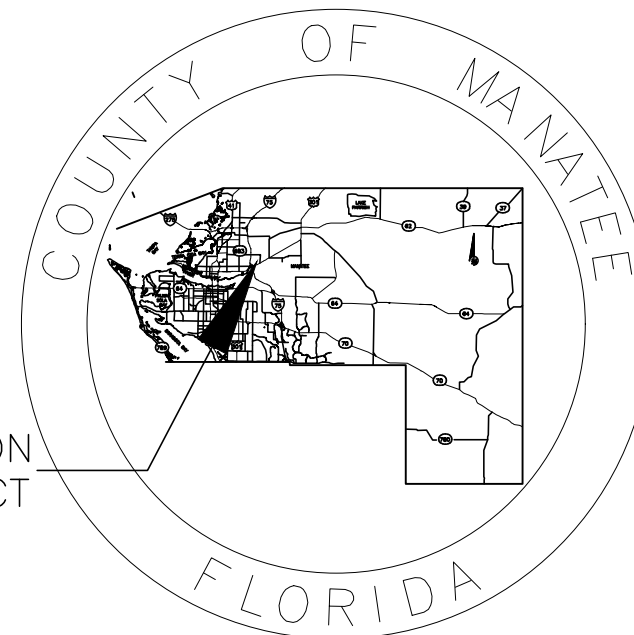


STATE OF FLORIDA COUNTY OF MANATEE

PROPOSED INTELLIGENT TRANSPORTATION SYSTEMS (ITS) PLANS FOR 60TH AVE. EAST FROM US 301 TO MENDOZA RD MANATEE COUNTY ELLENTON, FLORIDA MANATEE COUNTY PROJECT No: 6083160

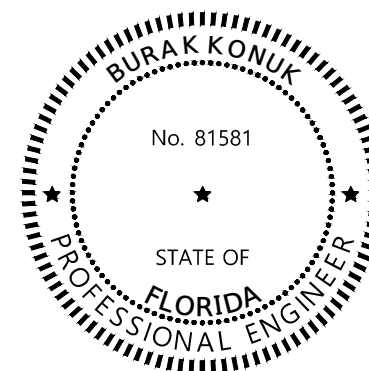


LOCATION
OF PROJECT

**90% PLANS
JUNE 2022**

INDEX OF ITS PLANS

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IT-16	DIRECTIONAL BORE AND CONDUIT DETAILS
IT-17 - IT-18	SPLICING DIAGRAM
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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL.

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

INTELLIGENT TRANSPORTATION SYSTEMS PLANS
PROFESSIONAL OF RECORD: BURAK KONUK, P.E. NO. 81581
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET, SUITE 400
TAMPA, FL 33602



Know what's below
Call before you dig

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.

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

GENERAL NOTES

1. THE CONTRACTOR SHALL CONTACT THE MANATEE COUNTY TRAFFIC ENGINEERING DIVISION BEFORE STARTING WORK.
2. THESE PLANS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION CONTRACTOR SHOULD OBTAIN DESIGN ENGINEER AND FDOT APPROVAL FOR NEEDED CHANGES DUE TO SITE CONDITIONS.
3. ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED AT THE TIME OF INSTALLATION WITH PERMANENT, LEGIBLE, WEATHERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE IN ACCORDANCE WITH FDOT SPECIFICATIONS.
4. CONTRACTOR SHALL SUPPLY ALL MATERIAL SUBMITTALS TO THE ENGINEER, PRIOR TO CONSTRUCTION, FOR APPROVAL.
5. THE ACCEPTANCE OF ANY SUBMITTED DATA FOR MATERIALS, EQUIPMENT, APPARATUS, DEVICES, ARRANGEMENTS AND/OR LAYOUTS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PLACING SAME AND PROPER DIMENSIONS, CAPACITIES, SIZES, QUANTITY AND INSTALLATIONS DETAILS TO EFFICIENTLY PERFORM THE REQUIREMENTS AND INTENT OF THE CONTRACT. SUCH ACCEPTANCE SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OF ANY SORT ON THE SUBMITTAL DATA.
6. ANY SIGNIFICANT VARIATION FROM THE PROPOSED ROUTING OF THE CONDUIT AND PLACEMENT OF THE PROJECT ELEMENTS SHALL BE VERIFIED WITH AND APPROVED BY THE ENGINEER AND THE FDOT AND SHALL BE INCORPORATED IN THE "AS-BUILT" PLANS.
7. THE CONTRACTOR IS TO ENSURE THAT ANY EXISTING WALLS, EARTHEN EMBANKMENTS, AND STRUCTURES ARE NOT UNDERMINED DURING FOUNDATION EXCAVATION AND INSTALLATION. METHODS TO SHORE UP WALLS AND EMBANKMENTS SHALL BE APPROVED BY THE FDOT.
8. THE CONTRACTOR IS TO DE-WATER THE POLE FOUNDATION EXCAVATION IF THE ELEVATION OF WATER IS HIGHER THAN THE ELEVATION OF THE FOUNDATION BASE.
9. THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/FOUNDATIONS SHALL MEET THE FOLLOWING REQUIREMENT:
 - 9.a. OVERHEAD LINES SHALL STAY IN PLACE BOTH VERTICALLY AND HORIZONTALLY; AND
 - 9.b. CONTRACTOR SHALL MEET ALL APPLICABLE OSHA REQUIREMENTS. ANY COST ASSOCIATED WITH THE TYPE OF EQUIPMENT REQUIRED FOR THIS INSTALLATION SHALL BE INCLUDED IN THE RELATED PAY ITEMS.
10. CONTRACTOR SHALL UTILIZE THE FDOT STANDARD PLANS INDEX 102 SERIES FOR TRAFFIC CONTROL THROUGH WORK ZONES, AS APPLICABLE, DURING MAINTENANCE OF TRAFFIC OPERATIONS.
11. DURING NON-WORKING HOURS, NO EQUIPMENT, VEHICLES, OR MATERIALS SHALL BE PARKED OR STORED WITHIN THE CLEAR ZONE OF THE ROADWAY.
12. ALL MATERIALS, EQUIPMENT, AND OTHER CONTRACTOR SUPPLIED ITEMS SHALL BE INSTALLED AND MAINTAINED ACCORDING TO THE MANUFACTURERS' RECOMMENDATIONS, UNLESS SPECIFICALLY DIRECTED OTHERWISE BY THE ENGINEER.
13. THE LOCATION OF ALL PROPOSED EQUIPMENT TO BE INSTALLED SHALL BE CONSIDERED APPROXIMATE. ADJUSTMENTS MAY BE NECESSARY DUE TO FIELD CONDITIONS; VARIATIONS FROM THE LOCATIONS DEPICTED IN THE PLANS MUST BE VERIFIED BY THE ENGINEER.
14. THE CONTRACTOR IS TO TAKE CARE WHEN WORKING IN AND AROUND LANDSCAPED AREAS IN ORDER TO MINIMIZE IMPACTS.
15. AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DEPARTMENTS TO INFORM THEM OF CONSTRUCTION OPERATIONS:

MANATEE COUNTY TRAFFIC OPERATIONS DIVISION
MR. AARON BURKETT
2904 12TH STREET COURT EAST
BRADENTON, FLORIDA 34208
PHONE: (941) 708-7450, EXT. 7509

MANATEE COUNTY TRAFFIC ENGINEERING DIVISION
MR. VISHAL KAKKAD, P.E., PTOE
2101 47TH TERRACE EAST
BRADENTON, FLORIDA 34208
PHONE: (941) 749-3500 EXT. 7812
16. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW FOR ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED. THE CONTRACTOR SHALL FURNISH COPIES OF ALL DRAWINGS, SCHEDULES AND COMPLETE DESCRIPTIVE AND TECHNICAL DATA ON ALL ITEMS TO THE MR. AARON BURKETT, THE MANATEE COUNTY TRAFFIC OPERATIONS DIVISION MANAGER AT

2904 12TH/ ST CT E, BRADENTON, FLORIDA 34208.

17. WHEN CONSTRUCTION IS COMPLETE, IN ADDITION TO THE REQUIREMENT OF STANDARD SPECIFICATION 9-8.1(H), PROVIDE A SET OF "AS-BUILT" PLANS TO:

MANATEE COUNTY
TRAFFIC DIVISION MANAGER
P.O. BOX 1000
BRADENTON, FL 34206-1000

MR. VISHAL S. KAKKAD, P.E., PTOE
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
TRAFFIC DESIGN DIVISION MANAGER
2101 47TH TERRACE EAST
BRADENTON, FL 34203
PHONE: (941) 749-3500 EXT. 7812

18. WHEN CONSTRUCTION IS COMPLETE, PROVIDE A SET OF "AS-BUILT" PLANS IN ELECTRONIC FORM (PDF) TO:

FDOT TRAFFIC OPERATIONS
RENJAN JOSEPH, P.E., TRAFFIC SIGNAL SYSTEM MANAGER
801 N. BROADWAY AVE.
BARTOW, FL 33830-1249
EMAIL: RENJAN.JOSEPH@DOT.STATE.FL.US
PHONE: (863) 519-2746

DELIVER THREE HARD-COPY SETS OF AS-BUILT RECORD DRAWINGS, TWO SETS OF ISMA INSPECTION FORMS, AND ONE COMPACT DISK OF RECORD DRAWINGS IN ADOBE ACRBAT (.PDF) AND AUTOCAD (.DWG) FORMAT TO MANATEE COUNTY TRAFFIC DESIGN DIVISION (ATTN: MR. VISHAL S. KAKKAD, P.E., PTOE) AT 2101 47TH TERRACE EAST, BRADENTON, FL 34203. RECORD DRAWINGS AND INSPECTION FORMS MUST BE DELIVERED TO THE COUNTY AT LEAST TWO (2) BUSINESS DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION.

19. FORTY-EIGHT (48) HOURS PRIOR TO CONTRACT START DATE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES IN WRITING GIVING THE LOCATION, START DATE AND EMERGENCY NUMBERS FOR AFTERHOURS REPAIRS:

FLORIDA HIGHWAY PATROL
POST OFFICE BOX 20009
BRADENTON, FLORIDA 34203
PHONE #: (941) 751-7646

MANATEE SHERIFF'S OFFICE
515 11TH/ STREET WEST
BRADENTON, FLORIDA 34205
PHONE #: (941) 747-3011

PULL AND SPLICE BOXES NOTES:


1. ALL PULL BOX AND SPLICE BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC.
2. FIBER OPTIC PULL BOX DIMENSIONS SHALL BE 24"x36"x36" AND THE FIBER OPTIC SPLICE BOX DIMENSIONS SHALL BE 30"x60"x48". FIBER OPTIC PULL AND SPLICE BOX LIDS SHALL BE STAMPED "MANATEE COUNTY FIBER OPTIC SYSTEM" ON THE COVER.

CONDUIT NOTES:

1. ALL HDPE CONDUIT CONNECTIONS SHALL BE JOINED WITH A FUSION COUPLER OR FUSION SPLICE.
2. THE CONTRACTOR SHALL ADJUST THE CONDUIT RUNS, DEVICE POLES, BORES AND SERVICE POLE PLACEMENT TO AVOID ANY UTILITY CONFLICTS IDENTIFIED BY THE LOCATES. ANY SIGNIFICANT CHANGE SHALL BE APPROVED BY THE ENGINEER.
3. THE CONDUITS TO BE INSTALLED ARE TO BE PLACED SO AS TO TOTALLY AVOID ANY CONFLICTS WITH EXISTING UTILITIES ALONG THE ROUTE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY INFORMATION REQUIRED TO PLAN THE WORK AHEAD FOR THE INSTALLATION OF THE REQUIRED CONDUITS WITHIN DESIGN OR SPECIFIED PARAMETERS AND HIS TIME FRAME. THE CONTRACTOR SHALL ADJUST CONDUIT VERTICALLY OR HORIZONTALLY TO AVOID CONFLICT WITH UNDERGROUND UTILITIES. THE CONTRACTOR SHALL USE HAND EXCAVATION METHODS WHEN EXCAVATING NEAR EXISTING UTILITIES, NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. EXTREME CAUTION SHALL BE USED BY THE CONTRACTOR WHEN EXCAVATING, INSTALLING, BACK FILLING AND COMPACTING AROUND EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY.
4. 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. NO PULL BOXES SHALL BE LOCATED IN DRAINAGE SWALES OR PAVED SHOULDERS.

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NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	BURAK KONUK, P.E. LICENSE NUMBER 81581 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	6/1/22			GENERAL NOTES (1)	IT-2
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22				
			SCALE	NTS	CHECKED	BK	6/1/22				

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 MARKED "TRAFFIC SIGNAL" 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 SHALL BE 17"X 30"X 12"AND THE LID SHALL BE STAMPED "MANATEE COUNTY TRAFFIC SIGNAL"ON THE COVER.
- 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.
- 641-2-14:
UNLESS OTHERWISE NOTED IN THE PLANS, ALL SERVICE POLES SHALL BE 36' IN HEIGHT AND SHALL NOT EXCEED A HEIGHT OF 40' FROM GROUND LEVEL.
- 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.
- 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.
- 682-1-133:
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-OPS23-0BA0-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.

<u>POLE DATA TABLE</u>	ITS POLE #	1	1A
	DEVICES	MVDS	MVDS / CCTV
	POLE MOUNTED CABINET	NEMA 3R	336S
	PLAN SHEET	IT-6	IT-9
	STATION	16+00 @ SURVEY 60TH AVE. E	38+68 @ SURVEY 60TH AVE. E
	OFFSET	41' LT	11' LT
	POLE LENGTH	36'-0"	36'-0"
	FOUNDATION DEPTH	10'	10'

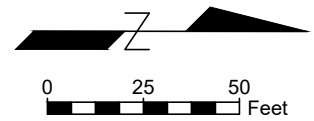
LEGEND

- | | | | |
|--|---|--|-------------------------------------|
| | PROPOSED UNDERGROUND CONDUIT (OPEN TRENCH) | | PROPOSED MVDS |
| | PROPOSED UNDERGROUND CONDUIT (DIRECTIONAL BORE) | | PROPOSED MVDS DETECTION ZONE |
| | PROPOSED PULL BOX | | PROPOSED CCTV |
| | PROPOSED ELECTRICAL PULL BOX | | PROPOSED ITS CABINET (POLE MOUNTED) |
| | PROPOSED SPLICE VAULT | | |

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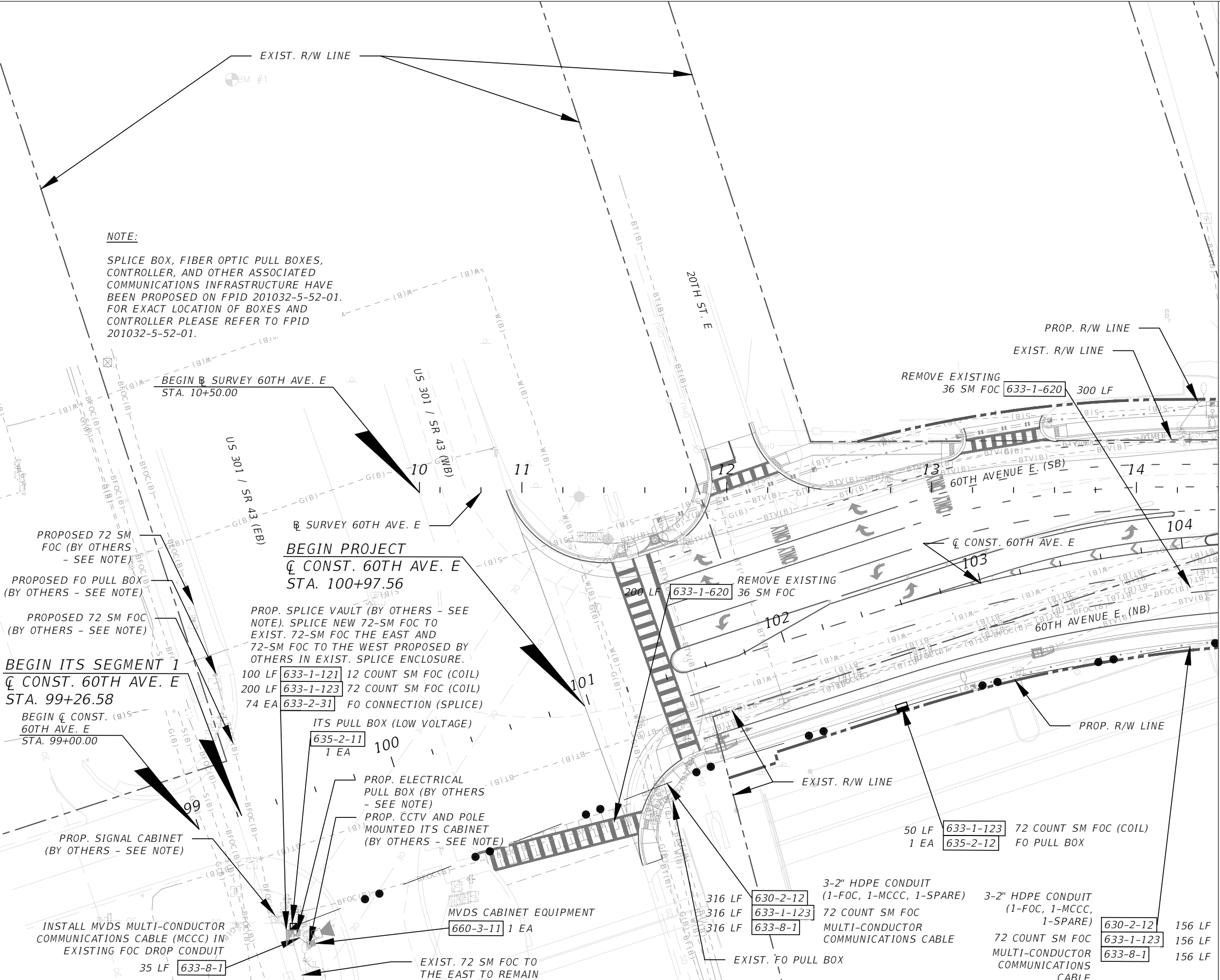
NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	BURAK KONUK, P.E. LICENSE NUMBER 81581 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	<i>GENERAL NOTES (5)</i>	SHEET NO.
			SURVEY #	18-2238	DESIGNED	CT	6/1/22				IT-4
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22				
			SCALE	NTS	CHECKED	BK	6/1/22				



NOTE:

SPLICE BOX, FIBER OPTIC PULL BOXES, CONTROLLER, AND OTHER ASSOCIATED COMMUNICATIONS INFRASTRUCTURE HAVE BEEN PROPOSED ON FPID 201032-5-52-01. FOR EXACT LOCATION OF BOXES AND CONTROLLER PLEASE REFER TO FPID 201032-5-52-01.


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MATCHLINE STA. - 14+40.00

NUMBER	DESCRIPTION	DATE	PROJECT #	SURVEYED	HYATT	5/2021
			6083160			
			18-2238	DESIGNED	CT	6/1/22
			4-345-18E	DRAWN	CT	6/1/22
			1" = 50'	CHECKED	BK	6/1/22

BURAK KONUK, P.E.
P.E. LICENSE NUMBER 81581
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET
SUITE 400
TAMPA, FL 33602

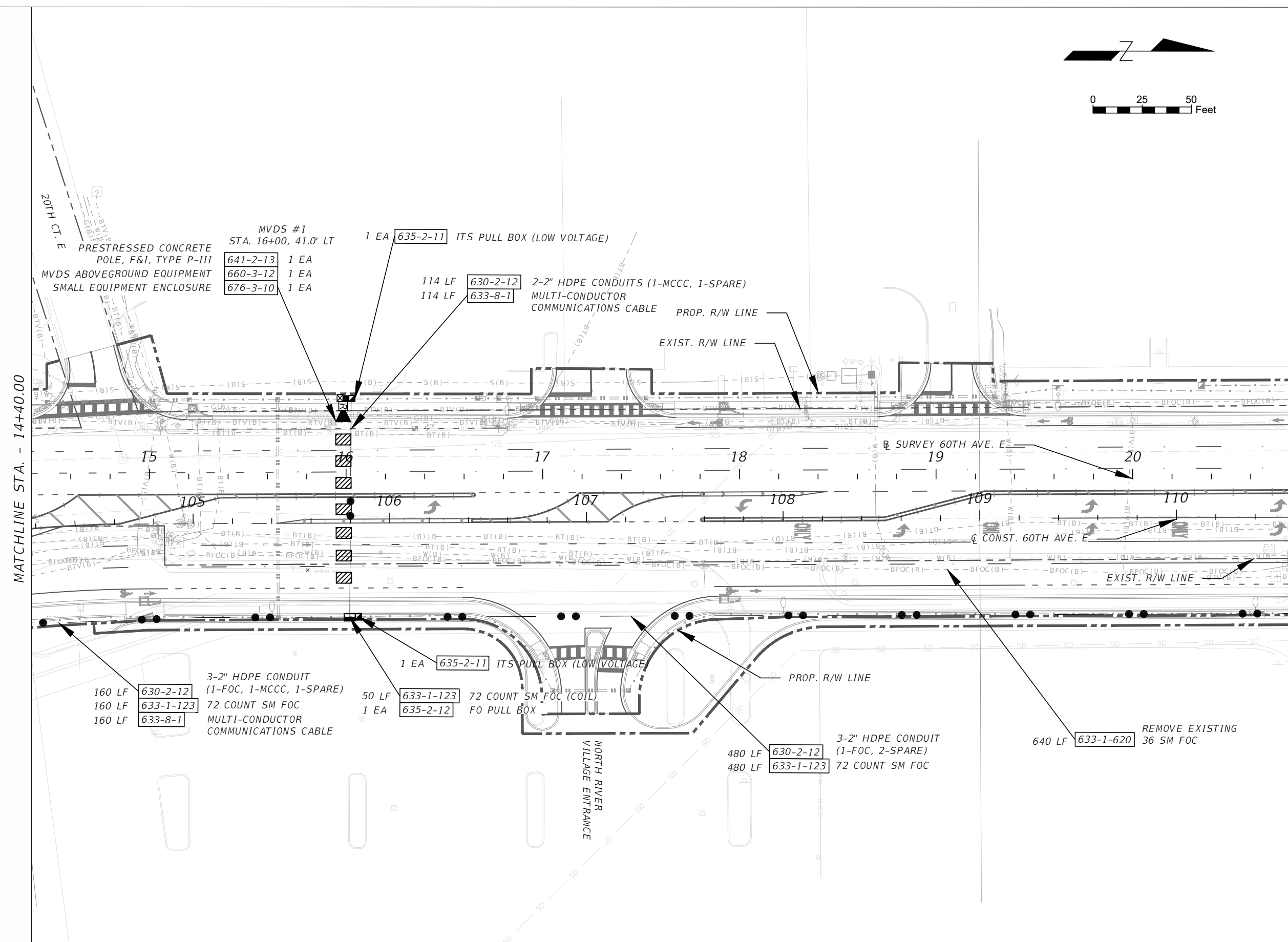
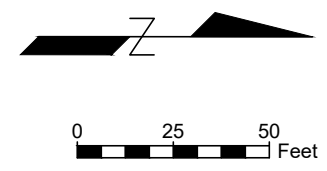


**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**
1022 26th Avenue East, Bradenton, FL 34208

ITS PLAN (1)

SHEET NO.
IT-5

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NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	BURAK KONUK, P.E. P.E. LICENSE NUMBER 81581 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)		SHEET NO.	
			SURVEY #	18-2238	DESIGNED	CT	6/1/22						
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22						
			SCALE	1" = 50'	CHECKED	BK	6/1/22						IT-6

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MATCHLINE STA. - 20+80.00

MATCHLINE STA. - 27+20.00

- 100 LF 633-1-121 12 COUNT SM FOC (COIL)
- 1 EA 635-2-12 FO PULL BOX
- 12 EA 633-2-32 FO CONNECTION (TERMINATION)
- 1 EA 633-3-14 FAN OUT
- 1 EA 633-3-15 PRE-TERMINATED PATCH PANEL
- 1 EA 684-1-1 MFES

- 15 LF 630-2-11 3-2" HDPE CONDUIT (1-CAT5, 1-MCCC, 1-SPARE)
- 40 LF 633-8-1 MULTI-CONDUCTOR COMMUNICATIONS CABLE

- 1 EA 682-1-133 CCTV CAMERA
- 633-1-620 REMOVE EXISTING 36 SM FOC
- 78 LF

- SEE NOTE 630-2-12 2-2" CONDUITS (1-FOC DROP, 1-SPARE)
- 121 LF 633-1-121 12 COUNT SM FOC

- 100 LF 633-1-121 12 COUNT SM FOC (COIL)
- 200 LF 633-1-123 72 COUNT SM FOC (COIL)
- 4 EA 633-2-31 FO CONNECTION (SPlice)
- 1 EA 633-3-11 FO CONNECTION (SPlice ENCLOSURE)
- 1 EA 633-3-12 FO CONNECTION (SPlice TRAY)
- 1 EA 635-2-13 SPlice BOX

- 2 LF 630-2-12 3-2" HDPE CONDUIT (1-FOC, 2-SPARE)
- 2 LF 633-1-123 72 COUNT SM FOC

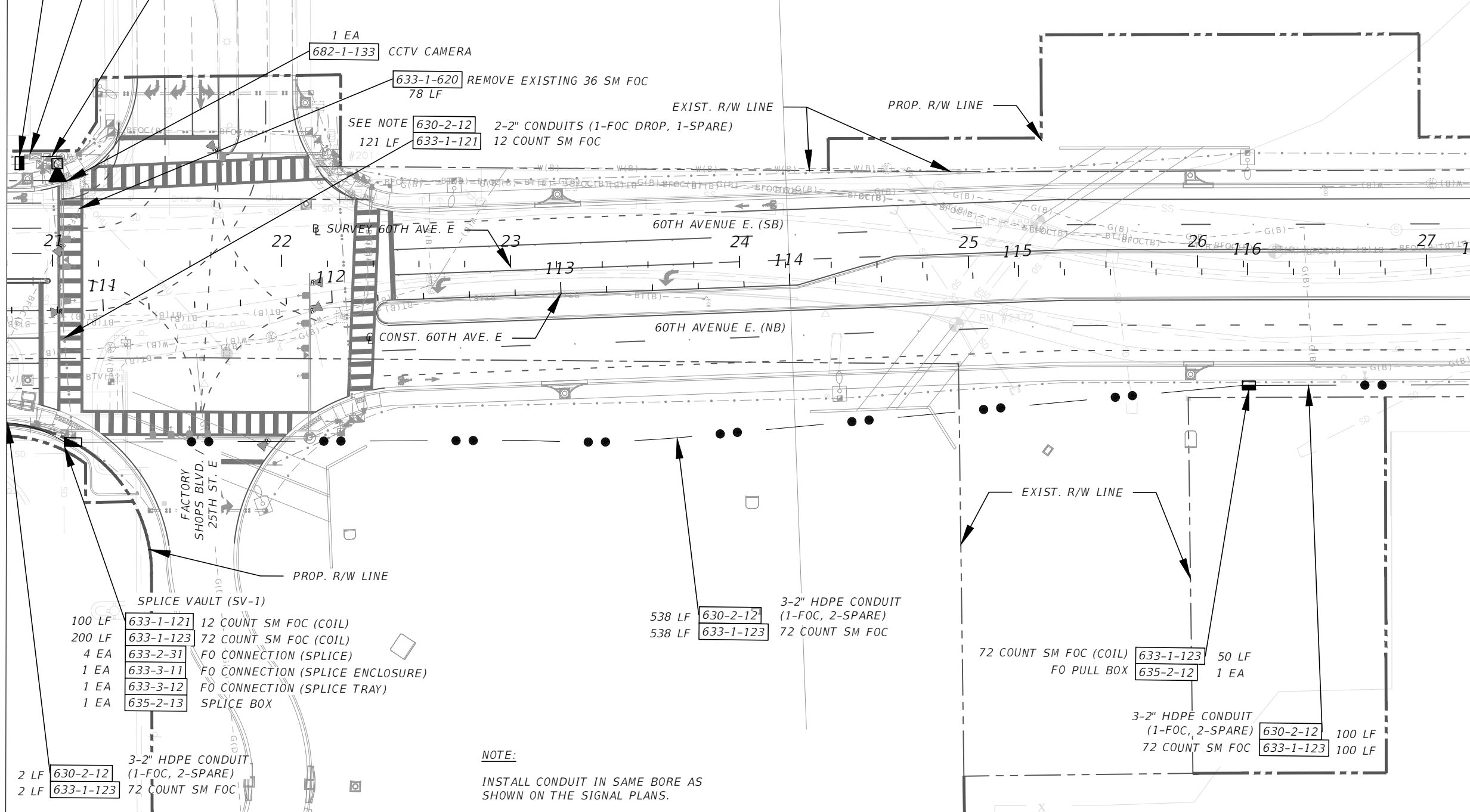
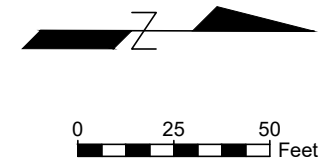
- 538 LF 630-2-12 3-2" HDPE CONDUIT (1-FOC, 2-SPARE)
- 538 LF 633-1-123 72 COUNT SM FOC

- 72 COUNT SM FOC (COIL) 633-1-123
- FO PULL BOX 635-2-12
- 50 LF
- 1 EA

- 3-2" HDPE CONDUIT (1-FOC, 2-SPARE) 630-2-12
- 72 COUNT SM FOC 633-1-123
- 100 LF
- 100 LF

NOTE:

INSTALL CONDUIT IN SAME BORE AS SHOWN ON THE SIGNAL PLANS.



NUMBER	DESCRIPTION	DATE	PROJECT #	SURVEYED	HYATT	5/2021
			6083160			
			18-2238	DESIGNED	CT	6/6/22
			4-345-18E	DRAWN	CT	6/6/22
			SCALE 1" = 50'	CHECKED	BK	6/6/22

BURAK KONUK, P.E.
P.E. LICENSE NUMBER 81581
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201 N. FRANKLIN STREET
SUITE 400
TAMPA, FL 33602



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

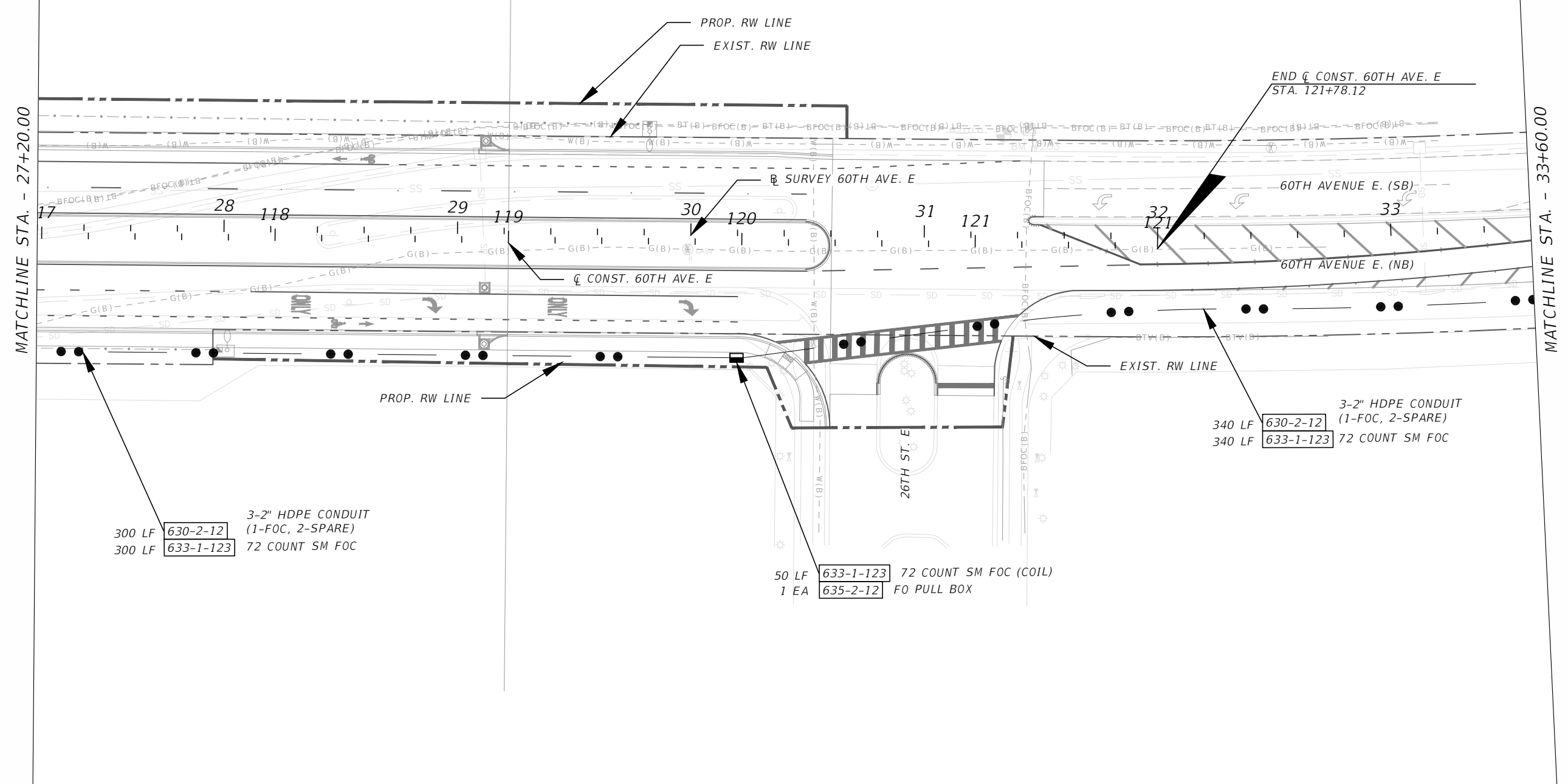
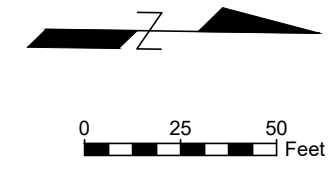
ITS PLAN (3)

SHEET NO.

IT-7

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300 LF 630-2-12 3-2" HDPE CONDUIT (1-FOC, 2-SPARE)
 300 LF 633-1-123 72 COUNT SM FOC

50 LF 633-1-123 72 COUNT SM FOC (COIL)
 1 EA 635-2-12 FO PULL BOX

340 LF 630-2-12 3-2" HDPE CONDUIT (1-FOC, 2-SPARE)
 340 LF 633-1-123 72 COUNT SM FOC

NUMBER	DESCRIPTION	DATE	PROJECT #	SURVEYED	HYATT	5/2021
			6083160			
			18-2238	DESIGNED	CT	6/6/22
			4-345-18E	DRAWN	CT	6/6/22
			1" = 50'	CHECKED	BK	6/6/22

BURAK KONUK, P.E.
 P.E. LICENSE NUMBER 81581
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602



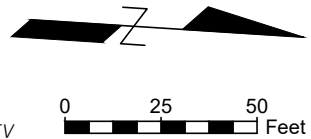
PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ITS PLAN (4)

SHEET NO.
 IT-8

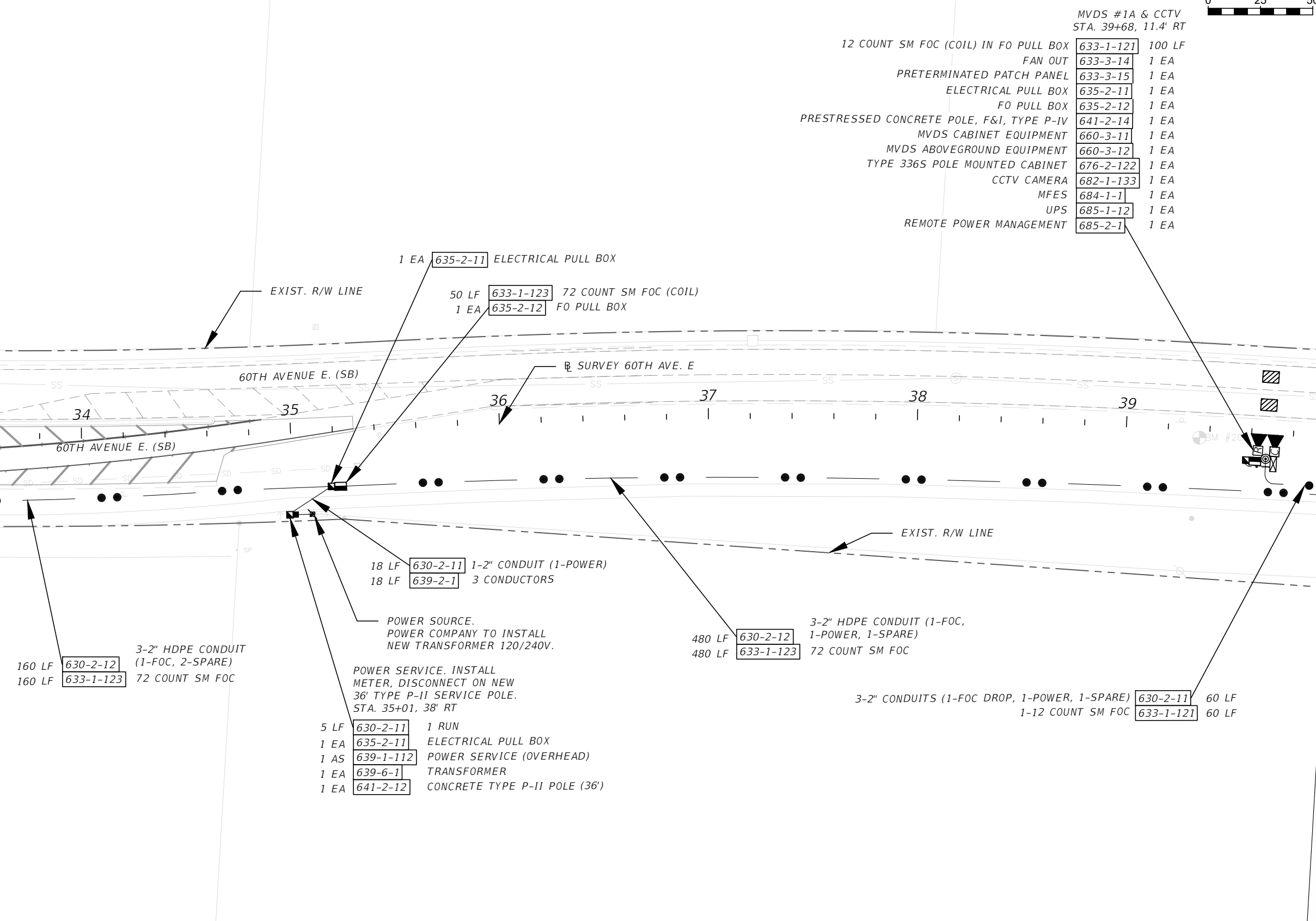
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MATCHLINE STA. - 33+60.00

MATCHLINE STA. - 40+00.00



- MVDS #1A & CCTV
STA. 39+68, 11.4' RT
- 12 COUNT SM FOC (COIL) IN FO PULL BOX 633-1-121 100 LF
 - FAN OUT 633-3-14 1 EA
 - PRETERMINATED PATCH PANEL 633-3-15 1 EA
 - ELECTRICAL PULL BOX 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
 - CCTV CAMERA 682-1-133 1 EA
 - MFES 684-1-1 1 EA
 - UPS 685-1-12 1 EA
 - REMOTE POWER MANAGEMENT 685-2-1 1 EA

1 EA 635-2-11 ELECTRICAL PULL BOX
50 LF 633-1-123 72 COUNT SM FOC (COIL)
1 EA 635-2-12 FO PULL BOX

160 LF 630-2-12 3-2" HDPE CONDUIT (1-FOC, 2-SPARE)
160 LF 633-1-123 72 COUNT SM FOC

18 LF 630-2-11 1-2" CONDUIT (1-POWER)
18 LF 639-2-1 3 CONDUCTORS

POWER SOURCE.
POWER COMPANY TO INSTALL
NEW TRANSFORMER 120/240V.

POWER SERVICE. INSTALL
METER, DISCONNECT ON NEW
36' TYPE P-II SERVICE POLE.
STA. 35+01, 38' RT


- 5 LF 630-2-11 1 RUN
- 1 EA 635-2-11 ELECTRICAL PULL BOX
- 1 AS 639-1-112 POWER SERVICE (OVERHEAD)
- 1 EA 639-6-1 TRANSFORMER
- 1 EA 641-2-12 CONCRETE TYPE P-II POLE (36')

480 LF 630-2-12 3-2" HDPE CONDUIT (1-FOC, 1-POWER, 1-SPARE)
480 LF 633-1-123 72 COUNT SM FOC

3-2" CONDUITS (1-FOC DROP, 1-POWER, 1-SPARE) 630-2-11 60 LF
1-12 COUNT SM FOC 633-1-121 60 LF

NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021
			SURVEY #	18-2238	DESIGNED	CT	6/6/22
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/6/22
			SCALE	1" = 50'	CHECKED	BK	6/6/22

BURAK KONUK, P.E.
P.E. LICENSE NUMBER 81581
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET
SUITE 400
TAMPA, FL 33602



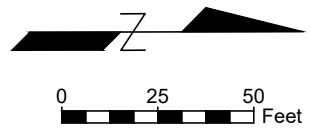
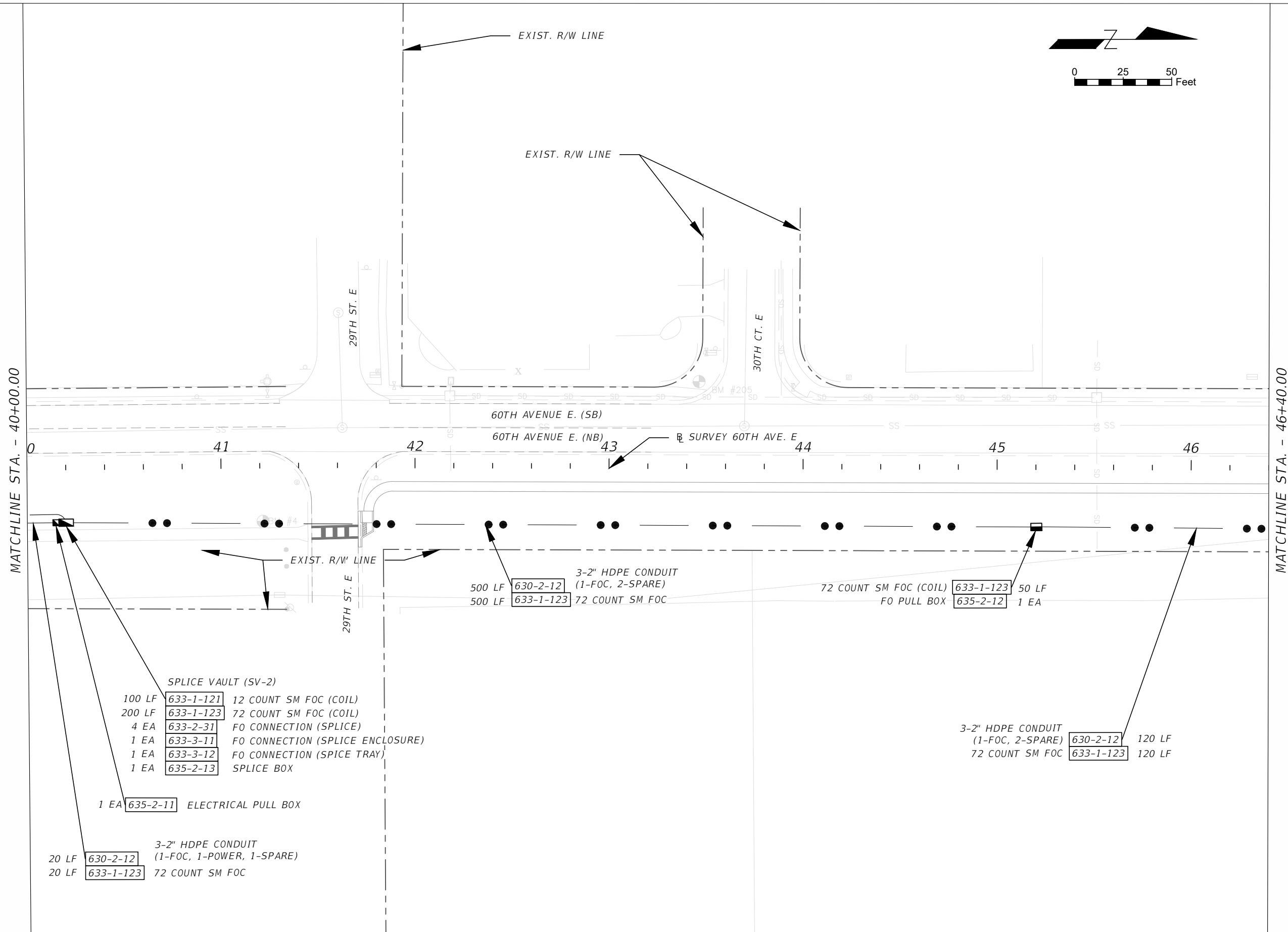
**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**
1022 26th Avenue East, Bradenton, FL 34208

ITS PLAN (5)

SHEET NO.
IT-9


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NUMBER	DESCRIPTION	DATE	PROJECT #	SURVEYED	HYATT	5/2021
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			18-2238	DESIGNED	CT	6/6/22
			4-345-18E	DRAWN	CT	6/6/22
			SCALE 1" = 50'	CHECKED	BK	6/6/22

BURAK KONUK, P.E.
 P.E. LICENSE NUMBER 81581
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602



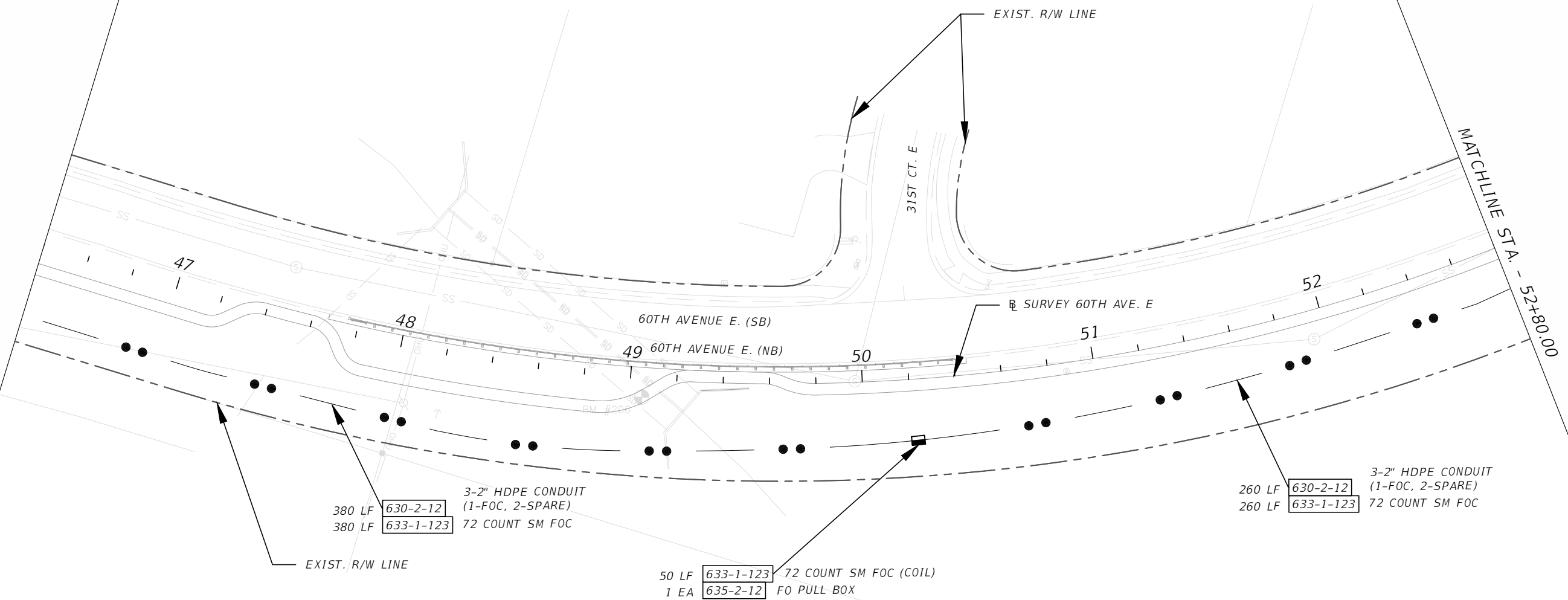
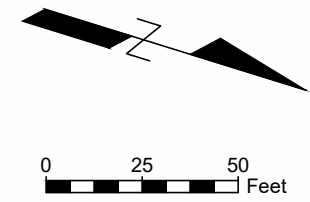
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 1022 26th Avenue East, Bradenton, FL 34208

ITS PLAN (6)

SHEET NO.
 IT-10

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380 LF 630-2-12 3-2" HDPE CONDUIT (1-FOC, 2-SPARE)
 380 LF 633-1-123 72 COUNT SM FOC

260 LF 630-2-12 3-2" HDPE CONDUIT (1-FOC, 2-SPARE)
 260 LF 633-1-123 72 COUNT SM FOC

50 LF 633-1-123 72 COUNT SM FOC (COIL)
 1 EA 635-2-12 FO PULL BOX

NUMBER	DESCRIPTION	DATE	PROJECT #	SURVEYED	HYATT	5/2021
			6083160			
			18-2238	DESIGNED	CT	6/1/22
			4-345-18E	DRAWN	CT	6/1/22
			SCALE 1" = 50'	CHECKED	BK	6/1/22

BURAK KONUK, P.E.
 P.E. LICENSE NUMBER 81581
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602



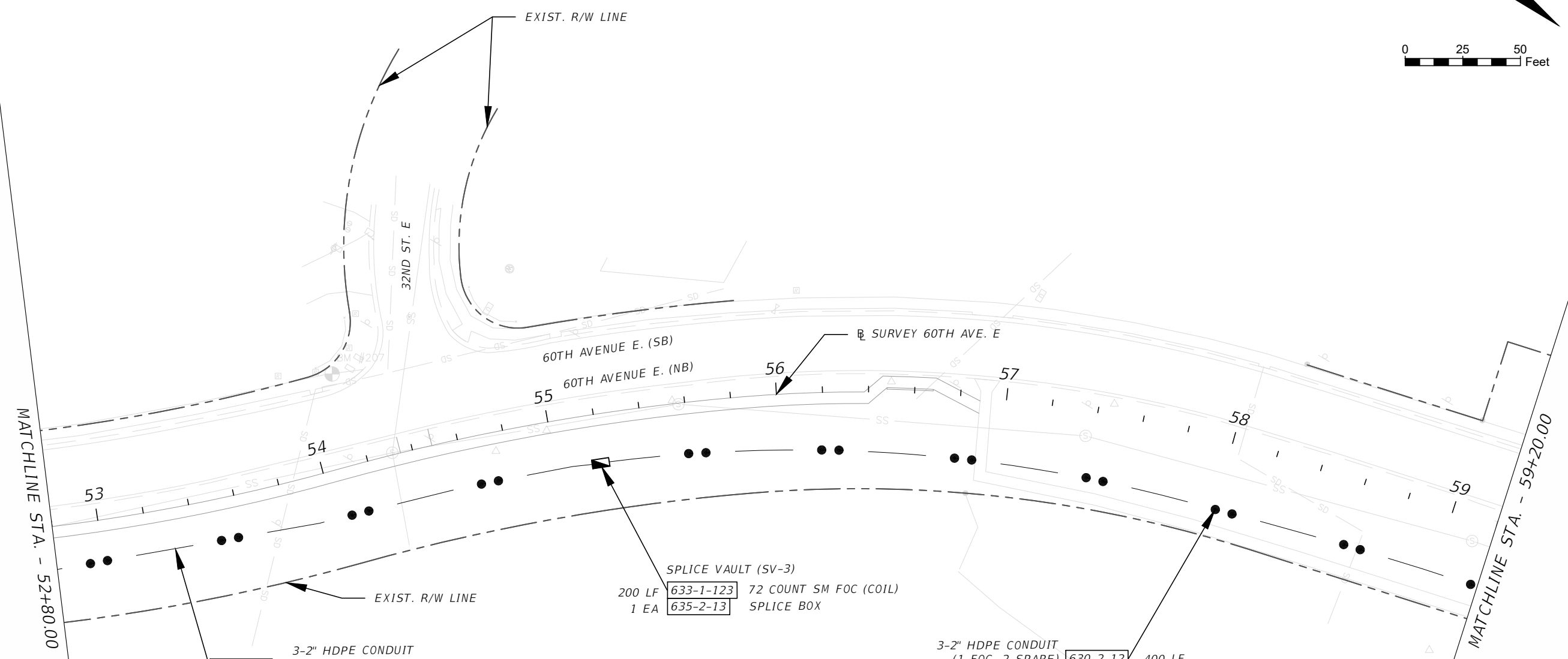
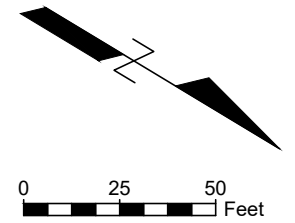
PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ITS PLAN (7)

SHEET NO.
 IT-11

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240 LF 630-2-12 3-2" HDPE CONDUIT (1-FOC, 2-SPARE)
 240 LF 633-1-123 72 COUNT SM FOC

SPLICE VAULT (SV-3)
 200 LF 633-1-123 72 COUNT SM FOC (COIL)
 1 EA 635-2-13 SPLICE BOX

3-2" HDPE CONDUIT (1-FOC, 2-SPARE) 630-2-12 400 LF
 72 COUNT SM FOC 633-1-123 400 LF

NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021
			SURVEY #	18-2238	DESIGNED	CT	6/1/22
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22
			SCALE	1" = 50'	CHECKED	BK	6/1/22

BURAK KONUK, P.E.
 P.E. LICENSE NUMBER 81581
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602



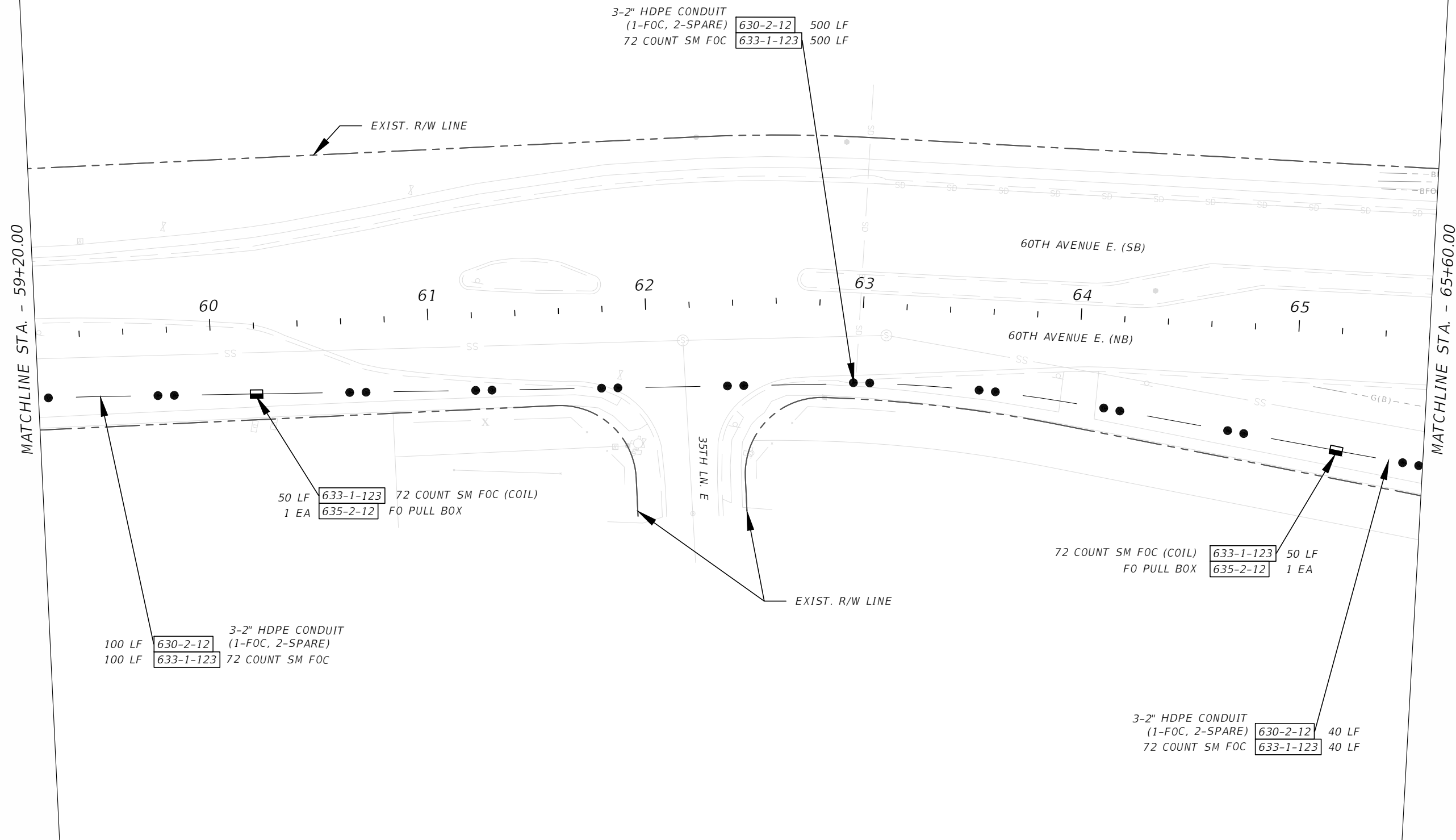
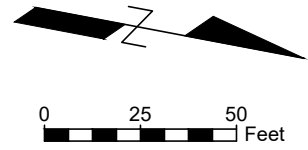
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 1022 26th Avenue East, Bradenton, FL 34208

ITS PLAN (8)

SHEET NO.
 IT-12


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NUMBER	DESCRIPTION	DATE	PROJECT #	SURVEYED	HYATT	5/2021
			6083160			
			18-2238	DESIGNED	CT	6/1/22
			4-345-18E	DRAWN	CT	6/1/22
			SCALE	1" = 50'	CHECKED	BK 6/1/22

BURAK KONUK, P.E.
P.E. LICENSE NUMBER 81581
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET
SUITE 400
TAMPA, FL 33602



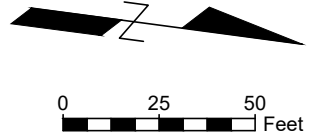
**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**
1022 26th Avenue East, Bradenton, FL 34208

ITS PLAN (9)

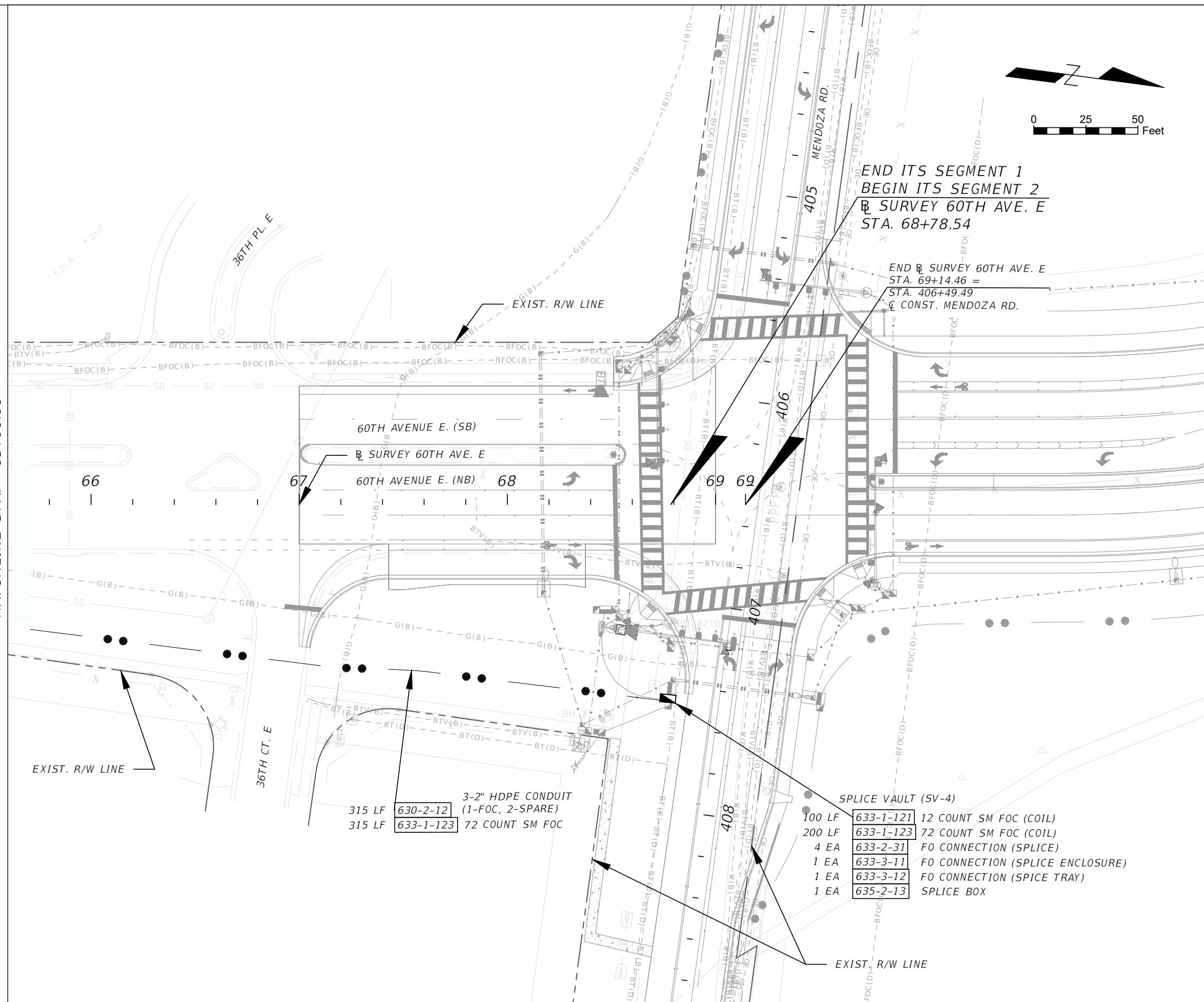
SHEET NO.
IT-13

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MATCHLINE STA. - 65+60.00



END ITS SEGMENT 1
 BEGIN ITS SEGMENT 2
 @ SURVEY 60TH AVE. E
 STA. 68+78.54

END @ SURVEY 60TH AVE. E
 STA. 69+14.46 =
 STA. 406+49.49
 @ CONST. MENDOZA RD.

3-2" HDPE CONDUIT
 (1-FOC, 2-SPARE)
 315 LF 630-2-12
 315 LF 633-1-123 72 COUNT SM FOC

SPLICE VAULT (SV-4)
 100 LF 633-1-121 12 COUNT SM FOC (COIL)
 200 LF 633-1-123 72 COUNT SM FOC (COIL)
 4 EA 633-2-31 FOC CONNECTION (SPLICE)
 1 EA 633-3-11 FOC CONNECTION (SPLICE ENCLOSURE)
 1 EA 633-3-12 FOC CONNECTION (SPICE TRAY)
 1 EA 635-2-13 SPLICE BOX

NUMBER	DESCRIPTION	DATE	PROJECT #	SURVEYED	HYATT	5/2021
			6083160	DESIGNED	CT	6/6/22
			18-2238	DRAWN	CT	6/6/22
			4-345-18E	CHECKED	BK	6/6/22
			SCALE 1" = 50'			

BURAK KONUK, P.E.
 P.E. LICENSE NUMBER 81581
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602



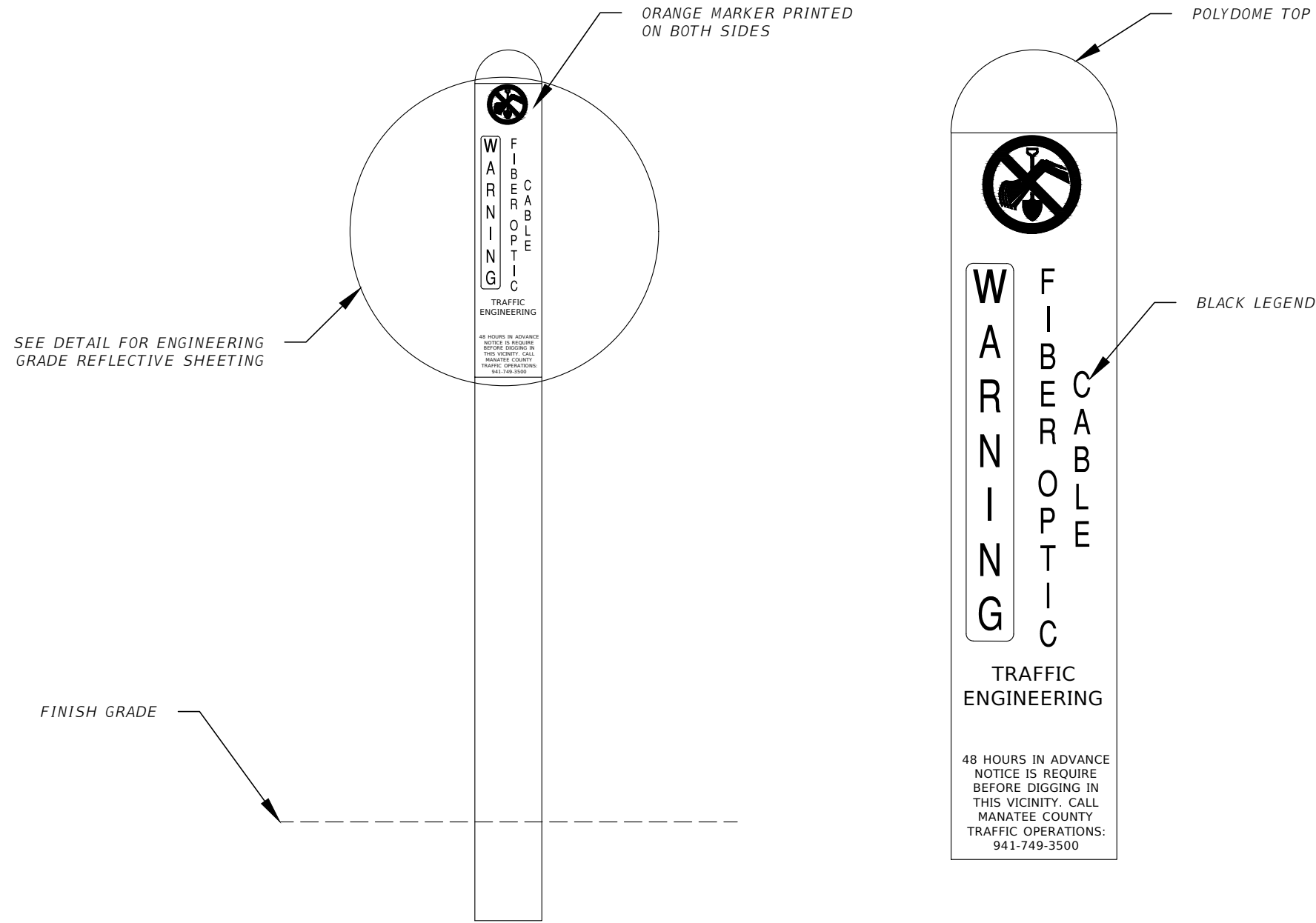
PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ITS PLAN (10)

SHEET NO.
 IT-14

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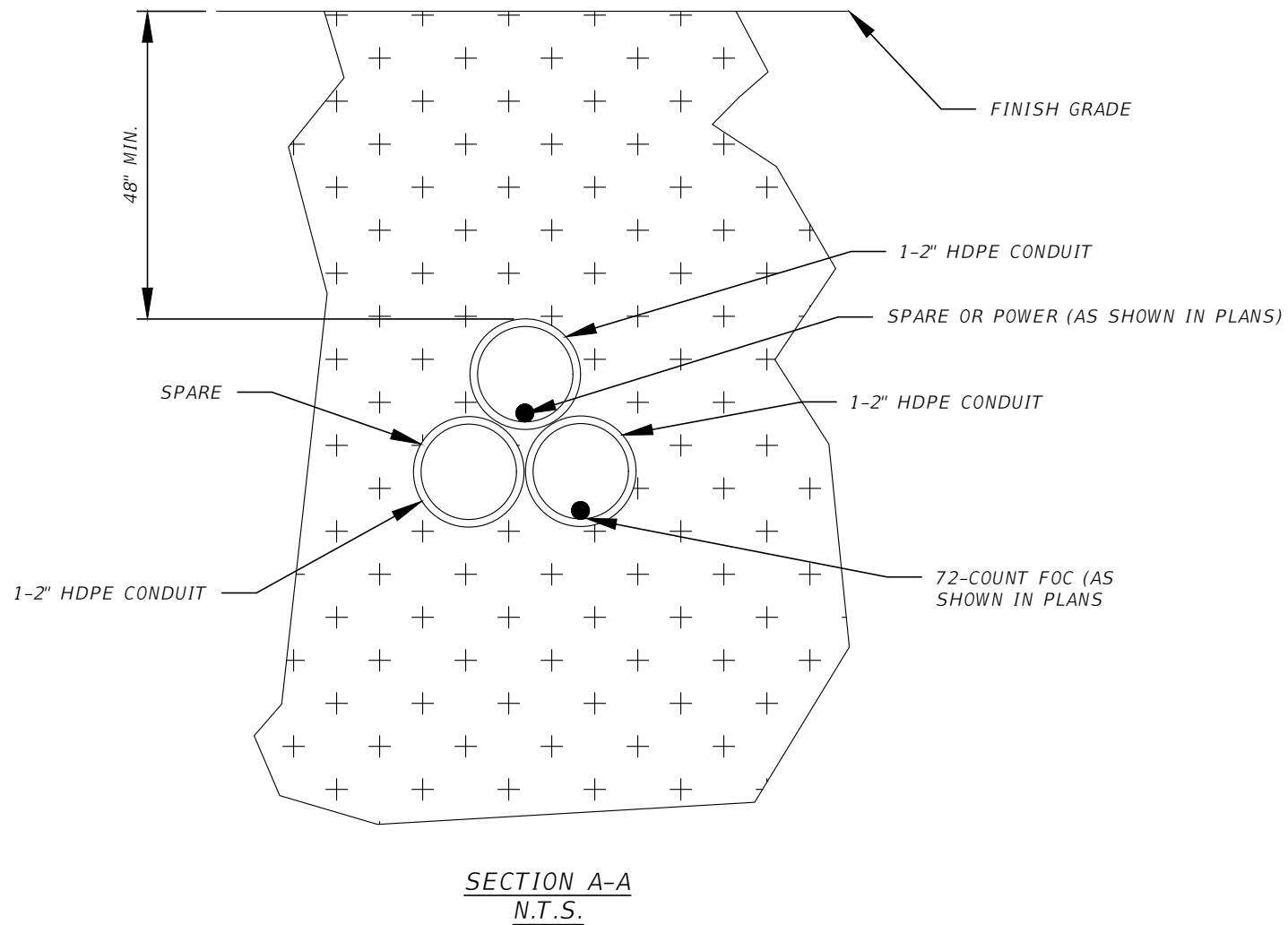
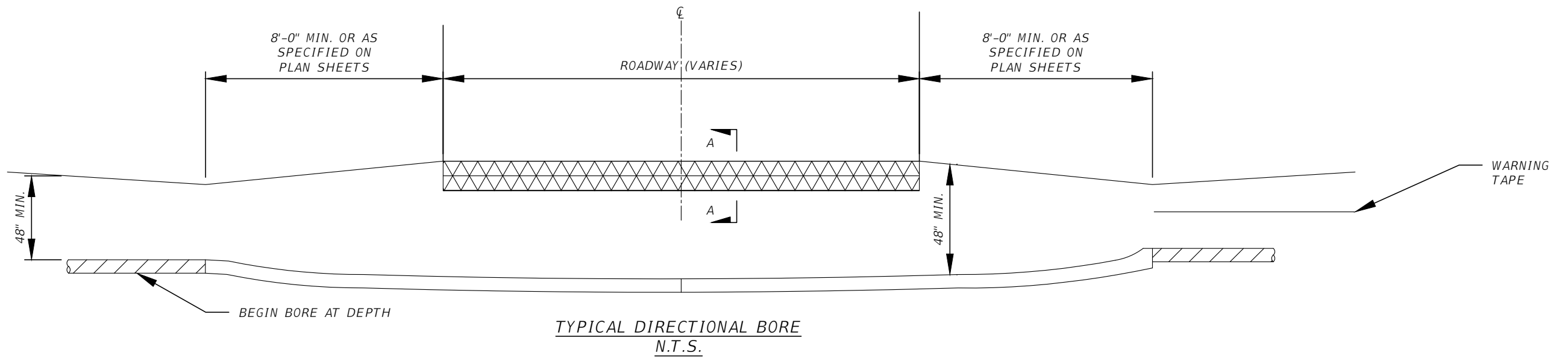
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FIBER OPTIC CABLE ROUTE MARKER
N.T.S.

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NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	BURAK KONUK, P.E. LICENSE NUMBER 81581 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	FIBER OPTIC MARKER DETAIL		SHEET NO.	
			SURVEY #	18-2238	DESIGNED	CT	6/1/22						
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22						
			SCALE	NTS	CHECKED	BK	6/1/22						IT-15



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 #	6083160	SURVEYED	HYATT	5/2021
			SURVEY #	18-2238	DESIGNED	CT	5/25/22
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	5/25/22
			SCALE	NTS	CHECKED	BK	5/25/22

BURAK KONUK, P.E.
 LICENSE NUMBER 81581
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602



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 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

*DIRECTIONAL BORE AND CONDUIT
 DETAILS*

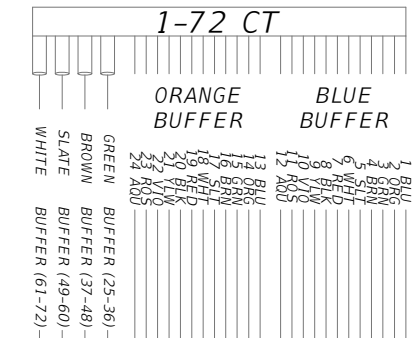
SHEET NO.

IT-16

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PROPOSED 72 COUNT SM FOC
GOING WEST ON US 301
(BY OTHERS, SEE NOTE)

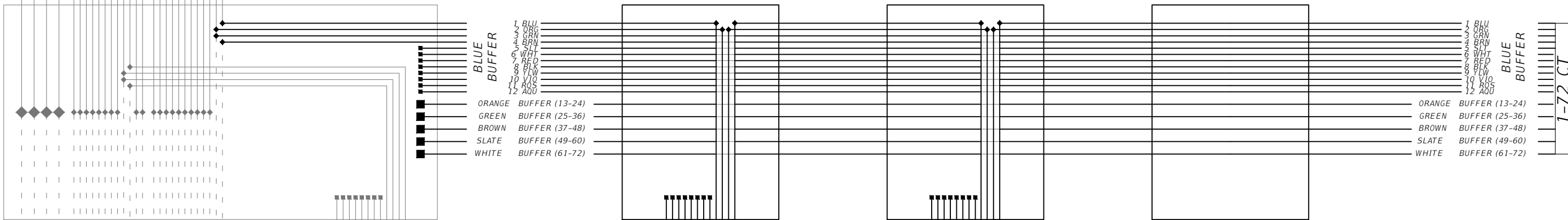


PROPOSED SPLICE
VAULT (BY OTHERS,
SEE NOTE).
STA. 99+25, 65' RT

PROPOSED SPLICE
VAULT (SV-1).
STA. 21+09, 77' RT

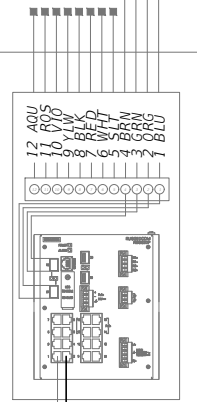
PROPOSED SPLICE
VAULT (SV-2).
STA. 40+20, 27' RT

PROPOSED SPLICE
VAULT (SV-3).
STA. 55+20, 21' RT

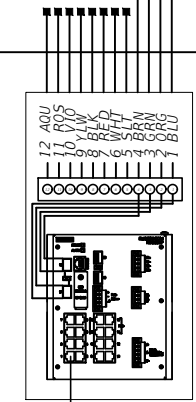


EXISTING 72 COUNT
SM FOC GOING TO
EAST ON US 301

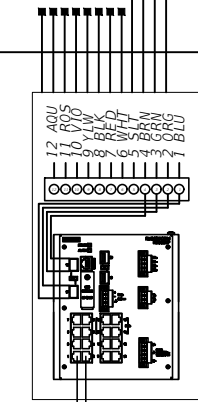
PROPOSED 72 COUNT SM BACKBONE CABLE
MATCH LINE 1 - SEE SPlicing DIAGRAM (2)



PROPOSED CCTV BY
OTHERS (SEE NOTE)



CCTV
STA. 21+04



CCTV
STA. 39+68

LEGEND:

- PROPOSED FIBER
- - - PROPOSED FIBER (BY OTHERS, SEE NOTE)
- - - EXISTING FIBER
- ◆ PROPOSED SPLICE
- ◆ PROPOSED SPLICE (BY OTHERS, SEE NOTE)
- ◆ PROPOSED BUFFER SPLICE (BY OTHERS, SEE NOTE)
- PROPOSED FIBER CAP & COIL
- PROPOSED BUFFER CAP & COIL
- PROPOSED CAP & COIL (BY OTHERS, SEE NOTE)
- C PROPOSED CCTV
- C PROPOSED CCTV (BY OTHERS, SEE NOTE)
- R PROPOSED MVDS
- SWITCH

NOTE:

SPLICE BOX, ASSOCIATED COMMUNICATIONS INFRASTRUCTURE
HAVE BEEN PROPOSED ON FPID: 201032-5-52-01. SEE NOTE ON
ITS PLAN (1), SHEET NUMBER IT-5.

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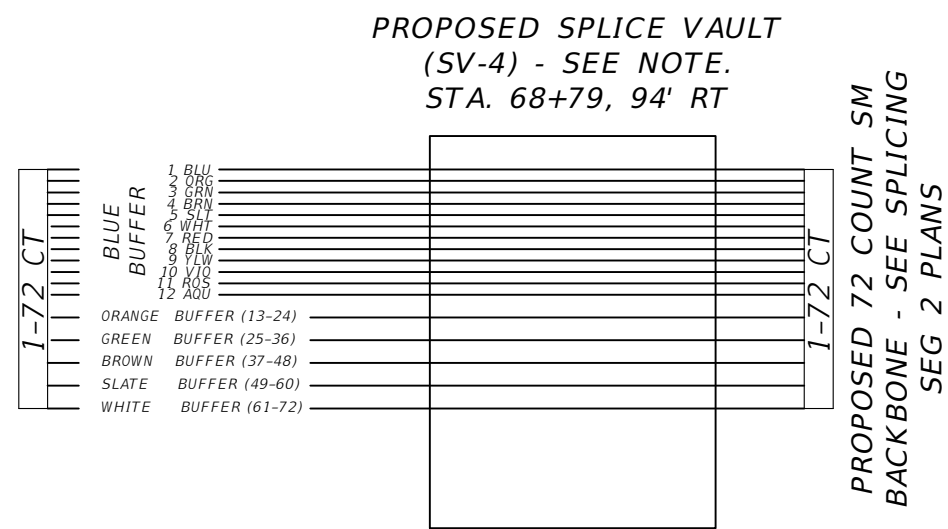
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NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	BURAK KONUK, P.E. LICENSE NUMBER 81581 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	SHEET NO.	
			SURVEY #	18-2238	DESIGNED	CT	6/6/22				
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/6/22				
			SCALE	NTS	CHECKED	BK	6/6/22				



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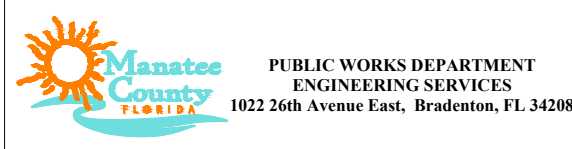
PROPOSED 72 COUNT SM BACKBONE CABLE
MATCH LINE 1 - SEE SPLICING DIAGRAM (1)



NOTE:
SPLICES TO BE PROPOSED ON SEGMENT 2 PLANS.

NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021
			SURVEY #	18-2238	DESIGNED	CT	6/6/22
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/6/22
			SCALE	NTS	CHECKED	BK	6/6/22

BURAK KONUK, P.E.
LICENSE NUMBER 81581
KISINGER CAMPO & ASSOCIATES CORP.
201 N. FRANKLIN STREET
SUITE 400
TAMPA, FL 33602

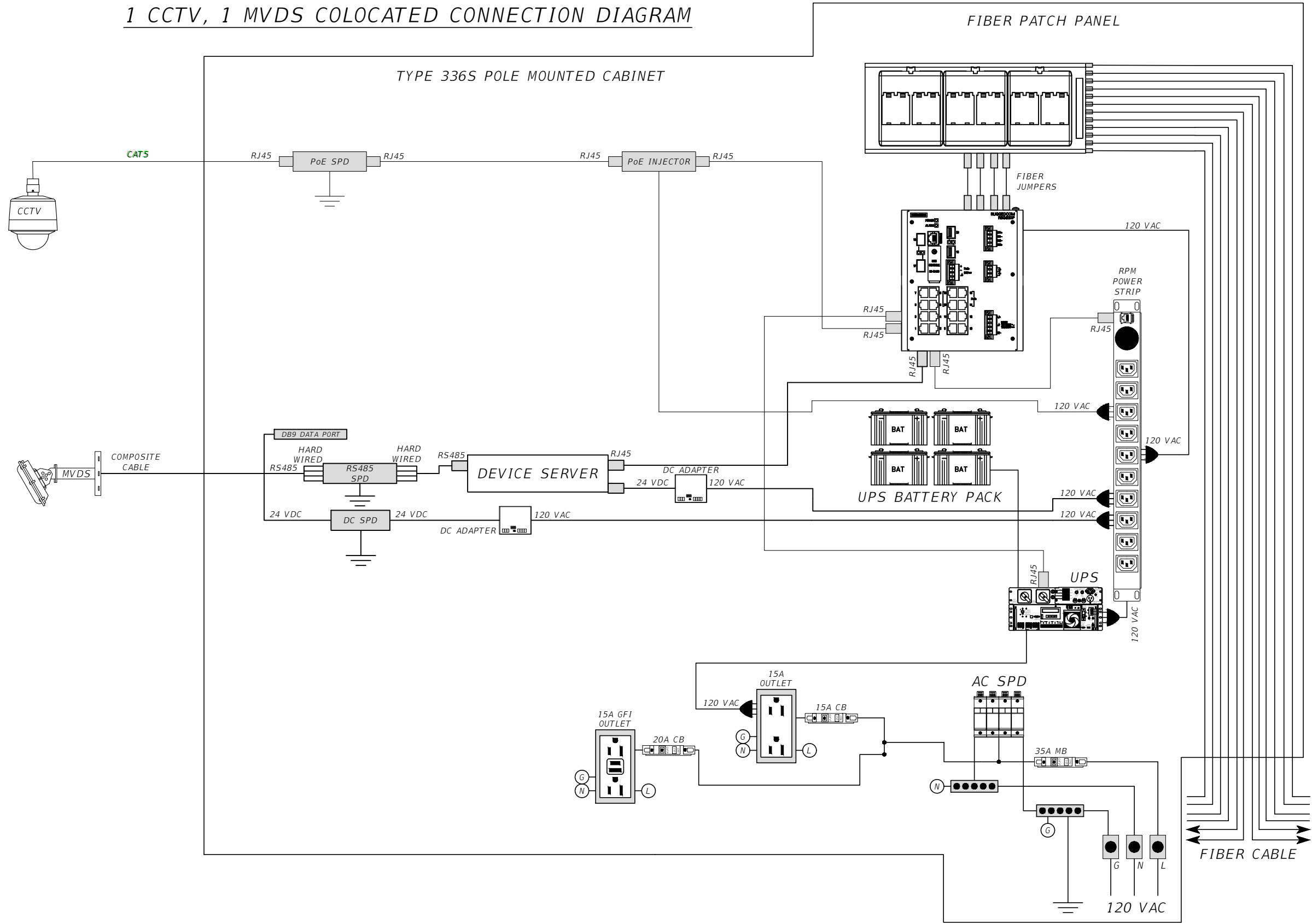


SPLICING DIARGAM (2)

SHEET NO.
IT-18

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1 CCTV, 1 MVDS COLOCATED CONNECTION DIAGRAM



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NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021
			SURVEY #	18-2238	DESIGNED	CT	6/1/22
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22
			SCALE	NTS	CHECKED	BK	6/1/22

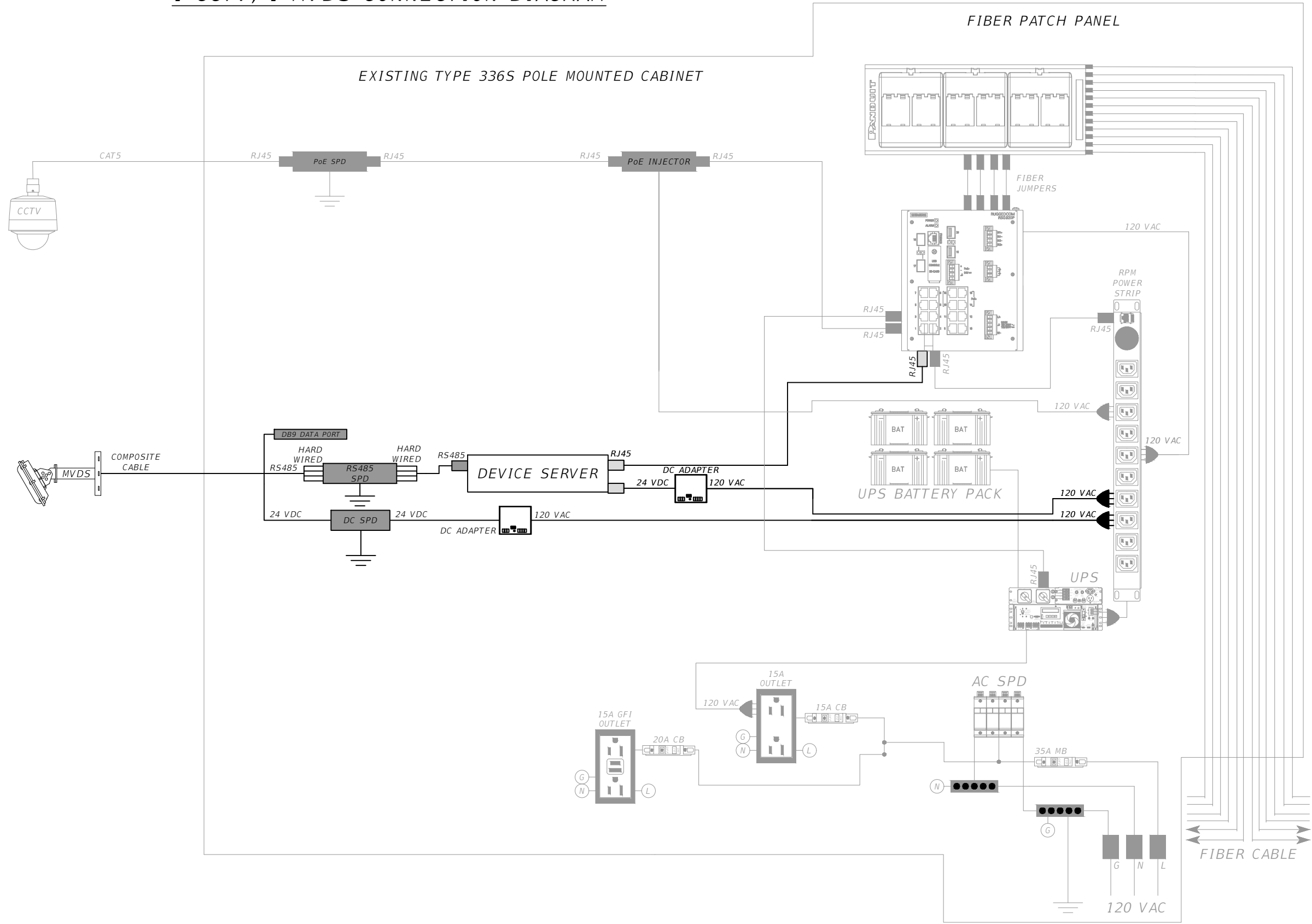
BURAK KONUK, P.E.
 LICENSE NUMBER 81581
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602



WIRING DIAGRAM (1)

SHEET NO.
IT-19

1 CCTV, 1 MVDS CONNECTION DIAGRAM



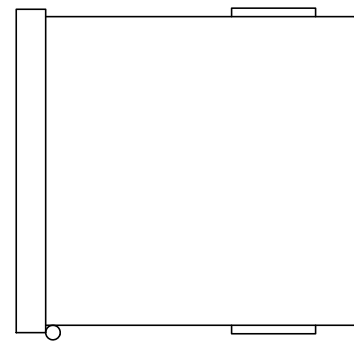
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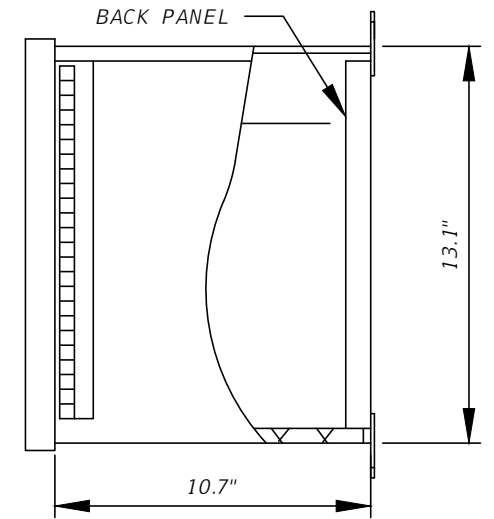
NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	BURAK KONUK, P.E. LICENSE NUMBER 81581 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	WIRING DIAGRAM (2)		SHEET NO.	
			SURVEY #	18-2238	DESIGNED	CT	6/1/22						
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22						
			SCALE	NTS	CHECKED	BK	6/1/22						IT-20

NOTES:

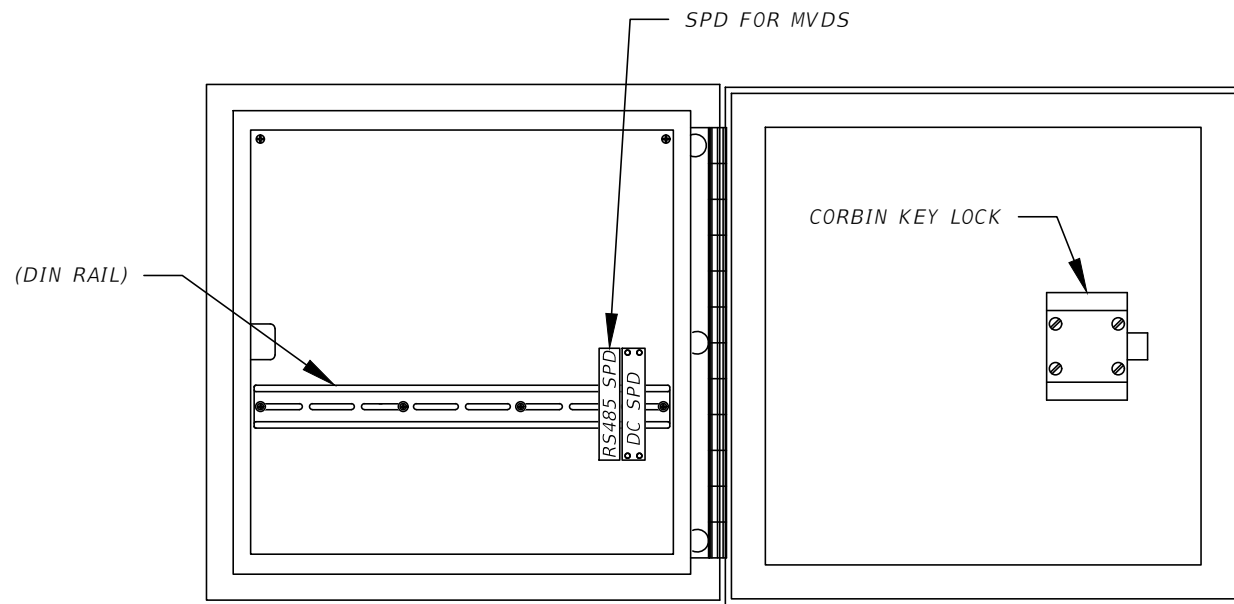
1. NEMA ENCLOSURE WITH DC SPD, RS485 SPD AND DIN RAIL TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
2. NEMA ENCLOSURE SHALL BE NEMA 3-R AND SIZED TO FIT ALL COMPONENTS AND SHALL PROVIDE ADEQUATE CIRCULATION AND WATERTIGHT TO PREVENT WATER INTRUSION.
3. CABINET MATERIAL SHALL BE MADE OF 5052-H32 ALUMINUM 0.125".
4. INTERIOR CABINET DIMENSIONS ARE: 13.125"H X 10.75"W X 10.5"D.
5. LOCK IS A #2 CORBIN.
6. TABS ARE FOR POLE MOUNT.



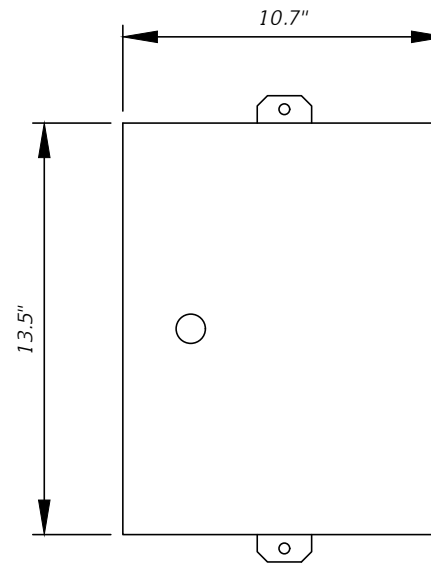
TOP VIEW



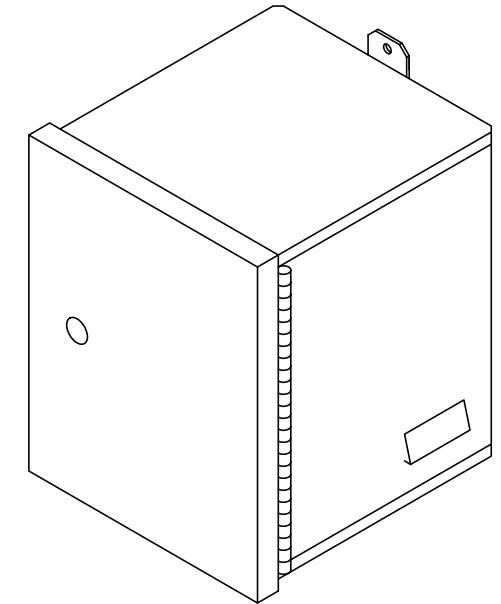
SIDE VIEW



(NEMA ENCLOSURE) 1-MVDS
CALIBRATION CABINET



FRONT VIEW



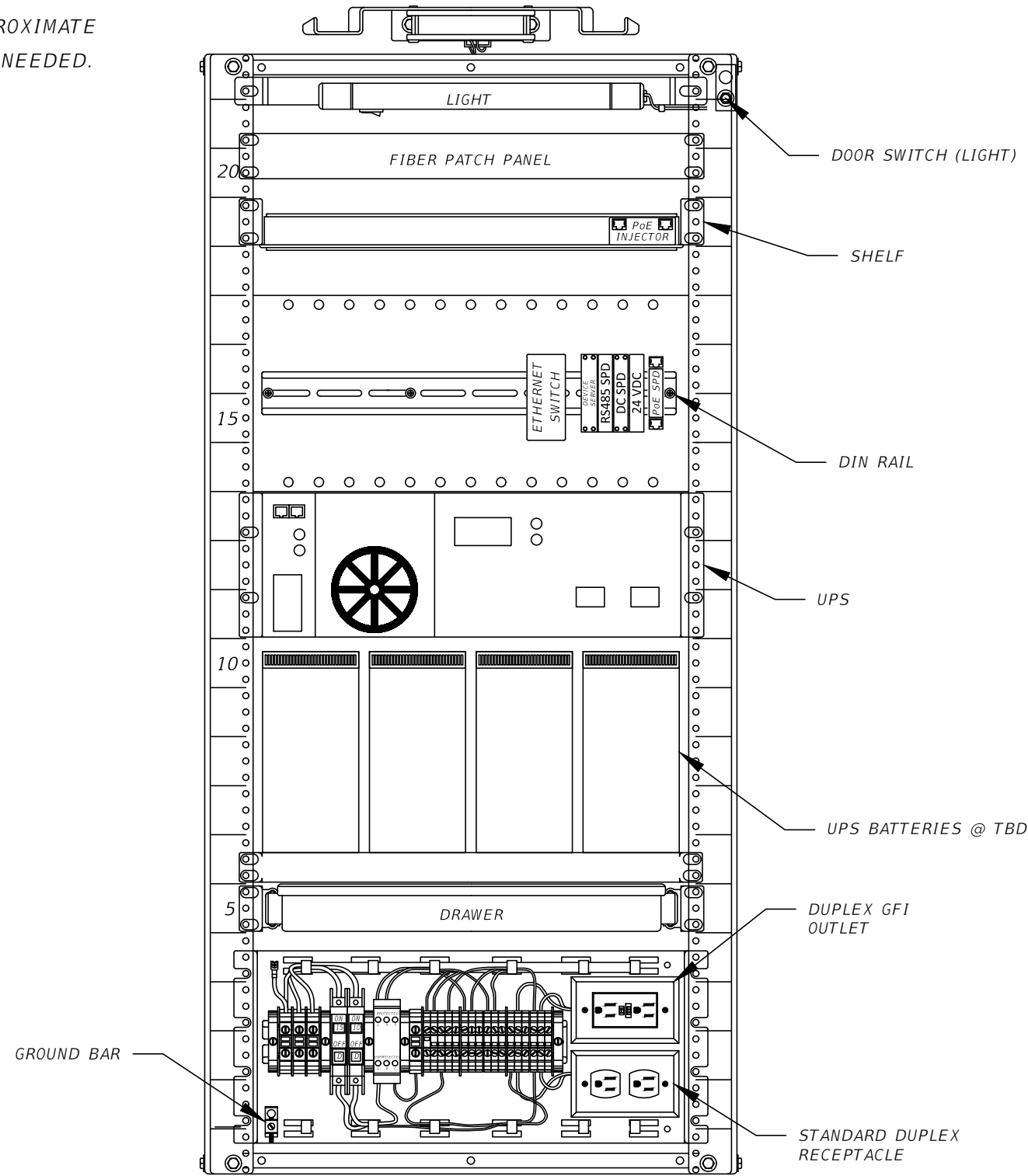
SURGE PROTECTION DEVICE (SPD) ENCLOSURE
N.T.S.

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NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	BURAK KONUK, P.E. LICENSE NUMBER 81581 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	NEMA 3-R CABINET DETAILS	SHEET NO.			
			SURVEY #	18-2238	DESIGNED	CT	6/1/22							
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22							
			SCALE	NTS	CHECKED	BK	6/1/22							
											IT-21			


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



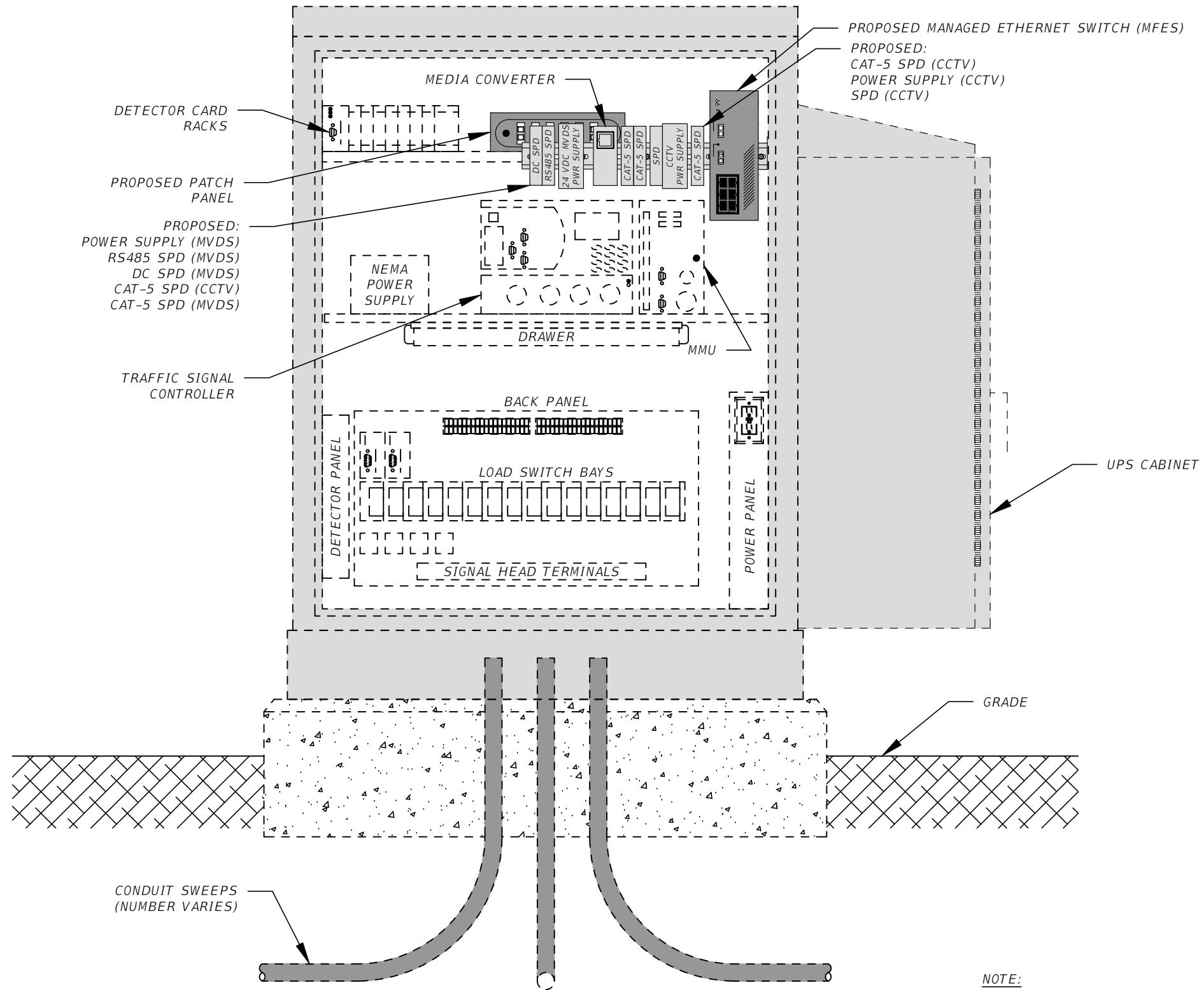
FRONT VIEW
(NO DOORS SHOWN)
336S CABINET - POLE MOUNTED
1-CCTV, 1-MVDS (COLOCATED)

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NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	BURAK KONUK, P.E. LICENSE NUMBER 81581 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	CABINET DETAIL (1)	SHEET NO.			
			SURVEY #	18-2238	DESIGNED	CT	6/1/22							
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22							
			SCALE	NTS	CHECKED	BK	6/1/22							IT-22

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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 #	6083160	SURVEYED	HYATT	5/2021
			SURVEY #	18-2238	DESIGNED	CT	6/1/22
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22
			SCALE	NTS	CHECKED	BK	6/1/22

BURAK KONUK, P.E.
 LICENSE NUMBER 81581
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602



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 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

CABINET DETAIL (2)

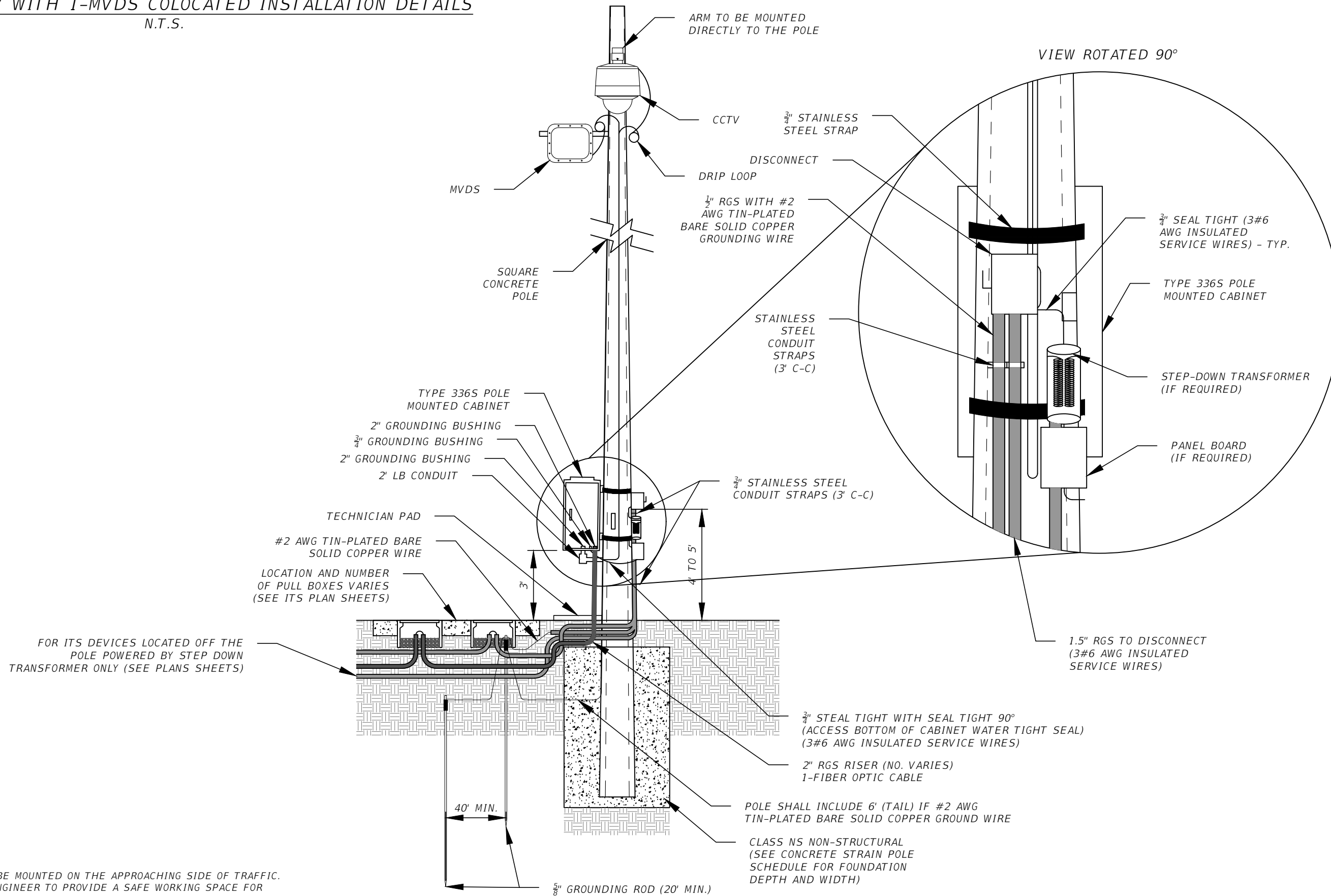
SHEET NO.

IT-23

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TYPICAL 1-CCTV WITH 1-MVDS COLOCATED INSTALLATION DETAILS

N.T.S.



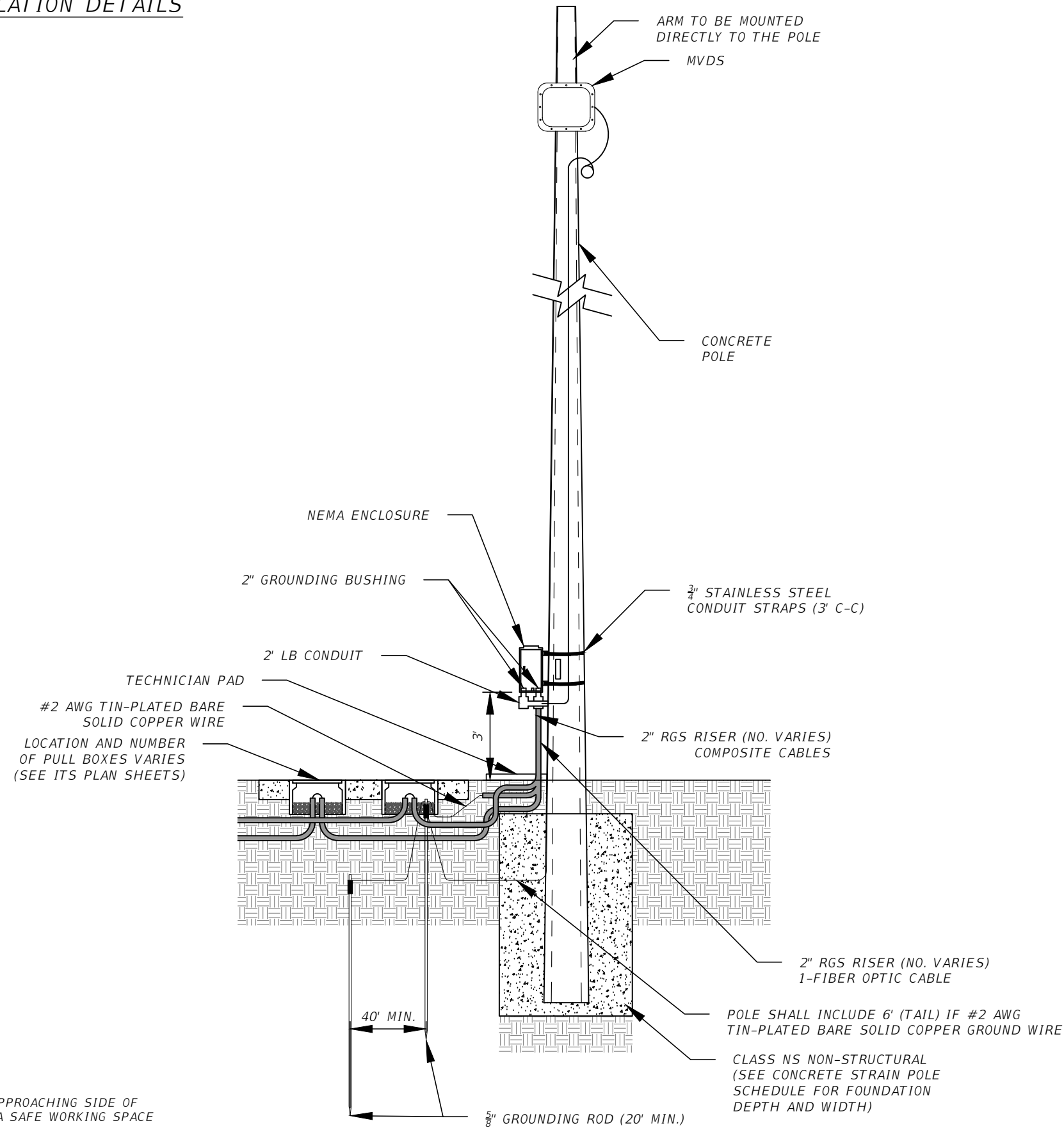
NOTE:
 THE CABINET SHALL NEVER BE MOUNTED ON THE APPROACHING SIDE OF TRAFFIC.
 IT IS THE INTENT OF THE ENGINEER TO PROVIDE A SAFE WORKING SPACE FOR
 TECHNICIANS.

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NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	BURAK KONUK, P.E. LICENSE NUMBER 81581 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	6/1/22						
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22						
			SCALE	NTS	CHECKED	BK	6/1/22						IT-24

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

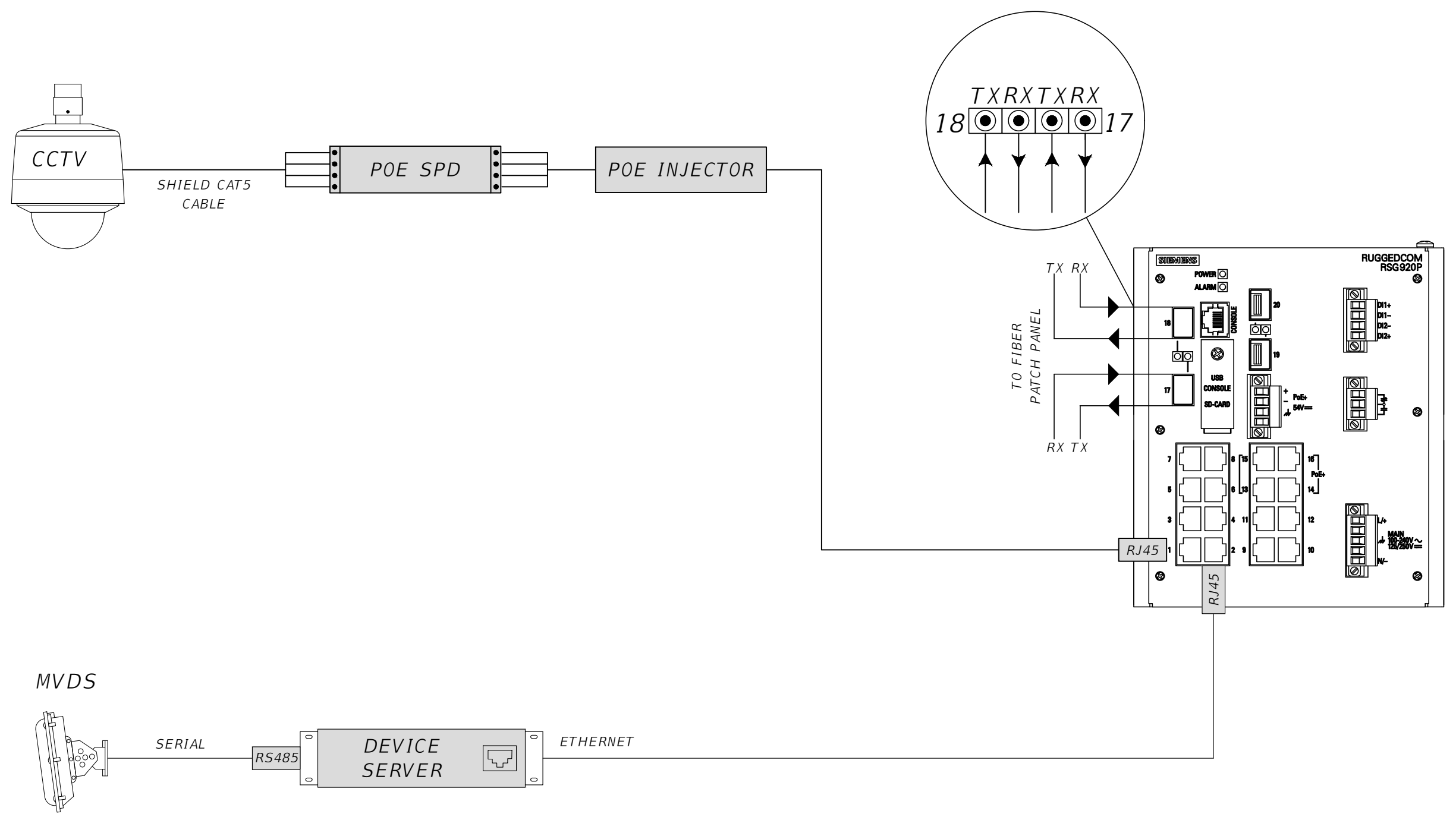


NOTE:
THE NEMA ENCLOSURE SHALL NEVER BE MOUNTED ON THE APPROACHING SIDE OF TRAFFIC. IT IS THE INTENT OF THE ENGINEER TO PROVIDE A SAFE WORKING SPACE FOR TECHNICIANS.

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NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	BURAK KONUK, P.E. LICENSE NUMBER 81581 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	6/1/22			ITS MOUNTING DETAIL (2)	IT-25
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22				
			SCALE	NTS	CHECKED	BK	6/1/22				



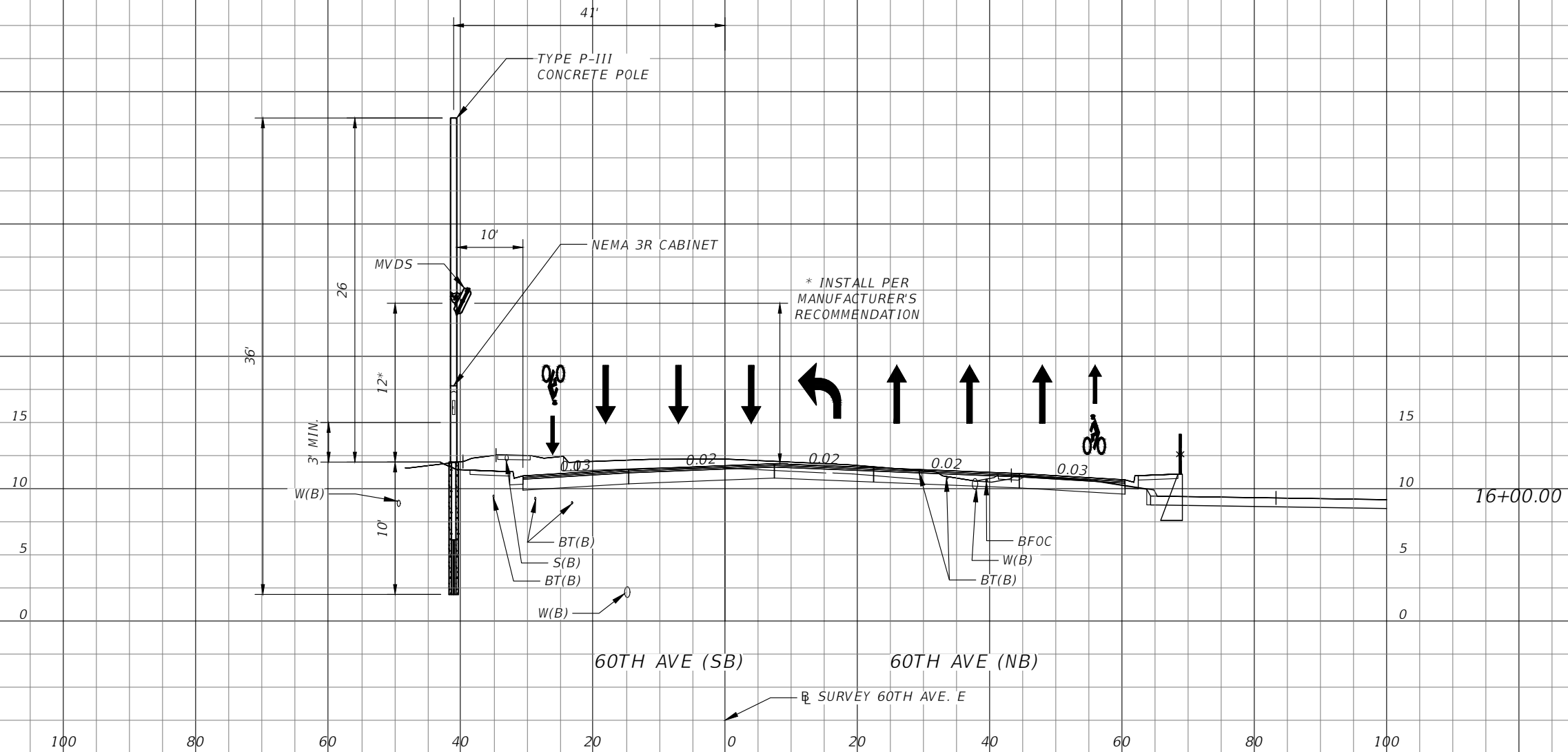
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NUMBER	DESCRIPTION	DATE	PROJECT #	6083160	SURVEYED	HYATT	5/2021	BURAK KONUK, P.E. LICENSE NUMBER 81581 KISINGER CAMPO & ASSOCIATES CORP. 201 N. FRANKLIN STREET SUITE 400 TAMPA, FL 33602	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	MANAGED FIELD ETHERNET SWITCH PORT ASSIGNMENT DETAIL		SHEET NO.
			SURVEY #	18-2238	DESIGNED	CT	6/1/22					
			SEC./TWN./RGE	4-34S-18E	DRAWN	CT	6/1/22					
			SCALE	NTS	CHECKED	BK	6/1/22					IT-26

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MVDS #1
 STA. 16+00.00
 SURVEY 60TH AVE. E
 SCALE: 1" = 20' HORIZ.
 1" = 10' VERT.

NUMBER	DESCRIPTION	DATE

PROJECT #	6083160	SURVEYED	HYATT	DATE	5/2021
SURVEY #	18-2238	DESIGNED	CT	DATE	6/1/22
SEC./TWN./RGE	4-34S-18E	DRAWN	CT	DATE	6/1/22
SCALE	NTS	CHECKED	BK	DATE	6/1/22

BURAK KONUK, P.E.
 LICENSE NUMBER 81581
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602



Manatee County
 FLORIDA

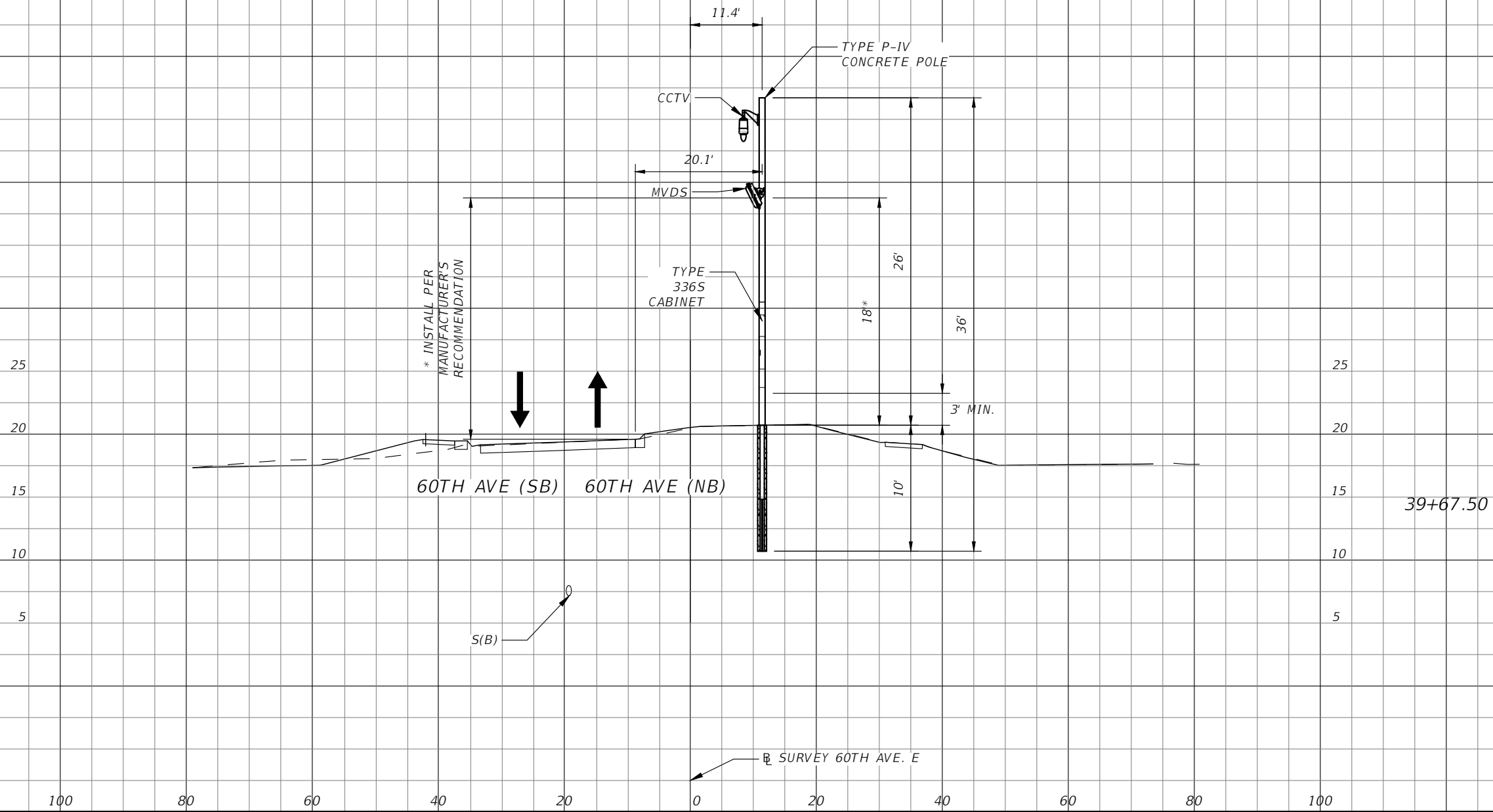
PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East, Bradenton, FL 34208

ITS CROSS SECTION (1)

SHEET NO.
IT-27

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MVDS #1A
 STA. 39+67.50
 SURVEY 60TH AVE. E
 SCALE: 1" = 20' HORIZ.
 1" = 10' VERT.

NUMBER	DESCRIPTION	DATE
	PROJECT #	6083160
	SURVEYED	HYATT 5/2021
	SURVEY #	18-2238
	DESIGNED	CT 6/1/22
	SEC./TWN./RGE	4-34S-18E
	DRAWN	CT 6/1/22
	SCALE	NTS
	CHECKED	BK 6/1/22

BURAK KONUK, P.E.
 LICENSE NUMBER 81581
 KISINGER CAMPO & ASSOCIATES CORP.
 201 N. FRANKLIN STREET
 SUITE 400
 TAMPA, FL 33602



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

ITS CROSS SECTION (2)

SHEET NO.
 IT-28

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