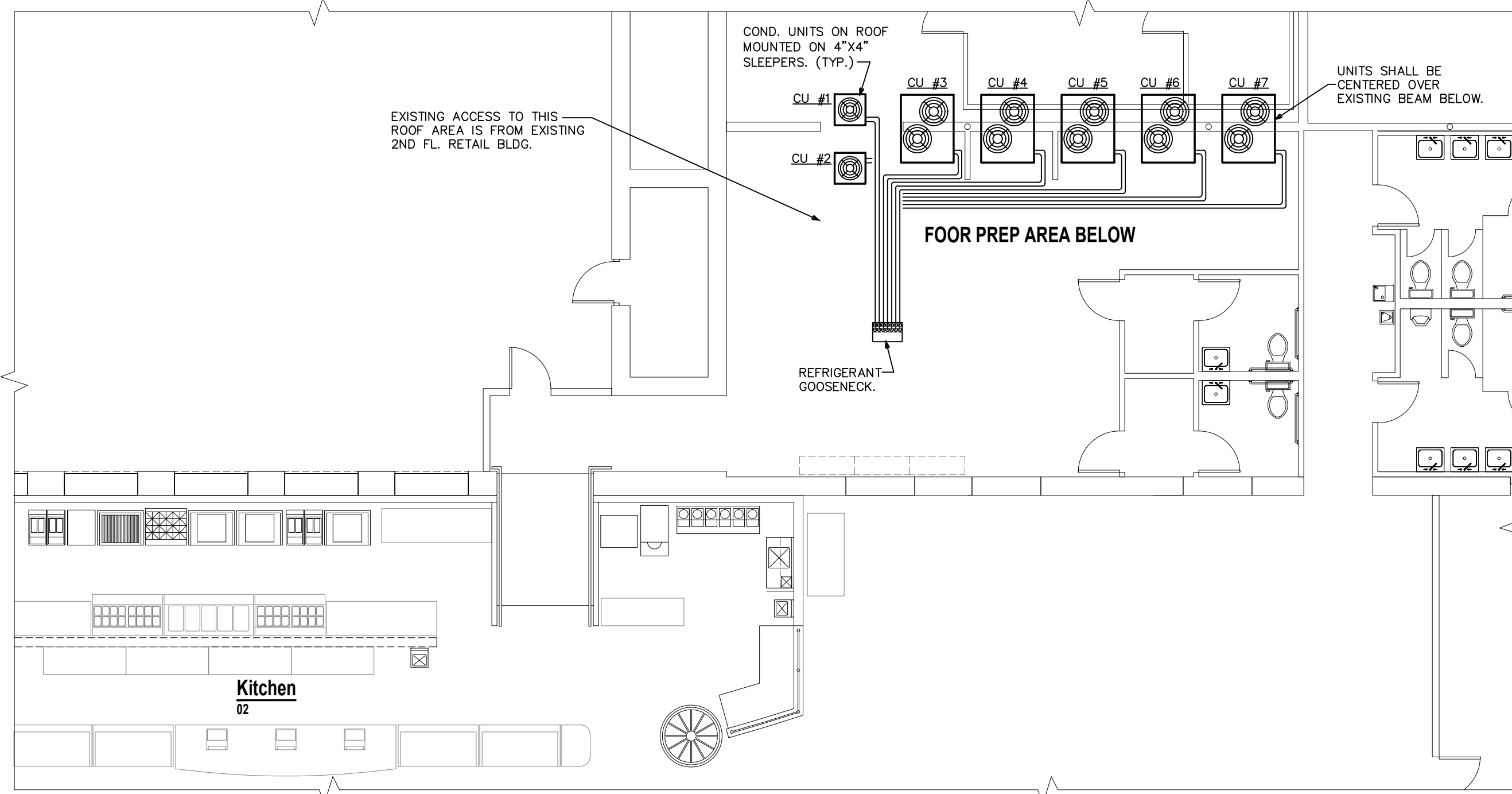


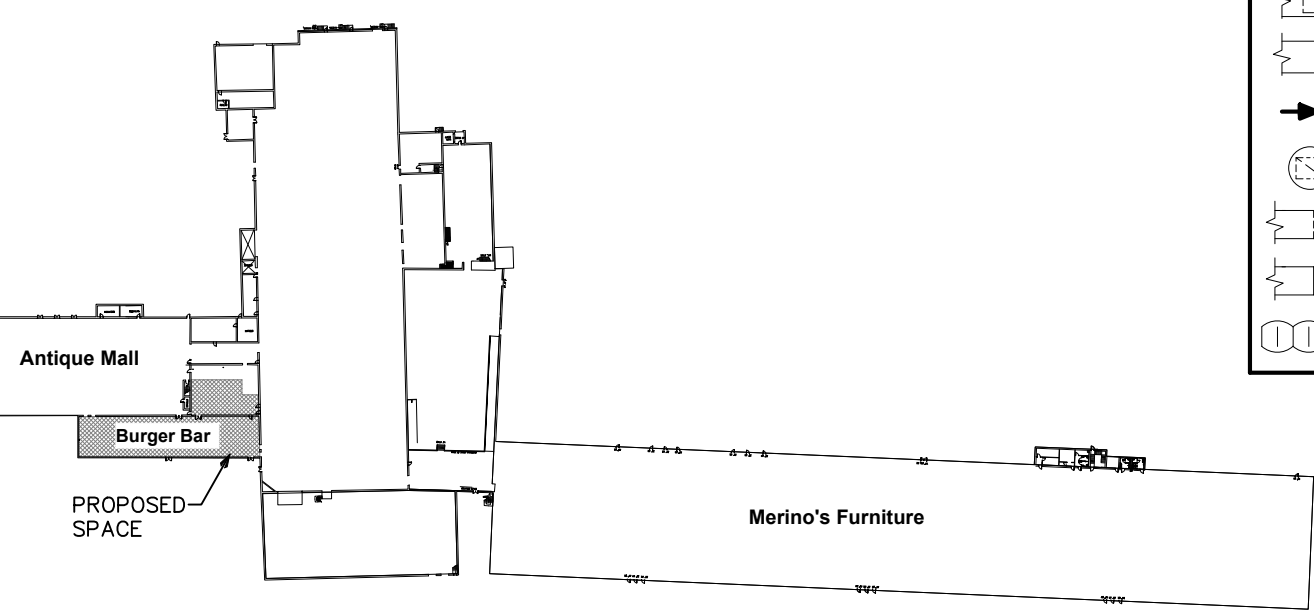


2 PART. ROOF PLAN - MECHANICAL
SCALE: 1/8"=1'-0"

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"	0 - 125	12X12 LOUVERED FACE
B	TITUS TDC-AA	6"	0 - 125	24X24 LOUVERED FACE
C	TITUS TDC-AA	8"	130 - 200	24X24 LOUVERED FACE
D	TITUS TDC-AA	10"	205 - 340	24X24 LOUVERED FACE
E	TITUS PCS-AA	10"	205 - 340	24X24 PERFORATED FACE
F	TITUS S300FS	14X6	255 - 400	DIRECT SPIRAL MOUNTED REGISTER
G	TITUS S300FS	20X6	405 - 500	DIRECT SPIRAL MOUNTED REGISTER
H	TITUS S300FS	24X6	505 - 600	DIRECT SPIRAL MOUNTED REGISTER

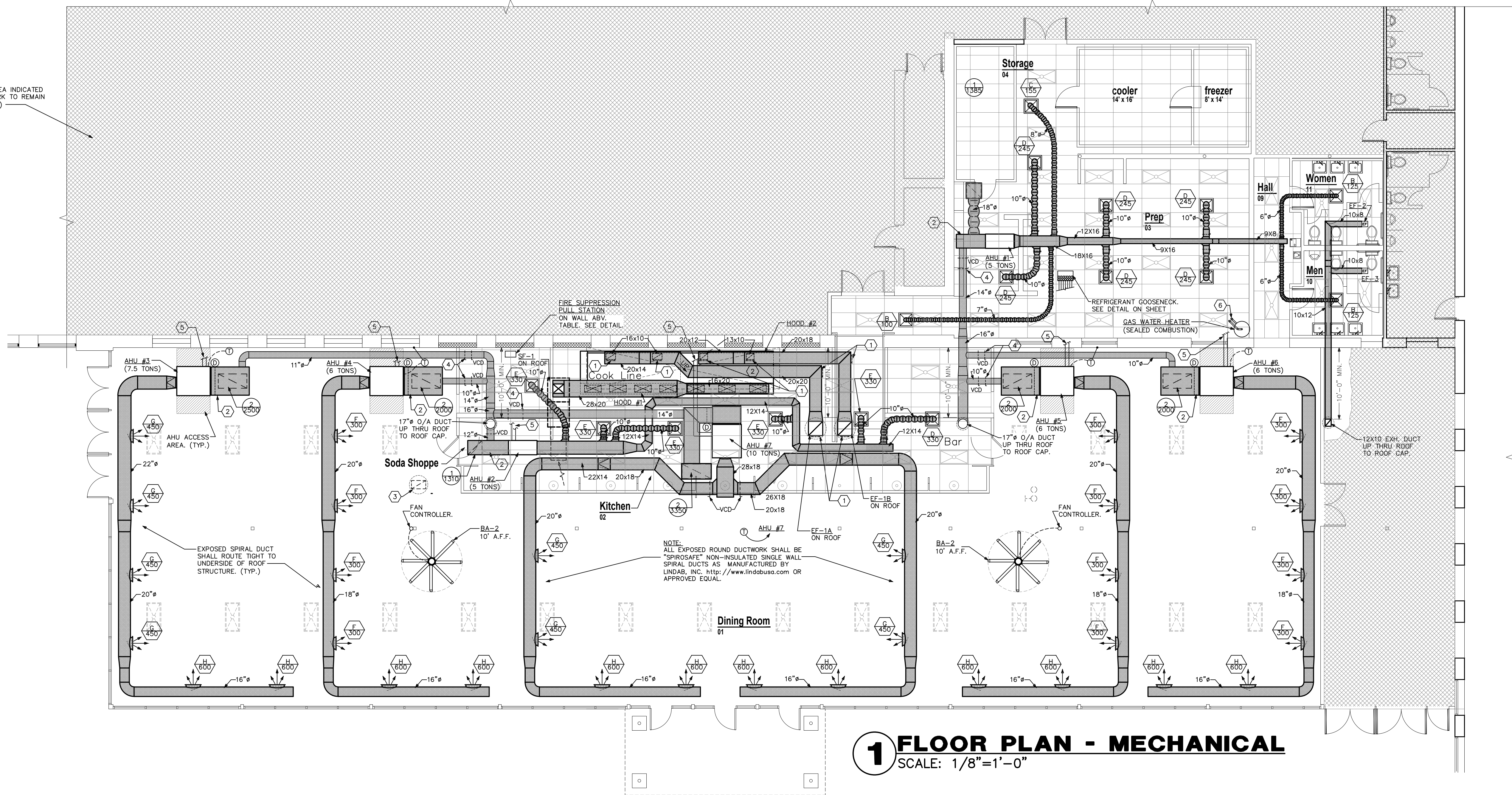
RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR GRILLE TYPE		FILTER SHALL BE PROVIDED AT UNIT.		
DESIGNATES CFM QUANTITY FOR GRILLE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 50F	24X24	0 - 2500	LOUVER FACE
2	TITUS 50F	24X48	0 - 5000	LOUVER FACE

H.V.A.C. ABBREVIATION LEGEND			
A/C	AIR CONDITIONER	REV.	REVISION
DN.	DOWN	N.T.S.	NOT TO SCALE
EXH.	EXHAUST	MFR.	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	REG.	REGISTER
TYP.	TYPICAL	C.U.	CONDENSING UNIT
A.H.U.	AIR HANDLING UNIT	F.D.	FIRE DAMPER
D.G.	DOOR GRILLE	DISP.	DISPOSABLE
V.C.D.	VOLUME CONTROL DAMPER	F/A	FRESH AIR
S.P.	SAFE PAN	C.D.	CONDENSATE DRAIN

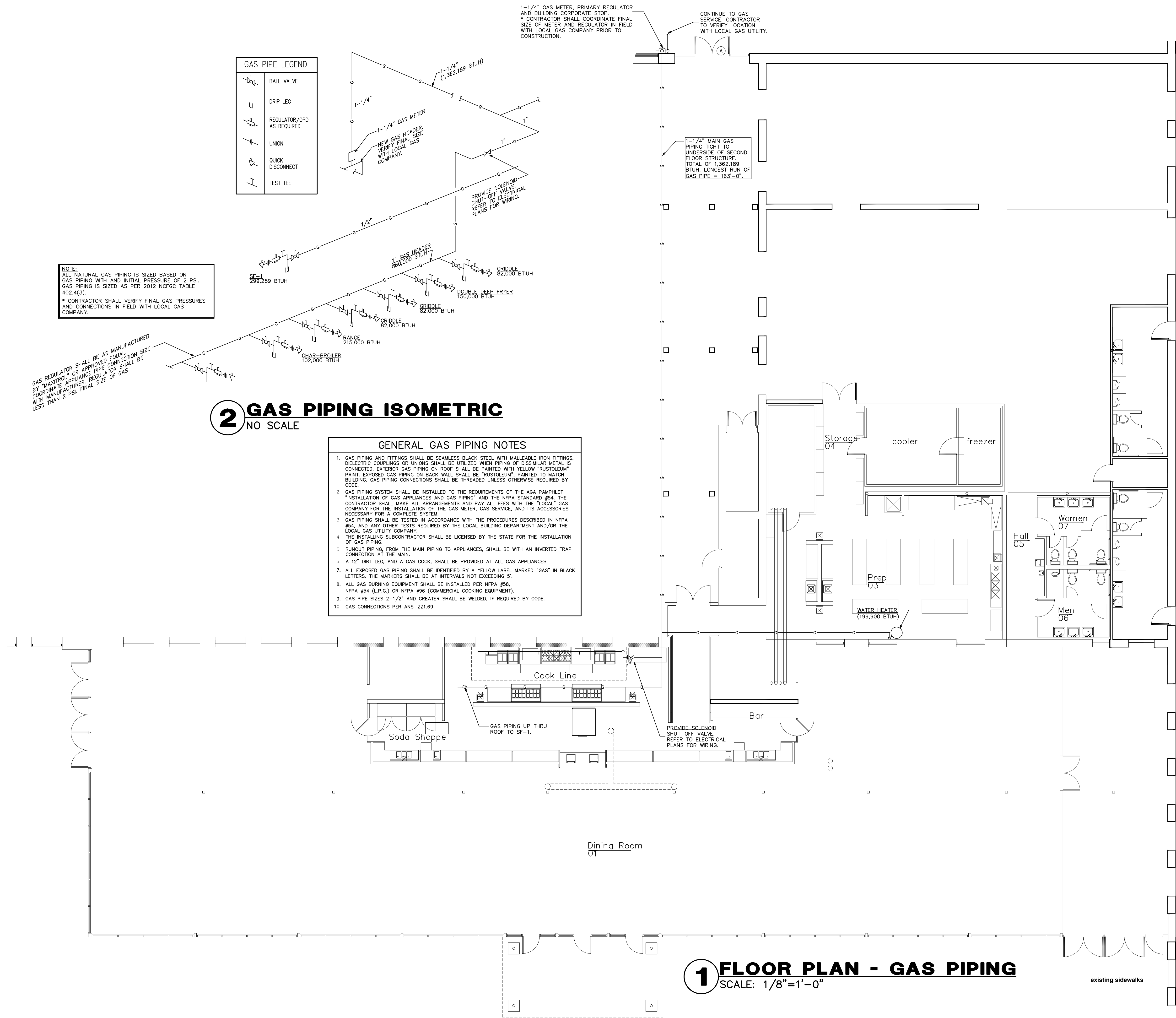


HVAC SYMBOLS LEGEND	
①	THERMOSTAT, MTD +47" AFF
⑤	EXHAUST FAN
⑥	SECTION "A"- "A"
⑩	REMOTE BULB SENSOR
⑪	DUCT SMOKE DETECTOR
⑫	TRANSITION
⑬	TURNING VANE
⑭	45° BRANCH DUCT TAKE-OFF
⑮	FIRE DAMPER
⑯	VOLUME CONTROL DAMPER
⑰	RETURN REGISTER
⑱	SUPPLY DIFFUSER
⑲	RETURN AIR GRILLE
⑳	SUPPLY REGISTER
㉑	DUCTWORK TRANSITION
㉒	ROOF MTD. EXH. FAN
㉓	DUCT TURN DOWN
㉔	DUCT TURN UP
㉕	FLEXIBLE DUCT

NOTE:
HATCHED AREA INDICATED
EXISTING WORK TO REMAIN
AS IS. (N.I.C.)



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



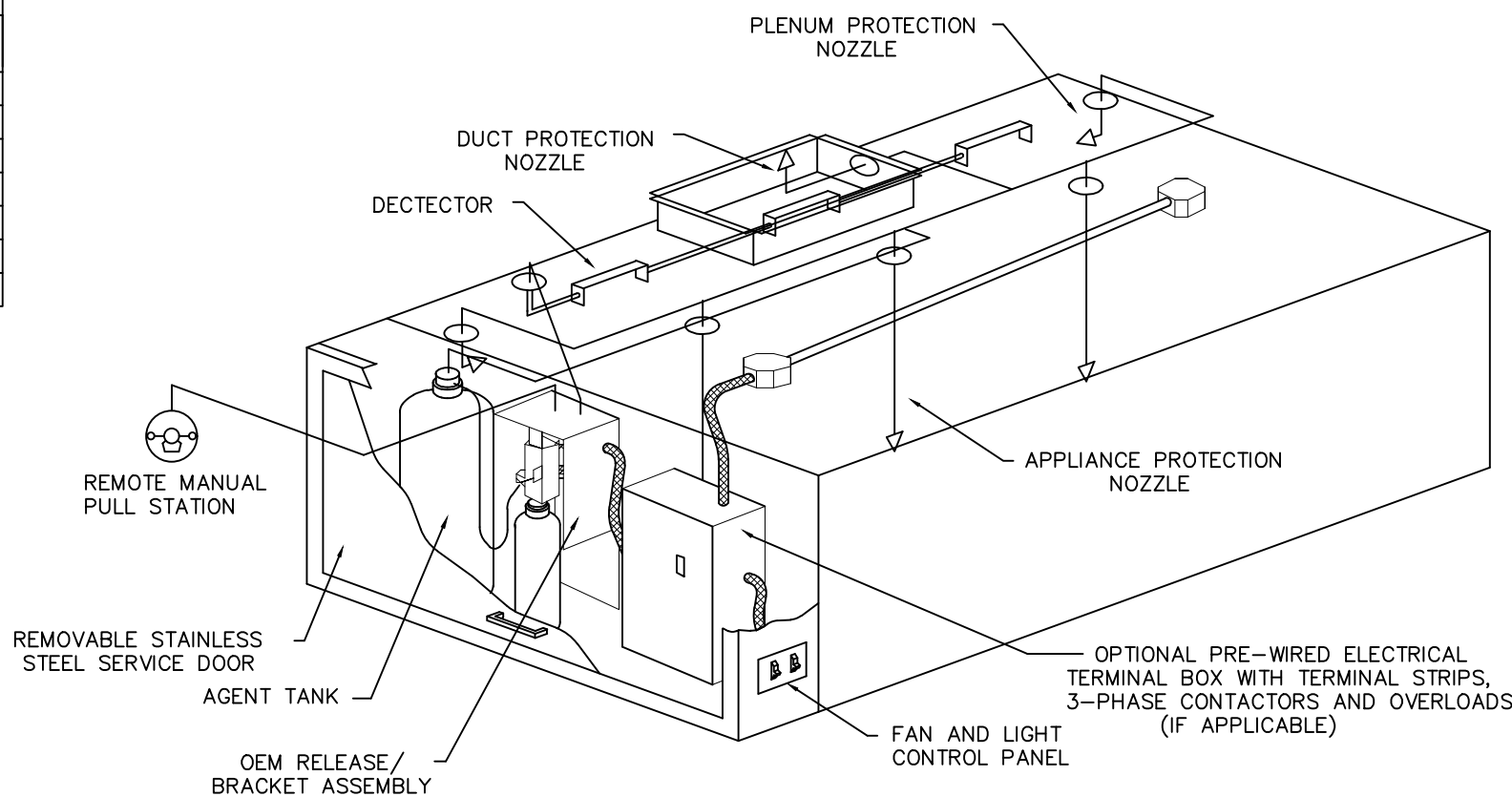


HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)				TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.		
						WIDTH	LENGTH	DIA.	CFM			S.P.	END TO END	ROW
1	ITEM 15	5424 ND-2-PSP-F	13' 0.00"	600 Deg.	3510	10"	16"	1755	-0.686"	2668	304 SS Where Exposed	LEFT	ALONE	
2	ITEM 15	5424 ND-2-PSP-F	13' 0.00"	600 Deg.	2860	10"	13"	1430	-0.560"	2431	304 SS Where Exposed	RIGHT	ALONE	

HOOD NO.	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WIGHT	
		TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 9 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	FIRE SYSTEM		ELECTRICAL			SWITCHES
											TYPE	SIZE	MODEL #			QUANTITY
1	ITEM 15	Coptrate Solo Filter	9	20"	16"	93% See Filter Spec.	7	L55 Series E26	NO	Left	Ansul R102	3.0/3.0/3.0	SC-321110MA	1 Light 1 Fan	YES	951 LBS
2	ITEM 15	Coptrate Solo Filter	9	20"	16"	93% See Filter Spec.	7	L55 Series E26	NO						YES	761 LBS

HOOD NO.	TAG	OPTION					
1	ITEM 15	FIELD WRAPPER	18.00"	High	Front, Left		
		BACKSPLASH	122.00"	High X	360.00" Long	304 SS Vertical	
		LEFT VERTICAL END PANEL	27"	Top Width, 21"	Bottom Width, 80"	High Insulated 4"	
		Legs 304 SS					
2	ITEM 15	FIELD WRAPPER	18.00"	High	Front, Right		
		RIGHT VERTICAL END PANEL	27"	Top Width, 21"	Bottom Width, 80"	High Insulated	
		4" Legs 304 SS					

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)			CFM	S.P.
							WIDTH	LENG.	DIA.		
1	ITEM 15	Front	168"	18"	6"	MUA	12"	28"		667	0.169"
						MUA	12"	28"		667	0.169"
						MUA	12"	28"		667	0.169"
						MUA	12"	28"		667	0.169"
2	ITEM 15	Front	156"	18"	6"	MUA	12"	28"		667	0.169"
						MUA	12"	28"		810	0.244"
						MUA	12"	28"		810	0.244"
						MUA	12"	28"		810	0.244"



TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
EF-1A	NCA18FA	3510	1.200	999	1.500	1.204Q	3	208	5.0	176	14.7
EF-1B	NCA16FA	2860	1.100	1104	1.500	1.004Q	3	208	5.0	153	13.2

TAG	FAN UNIT MODEL #	BLOWER	HOUSING	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES	BURNER EFFICIENCY(%)
SF-1	A2-D.500-G15	G15-PB	A2-D.500	5099	0.500	1031	5.000	3.4220	3	208	15.0	857	20	92

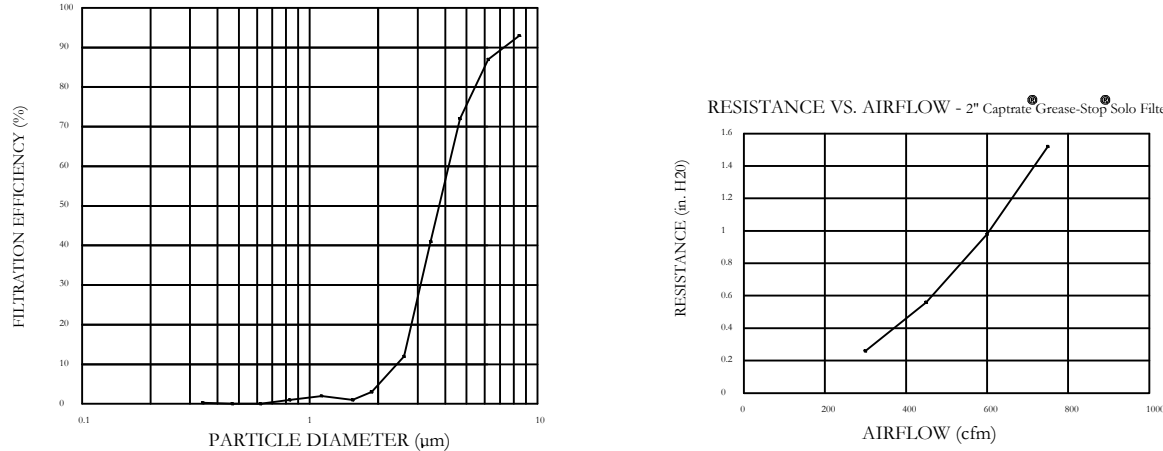
TAG	ACTUAL AIR DENSITY?	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
SF-1	NO	299289	275346	50 deg F	7 in. w.c. - 14 in. w.c.	Natural

TAG	OPTION (Qty. - Descr.)
EF-1A	1 - Grease Box
EF-1B	1 - Grease Box
	1 - AC Interlock Relay - 24VAC Coil
	1 - Motorized Backdraft Damper for A2-D Housing
SF-1	1 - Low Fire Start
	1 - Inlet Pressure Gauge, 0-35"
	1 - Manifold Pressure Gauge, -5 to 15" wc

TAG	EXHAUST			SUPPLY			
	GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
EF-1A	YES						
EF-1B	YES						
SF-1						YES	

ON FAN	WEIGHT	ITEM	SIZE		
EF-1A	34 LBS	Curb	26.500"W x 26.500"L x 26.000"H	Vented	Hinged
EF-1B	34 LBS	Curb	26.500"W x 26.500"L x 26.000"H	Vented	Hinged
SF-1	76 LBS	Curb	31.000"W x 79.000"L x 15.000"H	Insulated	

FILTER COLLECTION EFFICIENCY 2" Caprate Grease-Stop Solo Filter



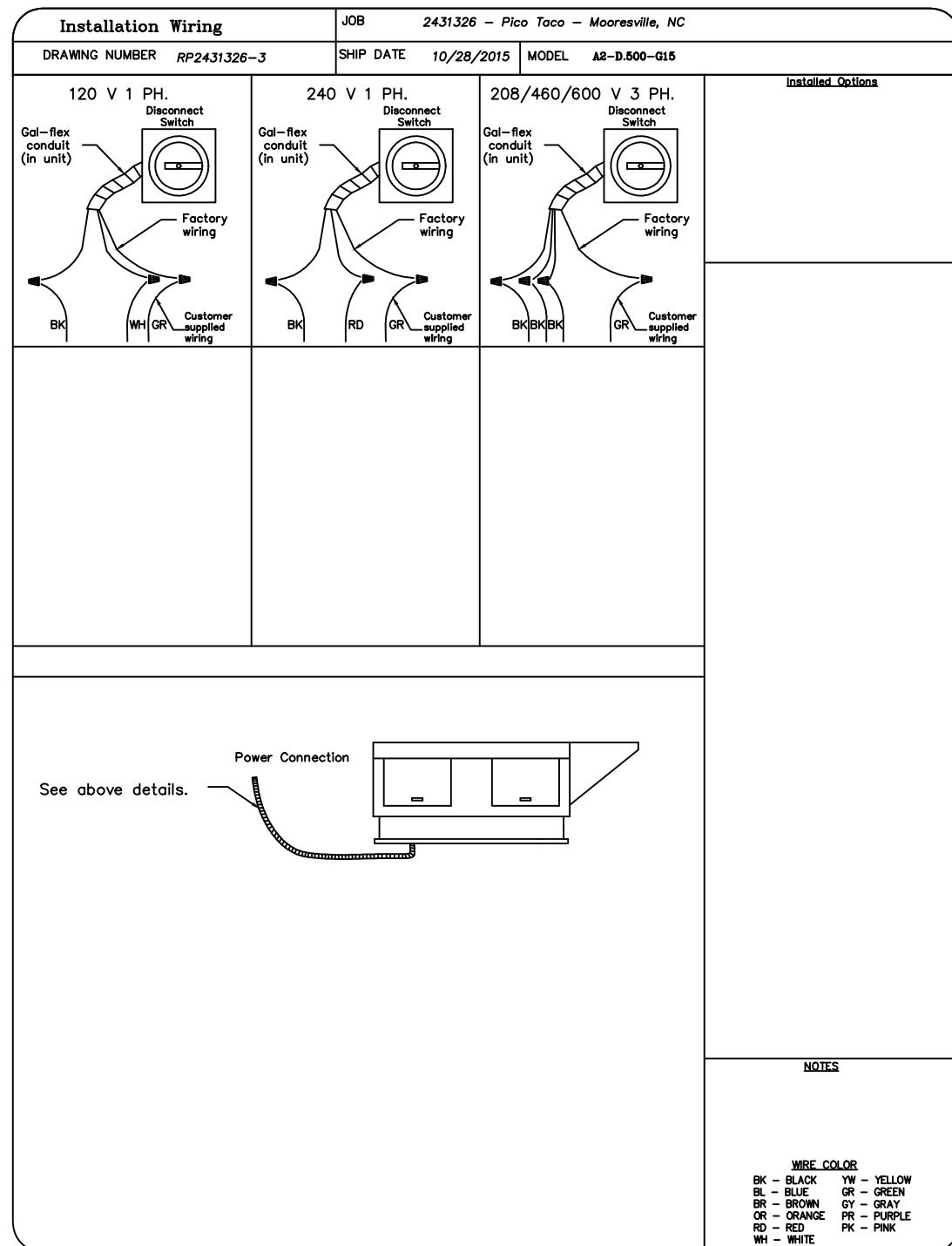
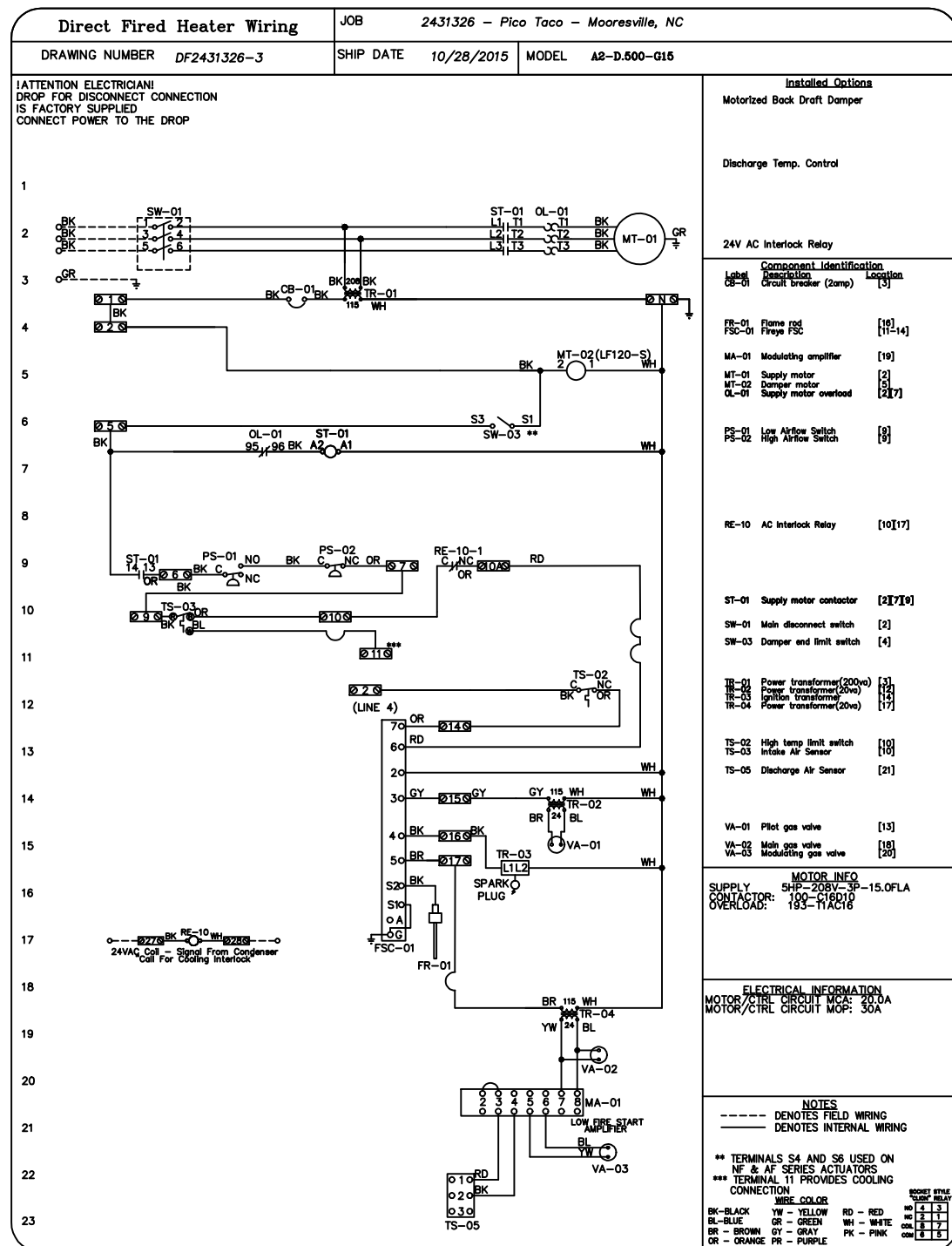
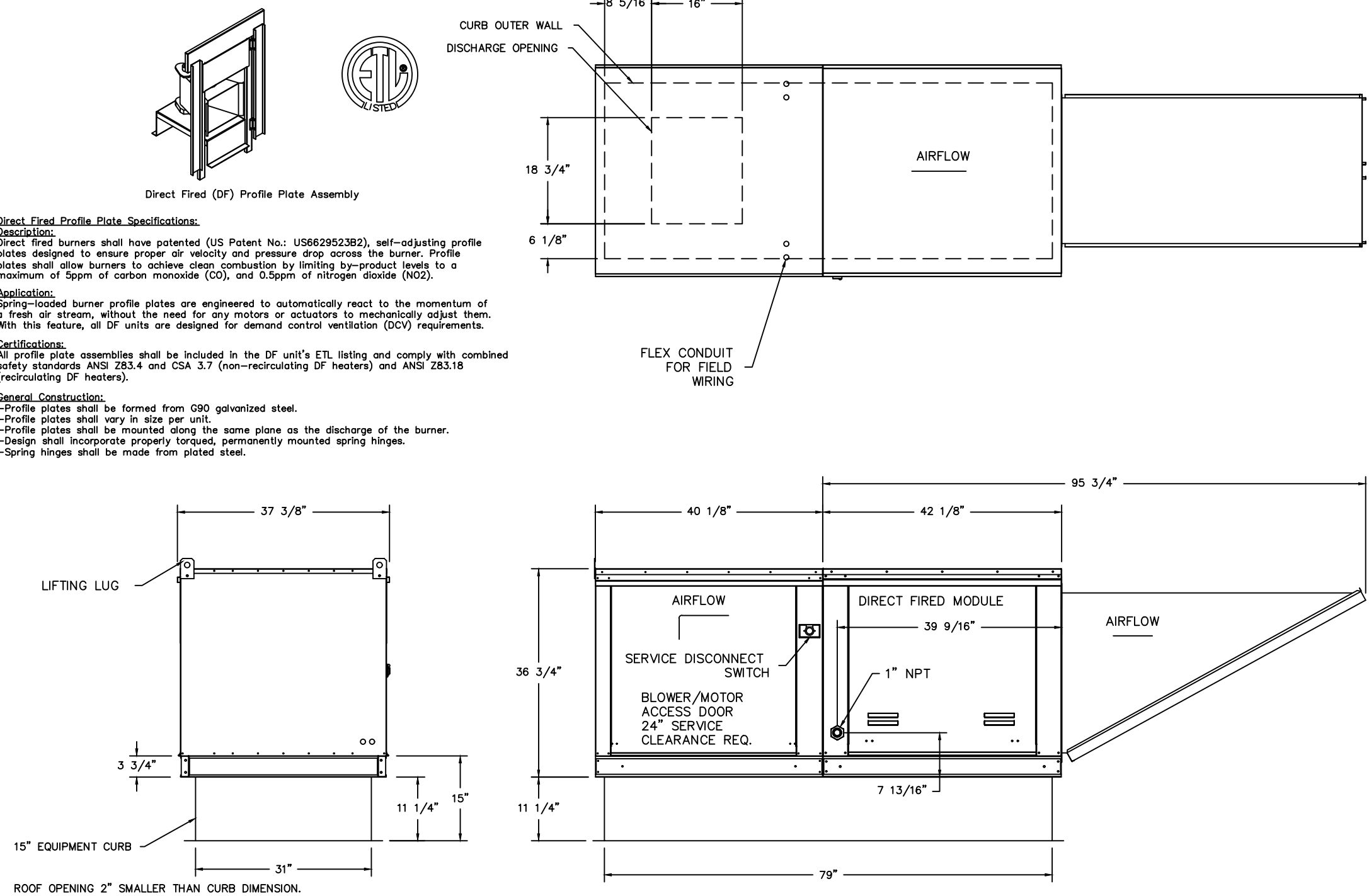
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)



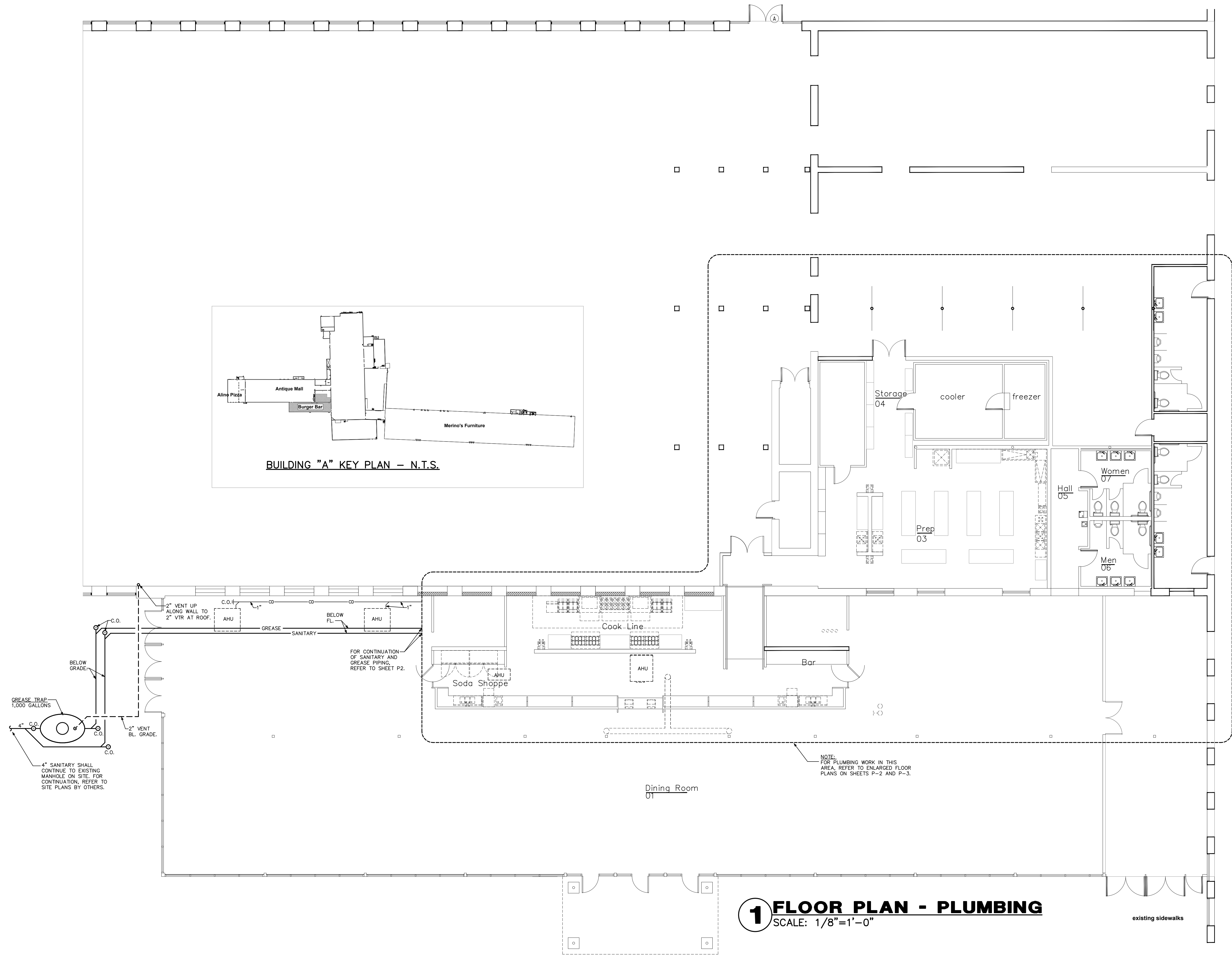
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" BLOWER
2. INTAKE HOOD WITH EZ FILTERS
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
4. COOLING INTERLOCK RELAY: 24VAC COIL, 120V CONTACTS. LOOKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
5. MOTORIZED GAS SHUT DOWN DAMPER 22"x22"x24" FOR SIZE 2 STANDARD & MODULAR DIRECT FIRED HEATERS W/EXTENDED SHIRT STANDARD VULCANIZED CONSTRUCTION. 1" RE-GRANULE, LEFT/RS ACTUATOR INCLUDED
6. HIGH FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
7. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
8. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 25°F. TEMP. RISE = 50°F.
BTU's CALCULATED OFF STANDARD AIR DENSITY
OUTPUT BTU's AT ALTITUDE OF 0.0 ft. = 275346
INPUT BTU's AT ALTITUDE OF 0.0 ft. = 299289



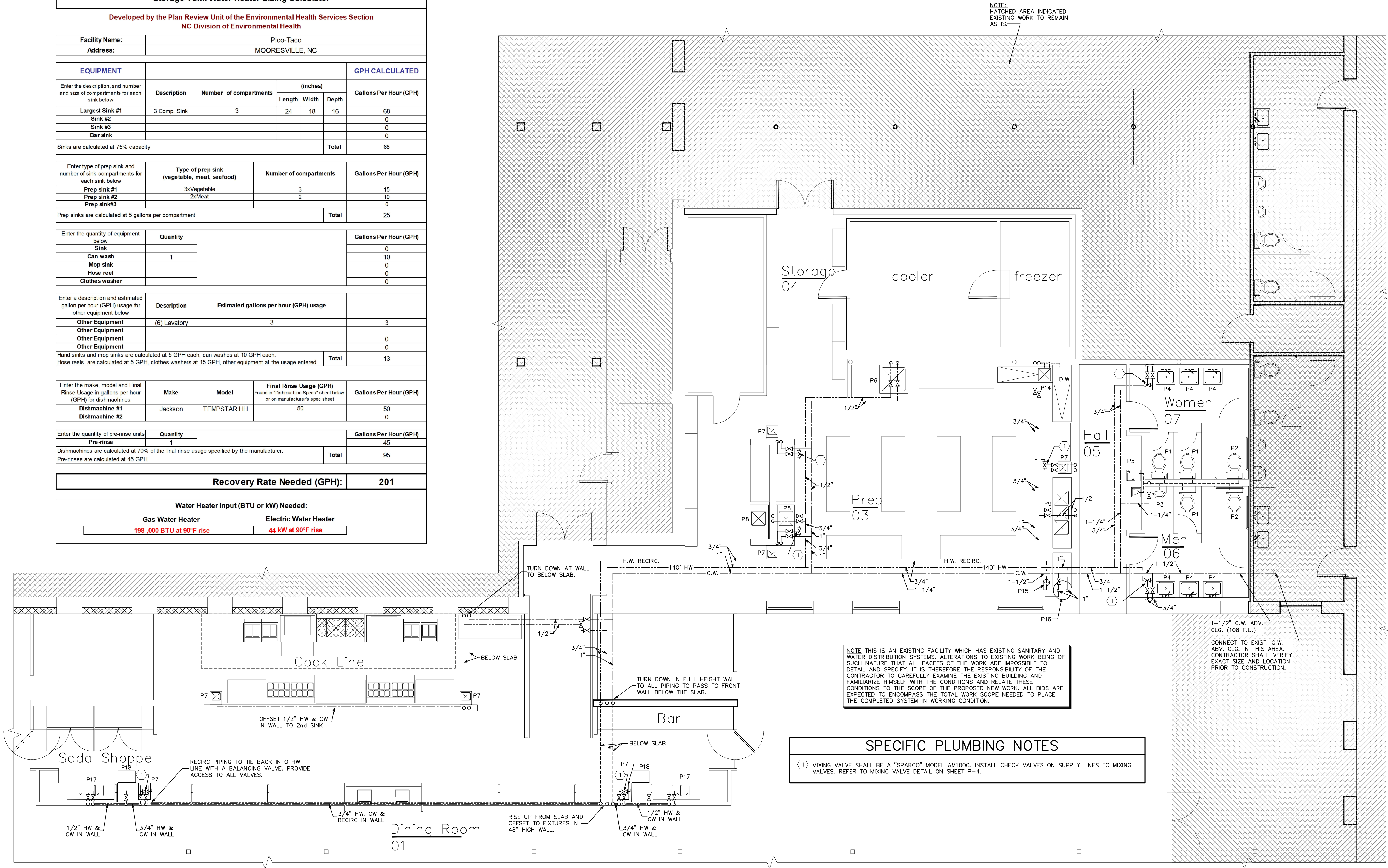
1. EXHAUST HOODS SHALL BE CONSTRUCTED OF 18 GAUGE .430 STAINLESS STEEL FOR ALL SURFACES EXPOSED TO THE AIRSTREAM AND 18 GAUGE GALVANIZED STEEL FOR OTHER SURFACES. ALL SEAMS AND JOINTS SHALL HAVE A LIQUID TIGHT U/L APPROVED CONTINUOUS EXTERNAL WELD.
2. ENTIRE SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH NATIONAL SANITATION FOUNDATION STANDARDS, NFPA--96, NFPA-17--A, AND ALL GOVERNING CODES.
3. EXHAUST HOODS SHALL BE PROVIDED WITH A ANSUL R-102 AUTOMATIC FIRE EXTINGUISHING SYSTEM FOR PROTECTION OF THE EXHAUST HOOD, FLENUM, COOKING FILTERS, EXHAUST DUCT AND COOKING EQUIPMENT. THE SYSTEM SHALL EMPLOY A LIQUID CHEMICAL EXTINGUISHMENT. THE SYSTEM SHALL BE ARRANGED TO SHUT OFF THE SOURCE OF COOKING HEAT AUTOMATICALLY UPON SYSTEMS OPERATING. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA--96, NFPA-17--A AND ACCORDING TO MANUFACTURERS PRINTED INSTALLATION PROCEDURES. EACH HOOD SHALL HAVE A SEPARATE FIRE EXTINGUISHING SYSTEM WHICH WILL OPERATE EFFECTIVELY WITH OR WITHOUT FANS OPERATING.
4. THE INSTALLER OF THE EXHAUST HOOD AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BRIEF OWNER IN ITS OPERATION.
5. EXHAUST AND SUPPLY FANS OF EACH HOOD SHALL BE INTERLOCKED. PROVIDE ONE LIGHT SWITCH AND ONE FAN SWITCH ON THE FACE OF EACH GREASE HOOD.
6. GREASE FILTERS TO BE THE GREASE ELIMINATOR SELF BALANCING TYPE U.L. APPROVED.
7. EXHAUST HOOD DUCTWORK OFFSETS TO GREASE EXHAUST FANS FROM HOOD LOCATION SHALL BE MADE WITH (2) - 45° ELBOWS. TRANSITION TO FULL SIZE OF FAN CONNECTION AT CURB.
8. U.L. RANGE HOOD: MATERIAL: 18 GAUGE STAINLESS STEEL CONSTRUCTION ON EXPOSED SURFACES 18 GA. GALV. ON EXH. FLENUM ALL CONTINUOUS EXTERNAL LIQUID TIGHT WELDS, POLISHED. FILTERS U/L PLASSED BAFFLE TYPE. SET IN HOOD @ 45 DEGREE ANGLE. INCANDESCENT LIGHT FIXTURES U/L LISTED FOR USE IN COMMERCIAL COOKING RANGE. HANG BELOW FILTERS WITH REMOVE--ABLE GREASE CONTAINER, LIQUID VOLUME LESS THAN 1 QUART. ALL IN COMPLIANCE WITH NFPA #96 AND LOCAL BUILDING CODES.
9. RANGE HOOD EXHAUST DUCTS MATERIAL: 16 GAUGE GALVANIZED STEEL CONSTRUCTION, ALL CONTINUOUS LIQUID TIGHT EXTERNAL WELDS. DUCTS TO SLOPE TOWARD HOOD. CLEANING ACCESS AT CHANGE IN DIRECTION OF DUCT RUN EXCEPT AT HOOD COLLAR.
10. RANGE HOOD SUPPLY DUCTS MATERIAL: 22 GALVANIZED SHEET METAL. GAUGES, HANGING AND REINFORCING PER SMACNA STANDARDS.



BUILDING "A" KEY PLAN - N.T.S.

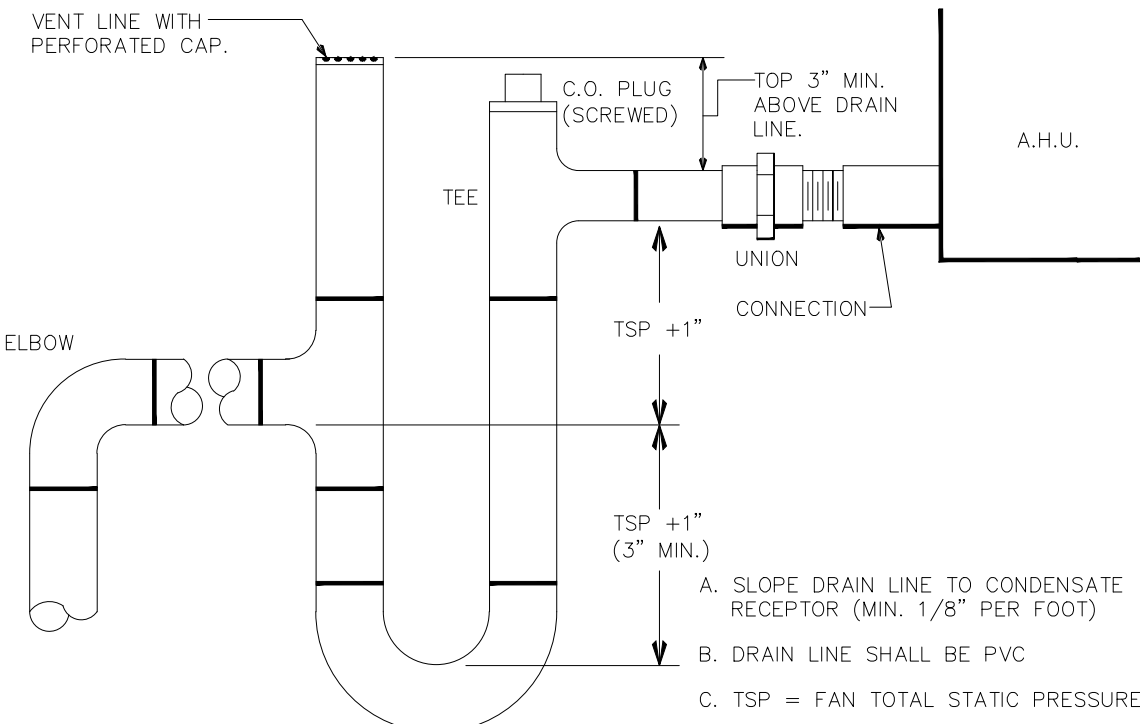
1 FLOOR PLAN - PLUMBING
SCALE: 1/8"=1'-0"

Storage Tank Water Heater Sizing Calculator							
Developed by the Plan Review Unit of the Environmental Health Services Section NC Division of Environmental Health							
Facility Name:		Pico-Taco					
Address:		MOORESVILLE, NC					
EQUIPMENT						GPH CALCULATED	
Enter the description, and number and size of compartments for each sink below	Description	Number of compartments	(inches)			Gallons Per Hour (GPH)	
			Length	Width	Depth		
	Largest Sink #1	3 Comp. Sink	3	24	18	16	68
	Sink #2						0
	Sink #3						0
Bar sink						0	
Sinks are calculated at 75% capacity						Total 68	
Enter type of prep sink and number of sink compartments for each sink below		Type of prep sink (vegetable, meat, seafood)		Number of compartments		Gallons Per Hour (GPH)	
Prep sink #1		3xVegetable		3		15	
Prep sink #2		2xMeat		2		10	
Prep sink#3						0	
Prep sinks are calculated at 5 gallons per compartment						Total 25	
Enter the quantity of equipment below		Quantity				Gallons Per Hour (GPH)	
Sink						0	
Can wash		1				10	
Mop sink						0	
Hose reel						0	
Clothes washer						0	
Enter a description and estimated gallon per hour (GPH) usage for other equipment below		Description	Estimated gallons per hour (GPH) usage			Gallons Per Hour (GPH)	
Other Equipment		(6) Lavatory	3			3	
Other Equipment						0	
Other Equipment						0	
Other Equipment						0	
Hand sinks and mop sinks are calculated at 5 GPH each, can washes at 10 GPH each. Hose reels are calculated at 5 GPH, clothes washers at 15 GPH, other equipment at the usage entered						Total 13	
Enter the make, model and Final Rinse Usage in gallons per hour (GPH) for dishmachines		Make	Model	Final Rinse Usage (GPH) Found in "Dishmachine Specs" sheet below or on manufacturer's spec sheet		Gallons Per Hour (GPH)	
Dishmachine #1		Jackson	TEMPSTAR HH	50		50	
Dishmachine #2						0	
Enter the quantity of pre-rinse units		Quantity				Gallons Per Hour (GPH)	
Pre-rinse		1				45	
Dishmachines are calculated at 70% of the final rinse usage specified by the manufacturer. Pre-rinse are calculated at 45 GPH						Total 95	
Recovery Rate Needed (GPH):						201	
Water Heater Input (BTU or kW) Needed:							
Gas Water Heater			Electric Water Heater				
198 ,000 BTU at 90°F rise			44 kW at 90°F rise				



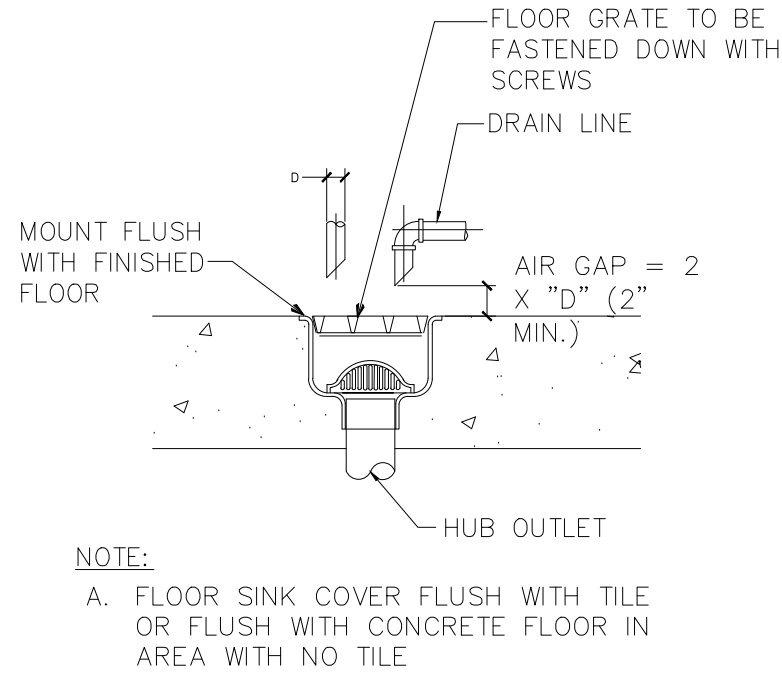
1 FLOOR PLAN - PLUMBING
SCALE: 3/16"=1'-0" (WATER PIPING)

PLUMBING FIXTURE SCHEDULE
P-1 (FLOOR MOUNTED FLUSH TANK WATER CLOSET) SHALL BE AN AMERICAN STANDARD MODEL 2462.016 CADET 1.6 GPF ELONGATED PRESSURE ASSISTED TOILET, VITREOUS CHINA, LOW-CONSUMPTION (1.6 GPF), ELONGATED BOWL, CLOSE-COUPLED FLUSHOMETER TANK, WITH RISE AND SHINE ELONGATED OPEN FRONT SEAT AND COVER AMERICAN STANDARD MODEL 5325.024 . * http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_2670.pdf
P-2 (HANDICAPPED FLOOR MOUNTED FLUSH TANK WATER CLOSET) SHALL BE AN AMERICAN STANDARD MODEL 2467.016 CADET 1.6 GPF RIGHT HEIGHT ELONGATED PRESSURE ASSISTED TOILET, VITREOUS CHINA, LOW-CONSUMPTION (1.6 GPF), CLOSE-COUPLED FLUSHOMETER TANK WITH RISE AND SHINE ELONGATED OPEN FRONT SEAT AND COVER AMERICAN STANDARD MODEL 5325.024 . * http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_2669.pdf
P-3 (HANDICAPPED URINAL AND FLUSH VALVE) SHALL BE AN AMERICAN STANDARD WASHBROOK MODEL 6501.511 3/4" TOP SPUD, 1.0 GPF, URINAL INCLUDES AMERICAN STANDARD MANUAL FLUSH VALVE MODEL 6045.102 FOR 3/4" TOP SPUD URINAL. * http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_4875.pdf * http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_4085.pdf
P-4 (HANDICAPPED WALL HUNG LAVATORY) SHALL BE AN AMERICAN STANDARD REGALYN LAVATORY MODEL 4869.001 (CENTER HOLE ONLY), VITREOUS CHINA, WALL MOUNT WITH CONCEALED ARMS SUPPORT, FAUCET SHALL BE A "CHICAGO" MODEL 3300-ABCP METEING FAUCET WITH 4" CENTERS AND BUILT-IN THERMOSTATIC MIXING VALVE TO DELIVER TEMPERED WATER AT A TEMPERATURE NOT TO EXCEED 105 DEGREES, UNIT IS ADA COMPLIANT, 0.5 GPM WITH AN ADJUSTABLE 2-15 SECOND OPERATING CYCLE PRODUCING UNDER 2.5 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 EQUAL. * http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_1476.pdf * http://www.chicagofaucets.com/catalog/catalog.php?part_number=3300-ABCP
P-5 (HANDICAPPED ELECTRIC WATER COOLER COMBINATION H/A/O & WALL CARRIER) SHALL BE AN ELKAY MODEL EMABFTLBC, SPUT LEVEL 20 STATION WATER COOLER WITH BARRIER FREE ACCESS, MODEL EMABFTLBC, 8.8 GPH, 4.0 FLA AT 120 VOLT, WITH ACCESSORY IN-WALL CARRIER ELKAY MODEL MLP200. H/A/O WATER COOLER: * http://www.elkay.com/emabftlbc IN-WALL CARRIER SYSTEM: * http://www.elkay.com/mlp200 WALL CARRIER INSTALLATION: * http://goo.gl/P4tct
P-6 (FLOOR MOUNTED INTERIOR CANSWASH/MOP RECEPTOR) SHALL BE A FLORESTONE 36X36X3" W/20" MOP BASIN WITH 3" OUTLET, PROVIDE WITH MR-371 THREADED FAUCET WITH WALL BRACE, PAIL HOOK AND APPROVED VACUUM BREAKER, MR-370 HOSE & HOSE BRACKET, MR-372 MOP HANGER, MR-373 BUMPER GUARDS AND MR-377 STAINLESS STEEL WALL GUARD. * http://www.florestone.com/mop_sinks/model_50-70.html * http://www.florestone.com/mop_sinks/ms_accessories.html
P-7 (STAINLESS STEEL HAND SINK) COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO BID.
P-8 (STAINLESS STEEL PREP SINK) COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO BID.
P-9 (STAINLESS STEEL 3 COMPARTMENT SINK) COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO BID. COORDINATE WITH EQUIPMENT MANUFACTURER. * http://content.zum.com/web_documents/pdfs/specsheets/z326.pdf
P-10 (HUB DRAIN - INDIRECT WASTE FUNNEL) SHALL BE A "TURN" Z326, 2" PIPE CONNECTION, DURA-COATED CAST IRON BODY AND BOTTOM OUTLET, CONTRACTOR HEIGHT OF FUNNEL WITH EQUIPMENT THAT IS UTILIZING FUNNEL DRAIN AND VERIFY PROPER CLEARANCE PRIOR TO CONSTRUCTION.
P-11 (6" FLOOR DRAIN WITH TRAP SEAL) SHALL BE A JOSAM 30003-A SERIES COATED CAST IRON FLOOR DRAIN, 3"ø PIPE CONNECTION, 6"ø DRAIN TOP, STRAINER TYPE 6A, TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEILCO INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET AND ADJUSTABLE SATIN NIKALOY ROUND SUPER-FLO STRAINER. * http://www.josam.com/cast-iron-adjustable-round-top-floor-drain/30000-A-FLOOR-RAIN-TRAP-SEAL SHALL BE A 3"ø "SURE SEAL" MODEL SS3000 PREASSEMBLED INLINE FLOOR DRAIN TRAP SEALER, 5 PIECES, COMMERCIAL GRADE ABS PLASTIC HOUSING AND KEEPER PIN, PROPRIETARY NEOPRENE RUBBER DIAPHRAGM, WITH 2 SOFT RUBBER SEALING GASKETS, FLOOR RATING ASSE-1072 AF-OW. * http://www.theshureseal.com/Portals/49321/docs/pitch_sheet_ss3000.pdf
P-12 (FLOOR SINK W/SEDIMENT BUCKET) SHALL BE A JOSAM 49340A-3-31 SERIES SQUARE CAST IRON 8" DEEP SUPER-FLO-SEPTOR 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/JO5/pl=F/49340A
P-13 (2" STUDIOR VENT - AIR ADMITTANCE VALVE) SHALL BE A IPS CORPORATION "STUDIOR MINI-VENT", 2" VENT. * http://www.ipscorp.com/plumbing/studior/minivent
P-14 (STAINLESS STEEL PRE-RINSE SINK) COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO BID.
P-15 (HOT WATER RECIRCULATING PUMP W/TIMER) SHALL BE A "GRUNDFOS" MODEL #UP15-10SU7P7LC, GRAINGER STOCK #JA13, INLINE CIRCULATOR PUMP, OPEN LOOP SYSTEM, 1/25 HP, 1 PHASE, VOLTAGE 115, 3/4" INLET/OUTLET, INCLUDES POWER CORD, 24 HR. TIMER, COMFORT BYPASS VALVE, SUPPLY LINES. * http://www.grainger.com/product/GRUNDFOS-Hot-Water-Circulator-Pump-4JA13
P-16 (GAS WATER HEATER - DIRECT VENT - SEALED COMBUSTION) SHALL BE A STATE "ULTRA FORCE" MODEL SUF100-199NE GAS FIRED COMMERCIAL WATER HEATER, 199,900 BTU INPUT TO PRODUCE 261 GALLONS PER HOUR OF HOT WATER AT 90 DEGREE RISE, INSULATED GLASSLINED 100 GALLON STORAGE TANK, WATER HEATER SHALL MEET OR EXCEED ALL APPLICABLE SECTIONS OF ASHRAE SECTIONS 90-80A AND NAECA REQUIREMENTS FOR ENERGY CONSERVATION. * http://www.statewaterheaters.com/lit/spec/comm-gas/SCGS500207.pdf
P-17 (UNDERBAR 3 COMPARTMENT STAINLESS STEEL SINK) COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO BID.
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 CONDENSATE P-TRAP DETAIL

NOT TO SCALE

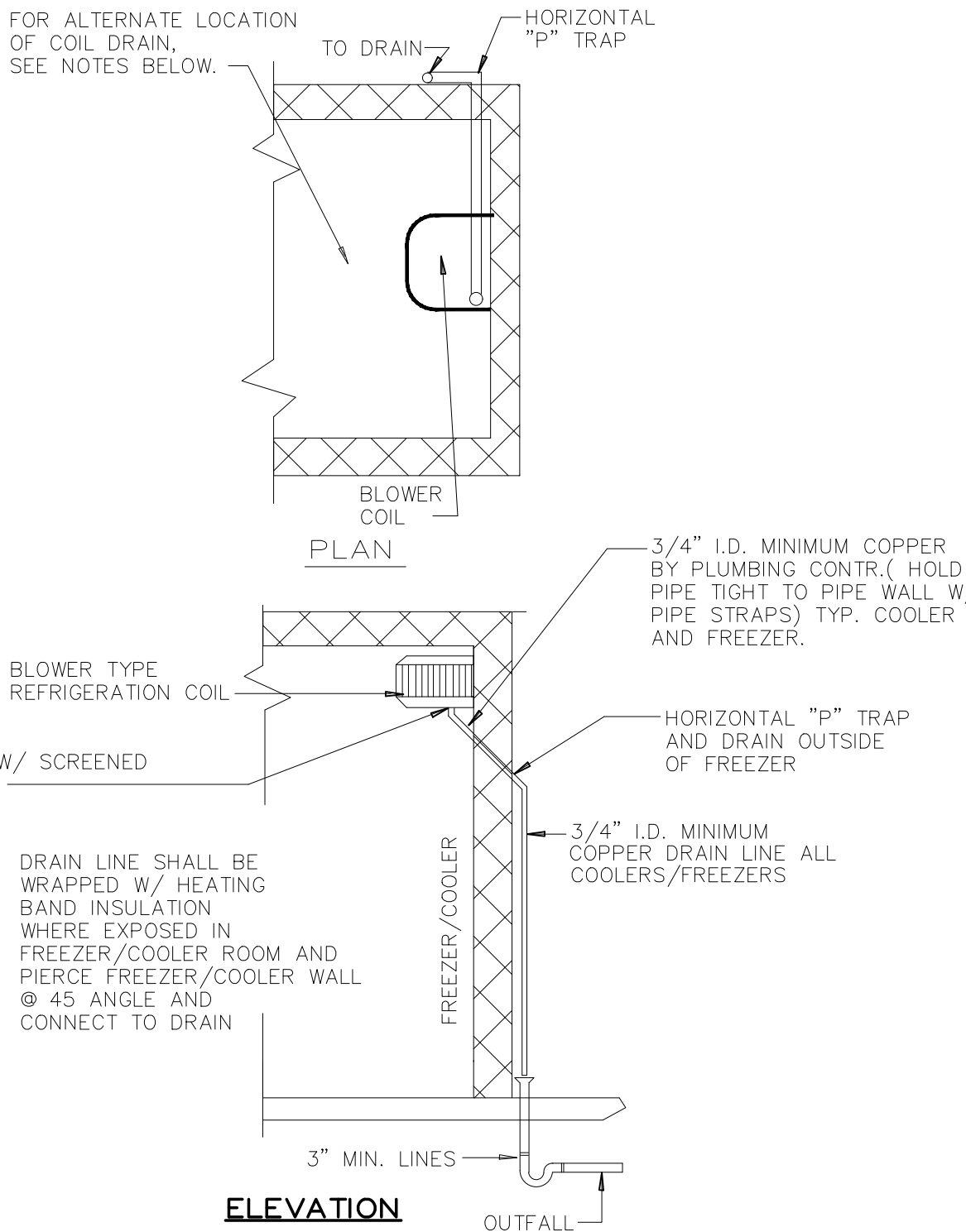


2 FLOOR SINK CONN. DETAIL

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. 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.
- 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.
- 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.
- 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 ALL CONDENSATE PIPING FOR AIR CONDITIONING UNITS AS REQUIRED PER LOCAL CODES.
- 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.
- PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS, JOSAM 58890.
- INSULATE LINES AS FOLLOWS:
A.) 1-1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON BOTH C.W. & H.W. WHEN PIPING IS LOCATED OUTSIDE OF THE INSULATED BUILDING ENVELOPE.
B.) 1-1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON HW PIPING & H.W. RECIIRC. PIPING, ONLY WHEN THERE IS A H.W. RECIRCULATING PIPING SYSTEM.
C.) CONDENSATE PIPING: 1/2" THICK ARMAFLEX PREFORMED OR APPROVED EQUAL.
- STORM DRAIN PIPING SHALL BE SCHED. 40 PVC.

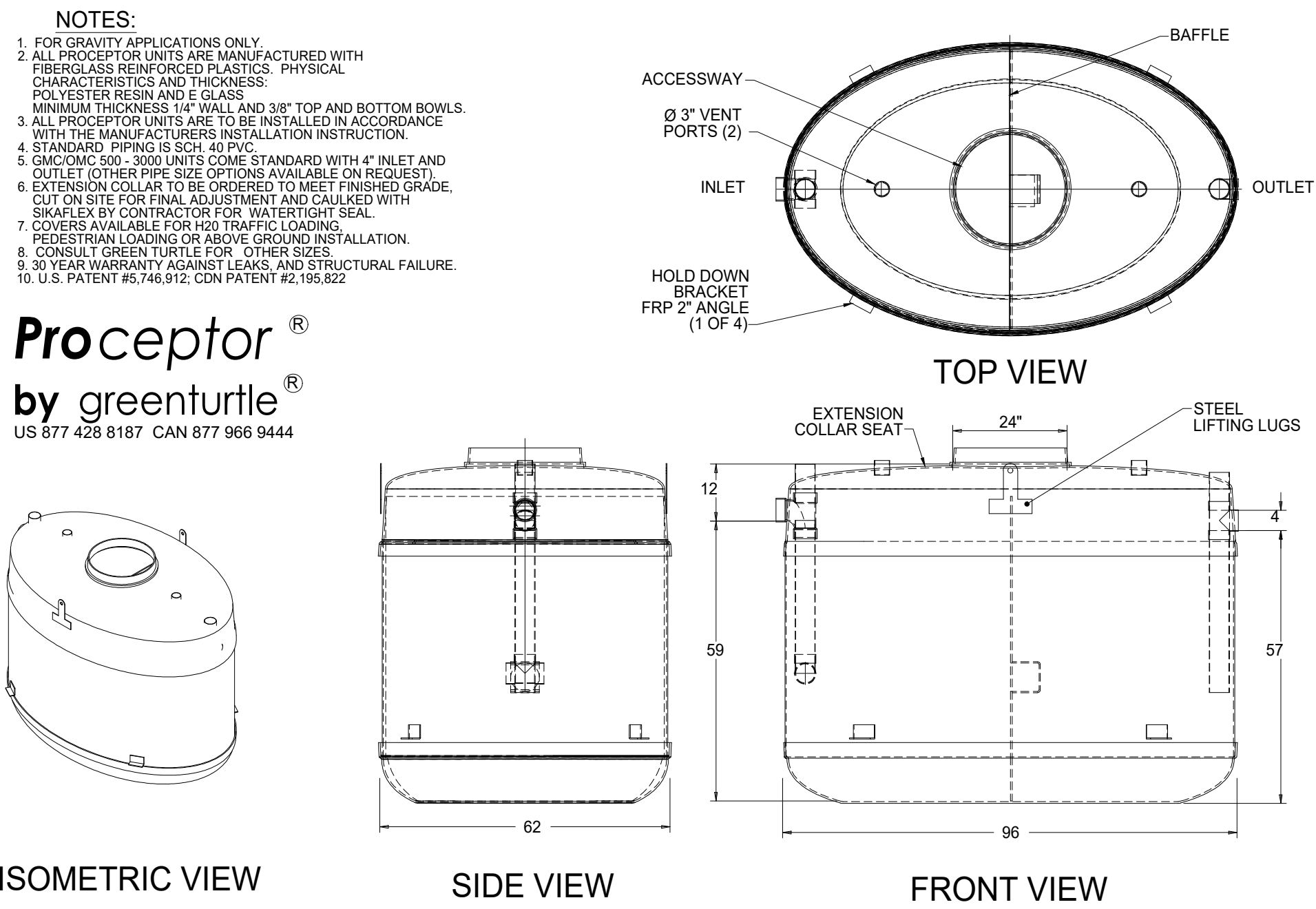


TYPICAL COOLER & FREEZER DRAIN DETAIL

- NOTES:
- SLOPE FLOOR FROM INSIDE COOLER WALLS TO FLOOR DRAINS OUTSIDE COOLERS.
 - SEE PLUMBING PLAN FOR NUMBER AND LOCATION OF BLOWER TYPE REFRIGERATION COILS. REFRIGERATION COILS ARE FURNISHED AND INSTALLED BY REFRIGERATION CONTRACTOR. REFRIGERATION CONTRACTOR SHALL MAKE ALL PLUMBING CONNECTIONS.
 - CONDENSATE DRAINS FOR FREEZERS SHALL BE LOCATED OUTSIDE FREEZER.

3 TYP. COOLER & FREEZER DRAIN DETAIL

NO SCALE



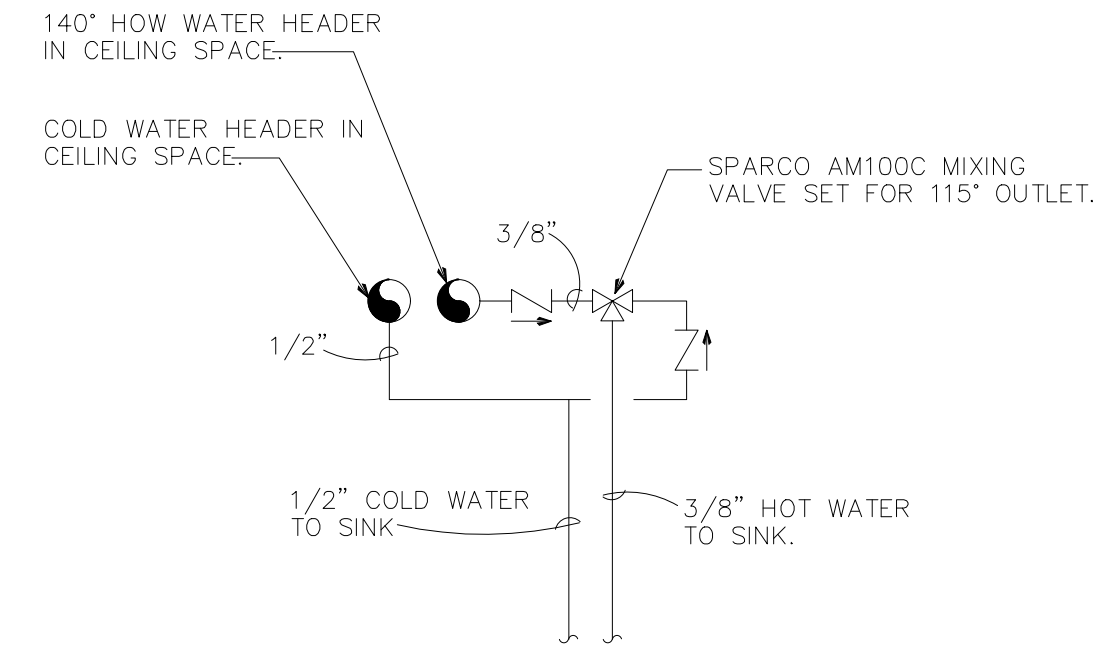
ISOMETRIC VIEW

SIDE VIEW

FRONT VIEW

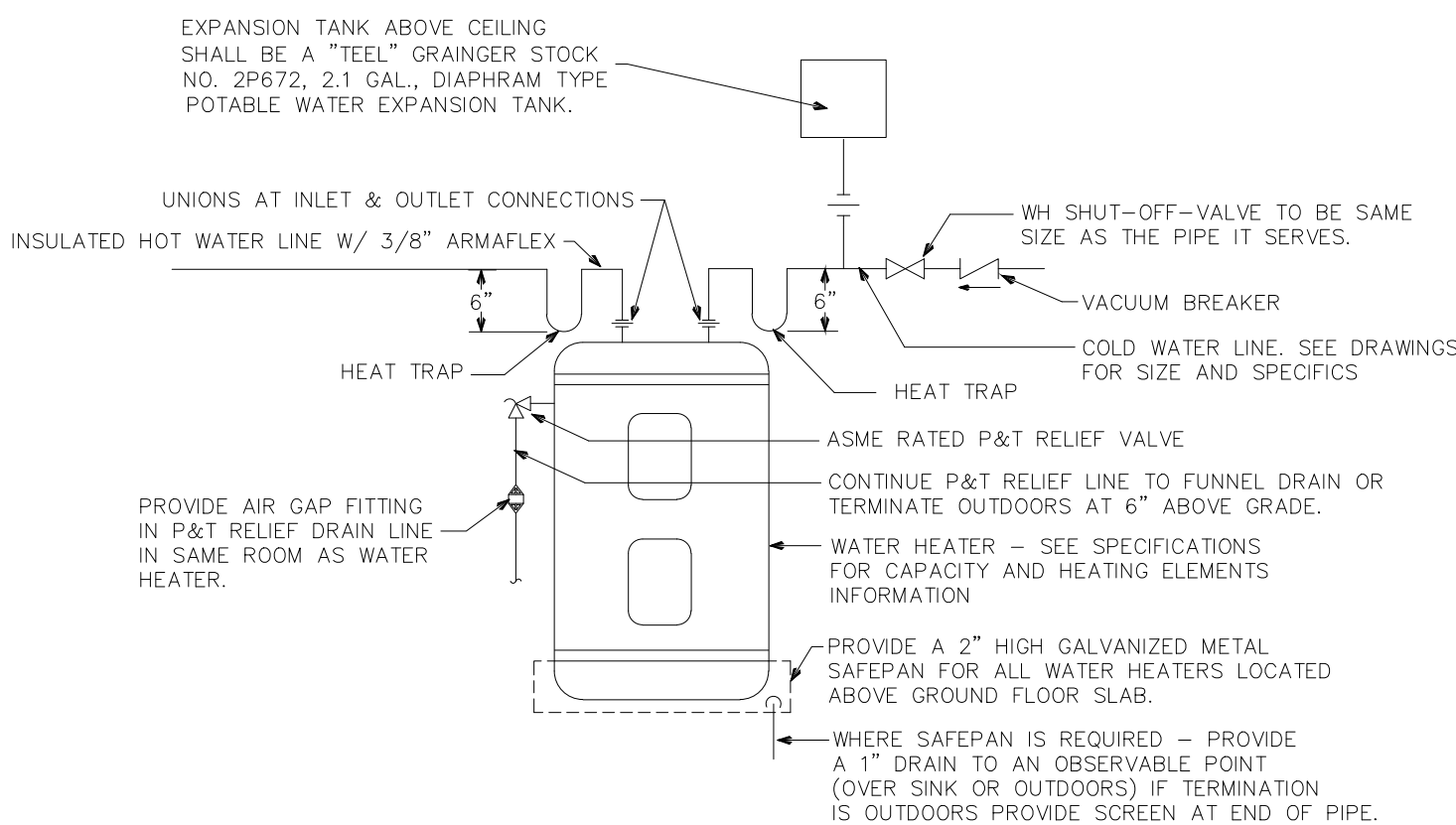
4 GREASE TRAP DETAIL

(1,000 GALLONS)
NO SCALE



5 MIXING VALVE FOR HAND SINKS AND LAV'S DETAIL

NO SCALE



6 WATER HEATER DETAIL

NO SCALE



PANEL SCHEDULE PA																								
200 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE																								
#	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	KEYS	C.	GND	NEUTRAL	COND.	BKR.	#	WIRE AND CONDUIT				BKR.	#
		COND.	NEUTRAL	GND	C.																			
1																								
3	25/3	#12	---	#12	1/2	CHAL	HOOD EXHAUST AIR FANS																	2
5																								4
7	20/1	#12	#12	#12	1/2	CHAL	EXHAUST HOOD LIGHTS/CONT																	6
9	20/1	#12	#12	#12	1/2	CHAL	NEW KITCHEN LIGHTS																	8
11	20/1	#12	#12	#12	1/2	CHAL	PREP AREA RECEPTACLES																	10
13	20/1	#12	#12	#12	1/2	CHAL	RECONNECTED EXTG LIGHTS																	12
15	20/1	#12	#12	#12	1/2	CHAL	RECONNECTED EXTG LIGHTS																	14
17	20/1	#12	#12	#12	1/2	CHAL	RECONNECTED EXTG LIGHTS																	16
19	20/1	#12	#12	#12	1/2	CHAL	NEW KITCHEN LIGHTS																	18
21	20/1	#12	#12	#12	1/2	CHAL	NEW KITCHEN LIGHTS																	20
23	20/1	#12	#12	#12	1/2	CHAL	REAR AREA LTG 1 TUBE/BATH																	22
25	20/1	#12	#12	#12	1/2	CHAL	REAR AREA LTG 2 TUBE																	24
27	20/1	#12	#12	#12	1/2	CHAL	CANDPY LIGHTS *																	26
29	20/1	#12	#12	#12	1/2	CHAL	BEER COOLER EVAP AHU																	28
31																								30
33	20/3	#12	---	#12	1/2	CHAL	BEER COOLER COND UNIT																	32
35																								34
37	20/1	#12	#12	#12	1/2	CHAL	BEER COOLER LTG/DOOR HTR																	36
39							SPACE																	38
41							SPACE																	40

WIRE/CONDUIT KEY
1234
1-TEMP RATING
2-CONDUIT TYPE
3-INSULATION
4-WIRING TYPE

WIRING TYPE INSULATION
C-CU WIRE H-THWN

CONDUIT TYPE
A-EMT

TEMP RATING
L-78-86 Deg. F.

16510 12743 14353
43,606

PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 79.1 AMPS
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 121.1 AMPS

PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001
REGISTERED TO - TODD W. CAREY AND ASSOCIATES

PANEL NOTES:
* - PROVIDE TIMECLOCK CONTROL FOR THIS CIRCUIT

PANEL SCHEDULE P																								
200 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE																								
#	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	KEYS	C.	GND	NEUTRAL	COND.	BKR.	#	WIRE AND CONDUIT				BKR.	#
		COND.	NEUTRAL	GND	C.																			
1	90/2	#4	---	#8	3/4	CHAL	DISHWASHER 25																	2
5	20/1	#12	#12	#12	1/2	CHAL	GAS WH FAN																	4
7	20/1	#12	#12	#12	1/2	CHAL	GRIDDLE /REFRIG BASE 14 *																	6
9	20/1	#12	#12	#12	1/2	CHAL	GRIDDLE /REFRIG BASE 14 *																	8
11	20/1	#12	#12	#12	1/2	CHAL	LOW PROFILE FREEZER																	10
13	20/1	#12	#12	#12	1/2	CHAL	LOW PROFILE FRIDGE																	12
15	45/2	#8	#8	#10	3/4	CHAL	DISHWASHER 18																	14
17																								16
19							SPACE																	18
21							SPACE																	20
23							SPACE																	22
25							SPACE																	24
27							SPACE																	26
29							SPACE																	28
31							SPACE																	30
33							SPACE																	32
35							SPACE																	34
37							SPACE																	36
39							SPACE																	38
41							SPACE																	40

WIRE/CONDUIT KEY
1234
1-TEMP RATING
2-CONDUIT TYPE
3-INSULATION
4-WIRING TYPE

WIRING TYPE INSULATION
C-CU WIRE H-THWN

CONDUIT TYPE
A-EMT

TEMP RATING
L-78-86 Deg. F.

13546 21826 12118
47,490

PEAK PHASE (C) UNBALANCED NEUTRAL LOAD AMPS = 23. AMPS
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 131.9 AMPS

PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001
REGISTERED TO - TODD W. CAREY AND ASSOCIATES

PANEL NOTES:
* - TO BE WIRED THRU HOOD INTERLOCK CONTACTOR, SEE HOOD WIRING DETAIL

PANEL SCHEDULE AC																								
600 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 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	KEYS	C.	GND	NEUTRAL	COND.	BKR.	#	WIRE AND CONDUIT				BKR.	#
		COND.	NEUTRAL	GND	C.																			
1																								
3	30/3	#10	---	#10	1/2	CHAL	CONDENSING UNIT #1																	2
5																								4
7																								6
9	30/3	#10	---	#10	1/2	CHAL	CONDENSING UNIT #2																	8
11																								10
13																								12
15	50/3	#8	---	#10	3/4	CHAL	CONDENSING UNIT #3																	14
17																								16
19																								18
21	45/3	#8	---	#10	3/4	CHAL	CONDENSING UNIT #4																	20
23																								22
25																								24
27	45/3	#8	---	#10	3/4	CHAL	CONDENSING UNIT #5																	26
29																								28
31																								30
33	45/3	#8	---	#10	3/4	CHAL	CONDENSING UNIT #6																	32
35																								34
37																								36
39	60/3	#8	---	#10	3/4	CHAL	CONDENSING UNIT #7																	38
41																								40

WIRE/CONDUIT KEY
1234
1-TEMP RATING
2-CONDUIT TYPE
3-INSULATION
4-WIRING TYPE

WIRING TYPE INSULATION
C-CU WIRE H-THWN

CONDUIT TYPE
A-EMT

TEMP RATING
L-78-86 Deg. F.

72886 77039 68941
218,866

PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 99.3 AMPS
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 608. AMPS

PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001
REGISTERED TO - TODD W. CAREY AND ASSOCIATES

PANEL NOTES:
* - PROVIDE A CONTACTOR AND CONTROL SWITCH FOR CONTROL OF FANS

ELECTRICAL NOTES:

- GENERAL: ALL WORK SHALL CONFORM TO THE LATEST 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 GLEVES TO BE SET IN CONCRETE 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, SUB