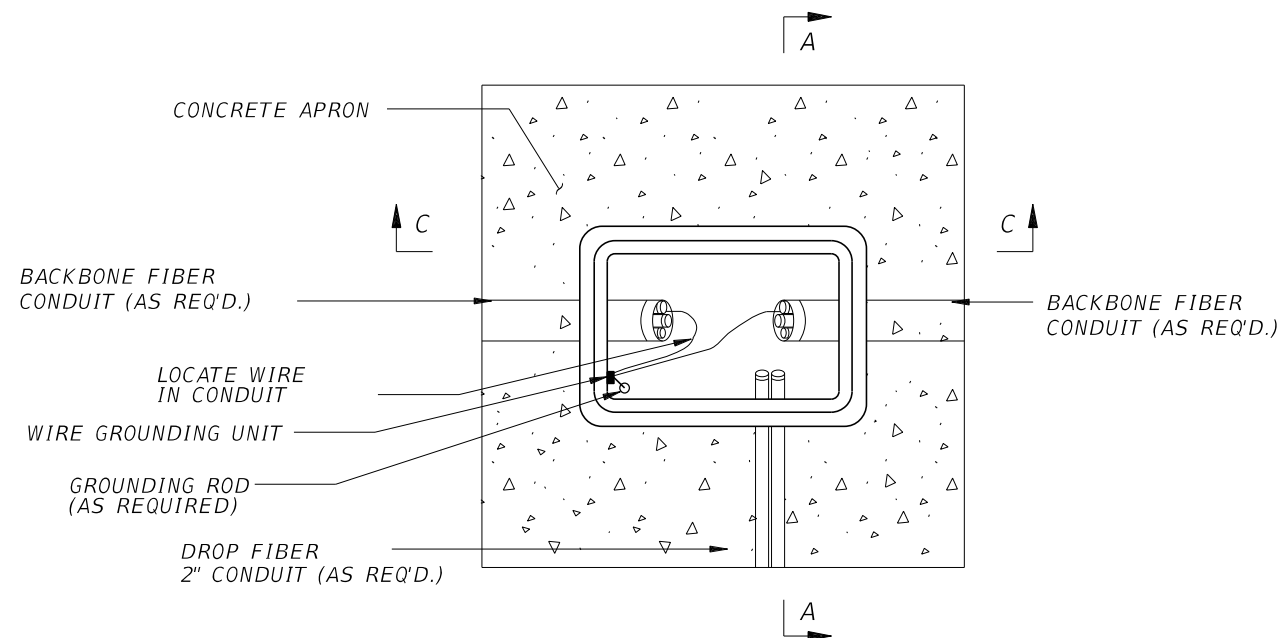


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DIRECTIONAL BORE DETAIL

SHEET NO.

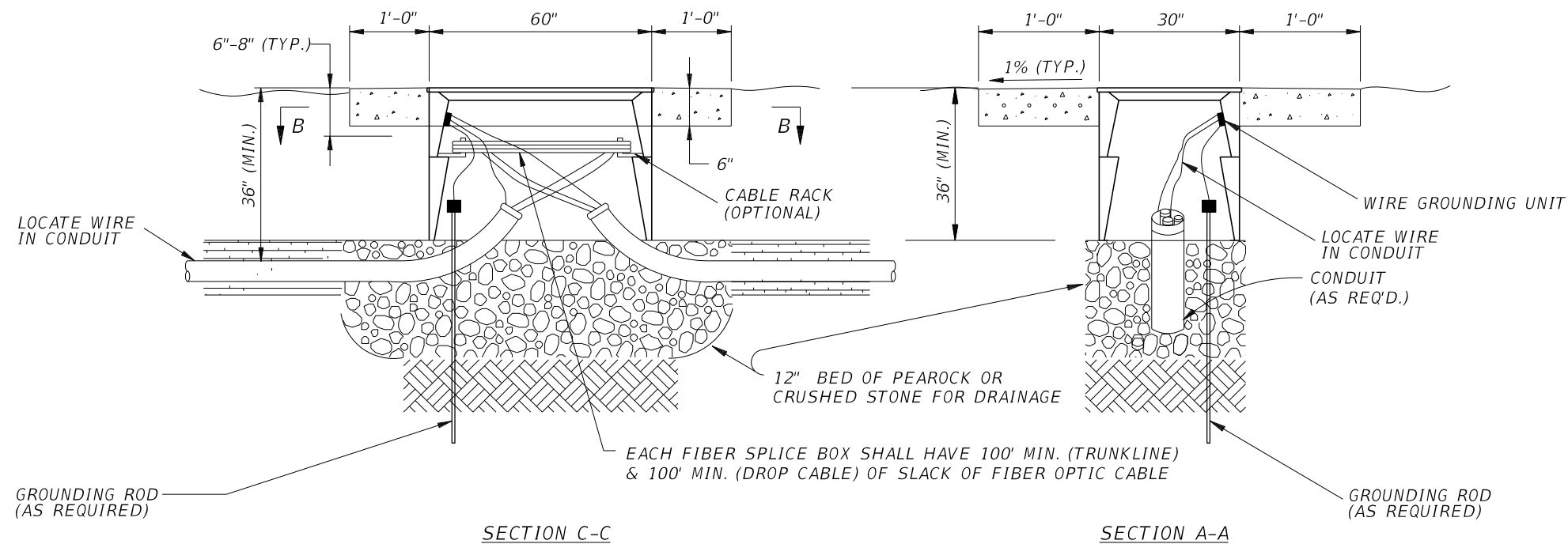
IT-68



SECTION B-B

NOTES:

1. ALL PULL BOXES SHALL HAVE MINIMUM 1'-0" WIDE x 6" DEEP CONCRETE APRONS SLOPED AWAY FROM PULL BOX. THE COST OF APRON IS TO BE INCLUDED IN THE COST OF EACH PULL BOX.
2. WIRE GROUNDING UNITS (WGU) FOR LOCATE WIRE REQUIRED IN SPLICE BOXES.
3. FIBER OPTIC SPLICE BOX LENGTH (LONG SIDE) SHALL BE PARALLEL TO THE CONDUIT RUN. WHEN THE CONDUIT RUN IS PERPENDICULAR AT THE JUNCTION POINT, THE SPLICE BOX SHALL BE PARALLEL TO THE ROADWAY.
4. CONDUIT \varnothing SHALL BE ALIGNED TO TOP EDGE OF SPLICE BOX TO FACILITATE CABLE PULLING.
5. NOTE THAT THE DIMENSIONS SHOWN ARE THE TYPICAL DIMENSIONS AND MANY VARY SLIGHTLY DEPENDING ON THE MANUFACTURER.
6. ALL FIBER OPTIC SPLICE BOX COVERS SHALL HAVE THE WORDS "OSCEOLA COUNTY ATMS" IMPRINTED.



SECTION C-C

SECTION A-A

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 160 N. WESTMONTE DRIVE, SUITE 2000
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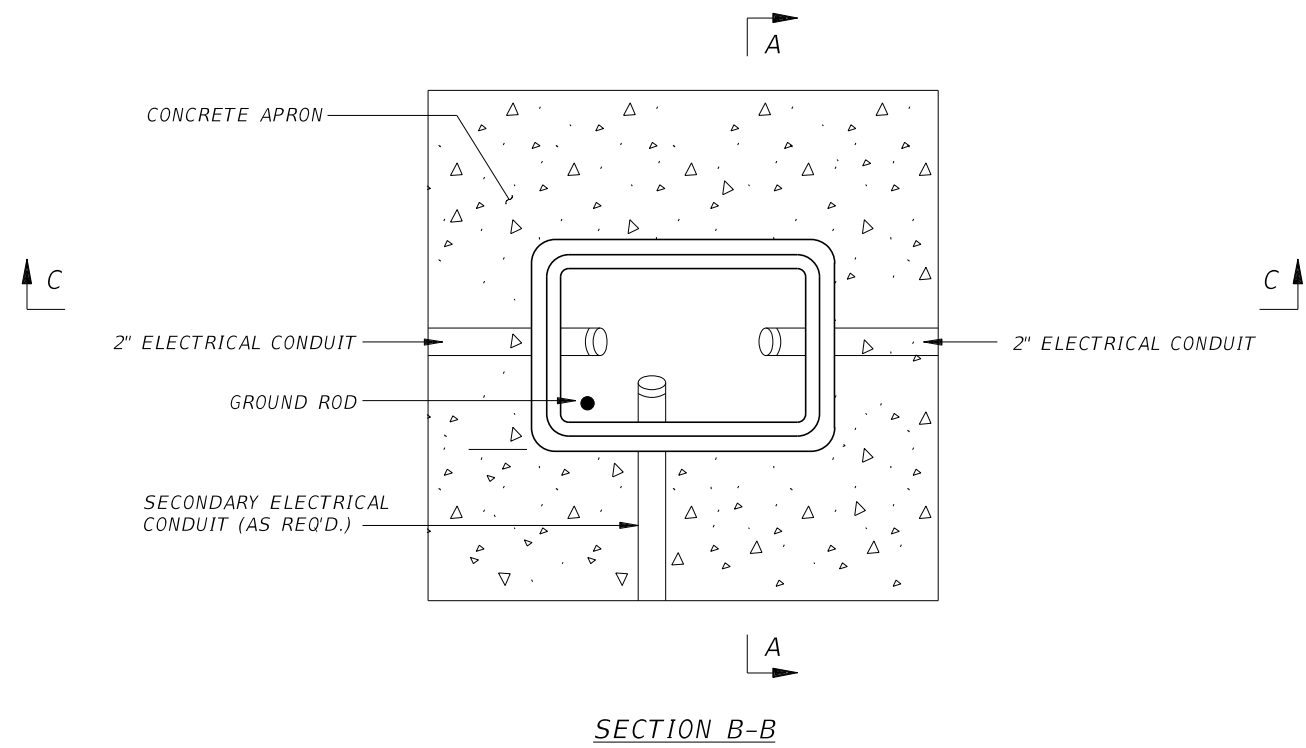


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FIBER OPTIC SPLICE BOX
 DETAIL

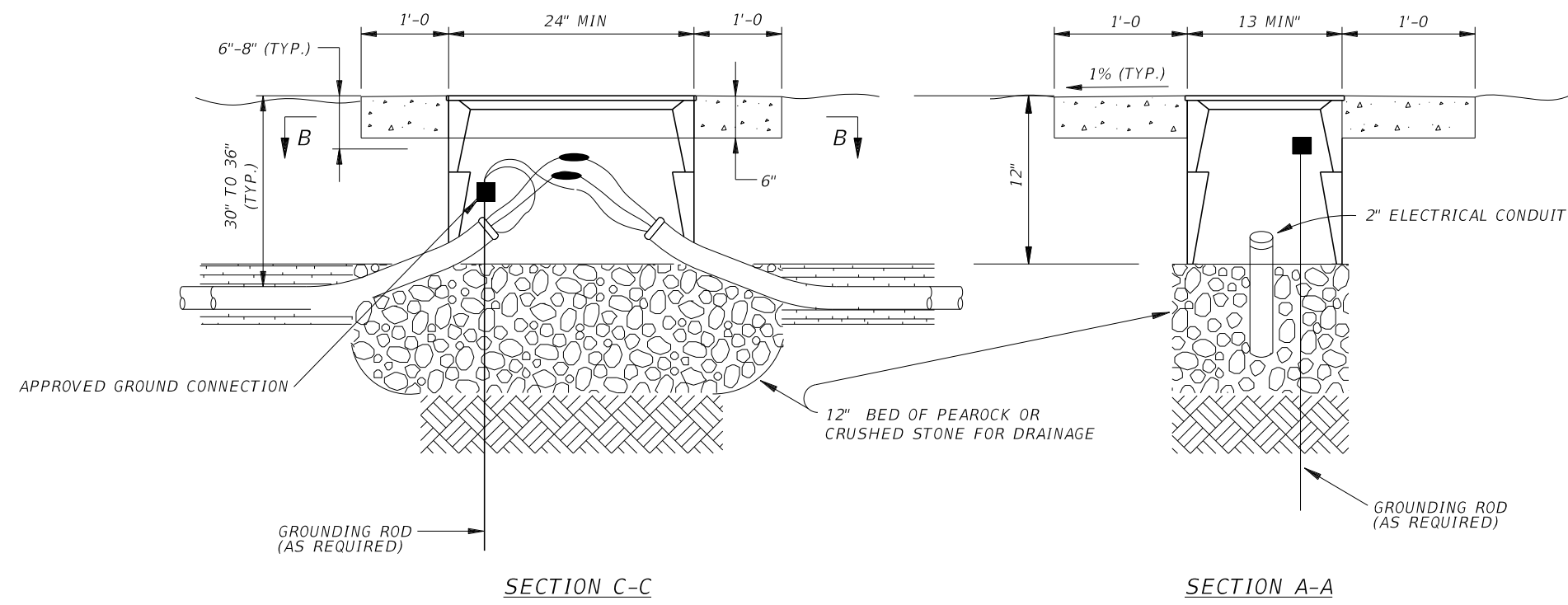
SHEET
 NO.

IT-69




NOTES:

1. CONDUIT C/L SHALL BE ALIGNED TO TOP EDGE OF PULL BOX TO FACILITATE CABLE PULLING.
2. ALL FIBER OPTIC, SIGNAL, & ELECTRIC PULL BOXES SHALL HAVE MINIMUM 1'-0" WIDE x 6" DEEP CONCRETE APRONS SLOPED AWAY FROM PULL BOX. THE COST OF APRON IS TO BE INCLUDED IN THE COST OF EACH PULL BOX.
3. ALL SPLICES SHALL BE MADE IN PULLBOX PROPERLY TAPED AND WEATHERPROOFED PER NEC REQUIREMENTS.
4. ALL ELECTRICAL PULL BOX COVERS SHALL HAVE THE WORDS "ATMS ELECTRIC" IMPRINTED.



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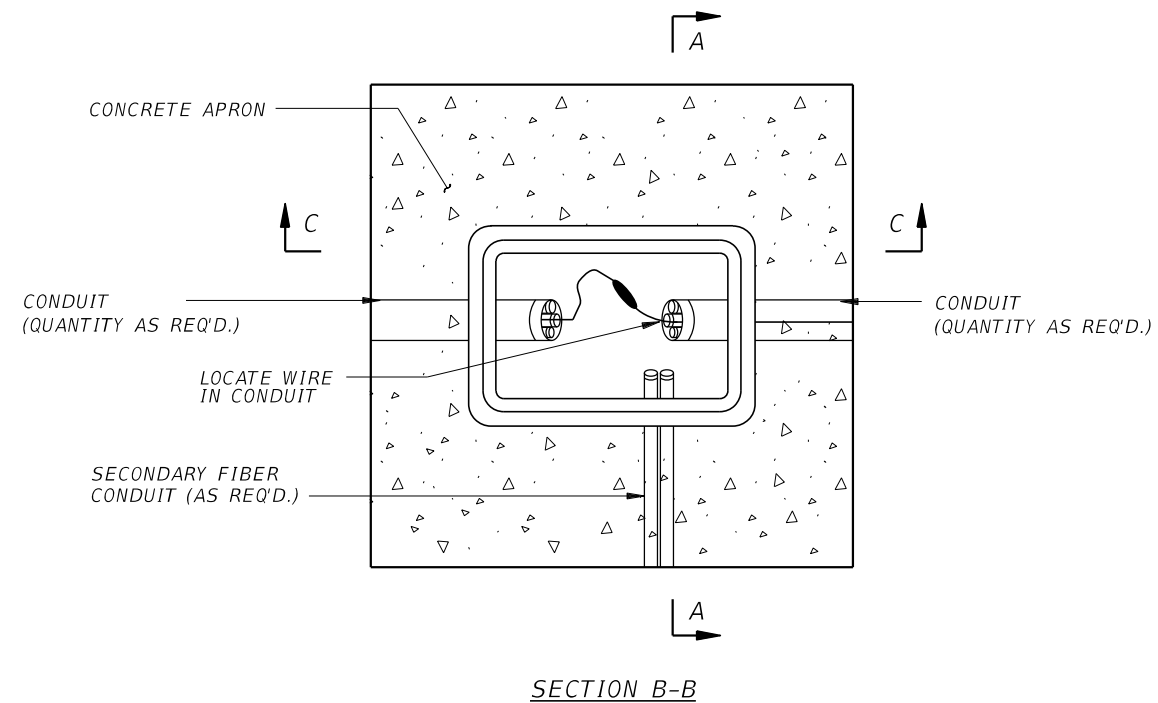


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ELECTRIC PULL BOX DETAIL

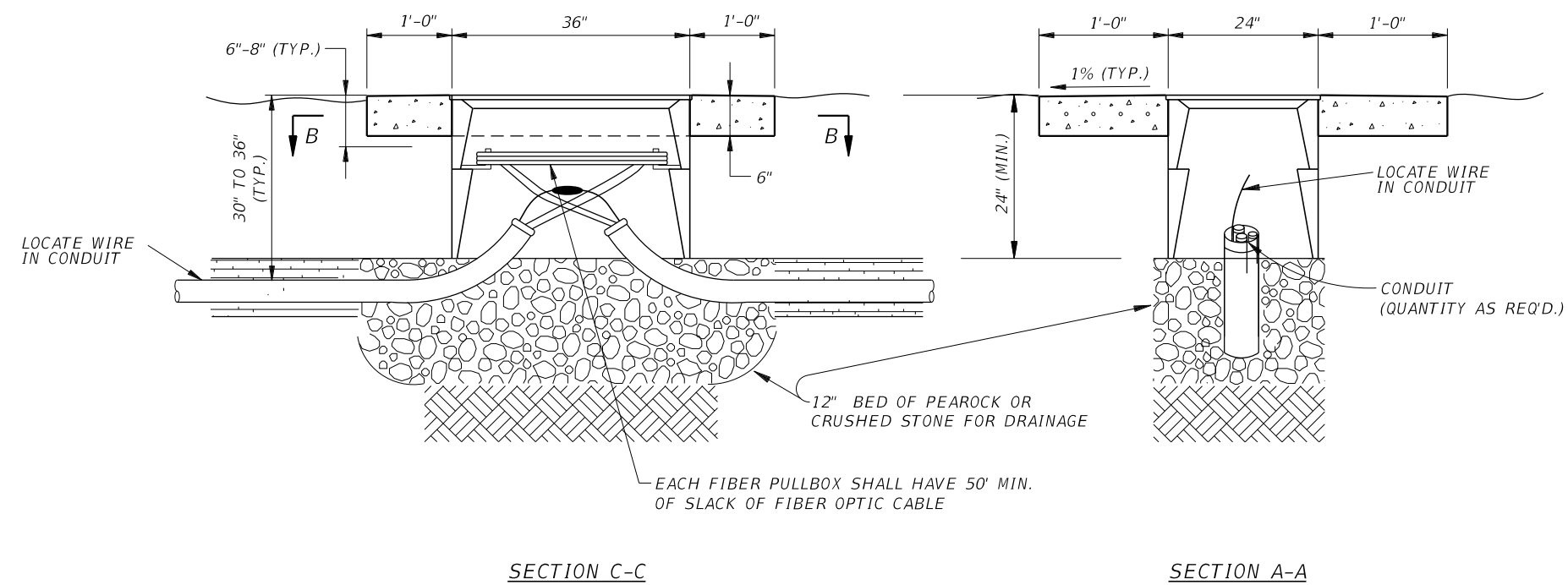
SHEET NO.
 IT-70

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NOTES:

1. CONDUIT C/L SHALL BE ALIGNED TO TOP EDGE OF PULL BOX TO FACILITATE CABLE PULLING.
2. ALL PULL BOXES SHALL HAVE MINIMUM 1'- 0" WIDE x 6" DEEP CONCRETE APRONS SLOPED AWAY FROM PULL BOX. THE COST OF APRON IS TO BE INCLUDED IN THE COST OF EACH PULL BOX.
3. NOTE THAT THE DIMENSIONS SHOWN ARE THE TYPICAL DIMENSIONS AND MANY VARY SLIGHTLY DEPENDING ON THE MANUFACTURER.
4. ALL FIBER PULL BOX & SPLICE VAULT COVERS SHALL HAVE THE WORDS "OSCEOLA COUNTY ATMS" IMPRINTED.



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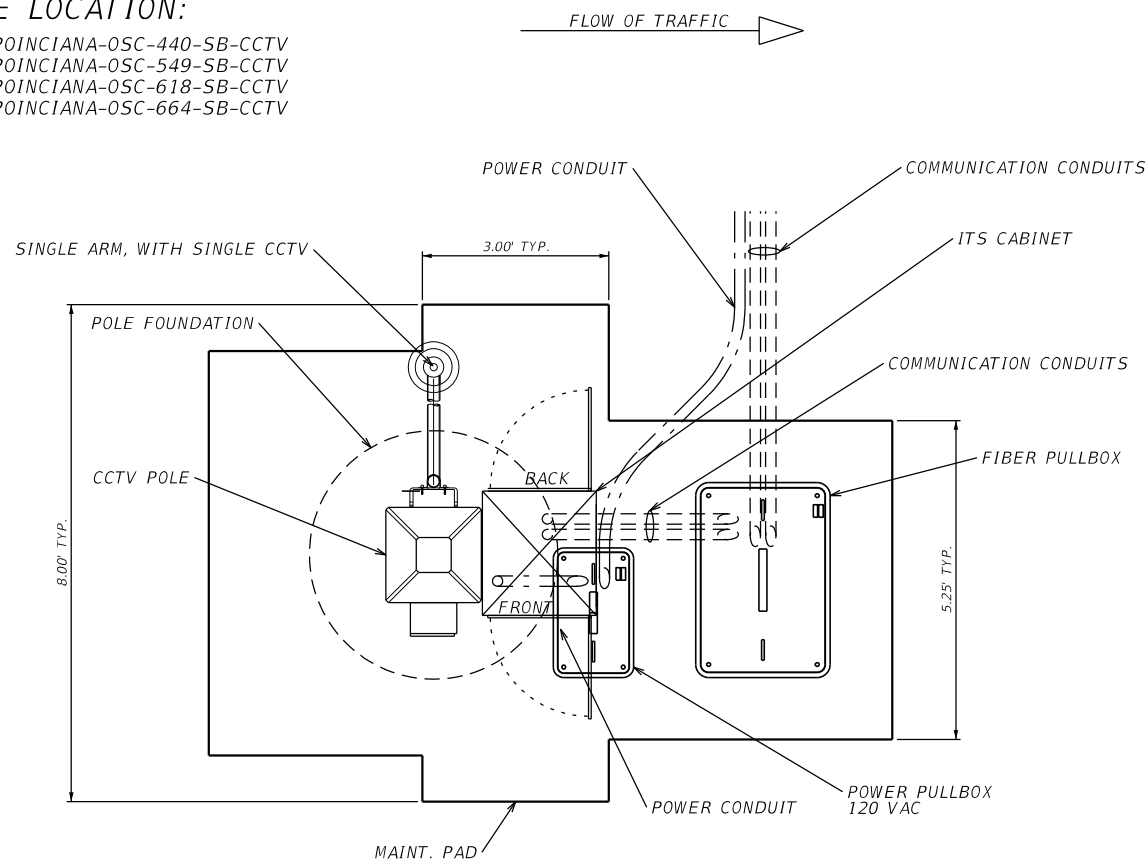
FIBER OPTIC PULL BOX DETAIL

SHEET NO.
 IT-71

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SITE LOCATION:

1. S. POINCIANA-OSC-440-SB-CCTV
2. S. POINCIANA-OSC-549-SB-CCTV
3. S. POINCIANA-OSC-618-SB-CCTV
4. S. POINCIANA-OSC-664-SB-CCTV



TYPICAL CCTV SITE WITH FIBER BOX

- NOTE:
1. SEE PLANS FOR POLE TYPE AND NUMBER OF DEVICES
 2. MAINTENANCE PAD SHALL BE REINFORCED TO PREVENT CRACKING AND SHALL BE A MINIMUM OF 6 INCHES IN DEPTH
 3. FOR SINGLE ARM OPENING FOR CLD SHALL BE 180 DEGREES FROM THE CCTV CAMERA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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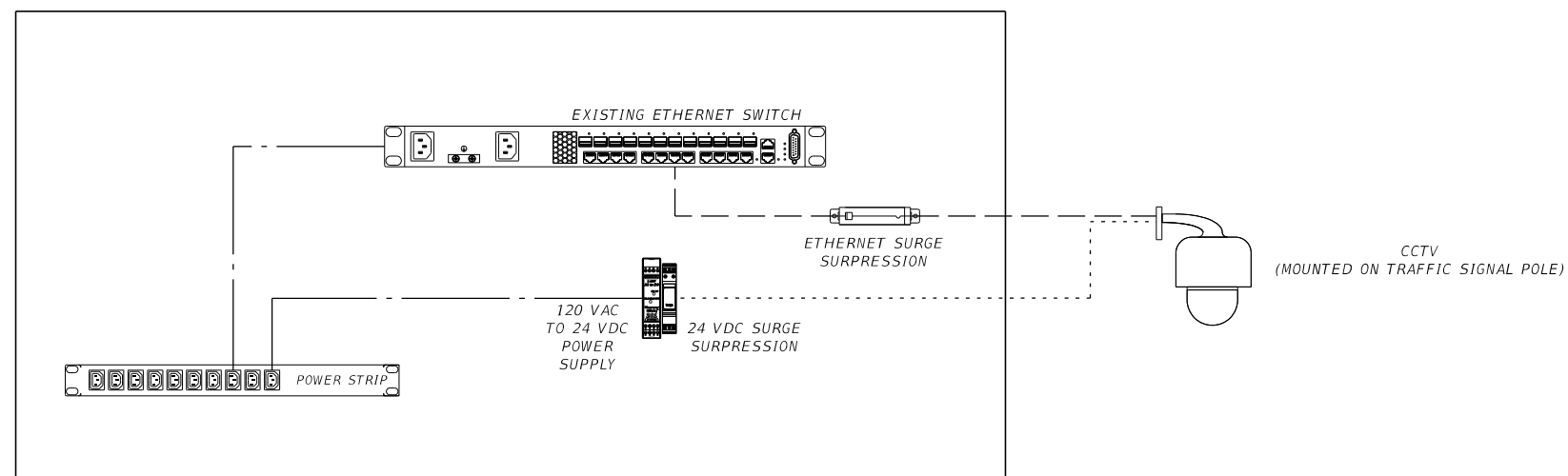
SITE LAYOUT DETAILS

SHEET NO.

IT-72

SITE LOCATION:

1. MASTER HUB (PLEASANT HILL RD & POINCIANA BLVD)
2. S. POINCIANA-OSC-585-NB-CCTV



CCTV POWER AND COMMUNICATIONS SCHEMATIC

NOTE:
A COPPER SFP WILL BE REQUIRED TO CONNECT THE CCTV ETHERNET COMMUNICATIONS TO L3 ROUTER/ATMS NETWORK.
COORDINATE WITH OSCEOLA COUNTY TRANSPORTATION AND TRANSIT FOR PORT ASSIGNMENT AND CONFIGURATION.

LEGEND:

— — — — —	POWER CONDUCTORS
- - - - -	ETHERNET CABLE
.....	24 VDC POWER CABLE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

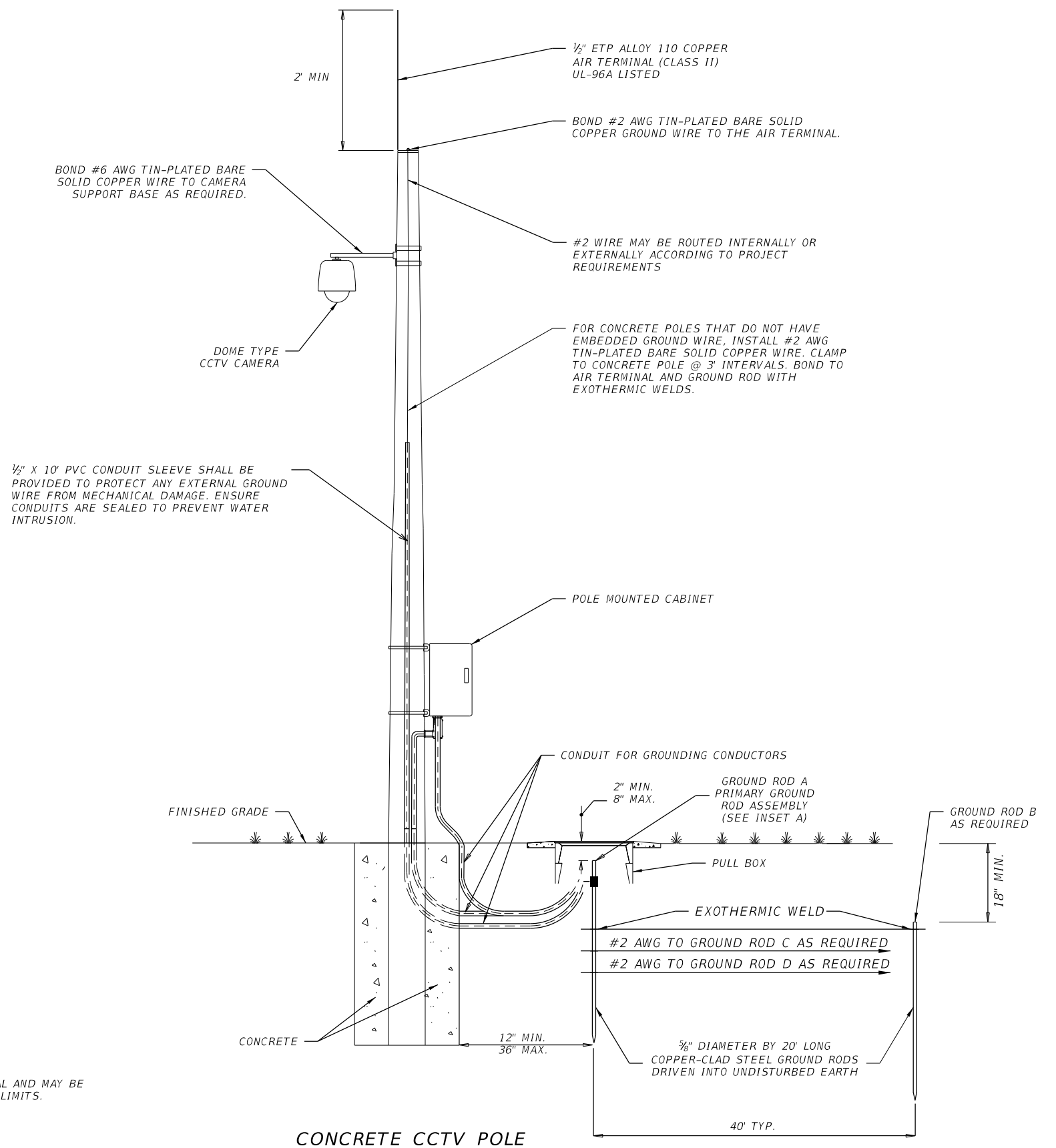
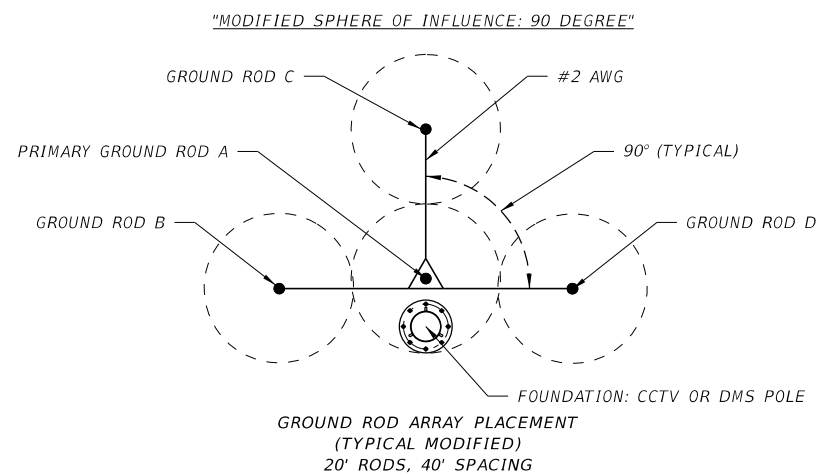
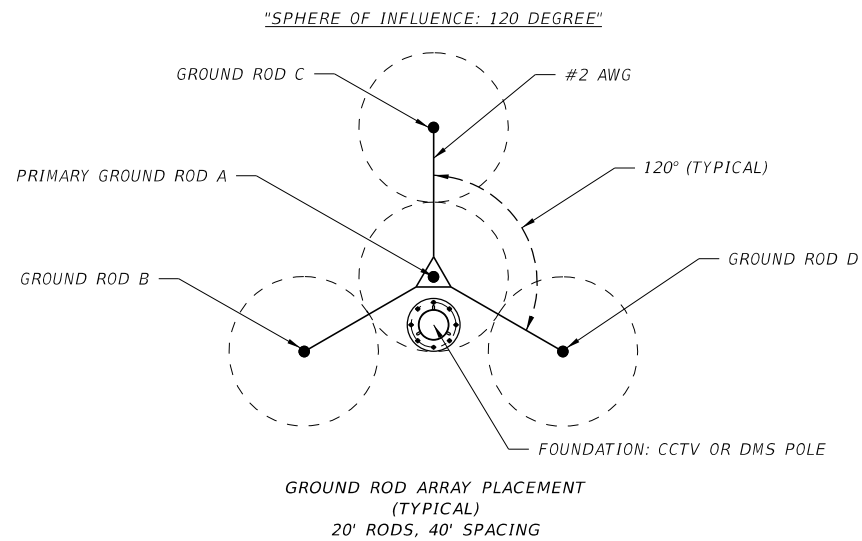
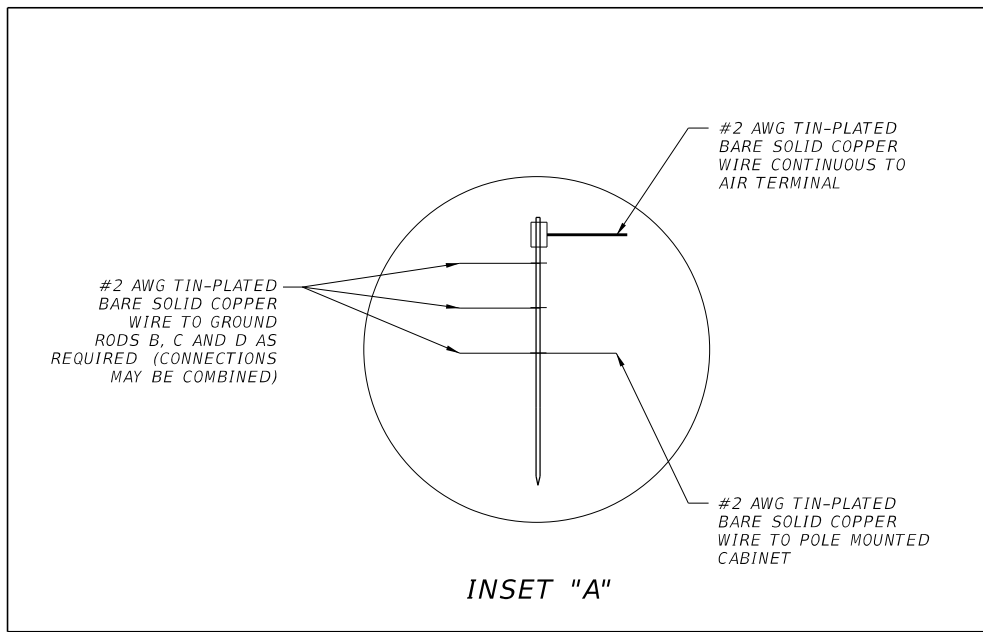
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**CCTV POWER AND
COMMUNICATION SCHEMATIC**

SHEET NO.
IT-73

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**DEVICE GROUNDING
AND LIGHTNING PROTECTION**

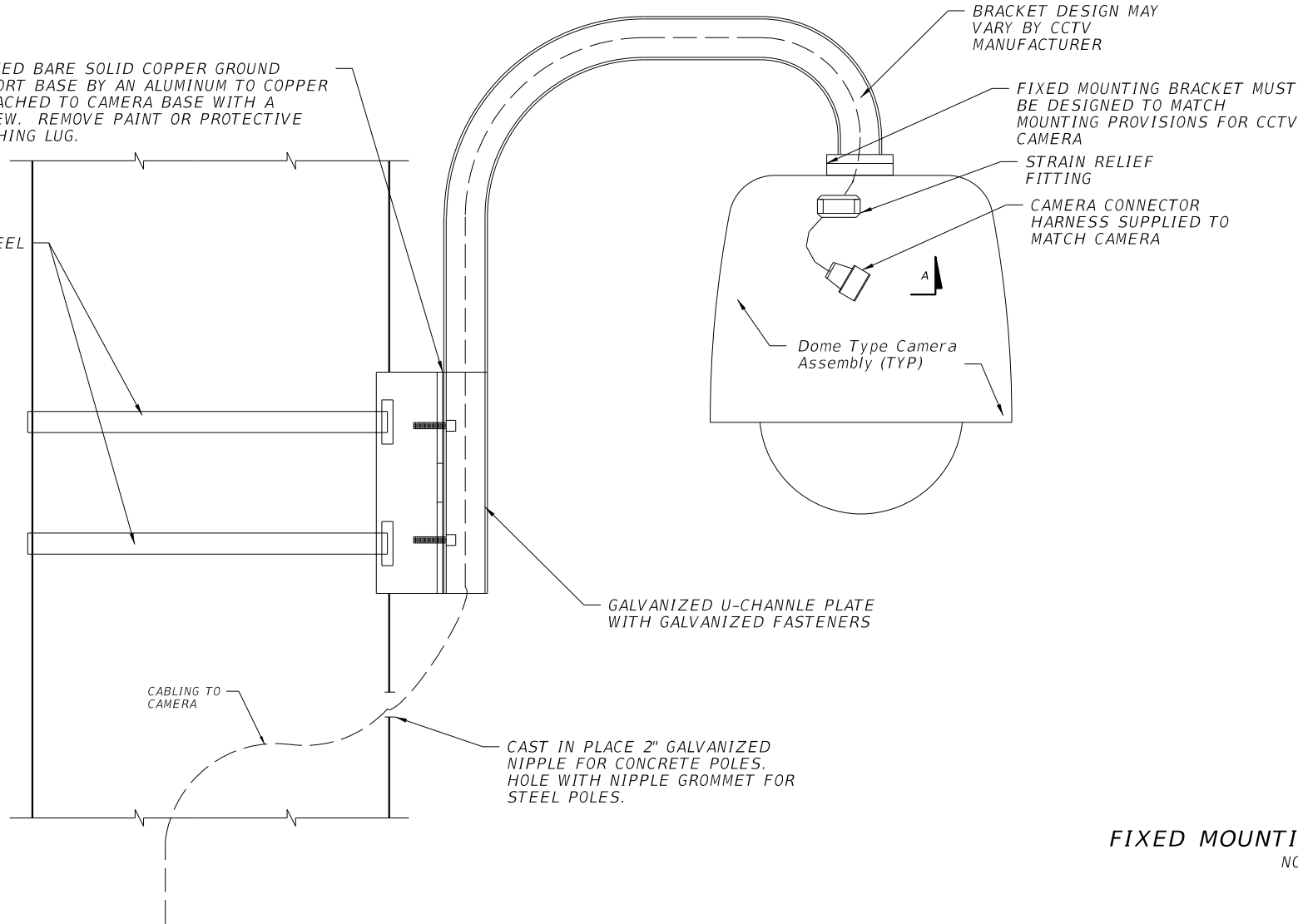
SHEET NO.

IT-74

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BOND #4 AWG TIN-PLATED BARE SOLID COPPER GROUND WIRE TO CAMERA SUPPORT BASE BY AN ALUMINUM TO COPPER #2-#14 AWG LUG. ATTACHED TO CAMERA BASE WITH A STAINLESS STEEL SCREW. REMOVE PAINT OR PROTECTIVE COATING WHERE ATTACHING LUG.

POLE PLATE WITH STAINLESS STEEL BAND (OR METHOD APPROVED BY ENGINEER)



BRACKET DESIGN MAY VARY BY CCTV MANUFACTURER

FIXED MOUNTING BRACKET MUST BE DESIGNED TO MATCH MOUNTING PROVISIONS FOR CCTV CAMERA

STRAIN RELIEF FITTING

CAMERA CONNECTOR HARNESS SUPPLIED TO MATCH CAMERA

Dome Type Camera Assembly (TYP)

GALVANIZED U-CHANNEL PLATE WITH GALVANIZED FASTENERS

CABLING TO CAMERA

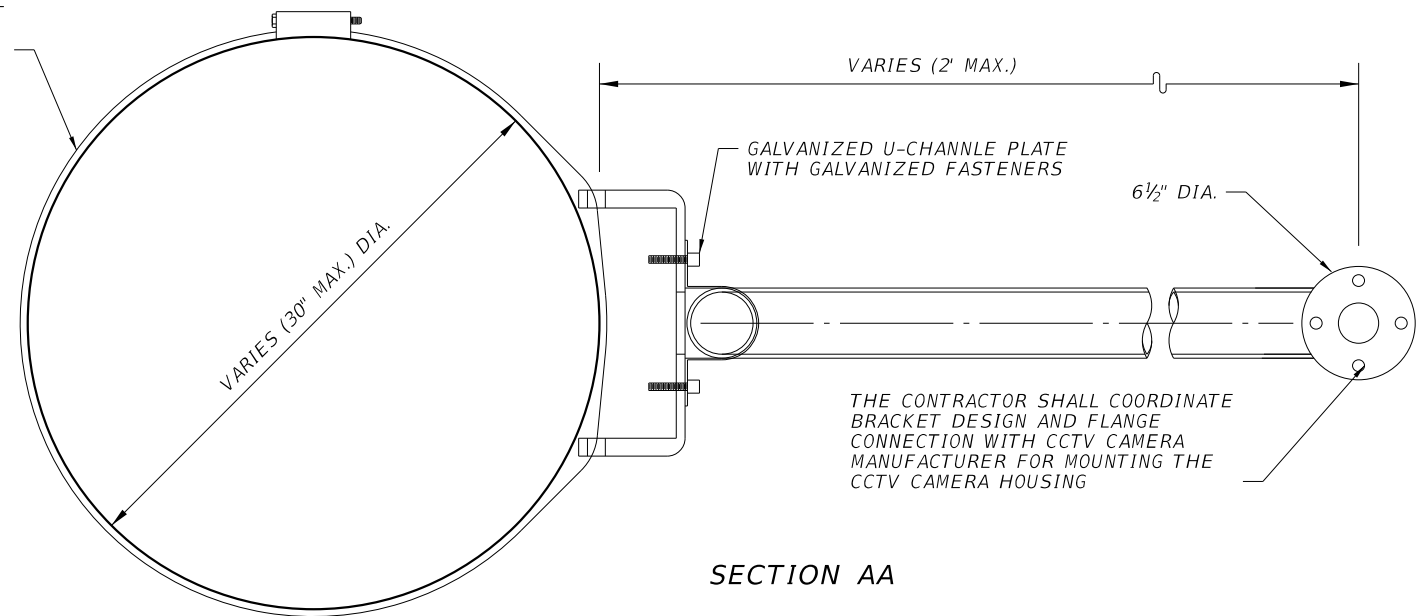
CAST IN PLACE 2" GALVANIZED NIPPLE FOR CONCRETE POLES. HOLE WITH NIPPLE GROMMET FOR STEEL POLES.

GENERAL NOTES:

1. VERIFY THE POLE TYPE, THE DIMENSIONS OF THE POLE AT THE POINT OF INSTALLATION OF THE CAMERA MOUNT, AND ANGLE WITH RESPECT TO THE ROADWAY BEFORE MANUFACTURING CAMERA MOUNT ASSEMBLY.
2. DESIGN CAMERA MOUNTING ARM AND CONNECTION TO THE POLE ACCORDING TO FDOT STRUCTURES MANUAL (CURRENT EDITION).
3. NO FIELD WELDING SHALL BE PERMITTED.
4. MOUNTING BRACKET ARM SHALL BE LEVEL AFTER INSTALLATION.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE PROPOSED FIXED MOUNTING ARM, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, TO THE ENGINEER FOR REVIEW AND APPROVAL.
6. SEE INDEX 641-020 FOR CONCRETE POLE DETAILS AND INDEX 649-020 FOR STEEL POLE DETAILS.
7. GALVANIZED PIPE CONNECTIONS AND CONDUIT ENTRY POINTS SHALL BE SEALED IN ACCORDANCE WITH SPECIFICATION 630.

FIXED MOUNTING BRACKET DETAIL
NOT TO SCALE

POLE PLATE WITH STAINLESS STEEL BAND (OR METHOD APPROVED BY ENGINEER)



SECTION AA

CAMERA MOUNTING WITH FIXED BRACKET

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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**CAMERA MOUNTING BRACKET
DETAIL**

SHEET NO.

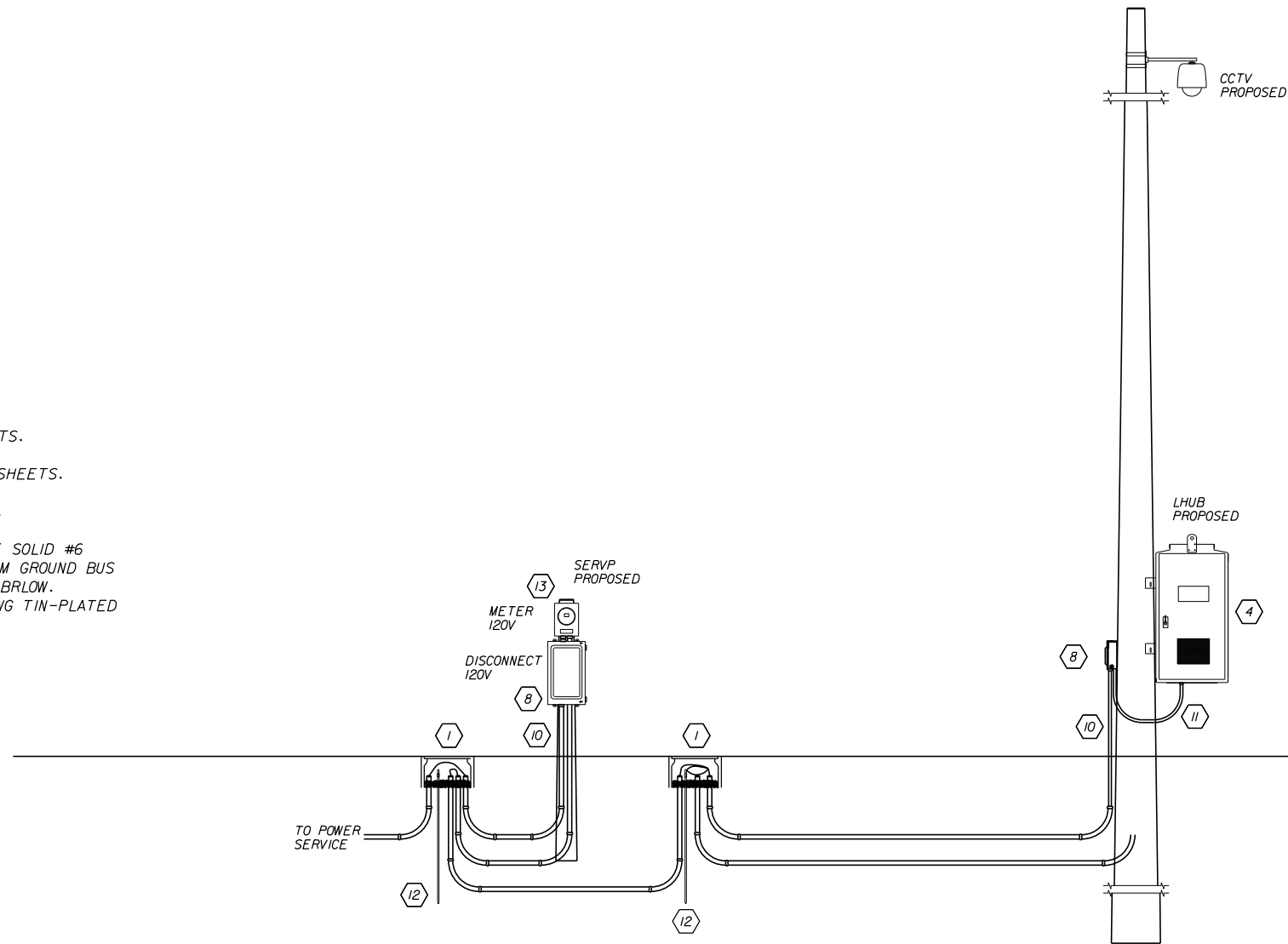
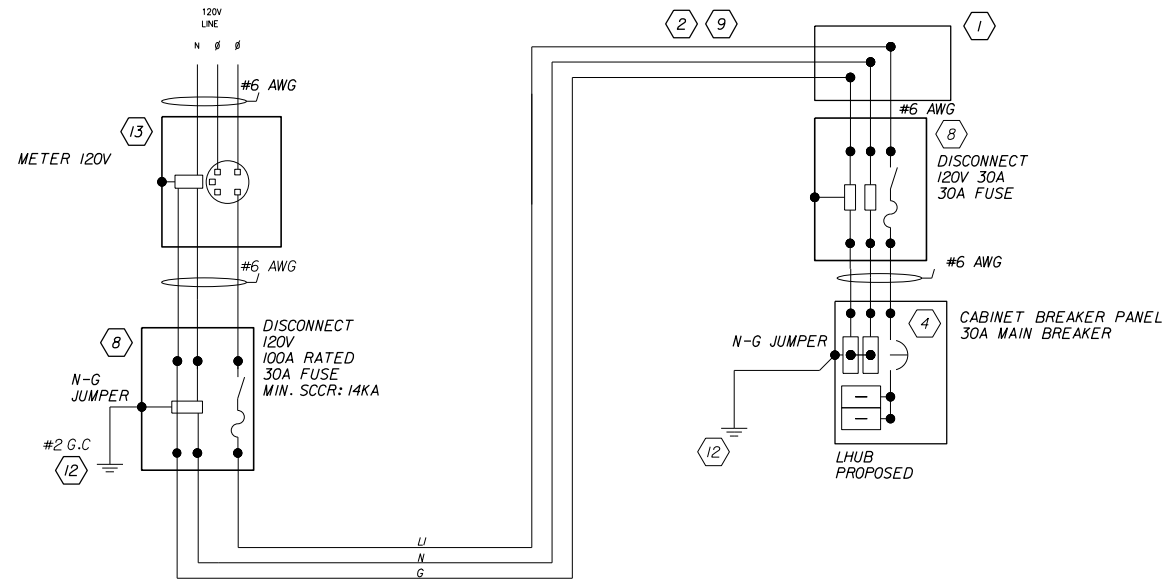
IT-75

KEYED NOTES:

- 1 PULL BOX
- 1X EXISTING PULL BOX
- 2 PROPOSED SERVICE WIRE
- 2X EXISTING SERVICE WIRE
- 3 PROPOSED GENERATOR
- 3X EXISTING GENERATOR
- 4 PROPOSED ITS CABINET W/CIRCUIT BREAKER & SPD
- 4X EXISTING ITS CABINET W/CIRCUIT BREAKER & SPD
- 5 PROPOSED NEMA ENCLOSURE
- 5X EXISTING NEMA ENCLOSURE
- 6 PROPOSED TRANSFORMER
- 6X EXISTING TRANSFORMER
- 7 PROPOSED AUTOMATIC TRANSFER SWITCH
- 7X EXISTING AUTOMATIC TRANSFER SWITCH
- 8 PROPOSED FUSED DISCONNECT
- 8X EXISTING FUSED DISCONNECT
- 9 PROPOSED HDPE CONDUIT
- 9X EXISTING HDPE CONDUIT
- 10 PROPOSED RIGID GALVANIZED STEEL CONDUIT
- 10X EXISTING RIGID GALVANIZED STEEL CONDUIT
- 11 PROPOSED FLEX CONDUIT
- 11X EXISTING FLEX CONDUIT
- 12 PROPOSED COPPER CLAD GROUND ROD(S) 5/8" DIA. x 20' MIN. (PER FDOT INDEX 18102)
- 12X EXISTING COPPER CLAD GROUND ROD(S) 5/8" DIA.
- 13 PROPOSED METER CAN
- 13X EXISTING METER CAN
- 14 PROPOSED DMS SIGN
- 14X EXISTING DMS SIGN
- 15 PROPOSED HUB BREAKER PANEL
- 16 CCTV CABLING

NOTES:

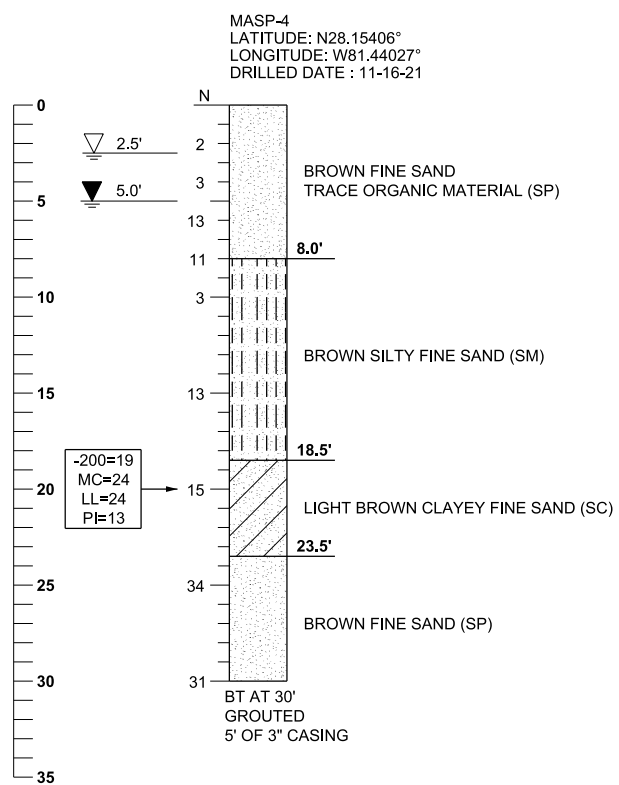
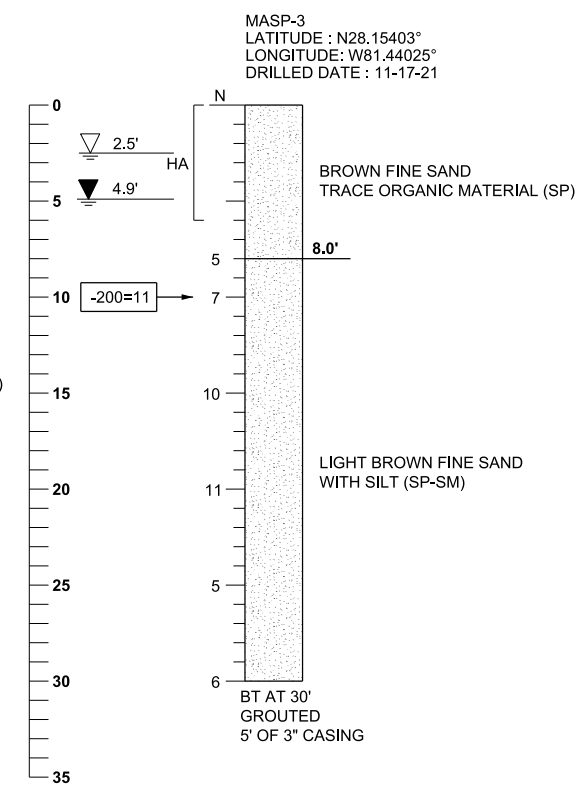
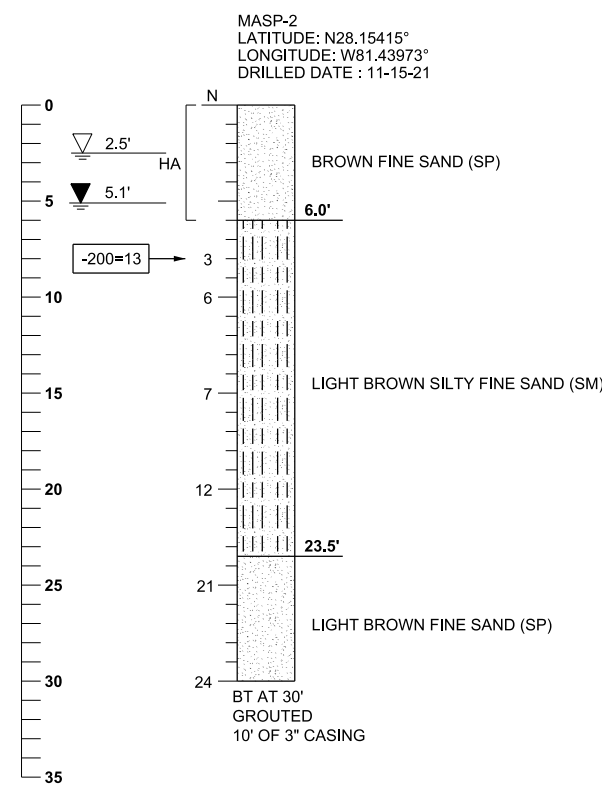
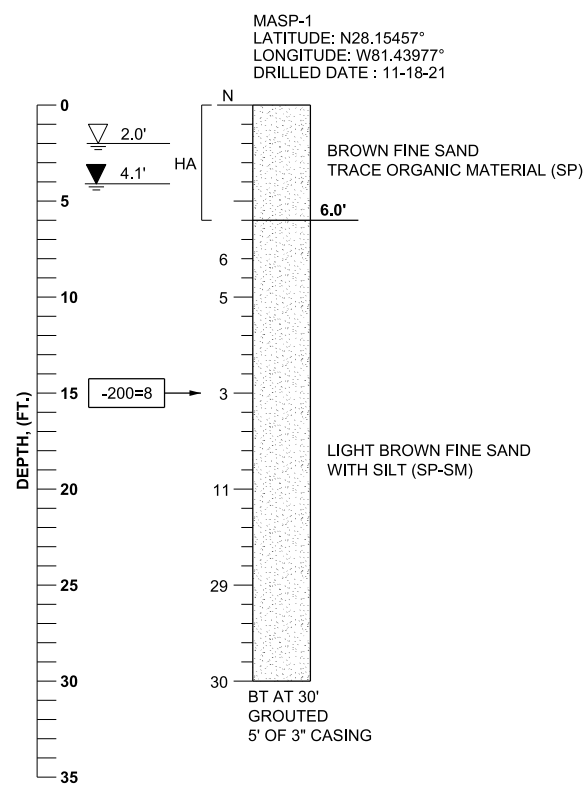
1. CONDUCTOR SIZE AND QUANTITY VARIES. SEE PLAN SHEETS.
2. PULL BOXES LOCATION AND QUANTITY VARIES. SEE PLAN SHEETS.
3. CONDUIT SIZE AND QUANTITY VARIES. SEE PLAN SHEETS.
4. GROUNDING CONDUCTOR: FOR ITS ELECTRICAL SYSTEM USE SOLID #6 AWG COPPER INSULATED (GREEN) CONDUCTOR FROM SYSTEM GROUND BUS TO GROUNDING ELECTRODE ASSEMBLY OR AS SPECIFIED BRLW. FOR CONCRETE POLES AND DMS STRUCTURES USE #2 AWG TIN-PLATED BARE SOLID COPPER WIRE PER FDOT INDEX 18102.



TYPICAL

REVISIONS				ERIK SPILLMANN, P.E. NO. 58771 BCC ENGINEERING, LLC. 160 N. WESTMONTE DRIVE, SUITE 2000 ALTAMONTE SPRINGS, FLORIDA 32714	OSCEOLA COUNTY TRANSPORTATION AND TRANSIT 1 Courthouse Square, Suite 3100 Kissimmee, Florida 34741 (407) 742-0552 Fax: (407) 742-0560	ELECTRICAL SERVICE DETAILS		SHEET NO. IT-76
DATE	DESCRIPTION	DATE	DESCRIPTION					

PLEASANT HILL ROAD



LEGEND

SAND
SAND & SILT
SAND AND CLAY

3.5' APPROXIMATE SEASONAL HIGH GROUND WATER LEVEL (FT.)
5.5' APPROXIMATE ENCOUNTERED GROUNDWATER LEVEL AT TIME OF DRILLING (FT.)
HA: HAND AUGERED FOR UTILITY CLEARANCE
BT: BORING TERMINATED
N: STANDARD PENETRATION RESISTANCE BLOWS PER FOOT
(SP): UNIFIED SOIL CLASSIFICATION SYMBOL
-200: PERCENT PASSING NUMBER 200 U.S. STANDARD SIEVE
MC: PERCENT NATURAL MOISTURE CONTENT
LL: LIQUID LIMIT
PI: PLASTICITY INDEX

SPT - STANDARD PENETRATION TEST
STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586

SPLIT SPOON SAMPLER:
INSIDE DIAMETER : 1.375"
OUTSIDE DIAMETER : 2.0"
AVERAGE HAMMER DROP : 30"
HAMMER WEIGHT : 140 lb

NOTE:
1. THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS, DEPTHS AND DATES INDICATED. SOIL CONDITIONS AND GROUNDWATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM THE CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF THE CONDITIONS AT THESE BORING LOCATIONS.

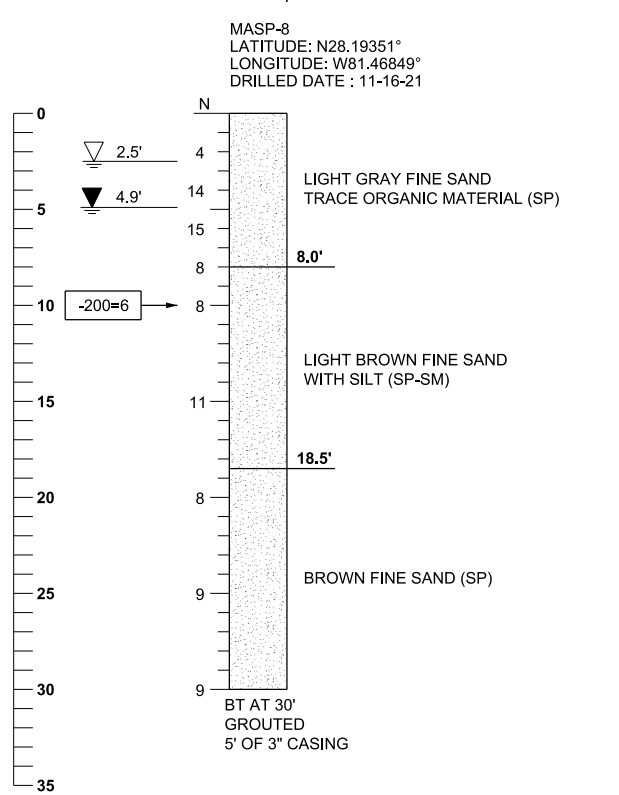
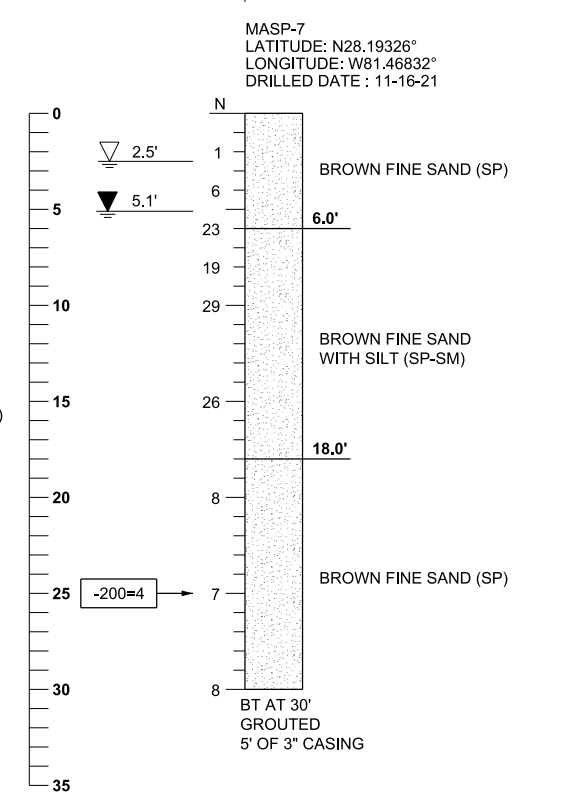
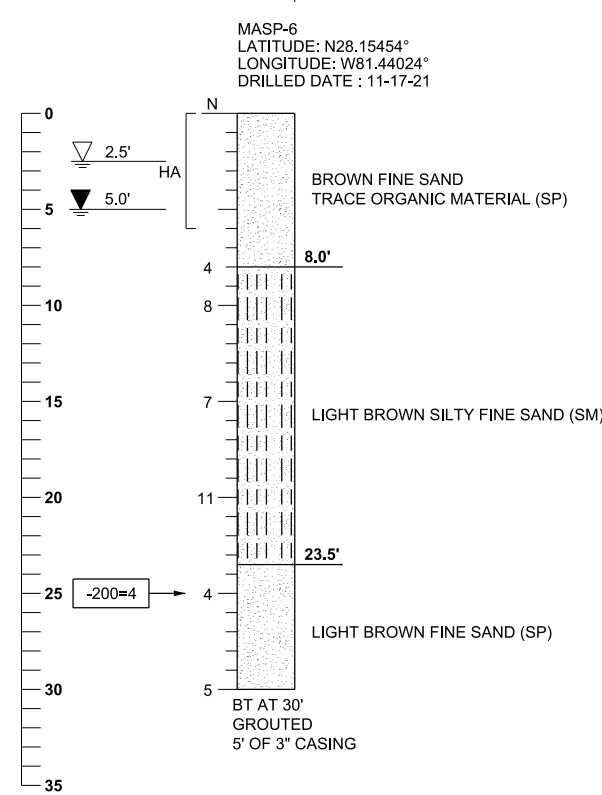
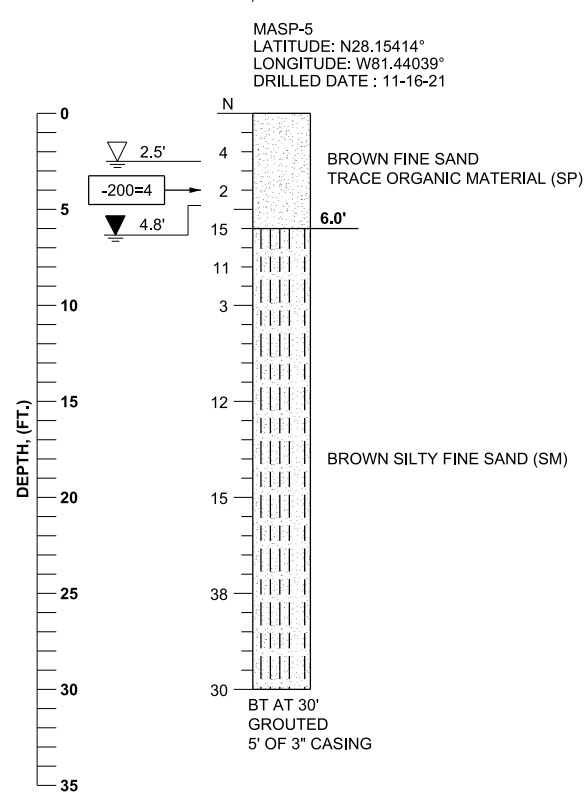
THE BORING LOCATIONS WERE NOT SURVEYED. BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A HANDHELD SUBMETER ACCURACY GPS UNIT.

SPT HAMMER TYPE: AUTOMATIC

GRANULAR:SAND	
RELATIVE DENSITY	SPT N-VALUE (BLOWS/12 INCHES)
VERY LOOSE	0-3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	OVER 40

NON-GRANULAR:SILTS, CLAYS, MUCK AND PEAT	
CONSISTENCY	SPT N-VALUE (BLOWS/12 INCHES)
VERY SOFT	0-1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	OVER 24

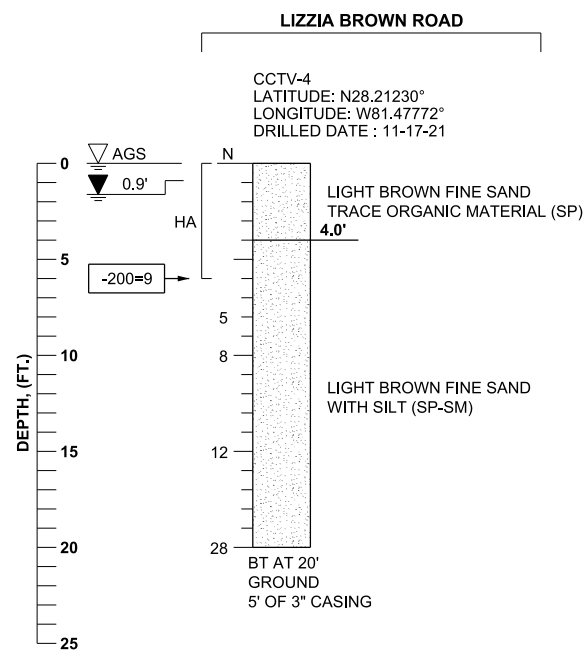
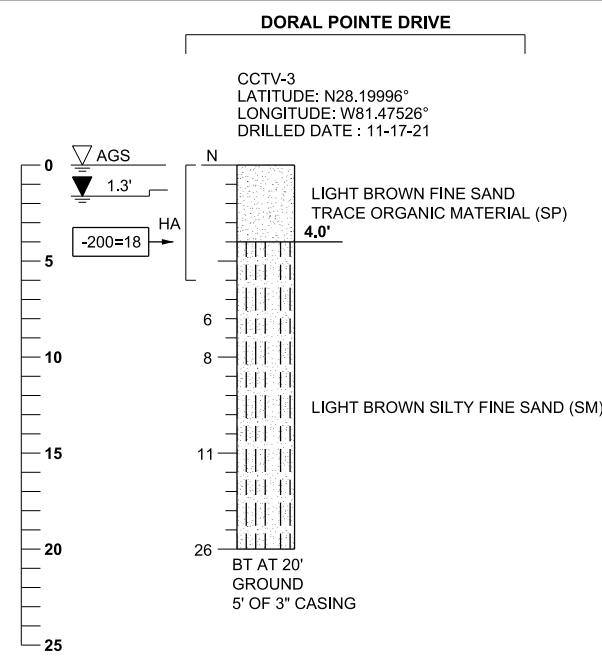
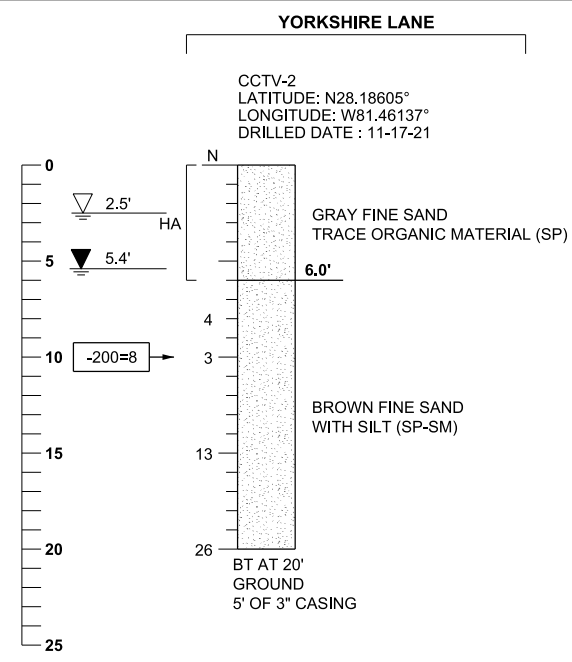
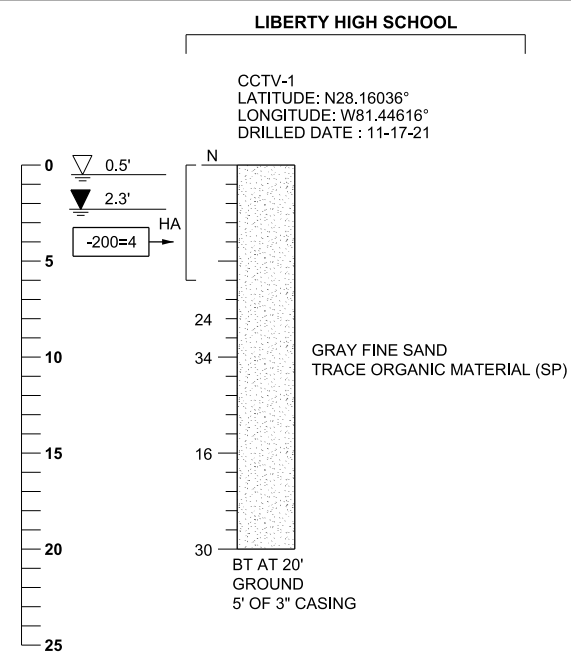
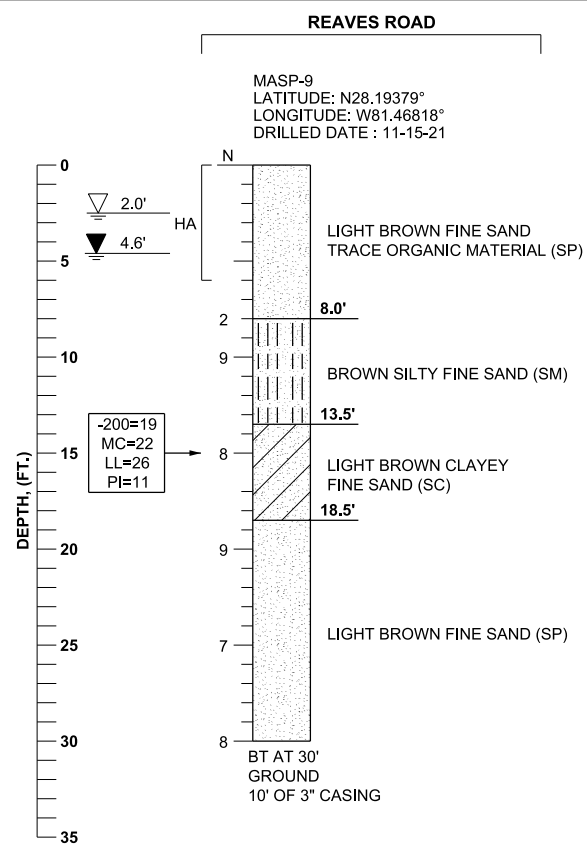
PLEASANT HILL ROAD



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GPB
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SOIL BORING RESULTS
POINCIANA BOULEVARD WIDENING - MASP'S & CCTV'S



LEGEND

	SAND		SAND & SILT		SAND AND CLAY
--	------	--	-------------	--	---------------

∇ AGS APPROXIMATE SEASONAL HIGH GROUND WATER LEVEL ABOVE GROUND SURFACE
 ∇ 3.5' APPROXIMATE SEASONAL HIGH GROUND WATER LEVEL (FT.)
 ∇ 5.5' APPROXIMATE ENCOUNTERED GROUNDWATER LEVEL AT TIME OF DRILLING (FT.)
 HA: HAND AUGERED FOR UTILITY CLEARANCE
 BT: BORING TERMINATED
 N: STANDARD PENETRATION RESISTANCE BLOWS PER FOOT
 (SP): UNIFIED SOIL CLASSIFICATION SYMBOL
 -200: PERCENT PASSING NUMBER 200 U.S. STANDARD SIEVE
 MC: PERCENT NATURAL MOISTURE CONTENT
 LL: LIQUID LIMIT
 PI: PLASTICITY INDEX

SPT - STANDARD PENETRATION TEST
 STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586

SPLIT SPOON SAMPLER:
 INSIDE DIAMETER : 1.375"
 OUTSIDE DIAMETER : 2.0"
 AVERAGE HAMMER DROP : 30"
 HAMMER WEIGHT : 140 lb

NOTE:
 1. THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS, DEPTHS AND DATES INDICATED. SOIL CONDITIONS AND GROUNDWATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM THE CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF THE CONDITIONS AT THESE BORING LOCATIONS.

THE BORING LOCATIONS WERE NOT SURVEYED. BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A HANDHELD SUBMETER ACCURACY GPS UNIT.

SPT HAMMER TYPE: AUTOMATIC

GRANULAR:SAND	
RELATIVE DENSITY	SPT N-VALUE (BLOWS/12 INCHES)
VERY LOOSE	0-3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	OVER 40

NON-GRANULAR:SILTS, CLAYS, MUCK AND PEAT	
CONSISTENCY	SPT N-VALUE (BLOWS/12 INCHES)
VERY SOFT	0-1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	OVER 24

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