

# CENTRAL PLANT WATER COOLED CHILLER REPLACEMENT SOUTHERN UNIVERSITY AT NEW ORLEANS

NEW ORLEANS, LOUISIANA

PROJECT NO.: 19-671-22-01, F.19002575  
STATE BUILDING ID: S00304 - CENTRAL PLANT  
SITE CODE: 1-36-007

STATE OF LOUISIANA  
JEFF LANDRY, GOVERNOR

DIVISION OF ADMINISTRATION  
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OFFICE OF FACILITY PLANNING AND CONTROL  
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SOUTHERN UNIVERSITY SYSTEM  
KENNETH DAWSON, SYSTEM DIRECTOR OF FACILITY PLANNING

BID DOCUMENTS  
06/13/2025



VINCITY MAP



PROJECT AREA

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MECHANICAL	
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#### SEAL



#### PROJECT INFORMATION

CHILLER REPLACEMENT  
CENTRAL PLANT  
SUNO  
NEW ORLEANS, LA

#### REVISIONS


#### SHEET INFORMATION

DATE:	06/13/2025
DRAWN BY:	CTD/SPG
CHECKED BY:	LJB/SPG
PROJECT #:	19-671-22-01

#### SHEET NAME

COVER SHEET

#### SHEET NUMBER

COVER

ALL WORK BY CONTRACTORS SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, INCLUDING THE CURRENT INTERNATIONAL ENERGY CONSERVATION CODE.

MATERIALS FURNISHED UNDER THE CONTRACT SHALL BE NEW & SHALL BE THE UL LABEL WHERE APPLICABLE, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS & WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE YEAR AFTER COMPLETION OF THE PROJECT.

CONTRACTOR SHALL INSTALL SYSTEMS WITHOUT INTERFERENCE & PROVIDE MANUFACTURER'S RECOMMENDED AIR & SERVICE CLEARANCES. CONTRACTOR SHALL COORDINATE WITH ALL TRADES & DISCIPLINES.

MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR ON LOCATION OF ALL FIRE & SMOKE WALL PENETRATIONS. GENERAL CONTRACTOR SHALL FRAME OUT OPENING AS REQUIRED FOR LIFE SAFETY DAMPERS. PROVIDE LIFE SAFETY DAMPERS WHERE SHOWN ON DRAWINGS AND WHERE REQUIRED BY NFPA AND LOCAL BUILDING CODES.

ALL FIRE DAMPERS SHALL BE 2-HOUR RATED UNLESS SPECIFIED OR NOTED OTHERWISE ON DRAWINGS AND/OR SPECIFICATIONS.

SEAL ALL FIRE WALL PENETRATIONS (DUCT, PIPE, ETC.) WITH UL-LISTED FIRE CAULK IN ACCORDANCE WITH NFPA 101.

MECHANICAL CONTRACTOR SHALL COORDINATE BETWEEN ELECTRICAL AND OTHER TRADES FOR PENETRATIONS AT WALLS, FLOORS AND ROOFS. EXACT EQUIPMENT LOCATIONS AND REQUIRED EQUIPMENT SERVICE AND AIR FLOW CLEARANCE.

INSTALLATION OF DUCTWORK SHALL TAKE PRECEDENCE OVER INSTALLATION OF PLUMBING PIPING THAT IS NOT GRADE SENSITIVE (SEWER, STORM DRAINAGE, GREASE WASTE, ETC.) AND ELECTRICAL CONDUIT. CONTRACTOR TO COORDINATE CEILING SPACE AVAILABLE. EXACT MECHANICAL ROOM LAYOUT, DUCT AND PIPE ROUTING AND EXACT EQUIPMENT LOCATIONS WITH GENERAL ELECTRICAL, STRUCTURAL AND PLUMBING CONTRACTORS. PROVIDE OFFSETS AND TRANSITIONS AT OBSTRUCTIONS WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECT PRIOR TO INSTALLATION OF THERMOSTATS/TEMPERATURE SENSORS ON WALL. COORDINATE THERMOSTATS/TEMPERATURE SENSORS WITH ALL WALL MOUNTED FURNISHINGS (ART, SCREENS, FURNITURE, ETC.). LOCATE THERMOSTATS & TEMPERATURE SENSORS 4' ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL VISIT THE SITE FOR INFORMATION REGARDING ANY WORK REQUIRED TO COMPLETE THE SCOPE OF WORK FOR THE PROJECT PRIOR TO BID. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR BIDDERS AWARDED THE WORK FOR FAILURE TO EXAMINE SITE PRIOR TO BID.

CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND VISIT THE SITE AND COORDINATE DUCT, PIPE AND EQUIPMENT SIZES AND ROUTING. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER WHERE DISCREPANCIES OCCUR BETWEEN CONTRACT DOCUMENTS AND EXISTING CONDITIONS.

CONTRACTOR SHALL REVIEW CEILING SPACE AND MECHANICAL ROOM SPACE AVAILABLE FOR DUCT, PIPING AND EQUIPMENT AND MAKE REQUIRED ALLOWANCES FOR THE SIZE AND ROUTING OF DUCT, PIPING AND EQUIPMENT.

MECHANICAL CONTRACTOR TO REVIEW CEILING SPACE AVAILABLE AND VERIFY FIELD MEASUREMENTS AND COORDINATION DRAWINGS PRIOR TO FABRICATING DUCT. BRANCH DUCT RUNS SHOWN DIAGMATICALLY; CONTRACTOR SHALL ROUTE BRANCH DUCT RUNS IN MOST DIRECT MANNER.

COORDINATE EXACT LOCATION OF ALL SLAB, FLOOR, WALL AND ROOF PENETRATIONS WITH EXISTING STRUCTURAL BEAMS, JOIST AND COMPONENTS. DO NOT CUT OR MODIFY EXISTING STRUCTURAL COMPONENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER.

CONTRACTOR SHALL VERIFY EQUIPMENT TO BE SUPPLIED TO PROJECT CAN BE INSTALLED IN SPACE PROVIDED AND ALL SERVICE AND AIRFLOW CLEARANCES MAINTAINED PRIOR TO ORDERING EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MODIFICATIONS REQUIRED FOR EQUIPMENT THAT IS SUPPLIED THAT IS DIFFERENT THAN EQUIPMENT THAT IS BASIS OF DESIGN.

UNDER NO CIRCUMSTANCES SHALL EQUIPMENT AND RELATED SYSTEM COMPONENTS FOUND POSITIVE FOR MOLD, MILDEW, ASBESTOS, HARMFUL BACTERIA OR ANY OTHER CONTAMINATION BE PLACED INTO SERVICE.

INSTALL DUCT SLEEVES IN WALLS AS HIGH AS POSSIBLE. DUCT SLEEVE SHALL EXTEND PAST WALL PENETRATION ON BOTH SIDES MINIMUM 2". RETURN AIR TRANSFER SLEEVES SHALL BE PROVIDED WITH TWO (2) DUCT ELBOWS.

COORDINATE ALL UNDERGROUND PIPING & WORK WITH EXISTING SYSTEMS, INCLUDING EXISTING UTILITIES, SEWER, GAS DOMESTIC WATER, CHILLED/HEATING WATER, ELECTRIC DUCT BANKS AND POWER. NOT ALL EXISTING SYSTEMS SHOWN. COORDINATE ALL EXISTING SYSTEMS PRIOR TO ANY WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND REPAIRING BACK TO THE CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONSTRUCTION CONTRACT.

MODEL NUMBERS SPECIFIED/DESCRIBED REPRESENT THE TYPE AND QUALITY OF EQUIPMENT REQUIRED TO MEET THE DESIGN REQUIREMENTS. CONTRACTOR SHALL REVIEW SUBMITTALS AND VERIFY EQUIPMENT SIZES, QUALITY AND PERFORMANCE REQUIREMENTS MEET SPECIFICATIONS PRIOR TO SUBMITTING FOR APPROVAL. EQUIPMENT THAT DIFFERS FROM BASIS OF DESIGN IS SUBJECT TO REJECTION. CONTRACTOR TO COORDINATE ALL DIFFERENCE IN EQUIPMENT WITH STRUCTURAL, ELECTRICAL AND PLUMBING CONTRACTORS.

ALL CONDENSATE LINES SHALL BE RIGID COPPER, INSULATED WITH CELLULOS FIBER UNLESS NOTED OTHERWISE OR SUBMITTED AND APPROVED BY MECHANICAL ENGINEER. SUPPORT WITH UNISTRUT PIPE EVERY 4' AND AT TURNS. PROVIDE NEOPRENE SLEEVES BETWEEN UNISTRUT AND COPPER CONDENSATE LINE.

DUCT SIZES SHOWN ARE SHEET METAL SIZES. ALLOWANCES HAVE BEEN INCLUDED FOR INTERNAL LINER WHERE APPLICABLE.

COORDINATE EXACT LOCATION OF AIR DEVICES WITH NEW AND EXISTING LIGHTS TO BE INSTALLED PRIOR TO CONSTRUCTION.

EXPOSED DUCTWORK SHALL BE PAINT GRIPPED SHEET METAL UNLESS INDICATED OTHERWISE. ALL EXPOSED DUCT TO BE PAINTED IN FIELD BY PAINTING CONTRACTOR DURING CONSTRUCTION. COORDINATE WITH ARCHITECT & MECHANICAL ENGINEER PRIOR TO INSTALLATION OF EXPOSED DUCT AND COLOR. EXPOSED DUCTWORK SHALL BE FREE OF SIZE MARKS OR ASSEMBLY CODE NUMBERS. ALL MARKS SHALL BE ON THE INSIDE OF DUCTWORK. KEEP OUTSIDE SURFACES OF DUCT CLEAN DURING FABRICATION. BANDS SHALL JOIN ON TOP, CONCEALED FROM NON-VIEW OF THE DUCT AND SPIRALS SHALL BE CONTINUOUS. THREADED RODS FROM HANGER STRAPS SHALL BE NEATLY CLIPPED AND SECURED WITHOUT EXCESS. GREATER ATTENTION TO APPEARANCE FOR EXPOSED DUCT IS EXPECTED AND DELETED/SCARRED DUCTS SHALL NOT BE ACCEPTABLE.

PROVIDE ELECTRICAL DISCONNECTS FOR MECHANICAL EQUIPMENT (FAN BOXES, FANS, VFD'S, ETC.) FACTORY INSTALLED BY EQUIPMENT MANUFACTURER UNLESS NOTED OTHERWISE. COORDINATE WITH ELECTRICAL CONTRACTOR.

DO NOT ROUTE PIPING CONTAINING WATER OVER ELECTRICAL EQUIPMENT.

PROVIDE PERMANENT LABELS FOR ALL SCHEDULED EQUIPMENT. LABELS SHALL BE MINIMUM 3/8" ENGRAVED BLACK LETTERS ON WHITE BACKGROUND, CONSTRUCTED OF MINIMUM 1" WIDE, LENGTH AS REQUIRED LAMINATED PLASTIC. SECURELY FASTENED TO EQUIPMENT WITH STAINLESS STEEL OR NON-CORRODING FASTENING. STOCK ON UNITS NOT ACCEPTABLE.

EXHAUST OUTLETS SHALL BE LOCATED MINIMUM 12" FROM ANY AIR INTAKE OR OPERABLE BUILDING OPENING.

INDOOR MINISPLITS, FAN COIL UNITS AND CEILING CASSETTES SHALL HAVE GRAVITY DRAINAGE WHERE POSSIBLE. PROVIDE WITH INTEGRAL CONDENSATE PUMPS WHERE NOT POSSIBLE.

RETURN AIR GRILLES OPEN TO RETURN AIR PLENUM WITH SLIGHT ATTENUATING BOW ON REAR OF GRILLE (RIGID DUCT WITH INSULATED LINER & TWO ELBOWS, END OPEN TO RETURN AIR PLENUM). CONTRACTOR HAS OPTION TO PROVIDE PRICE MODEL #RAC RETURN AIR CANOPY ON REAR OF RETURN AIR GRILLES OPEN TO RAC PLENUM IN LINE OF SLOPE ATTENUATING BOW.

ELECTRONIC BALANCING DAMPERS, MANUAL DAMPER AT INACCESSIBLE LOCATION

30.1. PROVIDE REMOTE BALANCING DAMPER WITH POSITION INDICATOR AT INACCESSIBLE MANUAL VOLUME DAMPERS

30.2. INACCESSIBLE LOCATIONS:

30.2.1. ABOVE GYPSUM BOARD/HARD CEILING

30.2.2. WHERE LOCATED HIGHER THAN 4'-0" ABOVE ACCESSIBLE CEILING LINE

30.2.3. WHERE LOCATED ABOVE 14'-0" FROM FINISHED FLOOR

30.2.4. REFER TO ARCHITECTURAL REFLECTED CEILING DRAWINGS FOR REFLECTED CEILING PLAN

30.3. ELECTRONIC BALANCING DAMPER SHALL BE PROVIDED WITH POSITION INDICATOR AND SHALL BE GREENECKE MODEL RBR-50 (ROUND) & RBD-10 (RECTANGULAR) OR APPROVED EQUAL, UNLESS INDICATED OTHERWISE.

30.4. REMOTE BALANCING DAMPER SHALL BE 12 VOLT DC POWER BALANCE SYSTEM (DAMPER, PULSE ACTUATOR, CAT 5 CABLE, WALL OR CEILING PLATE AND HAND HELD POWER PACK). PROVIDE WALL/CEILING ACCESS PORT ON WALL WITHIN CLOSEST MECHANICAL ROOM, OR ABOVE ACCESSIBLE CEILING MOUNTED ON WALL. ALL ACCESS PORTS TO BE PROPERLY LABELLED NUMERICALLY BY RESPECTIVE AIR SYSTEM & ROOM DAMPER SERVICES. COORDINATE WITH MECHANICAL ENGINEER PRIOR TO LABELING & COORDINATE LOCATION WITH MECHANICAL ENGINEER & ARCHITECT PRIOR TO ANY WORK. PROVIDE ACCESSIBLE CEILINGS. PROVIDE TILE IDENTIFICATION WHERE LOCATED ABOVE CEILING. PROVIDE DRAWING IDENTIFYING PORT LOCATION & PORT SCHEDULE AS PART OF CLOSE OUT DOCUMENTS.

PROVIDE UL LISTED SMOKE DETECTORS IN THE MAIN SUPPLY DUCT AND RETURN ON THE DOWNSTREAM SIDE OF THE FILTERS IN ALL RECIRCULATING AIR SYSTEMS HANDLING OVER 2000 C.F.M. NOTE: SMOKE DETECTORS TO BE WIRED TO BUILDING FIRE ALARM SYSTEM BY FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR IS TO PROVIDE AND INSTALL ALL WIRING, TERMINATIONS, ETC. TO PROVIDE A COMPLETE, PROPERLY FUNCTIONING AND OPERATING SYSTEM.

PROVIDE SMOKE DAMPER IN THE MAIN SUPPLY & RETURN DUCT IN AIR HANDLING UNITS HANDLING OVER 15,000 CFM. SMOKE DAMPERS SHALL BE INTERCONNECTED TO SMOKE DETECTORS.

PROVIDE ACCESS PANELS TO EQUIPMENT VALVES, DAMPERS, OR LOCATED ABOVE ANY INACCESSIBLE CEILING. ACCESS PANELS SHALL BE LARGE ENOUGH FOR ALL REQUIRED MAINTENANCE, ADJUSTMENT, ETC. PROVIDE MULTIPLE ACCESS PANELS AS REQUIRED. COORDINATE COLOR AND FINISH WITH ARCHITECT. PROVIDE AIR OR SERVICE RATED ACCESS PANELS WHERE REQUIRED IN RATED CEILINGS. REFERENCE ARCHITECTURAL DRAWINGS FOR RATED CEILING LOCATIONS. WHERE ACCESS PANELS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLAN, COORDINATE EXACT LOCATION OF EQUIPMENT, DEVICES, ETC. WITH ACCESS PANEL LOCATIONS.

PROVIDE TEMPORARY CAPS/PLUGS/COVERING ON ALL OPEN END PIPING & DUCT DURING CONSTRUCTION TO PREVENT DIRT/OBSRIS FROM ENTERING PIPEDUCT SYSTEMS.

PROVIDE PROTECTIVE LOCKABLE THERMOSTAT COVERS FOR THERMOSTATS. COORDINATE WITH OWNER.

MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR ON LOCATION OF ALL FLOOR DRAINS & HUB DRAINS AS NOT TO INTERFERE WITH EQUIPMENT & EQUIPMENT PADS. COORDINATE NEW FLOOR DRAIN & HUB LOCATION WHERE EQUIPMENT DOES NOT ALLOW FOR THE INSTALLATION SHOWN FOR FLOOR. COORDINATE HEIGHT OF HUB DRAINS FOR FAN COIL UNITS & CEILING CASSETTES.

PROVIDE TRANSITIONS FROM REAR OF ALL GRILLES TO BRANCH DUCTS AND TO ALL EQUIPMENT AS REQUIRED. REFER TO CONSTRUCTION DOCUMENTS FOR SIZES OF GRILLES AND DUCTS.

PRESSURE TEST ALL REUSED/RETORED PIPING SYSTEMS. TESTING SHALL BE PERFORMED AT NORMAL SYSTEM OPERATING PRESSURE UNLESS INDICATED/SPECIFIED OTHERWISE. REPAIR AND RETEST AS REQUIRED UNTIL SYSTEMS ARE PROVEN TIGHT WITHOUT LEAKS.

ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS STRAIGHT.

REPAIR PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATION. PROVIDE ACCESS TO ALL FLOOR DRAINS & HUB DRAINS AS NOT TO INTERFERE WITH EQUIPMENT & EQUIPMENT PADS. COORDINATE NEW FLOOR DRAIN & HUB LOCATION WHERE EQUIPMENT DOES NOT ALLOW FOR THE INSTALLATION SHOWN FOR FLOOR. COORDINATE HEIGHT OF HUB DRAINS FOR FAN COIL UNITS & CEILING CASSETTES.

REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO AC308. PART ENTITLED "CONSTRUCTION REQUIREMENTS": COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3,000 PSI. TOTAL AIR CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.

COORDINATE ALL EQUIPMENT CONNECTION WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.

MINIMUM DUCT/PIPE CLEARANCE PAD SHALL BE 4 INCHES. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 INCHES ON EACH SIDE UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.

INSTALL TRANSITION DUCT FROM INLET AND OUTLET OF EQUIPMENT TO DUCT SIZE SHOWN ON PLANS. CONSULT EQUIPMENT MANUFACTURER FOR INLET AND OUTLET SIZE.

ALL DUCT ELBOWS, BENDS, AND TEES SHALL BE PROVIDED WITH DOUBLE THICKNESS TURNING VANES OR RADIUS ELBOWS UNLESS SHOWN OR NOTED OTHERWISE. ELBOWS IN DISHWASHER, KITCHEN, AND LAUNDRY EXHAUST SHALL BE UNWAVED SMOOTH RADIUS CONSTRUCTION WITH A RADIUS OF 15 TIMES THE WIDTH OF THE DUCT.

PROVIDE ESQUOTIONS AT ALL EXPOSED LOCATIONS WHERE PIPE PENETRATES WALL.

THE CONDENSATE DRAIN LINE SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN CONNECTION TO THE FLOOR DRAIN. ELEVATE UNIT TO ACCOMMODATE P-TRAP.

ALL EQUIPMENT AND DEVICES TO BE FURNISHED AND INSTALLED PER THE REQUIREMENTS OF CONTRACT DRAWINGS, SPECIFICATIONS, MANUFACTURERS' RECOMMENDATIONS, AND ACCORDING TO CODE.















PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS.

UNLESS OTHERWISE NOTED, ALL DUCTWORK IS OVERHEAD. TIE TO UNDERSIDE OF THE STRUCTURE, WITH SPACING FOR INSULATION.

ALL ROOF CURBS SHALL BE INSTALLED TO THE ROOFING STRUCTURE AND FINISH A MINIMUM 12" ABOVE THE FINISHED ROOF FOR COUNTER FLASH ENDORSED BY ROOF MANUFACTURER. ROOF CURBS SHALL BE PITCHED WHERE REQUIRED TO ENSURE EQUIPMENT IS INSTALLED LEVEL.

ALL MISCELLANEOUS ROOFTOP EQUIPMENT SUPPORTS SHALL BE END

## GENERAL

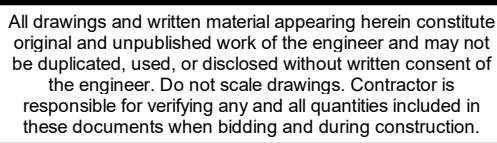
	NEW WORK		SECTION SECTION SYMBOL SHEET NUMBER		GENERAL NOTE
	EXISTING TO REMAIN		DETAIL DETAIL SYMBOL SHEET NUMBER		DEMO NOTE
	NEW EQUIPMENT OR FIXTURE				REVISION TAG
	MATCHLINE		DIFFUSER TAG CFM MARK		TIE INTO
	GRID LINE		SHEET REFERENCE TAG SHEET NUMBER VIEW NUMBER		THERMOSTAT SYMBOL

## DUCTWORK

	INTERNALLY INSULATED DUCT		MITERED 90° ELBOW WITH DOUBLE DEFLECTION TURNING VANES		DUCT WITH FIRE DAMPER
	SUPPLY DUCT		MITERED 45° ELBOW WITH DOUBLE DEFLECTION TURNING VANES		DUCT WITH SMOKE DAMPER
	RETURN DUCT		RADIUS ELBOW		DUCT WITH COMBINATION FIRE/SMOKE DAMPER
	EXHAUST DUCT				DUCT WITH MOTORIZED DAMPER
	RECTANGULAR SUPPLY DUCT UP				DUCT WITH HUMIDIFIER
	RECTANGULAR SUPPLY DUCT DN		RECTANGULAR TRANSITION; SYMMETRIC		DUCT WITH ACCESS DOOR
	RECTANGULAR RETURN DUCT UP		RECTANGULAR TRANSITION; ASYMMETRIC		R/A GRILLE; SEE SCHEDULE FOR SIZE
	RECTANGULAR RETURN DUCT DN		DUCT WITH FLEXIBLE CONNECTION		E/A GRILLE; SEE SCHEDULE FOR SIZE
	RECTANGULAR EXHAUST DUCT UP		45° LEAD-IN WITH MANUAL VOLUME DAMPER		4-WAY S/A DIFFUSER; SEE SCHEDULE FOR SIZE
	RECTANGULAR EXHAUST DUCT DN		45° RECTANGULAR TAP		3-WAY S/A DIFFUSER; SEE SCHEDULE FOR SIZE
	ROUND SUPPLY DUCT UP				2-WAY S/A DIFFUSER; SEE SCHEDULE FOR SIZE
	ROUND SUPPLY DUCT DN		CHANGE IN RECTANGULAR DUCT ELEVATION; RISE		1-WAY S/A DIFFUSER; SEE SCHEDULE FOR SIZE
	ROUND RETURN DUCT UP		CHANGE IN ROUND DUCT ELEVATION; DROP		
	ROUND RETURN DUCT DN		DUCT WITH MANUAL VOLUME DAMPER		
	ROUND EXHAUST DUCT UP		DUCT WITH BACK DRAFT DAMPER		
	ROUND EXHAUST DUCT DN				

M0.0	MECHANICAL COVER SHEET
M1.0	MECHANICAL DEMOLITION PLAN
M1.1	MECHANICAL RENOVATION PLAN
M2.0	MECHANICAL PLAN 3D

ACU AIR CONDITIONING  
ACC AIR COOLED CONDENSING UNIT  
AFF ABOVE FINISHED FLOOR  
AFS AIR FLOW STATION  
AHU AIR HANDLING UNIT  
AMB AMBIENT  
ASU AIR SEPARATOR  
AV AIR VENT  
BAS BUILDING AUTOMATION SYSTEM  
BOD BACKDRAFT DAMPER  
BOL BACKFLOW PREVENTER  
BDD BOTTOM OF DUCT  
BTUH BRITISH THERMAL UNIT PER HOUR  
CC COOLING COIL  
CFH CUBIC FEET PER HOUR  
CFM CUBIC FEET PER MINUTE  
CH CHILLER  
CHWC CHILLED WATER CHEMICAL FEED  
CHWP CHILLED WATER PUMP  
CHR CHILLED WATER RETURN  
CHS CHILLED WATER SUPPLY  
CMP COMPRESSOR  
CP CIRCULATING PUMP  
CU CONDENSING UNIT  
CT COOLING TOWER  
CV COILING VALVE  
CW COLD WATER  
CWCF CONDENSER WATER CHEMICAL FEED  
CWR CONDENSER WATER RETURN  
CWS CONDENSER WATER PUMP  
OWS CONDENSER WATER SUPPLY  
DPT DRY BULB TEMP (DEG F)  
DDC DIRECT DIGITAL CONTROL  
DN DOWN  
DP DIFFERENTIAL PRESSURE  
DPS DIFFERENTIAL PRESSURE SWITCH  
EA EXHAUST AIR  
DX DIRECT EXPANSION  
EX EXHAUST AIR  
EER ENERGY EFFICIENCY RATIO  
EAF EXHAUST FAN  
EL ELEVATION  
ELEC ELECTRICAL  
ENT ENTERING  
ECU ELECTRIC CONDENSING UNIT  
ECR ELECTRIC REFRIGERANT UNIT  
ESP EXTERNAL STATIC PRESSURE  
ET EXPANSION TANK  
EUH ELECTRIC UNIT HEATER  
EVP EVAPORATOR  
EXH EXHAUST  
EXT EXTERNAL  
FA FRESH AIR  
FCFCAU FAN COIL UNIT  
FD FIRE DAMPER  
FEET FEET  
FLM FULL LOAD AMPS  
FPM FEET PER MINUTE  
FV FACE VELOCITY  
GALV GALVANIZED  
GPM GALLONS PER MINUTE  
GPH GALLONS PER HOUR  
GUH GAS UNIT HEATER  
HC HEATING COIL  
HR HORSEPOWER  
HR HOUR  
HWS HEATING WATER SUPPLY  
HWR HEATING WATER RETURN  
ID INSIDE DIAMETER  
IN INCHES  
KW KILOWATTS  
LGV LEAVING  
MG MIXED AIR  
MAX MAXIMUM  
MD MOTORIZED DAMPER  
MECH MECHANICAL  
NG NATURAL GAS  
MIN MINIMUM  
MVD MANUAL VOLUME DAMPER  
NC NORMALLY CLOSED  
NFA NFPA FIRE PROTECTION ASSOC.  
NFC NOT IN CONTRACT  
NO NORMALLY OPEN  
NOM NOMINAL  
NTS NOT TO SCALE  
OA OUTSIDE AIR  
OAF OUTSIDE AIR FAN  
OU OUTSIDE AIR UNITS  
OSKY OUTSIDE STEM AND YOKES  
OZ OUNCES (PRESSURE)  
P PRESSURE DROP  
PTAC PACKAGED TERMINAL AIR CONDITIONER  
PSF POUNDS PER SQUARE INCH  
R RETURN AIR  
REF REFERENCE  
RH RELATIVE HUMIDITY  
RHC REHEAT COIL  
RND ROUND  
RPM REVOLUTIONS PER MINUTE  
RU ROOF TOP UNIT  
SA SUPPLY AIR  
SD SMOKE DAMPER  
SEER SEASONAL ENERGY EFFICIENCY RATIO  
SH SHUTTER  
SP STATIC PRESSURE  
SPEC SPECIFICATIONS  
TEMP TEMPERATURE  
TOP TOP OF DUCT  
TSP TOTAL STATIC PRESSURE  
TYP TYPICAL  
UG UNDERGROUND  
UL UNDERWRITERS LISTED  
VAV VARIABLE AIR VOLUME  
VAVC VARIABLE FREQUENCY DRIVE  
W WITH  
WO WITHOUT  
WB WET BULB (DEG F)



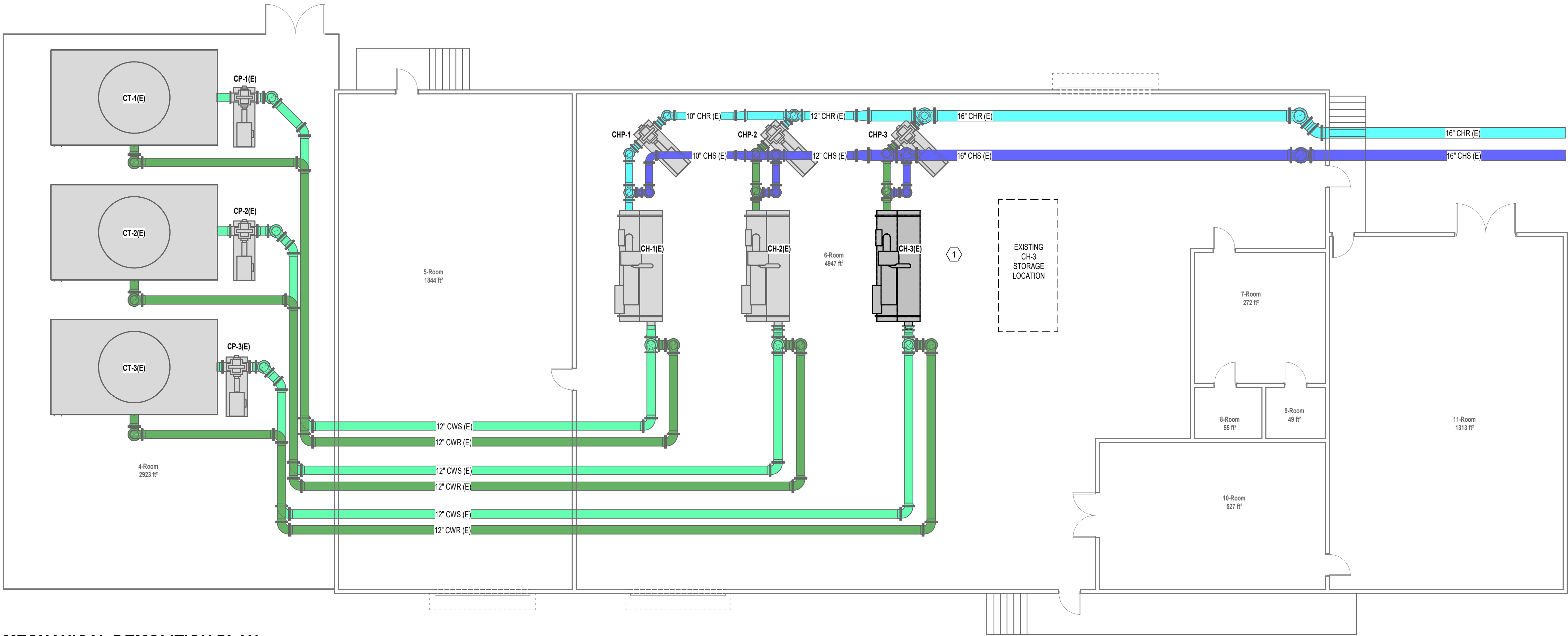
**CHILLER REPLACEMENT  
CENTRAL PLANT  
SUNO**

**SUNO**  
NEW ORLEANS. LA

MARK	COOLING CAPACITY	COMPRESSOR(S)		EVAPORATOR						CONDENSER					ELECTRICAL SERVICE			WEIGHT	MANUFACTURER / MODEL	
		QTY	TYPE	WATER FLOW			EWT	LWT	WATER PD	WATER FLOW			EWT	LWT	WATER PDF	VOLTS	PH			FREQ
				DESIGN	MINIMUM	MAXIMUM				DESIGN	MINIMUM	MAXIMUM								
CH-3(E)	780.0 ton	1	CENTRIFUGAL	1872 GPM	1196 GPM	4091 GPM	55 °F	45 °F	10.30 psi	2340 GPM	2106 GPM	4494 GPM	85 °F	94 °F	14.70 psi	480 V	3	60 Hz	30000 lb	YORK MODEL YKK9K2H9_EVH

MARK	WATER GPM	EWT	TEMP WATER	AMBIENT WB TEMP	STARTER		FAN MOTOR			NO. OF CELLS	TYPE	COMMENTS
					TYPE	LOCATION	HP	VOLTS	PH			
CT-3(E)	2340	95°F	85°F	80°F	VFD	MECH ROOM	60	480 V	3	1	CROSSFLOW	EXISTING COOLING TOWER TO REMAIN

MARK	GPM	DISC. HEAD FT. WATER	RPM	TYPE	ELECTRICAL DATA			TYPE	LOCATION	COMMENTS
					HP	VOLTS	PH			
CHP-3(E)	1872	125	1150	DOUBLE SUCTION	100	480 V	3	VFD	NEAR PUMP	EXISTING PUMP TO REMAIN
CP-3(E)	2340	50	1150	DOUBLE SUCTION	40	480 V	3	COMB	NEAR PUMP	EXISTING PUMP TO REMAIN



**1 MECHANICAL DEMOLITION PLAN**  
1/8" = 1'-0"

**DEMOLITION KEY NOTES:**

1 REMOVE EXISTING CHILLER 3 AND PLACE IN STORAGE WHERE SHOWN.

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CENTRAL PLANT  
SUNO**

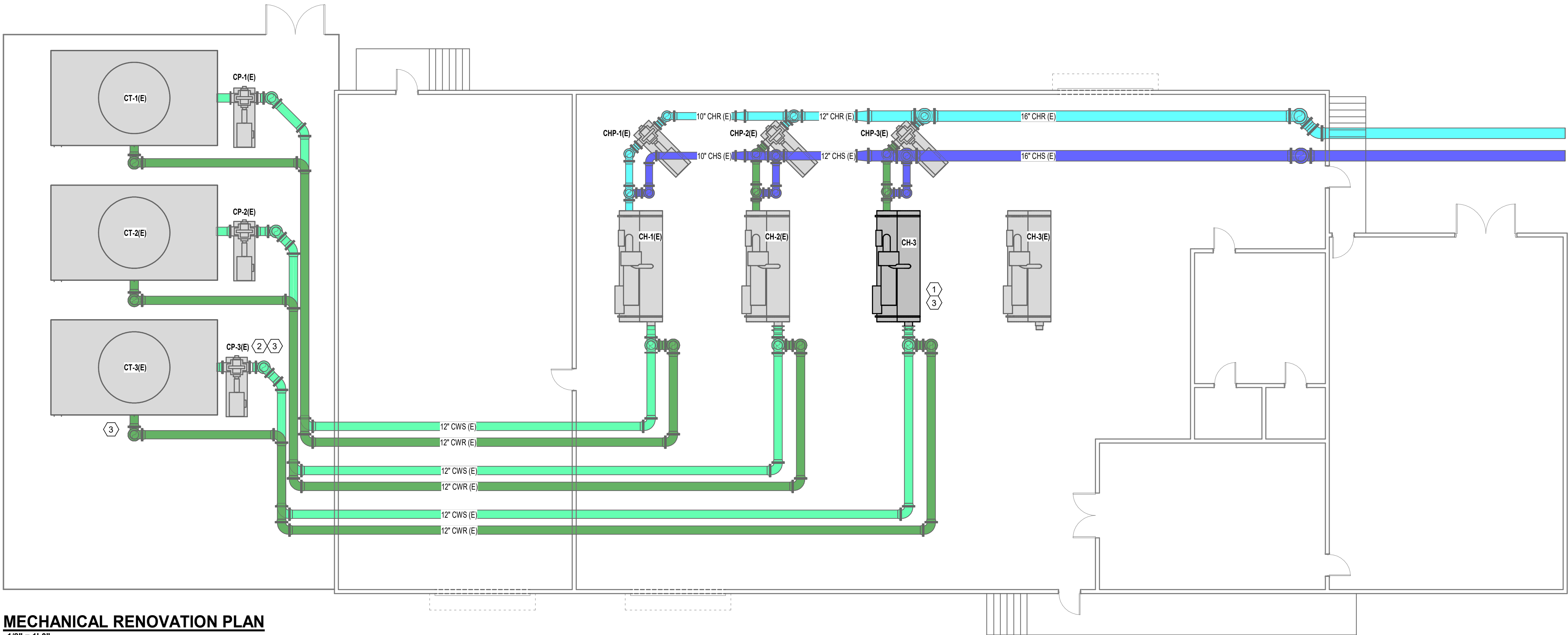
NEW ORLEANS, LA

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SHEET INFORMATION	
DATE:	06/13/2025
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CHECKED BY:	LJB
PROJECT #:	19-671-22-01

SHEET NAME
MECHANICAL DEMOLITION PLAN

SHEET NUMBER
M1.0



# 1 MECHANICAL RENOVATION PLAN

1/8" = 1'-0"

## RENOVATION KEY NOTES:

- 1 PROVIDE NEW CHILLER, CH-3. CONNECT TO EXISTING CHILLED AND CONDENSING WATER PIPING. CONNECT TO EXISTING REFRIGERANT VENT PIPING.
- 2 PROVIDE NEW COUPLING FOR EXISTING CONDENSER WATER PUMP, CP-3(E).
- 3 PROVIDE TEST AND BALANCE FOR NEW CHILLER, CH-3, EXISTING CONDENSER WATER PUMP, CP-3(E) AND EXISTING COOLING TOWER, CT-3(E).

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## SEAL



## PROJECT INFORMATION

**CHILLER REPLACEMENT  
CENTRAL PLANT  
SUNO**

NEW ORLEANS, LA

## REVISIONS

NO.	DESCRIPTION	DATE

## SHEET INFORMATION

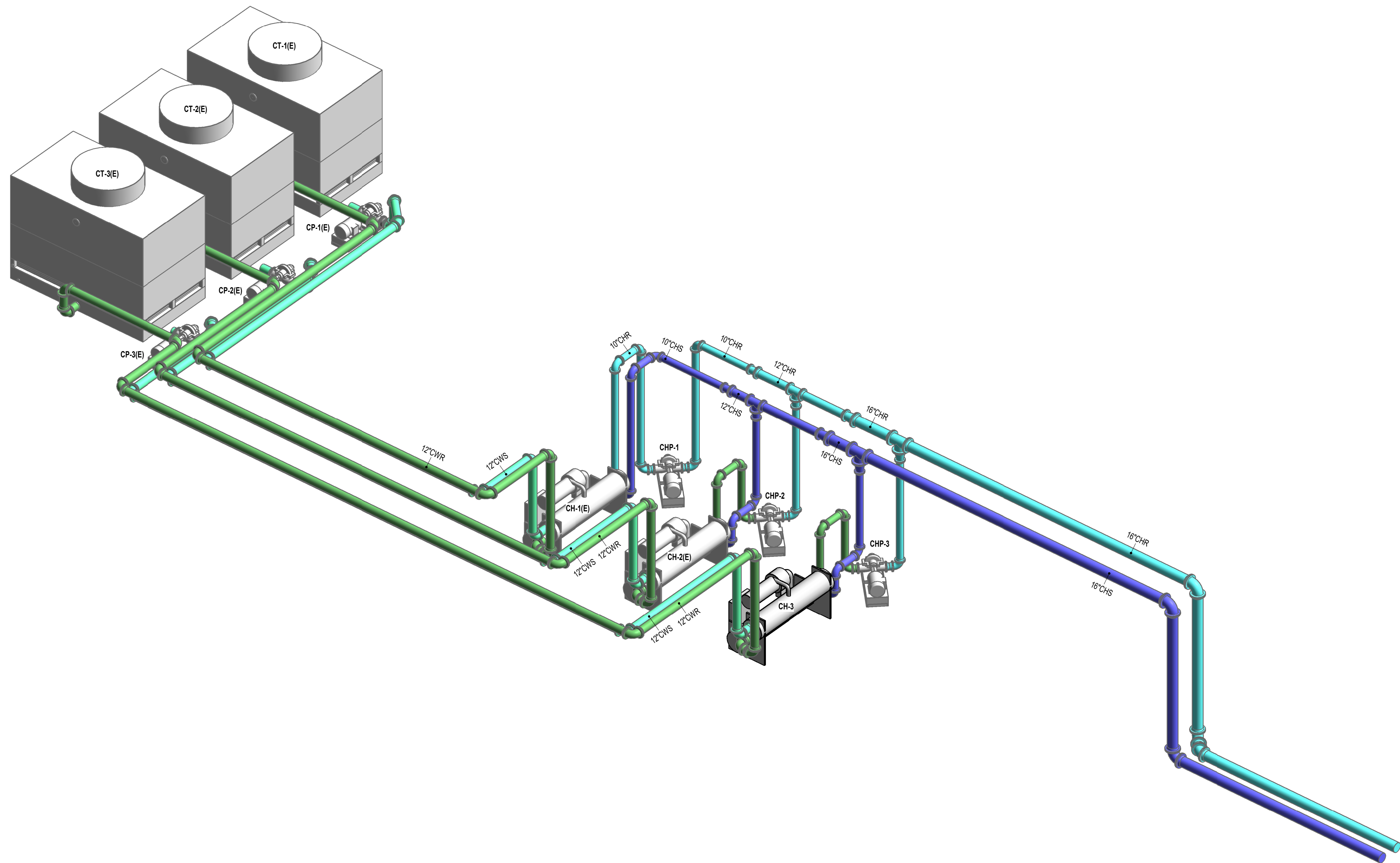
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**MECHANICAL RENOVATION  
PLAN**

## SHEET NUMBER

**M1.1**



1 MECHANICAL 3D RENDERING

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CHILLER REPLACEMENT  
CENTRAL PLANT  
SUNO

NEW ORLEANS, LA

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SHEET NAME
MECHANICAL PLAN 3D

SHEET NUMBER
M2.0

ELECTRICAL SYMBOL LEGEND

(REFER TO DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS)

GENERAL

	KEYNOTE
A-1.3	CIRCUIT TAG, PANEL AND CIRCUIT DESIGNATION AS INDICATED; E.G. PANEL "A", CIRCUIT #1.3

WIRE, CONDUIT, AND RACEWAY

	ABOVE-SLAB CONDUIT & WIRE/CABLING
	BELOW-SLAB CONDUIT & WIRE/CABLING; 3/4" MINIMUM CONDUIT SIZE UON
	HOMERUN TO PANEL; TICK MARKS INDICATED NUMBER OF WIRES

DISTRIBUTION

	PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT AS NOTED; INSTALL WITH SUFFICIENT WORKING SPACE AND CLEARANCES TO MEET ALL REQUIREMENTS OF NEC SECTION 110.26.
GEN-ANNC 	GENERATOR REMOTE ANNUNCIATOR PANEL; PROVIDE CONDUIT/CABLING TO GENERATOR AS REQUIRED PER THE MANUFACTURER'S SPECIFICATIONS.

EQUIPMENT CONNECTIONS

(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE)

	FUSED SAFETY DISCONNECT SWITCH; LOCATE WITHIN SIGHT OF THE EQUIPMENT SERVED WITH 36" MINIMUM CLEAR WORKING SPACE IN FRONT OF THE SWITCH; DO NOT MOUNT DIRECTLY TO EQUIPMENT
	JUNCTION BOX
	JUNCTION BOX FOR MOTORIZED DAMPER
	MOTOR RATED SWITCH WITH THERMAL OVERLOAD; LOCATE WITHIN SIGHT OF THE EQUIPMENT SERVED; DO NOT MOUNT DIRECTLY TO EQUIPMENT; WHEN LOCATED ABOVE CEILING, MOUNT TO STRUCTURAL MEMBER NEARBY.
	ELECTRICAL MOTOR, HORSEPOWER AS NOTED

ELECTRICAL GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS ADOPTED BY THE AHJ.
- THE WORDS "PROVIDE" AND "PROVIDED" AS USED HEREIN SHALL BE UNDERSTOOD TO MEAN, "PROVIDE COMPLETE IN PLACE," THAT IS "FURNISH AND INSTALL." EQUIPMENT AND MATERIAL INDICATED TO BE PROVIDED SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE OF THE MOST SUITABLE GRADE FOR THE PURPOSE INTENDED.
- ROUTE NEW CONDUIT AND WIRING CONCEALED IN WALLS AND CEILING WHERE POSSIBLE. COORDINATE INSTALLATION OF EXPOSED CONDUIT AND WIRING WITH THE ARCHITECT.
- CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE TO NEW HVAC UNITS AS FURNISHED BY THE MECHANICAL CONTRACTOR. VERIFY THE EXACT ELECTRICAL REQUIREMENTS WITH THE REVIEWED HVAC SUBMITTALS PRIOR TO ORDERING ELECTRICAL EQUIPMENT.
- BEFORE INSTALLATION, CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS TO THE ENGINEER FOR REVIEW COVERING PROPOSED LOCATIONS, MOUNTING, AND ROUTING FOR ALL CONDUITS, SERVICES, FITTINGS, GROUND RODS, SUPPORTS, ETC.
- CONTRACTOR IS RESPONSIBLE FOR OVER-CURRENT PROTECTIVE DEVICE SHORT CIRCUIT, COORDINATION, AND ARC-FLASH STUDIES.
- MATERIALS AND MANUFACTURERS NOTED ON DRAWINGS ARE TO BE USED AS BASIS OF DESIGN TO ESTABLISH QUALITY AND PERFORMANCE STANDARDS AND SHALL BE PROVIDED AS SPECIFIED. SUBSTITUTIONS WILL BE CONSIDERED WHERE SUFFICIENT PRODUCT INFORMATION IS PROVIDED TO MAKE A PROPER EVALUATION. REVIEW OF A SUBSTITUTION IS AT THE SOLE DISCRETION OF THE PROFESSIONAL.
- THE CONTRACTOR SHALL SUBMIT COPIES OF THE PRODUCT DATA, SHOP DRAWINGS, ETC. OF ALL MATERIALS NOTED ON THE DRAWINGS. ALL SUBMITTED PRODUCT DATA, SHOP DRAWINGS, ETC. SHALL BE MARKED WITH THE NAME OF THE PROJECT AND SHALL BEAR THE STAMP OF APPROVAL OF THE CONTRACTOR AS EVIDENCE THAT THE MATERIAL HAS BEEN CHECKED BY THE CONTRACTOR.
- DRAWINGS SPECIFIC TO THIS TRADE DO NOT LIMIT THE RESPONSIBILITY OR WORK REQUIRED BY THE CONTRACT DOCUMENTS. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER TRADES FOR COMPLETE INFORMATION PRIOR TO BID.
- WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS, AND EQUIPMENT SCHEDULES, THE MOST STRINGENT REQUIREMENT OR QUANTITY SHALL APPLY. NOTIFY THE ARCHITECT/ENGINEER OF ALL CONFLICTS FOR RESOLUTION OR INTERPRETATION.
- NO EQUIPMENT SHALL BE ORDERED OR INSTALLED UNTIL THE PROJECT ENGINEER HAS RECEIVED A COPY STAMPED "NO EXCEPTIONS TAKEN." "NO EXCEPTIONS TAKEN" DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMANCE WITH THE CONTRACT, EXTEND TO QUANTITIES OR DIMENSIONS, IMPLY THAT THE EQUIPMENT CAN BE INSTALLED OR OPERATE SATISFACTORILY, THAT THE EQUIPMENT CONTAINS ALL NECESSARY COMPONENTS, OR THAT IT WILL COORDINATE WITH OTHER REVIEWED ITEMS.
- OMISSION FROM THIS SHEET OF ANY ITEM SHOWN ELSEWHERE IN THE PLANS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ANY ASSOCIATED WORK.
- COORDINATE INSTALLATION OF NEW ITEMS AND EQUIPMENT WITH THE OWNER'S REPRESENTATIVE AND THE WORK OF OTHER TRADES. THE CONTRACTOR SHALL INCUR ALL COSTS ASSOCIATED WITH THE RELOCATION OF EQUIPMENT CONFLICTING WITH NEW WORK BY OTHER TRADES THAT HAS NOT BEEN COORDINATED.
- COORDINATE ALL ASPECTS OF NEW SERVICE WITH UTILITY COMPANY AND INCLUDE ALL COSTS IN BID.
- WARNING TAPE SHALL BE INSTALLED 12 TO 18 INCHES BELOW GRADE OVER ALL CONDUITS.
- PROVIDE 1/4" MINIMUM DIAMETER PULL ROPE. PULL ROPE SHALL NOT BE NYLON STRING.
- FOR SERVICE ENTRANCE CONDUITS, UTILIZE LONG RADIUS (36") CONDUIT BENDS.
- ALL CONDUIT RISERS FROM UNDERGROUND SHALL HAVE RIGID METAL ELLS AND RISERS.
- PRIOR TO CONSTRUCTION, VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. AVOID DISTURBANCE OF EXISTING UTILITIES NOT INCLUDED IN THIS PROJECT.
- SET SCREW CONDUIT FITTINGS SHALL NOT BE PERMITTED.

SPECIAL SYSTEMS GENERAL NOTES

- VERIFY EXACT LOCATION, VOLTAGE, PHASE, AMPERAGE, ETC. OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING ELECTRICAL GEAR.

DEMOLITION GENERAL NOTES

- THE LOCATIONS OF EXISTING CIRCUITS AND EQUIPMENT ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, AND WIRING BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING PORTIONS OF THE ELECTRICAL SYSTEMS.
- THE CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.
- ALL EQUIPMENT REMOVED THAT IS NOT BEING REUSED SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF AS REQUIRED.
- EXCEPT AS OTHERWISE NOTED, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. OTHER ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD, UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS STUBBED OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.
- WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE DISCONTINUED AND RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS AS SPECIFIED.
- WHERE EXISTING RACEWAYS THAT ARE NOT TO BE REUSED INTERFERE WITH NEW WORK, THESE RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX OR PULL BOX AND THE OPENINGS BLANKED.
- CONTRACTOR SHALL MAINTAIN CONTINUITY OF BRANCH CIRCUITS SERVING MULTIPLE ITEMS OF WHICH ONE OR MORE ARE BEING DEMOLISHED. CONDUCTORS AND CONDUITS FOR THOSE ITEMS BEING DEMOLISHED SHALL BE REMOVED AS FAR AS PRACTICABLE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND DATA WIRING NOT REUSED OR NOT NECESSARY FOR THE COMPLETION OF THIS PROJECT.
- IF ANY BRANCH CIRCUIT WIRING FEEDING EQUIPMENT TO REMAIN IN PLACE FOR REUSE IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE THE NEW BRANCH CIRCUIT WIRING OF THE SAME SIZE AND TYPE AS THAT OF THE EXISTING AT NO COST TO THE OWNER.
- EXISTING DEVICES ARE SHOWN IN GRAY. CONDUIT AND WIRING ARE NOT GENERALLY SHOWN AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL DEMOLITION WORK AND CLARIFICATION OF INDICATED WORK WILL BE GIVEN BY RFI.
- COORDINATE THE REMOVAL AND REINSTALLATION (OR PROTECTION IN PLACE) OF EXISTING ELECTRICAL EQUIPMENT AND DEVICES WITH THE WORK OF OTHER TRADES TO REPLACE OR REFINISH EXISTING WALLS AND CEILINGS.
- WHERE EXISTING CIRCUITS ARE BEING REMOVED IN EXISTING PANELS, PROVIDE A NEW, NEATLY TYPED DIRECTORY WHICH INDICATES WHERE "SPARE" BREAKERS ARE LOCATED. ANY EXISTING BREAKERS THAT ARE NOT FEEDING DEVICES SHALL REMAIN AND BE LABELED AS A "SPARE."

INDEX - ELECTRICAL SHEETS

COVER	COVER SHEET
E0.0	ELECTRICAL COVER SHEET
E1.0	ELECTRICAL DEMOLITION PLAN
E1.1	ELECTRICAL RENOVATION PLAN

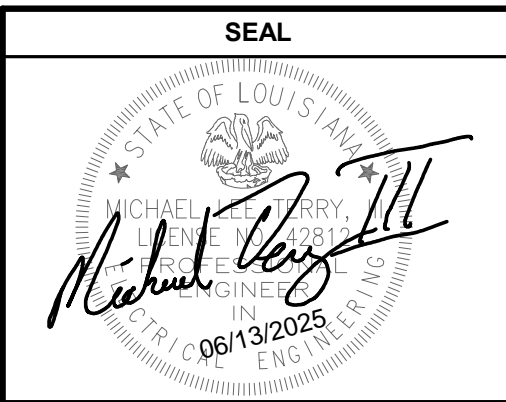
ABBREVIATIONS

A	AMPERE(S)	CATV	CABLE TELEVISION	EF	EXHAUST FAN	FOC	FIBER OPTIC CABLE	MCB	MAIN CIRCUIT BREAKER	NO	NORMALLY OPEN	SF	SUPPLY FAN	UGS	UNDERGROUND SECONDARY
AC	ABOVE COUNTER (6" ABOVE BACKSPLASH)	CB	CIRCUIT BREAKER	EGC	EQUIPMENT GROUNDING CONDUCTOR	G, GND	GROUND	MC/MKCMIL	1,000 CIRCULAR MILS	NU	WEATHERPROOF IN-USE COVER	SN	SOLID NEUTRAL	UH	UNIT HEATER
AF	AMPERE(S) FUSED	CKT	CIRCUIT	EMER.	EMERGENCY	GEC	GROUNDING ELECTRODE CONDUCTOR	MECH.	MECHANICAL	OH	OVERHEAD	SPD	SURGE PROTECTIVE DEVICE	UL	UNDERWRITER'S LABORATORY, INC.
AFCI	ARC FAULT CIRCUIT INTERRUPTER	CLG	CLG	EMT	ELECTRICAL METALLIC TUBING	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MH	MANHOLE	OHE	OVERHEAD ELECTRICAL	STD	STANDARD	UON	UNLESS OTHERWISE NOTED
AFF	ABOVE FINISHED FLOOR	CORR	CORRIDOR	EQ	EQUAL	GRS	GALVANIZED RIGID STEEL	MLO	MAIN LUGS ONLY	OSP	OUTSIDE PLANT	TEL	TELEPHONE	V	VOLTS
AFG	ABOVE FINISHED GRADE	CT	CURRENT TRANSFORMER	EQUIP.	EQUIPMENT	HH	HANDHOLE	MOCP	MAXIMUM OVERCURRENT PROTECTION	UPP	UTILITY POWER POLE	TELECOM	TELECOMMUNICATIONS	VAC	VOLTS ALTERNATING CURRENT
AIC	AMP SYMMETRICAL INTERRUPTING CAPACITY RMS	CTRL	CONTROLLER	EWC	ELECTRIC WATER COOLER	HP	HORSEPOWER	MTD	MOUNTED	PB	PULL BOX	TGB	TELECOMMUNICATIONS GROUND BUS	VDC	VOLTS DIRECT CURRENT
AT	AMPERE(S) TRIP	D	TO BE DEMOLISHED	EWB	ELECTRIC WATER HEATER	KAIC	1,000 AMP SYMMETRICAL INTERRUPTING CAPACITY RMS	MTG	MOUNTING	PH	PHASE	TMGB	TELECOMMUNICATIONS MAIN GROUND BUS	VFD	VARIABLE FREQUENCY DRIVE
AWG	AMERICAN WIRE GAUGE	DISC.	DISCONNECT	EXIST.	EXISTING	KWH	1,000 WATT HOURS	NC	NORMALLY CLOSED	PNL	PANEL	TTB	TELECOM TERMINAL BOARD	WH	WATER HEATER
BG	BELOW GRADE	DIST.	DISTRIBUTION	FACP	FIRE ALARM CONTROL PANEL	KVA	1,000 VOLT AMPERES	NEC	NATIONAL ELECTRICAL CODE	PV	PHOTOVOLTAIC	TV	TELEVISION	WP	WEATHERPROOF
BLDG	BUILDING	DWG	DRAWING	FACPRA	FIRE ALARM CONTROL PANEL REMOTE ANNUNCIATOR	LAN	LOCAL AREA NETWORK	NEU	NEUTRAL	PVC	POLYVINYL CHLORIDE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION	XFMR	TRANSFORMER
BKR	BREAKER	E	EXISTING TO REMAIN	FC	FOOTCANDLE	LC	LIGHTING CONTACTOR	NF	NON-FUSED	QTY	QUANTITY	TYP.	TYPICAL		
C	CONDUIT	EC	EMPTY CONDUIT	FCU	FAN COIL UNIT	LTG	LIGHTING	NIC	NOT IN CONTRACT	RCPT	RECEPTACLE	UG	UNDERGROUND		
CAT	CATEGORY	ECB	ENCLOSED CIRCUIT BREAKER	FLA	FULL LOAD AMPERE(S)	MCA	MINIMUM CIRCUIT AMPACITY	NL	NIGHT LIGHT	REQ'D	REQUIRED	UGP	UNDERGROUND PRIMARY		

ALL SYMBOLS, ABBREVIATIONS, AND NOTES ABOVE ARE TYPICAL AND ARE NOT NECESSARILY USED IN THESE CONSTRUCTION DOCUMENTS



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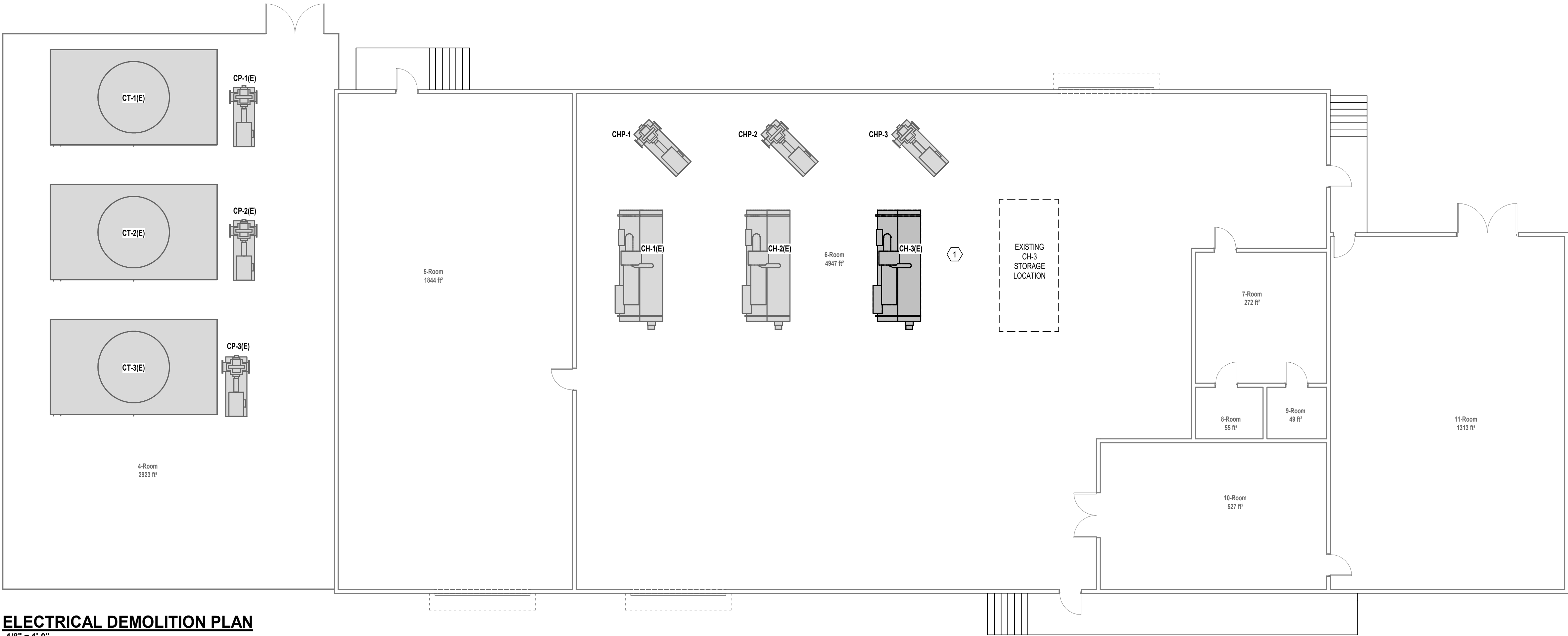
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SHEET NAME

ELECTRICAL COVER SHEET

SHEET NUMBER

E0.0

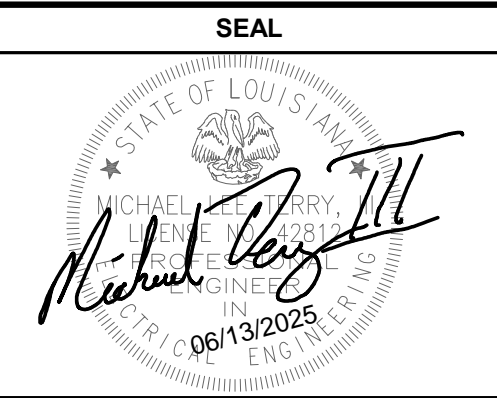


**1 ELECTRICAL DEMOLITION PLAN**  
1/8" = 1'-0"

**ELECTRICAL DEMOLITION KEYNOTES**

- 1 DISCONNECT EXISTING CHILLER. PROTECT EXISTING CONDUIT AND WIRE DURING DEMOLITION.

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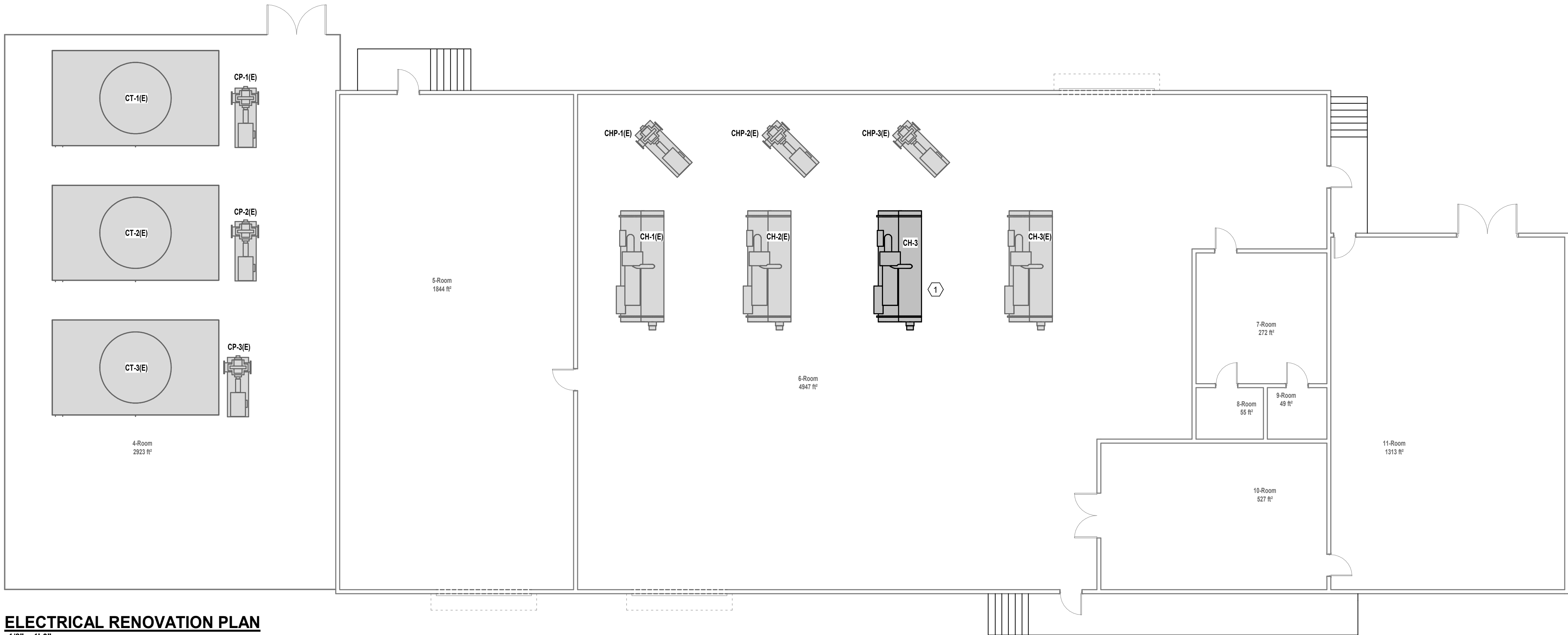
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SHEET NAME

ELECTRICAL RENOVATION  
PLAN

SHEET NUMBER

E1.1



**1 ELECTRICAL RENOVATION PLAN**  
1/8" = 1'-0"

ELECTRICAL RENOVATION KEYNOTES

- 1 RECONNECT EXISTING CONDUIT AND WIRE TO NEW CHILLER "CH-3".  
VERIFY THE ELECTRICAL REQUIREMENTS WITH THE CHILLER PROVIDER  
PRIOR TO RECONNECTION.