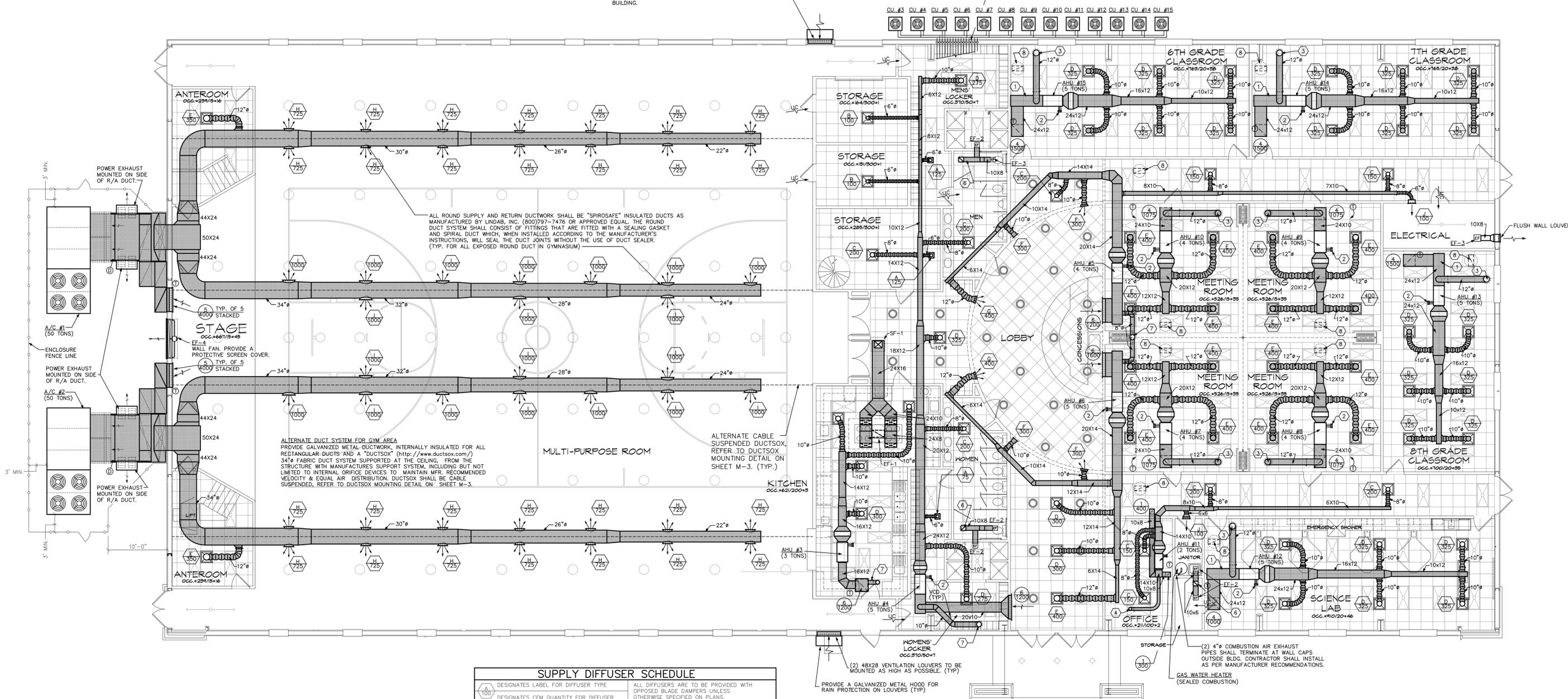


(2) 48x48 ALUMINUM "POTTORFF" MODEL EBI-445 OPERABLE INTAKE STORM LOUVER TO BE STACKED VERTICALLY. EACH LOUVER TO BE PROVIDED WITH A NEOPRENE GASKET ALONG FULL LENGTH OF EACH BLADE TO SEAL MATING BLADE SURFACE. LOUVERS SHALL ALSO BE PROVIDED WITH AN ELECTRIC ACTUATOR INTERLOCKED WITH EF-4. PROVIDE AN INTERLOCK SO EXHAUST FAN CANNOT OPERATE SIMULTANEOUSLY WITH HVAC UNIT. ONE PAIR TO BE PROVIDED ON EACH SIDE AT THE REAR OF THE BUILDING.

REFRIGERANT PIPING UP IN EXTERIOR WALL TO CEILING SPACE. OFFSET ACROSS CLG. TO AHU'S. CONTRACTOR SHALL SIZE ALL REFRIGERANT PIPING AS PER MANUFACTURER'S RECOMMENDATIONS.

NOTE
CONTRACTOR IS RESPONSIBLE TO FULLY COORDINATE ALL CLEARANCES AND CONDITIONS OF THE STRUCTURAL SYSTEM PRIOR TO ANY DUCT FABRICATION OR UNIT PLACEMENT. CEILING HEIGHTS AND DROPPED AREAS SHALL BE PROVIDED AS REQUIRED TO FIT THE DUCTWORK IN ALL AREAS. CONTRACTOR SHALL COORDINATE PROVIDED EQUIPMENT SERVICE REQUIREMENTS WITH ALL SYSTEMS TO INSURE ADEQUATE SERVICE AND ACCESS IS PROVIDED AS PER INSTALLATION INSTRUCTIONS. PROVIDE ACCESS DOORS, RATED IF REQUIRED, TO PROVIDE ACCESS TO SERVICE UNITS IF REQUIRED BY INSTALLATION REQUIREMENTS.



SUPPLY DIFFUSER SCHEDULE

LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS TDC-AA	6"ø	0 - 125	12X12 LOUVERED FACE
B	TITUS TDC-AA	6"ø	0 - 125	24X24 LOUVERED FACE
C	TITUS TDC-AA	8"ø	130 - 200	24X24 LOUVERED FACE
D	TITUS TDC-AA	10"ø	205 - 325	24X24 LOUVERED FACE
E	TITUS TDC-AA	12"ø	330 - 450	24X24 LOUVERED FACE
F	TITUS 300RL	14x6	205 - 300	SIDEWALL REGISTER
G	TITUS 300RL	18x6	305 - 450	SIDEWALL REGISTER
H	TITUS S300FS	18x12	0 - 900	DIRECT SPIRAL MOUNTED REGISTER
I	TITUS S300FS	24x12	905 - 1100	DIRECT SPIRAL MOUNTED REGISTER
J	TITUS 300RL	10x6	0 - 200	SIDEWALL REGISTER

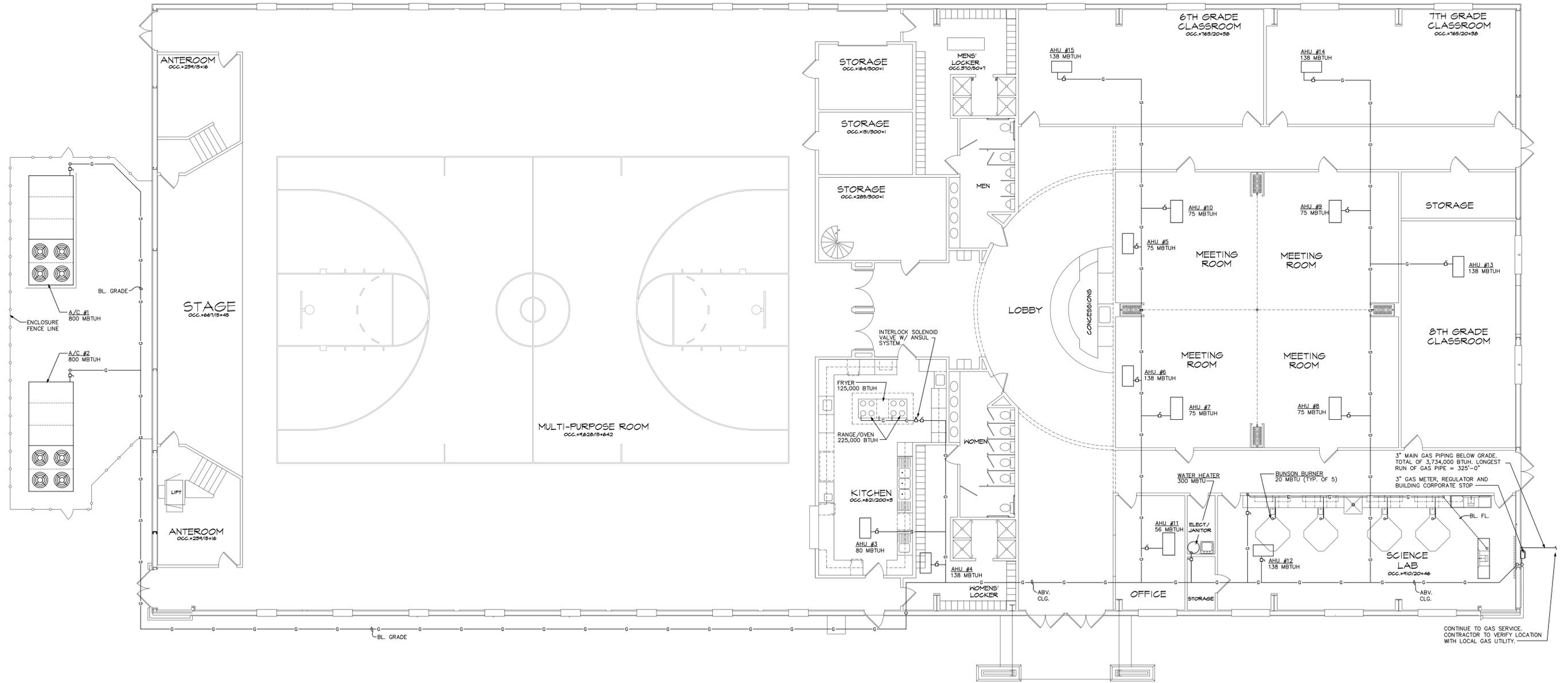
RETURN GRILLE SCHEDULE

LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	10X10	0 - 400	LOUVER FACE
2	TITUS 355FL	12X12	400 - 600	LOUVER FACE
3	TITUS 355FL	18X18	605 - 1200	LOUVER FACE
4	TITUS 355FL	24X24	1205 - 2000	LOUVER FACE
5	TITUS 355FL	24X48	2005 - 4500	EGGCRATE GRILLE
6	TITUS 355FL	48X18	1500 - 2200	SIDEWALL REGISTER

1 FLOOR PLAN - MECHANICAL
SCALE: 1/8"=1'-0"

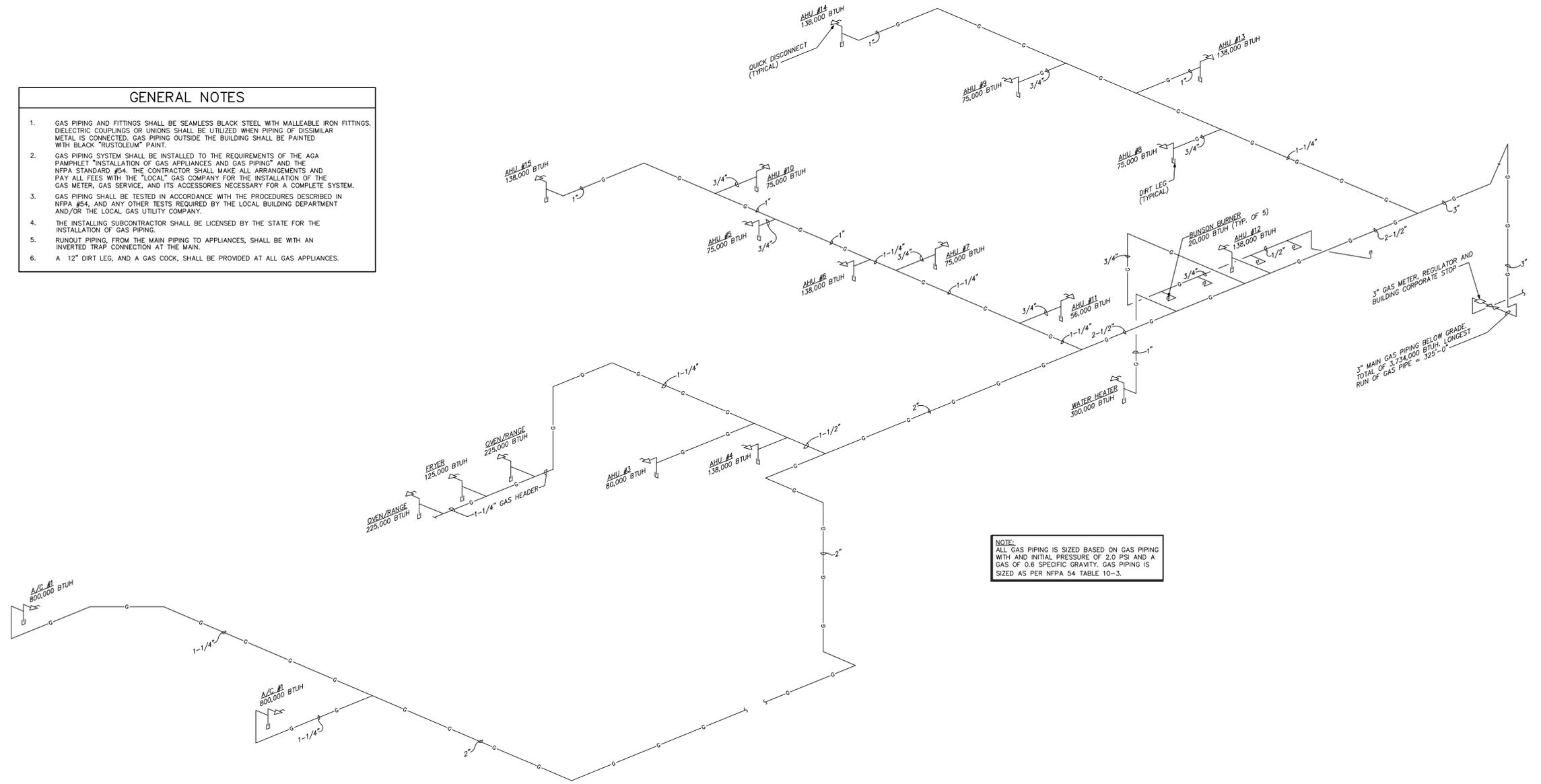
SPECIFIC MECHANICAL NOTES

- RETURN AIR DUCT PLENUM SHALL BE FULL SIZE OF AHU RETURN AIR OPENING.
- (2) 2" COMBUSTION AIR EXHAUST PIPES SHALL ROUTE UP TO A "CARRIER" CONCENTRIC VENT/INTAKE AIR ROOF TERMINATION KIT.
- 12"ø OUTSIDE AIR DUCT UP THRU ROOF TO ROOF CAP.
- 6"ø OUTSIDE AIR DUCT UP THRU ROOF TO ROOF CAP.
- 10x6 EXHAUST DUCT UP THRU ROOF TO ROOF CAP.
- 10x10 EXHAUST DUCT UP THRU ROOF TO ROOF CAP.
- 8"ø OUTSIDE AIR DUCT UP THRU ROOF TO ROOF CAP.
- 22x10 POSITIVE PRESSURE RELIEF DAMPER SHALL BE A TITS MODEL 55FL. PROVIDE PRESSURE RELIEF REGISTER WITH A BACK DRAFT DAMPER WITH AIR FLOW TOWARDS CEILING SPACE. 22X10 PRESSURE RELIEF DUCT SHALL ROUT FROM REGISTER THROUGH CEILING SPACE TO ROOF CAP.



1 FLOOR PLAN - GAS PIPING
 SCALE: 1/8"=1'-0"

- GENERAL 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. GAS PIPING OUTSIDE THE BUILDING SHALL BE PAINTED WITH BLACK "TRUSTOLEUM" PAINT.
 2. GAS PIPING SYSTEM SHALL BE INSTALLED TO THE REQUIREMENTS OF THE AGA 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.



1 GAS ISOMETRIC
NO SCALE

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	SEE HOOD DETAILS AND SPECIFICATIONS ON SHEET M-4.									
EF-2	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z6	90	.125"	CEILING MOUNTED	50 WATTS	OPEN DRIP PROOF	1055	115V/1Ø	1
EF-3	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z81	300	.125"	CEILING MOUNTED	124 WATTS	OPEN DRIP PROOF	1115	115V/1Ø	1
SF-1	SEE HOOD DETAILS AND SPECIFICATIONS ON SHEET M-4.									

NOTES: 1.) REFER TO ELECTRICAL PLANS FOR CONTROL.

EF-4 SHALL BE A "PENN" BREEZEWAY TYPE BC MODEL BCH48, 5 HP, 810 RPM, 208V/3Ø, 30,138 CFM @ 0.20" ESP, WITH A 48"X48" SELF ACTING WALL SHUTTER. PROVIDE "PENN" SUP-IN FAN PAK WITH THE INTERIOR SCREEN GUARD AND EXTERIOR WEATHERSHIELD WITH AN EXTERIOR SCREEN GUARD. MOUNT FAN AS HIGH AS POSSIBLE ABOVE STAGE. COORDINATE EXACT MOUNTING WITH OWNER IN FIELD PRIOR TO INSTALLATION.

A/C PACKAGE UNIT W/GAS HEAT SCHEDULE																		
SYS. LABEL	MANUFACTURER	MODEL NO.	TOTAL CAPACITY	SENSIBLE CAPACITY	TOTAL CFM	O/A CFM	E.S.P.	FAN SPEED	COMP. RLA	OUTDOOR FAN FLA	INDOOR FAN HP	HEATER BTU OUTPUT	HEATER BTU INPUT	VOLTAGE	MOCP	EER/SEER	POWER EXHAUST FLA	NOTES
A/C #1&2	CARRIER	48AWE050	600,000	456,000	19,800	SEE SCH.	.4"	1161	(3)@16.0/(1)@22.4	(4) @ 2.7	30.0 HP	656,000	800,000	480V/3Ø	175	9.30	(2) @ 12.6	1 THRU 11

GENERAL NOTES:
 * ALL RATINGS ARE AT ARI ENTERING CONDITIONS UNLESS OTHERWISE NOTED.
 * PROVIDE VIBRATION ISOLATION FOR UNIT.
 * EXTERNAL STATIC PRESSURE DOES NOT INCLUDE COIL OR FILTER PRESSURE DROP.
 * APPROVED EQUALS SHALL BE TRANE, LENNOX AND YORK. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ANY CLEARANCE REQUIREMENTS ARE MET FOR ANY SUBSTITUTIONS.

ABBREVIATION LEGEND:
 O/A - OUTSIDE AIR
 HP - HORSE POWER
 RLA - RUNNING LOAD AMPS
 FLA - FULL LOAD AMPS
 MOCP - MAX. OVERCURRENT PROTECTION (DUAL ELEMENT TYPE FUSE)
 E.S.P. - EXTERNAL STATIC PRESSURE
 EER - ENERGY EFFICIENCY RATIO
 SEER - SEASONAL ENERGY EFF. RATIO

SPECIFIC NOTES:
 1) (2) POWER EXHAUST AND BAROMETRIC RELIEF UNITS SHALL BE MOUNTED ON THE SIDE OF RETURN AIR DUCTWORK. SEE PLAN.
 2) OUTDOOR AIR MANUAL DRG TO 30% DAMPER.
 3) ELECTRONIC PROGRAMMABLE THERMOSTAT.
 4) COMPRESSOR TIME DELAY.
 5) HEAD PRESSURE CONTROL.
 6) FILTER DOOR ACCESS PANEL KIT.
 7) PROVIDE (1) YEAR WARRANTY ON ALL PARTS AND LABOR AND (5) YEAR WARRANTY ON COMPRESSOR.
 8) PROVIDE 1" FIBER 30/30 THROWAWAY FILTERS. (1) SET DURING CONSTRUCTION AND (1) SET AFTER FINAL INSPECTION.
 10) INSULATE CONDENSATE DRAIN LINE WITH 1/2" ARMAFLEX.
 11) PROVIDE ALL NECESSARY CONTACTORS, RELAYS, MOTOR STARTERS, ETC. FOR A COMPLETE OPERATING UNIT.

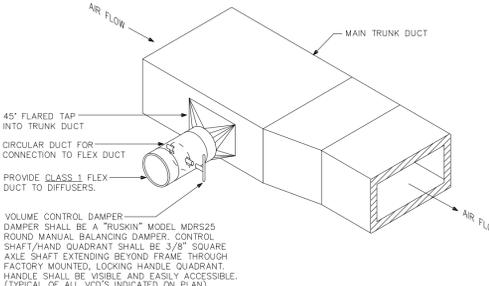
CONDENSING UNIT										EVAPORATOR COIL UNIT				GAS FURNACE						
CU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CAPACITY	SENSIBLE CAPACITY	COMP. RLA	FAN FLA	VOLTAGE	MOCP	EER/SEER	MANUFACTURER & MODEL NO.	AHU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CFM	E.S.P.	BLOWER SPEED	FAN HP	VOLTAGE	INPUT BTUH	OUTPUT BTUH	FLUE SIZE	NOTES
CU #3	CARRIER 38CKC-036-501	34,000	25,700	16.0	1.4	208V/1Ø	30	10.0	CARRIER CK3BXA 036	AHU #1	CARRIER 58MXA-080-130-12	1,200	.30"	MED.-HIGH	1/3	120V/1Ø	80,000	75,000	2"	1 THRU 4
CU #4	CARRIER 38CKC-060-601	57,000	41,000	8.0	0.8	480V/3Ø	20	10.0	CARRIER CK3BXA 060	AHU #2	CARRIER 58MXA-120-130-20	2,000	.30"	HIGH	3/4	120V/1Ø	138,000	129,000	2"	1 THRU 4
CU #5	CARRIER 38CKC-048-601	46,000	32,700	6.2	0.8	480V/3Ø	20	10.0	CARRIER CK3BXA 048	AHU #3	CARRIER 58MXA-080-130-16	1,600	.30"	HIGH	1/2	120V/1Ø	80,000	75,000	2"	1 THRU 4
CU #6	CARRIER 38CKC-060-601	57,000	41,000	8.0	0.8	480V/3Ø	20	10.0	CARRIER CK3BXA 060	AHU #4	CARRIER 58MXA-120-130-20	2,000	.30"	HIGH	3/4	120V/1Ø	138,000	129,000	2"	1 THRU 4
CU #7	CARRIER 38CKC-048-601	46,000	32,700	6.2	0.8	480V/3Ø	20	10.0	CARRIER CK3BXA 048	AHU #5	CARRIER 58MXA-080-130-16	1,600	.30"	HIGH	1/2	120V/1Ø	80,000	75,000	2"	1 THRU 4
CU #8	CARRIER 38CKC-048-601	46,000	32,700	6.2	0.8	480V/3Ø	20	10.0	CARRIER CK3BXA 048	AHU #6	CARRIER 58MXA-080-130-16	1,600	.30"	HIGH	1/2	120V/1Ø	80,000	75,000	2"	1 THRU 4
CU #9	CARRIER 38CKC-048-601	46,000	32,700	6.2	0.8	480V/3Ø	20	10.0	CARRIER CK3BXA 048	AHU #7	CARRIER 58MXA-080-130-16	1,600	.30"	HIGH	1/2	120V/1Ø	80,000	75,000	2"	1 THRU 4
CU #10	CARRIER 38CKC-048-601	46,000	32,700	6.2	0.8	480V/3Ø	20	10.0	CARRIER CK3BXA 048	AHU #8	CARRIER 58MXA-080-130-16	1,600	.30"	HIGH	1/2	120V/1Ø	80,000	75,000	2"	1 THRU 4
CU #11	CARRIER 38CKC-024-501	22,400	16,200	10.7	1.0	208V/1Ø	20	10.0	CARRIER CK3BXA 024	AHU #9	CARRIER 58MXA-060-130-08	800	.30"	MED.-LOW	1/5	120V/1Ø	60,000	56,000	2"	1 THRU 4
CU #12	CARRIER 38CKC-060-601	57,000	41,000	8.0	0.8	480V/3Ø	20	10.0	CARRIER CK3BXA 060	AHU #10	CARRIER 58MXA-120-130-20	2,000	.30"	HIGH	3/4	120V/1Ø	138,000	129,000	2"	1 THRU 4
CU #13	CARRIER 38CKC-060-601	57,000	41,000	8.0	0.8	480V/3Ø	20	10.0	CARRIER CK3BXA 060	AHU #11	CARRIER 58MXA-120-130-20	2,000	.30"	HIGH	3/4	120V/1Ø	138,000	129,000	2"	1 THRU 4
CU #14	CARRIER 38CKC-060-601	57,000	41,000	8.0	0.8	480V/3Ø	20	10.0	CARRIER CK3BXA 060	AHU #12	CARRIER 58MXA-120-130-20	2,000	.30"	HIGH	3/4	120V/1Ø	138,000	129,000	2"	1 THRU 4
CU #15	CARRIER 38CKC-060-601	57,000	41,000	8.0	0.8	480V/3Ø	20	10.0	CARRIER CK3BXA 060	AHU #13	CARRIER 58MXA-120-130-20	2,000	.30"	HIGH	3/4	120V/1Ø	138,000	129,000	2"	1 THRU 4

GENERAL NOTES:
 * ALL RATINGS ARE AT ARI ENTERING CONDITIONS UNLESS OTHERWISE NOTED.
 * PROVIDE VIBRATION ISOLATION FOR UNITS.
 * EXTERNAL STATIC PRESSURE DOES NOT INCLUDE COIL OR FILTER PRESSURE DROP.
 * CONTRACTOR MAY SUBSTITUTE MANUFACTURER FOR APPROVED EQUAL. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ANY CLEARANCE REQUIREMENTS ARE MET FOR ANY SUBSTITUTIONS.

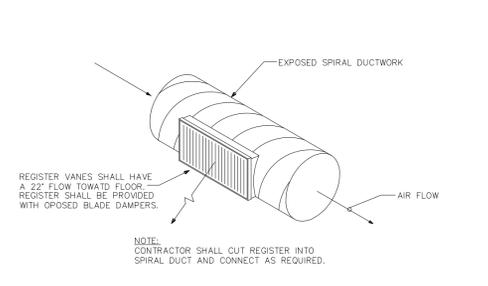
ABBREVIATION LEGEND:
 O/A - OUTSIDE AIR
 HP - HORSE POWER
 RLA - RUNNING LOAD AMPS
 FLA - FULL LOAD AMPS
 MOCP - MAX. OVERCURRENT PROTECTION (DUAL ELEMENT TYPE FUSE)
 E.S.P. - EXTERNAL STATIC PRESSURE
 EER - ENERGY EFFICIENCY RATIO
 SEER - SEASONAL ENERGY EFF. RATIO

SPECIFIC NOTES:
 1) SIZE AND RUN REFRIGERANT PIPING AS PER MANUFACTURERS PUBLISHED RECOMMENDATIONS.
 2) INSULATE REFRIGERANT SUCTION LINE WITH 2/4" ARMAFLEX OR APPROVED EQUAL.
 3) PROVIDE 5 YEAR WARRANTY ON COMPRESSOR AND 1 YEAR WARRANTY ON ALL PARTS AND LABOR.
 4) FURNACE SHALL BE PROVIDED WITH CONCENTRIC VENT/INTAKE AIR ROOF TERMINATION KIT.

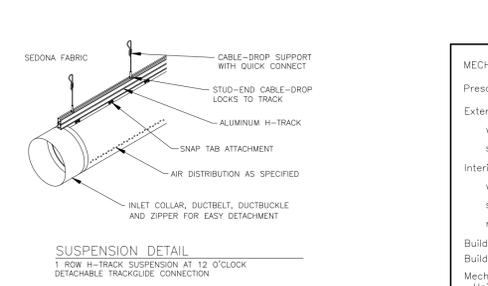
- ### GENERAL MECHANICAL NOTES
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS. ALL MANUFACTURERS INSTALLATION REQUIREMENTS, THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS: SMACNA, ASHRAE, NFPA 90A, 90B, 91 & ANSI B-91 MECHANICAL 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 ENSURE AN ORDERLY PROGRESS OF THIS WORK.
 - ALL MATERIAL SHALL BE NEW OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED WORKMAN.
 - ALL NON-EXPOSED SUPPLY AND RETURN AIR DUCTWORK SHALL BE GALVANIZED SHEET STEEL EXTERNALLY WRAPPED WITH 1" INSULATION WITH A 4.2 R VALUE OR HIGHER.
 - 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".
 - 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.
 - ARMAFLEX 3/4" INSULATION SHALL BE USED FOR SUCTION LINES. PRE-INSULATED REFRIGERANT LINE KITS ARE ACCEPTABLE.
 - PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO FINAL ACCEPTANCE BY OWNER.
 - 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 A/C UNIT.
 - 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.



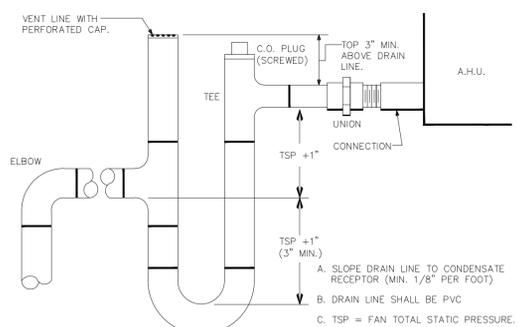
2 BRANCH DUCT DETAIL
NO SCALE



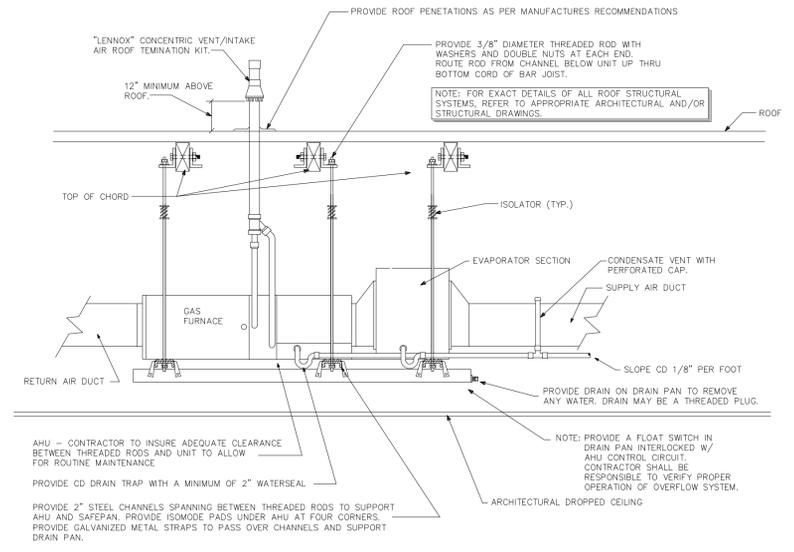
3 SPIRAL DUCT / REGISTER CONNECTION DETAIL
NO SCALE



4 ALTERNATE DUCTDOX MTG. DETAIL
NO SCALE



1 CONDENSATE P-TRAP DETAIL
NOT TO SCALE



5 AHU MOUNTING DETAIL
NO SCALE

MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT

Prescriptive METHOD OF COMPLIANCE: Performance Energy Cost Budget

Exterior Design Conditions
 winter dry bulb _____ 20° F
 summer dry bulb _____ 97° F

Interior Design Conditions
 winter dry bulb _____ 68° F
 summer dry bulb _____ 74° F
 relative humidity _____ 52.0%

Building Heating Load _____ 860,000 BTU
 Building Cooling Load _____ 781,000 BTU

Mechanical Spacing Conditioning System
 Unitary
 Description of unit _____ REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
 heating efficiency _____ REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
 cooling efficiency _____ REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
 heat output of unit _____ REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
 cooling output of unit _____ REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

Boiler _____ N/A
 total boiler output, if oversized, state reason.

Chiller _____ N/A
 total chiller capacity, if oversized, state reason.

List equipment efficiencies
 Equipment schedules with motors (mechanical systems) _____ REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
 motor horsepower _____ REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
 number of phases _____ REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
 minimum efficiency _____ REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
 motor type _____ REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
 # of poles _____ REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

DESIGNER STATEMENT:
 To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of ASHRAE Standard 90.1 2001.
 SIGNED: _____
 NAME: _____
 TITLE: _____

M4

FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	EXHAUST FAN						SUPPLY FAN												
		MODEL	TAG	CFM	S.P.	RPM	H.P.	#	VOLT	FLA	BLOWER	HOUSING	TAG	CFM	S.P.	RPM	H.P.	#	VOLT	FLA
1	NCA18FA	NCA18FA		3650	-0.750"	873	1.000	3	208	3.3	G12	NSAU.2	2920	0.500"	688	0.750	3	208	2.7	
2	NSAU.2-G12																			

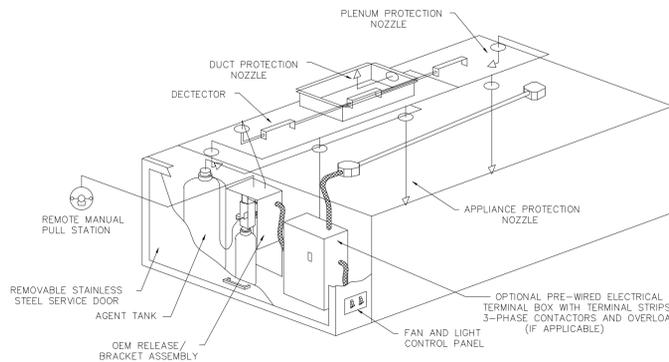
FAN OPTIONS

FAN NO.	OPTION (Qty. - Descr.)
1	1 - Grease Box

CURB ASSEMBLIES

NO.	ON FAN	ITEM	SIZE
1	# 1	Curb	26.500"W x 26.500"L x 20.000"H 3,000:12,000 Pitch Vented Hinged
2	# 2	Curb	32.500"W x 32.500"L x 14.000"H 3,000:12,000 Pitch

* VERIFY ROOF PITCH

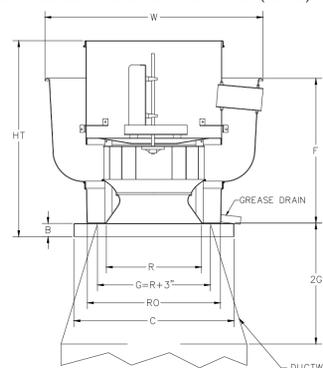


TYPICAL UL300 LIQUID FIRE SYSTEM LAYOUT

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

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

NCAFA SERIES UPBLAST EXHAUST FANS (UL762)



FEATURES:

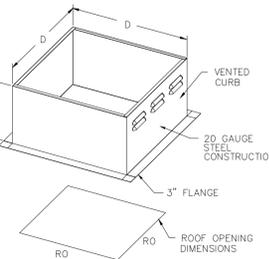
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

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 DETRIORATING 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
- HINGED FAN
- PITCHED CURB
- INSULATED CURB



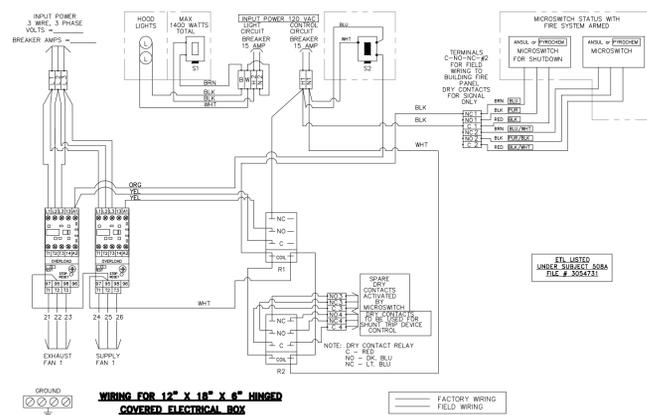
CURB DIMENSIONAL DATA

FAN MODEL	D	E
NCA18FA	26 1/2	20

NCAFA BELT DRIVE CENTRIFUGAL UP-BLAST EXHAUST FANS DIMENSIONAL DATA

FAN MODEL	HT	W	B	C	F	R	RO	WEIGHT LB
NCA18FA	33 3/8	38 7/8	2	28	29 1/2	18	24	195

KITCHEN EXHAUST FAN DETAIL AND SCHEDULES.



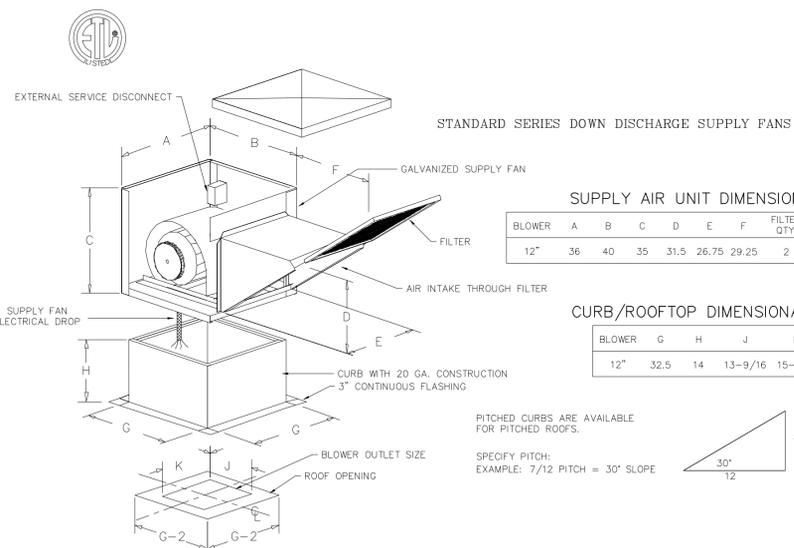
WIRING FOR 12" X 16" X 6" HINGED COVERED ELECTRICAL BOX

ELECTRICAL PACKAGES

NO.	TAG	PACKAGE #	LOCATION	SWITCHES	QUANTITY	ROOFTOP STARTERS	OPTION	FANS CONTROLLED
1	31111002		Utility Cabinet Left Hood # 1	Utility Cabinet Left Hood # 1 1 Light 1 Fan	1		Exhaust in Fire	Exhaust 3 1,000:2000 3.3 Supply 3 0,750:2000 2.7

NOTE: IF WALL MOUNT PREWIRE, OR FIELD INSTALLED FIRE SYSTEM MICROSWITCH TERMINALS SHOWING FACTORY WIRING MUST BE FIELD WIRED

PREWIRE PACKAGE INFORMATION



SUPPLY AIR UNIT DIMENSIONAL DATA

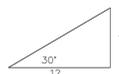
BLOWER	A	B	C	D	E	F	FILTER QTY.	FILTER SIZE	WEIGHT
12"	36	40	35	31.5	26.75	29.25	2	20" X 25"	290 LBS.

CURB/ROOFTOP DIMENSIONAL DATA

BLOWER	G	H	J	K
12"	32.5	14	13-9/16	15-3/4

PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH: EXAMPLE: 7/12 PITCH = 30° SLOPE



KITCHEN SUPPLY FAN DETAIL AND SCHEDULES.

HOOD INFORMATION

HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM				SUPPLY PLENUM				HOOD CONSTRUCTION	HOOD CONFIG.	
				TOTAL EXH. CFM	WIDTH	LENGTH	DIA.	TOTAL SUPP. CFM	WIDTH	LENGTH	DIA.		END TO END	ROW
1	6024 NDI-PSP-FB	10' 0.00"	400 Deg.	3660	14"	25"	3650-0.458"	2920				430 SS Where Exposed		

HOOD INFORMATION

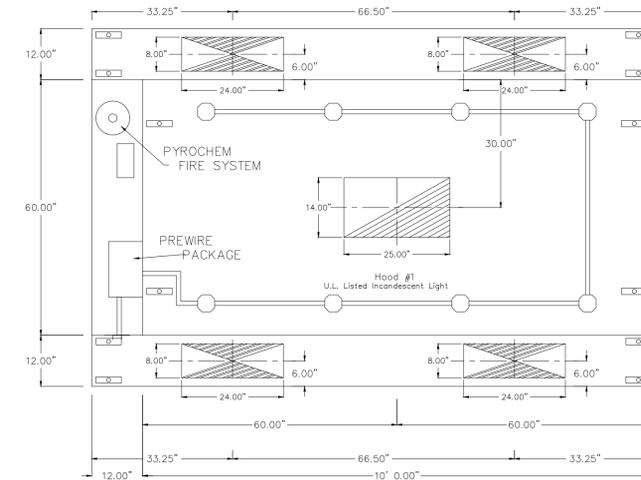
HOOD NO.	TYPE	QTY.	HEIGHT	LENGTH	QTY.	TYPE	WIRE GUARD	LOCATION	FIRE SYSTEM		UTILITY CABINET(S)		ELECTRICAL MODEL #	QUANTITY	LOCATION	PIPING	FIRE SYSTEM	HOOD HEIGHT
									TYPE	SIZE	TYPE	SIZE						
1	SS Baffle with Handles	1	12"	16"	20"	8	Inconducent Light	NO	Left	Pyrochem	One Tank	31111002	1	Light 1 Fan	Outside	YES	785 LBS.	

PERFORMED SUPPLY PLENUM(S)

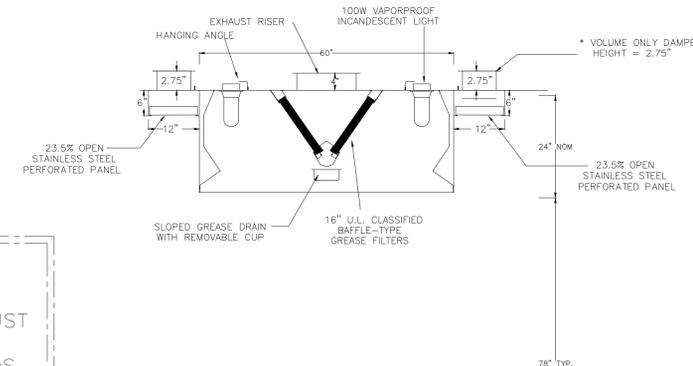
HOOD NO.	POS.	LENGTH	WIDTH	HEIGHT	RISER(S)	CFM	S.P.
1	Front	133.00"	12.00"	8.00"	8" 24"	730	0.099"
	Back	133.00"	12.00"	6.00"	8" 24"	730	0.099"

HOOD OPTIONS

HOOD NO.	OPTION
1	FIELD WRAPPER 17.00" High Front, Left, Right, Back
	RIGHT END STANDOFF(FIN-INS- ISLAND) 1" Wide Insulated



PLAN VIEW - 10' 0.00" LONG 6024NDI-PSP-FB



SECTION VIEW - MODEL 6024NDI

VERIFY CEILING HEIGHT

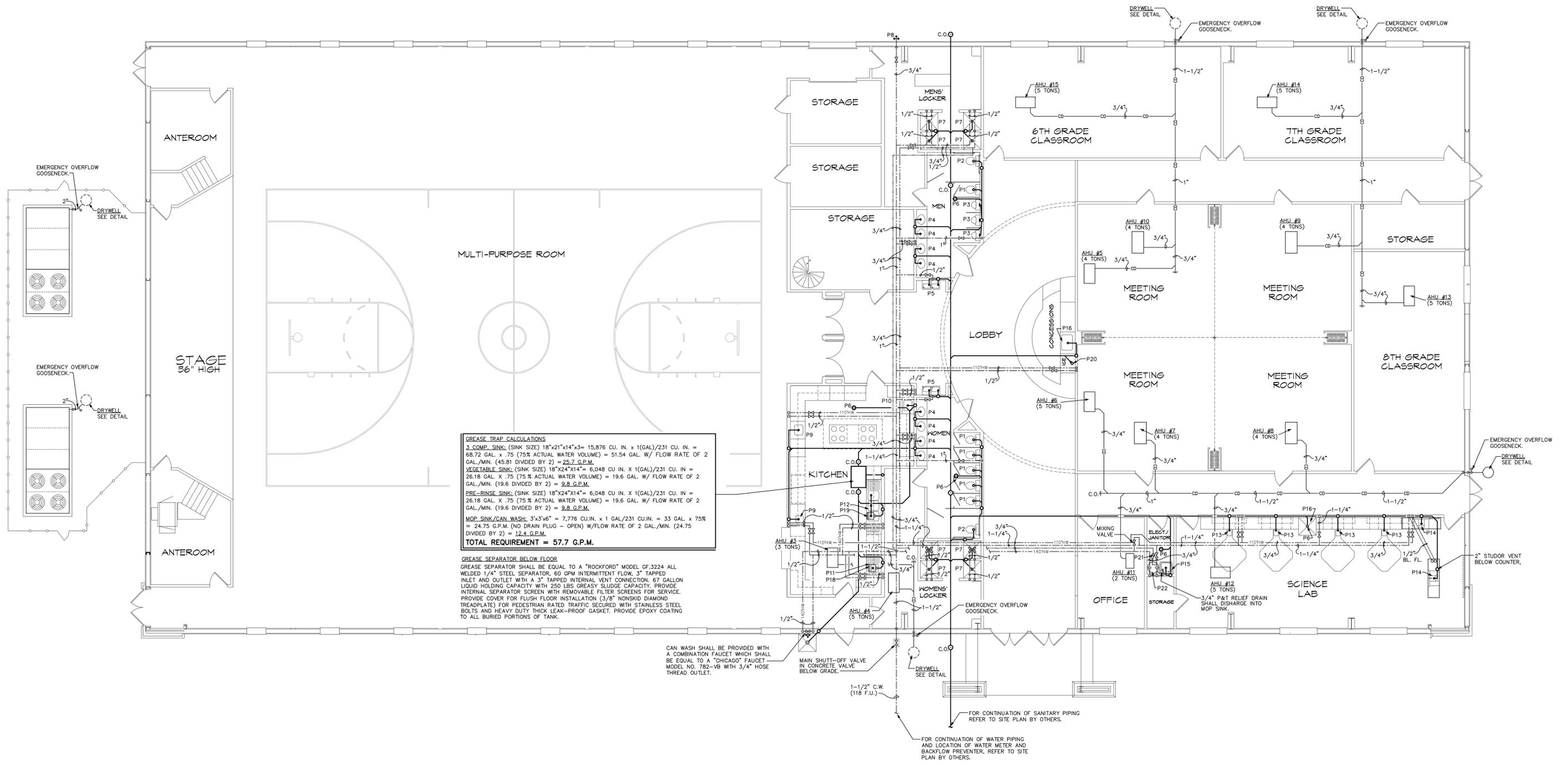
Height required to verify that the hood will fit and to size the enclosure panels

***** NOTE *****

ALL WALLS THAT COME WITHIN 18" OF HOOD MUST BE METAL STUDS AND SHEETROCK. WOOD STUDS NOT ALLOWED.

FOR QUESTIONS, CALL THE CHARLOTTE, NORTH CAROLINA AVERY GRANT PHONE: 704-844-9088, FAX: 704-844-0599 EMAIL: reg30@captiveair.com

EQUIPMENT BY OTHERS

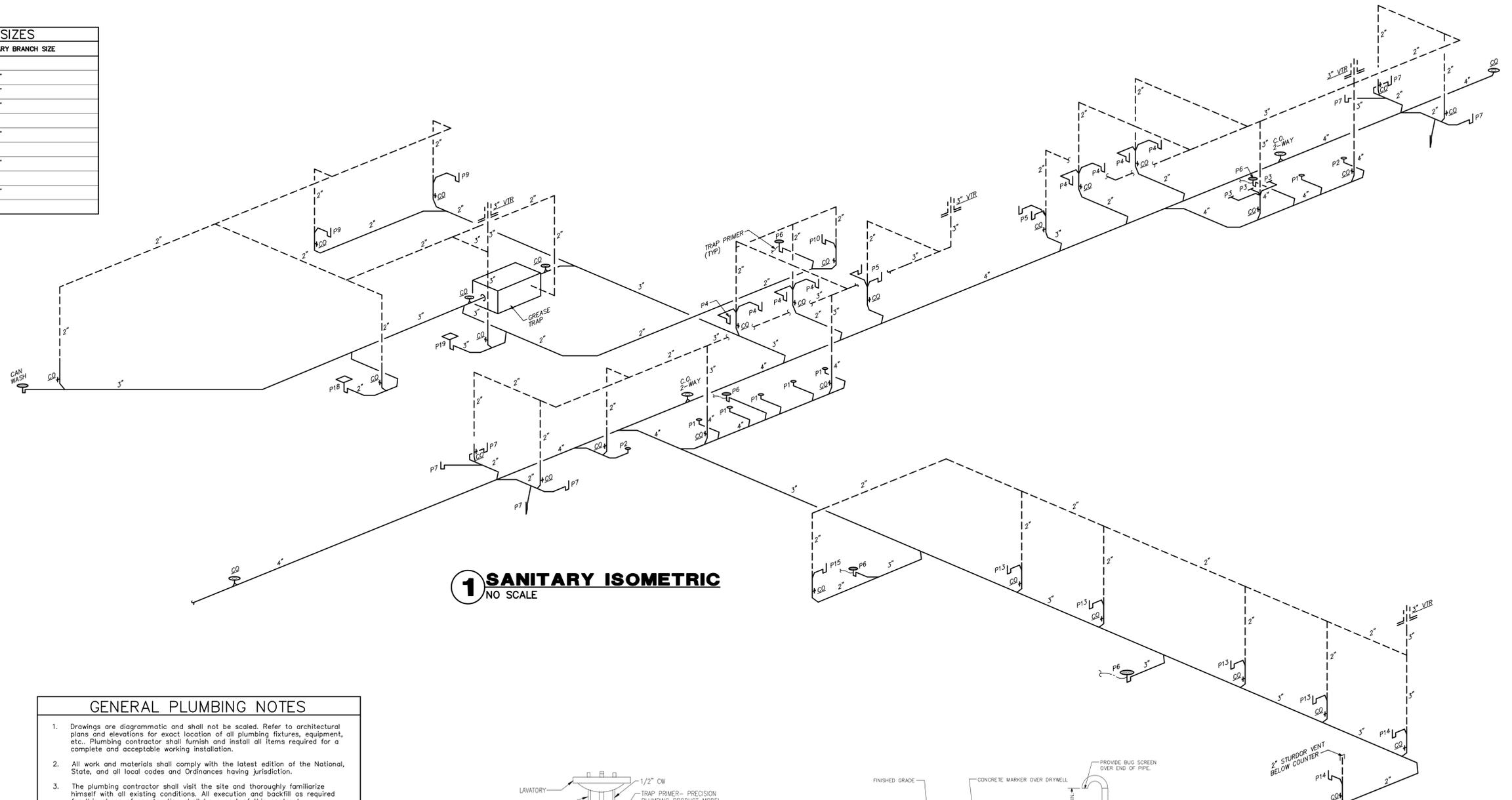


1 FLOOR PLAN - PLUMBING
SCALE: 1/8"=1'-0"

FIXTURE	C.W. CONN. SIZE	H.W. CONNECTION SIZE	SANITARY BRANCH SIZE
P1 & P2	1/2"	-	3"
P3	3/4"	-	1-1/2"
P4	1/2"	1/2"	1-1/4"
P5	1/2"	-	1-1/4"
P6	-	-	3"
P7	1/2"	1/2"	1-1/4"
P8	1/2"	-	-
P9-14	1/2"	1/2"	1-1/2"
P-15	1/2"	1/2"	3"
P16	1/2"	1/2"	1-1/2"
P17	1-1/4"	-	3"

PLUMBING FIXTURE SCHEDULE

- P-1 (WATER CLOSET)**
SHALL BE AN AMERICAN STANDARD MODEL CADET 2898.014 ELONGATED 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT TANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE # 95 OPEN FRONT SEAT LESS COVER.
- P-2 (HANDICAPPED WATER CLOSET)**
SHALL BE AN AMERICAN STANDARD MODEL CADET 2998.012 ELONGATED 18" HIGH, 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT TANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE # 95 OPEN FRONT SEAT LESS COVER. CONTRACTOR TO ORDER LEFT OR RIGHT HAND ACTUATOR LEVER PLACEMENT TO ALLOW LEVER PLACEMENT TO BE ON THE OPEN SIDE OF THE TOILET TO MEET HANDICAP CODE REQUIREMENTS.
- P-3 (HANDICAPPED URINAL)**
SHALL BE AN AMERICAN STANDARD ALLBROOK MODEL 6541.132. FLUSH VALVE SHALL BE SLOAN ROYAL MODEL 180-YB.
- P-4 (HANDICAPPED COUNTER TOP LAVATORY)**
SHALL BE AN AMERICAN STANDARD MODEL RONALYN MODEL 0490.011 VITREOUS CHINA SELF-RIMMING FAUCET SHALL BE A MONTERRY 5502.170 W/4" WRIST BLADE HANDLES. PROVIDE 0.5 GPM FLOW RESTRICTOR. PROVIDE PROTECTIVE INSULATION ON DRAIN AND HOT WATER LINE TO MEET HANDICAP CODE REQ. ON ALL INSTALLATIONS WHERE THE PIPING IS EXPOSED TO THE USER.
- P-5 (HANDICAPPED ELECTRIC WATER COOLER COMBINATION H/L/O)**
SHAL BE AN OASIS SPLIT LEVEL MODEL PBMSL, 7.8 GPM, 5.0 FLA AT 120 VOLT WITH A 1/5 HP COMPRESSOR.
- P-6 (FLOOR DRAIN WITH TRAP PRIMER)**
SHALL BE A JOSAM 30000-A-90 SERIES COATED CAST IRON FLOOR DRAIN. TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WELDCO INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLE, BOTTOM OUTLET, INSIDE CAULK CONNECTION AND ADJUSTABLE SATIN NIKALOY ROUND SUPER-FLO STRAINER.
- P-7 (HANDICAPPED SHOWER MIXING VALVE)**
SHOWER SHALL INCLUDE AN SPEAKMAN MODEL VS-1970-SS-3 SENTINEL MARK II REGENCY CONCEALED ANTI-SCALD BALANCED PRESSURE SHOWER VALVE AND HAND HELD SPRAY COMBINATION WITH 69" WHITE VINYL REINFORCED HOSE. ALSO INCLUDED IN THIS PACKAGE IS A COSMOPOLITAN SHOWER HEAD MODEL #S-2270-AF WITH WATER CONSERVING COMPENSATING AUTOFLOW DEVICE SET TO 2.5 CFM.
* COORDINATE FINAL SPECIFICATIONS OF SHOWER STALL WITH ARCHITECT/OWNER PRIOR TO CONSTRUCTION.
- P-8 (EXTERIOR HOSE BIBB W/HANDWHEEL)**
SHALL BE A "NIBCO" SERIES 63LS, GRAINGER STOCK NO. 5E407, 3/4" SOLID BRONZE HOSE BIBB WITH ALUMINUM HANDWHEEL.
- P-9 (HAND SINK)**
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-10 (PRE-RINSE S.S. 1 COMPARTMENT SINK)**
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-11 (PREP SINK S.S. 1 COMPARTMENT)**
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-12 (3 COMPARTMENT S.S. SINK)**
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-13 (SMALL LAB S.S. SINK)**
SHALL BE AN ELKAY MODEL BPSH-15-C STAINLESS STEEL BAR SINK WITH HI-ARC FAUCET.
- P-14 (LARGE LAB S.S. SINK)**
SHALL BE AN ELKAY LUSTERONE MODEL DLH-2222-10-C SINGLE BOWL STAINLESS STEEL SELF-RIMMING SINK WITH LK2432 HI-ARC FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING 2.0 GPM FLOW RESTRICTOR.
- P-15 (MOP SINK)**
UTILITY SINK SHALL BE A "MUSTEE" MODEL "14 UTILITUB AS MANUFACTURED ELMUSTEE & SONS, INC. TUB SHALL BE ONE-PIECE MOLDED CO-POLY-PURE COMPLETE WITH DRAIN ASSEMBLY AND FLOOR MOUNTING HARDWARE. PROVIDE A 93.600 FAUCET SET.
- P-16 (CONCESSION SINK)**
COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- P-17 (EMERGENCY SHOWER)**
SHALL BE A "THANK" MODEL B100WITH 1-1/4" WATER SUPPLY.
- P-18 (FLOOR SINK W/SEDIMENT BUCKET W/2" CONNECTION)**
SHALL BE A JOSAM 4800-2-31 SERIES WITH A "SUPERFLOW 8-1/2" TOP", FLOOR SINK SHALL BE A SQUARE CAST IRON 6-1/4" DEEP SUPERFLOW SEPARATOR FLOOR SINK WITH ACID-RESISTING INTERIOR, DOUBLE DRAINAGE FLANGE. FLOOR SINK SHALL BE PROVIDED WITH AN OPTIONAL STAINLESS STEEL BUCKET AND A HALF GRATE.
- P-19 (FLOOR SINK W/SEDIMENT BUCKET W/3" CONNECTION)**
SHALL BE A JOSAM 4800-3-31 SERIES WITH A "SUPERFLOW 8-1/2" TOP", FLOOR SINK SHALL BE A SQUARE CAST IRON 6-1/4" DEEP SUPERFLOW SEPARATOR FLOOR SINK WITH ACID-RESISTING INTERIOR, DOUBLE DRAINAGE FLANGE. FLOOR SINK SHALL BE PROVIDED WITH AN OPTIONAL STAINLESS STEEL BUCKET AND A HALF GRATE.
- P-20 (HUB DRAIN - INDIRECT WASTE FUNNEL)**
SHALL BE A "ZURN" 2-326-2" 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.
- P-21 (HOT WATER RECIRCULATING PUMP)**
SHALL BE A TEEL MODEL 1P903 HOT WATER RECIRCULATING PUMP, 1/6 HP MOTOR RUNNING AT 1725 RPM AND 115 VOLTS SINGLE PHASE INCOMING POWER.
- P-22 (GAS WATER HEATER - DIRECT VENT)**
SHALL BE A LOCHINVAR "TURBO CHARGER" MODEL TNA 301-100 GAS FIRED COMMERCIAL WATER HEATER, 300,000 BTU INPUT TO PRODUCE 341 GALLONS PER HOUR OF HOT WATER AT 100 DEGREE RISE. INSULATED GLASSLINED 100 GALLON STORAGE TANK, 5 YEAR LIMITED WARRANTY ON STORAGE TANK AGAINST TANK FAILURE. WATER HEATER SHALL MEET OR EXCEED ALL APPLICABLE SECTIONS OF ASHRAE SECTIONS 90-80A AND NAECA REQUIREMENTS FOR ENERGY CONSERVATION.
- 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.

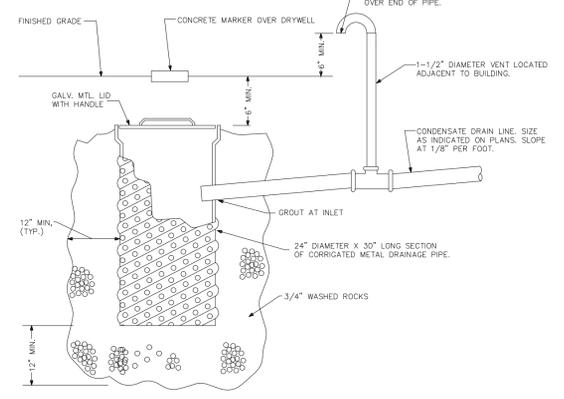
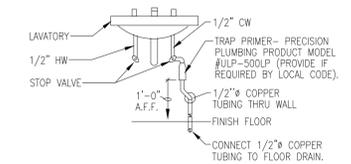


1 SANITARY ISOMETRIC
NO SCALE

GENERAL PLUMBING NOTES

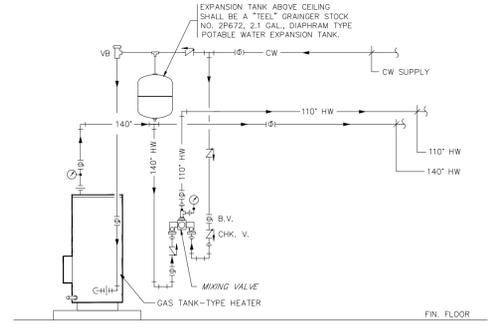
- Drawings are diagrammatic and shall not be scaled. Refer to architectural plans and elevations for exact location of all plumbing fixtures, equipment, etc. Plumbing contractor shall furnish and install all items required for a complete and acceptable working installation.
- All work and materials shall comply with the latest edition of the National, State, and all local codes and Ordinances having jurisdiction.
- 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.
- All material shall be new.
- 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.
- All required insurance shall be provided for protection against public liability or property damage for the duration of the work.
- The plumbing contractor shall secure and pay all permit fees, inspections, and tests.
- All work shall be coordinated with other trades to avoid interference with the progress of construction.
- 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.
- Verify location, size and inverts of all existing utilities prior to start of construction. Advise architect/engineer of any discrepancies.
- All fixtures shall be provided with readily accessible stops.
- Water piping shall be type "L" copper for up to and including 2" and shall be type "K" for 2 1/2" and larger.
- Soil, wastes and vent piping shall be PVC #40 DMV. 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.
- 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 oil condensate piping for air conditioning units as required per local codes.
- Furnish and install approved air chambers at each plumbing fixture and PDI approved shock arresters on main lines and risers.
- Provide chrome plated combination covered plate and cleantout plug for all wall cleantouts, Josam 58890.
- Insulate lines as follows:
a) Hot and Cold water supply and return: 1" thick fiberglass.
b) Condensate piping: 1/2" thick armafex.

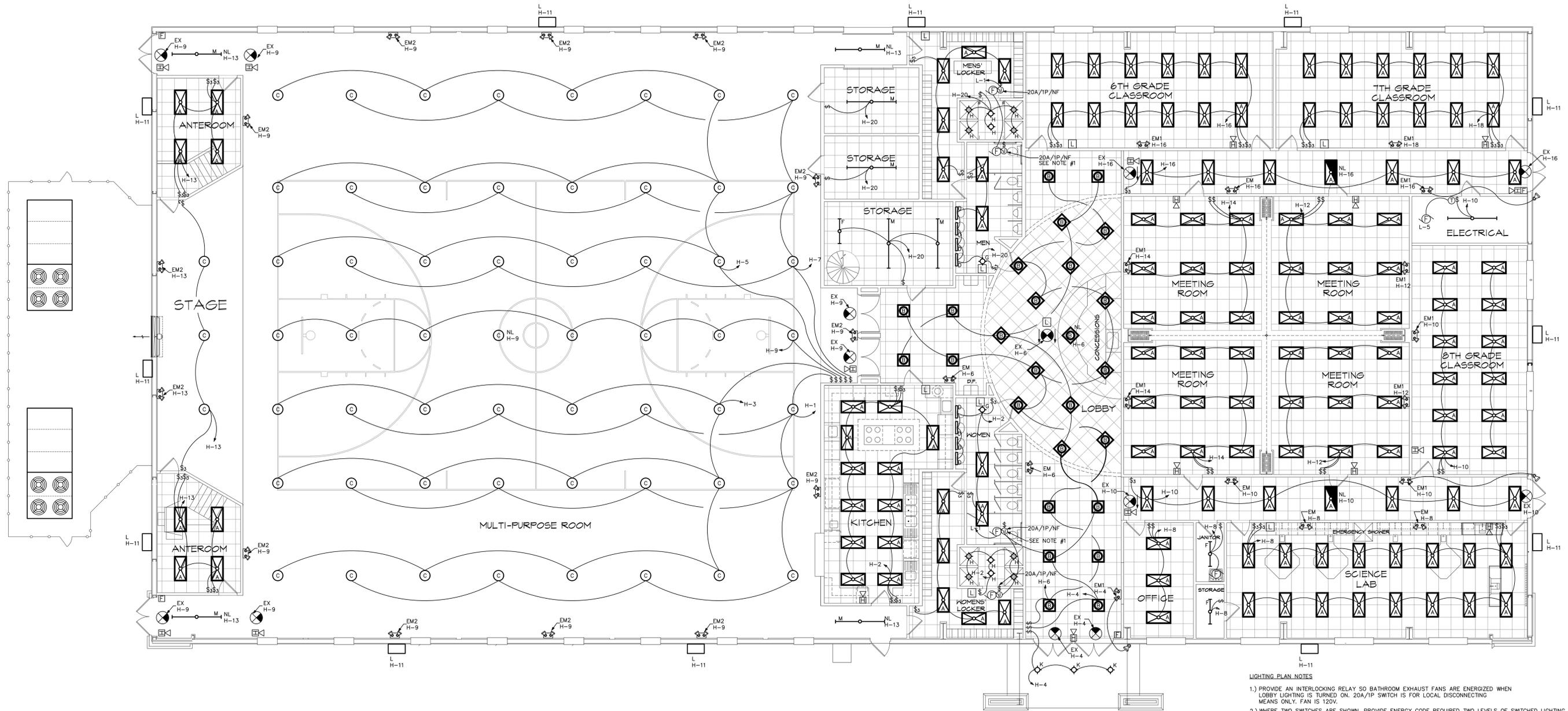
2 TRAP PRIMER DETAIL
NO SCALE



4 DRYWELL DETAIL
NO SCALE

3 WATER HEATER PIPING DETAIL
NO SCALE





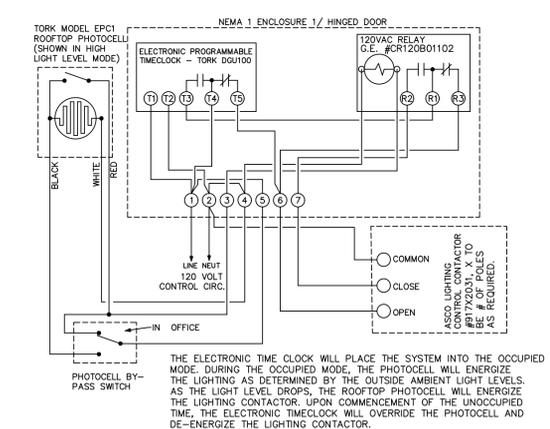
- LIGHTING PLAN NOTES**
- 1.) PROVIDE AN INTERLOCKING RELAY SO BATHROOM EXHAUST FANS ARE ENERGIZED WHEN LOBBY LIGHTING IS TURNED ON. 20A/1P SWITCH IS FOR LOCAL DISCONNECTING MEANS ONLY. FAN IS 120V.
 - 2.) WHERE TWO SWITCHES ARE SHOWN, PROVIDE ENERGY CODE REQUIRED TWO LEVELS OF SWITCHED LIGHTING CONTROL. CONTRACTOR TO PROVIDE SEPARATELY SWITCHED BALLASTS, OR ALTERNATELY SWITCH ENTIRE LIGHT FIXTURE AS FIELD CONDITIONS REQUIRE.
 - 3.) ALL EMERGENCY EGRESS LIGHTS, EXIT SIGNS AND SPECIFIED NIGHT LIGHTS ARE TO BE NON-SWITCHED ON THE CIRCUITS INDICATED.

1 FLOOR PLAN - LIGHTING

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

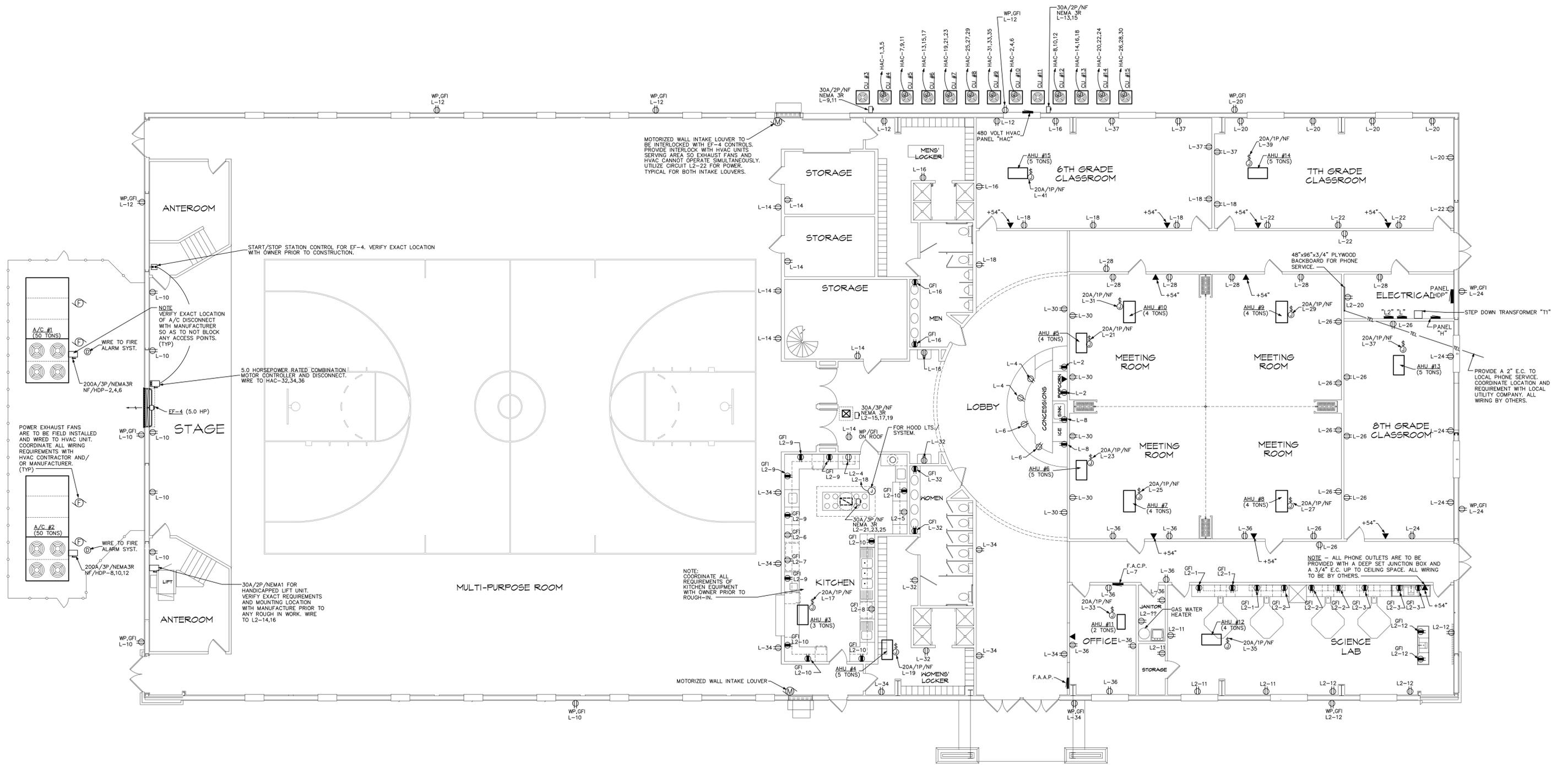
LIGHTING FIXTURE SCHEDULE							
LABEL	TYPE OF FIXTURE	FINISH	LENS TYPE	VOLTAGE	LAMP	MANUFACTURER & MODEL NO.	REMARKS
A	RECESSED 2'x4' TROFFER	WHITE	PRISMATIC	277	(4) 32W T8	LITHONIA 2SPG-432-FWA12-277	
B	RECESSED HID	WHITE	PRISMATIC	277	(1) 175W MH	LITHONIA LAH-175M-12FW-173-277	
C	HID HIGH BAY	ALUMINIUM	BOROSILICATE	277	(1) 250W MH	LITHONIA TPGE-250M-PG166LE-S	
D	FLUORESCENT WALL LIGHT	WHITE	PRISMATIC	277	(2) 17W T8	LITHONIA WC-217-A12-277	
EM	EMERGENCY EGRESS	WHITE			INCLUDED	LITHONIA ELM2	W/ BATTERY BACKUP
EM1	EMERG EGRESS w/ REM HEAD	WHITE		277	INCLUDED	LITHONIA 6ELM2	W/ MODEL NX, PAR38, NEMA 3R REMOTE HEAD
EM2	EMERGENCY EGRESS	GREY		277	INCLUDED	LITHONIA ELT24-H-LD	VERIFY MOUNTING HEIGHT WITH ARCHITECT/OWNER
EX	EXIT SIGN	WHITE	RED	277	INCLUDED	LITHONIA LE-SW2R-120/277-ELN	W/ BATTERY BACKUP
F	4' FLUORESCENT STRIP	WHITE		277	(2) 32W T8	LITHONIA C-232-277	
G	RECESSED FLUORESCENT	WHITE		277	(2) 26W DTT	LITHONIA AF-2/26DTT-BAR-277	
H	RECESSED FLUORESCENT	WHITE	FLAT FRESNEL	277	(2) 26W DTT	LITHONIA LGF-2/26DTT-9RW-FFL	WET LOCATION LISTED
K	RECESSED HID DOWNLIGHT	WHITE	FLAT FRESNEL	277	(1) 175W MH	LITHONIA LGH-175M-12RW-FFL-277	WET LOCATION LISTED
L	EXTERIOR HID WALL PACKS	BRONZE	POLYCARBONATE	277	(1) 250W MH	LITHONIA TWP-250M-TB	
M	8' FLUORESCENT STRIP	WHITE		277	(4) 32W T8	LITHONIA C-432-277	

ELECTRICAL SYMBOLS LEGEND			
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
⊕	DUPLEX RECEPTACLE, MTD. +18" AFF	⊖	TRANSFORMER - SIZE AS NOTED
⊕	240 VOLT RECEPTACLE (HT. AS REQ.)	□	PANEL - SIZE AS NOTED
⊕	QUADRUPLX 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 +47"	⊕	RECESSED MOUNTED LIGHTING FIXTURE
⊕	JUNCTION BOX, FLUSH IF POSSIBLE	⊕	B DESIGNATES FIXTURE TYPE
⊕	TELEPHONE / DATA OUTLET +18"	⊕	HIGHBAY HID LIGHTING FIXTURE
⊕	DED. COMPUTER TERM. OUTLET +18"	⊕	B DESIGNATES FIXTURE TYPE
⊕	DISCONNECT SWITCH W/ STARTER	⊕	FLUORESCENT LIGHTING FIXTURE
⊕	DISCONNECT SWITCH	⊕	B DESIGNATES FIXTURE TYPE
⊕	FLR. MTD. FLUSH DUPLEX RECEPTACLE	⊕	FLUORESCENT STRIP LIGHTING FIXTURE
⊕	FLR. MTD. FLUSH QUAD. RECEPTACLE	⊕	B DESIGNATES FIXTURE TYPE
⊕	FLR. MTD. FLUSH PHONE/DATA OUTLET	⊕	ISOLATED GROUND
⊕	FLR. MTD. FLUSH COMPUTER OUTLET	⊕	WP WEATHER-PROOF
⊕	AREA SMOKE DETECTOR	⊕	BC BELOW COUNTER
⊕	HEAT DETECTOR	⊕	BFG BELOW FINISH GRADE
⊕	DUCT SMOKE DETECTOR	⊕	GFI GROUND FAULT INTERRUPTER
⊕	FIRE ALARM MAN. PULL STATION +47"	⊕	AFF ABOVE FINISHED FLOOR
⊕	HORN WITH STROBE LIGHT, MTD. +80"	⊕	EWC ELECTRIC WATER COOLER
⊕	STROBE LIGHT ONLY, MTD. +80"	⊕	ASW ABOVE SHOW WINDOW
		⊕	BSW BELOW SHOW WINDOW
		⊕	FACP FIRE ALARM CONTROL PANEL
		⊕	FAAP FIRE ALARM ANNUNCIATOR PANEL



2 LIGHTING CONTROL

NO SCALE



1 FLOOR PLAN - POWER
 SCALE: 1/8"=1'-0"

