# BOILER REPLACEMENT ARTS, HUMANITIES & SOCIAL SCIENCE BUILDING & GYMNASIUM SOUTHERN UNIVERSITY AT NEW ORLEANS

**NEW ORLEANS, LOUISIANA** 

PROJECT NO.: 19-671-22-01, F.19002574
STATE BUILDING ID:
S27481 - ARTS, HUMAINTIES & SOCIAL SCIENCES
S00303 - GYMNASIUM

**SITE CODE: 1-36-007** 

STATE OF LOUISIANA JEFF LANDRY, GOVERNOR

DIVISION OF ADMINISTRATION
TAYLOR F. BARRAS, COMMISSIONER OF ADMINISTRATION

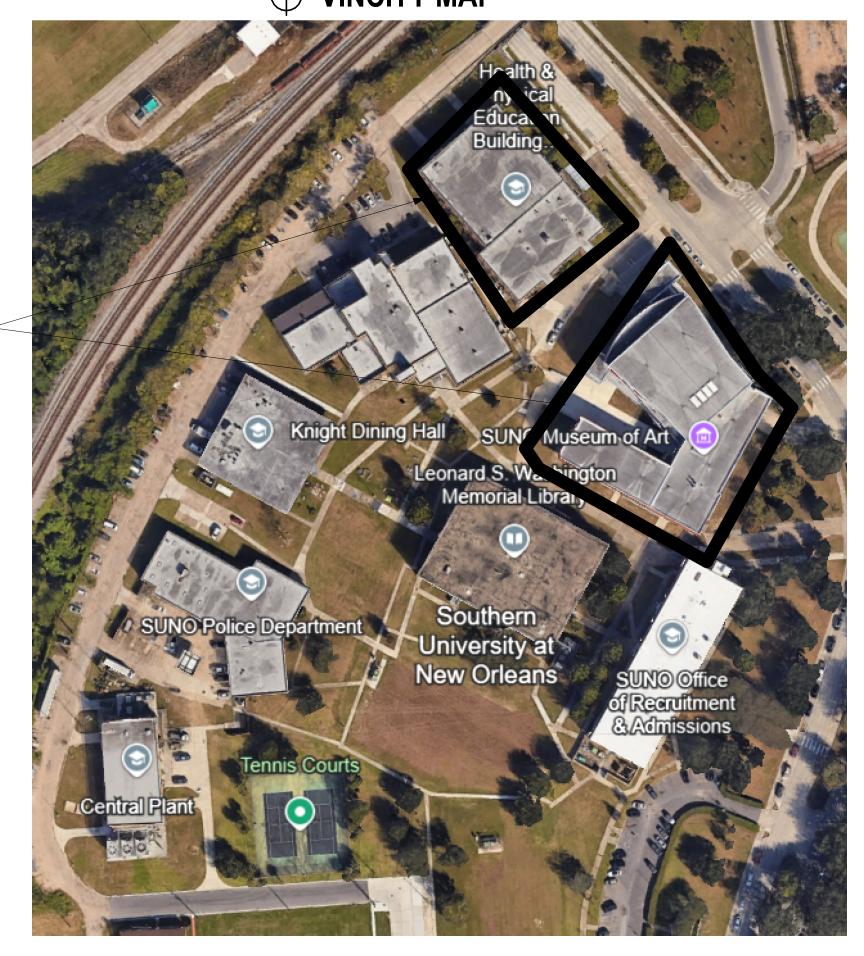
OFFICE OF FACILITY PLANNING AND CONTROL ROGER E. HUSSER, JR., DIRECTOR

SOUTHERN UNIVERSITY SYSTEM
KENNETH DAWSON - SYSTEM DIRECTOR OF FACILITY PLANNING

# **BID DOCUMENTS**

**06/18/2025 ♦ VINCITY MAP** 

**PROJECT AREA** 



# SHEET INDEX

MECHANICAL	
COVER	COVER SHEET
M0.0	MECHANICAL COVER SHEET
M1.0	MECHANICAL PLAN
M1.1	ENLARGED MECHANICAL PLAN
M1.2	GYMNASIUM MECHANICAL PLAN
M1.3	GYMNASIUM ENLARGED MECHANICAL PLAN
M2.0	MECHANICAL DETAILS
M2.1	MECHANICAL DETAILS

MECHANICAL SCHEDULES

ELECTRIC/
=

LECTRICAL	
0.0	ELECTRICAL COVER SHEET
1.0	ARTS & HUMANITIES ELECTRICAL PLAN
1.1	ARTS & HUMANITIES ENLARGED ELECTRICAL PLAN
1.2	GYMNASIUM ELECTRICAL PLAN
1.3	GYMNASIUM ENLARGED ELECTRICAL PLANS
2.0	ELECTRICAL DETAILS



All drawings and written material appearing herein constitut original and unpublished work of the engineer and may no be duplicated, used, or disclosed without written consent of the engineer. Do not scale drawings. Contractor is responsible for verifying any and all quantities included in these documents when bidding and during construction.



REPLACEMENT
ES & SOCIAL SCIENC
SYMNASIUM, SUNO

PROJECT INFORMATION

REVISIO	NS

SHEET INFORMATION		
DATE:	06-18-2025	
DRAWN BY:	CTD/SPG	
CHECKED BY:	LJB/SPG	
PROJECT #:	25-040	

SHEET NAME

COVER SHEET

COVER

SHEET NUMBER



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 ACI318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." COMPRESSIVE STRENGTH IN 28 DAYS

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 UNVANED SMOOTH RADIUS CONSTRUCTION WITH A

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

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 WALL APPLIED ITEMS SHALL BE INSTALLED PLUMB, LEVEL AND IN LOCATIONS DESIGNATED IN CONTRACT DOCUMENTS. ALL DEVICE COVERS AND TRIM SHALL FIT TIGHT TO WALL SURFACE ON ALL SIDES. WHERE SPECIFIC LOCATIONS FOR ITEMS NOT SHOWN OR CLEAR, CONTRACTOR

ALL GRILLES LOCATED IN LAY-IN CEILINGS SHALL HAVE 24x24 FRAMES, STYLES TO FIT THE GRID TYPE, EITHER 15/16" OR 9/16" GRID, VERIFY GRID WITH ARCHITECTURAL DRAWINGS. PROVIDE PLASTER FRAMES FOR SURFACE MOUNT APPLICATIONS, PRICE MODEL AMF OR APPROVED EQUAL.

ALL FLEX DUCT SERVING DIFFUSERS SHALL BE LIMITED TO RUNS OF 6'. FLEX DUCT SHALL BE FLEXMASTER 1M-R6 OR APPROVED EQUAL AND USE STAINLESS STEEL (OR NYLON IF APPROVED BY MECHANICAL ENGINEER) TO CONNECT FLEX TO DUCT AND GRILLES.

ALL ROUND TAPS OFF RECTANGULAR DUCTWORK TO DIFFUSERS SHALL BE MADE WITH HIGH EFFICIENCY SIDE TAKEOFFS WITH 2" INSULATION STANDOFF BRACKETS AND LOCKING QUADRANT, FLEXMASTER MODEL STOD-BO3 OR APPROVED EQUAL.

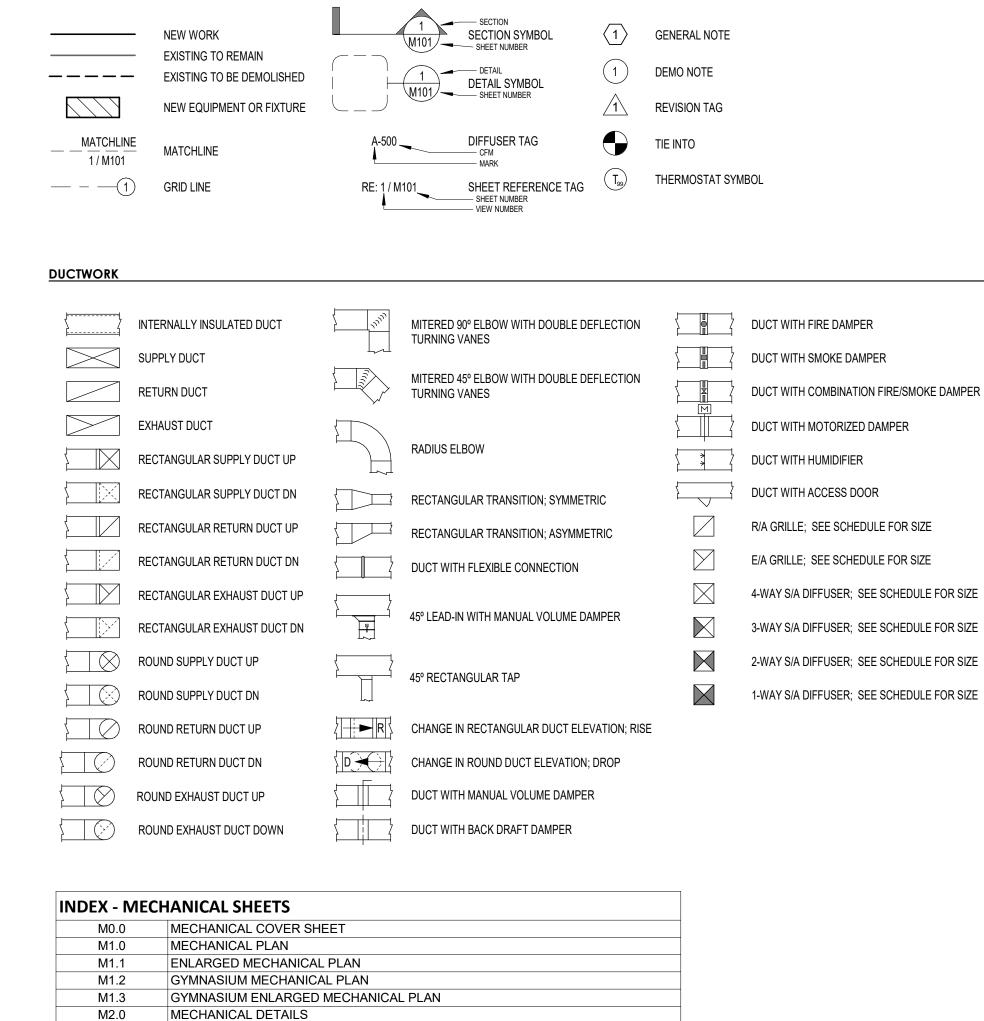
FLEXIBLE DUCT NOT ACCEPTABLE FOR EXHAUST, RETURN AND FRESH AIR SYSTEMS UNLESS SPECIFIED OR NOTED OTHERWISE. FLEX DUCT SHALL NOT PENETRATE ANY WALLS UNLESS SUBMITTED AND APPROVED ON TO BOTH THE ARCHITECT AND MECHANICAL ENGINEER.

60. ALL EQUIPMENTS SUPPLIED TO THE PROJECT SHALL BE PER SPECIFICATIONS. OBTAINING APPROVED SUBMITTALS DOES NOT RELIEVE THE CONTRACTOR/SUPPLIER OF PROVIDING ALL FEATURES, OPTIONS AND ACCESSORIES INCLUDED WITHIN THE CONSTRUCTION DOCUMENTS.

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

MINIMUM CONCRETE PAD THICKNESS SHALL BE 4 INCHES. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 INCHES ON EACH SIDE UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS 15 LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE

ROUND EXHAUST DUCT DOWN AND LOCATIONS WITH ARCHITECT. PROVIDE FIRE AND/ OR SMOKE 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 ENDED PIPING & DUCT DURING CONSTRUCTION TO PREVENT DIRT/DEBRIS FROM ENTERING PIPE/DUCT SYSTEMS. PROVIDE PROTECTIVE LOCKABLE THERMOSTAT COVERS FOR THERMOSTATS. COORDINATE WITH OWNER. MECHANICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR ON LOCATION OF ALL FLOOR DRAINS & HUB DRAINS AS NOT TO INTERFERE WITH EQUIPMENT PADS. COORDINATE NEW FLOOR DRAIN & HUB LOCATION WHERE EQUIPMENT DOES NOT ALLOW INDEX - MECHANICAL SHEETS FOR THE INSTALLATION SHOWN FOR DRAIN. 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. MECHANICAL COVER SHEET PRESSURE TEST ALL REUSED/REROUTED 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.

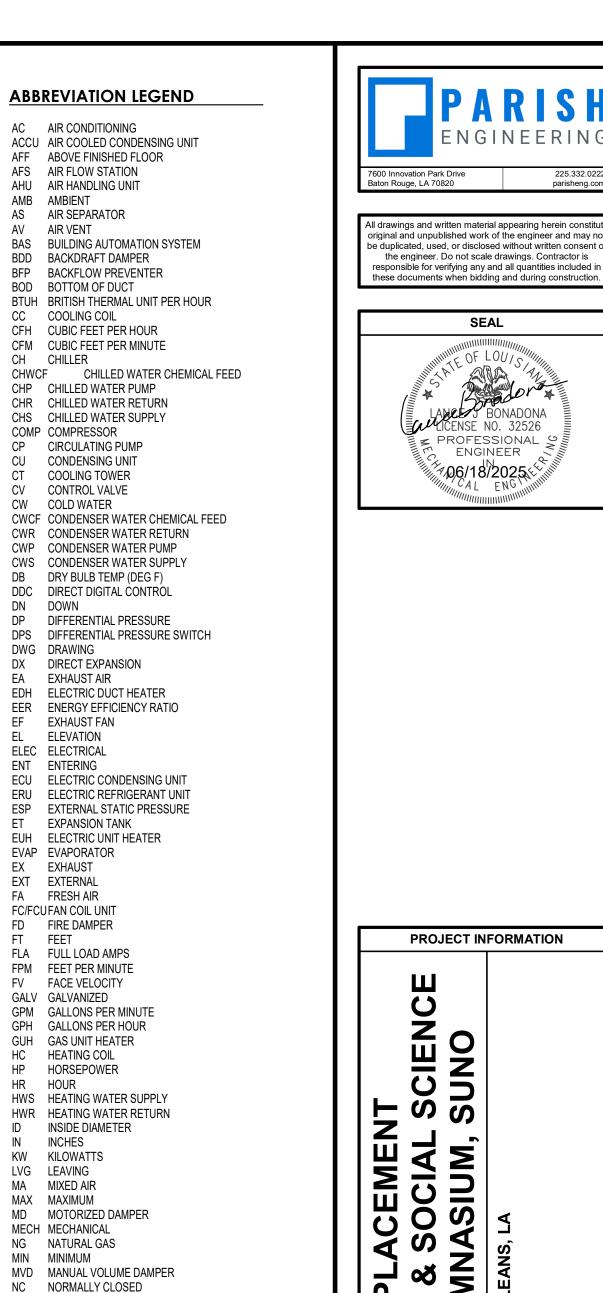


(REFER TO DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS

MECHANICAL SYMBOL LEGEND

MECHANICAL DETAILS

MECHANICAL SCHEDULES



NFPA NATIONAL FIRE PROTECTION ASSOC.

PTAC PACKAGED TERMINAL AIR CONDITIONER

SEER SEASONAL ENERGY EFFICIENCY RATIO

NIC NOT IN CONTRACT NO NORMALLY OPEN

NOM NOMINAL

NTS NOT TO SCALE

OA OUTSIDE AIR

OAF OUTSIDE AIR FAN

OAU OUTSIDE AIR UNITS

PD PRESSURE DROP

RA RETURN AIR

REF REFERENCE RH RELATIVE HUMIDITY RHC REHEAT COIL RND ROUND

RTU ROOF TOP UNIT SA SUPPLY AIR SD SMOKE DAMPER

SF SUPPLY AIR FAN SP STATIC PRESSURE SPEC SPECIFICATIONS

TEMP TEMPERATURE TOD TOP OF DUCT

UG UNDERGROUND UL UNDERWRITERS LISTED

TYP TYPICAL

W / WITH

W / O WITHOUT

TSP TOTAL STATIC PRESSURE

VAV VARIABLE AIR VOLUME

WB WET BULB (DEG F)

VFD VARIABLE FREQUENCY DRIVE

OZ OUNCES (PRESSURE)

OS&Y OUTSIDE STEM AND YOKE

PSI POUNDS PER SQUARE INCH

RPM REVOLUTIONS PER MINUTE



PROJECT INFORMATION

the engineer. Do not scale drawings. Contractor is

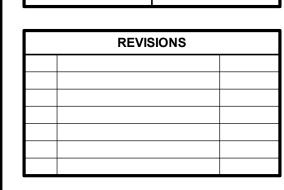
esponsible for verifying any and all quantities included in

SEAL

**PROFESSIONAL** 

ENGINEER

~0,6/18/2025.<



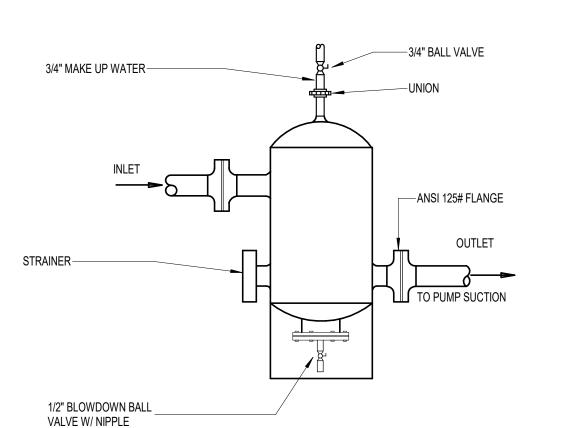
SHEET INFO	ORMATION	
DATE:	06-18-20	25
	00 .0 <u>-</u> 0	'20
DRAWN BY:	C	TD

CHECKED BY: 25-040 SHEET NAME

**MECHANICAL COVER SHEET** 

M0.0

SHEET NUMBER



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

PROVIDE ESCUTCHEONS AT ALL EXPOSED LOCATIONS WHERE PIPE PENETRATES WALL

COORDINATED WITH ALL OTHER TRADES INVOLVED. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION

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

HALL OBTAIN CLARIFICATION AND DIRECTION FROM ARCHITECT AND MECHANICAL ENGINEER PRIOR TO INSTALLATION.

PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH DUCT CONNECTIONS TO LOW PRESSURE MAIN DUCTS.

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

ALL MISCELLANEOUS ROOFTOP EQUIPMENT SUPPORTS SHALL BE ENDORSED BY BOTH THE RESPECTIVE EQUIPMENT MANUFACTURER AND ROOF SYSTEM MANUFACTURER.

PROVIDE ADDITIONAL SUSPENDED SUPPORTS AS REQUIRED TO PREVENT FLEXIBLE DUCT FROM CONTACTING THE CEILING MATERIAL AND/OR CEILING FRAME/GRID ASSEMBLY.

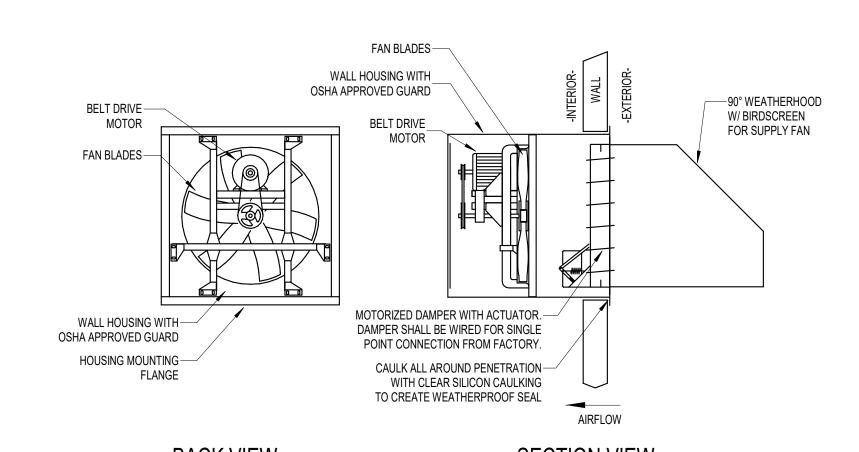
THE CONDENSATE DRAIN LINE SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN CONNECTION TO THE FLOOR DRAIN; ELEVATE UNIT TO ACCOMMODATE P-TRA

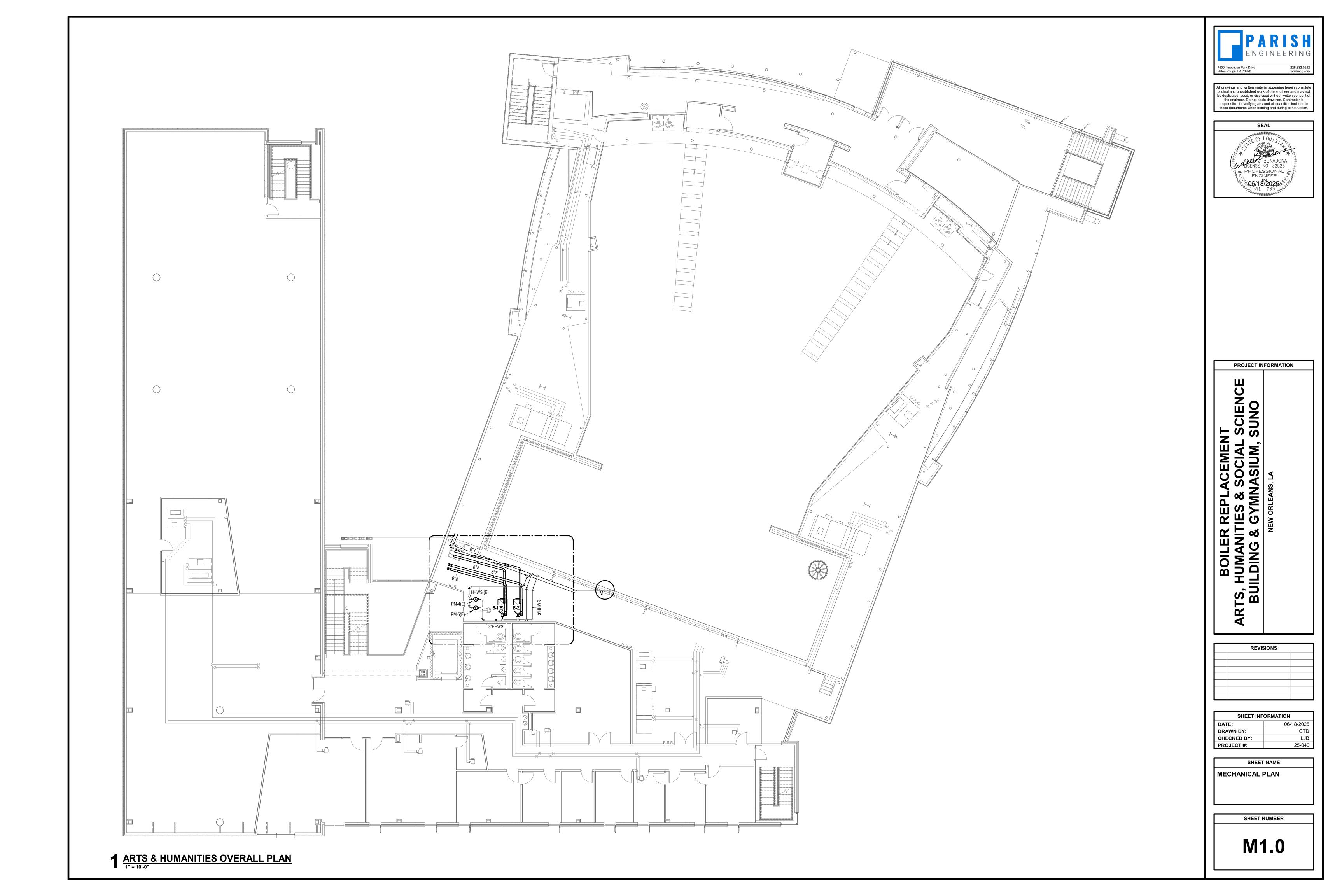
PIPING DIMENSIONS BEFORE FABRICATION.

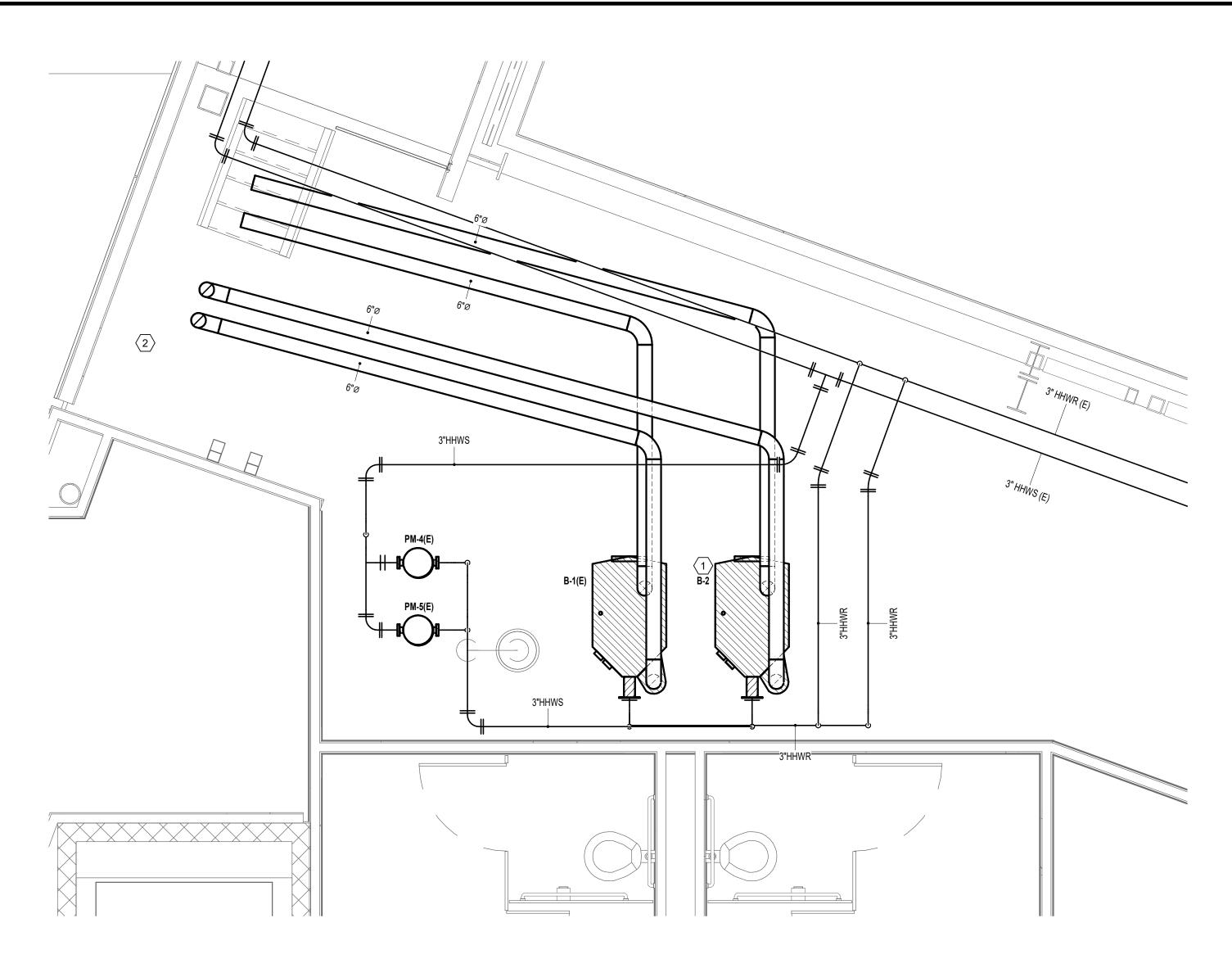
LOCATE ALL TEMPERATURE PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP AND DOWN STREAM AS RECOMMENDED BY THE MANUFACTURER.

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

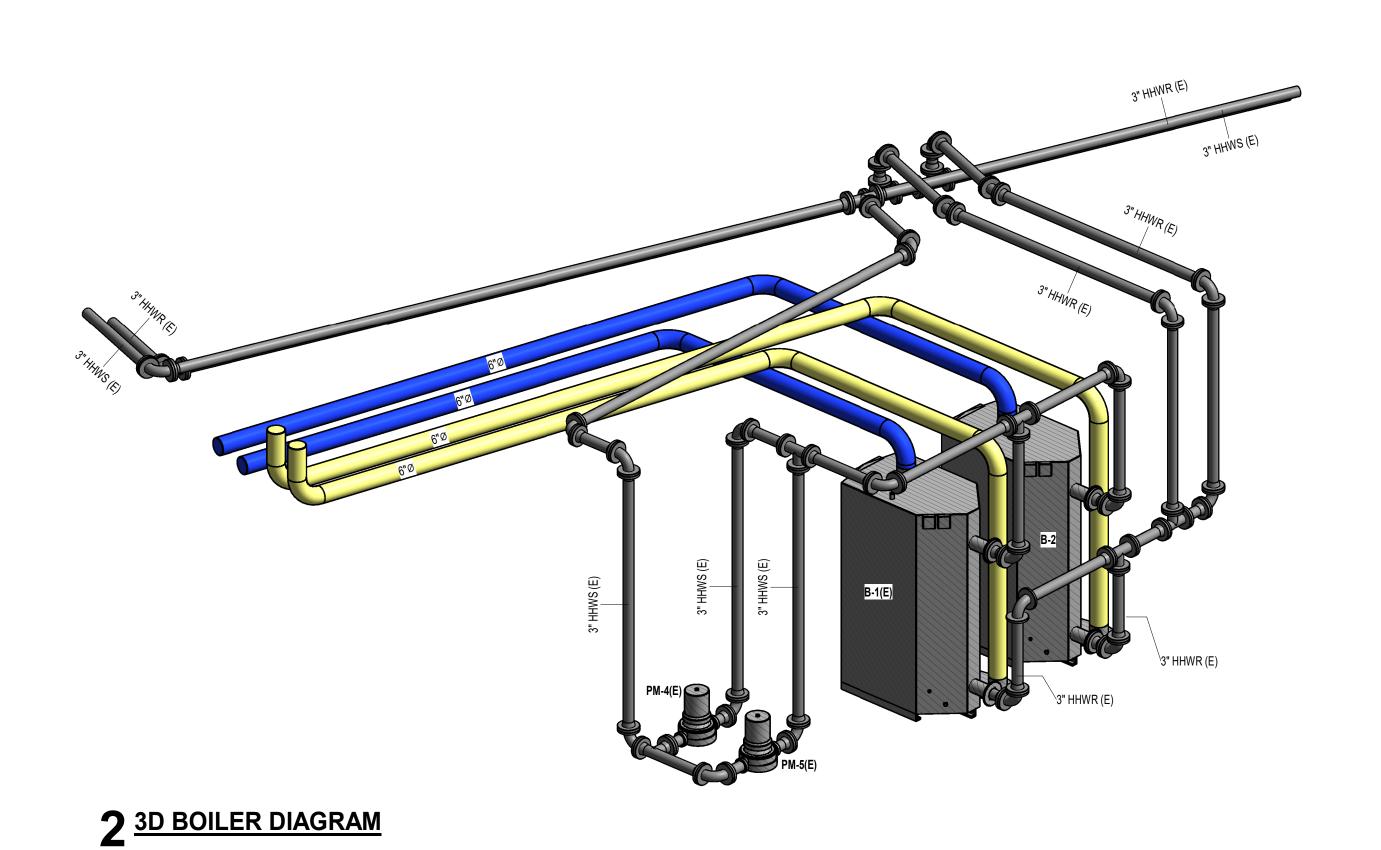
SHALL BE 3.000 PSI. TOTAL AIR CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.





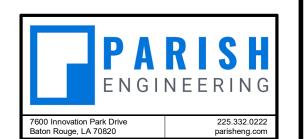


# ARTS & HUMANITIES ENLARGED 3/8" = 1'-0"



# KEYNOTES:

- PROVIDE NEW BOILER, B-2, EXISTING BOILER HAS BEEN REMOVED. CONNECT TO EXISTING HEATING WATER VENT, INTAKE AIR, ELECTRICAL AND CONTROLS.
- 2 REPLACE EXISTING OUTDOOR AIR DAMPER.



All drawings and written material appearing herein constitute original and unpublished work of the engineer and may not be duplicated, used, or disclosed without written consent of the engineer. Do not scale drawings. Contractor is responsible for verifying any and all quantities included in these documents when bidding and during construction.



MANITIES & SOCIAL SCIE

PROJECT INFORMATION

REVISIONS			

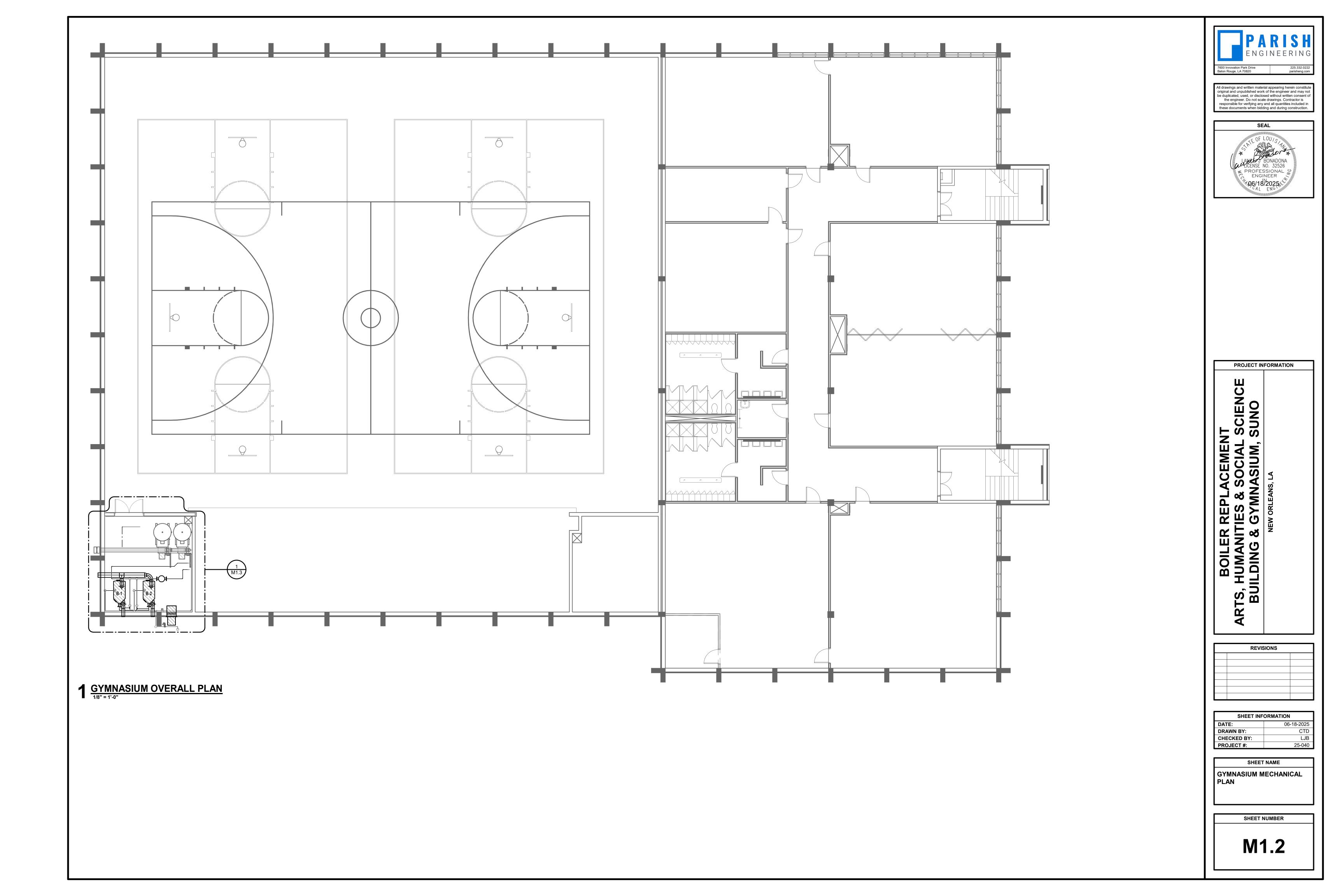
SHEET INFORMATION		
DATE:	06-18-2025	
DRAWN BY:	CTD	
CHECKED BY:	LJB	
PROJECT #:	25-040	

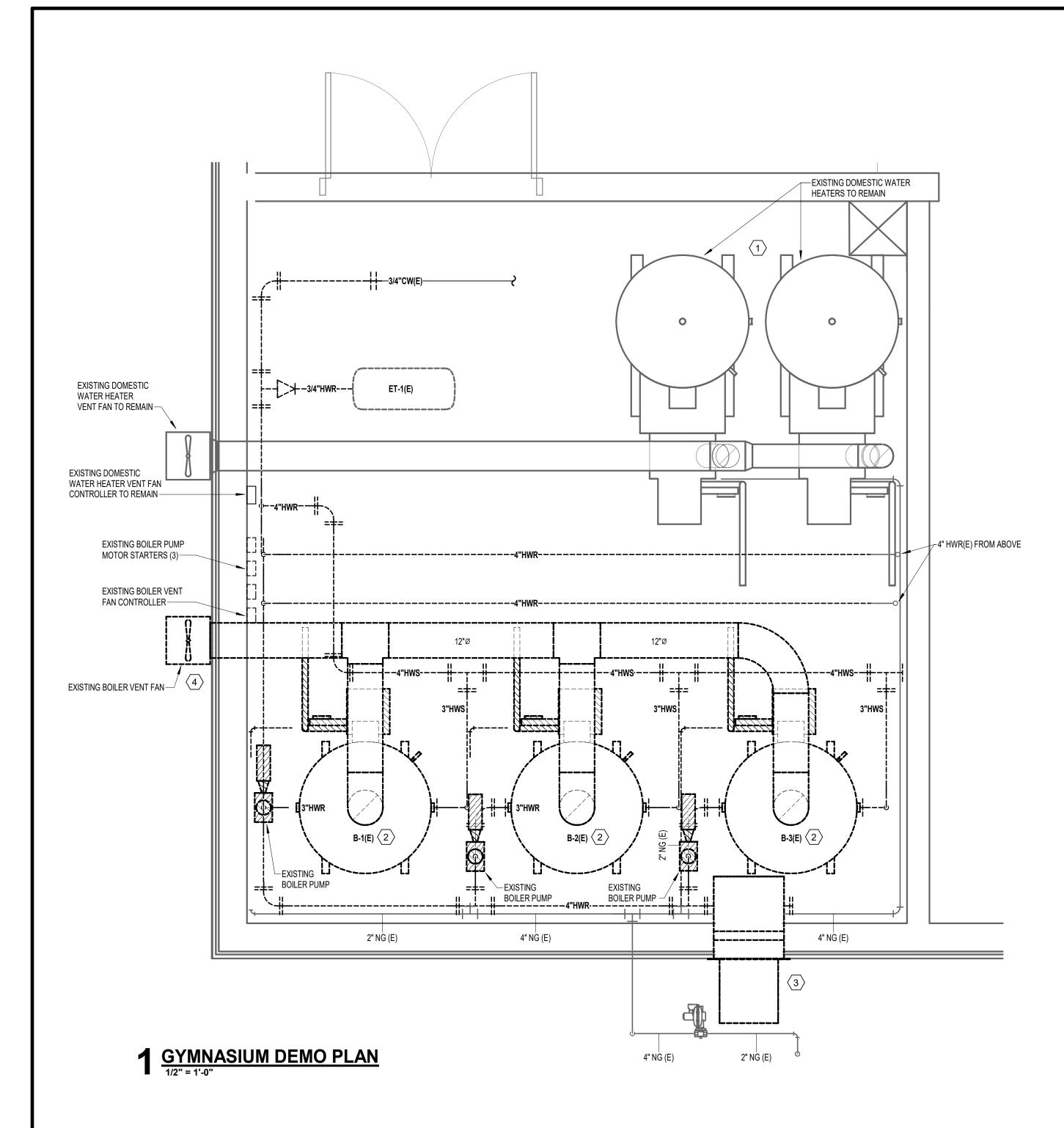
SHEET NAME

ENLARGED MECHANICAL
PLAN

SHEET NUMBER

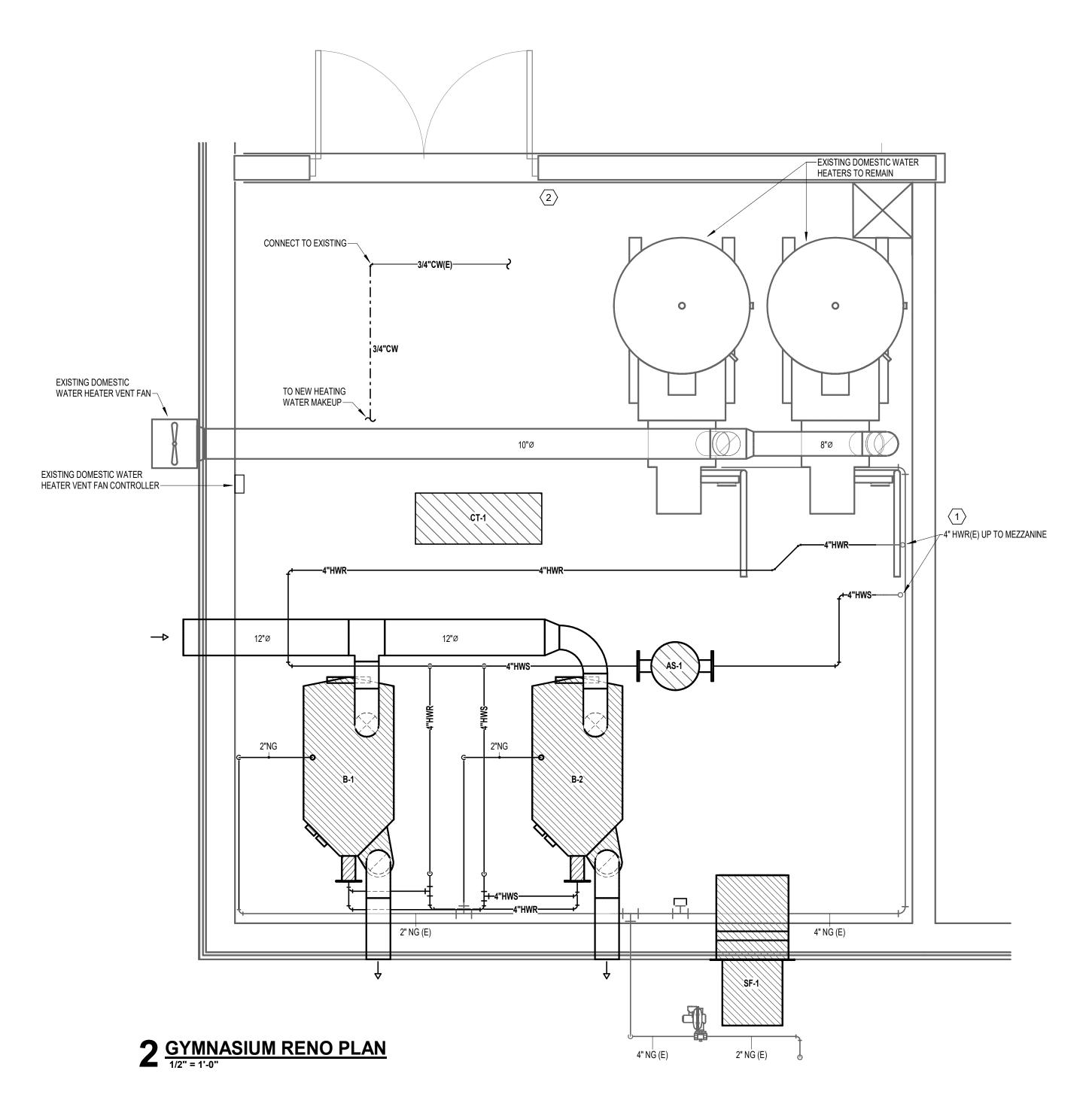
M1.1





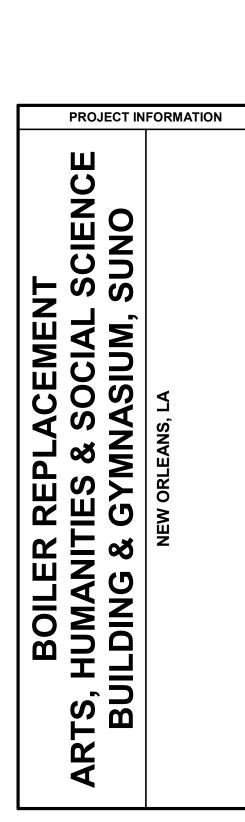


- TWO EXISTING DOMESTIC WATER HEATERS AND ASSOCIATED VENT FAN, VENT FAN CONTROLLER, MIXING VALVE, EXPANSION TANK AND PIPING TO REMAIN.
- 2 REMOVE THREE EXISTING BOILERS AND ASSOCIATED PUMPS, MOTOR STARTERS, VENT FAN, VENT FAN CONTROLLER, HWS/R, AND GAS PIPING.
- 3 REMOVE EXISITING COMBUSTION AIR FAN. PREPARE OPENING TO ACCEPT NEW FAN.
- 4 PREPARE EXISTING OPENING TO ACCEPT NEW BOILER FLUE.



# RENO KEY NOTES:

- EXISTING SECONDARY HEATING WATER PUMPS ARE LOCATED ON MEZZANINE ABOVE. REFER TO PIPING DIAGRAMS FOR SCOPE OF WORK. BALANCE EXISTING SECONDARY HEATING WATER PUMPS PER SCHEDULE.
- PROVIDE BOILER STOP BUTTON AT DOORWAY.



**REVISIONS** 

SHEET INFORMATION

SHEET NAME

SHEET NUMBER

M1.3

GYMNASIUM ENLARGED MECHANICAL PLAN

DRAWN BY:

CHECKED BY:

PROJECT #:

06-18-2025

LJB

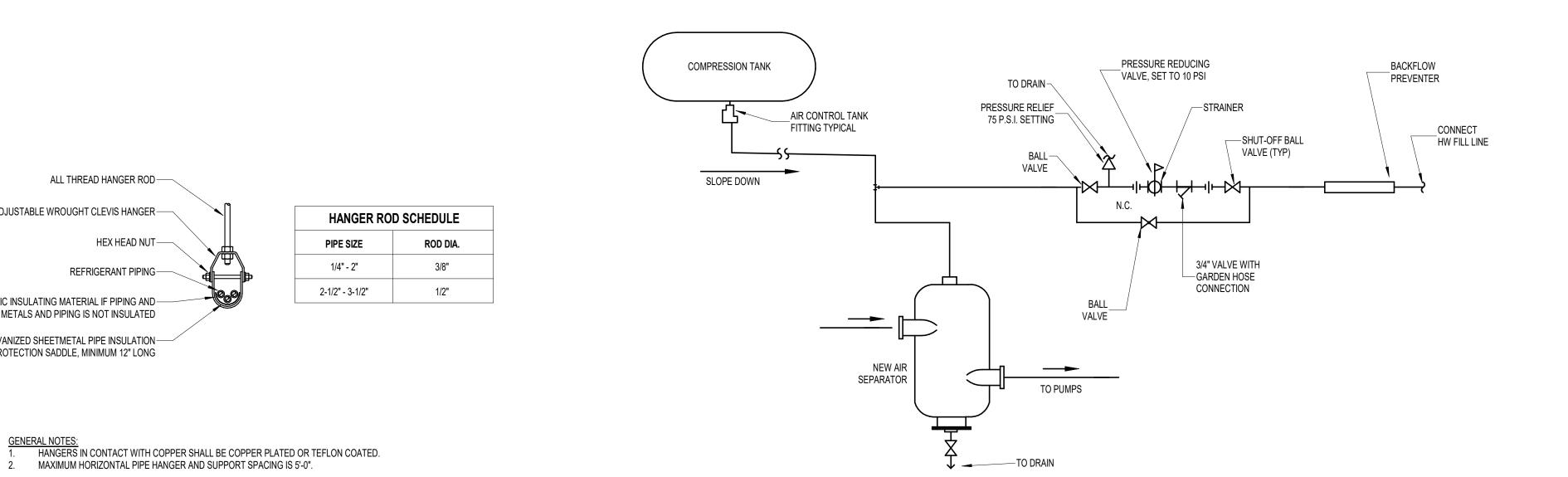
25-040

All drawings and written material appearing herein constitute

original and unpublished work of the engineer and may not be duplicated, used, or disclosed without written consent of the engineer. Do not scale drawings. Contractor is responsible for verifying any and all quantities included in these documents when bidding and during construction.

SEAL

ENGINEER 14,06/18/2025





MAXIMUM HORIZONTAL PIPE HANGER AND SUPPORT SPACING IS 5'-0".

ALL THREAD HANGER ROD-

HEX HEAD NUT-

REFRIGERANT PIPING-

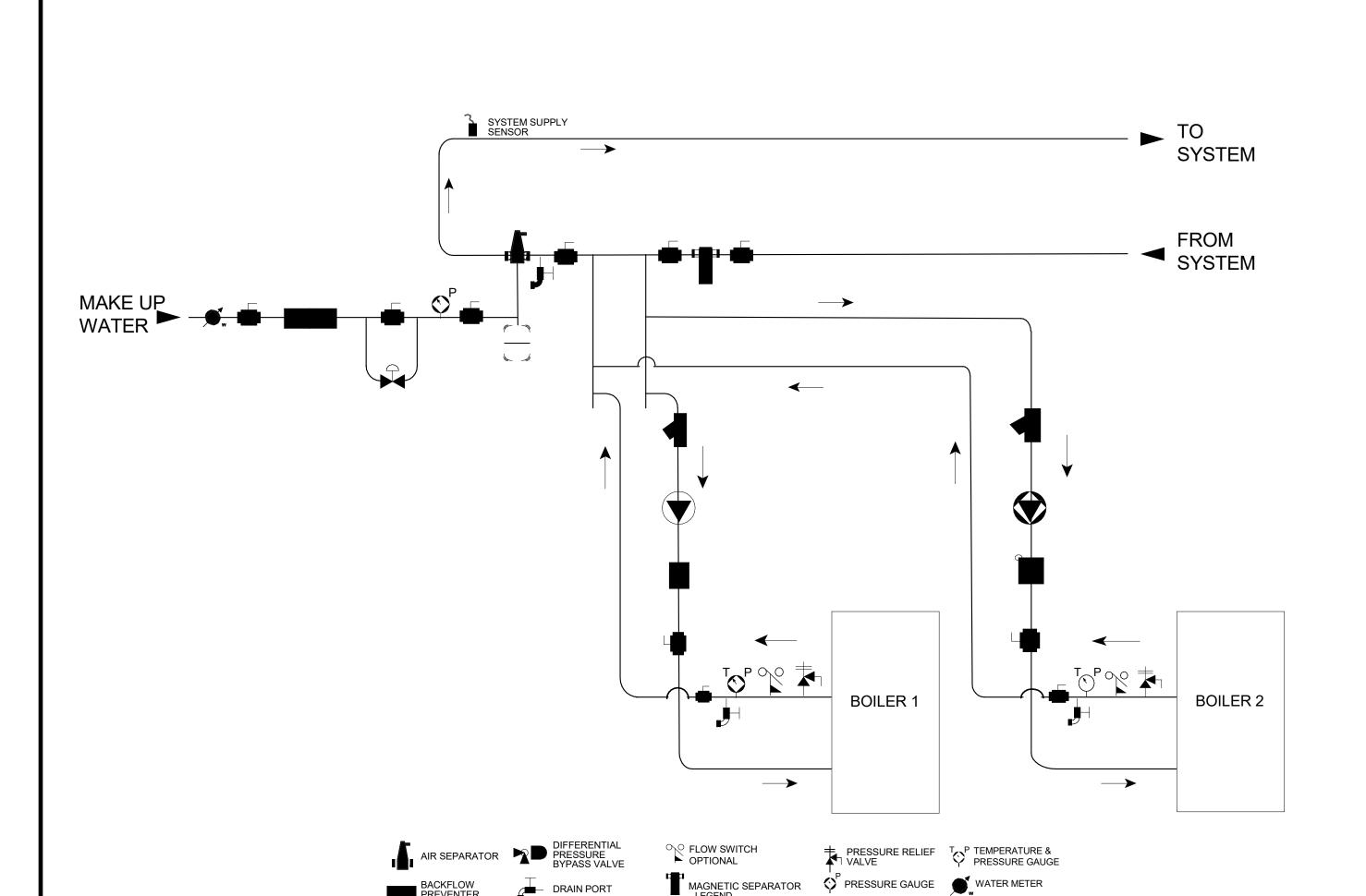
ADJUSTABLE WROUGHT CLEVIS HANGER—

PROVIDE NON-METALLIC INSULATING MATERIAL IF PIPING AND—

16 GA. GALVANIZED SHEETMETAL PIPE INSULATION— PROTECTION SADDLE, MINIMUM 12" LONG

HANGER ARE DISSIMILAR METALS AND PIPING IS NOT INSULATED

2 DETAIL - AIR CONTROL SYSTEM PIPING
N.T.S.



MIXING VALVE ANTI SCALD

EXPANSION TANK

CIRCULATION PUMP

FLOW CHECK VALVE

PRESSURE
REDUCING VALVE

SYSTEM SUPPLY 2 WAY MOTORIZED VALVE (OPTIONAL)

4 DETAIL - BOILER PIPING DIAGRAM
N.T.S.



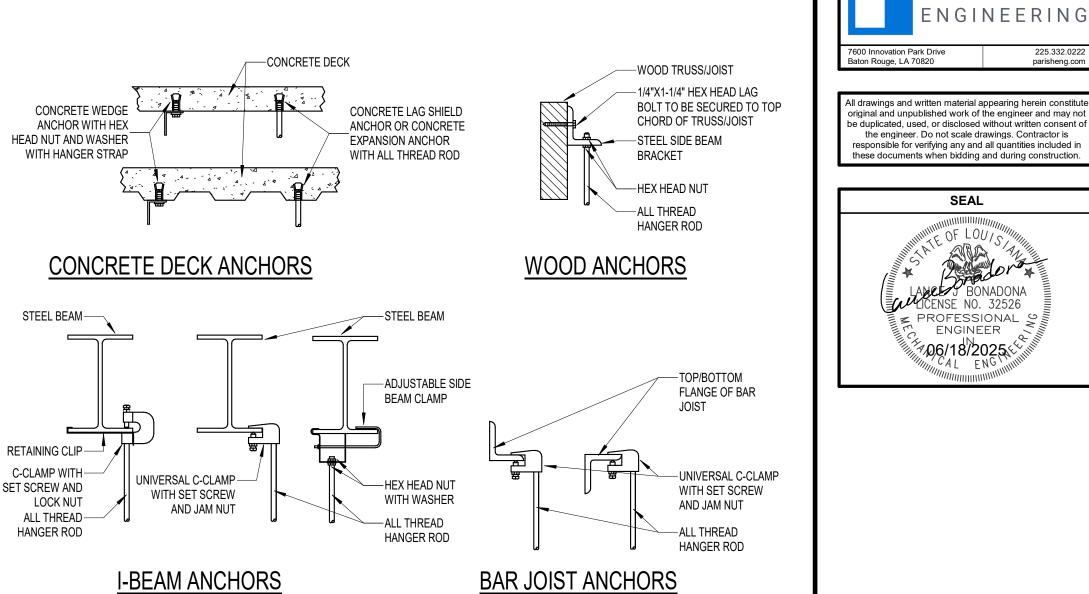
STEEL BEAM-

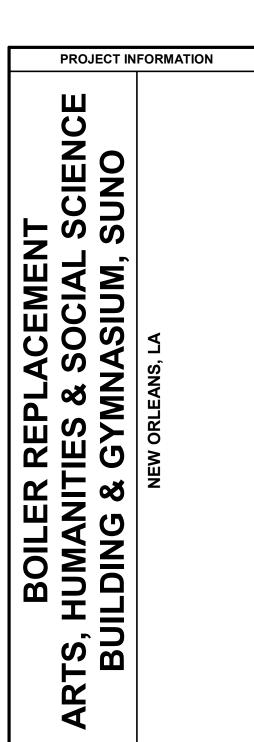
RETAINING CLIP-

SET SCREW AND LOCK NUT ALL THREAD—

HANGER ROD

C-CLAMP WITH-





SEAL

**ENGINEER** 

106/18/2025

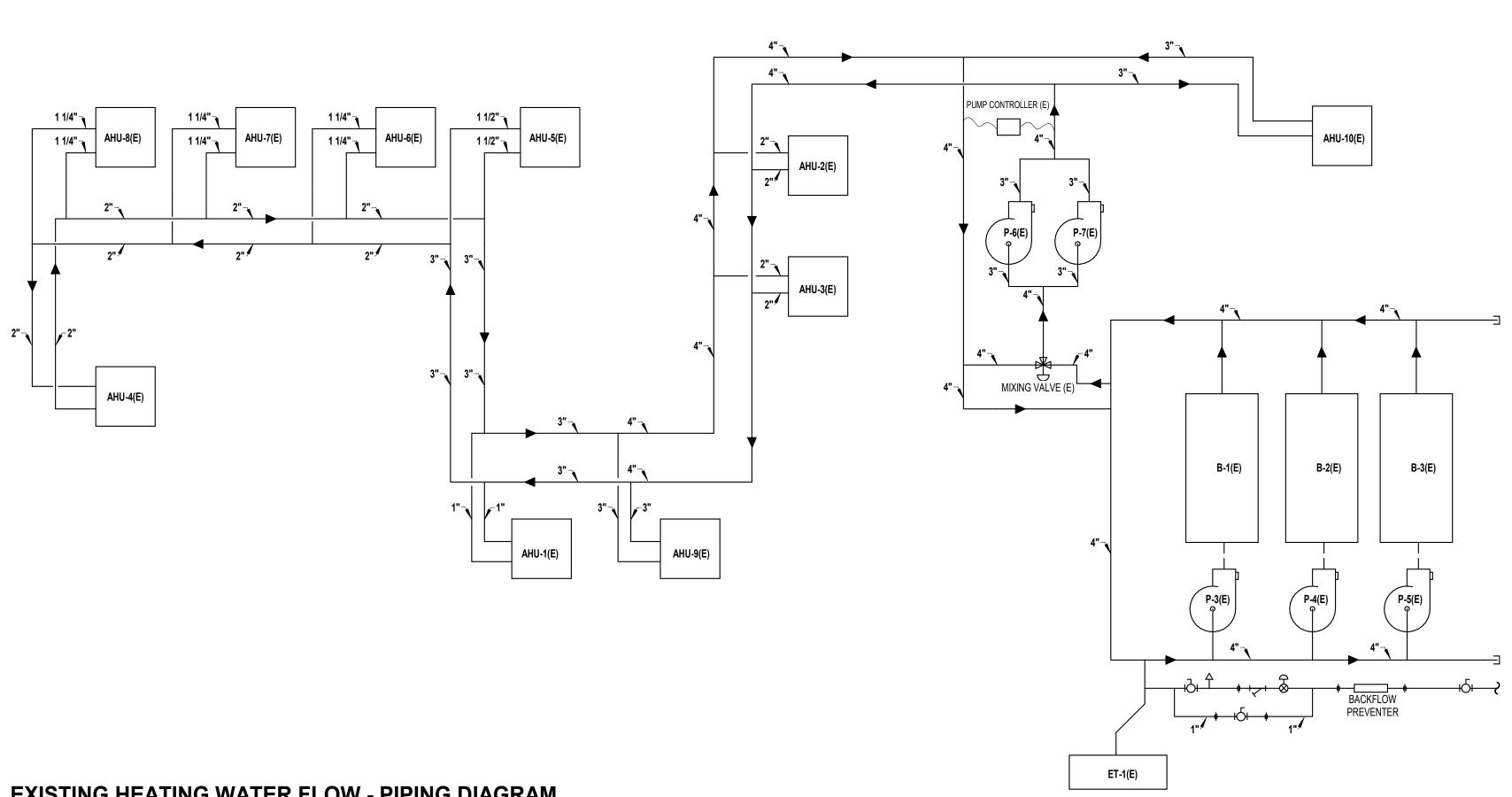
	AR		
	DEVIG	NONE	
_	REVIS	SIONS	
	SHEET INF	ORMATION	

SHEET INF	ORMATION
DATE:	06-18-2025
DRAWN BY:	CTD
CHECKED BY:	LJB
PROJECT #:	25-040

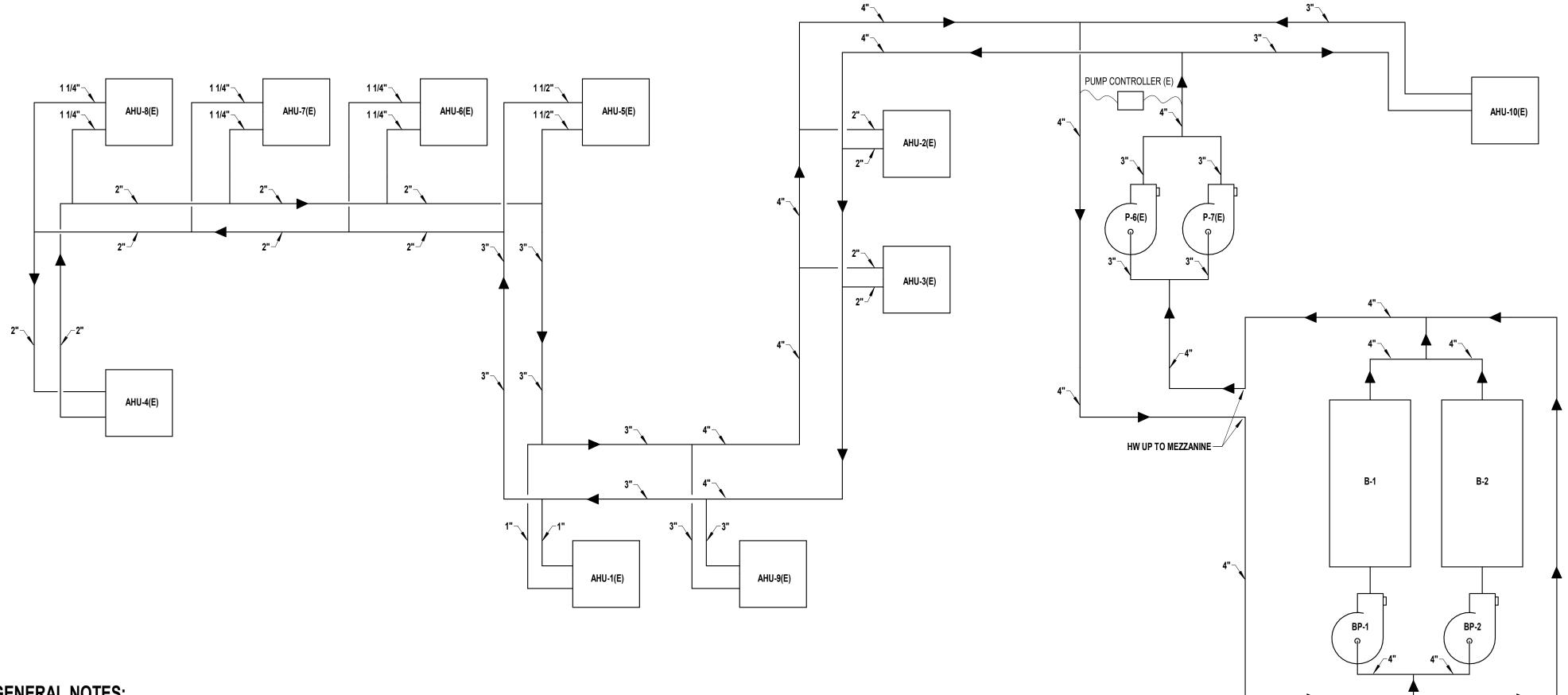
MECHANICAL DETAILS

SHEET NUMBER

**M2.0** 







# **GENERAL NOTES:**

1. MODIFY EXISTING PIPING FOR NEW BOILERS, PUMPS, AND PIPE ROUTING.

2 NEW HEATING WATER FLOW - PIPING DIAGRAM N.T.S.



All drawings and written material appearing herein constitute original and unpublished work of the engineer and may not be duplicated, used, or disclosed without written consent of the engineer. Do not scale drawings. Contractor is responsible for verifying any and all quantities included in these documents when bidding and during construction.



PROJECT INFORMATION ARTS, HUMANITIES & SOCIAL SCIEN
BUILDING & GYMNASIUM, SUNO

<u> </u>				
REVISIONS				

SHEET INFORMATION		
DATE:	06-18-2025	
DRAWN BY:	CTD	
CHECKED BY:	LJB	
PROJECT #:	25-040	

SHEET NAME MECHANICAL DETAILS

SHEET NUMBER

**M2.1** 

## ARTS, HUMANITIES AND SCIENCE SCHEDULES:

SCHE	DULE - BOIL	.ERS															
			CAPACITY			WA	TER		DUC	Γ SIZE	ELECTE	RICAL	SERVICE	EFFIC	CIENCY		
		MAX	IMUM	MINIMUM													
MARK	DESCRIPTION	INPUT	OUTPUT	INPUT	EWT	LWT	FLOW	PD	VENTILATION	COMBUSTION	VOLTS	PH	FREQ	THERMAL	COMBUSTION	WEIGHT	MANUFACTURER / MODEL
											•						
B-1(E)	CREST BOILER	1000000.0 Btu/h	722000.0 Btu/h	50000.0 Btu/h	160 °F	180 °F	95 GPM	12.9 ftH2O	6"	6"	120 V	1	30 Hz	96.2%	96.4%	2000 lb	FBN1001
B-2	CREST BOILER	1000000.0 Btu/h	722000.0 Btu/h	50000.0 Btu/h	160 °F	180 °F	95 GPM	12.9 ftH2O	6"	6"	120 V	1	30 Hz	96.2%	96.4%	2000 lb	FBN1001

### NOTES:

PROVIDE VARIABLE SPEED PRIMARY BOILER PUMP FROM BOILER MANUFACTURER WITH EACH BOILER. PUMP SPEED SHALL BE CONTROLLED BY BOILER. PUMP MODEL SHALL BE LOCHINVAR 100208412.

PROVIDE CONDENSATE NEUTRALIZATION KIT WITH EACH BOILER.

PROVIDE ULTRA HIGH TURN DOWN NATURAL GAS REGULATOR ON EACH INCOMING BOILER GAS LINE. (IF GAS PRESSURE IS ABOVE ALLOWABLE PRESSURE RANGE)

4. PROVIDE BOILERMAG MAGNETIC FILTER / SEPERATOR IN HEATING WATER RETURN, UPSTREAM OF BOILERS OR AT INLET OF EACH BOILER.

# **GYMNASIUM SCHEDULES:**

SCHE	DULE - BOILERS																			
			CAP	ACITY			W	/ATER		VEI	NTILATION	ELEC	CTRICAL	SERVI	CE		EFF	ICIENCY		
		MAXII	MUM	MI	NIMUM			MIN								MIN-MAX INLET				
MARK	DESCRIPTION	INPUT	OUTPUT	INPUT	OUTPUT	INLET	OUTLET	FLOW	MAX FLOW	VENT	COMBUSTION	VOLTS	FLA	PH	FREQ	GAS PRESSURE	THERMAL	COMBUSTION	WEIGHT	MANUFACTURER / MODEL
						'														
B-1	CONDENSING STAINLESS STEEL FIRETUBE	1999000 Btu/Hr	1923000 Btu/Hr	80000 Btu/Hr	76920 Btu/Hr	4"	4"	25 GPM	350 GPM	8"	8"	120	13	1	60	4-14 In. W.C.	96.2%	96.4%	2700 lb	LOCHINVAR FCB 2000N
B-2	CONDENSING STAINLESS STEEL FIRETURE	1999000 Btu/Hr	1923000 Btu/Hr	80000 Btu/Hr	76920 Btu/Hr	4"	4"	25 GPM	350 GPM	8"	8"	120	13	1	60	4-14 In W.C.	96.2%	96.4%	2700 lb	LOCHINVAR FCB 2000N

PROVIDE VARIABLE SPEED PRIMARY BOILER PUMP FROM BOILER MANUFACTURER WITH EACH BOILER. PUMP SPEED SHALL BE CONTROLLED BY BOILER. PUMP MODEL SHALL BE LOCHINVAR 100208412. PROVIDE CONDENSATE NEUTRALIZATION KIT WITH EACH BOILER.

PROVIDE ULTRA HIGH TURN DOWN NATURAL GAS REGULATOR ON EACH INCOMING BOILER GAS LINE. (IF GAS PRESSURE IS ABOVE ALLOWABLE PRESSURE RANGE)

PROVIDE BOILERMAG MAGNETIC FILTER / SEPERATOR IN HEATING WATER RETURN, UPSTREAM OF BOILERS OR AT INLET OF EACH BOILER.

SCHE	DULE - FA	NS											
			FAI	N				FAN I	MOTOR				
MARK	LOCATION	TYPE	AIRFLOW	MIN EXT ESP	MAX SONES	RPM	DRIVE	POWER	VOLTS	PH	FREQ	WEIGHT	MANUFACTURER / MODEL
SF-1	BOILER ROOM	SIDE WALL PROP	1200 CFM	0.28 in-wg	11.3	1043	DIRECT	1/4 HP	120 V	1	60 Hz	200 lb	GREENHECK MODEL AER-20-03-0610-VG

PROVIDE INSULATED FAN HOUSING.

PROVIDE FACTORY MOUNTED AND WIRED SPEED CONTROLLERS FOR ALL DIRECT DRIVE FANS FOR AIR BALANCING.

PROVIDE INTEGRAL DISCONNECTING MEANS.

PROVIDE MOTORS WITH BUILT-IN THERMAL OVERLOAD PROTECTION FOR ALL FANS. ALL EXHAUST AND SUPPLY FANS SHALL BE AMCA RATED FOR BOTH AIR AND SOUND.

6. PROVIDE FACTORY FINISHES ON ALL SURFACE EXPOSED TO VIEW.

SCHEDU	JLE -	PUMPS								
					ELEC.	TRICAL SEF	RVICE			
MARK	GPM	PUMP HEAD	RPM	TYPE	HP	VOLTS	PH	TYPE	LOCATION	MANUFACTURER / MODEL
(E) P-6	165	65 ft.	1800	VERTICAL IN-LINE CENTRIFUGAL	7.5	208	3	VARIABLE SPEED PUMP	NEAR BOILER	ARMSTRONG 4380 3X3X10
(E) P-7	165	65 ft.	1800	VERTICAL IN-LINE CENTRIFUGAL	7.5	208	3	VARIABLE SPEED PUMP	NEAR BOILER	ARMSTRONG 4380 3X3X10

SCHEDULE - COMPRESSION TANK								
MARK	DESCRIPTION	CAPACITY	WEIGHT	MANUFACTURER / MODEL				
CT-1	NEW COMPRESSION TANK	240 GALLONS	2500 lb	BELL & GOSSETT 116672 OR PRIOR APPROVED EQUAL				

SCHEDU	SCHEDULE - AIR SEPARATOR								
MARK	SERVICE	FLUID	FLOW	WEIGHT	MANUFACTURER / MODEL				
AS-1	HEATING WATER	WATER	300 GPM	300 lb	BELL & GOSSETT ROLAIRTROL R-4F OR PRIOR APPROVED EQUAL				

SELF-SUPPORTING IN PIPING SYSTEM - MANUFACTURER REVIEW REQUIRED IF ANY PIPING LOADS SHALL BE PRESENT.

CARBON STEEL SHELL 304 STAINLESS STEEL SYSTEM STRAINER WITH 3/16" PERFORATIONS AND 51% OPEN AREA. DESIGNED AND CONSTRUCTED PER ASME SECTION VIII, DIVISION 1

2. STANDARD DESIGN PRESSURE AND TEMPERATURE SHALL BE 125 PSI AT 350°F.

	R	S H ERING	
7600 Innovation P Baton Rouge, LA		225.332.0222 parisheng.com	1

All drawings and written material appearing herein constitute original and unpublished work of the engineer and may not be duplicated, used, or disclosed without written consent of the engineer. Do not scale drawings. Contractor is responsible for verifying any and all quantities included in these documents when bidding and during construction.



C ARTS, HUMANITIES & SOCIAL S
BUILDING & GYMNASIUM, SI

PROJECT INFORMATION

REVISIONS	

_		
	SHEET INF	ORMATION
Ī	DATE:	06-18-2025
	DRAWN BY:	CTD
	CHECKED BY:	LJB
	PROJECT #:	25-040

SHEET NAME MECHANICAL SCHEDULES

SHEET NUMBER

M3.0

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.

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

# POWER DEVICES (PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE)

 $\rightleftharpoons$ DUPLEX RECEPTACLE

> DUPLEX RECEPTACLE MOUNTED FLUSH TO CEILING OR MOUNTED TO STRUCTURE IN AREAS WITH NO CEILING; SUBSCRIPT (WHEN USED): CR - CORD REEL

ABOVE-COUNTER DUPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPLASH OR 44" (WHICHEVER IS LOWER)

GFCI DUPLEX RECEPTACLE

ABOVE-COUNTER GFCI DUPLEX RECEPTACLE: MOUNT AT 4" ABOVE COUNTER OR BACKSPLASH OR 44" (WHICHEVER IS LOWER

QUADRAPLEX RECEPTACLE

ABOVE-COUNTER QUADRAPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPLASH OR 44" (WHICHEVER IS LOWER)

SPECIAL PURPOSE RECEPTACLE; VERIFY NEMA CONFIGURATION WITH THE MANUFACTURER OF THE EQUIPMENT SERVED

VOICE/DATA/POWER FLUSH FLOOR BOX

DUPLEX RECEPTACLE FLUSH FLOOR BOX

QUADRAPLEX RECEPTACLE FLUSH FLOOR BOX

RECEPTACLE SWITCHING; EDGE SHADING INDICATES: NONE - DEVICE NOT SWITCHED LEFT - BOTTOM (DUPLEX) OR LEFT TWO (QUAD) SWITCHED RIGHT - TOP (DUPLEX) OR RIGHT TWO (QUAD) SWITCHED

CATV

CB

CKT

CLG

CORR

CT

CTRL

DISC.

DIST.

DWG

ECB

CABLE TELEVISION

CIRCUIT BREAKER

CURRENT TRANSFORMER

CIRCUIT

CORRIDOR

CONTROLLER

DISCONNECT

DISTRIBUTION

DRAWING

TO BE DEMOLISHED

EXISTING TO REMAIN

ENCLOSED CIRCUIT BREAKER

**EMPTY CONDUIT** 

**ABBREVIATIONS** 

**AFCI** 

AFG

AWG

BLDC

PROVIDE 3/4"EC WITH PULL STRING FROM THE DEVICE LOCATION SHOWN ON THE DRAWINGS TO AN ACCESSIBLE LOCATION ABOVE CEILING)

PA SYSTEM SPEAKER MOUNT CALL-IN SWITCH

ABOVE COUNTER (6" ABOVE BACKSPLASH)

AMP SYMMETRICAL INTERRUPTING CAPACITY RMS

ARC FAULT CIRCUIT INTERRUPTER

PA SYSTEM SPEAKER

PA SYSTEM SPEAKER VOLUME CONTROL

AMPERE(S)

AMPERE(S) FUSED

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

AMERICAN WIRE GAUGE

AMPERE(S) TRIP

BELOW GRADE

BUILDING

BREAKER

CONDUIT

CATEGORY

TELECOM TERMINAL BOARD

DUPLEX DATA OUTLET, AS ABOVE, MOUNTED FLUSH TO CEILING OR MOUNTED TO STRUCTURE IN AREAS WITH NO CEILING

DUPLEX DATA OUTLET. AS ABOVE. MOUNTED ABOVE COUNTER

DATA/VOICE OUTLET; PROVIDE 1"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, ONE (1) BLUE AND ONE (1) WHITE CAT 6 CABLES FROM THE OUTLET TO THE TELECOM TERMINAL BOARD

VOICE OUTLET; PROVIDE 1"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, ONE (1) WHITE CAT 6 CABLE FROM THE OUTLET TO THE TELECOM TERMINAL BOARD

DUPLEX DATA FLUSH FLOOR BOX; PROVIDE 1"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, ONE (1) BLUE CAT 6 CABLE FROM THE OUTLET TO THE TELECOM TERMINAL BOARD

WIRELESS ACCESS POINT (BY OWNER): PROVIDE 1"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, ONE (1) BLUE CAT 6 CABLE FROM THE ACCESS POINT LOCATION TO THE TELECOM TERMINAL BOARD

> LEGRAND EVOLUTION 4-GANG OR APPROVED EQUAL TV WALL BOX WITH ONE DUPLEX RECEPTACLE, ONE DUPLEX DATA OUTLET, ONE COAX OUTLET, AND ONE SPARE GANG; PROVIDE 1"C, TWO (2) BLUE CAT 6 CABLES AND 1"C, ONE (1) CATV CABLE FROM THE BOX TO THE TELECOM TERMINA BOARD; PROVIDE CONDUIT AND WIRE FOR POWER PER THE PANEL SCHEDULE.

LEGRAND EVOLUTION 4-GANG OR APPROVED EQUAL COMBO RECESSED FLOOR BOX WITH TWO (2) DUPLEX RECEPTACLES, FOUR (4) DATA OUTLETS (UNDER A SINGLE PLATE), AND SPEAKER CONNECTIONS; PROVIDE 1-1/4"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, FOUR (4) BLUE CAT 6 CABLES FROM THE BOX TO THE TELECOM TERMINA BOARD. ROUTE 1"EC WITH PULLSTRING FROM THE BOX TO THE TV WALL BOX IN THE SAME ROOM FOR SPEAKER CABLING. PROVIDE CONDUIT AND WIRE FOR POWER PER THE PANEL SCHEDULE.

(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE FOR POWER AND PER THE MANUFACTURER'S SPECIFICATIONS FOR CONTROLS)

LIGHT FIXTURE; UPPERCASE LETTER(S) INDICATE FIXTURE  $\Delta \Delta \Delta$ TYPE: LOWERCASE LETTER(S) INDICATE ASSOCIATED CONTROLS ID; SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTIONS AND MOUNTING TYPES

EXIT LIGHT FIXTURE. ARROWS (IF USED) INDICATE DIRECTION, FILLED IN QUADRANT(S) INDICATE NUMBER AND ORIENTATION OF ILLUMINATED FACES. LETTER(S) INDICATE FIXTURE TYPE. SEE LIGHTING FIXTURE

SCHEDULE FOR FIXTURE DESCRIPTION. CEILING MOUNTED OCCUPANCY SENSOR WITH 360° COVERAGE. LOCATE AND INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS; TEST AND ADJUST SENSITIVITY AFTER INSTALLATION AND SET TIME

DELAY AS REQUIRED BY THE OWNER CEILING MOUNTED OCCUPANCY SENSOR, AS ABOVE, CONFIGURED FOR VACANCY OPERATION

PHOTOELECTRIC CELL, EXTERIOR RATED; AIM AND SHIELD SENSOR FROM INTERIOR AND EXTERIOR ARTIFICIAL LIGHT SOURCES

> SUBSCRIPT (WHEN USED): NONE - SINGLE POLE TOGGLE SWITCH 3 - THREE-WAY SWITCH

> > a,b,c etc. - SWITCH ID

D - LINEAR SLIDE DIMMER SWITCH

3D - THREE-WAY LINEAR SLIDE DIMMER SWITCH O - WALL MOUNTED OCCUPANCY SENSOR

30 - THREE-WAY SWITCH WITH OCCUPANCY SENSOR

EXHAUST FAN

**EMERGENCY** 

**EQUIPMENT** 

FOOTCANDLE

FAN COIL UNIT

FULL LOAD AMPERE(S)

EMER.

EQUIP.

EXIST.

**EQUIPMENT GROUNDING CONDUCTOR** 

ELECTRICAL METALLIC TUBING

ELECTRIC WATER COOLER

ELECTRIC WATER HEATER

FIRE ALARM CONTROL PANEL

FIRE ALARM CONTROL PANEL REMOTE ANNUNCIATOR

(REFER TO DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS)

FIRE ALARM
(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE FOR POWER AND CONDUIT AND CABLING PER THE MANUFACTURER'S SPECIFICATIONS)

FIRE ALARM CONTROL PANEL FIRE ALARM SYSTEM PULL STATION FIRE ALARM SYSTEM STROBE

FIRE ALARM SYSTEM CHIME/STROBE  $\square$ FIRE ALARM SYSTEM HORN/STROBE

FIRE ALARM SYSTEM SPEAKER/STROBE

 $\infty$ FIRE ALARM SYSTEM CEILING MOUNT STROBE  $\mathbb{C}$ FIRE ALARM SYSTEM CEILING MOUNT CHIME/STROBE

FIRE ALARM SYSTEM CEILING MOUNT HORN/STROBE FIRE ALARM SYSTEM CEILING MOUNT SPEAKER/STROBE

FIRE ALARM SYSTEM DUCT SMOKE DETECTOR

FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR FIRE ALARM SYSTEM THERMAL DETECTOR

FIRE ALARM SYSTEM SMOKE DETECTOR

SECURITY (EQUIPMENT PROVIDED BY OWNER/OTHERS)

JUNCTION BOX FOR KEYPAD; INSTALL 48" AFF AND PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING

JUNCTION BOX FOR DOOR CONTACT (MAGNETIC LOCK); PROVIDE 3/4"EC WITH PULL STRING FROM THE DOOR FRAME TO THE JUNCTION BOX AND FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING

JUNCTION BOX FOR CARD READER; PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING

JUNCTION BOX FOR ELECTRIC STRIKE LOCK; PROVIDE 3/4"EC WITH PULL STRING FROM THE DOOR FRAME TO THE JUNCTION BOX AND FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING

JUNCTION BOX FOR DOOR OPERATOR; PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING NEAR THE CONTROLLED DOOR

JUNCTION BOX FOR MOTION DETECTOR; PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING

JUNCTION BOX FOR CEILING MOUNTED CAMERA; PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING

JUNCTION BOX FOR WALL MOUNTED CAMERA; PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING

PROVIDE 1"EC WITH PULL STRING FROM THE DEVICE LOCATION SHOWN ON THE DRAWINGS TO AN ACCESSIBLE LOCATION ABOVE CEILING)

FLOOR MOUNTED MICROPHONE OUTLET CEILING MOUNTED SPEAKER

WALL MOUNTED SPEAKER

HEALTHCARE

(PROVIDE 1"EC WITH PULL STRING FROM THE DEVICE LOCATION SHOWN ON THE DRAWINGS TO AN ACCESSIBLE LOCATION ABOVE CEILING)

DOCTOR'S DICTATION

NURSE CALL SYSTEM EMERGENCY CALL-IN STATION

NURSE CALL SYSTEM BEDSIDE PATIENT STATION NURSE CALL SYSTEM STAFF STATION

NURSE CALL SYSTEM CORRIDOR DOME LIGHT

NURSE CALL SYSTEM CODE BLUE STATION

FOC

G, GND

GFCI

LTG

MCA

FIBER OPTIC CABLE

GALVANIZED RIGID STEEL

1,000 WATT HOURS

1,000 VOLT AMPERES

LOCAL AREA NETWORK

LIGHTING CONTACTOR

MINIMUM CIRCUIT AMPACITY

LIGHTING

GROUNDING ELECTRODE CONDUCTOR

GROUND FAULT CIRCUIT INTERRUPTER

1,000 AMP SYMMETRICAL INTERRUPTING CAPACITY RMS

GROUND

**HANDHOLE** 

**ELECTRICAL GENERAL NOTES** 

1. ALL ELECTRICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL

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

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.

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

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

CONTRACT, EXTEND TO QUANTITIES OR DIMENSIONS, IMPLY THAT THE EQUIPMENT CAN BE INSTALLED OR OPERATE

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

LIGHTING GENERAL NOTES

VERIFY THE EXACT LOCATION OF ALL LIGHTING SWITCHES WITH THE ARCHITECT PRIOR TO ROUGH-IN. VERIFY THE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO

VERIFY THE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS WITH THE MANUFACTURER'S SPECIFICATIONS

PRIOR TO INSTALLATION FOR MAXIMUM PERFORMANCE. EMERGENCY FIXTURES AND EXIT FIXTURES SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT. BRANCH CIRCUIT WIRING TO EXIT FIXTURES AND TO BATTERY INVERTERS WITHIN FIXTURES WITH INTEGRAL BATTERY UNITS SHALL BE

UNSWITCHED, CONNECTED AHEAD OF ANY CONTROL SWITCHING. WALL MOUNT TYPE "Z" FIXTURES ABOVE DOOR AS SHOWN ON DRAWINGS. COORDINATE WITH THE ARCHITECT PRIOR TO

MOUNT TYPE "EM" FIXTURES 8'-0" AFF UNLESS OTHERWISE NOTED.

VERIFY THE CEILING TYPES FOR ALL LIGHT FIXTURES TO BE FLUSH MOUNTED OR SUSPENDED AND ADJUST FIXTURE MOUNTING TYPES IN ACCORDANCE WITH THE CEILING TYPE, AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL REQUIRED MOUNTING HARDWARE ALL VANITY FIXTURES SHALL BE MOUNTED WITH 0'-3" OF SPACE BETWEEN THE BOTTOM OF THE FIXTURE AND THE TOP OF

THE MIRROR UNLESS OTHERWISE NOTED. VERIFY THE EXACT MOUNTING LOCATION FOR ANY PHOTOELECTRIC CELLS WITH THE ARCHITECT PRIOR TO ROUGH-IN.

ALL PHOTOELECTRIC CELLS MUST FACE NORTH. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL DEVICES/SWITCHES/DIMMERS WITH LIGHTING FIXTURES AND BALLASTS/DRIVERS PRIOR TO SUBMITTAL.

COORDINATE LOCATION OF LIGHT FIXTURES IN MECHANICAL ROOMS WITH DIVISION 15/23 PLANNED EQUIPMENT LOCATION AND DUCT INSTALLATION. WALL MOUNT LIGHTS OR PROVIDE PENDANT MOUNTING AS REQUIRED TO ILLUMINATE THE

WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN THE SAME AREA. MOTION DETECTION BY ONE SENSOR SHALL ILLUMINATE ALL LIGHTING IN THE RESPECTIVE AREA.

TELECOMMUNICATIONS GENERAL NOTES

PROVIDE 1" CONDUIT AND TWO (2) CAT 6 CABLES AT EACH DATA OUTLET SHOWN. ROUTE TO ABOVE CEILING AND ROUTE TO TELEPHONE BACKBOARD IN IT ROOM. TERMINATE AND CONNECT STATION CABLES TO PATCH PANEL, FOLLOWING THE

OWNER'S LABELING CONVENTIONS FOR ALL HORIZONTAL CABLING OWNER SHALL PROVIDE THE WALL MOUNT DATA RACK, ALL ITEMS INCLUDED IN THE DATA RACK, AND ANY NECESSARY [ELEPHONE EQUIPMEN] PLYWOOD FOR BACKBOARDS SHALL BE 0'-1" AC INDOOR GRADE, FIRE RETARDANT, AND PAINTED AS SPECIFIED.

COMMON BOND RACKS, PATCH PANELS, CABLE SHIELDS, PROTECTORS, AND THE BUILDING MAIN ELECTRICAL GROUNDING CONDUCTORS SHALL BE, AT MINIMUM, #6 AWG INSULATED AND STRANDED COPPER. FASTENERS SHALL BE SUBMIT DIGITAL PHOTOGRAPHS OF ALL TERMINATIONS TO MAIN ELECTRICAL SERVICE GROUNDING MEANS.

ALL BACKBOARDS SHALL BE EQUIPPED WITH D-RINGS SPACED AT 1'-0" APART AROUND ALL EDGES OF THE PLYWOOD TO SUPPORT CABLE AND WIRE CAT 6 CABLES FOR DATA OUTLETS SHALL HAVE BLUE JACKETS AND CAT 6 CABLES FOR VOICE OUTLETS SHALL HAVE

NORMALLY OPEN

OVERHEAD ELECTRICAL

OVERHEAD

PULL BOX

PANEL

OUTSIDE PLANT

PHOTOVOLTAIC

RECEPTACLE

REQUIRED

POLYVINYL CHLORIDE

UTILITY POWER POLE

WEATHERPROOF IN-USE COVER

**SPECIAL SYSTEMS GENERAL NOTES** 

VERIFY EXACT LOCATION, VOLTAGE, PHASE, AMPERAGE, ETC. OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL

CONTRACTOR PRIOR TO ORDERING ELECTRICAL GEAR. INTERCONNECT THE HOOD EXHAUST AND SUPPLY FANS WITH HOOD EXTINGUISHING SYSTEM SUCH THAT WHEN HOOD EXTINGUISHING SYSTEM IS ACTIVATED, THE EQUIPMENT BELOW THE HOOD AND HOOD SUPPLY FAN ARE DE-ENERGIZED AND THE HOOD EXHAUST FAN WILL START IF NOT RUNNING

INTERCONNECT THE HOOD EXTINGUISHING SYSTEM WITH THE FIRE ALARM SYSTEM IF APPLICABLE. FOR ALL CAMERA LOCATIONS, PROVIDE ONE (1) GREEN JACKETED CAT 6 CABLE IN 3/4" CONDUIT BACK TO ASSOCIATED

DATA CLOSET FOR ALL WIRELESS ACCESS POINT LOCATIONS, PROVIDE ONE (1) YELLOW JACKETED CAT 6 CABLE IN 3/4" CONDUIT BACK TO ASSOCIATED DATA CLOSET

PROVIDE AN ADDITIONAL 10%, OR ONE (1), WHICHEVER IS GREATER, OF THE FOLLOWING DEVICES WHICH ARE INCLUDED IN THE PROJECT, AND INSTALL THEM AT THE DIRECTION OF THE ARCHITECT, ENGINEER, OR AHJ DURING THE COURSE OF THE PROJECT. PROVIDE ALL REQUIRED CONDUIT, INTERCONNECTIONS, CONDUCTORS, PROGRAMMING, ETC. AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER: INITIATING DEVICES (PULL STATIONS, SMOKE DETECTORS, THERMAL DETECTORS, ETC.), NOTIFICATION APPLIANCES (STROBES, HORN STROBES, SPEAKER STROBES, SPEAKERS, DUCT DETECTORS, ETC.), AND MONITORING MODULES.

VERIFY REQUIRED QUANTITY OF DUCT DETECTORS WITH DUCTWORK CONFIGURATION AS IT IS ACTUALLY INSTALLED. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

**DEMOLITION GENERAL NOTES** 

1. 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 CAUSE 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.

10. EXISTING DEVICES ARE SHOWN IN GRAY. CONDUIT AND WIRING ARE NOT GENERALLY SHOWN AND SHALL BE THE

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.

RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL DEMOLITION WORK AND CLARIFICATION OF INDICATED WORK WILL BE 11. 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** 

E2.0 ELECTRICAL DETAILS

SUPPLY FAN

STANDARD

TELEPHONE

TELEVISION

**TYPICAL** 

UNDERGROUND

UNDERGROUND PRIMARY

TMGB

UGP

SOLID NEUTRAL

SURGE PROTECTIVE DEVICE

TELECOMMUNICATIONS

TELECOM TERMINAL BOARD

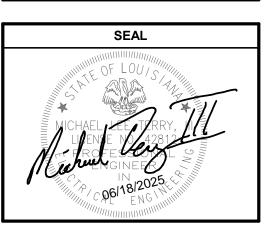
TELECOMMUNICATIONS GROUND BUS

TELECOMMUNICATIONS MAIN GROUND BUS

TRANSIENT VOLTAGE SURGE SUPPRESSION

COVER COVER SHEET ELECTRICAL COVER SHEET ARTS & HUMANITIES ELECTRICAL PLAN ARTS & HUMANITIES ENLARGED ELECTRICAL PLAN GYMNASIUM ELECTRICAL PLAN GYMNASIUM ENLARGED ELECTRICAL PLANS

All drawings and written material appearing herein constitute riginal and unpublished work of the engineer and may no duplicated, used, or disclosed without written consent the engineer. Do not scale drawings. Contractor is esponsible for verifying any and all quantities included in these documents when bidding and during construction



<u>ර</u> 5 ACE SO IAS 图 园 ō≧  $\tilde{\Omega} \supset \Omega$ 

PROJECT INFORMATION

()

_		
	REVISIONS	
L		
L		
L		

UNDERGROUND SECONDARY

UNLESS OTHERWISE NOTED

VOLTS ALTERNATING CURRENT

VARIABLE FREQUENCY DRIVE

VOLTS DIRECT CURRENT

WATER HEATER

WEATHERPROOF

TRANSFORMER

UNDERWRITER'S LABORATORY, INC.

UNIT HEATER

VOLTS

VDC

XFMR

SHEET INFORMATION							
DATE:	06-18-2025						
DRAWN BY:	SPG						
CHECKED BY:	SPG						
PROJECT #:	25-040						

SHEET NAME **ELECTRICAL COVER SHEET** 

SHEET NUMBER

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

MCB

MECH.

MOCP

MTD

MAIN CIRCUIT BREAKER

MCM/KCMIL 1,000 CIRCULAR MILS

MECHANICAL

MANHOLE

MOUNTED

MOUNTING

NON-FUSED

**NIGHT LIGHT** 

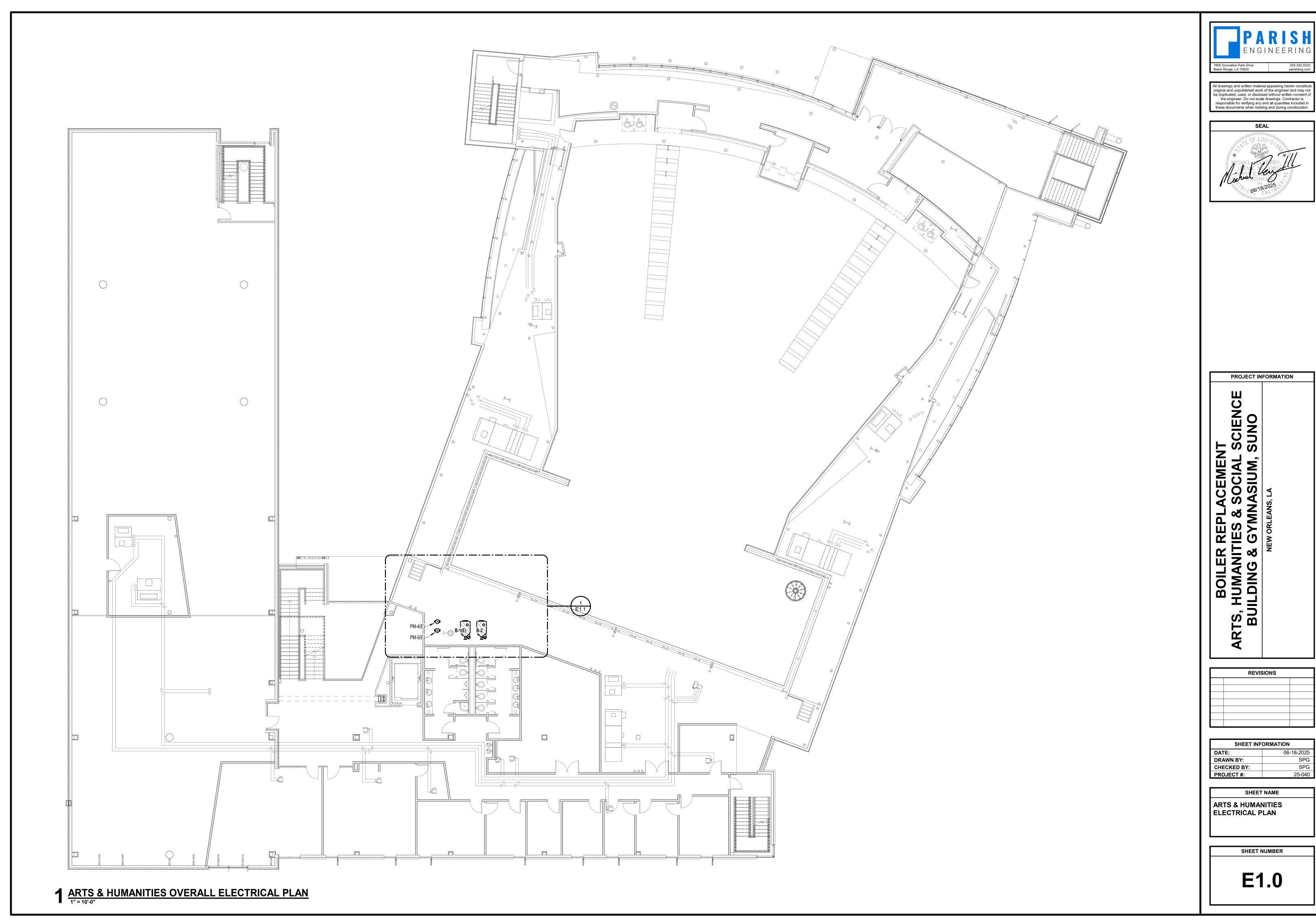
NOT IN CONTRACT

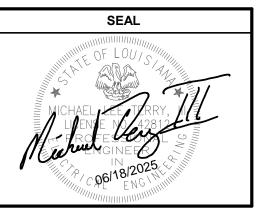
MAIN LUGS ONLY

NORMALLY CLOSED

NATIONAL ELECTRICAL CODE

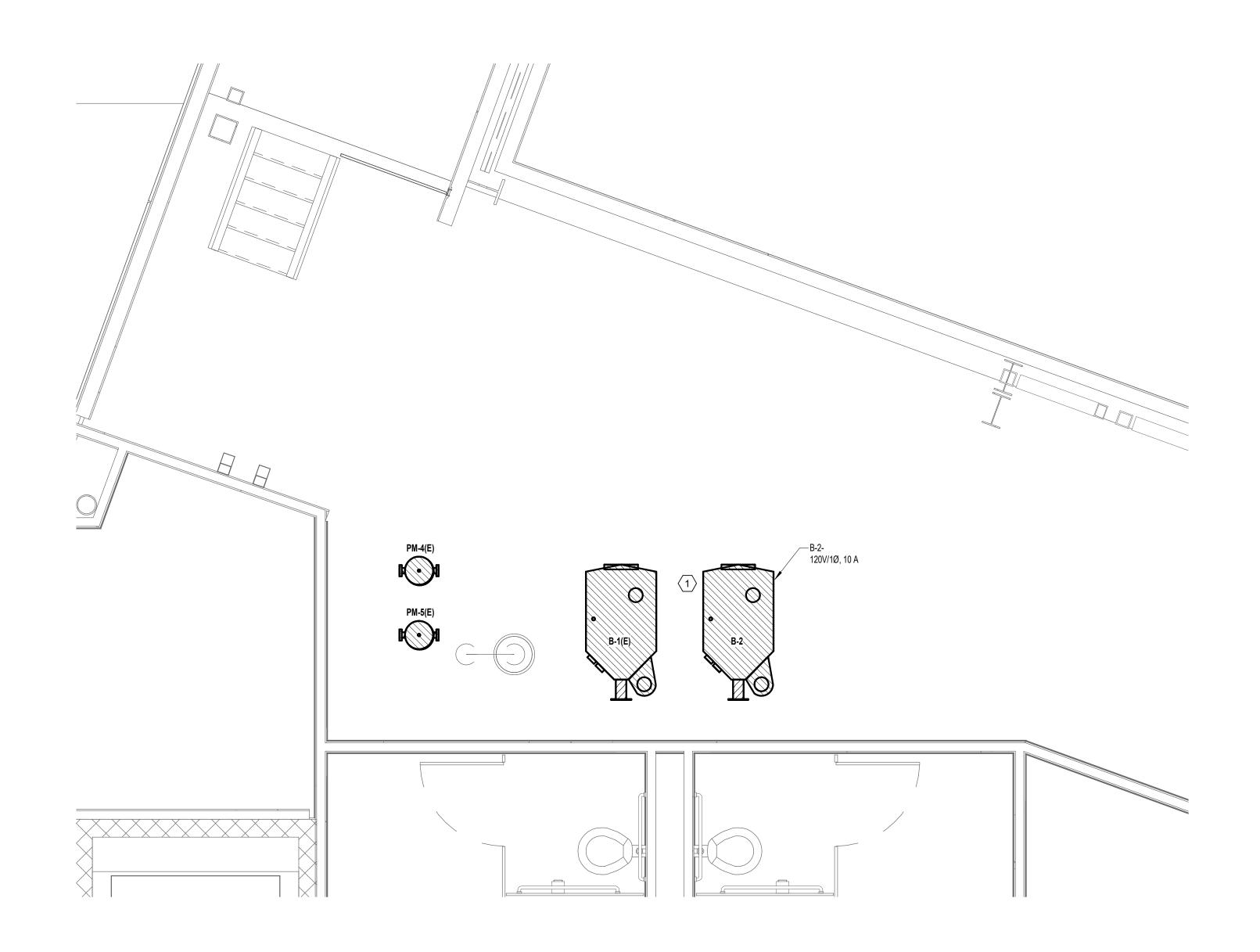
MAXIMUM OVERCURRENT PROTECTION





REVISIONS	

SHEET INF	SHEET INFORMATION			
DATE:	06-18-2025			
DRAWN BY:	SPG			
CHECKED BY:	SPG			
PROJECT #:	25-040			
_				



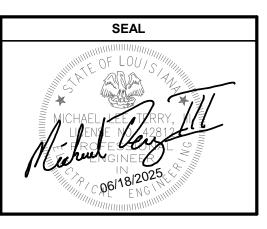
# 1 ENLARGED BOILER ROOM ELECTRICAL PLAN 3/8" = 1'-0"

## ELECTRICAL KEYNOTES

NEW BOILER INSTALLED BY THE MECHANICAL CONTRACTOR. CONNECT EXISTING 120V CIRCUIT TO NEW BOILER. IF NO EXISTING CIRCUIT IS INSTALLED, PROVIDE 3/4"C, 2#12 THWN & 1#12 GND AND ROUTE TO A NEW, CONTRACTOR FURNISHED AND INSTALLED 20A/1P BREAKER IN THE NEAREST AVAILABLE 120 VOLT PANEL.



All drawings and written material appearing herein constitute original and unpublished work of the engineer and may not be duplicated, used, or disclosed without written consent of the engineer. Do not scale drawings. Contractor is responsible for verifying any and all quantities included in these documents when bidding and during construction.



ARTS, HUMANITIES & SOCIAL SCIENCE
BUILDING & GYMNASIUM, SUNO
NEW ORLEANS, LA

PROJECT INFORMATION

·		·	
SHEET	INFORM	ATION	
DATE:	DATE: 06-18-2025		

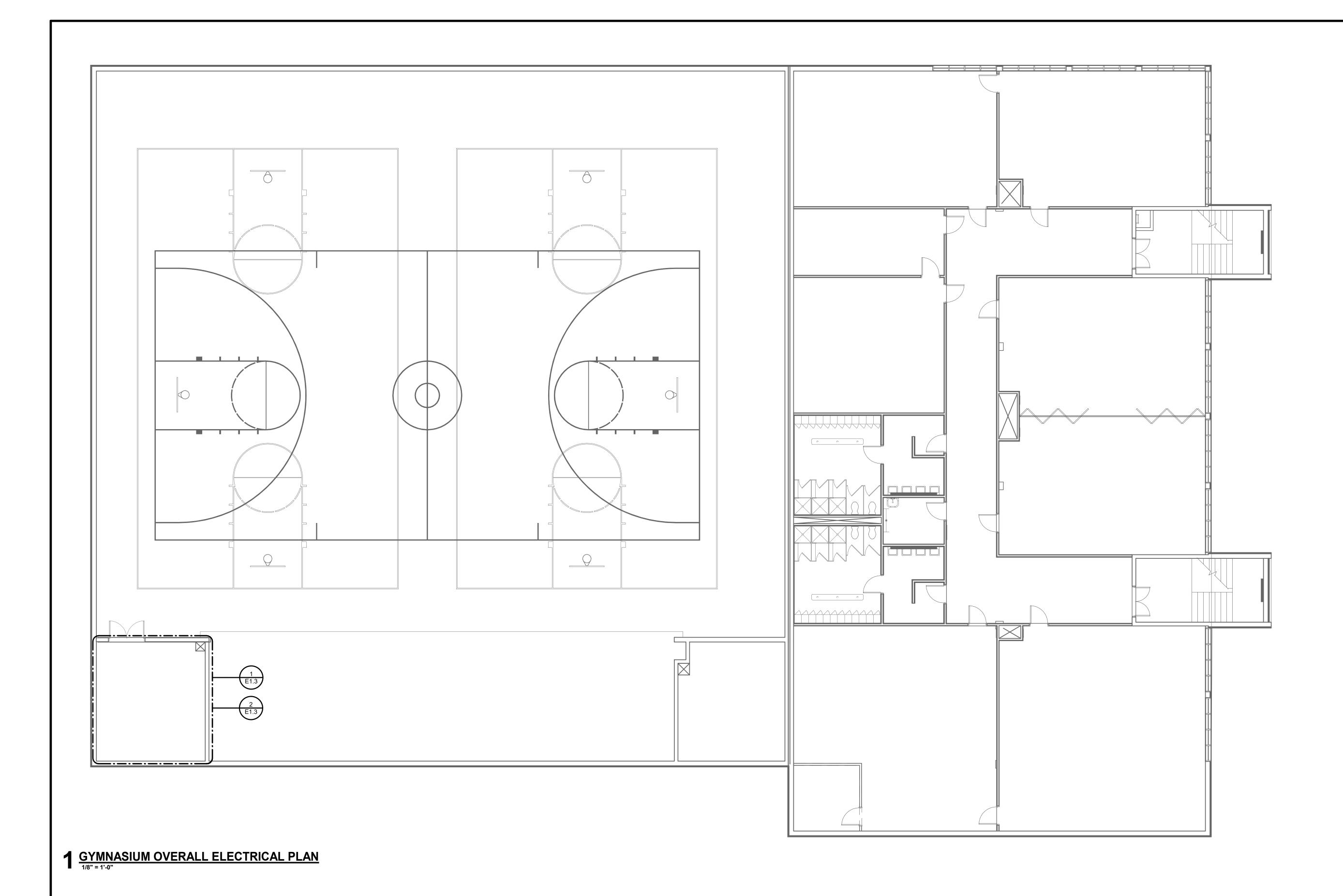
**REVISIONS** 

SHEET INF	SHEET INFORMATION			
DATE:	06-18-2025			
DRAWN BY:	SPG			
CHECKED BY:	SPG			
PROJECT #:	25-040			

ARTS & HUMANITIES
ENLARGED ELECTRICAL
PLAN

SHEET NUMBER

E1.1

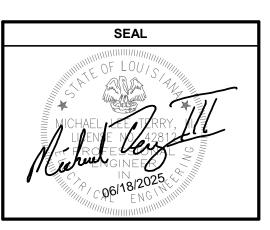


PARISH
ENGINEERING

7600 Innovation Park Drive
Baton Rouge, LA 70820

All drawings and written material appearing herein constitute

All drawings and written material appearing herein constitute original and unpublished work of the engineer and may not be duplicated, used, or disclosed without written consent of the engineer. Do not scale drawings. Contractor is responsible for verifying any and all quantities included in these documents when bidding and during construction.



ARTS, HUMANITIES & SOCIAL SCIENCE
BUILDING & GYMNASIUM, SUNO
NEW ORLEANS, LA

PROJECT INFORMATION

REVISIONS				

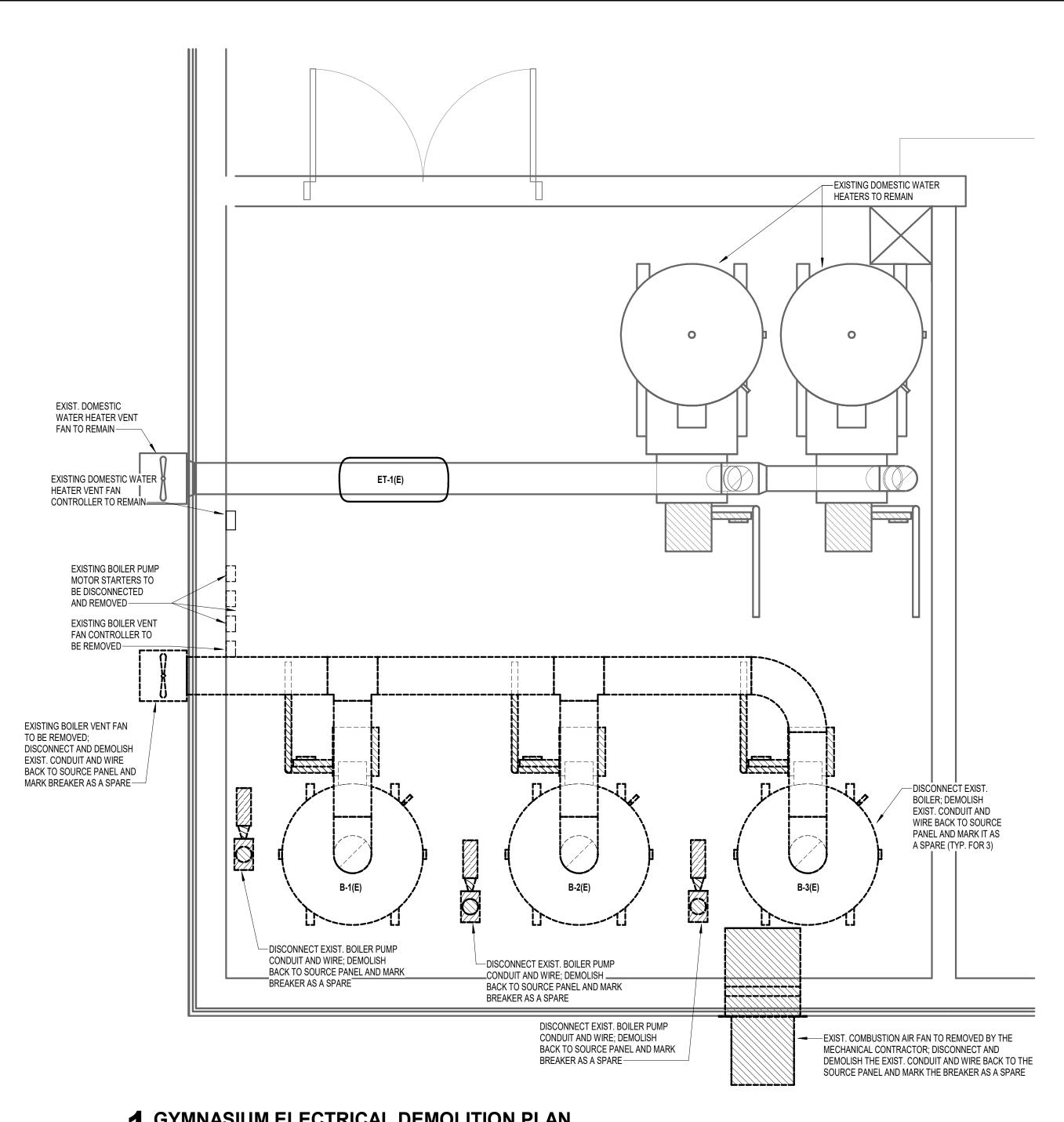
SHEET INFORMATION			
DATE:	06-18-2025		
DRAWN BY:	SPG		
CHECKED BY:	SPG		
PROJECT #:	25-040		

SHEET NAME

GYMNASIUM ELECTRICAL
PLAN

SHEET NUMBER

E1.2



EXISTING DOMESTIC WATER HEATERS TO REMAIN EXIST. DOMESTIC WATER HEATER EXIST. DOMESTIC WATER HEATER VENT FAN CONTROLLER B-2-120V/1Ø, 13 FLA— 120V/1Ø, 13 FLA-— SF-1-120V/1Ø, 1/4 HP 2 GYMNASIUM ELECTRICAL RENOVATION PLAN
1/2" = 1'-0"

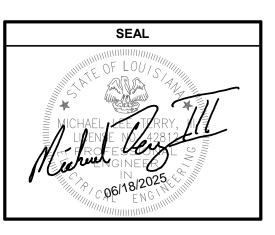
**GYMNASIUM ELECTRICAL DEMOLITION PLAN**1/2" = 1'-0"

## **ELECTRICAL KEYNOTES**

- 1 NEW BOILER INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE 3/4"C, 2#12 THWN & 1#12 GND AND ROUTE TO EXIST. SPARE 20A/1P BREAKER IN THE NEAREST AVAILABLE 120 VOLT PANEL THAT PREVIOUSLY FED THE EXISTING BOILER.
- PROIVIDE 3/4"C, 2#12 THWN & 1#12 GND AND ROUTE TO A NEW, CONTRACTOR FURNISHED AND INSTALLED 20A/1P BREAKER IN THE NEAREST AVAILABLE 120 VOLT

	 RISH
7600 Innovation P Baton Rouge, LA	225.332.0222 parisheng.com

All drawings and written material appearing herein constitute original and unpublished work of the engineer and may not be duplicated, used, or disclosed without written consent of the engineer. Do not scale drawings. Contractor is responsible for verifying any and all quantities included in these documents when bidding and during construction.



ARTS, HUMANITIES & SOCIAL
BUILDING & GYMNASIUM,

PROJECT INFORMATION

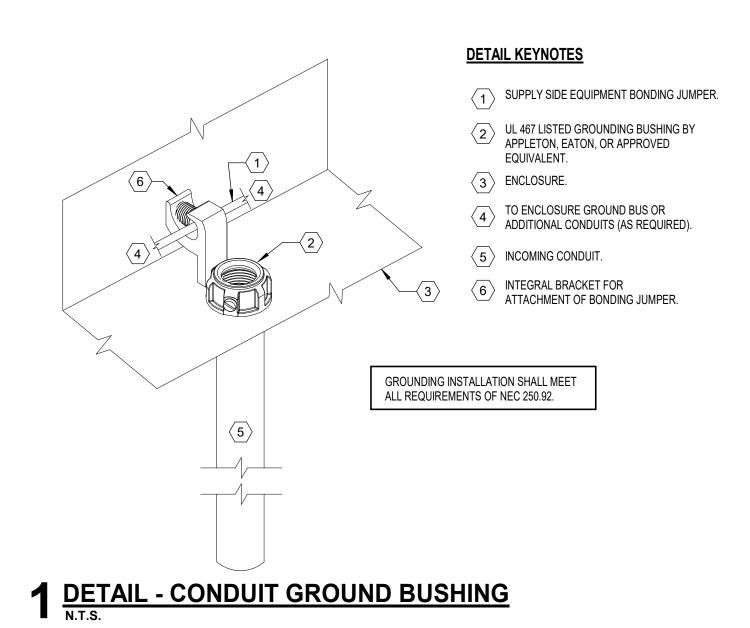
RE\	/ISIONS	

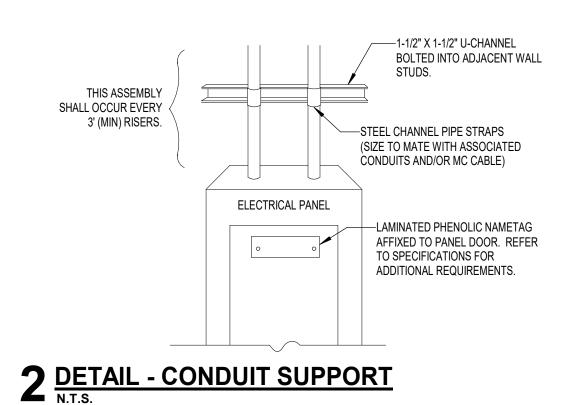
SHEET INFORMATION				
DATE:	06-18-2025			
DRAWN BY:	SPG			
CHECKED BY:	SPG			
PROJECT #:	25-040			

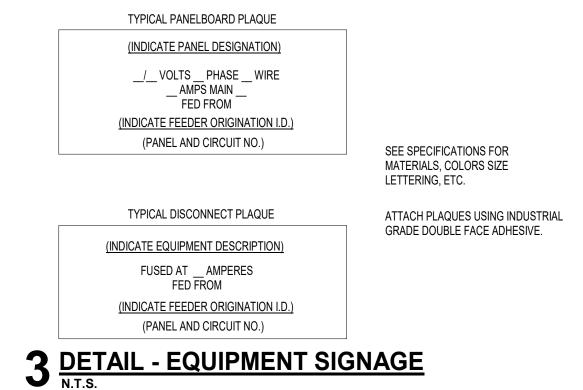
SHEET NAME GYMNASIUM ENLARGED **ELECTRICAL PLANS** 

SHEET NUMBER

E1.3

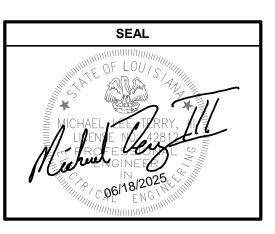








All drawings and written material appearing herein constitute original and unpublished work of the engineer and may not be duplicated, used, or disclosed without written consent of the engineer. Do not scale drawings. Contractor is responsible for verifying any and all quantities included in these documents when bidding and during construction.



ARTS, HUMANITIES & SOCIAL SCIENCE
BUILDING & GYMNASIUM, SUNO
NEW ORLEANS, LA

SHEET INFORMATION				
<b>DATE</b> : 06-18-2025				
DRAWN BY:	SPG			

**REVISIONS** 

SHEET INFORMATION				
DATE:	06-18-2025			
DRAWN BY:	SPG			
CHECKED BY:	SPG			
PROJECT #:	25-040			

SHEET NAME

ELECTRICAL DETAILS

SHEET NUMBER

**E2.0** 

