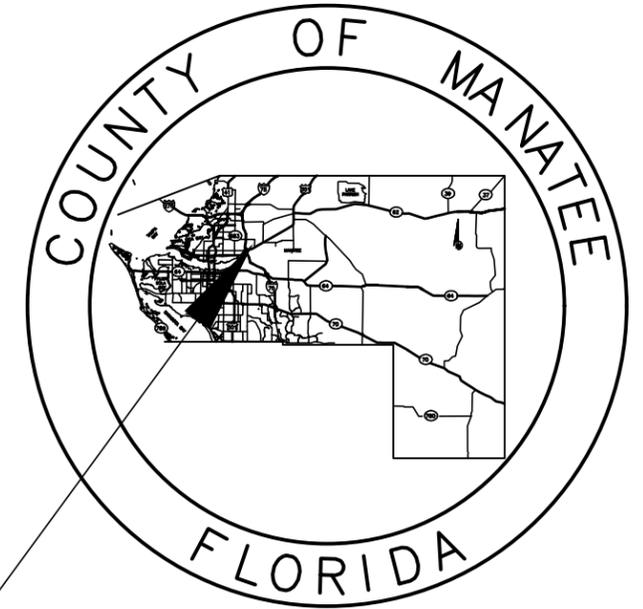


STATE OF FLORIDA
COUNTY OF MANATEE

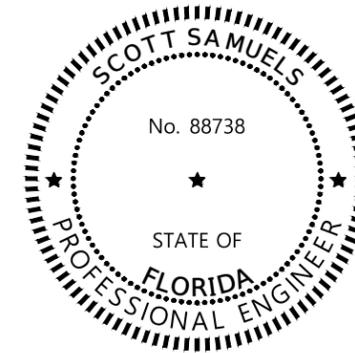


PROPOSED INTELLIGENT TRANSPORTATION
 SYSTEMS (ITS) PLANS FOR 69TH STREET EAST
 INTERSECTION IMPROVEMENTS
 ELLENTON, FLORIDA

MANATEE COUNTY PROJECT No: 6083160

LOCATION
 OF PROJECT

CONSTRUCTION PLANS
JANUARY 2023



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Scott Samuels 2023.01.13
 11:35:19-05'00'

ON THE DATE ADJACENT TO THE SEAL.

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

INTELLIGENT TRANSPORTATION SYSTEM PLANS
 PROFESSIONAL OF RECORD: SCOTT SAMUELS, P.E. NO. 88738
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET, SUITE 400
 TAMPA, FL 33602



ATTENTION IS DIRECTED TO THE FACT THAT
 THESE PLANS MAY HAVE BEEN ENLARGED IN
 SIZE BY REPRODUCTION. THIS MUST BE
 CONSIDERED WHEN OBTAINING SCALED
 DATA.

Know what's below
 Call before you dig

CONTRACT PLAN COMPONENTS
 INTELLIGENT TRANSPORTATION SYSTEMS PLANS

INDEX OF ITS PLANS

SHEET NO.	DESCRIPTION
IT-1	KEY SHEET
IT-2 - IT-4	GENERAL NOTES
IT-5 - IT-10	ITS PLANS
IT-11	FIBER OPTIC MARKER DETAIL
IT-12	DIRECTIONAL BORE AND CONDUIT DETAILS
IT-13	SPLICING DIAGRAM
IT-14 - IT-16	WIRING DIAGRAM
IT-17 - IT-19	CABINET DETAILS
IT-20 - IT-21	ITS MOUNTING DETAIL
IT-22	MANAGED FIELD ETHERNET SWITCH PORT ASSIGNMENT DETAIL
IT-23	ITS CROSS SECTION

GOVERNING DESIGN STANDARDS:

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2022-23 DESIGN STANDARDS
 eBOOK (DSeB) AND APPLICABLE DESIGN STANDARDS REVISIONS (DSRs) AT
 THE FOLLOWING WEBSITE:
<https://www.fdot.gov/design/standardplans/current/default.shtm>

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>

MANATEE COUNTY PROJECT MANAGER: JIM SHULER, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
N/A	2023	IT-1

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CONDUIT NOTES (CONTINUATION):

5. CONDUIT LOCATIONS 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 SIGNIFICANT DEVIATION FROM THE PLANS SHALL BE APPROVED BY THE ENGINEER. MINIMUM REQUIRED CONDUIT BURIAL DEPTHS SHALL BE MAINTAINED.
6. ALL INSTALLED UNDERGROUND CONDUIT SHALL BE SEALED AT BOTH ENDS TO PREVENT THE DUST, DIRT, AND MOISTURE FROM ENTERING THE CONDUIT. USE MECHANICAL DUCT PLUGS THAT PROVIDE A WATERTIGHT SEAL BETWEEN THE CONDUIT AND CABLING. MECHANICAL DUCT PLUGS SHALL BE INSTALLED ON ALL SPARE FIBER AND ELECTRICAL CONDUIT.
7. WHEN TRENCHING FOR INSTALLATION, THE CONTRACTOR MAY RUN COMMUNICATIONS AND POWER SERVICE IN THE SAME TRENCH. THE POWER SERVICE SHALL HAVE SEPARATE PULL BOXES FOR ACCESS. THE CONTRACTOR SHALL NOT INSTALL COMMUNICATIONS AND POWER SERVICE IN THE SAME CONDUIT, PULL BOX OR MANHOLE.
8. THE CONTRACTOR SHALL PLACE ALL CONDUITS IN A MANNER THAT MINIMIZES DEFLECTION BOTH HORIZONTALLY AND VERTICALLY. THUS, MINIMIZES STRESS ON CABLES DURING CABLE INSTALLATION. CONDUIT FOR FIBER OPTIC CABLE IN TRENCHES SHALL NOT DEFLECT MORE THAN 1 INCH PER FOOT VERTICALLY OR HORIZONTALLY. BENDS SHALL NOT BE PERMITTED EXCEPT AS SPECIFIED ON THE PLANS.
9. THE CONDUIT DETAILS GIVEN ARE MEANT TO BE SCHEMATIC IN NATURE. DUE TO ACTUAL FIELD CONDITIONS AND/OR NEEDS, DEVIATIONS MAY BE NECESSARY. DIMENSIONAL DISTANCES FOR CONDUIT LOCATIONS ARE PROVIDED TO ASSIST THE CONTRACTOR WITH CONDUIT PLACEMENT. THE CONTRACTOR SHALL TAKE THIS INTO ACCOUNT WHEN PLACING CONDUIT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING CONDUIT AROUND EXISTING UTILITIES AND OBSTRUCTIONS.
10. ALL CONDUIT TRENCHES SHALL BE BACKFIELD COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF THE WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. DO NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN THE SAME DAY/NIGHT OPERATION.

BRACKETS AND SPACERS WHICH ARE REQUIRED TO OFFSET THE RIGID METAL CONDUIT FROM THE MOUNTING, SHALL BE OF SIMILAR MATERIALS TO PREVENT CATHODIC REACTION.

11. ALL NEW CONDUIT SHALL BE PLACED AT A MINIMUM DEPTH OF 30 INCHES UNLESS PLACED IN AN AREA OF NEW FILL, IN WHICH CASE THE CONDUIT SHALL BE 48 INCHES. DIRECTIONALLY BORED CONDUIT SHALL BE AT A MINIMUM DEPTH OF 48 INCHES.
12. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR BORING.
13. IN AREAS WHERE CONDUIT INSTALLATIONS IMPACT EXISTING SIDEWALK REPLACE COMPLETE FLAGS OF SIDEWALK. PATCHING OF SIDEWALK WILL NOT BE ACCEPTED.
14. #14 XHHW PULL WIRE SHALL BE INSTALLED IN ALL CONDUITS. AT LEAST 2 FEET OF PULL WIRE SHALL BE ACCESSIBLE AT EACH CONDUIT TERMINATION AND SECURED IN THE PULL BOX OR PLACE OF TERMINATION.

ITS EQUIPMENT AND ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WIRING SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.
2. UNDER COUNTY'S SUPERVISION, THE CONTRACTOR SHALL PERFORM AN INITIAL OPERATION TEST TO ENSURE THE CCTV ASSEMBLY HAS BEEN INSTALLED CORRECTLY AS A COMPLETE, WORKING ON NETWORK, AND FUNCTIONALLY ACCEPTABLE INSTALLATION.
3. GROUNDING: ALL COSTS FOR GROUNDING SHALL BE INCLUDED IN THE COST OF THE ITEM BEING GROUNDED. ALL GROUND ROD ASSEMBLIES FOR POLES, SERVICES, CABINETS, AND OTHER RELATED EQUIPMENT SHALL BE BONDED TOGETHER TO FORM AN INTEGRATED GROUNDING SYSTEM USING #6 AWG THHN COPPER WIRE. THE UPPER END OF ALL GROUND RODS SHALL BE 18 INCHES BELOW GROUND ELEVATION. MARK GROUND ROD LOCATION WITH PERMANENT MARKER SUCH AS AN EPOXIED STICKER LOCATED ON THE NEAREST CURB AND PROVIDE AS-BUILT DRAWINGS WITH THE LOCATION OF GROUND RODS MARKED. GROUNDING CONDUCTOR MUST BE #6 OR LARGER INSULATED COPPER.

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

GROUND RESISTANCE TESTER, OR OTHER APPROVED MEANS SHALL BE USED TO ACQUIRE THE GROUND ROD RESISTANCE. THE ENGINEER, OR A REPRESENTATIVE OF THE ENGINEER FROM THE TRAFFIC OPERATIONS DIVISION STAFF BE PRESENT DURING THE TEST.

4. PROVIDE DRIP LOOPS, FOR EXPOSED CABLING, AS NECESSARY TO PREVENT WATER FROM RUNNING DOWN THE CABLE AND ENTERING EQUIPMENT, POLES CONDUITS, OR EQUIPMENT CABINETS/ENCLOSURES.

5. ALL UPS BATTERIES SHALL BE SEALED LEAD ACID WITH SUSPENDED ELECTROLYTES (ABSORBENT GLASS MAT) WITH A SAFETY VENTING VALVE FOR GAS PRESSURE RELEASE.
6. CONTRACTORS PERFORMING FIBER OPTIC CABLE SPLICING, REPAIR, OR REPLACEMENT SHOULD BE QUALIFIED AS A "CORNING LANDSCAPE APPROVED INSTALLER" AND HAVE MEMBERSHIP IN THE "CORNING NETWORK OF PREFERRED INSTALLERS (NPI)" SUCH THAT THEIR WORK ON EXISTING FDOT FIBER OPTIC CABLING WILL NOT VOID THE CURRENT PRODUCT WARRANTY.
7. CONDUCTOR SPLICES FOR ELECTRICAL SERVICE WIRE MUST BE PERFORMED AS DESCRIBED IN SECTION 992-1.7 OF THE STANDARD SPECIFICATIONS.
8. CONTRACTOR TO CONTACT TRAFFIC ENGINEERING DIVISION: MR. MUKUNDA GOPALAKRISHNA (941-749-3500 EXT. 7813) TO OBTAIN IP ADDRESSES FOR FIELD DEVICES AND ETHERNET SWITCH CONFIGURATION INFORMATION.

UTILITIES NOTES:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR, VIA SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT 1-800-432-4770, IN COORDINATION WITH UNDERGROUND AND OVERHEAD UTILITY OWNERS. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS/AGENCIES LISTED WITHIN OR IMPACTED BY THESE PLANS, NOT LESS THAN TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS IN ADVANCE OF POLE SETTING OPERATIONS WHERE CONFLICT WITH OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED AND, IN ALL CASES, WHERE JOINT USE POLES ARE CALLED FOR.

THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY FOR THEIR ASSISTANCE IN PERFORMING ALL NECESSARY WORK UNDER POWER LINES AT SIGNAL POLES, SUCH AS THE INSTALLATION OF SIGNAL CABLE, FIBERGLASS INSULATORS, AND SIGNAL POLES.

ALL LOCATIONS WHERE THE REQUIRED VERTICAL CLEARANCE TO THE POWER LINE CANNOT BE MAINTAINED, A QUALIFIED REPRESENTATIVE FROM THE POWER COMPANY SHALL BE PRESENT DURING ALL WORK UNDER POWER LINES. ANY COST ASSOCIATED WITH THIS SHALL BE INCLUDED IN THE RELATED PAY ITEMS.

4. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. REFER TO ROADWAY PLAN SET, WHICH IS WHERE THE PROPOSED UTILITIES ARE DEPICTED
5. THE CONTRACTOR IS TO HAND DIG THE FIRST 4' AT EACH POLE INSTALLATION LOCATION IN ORDER TO VERIFY UTILITY CLEARANCE.
6. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ANY UTILITY OWNER(S) THAT MAY OR MAY NOT BE A "SUNSHINE ONE-CALL" MEMBER IN ORDER TO COORDINATE UTILITY MARKING AND LOCATING AT A MINIMUM OF TWO DAYS PRIOR TO DIGGING. IT SHOULD BE NOTED THAT FDOT IS NOT A MEMBER OF "SUNSHINE ONE-CALL" AND THAT SEPARATE CONTACT WILL NEED TO BE MADE IN ORDER TO OBTAIN UTILITY LOCATE INFORMATION FOR FDOT FACILITIES.
7. COMPLY WITH THE REQUIREMENTS OF FDOT'S UTILITY ACCOMMODATION GUIDE (LATEST EDITION).
8. THE CONTRACTOR SHALL HAND DIG THE FIRST 48 INCHES OF THE HOLE FOR THE POLE FOUNDATION OR CONDUIT RUN WHERE UTILITIES ARE IN CLOSE PROXIMITY.

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NUMBER	DESCRIPTION	DATE	PROJECT #	15-0909JE	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	SHEET NO.	
			SURVEY #	18-2238	DESIGNED	CT	1/12/23				GENERAL NOTES (2)
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23				
			SCALE	NTS	CHECKED	SS	1/12/23				

PAY ITEM NOTES:

- 630-2-11:**
IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY DIRECTIONAL BORING. ALL CONDUIT RUNS SHOWN ON THE PLANS ARE SCHEMATIC AND FIELD ADJUSTMENTS MAY BE NECESSARY.
- A. USE A MINIMUM OF 2" DIAMETER CONDUIT FOR FIBER OPTIC INTERCONNECT CABLE.
- B. USE ROUTE MARKERS FOR FIBER OPTIC CONDUIT RUNS.
- 630-1-121:**
SHALL BE 12-COUNT FIBER OPTIC CABLE.
- 630-1-123:**
SHALL BE 72-COUNT FIBER OPTIC CABLE.
- 633-3-11:**
SHALL BE SIZED TO ACCOMMODATE ENTRY/EXIT LOCATIONS AND NUMBER OF SPLICES.
- 633-3-15:**
SHALL INCLUDE FACTORY TERMINATED PIG-TAILS WITH CONNECTORS INDICATED IN THESE PLANS AND ANY FUSION SPLICING, WITH ASSOCIATED SPLICE TRAYS, BETWEEN THE FACTORY INSTALLED PIGTAILS AND THE FIBER OPTIC CABLE BEING TERMINATED AT THE PATCH PANEL. SHALL ALSO INCLUDE ANY FIBER OPTIC PATCH CORDS REQUIRED TO PROVIDE THE CONNECTIONS INDICATED IN THE PLANS.
- 635-2-11 OR 635-2-12:**
A. USE POLYMER CONCRETE CONSTRUCTION PULL BOX WITH A POLYMER CONCRETE COVER FOR FIBER OPTIC COMMUNICATION. USE 24" X 36" PULL BOXES PLACED A MINIMUM OF 800' APART.
- B. PULL BOXES ARE TO BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, PULL BOXES SHALL BE PLACED A MINIMUM OF 7' FROM THE EDGE OF PAVEMENT.
- C. USE POLYMER CONCRETE CONSTRUCTION PULL BOXES WITH POLYMER CONCRETE COVERS.
- D. PULL BOX DIMENSIONS FOR POWER SHALL BE 17" X 30" X 12".
- 635-2-13:**
SHALL BE 30" X 60" RECTANGULAR BOX WITH A 2-PIECE LID.
- 639-2-1:**
PAYMENT MAY BE BASED ON WIRE, OR THE LINEAR FOOT OF A SINGLE CONDUCTOR.
- 641-2-12:**
UNLESS OTHERWISE NOTED IN THE PLANS, ALL SERVICE POLES SHALL BE 36' IN HEIGHT.
- 660-3-11:**
INCLUDES ALL MOUNTING HARDWARE, CABINET, DEVICE SERVER, CLICK DEVICES AND ANY ADDITIONAL ITEMS TO PROVIDE A FULLY OPERATIONAL SYSTEM FOR THE MVDS.
- 660-3-12:**
ALL MVDS DEVICES SHALL BE INSTALLED WHERE THERE ARE NO LANDSCAPING OBSTRUCTIONS. MVDS DEVICES SHALL BE WAVETRONIX EXPANSE UNITS. COORDINATE WITH VENDOR TO DETERMINE MODEL NUMBER AND REQUIREMENTS FOR COMPLETE INSTALLATION.
- 676-2-122:**
THIS PAY ITEM INCLUDES THE INSTALLATION OF TYPE 336S POLE MOUNT ITS CABINET TO HOUSE PATCH PANELS AND/OR CCTV EQUIPMENT. THE CABINET SHALL BE BUILT AND CONFIGURED AS PER SECTION 676-4 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION INCLUDING SHELVEING FOR THE CCTV AND ETHERNET EQUIPMENT, LIGHT, FAN, DUPLEX OUTLET AND SUN SHIELDS.
- 682-1-113:**
CCTV CAMERA HARDWARE AND SOFTWARE SHALL BE COMPATIBLE WITH MANATEE COUNTY'S EXISTING CCTV CAMERA SYSTEM. CONTACT MAINTAINING AGENCY PRIOR TO ORDERING CCTV CAMERA TO CONFIRM COMPATIBILITY.
- THE CCTV CAMERA UNIT SHALL BE BOSCH ITS 7000 STARLITE SERIES 1080P 30X40.
- 684-1-1:**
MANAGED FIELD ETHERNET SWITCH (MFES) HARDWARE AND SOFTWARE SHALL BE COMPATIBLE WITH MANATEE COUNTY'S EXISTING CENTRAL CONTROL SOFTWARE. CONTACT MAINTAINING AGENCY PRIOR TO ORDERING MFES TO CONFIRM COMPATIBILITY.
- THE ETHERNET SWITCH SHALL BE A RUGGEDCOM SWITCH MODEL NUMBER RSG920P, PART NUMBER 6GK6092-0PS23-0BA0-ZA05+B05+C02+D02.

685-1-12:

SHALL INCLUDE AN UNINTERRUPTED POWER SUPPLY UNIT (UPS) MODEL NO. ALPHA FXM 1100 EQUIPPED WITH AN ETHERNET PORT. ALL UNINTERRUPTIBLE POWER SUPPLIES SHALL SUPPORT SNMP (PROTOCOL) FOR REMOTE MONITORING AND MANAGEMENT. THE UPS SHALL BE SIZED TO ACCOMMODATE THE MAXIMUM CONNECTED LOAD. THE BATTERY BANK SHALL BE SIZED TO PROVIDE A MINIMUM OF 8 HOURS RUN TIME UNDER FULL LOAD.

POLE DATA TABLE	ITS POLE #	3	3A	3B
	DEVICES	MVDS / CCTV	MVDS	MVDS
	POLES MOUNTED CABINET	336S	336S	336S
	PLAN SHEET	IT-6	IT-7	IT-8
	STATION	507+80 C̄ CONST. BUFFALO RD.	325+13 C̄ CONST. 69TH ST. E	301+00 C̄ CONST. 69TH ST. E
	OFFSET*	26' LT	32' LT	36' LT
	POLE LENGTH	36'-0"	36'-0"	36'-0"
	FOUNDATION DEPTH	10'	10'	10'

LEGEND

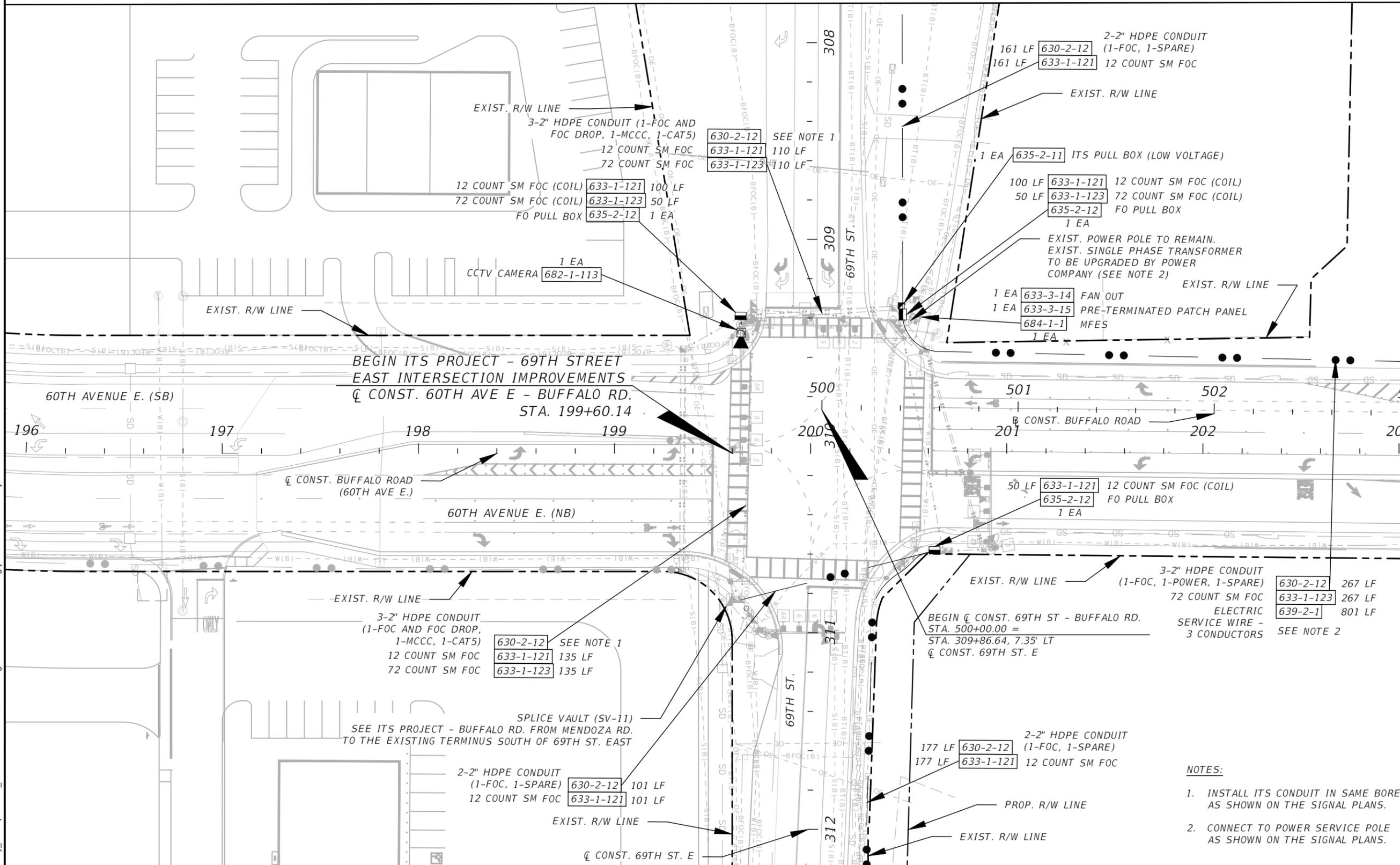
-  PROPOSED UNDERGROUND CONDUIT (OPEN TRENCH)
-  PROPOSED UNDERGROUND CONDUIT (DIRECTIONAL BORE)
-  PROPOSED PULL BOX
-  PROPOSED ELECTRICAL PULL BOX
-  PROPOSED SPLICE VAULT
-  PROPOSED TYPE PII - PEDESTAL
-  PROPOSED MVDS
-  PROPOSED MVDS DETECTION ZONE
-  PROPOSED CCTV
-  PROPOSED ITS CABINET (POLE MOUNTED)
-  PROPOSED TYPE PII - SERVICE POLE (36')

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NUMBER	DESCRIPTION	DATE	PROJECT #	15-0909JE	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	GENERAL NOTES (5)	SHEET NO.			
			SURVEY #	18-2238	DESIGNED	CT	1/12/23							
			SEC./TWN./RGE	4-345-18E	DRAWN	CT	1/12/23							
			SCALE	NTS	CHECKED	SS	1/12/23							

MATCHLINE STA. 307+80.00 -
 Q CONST. 69TH ST. E (IT-8)



MATCHLINE STA. 503+00.00 -
 Q CONST. BUFFALO RD (IT-6)

MATCHLINE STA. 312+20.00 - Q CONST. 69TH ST. E (IT-7)

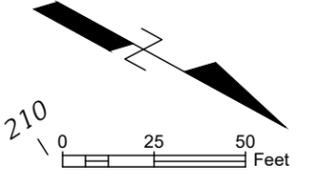
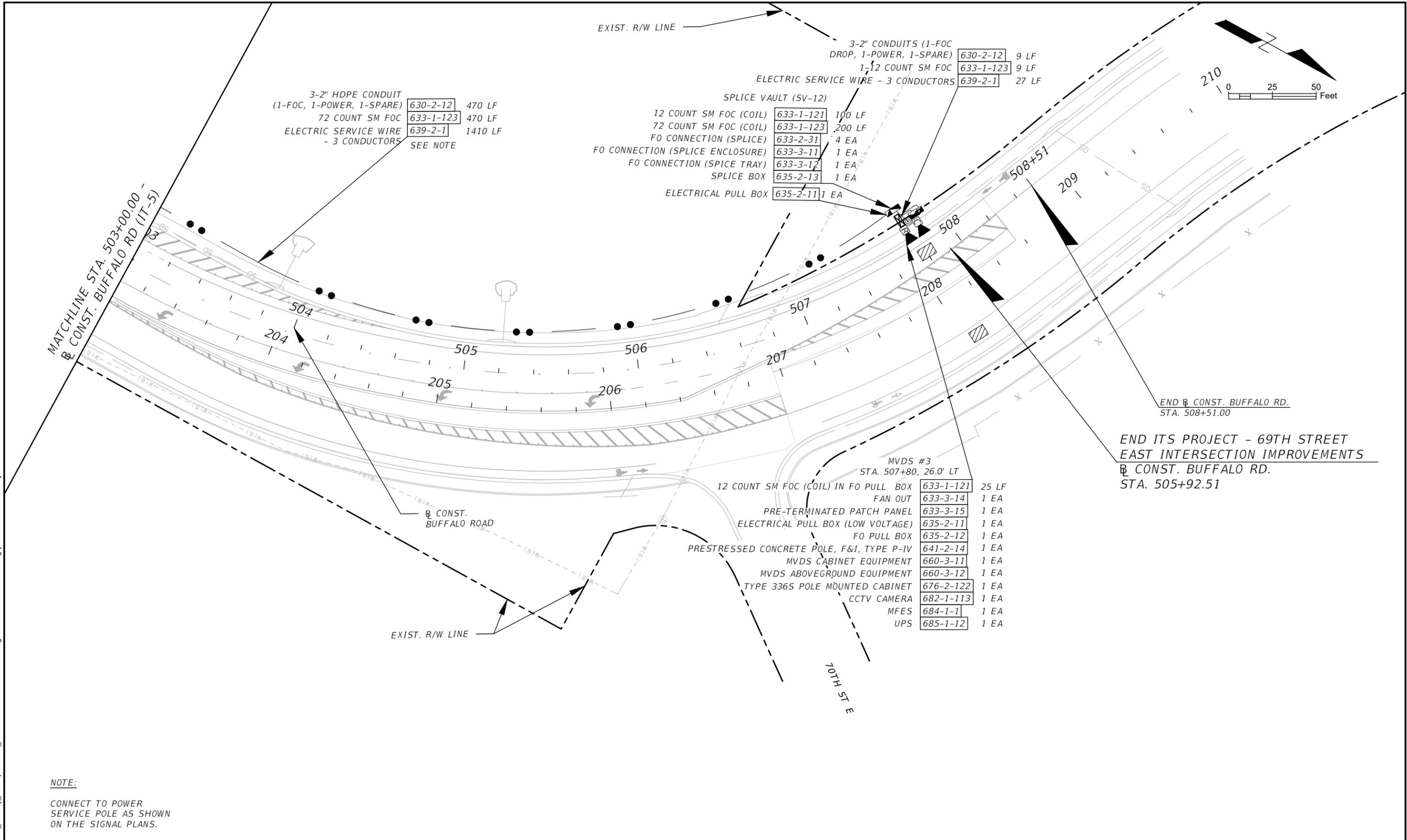
- NOTES:
- INSTALL ITS CONDUIT IN SAME BORE AS SHOWN ON THE SIGNAL PLANS.
 - CONNECT TO POWER SERVICE POLE AS SHOWN ON THE SIGNAL PLANS.

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NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	SHEET NO.		
			SURVEY #	18-2238	DESIGNED	CT	1/12/23				ITS PLAN (1)	
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23					IT-5
			SCALE	1" = 50'	CHECKED	SS	1/12/23					

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MATCHLINE STA. 503+00.00 -
CONST. BUFFALO RD (IT-5)

END CONST. BUFFALO RD.
STA. 508+51.00

END ITS PROJECT - 69TH STREET
EAST INTERSECTION IMPROVEMENTS
CONST. BUFFALO RD.
STA. 505+92.51

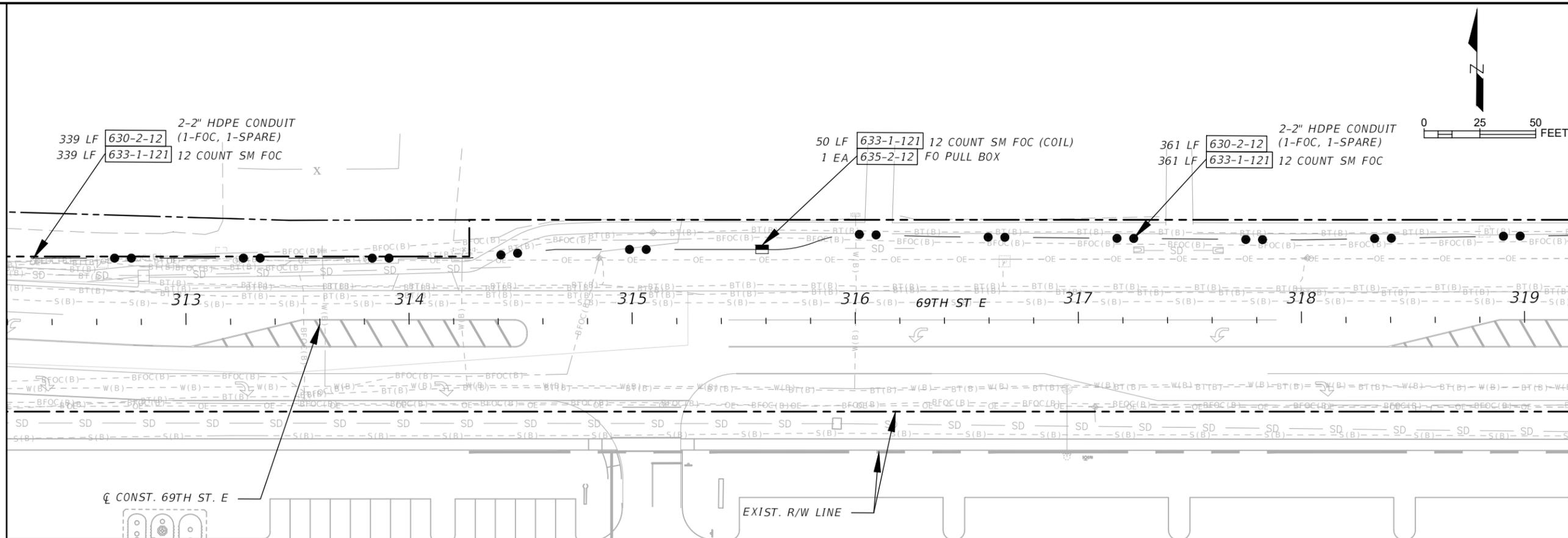
NOTE:
CONNECT TO POWER
SERVICE POLE AS SHOWN
ON THE SIGNAL PLANS.

NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	SHEET NO.	
			SURVEY #	18-2238	DESIGNED	CT	1/12/23			ITS PLAN (2)	
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23				
			SCALE	1" = 50'	CHECKED	SS	1/12/23				

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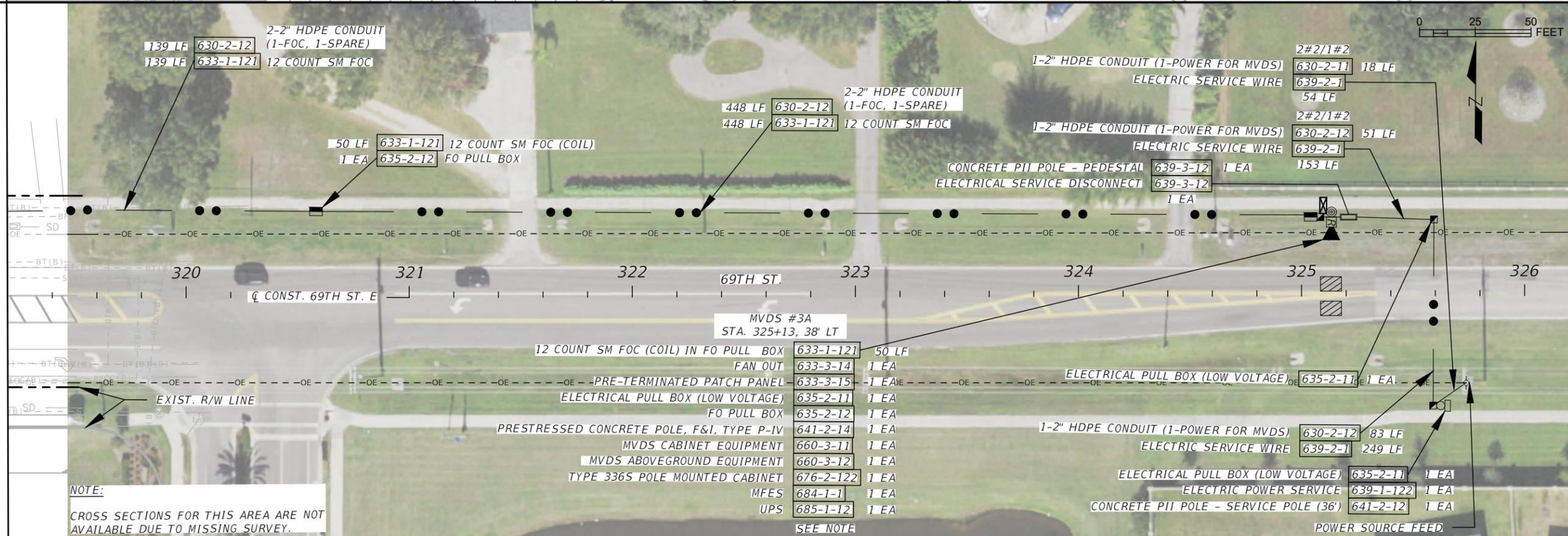
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MATCHLINE STA. 312+20.00 -
- ϕ CONST. 69TH ST. E (IT-5)



MATCHLINE STA. 319+20.00
- ϕ CONST. 69TH ST. E

MATCHLINE STA. 319+20.00
- ϕ CONST. 69TH ST. E



NOTE:
CROSS SECTIONS FOR THIS AREA ARE NOT AVAILABLE DUE TO MISSING SURVEY.

- MVDS #3A STA. 325+13, 38' LT
- 12 COUNT SM FOC (COIL) IN FO PULL BOX 633-1-121 50 LF
- FAN OUT 633-3-14 1 EA
- PRE-TERMINATED PATCH PANEL 633-3-15 1 EA
- ELECTRICAL PULL BOX (LOW VOLTAGE) 635-2-11 1 EA
- FO PULL BOX 635-2-12 1 EA
- PRESTRESSED CONCRETE POLE, F&I, TYPE P-IV 641-2-14 1 EA
- MVDS CABINET EQUIPMENT 660-3-11 1 EA
- MVDS ABOVEGROUND EQUIPMENT 660-3-12 1 EA
- TYPE 336S POLE MOUNTED CABINET 676-2-122 1 EA
- MFES 684-1-1 1 EA
- UPS 685-1-12 1 EA
- SEE NOTE

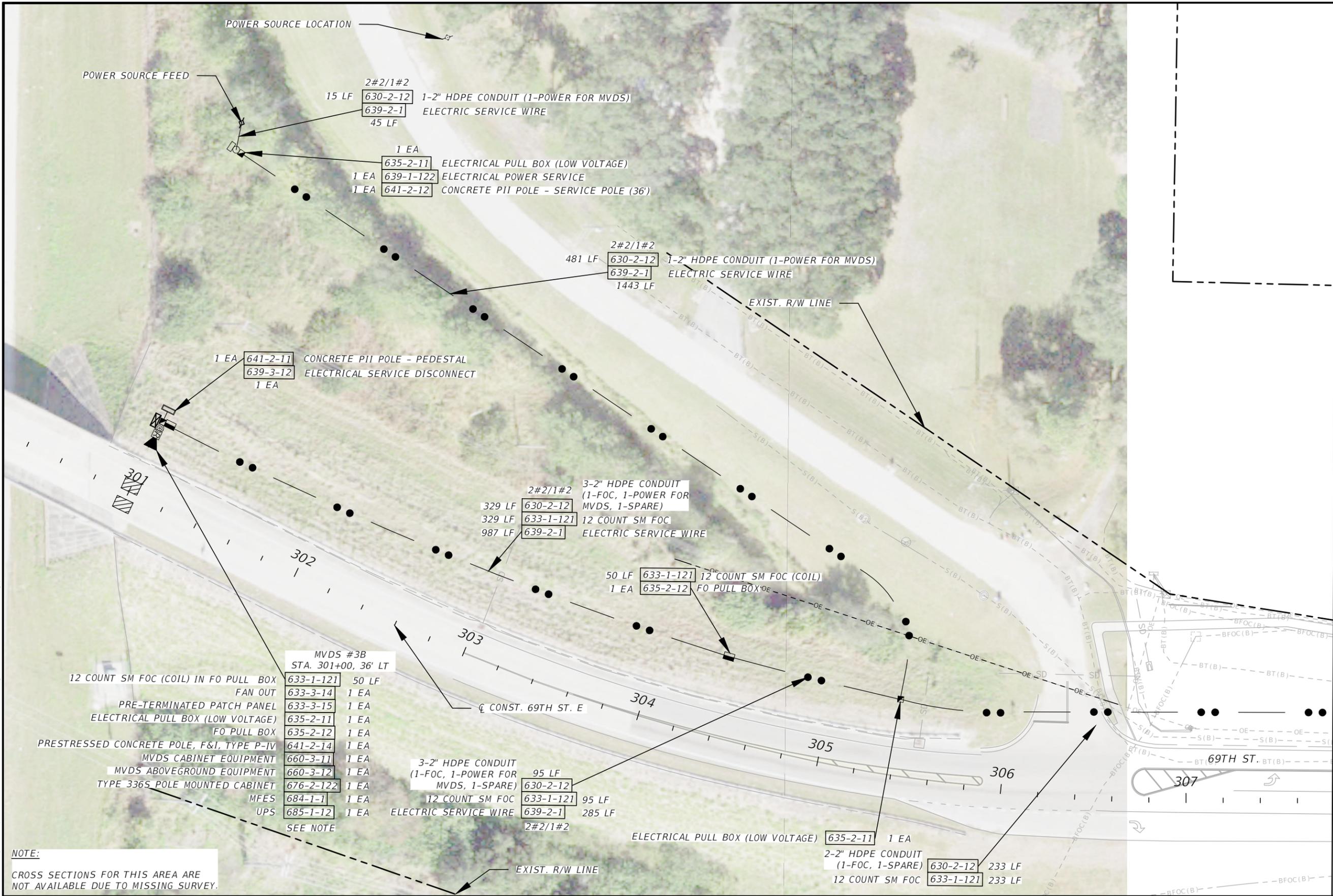
NUMBER	DESCRIPTION	DATE	PROJECT #	SURVEYED	HYATT	5/2021
			6083160			
			18-2238	DESIGNED	CT	1/12/23
			4-345-18E	DRAWN	CT	1/12/23
			1" = 50'	CHECKED	SS	1/12/23

SCOTT SAMUELS, P.E.
LICENSE NUMBER 88738
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET
SUITE 400
TAMPA, FL 33602

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

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MATCHLINE STA. 307+80.00 -
 & CONST. 69TH ST. E (IT-5)

NOTE:
 CROSS SECTIONS FOR THIS AREA ARE NOT AVAILABLE DUE TO MISSING SURVEY.

- MVDS #3B
 STA. 301+00, 36' LT
- 12 COUNT SM FOC (COIL) IN FO PULL BOX 633-1-121 50 LF
 - FAN OUT 633-3-14 1 EA
 - PRE-TERMINATED PATCH PANEL 633-3-15 1 EA
 - ELECTRICAL PULL BOX (LOW VOLTAGE) 635-2-11 1 EA
 - FO PULL BOX 635-2-12 1 EA
 - PRESTRESSED CONCRETE POLE, F&I, TYPE P-IV 641-2-14 1 EA
 - MVDS CABINET EQUIPMENT 660-3-11 1 EA
 - MVDS ABOVEGROUND EQUIPMENT 660-3-12 1 EA
 - TYPE 336S POLE MOUNTED CABINET 676-2-122 1 EA
 - MFES 684-1-1 1 EA
 - UPS 685-1-12 1 EA
- SEE NOTE

- 3-2" HDPE CONDUIT (1-FOC, 1-POWER FOR MVDS, 1-SPARE) 630-2-12 95 LF
- 12 COUNT SM FOC 633-1-121 95 LF
- ELECTRIC SERVICE WIRE 639-2-1 285 LF
- 2#2/1#2

NUMBER	DESCRIPTION	DATE	PROJECT #	SURVEYED	HYATT	5/2021
			6083160			
			18-2238	DESIGNED	CT	1/12/23
			4-34S-18E	DRAWN	CT	1/12/23
			1" = 50'	CHECKED	SS	1/12/23

SCOTT SAMUELS, P.E.
 LICENSE NUMBER 88738
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602



PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

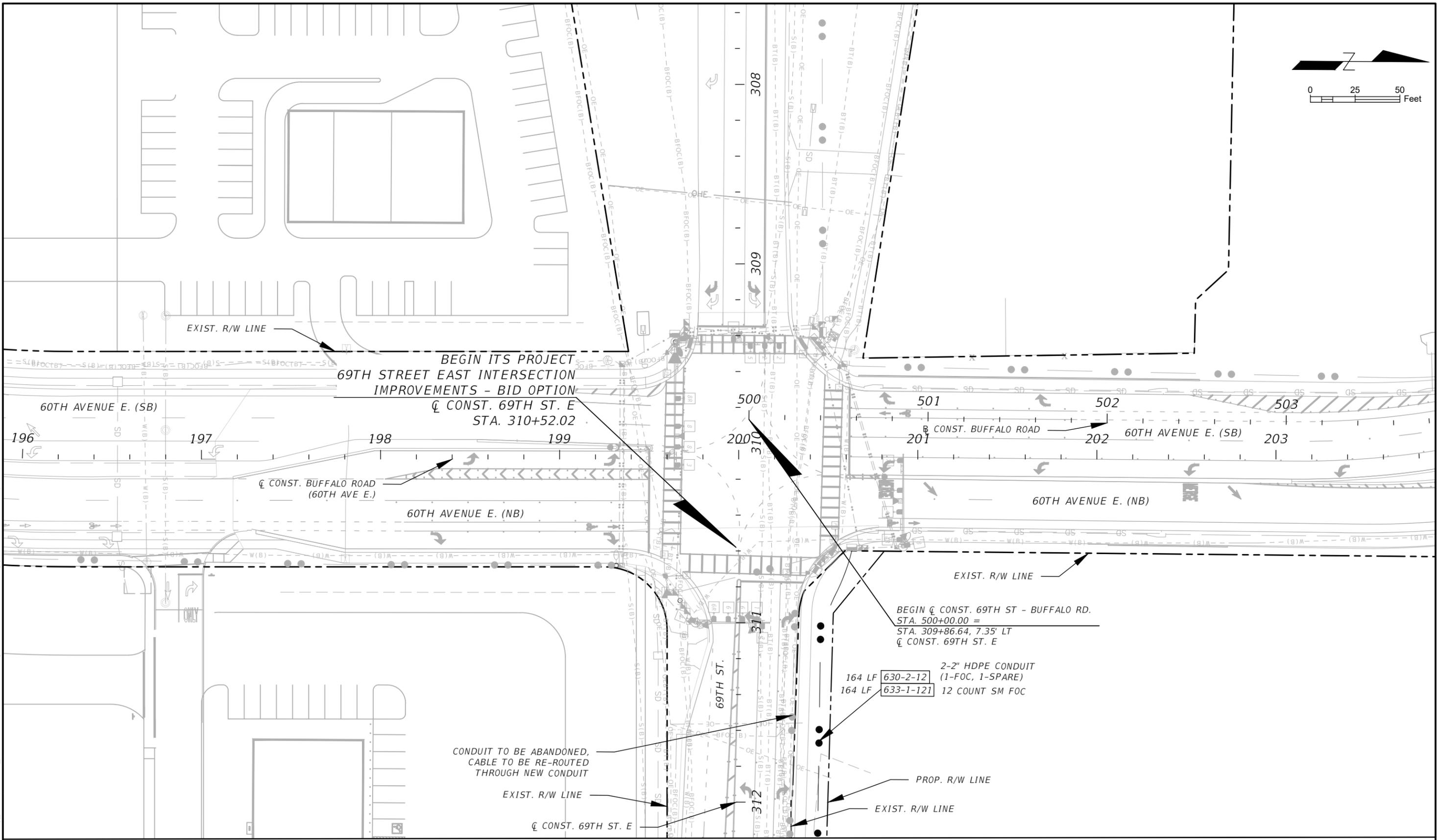
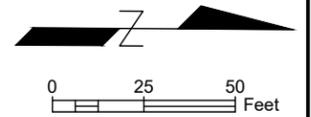
ITS PLAN (4)

SHEET NO.

IT-8

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

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BEGIN ITS PROJECT
69TH STREET EAST INTERSECTION
IMPROVEMENTS - BID OPTION
☉ CONST. 69TH ST. E
STA. 310+52.02

BEGIN ☉ CONST. 69TH ST - BUFFALO RD.
STA. 500+00.00 =
STA. 309+86.64, 7.35' LT
☉ CONST. 69TH ST. E

164 LF 630-2-12 2-2" HDPE CONDUIT (1-FOC, 1-SPARE)
164 LF 633-1-121 12 COUNT SM FOC

CONDUIT TO BE ABANDONED,
CABLE TO BE RE-ROUTED
THROUGH NEW CONDUIT

MATCHLINE STA. 312+20.00 - ☉ CONST. 69TH ST. E (IT-10)

NUMBER	DESCRIPTION	DATE	PROJECT #	SURVEYED	HYATT	5/2021
			6083160			
			18-2238	DESIGNED	CT	1/12/23
			4-345-18E	DRAWN	CT	1/12/23
			SCALE 1" = 50'	CHECKED	SS	1/12/23

SCOTT SAMUELS, P.E.
LICENSE NUMBER 88738
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET
SUITE 400
TAMPA, FL 33602

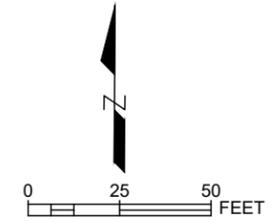


PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ITS PLAN (1) - BID OPTION

SHEET NO.
IT-9

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

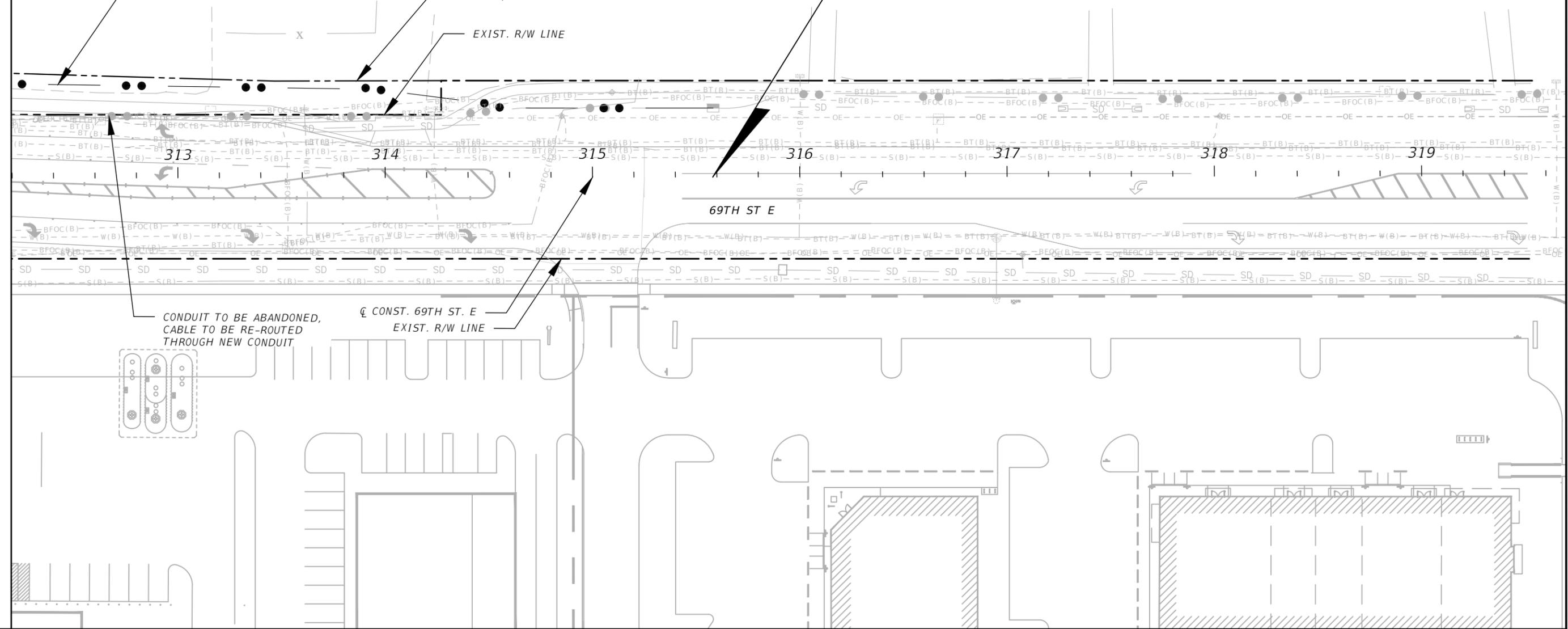


END ITS PROJECT
 69TH STREET EAST INTERSECTION
 IMPROVEMENTS - BID OPTION
 C CONST. 69TH ST. E
 STA. 315+58.02

339 LF 630-2-12 2-2" HDPE CONDUIT (1-FOC 1-SPARE)
 339 LF 633-1-121 12 COUNT SM FOC

PROP. R/W LINE
 EXIST. R/W LINE

MATCHLINE STA. 312+20.00 -
 C CONST. 69TH ST. E (IT-8)



CONDUIT TO BE ABANDONED,
 CABLE TO BE RE-ROUTED
 THROUGH NEW CONDUIT

C CONST. 69TH ST. E
 EXIST. R/W LINE

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NUMBER	DESCRIPTION	DATE	PROJECT #	SURVEYED	HYATT	5/2021
			6083160			
			18-2238	DESIGNED	CT	1/12/23
			4-34S-18E	DRAWN	CT	1/12/23
			1" = 50'	CHECKED	SS	1/12/23

SCOTT SAMUELS, P.E.
 LICENSE NUMBER 88738
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602

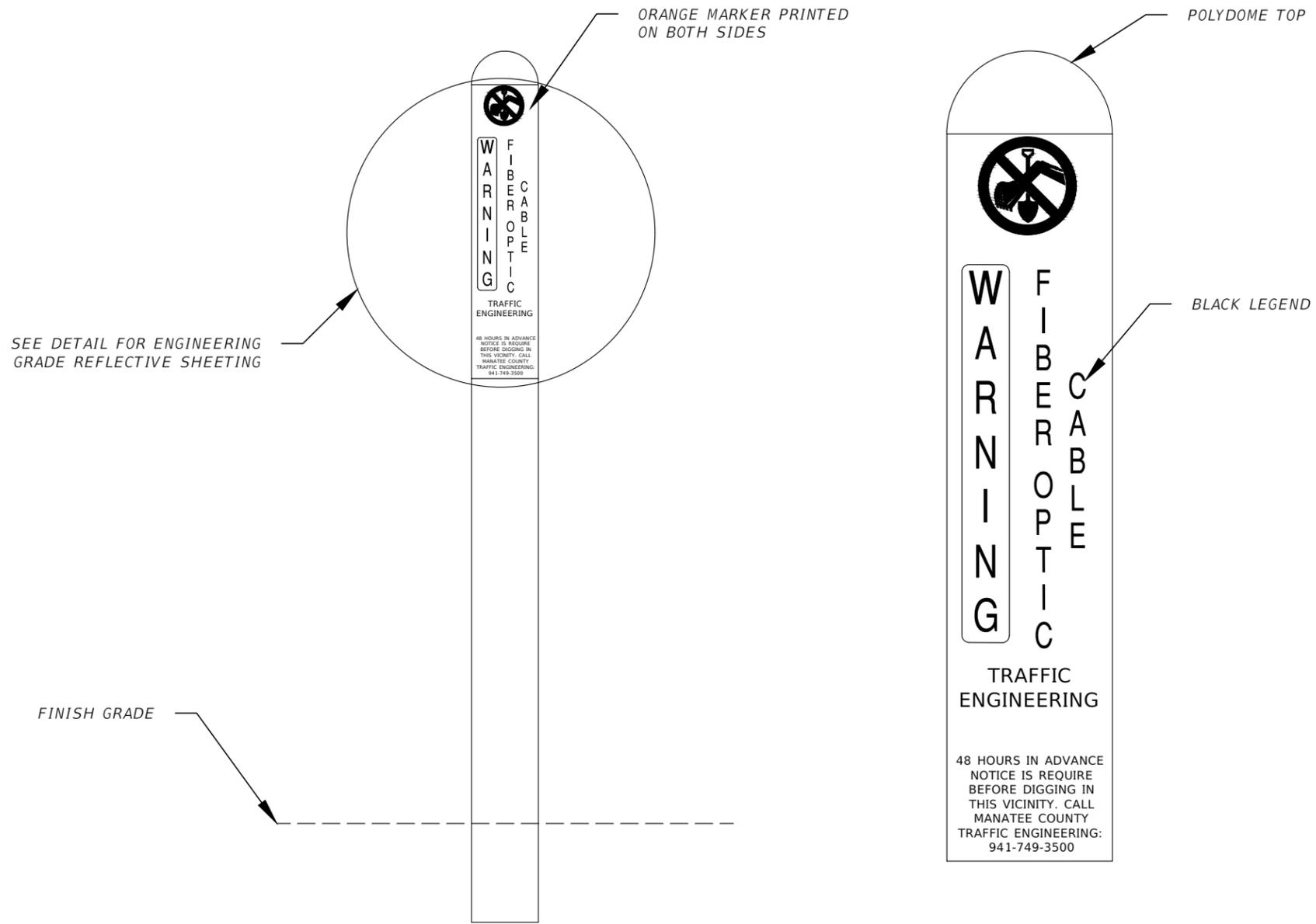


PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ITS PLAN (2) - BID OPTION

SHEET NO.
 IT-10

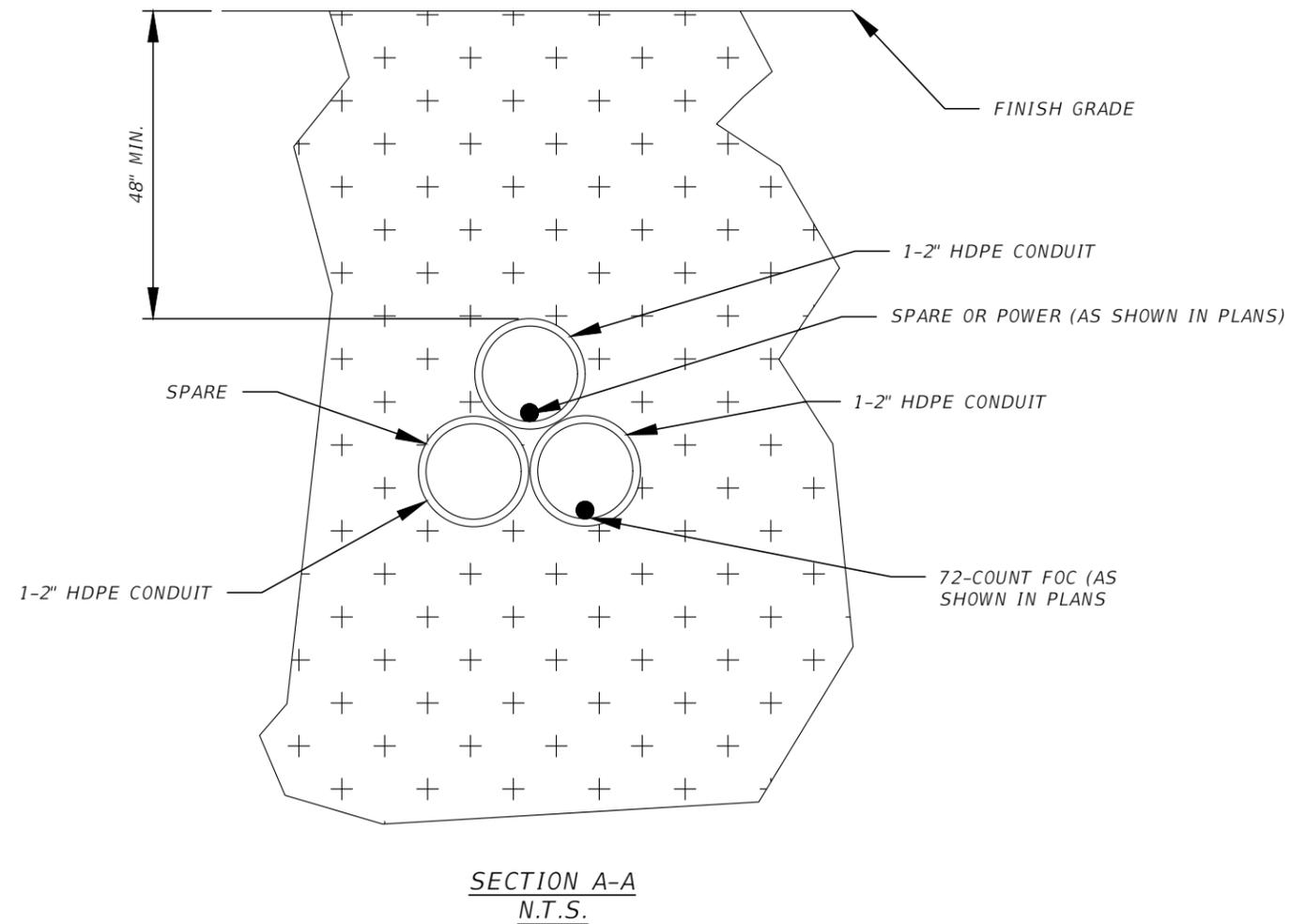
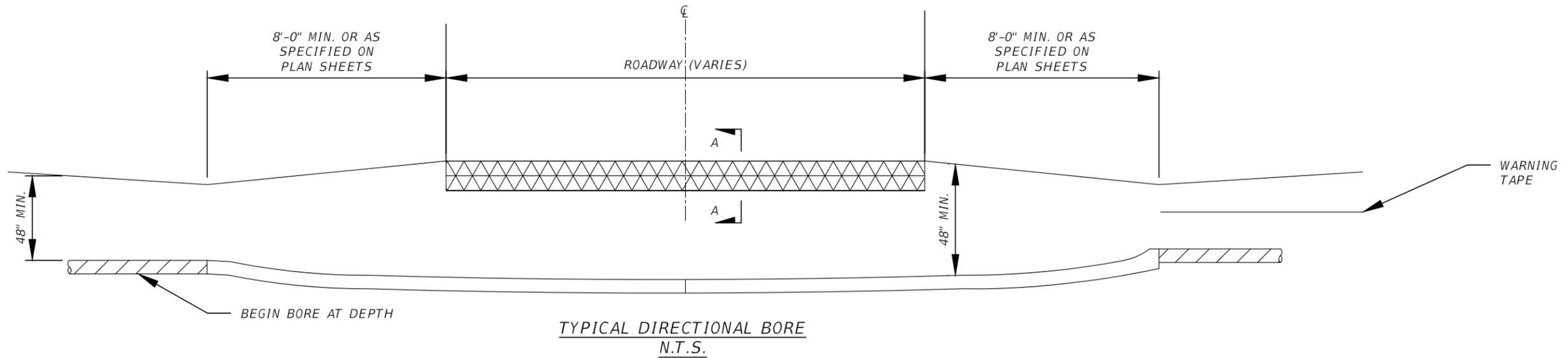
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FIBER OPTIC CABLE ROUTE MARKER
N.T.S.

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NUMBER	DESCRIPTION	DATE	PROJECT #	15-09091E	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	SHEET NO.
			SURVEY #	18-2238	DESIGNED	CT	1/12/23			
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23			IT-11
			SCALE	NTS	CHECKED	SS	1/12/23			



NOTE:

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. LOCATE WIRE MAY BE REPLACED WITHIN ADDITIONAL 1" HDPE CONDUIT INSTALLED FOR THIS PURPOSE AT THE CONTRACTORS OPTION. OTHERWISE, INSTALL PER FDOT SPECIFICATIONS SECTION 630.

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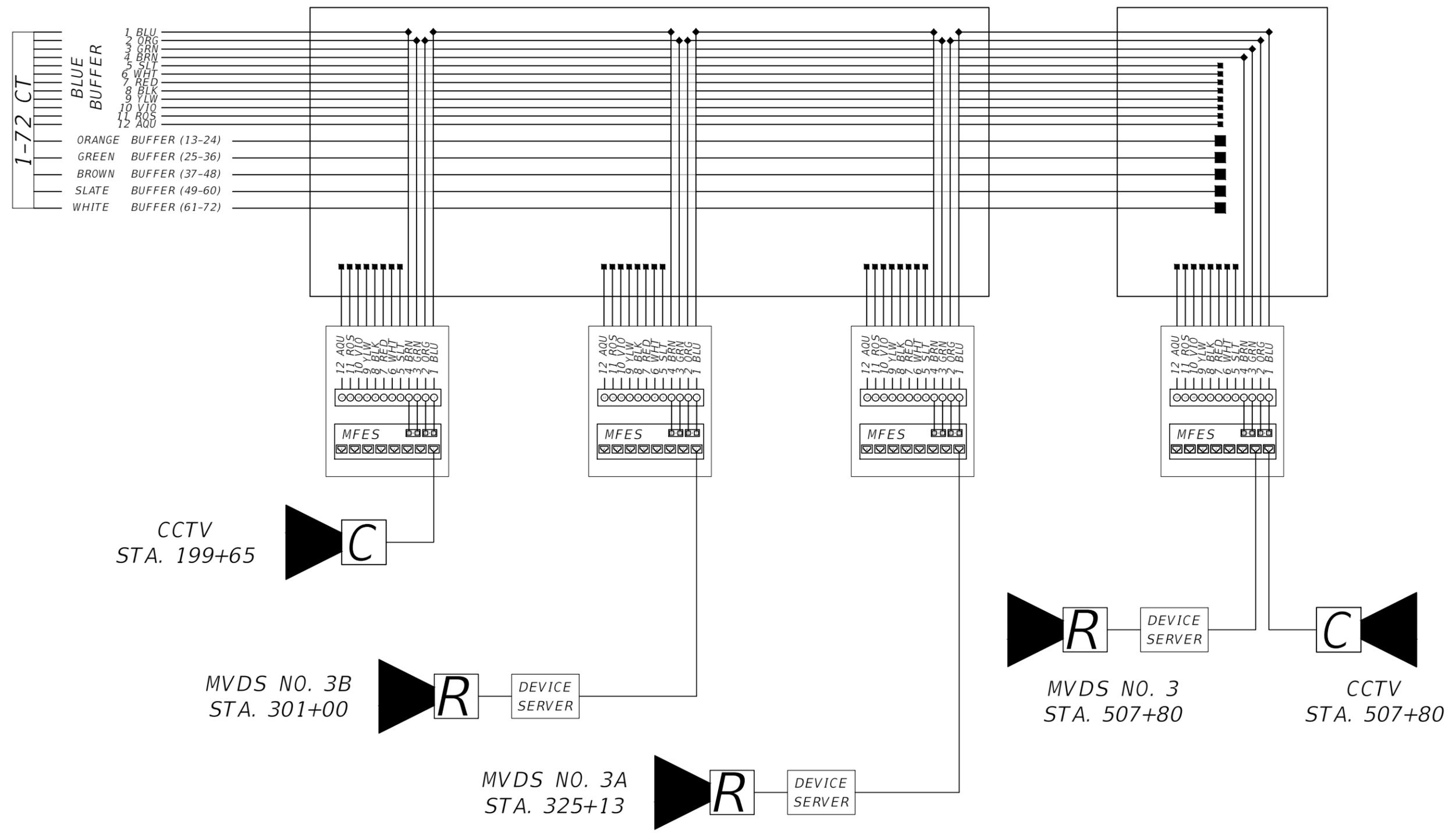
NUMBER	DESCRIPTION	DATE	PROJECT #	15-0909JE	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DIRECTIONAL BORE AND CONDUIT DETAILS		SHEET NO.	
			SURVEY #	18-2238	DESIGNED	CT	1/12/23						
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23						
			SCALE	NTS	CHECKED	SS	1/12/23						



PROPOSED SPLICE VAULT (SV-11)
SEE SEGMENT 2 ITS PLANS.
STA. 199+18, 80' RT

PROPOSED SPLICE VAULT (SV-12).
STA. 507+78, 36' LT

PROPOSED 72
COUNT SM
BACKBONE - SEE
SEG 2 PLANS

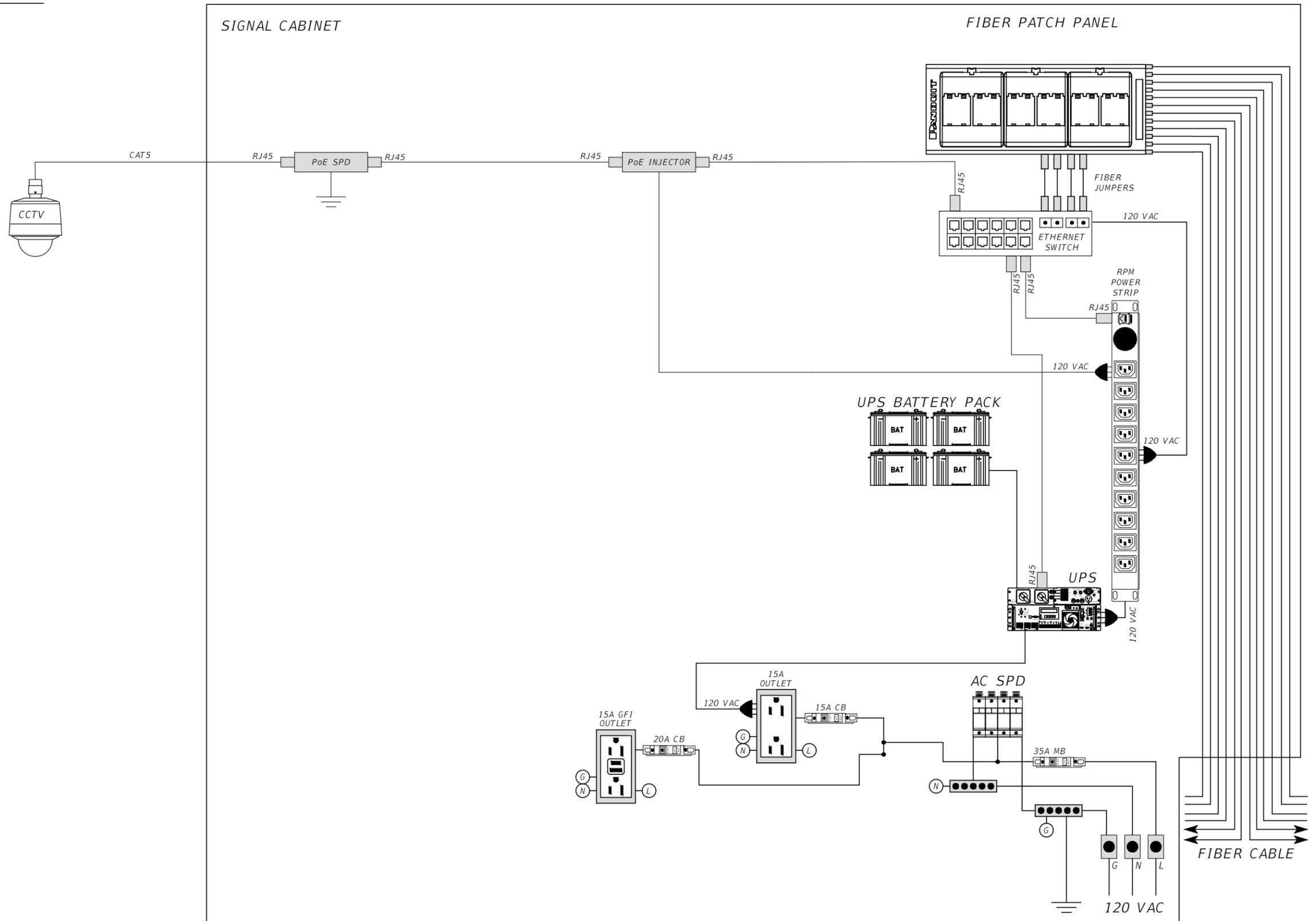


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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NUMBER	DESCRIPTION	DATE	PROJECT #	15-0909JE	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 Manatee County FLORIDA PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	SPLICING DIAGRAM	SHEET NO.			
			SURVEY #	18-2238	DESIGNED	CT	1/12/23							
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23							
			SCALE	NTS	CHECKED	SS	1/12/23							

1-CCTV CONNECTION DIAGRAM

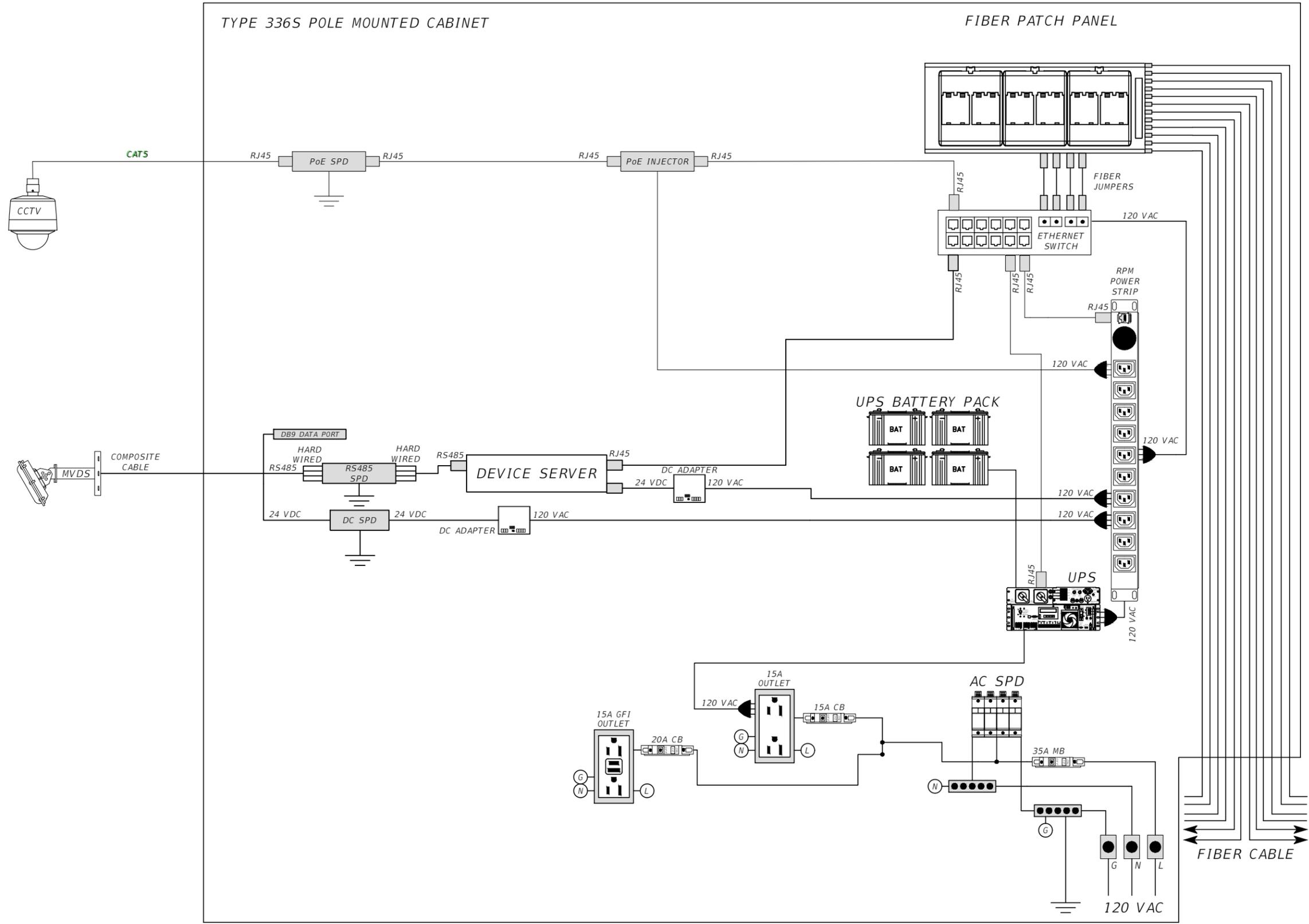


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NUMBER	DESCRIPTION	DATE	PROJECT #	15-0909JE	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	WIRING DIAGRAM (1)	SHEET NO.	
			SURVEY #	18-2238	DESIGNED	CT	1/12/23					
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23					
			SCALE	NTS	CHECKED	SS	1/12/23					IT-14

1-CCTV, 1-MVDS COLOCATED CONNECTION DIAGRAM

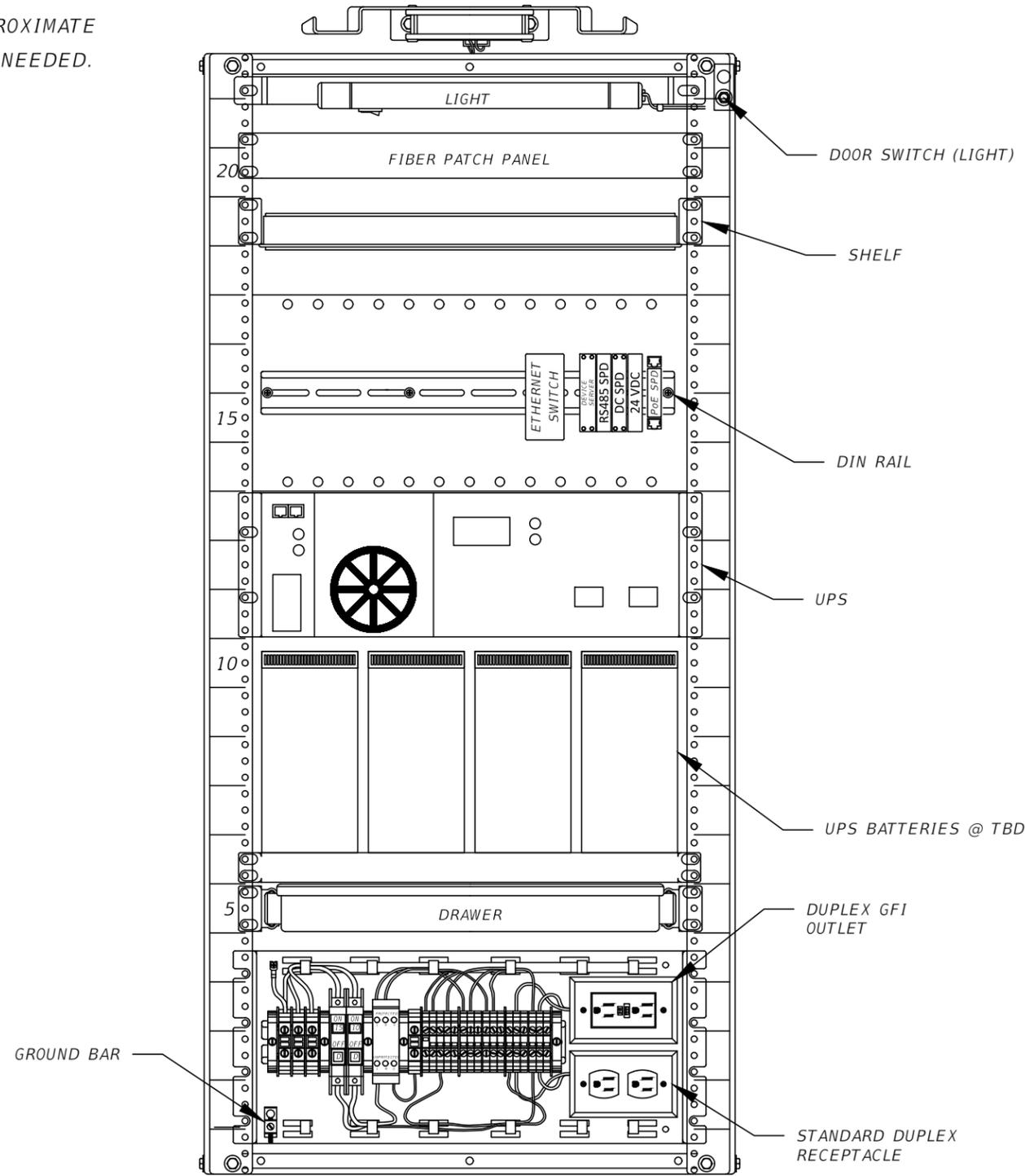


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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NUMBER	DESCRIPTION	DATE	PROJECT #	15-0909JE	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	Manatee County FLORIDA	PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	WIRING DIAGRAM (2)	SHEET NO.
			SURVEY #	18-2238	DESIGNED	CT	1/12/23					IT-15
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23					
			SCALE	NTS	CHECKED	SS	1/12/23					

NOTE: CABINET EQUIPMENT LOCATIONS AND PLACEMENT ARE APPROXIMATE AND CAN BE ADJUSTED BY MANUFACTURERS OR CONTRACTORS AS NEEDED.



FRONT VIEW
(NO DOORS SHOWN)
336S CABINET - POLE MOUNTED
1-MVDS (REMOTE)

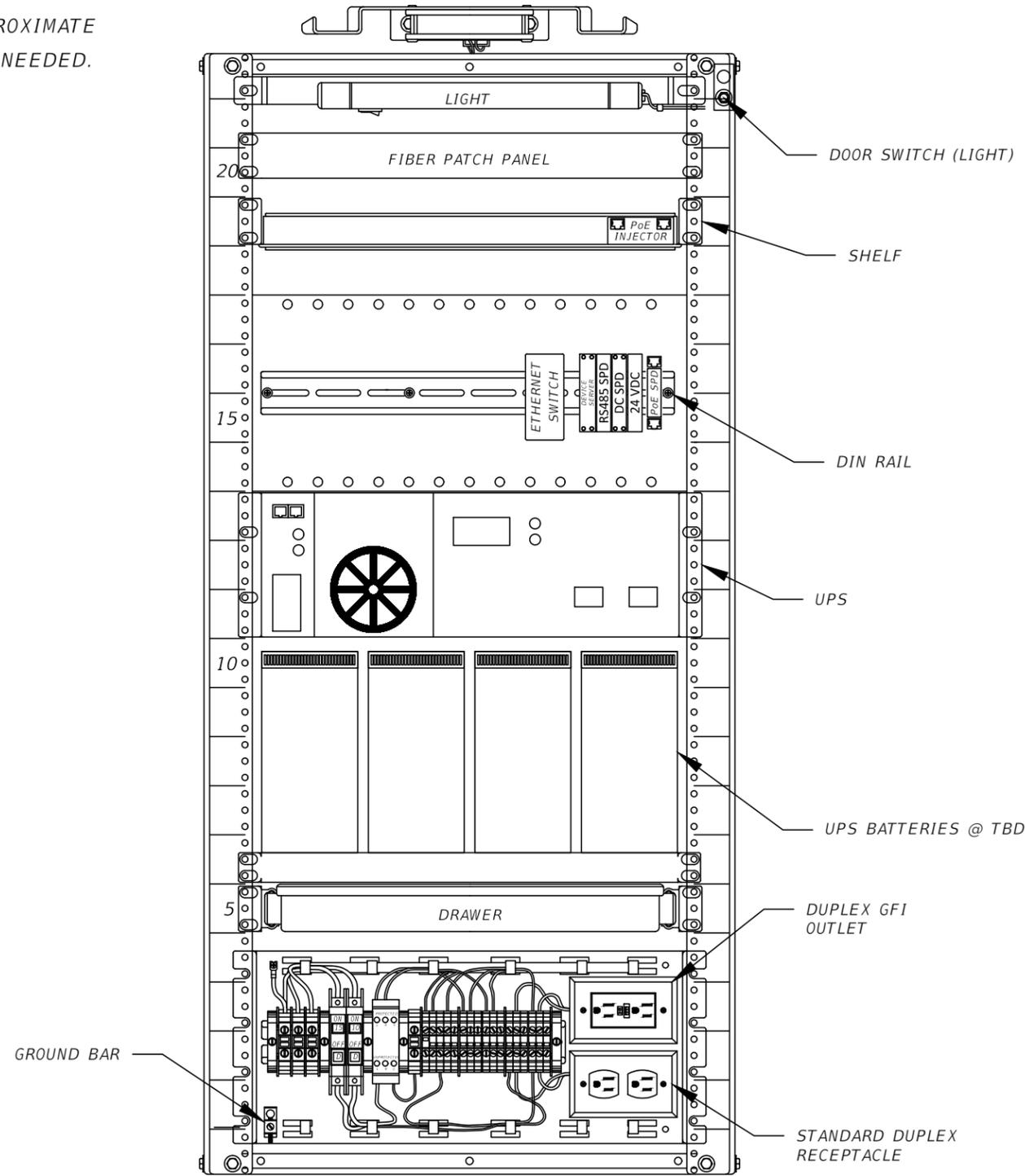
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NUMBER	DESCRIPTION	DATE	PROJECT #	15-0909JE	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	336S CABINET DETAIL (1)	SHEET NO.
			SURVEY #	18-2238	DESIGNED	CT	1/12/23				
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23				
			SCALE	NTS	CHECKED	SS	1/12/23				

IT-17

NOTE: CABINET EQUIPMENT LOCATIONS AND PLACEMENT ARE APPROXIMATE AND CAN BE ADJUSTED BY MANUFACTURERS OR CONTRACTORS AS NEEDED.



FRONT VIEW
(NO DOORS SHOWN)
336S CABINET - POLE MOUNTED
1-CCTV, 1-MVDS (COLOCATED)

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NUMBER	DESCRIPTION	DATE	PROJECT #	15-0909JE	SURVEYED	HYATT	5/2021
			SURVEY #	18-2238	DESIGNED	CT	1/12/23
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23
			SCALE	NTS	CHECKED	SS	1/12/23

SCOTT SAMUELS, P.E.
LICENSE NUMBER 88738
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET
SUITE 400
TAMPA, FL 33602



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

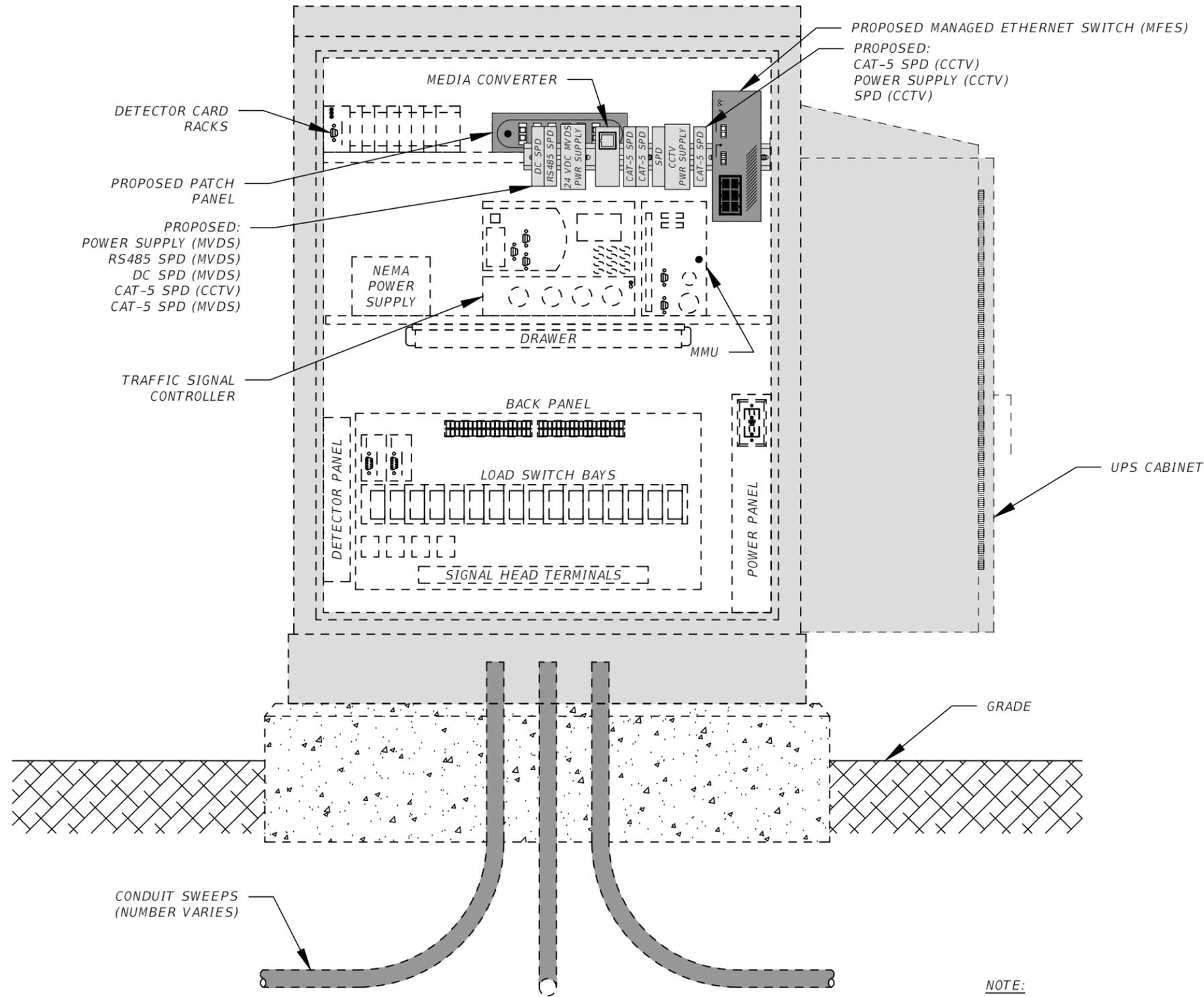
336S CABINET DETAIL (2)

SHEET NO.

IT-18

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

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69TH STREET & BUFFALO ROAD (60TH AVE.)
TRAFFIC SIGNAL CABINET
 (SIGNAL CABINET TO BE INSTALLED AS PART OF THE SIGNALIZATION PLANS)

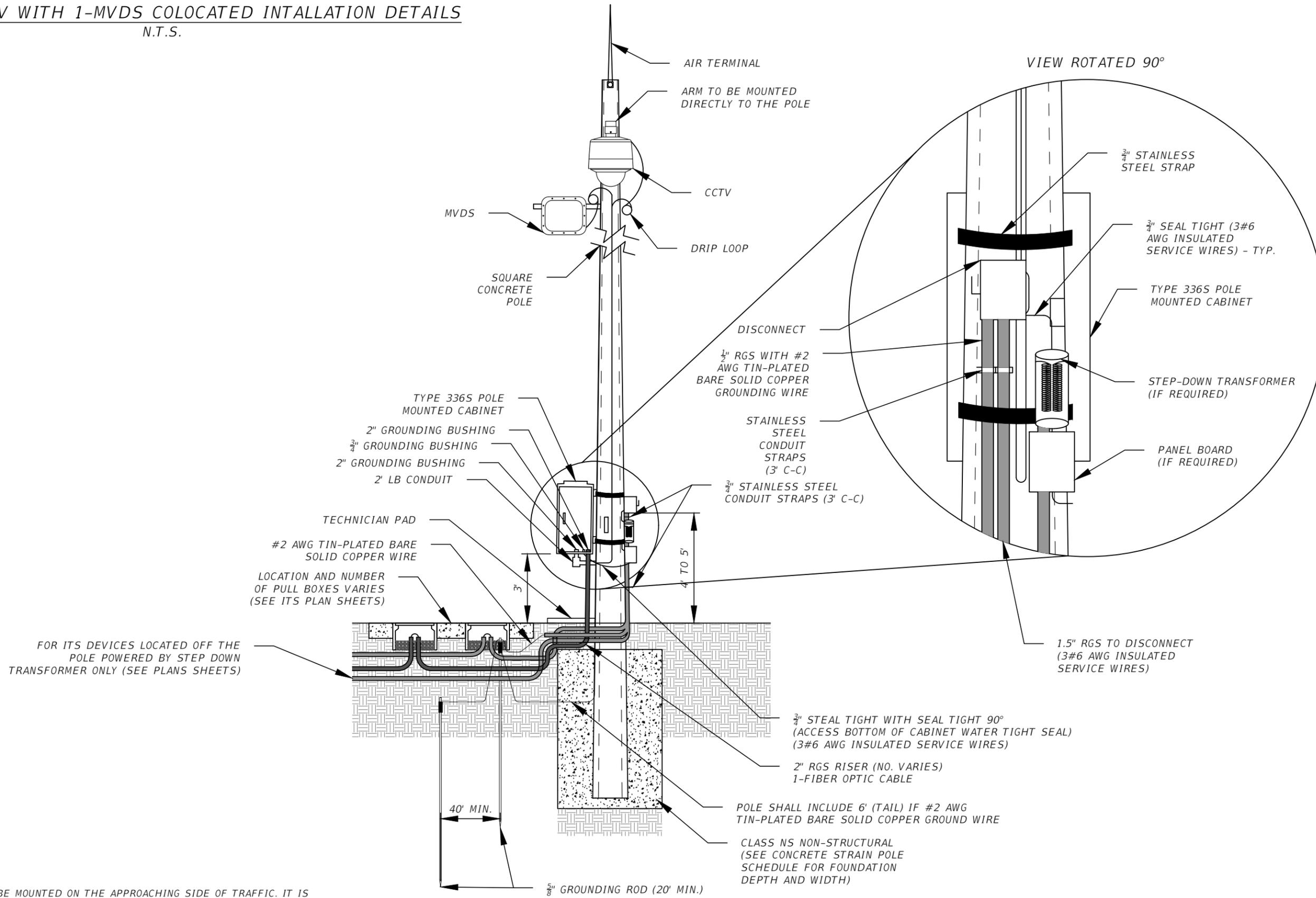
NOTE:
 TRAFFIC SIGNAL CABINETS ARE TO BE INSTALLED AS PART OF SIGNALIZATION PLANS AND ARE SHOWN FOR REFERENCE ONLY. INCLUDED EQUIPMENT AND CONFIGURATION MAY VARY.

NUMBER	DESCRIPTION	DATE	PROJECT #	15-0909JE	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	SHEET NO.	
			SURVEY #	18-2238	DESIGNED	CT	1/12/23			<i>SIGNAL CABINET DETAIL (5)</i>	IT-19
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23				
			SCALE	NTS	CHECKED	SS	1/12/23				

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

TYPICAL 1-CCTV WITH 1-MVDS COLOCATED INTALLATION DETAILS

N.T.S.



NOTE:

THE CABINET SHALL NEVER BE MOUNTED ON THE APPROACHING SIDE OF TRAFFIC. IT IS THE INTENT OF THE ENGINEER TO PROVIDE A SAFE WORKING SPACE FOR TECHNICIANS.

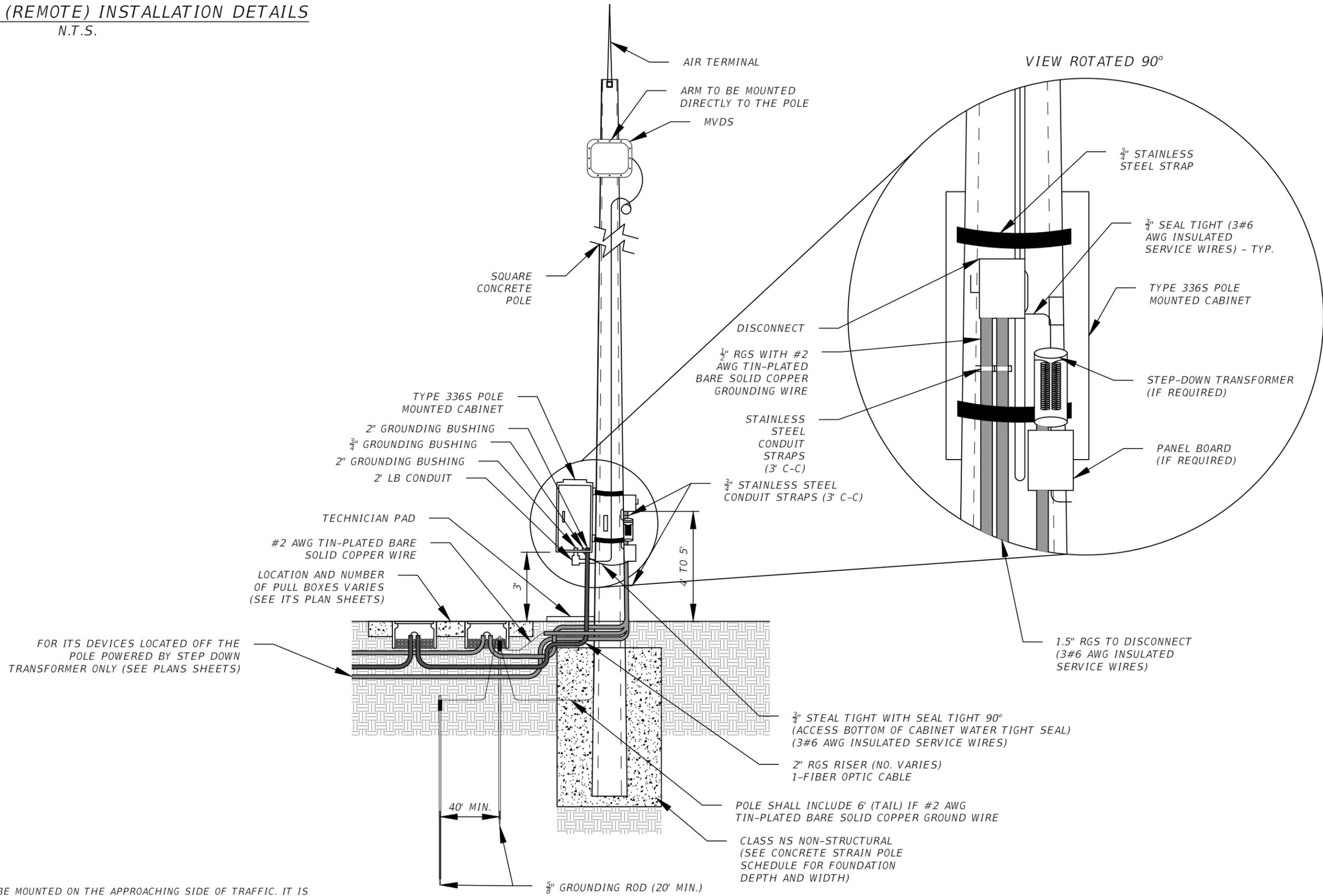
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NUMBER	DESCRIPTION	DATE	PROJECT #	15-09091E	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	ITS MOUNTING DETAIL (1)		SHEET NO.	
			SURVEY #	18-2238	DESIGNED	CT	1/12/23						
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23						
			SCALE	NTS	CHECKED	SS	1/12/23						

IT-20

TYPICAL 1-MVDS (REMOTE) INSTALLATION DETAILS
N.T.S.



NOTE:

THE CABINET SHALL NEVER BE MOUNTED ON THE APPROACHING SIDE OF TRAFFIC. IT IS THE INTENT OF THE ENGINEER TO PROVIDE A SAFE WORKING SPACE FOR TECHNICIANS.

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NUMBER	DESCRIPTION	DATE	PROJECT #	15-09091E	SURVEYED	HYATT	5/2021
			SURVEY #	18-2238	DESIGNED	CT	1/12/23
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23
			SCALE	NTS	CHECKED	SS	1/12/23

SCOTT SAMUELS, P.E.
LICENSE NUMBER 88738
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET
SUITE 400
TAMPA, FL 33602



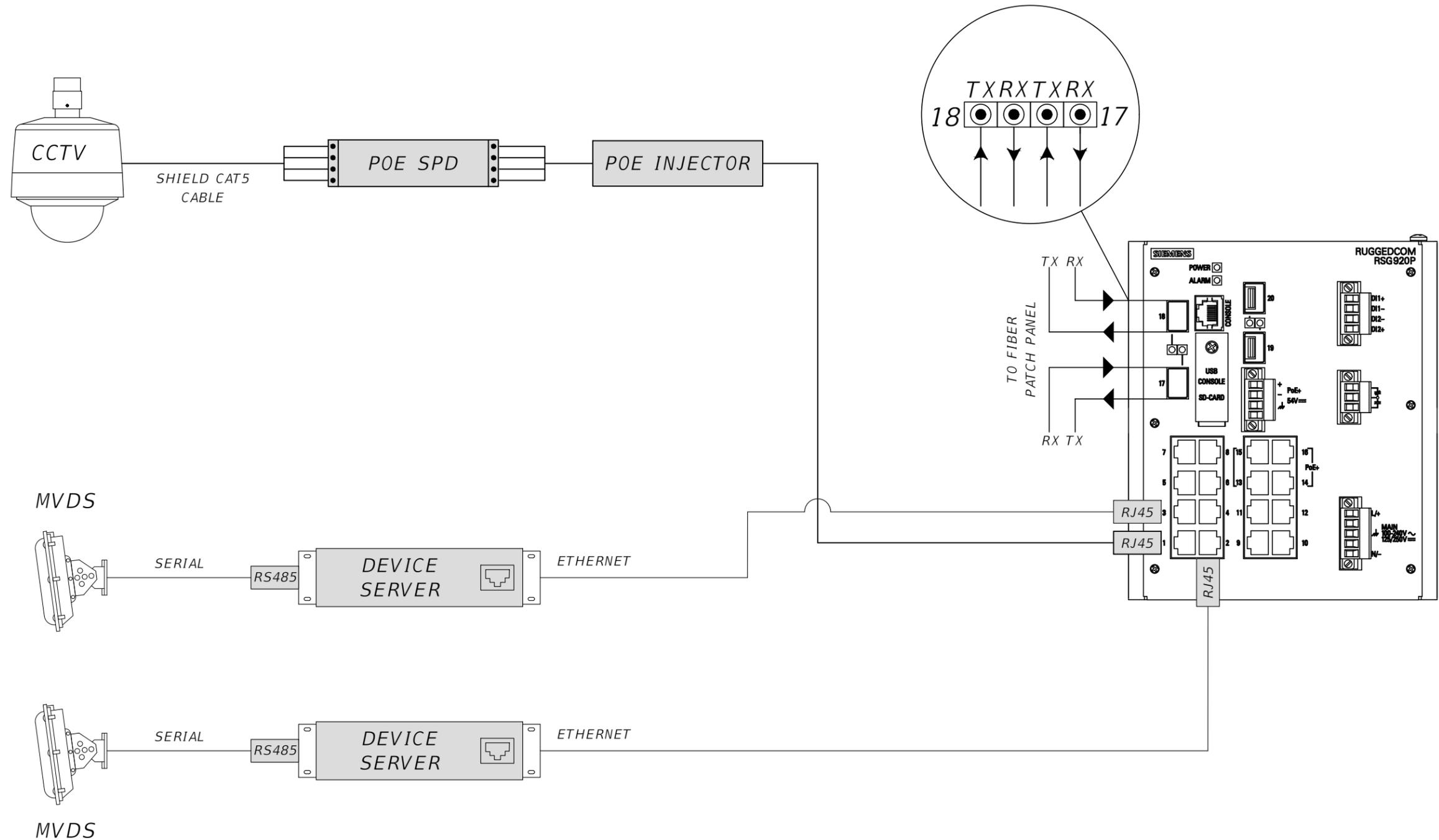
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ITS MOUNTING DETAIL (2)

SHEET NO.

IT-21

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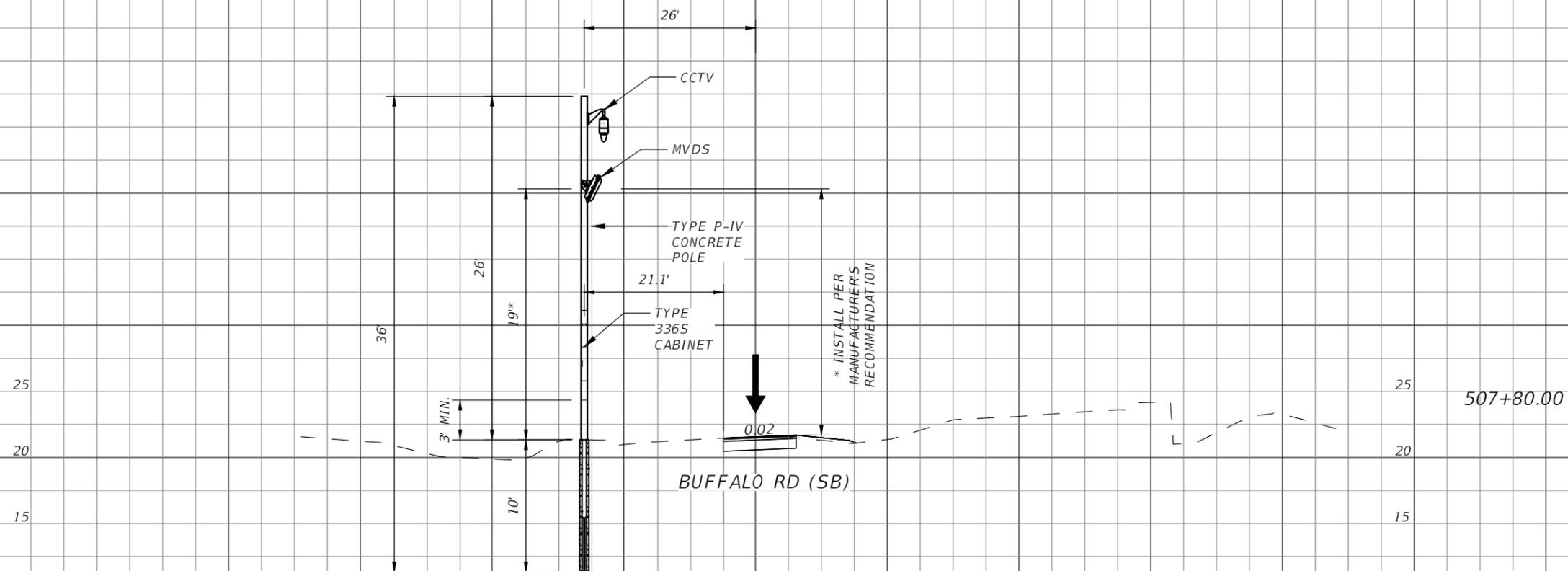


N.T.S.

NUMBER	DESCRIPTION	DATE	PROJECT #	15-09091E	SURVEYED	HYATT	5/2021	SCOTT SAMUELS, P.E. LICENSE NUMBER 88738 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	Manatee County FLORIDA	PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	MANAGED FIELD ETHERNET SWITCH PORT ASSIGNMENT DETAIL	SHEET NO.
			SURVEY #	18-2238	DESIGNED	CT	1/12/23					IT-22
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	1/12/23					
			SCALE	NTS	CHECKED	SS	1/12/23					

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MVDS #3
 STA. 507+80.00
 @ CONST. BUFFALO ROAD
 SCALE: 1" = 20' HORIZ.
 1" = 10' VERT.

100 80 60 40 20 0 20 40 60 80 100

⊕ CONST. BUFFALO ROAD

NUMBER	DESCRIPTION	DATE
PROJECT #	15-0909JE	SURVEYED
SURVEY #	18-2238	DESIGNED
SEC./TWN./RGE	4-34S-18E	DRAWN
SCALE	NTS	CHECKED

SCOTT SAMUELS, P.E.
 LICENSE NUMBER 88738
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602



PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ITS CROSS SECTION

SHEET NO.
IT-23

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