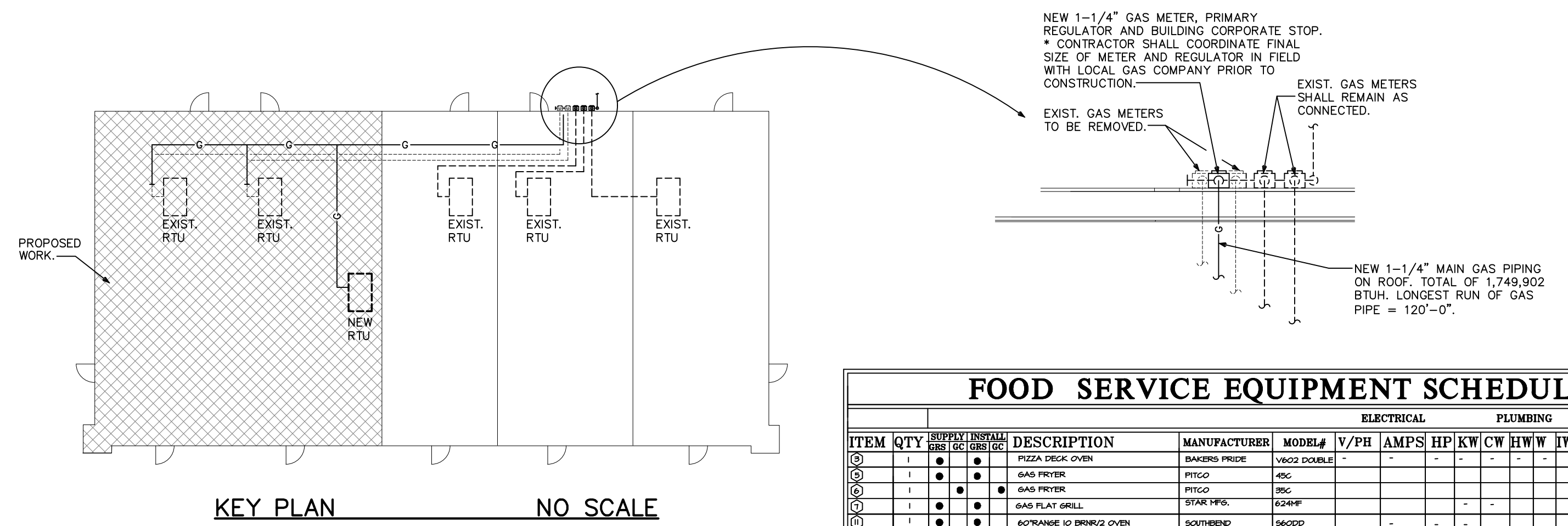


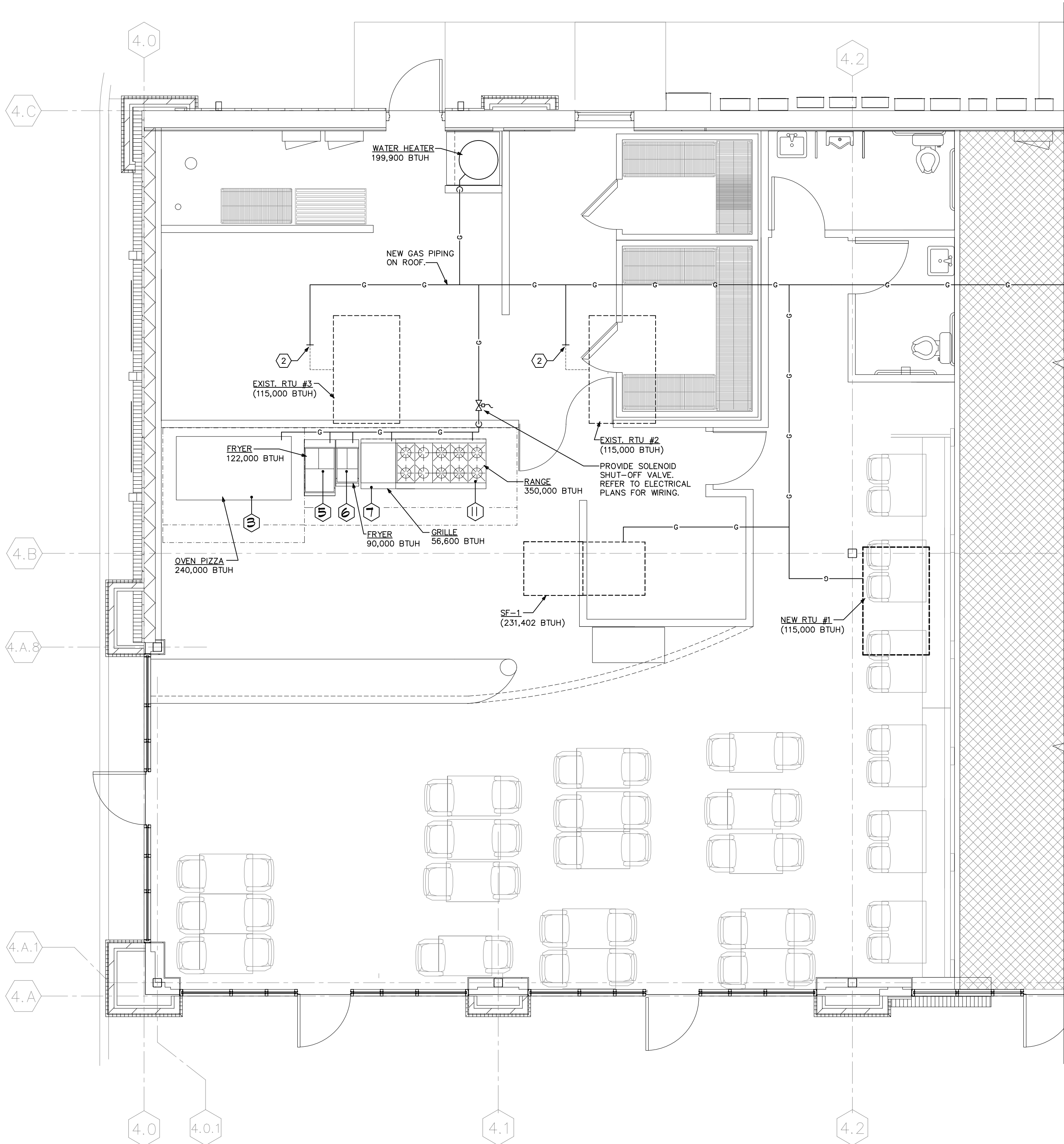


FOOD SERVICE EQUIPMENT SCHEDULE														
		ELECTRICAL					PLUMBING			GAS		UL/NSF		
ITEM	QTY	SUPPLY	INSTALL	DESCRIPTION	MANUFACTURER	MODEL#	V/PH	AMPS	HP	KW	CW	HW	BTU	REMARKS
1	1	●	●	PIZZA DECK OVEN	BAKERS PRIDE	V602 DOUBLE	-	-	-	-	-	-	240,000	SA, NSF
2	1	●	●	GAS FRYER	PRICO	45C	-	-	-	-	-	-	122,000	SA, NSF
3	1	●	●	GAS FRYER	PRICO	50C	-	-	-	-	-	-	40,000	SA, NSF
4	1	●	●	GAS FLAT GRILL	STAR TRAC	624HF	-	-	-	-	-	-	56,600	UL
5	1	●	●	60" RANGE 10 BURNER OVEN	SOUTHERN	5600D	-	-	-	-	-	-	102,800	SA, NSF

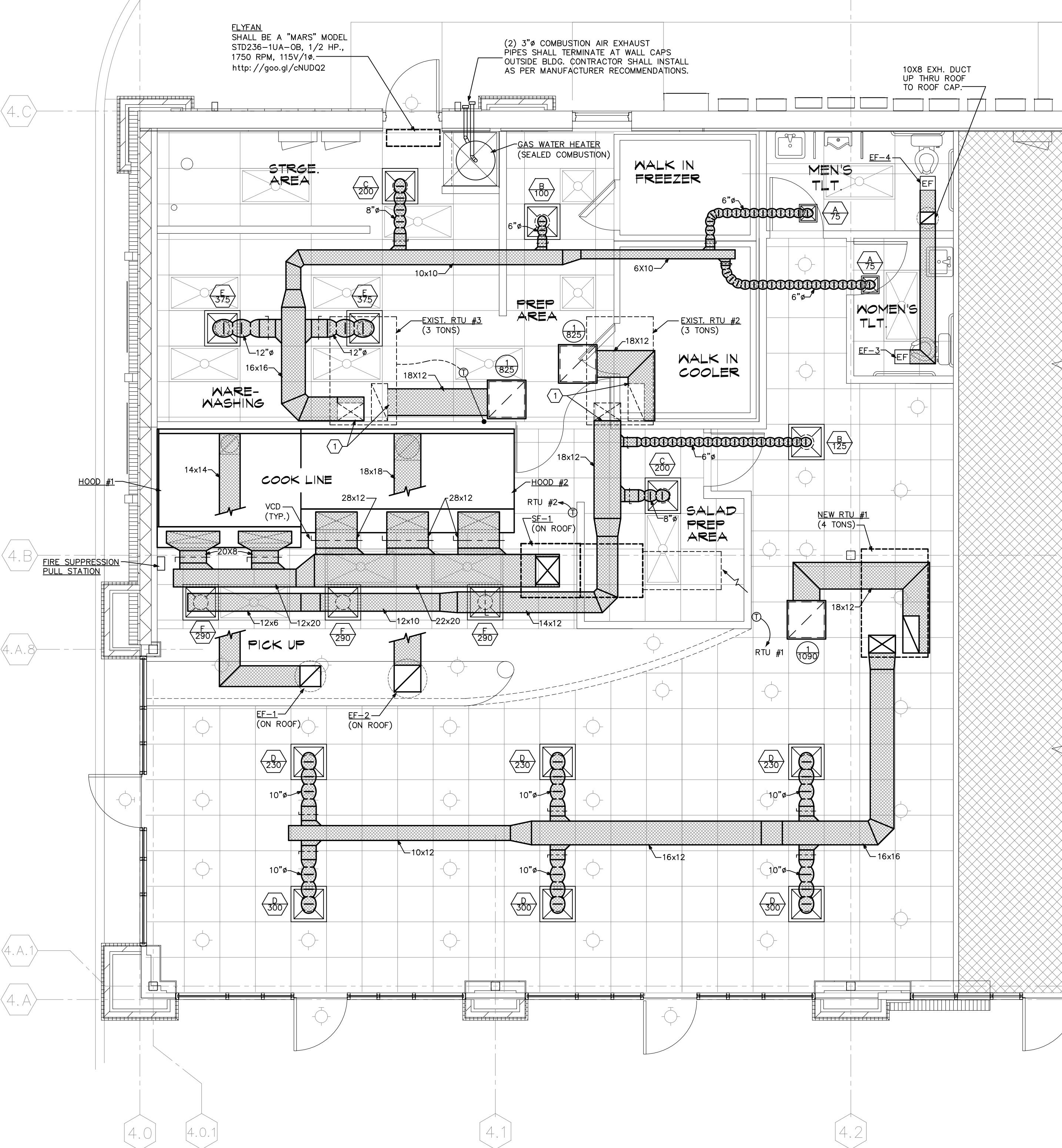
SUPPLY DIFFUSER SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE		ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.		
DESIGNATES CFM QUANTITY FOR DIFFUSER				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS TDC-AA	6"ø	0 - 125	12X12 LOUVERED FACE
B	TITUS TDC-AA	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 PCS-AA	10"ø	205 - 325	PERFORATED FACE

- SPECIFIC MECHANICAL NOTES**
- CONNECT TO EXISTING DUCTWORK IN JOIST SPACE IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
 - CONNECT TO EXISTING GAS PIPING ON ROOF IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.

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	24X24	0 - 1400	LOUVER FACE



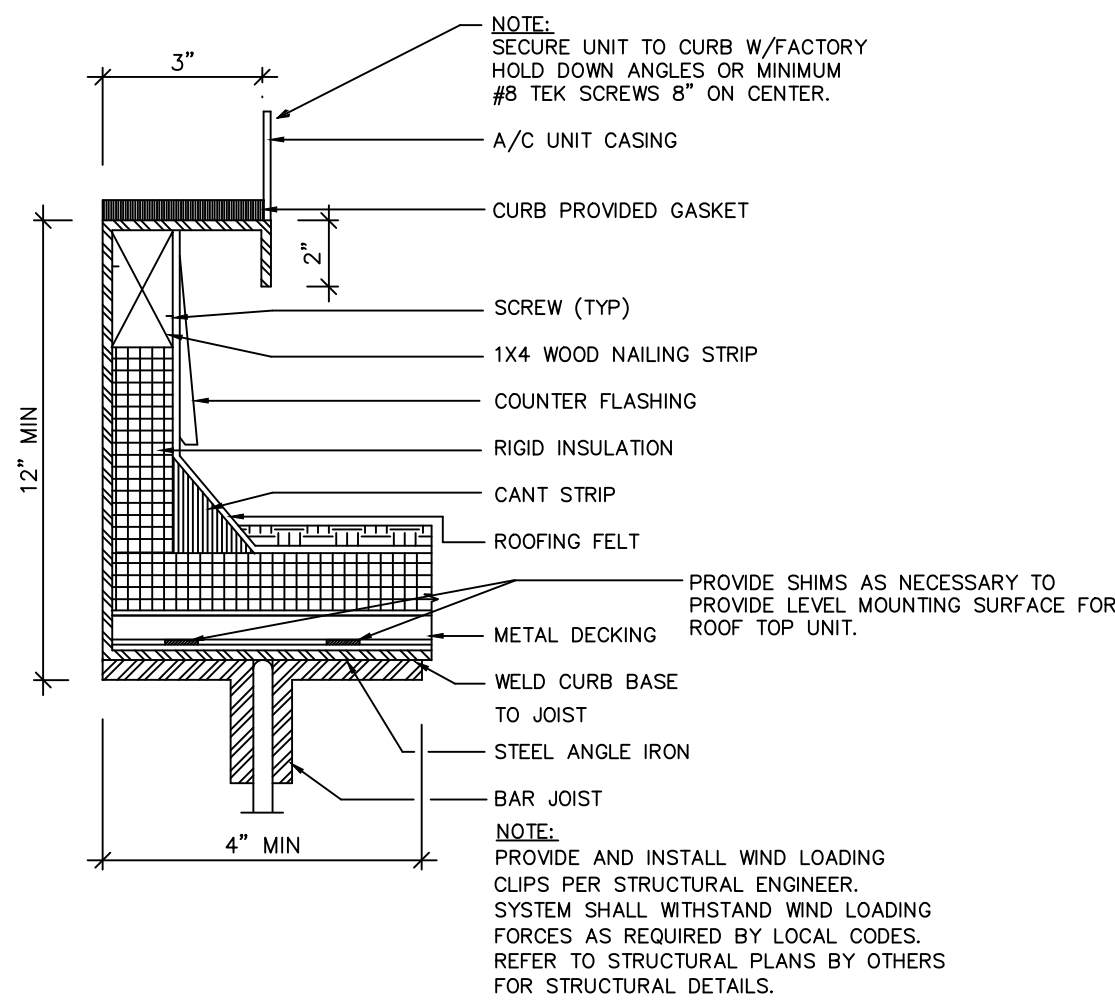
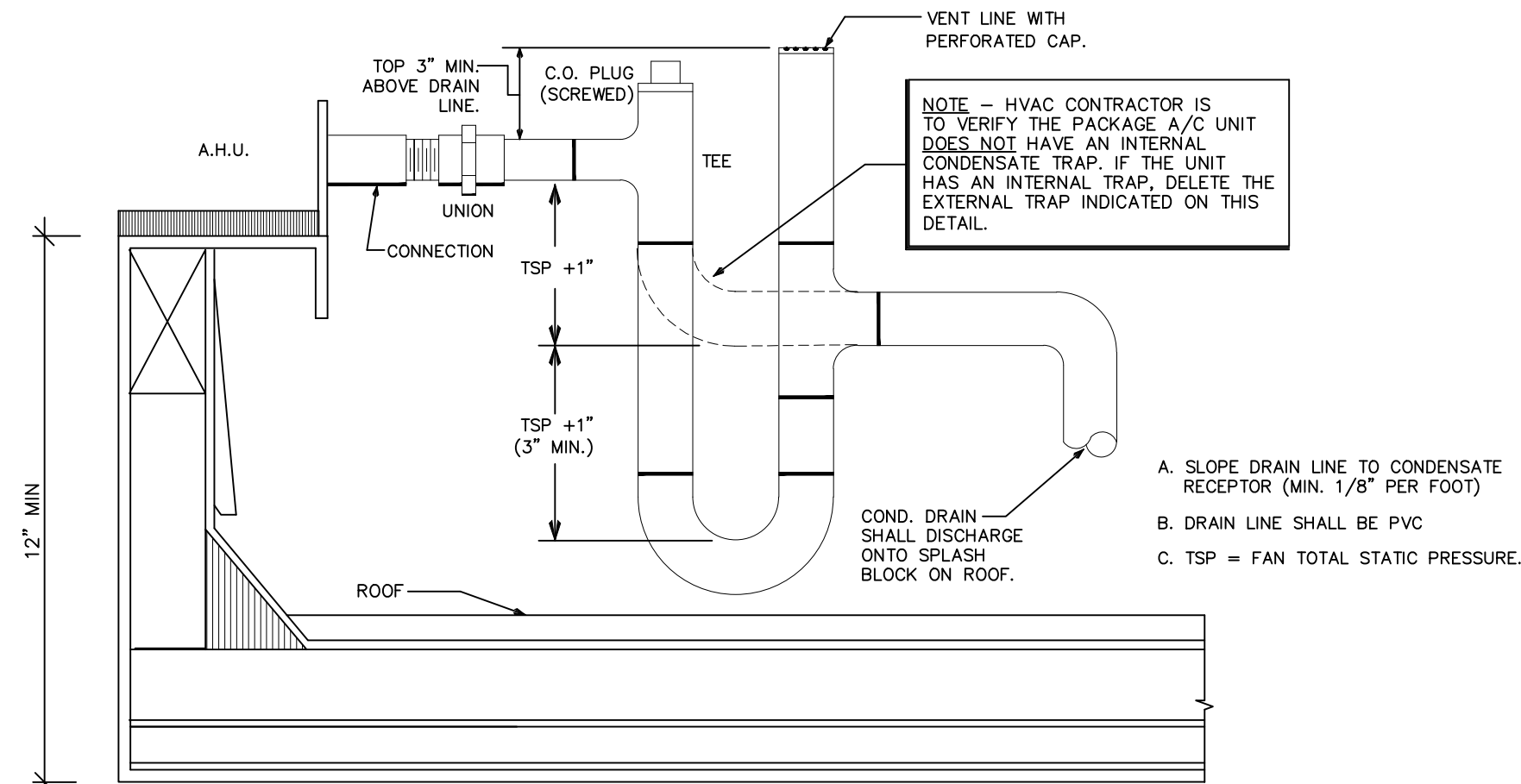
1 FLOOR PLAN - GAS PIPING
SCALE: 1/4"=1'-0"



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

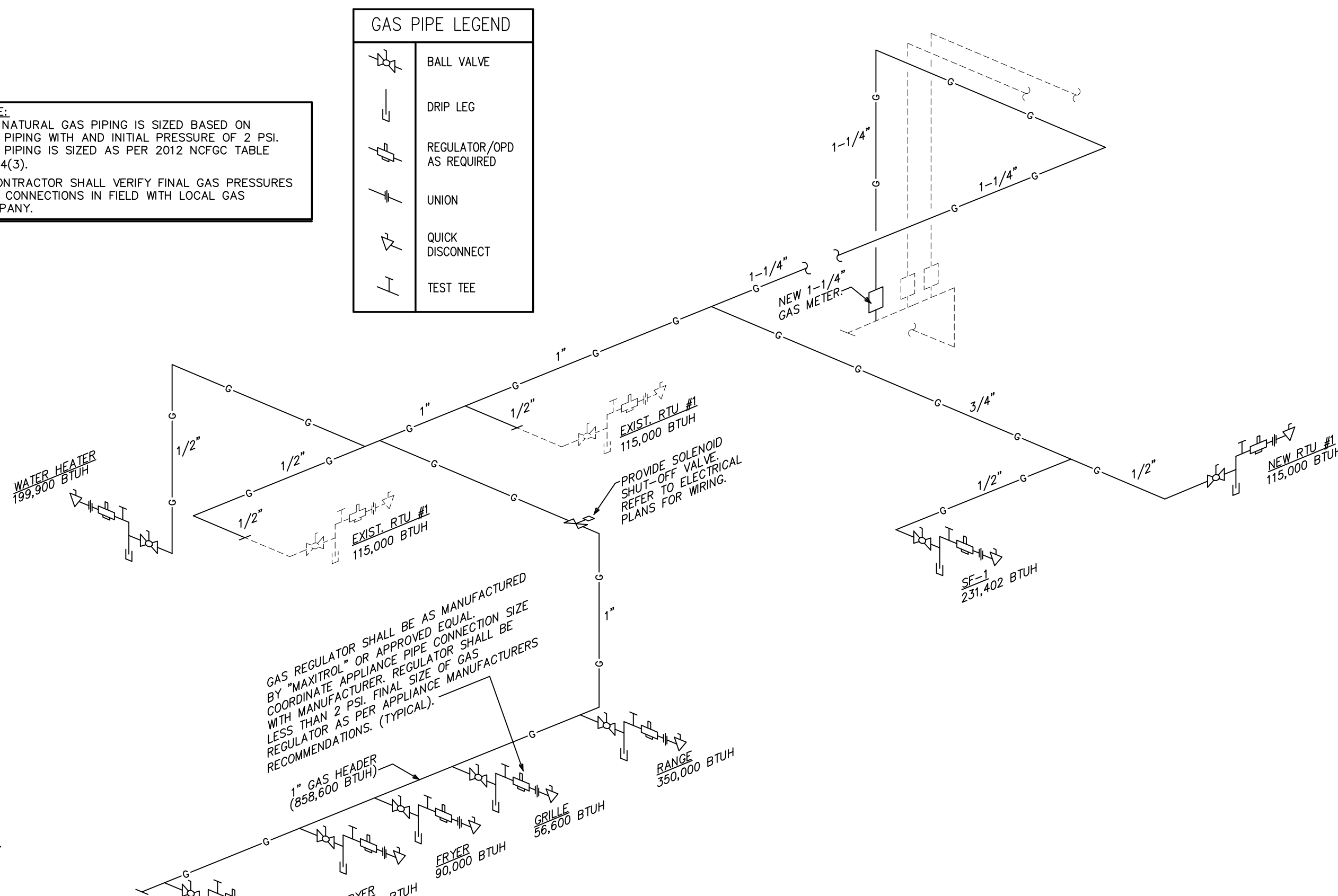
REV.	DESCRIPTION	BY
1		
2		
3		
4		
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7		
8		
9		
10		

2 CONDENSATE P-TRAP DETAIL NO SCALE

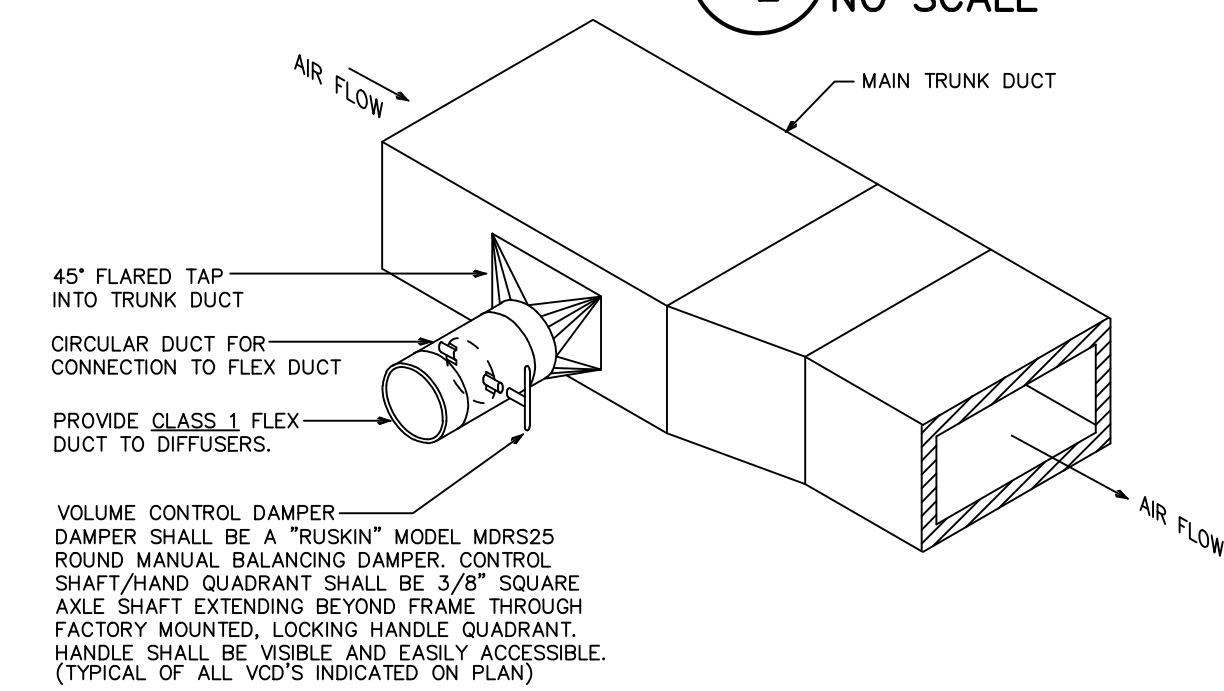


3 ROOF CURB DETAIL NO SCALE

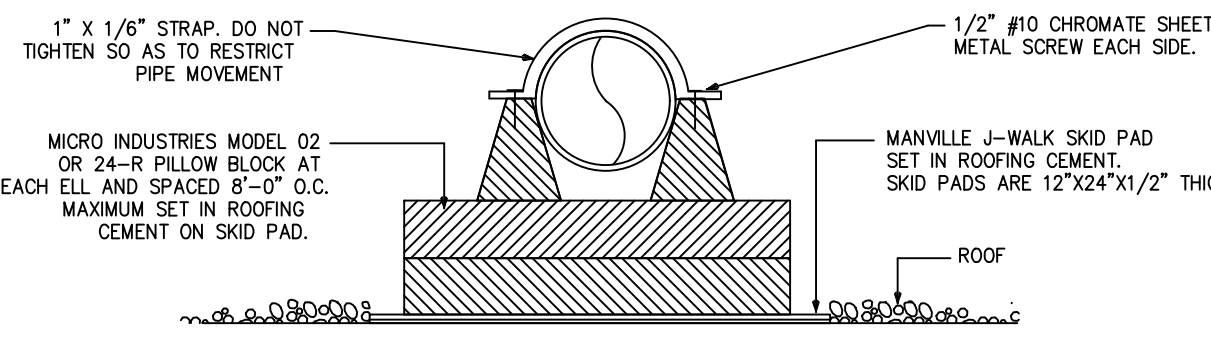
1 GAS PIPING ISOMETRIC NO SCALE



4 BRANCH DUCT DETAIL NO SCALE



5 ROOF GAS PIPING SUPPORT DETAIL NO SCALE



APPENDIX B BUILDING CODE SUMMARY (MECHANICAL SUMMARY)

MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT	
METHOD OF COMPLIANCE:	
Prescriptive	☒ Energy Cost Budget ☐
Thermal Zone	Zone 3A
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	52.9% 212890
Building Heating Load	491,890 BTU
Building Cooling Load	118,150 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)	
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:¹
To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina Energy Code 2012.

SIGNED: _____
NAME: TODD W. CAREY
TITLE: N.C. PROFESSIONAL ENGINEER #9079

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 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 1/2" 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

GENERAL MECHANICAL NOTES

1. 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 EDITION 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.
2. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
3. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES, TO INSURE AN ORDERLY PROGRESS OF THIS WORK.
4. 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.
5. ALL PROVIDED MATERIALS SHALL BE NEW OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED WORKMAN.
6. 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.
7. 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" WITH A MINIMUM 4.2 R VALUE, OR APPROVED EQUAL AND SHALL HAVE EQUIVALENT INSULATION.
8. ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS.
9. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
10. 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 TTUS, METALARE, AIRGUIDE. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS.
11. 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.
12. 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.
13. SPLIT SYSTEMS (IF APPLICABLE) SHALL HAVE A MINIMUM OF 1-1/2" ARMAFLEX INSULATION (OR APPROVED EQUAL) USED FOR SUCTION LINES. INSTALLATION SHALL BE AS PER MANUFACTURERS INSTRUCTIONS. PRE-INSULATED LINES SETS ARE ACCEPTABLE.
14. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/MANUAL VOLUME DAMPERS AND TAPS AS PER PLANS REQUIREMENTS.
15. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO FINAL ACCEPTANCE BY OWNER.
16. 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 SHALL 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 THAT COMMON PLENUM.
17. 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 STANDARD. INCLUDE MEASUREMENTS, AIR QUANTITIES FOR ALL SUPPLY GRILLS, RETURN GRILLS, AND EXHAUST GRILLS, AND THE LEAVING AND ENTERING AIR TEMPERATURE (T) FROM SUPPLY GRILLS AND EVAPORATORS.
18. THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER BEFORE INSTALLATION.
19. ALL INSULATION SHALL HAVE FIRE/SMOKE RATING LESS THAN 25/50.
20. MECHANICAL PLANS IN GENERAL, ARE DIAGRAMATIC 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.
21. 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.
22. PROVIDE ALL NECESSARY CONTACTORS, RELAYS, ETC., FOR A COMPLETE OPERATING SYSTEM.
23. 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.
24. 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.
25. 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.

OUTSIDE AIR CALCULATIONS

THE FOLLOWING IS BASED ON 2012 NCMC CODE TABLE 403.3 MINIMUM VENTILATION RATES FOR OUTSIDE AIR REQUIREMENTS (EQUATION 4-1)									
OCCUPANCY CATEGORY	AREA	ESTIMATED MAX. OCCUPANCY			OUTSIDE AIR REQUIRED (CFM)			ZONE AIR DIST. EFF.	TOTAL
	A ₂	P ₂	R _P	EXH. AIRFLOW RATE CFM/FT	P ₂ x R _P	A ₂ x R _A	A ₂ x EXH. RATE		
DINING	0,915	70 PEOPLE PER 1,000 S.F.	7.5 CFM PER PERSON	N/A	(64 x 7.5) + (0,915 x .18) = 644	AREA TOTAL			
STORAGE	0,090	N/A	N/A	N/A	(N/A) + (0,090 x .12) = 0.11	PEOPLE AREA TOTAL			
KITCHEN	0,500	N/A	N/A	.70			(500 x .70) = 350		
							AREA TOTAL		
							RTU #1,2,3 TOTAL = 1,005	0.8	1,005/0.8 = 1,256
							RTU #1 = 375 CFM / RTU #2 = 375 CFM / RTU #3 = 506 CFM		
A ₂ — ZONE FLOOR AREA		R _P — AREA OUTDOOR RATE							
P ₂ — ZONE POPULATION		E ₂ — ZONE AIR DISTRIBUTION EFFECTIVENESS							
R _P — PEOPLE OUTDOOR RATE									

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	REFER TO HOOD DETAILS AND SPECIFICATIONS ON SHEET M-3		—	—	—	—	—	—	—	—
EF-3	CABINET FAN — REFER TO PLANS	PENN ZEPHYR Z6	90	.125"	CEILING MOUNTED	50 WATTS	OPEN DRIP PROOF	1055	115V/1ø	1
EF-4	CABINET FAN — REFER TO PLANS	PENN ZEPHYR Z7	190	.125"	CEILING MOUNTED	68 WATTS	OPEN DRIP PROOF	1640	115V/1ø	1

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

ROOFTOP 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	VOLTAGE	MOCP	EER/SEER	NOTES	HEATER BTU INPUT
RTU #1	CARRIER	48TCEA05A2A5-0A0A0	46,950	32,920	1,600	SEE SCH.	.4"	892	13.7	1.5	3/4	93,000	208V/3ø	30	13.0	1 THRU 11	115,000
GENERAL NOTES:																	
ABBREVIATION LEGEND:																	
* ALL RATINGS ARE AT ARI ENTERING CONDITIONS UNLESS OTHERWISE NOTED.																	
* EXTERNAL STATIC PRESSURE DOES NOT INCLUDE COIL OR FILTER PRESSURE DROP.																	
* APPROVED EQUALS SHALL BE TRANE, LENOX AND YORK. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ANY CLEARANCE REQUIREMENTS ARE MET FOR ANY SUBSTITUTIONS.																	
SPECIFIC NOTES:																	
1) FACTORY ROOF CURB WITH THRU THE CURB SERVICE CONNECTION.																	
2) OUTDOOR AIR MANUAL OR 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) YEAR WARRANTY ON ALL PARTS AND LABOR AND (5) YEAR WARRANTY ON COMPRESSOR.																	
9) INSULATE CONDENSATE DRAIN LINE WITH 1/2" ARMAFLEX.																	
10) INSULATE CONDENSATE DRAIN LINE WITH 1/2" ARMAFLEX.																	
11) PROVIDE ALL NECESSARY CONTACTORS, RELAYS, MOTOR STARTERS, ETC. FOR A COMPLETE OPERATING UNIT.																	

HOOD INFORMATION – Job#2520556

HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM					TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.	
					WIDTH	LENG.	DIA.	CFM	S.P.			END TO END	ROW
1	6624 ND-2-PSP-F	8' 0.00"	450 Deg.	1600			12"	1600	-0.392"	1280	430 SS Where Exposed	LEFT	ALONE
2	5424 ND-2-PSP-F	12' 0.00"	600 Deg.	2880			16"	2880	-0.573"	2304	430 SS Where Exposed	RIGHT	ALONE

HOOD INFORMATION

HOOD NO.	TYPE	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT
		QTY.	HEIGHT	LENGTH	EFFICIENCY @ 9 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY		
1	SS Baffle with Handles	5	20"	16"	30%	4	L55 Series E26	NO						YES	413 LBS
2	SS Baffle with Handles	9	20"	16"	30%	6	L55 Series E26	NO						YES	628 LBS

HOOD OPTIONS

HOOD NO.	OPTION									
1	FIELD WRAPPER	17.00"	High	Front						
	BACKSPLASH	80.00"	High X	241.00" Long	430 SS	Vertical				
	LEFT SIDESPLASH	80.00"	High X	66.00" Long	430 SS	Vertical				
	LEFT END STANDOFF (FINISHED)	1"	Wide	66"	Long	Insulated				
2	FIELD WRAPPER	17.00"	High	Front, Right						

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
						WIDTH	LENG.	DIA.	CFM	S.P.
1	Front	97"	14"	6"	MUA	8"	36"		640	0.183"
					MUA	8"	36"		640	0.183"
					MUA	12"	28"		768	0.220"
					MUA	12"	28"		768	0.220"
2	Front	144"	16"	6"	MUA	12"	28"		768	0.220"
					MUA	12"	28"		768	0.220"
					MUA	12"	28"		768	0.220"
					MUA	12"	28"		768	0.220"

EXHAUST FAN INFORMATION – Job#2520556

FAN UNIT NO.	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
EF-1	NCA14FA	1600	0.800	1069	0.750	0.3940	3	208	2.9	122	10.6
EF-2	NCA16FA	2880	1.000	1071	1.500	0.9220	3	208	4.6	153	12.5

MUA FAN INFORMATION – Job#2520556

FAN UNIT NO.	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.250-G15	G15-PB	A2-D.250	3584	0.500	844	2.000	1.5860	3	208	5.9	786	13.8	92

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO.	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
SF-1	231402	212890	55 deg F	7 in. w.c. – 14 in. w.c.	Natural

FAN OPTIONS

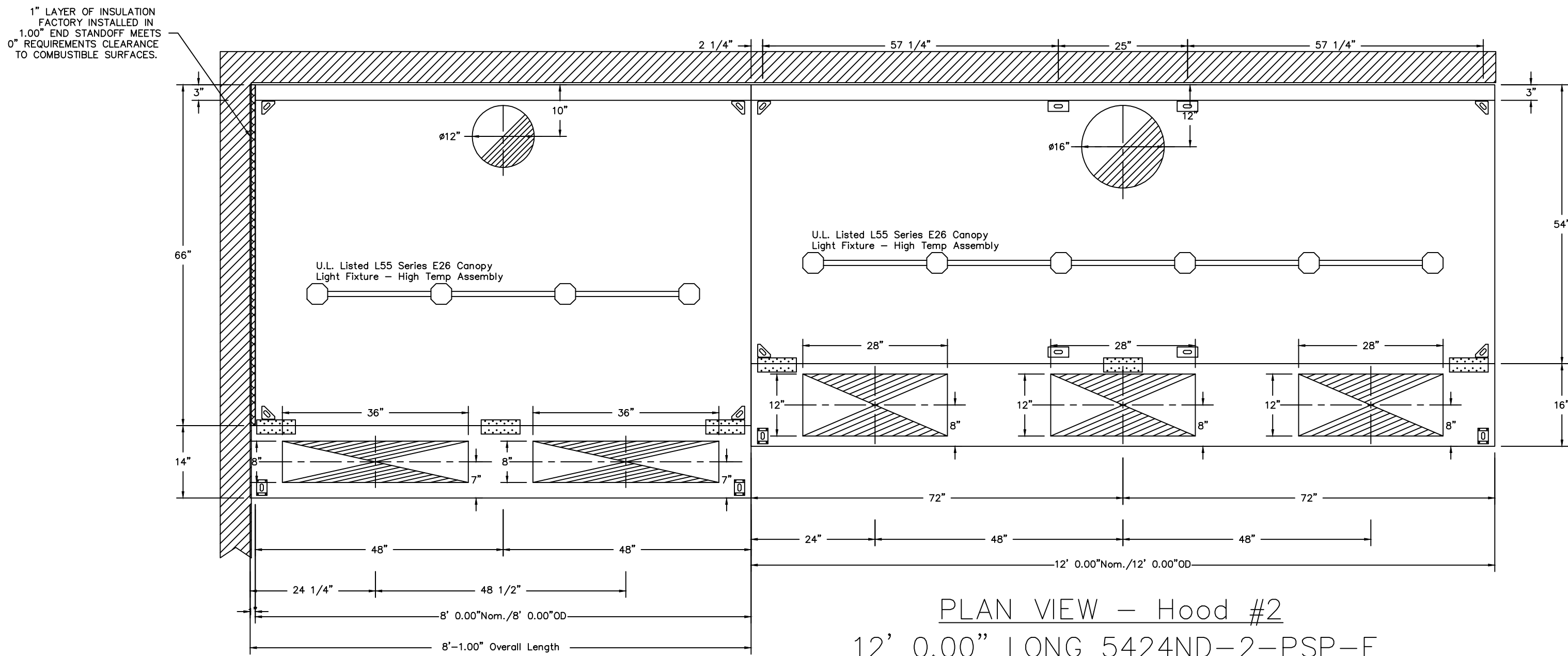
FAN UNIT NO.	OPTION (Qty. – Descr.)									
EF-1	1 – Grease Box									
EF-2	1 – Grease Box									
SF-1	1 – AC Interlock Relay – 24VAC Coil									
	1 – Motorized Backdraft Damper for A2-D Housing									
	1 – Low Fire Start									
	1 – Inlet Pressure Gauge, 0-35"									
SF-1	1 – Manifold Pressure Gauge, -5 to 15" wc									

FAN ACCESSORIES

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

CURB ASSEMBLIES

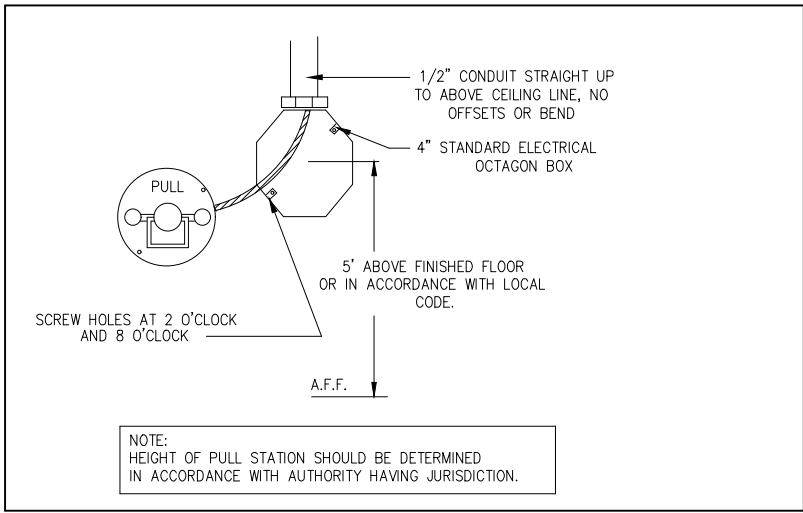
NO.	ON FAN	WEIGHT	ITEM	SIZE
EF-1 # 1	41	LBS	Curb	23,000"W x 23,000"L x 24,000"H Vented Hinged
EF-2 # 2	34	LBS	Curb	26,500"W x 26,500"L x 26,000"H Vented Hinged
SF-1 # 3	76	LBS	Curb	31,000"W x 79,000"L x 15,000"H Insulated



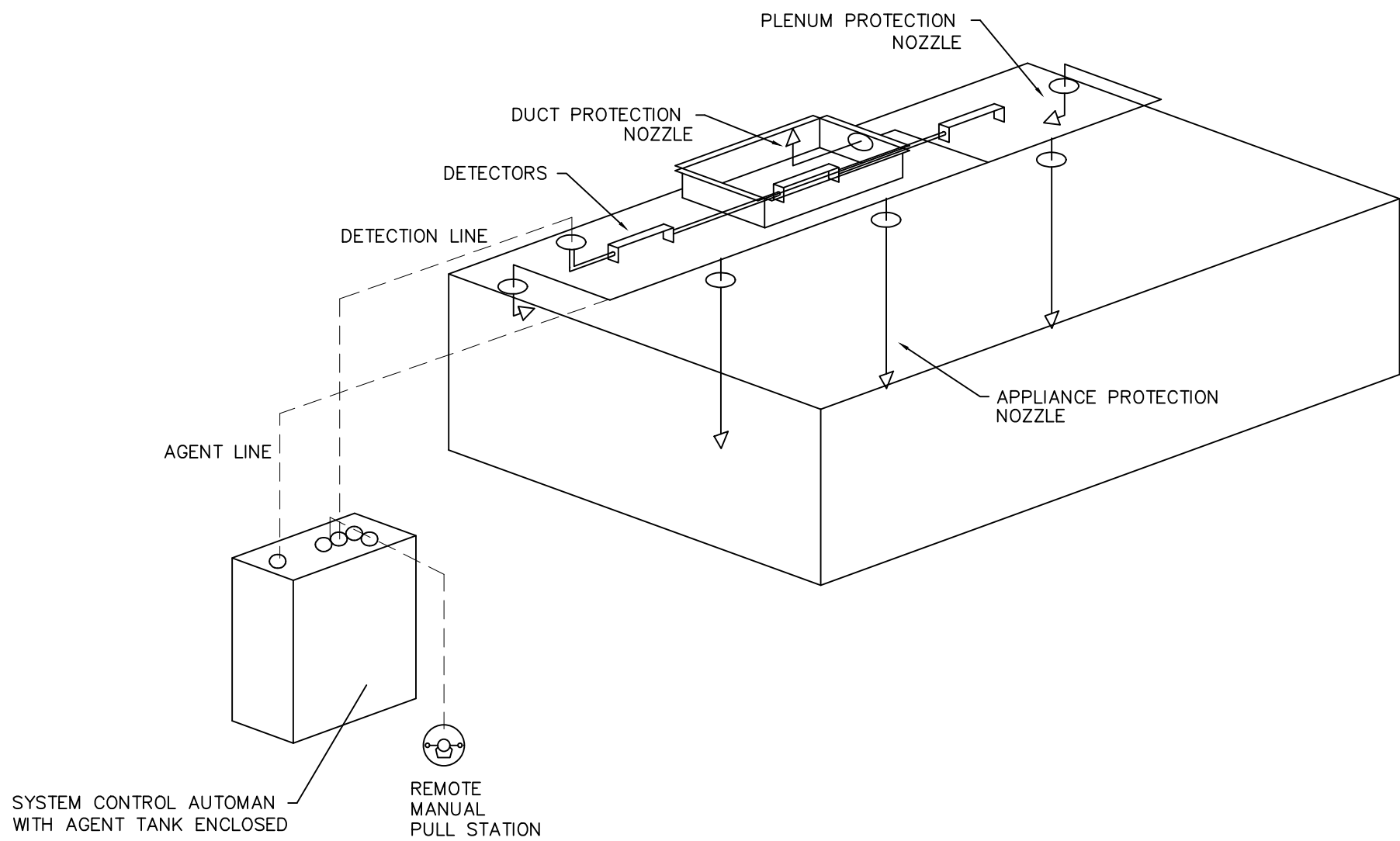
PLAN VIEW – Hood #1
8' 0.00" LONG 6624ND-2-PSP-F

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.

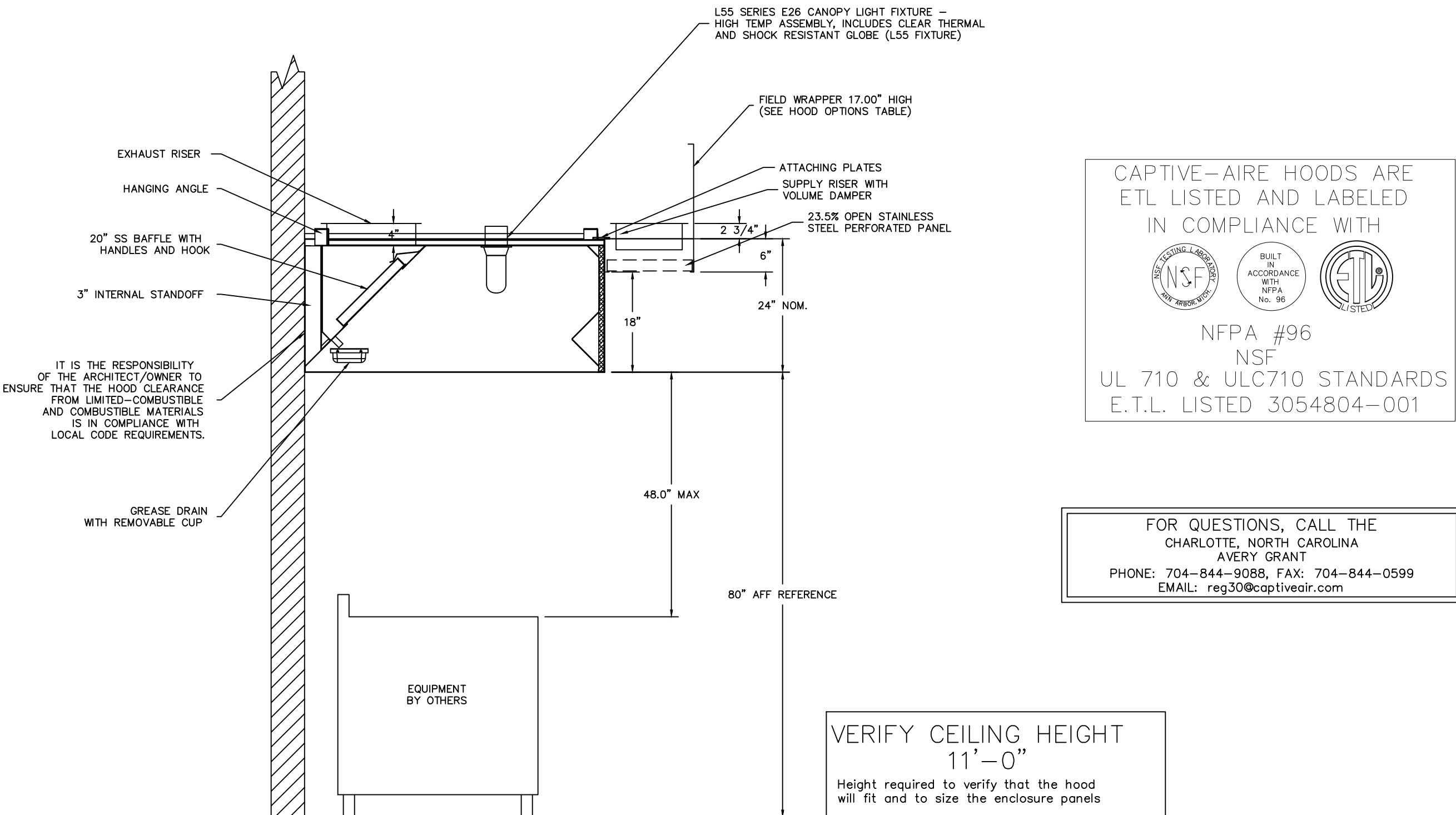
ANSUL PULL STATION DETAIL



EXPOSED REMOTE FIRE PROTECTION
PULL STATION DETAIL



TYPICAL UL300 LIQUID FIRE SYSTEM LAYOUT

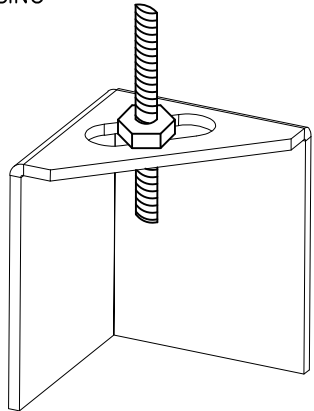


EXHAUST HOOD NOTES

- 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.
- ENTIRE SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH NATIONAL SANITATION FOUNDATION STANDARDS, NFPA-96, NFPA-17-A, AND ALL GOVERNING CODES.
- EXHAUST HOODS SHALL BE PROVIDED WITH A ANSUL R-102 AUTOMATIC FIRE EXTINGUISHING SYSTEM FOR PROTECTION OF THE EXHAUST HOOD, PLENUM, GREASE 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 OPERATION. 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.
- THE INSTALLER OF THE EXHAUST HOOD AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BRIEF OWNER IN ITS OPERATION.
- 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.
- GREASE FILTERS TO BE THE GREASE ELIMINATOR SELF BALANCING TYPE U.L. APPROVED.
- 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.
- U.L. RANGE HOOD: MATERIAL: 18 GAUGE STAINLESS STEEL CONSTRUCTION ON EXPOSED SURFACES 18 GA. GALV. ON EXH. PLENUM ALL CONTINUOUS EXTERNAL LIQUID TIGHT WELDS, POLISHED, FILTERS UL CLASSIFIED Baffle TYPE. SET IN HOOD @ 45 DEGREE ANGLE, INCANDESCENT LIGHT FIXTURES UL LISTED FOR USE IN COMMERCIAL COOKING HOODS. GREASE TRAY BELOW FILTERS WITH REMOVE-ABLE GREASE CONTAINER, LIQUID VOLUME LESS THAN 1 QUART. ALL IN COMPLIANCE WITH NFPA #96 AND LOCAL BUILDING CODES.
- 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.
- RANGE HOOD SUPPLY DUCTS MATERIAL: 22 GALVANIZED SHEET METAL. GAUGES, HANGING AND REINFORCING PER SMACNA STANDARDS.

1/2" DIA. ALL THREAD ROD CONNECTED TO ROOF JOIST THROUGH ANOTHER HANGING ANGLE

1/2" DIA. HEAVY DUTY NUT ONE ABOVE AND ONE BELOW HANGING ANGLE



NOTE:
COORDINATE FINAL INSTALLATION WITH ARCHITECT AND TRUSS COMPANY PRIOR TO INSTALLATION.

*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR
HANGING ANGLE IS PRE-PUNCHED AT FACTORY

ND-2 HANGING ANGLE DETAIL

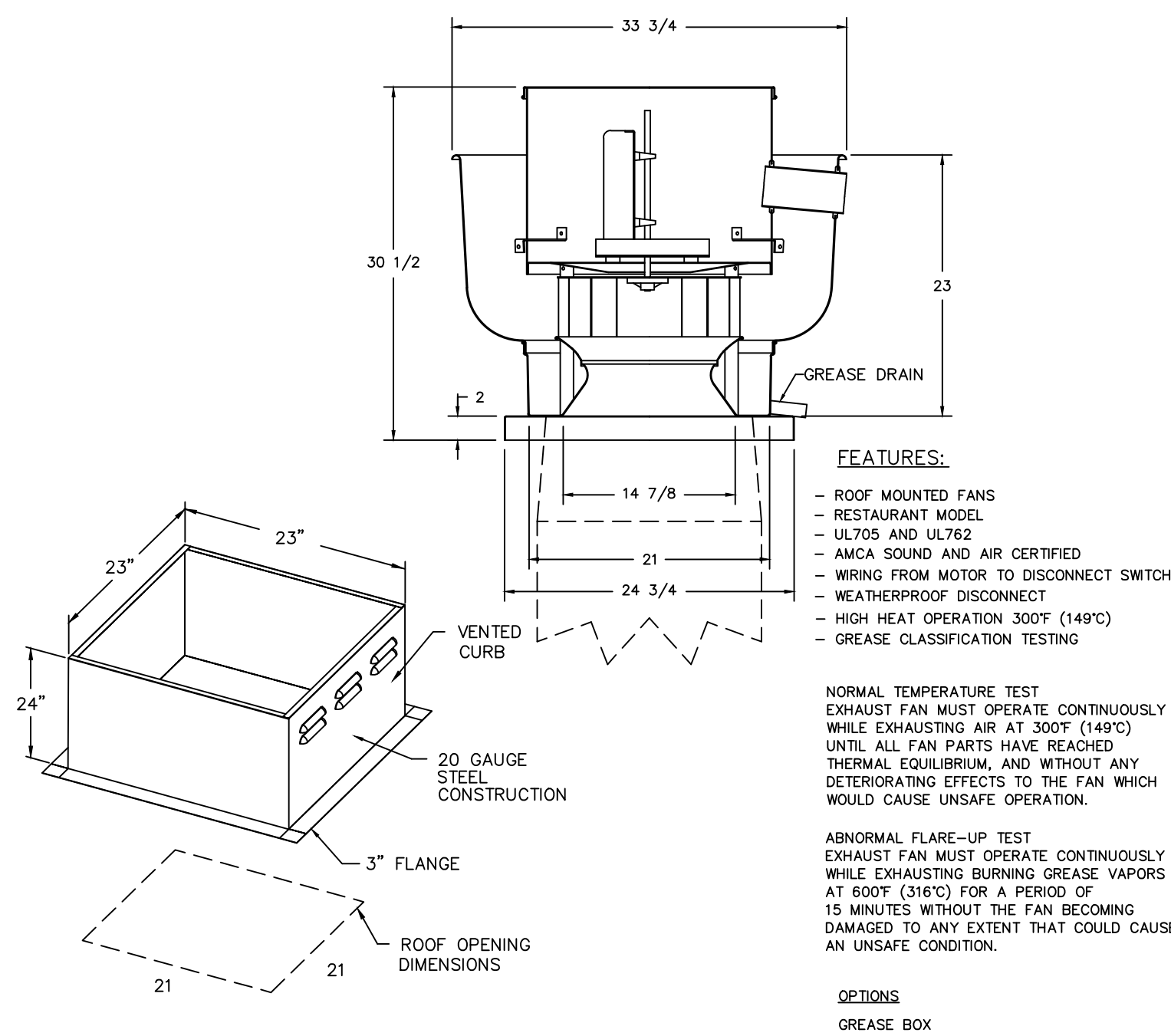
CAPTIVE-AIRE HOODS ARE ETL LISTED AND LABELED IN COMPLIANCE WITH

NSF
BUILT ACCORDANCE WITH NFPA No. 96
ETL
NFPA #96
NSF
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

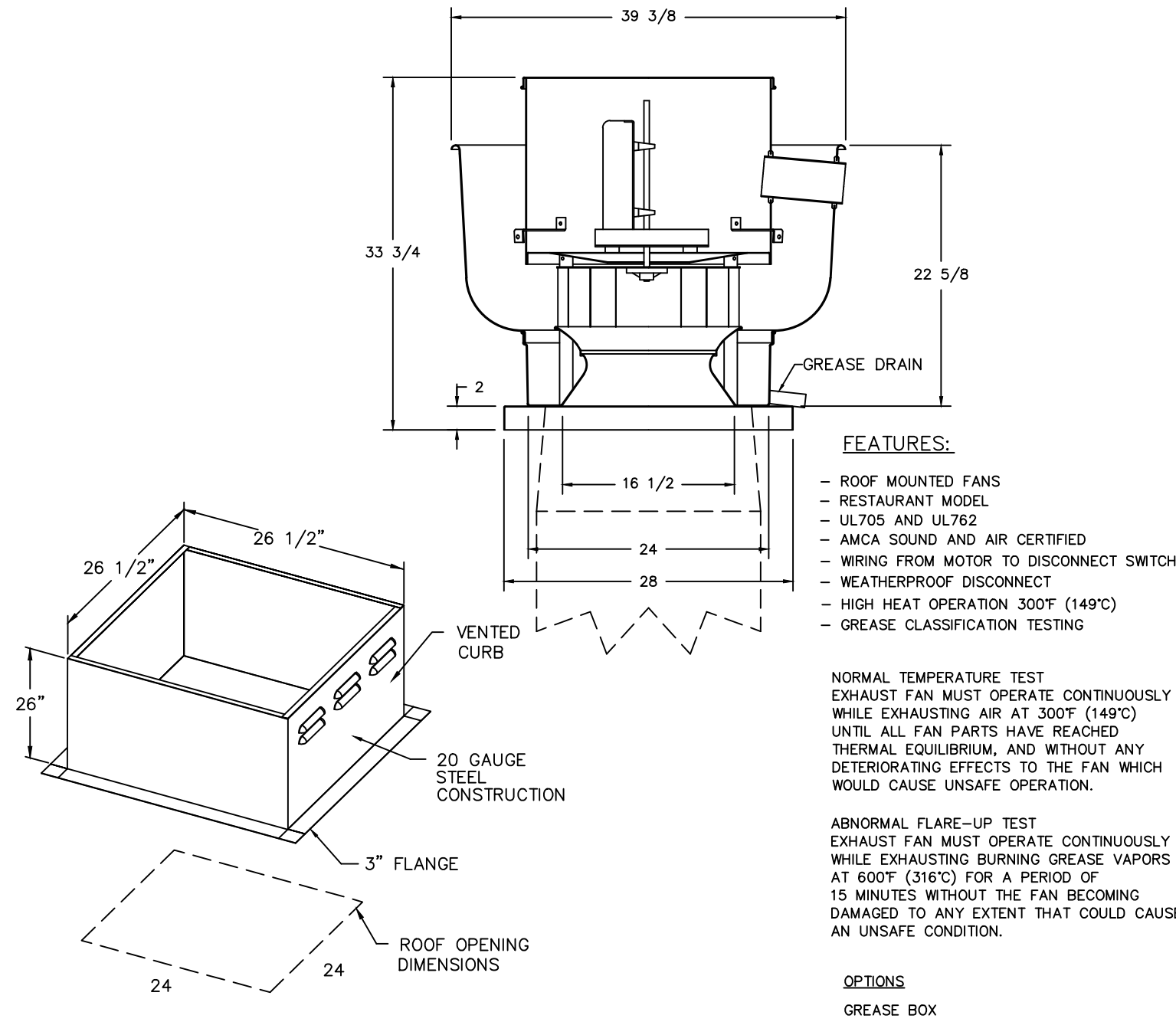
FOR QUESTIONS, CALL THE
CHARLOTTE, NORTH CAROLINA
AVERY GRANT
PHONE: 704-844-9088, FAX: 704-844-0599
EMAIL: reg30@captiveair.com

VERIFY CEILING HEIGHT
11'-0"
Height required to verify that the hood will fit and to size the enclosure panels

REV.	DESCRIPTION	BY
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7		
8		



EF-1 NCA14FA – EXHAUST FAN

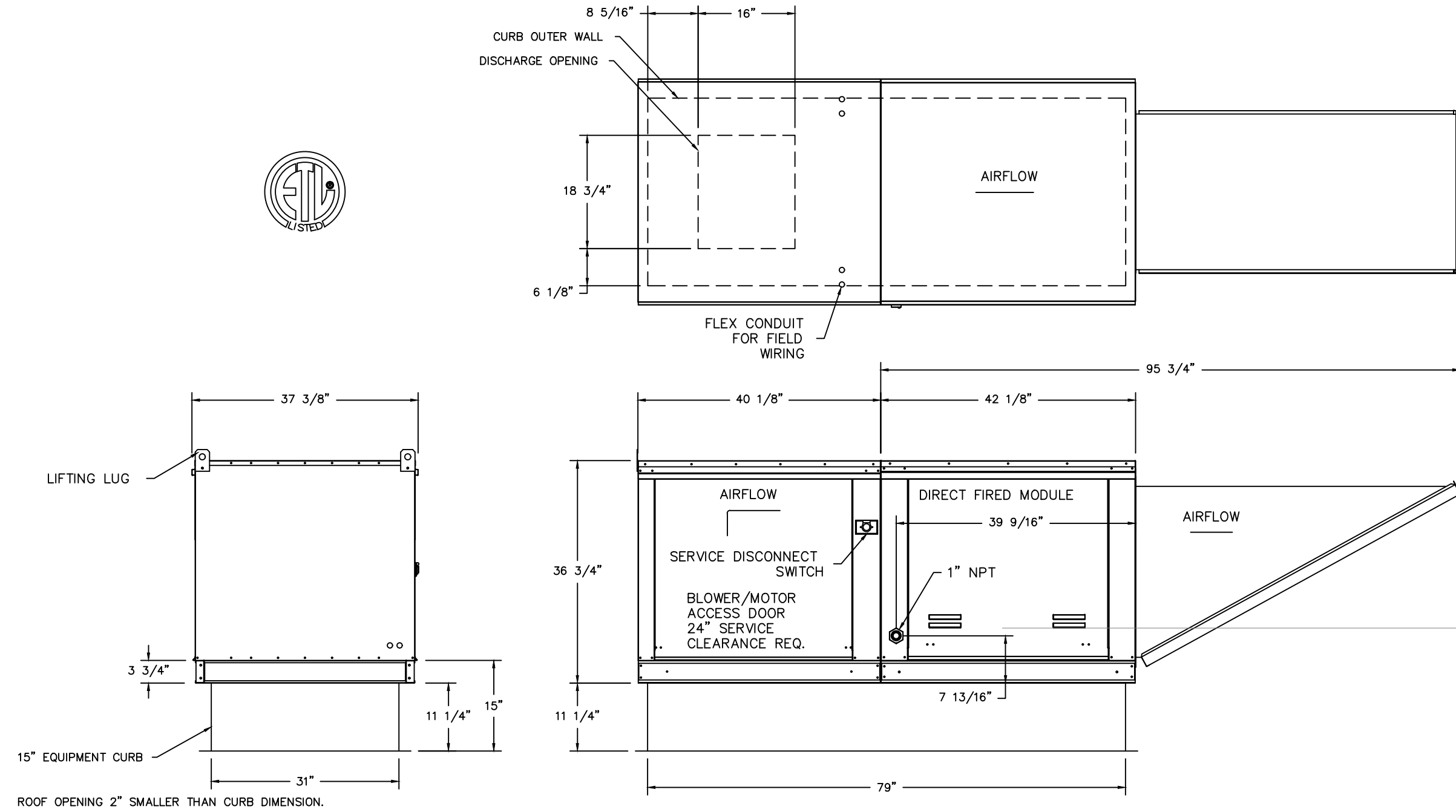


EF-2 NCA16FA – EXHAUST FAN

- DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" BLOWER
- INTAKE HOOD WITH EZ FILTERS
- DOWN DISCHARGE – AIR FLOW RIGHT -> LEFT
- COOLING INTERLOCK RELAY, 24VAC COIL, 120V CONTACTS. LOOKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
- MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR DIRECT FIRED HEATERS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LF120S ACTUATOR INCLUDED
- LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
- GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
- GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE

SUPPLY SIDE HEATER INFORMATION:

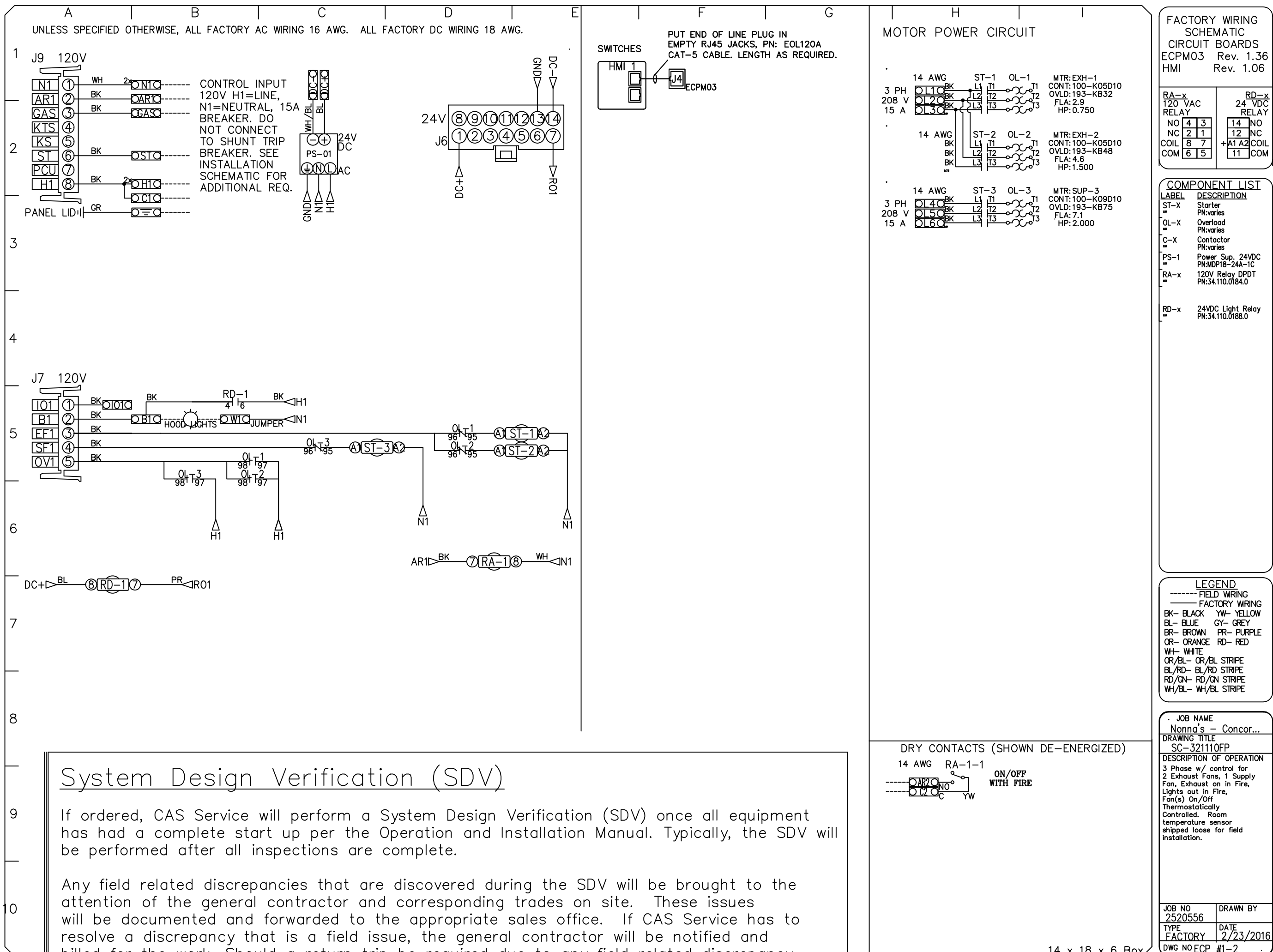
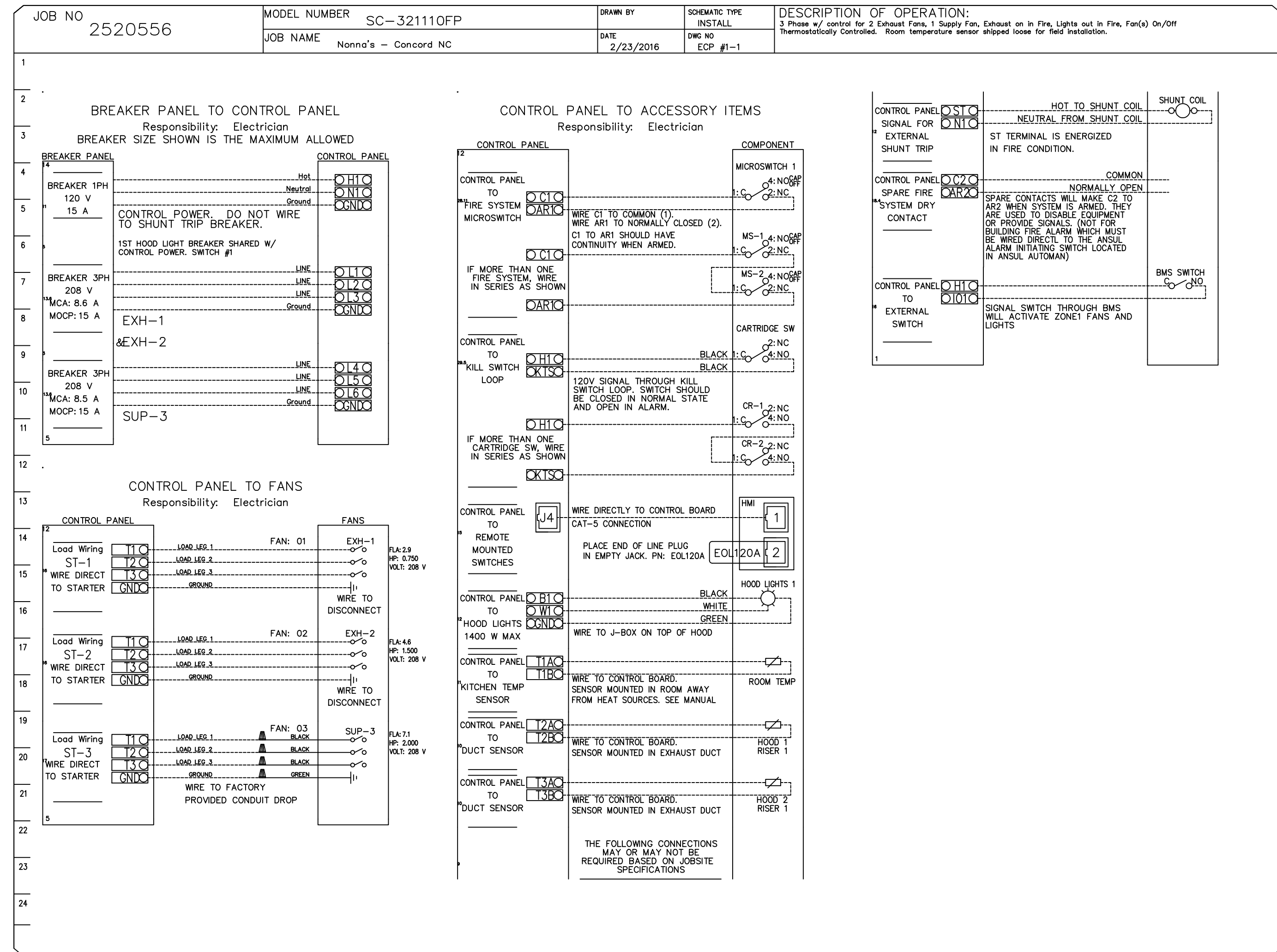
WINTER TEMPERATURE = 20°F. TEMP. RISE = 55°F.
BTUs CALCULATED OFF STANDARD AIR DENSITY
OUTPUT BTUs AT ALTITUDE OF 0.0 ft. = 212890
INPUT BTUs AT ALTITUDE OF 0.0 ft. = 231402



SF-1 – A2-D.250-G15 – HEATER

ELECTRICAL PACKAGES – Job#2520556

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED			
				LOCATION	QUANTITY		TYPE	#	H.P.	VOLT FLA
1		SC-321110FP	Wall Mount In SS Box	Face Mount Right Side of Hood	1 Light	Smart Controls Thermostatic Control	Exhaust	3	0.750	208 2.9
				Hood # 2	1 Fan		Exhaust	3	1.500	208 4.6
							Supply	3	2.000	208 5.9



System Design Verification (SDV)

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

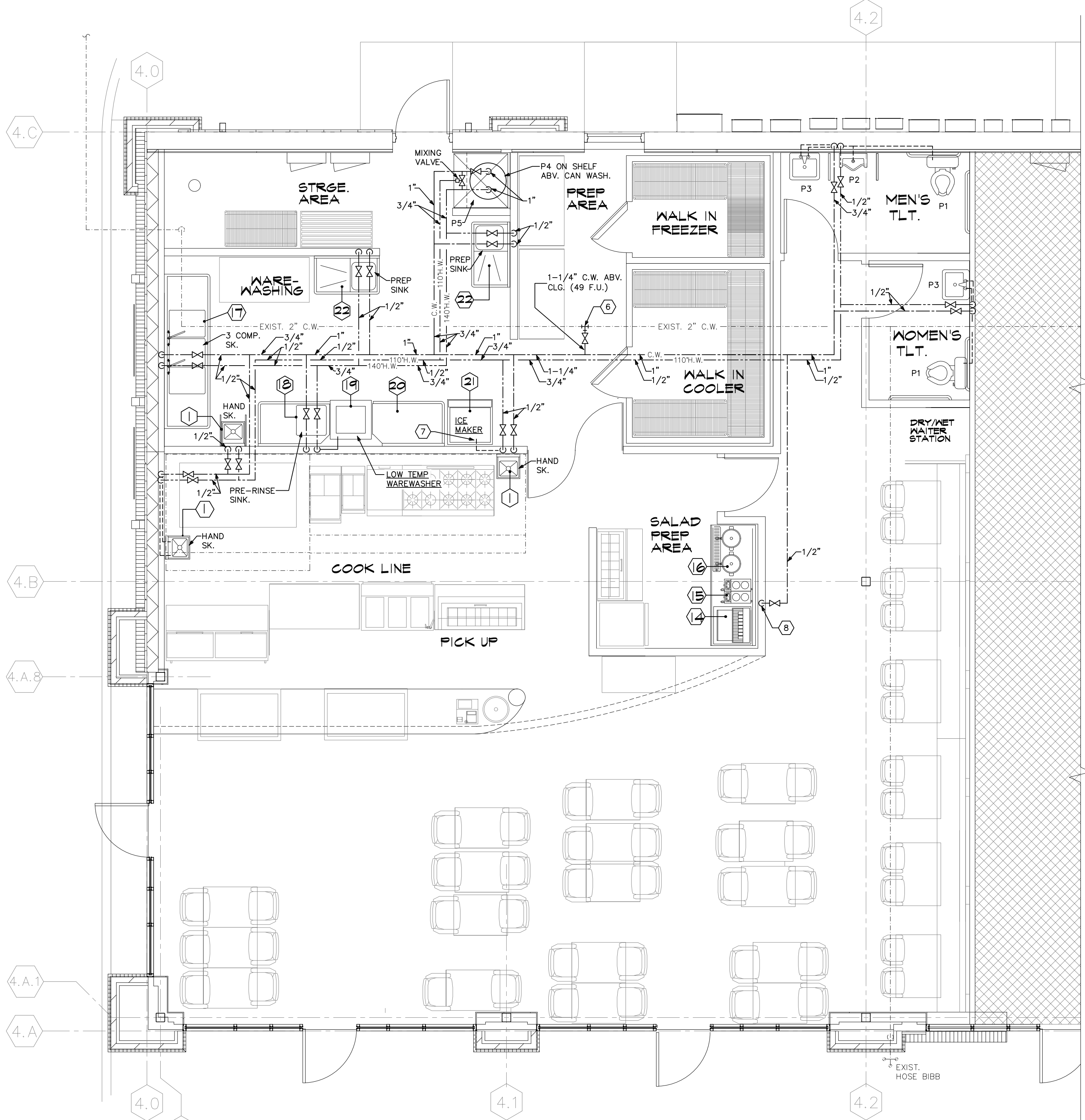
During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

FOOD SERVICE EQUIPMENT SCHEDULE																		
				ELECTRICAL					PLUMBING				GAS		UL/NSF			
ITEM	QTY	SUPPLY GRS	INSTALL GRS	DESCRIPTION	MANUFACTURER	MODEL#	FAUCET MODEL#	V/PH	AMPS	HP	KW	CW	HW	D	W	CONN	BTU	REMARKS
(1)	3	●	●	- HAND SINK W/FAUCET	ADVANCE TARGO	TPS-60	COMES W/SINK TPS-60	-	-	-	-	1/2"	1/2"	D	-	-	-	NSF
(4)	1	●	●	- DRINK DISPENSER	COKE	-	-	15/60/1	-	-	-	1/4"	-	HD	-	-	-	UL NSF
(5)	1	●	●	- COFFEE MAKER	BUNN	-	-	15/60/1	-	-	-	1/4"	-	HD	-	-	-	UL NSF
(6)	1	●	●	- TEA BREWER	BUNN	-	-	15/60/1	-	-	-	1/4"	-	HD	-	-	-	UL NSF
(7)	1	●	●	- THREE COMPARTMENT SINK W/POTRACK	ADVANCE TARGO	FE-3-1024-24RLX	T45 BRASS AND BRONZE HORNS MODEL B-025 (2) FAUCETS *	-	-	-	-	1/2"	1/2"	FS	-	-	-	NSF
(8)	1	●	●	- 4" S.S. SOILED TABLE W/PRE RINSE SINK	-	-	T45 BRASS AND BRONZE HORNS MODEL B-0109 (1) FAUCET *	-	-	-	-	1/2"	1/2"	FS	-	-	-	NSF
(9)	1	●	●	- WAREWASHER/LOW TEMP	ECOLAB/AUTOCLOR	Apex TSC Single	-	-	-	-	-	-	-	FS	-	-	-	37 RACKS PER HOUR
(21)	1	●	●	- ICE MAKER CUBE STYLE 150 LB	MANITOWOC	I-300/BT-150	-	15/60/1	10.8	-	-	3/8"	3/4"	HD	-	-	-	UL NSF
(22)	2	●	●	- PREP SINK	EAGLE	B14-10-1-24L	T45 BRASS AND BRONZE HORNS MODEL B-025 (1) FAUCET *	-	-	-	-	1/2"	1/2"	FS	-	-	-	NSF

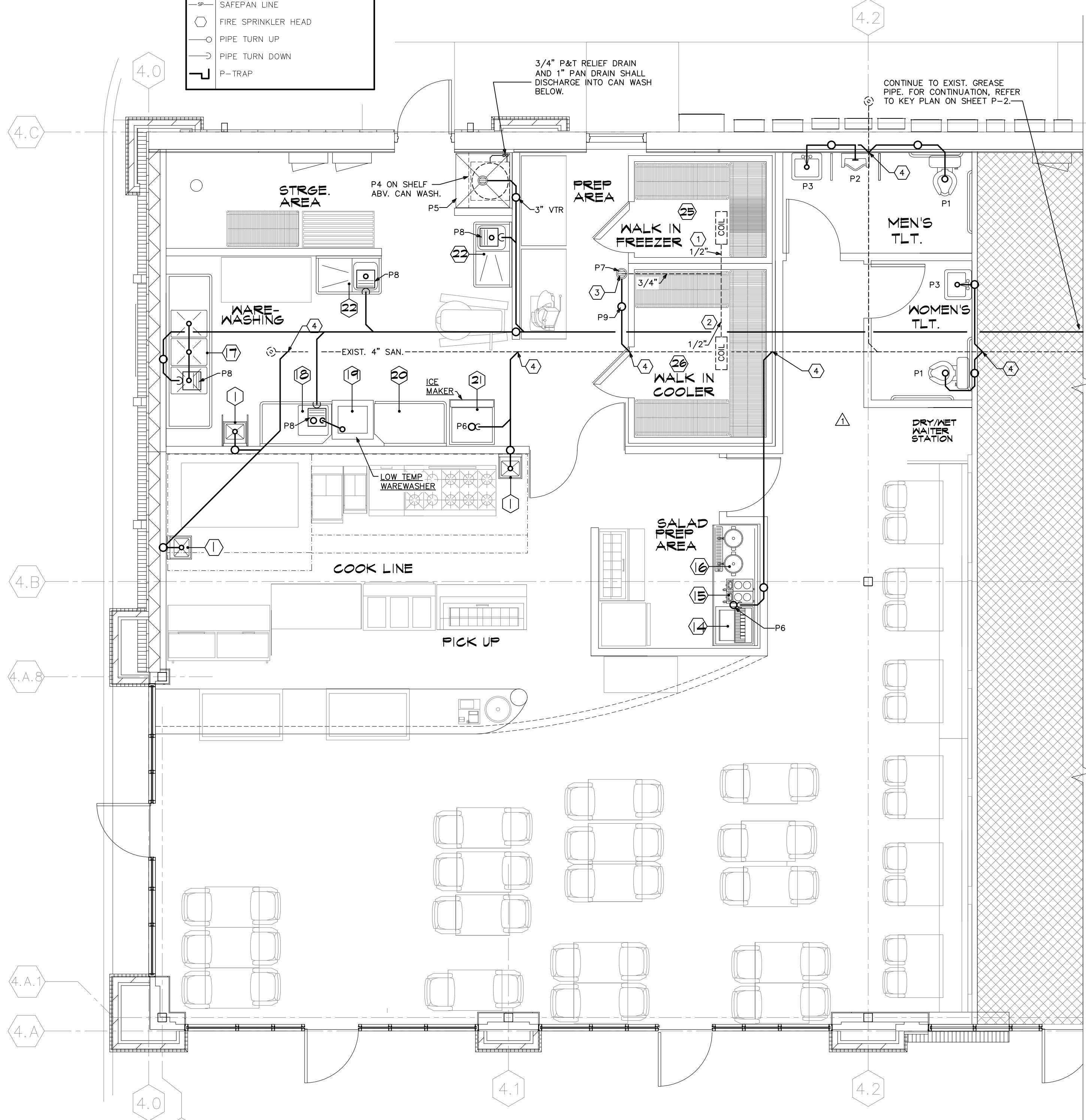
PLUMBING ABBREVIATION LEGEND			
DN.	DOWN	C.C.	CENTER TO CENTER
EXT.	EXTERIOR	N.T.S.	NOT TO SCALE
F.D.	FLOOR DRAIN	MFR.	MANUFACTURER
F.F.	FINISH FLOOR	S.O.V.	SHUT OFF VALVE
A.F.F.	ABOVE FINISH FLOOR	W.C.	WATER CLOSET
V.T.R.	VENT THRU ROOF	LAV.	LAVATORY
TYP.	TYPICAL	SK.	SINK
R.D.	ROOF DRAIN	D.W.	DISH WASHER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

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

SPECIFIC PLUMBING NOTES	
1	1/2" COPPER CONDENSATE LINE (PIPING THRU FREEZER SHALL BE WRAPPED W/ HEAT TAPE & INSULATION).
2	1/2" COPPER CONDENSATE LINE (PIPING THRU COOLER SHALL BE WRAPPED W/INSULATION).
3	3/4" COPPER CONDENSATE LINE TO FLOOR DRAIN. CONNECT TO FLOOR DRAIN VIA A MIN. 2" AIR GAP CONNECTION.
4	CONNECT TO EXIST. SANITARY PIPING BELOW FLOOR IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
5	CONTRACTOR SHALL VERIFY EXISTING SANITARY INVERT ELEVATION AT THIS LOCATION AND CONFIRM THERE IS ENOUGH DEPTH TO CONNECT NEW SANITARY PIPING AT THIS LOCATION PRIOR TO CONSTRUCTION.
6	CONNECT TO EXIST. WATER PIPING ABOVE CEILING IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
7	WATER CONNECTION TO ICE MACHINE SHALL HAVE A BACKFLOW PREVENTER. BACKFLOW FOR EACH MACHINE SHALL BE A "WATTS" SD3 3/8". http://media.wattswater.com/es-sd3.pdf *ASSE 1022 Approved Dual Check with Atmospheric Vent.
8	WATER CONNECTION TO TEA BREWER, COFFEE BREWER AND SODA MACHINE SHALL HAVE A BACKFLOW PREVENTER. BACKFLOW FOR EACH MACHINE SHALL BE A "WATTS" SD3 3/8". http://media.wattswater.com/es-sd3.pdf *ASSE 1022 Approved Dual Check with Atmospheric Vent.



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



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

REV.	DESCRIPTION	BY
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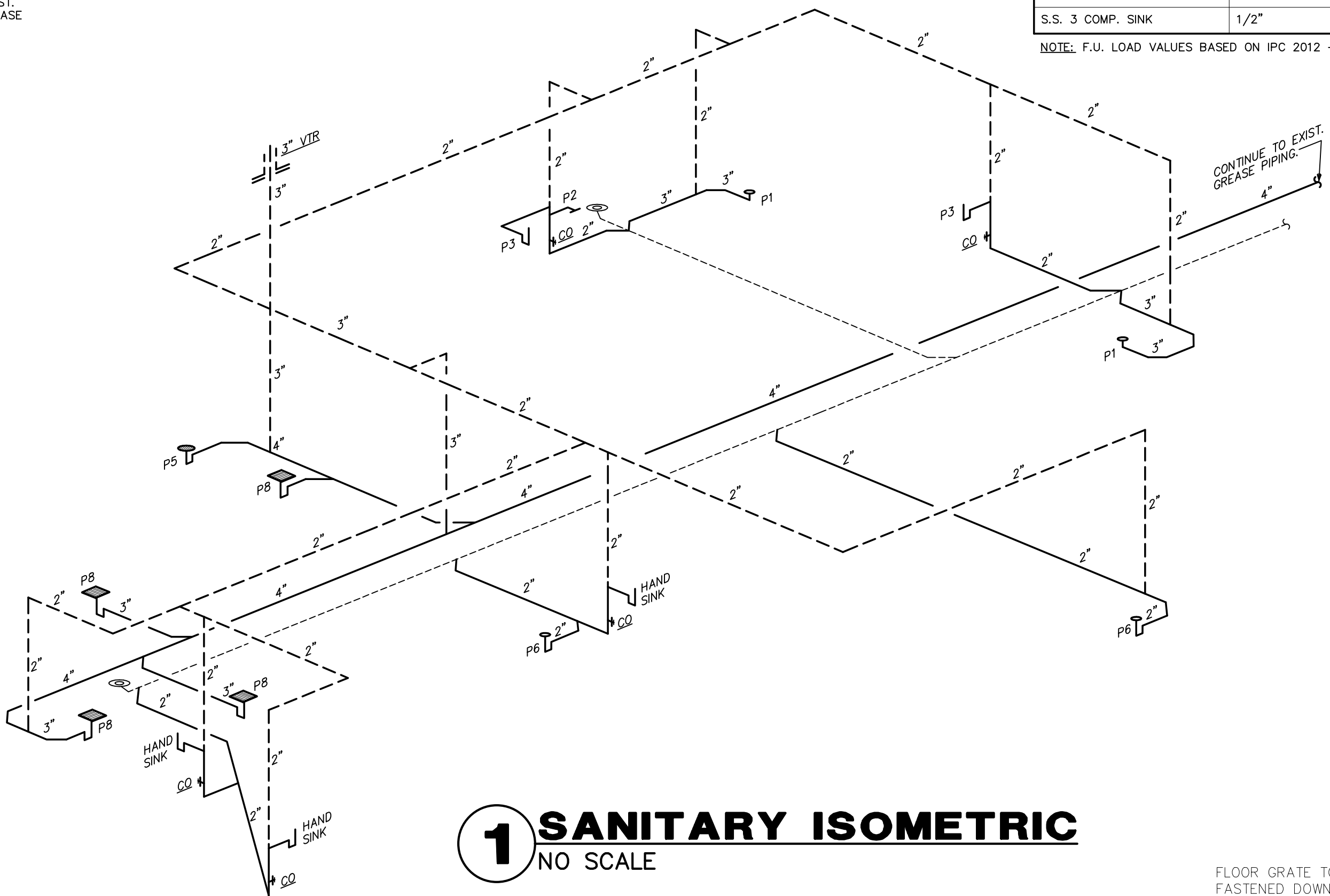
PLUMBING FIXTURE SCHEDULE
P-1 (HANDICAPPED FLOOR MOUNTED FLUSH TANK WATER CLOSET) SHALL BE AN AMERICAN STANDARD MODEL 2467.016 CADET 1.6 GPF RIGHT HEIGHT ELONGATED PRESSURE ASSISTED TOILET. VITREOUS CHINA, LOW-CONSUMPTION (1.6 GPF), CLOSE-COUPLED FLUSHOMETER TANK WITH RISE AND SHINE ELONGATED OPEN FRONT SEAT AND COVER AMERICAN STANDARD MODEL 5325.024 * http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_2669.pdf
P-2 (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-3 (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 METERING 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 .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 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-4 (GAS WATER HEATER - DIRECT VENT - SEALED COMBUSTION) SHALL BE A STATE "ULTRA FORCE" MODEL SUF100 199NE(A) GAS FIRED COMMERCIAL WATER HEATER. 199,900 BTU INPUT TO PRODUCE 235 GALLONS PER HOUR OF HOT WATER AT 100 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/it/spec/comm-gas/SCGS050207.pdf
P-5 (FLOOR MOUNTED INTERIOR CANWASH/MOP RECEPTOR) SHALL BE A FLORESTONE #50 36X36" MOLDED 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 TEEL WALL GUARD. * http://www.florestone.com/mop_sinks/model_50-70.html * http://www.florestone.com/mop_sinks/ms_accessories.html
P-6 (HUB DRAIN - INDIRECT WASTE FUNNEL) SHALL BE A "ZURN" Z326, 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. * http://content.zurn.com/web_documents/pdfs/specsheets/z326.pdf
P-7 (6" FLOOR DRAIN WITH TRAP SEAL) SHALL BE A JOSAM 49340A-3-31 SERIES COATED CAST IRON FLOOR DRAIN. 3" PIPE CONNECTION, 6" DRAIN TOP. STRAINER TYPE 6A. TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEJLOC INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET AND ADJUSTABLE SATIN NICKALOY ROUND SUPER-FLO STRAINER. * http://www.josam.com/p/lost-iron-adjustable-round-top-floor-drain/30000-A FLOOR DRAIN TRAP SEAL SHALL BE A 3" "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-QW. * http://www.thesuresseal.com/Portals/49321/docs/plch_sheet_ss3000.pdf
P-8 (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/JOS/pl=FS/49340A
P-9 (2" STUDOR VENT - AIR ADMITTANCE VALVE) SHALL BE A IPS CORPORATION "STUDOR MINI-VENT". 2" VENT. * http://www.ipscorp.com/plumbing/studor/minivent
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 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 MANUFACTURER'S 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 2" WATER PIPING SHALL BE TYPE "L" COPPER AND TYPE "K" COPPER FOR 2 1/2" AND LARGER. (OR APPROVED EQUAL)
13.) SOIL, WASTES AND VENT PIPING SHALL BE PVC #40 DMY. 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.) 1-1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON BOTH C.W. & H.W. WHEN PIPING IS LOCATED OUTSIDE OF THE INSULATED BUILDING ENVELOPE.

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:		NONNA'S Pizza						
Address:		4995 GEORGE LYLES BLVD. STE.410, CONCRD, 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 compartments for each sink below		Type of prep sink (vegetable, meat, seafood)	Number of compartments			Gallons Per Hour (GPH)		
Prep sink #1		Veg. Prep Sink	1			5		
Prep sink #2		Meat Prep Sink	1			5		
Prep sinks						10		
Prep sinks are calculated at 5 gallons per compartment					Total	10		
Enter the quantity of equipment below		Quantity				Gallons Per Hour (GPH)		
Hand sinks		3				15		
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		(2) Lavatory	6			6		
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	31		
Enter the make, model and Final Rinse Usage in gallons per hour (GPH) for dishmachines		Make	Model	Final Rinse Usage (GPH) Found in Dishmachine Spec sheet below or on manufacturer's spec sheet		Gallons Per Hour (GPH)		
Dishmachine #1		Ecolab	Apex TSC Single	40		28		
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	73		
Recovery Rate Needed (GPH):					182			
Water Heater Input (BTU or KW) Needed:								
Gas Water Heater			Electric Water Heater					
199,000 BTU at 80°F rise			35 kW at 80°F rise					
179,000 BTU at 90°F rise			40 kW at 90°F rise					
199,000 BTU at 100°F rise			44 kW at 100°F rise					

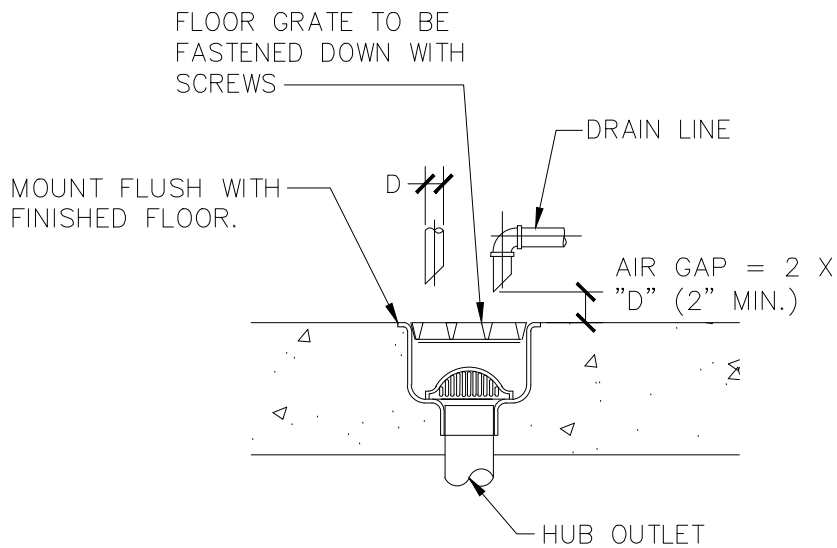
PLUMBING FIXTURE CONNECTION SIZES				
FIXTURE	C.W. CONN. SIZE	H.W. CONNECTION SIZE	SANITARY BRANCH SIZE	F.U. LOAD VALUES
WATER CLOSET (P1)	1/2"	-	3"	5.0
URINAL (P2)	3/4"	-	2"	5.0
LAVATORY (P3)	1/2"	1/2" (110°F)	1-1/4"	2.0
CAN WASH (P10)	1/2"	1/2" (140°F)	3"	4.0
S.S. HAND SINK	1/2"	1/2" (110°F)	1-1/2"	2.0
S.S. PREP SINK	1/2"	1/2" (140°F)	1-1/2"	4.0
S.S. PRE-RINSE SINK	1/2"	1/2" (140°F)	1-1/2"	4.0
S.S. 3 COMP. SINK	1/2"	1/2" (140°F)	1-1/2"	4.0

NOTE: F.U. LOAD VALUES BASED ON IPC 2012 - APPENDIX E TABLE E103.3(2)



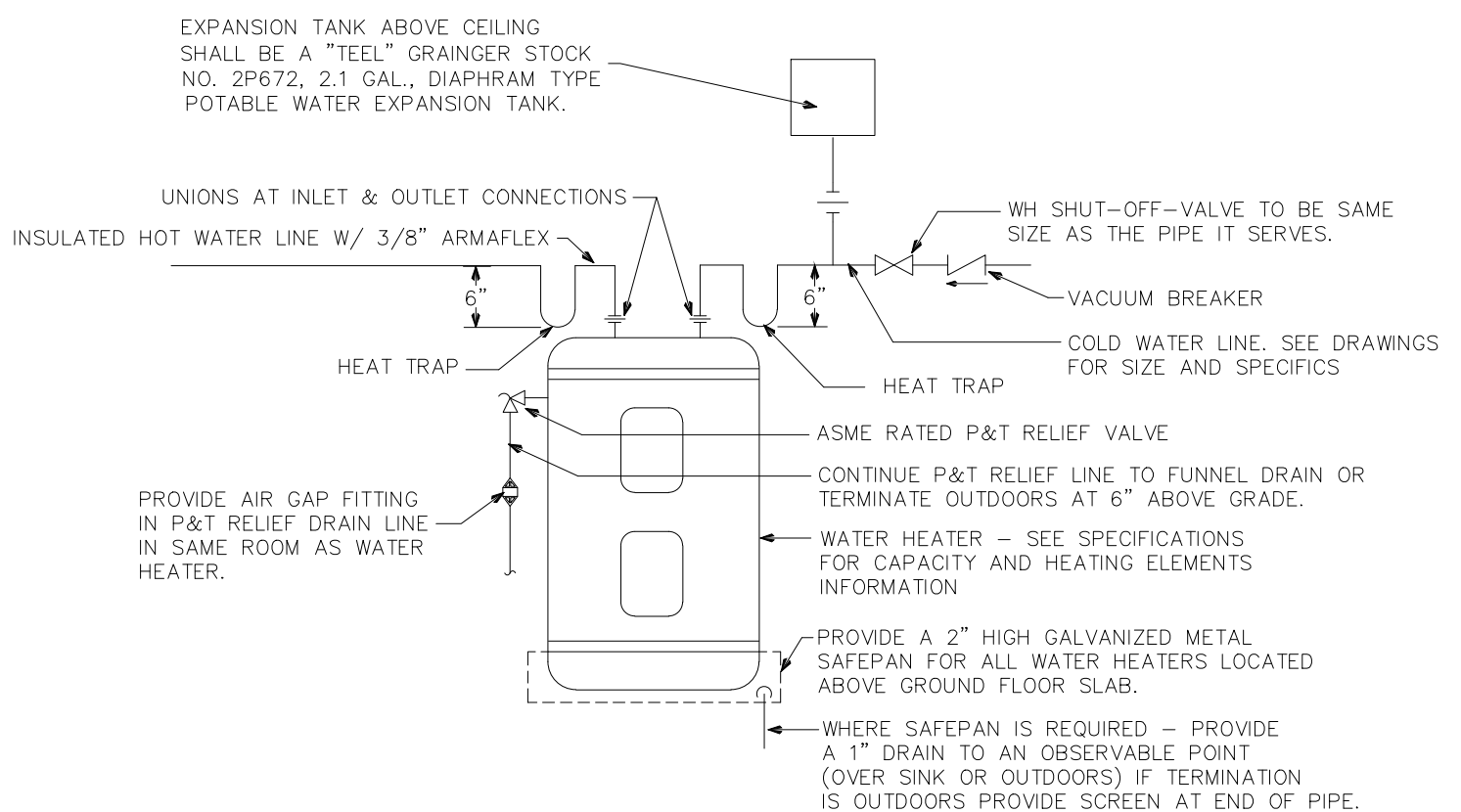
1 SANITARY ISOMETRIC

NO SCALE



2 FLOOR SINK CONN. DETAIL

NO SCALE



3 WATER HEATER DETAIL

NO SCALE

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"		OKT. 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 MTD. +47"		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
	F.L.R. MTD. FLUSH DUPLEX RECEPTACLE		BELOW COUNTER
	F.L.R. MTD. FLUSH QUAD. RECEPTACLE		TIME CLOCK - 24 HOUR
	F.L.R. MTD. FLUSH PHONE/DATA OUTLET		GROUND FAULT INTERRUPTER
	F.L.R. 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 W/TH STROBE LIGHT, MTD. +80" # BESIDE DEVICE IS CANDELLA RATING		FIRE ALARM ANNUNCIATOR PANEL
	STROBE LIGHT ONLY, MTD. +80" # BESIDE DEVICE IS CANDELLA RATING		

2 ELECTRICAL SERVICE RISER

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 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.
- 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.
- 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.
- MATERIALS: THE MATERIALS AND EQUIPMENT FURNISHED SHALL BE AS INDICATED ON THE DRAWINGS; SUBSTITUTIONS 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.
- GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC.
- SHARED NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED UNLESS INSTALLED IN ACCORDANCE WITH NEC-210.4.
- 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 24" BELOW FINISHED GRADE. PVC CONDUIT INSTALLED ABOVE GRADE OR DIRECT-BURIED 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).

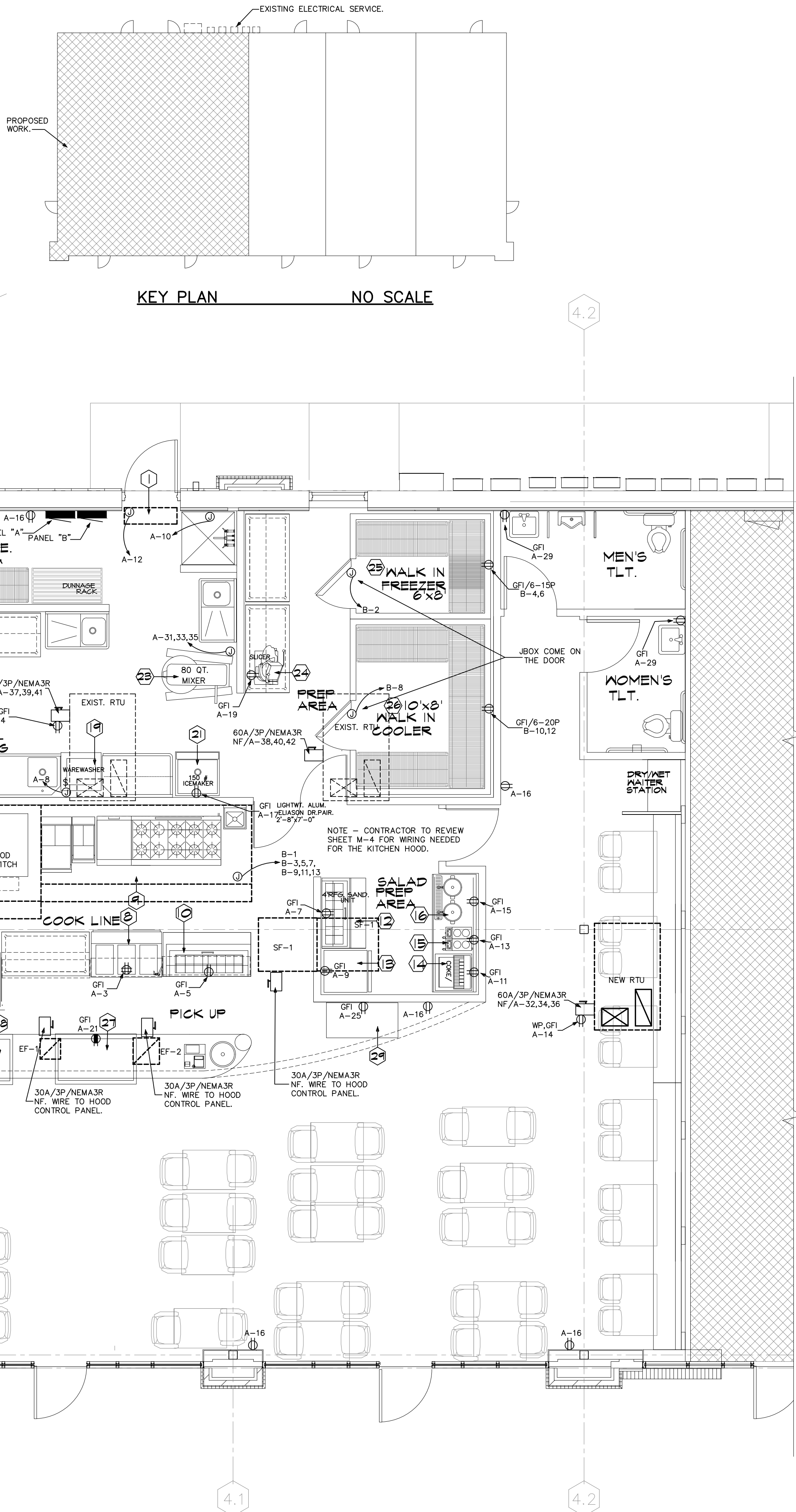
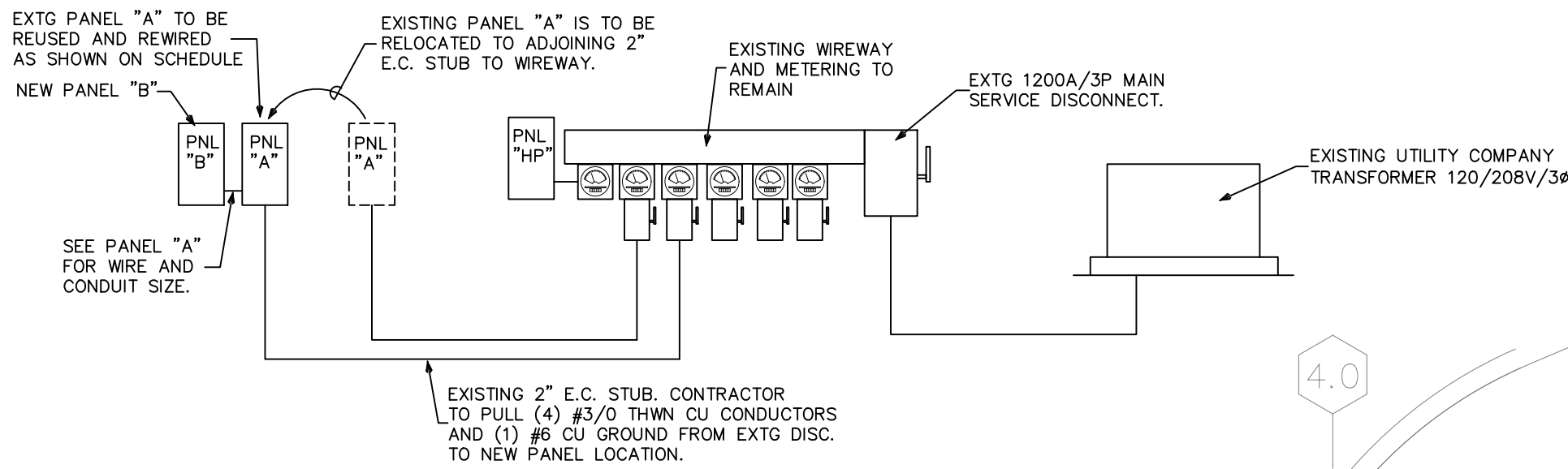
ALL ARMOR CLAD CABLE (AC CABLE) WIRING SHALL MEET OR EXCEED ALL NEC, OSHA AND HUD STANDARDS.
- CONDUCTORS: CONDUCTORS SHALL BE AS SCHEDULED ON PANEL SCHEDULES. ALL POWER CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG (CU), OR #12 AWG (AL). CONTROL CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #18 AWG CU. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET WITHOUT SPLICES EXCEPT WITHIN WIREWAY OR JUNCTION BOXES. MARK CONDUCTORS IN PANELS, PULL BOXES OR WIREWAYS 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 TIGHT 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+ OR #68 PLASTIC TAPE. SPLICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL TAPE AND ENCAPSULATED WITH SCOTCHCAST OR EQUAL POTTING COMPOUND.
- 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.
- 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.
- 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.
- TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT IS TO HAVE TERMINALS RATED FOR 75° C. OPERATION.

NONNA'S PIZZA RESTAURANT

FOOD SERVICE EQUIPMENT SCHEDULE

		ELECTRICAL				PLUMBING				GAS		UL/NSF				
ITEM	QTY	SUPPLY	INSTALL	DESCRIPTION	MANUFACTURER	MODEL#	V/PH	AMPS	HP	KW	CW	HW	WT	CONN	BTU	REMARKS
1	1	●	●	AIR CURTAIN	HARS	ST20R-10A	120	4.4	1/2	-	-	-	-	-	-	UL NSF
2	1	●	●	4" X 12" PIZZA PREP TABLE	BEVERAGE AIR	DR-6T	115V/60	6.3	1/4	-	-	-	-	-	-	UL NSF
3	1	●	●	1" COMMERCIAL KITCHEN HOOD	CAPTIVE - AIRE	6424HD-2	120	12.5	-	-	-	-	-	-	-	UL NSF
4	1	●	●	HOT FOOD SERVING CTR.	CHSE	8300	120	12.5	-	-	-	-	-	-	-	UL NSF
11	1	●	●	11" COMMERCIAL KITCHEN HOOD	CAPTIVE - AIRE	5424HD-2	120	12.5	-	-	-	-	-	-	-	UL NSF
10	1	●	●	3" SANDWICH UNIT	BEVERAGE AIR	SP600-6	115V/60	1.6	1/8	-	-	-	-	-	-	UL NSF
12	1	●	●	4" SANDWICH UNIT	BEVERAGE AIR	SP648-12H	115V/60	6.3	1/4	-	-	-	-	-	-	UL NSF
13	1	●	●	BREAD IN RFG	TRUE HFG	TS-4H	115V/60	13.2	3/4	-	-	-	-	-	-	UL NSF
14	1	●	●	CRUSH DISPENSER	GOZE	-	115V/60	-	-	-	1/4"	HD	-	-	-	UL NSF
15	1	●	●	COFFEE MAKER	BUNN	-	115V/60	-	-	-	1/4"	HD	-	-	-	UL NSF
16	1	●	●	TEA BREWER	BUNN	-	115V/60	-	-	-	1/4"	HD	-	-	-	UL NSF
17	1	●	●	HANDWASH/IRON TWP	ECOLAB/ANTOCLOR	-	115V/60	11.4	-	-	-	-	PS	-	-	31 RACKS PER HOUR
21	1	●	●	SPRINKLER CUBE STYLE 150 LB	HANITRONICS	1500BHT-150	115V/60	12.8	-	-	3/4"	HD	-	-	-	UL NSF
23	1	●	●	NO GRINDER	SLORE FOOD EQUIP.	SP90PL	208V/60	12	-	-	-	-	-	-	-	ETL NSF
24	1	●	●	SLICER	SLORE FOOD EQUIP.	C-12	115V/60	6.3	1/8	-	-	-	-	-	-	UL NSF
25	1	●	●	4WD WALK IN FREEZER	NOR LAK	ULF60-C	208V/60	13	1	-	-	-	-	-	-	UL NSF
26	1	●	●	4WD WALK IN COOLER	NOR LAK	ULF110B-C	208V/60	8.6	3/8	-	-	-	-	-	-	UL NSF
27	1/2	●	●	RFID DISPLAY CASE	FEDERAL	-	115V/60	-	-	-	-	-	-	-	-	UL NSF
28	1	●	●	FUTURE ESPRESSO MACHINE	-	-	115V/60	-	-	-	-	-	-	-	-	UL NSF
29	1	●	●	4" BACKBAR COOLER	TRUE HFG	TBD 24-400	115V/60	1.6	1/8	-	-	-	-	-	-	UL NSF
30	1	●	●	DOUGH SHEETER	DOYON	DL58 SP	120V/60	1.6	1/8	-	-	-	-	-	-	ETL NSF



1 FLOOR PLAN - POWER

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

REV.	DESCRIPTION	BY
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

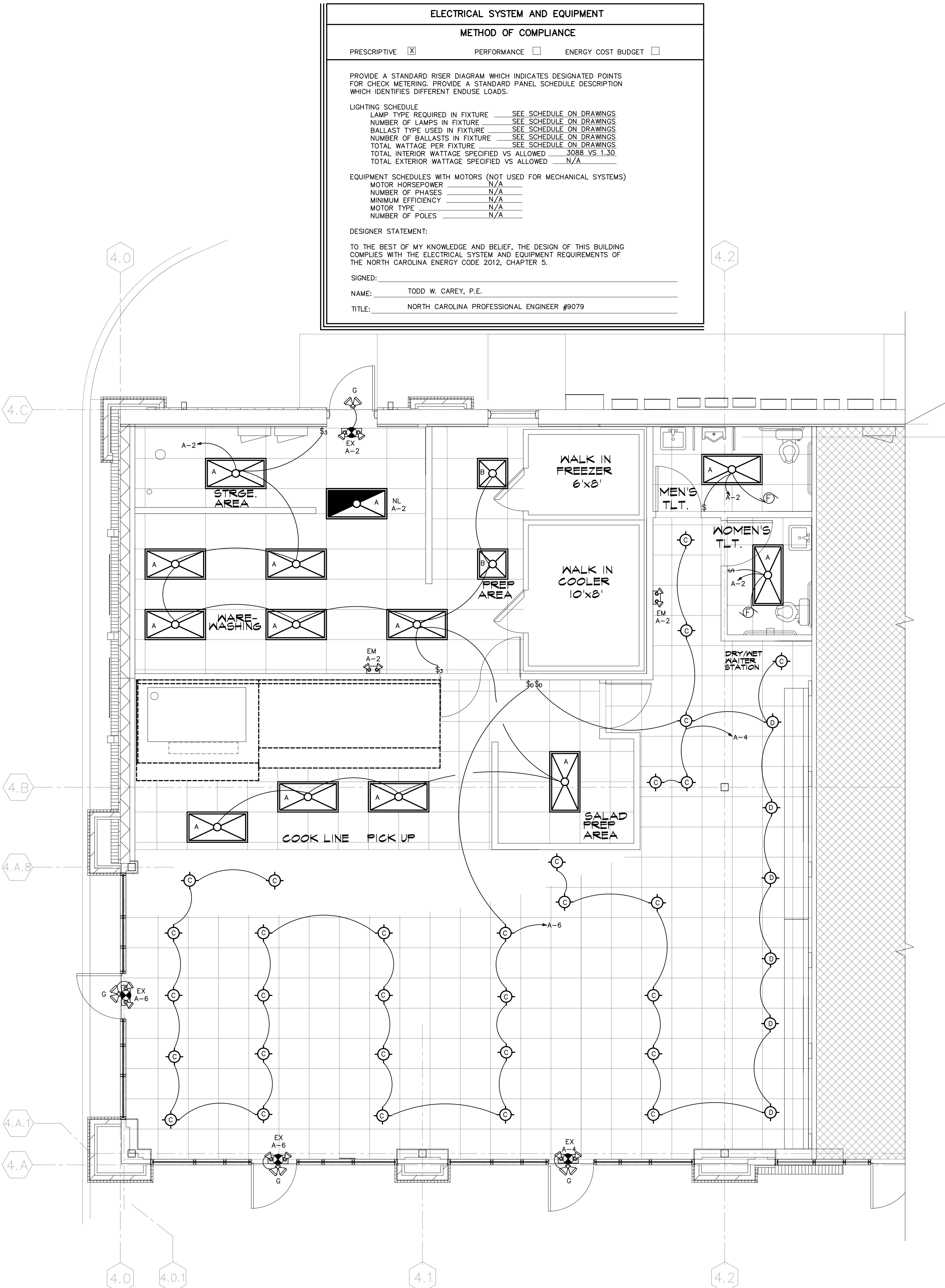
PANEL SCHEDULE A																								
225 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE																								
#	BKR.	WIRE AND CONDUIT					LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT					BKR.	#					
		COND.	NEUTRAL	GND	C.	KEYS							KEYS	C.	GND	NEUTRAL	COND.							
1	20/1	#12	#12	#12	1/2	CHAL	PIZZA LAMP WARMER	756	756			KITCHEN AND BATH LIGHTS	CHAL	1/2	#12	#12	#12	20/1	2					
3	20/1	#12	#12	#12	1/2	CHAL	FOOD WARMER	1500	1500			DINNING AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	4					
5	20/1	#12	#12	#12	1/2	CHAL	SANDWICH UNIT	700	700			DINNING AREA LIGHTS	CHAL	1/2	#12	#12	#12	20/1	6					
7	20/1	#12	#12	#12	1/2	CHAL	SANDWICH UNIT #2	700	700			DISH WASHER	CHAL	1/2	#12	#12	#12	20/1	8					
9	20/1	#12	#12	#12	1/2	CHAL	UC REACH IN REFRIGERATOR	1368	1368			WATER HEATER	CHAL	1/2	#12	#12	#12	20/1	10					
11	20/1	#12	#12	#12	1/2	CHAL	DRINK DISPENSER	528	528			FLYFAN	CHAL	1/2	#12	#12	#12	20/1	12					
13	20/1	#12	#12	#12	1/2	CHAL	COFFEE MAKER	720	720			ROOF SERVICE RECEPTACLES	CHAL	1/2	#12	#12	#12	20/1	14					
15	20/1	#12	#12	#12	1/2	CHAL	TEA BREWER	720	720			RECEPTACLES	CHAL	1/2	#12	#12	#12	20/1	16					
17	20/1	#12	#12	#12	1/2	CHAL	ICE MAKER	1080	1080			SPACE							18					
19	20/1	#12	#12	#12	1/2	CHAL	SLICER	756	756			SPACE							20					
21	20/1	#12	#12	#12	1/2	CHAL	DISPLAY CASE	600	600			SPACE							22					
23	20/1	#12	#12	#12	1/2	CHAL	ESPRESSO MACHINE	600	600			SPACE							24					
25	20/1	#12	#12	#12	1/2	CHAL	BACKBAR COOLER	912	912										26					
27	20/1	#12	#12	#12	1/2	CHAL	DOUGH SHEETER	1080	1080			PANELBOARD 'B'	CHAL	1-1/4	#6	#2	#2	125/3	28					
29	20/1	#12	#12	#12	1/2	CHAL	BATHROOM RECEPTACLES	432	432										30					
31								1080	1440										32					
33	20/3	#12	---	#12	1/2	CHAL	80 QT. MIXER	0	2244			RTU #1 NEW	CHAL	1/2	#12	---	#12	30/3	34					
35								0	2244										36					
37								0	3600										38					
39	40/3	#8	---	#10	3/4	CHAL	EXISTING RTU UNIT #1	0	3600			EXISTING RTU UNIT #2	CHAL	3/4	#12	---	#8	40/3	40					
41								0	3600										42					
WIRE/CONDUIT KEY								22814 22367 20099								PEAK PHASE (B) UNBALANCED NEUTRAL LOAD AMPS = 73.1 AMPS								
C-CU WIRE								65,280								NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 181.3 AMPS								
L-TEMP RATING								PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001								REGISTERED TO - TODD W. CAREY AND ASSOCIATES								
L-CONDUIT TYPE																								
L-INSULATION																								
L-WIRING TYPE																								

PANEL SCHEDULE B																					
125 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	WIRE AND CONDUIT				BKR.	#			
		COND.	NEUTRAL	GND	C.	KEYS							KEYS	C.	GND	NEUTRAL			COND.		
1	15/1	#14	#14	#14	1/2	CHAL	CONTROL POWER	1320	1320	-----	-----	FREEZER LIGHTS AND HEATER	CHAL	1/2	#12	#12	#12	20/1	2		
3								0	960	-----	-----	FREEZER POWER	CHAL	1/2	#12	#12	#12	20/2	4		
5	15/3	#14	---	#14	1/2	CHAL	EXHAUST FAN 1 AND 2	0	-----	-----	-----	COOLER LIGHTS AND HEATER	CHAL	1/2	#12	#12	#12	20/1	8		
7								0	-----	-----	-----	COOLER POWER	CHAL	1/2	#12	#12	#12	20/2	12		
9								0	960	-----	-----	COOLER LIGHTS AND HEATER	CHAL	1/2	#12	#12	#12	20/1	8		
11	15/3	#14	---	#14	1/2	CHAL	SUPPLY FAN #1	0	-----	-----	-----	COOLER POWER	CHAL	1/2	#12	#12	#12	20/2	12		
13								0	-----	-----	-----	COOLER POWER	CHAL	1/2	#12	#12	#12	20/2	12		
15							SPACE	0	0	-----	-----	SPACE							14		
17							SPACE	0	0	-----	-----	SPACE							16		
19							SPACE	0	0	-----	-----	SPACE							18		
21							SPACE	0	0	-----	-----	SPACE							20		
23							SPACE	0	0	-----	-----	SPACE							22		
25							SPACE	0	0	-----	-----	SPACE							24		
27							SPACE	0	0	-----	-----	SPACE							26		
29							SPACE	0	0	-----	-----	SPACE							28		
31							SPACE	0	0	-----	-----	SPACE							30		
33							SPACE	0	0	-----	-----	SPACE							32		
35							SPACE	0	0	-----	-----	SPACE							34		
37							SPACE	0	0	-----	-----	SPACE							36		
39							SPACE	0	0	-----	-----	SPACE							38		
41							SPACE	0	0	-----	-----	SPACE							40		
43							SPACE	0	0	-----	-----	SPACE							42		
WIRE/CONDUIT KEY								5352 3787 3787								PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 27 AMPS					
1234								12,926								NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 35.9 AMPS					
L-TEMP RATING								PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001								REGISTERED TO - TODD W. CAREY AND ASSOCIATES					
L-CONDUIT TYPE																					
L-INSULATION																					
L-WIRING TYPE																					

PANEL B DIVERSIFICATION CALCULATIONS			
MOTOR LOADS AT 100%	-	6336	
PLUS 25% OF THE LARGEST MOTOR	-	675	
MISC NON-CONTINUOUS LOADS AT 100%	-	1320	
KITCHEN EQUIPMENT (4)	-	3659 X 0.8	
	-	4215	
TOTAL DIVERSIFIED PANEL LOAD	-	12546	
LOAD AT 120/208V/3-PHASE/4-WIRE	-	34.9A	

PANEL A DIVERSIFICATION CALCULATIONS			
RECEPTACLES (10)	-	1872 VA TOTAL	
FIRST 10 KVA AT 100%	-	1872	
LIGHTING	-	2350 X 125%	
	-	2938	
HVAC LOAD AT 100%	-	28032	
MOTOR LOADS AT 100%	-	6864	
PLUS 25% OF THE LARGEST MOTOR	-	2700	
MISC NON-CONTINUOUS LOADS AT 100%	-	1920	
KITCHEN EQUIPMENT (20)	-	23941 X 0.65	
	-	15562	
TOTAL DIVERSIFIED PANEL LOAD	-	60188	
LOAD AT 120/208V/3-PHASE/4-WIRE	-	167.2A	

LIGHTING FIXTURE SCHEDULE							
LABEL	TYPE OF FIXTURE	FINISH	LENS TYPE	VOLTAGE	LAMP	MANUFACTURER & MODEL NO.	REMARKS
A	RECESSED 2'X4' TROFFER	WHITE	LED	120	TTROFFER	COLUMBIA LJ724 30 G U	
B	RECESSED 2'X2' TROFFER	WHITE	LED	120	TROFFER	COLUMBIA LJ722 30 G U	
C	6" DOWNLIGHT	WHITE	LED	120	32.5W	LITEFRAME L06LED120DM-6LCE0530WT	DIMMER - IP06-10
D	PENDANT FIXTURE	YELLOW	LED	120	9W	LITON SP204MS TROY 9W/500 LUMEN	
EM	EMERGENCY EGRESS	WHITE		120	INCLUDED	LITHONIA ELM2	W/ BATTERY BACKUP
EM1	EMERG EGRESS W/ REM HEAD	WHITE		120	INCLUDED	LITHONIA ELM6-12	W/ MODEL NX DUAL REMOTE HEAD. 90 MIN BATTERY
EX	EXIT SIGN	WHITE	RED	120	INCLUDED	LITHONIA LE-SW2R-120/277-ELN	W/ BATTERY BACKUP
F	EXT. FLUORESCENT WALL MTD	BRONZE	POLYCARBONATE	120	(1) 28WDTT	LITHONIA TWL-280TT-120	
G	TWIN LAMPHOLDER / FLOOD	BRNZ		120	(2) 150W MAX PAR	LITHONIA OFTH300PR-120-P-BZ	(P)-PHOTOCCELL OPTION



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

REV.	DESCRIPTION	BY
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