SPECIAL ELECTRICAL KEYED NOTES:

1. EXISTING 30" X 30" PLYWOOD BACKBOARD MOUNT MULTIPLEX CONTROL RELAY, TERMINAL BLOCKS, AND CONTACTOR FOR MONORAIL CONTROL CONDUCTORS. COMPLETELY REMOVE EXISTING THE 30" X 30" PLYWOOD BACKBOARD, MULTIPLEX CONTROL RELAY AND TERMINAL BLOCKS FROM BUILDINGS, AND THE POWER STRIP FROM THE MONO-RAIL. IT INCLUDES REMOVING ALL THE WIRING, CABLES, JUNCTION BOXES, CONDUITS, ENCLOSURES, AND SO ON.

2. EXISTING 277/480V, 3-PHASE, 4-WIRE, 100A POWER PANELBOARD WITH 90A CIRCUIT BREAKER AND 30 CIRCUIT SPACES INSTALLED AT B8849, B8850 AND B8851. COMPLETELY REMOVE EXISTING 277/480V, 3-PHASE, 4-WIRE, 100A POWER PANELBOARDS WITH 30 CIRCUIT SPACES. IT INCLUDES REMOVING ALL THE WIRING, CABLES, JUNCTION BOXES, CONDUITS, ENCLOSURES, FEEDERS FROM EXISTING PAD-MOUNTED TRANSFORMERS TO THE EXISTING POWER PANELBOARDS, AND SO ON.

3. EXISTING 120/240V, SINGLE-PHASE, 3-WIRE, 100A LIGHTING PANELBOARD WITH 100A CIRCUIT BREAKER AND 24 CIRCUIT SPACES INSTALLED AT B8849 AND B8840. COMPLETELY REMOVE EXISTING 120/240V, SINGLE-PHASE, 3-WIRE, 100A LIGHTING PANELBOARDS WITH 24 CIRCUIT SPACES. IT INCLUDES REMOVING ALL THE WIRING, CABLES, JUNCTION BOXES, CONDUITS, ENCLOSURES, AND SO ON FROM THE BUILDINGS.

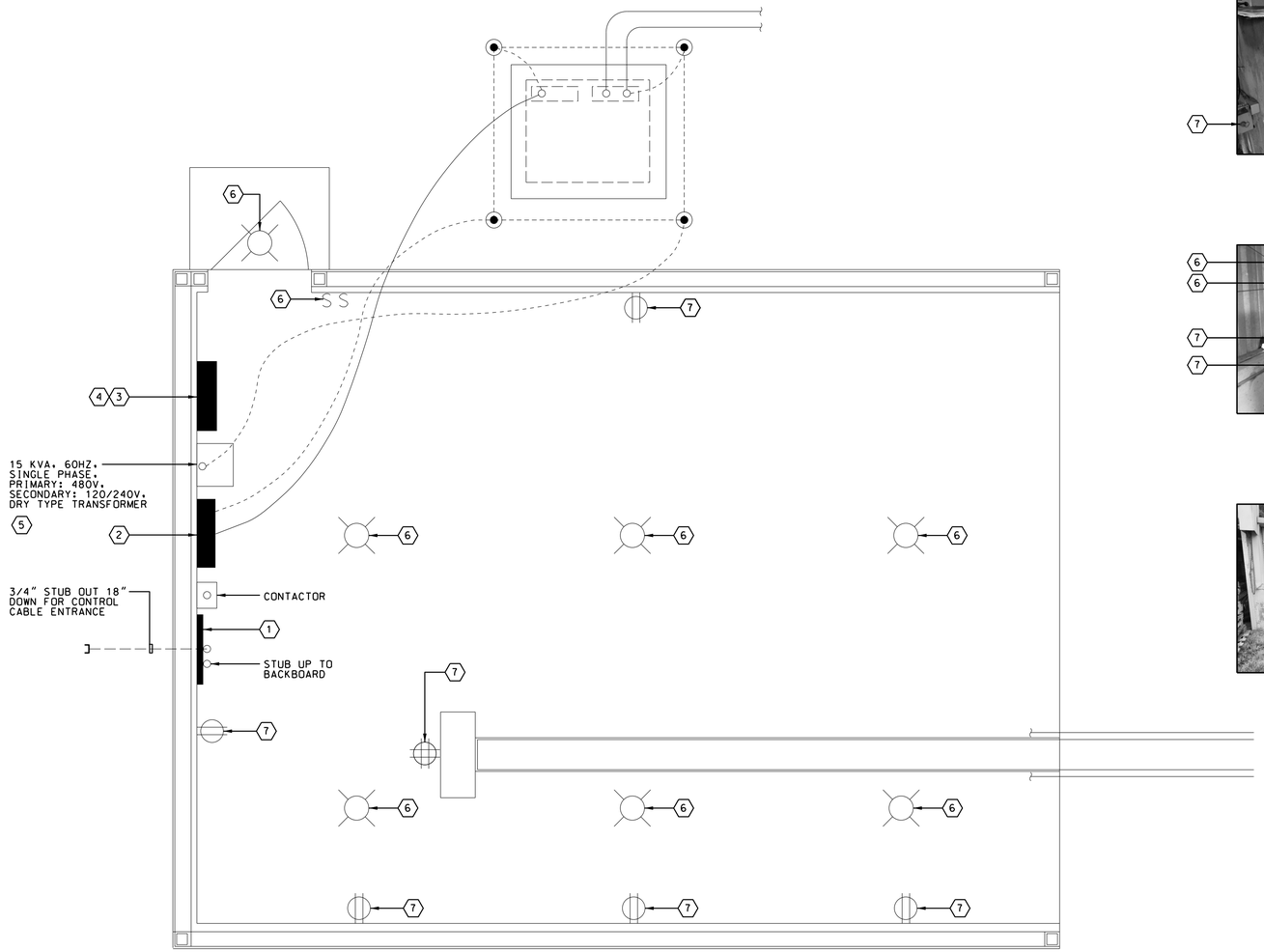
4. EXISTING 120/240V, SINGLE-PHASE, 3-WIRE, 100A LIGHTING PANELBOARD WITH 60A CIRCUIT BREAKER AND 24 CIRCUIT SPACES INSTALLED AT B8851. COMPLETELY REMOVE EXISTING 120/240V, SINGLE-PHASE, 3-WIRE, 100A LIGHTING PANELBOARDS WITH 24 CIRCUIT SPACES. IT INCLUDES REMOVING ALL THE WIRING, CABLES, JUNCTION BOXES, CONDUITS, ENCLOSURES, AND SO ON FROM BUILDING 8851.

5. COMPLETELY REMOVE EXISTING 15 KVA, 60HZ, SINGLE-PHASE, 480V PRIMARY TO 120/240V SECONDARY, DRY TYPE TRANSFORMERS FROM B8849, B8850, AND B8851. IT INCLUDES REMOVING ALL THE WIRING, CABLES, JUNCTION BOXES, CONDUITS, ENCLOSURES, AND SO ON.

6. COMPLETELY REMOVE ALL EXISTING INTERNAL AND EXTERNAL LIGHT FIXTURES FROM B8849, B8850, AND B8851. IT INCLUDES REMOVING ALL THE LIGHT FIXTURES, LIGHT SWITCHES, WIRING, CABLES, JUNCTION BOXES, CONDUITS, ENCLOSURES, AND SO ON.

7. COMPLETELY REMOVE ALL EXISTING RECEPTACLES FROM B8849, B8850, AND B8851. IT INCLUDES REMOVING ALL THE RECEPTACLES, WIRING, CABLES, JUNCTION BOXES, CONDUITS, ENCLOSURES, AND SO ON.

8. COMPLETELY REMOVE ALL THE ABANDONED MECHANICAL AND ELECTRICAL EQUIPMENT AND DEVICES FROM THE BUILDINGS. IT INCLUDES REMOVING EQUIPMENT AND DEVICES, WIRING, CABLES, JUNCTION BOXES, CONDUITS, ENCLOSURES, AND SO ON.

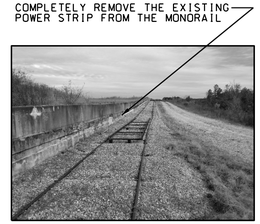


1 / E1 EXISTING LIGHTING AND POWER PLAN (TYPICAL FOR B8850, B8851, AND B8849) SCALE: 1/2" = 1'-0"

1 2 3 4 5 6 7 8

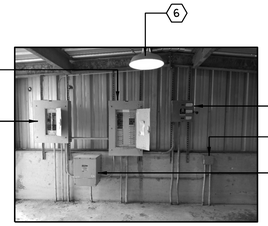
PHOTOGRAPH-A

PHOTOGRAPH-B

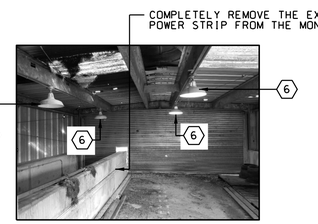


PHOTOGRAPH-C

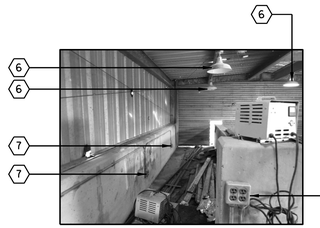
PHOTOGRAPH-D



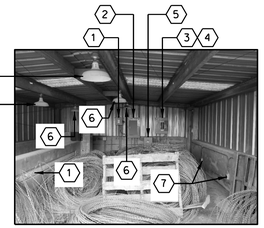
PHOTOGRAPH-E



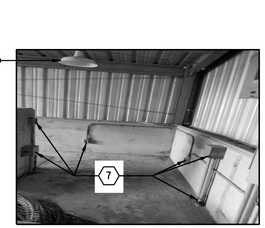
PHOTOGRAPH-F



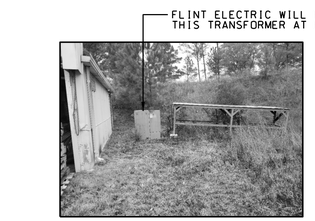
PHOTOGRAPH-G



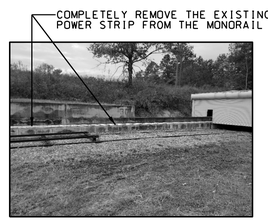
PHOTOGRAPH-H



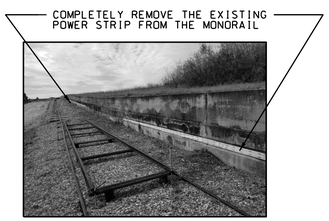
PHOTOGRAPH-I



PHOTOGRAPH-J



PHOTOGRAPH-K



PHOTOGRAPH-L

35% DESIGN
BID DOCUMENTS

12" 0' 1' 2' 3' 4' 5'
SCALE: 1/2 INCH = 1 FOOT

EXISTING LIGHTING AND POWER PLAN

BY	DATE	REVISIONS	SYMBOL

DIRECTORATE OF PUBLIC WORKS
FORT BENNING, GEORGIA

REPAIR MOVER TARGET SHEDS,
CARMOUCHE RANGE
FORT MOORE, GEORGIA

DRAWN BY	DRAWING NUMBER	SCALE
K. CHAN	44443-E1	NOTED
APPROVED J.C. VANTLAND	L&E NO:	DATE 02 FEB 24

PANEL SCHEDULE

EXISTING PANEL
PMTC AT B8849

POWER PANEL

PANEL AIC RATING: XX,000 AMPS

SURFACE MOUNTED VOLTS 277/480 PHASE 3 WIRES 4 MAINS: 100A WITH 90A CB

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	CIRC NO.	TRIP AMPS	NO. POLES
1				13400			SPACE	2		
3	70	3	MONORAIL VIA		13400		SPACE	4		
5			CONTACTOR			13400	SPACE	6		
7	35	2	15 KVA DRY TYPE	7500				8		
9			TRANSFORMER		7500		SPARE	10	50	3
11			SPACE			–		12		
13			SPACE				SPACE	14		
15			SPACE				SPACE	16		
17			SPACE				SPACE	18		
19			SPACE				SPACE	20		
21			SPACE				SPACE	22		
23			SPACE				SPACE	24		
25			SPACE				SPACE	26		
27			SPACE				SPACE	28		
29			SPACE				SPACE	30		
31										
33										
35										
37										
39										
41										
			TOTAL	20900	20900	13400				

TOTAL CONNECTED LOAD 100.00% 55.200 KVA
ESTIMATED DEMAND LOAD 85.77% 47.345 KVA

DEMAND LINE AMPS = 57 A

PANEL SCHEDULE

EXISTING PANEL
MTC AT B8849

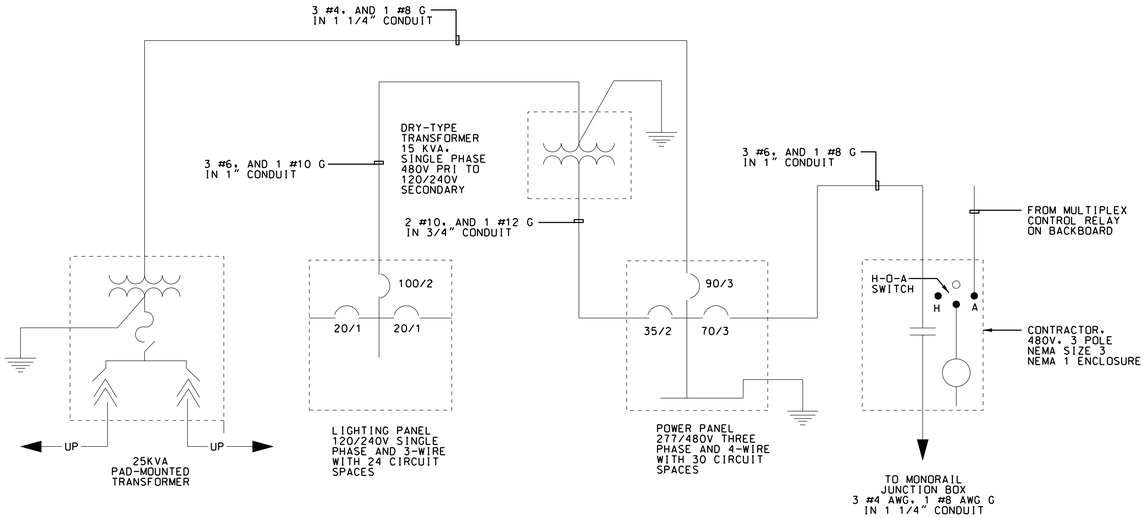
PANEL AIC RATING: 10.000 AMPS

SURFACE MOUNTED VOLTS 120/240 PHASE 1 WIRES 3 MAINS: 100A WITH 100A CB

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	LOAD SERVED	CIRC NO.	TRIP AMPS	NO. POLES
1	20	2	ASSUME MULTIPLEX	50		ASSUME TARGETS	2	40	2
3			UNIT	50	3600		4		
5	20	1	ASSUME LIGHTING	1000	3600				
7	20	1	ASSUME RECEPTACLE	1000	900	????	6	20	1
9	20	1	????	1500	900	????	8	20	1
11	20	1	????	1500		SPACE	10	20	1
13			SPACE			SPACE	12		
15			SPACE			SPACE	14		
17			SPACE			SPACE	16		
19			SPACE			SPACE	18		
21			SPACE			SPACE	20		
23			SPACE			SPACE	22		
						SPACE	24		
			TOTAL	5100	9900				

TOTAL CONNECTED LOAD 100% 15.00 KVA
ESTIMATED DEMAND LOAD 85% 12.75 KVA

DEMAND LINE AMPS = 53 A



EXISTING RISER DIAGRAM AT B8849 IN CARMOUCHE RANGE

EXISTING RISER DIAGRAM & PANEL SCHEDULES

REVISIONS: SYMBOL | DATE | BY

DIRECTORATE
OF PUBLIC WORKS
FORT BENNING, GEORGIA

REPAIR MOVER TARGET SHEDS,
CARMOUCHE RANGE
FORT MOORE, GEORGIA

DRAWN BY	DRAWING NUMBER	SCALE
K. CHAN	44443-E2	NOTED
APPROVED J.C. VANTLAND	L&E NO:	DATE 02 FEB 24

PANEL SCHEDULE

EXISTING PANEL
PMTC AT B8550

POWER PANEL

PANEL AIC RATING: XX,000 AMPS

SURFACE MOUNTED VOLTS 277/480 PHASE 3 WIRES 4 MAINS: 100A WITH 90A CB

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	CIRC NO.	TRIP AMPS	NO. POLES
1				13400			SPACE	2		
3	70	3	MONORAIL VIA		13400		SPACE	4		
5			CONTACTOR			13400	SPACE	6		
7			SPACE	–				8		
9	35	2	15 KVA DRY TYPE		7500		SPARE	10	50	3
11			TRANSFORMER			7500		12		
13			SPACE				SPACE	14		
15			SPACE				SPACE	16		
17			SPACE				SPACE	18		
19			SPACE				SPACE	20		
21			SPACE				SPACE	22		
23			SPACE				SPACE	24		
25			SPACE				SPACE	26		
27			SPACE				SPACE	28		
29			SPACE				SPACE	30		
31										
33										
35										
37										
39										
41										
			TOTAL	13400	20900	20900				

TOTAL CONNECTED LOAD 100.00% 55.200 KVA
ESTIMATED DEMAND LOAD 85.77% 47.345 KVA

DEMAND LINE AMPS = 57 A

PANEL SCHEDULE

EXISTING PANEL
MTC AT B8850

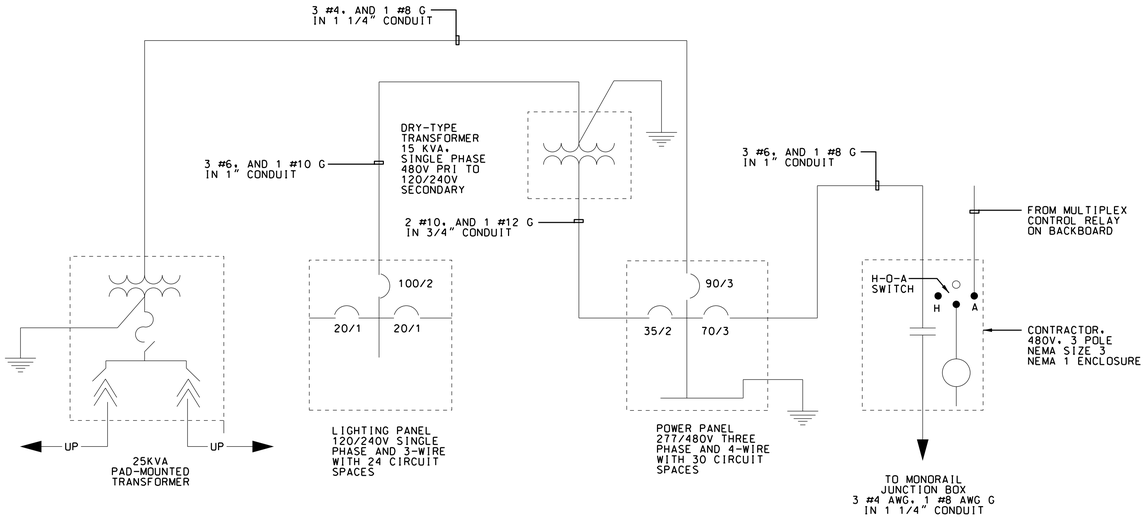
PANEL AIC RATING: 10.000 AMPS

SURFACE MOUNTED VOLTS 120/240 PHASE 1 WIRES 3 MAINS: 100A WITH 100A CB

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	LOAD SERVED	CIRC NO.	TRIP AMPS	NO. POLES
1	20	2	ASSUME MULTIPLEX	50		SPACE	2		
3			UNIT	50		SPACE	4		
5			SPACE		900	305	6	20	1
7			SPACE		1000	306 & 307	8	20	1
9	20	1	ASSUME LIGHTING	1000	1840	INF	10	20	2
11	20	1	ASSUME RECEPTACLE	900	1840	INF	12		
13			SPACE		720	OTHER LOAD	14	20	1
15			SPACE		720	OTHER LOAD	16	20	1
17			SPACE			SPACE	18		
19			SPACE			SPACE	20		
21			SPACE			SPACE	22		
23			SPACE			SPACE	24		
			TOTAL	2000	7020				

TOTAL CONNECTED LOAD 100% 9.02 KVA
ESTIMATED DEMAND LOAD 85% 7.22 KVA

DEMAND LINE AMPS = 30 A



EXISTING RISER DIAGRAM AT B8850 IN CARMOUCHE RANGE

EXISTING RISER DIAGRAM & PANEL SCHEDULES

REVISIONS | BY | DATE | SYMBOL

DIRECTORATE
OF PUBLIC WORKS
FORT BENNING, GEORGIA

REPAIR MOVER TARGET SHEDS,
CARMOUCHE RANGE
FORT MOORE, GEORGIA

DRAWN BY	DRAWING NUMBER	SCALE
K. CHAN	44443-E3	NOTED
APPROVED J.C. VANTLAND	L&E NO:	DATE 02 FEB 24

PANEL SCHEDULE

EXISTING PANEL
PMTC AT B8551

POWER PANEL

PANEL AIC RATING: XX,000 AMPS

SURFACE MOUNTED VOLTS 277/480 PHASE 3 WIRES 4 MAINS: 100A WITH 90A CB

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	PHASE LOAD VA C	LOAD SERVED	CIRC NO.	TRIP AMPS	NO. POLES
1				13400			SPACE	2		
3	70	3	MONORAIL VIA		13400		SPACE	4		
5			CONTACTOR			13400	SPACE	6		
7			SPACE	-				8		
9	35	2	15 KVA DRY TYPE		7500		SPARE	10	50	3
11			TRANSFORMER			7500		12		
13			SPACE				SPACE	14		
15			SPACE				SPACE	16		
17			SPACE				SPACE	18		
19			SPACE				SPACE	20		
21			SPACE				SPACE	22		
23			SPACE				SPACE	24		
25			SPACE				SPACE	26		
27			SPACE				SPACE	28		
29			SPACE				SPACE	30		
31										
33										
35										
37										
39										
41										
			TOTAL	13400	20900	20900				

TOTAL CONNECTED LOAD 100.00% 55.200 KVA
ESTIMATED DEMAND LOAD 85.77% 47.345 KVA

DEMAND LINE AMPS = 57 A

PANEL SCHEDULE

EXISTING PANEL
MTC AT B8551

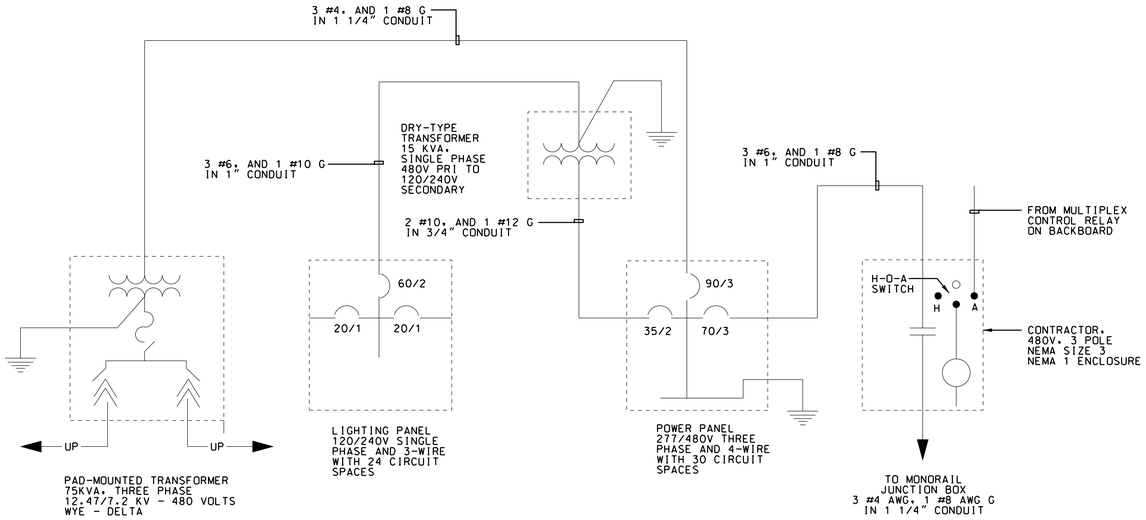
PANEL AIC RATING: 10.000 AMPS

SURFACE MOUNTED VOLTS 120/240 PHASE 1 WIRES 3 MAINS: 100A WITH 60A CB

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	LOAD SERVED	CIRC NO.	TRIP AMPS	NO. POLES
1	20	2	ASSUME MULTIPLEX	50		ASSUME TARGETS	2	20	2
3			UNIT		1840		4		
5	20	1	ASSUME LIGHTING	50					
7	20	1	ASSUME RECEPTACLE	1000	1840				
9	20	1	????	900	900	????	6	20	1
11	30	1	????	1000	1000	????	8	20	1
13			SPACE	1000	1000	????	10	20	1
15			SPACE	900		SPACE	12		
17			SPACE			SPACE	14		
19			SPACE			SPACE	16		
21			SPACE			SPACE	18		
23			SPACE			SPACE	20		
						SPACE	22		
						SPACE	24		
			TOTAL	3900	6580				

TOTAL CONNECTED LOAD 100% 10.48 KVA
ESTIMATED DEMAND LOAD 85% 8.91 KVA

DEMAND LINE AMPS = 37 A



EXISTING RISER DIAGRAM AT B8851 IN CARMOUCHE RANGE

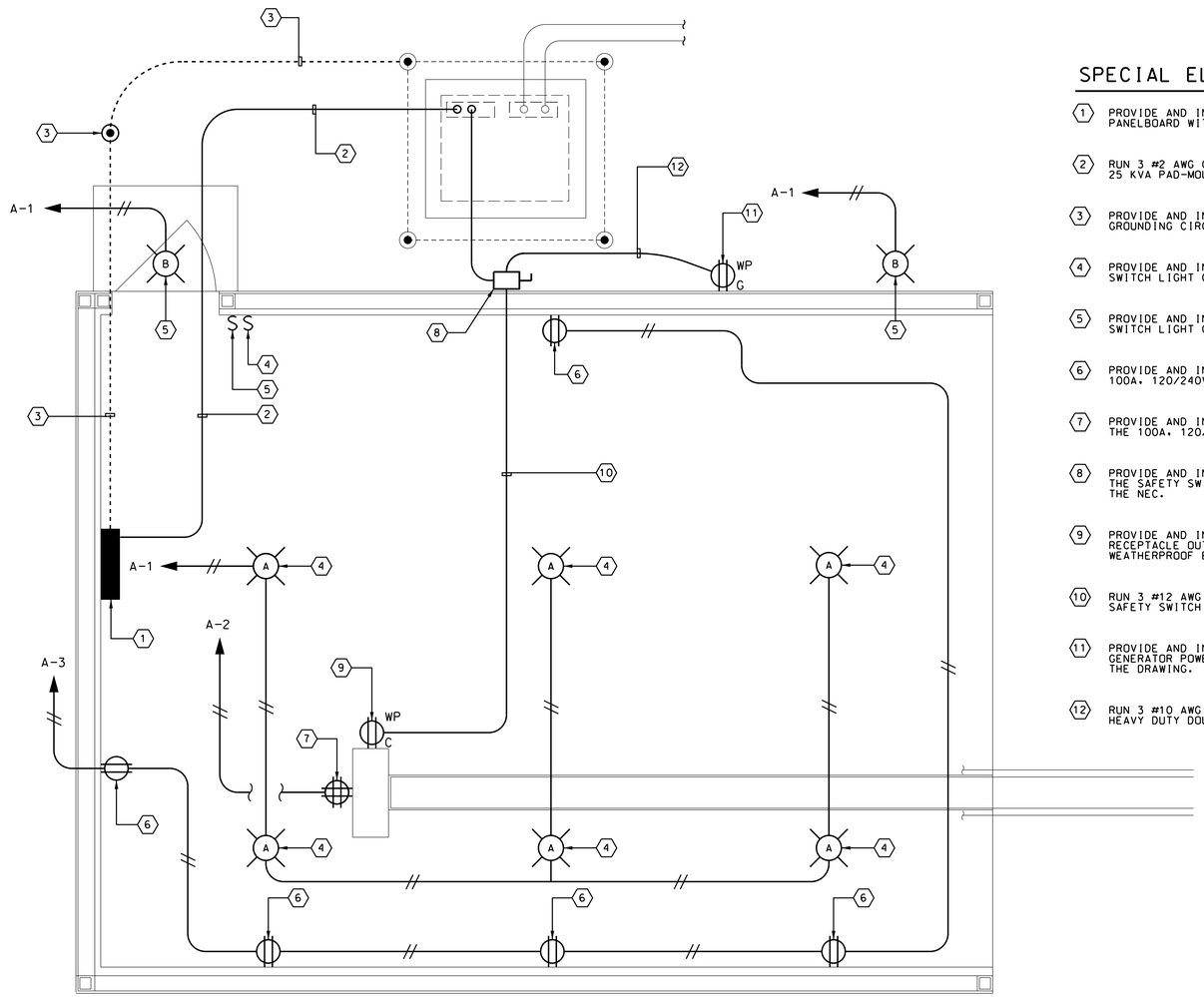
EXISTING RISER DIAGRAM & PANEL SCHEDULES

DIRECTORATE
OF PUBLIC WORKS
FORT BENNING, GEORGIA

REPAIR MOVER TARGET SHEDS,
CARMOUCHE RANGE
FORT MOORE, GEORGIA

DRAWN BY	DRAWING NUMBER	SCALE
K. CHAN	44443-E4	NOTED
APPROVED J.C. VANTLAND	L&E NO:	DATE 02 FEB 24

REVISIONS: BY | DATE | SYMBOL



1 NEW LIGHTING AND POWER PLAN (TYPICAL FOR B8849, B8850, AND B8851)

E5

SCALE: 1/2" = 1'-0"

1 2 3 4 5 6 7 8

SPECIAL ELECTRICAL KEYED NOTES:

1. PROVIDE AND INSTALL A NEW 120/240V, 100A, MAIN CIRCUIT BREAKER, SINGLE-PHASE WITH 3-WIRE (2 HOT WIRES AND 1 NEUTRAL WIRE) PANELBOARD WITH 24 CIRCUIT SPACES.
2. RUN 3 #2 AWG COPPER WIRES, 1 #8 AWG COPPER GROUND WIRE IN 1 1/4-INCH (SCHEDULE 40 PVC AND EMT) CONDUIT FROM THE EXISTING 25 KVA PAD-MOUNTED TRANSFORMER TO THE NEW 100A, 120/240V, SINGLE-PHASE PANELBOARD.
3. PROVIDE AND INSTALL THE PANELBOARD GROUNDING TO THE GROUND ROD AND CONNECT TO THE EXISTING 25 KVA PAD-MOUNTED TRANSFORMER GROUNDING CIRCUIT.
4. PROVIDE AND INSTALL NEW LIGHT FIXTURES (FIXTURE A) AS INDICATED ON THE DRAWING. CONNECT THE NEW LIGHT FIXTURES TO THE NEW SWITCH LIGHT CONTROL.
5. PROVIDE AND INSTALL NEW LIGHT FIXTURES (FIXTURE B) AS INDICATED ON THE DRAWING. CONNECT THE NEW LIGHT FIXTURES TO THE NEW SWITCH LIGHT CONTROL
6. PROVIDE AND INSTALL FIVE DUPLEX RECEPTACLE OUTLETS AS INDICATED ON THE DRAWING. CONNECT THE RECEPTACLE OUTLETS TO THE NEW 100A, 120/240V, SINGLE PHASE PANELBOARD.
7. PROVIDE AND INSTALL A QUADRUPLEX RECEPTACLE OUTLET AS INDICATED ON THE DRAWING. CONNECT THE QUADRUPLEX RECEPTACLE OUTLET TO THE 100A, 120/240V, SINGLE PHASE PANELBOARD.
8. PROVIDE AND INSTALL A HEAVY DUTY DOUBLE THROW SAFETY SWITCH (TYPE VBII, 30 AMP, TYPE 3R) AS INDICATED ON THE DRAWING. THE SAFETY SWITCH IS DESIGNED TO USE AS TRANSFER EQUIPMENT ON OPTIONAL STANDBY SYSTEMS AS DEFINED BY ARTICLE 702 OF THE NEC.
9. PROVIDE AND INSTALL A DEDICATED 20A, 120/240V, 4-WIRE (TWO HOT WIRES, ONE NEUTRAL WIRE AND ONE EQUIPMENT GROUND WIRE) RECEPTACLE OUTLET (NEMA L4-20R TWIST LOCK POWER OUTLET) AS INDICATED ON THE DRAWING. THE POWER OUTLET SHOULD BE IN A WEATHERPROOF ENCLOSURE THAT PROVIDES A WEATHERTIGHT CONNECTION WHEN THE PLUG IS INSERTED.
10. RUN 3 #12 AWG COPPER WIRES, 1 #12 AWG COPPER GROUND WIRES IN 1/2-INCH EMT CONDUIT FROM THE HEAVY DUTY DOUBLE THROW SAFETY SWITCH TO A DEDICATED 20A, 120/240V, 4-WIRE RECEPTACLE OUTLET.
11. PROVIDE AND INSTALL A 30A GENERATOR POWER INLET BOX (WEATHERPROOF ENCLOSURE) AS INDICATED ON THE DRAWING. CONNECT THE GENERATOR POWER INLET BOX TO THE HEAVY DUTY DOUBLE THROW SAFETY SWITCH (TYPE VBII, 30 AMP, TYPE 3R) AS INDICATED ON THE DRAWING.
12. RUN 3 #10 AWG COPPER WIRES, AND 1 #10 AWG COPPER GROUND WIRE IN 1/2-INCH RIGID GALVANIZED STEEL CONDUIT FROM THE HEAVY DUTY DOUBLE THROW SAFETY SWITCH TO A 30A GENERATOR POWER INLET BOX.

LEGEND

A — PENDANT LIGHTS	TRANSFER SWITCH
B — LED POT VAPOR PROOF LIGHTS	S — LIGHT SWITCH
DUPLEX RECEPTACLE	WP G — GENERATOR POWER INLET BOX
QUADRAPLEX RECEPTACLE	WP C — CHARGING STATION RECEPTACLE

FIXTURE SCHEDULE

TYPE	LAMP	MOUNTING	
A	LED	PENDANT	GLOBAL LIGHTING PERSPECTIVES CAT# GC6022-TG-G2LED80-T3-40K-PCLL-26HSS-BT
			GC6000 SERIES LUMINAIRE - LED : STYLISH AND EFFICIENT PENDANT MOUNTED CONTEMPORARY LIGHTING FIXTURE (USE 1 1/4" THREADED PIPE MOUNTING).
			GLOBAL LIGHTING PERSPECTIVES WEBSITE: WWW.GLPLLC.CO
B	LED	WALL	ABOVE ALL LIGHTING CAT# P-VP-12-LED-50-1-W
			ABOVE ALL LIGHTING: LED POT VAPOR PROOF LIGHT ARE DESIGN TO REPLACE WITH CFL FIXTURES WITH HIGH QUALITY, LONG-LASTING ILLUMINATION OVER DOORWAY.
			ABOVE ALL LIGHTING WEBSITE: WWW.ABOVEALLLIGHTING.COM

NOTE:

THE MENTION OF A MANUFACTURER'S PRODUCT BY NAME AND PART NUMBER IN THE LUMINAIRE SCHEDULE IS NOT INTENDED TO CLOSE THAT SPECIFICATION, BUT RATHER IT IS INTENDED TO ESTABLISH A MINIMUM LEVEL OF PRODUCT QUALITY AND OPERATION.

35% DESIGN BID DOCUMENTS

12" 0' 1' 2' 3' 4' 5'

SCALE: 1/2 INCH = 1 FOOT

NEW LIGHTING AND POWER PLAN (TYPICAL FOR B8849, B8850, AND B8851)

REVISIONS: BY | DATE | SYMBOL

DIRECTORATE OF PUBLIC WORKS
FORT BENNING, GEORGIA

REPAIR MOVER TARGET SHEDS,
CARMOUCHE RANGE
FORT MOORE, GEORGIA

DRAWN BY: K. CHAN	DRAWING NUMBER: 44443-E5	SCALE: NOTED
APPROVED: J.C. VANTLAND	L&E NO:	DATE: 02 FEB 24

PANEL SCHEDULE

NEW PANEL

MTC AT B8849, B8850, B8851 — PANEL AIC RATING: 10,000 AMPS

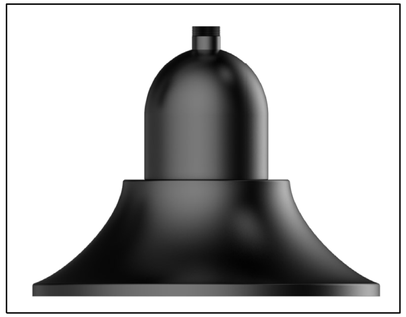
SURFACE MOUNTED — VOLTS 120/240 — PHASE 1 — WIRES 3 — MAINS: 100A WITH 100A CB

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA A	PHASE LOAD VA B	LOAD SERVED	CIRC NO.	TRIP AMPS	NO. POLES
1	20	1	FIXTURE A & B	600		QUADRUPLEX REC	2	20	1
					360				
3	20	1	SPARE	900		SPARE	4	20	1
5	20	1	SPARE			SPARE	6	20	1
7	20	1	SPARE			SPARE	8	20	1
9	20	1	SPARE			SPARE	10	20	1
11	20	1	SPARE			SPARE	12	20	1
13	20	1	SPARE			SPARE	14	20	1
15	20	1	SPARE			SPARE	16	20	1
17			SPACE			SPACE	18		
19			SPACE			SPACE	20		
21			SPACE			SPACE	22		
23			SPACE			SPACE	24		
			TOTAL	1500	360				

TOTAL CONNECTED LOAD 100% 1.86 KVA

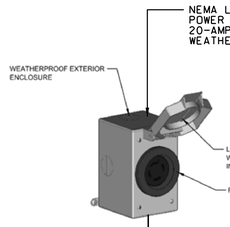
ESTIMATED DEMAND LOAD 85% 1.58 KVA

DEMAND LINE AMPS = 7 A



FIXTURE A

FIXTURE B



NEW RISER DIAGRAM AT B8849, B8850, AND B8851 IN CARMOUCHE RANGE

35% DESIGN BID DOCUMENTS

EXISTING LIGHTING AND POWER PLAN

DIRECTORATE OF PUBLIC WORKS

FORT BENNING, GEORGIA

REPAIR MOVER TARGET SHEDS, CARMOUCHE RANGE FORT MOORE, GEORGIA

DRAWN BY	DRAWING NUMBER	SCALE
K. CHAN	44443-E6	NOTED
APPROVED J.C. VANTLAND	L&E NO:	DATE 02 FEB 24

REVISIONS — DATE — BY — SYMBOL