



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

May 11, 2021

SCO ID No. 19-20032-02A

## ADDENDUM No. 1

### NCDOT Cherry Branch Ferry Electrical Upgrades

ITEM	REFERENCE	DESCRIPTION
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#### General

- |    |                               |  |
|----|-------------------------------|--|
| 1. |                               | A Pre-Bid Conference was held in the Training Room at the NCDOT Cherry Branch Ferry Facility on May 6, 2021 at 2:00 PM. See Attachment 'A' to this Addendum for the "Pre-Bid Conference Record of Attendance".   |
| 2. | General Conditions Article 38 | Refer to "Instructions to Bidders and General Conditions of the Contract" Article 38 – Use of Premises. Add the following as Paragraph 'e': "The United States Coast Guard requires TWIC (Transportation Workers Identification Credential) to work unassisted at this ferry facility. This contract requires one person working with each operation (can oversee up to 5 non-TWIC workers) present at all times during construction with a valid TWIC identification card." |

#### Specifications:

- |    |               |  |
|----|---------------|--|
| 1. | Section 16491 | Refer to Specification Section 16491 - Dry Type Transformers. Delete this section in its entirety, and insert Attachment 'B' which modifies Subsection 2.02 "Transformer". |
|----|---------------|--|

#### Drawings:

- |    |             |   |
|----|-------------|---|
| 1. | Drawing E-1 | Refer to Drawing E-1. Provide new Note 17 as follows: "Provide temporary power from Station #3 Panel LC-2. Provide 60/2 QO breaker in existing load center for Station #1 dock leveler while Station #2 is undergoing demolition. Provide 6/3 with ground cable. Lay cable on bulkhead until Station #2 is complete." See Attachment 'C'. |
|----|-------------|---|

2. Drawing E-2 Refer to Drawing E-2. Provide new note at Generator Building as follows: "Provide 8"x8"x24" stainless steel NEMA 4-x wire gutter on exterior of Generator Building for new conduits. Provide 24"x24"x8" NEMA 1 pull box on inside of building. Route conduits to *MDP*." See Attachment 'D'.
  
3. Drawing E-7 Refer to Drawing E-7. Provide additional note for conduit 10 on conduit & cable schedule as follows: "Provide flexible weatherproof control cable secured to ferry ramp for traffic arm & dock leveler operation." See Attachment 'E'.

Mark D. Gibson RA  
Architectural Supervisor  
NCDOT Facilities Design Unit  
919-707-4550

Cc: Michael D. Mountcastle PE, Director NCDOT Facilities Management Unit  
Scott E. Cooke PE, LJB, Inc.  
Brian M. Ross PE, Ross Linden Engineers PC  
Ronald E. Pledger PE, Dibble & Pledger PA

**PRE-BID  
MEETING  
RECORD OF  
ATTENDANCE**



**FACILITIES MANAGEMENT UNIT  
FACILITIES DESIGN UNIT**

**ATTACHMENT 'A'**

1525 Mail Services Center  
RALEIGH, NC 27699-1525  
(919) 707-4540

1 S. Wilmington Street  
Raleigh, NC 27601  
FAX (919) 715-0399

SCO ID #19-20032-02A

**DATE:** May 6, 2021

**TIME:** 2:00 PM

**PROJECT:** NCDOT Cherry Branch Ferry Electrical Upgrades

**SUBJECT:** Mandatory Pre-Bid Conference

NAME:	Company	Phone	Email
1. Mark Gibson RA	NCDOT Facilities Design Unit	919-707-4550	mdgibson1@ncdot.gov
2. Jack Williams	Williams Electric	252-788-3445	jwilliams15@cc-pp.com
3. Mike Williams	Williams Electric Co.	252-728-3445	micahw879@gmail.com
4. RON PLEDGER	DIBBLE & PLEDGER	252-946-3320	rpledger@dibbleandpledger.com
5. Kary Alexander	Piney Green Electric	910-353-1944	pineygreenelectric@gmail.com
6. JIM SABINO	PRIMUS STRUCTURES	252-503-7070	JIM@PRIMUSSTRUCTURES.COM
7. JOHN ABEL	NCDOT - FERRY	252-482-1851	JABEL@NCDOT.GOV
8. ERIC SEDLACEK	NCDOT - FERRY	252-439-2999	essedlacek@ncdot.gov
9. Lance Vinslow	NCDOT - Ferry	<del>252-621-6250</del> 252-621-6250	lvinslow@ncdot.gov
10. Brian Doliber	NCDOT - Ferry	252-621-6251	bcdoliber@ncdot.gov
11. George Bryson	NCDOT - Ferry	252-763-7025	gdbryson@ncdot.gov
12. MARY BETH ELFERS	LJB INC	919-760-1293	melfers@ljbinc.com
13. Robert Deans	LA Downey & Son	252-723-2325	robertdeans@LAdowney.com
14. Jimmy Johner	Carteret Marine Services	252-631-9435	Jimmy@carteretmarine.com
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			

**SECTION 16491**

**DRY TYPE TRANSFORMERS**

**PART I GENERAL**

- A. This section includes supply and installation of dry type transformers, supports and accessories.

**1.01 RELATED WORK**

- A. Section 16111 – Conduit
- B. Section 16120 - Wires and Cables

**1.02 SUBMITTALS**

- A. Submit shop drawings and product data.

**1.03 REGULATORY REQUIREMENTS**

- A. NEMA ST20 Standard for a 220 degrees C LFL components recognized insulation system.

**PART 2 PRODUCTS**

**2.01 ACCEPTABLE MANUFACTURERS**

- A. Acme
- B. Cutler Hammer
- C. General Electric

**2.02 TRANSFORMER**

- A. Single phase transformer shall be 208 VAC single phase primary and 120/240 VAC single phase 3 wire secondary of the KVA rating specified on the plans.
- B. Transformer shall be 115 degrees C temperature rise about 40 degrees C. ambient. All insulating materials shall be in accordance with NEMA and UL standards listed above.
- C. Transformer coils shall be of the continuous wound construction and shall be impregnated with non-hygroscopic, thermosetting varnish.

- D. Transformers shall be energy efficient with a load factor up to 35% of the capacity and meet or exceed NEMA TP-1 requirements. Class 220, 115 degrees C transformer shall be used when the load factor is up to 50% of their capacity. Transformers for this project are up to 50% of their capacity.
- E. All cores to be constructed of high grade, non-aging silicone steel with high magnetic Permeability, and low hysteresis and eddy current losses. Magnetic flux densities are to be kept well below the saturation point. The core laminations shall be lamped together with structural steel angles. The completed core and coil shall then be bolted to the base of the enclosure, but isolated there from by means of rubber vibration-absorbing mounts. There shall be no metal-to-metal contact between the core and coil of the enclosure. The vibration isolating system shall be designed to provide a permanent fastening of the core and coil to the enclosure. Sound isolating systems requiring the complete removal of all fastening devices will not be acceptable.
- F. Transformer shall be type 316 stainless steel encapsulated. Transformers shall be designed for rack mounting.
- G. The maximum temperature of the top of the enclosure shall not exceed 50 degrees C rise above a 40 degrees C ambient.
- H. The core of the transformer shall be visibly grounded to the enclosure by means of a flexible grounding conductor sized in accordance with applicable NEMA, IEEE, and ANSI standards.
- I. Sound levels shall be guaranteed by the manufacturer not to exceed 50 DB.
- J. The transformer shall be listed by Underwriter's Laboratory for the specified temperature rise.

## **PART 3 EXECUTION**

### **3.01 INSTALLATION**

- A. Provide for wall mounting of transformer as indicated on plans. Include securing to wall with anchors.
- B. Provide for interconnecting of secondary neutral and equipment ground back to the

main system grounding via grounding electrode conductor. Assure transformer-grounding continuity to the main electrical system ground.

**\*\*\*END OF SECTION\*\*\***

MINNESOTT BEACH FERRY JOB SITE.

CHERRY BRANCH FERRY JOB SITE.



LOCATION SITE MAP  
N.T.S.

LEGEND

	EXISTING EQUIPMENT (NO WORK)		PIN & SLEEVE PORTABLE CORD CONNECTOR
	EXISTING EQUIPMENT (TO BE REMOVED)		EXISTING RECEPTACLE TO BE REMOVED
	NEW EQUIPMENT (TO BE INSTALLED)		EXISTING CONDUIT AND WIRE (TO REMAIN)
	EXISTING EQUIPMENT (TO BE CONVERTED INTO A JUNCTION BOX)		EXISTING CONDUIT AND WIRE (TO BE REMOVED)
	EXISTING EQUIPMENT (TO BE REMOVED AND A NEW JUNCTION BOX TO BE MOUNTED IN ITS PLACE)		NEW CONDUIT AND WIRE (TO BE INSTALLED)
	EXISTING EQUIPMENT (TO BE RELOCATED)		CONDUIT AND CABLE IDENTIFICATION
	WEATHERPROOF RECEPTACLE - WITH RAIN TIGHT WHILE IN USE COVER		CONDUIT AND CABLE IDENTIFICATION PROVIDE INDIVIDUAL CONDUITS PER NUMBERS INDICATED
			ELECTRICAL EQUIPMENT SCHEDULE IDENTIFICATION
			REMOVE WIRE & ABANDON CONDUIT BELOW GRADE
			NEW UNDERGROUND CONDUIT
			LIGHTING FIXTURE IDENTIFICATION
			CIRCUIT BREAKER AND AMPERAGE
			3 PHASE SHORE POWER RECEPTACLE

GENERAL ELECTRICAL NOTES:

1. SCOPE OF THIS PROJECT SHALL CONSIST OF DEMOLITION FURNISHING & INSTALLATION OF NEW ELECTRICAL EQUIPMENT THAT WAS DAMAGED DUE TO RECENT FLOODING AT CHERRY BRANCH & MINNESOTT BEACH.
2. SCOPE OF WORK:
  - A. REPLACEMENT OF EXISTING SHORE POWER OUTLETS.
  - B. REPLACEMENT OF EXISTING PANELS AT WATERFRONT.
  - C. REPLACEMENT OF UNDERGROUND FEEDERS TO OUTLETS & PANELS
  - D. PROVIDING ELEVATED PLATFORMS FOR RELOCATED EQUIPMENT.
  - E. DEMOLITION & INSTALLATION OF NEW AREA LIGHTING.
  - F. DEMOLITION & INSTALLATION OF NEW TRAFFIC BARRIER GATES AT CHERRY BRANCH FERRY.
  - G. DEMOLITION & INSTALLATION OF NEW TRAFFIC BARRIER GATES AT MINNESOTT BEACH FERRY.
3. ALL WORK SHALL CONFORM TO THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE, OSHA, NATIONAL ELECTRIC SAFETY CODE AND ALL APPLICABLE STATE CODES.
4. ALL CONDUIT ABOVE GRADE SHALL BE RIGID GALVANIZED STEEL WITH PVC JACKET. ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 40 PVC. PROVIDE TRANSITION TO RIGID GALVANIZED PRIOR TO TURNING UP.
5. PROVIDE PULL WIRE IN SPARE CONDUITS. USE COUPLING AND PLUG TO CAP UNDERGROUND AND STUB-UPS.
6. CIRCUIT BREAKER INTERRUPTING RATINGS SHALL BE AS FOLLOWS:
 

LESS THAN 100	-	10,000 AIC
100 - 300	-	10,000 AIC
400 - 800	-	42,000 AIC
7. ALL WIRE TO BE COPPER. ALL INSULATION TO BE THHN/THWN.
8. VOLTAGE: EXISTING AVAILABLE VOLTAGE IS 120/208 VAC 3Ø 4 WIRE WYE.
9. MAINTAIN SEPARATION AND ISOLATE NEUTRAL AND EQUIPMENT GROUNDING CONDUCTORS BEYOND SERVICE ENTRANCE.
10. VERIFY AND LABEL NEW OR EXISTING CIRCUITS WITH SPECIFIC AREA DESIGNATION.
11. PATCH AND REPAIR WALL FINISHES FROM CORE DRILLING. THESE AREAS MUST BE RESTORED BACK TO ORIGINAL CONDITION. MAINTAIN EXISTING FIRE RATING. FOR FIRE RATED WALL REPAIR SEE DETAIL 4/E-9.
12. PROVIDE LOCATION OF EXISTING UTILITIES. CONTACT "ULOGO" & NCDOT. TO MARK ALL UTILITIES BEFORE DIGGING.
13. CONTRACTOR MUST FURNISH REST ROOM FACILITIES FOR ITS PERSONNEL.
14. THE NCDOT FERRY FACILITY SHALL BE KEPT IN OPERATION DURING ALL WORKING HOURS. SCHEDULE CUTOVERS FOR NON-WORK PERIODS.
15. PROVIDE SEED & MULCH TO REPAIR GRASSED AREAS AS NECESSARY. PATCH ASPHALT DISTURBED BY UNDERGROUND.
16. OBTAIN UTILITY LOCATE PRIOR TO ANY UNDERGROUND DIGGING.
17. PROVIDE TEMPORARY POWER FROM STATION #3 PANEL LC-2. PROVIDE 60/2 GO BREAKER IN EXISTING LOAD CENTER FOR STATION #1 DOCK LEVELER WHILE STATION #2 IS UNDERGOING DEMOLITION. PROVIDE 6/3 WITH GROUND CABLE. LAY CABLE ON BULKHEAD UNTIL STATION #2 IS COMPLETE.

ELECTRICAL DEMOLITION NOTES

1. REMOVE EXISTING DEVICES INDICATED & EXPOSED OR CONCEALED CONDUIT COMPLETELY.
2. REMOVE ALL WIRING COMPLETELY BACK TO PANELBOARD. IF WIRING IS IN THE MIDDLE OF A CIRCUIT PROVIDE BOX & CONVERT TO JUNCTION BOX FOR CONTINUATION OF CIRCUIT.
3. ABANDON CONCEALED CONDUIT. REMOVE WIRING.
4. PROVIDE BLANK METAL COVERS OVER EXISTING BOX OPENINGS. USE TAMPER PROOF SCREWS & PAINT TO MATCH EXISTING FINISH. ANY DAMAGED WALL MATERIAL ADJACENT TO BOXES SHALL BE PATCHED & PAINTED.

BID DRAWINGS

*Ronald E. Pledger*

4/13/2021

ELECTRICAL DESIGN BY:  
**DIBBLE & PLEDGER, P.A.**  
222 WEST MAIN STREET, WASHINGTON N.C. 27889  
PHONE: (252) 946-3320 FAX: (252) 946-9100  
E-MAIL: rpledger@dibbleandpledger.com

NCDOT FACILITIES DESIGN UNIT  
ARCHITECT & ENGINEERS  
1 SOUTH WILMINGTON STREET  
RALEIGH, NORTH CAROLINA 27601  
PHONE: 919/701-1640 FAX: 919/715-0399

LOCATION MAP / LEGEND / GENERAL NOTES / DEMOLITION NOTES

ELECTRICAL UPGRADES  
to NCDOT Cherry Branch  
Ferry Shore Power  
2300 FERRY ROAD  
HAVELOCK, NORTH CAROLINA 28532

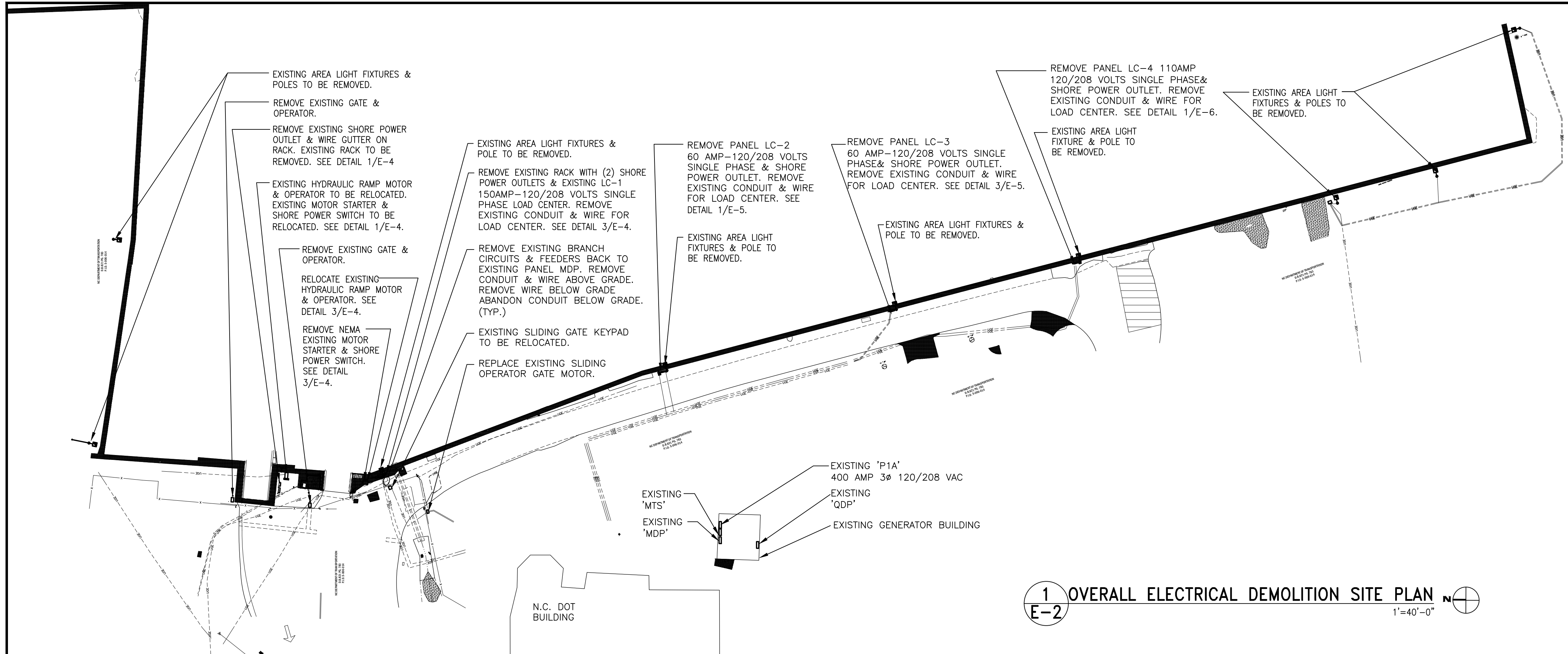
STATE CONSTRUCTION ID# 19-20032-02A	
ASSET NUMBER: CO.# SITE# BLDG.#	
XX - XX - XX	
REVISIONS	NO. DATE
	5-10-2021
DATE ISSUED: 4/16/21	
DRAWN BY: WAW	
CHECKED BY: REP	
SHEET NO.	

E-1

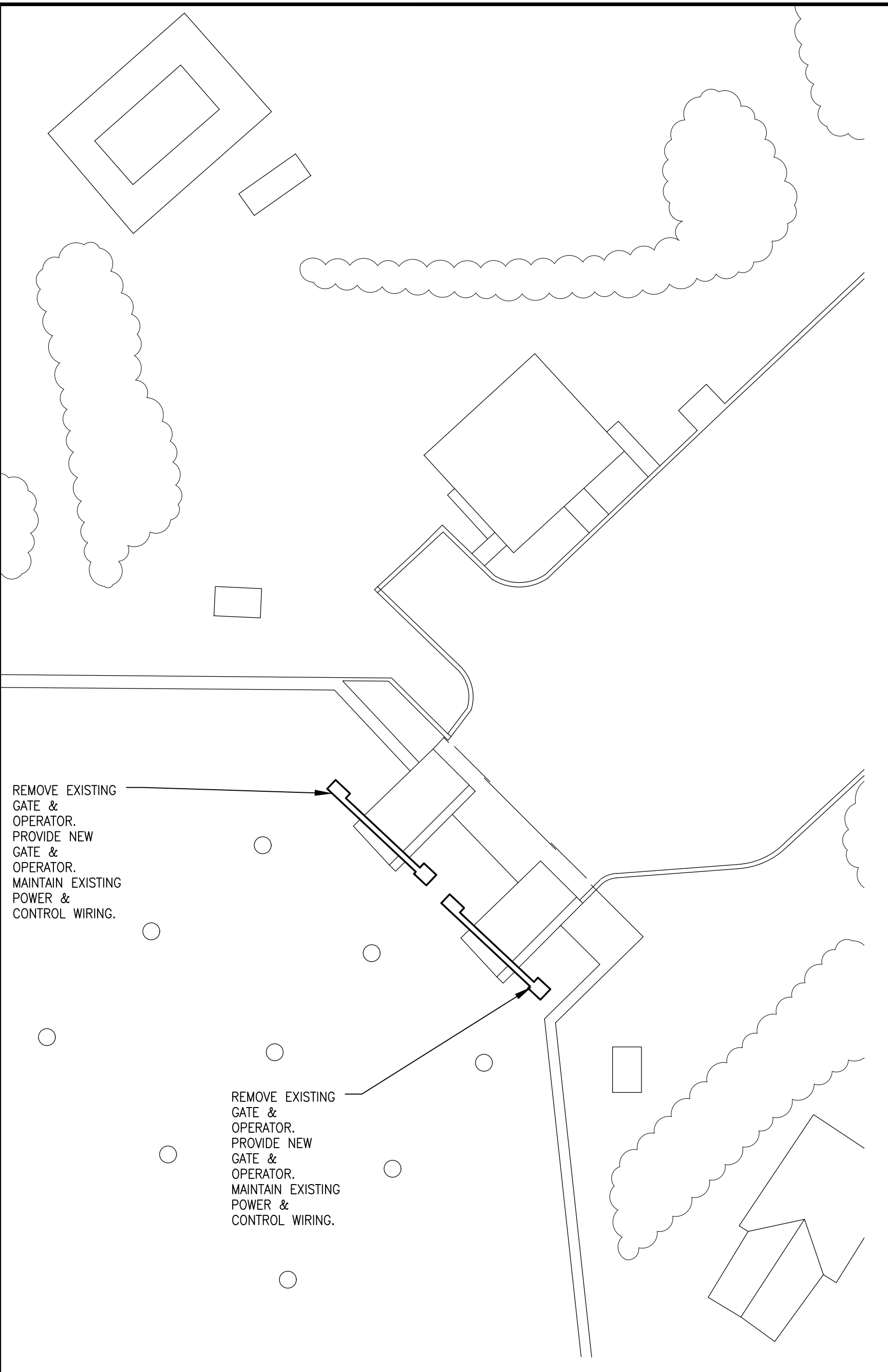


ELECTRICAL DEMOLITION & INSTALLATION SITE PLANS

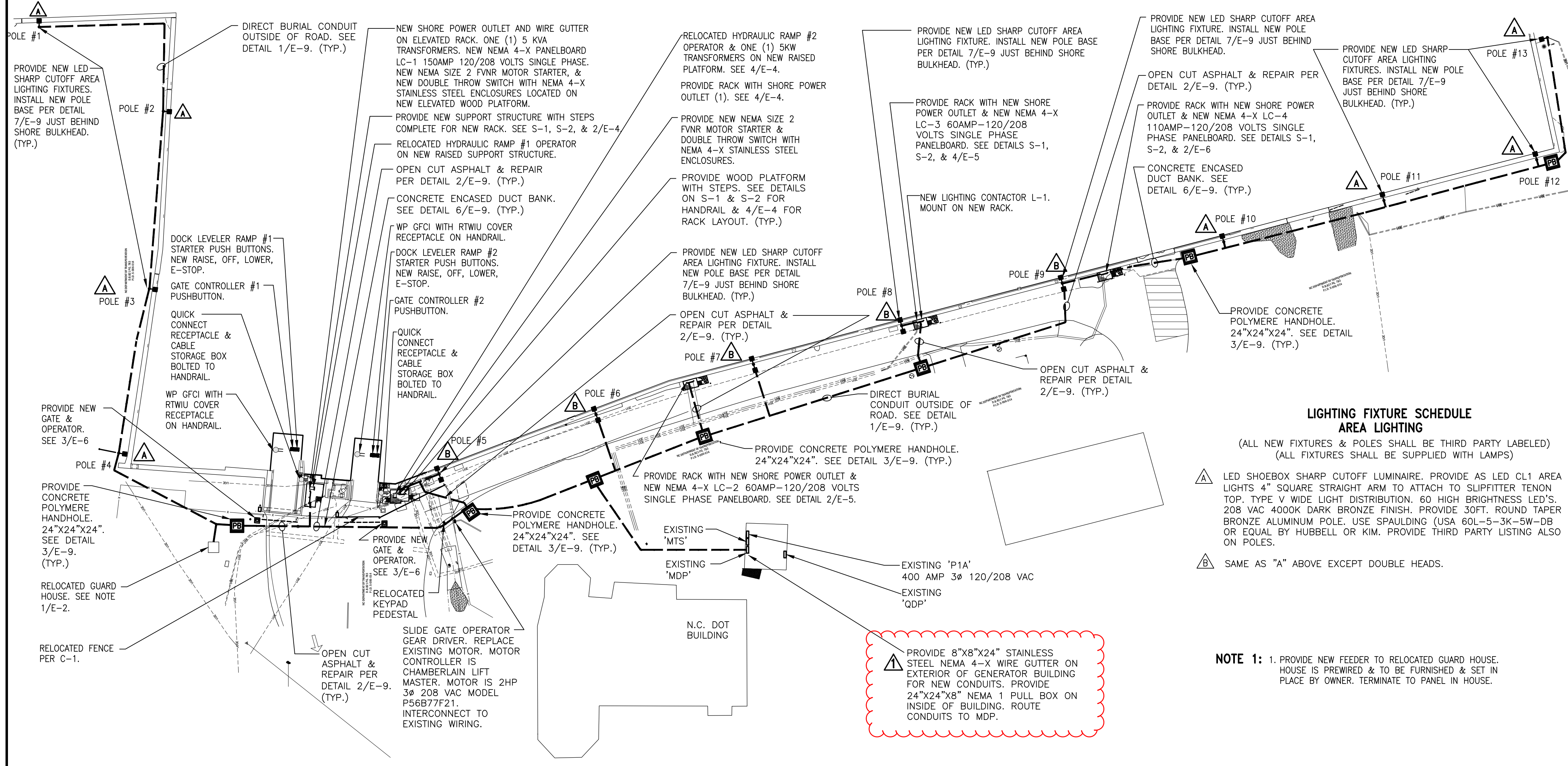
REVISIONS	NO.	DATE
	5-10-2021	



1 OVERALL ELECTRICAL DEMOLITION SITE PLAN  
E-2 1"=40'-0"



3 MINNESOTA BEACH ELECTRICAL SITE PLAN  
E-2 TRAFFIC BARRIER GATE REPLACEMENT 1"=30'-0"



2 OVERALL ELECTRICAL INSTALLATION SITE PLAN  
E-2 1"=40'-0"

LIGHTING FIXTURE SCHEDULE  
AREA LIGHTING

(ALL NEW FIXTURES & POLES SHALL BE THIRD PARTY LABELED)  
(ALL FIXTURES SHALL BE SUPPLIED WITH LAMPS)

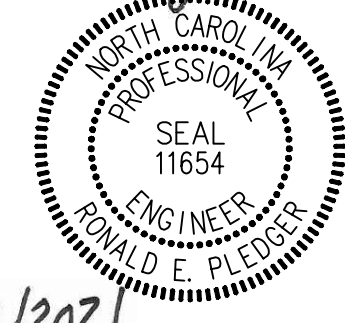
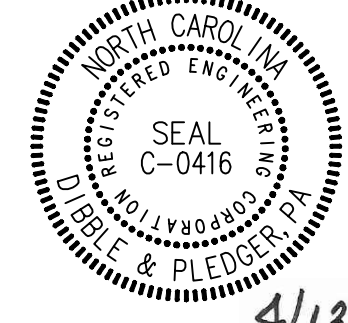
- A LED SHOEBOX SHARP CUTOFF LUMINAIRE. PROVIDE AS LED CL1 AREA LIGHTS 4" SQUARE STRAIGHT ARM TO ATTACH TO SLIPFITTER TENON TOP. TYPE V WIDE LIGHT DISTRIBUTION, 60 HIGH BRIGHTNESS LED'S, 208 VAC 4000K DARK BRONZE FINISH. PROVIDE 30FT. ROUND TAPER BRONZE ALUMINUM POLE. USE SPAULDING (USA 60L-5-3K-5W-DB OR EQUAL BY HUBBELL OR KIM. PROVIDE THIRD PARTY LISTING ALSO ON POLES.
- B SAME AS "A" ABOVE EXCEPT DOUBLE HEADS.

NOTE 1: 1. PROVIDE NEW FEEDER TO RELOCATED GUARD HOUSE. HOUSE IS PREWIRED & TO BE FURNISHED & SET IN PLACE BY OWNER. TERMINATE TO PANEL IN HOUSE.

ATTACHMENT 'D'

BID DRAWINGS

Ronald E. Pledger



4/13/2021

#1503 LD6235

ELECTRICAL DESIGN BY:  
DIBBLE & PLEDGER, P.A.  
222 WEST MAIN STREET, WASHINGTON N.C. 27889  
PHONE: (252) 946-3320 FAX: (252) 946-9160  
E-MAIL: rpledger@dibbleandpledger.com

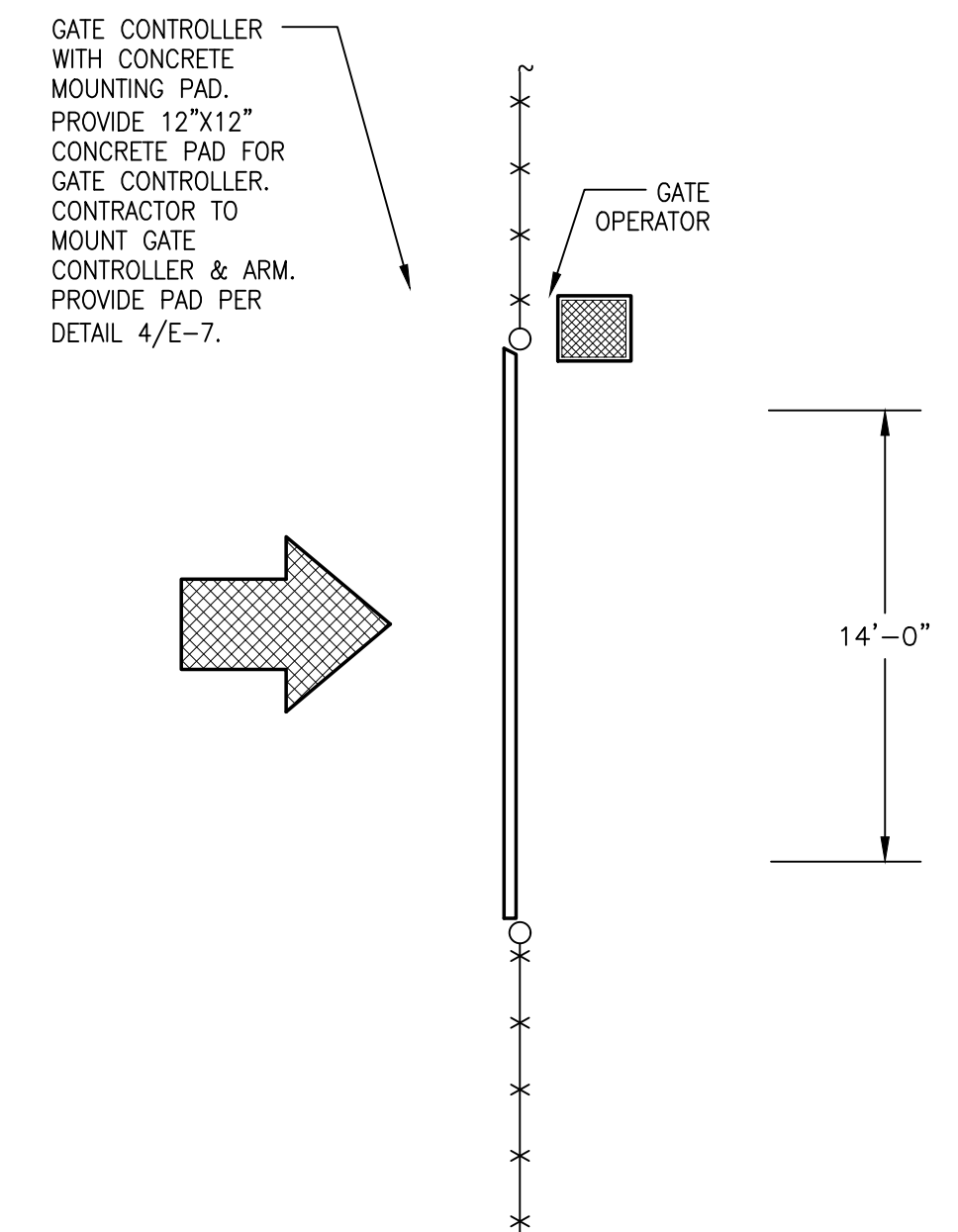


CONDUIT & CABLE SCHEDULE  
ALL CONDUCTORS TO BE COPPER

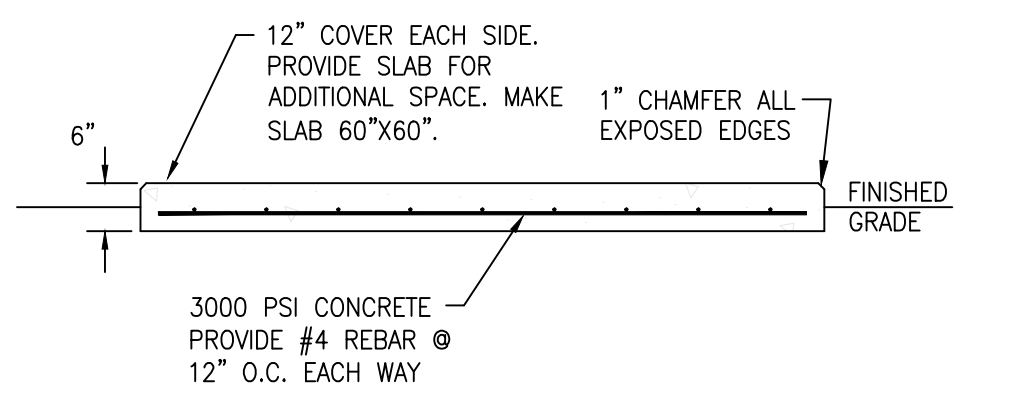
1	3 4/0 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 4/0 AWG Cu THHN/THWN NEUTRAL CONDUCTOR 1 #4 AWG Cu THHN/THWN GROUNDING CONDUCTOR 3" CONDUIT
2	2 3/0 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 3/0 AWG Cu THHN/THWN NEUTRAL CONDUCTOR 1 #4 AWG Cu THHN/THWN GROUNDING CONDUCTOR 2-1/2" CONDUIT
3	2 #4 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 #4 AWG Cu THHN/THWN NEUTRAL CONDUCTOR 1 #8 AWG Cu THHN/THWN GROUNDING CONDUCTOR 1-1/2" CONDUIT
4	1 #4 AWG Cu THHN/THWN GROUNDING ELECTRODE CONDUCTOR 3/4" CONDUIT
5	1 #8 AWG Cu THHN/THWN GROUNDING ELECTRODE CONDUCTOR 3/4" CONDUIT
6	1 #12 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 #12 AWG Cu THHN/THWN NEUTRAL CONDUCTOR 1 #12 AWG Cu THHN/THWN GROUNDING CONDUCTOR 3/4" CONDUIT
7	2 #10 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 #10 AWG Cu THHN/THWN GROUNDING CONDUCTOR 3/4" CONDUIT
8	6 #14 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 #14 AWG Cu THHN/THWN GROUNDING CONDUCTOR 3/4" CONDUIT
9	2 #8 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 #8 AWG Cu THHN/THWN NEUTRAL CONDUCTOR 1 #10 AWG Cu THHN/THWN GROUNDING CONDUCTOR 1" CONDUIT
10	10 #14 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 #14 AWG Cu THHN/THWN GROUNDING CONDUCTOR 3/4" CONDUIT. PROVIDE FLEXIBLE CABLE FOR ALL CONTROLS DOWN DOCK RAMP.
11	1 #10 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 #10 AWG Cu THHN/THWN NEUTRAL CONDUCTOR 1 #10 AWG Cu THHN/THWN GROUNDING CONDUCTOR 3/4" CONDUIT
12	2 #1 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 #1 AWG Cu THHN/THWN NEUTRAL CONDUCTOR 1 #6 AWG Cu THHN/THWN GROUNDING CONDUCTOR 2" CONDUIT
13	2 #8 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 #10 AWG Cu THHN/THWN GROUNDING CONDUCTOR 1" CONDUIT
14	2 #8 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 #8 AWG Cu THHN/THWN NEUTRAL CONDUCTOR 1 #8 AWG Cu THHN/THWN GROUNDING CONDUCTOR 1" CONDUIT
15	2 #6 AWG Cu THHN/THWN UNGROUNDED CONDUCTORS 1 #6 AWG Cu THHN/THWN NEUTRAL CONDUCTOR 1 #10 AWG Cu THHN/THWN GROUNDING CONDUCTOR 1-1/2" CONDUIT

PROVIDE FLEXIBLE WEATHERPROOF CONTROL CABLE SECURED TO FERRY RAMP FOR TRAFFIC ARM & DOCK LEVELER OPERATION.

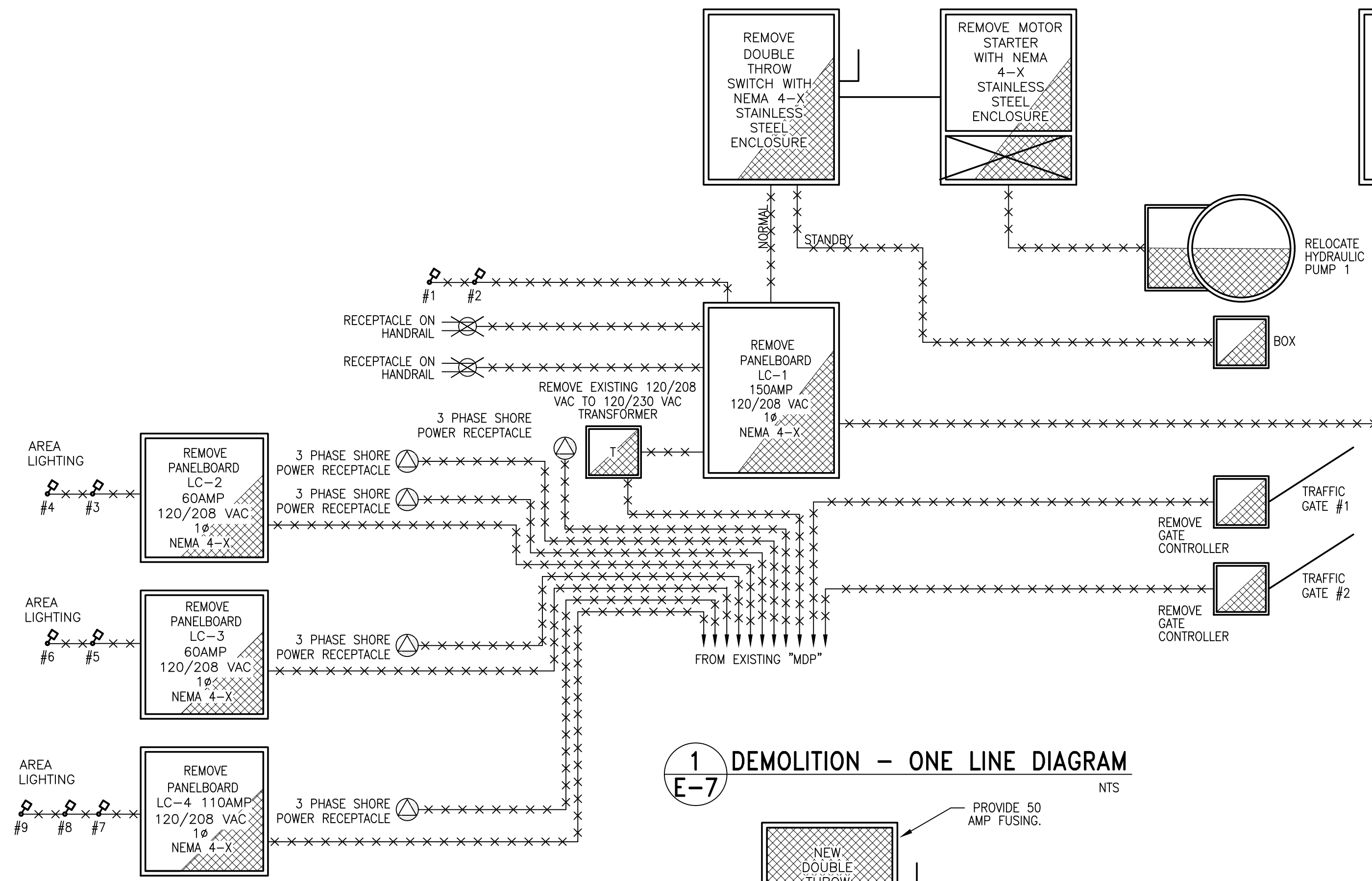
3 LIFT GATE ENTRY LANE  
NTS



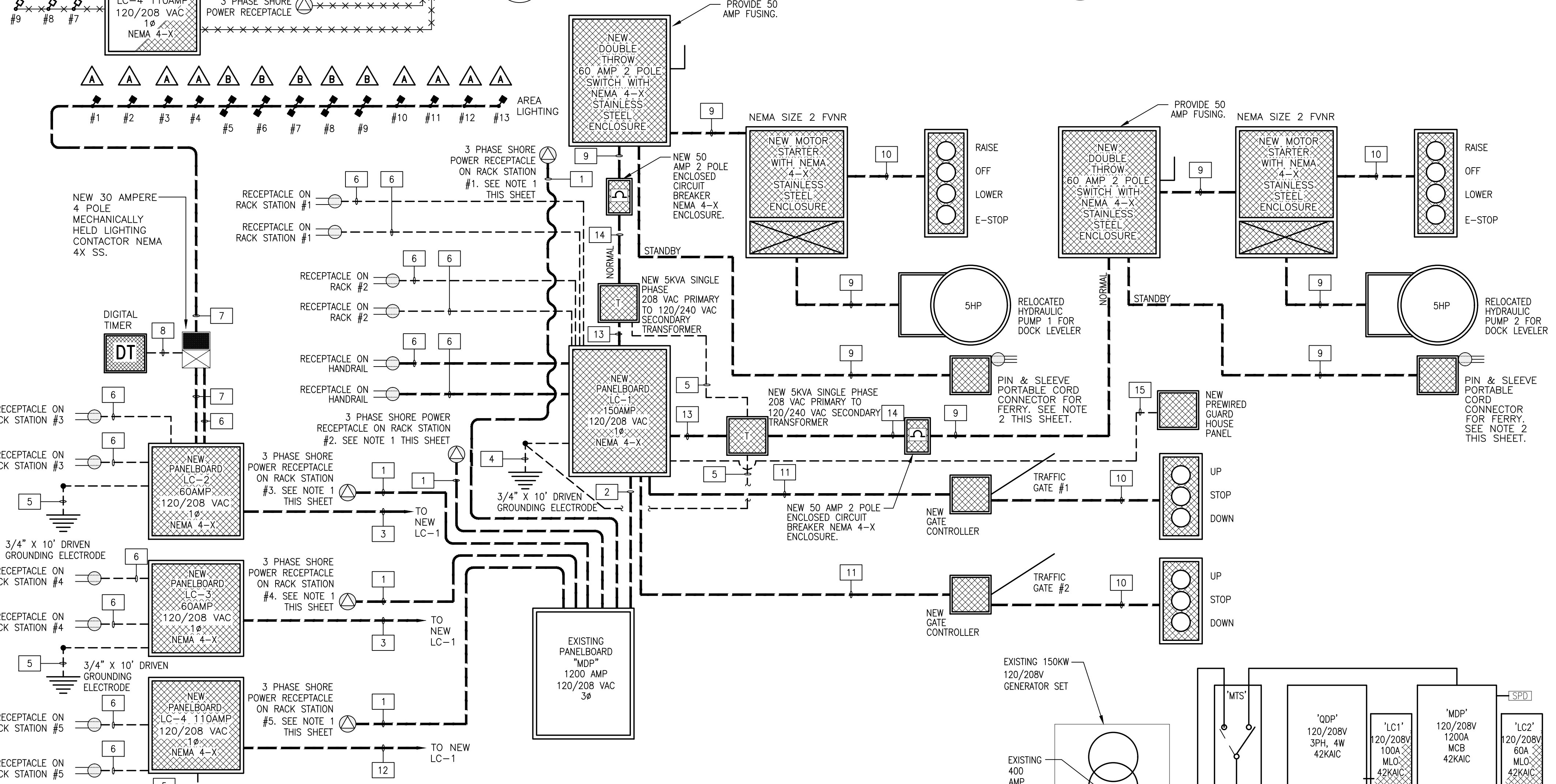
4 PAD DETAIL (GATE CONTROLLER ARM)  
NTS



1 DEMOLITION - ONE LINE DIAGRAM  
NTS



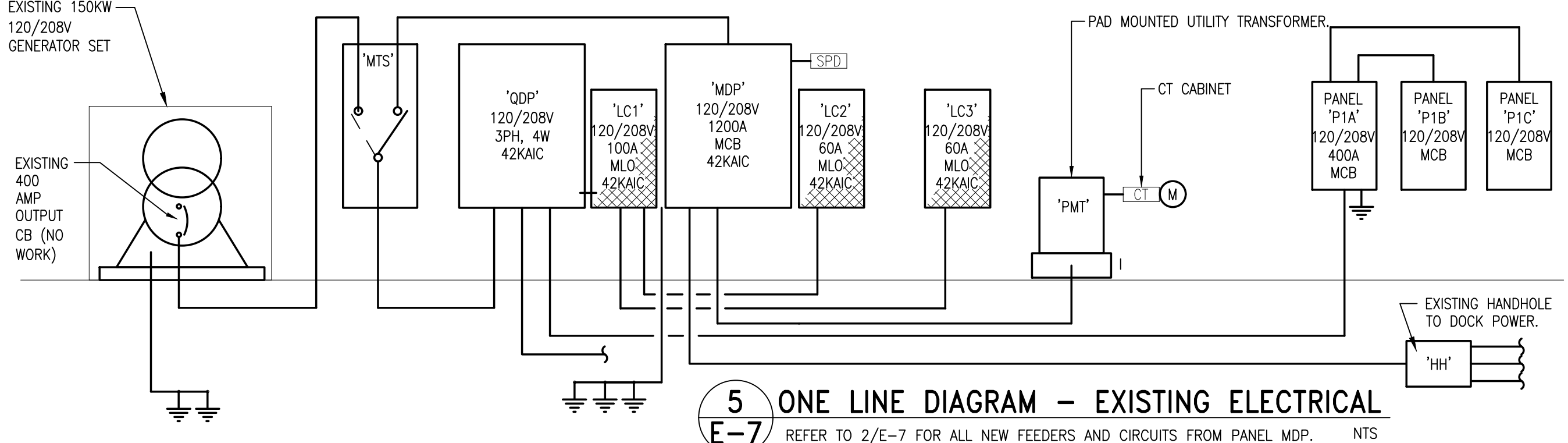
2 INSTALLATION - ONE LINE DIAGRAM  
NTS



NOTES:

- PROVIDE GATED WATERPROOF DEAD FRONT INTERLOCKED RECEPTACLE WITH CIRCUIT BREAKER FOR SHORE POWER. AS 200 AMPERE 3 PHASE 120/208 VAC 4 WIRE. PROVIDE AS CAST ALUMINUM COPPER FREE HOUSING WITH EPOXY POWDER COAT FINISH. PROVIDE NEMA 4-X RATED INTERLOCKS. FURNISH & INSTALL RUSSELSTOLL DRS25162000/268E. PROVIDE WITH (2) RUSSELSTOLL DS2516MPO00 MATCHING PLUGS OR EQUALS BY CROUSE HINDS OR APPLTON.
- PIN & SLEEVE PORTABLE CORD CONNECTOR FOR FERRY.
  - FERRY CABLE AND PLUG - PROVIDE ONE OUTPUT CABLE 50 FT. EACH IN LENGTH (1 PHASE, 3 CONDUCTOR #8 AWG COPPER 2 UNGROUNDED, 1 #8 AWG COPPER NEUTRAL AND 1 #8 AWG GROUNDING CONDUCTOR AND; ONE END OF THE CABLE TO HAVE A PLUG TO MATCH THE APPROPRIATE FERRY QUICK CONNECT RECEPTACLE; THE OTHER TO BE WIRED DIRECTLY INTO MANUAL TRANSFER SWITCH CONDUCTORS. CABLES SHALL BE COILED IN A STAINLESS STEEL 24"x24"x24" BOX WITH 3 POINT LATCH MOUNTED ON THE FERRY ACCESS RAMP HANDRAIL WITH SS U-BOLTS. PROVIDE LARGE PHENOLIC LABEL ON THE BOX OF COILED CABLE LISTED PER SPECIFICATION SECTIONS 16195 2.01 & 3.03A.
  - THE MATING PLUG (TWO PER EACH FERRY) SHALL BE 60 AMPERES MATCHED TO THE FIXED RECEPTABLES AND SHALL HAVE RECEPTACLE INTERIOR HAVING REVERSED CONTACTS (FEMALE) AND RATED AS INDICATED. THE RECEPTABLES (PROVIDE TWO PER EACH FERRY) SHALL BE FEMALE DEAD FRONT RUSSELSTOLL DF6104FR00 WITH MATING PLUG DSE10AMP000 RATED 60 AMPERES OR EQUALS BY CROUSE HINDS OR APPLTON. IT SHALL HAVE A CABLE GRIP ASSEMBLY FOR ATTACHMENT TO OUTPUT CABLE. ONE FIXED RECEPTACLE WILL BE ADDED TO THE FERRY ACCESS RAMP HANDRAIL. THE OTHER FIXED RECEPTACLE WILL BE FOR THE BOAT.

5 ONE LINE DIAGRAM - EXISTING ELECTRICAL  
NTS



REFER TO 2/E-7 FOR ALL NEW FEEDERS AND CIRCUITS FROM PANEL MDP. FOR COMPLETE DEMOLITION OF ALL PANELS, FEEDERS, AND CIRCUITS REFER TO 1/E-7.