

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Digitally signed by James M James M Phillips Phillips Date: 2025.02.05 13:24:59-05'00'

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.

HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD.. SUITE 310, TAMPA, FL 33634 JAMES M. PHILLIPS, III, P.E. NO. 36865

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

SHEET NO.	SHEET DESCRIPTION
B1-1	STRUCTURES KEY SHEET
B1-2	SIGNATURE SHEET
BQ1-1	SUMMARY OF QUANTITIES (1 OF 3)
BQ1-2	SUMMARY OF QUANTITIES (2 OF 3)
BQ1-3	SUMMARY OF QUANTITIES (3 OF 3)
B1-4	GENERAL NOTES (2 OF 2)
B1-5	PAY ITEM AND TEMPORARY TRAFFIC CONTROL NOTES



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Travis M Kimmins 2025.02.05 13:15:29-05'00'

ON THE DATE ADJACENT TO THE SEAL

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HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD.. SUITE 310, TAMPA, FL 33634 TRAVIS M. KIMMINS, P.E. NO. 87786

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

SHEET NO.	SHEET DESCRIPTION
B1-2	SIGNATURE SHEET
B1-22	SPAN DRIVE HYDRA

SPAN DRIVE HYDRAULIC SCHEMATIC (5 OF 5)



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Marco A Lara 2025.02.05 13:31:39 -05'00'

ON THE DATE ADJACENT TO THE SEAL

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HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD., SUITE 310, TAMPA, FL 33634 MARCO A. LARA, P.E. NO. 78414

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

SHEET NO.	SHEET DESCRIPTION
B1-2 B1-25 B1-27 B1-28 B1-29 B1-30 B1-31 B1-35	SIGNATURE SHEET ELECTRICAL GENERAL NOTES ELECTRICAL PLAN AND ELEVATION ONE LINE DIAGRAM MCC DETAILS MCC MATERIALS LIST HYDRAULIC CONTROL PANEL LAYOUT LIGHTING SCHEDULE
B1-38	NAVIGATION LIGHT DETAILS
B1-38 B1-39	NAVIGATION LIGHT DETAILS BARRIER GATE DETAILS
D1 33	DANGER OFFE DETAILS

BRIDGE NO. 124134

		REVIS	SIONS	;		JAMES M. PHILLIPS III, P.E.	DRAWN BY:		LEE COU	NTY	SHEET TITLE:		REF, DWG, NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 36865 HARDESTY & HANOVER, LLC	QPO 06-24 CHECKED BY: JMP 06-24	DEPAR		ANSPORTATION		SIGNATURE SHEET	
						5110 EISENHOWER BLVD, SUITE 310 TAMPA, FLORIDA 33634	DESIGNED BY: QPO 08-24	ROAD NO.	COUNTY	453997 - 1 - 58 - 01	PROJECT NAME:		SHEET NO.
						TAMPA, FLORIDA 33034	CHECKED BY: JMP 06-24	CR 78	LEE	CN-1414-218		MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	B1-2

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			SUMMARY OF ST	RUCTUR	E QUA	NTITIES	5			
SECTION	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUAN P	IT ITY	TO P	TAL	DESIGN NOTES	CONSTRUCTION REMARKS
	101-1	MOBILIZATION	BASCULE SPAN 7	LS		1.00	<u> </u>	1.00	NOTES	REMARKS
GENERAL 🛕	102-1	MAINTENANCE OF TRAFFIC	VARIOUS LOCATIONS	LS		1.00		1.00		
\triangle	104-11	FLOATING TURBIDITY BARRIER	VARIOUS LOCATIONS	LF		800.00		800.00	ESTIMATED 400 LF EACH SIDE	
	120-6	EMBANKMENT	BEGIN APPROACH SLAB	CY		12.00		12.00		
	305 - 1	BITUNIMOUS CRACK & JOINT SEALING FOR ASPHALTIC CONCRETE ROADWAY	BEGIN & END APPROACH SLABS	LF		88.00		88.00		
	400-73	SPAN JACKING	APPROACH SPANS 1 & 14	LS <u>À</u>		1.00		1.00	IF REQUIRED	
	400 - 148	PLAIN NEOPRENE BEARING PADS	APPROACH SPANS 1 & 14	CF		1.60		1.60	IF REQUIRED	
	471-1-2-001	FENDER SYSTEM, PLASTIC MARINE LUMBER (PLANKS)	BASCULE SPAN 7	МВ		0.20		0.20		
STRUCTURAL	471-1-2-002	FENDER SYSTEM, PLASTIC MARINE LUMBER (WALERS)	BASCULE SPAN 7	МВ		0.90		0.90		
\triangle	512-1 1	MOVABLE BRIDGE CONTROL HOUSE, RENOVATE	BASCULE SPAN 7	EA		1.00		1.00	REPLACE DAMAGED LOUVER SYSTEMS	
	515-1-2-001	PIPE HANDRAIL POSTS - GUARDRAIL, ALUMINUM S /CABLES/HARDWARE)	VARIOUS LOCATIONS	LF		14.00		14.00		
	515-1-2-002	STAINLESS STEEL RAILING CABLE-FENDER SYSTEM	BASCULE SPAN 7	LF		563.00		563.00		
	515-2-7	PEDESTRIAN/BICYCLE RAILING, SPECIAL	BASCULE SPAN 7	LF		1001.00		1001.00		
	530-3 3	RUBBLE RIP-RAP	APPROACH SPANS 1 & 14	TN		14.00		14.00		
	530-5 11	GABION, MATTRESS, LESS THAN 1 FOOT THICKNESS	APPROACH SPAN 1	SY		28.00		28.00		

NOTES: 1. FOR PAY ITEM NOTES, SEE SHEET NO. B1-5.

BRIDGE NO. 124134

		REVIS	SNOIS			JAMES M. PHILLIPS III, P.E.	DRAWN BY:		LEE COU	VTY	SHEET TITLE:		REF, DWG, NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 36865	QPO 06-24 CHECKED BY:	DEDAT		ANSPORTATION		SUMMARY OF QUANTITIES (1 OF 3)	
						HARDESTY & HANOVER, LLC	JMP 06-24	DEFAI	CIMENI OF IK	MOTOKIATION			l
	l ncn	ADDED PAY ITEMS, DELETED PAY				5110 EISENHOWER BLVD. SUITE 310	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
1/25	PCR	1 ITEM 512-1-1. UPDATED QUANTITIES.				TAMPA, FLORIDA 33634	QPO 08-24			453997 - 1 - 58 - 01		MATUROUS BACCULE BRIDGE EMERGENCY BERLING	SHEET NO.
						TAMIA, TEONIDA 33034	CHECKED BY:	CR 78	LEE	CN-1414-218		MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	BQ1 - 1
							JMP 06-24			CN-1414-210			
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	PAY ITEM				QUAN	ITITY	TO	TAI	DESIGN	CONSTRUCTION
SECTION	NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	P	F	P	F	NOTES	REMARKS
	465-2-122	MOVABLE BRIDGE MACHINERY & CASTING - REHABILITATION, FURNISH & INSTALL, SPHERICAL BEARINGS	BASCULE SPAN 7	EA		4.0		4		
	465-2-421	MOVABLE BRIDGE MACHINERY & CASTING - REHABILITATION, RECONDITION, PLAIN JOURNAL BEARINGS	BASCULE SPAN 7	EA		4.0		4		
	465-2-452	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, RECONDITION, HYDRAULIC CYLINDER	BASCULE SPAN 7	EA		2.0		2		
	465 - 2 - 454	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, RECONDITION, HYDRAULIC POWER PACK	BASCULE SPAN 7	EA		1.0		1		
	465-2-505	MOVABLE BRIDGE MACHINERY & CASTING - REHABILITATION, ADJUST & MODIFY, SPAN LOCKS	BASCULE SPAN 7	AS		2.0		2		
	465-2-508	MOVABLE BRIDGE MACHINERY & CASTING - REHABILITATION, ADJUST/MODIFY LIVE LOAD SHOES	BASCULE SPAN 7	LS		1.0		1		
MOVABLE BRIDGE / MECHANICAL	465-2-660	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, REMOVE & DISPOSE, OTHER MACHINERY COMPONENTS	BASCULE SPAN 7	LS		1.0		1		
\triangle	465-3 17	MOVABLE BRIDGE COUNTERWEIGHT, F&I, BALANCE BLOCKS	BASCULE SPAN 7	LS		1.0		1		
	465-3 50	MOVABLE BRIDGE COUNTERWEIGHT, ADJUST	BASCULE SPAN 7	EA		1.0		1	INCLUDE SPAN BALANCING TESTING ONLY TO CONFIRM PROPER BALANCE, NO ADJUSTMENTS ANTICIPATED.	\triangle
\triangle	465-3-96	MOVABLE BRIDGE COUNTERWEIGHT, CLEAN, POCKETS	BASCULE SPAN 7	EA		2.0		2		
	465-20	MOVABLE BRIDGE- PREVENTATIVE MAINTENANCE & ROUTINE REPAIR	BASCULE SPAN 7	L5		1.0		1		
	465-21	MOVABLE BRIDGE OPERATOR	BASCULE SPAN 7	LS		1.0		1		
	465-71-3	MOVABLE BRIDGE FUNCTIONAL CHECKOUT, PHASE C, COMPLETE	BASCULE SPAN 7	LS		1.0		1		
OVABLE BRIDGE / CONTROL HOUSE	512-71 1	MOVABLE BRIDGE-PLUMBING SYSTEM, F&I (INCLUDES NEW HANGERS)	BASCULE SPAN 7	EA		1.0		1		

NOTES: 1. FOR PAY ITEM NOTES, SEE SHEET NO. B1-5.

BRIDGE NO. 124134

		REVIS	SIONS			JAMES M. PHILLIPS III, P.E.	DRAWN BY:		LEE COU	VTY	SHEET TITLE:		REF, DWG, NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 36865	QPO 06-24 CHECKED BY:	DEDAT		ANSPORTATION		SUMMARY OF QUANTITIES (2 OF 3)	
		. REMOVED PAY ITEM NUMBERS				HARDESTY & HANOVER, LLC	JMP 06-24						
1/25	PCR	465-3-17 465-3-96. ADDED				5110 EISENHOWER BLVD, SUITE 310	DESIGNED BY:	ROAD NO.	COUNTY		PROJECT NAME:		SHEET NO.
.,		DESIGN NOTES.				TAMPA, FLORIDA 33634	QPO 08-24 CHECKED BY:	CR 78	LEE	453997 - 1 - 58 - 01		MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	001.0
							JMP 06-24			CN-1414-218			BQ1-2

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SECTION	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANT IT		TOTAL	DESIGN NOTES	CONSTRUCTION REMARKS	
	NO.				P	F	P F	NOTES	REMARKS	1
	508 - 2 - 1 - 001	MOVABLE BRIDGE GATE (FURNISH & INSTALL) (CLASS I 1 LANE)	BASCULE SPAN 7	AS	4	4.00	4.00	4 Traffic Gates w/ LED Arm ITS, 2 Gongs. Shop Drawing Submittal , Conduit Wire ETC.		
	508 - 2 - 1 - 002	MOVABLE BRIDGE GATE (FURNISH & INSTALL) (PEDESTRIAN)	BASCULE SPAN 7	A5	4	4.00	4.00	4 Ped. Gates w/ LED Arm Its, Shop Drawing Submittal, Conduit Wire ETC.		
\triangle	508 - 2 - 5	MOVABLE BRIDGE GATE, ADJUST/MODIFY/REHAB	BASCULE SPAN 7	AS	1	1.00	1.00	Replace main crank arm shaft and associated components, Shop Drawing, ETC.	\triangle	
\triangle	508-2-6	MOVABLE BRIDGE GATE, REMOVE & DISPOSE	BASCULE SPAN 7	AS	8	8.00	8.00			
\triangle	508-3-5	MOVABLE BRIDGE SIGNAL (FURNISH & INSTALL)	BASCULE SPAN 7	A5	2	2.00	2.00	4 Traffic Lights w/ LEDs, Signs, Shop Drawing Submittal		
	508 - 4	MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REHABILITATION	BASCULE SPAN 7	L5/L5	1	1.00	1.00	Conduit, Wiring, Disconnect Switches, Lighting Receptacles, Sump Pump, Submarine Cable Supports.		
	508-4-001	NAVIGATION LIGHTS (BRIDGE MOUNT)	BASCULE SPAN 7	EA	2	2.00	2.00	2 Bascule Lights w/ LEDs, 1 Horn, 1 Marine Radio/Antn, Shop Drawing Submittal.		
	508-4-002	NAVIGATION LIGHTS (FENDER MOUNT)	BASCULE SPAN 7	EA	6	5.00	6.00	6 Pier Lights w/ LEDS. Shop Drawing Submittal		
OVEABLE BRIDGE ELECTRICAL	508 - 4 - 003	CLEARANCE GAUGE LIGHTS	BASCULE SPAN 7	EA	2	2.00	2.00	2 Clearance Gauge, Signage, Shop Drawing Submittal.		
	508 - 4 - 005	CAMERA ASSEMBLY/SUPPORT	BASCULE SPAN 7	EA	4	4.00	4.00	4 Cameras, 4 Camera support, 2 mount & adj PTZ, 1 misc. ∕i\		
\triangle	508-76-1	MOVABLE BRIDGE-REHAB, SPAN MOTORS & CONTROLLERS, F&I	BASCULE SPAN 7	LS	1	1.00	1.00	Auxiliary Motor, 2 - 60HP Motor, Shop Drawing.		
\triangle	508-76-4	MOVABLE BRIDGE-REHAB, SPAN MOTORS & CONTROLLERS, REMOVE	BASCULE SPAN 7	LS	1	1.00	1.00			
A	508-82-5	MOVABLE BRIDGE CONTROL PANEL/MOTOR CONTROLLER	BASCULE SPAN 7	EA	1	1.00	1.00	MCC Motor Starters, Circuit Breakers, Transformers, Indicator Lights, Misc, Shop Drawing Submittal.		
	508-83-103	MOVABLE BRIDGE INTEGRATED DRIVE SYSTEM	BASCULE SPAN 7	AS	1	1.00	1.00	2 VSD Drives (100A), 2 OL Relays , Drive Cabinet Components, Testing and Setup, Shop Drawing Submittal, Misc.	A	
\triangle	715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	BASCULE SPAN 7	LF	310	05.00	3105.00	, 3105 ft Insulated #8 AWG Lighting Conductor		
\triangle	715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	BASCULE SPAN 7	LF	448	82.00	4482.00	, 4482 ft Insulated #4 AWG Lighting Conductor		
\triangle	715-11-213	LUMINAIRE,F&I-REPLACE EXISTING LUMINAIRE ON EXISTING POLE/ARM, ROADWAY	BASCULE SPAN 7	EA	4	4.00	4.00	4 Luminaires, Shop Drawing Submittal		
<u>^</u>	715-515-240	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM BRIDGE MOUNT-GALVANIZED STEEL, 40'	BASCULE SPAN 7	EA	3	3.00	3.00	3 Roadway Lights		

NOTES: 1. FOR PAY ITEM NOTES, SEE SHEET NO. B1-5.

		REVIS	SIONS	3		JAMES M. PHILLIPS III, P.E.	DRAWN BY: QPO 06-24		LEE COU	NTY	SHEET TITLE:		REF, DWG, NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 36865	CHECKED BY:	DEPAI		ANSPORTATION		SUMMARY OF QUANTITIES (3 OF 3)	
		. UPDATED PAY ITEM NUMBERS AND				HARDESTY & HANOVER, LLC	JMP 08-24						
1/25	PCR	A DESIGN NOTES, ADDED PAY ITEMS.				5110 EISENHOWER BLVD, SUITE 310	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT RABIES		SHEET NO.
1,723	1,000	UPDATED QUANTITIES.				TAMPA, FLORIDA 33634	QPO 08-24 CHECKED BY:	CR 78	LEE	453997 - 1 - 58 - 01		MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	
							JMP 06-24			CN-1414-218			BQ1-3

I. NAVIGATIONAL REQUIREMENTS

- ↑ 1. BASCULE SPAN HAS NOT BEEN OPERATED SINCE THE HURRICANE. INSPECT AND ENSURE ALL COMPONENTS ARE FUNCTIONAL BEFORE ATTEMPTING OPERATION.
 - A COPY OF THE CONSTRUCTION PLAN, SCHEDULE, AND SEQUENCE OF OPERATIONS, APPROVED BY THE ENGINEER, MUST BE SUBMITTED TO THE U.S.C.G. FOR APPROVAL 60 DAYS PRIOR TO STARTING WORK OVER OR IN THE WATERWAY.
 - NOTIFY THE U.S.C.G. SECTOR ST. PETERSBURG WATERWAYS MANAGEMENT AND U.S.C.G. DISTRICT 7 BRIDGE ADMINISTRATION VIA E-MAIL 10 DAYS PRIOR TO THE START OF CONSTRUCTION AND 90 DAYS PRIOR TO ANY ANTICIPATED CHANNEL RESTRICTIONS.
 - 4. ANY CHANNEL RESTRICTIONS (HORIZONTAL AND/OR VERTICAL) MUST BE APPROVED BY THE U.S.C.G. PROVIDE 90 DAYS ADVANCED NOTICE.
- 5. THE BRIDGE IS CURRENTLY UNDER A NOTICE TO MARINERS INDICATING THAT IT IS UNABLE TO PROVIDE OPENINGS AS AUTHORIZED BY THE U.S.C.G.
 - 6. INCLUDE ENGINEER IN ALL COMMUNICATION WITH U.S.C.G.
 - 7. MAINTAIN FUNCTIONING NAVIGATION LIGHTING DURING CONSTRUCTION AND LIGHTING ON ALL IN-WATER CONSTRUCTION EQUIPMENT AND VESSELS. ADDITIONAL TEMPORARY NAVIGATION LIGHTING IS REQUIRED IF ANY EQUIPMENT BLOCKS MARINER'S VISUALIZATION OF TEMPORARY OR PERMANENT NAVIGATION LIGHT FIXTURES ON THE FENDER SYSTEM OR IN THE CHANNEL.
 - IF WEATHER CONDITIONS OR ANY OTHER CONDITIONS THREATEN THE SAFETY OF MARINE TRAFFIC AT ANY TIME DURING THE PROJECT. CEASE OPERATIONS AND CLEAR ALL CONSTRUCTION EQUIPMENT AND VESSELS FROM THE CHANNEL AS DIRECTED BY THE ENGINEER.
 - CONTACT INFORMATION FOR U.S.C.G: SECTOR ST. PETERSBURG WATERWAYS MANAGEMENT: (727) 824-7506, D07-SMB-TAMPA-WWM@USCG.MIL DISTRICT 7 BRIDGE ADMINISTRATION: MS. JENNIFER ZERCHER - (305) 415-6740, jennifer.n.zercher@uscg.mil

J. UTILITY LOCATIONS

- ABOVE GROUND OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT.
- 2. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS SHOULD BE CONSIDERED APPROXIMATE ONLY.
- 3. UTILITIES SHALL REMAIN UNLESS NOTED OTHERWISE.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO DAMAGE OCCURS TO THE EXISTING UTILITIES AS A RESULT OF THE WORK.
- 5. THE FOLLOWING UTILITIES ARE WITHIN THE CONSTRUCTION ZONE:
 GREATER PINE ISLAND WATER AUTHORITYMIKES MAILLAKAKIES 239-283-1073
 LEE COUNTY UTILITES
 LEE COUNTY ELECTRIC COOPERATIVE (LCCC)

COMCAST
CENTURYLINK
GRAVITY
FORCE MAIN
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K. STAGING AND STORAGE AREAS

ANY PROPOSED STAGING OR STORAGE AREA CHANGES IN LEE COUNTY RIGHT-OF-WAY SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ANY LEE COUNTY RIGHT-OF-WAY USED BY THE CONTRACTOR MUST BE MAINTAINED BY THE CONTRACTOR AND THEN RETURNED TO ORIGINAL CONDITION AT THE END OF THE PROJECT AT THE CONTRACTOR'S EXPENSE AND AT NO COST TO THE COUNTY.

L. ABBREVIATIONS

- SEE FDOT STANDARD PLANS ABBREVIATIONS SHEET FOR STANDARD ABBREVIATIONS.
- . ADDITIONAL ABBREVIATIONS AS DEFINED HEREIN ARE USED THROUGHOUT THE PLANS:

ADJ. - ADJACENT OPP. - OPPOSITE

CJ - CONSTRUCTION JOINT T&B - TOP AND BOTTOM

EF - EACH FACE TSP - TECHNICAL SPECIAL PROVISION
EOR - ENGINEER OF RECORD UNO - UNLESS NOTED OTHERWISE

MHC - MINIMUM HORIZONTAL CLEARANCE @ - AT

MVC - MINIMUM VERTICAL CLEARANCE

M. MISCELLANCEOUS NOTES

- DIMENSIONS SHOWN IN THE PLANS WERE TAKEN FROM EXISTING DRAWINGS. VERIFY ALL EXISTING FIELD CONDITIONS
 SHOWN ON THE DRAWINGS PRIOR TO START OF CONSTRUCTION AND ORDERING OF MATERIALS. BRING ANY DISCREPANCY
 TO THE ENGINEER'S ATTENTION IN WRITING IMMEDIATELY AFTER DISCOVERY.
- PRIOR TO REPAIR OPERATIONS, REMOVE AND MAINTAIN ON SITE, ANY SIGNS THAT MAY BE AFFECTED BY CONSTRUCTION AND REPLACE THEM IN A MANNER SUITABLE TO THE ENGINEER IMMEDIATELY AFTER REPAIR OPERATIONS.
- 3. EXCEPT WHERE APPROVED BY THE ENGINEER, WORK SHALL NOT INTERFERE WITH TRAFFIC OR PEDESTRIAN USE OF THE BRIDGE OR APPROACH ROADWAYS.
- 4. CLEAN AND REMOVE ALL DEBRIS FROM THE ROADWAY AND SIDEWALKS IN THE PROJECT SITE ON A DAILY BASIS.
- 5. PARKING OF EQUIPMENT ON THE BASCULE SPAN IS PROHIBITED.
- PROVIDE SAFE ACCESS TO ALL WORK AREAS FOR LEE COUNTY REPRESENTATIVES AND CEI INSPECTORS. THIS INCLUDES BOATS WITH OPERATORS PER FDOT STANDARD SPECIFICATIONS SECTION 5-9.1.
- 7. COORDINATE WORK WITH ALL OTHER CONTRACTORS WORKING ON FDOT, LEE COUNTY, TOWN OF MATLACHA, OR OTHER PROJECTS IN THE VICINITY.
- SECURE EQUIPMENT PROPERLY AND AWAY FROM THE BRIDGE DURING SEVERE WEATHER OR WHEN UNATTENDED ON LANDSIDE OF THE BRIDGE.

BRIDGE NO. 124134

		REVIS	SIONS	;		JAMES M. PHILLIPS III. P.E.	DRAWN BY:		LEE COUN	NTY	SHEET TITLE:		REF, DWG, NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 36865	QPO 06-24 CHECKED BY:	DEDAT		NSPORTATION		GENERAL NOTES (2 OF 2)	
		REVISED NAVIGATIONAL				HARDESTY & HANOVER, LLC	JMP 06-24						
1/25	000					5110 EISENHOWER BLVD. SUITE 310	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
1/25	PCK	1 REQUIREMENT NOTES AND ADDED	l			TAMPA, FLORIDA 33634	QPO 08-24			453997 - 1 - 58 - 01		MATIACUA BACCULE BRIDGE EMERCENCY DERAIDS	OTILLTING
		UTILITY INFORMATION.				17411111 11 120112011 33031	CHECKED BY:	CR 78	LEE	CN-1414-218		MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	B1-4
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PAY ITEM NOTES

- 1. PAY ITEMS FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE BID ITEMS. COST FOR COMPLIANCE WITH ALL REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION FOR THIS PROJECT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR BID ITEMS IN THIS PROJECT.
- UNLESS NOTED OTHERWISE, PAY ITEMS ARE INCLUSIVE OF ALL LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE THE WORK AS DESCRIBED. NO SEPARATE PAYMENT WILL BE MADE FOR PREPARATION OF WORKING OR SHOP DRAWINGS, CONSTRUCTION PROCEDURES, TESTING OR DOCUMENTATION.
- ITEM 102-1 INCLUDES ALL MAINTENANCE OF TRAFFIC (MOT) ACTIVITIES REQUIRED FOR THE DURATION OF CONSTRUCTION. SEE "TEMPORARY TRAFFIC CONTROL (TTC) NOTES" FOR FURTHER DETAILS.
- ITEM 120-6 INCLUDES IN KIND REPLACEMENT OF MISSING EMBANKMENT FILL BELOW SIDEWALKS.
- ITEM 305-1 INCLUDES REPAIR OF LOCATIONS EXHIBITING REFLECTIVE CRACKING ON APPROACH ROADWAY.
- ITEM 400-148 INCLUDES ADJUSTMENT OF EXISTING DISPLACED PLAIN NEOPRENE BEARING PADS, INCLUDING NEW NEOPRENE, SEALANT, AND ANY REQUIRED JACKING.
- ITEM 465-20 INCLUDES ROUTINE REPAIRS AND MAINTENANCE OF THE MOVEABLE BRIDGE FOR THE DURATION OF <u> 1</u> 7. CONSTRUCTION PERIOD
 - ITEM 465-2-122 INCLUDES IN-KIND REPLACEMENT OF SPHERICAL BEARINGS AT THE CARDANIC RINGS.
 - ITEM 465-2-421 INCLUDES RECONDITIONING OF PLAIN JOURNAL BEARINGS AT CARDANIC RINGS AND NEW GREASE
 - ITEM 465-2-452 INCLUDES IN-KIND REPLACEMENT OF HYDRAULIC CYLINDER ASSOCIATED HARDWARE AND VALVES
 - ITEM 465-2-454 INCLUDES IN-KIND REPLACEMENT OF HYDRAULIC HPU FLUID AND ASSOCIATED HARDWARE, HOSES, PIPING, MANIFOLDS (REHABILITATION), PUMPS, VALVES AND THERMAL SWITCHES.
 - ITEM 465-2-505 INCLUDES SHIMMING AND ADJUSTMENT OF SPAN LOCK GUIDES AND RECEIVERS.
 - ITEM 465-2-508 INCLUDES SHIMMING AND ADJUSTMENT OF LIVE LOAD BEARING ASSEMBLIES.
- ITEM 465-2-660 INCLUDES REMOVAL OF SPHERICAL AND PLAIN JOURNAL BEARINGS, HYDRAULIC VALVES, HOSES,
- PIPING, PUMPS, THERMAL SWITCHES AND ASSOCIATED HARDWARE PART OF THE IN-KIND REPLACEMENT ITEM LIST.
- ITEM 465-3-17 INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT FOR SPAN BALANCE TESTING.
- 16. ITEM 465-3-50 INCLUDES FURNISHING AND INSTALLATION OF COUNTERWEIGHT CAST IRON BLOCKS.
- 17. ITEM 465-3-96 INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT FOR COUNTERWEIGHT POCKET CLEANING.
 - 18. ITEM 465-20 INCLUDES ROUTINE REPAIRS AND MAINTENANCE OF THE MOVABLE BRIDGE FOR THE DURATION OF CONSTRUCTION PERIOD.
 - ITEM 465-21 INCLUDES MOVABLE BRIDGE OPERATOR.
 - ITEM 465-71-3 INCLUDES ALL MATERIALS AND LABOR REQUIRED FOR THE PREPARATION OF THE TESTING PROCEDURES, FORMS, AND THE TESTING OF THE OPERATING SYSTEM TO ENSURE THE PROPER FUNCTION AND COMMISSIONING OF THE NEW HYDRAULIC COMPONENTS.
- ITEM 508-2-1 INCLUDES THE IN KIND REPLACEMENT OF THE BRIDGE TRAFFIC AND SIDEWALK GATE ASSEMBLIES.
- 1 22. ITEM 508-3-5 INCLUDES IN KIND REPLACEMENT OF MOVABLE BRIDGE TRAFFIC SIGNAL ASSEMBLIES AND MOVABLE BRIDGE AHEAD SIGNS
- ↑ 23. ITEM 508-4 INCLUDES CONDUIT, WIRING, PULL BOXES, JUNCTION BOXES, GENERAL LIGHTING, RECEPTACLES, MAIN ELECTRICAL SERVICE EQUIPMENT, DISCONNECT SWITCHES, NAVIGATIONAL LIGHTING SYSTEM, CCTV SYSTEM, PA INTERCOM EQUIPMENT, SUPPORTS AND ASSOCIATED EQUIPMENT TO INTERFACE WITH EXISTING POWER AND CONTROL SYSTEMS. INCLUDES START-UP AND COMMISSIONING. CLEAN AND DRY CONDUITS AND BOXES REMOVING WATER, DIRT AND SAND.
 - ITEM 506-76-1 INCLUDES IN KIND REPLACEMENT OF MOVABLE BRIDGE MAIN SPAN AND AUXILIARY MOTORS.
- ITEM 508-76-4 INCLUDES REMOVAL OF MAIN SPAN AND AUXILIARY MOTORS.
- /1\ 26. ITEM 508-78-1 INCLUDES IN KIND REPLACEMENT OF LIMIT SWITCHES AND TRANSDUCERS.
- ITEM 508-78-4 INCLUDES REMOVAL OF LIMIT SWITCHES AND TRANSDUCERS.
- 7 27. 1 28. ITEM 508-82-4 INCLUDES RECONDITIONING OF EXISTING MOTOR CONTROL CENTER, INCLUDING IN KIND REPLACEMENT OF MOTOR STARTERS, CONTRACTORS, TERMINAL BLOCKS, FUSES, CIRCUIT BREAKERS, SWITCHES, PILOT LIGHTS, TRANSFORMER, SURGE SUPPRESSORS, AND ASSOCIATED EQUIPMENT. CLEAN AND DRY COMPONENTS OF THE MCC REMOVING WATER, DIRT, AND SAND.
- ITEM 508-83-103 INCLUDES IN KIND REPLACEMENT OF HYDRAULIC POWER UNIT CONTROL PANEL INTERNAL COMPONENTS AND DEVICES INCLUDING VARIABLE SPEED DRIVES, CIRCUIT BREAKERS, TERMINAL BLOCKS, RELAYS, STARTERS, ENCLOSURE, TRANSFORMER, PILOT LIGHTS, SWITCHES AND ASSOCIATED EQUIPMENT AS ONE COMPLETE
- 10. A 11- ASSOCIATED ASSOCIATED THE EXISTING DAMAGED LOUVER SYSTEMS WITH ASSOCIATED COMPONENTS AND HARDWARE AND FURNISH AND INSTALL IN KIND NEW LOUVER SYSTEMS WITH ASSOCIATED COMPONENTS AND HARDWARE IN THE BASCULE PIER
 - ITEM 512-71-1 INCLUDES THE IN KIND REPLACEMENT OF DAMAGED AND/OR MISSING UTILITY HANGERS WITH ASSOCIATED HARDWARE AND UTILITY LINES.
 - ITEM 515-1-2 INCLUDES THE IN KIND REPLACEMENT OF DAMAGED FENDER SYSTEM RAILING POSTS AND BRACES.
 - ITEM 515-2-7 INCLUDES THE IN KIND REPLACEMENT OF DAMAGED AND/OR MISSING BRIDGE PEDESTRIAN RAILING CABLES AND FENDER SYSTEM RAILING CABLES.
 - ITEM 530-3-3 INCLUDES THE IN KIND REPLACEMENT OF MISSING RUBBLE RIP-RAP.
 - ITEM 530-5-11 INCLUDES THE IN KIND REPLACEMENT OF MISSING EMBANKMENT FILL AT EXPOSED BULKHEAD TIE-BACKS AND FURNISH AND INSTALL NEW GABION MATTRESS SYSTEM.

TEMPORARY TRAFFIC CONTROL (TTC) NOTES

GENERAL TTC NOTES:

- THE REGULATORY SPEED LIMITS FOR THE PROJECT WORK ZONE IS: 35 MPH
- EXISTING POSTED SPEED: 35 MPH
- LANE CLOSURES ARE NOT PERMITTED WITHOUT PRIOR APPROVAL FROM LEE COUNTY.
- PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE USED FOR 14 DAYS IN ADVANCE OF A LANE CLOSURE TO NOTIFY MOTORISTS OF THE IMPENDING TRAFFIC DISRUPTION

TTC PHASING NOTES:

PHASE 1A

- INSTALL ADVANCE WARNING SIGNS PER FDOT STANDARD PLANS INDEX NO. 102-613.
- DURING ALLOWABLE LANE CLOSURE PERIODS, UTILIZING INDEX NO. 102-613, CLOSE THE WB/EB OUTSIDE LANE TO PERFORM WORK TASKS SHOWN IN THE PLANS.

BRIDGE NO. 124134

		REVIS	SIONS			JAMES M. PHILLIPS III, P.E.	DRAWN BY: QPO 06-24		LEE COU	NTY		REF, DWG, NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 36865		DEDAT		ANSPORTATION	PAY ITEM AND TEMPORARY TRAFFIC CONTROL NOTES	
						HARDESTY & HANOVER, LLC	CHECKED BY: JMP 06-24	DEFAI	KIPIENT OF TRA	MOTOKIATION		
		REVISED NOTES 15, 22, 29, AND	l				DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT WARD	-
1/2	5 PC		l			5110 EISENHOWER BLVD, SUITE 310	QPO 08-24				PROJECT (WARE)	SHEET NO.
1/2	, I, ,	DELETED 7, 16, 17, 26, 27, AND 30.	l			TAMPA, FLORIDA 33634		CD 70	100	453997 - 1 - 58 - 01	MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	
			l				CHECKED BY:	Ch /0		CN-1414-218	PARTE DE L'ALTERNATION	B1-5
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			HYDRAULIC SYSTEM COMPO	ONENT TABLE
ITEM	MANUFACTURER	PART NUMBER	QUANTITY	DESCRIPTION
E*	-	-	1	RIGID PIPING (ACCUMULATOR LINE), 2" DIA. SCHEDULE 160, APPROX. 32" LONG
F*	-	-	1	RIGID PIPING (ROD LINE), FROM HPU MANIFOLD DOWN TO HPU ROOM FLOOR, 11/4" DIA., APPROX. 61" LONG
G*	-	-	1	RIGID PIPING (BLIND LINE), FROM HPU MANIFOLD DOWN TO HPU ROOM FLOOR, 2" DIA., APPROX. 61" LONG
H*	-	-	1	RIGID PIPING (DRAIN LINE), FROM HPU MANIFOLD DOWN TO HPU ROOM FLOOR, 11/4" DIA., APPROX. 86" LONG
F	-	-	1	RIGID PIPING (ROD LINE), FROM HPU ROOM FLOOR TO CB MANIFOLD, 11/4" DIA., APPROX. 582" LONG
G	-	-	1	RIGID PIPING (BLIND LINE), FROM HPU ROOM FLOOR TO CB MANIFOLD, 2" DIA., APPROX. 582" LONG
Н	-	-	1	RIGID PIPING (DRAIN LINE), FROM HPU ROOM FLOOR TO CB MANIFOLD, 11/4" DIA., APPROX. 582" LONG
К	-	-	2	RIGID PIPING (ROD LINE), FROM CB MANIFOLD TO CYLINDER MANIFOLD, 1" DIA., APPROX. 132" LONG
М	AEROQUIP (EATON)	GH493-16	2	FLEXIBLE HOSE (ROD LINE), FROM CB MANIFOLD TO CYLINDER MANIFOLD, 1" DIA., APPROX. 72" LONG
N	-	-	2	RIGID PIPING (BLIND LINE), FROM CB MANIFOLD TO CYLINDER MANIFOLD, 11/4" DIA., APPROX. 132" LONG
Р	AEROQUIP (EATON)	GH493-20	2	FLEXIBLE HOSE (BLIND LINE), FROM CB MANIFOLD TO CYLINDER MANIFOLD, 11/4" DIA., APPROX. 72" LONG
Q	-	-	2	RIGID PIPING (DRAIN LINE), FROM CB MANIFOLD TO CYLINDER MANIFOLD, 1" DIA., APPROX. 132" LONG
R	AEROQUIP (EATON)	GH493-16	2	FLEXIBLE HOSE (DRAIN LINE), FROM CB MANIFOLD TO CYLINDER MANIFOLD, 1" DIA., APPROX. 72" LONG
T	-	-	2	RIGID PIPING (BLIND LINE), FROM CYLINDER MANIFOLD TO CYLINDER BLIND END, 11/4" DIA., APPROX. 80" LC

- 1. SEE REF. DWG. NO. BM-4 AND BM-5 FOR IDENTIFIED ITEMS ON THE HYDRAULIC SCHEMATICS.
- 2. ALL QUANTITIES SHOWN REFLECT TOTAL ESTIMATED QUANTITIES NEEDED FOR REPAIR. CONTRACTOR TO FIELD VERIFY ALL MANUFACTURERS, MODELS, PRESSURE RATINGS AND QUANTITIES LISTED. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- 3. ALL SHOWN ITEMS TO MEET ASSOCIATED CRITERIA OR ENGINEER APPROVED EQUAL. 1. A. CLEAN, INSPECT AND COAT WITH LONG TERM 304/316 STAINLESS STEEL RUST INHIBITOR THE RIGID PIPING SHOWN IN THE TABLE. MARK LOCATION AND REPERT THE COUNTY, ANY PIPING COMPONENTS THAT CANNOT BE CLEANED, OR WHERE CLEANING RESULTED IN A WALL THICKNESS REDUCTION OF 5% OR MORE. TAKE PRECAUTIONS SUCH THAT ONLY CORROSION IS REMOVED FROM THE SURFACES, LEAVING GOOD MATERIAL INTACT. SUBMIT CLEANING PROCEDURE(S) FOR REVIEW AND APPROVAL. DO NOT USE POWER TOOLS FOR CLEANING OF PIPE.

BRIDGE NO. 124134

		REVIS	SIONS			TRAVIS M. KIMMINS, P.E.	DRAWN BY:		LEE COUN	JTY	SHEET TITLE:		REF DWG NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 87786	VR 07-24 CHECKED BY:	DEDAR		NSPORTATION		SPAN DRIVE HYDRAULIC SCHEMATIC (5 OF 5)	
						HARDESTY & HANOVER, LLC	TMK 07-24	DBITIK	THENT OF THE	MOI ORIZITADIA			BM-8
		^				5110 EISENHOWER BLVD. SUITE 310	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		
1/25	VR	/1\ REVISED NOTE 4.				TAMPA, FLORIDA 33634	VR 07-24			453997 - 1 - 58 - 01	1		SHEET NO.
						TAMEA, TEORIDA 33034	CHECKED BY:	CR 78	LEE	CN-1414-218	l	MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	D1 22
							TMK 07-24			CN-1414-218			D1-22

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SCOPE OF ELECTRICAL WORK:

1. ELECTRICAL POWER SERVICE

- A. REPLACE EXISTING ELECTRICAL SERVICE, FEEDERS 300A, METER CAN AND DISCONNECT SWITCHES. THE EXISTING SERVICE ORIGINATES AT THE FUSED DISCONNECT LOCATED AT THE EAST END OF THE BRIDGE AT THE SOUTH SIDE OF THE ROADWAY AND TERMINATES AT THE MAIN DISCONNECT (MD) SWITCH.
- B. ROUTE ELECTRICAL SERVICE CONDUCTORS AS SPECIFIED IN THE PLANS. FURNISH AND INSTALL NEW SERVICE CONDUCTORS IN EXISTING CONDUIT OF THE NORTH APPROACH TO THE ELECTRICAL ROOM MAIN DISCONNECT. CLEAN AND REMOVE DEBRIS, SAND, AND WATER FROM EXISTING CONDUIT AND JUNCTION BOXES. REPLACE 400A MAIN DISCONNECT SWITCH IN THE GENERATOR ROOM.

2. ELECTRICAL POWER SYSTEM

- A. REPLACE SELECT COMPONENTS IN THE EXISTING MOTOR CONTROL CENTER (MCC) AS SHOWN ON THE PLANS.
- B. EXISTING MOTOR CONTROL CENTER, RATED 600A HORIZONTAL BUS, 600V WITH GROUND TO REMAIN. OPERATING VOLTAGE SHALL BE 480V. THREE-PHASE. REFURBISH OR REPLACE EXISTING TIM-PLATED BUSES WITHIN IN THE MCC.
- C. REPLACE ELECTRICAL DISTRIBUTION DEVICES FOR SPECIFIC MOTOR CONTROL,
 HOUSED IN INDIVIDUAL, REMOVABLE CUBICLES. THESE CUBICLES SHALL CONTAIN;
 CIRCUIT BREAKER OR CIRCUIT PROTECTOR, NEMA MOTOR STARTER WITH THREEPHASE OVERLOAD RELAY AND THRU-DOOR RESET, TERMINAL BLOCK FOR INTERFACE WIRING,
 PILOT LIGHTS AND "HAND-OFF-AUTO" SWITCH.
- D. REPLACE LIGHTING AND ROADWAY LIGHTING TRANSFORMERS AS SHOWN IN THE PLANS AND SPECIFICATIONS.

3. TRAFFIC GATES AND SIGNALS

- A. REPLACE TRAFFIC GATES (FOUR TOTAL) AND SIDEWALK GATES (FOUR TOTAL)
 AT LOCATIONS SHOWN ON THE PLANS, FURNISH SEMAPHORE TYPE TRAFFIC GATES
 WITH VERTICAL TO HORIZONTAL GATE ARM MOVEMENT TO MATCH EXISTING.
 REPLACE EXISTING HORIZONTAL SWING TYPE SIDEWALK GATES.
- B. REPLACE MAST ARM MOUNTED TRAFFIC SIGNAL ASSEMBLIES AND DRAWBRIDGE SIGNS.
- C. REPLACE MAIN CRANK ARM SHAFT, CONNECTING ROD, AND ASSOCIATED COMPONENTS AS

4. CCTV

- A. REPLACE ALL WIRELESS CLOSED CIRCUIT CAMERAS.
- B. REPLACE ALL CAMERA MOUNTING BRACKETS WITH INTEGRAL RADIO TRANSMITTER TO MOUNT ON SIGNAL POLE IN KIND.

5. SPAN DRIVE SYSTEM

- A. REPLACE EXISTING ELECTRO-HYDRAULIC OPERATING SYSTEM INCLUDING
 TWO INVERTER DUTY PUMP MOTORS, VARIABLE SPEED MOTOR CONTROLERS, AUXILIARY
 MOTOR STARTERS, CONTROL RELAYS, PAMEL SWITCHES AND INDICATOR LIGHTS.
- B. REPLACE VARIABLE SPEED DRIVE (VSD) OF FLUX VECTOR, MICROPROCESSOR-CONTROLLED TYPE. MOTORS SHALL BE ABLE TO PRODUCE FULL LOAD TORQUE AT ANY SPEED UTILIZING VOLTAGE AND FREQUENCY CONTROL.
- C. REPLACE THE SPAN DRIVES, RELATED COMPONENTS AND BACK PANEL LOCATED IN THE EXISTING FREE-STANDING, STAINLESS STEEL ENCLOSURES (HPU-CP). STAINLESS STEEL ENCLOSURE TO REMAIN.
- D. THE SPAN DRIVES SHALL PROVIDE OVERLOAD PROTECTION FOR THE MOTORS WITH SHORT-CIRCUIT PROTECTION PROVIDED BY CIRCUIT BREAKER.
- E. INTERFACE THE VARIABLE SPEED DRIVE, (VSD), TO THE HYDRAULIC POWER UNIT (HPU).
- F. PERFORM SHOP TESTING OF THE MOTOR/DRIVE AND DEMONSTRATE FULL COMPLIANCE WITH THE TECHNICAL SPECIAL PROVISIONS.
- G. NEW DRIVE AND HYDRAULIC CONTROL SYSTEM TO PERFORM EXACTLY THE SAME AS THE EXISTING DRIVE SYSTEM

6. LIGHTING

- A. PROVIDE LIGHTING EQUIPMENT AS INDICATED IN THE PLANS, ANY DEVIATIONS FROM THE PLANS FOR FIXTURE LOCATION, TYPE, ETC. SHALL BE REQUESTED IN WRITING FOR APPROVAL BY THE ENGINEER.
- B. ALL LIGHTING ELECTRICAL SERVICE AND WIRING SHALL BE IN ACCORDANCE WITH THE PLANS AND THE NATIONAL ELECTRICAL CODE, 2023 (NEC).
- C. REPLACE SELECT LIGHTING FIXTURES WITH LED TYPE LUMINAIRE OF THE SPECIFIED WATTAGE, COLOR, AND TYPE.
- D. REPLACE ROADWAY LIGHT POLES AND LUMINAIRES AS SHOWN ON THE PLANS.
 ROADWAY LIGHT POLES TO BE REPLACED IN KIND WITH 40' POLES AND
 MONGOOSE TYPE LUMINAIRE OR APPROVED EQUAL. FIELD VERIFY. EXISTING
 ANCHOR BOLTS AND EXISTING PEDESTAL/CONCRETE FOUNDATION TO REMAIN.
 CONNECT TO EXISTING CIRCUITS. REPLACE ROADWAY LIGHTING CONDUCTORS.
 EXISTING CONDUIT TO REMAIN. CLEAN AND REMOVE DIRT, DEBRIS AND
 ACCUMULATED WATER FROM WITHIN EXISTING CONDUIT. DECOMMISSION AND
 DISCONNECT EXISTING CIRCUITS FOR ROADWAY LIGHT POLES 1 & 2 NO LONGER
 IN SERVICE. REFER TO AS-BUILTS FOR ROADWAY LIGHT POLES 1.
 - E. REPLACE GENERAL LIGHTING IN THE BASCULE PIERS AND THE CONTROL TOWER AS SHOWN IN THE PLANS. GENERAL LIGHTING FOR THE HOUSE AND PIERS SHALL BE FED FROM A CIRCUIT-BREAKER EQUIPPED LIGHTING PAME!

7. NAVIGATIONAL AIDS

- A. REPLACE ALL SPAN MOUNTED LED CLEARANCE LIGHTS, FENDER MOUNTED LED PIER LIGHTS, AND FENDER MOUNTED HID CLEARANCE GAUGE LIGHTS. REPLACE ALL CONDUIT, WIRING AND JUNCTION BOXES OF NAVIGATION LIGHTING SYSTEM
- B. EXISTING NAVIGATION LIGHTING UPS BATTERY BACK-UP SYSTEM TO BE REMAIN. REPLACE AIR HORN AND COMPRESSOR. VHF MARINE RADIO AND ANTENNA, AND COMPLETE WIRELESS EQUIPPED WEATHER STATION AND INDOOR DISPLAY.

8 SIIMP PIIMP

- A. REPLACE SUMP PUMP AND SUMP PUMP CONTROLLER. REPLACE SUMP PUMP CONDUIT, FLEXIBLE CABLE, WIRING, AND JUNCTION BOX FROM SUMP PUMP TO SUMP PUMP CONTROLLER.
- 9. SUBMARINE CABLES
 - A. REPLACE SUBMARINE CABLE AND CONDUIT SLEEVE SUPPORTS.
 RESEAL BOTH ENDS OF SUBMARINE CABLE CONDUIT SLEEVES.

ELECTRICAL GENERAL NOTES

- 1. CONFORM TO ALL AASHTO, NEC, UL, IEEE AND NEMA CODES STANDARDS AND PRACTICES.
- 2. ELECTRICAL DEVICES AND EQUIPMENT ARE SHOWN SYMBOLICALLY ON THE PLANS. THE USE OF SYMBOLS AND NOTATIONS (OR THE OMISSION THEREOF) DO NOT RELIEVE THE CONTRACTOR FROM FURNISHING A COMPLETE AND FULLY FUNCTIONAL SYSTEM. FIELD LOCATE DEVICES AND EQUIPMENT TO FACILITATE ACCESSIBILITY WITH RESPECT TO OPERATION AND MAINTENANCE CONDITIONS.
- 3. ALL MOUNTING HARDWARE AND FABRICATED SUPPORTING FRAMEWORKS SHALL BE
 300 SERIES STAINLESS STEEL. ALL EXTERIOR BOXES SHALL BE S.S. NEMA 4X TYPE.
 ALL EXTERIOR MOTORS, BRAKES, ETC. SHALL BE TOTALLY ENCLOSED AND WATERPROOF.
 WHERE SPECIFIED, MATERIALS SHALL NOT BE SUBSTITUTED UNLESS REQUESTED IN
 WRITING AND APPROVED BY THE ENGINEER. UNAPPROVED MATERIALS WILL BE
 REMOVED AND APPROVED MATERIALS INSTALLED AT NO ADDITIONAL COST TO THE
 DEPARTMENT.
- 4. MINIMUM CONDUIT SIZE IS ¾ INCH. ALL WIRES SHALL BE THHW, THW, OR XHHW UNLESS OTHERWISE NOTED. MINIMUM WIRE SIZE IS #12 AWG FOR CONTROL AND #10 AWG FOR POWER
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF A COMPLETE, INTEGRATED, GROUNDING AND BONDING SYSTEM FOR ALL NEW EQUIPMENT AND DEVICES TO BE REPLACED PER NEC (ART. 250).

10. COMMUNICATIONS SYSTEM

A. REPLACE COMMUNICATIONS SYSTEM, NEMA CLASS 1, SINGLE-PARTY MULTIPAGE/PARTY LINE TYPE WITH HANDSETS, AMPLIFIERS AND SPEAKERS AT LOCATIONS SHOWN ON THE PLANS.

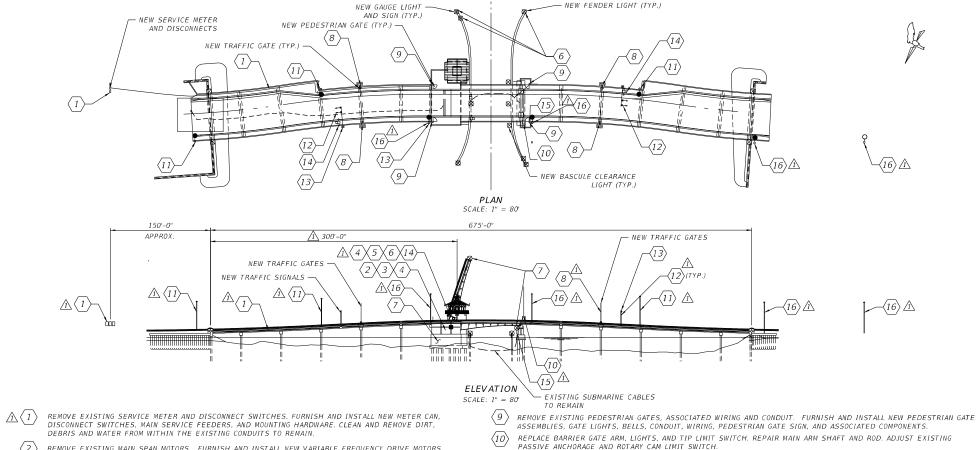
11. EXISTING CONDITIONS

A. REFER TO EXISTING BRIDGE PLANS AND VISIT THE SITE TO VERIFY EXISTING FIELD CONDITIONS INCLUDING BUT NOT LIMITED TO EQUIPMENT QUANTITIES, WIRE NUMBERS, CONDUIT SIZES, CONDUCTOR SIZES, AND DIMENSIONS, FOR ALL EQUIPMENT TO BE REPLACED IN KIND, EXISTING BRIDGE PLANS AND ELECTRICAL/HYDRAULIC CONTROL SCHEMATICS ARE PROVIDED FOR REFERENCE ONLY. CHANGES OR MODIFICATIONS TO THE EXISTING CONTROL AND HYDRAULIC SYSTEMS MAY OR MAY NOT BE DEPICTED ON THE EXISTING AS-BUILT DRAWNINGS. ADJUSTMENTS MAY BE REQUIRED DURING FIELD TESTING.

BRIDGE NO. 124134

		REVIS	SIONS	3		MARCO A. LARA, P.E.	DRAWN BY:		LEE COU	VTY	SHEET TITLE:		REF, DWG, NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 78414 HARDESTY & HANOVER, LLC	PR 06-24 CHECKED BY: MAL 06-24	DEPAI		ANSPORTATION		ELECTRICAL GENERAL NOTES	BE - 1
1/25	PCR	NUPDATED SCOPE ITEM NOTES.				5110 EISENHOWER BLVD, SUITE 310 TAMPA, FLORIDA 33634	DESIGNED BY: PR 06-24	ROAD NO.	COUNTY	453997 - 1 - 58 - 01	PROJECT NAME:		SHEET NO.
						TAMPA, FLORIDA 33634	CHECKED BY: MAL 06-24	CR 78	LEE	CN-1414-218		MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	B1-25

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- REMOVE EXISTING MAIN SPAN MOTORS. FURNISH AND INSTALL NEW VARIABLE FREQUENCY DRIVE MOTORS.
- REMOVE EXISTING AUXILIARY PUMP MOTOR. FURNISH AND INSTALL NEW AUXILIARY PUMP MOTOR.
- REMOVE EXISTING MOTOR DRIVES AND ASSOCIATED COMPONENTS, FURNISH AND INSTALL NEW VARIABLE FREQUENCY DRIVES, STARTERS, CONTACTORS, RELAYS, SURGE SUPPRESSION DEVICES, AND ASSOCIATED COMPONENTS. DRIVE CABINET ENCLOSURE TO REMAIN.
- REMOVE SELECT ELECTRICAL COMPONENTS FROM EXISTING MOTOR CONTROL CENTER. FURNISH AND INSTALL NEW $\langle 5 \rangle$ COMPONENTS IN MCC BUCKETS INCLUDING STARTERS, TERMINAL BLOCKS, CIRCUIT BREAKERS, SURGE SUPPRESSORS, SWITCHES, TRANSFORMERS, AND ASSOCIATED COMPONENTS. MOTOR CONTROL CENTER ENCLOSURE TO REMAIN.
- REMOVE EXISTING NAVIGATION LIGHTING SYSTEM. FURNISH AND INSTALL NEW FENDER LIGHTS, GAUGE LIGHTS, (6) BASCULE SPAN CLEARANCE LIGHTS, CONDUIT, WIRING, JUNCTION BOXES AND ASSOCIATED COMPONENTS.
- REMOVE SELECT LIGHT FIXTURES, RECEPTACLES, CONDUIT, WIRING AND JUNCTION BOXES. FURNISH AND INSTALL NEW LIGHT FIXTURES, EMERGENCY LIGHTS, CONDUIT, WIRING, LIGHT SWITCHES, AND JUNCTION BOXES IN PIT AREA.
- REMOVE EXISTING TRAFFIC GATES, ASSOCIATED WIRING AND CONDUIT. FURNISH AND INSTALL NEW TRAFFIC GATE ASSEMBLIES, GATE ARM LIGHTS, STROBE LIGHTS, GONG, CONDUIT, WIRING AND ASSOCIATED COMPONENTS.

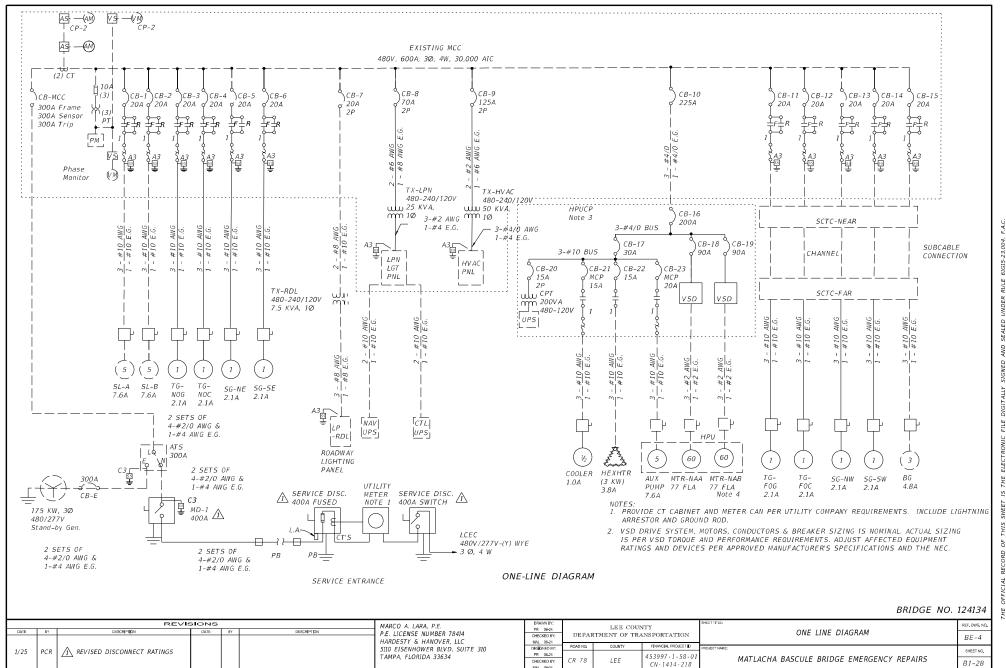
- REMOVE EXISTING BASE, FURNISH AND INSTALL NEW ROADWAY LIGHT POLE WITH GFCI RECEPTACLE, LUMINAIRE, BASE AND WIRING, EXISTING ANCHOR BOLTS AND EXISTING PEDESTAL/CONCRETE FOUNDATION TO REMAIN. CONNECT TO EXISTING
- REMOVE EXISTING TRAFFIC SIGNAL ASSEMBLIES AND DELIVER SALVAGED MATERIAL TO LEE COUNTY, FURNISH AND INSTALL NEW TRAFFIC SIGNAL ASSEMBLIES, CONDUIT, WIRING, JUNCTION BOXES AND ASSOCIATED COMPONENTS. ADD DRAWBRIDGE AHEAD SIGN. EXISTING MAST ARMS TO REMAIN. SEE FDOT STANDARD INDEX T508-T01.
 - REMOVE EXISTING CCTV SYSTEM. FURNISH AND INSTALL NEW CCTV CAMERAS, CONDUIT, WIRING, JUNCTION BOXES AND ASSOCIATED COMPONENTS AND MOUNTING BRACKETS.
 - $\langle 14 \rangle$ REMOVE EXISTING PA SYSTEM AT LOCATIONS ON THE PLANS. FURNISH AND INSTALL NEW PA INTERCOM DEVICES, CONDUIT, WIRING, JUNCTION BOXES AND ASSOCIATED COMPONENTS AND MOUNTING BRACKETS.
 - REPAIR AND REPLACE EXISTING SUBMARINE CABLE SLEEVE SUPPORTS. RESEAL SUBMARINE CABLE CONDUIT SLEEVES AT BOTH ENDS.
 - REPLACE ROADWAY LIGHT LUMINAIRE AND WIRING. EXISTING POLE TO REMAIN.

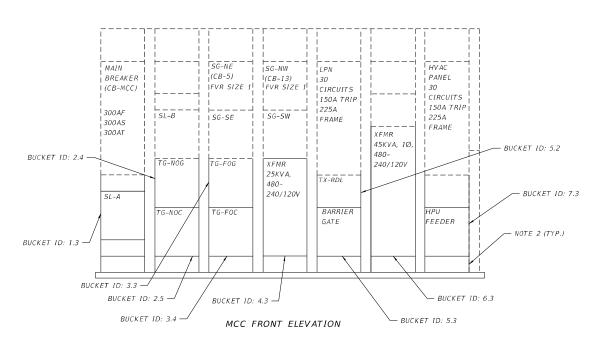
BRIDGE NO. 124134

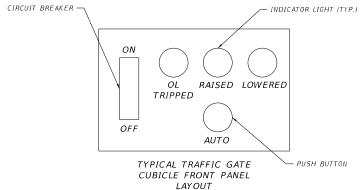
		REVI	slovs			MARCO A. LARA, P.E.	DRAWN BY:		LEE COUN	NTY	SHEET TITLE:		REF, DWG, NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 78414	PR 06-24 CHECKED BY:	DEDAT		ANSPORTATION		ELECTRICAL PLAN AND ELEVATION	
						HARDESTY & HANOVER, LLC	MAL 08-24						BE - 3
1/25	l ncn	△ REVISED CALLOUT NUMBERS.				5110 EISENHOWER BLVD. SUITE 310	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
1/25	PUR	REVISED NOTE 12.	1			TAMPA, FLORIDA 33634	PR 06-24			453997 - 1 - 58 - 01		MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	O'ILL' NO.
							CHECKED BY:	CR 78	LEE	CN-1414-218		MAILACHA DASCULE DRIDGE EMERGENCI REPAIRS	B1-27
				1			MAL 08-24			1	1		

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- 1. REFER TO MOTOR CONTROL CENTER MATERIALS LIST ON REF. DWG NO. BE-6 FOR MCC BUCKET ID LIST AND COMPONENTS TO BE REPLACED.
- 2. REFURBISH AND RECONDITION EXISTING MOTOR CONTROL CENTER, CLEAN AND REMOVE DIRT/DEBRIS AND SURFACE CORROSION WITHIN INTERIOR AND EXTERIOR OF MOTOR CONTROL CENTER BUCKETS AND BASE. REPLACE INTERNAL COMPONENTS (BUS BARS, ETC.) AS NEEDED.
- ↑ 3. MAIN BREAKERS, PANELBOARDS, SELECT BUCKETS, AND MCC ENCLOSURE TO REMAIN.

REVISIONS	MARCO A. LARA, P.E.	DRAWN BY:	LEE COUN	TY	SHEET TITLE:	REF, DWG, NO.
DATE BY DESCRIPTION DATE BY	P.E. LICENSE NUMBER 78414 HARDESTY & HANOVER, LLC		PARTMENT OF TRAI		MCC DETAILS	BE-5
1/25 PCR 1/2 REVISED NOTE 3		MAL 06-24 DESIGNED BY: ROAD N PR 06-24		FINANCIAL PROJECT ID 453997 - 1 - 58 - 01	Process register	SHEET NO.
	TAMPA, FLORIDA 33634	CHECKED BY: CR 7	78 LEE	CN-1414-218		B1-29

				мсс ма	TERIALS LIST 🛕	7
BUCKET					CONTENTS PER	BUCKET
ID	DESCRIPTION	TYPE	QTY	Part Number	MANUFACTURER	DESCRIPTION
6.3	45KVA-XFMR	TRANSFORMER	1	Custom XFMR	EATON	45KVA, 1PH, 440/480V, 125A PRI., 150A SEC.
4.3	25KVA-XFMR	TRANSFORMER	1	Custom XFMR	EATON	45KVA, 1PH, 440/480V, 70A PRI., 100A SEC.
2.4	TG-NOG	FVR, CB,	13	XBUT6	EATON	TERMINAL BLOCK 8.2MM (1 UNIT)
2.5	TG-NOC	SIZE 1, 1HP,	1	XBACUT10	EATON	TERMINAL BLOCK END COVER (1 UNIT)
3.1	5G-NE ∕ſ	TYPE F216	2	XBAES35T	EATON	TERMINAL BLOCK END BLOCK (1 UNIT)
3.2	SG-SE ∕∧]	2	XBMZB8	EATON	TERMINAL MARKER SHEETS 8.2MM (STRIP OF 10)
3.3	TG-FOG		1	HMCP015E0C	EATON	HMCP CB, 3P, 15A TRIP
3.4	TG-FOC		1	AN59DN0A5E005	EATON	3 POLE, FVR STARTER, SIZE 1 (=HMCP) W/ RESET BUTTON
			2	C320T51	EATON	TRANSIENT SUPPRESSOR 24-120V, COIL MOUNT
4.1	56-N₩ /\		1	10250T181LRP06	EATON	I.L. LED 30MM W/ TRANS RD
4.2	SG-SE ∕∖		1	10250T181LRP06	EATON	I.L. LED 30MM W/ TRANS GRN
5.3	BG]	1	10250T181LRP06	EATON	I.L. LED 30MM W/ TRANS AMB
		1	1	10250T22LB	EATON	S.S. 30MM MAINT. BLACK LEVER 3 POS W/ CAM 3
1.3	SL-A	FVR, CB,	13	XBUT6	EATON	TERMINAL BLOCK 8.2MM (1 UNIT)
2.3	SL-B /	SIZE 1, 5HP,	1	XBACUT10	EATON	TERMINAL BLOCK END COVER (1 UNIT)
		TYPE F216	2	XBAES35T	EATON	TERMINAL BLOCK END BLOCK (1 UNIT)
		1	2	XBMZB8	EATON	TERMINAL MARKER SHEETS 8.2MM (STRIP OF 10)
		1	1	HMCP015E0C	EATON	HMCP CB, 3P, 15A TRIP
		1	1	AN59DN0A5E005	EATON	3 POLE, FVR STARTER, SIZE I (=HMCP) W/ RESET BUTTON
		1	2	C320TS1	EATON	TRANSIENT SUPPRESSOR 24-120V, COIL MOUNT
		1	1	10250T181LRP06	EATON	I.L. LED 30MM W/ TRANS RD
		1	1	10250T181LRP06	EATON	I.L. LED 30MM W/ TRANS GRN
		1	1	10250T181LRP06	EATON	I.L. LED 30MM W/ TRANS AMB
		1	1	10250T22LB	EATON	S.S. 30MM MAINT. BLACK LEVER 3 POS W/ CAM 3
7.3	HPUCP FEEDER	СВ	1	HFD3225	EATON	HFD TYPE CIRCUIT BREAKER, 225A TRIP
5.2	RDWY LGT FEEDER	СВ	1	HFD3020	EATON	HFD TYPE CIRCUIT BREAKER, 20A TRIP

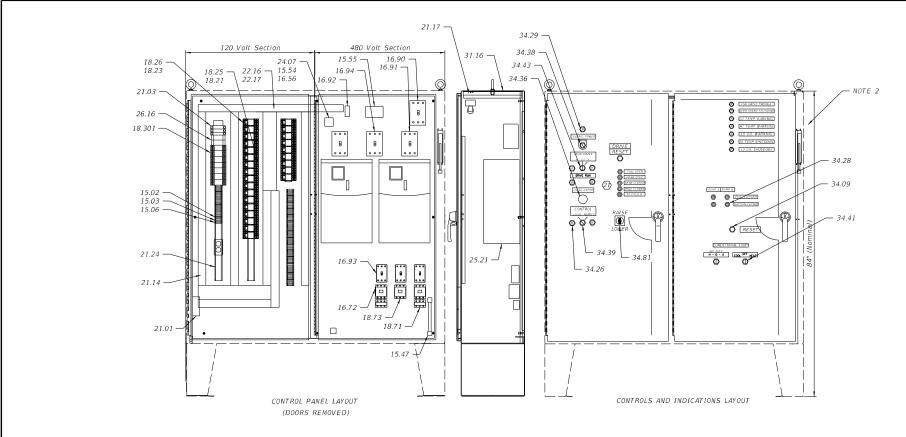
- 1. REFER TO MCC DETAILS ON REF. DWG. NO. BE-5 FOR ADDITIONAL DETAILS.
- 2. ALL QUANTITIES SHOWN REFLECT ESTIMATED QUANTITIES REQUIRED FOR THE REPAIR. CONTRACTOR TO FIELD VERIFY ALL MANUFACTURER'S MODELS AND QUANTITIES LISTED. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- 3. ALL COMPONENTS SHOWN TO MEET ASSOCIATED CRITERIA OR ENGINEER APPROVAL EQUAL.

BRIDGE NO. 124134

		REVI	SIONS			MARCO A. LARA, P.E.	DRAWN BY;		LEE COUN		SHEET TITLE:	MOS MATERIALS AST	REF, DWG, NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 78414	PR 06-24 CHECKED BY:	DEDAT		NSPORTATION		MCC MATERIALS LIST	
						HARDESTY & HANOVER, LLC	MAL 08-24	DBITH	KIMBAT OF THE	MINDI ORTHITION			BE - 6
1			l			5110 EISENHOWER BLVD. SUITE 310	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		CUESTAIN
1/25	PCR	/1\ UPDATED MATERIALS LIST	l			TAMPA, FLORIDA 33634	PR 06-24			453997 - 1 - 58 - 01		MATIACUA DACCULE DRIDGE EMERCENCY DEDAIDS	SHEET NO.
1			l			178877, 72078271 33037	CHECKED BY:	CR 78	LEE	CN-1414-218		MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	B1-30
							MAL 08-24			CN-1414-216			D1 50

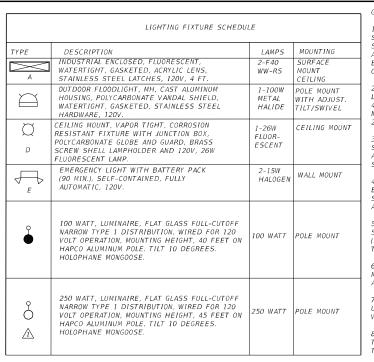
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- 1. INDICATING LIGHTS SHALL BE 30.5MM DIAMETER, PUSH TO TEST TYPE.
- 2. REPLACE COOLING FANS AND FILTERS FOR INTERNAL ELECTRONICS.
- 3. EXISTING ENCLOSURE TO REMAIN. DISCONNECT AND RECONNECT ALL
 EXISTING WIRING. CLEAN AND REFURBISH DRIVE ENCLOSURE TO LIKE
 NEW CONDITION. REMOVE INTERIOR AND EXTERIOR SURFACE CORROSION.
- 4. REPLACE ALL COMPONENTS IN DRIVE CABINET. REFER TO REF. DWG. NO. BE-8 FOR MATERIALS LIST SHEET FOR ADDITIONAL DETAILS. COMPONENTS TO BE REPLACED IN-KIND USING SAME MANUFACTURER.
- ⚠ 5. FUNCTIONALITY AND OPERATION OF THE NEW HYDRAULIC CONTROL AND DRIVE SYSTEM TO MATCH THE PERFORMANCE OF THE EXISTING SYSTEM.

		REVIS	SIONS			MARCO A. LARA, P.E.	DRAWN BY:		LEE COU	NTY	SMEET TITLE:	UVBBAULIS CONTROL BAUEL LAVOUT	REF, DWG, NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 78414	PR 06-24 CHECKED BY:	DEPAR		ANSPORTATION		HYDRAULIC CONTROL PANEL LAYOUT	
						HARDESTY & HANOVER, LLC	MAL 06-24						BE - 7
1/25	PCR	↑ REVISED NOTE 5				5110 EISENHOWER BLVD, SUITE 310	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
1/23	I'cn	ZIX NEVISED NOTE S				TAMPA, FLORIDA 33634	PR 08-24	CD 70	LEE	453997 - 1 - 58 - 01		MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	
							CHECKED BY: MAL 08-24	Ch /0	LLL	CN-1414-218		PHATE PROTECTION BASES EN BOLL EMERICENCY METALING	B1-31
						•		CHCEDE		¢DATE¢	eTIMEs	¢EIIE¢	



LIGHTING FIXTURE SCHEDULE

100 WATT HPS-

40' ALUMINUM

STREET POLE

RECEPTACLE BOX

NOTE 2

REINFORCED BANNER

TYPE 1 LUMINAIRE

100 WATT HPS -

TYPE 11

LUMINAIRE

GENERAL NOTES: 1

- 1. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION AND DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THESE MUST SPECIFICALLY INCLUDE:
- A. LUMINAIRE PHOTOMETRICS
- B. POLE STRENGTH CALCULATIONS
- C. ANCHOR BOLT SPECIFICATIONS AND BOLT CIRCLE DIAMETER
- 2. UTILITY OWNERS:
- LEE COUNTY ELECTRIC COOPERATIVE
- 4980 BAYLINE DRIVE NORTH FORT MYERS FL 33917
- 239-656-2300
- 3. POLES, LUMINAIRES AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH ASSHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS". AND SHALL HAVE BEEN TESTED BY FHWA APPROVED METHODS. CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS
- 4. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE AND THE STATE OF FLORIDA DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER THE NEC REQUIREMENTS
- 5. FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHT POLE. TAGS SHALL BE 2"X12" IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND, ATTACHED WITH RIVETS (NOT SCREWS) NUMBERS SHALL BE AS SHOWN ON THE POLE DATA SHEET SEE POLE IDENTIFICATION TAG DETAIL. COST OF TAGS SHALL BE INCLUDED IN THE PAY ITEM FOR LIGHT POLE COMPLETE.
- 6. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET AND MEET MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL BE LESS THAN RECOMMENDED BY THE NEC OR NESC FOR CABLE USED.
- 7. ALL ELECTRICAL EQUIPMENT SHALL BE NEW, OF CURRENT MODEL, FROM A SINGLE MANUFACTURER. UL LISTED OR LABELED, SUITABLE FOR THE INTENDED APPLICATION AND INSTALLED IN ACCORDANCE WITH NFPA 70 (NEC).
- 8. SPLICES AND CONNECTIONS SHALL BE MADE IN TRANSFORMER BASES AND EMBEDDED PULL BOXES. THE CONNECTION MADE AT THESE POINTS SHALL BE COMBINATION SPLICES AND FUSE HOLDER FEEDS TO LIGHTS AND RECEPTACLES SHALL BE PROTECTED WITH EDCO SHAI203 SURGE SUPPRESSORS.

3

— CIRCUIT NUMBER

POLE NUMBER

 \bigcirc

NO LONGER IN SERVICE

LOAD CENTER

DESIGNATION

POLE IDENTIFICATION TAG DETAIL SEE GENERAL NOTE 5

(N.T.S.)

45'

POLE DATA /1

NOTE 4

В

FASTEN WITH RIVETS

TUM.

250

OR ARM WATTAGE

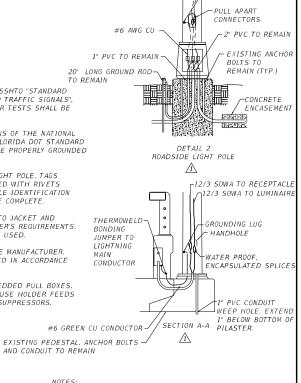
(NO SCREWS)

DIST.

TOP

CKT.

B-1



GROUNDING LUG

NOTES:

- 1. FURNISH LIGHT FIXTURES WITH IN-KIND REPLACEMENTS.
- ↑ 2. PROVIDE 20A GFCI RECEPTACLE WITH SPRING LOADED COVER PLATE AND WEATHER PROOF ENCLOSURE FOR FULL TIME CONNECTED PLUG. CONNECT TO EXISTING CIRCUITS.
- 3. ROADSIDE POLE WITH FRANGIBLE, TRANSFORMER TYPE BASE.
- 4. DECOMMISSION AND DISCONNECT EXISTING CIRCUITS FOR ROADWAY LIGHT POLES 1 & 2 NO LONGER IN SERVICE.

ROADWAY LIGHTING DESIGN CRITERIA: AASHTO ROADWAY CLASSICIATION AVERAGE INTENSITY UNIFORMITY RATIO AVG./MIN MAX./MIN RATIO

WIND SPEED

LOCAL INTERMEDIATE 0.5 F.C. 6:1 OR LESS 10:1 OR LESS 110 MPH

BRIDGE NO. 124134

REVISIONS	MAI	CO 4 140	1 0 5			DRAWN BY;	SH
		•					
DETAIL 1 A ROADSIDE LIGHT POLE A BRIDGE MOUNTED LIGHT POLES	9	B-1	TOP	250	45'	NOTE 2	LUMINAIRE ONLY
A DETAIL 1 A DETAIL 3	8	B-2	TOP	100	40'	NOTE 2	LUMINAIRE ONLY
DETAIL 2	7	B-1	TOP	100	40'	NOTE 2	COMPLETE POLE
	6	B-2	TOP	100	40'	NOTE 2	LUMINAIRE ONLY
LANE. EXISTING CONCRETE SEE SECTION A-A OF THE FOUNDATION AND ANCHOR	5	B-1	TOP	100	40'	NOTE 2	LUMINAIRE ONLY
FROM TRAVEL BASE LANF SEE SECTION A-A	4	B-2	TOP	100	40'	NOTE 2	COMPLETE POLE
SETBACK FRANGIBLE TRANSFORMER	3	B-1	TOP	100	40'	NOTES 2 & 3	COMPLETE POLE
20' MINIMUM	2	B-2	TOP	250	45'	NOTE 4	NO LONGER IN SERVICE

POLE

NO

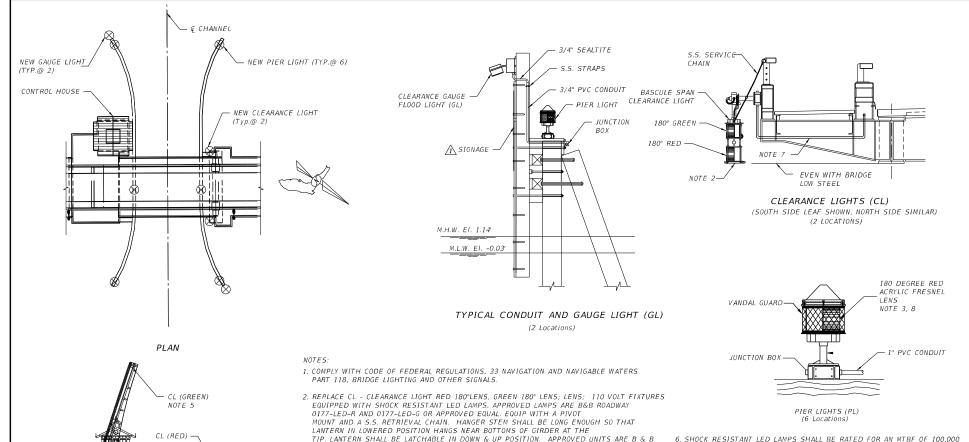
REINFORCED BANNER

RECEPTACLE BOX

NOTE 2

40' POLE

		REVIS	SIONS			MARCO A. LARA, P.E.	DRAWN BY:		LEE COU	NTY	SHEET TITLE:	LIQUETING COUEDINE	REF, DWG, NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 78414	PR 06-24 CHECKED BY:	DEDAR		ANSPORTATION		LIGHTING SCHEDULE	
						HARDESTY & HANOVER, LLC	MAL 08-24				1		BE - 11
1/25	PCR	ADDED NOTES, DETAILS, AND				5110 EISENHOWER BLVD. SUITE 310	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
1/23	1,00	TABLES				TAMPA, FLORIDA 33634	PR 06-24			453997 - 1 - 58 - 01		MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	O'ILL' NO
1							CHECKED BY:	CR /8	LEE	CN-1414-218		MAILACHA DASCULE BRIDGE EMERGENCI REFAIRS	B1 - 35
							MAL 06-24	DFOSSO		2/3/2025	9:54:22 AM	c:\hhprod\dms95576\B1Elec-LightingSched.dgn	



- 3. REPLACE PL RED LED LAMPS, TAMPER RESISTANT, CAST ALUM. END. APPROVED UNITS ARE B & B ROADWAY MS53-SERIES OR APPROVED EOUAL. LAMPS ARE B&B ROADWAY 0177-LED-R. PROVIDE TAMPER RESISTANT ACCESS HATCHES. ALL PIER LIGHTS SHALL MEET U.S. COAST GUARD REQUIREMENTS FOR VISABILITY.
- 4. REPLACE GL CLEARANCE GAUGE FLOOD LIGHT 35W HPS, 110V, WET LOCATION, DIE CAST ALUM. ENCL., CAST ALUM. JB., HEAVY DUTY. APPROVED UNITS ARE B & B ROADWAY GL-35-115V OR APPROVED EQUAL.

ROADWAY MS-66-SERIES AND MSC301-SERIES, RESPECTIVELY, OR EQUAL, ALL

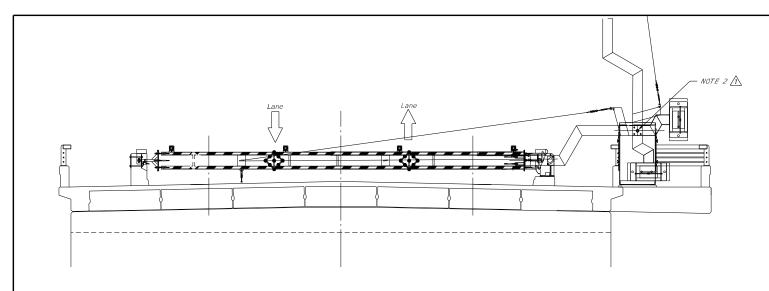
CLEARANCE LIGHTS SHALL MEET U.S. COAST GUARD REQUIREMENTS FOR VISABILITY.

5. REPLACE VERTICAL CLEARANCE GAUGE AND "CLEARANCE AT CENTER" SIGNS.

ELEVATION

- 6. SHOCK RESISTANT LED LAMPS SHALL BE RATED FOR AN MTBF OF 100,000 HOURS. THEY SHALL CONSIST OF 48 INDIVIDUAL LED BEAMS ARRANGED IN FOUR TIERS. LAMP LENS SHALL BE UV POLYCARBONATE. CANDELA OUTPUT SHALL BE NOT LESS THAN 78 FOR RED AND 270 FOR GREEN. LAMP SHALL HAVE AN INTEGRAL SURGE SUPPRESSOR WITH A CLAMPING VOLTAGE RATING OF NOT LESS THAN 380V @ 2A. THE LAMP LENS AND TIERS SHALL BE FILLED WITH A SHOCK OBSORBING MATERIAL THAT IS OPTICALLY INTERT. LAMPS SHALL HAVE BEEN TESTED FOR A MINIMUM OF SIX MONTHS IN MOVABLE BRIDGE APPLICATIONS.
- 7. PROVIDE SUBMITTAL TO INCLUDE STAINLESS STEEL MOUNTING HARDWARE AND BRACKETS. PROVIDE LOCATIONS. MOUNT CL FIXTURE 2-0" MIN. TO 3'-0" MAX. FROM TIP OF LEAF. INSTALL 3/4" PORS CONDUIT, PROVIDE PENETRATIONS.
- 8. REPLACE ALL CONDUIT, JUNCTION BOXES, MOUNTING SUPPORTS, FOR COMPLETE NAVIGATION LIGHTING SYSTEM.

		REVIS	SIONS			MARCO A. LARA, P.E.	DRAWN BY:		LEE COU		SHEET TITLE:		REF, DWG, NO.	o.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 78414	PR 06-24 CHECKED BY:	DEPAR		ANSPORTATION		NAVIGATION LIGHT DETAILS		
						HARDESTY & HANOVER, LLC	MAL 06-24						BE - 14	
1/25	000	△ ADDED SIGNAGE TO				5110 EISENHOWER BLVD, SUITE 310	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.	7
1/25	PCK	GAUGE LIGHT DETAIL				TAMPA, FLORIDA 33634	PR 06-24	CD 70	155	453997 - 1 - 58 - 01		MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS		-
1							CHECKED BY: MAL 08-24	CR /8	LEE	CN-1414-218		MATERIAL DASCOLL BRIDGE EMERGENCY RETAINS	B1-38	- 1
	_					I	NP4L 00-24	*******		101751	-T1115 -	25152		_



A ELEVATION AT GATE

MAJOR PARTS LIST A

QTY	STD PART #	DESCRIPTION
1	BR6-P048	CRANK, MAIN ARM SHAFT
1	BR6-P033	ROD, CONNECTING 1.250 4150 HR NEALOY
1	BV 4-P021	HAND CRANK, MANUAL OPERATION
1	BV 4-P022	DRILL CRANK, MANUAL OPERATION
1	BRGRE-1.25-FRH	ROD END, RH SPHERICAL 1.25"-12
1	BRGRE-1.25-FLH	ROD END, LH SPHERICAL 1.25"-12
1	NUT1.2-12-JAMLH	1½"-12 LH JAM NUT
2	NUT 1.2-12-NY	1.25"-12 NUT W/ NYLON INSERT
1	BLT 1.25-12X3.5	1.25"-12 X 3.5 HHCS (MAIN ARM CRANK)
12	BLTGA.5-13X1.25	1/2"-13 X 1.25 GALV. HHCS (BRG MTG PL)
3	BLT.5-13X1.5-5	1/2"-13 X 1.5 HHCS (MAIN ARM CRANK)
1	NUT 1.2-12-JAM	1½"-12 RH JAM NUT

NOTES:

1. ADJUST AND REPAIR EXISTING PASSIVE ANCHORAGE. COORDINATE WITH INSTALLATION OF NEW BARRIER GATE ARM AND LIMIT SWITCH.

1. BARRIER DOWN LIMIT SWITCH LOCATED ON TIP OF ARM TO SENSE ANCHOR.

3. MAKE ADJUSTMENTS TO EXISTING ROTARY LIMIT SWITCH FOR OPERATION OF BARRIER GATE. REFER TO AS-BUILT PLANS FOR LIMIT SWITCHE SWITCH DEVELOPMENT.

riangle 4. REPLACE MAIN CRANK ARM SHAFT, CONNECTING ROD, AND ASSOCIATED COMPONENTS AS IDENTIFIED ON THE MAJOR PARTS LIST. BARRIER GATE HOUSING AND GATE ARM TO REMAIN.

5. FIELD VERIFY EXISTING CONDITIONS AND EQUIPMENT TO REPLACED OR REPAIRED.

REVISIONS					MARCO A. LARA, P.E.	DRAWN BY:				SMEET TITLE:		REF, DWG, NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. LICENSE NUMBER 78414	PR 06-24 CHECKED BY:	DEPARTMENT OF TRANSPORTATION		BARRIER GATE DETAILS			
1/25 PC		MUPDATED DETAILS AND SCOPE OF WORK				HARDESTY & HANOVER, LLC	MAL 06-24						BE - 15
	PCR					5110 EISENHOWER BLVD, SUITE 310	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
						TAMPA, FLORIDA 33634	33634 PR 08-24	CR 78		453997 - 1 - 58 - 01		MATLACHA BASCULE BRIDGE EMERGENCY REPAIRS	
							CHECKED BY: MAL 08-24	Ch /o		CN-1414-218		THE ENGINE BUSCOLE BRIDGE EMERGENCY REPARTS	B1-39
								pracea		1/31/2025	1-61-22 DM	c:\hhnrod\dmc95576\R1Fler-GateRarrier.dm	•