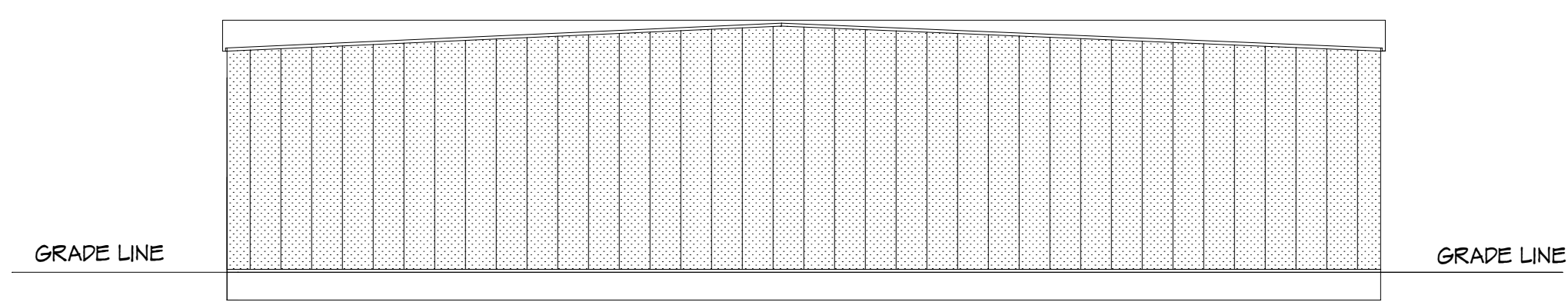
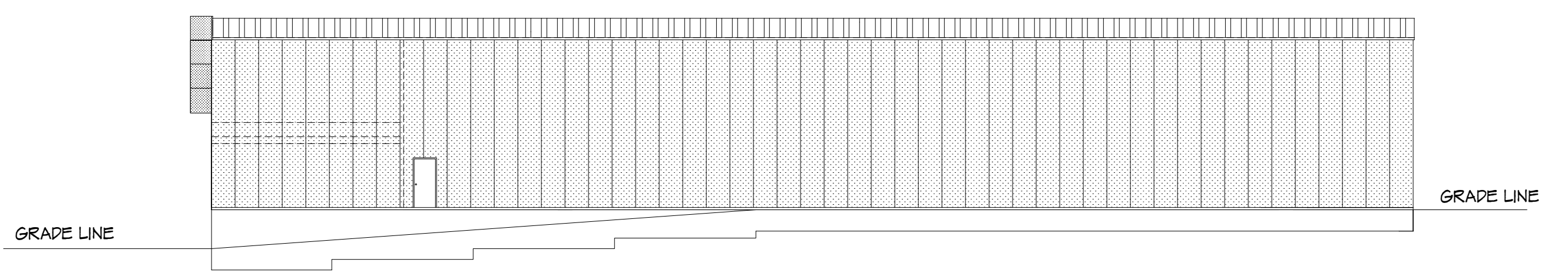


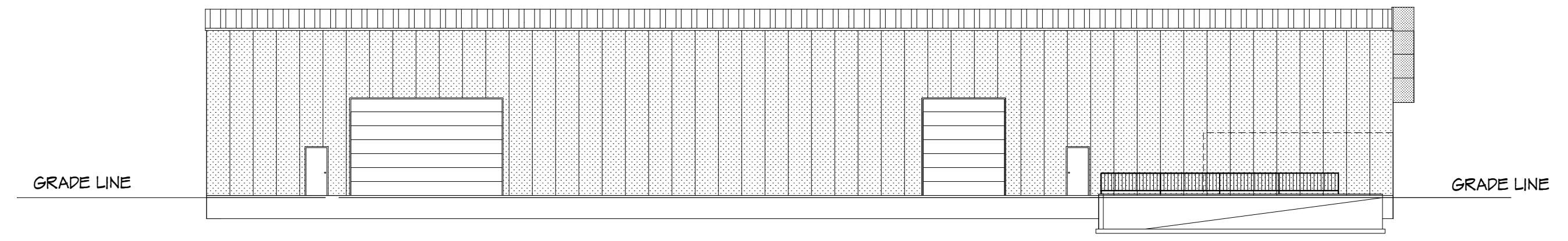
**FRONT ELEVATION**  
1/8" = 1'-0"



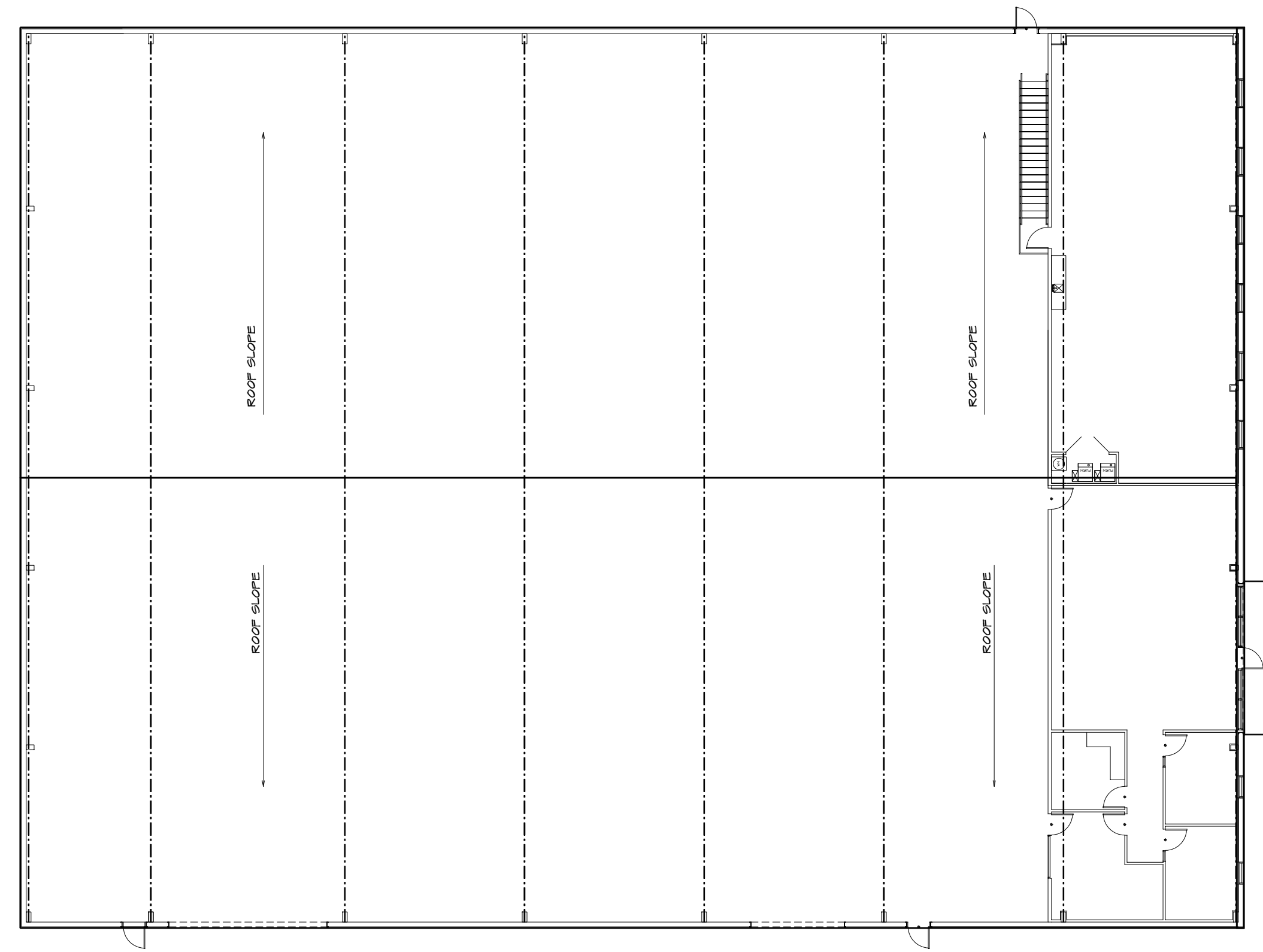
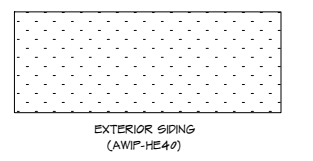
**REAR ELEVATION**  
1/16" = 1'-0"



**RIGHT ELEVATION**  
1/16" = 1'-0"



**LEFT ELEVATION**  
1/16" = 1'-0"



**ROOF ELEVATION**  
1/16" = 1'-0"

**COPE NOTES**

ALL CONSTRUCTION FOR THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES UNLESS OTHERWISE NOTED:  
 IBC 2018 INTERNATIONAL BUILDING CODE  
 IBC 2018 INTERNATIONAL MECHANICAL CODE  
 IBC 2018 INTERNATIONAL PLUMBING CODE  
 IBC 2018 INTERNATIONAL FIRE AND SAFETY CODE  
 IBC 2018 INTERNATIONAL ENERGY CONSERVATION CODE  
 IBC 2018 INTERNATIONAL ACCESSIBLE AND UNIVERSAL BUILDING AND FACILITIES ACT  
 IBC 2018 INTERNATIONAL DEVELOPMENT CODE  
 IBC 2018 INTERNATIONAL RETAIL AND SERVICE BUILDINGS ACT  
 SHALL BE IN COMPLIANCE WITH THE AMERICAN WITH DISABILITIES ACT  
 TENANT USE OCCUPANCY CLASSIFICATION (PREMISE) GROUP S-1  
 (DORMERS) GROUP S-2  
 TYPE OF CONSTRUCTION (IBC 602 TYPE V-B)  
 AUTOMATIC OPERABLE WINDOW FULLY OPERABLE (DESIGNED BY OTHERS)  
 TYPICAL AREA - OFFICE - 200 PSF (DESIGNED BY OTHERS)  
 TYPICAL AREA - OFFICE - 200 PSF (DESIGNED BY OTHERS)  
 OCCUPANT LOAD (TABLE 104.10.1)  
 OFFICE: 100/SQ FT  
 MECHANICAL: 200/SQ FT  
 PLUMBING: 200/SQ FT  
 WATER CLOSET: 100/SQ FT  
 WASH SINK: 100/SQ FT  
 WASH SINK: 100/SQ FT  
 WASH SINK: 100/SQ FT  
 WASH SINK: 100/SQ FT  
 WASH SINK: 100/SQ FT  
 WASH SINK: 100/SQ FT

**GENERAL NOTES**

1. ALL DIMENSIONS UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS IN THE FIELD AND ADJUST THE DIMENSIONS OF ALL DIMENSIONS BEFORE PROCEEDING.
3. PROVIDER IS RESPONSIBLE FOR ALL DIMENSIONS FOR SUPPORT.
4. CONTRACTOR TO DESIGN, COORDINATE, INSTALL, ETC. ALL GARDENING/LANDSCAPE WITH OWNER.
5. COORDINATE ALL PAINT, JOIST, WALL AND DOOR LOCATION W/ OWNER BEFORE CONSTRUCTION.
6. COORDINATE ALL FINISHES WITH OWNER.
7. PROVIDE FIRE RATED PARTITION AS REQUIRED BY FIRE RATED WALL.
8. FIELD VERIFY ALL DIMENSIONS AND CONSTRUCTION.
9. CONTRACTOR TO COORDINATE W/ OWNER ON ALL ITEMS SUPPLIED AND AFFECTING THE CONTRACTORS WORK.
10. NEW WALL CONSTRUCTION SHALL BE 24 GAUGE STEEL TRACK AND BULGING STUDS SET 24" TO WALL BY 1/2" SYSTEM BOUND WALL STUDS SHALL BE DESIGNED IN ACCORDANCE WITH OTHER APPROVED AND AS SHOWN.
11. WALL CONSTRUCTION TO BE PROVIDED BY OTHER TO HAVE THE OTHER UNDERSTANDING SURFACE TO A HEIGHT NOT LOWER THAN 8" OFF.

**LOCATION PLAN / KEY PLAN**

DATE DRAWN:	DATE REVISED:	PHONE:	LOT NO.:	SHEET NO.:
DATE REVISED:	DATE REVISED:	PHONE:	LOT NO.:	SHEET NO.:
DESIGNER:	DESIGNER:	PHONE:	LOT NO.:	SHEET NO.:
DESIGNER:	DESIGNER:	PHONE:	LOT NO.:	SHEET NO.:
DESIGNER:	DESIGNER:	PHONE:	LOT NO.:	SHEET NO.:

THE ARCHITECTURE IS RESPONSIBLE TO CHECK ALL DIMENSIONS FOR CORRECTNESS BETWEEN FLOOR, FINISH AND ELEVATIONS AND VERIFY ALL DIMENSIONS, LOCATIONS AND COLUMN SIZES. SUBCONTRACTORS ARE RESPONSIBLE TO CHECK THE LOCATION AND DIMENSIONS OF ALL DIMENSIONS AND VERIFY ALL DIMENSIONS, LOCATIONS AND COLUMN SIZES. SUBCONTRACTORS ARE RESPONSIBLE TO CHECK THE LOCATION AND DIMENSIONS OF ALL DIMENSIONS AND VERIFY ALL DIMENSIONS, LOCATIONS AND COLUMN SIZES. SUBCONTRACTORS ARE RESPONSIBLE TO CHECK THE LOCATION AND DIMENSIONS OF ALL DIMENSIONS AND VERIFY ALL DIMENSIONS, LOCATIONS AND COLUMN SIZES. SUBCONTRACTORS ARE RESPONSIBLE TO CHECK THE LOCATION AND DIMENSIONS OF ALL DIMENSIONS AND VERIFY ALL DIMENSIONS, LOCATIONS AND COLUMN SIZES.

5" - 3000/PSI SLAB ON GRADE OVER 6" CRUSHED STONE  
REFER TO GEOTECHNICAL REPORT FOR MOISTURE  
CONTROL AND SUB GRADE PREP.

FOOTING DESIGN BASED UPON GEOTECHNICAL REPORT  
DATED APRIL 23RD, 2018, KCTE PROJECT #620-18-030

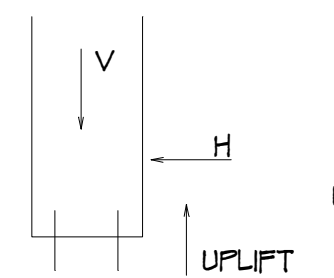
REFER TO METAL BUILDING PLANS FOR ANCHOR BOLT DETAIL

REFER TO METAL BUILDING PLANS FOR O.H. DOOR AND  
WALK DOOR DETAILS

#6 HAIRPIN X 20'-0" AROUND  
EACH SET OF A.B. TYPICAL  
@ ALL COLUMNS

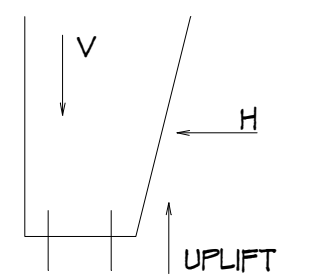


END WALL REACTION



V MAX = 11.73/K  
H MAX = 4.42/K  
UPLIFT MAX = 6.65/K

SIDE WALL REACTION

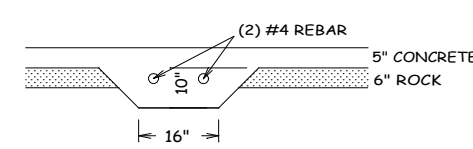


V MAX = 52/K  
H MAX = 14.4/K  
UPLIFT MAX = 30.5/K

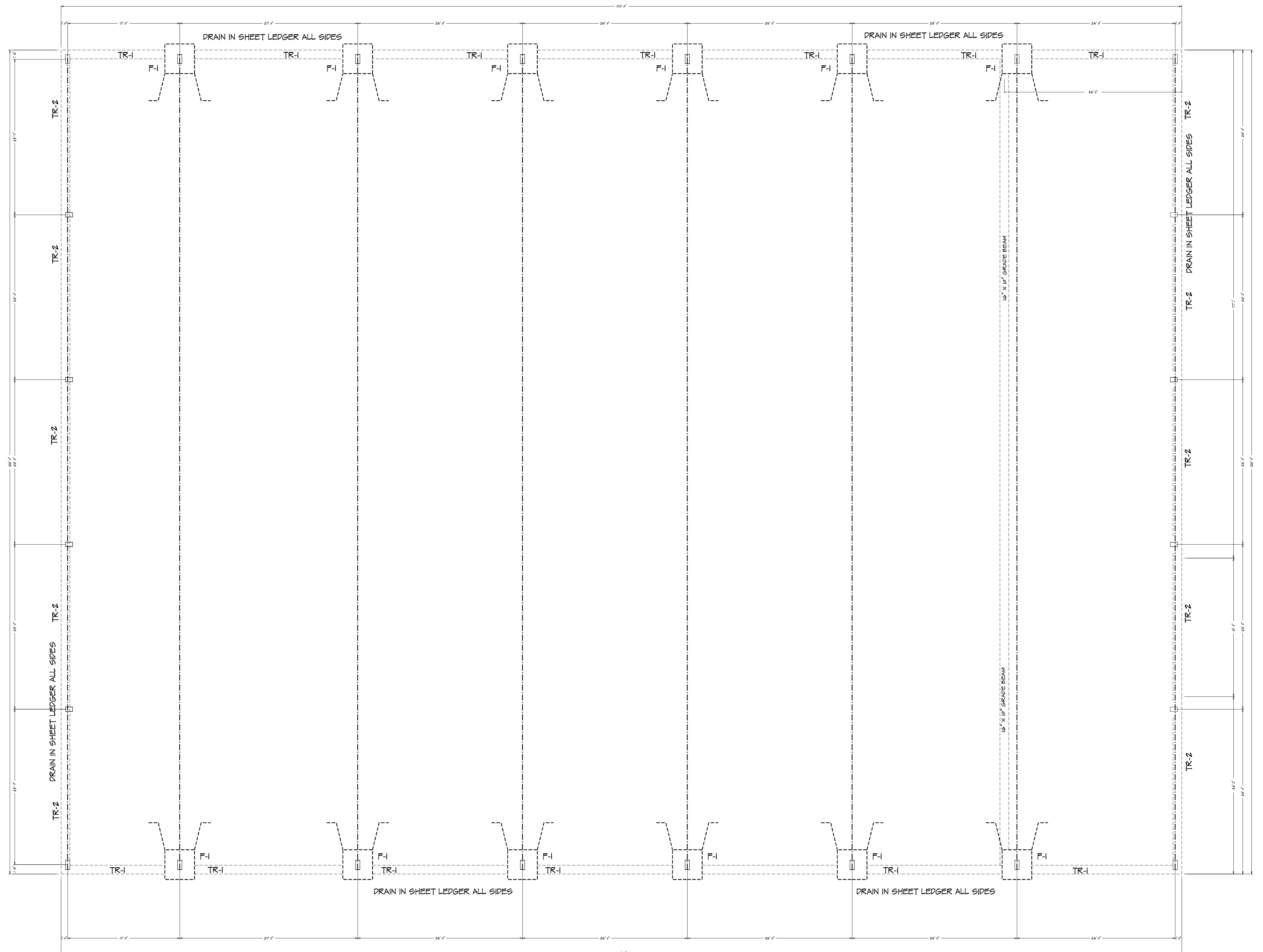
FOOTING SCHEDULE

	WIDTH	LENGTH	THICKNESS	REINFORCEMENT
F-1	8'-0"	8'-0"	3'-0"	(10) #6 @ 5'-6" O.C. EACH WAY TOP AND BOTTOM
TR-1	12"	CONT.	3'-0"	2 - #5 TOP AND BOTTOM W/7 CORNER BARS W/7- #4 STIRRUPS @ 48" O.C.
TR-2	24"	CONT.	3'-0"	3 - #5 TOP AND BOTTOM W/7 CORNER BARS W/7- #4 STIRRUPS @ 48" O.C.

FF = 1006' - 6"



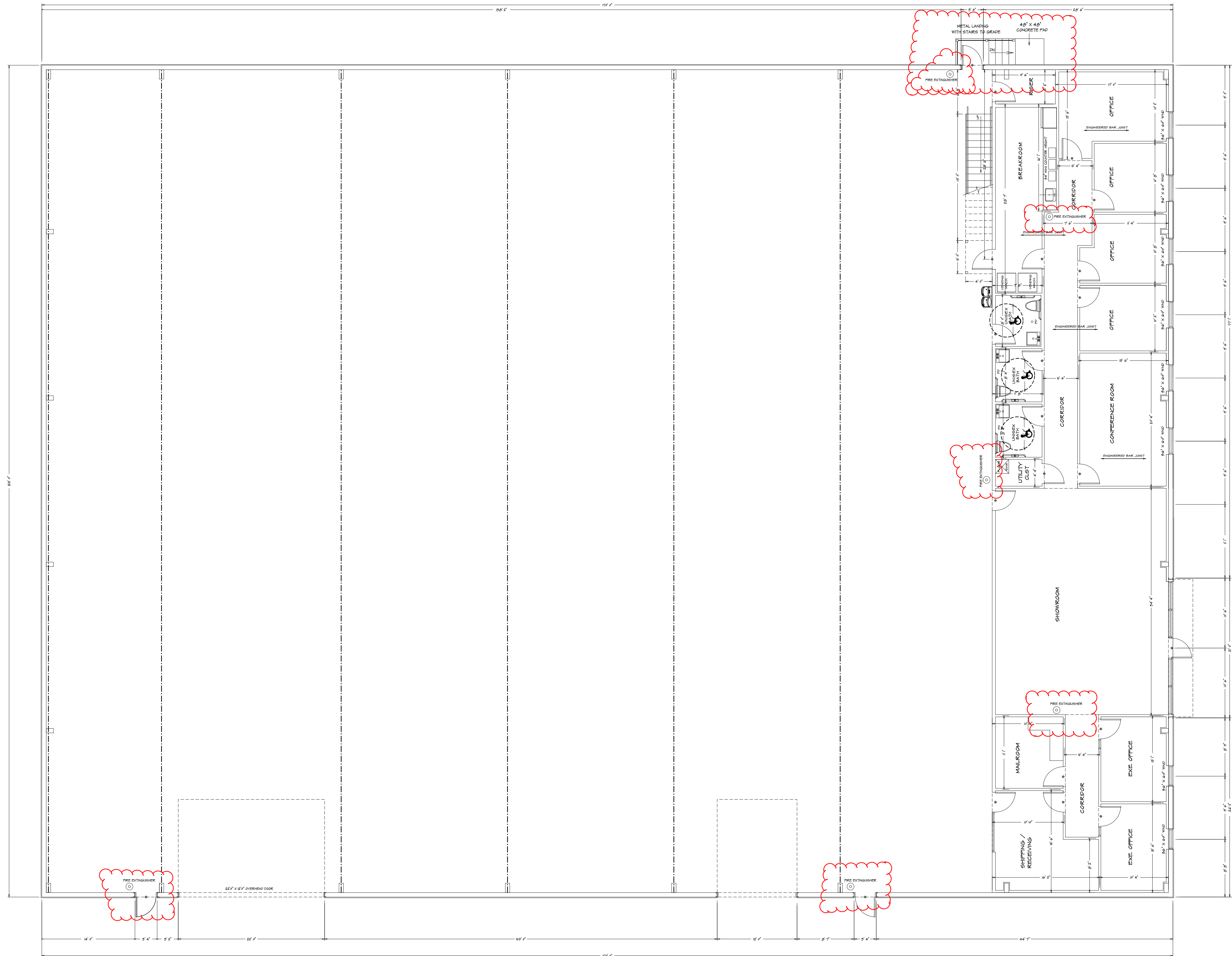
GRADE BEAM



FOUNDATION PLAN

1/8" = 1'-0"

HOME BUYER:	PHONE:	DATE DRAWN:	PLAN NO.	SHEET NO.
BUILDER:	PHONE:	DATE REVISED:	CON-899	2
SUB-DIVISION:	LOT NO.	DESIGNER:	FILE NAME:	APPROX SQ.FT.
			899.P01	

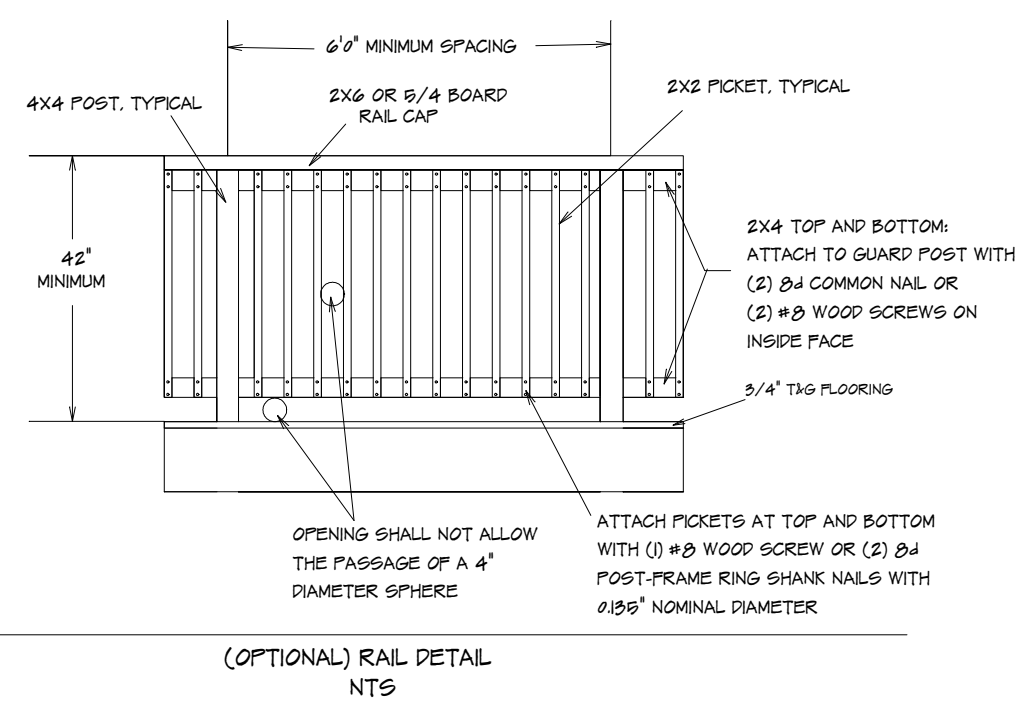


**FIRST FLOOR**  
1/8" = 1'-0"

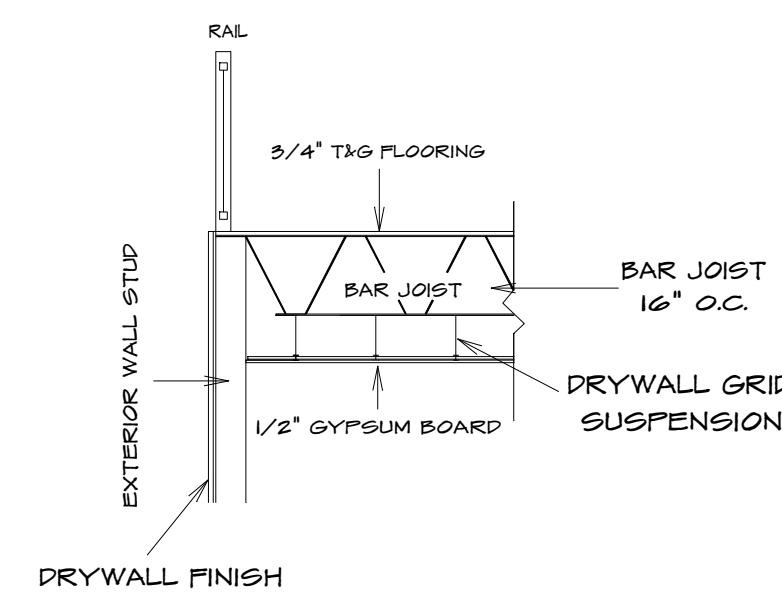
GENERAL LAYOUT	GENERAL NOTES	MECH / ELEC / PLUMB. NOTES
<p><b>TOILET ROOM ELEVATIONS</b></p> <p>TOILET ROOM ELEVATIONS            1. TOILET ROOM ELEVATIONS            2. TOILET ROOM ELEVATIONS            3. TOILET ROOM ELEVATIONS            4. TOILET ROOM ELEVATIONS            5. TOILET ROOM ELEVATIONS            6. TOILET ROOM ELEVATIONS            7. TOILET ROOM ELEVATIONS            8. TOILET ROOM ELEVATIONS            9. TOILET ROOM ELEVATIONS            10. TOILET ROOM ELEVATIONS            11. TOILET ROOM ELEVATIONS            12. TOILET ROOM ELEVATIONS            13. TOILET ROOM ELEVATIONS            14. TOILET ROOM ELEVATIONS            15. TOILET ROOM ELEVATIONS            16. TOILET ROOM ELEVATIONS            17. TOILET ROOM ELEVATIONS            18. TOILET ROOM ELEVATIONS            19. TOILET ROOM ELEVATIONS            20. TOILET ROOM ELEVATIONS            21. TOILET ROOM ELEVATIONS            22. TOILET ROOM ELEVATIONS            23. TOILET ROOM ELEVATIONS            24. TOILET ROOM ELEVATIONS            25. 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CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND REPORT THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING.</p> <p>3. PROVIDE BIDDING IN ALL WALLS AS REQUIRED FOR SUPPORT.</p> <p>4. CONTRACTOR TO DESIGN, COORDINATE, INSTALL, ETC. ALL CARBORNDUR/FULLONITE WITH OWNER.</p> <p>5. COORDINATE ALL FINAL OUTLET, WALL AND DOOR LOCATION W/ OWNER BEFORE CONSTRUCTION.</p> <p>6. COORDINATE ALL FINISHES WITH OWNER.</p> <p>7. PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT.</p> <p>8. PREL. VERIFY ALL DIMENSIONS AND WITH CONTRACTOR.</p> <p>9. CONTRACTOR TO COORDINATE W/ OWNER ON ALL ITEMS SUPPLIED AND APPROVED THE CONTRACTOR'S WORK.</p> <p>10. INTERIOR WALL CONSTRUCTION SHALL BE 2" GYPSUM STUDS, TRACKS AND BLOODING. STUDS SET 24" ON C/S W/ 2" GYPSUM BLOODING. WALL STUDS SHALL BE FINISHED IN ACCORDANCE WITH OTHER ADD'G'S OF ADD'G'S.</p> <p>11. PREL. COVERING BY PROPRIETOR'S DESIGN TO HAVE TILE OR OTHER NON-ADJACENT SURFACE TO A HEIGHT NOT LESS THAN 48" OFF.</p>	<p>1. THE EXTENSION OF THE MECH, ELEC, AND PLUMBING SYSTEMS SHALL BE ON A DESIGN-BUILD BASIS BY THE GENERAL CONTRACTOR.</p> <p>2. CONTRACTOR TO INSTALL COMMERCIAL GRADE BLOC OUTLETS, WINDOWS, PLUMB FIXTURES ETC. COORDINATE ALL OUTLET LOCATION WITH PLAN.</p> <p>3. HVAC AND FIXTURE TO BE DESIGNED BY OTHERS.</p> <p>4. ALL ELECTRICAL WORK SHALL COMPLY WITH BAC 900.</p> <p>5. ALL WIRING SHALL BE IN RIGID CONDUIT OR MC CABLE. MINIMUM WIRE SIZE SHALL BE #12 AWG. MINIMUM CONDUIT SIZE SHALL BE 1/2".</p> <p>6. ELECTRICAL PANELS IN 24" AMP OR W/ 4" 48" X 48" MINIMUM. #4 BOND 2" X 4" SET CONDUIT VOLTAGE BREAKER.</p> <p>7. PROVIDE EXIT SIGNS AND EMERGENCY LIGHTS TO BE IN ACCORDANCE WITH ALL CODES AND REGULATIONS.</p>

HOME BUYER:	PHONE:	DATE DRAWN:	PLAN NO.	SHEET NO.
			004-009	9
BUILDER:	PHONE:	DATE REVISED:	FILE NAME:	
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SUB-DIVISION:	LOT NO.:	DESIGNER:	APPROX. SQFT.:	
			8997 P.02	

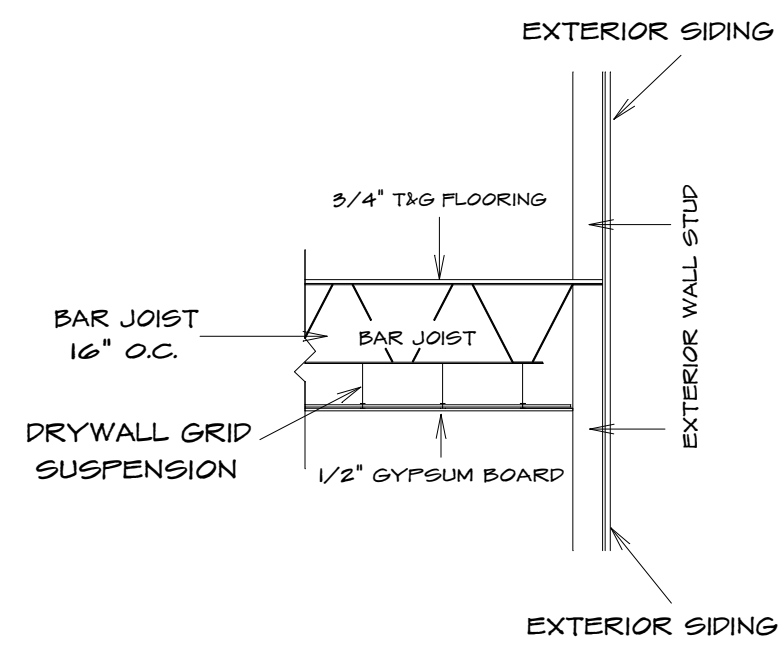
PLANS/CONTRACTOR IS RESPONSIBLE TO CHECK ALL DIMENSIONS FOR ACCURACY BETWEEN PLANS, FOUNDATION AND ELEVATIONS. ALSO VERIFY ALL BENCH MARKERS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND REPORT THE OWNER OF ANY DISCREPANCIES BEFORE PROCEEDING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND WITH CONTRACTOR. CONTRACTOR TO COORDINATE W/ OWNER ON ALL ITEMS SUPPLIED AND APPROVED THE CONTRACTOR'S WORK. INTERIOR WALL CONSTRUCTION SHALL BE 2" GYPSUM STUDS, TRACKS AND BLOODING. STUDS SET 24" ON C/S W/ 2" GYPSUM BLOODING. WALL STUDS SHALL BE FINISHED IN ACCORDANCE WITH OTHER ADD'G'S OF ADD'G'S. PREL. COVERING BY PROPRIETOR'S DESIGN TO HAVE TILE OR OTHER NON-ADJACENT SURFACE TO A HEIGHT NOT LESS THAN 48" OFF.



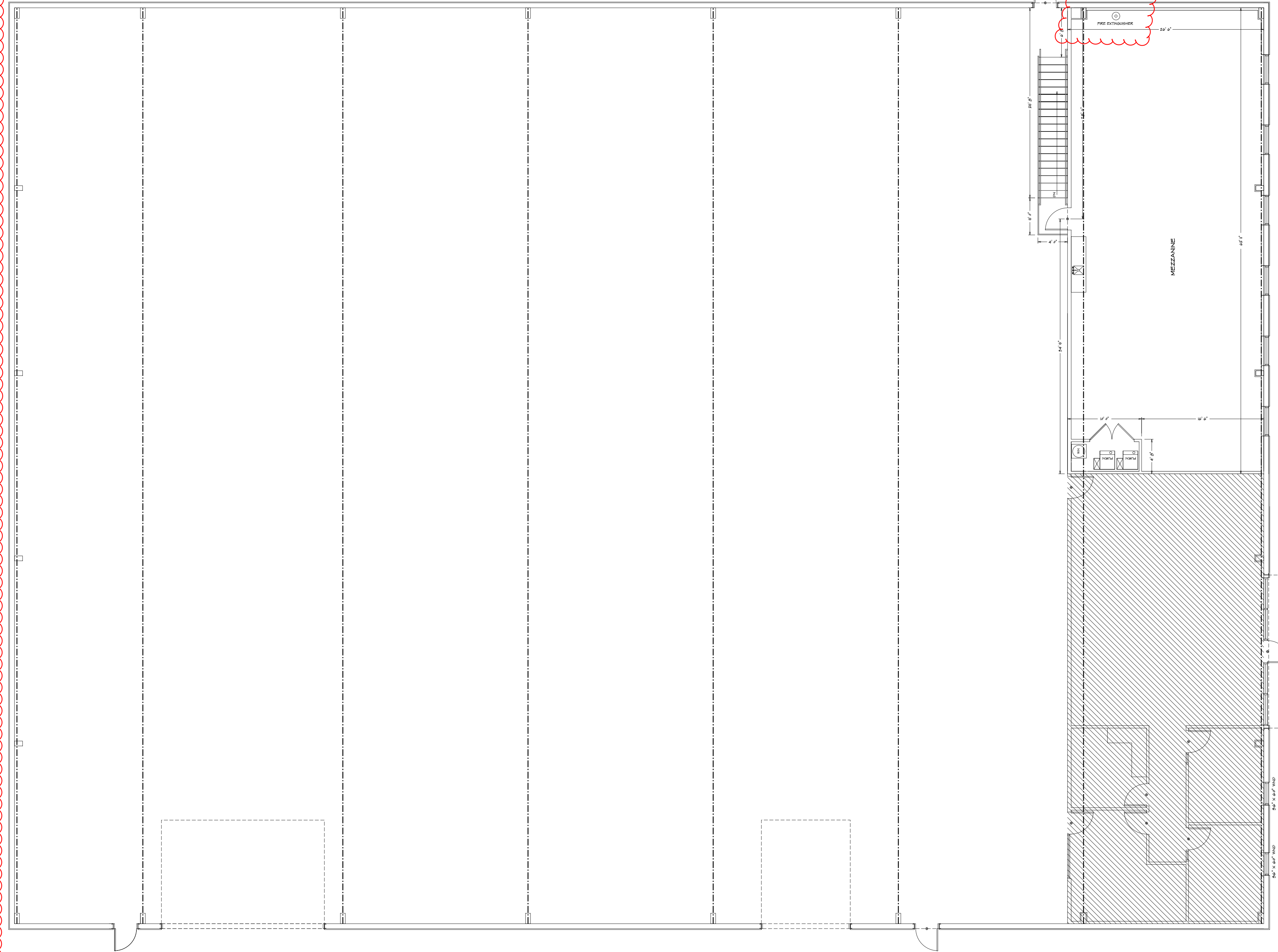
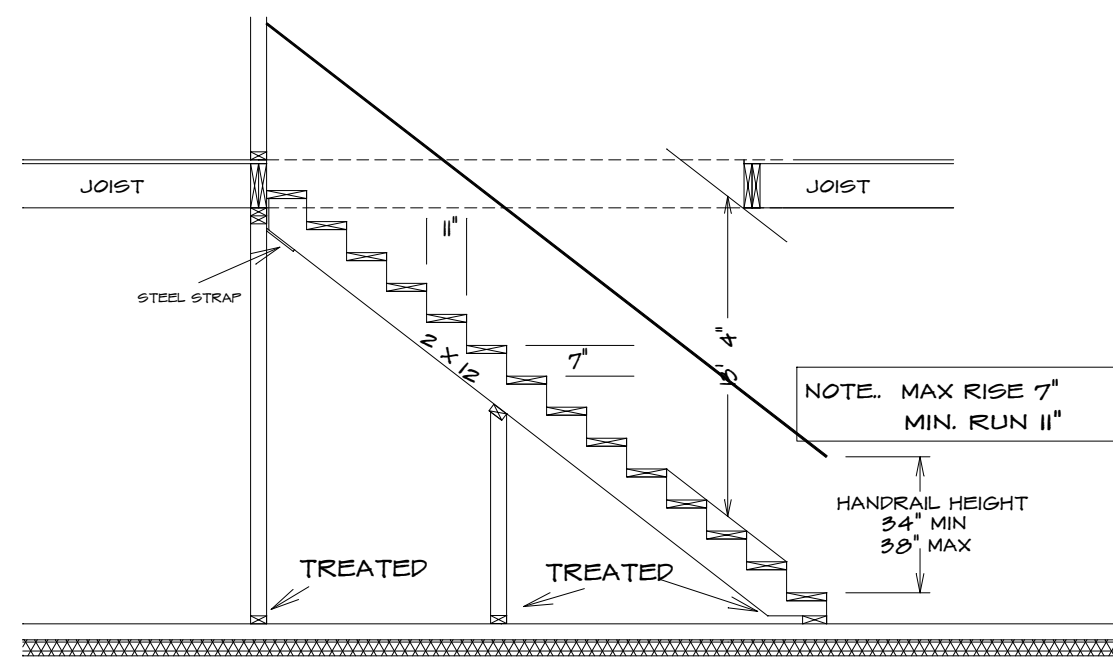
(OPTIONAL) RAIL DETAIL  
NTS



FLOOR JOIST CONSTRUCTION DETAIL  
NTS.



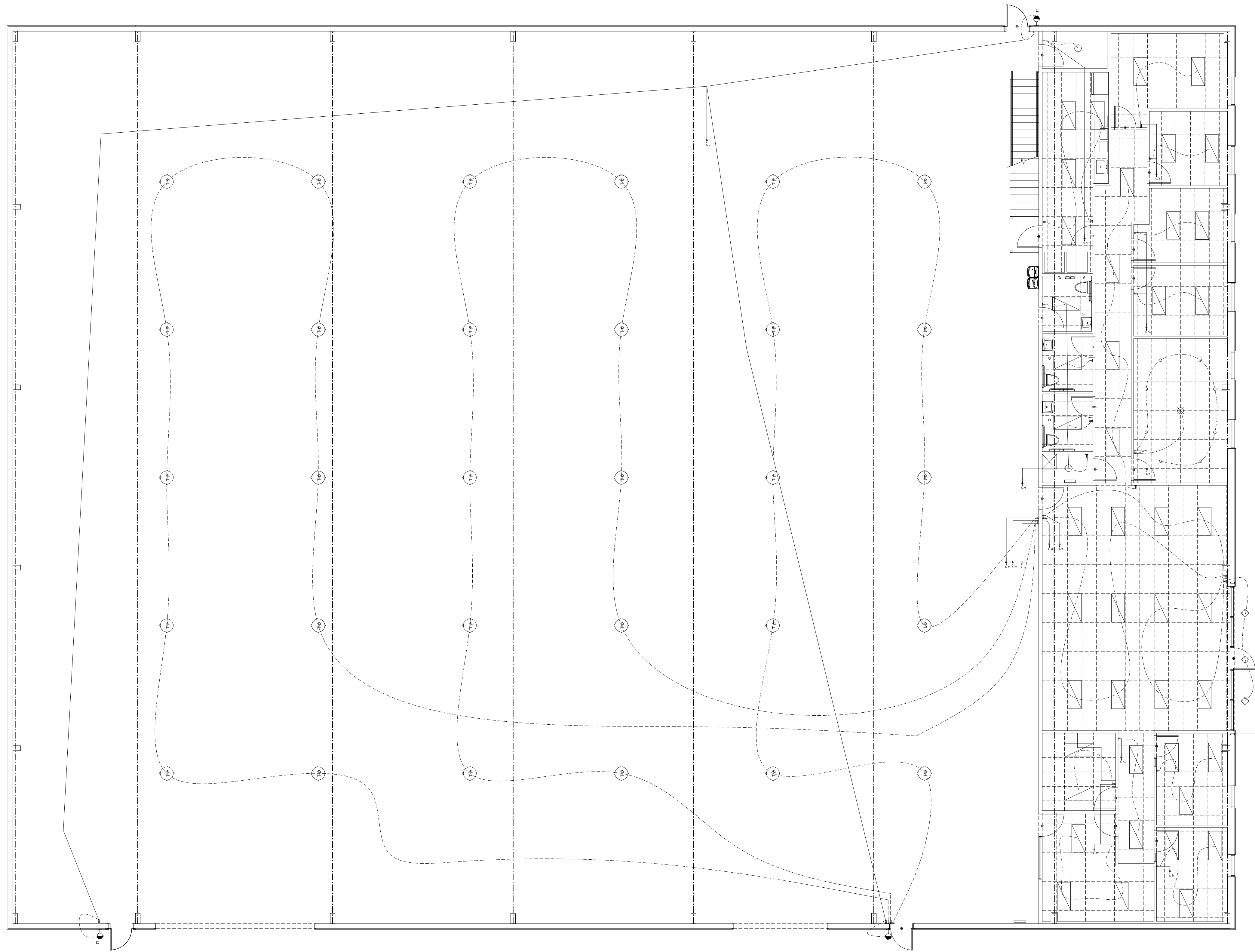
STAIR SECTION (TYP)



SECOND FLOOR  
1/8" = 1'-0"

THESE DRAWINGS ARE PREPARED BY THE ARCHITECT FOR THE CLIENT'S USE ONLY. THE ARCHITECT IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT. THE ARCHITECT'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE ARCHITECT DOES NOT ACCEPT RESPONSIBILITY FOR THE CONSTRUCTION OF THE PROJECT. THE ARCHITECT DOES NOT ACCEPT RESPONSIBILITY FOR THE CONSTRUCTION OF THE PROJECT. THE ARCHITECT DOES NOT ACCEPT RESPONSIBILITY FOR THE CONSTRUCTION OF THE PROJECT.

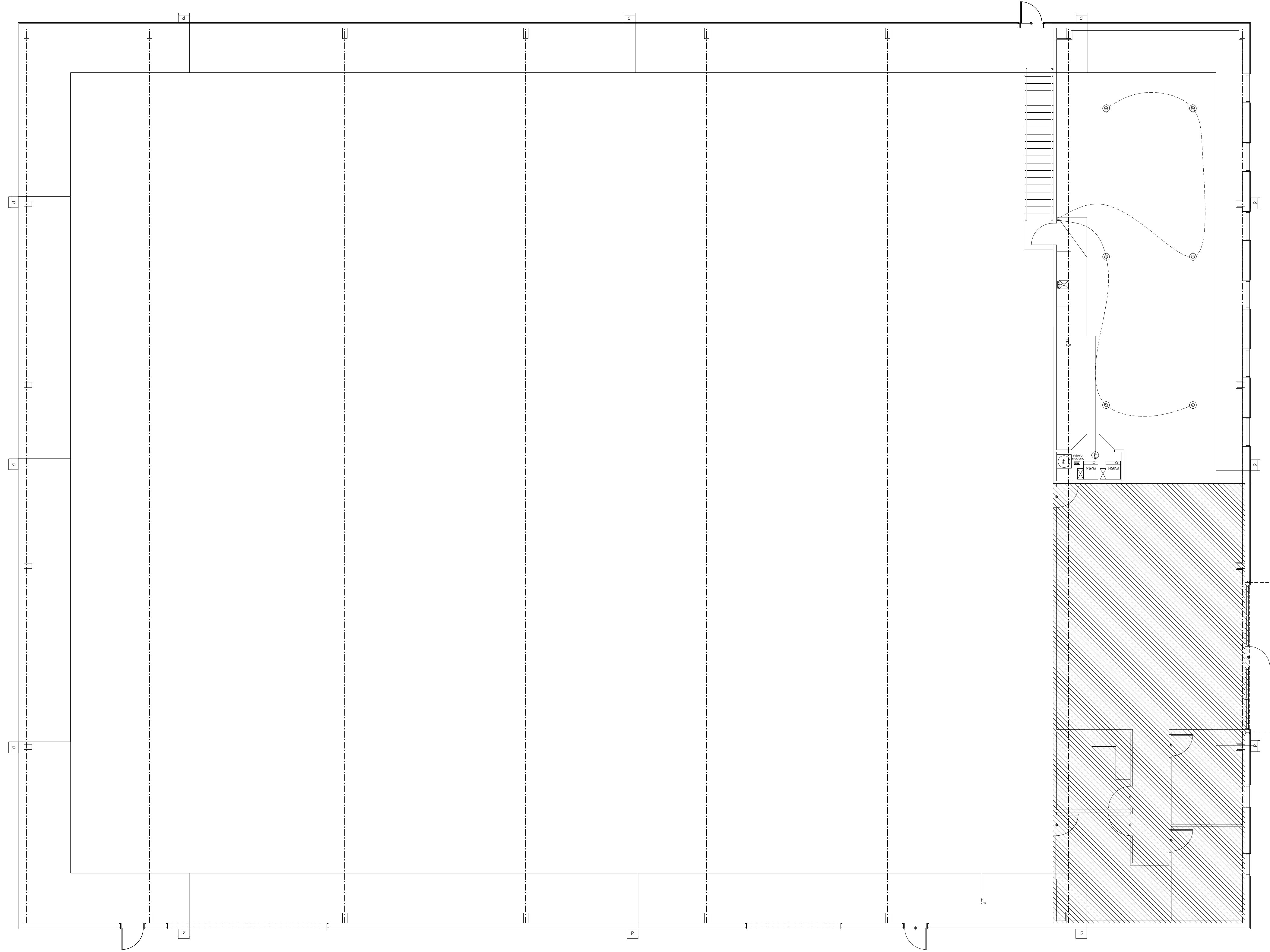
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					COM-899	4
				BUILDER:	FILE NAME:	APPROX. SQ. FT.
				SUB-DIVISION:	8999.P22	



LOWER LEVEL LIGHTING PLAN  
 1/8" = 10'

CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL LIGHT FIXTURES, PANELS, AND ELECTRICAL EQUIPMENT. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LOCATIONS, AND COORDINATE ALL DIMENSIONS AND LOCATIONS OF ALL LIGHT FIXTURES, PANELS, AND ELECTRICAL EQUIPMENT. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LOCATIONS, AND COORDINATE ALL DIMENSIONS AND LOCATIONS OF ALL LIGHT FIXTURES, PANELS, AND ELECTRICAL EQUIPMENT. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LOCATIONS, AND COORDINATE ALL DIMENSIONS AND LOCATIONS OF ALL LIGHT FIXTURES, PANELS, AND ELECTRICAL EQUIPMENT.

HOME BUYER:	PHONE:	DATE DRAWN:	PLAN NO.:	SHEET NO.:
BUILDER:	PHONE:	DATE REVISED:	COM-899	6
SUB-DIVISION:	LOT NO.:	DESIGNER:	FILE NAME:	APPROX. SQ. FT.:
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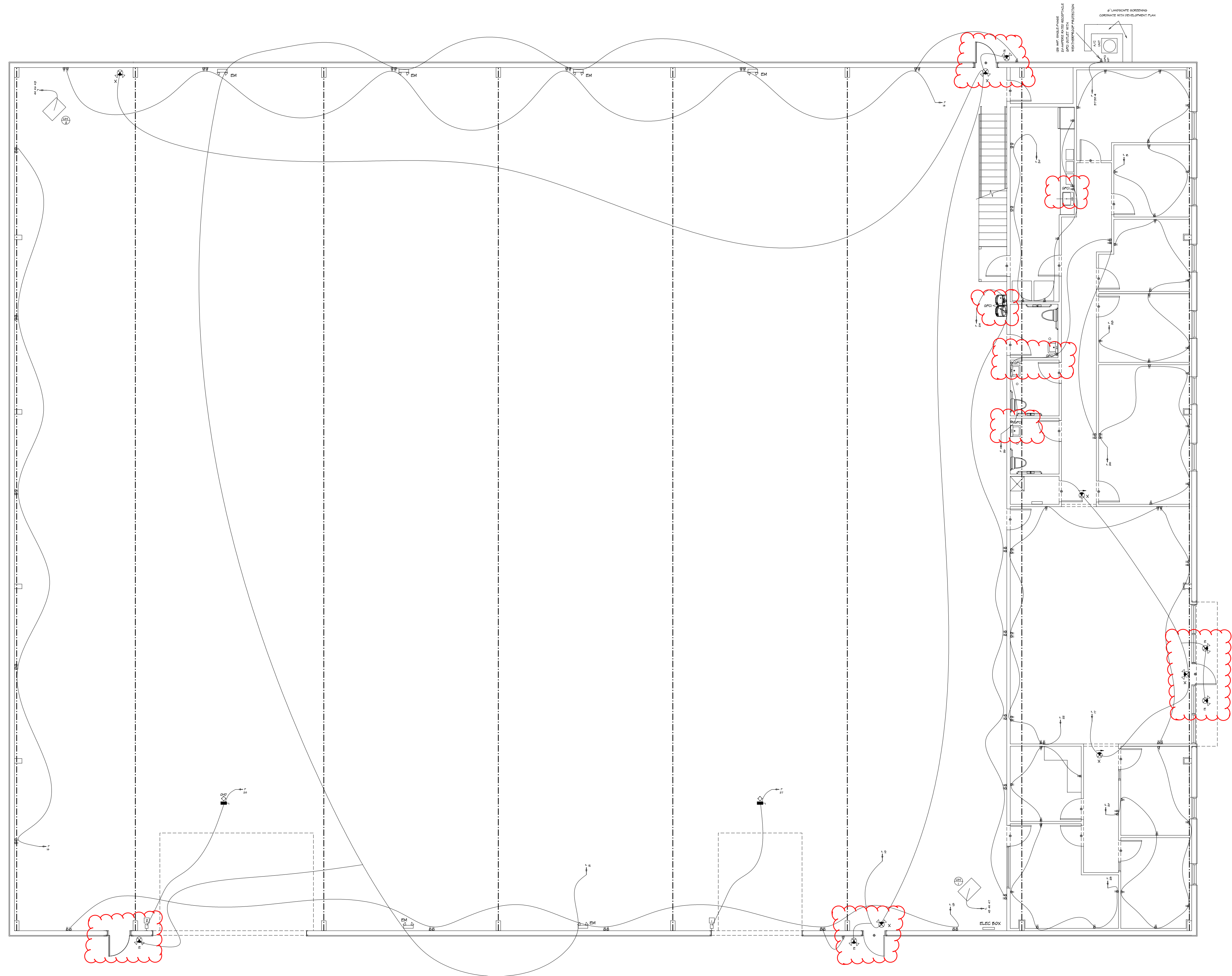


EMERGENCY LIGHTING

UPPER LEVEL LIGHTING PLAN  
 $1/8" = 10'$

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND LOCATIONS OF ALL ELECTRICAL AND MECHANICAL EQUIPMENT AND SHALL VERIFY ALL DIMENSIONS, LOCATIONS AND COORDINATIONS WITH THE ARCHITECT AND ALL OTHER TRADES PRIOR TO INSTALLATION. THE CONTRACTOR SHALL ACCEPT ALL RESPONSIBILITY FOR THE LOCATION, SET-POINTS, SET-SIZES, AND TIGHTNESS OF ALL ELECTRICAL AND MECHANICAL EQUIPMENT. THE CONTRACTOR SHALL ACCEPT RESPONSIBILITY FOR ANY AND ALL SITE DAMAGES AND TO REPAIR THEM.

HOME BUYER:	PHONE:	DATE DRAWN:	PLAN NO.:	SHEET NO.:
BUILDER:	PHONE:	DATE REVISED:	CON-8999	6
SUB-DIVISION:	LOT NO.:	DESIGNER:	FILE NAME:	APPROX. SQ. FT.:
			8999 E-1	



LOWER LEVEL POWER PLAN  
 1/8" = 10'

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL INFORMATION FOR CORRECT  
 PROVISIONS AND COORDINATING ALL ELECTRICAL AND MECHANICAL WORK WITH ALL OTHER TRADES.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND  
 APPROVALS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR  
 OBTAINING ALL NECESSARY INFORMATION FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR  
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BUILDER:	PHONE:	DATE REVISED:	CON-8899	7
SUB-DIVISION:	LOT NO.	DESIGNER:	FILE NAME:	APPROX SQ.FT.
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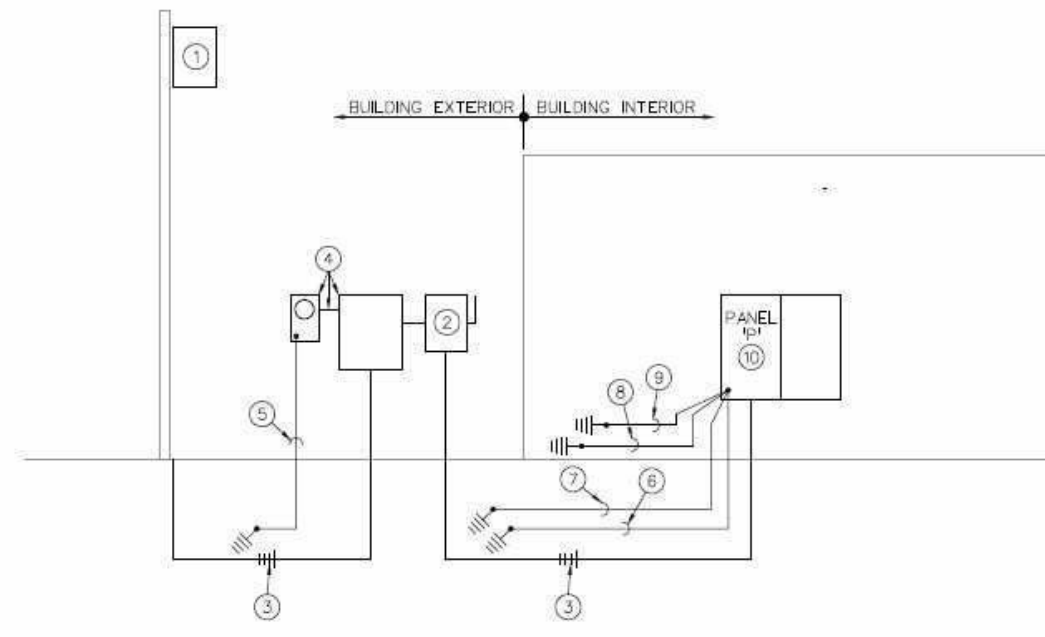


UPPER LEVEL POWER PLAN  
 1/8" = 1'-0"

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SUB-DIVISION:	LOT NO.	DESIGNER:	FILE NAME:	APPROX. SQ. FT.
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**ELECTRICAL RISER DIAGRAM**  
KTS

**RISER DIAGRAM NOTES**

- 1. UTILITY COMPANY POLE MOUNTED TRANSFORMER WITH 288Y/120V, 3-PHASE 4-WIRE SECONDARY, VERIFY APC AT TRANSFORMER SECONDARY WITH UTILITY COMPANY.
- 2. 400A/3P, NON-FUSED, NEMA 3R DISCONNECT SWITCH
- 3. (2) 2" PVC CONDUITS WITH 4-#5/0 (CU) IN EACH, INSTALL CONDUITS WITH TOP MINIMUM 3'-6" BELOW FINISHED GRADE.
- 4. UTILITY COMPANY C.T. CABINET AND METER CAN/SOCKET, 1/4" CONDUIT FOR METERING CABLES.
- 5. #6 (CU) GROUND WIRE, CONNECT TO 1/2" ROUND X 8'-0" LONG COPPER CLAD STEEL DRIVEN GROUND ROD.
- 6. 1/2" C, 1-#1/0 (CU) GROUND WIRE, CONNECT TO 3/4" ROUND X 10'-0" LONG COPPER CLAD STEEL DRIVEN GROUND ROD.
- 7. 1/2" C, 1-#1/0 (CU) GROUND WIRE, CONNECT TO 2#'-0" LONG CONDUCTOR IN CONCRETE BUILDING FOOTING.
- 8. 1/2" C, 1-#1/0 (CU) GROUND WIRE, CONNECT TO COLD WATER SERVICE PIPE, AHEAD OF MAIN SHUT-OFF VALVE.
- 9. 1/2" C, 1-#1/0 (CU) GROUND WIRE, CONNECT TO BUILDING STEEL.
- 10. PANEL 1" SHALL HAVE SERVICE ENTRANCE LABEL.

**ELECTRICAL GENERAL NOTES**

- 1. INSTALLATION SHALL COMPLY WITH LATEST EDITION OF N.E.C. AND LOCAL AUTHORITY HAVING JURISDICTION
- 2. CONTRACTOR SHALL BE LICENSED TO PERFORM 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. TYPEWRITEN 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.
- 11. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, NEMA 1 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) MINUTES. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO HOT LEG OF CIRCUIT, NOT SWITCHED.
- 15. E.C. SHALL VERIFY RATINGS, LOCATIONS, AND CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS AND INSTALLED AND/OR CONNECTED BY THE ELECTRICAL CONTRACTOR.
- 16. NEW PANELBOARDS SHALL BE ITE/SIEMENS TYPE 12" OR EQUAL, WITH BOLT-ON CIRCUIT BREAKERS, ALUMINUM BUS, NEMA 1 ENCLOSURE, GROUND, AND NEUTRAL BUS, AC RATING TO MATCH EXISTING SYSTEM, EQUALS BY SQUARE D, GE, CUTLER-HAMMER OR EQUAL.
- 17. NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARD SHALL MATE/MATCH PANEL CONSTRUCTION AND AC RATING.

**ELECTRICAL SYMBOLS**

	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL, ARROWS INDICATE HOMERUNS TO PANEL ALL CONDUCTORS ARE #12 EXCEPT AS NOTED.
	CONDUIT RUN UNDERGROUND OR BENEATH FLOOR SLAB
	GROUNDING CONDUCTOR #12 EXCEPT AS NOTED
	WALL MOUNTED JUNCTION BOX
	CEILING MOUNTED JUNCTION BOX
	PANELBOARD (SURFACE MOUNTED), INSTALLED W/TOP 6'-0" AFF
	DISCONNECT SWITCH, SIZE AS NOTED
	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT
	EXIT LIGHT - SINGLE FACE - ARROW AS SHOWN
	EXIT LIGHT - DOUBLE FACE - ARROW AS SHOWN
	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
	WALL MOUNTED LIGHT FIXTURE
	REMOTE WEATHERPROOF EMERGENCY LIGHT FIXTURE
	WALL PACK LIGHT, 100W COMERCIAL LED, WALL PACK 120-277V 50,000 - HR LIFE IP65 COMPLY WITH SECT. 7.2.6.0 OF THE UDO
	T-8 HIGH BAY LIGHT FIXTURE
	SINGLE POLE SWITCH +3'-10" AFF
	THREE-WAY SWITCH +3'-10" AFF
	FOUR-WAY SWITCH +3'-10" AFF
	OCCUPANCY SENSOR +3'-10" AFF
	DIMMER SWITCH +3'-10" AFF, SIZE AS NOTED
	OCCUPANCY SENSOR POWER PACK
	OCCUPANCY SENSOR.
	DUPLEX RECEPTACLE +1'-6" AFF OR AS NOTED
	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP
	DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE, HEIGHT AS NOTED
	DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION, +1'-6" AFF OR AS NOTED
	FOURPLEX RECEPTACLE +1'-6" AFF OR AS NOTED
	ELECTRIC WATER HEATER AND NUMBER
	EXHAUST FAN AND NUMBER
	CONDENSING UNIT AND NUMBER
	FURNACE AND NUMBER
	FAN COIL UNIT AND NUMBER
	HEAT PUMP UNIT AND NUMBER
	ABOVE FINISHED FLOOR
	ELECTRICAL CONTRACTOR
	ELECTRIC DRINKING FOUNTAIN
	NIGHT LIGHT FIXTURE SHALL BE ON 24/7

**ELECTRICAL PLAN NOTES**

- 1. INSTALL OUTLET BOX FOR WIRING DEVICE WITH TOP 48" AFF OF GROUND FLOOR
- 2. ON/OFF/STOP PUSH-BUTTON INSTALLED AT 48" AFF OF GROUND FLOOR FOR OVERHEAD DOOR MOTOR CONTROLE
- 3. 30A 280V, 2-POLE, 5-WIRE DISCONNECTING MEANS
- 4. 3/4" CONDUIT, 2-#12 AND 1-#10 GROUND WIRE
- 5. 20A 120V, 1-POLE DISCONNECTING MEANS

PANEL	P	120208	VOLTS	Ø	200	A. BUS	Ø	SERVICE ENTRANCE
			3	PHASE	Ø	500	A. MAIN BREAKER	Ø
SECTION	1	OF	1	4	WIRE	Ø	MAIN LUGS ONLY	Ø
							FEED TRU LUGS	Ø
							SUB FEED LUGS	Ø

DESCRIPTION	Wtr Size	AMPS	Watts	Circ #	Circ #	Watts	AMPS	Wtr Size	DESCRIPTION
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
EXTERIORLIGHTS	12	20	1500	11	12	1500	20	12	LIGHTS
LIGHTS	12	20	1820	13	14	1300	20	12	RECEPTACLES (BAY)
LIGHTS	12	20	1820	15	16	1300	20	12	RECEPTACLES (BAY)
EMEXIT LIGHTS	12	20	1820	17	18	1300	20	12	RECEPTACLES (BAY)
EMEXIT LIGHTS	12	20	1820	19	20	1300	20	12	RECEPTACLES
EMERGENCY LIGHTS	12	20	1820	21	22	1300	20	12	RECEPTACLES
RECEPTACLES	12	20	1820	23	24	1300	20	12	RECEPTACLES
RECEPTACLES	12	20	1820	25	26	1300	20	12	RECEPTACLES
OHIO OPERATOR	12	20	1920	27	28	1300	20	12	RECEPTACLES
OHIO 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	EMEXIT LIGHTS
OPEN				35	36	1920	20	12	F - 1
								12	F - 2
CU-1	10	30	2500	37	38	1920	20	12	F - 2
				39	40	4500	30	8	WATER HEATER
				3	2500	41	42	4500	2
				3	3800	43	44	3300	
				8	3300	45	46	3300	35
				8	3300	47	48	3300	3
									UH-2

TYPE	MANUFACTURER	LAMP	WATTS/VOLTS	DISCRPTION
D	BY OWNER	LED	TBD	EXTERIOR WALL PACK
E	BY OWNER	LED	TBD	EXTERIOR RATED ARCHITECTURAL FIXTURE
EM	BY OWNER	LED	TBD	EMERGENCY LIGHTING UNIT, 90 MIN BATTERY
X	BY OWNER	LED	TBD	EXIT SIGN, UNIVERSAL MOUNT, 90 MIN BATTERY

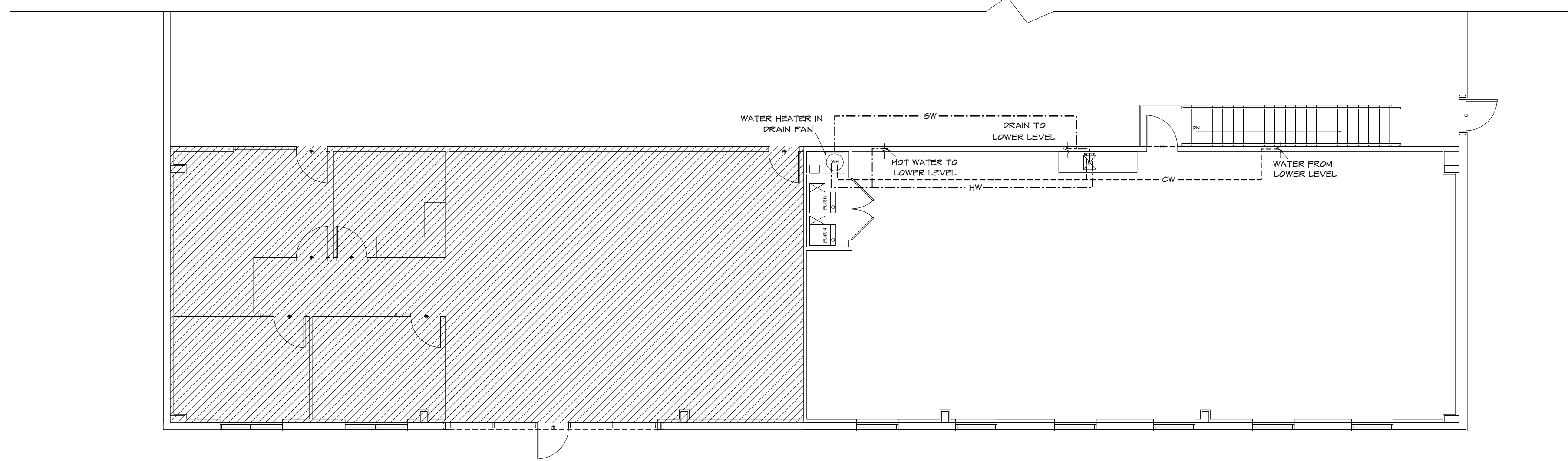
INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2012 INTERNATIONAL MECHANICAL, PLUMBING AND FUEL GAS CODES, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.  
DRAWINGS ARE ENGRAMMATIC AND ARE INTENDED TO INDICATE THE GENERAL DESIGN CONCEPT. THEY DO NOT NECESSARILY INDICATE EACH 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 EQUIPMENT PAD CONSTRUCTION, STRUCTURAL SUPPORTS AND MOUNTINGS FOR 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 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 INDEPENDENTLY, 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 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'-0" 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 OFFERING CLEARANCE REQUIREMENTS OF ACTUAL EQUIPMENT FURNISHED.  
ALL FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND PER LISTINGS.  
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 OF RISER CLAMPS TO SUPPORT VERTICAL PIPING IS PROHIBITED.  
ALL WATER BEARING PIPING SHALL BE SLOPED FOR DRAINAGE WITH BALL DRAN VALVES AT LOW POINTS.  
SUPPORT ALL SUSPENDED EQUIPMENT, DUCTWORK AND PIPING INDEPENDENTLY, PROVIDE 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 DISSIMLAR METALS.

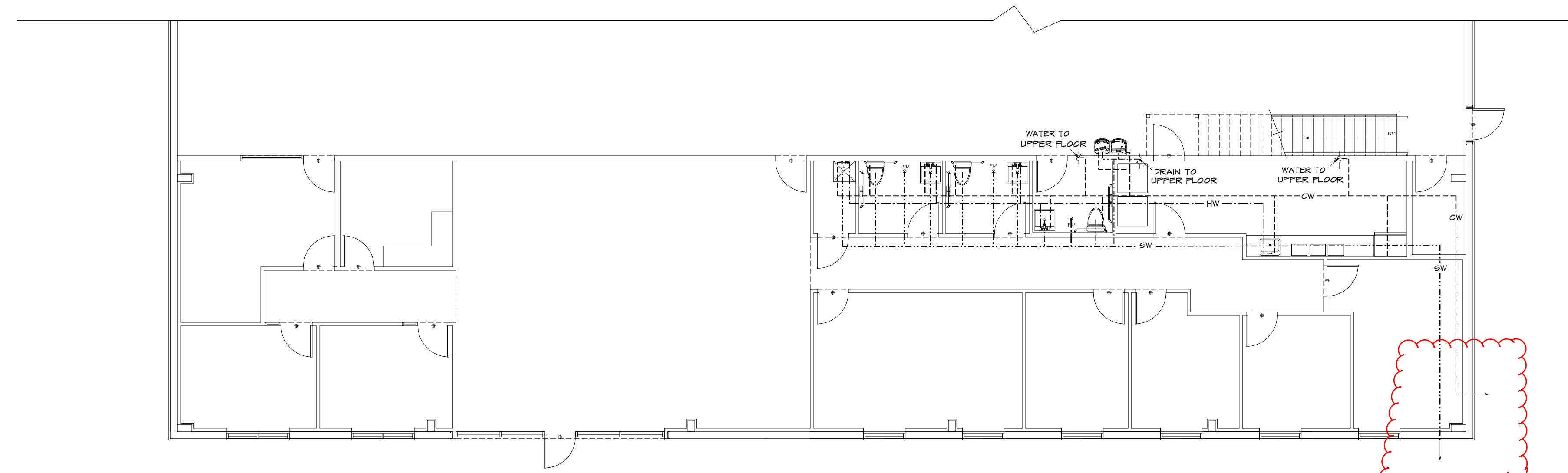
TRAP ALL CHILLED CONDENSATE DRAINS AS DETAILED OR AS REQUIRED. PROVIDE A TRAP DEPTH 1" GREATER THAN SYSTEM FAN DEVELOPED STATIC PRESSURE. INSURE AND CERTIFY THAT CONDENSATE DRAINS ARE POSITIVELY SLOPED AT 1/20" MINIMUM IN DIRECTION OF FLOW.  
CAULK AND SEAL ALL DUCT AND PIPING PENETRATIONS OF EXTERIOR OR DEMISING WALLS.  
REFRIGERANT PIPING SHALL BE TYPE 'ACR' COPPER WITH BRAZED JOINTS OR 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 FLEXIBLE. 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 COMPENSATORS 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 TPE SEATS, NIPCO S-565-70.  
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, HAND-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 48" AFF.  
CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT HANDLING AND TRANSPORT FOR ITEMS HE FURNISHES AND/OR INSTALS. 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 POSSIBLE, 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 PSI 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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PLAN NO.	COM-9999
FILE NAME:	9999 E-9
APPROX. SQ.FT.	
DATE DRAWN:	
DATE REVISED:	
DESIGNER:	
PHONE:	
PHONE:	
LOT NO.	
HOME BUYER:	
BUILDER:	
SUB-DIVISION:	

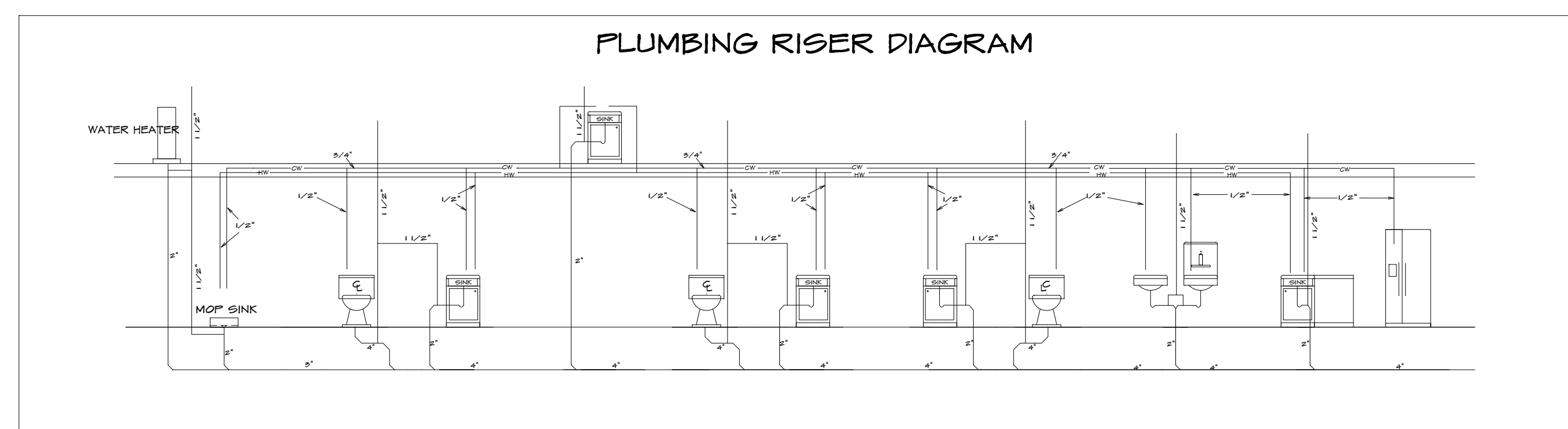
BUILDER/CONTRACTOR IS RESPONSIBLE TO CHECK ALL DIMENSIONS FOR ACCURACY BEFORE FLOORS, FOUNDATION AND ELEVATIONS ALSO VERIFY ALL BEAM, HEADERS, PAD LOCATIONS, AND COLUMN SIZES. BUILDER/CONTRACTOR TO CHECK FOR COMPLIANCE WITH CONTRACTS, CITY, AND NATIONAL CODES. BUILDER/CONTRACTOR SHALL BE RESPONSIBLE FOR RECORD DRAWING SUBMITTALS, AND FLOOR PLANS. BUILDER/CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY COPYRIGHT INFRINGEMENTS OR RESPONSIBILITIES TO OTHER COORDINATED PLANS. BUILDER/CONTRACTOR ACCEPTS RESPONSIBILITY FOR ANY ON AN SITE CHANGES MADE TO STRUCTURE.



SECOND FLOOR PLUMBING  
 1/8" = 1'-0"



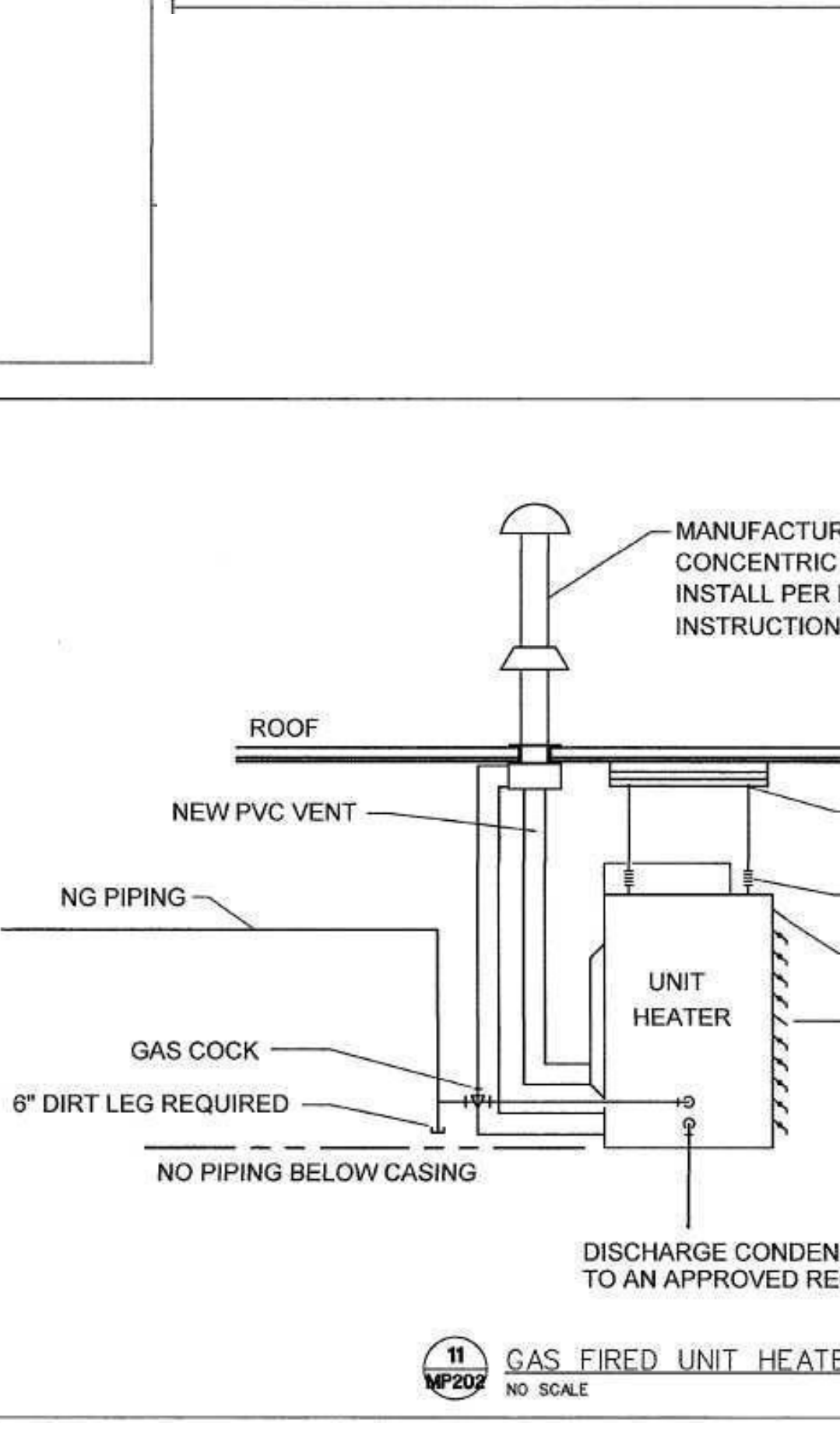
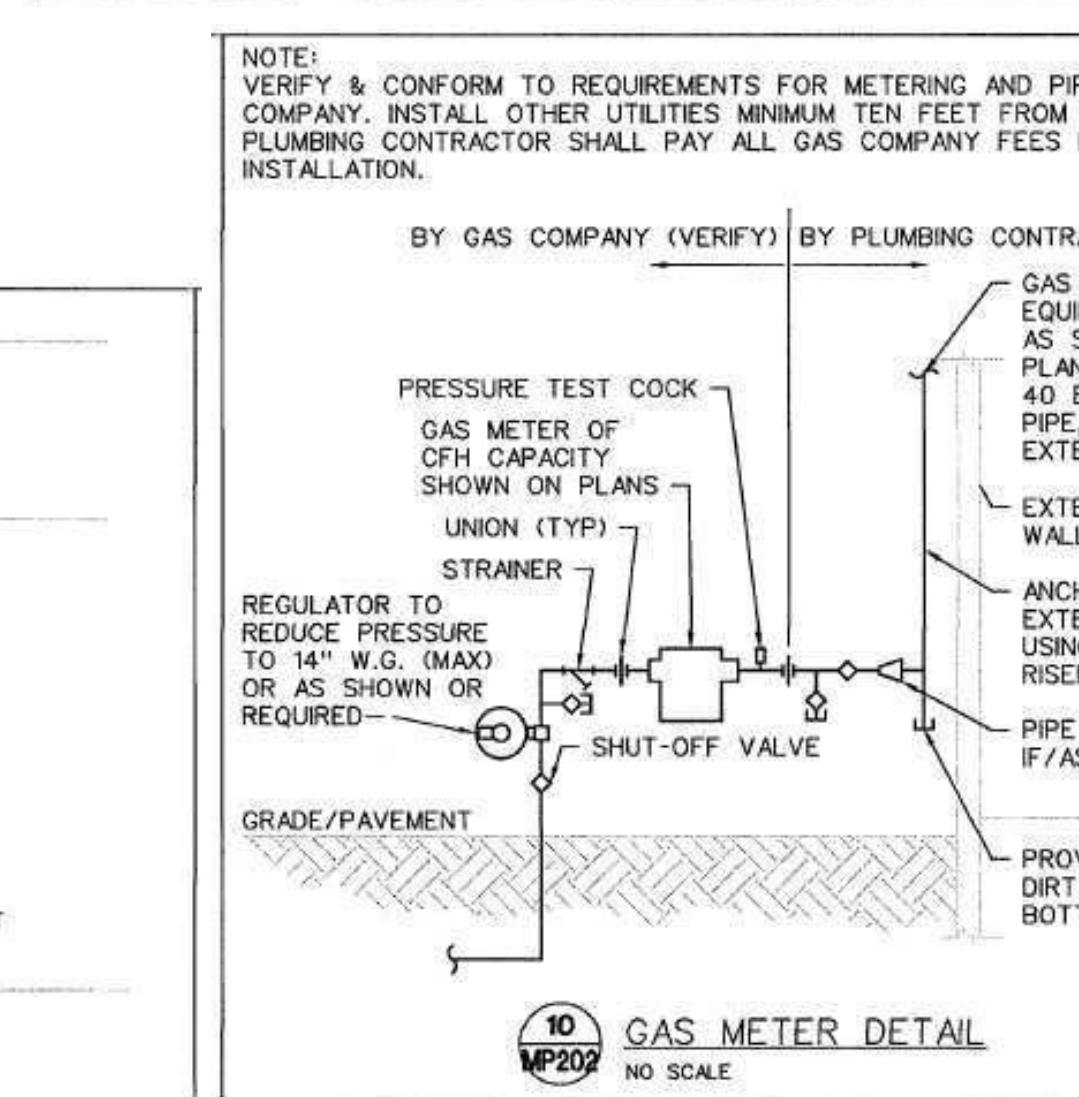
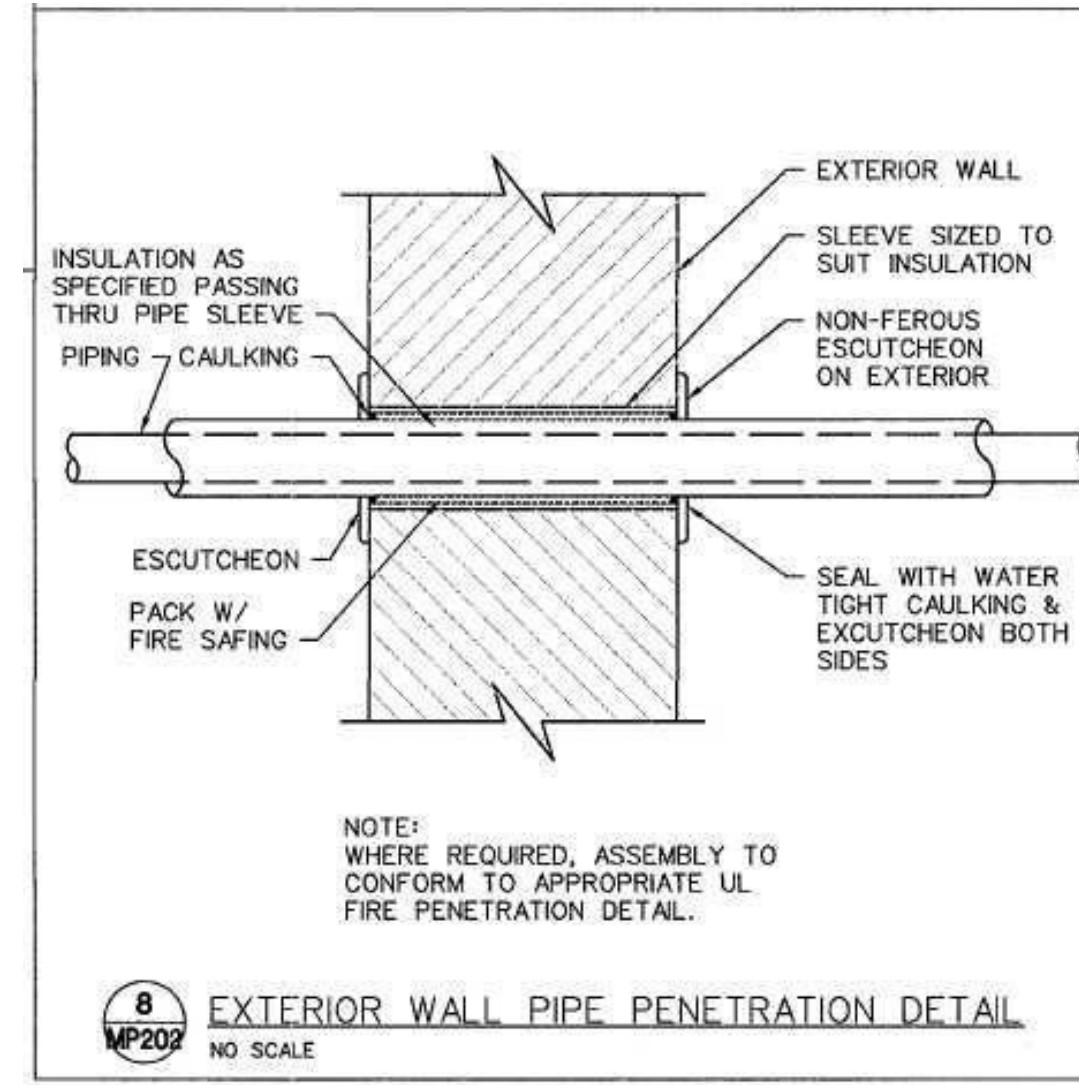
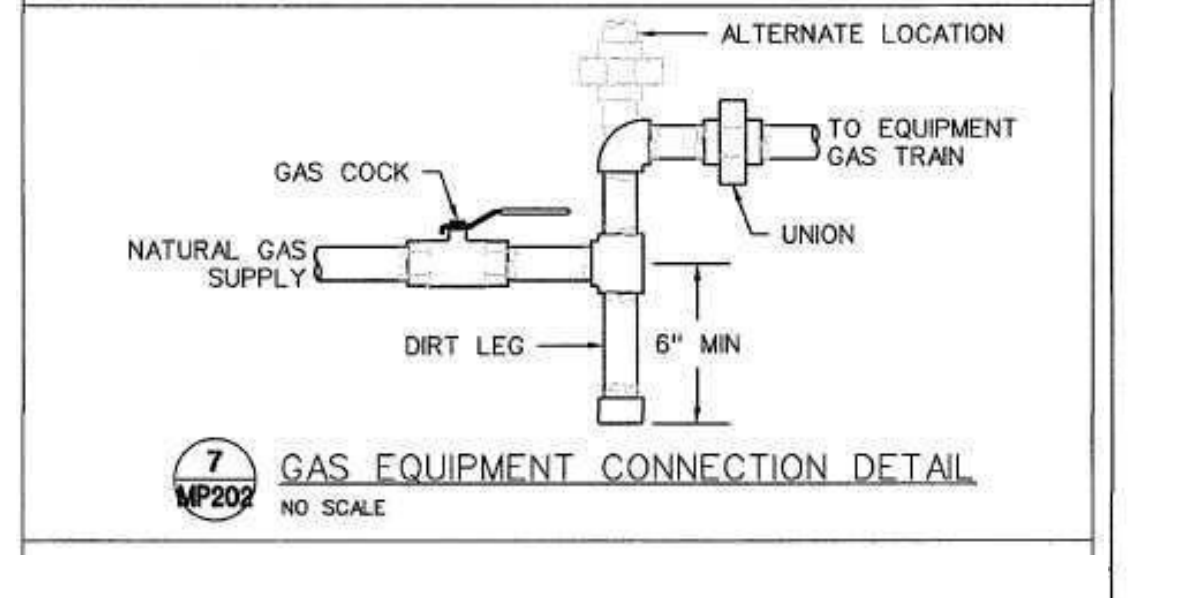
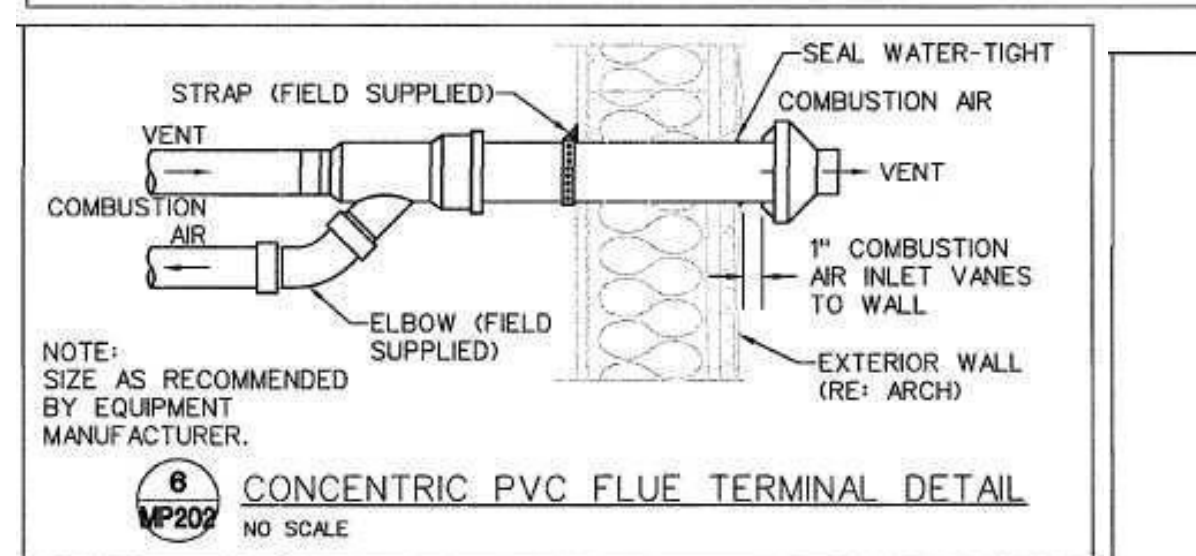
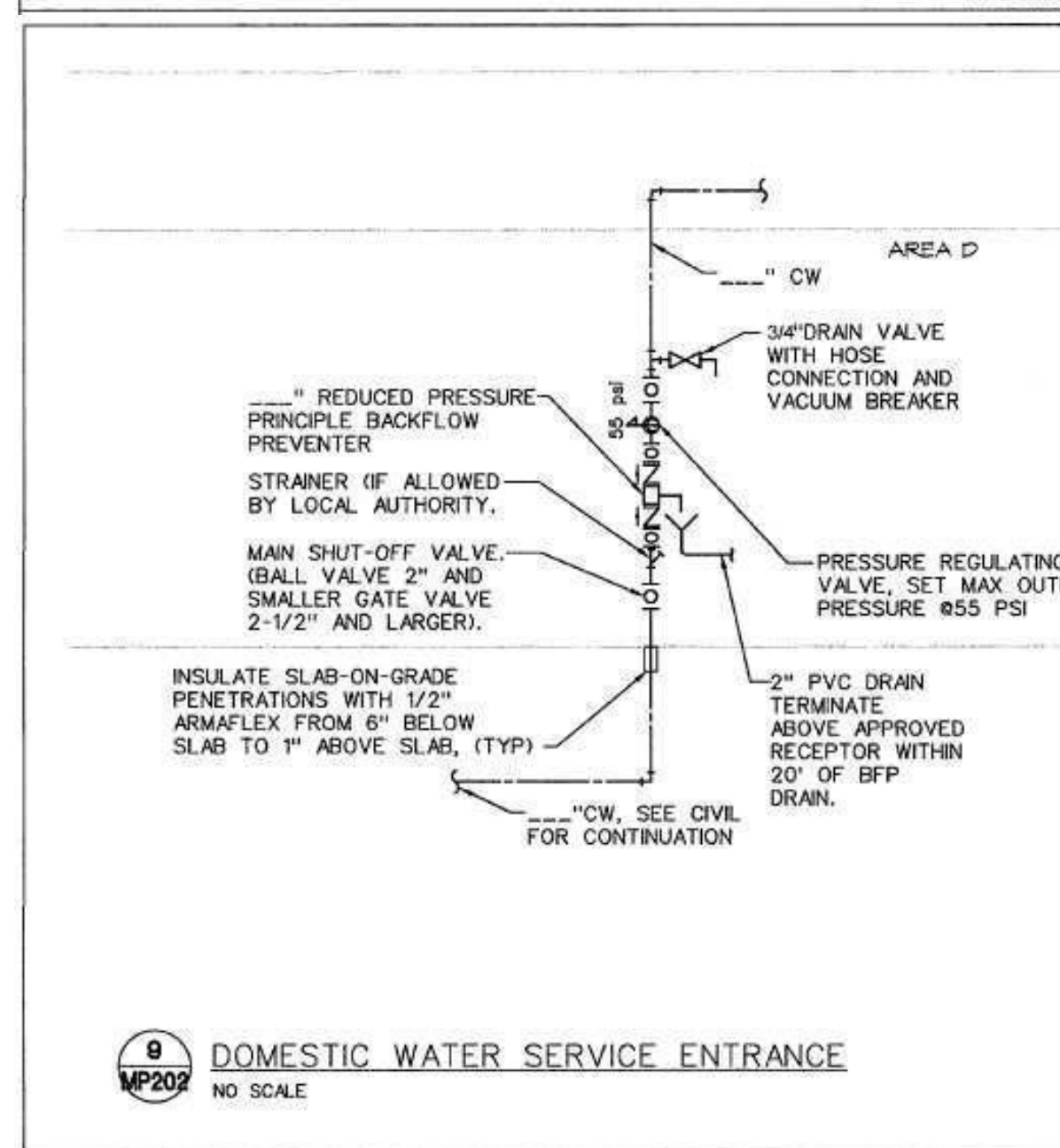
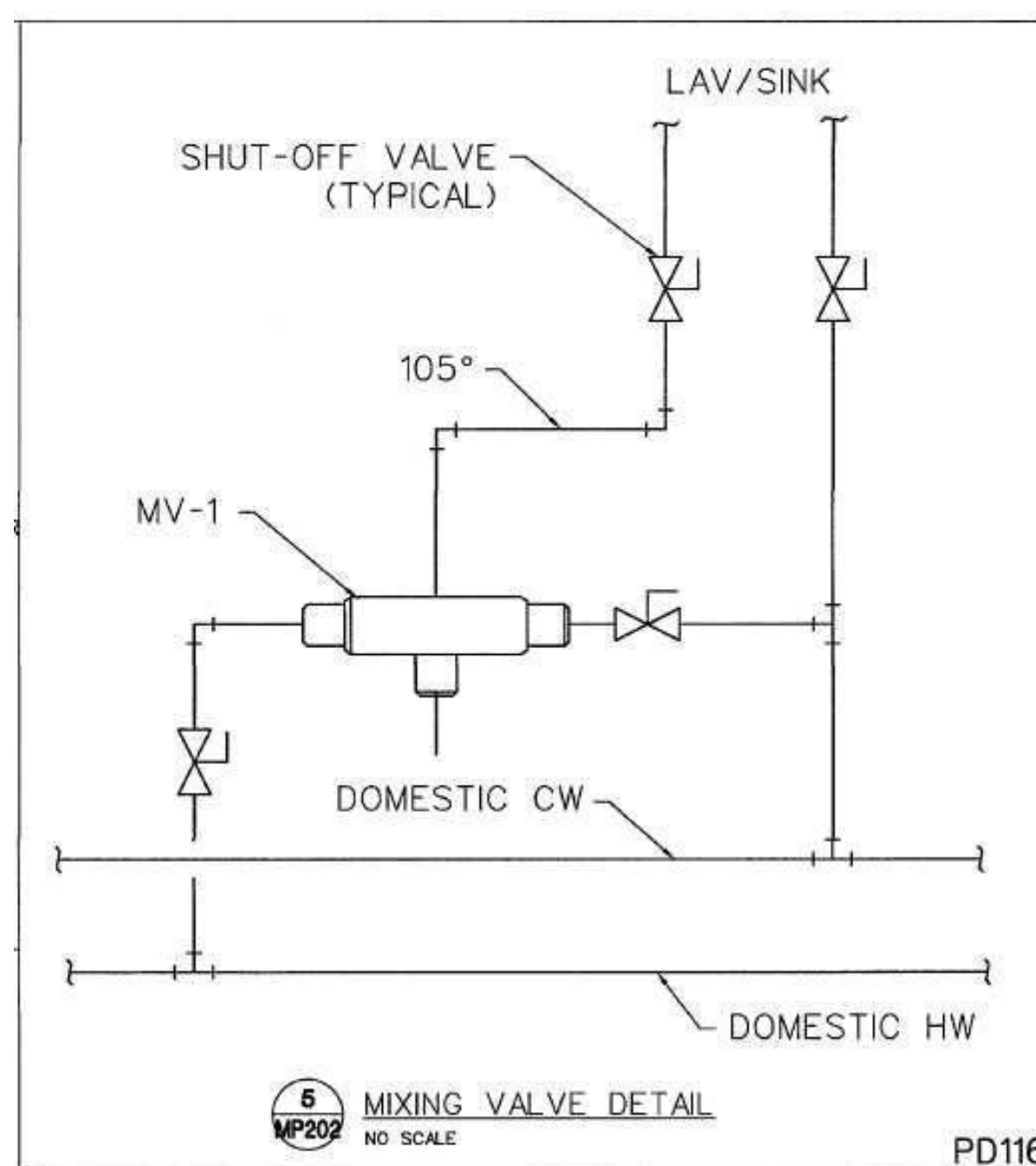
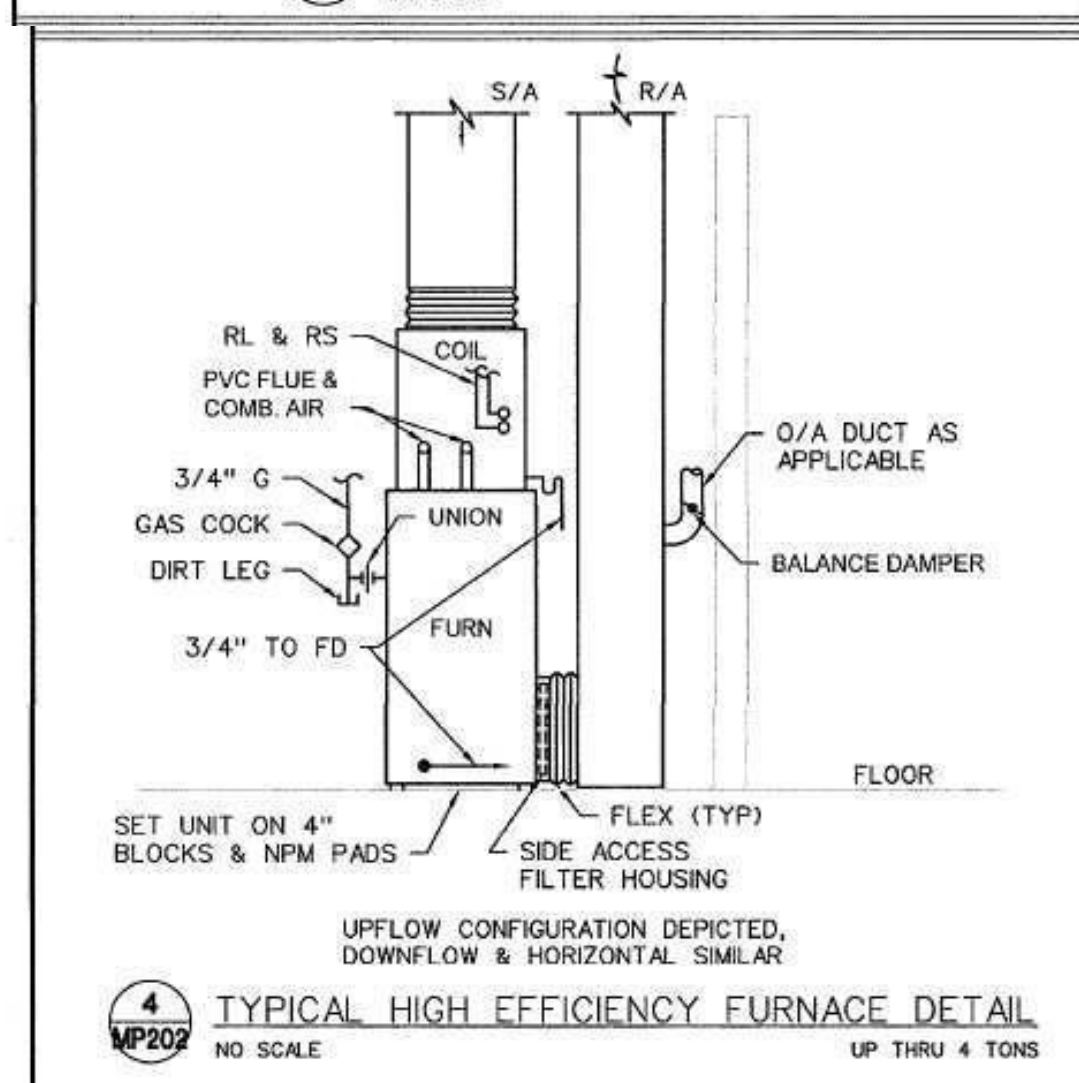
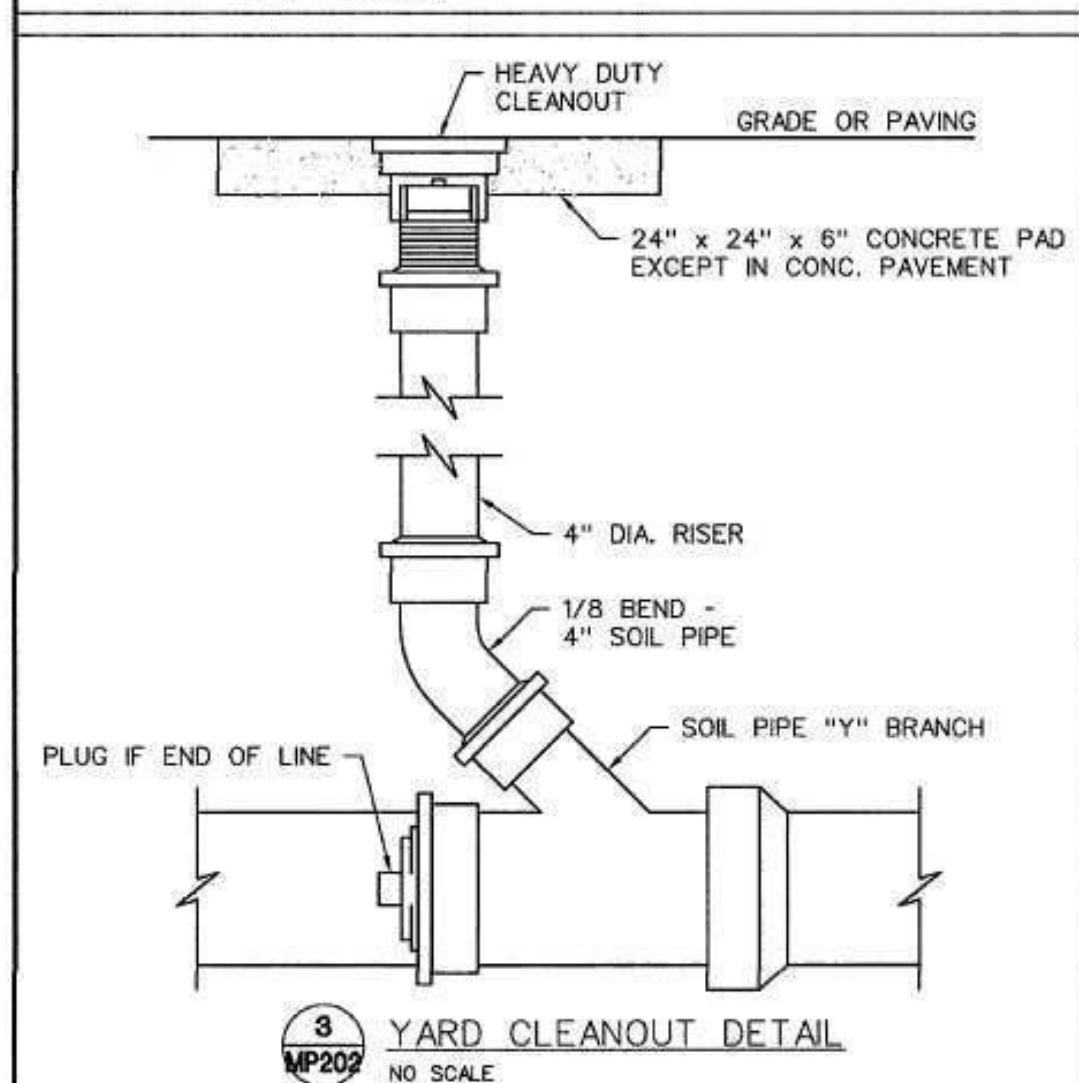
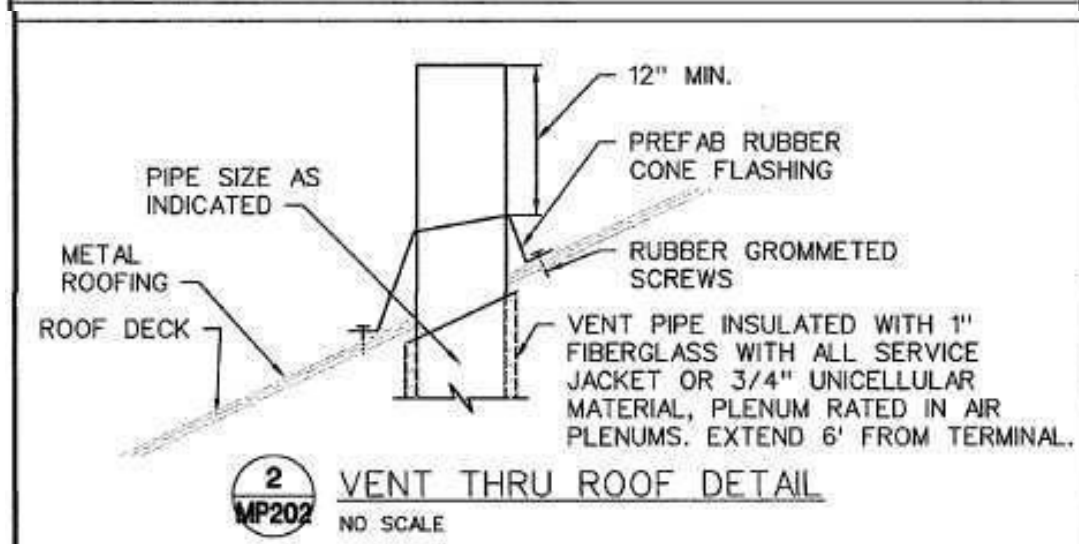
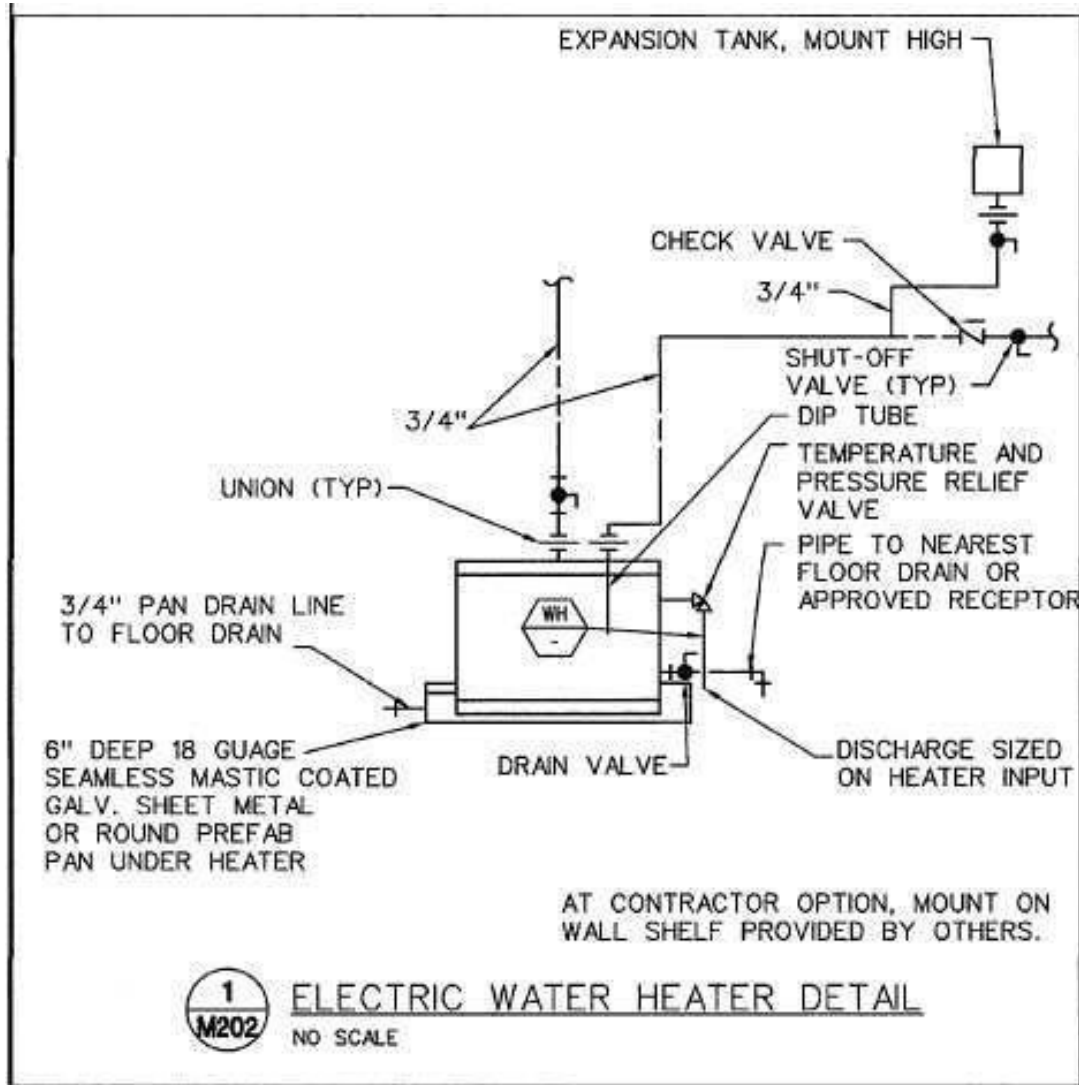
FIRST FLOOR PLUMBING  
 1/8" = 1'-0"



PLUMBING RISER DIAGRAM

HOME BUYER:	PHONE:	DATE DRAWN:	PLAN NO.	SHEET NO.
BUILDER:	PHONE:	DATE REVISED:	CON-8999	OF
SUB-DIVISION:	LOT NO.	DESIGNER:	FILE NAME:	APPROX. SQ. FT.
			8999 P.-1	8999 P.-1

PLUMBER/MECHANICAL IS RESPONSIBLE TO VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL PLUMBING AND ELECTRICAL WORK. ALL DIMENSIONS AND LOCATIONS ARE TO BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE.



**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.

WATER HEATER SCHEDULE (ELECTRIC)												
MARK NO.	MANUFACTURER	MODEL NO.	TYPE	ASME	TANK LINING	STORAGE (GALLONS)	RECOVERY GAL/HR	TEMP. RISE °F	DISCH. SET POINT °F	KW	VOLT	REMARKS
1	LOCHINVAR	KSA03DKD	TANK	N	GL	28	-	-	120	4.5	208	1 60 1

NOTES:  
1. INSTALL IN DRAIN PAN. SEE DETAIL ON SHEET MP202.

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTM D 1227, ASTM D 2282
Brass pipe	ASTM B 43
Chlorinated polyvinyl chloride (CPVC) plastic pipe	ASTM D 2946; ASTM F 441; ASTM F 442; CSA B137.6
Chlorinated polyvinyl chloride/aluminumchlorinated polyvinyl chloride (CPICAL/CPVC)	ASTM F 2855
Copper or copper-alloy pipe	ASTM B 42; ASTM B 302
Copper or copper-alloy tubing (Type K, VK, L, VL, N or VM)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
Cross-linked polyethylene (PEX) plastic pipe and tubing	ASTM F 876; ASTM F 877; AWWA C304; CSA B137.5
Cross-linked polyethylene/aluminumcross-linked polyethylene (PEX-AL/PEX-AL)	ASTM F 1281; ASTM F 2262; CSA B137-10
Cross-linked polyethylene/aluminumhigh-density polyethylene (PEX-AL/HDPE)	ASTM F 1996
Ductile iron water pipe	AWWA C151/A21.51; AWWA C115/A21.15
Galvanized steel pipe	ASTM A 53
Polyethylene (PE) plastic pipe	ASTM D 2330; ASTM D 3035; AWWA C301; CSA B137.11
Polyethylene (PE) plastic tubing	ASTM D 2737; AWWA C301; CSA B137.1
Polyethylene/aluminumpolyethylene (PE-AL/PE) pipe	ASTM F 1282; CSA B137-9
Polyethylene of raised temperature (PE-RT) plastic tubing	ASTM F 2769
Polypropylene (PP) plastic pipe or tubing	ASTM F 2389; CSA B137-11
Polyvinyl chloride (PVC) plastic pipe	ASTM D 1785; ASTM D 2241; ASTM D 2672; CSA B137.3
Stainless steel pipe (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel pipe (Type 316/316L)	ASTM A 312; ASTM A 778

**FIXTURE BRANCH SCHEDULE**

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"	---
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) 1/2"	(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 (fr)	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"	---	---
Egpt Floor Drain	3"	2"	---	---
Hub Drain	2"	1 1/2"	---	---
Dishwasher	2"	1 1/2"	---	1/2"
Washer Box	2"	1 1/2"	1/2"	1/2"
Ice Maker	---	---	1/2"	---
FPWH, HB	---	---	3/4"	---

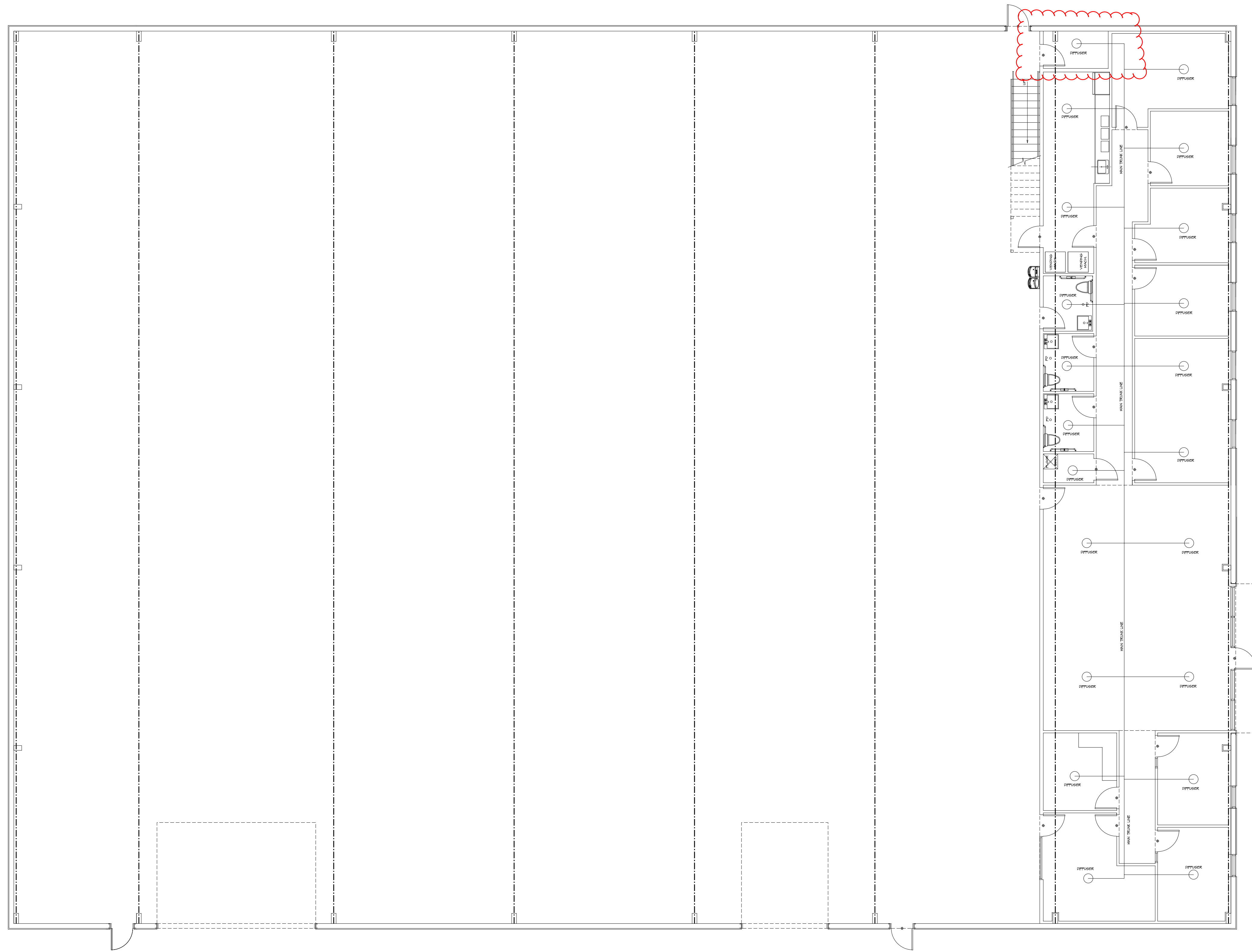
1. Minimum waste or vent size below slab on grade shall be 2".  
2. Size as shown on drawings and diagrams, but not less than listed.

**PLUMBING FIXTURE SCHEDULE**

- 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.
- 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.
- 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 KEY 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 HEAVY 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.
- 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).
- ALL SINKS AND ASSOCIATED FAUCETS ARE PROVIDED BY THE KEG. PC TO PROVIDE BASKET STRAINER DRAIN, TAILPIPE, 3/8-INCH FLEXIBLE RISER W/ANGLE SUPPLIES WITH LOOSE KEY 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 KEG UNLESS OTHERWISE NOTED.
- ELECTRIC WATER COOLER, BI-LEVEL BARRIER 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

SHEET NO. II  
PLAN NO. COM-9999  
FILE NAME: 9/09 P-1  
DATE DRAWN:  
DATE REVISID:  
DESIGNER:  
PHONE:  
PHONE:  
LOT NO.  
HOME BUYER:  
BUILDER:  
SUB-DIVISION:

BUILDER/CONTRACTOR IS RESPONSIBLE TO CHECK ALL DIMENSIONS FOR ACCURACY BETWEEN FLOORS, FOUNDATION, AND ELEVATIONS. ALSO, VERIFY ALL BEAM, HEADERS, JOIST LOCATIONS, AND COLUMN SIZES. BUILDER/CONTRACTOR SHALL CHECK FOR ALL CONFLICTS WITH EXISTING UTILITIES, STRUCTURES, AND OTHER CONDITIONS. BUILDER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, SETBACKS, AND ZONING. BUILDER/CONTRACTOR AND HOME OWNER ACCEPTS RESPONSIBILITY FOR ANY AND ALL COPYRIGHT INFRINGEMENTS OR RESUBMISSIONS TO OTHER COPYRIGHTED PLANS. BUILDER/CONTRACTOR ACCEPTS RESPONSIBILITY FOR ANY ON-SITE CHANGES MADE TO STRUCTURE.



LOWER LEVEL HVAC PLAN  
 1/8" = 1'-0"

MECHANICAL CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL MECHANICAL EQUIPMENT, PIPING, AND ELECTRICAL EQUIPMENT AND TO VERIFY ALL DIMENSIONS AND LOCATIONS AND COORDINATE ALL MECHANICAL AND ELECTRICAL EQUIPMENT TO THE ARCHITECT'S INTENT. MECHANICAL CONTRACTOR ACCEPTS ALL RESPONSIBILITY FOR THE LOCATION, SETBACK, AND PLACEMENT OF ALL MECHANICAL EQUIPMENT AND PIPING. MECHANICAL CONTRACTOR ACCEPTS RESPONSIBILITY FOR ANY AND ALL SITE CONDITIONS AND TO ADJUST THEREAS.

HOME BUYER:	PHONE:	DATE DRAWN:	PLAN NO.:	SHEET NO.:
BUILDER:	PHONE:	DATE REVISED:	COM-899	8
SUB-DIVISION:	LOT NO.:	DESIGNER:	FILE NAME:	APPROX. SQ. FT.:
			899 HVAC1	



UPPER LEVEL HVAC PLAN  
 1/8" = 1'-0"

THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL MECHANICAL EQUIPMENT, PIPING, AND ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LOCATIONS, AND COORDINATE ALL MECHANICAL AND ELECTRICAL SYSTEMS TO THE ARCHITECT'S INTENT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LOCATIONS, AND COORDINATE ALL MECHANICAL AND ELECTRICAL SYSTEMS TO THE ARCHITECT'S INTENT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LOCATIONS, AND COORDINATE ALL MECHANICAL AND ELECTRICAL SYSTEMS TO THE ARCHITECT'S INTENT.

HOME BUYER:	PHONE:	DATE DRAWN:	PLAN NO.	SHEET NO.
BUILDER:	PHONE:	DATE REVISED:	COM-899	8
SUB-DIVISION:	LOT NO.	DESIGNER:	FILE NAME:	APPROX. SQ. FT.
			899 HVLS	899 HVLS

