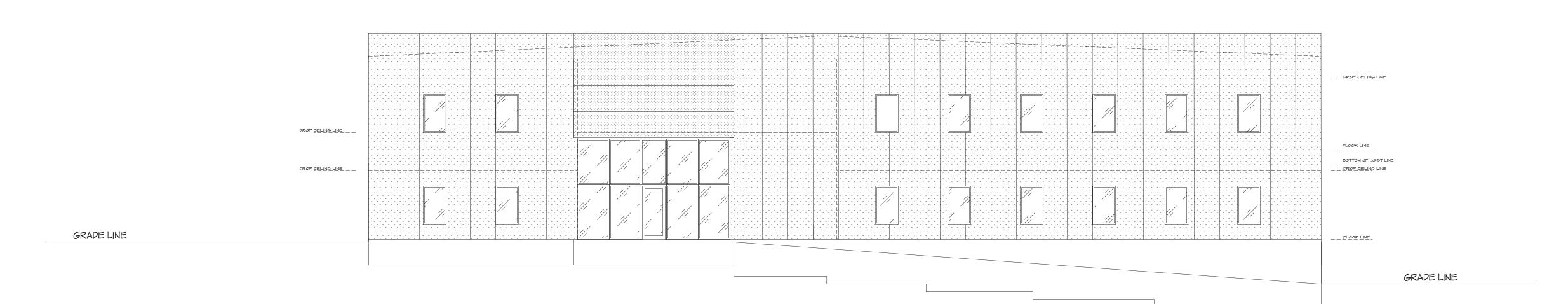
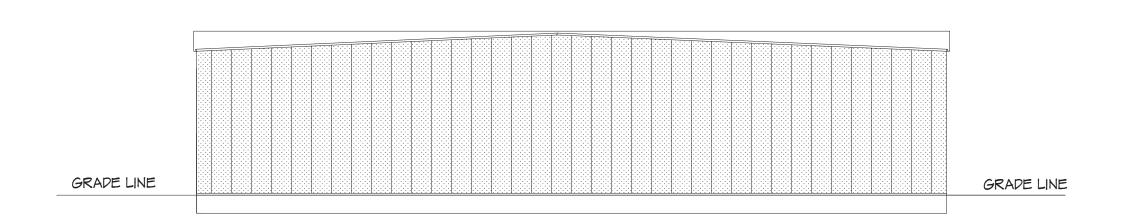
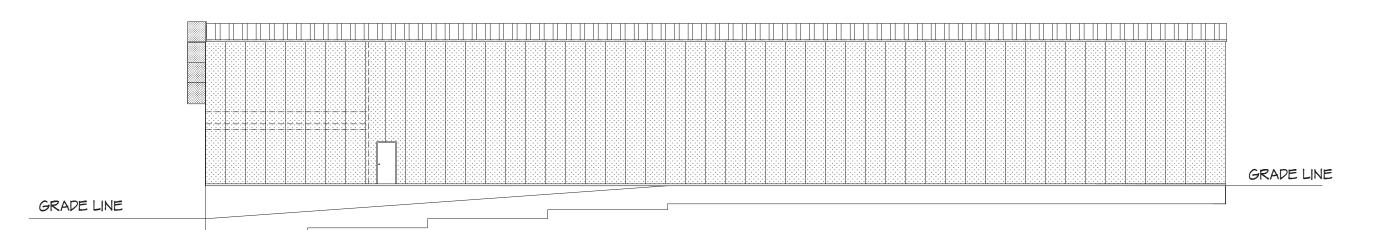
MD <sup>2</sup> DESIGNS
Quality By Design



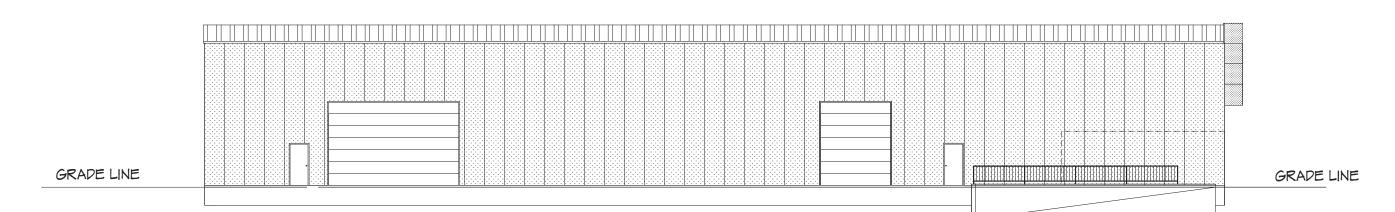
#### FRONT ELEVATION 1/8" = 1'0"



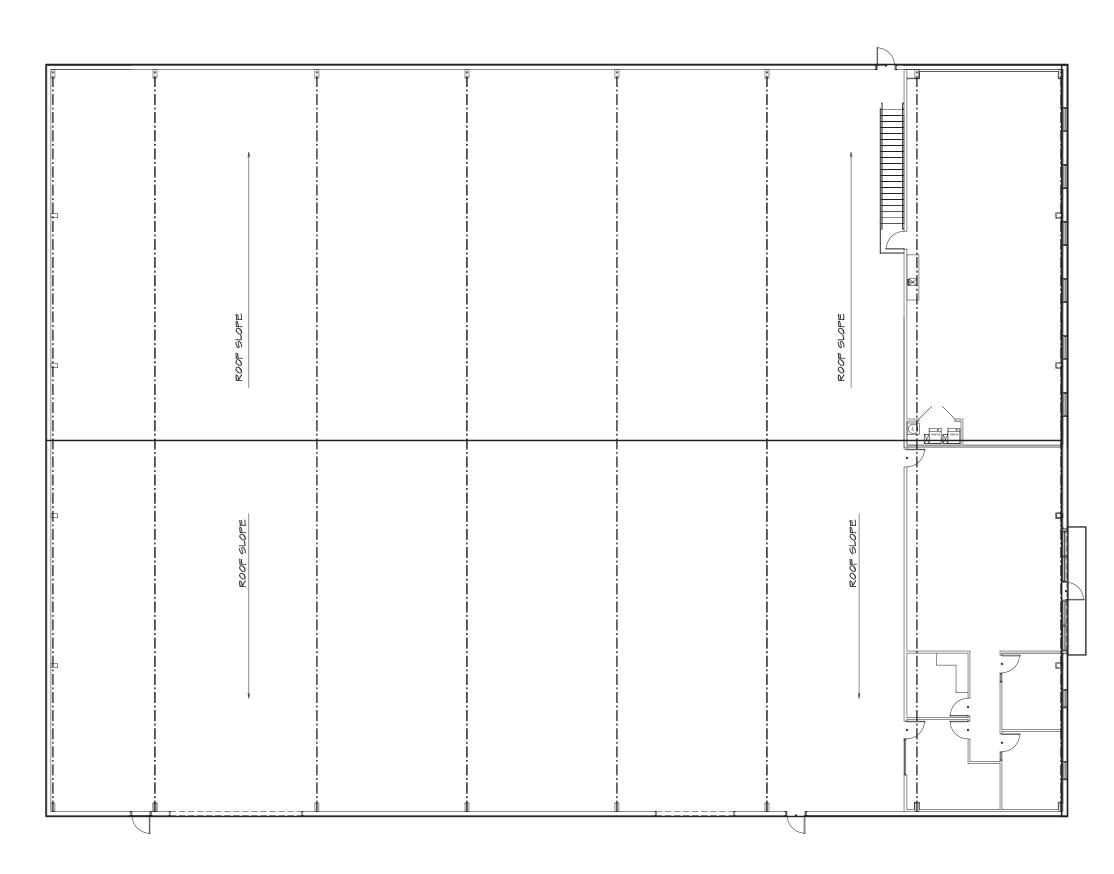
### REAR ELEVATION



1/16" = 1'0"



# LEFT ELEVATION



### ROOF ELEVATION

1/16" = 1'0"

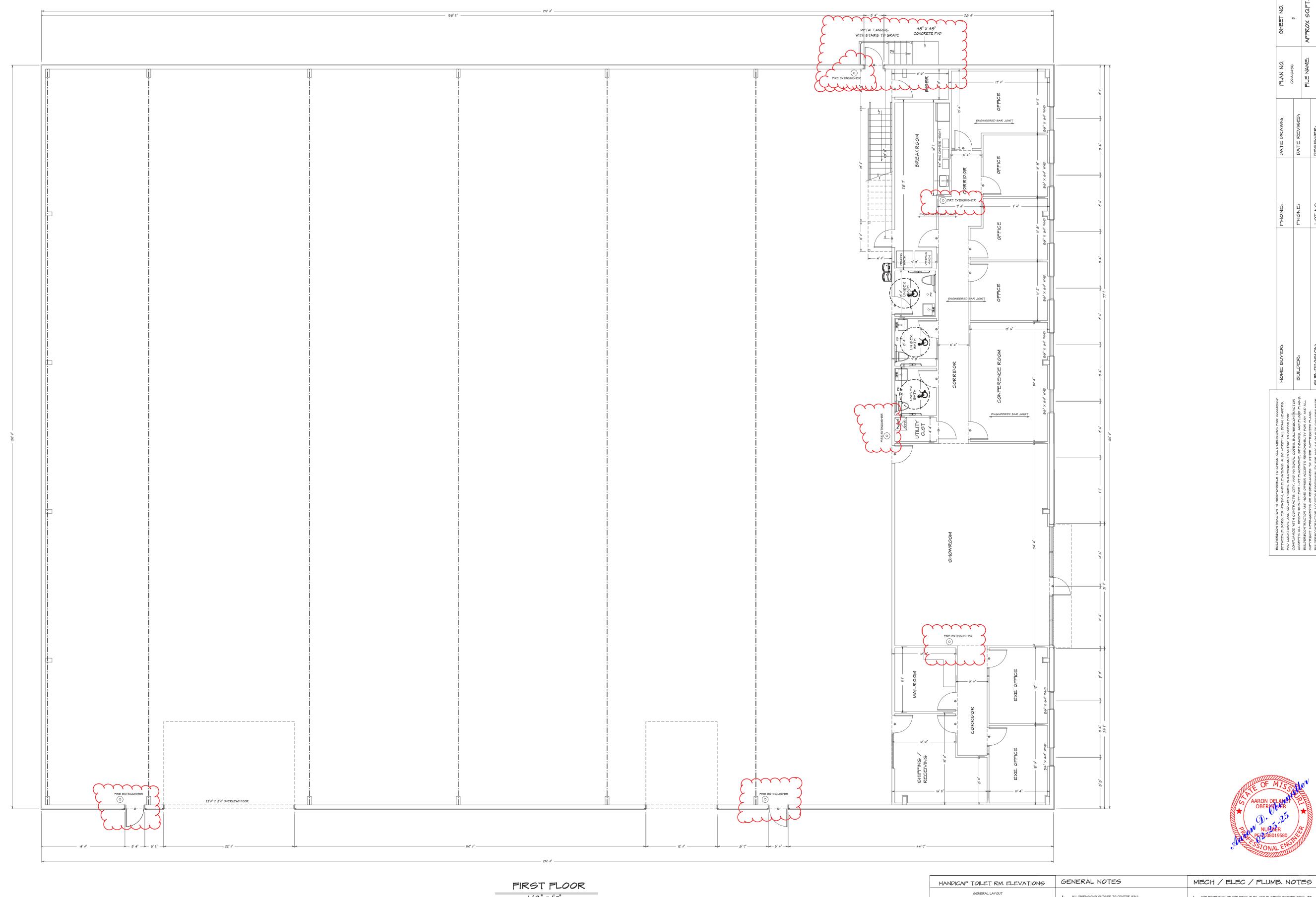
CODE NOTES

200 NTERNATIONAL BUILDING CODE 200 NTERNATIONAL PLUMBING CODE 201 NTERNATIONAL PLUMBING CODE 202 NTERNATIONAL PLUMBING CODE 203 NTERNATIONAL PLUMBING CODE 203 NTERNATIONAL PLUMBING CODE 203 NTERNATIONAL PLUMBING CODE 204 NTERNATIONAL PLUMBING CODE 205 NTERNATIONAL PLUMBING CODE 206 NTERNATIONAL PLUMBING CODE 207 NATIONAL PLUMBING CODE 208 NTERNATIONAL PLUMBING CODE 208 NTERNATIONAL PLUMBING CODE 208 NTERNATIONAL PLUMBING CODE 209 NTERNATIONAL PLUMBING POR SUPPORT 200 NTERNATIONAL PLUMBING POR SUPPORT 200 NTERNATIONAL PLUMBING POR SUPPORT 200 NTERNATIONAL PLUMBING POR SUPPORT 201 NTERNATIONAL PLUMBING PORT SUPPORT 201		OF LEE' SUMMIT		l .
20/9 INTERNATIONAL PIRE CODE 12 LEFE SATTY CODE 20/7 NATIONAL ELECTRIC CODE 120/7 NATIONAL PIRE CODE 12 LEFE SATTY CODE 120/7 NATIONAL ELECTRIC CODE 120/7 NATIONAL PIRE CODE 12 LEFE SATTY CODE 120/7		2013 INTERNATIONAL MECHANICAL CODE 2013 INTERNATIONAL PLUMBING CODE		
UNITED PEVELOPMENT ORDINANCE SHALL BE IN COMPILANCE WITH THE AMERICANS WITH DISABILITIES ACT TENANT USE: OCCUPANCY CLASSIFICATION (FRIMARY) GROUP 9-1 (SECONDARY) GROUP 9  AARON DELANE  OBER MILLER  AARON DELANE  TENANT AREA - OFFICE: IFFIT FLOOR - 2524 SECOND FLOOR - 1669 OCCUPANT LOAD (TABLE 1004.12) WATER CLOSETS: - (UNISEX) I PER 100 - 1 SERVICE SINK - I USE GROUP 5-1 WATER CLOSETS: - (UNISEX) I PER 100 - 1 SERVICE SINK - I USE GROUP 5-1 WALL COVERING IN PROPOSED BATHROOM TO HAVE TILE OR OTHER NONABSORBENT SURPACE. TO A HEIGHT NOT LESS THEN 40° OFF.		2010 INTERNATIONAL FIRE COPE & LIFE SAFTY COPE 2017 NATIONAL ELECTRIC COPE	5. PROVIDE 2X BLOCKING IN ALL WALLS AS REQUIRED FOR SUPPORT	
TENANT USE: OCCUPANCY CLASSIFICATION (FRIMARY) GROUP 5-1 (SECONDARY) GROUP 5 TYPE OF CONSTRUCTION (IBC 602): TYPE V-B AUTOMATIC SPRINCLER SYSTEM: IPLLY SPRINKLED (DESIGNED BY OTHERS) TENANT AREA = OFFICE: FIRST FLOOR - 5224 OBER MITHER OBER MITHER OCCUPANT LOAD (TABLE 1988) OCCUPANT LOAD (TABLE 2002.1): OCCUPANT LOAD (TABLE 1988) OCCUPANT LOAD (TABLE 2002.1): OCCUPANT LOAD (TABLE 2002.1): OCCUPANT LOAD (TABLE 2002.1): OCCUPANT LOAD (TABLE 2002.1)				
(SECONDARY) GROUP B  TYPE OF CONSTRUCTION (IBC 602), TYPE V-B  AARON DELAND  OBERMANER  OBERMANER  OCCUPANT LOAD (FIRST FLOOR - 5224  SECOND FLOOR - 1626  OCCUPANT LOAD (TABLE 1004-12);  OFFICE: 5124/100 - 52  WAZER CLOSETS: (UNISEX)   PER 50 - 1  SERVICE SIK: 1  USE GROUP 51  USE	ATTIMITING TO SEE THE			
AARON DELAND OBERMILER  AARON DELAND OBERMILER  STENANT AREA = OFFICE: FIRST FLOOR = 5224 SECOND FLOOR = 16669  STENANG: WREHOUSE : 17892 OCCUPANT LOAD (TABLE 1004-12): OFFICE: 5224/100 = 95 WEZZANINE: 1698/300 = 95 MEZZANINE: 1698/300 = 95 MEZZANINE: 1698/300 = 95 MATER CLOSETS: = (UNISEX)   PER 80 =   SECONDAL ENGLE  WATER CLOSETS: = (UNISEX)   PER 80 =   SERVICE SINK -    AARON DELAND TENANT AREA = OFFICE: FIRST FLOOR = 5224 SECOND FLOOR = 1669 SECOND FLOOR =	OF MICES ON		W/ OWNER BEFORE CONSTRUCTION	
AARON DELANT OBERMILER  TENANT AREA = OFFICE: FIRST FLOOR = 1660 SCOUP FLOOR = 1660 STRAGE, I WINCHOOSE = 1780 OCCUPANT LOAD (TABLE 1024.12): OFFICE: \$224/100 = 35 OFFICE: \$224/100 = 35 MEZZANINE: 1688/300 = 9 FLUMPING REQUIREMENTS (TABLE 2002.1): WATER CLOSETS: = (UNISEX)   FER 80 = 1 SERVICE \$10X - 1 USE GROUP 5-1 WATER CLOSETS: = (UNISEX)   FER 100 = 1 SERVICE \$10X - 1	AND TE STATE OF THE PERSON OF		6. COORDINATE ALL FINISHES WITH OWNER	
OBERMILER  9. CONTRACTOR TO COORDINATE W/ OWNER ON ALL ITEMS SUPPLIED AND AFFECTING THE CONTRACTORS WORK  OCCUPANT LOAD (TABLE 100412): OFFICE: 3524/100 = 39 WAREHOUSE: 17882/300 = 99 MEZZANINE: 1608/300 = 9 FLUMBING REQUIREMENTS (TABLE 20021): WATER CLOSETS: = (UNISEX)   PER 50 = 1 9ER VICE SINK -    UNIA FROM CLOSETS: = (UNISEX)   PER 100 = 1 9ERVICE SINK -    OCCUPANT LOAD (TABLE 100412): O	AARON DELANA			1
OCCUPANT LOAD (TABLE 1004.12):  OFFICE: 322421; 00 = 32  WARCHOUSE: 17882/500 = 36  MEZZANINE: 1688/300 = 9  FLUMBING REQUIREMENTS (TABLE 2002!):  WATER CLOSETS: = (UNISEX)   FER 50 = 1  SERVICE SINK: -1  USE GROUP S-1  WATER CLOSETS: = (UNISEX)   FER 100 = 1  SERVICE SINK: -1  SERVICE SINK: -1	OBER MILLER \	SECOND FLOOR = 1668		1
WAREHOUSE. 17882/800 = 98  WAREHOUSE. 17882/800 = 98  MEZZANINE: 1688/90 = 98  MEZZANINE: 1688/90 = 98  MEZZANINE: 1688/90 = 98  MEZZANINE: 1688/90 = 98  MATER CLOSETS: = (UNISEX) I PER 80 = I  SERVICE SINK: -I  USE GROUP S-I  WATER CLOSETS: = (UNISEX) I PER 100 = I  SERVICE SINK: -I  WATER CLOSETS: = (UNISEX) I PER 100 = I  SERVICE SINK: -I		OCCUPANT LOAD (TABLE 1004.12):	1 5	
NUMBER  PEODO8019580  WATER CLOSETS: = (UNISEX)   PER 50 =    SERVICE SINK -    WALL STUPS SHALL BE PESIGNED IN ACCORDANCE WITH EITHER AISI SZI OR AIS				
WATER CLOSETS: = (UNISEX)   PER 50 =    WATER CLOSETS: = (UNISEX)   PER 50 =    USE GROUP 5-   WATER CLOSETS: = (UNISEX)   PER 100 =    SERVICE SINK -    USE GROUP 5-   WATER CLOSETS: = (UNISEX)   PER 100 =    SERVICE SINK -	NUMBER (E)	/	WALL STUDS SHALL BE DESIGNED IN ACCORDANCE WITH EITHER	
9ERVICE SINK - I  USE GROUP S-I  WATER CLOSETS: = (UNISEX)   PER 100 =   9ERVICE SINK - I  NONABSORBENT SURFACE, TO A HEIGHT NOT LESS THEN 48" O.F.F.	PE 2008019580	WATER CLOGETS: = (UNIGEX)   PER BA =		
WATER CLOSETS: = (UNISEX)   PER 100 =   SERVICE SINK -	ENGLOSIA ENGLOS	SERVICE SINK - I		
	WINNING DE	WATER CLOSETS: = (UNISEX)   PER 100 = 1		
	- Caraca			

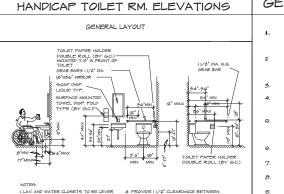
LOCATION PLAN / KEY PLAN

	G	ENERAL NOTES
MFORM TO THE S AMENDED BY THE CITY	1.	ALL PIMENSIONS INSIPE TO INSIPE WA UNLESS OTHERWISE NOTED
	2	CONTRACTOR SHALL FIELD VERIFY ALINFORM THE OWNER OF ANY DISCREF
E	3.	PROVIDE 2X BLOCKING IN ALL WALLS
NG AND FACILITIES .	4.	CONTRACTOR TO DESIGN, COORDINAT CASEWORK/MILLWORK WITH OWNER

ALL DIMENSIONS INSIDE TO INSIDE WALL, UNLESS OTHERWISE NOTED







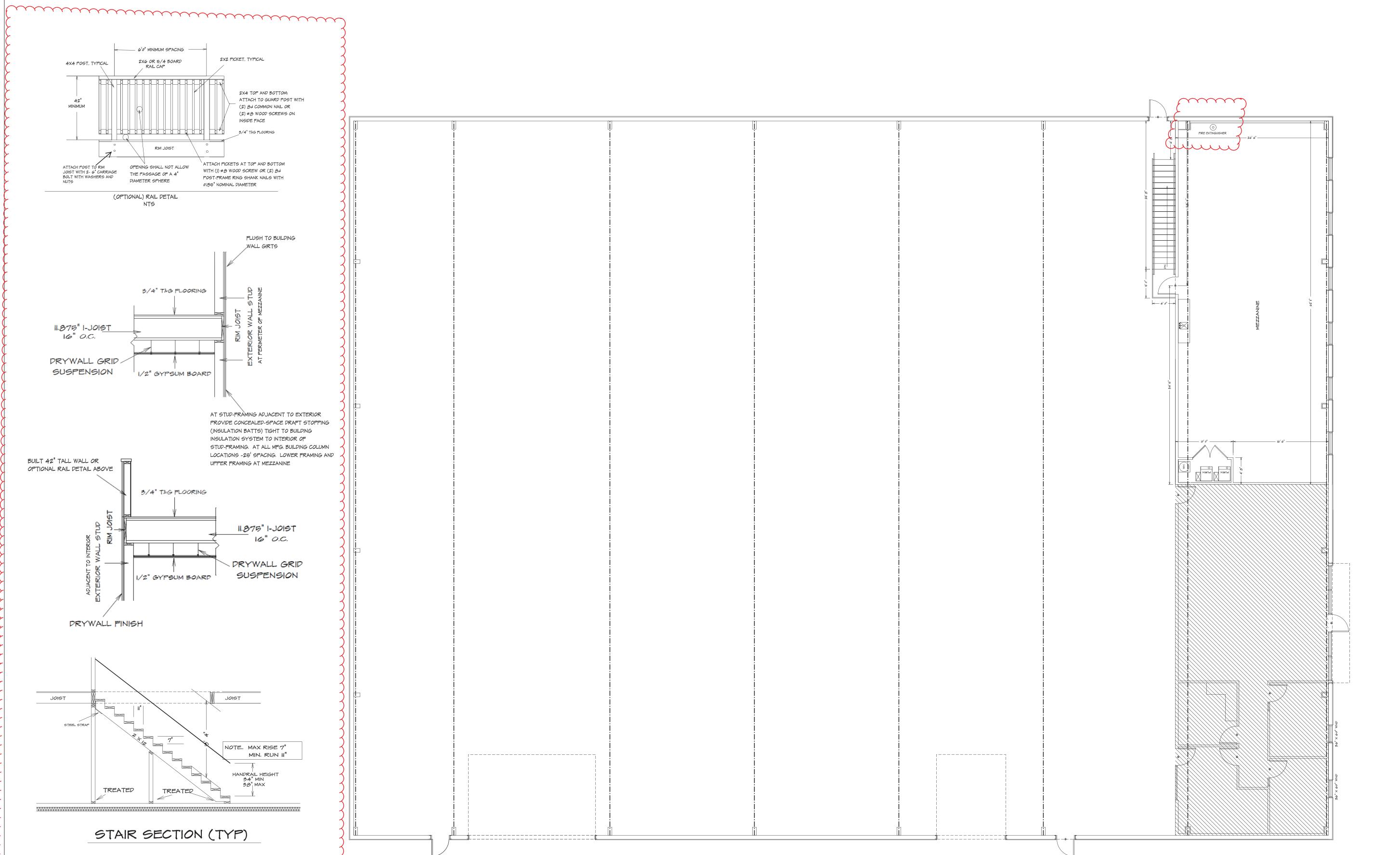
### ALL DIMENSIONS OUTSIDE TO CENTER WALL, UNLESS OTHERWISE NOTED

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS IN THE FIELD AND INFORM THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING PROVIDE BLOCKING IN ALL WALLS AS REQUIRED FOR SUPPORT
- CONTRACTOR TO PESIGN, COORDINATE, INSTALL, ETC. ALL CASEWORK/MILLWORK WITH OWNER
- COORDINATE ALL FINAL OUTLET, WALL AND DOOR LOCATION W/OWNER BEFORE CONSTRUCTION

- 7. PROVIDE FIRE EXINGUISHERS AS REQUIRED BY FIRE MARSHAL
- WALL COVERING IN PROPOSED BATHROOM TO HAVE TILE OR OTHER NONABSORBENT SURFACE, TO A HEIGHT NOT LESS THEN 48° OFF.
- THE EXTENSION OF THE MECH, ELEC, AND FLUMBING SYSTEM SHALL BE ON A DESIGN-BUILD BASIS BY THE GENERAL CONTRACTOR CONTRACTOR TO INSTALL COMMERCIAL GRAPE ELEC, OUTLETS, SWICHES, PLUMB, PIXTURES ECT. COORDINATE ALL OUTLETS LOCATION WITH PLAN
- 3. HVAC AND DUCT TO BE DESIGNED BY OTHERS
- 4. ALL ELECTRICAL WORK SHALL COMPLY WITH 2018 NEC
- 8. ALL WIRING SHALL BE IN EMT CONDUIT OR MC CABLE, MINIMUM WIRE SIZE SHALL BE #12 AWG. MINIMUM CONDUIT SIZE SHALL BE  $V/Z^*$
- ELECTRICAL PANEL IS 400 AMP-3P W/ 4-#3/0 CU THWN #6GRD IN 2 1/2" EMT CONDUIT, VOLTAGE 208/120
- PROVIDE EXIT SIGNS AND EMERGENCY LIGHTS TO BE IN ACCORDANCE WITH ALL COPES AND REGULATIONS FIELD VERIFY ALL DIMENSIONS AND SITE CONDITIONS CONTRACTOR TO COORDINATE W/ OWNER ON ALL ITEMS SUPPLIED AND AFFECTING THE CONTRACTORS WORK INTERIOR WALL CONSTRUCTION SHALL BE 24 GAUGE STUPS, TRACK AND BLOCKING, STUPS SET 24° OC MIN. W/ 1/2 GYPSUM BOARD WALL STUPS SHALL BE DESIGNED IN ACCORDANCE WITH EITHER AISI 5211 OR AISI 5100

CONSTRUCTION
As Noted on Plans Review

RELEASED FOR



——— 6'0" MINIMUM SPACING ———>

2X6 OR 5/4 BOARD RAIL CAP

RIM JOIST

3/4" T&G FLOORING

1/2" GYPSUM BOARD

STAIR SECTION (TYP)

minimum in the second s

(OPTIONAL) RAIL DETAIL NTS

ATTACH POST TO RIM

JOIST WITH 2- 6" CARRIAGE
BOLT WITH WASHERS AND
NUTS

OPENING SHALL NOT ALLOW
THE PASSAGE OF A 4"
DIAMETER SPHERE

MINIMUM

11.875" 1-JOIST 16" O.C.

DRYWALL GRID / SUSPENSION

BUILT 42" TALL WALL OR OPTIONAL RAIL DETAIL ABOVE

JOIST

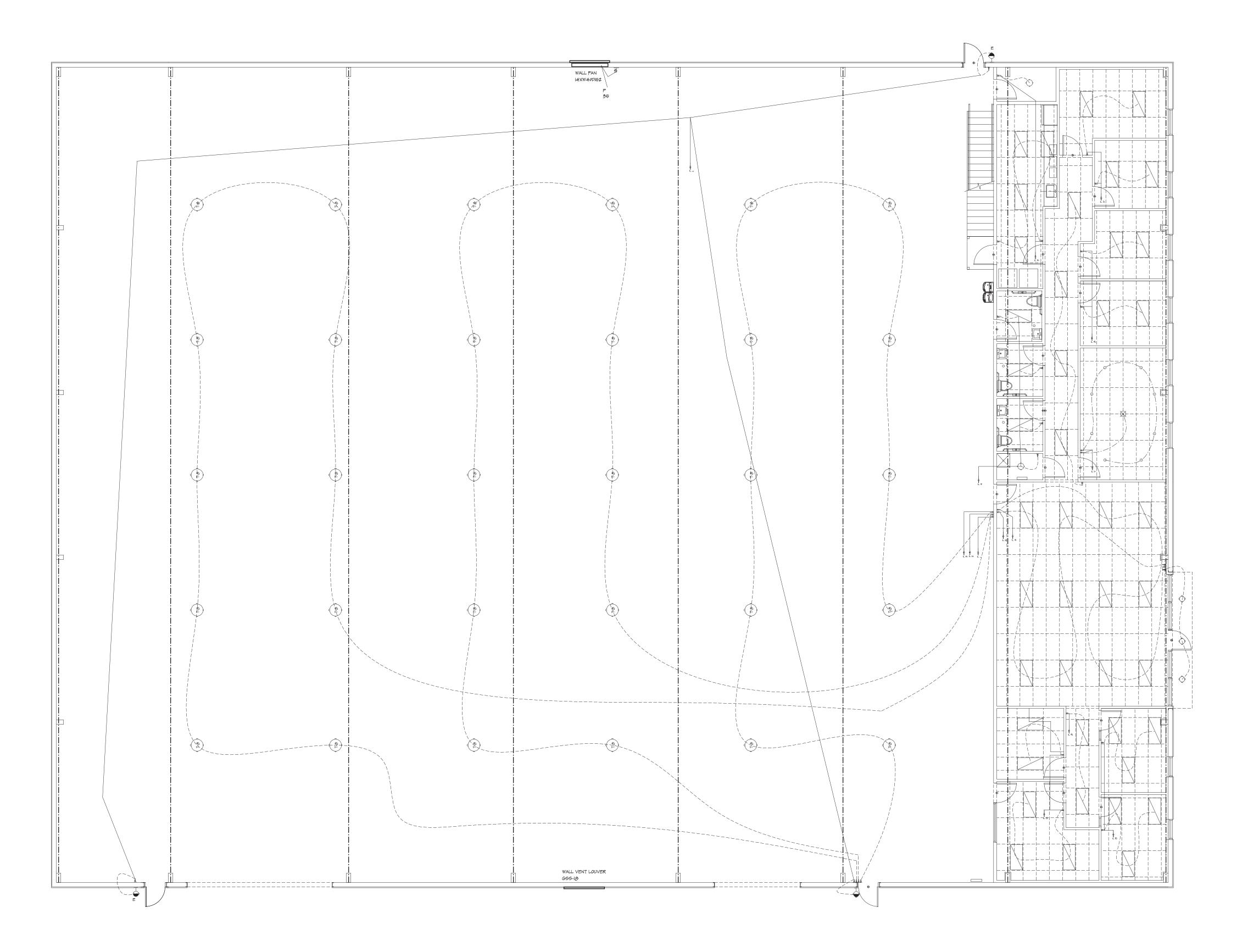
DRYWALL FINISH

2X2 PICKET, TYPICAL

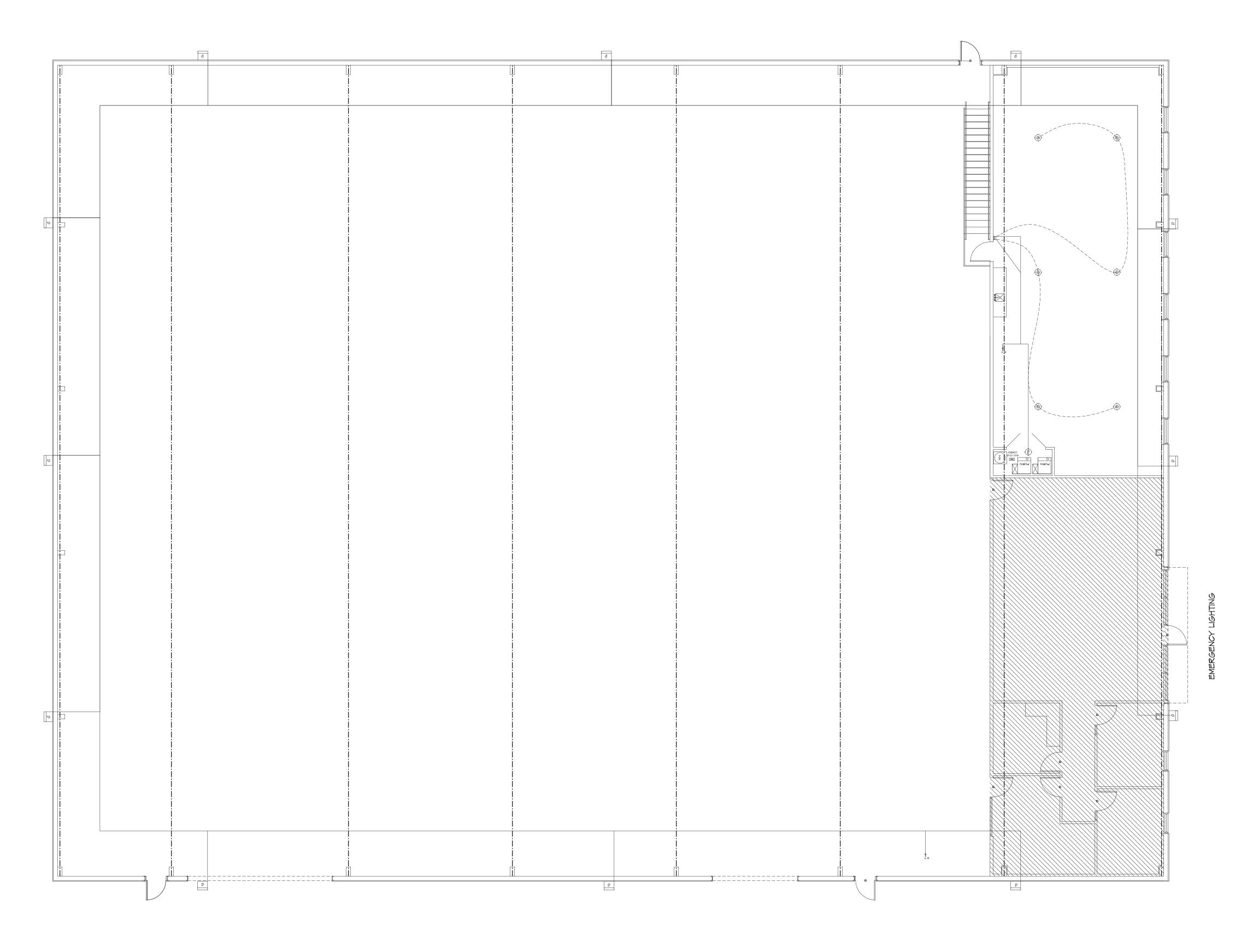
INSIDE FACE

0.135" NOMINAL DIAMETER



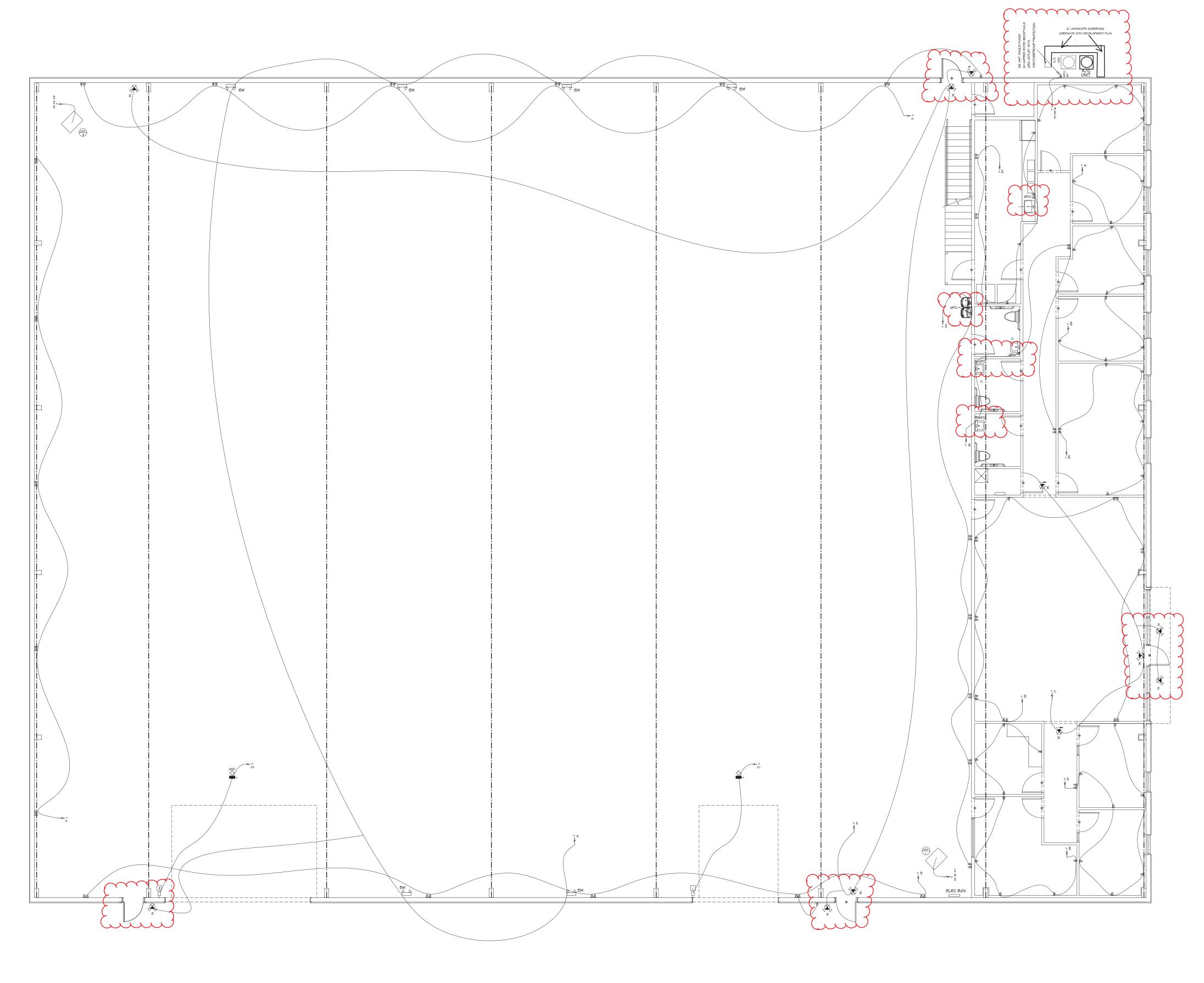






UPPER LEVEL LIGHTING PLAN



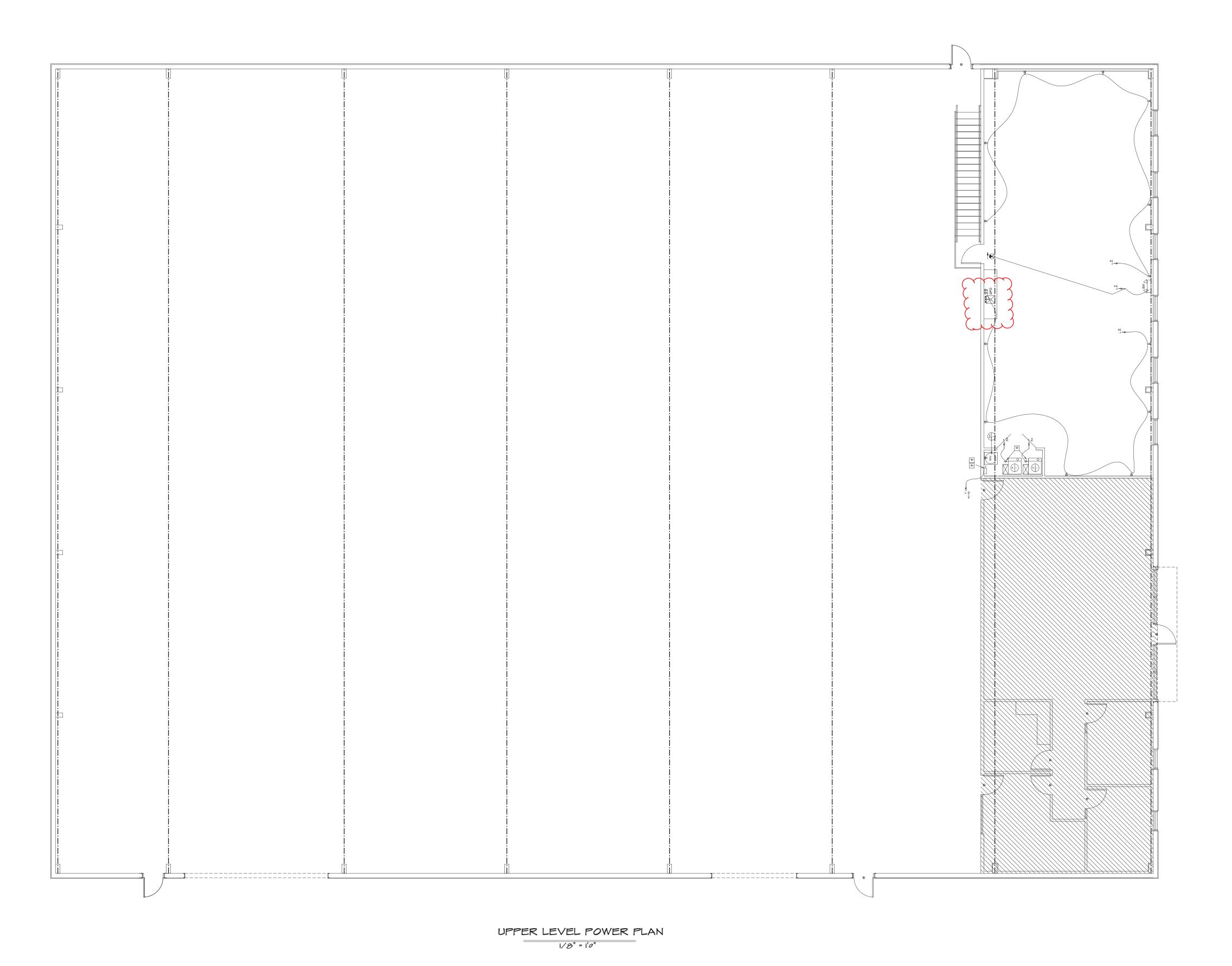






RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
03/03/2025





## ELECTRICAL RISER DIAGRAM

#### RISER DIAGRAM NOTES

I. UTILITY COMPANY POLE MOUNTED TRANSFORMER WITH 208Y/I20V, 3-PHASE 4-WIRE SECONDARY, VERIFY AFC AT TRANDFORMER SECONDARY WITH UTILITY COMPANY.

2. 400A/3P, NON-FUSED, NEMA 3R DISCONNECT SWITCH.

3. (2) 2" PVC CONDUITS WITH 4-#3/0 (CU) IN EACH. INSTALL CONDUITS WITH TOP MINIMUM  $3^{1}$ -G" BELOW FINSHED GRADE.

4 UTILITY COMPANY C.T. CABINET AND METER CAN/SOCKET, I-1/4" CONDUIT FOR METERING CABLES.

5. #6 (CU) GROUND WIRE. CONNECT TO  $1/2^{\prime\prime}$  ROUND X  $8^{\prime}$ -0 $^{\prime\prime}$  LONG COPPER CLAD STEEL DRIVEN GROUND ROD.

6. 1/2" C, 1-#1/0 (CU) GROUND WIRE, CONNECT TO 3/4" ROUND X  $10^1-0$ " LONG COPPER CLAD STEEL DRIVEN GROUND ROD.

7. I/2" C, I-#I/0 (CU) GROUND WIRE, CONNECT TO  $20^{1}$ -0" LONG CONDUCTOR IN CONCRETE BUILDING FOOTING.

8. I/2" C, I-#I/0 (CU) GROUNG WIRE. CONNECT TO COLD WATER SERVICE PIPE, AHEAD OF MAIN SHUT-OFF VALVE.

9. I/2" C, I-#I/0 (CU) GROUNG WIRE. CONNECT TO BUILDING STEEL.

10. PANEL 'P' SHALL HAVE SERVICE ENTRANCE LABEL.

## ELECTRICAL GENERAL NOTES

I. INSTALLATION SHALL COMPLY WITH LATEST EDITION OF N.E.C. AND LOCAL AUTHORITY HAVING JURISPICTION

2. CONTRACTOR SHALL BE LICENSED TO PREFORM WORK IN MUNICIPALITY WHERE PROJECT IS LOCATED.

3. ALL WIRING SHALL BE INSTALLED IN CONDUIT, EMT CONDUIT WITH SET SCREW FITTINGS MAY BE UTILIZED WHERE PERMITTED BY CODE, MINIMUM CONDUIT SIZE SHALL BE 1/2". IN WOOD FRAMING CONVENTIONAL NM ROMEX WIRE SHALL BE USED

4. ALL WIRING SHALL BE COPPER WITH 600 VOLT INSULATION AND COLOR CODED.

5. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMIT AND INSPECTION FEES.

6. INSTALL BLANK COVER PLATE ON ALL PULL BOXES AND JUNCTION BOXES.

7. TYPEWRIIEN PANELBOARD DIRECTORY SHALL BE PROVIDED FOR PANELBOARD AND CORRECTLY FILLED OUT.

8. ALL WIRING DEVICES SHALL BE RATED 20 AMP, OR AS NOTED.

9. ALL NEW BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED ABOVE LAY-IN CEILING OR IN WALLS.

10. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF ALL CONDUITS TO NEW EQUIPMENT.

II. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, NEMA I FOR INDOOR AND NEMA 3R FOR OUTDOOR INSTALLATIONS, MANUFACTURED BY SQUARE D, ITE/SIEMENS, GE, CUTLER-HAMMER, OR EQUAL.

12. FURNISH MATERIALS AND LABOR FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.

13. MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE 'UL' LABELS AS REQUIRED.

14 EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE PROVIDED WITH BATTERY BACK-UP FOR MINIMUM OF (90) MINTES. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO HOT LEG OF CIRCUIT, NOT SWITCHED.

IB. E.C. SHALL VERIFY RATINGS, LOCATIONS, AND CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS AND INSTALLED AND/OR CONNECTED BY THE ELECTRICAL CONTRACTOR.

IG. NEW PANELBOARDS SHALL BE ITE/SIEMENS TYPE 'P2' OR EQUAL, WITH BOLT-ON CIRCUIT BREAKERS, ALUMINUM BUS. NEMA I ENCLOSURE, GROUND, AND NEUTRAL BUS. AIC RATING TO MATCH EXISTING SYSTEM, EQUALS BY SQUARE 'D'. G.E., CUTLER-HAMMER OR EQUAL.

17. NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARD SHALL MATE/MATCH PANEL CONSTRUCTION AND AIC RATING.

# ELECTRICAL SYMBOLS

	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL, ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE #12 EXCEPT AS NOTED.
<b></b>  ⊪	CONDUIT RUN UNDERGROUND OR BENEATH FLOOR SLAB
<del></del>	GROUNDING CONDUCTOR #12 EXCEPT AS NOTED
HJ)	WALL MOUNTED JUNCTION BOX
٨	CEILING MOUNTED JUNCTION BOX
	PANELBOARD (SURFACE MOUNTED). INSTALLED W/TOP 6'0" AFF
	DISCONNECT SWITCH. SIZE AS NOTED
■-1	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT
OR	EXIT LIGHT - SINGLE FACE - ARROW AS SHOWN
$\downarrow \Theta \downarrow$	EXIT LIGHT - DOULBE FACEARROW AS SHOWN
<b>*</b>	COMBINATION EXIT/EMERGENCY LIGHT FIXTURE WITH (2) HEADS
	CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT WITH (2) HEADS.
	2'X4' LIGHT FIXTURE
	NIGHT LIGHT FIXTURE, FIXTURE SHALL BE ON 27/7
÷	FLUORESCENT STRIP FIXTURE
	CEILING LIGHT FIXTURE
$\vdash \diamondsuit$	WALL MOUNTED LIGHT FIXTURE
$\vdash$	REMOTE WEATHERPROOF EMERGENCY LIGHT FIXTURE
	WALL PACK LIGHT, 100W COMERCIAL LED, WALL PACK 120-277V 50,000 - HR. LIFE 1P65 COMPLY WITH SECT. 7.260 OF THE UDO
(T-8)	T-8 HIGH BAY LIGHT FIXTURE
\$	SINGLE POLE SWITCH. +3'-10" AFF
\$3	THREE-WAY SWITCH. +3'-10" AFF
\$4	FOUR-WAY SWITCH. +3'-10" AFF
\$05	OCCUPANCY SENSOR. +3'-10" AFF
\$ <sup>D</sup>	DIMMER SWITCH +3'10" AFF. SIZE AS NOTED
PP	OCCUPANCY SENSOR POWER PACK
OS	OCCUPANCY SENSOR.
Ф	DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED
	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP
⊕ <sup>wp</sup>	DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE. HEIGHT AS NOTED
⊕ <sup>GF</sup>	DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION . +1'-6" AFF OR

FOURPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED

ELECTRIC WATER HEATER AND NUMBER

EXHAUST FAN AND NUMBER

FURNACE AND NUMBER

FAN COIL UNIT AND NUMBER

ABOVE FINISHED FLOOR

ELECTRICAL CONTRACTOR

ELECTRIC DRINKING FOUNTAIN

NIGHT LIGHT FIXTURE SHALL BE ON 24/7

HEAT PUMP UNIT AND NUMBER

CONDENSING UNIT AND NUMBER

WH - I

F - 1

FC - 1

# ELECTRICAL PLAN NOTES

- I. INSTALL OUTLET BOX FOR WIRING DEVICE WITH TOP 48" AFF OF GROUND FLOOR
- ON/OFF/STOP PUSH-BUTTON INSTALLED AT 48" AFF OF GROUND FLOOR FOR OVERHEAD DOOR MOTOR CONTROLE.
- 3. 30A, 250V, 2-POLE, 3-WIRE DISCONNECTING MEANS
- 4. 3/4" CONDUIT, 2-#10 AND 1-#10 GROUND WIRE
- 5. 20A, IZOV, I-POLE DISCONNECTING MEANS

		_3	PHASE		<u>400</u> A.	MAIN BR	EAKEF	R 🗆 F	EED TRU LUGS
SECTION 1 OF _	1_	4	WIRE	□ N	IAIN L	UGS ONL	Y	□ S	SUB FEED LUGS
DESCRIPTION	Wire	AMPS		Circ	Circ		AMPS	Wire	DESCRIPTION
5200111111011	Size	AIVII O	Watts	#	#	Watts	7 UVII O	Size	52001111 11011
LIGHTS (BAY)	12	20	1500	1	2	1500	20	12	LIGHTS (BAY)
LIGHTS (BAY)	12	20	1500	3	4	1500	20	12	LIGHTS (BAY)
LIGHTS	12	20	1500	5	6	1500	20	12	LIGHTS
LIGHTS	12	20	1500	7	8	1500	20	12	LIGHTS
LIGHTS	12	20	1500	9	10	1500	20	12	LIGHTS
EXTERIOR LIGHTS	12	20	1500	11	12	1500	20	12	LIGHTS
LIGHTS	12	20	1920	13	14	1300	20	12	RECEPTACLES (BAY)
LIGHTS	12	20	1920	15	16	1300	20	12	RECEPTACLES (BAY)
EM/EXIT LIGHTS	12	20	1920	17	18	1300	20	12	RECEPTACLES (BAY)
EM/EXIT LIGHTS	12	20	1920	19	20	1300	20	12	RECEPTACLES
EMERGENCY LIGHTS	12	20	1920	21	22	1300	20	12	RECEPTACLES
RECEPTACLES	12	20	1920	23	24	1300	20	12	RECEPTACLES
RECEPTACLES	12	20	1920	25	26	1300	20	12	RECEPTACLES
OHD OPERATOR	12	20	1920	27	28	1300	20	12	RECEPTACLES
OHD OPERATOR	12	20	1920	29	30	1300	20	12	RECEPTACLES
RECEPTACLES	12	20	1920	31	32	1300	20	12	RECEPTACLES
RECEPTACLES	12	20	1920	33	34	1300	20	12	EM/EXIT LIGHTS
WALL FANS	10	20	1920	35	36	1920	20	12	F - 1
		30	2500	37	38	1920	20	12	F - 2
CU-1	10		2500	39	40	4500	30	8	WATER HEATER
		3 \	2500	41	42	4500	2	0	WATER REATER
		35	3300	43	44	3300	35		
UH-1	8	$  \setminus  $	3300	45	46	3300		8	UH-2
		3 \	3300	47	48	3300	3 \		

PANEL P 120/208 VOLTS 0 400 A. BUS

TYPE	MANUFACTURER	LAMP	WATTS/VOLTS	DISCRIPTION
P	BY OWNER	LEP	ТВР	EXTERIOR WALL PACK
E	BY OWNER	LEP	TBD	EXTERIOR RATED ARCHITECTURAL FIXTURE
ЕМ	BY OWNER	LED	TBP	EMERGENCY LIGHTING UNIT, 90 MIN. BATTERY
×	BY OWNER	LED	TBP	EXIT SIGN, UNIVERSAL MOUNT, 90 MIN. BATTERY

INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2012 INTERNATIONAL MECHANICAL, PLUMBING AND FUEL GAS CODES, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.

DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE THE GENERAL DESIGN CONCEPT. THEY DO NOT NECESSARILY INDICATE EACH AND EVERY FITTING OR FEATURE. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT.

REFER TO STRUCTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS CONCERNING

MECHANICAL EQUIPMENT AND SUPPLEMENTAL STEEL.

INSTALL ALL MECHANICAL EQUIPMENT LEVEL, ON PAD, THAT EXTEND A MINIMUM OF 4" BEYOND THE EQUIPMENT FOOTPRINT.

COOLING EQUIPMENT LOCATED WHERE DAMAGE FROM OVERFLOW COULD OCCUR

COOLING EQUIPMENT LOCATED WHERE DAMAGE FROM OVERFLOW COULD OCCUR AND ELSEWHERE AS INDICATED, SHALL BE MOUNTED IN SECONDARY CONTAINMENT PANS WITH HIGH WATER ALARM SENSOR TO SHUT DOWN THE EQUIPMENT. THE DRAIN PAN SHALL BE PIPED TO FLOOR DRAIN, TO EXTERIOR OR ELSEWHERE AS SHOWN, MINIMUM SIZE SHALL BE 3/4".

COORDINATE EXACT LOCATIONS AND ORIENTATION OF EQUIPMENT WITH

ARCHITECTURAL AND STRUCTURAL REQUIREMENTS, EQUIPMENT SHALL BE SCREENED IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS AND AS SHOWN ON ARCHITECTURAL DRAWINGS.

DUCTWORK FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS.

ALL DUCTWORK SHALL BE SHEET METAL, CONSTRUCTED TO SMACNA STANDARDS,

MINIMUM OF 2" WG PRESSURE CLASS AND SEAL CLASS 'C' MINIMUM. ALL LONGITUDINAL AND TRANSVERSE JOINTS TO BE SEALED, EXCEPT AS OTHERWISE NOTED. ROUND AND FLEX DUCT CONNECTIONS SHALL BE MADE WITH SPIN COLLARS WITH EXTRACTORS AND VOLUME DAMPERS.

DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL INCLUDE

AN ALLOWANCE FOR 1" DUCT LINER IN LOW VELOCITY DUCTS WHERE APPLICABLE.

SUPPORT ALL SUSPENDED EQUIPMENT, DUCTWORK AND PIPING INDEPENDANTLY, DIRECTLY FROM STRUCTURAL MEMBERS, NOT METAL DECK.

PROVIDE FLEXIBLE FABRIC CONNECTORS AT ALL DUCTWORK CONNECTIONS TO ROTATING EQUIPMENT. CONNECTORS EXPOSED TO SUNLIGHT SHALL BE MADE OF UV RESISTANT MATERIAL.

ROUND OR OVAL EXPOSED DUCT SHALL BE SPIRAL DUCT, PAINT GRADE IF TO

ROUND OR OVAL EXPOSED DUCT SHALL BE SPIRAL DUCT, PAINT GRADE IF TO BE PAINTED.

ALL ROOF MOUNTING, FLASHINGS AND PENETRATION WORK ASSOCIATED WITH MECHANICAL AND PLUMBING WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE ROOFING MANUFACTURER'S WARRANTY REQUIREMENTS.

IN GENERAL, KEEP DUCTWORK AND PIPING HIGH AS POSSIBLE. IN NO EVENT SHALL HORIZONTAL WORK BE INSTALLED SO THAT HEADROOM IS LESS THAN 7'-6" ABOVE FINISH FLOOR WITHOUT PRIOR APPROVAL.

ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED TO PROVIDE MANUFACTURER'S RECOMMENDED OPERATING AND SERVICE CLEARANCES FOR ALL EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS AND DIFFERING CLEARANCE REQUIREMENTS OF ACTUAL EQUIPMENT FURNISHED.

ALL FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S

IN GENERAL AND EXCEPT AS OTHERWISE NOTED, DUCTWORK AND PIPING SHALL BE INSTALLED PARALLEL TO COLUMN AND BUILDING WALL LINES. THEY SHALL BE CONCEALED ABOVE CEILINGS, IN CHASES OR WALL CONSTRUCTION OR BELOW FLOORS.

SUPPORT ALL PIPING SYSTEMS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND INDUSTRY STANDARDS TO PREVENT SAGS AND DIPS. PROVIDE STRUTS AND AND PIPE CLAMPS ON 8' CENTERS AND SUPPORT ALL PIPING RISERS AT BASE OF RISER. THE USE OG RISER CLAMPS TO SUPPORT VERTICAL PIPING IS PROHIBITED.

ALL WATER BEARING PIPING SHALL BE SLOPED FOR DRAINAGE WITH BALL DRAIN

VALVES AT LOW POINTS.

SUPPORT ALL SUSPENDED EQUIPMENT, DUCTWORK AND PIPING INDEPENDANTLY, DPROVIDE ACCESS PANELS TO PROVIDE ACCESS TO INACCESSIBLE VALVES, DAMPERS ANY ANY OTHER EQUIPMENT/DEVICES THAT REQUIRE ADJUSTMENT OR REPLACEMENT.

DRAINAGE PIPING SHALL BE SLOPED IN ACCORDANCE WITH CODE, BUT NOT LESS THAN 1/8" PER FOOT FOR 3" AND LARGER PIPING AND 1/4" PER FOOT FOR 2-1/2" AND SMALLER PIPING. ALL INVERT ELEVATIONS SHALL BE COORDINATED WITH THE STRUCTURAL FOOTINGS.

COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS, COLUMN FOUNDATIONS AND OTHER STRUCTURAL CONDITIONS.

PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.

TRAP ALL CHILLED CONDENSATE DRAINS AS DETAILED OR AS REQUIRED. PROVIDE A TRAP DEPTH 1" GREATER THAT SYSTEM FAN DEVELOPED STATIC PRESSURE. INSURE AND CERTIFY THAT CONDENSATE DRAINS ARE POSITIVELY SLOPED AT 1"/20" MINIMUM IN DIRECTION OF FLOW.

REFRIGERANT PIPING SHALL BE TYPE 'ACR' COPPER WITH BRAZED JOINTS OR

CAULK AND SEAL ALL DUCT AND PIPING PENETRATIONS OF EXTERIOR OR DEMISING WALLS.

MANUFACTURER'S STANDARD PRE-CHARGED LINE SETS WITH COMPRESSION JOINTS.

ALL REFRIGERANT PIPING SHALL BE SIZED AND WITH ALL ACCESSORIES AS

RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

REFRIGERANT SUCTION LINES TO BE INSULATED WITH 1" UNICELLULAR INSULATION, ALL JOINTS SEALED. INSULATION SHALL BE 25/50 SMOKE AND FIRE

RATED. PAINT ALL EXTERIOR INSULATION WITH UV RESISTANT PAINT.

ABOVE GROUND WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT CEMENT JOINTS, EXCEPT USE STANDARD WEIGHT NO-HUB CAST IRON IN AIR PLENUMS. VENT PIPING MAY BE SCHEDULE 40 GALVANIZED STEEL WITH

SCREWED JOINTS, PAINT ALL EXTERIOR PIPING WITH UV RESISTANT PAINT.

ABOVE GROUND WATER PIPING SHALL BE TYPE 'L' HARD COPPER WITH LEAD FREE SOLDER JOINTS.

NATURAL GAS PIPING (ABOVE GROUND) SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED JOINTS. CONNECT USING JOINT COMPOUND SUITABLE FOR NATURAL GAS PIPING. ALL EXPOSED BLACK STEEL NATURAL GAS PIPING SHALL BE PROTECTED WITH A RUST INHIBITING COATING IN ACCORDANCE WITH THE PLUMBING CODE.

SERVICE VALVES FOR WATER PIPING SYSTEMS UP THRU 2" SHALL BE 1/4 TURN, 150 LB. BALL VALVE WITH BRONZE CHROME PLATED BALL AND TFE SEATS,

DOMESTIC WATER PIPING SHALL BE INSULATED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET OR COMPARABLE UNICELLULAR INSULATION WITH SMOKE/FLAME RATING OF 25/50. WHEN INSTALLED WITHIN A CHASE ALONG AN EXTERIOR WALL, THE INSULATION SHALL BE 1-1/2" FIBERGLASS AND THE PIPING SHALL BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING WALL INSULATION.

GAS SERVICE VALVES TO BE LUBRICATED PLUG COCKS, ROCKWELL 142 OR 143. CONNECTIONS TO EQUIPMENT SHALL HAVE SERVICE VALVES, 6" MINIMUM DIRT LEG AND UNION OR AT CONTRACTOR OPTION, UL LISTED APPLIANCE FLEXIBLE CONNECTORS MAY BE USED.

PROVIDE PLUMBING FIXTURES AS SCHEDULED OR SELECTED BY OWNER WITH ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. PROVIDE STOP VALVES AND WATER HAMMER ARRESTORS, SIZED AS INDICATED OR PER MANUFACTURER FOR EACH FIXTURE OR EACH GROUP OF FIXTURES. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE FIXTURES.

MEET ALL REQUIREMENTS OF THE ADA FOR ALL FIXTURES REQUIRED TO BE HANDICAP ACCESSIBLE. INSULATE PIPING BENEATH HANDICAP FIXTURES PER ADA, HANDI-LAV-GARD SYSTEM OR EQUIVALENT.

ALL POWER WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. DISCONNECT SWITCHES AND MOTOR STARTERS SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, EXCEPT WHERE SPECIFICALLY INDICATED TO BE FURNISHED BY THE MECHANICAL CONTRACTOR. COORDINATE REQUIRED POWER FOR EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.

ALL CONTROL DEVICES AND INTERLOCK WIRING SHALL THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. CONTRACTOR SHALL FURNISH LOCKING GUARDS FOR DEVICES WHERE INDICATED AND WHERE REQUIRED TO PROTECT THEM FROM PHYSICAL DAMAGE. PROVIDE INSULATED SUBBASES WHERE SENSORS ARE INSTALLED ON 'COLD' OR EXTERIOR WALLS. MOUNT CONTROL DEVICES SUCH AS THERMOSTATS AND SENSORS AT 46" AFF.

CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT HANDLING AND TRANSPORT FOR ITEMS HE FURNISHES AND/OR INSTALLS. HE SHALL BE RESPONSIBLE FOR PROVIDING FOR ACCESS INTO SPACES WHERE WORK IS TO OCCUR.

CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FLASHING AND REPAIR OF ROOFS, BUILDING STRUCTURE, COMPONENTS AND FINISHES ASSOCIATED WITH HIS WORK.

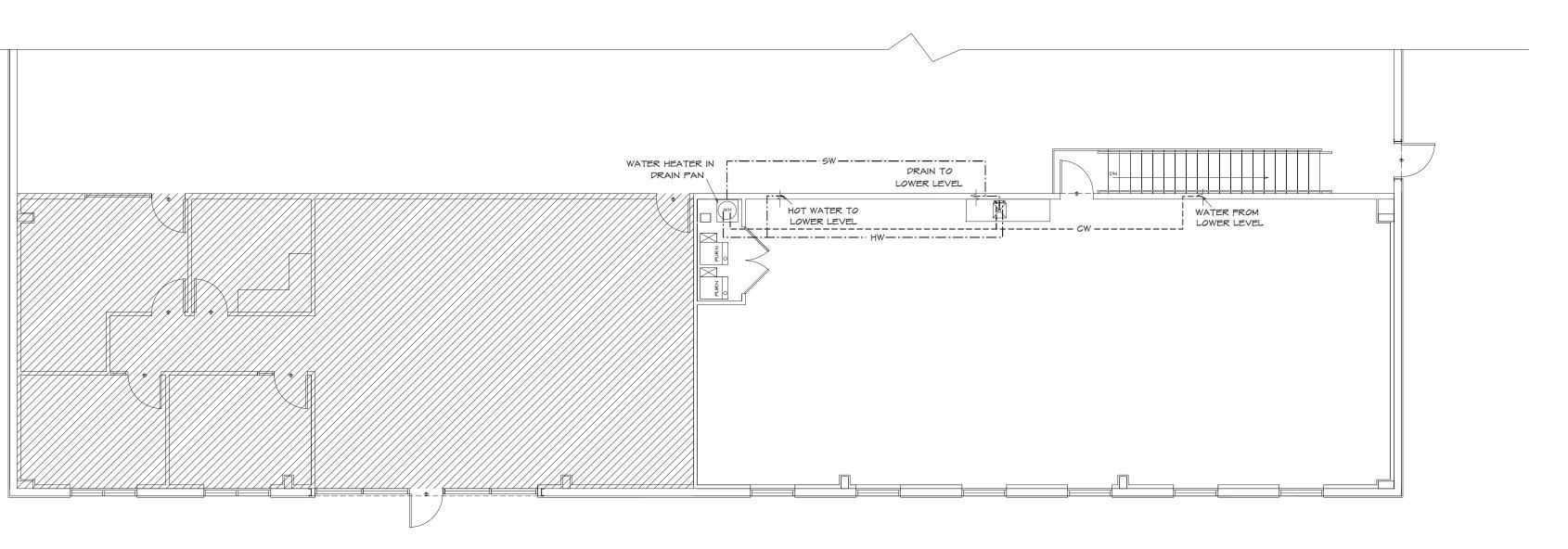
CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. HE SHALL RESTORE REPAIRED OR REMODELED AREAS TO EXISTING CONDITIONS AND NEW CONSTRUCTION AREAS TO NEW CONDITION. ALL REPAIRS SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARCHITECTURAL AND STRUCTURAL PROVISIONS. TO THE GREATEST EXTENT POSIBLE, EXISTING BUILDING MATERIALS SHALL NOT BE DISTURBED.

TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS. PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10' WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.

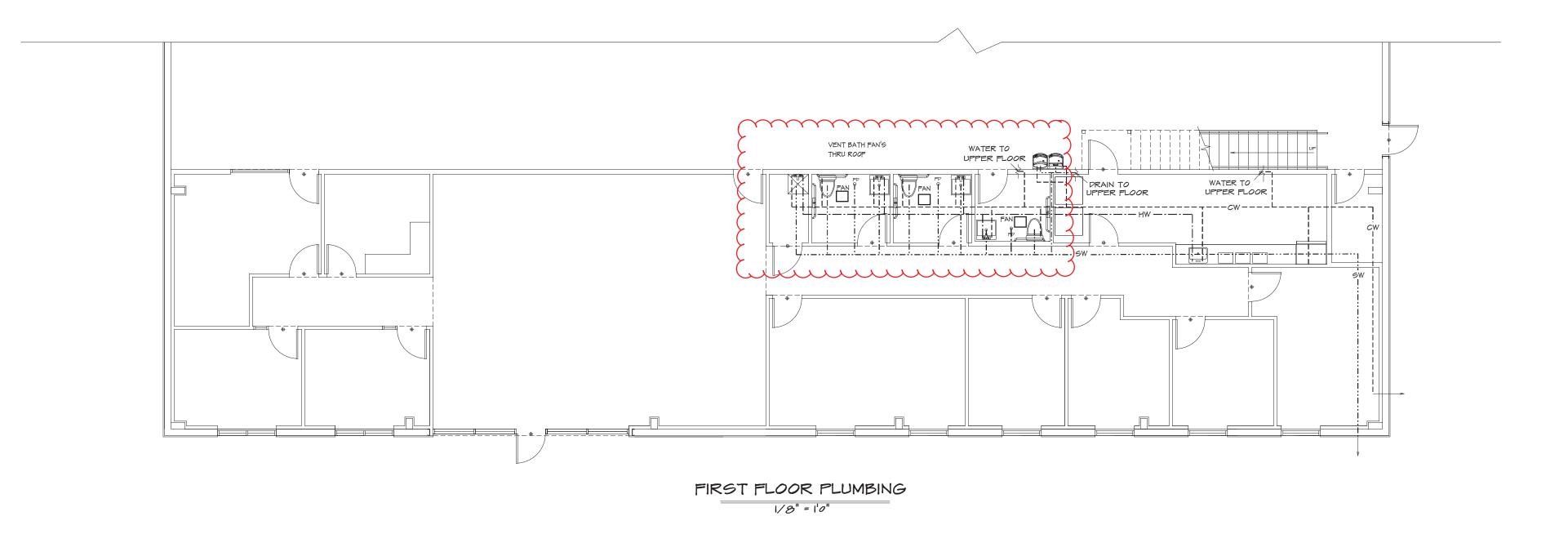


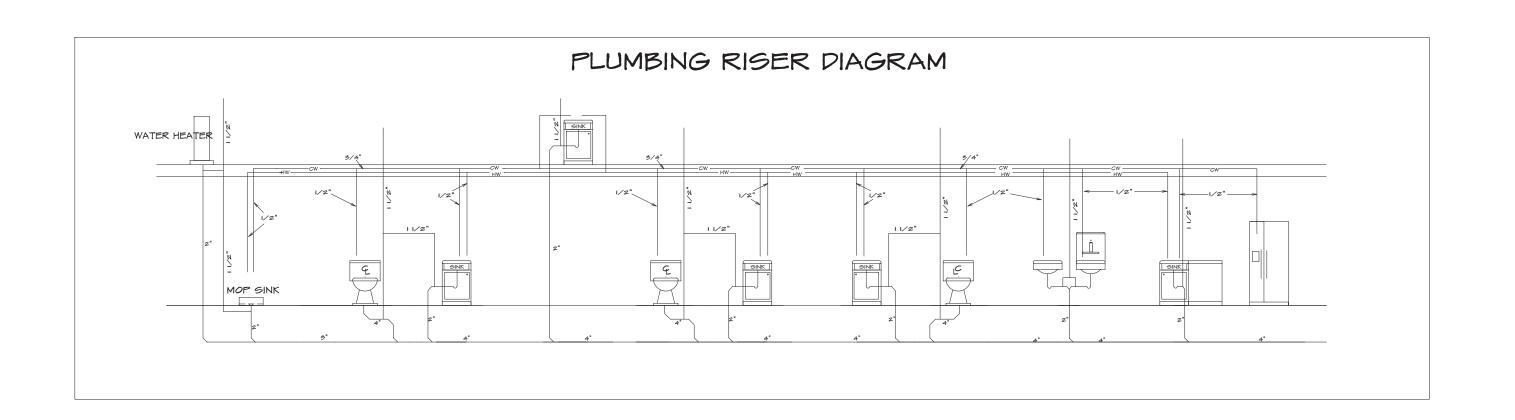
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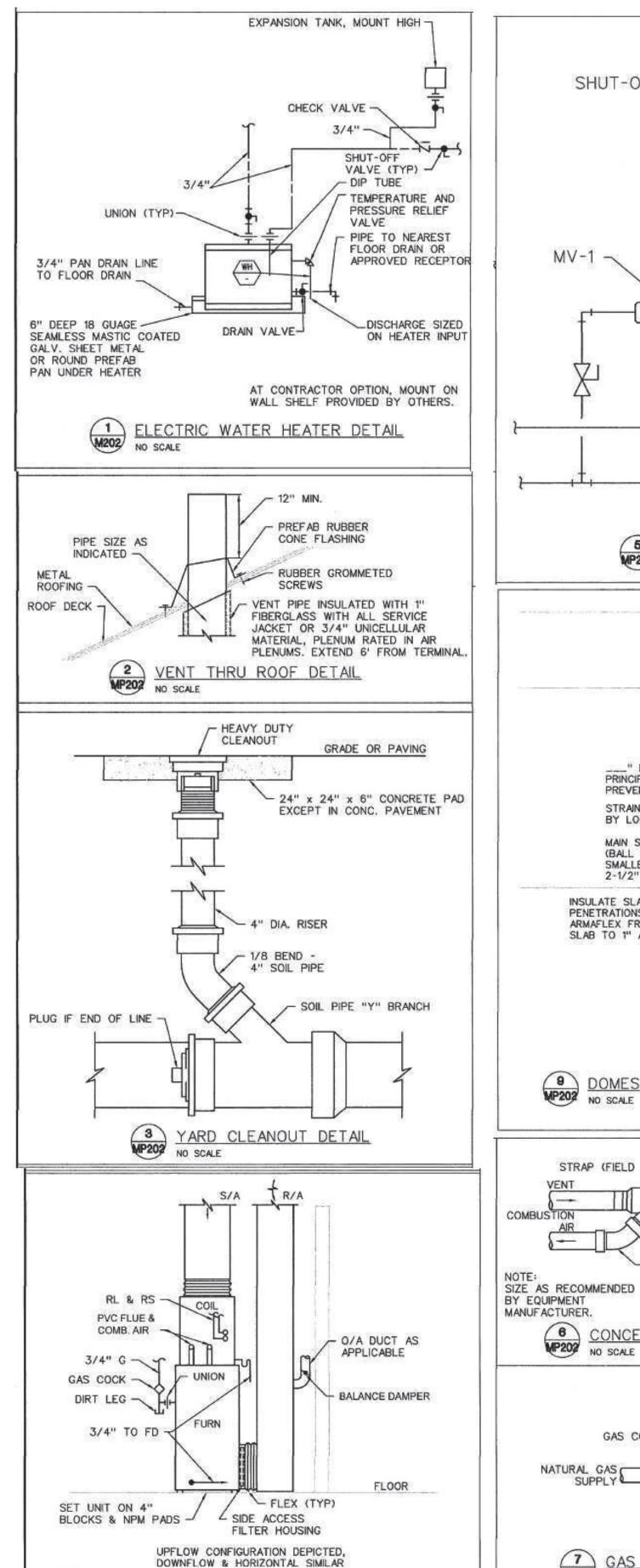
# SECOND FLOOR PLUMBING







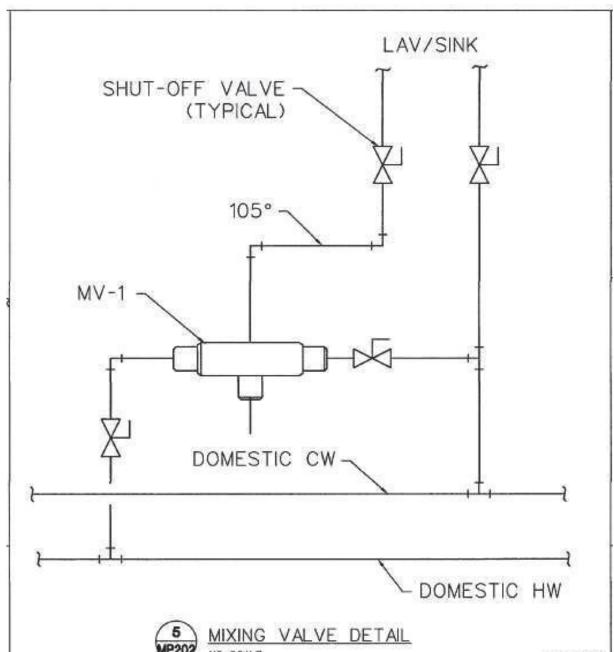
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TYPICAL HIGH EFFICIENCY FURNACE DETAIL

UP THRU 4 TONS

NO SCALE



ARMAFLEX FROM 6" BELOW

STRAP (FIELD SUPPLIED)-

GAS COCK

6 CONCE NO SCALE

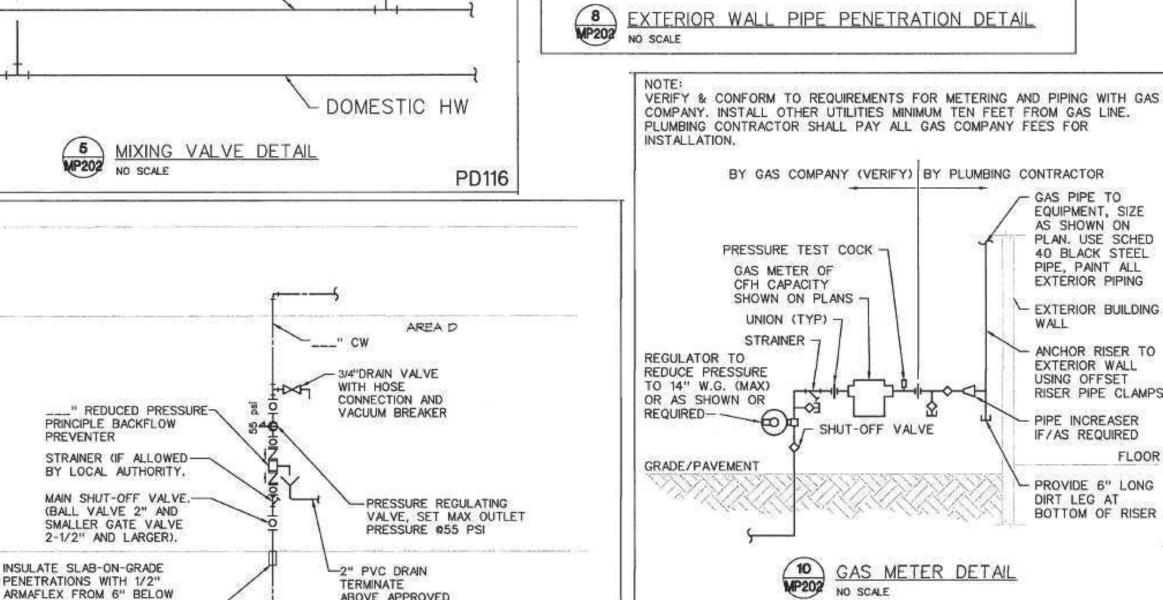
NATURAL GAS

-ELBOW (FIELD

SUPPLIED)

COMBUSTION

SLAB TO 1" ABOVE SLAB, (TYP) -



ABOVE APPROVED

RECEPTOR WITHIN

20' OF BFP

COMBUSTION AIR

- VENT

TO WALL

ALTERNATE LOCATION

1" COMBUSTION

-EXTERIOR WALL

(RE: ARCH)

TO EQUIPMENT

"CW, SEE CIVIL

FOR CONTINUATION

DOMESTIC WATER SERVICE ENTRANCE

CONCENTRIC PVC FLUE TERMINAL DETAIL

GAS EQUIPMENT CONNECTION DETAIL

INSULATION AS

SPECIFIED PASSING

THRU PIPE SLEEVE

PIPING - CAULKING

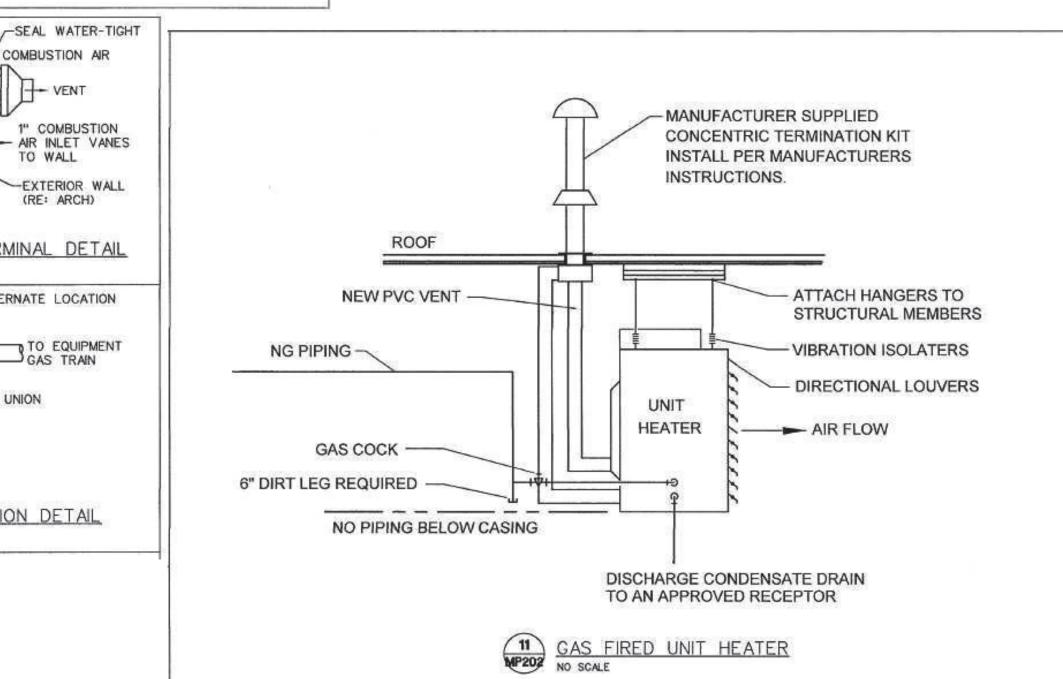
ESCUTCHEON

FIRE SAFING -

WHERE REQUIRED, ASSEMBLY TO CONFORM TO APPROPRIATE UL

FIRE PENETRATION DETAIL.

PACK W/



- EXTERIOR WALL

SLEEVE SIZED TO

SEAL WITH WATER

TIGHT CAULKING &

EXCUTCHEON BOTH

SUIT INSULATION

NON-FEROUS ESCUTCHEON

ON EXTERIOR

#### 605.3 Water service pipe.

Water service pipe shall conform to NSF 61 and shall conform to one of the standards listed in Table 605.3. Water service pipe or tubing, installed underground and outside of the structure, shall have a working pressure rating of not less than 160 psi (1100 kPa) at 73.4°F (23°C). Where the water pressure exceeds 160 psi (1100 kPa), piping material shall have a working pressure rating not less than the highest available pressure. Water service piping materials not third-party certified for water distribution shall terminate at or before the full open valve located at the entrance to the structure. Ductile iron water service piping shall be cement mortar lined in accordance with AWWA C104

MARK NO.	MANUFACTURER	NUFACTURER MODEL T	TVEC	ACUE.	TANK	STORAGE (GALLONS)	1.175(0000) YVQ94(0)	2000 March 10 10 10 10 10 10 10 10 10 10 10 10 10	POINT *F	ELECTRICAL				REMARKS
			TYPE AS	ASME	LINING					KW	VOLT	Ø	HZ	REMARKS
1	LOCHINVAR	KSA030KD	TANK	N	GL	28	8 46		120	4.5	208	38	60	1

**TABLE 605.3** 

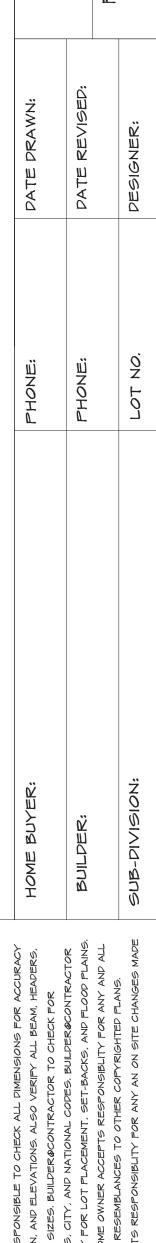
WATER SERVICE PIPE									
MATERIAL	STANDARD								
ylonitrile butadiene styrene (ABS) plastic pipe	ASTM D 1527; ASTM D 2282								
ss pipe	ASTM B 43								
orinated polyvinyl chloride (CPVC) plastic pipe	ASTM D 2846; ASTM F 441; ASTM F 442; CSA B137.6								
orinated polyvinyl chloride/aluminum/chlorinated polyvinyl oride VC/AL/CPVC)	ASTM F 2855								
per or copper-alloy pipe	ASTM B 42; ASTM B 302								
oper or copper-alloy tubing (Type K, WK, L, WL, M or WM)	ASTM B 75, ASTM B 88, ASTM B 251, ASTM B 447								
ss-linked polyethylene (PEX) plastic pipe and tubing	ASTM F 876; ASTM F 877; AWWA C904; CSA B137.5								
ss-linked polyethylene/aluminum/cross-linked polyethylene X-AL- () pipe	ASTM F 1281; ASTM F 2262; CSA B137.10								
ss-linked polyethylene/aluminum/high-density polyethylene X-AL-HDPE)	ASTM F 1986								
tile iron water pipe	AWWA C151/A21.51; AWWA C115/A21.15								
vanized steel pipe	ASTM A 53								
vethylene (PE) plastic pipe	ASTM D 2239; ASTM D 3035; AWWA C901; CSA B137.11								
yethylene (PE) plastic tubing	ASTM D 2737; AWWA C901; CSA B137.1								
yethylene/aluminum/polethylene (PE-AL-PE) pipe	ASTM F 1282; CSA B137.9								
yethylene of raised temperature (PE-RT) plastic tubing	ASTM F 2769								
/propylene (PP) plastic pipe or tubing	ASTM F 2389; CSA B137.11								
rvinyl chloride (PVC) plastic pipe	ASTM D 1785; ASTM D 2241; ASTM D 2672; CSA B137.3								
inless steel pipe (Type 304/304L)	ASTM A 312; ASTM A 778								
inless steel pipe (Type 316/316L)	ASTM A 312; ASTM A 778								

FIXTURE	WASTE	VENT	COLD	HOT
Water Closet (ft)	4"	2"	1/2"	
Water Closet (fv)	4"	2"	1"	
Urinal	2"	1 1/2"	3/4"	<u> </u>
Lavatory	1 1/2"	1 1/2"	1/2"	1/2"
Sink	2"	1 1/2"	1/2"	1/2"
Triple Sink	2"	1 1/2"	(2) ½"	(2) 1/2
Shower, Tub	2"	1 1/2"	1/2"	1/2"
Water Fountain	1 1/2"	1 1/2"	1/2"	
Janitor Sink (flr)	3"	2"	3/4"	3/4"
Janitor Sink (wall)	2"	1 1/2"	1/2"	1/2"
Floor Drain	2"	1 1/2"		
Floor Sink	3"	2"	39 <del>517535</del>	
Egpt Floor Drain	3"	2"		8 2
Hub Drain	2"	1 1/2"	3242	722
Dishwasher	2"	1 1/2"	Retailer.	1/2"
Washer Box	2"	1 1/2"	1/2"	1/2"
Ice Maker	- TEE		1/2"	_ ====
FPWH, HB		-	3/4"	-

- 1. Minimum waste or vent size below slab on grade shall be 2".
- 2. Size as shown on drawings and diagrams, but not less than listed.

# PLUMBING FIXTURE SCHEDULE

- 1. INSTALL PLUMBING FIXTURES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S DRAWINGS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WATER-CONSERVING FIXTURES AND APPURTENANCES IF/AS REQUIRED BY LOCAL AUTHORITIES. CONFIRM ALL LOCATION AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS. CAULK FIXTURES TO WALL/FLOOR. SET COUNTER MOUNTED SINKS AND LAVATORIES IN A BED OF CAULK. THE SPECIFIED PLUMBING FIXTURES, OR APPROVED EQUALS, SHALL BE USED UNLESS OTHERWISE NOTED OR INDICATED
- 2. WATER CLOSET, TOTO #CSC744SL.01, FLOOR MOUNTED, CONSTRUCTED OF VITREOUS CHINA, MEETING ANSI A-117.1 AND ADA BARRIER-FREE REQUIREMENTS, 17" HIGH, 1.6-GALLON FLUSH, CLOSE-COUPLED TANK DESIGN WITH ELONGATED BOWL AND SIPHON JET ACTION. TANK SHALL BE VITREOUS CHINA WITH COVER, 3/8" FLEXIBLE RISER WITH LOOSE KEY ANGLE STOP VALVE, CHROME-PLATED BRASS TRIP LEVER AND MANUFACTURER'S BOLT CAPS. PROVIDE BENKE #527 WHITE ELONGATED OPEN FRONT SEAT LESS COVER, PERMA BUMPER.
- 3. LAVATORY, TOTO #LT307.4 (20"X18"), WALL-HUNG TYPE, CONSTRUCTED OF VITREOUS CHINA, MEETING ANSI A-117.1 AND ADA BARRIER-FREE REQUIREMENTS, LAVATORY SHALL HAVE 4-INCH FAUCET CENTERS AND DRILLED FOR CONCEALED ARM CARRIER. PROVIDE 3/8-INCH FLEXIBLE RISER W/ANGLE SUPPLIES WITH LOOSE KEYY STOPS, 1-1/4-INCH INLET 1-1/2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW. PROVIDE DELTA #523-WFOGHDF HEAVEY DUTY SINGLE LEVER FAUCET, 4-INCH CENTERS, VANDAL-RESISTANT 2.2 GPM AERATOR, PERFORATED OFFSET GRID DRAIN (W. 1-1/4" TAILPIPE) AND VANDAL-RESISTANT SINGLE LEVER HANDLE, PROVIDE WITH J.R. SMITH CARRIER (TO MATCH WALL TYPE). MOUNT AT ADA HEIGHT AND MAINTAIN CLEARANCES UNDER LAVATORY AS REQUIRED BY ADA REGULATIONS. INSULATE WASTE AND HOT WATER SUPPLY UNDER LAVATORY WITH UNDERSINK PROTECTIVE PIPE COVER, MOLDED, ANTIMICROBIAL, WITH FLUSH REUSABLE FASTENERS, TRUEBRO LAV GUARD.
- 4. ALL FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ECT.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).
- 5. ALL SINKS AND ASSOCIATEDFAUCETS ARE PROVIDED BY THE KEG. PC TO PROVIDE BASKET STRAINER DRAIN, TAILPIPE, 3/8-INCH FLEXIBLE RISER W/ANGLE SUPPLIES WITH LOOSE KEYY STOPS, 1-1/4-INCH INLET 1-1/2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW. PC TO PROVIDE OWNER FAUCETS (DELTA OR EQUAL) TO GO ALONG WITH FIXTURES PROVIDED BY THE KEC UNLESS OTHERWISE NOTED.
- 6. ELECTRIC WATER COOLER, BI-LEVEL BARRRIER FREE WITH STAINLESS STEEL TOP WITH SATIN FINISH, GRANITE POWDER COAT FINISH ON GALVANIZED STEEL CABINET, FRONT AND SIDE TOUCHPAD OPERATORS, FLEX GUARD BUBBLER, 8 GPH @ 90 DEGREES F AMBIENT. PROVIDE 3/8-INCH FLEXIBLE RISER W/ANGLE SUPPLIES WITH LOOSE KEY STOP, AND 1-1/4-INCH INLET 1-1/2-INCH OUTLET CHROME-PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW. MOUNT PER MANUFACTURER'S INSTRUCTIONS AND AS SHOWN ON THE ARCHITECTURAL **PLANS**

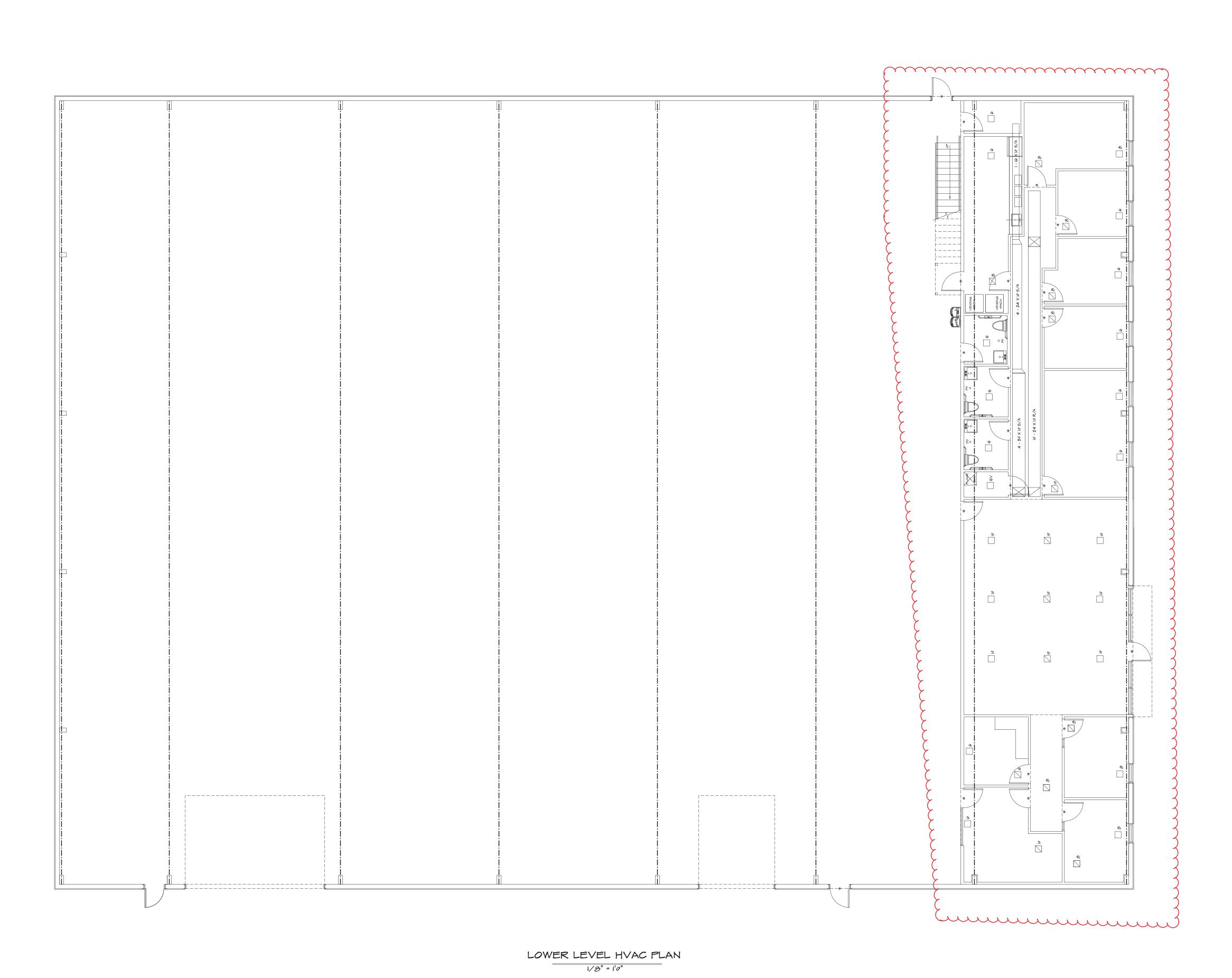


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03/03/2025





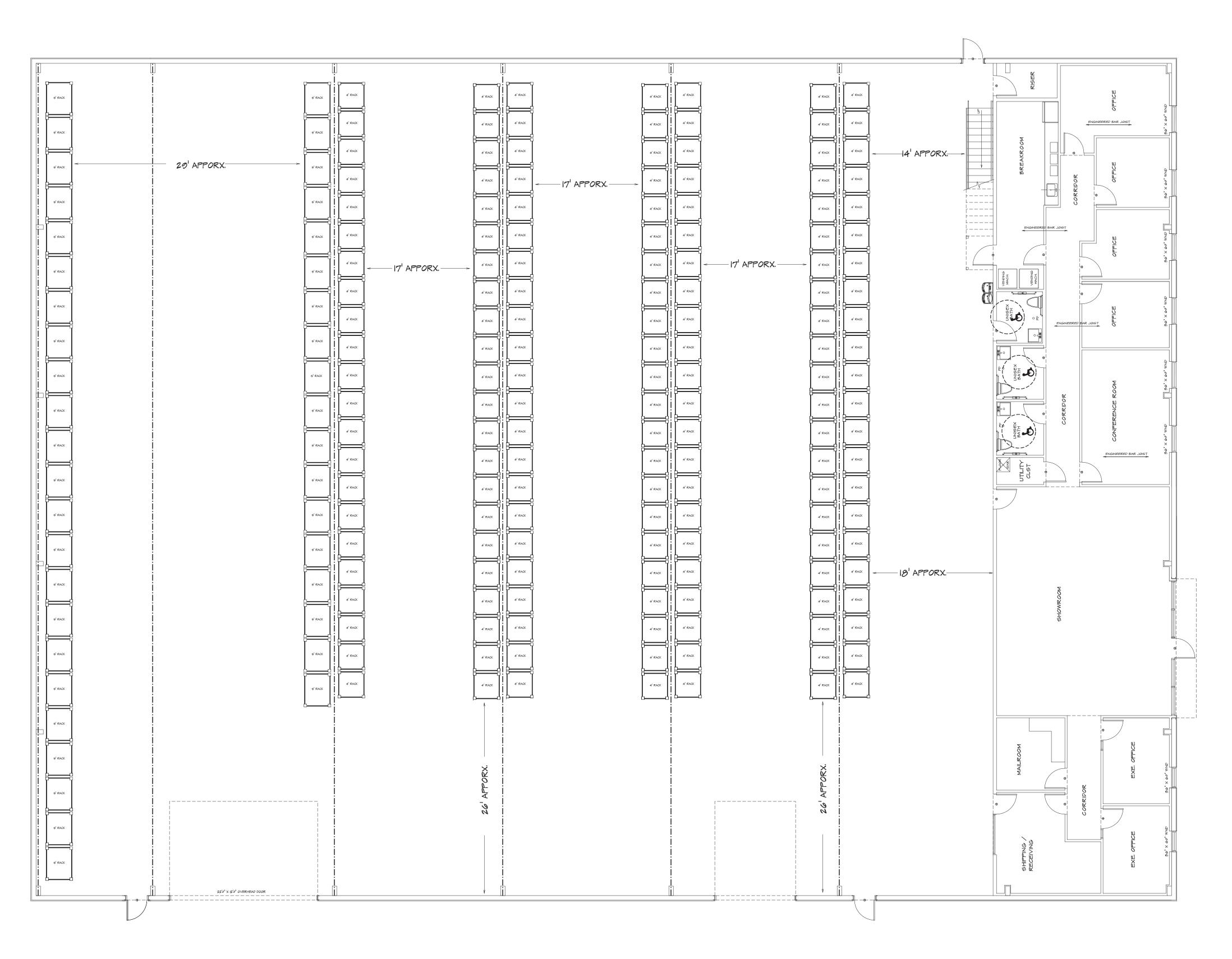
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			WALL VENT LOUVER GGG-18	WALL VENT LOUVER GSS-18	TOTAL VENT LOVICE GOSTON	



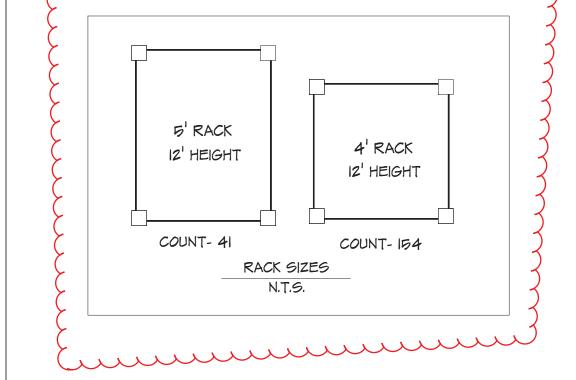
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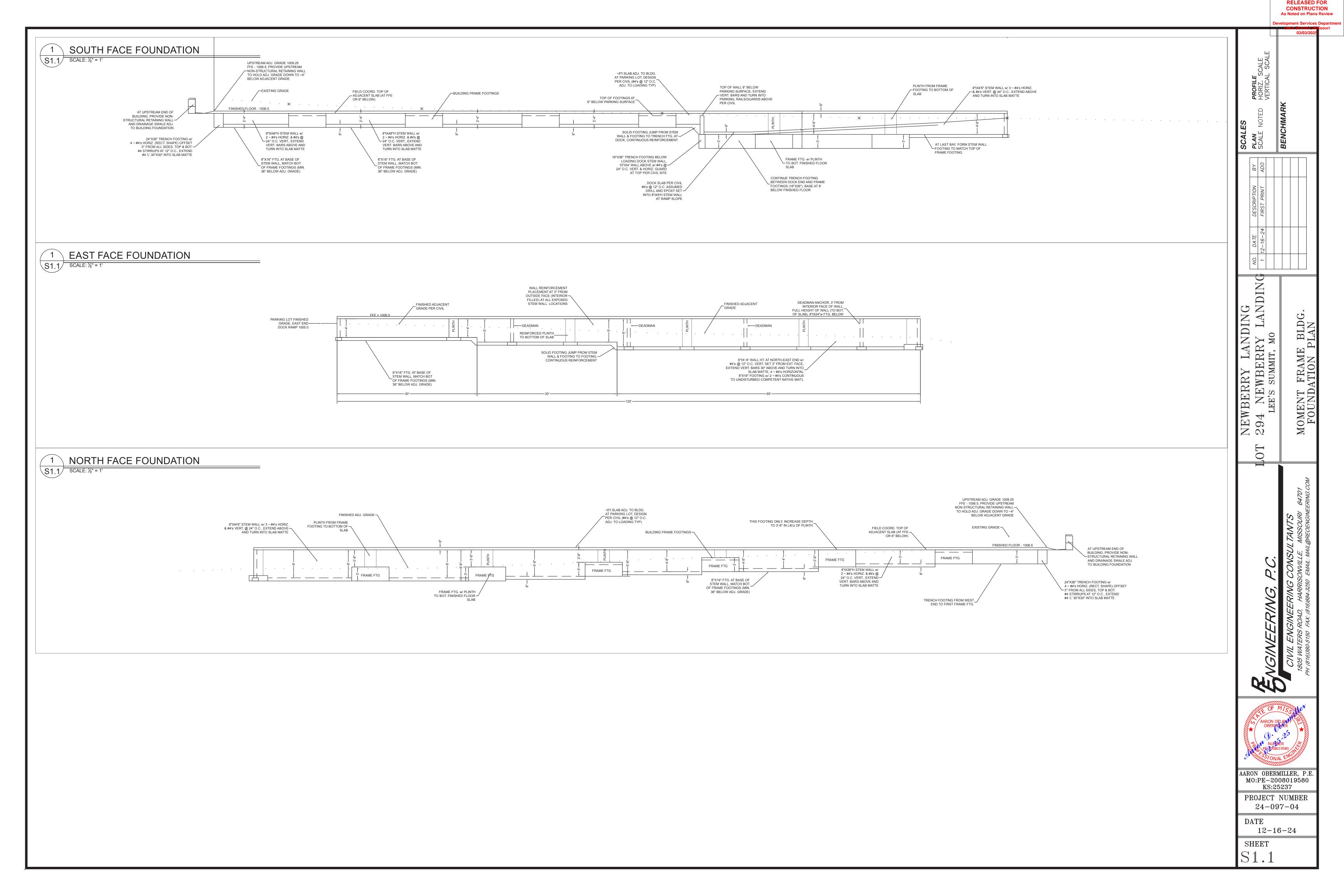
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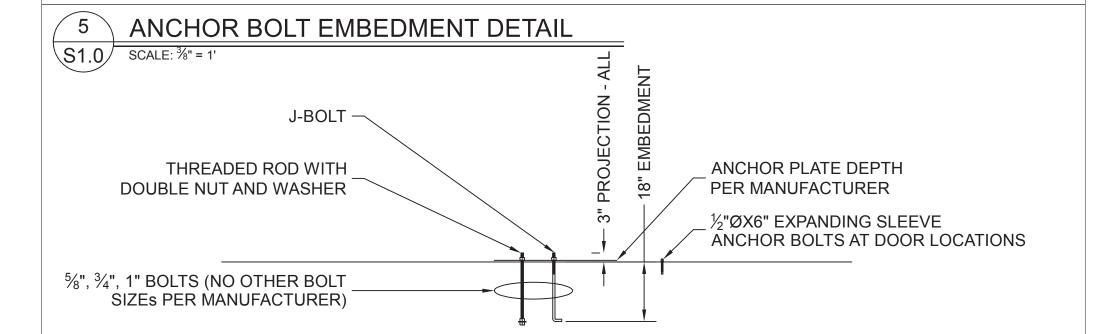


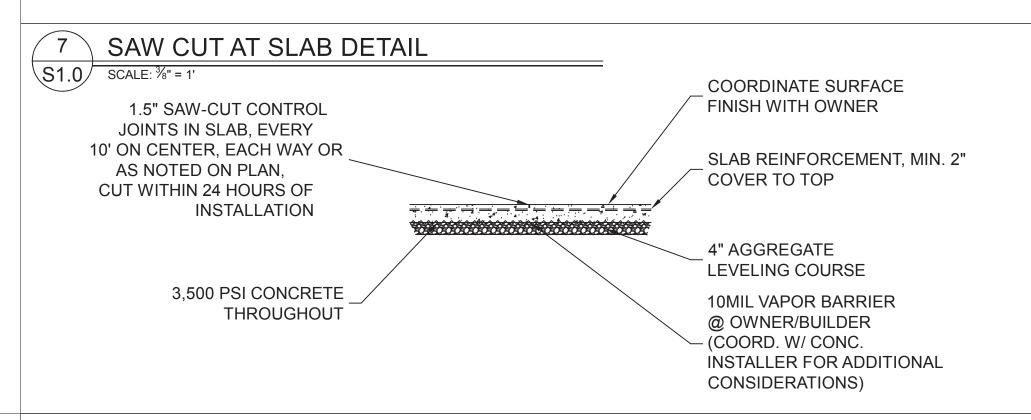


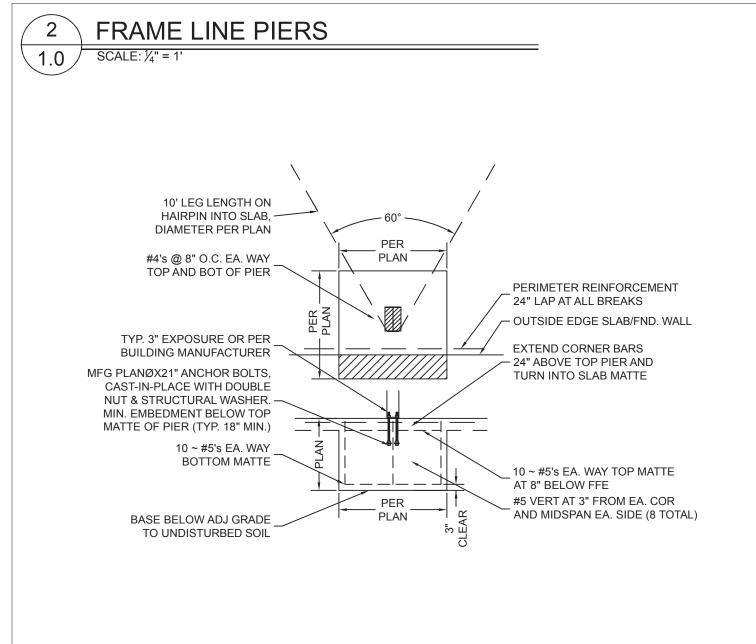


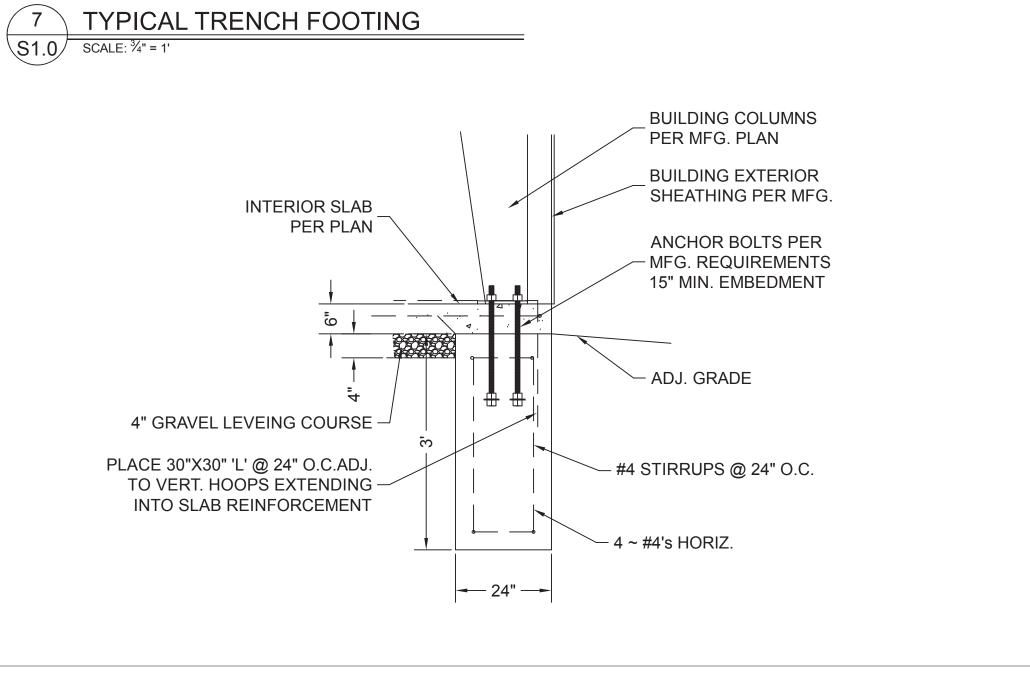
# 4 GENERAL NOTES S1.0

- DESIGN ASSUMES UNDISTURBED NATIVE MATERIAL AT BUILDING LOCATION.
- IF FILL MATERIAL IS PRESENT AT BASE OF PIER EXCAVATION, FILL MATERIAL SHALL BE REMOVED AND  $\frac{3}{4}$ " ROCK TO BASE ELEVATION SHALL BE INSTALLED. ALTERNATELY SUITABLE EARTHEN MATERIAL COMPACTED TO 95% OPTIMUM MAY BE PERMITTED.
- FOOTINGS HAVE BEEN SIZED FOR A MINIMUM LOAD BEARING CAPACITY OF 1,500 PSF WITH LOAD VALUES PER BUILDING MANUFACTURER COLUMN REACTION TABLES.
- 4. SET BOLTS PER MANUFACTURER'S BUILDING PLAN
- MECHANICAL SLEEVE-TYPE WEDGE ANCHORS MAY BE SUBSTITUTED FOR CAST-IN-PLACE. TOTAL EMBEDMENT FROM TOP SLAB TO MATCH THAT OF CAST IN PLACE.
- SAW-CUT RELIEF JOINTS AT 10' ON CENTER EACH WAY (OR EVEN SPACING) AND DIAMOND SHAPE AT COLUMN LOCATIONS. CONTROL JOINTS TO BE APPROXIMATELY 1 INCH IN DEPTH. CONTROL JOINTS TO BE INSTALLED WITHIN 24 HOURS, OR SOONER, FROM SLAB INSTALLATION.
- 7. DESIGN ASSUMES MONOLITHIC POUR
- 8. MIN. ANCHOR EMBEDMENT OF 9" WHERE NOT OTHERWISE SPECIFIED. 6" EMBEDMENT AT NON-BEARING LOCATIONS (TYPICALLY DOOR / WINDOW FRAMES)
- 9. REBAR PLACEMENT PRIMARILY FOR SUPPORT, PLACE WITH 2" COVER TO BASE. SLAB IS NOT FURTHER REINFORCED FOR SHRINKAGE CRACKING, CONTROL JOINTS TO MINIMIZE RANDOM CRACKING REQUIRED.
- 10. CONCRETE DESIGN STRENGTH TO BE MINIMUM 3,500 PSI. INSTALLATION TO CONFORM TO REQUIREMENTS OF ACI 318-11. SURFACE FINISH TO OWNER'S REQUIREMENTS; COORDINATE WITH OWNER. COORDINATE FOR INCREASED CURE TIME FROM VAPOR BARRIER PLACEMENT.
- 11. ADJUST REINFORCEMENT PLACEMENT AT COLUMN LOCATIONS TO AVOID INTERFERENCE WITH COLUMN ANCHOR BOLTS AS NECESSARY.



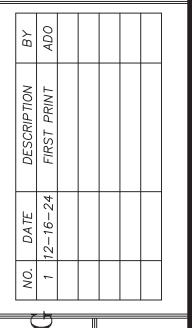






SCALE NOTED HORIZ. SCALE
VERTICAL SCALE
VERTICAL SCALE

BENCHMARK



294 NEWBERRY LANDING
LEE'S SUMMIT, MO
MOMENT FRAME BLDG.

EERING, P.C.

NGINEERING CONSULTANTS

RS ROAD, HARRISONVILLE, MISSOURI 64701



AARON OBERMILLER, P.E. MO:PE-2008019580 KS:25237

PROJECT NUMBER
24-097-04

DATE

12 - 16 - 24

SHEET S1.2

Development Services Department Lee's Summit, Missouri 03/03/2025

	SUMMARY (SINGLE ZONE											
						SPACE OUTDOOR	ZONE AIR	ZONE	ZONE			
			CALCULATED	VENTILATION	AREA OUTDOOR	AIRFLOW IN	DISTRIBUTION	OUTDOOR	OUTDOOR	ZONE	<b>EXHAUST</b>	1
		AREA	OCCUPANT	RATE	AIRFLOW IN	BREATHING ZONE	EFFECTIVENESS (Ez)	AIRFLOW	AIRFLOW	OUTDOOR	REQUIRED	1
		(SQUARE	TOTAL	(CFM/PERS)	BREATHING ZONE	Vbz=RpPz+RaAz	COOLING/HEATING	(Voz=Vbz/Ez)	(Voz=Vbz/Ez)	AIR SETPOINT	(CFM)	1
SYSTEM	SPACE	FEET)	(Pz)	(Rp)	(Ra) CFM/SF	CFM	(NOTE 1)	COOLING	HEATING	(CFM)	(NOTE 5)	REMARKS
FURNACE F1	EXECTUTIVE OFFICE 1	142	1	5	0.06	13.52	1.0/0.8	13.52	16.90	17		
	EXECTUTIVE OFFICE 2	137	1	5	0.06	13.22	1.0/0.8	13.22	16.53	17		
	MAILROOM	113	1	5	0.06	11.78	1.0/0.8	11.78	14.73	15	57	6
	SHOWROOM	916	14	7.5	0.12	214.92	1.0/0.8	214.92	268.65	269		
	SHIPPING & RECEIVING	208	2	5	0.06	22.48	1.0/0.8	22.48	28.10	29		
	CORRIDOR	100	0	0	0.06	6.00	1.0/0.8	6.00	7.50	8		
	TOTAL	1,616	19							355	57	
FURNACE F2	CONFERENCE ROOM	278	14	5	0.06	86.68	1.0/0.8	86.68	108.35	109		
	OFFICE 1	139	1	5	0.06	13.34	1.0/0.8	13.34	16.68	17		
	OFFICE 2	135	1	5	0.06	13.10	1.0/0.8	13.10	16.38	17		
	OFFICE 3	123	1	5	0.06	12.38	1.0/0.8	12.38	15.48	16		
	OFFICE 4	197	1	5	0.06	16.82	1.0/0.8	16.82	21.03	22		
	BREAKROOM	267	14	5	0.06	86.02	1.0/0.8	86.02	107.53	108		
	UNISEX BATHROOM 1	63									70	
	UNISEX BATHROOM 2	66									70	
	UNISEX BATHROOM 3	66									70	
	CORRIDOR	249	0	0	0.06	14.94	1.0/0.8	14.94	18.68	19		
	TOTAL	1,583	32							308	210	<b></b>
	WARFILOLIOF	10,000		40	0.00	4000.00	4.0/0.0	1000.00	4050.00	4050		<del> </del>
	WAREHOUSE	18,000	0	10	0.06	1080.00	1.0/0.8	1080.00	1350.00	1350	0	
	TOTAL	18,000	0							1,350	0	<del> </del>
	MEZZANINE	297	0	10	0.06	17.82	1.0/0.8	17.82	22.28	23		<u> </u>
	TOTAL	297	0	10	0.00	17.02	1.0/0.0	17.02	22.20	23	0	<del>                                     </del>

- 1. ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) DETERMINED FROM TABLE 403.3.1.2 AND IS BASED ON AIR DISTRIBUTION CONFIGURATION IN ACCORDANCE WITH THE 2018 IMC.
- 2. CALCULATION DONE IN ACCORDANCE WITH 2018 IMC, CHAPTER 4.
- 3. VENTILATION AIR PROVIDED BY DIRECT CONNECTION TO THE OUTDOORS IN ACCORDANCE WITH SECTION 401, 2018 IMC.
- 4. BATHROOM MINIMUM EXHAUST AIR PROVIDED AT MINIMUM 70 CFM PER FIXTURE IN ACCORDANCE WITH CHAPTER 4, 2018 IMC.
- 5. SPACE EXHAUST REQUIRED AT THE INDICATED RATE.

