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Bradenton, FL 34205  
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## Solicitation Addendum

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Addendum No.:	1
Solicitation No.:	23-R081989DJ
Solicitation Title:	Manatee County Sheriff's Office Operations Center Chiller Plant Replacement
Addendum Date:	July 27, 2023
Procurement Contact:	Dave Janney Procurement Agent III

**IFBC 23-R081989DJ is amended as set forth herein. Responses to questions posed by prospective bidders are provided below. This Addendum is hereby incorporated in and made a part of IFBC 23-R081989DJ.**

**The deadline to submit all inquiries concerning interpretation, clarification or additional information pertaining to this IFBC was July 21, 2023.**

### **ADD:**

#### **APPENDIX K, ELECTRONIC BID PRICING FORM**

Add Appendix K, Electronic Bid Pricing Form, available for download as a separate attachment.

### **REPLACE:**

#### **SECTION C, BID ATTACHMENTS, BID ATTACHMENT 2, PLANS**

Replace Sheet M4.0 in its entirety.

### **REPLACE:**

#### **SECTION C, BID ATTACHMENTS, BID ATTACHMENT 2, PLANS**

Replace Sheet E4.0 in its entirety.

## **QUESTIONS AND RESPONSES:**

**Q1. Are you planning to procure this project through OMNIA?**

R1. This is at the discretion of the County.

**Q2. Is there is a construction cost estimate or budget associated with the Manatee County Sheriff's Office Operations Center Chiller Plant Replacement Project.**

R2. The engineer's opinion of costs is \$370,185.20.

**Q3. Can we propose Daikin chillers instead of Trane?**

R3. Trane and York are the only manufactures that will be accepted.

**Q4. Who are the other bidders/walkthrough attendees on this project?**

R4. See attached Non-Mandatory Site Visit Sign In Sheet.

**Q5. Will the sign in sheet from the site visit be posted online?**

R5. See response to Q4.

**Q6. Will RFI's be answered through the RFI period or will they all be answered at the same time?**

R6. It is the intent of the County to post one (1) addendum per Section A, Information for Bidders, A.51, Solicitation Schedule.

**Q7. How will answers be distributed?**

R7. See Section A, Information for Bidders, A.07, Addenda, and A.10, Question and Clarification Period. The "final" addendum will be posted when all relevant questions have been addressed.

**Q8. Will the 300-day project schedule be extended due to increased lead times from the chiller manufacturer?**

R8. Refer to Section D, Sample Construction Agreement with General Conditions of the Construction Agreement and Agreement Exhibits, General Conditions of Construction Agreement, Article V, Changes in Work, 5.12, Changes to Contract Time.

**Q9. Will alternate chiller manufacturers be considered if they meet the project specifications?**

R9. See response to Q3.

**Q10. Regarding detail 1 on page M4.0 note 2, I am not understanding what is required per this note. Do you want a rolling step to access both control panels because of the height of the control panels from the ground?**

R10. The rolling step is not required if there is an access panel for controls that is within the standing height range of a person (top of panel is 5').

**Q11. Regarding detail 1 on page M4.0 "verification of structural capacity and design with MC structural engineer". This is an existing pad. What is required to be included in our proposal? Do you want a structural engineer hired to look at the existing pad? Is there a new chiller pad required?**

R11. If the units are being replaced in kind no variations are required. If there are major changes in the size, then a structural analysis would need to be conducted by a structural engineer hired by the contractor.

**Q12. Regarding detail 7 on page M4.0, The pumps are currently set on the concrete. Do you want new 4" pads poured on top of the existing pads? Are the new pumps to be bolted down to the existing (or new) pads?**

R12. Existing pads can be demolished and new pads can be installed. See housekeeping pad detail sheet E6.0 detail 8.

**Q13. Regarding detail 1 on page M4.0 "see detail M3.0 for piping connection", I did not locate a detail 2 on page M3.0?**

R13. There is no detail on M3.0- the note is a typo. See attached M4.0 Mechanical Details – REV 1.

**Q14. Are we to provided Testing & Balancing? If so which companies are preferred?**

R14. Testing, Balancing, and Commissioning are required per FBC and Florida Energy Code. Simpson Environmental Services (352-583-3371) and Ecotab (941-822-9636) are currently on a blanket PO with the County,

**Q15. Are we to provide water treatment? If so what companies are preferred?**

R15. Water treatment is required. Kibler Chemical Corp (407-957-2225) is currently on a blanket PO with the County.

**Q16. Are Trane and York the only two manufactures permitted? Can Carrier, Daikin or Dunham Bush be quoted?**

R16. See response to Q3.

**Q17. Regarding detail 8 on page E6.0, which new pad required?**

R17. Pads are for housekeeping purposes - on mechanical equipment (like pumps).

**Q18. The existing pumps have soft starters on them. Am I correct that Nema rated VFD's are replacing them? Is there a VFD schedule?**

R18. The new pumps are to have new VFDs on them - the VFD drives are specified on sheet E6.0 note 12 on the specifications.

**Q19. Are the existing {qty-2} Motor Operated Automated Isolation Valves to be reused and reinstalled on the new chillers or are new Automated Isolation Valves to be installed?**

R19. See sequence of operation sheet M3.0. The controls are to be replaced as shown on the sequence. Operation to be verified and replaced as needed.

**Q20. Is this project scheduled for daytime work one chiller at a time or will overtime work be required?**

R20. This is scheduled for daytime work for one chiller at a time. A similar project has been completed in a two-week period with one chiller at a time.

**Q21. On E4.0 demo note 2 remove existing chiller wiring from breaker but maintain existing conduit. Existing chiller breakers are 400amp 3pole breakers. The existing conduit is one 2" conduit per chiller. Not sure how this worked because even if you install parallel feeds in one conduit this conduit is too small.**

**On E4.0 proposed note 2 is to reuse existing conduit but on E5.0 one line diagram shows F400 which is parallel feeds that's 2 – 2 1/2" conduits to each chiller.**

**Do we cut slab and install correct conduits to each chiller or somehow go over head with the conduits?**

R21. Follow the chilled water lines to the building with support and go from the wall to the existing distribution panel for the power. The lines may be surface mounted and go overhead. The Successful Bidder to provide conduits for installation of chillers. See attached E4.0 Power and Systems Plan – REV 1.

**NOTE:**

Deleted items will be ~~struck through~~, added or modified items will be underlined. All other terms and conditions remain as stated in the IFBC.

**INSTRUCTIONS:**

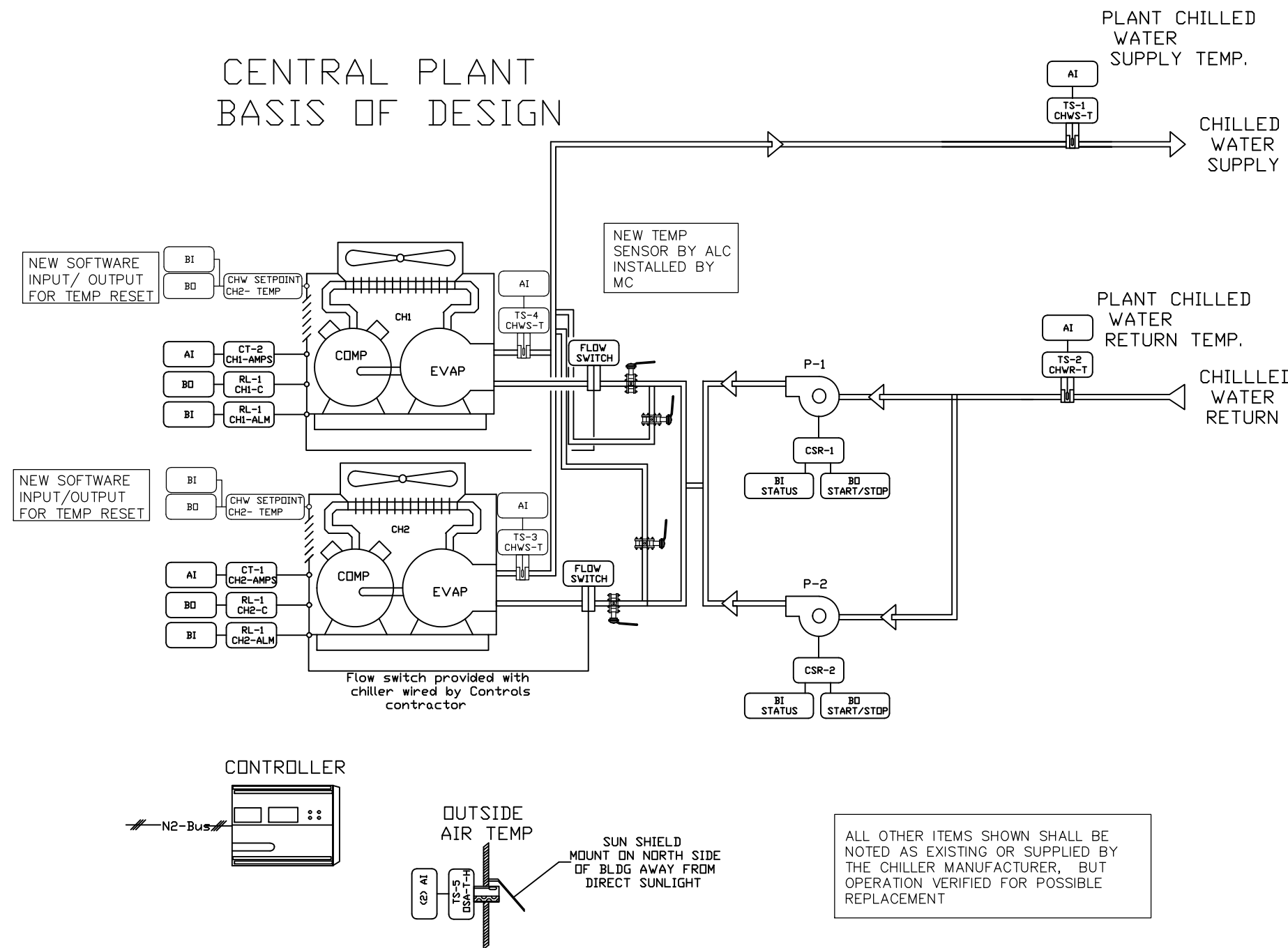
Receipt of this Addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the response being deemed non-responsive.

**END OF ADDENDUM**

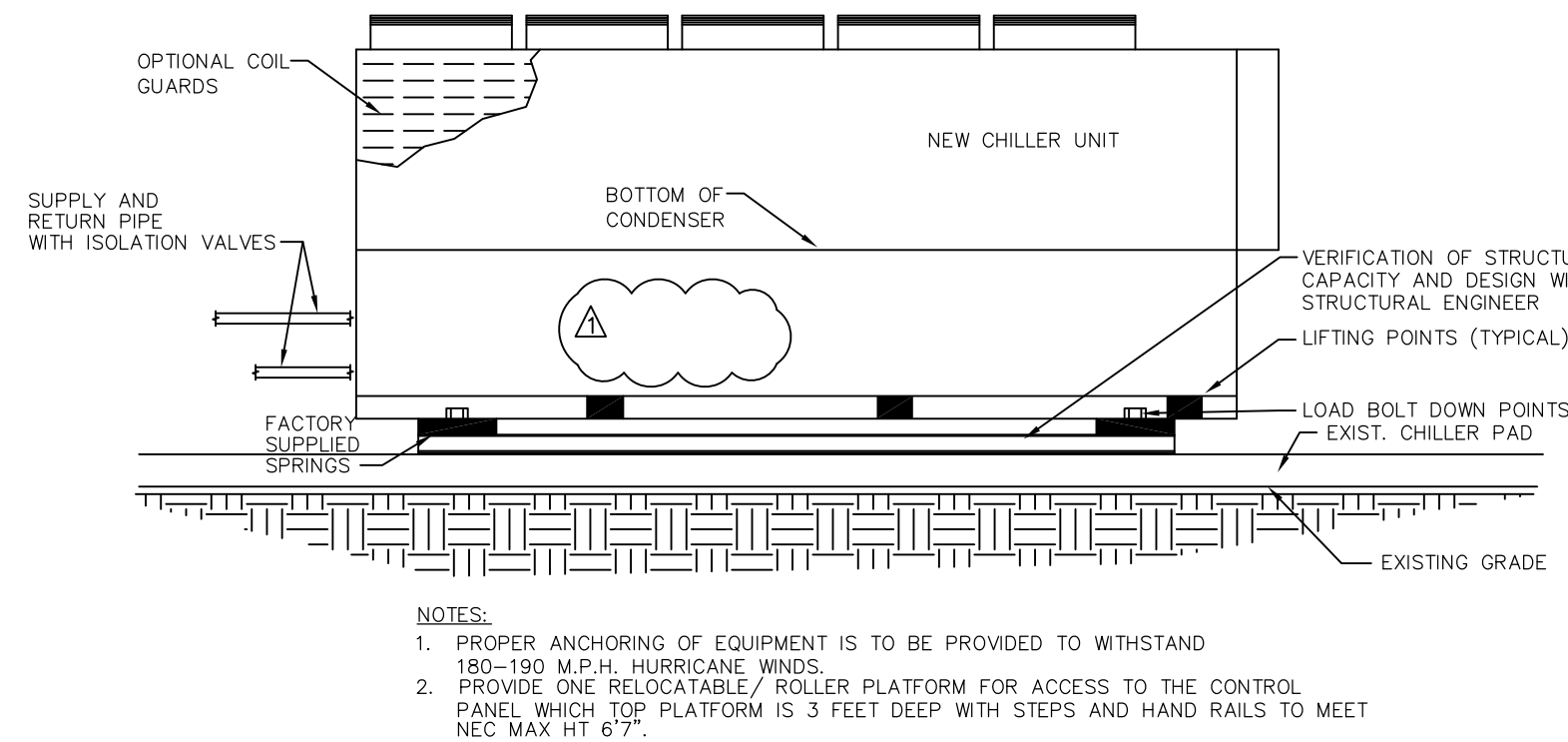
**AUTHORIZED FOR RELEASE**

Addendum No. 1  
Solicitation No. 23-R081989DJ  
Manatee County Sheriff's Office Operations Center  
Chiller Replacement

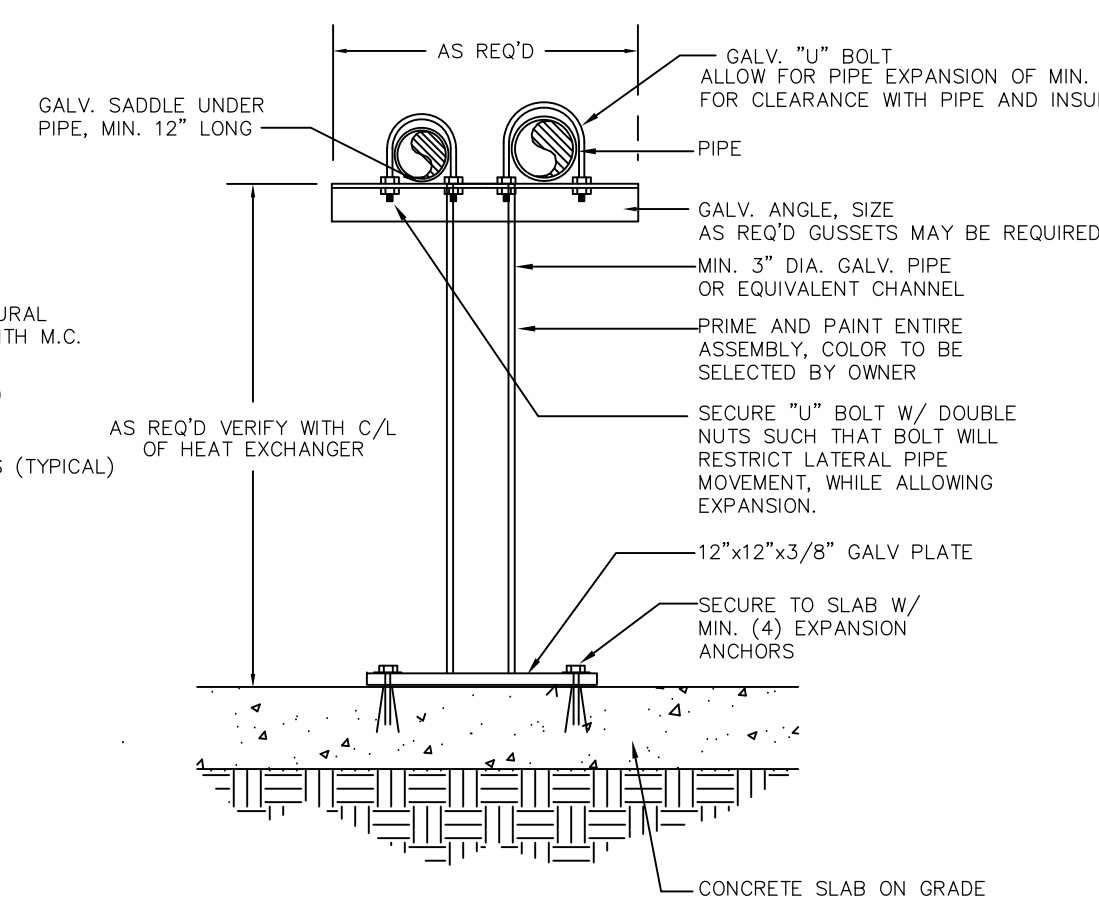
CENTRAL PLANT  
BASIS OF DESIGN



4 CHILLER PLANT CONTROL DIAGRAM  
M4.0 NOT TO SCALE



1 CHILLER DETAIL  
M4.0 NOT TO SCALE



3 PIPE SUPPORT DETAIL  
M4.0 NOT TO SCALE  
COORDINATE DETAIL WITH M.C. STRUCTURAL ENGINEER

ENERGY MANAGEMENT SYSTEM SUMMARY:

THE BUILDING ENERGY MANAGEMENT SYSTEM (EMS) IS A NETWORK OF INTEROPERABLE, STAND-ALONE DIGITAL CONTROLLERS COMMUNICATING ON AN OPEN PROTOCOL COMMUNICATION NETWORK TO A HOST COMPUTER WITHIN THE FACILITY AND CAPABLE OF COMMUNICATING VIA THE INTERNET TO A HOST COMPUTER IN A REMOTE LOCATION. A MODEM IS PROVIDED FOR REMOTE ACCESS TO THE NETWORK AND FOR PAGING THE OPERATORS WHEN AN ALARM OCCURS.

THE CONTROLS CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SOFTWARE, GRAPHICS AND SERVICE NECESSARY FOR THE REPLACEMENT OF TWO CHILLERS AND TWO PUMPS COMPLETE AND OPERATING WITH EMS, UTILIZING NEW OR REPLACED EXISTING DIRECT DIGITAL CONTROLS AS SHOWN ON THE DRAWINGS AND AS DESCRIBED HEREIN. DRAWINGS ARE DIAGRAMMATIC ONLY. THE REPROGRAMMED EXISTING EMS SHALL BE CAPABLE OF TOTAL INTEGRATION OF THE FACILITY INFRASTRUCTURE SYSTEMS WITH USER ACCESS TO ALL SYSTEM DATA EITHER LOCALLY OVER A SECURE INTRANET WITHIN THE BUILDING OR BY REMOTE ACCESS BY A STANDARD WEB BROWSER OVER THE INTERNET.

THE THE EXISTING EMS CONTROLS BY INCLUDE: (2) REPLACEMENT AIR COOLED CHILLERS, (2) REPLACEMENT CHILLED WATER PUMPS.

THE LOCATION OF THE DDC MASTER CONTROL PANEL AND FRONT END COMPUTER IS IN THE BUILDING.

SEQUENCE OF OPERATIONS:

CHILLER PLANT:

UPON PROOF OF ANY AIR HANDLER FAN RUNNING AND OUTSIDE AIR TEMPERATURE ABOVE COOLING LOCKOUT (55 DEGREES F, FIELD ADJUSTABLE), THE CHILLER PLANT SHALL BE ENABLED TO OPERATE.

THE CHILLERS SHALL BE ENABLED/DISABLED BASED ON A LEAD/LAG PROGRAM EXECUTED THROUGH THE ENERGY MANAGEMENT SYSTEM. SET POINTS ON THE SYSTEM CHILLED WATER SUPPLY AND RETURN TEMPERATURE SHALL STAGE ON / OFF THE CHILLERS.

THE INLET CHILLED WATER VALVE SHALL BE OPEN PRIOR TO THE PUMP OPERATING AND CLOSED AFTER THE VALVE IS INTERLOCKED WITH THE CHILLER OPERATION SEQUENCE.

UPON PROOF OF PUMP/CHILLER FLOW STATUS, THE CHILLER SHALL BE ENABLED. THE CHILLER SHALL OPERATE UNDER ITS OWN FACTORY-MOUNTED CONTROLS TO PROVIDE 44 DEG F LEAVING WATER TEMPERATURE (ADJ.) ON CHILLER SHUTDOWN, THE ASSOCIATED CHILLED WATER PUMP SHALL CONTINUE TO OPERATE FOR 5 MINUTES BEFORE SHUTTING DOWN. THE CHILLER SETPOINTS SHALL BE ADJUSTABLE FROM THE ALC.

DURING UNOCCUPIED TIMES, THE CHILLERS AND PUMPS SHALL REMAIN OFF. IF THE CHILLED WATER SYSTEM IS ENABLED IT SHOULD OPERATE FOR A MINIMUM OF 30 MINUTES.

THE FACTORY PROVIDED CHILLER CONTROLLER WILL LOAD/UNLOAD OR STAGE COMPRESSORS AS NEEDED TO MAINTAIN 44°F (ADJUSTABLE) CHILLED WATER SUPPLY TEMPERATURE. CHILLERS SHALL BE STAGED USING THE FOLLOWING LEAD-LAG SEQUENCE:

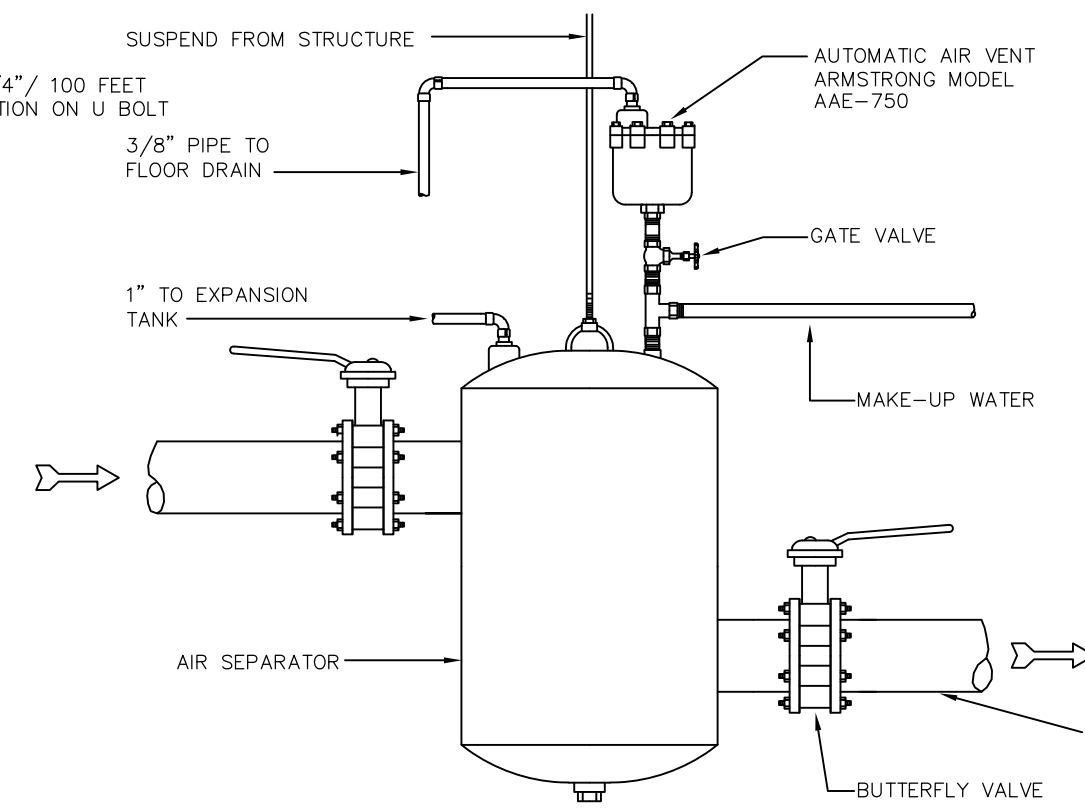
OPTION UPON START-UP, THE LEAD CHILLER SHALL OPERATE FOR AT LEAST 15 MINUTES PRIOR TO THE LAG CHILLER STARTING. THE DIRECT DIGITAL CONTROLLER SHALL MONITOR THE COMMON AND UNIT CHILLED WATER SUPPLY TEMPERATURE. SHOULD THE TEMPERATURE EXCEED THE LAG CHILLER START SET POINT OF 47°F (ADJUSTABLE) CONTINUOUSLY FOR A PERIOD OF 15 MINUTES AND THE LEAD CHILLER IS LOADED 100% THE LAG CHILLER SHALL BE CALLED TO OPERATE.

THE DDC CONTROLLER WILL CONTINUOUSLY MEASURE THE LOAD ON EACH CHILLER, ONCE THE TOTAL LOAD IN THE BUILDING DECREASES AND STAYS BELOW 45 TONS FOR A PERIOD OF 30 MINUTES (ADJUSTABLE), CHILLER CH-2 SHALL BE SHUT-DOWN.

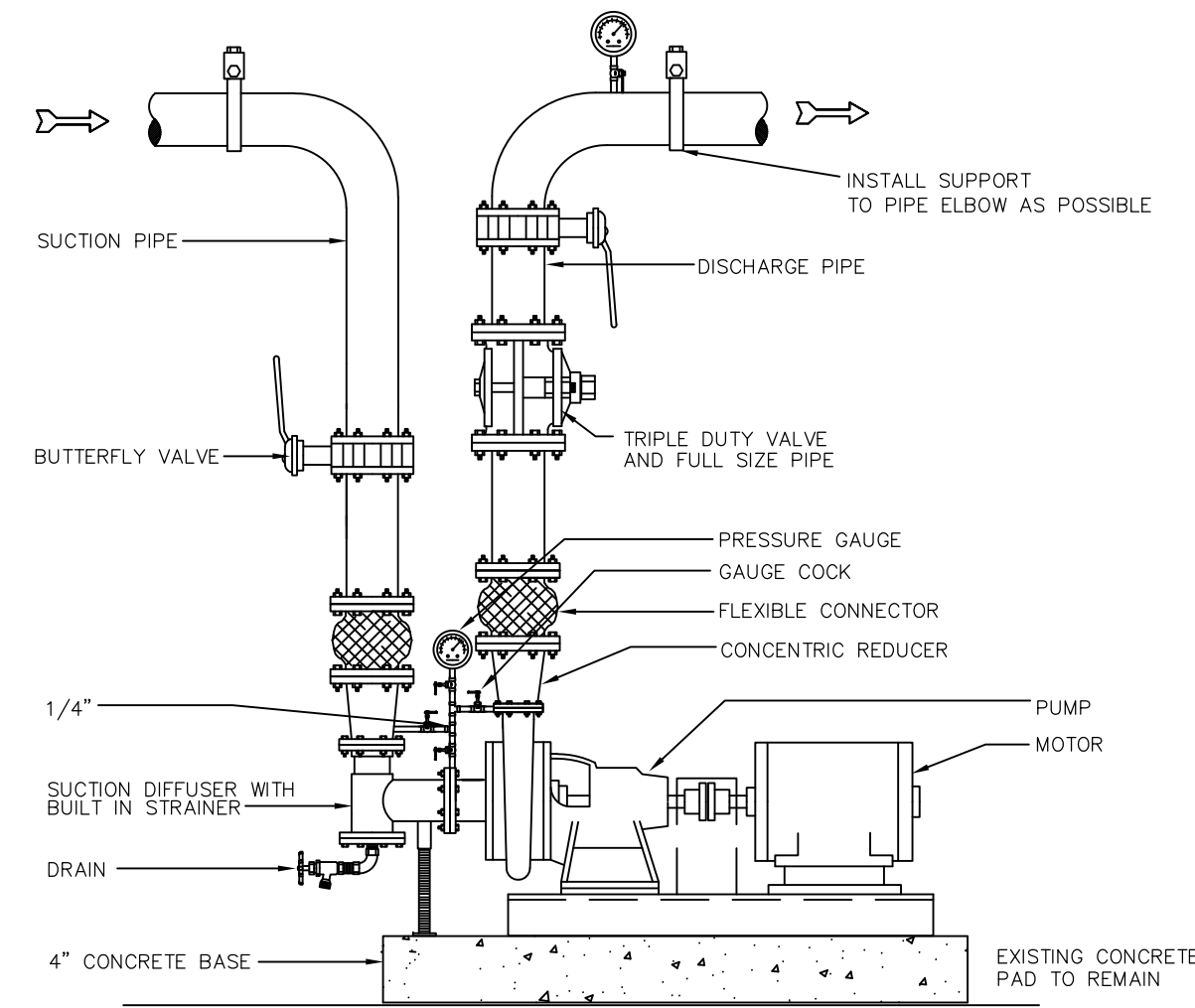
THE CHILLERS SHALL ALTERNATE THE LEAD/LAG SEQUENCE WEEKLY OR AS OTHERWISE PROGRAMMED BY THE OWNER'S BUILDING ENGINEER.

5 CHILLER PLANT SEQUENCE REVISED

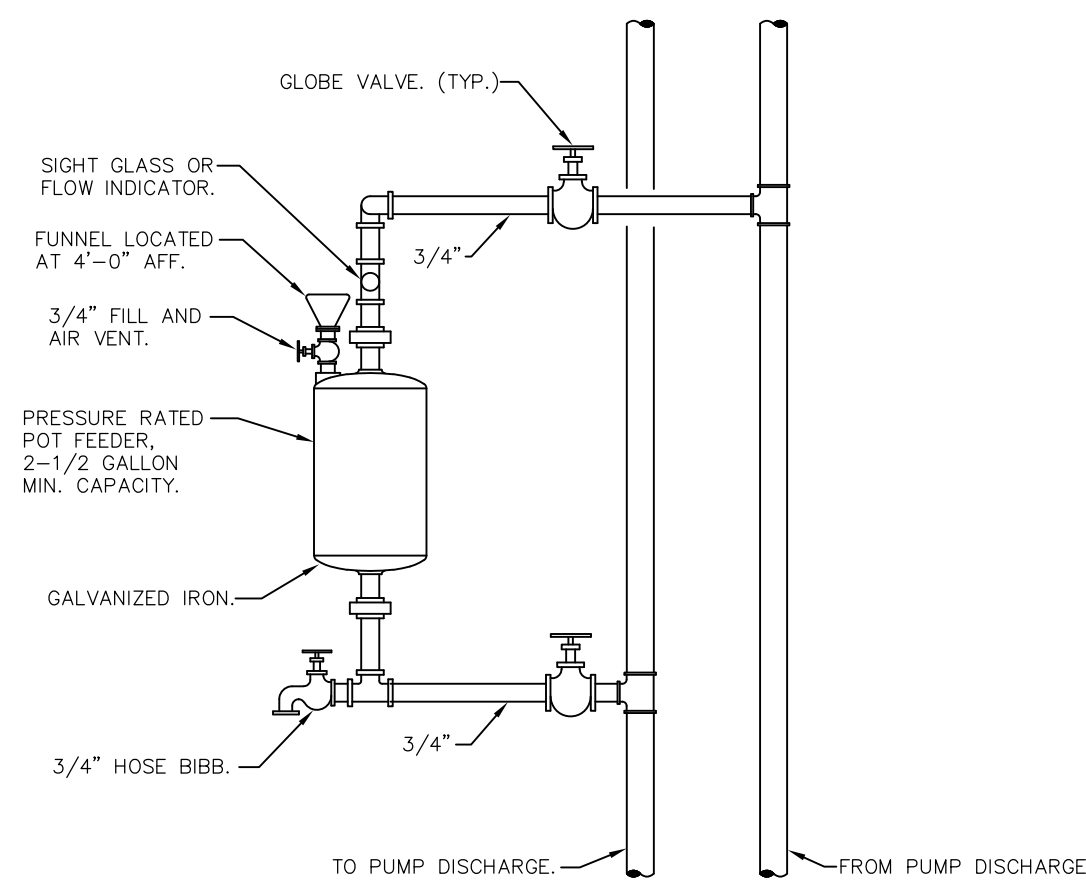
M4.0 NOT TO SCALE



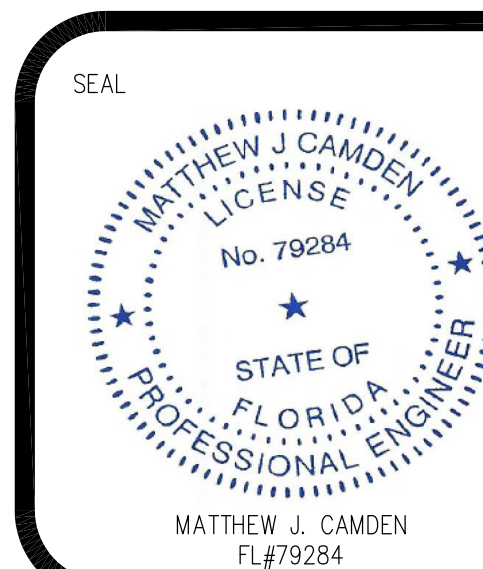
6 AIR SEPERATOR DETAIL  
M4.0 NOT TO SCALE



7 HOT WATER END SUCTION PUMP DETAIL  
M4.0 NOT TO SCALE



2 CHEMICAL SHOT FEEDER DETAIL  
M4.0 NOT TO SCALE



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MATTHEW J. CAMDEN, P.E. (FL#79284) ON 07-26-2023 USING AN SHA AUTHENTICATION CODE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

ATP ENGINEERING SOUTH BRADENTON, FLORIDA ENGR. BUSINESS #8908 941-751-6485	SEAL MATTHEW J. CAMDEN FL#79284
DATE 07/26/2023	REVISIONS
OWNER'S REVISIONS	

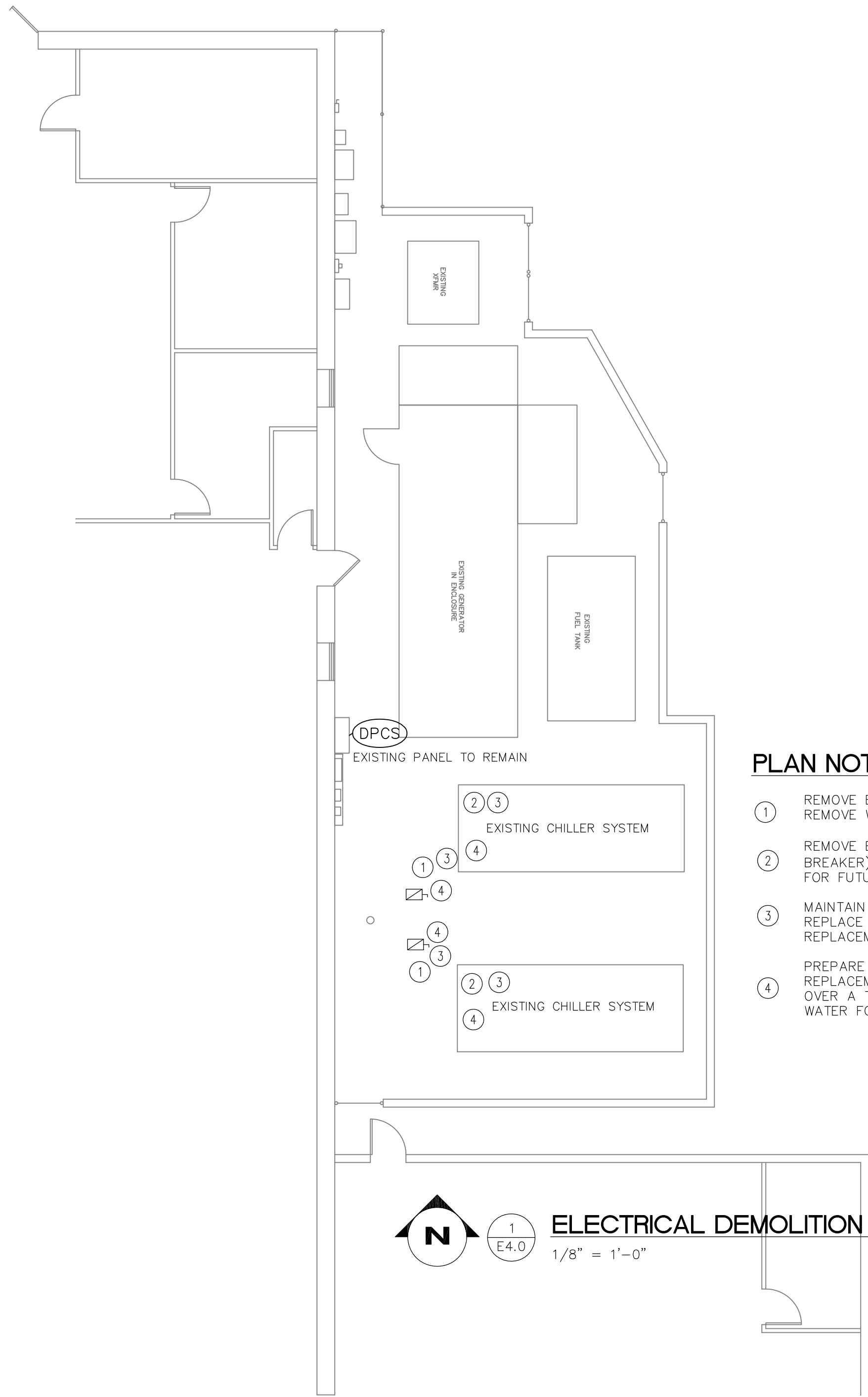
MSO DESOTO SHERIFF'S OFFICE  
CHILLER PLANT  
600 US 301  
BRADENTON, FLORIDA 34211

MECHANICAL DETAIL

FILE: DESOTO CENT. CHILL
JOB NO.: WA#16-2023.08
DATE: 05-02-2023
PLOT SIZE: 1:1
DRAWN BY: AZ
CHECKED BY: MC
SHEET No.:

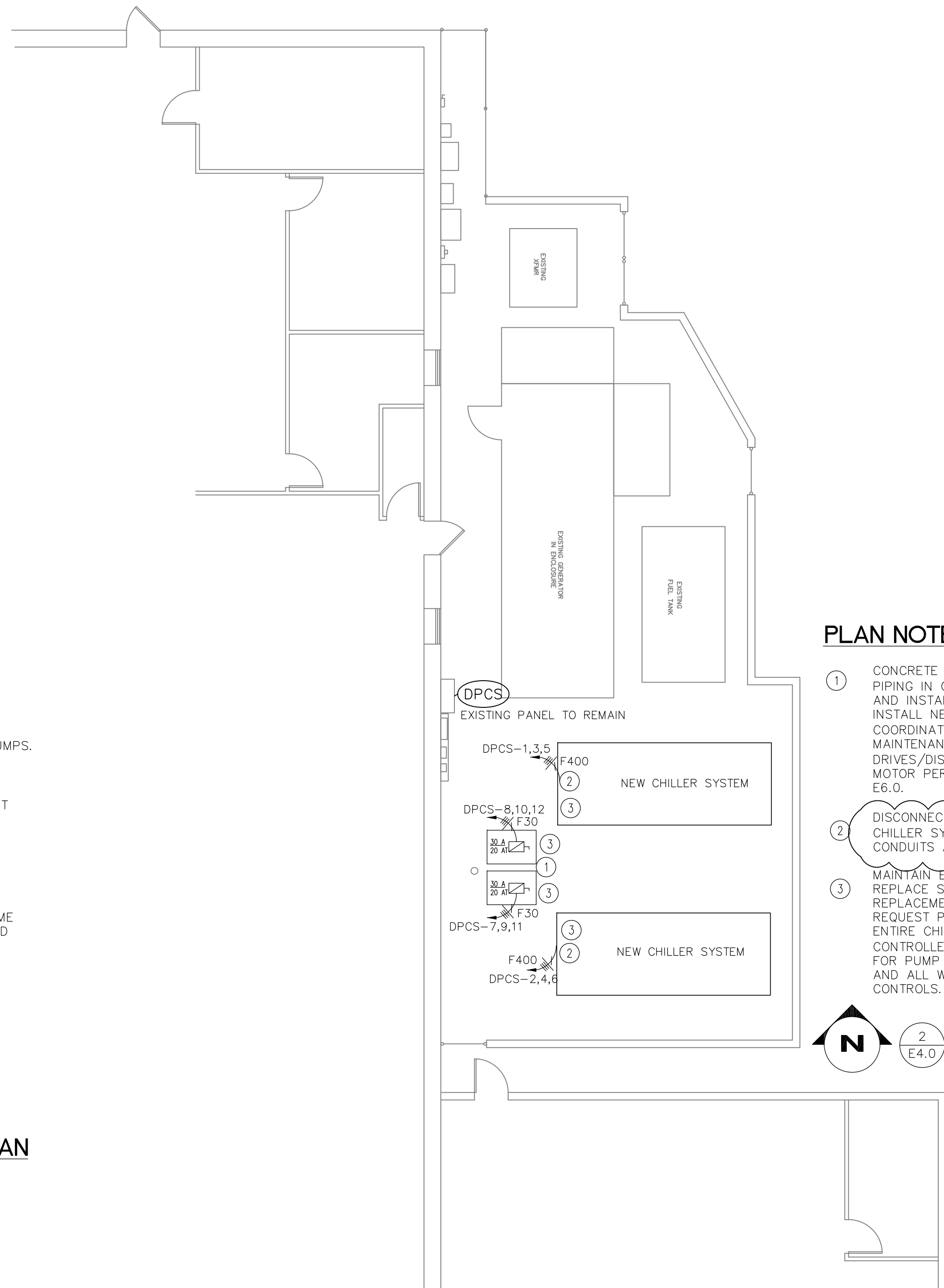
M4.0





PLAN NOTES:

- 1 REMOVE EXISTING DISCONNECT AND WIRING TO THE PUMPS. REMOVE WIRING BACK TO THE BREAKER.
- 2 REMOVE EXISTING WIRING FROM THE BREAKER(CHILLER BREAKER) TO THE CHILLER MAINTAIN EXISTING CONDUIT FOR FUTURE PULL.
- 3 MAINTAIN EXISTING CONTROLS WIRING AND EQUIPMENT. REPLACE SENSORS AND WIRING AS REQUIRED FOR REPLACEMENT OF THE CHILLER.
- 4 PREPARE LOCATION FOR FUTURE CHILLERS. SEQUENCE REPLACEMENT - REPLACE A SINGLE CHILLER AT A TIME OVER A TWO WEEKEND TIME PERIOD TO MAINTAIN COLD WATER FOR THE FACILITY.



PLAN NOTES:

- 1 CONCRETE PADS FOR PUMPS AND UNISTRUT/SCHEDULE 80 PIPING IN CONCRETE TO HANG VFD/DISCONNECT. PROVIDE AND INSTALL NEW WIRING. RE-USE EXISTING CONDUITS, INSTALL NEW CONDUIT AND WIRING TO VFD AS REQUIRED. COORDINATE WITH OWNER'S REPRESENTATIVE AND MAINTENANCE PERSONNEL FOR LOCATION OF VFD DRIVES/DISCONNECTS. UNITS SHALL BE WITHIN 25' OF MOTOR PER NEC REQUIREMENTS. SEE DETAIL 10 ON SHEET E6.0.
- 2 DISCONNECTS/BREAKER (OCPD) TO BE INTEGRATED INTO CHILLER SYSTEM. PROVIDE/INSTALL NEW WIRING. USE NEW CONDUITS AND PULL NEW WIRING AS REQUIRED.
- 3 MAINTAIN EXISTING CONTROLS WIRING AND EQUIPMENT. REPLACE SENSORS AND WIRING AS REQUIRED FOR REPLACEMENT OF THE CHILLERS AND PUMPS. OWNER MAY REQUEST PRICING FOR NEW CONTROLS COMPLETE FOR ENTIRE CHILLER SYSTEM. PROVIDE AND INSTALL VFD DRIVE CONTROLLERS (10HP/480V-3P- NEMA 3R) AS REQUIRED FOR PUMP SYSTEMS. PROVIDE ETHERNET CONNECTIONS AND ALL WIRING AS REQUIRED FOR REPLACEMENT OF CONTROLS.

ELECTRICAL PROPOSED POWER AND SYSTEMS PLAN  
1/8" = 1'-0"

SEAL

MATTHEW J. CAMDEN  
LICENSE  
No. 79284  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

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ATP ENGINEERING SOUTH  
BRADENTON, FLORIDA  
ENGR. BUSINESS #8908  
941-751-6485

SEAL

MATTHEW J. CAMDEN  
FL#79284

REV#	DESCRIPTION	DATE
1	OWNER'S REVISIONS	07/26/2023

MSO DESOTO SHERIFF'S OFFICE  
CHILLER PLANT  
600 US 301  
BRADENTON, FLORIDA 34211

ELECTRICAL POWER  
AND SYSTEMS

DRAWING TITLE:

FILE: DESOTO CENT. CHILL  
JOB NO.: WA#16-2023.08  
DATE: 05-02-2023  
PLOT SIZE: 1:1  
DRAWN BY: HG  
CHECKED BY: MC  
SHEET No.:  
E4.0

**ATTENDANCE RECORD**  
**NON-MANDATORY SITE VISIT**

**Title:** IFBC No. 23-R081989DJ, Manatee County Sheriff's Office Operations Center Chiller Plant Replacement

**Location:** Manatee County Sheriff's Office Operations Center  
600 Highway 301 Boulevard West Bradenton, FL 34205.

**Date / Time:** June 27, 2023, at 9:00 am

Attendee Name	Company	Phone and Email Address
Dave Janney	MCG Procurement	941-749-3056, Dave.Janney@MyManatee.org
Mark Castellano	AMSCO	941-475-3715 Mcastellano@amsco-AC.com
Ed Gonzalez	Aqua Plumbing & Air	941-780-0327 EGONZALEZ@AquaPlumbing.com
Thomas Crutan	Aqua Plumbing & Air	941 915 1044 TCrutan@AquaPlumbing.com
Matt Stanton	Aqua Plumbing & Air	941 806 7796 mstanton@AquaPlumbing.com
MARK PETRILLA	MCPM	737-3217 MARK.PETRILLA@MYMANATEE.ORG
CHAD SNYDER	CARRIER	813-310-3452 chad.snyder@carrier.com
Rodney Robinson	ICM	813-538-0084 R.Robinson@ICMech.com
RICARDO BISSESSAR	KEYRON & PARTNERS	352-504-8057
Cesar Rivera	Keyron & Partners	813 326 9582 Cesar.Rivera@KeyronandPartners.com
ZANDY GEMMER	PAGE MECHANICAL	239-302-9332 Zandy.Gemmer@PAGEMECH.COM

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[illegible]