



LEE'S SUMMIT MEDICAL CENTER

# CHILLER PLANT REVISIONS

2100 BLUE PKWY.  
LEE'S SUMMIT, MO 64063  
ISSUE PURPOSE: ISSUE FOR BID

HENDERSON BUILDING SOLUTIONS PROJECT NO.:

2250001567

DATE: 09-27-2022

REVISIONS:

HCA DIVISIONAL DIRECTOR OF FACILITIES MANAGEMENT:

AARON SMITH



## DRAWING LIST:

### MECHANICAL

M000 MECHANICAL GENERAL NOTES, LEGENDS AND ABBREVIATIONS  
M100 MECHANICAL FLOOR PLAN - CENTRAL PLANT PIPING - DEMOLITION  
M101 MECHANICAL FLOOR PLAN - CENTRAL PLANT PIPING - NEW  
M102 MECHANICAL ROOF PLAN - COOLING TOWER PIPING - DEMOLITION & NEW  
M500 MECHANICAL DETAILS & SCHEDULES  
M700 MECHANICAL CONTROLS  
M701 MECHANICAL CONTROLS

### ELECTRICAL

E000 ELECTRICAL GENERAL NOTES, LEGENDS AND ABBREVIATIONS  
E100 ELECTRICAL DEMOLITION PLAN CENTRAL PLANT  
E101 ELECTRICAL PLAN CENTRAL PLANT  
E102 ELECTRICAL ROOF PLANS  
E500 ELECTRICAL DETAILS AND SCHEDULES  
E700 ELECTRICAL 1-LINE DIAGRAM

### STRUCTURAL

S1 STRUCTURAL DRAWING

PROJECT MANAGER  
HENDERSON BUILDING SOLUTIONS  
10901 WEST 84TH TERRACE, SUITE 300  
LENEXA, KS 66214  
913.894.9720  
www.hendersonbuilding.com

MEPF ENGINEERING CONSULTANT  
HENDERSON ENGINEERS, INC.  
10901 WEST 84TH TERRACE, SUITE 300  
LENEXA, KS 66214  
913.742.5000  
www.hendersonengineers.com

STRUCTURAL ENGINEER  
ASB  
7211 W. 98TH TERR., SUITE 130  
OVERLAND PARK, KS 66212  
913.383.9200

## CODES & STANDARDS

2018 INTERNATIONAL BUILDING CODE  
2018 INTERNATIONAL PLUMBING CODE  
2018 INTERNATIONAL MECHANICAL CODE  
2017 NATIONAL ELECTRICAL CODE  
  
CODE OF ORDINANCES OF THE CITY OF LEE'S SUMMIT, MO (2009)  
  
2018 NFPA 99 - HEALTH CARE FACILITIES CODE  
2018 NFPA 101 - LIFE SAFETY CODE  
2019 NFPA 110 - STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS  
FGI 2018 - GUIDELINES FOR DESIGN AND CONSTRUCTION OF HEALTHCARE FACILITIES

GENERAL MECHANICAL DEMOLITION NOTES:

1. ALL PIPING REMOVAL SHOWN ON THE DRAWINGS TO INCLUDE REMOVAL OF ALL HANGERS AND SUPPORTS. REPAIR ALL HOLES IN WALLS TO MATCH EXISTING CONSTRUCTION AND RATINGS. PROVIDE NEW SUPPORTS TO BUILDING STRUCTURE FOR ANY DEVICES TO REMAIN THAT WERE SUPPORTED FROM PIPES REMOVED.
2. IT SHALL BE THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTORS TO PERFORM ALL DEMOLITION NECESSARY TO PERFORM THE WORK SHOWN ON THE DRAWINGS, EXCEPT WHERE SAID DEMOLITION IS SHOWN ON THE DRAWINGS TO BE PERFORMED BY THE PRIME CONTRACTOR.
3. OWNER SHALL HAVE THE RIGHT TO SALVAGE ANY MATERIALS AND EQUIPMENT SHOWN TO BE REMOVED. ALL EQUIPMENT AND MATERIALS REMOVED AND NOT RETAINED BY THE OWNER SHALL BE CONSIDERED PROPERTY OF THE CONTRACTOR, AND SHALL BE PROMPTLY REMOVED FROM THE OWNERS PROPERTY AND SHALL BE LEGALLY DISPOSED OF. OWNER ASSUMES NO RESPONSIBILITY FOR CONDITION OF EQUIPMENT OR MATERIAL TO BE REMOVED.
4. CONTRACTOR SHALL CEASE WORK AND NOTIFY HENDERSON BUILDING SOLUTIONS AND OWNER IMMEDIATELY SHOULD ANY HAZARDOUS MATERIALS BE ENCOUNTERED DURING THE PERFORMANCE OF THE DEMOLITION WORK.
5. ALL PIPING, CONDUIT, TUBING, SUPPORTS, CONTROLS, ETC., MADE OBSOLETE BY WORK PERFORMED UNDER THIS CONTRACT, ARE TO BE REMOVED. REPAIR ALL HOLES IN WALLS TO MATCH EXISTING CONSTRUCTION AND RATINGS.
6. WHERE PIPING IS REMOVED AND NOT TO BE REUSED, CAP PIPE AND INSULATE TO MATCH EXISTING.

GENERAL MECHANICAL NOTES:

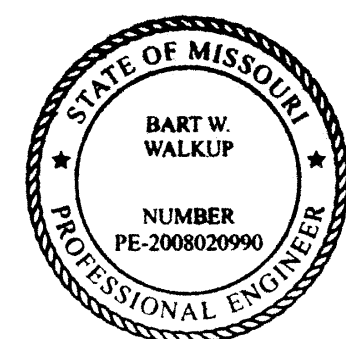
1. IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR AND EACH OF THEIR SUBCONTRACTORS TO REVIEW ALL DRAWINGS TO FULLY IDENTIFY SCOPE OF WORK ASSOCIATED WITH EACH TRADE AND TO ASSURE COORDINATION OF ALL WORK AFFECTING EACH TRADE.
2. CONTRACTOR SHALL INSPECT THE SITE PRIOR TO THE SUBMISSION OF A BID. CONTRACTOR SHALL INFORM THEMSELF OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED CONCERNING THE SITE OF THE WORK, THE OBSTACLES WHICH MAY BE ENCOUNTERED, THE DEMOLITION AND TEMPORARY REMOVAL AND REINSTALLATION REQUIRED TO PROVIDE ACCESS TO THE WORK, AND ALL OTHER RELEVANT MATTERS CONCERNING THE WORK TO BE PERFORMED. CONTRACTOR SHALL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER WHICH CONTRACTOR SHOULD HAVE INFORMED THEMSELVES OF PRIOR TO THE SUBMISSION OF A BID.
3. THE DRAWINGS REPRESENT THE BEST INFORMATION AVAILABLE TO THE ENGINEER AND HENDERSON BUILDING SOLUTIONS. ALL DIMENSIONS AND SIZES SHALL BE FIELD VERIFIED. DO NOT SCALE FROM DRAWINGS. SMALL DEVIATIONS BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS ENCOUNTERED SHALL BE RECONCILED DURING THE PERFORMANCE OF THE WORK AND SHALL NOT CONSTITUTE REASON FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR.
4. CONTRACTOR SHALL NOTIFY HENDERSON BUILDING SOLUTIONS AND REQUEST INSTRUCTIONS, SHOULD ACTUAL CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED ON THE DRAWING.
5. THE PRIME CONTRACTOR AND ALL SUBCONTRACTORS SHALL CLOSELY COORDINATE WITH ALL OTHER TRADES, AND SHALL MAKE ADJUSTMENTS AND OFFSETS WHERE NEEDED FOR CLEARANCE REQUIREMENTS. REFER TO STRUCTURAL AND ELECTRICAL DRAWINGS FOR COORDINATION.
6. CONTRACTOR SHALL REPAIR ALL DAMAGE TO EXISTING BUILDING, FIXTURES AND FINISHES CAUSED BY CONTRACTOR DURING THE PERFORMANCE OF THE WORK. REPAIRS SHALL BE PERFORMED BY QUALIFIED TRADES AND SHALL BE COMPLETED IN A MANNER ACCEPTABLE TO THE OWNER AND HENDERSON BUILDING SOLUTIONS.
7. COORDINATE ALL OPENINGS IN WALLS, AND ROOFS WITH OTHER CONTRACTORS.
8. WHERE SPECIFIC PIPE ELEVATIONS ARE SHOWN, CONTRACTOR SHALL FIELD VERIFY ELEVATIONS AND NOTIFY HENDERSON BUILDING SOLUTIONS OF ANY CONFLICTS PRIOR TO INSTALLATION.
9. PROVIDE UL RATED FIRE STOPPING ASSEMBLIES AT ALL PENETRATIONS OF FIRE RATED AND OR SMOKE RATED CONSTRUCTION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
10. PIPING CONNECTIONS TO EQUIPMENT SHALL BE VERIFIED WITH APPROVED MANUFACTURERS CERTIFIED SHOP DRAWINGS OR SUBMITTALS. PROVIDE TRANSITIONS AS INDICATED OR REQUIRED FROM EQUIPMENT TO PIPING SYSTEMS. REFER TO PIPING DIAGRAMS FOR VALVES AND SPECIALS TO BE INSTALLED.
11. SEE SPECIFICATIONS FOR ALLOWABLE METHODS OF PIPE AND DUCT SUPPORT FROM BUILDING STRUCTURE.
12. CONTRACTOR SHALL DRAIN, FLUSH AND REFILL ALL PIPING SYSTEMS NECESSARY TO PERFORM THE WORK. PROVIDE CHEMICAL TREATMENT FOR ALL PIPING SYSTEMS AT COMPLETION OF THE WORK.
13. CONTRACTOR SHALL OBTAIN INSTALLATION DRAWINGS FOR ALL HENDERSON BUILDING SOLUTIONS-SUPPLIED EQUIPMENT FROM MANUFACTURERS THAT REQUIRE CONNECTIONS TO MECHANICAL SYSTEMS. PRIOR TO INSTALLATION, COORDINATE ROUGH-IN AND CONNECTIONS TO EQUIPMENT TO MEET MANUFACTURERS REQUIREMENTS, TO PROVIDE CODE REQUIRED CLEARANCES AND TO MAINTAIN ACCESS TO EQUIPMENT FOR SERVICING.
14. CONTRACTOR SHALL PROVIDE TEMPORARY REMOVAL AND REINSTALLATION OF ALL BUILDING COMPONENTS REQUIRED TO PERFORM THE WORK. THIS INCLUDES PIPES, LIGHT FIXTURES, CONDUITS, ETC. REINSTALLATION SHALL BE PERFORMED BY QUALIFIED TRADES, AND SHALL BE COMPLETED IN A MANNER ACCEPTABLE TO THE OWNER AND HENDERSON BUILDING SOLUTIONS.
15. REFER TO CONTRACT DOCUMENTS FOR ALLOWABLE WORKING HOURS, PROJECT PHASING AND PROJECT SCHEDULE.
16. ALL SHUT-DOWNS AND INTERRUPTIONS SHALL BE CLOSELY COORDINATED WITH THE OWNER AND HENDERSON BUILDING SOLUTIONS A MINIMUM OF 96 HOURS IN ADVANCE.
17. CONTRACTOR SHALL NOTIFY HENDERSON BUILDING SOLUTIONS OF THE NEED TO REPAIR ANY EXISTING DUCTWORK, PIPING, ETC., DISCOVERED DURING THE PERFORMANCE OF THE WORK.
18. CONTRACTOR SHALL PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED, AND TO PREVENT DUST AND DEBRIS FROM ENTERING ANY AIR HANDLING SYSTEMS. ALL SPACES WHERE CONSTRUCTION IS OCCURRING SHALL BE MAINTAINED AT A NEGATIVE PRESSURE RELATIVE TO THE SURROUNDING SPACES DURING THE ENTIRE LENGTH OF THE CONSTRUCTION PERIOD WITH THE EXCEPTION OF THE CENTRAL PLANT, UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR OTHER FACILITY SPECIFIC REQUIREMENTS.
19. CONTRACTOR SHALL OBTAIN AND BEAR THE COST OF ALL PERMITS, FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC., AS PART OF THIS CONTRACT.
20. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY, UNLESS EXCEEDED BY THIS DESIGN.
21. CONTRACTOR SHALL USE THE MECHANICAL DRAWINGS AS THE BASIS OF COORDINATION AND SHOP DRAWINGS. ANY SIGNIFICANT DEVIATION FROM THE MECHANICAL DRAWINGS SHALL BE APPROVED BY THE HENDERSON BUILDING SOLUTIONS.
22. NO WORK SHALL BE PERFORMED PRIOR TO HENDERSON BUILDING SOLUTIONS REVIEW AND APPROVAL OF ALL REQUIRED SHOP DRAWINGS, AND PRODUCT, MATERIAL AND EQUIPMENT SUBMITTALS. ANY WORK INSTALLED PRIOR TO MEETING THESE REQUIREMENTS SHALL BE REMOVED WHERE DIRECTED BY THE HENDERSON BUILDING SOLUTIONS.

MECHANICAL SYMBOLS

ANNOTATION		PIPING SYMBOLS		PIPING LINE TYPES	
	MECHANICAL PLAN NOTE CALLOUT		DIRECTION OF FLOW		EXISTING PIPING TO BE REMOVED
	MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR PROVIDED) (UNO)		CONTROL VALVE		EXISTING PIPING TO REMAIN
	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER		SHUTOFF VALVE		NEW PIPE
	SECTION CUT DESIGNATION		BALL VALVE		CONDENSATE DRAIN (CD)
ABBREVIATIONS			BUTTERFLY VALVE		HEATING HOT WATER SUPPLY (HWS)
AFF	ABOVE FINISHED FLOOR		GATE VALVE		HEATING HOT WATER RETURN (HWR)
HE	HEAT EXCHANGER				
HP	HORSEPOWER				
HWP	HEATING HOT WATER PUMP				
HWSR	HEATING HOT WATER SUPPLY/RETURN				
LAT	LEAVING AIR TEMPERATURE				
LP(CP)	LOW PRESSURE CONDENSATE (PUMPED)				
LWT	LEAVING WATER TEMPERATURE				
MAX	MAXIMUM				
MBH	1000 BTU PER HOUR				
MFR	MANUFACTURER				
MIN	MINIMUM				
N/A	NOT APPLICABLE				
N/C	NORMALLY CLOSED				
N/O	NORMALLY OPEN				
NOM	NOMINAL				
OA	OUTSIDE AIR				
RPM	REVOLUTIONS PER MINUTE				
SA	STEAM TRAP				
ST	STEAM				
STM	STEAM				
TOS	TOP OF STEEL				
TYP	TYPICAL				
VFD	VARIABLE FREQUENCY DRIVE				
WB	WET BULB				
WPD	WATER PRESSURE DROP				
WS	WATER SOFTENER				
				LINE TYPE LEGEND	
				THROUGHOUT THE DRAWINGS DIFFERENT LINE TYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK, AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINE TYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASING DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAME OF DESCRIBING THE PROJECT. THE FOLLOWING LINE TYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.	
				EXISTING	-----
				DEMOLISH	-----
				NEW	-----



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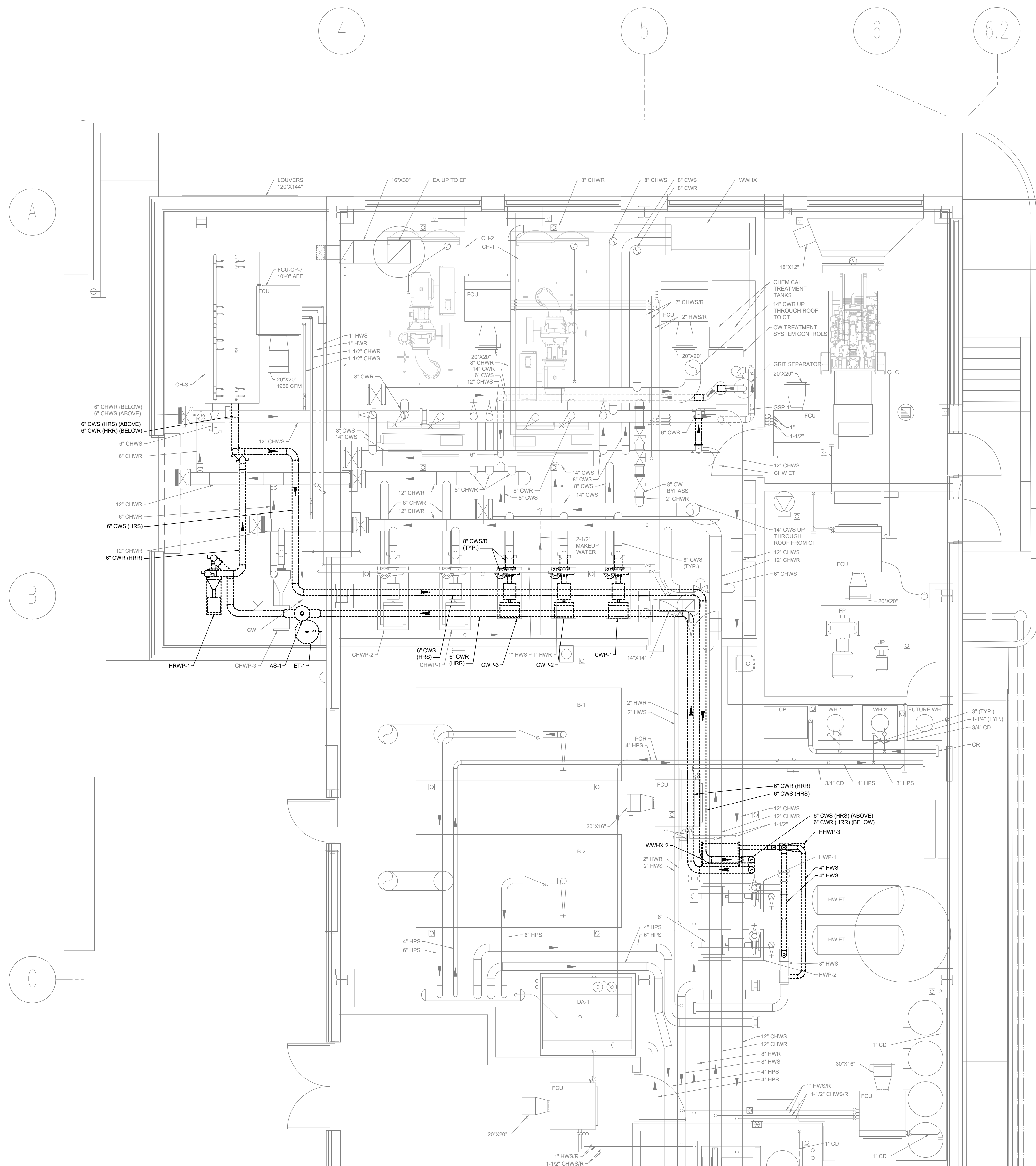
BARTON W. WALKUP  
LICENSE # PE-2008020990  
PROFESSIONAL SEAL 12/19/2022

REVISIONS

JOB NO: 2250001567  
DATE: 09/27/2022  
CHECKED BY: HBS  
DRAWN BY: HEI

MECHANICAL  
FLOOR PLAN  
CENTRAL PLANT PIPING  
DEMOLITION

M100



1 MECHANICAL FLOOR PLAN - CENTRAL PLANT PIPING - DEMOLITION  
SCALE: 1/4"=1'-0"



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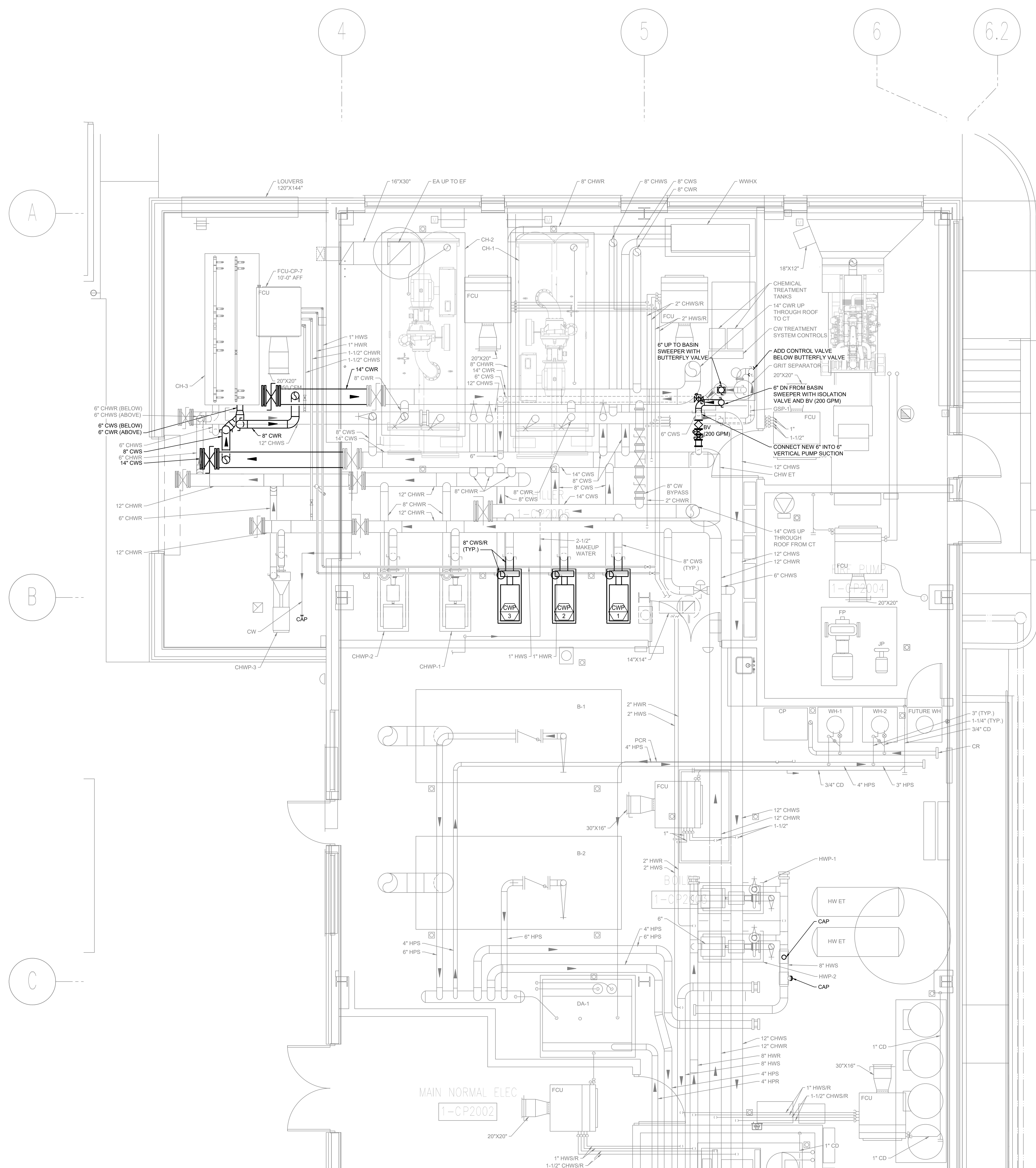
BARTON W. WALKUP  
LICENSE # PE-2008020990  
PROFESSIONAL SEAL 12/19/2022

## REVISIONS

JOB NO:	225000156
DATE:	09/27/2022
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DRAWN BY:	HB

MECHANICAL  
FLOOR PLAN  
CENTRAL PLANT PIPING  
NEW

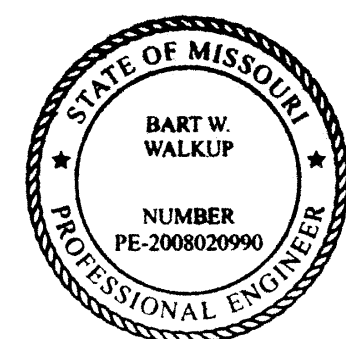
M101



1 MECHANICAL FLOOR PLAN - CENTRAL PLANT PIPING - NEW  
SCALE: 1/4"=1'-0"



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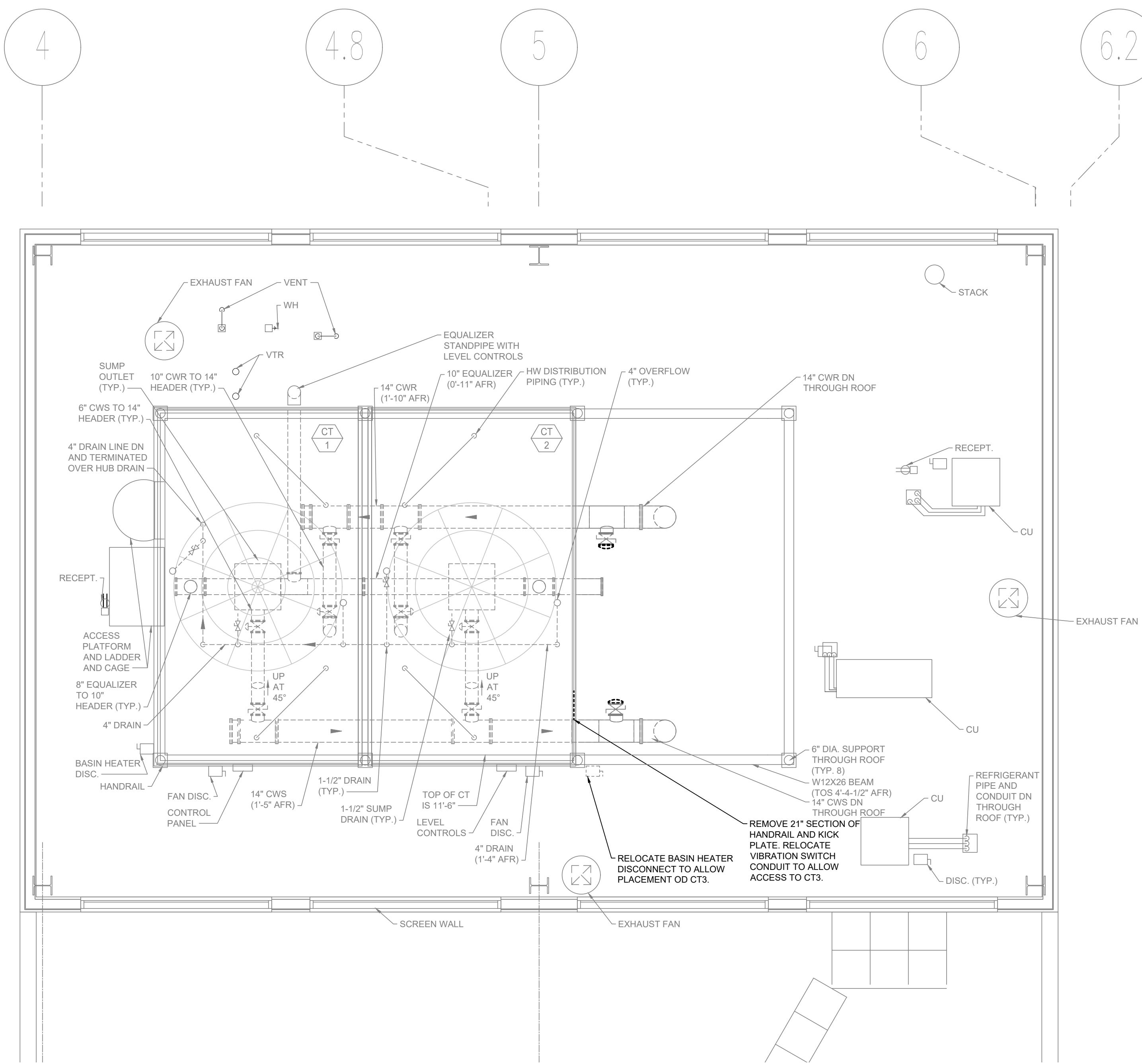
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REVISIONS

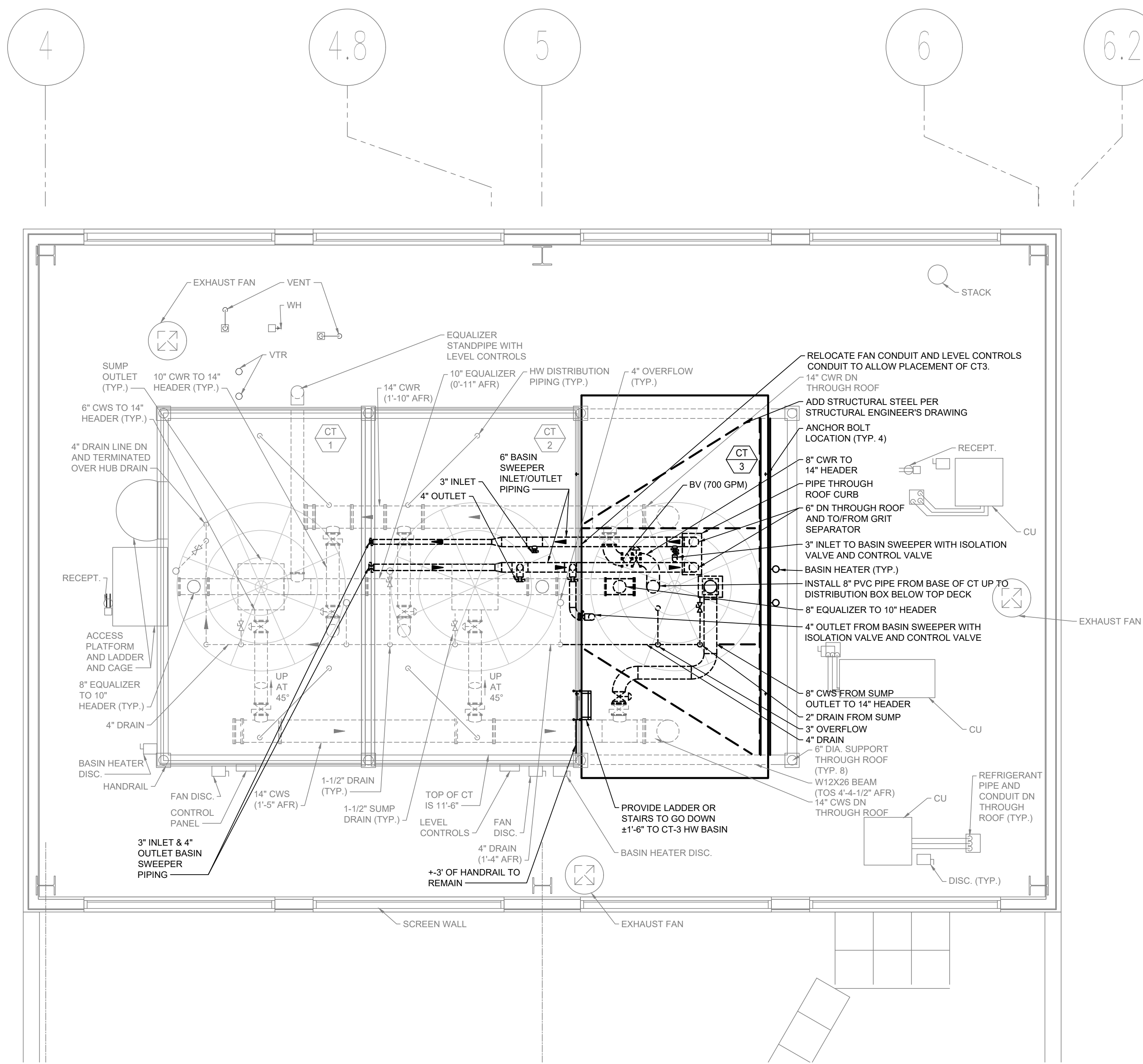
JOB NO: 2250001567  
DATE: 09/27/2022  
CHECKED BY: HBS  
DRAWN BY: HEI

MECHANICAL  
ROOF PLAN  
COOLING TOWER PIPING  
DEMOLITION & NEW

M102



1 MECHANICAL ROOF PLAN -COOLING TOWER PIPING - DEMOLITION  
SCALE: 1/4"=1'-0"



2 MECHANICAL ROOF PLAN -COOLING TOWER PIPING - NEW  
SCALE: 1/4"=1'-0"

COOLING TOWER SCHEDULE (HENDERSON BUILDING SOLUTIONS FURNISHED)																
MARK	MANUFACTURER	MODEL	NO OF CELLS	CAF (MBH)	DESIGN FLOW (GPM)	TAB FLOW (GPM)	EAT (°F WB)	EWI (°F)	LWT (°F)	FAN HP	WPH	DISC TYPE	VFD (Y/N)	SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	DIMENSIONS (LxWxH)
CT-3	BAC	S3E-102D-060	1	6450	1,290	700	78	95	85	30	480/3	FUSED	Y	10,300	20,570	20'-0 1/2" X 9'-9 1/4" X 10'-0"

NOTES:

A. VARIABLE FREQUENCY DRIVE FURNISHED AND INSTALLED BY DIVISION 26 CONTRACTOR.

B. DISCONNECT PROVIDED BY MANUFACTURER

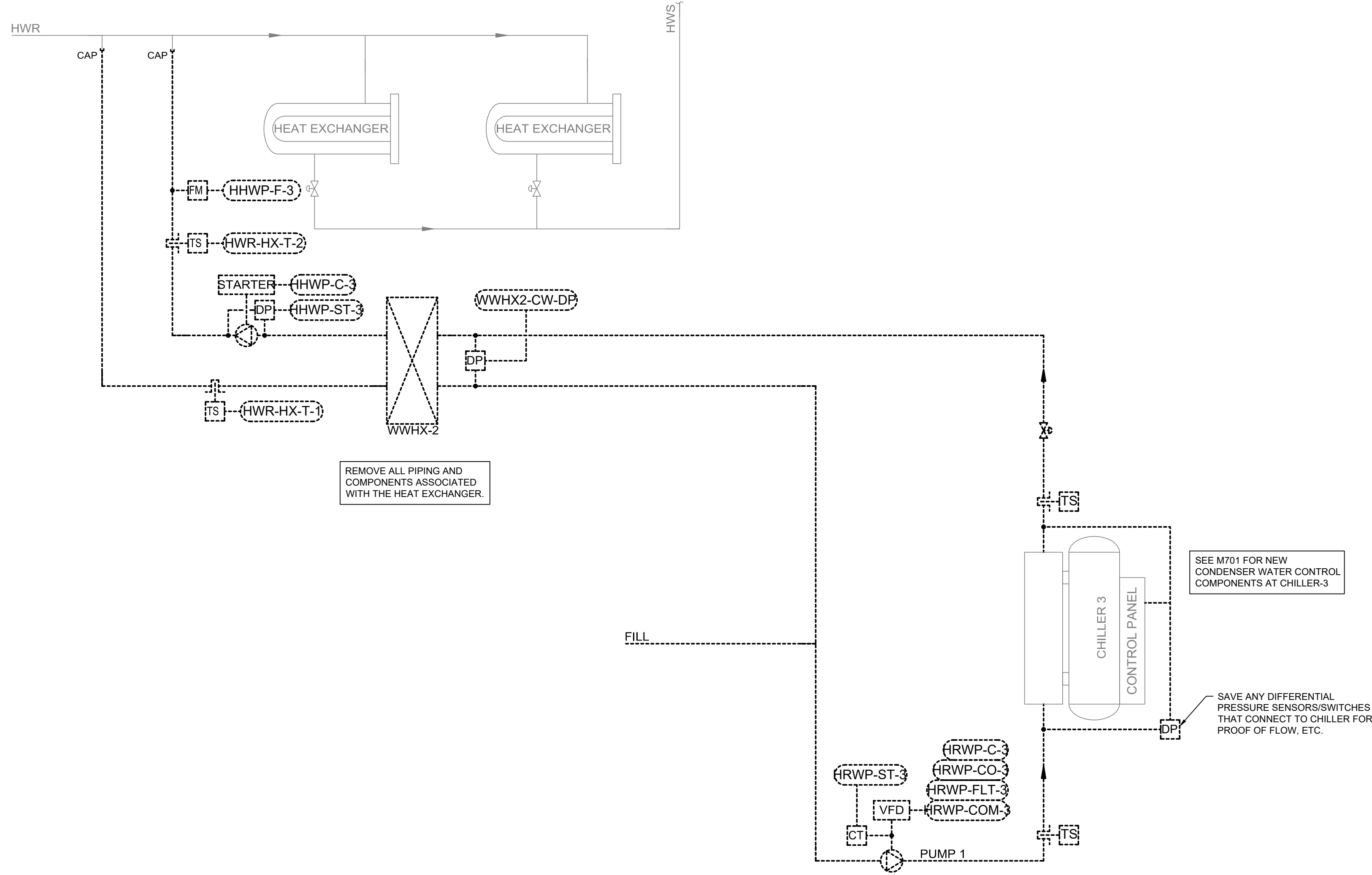
C. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NOTES:

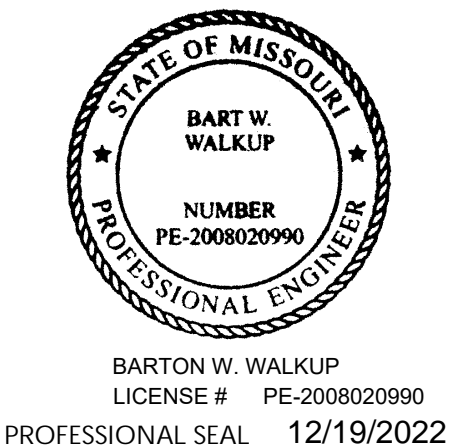
- A. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION
- B. VFD FURNISHED BY DIVISION 26 CONTRACTOR.
- C. PUMP SHALL BE SELECTED FOR NON-OVERLOADING OVER THE FULL RANGE OF THE PUMP CURVE



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DEMOLITION - POINTS LIST - CONDENSER WATER PLANT									
POINT ID	DESCRIPTION	POINT TYPE	DEFAULT SETPOINT	SET POINT RESET RANGE	FAIL POSITION	STATUS ALARM	ALARM RANGE	NOTES	
HEATING HOT WATER LOOP									
HHWP-HX-T-1	HEATING HOT WATER RETURN TEMPERATURE AT HX INLET	AI							
HHWP-HX-T-2	HEATING HOT WATER RETURN TEMPERATURE AT HX OUTLET	AI							
HHWP-C-3	CONDENSER PUMP COMMAND	BO							
HHWP-ST-3	CONDENSER PUMP STATUS	BI							
HHWP-F-3	CHILLER CONDENSER WATER FLOW RATE	AI							
WWHX2-CW-DP	LOOP DIFFERENTIAL PRESSURE SENSOR	AI							
CONDENSER WATER PUMP (TYPICAL ALL CWP)									
HRWP-C-3	CONDENSER PUMP COMMAND	BO							
HRWP-CO-3	CONDENSER PUMP CONTROL OUTPUT	AO							
HRWP-COM-3	CONDENSER PUMP VFD COMMUNICATION	COM							
HRWP-FLT-3	CONDENSER PUMP VFD FAULT	BI							
HRWP-ST-3	CONDENSER PUMP STATUS	BI							



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DRAWN BY: HEI

MECHANICAL  
CONTROLS

M700





LEE'S SUMMIT MEDICAL CENTER  
CHILLER PLANT REVISIONS  
2100 BLUE PKWY, LEE'S SUMMIT, MO 64063

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# ELECTRICAL GENERAL NOTES, ABBREVIATIONS AND LEGENDS

# E000

1. ALL CONDUIT AND ELECTRICAL COMPONENTS REMOVAL SHOWN ON THE DRAWINGS TO INCLUDE REMOVAL OF ALL HANGERS AND SUPPORTS. CONTRACTOR SHALL REMOVE ALL CONDUIT AND ELECTRICAL COMPONENTS EXISTING CONSTRUCTION AND RATINGS. PROVIDE NEW SUPPORTS TO BUILDING STRUCTURE FOR ANY DEVICES TO REMAIN THAT WERE SUPPORTED FROM CONDUIT AND ELECTRICAL COMPONENTS REMOVED.
2. IT SHALL BE THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTORS TO PERFORM ALL DEMOLITION NECESSARY TO PERFORM THE WORK SHOWN ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORK ON THE DRAWINGS TO BE PERFORMED BY THE PRIME CONTRACTOR.
3. CONTRACTOR SHALL REPAIR ALL DAMAGE TO EXISTING BUILDINGS, FIXTURES AND FINISHES CAUSED BY CONTRACTOR DURING THE PERFORMANCE OF THE WORK. REPAIRS SHALL BE PERFORMED BY QUALIFIED TRADES AND SHALL BE COMPLETED IN A MANNER ACCEPTABLE TO THE OWNER AND HBS.

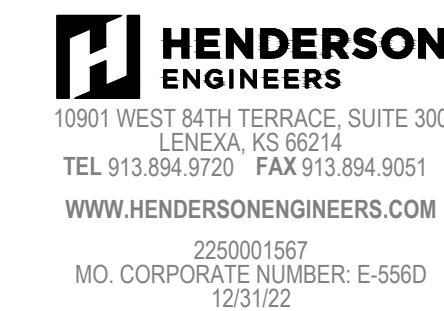
1. THESE NOTES APPLY TO ALL ELECTRICAL TRADES.
2. PROVIDE ALL OPENINGS IN WALLS, FLOORS, ROOFS AND CEILINGS AND FIRE STOP AS REQUIRED. COORDINATE WITH OTHER CONTRACTORS.
3. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE TEMPORARY REMOVAL AND REINSTALLATION OF ALL BUILDING FINISHES INCLUDING CARPETING, WALLS, CEILING, WALLS, ETC. AND PROVIDE REMOVAL AND REINSTALLATION OF ALL BUILDING CONSTRUCTION NECESSARY TO PERFORM THE WORK SHOWN ON THE DRAWINGS. REMOVAL SHALL BE PERFORMED BY QUALIFIED TRADES AND SHALL BE COMPLETED IN A MANNER ACCEPTABLE TO THE OWNER AND HBS.
4. CONTRACTOR SHALL REPAIR ALL DAMAGE TO EXISTING BUILDING, FIXTURES AND FINISHES, AND TO SITE CAUSED BY CONTRACTOR DURING THE PERFORMANCE OF THE WORK. DAMAGE SHALL BE REPAIRED BY QUALIFIED TRADESMEN AND SHALL BE COMPLETED IN A MANNER ACCEPTABLE TO THE OWNER AND HBS.
5. CONTRACTOR SHALL INFORM THEMSELVES OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED CONCERNING THE SITE OF THE WORK, THE OBSTACLES WHICH MAY BE ENCOUNTERED, THE DEMOLITION AND TEMPORARY REPAIRS AND REINSTALLATION REQUIRED TO PROVIDE ACCESS TO THE WORK, AND ALL OTHER RELEVANT MATTERS CONCERNING THE WORK TO BE PERFORMED. CONTRACTOR SHALL NOT BE ENTITLED TO ANY ADDITIONAL COMPENSATION BY REASON OF ANY MATTER WHICH CONTRACTOR SHOULD HAVE INFORMED THEMSELVES PRIOR TO THE SUBMISSION OF A BID.
6. REMOVAL OR RELOCATION OF ANY CONDUITS 1-INCH OR SMALLER OR CABLES, Wires, ETC., NOT INSTALLED IN CONDUIT REQUIRED TO ALLOW INSTALLATION ON NEW WORK, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR WHETHER OR NOT SUCH WORK IS SHOWN ON THE DRAWINGS, EXTRA PAYMENT WILL NOT BE ALLOWED FOR WORK REQUIRED BY THIS NOTE.
7. THE DRAWINGS REPRESENT THE BEST INFORMATION AVAILABLE TO THE ENGINEERING HBS. DIMENSIONS AND SIZES SHALL BE FIELD VERIFIED AND DO NOT SCALE FROM DRAWINGS. SMALL DEVIATIONS BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS ENCOUNTERED SHALL BE RECOGNIZED DURING THE PERFORMANCE OF THE WORK. CONTRACTOR SHALL NOT BE ENTITLED TO ANY ADDITIONAL COMPENSATION TO THE CONTRACTOR.
8. CONTRACTOR SHALL NOTIFY HBS AND REQUEST INSTRUCTIONS. SHOULD ACTUAL CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED ON THE DRAWINGS.
9. THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH ALL OTHER TRADES AND SHALL MAKE ADJUSTMENTS AND OFFSETS WHERE NEEDED FOR CLEARANCE REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR COORDINATION OF THE ELECTRICAL CONTRACTOR.
10. CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH APPROVED MANUFACTURER'S HBS. DIMENSIONS SHALL BE FIELD VERIFIED FOR A COMPLETE ELECTRICAL CONNECTION.
11. PROVIDE UL RATED FIRE STOPPING ASSEMBLIES AT ALL PENETRATIONS OF FIRE OR SMOKE RATED CONSTRUCTION. SEAL ALL PENETRATIONS OF SMOKE WALLS AS SHOWN ON THE DRAWINGS.
12. ALL FEES AND ANY OTHER COSTS, FILING OF COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.
13. UPDATE ALL PANEL DIRECTORIES WITH A TYPED DIRECTORY TO REFLECT ALL WORK PERFORMED UNDER THIS CONTRACT.
14. SEE SPECIFICATIONS AND DRAWINGS FOR PROJECT PHASING, ALLOWABLE WORKING HOURS AND PROJECT SCHEDULE.
15. REFER TO SPECIFICATIONS FOR ALLOWABLE HOURS AND DATES FOR EQUIPMENT SHUTDOWNS AND FOR THE MINIMUM SERVICE REQUIREMENTS. COORDINATE SHUTDOWNS WITH OWNER AND HBS A MINIMUM OF 96 HOURS IN ADVANCE.
16. NEW AND EXISTING PANELS ALTERED UNDER THIS PROJECT SHALL BE VACUUM CLEANED AND DECONTAMINATED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE THE PROPER DEVICE (IE. KNOCKOUT BLANKS, BREAKER BLANKS, ETC.) INSTALLED AND APPROVED FOR SUCH USE.
17. CONTRACTOR SHALL CLEAN ALL DEVICE BACKBOXES AND JUNCTION BOXES AND SHALL INSTALL A BLANK PLATE ON ANY BOX DESIGNATED AS FUTURE USE FOR MANUFACTURER'S INSTALLATION OF OTHERS.
18. SEE SPECIFICATIONS FOR ALLOWABLE METHODS OF CONDUIT SUPPORT FROM BUILDING STRUCTURE.
19. FEDERAL, STATE, LOCAL, MUNICIPAL AND UTILITY COMPANY CODES, RULES AND REGULATIONS APPLY UNLESS EXCEEDED BY THIS DESIGN.
20. NO WORK SHALL BE PERFORMED PRIOR TO HBS REVIEW AND APPROVAL. OF ALL REQUIRED SHOP DRAWINGS AND PRODUCT MATERIAL, AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS. SHALL BE REMOVED BY CONTRACTOR WHERE DIRECTED BY HBS.

A	AMP	AMPERE
AF	AC	ALTERNATING CURRENT
AM		AUTHORITY HAVING JURISDICTION
AL		AMPERE INTERRUPTING CAPACITY
ATS		ALTERNATING TRANSFER SWITCH
ATC		AUTOMATIC TRIP WIRE CAUSE
B		
C		CONDUIT
CH		CHILLER
CB		CIRCUIT BREAKER
CW		CONDENSER WATER PUMP
CWP		CHILLER WATER PUMP
CC		COOLING TOWER
EC		ELECTRICAL CONTRACTOR
EH		EXHAUST FAN
EMT		ELECTRICAL METALLIC TUBING
F		FUSED
G		GROUND
GB		GROUNDING CONDUCTOR
GR		GROUND FAULT INTERRUPTING
GW		GROUND WATER
HHWP		HEATING HOT WATER PUMP
HRWP		HEATING RETURN WATER PUMP
HV		HIGH VOLTAGE
H		HERTZ
K		1000 (KILO)
KVA		KILOVOLTS AMPERES
KV		KILOVOLTS
L		LOAD
LED		LIGHT EMITTING DIODES
M		
MCB		MECHANICAL CIRCUIT BREAKER
MC		MAJOR CONTROL CENTER
MCB		MAIN CIRCUIT BREAKER
MCB		MAIN CONTROL CENTER (MCC)
MLO		MAIN LOU
N		NORMALLY CLOSED
NEC		NATIONAL ELECTRICAL MANUFA
NF		NOT FUSED
NP		NATIONAL PROTECTION CODE
NO		NORMALLY OPEN
NOT		NOT
R		RIGID METAL CONDUIT
RMC		RIGID METAL CONDUIT
RF		RETURN FAN
S		SUPPLY FAN
SP		SINGLE POLE DOUBLE THROW
SPST		SINGLE POLE SINGLE THROW
T		TYPICAL
U		UNIT HEATER
UL		UNDERGROUND LABORATORY
V		VOLTS
VAC		VOLTS-AMPS
V		VOLTS ALTERNATING CURRENT
V		VARIABLE FREQUENCY DRIVE
W		WATT
WP		WEATHERPROOF

SYMBOL	DESCRIPTION
-----	EXISTING TO REMAIN
-----	EXISTING TO BE REMOVED/REUSED
	NEW
	GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE WITH WEATHERPROOF COVER
	THERMOSTAT CONTROL FOR HEAT TRACE
	CIRCUIT BREAKER
	JUNCTION BOX
	PANELBOARD
	PANELBOARD (1-LINE)
	DISTRIBUTION PANEL/CABINET/EQUIPMENT
	DISCONNECT SWITCH (AMPS/SERVICE AMPS)
	STARTER/CONTACTOR (NEMA STARTER/CONTACTOR SIZE)
	VARIABLE FREQUENCY DRIVE
	TRANSFORMER
	TRANSFORMER (1-LINE)
	TRANSFER SWITCH
	GENERATOR
	MOTOR LOAD (HORSEPOWER)
	HOMERUN ARROW
	HOMERUNS A, B, C, TO PANEL Z
	CURVED TIC = GROUND
	LONG TIC = NEUTRAL
	SHORT TIC = PHASE
	NO TICs = 3 #12 PHASE, NEUTRAL, AND GROUND FOR STANDARD WIRING
	3 #12 PHASE, SWITCHED PHASE, AND GROUND FOR STANDARD LIGHT SWITCH WIRING



**1** DISCONNECT PUMP AND REMOVE ALL ASSOCIATED STARTERS OR VFDS, CONDUIT AND WIRING.



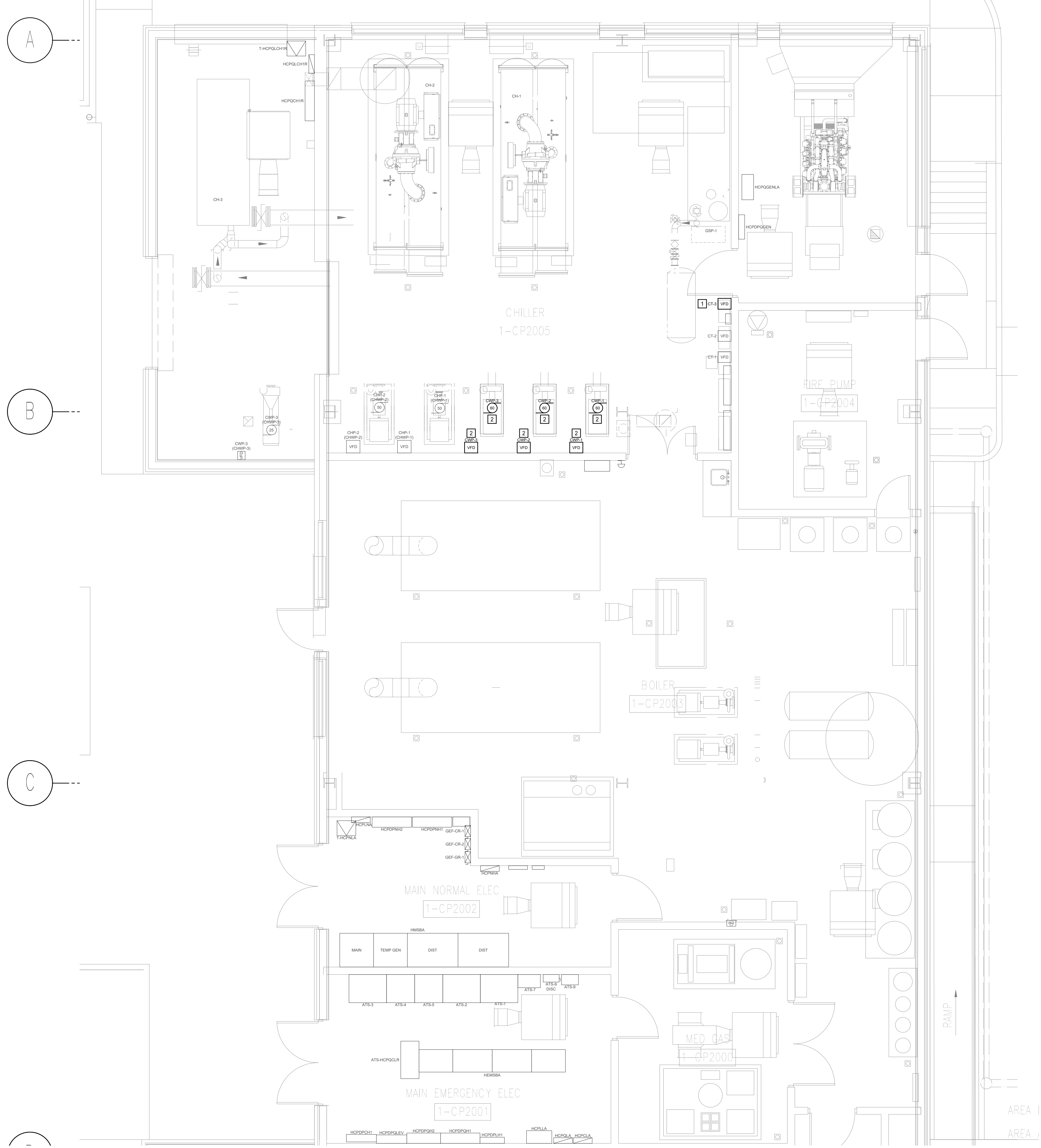
## 2100 BLUE PKWY, LEE'S SUMMIT, MO 64063



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DRAWN BY:	HE

E100





- NOTES:**
- 1 PROVIDE VFD FOR CT-3. SEE VFD SCHEDULE ON SHEET E500. PROVIDE VFD. SEE VFD SCHEDULE ON SHEET E500. PROVIDE CONTROL FROM AUXILIARY CONTACTS IN DISCONNECT SWITCH PER DETAIL 4 ON SHEET E500. REWORK COPPER TUBING AIR LINES CONNECTED TO REFRIGERANT MONITOR TO MAKE ROOM FOR VFD.
  - 2 PROVIDE COMPLETE ELECTRICAL CONNECTION TO NEW PUMP. PROVIDE VFD. SEE VFD SCHEDULE ON SHEET E500.

**HENDERSON  
BUILDING SOLUTIONS**  
10501 WEST 84TH TERRACE, SUITE 300  
LENEA, KS 66214  
TEL 913.894.9720 FAX 913.894.9051  
WWW.HENDERSONBUILDING.COM  
2250001567

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TEL 913.894.9720 FAX 913.894.9051  
WWW.HENDERSONENGINEERS.COM  
2250001567  
MO. CORPORATE NUMBER: E-556D  
12/31/22

LEE'S SUMMIT MEDICAL CENTER  
CHILLER PLANT REVISIONS  
2100 BLUE PKWY, LEE'S SUMMIT, MO 64063

SCOTT C. SAA  
LICENSE # PE-2020028047  
PROFESSIONAL SEAL

REVISIONS	

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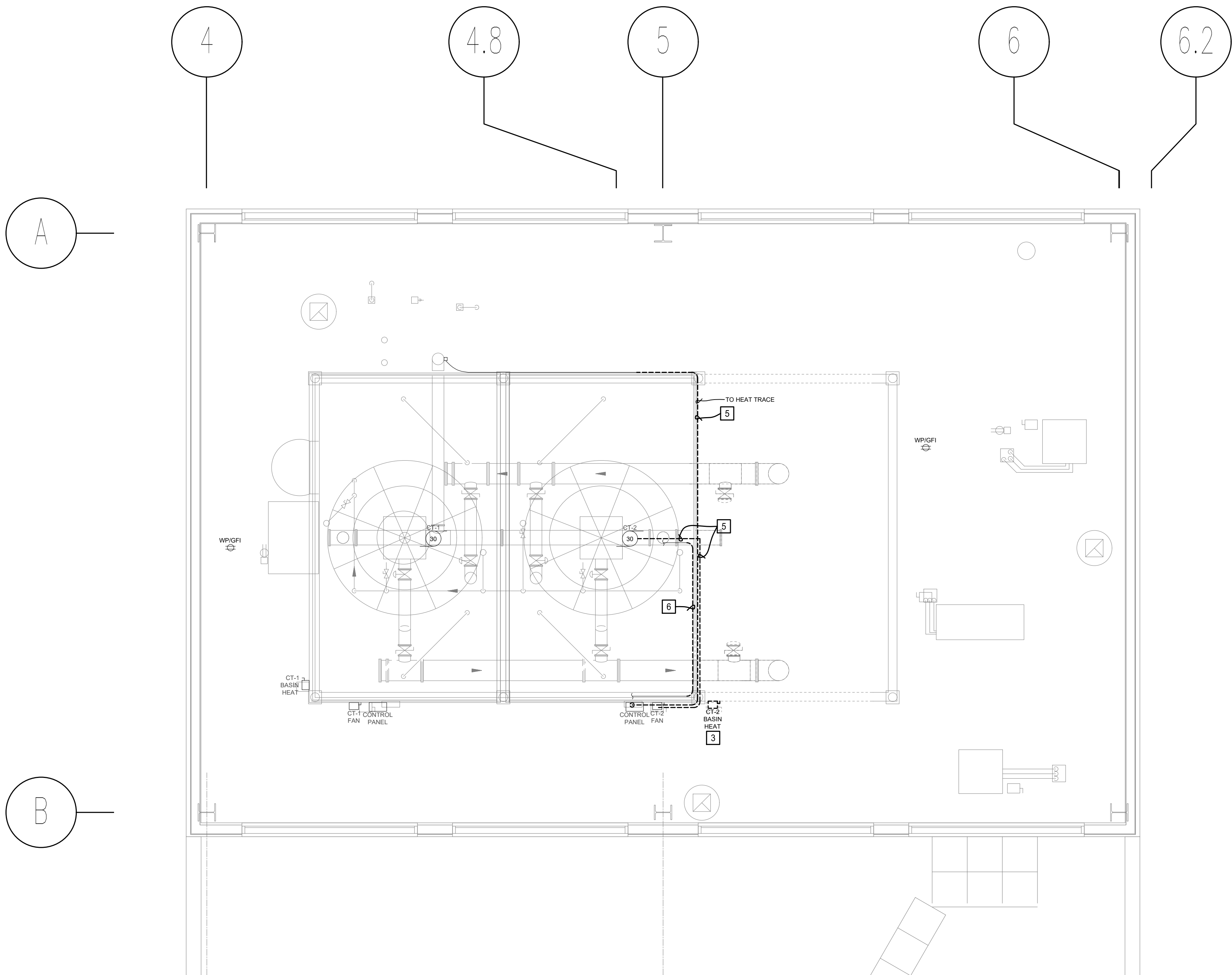
ELECTRICAL PLAN  
CENTRAL PLANT

E101

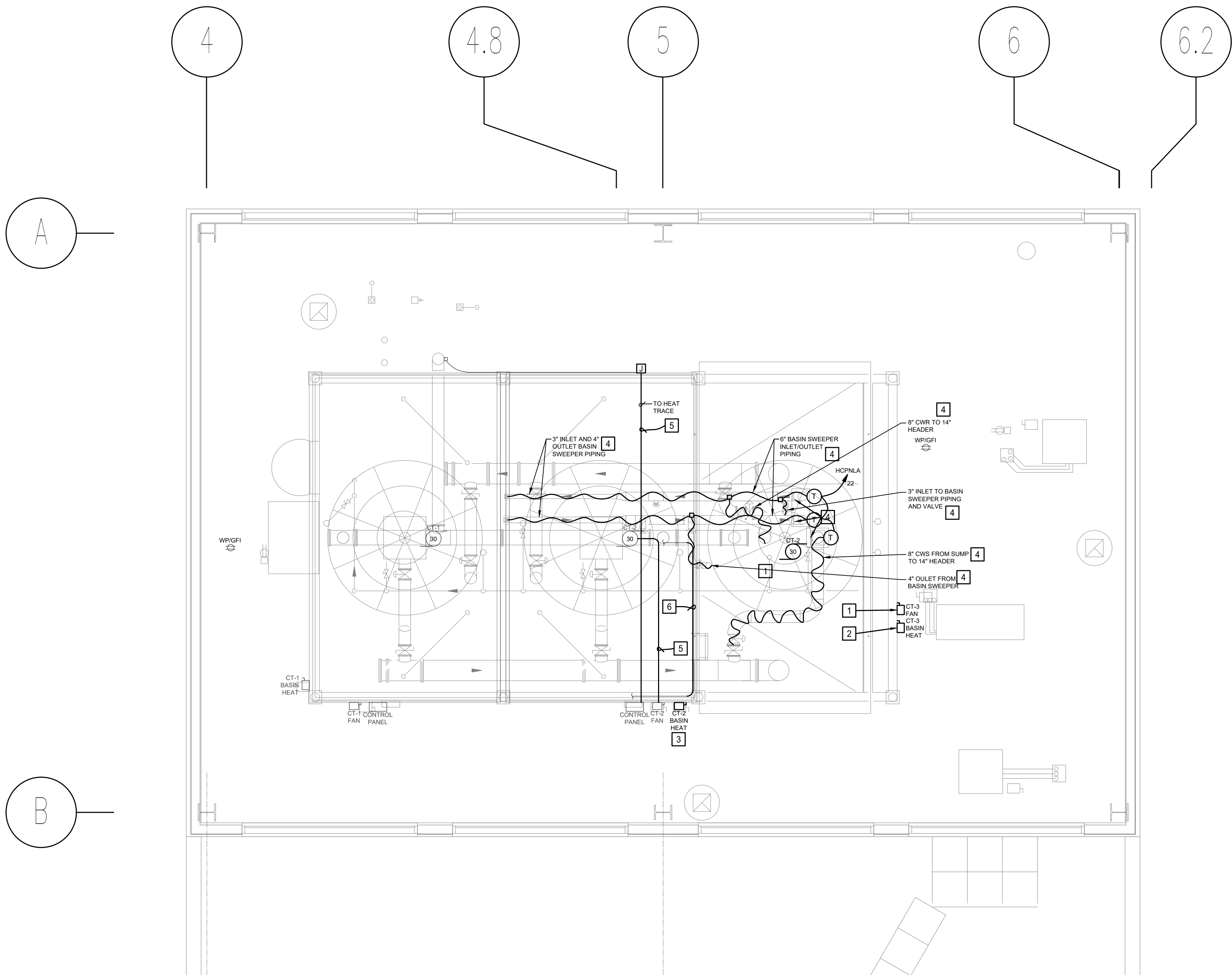
1 ELECTRICAL PLAN - CENTRAL PLANT  
SCALE: 1/4" = 1'-0"

NOTES:

- 1 PROVIDE COMPLETE ELECTRICAL CONNECTION TO NEW COOLING TOWER. PROVIDE NON-FUSED NEMA 3R DISCONNECT SWITCH.
- 2 PROVIDE COMPLETE ELECTRICAL CONNECTION TO NEW BASIN HEATER. PROVIDE NON-FUSED NEMA 3R DISCONNECT SWITCH.
- 3 RELOCATE DISCONNECT SWITCH FOR CT-2 BASIN HEATERS. REWORK CONDUIT AND WIRING AS REQUIRED.
- 4 PROVIDE HEAT TRACE ON ALL NEW BASIN SWEEPER, CWS AND CWR PIPING PER DETAILS 1, 2 AND 3 ON SHEET E500.
- 5 REMOVE CONDUIT AND WIRING FROM SIDE OF COOLING TOWER CT-2 TO ALLOW INSTALLATION OF NEW COOLING TOWER CT-3. INSTALL NEW CONDUIT AND WIRING BENEATH COOLING TOWER AND REWORK AS REQUIRED.
- 6 REMOVE CONDUIT AND WIRING ATTACHED TO COOLING TOWER RAILING CONNECTING TO COOLING TOWER CT-2 VIBRATION SWITCH TO ALLOW REMOVAL OF RAILING. INSTALL NEW CONDUIT AND WIRING ON TOP OF COOLING TOWER AND REWORK CONNECTION TO VIBRATION SWITCH AS REQUIRED.

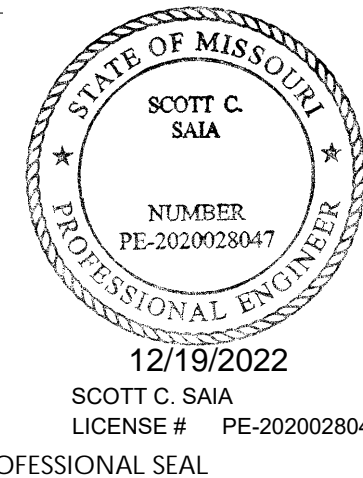


1 ELECTRICAL DEMOLITION PLAN - ROOF  
SCALE: 1/4" = 1'-0"



2 ELECTRICAL PLAN - ROOF  
SCALE: 1/4" = 1'-0"

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CHILLER PLANT REVISIONS  
2100 BLUE PKWY, LEE'S SUMMIT, MO 64063

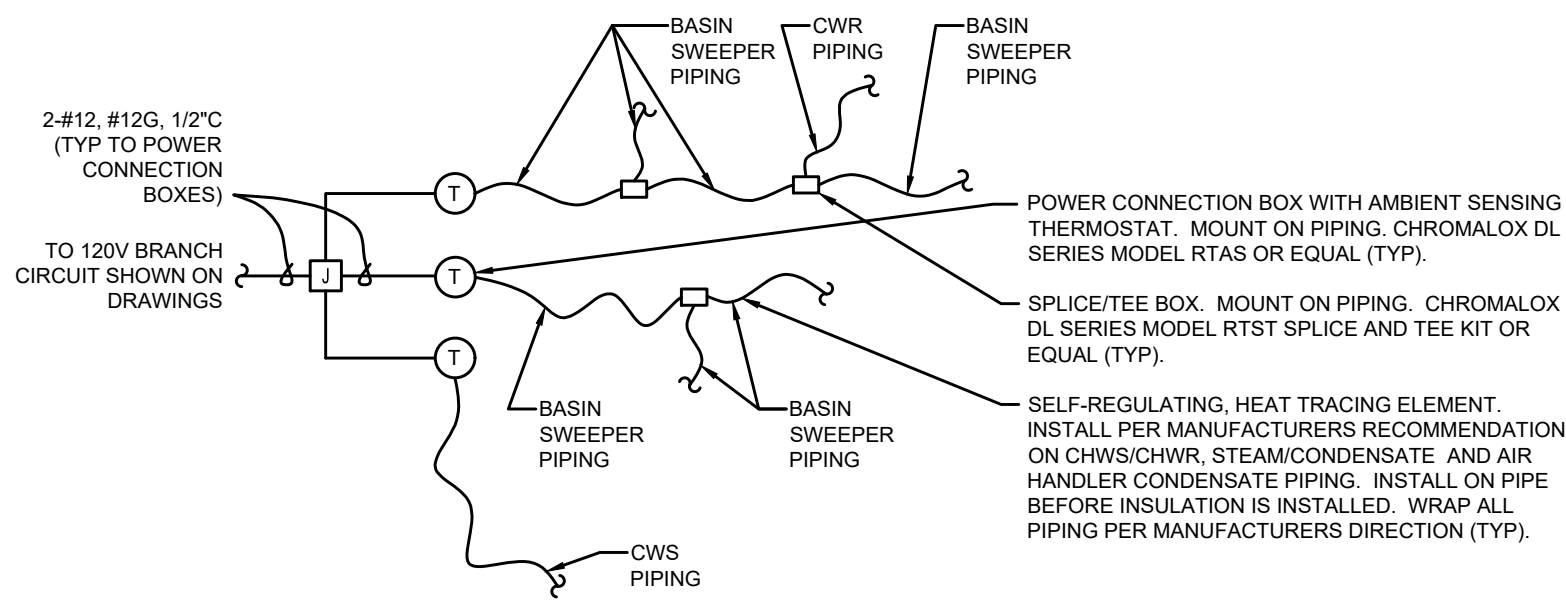


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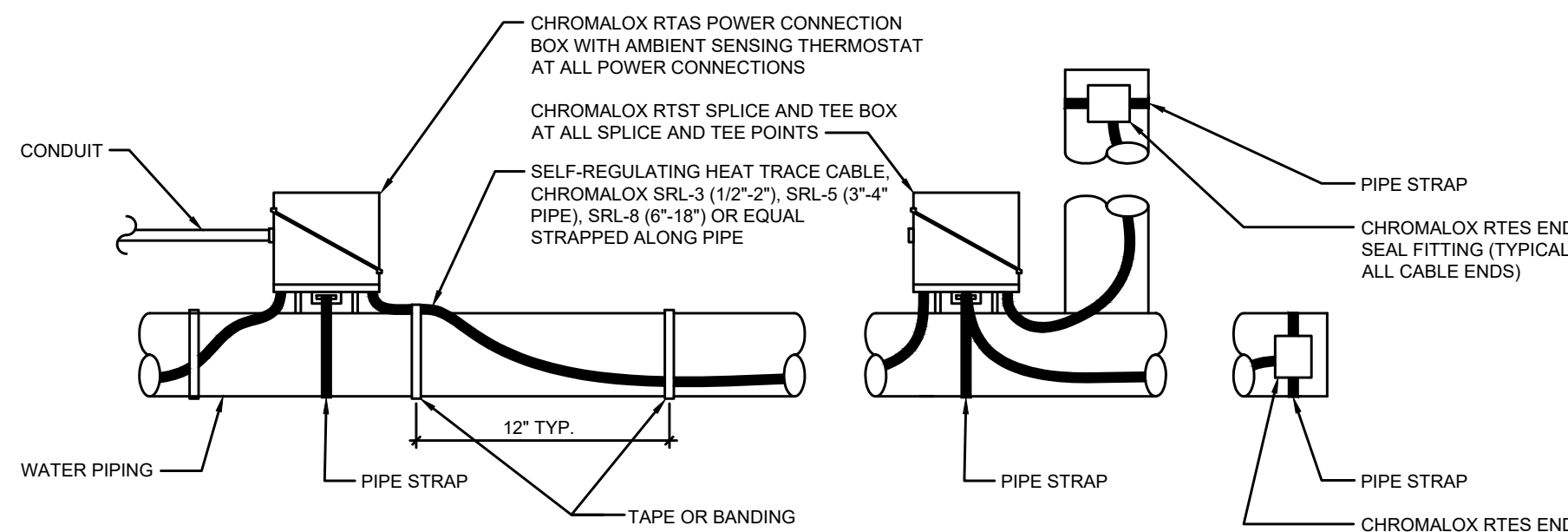
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ELECTRICAL PLANS  
ROOF

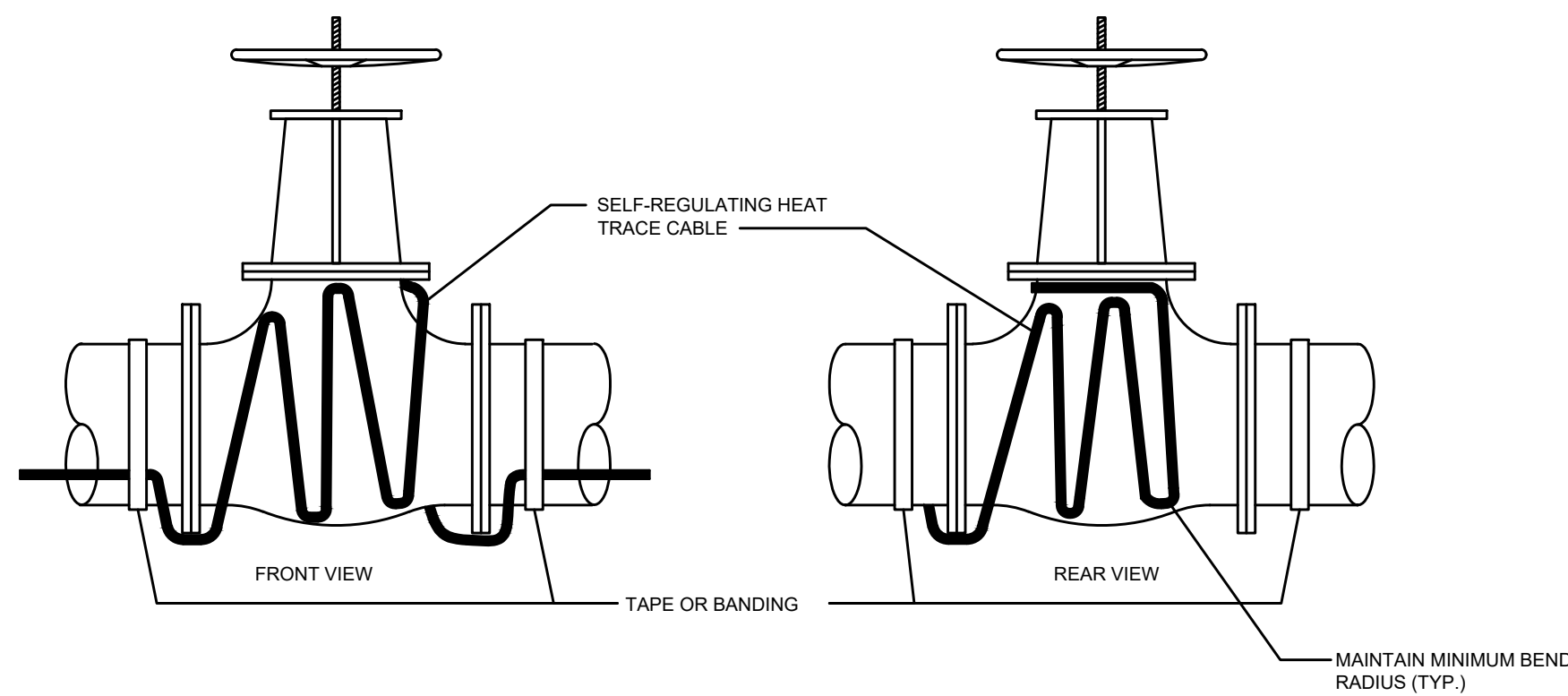
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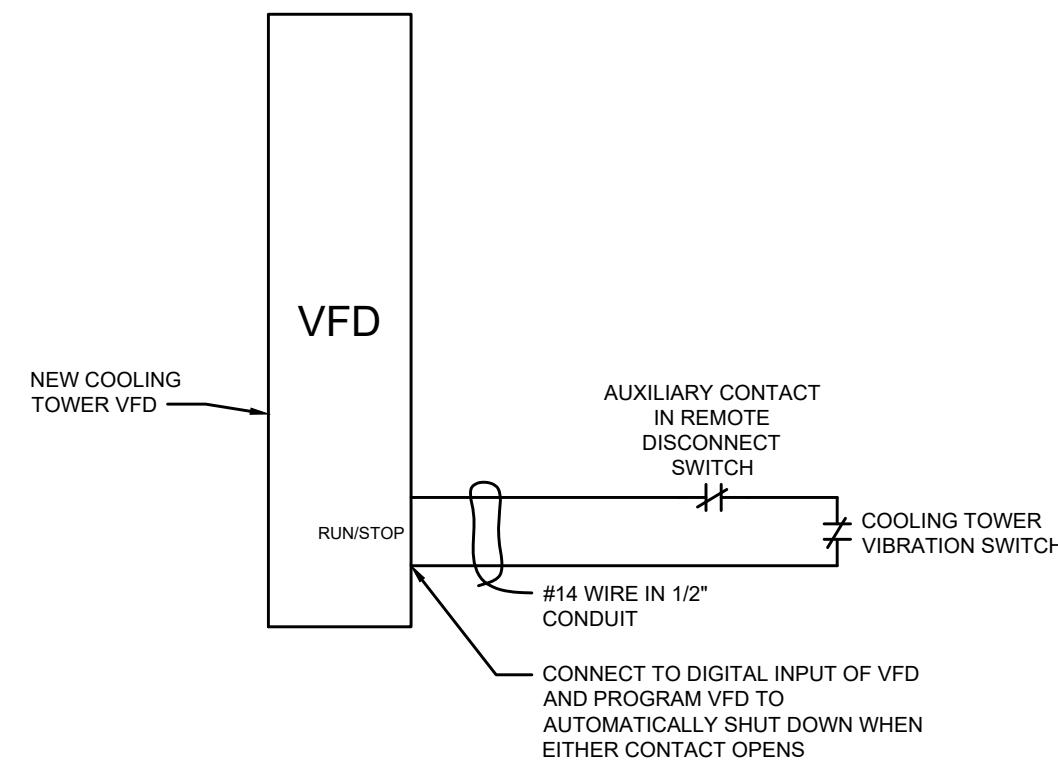
1 HEAT TRACE WIRING DETAIL  
NTS



2 HEAT TRACE DETAIL  
NTS



3 HEAT TRACE MOUNTING DETAIL - LARGE VALVES  
NTS



4 COOLING TOWER VFD CONTROL DETAIL  
NTS

PANELBOARD: HCPNLA				FED FROM:				LINE-SIDE LUGS: MECHANICAL			
BUS AMPS: 100A				AIC RATING:				EQUIPMENT GROUND BUS			
MAIN SIZE/TYPE: 100A MCB				MOUNTING:							
VOLTS/PHASE: 208Y120V, 3PH, 4W				SERVES:							
SECTION: 1				LOCATION:							
CKT NO	DESCRIPTION	VOLT/AMPS/PHASE			BKR	P	VOLT/AMPS/PHASE			DESCRIPTION	CKT NO
		A	B	C			A	B	C		
1	200 C-P-1				20	1				MAIN	
3	200 C-P-2				20	1					
5	200 C-P-3				20	1					
7	200 C-P-4				20	1				SPARE	2
9	DEF CRT-1				20	1				LTG RM 1-CP2004 1-CP2005	4
11	DEF CRT-1				15	1				LTG RM 1-CP2005	6
13	DEF CRT-2				25	1				LTG RM 1-CP2000 1-CP2002	8
15	RCPTS ROOF				20	1				RCPT CENTRAL PLANT	10
17	RCPTS POLE				20	1				RCPT CENTRAL PLANT	12
19	RCPTS POLE				20	1				RCPT CENTRAL PLANT	14
21	HEAT TRACE				20	2				REIGATION CONTROL	16
23	HEAT TRACE				GFE	1				CT LEVEL CONTROL	18
25	HEAT TRACE				GFE	2				HEAT TRACE CT-3	20
27	HEAT TRACE				GFE	3				HEAT TRACE CT-3	22
29	HEAT TRACE				20	2				SPARE	24
31	RCPTS POLE				GFE	2				SPARE	26
33	RCPTS POLE				20	1				SPARE	28
35	SPARE				40	2				SPARE	30
37	SPARE				20	1				SPARE	32
39	SPARE				20	1				SPARE	34
41	SPARE				20	1				SPARE	36
										SPARE	38
										SPARE	40
										SPARE	42
SUBTOTAL										SUBTOTAL	
TOTAL PHASE A - VA		LOAD	CONN VA	DF	LOAD	CONN VA	DF				
AMPS		COOLING [C]		1.00	REFRG [F]		1.00				
TOTAL PHASE B - VA		HEATING [H]		0	SIGNAGE [S]		1.25				
AMPS		LIGHTING [L]		1.25	KITCHEN [K]		1.00				
TOTAL PHASE C - VA		RECEPTACLES [R]		1.0/5	EXISTING [E]		1.00				
AMPS		MOTORS [M]		1.00	LRG MOTOR		1.25				
TOTAL PNLBD - VA		SURF HEAT [H]		1.00	SHOW WIND [W]		1.25				
AMPS		MISC EQUIP [E]		1.00	LTG TRACK		1.00				

PROVIDE NEW BREAKER WITH  
GROUND FAULT EQUIPMENT  
PROTECTION (GFE)

VFD SCHEDULE									
MARK	VFD HORSEPOWER	MANUFACTURER	MODEL	VOLTAGE/ PHASE	ENCLOSURE	INTEGRAL INPUT DISCONNECTING MEANS	MAXIMUM OUTPUT FREQUENCY	BYPASS	MINIMUM SHORT-CIRCUIT RATING (SCCR)
CWP-1	60	DANFOSS GRAHAM	VLT HVAC FC102	480V - 3 PH	NEMA 1	CIRCUIT BREAKER	60	NONE	100,000
CWP-2	60	DANFOSS GRAHAM	VLT HVAC FC102	480V - 3 PH	NEMA 1	CIRCUIT BREAKER	60	NONE	100,000
CWP-3	60	DANFOSS GRAHAM	VLT HVAC FC102	480V - 3 PH	NEMA 1	CIRCUIT BREAKER	60	NONE	100,000
CT-3	30	DANFOSS GRAHAM	VLT HVAC FC102	480V - 3 PH	NEMA 1	CIRCUIT BREAKER	60	NONE	100,000

- VFD SCHEDULE NOTES:
- MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY
  - REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURER LISTED IS THE BASIS FOR THE DESIGN.
  - PROVIDE VFDs WITH CARD TO COMMUNICATE WITH BUILDING MANAGEMENT SYSTEM (COORDINATE WITH CONTROLS CONTRACTOR):  
BACnet MS/TP = JOHNSON CONTROLS  
BACnet IP = SIEMENS

LEE'S SUMMIT MEDICAL CENTER  
CHILLER PLANT REVISIONS  
2100 BLUE PKWY, LEE'S SUMMIT, MO 64063



REVISIONS

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ELECTRICAL DETAILS AND SCHEDULES

E500



# LEE'S SUMMIT MEDICAL CENTER CHILLER PLANT REVISIONS

2100 BLUE PKWY, LEE'S SUMMIT, MO 64063



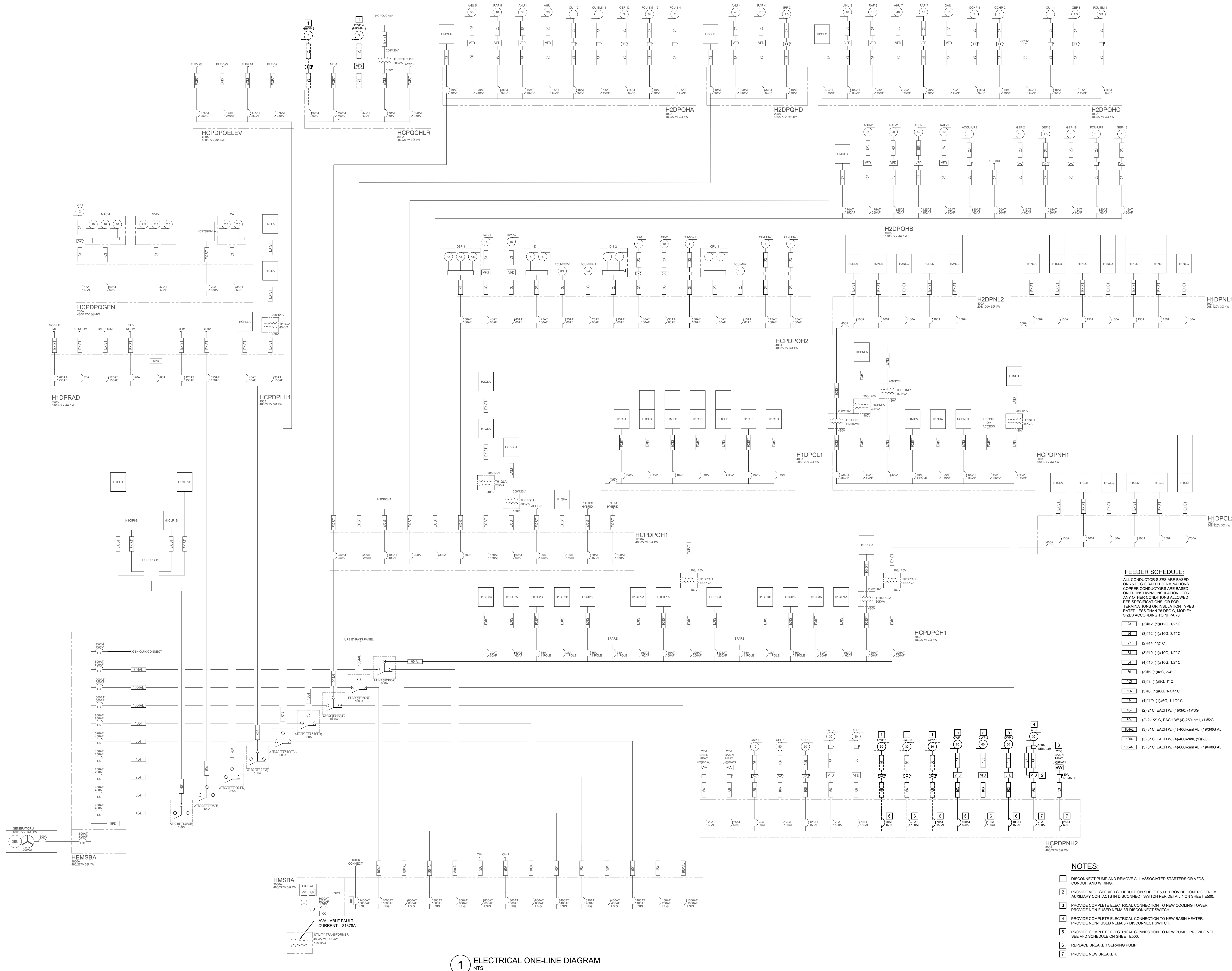
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LICENSE # PE-2020028047  
PROFESSIONAL SEAL

## REVISIONS

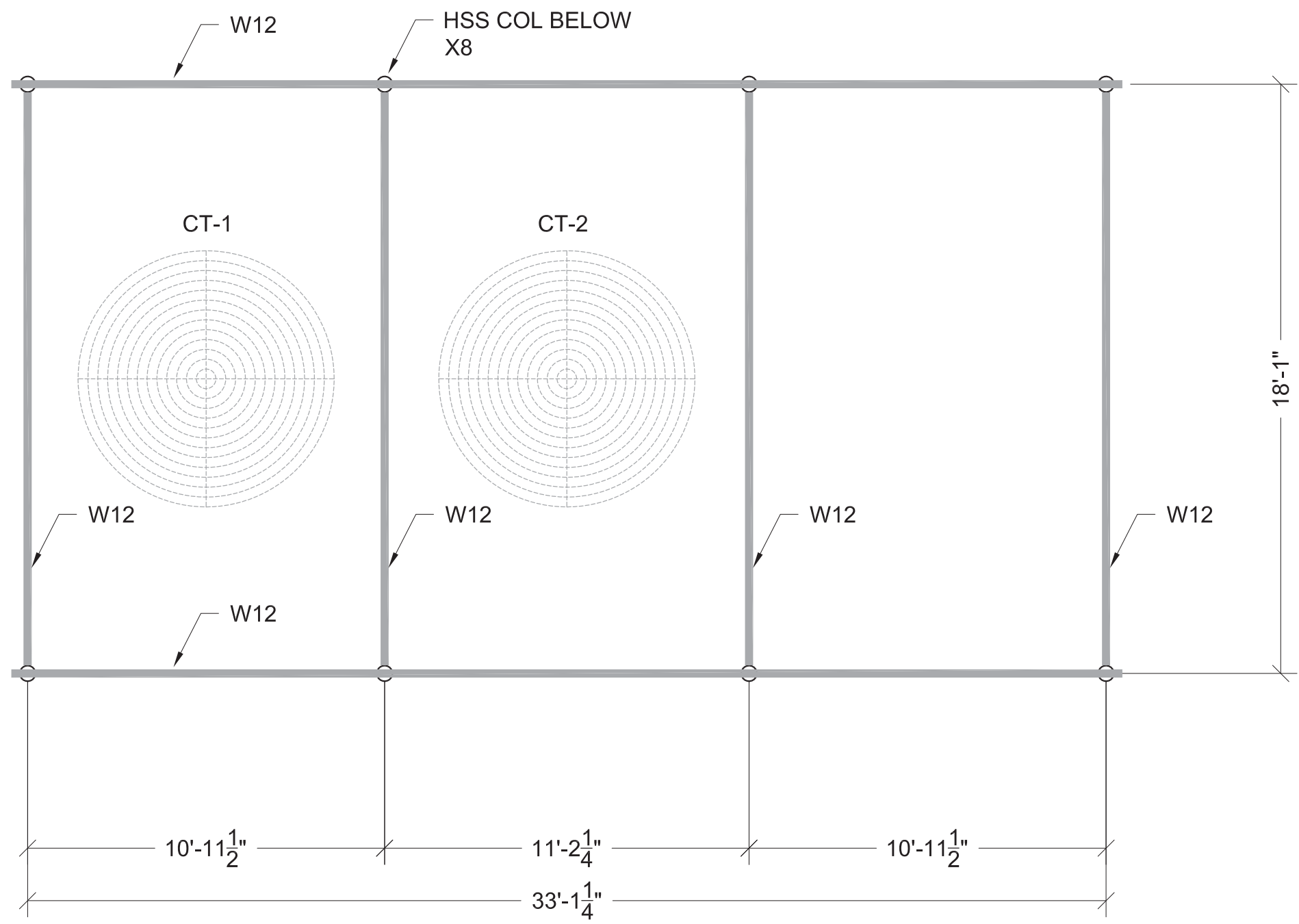
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ELECTRICAL 1-LINE  
DIAGRAM

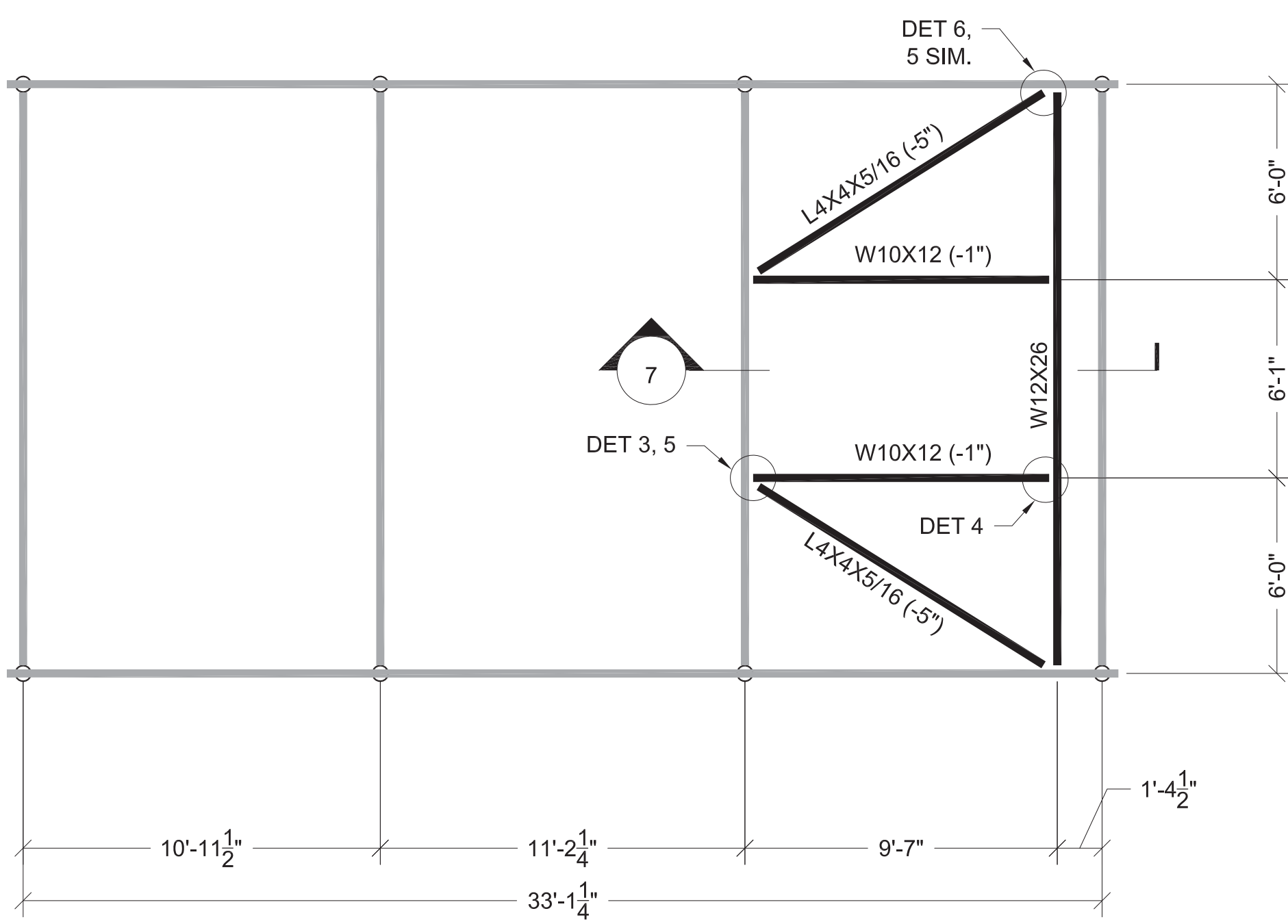
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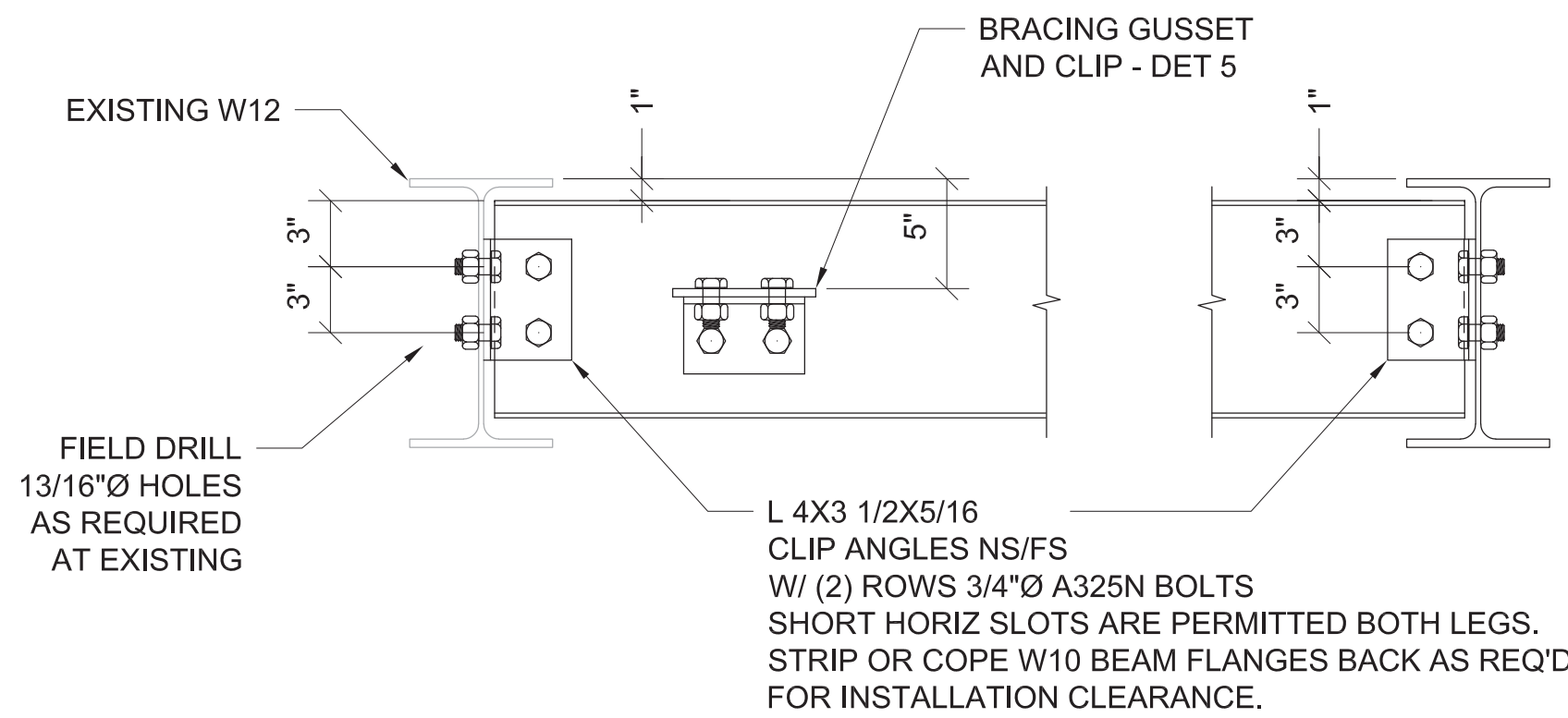
1 ELECTRICAL ONE-LINE DIAGRAM  
NTS



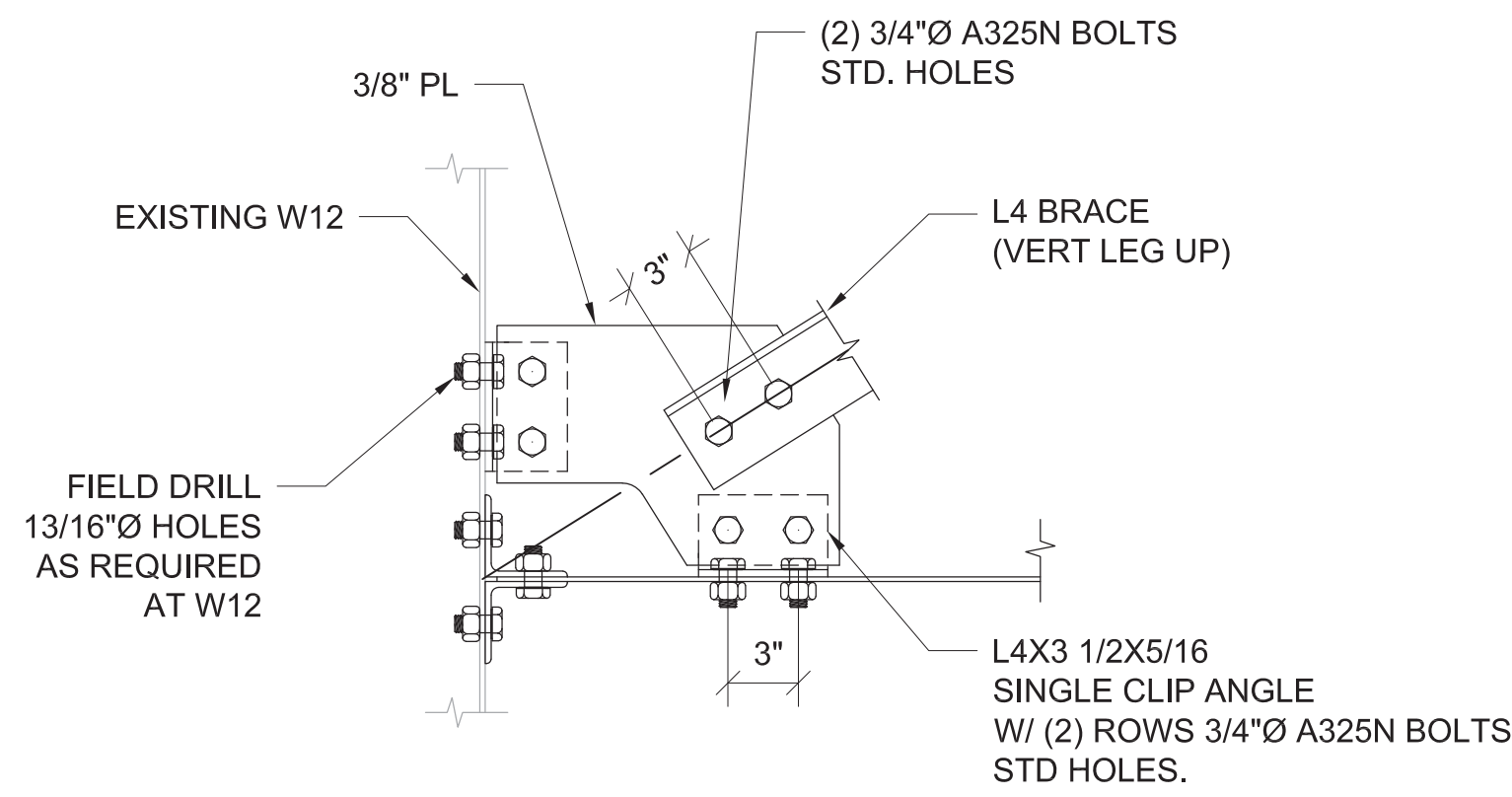
1 EXISTING TOWER SUPPORT PLAN  
NTS



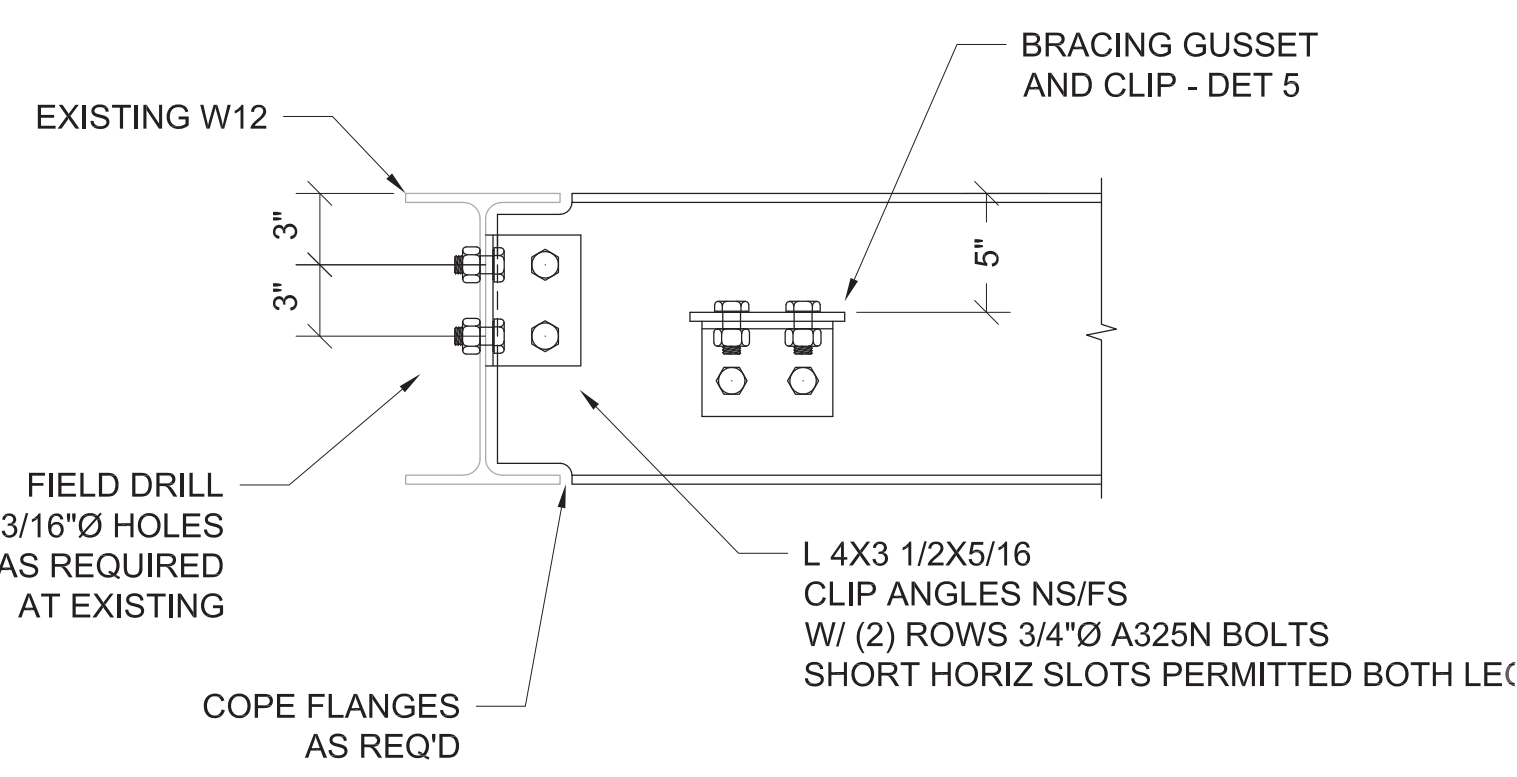
2 FRAMING AT CT-3  
NTS  
CT-3  
20,600# OPERATING WEIGHT



3 W10 TO EXISTING W12  
SCALE: 1 1/2"=1'-0"



5 BRACING CONNECTION  
SCALE: 1 1/2"=1'-0"



6 W12 TO EXISTING W12  
SCALE: 1 1/2"=1'-0"



7 SECTION AT TOWER MOUNTS  
SCALE: 1 1/2"=1'-0"

#### GENERAL REQUIREMENTS

- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN OR INFERRED BY THESE DRAWINGS.
- THE GENERAL CONTRACTOR SHALL REVIEW AND COMPARE THE STRUCTURAL DRAWINGS WITH ALL OTHER CONTRACT DOCUMENTS VERIFYING ALL DIMENSIONS AND ELEVATIONS, AND REPORT ANY DISCREPANCIES, ERRORS OR OMISSIONS TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- THE GENERAL CONTRACTOR SHALL REVIEW THE SITE CONDITIONS BEFORE MOBILIZING AND BEGINNING THE WORK. REPORT ANY CONDITIONS TO THE ENGINEER THAT MAY HAMPER OR PREVENT THE WORK FROM PROGRESSING AS INTENDED BY THESE DRAWINGS.
- DIMENSIONS OF EXISTING STRUCTURE SHOWN ON THIS DRAWING ARE APPROXIMATE. CONTRACTOR MUST TAKE FIELD MEASUREMENTS PRIOR TO STEEL DETAILING AND FABRICATION TO ENSURE FIT-UP OF NEW CONSTRUCTION WITH EXISTING STEEL STRUCTURE.
- CONTRACTOR SHALL INSPECT ALL EXISTING BOLTED CONNECTIONS OF EXISTING TOWER SUPPORT STRUCTURE AND ENSURE ALL BOLTS ARE SNUG TIGHT MINIMUM TENSIONING.

#### STRUCTURAL STEEL AND MISCELLANEOUS STEEL:

- STEEL MATERIALS, U.N.O. ON THE DRAWINGS:

WIDE FLANGE STEEL SHAPES	ASTM A572-50 OR A992-50
ANGLE AND CHANNEL SHAPES	ASTM A36 OR A572-50
PLATES AND BARS	ASTM A572-50
ROUND HSS SHAPES	ASTM A500, GR B
- UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL MEMBERS SHALL BE SUPPLIED HOT DIPPED GALVANIZED MEETING ASTM A123 STANDARD SPECIFICATION FOR ZINC (HOT DIP GALVANIZED) COATINGS OF IRON AND STEEL. REPAIR ALL DAMAGED GALVANIZED SURFACES AND FIELD WELDED AREAS WITH GALVANIZING REPAIR PAINT ACCORDING TO ASTM A780 AND MANUFACTURERS WRITTEN INSTRUCTIONS.
- ALL BOLTS SHALL BE ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS, SIZE AS SHOWN AND SHALL BE INSTALLED TO SNUG TIGHT CONDITION. ALL BOLTS AND CONNECTING HARDWARE SHALL BE SUPPLIED GALVANIZED IN ACCORDANCE WITH ASTM A153. AT CONTRACTORS OPTION, GALVANIZED TWIST OFF TENSION CONTROL BOLTS ASTM F1852 MAY BE SUBSTITUTED FOR STANDARD BOLTS. TENSION CONTROL BOLTS SHALL HAVE ENDS TOUCHED UP PER NOTE 2 AFTER TENSIONING AND SPLINE REMOVAL.
- ALL STRUCTURAL CONNECTIONS SHALL BE BOLTED OR WELDED AS NOTED ON THE DRAWINGS.
- ALL WELDING SHALL CONFIRM TO THE CURRENT AMERICAN WELDING SOCIETY SPECIFICATIONS (AWS) AND BE PERFORMED BY AWS CERTIFIED WELDERS.
- ALL STEEL ITEMS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO STEEL FABRICATION. SUBMIT SHOP DRAWINGS SHOWING LAYOUT, ALL MATERIAL SIZES AND DIMENSIONS, ALL WELDS USING STANDARD AWS SYMBOLS, APPROPRIATE DETAILS AND ERECTION INFORMATION. ALLOW (3) WORKING DAYS FOR REVIEW AND RETURN OF SHOP DRAWINGS PRIOR TO FABRICATION.

#### SPECIAL INSPECTIONS STATEMENT:

UNLESS SPECIFICALLY WAIVED BY THE BUILDING OFFICIAL DUE TO THE MINOR NATURE OF THIS CONSTRUCTION, SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC). ALL SPECIAL INSPECTORS SHALL BE QUALIFIED FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION, AND MUST BE APPROVED BY THE BUILDING OFFICIAL. REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AS REQUIRED BY THE LOCAL JURISDICTION AUTHORITY.

- STRUCTURAL STEEL: PERIODIC INSPECTION FOR MATERIAL VERIFICATIONS OF HIGH STRENGTH BOLTS, NUTS AND WASHERS. PERIODIC INSPECTION OF BEARING-TYPE BOLTED CONNECTIONS. BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION AND OBSERVED ONLY TO ENSURE THAT ALL PLIES OF THE CONNECTED ELEMENT HAVE BEEN BROUGHT INTO SNUG CONTACT. QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS SHALL BE VERIFIED PRIOR TO THE START OF WORK. PERIODIC INSPECTIONS SHALL BE MADE OF ALL SINGLE PASS FIELD WELDS. SPECIAL INSPECTION IS REQUIRED FOR SHOP FABRICATED MEMBERS UNLESS THE FABRICATOR IS REGISTERED AND APPROVED TO PERFORM WORK WITHOUT SPECIAL INSPECTIONS PER 1704.2.5.2.