Drawing Index									
SHEET #	SHEET NAME								
G1.0	COVER SHEET								
CHANICAL									
M1.0	MECHANICAL LEGEND								
M2.0	MECHANICAL ROOM PLAN								
M3.0	MECHANICAL SCHEMATICS								
M4.0	MECHANICAL DETAILS								
ECTRICAL									
E1.0	ELECTRICAL LEGEND								
E2.0	MECHANICAL ROOM - ELECTRICAL - POWER PLAN								

GENERAL INFORMATION

GOVERNING REGULATIONS

ENTUCKY BUILDING CODE2018	
NTERNATIONAL MECHANICAL CODE2015	
NTERNATIONAL ENERGY CONSERVATION CODE2012	
ZENTUCKY PLUMBING CODE2020	
NATIONAL ELECTRICAL CODE NFPA 702014	
SPRINKLER SYSTEMS NFPA 132010	

PROJECT DESCRIPTION

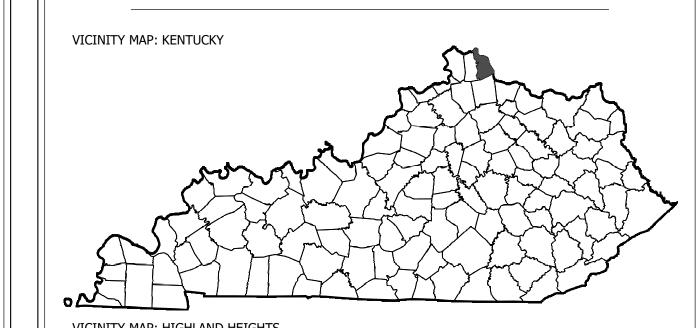
THIS PROJECT CONSISTS OF THE RELOCATION OF STEAM TO HOT WATER HEAT EXCHANGER AND CONDENSATE PUMP, REPLACEMENT OF TWO STEAM CONTROL VALVES, REMOVAL OF A STEAM HOT WATER HEATER, AND THE DISCONNECT AND ABANDONMENT OF AN AIR COMPRESSOR.

GENERAL NOTES

- THE CURRENT CONTRACT IS TO BE MANAGED BY A GENERAL CONTRACTOR.
 REFER TO GENERAL AND SPECIAL CONDITIONS FOR WORKING HOURS,
 SCHEDULE, PARKING, SHIPPING AND RECEIVING, AND ADDITIONAL
- REQUIREMENTS.

 2. ALL WORK SHALL CONFORM TO NORTHERN KENTUCKY UNIVERSITY STANDAR THE CONTRACTOR IS TO REVIEW STANDARDS AS LISTED AT https://inside.nku.edu/campusplanning/design-standards.html AND INCLUDE AL WORK REQUIRED FOR CONFORMANCE WITHIN THE BID.

PROJECT LOCATION







ALBRIGHT HALL CONDENSATE PUMP AND HX RELOCATION

NORTHEN KENTUCKY UNIVERSITY KENTON DRIVE, HIGHLAND HEIGHTS, KY 41099

CONSTRUCTION DOCUMENTS

3/30/21

CLIENT PROJECT #: NKU-35-2021
NKU PROJECT MANAGER: BOB FOX



BUILDING SCIENCE LEADERSHIP

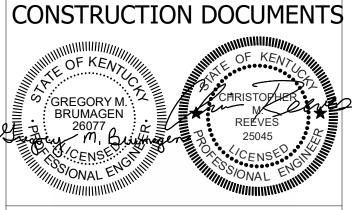
CMTA Project Manager: Chris Reeves (creeves@cmta.com)

2429 Members Way Lexington, KY 40504 T: 859 253.0892 F: 859 231.8357



2429 Members Way Lexington, KY 40504 T: 859 253.0892 F: 859 231.8357

VICTOLICTION DOCUM





RTHEN KENTUCKY UNIVERSIT FON DRIVE, HIGHLAND HEIGHTS, KY 410

CLIENT JOB #: NKU-19-0016

DATE: 3/29/21

DRAWN: SLS

CHECKED: CMR

G1.0

MECHANICAL GENERAL NOTES

- A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- B THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES,
- THE MOST STRINGENT REQUIREMENT SHALL APPLY.

 C WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- D ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- E COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.

 F PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- G OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)

 H CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION

THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE

- I WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
- FIRE PROOFING WITH NO INTERFERENCE.

 J ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- K ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
- L INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS.
 USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.
 M LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND
- SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.

 N ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE
- ADDITIONAL OFFSETS WHERE NECESSARY.

 O COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
- P INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
- Q SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
- R ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.
- S THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.

 T WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND

EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE

- DOCUMENTS.

 U ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE
- V DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- W VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

X WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

MECHANICAL DEMOLITION NOTES

- A HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- B COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.
- C ALL OUTAGES SHALL BE SCHEDULED THROUGH THE NKU PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.

MECHANICAL PHASING NOTES

A THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BEAR ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

MECHANICAL HAZARDOUS MATERIALS NOTES

- A THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUNDS THEREFROM UNTIL ITS CONTENT CAN BE
- ASCERTAINED TO BE NON-HAZARDOUS.

 B CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE
- REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.

 C IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.
- D THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
- E THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

AC	ALTERNATING CURRENT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	
	AIR PRESSURE DROP AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND
ASHRAE	AIR-CONDITIONING ENGINEERS
ATU	AIR TERMINAL UNIT
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
C.I.	CAST IRON
CLG	CEILING
CLR	CLEAR
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COND	CONDENS (-ER, -ING, -ATION, -ATE)
CONT	CONTINU (-ED, -OUS)
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	VALVE FLOW COEFFICIENT
dB	DECIBEL
DB	DRY BULB
DBT	DRY BULB TEMPERATURE
DC	DIRECT CURRENT
DD	DUCT SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE (-S)
DIA	DIAMETER (-S)
DN	DOWN
	DRAWING
DWG	
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVA (-TION, -TOR)
ENGR	ENGINEER
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (-E, -ING, -ED, -OR, -ION)
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
	-

FD	FIRE DAMPER
FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET OR FOOT
FUT	FUTURE
FV	FACE VELOCITY
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
Н	HUMIDITY
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	H (-ORSEPOWER, -EAT PUMP)
HR	HOUR (-S)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
Hz	HERTZ
ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INSUL	INSULAT (-ED, -ION)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
kW	KILOWATT
kWh	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET/FOOT
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR [THOUSANDS]
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS MAYIMUM OVERCURRENT PROTECTION [AMDS]
MOCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA OR NORMALLY CLOSED
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU

NO	
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -MENSION)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECEPTACLE
OZ	OUNCE (-S)
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE [ELECTRICAL]
PLBG	PLUMBING
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PPSI GAUGE
RH	RELATIVE HUMIDITY [%]
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SQ	SQUARE
SQ FT	SQUARE FEET OR FOOT
SQ IN	SQUARE INCH OR INCHES
TAB	TESTING AND BALANCING
TBD 	TO BE DETERMINED
TE	TOP ELEVATION
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (-AGE, -S)
VAR	VARI (-ABLE, -IES)
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FEQUENCY DRIVE
W	WATT (-AGE, -S)
WB	WET BULB
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WT	WEIGHT
W/	WITH
 W/O	WITHOUT
%	PERCENT
ΔP	DIFFERENTIAL PRESSURE
ΔΤ	TEMPERATURE DIFFERENCE

	MECHANIC	CAL PIPING LEGEND
	o	PIPE ELBOW TURNING UP
		PIPE ELBOW TURNING DOWN
		PIPE TEE; CONNECTION ON TOP
		PIPE TEE; CONNECTION ON BOTTOM
		PIPE CAP
	—_CD—_	CONDENSATE DRAIN
	—CHWS/R—	CHILLED WATER SUPPLY/RETURN
	—CWS/R—	CONDENSER WATER SUPPLY/RETURN
	—DTS/R—	DUAL TEMP. WATER SUPPLY/RETURN
	——HPC	HIGH PRESSURE STEAM CONDENSATE
	—HPS(#)—	HIGH PRESSURE STEAM; (#) DENOTES PRESSURE
	—HWS/R—	HEATING WATER SUPPLY/RETURN
	LPC	LOW PRESSURE STEAM CONDENSATE
	—LPS(#)—	LOW PRESSURE STEAM; (#) DENOTES PRESSURE
	—DCW—	DOMESTIC COLD WATER
	—DHW—	DOMESTIC HOT WATER
	SPD	STEAM CONDENSATE PUMPED DISCHARGE
	SVT	STEAM VENT PIPING
	D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
	—E(XXX)—	EXISTING PIPING - (XXX) DENOTES SYSTEM
	—A(XXX)—	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
	\\$	TWO-WAY CONTROL VALVE
		THREE-WAY CONTROL VALVE
	φ	AUTOMATIC AIR VENT (AAV)
	<u></u>	MANUAL AIR VENT (MAV)
	$\overline{\hspace{1cm}}$	MANUAL BALANCING VALVE (BV)
	—б—	BALL VALVE
		GATE VALVE
	─ ₩─	TRIPLE DUTY VALVE (TDV)
	- -	STRAINER
	\longrightarrow	MANUAL ISOLATION VALVE
	X	GLOBE VALVE
		OS&Y (GATE) VALVE
	\X	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	<u> </u>	AUTO-FLOW CONTROL VALVE
		CHECK VALVE
	<u> </u>	DOUBLE CHECK VALVE ASSEMBLY
		FLEXIBLE PIPE CONNECTION
		FLOW METER (VENTURI)
		PIPING UNION
	Fs	FLOW SWITCH
	Ps	PRESSURE SWTICH
	Trs	TAMPER SWITCH
	<u>_</u>	THERMOMETER
	T	PETE'S PLUG; TEMPERATURE/PRESSURE PORT
		STEAM TRAP
<u>-</u>	GENERAL S	
	<u>⟨#</u> ⟩	TAGGED NOTE DESIGNATOR
	///	REVISION TRIANGLE

REVISION TRIANGLE

EQUIPMENT TAG

POINT OF DEMOLITION

POINT OF CONNECTION / CONNECT TO EXISTING

ROOM TAG

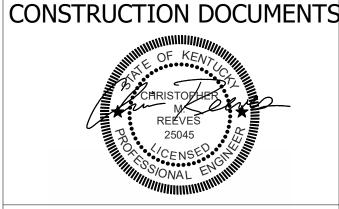
TAG XXX-#

INSTANCE XXXX

APPLICABLE BUILDING	CODES	
APPLICABLE BUILDING CODES	DOCUMENT	YEAR
ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	ANSI A117.1	2009
FIRE SPRINKLER CODE	NFPA 13	2013
INTERNATIONAL BUILDING CODE (IBC)	STATE EDITION	2018
INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	STATE EDITION	2012
INTERNATIONAL FIRE CODE (IFC)	STATE EDITION	2015
INTERNATIONAL FUEL GAS CODE (IFGC)	STATE EDITION	2015
INTERNATIONAL MECHANICAL CODE (IMC)	STATE EDITION	2015
INTERNATIONAL PLUMBING CODE (IPC)	STATE EDITION	2020
INTERNATIONAL EXISTING BUILDING CODE (IEBC)	STATE EDITION	2009
NATIONAL ELECTRIC CODE (NEC)	NFPA 70	2017
NATIONAL FIRE ALARM & SIGNALING CODE	NFPA 72	2013
UNIFORM STATEWIDE BUILDING CODE		2018



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HALL CONDENSATE PUMP AND HX RELC NORTHEN KENTUCKY UNIVERSITY KENTON DRIVE, HIGHLAND HEIGHTS, KY 41099

CLIENT JOB #: NKU-19-0016

DATE: 3/29/21

DRAWN: SLS

CHECKED: CMR

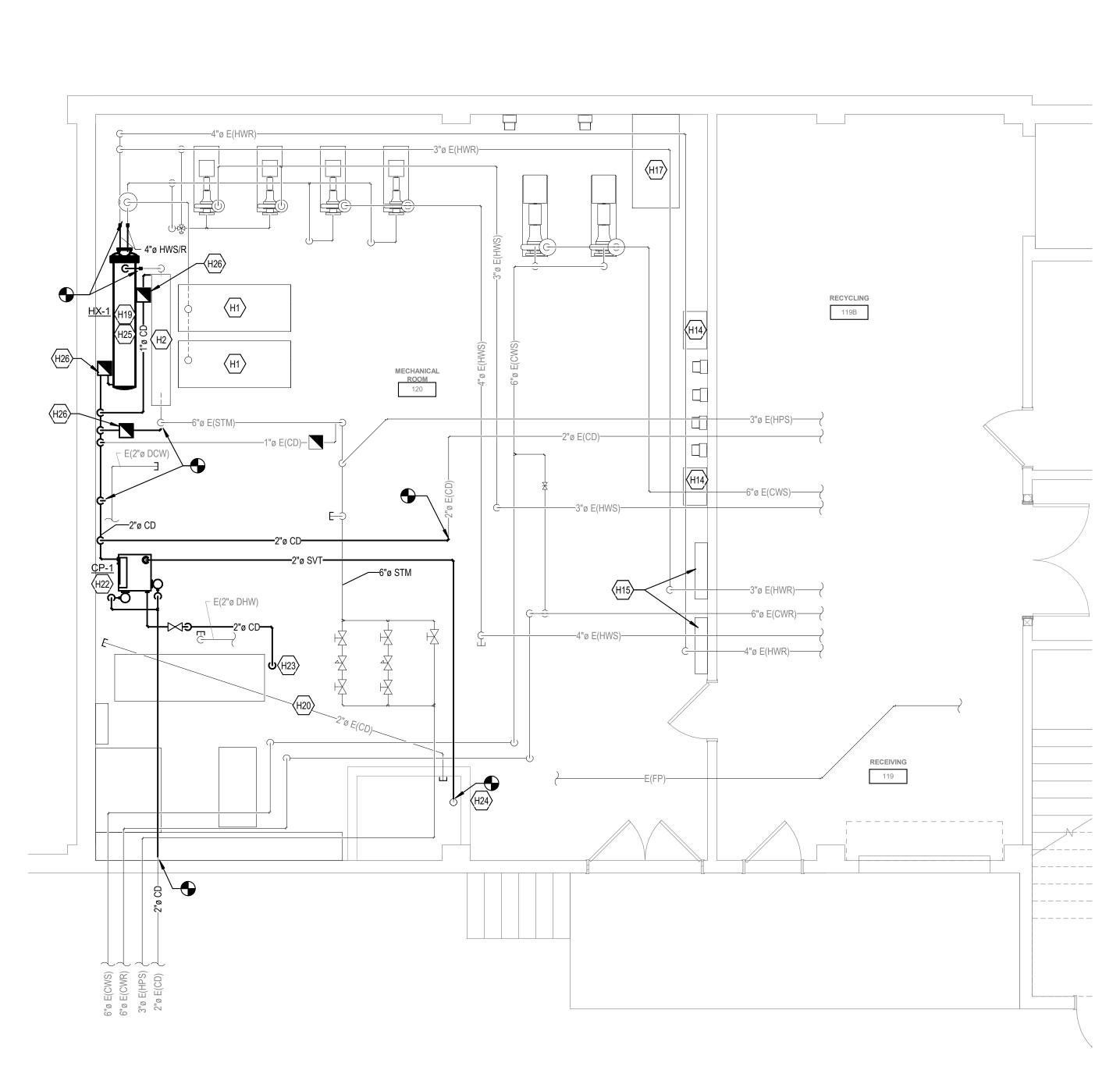
REVISIONS

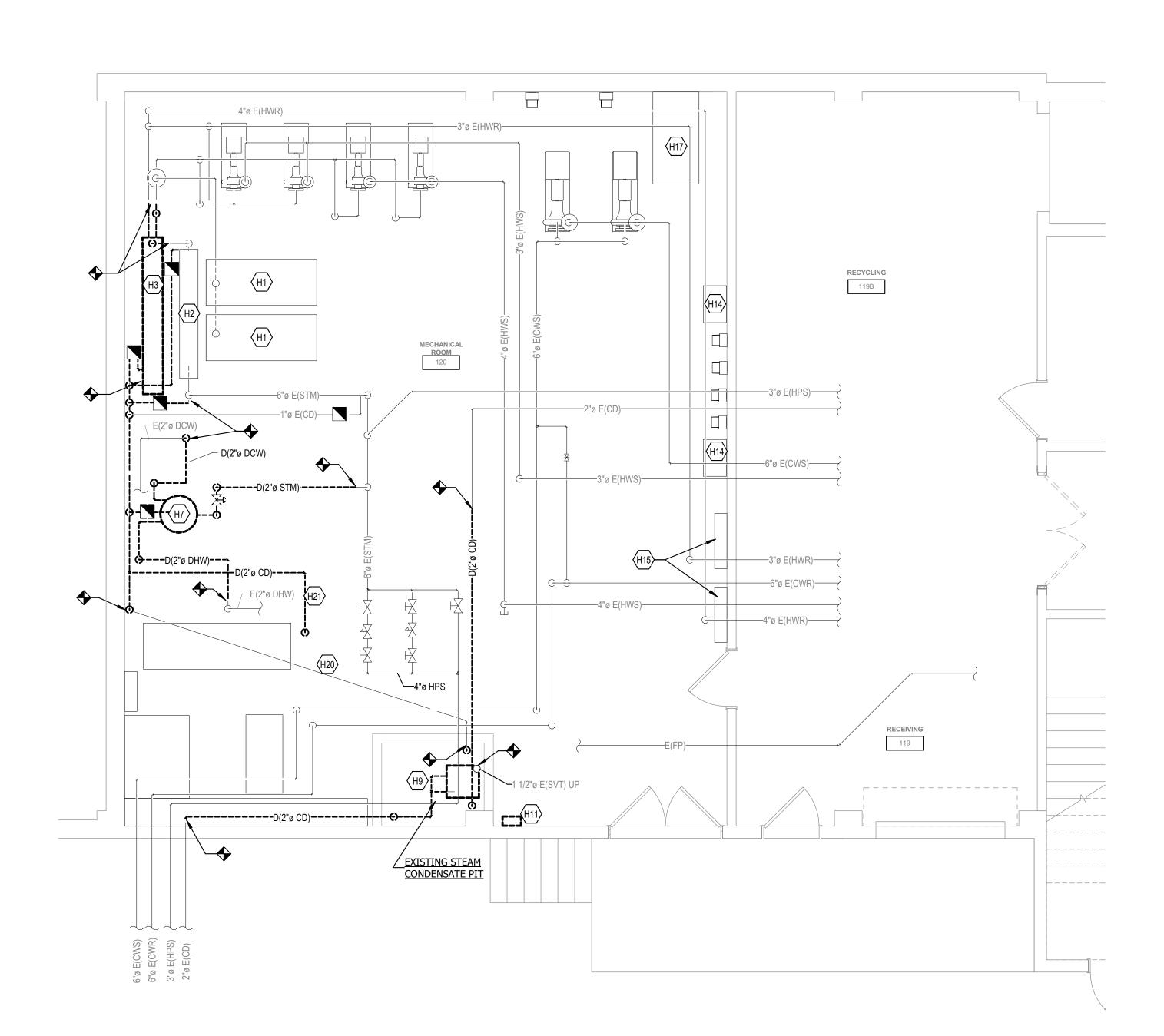
M1.0

TAGGED NOTES

- H1 EXISTING 30"ø X 90" HOT WATER EXPANSION TANKS LOCATED IN
- STRUCTURE TO REMAIN. H2 EXISTING STEAM PRESSURE REDUCING STATION TO REMAIN. REFER TO PIPING SCHEMATIC ON SHEET M3.0. CONTROL VALVES TO BE
- H3 HEAT EXCHANGER SHALL BE RAISED TO ALLOW CONDENSATE TO DRAIN TO NEW CONDENSATE PUMP. AS AN ALTERNATE BID, THE HEAT EXCHANGER SHALL BE REPLACED.
- H7 DEMOLISH EXISTING STEAM FIRED WATER HEATER, CONTROLS, VALVES, AND RELATED PIPING. REMOVE PIPING BACK TO MAIN AND
- H9 DEMOLISH EXISTING STEAM CONDENSATE RETURN PUMP, CONTROLS, VALVES AND RELATED PIPING LOCATED IN PIT. EXISTING VENT UP TO REMAIN AND SHALL BE RECONNECTED TO NEW
- CONDENSATE PUMP VENT PIPING. H11 EXISTING CONTROL CABINET TO BE DEMOLISHED.
- H14 EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
- H15 EXISTING TEMPERATURE CONTROL PANEL TO REMAIN. H17 EXISTING AIR COMPRESSOR SHALL BE DISCONNECTED AND ABANDONED IN PLACE. H19 NEW HEAT EXCHANGER ELEVATION TO BE RAISED 3 FEET FROM
- EXISTING EXCHANGER LOCATION. PROVIDE NECESSARY SUPPORT STRUCTURE. FIELD VERIFY FINAL ELEVATION.
- H20 EXISTING 2" CONDENSATE DRAIN RUNS UNDER SLAB TO CONDENSATE PUMP PIT. DISCONNECT BOTH ENDS WHERE ACCESSIBLE AND CAP. PIPE SHALL BE ABANDONED IN PLACE.
- H21 DEMOLISH EXISTING CONDENSATE DRAIN SPILLING TO FLOOR DRAIN. H22 NEW CONDENSATE RECEIVER TANK, PUMP, AND CONTROL PANEL.
- RECONNECT CONDENSATE PIPING TO ENSURE FUNCTIONALITY. H23 CONDENSATE TO FLOOR DRAIN. DRAIN VALVE SHALL NORMALLY BE
- H24 RECONNECT VENT FROM NEW CONDENSATE RECEIVER TANK TO EXISTING VENT PIPE.
- H25 NEW HEAT EXCHANGER, TO BE BID AS AN ALTERNATE, PIPING AND VALVES TO MOUNT NEW SUPPORT STRUCTURE. CMTA TO PROVIDE
- H26 EXISTING CONDENSATE TRAPS TO BE RAISED. PIPE LPC TO CONDENSATE RECEIVER.

HEAT EXCHANGER.





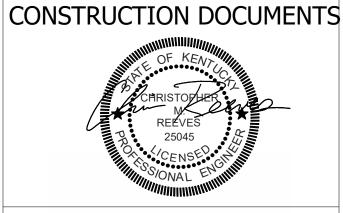
MECHANICAL ROOM DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8' 12' 16'



2429 Members Way Lexington, KY 40504 T: 859 253.0892 F: 859 231.8357



CLIENT JOB #: NKU-19-0016 3/29/21 DRAWN:

REVISIONS

CHECKED:

M2.0

SLS

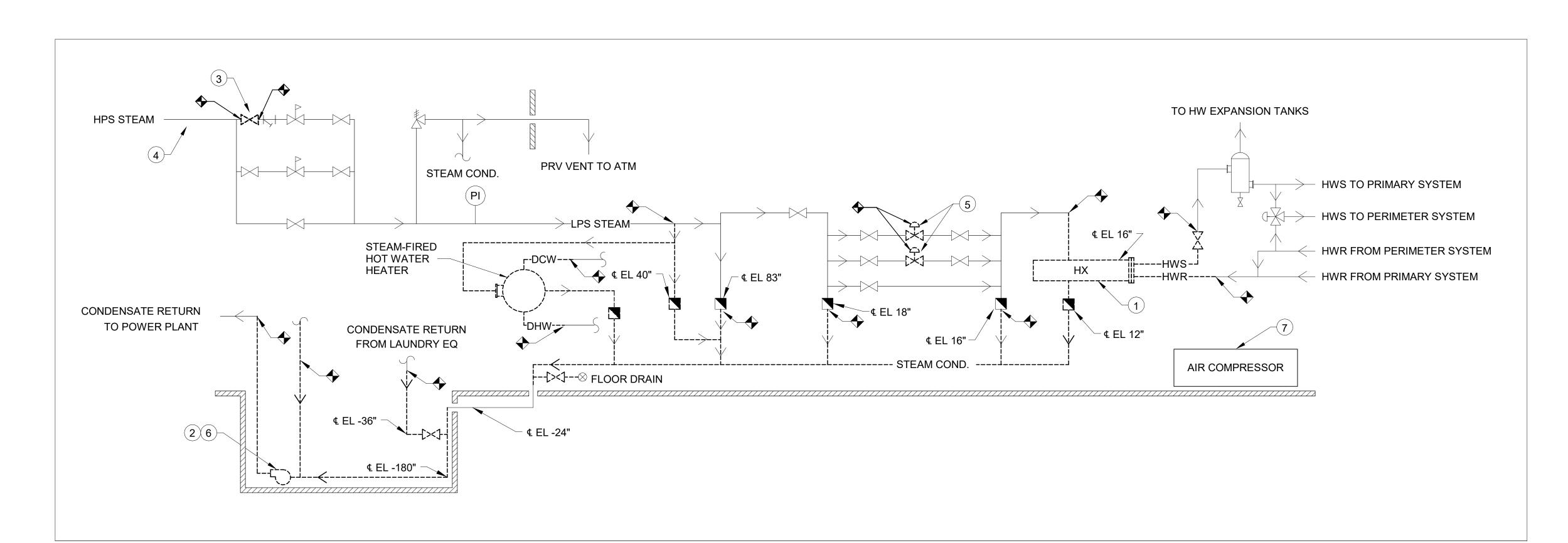
CHECKED:

DRAWN:

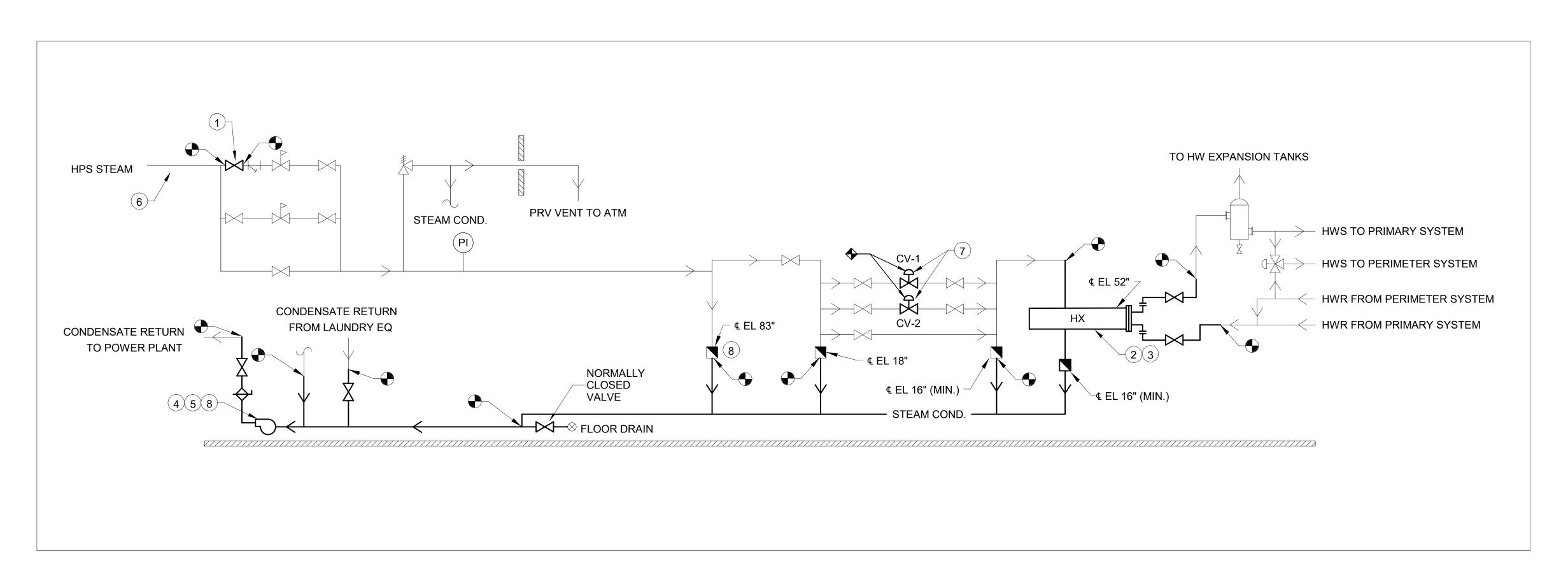
CONDENS

REVISIONS

M3.0



STEAM & CONDENSATE MODIFICATIONS - DEMOLITION
SCALE: NONE



STEAM & CONDENSATE MODIFICATIONS - NEW WORK

SCALE: NONE

 NEW HEAT EXCHANGER ELEVATION TO BE RAISED 3 FEET FROM EXISTING EXCHANGER LOCATION. FIELD VERIFY FINAL ELEVATION. PROVIDE NECESSARY SUPPORT STRUCTURE.

INSULATE ALL NEW PIPING AND EQUIPMENT TO MATCH EXISTING STANDARDS. TYPICAL.

6. ISOLATE BUILDING STEAM SYSTEM AT REGENTS HALL ISOLATION VALVE DURING DEMOLITION AND CONSTRUCTION WORK.

MECHANICAL TAGGED NOTES

1. REPLACE LEAKING ISOLATION VALVE.

4. NEW CONDENSATE PUMP TO BE INSTALLED AT GROUND LEVEL.

8. THIS STEAM TRAP MAY REMAIN AT THIS ELEVATION.

NEW HEAT EXCHANGER, TO BE BID AS AN ALTERNATE AND TO BE PROVIDED BY CMTA.

7. NEW ELECTRONICALLY CONTROLLED VALVES TIED TO THE THE BUILDING MANAGEMENT SYSTEM.

ELECTRICAL DEMO NOTES 6. RE-ROUTE EXISTING CONDUIT TO NEW PUMP LOCATION. 7. DISCONNECT POWER FROM AIR COMPRESSOR. DEMO POWER BACK

MECHANICAL DEMO NOTES

LEVEL. DEMO PIPING AS REQUIRED.

3. REPLACE LEAKING ISOLATION VALVE.

REPLACE PNEUMATIC VALVES.

TO PANEL.

AND REPLACED WITH A NEW HEAT EXCHANGER.

1. SEE ALTERNATE. EXISTING HEAT EXCHANGER TO BE REMOVED

2. CONDENSATE PUMP TO BE REPLACED WITH NEW PUMP AT GROUND

4. ISOLATE BUILDING STEAM SYSTEM AT REGENTS HALL ISOLATION VALVE DURING DEMOLITION AND CONSTRUCTION WORK.

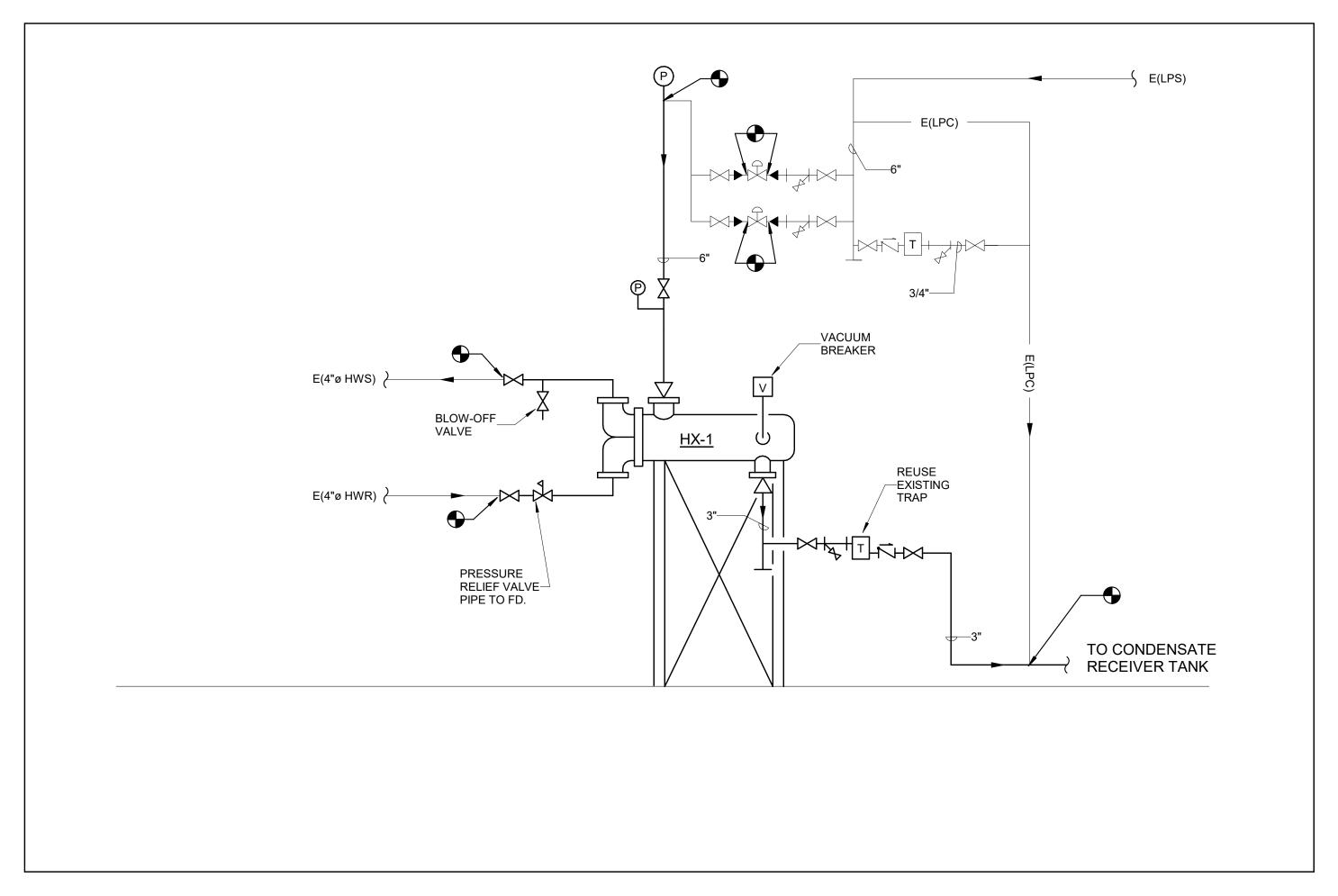
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CHECKED:

REVISIONS

M4.0





CONDENSATE PUMP AND RECEIVER												
					PU	MPS						
					DISCHARGE					RECEIVER		
MARK	MANUFACTURER	MODEL#	MODEL#	GPM	PRESSURE (PSI)	HP	RPM	PHASE	VOLTAGE	CAPACITY (GALS)	INLET SIZE	REMARKS
CP-1	BELL & GOSSETT	223CC DUPLEX	616PF	22	30.00	1.5	3500	3	460 V	23.0	2"	ALL

REMARKS:

1. ACCEPTABLE MANUFACTURERS INCLUDE HOFFMAN, ARMSTRONG.

2. SINGLE POINT POWER CONNECTION.

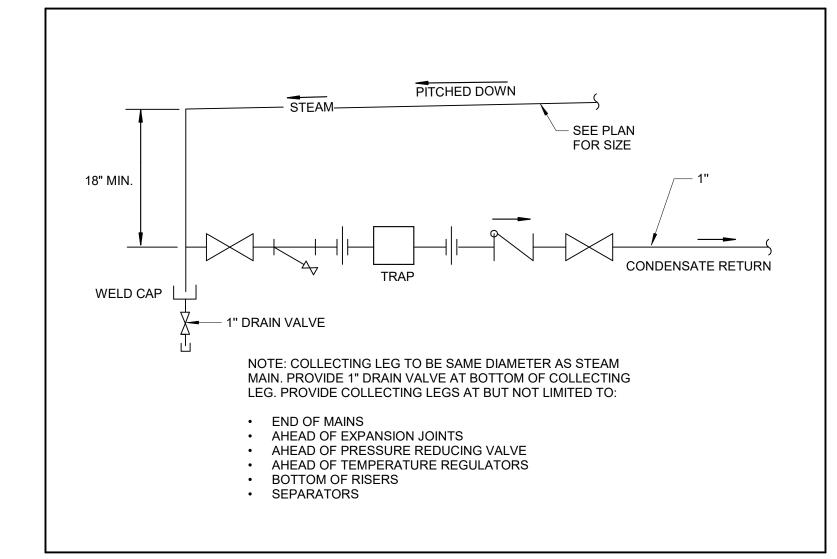
	STEAM CONTROL VALVE SCHEDULE												
MARK	MANUFACTURER	MODEL	ACTUATOR	TYPE	VALVE ACTION	SERVICE	SIZE	CAPACITY (LB/HR)	STEAM INLET PRESSURE	ACTUAL PRESSURE DROP (PSI)	PRESSURE PILOT	SPRING RANGE	REMARKS
CV-1	SCHNEIDER ELECTRIC	VS-8223-596-5-14	MS61-7203	2-WAY STRAIGHT	FAILS NORMALLY CLOSED	HEAT EXCHANGER	4"	3600	15	4.01	YES	2-10 VDC ; 4-20 mA	
CV-2	SCHNEIDER ELECTRIC	VS-8223-596-5-12	MS61-7203	2-WAY STRAIGHT	FAILS NORMALLY CLOSED	HEAT EXCHANGER	2-1/2"	1800	15	6.71	YES	2-10 VDC ; 4-20 mA	

SHELL & TUBE HEAT EXCHANGER																
								TOTAL HEATING		SHELL (STEAM)			TUBE (WATER	₹)		
MARK	MANUFACTURER	MODEL#	TYPE	SERVICE	DIAMETER (IN)	LENGTH (IN)	PASSES	(MBU)	LBS/HR	ENTERING PRESS. (PSI)	GPM	P.D. (FT)	EWT (°F)	LWT (°F)	FOULING FACTOR	REMARKS
HX-1	BELL & GOSSETT	QSU-147-2	SHELL & TUBE	BUILDING HOT WATER	14	93	2	5.4	5548	2	220	6.50	140	180	0.0005	ALL

1. ACCEPTABLE MANUFACTURERS INCLUDE TACO, ARMSTRONG.

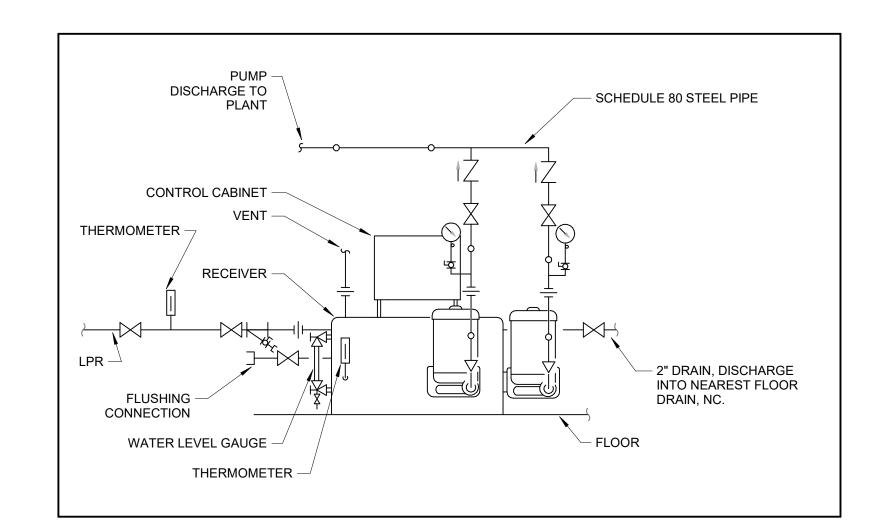
K-HEADER ARRANGEMENT.
 COPPER TUBES.

	CONTROLS	POINT	S LIST			
Point Description	Object Name	DI	DO	Al	AO	Override
Low Pressure Steam Pressure	LPSTM-P				Х	
Low Pressure Steam - Valve - 1/3	LPSTM-VLV-1				Х	X
Low Pressure - Valve - 2/3	LPSTM-VLV-2				Х	X
Condensate Pump CP-1A Status	CNDP-1A-S	X				
Condensate Pump CP-1B Status	CNDP-1B-S	X				
Condensate Flow Meter	CNDP-F				Х	
Condensate Pump Status Alarm	CNDP-AL		X			
High Level Alarm	COND-A		X			



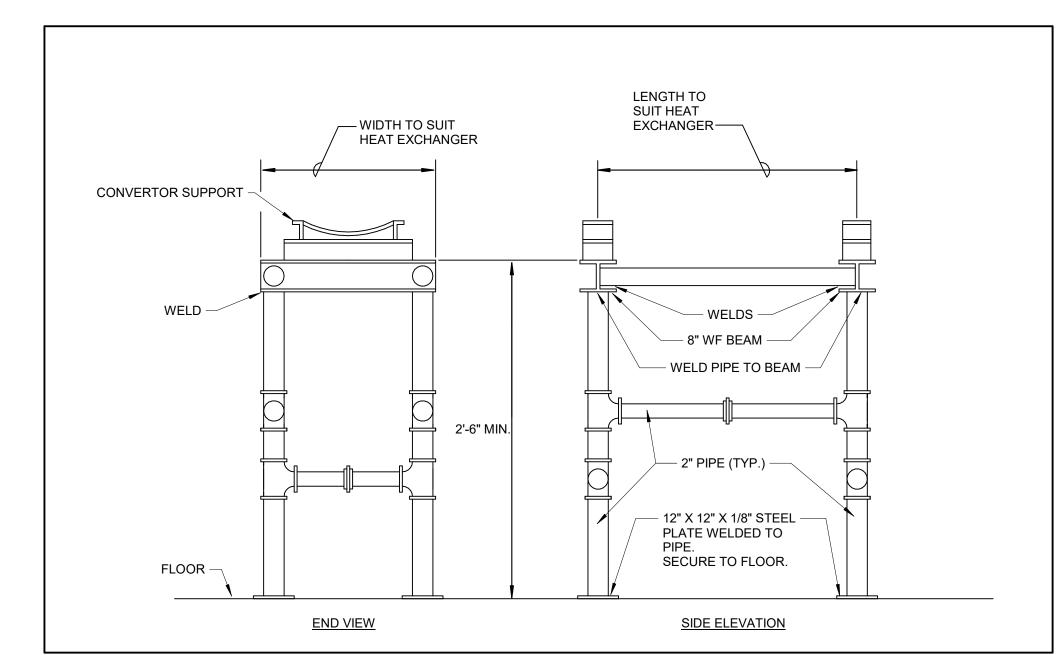
TYPICAL STEAM END OF MAIN DRIP LEG DETAIL

SCALE: NONE



CONDENSATE PUMP - PIPING CONNECTIONS SCHEMATIC

SCALE: NONE



H.W. HEAT EXCHANGER SUPPORT DETAIL

SCALE: NONE

ELECTRICAL GENERAL NOTES

OF WORK RESIDES WITH THE ENGINEER

LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC.

- A EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
- B ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT
- D CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND
- STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION. E ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL
- ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION. F INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.
- G ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW
- CLARIFICATION BY WRITTEN ADDENDUM. H WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL
- APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING. I DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN
- WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE. J OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY,
- LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.). K MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UON. MOUNTING
- HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UON. L INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN
- M DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION

CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR

- SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY. N THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL,
- SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE. O ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY
- P ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED. O UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE
- NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT. R WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL
- SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT. S THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY
- COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.). T COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL
- RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC. U CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF
- 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION. V ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR
- REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- W CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE. X PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT
- Y DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- Z THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY
- WHO ENGAGED THEM ON THIS PROJECT. AA WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.
- AB WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.
- AC COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- AD ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.
- AE ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.
- AF NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.
- AG ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- AH ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT
- AI WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.
- AJ REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT, CONTACT ENGINEER FOR DIRECTION PRIOR TO ROUGH IN.
- AK FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK. AL AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND
- WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE. AM THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING
- SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK. AN ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT,
- CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK. AO INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE
- OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
- AP WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM. AQ JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH
- BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. AR ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY
- CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY. AS DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
- AT NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.
- AU ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.
- AV REFER TO ARCHITECTURAL PLANS FOR PHASING REQUIREMENTS. WORK SHALL BE COMPLETED IN PHASES PER THE PHASING PLAN AND AS COORDINATED WITH OWNER AND GENERAL CONTRACTOR. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.

ELECTRICAL DEMOLITION NOTES

- A DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND SOLID HALFTONE LINES INDICATE EXISTING ITEMS TO REMAIN. B THE CONTRACTOR SHALL MAINTIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- C LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND

WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).

- DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES. D REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS
- E COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- F COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED G PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- H CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR
- I UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC
- J EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS. K CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR
- REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. L DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED, REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS, INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION, CLEAN AND RE-LAMP RELOCATED LUMINAIRES.

BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY.

- M ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
- N CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
LIGHTING CONTROLS	40"	\$ #
LIGHT SWITCH: LOW VOLTAGE (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS) EXAM LIGHT SWITCH	46"	\$ "
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	46"	\$ N
SURGICAL LIGHT INTENSITY CONTROL LOW VOLTAGE DIMMER SWITCH (WHEN PRESENT, # INDICATES	46"	\$ ^{SL} \$ ^{D#}
QUANTITY OF CHANNELS) GRAPHIC TOUCHSCREEN CONTROL STATION	46"	\$ G
LINE VOLTAGE SWITCH	46"	\$ LV
LINE VOLTAGE THREE-WAY, FOUR-WAY SWITCH LINE VOLTAGE THREE-WAY, FOUR-WAY DIMMER SWITCH	46"	\$ LV3 \$ LV4 \$ LV3D \$ LV4D
KEYED SWITCH	46"	\$ K \$ OS \$ VS
OCCUPANCY OR VACANCY SENSOR SWITCH OCCUPANCY OR VACANCY SENSOR SWITCH WITH DIMMING	46"	\$ DOS
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	\$ U
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF) PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	46"	\$ "L \$ PL
TIMER SWITCH	46"	\$ T
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT OCCUPANCY SENSOR, CORNER MOUNT	CLG	® ® •
DAYLIGHT SENSOR	AS NOTED	®
PHOTOCELL LIGHTING RELAY	AS NOTED AS NOTED	
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)	CLG	ER
POWER OUTLETS		
SIMPLEX RECEPTACLE (TEXT INDICATES NEMA TYPE) DUPLEX RECEPTACLE	1'-6"	Φ 🕸
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH		φ φ
FILLED CENTER BAR INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)	1'-6"	d d
DEAD FRONT GFCI DEVICE, LABEL AND INSTALL IN READILY ACCESSIBLE LOCATION		Ø
DUPLEX RECEPTACLE WITH TWO INTEGRAL USB CHARGING PORTS	1'-6"	@
USB CHARGING OUTLET WITH FOUR INTEGRAL USB PORTS	1'-6"	0
GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS 277V)	46"	Фс/ѕ
DUPLEX RECEPTACLE, CEILING MOUNTED QUADRUPLEX RECEPTACLE	CLG 1'-6"	ф ф
JUNCTION BOX, CEILING OR WALL		→ ⊙
VOLTAGE/2 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE VOLTAGE/3 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-6"	₩ ₩
'T' INDICATES SAFETY TYPE, TAMPER RESISTANT OUTLET(S)		4
SS INDICATES SURGE SUPPRESION TYPE OUTLET(S) GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF	2'-2"	d SS U.u.s
"WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS DUPLEX FOR ELECTRIC WATER COOLER: COORDINATE EXACT		G _{MP}
LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER, PROVIDE READILY ACCESSIBLE GFI DEVICE AT 18" ADJACENT TO WATER COOLER		© EMC
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD		ф
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT		Ф
FIRE ALARM		
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU) REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	6'-6" TO TOP 54"	FAA
REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE	54"	FAAM
SMOKE EVACUATION CONTROL PANEL	54"	SECP
POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES TRANSPONDER CABINET	46"	NAC TRAN
GRAPHICS DISPLAY TERMINAL	40	GDT
FIRE ALARM CONTROL EXTENDER POST INDICATOR VALVE		PIV
PULL STATION : DOUBLE ACTION	46" TO LEVER	E
KEYED, LOCKED PULL STATION : DOUBLE ACTION. STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF.	46" TO LEVER	FK
AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL, CLG	
AUDIO-ONLY NOTIFICATION APPLIANCE VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG	™ ७
BELL / LIGHT BELL ONLY	80"	BL
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	SD
PHOTO-ELECTRIC SMOKE DETECTOR FOR PATIENT ROOM MONITORING (SEE RISER)	CLG	SDP
PROJECTED BEAM SMOKE DETECTOR; EMITTER (BE) AND RECEIVER (BR)		BE BR
HEAT DETECTOR CARBON MONOXIDE DUCT DETECTOR	CLG	(FD)
CARBON MONOXIDE ALARM: SINGLE STATION W/SOUNDER BASE	CEILING	CM
CARBON MONOXIDE AUDIO/VISUAL NOTIFICATION APPLIANCE DOOR HOLDER: WALL TYPE	WALL	FCM DH
DOOR HOLDER : CLOSURE TYPE	ABV DOOR	DHC
DUCT SMOKE DETECTOR CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE	ABV CLG	DD
MODULE CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE		[FS]
MODULE PRESSURE SWITCH		PS
ISOLATION MODULE	WALL	
ZONE ADDRESSABLE MODULE H.V.A.C. SMOKE DAMPER CONNECTION		SM
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"	RI
FIREMAN'S PHONE JACK FIREMAN'S KNOX BOX CONNECTION	4'-6"	FP KB
ADDRESSABLE RELAY MODULE		R
INDICATES VANDAL-PROOF POLYCARBONATE COVER, VANDAL PROOF COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING		VR
INDICATES CHIME AUDIBLE NOTIFICATION		CH EL
DEVICE USED FOR ELEVATOR CONTROL	1	1

DESCRIPTION	MOUNTING HEIGHT	SYMBO
LIGHTING FIXTURES AND EQUIPMENT	1	
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE		
RECESSED CEILING FIXTURE		
POLE MOUNTED AREA LIGHT WITH CONCRETE BASE		۲ ۲ 1
		9
LIGHTED BOLLARD WITH CONCRETE BASE EMERGENCY BATTERY WALL-PACK		©
WALL MOUNT FIXTURE		<u>₽</u> 20
TRACK COMPLETE WITH POWER SUPPLIES AND FIXTURE HEADS		ΔΔΔ
FLOODLIGHT		∀ -
EXIT LIGHT (CEILING, END, WALL MOUNT) WITH OR WITHOUT DIRECTIONAL ARROWS		₩\$
STRIP FIXTURE		⊢О⊣
CROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-CRITICAL BRANCH		
PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE		
EMERGENCY-LIFE SAFETY BRANCH REMOTE LIGHT FIXTURE DRIVER	AS NOTED	RD
REMOTE BATTERY BACKUP	AS NOTED AS NOTED	RB
CENTRAL BATTERY INVERTER	AS NOTED	INV
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS:		GRO
HASHMARKS INDICATE # OF CONDUCTORS.		
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	\$ ^M
MOMENTARY CONTACT SWITCH	46"	\$ MC
HAND-OFF-AUTO 3-POSTION SWITCH	46"	\$ HOA
DISCONNECT SWITCH	5'-0"	' D
MAGNETIC STARTER MAGNETIC COMBINATION STARTER	5'-0"	조 - "조
VARIABLE FREQUENCY DRIVE	5'-0"	
ENCLOSED FLUSH MTD. CIRCUIT BREAKER	5'-0"	
MUSHROOM SWITCH	46"	台
PUSHBUTTON STATION WITH 1, 2, OR 3 BUTTONS.	46"	
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING	6'-6" TO TOP	
INDICATES EMERGENCY		
TRANSFORMER	AS NOTED	
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		8
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		©
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION		<i>∧</i>
SCHEDULE PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR		-
CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.		
PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION. TRANSFORMER SHALL BE 120V-24V. MOUNT ABOVE SUSPENDED		
ACCESSIBLE CEILING IN J-BOX. PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS/IF NEEDED		Ø
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	100.
	, a Control	
SURGE PROTECTION DEVICE (SURFACE OR FLUSH MOUNTED) GENERATOR ANNUNCIATOR PANEL (SURFACE OR FLUSH MOUNTED)	AGII	□ ਚ SPD - □ ਚ GEN
GENERATOR ANNUNCIATOR PANEL (SURFACE OR FLUSH MOUNTED) - SEE SPECIFICATIONS	46"	 GEN
CONDUIT UP		0
CONDUIT DOWN FLEXIBLE CONDUIT		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	
BUS DUCT, AMPERAGES AS NOTED	AS SHOWN	
WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	
TRENCH DUCT (SIZE AS NOTED)	AS SHOWN	
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
SOLID BOTTOM CABLE TRAY, SIZE AS NOTED J-HOOK PATHWAY	AS SHOWN	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-#
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		EQUIP-#
TAGGED NOTE		\bigcirc
REVISION TAG		\ \ \
LINETYPE LEGEND		
	EXISTING	
	DEMOLISHED	
	14544	

DESCRIPTION	MOUNTING HEIGHT	SYMB
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
INDICATES EMERGENCY POWER		EM
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		XP
SPECIAL OUTLETS		
FLOORBOX, AS SCHEDULED	FLOOR	FB#
POKE-THRU, AS SCHEDULED	FLOOR	(P#)
WALLBOX, AS SCHEDULED	WALL	WB#
AUDIO/VISUAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	⊘ AV
COMBINATION POWER AND DATA OUTLET LOCATION, REFER TO	1'-6"	igorimsis
ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	. •	•
COMBINATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	
OVERHEAD PROJECTOR: PROVIDE DUPLEX RECEPTACLE, ONE DATA, HDMI, 3.5mm AUDIO, AND VGA OUTLET ON (3) PLATES	CLG	۵
SPECIAL VIDEO SYSTEM SIGNAL INPUT		-NA-
SURFACE PLUG-MOLD		
SURFACE WIRE-MOLD		
POWER POLE AS NOTED		PP
TELEVISION		
TELEVISION HEADEND (SPLITTERS/AMPLIFIERS/DISTRIBUTION)	46"	TV
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	⊘ [™]
OVERHEAD PAGING		
PAGING SPEAKER: CEILING	CLG	\$
PAGING SPEAKER W/ VOLUME CONTROL	CLG	\$\\ \$\
PAGING SPEAKER: WALL	8'-0"	
RECESSED WALL MOUNTED PAGING SPEAKER DUKANE 5A606 SPEAKER. ATLAS 417-8WD	8'-0"	Ÿ
VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER. QUAM VP1	SEE FLOOR PLANS	∜ \$>∨
EXTERIOR VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, SHALL BE PAINTED COLOR SELECTED BY ARCHITECT/OWNER. QUAM VP6	SEE FLOOR PLANS	\$ WP
WALL MOUNTED PAGING HORN	9'-0"	$\hat{\mathbb{Y}}_{\lambda}$
CALL INITIATION STATION	46"	$\stackrel{\Diamond}{\sim}$
WALL VOLUME CONTROL	46"	$\langle \rangle$
PAGING MICROPHONE	1'-6"	$\bigotimes_{}$
PANIC BUTTON (MOUNTING PER DRAWINGS)	46", UNDER DESK	Y P
NOTIFICATION LIGHT (MOUNTING PER DRAWINGS)	7'-6", CLG	
LCD WALL DISPLAY		LCD
PAGING SYSTEM HEADEND	46"	PA
CLOCKS		
TYPICAL CLOCK MOUNTING HEIGHTS:		
FOR CEILING HEIGHTS < 9'-8": MOUNT CENTER OF BACKBOX AT 8" BELOW CEILING.		
FOR CEILING HEIGHTS >= 9'-8" : MOUNT CENTER OF BACKBOX AT 9'-0" AFF.		
ANALOG CLOCK: SINGLE FACE	SEE ABOVE	Φ
ANALOG CLOCK: DUAL FACE	SEE ABOVE	OO
DIGITAL CLOCK: SINGLE FACE	SEE ABOVE	
DIGITAL CLOCK: DUAL FACE	SEE ABOVE	H ₂₀₀ H
CLOCK SYSTEM HEAD END	84"	CLOCK
AV SYSTEMS	04	DECON
PROJECTOR WITH MOUNT (CEILING OR WALL AS INDICATED)	REFER TO	1 1
,	DRAWINGS	Ф Ф
LOCAL SOUND SPEAKER: CEILING	CLG	© M
WIRELESS MICROPHONE ANTENNA DACING SPEAKED: WALL	8'-0"	(MA) (LS)
PAGING SPEAKER: WALL MICROPHONE INPUT: # INDICATES NUMBER OF INPUTS.	1'-6"	M
WIRELESS MICROPHONE ANTENNA, WALL MOUNT	REFER TO	
AVAINDLE (OR OUTDLE) WALL DIATE DEFENTO DRAWINGS AND	SPECS.	¥ AV
AV INPUT (OR OUTPUT) WALL PLATE. REFER TO DRAWINGS AND SPECIFICATIONS FOR TYPE AND QUANTITY OF CONNECTIONS.	1'-6"	
BLUETOOTH INPUT MODULE	1'-6"	(S)
AV TOUCHSCREEN CONTROL STATION	46"	
LOCAL SOUND SYSTEM HEADEND	REFER TO SPECS.	LS
PANEL FURNITURE		
PANEL FURNITURE DUPLEX RECEPTACLE. PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS		Ш
AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		Ш
PANEL FURNITURE DATA/VOICE OUTLET. PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		2D
POWER CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT	1'-6"	
CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR		g _{Eb}
AS REQUIRED BY PANEL FURNITURE VENDOR COMBINATION POWER AND LOW VOLTAGE CONNECTION TO PANEL	1'-6"	
FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL		⊘ FF
CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR		

CRIPTION	MOUNTING HEIGHT	SYMB
REVIATIONS	110111	31110
S OTHERWISE NOTED		UON
R FURNISHED CONTRACTOR INSTALLED		OFCI
R FURNISHED OWNER INSTALLED		OFOI
ACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
ACTOR FURNISHED OWNER INSTALLED		CFOI
TES EMERGENCY POWER		EM
UARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR ENOTED		WG
IERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE IS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
SION PROOF - PROVIDE WIRING METHODS, ENCLOSURES,		XP
GS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		1
CIAL OUTLETS	FLOOD	
BOX, AS SCHEDULED THRU, AS SCHEDULED	FLOOR FLOOR	FB# P#)
OX, AS SCHEDULED	WALL	WB#
VISUAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE, REFER	1'-6"	→ AV
SOCIATED DETAIL FOR ADDITIONAL INFORMATION	41.01	
NATION POWER AND DATA OUTLET LOCATION, REFER TO IATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	♥
NATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX TACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL	1'-6"	
MATION	01.0	
IEAD PROJECTOR: PROVIDE DUPLEX RECEPTACLE, ONE HDMI, 3.5mm AUDIO, AND VGA OUTLET ON (3) PLATES	CLG	å
AL VIDEO SYSTEM SIGNAL INPUT		-NA
CE PLUG-MOLD		
CE WIRE-MOLD		
R POLE AS NOTED		PP
EVISION		
SION HEADEND (SPLITTERS/AMPLIFIERS/DISTRIBUTION)	46"	TV
SION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, DINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	⊘ [™]
RHEAD PAGING	I	1
G SPEAKER: CEILING	CLG	\(\s\)
G SPEAKER W/ VOLUME CONTROL	CLG	Š
G SPEAKER: WALL	8'-0"	
SED WALL MOUNTED PAGING SPEAKER DUKANE 5A606 ER. ATLAS 417-8WD	8'-0"	P
L PROOF / WEATHERPROOF WALL MOUNTED PAGING	SEE FLOOR	
ER. QUAM VP1	PLANS	Ý
IOR VANDAL PROOF / WEATHERPROOF WALL MOUNTED 3 SPEAKER, SHALL BE PAINTED COLOR SELECTED BY FECT/OWNER, OLIAM VP8	SEE FLOOR PLANS	\S\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
FECT/OWNER. QUAM VP6 MOUNTED PAGING HORN	9'-0"	(H)
NITIATION STATION	46"	Y
/OLUME CONTROL	46"	T
G MICROPHONE	1'-6"	
BUTTON (MOUNTING PER DRAWINGS)	46", UNDER	
CATION LIGHT (MOUNTING DED DDAMINGS)	DESK	
CATION LIGHT (MOUNTING PER DRAWINGS)	7'-6", CLG	Y
ALL DISPLAY		LCD
S SYSTEM HEADEND	46"	PA
CKS		
L CLOCK MOUNTING HEIGHTS: EILING HEIGHTS < 9'-8" :		
CENTER OF BACKBOX AT 8" BELOW CEILING.		
EILING HEIGHTS >= 9'-8" : CENTER OF BACKBOX AT 9'-0" AFF.		
G CLOCK: SINGLE FACE	SEE ABOVE	(F)
	/IDOVL	Υ
G CLOCK: DUAL FACE	SEE ABOVE	P
L CLOCK: SINGLE FACE	SEE ABOVE	
L CLOCK: DUAL FACE	SEE ABOVE	
L GEGON, DUNE I AUE	SLE ABUVE	H
SYSTEM HEAD END	84"	CLOCK
SYSTEMS		
CTOR WITH MOUNT (CEILING OR WALL AS INDICATED)	REFER TO DRAWINGS	$\left[\begin{array}{c} \\ \\ \end{array}\right]$
SOUND SPEAKER: CEILING	CLG	
ESS MICROPHONE ANTENNA	CLG	(MA)
G SPEAKER: WALL	8'-0"	© ©
PHONE INPUT: # INDICATES NUMBER OF INPUTS.	1'-6"	<u> </u>
ESS MICROPHONE ANTENNA, WALL MOUNT	REFER TO SPECS.	MA MA
UT (OR OUTPUT) WALL PLATE. REFER TO DRAWINGS AND	1'-6"	
FICATIONS FOR TYPE AND QUANTITY OF CONNECTIONS.		
OOTH INPUT MODULE	1'-6"	®
JCHSCREEN CONTROL STATION	46"	©
SOUND SYSTEM HEADEND	REFER TO SPECS.	LS
EL FURNITURE]
FURNITURE DUPLEX RECEPTACLE. PROVIDE ALL WIRING AS		_TT
RED, COORDINATE EXACT INSTALLATION REQUIREMENTS OCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		_ ш
FURNITURE DATA/VOICE OUTLET. PROVIDE ALL WIRING AS RED, COORDINATE EXACT INSTALLATION REQUIREMENTS		<u>2D</u>
OCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		2D
R CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT JIT CONNECTION FROM RECESSED WALL BOX TO PANEL TURE PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE	1'-6"	8 FP
TURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE QUIRED BY PANEL FURNITURE VENDOR		
NATION POWER AND LOW VOLTAGE CONNECTION TO PANEL TURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM	1'-6"	
SED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL		⊘ FF

	HEIGHT	SYMBOL	DESCRIPTION	HEIGHT	S١
S			SECURITY PANIC ALARM		
TED		UON	PANIC ALARM BUTTON	SEE	®
NTRACTOR INSTALLED		OFCI		DRAWINGS	
/NER INSTALLED		OFOI	PANIC ALARM ANNUNCIATOR	46"	
ED CONTRACTOR INSTALLED		CFCI	PANIC ALARM STROBE - REFER TO SPECIFICATIONS FOR LENS AND HOUSING COLOR	SAME AS FIRE ALARM	
ED OWNER INSTALLED		CFOI	DANIC ALADM DOMED SUDDLY CARINET	5'-0"	SEC-P
POWER		EM	PANIC ALARM POWER SUPPLY CABINET	5-0"	SEC-P
MANUFACTURER'S SPECIFIC GUARD FOR		WG	SECURITY INTERCOM		
A-3R, WET LOCATION LISTED. PROVIDE AS SUITABLE FOR OUTDOORS.		WP	AUDIO/VIDEO INTERCOM STATION: MASTER WITH SELECTIVE DOOR CONTROLS, POWER SUPPLIES & DOOR RELAY CONTACTS AS REQUIRED FOR OPERATION OF ANY DOOR IN THE SYSTEM AND VIEWING OF ANY AUDIO/VIDEO INTERCOM REMOTE ON THE	DESK MOUNT	(M)
OVIDE WIRING METHODS, ENCLOSURES,		XP	SYSTEM. AIPHONE#IX-MV W/DESK STAND - COLOR BY ARCHITECT.		
BLE FOR HAZARDOUS LOCATION.		7	AUDIO/VIDEO INTERCOM STATION: REMOTE WITH FLUSH-MTD S.S. ENCLOSURE. AIPHONE #IX-DVF.	46"	
ETS			SECURITY ACCESS CONTROL		
_ED	FLOOR	FB#	DOOR ALARM	DOOR	
LED	FLOOR	[#]		FRAME	-
ED	WALL	WB#	DOOR POSITION SWITCH	DOOR FRAME	
OUTLET WITH DUPLEX RECEPTACLE, REFER FOR ADDITIONAL INFORMATION	1'-6"	⊘ ^{AV}	MAGNETIC LOCK(S)	ABV DOOR	
ND DATA OUTLET LOCATION, REFER TO	1'-6"	- ⊘	ELECTRIC LOCKSET	AT LATCH	
R ADDITIONAL INFORMATION		-	DOOR DELAYED EGRESS/ELECTRIFIED PANIC MECHANISM	ABV DOOR	
ND DATA OUTLET LOCATION, GFCI DUPLEX ASSOCIATED DETAIL FOR ADDITIONAL	1'-6"		ELECTRIC STRIKE	AT LATCH	
PROVIDE DUPLEX RECEPTACLE, ONE O, AND VGA OUTLET ON (3) PLATES	CLG	_ &	AUTOMATIC DOOR CONNECTION (MAY ALSO HAVE ELECTRIC STRIKE/MAG-LOCK/ELECTRIFIED PANIC CONNECTION - SEE ARCHITECTURAL HARDWARE SPECIFICATIONS)	CLG	
SIGNAL INPUT		-NA-	DOOR RELEASE PUSH-PLATE / INFRA-RED OPERATOR STATION.	46"	俞
			PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.		
			DOOR RELEASE KEYSWITCH STATION	6'-0"	(S)
		PP	DOOR RELEASE KEYPAD STATION	46"	
	I	1	DOOR RELEASE CARD READER STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS	46"	
PLITTERS/AMPLIFIERS/DISTRIBUTION)	46"	TV	REQUIRED.		_
TLET WITH DUPLEX RECEPTACLE,	7'-0"		SAME AS "CR" EXCEPT MULLION MOUNT	46"	₽\
WITH WALL BRACKET WHERE APPLICABLE		-	MOTION SENSOR DOOR CONTROL	CLG	
GING]	PUSH-TO-EXIT BUTTON	46"	
NG	CLG	\$	REMOTE DOOR RELEASE PUSH-BUTTON	8" ACT	
LUME CONTROL	CLG		RECESSED JUNCTION BOX	SEE DRAWINGS	
	8'-0"	\$	ACCESS CONTROL HEADEND	5'-0"	SEC-A
ED PAGING SPEAKER DUKANE 5A606 D	8'-0"	�	SECURITY CCTV VIDEO SURVEILLANCE		
ERPROOF WALL MOUNTED PAGING	SEE FLOOR	\$\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	CCTV CAMERA: CEILING MOUNT DOME (TEXT INDICATES TYPE)	CLG	###
DF / WEATHERPROOF WALL MOUNTED L BE PAINTED COLOR SELECTED BY	PLANS SEE FLOOR PLANS	Y S	REFER TO SCHEDULE FOR TYPES CCTV CAMERA: WALL MOUNT DOME (TEXT INDICATES TYPE) REFER TO SCHEDULE FOR TYPES	WALL	H###
AM VP6		-	INDICATES EXTERIOR CAMERA RATED FOR CONDITIONS, WET		-
HORN	9'-0"	\Rightarrow	LOCATION LISTED, WITH AUXILLARY HEATER		WP
N	46"	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	INDICATES CAMERA WITH PAN/TILT/ZOOM FUNCTION		PTZ
	46"	$ \diamondsuit \rangle$	CCTV HEAD END	SEE DRAWINGS	SEC-C
	1'-6"		SECURITY INTRUSION DETECTION		1
NG PER DRAWINGS)	46", UNDER DESK	₹		CLG	
DUNTING PER DRAWINGS)	7'-6", CLG	\$	MOTION DETECTOR (WALL OR CEILING MOUNT)		
		_ * `	GLASS BREAK SENSOR (WALL OR CEILING MOUNT)	CLG	
-		[CD]	LOCAL SOUNDER	SEE DRAWINGS	
ND	46"	PA	INTRUSION DETECTION KEYPAD CONTROLLER	46"	®
]	SECURITY SYSTEM HEAD END	5'-0"	SEC
NG HEIGHTS: 9'-8" :			DATA / VOICE		
KBOX AT 8" BELOW CEILING.			DATA OUTLET: NUMBER BESIDE OUTLET INDICATES NUMBER OF	1'-6"	2D V
= 9'-8" : KBOX AT 9'-0" AFF.			DATA JACKS. NO NUMBER INDICATES 1 JACK.	41.0"	V
FACE	055 1550		VOICE OUTLET: NUMBER BESIDE OUTLET INDICATES NUMBER OF VOICE JACKS. NO NUMBER INDICATES 1 JACK.	1'-6"	▼
FACE	SEE ABOVE	Ψ	COMBINATION OUTLET: NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA/VOICE JACKS	1'-6"	2D/1V
ACE	SEE ABOVE	P	SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE		
FACE	SEE ABOVE		COUNTERTOP 4" ABOVE BACKSPLASH		\ ₹
	OLL ADOVL		OUTLET (VOICE ONLY): PAYPHONE TYPE	AS REQ'D.	PAY
CE	SEE ABOVE	Hzpc	DATA RACK: TWO POST. REFER TO COMMUNICATIONS RISERS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
ND	84"	CLOCK	DATA RACK: FOUR POST. REFER TO COMMUNICATIONS RISERS AND		
		1	SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
T (CEILING OR WALL AS INDICATED)	REFER TO	1 4 4	TELECOMMUNICATIONS SYSTEM BACKBOARD. PROVIDE 96"H x 3/4"D		
I (OFITING OIV WALL AS INDICATED)	DRAWINGS	Ô Ô	FIRE-RETARDENT PLYWOOD BACKBOARD WITH TWO (2) COATS OF NON-CONDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT, #3/0 TO		
CEILING	CLG	®	GROUND BAR AT MAIN SERVICE SWITCHBOARD, 30-PT GROUND BAR AND A 6'-0", #3 AWG PIGTAIL AT BACKBOARD. INSTALL BOARD AT 2'		
ANTENNA	CLG		AFF. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN)	OF II IN O	_
	8'-0"	<u> </u>	WIRELESS ACCESS POINT OUTLET WITH PROVISIONS FOR (1 DATA OUTLET FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT	CEILING	WAP
IDICATES NUMBER OF INPUTS.	1'-6"	Ψ	NO MORE THAN 24" ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT NO MORE THAN 24" ABOVE CEILING. AT EACH OUTLET, PROVIDE A 20' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF		
ANTENNA, WALL MOUNT	REFER TO SPECS.	®	FINAL OUTLET LOCATION. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET	WALL	WAP
VALL PLATE. REFER TO DRAWINGS AND	1'-6"	<u> </u>	LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNER'S WAP LOCATIONS.		V
PE AND QUANTITY OF CONNECTIONS.	1=0	_			
JLE	1'-6"	⊕			
FROL STATION	46"	<u></u>			
HEADEND	REFER TO	LS			
	SPECS.				

DESCRIPTION



2429 Members Way Lexington, KY 40504 T: 859 253.0892 F: 859 231.8357



CLIENT JOB #: NKU-19-0016 DATE: 3/29/21 DRAWN: ILA CHECKED:

REVISIONS

WATER HEATER BACK TO SOURCE. E2 DEMOLISH EXISTING CIRCUITS CONDUIT AND WIRE SERVING THE EXISTING CONDENSATE PUMPS. DEMOLISH TO ABOVE PIT LEVEL. CIRCUITS TO BE REUSED AND EXTENDED TO THE NEW CP-1

LOCATION. REFER TO NEW WORK PLAN FOR NEW LOCATION. E3 DEMOLISH EXISTING AIR COMPRESSOR CIRCUIT CONDUIT AND WIRE BACK TO CLOSEST JUNCTION BOX, SAFE OFF AND LABEL WITH CIRCUIT INFORMATION AND BREAKER SIZE.

E4 NEW CONDENSATE PUMP. EXTEND EXISTING CIRCUIT(S) TO NEW LOCATION. REFER TO TAG NOTE E2 ON DEMOLITION PLAN FOR ADDITIONAL INFORMATION.

E6 EXTEND EXISTING STEAM CONDENSATE PUMP CONTROLS CIRCUIT FROM JUNCTION BOX TO NEW CONTROL LOCATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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CONSTRUCTION DOCUMENTS





CLIENT JOB #: NKU-19-0016 3/29/21 DATE: DRAWN: ILA

REVISIONS

E2.0

