AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE	OF PAGES
		1	7

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
0002	06/24/2026	7440851	

6. ISSUED BY	Code N40085	7. ADMINISTERED BY (If other than item 6.)	Code
CG MCAS Cherry Point FACILITIES, ROICC B-87, 748 Roosevelt Blvd. PSC BOX 8006 MCAS CHERRY POINT NC 28533-0012			

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	☒	9A. AMENDMENT OF SOLICITATION N400857440851
		9B. DATED (SEE ITEM 11)
AMENDMENT MUST BE ACKNOWLEDGED WITH YOUR PROPOSAL	☐	10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 13)
CODE / FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers ☐ **is extended** ☒ **is not extended**. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning 1 copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

☐ A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14. ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

☐ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATION CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103 (b).

☐ C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

☐ D. OTHER: (specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not ☐ is required to sign this document and return **original** to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

7440851 Replace Chiller & Cooling Tower B4225, Station Marine Corps Air Station Cherry Point, NC

The proposed PPI end date of 03 July 2026 by 1400 remains unchanged.

The proposal due date of 15 July 2026 at 1000 local time remains unchanged.

The purpose of this amendment is to answer pre-proposal inquiries (PPIs).

See attached.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR (Same as Item 8) (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED

RFI Responses:

A. This amendment provides responses to pre-proposal inquiries:

1. MCAS CP FRCS Standardization (Attached): In accordance with MCAS CP FRCS Standardization for JCI Metasys branded products, please include "J&A ML-25-03 Class FRCS Cherry Point" within the next amendment

   Response: Concur.

2. Chilled Water Control Points: M-702 shows several writeable outputs and control dependent inputs via network connection. This will not provide reliable control if network connection is lost. Revise all writeable outputs and the control dependent inputs to be hardwired to JCI Metasys controller

   Response: M-702 revised as requested. See attached updated M-702 drawing (NAVFAC # 12939367)

3. BTU Meter: M-702 shows a BTU meter being installed. For cost savings, the 2 temperature sensors and 1 flow meter shown on M-702 could be used to calculate BTU within JCI Metasys controller. Please confirm removal of BTU meter hardware.

   Response: Non-concur. TS-1 and TS-2 measure temperature out to system while FMS-1 measures plant flow on other side of bypass valve for ensuring chiller min flow is maintained. Provide BTU meter per drawings.

4. Control drawing M-702 indicates that there is a heat trace controller included in the project however neither the mechanical drawings (including sequence of operation) nor the electrical drawings stipulate the provision of a heat trace controller or the power wiring for it. Please confirm whether a heat trace controller is included in the project and if so, revise the mechanical and electrical drawings accordingly.

   Response: Heat trace controller identified on E-401 and noted to be provided on mechanical sheet M-402 keynote 5 and per detail 7/M-501. Provide evaporator low ambient heater per chiller schedule note I on M-601. Coordinate exact power requirements with chiller manufacturer. Reference amendment 2 electrical modification identifying an additional dedicated power connection for chiller low ambient kit evaporator heater. Field provided heat trace must extend to limits of factory installed systems to avoid gapping of heat trace freeze protection.

5. The chiller schedule indicates a full load capacity of 290.5 tons at 55°F EWT, 44°F LWT, and 655 GPM. Our proposed chiller provides 290.5 tons at 55°F EWT, 44°F LWT, and 632.1 GPM. Will this be acceptable? Based on the scheduled flow rate of 655 GPM and an 11°F temperature differential, the calculated load is approximately 300 tons, which exceeds the scheduled full load capacity of 290.5-tons.

   Response: The proposed flow rate is acceptable.

B. This amendment incorporates the following attachments:

1. NAVFAC DWG NO. M-702, E-401, E,403, and E-601

C. All other contract terms and conditions remain unchanged.

DESIGN INTENT
THE CHILLED WATER SYSTEM IS AN AIR-COOLED CHILLER PLANT WITH VARIABLE PRIMARY PUMPING SYSTEM. THE CHILLERS ARE IN A LEAD-LAG OPERATION AND PUMPS HAVE N+1 REDUNDANCY.

THE CHILLED WATER PLANT SERVES THE BUILDING HVAC EQUIPMENT. THE HVAC SYSTEM CONSISTS OF MULTIPLE ROOFTOP AIR HANDLER UNITS AND AIR HANDLER UNITS 2-WAY COOLING COILS.

GENERAL
IF REQUIRED BY THE CHILLER MANUFACTURER'S WRITTEN INSTRUCTIONS, PROVIDE DIFFERENTIAL PRESSURE TRANSMITTER DPT-X. WHEN THE PRESSURE DROP ACROSS THE CHILLER MEETS THE PRESSURE DROP ASSOCIATED WITH THE CHILLER MANUFACTURER'S REQUIRED MINIMUM FLOW THE CHILLER WILL BE ENABLED TO START.

UPON PROOF OF FLOW IN ACCORDANCE WITH CHILLER MANUFACTURER'S WRITTEN INSTRUCTIONS, THE SELF CONTAINED CHILLER CONTROLS WILL START AND MODULATE THE CHILLER CAPACITY TO MAINTAIN SETPOINT.

DISPLAY BTUM-1 TONNAGE, CHILLED WATER FLOW RATE (GPM), AND TEMPERATURES ON GRAPHIC.

RECORD INSTANTANEOUS TOTAL PLANT POWER (KW), PLANT PRODUCTION (TONS) AND CHILLED WATER FLOW (GPM) EVERY 5 MINUTES. INSTANTANEOUS TOTAL PLANT POWER (KW) IS THE SUM OF THE TOTAL KW FROM OPERATING CHILLERS, AND CHILLED WATER PUMPS. CHILLED WATER PUMP KW IS BASED UPON MEASURED CURRENT FROM TAB REPORT.

MONTHLY PRODUCTION REPORT: FOR A SPECIFIED 24 MONTH PERIOD, BY MONTH, DISPLAY: TOTAL GALLONS, TOTAL TON-HOURS, TOTAL KWH, AVERAGE KW/TON, AVERAGE GPM, AND AVERAGE OUTSIDE AIR TEMPERATURE. PROVIDE A BUTTON ON THE GRAPHICS TO GENERATE AND VIEW THE REPORT.

HOURLY PRODUCTION REPORT: FOR A SPECIFIED 24 HOUR PERIOD, BY HOUR, DISPLAY: TOTAL GALLONS, TOTAL TON-HOURS, TOTAL KWH, AVERAGE KW/TON, AND AVERAGE GPM. PROVIDE A BUTTON ON THE GRAPHICS TO GENERATE AND VIEW THE REPORT.

CHILLER
CHILLED WATER SYSTEM START / STOP: THE CHILLED WATER SYSTEM WILL BE ENABLED TO START AND STOP BY THE BAS. THERE IS NO TIME DELAY DURING OPTIMUM START AND OPTIMUM STOP.

ON A CALL FOR THE CHILLED WATER SYSTEM TO START, OPEN LEAD CHILLER VALVE V-CH-X. START LEAD CHILLED WATER PUMP AND ENABLE LEAD CHILLER.

ON COMMAND TO START A SECOND CHILLER, START ASSOCIATED PUMP AND OPEN CHILLER VALVE V-CH-X PRIOR TO ENABLING LAG CHILLER. UPON PROOF OF FLOW, ENABLE LAG CHILLER. ON COMMAND TO STOP THE SECOND, THE REVERSE WILL OCCUR.

THE OWS WILL COMMAND AN ADDITIONAL CHILLER ON WHEN CHILLED WATER SUPPLY TEMPERATURE AS SENSED BY TEMPERATURE TRANSMITTER TS-1 IS 1.5 DEGREES F ABOVE PLANT CHILLED WATER SETPOINT CONTINUOUSLY FOR 15 MINUTES, OR

THE OWS WILL COMMAND A CHILLER OFF WHEN ALL OF THE FOLLOWING OCCUR:

1. CHILLER CAPACITY IS NOT NEEDED: WHEN THE TOTAL ELECTRICAL DEMAND (SUM OF KW OR AMPERES) IS 90% OF A SINGLE CHILLER ELECTRICAL DEMAND, TURN OFF THE SECOND CHILLER.

2. IF THE MEASURED FLOW AT FMS-1 IS LESS THAN 590 GPM WHEN BOTH CHILLERS ARE RUNNING.

PROVIDE A ONE HOUR DELAY BETWEEN STARTING AND STOPPING OF CHILLERS.

WHEN THE FIRST CHILLED WATER PUMP IS AT MAXIMUM SPEED AND UPON A CONTINUED FALL IN DIFFERENTIAL PRESSURE AT DPT-CW BELOW SETPOINT, SEND ALARM TO OWS. THE SECOND PUMP WILL START UPON OPERATOR MANUAL APPROVAL AT OWS. UPON A FALL IN PUMP SPEED TO 75%, THE SECOND PUMP WILL STOP. PROVIDE A 15 MINUTE TIME DELAY BETWEEN PUMP STARTS AND STOPS. IF OPERATING, STOP LAG PUMP EACH NIGHT AT 2000 HOURS.

THE SELF-CONTAINED CHILLER CONTROLS WILL MODULATE THE CHILLER CAPACITY TO MAINTAIN PLANT CHILLED WATER SETPOINT.

ON A CALL FOR THE CHILLED WATER SYSTEM TO STOP, STOP ALL CHILLERS AND PUMPS AND RETURN ALL VALVES TO THE NORMAL POSITION.

LEAD/LAG SELECTION
THE SELECTION OF THE LEAD AND LAG CHILLED WATER PUMPS AND CHILLERS WILL BE MADE MANUALLY AT THE OWS. THE LEAD/LAG EQUIPMENT WILL ALTERNATE AUTOMATICALLY BASED ON EQUIPMENT ROTATION PARAGRAPH BELOW.

CHILLERS AND PUMPS INPUT AS "OUT OF SERVICE" WILL BE SKIPPED OVER IN THE STARTING AND STOPPING SEQUENCE.

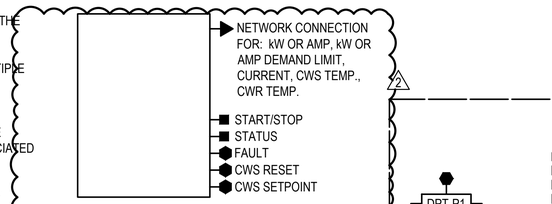
EQUIPMENT ROTATION: AUTOMATICALLY ALTERNATE THE FOLLOWING TO EQUALIZE THE RUN TIMES, WITH A MINIMUM OF ONCE PER WEEK:
CHILLED WATER PUMPS CWP-1, CWP-2, AND CWP-3 AND CHILLER CH-1 AND CH-2

PUMPS
LEAD PUMP START/STOP: THE LEAD CHILLED WATER PUMP WILL BE STARTED BY THE BAS WHEN THE CHILLER IS ENABLED. THE PUMP WILL BE STOPPED WHEN THE CHILLER IS DISABLED.

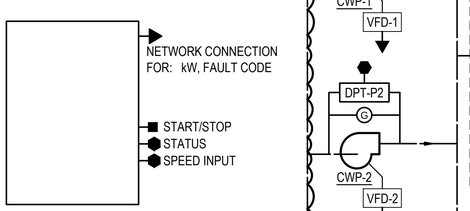
PUMP SPEED: ON A FALL IN SYSTEM DIFFERENTIAL PRESSURE BELOW SETPOINT (INITIAL 40' W.G., SEE NOTE 1), AS SENSED BY DPT-CW, THE PUMP SPEED WILL INCREASE. ON A RISE IN PRESSURE THE REVERSE WILL OCCUR. CHILLED WATER BYPASS VALVE V-1 WILL BE MODULATED TO MAINTAIN A MINIMUM FLOW THROUGH THE OPERATING CHILLER AS MEASURED BY FLOW METER FMS-1. CONFIRM MINIMUM FLOW WITH MANUFACTURER. UPON ACTIVATION OF LAG CHILLER, VALVE V-1 SETPOINT WILL INCREMENT TO CUMULATIVE MINIMUM FLOW OF BOTH CHILLERS.

RESETS: WHEN THE MOST DEMANDING CHILLED WATER VALVE IS 85% OPEN OR LOWER FOR 5 MINUTES, CHILLED WATER DIFFERENTIAL PRESSURE SETPOINT WILL BE RESET LOWER, IN ACCORDANCE WITH ASHRAE 90.1. WHEN THE MOST DEMANDING VALVE IS 95% OPEN OR HIGHER FOR 5 MINUTES, THE REVERSE WILL OCCUR.

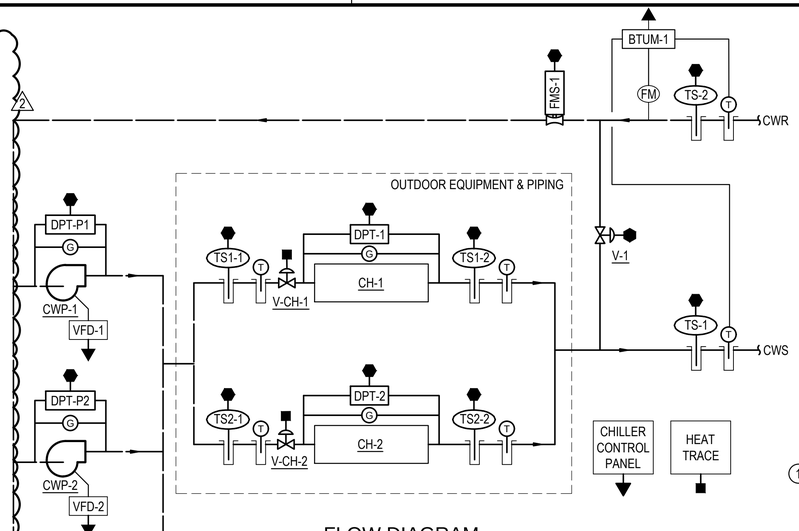
PUMP ROTATION: ON A FAILURE OF THE LEAD PUMP, THE LAG PUMP WILL BE STARTED AND AN ALARM INDICATED AT THE BAS.



CHILLER CONTROL PANEL WIRING DIAGRAM



CWP-1,2,3 VFD WIRING DIAGRAM



FLOW DIAGRAM

POWER FAILURE - AUTOMATIC RESTART
UPON RESTORATION OF POWER, DRIVE ALL VALVES TO NORMAL POSITIONS. THE BAS WILL AUTOMATICALLY RESTART LEAD CHILLER TO TIME OF DAY SCHEDULE. IF THE EQUIPMENT DOES NOT START, IMPLEMENT PROCEDURE FOR EQUIPMENT FAILURE. POWER INTERRUPTION RESETS/OVERRIDES THE CHILLER LOCKOUT TIMER.

PLANT OPERATION - EQUIPMENT FAILURE
IF ANY PIECE OF EQUIPMENT FAILS TO START FOR WHATEVER REASON, THE BAS WILL AUTOMATICALLY IMPLEMENT THE NORMAL SEQUENCE TO START THE LAG DEVICE.

SAFETIES:
IF ANY PIECE OF EQUIPMENT FAILS TO START FOR WHATEVER REASON, THE BAS WILL PROVIDE AN ALARM AT THE OWS.

FREEZE PROTECTION
IF BOTH CHILLERS ARE OFF, ENERGIZE BOTH CHILLED WATER PUMPS AT 36°F AMBIENT TEMPERATURE OR BELOW AND OPEN CHILLER VALVES. IF THERE IS NO CALL FOR COOLING AND AMBIENT TEMPERATURE RISES TO 38°F OR HIGHER, THE REVERSE WILL OCCUR.

IF ONE CHILLER IS ENERGIZED AND THE OTHER IS OFF, ENERGIZE LAG PRIMARY CHILLED WATER PUMP AT 36°F AMBIENT TEMPERATURE OR BELOW AND OPEN CHILLER VALVE FOR THE DE-ENERGIZED CHILLER. IF THERE IS NO CALL FOR COOLING AT THE DE-ENERGIZED CHILLER AND AMBIENT TEMPERATURE RISES TO 38°F OR HIGHER, THE REVERSE WILL OCCUR.

COMMISSIONING
ALL SETPOINTS, PERCENTAGES, TIME DELAYS, ETC. MUST BE ADJUSTABLE.

ALLOW THREE DAYS ON WEEKENDS FOR FINAL TESTING.

POINTS LIST [1]

POINT NAME	DESCRIPTION	NETWORK CONNECTION	I/O TYPE	ALARMS FAIL	ALARMS WARNING LOW	ALARMS WARNING HIGH	ALARMS LIMIT LOW	ALARMS LIMIT HIGH	TRENDING Cx FREQUENCY	TRENDING OPERATING FREQUENCY
VFD-1,2,3	CHILLED WATER PUMP (QTY. 3)	X								
VFD-1,2,3	START/STOP (QTY. 3)		BO						COV	COV
VFD-1,2,3	SPEED COMMAND (QTY. 3)		AO						5min	15min
VFD-1,2,3	MOTOR OPERATION STATUS(QTY. 3)		AI	X					COV	COV
VFD-1,2,3	VFD FAULT (QTY. 3)		AI	X					COV	COV
VFD-1,2,3	kW (QTY. 3)		AI						5min	15min
CH-1, 2	CHILLER (QTY. 2)	X								
CH-1, 2	START/STOP (QTY. 2)		BO						COV	COV
CH-1, 2	STATUS (QTY. 2)		BI						COV	COV
CH-1, 2	FAULT (QTY. 2)		AI	X					COV	COV
CH-1, 2	CWS RESET (QTY. 2)		AO						COV	COV
CH-1, 2	CWS SETPOINT (QTY. 2)		AO						COV	COV
CH-1, 2	CURRENT (QTY. 2)		AI						5min	15min
CH-1, 2	kW OR AMP (QTY. 2)		AI						5min	15min
CH-1, 2	kW OR AMP DEMAND LIMIT (QTY. 2)		AI						5min	15min
CH-1, 2	CWS TEMP (QTY. 2)		AI		40°F	54°F	38°F	58°F	5min	15min
CH-1, 2	CWR TEMP (QTY. 2)		AI			62°F		66°F	5min	15min
BTUM-1	BTU METER	X							COV	COV
	TEMPERATURE SENSOR SUPPLY								5min	15min
	TEMPERATURE SENSOR RETURN								5min	15min
	FLOW METER								5min	15min
	BTU								5min	15min
DPT-CW	CHILLED WATER DIFFERENTIAL PRESSURE		AI						5min	15min
DPT-PX	PUMP DIFFERENTIAL PRESSURE		AI						5min	15min
DPT-1,2	EVAPORATOR PRESSURE DROP		AI						5min	15min
FMS-1	FLOW MEASURING STATION		AI						5min	15min
TSX-1	CHILLER ENTERING TEMPERATURE		AI						5min	15min
TSX-2	CHILLER LEAVING TEMPERATURE		AI						5min	15min
TS-1	CHILLED WATER SUPPLY TEMP.		AI						5min	15min
TS-2	CHILLED WATER RETURN TEMP.		AI						5min	15min
V-1	CHILLED WATER BYPASS VALVE		AO						5min	15min
V-CH-X	CHILLER FLOW CONTROL VALVE		AO						5min	15min
HEAT TRACE	HEAT TRACE FAILURE		BI	X					COV	COV

[1] ALL POINTS INCLUDED ON LIST MUST BE SHOWN ON THE OWS GRAPHICS.

NOTES

1. DETERMINE DIFFERENTIAL PRESSURE SETPOINT TO MAINTAIN ADEQUATE FLOW THROUGH THE CHILLED WATER PIPING SYSTEM.
2. COORDINATE WITH AND IMPLEMENT SPECIFIC CHILLER MANUFACTURER WRITTEN REQUIREMENTS, INCLUDING BUT NOT LIMITED TO: HARDWARE CONNECTIONS FROM CHILLERS TO BAS TO START CHILLED WATER PUMPS AND OPEN ASSOCIATED VALVES V-CH-X & HARDWARE DIFFERENTIAL PRESSURE SWITCHES OR FLOW SWITCHES.
3. LOCATE DPT-CW IN PIPING ENCLOSURE ON ROOF FOR EXISTING ROOF TOP UNIT 1. SEE M-403 FOR EXACT LOCATION.

CHILLED WATER PLANT ②

APPR	DATE	DESCRIPTION	CHK
	18 JUNE 2026	ADDENDUM 2	WAN

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4325 Lake Boone Trail | Suite 301 | Raleigh, NC 27607
(984) 204-4500 | www.summerconsultants.com

FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES ZAC | DRW ZAC | CHK WAN
<<PM/DM>> NICHOLAS A. HALL
BRANCH MANAGER PATRICK FAULKNER
CHIEF ENGIARCH
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
FACILITIES ENGINEERING & ACQUISITIONS DIVISION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
MCAS CHERRY POINT - CHERRY POINT, NC
MCAS CHERRY POINT, NC
CHERRY POINT, NC
REPLACE CHILLERS & COOLING TOWER
BUILDING 4225
CONTROLS

SCALE: AS NOTED
EPROJECT NO.: 7440851
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12939367
SHEET 23 OF 39
M-702

FILE NAME: 231.007 M-702.DWG
OUR REF: 231.007
PLOT DATE: 6/18/2026 2:07:11 PM

GENERAL NOTES

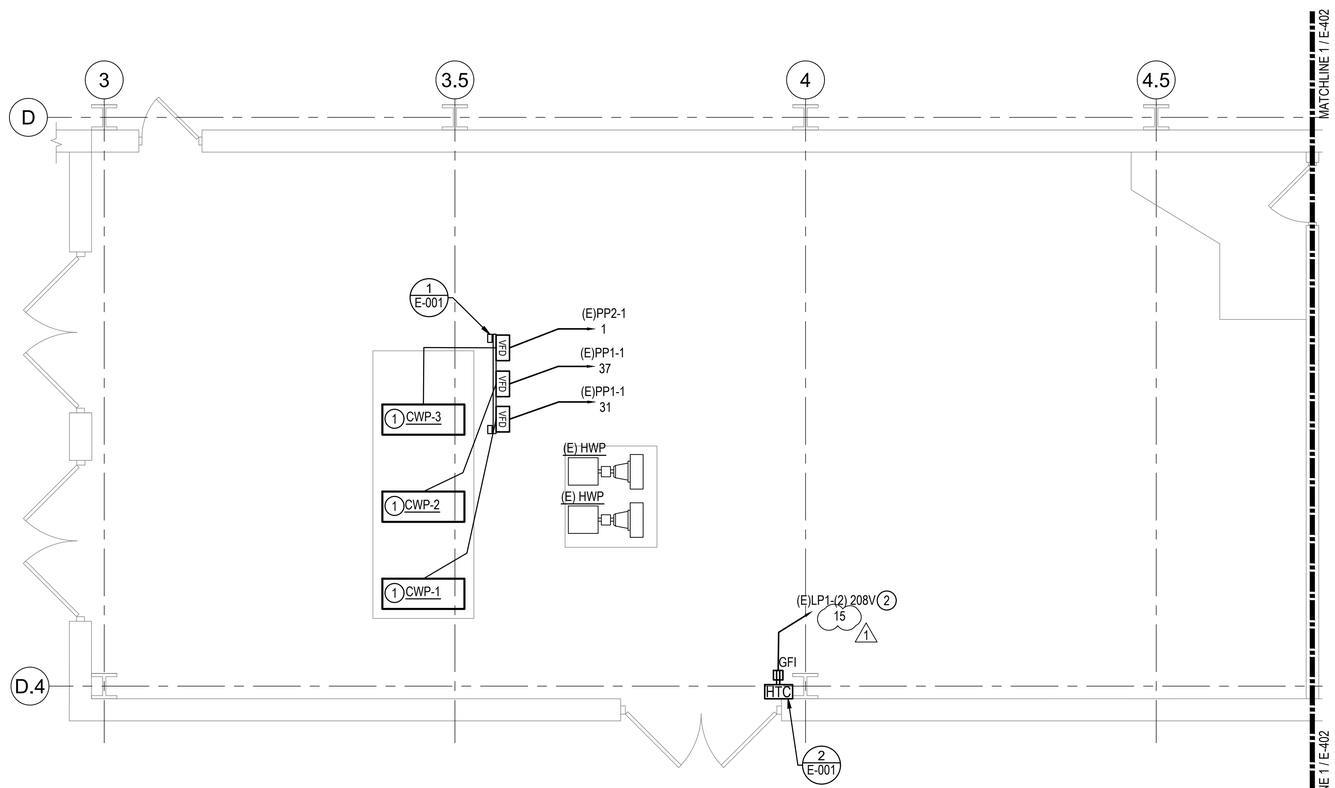
G1. ALL WORK MUST BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXIST.", OR "(E)".

G2. VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.

NOTES

1. REFER TO THE MOTOR AND EQUIPMENT SCHEDULE ON SHEET E-601 FOR THE EQUIPMENT CONDUIT AND CONDUCTOR SIZES.

2. PROVIDE HEAT TRACE CONTROLLER WITH NEMA 5-20 GFI RECEPTACLE AND PLUG.

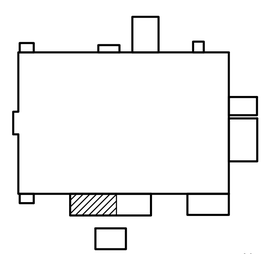


1 MECHANICAL ROOM PLAN

1/4"=1'-0"

0 4' 8'

N



KEY PLAN

N.T.S.

N

NO.	DESCRIPTION	DATE	APPR
1	ADDENDUM 2	18 JUNE 2026	

NAVFAC

NORTH CAROLINA PROFESSIONAL SEAL 057761 ENGINEER WILLIAM E. MARCINIAK

6/18/2026

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FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES	GB	DRW	GB	CHK	WM

<<PMDM>> NICHOLAS A. HALL

BRANCH MANAGER PATRICK FAULKNER

CHIEF ENG/ARCH

<<DD>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
FACILITIES ENGINEERING & ACQUISITIONS DIVISION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MCAS CHERRY POINT - CHERRY POINT, NC

MCAS CHERRY POINT, NC
CHERRY POINT, NC
REPLACE CHILLERS & COOLING TOWER
BUILDING 4225

MECHANICAL ROOM PLAN

SCALE: AS NOTED

EPROJECT NO.: 7440851

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12939375

SHEET 31 OF 39

E-401

FILE NAME: 231.007 E-401.DWG
OUR REF: 231.007
PLOT DATE: 6/18/2026 3:23:03 PM

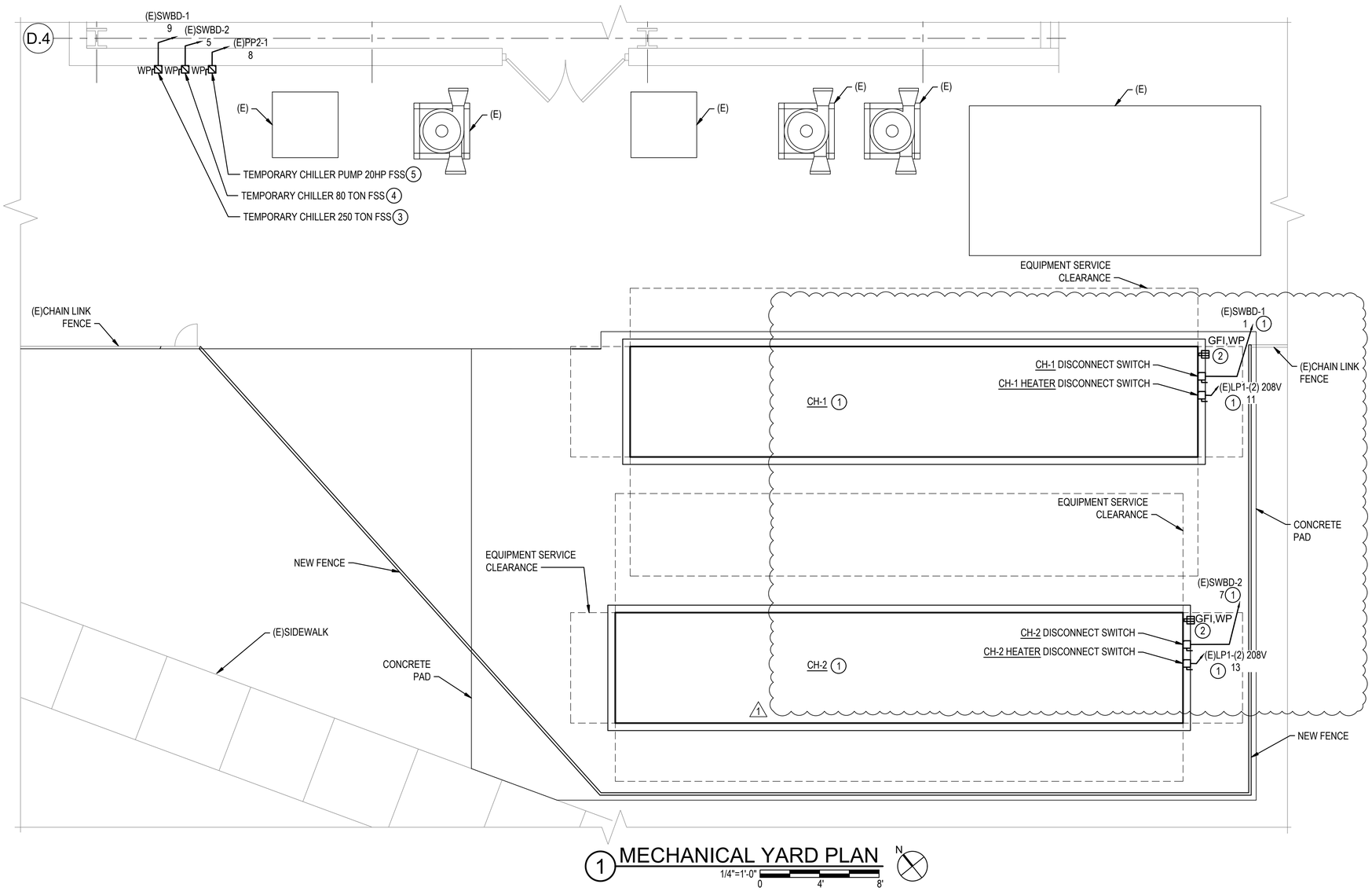
GENERAL NOTES

G1. ALL WORK MUST BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXIST.", OR "(E)".

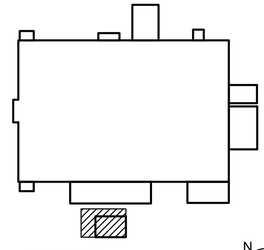
G2. VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.

NOTES

1. REFER TO THE MOTOR AND EQUIPMENT SCHEDULE ON SHEET E-601 FOR THE EQUIPMENT CONDUIT AND CONDUCTOR SIZES.
2. PROVIDE EQUIPMENT WITH FACTORY INSTALLED WEATHERPROOF GFI SERVICE RECEPTACLE INSTALLED AHEAD OF DISCONNECT SWITCH.
3. PROVIDE A NEMA 3R, 600A, 3P, HEAVY DUTY FUSED SAFETY SWITCH FUSED WITH 600A RK5 TYPE FUSES FOR 250 TON TEMPORARY CHILLER.
4. PROVIDE A NEMA 3R, 200A, 3P, HEAVY DUTY FUSED SAFETY SWITCH FUSED WITH 200A RK5 TYPE FUSES FOR 80 TON TEMPORARY CHILLER.
5. PROVIDE A NEMA 3R, 60A, 3P, HEAVY DUTY FUSED SAFETY SWITCH FUSED WITH 60A RK5 TYPE FUSES FOR TEMPORARY CHILLER PUMP.



1 MECHANICAL YARD PLAN
1/4"=1'-0"
0 4' 8'
N



KEY PLAN
N.T.S.
N

NO.	DESCRIPTION	DATE	APPR
1	ADDENDUM 2	18 JUNE 2026	

NAVFAC

NORTH CAROLINA PROFESSIONAL SEAL 057761 ENGINEER WILLIAM E. MARCINIAK
6/18/2026

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(984) 204-4500 | www.summerconsultants.com

FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES	GB	DRW	GB	CHK	WM

<<PM/DM>> NICHOLAS A. HALL
BRANCH MANAGER PATRICK FAULKNER
CHIEF ENG/ARCH
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
FACILITIES ENGINEERING & ACQUISITIONS DIVISION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
MCAS CHERRY POINT - CHERRY POINT, NC
MCAS CHERRY POINT, NC
CHERRY POINT, NC
REPLACE CHILLERS & COOLING TOWER
BUILDING 4225
MECHANICAL YARD PLAN

SCALE: AS NOTED
EPROJECT NO.: 7440851
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12939377
SHEET 33 OF 39
E-403

FILE NAME: 231.007 E-403.DWG
OUR REF: 231.007
PLOT DATE: 6/18/2026 3:23:12 PM

MOTOR AND EQUIPMENT SCHEDULE

EQUIPMENT NAME	HP	KW	RATED VOLT.	PHASE	FLA	MOTOR CONTROLLER TYPE	MOTOR CONTROLLER LOCAL CONTROL	FEEDER WIRE SETS	FEEDER WIRE NO.	FEEDER WIRE SIZE	FEEDER WIRE GRD.	FEEDER CONDUIT	LOCAL SWITCH TYPE ①	LOCAL SWITCH SIZE	LOCAL SWITCH POLES	REMARKS
CH-1	--	385	460	3Ø	519.34	INTEGRAL TO SYSTEM		2	3	350 KCMIL	#1/0	2'-1/2"	NFSS	600A	3	--
CH-2	--	385	460	3Ø	519.34	INTEGRAL TO SYSTEM		2	3	350 KCMIL	#1/0	2'-1/2"	NFSS	600A	3	--
CH-1 HEATER	--	2.44	115	1Ø	20	N/A		1	2	#8	#8	3/4"	NFSS	30A	1	--
CH-2 HEATER	--	2.44	115	1Ø	20	N/A		1	2	#8	#8	3/4"	NFSS	30A	1	--
TEMP. CHILLER 250 TON	--	293	460	3Ø	353	INTEGRAL TO SYSTEM		2	3	350 KCMIL	#1	2-1/2"	FSS	600A	3	--
TEMP. CHILLER 80 TON	--	99	460	3Ø	125	INTEGRAL TO SYSTEM		1	3	#3/0	#6	2"	FSS	200A	3	--
TEMP. CHILLER PUMP 20HP	20	--	460	3Ø	27	INTEGRAL TO SYSTEM		1	3	#4	#10	1"	FSS	60A	3	--
CWP-1	20	--	460	3Ø	27	VARIABLE FREQUENCY DRIVE		1	3	#4	#10	1"	FSS	N/A	3	③
CWP-2	20	--	460	3Ø	27	VARIABLE FREQUENCY DRIVE		1	3	#4	#10	1"	FSS	N/A	3	③
CWP-3	20	--	460	3Ø	27	VARIABLE FREQUENCY DRIVE		1	3	#4	#10	1"	FSS	N/A	3	③

NOTES:

① NFSS - NON FUSED SAFETY SWITCH
FSS - FUSED SAFETY SWITCH
MRT - MOTOR RATED TOGGLE SWITCH
INT - INTEGRAL WITH MOTOR CONTROLLER

② SEE MECHANICAL DRAWINGS FOR AUXILIARY CONTACT REQUIREMENTS.

③ PROVIDE VFD CABLING FROM VFD TO MOTOR PER SPECIFICATIONS. COORDINATE CONDUIT SIZE WITH SELECTED VFD CABLING.

(E)PANEL LP1-(2) 208V

MAIN BUS SIZE (AMPS):	125	INTERRUPT. RATING (KAIC):	10			NEUTRAL BUS SIZE:	100%	MOUNTING TYPE:	SURFACE						
MAIN BUS MATERIAL:	COPPER	VOLTAGE:	120	/	208	SECTION NO.:	1 OF 1	LOCATION:	MAIN ELECTRIC ROOM						
MAIN CIRCUIT BREAKER (AMPS):	50	PHASE:	3	WIRE:	4	ENCLOSURE TYPE:	NEMA 1	BOLT-ON BRANCH CIRCUIT BREAKERS							

CKT NO.	DESCRIPTION	LOAD TYPE	LOAD (KVA)	BREAKER AMPS	BREAKER POLES				BREAKER POLES	BREAKER AMPS	LOAD (KVA)	LOAD TYPE	DESCRIPTION	CKT NO.
1	(E)REFRIGERANT HORN	N	0.21	20	1	A			1	20	0.21	N	(E)REFRIGERANT HORN	2
3	(E)REFRIGERANT HORN	N	0.21	20	1		B		1	20	0.42	N	(E)REFRIGERANT HORN	4
5	(E)REFRIGERANT HORN	N	0.21	20	1			C	1	20	0.00	N	SPARE	6
7	(E)REFRIGERANT HORN	N	0.21	20	1	A			1	20	0.42	N	(E)EXITS LIGHTS & RECEPT	8
9	(E)DDC CONTROL PANEL	C	0.42	20	1		B		1	20	1.00	N	(E)SCALE WATER	10
11	CH-1 HEATER	C	2.44	30	1			C	1	20	0.50	N	(E)LIGHTS UNDER MEZZ.	12
13	CH-2 HEATER	C	2.44	30	1	A			1	20	0.50	N	(E)SPORWORS I.D.S	14
15	HEAT TRACE	C	1.29	20	1		B		1	20	0.00	N	(E)SPACE	16
17	(E)SPACE	N	0.00	20	1			C	1	20	0.00	N	(E)SPACE	18
19	(E)SPACE	N	0.00	20	1	A			1	20	0.00	N	(E)SPACE	20
21	(E)SPACE	N	0.00	20	1		B		1	20	0.00	N	(E)SPACE	22
23	(E)SPACE	N	0.00	20	1			C	1	20	0.00	N	(E)SPACE	24
25	(E)SPACE	N	0.00	20	1	A			1	20	0.00	N	(E)SPACE	26
27	(E)SPACE	N	0.00	20	1		B		1	20	0.00	N	(E)SPACE	28
29	(E)SPACE	N	0.00	20	1			C	1	20	0.00	N	(E)SPACE	30

CONNECTED LOAD PER PHASE (kVA) =	4.0	3.3	3.1
(AMPS) =	33.2	27.8	26.2

TOTAL CONNECTED LOAD = 10.5 KVA 29.1 AMPS
TOTAL DEMAND LOAD = 12.1 KVA 33.6 AMPS

LOAD TYPES: C = CONTINUOUS, R = RECEPTACLE, M = MOTOR, N = NON-CONTINUOUS

(E)PANEL LP1-(2) 480V

MAIN BUS SIZE (AMPS):	400	INTERRUPT. RATING (KAIC):	18			NEUTRAL BUS SIZE:	100%	MOUNTING TYPE:	SURFACE						
MAIN BUS MATERIAL:	COPPER	VOLTAGE:	277	/	480	SECTION NO.:	1 OF 1	LOCATION:	MAIN ELECTRIC ROOM						
MAIN CIRCUIT BREAKER (AMPS):	250	PHASE:	3	WIRE:	4	ENCLOSURE TYPE:	NEMA 1	BOLT-ON BRANCH CIRCUIT BREAKERS							

CKT NO.	DESCRIPTION	LOAD TYPE	LOAD (KVA)	BREAKER AMPS	BREAKER POLES				BREAKER POLES	BREAKER AMPS	LOAD (KVA)	LOAD TYPE	DESCRIPTION	CKT NO.
1	(E)ZONE 1 - AISLE 121, RM 159	N	UNK	20	1	A			1	20	0.00	N	(E)SPARE	2
3	(E)ZONE 1 - AISLE 121, RM 160	N	UNL	20	1		B		1	20	UNK	N	(E)ZONE 6 - MACHINING/GRINDING	4
5	(E)ZONE 1 - AISLE 124, RM 132 PRODUCT	N	UNK	20	1			C	1	20	UNK	N	(E)ZONE 6 - MACHINING/GRINDING	6
7	(E)ZONE 1 - AISLE 124, RM 132 PRODUCT	N	UNK	20	1	A			1	20	UNK	N	(E)ZONE 6 - MACHINING/GRINDING	8
9	(E)ZONE 3 - AISLE 140, RM 237 PROCESS	N	UNK	20	1		B		1	20	UNK	N	(E)ZONE 5 - RM 144 WELD	10
11	(E)ZONE 4 - MIXING AREA, PAINT RM	N	UNK	20	1			C	1	20	UNK	N	(E)ZONE 5 - RM 144 WELD	12
13	(E)ZONE 3 - PREP AREA	N	UNK	20	1	A			1	20	UNK	N	(E)ZONE 6 - MACHINING/GRINDING	14
15	(E)SPARE	N	0.00	20	1		B		1	20	UNK	N	(E)ZONE 9 - RM 148 FURNACE RM	16
17	(E)ZONE 11 - RM 145	N	UNK	20	1			C	1	20	UNK	N	(E)EXISTING LOAD	18
19	(E)ZONE 13 - RM 146	N	UNK	20	1	A			1	20	UNK	N	(E)NIGHT LIGHT	20
21	(E)NIGHT LIGHT	N	UNK	20	1		B		1	20	UNK	N	(E)EMERGENCY LIGHTS	22
23	(E)SPARE	N	0.00	20	1			C	1	20	UNK	N	(E)ZONE 10 - SHIPPING	24
25	(E)EMERGENCY LIGHTS	N	UNK	20	1	A			1	20	UNK	N	(E)ZONE 9 - FURNACE	26
27		N	0.00				B		1	20	UNK	N	(E)EXISTING LOAD	28
29	SPARE	N	0.00	20	3			C			3.98	C		30
31		N	0.00			A			3	25	3.33	C	(E)PANEL LP1-(2) 208V	32
33		N	0.00				B				3.15	C		34
35	SPARE	N	0.00	20	3			C	1	--	0.00	N	(E)SPACE	36
37		N	0.00			A			1	--	0.00	N	(E)SPACE	38
39	(E)SPACE	N	0.00	--	1		B		1	--	0.00	N	(E)SPACE	40
41	(E)SPACE	N	0.00	--	1			C	1	--	0.00	N	(E)SPACE	42

LOAD REMOVED VIA DEMOLITION = 23.3 KVA 28.0 AMPS
TOTAL NET LOAD ADDED = -23.3 KVA -28.0 AMPS

LOAD TYPES: C = CONTINUOUS, R = RECEPTACLE, M = MOTOR, N = NON-CONTINUOUS

GENERAL NOTES

G1. ALL WORK MUST BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXIST.", OR "(E)".

G2. VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.

BY	DESCRIPTION	DATE	APPR
◁	ADDENDUM 2	18 JUNE 2026	

NAVFAC

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 057761 WILLIAM E. MARCINIAK
6/18/2026

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FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES	GB	DRW	GB	CHK	WM

<<PM/DM>> NICHOLAS A. HALL
BRANCH MANAGER PATRICK FAULKNER
CHIEF ENG/ARCH
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
FACILITIES ENGINEERING & ACQUISITIONS DIVISION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
MCAS CHERRY POINT - CHERRY POINT, NC
MCAS CHERRY POINT, NC
CHERRY POINT, NC
REPLACE CHILLERS & COOLING TOWER
BUILDING 4225
SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 7440851
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12939378
SHEET 34 OF 39
E-601

FILE NAME: 231.007 E-601.DWG
OUR REF: 231.007
PLOT DATE: 6/18/2026 3:23:14 PM