MANATEE COUNTY

CONTRACT PLANS

INDEX OF ITS PLANS

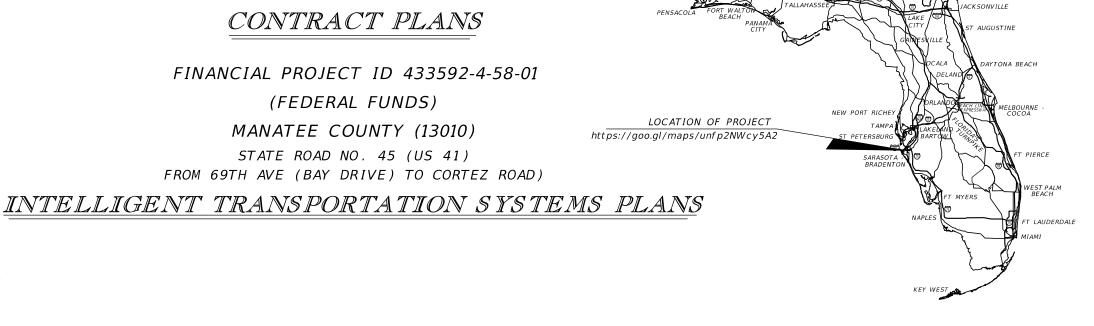
SHEET NO. SHEET DESCRIPTION

IT-1 KEY SHEET IT-2 SIGNATURE SHEET IT-3 TABULATION OF QUANTITIES IT-4 PROJECT LAYOUT IT-5 GENERAL NOTES IT-6 - IT-9 ITS PLAN SHEET

IT-10 SPLICING DIAGRAM IT-11 BLUETOOTH DEVICE

MOUNTING DETAIL IT-12 CCTV CAMERA MOUNTING DETAIL IT-13 MVDS INSTALLATION DETAIL IT-14 MAINTENANCE OF COMMUNICATIONS IT-15 - IT-16 MVDS POLE SPREAD FOOTING DETAILS

FINANCIAL PROJECT ID 433592-4-58-01 (FEDERAL FUNDS) MANATEE COUNTY (13010) STATE ROAD NO. 45 (US 41) FROM 69TH AVE (BAY DRIVE) TO CORTEZ ROAD)



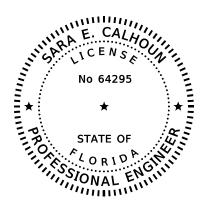
INTELLIGENT TRANSPORTATION SYSTEMS PLANS ENGINEER OF RECORD:

SARA E. CALHOUN, P.E. NO.: 64295 6914 WEST LINEBAUGH AVENUE TAMPA, FL 33625 (813) 264-2508 CONTRACT NO.: CA667 VENDOR NO.: 46-2667875

FDOT PROJECT MANAGER:

AMY BLAIR, P.E.

CONSTRUCTION	FISCAL	SHEET
CONTRACT NO.	YEAR	NO.
22-TA004373DJ	23	IT-1



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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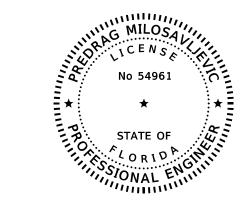
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VIBE 6914 W. LINEBAUGH AVENUE TAMPA, FL 33625 SARA E. CALHOUN, P.E. NO. 64295

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

ITS PLANS

SHEET NO.	SHEET DESCRIPTION
IT-1	KEY SHEET
IT-2	SIGNATURE SHEET
IT-3	TABULATION OF QUANTITIES
IT-4	PROJECT LAYOUT
IT-5	GENERAL NOTES
IT-6 - IT-9	ITS PLAN SHEET
IT-10	SPLICING DIAGRAM
IT-11	BLUETOOTH DEVICE MOUNTING DETAIL
IT-12	CCTV CAMERA MOUNTING DETAIL
IT-13	MVDS INSTALLATION DETAIL
IT-14	MAINTENANCE OF COMMUNICATIONS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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SCALAR CONSULTING GROUP INC. 4152 W. BLUE HERON BOULEVARD, SUITE 119 RIVIERA BEACH, FL 33404 PREDRAG MILOSAVLJEVIC, P.E. NO. 54961

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

ITS PLANS

SHEET NO. SHEET DESCRIPTION

IT-2 SIGNATURE SHEET

IT-15 - IT-16 MVDS POLE SPREAD FOOTING DETAILS

		REVISIONS		SARA E. CALHOUN. P.E.
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 64295
				VIBE
				6914 W. LINEBAUGH AVENUE
				TAMPA, FL 33625
				(813) 264-2508

VivekKoneru

MANATEE COUNTY					
ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
SD 15	MANATEE	133502-1-58-01			

SIGNATURE SHEET

SHEET NO.

IT-2

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TABULATION OF QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	SHEET NUMBERS								TOTAL THIS	GRAND TOTAL	
NO.	DESCRIPTION	UNII			- 7	IT -		IT - 9		_	,	SHEET	TOTAL
			PLAN	FINAL PLAN	FINAL P	LAN F	FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FIN
1 - 1 - 1	ITSFM SUBSURFACE DOCUMENTATION- PROJECT LENGTH	M I										2.913	2.913
-2-1	ITSFM LOCATION DOCUMENTATION- INTERSECTION	EA		1 1		1		1				4	4
-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	6	5 24		19		10				59	59
	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	5	304								309	309
	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	20									25	25
	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF		120		263		120				503	503
	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA		4		4		4				12	12
-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA		12		12		12				36	36
- 3 - 14	FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA		1		1		1				3	3
- 3 - 16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA		1		1		1				3	3
- 3 - 51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA		1		1		1				3	3
- 6	FIBER OPTIC CABLE LOCATOR	DA										200	200
	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF		511								511	511
	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	i	1 4		3						8	8
	ALUMINUM POLE- INDEX 17900/695-001, FURNISH & INSTALL, 15'	EA		1								1	1
	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, CABINET EQUIPMENT	EA		1								1	1
	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA		1								1	1
	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	1	1								1	1
	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	î	1								1	1
	SMALL EQUIPMENT ENCLOSURE, FURNISH AND INSTALL, LESS THAN 10"W X 13"H X 11" D	EA		1								1	1
	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA				1						1	1
	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA		1		1		1				3	3
2 - 1	DEVICE SERVER, FURNISH & INSTALL	EA		1									1
				1				1	1 T				

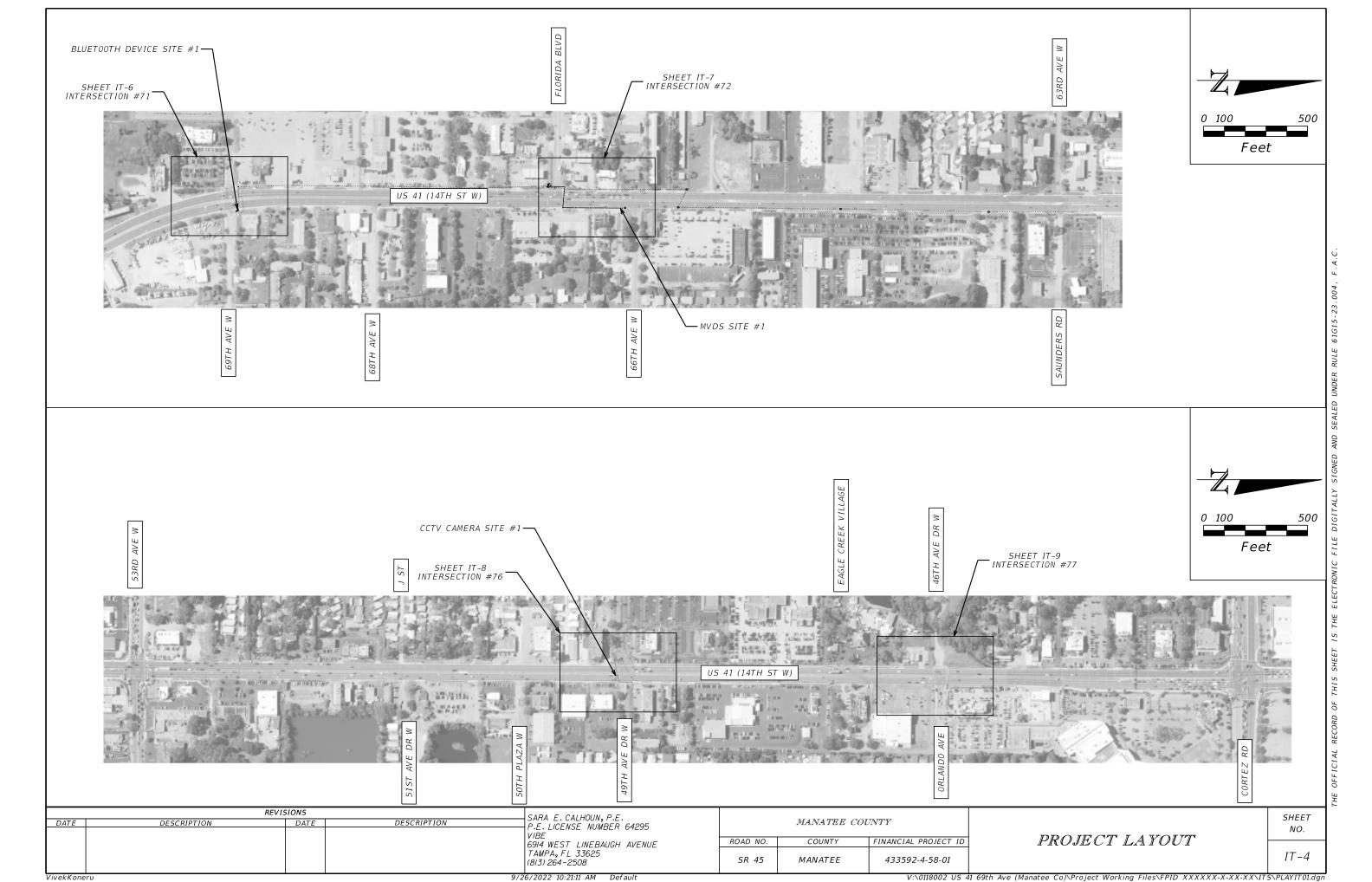
	SARA E. CALHOUN. P.E.						
DATE	DATE DESCRIPTION DATE DESCRIPTION						
				P.E. LICENSE NUMBER 64295			
1				6914 WEST LINEBAUGH AVENU			
1							
				TAMPA, FL 33625			
				1 <i>(813) 264-2508</i>			

MANATEE COUNTY						
ROAD NO.	COUNTY	FINANCIAL PROJECT ID				
SR 45	MANATEE	433592-4-58-01				

TABULATION OF QUANTITIES

SHEET NO.

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1. A COPY OF THE COMPLETED ITSFM DATA SHALL BE SUBMITTED FOR REVIEW AT LEAST 4 WEEKS PRIOR TO FINAL ACCEPTANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL TRAINING AND CERTIFICATIONS NECESSARY TO COLLECT AND SUBMIT THE ITSFM DATA. DOCUMENTATION SHOWING THE NECESSARY TRAINING AND CERTIFICATIONS HAVE BEEN OBTAINED AND/OR SCHEDULED SHALL BE SUBMITTED WITHIN 2 WEEKS OF BEGINNING WORK ON THE ATMS INFRASTRUCTURE. CONTACT D1-ITSFM@DOT.STATE.FL.US FOR ITSFM INFORMATION.

AT MINIMUM, THE FOLLOWING ITSFM ATTRIBUTE FORMS SHALL BE COMPLETED:

TSFM03

ITSFM034

ITSFM035

ITSFM036

ITSFM056

ITSFM057

AT MINIMUM, THE FOLLOWING ITSFM FEATURE IMPORT TEMPLATES SHALL BE COMPLETED:

ITSFM5002

ITSFM5006

2. AT THE COMPLETION OF THE PROJECT, PROVIDE AS-BUILT PLANS IN ELECTRONIC FORM (PDF) TO:

FDOT TRAFFIC OPERATIONS

JUSTIN MERRITT, TSM&O FMS SPECIALIST IV

801 N. BROADWAY AVE

P.O. BOX 1249

BARTOW, FL 33830-1249

EMAIL: JUSTIN.MERRITT@DOT.STATE.FL.US

PHONE: 941-708-4426

PAY ITEM NOTES:

633-1-121: THIS PAY ITEM SHALL INCLUDE 12-COUNT FIBER OPTIC CABLE.

633-8-1: FURNISH AND INSTALL ALL POWER AND COMMUNICATION CABLES PER MANUFACTURER'S RECOMMENDATION. ENSURE THAT THESE CABLES COMPLY WITH NEC, SPECIFICATIONS, AND ALL OTHER LOCAL CODE REQUIREMENTS.

660-3-11 AND 660-3-12: THE CONTRACTOR SHALL BE REQUIRED TO INTEGRATE THE MVDS INTO THE COUNTY'S EXISTING ATMS AND CALIBRATE THE MVDS UNITS IN THE PRESENCE OF COUNTY STAFF. THE MVDS SHALL BE FUNCTIONALLY COMPATIBLE WITH THE SYSTEM EQUIPMENT AND SOFTWARE CURRENTLY OPERATING ON THE MANATEE COUNTY ATMS.

660-6-121 AND 660-6-122: THE CONTRACTOR SHALL BE REQUIRED TO INTEGRATE THE BLUETOOTH READER INTO THE COUNTY'S EXISTING ATMS. THE BLUETOOTH READER SHALL BE FUNCTIONALLY COMPATIBLE WITH THE SYSTEM EQUIPMENT AND SOFTWARE CURRENTLY OPERATING ON THE MANATEE COUNTY ATMS. ALL SUPPLEMENTAL INTERFACE HARDWARE, CABLING, AND OTHER SYSTEM COMPONENTS ARE CONSIDERED INCIDENTAL TO THE CABINET EQUIPMENT.

682-1-113: THE CONTRACTOR SHALL BE REQUIRED TO INTEGRATE THE CCTV CAMERA INTO THE COUNTY'S EXISTING ATMS. THE CCTV CAMERA SHALL BE FUNCTIONALLY COMPATIBLE WITH THE SYSTEM EQUIPMENT AND SOFTWARE CURRENTLY OPERATING ON THE MANATEE COUNTY ATMS.

684-1-1: THE ETHERNET SWITCH SHALL BE FUNCTIONALLY COMPATIBLE WITH THE SYSTEM EQUIPMENT AND SOFTWARE CURRENTLY OPERATING ON THE MANATEE COUNTY ATMS.

REVISIONS				SARA E. CALHOUN. P.E.			
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 64295	MANATEE COUNTY		
				VIRE			
l				6914 WEST LINEBAUGH AVENUE	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
				TAMPA, FL 33625 (813) 264-2508	SR 45	MANATEE	433592-4-58-01

GENERAL NOTES

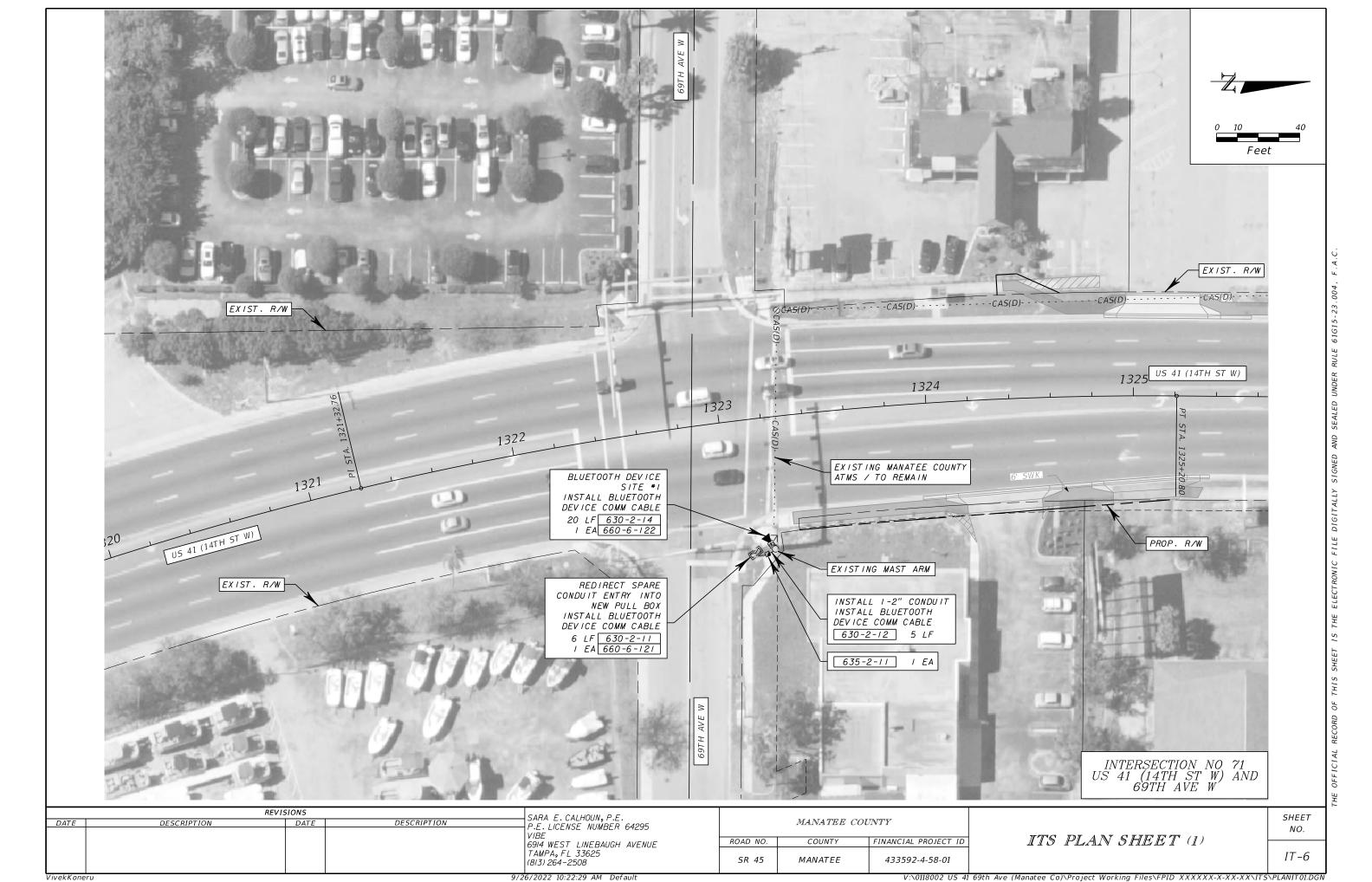
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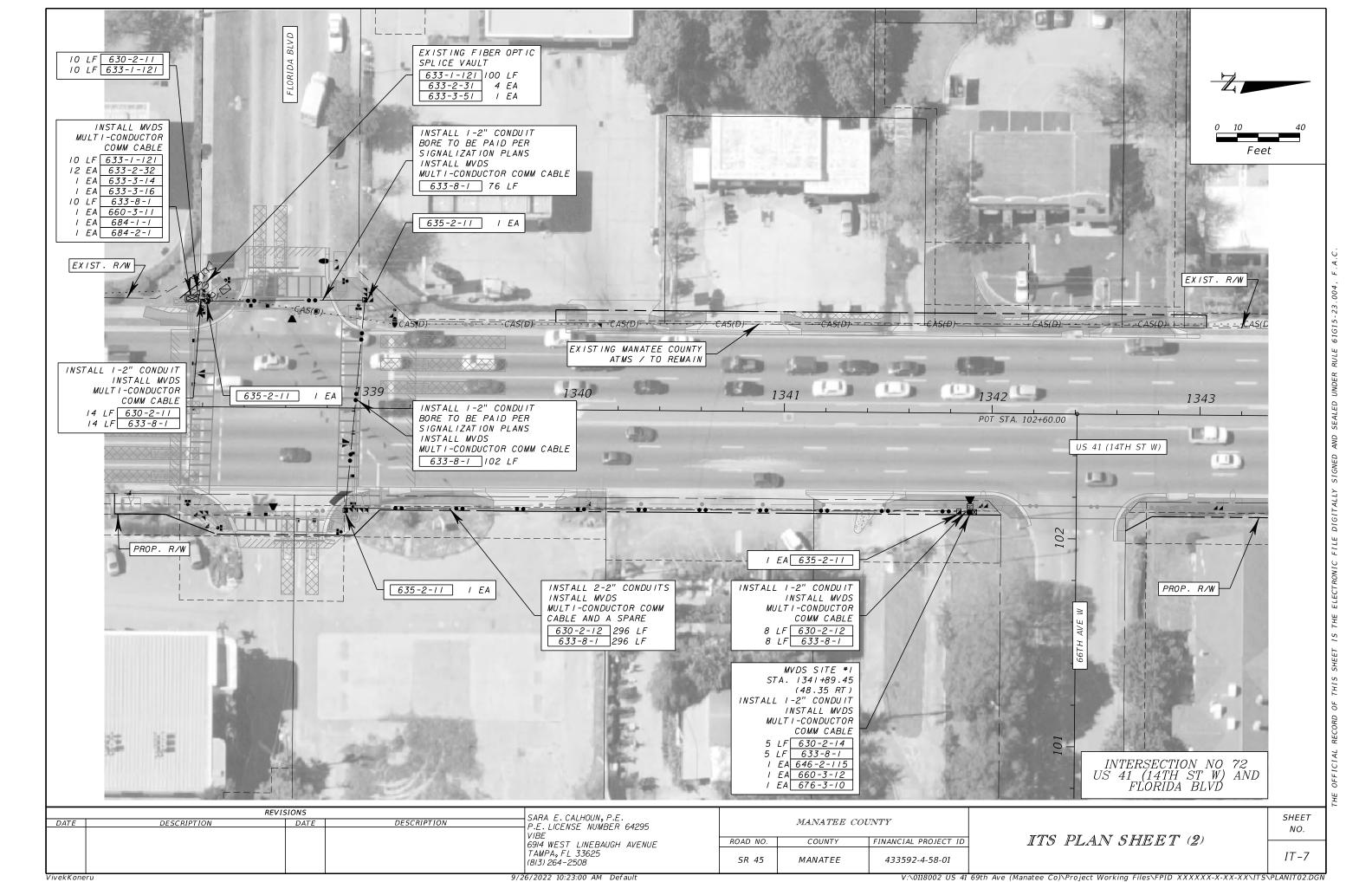
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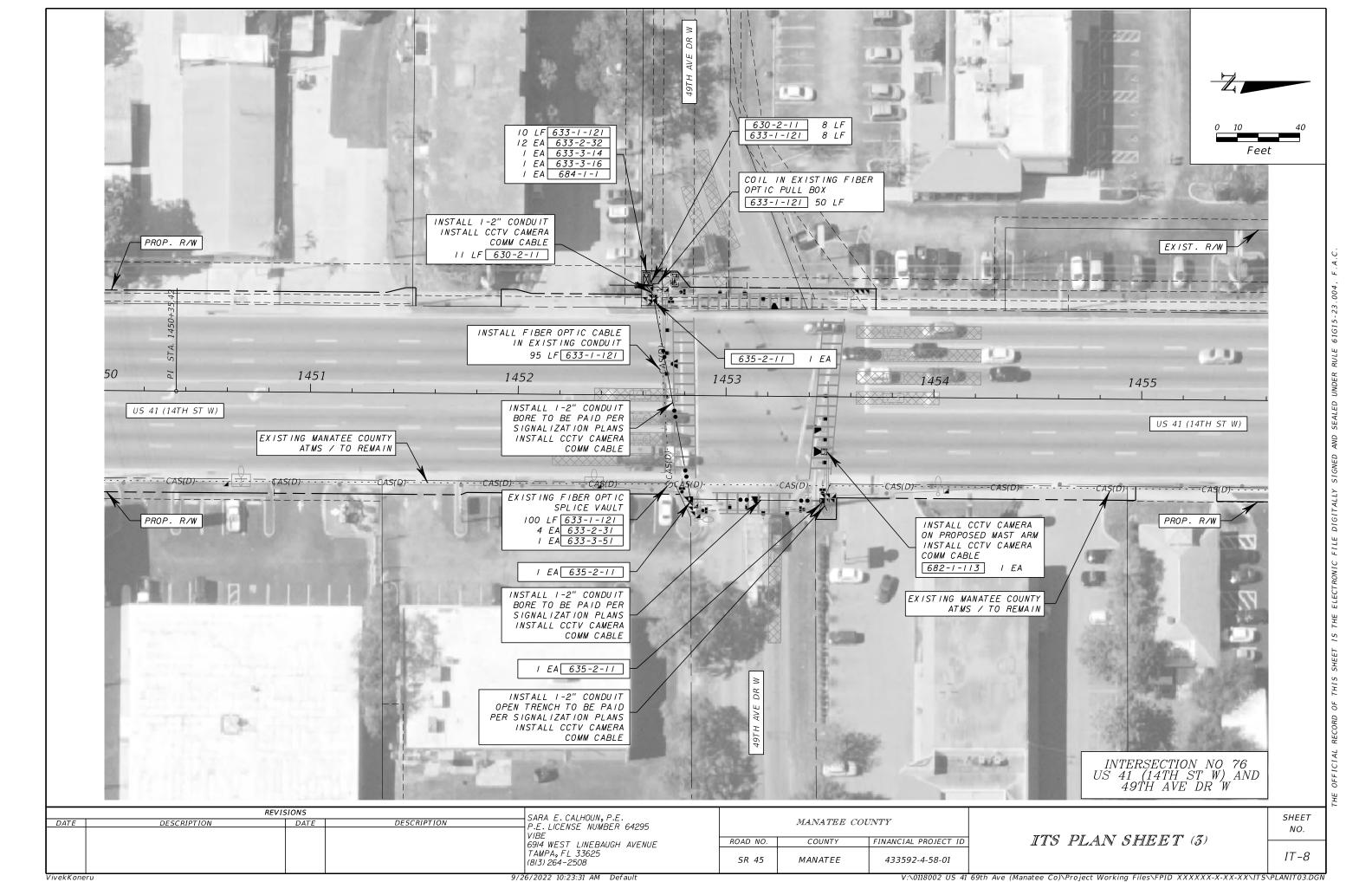
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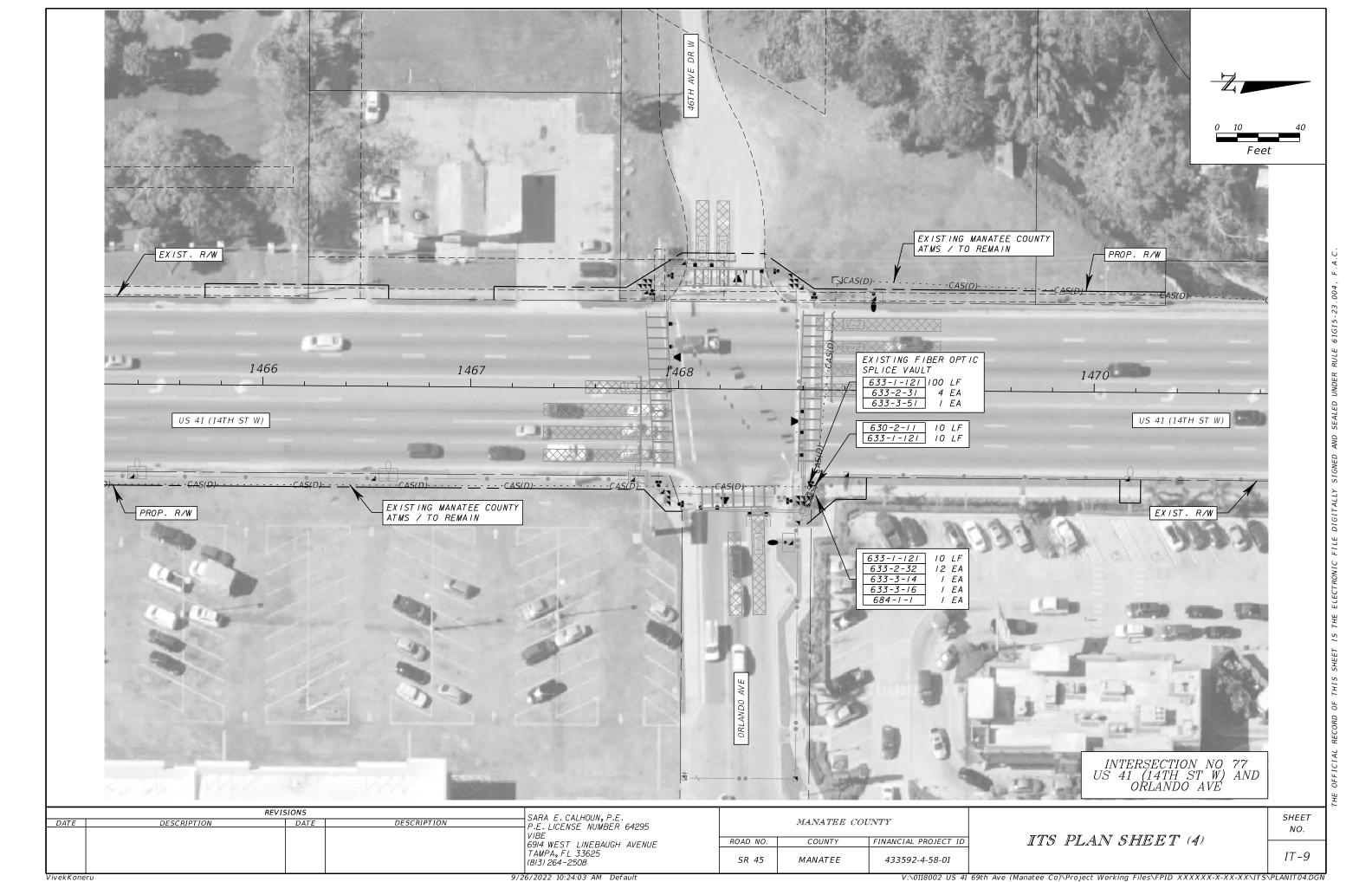
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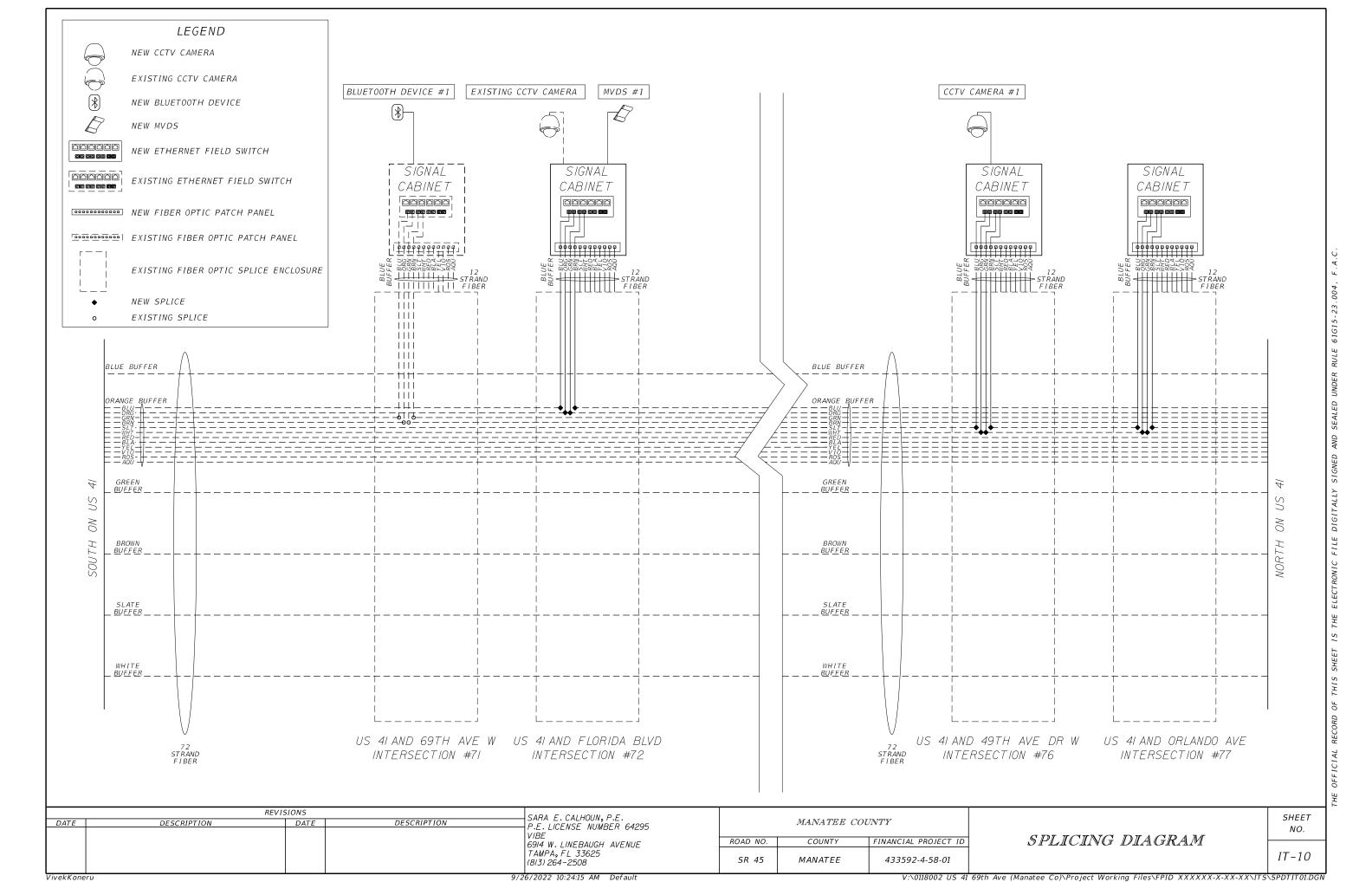
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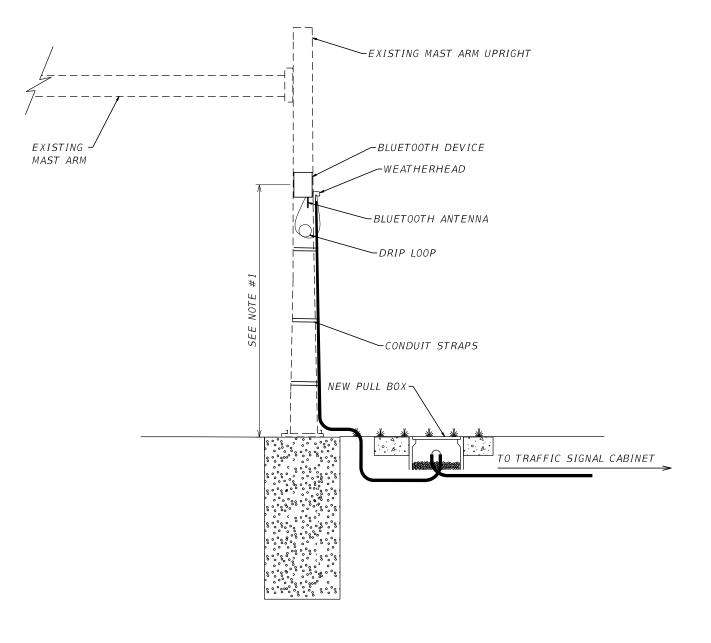












BLUETOOTH DEVICE MOUNTING ON EXISTING MAST ARM N.T.S

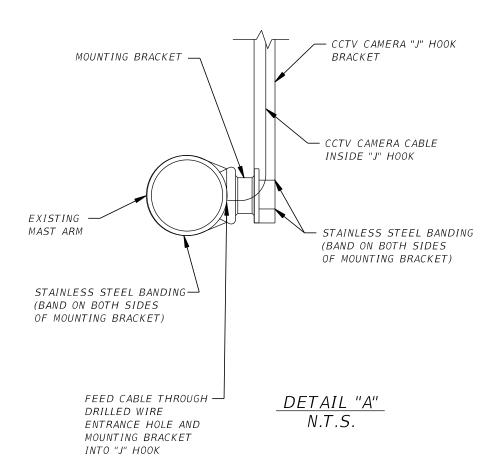
NOTES:

- 1. MOUNTING HEIGHT OF THE BLUETOOTH DEVICE SHOULD BE PER MANUFACTURER'S RECOMMENDATIONS.
- 2. COORDINATE THE LOCATION AND INSTALLATION OF ALL REQUIRED IN-CABINET EQUIPMENT WITH MANATEE COUNTY

	REVI.	SIONS		SARA E. CALHOUN. P.E.			
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 64295		MANATEE CO	UNTY
				VIBE			
				6914 W. LINEBAUGH AVENUE	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
				TAMPA, FL 33625 (813) 264-2508	SR 45	MANATEE	433592-4-58-01

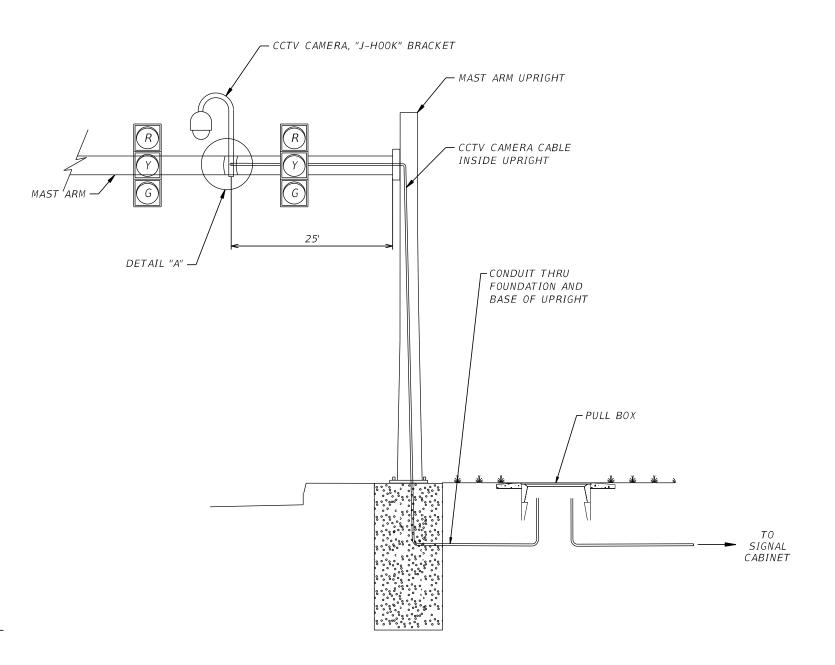
BLUETOOTH DEVICE MOUNTING DETAIL SHEET NO. IT-11

11-11





- 1. THE CONTRACTOR SHALL MOUNT THE "J HOOK" BRACKET AS HIGH AS POSSIBLE SO THAT IT STILL SITS FIRMLY IN THE MOUNTING HARDWARE BRACKET. THE ATTACHMENT SHALL BE INSPECTED BY THE ENGINEER BEFORE THE CCTV CAMERA IS INSTALLED.
- 2. THE CONTRACTOR SHALL FIELD DRILL A HOLE IN THE MAST ARM OF A MINIMUM DIAMETER TO ACCOMMODATE THE CCTV COMPOSITE CABLE.
- 3. THE CONTRACTOR SHALL COLD GALVANIZE THE DRILLED HOLE AND PLACE A WEATHER-TIGHT GROMMIT IN THE HOLE PRIOR TO RUNNING THE CCTV COMPOSITE CABLE INTO THE ARM.
- 4. THE CONTRACTOR SHALL TOUCH UP THE MAST ARM PAINT DUE TO SCRATCHES OR CHIPS DURING THE INSTALLATION OF THE CCTV CAMERA AND COMPOSITE CABLE.
- 5. THE COST FOR LABOR AND MATERIALS FOR TOUCH UP AND GROMMITS SHALL BE INCLUDED UNDER THE CCTV PAY ITEM 682-1-113.



CCTV CAMERA MOUNTING ON PROPOSED MAST ARM N.T.S

	SARA E. CALHOUN, P.E.		
DATE	DESCRIPTION	P.E. LICENSE NUMBER 64295	
			VIBE 6914 W. LINEBAUGH AVENUE
			TAMPA, FL 33625
			(813) 264-2508

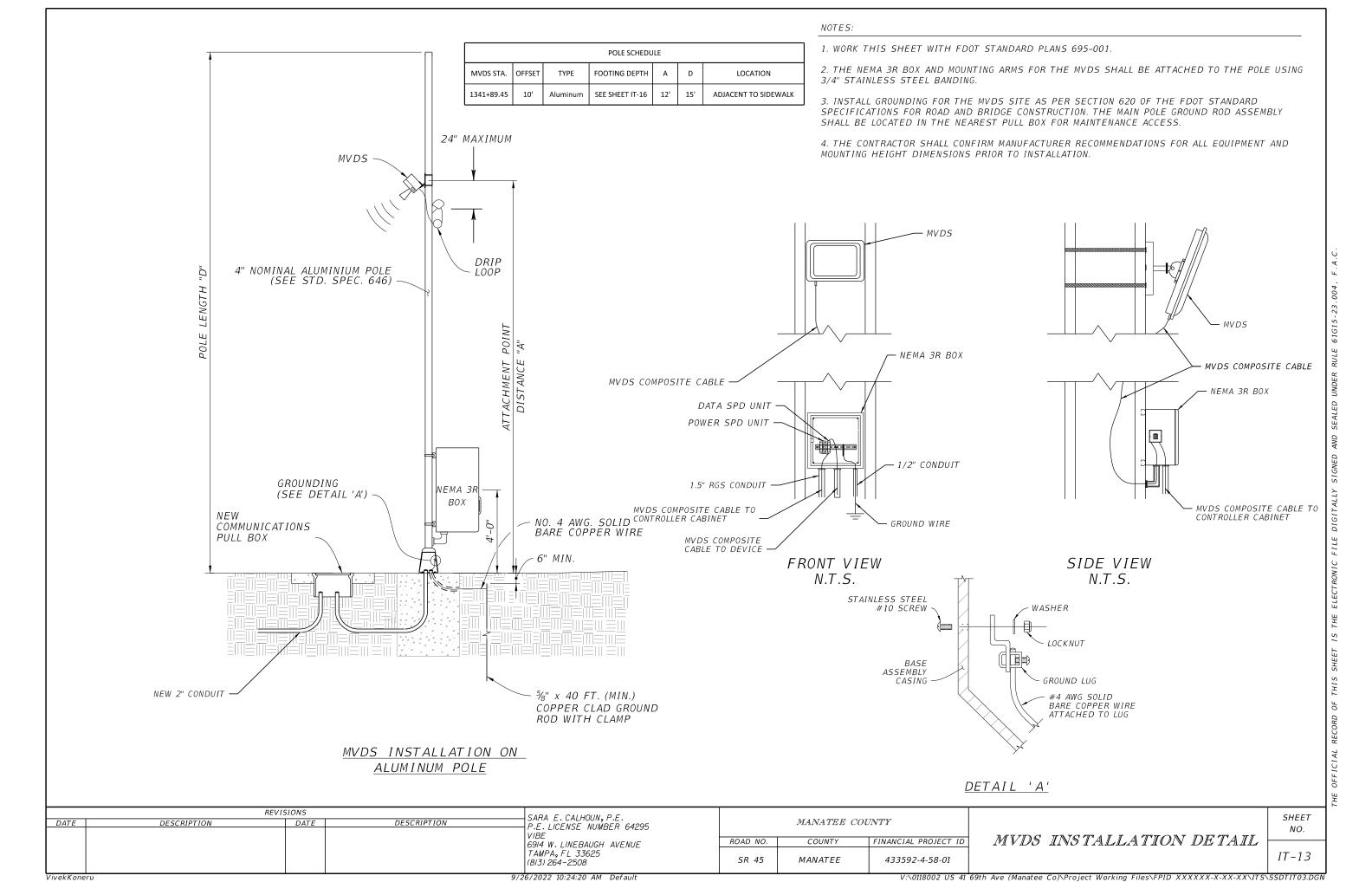
MANATEE COUNTY ROAD NO. COUNTY FINANCIAL PROJECT ID SR 45 MANATEE 433592-4-58-01

CCTV CAMERA MOUNTING DETAIL

SHEET NO. IT-12

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MAINTENANCE OF COMMUNICATIONS (MOC):

- 1. FOR ALL EXISTING COMMUNICATIONS OUTSIDE THE PROJECT LIMITS AFFECTED BY PROPOSED WORK IN THIS PROJECT, COORDINATION WITH MANATEE COUNTY SHALL BE COMPLETED TO ENSURE CONTINUITY AND WORKING CONDITION OF THE COMMUNICATIONS.
- THE CONTRACTOR IS TO SUBMIT A MOC PLAN TO THE DEPARTMENT AND/OR COUNTY FOR APPROVAL. THE MOC PLAN IS TO BE SUBMITTED TO THE DEPARTMENT AT LEAST FOUR (4) WEEKS PRIOR TO INTERRUPTING THE EXISTING ATMS COMMUNICATIONS NETWORK. THE MOC PLAN SHALL BE DEFINED AND PROCESSED AS A SHOP DRAWING PER CHAPTER 267 OF THE FDM. THE MOC PLAN SHALL DOCUMENT THE PHASED CUTOVER FOR INSTALLING AND REMOVING ITS INFRASTRUCTURE AS DESIGNATED IN THESE PLANS, AS WELL AS THE TESTING PROCEDURES WITH TESTING LOCATIONS. THE TESTING LOCATIONS CAN BE COORDINATED WITH MANATEE COUNTY. THE DOWNTIME OF THE ITS INFRASTRUCTURE SHALL BE KEPT TO A MINIMUM. THE MAXIMUM ALLOWABLE OUTAGE TIMES FOR THE ITS DEVICES ARE:

ITEM	MAXIMUM ALLOWABLE OUTAGE TIMES
ITS COMMUNICATIONS SUBSYSTEM (BACKBONE)	72 HOURS
ITS COMMUNICATIONS SUBSYSTEM (DROPS)	1 WEEK

MOC PHASING:

PHASE I: INSTALL NEW CONDUITS AND PULL BOXES AS SHOWN IN THE PLANS.

PHASE II: INSTALL NEW FIBER OPTIC CABLE AND TERMINATE TO THE NEW PATCH PANELS AS SHOWN IN THE PLANS.

PHASE III: INSTALL NEW MANAGED FIELD ETHERNET SWITCHES AS SHOWN IN THE PLANS.

PHASE IV: COMPLETE TESTING OF THE FIBER OPTIC CABLE AND TERMINATIONS AS REQUIRED PER THE STANDARD SPECIFICATIONS. PERFORM FIELD ACCEPTANCE TESTING FOR NEW COMMUNICATIONS SUB-SYSTEM.

PHASE V: NOTIFY MANATEE COUNTY 14 DAYS PRIOR TO ANY FIBER SPLICING INTO EXISTING MANATEE COUNTY ATMS TRUNK FIBER. PERFORM SPLICING AND PATCH CORD INSTALLATIONS AS SHOWN IN THE PLANS.

PHASE VI: COMPLETE REMAINING TESTING AS REQUIRED BY STANDARD SPECIFICATIONS.

	REVIS	SARA E. CALHOUN. P.E.	
DATE	DESCRIPTION	P.E. LICENSE NUMBER 64295	
			VIBE
			6914 W. LINEBAUGH AVENUE
			TAMPA, FL 33625
			(813) 264-2508

MANATEE COUNTY				
ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
SR 45	MANATEF	433592-4-58-01		

MAINTENANCE OF COMMUNICATIONS

SHEET NO.

IT-14 V:\0118002 US 41 69th Ave (Manatee Co)\Project Working Files\FPID XXXXXX-X-XX\ITS\NWDTIT01.dgn

VivekKoneru

DESIGN SPECIFICATIONS:

A) AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 1ST EDITION (2015) WITH 2017 INTERIM REVISIONS.

DESIGN GUIDELINES:

A) FDOT STRUCTURES MANUAL (JANUARY 2020)

B) FDOT DESIGN MANUAL - 2020

C) FDOT STANDARD PLANS - FY 2020-21

DESIGN METHOD:

LOAD RESISTANCE FACTOR DESIGN

CONSTRUCTION SPECIFICATIONS:

FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION - JULY 2020

CONCRETE:

MINIMUM 28-DAY
CLASS COMPRESSIVE STRENGTH

LOCATION

II

f'c = 3,400 PSI

MVDS POLE SPREAD FOOTING

REINFORCING STEEL:

REINFORCEMENT SHALL BE ASTM A615, GRADE 60 & SECTION 415 OF THE CONSTRUCTION SPECIFICATIONS.

CONCRETE COVER:

CONCRETE COVER SHOWN IN THE PLANS DOES NOT INCLUDE REINFORCEMENT PLACEMENT AND FABRICATION TOLERANCE UNLESS SHOWN AS "MINIMUM COVER." SEE FDOT STANDARD SPECIFICATIONS FOR ALLOWABLE REINFORCEMENT PLACEMENT TOLERANCES.

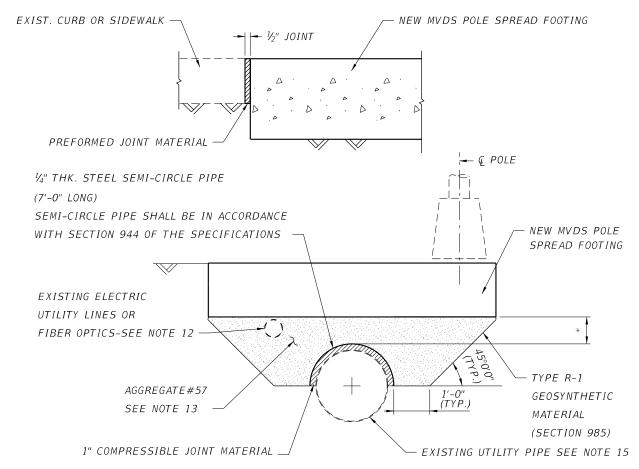
MVDS POLE SPREAD FOOTING NOTES:

- 1. DESIGN WIND SPEED = 140 MPH
- 2. COMPACT SOIL UNDER SPREAD FOOTING IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS SECTION 455.
- 3. ANCHOR BOLTS SHALL HAVE A MINIMUM OF 4½" INCH CONCRETE COVER AT THE BOTTOM OF THE FOOTING. SHIFT FOOTING REINFORCEMENT AS REQUIRED TO CLEAR BOLTS. ANCHOR BOLT CONFIGURATION AND ANCHOR PLATES SHALL BE COMPATIBLE WITH THE MVDS POLE TRANSFORMER BASE AND ACCOMMODATE THE FOOTING DIMENSIONS. PROVIDE DESIGN CALCULATIONS BASED ON LOADS PROVIDED BELOW, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- 4. FOR CONDUIT DETAILS REFER TO STANDARD PLANS INDEX 695-001.
- 5. DESIGN LOADS: (EXTREME EVENT I LOAD COMBINATION LIMIT STATE)

MVDS POLE NO.	MOMENT IN TRANSVERSE DIRECTION (KIP-FT)	SHEAR IN TRANSVERSE DIRECTION (KIPS)	TORSION (KIP-FT)	AXIAL (KIP)	MOMENT IN LONGITUDINAL DIRECTION (KIP-FT)	SHEAR IN LONGITUDINAL DIRECTION (KIP)
SITE #1	1.5	0.2	0.01	0.2	1.5	0.2

- 6. IF A POLE IS FURNISHED WHICH PRODUCES GREATER LOADS THAN ARE LISTED ABOVE, REDESIGN THE SPREAD FOOTING AND SUBMIT DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 7. WORK SPREAD FOOTING DETAILS SHEET WITH ITS PLANS, UTILITY ADJUSTMENT SHEETS AND STANDARD PLANS INDEX 695-001 (EXCEPT AS MODIFIED ON THESE SHEETS AND THE REQUIRED MODIFICATIONS TO ACCOMMODATE THE SPECIAL FOOTING DIMENSIONS).
- 8. DO NOT EMBED ELECTRICAL PULL BOXES IN THE SPREAD FOOTING FOUNDATION.

- 9. SOIL PARAMETERS USED IN DESIGN, PER GEOTECHNICAL REPORT BY MS. TERESA PUCKETT, P.E. DATED 02/19/2018: SOIL TYPE = SANDY
 WATER TABLE = +10.0
 INTERNAL ANGLE OF FRICTION F = 29 DEGREES
 TOTAL SOIL UNIT WEIGHT = 108 PCF
 SUBMERGED SOIL UNIT WEIGHT = 45.6 PCF
 ULTIMATE SOIL BEARING PRESSURE = 3,858 PSF
 FOR ADDITIONAL INFORMATION, SEE REPORT OF CORE BORINGS FOR SIGNALS SHEETS
- 10. COST OF MVDS POLE SPREAD FOOTINGS, INCLUDING REINFORCEMENT STEEL AND SIDEWALK DEMOLITION AND DISPOSAL, SHALL BE INCLUDED IN PAY ITEM FOR INDIVIDUAL POLES. NO SEPARATE PAY ITEMS FOR MVDS POLE FOOTINGS COST.
- 11. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITY LINES AT THE FOOTINGS PRIOR TO CONSTRUCTION. CONTACT SUNSHINE STATE ON CALL OF FLORIDA. INC. BEFORE BEGINNING OF EXCAVATION. SEE UTILITY ADJUSTMENTS SHEETS AND VERIFIED UTILITY LOCATE SHEETS.
- 12. AGGREGATE#57 SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE SPECIFICATIONS. COST OF EXCAVATION, SOIL DISPOSAL, SEMICIRCLE STEEL PIPE, COMPRESSIBLE JOINT MATERIAL, GEOSYNTHETIC MATERIAL AND AGGREGATE FILL SHALL BE INCLUDED IN THE PAY ITEM FOR THE PARTICULAR POLE.
- 13. FILL JOINTS BETWEEN NEW FOOTINGS AND SURROUNDING SIDEWALK OR CURB AND UTILITY PIPES SHALL BE PREMOLDED EXPANSION JOINT MATERIAL IN ACCORDANCE WITH SECTION 932 OF THE SPECIFICATIONS AND SHALL BE SELECTED FROM FDOT APL. NO SEPARATE PAY ITEM FOR THE JOINT COST.
- 14. * IF THE DIMENSION TO TOP OF WATER MAINS, SANITARY SEWERS, GAS MAINS OR DRAINAGE PIPES IS LESS THAN 2FT PROVIDE UTILITY TREATMENT SHOWN IN DETAIL A. IF THE UTILITY IS LESS THAN 1'-0" TO THE BOTTOM OF THE FOOTER, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.



DETAIL A: UNDERGROUND UTILITIES AT SPREAD FOOTINGS

REVISIONS			PREDRAG MILOSAVLJEVIC. PE	DRAWN BY:					
DATE	DESCRIPTION	DATE	DESCRIPTION	,	HJS CHECKED BY:		MANATEE COUNTY		
				PE LICENSE NUMBER 54961	PZM/HNS				
				SCALAR CONSULTING GROUP INC.	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				5713 CORPORATE WAY, SUITE 200	HJS				
I				WEST PAIM REACH EL 33407	CHECKED BY:	SR 45	MANATEE	433592-4-58-01	

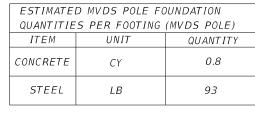
MVDS POLE SPREAD
FOOTING DETAILS (1)

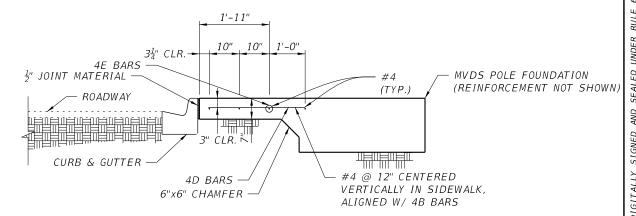
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| IT-1

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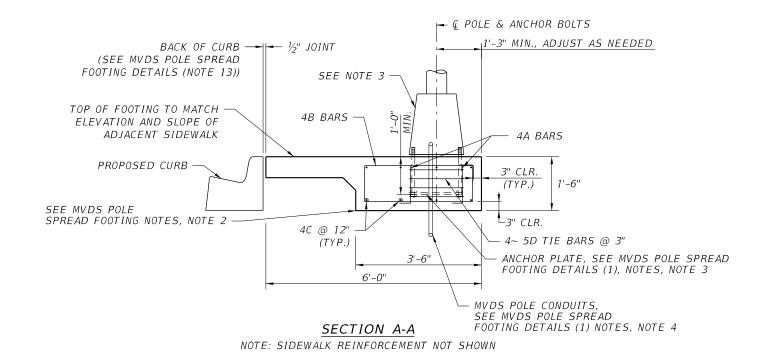




SIDEWALK AT MVDS POLE FOUNDATION

(SEE NOTE 6)

- 1. WORK THIS SHEET WITH FDOT INDEX NO. 415-001 BAR BENDING DETAILS.
- 2. ADJUST SPACING OF BARS A, B AND C TO CLEAR ANCHOR BOLTS.
- 3. ALL POLES SHALL HAVE BREAKAWAY TRANSFORMER IN ACCORDANCE WITH STANDARD PLAN INDEX 715-002.
- 4. FOR THE LOCATION OF MVDS SITE #1 SEE ITS PLAN SHEET (2).
- 5. THE PROVIDED STRUCTURAL DESIGN IS GENERAL IN NATURE. THE CONTRACTOR SHALL VERIFY ALL EXISTING UNDERGROUND UTILITIES AND INFORM THE ENGINEER ABOUT ANY CONFLICT.
- 6. TOP SURFACE OF THE FOOTING SHALL BE CAST FLUSH WITH THE TOP SURFACE OF THE ADJACENT SIDEWALK AND SHALL RECEIVE THE SAME SURFACE TREATMENT. ADD THE REINFORCEMENT AS SHOWN IN SIDEWALK AT LIGHT POLE FOUNDATIONS DETAIL.
- 7. CONSTRUCTION COSTS ASSOCIATED WITH THE SIDEWALK AT MVDS POLE FOUNDATIONS WILL BE INCLUDED IN CONSTRUCTION COST OF THE MVDS POLE SPREAD FOOTING.



4~ 4C @ 11½"

1/2" JOINT -

BOLT CIRCLE

6'-0"

PLAN VIEW - MVDS POLE SPREAD FOOTING NOTE: SIDEWALK REINFORCEMENT NOT SHOWN

8~4A EQUALLY SPACED

© POLE & ANCHOR BOLTS

PROPOSED SIDEWALK

€ POLE &

PROPOSED SIDEWALK

PROPOSED CURB

G FOOTING

REVISIONS PREDRAG MILOSAVLJEVIC, PE HJS MANATEE COUNTY DATE DESCRIPTION DESCRIPTION PE LICENSE NUMBER 54961 PZM/HNS SCALAR CONSULTING GROUP INC. ROAD NO. COUNTY FINANCIAL PROJECT ID DESIGNED B 5713 CORPORATE WAY, SUITE 200 HJS SR 45 MANATEE 433592-4-58-01 WEST PALM BEACH, FL 33407 PZM

5D TIE

 $3\frac{3}{4}$ " CLR.

 $3\frac{3}{4}$ " CLR.

1/3" JOINT

BAR

MVDS POLE SPREAD FOOTING DETAILS (2)

IT-16

SHEET

NO.

TRANSVERSE (AXIS OF LUMINAIRE ARM)