\\tet-file1\Users\sophia.nyberg_TETER\Documents\12358-A-WHCC COALINGA CHILLER REPLACEMENT_sophia.nyberg.rvt

WEST HILLS COLLEGE COALINGA

CHILLER REPLACEMENT

DSA APPL.: 02-120711

FILE NO.: 10-C1

ABBREVIATIONS

ABBREVIATIONS: WHEN USED IN THESE DOCUMENTS SHALL CONFORM TO THE FOLLOWING LIST UNLESS OTHERWISE NOTED. DRAWINGS OF OTHER DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL) MAY CONTAIN SPECIFIC ABBREVIATIONS, REFERENCES, AND LEGENDS WITH INTERPRETATION INTENDED ONLY FOR THOSE DISCIPLINES.

&	AND
L	ANGLE
@	AT
℄	CENTERLINE
∅	DIAMETER OR ROUND
⊥	PERPENDICULAR
#	POUND OR NUMBER
(E)	EXISTING
(N)	NEW
ABV.	ABOVE
A/C	AIR CONDITIONING
ACP	ASPHALT CONCRETE PAVING
ACST.	ACOUSTICAL
A.C.T.	ACOUSTIC CEILING TILE
A.B.	ANCHOR BOLT
ADA	AMERICANS WITH DISABILITIES ACT
ADAAG	ADA ACCESSIBLE GUIDELINES
ADDL.	ADDITIONAL
ADJ.	ADJUSTABLE
ADJC.	ADJACENT
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AGG.	AGGREGATE
ALT.	ALTERNATE
ALUM.	ALUMINUM
ANOD.	ANODIZED
A.P.C.	ACOUSTIC PANEL CEILING
APPROX.	APPROXIMATE
ARCH.	ARCHITECT(URAL)
AV	AUDIO VISUAL
BD.	BOARD
BEL.	BELOW
B.E.N	BOUNDARY EDGE NAILING
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
BRG.	BEARING
BTWN.	BETWEEN
B.U.R.	BUILT-UP ROOF(ING)
C&G	CURB AND GUTTER
CAB.	CABINET
C.B.	CARRIAGE BOLT
CEM.	CEMENT
CER.	CERAMIC
C.F.	CUBIC FOOT
C.I.	CAST IRON
C.J.	CONSTRUCTION JOINT
CL.	CENTER LINE
C.L.F.	CHAIN LINK FENCE
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR
CL.RM.	CLASS ROOM
CMU	CONCRETE MASONRY UNIT
CTR.	COUNTER
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CPT.	CARPET
CRC	COLD ROLLED CHANNEL
CTR.	CENTER
CTSK	COUNTERSUNK
C.Y.	CUBIC YARD
D.A.	DISABLED ACCESS
DBL.	DOUBLE
DEMO	DEMOLISH/ DEMOLITION
D.F.	DRINKING FOUNTAIN OR DOUGLAS FIR
DET.	DETAIL
DIAG.	DIAGONAL
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
DP.	DEEP
DS	DOWN SPOUT
DWG.(S)	DRAWING
DWR.	DRAWER
E	EAST
EA.	EACH
E.F.	EXHAUST FAN
EGR.	ENGINEER
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRIC(AL)
ELEV.	ELEVATOR
EMB.	EMBEDMENT
EMER.	EMERGENCY
E.N.	EDGE NAILING
ENCL.	ENCLOSURE
EQ.	EQUAL
EQUIP.	EQUIPMENT
EVAP.	EVAPORATIVE
E.W.	EACH WAY
EXH.	EXHAUST
EXST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
FA	FIRE ALARM
F.B.	FLAT BAR
F.B.O.	FURNISHED BY OWNER/OTHERS
F.D.	FLOOR DRAIN
F.D.C.	FIRE DEPARTMENT CONNECTION
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FACTORY FINISH
F.F.R.	FINISH FLOOR
F.G.	FINISH GRADE
F.H.	FIRE HYDRANT
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FIN.	FINISH
FIXT.	FIXTURE
FLR.	FLOOR(ING)
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.	FACE OF
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
FRP	FIBERGLASS REINFORCED PANELING
F.S.	FIRE SPRINKLER(S)
F.S.H.	FIRE SPRINKLER HEAD
FT.	FOOT/FEET
FURR.	FURRING
FUT.	FUTURE
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.C.	GENERAL CONTR.
GEN.	GENERAL
G.I.	GALVANIZED IRON
GL.	GLASS
GND.	GROUND
GR.	GRADE
GYP.	GYPSUM
H.B.	HOSE BIBB
HBD.	HARDBOARD
H.C.	HOLLOW CORE
HD.	HEAD
H.D.	HEAVY DUTY
HDR.	HEADER
HDW.	HARDWARE
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
H.M.D.	HOLLOW METAL DOOR
H.M.F.	HOLLOW METAL FRAME
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HWY	HIGH WAY
I.D.	INSIDE DIAMETER/ DIMENSION
INFO	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
KIT.	KITCHEN
K.O.	KNOCK OUT
K.O.P.	KNOCK OUT PANEL
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
LB(S)	POUND (POUNDS)
L.B.	LAG BOLT
L.F.	LINEAL FOOT
L.H.	LEFT HAND
LIB.	LIBRARY
LT.	LIGHT
LT.WT.	LIGHT WEIGHT
MACH.	MACHINE
MAINT.	MAINTENANCE
MAX.	MAXIMUM
M.B.	MACHINE BOLT
M.B.M.	METAL BUILDING MANUFACTURER
MECH.	MECHANICAL
MED.	MEDIUM
MEMB.	MEMBRANE
MET.	METAL
MFR.	MANUFACTURER
MH.	MANHOLE
MKR.	MARKER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD.	MOUNTED
MTG.	MEETING
MULL.	MULLION
N	NORTH
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.R.C.	NOISE REDUCTION COEFFICIENT
N.T.S.	NOT TO SCALE
OCC.	OCCUPANT LOAD
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER/ DIMENSION
OFF.	OFFICE
OFCI	OWNER FURNISHED, CONTR. INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
O.F.R.D.	OVER FLOW ROOF DRAIN
O.H.	OPPOSITE HAND
O.H.C.D.	OVER HEAD COILING DOOR
O.H.M.S.	OVAL HEAD MACH. SCREW
O.H.W.S.	OVAL HEAD WOOD SCREW
OPNG.	OPENING
OPP.	OPPOSITE
O/	OVER
ORIG.	ORIGINAL
OVHD	OVER HEAD
OWJ	OPEN WEB JOIST
P.B.N.	PLYWOOD BOUNDARY NAILING
P.E.N.	PLYWOOD EDGE NAILING
P.E.S.	PLYWOOD EDGE SCREWS
P.I.V.	POST INDICATOR VALVE
P.LAM.	PLASTIC LAMINATE
P.L.	PROPERTY LINE
PL.	PLATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
PR.	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT.	POINT
P.T.D.	PAPER TOWEL DISP.
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
PTN.	PARTITION
PVC	POLYVINYL CHLORIDE
R	RADIUS
R	THERMAL RESISTANCE
R.A.	RETURN AIR
R.D.	ROOF DRAIN
REFL.	REFLECTED
REFR.	REFRIGERATOR
REINF.	REINFORCED
REM.	REMOVE
REQD.	REQUIRED
RESIL.	RESILIENT
R.H.	RIGHT HAND
R.H.W.S.	ROUND HEAD WOOD SCREW
RM.	ROOM
R.O.	ROUGH OPENING
R.O.W.	RIGHT-OF-WAY
RWD.	REDWOOD
RWL	RAIN WATER LEADER
S	SOUTH
S.A.	SUPPLY AIR
S.C.	SOLID CORE
SCH.	SCHEDULE
S.D.	STORM DRAIN
SECT.	SECTION
SF	SQUARE FEET/FOOT
SHR.	SHOWER
SHTG.	SHEATHING
SIM.	SIMILAR
S.M.	SHEET METAL
S.O.G.	SLAB-ON-GRADE
SPEC(S).	SPECIFICATION(S)
SPKR.	SPEAKER
SQ.	SQUARE
S.S.	STAINLESS STEEL
STA.	STATION
STC	SOUND TRANSMISSION CLASS
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
S.W.	SIDE WALK
SYM.	SYMMETRICAL
T.C.	TOP OF CONCRETE
TEMP.	TEMPORARY
TMPD.	TEMPERED
T&G	TONGUE AND GROOVE
THD.	THREADED
THK.	THICK
T.I.	TENANT IMPROVEMENT
TK.BD.	TACK BOARD
T.O.S.	TOP OF STEEL
T.P.	TOP OF PAVEMENT
TS	TUBE STEEL
TEL.	TELEPHONE
TTB	TELEPHONE TERMINAL BACK BD.
TV	TELEVISION
TYP.	TYPICAL
U.G.	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
UR.	URINAL
VCT	VINYL COMPOSITION TILE
VERT.	VERTICAL
VTR	VENT TO ROOF
VWC	VINYL WALL COVERING
W	WEST OR WIDTHWIDE
W/	WITH
W.C.	WATER CLOSET
W.CH.	WHEEL CHAIR
WD.	WOOD
WDW.	WINDOW
WF	WIDE FLANGE
W.H.	WATER HEATER
W/O	WITHOUT
W.P.	WATERPROOF
W.S.	WOOD SCREW
WT.	WEIGHT
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER

CODES AND ORGANIZATIONS

CBC	CALIFORNIA BUILDING CODE
CEC	CALIFORNIA ELECTRICAL CODE
CFC	CALIFORNIA FIRE CODE
CMC	CALIFORNIA MECHANICAL CODE
CPC	CALIFORNIA PLUMBING CODE
DSA	DIVISION OF THE STATE ARCHITECT
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
NSF	NATIONAL SANITATION FOUNDATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NEC	NATIONAL ELECTRICAL CODE

GENERAL NOTES

1. A COPY TITLE 24 C.C.R. PARTS 1 AND 2 SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
2. CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD) AS REQUIRED IN SECTION 4-338, PART I, CAC, AND SHALL BE SUBMITTED TO, AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATION IR A-6.
3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF TITLE 24 SECTION 4-335, PART 1, AND APPROVED T & I SHEET.
4. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-335, PART I, AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RETEST MAY BE BACK CHARGED TO THE CONTRACTOR.
5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE CONCRETE PER TITLE 24 SECTION 4-331, PART I.
6. A CLASS 2 INSPECTOR REQUIRED FOR THIS PROJECT SHALL BE EMPLOYED BY OWNER AND APPROVED BY ARCHITECT, STRUCTURAL ENGINEER, AND DSA. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(c). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-342, PART I.
7. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-334, PART 1.
8. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM SSS-6) IN ACCORDANCE WITH TITLE 24 SECTION 4-336, PART I.
9. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-333(a) AND 4-341, PART I.
10. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-343, PART I.
11. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE SCHOOL BUILDING IN ACCORDANCE WITH TITLE 24 C.C.R. EFFECTIVE JULY 1, 2014 AND ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, C.C.R., A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATION DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
12. SUBSTITUTIONS AND REQUESTS FOR INFORMATION AFFECTING STRUCTURAL SAFETY, FIRE AND LIFE SAFETY OR ACCESS COMPLIANCE SHALL BE APPROVED BY DSA PRIOR TO FABRICATION OR USE.
13. ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA.
14. NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO THE DSA FOR APPROVAL.
15. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
16. CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING:
    - ARCHITECT OR ENGINEER OF RECORD
    - STRUCTURAL ENGINEER (WHEN APPLICABLE)
    - DELEGATED PROFESSIONAL ENGINEER
17. MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
18. THESE PLANS AND SPECIFICATIONS WILL COMPLY WITH CFC CHAPTER 33 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
19. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
20. DSA IS NOT SUBJECT TO ARBITRATION.
21. ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
22. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 23, CCR.
23. DEFFERED SUBMITTALS: NONE
24. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
    - LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
    - MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
    - ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
    - A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.
    - THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
    - PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

GENERAL

PROJECT ADDRESS:
300 W. CHERRY LN.
COALINGA, CA 93210

GOVERNING AGENCY: DSA - SACRAMENTO

PROJECT DESCRIPTION

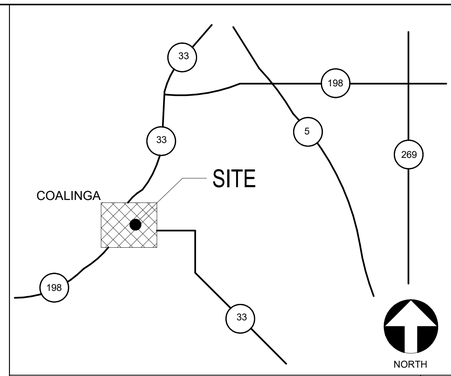
PROJECT INCLUDES THE FOLLOWING: REMOVE (E) COOLING TOWER AND WATER COOLED CHILLER FROM BLDG. B. INSTALL (N) AIR COOLED CHILLER IN (N) MECHANICAL YARD NORTH OF BLDG. C.

SITE DATA

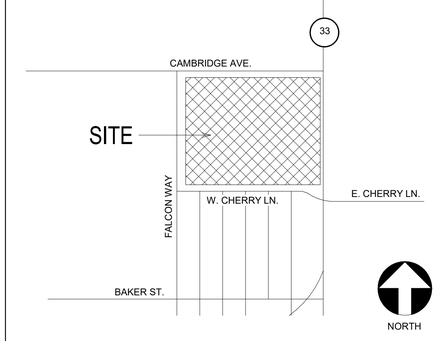
RISK CATEGORY:	II
S_S:	1.767
S_1:	0.586
S_{DS}:	1.414
SITE CLASSIFICATION:	D
SEISMIC DESIGN CATEGORY:	D
IMPORTANCE FACTOR:	1.0
BASIC WIND SPEED:	93 MPH
EXPOSURE CATEGORY:	C
ALLOWABLE SOIL BEARING	1500 PSF

GOVERNING CODES

2022 (CAC ONLY) CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R. EFFECTIVE JULY 1, 2014
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2019 CALIFORNIA FIRE CODE (CFC), PART 9, C.C.R. TITLE 24
2019 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24, PART 12
2019 CALIFORNIA ENERGY CODE (CAC), C.C.R. TITLE 24, PART 6
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), C.C.R. TITLE 24, PART 11
C.C.R., TITLE 19 PUBLIC SAFETY
NFPA 13-16 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (AS AMENDED)
NFPA 24-16 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (AS AMENDED)
NFPA 25-13CA (CALIFORNIA NFPA 25 EDITION) INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
NFPA 72-16 NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED)
UL 38-99 MANUALLY ACTUATED SIGNALING BOXES (AS AMENDED)
UL 268-09 SMOKE DETECTORS FOR FIRE ALARM SYSTEMS
UL 268A-09 SMOKE DETECTORS FOR DUCT APPLICATION (AS AMENDED)
UL 464-03 AUDIBLE SIGNAL APPLIANCES (AS AMENDED)
UL 521-99 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (AS AMENDED)
UL 1424 CABLES FOR POWER-LIMITED FIRE-ALARM CIRCUITS (2005 EDITION)
UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED (2004 EDITION)
AMERICANS WITH DISABILITIES ACT



AREA MAP N.T.S.



VICINITY MAP N.T.S.

WEST HILLS COMMUNITY COLLEGE DISTRICT
275 PHELPS AVENUE
COALINGA, CA 93210
(559) 934-2254

CONTACT: SHAUN BAILEY

EMAIL: shaunbailey@whccd.edu

PROJECT ARCHITECT
TETER, LLP

7535 N. PALM AVE., SUITE 201
FRESNO, CA 93711
(559) 437-0887

CONTACT: AYA SHITANISHI

E-MAIL: aya.shitanishi@teterae.com

MECHANICAL/PLUMBING ENGINEER
TETER, LLP

7535 N. PALM AVE., SUITE 201
FRESNO, CA 93711
(559) 437-0887

CONTACT: STEVE JONES

E-MAIL: steve.jones@teterae.com

ELECTRICAL ENGINEER
TETER, LLP

7535 N. PALM AVE., SUITE 201
FRESNO, CA 93711
(559) 437-0887

CONTACT: BRYAN GLASS

E-MAIL: bryan.glass@teterae.com

PROJECT DIRECTORY

SHEET INDEX

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS.

APPLICATION NO:. 02-120711 FILE NO.: 10-C1

THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-344" OF TITLE 24, PART I.

I CERTIFY THAT:

☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX
☐ THIS DRAWING OR PAGE

IS/ARE IN GENERAL CONFORMANCE AND HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

2/24/2023
ARCHITECT'S SIGNATURE — DATE
AYA SHITANISHI
ARCHITECT/ PARTNER
TETER, LLP

C-34089 — 1/31/2025
LICENSE NUMBER — EXPIRATION DATE

ARCHITECT'S STATEMENT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120711 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 03/16/2023

MARK	DATE	DESCRIPTION
A	3/1/2023	DSA BACKCHECK

TETER, LLP
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

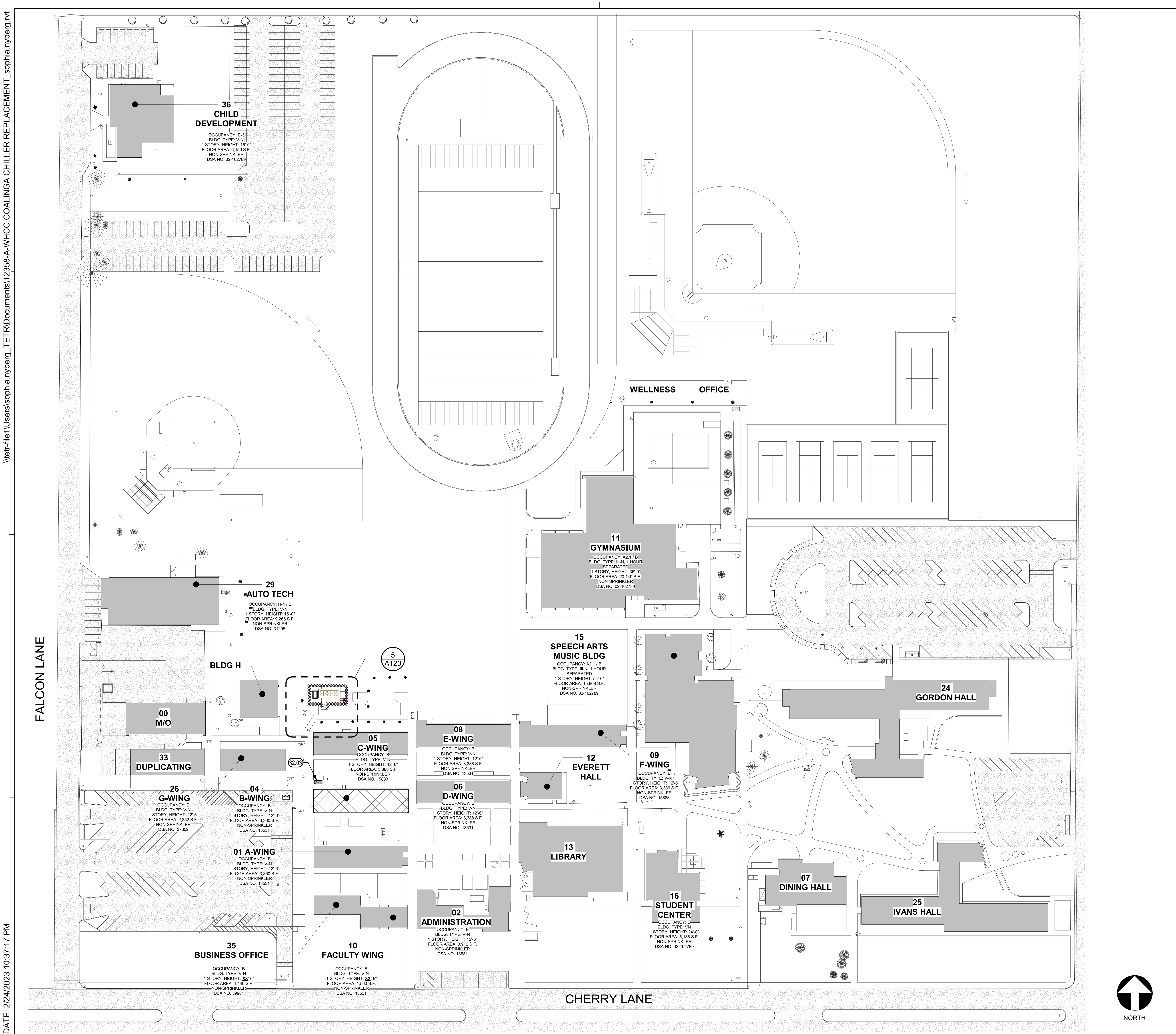
WHCCD COALINGA
CHILLER REPLACEMENT
300 CHERRY LANE
COALINGA, CA

DRAWING TITLE
COVER

PROJECT NO.
22-12358

DRAWING
G000

PLOT DATE: 2/24/2023 10:36:27 PM



SITE PLAN

1" = 60'-0" 8

KEYNOTES (00.00)

32.03 SAFETY RAILING SYSTEM, SEE DETAIL 3/A102

LEGEND

F.H.	(E) FIRE HYDRANT
	PROPERTY LINE
	(E) PAVING
	(E) BUILDING NOT IN SCOPE
	(E) BUILDING IN SCOPE OF WORK

GENERAL NOTES

A. KEYNOTES APPLY TO THIS SHEET ONLY.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120711 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 03/16/2023

MARK	DATE	DESCRIPTION
A	3/1/2023	DSA BACKCHECK

TETER, LLP
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

WHCCD COALINGA
CHILLER REPLACEMENT
300 CHERRY LANE
COALINGA, CA

DRAWING TITLE
SITE PLAN

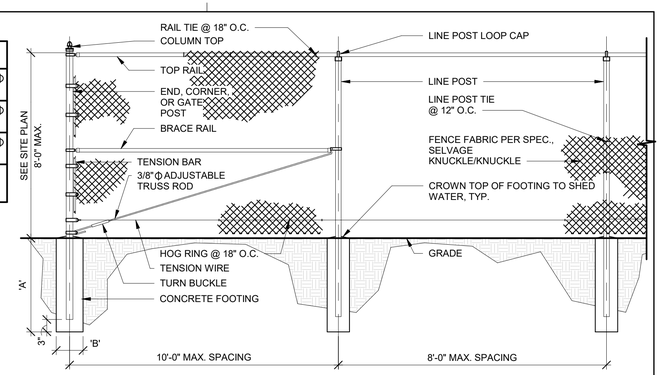
PROJECT NO.
22-12358

DRAWING
A100

\\tetr-file1\Users\sophia.nyberg_TETR\Documents\12358-A-WHCC COALINGA CHILLER REPLACEMENT_sophia.nyberg.rvt

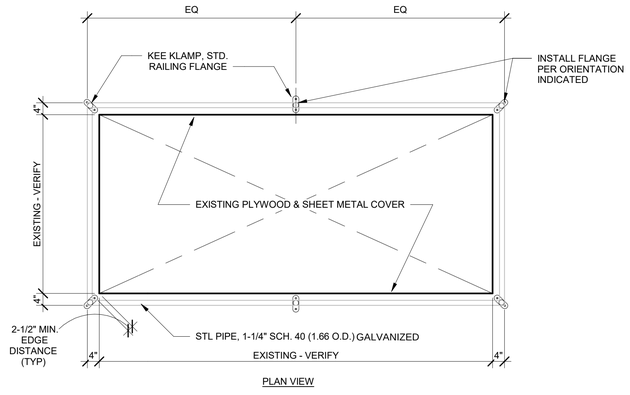
	MEMBER SIZE:	'A'	'B'
LINE POSTS 10'-0" O.C. MAX.	5.56"Φ O.D. 14.60 PLF	42"	18"Φ
CORNER AND END POST	5.56"Φ O.D. 14.60 PLF	42"	18"Φ
GATE POST	5.56"Φ O.D. 14.60 PLF	42"	12"Φ
TOP AND BRACE RAILS	2.38"Φ O.D. 3.66 PLF	--	--

NOTE: ALL CHAIN LINK FENCING IS NOT PART OF THE DSA STRUCTURAL SAFETY APPROVAL (DSA IRA-22)



FENCE CHAIN LINK

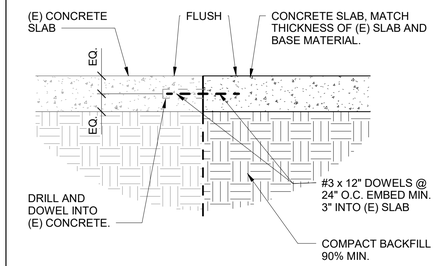
1/2" = 1'-0" | 1



NOTE:
1. 6'-0" MAX. DISTANCE BETWEEN RAIL POST.

WALKWAY PROTECTION RAIL

1/2" = 1'-0" | 3



(N) TO (E) CONC. SLAB

1 1/2" = 1'-0" | 4

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ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
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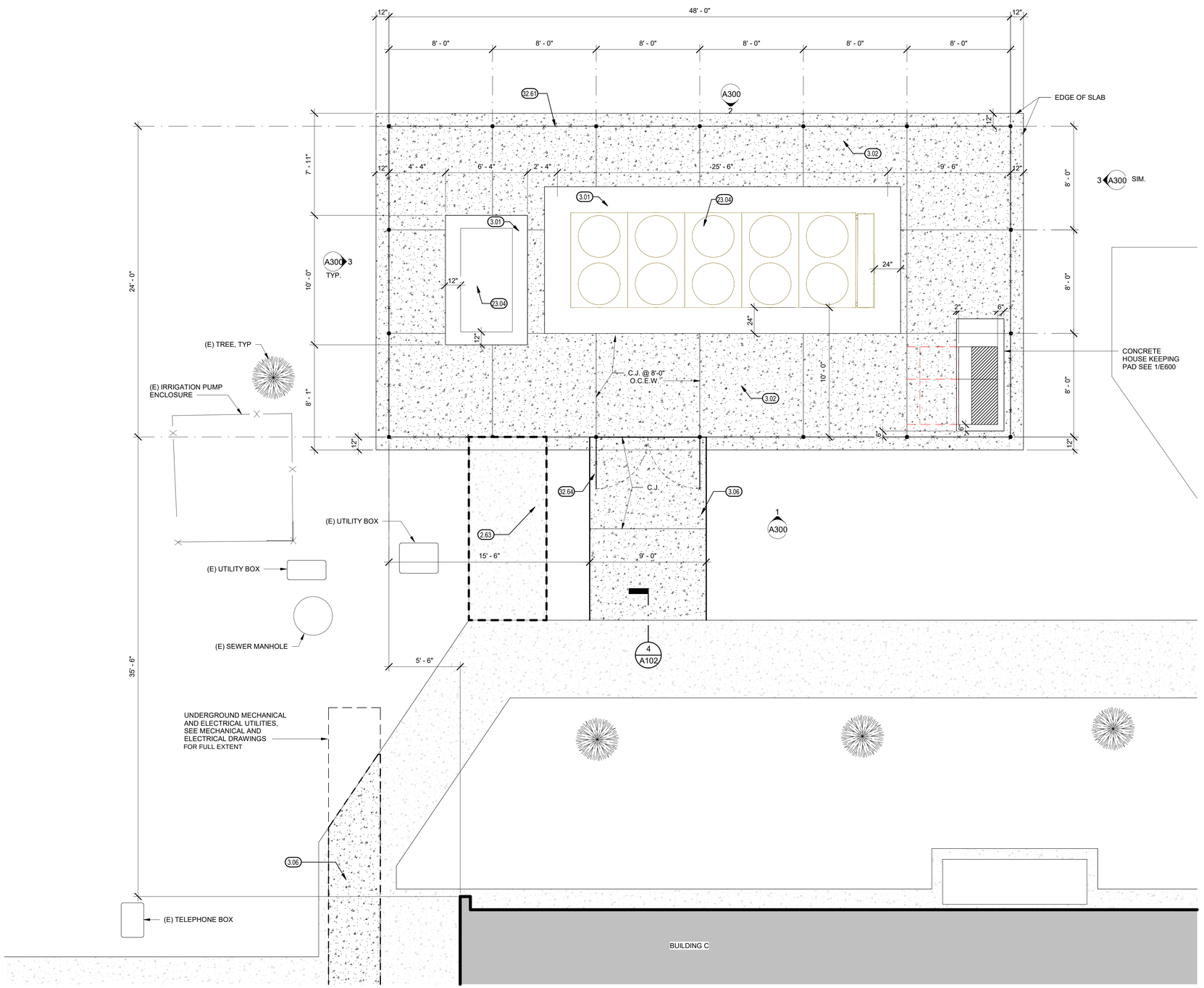
WHCCD COALINGA
CHILLER REPLACEMENT
300 CHERRY LANE
COALINGA, CA

DRAWING TITLE
SITE DETAILS

PROJECT NO.
22-12358

DRAWING
A102

PLOT DATE: 2/24/2023 10:37:18 PM



KEYNOTES (30.00)

2.63	SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY.
3.01	NEW CONCRETE PAD FOR MECHANICAL EQUIPMENT, 6" MIN. THICK
3.02	NEW CONCRETE SLAB, 5" MIN. THICK
3.06	NEW CONCRETE WALKWAY
23.04	MECHANICAL EQUIPMENT, SEE MECH
32.61	CHAIN LINK FENCING, 8'-0" FT HIGH, SEE ELEVATIONS
32.64	CHAIN LINK PAIR OF SWING SERVICE GATES, SEE ELEVATIONS

GENERAL NOTES

A. KEYNOTES APPLY TO THIS SHEET ONLY.

ENLARGED SITE PLAN — 1/4" = 1'-0" — 5

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LICENSED ARCHITECT ★ JONATHAN A. NYBERG ★ No. 34085 ★ STATE OF CALIFORNIA

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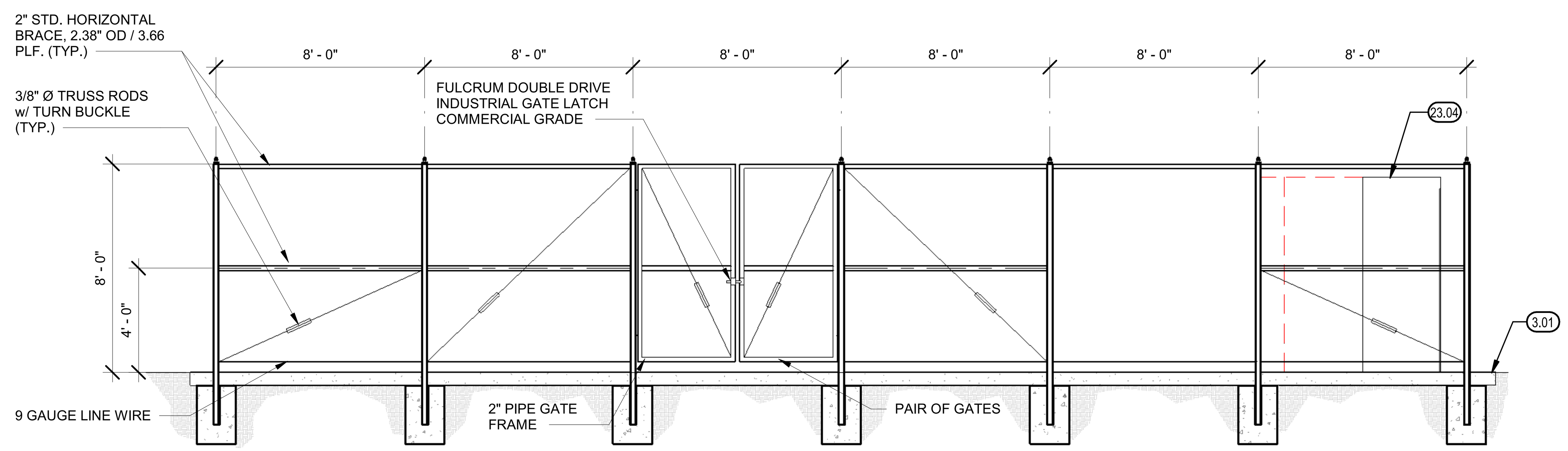
CHILLER REPLACEMENT
300 CHERRY LANE
COALINGA, CA

DRAWING TITLE
ENLARGED SITE PLAN

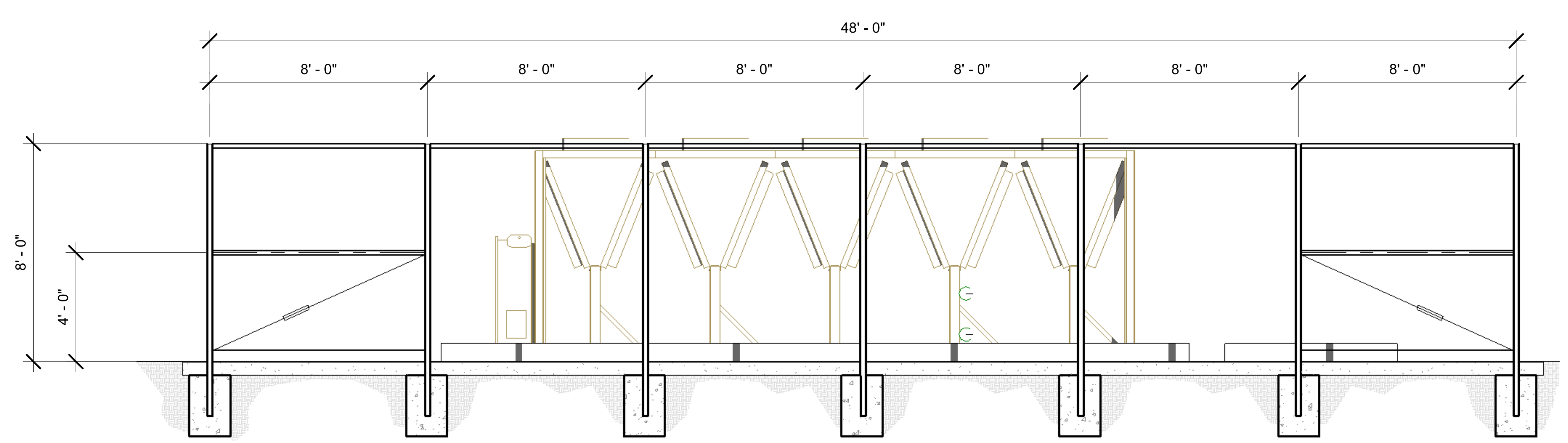
PROJECT NO.
22-12358

DRAWING
A120



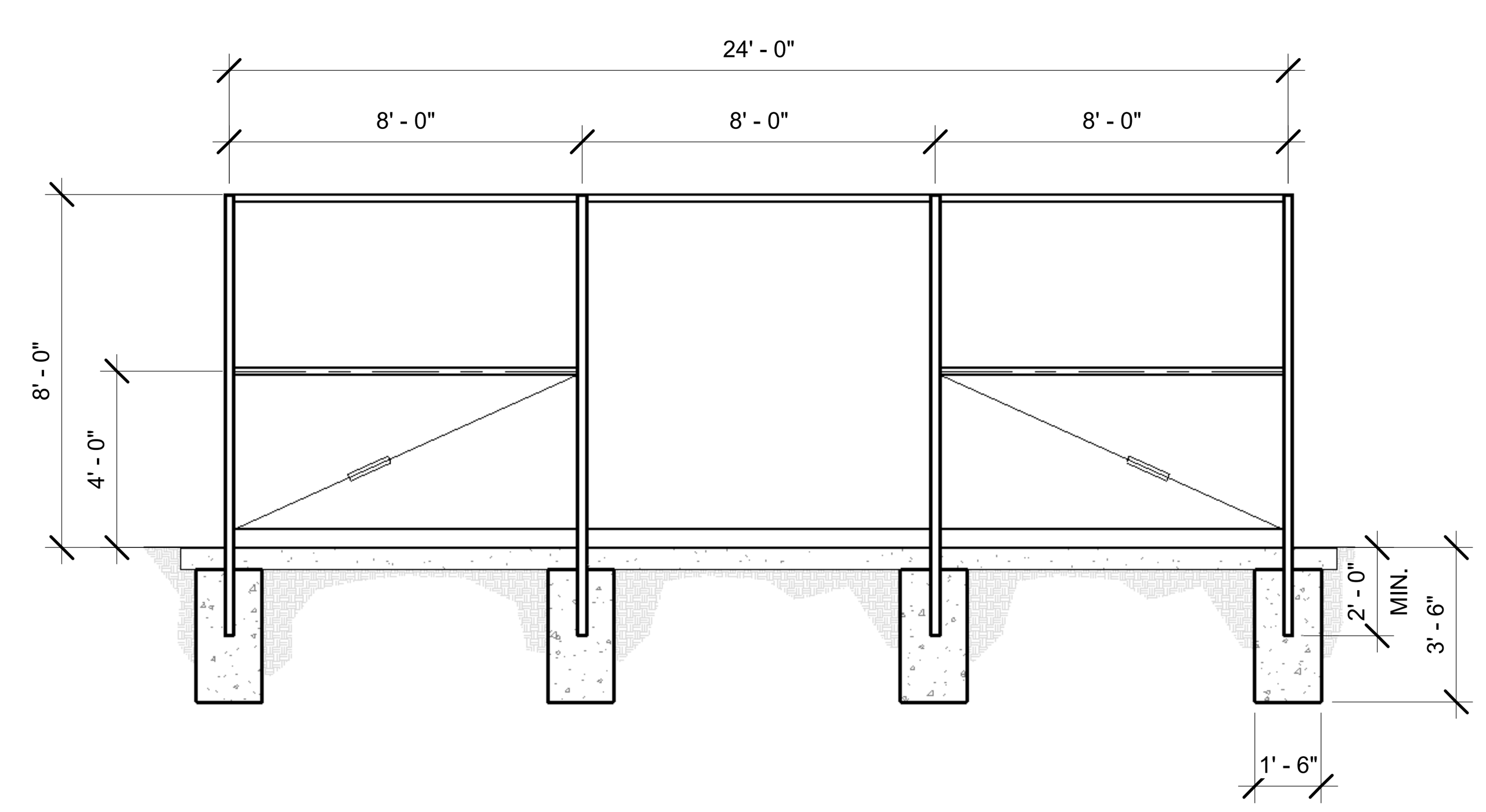
SOUTH FENCE ELEVATION

1/4" = 1'-0" | 1



NORTH FENCE ELEVATION

1/4" = 1'-0" | 2



EAST / WEST ELEVATION, TYP.

1/4" = 1'-0" | 3

NOTE:
REFER TO DETAIL 1/A102
FOR TYP. NOTES & SIZES

KEYNOTES

3.01	NEW CONCRETE PAD FOR MECHANICAL EQUIPMENT, 5" MIN. THICK
23.04	MECHANICAL EQUIPMENT, SEE MECH

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ARCHITECTS ENGINEERS CONNECTED

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CHILLER REPLACEMENT
300 CHERRY LANE
COALINGA, CA

DRAWING TITLE
FENCE ELEVATIONS

PROJECT NO.
22-12358

DRAWING
A300

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PLOT DATE: 2/24/2023 10:37:20 PM

ANCHORAGE & BRACING NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☐ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP ☒ MD ☐ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0043-13.

LEGEND

SYMBOL	ITEM	ABBR.
	ABOVE	ABV
	ABOVE CEILING	ABV CLG
	ABOVE FINISHED FLOOR	AFF
	ALTERNATE	ALT
	AIR CONDITIONING	AC
	AIR FLOW STATION	AFS
	AIR HANDLER UNIT	AHU
	ANALOG INPUT	AI
	ANALOG OUTPUT	AO
&	AND	
	ARCHITECT / ARCHITECTURAL	ARCH
@	AT	
	BACKDRAFT DAMPER	BDD
	BELOW FINISH CEILING	BFC
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
	BLIND FLANGE	BLF
	BRITISH THERMAL UNIT	BTU
	BRITISH THERMAL UNIT PER HOUR	BTUH
	CALIFORNIA MECHANICAL CODE	CMC
	CALIFORNIA PLUMBING CODE	CPC
	CEILING	CLG
℄	CENTER LINE	
	CONTINUATION	CONT
	CUBIC FEET OF AIR PER MINUTE	CFM
	CURRENT SENSOR	CS
Φ	DIAMETER	DIA
	DIFFERENTIAL PRESSURE SWITCH	DPS
	DIGITAL INPUT	DI
	DIGITAL OUTPUT	DO
	DOWN	DN
	DRAWING	DWG
	ELECTRICAL	ELEC
	ELBOW	ELL
	EXHAUST	EXH
	EXHAUST AIR	EA
	EXHAUST FAN	EF
	EXISTING	(E)
	FEET	FT
	FLOOR	FLR
	FLOW LINE	FL
	FLOW SWITCH	FS
	GAUGE	GA
	GALLON	GAL
	GALLONS PER HOUR	GPH
	GALLONS PER MINUTE	GPM
	INSIDE DIAMETER	ID
	MAKE-UP AIR UNIT	MAU
	MAXIMUM	MAX
	MINIMUM	MIN
	NEW	(N)
	NOT IN CONTRACT	NIC
	NOT TO SCALE	NTS
#	NUMBER	NO.
	OUTSIDE AIR	OSA
	OUTSIDE DIAMETER	OD
	POUNDS	LBS
	POUNDS PER SQUARE INCH	PSI
	POUNDS PER SQUARE INCH ABSOLUTE	PSIA
	POUNDS PER SQUARE INCH GAUGE	PSIG
	POLYVINYL CHLORIDE	PVC
	PRESSURE STATION	PS
	RETURN AIR	RA
	ROOM	RM
	SUPPLY AIR	SA
	SPECIFICATION	SPEC
	SQUARE FEET	SQ FT
	STAINLESS STEEL	SS
	TEMPERATURE	TEMP
	TEMPERATURE SENSOR	TS
	THROUGH	THRU
	TYPICAL	(TYP)

SYMBOL	ITEM	ABBR.
	UNDER GROUND	U/G
	VARIABLE AIR VOLUME UNIT	VAV
	WITH	W/
	WITHOUT	W/O
BD	BOILER BLOWDOWN	
BF	BOILER FEED	
CF	CHEMICAL FEED	
A	COMPRESSED AIR	A
CHWS	CHILLED WATER SUPPLY	CHWS
CHWR	CHILLED WATER RETURN	CHWR
CWS	CONDENSER WATER SUPPLY	CWS
CWR	CONDENSER WATER RETURN	CWR
CW	DOMESTIC COLD WATER	
HWS	HOT WATER SUPPLY	HWS
HWR	HOT WATER RETURN	HWR
RD	REFRIGERANT DISCHARGE	RD
RL	REFRIGERANT LIQUID	RL
RS	REFRIGERANT SUCTION	RS
SCW	SOFT COLD WATER	
S	STEAM SUPPLY	S
CR	STEAM CONDENSATE RETURN	CR
SBD	SURFACE BLOWDOWN	
D	DRAIN	D
	PIPING CAP	
	EXISTING (DESIGNATED)	(E)
	REMOVE / DEMO EXISTING (DESIGNATED)	
	DIRECTION OF FLOW	
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	PIPE/DUCT TURN DOWN	
	PIPE/DUCT TURN UP	
	ROUND DUCT (SMALLER THAN 10⌀)	
	ROUND FLEXIBLE DUCT	
	RECTANGULAR OR ROUND DUCT (10⌀ AND LARGER)	
	EXISTING DUCT (DESIGNATED)	
	REMOVE/ DEMO EXISTING DUCT (DESIGNATED)	
	DUCT WITH ACOUSTIC LINING	
	SUPPLY AIR DUCT DROP	
	SUPPLY AIR DUCT RISE	
	RETURN AIR DUCT DROP	
	RETURN AIR DUCT RISE	
	EXHAUST AIR DUCT DROP	
	EXHAUST AIR DUCT RISE	
	OUTSIDE AIR DUCT DROP	
	OUTSIDE AIR DUCT RISE	
	TURNING VANES	TV
	EXTRACTOR	
CO	CO_2 SENSOR	
DD	DUCT DETECTOR	DD
HD	HEAT DETECTOR	HD
SD	SMOKE DETECTOR	SD
M	MOTORIZED DAMPER	
	FIRE DAMPER W/MOTORIZED RESET AND ACCESS DOOR	
	FIRE DAMPER WITH ACCESS PANEL OR SECURITY BARS	
-OR-▲	FIRE DAMPER WITH ACCESS PANEL	FD
-OR-■	FIRE/SMOKE DAMPER WITH ACCESS PANEL	F/SD
	VOLUME CONTROL DAMPER WITH LOCKING QUADRANT	VCD
T	REMOTE T'STAT WITH SENSOR IN DUCT	
T AC-1	THERMOSTAT; THERMOSTAT LABEL EXAMPLE: THERMOSTAT FOR AC-1 MOUNT AT 48" AFF TO TOP OF BOX	T'STAT
	POINT OF CONNECTION TO EXISTING	POC
	BYPASS TIMER	BPT
	THERMOMETER	
	PRESSURE GAGE	

SYMBOL	ITEM	ABBR.
	SECURITY BARS	
	PETE'S PLUG	
	BALANCING COCK	
	BALL VALVE	
	BUTTERFLY VALVE	
	CHECK VALVE	
	CONCENTRIC REDUCER	
	TWO-WAY CONTROL VALVE	
	FLOW SWITCH	FS
	FLEXIBLE CONNECTION	FLEX
	GATE VALVE	
	GLOBE VALVE	
	INSTRUMENT WELL	
	PLUG VALVE	
	PRESSURE RELIEF VALVE	PRV
	"Y" TYPE STRAINER	
	UNION	
1	KEYNOTE	
A	GRILLE TAG	
EF 8	NEW EQUIPMENT TAG EXAMPLE: DESCRIPTION EF, MARK NUMBER 8	
2 M202	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET M202	
3 M400	SECTION REFERENCE EXAMPLE: SECTION 3, SHEET M400	

GENERAL NOTES

1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
2. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
3. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
4. PROVIDE ALL DUCT TRANSITION PIECES AND FITTINGS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT CONNECTIONS, STRUCTURE, ARCHITECTURAL ELEMENTS, AND CHANGES IN DUCT SIZES.
5. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND CHAPTER 6 OF THE 2019 CMC.
6. ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF 2019 CMC. INSULATION MATERIALS SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8, 120.3, AND 120.4 OF THE 2019 CALIFORNIA ENERGY CODE.
7. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
8. DUCTWORK SHALL BE SHEET METAL CONSTRUCTED IN COMPLETE CONFORMANCE WITH CMC LATEST EDITION, CHAPTER 6 AND THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
9. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
10. PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS (SUPPLY, RETUTRN, O.A. AND EXHAUST) FOR SYSTEM BALANCING.
11. HANDLE, STORE AND INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS AND AS DIRECTED IN THE PROJECT MANUAL.
12. ALL AIR SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED TO MEET THE REQUIRED FLOW. TAB METHODOLOGY SHALL BE SUBMITTED TO OWNER REPRESENTATIVE PRIOR TO IMPLEMENTATION AND IN ACCORDANCE WITH PROJECT SEQUENCING.

MECHANICAL SHEET INDEX

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TETER

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CHILLER REPLACEMENT
300 CHERRY LANE
COALINGA, CA

DRAWING TITLE
MECHANICAL LEGENDS AND NOTES

PROJECT NO.
22-12358

DRAWING
M001

MECHANICAL SCHEDULES

WATER CHILLER SCHEDULE (AIR COOLED)
(OWNER FURNISHED, CONTRACTOR INSTALLED)

DESIGNATION		CH-1
CAPACITY (TONS)		156.1
FLA		351
VOLTS / PHASE		460 / 3
MCA / MOCP		369 / 500
EER / IPLV		8.5 / 16.8
COMP. MOTOR	QUANTITY	6
	RLA (EACH)	54
	OPER. KW (EACH)	34.9
EVAPORATOR	GPM	305
	PRESSURE DROP (FT.)	8.6
	EWT / LWT (°F)	54 / 42
	SCALE FACTOR	0.0001
AMBIENT AIR (°F)		105
MANUFACTURER		TRANE
TYPE		SCROLL
MODEL NUMBER		ACSA1802EUA*Q
LOCATION		MECHANICAL YARD
OPER. WT (LBS)		9,577
ACCESSORIES		1,2,3

1. SUPERIOR NOISE REDUCTION PACKAGE.
2. FLOW SWITCH FIELD MOUNTED AND WIRED.
3. BACNET (MS/TP) INTERFACE.

CHILLED WATER PUMP SKID SCHEDULE

DESIGNATION		PS-1
PUMPS	GPM	180
	TDH (FT.)	110
	HP	10
	RPM	3,600
	QTY.	2
	TYPE	IN-LINE
	MANUFACTURER	BELL & GOSSETT
	MODEL	e-80 2.5x7B
AIR/DIRT SEPARATOR	GPM	360
	PRESSURE DROP (FT.)	1.0
	CONNECTION SIZE (IN.)	6
	MANUFACTURER	BELL & GOSSETT
	MODEL	CRS-6F
EXPANSION TANK	TANK VOLUME (GAL.)	45
	TANK ACCEPTANCE (GAL.)	36
	TYPE	VERTICAL DIAPHRAGM
	MANUFACTURER	BELL & GOSSETT
	MODEL	D-80
BYPASS FEEDER	VOLUME (GAL.)	5
	MANUFACTURER	GRISWOLD
	MODEL	FB-5
VOLTS / PHASE		460 / 3
MANUFACTURER		FLOWTHERM SYSTEMS
LOCATION		CHILLER YARD
OPER. WT (LBS)		4,420
ACCESSORIES		1,2,3,4,5

1. FACTORY PRE-PIPED AND WIRED, AND MOUNTED ON A STRUCTURAL STEEL FRAME.
2. PUMPS SHALL BE SELECTED AND PIPED FOR PARALLEL OPERATION.
3. FACTORY CONTROL PANEL WITH VFD'S AND BACNET BMS INTERFACE, MOUNTED ON SKID.
4. SUCTION DIFFUSERS AND FLEXIBLE PUMP CONNECTORS.
5. PEDESTAL, VALVE PACKAGE, AND FUNNEL PACKAGE FOR BYPASS FEEDER.

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300 CHERRY LANE
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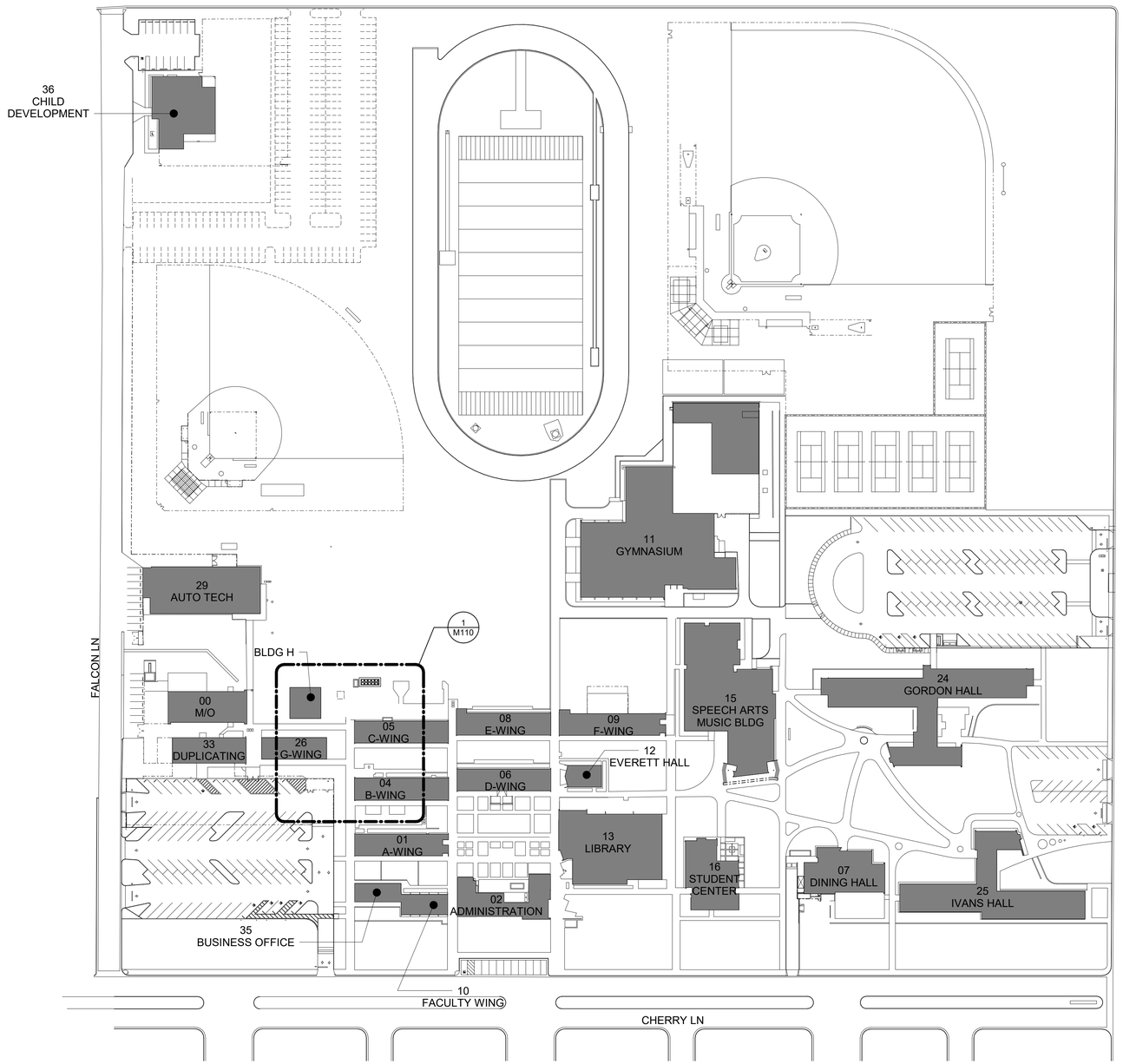
DRAWING TITLE
MECHANICAL SCHEDULES

PROJECT NO.
22-12358

DRAWING
M002



MECHANICAL SITE PLAN — 1" = 80'-0" — 1

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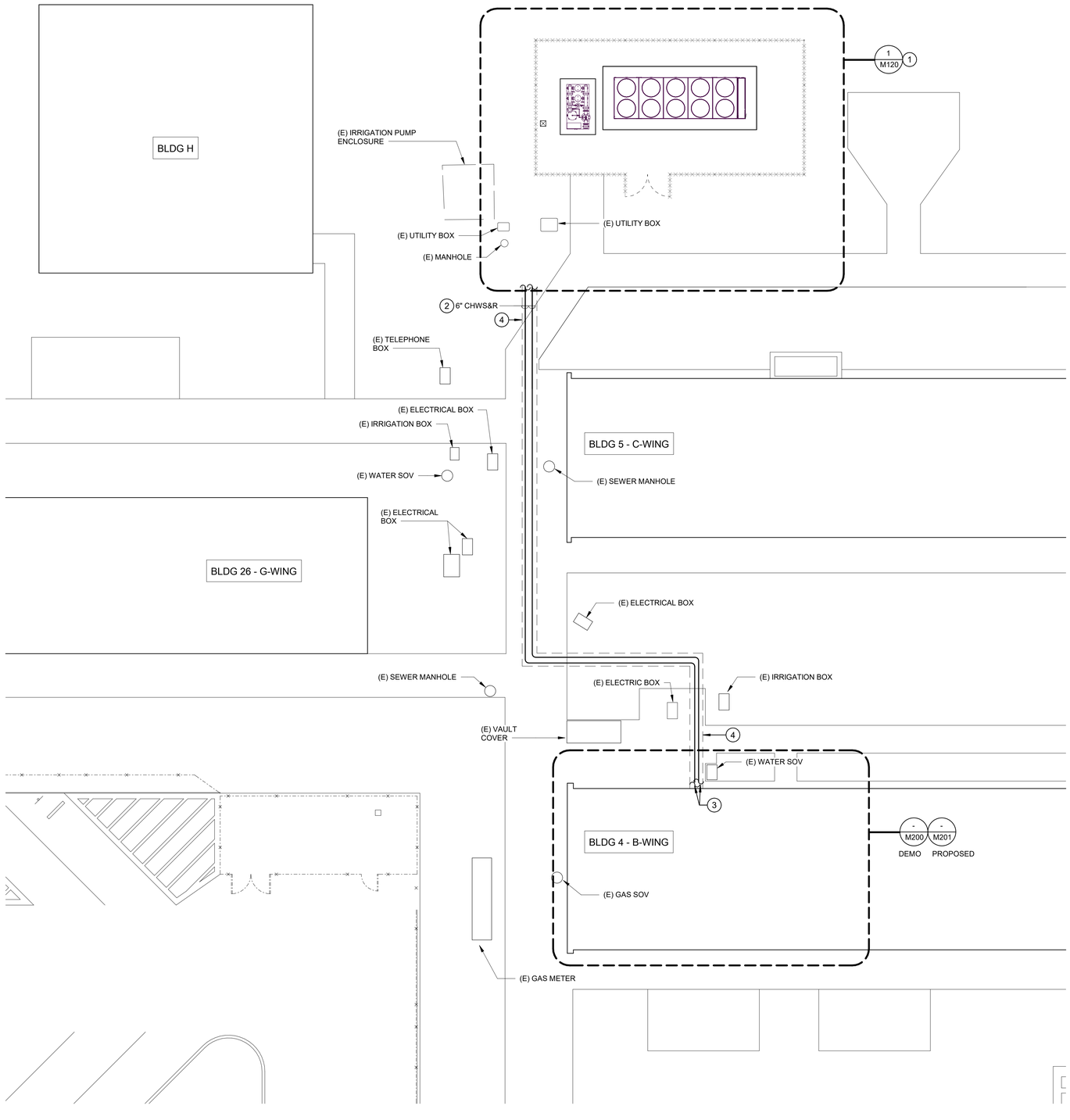
PROJECT NO.
22-12358

DRAWING
M100



KEYNOTES

1 (N) MECHANICAL YARD. SEE SHEET M120 FOR DETAILS.
2 (N) 6" CHWS&R PIPING BELOW GRADE. SEE 12&13/M800 FOR DETAIL.
3 SEE SHEET M201 FOR CONTINUATION.
4 (N) UTILITY TRENCH BEL. GR. SEE 12&13/M800 FOR DETAILS.

GENERAL NOTES

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL DWG'S FOR (E) SITE UTILITY PLAN AND COORDINATE (N) TRENCH TO AVOID CONFLICTS WITH (E) BEL. GR. UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY (E) UTILITY LINES DAMAGED DURING CONSTRUCTION OF (N) PIPING TRENCH AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.

ENLARGED MECHANICAL SITE PLAN 1" = 10'-0" 1

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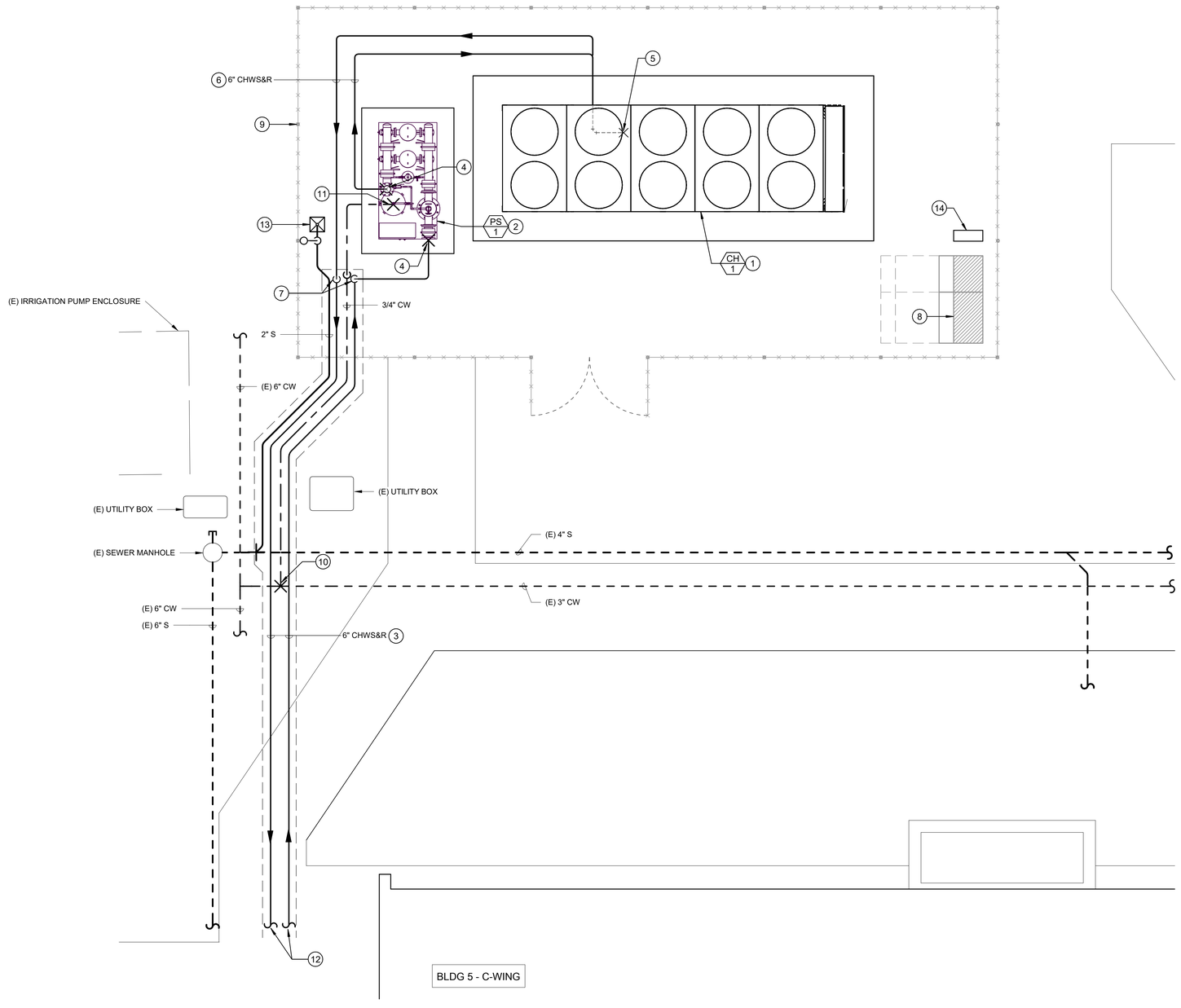
CHILLER REPLACEMENT
300 CHERRY LANE
COALINGA, CA

DRAWING TITLE
ENLARGED MECHANICAL SITE PLAN

PROJECT NO.
22-12358

DRAWING
M110



KEYNOTES

1 (N) AIR COOLED WATER CHILLER MOUNTED ON CONC. PAD. SEE 1/M800 FOR ANCHORAGE.
2 NEW PUMP SKID MOUNTED ON CONC. PAD. SEE 2/M800 FOR ANCHORAGE.
3 (N) 6" CHWS&R BELOW GRADE. SEE 12/M800 FOR TRENCH DETAIL. REFER TO ARCHITECTURAL SHEET A120 FOR (E) SITE UTILITY REFERENCE.
4 POC (N) 6" CHW PIPE TO (N) PUMP SKID.
5 POC (N) 6" CHWS&R TO (N) CHILLER.
6 SEE 5/M800 FOR SUPPORT OF CHWS&R PIPING ABOVE GRADE.
7 6" CHWS&R AND 3/4" CW PIPES DOWN THRU CONC. SLAB.
8 (N) TRANSFORMER, SEE ELEC.
9 (N) CHAIN LINK FENCE, SEE ARCH.
10 POC (N) 3/4" CW TO (E) 3" CW BEL. GR. SEE 12/M800 FOR TRENCH DETAIL.
11 POC (N) 3/4" CW TO (N) PUMP SKID.
12 SEE SHEET M110 FOR CONTINUATION.
13 2" S WITH P-TRAP & 1-1/2" V OFFSET BEL. SLAB FOR (N) FLOOR SINK. ROUTE VENT UP THRU SLAB, TERMINATE MIN. 10' ABV. SLAB, AND SECURE TO FENCE POST. (JAY R. SMITH 3140Y02-12, 12"x12"x6" DEEP COATED CAST IRON WITH NICKEL BRONZE RIM WITH HALF GRATE, DOME BOTTOM STRAINER, DOUBLE DRAINAGE FLANGE, AND NO HUB OUTLET.)
14 (N) EMS CONTROL PANEL. SEE M700 FOR CONTROL DIAGRAM. SEE ELECTRICAL FOR POWER AND DATA CONNECTIONS. PROVIDE 12" MIN BETWEEN EMS PANEL AND ELECTRICAL EQUIPMENT. SEE 18/M800 FOR SUPPORT.

NORTH

ENLARGED MECHANICAL SITE PLAN - CHILLER YARD

1/4" = 1'-0"

1

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DRAWING TITLE
ENLARGED MECHANICAL SITE PLAN - CHILLER YARD

PROJECT NO.
22-12358

DRAWING
M120

KEYNOTES

1 REMOVE (E) WATER COOLED CHILLERS AND ASSOCIATED SUPPORTS. REMOVE ALL CHWS&R AND CWS&R PIPING SHOWN HATCHED AND ASSOCIATED SUPPORTS. REMOVE (E) CHILLER CONTROLS AND CONTROL WIRING.

2 REMOVE (E) CONDENSER WATER PUMP AND ASSOCIATED SUPPORTS. REMOVE ALL CWS&R PIPING SHOWN HATCHED. REMOVE (E) PUMP CONTROLS AND CONTROL WIRING.

3 REMOVE (E) CHILLED WATER PUMP AND ASSOCIATED SUPPORTS. REMOVE ALL CHWS&R PIPING SHOWN HATCHED. REMOVE (E) PUMP CONTROLS AND CONTROL WIRING.

4 (E) AIR HANDLER, ASSOCIATED CHWS&R AND HWS&R PIPING, AND CONTROLS TO REMAIN.

5 REMOVE (E) COOLING TOWER AND ASSOCIATED SUPPORTS. ALSO REMOVE ALL CWS&R PIPING AND ASSOCIATED SUPPORTS. REMOVE (E) DUCTWORK BELOW CEILING AND PROVIDE (N) SHEET METAL CAP ON ROOF. (E) DUCT THRU ROOF TO REMAIN.

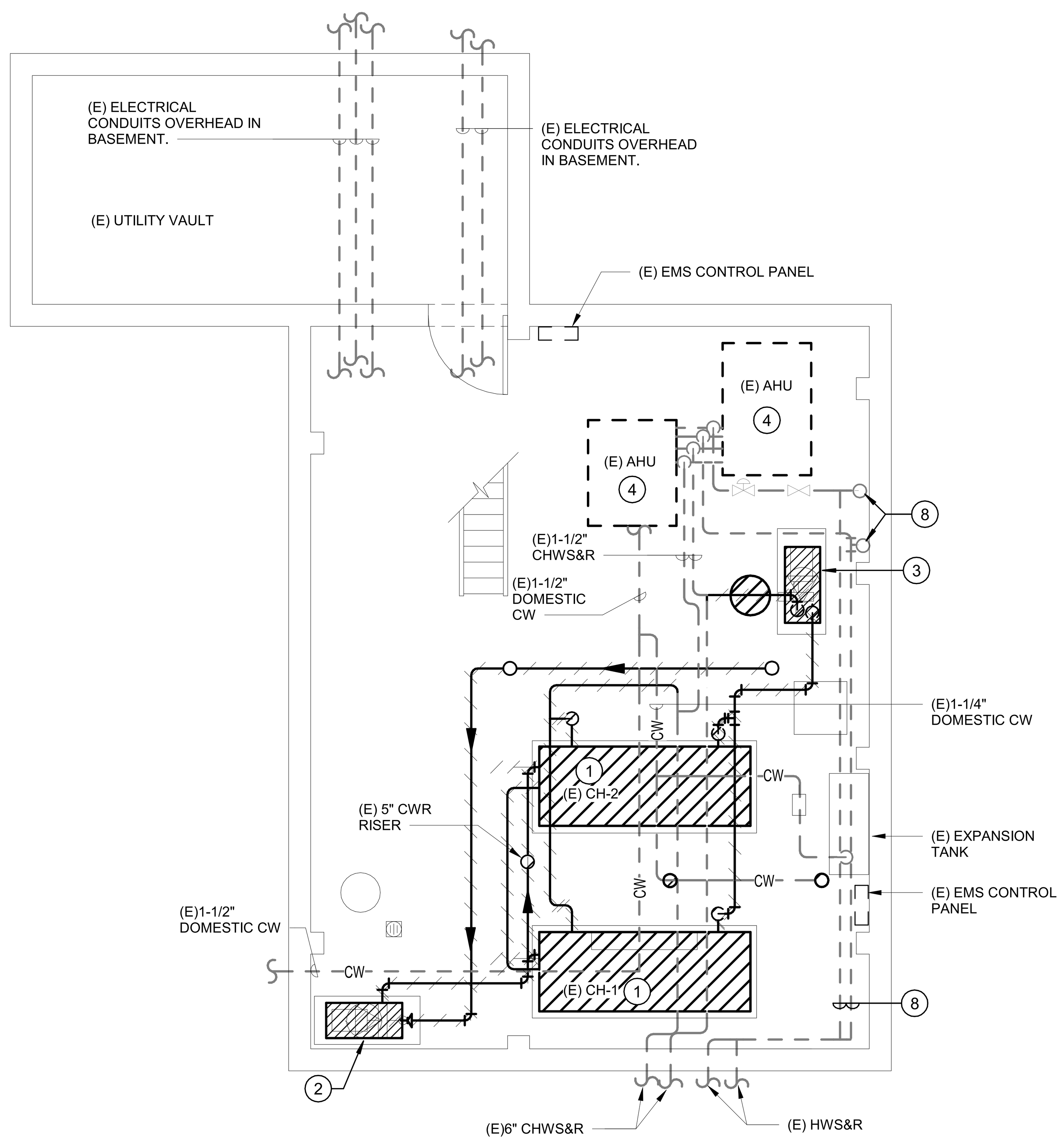
6 REMOVE (E) COOLING TOWER CONTROLS, CONTROL WIRING, AND ASSOCIATED SUPPORTS.

7 REMOVE (E) CHEMICAL FEED CONTROLS, CONTROL WIRING, AND ASSOCIATED SUPPORTS.

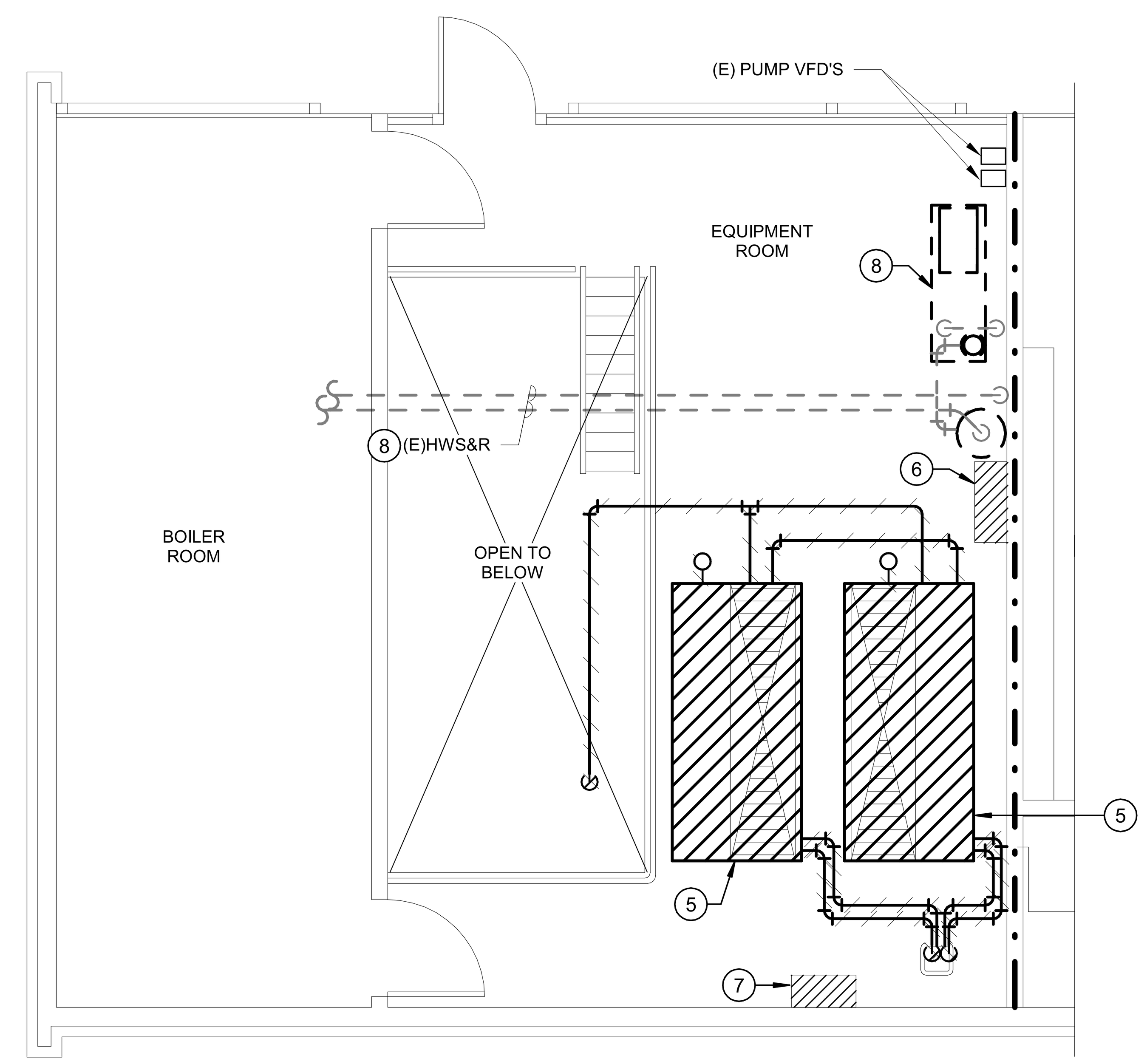
8 (E) HWS&R PIPING, CIRCULATION PUMP, AND ASSOCIATED EQUIPMENT AND CONTROLS TO REMAIN.

LEGEND

(E) 1 HOUR RATED WALL ASSEMBLY



MECHANICAL DEMOLITION FLOOR PLAN - BASEMENT 1/4" = 1'-0" 2



MECHANICAL DEMOLITION FLOOR PLAN - FIRST FLOOR 1/4" = 1'-0" 1

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MECHANICAL DEMOLITION FLOOR PLANS

PROJECT NO.
22-12358

DRAWING
M200

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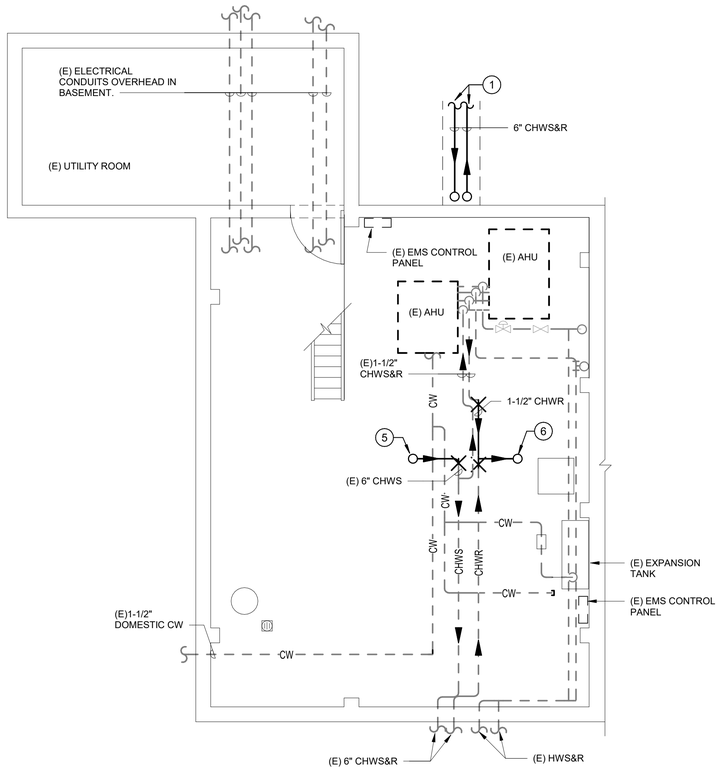
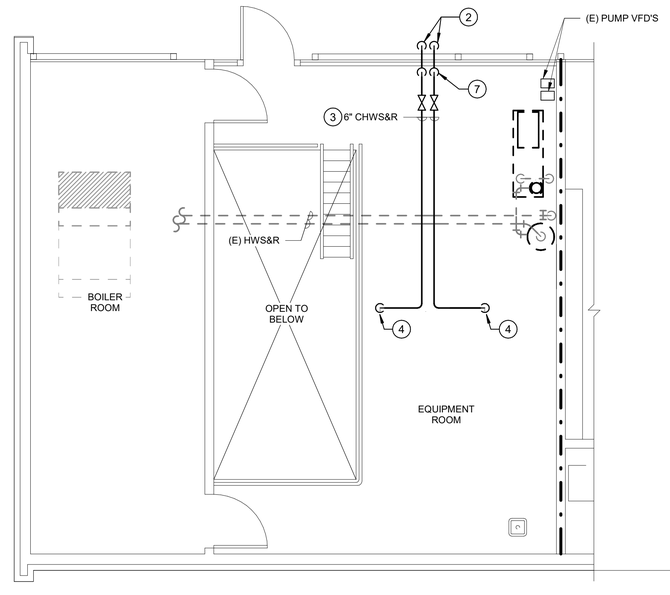


NORTH

PROPOSED MECHANICAL FLOOR PLAN - BASEMENT 1/4" = 1'-0" 2



NORTH

PROPOSED MECHANICAL FLOOR PLAN - FIRST FLOOR 1/4" = 1'-0" 1

KEYNOTES

1 (N) 6" CHWS&R BELOW GRADE. SEE M110 FOR CONT. SEE 12/M800 FOR TRENCH DETAIL.

2 (N) 6" CHWS&R UP THRU CONC. FROM BELOW GRADE. OFFSET INTO BLDG THRU (E) EXTERIOR LOUVER AT +12" AFF TO BTM. OF PIPE. CUT (E) LOUVER AS NECESSARY FOR PIPE PENETRATIONS.

3 (N) 6" CHWS&R ROUTED OVERHEAD. SEE 4/M800 FOR SUPPORT.

4 (N) 6" CHWS&R DOWN THRU (E) OPENINGS IN FLOOR GRATE.

5 (N) 6" CHWS DOWN FROM ABOVE AND CONNECT TO (E) 6" CHWS. SEE 4/M800 FOR SUPPORT.

6 (N) 6" CHWR DOWN FROM ABOVE AND CONNECT TO (E) 6" CHWR. SEE 4/M800 FOR SUPPORT.

7 OFFSET PIPING OVERHEAD. SEE 4/M800 FOR PIPE SUPPORT.

LEGEND

(E) 1 HOUR RATED WALL ASSEMBLY

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PROPOSED MECHANICAL FLOOR PLANS

PROJECT NO.
22-12358

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EMS SCHEDULE OF POINTS

SCHEDULE OF POINTS

EQUIPMENT TYPE	POINT DESCRIPTION														
	HARDWARE				SOFTWARE						GRAPHICS		
CHILLER	ANALOG INPUT	ANALOG OUTPUT	DIGITAL INPUT	DIGITAL OUTPUT	SCHEDULE	TEXT DISPLAY	MODIFY VALUE	ALARM	LOG	TREND	ANIMATED	DISPLAY	
POINTS DESCRIPTION	AI	AO	DI	DO	S	T	M	A	L	T	A	D	COMMENTS
START/STOP				X	X	X						X	
WATER TEMP - RETURN	X					X			X	X		X	
WATER TEMP - SUPPLY	X					X			X	X		X	
COMPRESSOR STATUS			X			X		X	X	X		X	PROVIDE STATUS FOR EACH COMPRESSOR.
INTERFACE TO CHILLER MFR PANEL			X			X		X				X	SEE NOTE 1.
CHILLED WATER SUPPLY TEMP RESET		X				X			X			X	OR RETURN TEMP RESET AS APPLICABLE.
CHILLED WATER SUPPLY TEMP SET POINT		X				X	X				X		
CHILLER LOCKOUT SET POINT		X				X	X				X		
CHILLER LOCKOUT				X		X							
CHILLER LOCKOUTOUT STATUS			X			X			X			X	
SYSTEM FLOW RATE	X					X		X	X	X		X	
BYPASS VALVE		X				X			X		X		

SCHEDULE OF POINTS

EQUIPMENT TYPE	POINT DESCRIPTION														
	HARDWARE				SOFTWARE						GRAPHICS		
PUMP	ANALOG INPUT	ANALOG OUTPUT	DIGITAL INPUT	DIGITAL OUTPUT	SCHEDULE	TEXT DISPLAY	MODIFY VALUE	ALARM	LOG	TREND	ANIMATED	DISPLAY	
POINTS DESCRIPTION	AI	AO	DI	DO	S	T	M	A	L	T	A	D	COMMENTS
START/STOP				X	X	X						X	
STATUS			X			X		X	X		X		
VARIABLE FREQUENCY DRIVE		X				X	X		X			X	
PRESSURE SENSOR	X					X			X			X	
PRESSURE SENSOR SET POINT		X				X	X		X			X	IF APPLICABLE

NOTES:
1. ANY ALARM OR TROUBLE SIGNAL FROM MFR PANEL SHALL BE REPORTED AS GENERAL ALARM (ONE POINT FOR ALL ALARM OR TROUBLE SIGNALS).

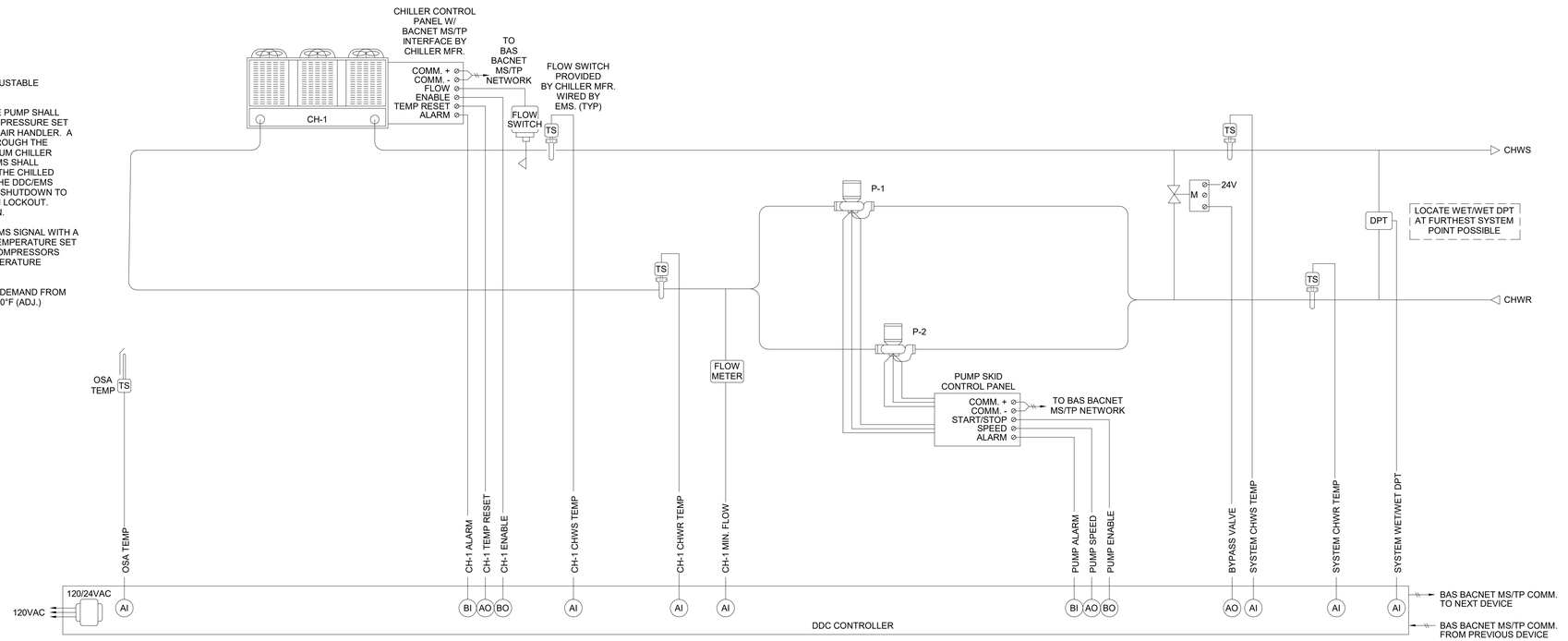
SEQUENCE OF OPERATIONS

1. GENERAL: THE CHILLER PLANT SHALL BE DIRECTLY CONTROLLED BY THE DDC/EMS SYSTEM. OCCUPIED/UNOCCUPIED SCHEDULE AND OUTSIDE AIR LOCKOUT SET POINT SHALL BE SET AND ADJUSTABLE THROUGH THE DDC SYSTEM.

2. CHILLER PUMPS: THE LEAD CHILLER PUMP WILL START BY SIGNAL FROM THE DDC/EMS. VFD ON THE PUMP SHALL MODULATE AND THE LEAD/LAG PUMPS SHALL BE STAGED TO MAINTAIN A CONSTANT DIFFERENTIAL PRESSURE SET POINT (ADJUSTABLE) MEASURED ACROSS THE SUPPLY AND RETURN PIPING AT THE MOST REMOTE AIR HANDLER. A DIFFERENTIAL PRESSURE SENSOR ACROSS THE CHILLER EVAPORATOR SHALL MONITOR FLOW THROUGH THE CHILLER. IF THE DIFFERENTIAL PRESSURE ACROSS THE CHILLER INDICATES FLOW IS AT THE MINIMUM CHILLER FLOW (COORDINATE WITH THE BALANCE CONTRACTOR TO ESTABLISH THE SET POINT), THE DDC/EMS SHALL MODULATE THE LEAD PUMP VFD TO MAINTAIN CHILLER MINIMUM FLOW SET POINT AND MODULATE THE CHILLED WATER LOW FLOW BYPASS VALVE TO MAINTAIN CHILLED WATER SYSTEM PRESSURE SET POINT. THE DDC/EMS SHALL ALTERNATE WHICH PUMP IS LEAD / LAG BASED ON RUN TIME (EVERY 50 HOURS, ADJ.). PUMP SHUTDOWN TO BE DELAYED 5 MINUTES (ADJ.) AFTER CHILLER SHUTDOWN TO AVOID CHILLER FREEZE PROTECTION LOCKOUT. WHEN OUTDOOR TEMPERATURE IS BELOW 34°F, PUMPS SHALL OPERATE FOR FREEZE PROTECTION.

3. WATER CHILLER: MUST BE INTERLOCKED WITH ASSOCIATED CHILLER PUMPS THROUGH THE DDC/EMS SIGNAL WITH A 5 MINUTE DELAY (ADJ.) AFTER PROVING CHILLER PUMP FLOW. LEAVING CHILLED WATER SUPPLY TEMPERATURE SET POINT SHALL BE SET AND ADJUSTABLE THROUGH THE DDC/EMS. THE CHILLER SHALL MODULATE COMPRESSORS THROUGH THE SELF-CONTAINED FACTORY CONTROLS TO MAINTAIN CHILLED WATER SUPPLY TEMPERATURE SETPOINT.

4. TEMPERATURE RESET: THE CHILLED WATER TEMPERATURE SETPOINT SHALL BE RESET BASED ON DEMAND FROM THE AIR HANDLER COIL CONTROL VALVES. MINIMUM SUPPLY TEMPERATURE SET POINT SHALL BE 40°F (ADJ.) MAXIMUM SUPPLY TEMPERATURE SETPOINT SHALL BE 55°F.



AIR COOLED CHILLER CONTROL DIAGRAM

N.T.S. | 1

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EMS CONTROL SCHEDULES

PROJECT NO.
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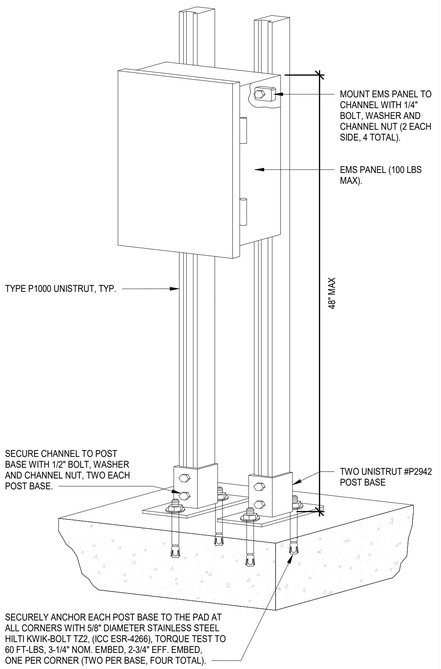
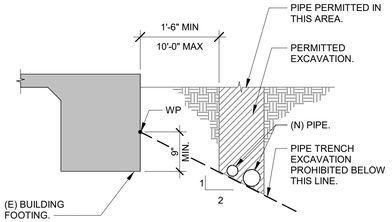
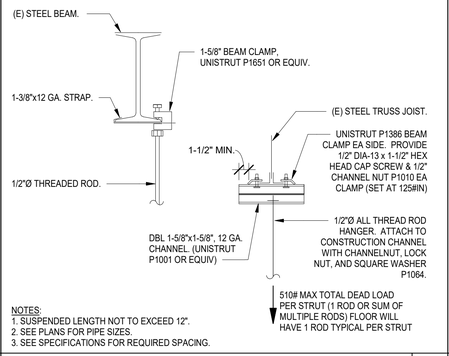


EMS PANEL SUPPORT N.T.S. 18

NOTES:
1. PIPES SHOWN, CONDUITS SIMILAR

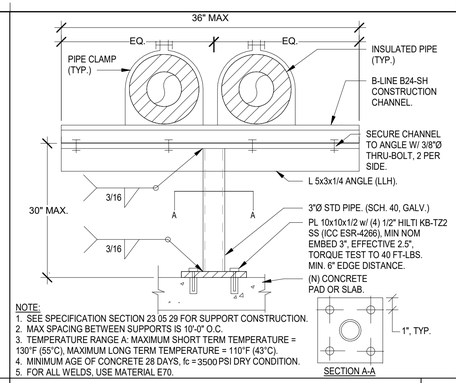


PIPES ADJACENT TO (E) FOOTING N.T.S. 13



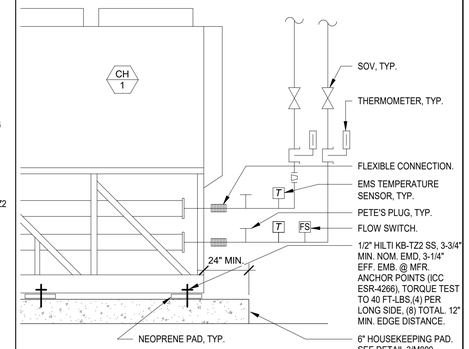
NOTES:
1. SUSPENDED LENGTH NOT TO EXCEED 12".
2. SEE PLANS FOR PIPE SIZES.
3. SEE SPECIFICATIONS FOR REQUIRED SPACING.

UPPER ATTACHMENT N.T.S. 9

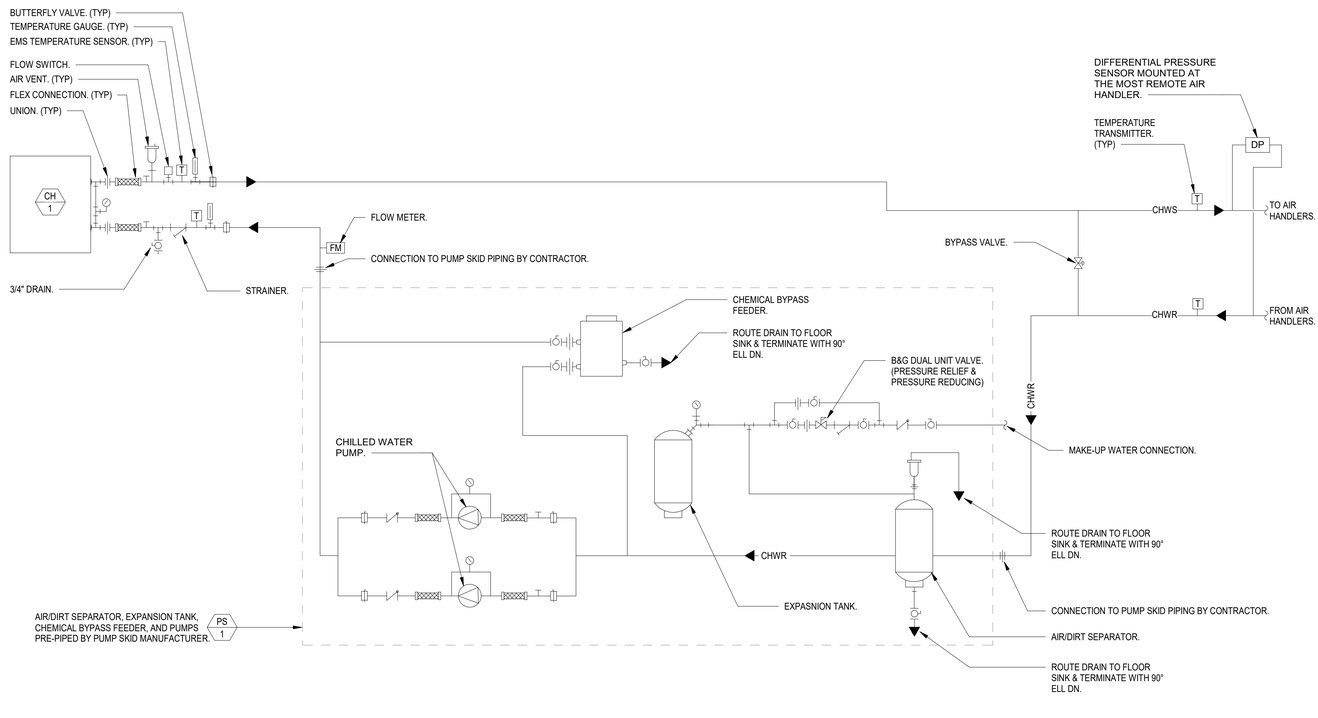


NOTE:
1. SEE SPECIFICATION SECTION 23 05 29 FOR SUPPORT CONSTRUCTION.
2. MAX SPACING BETWEEN SUPPORTS IS 10'-0" O.C.
3. TEMPERATURE RANGE A: MAXIMUM SHORT TERM TEMPERATURE = 130°F (55°C), MAXIMUM LONG TERM TEMPERATURE = 110°F (43°C).
4. MINIMUM AGE OF CONCRETE 28 DAYS, f_c = 3500 PSI DRY CONDITION.
5. FOR ALL WELDS, USE MATERIAL E70.

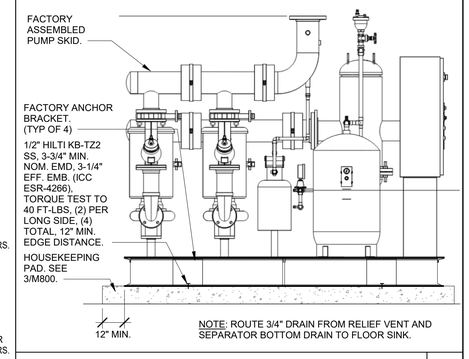
PIPE SUPPORT N.T.S. 5



WATER CHILLER - AIR COOLED N.T.S. 1

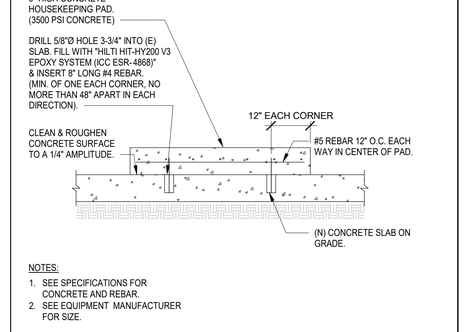


CHILLER SYSTEM DIAGRAM N.T.S. 7



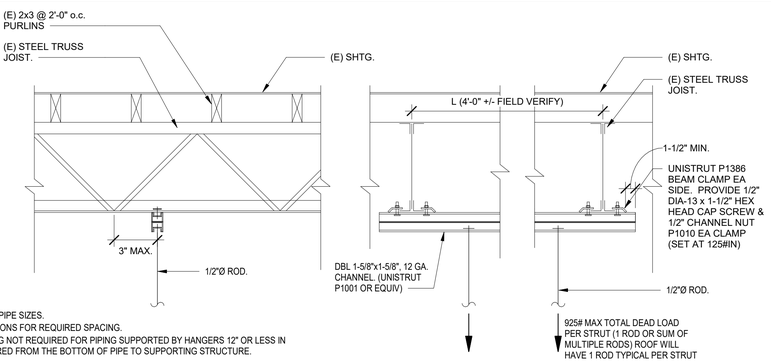
NOTE: ROUTE 3/4" DRAIN FROM RELIEF VENT AND SEPARATOR BOTTOM DRAIN TO FLOOR SINK.

PUMP SKID N.T.S. 2



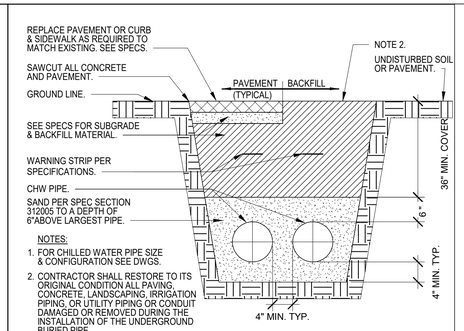
NOTES:
1. SEE SPECIFICATIONS FOR CONCRETE AND REBAR.
2. SEE EQUIPMENT MANUFACTURER FOR SIZE.

HOUSEKEEPING PAD N.T.S. 3



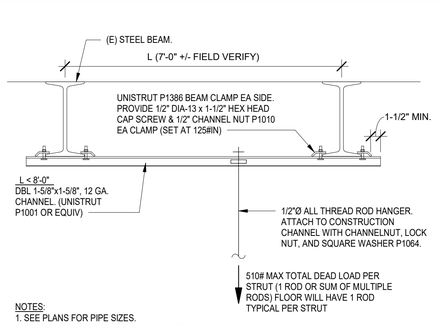
NOTES:
1. SEE PLANS FOR PIPE SIZES.
2. SEE SPECIFICATIONS FOR REQUIRED SPACING.
3. SEISMIC BRACING NOT REQUIRED FOR PIPING SUPPORTED BY HANGERS 12" OR LESS IN LENGTH MEASURED FROM THE BOTTOM OF PIPE TO SUPPORTING STRUCTURE.

UPPER ATTACHMENT @ ROOF FRAMING N.T.S. 16



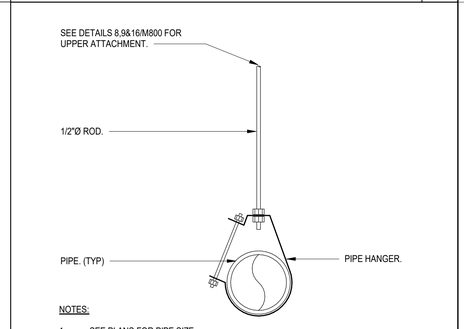
NOTES:
1. FOR CHILLED WATER PIPE SIZE & CONFIGURATION SEE DWGS.
2. CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION ALL PAVING, CONCRETE, LANDSCAPING, IRRIGATION PIPING, OR UTILITY PIPING OR CONDUIT DAMAGED OR REMOVED DURING THE INSTALLATION OF THE UNDERGROUND BURIED PIPE.

UTILITY TRENCH DETAIL N.T.S. 12



NOTES:
1. SEE PLANS FOR PIPE SIZES.
2. SEE SPECIFICATIONS FOR REQUIRED SPACING.
3. SEISMIC BRACING NOT REQUIRED FOR PIPING SUPPORTED BY HANGERS 12" OR LESS IN LENGTH MEASURED FROM THE BOTTOM OF PIPE TO SUPPORTING STRUCTURE.

UPPER ATTACHMENT @ FLR FRAMING N.T.S. 8



NOTES:
1. SEE PLANS FOR PIPE SIZE.
2. MAXIMUM HANGER LENGTH SHALL BE 12" FROM STRUCTURE TO TOP OF PIPE.
3. SEE SPECIFICATIONS FOR REQUIRED SPACING.

PIPE SUPPORT HANGER N.T.S. 4

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DRAWING TITLE
MECHANICAL DETAILS

PROJECT NO.
22-12358

DRAWING
M800

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.			
Project Name:	WHCC Coalinga Chiller Replacement	**Report Page:**	**(Page 1 of 6)**
Project Address:		**Date Prepared:**	2022-11-22T18:15:42-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Coalinga	04	Total Conditioned Floor Area	0
02	Climate Zone	13	05	Total Unconditioned Floor Area	1190
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐ Office (B)	☐ Retail (M)	☐ Non-refrigerated Warehouse (S)			
☐ Hotel/ Motel Guest Rooms (R-1)	☒ School (E)	☐ Healthcare Facility (I)			
☐ High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒ Other (Write In)	Classroom Building;		

B. PROJECT SCOPE
This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☐ Heating Air System	☐ Water Economizer	☐ Air Economizer
☐ Cooling Air System	☒ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☒ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☒ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	WHCC Coalinga Chiller Replacement	**Report Page:**	**(Page 2 of 6)**
Project Address:		**Date Prepared:**	2022-11-22T18:15:42-05:00

C. COMPLIANCE RESULTS
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND	Yes	AND		AND	Yes	AND		AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

Chiller Efficiency and Controls

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Equipment Type		Size Category[1] (tons)	Chiller Efficiency "Path B" Exception per §140.4(l)	Rated Efficiencies	Minimum Efficiencies Required per §110.2	Efficiency Unit	Controls per §140.4(k)	
								Isolation Valve	Temperature Reset
CH-1	Air Cooled: Condenser elec. operated	1	>=150 and <300	No Exception Taken	10.1	>=9.700	EER	NA: only 1 chiller in plant	NA: <=500,00 Btu/h (41.67 tons)
					16.8	>=16.100	IPLV		

[1]*FOOTNOTES: Chilled water plants shall not have more than 300 tons provided by air-cooled chillers. Exceptions may apply per [dLt24ref/]140.4(j).*

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	WHCC Coalinga Chiller Replacement	**Report Page:**	**(Page 3 of 6)**
Project Address:		**Date Prepared:**	2022-11-22T18:15:42-05:00

G. PUMPS
This table is used to demonstrate compliance with Prescriptive hydronic system requirements found in §140.4(k) applicable to pumps < 5hp.

01	02	03	04	05	06	07	08
Name or Item Tag	Equipment Type	Qty	HP	Controls per §140.4(k)			
				Variable Flow	Hydronic Heat Pump Isolation	VSD on Pumps > 5HP	Differential Pressure Sensor
Chilled Water Pumps	Primary chilled water	2	10	Yes		Yes	Required

H. FAN SYSTEMS & AIR ECONOMIZERS
This section does not apply to this project.

I. SYSTEM CONTROLS
This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
Chilled Water System	Multi-zone w/ DDC to zone	> 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*
*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)*

J. VENTILATION AND INDOOR AIR QUALITY
This section does not apply to this project.

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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	WHCC Coalinga Chiller Replacement	**Report Page:**	**(Page 4 of 6)**
Project Address:		**Date Prepared:**	2022-11-22T18:15:42-05:00

K. TERMINAL BOX CONTROLS
This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)
This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

01		
01	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Mandatory Pipe Insulation

02	03	04	05	06	07	08	09	10
System Type	Nominal Pipe Diameter (in)	Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hr per ft² per °F)	Insulation Mean Rating Temp. (°F)	Min. Insulation Thickness Required per Table 120.3-A (in)	Min. Insulation Thickness Required per §120.3(c)2 (in)	Insulation Thickness per Design (in)	Exception to §120.3 (if applicable)
Space cooling	4 to <8	40-60	0.21 - 0.27	75	1		1	No exception taken

M. COOLING TOWERS
This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	WHCC Coalinga Chiller Replacement	**Report Page:**	**(Page 5 of 6)**
Project Address:		**Date Prepared:**	2022-11-22T18:15:42-05:00

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-08-A Valve Leakage Test	Chilled Water Pumps
NRCA-MCH-09-A Supply Water Temperature Reset Controls	CH-1
NRCA-MCH-10-A Hydronic System Variable Flow Controls	Chilled Water Pumps
NRCA-MCH-11-A Automatic Demand Shed Controls	Chilled Water System
NRCA-MCH-18-A Energy Management Control Systems	Chilled Water System

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	
03		04
Mandatory Measure		**Plan sheet or construction document location**
Pipe Insulation per §120.3(b)		Specification Section 230700

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	WHCC Coalinga Chiller Replacement	**Report Page:**	**(Page 6 of 6)**
Project Address:		**Date Prepared:**	2022-11-22T18:15:42-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Matt Soderstrom	Documentation Author Signature: Matt Soderstrom
Company: TETER	Signature Date: 11/22/22
Address: 7535 N Palm Ave #201	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Fresno, CA 93711	Phone: 559-437-0887

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Steven Jones	Responsible Designer Signature: Steven Jones
Company: TETER	Date Signed: 11/22/22
Address: 7535 N Palm Ave #201	License: M32797
City/State/Zip: Fresno, CA 93711	Phone: 559-437-0887

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TETER, LLP
FRESNO HEADQUARTERS
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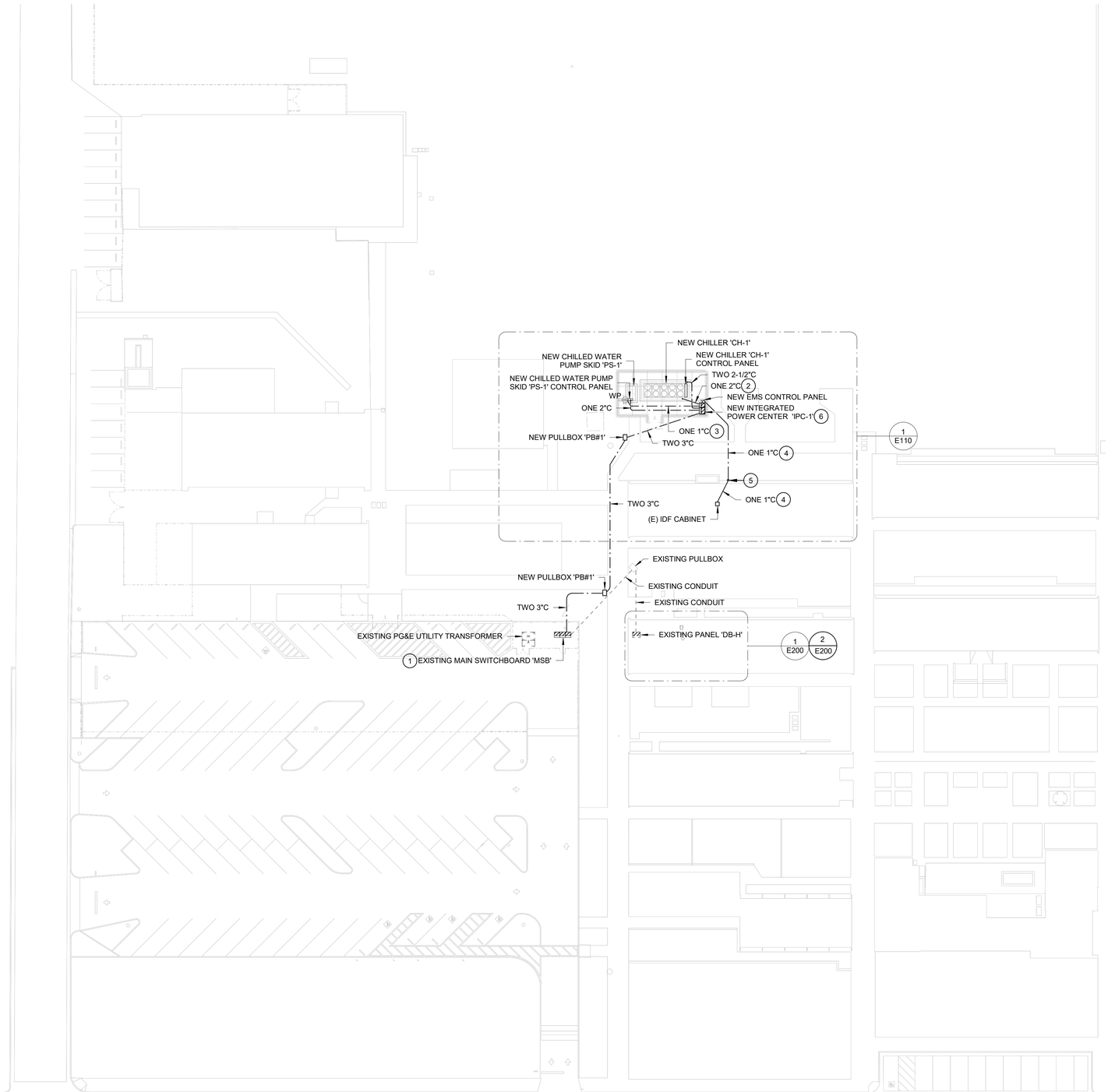
COALINGA, CA

DRAWING TITLE
TITLE 24 DOCUMENTATION

PROJECT NO.
22-12358

DRAWING
M900



NORTH

ELECTRICAL SITE PLAN

1" = 30'-0"

1

KEYNOTES

1. PROVIDE ONE 600V, 600A, 3-POLE CIRCUIT BREAKER AT EXISITNG MAIN SWITCHBOARD 'MSB'.
2. PROVIDE ONE 2"C, 2#10 CU THWN AND 1#10 CU GND FOR CONNECTION TO 115V, SINGLE PHASE EVAPORATOR HEAT TRACE FOR NEW CHILLER 'CH-1'.
3. PROVIDE ONE 1"C, 2#12 CU THWN AND 1#12 CU GND FOR CONNECTION TO SERVICE WEATHERPROOF GFCI RECEPTACLE WITH IN USE TYPE COVER.
4. PROVIDE ONE 1"C WITH ONE 4 UTP #24 AWG CATEGORY 6 FILLED OUTDOOR CABLE (MANUFACTURER & CATALOG NUBMER: COMMSCOPE MEDIA 6 #6NF4+ (OUTER JACKET COLOR BLACK) OR EQUIIVALENT) FOR CONNECTION TO EMS CONTROL PANEL FROM EXISTING IDF RACK IN BUILDING C WING.
5. PROVIDE 12"X12"X6" WEATHERPRROF PULLCAN.
6. NEW INTEGRATED POWER CENTER 'IPC-1' WILL BE PAD MOUNTED PER PER DETAIL 1/E600.

GENERAL NOTES

A. PROVIDE ELECTRICAL FEEDERS PER SINGLE LINE DIAGRAM.

B. PROVIDE PULLBOXES PER DETAIL 4/E600.

C. SITE CONDUITS OF TRADE SIZE 2" AND LARGER SHALL BE GROUPED AND INSTALLED PER DETAIL 3/E600. SITE CONDUITS SHALL BE INSTALLED A MINIMUM OF 36" BELOW FINAL GRADE TO TOP OF CONDUIT.

D. SPECIAL PRECAUTION SHALL BE TAKEN WHEN TRENCHING TO LOCATE, PROTECT AND PRESERVE EXISTING UNDERGROUND UTILITIES. ANY DAMAGE CAUSED DURING THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED.

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REGISTERED PROFESSIONAL ENGINEER
No. E 17773
Exp. 06-30-24
ELECTRICAL
STATE OF CALIFORNIA

TETER, LLP
ARCHITECTS ENGINEERS CONSULTANTS
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

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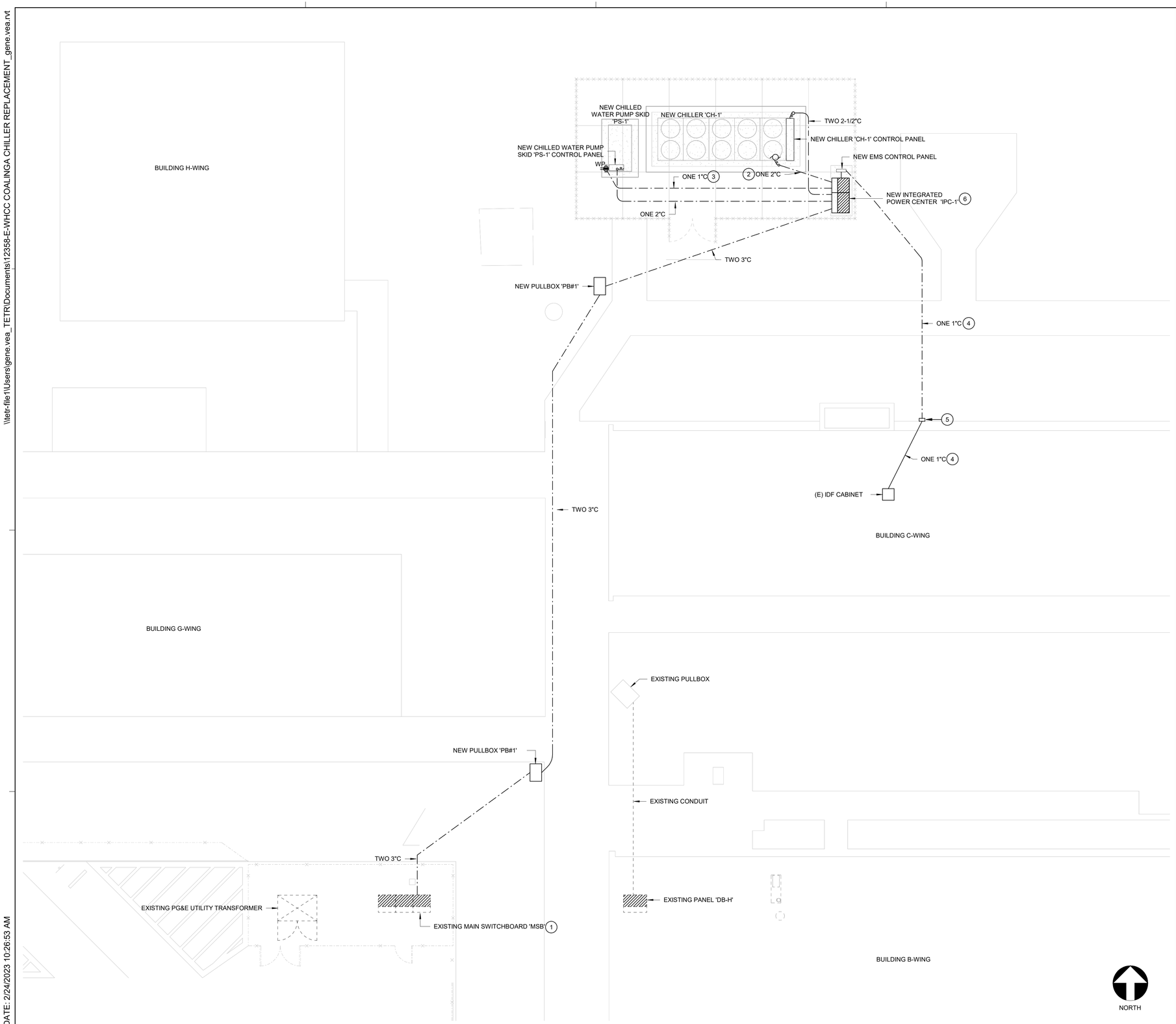
CHILLER REPLACEMENT
300 CHERRY LANE
COALINGA, CA

DRAWING TITLE
ELECTRICAL SITE PLAN

PROJECT NO.
22-12358

DRAWING
E100



KEYNOTES

1. PROVIDE ONE 600V, 600A, 3-POLE CIRCUIT BREAKER AT EXISITNG MAIN SWITCHBOARD 'MSB'.
2. PROVIDE ONE 2"C, 2#10 CU THWN AND 1#10 CU GND FOR CONNECTION TO 115V, SINGLE PHASE EVAPORATOR HEAT TRACE FOR NEW CHILLER 'CH-1'.
3. PROVIDE ONE 1"C, 2#12 CU THWN AND 1#12 CU GND FOR CONNECTION TO SERVICE WEATHERPROOF GFCI RECEPTACLE WITH IN USE TYPE COVER.
4. PROVIDE ONE 1"C WITH ONE 4 UTP #24 AWG CATEGORY 6 FILLED OUTDOOR CABLE (MANUFACTURER & CATALOG NUBMER: COMMSCOPE MEDIA 6 #6NF4+ (OUTER JACKET COLOR BLACK) OR EQUIIVALENT) FOR CONNECTION TO EMS CONTROL PANEL FROM EXISTING IDF RACK IN BUILDING C WING.
5. PROVIDE 12"X12"X6" WEATHERPRROF PULLCAN.
6. NEW INTEGRATED POWER CENTER 'IPC-1' WILL BE FLOOR MOUNTED PER PER DETAIL 1/E600.

GENERAL NOTES

A. PROVIDE ELECTRICAL FEEDERS PER SINGLE LINE DIAGRAM.

B. PROVIDE PULLBOXES PER DETAIL 4/E600.

C. SITE CONDUITS OF TRADE SIZE 2" AND LARGER SHALL BE GROUPED AND INSTALLED PER DETAIL 3/E600. SITE CONDUITS SHALL BE INSTALLED A MINIMUM OF 36" BELOW FINAL GRADE TO TOP OF CONDUIT.

D. SPECIAL PRECAUTION SHALL BE TAKEN WHEN TRENCHING TO LOCATE, PROTECT AND PRESERVE EXISTING UNDERGROUND UTILITIES. ANY DAMAGE CAUSED DURING THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED.

ENLARGED ELECTRICAL SITE PLAN — 1/8" = 1'-0" — 1

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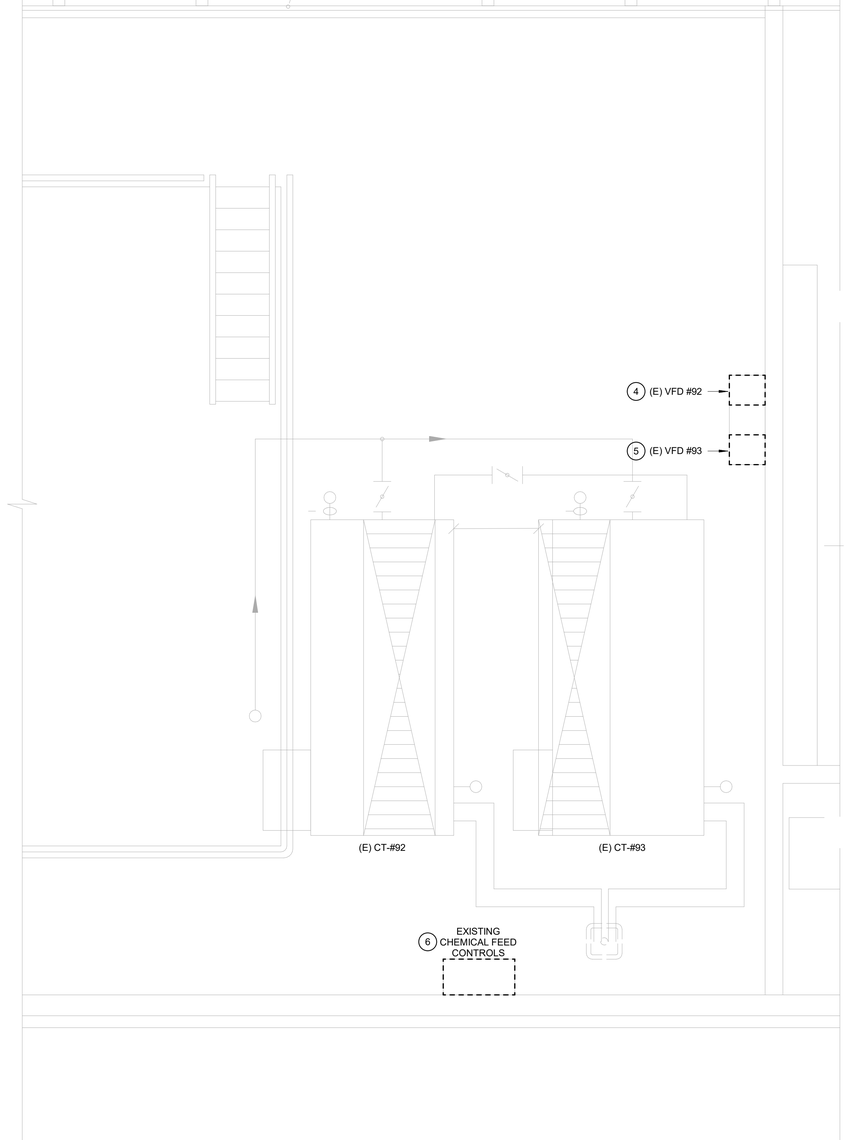
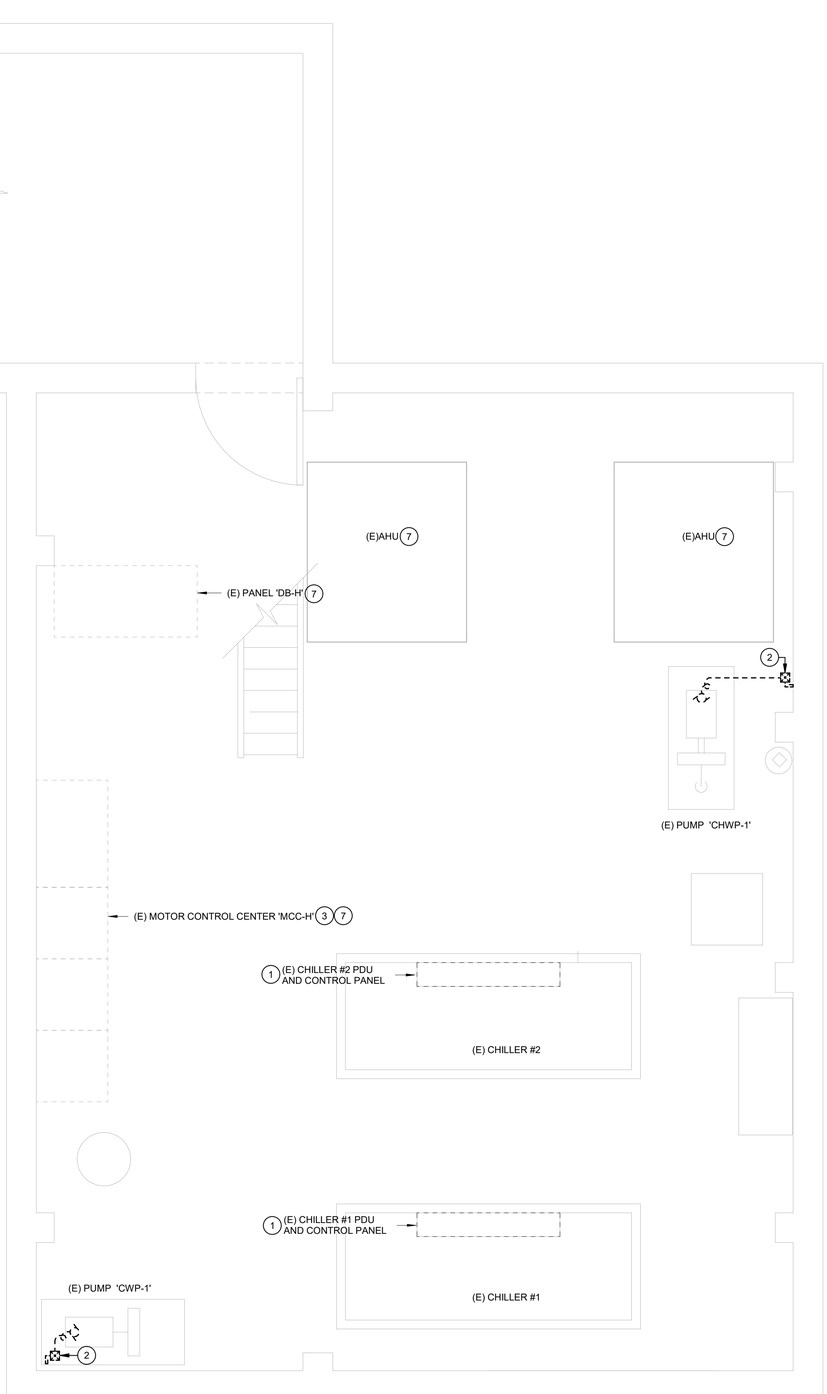
ENLARGED ELECTRICAL SITE PLAN

PROJECT NO.
22-12358

DRAWING
E110



ELECTRICAL DEMOLITION PLAN - B-WING FIRST FLOOR 1/2" = 1'-0" 2



ELECTRICAL DEMOLITION PLAN - B-WING BASEMENT 1/2" = 1'-0" 1

KEYNOTES

1. DISCONNECT EXISTING CHILLER PDU. REMOVE EXISTING CONDUCTORS TO SOURCE CIRCUIT BREAKER AT EXISTING MOTOR CONTROL CENTER 'MCC-H'. REMOVE EXISTING CONDUIT TO EXISTING MOTOR CONTROL CENTER 'MCC-H'. RE-LABEL CIRCUIT BREAKER AS SPARE.
2. DISCONNECT EXISTING PUMP. DISCONNECT AND REMOVE EXISTING DISCONNECT, EXISTING BRANCH CIRCUIT TO SOURCE CIRCUIT BREAKER, EXISTING FLEX CONDUIT TO PUMP, AND EXISTING CONDUIT TO SOURCE PANEL.
3. PROVIDE CAP AND SEAL TO PENETRATION IN EXISTING PANEL CAUSED BY REMOVAL OF CONDUIT.
4. DISCONNECT EXISTING VFD #92. REMOVE EXISTING CONDUCTORS AND CONDUIT TO SOURCE CIRCUIT BREAKER IN MOTOR CONTROL CENTER 'MCC-H'. DISCONNECT AND REMOVE EXISTING CONDUIT AND CONDUCTORS TO CONTROL TOWER CT-#92. REMOVE EXISTING VFD#92 AND FURNISH TO OWNER.
5. DISCONNECT EXISTING VFD #93. REMOVE EXISTING CONDUCTORS AND CONDUIT TO SOURCE CIRCUIT BREAKER IN MOTOR CONTROL CENTER 'MCC-H'. DISCONNECT AND REMOVE EXISTING CONDUIT AND CONDUCTORS TO CONTROL TOWER CT-#93. REMOVE EXISTING VFD #93 AND FURNISH TO OWNER.
6. DISCONNECT EXISTING CHEMICAL FEEDER CONTROLS. REMOVE EXISTING CONDUIT AND CONDUTORS TO SOURCE CIRCUIT BREAKER.
7. EXISTING AIR HANDLING UNIT (AHU) AND PANELS SHALL REMAIN.

DEMOLITION NOTES

A. ELECTRICAL FACILITIES SHOWN DASHED ARE EXISTING:
   1. THOSE SHOWN LIGHTWEIGHT (FADED) SHALL REMAIN AND REQUIRE MODIFICATION AS NOTED.
   2. THOSE SHOWN HEAVYWEIGHT (DARK) REQUIRE REMOVAL OR RELOCATION AS NOTED.

B. EXISTING ELECTRICAL FACILITIES AND CIRCUITING SHOWN ARE BASED ON LIMITED RECORD DRAWINGS AND LIMITED SITE VISITS. THE DRAWINGS MAY NOT ACCURATELY REPRESENT ACTUAL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND RING OUT EXISTING CIRCUITS TO DETERMINE EXACT ROUTING.

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REGISTERED PROFESSIONAL ENGINEER
No. E 17773
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ELECTRICAL
STATE OF CALIFORNIA

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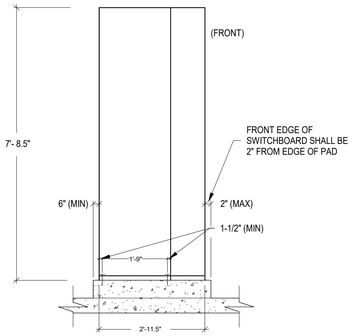
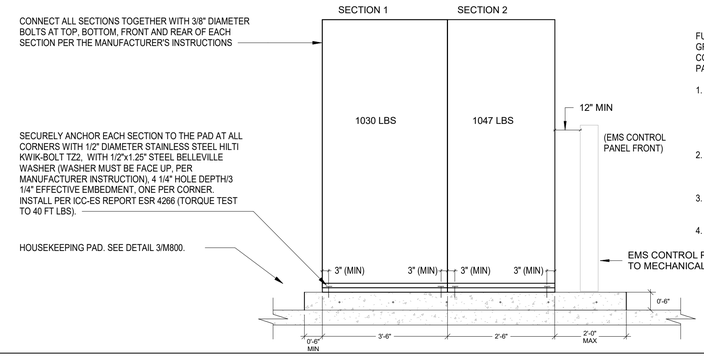
DRAWING TITLE
ELECTRICAL PLAN - B-WING
DEMOLITION

PROJECT NO.
22-12358

DRAWING
E200

PLOT DATE: 2/24/2023 10:26:53 AM

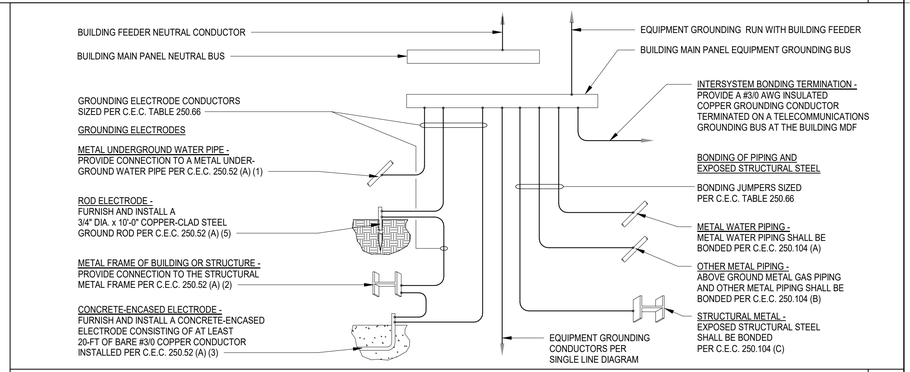




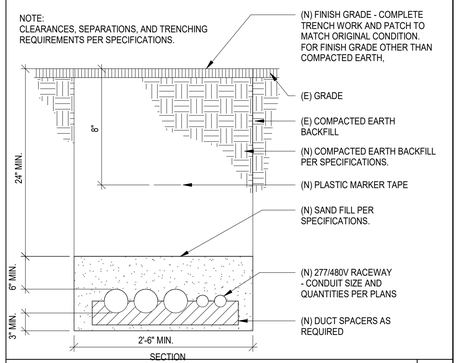
FURNISH AND INSTALL ALL OF THE FOLLOWING GROUNDING ELECTRODES WITHIN THE CONCRETE SERVICE ENTRANCE EQUIPMENT PAD:

1. A CONCRETE-ENCASED ELECTRODE CONSISTING OF AT LEAST 20-FT OF BARE #3/0 COPPER CONDUCTOR AND BONDED TO THE SERVICE ENTRANCE EQUIPMENT GROUNDING BUS.
2. A 3/4"-DIAMETER x 10-FT LENGTH, COPPER-CLAD STEEL GROUNDING ROD.
3. BOND STRUCTURAL TO THE GROUNDING ROD
4. CONNECTION TO U.G. WATER PIPE

INTEGRATED POWER CENTER 'IPC-1' ELEVATION — N.T.S. — 1



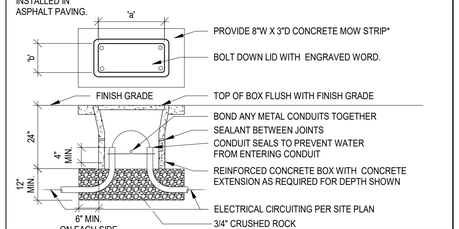
REMOTE BUILDING GROUNDING ELECTRODE SYSTEM — N.T.S. — 2



TYPICAL TRENCH SECTION — N.T.S. — 3

*NOTE:
WHERE PULLBOX IS ADJACENT TO CONCRETE WALK, EXTEND MOWSTRIP TO CONNECT WITH WALK. CONCRETE MOW STRIP IS NOT REQUIRED ON PULLBOXES INSTALLED IN ASPHALT PAVING.

	DIMENSION 'a'	DIMENSION 'b'	ENGRAVING	LID TYPE
PB#1	36"	24"	ELECTRICAL	CONCRETE



U.G. PULLBOX — N.T.S. — 4

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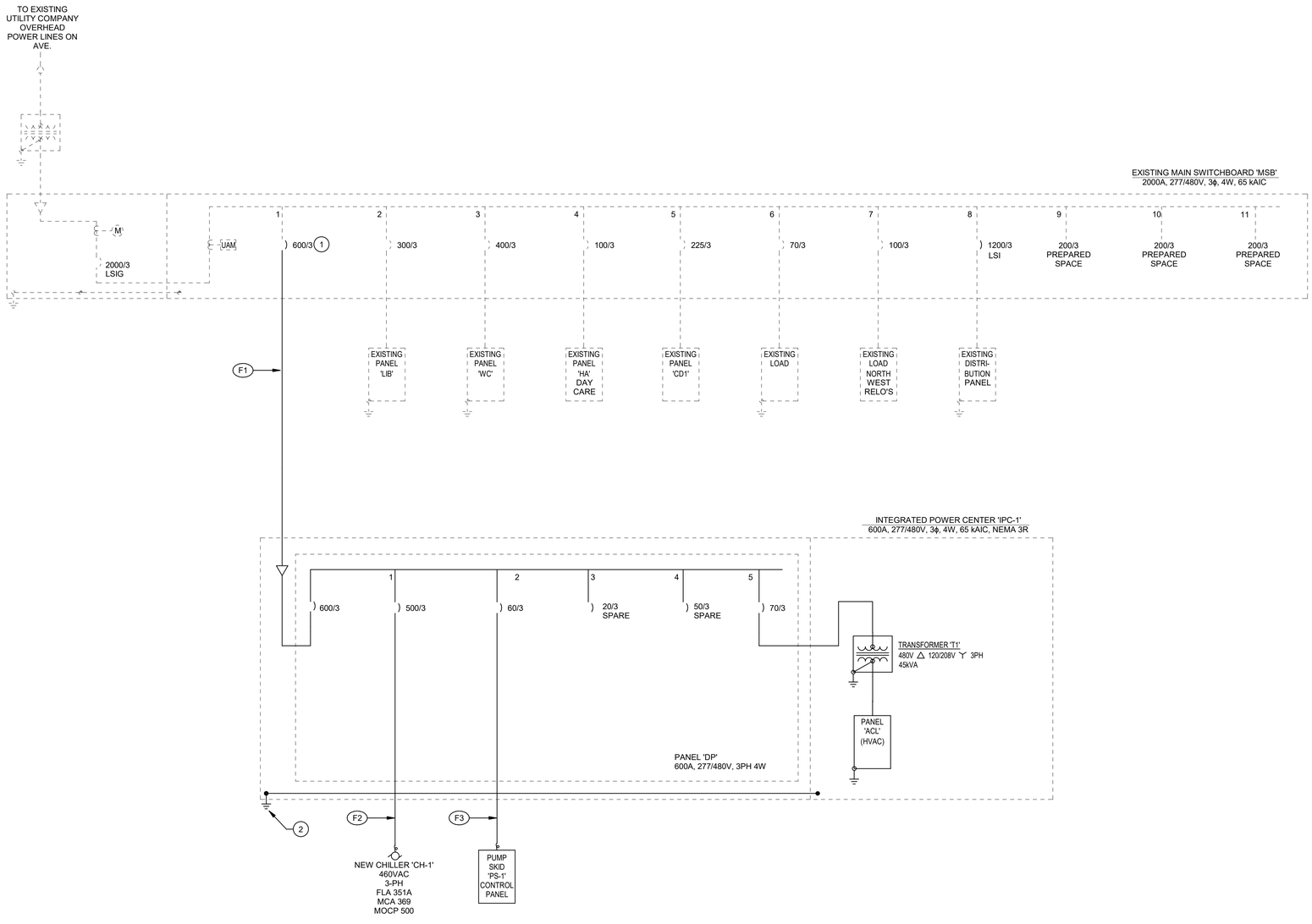
WHCCD COALINGA
CHILLER REPLACEMENT
300 CHERRY LANE
COALINGA, CA

DRAWING TITLE
ELECTRICAL DETAILS

PROJECT NO.
22-12358

DRAWING
E600



FEEDER SCHEDULE

FEEDER	ORIGIN	DESTINATION	CONDUIT	CONDUCTORS	CALCULATED VOLTAGE DROP	REMARKS
F1	MAIN SWITCHBOARD 'MSB'	INTEGRATED POWER CENTER 'IPC-1'	TWO 3"C	4#350 KCMIL CU THWN, 1#1 CU GND IN EACH CONDUIT	0.91%	TWO PARALLEL FEEDERS
F2	PANELBOARD "DP" (INSIDE 'IPC-1)	NEW CHILLER 'CH-1'	TWO 2-1/2"C	4#250 KCMIL CU THWN, 1#2 CU GND IN EACH CONDUIT	0.19%	TWO PARALELL FEEDERS
F3	PANELBOARD "DP" (INSIDE 'IPC-1)	PUMP SKID 'PS-1' CONTROL PANEL	ONE 2"C	3#6 CU THWN, 1#8 CU GND	0.23%	FEEDER

KEYNOTES

1. PROVIDE 600A, 3P CIRCUIT BREAKER AND MOUNTING HARDWARE IN EXISTING MSB TO MATCH EXISTING BREAKERS.
2. SYSTEM GROUND PER DETAIL 2/E600.

GENERAL NOTES

A. CIRCUIT BREAKERS SUPPLYING CLASS 1 TRANSFORMERS SHALL BE LOCKABLE IN THE OFF POSITION.

B. ARC-FLASH HAZARD WARNING LABELS SHALL BE PROVIDED AT ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS AND PANELBOARDS IN ACCORDANCE WITH CEC 110.16.

C. CIRCUIT IDENTIFICATION - A TYPEWRITTEN CIRCUIT DIRECTORY SHALL BE PROVIDED AT EACH PANELBOARD AND SWITCHBOARD IN ACCORDANCE WITH CEC ARTICLE 408.4(A). THE CONTRACTOR SHALL DEVELOP AND PREPARE THE CIRCUIT IDENTIFICATION DESCRIPTION BASED ON THE AS-BUILT CONDITION.

D. SOURCE OF SUPPLY IDENTIFICATION - ALL SWITCHBOARDS, PANELBOARDS AND TRANSFORMERS SHALL HAVE A TYPEWRITTEN LABEL APPLIED INDICATING THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES PER CEC ARTICLE 408.4(B).

SINGLE LINE DIAGRAM N.T.S. 1

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 03/16/2023

MARK	DATE	DESCRIPTION
A	3/1/2022	DSA BACKCHECK

REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
No. E 17773
CERTIFICATE OF AUTHORITY
EXPIRES 06-30-24
STATE OF CALIFORNIA

TETER, LLP
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED
TETER

WHCCD COALINGA
CHILLER REPLACEMENT
300 CHERRY LANE
COALINGA, CA

DRAWING TITLE
SINGLE LINE DIAGRAM

PROJECT NO.
22-12358

DRAWING
E700

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PANEL: MSB

EXISTING MAIN SWITCHBOARD

BUS: 2000 AMP BUS
VOLTAGE: 277/480V, 3 PH, 4 W
NEUTRAL: 100% RATED NEUTRAL

MAIN: 2000A CB

LOCATION: ELECTRICAL YARD
MOUNTING: FLOOR
ENCLOSURE: NEMA 3R

CIRCUIT CKT NO.	CIRCUIT PNL SPACE	... AMP	POLE	SERVES	VOLT-AMPERES LOAD	A	B	C
1	1	600	3	NEW INTEGRATED POWER CENTER 'IPC-1' (NEW MECHANICAL YARD)	0	0		
					0		0	
					0			0
2	2	300	3	EXISTING PANEL 'LIB'	0	0		
					0		0	
					1000			1000
3	3	400	3	EXISTING PANEL 'WC'	0	0		
					0		0	
					0			0
4	4	100	3	EXISTING PANEL 'HA' (DAYCARE)	0	0		
					0		0	
					0			0
5	5	225	3	EXISTING PANEL 'CD1'	0	0		
					0		0	
					0			0
6	6	70	3	EXISTING LOAD (DAY CARE)	0	0		
					0		0	
					0			0
7	7	100	3	EXISTING LOAD (NORTH WEST RELOCATABLES)	0	0		
					0		0	
					0			0
8	8	1200	3	EXISTING DISTRIBUTION PANEL	131722	131722		
					129742		129742	
					130022			130022
				TOTAL CONNECTED LOAD (VA) :		131722	129742	131022
				25% LCL/LML (VA) :		0	0	0
				TOTAL CALCULATED LOAD (VA) :		131722	129742	131022
				TOTAL CALCULATED LOAD (AMPS) :		475.5	468.4	473.0

(2)

PANEL: DP

NEW I-LINE PANELBOARD

BUS: 800 AMP BUS
VOLTAGE: 277/480V, 3 PH, 4 W
NEUTRAL: 100% RATED NEUTRAL

MAIN: 600A CB GFP
TRIP: ELECTRONIC LSIG
A.I.C.: 65 kAIC

LOCATION: IPC-1' SECTION 1/MECHANICAL YARD
MOUNTING: INTEGRAL IN 'IPC-1'
ENCLOSURE: NEMA 3R

CIRCUIT CKT NO.	CIRCUIT PNL SPACE	... AMP	POLE	SERVES	VOLT-AMPERES LOAD	A	B	C
1	1	500	3	NEW CHILLER 'CH-1'	97269	97269		
					97269		97269	
					97269			97269
2	2	70	3	TRANSFORMER 'T1' (PANEL 'ACL')	2700	2700		
					720		720	
					1000			1000
3	3	60	3	NEW WATERCHILLED PUMP SKID 'PS-1' CONTROL PANEL	7436	7436		
					7436		7436	
					7436			7436
4	4	50	3	SPARE	0	0		
					0		0	
					0			0
5	5	20	3	SPARE	0	0		
					0		0	
					0			0
6	6	20	3	SPACE	0	0		
					0		0	
					0			0
7	7	20	3	SPACE	0	0		
					0		0	
					0			0
8	8	20	3	SPACE	0	0		
					0		0	
					0			0
				TOTAL CONNECTED LOAD (VA) :		107405	105425	105705
				25% LCL/LML (VA) :		24317	24317	24317
				TOTAL CALCULATED LOAD (VA) :		131722	129742	130022
				TOTAL CALCULATED LOAD (AMPS) :		475.5	468.4	469.4

(1)

PANEL: ACL

NEW RECEPTACLE PANELBOARD

100 AMP BUS
120/208V, 3 PH, 4 W
100% RATED NEUTRAL

MAIN: 100A
TRIP: THERMAL-MAGNETIC
A.I.C.: 22000 A

LOCATION: IPC-1' SECTION 2/MECANICAL YARD
MOUNTING: INTEGRAL TO 'IPC-1' SECTION 2
ENCLOSURE: NEMA 3R

CIRCUIT CKT NO.	CIRCUIT PNL SPACE	BREAKER AMP	BREAKER POLE	SERVES	VOLT-AM... LOAD	A	B	C	LOAD	SERVES	BREAKER AMP	BREAKER POLE	CIRCUIT PNL SPACE	CIRCUIT CKT NO.
1	1	30	1	NEW EVAPORATOR HEAT TRACE	2700	2700			0	SPARE	20	1	2	2
3	3	20	1	NEW RECEPTACLE	720		720		0	SPARE	20	1	4	4
5	5	20	1	NEW EMS CONTROL PANEL	1000			1000	0	SPARE	20	1	6	6
7	7	20	1	SPARE	0	0			0	SPARE	20	1	8	8
9	9	20	1	SPARE	0		0		0	SPARE	20	1	10	10
11	11	20	1	SPARE	0			0	0	SPARE	20	1	12	12
13	13	20	1	SPARE	0	0			0	SPARE	20	1	14	14
15	15	20	1	SPARE	0		0		0	SPARE	20	1	16	16
17	17	20	1	SPARE	0			0	0	SPARE	20	1	18	18
19	19	20	1	SPARE	0	0			0	SPARE	20	1	20	20
21	21	20	1	SPARE	0		0		0	SPARE	20	1	22	22
23	23	20	1	SPARE	0			0	0	SPARE	20	1	24	24
25	25	20	1	SPARE	0	0			0	SPARE	20	1	26	26
27	27	20	1	SPARE	0		0		0	SPARE	20	1	28	28
29	29	20	1	SPARE	0			0	0	SPARE	30	1	30	30
31	31	20	1	SPARE	0	0			0	SPARE	20	1	32	32
33	33	20	1	SPARE	0		0		0	SPARE	20	1	34	34
35	35	20	1	SPARE	0			0	0	SPARE	20	1	36	36
37	37	20	1	SPARE	0	0			0	SPARE	20	1	38	38
39	39	20	1	SPARE	0		0		0	SPARE	20	1	40	40
41	41	20	1	SPARE	0			0	0	SPARE	20	1	42	42
				TOTAL CONNECTED LOAD (VA) :		2700	720	1000						
				DEMAND FACTOR FOR RECEPTACLES >...		0	0	0						
				TOTAL CALCULATED LOAD (VA) :		2700	720	1000	TOTAL CALCULATED LOAD FOR PANEL:					
				TOTAL CALCULATED LOAD (AMPS) :		22.5	6.0	8.3	4420 VA					

KEYNOTES

1. PROVIDE CIRCUIT BREAKER WITH PAD LOCKABLE KIT.
2. PROVIDE NEW 600A, 3-POLE CIRCUIT BREAKER AND MOUNTING HARDWARE. MATCH EXISTING CIRCUIT BREAKERS (GENERAL ELECTRIC AV-LINE SWITCHBOARD).

PANEL SCHEDULES N.T.S. 4

CODES, RULES & REGULATIONS

ALL WORK SHOWN HEREIN SHALL COMPLY WITH THE CURRENT REGULATIONS OF THE CALIFORNIA STATE FIRE MARSHAL, CALIFORNIA BUILDING CODE, TITLES 8 AND 19 THROUGH 24, SERVING UTILITY RULES AND ALL OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE INTERPRETED AS TO PERMIT ANY WORK NOT IN CONFORMANCE WITH THESE CODES, RULES AND REGULATIONS. WHERE WORK OF A GREATER DEGREE IS INDICATED IN THESE PLANS OR SPECIFICATIONS, THAT REQUIREMENT SHALL GOVERN SUCH WORK.

GENERAL NOTES (TYPICAL)

1. REFER TO THE MECHANICAL AND PLUMBING PLANS FOR THE EXACT LOCATION OF ALL MECHANICAL, HVAC AND PLUMBING EQUIPMENT.
2. VERIFY THE EXACT LOCATION OF ALL TRENCHING, BACKFILL AND SAWCUTTING REQUIREMENTS WITH THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY ROUGH -IN WORK FOR THIS EQUIPMENT.
3. COORDINATE ELECTRICAL PANEL AND TERMINAL CABINET LOCATIONS AND ROUTING OF UNDERGROUND CONDUITS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO COMMENCEMENT OF ANY ROUGH-IN WORK FOR THIS EQUIPMENT.
4. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES WHOSE WORK WILL IMPACT PLACEMENT OR CONNECTION OF ELECTRICALLY POWERED EQUIPMENT REGARDLESS OF RESPONSIBILITY FOR SUPPLYING EQUIPMENT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ELECTRICAL DISTRIBUTION SYSTEMS:

SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #OPM-0052-13, "SEISMIC BRACING AND SUPPORT SYSTEMS"

GENERAL NOTES N.T.S. 3

ELECTRICAL SYMBOL LEGEND

DIMENSIONS INDICATED ARE MEASURED TO CENTERLINE OF ENCLOSURE, UNLESS OTHERWISE NOTED
NOTE: SOME SYMBOLS SHOWN MAY NOT APPLY TO THIS PROJECT

SYMBOL	DESCRIPTION
E.P.	DENOTES EXPLOSION PROOF CONSTRUCTION
D.T.	DENOTES DUST TIGHT CONSTRUCTION
O.C.	DENOTES SPACING DIMENSION ON CENTER LINE OF DEVICE
R.T.	DENOTES RAIN TIGHT CONSTRUCTION
U.G.	DENOTES UNDERGROUND INSTALLATION
V.P.	DENOTES VAPOR TIGHT CONSTRUCTION
W.P.	DENOTES WEATHERPROOF CONSTRUCTION
W.T.	DENOTES WATER TIGHT CONSTRUCTION
A.F.F.	DENOTES ABOVE FINISHED FLOOR
A.F.G.	DENOTES ABOVE FINISHED GRADE
F.B.O.	DENOTES FURNISHED BY OTHERS
U.O.N.	DENOTES UNLESS OTHERWISE NOTED
(E)	DENOTES EXISTING TO REMAIN, NO WORK U.O.N.
(N)	DENOTES NEW
(1)	ELECTRICAL KEYNOTES: DENOTES KEYNOTE #1 OF NOTES ON SAME SHEET
A-3	CIRCUIT HOME RUN: DENOTES PANEL A, CKT. #3, - 3/4"C. MINIMUM, U.O.N.
1	CIRCUIT FEEDER: DENOTES FEEDER 'F1' PER SYSTEM FEEDER SCHEDULE
	CONDUIT IN ATTIC/WALL: DENOTES 3/4"C-2#12 AWG CU THWN, 1#12 CU GND, U.O.N.
	CONDUIT IN FLOOR/U.G.: DENOTES 3/4"C-2#12 AWG CU THWN, 1#12 CU GND, U.O.N.
	DENOTES EXISTING CONDUIT RUN TO REMAIN
	CONDUIT RUN - STUBBED, CAPPED AND LABELED.
	CONDUIT RUN: DENOTES 3/4"C - 3 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.
	CONDUIT RUN: DENOTES 3/4"C - 4 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.
	CONDUIT RUN: DENOTES 3/4"C - 5 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.
	CONDUIT RUN: DENOTES 1"C - 6 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.
	TAMPER-RESISTANT DUPLEX RECEPTACLE IN WALL @ +18", U.O.N.
	TAMPER-RESISTANT DUPLEX GFI RECEPTACLE, IN WALL @ 18", U.O.N.
WP	TAMPER-RESISTANT WEATHER RESISTANT (W/R) DUPLEX GFCI RECEPTACLE W/ W.P. COVER @+18", U.O.N.
	JUNCTION BOX
	JUNCTION BOX WITH FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT
	NON-FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH WITH INTEGRAL MAGNETIC STARTER
	ELECTRIC MOTOR
	EXHAUST FAN OR FRACTIONAL HORSEPOWER MOTOR
	SURFACE MOUNTED RACEWAY, MOUNT @ +18" A.F.F. U.O.N.
	ELECTRICAL PANELBOARD PER PLANS, FLUSH MOUNTED IN WALL (1)
	ELECTRICAL PANELBOARD PER PLANS, SURFACE MOUNTED ON WALL
a	SINGLE POLE AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N. — LOWER CASE SUBSCRIPT INDICATES CONTROLLED SWITCHLEG OF CIRCUIT.

ELECTRICAL SYMBOLS NOTES:

(1) IN ADDITION TO CONDUITS SHOWN ON PLANS, STUB ONE 1 1/4"C, ONE 1"C, AND TWO 3/4"C (SPARE) INTO ACCESSIBLE ATTIC SPACE ABOVE NEAREST T-BAR CEILING, U.O.N. THIS REQUIREMENT APPLIES TO EACH POWER AND LIGHTING PANEL INDICATED FLUSH MOUNTED ON POWER PLAN.

SYMBOL LEGEND & NOTES N.T.S. 1

POWER CALCULATION OF NEW LOAD ADDED VS EXISTING LOAD REMOVED

NEW EQUIPMENT INSTALLED		
DESCRIPTION	ELECTRICAL RATING	ELECTRICAL POWER (kW)
NEW CHILLER 'CH-1'	480V, 3-PH, 60Hz, MCA: 369	220.57
NEW PUMP SKID 'PS-1'	480V, 3-PH, 60Hz, FLA: 28	23.28
NEW RECEPTACLE	120V, 1-PH, 60Hz,	0.76
NEW EVAPORATOR HEAT TRACE UNIT	120V, 1-PH, 60Hz,	2.70
	TOTAL: 247.31 kW	

EXISTING EQUIPMENT REMOVED		
DESCRIPTION	ELECTRICAL RATING	ELECTRICAL POWER (kW)
CHILLER 1	480V, 3-PH, 60Hz, RLA: 108, MCA: 122	89.79
CHILLER 2	480V, 3-PH, 60Hz, RLA: 108, MCA: 122	89.79
PUMP 1	480V, 3-PH, 60Hz, FLA: 15	12.47
PUMP 2	480V, 3-PH, 60Hz, FLA: 7.5	6.24
COOLING TOWER CONTROL PANEL	480V, 3-PH, 60Hz, FLA: 28	23.28
	TOTAL: 221.56 kW	

TOTAL OF NEW LOAD ADDED:	247.31 kW
TOTAL OF EXISTING LOAD TO BE REMOVED:	221.56 kW
NEW LOAD ADDED MINUS EXISTING LOAD TO BE REMOVED:	25.75 kW

ADDITIONAL LOAD TO EXISTING CALCULATION N.T.S. 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120711 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 03/16/2023

MARK	DATE	DESCRIPTION
A	3/1/2022	DSA BACKCHECK

TETER, LLP
ARCHITECTS ENGINEERS CONNECTED
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WHCCD COALINGA
CHILLER REPLACEMENT
300 CHERRY LANE
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DRAWING TITLE
ELECTRICAL SCHEDULES, LEGENDS, AND NOTES

PROJECT NO.
22-12358

DRAWING
E800

PLOT DATE: 2/24/2023 10:26:56 AM