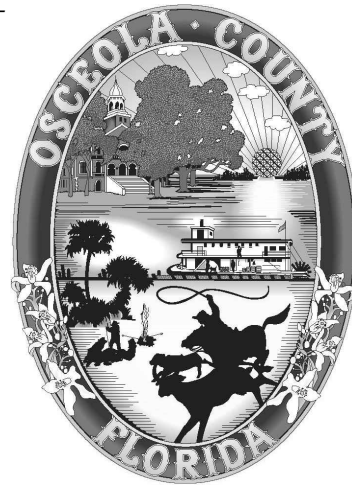


COMPONENTS OF CONTRACT PLANS SET

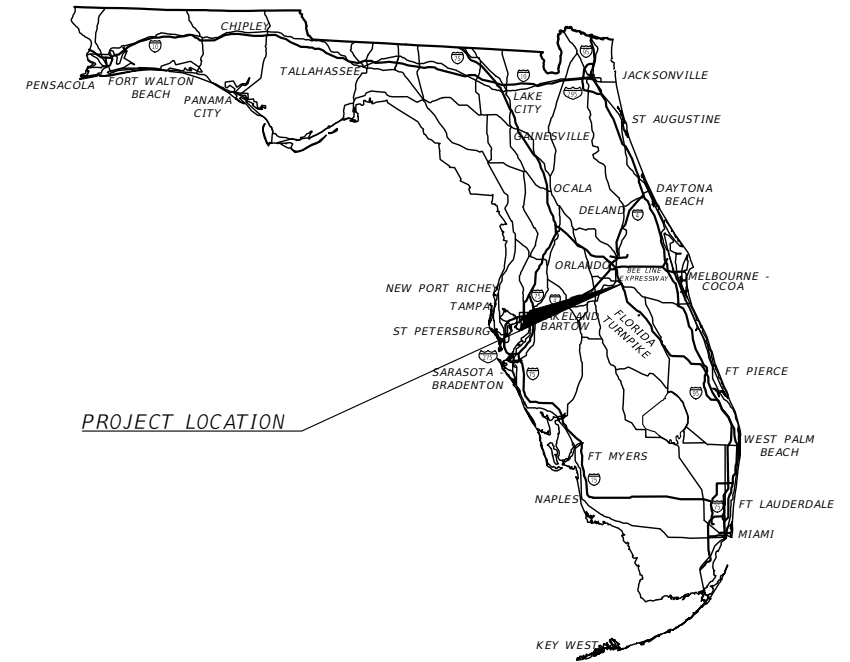
- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS
- ITS PLANS
- LIGHTING PLANS



OSCEOLA COUNTY, FLORIDA  
PUBLIC WORKS DEPARTMENT

INTELLIGENT  
TRANSPORTATION  
SYSTEMS PLANS

SIMPSON RD - SOUTH SEGMENT  
IMPROVEMENT PLANS



INDEX OF ITS PLANS

SHEET NO.	SHEET DESCRIPTION
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IT-5	GENERAL NOTES
IT-6	PROJECT LAYOUT
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IT-34	CAMERA MOUNTING BRACKET DETAIL
IT-35	CCTV CAMERA LOWERING DEVICE
IT-36	POLE DATA SHEET
IT-37	SPT BORING RESULTS FOR CCTV POLE

OSCEOLA COUNTY TRANSPORTATION AND TRANSIT

BRANDON ARRINGTON	CHAIRMAN OF THE BOARD OF COUNTY COMMISSIONERS
VIVIANA JANER	VICE CHAIRWOMAN OF THE BOARD OF COUNTY COMMISSIONERS
PEGGY CHOUDHRY	COUNTY COMMISSIONER
RICKY BOOTH	COUNTY COMMISSIONER
CHERYL GRIEB	COUNTY COMMISSIONER
DON FISHER	COUNTY MANAGER
TAWNY H OLORE, P.E.	DIRECTOR OF TRANSPORTATION AND TRANSIT

GOVERNING STANDARD PLANS:  
Florida Department of Transportation, FY2022-23 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.shtm>

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

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


**FINAL PLANSET**  
**DATE: JANUARY 16, 2023**

OSCEOLA COUNTY PROJECT MANAGER: STEVEN KANE, PE

SHOP DRAWINGS TO BE SUBMITTED TO:

JARED KNIGHT, P.E.  
VANASSE HANGEN BRUSTLIN, INC.  
225 E. ROBINSON STREET, SUITE 300  
ORLANDO, FL 32801

PLANS PREPARED BY:

 Engineers | Scientists  
Planners | Designers  
225 E. Robinson Street, Suite 300  
Orlando, FL 32801 (407)839-4006  
Certificate of Authorization # 3932

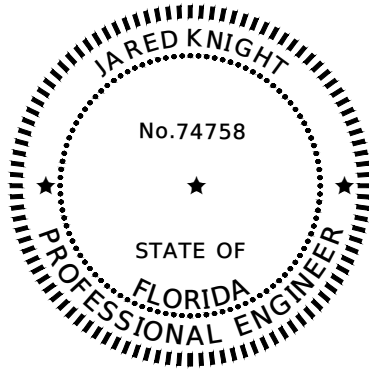
NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

ITS PLANS  
PROFESSIONAL OF RECORD: JARED KNIGHT, P.E.

P.E. NO.: 74758

FISCAL YEAR	SHEET NO.
22	IT-1

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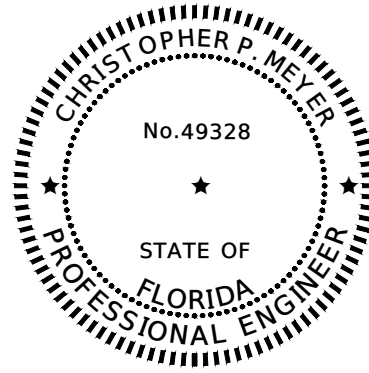
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VANASSE HANGEN BRUSTLIN, INC.  
TRANSPORTATION, LAND DEVELOPMENT,  
ENVIRONMENTAL SERVICES  
225 E. ROBINSON ST., SUITE 300  
LANDMARK CENTER TWO  
ORLANDO, FL 32801  
CERTIFICATE OF AUTHORIZATION #3932  
JARED KNIGHT, P.E. NO. 74758

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

INTELLIGENT TRANSPORTATION SYSTEM PLANS

SHEET NO.	SHEET DESCRIPTION
IT-1	KEY SHEET
IT-2	SIGNATURE SHEET
IT-3 - IT-4	TABULATION OF QUANTITIES
IT-5	GENERAL NOTES
IT-6	PROJECT LAYOUT
IT-7 - IT-17	ITS PLAN SHEET
IT-18 - IT-19	ITS CABINET DETAIL
IT-20 - IT-27	SPLICE DIAGRAM
IT-28	ETHERNET SWITCH DETAIL
IT-29	POWER SERVICE DETAILS
IT-30	TRENCHING AND PLOWING DETAILS
IT-31	FIBER OPTIC SPLICE BOX DETAIL
IT-32	ELECTRICAL PULL BOX DETAIL
IT-33	FIBER PULL BOX DETAIL
IT-34	CAMERA MOUNTING BRACKET DETAIL
IT-35	CCTV CAMERA LOWERING DEVICE



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

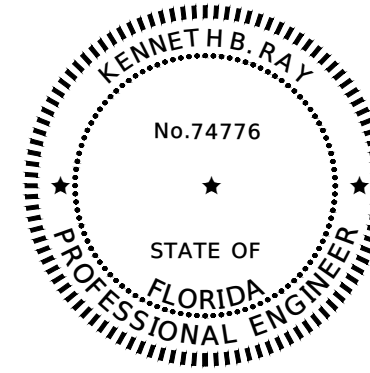
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GEOTECHNICAL AND ENVIRONMENTAL  
CONSULTANTS, INC.  
2510 MICHIGAN AVENUE, SUITE D  
KISSIMMEE, FL 34744-1933  
CHRISTOPHER P. MEYER, P.E. NO. 49328

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

INTELLIGENT TRANSPORTATION SYSTEM PLANS

SHEET NO.	SHEET DESCRIPTION
IT-2	SIGNATURE SHEET
IT-37	SPT BORING RESULTS FOR CCTV POLE



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TRANSPORTATION, LAND DEVELOPMENT,  
ENVIRONMENTAL SERVICES  
225 E. ROBINSON ST., SUITE 300  
LANDMARK CENTER TWO  
ORLANDO, FL 32801  
CERTIFICATE OF AUTHORIZATION #3932  
KENNETH B. RAY, P.E. NO. 74776

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INTELLIGENT TRANSPORTATION SYSTEM PLANS

SHEET NO.	SHEET DESCRIPTION
IT-2	SIGNATURE SHEET
IT-36	POLE DATA SHEET

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



OSCEOLA COUNTY  
FLORIDA

*SIGNATURE SHEET*

SHEET NO.

IT-2

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TABULATION OF QUANTITIES

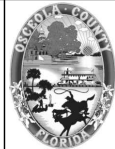
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL		
			IT-7		IT-8		IT-9		IT-10		IT-11		IT-12		IT-13		PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	205				15								7		655		882		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	415		725		200				250		828				85		2,503		
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	770		775		745			625		820		925			980		5,640		
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF								665									665		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	96								12		12			12		132			
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	1								1		1			1		4			
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA																			
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA									1		1			1		3			
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA	1															1			
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF	40															40			
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		1						1			1		5			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA									1		1			1		3			
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									185							185			
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA									1							1			
641-2-11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 PEDESTAL	EA									1							1			
641-3-169	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 69'	EA									1							1			
660-6-121	VEHICLE DETECTION SYSTEM- AV1, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	1															1			
660-6-122	VEHICLE DETECTION SYSTEM- AV1, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	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			1		3			
682-1-400	ITS CCTV CAMERA, RELOCATE	EA	1															1			
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA									1		1			1		3			
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA									1							1			

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



Engineers | Scientists  
Planners | Designers  
225 E. Robinson Street, Suite 300  
Orlando, FL 32801 (407)839-4006  
Certificate of Authorization # 3932  
Jared Knight, P.E.  
PE # 74758



OSCEOLA COUNTY  
FLORIDA

TABULATION OF QUANTITIES

SHEET NO.  
IT-3

TABULATION OF QUANTITIES

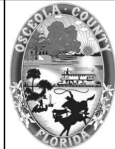
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			IT-14		IT-15		IT-16		IT-17								PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF																	882	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	725		286													1,011		3,514
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	775		436													1,211		6,851
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF																		665
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA			72		36		22									130		262
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA			1													1		5
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA					2		2									4		4
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA																		3
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA					2		2									4		5
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF																		40
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA																		2
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1		1													2		7
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA			1													1		4
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		1
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		185
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		1
641-2-11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 PEDESTAL	EA																		1
641-3-169	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 69'	EA																		1
660-6-121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA																		1
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682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA																		3
682-1-400	ITS CCTV CAMERA, RELOCATE	EA																		1
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA																		3
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA																		1

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



Engineers | Scientists  
Planners | Designers  
225 E. Robinson Street, Suite 300  
Orlando, FL 32801 (407)839-4006  
Certificate of Authorization # 3932  
Jared Knight, P.E.  
PE # 74758



OSCEOLA COUNTY  
FLORIDA

TABULATION OF QUANTITIES

SHEET NO.  
IT-4

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. END OF REEL SPLICES SHALL OCCUR AT A SPLICE VAULT THAT IS ADJACENT TO A LHUB. SPACING BETWEEN END OF REEL SPLICES SHALL BE NO LESS THAN 25,000 LF APART.
3. 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 SUBMITTAL'S REQUIRED FOR THIS PROJECT. THE COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE FIBER OPTIC CABLE AND ITS DEVICES.
4. 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.
5. CONTRACTOR MUST WEED EAT, MOW AND REMOVE LITTER AROUND EQUIPMENT STAGING AREAS UNTIL WORK HAS BEEN COMPLETED (I.E. POLES, CONDUIT RUNS, ETC.). THE CONTRACTOR SHALL MARK THIS AREA AND WILL BE EXPECTED TO MAINTAIN THE AREA IN ADDITION TO ANY OTHER AREAS THAT THE CONTRACTOR FEELS COULD BE IMPACTED BY MOWERS. THE CONTRACTOR SHALL PROPERLY MARK THESE AREAS (CONES OR STAKES WITH MARKING TAPE AROUND THE PERIMETER). THE PERIMETER SHALL CONSIST OF A 5' RADIUS AROUND ITS AND SERVICE POLES IN ADDITION. A 5' STRIP SHALL BE MAINTAINED ON EACH SIDE OF CONDUIT AND TRENCHING RUNS.
6. SOD MUST BE USED TO RESTORE ANY AREAS IMPACTED BY CONSTRUCTION. THE COST OF REQUIRED SOD SHALL BE INCIDENTAL TO THE PAY ITEMS.
7. CONTRACTOR SHALL NOTIFY OSCEOLA COUNTY TMC (407-742-9201) OF NETWORK DOWNTIME AND ALL SPLICING ACTIVITIES OCCURRING WITHIN THE PROJECT LIMITS, AND DURATION OF THOSE SPLICING ACTIVITIES WITHIN 24 HOURS OF SPLICING ANY FOC.
8. REMOVAL OF ALL EXISTING FIBER SHALL BE INCLUDED IN CLEARING AND GRUBBING UNLESS OTHERWISE SHOWN IN THE PLANS.

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. TERMINATE ALL SPARE CONDUITS IN A PULL BOX OR CABINET AND CAP AND SEAL ENDS.
8. WHERE CONDUIT IS CALLED OUT TO BE INTERCEPTED, THE CONDUIT SHALL BE REDIRECTED AND TIED INTO THE PROPOSED CONDUIT. THE PROPOSED NEW CABLING (FOC OR COMPOSITE) IS NOT TO RUN THROUGH THE EXISTING PULL BOXES IN THESE CASES, COST ARE INCIDENTAL TO THE PAY ITEMS.

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 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 DESCRIPTION:

1. 633-1-620: CONTRACTOR SHALL USE PAY ITEM TO REMOVE EXISTING FIBER AT LOCATIONS AS CALLED OUT IN THE PLANS WHERE FIBER IS TO BE TAKEN OUT OF SERVICE BEYOND THE LIMITS OF CLEARING AND GRUBBING.
2. 633-3-15: PAY ITEM INCLUDES COST OF PRETERMINATED 12 SM PIGTAILS AND FIBER JUMPERS. PIGTAILS SHALL HAVE 100' OF SLACK AT SPLICE PULL BOX AND 50' OF SLACK AT FIBER PULL BOX.
3. 633-8-1: CONTRACTOR SHALL FURNISH AND INSTALL 1- CAT5 CABLE AND 1- 14 AWG, 3 CONDUCTOR CABLE. QUANTITY OF PAY ITEM IS PER LENGTH OF WIRE RUN, NOT PER CABLE TYPE.
4. 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.
5. 660-6-121: CONTRACTOR SHALL FURNISH AND INSTALL AN ITERIS VANTAGE VELOCITY BLUETOOTH READER.
6. 660-6-122: CONTRACTOR SHALL FURNISH AND INSTALL AN BLUETOOTH ANTENNA AND ALL CABLING. PAY ITEM INCLUDES ALL LABOR AND MATERIALS FOR MOUNTING AND INSTALLING ANTENNA ON TRAFFIC AND ITS CABINETS.
7. 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, MOUNTING HARDWARE).
8. 684-1-1: CONTRACTOR SHALL FURNISH AND INSTALL AN ITS EXPRESS 8042-V3 OR APPROVED EQUAL. 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. REQUEST FOR NETWORK INFORMATION WILL BE REQUESTED 14 DAYS PRIOR TO INSTALLATION.

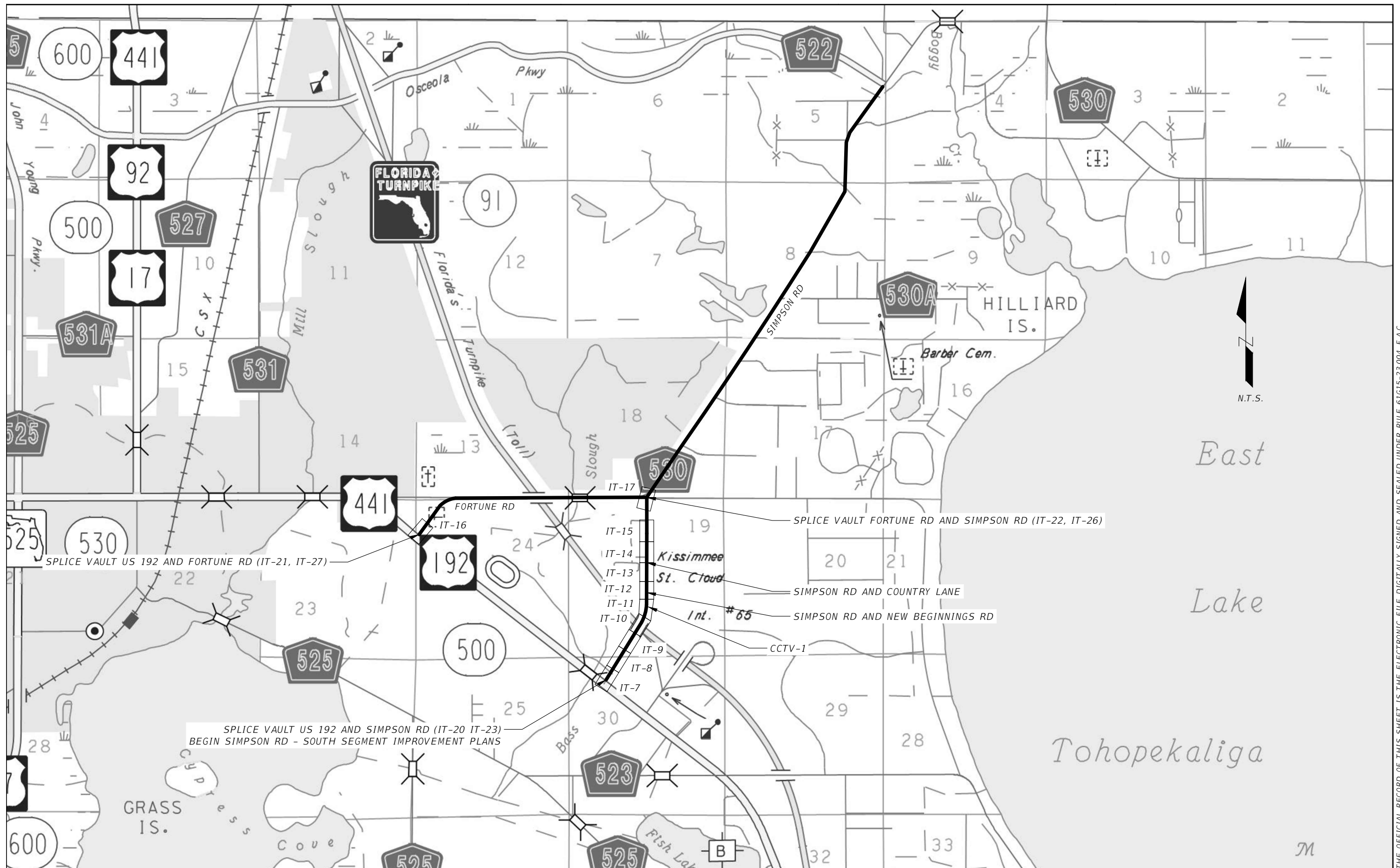
UTILITY NOTES:

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

LEGEND	
SYMBOLS	DESCRIPTION
--- · · · · · ---	BRIDGE MOUNTED CONDUIT
--- · · · · · ---	INSTALL NEW UNDERGROUND HDPE CONDUIT
--- · · · · · ---	INSTALL NEW DIRECTIONAL BORE HDPE CONDUIT
	PROPOSED CCTV
	PROPOSED BLUE TOOTH DEVICE
	EXISTING TRAFFIC CONTROLLER CABINET
	PROPOSED POLE MOUNT CABINET
	PROPOSED METER
	PROPOSED ELECTRICAL PULL BOX
	PROPOSED FIBER PULL BOX
	PROPOSED RECTANGULAR FIBER SPLICE BOX
	PROPOSED CCTV POLE

REVISIONS				 Engineers   Scientists Planners   Designers 225 E. Robinson Street, Suite 300 Orlando, FL 32801 (407)839-4006 Certificate of Authorization # 3932 Jared Knight, P.E. PE # 74758	 OSCEOLA COUNTY FLORIDA	GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				IT-5

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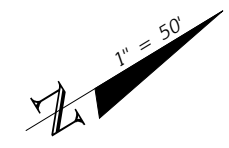


OSCEOLA COUNTY  
FLORIDA

PROJECT LAYOUT

SHEET NO.  
IT-6





MATCHLINE STA. - 16+20.00

MATCHLINE STA. - 23+40.00

EXISTING OSCEOLA COUNTY  
72 SM FIBER OPTIC CABLE  
TO BE TAKEN OUT OF  
SERVICE

SIMPSON RD.

CONST. SIMPSON RD.

DIRECTIONAL BORE - 3 CONDUITS  
1-1" CONDUIT (TRACER WIRE)  
1-2" CONDUIT (72 SM FOC)  
1-2" CONDUIT (SPARE)

630-2-12	485 LF
633-1-123	485 LF

FIBER OPTIC PULL BOX  
W/ SLACK FIBER

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

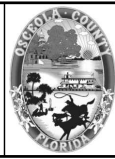
DIRECTIONAL BORE - 3 CONDUITS  
1-1" CONDUIT (TRACER WIRE)  
1-2" CONDUIT (72 SM FOC)  
1-2" CONDUIT (SPARE)

630-2-12	240 LF
633-1-123	240 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



Engineers | Scientists  
Planners | Designers  
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Orlando, FL 32801 (407)839-4006  
Certificate of Authorization # 3932  
Jared Knight, P.E.  
PE # 74758



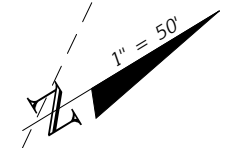
OSCEOLA COUNTY  
FLORIDA

ITS PLAN SHEET

SHEET NO.  
IT-8

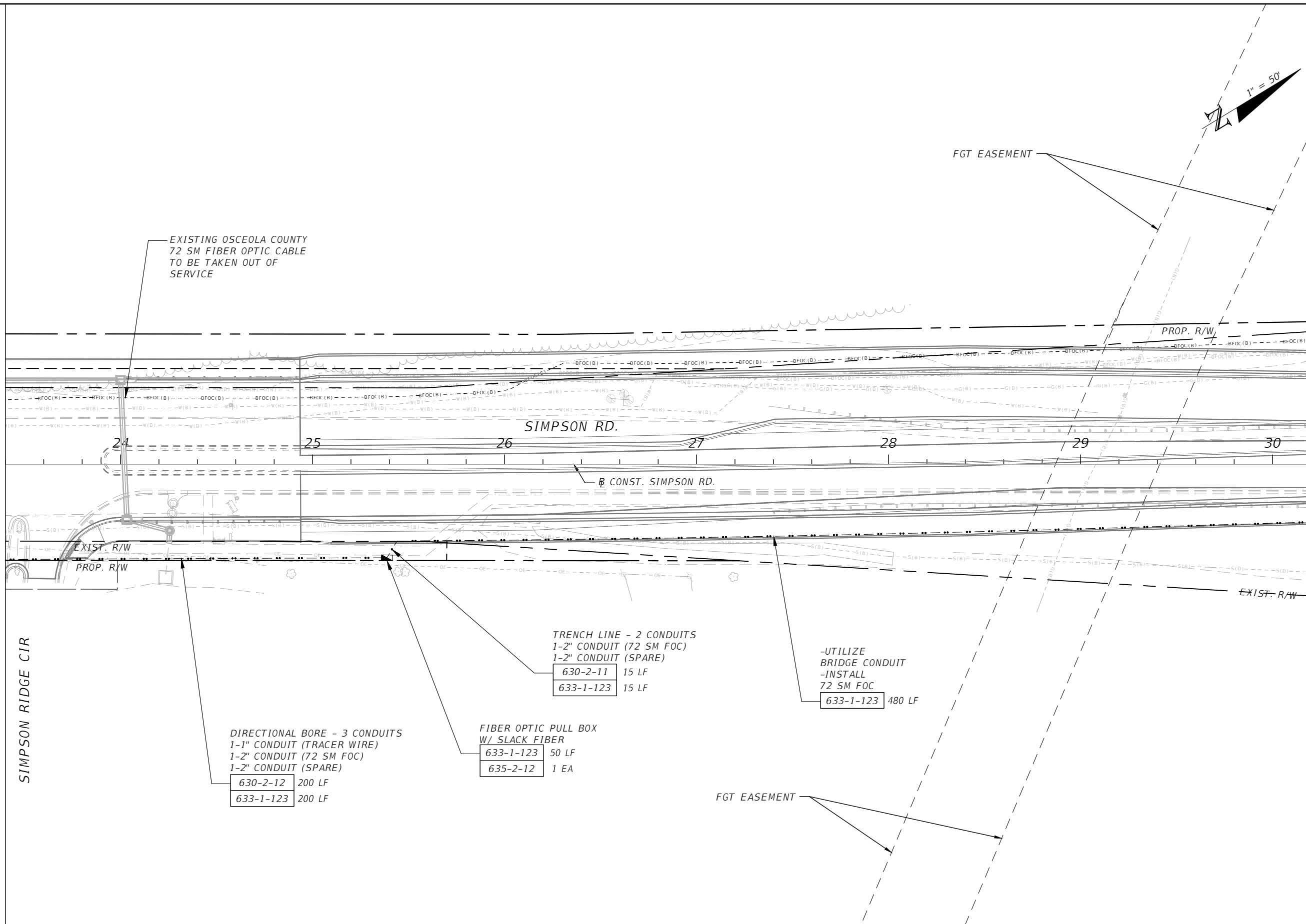
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MATCHLINE STA. - 23+40.00

MATCHLINE STA. - 30+20.00



EXISTING OSCEOLA COUNTY  
72 SM FIBER OPTIC CABLE  
TO BE TAKEN OUT OF  
SERVICE

SIMPSON RD.

CONST. SIMPSON RD.

FGT EASEMENT

PROP. R/W

EXIST. R/W

PROP. R/W

EXIST. R/W

SIMPSON RIDGE CIR

TRENCH LINE - 2 CONDUITS  
1-2" CONDUIT (72 SM FOC)  
1-2" CONDUIT (SPARE)  
630-2-11 15 LF  
633-1-123 15 LF

-UTILIZE  
BRIDGE CONDUIT  
-INSTALL  
72 SM FOC  
633-1-123 480 LF

DIRECTIONAL BORE - 3 CONDUITS  
1-1" CONDUIT (TRACER WIRE)  
1-2" CONDUIT (72 SM FOC)  
1-2" CONDUIT (SPARE)  
630-2-12 200 LF  
633-1-123 200 LF

FIBER OPTIC PULL BOX  
W/ SLACK FIBER  
633-1-123 50 LF  
635-2-12 1 EA

FGT EASEMENT

REVISIONS			
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PE # 74758

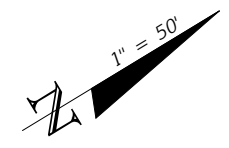


OSCEOLA COUNTY  
FLORIDA

ITS PLAN SHEET

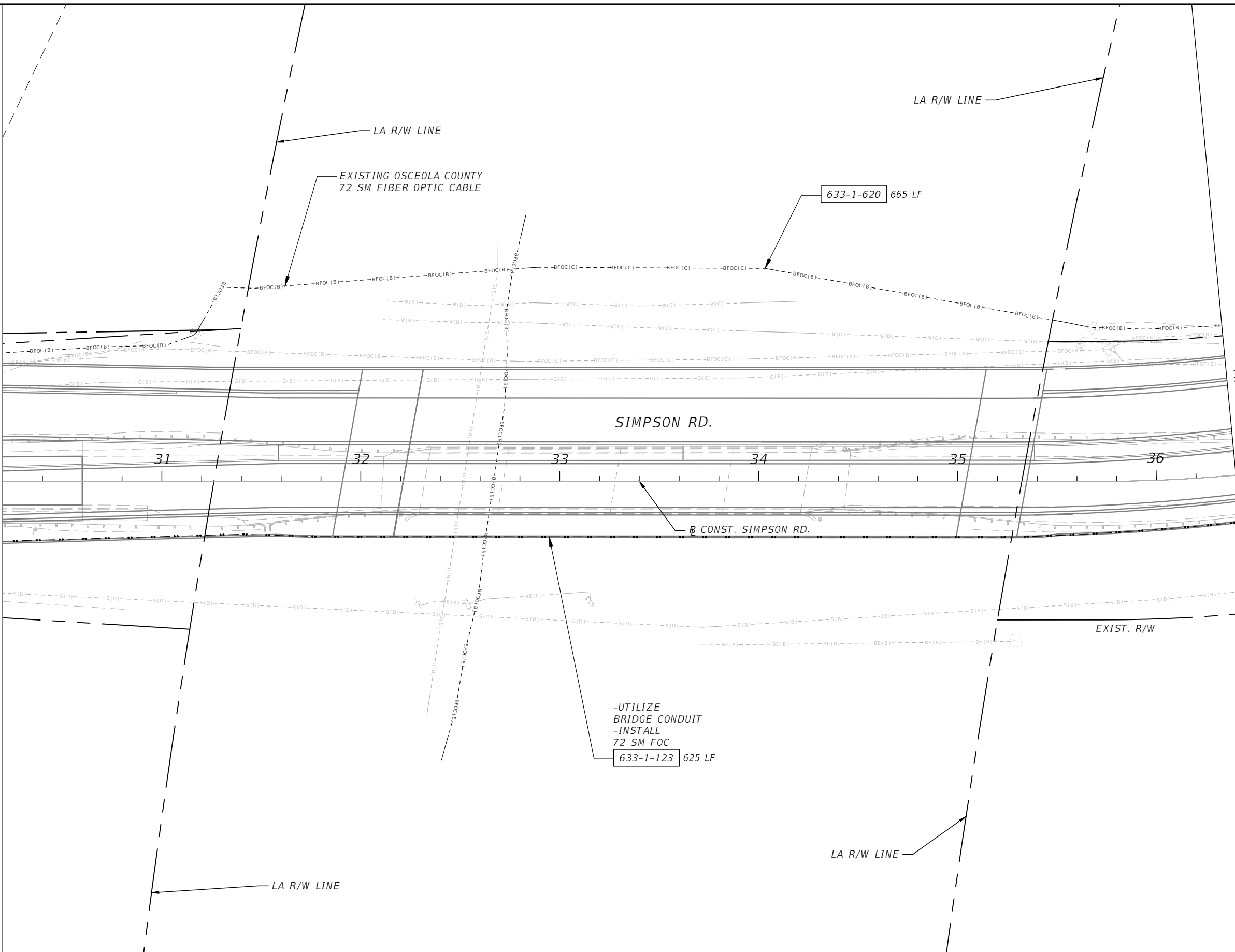
SHEET  
NO.  
IT-9

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MATCHLINE STA. - 30+20.00

MATCHLINE STA. - 36+40.00



-UTILIZE  
BRIDGE CONDUIT  
-INSTALL  
72 SM FOC  
633-1-123 625 LF

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



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PE # 74758

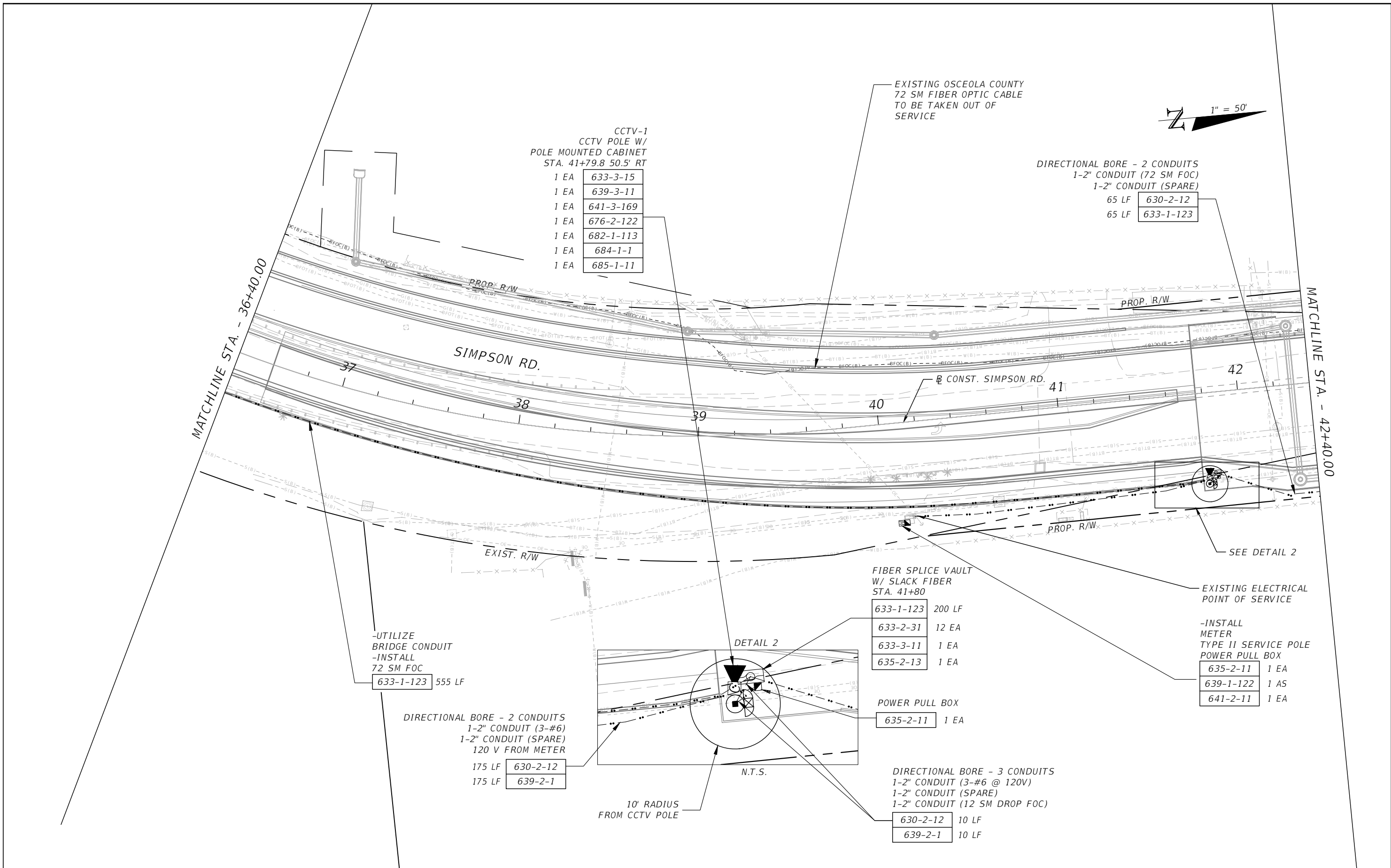


OSCEOLA COUNTY  
FLORIDA

ITS PLAN SHEET

SHEET NO.  
IT-10

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CCTV-1  
CCTV POLE W/  
POLE MOUNTED CABINET  
STA. 41+79.8 50.5' RT

1 EA	633-3-15
1 EA	639-3-11
1 EA	641-3-169
1 EA	676-2-122
1 EA	682-1-113
1 EA	684-1-1
1 EA	685-1-11

DIRECTIONAL BORE - 2 CONDUITS  
1-2" CONDUIT (72 SM FOC)  
1-2" CONDUIT (SPARE)

65 LF	630-2-12
65 LF	633-1-123

FIBER SPLICE VAULT  
W/ SLACK FIBER  
STA. 41+80

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

POWER PULL BOX

635-2-11	1 EA
----------	------

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

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

-UTILIZE  
BRIDGE CONDUIT  
-INSTALL  
72 SM FOC

633-1-123	555 LF
-----------	--------

DIRECTIONAL BORE - 2 CONDUITS  
1-2" CONDUIT (3-#6)  
1-2" CONDUIT (SPARE)  
120 V FROM METER

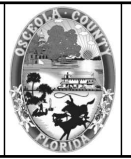
175 LF	630-2-12
175 LF	639-2-1

-INSTALL  
METER  
TYPE II SERVICE POLE  
POWER PULL BOX

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

REVISIONS			
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PE # 74758



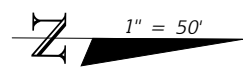
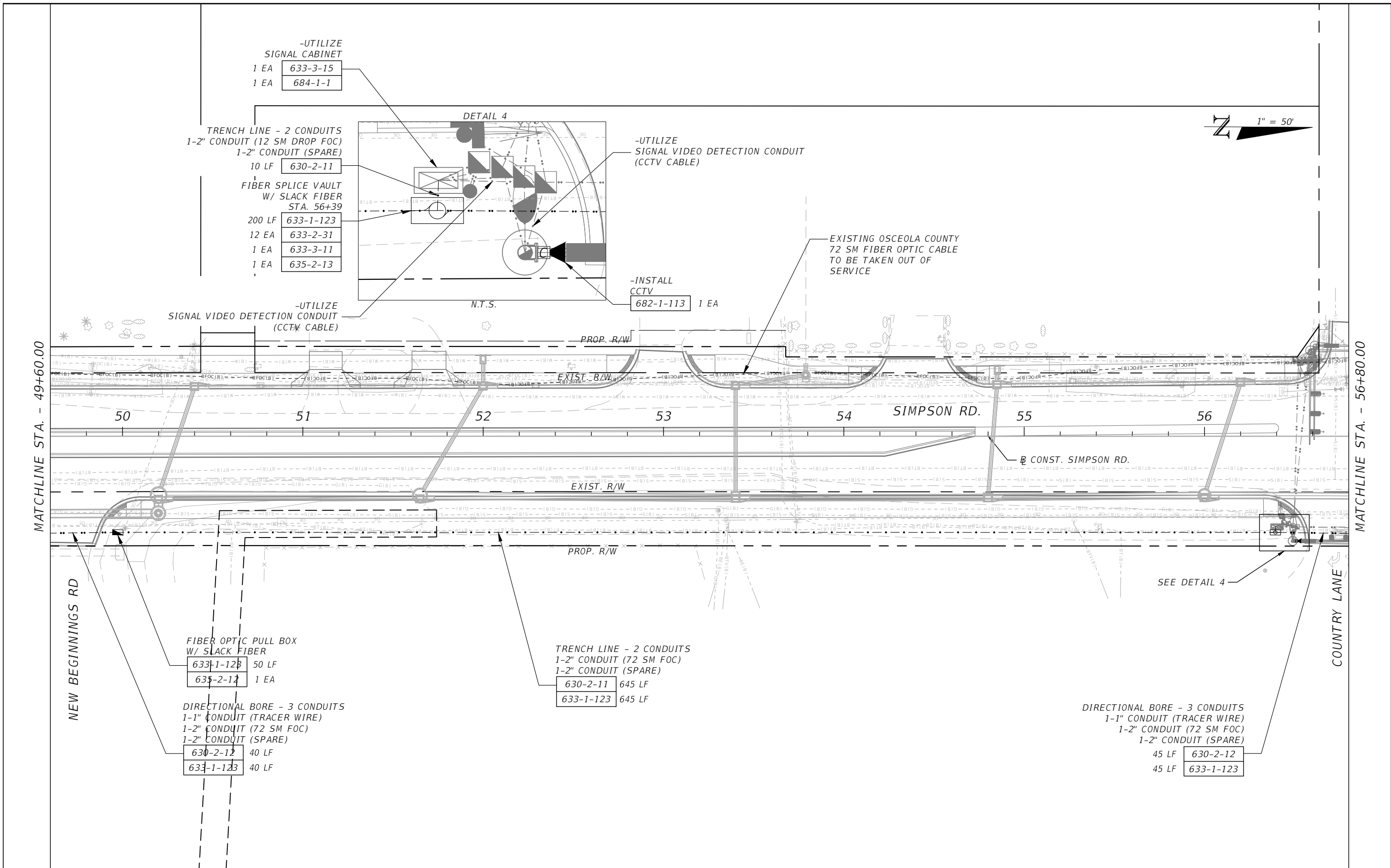
OSCEOLA COUNTY  
FLORIDA

ITS PLAN SHEET

SHEET NO.  
IT-11

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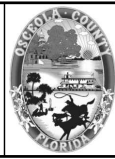




REVISIONS			
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PE # 74758



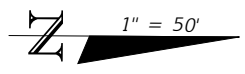
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FLORIDA

ITS PLAN SHEET

SHEET NO.  
IT-13

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WOODFIELD CT



EXISTING OSCEOLA COUNTY  
72 SM FIBER OPTIC CABLE  
TO BE TAKEN OUT OF  
SERVICE

EXIST. R/W

SIMPSON RD.

CONST. SIMPSON RD.

EXIST. R/W

PROP. R/W

DIRECTIONAL BORE - 3 CONDUITS  
1-1" CONDUIT (TRACER WIRE)  
1-2" CONDUIT (72 SM FOC)  
1-2" CONDUIT (SPARE)

630-2-12	430 LF
633-1-123	430 LF

FIBER OPTIC PULL BOX  
W/ SLACK FIBER

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

DIRECTIONAL BORE - 3 CONDUITS  
1-1" CONDUIT (TRACER WIRE)  
1-2" CONDUIT (72 SM FOC)  
1-2" CONDUIT (SPARE)

630-2-12	295 LF
633-1-123	295 LF

MATCHLINE STA. - 56+80.00

MATCHLINE STA. - 64+00.00

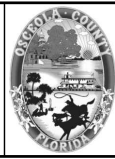
COUNTRY LANE

COUNTRY LANE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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Jared Knight, P.E.  
PE # 74758

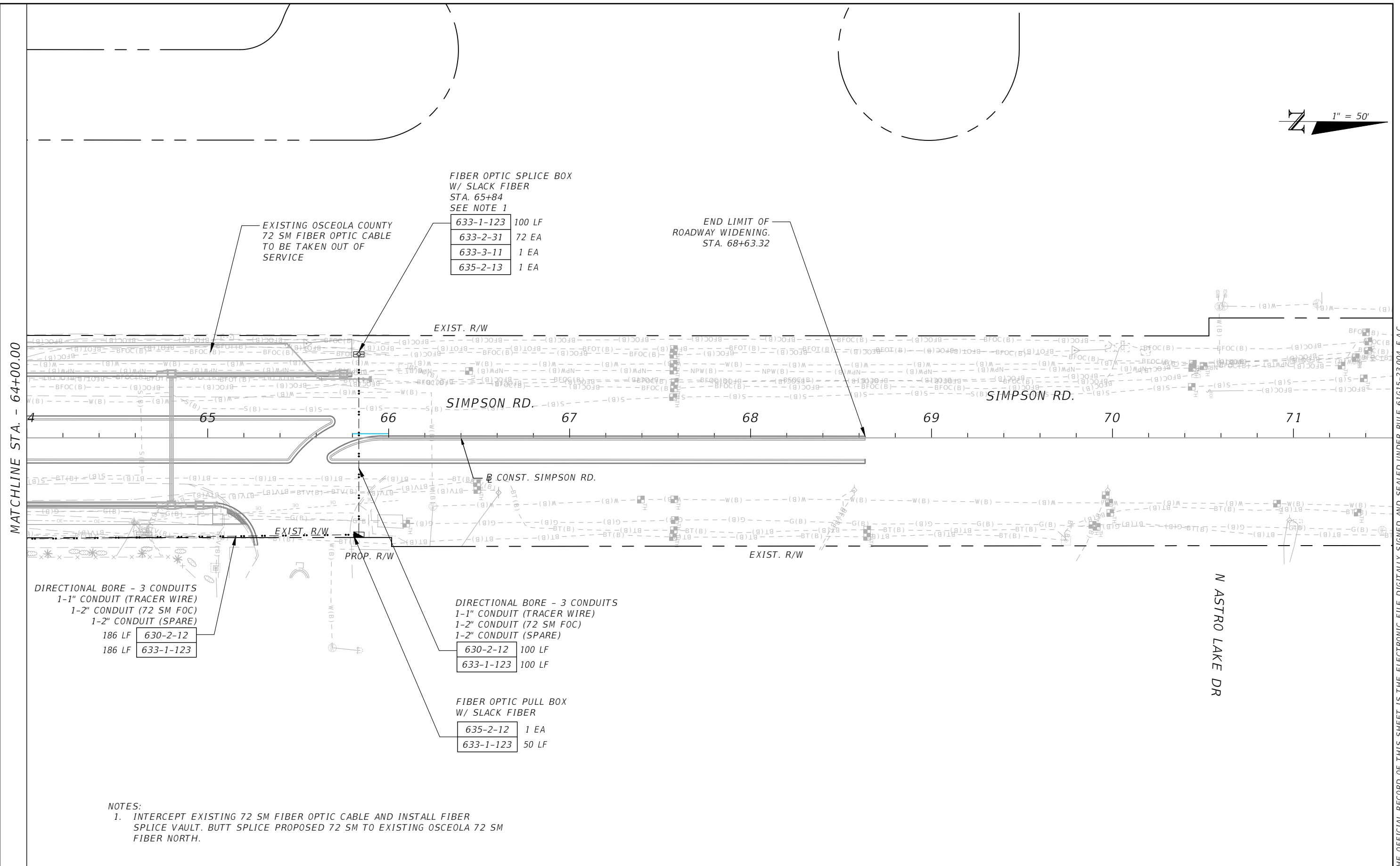
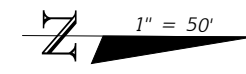


OSCEOLA COUNTY  
FLORIDA

ITS PLAN SHEET

SHEET NO.  
IT-14

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MATCHLINE STA. - 64+00.00

FIBER OPTIC SPLICE BOX  
W/ SLACK FIBER  
STA. 65+84  
SEE NOTE 1

633-1-123	100 LF
633-2-31	72 EA
633-3-11	1 EA
635-2-13	1 EA

END LIMIT OF  
ROADWAY WIDENING.  
STA. 68+63.32

EXISTING OSCEOLA COUNTY  
72 SM FIBER OPTIC CABLE  
TO BE TAKEN OUT OF  
SERVICE

DIRECTIONAL BORE - 3 CONDUITS  
1-1" CONDUIT (TRACER WIRE)  
1-2" CONDUIT (72 SM FOC)  
1-2" CONDUIT (SPARE)

186 LF	630-2-12
186 LF	633-1-123

DIRECTIONAL BORE - 3 CONDUITS  
1-1" CONDUIT (TRACER WIRE)  
1-2" CONDUIT (72 SM FOC)  
1-2" CONDUIT (SPARE)

100 LF	630-2-12
100 LF	633-1-123

FIBER OPTIC PULL BOX  
W/ SLACK FIBER

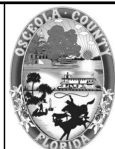
1 EA	635-2-12
50 LF	633-1-123

NOTES:  
1. INTERCEPT EXISTING 72 SM FIBER OPTIC CABLE AND INSTALL FIBER SPLICE VAULT. BUTT SPLICE PROPOSED 72 SM TO EXISTING OSCEOLA 72 SM FIBER NORTH.

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REVISIONS			
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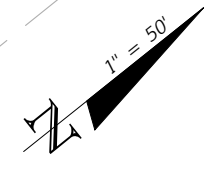
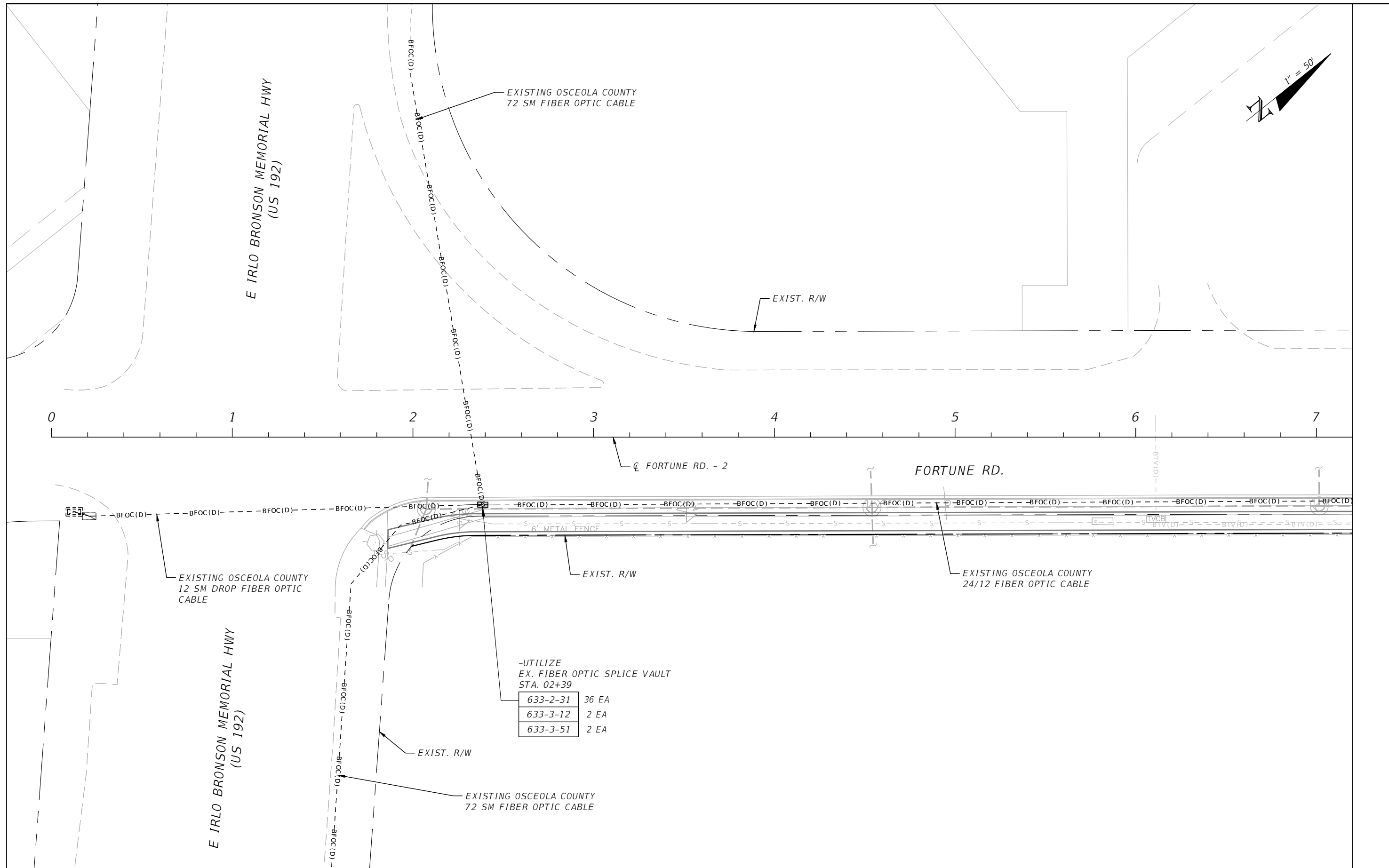
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Planners | Designers  
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Jared Knight, P.E.  
PE # 74758



OSCEOLA COUNTY  
FLORIDA

ITS PLAN SHEET

SHEET NO.  
IT-15



-UTILIZE  
EX. FIBER OPTIC SPLICE VAULT  
STA. 02+39

633-2-31	36 EA
633-3-12	2 EA
633-3-51	2 EA

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PE # 74758



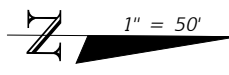
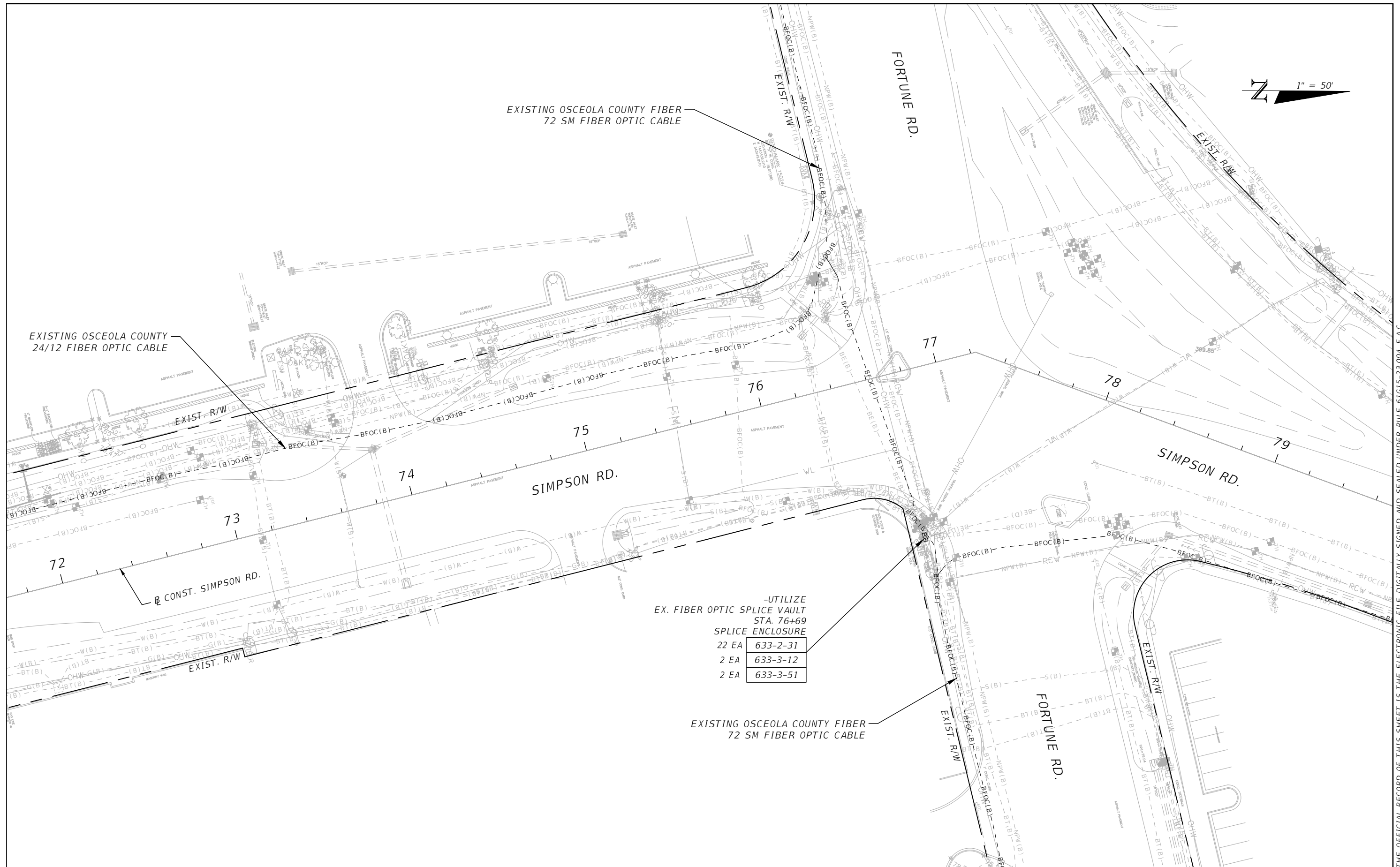
OSCEOLA COUNTY  
FLORIDA

ITS PLAN SHEET

SHEET NO.  
IT-16

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EXISTING OSCEOLA COUNTY FIBER  
72 SM FIBER OPTIC CABLE

EXISTING OSCEOLA COUNTY  
24/12 FIBER OPTIC CABLE

-UTILIZE  
EX. FIBER OPTIC SPLICE VAULT  
STA. 76+69  
SPLICE ENCLOSURE

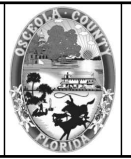
22 EA	633-2-31
2 EA	633-3-12
2 EA	633-3-51

EXISTING OSCEOLA COUNTY FIBER  
72 SM FIBER OPTIC CABLE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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PE # 74758



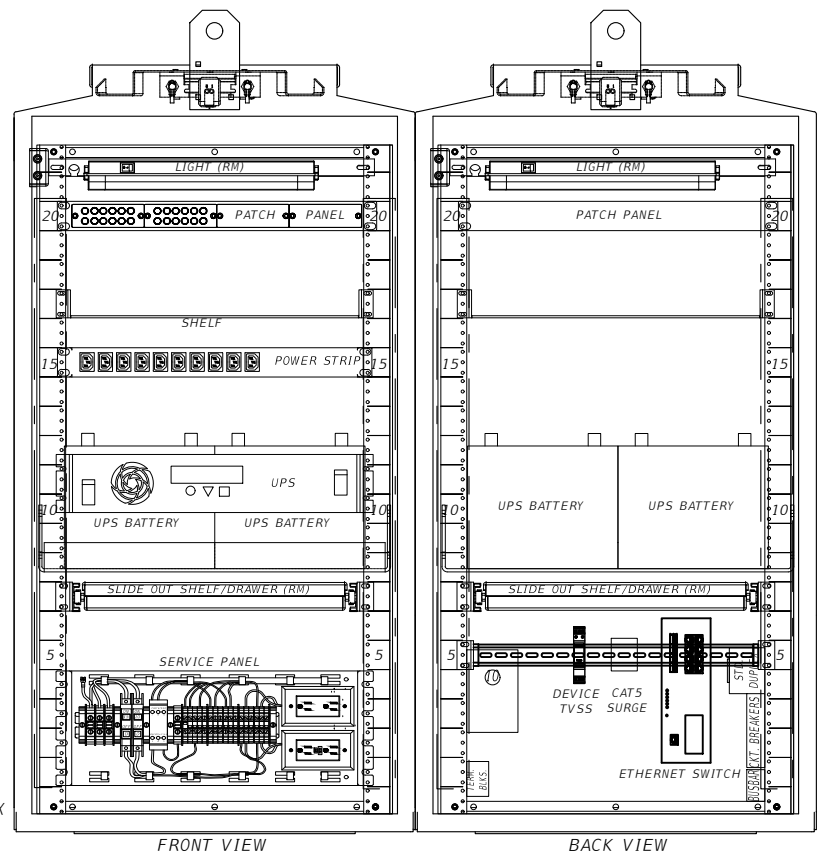
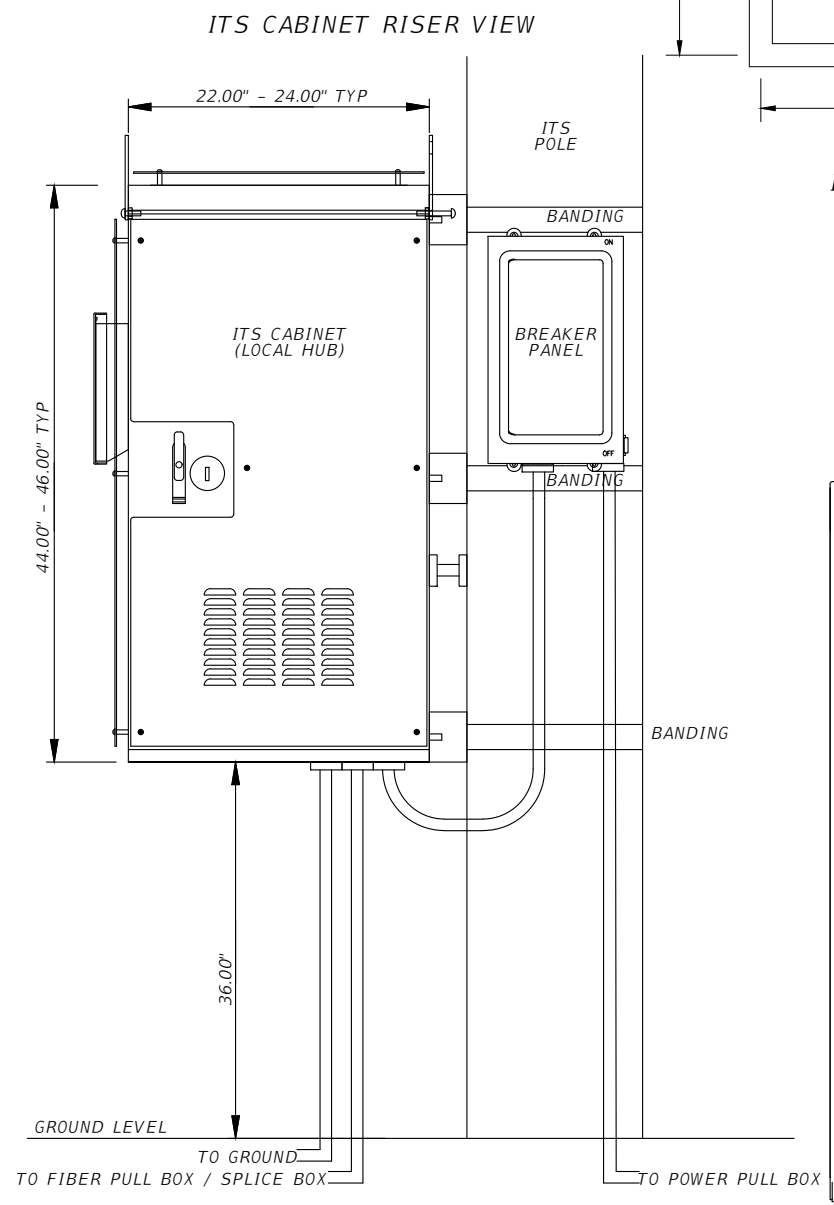
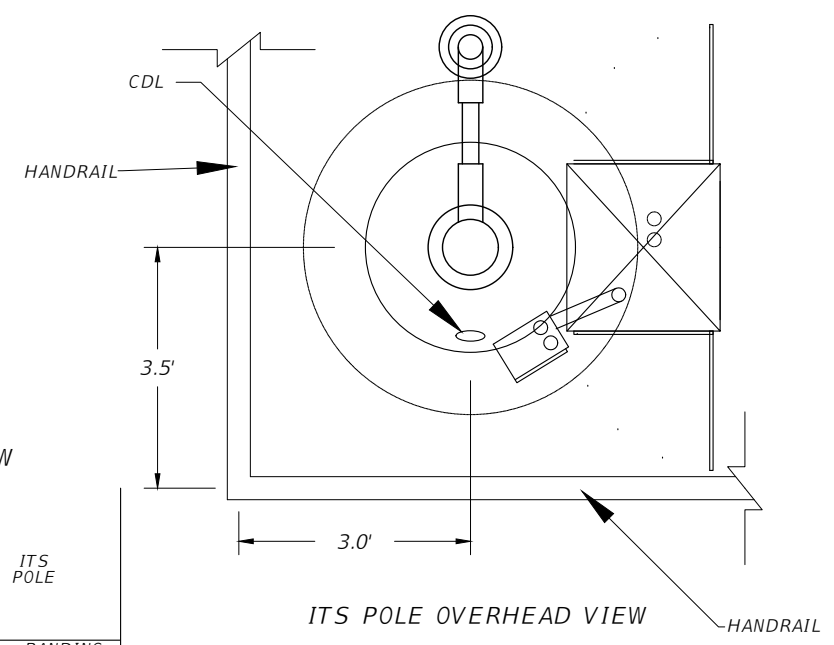
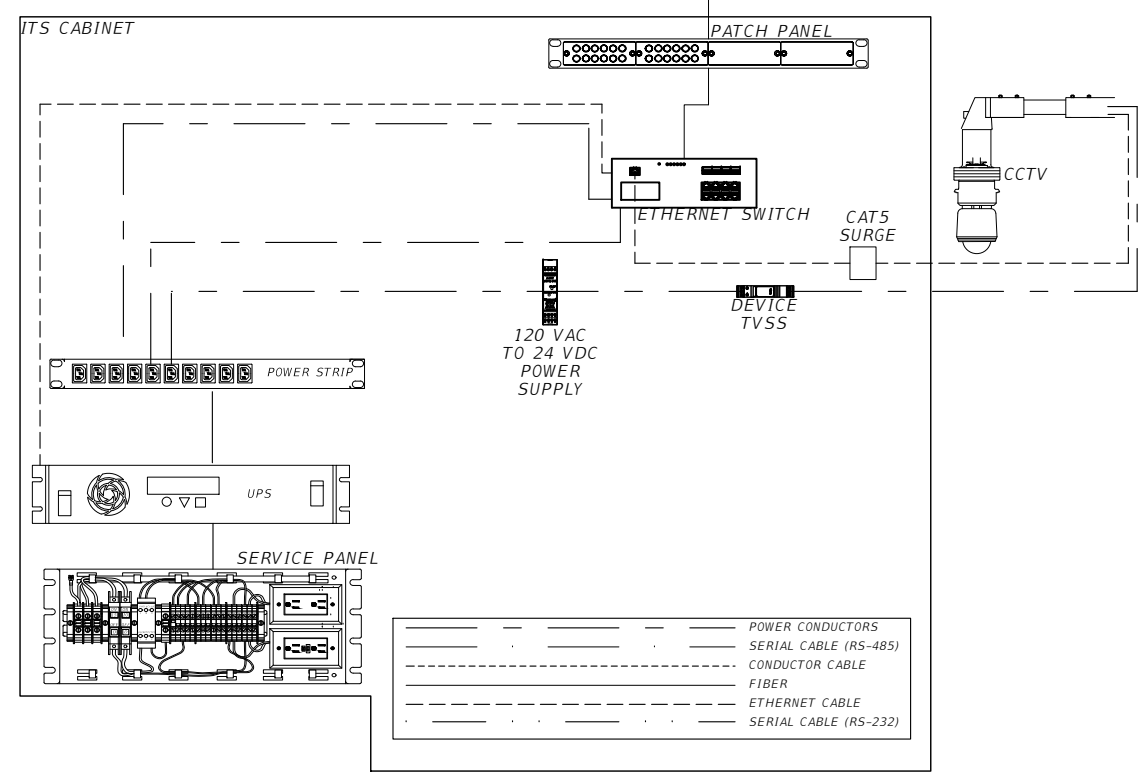
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FLORIDA

ITS PLAN SHEET

SHEET  
NO.  
IT-17

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POWER AND COMMUNICATIONS SCHEMATIC



- NOTES:
1. THE CABINET SHALL PROVIDE FOR RACK MOUNTING AND SHELVING OF ALL EQUIPMENT.
  2. CABINETS SHALL BE TYPE 170 MODEL 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.
  6. CABINET SHALL BE INSTALLED ON POLE OPPOSITE DIRECTION OF TRAVEL.
  7. EQUIPMENT PLACEMENT ARE TYPICAL.

REVISIONS			
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 Planners | Designers  
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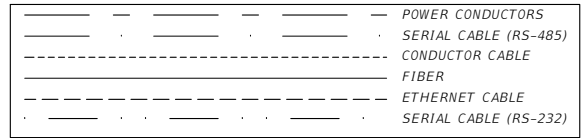
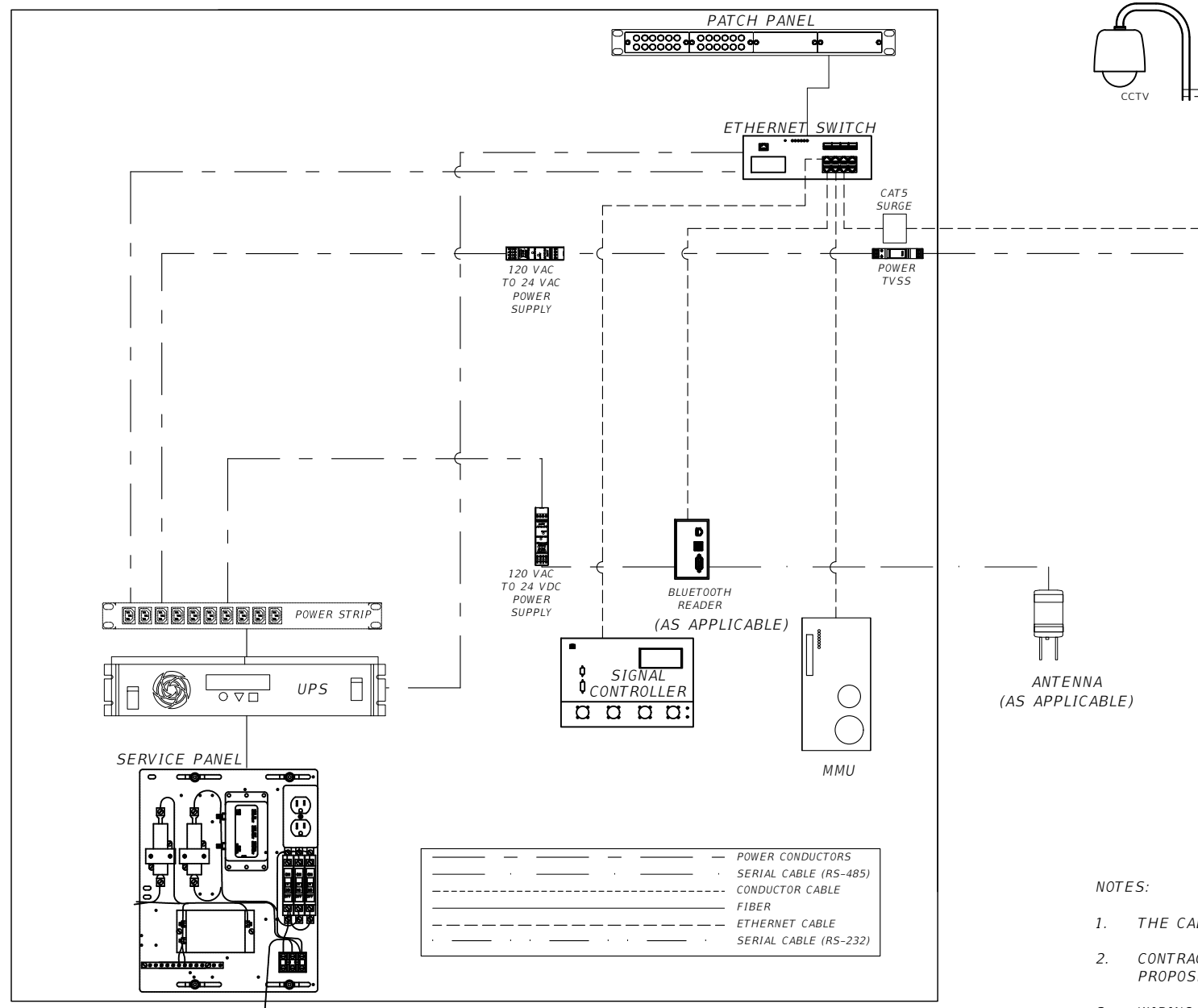
OSCEOLA COUNTY  
FLORIDA

ITS CABINET DETAIL  
(1 CCTV)

SHEET NO.  
IT-18

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POWER AND COMMUNICATIONS SCHEMATIC  
SIGNAL CABINET

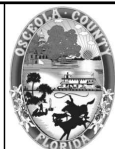


NOTES:

1. THE CABINET SHALL PROVIDE FOR DIN RAIL MOUNTED EQUIPMENT.
2. CONTRACTOR IS RESPONSIBLE FOR FINDING AVAILABLE SPACE IN SIGNAL CABINET FOR PROPOSED EQUIPMENT.
3. WIRING DIAGRAM IS TYPICAL. ADDITIONAL DEVICES MAY BE PRESENT IN SIGNAL CABINET.

REVISIONS			
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Jared Knight, P.E.  
PE # 74758

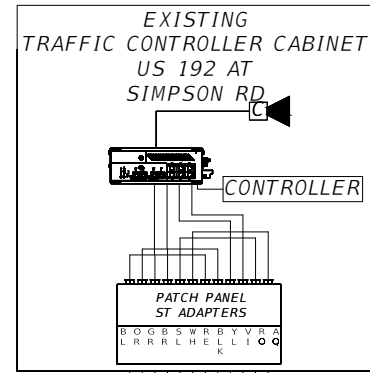


OSCEOLA COUNTY  
FLORIDA

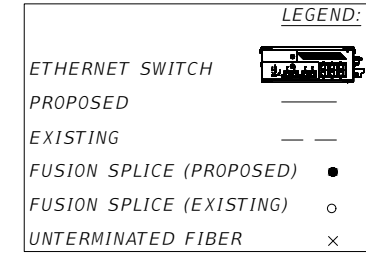
ITS CABINET DETAIL  
(SIGNAL CABINET)

SHEET  
NO.  
IT-19

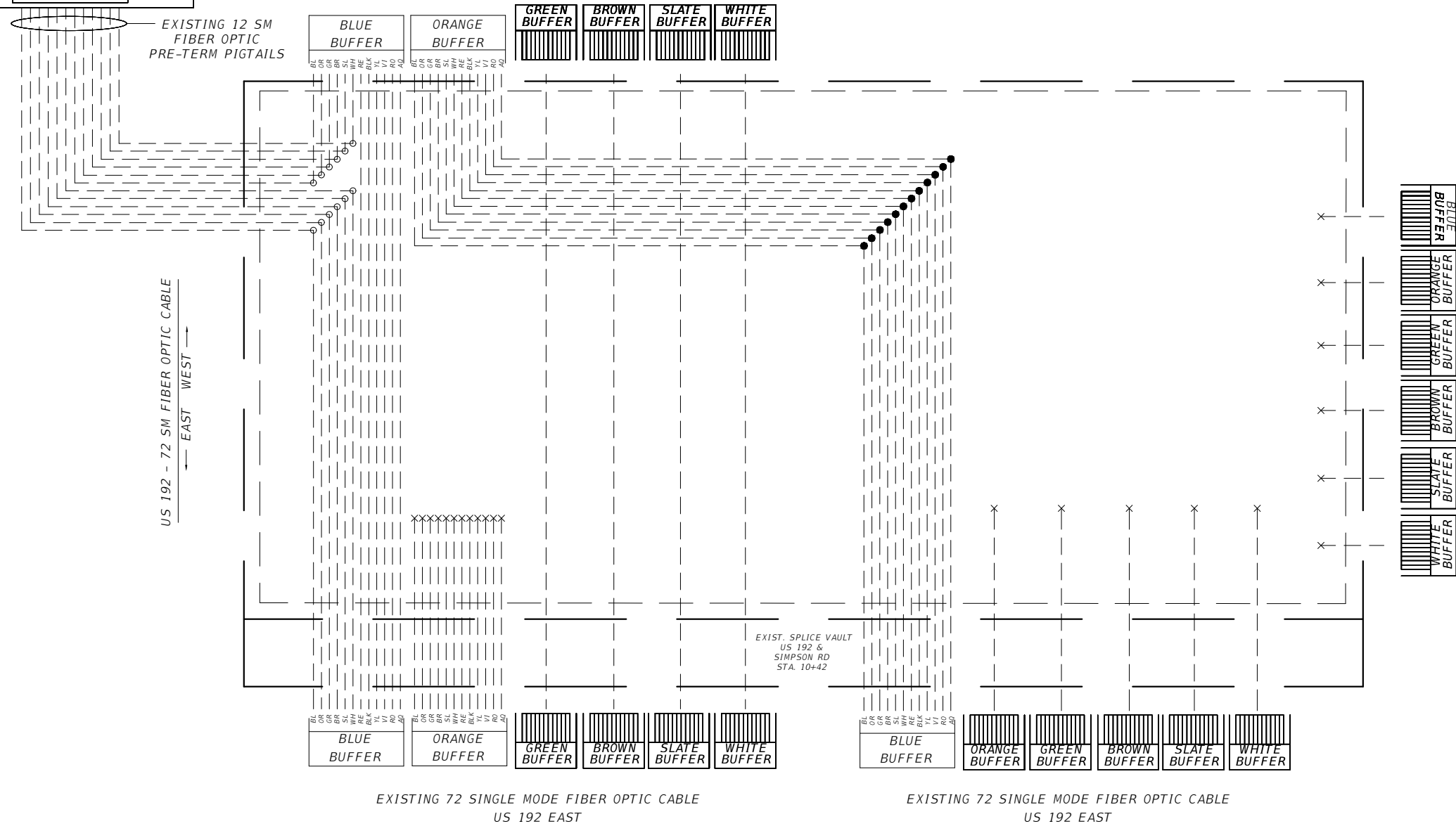
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SIMPSON RD - 72 SM FIBER OPTIC CABLE  
 ← SOUTH NORTH →



EXISTING 72 SINGLE MODE FIBER OPTIC CABLE  
 US 192 WEST



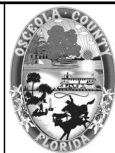
EXISTING 72 SINGLE MODE FIBER OPTIC CABLE  
 US 192 EAST

EXISTING 72 SINGLE MODE FIBER OPTIC CABLE  
 US 192 EAST

EXISTING 72 SINGLE MODE FIBER OPTIC CABLE  
 SIMPSON RD NORTH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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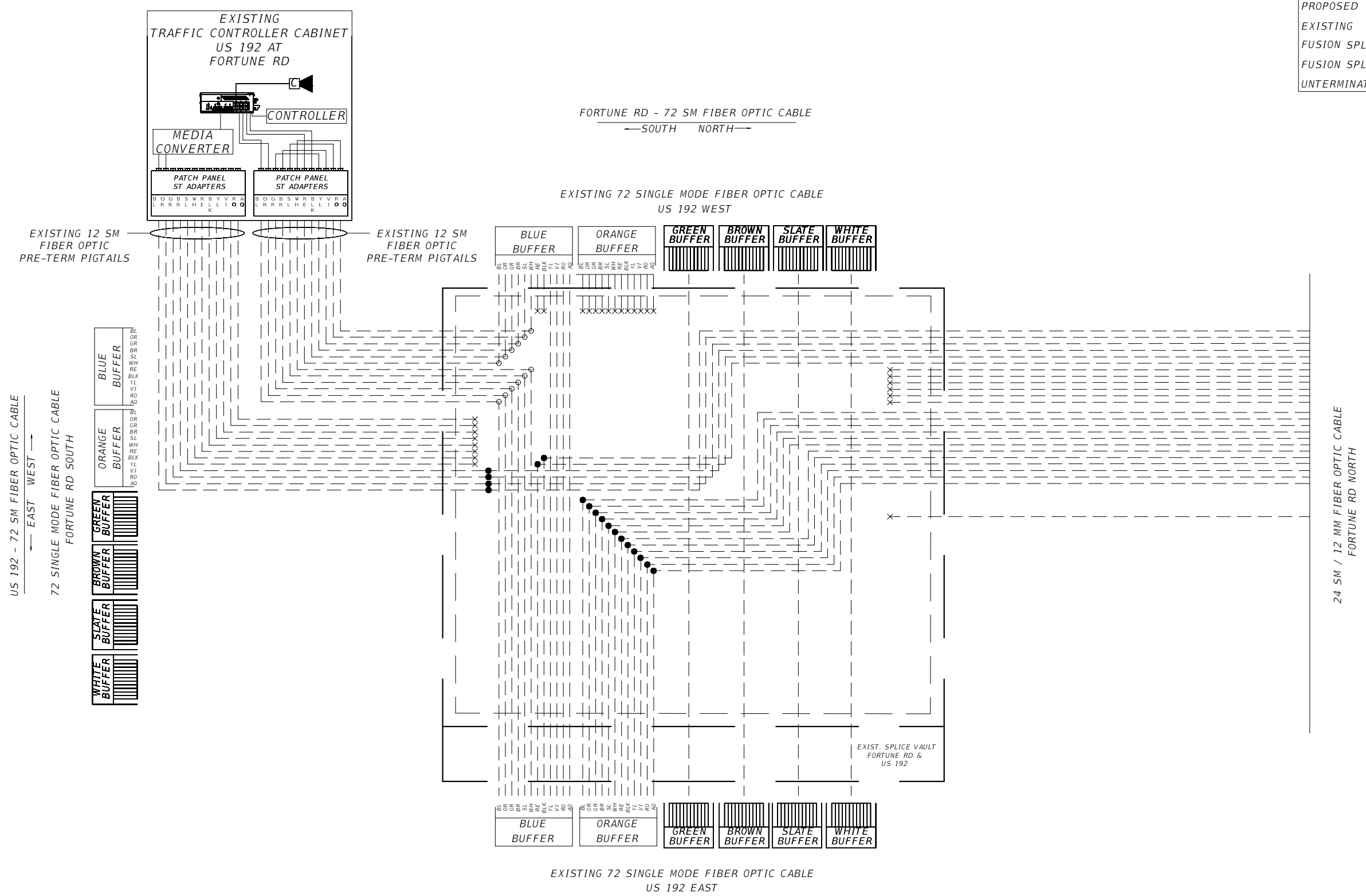
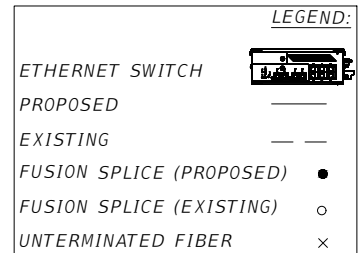


OSCEOLA COUNTY  
 FLORIDA

SPLICE DIAGRAM (MOC)

SHEET NO.  
 IT-20

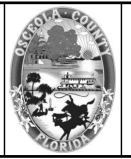
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Jared Knight, P.E.  
PE # 74758

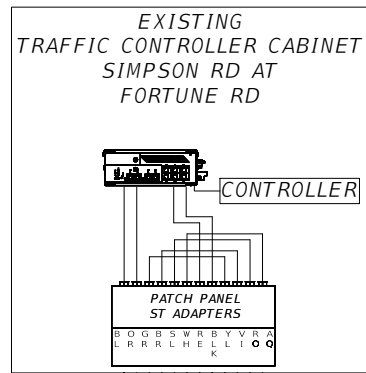


OSCEOLA COUNTY  
FLORIDA

SPLICE DIAGRAM (MOC)

SHEET NO.  
IT-21

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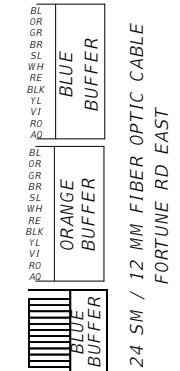
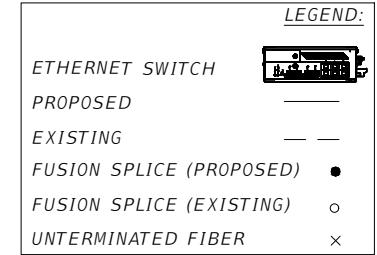
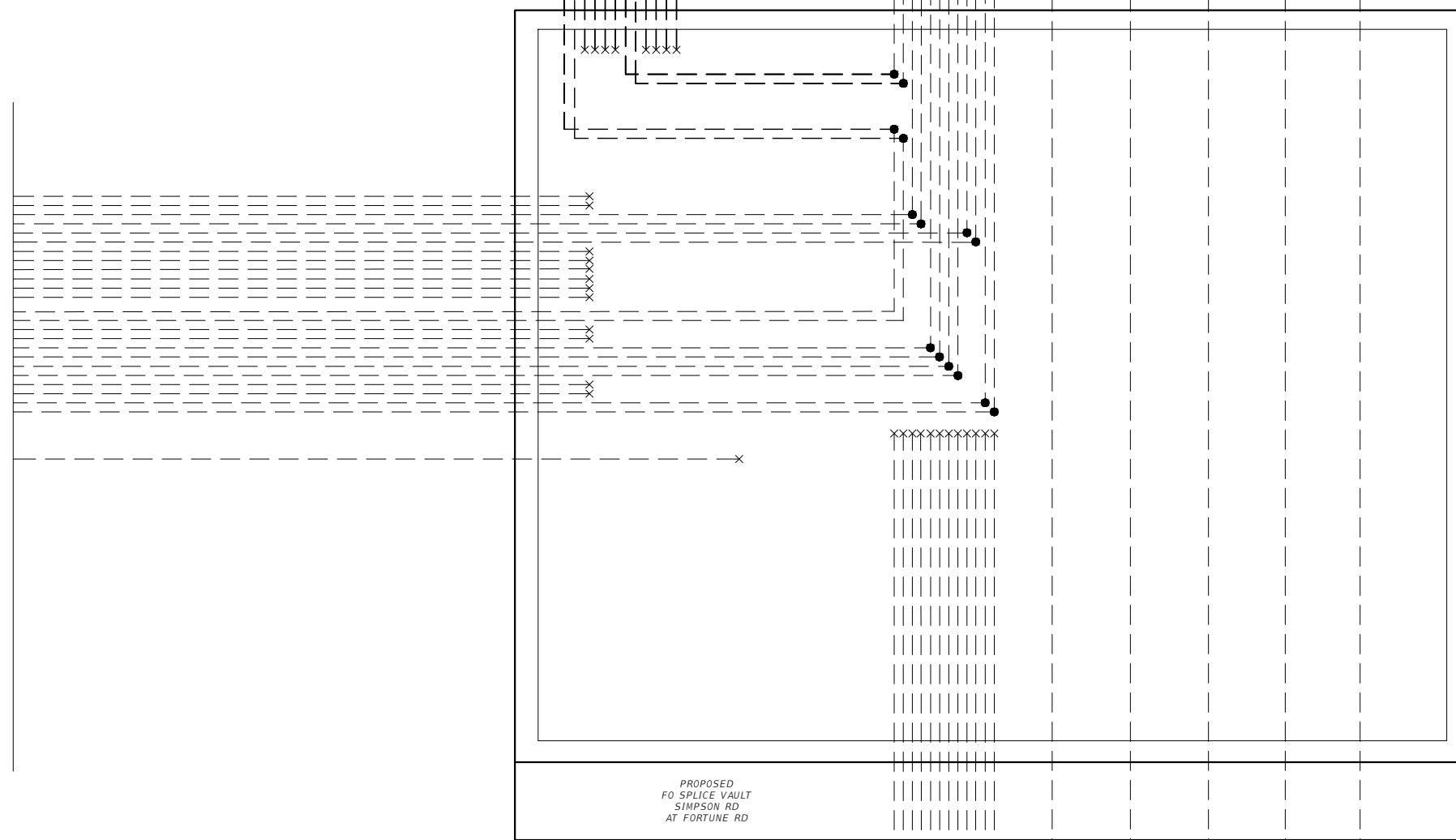
FORTUNE RD - 72 SM FIBER OPTIC CABLE  
 ← WEST EAST →

72 SINGLE MODE FIBER OPTIC CABLE  
 SIMPSON RD NORTH



EXISTING 12 SM FIBER OPTIC PRE-TERM PIGTAILS

24 SM / 12 MM FIBER OPTIC CABLE  
 FORTUNE RD WEST



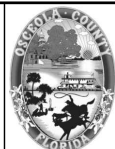
SIMPSON RD - 72 SM FIBER OPTIC CABLE  
 ← SOUTH NORTH →



72 SINGLE MODE FIBER OPTIC CABLE - SIMPSON RD SOUTH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**vhb** Engineers | Scientists  
 Planners | Designers  
 225 E. Robinson Street, Suite 300  
 Orlando, FL 32801 (407)839-4006  
 Certificate of Authorization # 3932  
 Jared Knight, P.E.  
 PE # 74758

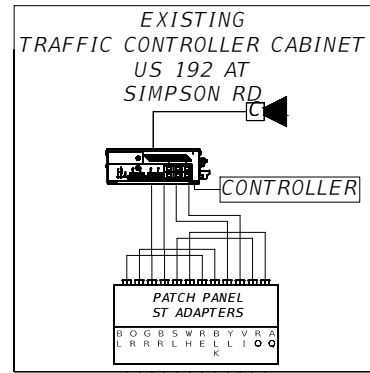


OSCEOLA COUNTY  
 FLORIDA

SPLICE DIAGRAM (MOC)

SHEET NO.  
 IT-22

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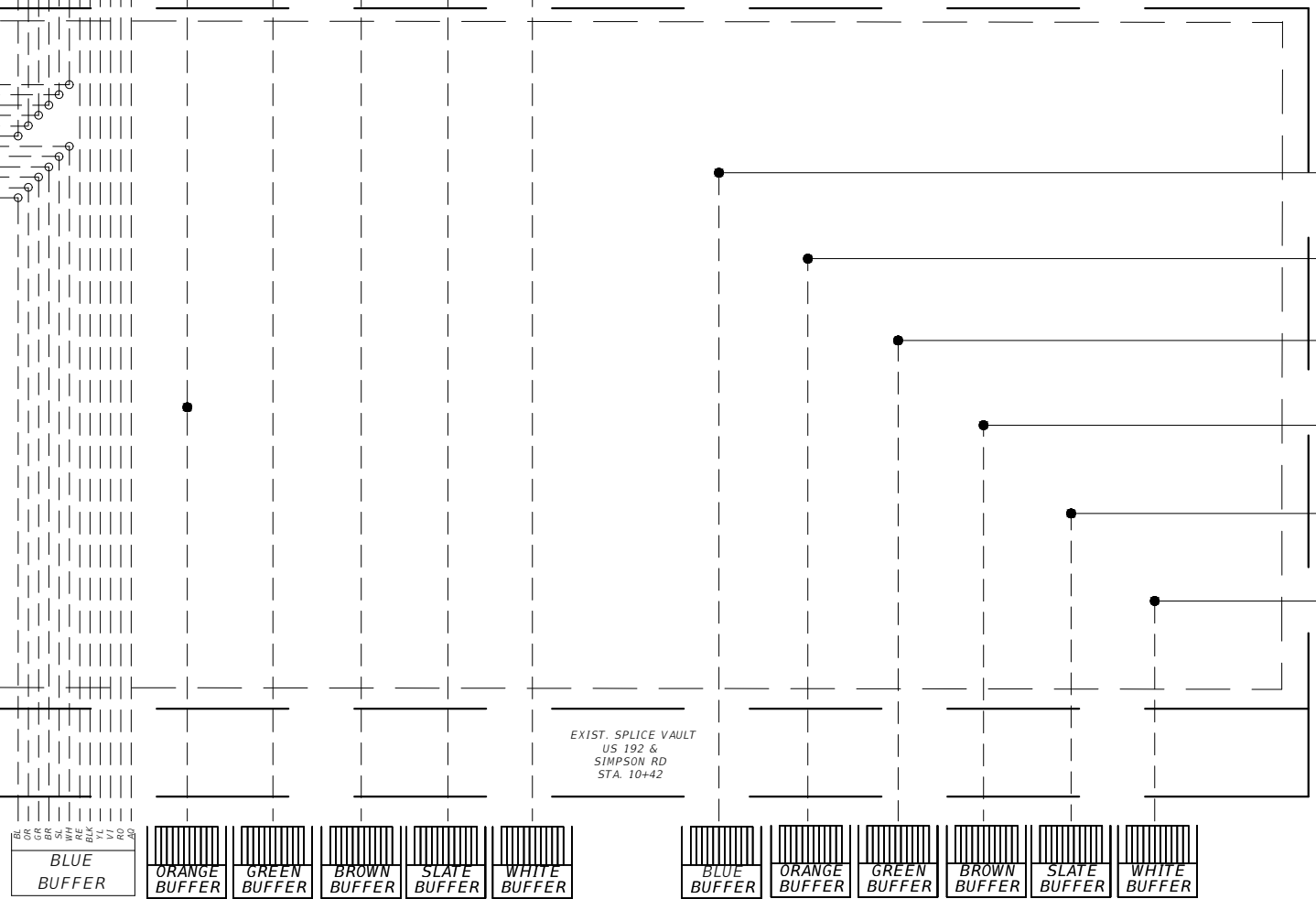
SIMPSON RD - 72 SM FIBER OPTIC CABLE  
 ← SOUTH NORTH →

EXISTING 72 SINGLE MODE FIBER OPTIC CABLE  
 US 192 WEST

EXISTING 12 SM FIBER OPTIC  
 PRE-TERM PIGTAILS



US 192 - 72 SM FIBER OPTIC CABLE  
 ← EAST WEST →



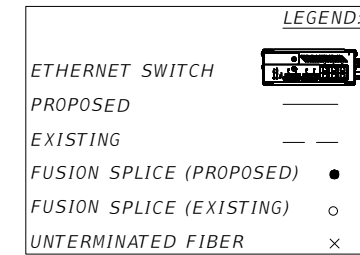
EXISTING 72 SINGLE MODE FIBER OPTIC CABLE  
 US 192 EAST



EXISTING 72 SINGLE MODE FIBER OPTIC CABLE  
 US 192 EAST

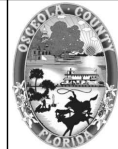


72 SINGLE MODE FIBER OPTIC CABLE  
 SIMPSON RD NORTH



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 FLORIDA




SPLICE DIAGRAM

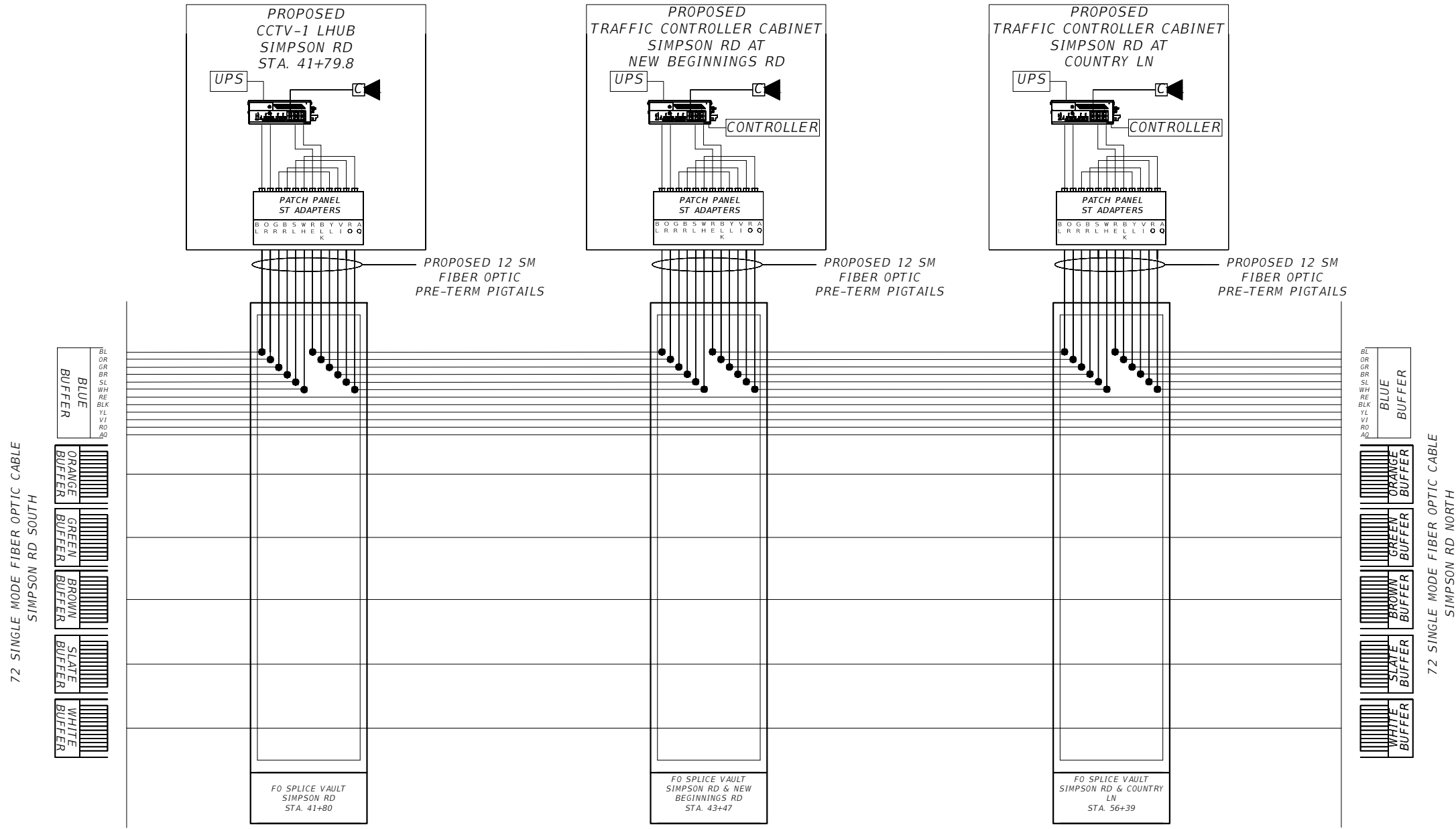
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 IT-23

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SIMPSON RD - 72 SM FIBER OPTIC CABLE  
 ← SOUTH NORTH →

**LEGEND:**

- ETHERNET SWITCH 
- PROPOSED 
- EXISTING 
- FUSION SPLICE (PROPOSED) ●
- FUSION SPLICE (EXISTING) ○
- UNTERMINATED FIBER ×



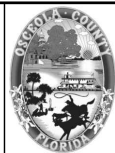
72 SINGLE MODE FIBER OPTIC CABLE  
 SIMPSON RD SOUTH

72 SINGLE MODE FIBER OPTIC CABLE  
 SIMPSON RD NORTH

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 FLORIDA

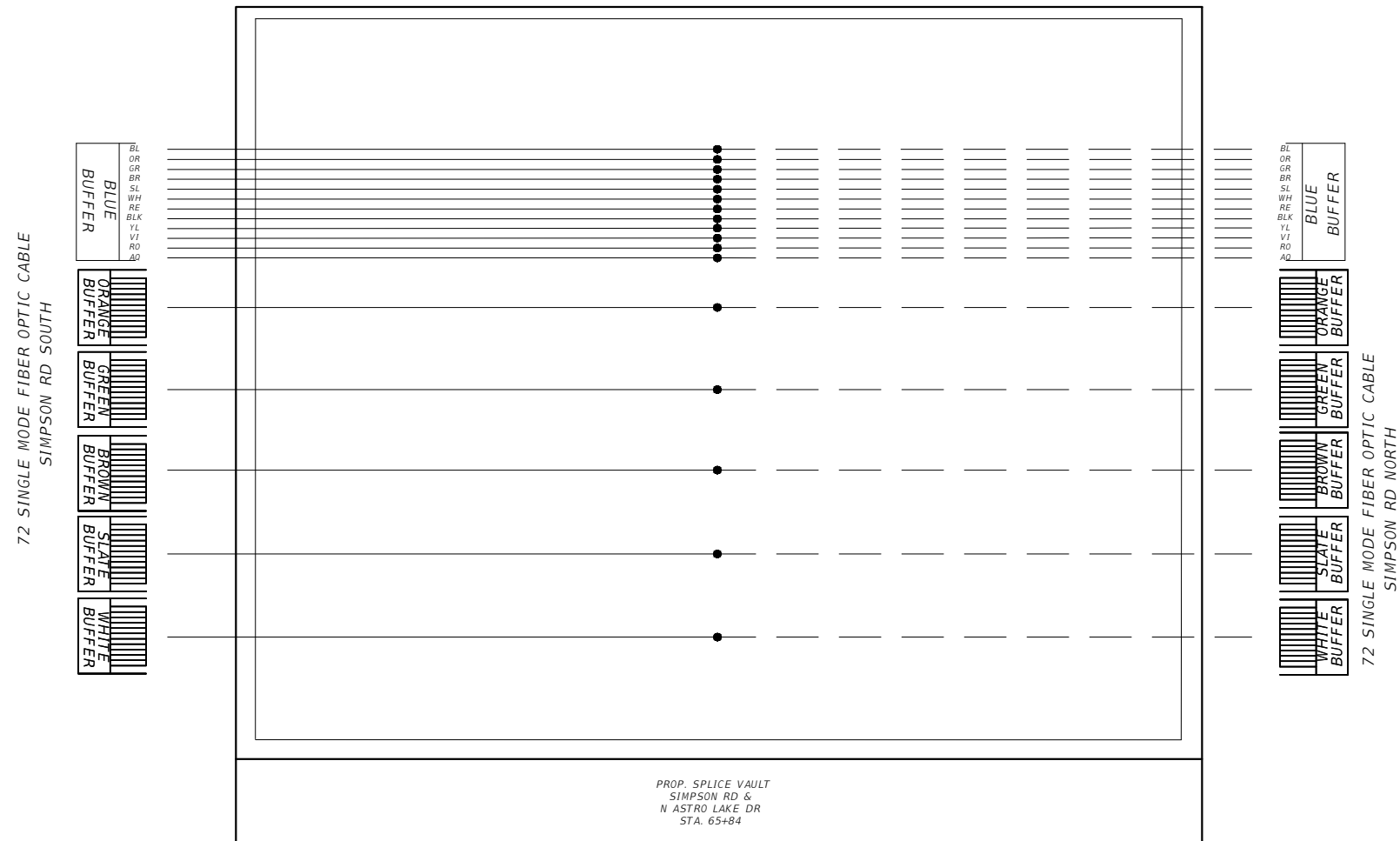
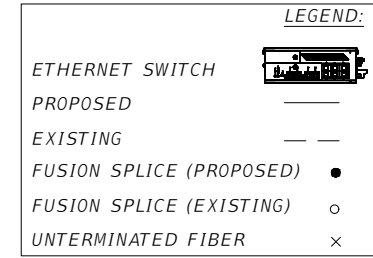
SPLICE DIAGRAM

SHEET NO.  
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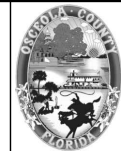
SIMPSON RD - 72 SM FIBER OPTIC CABLE  
 ← SOUTH NORTH →



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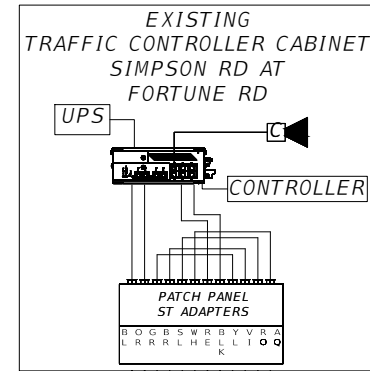


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 FLORIDA

SPLICE DIAGRAM

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.



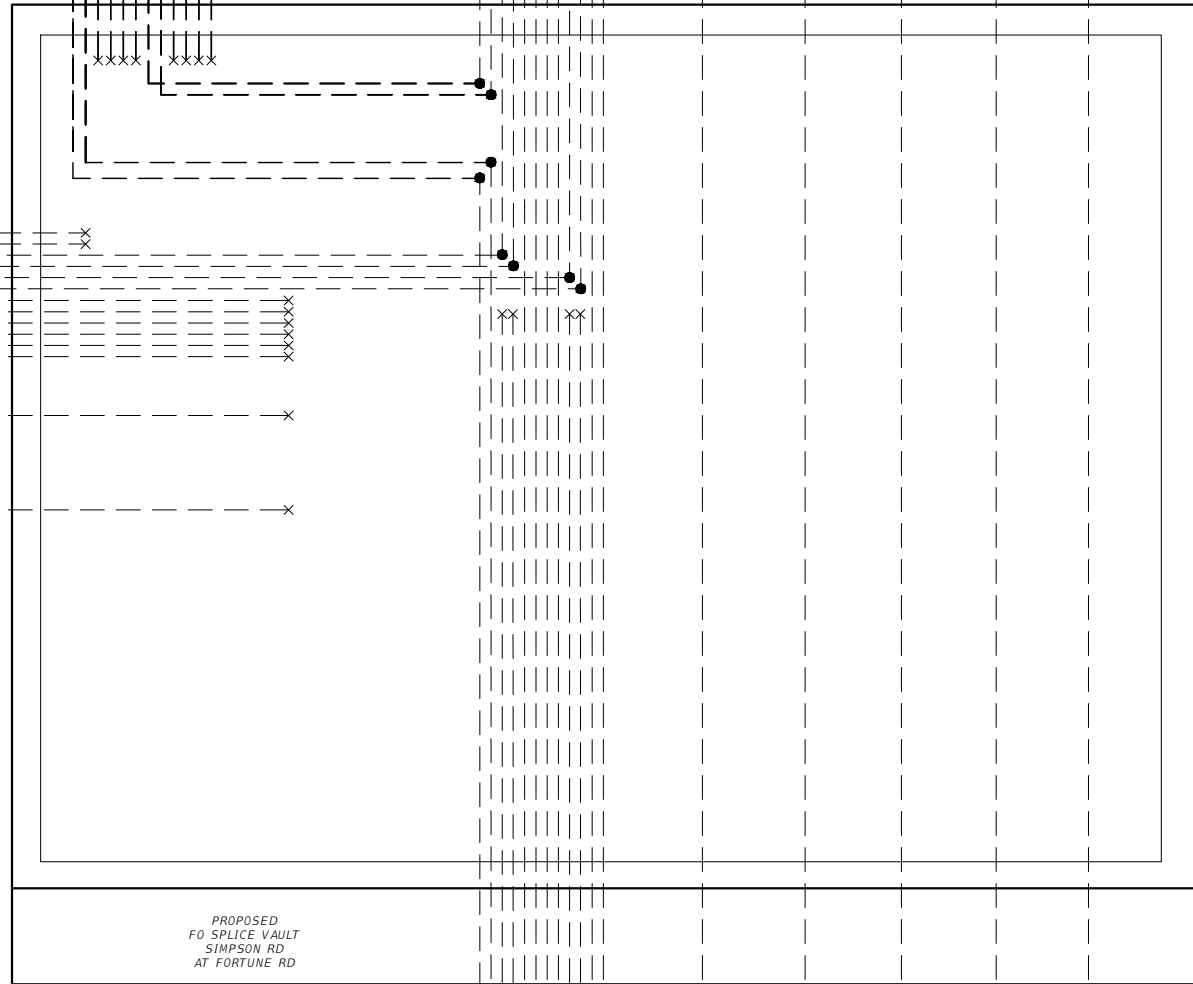
FORTUNE RD - 72 SM FIBER OPTIC CABLE  
 ← WEST EAST →

72 SINGLE MODE FIBER OPTIC CABLE  
 SIMPSON RD NORTH



EXISTING 12 SM FIBER OPTIC PRE-TERM PIGTAILS

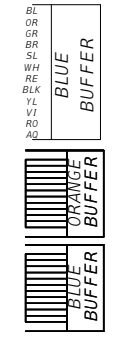
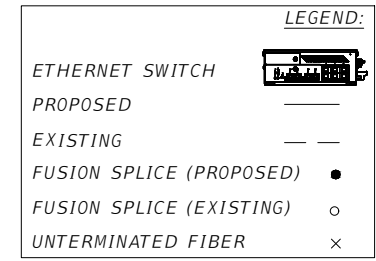
24 SM / 12 MM FIBER OPTIC CABLE  
 FORTUNE RD WEST



PROPOSED FO SPLICE VAULT  
 SIMPSON RD  
 AT FORTUNE RD



72 SINGLE MODE FIBER OPTIC CABLE - SIMPSON RD SOUTH

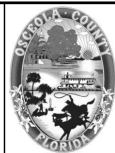


24 SM / 12 MM FIBER OPTIC CABLE  
 FORTUNE RD EAST

SIMPSON RD - 72 SM FIBER OPTIC CABLE  
 ← SOUTH NORTH →

REVISIONS			
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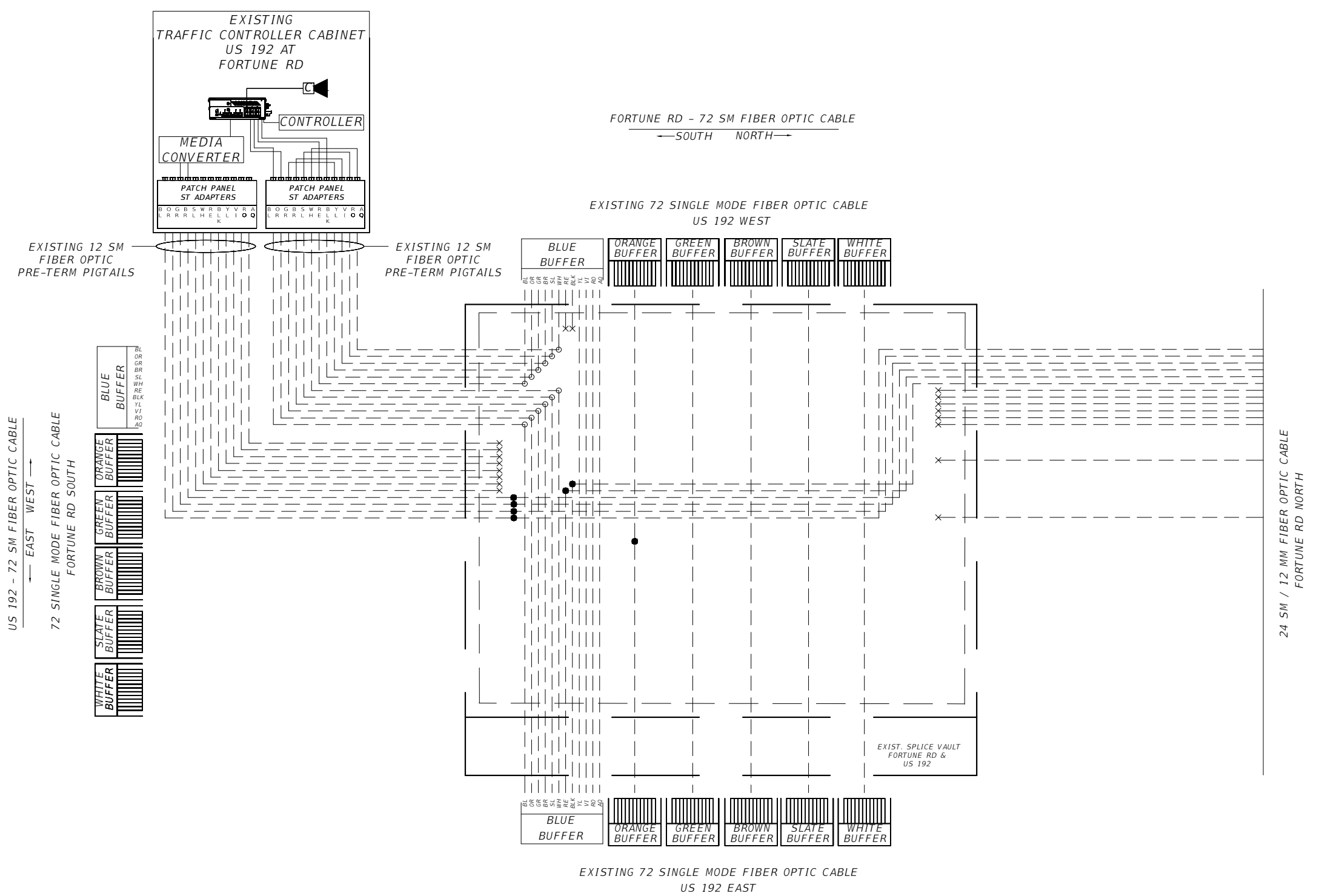
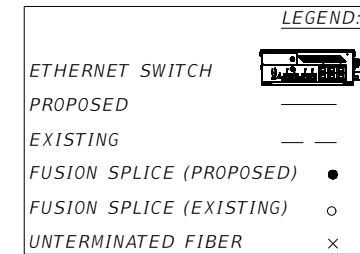


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SPLICE DIAGRAM

SHEET NO.  
 IT-26

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FLORIDA

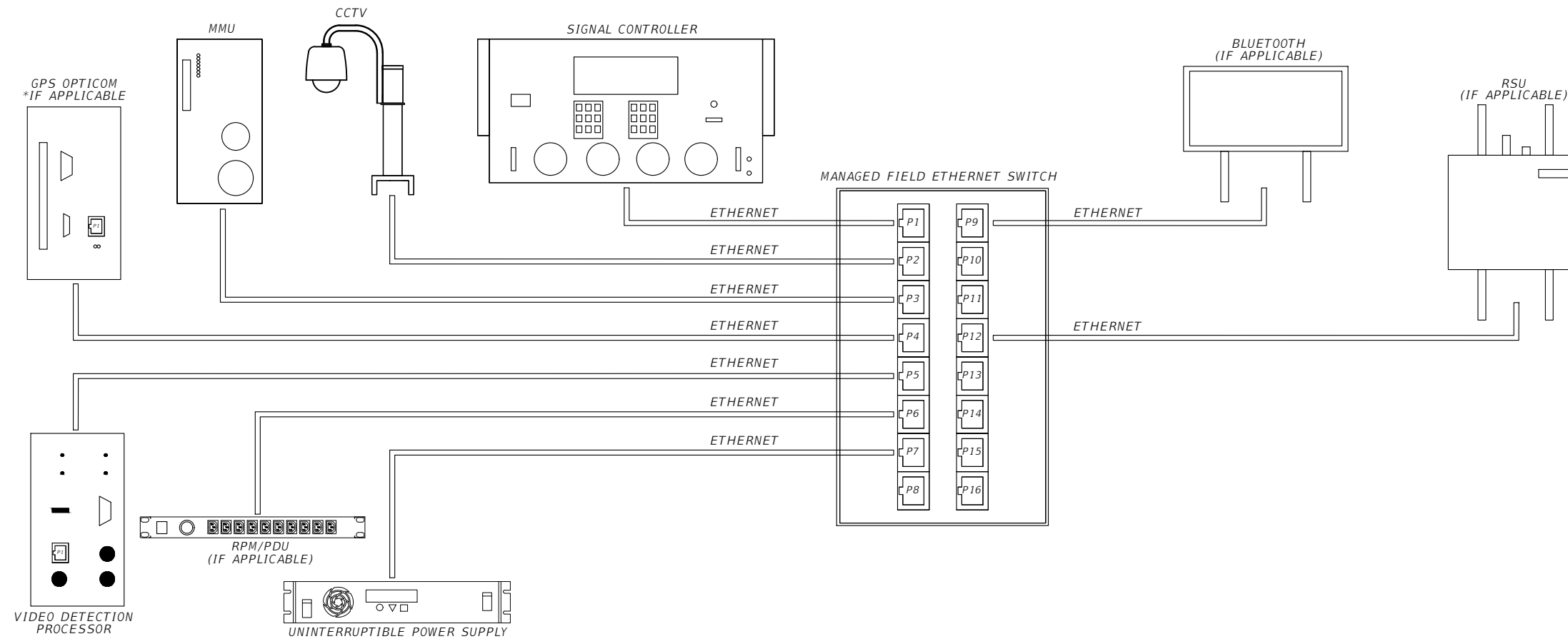
SPLICE DIAGRAM

SHEET NO.  
IT-27

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ETHERNET SWITCH PORT ASSIGNMENT:

SIGNAL CONTROLLER	PORT 1
CCTV	PORT 2
MMU	PORT 3
GPS OPTICOM	PORT 4
VIDEO DETECTION	PORT 5
RPM/PDU	PORT 6
UNINTERRUPTIBLE POWER SUPPLY	PORT 7
VIDEO ACCESS PORT	PORT 8
BLUETOOTH	PORT 9
SPARE	PORT 10
MAINTENANCE PORT	PORT 11
RSU	PORT 12

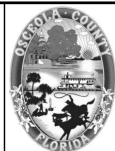


NOTE:  
 PORT ASSIGNMENTS SHOWN ARE FOR PROPOSED ETHERNET SWITCHES ONLY. CONTRACTOR SHALL MAINTAIN EXISTING ETHERNET SWITCHES PORT ASSIGNMENTS.

REVISIONS			
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OSCEOLA COUNTY  
 FLORIDA

ETHERNET SWITCH DETAIL

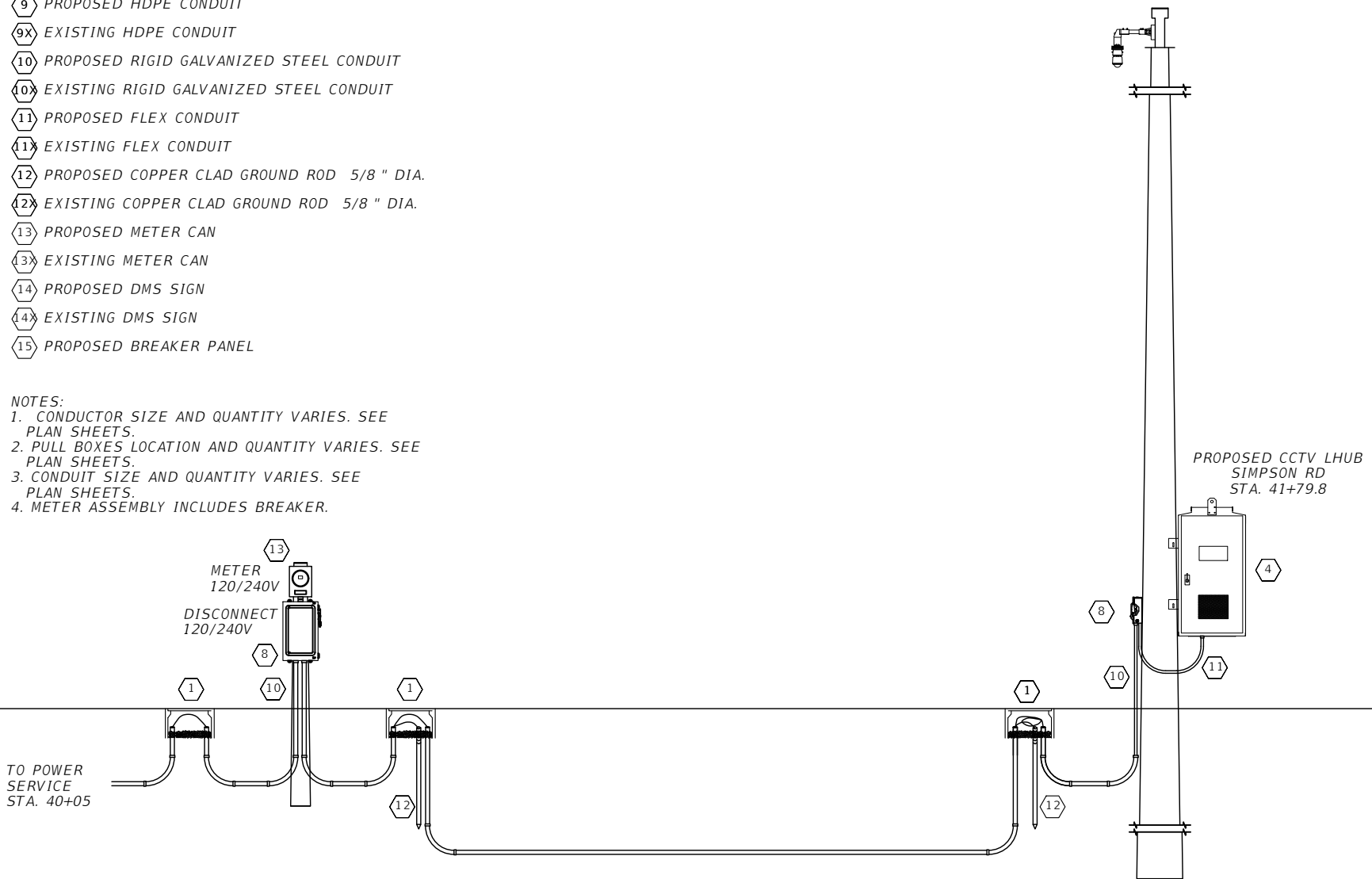
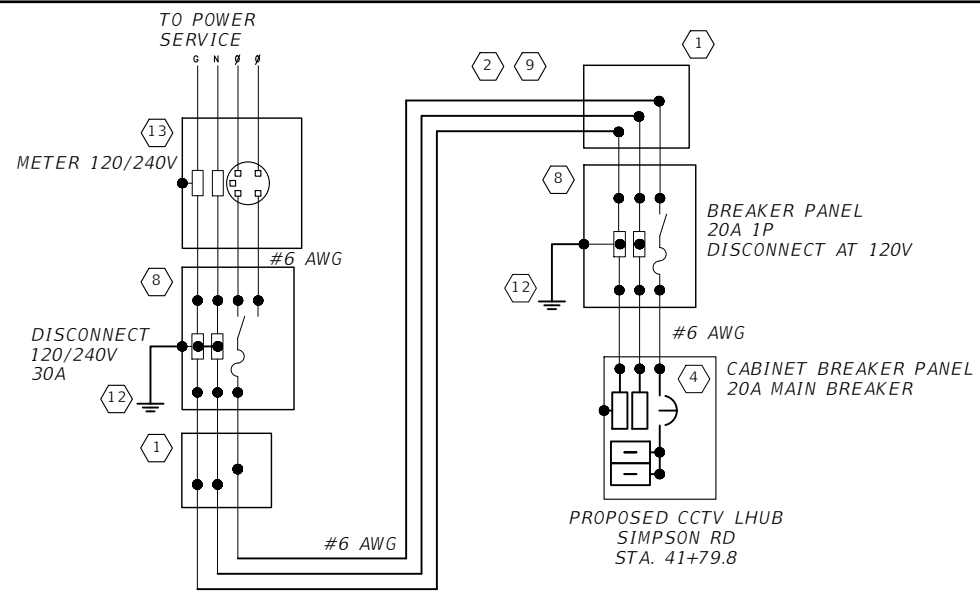
SHEET NO.  
 IT-28

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**KEYED NOTES:**

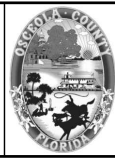
- 1 PULL BOX
- 1X EXISTING PULL BOX
- 2 PROPOSED SERVICE WIRE
- 2X EXISTING SERVICE WIRE
- 3 PROPOSED GENERATOR
- 3X EXISTING GENERATOR
- 4 PROPOSED CABINET W/CIRCUIT BREAKER & SPD
- 4X EXISTING CABINET W/CIRCUIT BREAKER & SPD
- 5 PROPOSED NEMA ENCLOSURE
- 5X EXISTING NEMA ENCLOSURE
- 6 PROPOSED TRANSFORMER
- 6X EXISTING TRANSFORMER
- 7 PROPOSED AUTOMATIC TRANSFER SWITCH
- 7X EXISTING AUTOMATIC TRANSFER SWITCH
- 8 PROPOSED DISCONNECT/BREAKER PANEL
- 8X EXISTING 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 5/8" DIA.
- 12X EXISTING COPPER CLAD GROUND ROD 5/8" DIA.
- 13 PROPOSED METER CAN
- 13X EXISTING METER CAN
- 14 PROPOSED DMS SIGN
- 14X EXISTING DMS SIGN
- 15 PROPOSED BREAKER PANEL

- 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. METER ASSEMBLY INCLUDES BREAKER.



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Jared Knight, P.E.  
PE # 74758



**OSCEOLA COUNTY  
FLORIDA**

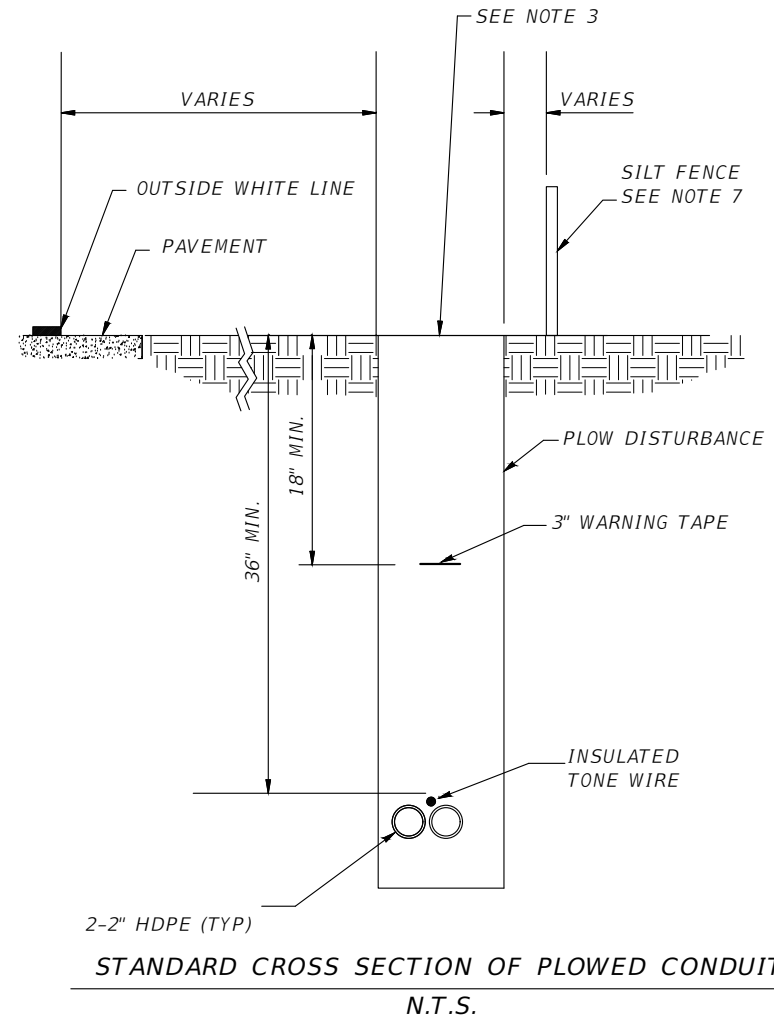
*POWER SERVICE DETAILS*

SHEET  
NO.  
**IT-29**

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NOTES:

1. TRAFFIC CONTROL FOR LONGITUDINAL INSTALLATION SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS.
2. A MINIMUM OF 2'- 0" SHALL BE MAINTAINED FROM EXISTING LANDSCAPE FEATURES.
3. CONSTRUCTION CORRIDOR SHALL BE RESTORED TO ORIGINAL OR IMPROVED CONDITION IMMEDIATELY AFTER COMPLETING THE INSTALLATION OF THE CONDUIT.
4. JOINT COUPLINGS WILL BE USED AS NECESSARY.
5. 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 FDOT CONDUIT INSTALLATION DETAILS INDEX 630-001 SHEET 4.
6. ALL CONCRETE SHALL BE FDOT APPROVED CLASS 1.
7. USE SILT FENCE AS SHOWN IN THE PLANS WHERE WETLANDS ARE PRESENT.



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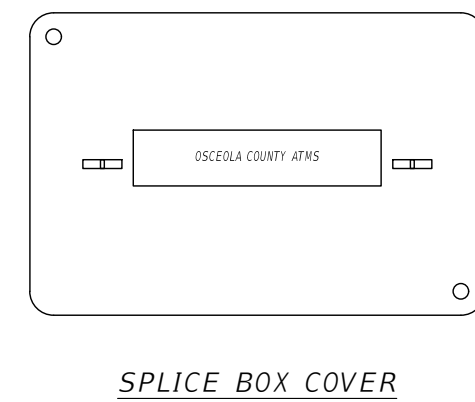
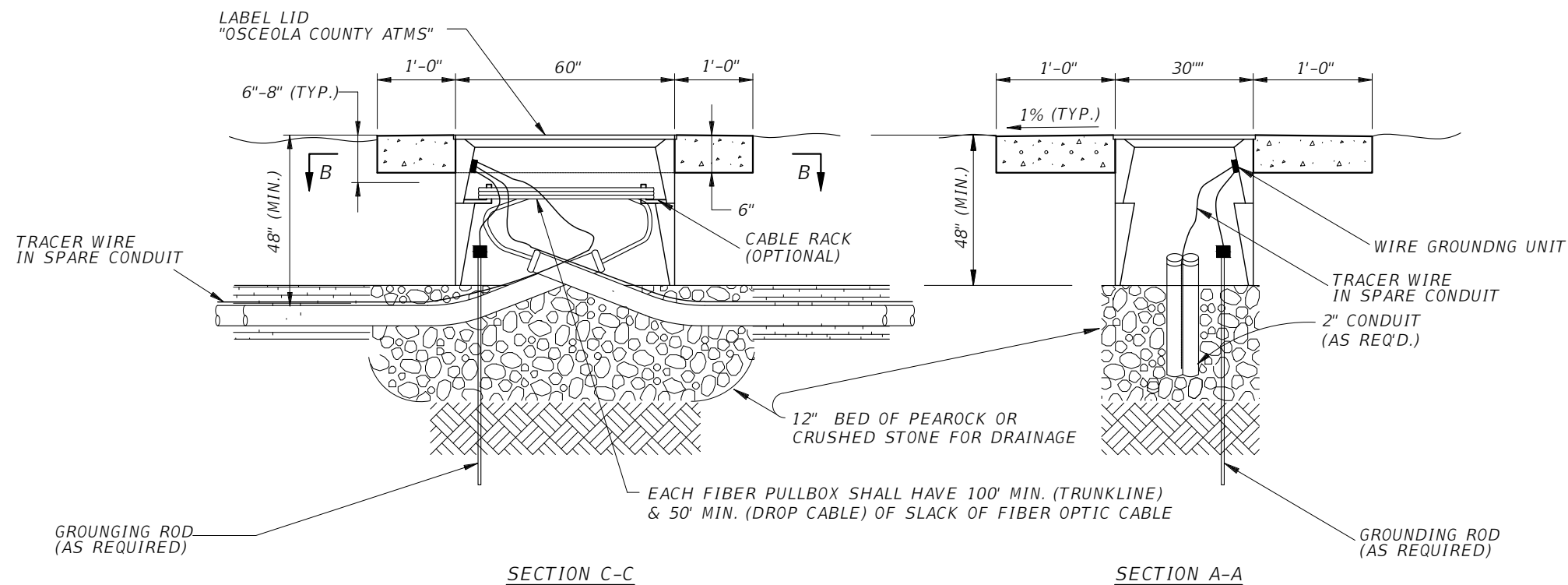
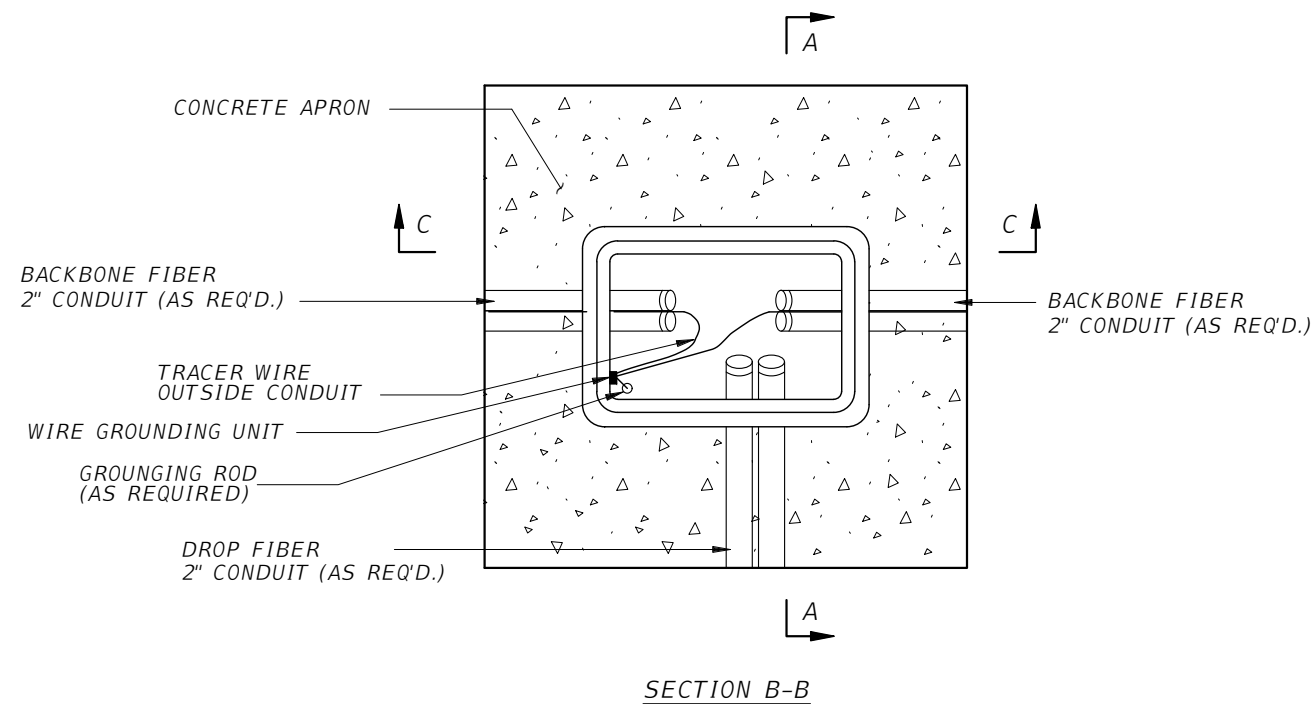
OSCEOLA COUNTY  
FLORIDA

TRENCHING AND PLOWING  
DETAILS

SHEET  
NO.  
IT-30

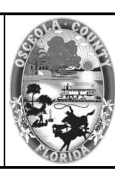
NOTES:

1. REFER TO FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2020-21 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION FOR PULL BOX REQUIREMENTS.
2. FIBER OPTIC PULL BOXES SHALL NOT CONTAIN ELECTRICAL CONDUIT OR CONDUCTOR. ELECTRICAL CONDUIT AND CONDUCTORS SHALL BE INSTALLED IN SEPARATE PULL BOXES.
3. CONDUIT C/L SHALL BE ALIGNED TO TOP EDGE OF PULL BOX TO FACILITATE CABLE PULLING.
4. 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.
5. WIRE GROUNDING UNITS (WGU) FOR TRACER WIRE REQUIRED IN FIBER SPLICE VAULTS.
6. FIBER OPTIC SPLICE BOX SHALL NOT BE INSTALLED IN ROADWAYS OR DRIVEWAYS.
7. 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.
8. SPARE FIBER OPTIC CABLE IS TO BE WOUND NEATLY AND CAREFULLY, AS NOT TO EXCEED THE MINIMUM ALLOWABLE BENDING RADIUS OF THE FIBER OPTIC CABLE.
9. 5/8" COPPER BONDED GROUND RODS SHALL BE USED (AS REQUIRED).
10. GROUNDING WIRES SHALL BE EXOTHERMICALLY WELDED TO GROUND RODS (AS REQUIRED).
11. NOTE THAT THE DIMENSIONS SHOWN ARE THE TYPICAL DIMENSIONS AND MANY VARY SLIGHTLY DEPENDING ON THE MANUFACTURER.



REVISIONS			
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**vhb**  
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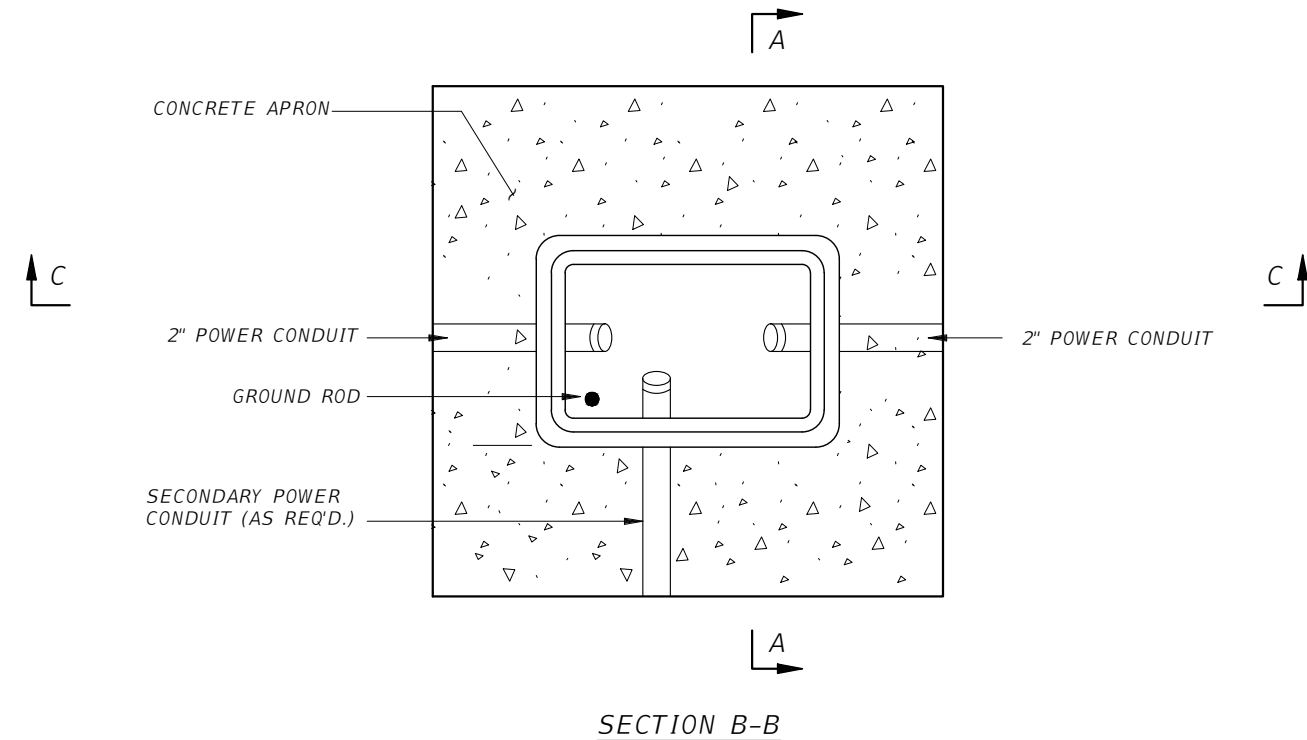


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 FLORIDA**

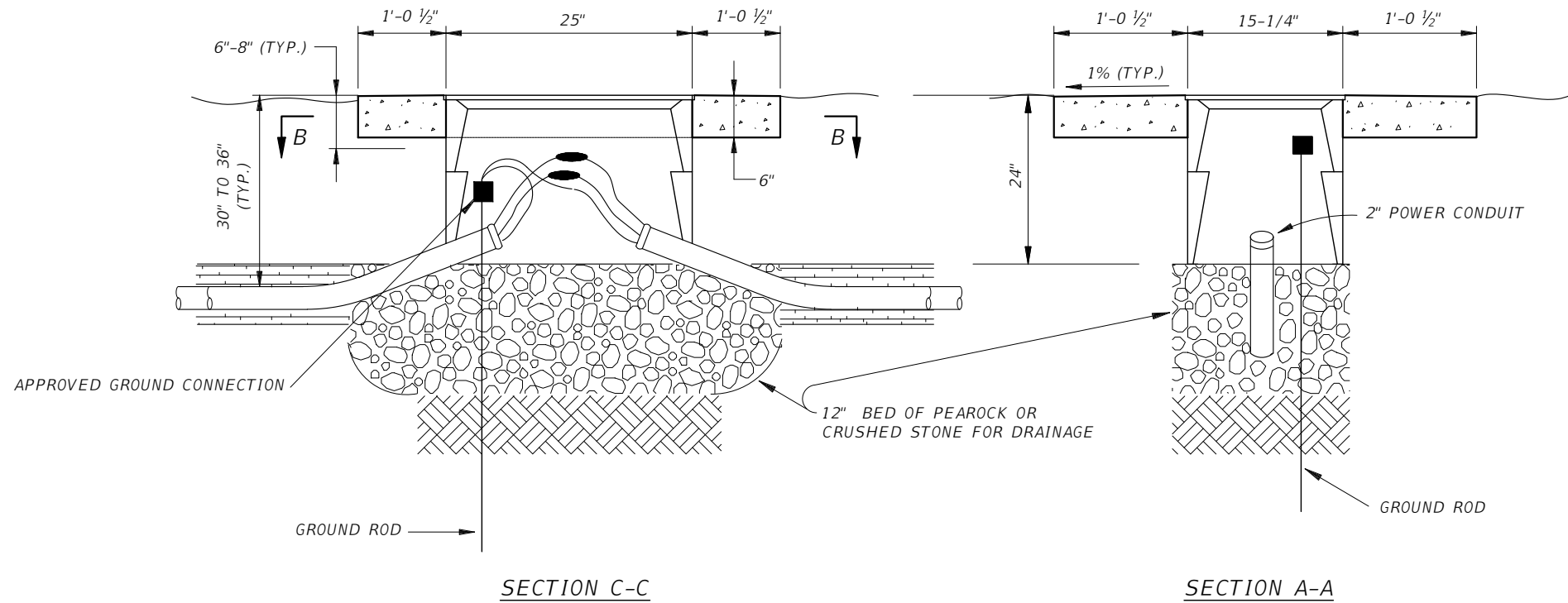
**FIBER OPTIC SPLICE  
 BOX DETAIL**

SHEET  
 NO.  
**IT-31**

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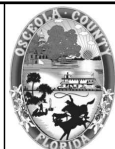


- NOTES:
1. REFER TO FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2020-21 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION FOR PULL BOX REQUIREMENTS.
  2. ELECTRICAL CABLES SHALL BE INSTALLED IN A SEPARATE CONDUIT/PULL BOX SYSTEM FROM THE FIBER OPTIC CONDUIT/PULL BOX SYSTEM. ELECTRICAL AND FIBER OPTIC CONDUITS MAY BE CO-LOCATED WITHIN THE SAME TRENCH AS SHOWN ON THE PLANS.
  3. ALL FIBER OPTIC, SIGNAL, & ELECTRIC PULL BOXES SHALL HAVE MINIMUM 1'-0" WIDE x 6" DEEP CONC APRONS SLOPED AWAY FROM PULL BOX. THE COST OF APRON IS TO BE INCLUDED IN THE COST OF EACH PULL BOX.
  4. ALL SPLICES SHALL BE MADE IN PULLBOX PROPERLY TAPED AND WEATHERPROOFED.
  5. PULL BOXES SHALL BE PER FLORIDA STANDARD PLAN 635-001. PULL BOXES SHALL BE LISTED IN THE FDOT APPROVED PRODUCTS LIST (APL).
  6. PULL BOXES SHALL NOT BE INSTALLED IN ROADWAYS, DRIVEWAYS, PEDESTRIAN RAMPS, OR FLARES UNLESS DIRECTED BY THE ENGINEER.
  7. NOTE THAT DIMENSIONS SHOWN ARE THE TYPICAL DIMENSIONS AND MAY VARY DEPENDING ON MANUFACTURER.



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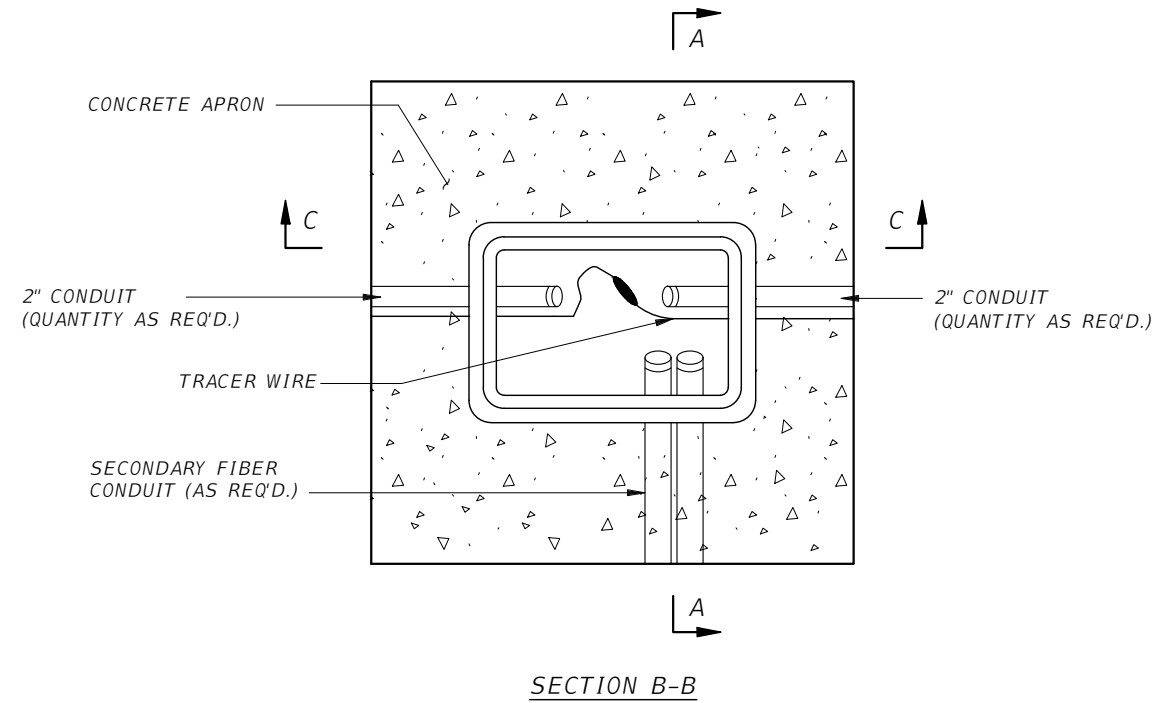
OSCEOLA COUNTY  
FLORIDA

ELECTRICAL PULL BOX  
DETAIL

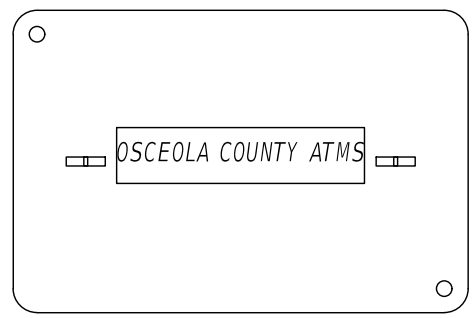
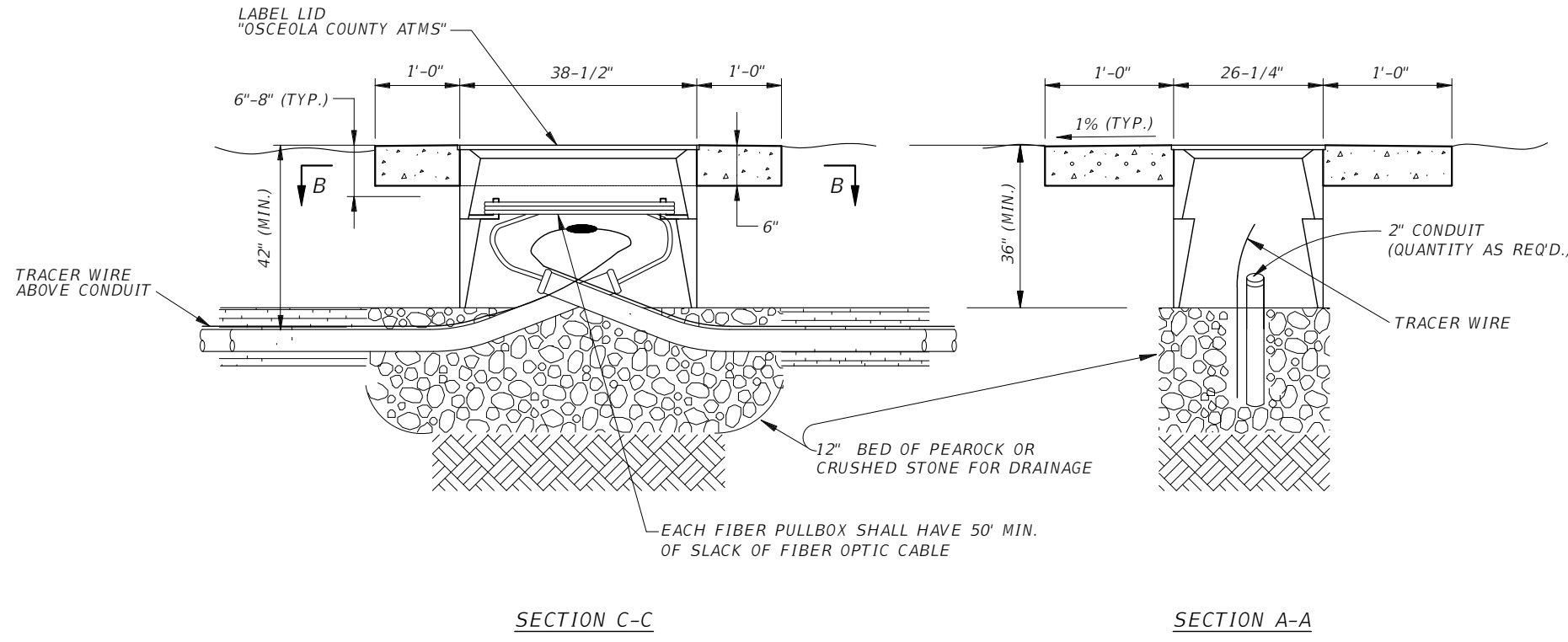
SHEET  
NO.  
IT-32

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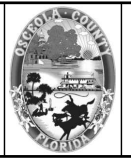
- NOTES:
1. REFER TO FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2020-21 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION FOR PULL BOX REQUIREMENTS.
  2. FIBER OPTIC PULL BOXES SHALL NOT CONTAIN ELECTRICAL CONDUIT OR CONDUCTOR. ELECTRICAL CONDUIT AND CONDUCTORS SHALL BE INSTALLED IN SEPARATE PULL BOXES.
  3. CONDUIT C/L SHALL BE ALIGNED TO TOP EDGE OF PULL BOX TO FACILITATE CABLE PULLING.
  4. 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.
  5. FIBER OPTIC SPLICE BOX SHALL NOT BE INSTALLED IN ROADWAYS OR DRIVEWAYS.
  6. SPARE FIBER OPTIC CABLE IS TO BE WOUND NEATLY AND CAREFULLY, AS NOT TO EXCEED THE MINIMUM ALLOWABLE BENDING RADIUS OF THE FIBER OPTIC CABLE.
  7. 5/8" COPPER BONDED GROUND RODS SHALL BE USED (AS REQUIRED).
  8. GROUNDING WIRES SHALL BE EXOTHERMICALLY WELDED TO GROUND RODS (AS REQUIRED).
  9. NOTE THAT THE DIMENSIONS SHOWN ARE THE TYPICAL DIMENSIONS AND MANY VARY SLIGHTLY DEPENDING ON THE MANUFACTURER.



FIBER BOX COVER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION


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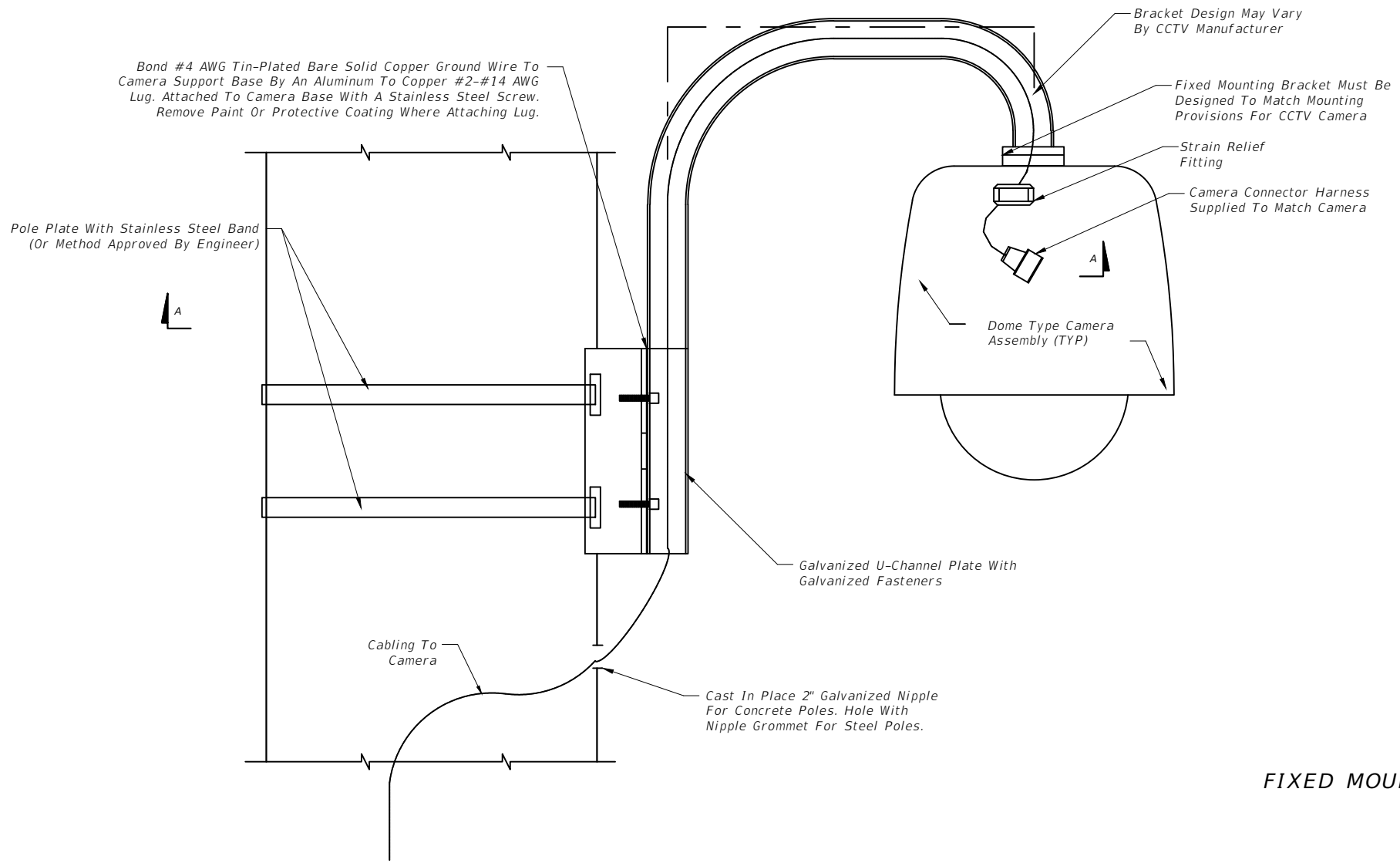


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FIBER PULL BOX  
DETAIL

SHEET  
NO.  
IT-33

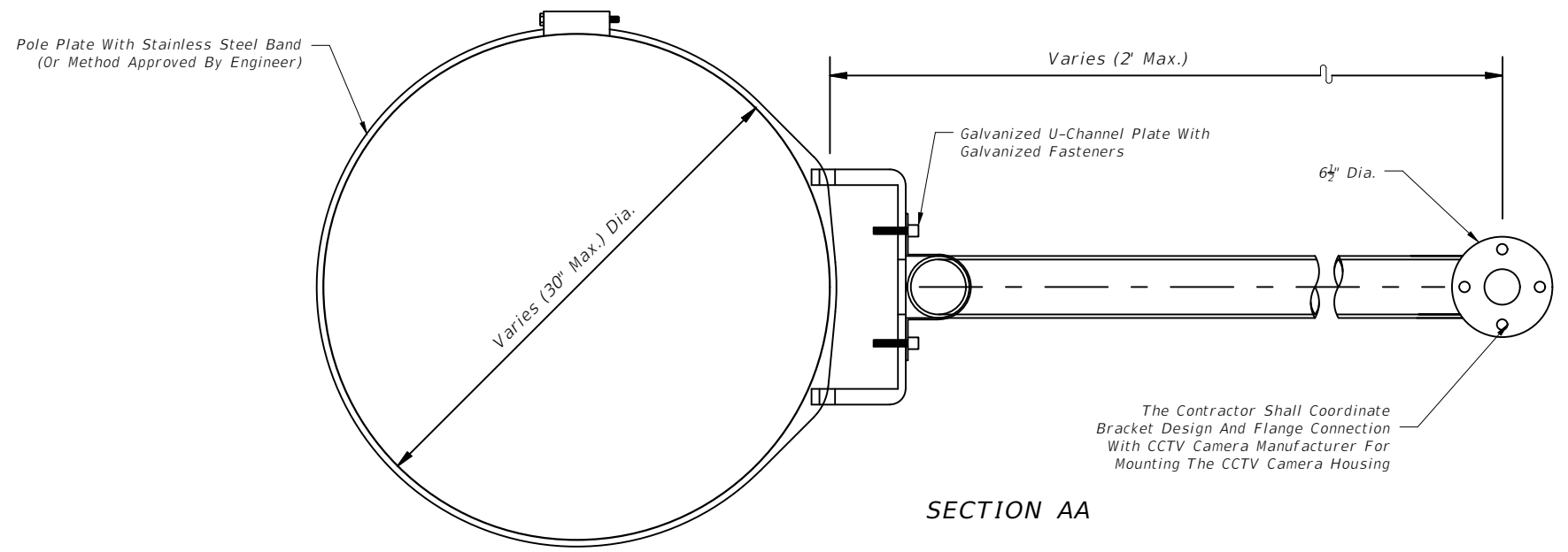
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**GENERAL NOTES:**

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.

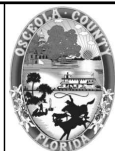
**FIXED MOUNTING BRACKET DETAIL**  
Not To Scale



CAMERA MOUNTING WITH FIXED BRACKET

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**vhb** Engineers | Scientists  
Planners | Designers  
225 E. Robinson Street, Suite 300  
Orlando, FL 32801 (407)839-4006  
Certificate of Authorization # 3932  
Jared Knight, P.E.  
PE # 74758

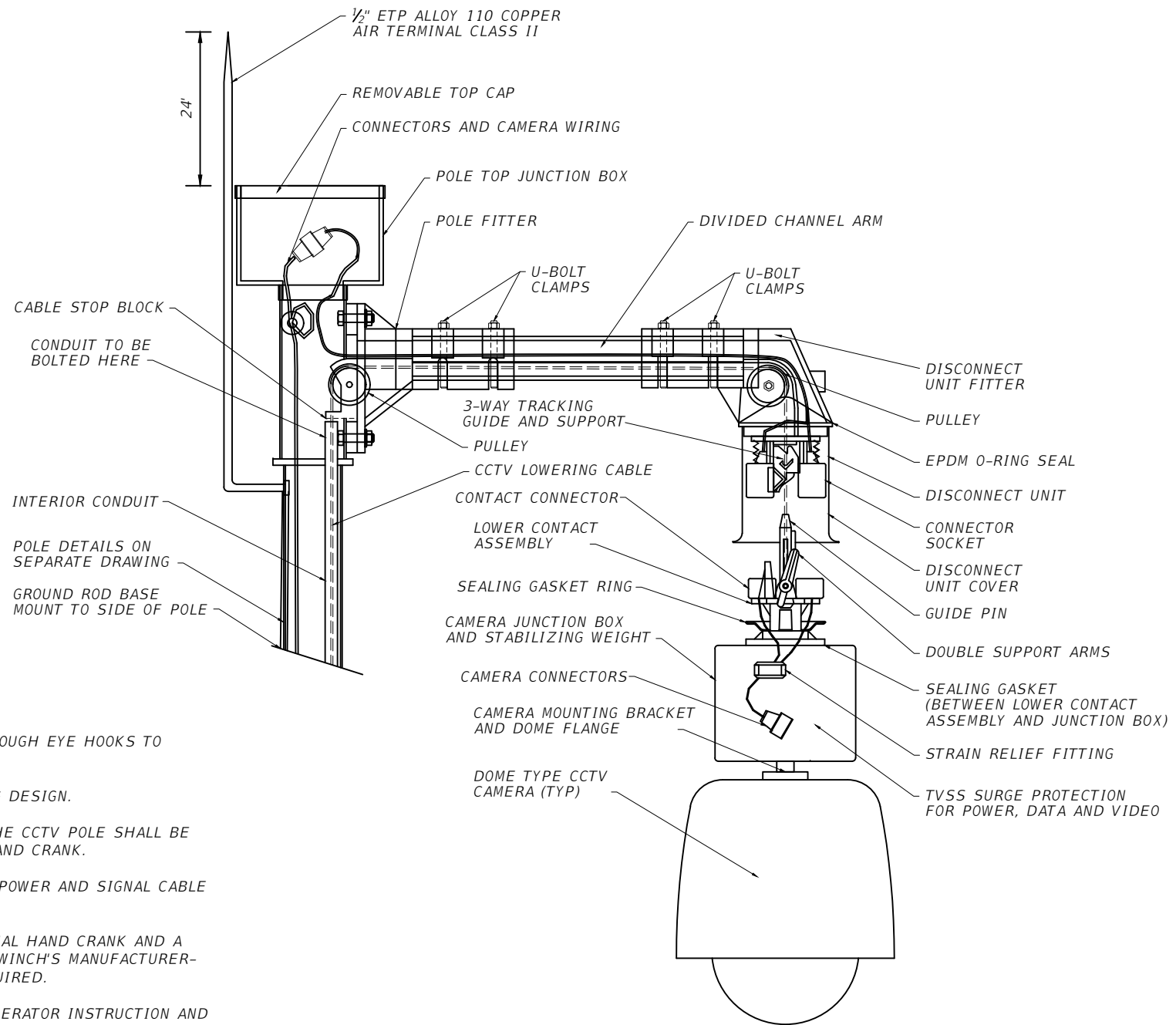


OSCEOLA COUNTY  
FLORIDA

CAMERA MOUNTING BRACKET  
DETAIL

SHEET  
NO.  
IT-34

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CAMERA LOWERING DEVICE DETAIL

NOTES:

1. INTERNAL CAMERA SUPPLY CABLES RUN THROUGH THE INSIDE OF THE POLE SHALL BE INSTALLED THROUGH EYE HOOKS TO PREVENT INTERFERENCE WITH LOWERING MECHANISM CABLE, UNLESS OTHERWISE NOTED.
2. CAMERA LOWERING DEVICE DETAILS ARE REPRESENTATIVE AND DO NOT REFLECT ACTUAL ENGINEERING DESIGN.
3. LOWERING ARM SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY OR AS SHOWN IN THE PLANS. THE CCTV POLE SHALL BE POSITIONED SO THAT THE DOME ENCLOSURE CAN BE SAFELY LOWERED ON THE OPPOSITE SIDE OF THE HAND CRANK.
4. LOWERING DEVICE TO BE SHIPPED READY FOR POLE ATTACHMENT TO INCLUDE 100 FT. OF COMPOSITE POWER AND SIGNAL CABLE PREWIRED TO LOWERING DEVICE AT THE FACTORY.
5. THE LOWERING DEVICE MANUFACTURER SHALL SUPPLY BOTH A PORTABLE LOWERING TOOL WITH A MANUAL HAND CRANK AND A HALF-INCH CHUCK VARIABLE-SPEED REVERSIBLE INDUSTRIAL-DUTY ELECTRIC DRILL THAT MATCHES THE WINCH'S MANUFACTURER-RECOMMENDED REVOLUTIONS PER MINUTE. ONE LOWERING TOOL PER EVERY 10 LOWERING DEVICES IS REQUIRED.
6. THE LOWERING DEVICE MANUFACTURER SHALL PROVIDE AN ON-SITE INSTALLATION INSPECTION AND OPERATOR INSTRUCTION AND CERTIFICATION. THIS ENSURES THE PRODUCT IS ASSEMBLED CORRECTLY AND THAT ALL NECESSARY PERSONS ARE TRAINED IN THE PROPER, SAFE OPERATION OF THE SYSTEM. BEFORE ERECTING THE FIRST POLE THE CONTRACTOR MUST CONTACT THE LOWERING DEVICE SUPPLIER AND SCHEDULE A MANUFACTURER'S REPRESENTATIVE TO BE ON-SITE.
7. DESIGN CAMERA MOUNTING ARM AND CONNECTION TO TENON ACCORDING TO FDOT STRUCTURES MANUAL (CURRENT EDITION)
8. CAMERA TO BE MOUNTED TO CAMERA JUNCTION BOX AND STABILIZING WEIGHT VIA 1 1/4" STANDARD NPT PIPE THREAD.
9. USE AIR TERMINAL EXTENSION THEN THE POLE TOP JUNCTION BOX IS WIDER THAN TOP OF POLE.
10. THE STAINLESS STEEL DEVICE LOWERING CABLE SHALL BE INSTALLED INSIDE THE POLE WITHIN A 1 1/4" DIAMETER PVC CONDUIT.
11. ALL COMMUNICATION AND POWER CABLES MUST BE NEATLY BUNDLED AND SECURED.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION


 Engineers | Scientists  
 Planners | Designers  
 225 E. Robinson Street, Suite 300  
 Orlando, FL 32801 (407)839-4006  
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 PE # 74758

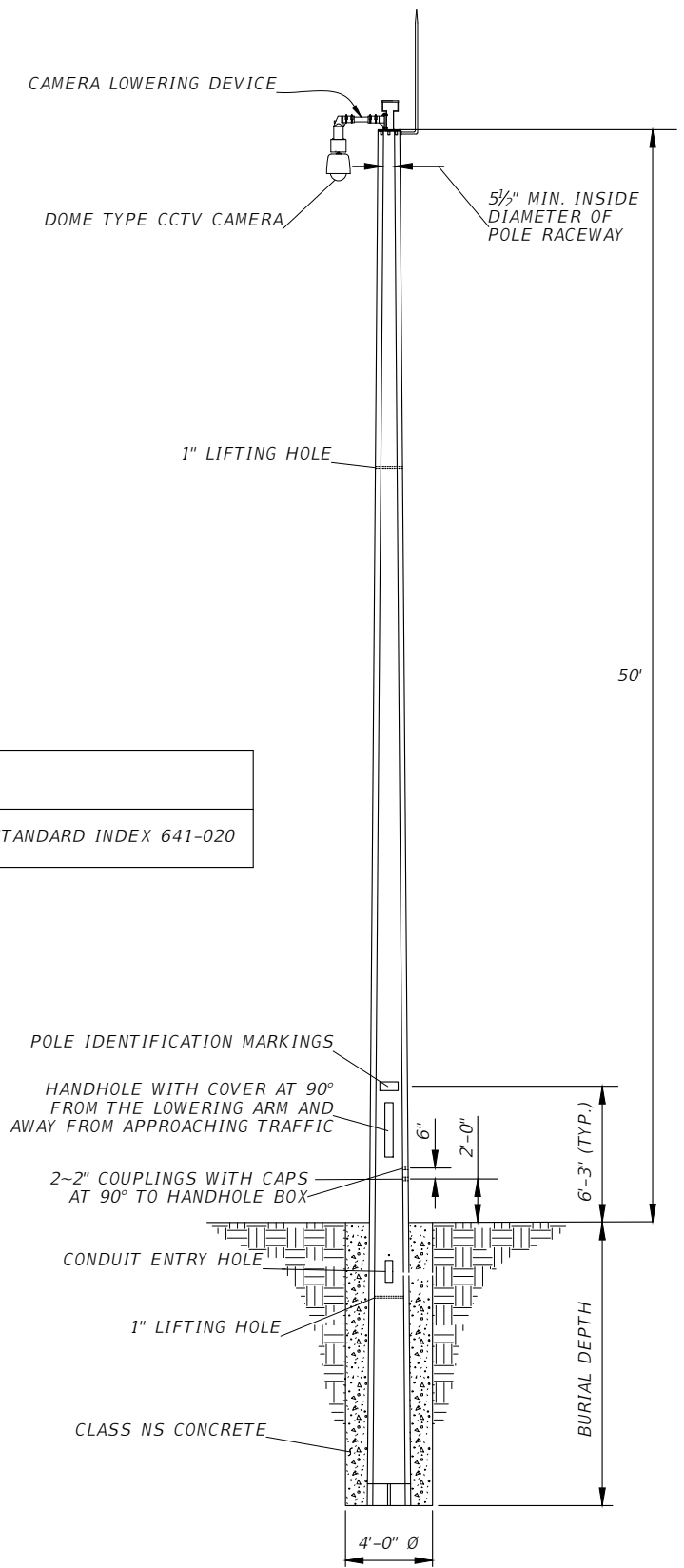


OSCEOLA COUNTY  
FLORIDA

CCTV CAMERA LOWERING  
DEVICE

SHEET  
NO.  
IT-35

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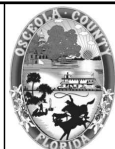
DEVICE	STATION	OFFSET	PLAN SHEET	ABOVE GROUND HEIGHT (FT)	POLE LENGTH (FT)	BURIAL DEPTH (FT)	NOTES
1 CCTV-1	STA. 41+79.8	50.5' RT	IT-11	50	69	19	WORK THIS SHEET WITH FDOT STANDARD INDEX 641-020

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



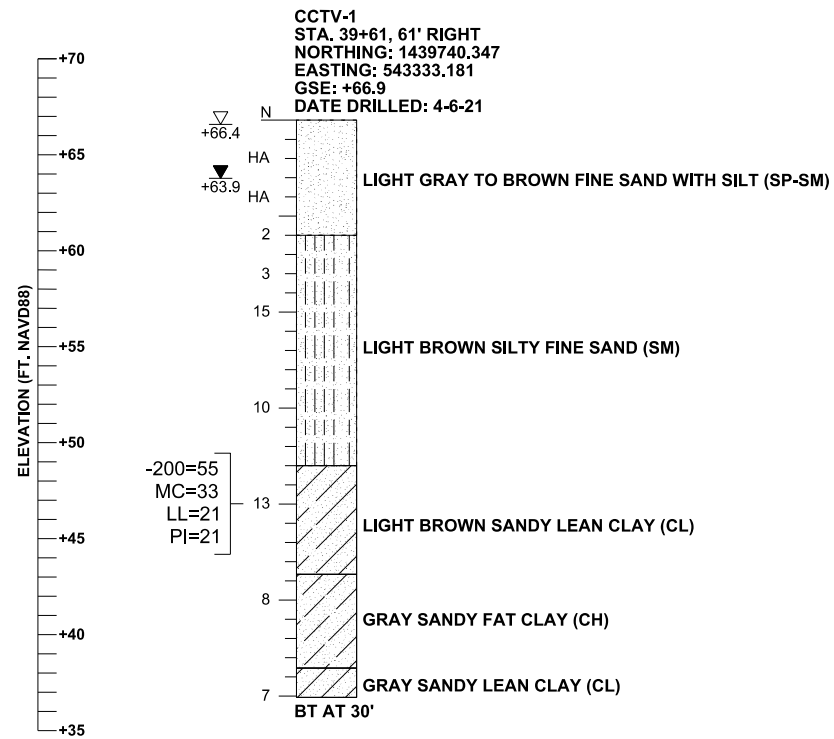
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Certificate of Authorization # 3932  
Kenneth B. Ray, P.E.  
PE # 74776



OSCEOLA COUNTY  
FLORIDA

POLE DATA SHEET

SHEET NO.  
IT-36



**LEGEND**

- GSE GROUND SURFACE ELEVATION (FT. NAVD88)
- N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
- HA HAND AUGERED FOR UTILITY CLEARANCE
- ▽ +72.8 ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION (FT. NAVD88)
- ▼ +69.9 ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88) 24 HRS. AFTER DATE DRILLED
- BT BORING TERMINATED AT DEPTH INDICATED
- 200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE
- MC= PERCENT NATURAL MOISTURE CONTENT
- LL= LIQUID LIMIT
- PI= PLASTICITY INDEX



**GENERAL NOTES**

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A SUB-METER ACCURACY TRIMBLE GPS UNIT. BORING LOCATIONS WERE SURVEYED BY DRMP, INC. FOR VERTICAL AND HORIZONTAL CONTROL.

ACCORDING TO THE FDEP SEPTEMBER 2017 POTENTIOMETRIC CONTOURS MAP, THE POTENTIOMETRIC SURFACE OF THE FLORIDA AQUIFER IN THE VICINITY OF THE SUBJECT INTERSECTIONS IS APPROXIMATELY +50 FEET NGVD. THE CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN HEAD LEVELS UP TO +50 FEET NGVD.


**SPLIT SPOON SAMPLER:**  
INSIDE DIAMETER: 1.375 IN.  
OUTSIDE DIAMETER: 2.0 IN.  
AVERAGE HAMMER DROP: 30 IN.  
HAMMER WEIGHT: 140 LBS.  
HAMMER TYPE: AUTOMATIC

**SECTION: 19**  
**TOWNSHIP: 25 SOUTH**  
**RANGE: 30 EAST**

**CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL**

GRANULAR SOILS	AUTOMATIC HAMMER N VALUE (blows per foot)	RELATIVE DENSITY
SANDS	0-3	VERY LOOSE
	3-8	LOOSE
	8-24	MEDIUM DENSE
	24-40	DENSE
	OVER 40	VERY DENSE
NON-GRANULAR SOILS	AUTOMATIC HAMMER N VALUE (blows per foot)	CONSISTENCY
SILTS, CLAYS, MUCK, PEAT	0-1	VERY SOFT
	1-3	SOFT
	3-6	FIRM
	6-12	STIFF
	12-24	VERY STIFF
	OVER 24	HARD

**FIGURE 4**

REVISIONS				CHRISTOPHER P. MEYER, P.E. P.E. LICENSE NUMBER 49328 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 2510 MICHIGAN AVENUE, SUITE D KISSIMMEE, FL 34744-1933		OSCEOLA COUNTY FLORIDA	SPT BORING RESULTS FOR CCTV POLES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					T-37

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