



Green Activities Partial Renovation
Vincennes, IN 47591
Project #: 71GA-22-01

ADDENDUM - 002

Addendum - 002 to the Drawings and Specifications dated, February 2023, for Vincennes University **Green Activities Partial Renovations**, located on the Main Campus, Vincennes, IN 47591, as prepared by Andrew Young, Campus Architect, Vincennes University.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original Documents. All Contractors shall acknowledge on their bid form that they have received this Addendum and included the appropriate content of same within their bid proposal.

Miscellaneous:

1. Existing Roof Warranty

- A. Refer to attached Roof Warranty, for information regarding roofing system and warranty.

Specifications:

1. 01 23 00 – Alternates

- A. To clarify, Alternate No. 5: Fire Sprinkler Main & System includes:
 - a. Installation of underground 8" fire sprinkler main & P.I.V.;
 - b. Installation of underground 6" fire sprinkler main & FDC;
 - c. Installation of underground electrical conduit & fire alarm wiring to FDC;
 - d. Installation of interior fire sprinkler system;
 - e. Installation of floor sink, underslab sanitary drain piping, & cleanouts; and
 - f. Water jetting & camera inspections – both interior & exterior.

2. 14 42 16 – Vertical Wheelchair Lifts

- a. Provide standard size, 36"x54"
- b. Provide standard rocker switch platform control
- c. Provide automatic gate open/close option
- d. Provide upper landing gate electric strike interlock option



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3. 23 05 00 – Common Work Results for HVAC

- A. Add Section 3.3, F, to read as follows:
 - a. All compressors shall be variable-speed.

Drawings:

1. Sheet #AD02.0

- A. Refer to attached Sheet #AD02.0.

2. Sheet #M5 – Roof Level MEP Plan

- A. Refer to attached Sheet #M5-REV.

3. Sheet #M6 – Mechanical Schedules

- A. Refer to attached Sheet #M6-REV.

4. Sheet #M7 – Mechanical Details 1

- A. Refer to attached Sheet #M7-REV.

5. Sheet #M8 – Mechanical Details 2

- A. Refer to attached Sheet #M8-REV.

6. Sheet #E2 – Electrical Lighting Plan

- A. Refer to attached Sheet #E2-REV.

7. Sheet #E4 – Electrical Power/Systems Plan

- A. Refer to attached Sheet #E4-REV.

8. Sheet #P2 – Plumbing Plan

- A. Refer to attached Sheet #P2-REV.

9. Sheet #FP2 – Fire Protection Site Utility Plan

- A. Refer to attached Sheet #FP2-REV.



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Attachments:

- Existing Roof Warranty.
 - 8.5" x 11" Sheet AD02.0.
 - 30" x 42" Sheet M5.
 - 30" x 42" Sheet M6.
 - 30" x 42" Sheet M7.
 - 30" x 42" Sheet M8.
 - 30" x 42" Sheet E2.
 - 30" x 42" Sheet E4.
 - 30" x 42" Sheet P2.
 - 30" x 42" Sheet FP2.
-

CARLISLE GOLDEN SEAL TOTAL ROOFING SYSTEM WARRANTY

SERIAL NO. 10121937

930

DATE OF ISSUE: September 02, 2015

BUILDING OWNER: VINCENNES UNIVERSITY
NAME OF BUILDING: VINCENNES UNIVERSITY ROBERT E. GREEN ACTIVITIES CENTER
BUILDING ADDRESS: 1002 N. 1ST STREET, VINCENNES, IN
DATE OF COMPLETION OF THE CARLISLE TOTAL ROOFING SYSTEM: 08/31/2015
DATE OF ACCEPTANCE BY CARLISLE: 09/02/2015

(EB Warranty)

CMD1170523

Carlisle Roofing Systems, Inc., (Carlisle) warrants to the Building Owner (Owner) of the above described building, that; subject to the terms, conditions, and limitations stated in this warranty, Carlisle will repair any leak in the Carlisle Golden Seal™ Total Roofing System (Carlisle Total Roofing System) installed by a Carlisle Authorized Roofing applicator for a period of 20 years commencing with the date of Carlisle's acceptance of the Carlisle Total Roofing System installation. However, in no event shall Carlisle's obligations extend beyond 20.5 years subsequent to the date of substantial completion of the Carlisle Total Roofing System. See below for exact date of warranty expiration.

The Carlisle Total Roofing System is defined as the following Carlisle brand materials: Membrane, Flashings, Adhesives and Sealants, Insulation, Cover Boards, Fasteners, Fastener Plates, Fastening Bars, Metal Work, Insulation Adhesives, and any other Carlisle brand products utilized in this installation.

TERMS, CONDITIONS, LIMITATIONS

- Owner shall provide Carlisle with written notice via letter, fax or email within thirty (30) days of the discovery of any leak in the Carlisle Total Roofing System. Owner should send written notice of a leak to Carlisle's Warranty Services Department at the address set forth at the bottom of this warranty. By so notifying Carlisle, the Owner authorizes Carlisle or its designee to investigate the cause of the leak. Should the investigation reveal the cause of the leak to be outside the scope of this Warranty, investigation and repair costs for this service shall be paid by the Owner.
- If, upon inspection, Carlisle determines that the leak is caused by a defect in the Carlisle Total Roofing System's materials, or workmanship of the Carlisle Authorized Roofing Applicator in installing the same, Owner's remedies and Carlisle's liability shall be limited to Carlisle's repair of the leak.
- This warranty shall not be applicable if, upon Carlisle's inspection, Carlisle determines that any of the following has occurred:
 - The Carlisle Total Roofing System is damaged by natural disasters, including, but not limited to, lightning, fire, insect infestations, earthquake, tornado, hail, hurricanes, and winds of (3 second) peak gust speeds of fifty-five mph or higher measured at 10 meters above ground; or
 - Loss of integrity of the building envelope and, or structure including, but not limited to partial or complete loss of roof decking, wall siding, windows, doors or other envelope components or from roof damage by wind-blown objects, or;
 - The Carlisle Total Roofing System is damaged by any intentional or negligent acts, accidents, misuse, abuse, vandalism, civil disobedience, or the like.
 - Deterioration or failure of building components, including, but not limited to, the roof substrate, walls, mortar, HVAC units, non-Carlisle brand metal work, etc., occurs and causes a leak, or otherwise damages the Carlisle Total Roofing System; or
 - Acids, oils, harmful chemicals and the like come in contact with the Carlisle Total Roofing System and cause a leak, or otherwise damage the Carlisle Total Roofing System.
 - The Carlisle Total Roofing System encounters leaks or is otherwise damaged by condensation resulting from any condition within the building that may generate moisture.
- This Warranty shall be null and void if any of the following shall occur:
 - If, after installation of the Carlisle Total Roofing System by a Carlisle Authorized Roofing Applicator there are any alterations or repairs made on or through the roof or objects such as, but not limited to, structures, fixtures, solar panels, wind turbines, roof gardens or utilities are placed upon or attached to the roof without first obtaining written authorization from Carlisle; or
 - Failure by the Owner to use reasonable care in maintaining the roof, said maintenance to include, but not be limited to, those items listed on Carlisle's Care & Maintenance Information sheet which accompanies this Warranty.
- Only Carlisle brand insulation products are covered by this warranty. Carlisle specifically disclaims liability, under any theory of law, for damages sustained by or caused by non-Carlisle brand insulation products.
- During the term of this Warranty, Carlisle shall have free access to the roof during regular business hours.
- Carlisle shall have no obligation under this Warranty while any bills for installation, supplies, service, and warranty charges have not been paid in full to the Carlisle Authorized Roofing Applicator, Carlisle, or material suppliers.
- Carlisle's failure at any time to enforce any of the terms or conditions stated herein shall not be construed to be a waiver of such provision.
- Carlisle shall not be responsible for the cleanliness or discoloration of the Carlisle Total Roofing System caused by environmental conditions including, but not limited to, dirt, pollutants, or biological agents.
- Carlisle shall have no liability under any theory of law for any claims, repairs, restoration, or other damages including, but not limited to, consequential or incidental damages relating, directly or indirectly, to the presence of any irritants, contaminants, vapors, fumes, molds, fungi, bacteria, spores, mycotoxins, or the like in the building or in the air, land, or water serving the building.
- This Warranty shall be transferable upon a change in ownership of the building when the owner has completed certain procedures including a transfer fee and an inspection of the Roofing System by a Carlisle representative.

CARLISLE DOES NOT WARRANT PRODUCTS UTILIZED IN THIS INSTALLATION WHICH IT HAS NOT FURNISHED; AND SPECIFICALLY DISCLAIMS LIABILITY, UNDER ANY THEORY OF LAW, ARISING OUT OF THE INSTALLATION AND PERFORMANCE OF, OR DAMAGES SUSTAINED BY OR CAUSED BY, PRODUCTS NOT FURNISHED BY CARLISLE OR THE PRIOR EXISTING ROOFING MATERIAL OVER WHICH THE CARLISLE ROOFING SYSTEM HAS BEEN INSTALLED

THE REMEDIES STATED HEREIN ARE THE SOLE AND EXCLUSIVE REMEDIES FOR FAILURE OF THE CARLISLE TOTAL ROOFING SYSTEM OR ITS COMPONENTS. THERE ARE NO WARRANTIES EITHER EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, WHICH EXTEND BEYOND THE FACE HEREOF. CARLISLE SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR DAMAGE TO THE BUILDING OR ITS CONTENTS UNDER ANY THEORY OF LAW.

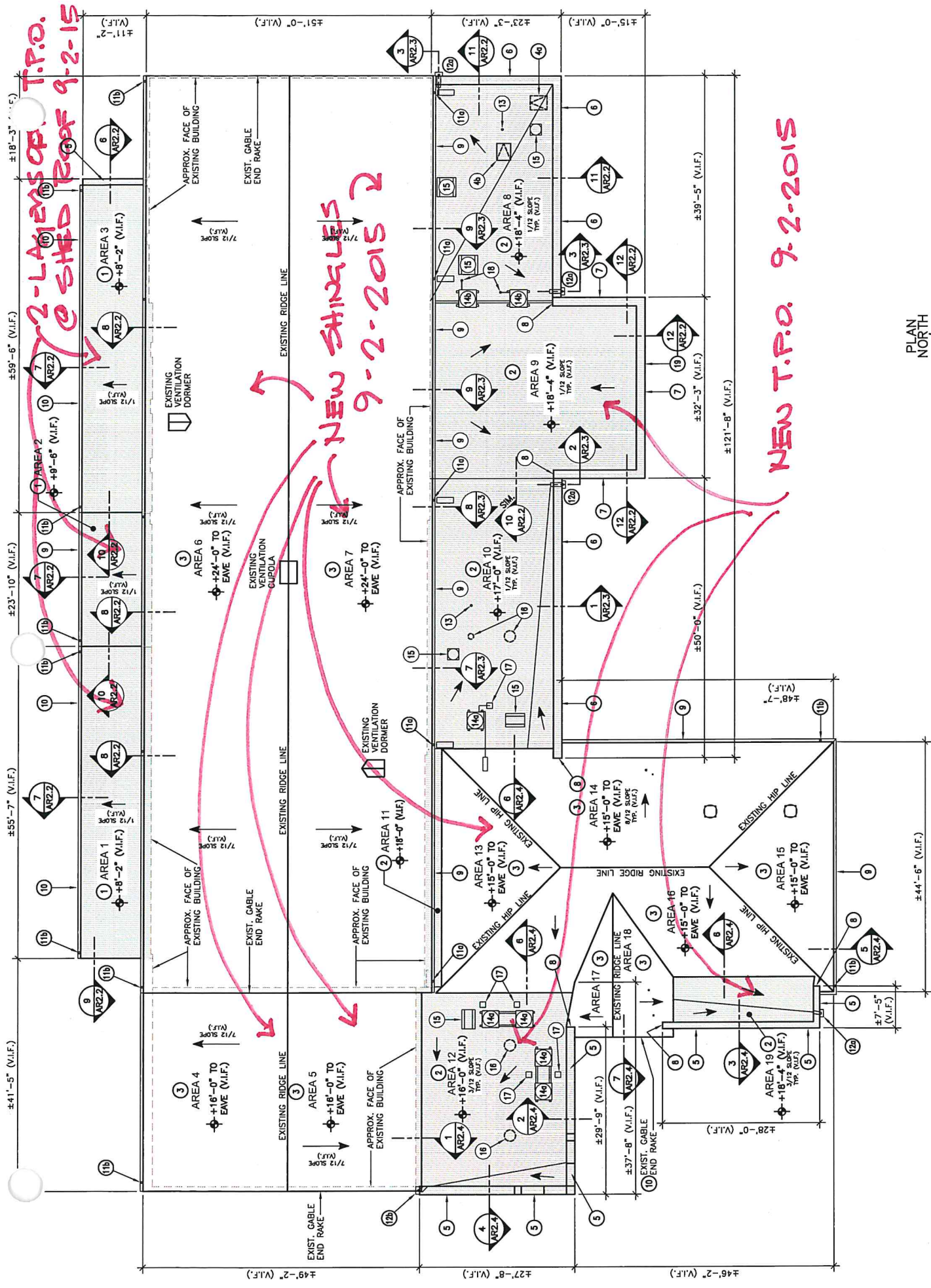
BY: Robert H. McNeill
AUTHORIZED SIGNATURE
TITLE: Director, Technical and Warranty Services



This Warranty Expires: September 01, 2035

P.O. Box 7000 Carlisle, PA 17013 Phone: 800.233.0551 Fax: 717.245.7121 www.carlisesyntec.com

WA-F0001 (1/15)



ROBERT E. GREEN ACTIVITIES CENTER ROOF PLAN

1 SCALE: 3/8" = 1'-0"

ACCESSORIES SCHEDULE

1	SOAP DISPENSER, PROVIDED BY OWNER, INSTALLED BY GC
2	TOILET TISSUE DISPENSER, PROVIDED BY OWNER, INSTALLED BY GC
3	SANITARY NAPKIN DISPOSAL
4	42" ADA GRAB BAR
5	18" VERTICAL ADA GRAB BAR
6	36" ADA GRAB BAR
7	ELECTRIC HAND DRYER, PROVIDE 24"x36" STAINLESS STEEL WALL PROTECTION PLATE BELOW DRYER
8	50"x40" WALL MIRROR
9	24"x72" FULL LENGTH MIRROR
10	64"x40" WALL MIRROR

REVISED MIRROR SIZES IN NOTES #8 & #10

REF. SHEET A1.1

Drawn By: JGW

Checked By: AWY

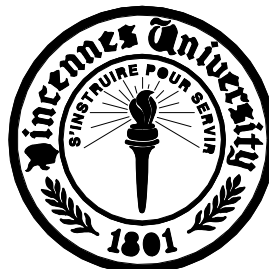
PARTIAL RENOVATIONS

AD02.0

Proj #: 71GA-22-01

VINCENNES CAMPUS

#	Date	Desc
2	02-16-23	AD 02



VINCENNES UNIVERSITY
ARCHITECTURAL SERVICES
AND FACILITIES

817 N. SECOND STREET
VINCENNES, INDIANA 47591
P: 812.888.4323 F:812.888.2220
ARCHITECT: ANDREW YOUNG

SCHEDULE OF MAKE-UP AIR UNIT																																						
MARK	MANUFACTURER	MODEL	AIR FLOW (GPM)	SUPPLY MOTOR (HP)	SUPPLY E.S.P. (IN)	EXHAUST (GPM)	EXHAUST MOTOR (HP)	EXHAUST E.S.P. (IN)	RECR. (GPM)	EER	ENTHALPY RECOVERY (%)	SUMMER					WINTER					TOTAL CAPACITY (BTU/Hr)	SENSIBLE CAPACITY (BTU/Hr)	COOLING PERFORMANCE				RH TOTAL CAPACITY (BTU/Hr)	RH LVG AIR TEMPERATURE (°F)	HEATING CAPACITY (BTU/Hr)	GPM	PRESSURE DROP		HEATING PERFORMANCE		ELECTRICAL DATA		REMARKS
												OA	SA	RA	EA	CAPACITY REDUCTION	OA	SA	RA	CAPACITY REDUCTION	ENTR AIR TEMPERATURE (°F)			LVG AIR TEMPERATURE (°F)	ENTR WATER TEMPERATURE (°F)	LVG WATER TEMPERATURE (°F)	ENTR AIR TEMPERATURE (°F)					LEAVING AIR TEMPERATURE (°F)	VOLTAGE	MCA (A)				
MU-1	VALENT	VXE-352-1D-501-3-J2	16,000	(3) @ 7.5	2.0	5,000	(2) @ 1	1.0	11,000	15.5	80.5 %	9578	7898	7592	9275	247,590	-10/-11	5747	7256	360,180	546,000	402,200	76/64	53/52	276,800	69.1	809,900	83 GPM	9.0	180.0	180.0	67	114	208V, 3-PH	282.4	③②②③③③		

NOTES: 1. DESIGNED FOR 90°F F SUMMER, -10°F WINTER
2. ALL FANS TO BE EQUIPPED WITH VFD'S
3. MODULATING INVERTER SCROLL COMPRESSOR
4. TRANSITION CURSE FOR HORIZONTAL DISCHARGE NOT ACCEPTABLE
5. BACKET INTERFASE W/ LCD READOUT.

SCHEDULE OF AIR HANDLING UNITS																				
MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	E.S.P. (IN)	HP	COOLING 2					LIQUID TEMP	SUPERHEAT	COIL VELOCITY	COIL PRESSURE	COIL ROWS/ PANS/ GROUPS	REHEAT COIL		MCA (A)	VOLTAGE	REMARKS
						TOTAL CAPACITY (BTUHR)	SENSIBLE CAPACITY (BTUHR)	COMPRESSORS STAGING	SS1	TOTAL CAPACITY (BTUHR)						WATER FLOW (GPM)				
AHU-1	KRIEGER	BC130	2,000	1.0	1	86,100	99,000	(2)	43	110.0	10	411	0.35	65K	--	--	16	120V, 1-PH	2 @	KITCHEN

NOTES: 1. HORIZONTAL INSTALLATION. EQUIP W/ STAINLESS STEEL DRAIN PAN, DIRECT DRIVE E C FAN, DX COOLING COIL, 0-10 DC FAN SPEED CONTROL, MERV 8 FILTER, FOIL-FACED ENC/APSULATED INSULATION, CONDENSATE OVERFLOW FLOAT SWITCH.
2. AT 95/69/77°F ENTERING AIR TEMPERATURE.

SCHEDULE OF ROOF TOP UNITS																
MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	E.S.P. (IN)	HP	COOLING 2					EER	MCA (A)	HOT WATER HEATING INPUT (MBTUHR)	VOLTAGE	REMARKS	
						TOTAL CAPACITY (BTUHR)	SENSIBLE CAPACITY (BTUHR)	COMPRESSORS STAGING	LVG AIR TEMPERATURE (°F)							
RTU-1	VALENT	VX-12-100-0-J1	3,360	1.5	2-13	128,100	91,400	(1)	54,654.5	11.3	56.9	—	208V, 3-PH	(1) @ (2) @ (3) @		
RTU-2	VALENT	VX-12-50-0-J1	1,600	0.6	1	66,100	48,200	(1)	54,654.5	—	24.4	—	208V, 3-PH	(1) @ (2) @ (3) @		
RTU-3	VALENT	VX-12-41-0-G1	1,425	0.6	3/4	52,100	38,100	(1)	54,554.5	—	18.6	—	208V, 3-PH	(1) @ (2) @ (3) @		
RTU-4	VALENT	VX-12-41-0-G1	1,425	0.6	3/4	52,100	38,100	(1)	54,554.5	—	18.6	—	208V, 3-PH	(1) @ (2) @ (3) @		
RTU-5	VALENT	VX-12-41-0-G1	1,425	0.6	3/4	52,100	38,100	(1)	54,554.5	—	18.6	—	208V, 3-PH	(1) @ (2) @ (3) @		

NOTES: 1. MODULATING INVERTER SCROLL COMPRESSOR, ENTHALPY ECONOMIZER, BAROMETRIC RELIEF W/ LOW LEAKAGE DAMPERS, MODULATING O.A. DAMPER, ECM EVAPORATOR FAN, VFD DRIVE SUPPLY FAN, SEISMIC CURB.
2. AT 95/69/77°F ENTERING AIR TEMPERATURE.
3. ROOF MOUNT INSTALLATION W/ SEISMIC CURB, 4 WAY SPREAD FAN, MODULATING O.A. DAMPER, ECONOMIZER, ECM EVAP. FAN, 1-STAGE COOLING/ HW HEATING, LOW LEAKAGE DAMPERS, ENHANCED DEHUMIDIFICATION
4. TRANSITION CURSES FOR HORIZONTAL DISCHARGE NOT ACCEPTABLE
5. BACKET INTERFASE W/ LCD READOUT.

SCHEDULE OF OUTDOOR HEAT PUMP UNITS									
MARK	MANUFACTURER	MODEL	CAPACITY (BTUHR)		POWER INPUT			MCA (A)	REMARKS
			COOLING	HEATING	COOLING (KW)	HEATING (KW)	VOLTAGE		
HP-1	LG	LUL240HHV	30,000	33,000	3	3.8	208V, 1-PH	22	(3) @ CONTROLS ROOM

NOTES: 1. PROVIDE HAL GUARDS, ROOF MOUNT FRAME W/ SEISMIC ANCHORS, REMOTE CONTROLLER, AHU COMMUNICATIONS KIT FOR RA.
2. PROVIDE FOR LOW AMBIENT COOLING OPERATION TO VFD.

SCHEDULE OF CONDENSING UNITS								
MARK	MANUFACTURER	MODEL	COOLING CAPACITY TOTAL (BTU/HRT)	POWER INPUT			REMARKS	
				COOLING (KW)	VOLTAGE	MCA (A)		
CU-1	LG	ARUM068TES	96,000	5.3	208V, 3-PH	28.5	KITCHEN	

NOTES: 1. PROVIDE HAL GUARDS, ROOF MOUNT FRAME W/ SEISMIC ANCHORS, REMOTE CONTROLLER, AHU COMMUNICATIONS KIT FOR RA.

SCHEDULE OF FAN COIL UNITS									
MARK	MANUFACTURER	MODEL	CAPACITY (BTUHR)		POWER INPUT			MCA (A)	REMARKS
			COOLING	HEATING	COOLING (KW)	HEATING (KW)	VOLTAGE		
FC-1	LG	LCN249HV	30,000	33,000	—	—	208V, 1-PH	—	(3) CONTROLS ROOM

NOTES: 1. PROVIDE W/ INTEGRAL CONDENSATE PUMP WITH PIPING TO FLOOR DRAIN.

SCHEDULE OF VAV BOXES											
MARK	MANUFACTURER	MODEL	SIZE	MAX CFM	MIN CFM	E.S.P. (IN)	TOTAL CAPACITY (BTUHR)	ENTR AIR TEMPERATURE (°F)	HEATING ENTER WATER TEMPERATURE (°F)	LVG WATER TEMPERATURE (°F)	WATER FLOW (GPM)
VAV-1	KRIEGER	LMHS	12	1,800	208	0.4	26,000	55	160	127.9	1.7
VAV-2	KRIEGER	LMHS	10	1,200	145	0.4	17,600	55	160	120	1.3
VAV-3	KRIEGER	LMHS	06	400	52	0.4	7,100	55	160	139.7	0.7

NOTES: 1. EQUIP W/ BACNET INTERFACE TO BMS.

SCHEDULE OF HOT WATER COILS											
MARK	MANUFACTURER	MODEL	WATER INLET TEMP (°F)	WATER OUTLET TEMP (°F)	GPM	AIR PRESSURE DROP (PT)	AIR FLOW (CFM)	ENTERING DRY BULB TEMP (°F)	LEAVING DRY BULB TEMP (°F)	TOTAL HEATING CAPACITY (MBH)	REMARKS
HWC-1	AEROFIN	18.0 X 18.0	180.0	160.0	7.0	0.27	1,800	60.0	96.0	60,100	
HWC-2	AEROFIN	18.0 X 18.0	180.0	160.0	6.0	0.27	1,450	60.0	96.0	54,800	
HWC-3	AEROFIN	18.0 X 14.0	180.0	160.0	6.0	0.27	1,450	60.0	96.0	54,800	
HWC-4	AEROFIN	18.0 X 18.0	180.0	160.0	6.0	0.27	1,450	60.0	96.0	54,800	
HWC-5	AEROFIN	18.0 X 18.0	180.0	160.0	7.0	0.21	1,800	60.0	96.0	60,500	

SCHEDULE OF CABINET HEATERS							
MARK	MANUFACTURER	MODEL	SIZE	HEATING CAPACITY (BTUHR)	POWER (WATTS)	VOLTAGE	FULL-LOAD AMPS
CH-1	QMARK	DWH150P	—	5,115	1,500	120V, 1-PH	12.5

SCHEDULE OF FANS									
MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	RPM	BHP	SOUND (SCHELS)	E.S.P. (IN)	VOLTAGE	REMARKS
EF-1	GREENHECK	B50 180-7	3,000	1,260	.74	14.5	.25	208V, 3-PH	(3) MECHANICAL ROOM

NOTES: 1. FURNISH W/ OSHA APPROVED HOUSING, VIBRATION HANGERS, BIRDSCREEN AT FAN INLET & AT LOUVERS.

SCHEDULE OF DIFFUSERS & GRILLES											
Mark	MANUFACTURER	MODEL	INLET DIM. SIZE	NOMINAL SIZE	AIR FLOW (CFM)	AIR THROW (FT)	ARI PRESSURE DROP (IN W.C.)	SOUND (FC)	MOUNTING	REMARKS	
S1	PRICE	SMD	18" x 18"	24" x 24"	967	12-24	0.036	<15	LAY-IN	(3)	
S2	PRICE	SMD	18" x 18"	24" x 24"	967	12-24	0.036	<15	PLCT		
S3	PRICE	SMD	15" x 15"	24" x 24"	660	10-21	0.036	<15	LAY-IN	(3)	
S4	PRICE	SMD	15" x 15"	24" x 24"	475	10-21	0.036	<15	LAY-IN	(3)	
S5	PRICE	S2DZ	12" x 6"	32" x 6"	468	13-40	0.014	<15	WALL	(3)	
S6	PRICE	SMD	15" x 15"	24" x 24"	408	10-21	0.036	<15	LAY-IN	(3)	
S7	PRICE	SMD	12" x 12"	18" x 18"	300	8-18	0.036	<15	LAY-IN	(3)	
S8	PRICE	S2DZ	12" x 6"	22" x 6"	200	8-18	0.014	<15	DUCT		
S9	PRICE	SMD	6" x 6"	10" x 6"	200	8-18	0.065	<15	LAY-IN	(3)	
S10	PRICE	SMD	6" x 6"	10" x 10"	180	8-18	0.065	<15	LAY-IN	(3)	
S11	PRICE	S2DZ	12" x 6"	12" x 6"	180	7-24	0.008	<15	WALL		
S13	PRICE	SMD	6" x 6"	10" x 10"	180	8-18	0.036	<15	SURFACE	(3)	
S14	PRICE	SMD	6" x 6"	12" x 12"	80	4-12	0.036	<15	LAY-IN		
S15	PRICE	SMD	6" x 6"	12" x 12"	80	4-12	0.036	<15	LAY-IN		
S1	PRICE	SE	60" x 56"	60" x 56"	8000	—	—	<15	WALL	(3)	
S2	PRICE	SE	24" x 24"	24" x 48"	3000	—	—	<15	LAY-IN		
S3	PRICE	SE	24" x 24"	24" x 24"	1600	—	—	<15	WALL		
S4	PRICE	SE	24" x 24"	28" x 24"	1600	—	—	<15	WALL		
S5	PRICE	SE	24" x 24"	24" x 24"	1400	—	—	<15	LAY-IN		
S6	PRICE	SE	12" x 12"	12" x 12"	150	—	—	<15	LAY-IN		
S7	PRICE	SE	12" x 12"	12" x 12"	125	—	—	<15	LAY-IN		
S8	PRICE	SE	24" x 24"	24" x 24"	75	—	—	<15	SURFACE		
S9	PRICE	SE	24" x 24"	24" x 24"	75	—	—	<15	LAY-IN		
DS	PRICE	ATGH	24" x 24"	24" x 24"	900	—	0.024	24	DOOR		
TG-1	PRICE	SE	—	—	0	—	0.027	<15	WALL		

NOTES: 1. PROVIDE OPPOSED-BLADE VOLUME DAMPER AT EACH SUPPLY DIFFUSER.
2. PROVIDE FOR BLACK GRILLE IN COLOR. DUCTWORK INSIDE GRILLE SHALL BE PAINTED BLACK TO REDUCE REFLECTIONS.

STEAM PRV VALVES SCHEDULE

MARK	MANUFACTURER	MODEL	CV	INLET PRESSURE (PSIG)	OUTLET PRESSURE (PSIG)	LNHR	REMARKS
PRV-1	ARMSTRONG	GP2000-1	10.9	75	15	1872	
PRV-2	ARMSTRONG	GP2000-1-12	16.8	75	15	2864	

STEAM RELIEF VALVE SCHEDULE

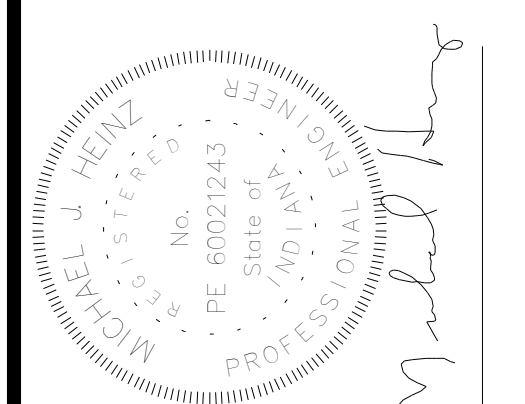
MARK	MANUFACTURER	MODEL	INLET SIZE (IN)	OUTLET SIZE (IN)	OUTLET PRESSURE (PSIG)	LNHR	REMARKS
STEAM RELIEF	ARMSTRONG	6010-J4	2"	2-1/2"	25	2750	

STEAM TRAP SCHEDULE

Mark	MANUFACTURER	MODEL	CAPACITY (LBNR)	OUTLET SIZE (IN)	OPERATING PRESSURE (PSIG)	REMARKS
ST-1	ARMSTRONG	FAT B8	8,000	2"	15	
ST-2	ARMSTRONG	811	400	3/4"	15	

STEAM CONDENSATE PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	GPM	OUTLET PRESSURE (PSIG)	HP	STORAGE (GAL)	REMARKS
CP-1	FABTEK	—	—	8	12	20	



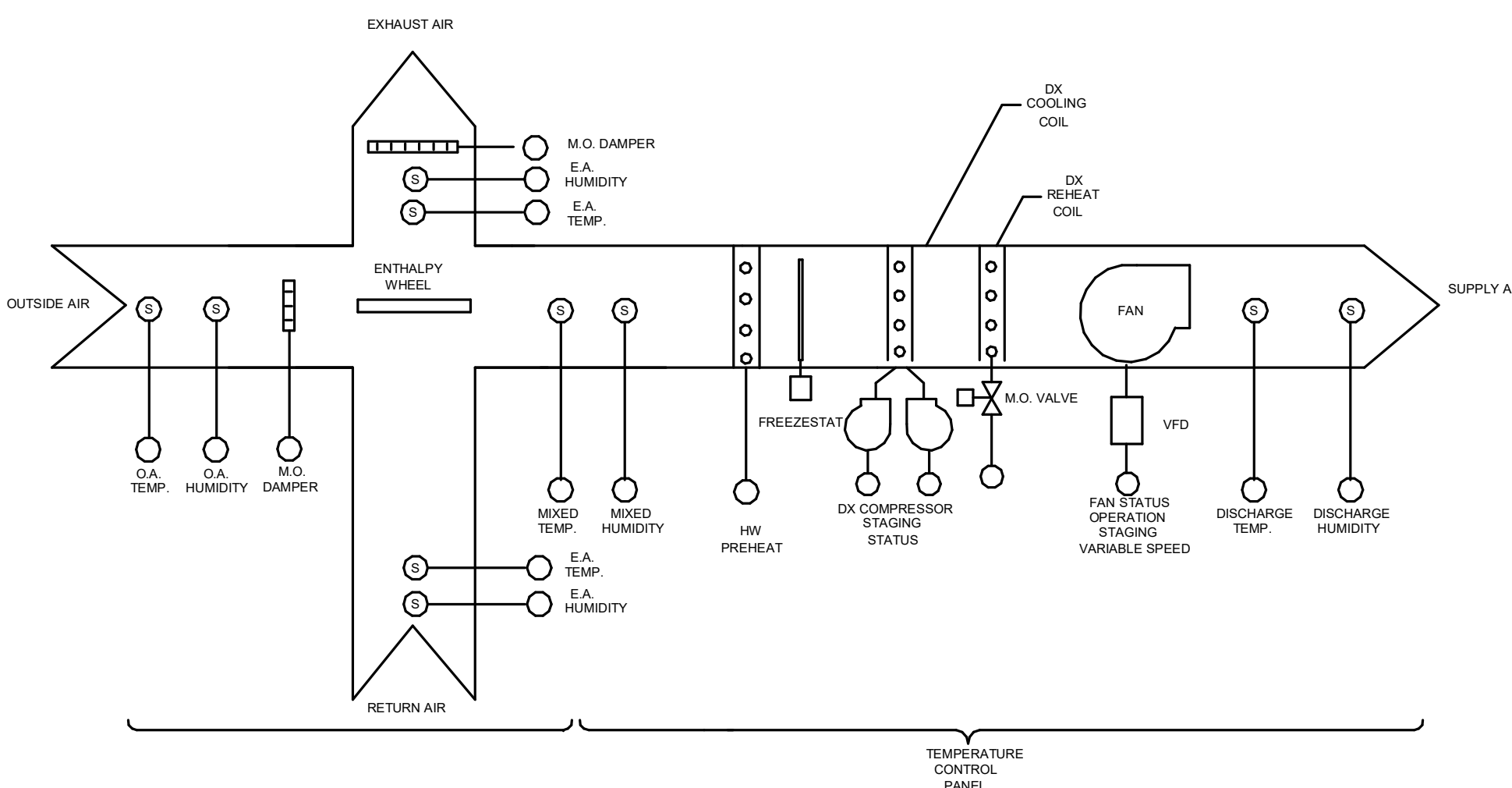
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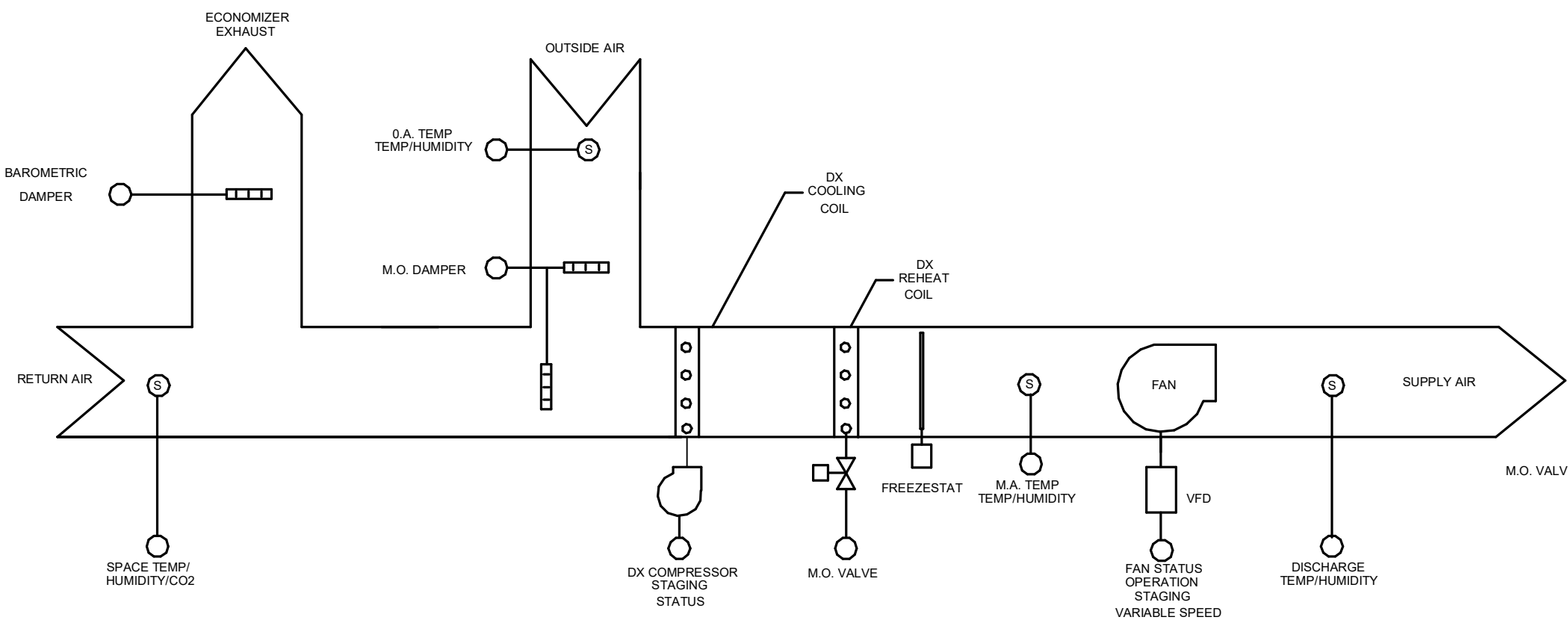
CONSULTANT:

HEINZ ASSOCIATES, LLC
ARCHITECTURE + ENGINEERING
3252 W. 500 N.
TERRE HAUTE, IN 47787
(812) 334-9336
www.heinzassociates.net

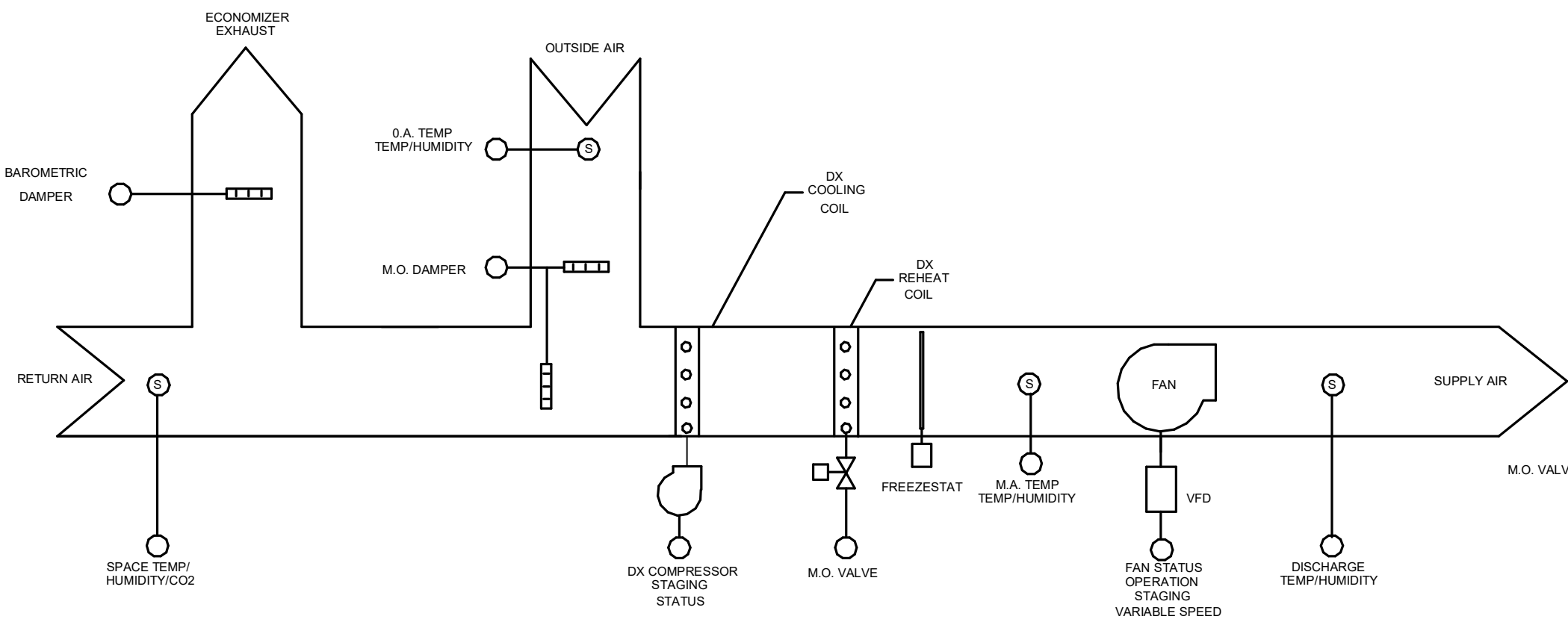
GREEN ACTIVITIES CENTER
PARTIAL REN



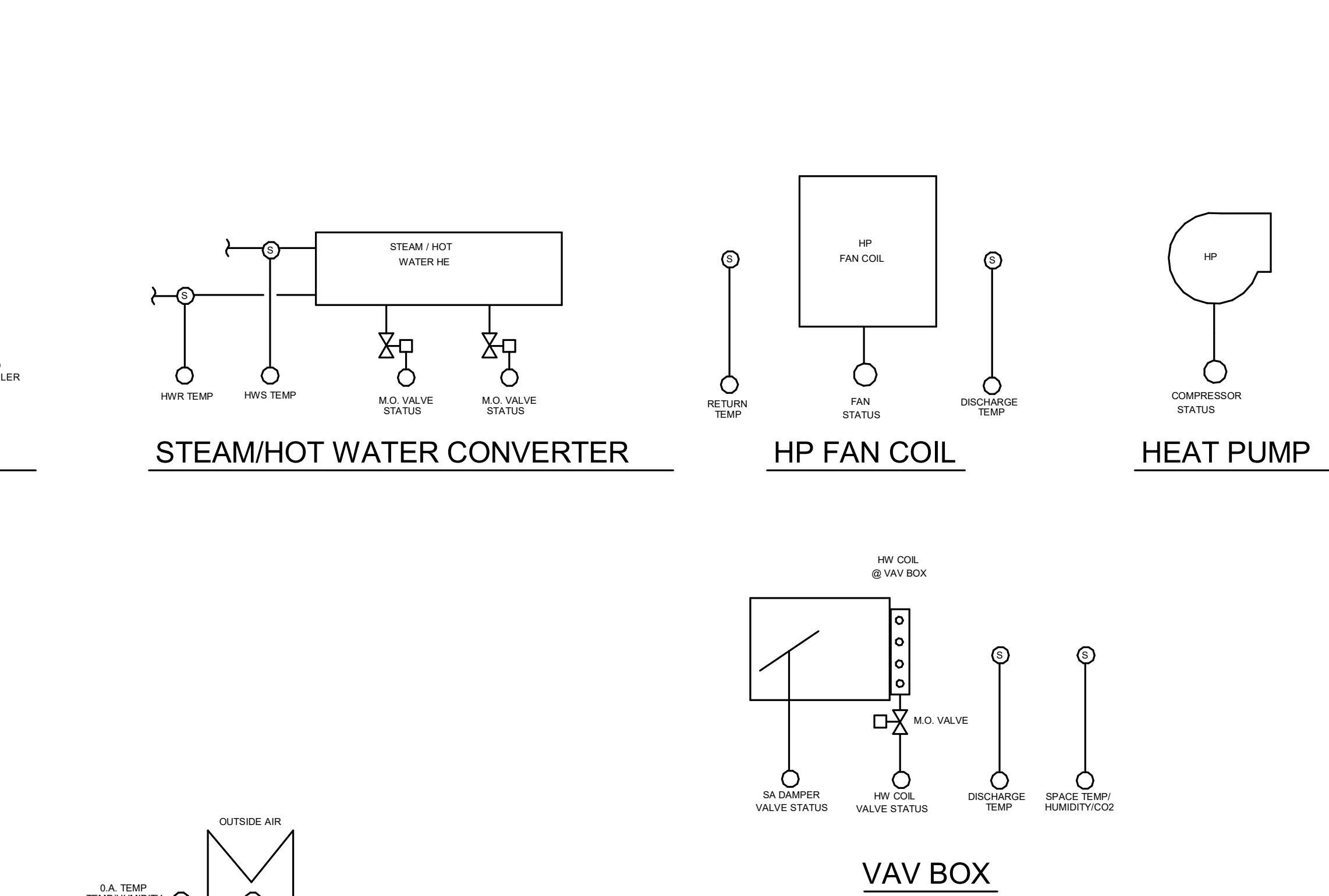
MU CONTROL DIAGRAM (VARIABLE SPEED)



SINGLE ZONE RTU-1 CONTROL DIAGRAM (VARIABLE SPEED)



SINGLE ZONE RTU-2 CONTROL DIAGRAM (VARIABLE SPEED)

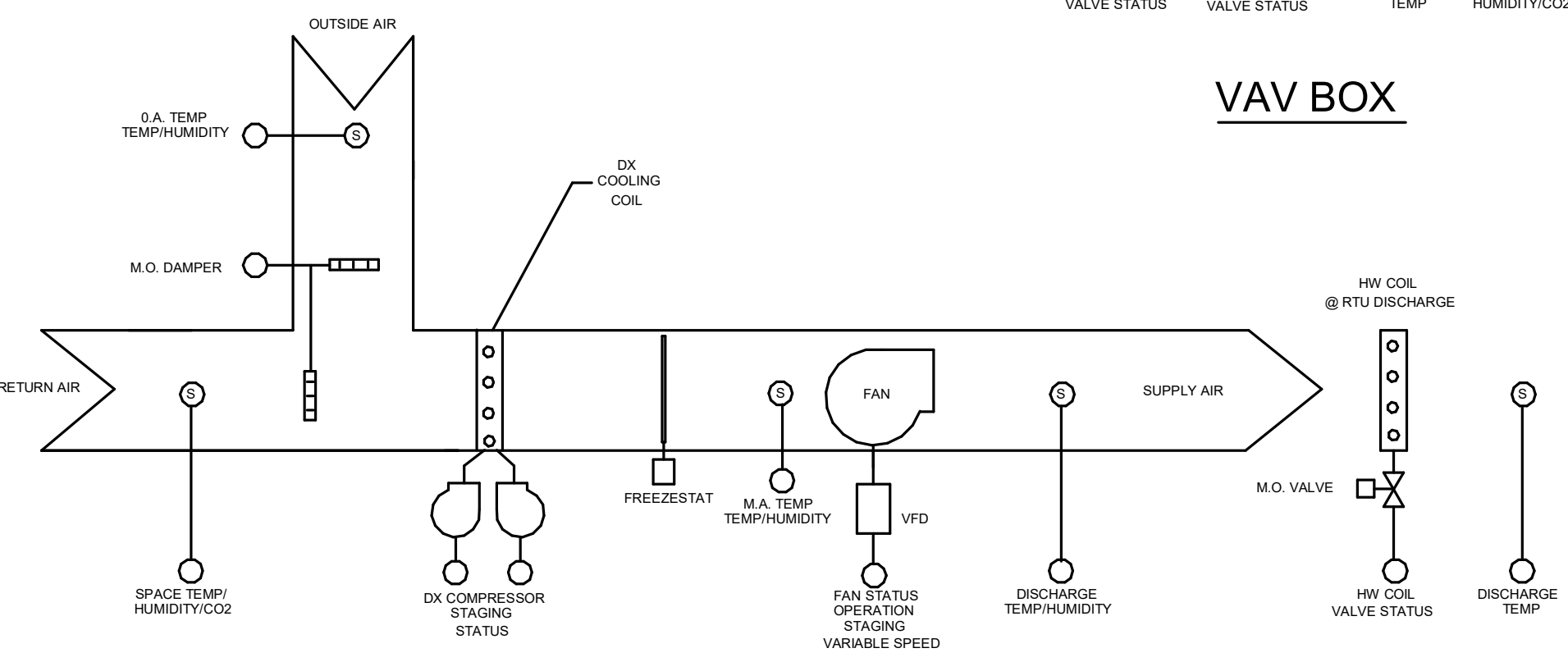


TYPICAL PUMP

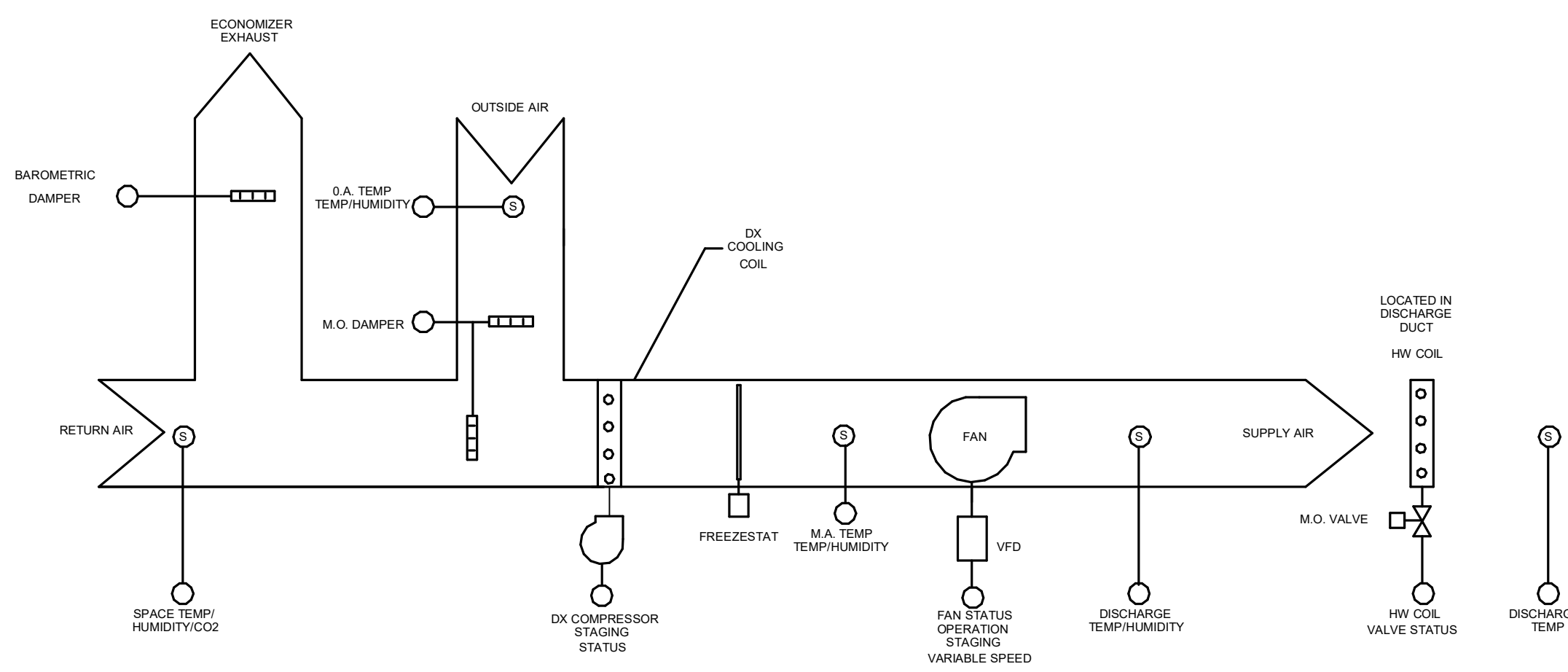
STEAM/HOT WATER CONVERTER

HP FAN COIL

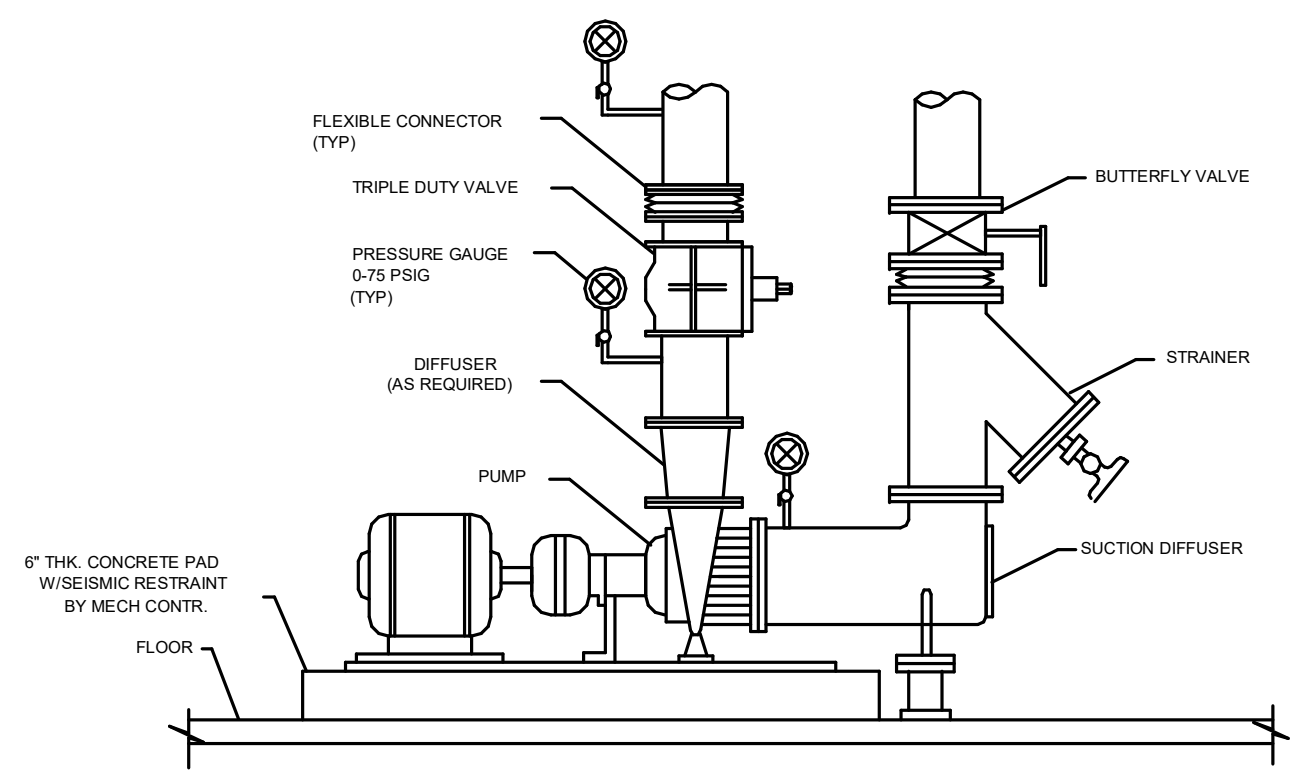
HEAT PUMP



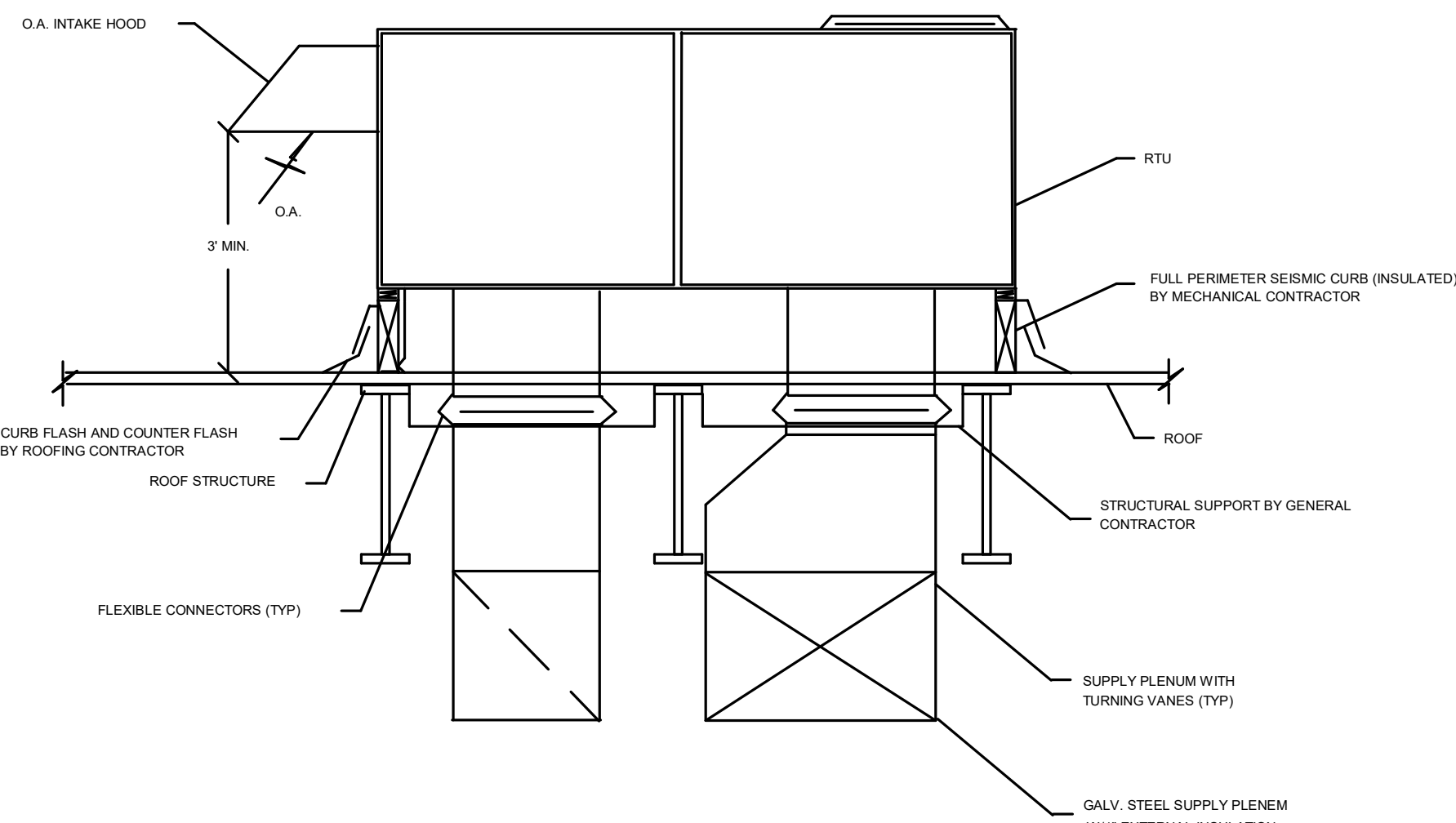
SINGLE ZONE AHU-1 CONTROL DIAGRAM (VARIABLE SPEED)



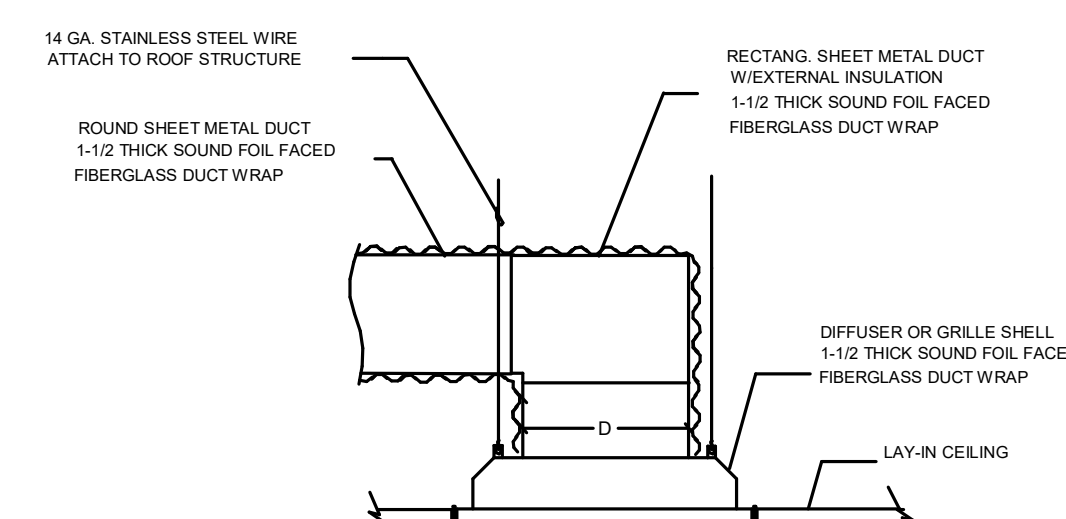
SINGLE ZONE RTU-3,4,5 CONTROL DIAGRAM (VARIABLE SPEED)



BASE-MOUNTED PUMP DETAIL (TYP)

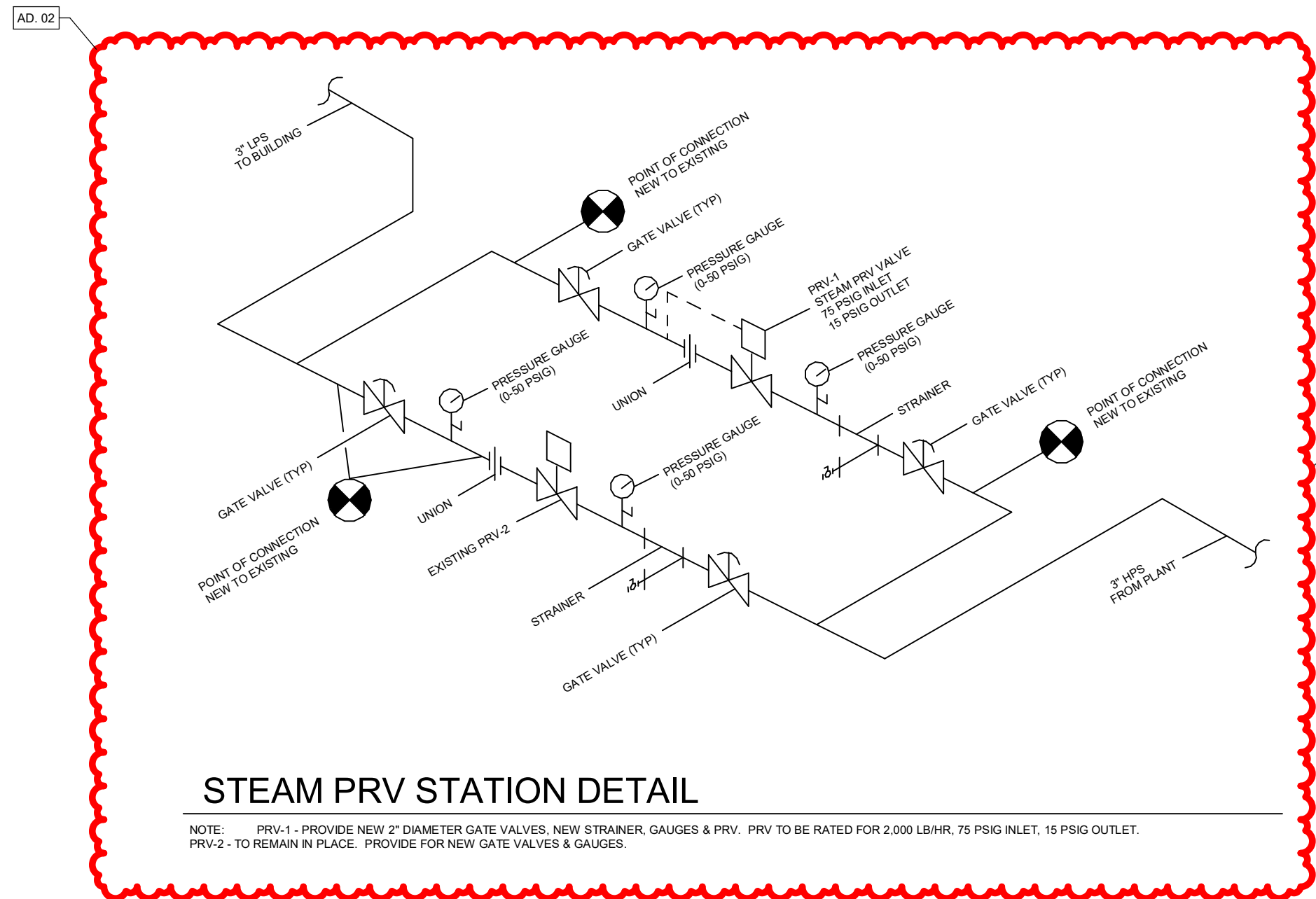


TYPICAL RTU INSTALLATION DETAIL



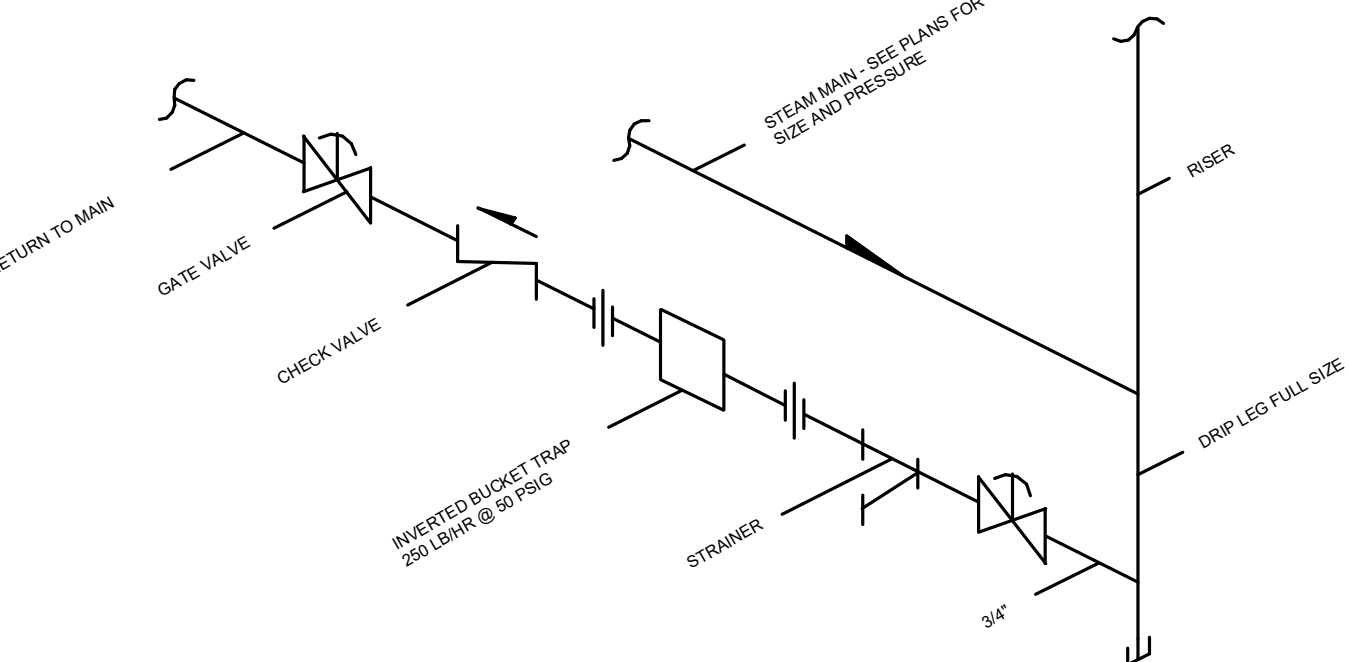
TYPICAL DIFFUSER/GRILLE DETAIL

TEMPERATURE CONTROL DIAGRAMS



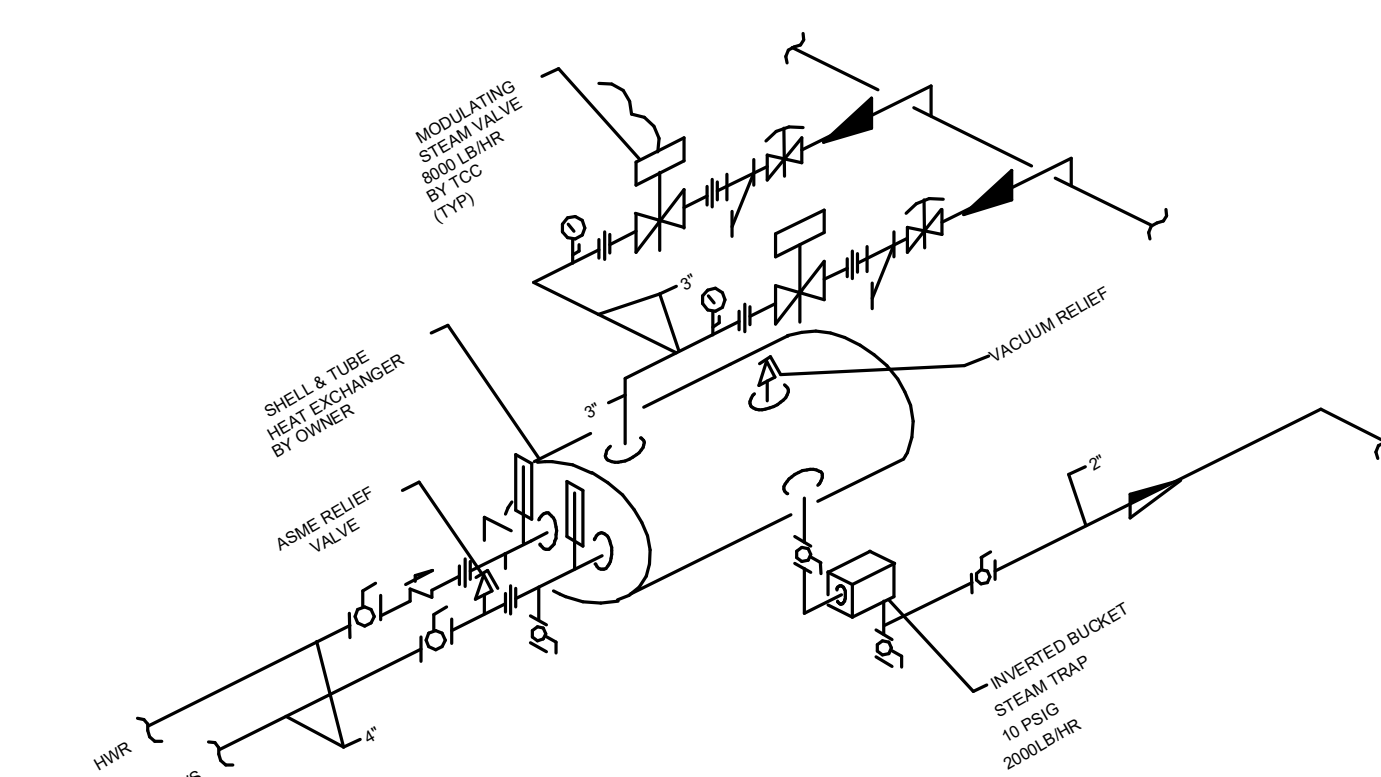
STEAM PRV STATION DETAIL

NOTE: PRV-1: PROVIDE NEW 2" DIAMETER GATE VALVES, NEW STRAINER, GAUGES & PRV. PRV TO BE RATED FOR 2,000 LB/HR, 75 PSIG INLET, 15 PSIG OUTLET. PRV-2: TO REMAIN IN PLACE. PROVIDE FOR NEW GATE VALVES & GAUGES.



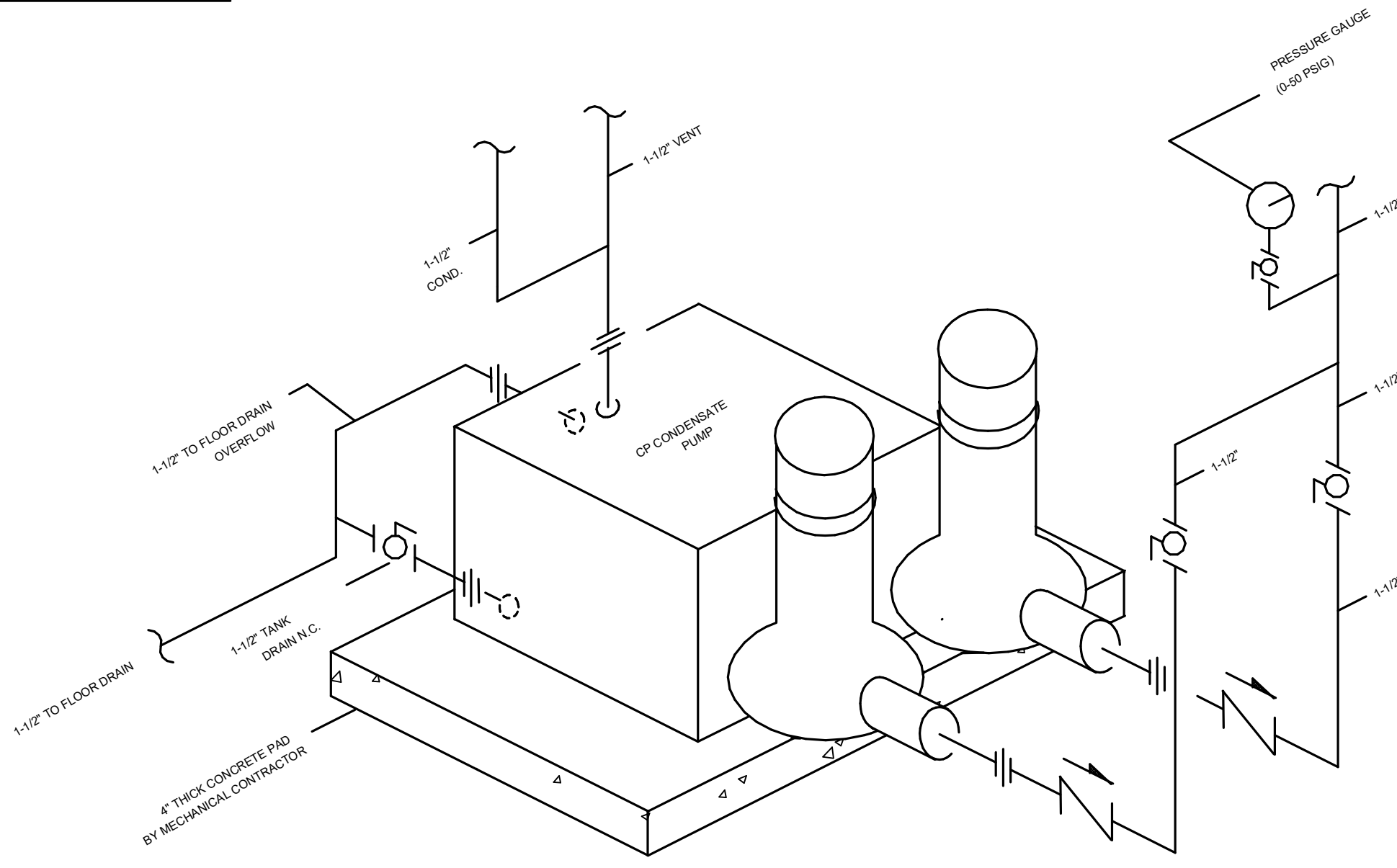
STEAM RISER/END-OF MAIN DRIFT PIPING DIAGRAM

COMPLETE INSTALLATION BY MECHANICAL CONTRACTOR



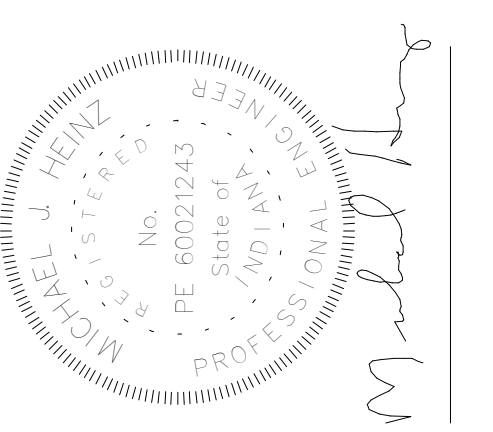
STEAM/HOT WATER CONVERTER PIPING DIAGRAM

COMPLETE INSTALLATION BY MECHANICAL CONTRACTOR
ALL WELDED SUPPORT FRAMING BY MECHANICAL CONTRACTOR



COIL CONDENSATE PUMP PIPING DETAIL (TYP)

NOTE: DUPLEX PUMP INSTALLATION



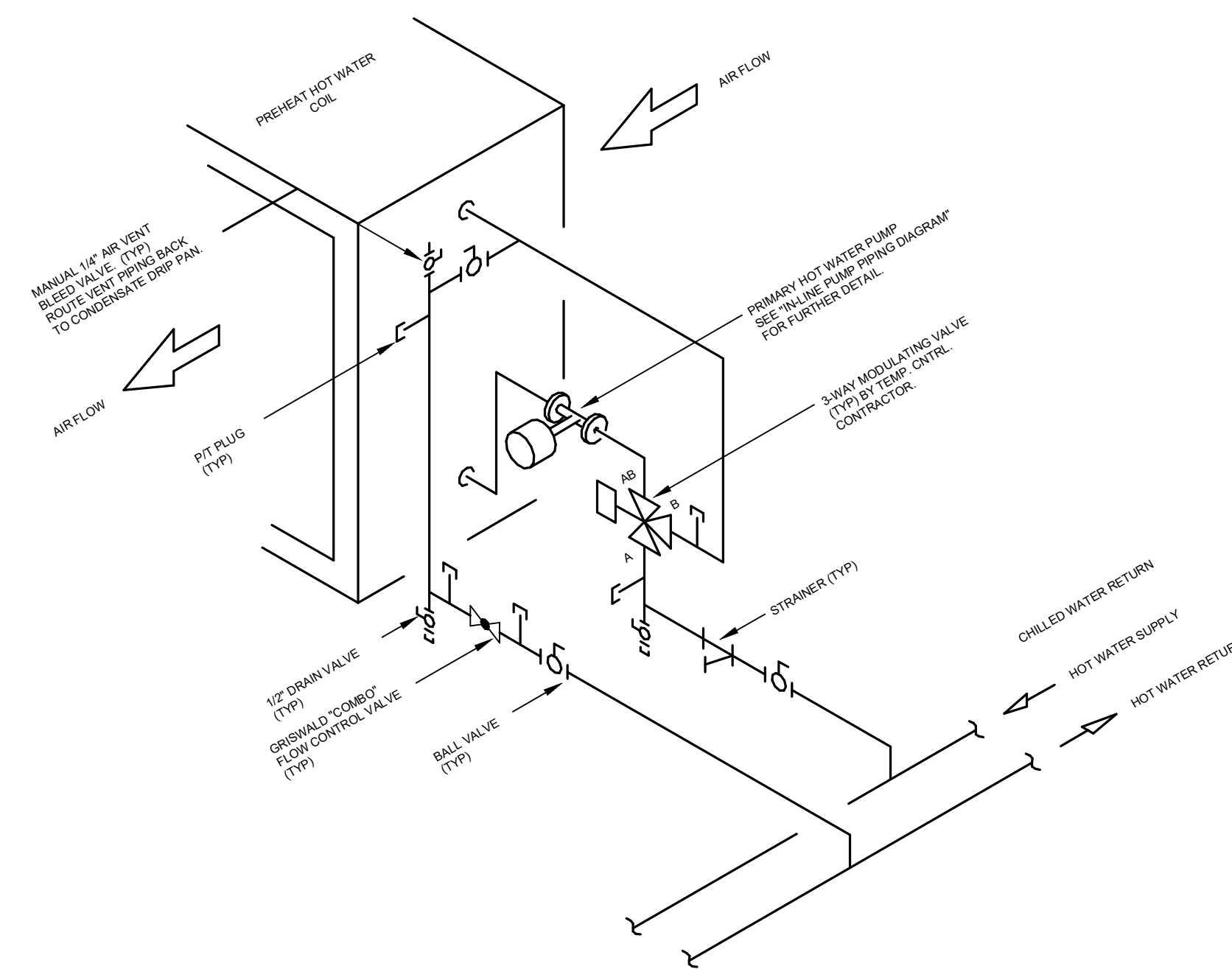
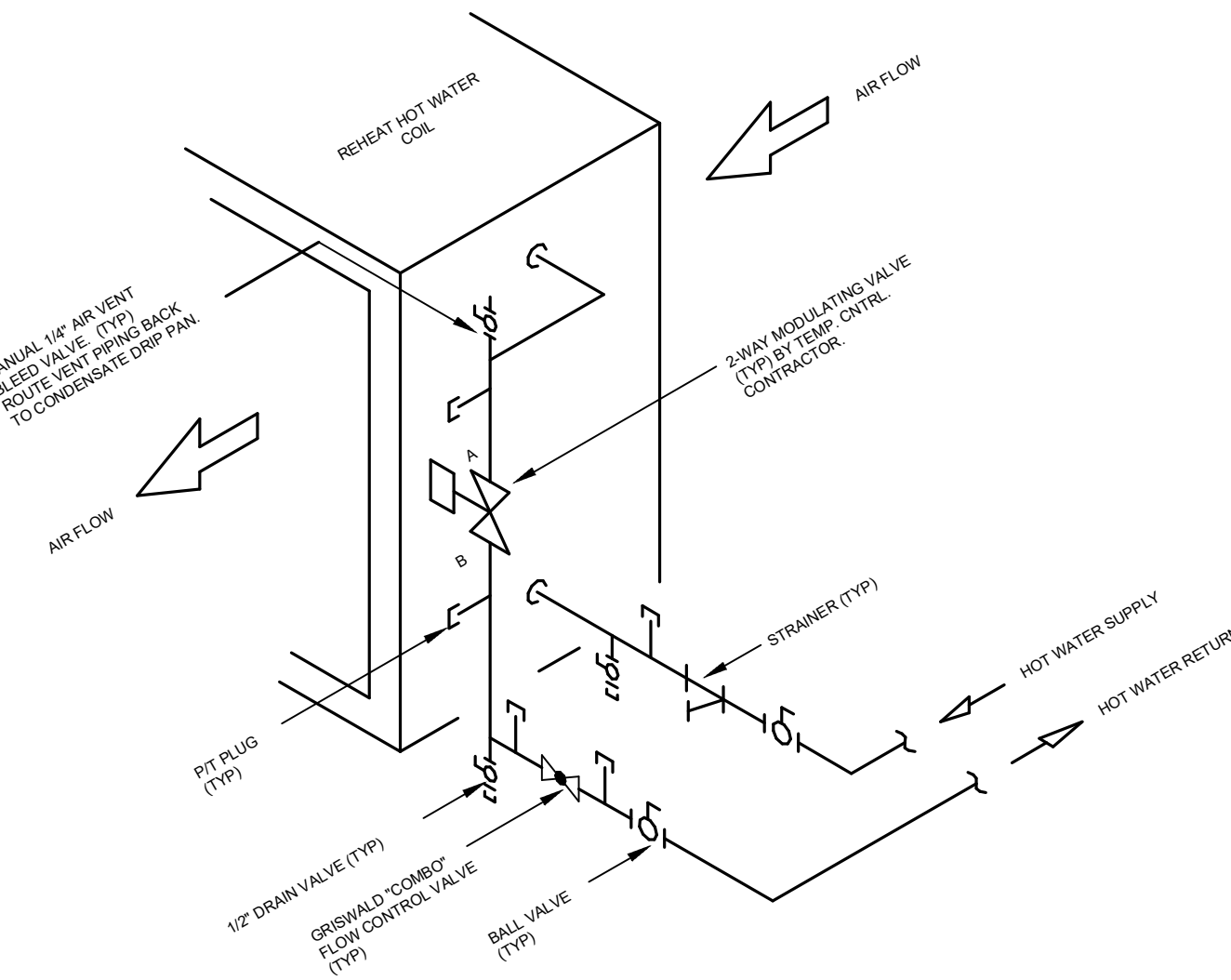
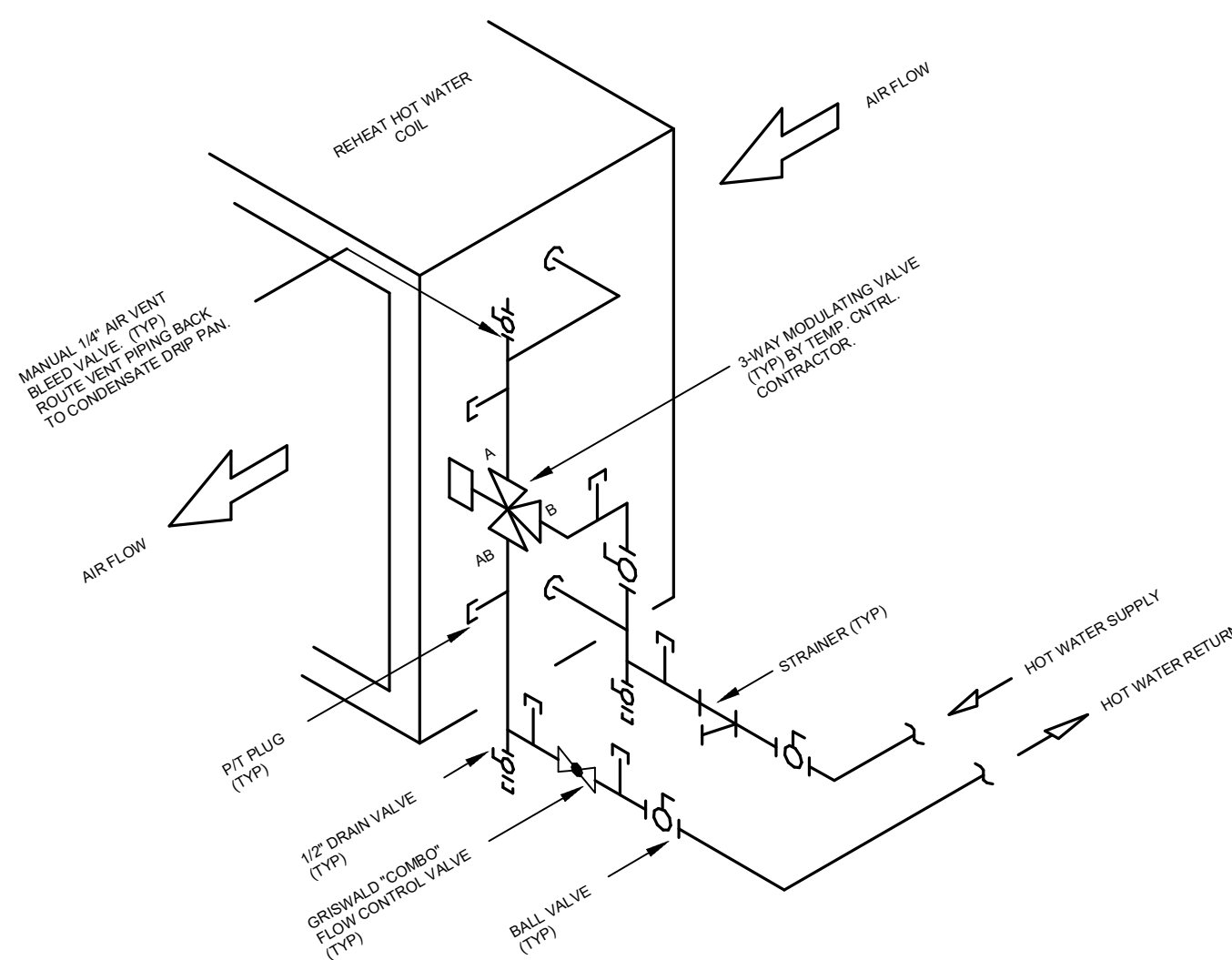
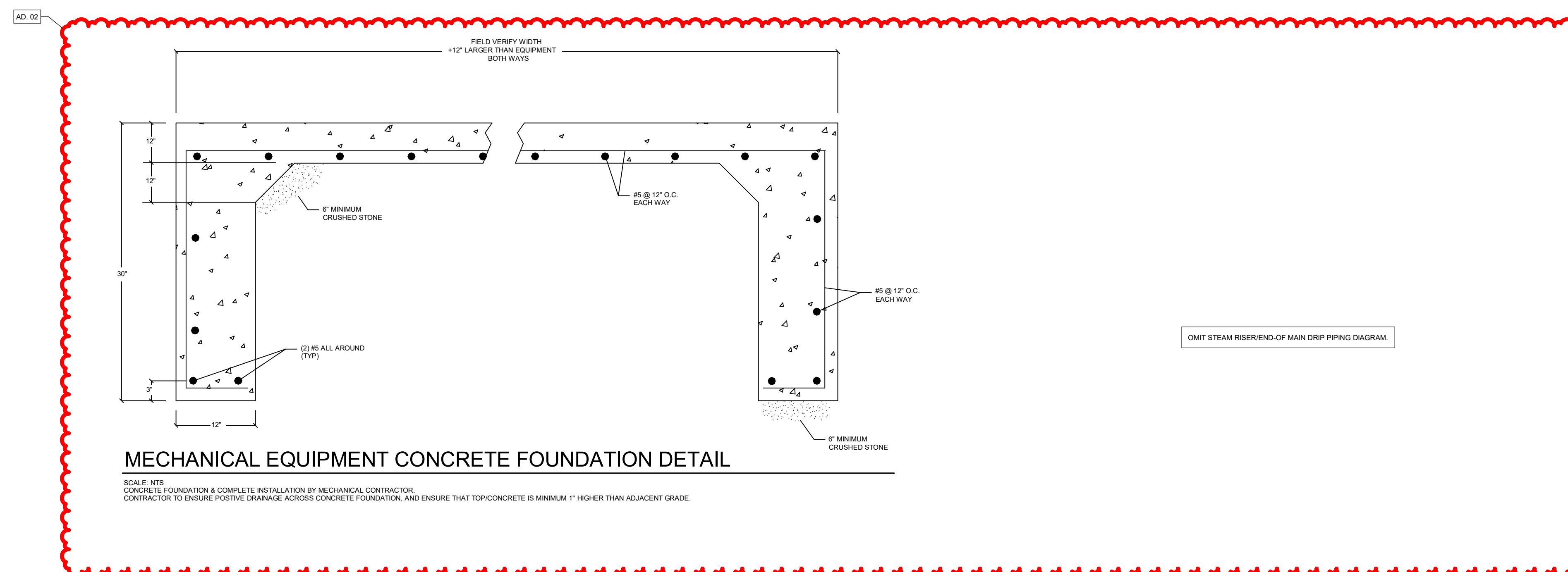
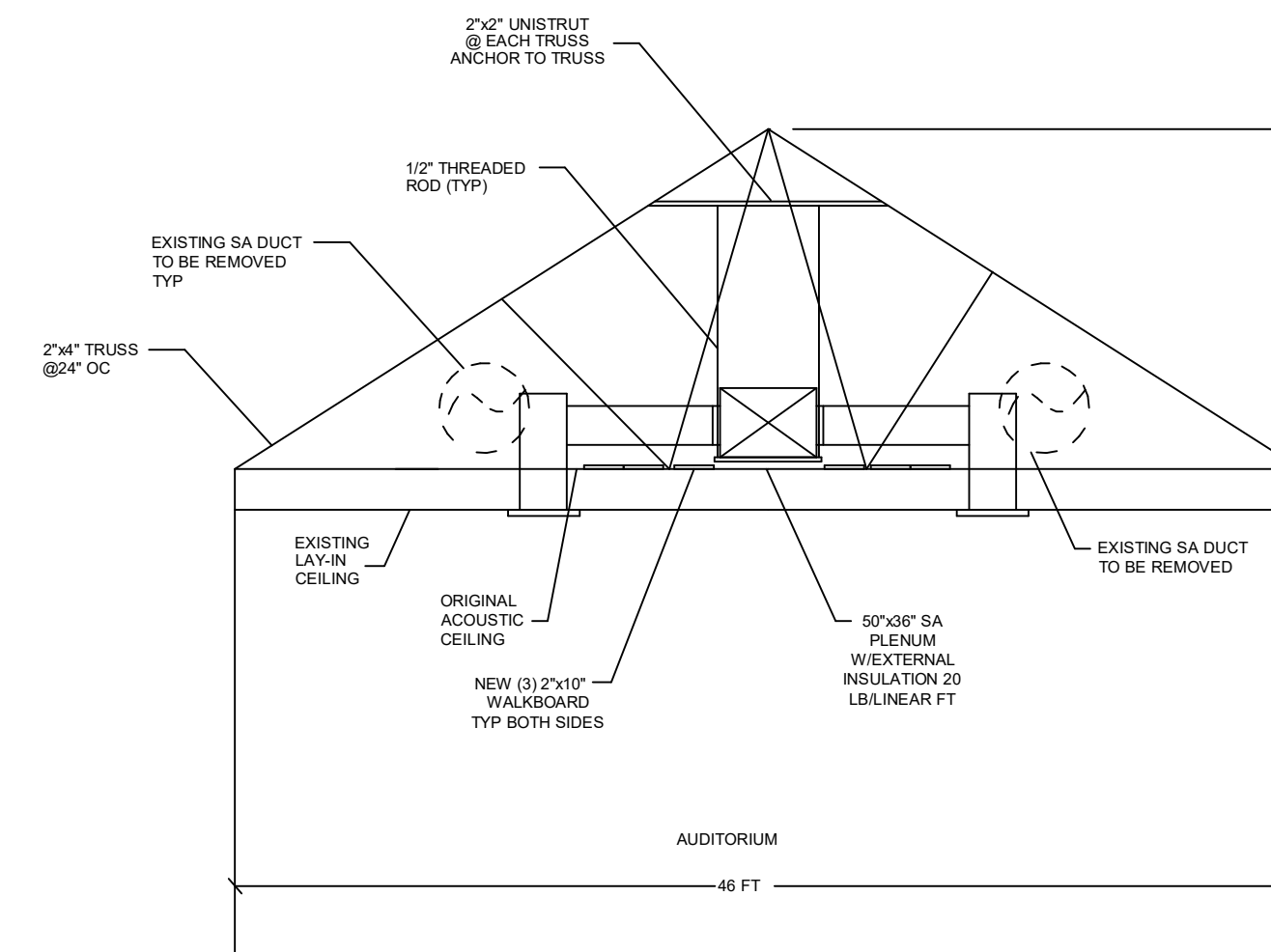
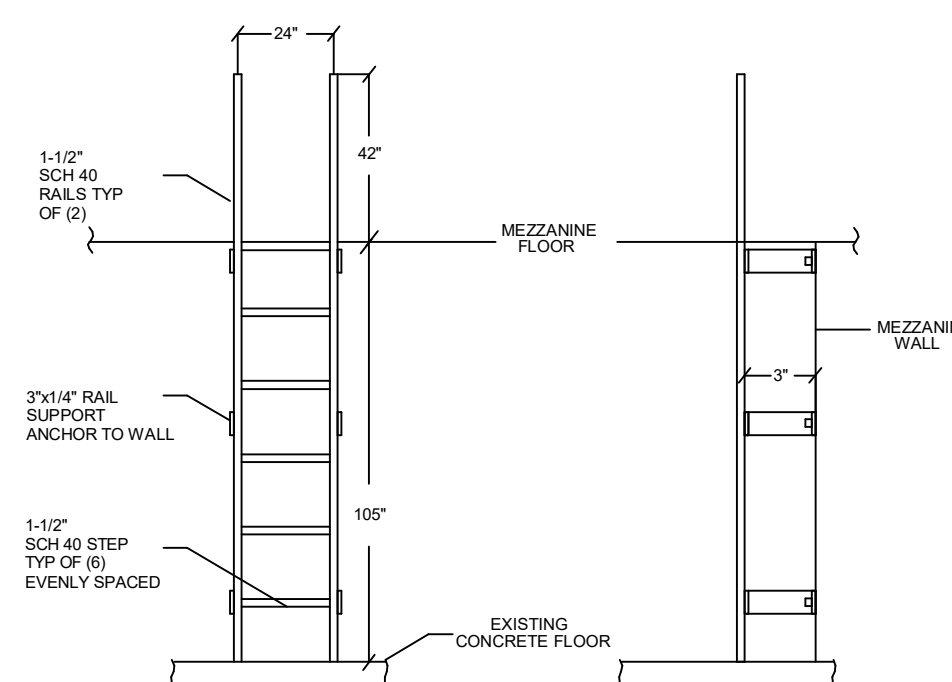
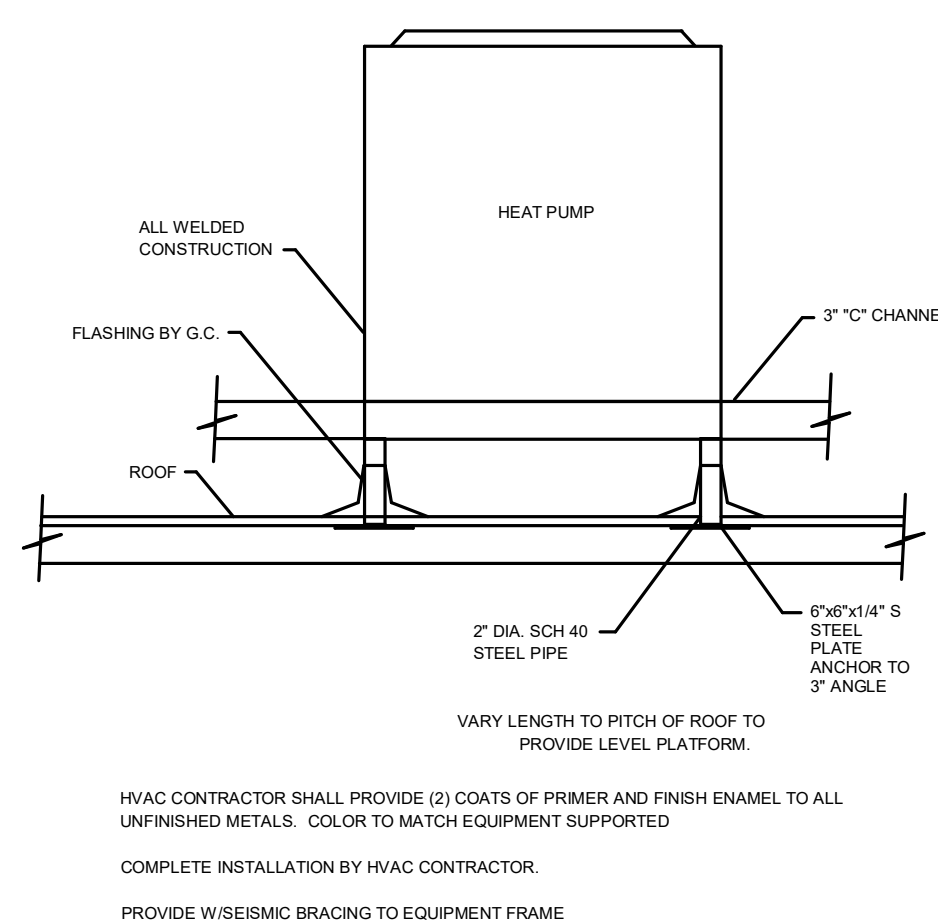
GREEN ACTIVITIES CENTER PARTIAL RENOVATIONS

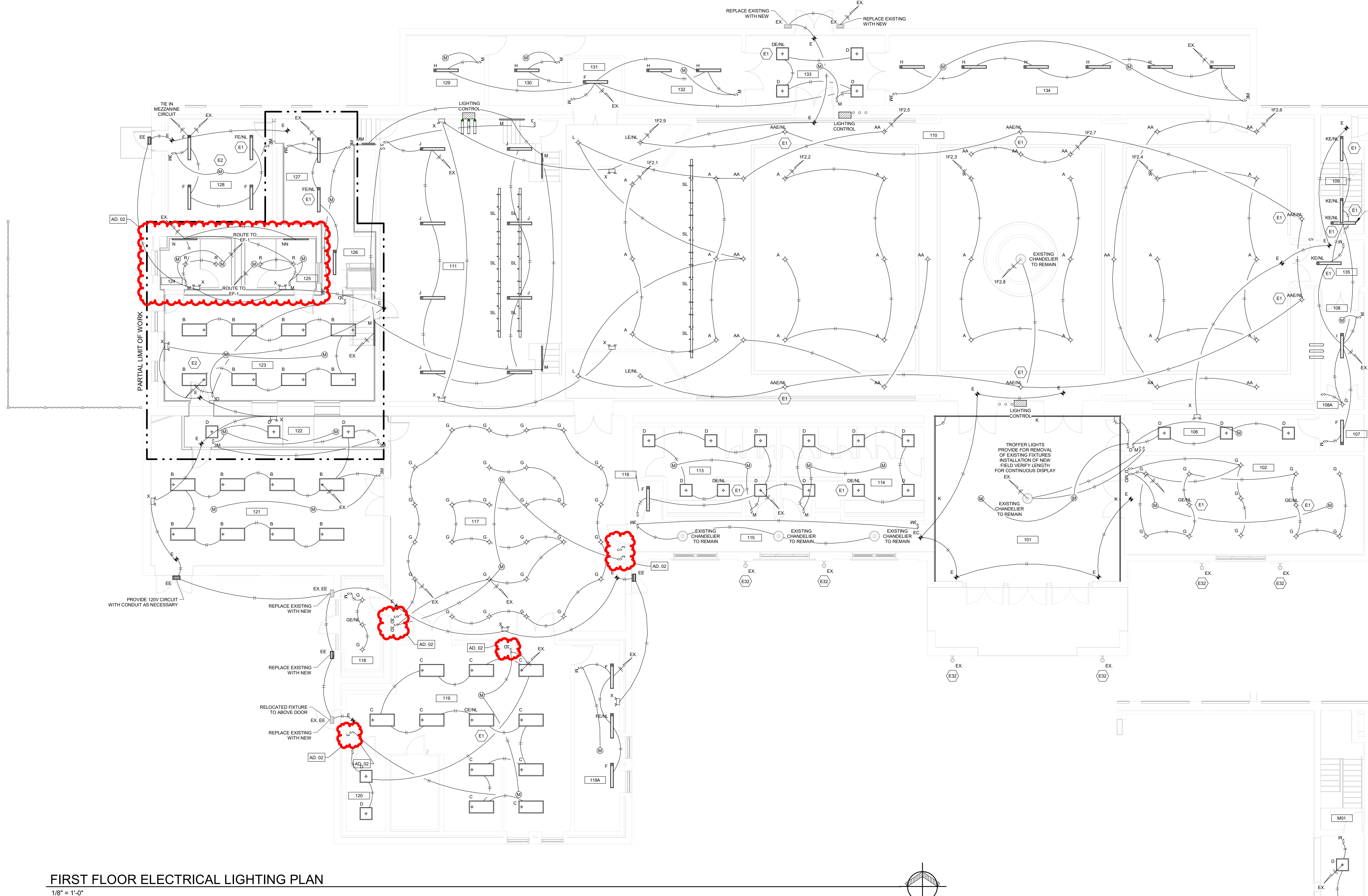
Project #: 71GA-22-01
VINCENNES CAMPUS

#	Revision	Date
AD. 02		2/17/2023

Date: 02-02-2023
Drawn By: NAB
Checked By: MJH

M7
MECHANICAL
DETAILS 1





FIRST FLOOR ELECTRICAL LIGHTING PLAN

1/8" = 1'-0"

ELECTRICAL LIGHT FIXTURE SCHEDULE

- A) COOPER-PORTFOLIO R.D.B.A. IF RECESSED CAN LED FIXTURE, 0-10V DIMMABLE (1%) 400K COLOR, 120V, 15,000 LUMENS, 16 WATTS. WITH DIMMABLE BALLAST, PLASTER RING, LOW SHIELD REFLECTOR, HEAT SINK, RETROFIT TO REPLACE EXISTING FIXTURES IN DRYWALL CEILING. VERIFY EXACT SIZE.
- AA) COOPER-PORTFOLIO R.D.B.A. IF RECESSED CAN LED FIXTURE, 0-10V DIMMABLE (1%) 400K COLOR, 120V, 7,000 LUMENS, 76 WATTS. WITH DIMMABLE BALLAST, PLASTER RING, LOW SHIELD REFLECTOR, HEAT SINK, RETROFIT TO REPLACE EXISTING FIXTURES IN DRYWALL CEILING. VERIFY EXACT SIZE.
- AENL) COOPER-PORTFOLIO R.D.B.A. IF RECESSED CAN LED FIXTURE, 0-10V DIMMABLE (1%) 400K COLOR, 120V, 7,000 LUMENS, 76 WATTS. EQUIP WITH BATTERY/INVERTER FOR USE AS AN EMERGENCY/NIGHT LIGHT. WITH DIMMABLE BALLAST, PLASTER RING, LOW SHIELD REFLECTOR, HEAT SINK, RETROFIT TO REPLACE EXISTING FIXTURES IN DRYWALL CEILING. VERIFY EXACT SIZE.
- B) COOPER-METALLUX KMP2P733C, 2' x 4' RECESSED PLAT PANEL LED FIXTURE, 0-10V DIMMABLE, 4000K COLOR, 120V, 4,591 LUMENS, 42 WATTS.
- BEINL) COOPER-METALLUX KMP2P733C, 2' x 4' RECESSED PLAT PANEL LED FIXTURE, 0-10V DIMMABLE, 4000K COLOR, 120V, 4,591 LUMENS, 42 WATTS. EQUIP WITH BATTERY/INVERTER FOR USE AS AN EMERGENCY/NIGHT LIGHT.
- C) COOPER-METALLUX KMP2P733C, 2' x 4' RECESSED PLAT PANEL LED FIXTURE, 0-10V DIMMABLE, 4000K COLOR, 120V, 10,340 LUMENS, 9 X WATTS. EQUIP WITH BATTERY/INVERTER FOR USE AS AN EMERGENCY/NIGHT LIGHT.
- CENL) COOPER-METALLUX KMP2P733C, 2' x 4' RECESSED PLAT PANEL LED FIXTURE, 0-10V DIMMABLE, 4000K COLOR, 120V, 10,340 LUMENS, 9 X WATTS. EQUIP WITH BATTERY/INVERTER FOR USE AS AN EMERGENCY/NIGHT LIGHT.
- D) COOPER-METALLUX KMP2P733C, 2' x 4' RECESSED PLAT PANEL LED FIXTURE, 0-10V DIMMABLE, 4000K COLOR, 120V, 3,100 LUMENS, 31 WATTS.
- DENL) COOPER-METALLUX KMP2P733C, 2' x 4' RECESSED PLAT PANEL LED FIXTURE, 0-10V DIMMABLE, 4000K COLOR, 120V, 3,100 LUMENS, 31 WATTS. EQUIP WITH BATTERY/INVERTER FOR USE AS AN EMERGENCY/NIGHT LIGHT.
- E) COOPER-SURE-LITE RPLC LED EXIT FIXTURE, MAXIMUM 6 WATTS PER FACE, 120V, LETTERING & CHEVRON COLOR SELECTION TO MATCH EXISTING EXITS. EQUIP WITH BATTERY/INVERTER FOR USE AS AN EMERGENCY/NIGHT LIGHT.
- EC) COOPER-SURE-LITE RPLC LED EXIT FIXTURE WITH EMERGENCY LIGHTS, MAXIMUM 6 WATTS PER FACE, 120V, LETTERING & CHEVRON COLOR SELECTION TO MATCH EXISTING EXITS. EQUIP WITH BATTERY/INVERTER FOR USE AS AN EMERGENCY/NIGHT LIGHT.
- ED) ELECTRICAL CONTRACTOR TO PROVIDE A 600" MATERIAL ALLOWANCE FOR MATCHING REAR ENTRANCE LIGHT FIXTURE. ALL LOCK/INSTALLATION COSTS SHALL BE INCLUDED IN BASE BID.
- F) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, FULL PROTECTED LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- FENL) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, FULL PROTECTED LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS. EQUIP WITH BATTERY/INVERTER FOR USE AS AN EMERGENCY/NIGHT LIGHT.
- G) HALO-COMMERCIAL RH08, IF RECESSED CAN LED FIXTURE, 0-10V DIMMABLE, 4000K COLOR, 120V, MEDIUM DISTRIBUTION, 3,000 LUMENS, 27 WATTS.
- H) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, FULL PROTECTED LENS, 0-10V DIMMABLE, 4000K, 120V, 5,600 LUMENS, 51.5 WATTS.
- J) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, FULL PROTECTED LENS, 0-10V DIMMABLE, 4000K, 120V, 7,300 LUMENS, 62 WATTS.
- K) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, FULL PROTECTED LENS, 0-10V DIMMABLE, 4000K, 120V, 4,214 LUMENS, 13 WATTS. INSTALLED IN CEILING TROFFER.
- L) COOPER-PORTFOLIO R.D.B.A. IF RECESSED CAN LED FIXTURE, 0-10V DIMMABLE, 4000K COLOR, 120V, 4,000 LUMENS, 58 WATTS.
- M) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, FULL PROTECTED LENS, 0-10V DIMMABLE, 4000K, 120V, 3,260 LUMENS, 16 WATTS.
- MM) COOPER-METALLUX RINLED, 2' SURFACE-MOUNT LINEAR LED FIXTURE, FULL PROTECTED LENS, 0-10V DIMMABLE, 4000K, 120V, 3,260 LUMENS, 16 WATTS.
- NN) CELESTIAL-AQUARIUS RH SERIES SURFACE-MOUNT VANTY LED FIXTURE, 4000K, 120V, 2,700 LUMENS, 9 WATT PER LAMP. FACTORY COLOR SELECTION BY ARCHITECT. EQUIP WITH ROUND LAMP GUARD. PROVIDE FOR (1) SWITCH AND (2) DIMMER RECEPTABLES ON VERTICAL SECTIONS AT BOTTOM. SIZING SHALL BE 47H x 17W x 4.75H IN AN UPSIDE DOWN U CONFIGURATION. DIMENSIONS ARE OUTSIDE DIMENSIONS. COORDINATE WITH GENERAL CONTRACTOR.
- NN) CELESTIAL-AQUARIUS RH SERIES SURFACE-MOUNT VANTY LED FIXTURE, 4000K, 120V, 2,700 LUMENS, 9 WATT PER LAMP. FACTORY COLOR SELECTION BY ARCHITECT. EQUIP WITH ROUND LAMP GUARD. PROVIDE FOR (1) SWITCH AND (2) DIMMER RECEPTABLES ON VERTICAL SECTIONS AT BOTTOM. SIZING SHALL BE 47H x 17W x 4.75H IN AN UPSIDE DOWN U CONFIGURATION. DIMENSIONS ARE OUTSIDE DIMENSIONS. COORDINATE WITH GENERAL CONTRACTOR.
- OO) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q2) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q3) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q4) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q5) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q6) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q7) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q8) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q9) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q10) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q11) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q12) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q13) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q14) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q15) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q16) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q17) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q18) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q19) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q20) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q21) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q22) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q23) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
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- Q30) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
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- Q41) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q42) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q43) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
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- Q45) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q46) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q47) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q48) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
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- Q59) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q60) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q61) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
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- Q99) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.
- Q100) COOPER-METALLUX RINLED, 4' SURFACE-MOUNT LINEAR LED FIXTURE, CLEAR LENS, 0-10V DIMMABLE, 4000K, 120V, 4,137 LUMENS, 31 WATTS.

SOUTH MEZZANINE ELECTRICAL LIGHTING PLAN

1/8" = 1'-0"

ELECTRICAL LIGHTING LEGEND

- § SINGLE POLE WALL SWITCH
- § SINGLE POLE WALL SWITCH W/ OCCUPANCY SENSOR
- § SINGLE POLE WALL SWITCH W/ DIMMER
- § WALL SWITCH W/ LIGHTING CONTACTORS
- § 3-WAY WALL SWITCH
- § 4-WAY WALL SWITCH
- § OCCUPANCY SENSOR LIGHT SWITCH
- § ILLUMINATED EXIT SIGN W/ DIRECTION ARROW
- § EMERGENCY EGRESS LIGHT
- § CEILING MOUNT LIGHT FIXTURE
- § WALL MOUNT LIGHT FIXTURE
- § 2X2 LIGHT FIXTURE
- § 2X4 LIGHT FIXTURE
- § STRIP LIGHT FIXTURE

FIRST FLOOR ELECTRICAL LIGHTING PLAN - BASE BID

1/8" = 1'-0"

NORTH MEZZANINE ELECTRICAL LIGHTING PLAN

1/8" = 1'-0"

GENERAL ELECTRICAL NOTES

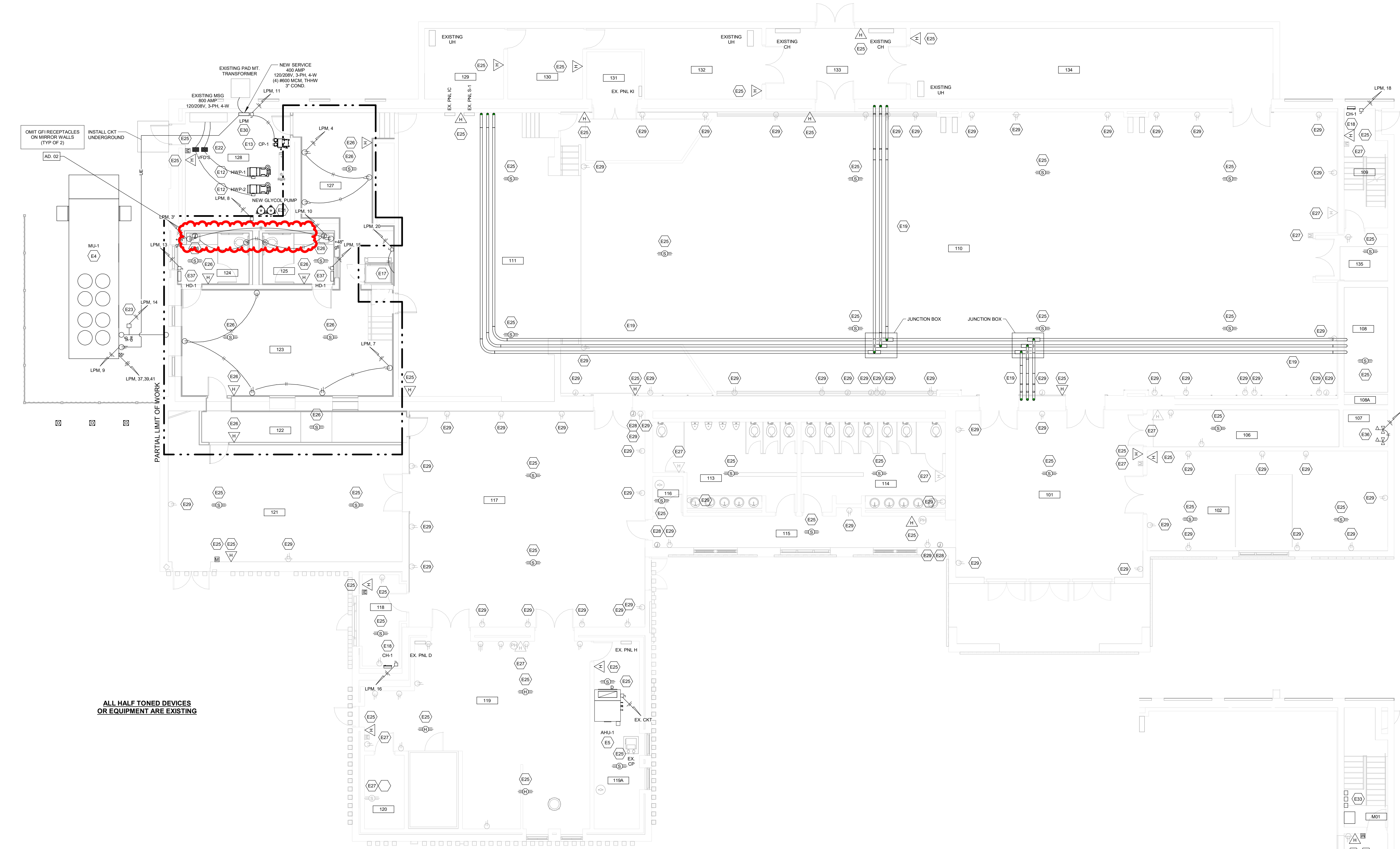
- 01 ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO CONSTRUCTION.
- 02 ELECTRICAL CONTRACTOR SHALL PROVIDE FOR TEMPORARY LIGHTING, AS NEEDED, FOR DURATION OF PROJECT.
- 03 ELECTRICAL CONTRACTOR SHALL CONFIRM ALL EQUIPMENT ELECTRICAL REQUIREMENTS, INCLUDING BREAKER/DISCONNECT CAPACITY, WITH OTHER TRADES PRIOR TO ORDERING.
- 04 ELECTRICAL CONTRACTOR SHALL PROVIDE FOR ALL FINAL TERMINATIONS & CONNECTIONS TO EQUIPMENT & POWER FEED COMPONENT.
- 05 ELECTRICAL CONTRACTOR SHALL VERIFY ALL CIRCUITS IN EXISTING PANELS AND PROVIDE FOR NEW, TYPED CIRCUIT BREAKERS AS REQUIRED FOR INSTALLATION OF ALL CIRCUITS AS SHOWN.
- 06 ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONCRETE FLOOR CUTTING & REMOVAL, WHICH PERTAINS TO THEIR RESPECTIVE WORK, AND ALSO RESPONSIBLE FOR NEW COMPACTED GRANULAR BACKFILL TO UNDERLIE OF SLAB. ALL REMOVED SPOL SHALL BE REMOVED & DISPOSED OFF-SITE. NO RE-USE ALLOWED. ELECTRICAL CONTRACTOR RESPONSIBLE FOR CONCRETE FLOOR REPLACEMENT INCLUDING FINAL FINISH.
- 07 ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL AFFECTED ROOF, CEILING, WALLS & FLOORS, AND FINISHING FLUSH TO SURFACE. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SURFACE FINISH PAINT. TEL.
- 08 THROUGH-WALL AND MEMBRANE PENETRATIONS IN FIRE RESISTIVE WALLS SHALL BE PRE-INSTALLED IN ACCORDANCE WITH THE INDIANA BUILDING CODE REGULATIONS. A COMBUSTIBLE CONSTRUCTION, FIRE-STOPPING SHALL BE INSTALLED TO EXT. CONTROL DRAFT OPENINGS BOTH VERTICAL & HORIZONTAL AND SHALL FORM AN EFFECTIVE BARRIER BETWEEN FLOORS, BETWEEN A TOP STORY AND A ROOF OR ATTIC SPACE. FIRE-STOPPING SHALL BE INSTALLED IN LOCATIONS IN ACCORDANCE WITH THE INDIANA BUILDING CODE REGULATIONS.

KEYED ELECTRICAL NOTES

- E1 ELECTRICAL CONTRACTOR SHALL PROVIDE FOR A SECOND CIRCUIT ROUTED TO EACH EMERGENCY/NIGHT LIGHT FIXTURE, INCLUDING THE SWITCHES. IN POWER OUTAGE, THIS SECOND CIRCUIT SHALL SEE NO POWER, WHICH WILL ENABLE FIXTURES BATTERY BACK-UP AND PROVIDE FOR EMERGENCY EGRESS EXITING. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- E2 ELECTRICAL CONTRACTOR SHALL INSTALL NEW LIGHT FIXTURE AFTER MECHANICAL DUCTWORK & PIPING IS SUBSTANTIALLY COMPLETE. EXTENDING WIRING/CONDUIT TO NEW FIXTURE LOCATIONS, AS NECESSARY. EXACT FIXTURE LOCATION TO BE FIELD DETERMINED, TO PROVIDE OPTIMAL ILLUMINATION IN ROOM. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- E3 NOT USED

- E4 MAKE-UP AIR UNIT, WITH CONCRETE FOUNDATION, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 200V 3-PH CIRCUIT. (3) #10 THIN + GND, COMPLETE NEMA 3R DISCONNECT. NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR (2) DUCT SMOKE DETECTORS. LOCATED IN RETURN AIR DUCTWORK. ROUTED TO EXISTING FIRE ALARM CONTROL PANEL & PROGRAMMED TO AUTOMATICALLY SHUT DOWN FAN OPERATION UPON ACTIVATION. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- E5 AIR HANDLING UNIT, WITH SPRING ISOLATORS & STRUCTURAL STEEL FRAMING, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 200V 3-PH CIRCUIT. (3) #10 THIN + GND, COMPLETE NEMA 3R DISCONNECT. NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR (1) DUCT SMOKE DETECTOR. LOCATED IN RETURN AIR DUCTWORK. ROUTED TO EXISTING FIRE ALARM CONTROL PANEL & PROGRAMMED TO AUTOMATICALLY SHUT DOWN FAN OPERATION UPON ACTIVATION. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- E6 ROOF TOP AIR HANDLING UNIT, WITH SEISMIC INSULATED ROOF CURB & STRUCTURAL STEEL REINFORCING, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 200V 3-PH CIRCUIT. (3) #10 THIN + GND, COMPLETE NEMA 3R DISCONNECT. NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR (1) DUCT SMOKE DETECTOR. LOCATED IN RETURN AIR DUCTWORK. ROUTED TO EXISTING FIRE ALARM CONTROL PANEL & PROGRAMMED TO AUTOMATICALLY SHUT DOWN FAN OPERATION UPON ACTIVATION. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.

- E7 ROOF TOP AIR HANDLING UNIT, WITH SEISMIC INSULATED ROOF CURB & STRUCTURAL STEEL REINFORCING, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 200V 3-PH CIRCUIT. (3) #10 THIN + GND, COMPLETE NEMA 3R DISCONNECT. NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR (1) DUCT SMOKE DETECTOR. LOCATED IN RETURN AIR DUCTWORK. ROUTED TO EXISTING FIRE ALARM CONTROL PANEL & PROGRAMMED TO AUTOMATICALLY SHUT DOWN FAN OPERATION UPON ACTIVATION. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- E8 CONDENSING UNIT, WITH SEISMICALLY DESIGNED RAILS & STRUCTURAL STEEL REINFORCING, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 200V 3-PH CIRCUIT. (3) #10 THIN + GND, COMPLETE NEMA 3R DISCONNECT. NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.



FIRST FLOOR ELECTRICAL POWER/SYSTEMS PLAN

1/8" = 1'-0"

ELECTRICAL POWER LEGEND

- 120V DUPLEX RECEPTACLE
- 120V DUPLEX RECEPTACLE (GFI)
- 120V DUPLEX RECEPTACLE (WEATHER PROOF, GFI)
- FLOOR BOX WITH (1) 120V CIRCUIT & (2) DATA DROPS
- 120V DUPLEX RECEPTACLE
- 208/240V DUPLEX RECEPTACLE
- DISCONNECT
- DISCONNECT (WEATHER PROOF)
- MOTOR STARTER/DISCONNECT
- CIRCUIT W/ WIRE COUNT
- CIRCUIT TO PANEL
- PANEL/SWITCHGEAR
- MOTOR

SAFETY / SECURITY LEGEND

- MANUAL PULL STATION
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- AUDIBLE ALARM
- AUDIBLE/VISUAL ALARM
- KEYPAD (DOOR ACCESS)
- CLOSED CIRCUIT CAMERA
- DOOR HOLD OPEN

SOUTH MEZZANINE ELECTRICAL POWER/SYSTEMS PLAN

1/8" = 1'-0"

NORTH MEZZANINE ELECTRICAL POWER/SYSTEMS PLAN

1/8" = 1'-0"

GENERAL ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO CONSTRUCTION.
- ELECTRICAL CONTRACTOR SHALL PROVIDE FOR TEMPORARY LIGHTING, AS NEEDED, FOR DURATION OF PROJECT.
- ELECTRICAL CONTRACTOR SHALL CONFIRM ALL EQUIPMENT ELECTRICAL REQUIREMENTS, INCLUDING BREAKER/DISCONNECT CAPACITY, WITH OTHER TRADES PRIOR TO ORDERING.
- ELECTRICAL CONTRACTOR SHALL PROVIDE FOR ALL FINAL TERMINATIONS & CONNECTIONS TO EQUIPMENT & POWER FEED COMPONENT.
- ELECTRICAL CONTRACTOR SHALL VERIFY ALL CIRCUITS IN EXISTING PANELS AND PROVIDE FOR NEW, TYPED PANELS LEADING UPON COMPLETION. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SURFACE FINISH, INCLUDING FINAL FINISH.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONCRETE FLOOR CUTTING & REMOVAL, WHICH PERTAINS TO THEIR RESPECTIVE WORK, AND COMPACTED GRANULAR BACKFILL TO UNDERSIDE OF SLAB. ALL REMOVED SPOL SHALL BE REMOVED & DISPOSED OFF-SITE - NO RE-USE ALLOWED. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONCRETE FLOOR REPLACEMENT, INCLUDING FINAL FINISH.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL AFFECTED ROOF, CEILING, WALLS & FLOORS, AND FINISHING FLUSH TO SURFACE. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SURFACE FINISH, INCLUDING FINAL FINISH.
- TWO-WAY AND MEMORANDUM POWER/TELEPHONE RESISTIVE WALLS SHALL BE PRE-INSTALLED IN ACCORDANCE WITH THE INDIANA BUILDING CODE REGULATIONS. IN COMBUSTIBLE CONSTRUCTION, FIREWORKS SHALL BE INSTALLED TO CUT CONTROLLED DRAFT OPENINGS BOTH VERTICAL AND HORIZONTAL AND SHALL FORM AN EFFECTIVE BARRIER BETWEEN FLOORS, BETWEEN A TOP STORY AND A ROOF OR ATTIC SPACE. FIREWORKS SHALL BE INSTALLED IN LOCATIONS IN ACCORDANCE WITH THE INDIANA BUILDING CODE REGULATIONS.

KEYED ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR SHALL PROVIDE FOR A SECOND CIRCUIT ROUTED TO EACH EMERGENCY NIGHT LIGHT FIXTURE, BY PASSING THE SWITCHES. IN POWER OUTAGE, THIS SECOND CIRCUIT SHALL SEE NO POWER, WHICH WILL ENABLE FIXTURES BATTERY BACK-UP AND PROVIDE FOR EMERGENCY EGRESS LEAVING. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ELECTRICAL CONTRACTOR SHALL INSTALL NEW LIGHT FIXTURE AFTER MECHANICAL DUCTWORK & PIPING IS SUBSTANTIALLY COMPLETE, EXTENDING WIRING/CONDUIT TO NEW FIXTURE LOCATIONS, AS NECESSARY. EXACT FIXTURE LOCATION TO BE FIELD DETERMINED, TO PROVIDE OPTIMAL ILLUMINATION IN ROOM. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- NOT USED
- MAKE-UP AIR UNIT, WITH CONCRETE FOUNDATION, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 3-PH CIRCUIT, (3) #10 THHN + GND, COMPLETE NEMA 3R DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR (3) DUCT SMOKE DETECTORS, LOCATED IN SUPPLY & RETURN AIR DUCTWORK, ROUTED TO EXISTING FIRE ALARM CONTROL PANEL & PROGRAMMED TO AUTOMATICALLY SHUT DOWN FAN OPERATION UPON ACTIVATION. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- AIR HANDLING UNIT, WITH SPRING ISOLATORS & STRUCTURAL STEEL FRAMING, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 3-PH CIRCUIT, (3) #10 THHN + GND, COMPLETE NEMA 3R DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE (3) DUCT SMOKE DETECTORS, LOCATED IN RETURN AIR DUCTWORK, ROUTED TO EXISTING FIRE ALARM CONTROL PANEL & PROGRAMMED TO AUTOMATICALLY SHUT DOWN FAN OPERATION UPON ACTIVATION. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ROOFTOP AIR HANDLING UNIT, WITH SEISMIC INSULATED ROOF CURB & STRUCTURAL STEEL REINFORCING, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 3-PH CIRCUIT, (3) #10 THHN + GND, COMPLETE NEMA 3R DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE (3) DUCT SMOKE DETECTORS, LOCATED IN RETURN AIR DUCTWORK, ROUTED TO EXISTING FIRE ALARM CONTROL PANEL & PROGRAMMED TO AUTOMATICALLY SHUT DOWN FAN OPERATION UPON ACTIVATION. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ROOFTOP AIR HANDLING UNIT, WITH SEISMIC INSULATED ROOF CURB & STRUCTURAL STEEL REINFORCING, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 3-PH CIRCUIT, (3) #10 THHN + GND, COMPLETE NEMA 3R DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE (3) DUCT SMOKE DETECTORS, LOCATED IN RETURN AIR DUCTWORK, ROUTED TO EXISTING FIRE ALARM CONTROL PANEL & PROGRAMMED TO AUTOMATICALLY SHUT DOWN FAN OPERATION UPON ACTIVATION. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- CONDENSING UNIT, WITH SEISMICALLY DESIGNED RAILS & STRUCTURAL STEEL REINFORCING, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 3-PH CIRCUIT, (3) #10 THHN + GND, COMPLETE NEMA 3R DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- EXHAUST FAN, WITH INSULATED ROOF CURB, M.O. DAMPER & BROSIGREEN, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 1-PH CIRCUIT, (2) #12 THHN + GND, COMPLETE NEMA 1 COMBINATION STARTER/DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. EXHAUST FAN TO BE CONTROLLED VIA IN-ROOM OCCUPANCY SENSOR WITH TIME DELAY OFF. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- HEAT PUMP UNIT, WITH SEISMICALLY DESIGNED RAILS & STRUCTURAL STEEL REINFORCING, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 1-PH CIRCUIT, (2) #12 THHN + GND, COMPLETE NEMA 3R DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- FAN COIL UNIT, WITH SEISMICALLY DESIGNED HANGERS, SPRING ISOLATORS & INTEGRAL CONDENSATE PUMP, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 1-PH CIRCUIT, (2) #12 THHN + GND, COMPLETE NEMA 1 COMBINATION STARTER/DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- HYDRO-PUMP, WITH CONCRETE HOUSEKEEPING PAD, GROUTING, & SEISMIC INERTIA RESTRAINT BASE, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 3-PH CIRCUIT, (3) #10 THHN + GND, COMPLETE NEMA 3R DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE (3) DUCT SMOKE DETECTORS, LOCATED IN RETURN AIR DUCTWORK, ROUTED TO EXISTING FIRE ALARM CONTROL PANEL & PROGRAMMED TO AUTOMATICALLY SHUT DOWN FAN OPERATION UPON ACTIVATION. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- STEAM CONDENSATE PUMP, WITH CONCRETE HOUSEKEEPING PAD, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 1-PH CIRCUIT, (2) #12 THHN + GND, COMPLETE NEMA 1 COMBINATION STARTER/DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- NEW EXIT DOOR BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR ANY CONDUIT/CONDUCTOR RELOCATIONS, AS NECESSARY. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- MECHANICAL CONTRACTOR SHALL PROVIDE FOR RELOCATION OF EXISTING WATER HEATER & PUMP, AS SHOWN, COMPLETE WITH ANY NECESSARY PIPING EXTENSIONS. FOR WATER HEATER, ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 3-PH CIRCUIT, (3) #10 THHN + GND, COMPLETE NEMA 1 COMBINATION STARTER/DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 1-PH CIRCUIT, (2) #12 THHN + GND, COMPLETE NEMA 1 COMBINATION STARTER/DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- CONDENSING UNIT, WITH SEISMICALLY DESIGNED RAILS & STRUCTURAL STEEL REINFORCING, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 208V 3-PH CIRCUIT, (3) #10 THHN + GND, COMPLETE NEMA 3R DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- LIFT PROVIDED & INSTALLED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 120V 1-PH CIRCUIT, (2) #12 THHN + GND, COMPLETE NEMA 1 COMBINATION STARTER/DISCONNECT, NEW BREAKER/USING AT FEEDER PANEL & FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER & CONTROL WIRING FROM CONTROL TO LIFT. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ELECTRIC CABINET HEATER BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR A 120V 1-PH CIRCUIT, (2) #12 THHN + GND, WITH A NEMA 1 DISCONNECT, COMPLETE WITH FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES & OWNER.
- CONDUITS BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR (3) 4" CONDUITS, ROUTE FROM EXISTING BOOTH TO STAGE. ELECTRICAL CONTRACTOR SHALL ROUTE DROPS AT LIGHTING CONTROLS IN AUDITORIUM AS SHOWN. ELECTRICAL CONTRACTOR SHALL INCLUDE A PULL BOX IN EACH CONDUIT FOR FUTURE. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES & OWNER.
- TELEVISION PROVIDED BY OWNER, WITH MOUNTING & INSTALLATION BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 120V DUPLEX OUTLET & 1/2" OUTLET DROP, (1) 1/2" HMM DROP AT APPROXIMATELY 6'4" A.F.F. ELECTRICAL CONTRACTOR SHALL CONFIRM EXACT LOCATION & ELEVATION WITH ARCHITECT. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- VAV BOX UNIT, WITH SPRING ISOLATORS, BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 120V 1-PH CIRCUIT, (2) #12 THHN + GND, WITH A 1-POL NEMA 1 COMBINATION STARTER/DISCONNECT, COMPLETE WITH FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ELECTRICAL CONTRACTOR SHALL INVESTIGATE & REPAIR WIRING ON 100A BREAKER LISTED AS 'ICE MACHINE'. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- HEATING HOT WATER PIPING BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE HEAT TRACE FOR FULL LENGTH IN WATTETS, WITH A 120V 1-PH CIRCUIT, (2) #12 THHN + GND, COMPLETE WITH A NEMA 3R DISCONNECT, THERMOSTAT FOR AUTOMATIC OPERATION, & FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ELECTRICAL CONTRACTOR SHALL REPLACE EXISTING STAGE HOUSE LIGHTING AS SHOWN. COORDINATE NEW LOCATIONS WITH OWNER. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- NEW FIRE ALARM DEVICE (SMOKE/HEAT DETECTOR, HORNS/ROBBER ALARM, MANUAL PULL STATION, ETC.) BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR COMPLETE INSTALLATION, AS PER MANUFACTURERS RECOMMENDATIONS & DETAILS, COMPLETE WITH FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR TESTING OF ENTIRE SYSTEM, PRIOR TO SUBSTANTIAL COMPLETION, NOT ALL DEVICES ARE INDICATED WITH A KEYED NOTE, FOR CLARITY. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- NEW FIRE ALARM DEVICE (SMOKE/HEAT DETECTOR, HORNS/ROBBER ALARM, MANUAL PULL STATION, ETC.) BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR COMPLETE INSTALLATION, AS PER MANUFACTURERS RECOMMENDATIONS & DETAILS, COMPLETE WITH FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR TESTING OF ENTIRE SYSTEM, PRIOR TO SUBSTANTIAL COMPLETION, NOT ALL DEVICES ARE INDICATED WITH A KEYED NOTE, FOR CLARITY. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ELECTRICAL CONTRACTOR SHALL DISCONNECT/REMOVE EXISTING FIRE ALARM DEVICE (SMOKE/HEAT DETECTOR, HORNS/ROBBER ALARM, MANUAL PULL STATION, ETC.) THEN PROVIDE FOR NEW DEVICE & WIRING TO NEW FIRE ALARM PANEL. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR TESTING & REPAIR OF ENTIRE SYSTEM, PRIOR TO SUBSTANTIAL COMPLETION. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- GENERAL CONTRACTOR SHALL PAINT EXISTING JUNCTION BOX FACEPLATE TO MATCH EXISTING WALL COLOR. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ELECTRICAL CONTRACTOR SHALL REPLACE EXISTING RECEPTACLE (DUPLEX, GFCI, QUAD, ETC.) WITH NEW RECEPTACLE (SAME TYPE) GREY IN COLOR, AS SHOWN. ELECTRICAL CONTRACTOR SHALL REPLACE EXISTING FACEPLATE, INCLUDING JUNCTION BOXES, WITH NEW FACEPLATE, STAINLESS STEEL FINISH, AS SHOWN. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- PANEL BOARD BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR COMPLETE INSTALLATION, AS PER MANUFACTURERS RECOMMENDATIONS & DETAILS, COMPLETE WITH FINAL TERMINATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR NEW FEEDER WITH CIRCUIT BREAKER FROM EXISTING MSS. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR A FLOOR MOUNT A-FRAME FOR PANEL SUPPORT. DO NOT MOUNT PANEL UNDER DUCTWORK. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- GLYCOL PUMP BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR A 120V 1-PH CIRCUIT, (2) #12 THHN + GND, WITH A NEMA 1 DISCONNECT, COMPLETE WITH FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ELECTRICAL CONTRACTOR SHALL CONFIRM CIRCUIT, THEN DISCONNECT/REMOVE AND CLEAN EXISTING LIGHT FIXTURES, LEAVING ALL ASSOCIATED CONDUIT, FOR RECONNECTIONS & EXTENSIONS, AS NECESSARY. ELECTRICAL CONTRACTOR SHALL RETROFIT LIGHT FIXTURES FOR LED CAPABILITIES. EQUIP WITH BATTERY INVERTER FOR USE AS AN EMERGENCY NIGHT LIGHT WITH PHOTOCELL. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR COMPLETE INSTALLATION, AS PER MANUFACTURERS RECOMMENDATIONS & DETAILS, COMPLETE WITH FINAL TERMINATIONS. CUSTOM COLOR SELECTION BY ARCHITECT. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ELECTRICAL CONTRACTOR SHALL PROVIDE FOR GROUNDING OF (3) URUGRE SUPPRESSION DEVICES. ELECTRICAL CONTRACTOR SHALL GROUND DEVICES TO BUILDING GROUND. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ELECTRICAL CONTRACTOR SHALL PROVIDE FOR CLEANING OF EXISTING CHANDELIERS BY PROFESSIONAL CLEANING COMPANY AT END OF PROJECT.
- FIRE ALARM PANEL BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR COMPLETE INSTALLATION, AS PER MANUFACTURERS RECOMMENDATIONS & DETAILS, COMPLETE WITH FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- FIRE SPRINKLER FLOW & VALVE TAMPERS SWITCHES BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE ALARM CIRCUIT TO FLOW & TAMPERS SWITCHES AT INTERIOR FIRE LOCATION OF EXTERIOR PLV. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW-CUTTING, LOCATION INSTALLATION, & BACKFILLING/CONCRETE, AND COMPLETE SURFACE RESTORATION. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ELECTRIC HAND DRYER BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A 120V 1-PH CIRCUIT, (2) #12 THHN + GND, WITH A NEMA 1 DISCONNECT, WITH FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.
- ELECTRICAL CONTRACTOR SHALL PROVIDE HEAT TRACE FOR EXISTING ROOF DRAINAGE, FULL LENGTH (8 WATTETS) WITH A 120V 1-PH CIRCUIT, (2) #12 THHN + GND, COMPLETE WITH A NEMA 3R DISCONNECT, THERMOSTAT FOR AUTOMATIC OPERATION, & FINAL TERMINATIONS. COORDINATE INSTALLATION WITH ALL TRADES & OWNER.

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CONSULTANT:

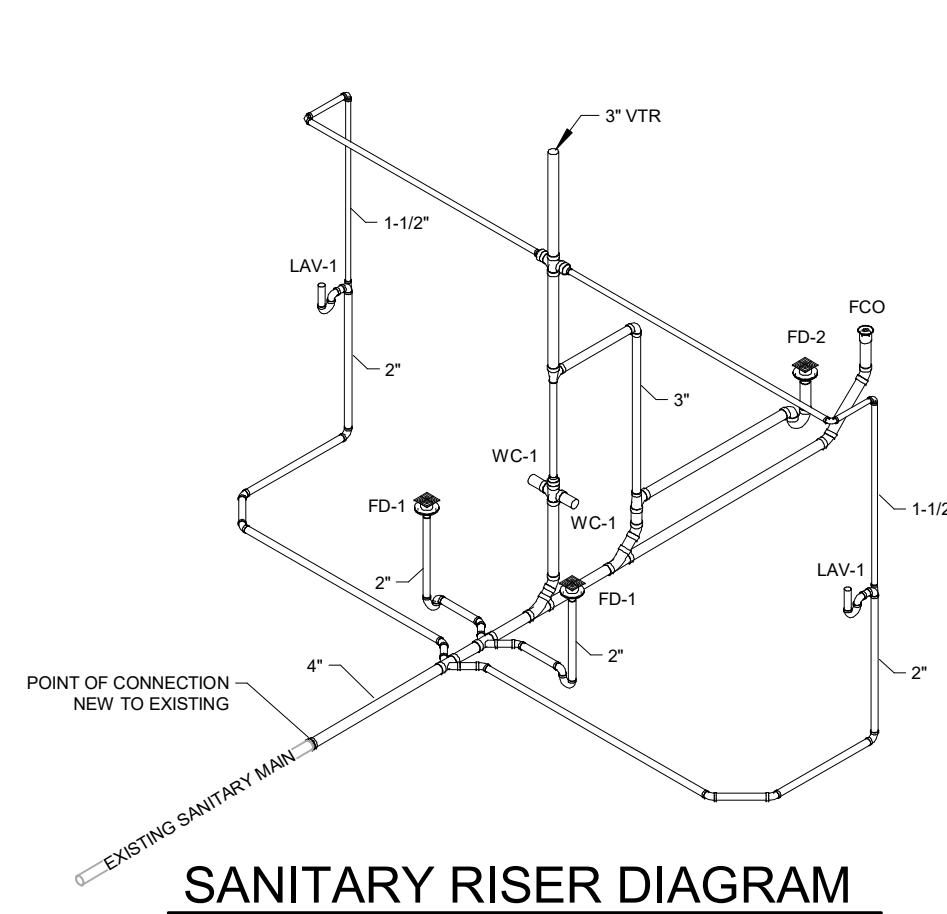
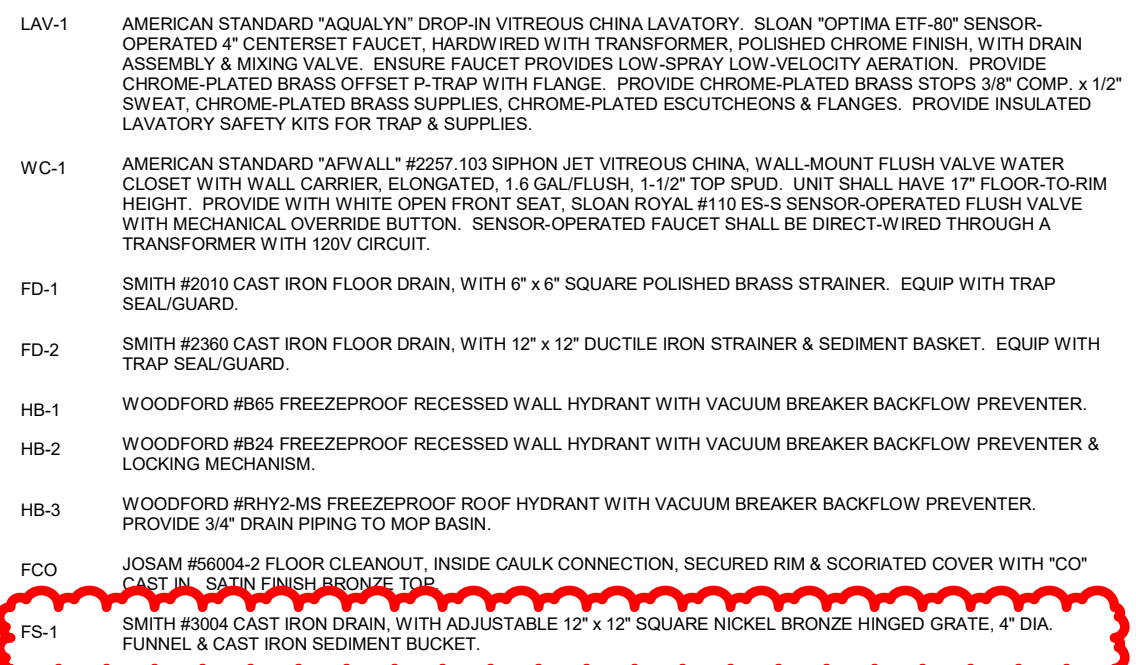
**GREEN ACTIVITIES CENTER
PARTIAL RENOVATIONS**

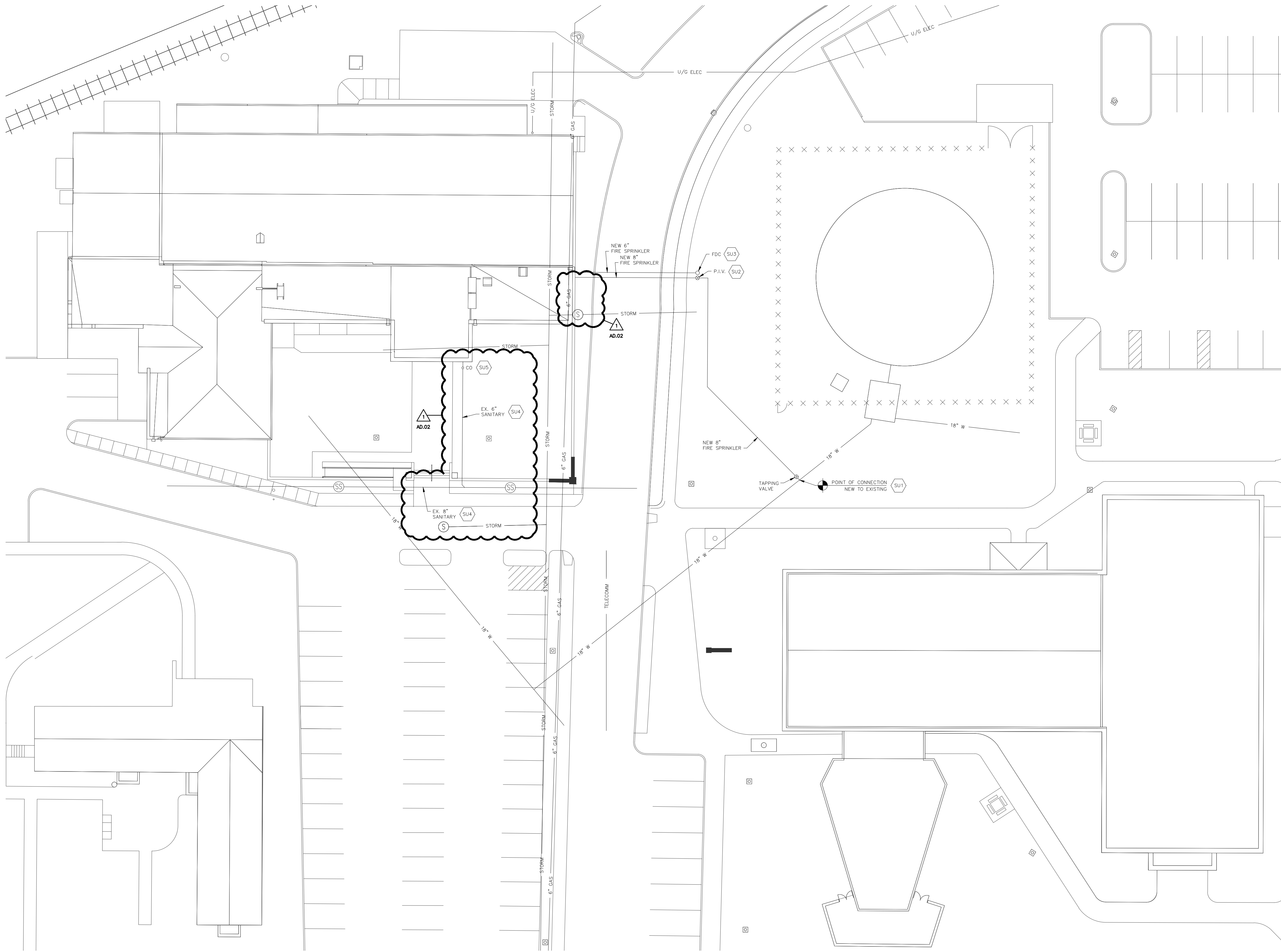
Project #: 71GA-22-01
VINCENNES CAMPUS

#	Revision	Date
AD. 02		2/17/2023

Date: 02-02-2023
Drawn By: NAB
Checked By: MJH

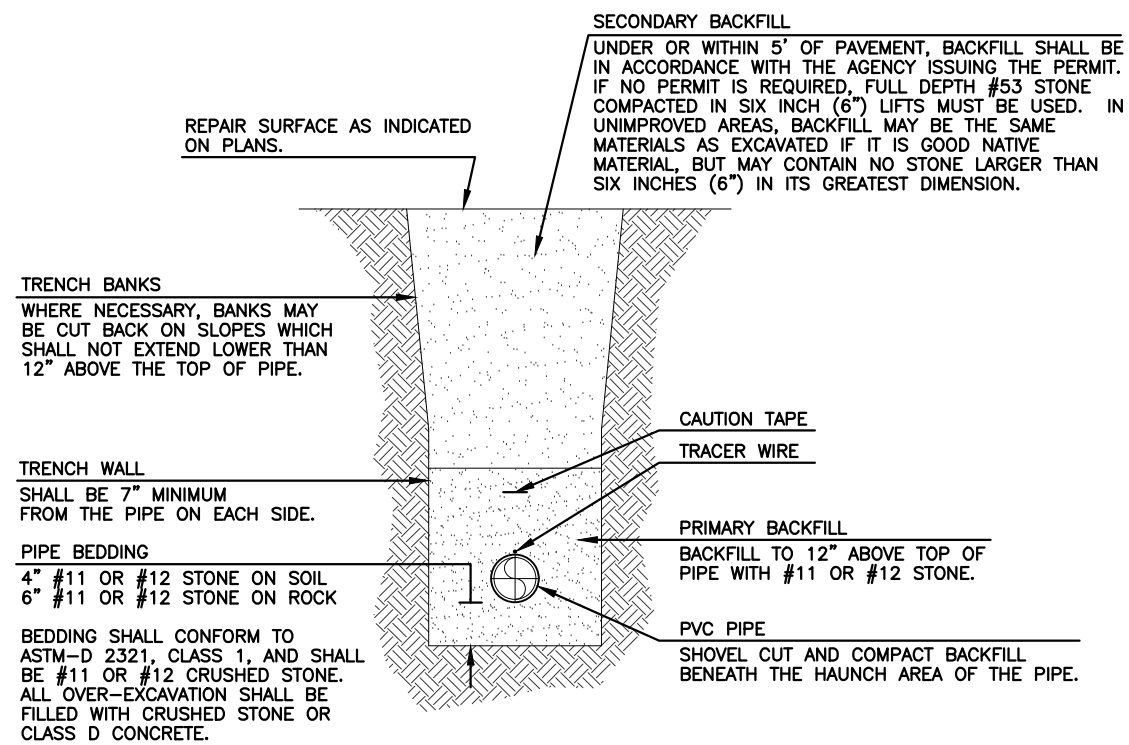
E4
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POWER/SYSTEMS
PLAN





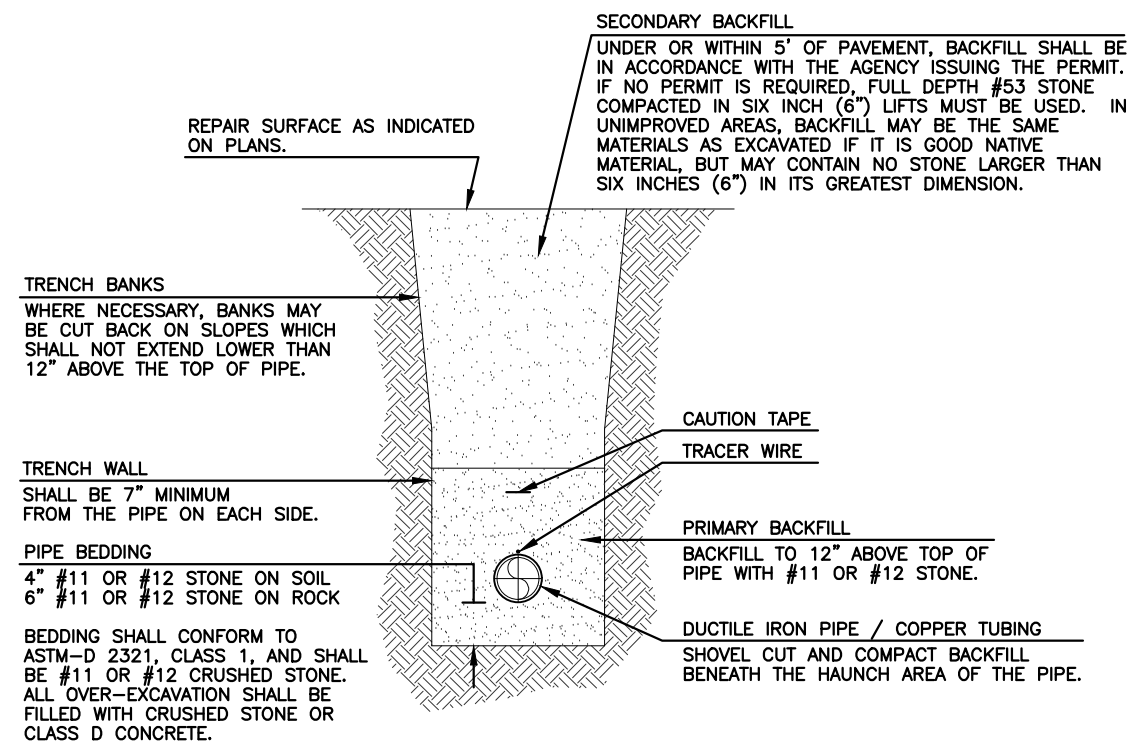
FIRE PROTECTION - SITE UTILITY PLAN

SCALE: 1"=30'-0"



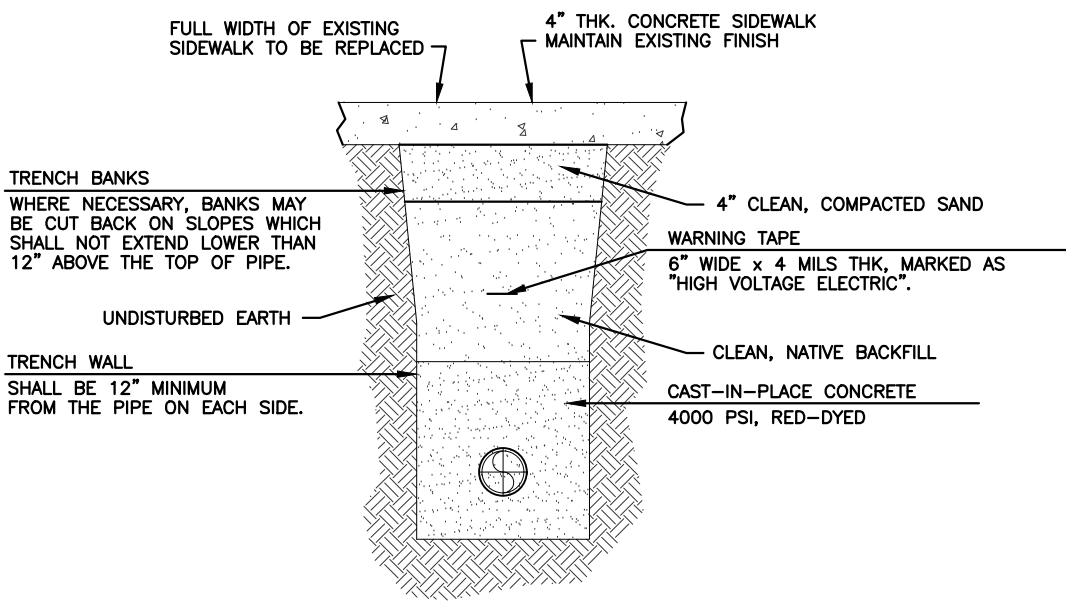
SANITARY / STORM PIPING TRENCH DETAIL

SCALE: N.T.S.
NOTE: ALL TRENCH WORK SHALL BE IN COMPLIANCE WITH OSHA PART 26 OF THE CODE OF FEDERAL REGULATIONS.
NOTE: WHEN PIPE GRADES ARE NOT DEFINED ON THE CONTRACT DRAWINGS, MAINTAIN A MINIMUM OF 48" OF COVER OVER THE TOP OF PIPE, EXCEPT AS OTHERWISE ORDERED BY THE ENGINEER.



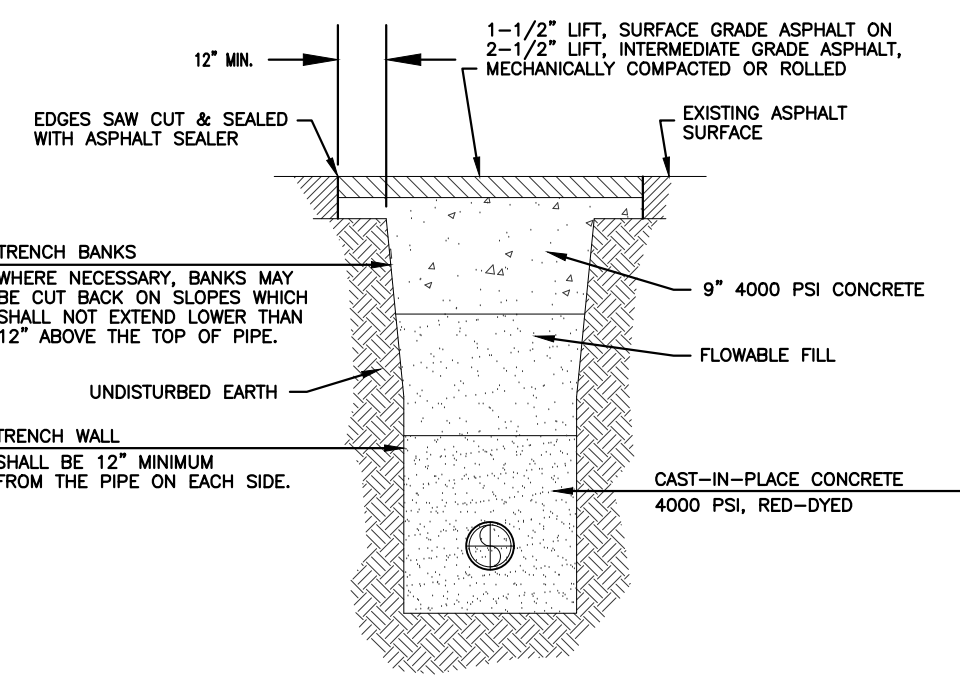
WATER LINE TRENCH DETAIL (RIGID PIPE)

SCALE: N.T.S.
NOTE: ALL TRENCH WORK SHALL BE IN COMPLIANCE WITH OSHA PART 26 OF THE CODE OF FEDERAL REGULATIONS.
NOTE: WHEN PIPE GRADES ARE NOT DEFINED ON THE CONTRACT DRAWINGS, MAINTAIN A MINIMUM OF 48" OF COVER OVER THE TOP OF PIPE, EXCEPT AS OTHERWISE ORDERED BY THE ENGINEER.



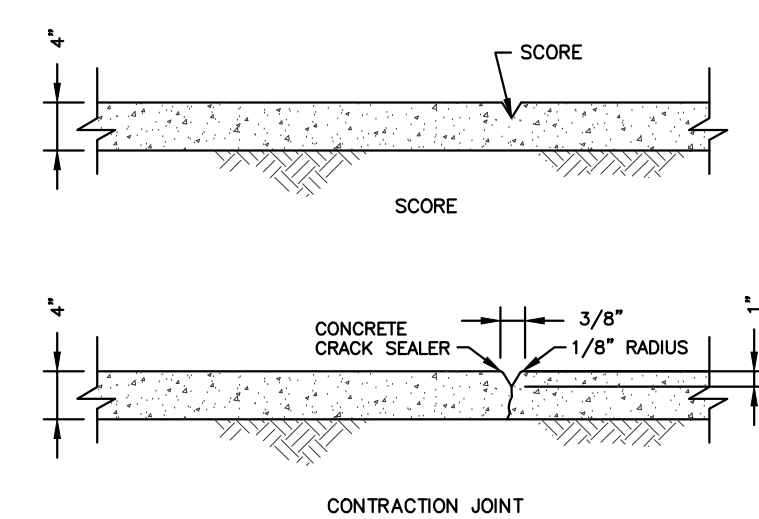
SIDEWALK CUT REPAIR DETAIL

SCALE: N.T.S.
NOTE: ALL TRENCH WORK SHALL BE IN COMPLIANCE WITH OSHA PART 26 OF THE CODE OF FEDERAL REGULATIONS.
NOTE: SIDEWALKS SHALL BE REMOVED TO THE NEAREST CONTROL OR EXPANSION JOINT.
NOTE: ALL CONCRETE SIDEWALK SHALL HAVE 6IN 1:4:1 W.W.F. INSTALLED.



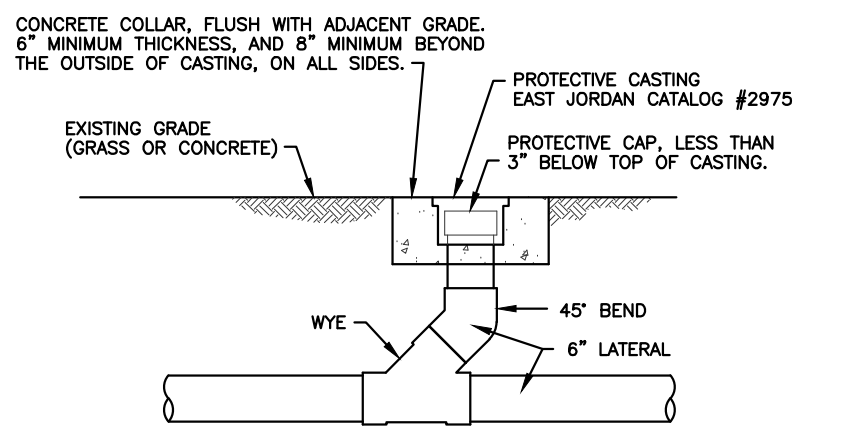
STREET/ALLEY CUT REPAIR DETAIL

SCALE: N.T.S.
NOTE: ALL TRENCH WORK SHALL BE IN COMPLIANCE WITH OSHA PART 26 OF THE CODE OF FEDERAL REGULATIONS.



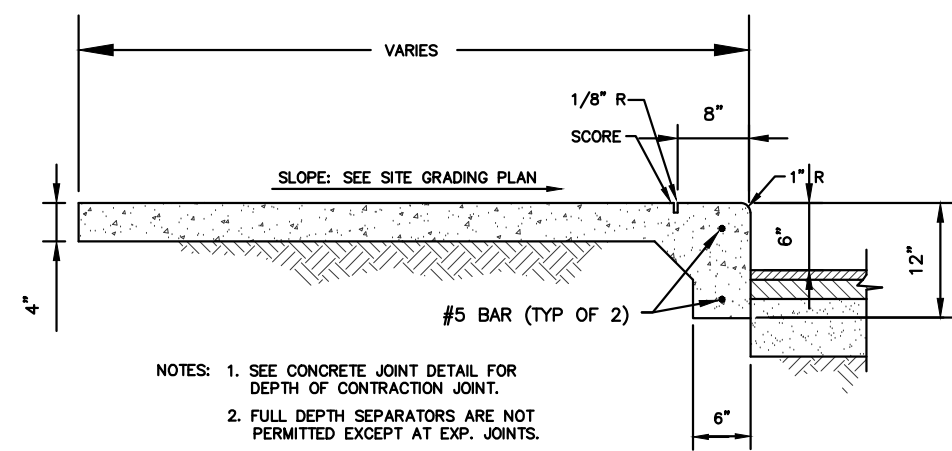
CONCRETE JOINT DETAILS

SCALE: N.T.S.
NOTE: ALL CONCRETE SIDEWALK SHALL HAVE 6IN 1:4:1 W.W.F. INSTALLED.
NOTE: CONCRETE RESTORATION LIMITS SHALL INCLUDE ENTIRE SECTION AND EXTEND TO NEAREST CLEAN JOINT IN CURBS, SIDEWALKS, ETC. NO PATCHING SHALL BE ALLOWED.



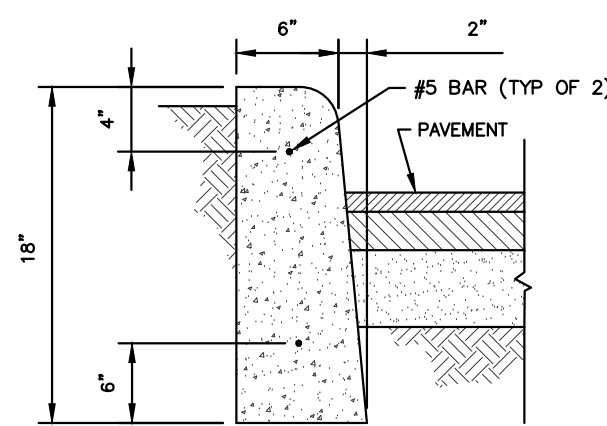
CLEANOUT DETAIL

SCALE: N.T.S.
NOTE: #10 SOLID INSULATED LOCATE WIRE REQUIRED FROM THE MAIN TO THE CLEANOUT AT THE BUILDING.



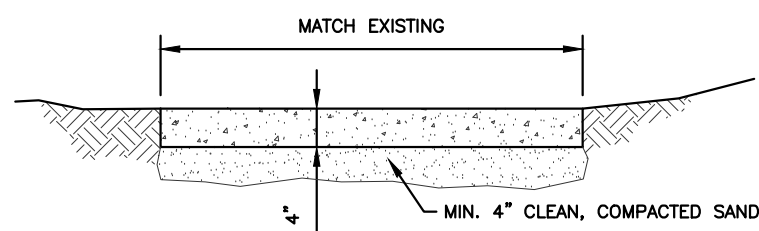
INTEGRAL SIDEWALK & CURB

SCALE: N.T.S.
NOTE: ALL CONCRETE SIDEWALK SHALL HAVE 6IN 1:4:1 W.W.F. INSTALLED.



CONCRETE STRAIGHT CURB

SCALE: N.T.S.



CONCRETE WALK

SCALE: N.T.S.
NOTE: ALL CONCRETE SIDEWALK SHALL HAVE 6IN 1:4:1 W.W.F. INSTALLED.

GENERAL SITE UTILITY NOTES

(D1) SITE & UTILITY CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO CONSTRUCTION, AND SHALL PERFORM A ONE-CALL TO LOCATE UNDERGROUND UTILITIES, PRIOR TO ANY EXCAVATION.

KEYED SITE UTILITY NOTES

(SU1) MECHANICAL CONTRACTOR SHALL PROVIDE FOR NEW 8" DUCTILE IRON, CLASS 350, WATER MAIN PIPING, INCLUDING COMPLETE INSTALLATION, TAP, & TESTING. EXISTING 18" WATER MAIN DEPTH IS UNKNOWN. CONTRACTOR TO BE ADVISED THAT EXISTING 18" WATER MAIN IS TRANSMIT. MECHANICAL CONTRACTOR SHALL PROVIDE FOR TAPPING SLEEVE & VALVE. MECHANICAL CONTRACTOR MUST CONTACT THE LOCAL WATER UTILITY TO INSPECT THE TAP. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW-CUTTING, EXCAVATION, INSTALLATION, BACKFILLING/COMPACTION, AND COMPLETE SURFACE RESTORATION. COORDINATE INSTALLATION WITH ALL TRADES, UTILITIES, & OWNER.

(SU2) MECHANICAL CONTRACTOR SHALL PROVIDE FOR 8" POST INDICATOR VALVE & TAMPER SWITCH, INCLUDING COMPLETE INSTALLATION & TESTING. MECHANICAL CONTRACTOR SHALL CONFIRM FINAL LOCATION WITH LOCAL FIRE DEPARTMENT. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW-CUTTING, EXCAVATION, INSTALLATION, BACKFILLING/COMPACTION, AND COMPLETE SURFACE RESTORATION. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR 1" PVC CONDUIT FOR FIRE ALARM CIRCUITRY TO TAMPER SWITCH. COORDINATE INSTALLATION WITH ALL TRADES, UTILITIES, & OWNER.

(SU3) MECHANICAL CONTRACTOR SHALL PROVIDE FOR NEW 6" DUCTILE IRON, CLASS 350, WATER MAIN PIPING, AND FIRE DEPARTMENT CONNECTION (FDC), INCLUDING COMPLETE INSTALLATION & TESTING. MECHANICAL CONTRACTOR SHALL CONFIRM FINAL LOCATION WITH LOCAL FIRE DEPARTMENT. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW-CUTTING, EXCAVATION, INSTALLATION, BACKFILLING/COMPACTION, AND COMPLETE SURFACE RESTORATION. ELECTRICAL CONTRACTOR SHALL PROVIDE FOR 1" PVC CONDUIT FOR FIRE ALARM CIRCUITRY TO TAMPER SWITCH. COORDINATE INSTALLATION WITH ALL TRADES, UTILITIES, & OWNER.

(SU4) MECHANICAL CONTRACTOR SHALL PROVIDE FOR WATER JETTING OF EXISTING 6" SANITARY DRAIN LEAVING BUILDING, AND EXISTING 8" SANITARY DRAIN BETWEEN MANHOLES, AS SHOWN. UPON COMPLETION OF WATER JETTING, MECHANICAL CONTRACTOR SHALL PROVIDE FOR CAMERA INSPECTION OF BOTH SEGMENTS. COORDINATE INSTALLATION WITH ALL TRADES, UTILITIES, & OWNER.

(SU5) MECHANICAL CONTRACTOR SHALL PROVIDE FOR NEW YARD CLEANOUT, AS DETAILED. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW-CUTTING, EXCAVATION, INSTALLATION, AND BACKFILLING/COMPACTION, AND COMPLETE SURFACE RESTORATION, UTILIZING AN OWNER-APPROVED 300 WIR. COORDINATE INSTALLATION WITH ALL TRADES, UTILITIES, & OWNER.

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