

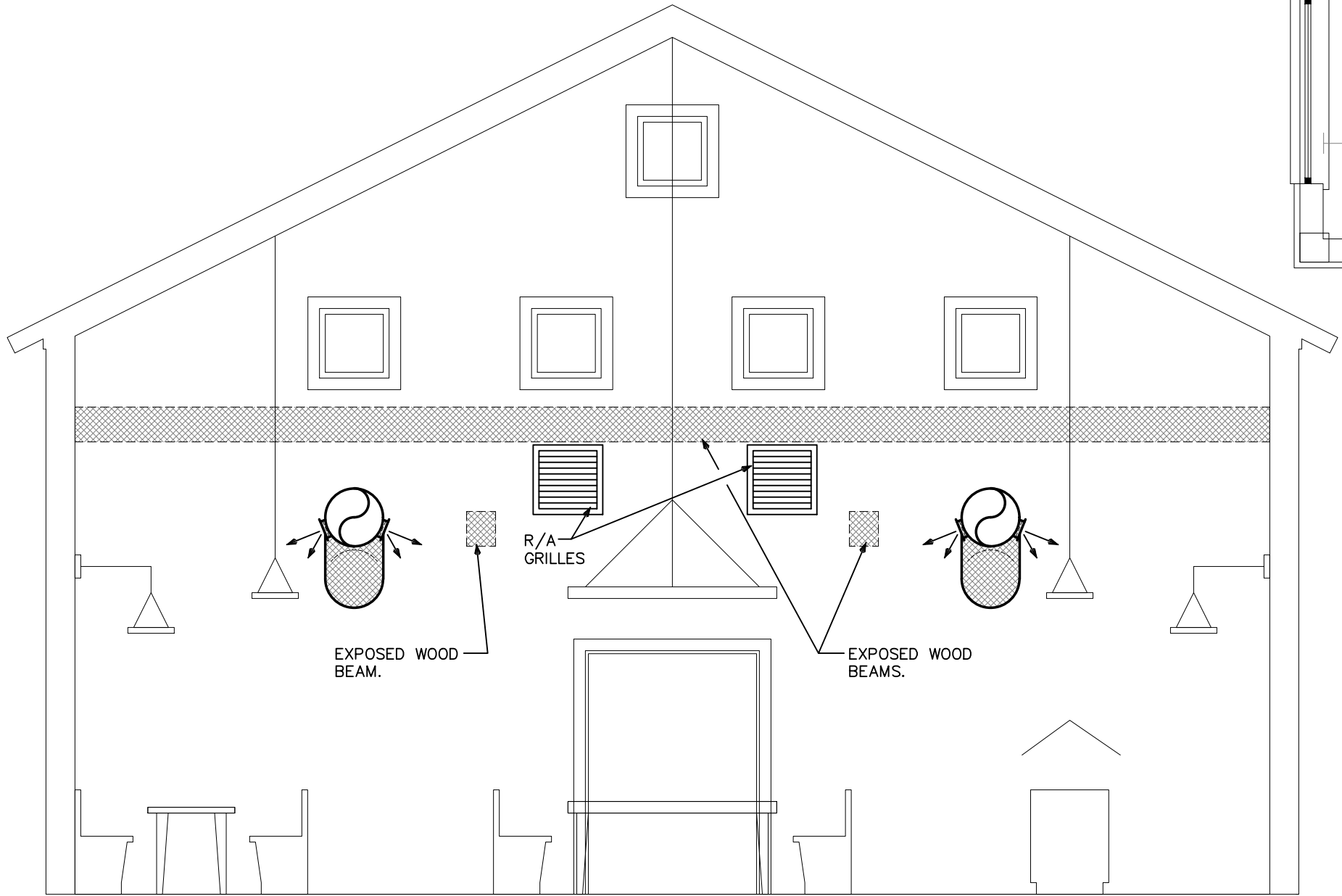
SUPPLY DIFFUSER SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE		ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.		
DESIGNATES CFM QUANTITY FOR DIFFUSER				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS TDC-AA	6"ø	0 - 125	12X12 LOUVERED FACE
B	TITUS TDC-AA	8"ø	130 - 200	24X24 LOUVERED FACE
C	TITUS TDC-AA	10"ø	205 - 325	24X24 LOUVERED FACE
D	TITUS PCS-AA	10"ø	205 - 325	PERFORATED FACE
E	TITUS S300FS	18X6	255 - 400	DIRECT SPIRAL MOUNTED REGISTER

RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR GRILLE TYPE		FILTER SHALL BE PROVIDED AT UNIT.		
DESIGNATES CFM QUANTITY FOR GRILLE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	10X10	0 - 400	LOUVER FACE
2	TITUS 50F	24X24	0 - 3000	EGGCRATE FACE

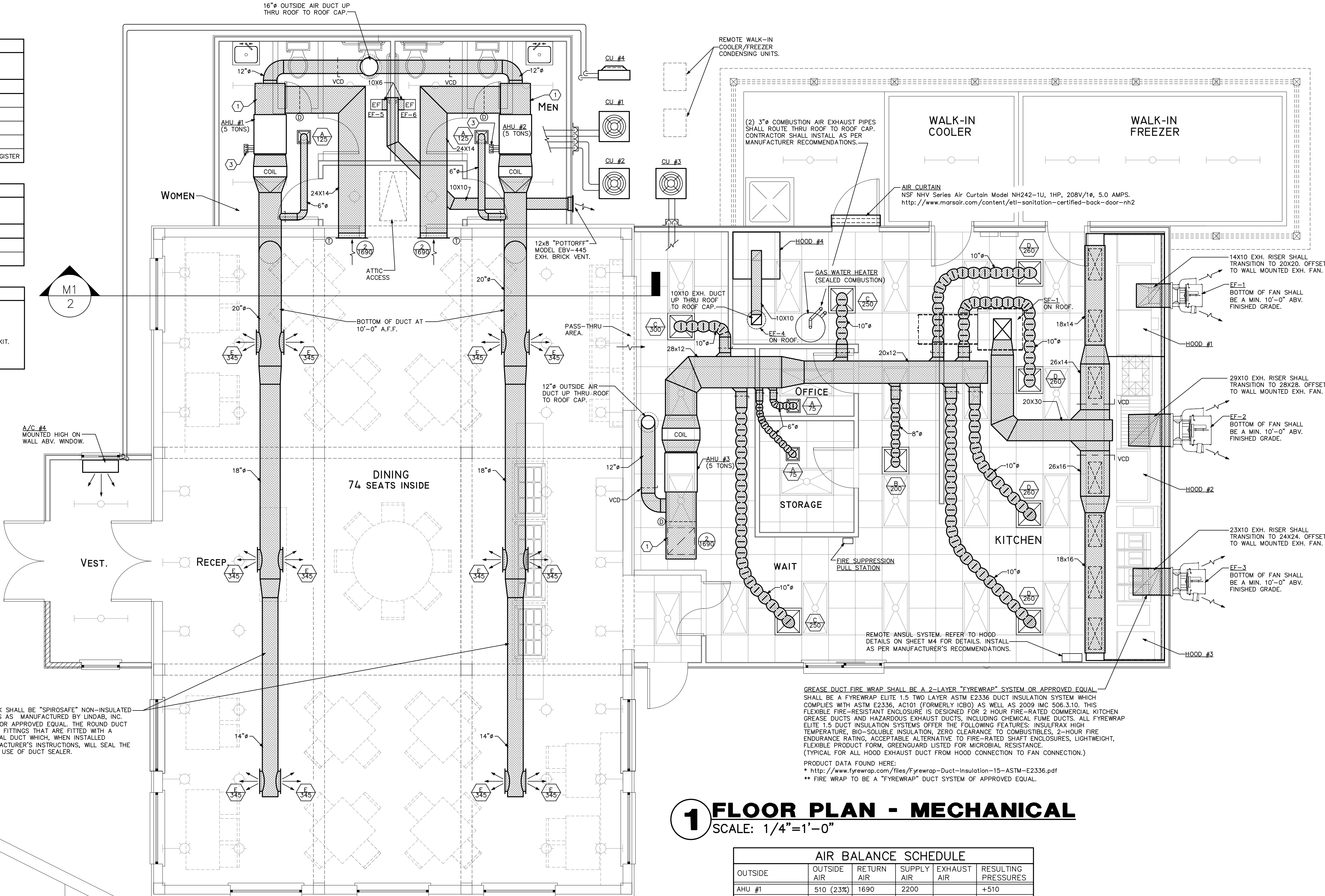
SPECIFIC MECHANICAL NOTES				
1	RETURN AIR DUCT PLENUM SHALL BE FULL SIZE OF AHU RETURN AIR OPENING.			
2	EXPOSED SPIRAL DUCT SHALL TURN UP AND OFFSET ABOVE BEAM. SEE SECTION ON THIS SHEET FOR DETAILS.			
3	(2) 3"ø COMBUSTION AIR PIPES UP TO CONCENTRIC VENT/INTAKE AIR ROOF TERMINATION KIT.			

HVAC SYMBOLS LEGEND	
①	THERMOSTAT, MTD +47" AFF
⊠	EXHAUST FAN
~+~+~+~	SECTION "A"- "A"
⊙	REMOTE BULB SENSOR
⊕	DUCT SMOKE DETECTOR
↕	TRANSITION
↻	TURNING VANE
└┐	45° BRANCH DUCT TAKE-OFF
⌘	FIRE DAMPER
⌘	VOLUME CONTROL DAMPER
↺	RETURN REGISTER
↻	SUPPLY DIFFUSER
↺	RETURN AIR GRILLE
↻	SUPPLY REGISTER
↔	DUCTWORK TRANSITION
⊙	ROOF MTD. EXH. FAN
⌘	DUCT TURN DOWN
⌘	DUCT TURN UP
⊕	FLEXIBLE DUCT

NOTE:
EXPOSED ROUND DUCTWORK SHALL BE "SPIROSAFE" NON-INSULATED SINGLE WALL SPIRAL DUCTS AS MANUFACTURED BY LINDAB, INC. <http://www.lindabusa.com> OR APPROVED EQUAL. THE ROUND DUCT SYSTEM SHALL CONSIST OF FITTINGS THAT ARE FITTED WITH A SEALING GASKET AND SPIRAL DUCT WHICH, WHEN INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS, WILL SEAL THE DUCT JOINTS WITHOUT THE USE OF DUCT SEALER.



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



1 FLOOR PLAN - MECHANICAL
SCALE: 1/4"=1'-0"

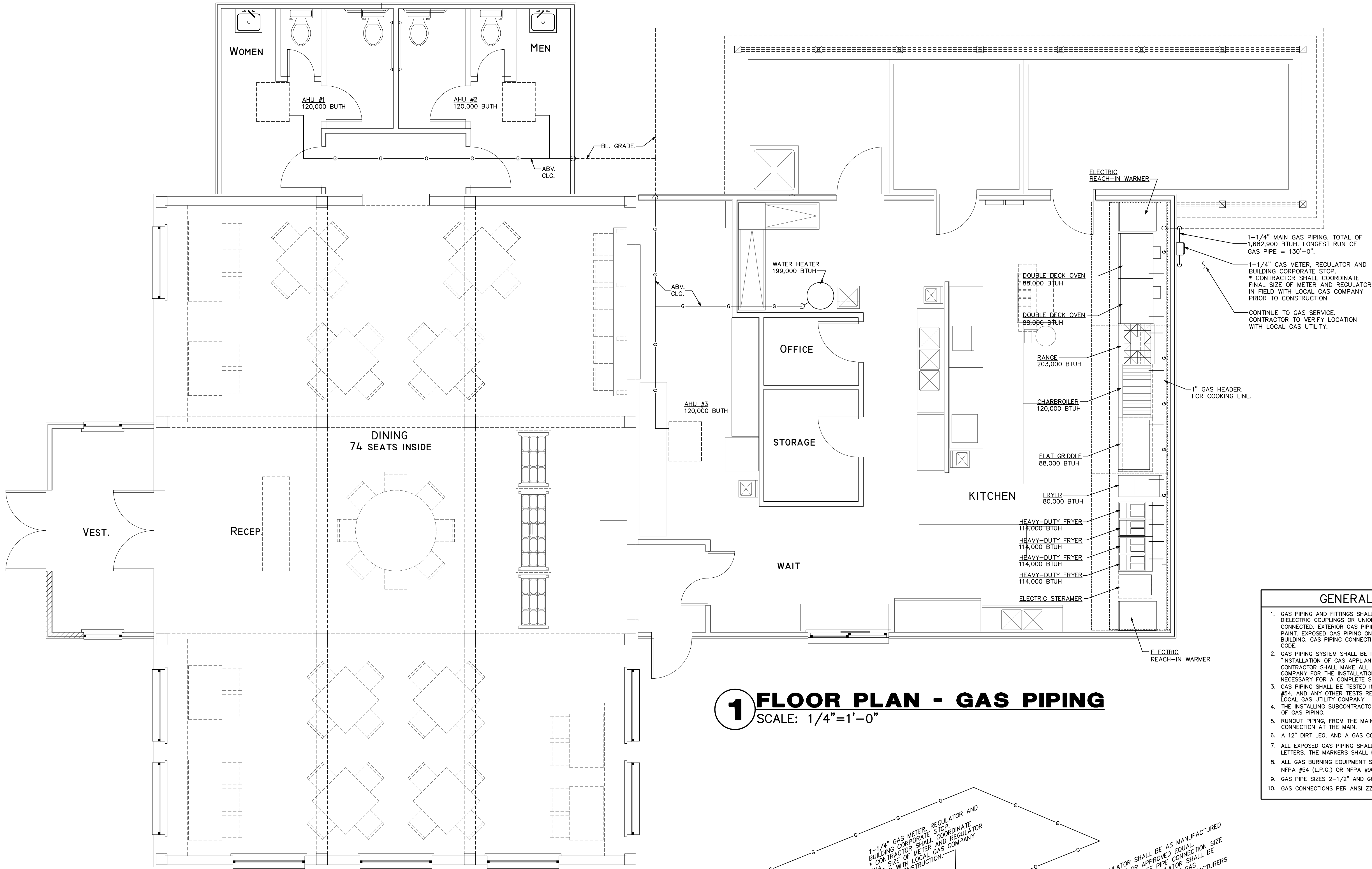
AIR BALANCE SCHEDULE					
OUTSIDE	OUTSIDE AIR	RETURN AIR	SUPPLY AIR	EXHAUST AIR	RESULTING PRESSURES
AHU #1	510 (23%)	1690	2200		+510
AHU #2	510 (23%)	1690	2200		+510
AHU #3	510 (23%)	1690	2200		+510
EF-1 (HOOD 1)				1544	-1544
EF-2 (HOOD 2)				3035	-3035
EF-3 (HOOD 3)				2490	-2490
EF-4 (HOOD 4)				525	-525
EF-5 (T.L.T. RM.)				190	-190
EF-6 (T.L.T. RM.)				190	-190
SF-1 (HOOD 1,2,3)	5647				+5647
TOTAL	7177	5070	6600	7974	-797

H.V.A.C. ABBREVIATION LEGEND			
A/C	AIR CONDITIONER	REV.	REVISION
DN.	DOWN	N.T.S.	NOT TO SCALE
EXH.	EXHAUST	MFG.	MANUFACTURER
EXT.	EXTERIOR	R/A	RETURN AIR
E.F.	EXHAUST FAN	GR.	GRILLE
A.F.F.	ABOVE FINISH FLOOR	C.D.	CEILING DIFFUSER
F.F.	FINISH FLOOR	F/A	FRESH AIR
TYP.	TYPICAL	REG.	REGISTER
		C.U.	CONDENSING UNIT
		A.H.U.	AIR HANDLING UNIT
		D.G.	DOOR GRILLE
		F.I.D.	FIRE DAMPER
		DISP.	DISPOSABLE
		V.C.D.	VOLUME CONTROL DAMPER
		F/A	FRESH AIR
		S.P.	SAFE PAN
		CD.	CONDENSATE DRAIN

AIR COOLED AIR CONDITIONING UNIT SCHEDULE													
CONDENSING UNIT							INDOOR UNIT						
CU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CAPACITY COOLING	TOTAL CAPACITY HEATING	COMP. RLA	VOLTAGE	MOCP	AHU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CFM	FAN FLA	BLOWER SPEED	VOLTAGE	WEIGHT
CU #4	(1) MITSUBISHI MUZ-GE09NA	9,000	10,900	6.6	208V/1ø	15A	A/C #4	(1) MITSUBISHI MSZ-GE09NA	230	0.76	MED.	208V/1ø	22 lbs. 1,2,3

SPECIFIC NOTES:
1) SIZE AND RUN REFRIGERANT PIPING AS PER MANUFACTURERS PUBLISHED RECOMMENDATIONS.
2) INSULATE REFRIGERANT SUCTION LINE WITH 3/4" ARMAFLEX OR APPROVED EQUAL.
3) POWER SUPPLY IS TO OUTDOOR UNIT, INTERCONNECTING WIRING FROM OUTDOOR UNIT TO INDOOR UNIT. REFER TO ELECTRICAL PLANS FOR CONTROL.

NOTE:
REFER TO SHEET M-3 FOR OTHER MECHANICAL EQUIPMENT SCHEDULES.

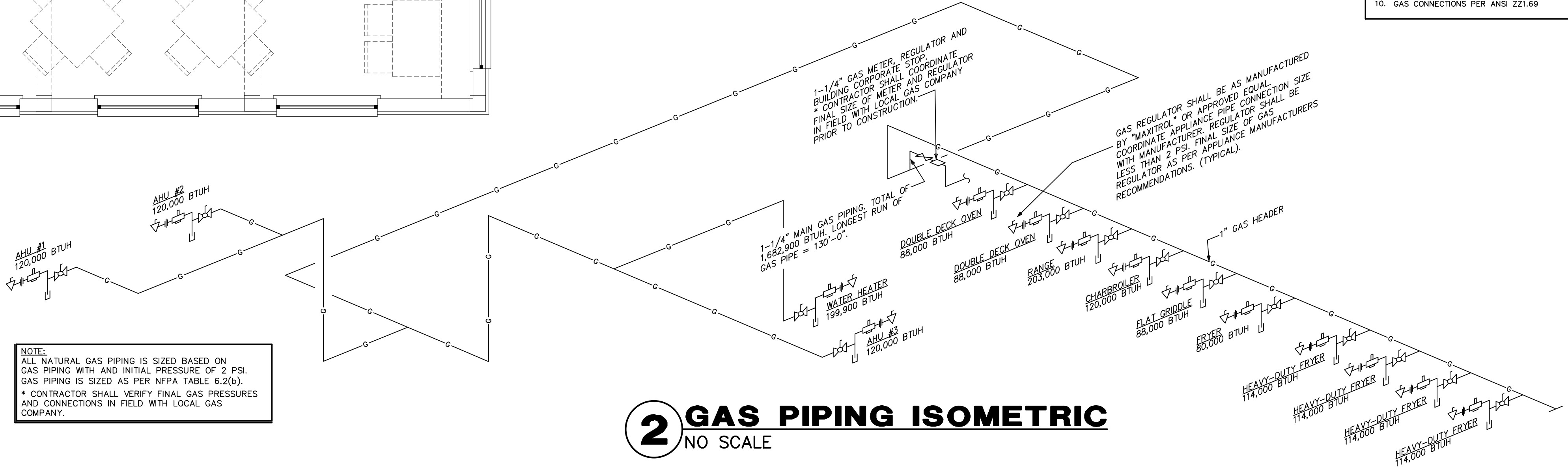


1 FLOOR PLAN - GAS PIPING
SCALE: 1/4"=1'-0"

- GENERAL GAS PIPING NOTES**
1. GAS PIPING AND FITTINGS SHALL BE SEAMLESS BLACK STEEL WITH MALLEABLE IRON FITTINGS. DIELECTRIC COUPLINGS OR UNIONS SHALL BE UTILIZED WHEN PIPING OF DISSIMILAR METAL IS CONNECTED. EXTERIOR GAS PIPING ON ROOF SHALL BE PAINTED WITH YELLOW "RUSTOLEUM" PAINT. EXPOSED GAS PIPING ON BACK WALL SHALL BE "RUSTOLEUM", PAINTED TO MATCH BUILDING. GAS PIPING CONNECTIONS SHALL BE THREADED UNLESS OTHERWISE REQUIRED BY CODE.
 2. GAS PIPING SYSTEM SHALL BE INSTALLED TO THE REQUIREMENTS OF THE ASH PAMPHLET "INSTALLATION OF GAS APPLIANCES AND GAS PIPING" AND THE NFPA STANDARD #54. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND PAY ALL FEES WITH THE "LOCAL" GAS COMPANY FOR THE INSTALLATION OF THE GAS METER, GAS SERVICE, AND ITS ACCESSORIES NECESSARY FOR A COMPLETE SYSTEM.
 3. GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN NFPA #54, AND ANY OTHER TESTS REQUIRED BY THE LOCAL BUILDING DEPARTMENT AND/OR THE LOCAL GAS UTILITY COMPANY.
 4. THE INSTALLING SUBCONTRACTOR SHALL BE LICENSED BY THE STATE FOR THE INSTALLATION OF GAS PIPING.
 5. RUNOUT PIPING, FROM THE MAIN PIPING TO APPLIANCES, SHALL BE WITH AN INVERTED TRAP CONNECTION AT THE MAIN.
 6. A 12" DIRT LEG, AND A GAS COCK, SHALL BE PROVIDED AT ALL GAS APPLIANCES.
 7. ALL EXPOSED GAS PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED "GAS" IN BLACK LETTERS. THE MARKERS SHALL BE AT INTERVALS NOT EXCEEDING 5'.
 8. ALL GAS BURNING EQUIPMENT SHALL BE INSTALLED PER NFPA #58, NFPA #54 (L.P.G.) OR NFPA #96 (COMMERCIAL COOKING EQUIPMENT).
 9. GAS PIPE SIZES 2-1/2" AND GREATER SHALL BE WELDED, IF REQUIRED BY CODE.
 10. GAS CONNECTIONS PER ANSI Z21.69

GAS PIPE LEGEND	
	BALL VALVE
	DRIP LEG
	REGULATOR/OPD AS REQUIRED
	UNION
	QUICK DISCONNECT

NOTE:
ALL NATURAL GAS PIPING IS SIZED BASED ON GAS PIPING WITH AND INITIAL PRESSURE OF 2 PSI. GAS PIPING IS SIZED AS PER NFPA TABLE 6.2(b).
* CONTRACTOR SHALL VERIFY FINAL GAS PRESSURES AND CONNECTIONS IN FIELD WITH LOCAL GAS COMPANY.



2 GAS PIPING ISOMETRIC
NO SCALE

EXHAUST FAN INFORMATION – Job#1985725

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
EF-1		NCA10FA	1544	0.700	1291	0.500	3	208	1.8	114	13.8
EF-2		NCA16FA	3025	0.900	1049	1.500	3	208	4.7	167	12.6
EF-3		NCA14FA	2490	0.800	1280	1.000	3	208	3.3	141	17.1
EF-4		DU30HFA	525	0.700	1332	0.250	1	115	4.0	62	9.3

MUA FAN INFORMATION – Job#1985725

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	CFM	ESP.	RPM	H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
SF-1		A2-G15	G15-PB	A2	5647	0.750	769	5,000	3	208	15.0	432	15.7

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. – Descr.)
EF-1		1 – Grease Box 1 – Wallmount 20.5" sq. x 2"
EF-2		1 – Grease Box 1 – Wallmount 27.5 sq. x 2"
EF-3		1 – Grease Box 1 – Wallmount 24.25" sq. x 2"
EF-4		1 – Grease Box

ELECTRICAL PACKAGES – Job#1985725

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	ø	H.P.	VOLT	FLA
1		SC-33110FP	Wall Mount In SS Box	Face Mount Left Side Hood	1 Light	Smart Controls Thermostatic Control	Exhaust	3	0.500	208	1.8
				Hood # 1	1 Fan		Exhaust	3	1.500	208	4.7
							Exhaust	3	1.000	208	3.3
							Supply	3	5.000	208	15.0

HOOD PREWIRE PACKAGE WIRING INFORMATION

GENERAL MECHANICAL NOTES

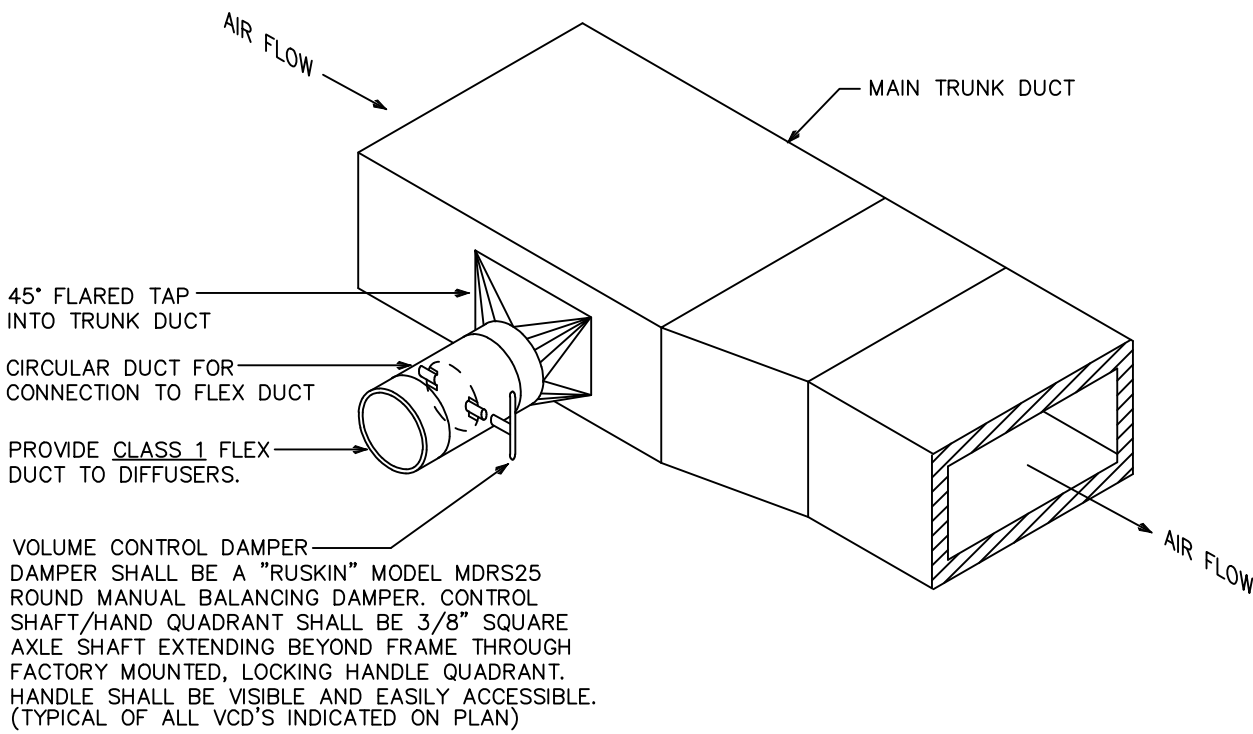
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS: SMACNA, ASHRAE, NFPA 90A, 90B, 91 & ANSI B-9.1 ALL DUCTWORK SHALL BE FABRICATED, INSTALLED, AND SUPPORTED AS PER SMACNA STANDARDS.
- THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES. TO INSURE AN ORDERLY PROGRESS OF THIS WORK.
- THE CONTRACTOR SHALL SUPPLY THE OWNER WITH ONE SET OF "AS-BUILT" DRAWINGS UPON COMPLETION OF THIS PROJECT. CONTRACTOR SHALL ALSO LEAVE FOR ONE AT LEAST ONE SET OF THE MANUFACTURER'S INSTALLATION AND OPERATIONS MANUALS FOR ALL EQUIPMENT PROVIDED ON THE PROJECT.
- ALL PROVIDED MATERIALS SHALL BE NEW OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED WORKMAN.
- CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT. IT IS STRONGLY PREFERRED THAT THE SUBMITTALS BE MADE IN THE FORM OF AN ELECTRONIC SUBMITTAL IN A PDF TYPE FORMAT.
- ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE GALVANIZED SHEET STEEL EXTERNALLY WRAPPED WITH WITH A MIN. OF R5 INSULATION OR R6 IF DUCTWORK IS LOCATED EXTERIOR TO BLDG INSULATION ENVELOPE. ALL FLEX DUCT SHALL BE "THERMOFLEX" OR APPROVED EQUAL AND SHALL HAVE EQUIVALENT INSULATION. * ALL EXPOSED DUCTWORK IN DINING AREA SHALL BE SINGLE WALL SPIRAL DUCT. REFER TO PLAN FOR SPECIFICATIONS.
- ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS.
- DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
- ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. DEVICES SHALL BE TITUS, METALAIR, AIRGUIDE. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS.
- THERMOSTAT SHALL BE COMBINATION COOLING/HEATING WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES. PROVIDE PROGRAMMABLE TYPE THERMOSTAT. * CONTRACTOR SHALL FULLY INSTRUCT OWNER ON HOW TO PROPERLY PROGRAM INSTALLED THERMOSTATS. * PROGRAMMABLE THERMOSTAT SHALL BE BY MANUFACTURER OF INSTALLED AIR HANDLING UNIT. IT IS RECOMMENDED THAT DURING OCCUPIED HOURS, THE FANS BE SET TO "ON" IN LIEU OF "AUTO". * THERMOSTATS SHALL BE MOUNTED A MAX. OF 48" A.F.F.
- REFRIGERANT LINES SHALL BE COPPER, TYPE "L" HARD DRAWN WITH WROUGHT COPPER SOLDER-JOINT TYPE FITTINGS, USE 95/5 SOLDER. REFRIGERANT LINES SHALL SIZED AS PER MANUFACTURER RECOMMENDATIONS.
- SPLIT SYSTEMS (IF APPLICABLE) SHALL HAVE ARMAFLEX 3/4" INSULATION (OR APPROVED EQUAL) USED FOR SUCTION LINES. INSTALLATION SHALL BE AS PER MANUFACTURERS INSTRUCTIONS. PRE-INSULATED LINES SETS ARE ACCEPTABLE.
- ALL BRANCH TAKE-OFFS TO BE PROVIDED W/MANUAL VOLUME DAMPERS AND TAPS AS PER PLANS REQUIREMENTS.
- PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO FINAL ACCEPTANCE BY OWNER.
- PROVIDE SMOKE DETECTORS WITH ACCESS DOORS IN ALL SUPPLY AIR DUCTS FOR FANS AND AHU'S SERVING A COMMON DESIGN SUPPLY OR RETURN PLENUM OF ABOVE 2000 CFM. ALL SMOKE DETECTORS BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING. UPON DETECTION, SMOKE DETECTORS SHUT DOWN ASSOCIATED AIR MOVING EQUIPMENT AND ALL AIR MOVING EQUIPMENT SERVING COMMON PLENUM.
- HVAC CONTRACTOR SHALL PROVIDE A TEST AND BALANCE REPORT FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS, AHU'S AND FANS. THE T & B SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS, AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLS, RETURN GRILLS, AND EXHAUST GRILLS, AND THE LEAVING AND ENTERING AIR TEMPERATURE (°F) FROM SUPPLY GRILLS AND EVAPORATORS.
- THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER BEFORE INSTALLATION.
- ALL INSULATION SHALL HAVE FIRE/SMOKE RATING LESS THAN 25/50.
- MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCH. PLUMBING, ELECTRICAL AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL INSTALL ALL OUTDOOR EQUIPMENT TO WITHSTAND WIND LOADING FORCES AS REQUIRED BY LOCAL CODES. REFER TO STRUCTURAL PLANS BY OTHERS FOR STRUCTURAL DETAILS.
- PROVIDE ALL NECESSARY CONTACTORS, RELAYS, ETC., FOR A COMPLETE OPERATING SYSTEM.
- THROUGHOUT THE COURSE OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO THE PLANS AND SPECIFICATIONS MAY BE REQUESTED BY THE TENANT. THE CONTRACTOR SHALL MAKE SUCH ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE TENANT, WHERE SUCH ADJUSTMENTS ARE NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE SYSTEMS, AND WITHIN THE INTENT OF THE CONTRACT DOCUMENTS.
- NOTWITHSTANDING ANY OTHER PROVISIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR BEARS ULTIMATE RESPONSIBILITY FOR COMPLIANCE OF THE INSTALLATION WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- IF ANY ERRORS, DISCREPANCIES OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF SUCH ERROR OR OMISSION. IN THE EVENT OF THE CONTRACTOR FAILING TO GIVE SUCH NOTICE BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK, HE WILL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS, DISCREPANCIES OR OMISSIONS AND THE COST OF RECTIFYING SAME.

CURB ASSEMBLIES

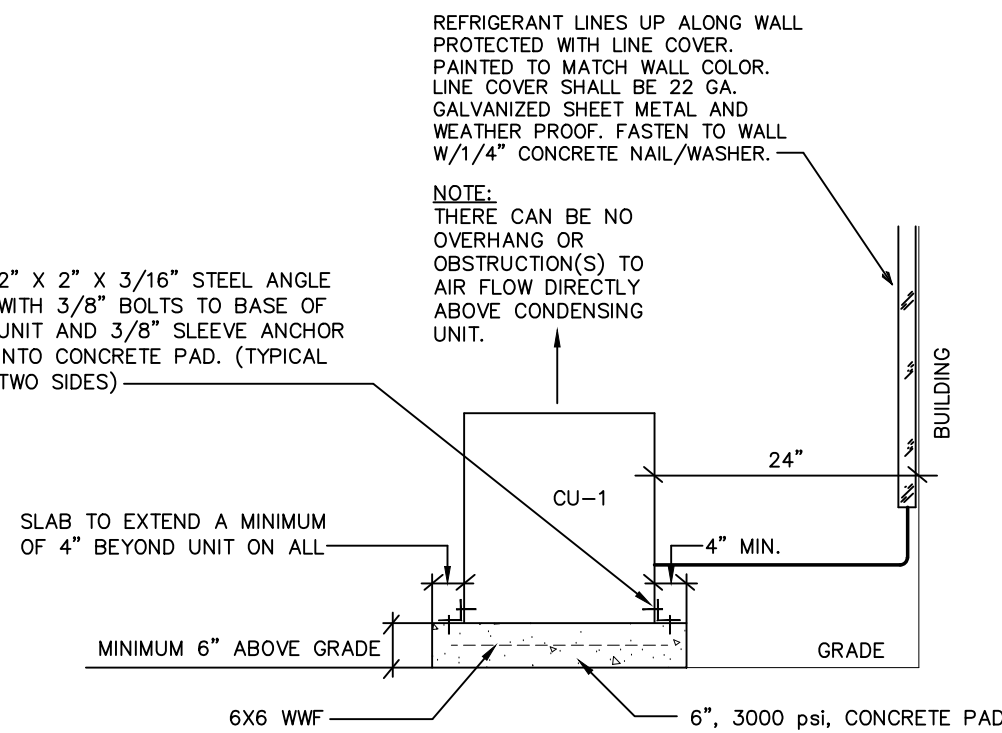
NO.	ON FAN	WEIGHT	ITEM	SIZE		
SF-1	SF-1	42 LBS	Curb	31,000"W x 31,000"L x 15,000"H	5,000:12,000	Pitch
EF-4	EF-4	18 LBS	Curb	19,500"W x 19,500"L x 14,000"H	5,000:12,000	Pitch

FAN ACCESSORIES

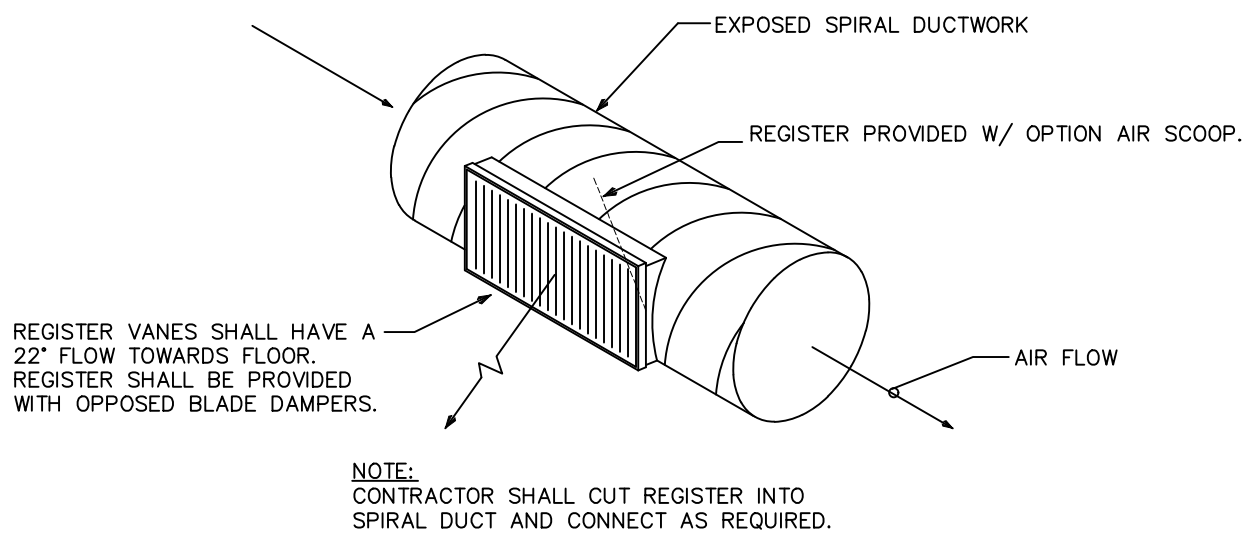
FAN UNIT NO.	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
EF-1				YES				
EF-2				YES				
EF-3				YES				



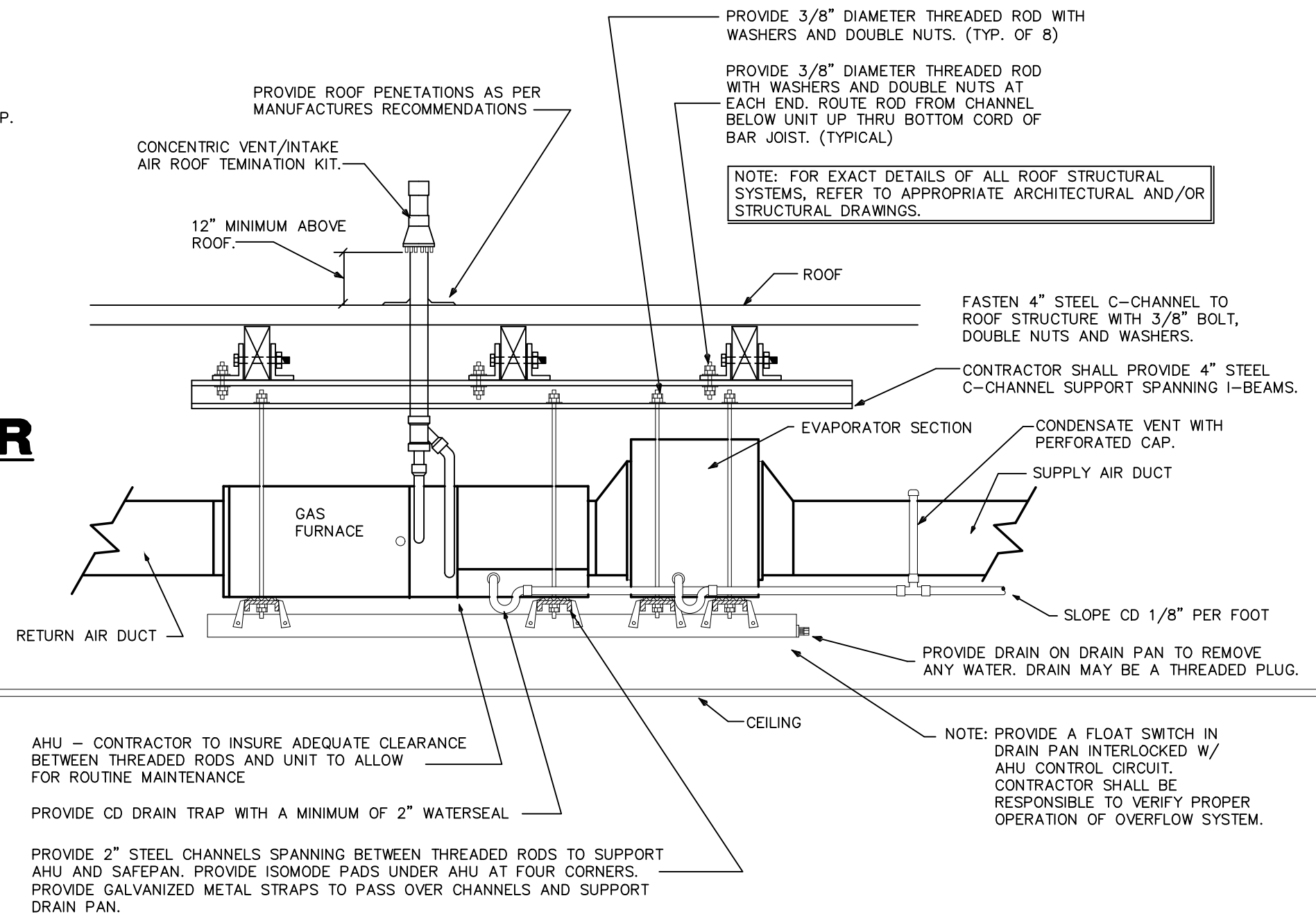
1 BRANCH DUCT DETAIL
NO SCALE



2 COND. UNIT MTG. DETAIL
NO SCALE



3 SPIRAL DUCT / REGISTER CONNECTION DETAIL
NO SCALE



4 AHU MOUNTING DETAIL
NO SCALE

OUTSIDE AIR CALCULATIONS

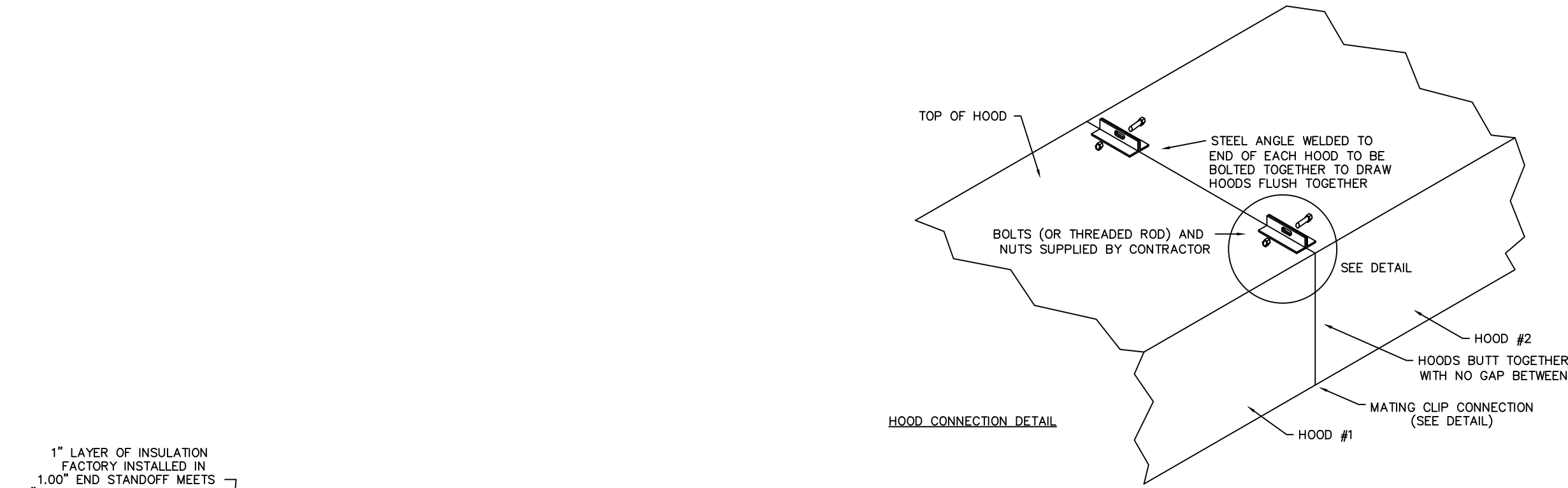
THE FOLLOWING IS BASED ON ASHRAE STANDARD 62.1-2010 FOR OUTSIDE AIR REQUIREMENTS						
UNIT LABEL	OCCUPANCY CATEGORY	AREA	ESTIMATED MAX. OCCUPANCY	OUTSIDE AIR REQUIRED (CFM)	E _z	TOTAL
AHU #1&2	DINING	1,460	74 PEOPLE AS PER ARCH. PLANS/7.5 CFM PER PERSON	(74 X 7.5) + (1,460 X .18) = 817 PEOPLE AREA TOTAL	0.8	817/0.8 = 1,021
AHU #3	KITCHEN	1,000	20 PEOPLE PER 1,000 S.F./7.5 CFM PER PERSON	(20 X 7.5) + (1,000 X .12) = 270 PEOPLE AREA TOTAL		
AHU #3	OFFICE	35	5 PEOPLE PER 1,000 S.F./5 CFM PER PERSON	(1X5) + (35 X .06) = 7 PEOPLE AREA TOTAL		
AHU #3	STORAGE	60	0.12 CFM PER SQ. FT.	(N/A) + (60 X .12) = 7 PEOPLE AREA TOTAL		
				AHU #2 TOTAL = 284	0.8	284/0.8 = 355

FAN SCHEDULE

LABEL	TYPE OF UNIT – AREA SERVED	MANUFACTURER & MODEL NO.	CFM	SP	MOUNTING ARRANGEMENT	MOTOR H.P.	ENCLOSURE TYPE	RPM	VOLTAGE	NOTES
EF-1,2,3,4	REFER TO HOOD DETAILS AND SPECIFICATIONS ON THIS SHEET AND SHEET M-4, M-5									
EF-5,6	CABINET FAN – REFER TO PLANS	PENN ZEPHYR 27	190	.125"	CEILING MOUNTED	68 WATTS	OPEN DRIP PROOF	1640	115V/1ø	1

NOTES: 1) REFER TO ELECTRICAL PLANS FOR CONTROL.

GAS FURNACE W/SPLIT SYSTEM AIR CONDITIONING SYSTEM SCHEDULE																
CONDENSING UNIT							EVAPORATOR COIL UNIT			GAS FURNACE						
CU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CAPACITY	SENSIBLE CAPACITY	COMP. RLA	FAN FLA	VOLTAGE	MOCP	EER/SEER	MANUFACTURER & MODEL NO.	AHU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CFM	E.S.P.	BLOWER SPEED	FAN HP	VOLTAGE
CU #1	CARRIER 24ABB360A0050	59,270	43,360	16.0	1.4	208V/3ø	30A	13.0	CARRIER CNPH 060	AHU #3	CARRIER 59SC2B120S21131422	2,200	.30"	HIGH	1	120V/1ø
CU #2	CARRIER 24ABB360A0050	59,270	43,360	16.0	1.4	208V/3ø	30A	13.0	CARRIER CNPH 060	AHU #3	CARRIER 59SC2B120S21131422	2,200	.30"	HIGH	1	120V/1ø
CU #3	CARRIER 24ABB360A0050	59,270	43,360	16.0	1.4	208V/3ø	30A	13.0	CARRIER CNPH 060	AHU #3	CARRIER 59SC2B120S21131422	2,200	.30"	HIGH	1	120V/1ø
GENERAL NOTES:							ABBREVIATION LEGEND:			SPECIFIC NOTES:						
* ALL RATINGS ARE AT AIR ENTERING CONDITIONS UNLESS OTHERWISE NOTED.							O/A – OUTSIDE AIR			1) SIZE AND RUN REFRIGERANT PIPING AS PER MANUFACTURERS PUBLISHED RECOMMENDATIONS.						
* PROVIDE VIBRATION ISOLATION FOR UNITS.							HP – HORSE POWER			2) INSULATE REFRIGERANT SUCTION LINE WITH 2/4" ARMAFLEX OR APPROVED EQUAL.						
* EXTERNAL STATIC PRESSURE DOES NOT INCLUDE COIL OR FILTER PRESSURE DROP.							RLA – RUNNING LOAD AMPS			3) PROVIDE 5 YEAR WARRANTY ON COMPRESSOR AND 1 YEAR WARRANTY ON ALL PARTS AND LABOR.						
* CONTRACTOR MAY SUBSTITUTE MANUFACTURER FOR APPROVED EQUAL. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ANY CLEARANCE REQUIREMENTS ARE MET FOR ANY SUBSTITUTIONS.							FLA – FULL LOAD AMPS			4) FURNACE SHALL BE PROVIDED WITH CONCENTRIC VENT/INTAKE AIR ROOF TERMINATION KIT.						
							MOCP – MAX. OVERCURRENT PROTECTION (DUAL ELEMENT TYPE FUSE)									
							E.S.P. – EXTERNAL STATIC PRESSURE									
							EER – ENERGY EFFICIENCY RATIO									
							SEER – SEASONAL ENERGY EFF. RATIO									

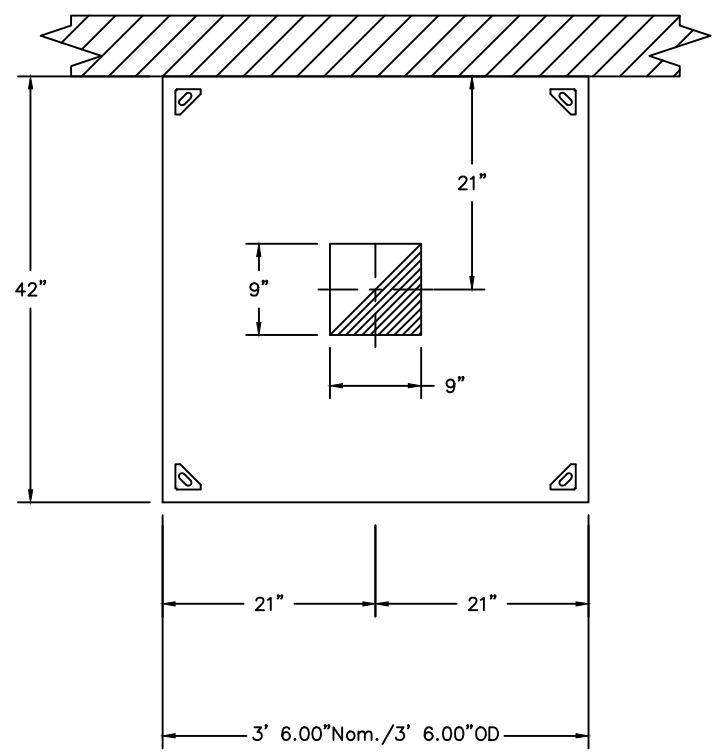


CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

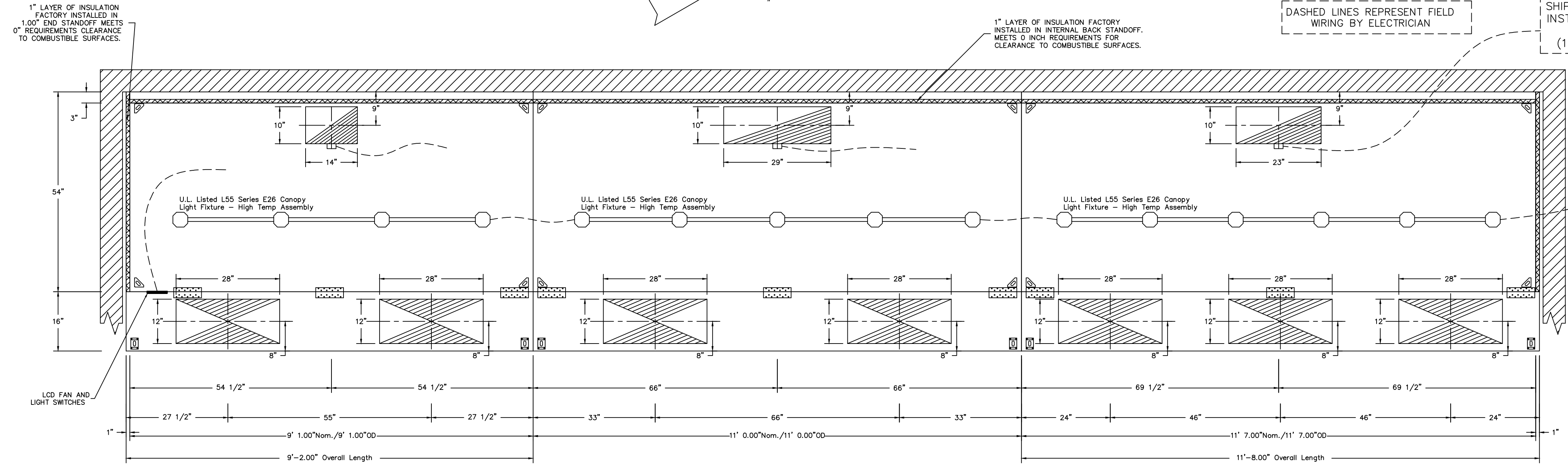
NSF
NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

****Room Temp Senspr****
To be installed and field wired to ECP by electrician

PREWIRE PACKAGE
SHIPPED LOOSE FOR FIELD INSTALLATION BY JOBSITE ELECTRICIAN
(12 X 18 X 8" SS BOX)



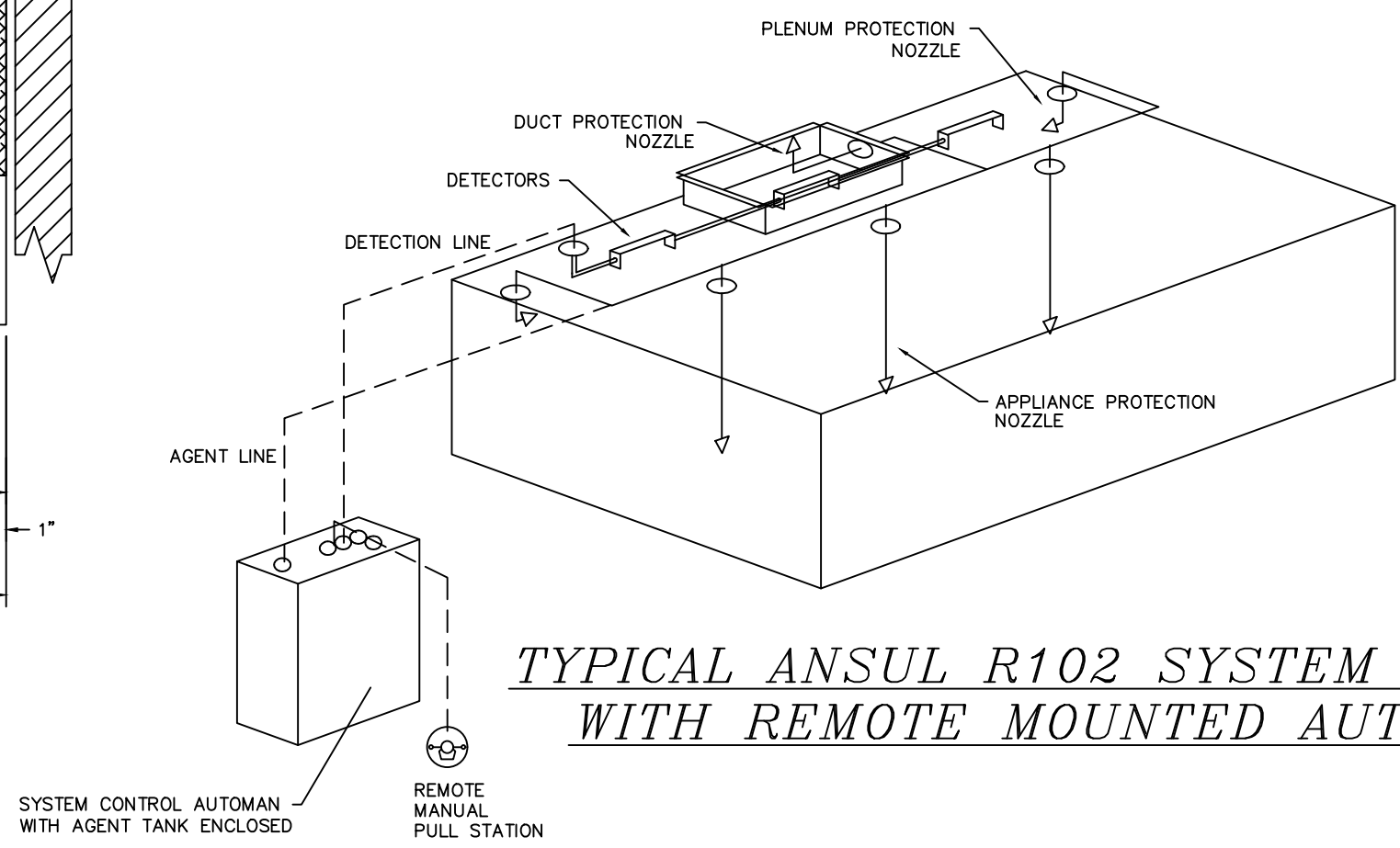
PLAN VIEW - Hood #4 (DISH)
3' 6.00" LONG 4224VHB-G



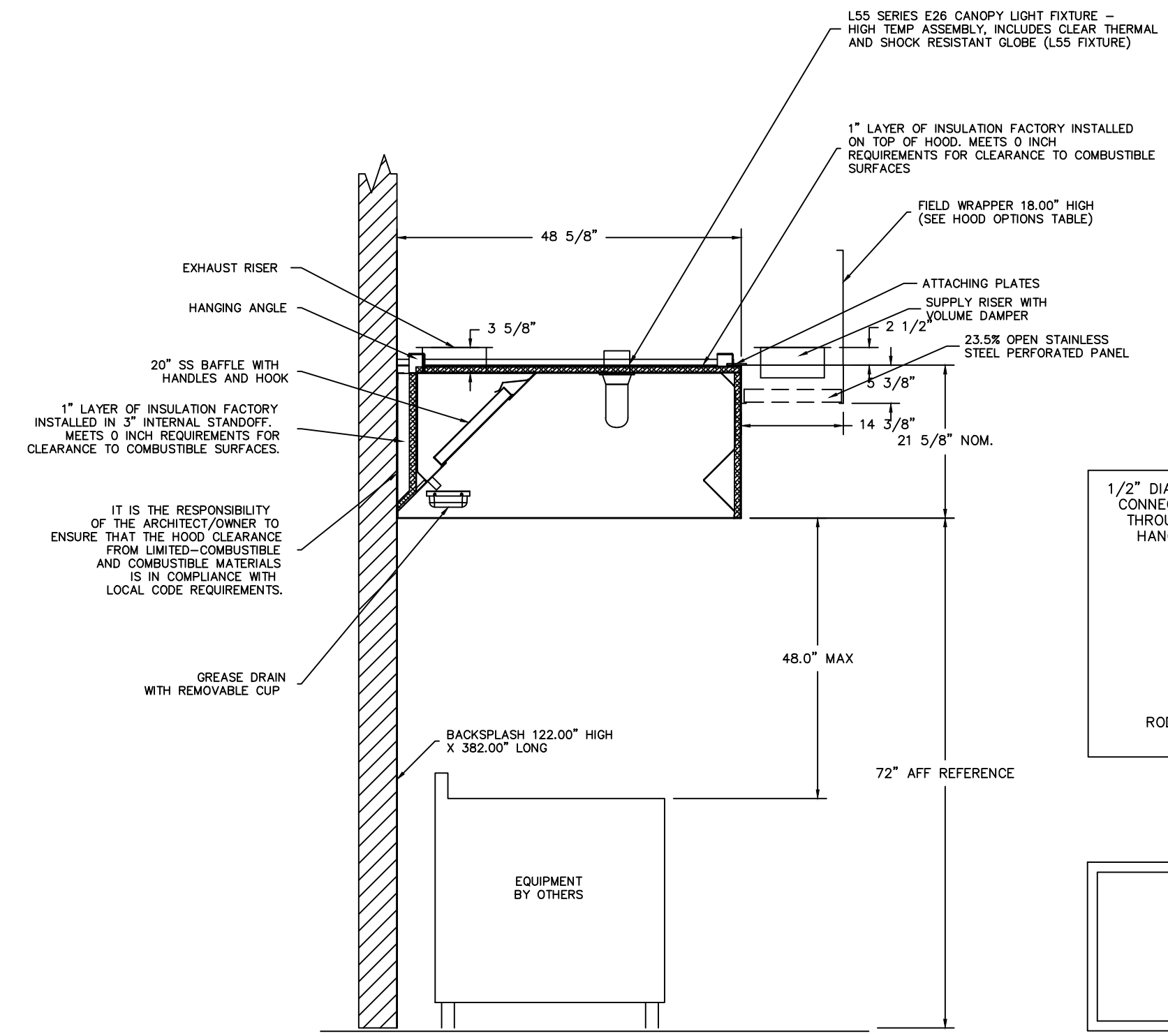
PLAN VIEW - Hood #1 (LEFT)
9' 1.00" LONG 5424ND-2-PSP-F

PLAN VIEW - Hood #2 (MIDDLE)
11' 0.00" LONG 5424ND-2-PSP-F

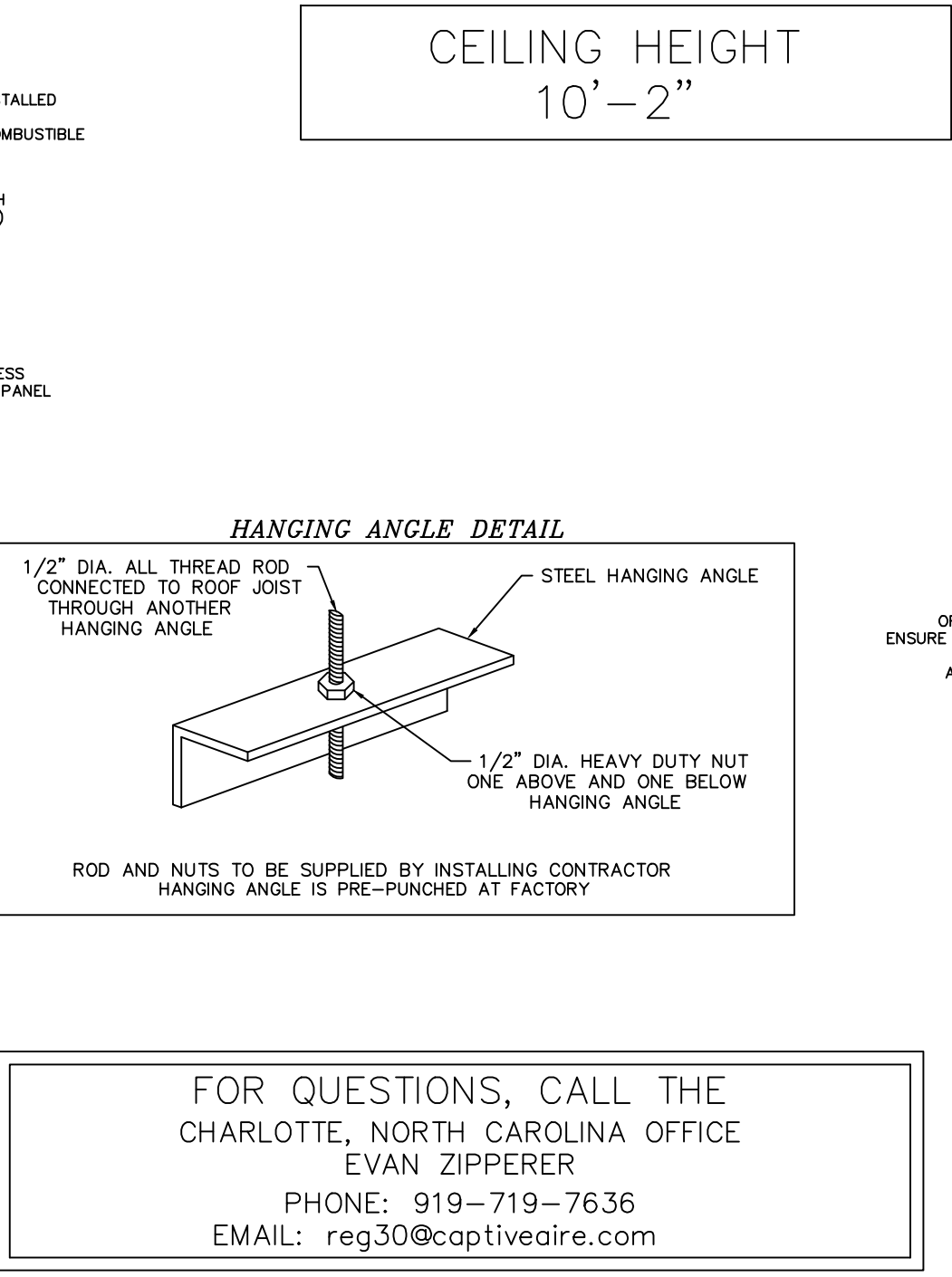
PLAN VIEW - Hood #3 (RIGHT)
11' 7.00" LONG 5424ND-2-PSP-F



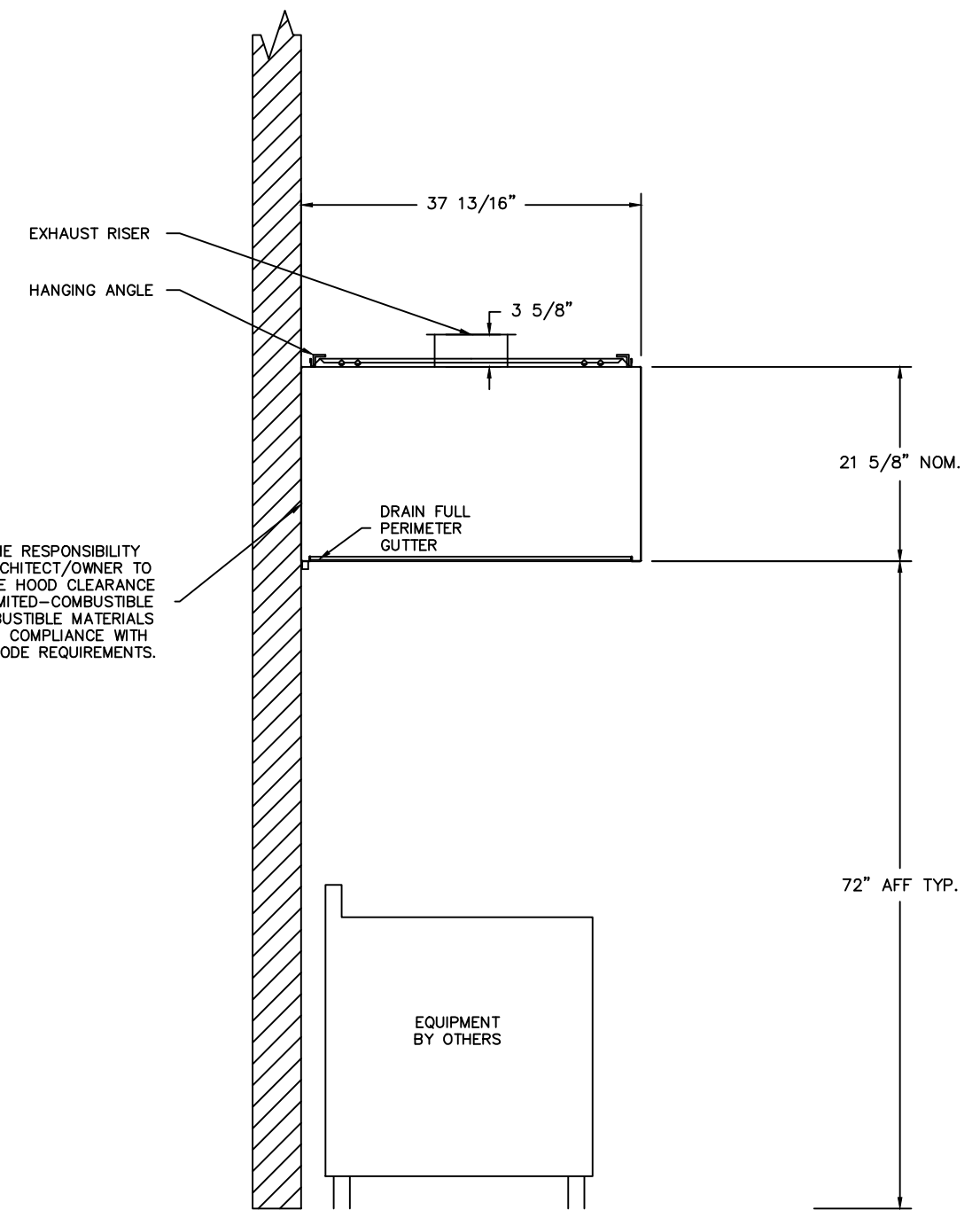
TYPICAL ANSUL R102 SYSTEM LAYOUT WITH REMOTE MOUNTED AUTOMAN



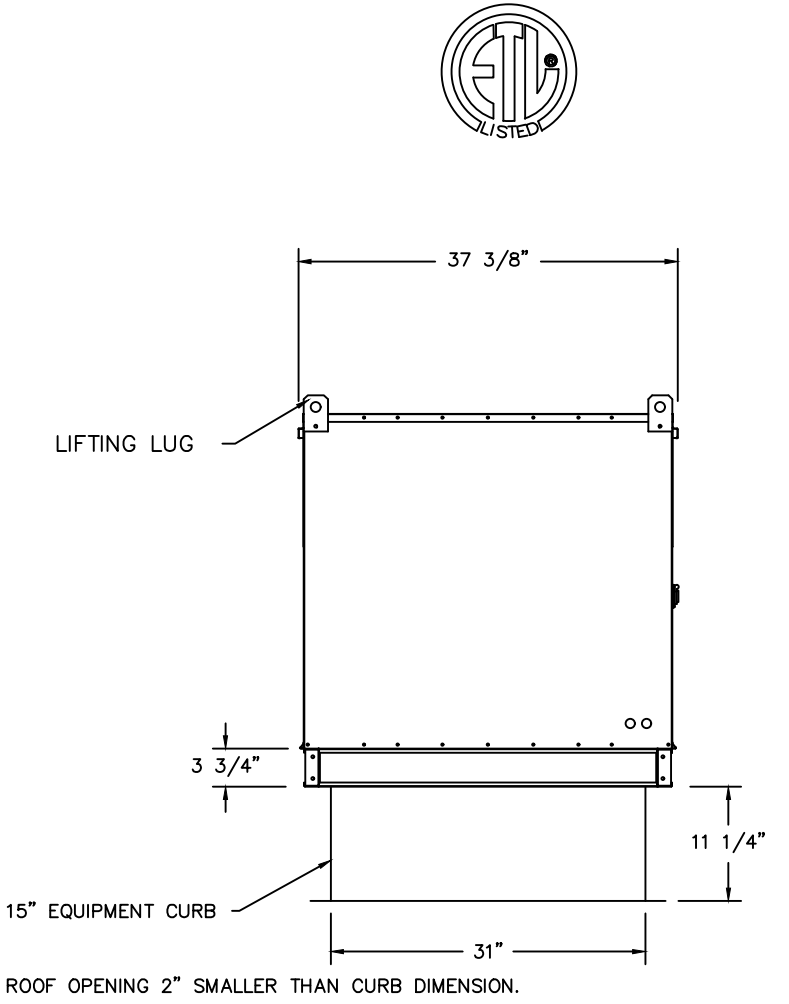
SECTION VIEW - MODEL 5424ND-2-PSP-F
HOOD - #1, #2, #3



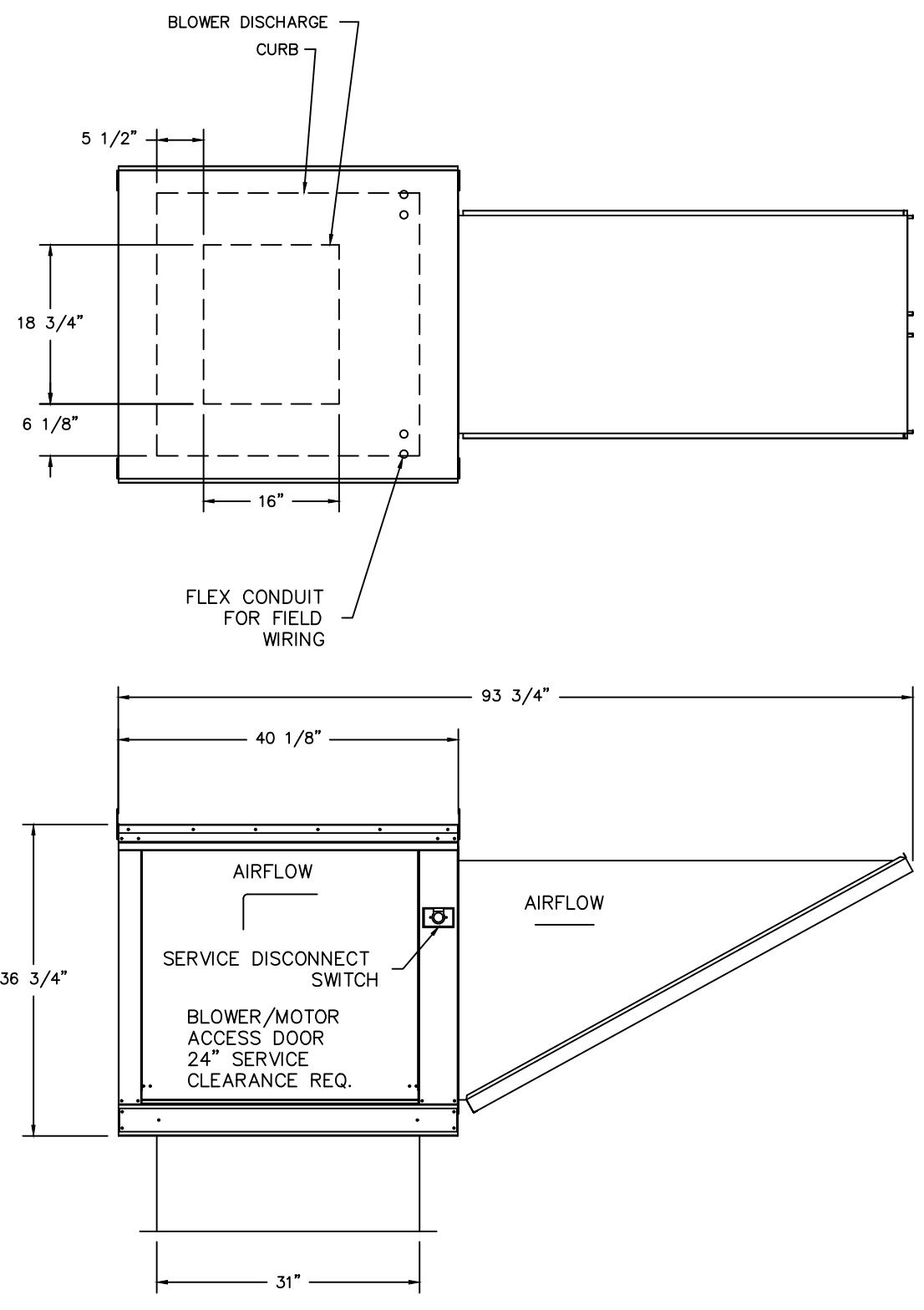
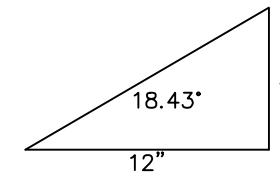
FOR QUESTIONS, CALL THE
CHARLOTTE, NORTH CAROLINA OFFICE
EVAN ZIPPERER
PHONE: 919-719-7636
EMAIL: reg30@captiveaire.com



SECTION VIEW - MODEL 4224VHB-G
HOOD - #4 (DISH)

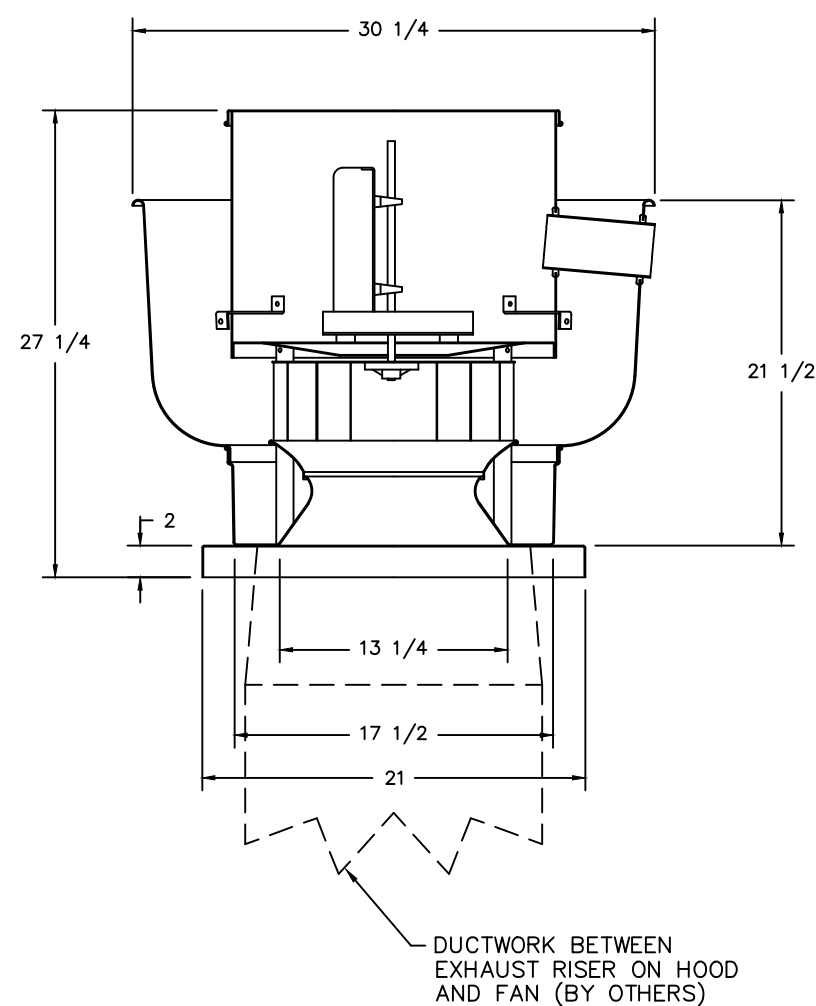


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.
EXAMPLE: 4/12 PITCH = 18.43° SLOPE



SF-1 A2-G15 - SUPPLY FAN

- 1. UNTEMPERED SUPPLY UNIT WITH 16" BLOWER IN SIZE #2 HOUSING
- 2. INTAKE HOOD WITH EZ FILTERS
- 3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT



FEATURES:

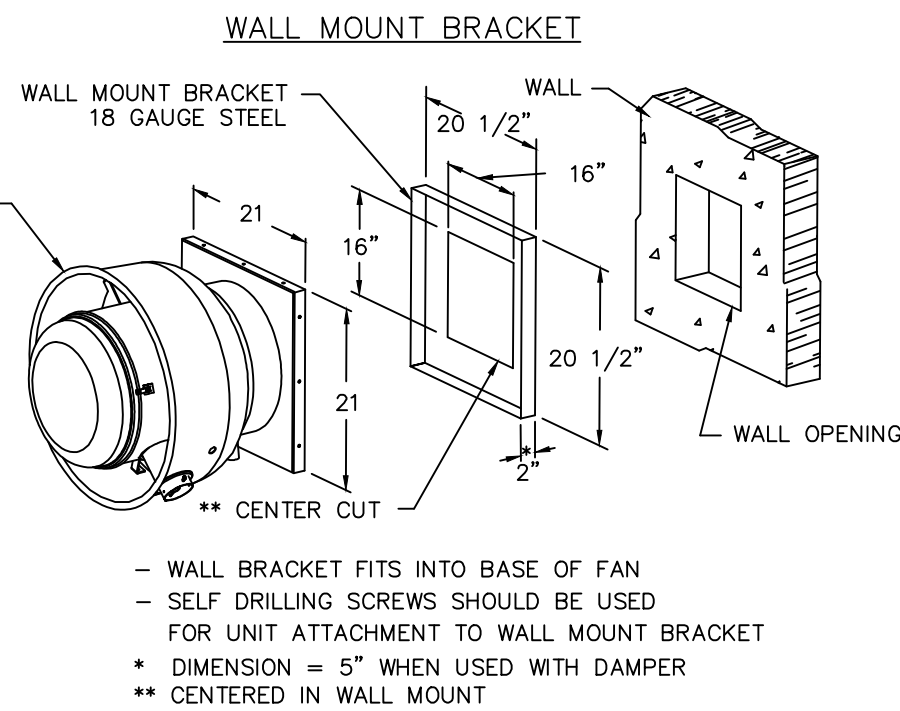
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

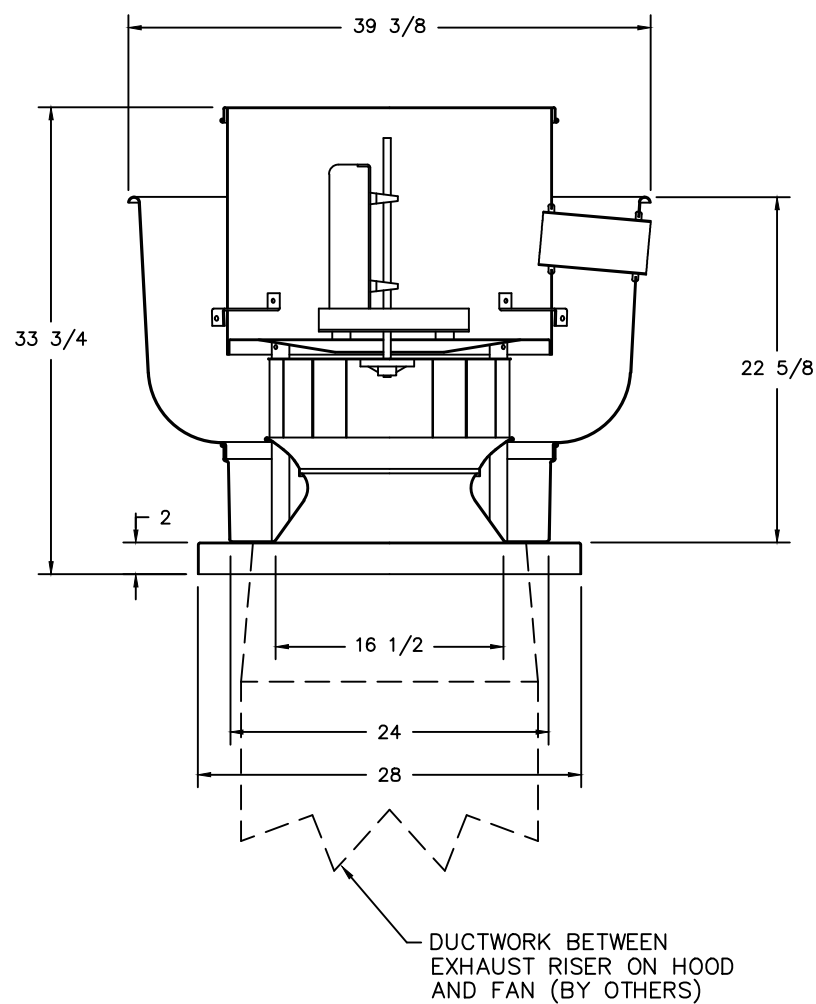
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX
WALLMOUNT 20.5" SQ. X 2"



EF-1 NCA10FA – EXHAUST FAN



FEATURES:

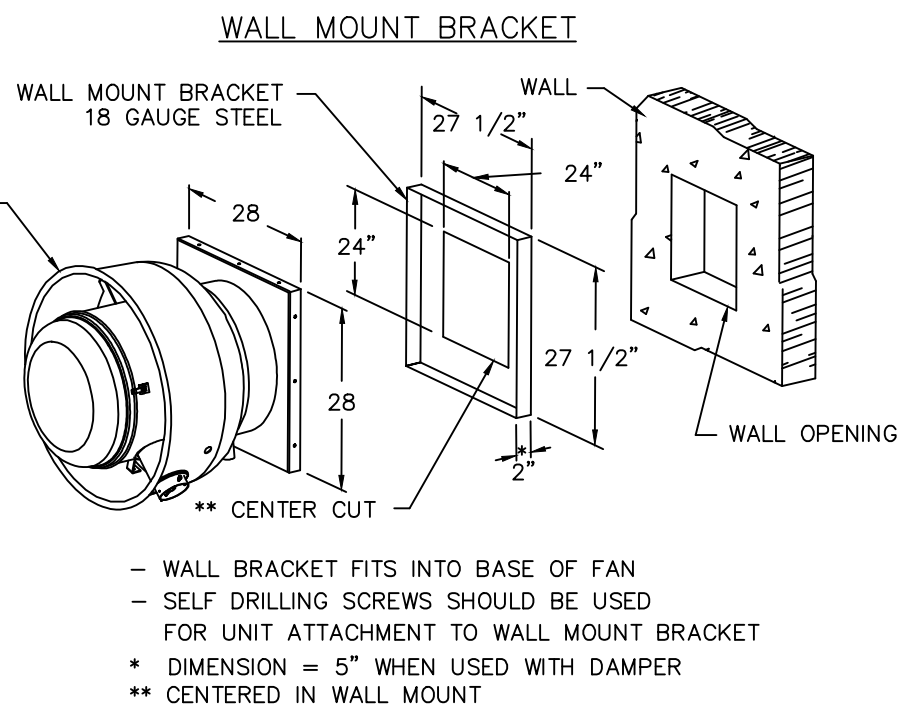
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

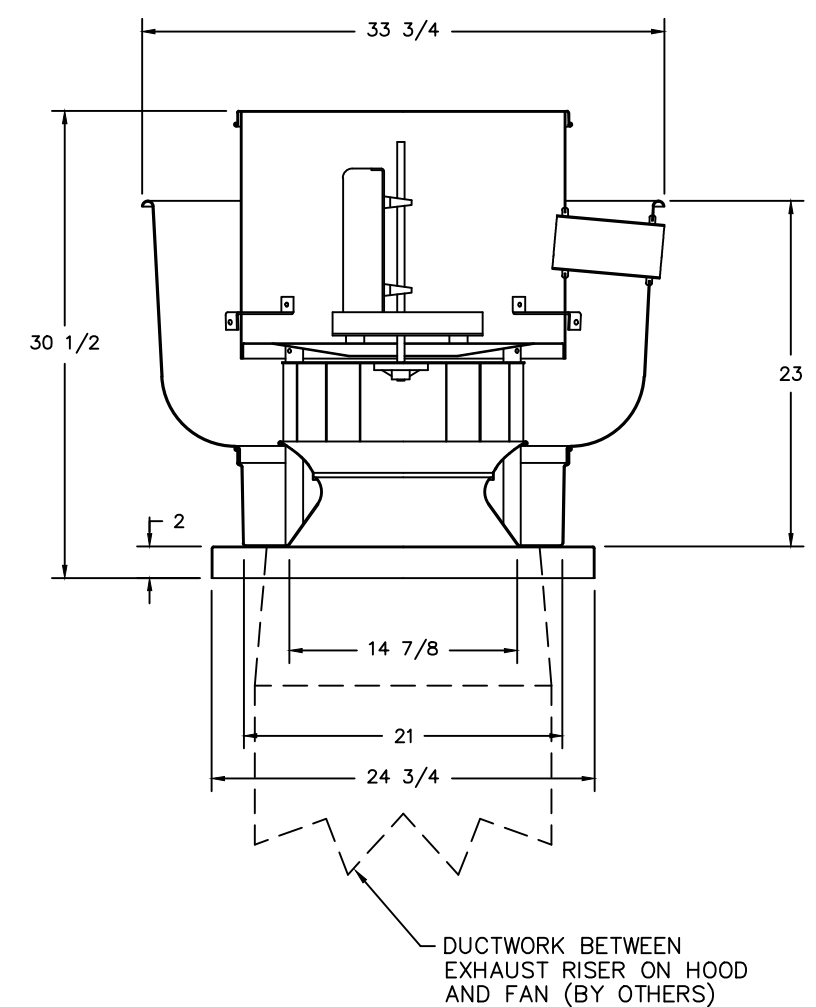
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX
WALLMOUNT 27.5 SQ. X 2"



EF-2 NCA16FA – EXHAUST FAN



FEATURES:

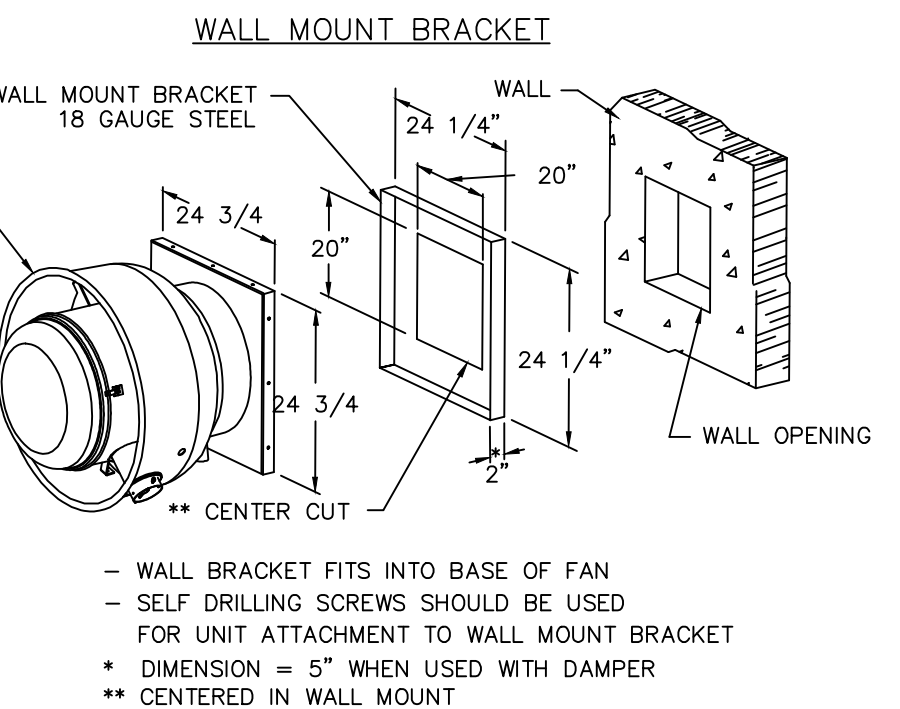
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

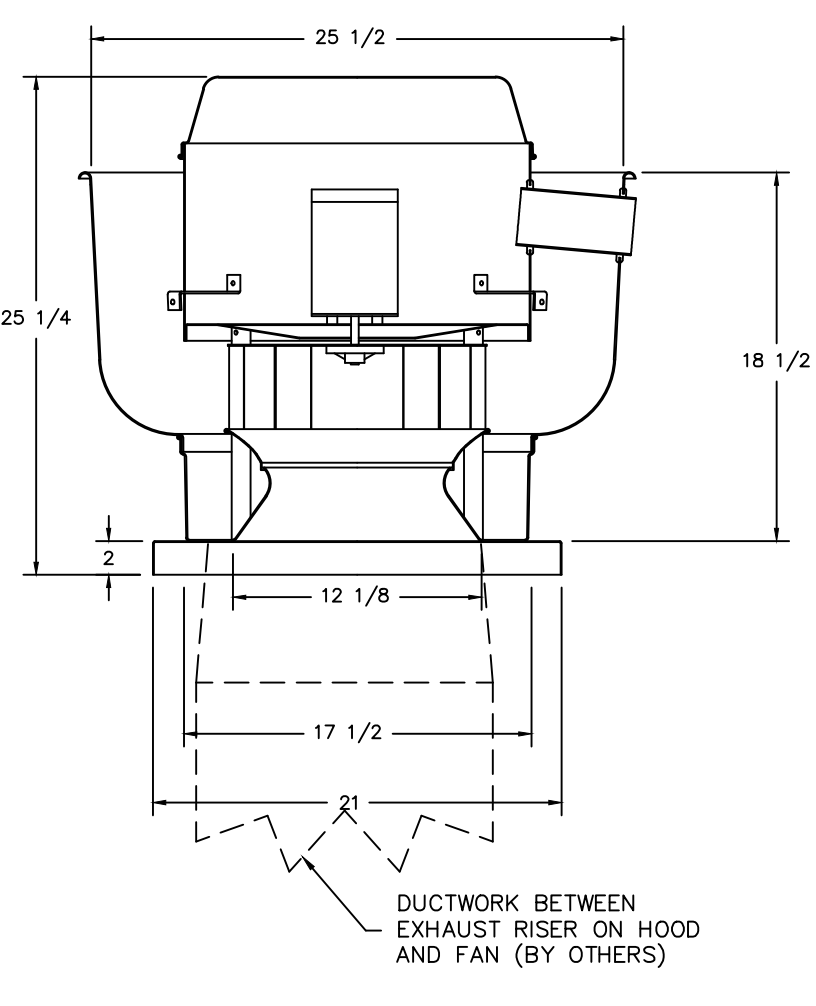
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX
WALLMOUNT 24.25" SQ. X 2"



EF-3 NCA14FA – EXHAUST FAN



FEATURES:

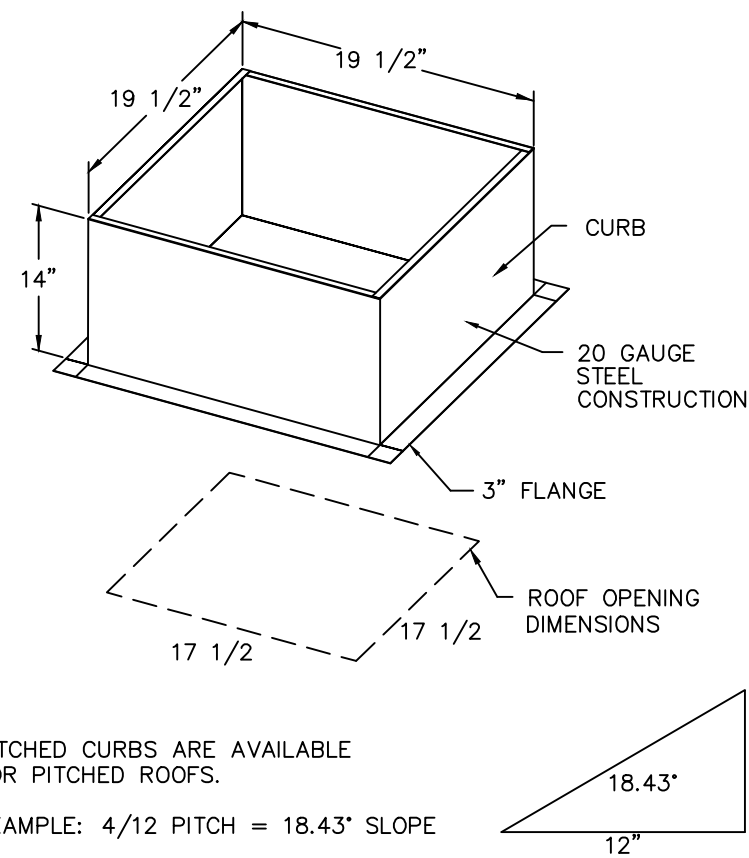
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

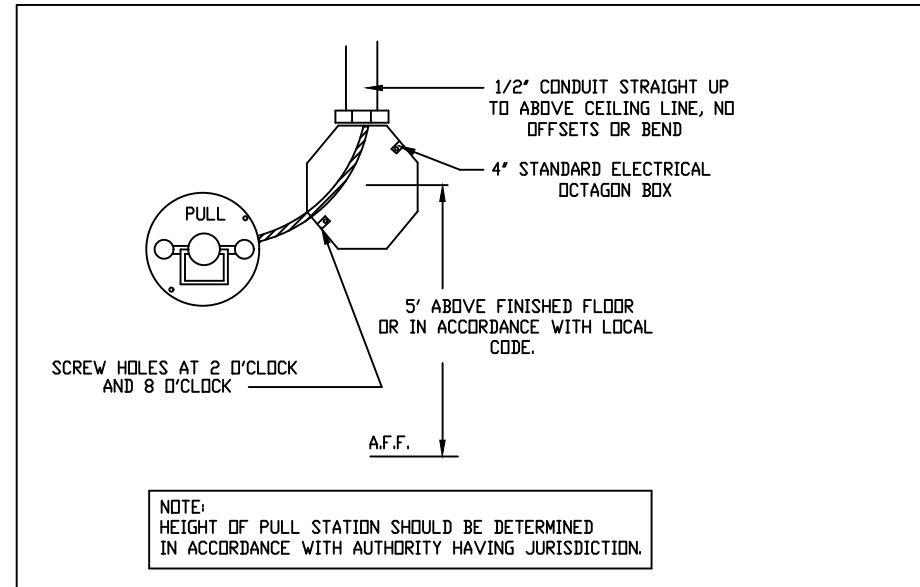
OPTIONS

GREASE BOX



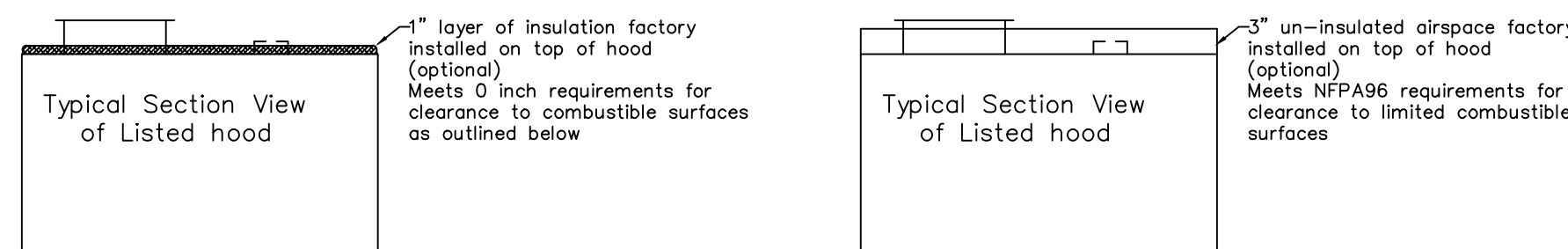
NOTE:
AS PER NFPA 17A, PULL STATION SHALL BE NO LESS THAN 10' FROM HOOD AND NOT FARTHER THAN 20' FROM HOOD AND MUST BE LOCATED IN PATH OF EGRESS.

ANSUL PULL STATION DETAIL

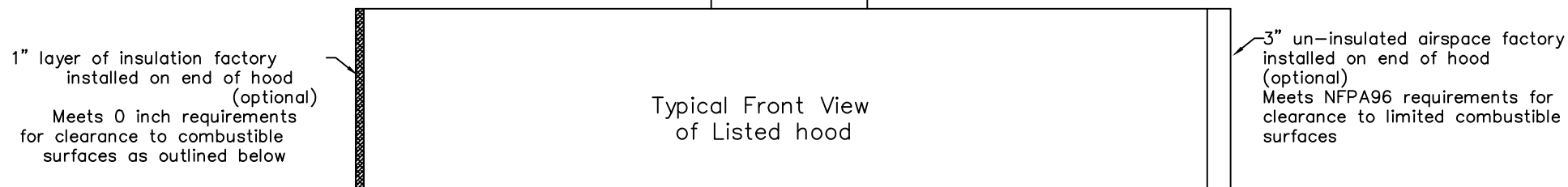


EXPOSED REMOTE FIRE PROTECTION PULL STATION DETAIL

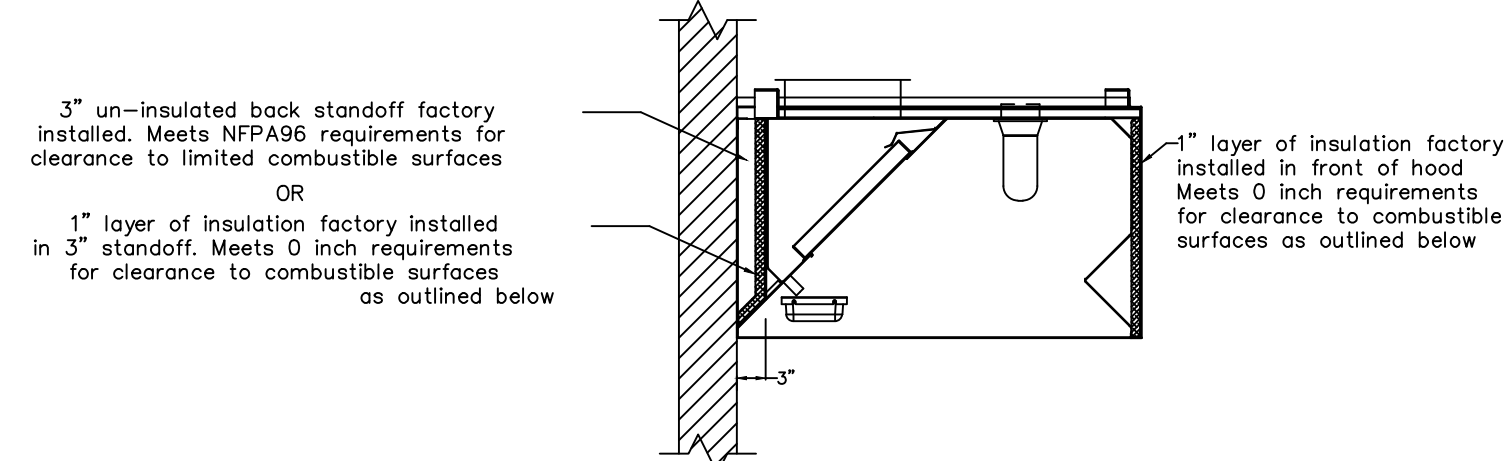
TOP CLEARANCE REDUCTION OPTIONS



END CLEARANCE REDUCTION OPTIONS



BACK & FRONT CLEARANCE REDUCTION OPTIONS



Clearance Reduction Methods:

Clearance reduction methods have been evaluated and tested and are certified by ETL. The method of test was derived from UL 710 with temperature criteria taken from appropriate standards.

The hood may be installed with a 0 inch clearance to combustible materials per ETL if constructed in one of the following methods:

- 1 inch thick min. layer of insulation of type Owens Corning Type 475 or Johns Manville Type 475 or listed kitchen exhaust duct insulation.
- 1 inch thick min. insulated backplash, Insulation of type listed above.
- Back Return (BR) supply plenum with 1 inch thick min. insulation of type listed above.

To comply with the ETL certification, the cooking appliance must be located:

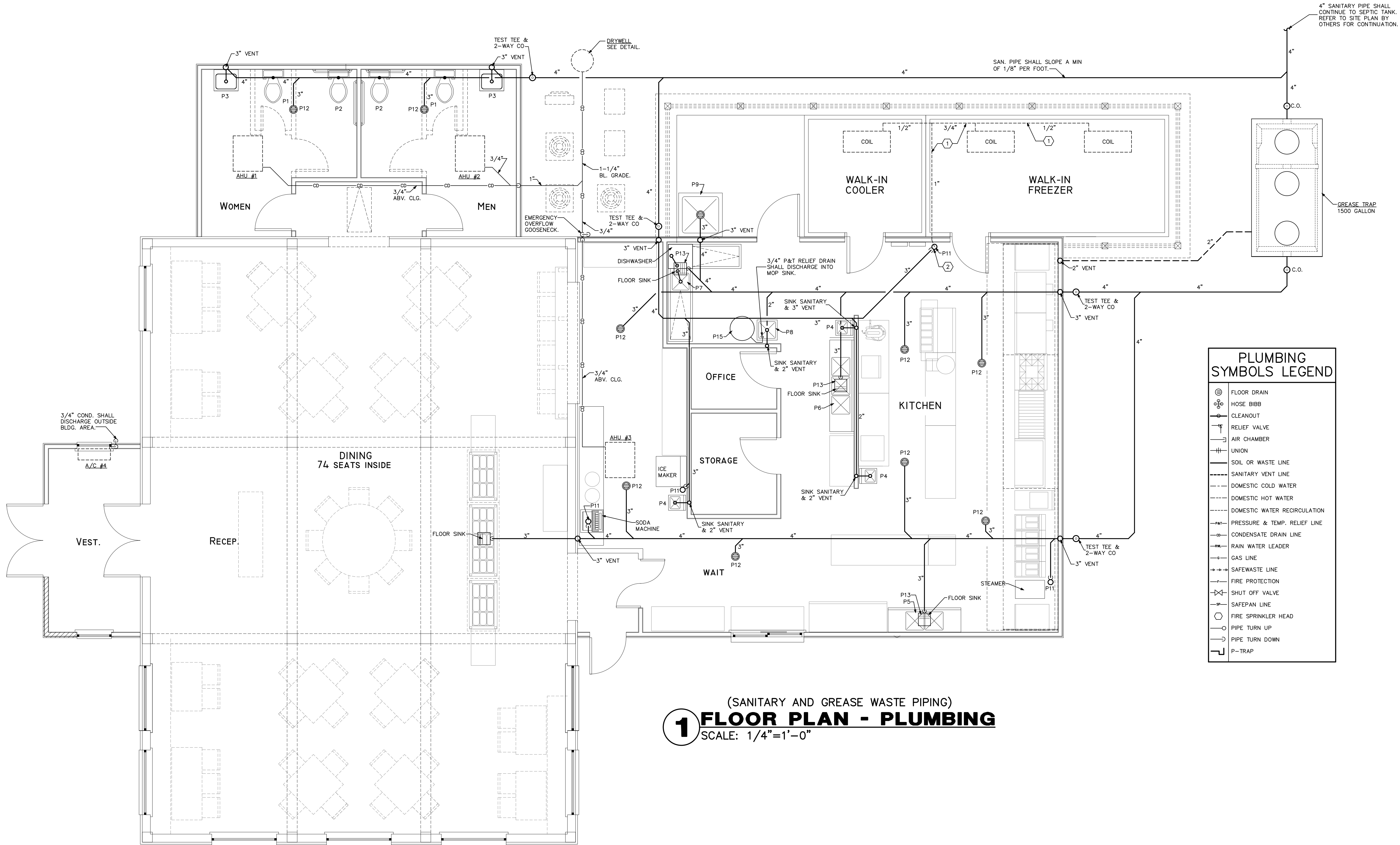
- At least 6 inches from the rear wall.
- At least 24 inches below the bottom edge of the hood.
- Cooking surface must not exceed temperatures above 700°F.

The hood may be installed with a 3 inch clearance to limited combustible materials per NFPA96 if constructed in one of the following methods:

- 3 inch factory installed rear un-insulated standoff.
- 3 inch factory installed top wrapper or enclosure panel system.
- 3 inch factory installed end standoff

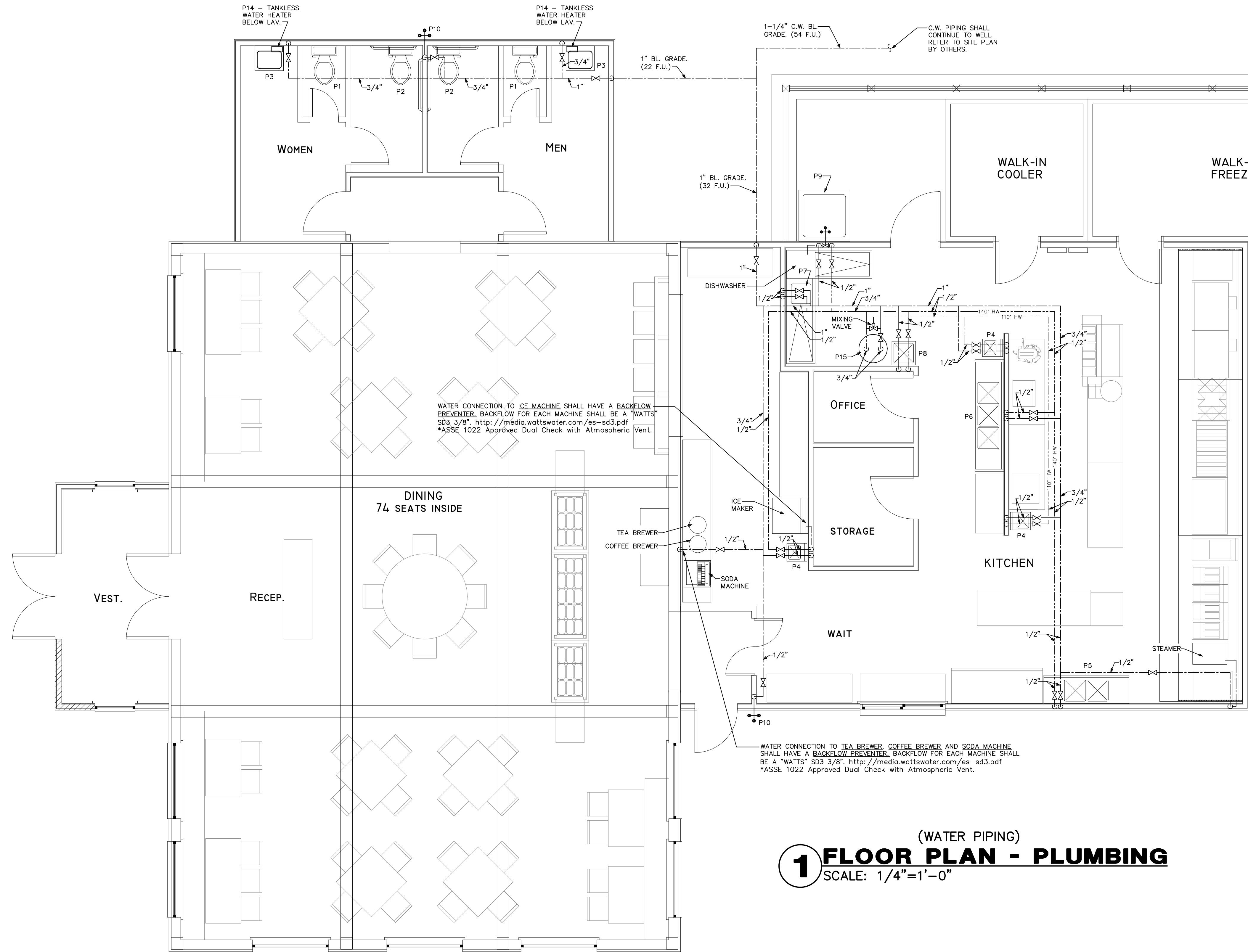
PLUMBING ABBREVIATION LEGEND					
DN.	DOWN	C.C.	CENTER TO CENTER	F.U.	FIXTURE UNITS
EXT.	EXTERIOR	N.T.S.	NOT TO SCALE	H.B.	HOSE BIBBS
F.D.	FLOOR DRAIN	MFR.	MANUFACTURER	C.O.	CLEANOUT
F.F.	FINISH FLOOR	S.O.V.	SHUT OFF VALVE	E.W.H.	ELECTRIC WATER HEATER
A.F.F.	ABOVE FINISH FLOOR	W.C.	WATER CLOSET	JAN/SK.	JANITOR SINK
V.T.R.	VENT THRU ROOF	LAV.	LAVORATORY	P & T	PRESSURE & TEMPERATURE
TYP.	TYPICAL	SK.	SINK	RWL.	RAIN WATER LEADER
R.D.	ROOF DRAIN	D.W.	DISH WASHER		
REV.	REVISION	E.D.F.	ELECTRIC DRINKING FOUNTAIN		
O.C.	ON CENTER	UR.	URINAL		

SPECIFIC PLUMBING NOTES	
1	COPPER CONDENSATE LINE (WRAP W/ HEAT TAPE & INSULATION) TO FLOOR DRAIN VIA A MIN. 2" AIR GAP CONNECTION.
2	1" COPPER CONDENSATE LINE TO FLOOR DRAIN. CONNECT TO FLOOR DRAIN VIA A MIN. 2" AIR GAP CONNECTION.



(SANITARY AND GREASE WASTE PIPING)
1 FLOOR PLAN - PLUMBING
SCALE: 1/4"=1'-0"

PLUMBING SYMBOLS LEGEND	
	FLOOR DRAIN
	HOSE BIBB
	CLEANOUT
	RELIEF VALVE
	AIR CHAMBER
	UNION
	SOIL OR WASTE LINE
	SANITARY VENT LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC WATER RECIRCULATION
	PRESSURE & TEMP. RELIEF LINE
	CONDENSATE DRAIN LINE
	RAIN WATER LEADER
	GAS LINE
	SAFEWASTE LINE
	FIRE PROTECTION
	SHUT OFF VALVE
	SAFEPAN LINE
	FIRE SPRINKLER HEAD
	PIPE TURN UP
	PIPE TURN DOWN
	P-TRAP



(WATER PIPING)
1 FLOOR PLAN - PLUMBING
SCALE: 1/4"=1'-0"

- GENERAL PLUMBING NOTES
- 1.) DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION. CONTRACTOR IS RESPONSIBLE TO INSTALL ALL FIXTURES AND EQUIPMENT IN STRICT COMPLIANCE WITH THE MANUFACTURES INSTALLATION INSTRUCTIONS, THIS REQUIREMENT IS TO SUPERSEDE ANY DETAILS OR INFORMATION CONTAINED ON THESE DRAWINGS.

2.) ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.

3.) THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.

4.) ALL MATERIAL SHALL BE NEW.

5.) ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.

6.) ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

7.) THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.

8.) ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.

9.) THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ONE YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.

10.) VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

11.) ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.

12.) ALL BELOW FLOOR SLAB WATER PIPING SHALL BE FLEXIBLE "TEMPRITE PEX (CROSS-LINKED POLYETHYLENE)" INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS FOUND HERE: WWW.LUBRIZOL.COM. ALL ABOVE SLAB WATER PIPING SHALL BE "FLOWGUARD GOLD CPVC" INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS FOUND HERE: WWW.FLOWGUARDGOLD.COM. ALL WATER PIPING AS SPECIFIED OR APPROVED EQUAL. ALL WATER PIPING LARGER THAN 2" SHALL BE TYPE "L" COPPER AND TYPE "K" COPPER FOR 2 1/2" AND LARGER.

13.) SOIL, WASTES AND VENT PIPING SHALL BE PVC #40 DWV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC, IF APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION, OTHERWISE CAST IRON. PVC SHALL NOT BE INSTALLED IN A/C RETURN AIR PLENUM OR PENETRATE FIRE RATED WALLS OR FLOORS.

14.) AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC #40 OR COPPER DRAIN WASTE AND BENT PIPE AND FITTINGS. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERIOR PIPING. INSTALL ALL CONDENSATE PIPING FOR AIR CONDITIONING UNITS AS REQUIRED PER LOCAL CODES.

15.) FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS AT EACH GROUP OF FIXTURES. INSTALLATION OF WATER HAMMER ARRESTORS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE AND INSTALL AN APPROVED WATER HAMMER ARRESTOR AT EACH FIXTURE OR DEVICE THAT HAS A SOLENOID WATER CONTROL VALVE.

16.) PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS, JOSAM 58890.

17.) INSULATE LINES AS FOLLOWS:

A.) 1" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON BOTH C.W. & H.W. WHEN PIPING IS LOCATED OUTSIDE OF THE INSULATED BUILDING ENVELOPE.

B.) 1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON HW PIPING & H.W. RECIRC. PIPING, ONLY WHEN THERE IS A H.W. RECIRCULATING PIPING SYSTEM.

C.) CONDENSATE PIPING: 1/2" THICK ARMAFLEX PREFORMED OR APPROVED EQUAL.



(1,500 GALLON)

4 GREASE TRAP DETAIL



PLUMBING FIXTURE CONNECTION SIZES				
FIXTURE	C.W. CONN. SIZE	H.W. CONNECTION SIZE	SANITARY BRANCH SIZE	F.U. LOAD VALUES
WATER CLOSET (P1,P2)	1/2"	—	3"	5.0
LAVATORY (P3)	1/2"	1/2"	1-1/4"	2.0
SINK (P4,5,6,7)	1/2"	1/2"	1-1/2"	4.0
UTILITY SINK (P8)	1/2"	1/2"	2"	4.0
CAN WASH (P9)	1/2"	1/2"	3"	4.0

PLUMBING FIXTURE SCHEDULE

P-1 (FLOOR MOUNTED FLUSH TANK WATER CLOSET)
SHALL BE AN AMERICAN STANDARD MODEL CADET MODEL 2333.100 ELONGATED 1.6 GPF, VITREOUS CHINA, PRESSURE-ASSISTED SIPHON ACTION BOWL, CLOSE-COUPLED TANK, FLOOR MOUNTED, FLOOR OUTLET, SPEED CONNECT TANK/BOWL COUPLING SYSTEM, WITH AMERICAN STANDARD OPEN FRONT SEAT WITH COVER MODEL 5325.024.
* http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_722.pdf

P-2 (HANDICAPPED FLOOR MOUNTED FLUSH TANK WATER CLOSET)
SHALL BE AN AMERICAN STANDARD MODEL CADET RIGHT HEIGHT 16-1/2" 2377.100 ELONGATED
1.6 GPF, VITREOUS CHINA, PRESSURE-ASSISTED SIPHON ACTION BOWL, CLOSE-COUPLED TANK,
FLOOR MOUNTED, FLOOR OUTLET, SPEED CONNECT TANK/BOWL COUPLING SYSTEM, WITH
AMERICAN STANDARD OPEN FRONT SEAT WITH COVER MODEL 5325.024.
* http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_1006.pdf

P-3 (HANDICAPPED WALL HUNG LAVATORY W/METERING FAUCET)
 SHALL BE AN AMERICAN STANDARD REGALYN LAVATORY MODEL 4869.001 (CENTER HOLE ONLY), VITREOUS CHINA, WALL MOUNT WITH CONCEALED ARMOR SUPPORT. FAUCET SHALL BE A "CHICAGO" MODEL 3300-ABCP MOUNTING FAUCET WITH 4" CENTERS AND BUILT-IN THERMOSTATIC MIXING VALVE TO DELIVER TEMPERED WATER AT A TEMPERATURE NOT LESS THAN 110°F (40°C) AND NOT MORE THAN 120°F (49°C) WITH AN ADJUSTABLE 1/2" SECOND OPERATING CYCLE PRODUCING UNDER 25 GALLONS PER CYCLE. WATER PIPING AND P-TRAP SHALL BE COVERED WITH AN UNDER-SINK PROTECTIVE PIPE COVER KIT BY TRUEBRO (HTTP://WWW.TRUEBRO.COM) OR APPROVED ALTERNATE.

* http://www.americanstandard-us.com/assets/documents/omstd/Spec/SpecSheet_1476.pdf
 * <http://www.chicagofaucets.com/catalog/catalog.php?partNumber=3300-ABCP>

P-4 (STAINLESS STEEL HAND SINK)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.

P-5 (STAINLESS STEEL 2 COMPARTMENT PREP SINK W.FAUCET)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.

P-6 (STAINLESS STEEL 3 COMPARTMENT SINK W/FAUCET)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.

P-7 (STAINLESS STEEL PRE-RINSE SINK W/SPRAY FAUCE)
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.

P-8 (WALL MOUNT JANITORS SINK)
SHALL BE AN "AMERICAN STANDARD" LAKEWELL SERVICE SINK MODEL 7692.008, ENAMELED CAST IRON WITH DRILLED BACK 2 HOLES ON 8" CENTERS AND RIM GRAD. FAUCET SHALL BE AN "AMERICAN STANDARD" MODEL 8351.076 EXPOSED YOKE WALL-MOUNT UTILITY FAUCET ASSEMBLY, BRASS/CHROME WITH VACUUM BREAKER, INTEGRAL SHUTTER, OFFSET SPARKS WITH INTEGRAL CUP AND VALVE. 1/2" NPT FEMALE INLETS, SLEEVY HANDLES, BUNKER HOOK, 3/4" THREADED HOSE END, 1/2" NPT FEMALE INLETS.

* http://www.americanstandard-us.com/assets/documents/cmstd/spec/SpecSheet_1475.pdf
* http://www.americanstandard-us.com/assets/documents/cmstd/spec/SpecSheet_4430.pdf

P-9.6 (FLOOR MOUNTED EXTERIOR CANWASH/MOP RECEPTOR W/TRAP SEAL)
SHALL BE A FLORESTONE 700 36X36X6" MOLED MOP BASIN WITH 3" OUTLET, "WOODFORD" MODEL 22 EXPOSED NON-FREEZE ANTI-SIPHON DUAL HOT/COLD WALL FAUCET COMPLETE WITH AUTOMATIC DRAINING HOSE CONNECTION BACKFLOW PREVENTER, AND 3/4" MALE HOSE CONNECTION.

- * http://www.florestone.com/mop_sinks/model_50-70.html
- * http://www.woodfordmfg.com/woodford/Wall_Faucet_Pages/Model-22.html

CAN WASH TRAP SEAL

SHALL BE A "SURE SEAL" MODEL SS3000 PREASSEMBLED INLINE FLOOR DRAIN TRAP SEALER WITH 1/2" NPT INLET AND 1/2" NPT OUTLET, 1/2" NPT PLASTIC HOSE, PROPRIETARY NEOPRENE RUBBER DIAPHRAGM, WITH 2" SOFT RUBBER SEALING GASKETS, FLOOR FINISH ASSE-1072 AT

- * http://www.thesureseal.com/Products/49321/026/pitch_sheet_ss3000.pdf

P-10 (HOSE BIBB - NON-FREEZE HYDRANT WITH LOCK COVER)
SHALL BE A "ZURN" Z1300 ENCASED ECOTOLRIT, ANTI-SIPHON, AUTOMATIC DRAINING, NON-FREEZE WALL HYDRANT COMPLETE WITH INTEGRAL BACKFLOW PREVENTOR, COPPER CASING, ALL BRONZE INTERIOR PARTS, NON-COMBINATION 3/4 MALE PIPE THREAD INLET CONNECTION STANDARD. REGULARLY FURNISHED WITH 3/4 HOSE CONNECTION, CHROME-PLATED ROUGH CAST BRONZE BOX AND HINGED COVER. INCLUDES OPERATING KEY
* http://content.zurn.com/web_documents/pdfs/specsheets/58867.pdf

P-11 (3" HUB DRAIN - INDIRECT WASTE FUNNEL)
SHALL BE A "ZURN" Z326, 3" PIPE CONNECTION, DURA-COATED CAST IRON BODY AND BOTTOM OUTLET. CONTRACTOR SHALL VERIFY FINAL HEIGHT OF FUNNEL WITH EQUIPMENT THAT IS UTILIZING FUNNEL DRAIN AND VERIFY PROPER CLEARANCE PRIOR TO CONSTRUCTION. COORDINATE WITH EQUIPMENT MANUFACTURER.
* http://content.zurn.com/web_documents/pdfs/specsheets/z326.pdf

P-12 (FLOOR DRAIN WITH TRAP SEAL)
SHALL BE A JOSAM 30000-WT-A-49 SERIES COATED CAST IRON FLOOR DRAIN. TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEILCO INVERTIBLE NON - PUNCTURING FLASHING COIL, WEEPHOLE, BOTTOM OUTLET, INSIDE CAULK CONNECTION AND ADJUSTABLE SATIN NIKALOY ROUND SUPER-FLO STRAINER.
http://www.josam.com/images/josamnik/sbmt/s06_30000-WT-A.pdf

FLOOR DRAIN TRAP SEAL
SHALL BE A "SURE SEAL" MODEL SS3000 PREASSEMBLED INLINE FLOOR DRAIN TRAP SEALER. SHALL BE: COMMERCIAL GRADE ABS PLASTIC HOUSING AND KEEPER PIN, PROPRIETARY NEOPRENE RUBBER DIAPHRAGM, WITH 2 SOFT RUBBER SEALING CAULKING, FLOOR RATING ASSE-1072 AL
* http://www.thesuresseal.com/Portals/4/9321/download/pitch_sheet_ss3000.pdf

P-13 (FLOOR SINK W/SEDIMENT BUCKET)
SHALL BE A JOSAM 49340A-3-31 SERIES SQUARE CAST IRON 8" DEEP SUPER-FLO-SEPTON FLOOR SINK WITH PORC-COATED INTERIOR, DOUBLE DRAINAGE FLANGE WITH WEEPHOLES, BOTTOM OUTLET, ALUMINUM INTERNAL DOME STRAINER, AND CAST IRON, NON-TRAFFIC, PORC-COATED, ANTI-TILTING GRATE. WITH HALF GRATE AND ALUMINUM SEDIMENT BUCKET.
* <http://www.josam.com/catalog/JOS/pl=FS/49340A>

P-14 (INSTA-HOT WATER HEATER BELOW LAVATORY)
WATER HEATER SHALL BE A "EEMAX" MODEL EX-35, 2.6 KW TANKLESS WATER HEATER @
208V/1Ø, 13 AMPS.
* <http://www.eemaxinc.com/assets/files/floco.pdf>

P-15 (GAS WATER HEATER – DIRECT VENT – SEALED COMBUSTION)
SHALL BE A STATE "ULTRA FLOE" MODEL SUP-100-199-NEA GAS FIRED COMMERCIAL WATER HEATER, 199,900 BTU INPUT TO PRODUCE 288 GALLONS PER HOUR OF HOT WATER AT 80 DEGREE RISE, INSULATED GLASSLINED 100 GALLON STORAGE TANK, WATER HEATER SHALL MEET OR EXCEED ALL APPLICABLE SECTIONS OF ASHRAE SECTIONS 90-BOA AND NAECA REQUIREMENTS FOR ENERGY CONSERVATION.
* <http://www.statewaterheaters.com/it/spec/comm-gas/SCGS00207.pdf>

NOTES:

- 1.) ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
- 2.) PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.

GENERAL NOTES:

1. Concrete: 28 Day Compressive Strength $f'_c = 4,500$ psi
2. Reinforcement: ASTM A-615, Grade 60
3. Loads: H-20 Truck Wheel With 30% Impact Per AASHTO
4. Butyl Rubber Joint Sealant SS-S-00210
5. GRAY WATER ONLY Black Water Shall Be Carried By Separate Side Sewer.
6. Contractor To:
 - Supply and Install All Piping and Sampling Tees
 - Grout In All Pipes and Weirs
 - Fill w/ Clean Water Prior to "Start-Up" Of System
 - Verify Size and Location Of All Openings



Oldcastle® Precast, Inc.
www.oldcastle-precast.com

5105-1500-GA
GREASE INTERCEPTOR
1,500 GALLON CAPACITY

ELECTRICAL SYMBOLS LEGEND			
		NOTE - NOT ALL SYMBOLS MAY BE USED ON PROJECT	
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	DUPLEX RECEPTACLE, MTD. +18" AFF		TRANSFORMER - SIZE AS NOTED
	240 VOLT RECEPTACLE (HT. AS REQ.)		PANEL - SIZE AS NOTED
	QUADRUPLUX RECEPTACLE, MTD. +18"		MOMENTARY CONTACT PUSH BUTTON
	COUNTERTOP HT. RECEPTACLE +42"		F-FAN; M-MOTOR; P-PUMP
	SINGLE POLE SWITCH, MTD +47"		SPECIAL OUTLET - AS REQUIRED
	THREE-WAY SWITCH, MTD +47"		CKT. HOMERUN (B INDICATES PANEL) "2" DESIGNATES CIRCUIT NUMBER
	MANUAL STARTER SWITCH		EXIT SIGN; ONE SIDED, OR TWO SIDED
	DIMMER SWITCH, MTD +47"		EMERGENCY LIGHTING
	SWITCH W/ ILLUM WHEN ON MTD +47"		RECESSED MOUNTED LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	THREE-WAY SWITCH W/ OCCU SENSOR MTD. +47"		OVERHEAD OCCUPANCY SENSOR
	SWITCH W/ OCCU SENSOR		HIGHBAY HID LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	JUNCTION BOX, FLUSH IF POSSIBLE		FLUORESCENT LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	TELEPHONE / DATA OUTLET +18"		FLUORESCENT LIGHTING NIGHT LIGHT B DESIGNATES FIXTURE TYPE
	DED. COMPUTER TERM. OUTLET +18"		FLUORESCENT STRIP LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	DISCONNECT SWITCH W/ STARTER		ISOLATED GROUND
	DISCONNECT SWITCH		WEATHER-PROOF
	FLR. MTD. FLUSH DUPLEX RECEPTACLE		BELOW COUNTER
	FLR. MTD. FLUSH QUAD. RECEPTACLE		TIME CLOCK - 24 HOUR
	FLR. MTD. FLUSH PHONE/DATA OUTLET		GROUND FAULT INTERRUPTER
	FLR. MTD. FLUSH COMPUTER OUTLET		ABOVE FINISHED FLOOR
	AREA SMOKE DETECTOR		ELECTRIC WATER COOLER
	HEAT DETECTOR		ABOVE SHOW WINDOW
	DUCT SMOKE DETECTOR		BELOW SHOW WINDOW
	FIRE ALARM MAN. PULL STATION +47"		FIRE ALARM CONTROL PANEL
	HORN WITH STROBE LIGHT, MTD. +80" # RESIDE DEVICE IS CANDELLA RATING STROBE LIGHT ONLY, MTD. +80" # RESIDE DEVICE IS CANDELLA RATING		FIRE ALARM ANNUNCIATOR PANEL

LIGHTING FIXTURE SCHEDULE							
LABEL	TYPE OF FIXTURE	FINISH	LENS TYPE	VOLTAGE	LAMP	MANUFACTURER & MODEL NO.	REMARKS
A	RECESSED MTD 2X4 FLUORES.		PRISMATIC	120	(2) 32W T8	OWNER SELECT	PROVIDE CLEAR LEXAN LAMP SHIELDS ON ALL BULBS (FOOD SERVICE)
B	WALL MTD SHADE			120	42W MH	OWNER SELECT	
C	PENDANT SHADE			120	42W MH	OWNER SELECT	
D	CHANDELIER			120	75W	OWNER SELECT	
EM	EMERGENCY EGRESS	WHITE		120	INCLUDED	LITHONIA ELM2	W/ BATTERY BACKUP
EX	EXIT SIGN	WHITE	RED	120	INCLUDED	LITHONIA LE-SW2R-120/277-ELN	W/ BATTERY BACKUP
F	7"x4" SURFACE WRAP			120	32WT8	OWNER SELECT	
G	6" CFL			120	(2) 26W DTT	OWNER SELECT	
H	EXTERIOR WALL LIGHT	BRONZE	PRISMATIC	120	(2) 26W DTT	LITHONIA WST-2/260TT-FT-120-PE-2ELED	W/ PHOTOCELL CONTROL & LED EM LTC, BATTERY BACKUP

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE

PREScriptive

☒

PERFORMANCE

☐

ENERGY COST BUDGET

☐

PROVIDE A STANDARD RISER DIAGRAM WHICH INDICATES DESIGNATED POINTS FOR CHECK METERING. PROVIDE A STANDARD PANEL SCHEDULE DESCRIPTION WHICH IDENTIFIES DIFFERENT ENDUSE LOADS.

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE

SEE SCHEDULE ON DRAWINGS

NUMBER OF LAMPS IN FIXTURE

SEE SCHEDULE ON DRAWINGS

BALLAST TYPE USED IN FIXTURE

SEE SCHEDULE ON DRAWINGS

NUMBER OF BALLASTS IN FIXTURE

SEE SCHEDULE ON DRAWINGS

TOTAL WATTAGE PER FIXTURE

SEE SCHEDULE ON DRAWINGS

TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED

3620 VS 5320

TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED

N/A

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)

MOTOR HORSEPOWER

N/A

NUMBER OF PHASES

N/A

MINIMUM EFFICIENCY

N/A

MOTOR TYPE

N/A

NUMBER OF POLES

N/A

DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NATIONAL ENERGY CODE.

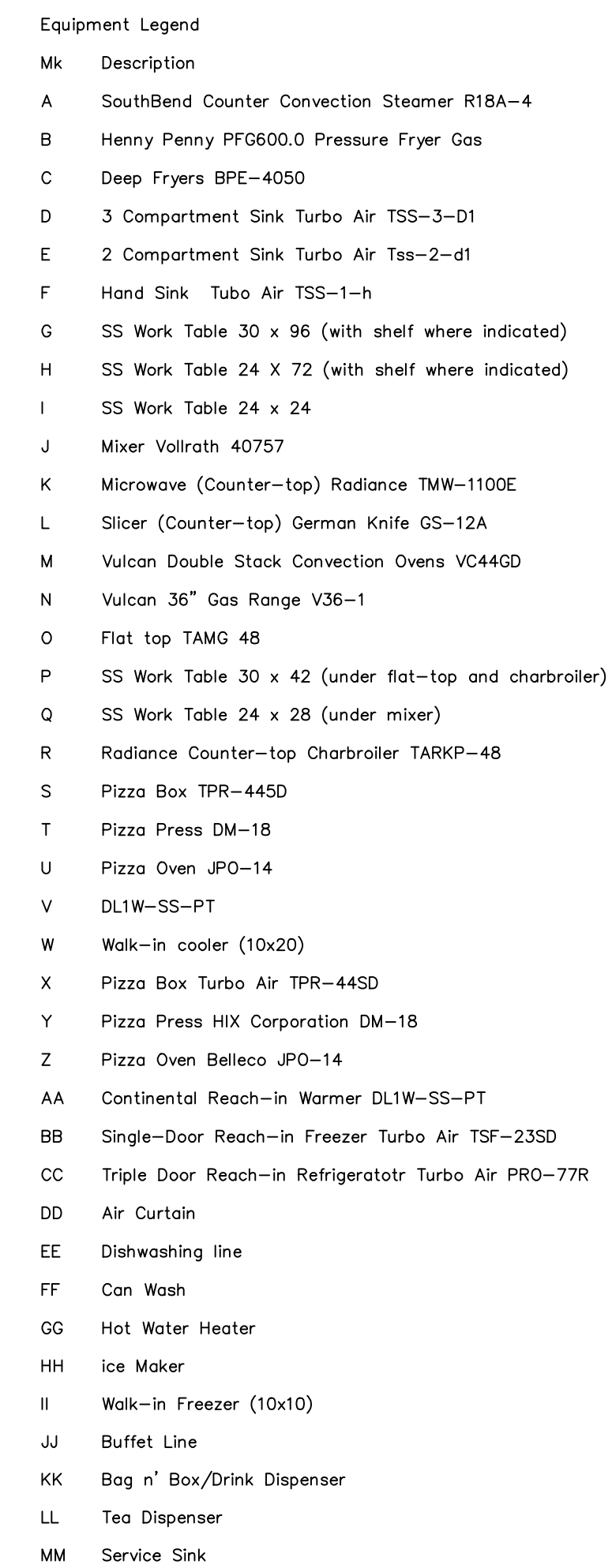
SIGNED: _____

NAME: _____

TITLE: _____

1 FLOOR PLAN - LIGHTING
SCALE: 1/4"=1'-0"

E1



E2

GENERAL: ALL WORK SHALL CONFORM TO THE 2008
APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE
(NEC) AND ALL LOCAL JURISDICTIONAL CODES.

1. GENERAL: ALL WORK SHALL CONFORM TO THE 2008 APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL JURISDICTIONAL CODES.

THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND ANY APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, THE CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM, AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL THE OWNER HAS DIRECTED THE CORRECTIVE ACTION TO BE TAKEN.

THE CONTRACTOR SHALL COORDINATE THE PROPOSED LOCATIONS OF ALL ELECTRICAL MATERIALS AND EQUIPMENT WITH THE REPRESENTATIVES OF THE OTHER TRADES INVOLVED BEFORE STARTING INSTALLATION OF THOSE ITEMS.

COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES, CONDUIT, AND SLEEVES TO BE SET IN CAST-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.

UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL SPECS. ARE NOT INTENDED TO BE PROPRIETARY, SUBSTITUTIONS WILL BE ACCEPTABLE FOR EQUAL RATED AND LISTED UNITS.

2. SCOPE: EXCEPT WHERE OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS BY "FUTURE", "BY OTHERS", OR BY A SIMILAR NOTATION, IT IS THE INTENT THAT THE CONTRACTOR FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS NECESSARY TO PROVIDE ALL SYSTEMS IN COMPLETE AND OPERATING CONDITION.

3. EXCAVATE AS NECESSARY FOR THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT. VERIFY THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES BEFORE EXCAVATING AND EXERCISE CARE TO AVOID DAMAGE TO SUCH ITEMS DURING EXCAVATION. BACKFILL WITH EARTH FREE OF LARGE CLODS, LARGE STONES AND FOREIGN DEBRIS, DEPOSITED IN 6" LAYERS AND COMPACTED TO A DENSITY OF NOT LESS THAN THAT OF THE SURROUNDING UNDISTURBED MATERIAL.

4. MATERIALS: THE MATERIALS AND EQUIPMENT FURNISHED SHALL BE AS INDICATED ON THE DRAWINGS; SUBSTITUTION SHALL NOT BE MADE EXCEPT WHERE EXPRESSLY APPROVED BY THE OWNER OR HIS REPRESENTATIVE PRIOR TO STARTING INSTALLATION OF THE ITEMS. THE ELECTRICAL MATERIALS AND EQUIPMENT FURNISHED SHALL BE LISTED OR LABELED BY UNDERWRITERS LABORATORIES OR OTHER RECOGNIZED TESTING ORGANIZATION, AND SHALL BE ACCEPTABLE TO THE LOCAL BUILDING AUTHORITY.

5. GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC.

6. SHARED NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED UNLESS INSTALLED IN ACCORDANCE WITH NEC-210.4

7. CONDUITS: PROVIDE CONDUITS WHERE CALLED FOR ON PANEL SCHEDULES: ELECTRICAL METALLIC TUBING (EMT) SHALL BE INSTALLED ONLY IN DRY LOCATIONS, IN CONCRETE ABOVE GRADE, AND WHERE NOT SUBJECT TO PHYSICAL DAMAGE.

CONDUITS INSTALLED UNDERGROUND SHALL BE POLYVINYLCHLORIDE (PVC) AND SHALL NOT BE SMALLER THAN 3/4" TRADE SIZE. WHERE PVC CONDUIT IS INSTALLED UNDERGROUND, ELBOWS TURNING UP AND CONDUIT EMERGING ABOVE GRADE SHALL BE RSC, THE TOPS OF CONDUITS SHALL NOT BE LESS THAN 18" BELOW FINISHED GRADE. PVC CONDUIT INSTALLED ABOVE GRADE OR BURY-OR-BUILD IN EARTH SHALL BE NEMA TC2 TYPE EPC-40-PVC (SCHEDULE 40) EXCEPT THAT WHERE UNDER AREAS SUBJECT TO HEAVY VEHICULAR TRAFFIC, IT SHALL BE NEMA TC2 TYPE EPC-80-PVC (SCHEDULE 80).

ALL ARMOR CLAD CABLE (AC CABLE) WIRING SHALL MEET OR EXCEED ALL NEC, OSHA AND HUD STANDARDS.

8. CONDUCTORS: CONDUCTORS SHALL BE AS SCHEDULED ON PANEL SCHEDULES. ALL POWER CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG (CU), OR #12 AWG (AL). CONTROL CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #18 AWG CU. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET WITHOUT SPLICES EXCEPT WITHIN WREWARE OR JUNCTION BOXES. MARK CONDUCTORS IN PANELS, PULL BOXES OR WREWARES AND TERMINAL STRIP TERMINALS FOR IDENTIFICATION OF CIRCUITS.

CONDUCTORS SHALL BE JOINED USING COMPRESSION SPLICES, EXCEPT THAT CONDUCTORS #10 AND SMALLER MAY BE JOINED USING WIRE NUT TYPE CONNECTORS. CONDUCTORS SHALL BE TERMINATED USING COMPRESSION OR PRESSURE TIE TERMINAL LUGS, OR IN PRESSURE TERMINALS. COMPRESSION SPLICES USED ON CONDUCTORS #10 AWG. AND SMALLER, SHALL BE THE SELF-INSULATED TYPE; OTHER SPLICES SHALL BE INSULATED USING 3M #33-4 OR #88 PLASTIC TAPE. SPLICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL TAPE AND ENCAPSULATED WITH SCOTCHCAST OR EQUAL POTTING COMPOUND.

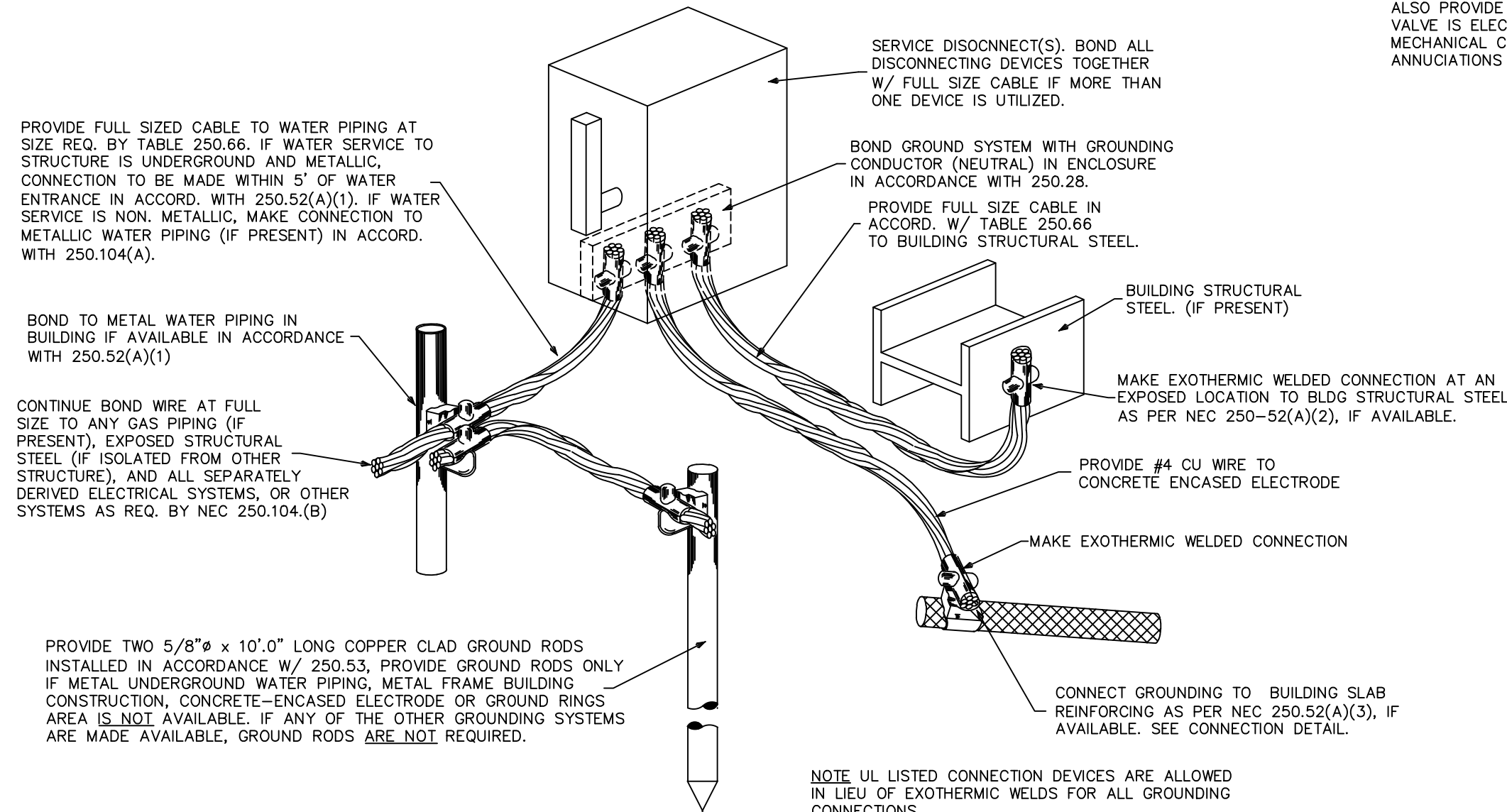
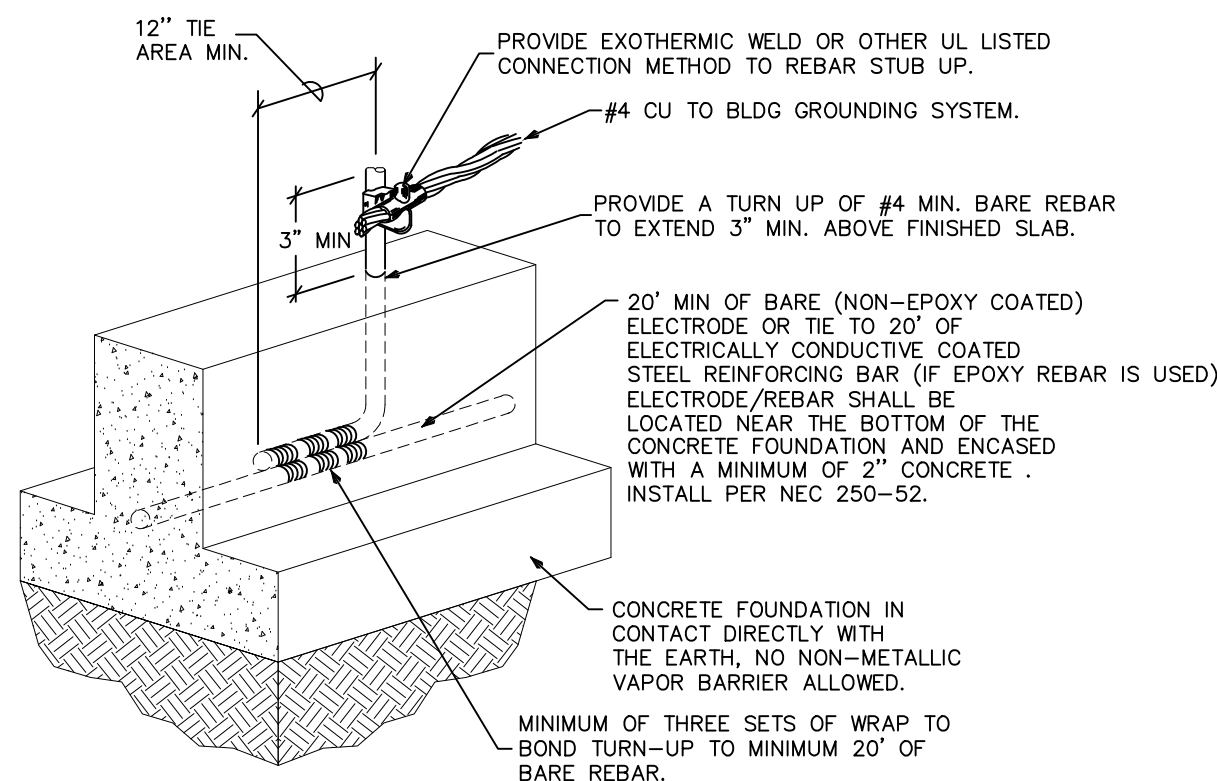
9. PROVIDE AND INSTALL JUNCTION AND PULL BOXES WHERE INDICATED AND WHERE NECESSARY TO TERMINATE, TAP OFF, OR REDIRECT MULTIPLE CONDUIT RUNS, OF SIZE INDICATED OR AS REQUIRED BY NEC. WHERE FEEDER SPLICES ARE TO BE MADE, INSTALL BOXES LARGE ENOUGH TO PROVIDE AMPLE WORK SPACE.

10. LIGHTING FIXTURES: LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS, AND SHALL BE INSTALLED COMPLETE WITH LAMPS

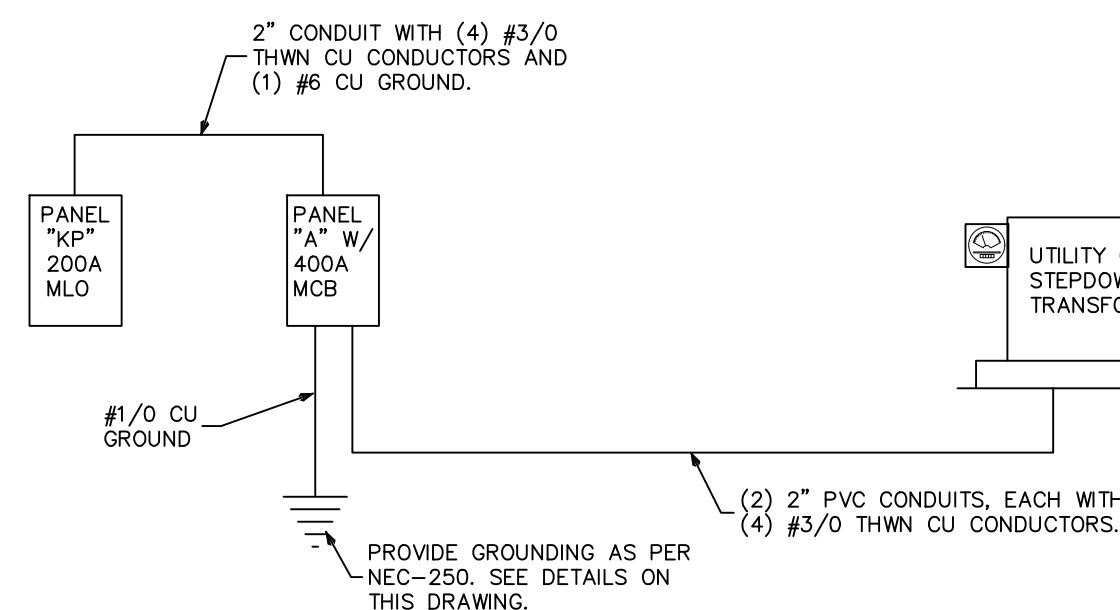
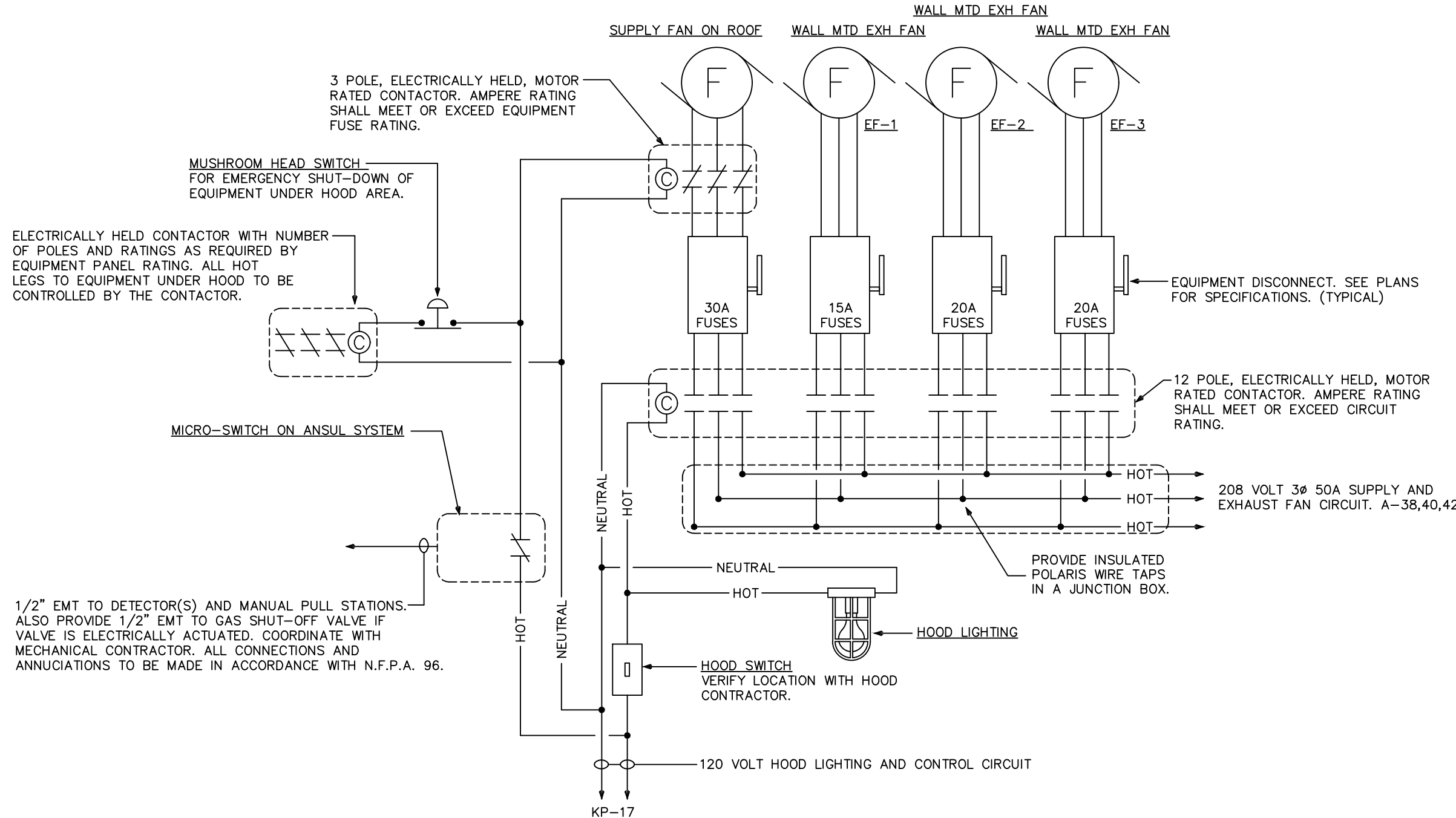
- FIXTURES WITH ADJUSTMENTS AFFECTING LIGHT DISTRIBUTION SHALL BE SET TO PROVIDE THE REQUIRED LIGHT PATTERNS PRIOR TO THE FINAL DEMONSTRATION TEST.

11. TESTS: AFTER EACH SYSTEM HAS BEEN COMPLETED, A FUNCTIONAL TEST SHALL BE PERFORMED TO DEMONSTRATE THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS. THE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE.

12. TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT IS TO HAVE TERMINALS RATED FOR 75° C. OPERATION. SERVICE



PANEL SCHEDULE KP																		
200 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 22000 AMPS MINIMUM A.T.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE																		
##	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.	##	
		COND.	NEUTRAL	GND	C.							KEYS	KEYS	C.	GND			NEUTRAL
1	30/2	#10	#10	#10	1/2	CHAL	PIZZA OVEN	0	2700	-----								
3								0	3340	-----								
5	20/1	#12	#12	#12	1/2	CHAL	FREEZER	1127	0	-----	1127							
7	20/1	#12	#12	#12	1/2	CHAL	REFRIGERATOR	1840	1840	-----	1127							
9	20/1	#12	#12	#12	1/2	CHAL	BUFFET	1500	1500	-----	3340							
11	20/1	#12	#12	#12	1/2	CHAL	BUFFET	1140	1140	-----								
13	20/1	#12	#12	#12	1/2	CHAL	BUFFET	880	880	-----								
15	20/1	#12	#12	#12	1/2	CHAL	RECEPTACLES	1500	1500	-----								
17	20/1	#12	#12	#12	1/2	CHAL	HODDS LIGHTING / CONTROLS	1000	1000	-----								
19	20/1	#12	#12	#12	1/2	CHAL	ICE MAKER	1500	1500	-----								
21	20/1	#12	#12	#12	1/2	CHAL	TEA MACHINE	1500	1500	-----								
23	20/1	#12	#12	#12	1/2	CHAL	COFFEE MACHINE	900	900	-----								
25	20/1	#12	#12	#12	1/2	CHAL	SODA DISPENSER	1920	1920	-----								
27	50/2	#8	---	#10	1/2	CHAL	DISHWASHER W/ ELECTRIC HT	725	725	-----								
31	50/2	#8	---	#10	1/2	CHAL	DISHWASHER BOOSTER HTR	1600	1600	-----								
33	20/1	#12	#12	#12	1/2	CHAL	FLY FAN	1180	1180	-----								
35	20/1	#12	#12	#12	1/2	CHAL	OFFICE RECEPTACLES	1500	1500	-----								
37	20/1	#12	#12	#12	1/2	CHAL	GAS WATER HEATER FAN	540	540	-----								
39	20/1	#12	#12	#12	1/2	CHAL	SPACE	666	666	-----								
41							SPACE	0	3636	-----								
43							SPACE	0	0	-----								
45							SPACE	0	0	-----								
47							SPACE	0	0	-----								
49							SPACE	0	0	-----								
51							SPACE	0	0	-----								
53							SPACE	0	0	-----								
55							SPACE	0	0	-----								
57							SPACE	0	0	-----								
59							SPACE	0										



PANEL SCHEDULE A																				
400 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, 400A. M.C.B.'s, 22000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 3R ENCLOSURE																				
##	BKR.	WIRE AND CONDUIT					LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT					BKR.	##	
		COND.	NEUTRAL	GND	C.	KEYS							KEYS	C.	GND	NEUTRAL	COND.			
1								0	2088	-----	-----									
3	30/3	#10	---	#10	1/2	CHAL	CONDENSING UNIT-2	0	2088	-----	-----									2
5								0	2088	-----	-----									4
7	20/1	#12	#12	#12	1/2	CHAL	AIR HANDLER-2	1920	1920	-----	-----									6
9	20/2	#12	---	#12	1/2	CHAL	CONDENSING UNIT-4	0	766	-----	-----									10
11								0	2088	-----	-----									12
13								0	2016	-----	-----									14
15	20/3	#12	---	#12	1/2	CHAL	SF-1	0	2088	-----	-----									16
17								1920	1920	-----	-----									18
19	20/1	#12	#12	#12	1/2	CHAL	KITCHEN LIGHTING	100	100	-----	-----									20
21	20/1	#12	#12	#12	1/2	CHAL	COOLER/FREEZER/BATH LTG	1400	1400	-----	-----									24
23	20/1	#12	#12	#12	1/2	CHAL	DINING AREA LIGHTS	1500	1500	-----	-----									26
25	20/1	#12	#12	#12	1/2	CHAL	DINING AREA LIGHTS	500	500	-----	-----									28
27	20/1	#12	#12	#12	1/2	CHAL	TENANT SIGNAGE *	920	920	-----	-----									30
29	20/1	#12	#12	#12	1/2	CHAL	COOLER/FREEZER DOOR. HTRS	1800	1800	-----	-----									32
31	20/1	#12	#12	#12	1/2	CHAL	RECEPTACLES	720	720	-----	-----									34
33	20/1	#12	#12	#12	1/2	CHAL	RECEPTACLES	720	1144	-----	-----									36
35	20/2	#12	---	#12	1/2	CHAL	INSTA-HOT WATER HEATER	900	1313	-----	-----									38
37								10656	25640	-----	-----									40
39	20/2	#12	---	#12	1/2	CHAL	INSTA-HOT WATER HEATER	7731	1313	-----	-----									42
41								9113	29072	-----	-----									44
43							SPACE	0	0	-----	-----									46
45							SPACE	0	0	-----	-----									48
47							SPACE	0	0	-----	-----									50
49							SPACE	0	0	-----	-----									52
51							SPACE	0	0	-----	-----									54
53							SPACE	0	0	-----	-----									56
55							SPACE	0	0	-----	-----									58
WIRE/CONDUIT KEY								PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 155.3 AMPS												
124 C-U WIRE								NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 369.8 AMPS												
TEMP RATING								45C/57 46B65 40994												
CONDUIT TYPE								133.116												
INSULATION								PRINTED IN PANELS PROGRAM SERIAL NUMBER 2001.4001												
WIRING TYPE								REGISTERED TO - TODD V. CAREY AND ASSOCIATES OF THE CARDINAS												

PANEL NOTES:
* - PROVIDE TIMECLOCK CONTROL FOR THIS CIRCUIT

PANEL A DIVERSIFICATION CALCULATIONS		
RECEPTACLES (16) -	2880 VA TOTAL	
FIRST 10 KVA AT 100% -	2880	
LIGHTING -	4020 X 125% -	5025
HVAC LOAD AT 100% -		26083
MOTOR LOADS AT 100% -		11574
PLUS 25% OF THE LARGEST MOTOR -		1440
MISC NON-CONTINUOUS LOADS AT 100% -		11498
MISC CONTINUOUS LOADS AT 125% -		
1500 X 1.25 -		1875
KITCHEN EQUIPMENT (32) -		
75557 X 0.65 -		49112
TOTAL DIVERSIFIED PANEL LOAD -		109487
LOAD AT 120/208V/3-PHASE/4-WIRE -		304.1A

PANEL KP DIVERSIFICATION CALCULATIONS			
RECEPTACLES (8) - 1440 VA TOTAL			
	FIRST 10 KVA AT 100% -	1440	
LIGHTING -	400 x 125% -	500	
MOTOR LOADS AT 100% -		11574	
PLUS 25% OF THE LARGEST MOTOR -		1503	
MISC NON-CONTINUOUS LOADS AT 100% -		100	
KITCHEN EQUIPMENT (26)			
64869 X 0.65 -		42165	
TOTAL DIVERSIFIED PANEL LOAD -			57282
LOAD AT 120/208V/3-PHASE/4-WIRE -			159.1A

LOCAL UTILITY COMPANY STEPDOWN TRANSFORMER WITH A 120/208V/3 ϕ /4W SECONDARY AND INTEGRAL METERING. COORDINATE ALL ASPECTS OF SERVICE WITH LOCAL UTILITY CO. REPRESENTATIVE PRIOR TO ANY CONSTRUCTION WORK.