

MECHANICAL DEMOLITION PLAN NOTES

- MD1 REMOVE AND DISCARD BOILER. DISCARD ASSOCIATED PIPING BAC TO WALL.
- MD2 REMOVE AND DISCARD EXISTING LOUVER. REUSE EXISTING LOUVE LOCATION.
- MD4 REMOVE AND DISCARD EXISTING PUMP, PAD, MOTOR STARTER ANI ASSOCIATED BRANCH PIPE.
- MD5 EXPANSION TANK, AIR AND DIRT SEPARATOR ARE TO BE REUSED. NEW ASSOCIATED PIPING TO EXISTING,
- MD6 REMOVE AND DISCARD EXISTING CONCENTRIC FLUE.
- MD7 REMOVE AND DISCARD EXISTING CENTRAL PLAN CONTROLS. GO B IN EXISTING LOCATION.
- MD8 CHILLED WATER MAINS ARE EXISTING TO REMAIN.
- MD9 GAS PIPING TO BE DEMOED FROM BOILER CONNECTION BACK TO MAIN 3" GAS LINE UPSTREAM OF THE REGULATOR. ALL OTHER ACCESSORIES INCLUDING PRESSURE SENSOR, SOLENOID VALVES ETC., TO BE REMOVED.



Project Information

Energy Code: Project Title: Location: Climate Zone: Project Type:

Construction Site: 816 Cimarron St Houston, TX 77015

Mechanical Systems List

Quantity System Type & Description 2 Plant 1: Heating: Hot Water Boiler, Capacity 999 kBtu/h, Gas

Mechanical Compliance Statement

Name - Title

		ELECTRICAL DEMOLITION GENERAL NOTES
	1.	SEE SHEET ME7.1 FOR ELECTRICAL DEMOLITION GENERAL NOTES APPLICABLE TO THE ENTIRE DRAWING SET.
		ELECTRICAL DEMOLITION PLAN NOTES
ж	ED1	EXISTING BOILER AND ASSOCIATED PUMPS AND CONTROLS TO BE REMOVED AND REPLACED. EXISTING CIRCUIT PROVIDING POWER TO BOILER TO REMAIN AND TO BE REUSED TO POWER TO NEW BOILER.
ER		VERIFY AND REMOVE AND REPLACE IF EXISTING CONDUIT AND WIRING IS NOT IN GOOD CONDITION.
D	ED2	EXISTING RECEPTACLES AND DEVICES IN THIS SPACE TO REMAIN IN PLACE AND OPERATIONAL.
TIE	ED3	EXISTING PUMP AND ASSOCIATED CONTROLS TO BE REMOVED AND REPLACED. EXISTING CIRCUIT PROVIDING POWER TO PUMP TO REMAIN AND TO BE REUSED TO POWER TO NEW PUMP. VERIFY AND REMOVE AND REPLACE IF EXISTING CONDUIT AND WIRING IS NOT IN GOOD CONDITION.
ACK	ED5	EXISTING PANEL TO REMAIN IN PLACE AND OPERATIONAL.
	ED6	EXISTING TRANSFORMER TO REMAIN IN PLACE AND OPERATIONAL.
THE	ED7	EXISTING DISCONNECTS AND WALL-MOUNTED TRANSFORMERS TO REMAIN IN PLACE AND OPERATIONAL.
5,	ED8	EXISTING PANEL LA TO REMAIN. EXISTING 150A MAIN BREAKER AT PANEL LA TO BE REMOVED AND REPLACED.

COMcheck Software Version 4.1.5.5

Mechanical Compliance Certificate

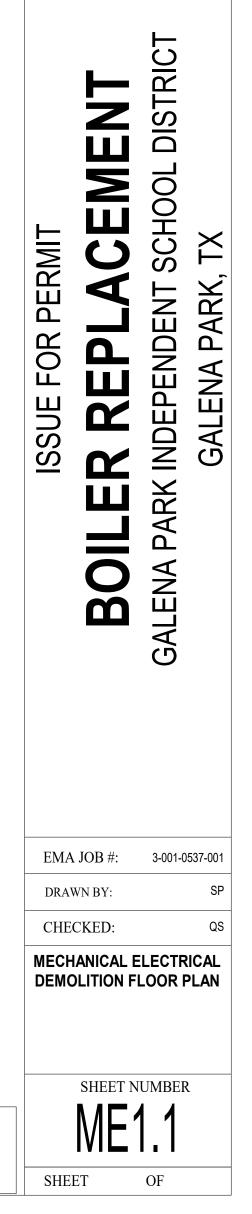
20	015 IECC
G	alena Park ISD - Cimarron ES Boiler Replacement
н	ouston, Texas
2	a
A	Iteration

Owner/Agent: GPISD

Designer/Contractor: shane parks EMA Houston, TX

Proposed Efficiency: 90.00 % Et, Required Efficiency: 80.00 % Et

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COM*check* version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist. Date



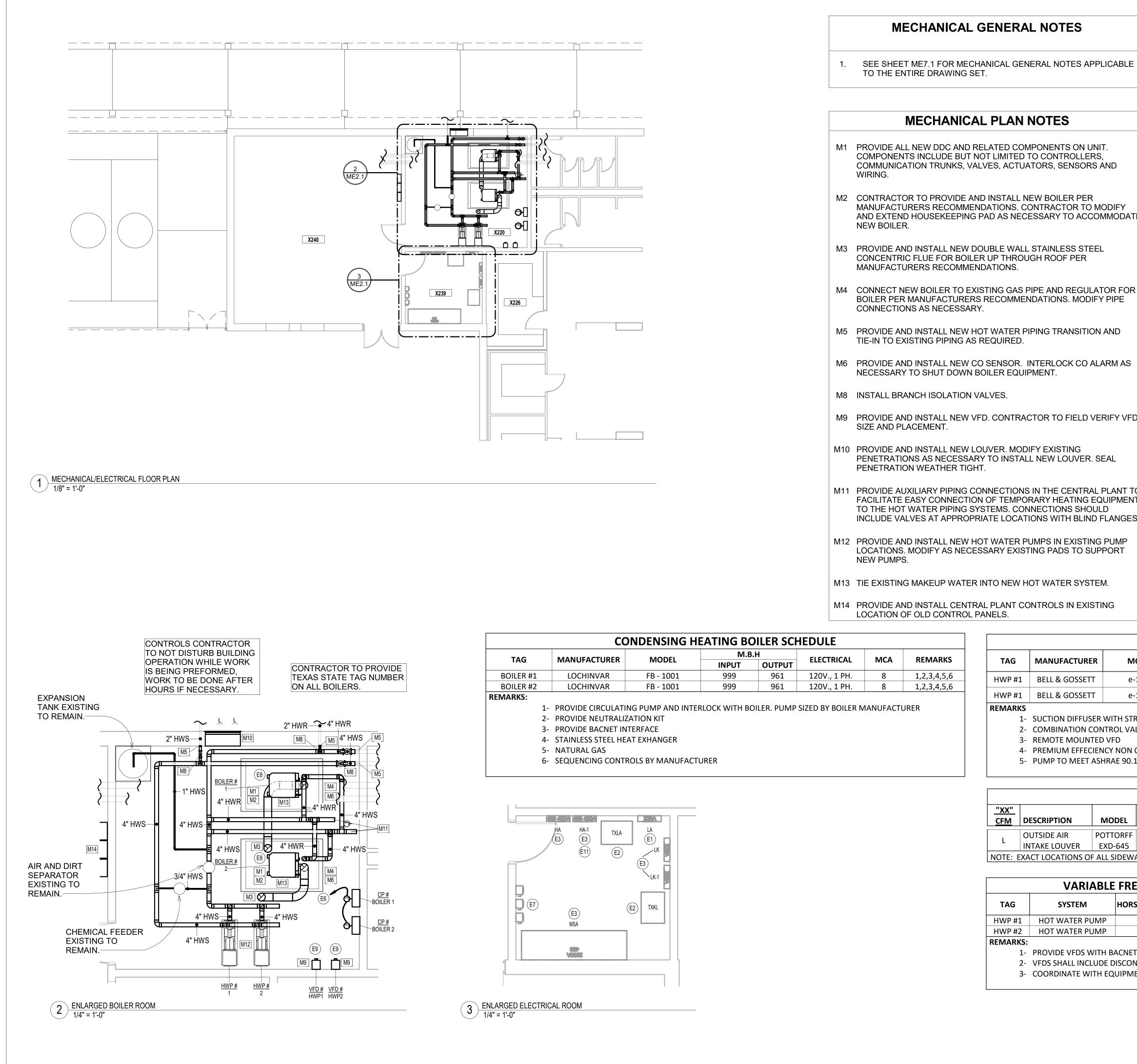


JAVIER GARCI/ 118760 **ISSUE DATE** 07-13-2022

REVISION

DATE

SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING SYSTEM.



	CO	NDENSING H	EATING BC	DILER SCH	EDULE			
		MODEL	M.B	.Н	FLECTRICAL	DACA.		
	MANUFACTURER	MODEL	INPUT	OUTPUT	ELECTRICAL	MCA	REMARKS	TAG
#1	LOCHINVAR	FB - 1001	999	961	120V., 1 PH.	8	1,2,3,4,5,6	HWP #1
#2	LOCHINVAR	FB - 1001	999	961	120V., 1 PH.	8	1,2,3,4,5,6	
				· · · · ·				HWP #1
1-	PROVIDE CIRCUII ATIN					ΙΔΝΙΙΕΔΟΤΙ	IRFR	REMARKS

HWP #1	BELL & GOSSETT	
HWP #1	BELL & GOSSETT	
REMARKS		
1-	SUCTION DIFFUSER	WITH S
2-	COMBINATION CON	ITROL
3-	REMOTE MOUNTED	VFD
4-	PREMIUM EFFECIEN	ICY NO
5-	PUMP TO MEET ASH	HRAE 9

				GRILLE	SCHEDULE
<u>"XX"</u>					
<u>CFM</u>	DESCRIPTION	MODEL	FINISH	NECK	REMARKS: PROVIDE
	OUTSIDE AIR	POTTORFF	BAKED	36"x36"	MOTORIZED DAMPER TO CLOSE WHEN UNIT IS OFF, FINISH
	INTAKE LOUVER	EXD-645	ENAMEL	50 X50	COLOR TO BE DETERMINED BY ARCHITECT/ OWNER.
NOTE:	EXACT LOCATIONS O	F ALL SIDEW	ALL GRILLE	S TO BE CO	OORDINATED WITH ARCHITECT.

VARIABLE FREQUENCY DRIVES (VFD)

TAG	SYSTEM	HORSEPOWER (HP)	MANUFACTURER	LOCATION
HWP #1	HOT WATER PUMP	5	ABB - ACH	MAIN MECH
HWP #2	HOT WATER PUMP	5	ABB - ACH	MAIN MECH
REMARKS:				
1-	PROVIDE VFDS WITH BA	ACNET INTERFACE CA	RD	
2-	VFDS SHALL INCLUDE D	ISCONNECT AND INT	ERNAL BYPASS	
3-	COORDINATE WITH EQ	UIPMENT MANUFAC	TURER ON SUBMITT	ED MOTOR SIZE

	ELECTRICAL GENERAL NOTES	EMA
ABLE	1. SEE SHEET ME7.1 FOR ELECTRICAL GENERAL NOTES APPLICABLE TO THE ENTIRE DRAWING SET.	DESIGN SOLVE ENHANCE
		EMA Engineering & Consulting, Inc. Tyler Austin Houston El Paso DFW San Antonio Shreveport
	ELECTRICAL PLAN NOTES	Texas Firm Registration No. F-893 Louisiana Firm Registration No. EF-5818 www.EMAengineer.com
D	E1 PROVIDE A NEW 3-POLE 175A MAIN BREAKER AT PANEL LA. ALL UNUSED BREAKERS ARE TO BE SWITCHED OFF AND MARKED AS "SPARE.	
	E2 EXISTING TRANSFORMER TO REMAIN.	JAVIER GARCIA
DIFY IODATE	E3 EXISTING PANEL TO REMAIN. ALL UNUSED BREAKERS ARE TO BE SWITCHED OFF AND MARKED AS "SPARE.	P. 118760 5 CENSEP. 614 SS/ONAL ENGLY
	E6 PROVIDE POWER TO CIRCUIT FOR BOILER CONTROL PANELS FROM AVAILABLE SPACE IN PANEL LA USING A 1-POLE 20A BREAKER WITH #12 WIRE. IF POSSIBLE, USE ANY AVAILABLE 20A SPARE IN PANEL LA.	07-13-2022 ISSUE DATE
	ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION AND ADDITIONAL INFORMATION.	07-13-2022
r for IPE	E7 EXISTING DISCONNECTS AND WALL-MOUNTED TRANSFORMERS TO REMAIN.	REVISION DATE
ND M AS	E8 PROVIDE POWER TO NEW CIRCULATION PUMP AND INTERNAL CONTROLS OF NEW BOILER USING EXISTING DEDICATED CIRCUIT OF DEMOLISHED BOILER. IF POSSIBLE, REUSE EXISTING CONDUIT AND WIRING. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION AND ADDITIONAL INFORMATION.	
FY VFD	E9 PROVIDE POWER TO NEW VFD USING EXISTING DEDICATED CIRCUIT OF DEMOLISHED PUMP. PROVIDE POWER TO NEW PUMP THRU NEW VFD USING EXISTING CONDUIT AND WIRING, IF POSSIBLE. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION AND ADDITIONAL INFORMATION.	
L	E11 PROVIDE AND INSTALL AN EXTERNAL 480V 3-POLE SPD AT PANEL HA-1 USING A 60A 3-POLE BREAKER WITH #4 WIRE.	
ANT TO PMENT		
NGES.		
JMP)RT		MENT OL DISTRICT
b		ERMIT ACEI VT SCHO K, TX
		Å ⊢ Å

	PUMP S	CHEDU	LE				
		PUMP		MO	TOR	FLECTRICAL	
MODEL	GPM	FT./HD	% EFF	HP	RPM	ELECTRICAL	REMARKS
e-1510	200	50	75	5	1800	460V., 3 PH.	1,2,3,4,5
e-1510	200	50	75	5	1800	460V., 3 PH.	1,2,3,4,5

I STRAINER

L VALVE (TRIPLE DUTY)

ON OVERLOADING TEFC MOTOR 90.1, MOTOR DEMAND OF NO MORE THAN 30% OF DESIGN WATTAGE AT 50% DESIGN WATER FLOW

SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING SYSTEM.



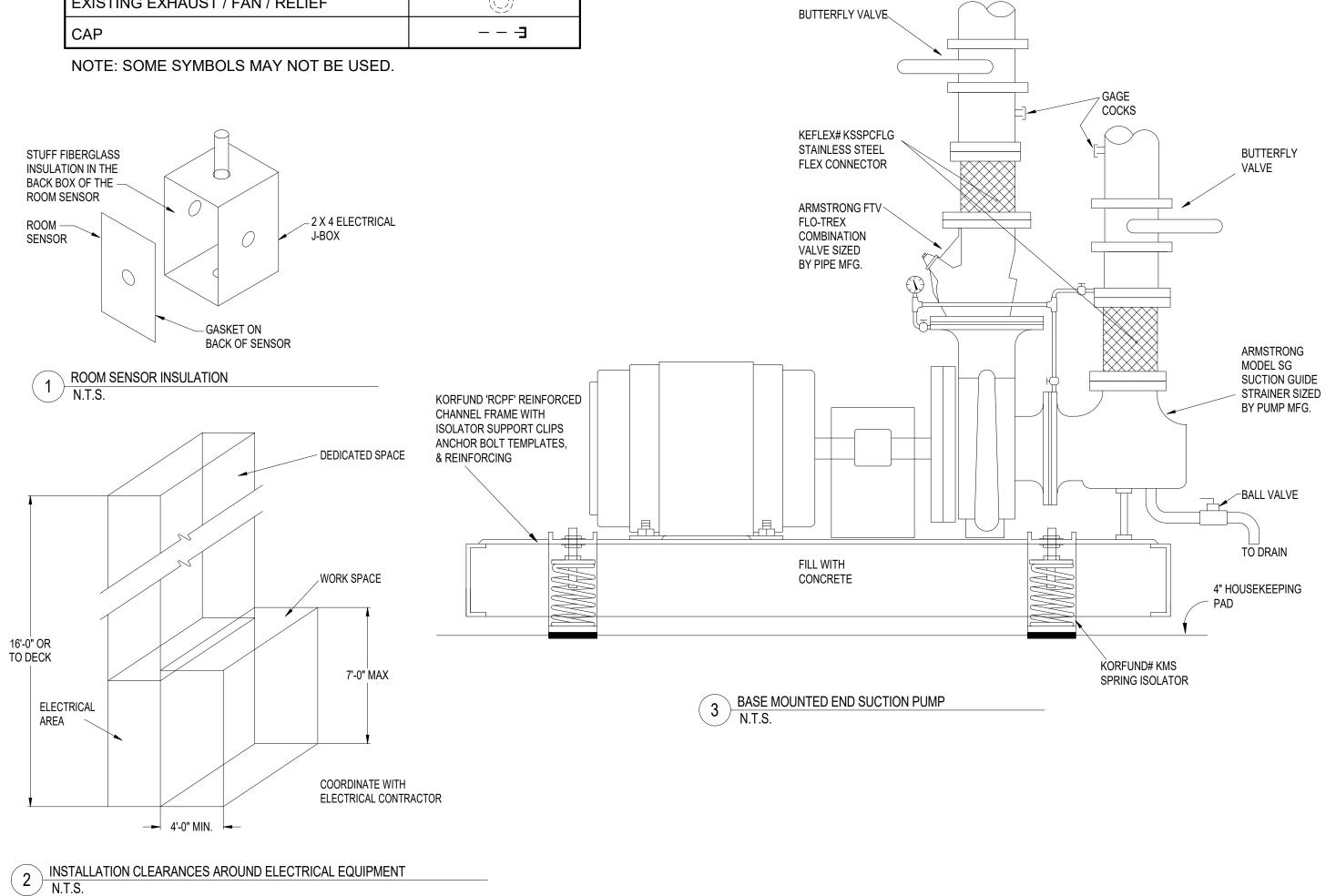
*I*E2.

OF

SHEET

	BRANCH CIRCUIT - CONDUIT IN WALL or ABOVE CEILING. INDICATES DEVICES AND EQUIPMENT ON A CIRCUIT. NOT INTEDED TO SHOW ROUTING.
	BRANCH CIRCUIT OR FEEDER CONDUIT UNDER FLOOR or UNDERGROUND.
	SWITCH WIRE - SWITCH CIRCUIT
<u> </u>	HOME RUN WITH CIRCUIT DESIGNATION(S) - LETTER DENOTES PANEL
	PANELBOARD or SWITCHGEAR (SEE PANEL SCHEDULES AND RISER DIAGRAM)
7	SPECIAL PANEL, EQUIPMENT RACK, CABINET, ETC SURFACE MOUNT; FLUSH MOUNT
TX	POWER TRANSFORMER - SEE PANEL SCHEDULE, RISER, AND SPECIFICATIONS.
	DISCONNECT / SAFETY SWITCH - SEE SCHEDULES FOR MORE INFORMATION.
-ii⊢; ∭D	GROUND ; WEATHERHEAD
• •	CONCRETE IN-GRADE PULL BOX / HAND HOLE - PROVIDE AS SHOWN OR AS REQUIRED.
-(); ()	JUNCTION BOX - @ 18" AFF OR AS NOTED ; FLUSH WALLS / FLUSH CEILING or FLOOR or ELSE.
\$;₽;0	RECEPTACLE @ 18" AFF OR AS NOTED - DUPLEX ; QUAD; SIMPLEX.
₿;₿	MULTI-POLE RECEPTACLE @ 18" AFF or AS NOTED ; NON-LINEAR TWISTLOCK MULTIPOLE @ 18" AFF or AS NOTED.
₿;₿	GFCI DUPLEX RECEPTACLE @ 6" ABOVE BACKSPLASH IF SHOWN ON MILLWORK or 18" AFF ; WEATHERPROOF GFCI.
6	DUPLEX RECEPTACLE W/ USB @ 6" ABOVE BACKSPLASH IF SHOWN AT MILLWORK or 18" AFF (LEVITON T5832 SERIES OR EQUIVALENT).
┢;ᆋ	NON-LINEAR RECEPTACLE @ 18" AFF or AS NOTED - DUPLEX ; QUAD.
	DUPLEX RECEPTACLE @ 6" ABOVE BACKSPLASH OR AS NOTED.
\odot	DUPLEX FLOOR W/ BRASS COVER PLATE & 3/4" C TO ACCESSIBLE ATTIC SPACE or AS NOTED.
2;4	FLOOR BOX - 2 GANG (RFB2/CFB2) W/1X DUPLEX; 4 GANG (RFB4/CFB4) W/2X DUPLEX. SEE SPECS FOR MORE INFO.
6;9	FLOOR BOX - 6 GANG (RFB6/CFB6) W/3X DUPLEX; 9-10 GANG (RFB9/CFB10) W/6X DUPLEX. SEE SPECS FOR MORE INFO.
() ;	FLOOR BOX - 11 GANG (RFB11) W/7X DUPLEX; CUSTOM FLOORBOX AS NOTED, SEE SPECS FOR MORE INFO.
\oplus	POKE-THRU FLOOR BOX - 3X RECEPTACLES & COMM. SEE SPECS FOR MORE INFO. WALKERBOX EVOLUTION 8AT or APPROVED EQUAL, OR AS NOTI
	POWER POLE - POWER & DATA
	PLUGMOLD WITH RECEPTACLES AT 12" OC
₿SR	SURFACE - MOUNT RACEWAY - SEE SPECIFICATIONS FOR MORE INFORMATION.
M;F;F;P	MOTOR - W / MOTOR SWITCH, OVERLOADS SQ.D. CLASS 2510, NEMA ENCL. (TYPE K) or AS NOTED. FINAL CONNECTION BY ELECTRICAL CONTRACTOR - MOTOR (GENERAL) ; EXHAUST FAN ; SUPPLY FAN ; PUMP.
\$	MOTOR TOGGLE SWITCH.
	DOOR HOLD BACK - PROVIDE POWER SHOWN TO LOW VOLTAGE TX TO SERVE DEVICE(S).
£	EMERGENCY POWER OFF (EPO) - SEE SPECIFICATIONS FOR MORE INFORMATION.
-W	BUZZER - EDWARDS #156G-6G1 OR APPROVED EQUAL AT 80" AFF.
₽; ¤FR	PUSH BUTTON - EDWARDS #695 OR APPROVED EQUAL AT 44" AFF ; SIGNAL TX ABOVE CEILING.
WH	WATER HEATER - SEE PLUMBING SCHEDULE FOR MORE INFORMATION.
PS	PLUMBING SENSORS - PROVIDE POWER SHOWN TO LOW VOLTAGE TX TO SERVE DEVICE(S).
Ø	DUPLEX RAISED FLOOR RECEPTACLE.
2. ACCES	SYMBOLS MAY NOT BE USED. SIBLE DEVICES HIGHEST OPERABLE PART TO BE 46" MAXIMUM/18" MINIMUM A.F.F REFER TO ARCHITECTURAL DRAWINGS. SIONS GIVEN A.F.F. ARE TO BOTTOM OF BOX.
0 ; 0	EMERGENCY RECEPTACLE (RED) - @6" ABOVE COUNTER ; @18" AFF
U ' U	
Ō	POWER GROUND MODULE WITH 4X DUPLEX RECEPTACLES AND 4X GROUNDING JACKS.

EXISTING MECHANICAL	SYMBOLS
EXISTING THERMOSTAT/SENSOR	$(\widehat{\mathbf{T}})$
CFM (CUBIT FT. PER MIN.)	
EXISTING RETURN AIR GRILLE	
EXISTING SUPPLY GRILLE	←[x=1 [x=1]]→
EXISTING DUCT	
EXISTING UNIT	
EXISTING EXHAUST / FAN / RELIEF	
САР	E



MECHANIC		S	
THERMOSTAT/SENSOR (PER SPEC.)	(1)
CO2 SENSOR		íc	2
HUMIDISTAT		(F	i)
THERMOSTAT/HUMIDIST	AT	π	À)
DUCT DETECTOR WITH	CONTROL RELAY	C)
CFM (CUBIC FT. PER MIN	l.)	###	\bigcirc
GRILLE TYPE		XX	\bigcirc
	RECTANGULAR	XX" >	« XX"
DUCT TYPE TAG DENOTATION	FLAT OVAL	XX"	/XX"
	ROUND	XX"Ø	
RETURN AIR GRILLE]
SUPPLY GRILLE		X	3
MANUAL VOLUME DAMP	ER		
BALANCING DAMPER*			
MOTORIZED DAMPER			
FIRE DAMPER/SMOKE	RECTANGULAR	FD	SFD
FIRE DAMPER	ROUND	FD	
САР			
SPIRAL DUCT		77///	7//
FLEX DUCT		a	
MEDIUM PRESSURE DUC	СТ		

NOTE: SOME SYMBOLS MAY NOT BE USED. *BALANCING DAMPER SHALL BE NAILER SERIES 1021 OR EQUAL FOR AIR BALANCING

ELECTRICAL GENERAL NOTES

(SOME NOTES MAY NOT BE USED)

- BRANCH CIRCUIT PROVIDE A SEPARATE NEUTRAL CONDUCTOR 1. FOR EACH CIRCUIT. MULTIPLE CIRCUITS SHALL NOT SHARE A COMMON NEUTRAL. NEUTRAL CONDUCTORS SHALL BE SIZED AS LARGE AS THE PHASE CONDUCTORS. NEUTRAL CONDUCTORS SHALL NOT BE OF A REDUCED SIZE.
- 2. CONDUIT WHERE POSSIBLE, ALL CONDUIT AND/OR CABLING SHALL BE INSTALLED BETWEEN THE BOTTOM AND TOP CHORD OF JOIST. WHERE NO CEILINGS ARE SCHEDULED, ALL CONDUIT SHALL BE UP AGAINST BOTTOM OF THE TOP CHORD. DO NOT SUPPORT OR REST CONDUITS ON BOTTOM CHORD OF THE JOISTS.
- CONDUIT ROUTE CONDUIT IN EXPOSED AREAS PERPENDICULAR 3. OR PARALLEL TO WALLS. ROUTE CONDUIT AS HIGH AS POSSIBLE AND ROUTE CONDUIT RUNS ADJACENT TO EACH OTHER. CONDUITS SHALL BE ORDERLY AND NEAT.
- DEVICES VERIFY ALL INSTALLATION HEIGHTS OF RECEPTACLES 4. WITH ARCHITECTURAL CASEWORK DETAILS BEFORE ROUGH-IN.
- 5. EQUIPMENT DURING THE SUBMITTAL PHASE, THIS CONTRACTOR SHALL SUBMIT LAYOUT OF ALL PANELS, SWITCHGEAR, TRANSFORMERS, CONTACTORS, ETC. IN EACH EQUIPMENT ROOM WHERE THIS EQUIPMENT IS LOCATED. ALL LAYOUTS MUST BE DRAWN TO SCALE AND DIMENSIONED.
- MECHANICAL EXACT MECHANICAL EQUIPMENT LOCATIONS AND 6. TYPE SHALL BE COORDINATED WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR. DO NOT INSTALL CONDUIT/CABLING WITHIN 3'-0" OF ANY HVAC UNIT UNLESS THE CONDUIT AND/OR CABLING SERVES THAT UNIT.
- MECHANICAL UNLESS OTHERWISE NOTED ON THE DRAWINGS 7 OR IN THE SPECIFICATIONS, PROVIDE A LISTED MANUAL MOTOR-CIRCUIT SWITCH AS A DISCONNECTING MEANS AT EACH MOTOR. FOR MOTORS SHOWN WITH "MS" PROVIDE A LISTED MANUAL MOTOR -CIRCUIT SWITCH WITH OVERLOAD PROTECTION AS A DISCONNECTING MEANS AT EACH MOTOR.
- CONDUIT COORDINATE CONDUIT ROOF PENETRATIONS WITH 8. MECHANICAL ROOF TOP UNITS AND/OR THRU HOODED PLUMBING PENETRATIONS TO CONDENSING UNITS.
- MECHANICAL REFER TO THE MECHANICAL SHEETS FOR ALL 9. SENSOR LOCATIONS (THERMOSTAT, HUMIDISTAT, CO2, etc.), DUCT DETECTORS, CONTROL RELAYS, MOTORIZED DAMPERS, SFDs, etc. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONDUIT, BACK BOXES AND LINE VOLTAGE WIRING TO SENSORS, DEVICES, etc. AS REQUIRED TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM. FOR MORE INFORMATION, REFER TO SPECIFICATIONS AND SENSOR INSTALLATION DETAIL.
- 10. MECHANICAL ALL VARIABLE FREQUENCY DRIVES (VFD's) ARE TO BE PROVIDED BY THE MECHANICAL CONTRACTOR, INSTALLED AND POWERED BY THE ELECTRICAL CONTRACTOR, AND CONTROLLED BY THE CONTROLS CONTRACTOR. THIS CONTRACTOR TO PROVIDE ALL NECESSARY POWER WIRING FROM PANEL TO VFDs AND FROM VFDs TO EACH MOTOR.
- 11. MECHANICAL FOR ALL UNITS WITH PLASMA AIR IONIZATION DEVICE. PROVIDE CONTROL WIRING AS REQUIRED BY MANUFACTURER FROM LOW VOLTAGE FAN CONTROL TERMINALS TO POWER INPUT TERMINALS ON IONIZATION DEVICE. PROVIDE STEP-DOWN TRANSFORMERS AS REQUIRED TO PROVIDE LOW VOTAGE POWER FROM UTILIZING THE CIRCUIT POWERING THE UNIT. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH MECHANICAL INSTALLER. LOCATE EACH TRANSFORMER IN A NEMA 3R ENCLOSURE MOUNTED AT THE UNIT.

ELECTRICAL DEMOLITION GENERAL NOTES

(SOME NOTES MAY NOT BE USED)

- UNLESS NOTED ON DRAWINGS, ALL LIGHTING, SWITCHES, OUTLETS AND OTHER ELECTRICAL
- DEVICES ARE TO REMAIN. REFER TO SPECIFICATION SECTION 26 05 11, ELECTRICAL DEMOLITION REMODELING, FOR
- GENERAL DEMOLITION REQUIREMENTS. ALL MATERIAL REMOVED AND NOT RETAINED BY THE OWNER SHALL BE DISPOSED OF OFF SITE
- IN A LAWFUL MANNER. BEFORE DEMOLISHING PANELS, TRACE ALL BRANCH CIRCUITS TO CONFIRM THAT EXISTING
- LOADS HAVE BEEN RELOCATED TO NEW PANELS. IF A LOAD EXISTS THAT HAS NOT BEEN RELOCATED TO NEW PANELS, CONTACT THE ENGINEER FOR INSTRUCTIONS.

	MECHANICAL DEMOLITION GENERAL NOTE
1.	CONTRACTOR TO VISIT SITE AND BE FAMILIAR WITH BUILDING MECHANICAL AND ELECTRICAL LAYOUTS.
2.	IF ASBESTOS IS FOUND CONTACT OWNER IMMEDIATELY. DO NO WORK IN ANY AREA SUSPECTED TO CONTAIN ASBESTOS.
3.	ALL EXISTING EQUIPMENT SHOWN IN APPROXIMATE LOCATION. FIELD VERIFY.
4.	DO NOT RELEASE ANY REFRIGERANT TO ATMOSPHERE. DISPOS OF IN A LAWFUL MANNER.
5.	ALL REUSED EXISTING MECHANICAL EQUIPMENT SHALL BE INSPECTED AND CLEANED FOR PROPER OPERATION. CHANGE A BELTS.
6.	PROVIDE AND INSTALL A FIRE DAMPER WHERE NEW DUCTWORI CROSSES AN EXISTING FIRE RATED WALL. IF ANY EXISTING DUCTWORK CROSSES A NEW FIRE RATED WALL A FIRE DAMPER TO BE PROVIDED AND INSTALLED.
7.	ALL MATERIAL, EQUIPMENT, DUCTS, PIPE, ETC. TO BE REMOVED SHALL BE DISPOSED OF OFF SITE IN A LEGAL AND LAWFUL MANNER.
8.	ALL EXISTING FIRE DAMPERS OR SMOKE DAMPERS BEING REUS SHALL REMAIN IN PLACE AND OPERATIONAL.
9.	REMOVE ONLY CEILING TILE NECESSARY TO ACCOMPLISH DEMOLITION AND NEW WORK, DUCT, ELECTRICAL, ETC. REPLAC ALL BROKEN TILES WITH NEW TILES TO MATCH EXISTING WHER REQUIRED. REUSE EXISTING TILES.
10.	CAP ANY UNUSED PIPE AT FLOOR, WALL, CEILING. REMOVE MATERIAL NOT BEING REUSED.
11.	WHERE REMOVING HVAC AND PIPING, PATCH ALL WALLS WITH S SHEET ROCK ON EACH SIDE OF WALL, PAINT TO MATCH.
12.	LEAVE ANY DOMESTIC WATER HEATER IN PLACE AND OPERATIONAL.
13.	
14.	LEAVE ALL GAS TO EXISTING RTU THAT HAVE GAS IN PLACE ANI OPERATIONAL UNLESS REPLACING UNIT.
15.	REMOVE ALL CONDENSATE DRAIN PIPING FROM UNITS THAT AR BE REPLACED. EACH ROOFTOP UNIT HAS CONDENSATE PIPING
16.	AIR HANDLER(S) BEING REINSTALLED MUST MAINTAIN FILTER ACCESS. COORDINATE FILTER ACCESS DOORS WITH STRUCTU PIPING, ETC.
1.	MECHANICAL GENERAL NOTES MECHANICAL CONTRACTOR TO PROVIDE TO THE PLUMBING
1.	CONTRACTOR TO PROVIDE TO THE PLOMBING CONTRACTOR THE RECOMMENDED AC MANUFACTURER'S DATA FOR CONDENSATE TRAPS PER EACH TYPE OF UNIT.
2.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OR ADJUSTMENT OF ALL HOLD DOWN BOLTS ON COMPRESSORS AT HVAC EQUIPMENT TO ALLOW FOR PROPER VIBRATION ISOLATION.
3.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL ABANDONED SCREWS, PIPING, TAPE, PAPERS PACKING PRODUCTS, ETC.
4.	ALL EQUIPMENT SHALL BE PROPERLY LABELED PER SPECIFICATIONS.
	CLOSE ALL OUTSIDE AIR DAMPERS UPON INSTALLATION AND KE ALL OUTSIDE AIR DAMPERS CLOSED UNTIL THE "TEST AND
5.	BALANCE" IS PERFORMED.
-	
5. 6. 7.	COORDINATE WITH THE PLUMBING CONTRACTOR LOCATION OF ALL SUPPLY FANS WITH PLUMBING VENTS. MAINTAIN 10'-0" MINIMUM SEPARATION. ALL VARIABLE FREQUENCY DRIVES (VFD'S) ARE TO BE PROVIDE
6. 7.	COORDINATE WITH THE PLUMBING CONTRACTOR LOCATION OF ALL SUPPLY FANS WITH PLUMBING VENTS. MAINTAIN 10'-0" MINIMUM SEPARATION. ALL VARIABLE FREQUENCY DRIVES (VFD'S) ARE TO BE PROVIDE BY THE MECHANICAL CONTRACTOR, INSTALLED AND POWERED THE ELECTRICAL CONTRACTOR, AND CONTROLLED BY THE
6. 7. 8.	COORDINATE WITH THE PLUMBING CONTRACTOR LOCATION OF ALL SUPPLY FANS WITH PLUMBING VENTS. MAINTAIN 10'-0" MINIMUM SEPARATION. ALL VARIABLE FREQUENCY DRIVES (VFD'S) ARE TO BE PROVIDE BY THE MECHANICAL CONTRACTOR, INSTALLED AND POWERED THE ELECTRICAL CONTRACTOR, AND CONTROLLED BY THE CONTROL CONTRACTOR.
6.	COORDINATE WITH THE PLUMBING CONTRACTOR LOCATION OF ALL SUPPLY FANS WITH PLUMBING VENTS. MAINTAIN 10'-0" MINIMUM SEPARATION. ALL VARIABLE FREQUENCY DRIVES (VFD'S) ARE TO BE PROVIDE BY THE MECHANICAL CONTRACTOR, INSTALLED AND POWERED THE ELECTRICAL CONTRACTOR, AND CONTROLLED BY THE CONTROL CONTRACTOR. INSTALL PETE'S PLUG BOTH SIDES OF BALANCING VALVES.
6. 7. 8. 9.	COORDINATE WITH THE PLUMBING CONTRACTOR LOCATION OF ALL SUPPLY FANS WITH PLUMBING VENTS. MAINTAIN 10'-0" MINIMUM SEPARATION. ALL VARIABLE FREQUENCY DRIVES (VFD'S) ARE TO BE PROVIDE BY THE MECHANICAL CONTRACTOR, INSTALLED AND POWERED THE ELECTRICAL CONTRACTOR, AND CONTROLLED BY THE CONTROL CONTRACTOR. INSTALL PETE'S PLUG BOTH SIDES OF BALANCING VALVES. INSTALL PETE'S PLUG BOTH SIDES OF BALANCING VALVES. INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS OF SYSTEM. INSTALL AIR SEPARATOR AS WHERE SHOWN WITH ISOLATION

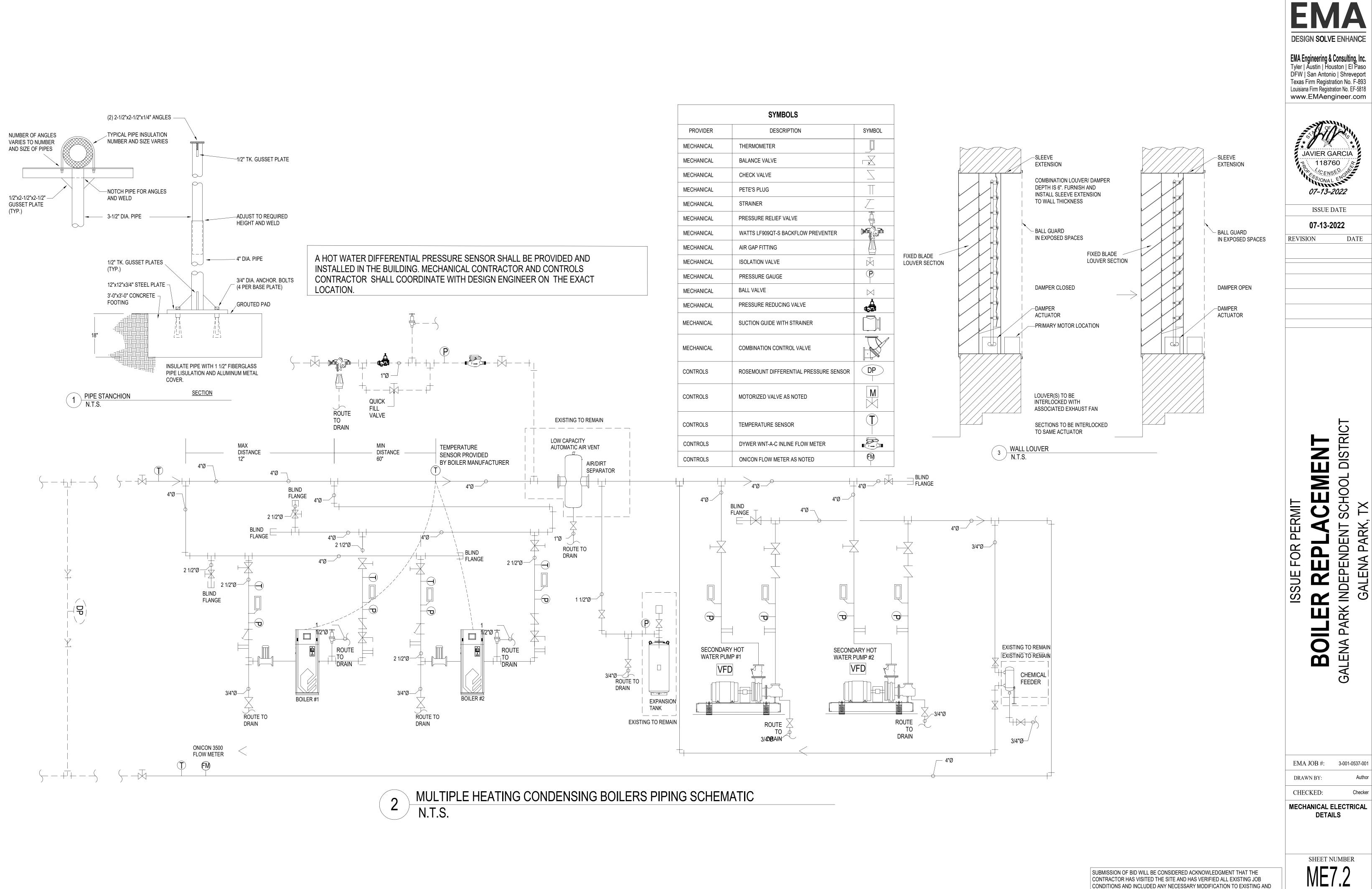
SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING SYSTEM.

EISUE DATE 07-13-2022 REVISION DATE			
ISSUE FOR PERMIT	BOILER REPLACEMENT	GALENA PARK INDEPENDENT SCHOOL DISTRICT	GALENA PARK, TX
DRA' CHE MECH	A JOB #: WN BY: CKED: IANICAL E ILS, GENE & SYMB		

SHEET NUMBER

OF

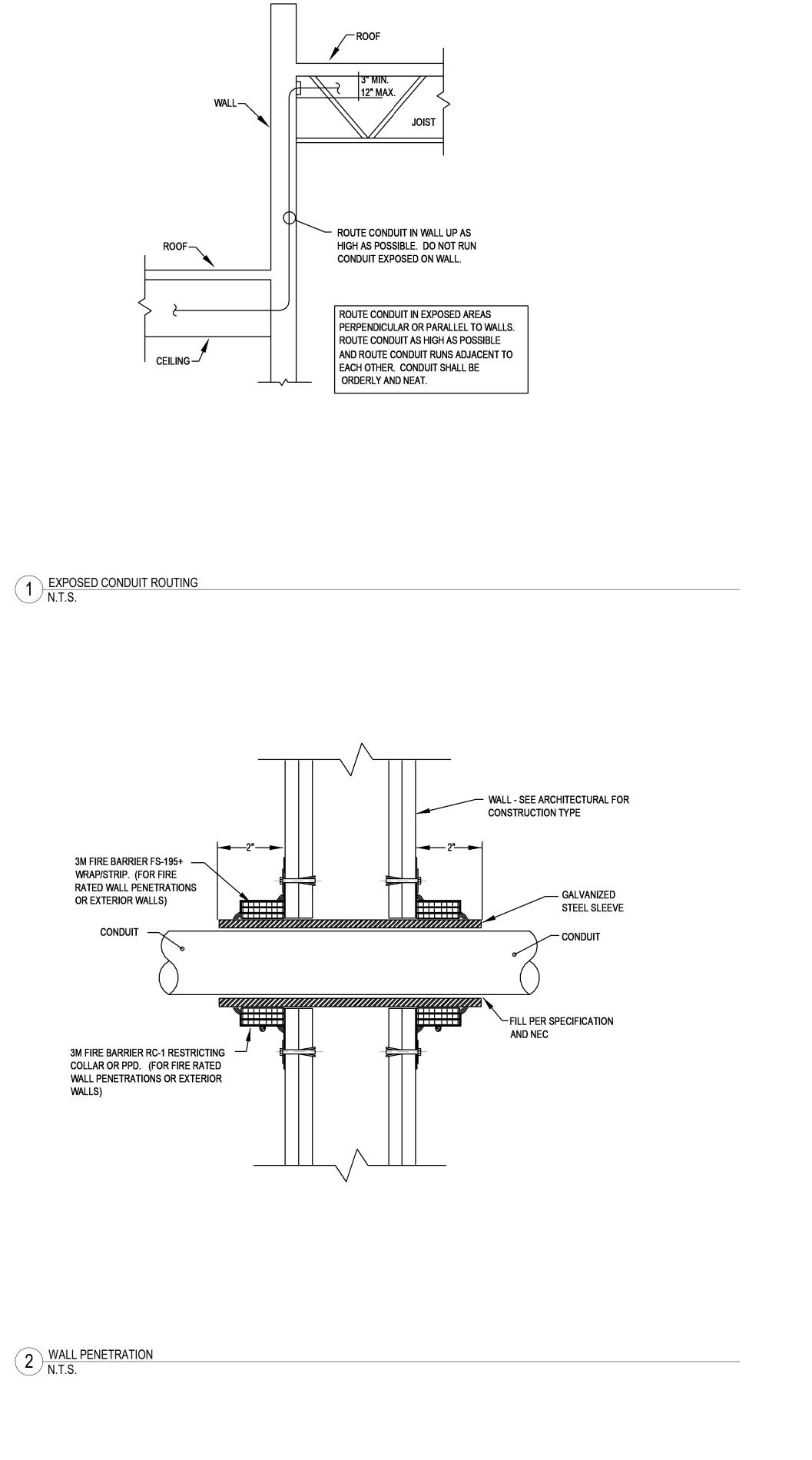
SHEET

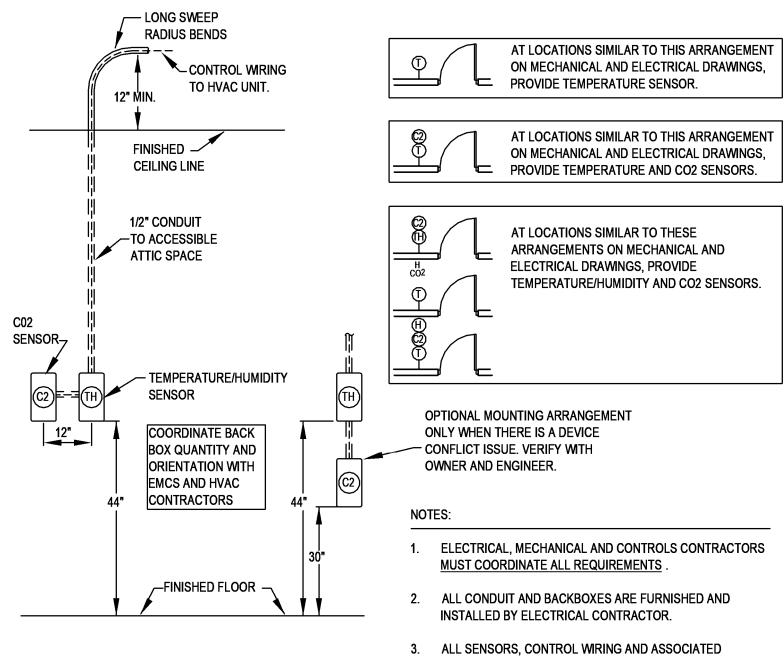


CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING

SYSTEM.

SHEET OF

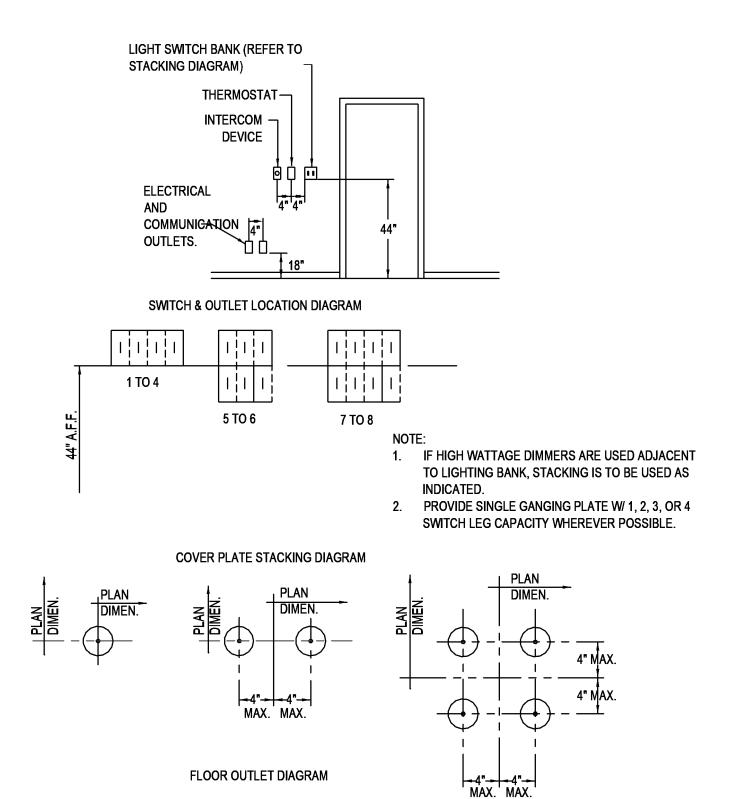




DEVICES ARE FURNISHED AND INSTALLED BY CONTROLS CONTRACTOR.

3 SENSOR MOUNTING DETAIL N.T.S.

5 CONDUIT SUPPORT N.T.S.



4 OUTLET DIAGRAM N.T.S.

