	PACKAGED	ROOF TOP UNIT	SCHEDULE	(LENNOX MODELS TO BE SPECIFIED)			
UNIT	SYMBOL	(NEW)	(NEW)	(NEW)			
LOCA	ATION	ROOF	ROOF	ROOF			
NER	SA CFM (TONS)/ OA CFM	2,400 (6-TON)/ 500	4,000 (10-TON)/ 750	4,000 (10-TON)/ 750			
BLOWER	TSP (IN W.G.)	0.88"	1.24"	1.24"			
	TOTAL (BTU/HR)	72,400	121,200	121,200			
5NI-	SENSIBLE (BTU/HR)	57,200	94,300	94,300			
COOLING	AMBIENT (F)	95	100	100			
	COIL ENTERING	67 WB/80 DB	67 WB/81 DB	67 WB/81 DB			
HEAT	ING (NATURAL GAS BTU/HR)	STAGE (1) 81,000 STAGE (2) 108,000	STAGE (1) 144,000 STAGE (2) 180,000	STAGE (1) 144,000 STAGE (2) 180,000			
	POWER SUPPLY	208V/3Ph/60HZ	208V/3Ph/60HZ	208V/3Ph/60HZ			
٩٢	COMPRESSOR (RLA)	19.6	(2) 27.0	(2) 27.0			
ELECTRICAL	CONDENSER MOTOR (FLA)	(1) 2.4	(1) 4.8	(1) 4.8			
H	EVAPORATOR MOTOR (FLA)	4.6	10.6	10.6			
	MIN. CIRCUIT AMPACITY	32, HACR = 45	52, HACR = 60	52, HACR = 60			
SUBSTITFOR PRICE LEGISTON TECHNIC TECH SUNSTALL NATS@LALL INQUARTE OF THE PRICE TO THE PRICE TECH SUNSTALL TO TECH SUNSTALL TO THE PRICE TO THE PRICE TECH SUNSTALL TO THE PRICE TECH S	NATIONAL ACCOUNT. NO TUTES ALLOWED. CING AND ORDERS EMAIL ationalAccounts@Lennoxind.com L 800-367-6285 EXT #1 FOR MER SERVICE. EXT #2 FOR CAL SUPPORT. JPPORT EMAIL FOR ATION QUESTIONS Lennoxind.com UIRIES SHOULD INCLUDE "PANDA S, STORE # AND CITY/STATE"	BY LENNOX MODEL LGT074H4T DOWN DISCHARGE COMPLETE WITH 24" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. OPER. WT.: 950 LBS APPROX. IEER=17.0, EER=12.2	BY LENNOX MODEL LGT120H4M DOWN DISCHARGE COMPLETE WITH 24" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLEL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. OPER. WT.: 1,500 LBS APPROX. IEER=15.5, EER=12.1	BY LENNOX MODEL LGT120H4M DOWN DISCHARGE COMPLETE WITH 24" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLEL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. OPER. WT.: 1,500 LBS APPROX. IEER=15.5, EER=12.1			

ALL ITEMS RELATED TO HVAC SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. CONTACT LENNOX REPRESENTATIVE ABOVE.

· THERMOSTATS: REMOTE SENSOR TYPE, 24/7 PROGRAMMABLE AND CAPABLE OF OPERATING ROOFTOP UNITS AND ACCESSORIES

- 9. MULTI SPEED (MSAV) BLOWER MOTORS
 - 10. 24" ROOF CURB

13. FACTORY GFCI (FIELD WIRED)

14. LENNOX COMMERCIAL CS7500 THERMOSTAT WITH REMOTE SENSOR

- UNIT WEIGHTS ABOVE INCLUDE ACCESSORIES AND CURB. 11. COIL GUARDS (FIELD INSTALL) FACTORY COATED EVAPORATOR COIL ON ALL UNITS FACTORY COATED CONDENSER COIL ONLY WITHIN 5 MILES OF 12. FACTORY DISCONNECT
- SALTWATER COASTLINE SINGLE ENTHALPY ECONOMIZER, HIGH PERFORMANCE, LOW-LEAK DAMPERS, W/ GRAVITY EXHAUST

- DUCT MOUNTED SMOKE DETECTORS: IONIZATION TYPE/UL LISTED

- TITLE 24 COMPLIANT RETURN AIR SMOKE DETECTOR (FIELD INSTALLED)
- FACTORY HINGED ACCESS DOORS MERV 8 PLEATED FILTERS

EVENTION EVIL COLUMN E

	EXH/	AUSTFANS	CHEDULE	
	FAN NO.	(EF)	EF 2	EF 3
	LOCATION	ROOF	ROOF	ROOF
	AREA SERVED	KITCHEN GREASE EXHAUST HOOD #1	KITCHEN GREASE EXHAUST HOOD #2	RESTROOMS
	FAN DUTY	AIR EXHAUST	AIR EXHAUST	AIR EXHAUST
	FAN TYPE	CENTRIFUGAL DIRECT DRIVE	CENTRIFUGAL DIRECT DRIVE	CENTRIFUGAL DIRECT DRIVE
	FAN ARRANGEMENT	UPBLAST	UPBLAST	DOWNBLAST
	MIN. WHEEL DIAMETER	-		-
	C.F.M.	3,400	2,900	450
ANCE	T.S.P.	1.59"	1.178"	0.25"
PERFORMANCE	B.H.P.	1.97	1.24	0.081
	FAN R.P.M.	1,399	1,199	1,220
	MOTOR H.P.	3.0	3.0	0.25
κ	ELEC. CHARACTERISTICS	208V/3PH/60HZ	208V/3PH/60HZ	115V/1PH/60HZ
MOTOR	MOTOR R.P.M.	1725	1725	-
	MOTOR SPECIAL FEATURES	OPEN DRIP-PROOF	OPEN DRIP-PROOF	OPEN DRIP-PROOF
	ACCESSORIES	1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS	1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS	1. ROOF CURB 2. BACKDRAFT DAMPER
	MANUFACTURER	CAPTIVEAIRE MODEL:DU180HFA WT. 245 LBS	CAPTIVEAIRE MODEL:DU180HFA WT. 245 LBS	CAPTIVEAIRE MODEL:DR12HFA WT. 66 LBS

NOTES:

- KITCHEN EXHAUST FANS SHALL BE ELECTRICALLY INTERLOCKED WITH MAKE-UP AIR UNIT AND ROOFTOP UNITS.
- 2. FOR WIRING DIAGRAM SEE 5/M-501

| EQUIP. | MFR/MODEL | DESCRIPTION

SENSOR LOCATIONS.

MARS (2)UNHEATED AIR CURTAIN (SERVICE DOOR), 115/1/60 (M8D) | STD242-1U-OB | WEIGHT 65 LBS. PROVIDED BY PANDA EXPRESS M9A) QUICK-SERV AIR CURTAIN (WINDOW NON-HEATED). 120/1/60, 20 AMP CF-25 WEIGHT 30 LBS REFERENCE ARCHITECTURAL WINDOW SCHEDULE FOR

HEATED OR NON-HEATED UNIT. PROVIDED BY GC.

INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

MA-1 CONTROL SETTINGS

HVAC CONTROL SETTINGS

THERMOSTAT: LENNOX COMMERCIAL PROGRAMMABLE THERMOSTAT WITH

REMOTE TEMPERATURE SENSOR. SEE SHEET M-100 FOR THERMOSTAT AND

EACH HVAC UNIT SHALL BE PROVIDED WITH CONTROLS AS FOLLOWS:

ALL THERMOSTATS SHALL HAVE MANUAL OVERRIDE.

EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

CYCLE WITH COOLING/HEATING DURING UNOCCUPIED PERIOD.

PROGRAMMED SETPOINTS (FOR EACH THERMOSTAT):

QUALITY, COMFORT AND/OR ENERGY CONSUMPTION.

COOLING OCCUPIED: 75°F. COOLING UNOCCUPIED: 85°F.

HEATING UNOCCUPIED: 50°F.

HEATING OCCUPIED:

CONTRACTOR SHALL DETERMINE OCCUPIED PERIOD FROM OWNER.

FAN OPERATION SHALL BE CONTINUOUS DURING OCCUPIED PERIOD AND

NOTE: DEVIATIONS FROM THE ABOVE MAY RESULT IN UNACCEPTABLE AIR

AIR CURTAIN SCHEDULE

EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

FAN OPERATION SHALL BE CONTINUOUS DURING COOKING OPERATION INTERLOCK WITH KITCHEN EXHAUST FANS. REFER TO HOOD DRAWINGS.

PROGRAMMED SETPOINTS:

HEATING 55°F.

MAKE-UP AIR UNIT SCHEDULE

MARK	MFR/ MODEL	LOCATION	SERVICE AREA	GAS HEAT	TYPE	COOLING	CFM	ESP	MOTOR	REMARKS
MA-1	CAPTIVEAIRE A3-D.500-24D-MPU	ROOF-TOP	KITCHEN HOOD #1 & #2	INPUT: 539,830 BTHU OUTPUT: 496,644	DIRECT FIRE GAS HEATED, DX COOLED SUPPLY, DOWN DISCHARGE	DUAL CIRCUIT 5/5 MODULAR PACKAGED COOLING OPTION	5,040	0.90"	7.5 HP 208V/3PH/60HZ	GAS FIRED MAKEUP AIR UNIT WITH (2) 24ABB360 5 TON, DUAL CIRCUIT AIR COOLED CONDENSING UNITS. REFER TO SHEET M-402 FOR INFORMATION. 4-5 WEEK LEAD TIME. SHIPPING INCLUDED IN PRICE. SHIPS FROM TYLER, TX. SHIPS SEPARATE, FREIGHT INCLUDED. NOTE: FACTORY OPTIONS SHALL INCLUDE NON-CORROSIVE COATING AND HAIL GUARD PROTECTION.

	DIFFUSER & GRILLE SCHEDULE													
					.									
DESIGNATION	MANUFACTURER	MODEL NO	TYPE	COLOR	NOM NECK SIZE	NOM FACE SIZE	FRAME TYPE	NC MAX	REMARKS					
Α	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	24" x 24"	LAY-IN T-BAR	< 30	INSULATION BLANKET FOR BACKPAN, BALANCE USING MANUAL VOLUME DAMPER AT BRANCH DUCT					
В	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE		PER PLAN	20" x 20"	SURFACE	< 30	WITH 20X20 SURFACE FRAME, REQUIRES A 20.5"X20.5" CEILING OPENING, INSULATION BLANKET, D-100 RADIAL DAMPER					
С	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE*	PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING, INSULATION BLANKET, D100 RADIAL DAMPER					
D	TITUS	PAR-3	PERFORATED RETURN	26 WHITE	22" x 22"	24" x 24"	LAY-IN T-BAR	< 35	CONTRACTOR FURNISHED INSULATE RETURN BOX FOR CONNECTING FLEX DUCT					
Е	TITUS	PAR-3	PERFORATED EXHAUST	26 WHITE*	PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING, D100 RADIAL DAMPER					
F	TITUS	PAR-3	PERFORATED RETURN	**	22" x 22"	24" x 24"	LAY-IN T-BAR	< 35	CONTRACTOR FURNISHED INSULATE RETURN BOX FOR CONNECTING FLEX DUCT					
Н	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	**	PER PLAN	24" x 24"	LAY-IN T-BAR	< 30	WITH INSULATION BLANKET, BALANCE USING MANUAL VOLUME DAMPER AT BRANCH DUCT					
J	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	24" x 24"	LAY-IN T-BAR	< 30	WITH INSULATION BLANKET, BALANCE USING MANUAL VOLUME DAMPER AT BRANCH DUCT					
K	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE*	PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING					
L	TITUS	PCS-3	PERFORATED TRANSFER	26 WHITE*	PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING					
M	TITUS	PCS-3	PERFORATED TRANSFER	26 WHITE*	PER PLAN	24" x 24"	SURFACE	< 30	WITH 24x24 SURFACE FRAME, REQUIRES A 24.5"x24.5" CEILING OPENING					

*ALL SURFACE MOUNTED AIR DEVICES ARE FACTORY #26 WHITE FINISH AND ARE FIELD PAINTED AS NEEDED TO MATCH CEILING COLOR. **ALL F AND H AIR DEVICES ARE TO BE FACTORY #26 WHITE FINISH FOR HOME STORE DESIGN AND FACTORY PANDA BRONZE FINISH FOR TRUE WARM & WELCOME DESIGN ALL DIFFUSERS ARE FURNISHED WITH INSULATION FROM THE FACTORY FOR FIELD INSTALLATION ON THE BACKPANS.

HVAC CONTRACTOR IS TO PURCHASE ALL AIR DEVICES FROM PANDA APPROVED NATIONAL ACCOUNT VENDOR THERMAIR SYSTEMS INC. PLEASE CONTACT RON CAMPTON AT 602-705-5010 OR EMAIL ronc@thermairsystems.com

AIR BALANCE SCHEDULE													
ITEM 💮	SUPPLY AIR	RETURN AIR	MAKE-UP AIR	EXHAUST									
MAU1	0	0	+5,040	0									
EF-1	0	0	0	-3,400									
EF-2	0	0	0	-2,900									
RTU-1	+2,400	-1,900	500	0									
RTU-2, RTU-3	+4,000, +4000	-3,250, -3,250	2@750 EA	0									
EF-3	-	-	-	-450									
TOTAL	+10,400	-8,400	+7,040	-6,750									

BUILDING PRESSURE = +290 CFM

BALANCE TOLERANCES AS FOLLOWS: KITCHEN EXHAUST HOODS: 0% TO +10% OUTDOOR AIR: 0% TO +10% SUPPLY & RETURN DIFFUSERS: ±10%

TOILET EXHAUST: ±10% BALANCE RTU SUPPLY AND RETURN PRIOR TO TURNING ON EXHAUST FANS. KITCHEN EXHAUST FANS SHALL BE BALANCED WITH VELOCITY MATRIX OR A 4" ANEMOMETER

OSA	OSA VENTILATION CALCULATION-IMC 2018													
AREA TYPE TOTAL AREA (FT2) OCCUPANCY DENSITY 2 (PEOPLE/FT.2) OCCUPANTS OSA REQ.'D PER SQ.FT. (CFM) OSA REQ.'D PER PERSON (CFM) OSA REQ.'D PER PERSON (CFM) OSA REQ.'D PER PERSON (CFM) OCCUPANCY OCCUPAN														
DINING	782	70/1,000	62	0.18	7.5	+622								
KITCHEN	1,154	20/1,000	6	0.12	7.5	+184								
CORRIDOR	50	-	-	0.06	-	+3								
VESTIBULE	72	5/1,000	1	0.06	5	+10								
CALCULATION PER IMOVENTILATION SHALL E A BALANCE REPORT SYSTEM IS CAPABLE REQUIRED BY SECTIO	BE BALANCEI SHALL VER OF SUPPL) BY AN APPROVED IFY THAT THE VE YING THE AIRFLO	NTILATION W RATES		L OSA ED (CFM)	819								
TO THE ADMINISTRATI	VE AUTHORI	ΓΥ.		TOTAL OSA PROVIDED (CFM) 2,00										

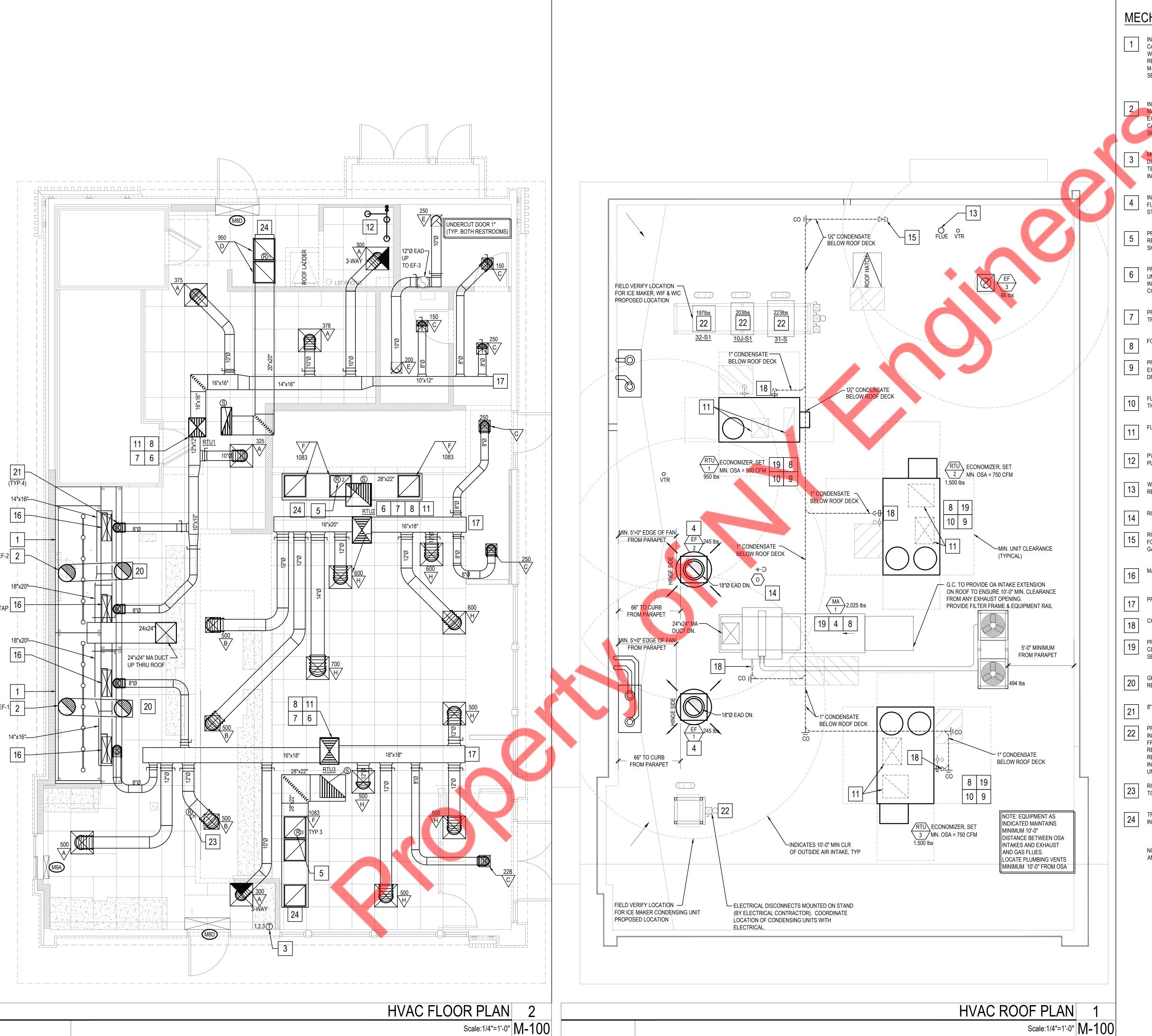
MECHANICAL LEGEND											
SYMBOL	ABBREVIATION	DESCRIPTION									
	ABV	ABOVE									
	AFF	ABOVE FINISHED FLOOR									
	CLG	CEILING									
	DN	DOWN									
		DUCT SECTIONS (SUPPLY, EXHAUST, RETURN)									
<i>XXY</i>		FLEXIBLE DUCT									
	MVD	MANUAL VOLUME DAMPER									
	OBD	OPPOSED BLADE DAMPER									
	MFR	MANUFACTURER									
	MIN	MINIMUM									
	OSA	OUTSIDE AIR									
Ф		ROUND RIGID DUCTWORK									
	TSP	TOTAL STATIC PRESSURE									
X		TURNING VANES									
1		CONSTRUCTION NOTES									
(EF)		MECHANICAL EQUIPMENT DESIGNATION									
S		SMOKE DETECTOR									
\bigcirc_1		THERMOSTAT / UNIT									
\mathbb{R}_1		REMOTE SENSOR / UNIT									

MECHANICAL SPECIFICATIONS

- WORK INCLUDES INSTALLATION OF HVAC SYSTEMS, INCLUDING GREASE EXHAUST FANS AND MAKE-UP AIR UNIT FOR KITCHEN HOODS, SPACE HEATING/AIR CONDITIONING SYSTEMS, SUPPLY, RETURN, EXHAUST, AND GREASE EXHAUST DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, COMPLETE CONTROLS SYSTEM, INTERLOCK WIRING FOR OPERATION OF KITCHEN HOODS, EXHAUST FANS, AND MAKE-UP AIR UNIT, DUCT INSULATION, AND RELATED ITEMS NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM AS INDICATED ON THE PLANS. FURNISH ALL NEW MATERIALS AND EQUIPMENT UNLESS NOTED OTHERWISE (U.N.O.).
- DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND REQUIRED EQUIPMENT. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. AS REQUIRED, REFER TO ARCHITECTURAL AND MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. FURNISH AND INSTALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND **EQUIPMENT SHOWN ON PLANS.**
- CODE COMPLIANCE: ALL WORK COVERED BY THIS SECTION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- COORDINATE WORK WITH OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS AND OWNER REQUIREMENTS. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR INSTALLATION AND/OR TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN AND THEIR WORK SHALL BE OF HIGH STANDARD ACCEPTABLE TO THE OWNER.
- DUCTWORK: DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED AND INSULATED AS PROVIDED IN THE INT'L ENERGY AND MECHANICAL CODES. SHEET METAL SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. SHEET METAL SHALL BE GALVANIZED OF LOCK-FORMING QUALITY, ASTM A-525. UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR SHEET METAL DIMENSIONS ON UNLINED DUCTS. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. ROUND RIGID DUCTWORK SHALL CONFORM TO SMACNA TABLE 3-2.
- 6. INSTALL DUCT HIGH AS POSSIBLE WITHIN JOIST SPACE. CONSULT ARCHITECT AND ENGINEER FOR ALTERNATE ROUTING IF CONFLICT OCCURS.
- . SEAL ALL TRANSVERSE AND LONGITUDINAL DUCT SEAMS AIR-TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 30 DEGREES.
- 8. GREASE EXHAUST SYSTEM: ALL GREASE EXHAUST DUCTS SHALL BE PREFABRICATED CAPTIVEAIRE DOUBLE WALL GREASE DUCT. PROVIDE RATED ACCESS DOORS AT ALL ELBOWS AND OFFSETS NECESSARY FOR COMPLETE CLEANING OF GREASE DUCT. PROVIDE MINIMUM 30"x30" UNOBSTRUCTED ACCESS OR ROUTE FROM THE CEILING TO EACH ACCESS DOOR. DO NOT BLOCK ACCESS WITH PLUMBING, ELECTRICAL OR HVAC OBSTRUCTIONS. REFER TO SHEETS M-400 TO
- DUCT INSULATION: PROVIDE DUCT WRAP FOR ALL DUCTS ABOVE CEILING, INCLUDING VERTICAL, HORIZONTAL, RIGID AND FLEXIBLE DUCTS, EXCLUDING PREFABRICATED PREINSULATED DUCTS AND GREASE DUCTS. DUCT WRAP SHALL BE JOHNS MANVILLE MICROLITE OR EQUAL WITH FOIL/SCRIM/KRAFT, 1 IN THICKNESS, 1.5 POUNDS/FT3 DENSITY. DUCT WRAP SHALL BE BONDED GLASS FIBERS IN THERMOSETTING RESIN MEETING NFPA 90A, WITH K VALUE NOT TO EXCEED 0.23 AT 75 DEGREES F. FLAME SPREAD AND SMOKE DEVELOPED RATINGS SHALL NOT EXCEED 25/50. APPLY 100% ADHESIVE COVERAGE TO SHEET METAL DUCTWORK. PROVIDE ADDITIONAL MECHANICAL FASTENERS ON DUCTS OVER 12" WIDE OR 16" HIGH. MECHANICAL FASTENERS SHALL BE "GRIPNAIL" OR WELDED PIN AND SPEED CLIPS SPACED PER SMACNA STANDARDS.
- 10. FLEX DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50 AND SHALL BE RATED FOR 2" W.C. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. FLEX DUCT MAXIMUM ALLOWED LENGTH TO BE PER LOCAL
- PROVIDE INSULATION APPLIED TO COMPLETE BACKPAN OF AIR DEVICES.
- 12. ACCESS DOOR: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE SHOWN AND AS REQUIRED FOR ACCESS TO DAMPERS OR EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.
- 13. AUTOMATIC TEMPERATURE CONTROL: CONTRACTOR TO PROVIDE AND INSTALL 24/7 PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS.
- 14. KITCHEN HOOD EQUIPMENT INTERLOCK: PROVIDE ALL INTERLOCK AND CONTROL WIRING FOR KITCHEN HOOD SYSTEMS, WHICH INCLUDES EF1, EF2, MAU1 AND ANSUL SYSTEM SHUT DOWN INTERLOCK TO MAKE-UP AIR FAN. UPON ACTIVATION OF ANSUL SYSTEM, MAKE-UP AIR FAN SHALL BE DEACTIVATED. PROVIDE ALL NECESSARY CONTROLS AND WIRING FOR A COMPLETE AND OPERABLE SYSTEM. INTERLOCK GREASE EXHAUST FANS AND MAKE-UP AIR UNIT TO START SIMULTANEOUSLY FROM SWITCH PROVIDED AT HOOD.
- 15. TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER AIR BALANCE AND OPERATION. PROVIDE A CERTIFIED AIR BALANCE REPORT TO OWNER SHOWING DESIGN AND MEASURED AIR VOLUMES, STATIC PRESSURES, FAN RPMS, ETC. AIR BALANCE CONTRACTOR SHALL ADJUST SYSTEMS TO MINIMIZE NOISE AND VIBRATION, AND TO ASSURE PROPER FUNCTION OF CONTROLS, MAINTENANCE OF TEMPERATURE AND OPERATION. GENERAL CONTRACTOR TO OBTAIN ALL INSPECTIONS REQUIRED BY LOCAL CODE AND GUARANTEE WORK AND INSTALLATION FOR ONE YEAR AFTER ACCEPTANCE BY OWNER. GENERAL CONTRACTOR TO FURNISH OWNER WITH TWO COMPLETE SETS OF AS-BUILT DRAWINGS INDICATING ALL INSTALLED WORK, INCLUDING ALL CONTROL WIRING DIAGRAMS AND INTERLOCK FOR SYSTEM OPERATION.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ECONOMIZERS INCLUDING INSTALLATION OF ALL NECESSARY SENSORS AND CONNECTIONS TO THERMOSTAT. PROVIDE SUPPORT OF ECONOMIZERS PER MANUFACTURER'S REQUIREMENTS AND TEST FOR PROPER OPERATION PRIOR TO FINAL TEST AND BALANCE.



MECHANICAL NOTES SPECIFICATIONS & SCHEDULES



MECHANICAL KEY NOTES:

- INSTALL GREASE EXHAUST HOODS FURNISHED BY PANDA. HOOD SHALL BE ONE CAPTIVEAIRE 4824-ND HOOD EXHAUSTING 3,450 CFM. SUPPORT FROM STRUCTURE ABOVE WITH UNISTRUT AND ALL THREAD ROD. MOUNT HOOD PER LOCAL CODE REQUIREMENTS. REFER TO PLAN FOR HOOD CONNECTIONS. SEE CODE COMPLIANCE DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE HOOD DRAWINGS FOR ADDITIONAL REQUIREMENTS. (TWO SECTIONS TOTAL).
- INSTALL MANUFACTURED CAPTIVEAIRE 18" GREASE EXHAUST DUCT, ROUTE ON TOP OF MAKE UP AIR DUCT, FROM INLET OF ROOF MOUNTED GREASE EXHAUST FAN, CONNECT TO EXHAUST HOOD COLLAR, FIELD VERIFY. SEAL DUCT TO THE ROOF CURB WITH FIRE CAULKING. SEE HOOD DETAIL DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE DRAWINGS ON SHEETS M-400 TO M-411.
- MOUNT THERMOSTAT AT MANAGER STATION. REFER TO DETAIL #1 ON SHEET E-200. SEE DWG FOR EXACT LOCATION OF REMOTE SENSOR. SEE ROOFTOP UNIT SCHEDULE AND TEMPERATURE CONTROL DIAGRAM DETAIL 5 ON SHEET M-501 FOR ADDITIONAL INFORMATION.
- 4 INSTALL GREASE EXHAUST FAN WITH CURB (EF-1 AND EF-2) AND MAKE UP AIR (MA-1) FURNISHED BY PANDA. COORDINATE LOCATION OF UNIT WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- PROVIDE AND INSTALL A REMOTE SENSOR FOR ROOFTOP UNIT AT THIS LOCATION. MOUNT REMOTE SENSOR IN RETURN AIR DUCTWORK. SEE TEMPERATURE CONTROL DIAGRAM ON SHEET M-501 FOR ADDITIONAL INFORMATION.
- PROVIDE AND INSTALL DUCT MOUNTED SMOKE DETECTOR AT MAIN SUPPLY AIR DUCT PER UMC, SEC. 609, <u>OR</u> AT RETURN AIR DUCT PER IMC, SECTION 606.2.1. DETECTORS SHALL BE INTERLOCKED TO SHUT DOWN ROOFTOP UNITS UPON DETECTION OF SMOKE. PROVIDE ALL CONTROL WIRING NECESSARY TO PERFORM THIS OPERATION.
- 7 PROVIDE FLEXIBLE CONNECTION BETWEEN UNIT, ROUTE DUCT THRU ROOF CURB AND TRUSS.
- FOR GAS OR WATER CONNECTION, SEE PLUMBING DRAWINGS.
- PROVIDE FABRICATED CURB PER MANUFACTURERS REQUIREMENTS AND COORDINATE EXACT LOCATION OF UNIT IN FIELD. SHIM ROOF CURB LEVEL FOR PROPER CONDENSATE DRAINAGE.
- FURNISH AND INSTALL ALL TEMPERATURE CONTROL WIRING FROM THE UNIT TO THE THERMOSTAT OR OTHER CONTROL DEVICES.
- FULL SIZE SA AND RA UP TO RTU. TRANSITION AS REQUIRED TO RTU INLET/OUTLET SIZE.
- PVC COMBINATION VENT AND COMBUSTION AIR PIPING PROVIDED AND INSTALLED BY PLUMBING FOR SEALED COMBUSTION WATER HEATER. REFER TO PLUMBING PLANS.
- WATER HEATER CONCENTRIC VENT TERMINATION. REFER TO PLUMBING PLANS. OFFSET AS REQUIRED FOR CLEARANCE FROM AIR INTAKES.
- ROOF HYDRANT. REFER TO PLUMBING DRAWINGS.
- ROUTE CONDENSATE DRAIN IN CEILING SPACE OVER AND DOWN IN WALL. SLOPE 1/4" PER FOOT. STUB-OUT AND ELBOW DOWN OVER MOP SINK. TERMINATE WITH MINIMUM 2" AIR GAP.
- MA DUCT (BELOW MAKE UP AIR) CONNECT TO 28"x10" RISER FROM SUPPLY PLENUM.
- PROVIDE DUCT EXTERNAL INSULATION WRAP AT TRUNK, TYPICAL.
- CONDENSATE DRAIN LINE DOWN THRU ROOF. REFER TO DETAIL 7/P-500.
- PROVIDE AND INSTALL ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDED CLEARANCES FOR MAINTENANCE. MAINTAIN MINIMUM CLEARANCES TO ELECTRICAL AND SERVICE ACCESS PANELS AND DISCONNECTS.
- GREASE DUCT CLEANOUT LOCATION. PROVIDE ACCESS TO CLEANOUT ABOVE CEILING. REFER TO MECHANICAL SPECIFICATIONS SHEET M-000
- 8" CONNECTION TO HOOD RTU SUPPLY PLENUM COLLAR. BALANCE TO 236 CFM.
- PROVIDE AND INSTALL ACR TUBING, SIZED AND ROUTED PER MANUFACTURER'S INSTRUCTIONS, FROM REMOTE REFRIGERANT CONDENSERS TO WALK-IN COOLER AND FREEZER FAN COILS, AND ICE MAKER. TEST, PURGE, EVACUATE AND CHARGE LINES AS REQUIRED BY MANUFACTURER. (START-UP FOR ICE MAKER IS BY OWNER'S REPRESENTATIVE). ROUTE REFRIGERANT LINES THROUGH "ATR HUB" PROVIDED AND INSTALLED BY GC (REFER TO ARCH. ISO 3 AND 4, SHEET A-108). UNITS SECURED TO RACK BY G.C.
- ROOM AIR SENSOR FROM CAPTIVEAIRE HOOD ON BACK OF MENU BOARD WALL, AS CLOSE TO CEILING AS POSSIBLE.
- TRANSITION FULL SIZE RETURN PLENUM DOWN TO GRILLES AS REQUIRED. INSIDE RETURN AIR PLENUM WITH 1" LINER PAINTED FLAT BLACK. RE: 1/M-501
 - NOTE: MAXIMUM FLEXIBLE DUCT LENGTH ALLOWED SHALL BE PER LOCAL CODE AND AMENDMENTS. IMC HAS NO LIMITATIONS FOR FLEXIBLE DUCT LENGTHS.



M-100

H.V.A.C. FLOOR PLAN & H.V.A.C. ROOF PLAN FOR QUESTIONS, CALL THE Southern CA National Accounts REGION 83 PHONE: (714) 677 - 2963 EMAIL: reg83@captiveaire.com

PATENT NUMBERS

HOOD	INF	ORMATION	_	J0B#6711089	
					_

1100.	\mathcal{I}_{IIVI}	OI WILL I I OI V	OD#OTTIOL	, .																
			,		MAX							EXHA	UST P	LENUM			TOTAL			CONFIG
HOOD	TAG	MODEL	MANUFACTURER	LENGTH	COOKING	TYPE	APPLIANCE					F	RISER((2			SUPPLY	HOOD	END TO	
ND	''''	Modec	MANOT HETOKEK	LENGIII	TEMP	'''	DUTY	CFM/FT	EXH CFM	WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	CFM	CONSTRUCTION	END	R□W
4		4824	CADILLYEAIDE	10/ 0/	600	т	1154777	262	2400			4"	10#	2400	1004	1.000#	0	430 SS		A1 (7)
1		ND-2	CAPTIVEAIRE	13′ 0″	DEG	1	HEAVY	262	3400			4"	18″	3400	1924	-1.202"	U	WHERE EXPOSED	LEFT	ALONE
		4824	CAPTIVEAIRE	11′ 2″	600	т	HEAVY	260	2900			4"	18 ″	2900	1641	-0.897″	0	430 SS	RIGHT	ALONE
-		ND-2	CAPTIVEAIRE	11 2	DEG	1	HEAVI	260	2 700			+	10	2 700	1041	-0.69/	U	WHERE EXPOSED	KIGHI	ALDINE
		226	CAPTIVEAIRE	11′ 9″	300	т	NIZA		0								2520	430 SS	ALONE	A
3		MISC ACPSP-ONLY	CAPTIVEAIRE	11 9	DEG	1	N/A	U	U								2520	WHERE EXPOSED	ALUNE	ALDINE
1		226	CAPTIVEAIRE	14′ 4″	300	т	N/A	0	0		-		-				2520	430 SS	ALONE	AL DNE
		MISC ACPSP-ONLY	CAFIIVEAIRE	14 4	DEG	1	IN/A	"	"								2320	WHERE EXPOSED	ALUNE	

HOOD INFORMATION

			FILTER	S)			LIGHT(S)					UTILITY CABINET(S)			FIRE	НООО
HOOD	TAG	TVD=			EFFICIENCY @ 7		TVD=	WIRE		0.775	FI	RE SYSTEM	ELECTRICAL	SWITCHES	SYSTEM	HANGING
NO		TYPE	QTY HEIGHT	LENGIH	MICRONS	QTY	TYPE	GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	PIPING	WEIGHT
1		CAPTRATE SOLO FILTER	9 20"	16"	85% SEE FILTER SPEC	7	L55 SERIES E26	ND							YES	545 LBS
2		CAPTRATE SOLO FILTER	8 20"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	ND	RIGHT	20"×48"×24"					YES	558 LBS
3						0									ND	163 LBS
4						0									ND	186 LBS

HOOD OPTIONS

HDDD ND	TAG				OPTIO	IN					
1		LEFT	END	STANDOFF	(FINISHED)	3″	WIDE	4	8″	LDNG.	
1		RISER	SENSO	R INSTALL	6IN PLEN.						
											-

2 RISER SENSOR INSTALL 6IN PLEN.

I	PERF	'ORAT	ED SU	PPLY .	<u>PLENU</u>	IM(S)						
						. ,				RISER	(2)	
	ND	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	WIDTH	LENG	DIA	CFM	SP
			Front	141"	10″	6"	AC			8″	236	0.135"
	3		Front	141	10	Ь	AC			8 ″	236	0.135"
	3		Po el	1 / 1 //	12″	<i>C"</i>	MUA	10"	28 "		1260	0.530"
			Back	141"	12	6"	MUA	10"	28 "		1260	0.530"
			Front	172″	10″	6"	AC			8″	236	0.122"
	4		Front	1/2	10	В	AC			8″	236	0.122"
	7		Pock	ack 172" 1		<i>("</i>	MUA	10"	28 "		1254	0.497"
L			Back	1/2	12"	6"	MUA	10"	28"	·	1254	0.497"

WALL-MOUNT UTILITY CABINET

 <u> </u>	MOUIVI	<u>ОТТЫТТ</u> О.	ADINDI					
				UTILITY CABINET(S)			
HDDD			FIF	RE SYSTEM	ELECTRICAL	ELECTRICAL SWITCHES		
ND	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	WEIGHT	
1	\./ALL MNT	12"×72"×24"	TANK FS	4.0/4.0/4.0/4.0	DC∨-2111	1 LIGHT	540.00 LBS	
1	WHEE MINI	10	I HIVIK I S	7.07 7.07 7.07 7.0		1 FAN	J40.00 LBS	

<u>FIRE SYSTEM INFORMATION - JOB#6711089</u>

FIRE					DESIGN	INSTALLATIO]N
SYSTEM NO	TAG	TYPE	SIZE	MAX FP	FP	SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0/4.0/4.0	80	74	WALL UTILITY CABINET LEFT	N/A

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HODDS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

DOUBLE WALL DUCT BY MECHANICAL

PLEASE USE CONTACT BELOW FOR PRICING

ANSUL GAS VALVE:

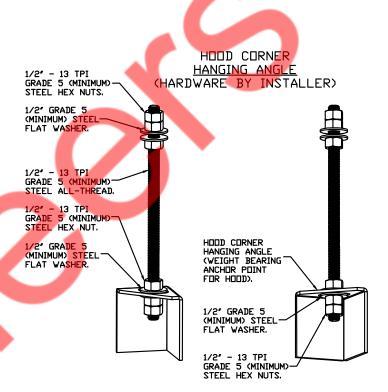
THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT OUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

3002 DOW AVENUE, SUITE 202

FOR QUESTIONS CALL THE CAPTIVEAIRE SOUTHERN CA NATIONAL ACCOUNTS OFFICE TUSTIN, CA 92780 TEL: 714-677-2963 EMAIL: REG83@CAPTIVEAIRE.COM

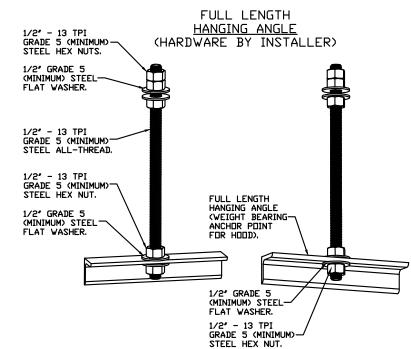


EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.



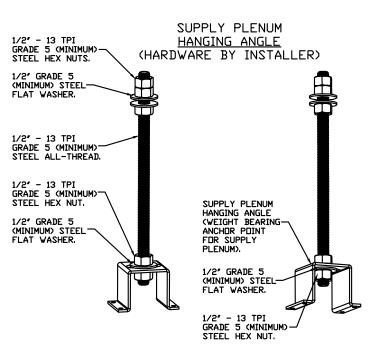
ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN, MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS, MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS, SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN, MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS, SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES, MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



REVISIONS DESCRIPTION DATE:

DATE: 4/1/2024 DWG.#:

DRAWN BY: AH-83

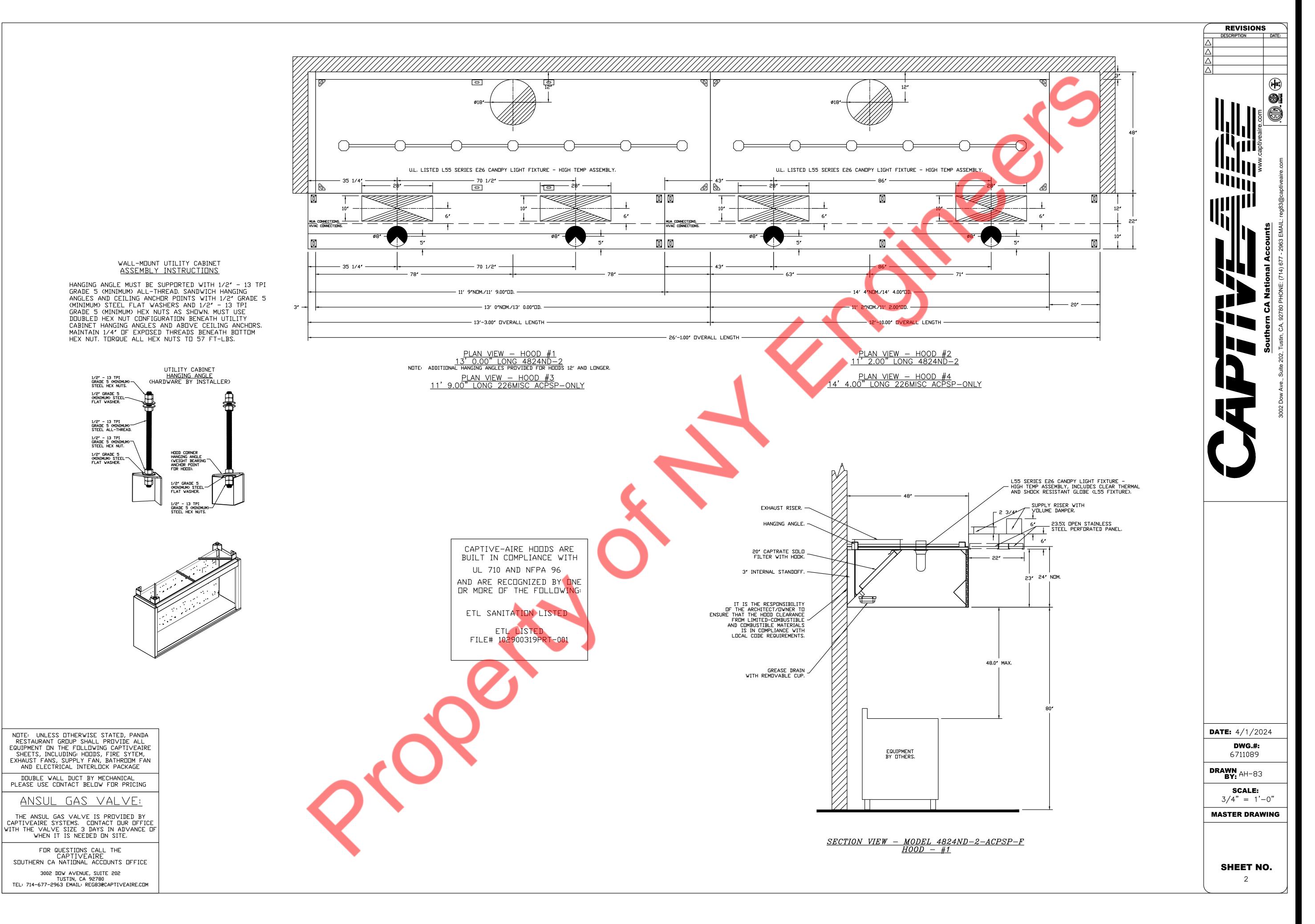
6711089

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

HOOD DETAIL PLAN





EXHAUST FAN INFORMATION - JOB#6711089 MOTOR ENCL WEIGHT (LBS) DISCHARGE UNIT TAG FAN UNIT MODEL # MANUFACTURER CFM ESP RPM HP BHP PHASE VOLT FLA 22.7 1.588 | 1399 | DDP, PREMIUM | 3.000 | 1.9700 | 3 | 208 | 9.5 DU180HFA 1 FRYERS CAPTIVEAIRE | 2900 17.3 2 RICE DU180HFA 1.178 | 1199 | DDP, PREMIUM | 3.000 | 1.2400 | 3 | 208 | 9.5 670 FPM 186 DR12HFA CAPTIVEAIRE 0.250 | 1220 | TEAD-ECM | 0.250 | 0.0810 | 1 50 450 CONDENSER DETAILS

CONDENSER TONNAGE VOLTAGE MAX FUSE | MIN WIRE TAG FAN UNIT MODEL # PHASE FREQUENCY SEER | 208-230 | 3 PHASE | 60 HZ | 21.4 AMPS | 17.4 AMPS | 30 AMPS | 10 AWG A3-D.500-24D-MPU 2 | 5 | 208-230 | 3 PHASE | 60 HZ | 21.4 AMPS | 17.4 AMPS | 30 AMPS | 10 AWG | 14

72.0°F

MUA FAN INFORMATION - JOB#6711089

FAN UNIT	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	ВНР	PHASE	VOLT	FLA	MCA	М□СР	WEIGHT (LBS)	SONES
<u>N□</u> 4		1	A3-D.500-24D-MPU	24MF-3-MOD	A3-D.500	3600	5040	0.900	1334	DDP,PREMIUM	7.500	4.0500	3	208	21.1	27.6A	45A	1880	11.8

FLUID TEMP

COILS - JOB#6711089 COOLING FAN UNIT TAG COIL DESIGN CFM ENTERING DB ENTERING DB LEAVING WB ENTERING TEMP PERCENT GLYCOL LEAVING FLUID FLOW FLUID TEMP RATE TOTAL CAPACITY ENTERING DB LEAVING DB ENTERING SENSIBLE LATENT

GAS FIRED MAKE-UP AIR UNIT(S)

DX 5040 95.0°F

FAN UNIT NO	TAG	INPUT BTUs	DUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)	
4		539830	496644	100°F	7 IN. W.C. – 14 IN. W.C.	NATURAL	92	

82,2°F

WB TEMP

78.0°F

FAN OPTIONS

	OF TIOIV		
FAN UNIT NO	TAG	QTY	DESCRIPTION
		1	GREASE BOX
1	FRYERS	1	UPBLAST FAN WHEEL ACCESS PORT
1	FRIERS	1	FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
		1	GREASE BOX
2	RICE	1	UPBLAST FAN WHEEL ACCESS PORT
-	KICE	1	FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
		1	ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
3		1	I 12-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	MOTORIZED BACKDRAFT DAMPER FOR A3-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	10 TON 2 CIRCUIT (5/5) MODULAR PACKAGED COOLING OPTION FOR SIZE 3 DF/EH MUA (3,600 TO 6,000 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION
4		1	DOWNTURN PLENUM FOR SIZE 3 DX COIL MODULE
		1	SHIP CONDENSERS LOOSE - TWO CONDENSERS, THREE PHASE - CONDENSER DISCONNECTS SHIPPED LOOSE. ALL PIPING AND WIRING BETWEEN INDOOR AND OUTDOOR UNITS BY OTHERS
		1	LOW FIRE START
		1	BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 3 (1" MOD VALVE)
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03
		1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

FAN	TAG		EXHAUST	SUPPLY					
UNIT ND	TAG	GREASE CUP	GRAVITY DAMPER	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT		
1	FRYERS	YES							
2	RICE	YES							
3			YES						
4						YES			

CURB ASSEMBLIES

ND	□N FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	FRYERS	59 LBS	CURB	26.500"W X 26.500"L X 30.000"H VENTED HINGED.
2	# 2	RICE	59 LBS	CURB	26.500"W X 26.500"L X 30.000"H VENTED HINGED.
3	# 3		16 LBS	CURB	17.500"W X 17.500"L X 12.000"H.
4	# 4		114 LBS	CURB	35.000"W X 84.000"L X 20.000"H INSULATED.
	# 4			RAIL	6.000"W X 35.000"L X 20.000"H.

	HMI SCHEDULE													
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS										
FAN #4	HMI #1 - UNIT HMI # 1	MOUNTED IN UNIT	NOT AVERAGED	55										

FANS #1 (FRYERS), #2 (RICE) - DU180HFA EXHAUST FAN

CAPACITY

51.9 MBH

TEMP

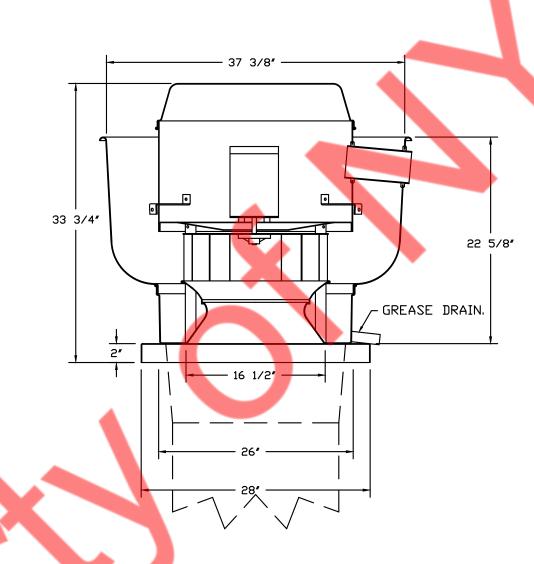
TEMP

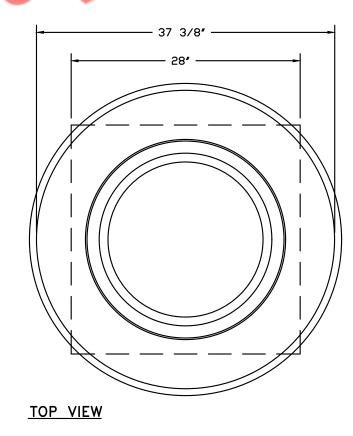
FLUID TEMP

CAPACITY

68.1 MBH

120.0 MBH





- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS.
- RESTAURANT MODEL.

HEATING

PERCENT GLYCOL

STEAM

PRESSURE

CAPACITY

SENSIBLE CAPACITY

LEAVING FLUID FLOW FLUID TEMP RATE

- UL705 AND UL762 AND ULC-S645 - VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - HIGH HEAT OPERATION 300°F (149°C). - GREASE CLASSIFICATION TESTING. - NEMA 3R SAFETY DISCONNECT SWITCH.
- NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED

THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH

WOULD CAUSE UNSAFE OPERATION. ABNORMAL FLARE-UP TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF

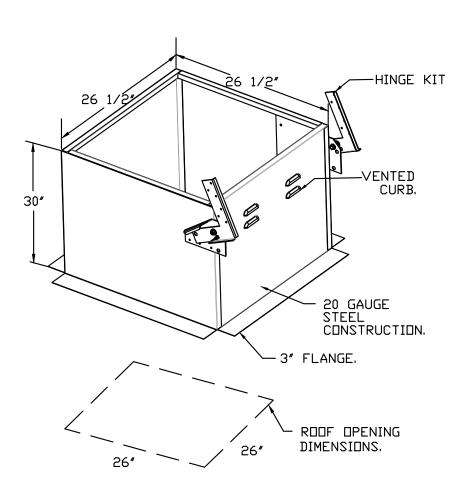
<u>OPTIONS</u>

- GREASE BOX. - UPBLAST FAN WHEEL ACCESS PORT. - FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE

15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE

- 2 YEAR PARTS WARRANTY.

AN UNSAFE CONDITION.



REVISIONS DESCRIPTION DATE:

NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HODDS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

DOUBLE WALL DUCT BY MECHANICAL PLEASE USE CONTACT BELOW FOR PRICING

ANSUL GAS VALVE: THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT DUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF

WHEN IT IS NEEDED ON SITE.

FOR QUESTIONS CALL THE CAPTIVEAIRE SOUTHERN CA NATIONAL ACCOUNTS OFFICE 3002 DOW AVENUE, SUITE 202 TUSTIN, CA 92780 TEL: 714-677-2963 EMAIL: REG83@CAPTIVEAIRE.CDM

DATE: 4/1/2024

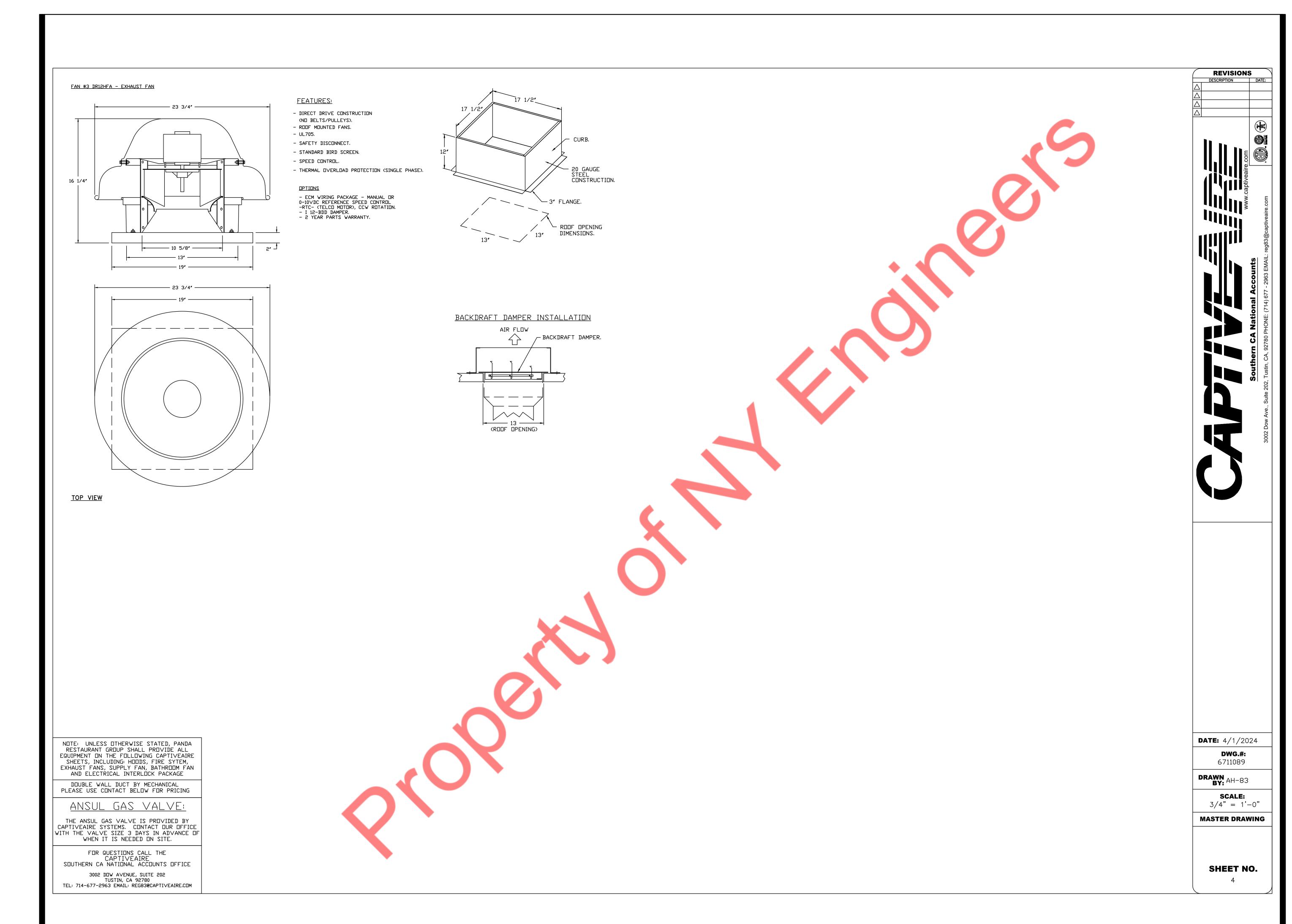
DWG.#: 6711089 DRAWN BY: AH-83

SCALE: 3/4" = 1'-0"

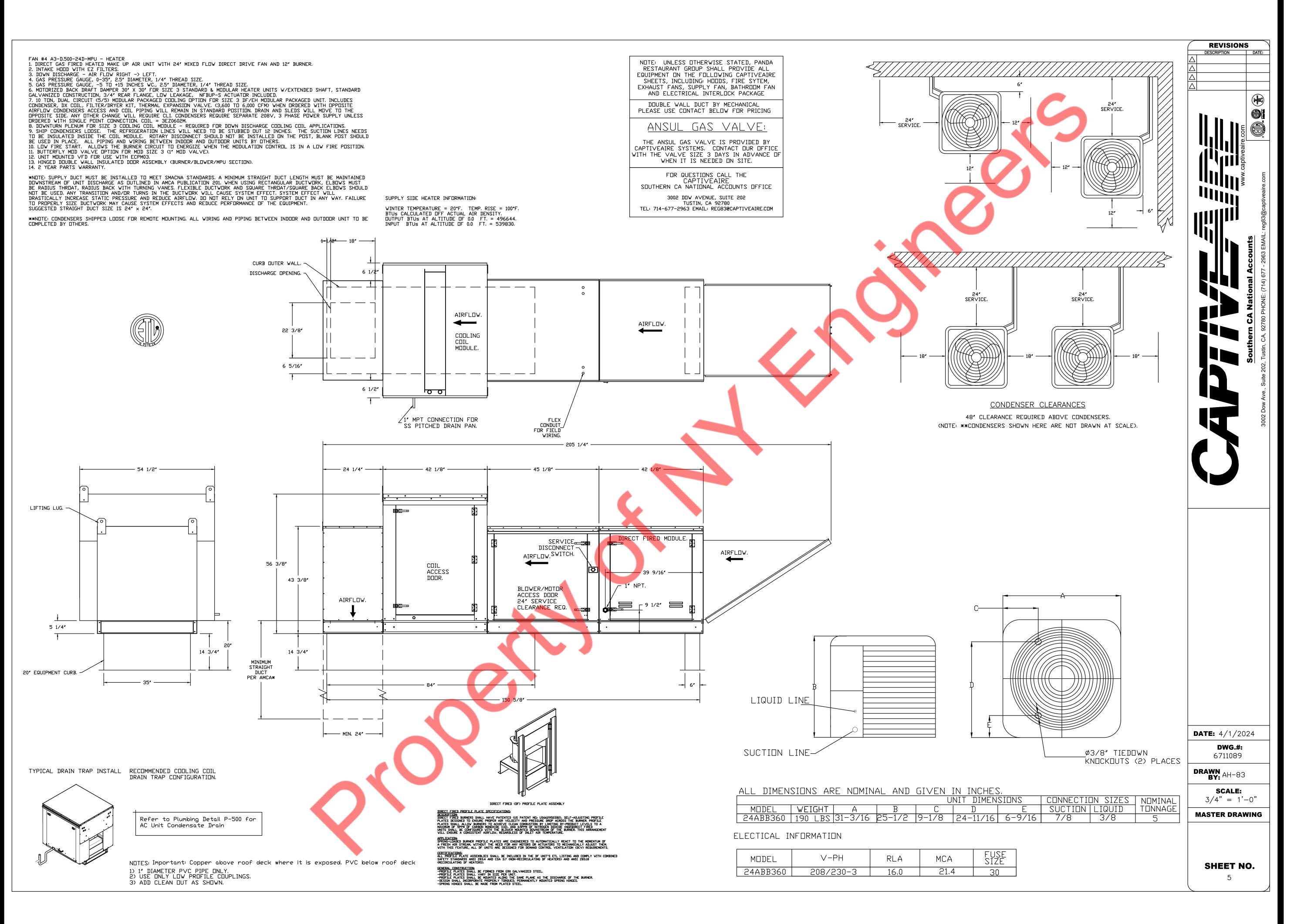
MASTER DRAWING

SHEET NO.

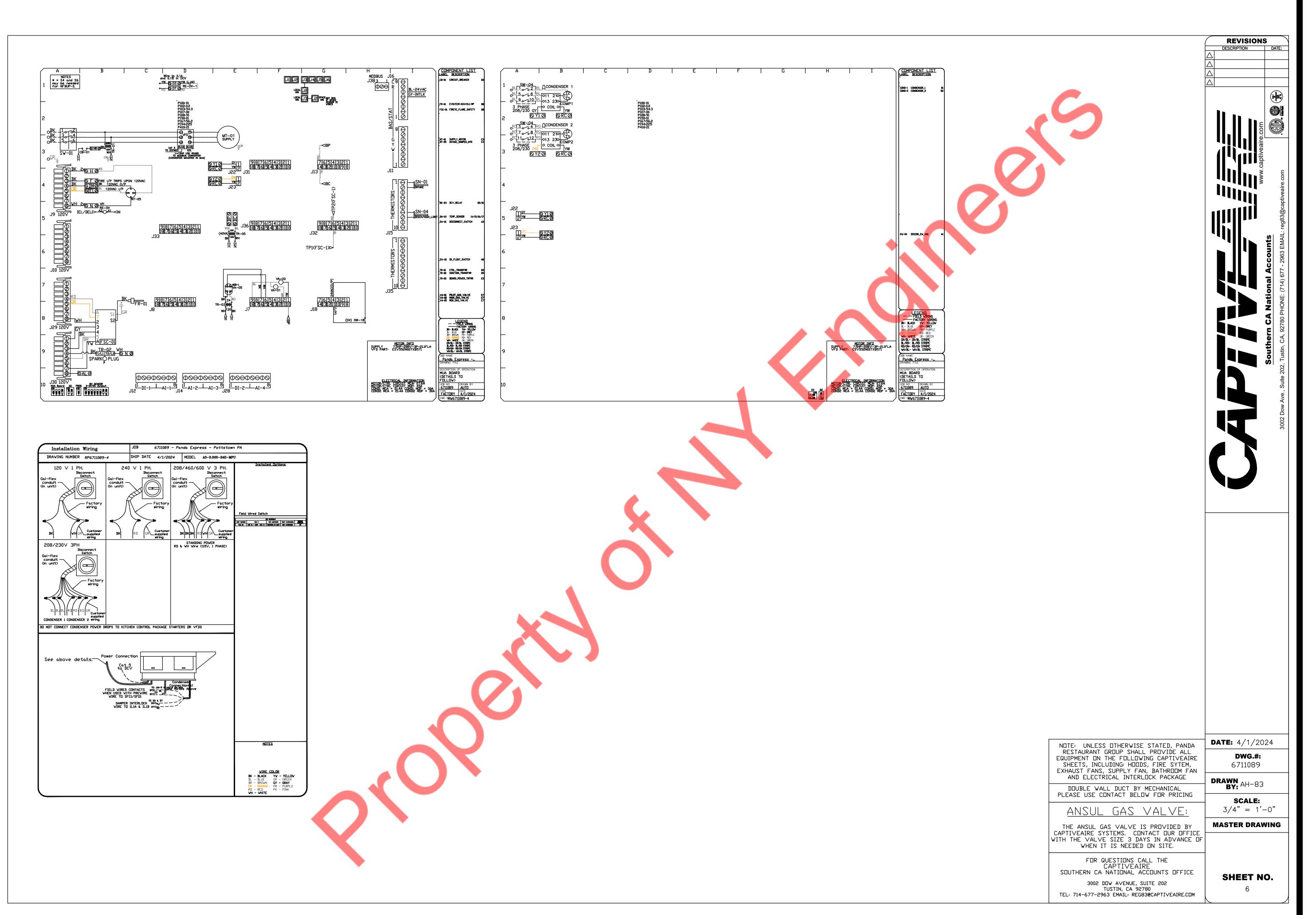
M-402



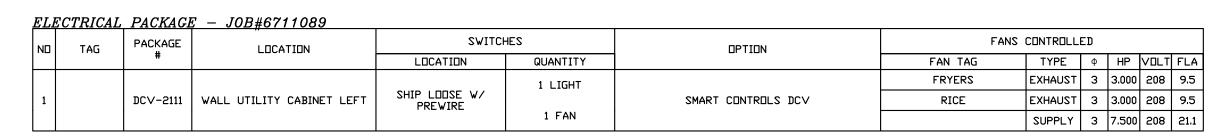


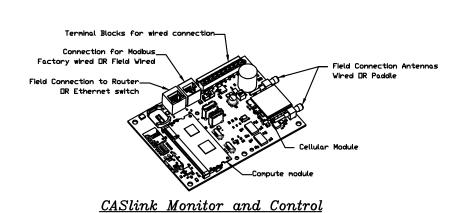












- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

Function	SC Packages	Function
MONITOR	Room Temperature(s)	MONITOR
MONITOR	Duct Temperature(s)	MONITOR
MONITOR	MUA Discharge Temperature	MONITOR
MONITOR	Kitchen RTU Discharge Temperature	MONITOR
MONITOR	Controller Faults	MONITOR
MONITOR	Fan Faults	MONITOR
MONITOR	Fan Status	MONITOR
MONITOR	PCU Faults	MONITOR
MONITOR	PCU Filter Clog Percentages	MONITOR
MONITOR	Fire Condition	MONITOR
MONITOR	CORE Fire System	MONITOR
MONITOR	Building Pressures	MONITOR
MONITOR	Fans Button(s)	MONITOR & CONTROL
MONITOR	Lights Button(s)	MONITOR & CONTROL
MONITOR	Wash Button	MONITOR & CONTROL
MONITOR		
MONITOR & CONTROL		
	Function MONITOR	MONITOR MONITOR MONITOR MONITOR MUA Discharge Temperature Kitchen RTU Discharge Temperature MONITOR MONITOR Controller Faults MONITOR Fan Faults MONITOR MONITOR PCU Faults MONITOR MONITOR PCU Filter Clog Percentages MONITOR MONITOR MONITOR CORE Fire System MONITOR Building Pressures MONITOR MONITOR MONITOR Lights Button(s) Wash Button

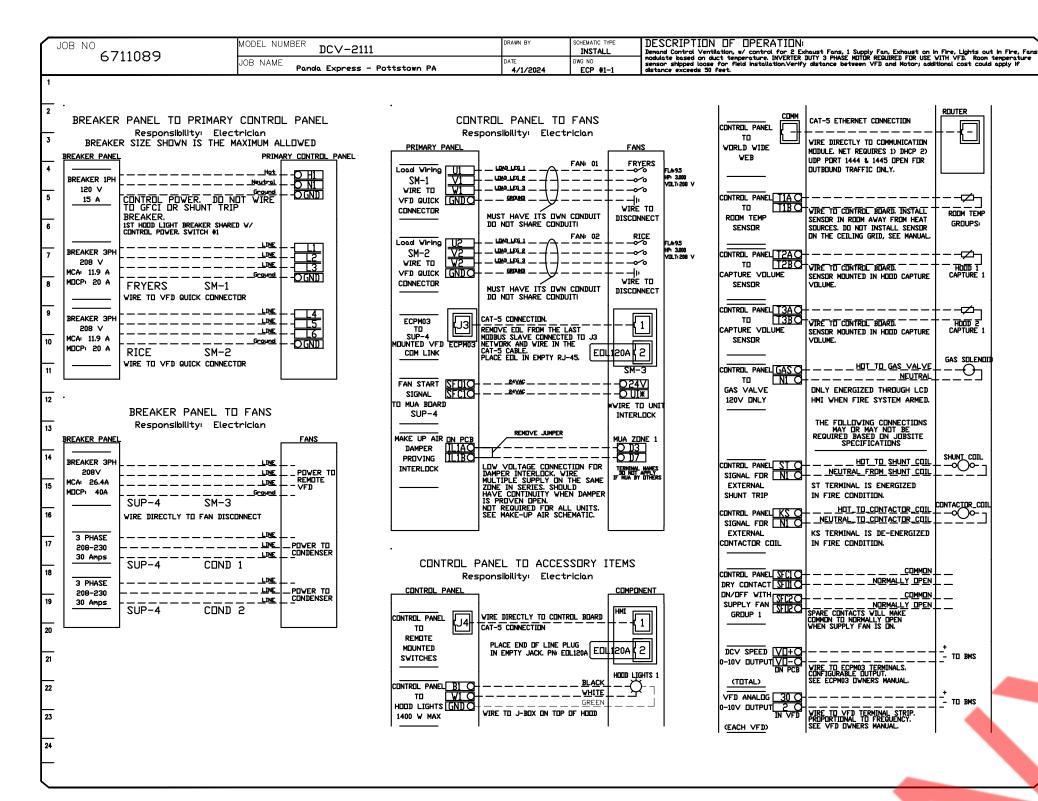
MONITOR & CONTROL

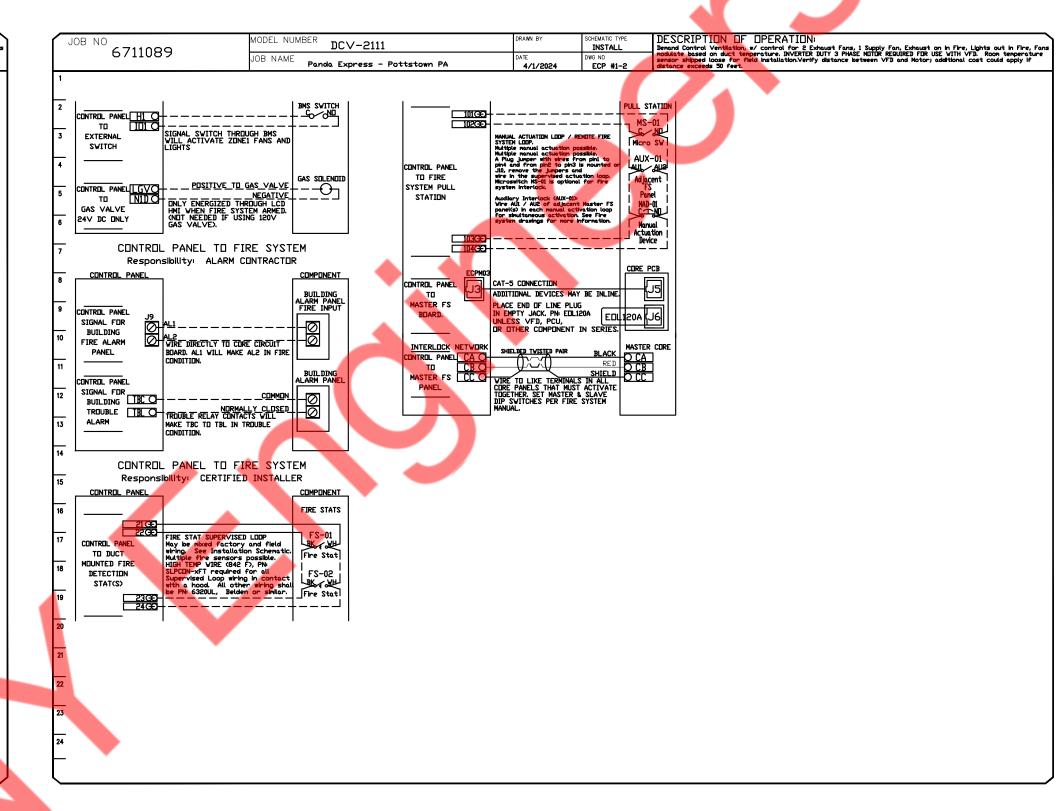
MONITOR & CONTROL

MONITOR & CONTROL

Lights Button

Wash Button

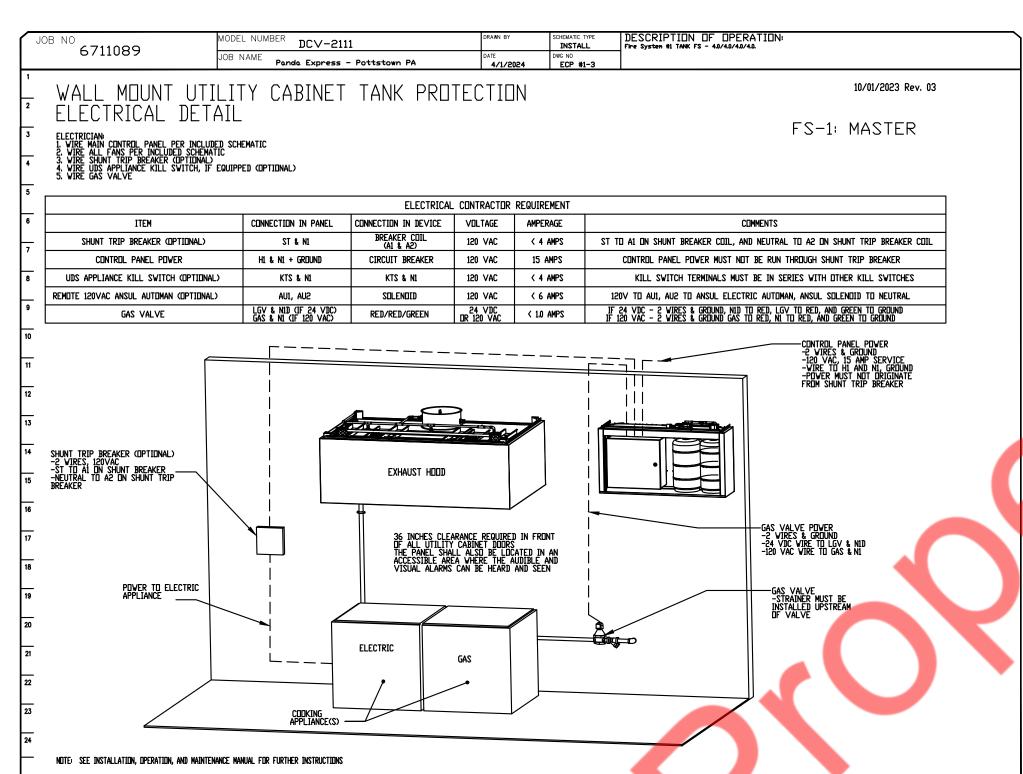


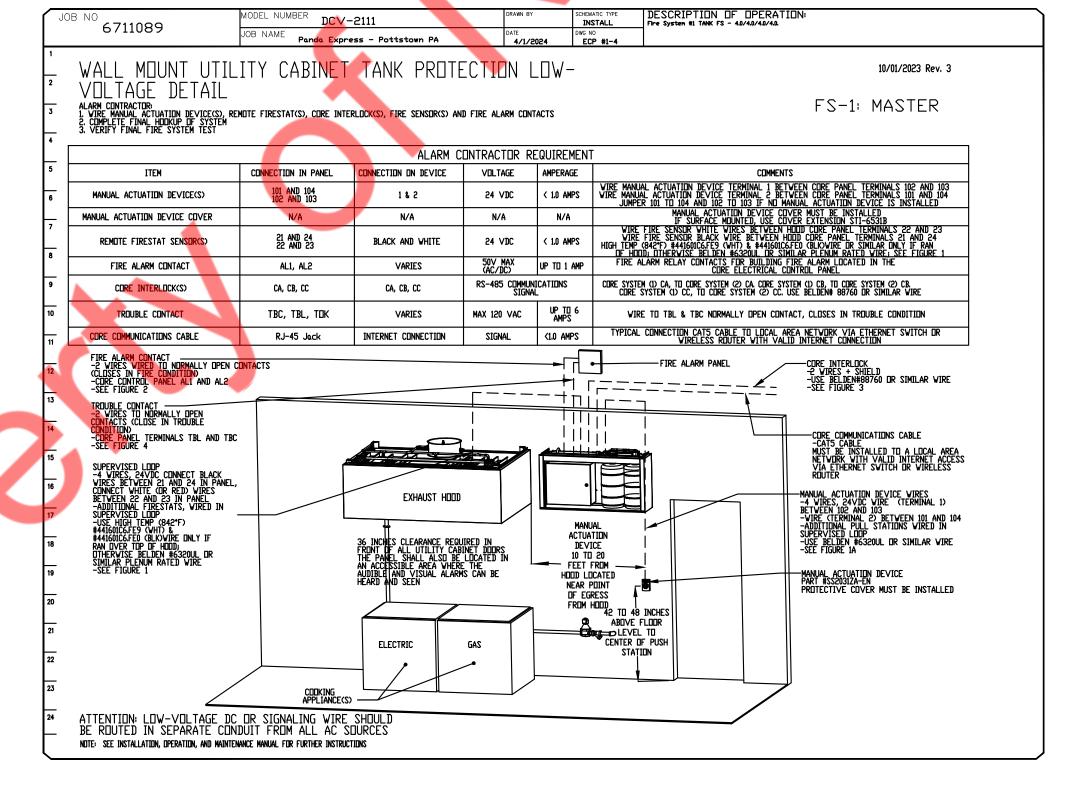




REVISIONS

DESCRIPTION





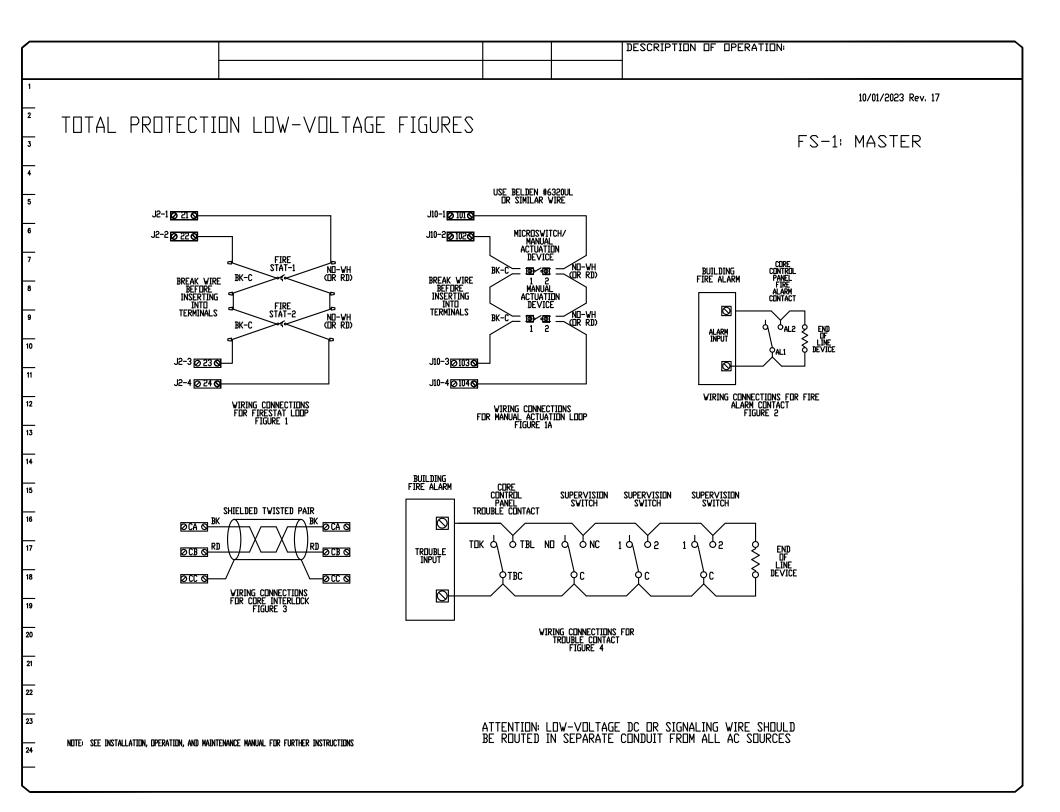
DATE: 4/1/2024 NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL DWG.#: EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HODDS, FIRE SYTEM, 6711089 EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE DRAWN BY: AH-83 DOUBLE WALL DUCT BY MECHANICAL PLEASE USE CONTACT BELOW FOR PRICING SCALE: 3/4" = 1'-0" ANSUL GAS VALVE: **MASTER DRAWING** THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT DUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE. FOR QUESTIONS CALL THE CAPTIVEAIRE SOUTHERN CA NATIONAL ACCOUNTS OFFICE SHEET NO. 3002 DOW AVENUE, SUITE 202 TUSTIN, CA 92780

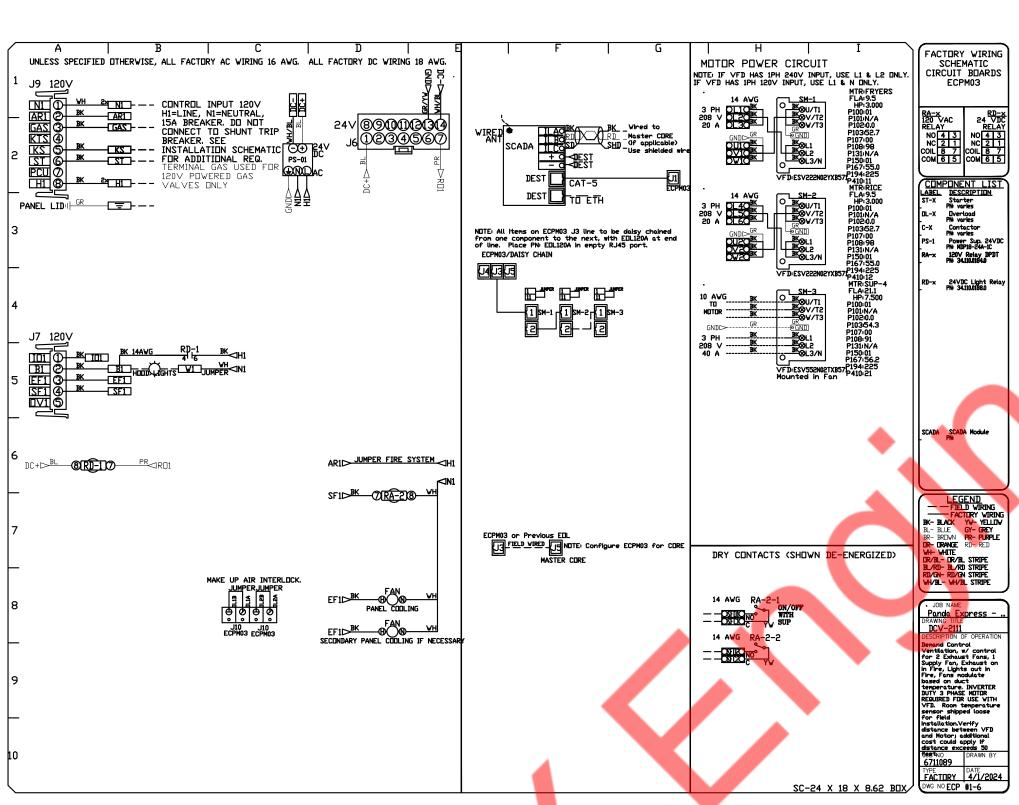
TEL: 714-677-2963 EMAIL: REG83@CAPTIVEAIRE.COM

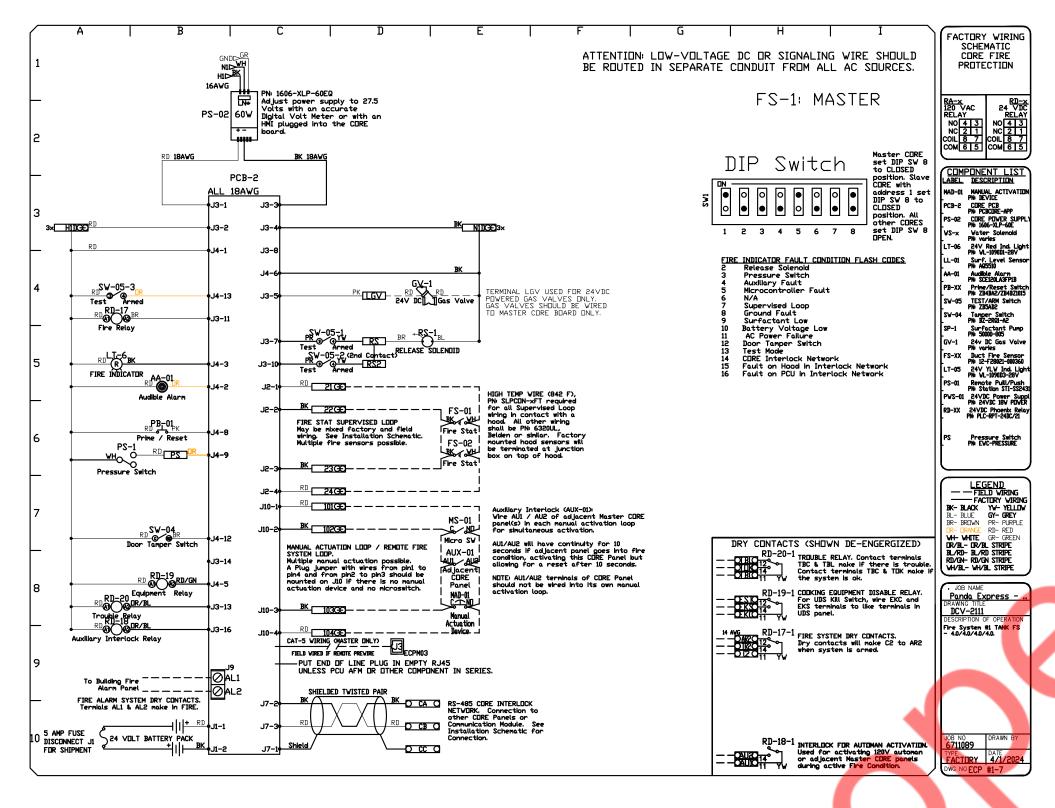
M-406

PANDA HOME 2700 R1











DATE: 4/1/2024 NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL DWG.#: EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, 6711089 EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE DRAWN BY: AH-83 DOUBLE WALL DUCT BY MECHANICAL PLEASE USE CONTACT BELOW FOR PRICING SCALE: 3/4" = 1'-0" ANSUL GAS VALVE: **MASTER DRAWING**

THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT DUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

FOR QUESTIONS CALL THE
CAPTIVEAIRE
SOUTHERN CA NATIONAL ACCOUNTS OFFICE

3002 DOW AVENUE, SUITE 202
TUSTIN, CA 92780
TEL: 714-677-2963 EMAIL: REG83@CAPTIVEAIRE.COM

* M-407

DUCTWORK #1 PARTS - JOB#6711089 DOUBLE WALL

					JUCIWORK	#I PAI	$c_{IJS} = c_{IJS}$	$OD_{\#}OII$	008	9 DUUBLE WALL
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
H1-E1	DW22DWRISER-2R-S	3400				-1.202	10.73	0.00		DOUBLE WALL RISER COVER - USED ON 18" INNER RISER, 4" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1829DWLT-2R-S	3400				-0.009	50.46	1924.01	1	DOUBLE WALL DUCT - 18" INNER DUCT, 29" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P2	DW1847DWAJD-2R-S	3400				-0.009	107.98	1924.01	1	DOUBLE WALL ADJUSTABLE DUCT $-$ 18" INNER DUCT $-$ 2 LAYERS REDUCED CLEARANCE $-$ 22" STAINLESS STEEL DUTER SHELL. MIN LENGTH $=$ 11" / MAX LENGTH $=$ 48.5" / ADJUSTMENT $=$ 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3	DW1890DWASY-2R-S	3400				-0.115	45.59	1924.01	1	DOUBLE WALL DUCT - 18" INNER 90 DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P4	DW1847DWAJD-2R-S	3400				-0.011	107.98	1924.01	1	DDUBLE WALL ADJUSTABLE DUCT $-$ 18" INNER DUCT $-$ 2 LAYERS REDUCED CLEARANCE $-$ 22" STAINLESS STEEL DUTER SHELL. MIN LENGTH $=$ 11" / MAX LENGTH $=$ 48.5" / ADJUSTMENT $=$ 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P5	DW2226SADKIT						8.80		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
P6 ASSEMBLED W/P7	DW18DWTEASY-2R-S	3400		1		-0.23	55.68	1924.01	1	DOUBLE WALL DUCT - 18" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P7 ASSEMBLED W/P6 □=S	DW18DWACCDOORCOV-2R-S						26.16		1	DOUBLE WALL DUCT - 18" INNER ACCESS DOOR & 22" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P8 ASSEMBLED W/P9	DW1835DWLTTP-2R-S	3400				-0.011	58.74	1924.01	1	DOUBLE WALL DUCT - 18" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATES
P9 ASSEMBLED W/P8 D=B	DW2618TPDBEX	3400					9.00	1924.01		DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 18" DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
SYSTEM AT P9						-1.587	0.00			
RC1	DW22DWRISER-2R-S						10.73		1	DOUBLE WALL RISER COVER - USED ON 18" INNER RISER, 4" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
	3M-2000PLUS						0.80		3	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW18DWCLASY-2R-S						8.70		1	DUCT - 18" DUCT - 22" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT							502.95			

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL

- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.

- WHERE HORIZONTAL	DUCTS EXCEED	75 FEET	IN LENGTH,	THE SLOP	E SHALL N	NOT BE LESS	THAN 3/16"	PER LINEAR FOOT.

HORIZONTAL											
DUCT DIAMETER	SUPPORT SPACING (FT)										
5″	7′										
6"	7′										
7"	7′										
8″	7′										
10″	7′										
12"	7′										
14"	7′										
16"	7′										
18"	5′										
20"	5′										
22"	5′										
24"	5′										
26"	5′										
28"	5′										
30"	5′										
32"	5′										
34"	5′										
36"	5′										

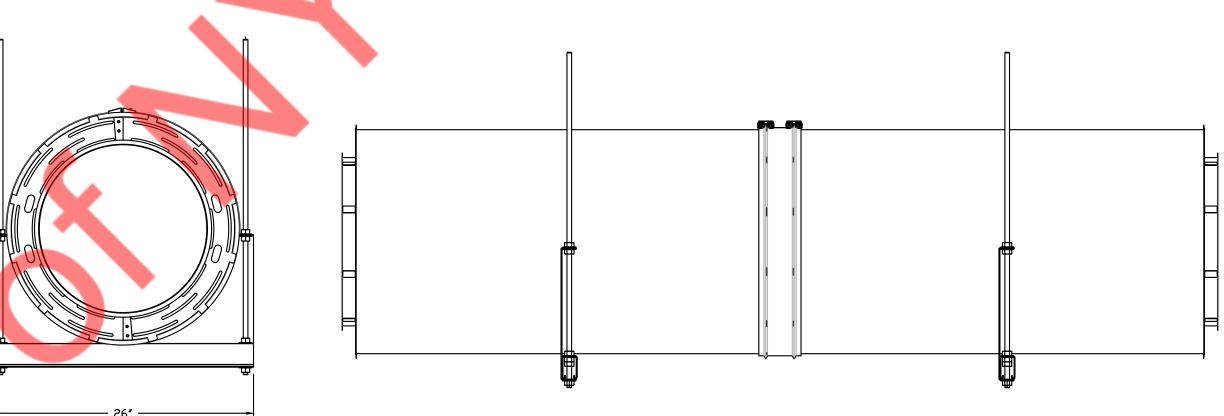
	VERTICAL									
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)							
2R & 2R HT (5"-16")	20′	24′	24′							
2R (18")	18′	24′	24′							
3R & 3Z (5″-24″)	10′	24′	24′							
3Z (26″ -36″)	10′	20′	20′							

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES, CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

Ductwork is responsibility of

mechanical or general email reg83@captiveaire.com for pricing

DW2226SADKIT - HORIZONTAL SUPPORTS



REVISIONS

NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HODDS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE DOUBLE WALL DUCT BY MECHANICAL PLEASE USE CONTACT BELOW FOR PRICING

ANSUL GAS VALVE:

THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT DUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

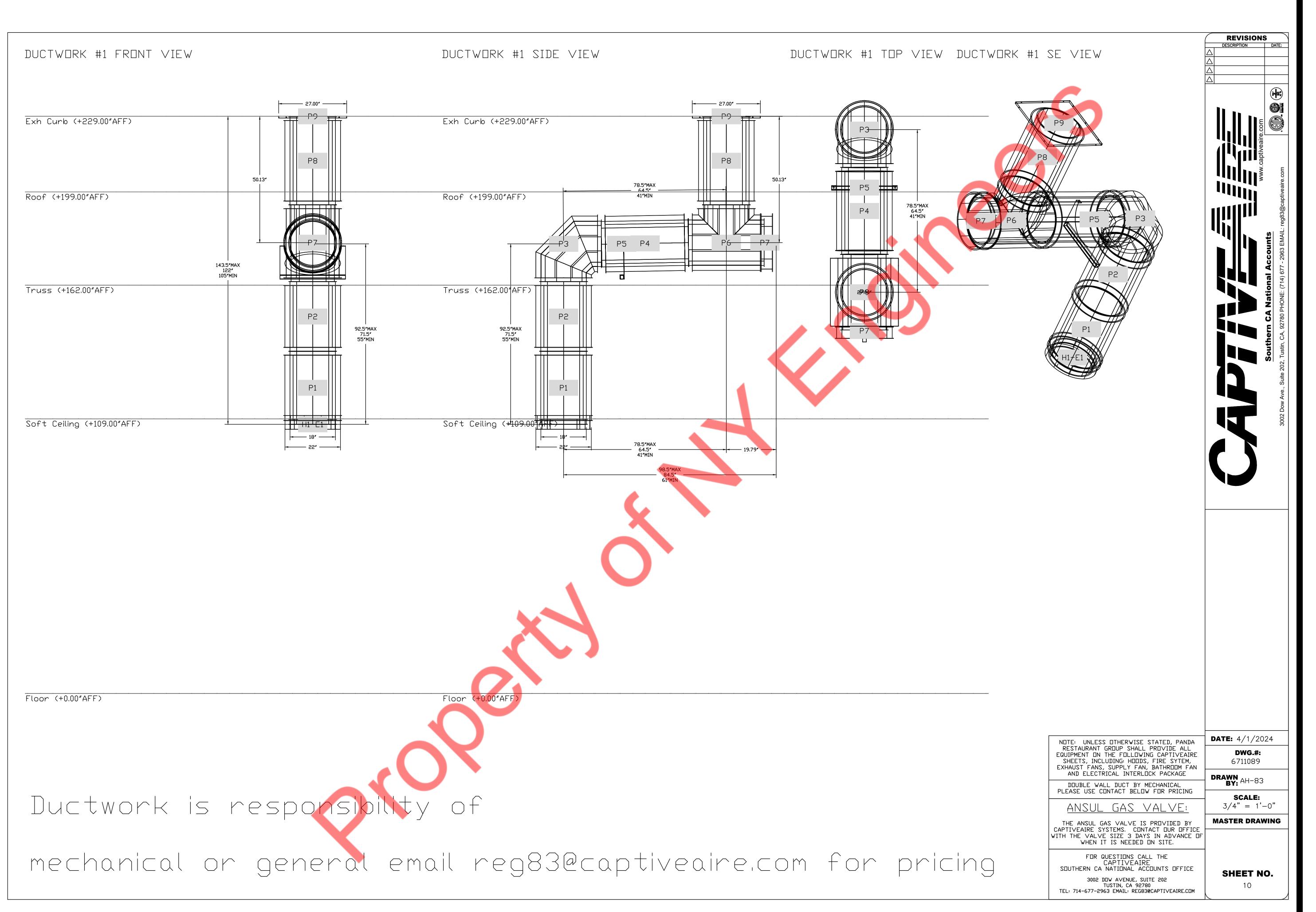
FOR QUESTIONS CALL THE CAPTIVEAIRE SOUTHERN CA NATIONAL ACCOUNTS OFFICE 3002 DOW AVENUE, SUITE 202 TUSTIN, CA 92780
TEL: 714-677-2963 EMAIL: REG83@CAPTIVEAIRE.COM **DATE:** 4/1/2024 6711089 DRAWN BY: AH-83 SCALE:

3/4" = 1'-0" **MASTER DRAWING**

SHEET NO.

M-408

HOOD DETAIL PLAN





DUCTWORK #2 PARTS - JOB#6711089 DOUBLE WALL

					DUCTWORK	#Z PAI	RTS -	JUB#671	108	9 DOUBLE WALL
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
H2-E1	DW22DWRISER-2R-S	2900				-0.897	10.73	0.00	1	DOUBLE WALL RISER COVER - USED ON 18" INNER RISER, 4" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION 8 SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1829DWLT-2R-S	2900				-0.007	50.46	1641.06	1	DOUBLE WALL DUCT - 18" INNER DUCT, 29" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P2	DW1847DWAJD-2R-S	2900				-0.006	107.98	1641.06	1	DOUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL DUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3	DW1890DWASY-2R-S	2900				-0.084	45.59	1641.06	1	DOUBLE WALL DUCT - 18" INNER 90 DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P4	DW1847DWAJD-2R-S	2900				-0.008	107.98	1641.06	1	DOUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P5	DW2226SADKIT						8.80		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
P6 ASSEMBLED W/P7	DW18DWTEASY-2R-S	2900		1		-0.168	55.68	1641.06	1	DOUBLE WALL DUCT - 18" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P7 ASSEMBLED W/P6 □=S	DW18DWACCDOORCOV-2R-S						26.16		1	DOUBLE WALL DUCT - 18" INNER ACCESS DOOR & 22" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL.
P8 ASSEMBLED W/P9	DW1835DWLTTP-2R-S	2900				-0.008	58.74	1641.06	1	DOUBLE WALL DUCT - 18" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATES
P9 ASSEMBLED W/P8 □=B	DW2618TPDBEX	2900					9.00	1641.06	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 18" DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
SYSTEM AT P9						-1.178	0.00			
RC1	DW22DWRISER-2R-S						10.73		1	DOUBLE WALL RISER COVER - USED ON 18" INNER RISER, 4" LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
	3M-2000PLUS						0.80		3	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW18DWCLASY-2R-S						8.70		1	DUCT - 18" DUCT - 22" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT							502.95			

DOUBLE WALL FACTORY BUILT DUCTWORK

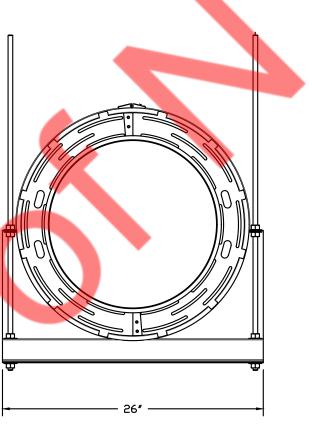
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

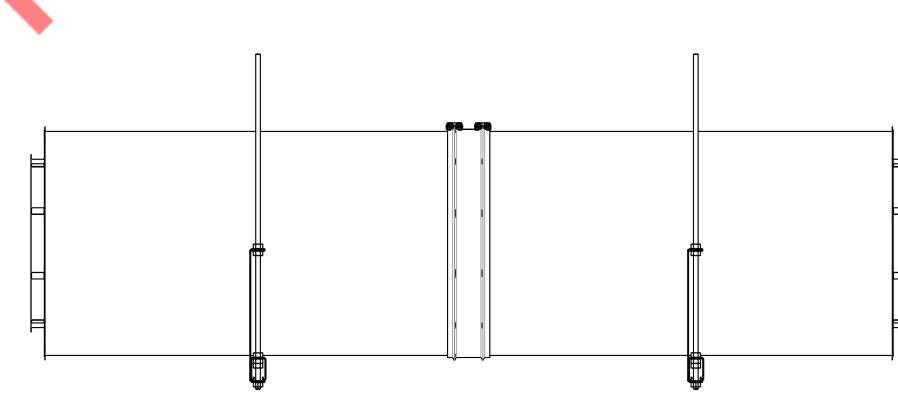
H□R	IZONTAL
DUCT DIAMETER	SUPPORT SPACING (FT)
5″	7′
6"	7′
7″	7′
8″	7′
10″	7′
12″	7′
14"	7′
16"	7′
18″	5′
20″	5′
22"	5′
24"	5′
26"	5′
28″	5′
30″	5′
32″	5′
34″	5′

	VERI	TICAL	
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5"-16")	20′	24′	24′
2R (18")	18′	24′	24′
3R & 3Z (5″-24″)	10′	24′	24′
3Z (26″ -36″)	10′	20′	20′

SUPPORT SYSTEM DETAILS #2

DW2226SADKIT - HORIZONTAL SUPPORTS





DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES, CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS,

Ductwork is responsibility of

mechanical or general email reg83@captiveaire.com for pricing

NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

DOUBLE WALL DUCT BY MECHANICAL PLEASE USE CONTACT BELOW FOR PRICING

ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT OUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

FOR QUESTIONS CALL THE CAPTIVEAIRE SOUTHERN CA NATIONAL ACCOUNTS OFFICE

3002 DOW AVENUE, SUITE 202
TUSTIN, CA 92780
TEL: 714-677-2963 EMAIL: REG83@CAPTIVEAIRE.COM

DATE: 4/1/2024

DWG.#:
6711089

DRAWN AH-83

SCALE:
3/4" = 1'-0"

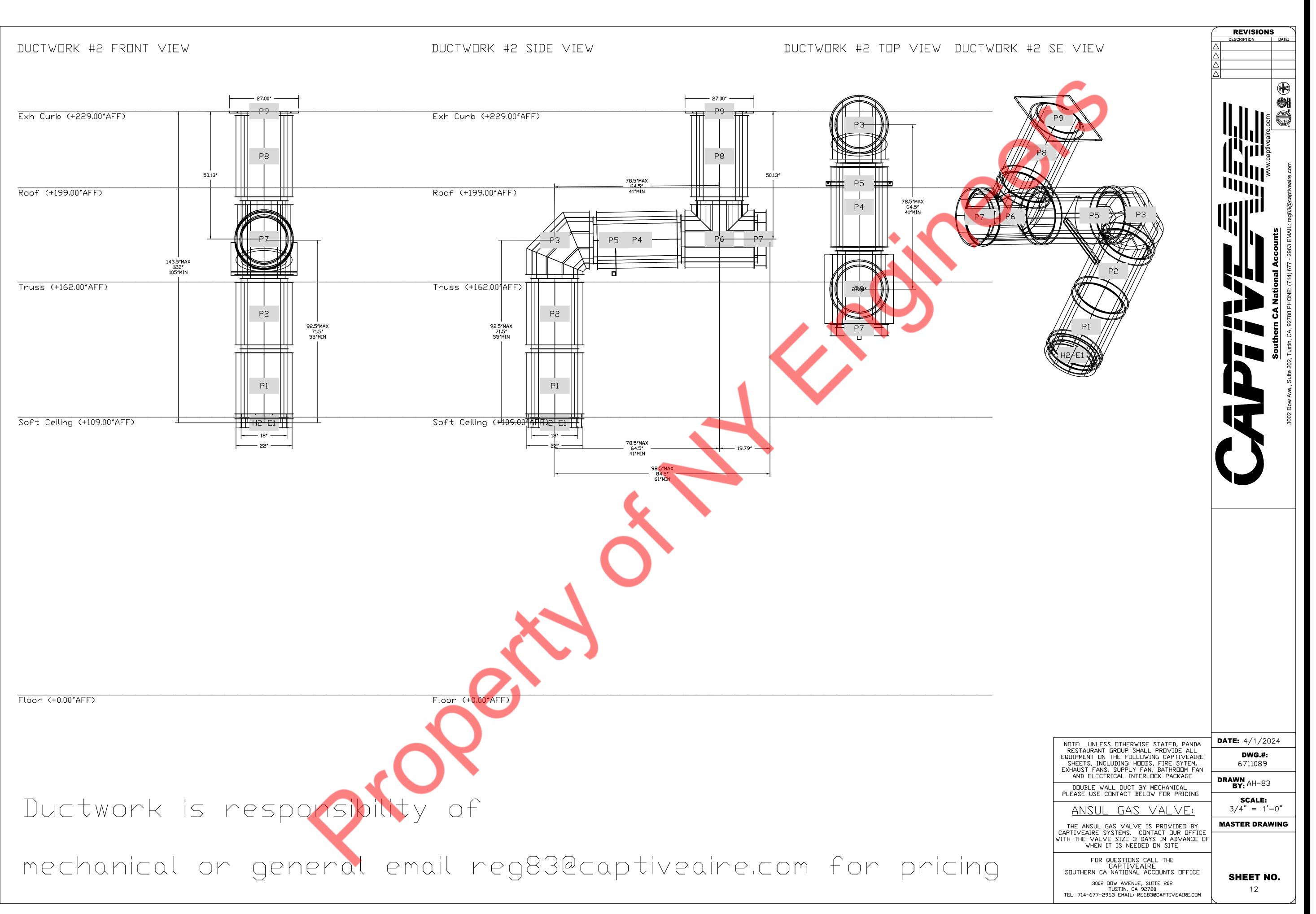
MASTER DRAWING

SHEET NO.

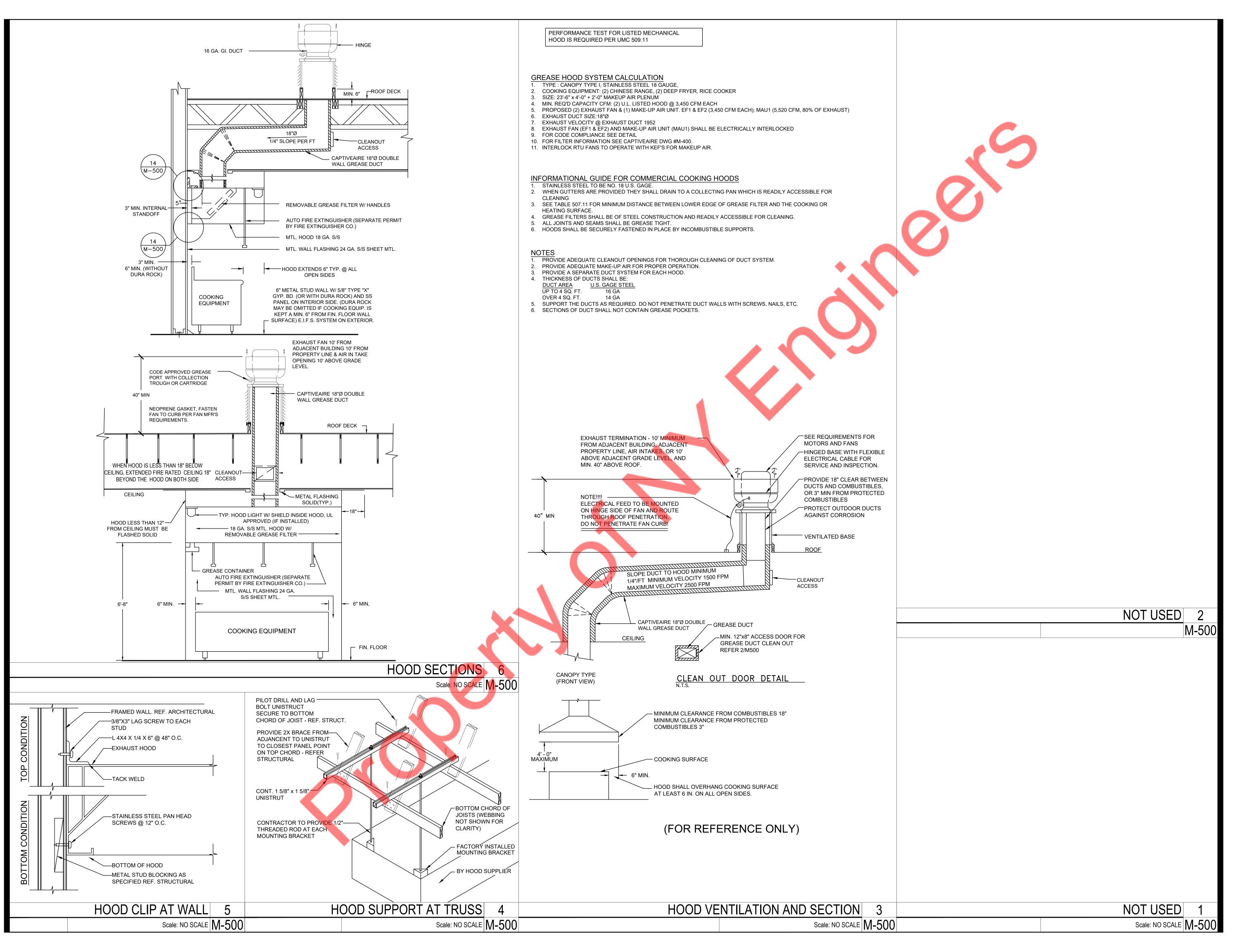
REVISIONS

M-410

HOOD DETAIL PLAN

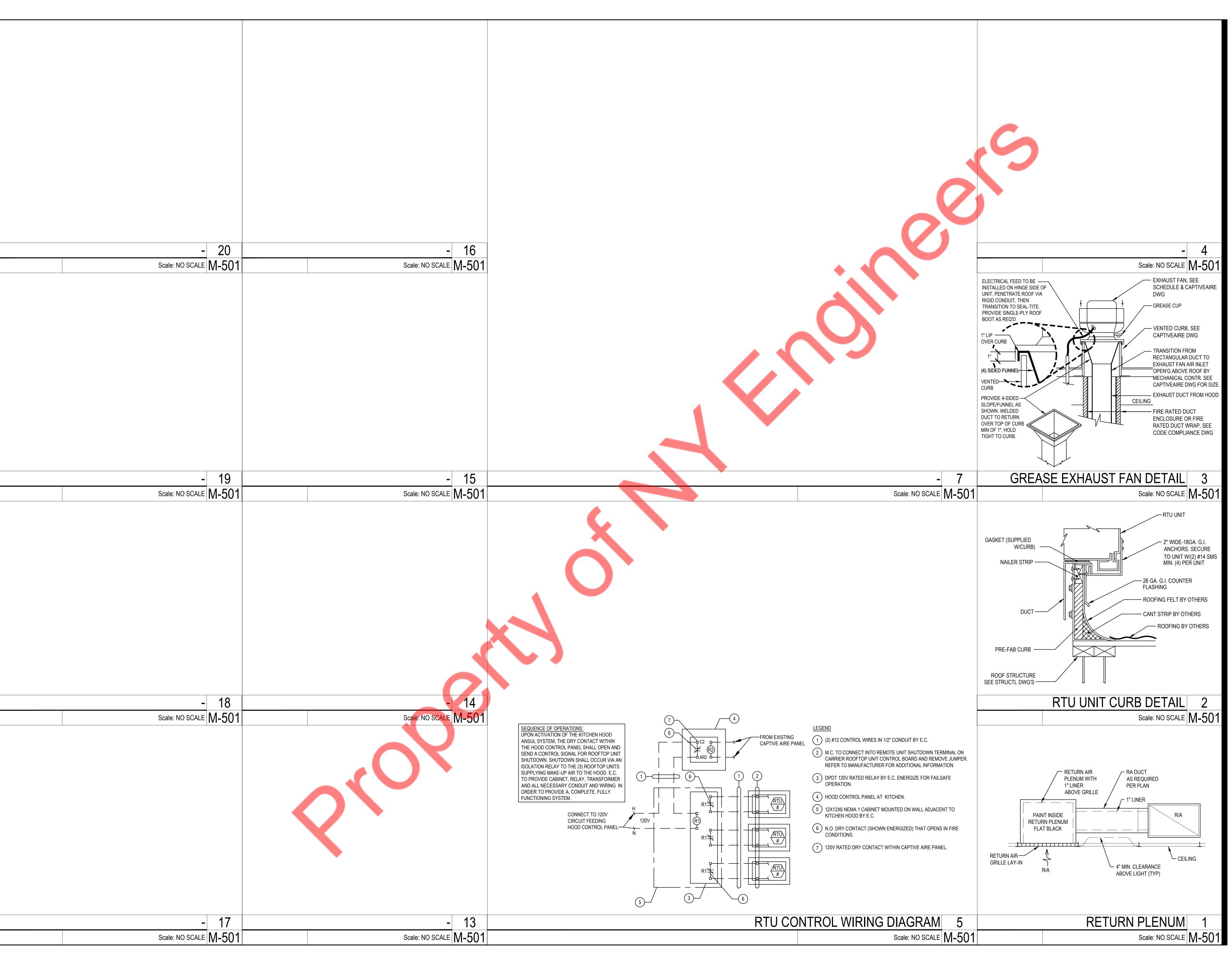








KITCHEN HOOD DETAILS





MECHANICAL DETAILS

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

1.01 COORDINATION OF TRADES: SCHEDULE AND COORDINATE WORK WITH THAT OF OTHER DIVISIONS AND SECTIONS.

1.02 GUARANTEE IN WRITING THE ELECTRICAL INSTALLATION, AND ALL WORK UNDER THIS SECTION, FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER AGAINST ALL EVIDENCE OF IMPERFECT WORKMANSHIP OR FAILURE OR MALFUNCTION OF MATERIALS.

PART 2 - PRODUCTS

- 2.01 MATERIALS AND EQUIPMENT
- A. MATERIAL FURNISHED UNDER THIS CONTRACT, UNLESS OTHERWISE NOTED, SHALL BE NEW, FREE FROM DEFECTS AND SHALL CONFORM WITH THE STANDARDS OF UL.
 - VOLTAGE, AMPERE, AND OTHER RATINGS OF EQUIPMENT SHALL BE SUITABLE FOR USE INTENDED. DISCONNECT SWITCHES SHALL BE PROPERLY HORSEPOWER RATED AND SUITABLE FOR VOLTAGE AND AMPERE RATING OF LOAD.
 - THE DRAWINGS GENERALLY INDICATES THE RACEWAY SIZE, THE NUMBER, SIZE, AND INSULATION TYPE OF CONDUCTORS TO BE PROVIDED AND INSTALLED. WHERE THESE ITEMS DO NOT MEET MINIMUM APPLICABLE CODES, FOR EQUIPMENT BEING SERVED, COMPLY AS REQUIRED AT NO ADDITIONAL COST.

2.02 RACEWAYS

- A. GALVANIZED RIGID CONDUIT (GRC); INCLUDING ELBOWS AND COUPLINGS. INTERMEDIATE METAL CONDUIT (IMC); INCLUDING ELBOWS AND COUPLINGS.
- ELECTRIC METALLIC TUBING (EMT) WITH FITTINGS OF PRESSED STEEL OR MALLEABLE IRON, COMPRESSION TYPE (IN WET AREAS ONLY) WITH INSULATED THROATS.
- D. RIGID NON-METALLIC CONDUIT: (PVC) U.L. LABELED SCHEDULE 40 P.V.C.
- 2.03 DEVICE AND JUNCTION BOXES: INCLUDE PLASTER RINGS, COVERS, AND KO SEALS AS REQUIRED. 2.04 WIRE AND CABLE: UNLESS OTHERWISE NOTED, WIRE AND CABLE SHALL BE SOFT DRAWN, ANNEALED COPPER. WIRE SIZES NO. 8 AND LARGER AND CONDUCTORS SERVING MOTORS AND SUBJECT TO VIBRATIONS SHALL BE STRANDED CABLE. INSULATION TO BE THWN/THHN, JACKETED 90C INSULATED WIRE. PROVIDE WIRE COLOR IDENTIFICATION: NEUTRAL WIRE - WHITE, LIVE WIRE - BLACK, RED, BLUE ON 120/208 VOLT SYSTEM: NEUTRAL WIRE - GREY, LIVE WIRE - BROWN, ORANGE YELLOW ON 277/480 VOLT SYSTEM: GROUND - GREEN
- 2.05 ADDED PANELS TO BE PANELBOARDS LOAD CENTERS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY APPROVED.
- 2.06 SERVICE ENTRANCE AND DISTRIBUTION GEAR BY G.E., SQUARE "D" OR CUTLER HAMMER OR SIEMENS ONLY. INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS ARE NOT ALLOWED.
- 2.07 SWITCHBOARDS: COPPER BUSSING WITH FULL CAPACITY NEUTRAL.
- 2.11 120/208 VOLT AND 277/480 VOLT PANELBOARDS: 3 PHASE, 4 WIRE, COPPER BUS, COMPOSED OF AN ASSEMBLY OF BOLT-IN-PLACE MOLDED CASE CIRCUIT BREAKERS WITH THERMAL AND MAGNETIC TRIP AND TRIP FREE POSITION SEPARATE FROM EITHER ON OR OFF POSITIONS.
- 2.13 SAFETY SWITCHES: FUSED, HEAVY DUTY, HORSEPOWER RATED.
- 2.14 STARTERS, CONTACTORS AND CONTROL DEVICES: PROVIDE AS SHOWN AND AS REQUIRED BY CODE. FURNISH COMPLETE WITH PILOT LIGHTS, AUXILIARY CONTACTS, PUSH BUTTONS, HAND-OFF-ON SWITCHES, CONTROL DEVICES, AND OVERLOAD RELAYS. THERMAL OVERLOADS TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS. AMBIENTLY COMPENSATE ALL HEATERS EXPOSED TO HIGH TEMPERATURE OR INSTALLED
- 2.16 NAMEPLATES: PROVIDE BLACK LAMICOID NAMEPLATES WITH 3/16" HIGH WHITE ENGRAVED LETTERS ON PANELS, SWITCHBOARDS, MAINS AND SUBMAINS, DISTRIBUTION EQUIPMENT, REMOTE SAFETY SWITCHES, CIRCUIT BREAKERS, TIME SWITCHES, CONTACTORS, AND STARTERS.
- 2.17 WIRING DEVICES HUBBELL OR COMPARABLE LEVITON OR BRYANT: WHITE AND GREY IN COLOR - AS NOTED ON DRAWINGS OR PER ARCHITECT. 15 AMP DEVICES ALLOWED ONLY WHEN SPECIFICALLY DENOTED ON ELECTRICAL CONSTRUCTION DRAWINGS.
 - TOGGLE SWITCHES: SINGLE POLE HUBBELL 1221- 20A, 120/277V, THREE WAY HUBBELL 1223- 20A, 120/277V, FOUR WAY HUBBELL
 - RECEPTACLES: DUPLEX GROUNDING TYPE, SPECIFICATION GRADE, 125 VOLT, 20 AMPERES, SINGLE PHASE, HUBBELL NO. 5262 OR
 - COMPARABLE GROUND FAULT INTERRUPTER TYPE RECEPTACLE: DUPLEX GROUNDING TYPE, SPECIFICATION GRADE, 125 VOLT, 20 AMPERES,
- SINGLE PHASE, 5 mA GROUND TRIP, FEED THROUGH CONSTRUCTION. 2.18 DEVICE PLATES: LEXAN (STA-KLEEN), SMOOTH FINISH IN STAINLESS STEEL - AS NOTED ON PLANS. MULTI-GANG OUTLET PLATES SHALL BE USED FOR MULTI-GANG BOXES.
- 2.19 NOT USED. 2.20 LIGHTING FIXTURES
- A. ALL INTERIOR / BUILDING MOUNTED LIGHTING PROVIDED BY PX AND INSTALLED BY E.C.

B. ALL EXTERIOR SITE LIGHTING IS PROVIDED AND INSTALLED BY E.C.

3.01 GENERAL INSTALLATION

PART 3 - EXECUTION

- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN A NEAT, APPROVED, FINISHED, AND SAFE MANNER
 - INSPECT AND MAKE TIGHT ALL CONNECTIONS FOR ALL EQUIPMENT, INCLUDING FACTORY CONNECTIONS. TORQUE ALL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
- LIGHTING FIXTURES INSTALLED AND USED FOR LIGHTING DURING CONSTRUCTION SHALL BE RELAMPED WITH NEW LAMPS JUST
- PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. INSTALL SEISMIC RESTRAINT DEVICES FOR ALL CEILING MOUNTED EQUIPMENT, I.E. LAY-IN FIXTURES. PROVIDE GRID CLIPS AND #12 SLACK WIRES FROM FIXTURE CORNERS TO STRUCTURE.

3.02 RACEWAYS

- INSTALL COMPLETE RACEWAY SYSTEMS FOR ALL ELECTRICAL CONDUCTORS INCLUDING TELEPHONE, SIGNAL, CONTROL, AND
 - UNLESS OTHERWISE NOTED, INSTALL ALL RACEWAYS CONCEALED. WHERE IT IS NOT FEASIBLE TO CONCEAL RACEWAYS, INSTALL AS DIRECTED BY ARCHITECT.
 - INSTALL EXPOSED RACEWAYS TO RUN PARALLEL OR AT RIGHT ANGLES TO STRUCTURAL BUILDING LINES WITH NEAT BENDS AND NEATLY OFFSET INTO TERMINATIONS.
 - IN EMPTY RACEWAY PROVIDE AND INSTALL A NO. 14 NYLON DRAG LINE.
 - INSTALL RACEWAYS WITH APPROVED HEAVY DUTY SUPPORTS, STRAPS, HANGERS, CONNECTORS, AND COUPLINGS AS REQUIRED
 - TO MAINTAIN AN APPROVED INSTALLATION. NOT USED.
- H. MINIMUM CONDUIT SIZE TO BE 3/4" U.N.O.
- 3.03 GALVANIZED RIGID CONDUIT (GRC): ALL RACEWAYS SHALL BE GRC EXCEPT AS NOTED. CONDUIT, ELBOWS, AND STANDARD COUPLINGS SHALL BE HOT DIPPED GALVANIZED RIGID STEEL. IF PARTITIONS OR WALLS ARE SOLID CONCRETE OR ARE GROUTED SOLID WITH CONCRETE OR MORTAR, RIGID STEEL CONDUIT SHALL BE USED,
- 3.04 INTERMEDIATE METAL CONDUIT (IMC): IMC RACEWAY AND APPROVED FITTINGS WHERE PERMITTED BY APPLICABLE CODES AND REGULATIONS MAY BE USED IN LIEU OF RIGID STEEL CONDUIT. WHERE INSTALLED ABOVE FINISH GRADE AND ABOVE CONCRETE SLABS ON GRADE.
- 3.05 ELECTRIC METALLIC TUBING (EMT): EMT MAY BE USED WHERE CONCEALED IN AREAS ABOVE CEILINGS, FURRED SPACES, PARTITIONS OR WALLS. ALSO MAY BE EXPOSED, WHEN NOT IN HAZARDOUS AREAS, AREAS SUBJECT TO PHYSICAL DAMAGE, OR WHEN DIRECTLY EXPOSED TO RAIN OR WASH-DOWN. 3.06 FLEXIBLE METAL CONDUIT (FLEX): USE FLEXIBLE CONDUITS FOR CONNECTIONS TO MOTORS, WHERE SUBJECT TO MOVEMENT OR VIBRATION,
- AND LIQUID TIGHT WHERE EXPOSED TO MOISTURE OR OIL.
- 3.07 RIGID NONMETALLIC CONDUIT PVC SCHEDULE 40 MAY BE INSTALLED FOR DIRECT BURIAL RACEWAYS WHERE INSTALLED WITH MINIMUM COVERAGE PER NEC TABLE 300-5. ALL UNDERGROUND BENDS SHALL BE GRC.
- 3.08 OUTLET. PULL AND JUNCTION BOXES A. UNLESS OTHERWISE SHOWN OR AS DIRECTED PRIOR TO INSTALLATION, OUTLET BOXES SHALL GENERALLY BE PLACED AT THE FOLLOWING HEIGHTS, CENTER OF BOX TO FINISHED FLOOR LEVEL.
 - WALL SWITCHES: 44".
- CONVENIENCE RECEPTACLES: 18" (OR 4" ABOVE COUNTERS) AND/OR AS NOTED. (SIMILAR TYPE OUTLETS SHALL BE MOUNTED AT SAME HEIGHT IN EACH AREA). GROUNDING PIN AT BOTTOM.
- D. OTHER OUTLET TYPES: REFER TO ELECTRICAL SYMBOL LIST ON THIS SHEET. 3.09 CONDUCTORS (COPPER ONLY)
 - A. USE SPECIFIED COLOR SCHEDULE FOR ALL WIRING. WHERE LARGE CONDUCTORS ARE NOT AVAILABLE IN COLORS, IDENTIFY WITH
 - PERMANENT COLORED TAPE AT ALL TERMINATIONS, JUNCTION BOXES, ETC. COLOR CODING PER NEC. MAKE TAPS, JOINTS, SPLICES, AND OTHER CONNECTIONS WITH FIXTURE CONNECTORS.
 - DO NOT INSTALL WIRING OR PULL WIRES, IN RACEWAYS UNTIL RACEWAY SYSTEM IS COMPLETE, CLEAN, DRY, AND FREE OF ALL
 - FOREIGN MATERIALS. LUBRICATE AS REQUIRED. D. MINIMUM CONDUCTOR SIZE TO BE #12 CU. THWN.
- 3.10 LIGHTING FIXTURES A. LEAVE FIXTURES AND LAMPS CLEAN OF ALL DIRT, DUST, GREASE SPOTS AND DEBRIS. ALL GLASS, PLASTIC AND OTHER
 - COMPONENTS SHALL BE UNSCRATCHED AND UNBROKEN. FIT AND ADJUST ALL FIXTURES. WHERE STRUCTURAL CONDITIONS, PARTITIONS, FURNITURE, SHELVING, AND AIR CONDITIONING DIFFUSERS INTERFERE WITH THE LIGHTING FIXTURES AT LOCATIONS SHOWN, NOTIFY ARCHITECT IN WRITING AND RELOCATE AT NO
 - ADDITIONAL COST AS DIRECTED. FIXTURES WITH FINISH TRIM OR LENS FRAMES SHALL BE GASKETED AND BAFFLED TO PREVENT LIGHT LEAKS. INSTALL SO THAT NO
 - FIXTURES MOUNTED DIRECTLY ON COMBUSTIBLE LOW-DENSITY CEILINGS SHALL MEET UL APPROVAL FOR THIS CONDITION AND BE

PLAINLY MARKED AS SUCH. 3.11 GROUNDING

- A. GROUNDING FOR DISTRIBUTION EQUIPMENT, EQUIPMENT AND MATERIALS WITH ELECTRICAL CONNECTIONS, ELECTRIC MOTOR FRAMES, ELECTRIC RACEWAY AND RELATED EQUIPMENT, SHALL BE EFFECTIVELY AND PERMANENTLY GROUNDED IN ACCORDANCE WITH PERTINENT SECTIONS OF ARTICLE 250 OF NEC. RESISTANCE TO GROUND SHALL NOT EXCEED 10 OHMS.
- ALL RACEWAYS SHALL HAVE AN APPROVED SIZED, INSULATED, STRANDED COPPER GROUNDING CONDUCTOR.
- WHERE RACEWAYS CONNECT TO A CONCENTRIC K.O. PROVIDE GROUNDING LOCKNUT OR BUSHING AND BOND WIRE EXTENDED AND
- BONDED TO ENCLOSURE, SIZE AS PER NEC. 3.12 DITCHING, EXCAVATION AND BACKFILLING: PERFORM ALL DITCHING, EXCAVATION AND BACKFILLING REQUIRED FOR THE ELECTRICAL WORK.

ETC., SHALL BE REMOVED AND REPLACED. ANY DEVICE, APPARATUS OR FIXTURE UNDER THIS CONTRACT SHOWING SUBSTANDARD READINGS

ELECTRICAL SPECIFICATIONS 3

- PROVIDE AND MAINTAIN ALL SHEATHING, BRACING AND PROPER GUARDS FOR PREVENTION OF ACCIDENTS. 3.13 UTILITY COMPANY SERVICE CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING AND PROVIDING REQUIRED WORK FOR SUPPLYING
- ELECTRICAL POWER AND COMMUNICATIONS UTILITIES TO THE PROJECT. 3.14 FINAL INSPECTION: TEST SYSTEM FOR SHORTS AND OPENS. FAULTY WIRING SHALL BE REMOVED AND REPLACED. AFTER SYSTEM IS CONNECTED COMPLETELY. TEST FOR INSULATION RESISTANCE, RESISTANCE LOWER THAN OUTLINED IN THE NEC. MANUFACTURER'S DATA.
- SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ARCHITECT. 3.15 LABEL ALL RECEPTACLES WITH 3/16" HIGH BLACK LETTERING ON CLEAR TAPE. IF THE RECEPTACLE IS BLACK OR BROWN. PROVIDE WHITE LETTERING ON CLEAR TAPE. LABEL TO BE NEATLY CENTERED IN THE TOP SPACE OF THE COVERPLATE, AND SHALL INDICATE THE SERVING PANEL AND CIRCUIT ORIGIN.

THE ELECTRICAL DRAWINGS. SPECIFICATIONS AND GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND THE DOCUMENTS SHALL BE USED FOR THE PURPOSE OF BIDDING, BUILDING DEPARTMENT REVIEW, AND TO SECURE THE NECESSARY CONSTRUCTION PERMIT ONLY.

GENERAL NOTES

- BRANCH CIRCUITING AND WIRE COUNT MAY NOT BE INDICATED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE TO COMPLETE THE BRANCH CIRCUIT WIRING IN ACCORDANCE WITH PLAN NOTES AND AS PERMITTED BY AUTHORITY, CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS AS A PART OF RECORD DRAWING SUBMITTAL TO ARCHITECT AND AUTHORITY HAVING JURISDICTION (AHJ).
- ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES / AMENDMENTS. WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.
- ALL ELECTRICAL EQUIPMENT SHOWN IS NEW, CONTRACTOR FURNISHED AND INSTALLED, UNLESS OTHERWISE NOTED. IF CONTRACTOR PROPOSES TO SUBSTITUTE SPECIFIC EQUIPMENT SPECIFIED, A REQUEST FOR CONSIDERATION SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO THE BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. NO SUBSTITUTIONS SHALL BE IMPLEMENTED WITHOUT THE APPROVAL OF THE ENGINEER OR RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE, AT HIS OWN EXPENSE, FOR ANY CHANGE RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, OR SUBSTITUTIONS WHICH AFFECT THE WORK OF OTHER CONTRACTORS.
- THE ELECTRICAL DRAWINGS, CONDUIT RUNS, WIRING AND ELECTRICAL INFORMATION ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE EXACT LOCATION OF EQUIPMENT OR OUTLETS. COORDINATE WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES, CEILING MOUNTED OUTLETS AND
- ALL DEVICE MOUNTING HEIGHTS AND EXACT LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPES OF CEILING SYSTEM. FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHALL BE LISTED AND LABELED FOR USE IN SUCH LOCATIONS. CONTRACTOR SHALL PROVIDE ALL REQUIRED TRIMS AND HARDWARE TO ACCOMMODATE CEILING
- ALL RECESSED LIGHTING FIXTURES, PANELBOARDS, SWITCHES, ETC. MOUNTED IN FIRE RATED STRUCTURES SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE STRUCTURE. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN THE FIRE RATING. FURNISH AND INSTALL FIRE RATED ENCLOSURE FOR ALL EQUIPMENT PENETRATING INTO FIRE RATED ENVELOPS, SPACES ETC.
- PORTIONS OF THE CEILING SYSTEMS MAY BE INACCESSIBLE, THEREFORE, THE CONTRACTOR SHALL STRATEGICALLY LOCATE ACCESS BOXES, ETC.. WHICH SHALL BE READILY ACCESSIBLE. ALL LIGHTING FIXTURE WIRING, BALLASTS, J-BOXES, ETC. SHALL BE ACCESSIBLE FROM FIXTURE OPENING
- 11. ALL WIRING AND ELECTRICAL EQUIPMENT SERVING MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH MECHANICAL AND PLUMBING SPECIFICATIONS AND ASSOCIATED DRAWINGS. CONTRACTOR SHALL OBTAIN THE REQUIRED MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE ALL EQUIPMENT, RACEWAYS, WIRING, FITTINGS, ETC., AS INDICATED ON CONSTRUCTION DOCUMENTS.
- 12. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. VERIFY ELECTRICAL CHARACTERISTICS AND U.L. LISTING PRIOR TO CONNECTION.
- 13. THE CONTRACTOR SHALL VERIFY THE LOAD AND INPUT VOLTAGE OF ALL PROVIDED EQUIPMENT TO MATCH LOAD INPUT OF ALL EQUIPMENT BEING
- 14. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS AND PARTITIONS MUST BE SEPARATED BY DISTANCE OF 24 IN. HORIZONTALLY, IN ACCORDANCE WITH I.B.C. SEC. 711.3.2. OPENINGS IN FIRE RATED WALLS MUST BE FIRE STOPPED.
- 15. PROVIDE AN ADDITIONAL JUNCTION BOX EXTENSION RING (SIZE AS REQUIRED) WHERE THE NUMBER OF CONDUCTORS EXCEEDS THE MAXIMUM ALLOWED FOR A GIVEN JUNCTION POINT OR OUTLET.
- 16. CONDUCTORS SHALL BE COPPER THHN/THWN 600 VOLT INSULATION UNLESS OTHERWISE NOTED. USE PROPER TEMPERATURE RATING OF CONDUCTORS BASED ON THE AMBIENT AIR TEMPERATURE WHERE CONDUCTORS ARE BEING USED. HIGHER AMPACITY CONDUCTOR AND LARGER RACEWAY SHALL BE PROVIDED TO OFFSET THE AMPACITY CORRECTION FACTORS AS INDICATED IN NEC ARTICLE 310 AND ELSEWHERE IN CODE.
- 7. ALL LIGHTING FIXTURES PROVIDED BY PANDA EXPRESS INSTALLED BY GC UNLESS NOTED OTHERWISE.
- 18. DO ALL DRILLING, CUTTING, AND/OR CHANNELING AS REQUIRED FOR ELECTRICAL WORK INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS NDICATED OTHERWISE. PAINT ALL EXPOSED ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTING TO MATCH IN COLOR TO ADJACENT SURFACES IN FINISHED AREAS. (PROTECT UL LISTINGS LABELS FROM PAINT).
- MERGENCY LIGHTING SHALL BE PROVIDED PER I.B.C. PROVIDE ADDITIONAL EMERGENCY ILLUMINATION AS REQUIRED BY AUTHORITIES HAVING JURISDICTIONS.
- LL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA.

FIXED EQUIPMENT ON GRADE: 33% OF OPERATING WEIGHT FIXED EQUIPMENT ON STRUCTURE: 50% OF OPERATING WEIGHT **EMERGENCY POWER AND COMMUNICATION & EQUIPMENT** ON GRADE: 50% OF OPERATING WEIGHT EMERGENCY POWER AND COMMUNICATION ON

OPERATING WEIGHT FOR FLEXIBLE MOUNTED EQUIPMENT DOUBLE THE ABOVE VALUES. SIMULTANEOUS VERTICAL FORCE - USE 1/3 HORIZONTAL FORCE. CONDUIT, BUSDUCT, CABLE TRAY, WIREWAYS, ETC., SHALL BE BRACED IN ACCORDANCE WITH "GUILDELINES", PUBLISHED BY SMACNA AND PPIC.

GENERAL NOTES 2

STRUCTURE:

THESE DRAWINGS ARE SUBJECT TO APPROVAL BY THE BUILDING DEPARTMENT, FIRE MARSHAL, UTILITY COMPANY AND OTHER AUTHORITIES HAVING JURISDICTION (AHJ). BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK. THE CONTRACTOR INDICATES THAT HE OR SHE HAS REVIEWED THE PLANS THOROUGHLY AND ACCEPTED FULL RESPONSIBILITY OF PLAN CORRECTIONS AND ASSOCIATED CONSTRUCTION COSTS REQUIRED BY AHJ.



MC CABLE SHALL NOT BE USED. PREWIRED MC CABLE WHIPS FROM LIGHTING FIXTURES ARE ACCEPTABLE WHEN SUPPLIED WITH THE FIXTURE AND NO LONGER THAN 72".

ELECTRICIAN TO PROVIDE STAINLESS STEEL COVER PLATES FOR ALL LOW VOLTAGE OUTLETS.

IF PROVIDED UNDER SLAB ALL UNDERGROUND CONDUIT SHALL BE 12" BELOW FINISHED GRADE.

ELECTRICAL SYMBOLS LIST NOTE: ALL DIMENSIONS GIVEN ARE TO DEVICE CENTERLINES. CONTRACTOR TO COORDINATE ALL INSTALLATIONS. POWER DISTRIBUTION **RECEPTACLES & COMMUNICATIONS OUTLETS** DUPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O. SINGLE-POLE SWITCH, MANUAL MOTOR STARTER SIMPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O. J-BOX (WITH FLEX CONNECTION TO EQUIPMENT. ISOLATED GROUND SIMPLEX CONVENIENCE OUTLET (ORANGE), DISCONNECT SWITCH, WITH RATING AS SHOWN ON PLANS 20A.,125V., MTD @ +18" A.F.F. COMBINATION DISCONNECT SWITCH / MOTOR STARTER FURNISHED BY DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP ELECTRICAL CONTRACTOR. BACKSPLASH OR APPROXIMATELY 44" A.F.F. BRANCH CIRCUITRY CONCEALED IN WALL OR CEILING WITH ADDITIONAL #12 INSULATED GND. U.N.O. HACHURES INDICATE NUMBER GFCI DUPLEX CONVENIENCE OUTLET, 20A, 125V, 5 mA TRIP, MTD @ 18" OF CURRENT CARRYING CONDUCTORS. 'X' INDICATES ADDITIONAL INSULATED, ISOLATED GROUND CONDUCTORS. GFCI DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE BRANCH CIRCUITRY HOMERUN TO PANEL AS NOTED ON PLANS COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F. / NDICATES EXTERIOR UNDERGROUND WIRE RUNS TELEPHONE OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT W/ PULL WIRE TO MANAGER'S STATION. 'w' SUBSCRIPT LIGHTING & LIGHTING CONTROLS INDICATES WALL PHONE AT 54" AFF. DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" LIGHTING FIXTURE. SUBSCRIPT LETTER DENOTES FIXTURE TYPE AS CONDUIT WITH PULL WIRE TO MANAGER'S STATION. DESCRIBED IN LIGHT FIXTURE SCHEDULE. COMBINATION TEL/DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION. DENOTES FIXTURE CONTROL. 300V. 20A. T.V. SYSTEM DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION. WHEN LEVITON Renoir II WALLBOX DIMMER - SINGLE-POLE SWITCH @ 44" SHOWN ADJACENT RECEPTACLE, MOUNT AT RECEPTACLE HEIGHT. A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 120V, BALLAST 0-10V REFER TO RECEPTACLE FOR MOUNTING HEIGHT. OCCUPANCY SENSOR SWITCH WITH OFF CONTROL, AND ADJUSTABLE SPECIAL PURPOSE RECEPTACLE MTD. @ 18" A.F.F. U.N.O., AMPERAGE SETTINGS FOR TIME OFF DELAY, FOOTCANDLE LEVEL, AND MASKING. AND PHASE AS NOTED ON PLANS, NEMA CONFIGURATION AS REQ'D. WATTSTOPPER OR EQUAL, MOUNT AT 44" A.F.F. U.N.O. USE PW-100 FOR ISOLATED GROUND DUPLEX CONVENIENCE OUTLET (ORANGE), OFFICES/CONF/ETC. 20A.,125V., MTD @ +18" A.F.F. LEVITON PROVOLT 05C20-MDW DIMMING DAYLIGHT SENSOR FOR SIDELIT DAYLIGHTING ZONES. LOCATE AND INSTALL PER MANUFACTURER'S DOUBLE DUPLEX CONVENIENCE OUTLETS UNDER COMMON COVER INSTRUCTIONS. ALL CONTROLS SHALL COMPLY WITH LOCAL ENERGY CODE REQUIREMENTS. PROVIDE LOCAL MANUAL SWITCH AS SHOWN IN ISOLATED DOUBLE DUPLEX CONVENIENCE OUTLETS (ORANGE) THE LIGHTING PLAN FOR ON / OFF CONTROL 20A.,125V. SPEAKER INTERIOR LIGHTING SHUT DOWN OVERRIDE. 20 AMP 60-MINUTE INDOOR IN-WALL SPRING WOUND COUNTDOWN TIMER, WHITE BY INTERMATIC. FIRE ALARM **ABBREVIATIONS** MANUAL PULL STATION WITH KEYED RESET. MOUNT UNIT AT 44" A.F.F. AMPERES M.C.B. MAIN CIRCUIT BREAKER ALIGN WITH LIGHT SWITCH IF APPLICABLE. M.L.O. MAIN LUGS ONLY ALUMINUM XENON STROBE UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING ABOVE FINISHED FLOOR MOUNTED MTD. (WHICHEVER IS LOWER). MUST MEET OR EXCEED A.D.A. ABOVE FINISHED GRADE CONDUIT REQUIREMENTS. CIRCUIT BREAKER T.M.B. TELEPHONE MOUNTING BOARD COMBINATION XENON STROBE AND HORN/CHIME UNIT MOUNTED AT COPPER TYP TYPICAL 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). UNIT MUST UNLESS NOTED OTHERWISE DISCONNECT MEET OR EXCEED A.D.A. REQUIREMENTS. VOLTS GROUND FAULT CURRENT INTERRUPTER FIRE ALARM CONTROL PANEL. MOUNT TOP OF UNIT AT 72" A.F.F. W.P. WEATHERPROOF GROUND TRANSFORMER XFMR FIRE ALARM ANNUNCIATION PANEL. MOUNT TOP OF UNIT AT 72" A.F.F. HORSE POWER PHASE PHOTO ELECTRIC TYPE SMOKE DETECTOR. ELECTRICAL CONTRACTOR GENERAL CONTRACTOR DUCT MOUNTED PHOTO ELECTRIC SMOKE DETECTOR. RATE OF RISE HEAT DETECTOR.



ELECTRICAL SYMBOLS SPECIFICATIONS & NOTES

ELECTRICAL SYMBOLS

PANDA HOME 2700 R1

NOT TO SCALE E-000 NOT TO SCALE E-000 NOT TO SCALE E-000

LIGH	ITING FIXTURE SCHEDUL	E.	PROVIDED FOR INFORMATION ONLY. VERIFY AND INSTALL PER ELECTRICA					
SYMBOL	DESCRIPTION	QTY.	MFR. & CAT. NO.	REMARK				
INTERI	OR LIGHTING ITEM							
• L1	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	13	ELITE FIXTURE: 24-FPL-BL-LED-3000L/4000L/5000L- DIM10-MVOLT-35K/40K/50K-85	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC				
L1EM	T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	4	ELITE FIXTURE: 24-FPL-BL-LED-3000L/4000L/5000L- DIM10-MVOLT-35K/40K/50K-85-INTGO-O-EMG-LED-10W	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY OWNER INSTALLED BY GC				
⊗ L4H0	UNIVERSAL MOUNT EXIT SIGN, LED LIGHTED, 120/277V WITH BATTERY PACK, 2 FACE, GREEN LETTER	4	EXITRONIX GVEX-U-BP-WB-BL-R6	EXIT SIGN FURNISHED BY OWNER, INSTALLED BY GC				
⊕ L6A	HOOD LIGHT	12	FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER	LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR. ELECTRIC CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL				
L6B	WALK-IN COOLER FLUORESCENT LIGHT, 120 V 48"	3	KASON FIXTURE: # 11810LCT400	FURNISHED BY WIC VENDOR, G.R.E. , INSTALLED BY GC				
O L19	DOWN LIGHT, RECESSED IN CEILING	24	ELITE HOUSING: LD6IC-AT ELITE TRIM: RL631-950L-DIMTR-120-30K-90-RL631-RT-W-WH	FURNISHED BY OWNER, INSTALLED BY GC				
O L19B	DOWN LIGHT, RECESSED IN CEILING "B" SHALL DESIGNATE BLACK TRIM		ELITE HOUSING: LD6IC-AT ELITE TRIM: RL631-950L-DIMTR-120-30K-90-RL631-RT-MB-BK	FURNISHED BY OWNER, INSTALLED BY GC				
L19EM	EMERGENCY DOWN LIGHT, RECESSED IN CEILING		ELITE HOUSING: LD6IC-AT ELITE TRIM: RL631-950L-DIMTR-120-30K-90-RL631-RT-W-WH	EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC				
O L20W	4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING "W" SHALL DESIGNATE WHITE TRIM		ELITE HOUSING: BL4-50-M-120-AT-W ELITE TRIM: B1406-WH	FURNISHED BY OWNER, INSTALLED BY GC				
O L20B	4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING "B" SHALL DESIGNATE BLACK TRIM		ELITE HOUSING: BL4-50-M-120-AT-W ELITE TRIM: B1406-BK	FURNISHED BY OWNER, INSTALLED BY GC				
	WHITE LED AT DINING ROOM CANOPY	22.3 L.F.	ZLED FIXTURE: VIL-SIGN-60W-WHT-DC-66MOD-STRING-KIT	FURNISHED BY OWNER, INSTALLED BY GC				
	WHITE LED AT FIXTURE LOW WALL	22.3 L.F.	NOVA FLEX - DESIGN SERIES FIXTURE: NF-CH-1707-C/LEAR/30-2M	FURNISHED BY OWNER, INSTALLED BY GC				
L49	BRONZE SWOOP LIGHT	5	FIXTURE - TBD	DINING AREA - FURNISHED BY OWNER, INSTALLED BY GC				
O L50R	12" DIA. PENDANT	3	KAI PENDANT 2 BULB: LED EDISON LAMP.1173467	FURNISHED BY OWNER, INSTALLED BY GC				
	MICRO INVERTER	1	EVENLITE #PWII12LC	FURNISHED BY OWNER, INSTALLED BY GC				
(3)	SPEAKER	2	-	FURNISHED BY MUSIC VENDOR, INSTALLED BY MUSIC VENDOR				
1. ONE 2. ONE	LIGHTING REQUIREMENTS: "NL" DE NL BY SERVICE COUNTER, POS / CA ENL BY POS / CASHIER AT DRIVE THE NL BY EACH EXIT DOORS IN DINNIN	ASHIE RU ST	R ATION IF APPLICABLE	IT ON UNSWITCHED CIRCUIT.				
EXTER	IOR LIGHTING							
L40	LINEAR LIGHT AT EXTERIOR STORAGE ROOM	1	COOPER MX-4VT2-LD4-6-DR-UNV-L840-CD1-WL-U	FURNISHED BY OWNER, INSTALLED BY GC				
L85	WALL MOUNTED OVER SERVICE DOOR FIXTURE	1	ORACLE: OWP-FC-116-LED-3500L-DIM10-MVOLT-50K-BK	OVER EXTERIOR SERVICE DOOR. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC				
	NAVILITE EMERGENCY LIGHT	4	EXITRONIX MLED1-G-WP	OVER EXTERIOR ENTRANCE & SERVICE DOORS. REFER ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC				
L90BL	DECORATIVE LED WALL SCONCE	4	HINKLEY LIGHTING, ATLANTIS; BLACK; 1649SK-LED	AT ENTRY DOORS. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC				

LITHONIA LIGHTING HGX LED 2RH 40K 120 MO DDB M2

LED MOTION SECURITY FLOODLIGHT

EQUIPM	ENT SCH	IEDULE													
ELECTRICA	<u>_</u>					DESCRI	PTION								
D DIRECT	CONNECTION	J				o ow	NER(PANDA EXPRESS,IN	IC.)	S SERVING AREA						
C CONVIN	IIENT OUTLET	-				GC GEN	GC GENERAL CONTRACTOR KITCHEN								
FSO FLOOR S	STUB OUT					EC ELECTRICAL CONTRACTOR (E) EXISTING									
DC DROPPE	D CORD					KEC KITO	CHEN EQUIPMENT COME	PANY	UC UNDER COUNTER						
CONNECTION	LOAD (VA)	AMP.	PHASE	H.P.	VOLT	REMARKS MANUFACTURE		MODEL NO.	EQUIPMENT DESCRIPTION	TAG					
D	475	3.95	1		120		KEC	PER MFG	44" SNEEZE GUARD ASSEMBLY	1S2B1					
D	425	3.54	1		120		KEC	PER MFG	58" SNEEZE GUARD ASSEMBLY	1S2B2					
С	650	5.41	1		120		I/O CONTROLS CORP.	ABC-065-14	INDUCTION WELL - 17QT	3F					
С	650	5.41	1		120		I/O CONTROLS CORP.	ABC-065-10	INDUCTION WELL - 11QT	3G					
С	1116	9.3	1		120		CORNELIUS	IDC-255	BEVERAGE DISPENSER	4A					
С	864	7.2	1		120		WELBILT	16-2172	WATER BOOSTER	4 S3					
С	1776	14.8	1		120		BUNN	TB3	ICED TEA BREWER (2)	9D					
С	132	1.1	1		120		MANITOWOC	IBF0820C-161	825 LB ICE CUBE MACHINE	10K					
С			1		115		MANITOWOC	IYT0620A	CUBER HALF DICE CUBE	10L					
D			1		208/230		MANITOWOC	CVDF0900A-261	REMOTE CONDENSER	10KS1					
С	840	7	1		120		KEC	PER MFG	42" CHINESE RANGE	20R					
С			1		120		FRYMASTER	21814GF	2-FRYER POT UNIT	21F					
С			1		120		NCC	TNC-T9028-NC01	FRYER TIMER	2154					
С	3600	17.3	14		208		VULCAN	VMCS-101	(2) ELECTRIC GRIDDLE TOP	23E					
С	1776	14.8	1		120		WINSTON	HA4005	RICE HOLDING ROLLING CABINET	24HR					
С	610	5.3	1	1/2	115		RANDELL	9205F-290-PE-N	60" WORKTOP FREEZER	30K2N					
D	416	2 🚄	1	1.5	208		IMPERIAL BROWN/GRE		WALK-IN COOLER UNIT	31					
D	3120	15	1	1.5	208	+	IMPERIAL BROWN/GRE		WALK-IN COOLER COND.	315					
							IMPERIAL BROWN/GRE		WALK-IN FREEZER(POWERED FROM COND. UNIT)	32					
D	2080	10	1	1.5	208		IMPERIAL BROWN/GRE		WALK-IN FREEZER COND.	32S1					
D	500	4.16	1		120	+	IMPERIAL BROWN/GRE		W.I.F. LTG, DOOR HEATER	32S7					
С	1035	9	1	3/8	115		RANDELL		84" REF. PREP. TABLE	34A2LN					
С	1080	9	1	1/3	120		RANDELL	PT48-18W-L-PE-N	48" REF. PREP. TABLE	34D2N					
С	1520	7.3	1	2	208		ELECTROLUX	727998	THAWING CABINET	40T					
С	1200	10	1		120		ELECTROLUX	DITO-TRS24	FOOD PROCESSOR	53					
С	105	0.875	1		120		WELBON	WRS-1088BS	RICE WARMER	54A					
С	19090	53	3	4	208		HOBART	PW10SER	POT WASHER	70D					
D	1800	8.65	1		208		SHARP	R-CD1800M	MICROWAVE	55A					
С	100	0.83	1		120		DELL OPTIPLEX	Xe2	COMPUTER	83A					
С	100	0.83	1		120				POS PRINTERS	86A					
С	500	4.16	1		120				CASH REGISTER SYSTEM	94					
D	587	5.1	1	1/2	115		MARS	STD242-1U	AIR CURTAIN DOOR	M8D					
D	587	5.1	1	1/2	115		MARS	STD242-1U	AIR CURTAIN DOOR	M8C					
D	4160	20	1		120,208		QUIK-SERV	CF-25 NON-HEATED	DT WINDOW AIR CURTAIN	M9A					
D	2400	20	1		120		QUIK-SERV	SST-4860E	DT WINDOW	M10					
C	960	8	1		120		RINNAI	MTO-00247	GAS TANKLESS WATER HEATER	Р3					
С	50	0.416	1		120		HYPERACTIVE		HYPERACTIVE TIMER SYS.	941A					
С	50	0.416	1		120		DELL (17")		LCD MONITOR-MANAGER	94216					
С	50	0.416	1		120		HME		HME INTERCOM SYS.	9431					
С	60	0.5	1		120		POSIFLEX		LCD DT MONITOR	94W					
С	50	0.416	1		120		TOSHIBA (TIME LAPSE)		SECURITY VCR	954S2					
С	50	0.416	1		120		DELL (17" COLOR)		SECURITY MONITORS	954S3					
С	100	0.833	1		120				MUSIC SYSTEM	955					
С	130	1.08	1		120		LG	PER MFG	LCD DISPLAY MONITOR	963B					
С	130	1.08	1		120		LG	55WS50BS-B	LCD DISPLAY MONITOR	96-3B					
NOTE: -	CONTACTOR	TO COORE	DINATE WIT	H MANU	FACTURER	FOR EXACT	POWER REQUIREMENT	S AND CONNECTION T	YPE OF THE EQUIPMENT AND PROVIDE						
	ACCORDING	LY. E.C. TO	PROVIDE S	HUNT TR	IP BREAKE	RS WHEREV	ER THEY ARE REQUIRED) .							
1.	PROVIDE SO	CORD DRO	P WITH STR	AIN RELI	EF. REFER 1	O ELECTRI	CAL POWER PLAN.								
2.	FURNISHED \	WITH CON	TROL BOX.	CONNEC	TALL COM	PONENTS.									
3.	PROVIDE WP	DISCONN	ECT SWITC	H. VERIFY	RATING V	VITH ACTU	AL EQUIPMENT.								



E-001

ELECTRICAL SCHEDULES

INTERIOR LIGHT SENSOR TO BE WALL MOUNTED AT +142" FURNISHED BY OWNER, INSTALLED BY GC

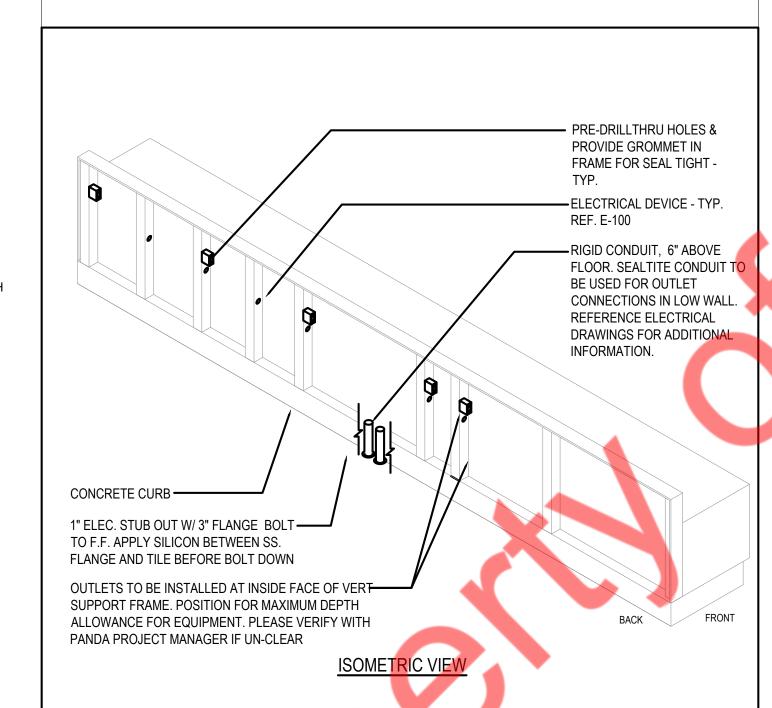
- ALL CIRCUITRY/CONDUIT FOR FRONT LINE EQUIPMENT TO BE ROUTED IN CASEWORK TO J-BOX IN WALL AND CONCEALED IN WALL.
- PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING OR LEAVING AREA OF TEMPERATURE DIFFERENCE. REFER TO WIRING NOTES 6/E-400 FOR ADDITIONAL INFORMATION.
- PROVIDE (2) 1-1/2" CONDUITS WITH PULL STRINGS FROM CASH REGISTER TO MANAGER STATION. SEE
- P.O.S. AND SERVICE LINE ELEVATIONS, 6/E-200.
- 4. SEE 'MANAGER STATION ELEVATION' 1/E-200 FOR ADDITIONAL OUTLETS AND J-BOXES.
- ANSUL PULL STATION. REFER TO DETAIL, 2/E-400.
- REFER TO 'LTG AND DOOR HEATER' WIRING DIAGRAM, 10/E-400.

REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, 8/E-400.

SHOW WINDOW RECEPTACLE SHALL BE CONTROLLED VIA SWITCH "b". REFER TO LIGHTING SWITCHBANK SCHEDULE, SHEET 4/E101. RECEPTACLE SHALL BE MOUNTED IN WALL AS CLOSE TO

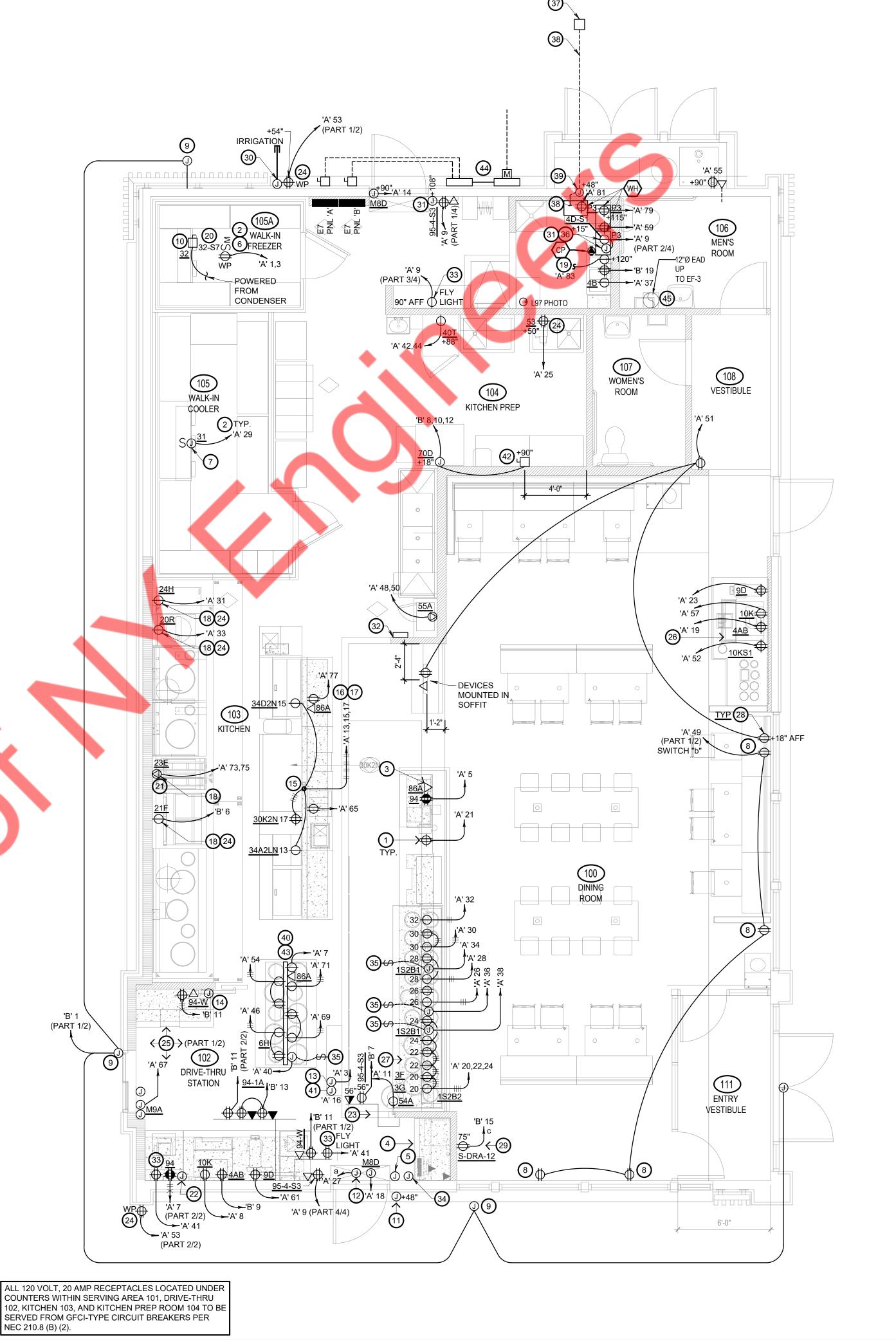
TOP OF STRUCTURAL HEADER AS POSSIBLE. CENTER ABOVE WINDOW ROUGH OPENING.

- BUILDING SIGNAGE/LOGO DEDICATED/PROPOSED W.P. J-BOX FOR SIGNAGE. COORDINATE LOCATION WITH ARCHITECT / OWNER / SIGN PACKAGE PRIOR TO ROUGH-IN. SIGN DISCONNECT PROVIDED BY
- 10. REFER TO 'FREEZER EVAPORATOR COIL' WIRING DIAGRAM, 9/E-400. THE FAN COIL UNIT IS POWERED FROM THE CONDENSER UNIT VIA DISCONNECT CONNECTION. HEAT TAPE PROVIDED AND INSTALLED
- 11. PROVIDE PULL STRING TO ABOVE CEILING FOR DOOR KEYPAD CONTROL WIRING.
- 12. J-BOX CIRCUIT ABOVE CEILING TO POWER ELEC. DOOR HARDWARE SYSTEM SHALL BE CONNECTED TO SWITCH 'A'. REFER 4/E-101 FOR SWITCHBANK DETAIL.
- 13. HOOD CONTROL PANEL/ANSUL SYSTEM CABINET. MOUNT CABINET DIRECTLY BELOW T-BAR CEILING.
- 14. PROVIDE 2-GANG J-BOX @ 42" AFF FOR HOOD CONTROL SWITCHES. REFER TO M-400 AND M-401.
- 15. 1" CONDUIT STUB UP LOCATION IN STAINLESS STEEL POWER PANEL FOR ISLAND KITCHEN EQUIPMENT CONNECTION. REFER TO DETAIL 2/A-109. COORDINATE LOCATION WITH ARCHITECT /
- 16. ROUTE CABLING / CIRCUITRY THROUGH 1" CONDUIT IN SLAB.
- 17. UTILIZE SEAL TIGHT CONDUIT FOR ALL WIRING INCLUDED ALONG LOW WALL PANEL.
- 18. ALL DEVICES UNDER HOOD TO BE PROVIDED AND INSTALLED WITH GROUND FAULT CIRCUIT BREAKER AND WATERPROOFING BOX (RED DOT #CKSUV). REFER TO COOKLINE ELECTRICAL ELEVATIONS, 3/E-200. ROUTE HOMERUN THROUGH CONTRACTOR INTERFACED WITH THE HOOD FIRE SUPPRESSION SYSTEM. REFERENCE 13/E-400 FOR ADDITIONAL INFORMATION
- SIMPLEX RECEPTACLE TO BE CONNECTED TO BACK-OF-HOUSE LIGHTING CIRCUITRY/CONTROL. CONTRACTOR TO PROVIDE PIGTAIL FROM CIRCULATION PUMP. COORDINATE FINAL DEVICE PLACEMENT W/ PLUMBING CONTRACTOR PRIOR TO INSTALL.
- 20. PROVIDE WEATHERPROOF RECEPTACLE FOR HEAT TAPE. COORDINATE FINAL LOCATION WITH REFRIGERATION INSTALLER.
- 21. ELECTRIC GRIDDLE '23E': FEED WITH (2) #6, (1) #10 GROUND, 3/4" CONDUIT. REFER TO 12/E-400.
- 22. SEE DRIVE THRU ELEVATION 2/E-200 FOR CONDUIT SIZES AND CONFIGURATIONS.
- 23. SEE TICKET PRINTER ELEVATIONS, 4/E-200.
- 24. PROVIDE WATERPROOFING, COVER, IN-USE RED DOT (#CKSUV).
- 25. SEE FOR DRIVE-THRU ELEVATIONS, 2/E-200.
- 26. SEE DRINK STATION ELEVATIONS, 5/E-200.
- 27. SEE 6/E-200 FOR SERVICE LINE ELEVATIONS.
- 28. SEE DEVICE / RECEPTACLE SCHEDULE 3/E400.
- 29. SEE DINING ROOM ELEVATION, DETAIL 7/E-200.
- 30. PROVIDE AND INSTALL 3/4" CONDUIT AND PULL STRING FROM CLOSEST LANDSCAPE AREA, THROUGH WALL UP TO EMPTY FLUSH MOUNTED JUNCTION BOX @ 54" A.F.F. (FOR IRRIGATION CONTROLS). CLOSE OFF CONDUIT IN LANDSCAPE AREA WITH REMOVABLE CAP. UTILIZE WP CIRCUIT A-53 NEAR
- 31. REFER TO 8/E-200 FOR LOCATION/INSTALLATION OF C02 DEVICE.
- 32. SEE SWITCH BANK ELEVATION, DETAIL 1/E-200.
- 33. FLY LIGHT RECEPTACLE SHALL BE INSTALLED WITH A RECESSED CLOCK SIMPLEX OUTLET. TYP OF ALL LOCATIONS.
- 34. SEE SECURITY KEY PAD ELEVATION 1/E200.
- 35. CONNECT HEAT LAMPS TO COUNTER-MOUNTED SWITCH PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PROVIDER.
- 36. PANDA EXPRESS TO PROVIDE C02 MONITOR, E.C. TO MOUNT OVER J-BOX WITH WIRING THROUGH WALL CONDUIT FOR CLEAN INSTALLATION. PROVIDE ALL OTHER REQUIRED CONNECTIONS AND COMPONENTS FOR FULLY WORKING SYSTEM.
- 37. PROVIDE IN-GRADE QUAZITE 8"X8" PC STYLE POLYMER CONCRETE BOX OR EQUAL FOR UNDERGROUND CABLE REQUIRED FOR THE STORE. PART NO. PC081XXXXX OR SIMILAR. REFER TO ELECTRICAL SITE PLAN 1/E105.
- 38. PROVIDE 1" CONDUIT FOR CABLE DEDICATED FOR ENTIRE STORE FROM IN-GRADE 8X8 QUAZITE BOX TO EXTERIOR CLOSET 6X6 FLUSH MOUNTED JUNCTION BOX. TERMINATE INTERIOR ABOVE CEILING.
- 39. PROVIDE FLUSH MOUNTED NEMA 1 6X6 JUNCTION/PULL BOX AT +48" HUBBELL OR EQUAL. ROUTE CABLE FROM EXTERIOR 6X6 IN 1" CONDUIT THROUGH BUILDING. TERMINATE INTERIOR ABOVE CEILING.
- 40. PROVIDE A (1) 3/4" UNDERGOUND CONDUIT AND PULLSTRING FOR LOW VOLTAGE WIRING. CONDUIT AND PULLSTRING TO RUN UNDERGROUND FROM HOTWELL CABINET AND STUB-UP THROUGH WALL AND ABOVE CEILING ADJACENT TO MANAGER STATION.
- 41. FIRE SUPPRESSION SHUTDOWN CONTACTOR LOCATED ABOVE CEILING, REFER TO 13/E-400.
- 42. ELECTRICIAN TO WALL MOUNT A NEMA ELECTRICAL DISCONNECT BOX AT +90". ELECTRICIAN TO SUPPLY A WIRE WHIP FROM BOX TO MACHINE, FINAL CONNECTIONS BY HOBART SERVICE.
- 43. PROVIDE (1) 1" UNDERGROUND CONDUIT AND PULLSTRING FOR HOTWELL CABINET. CONDUIT AND PULLSTRING TO RUN UNDERGROUND FROM HOTWELL CABINET AND STUB-UP BENEATH ELECTRICAL PANEL. REFER TO PANEL SCHEDULE.
- 14. PROVIDE (1) 3/4" CONDUIT AND PULLSTRING FOR OLO PRINTER AND TICKET PRINTER. CONDUIT AND PULLSTRING TO RUN FROM OLO PRINTER & SCANNER TO TABLET & STICKER PRINTER; STUB-UP THROUGH WALL.
- 45. EXHAST FAN POWER SUPPLY TO BE TAKEN FROM NEARBY LIGHTING CIRCUIT.



REFRIGERATION LINE ELEC DETAIL Scale= NTS **E-100**

- VERIFY QUANTITIES AND REQUIREMENTS OF ALL HVAC & KITCHEN EQUIPMENT PRIOR TO ROUGH IN.
- ALL TELEPHONE/DATA/TV CABLES AND WIRES, AND TERMINATIONS OF ALL REQUIRED CABLE AND JACKS WILL BE INSTALLED BY THIRD PARTY.
- POWER SUPPLY FOR COMPUTER AND CASH REGISTER (86A & 94) SHALL BE ON THE SAME CIRCUIT BREAKER, W/ISOLATED GROUND & ORANGE RECEPTACLE.
- ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
- WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2017 NEC OR LATER, ALL MULTI-WIRE ANCH CIRCUITS SHALL HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2017 NEC
- TRANSFORMERS SHALL BE MOUNTED ABOVE CEILING BELOW TRUSSES WITH LOW VOLTAGE WIRING FEEDING TO ALL EXTERIOR LIGHTS.
- ALL UNDERGROUND CONDUIT SHALL BE 12" BELOW F.F.





E-100

POWER FLOOR PLAN

POWER PLAN KEYED NOTES

POWER PLAN GENERAL NOTES 2 NOT TO SCALE **E-100**

NOT TO SCALE **E-100**

Scale: 1/4"=1'-0" **E-100**

POWER FLOOR PLAN

1. SWITCHBANK 'A'. REFER TO SCHEDULE 4/E-101.

2. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCHES AS NOTED IN LOWER CASE). REFER TO SCHEDULE 4/E-101 FOR MORE INFORMATION.

3. ROUTE THROUGH CONTACTS IN HOOD CONTROL PANEL 'M4' FOR CIRCUIT POWER. REFER TO 3/E-401.

4. PROVIDE SEPARATE UNSWITCHED HOT CONDUCTOR (SAME CIRCUIT, NOT CONTROLLED BY SWITCH IN SWITCHBANK) TO LOCALLY SWITCHED FIXTURES AND EMERGENCY FIXTURE BATTERY TRIGGER LEADS.

5. DUPLEX RECEPTACLE FOR LED ROPE. INSTALL ABOVE CEILING. REFER TO 8&9/A-402 FOR MORE INFORMATION.

6. WALK-IN COOLER LIGHT FIXTURES AND PILOT LIGHT SWITCH PROVIDED WITH COOLER INSTALLED BY E.C. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, 8/E-400.

7. WALK-IN FREEZER LIGHT FIXTURE AND PILOT LIGHT SWITCH PROVIDED WITH FREEZER INSTALLED BY E.C. REFER TO 'FREEZER LTG AND DOOR HEATER WIRING DIAGRAM', 10/E-400.

NOT USED.

9. FIXTURES IN THIS ROOM SHALL BE LOCALLY SWITCHED.

ON DETAIL 11/E400. SEQUENCE OF OPERATION: TIMECLOCK WIRED | 10. LIGHTING INVERTER FOR EMERGENCY LIGHTING TO BE MOUNTED TO BULKHEAD. RE: 9/E200.

(DOTS) TO OVER-RIDE THE TIMECLOCK FOR CLEANING AND AFTER 11. LED TRANSFORMER FOR LED ROPE LIGHTING LOCATION, MOUNT ABOVE CEILING.

12. NOT USED.

13. PROVIDE JUNCTION BOX ABOVE CEILING FOR THE BZ-150 UNIVERSAL POWER PACK REQUIRED FOR EXTERIOR MOTION CONTROL LED FIXTURES. PROVIDE LOW VOLTAGE CONNECTIONS AS REQUIRED TO LIGHTSAVER LS-102 SWITCHING PHOTOSENSOR SO THAT WHEN STORE OPERATIONS ARE OFF THIS EXTERIOR SECURITY LIGHT IS ACTIVATED BY EXTERIOR MOTION ONLY. VERIFY WITH MANUFACTURER'S RECOMMENDATIONS FOR WIRING DIAGRAM. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION.

• WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2008 14. PROVIDE WALL MOUNTED JUNCTION BOX AT +142" FOR INSTALLATION. INSTALL LIGHTSAVER LS-102 SWITCHING PHOTOSENSOR FOR EXTERIOR MOTION CONTROL SECURITY FIXTURES TYP OF 2 LOCATIONS. CONTROL TIMES OF CONTROL SO THAT WHEN STORE OPERATIONS ARE OFF INTERIOR LIGHTS GO OFF AND THE EXTERIOR MOTION LIGHTS ARE ACTIVATED WITH ANY MOTION DETECTED AFTER STORE HOURS. VERIFY WITH

SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2008 NEC ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS MANUFACTURER'S RECOMMENDATIONS FOR WIRING DIAGRAM. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION.

LIGHTING GENERAL NOTES 2 # LIGHTING KEYED NOTES NOT TO SCALE E-101 NOT TO SCALE E-101

ALL SWITCHES/DEVICES TO BE STANDARD SINGLE POLE. DO NOT USE "DECORA" TYPE SWITCH/DEVICE

210.4(B).

• CONTRACTOR SHALL PROVIDE ALL REQUIRED HARDWARES,

• FIXTURES THAT ARE TO BE ROUTED VIA TIMECLOCKS ARE SHOWN

FIRST FOR DESIGNATED CONTROL. SWITCHES ARE SERIES WIRED WITH THE CONTACTORS. UTILIZE DIGITAL OVERRIDE TIMER SWITCH

BRACKETS, ETC. FOR A COMPLETE LIGHTING FIXTURE

ALL LIGHTING FIXTURES SHALL BE SUPPORTED PER N.E.C.

CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES INCLUDING

E.C. SHALL INSTALL OWNER SUPPLIED LED STRIP LIGHTING & CUT

TO PROPER LENGTH. COORDINATE WITH OWNER FOR EXACT

NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS TO HAVE

• 'N.L.' DESIGNATION INDICATES NIGHT LIGHT ON UNSWITCHED

HOURS AS NEEDED. SEE DETAIL 11/E400

ALL FIXTURE BALLASTS SHALL BE U.L. LISTED.

EQUIPMENT GROUNDING CONDUCTOR.

410-16(C). SEE DETAIL, 4/E400.

OWNER-FURNISHED FIXTURES.

LENGTHS AND FINAL LOCATIONS.

FIXTURES TO BE ROUTED VIA TIME TIMECLOCKS ARE SHOWN ON DETAIL 11/E400.

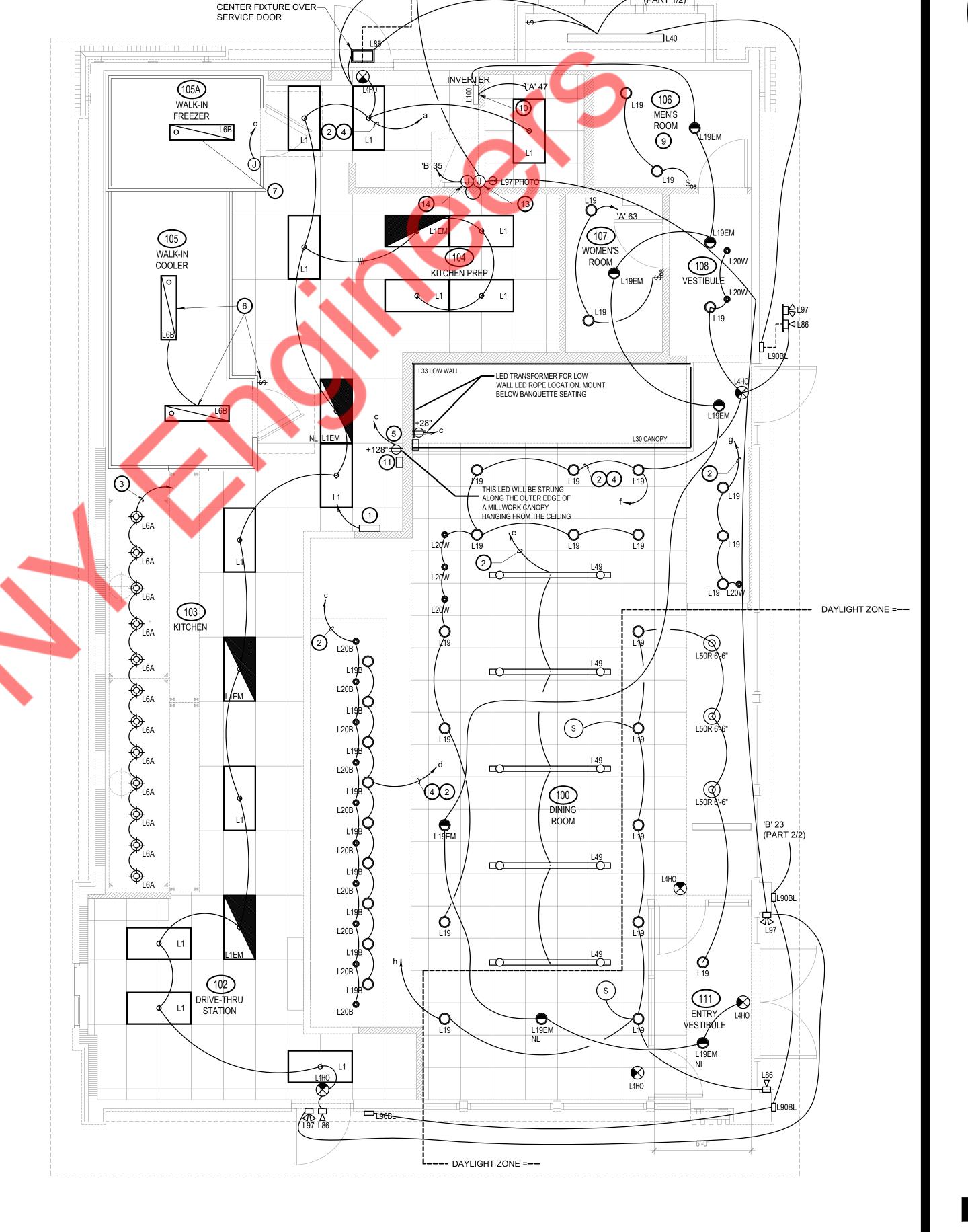
NOTE: CONTRACTOR TO INSTALL (2) 5 GANG SWITCH BOXES AS SHOWN BELOW. DO NOT INSTALL SEPERATE/INDIVIDUAL BOXES FOR EACH

(a)	(b)	(c)	(d)	(e)
\$	\$	\$	\$	\$
BACK OF HOUSE LTG & EX. FAN & RECIRC PUMP	SHOW WINDOW RECEPS	WALK-IN, MENU LED ACCENTS	SERVING LINE SOFFIT	DINING PENDANTS
(f)	(g)	(h)	(i)	(j)
\$	\$	\$	\$	OFF
INTERIOR DINING	BEVERAGE COUNTER	DAYLIGHT HARVEST	SPARE	INTERIOR LIGHTING SHUT DOWN OVERRIDE

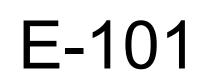
		SWITCHE	BANK SCHEDU	JLE '/	Δ'
	TAG	SWITCH TYPE	AREA SERVED / SWITCH LABEL	CIRCUIT	LOAD
	а	TOGGLE SWITCH	BACK-OF-HOUSE / RR FANS	'A' 45	530 VA
ı	b	TOGGLE SWITCH	SHOW WINDOW RECEP	'A' 49	720 VA
	С	TOGGLE SWITCH	WALK-INS, MENU, LED ACCENTS	'A' 1	275 VA
ı	d	TOGGLE SWITCH	SERVING LINE SOFFIT	'A' 45	140 VA
1	е	TOGGLE SWITCH	DINING PENDANTS	'A' 47	24 VA
	f	TOGGLE SWITCH	INTERIOR DINING	'A' 47	118 VA
I	g	TOGGLE SWITCH	BEVERAGE COUNTER	'A' 47	16 VA
	h	TOGGLE SWITCH	DAYLIGHT HARVESTING ZONE	'A' 47	219 VA
	i	SPARE			
	j	TIMER SWITCH	INTERIOR LIGHTING SHUT DOWN OVERRIDE	'A' 47	118 VA

NTS		С	TOGGLE SWITCH	WALK-INS, MENU, LED ACCENTS	'A' 1	275 V
		d	TOGGLE SWITCH	SERVING LINE SOFFIT	'A' 45	140 V
		е	TOGGLE SWITCH	DINING PENDANTS	'A' 47	24 V
V		f	TOGGLE SWITCH	INTERIOR DINING	'A' 47	118 V
		g	TOGGLE SWITCH	BEVERAGE COUNTER	'A' 47	16 V
OR		h	TOGGLE SWITCH	DAYLIGHT HARVESTING ZONE	'A' 47	219 V
NG		i	SPARE			
OWN IDE		j	TIMER SWITCH	INTERIOR LIGHTING SHUT DOWN OVERRIDE	'A' 47	118 V
	•					

INTERIOR / EXTERIOR LTG CONTACTORS SCHEDULE 4 NOT TO SCALE E-101



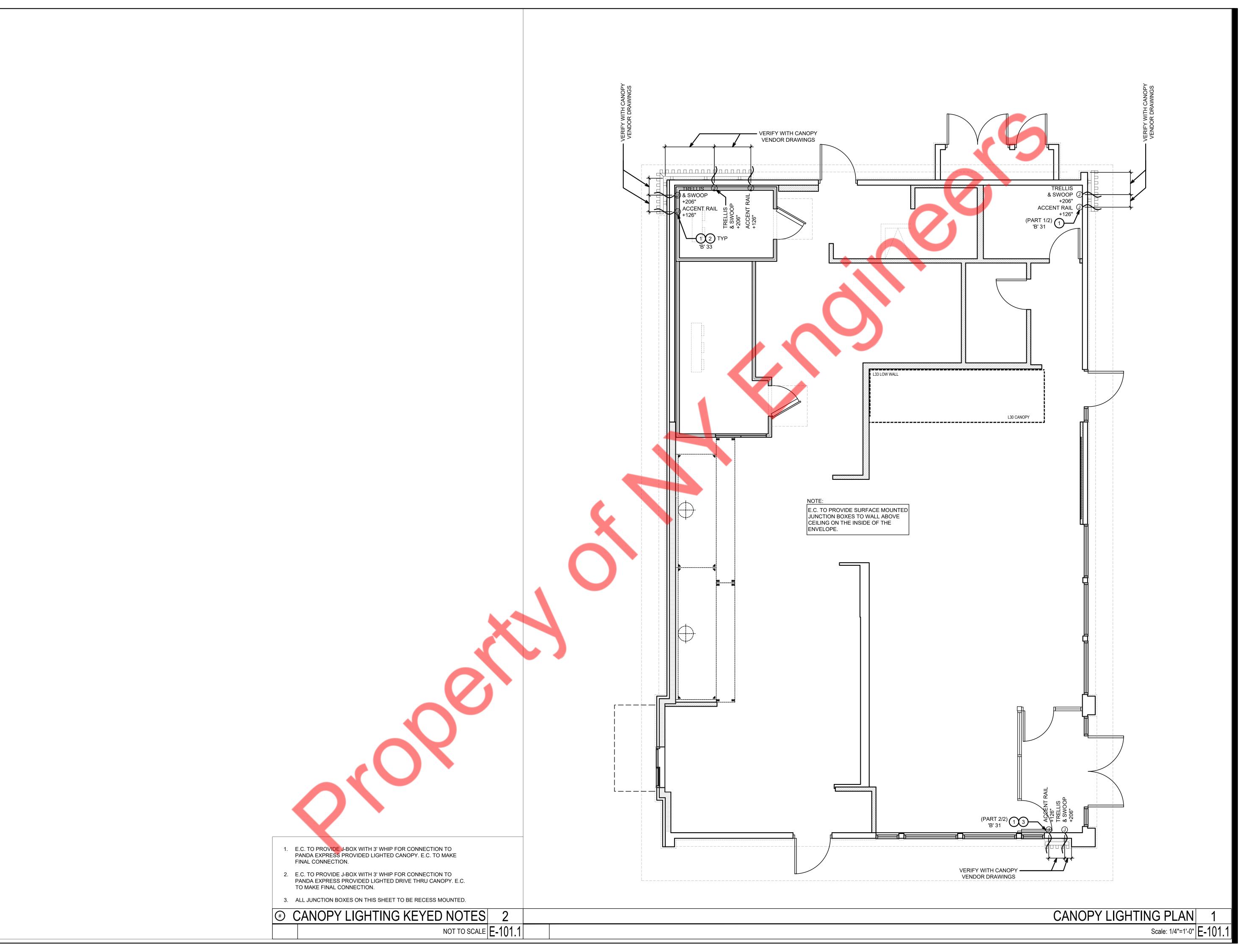
EMERGENCY LIGHT TO -BE INSTALLED JUST **BELOW CANOPY**



LIGHTING FLOOR PLAN

LIGHTING FLOOR PLAN

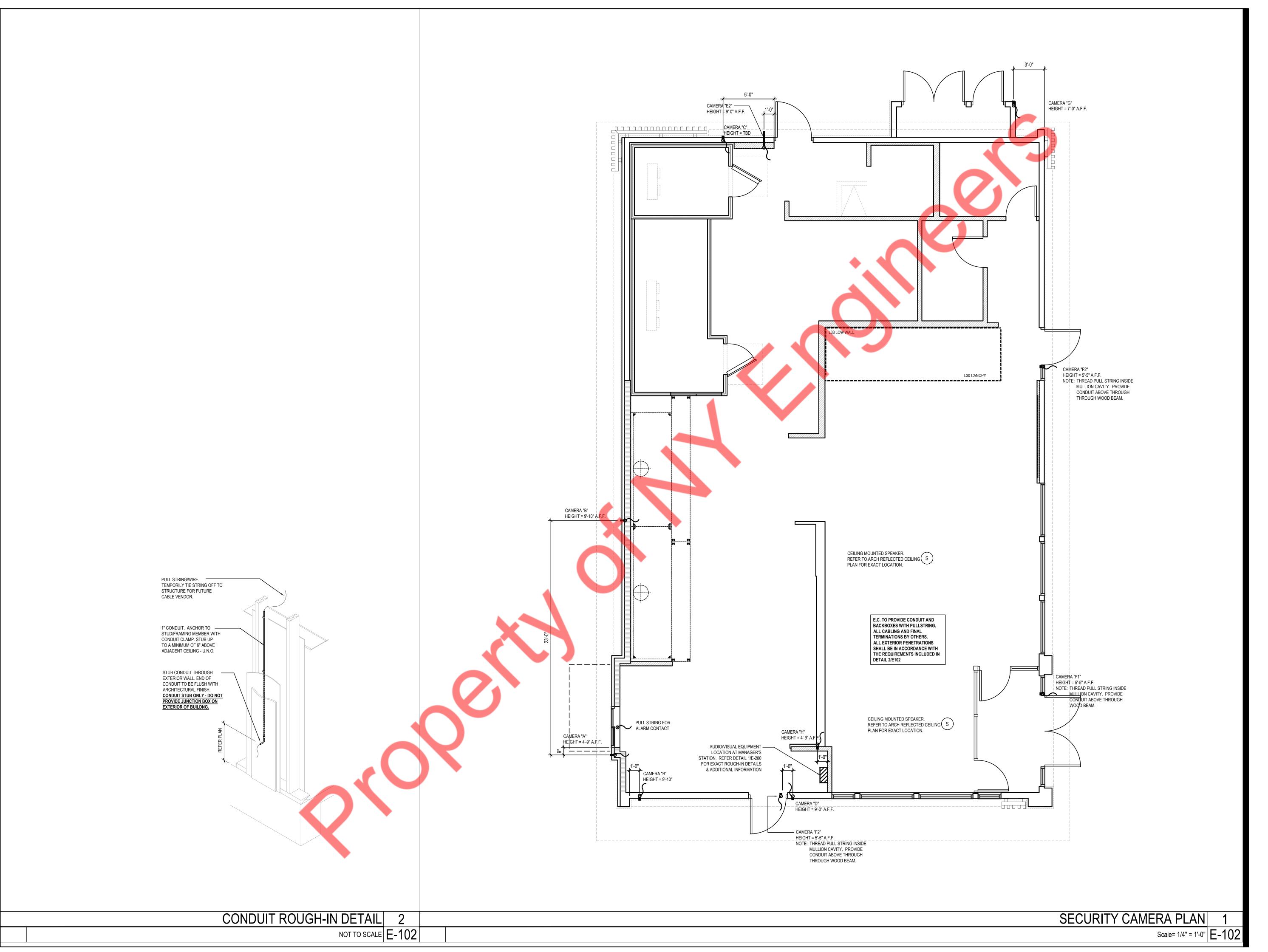
Scale: 1/4"=1'-0" **E-10**1





E-101.1

CANOPY LIGHTING PLAN





SECURITY CAMERA PLAN

- ALL ROOF MOUNTED EQUIPMENT SHALL BE IN NEMA-3R ENCLOSURES.
- ALL CONDUIT RUNS SHOWN ON THE ROOF SHALL BE RUN BELOW IN THE CEILING SPACE WHERE AMBIENT TEMPERATURE WILL BE BELOW 30° C. FINAL CONNECTIONS TO THE ROOF EQUIPMENT IS LIMITED TO 5'-0' OF DIRECT SOLAR EXPOSURE.
- VERIFY ALL FUSE SIZES AND TYPES WITH THE MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- REVIEW THE MECHANICAL PLANS FOR HVAC CONTROL REQUIREMENTS AND SCOPE OF WORK PRIOR TO BIDDING AND INCLUDE ALL COSTS IN BID.
- VERIFY CONNECTION POINTS OF ALL HVAC EQUIPMENT PRIOR TO INSTALLATION. PROVIDE CONTROL VOLTAGE CONNECTION TO DUCT MTD. SMOKE DETECTOR AS REQUIRED BY MECHANICAL DRAWING M-100 AND INTERLOCK WITH FIREALARM.
- SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND THERMOSTATS. PROVIDE RACEWAY SYSTEM FOR ALL CONTROL WIRING AS REQUIRED BY MECHANICAL DRAWING M-100.
- E.C. COORDINATE ELECTRICAL, MECHANICAL, FIRE ALARM (IF REQUIIRED) FOR INTERLOCK SEQUENCE FOR FIRE SUPPRESSION.
- RESTROOM EXHAUST FAN TO BE POWERED FROM BACK OF HOUSE LIGHTING CIRCUIT. SEE DETAIL 5/E400 FOR ADDITIONAL INFORMATION.

ROOF PLAN GENERAL NOTES 2

NOT TO SCALE E-104

- ROUTE HOMERUN THROUGH BACK OF HOUSE LIGHTING CIRCUIT. REFER TO LIGHTING CONTACTOR SCHEDULE, 4/E-101. FAN TO BE CONTROLLED BY SWITCH FOR BACK OF HOUSE LIGHTING.
- 2. DUCT SMOKE DETECTOR. FURNISHED BY MECHANICAL/FACTORY, WIRED BY ELECTRICAL / FIRE ALARM CONTRACTOR. FURNISH AND INSTALL ALL RACEWAY, WIRING, AND ADDITIONAL ACCESSORIES REQUIRED FOR CODE COMPLIANCE AND UNIT SHUTDOWN.
- B. CIRCUIT FEEDS FROM PANELBOARD THROUGH HOOD CONTROL PANEL - UP TO ROOF. REFER TO DETAIL, SHEET 3/E-401 & KITCHEN HOOD SUBMITTAL DATA.
- 4. REFER TO CONDENSING UNIT WIRING DIAGRAM, 7/E-400.
- 5. STRUT RACK SUPPORT FOR EQUIPMENT DISCONNECT SWITCHES. REFER TO DETAIL, SHEET 2/E-401.
- 6. PROVIDE OUTLET WITH RED DOT INUSE COVER AT PARAPET +24" ABOVE ROOF FOR HEAT TAPE. HEAT TAPE PROVIDED BY OTHERS.
- . DO NOT INSTALL UNTIL BACK DRAFT DAMPER INSTALLATION IS COMPLETE. UTILIZE FACTORY KNOCKOUTS FOR ELECTRICAL RUN FOR THIS FAN. REFER TO SHEET M-402.
- 8. MOUNT PHOTOCELL AS DETAILED ON EQUIPMENT DISCONNECT SWITCH SUPPORT DETAIL 12/E400 ON CONDENSER RACK.
- 9. STUB ELECTRICAL FEED FOR EF-1 & EF-2, THROUGH ROOF ON HINGE SIDE OF EXHAUST FANS, IN LOCATION AS SHOWN ON POWER ROOF PLAN. REFER TO DETAIL 3/M-501 FOR ADDITIONAL DETAILS.
- 10. ROUTE POWER FEEDS VIA FACTORY PROVIDED THRU-BASE CONNECTION AREA. COORDINATE WITH MECHANICAL.
- 11. UNIT INCLUDES FACTORY MOLDED CASE DISCONNECT SWITCH (NO OCP). VERIFY WITH MECHANICAL SUBMITTAL DATA. PROVIDE DISCONNECT IF / AS REQUIRED.

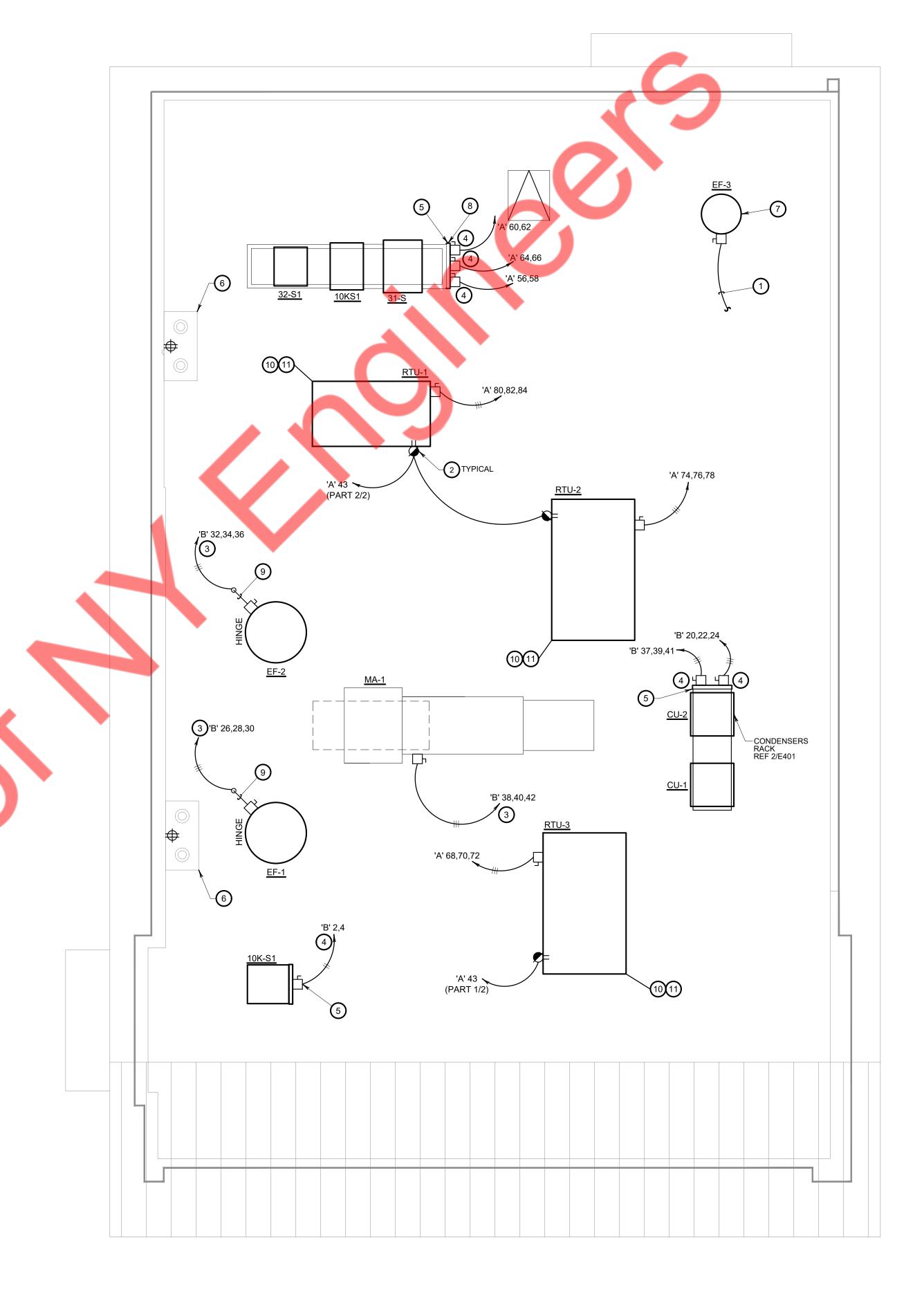
ROOF PLAN KEYED NOTES 3

HVAC EQUIPMENT SCHEDULE 4

NOT TO SCALE E-104

NOT TO SCALE E-104

	MECHANICAL EQUIPMENT SCHEDULE													
TAG	VOLTAGE	PHASE		LOAD		CONDUCTOR & CONDUIT	CONNECTION	DISC. SW. WITH RK1	REMARK					
	VOLIAGE	PHASE	KW	HP	FLA	CONDUCTOR & CONDUIT	CONNECTION	FUSES PER MFR'S REQ'S	NEIVIANN					
RTU-1	208	3	11.53	-	-	3#6 + 1#10G, 3/4"C	DISCONNECT SWITCH	45A,3P,3F,WP	1,2					
RTU-2	208	3	18.73	1	-	3#6 + 1#10G, 3/4"C	DISCONNECT SWITCH	60A,3P,3F,WP	1,2					
RTU-3	208	3	18.73	-	-	3#6 + 1#10G, 3/4"C	DISCONNECT SWITCH	60A,3P,3F,WP	1,2					
EF-1	208	3	2.24	3	-	3#12 + 1#12G, 3/4"C	DISCONNECT SWITCH	20A,3P,3F,WP	1,4					
EF-2	208	3	2.24	3	-	3#12 + 1#12G, 3/4"C	DISCONNECT SWITCH	20A,3P,3F,WP	1,4					
MA-1	208	3	5.6	7.5	-	3#12 + 1#12G, 3/4"C	DISCONNECT SWITCH	20A,3P,3F,WP	1,4					
CU-1	208-230	3	7.71	-	-	3#10, 1#10G, IN 3/4"C	DISCONNECT SWITCH	20A, <mark>3P,</mark> 3F,WP	1,4					
CU-2	208-230	3	7.71	-	-	3#10, 1#10G, IN 3/4"C	DISCONNECT SWITCH	20A,3P,3F,WP	1,4					
P3 WH-1	120	1	0.96	-	-	2#12, 1#12G, IN 3/4"C	COMBINATION DISCONNECT	20A,1P,1F	3					
P3 WH-2	120	1	0.96	-	-	2#12, 1#12G, IN 3/4"C	COMBINATION DISCONNECT	20A,1P,1F	3					
P3 WH-3	120	1	0.96	-	-	2#12, 1#12G, IN 3/4"C	COMBINATION DISCONNECT	20A,1P,1F	3					
31-S	208	1	3.12	1.5		2-8 + 1#10G, 3/4"C.	DISCONNECT SWITCH	35A,2P,1F,WP	1					
32-S1	208	1	2.08	1.5		2-8 + 1#10G, 3/4"C.	DISCONNECT SWITCH	40A,2 <mark>P,1</mark> F,WP	1					
10KS1	208/230	1	2.46			2-12 + 1#12G, 3/4"C.	DISCONNECT SWITCH	20A,2P,1F,WP	1					
CP-1	120	1	0.5	-	-	2#12, 1#12G, IN 3/4"C	DISCONNECT SWITCH	20A,1P,1F						
NOTE:-	E.C. TO CO	ORDINATE	WITH THE	MECHANI	CAL CONT	RACTOR FOR EXACT LOCAT	ION, POWER REQUIREMENTS A	AND CONTROLS. PROVIDE A	CCORDINGLY.					
1	DISCONNE	CT SWITCH	I PROVIDE	D WITH UN	NIT.			•						
2	ELECTRICA WATER TIG			OUTED FRO	OM PLENU	M SPACE, UP THROUGH EQ	UIPMENT CURB, INTO BOTTOM	OF EQUIPMENT,THROUGH	FACTORY INSTALLED					
3	ADJACENT	TO WH-1.	DO NOT IN	ISTALL BEL	OW WH-1									
4	SEE HOOD	DETAILS.												





E-104

ROOF POWER PLAN

ROOF POWER PLAN 1/4" = 1'-0" **E-104**

SITE	LIC	ЭНТІ	ING SCH	HEDULE											
SYMBOL	KEY	QTY.	FIXTURE MANUFACTURER	FIXTURE MODEL	FIXTURE DESCRIPTION	FIXTURE MOUNTING HEIGHT	LAMP	COLOR TEMP.	OPTICS	LUMENS	LLF	FIXTURE CATALOGUE NO.	POLE DESCRIPTION	POLE LENGTH	POLE CATALOGUE NO
M M	A	5	LITHONIA LIGHTING	RSX-SERIES SIZE 1	DOUBLE POLE MOUNTED LED AREA LIGHT	25'	109W LED	4000K	TYPE 5 WIDE	14,394	0.90	RSX1 LED P3 40K R5 MVOLT RPA DBLXD	ROUND STRAIGHT STEEL	22'	RSS 22 4-5E DM19AS DBLXI 3' EXPOSED CONCRETE FOOTING
¥	В	3		RSX-SERIES SIZE 1	SINGLE POLE MOUNTED LED AREA LIGHT	25'	109W LED	4000K	TYPE 4 WIDE	9,336	0.90	RSX1 LED P3 40K R4 MVOLT RPA HS DBLXD	ROUND STRAIGHT STEEL	24'-6"	RSS 24-6 4-5B DM19AS DBLXD
Ŋ	С	6		D-SERIES SIZE 1	SINGLE POLE MOUNTED LED AREA LIGHT	25'	133W LED	4000K	TYPE 4 WIDE	16,573	0.90	RSX1 LED P4 40K R4 MVOLT RPA DBLXD	ROUND STRAIGHT STEEL	22'	RSS 22 4-5B DM19AS DBLXD 3' EXPOSED CONCRETE FOOTING
	D	3		RSX-SERIES SIZE 1	WALL MOUNTED LED AREA LIGHT	25'	72W LED	4000K	TYPE 2 WIDE	9,880	0.90	RSX1 LED P2 40K R2 MVOLT WBA DBLXD	N/A	N/A	N/A
	E	4		RSX-SERIES SIZE 1	WALL MOUNTED LED AREA LIGHT	25'	109W LED	4000K	TYPE 4 WIDE	14,206	0.90	RSX1 LED P3 40K R4 MVOLT WBA DBLXD	N/A	N/A	N/A

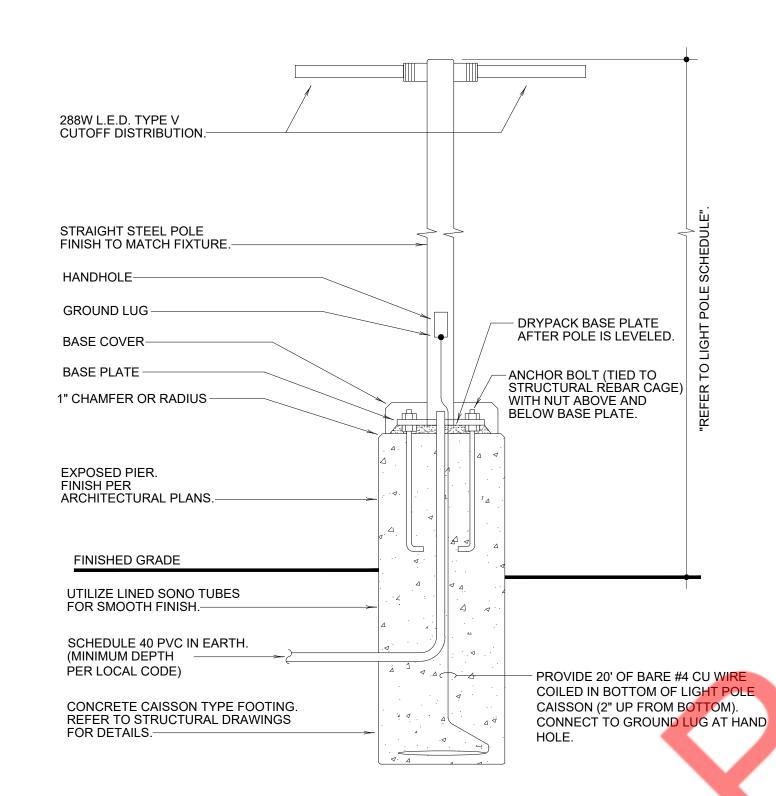
- COORDINATE SERVICE ENTRANCE SECTION, TRANSFORMER, PRIMARY SERVICE, SECONDARY SERVICE, AND SWITCHING CABINET OR POWER POLE LOCATIONS WITH SERVING UTILITY COMPANY AND COMPLY AS REQUIRED.
- CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING AND PROVIDING REQUIRED WORK FOR SUPPLYING ELECTRICAL POWER AND TELEPHONE UTILITIES TO THE BUILDING.
- CONTRACTOR SHALL HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED PRIOR TO TRENCHING. ALL UNDERGROUND UTILITIES DAMAGED DURING TRENCHING SHALL BE REPAIRED TO THE SATISFACTION OF INVOLVED UTILITY AT CONTRACTOR'S EXPENSE.
- MINIMUM CONDUCTOR SIZE THIS SHEET TO BE #10 CU, 1" CONDUIT.

SITE PLAN GENERAL NOTES 2

F₋₁₀₅

- 1. FEED THROUGH LIGHTING CONTACTOR. REF: 11/E400.
- 2. STUB UP LOCATION FOR (3) 3/4" CONDUITS & PULL STRINGS, TO ENTER BUILDING & UP TO 6" ABOVE CEILING. REFER TO SHEET 1/E401.
- 3. STUB-UP LOCATION FOR MENU BOARD. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR. COORDINATE PRECISE LOCATION WITH ARCHITECT / OWNER.
- 4. DRIVE-THRU SENSOR LOOP. COORDINATE LOCATION. REFER TO DETAIL 1 / E401.
- 5. STUB-UP FOR DRIVE-THRU ORDER CONFIRMATION MONITOR. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
- 6. STUB UP LOCATION FOR PYLON SIGN OR MONUMENT SIGN. ELECTRICAL CONTRACTOR TO PROVIDE NON-FUSED DISCONNECT AT BASE OF SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. CONNECT TO EXTERIOR BUILDING SIGN TIMER CONTROL. REFERENCE 11/E400.
- 7. SEE POLE MOUNTING DETAIL, REFER TO 4/E105.
- 8. CABLE PULL BOX; REFERENCE 1/E100. INSTALL MINIMUM 3' FROM SIDEWALK. DO NOT INSTALL IN SIDEWALK CONCRETE.
- 9. REF: 1/E400 FOR GROUNDING DETAIL.
- 10. E.C. TO COORDINATE EXACT LOCATION OF TRANSFORMER.

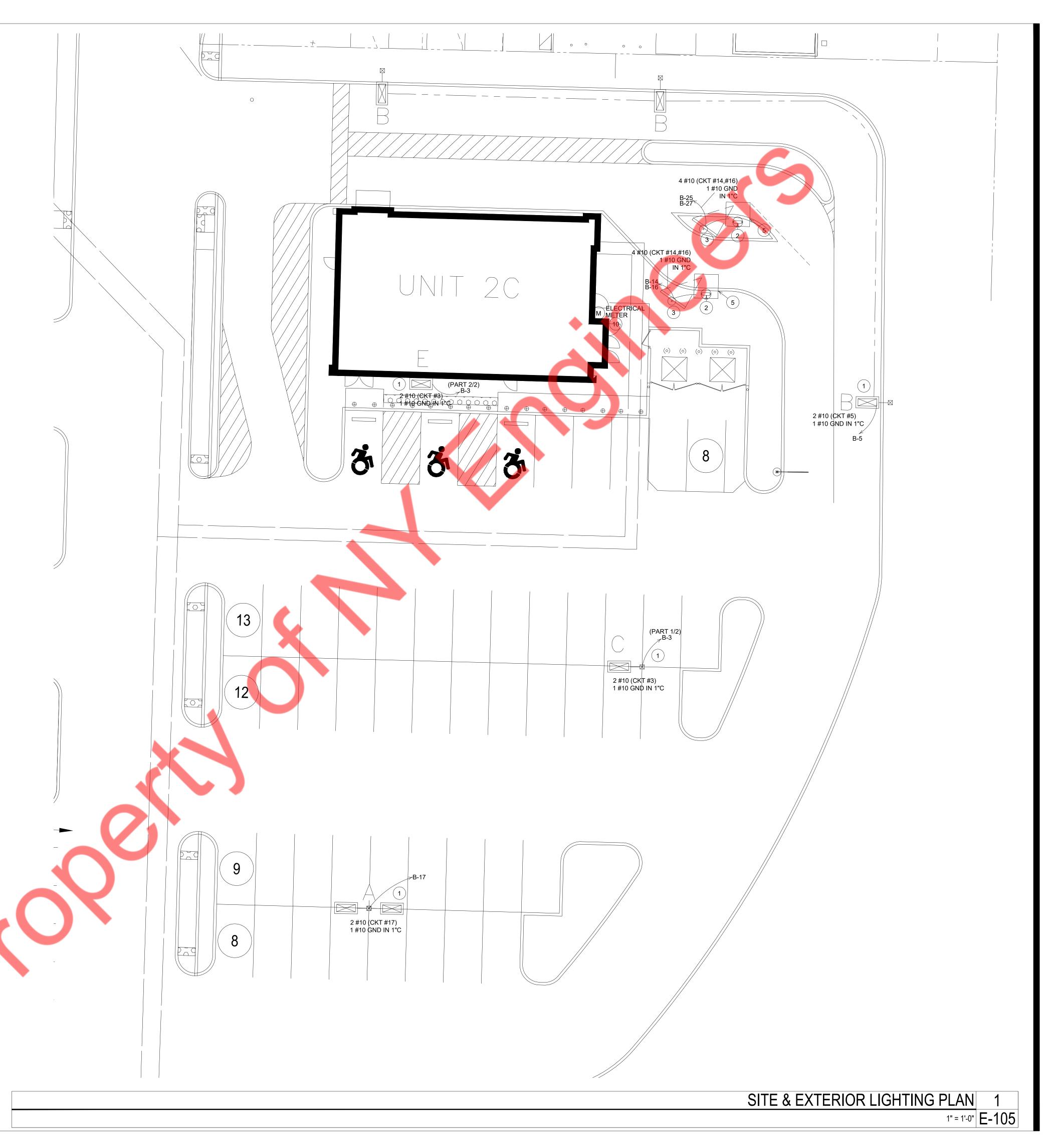
SITE PLAN KEYED NOTES 3



NOTE: THIS DETAIL IS FOR ELECTRICAL INSTALLATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

POLE MOUNTING DETAILS 4

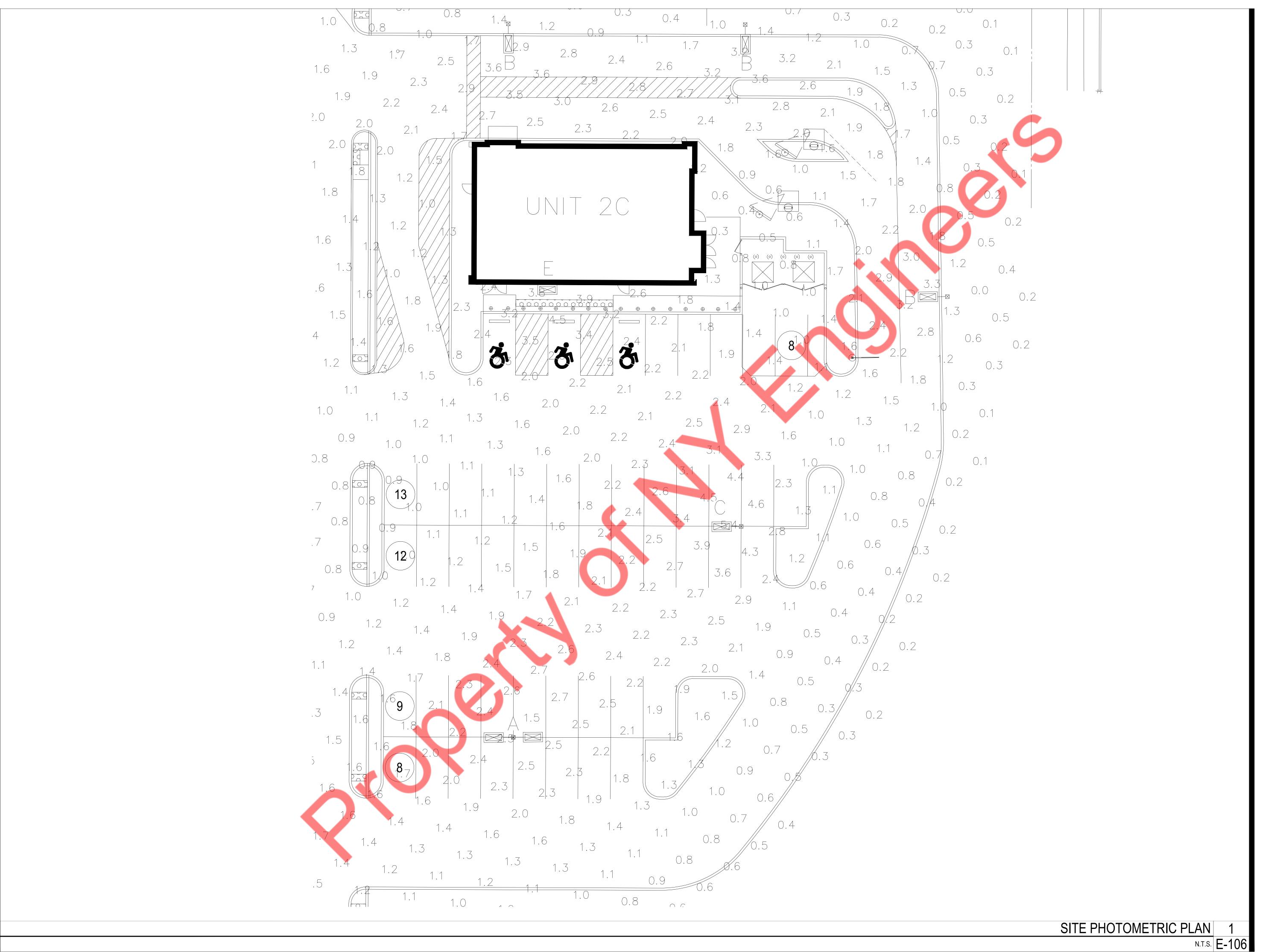
NO SCALE E-105





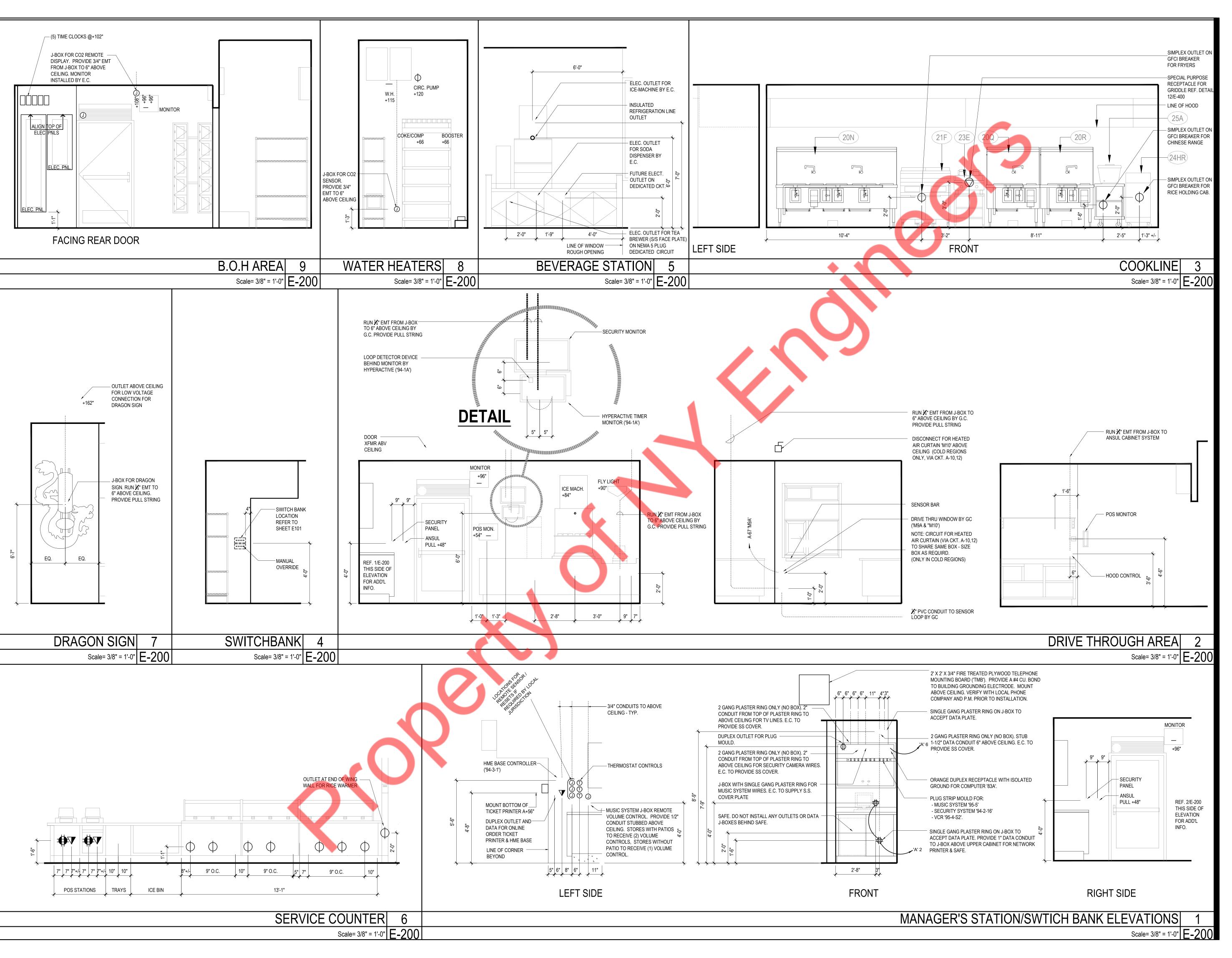
E-105

SITE & EXTERIOR LIGHTING PLAN



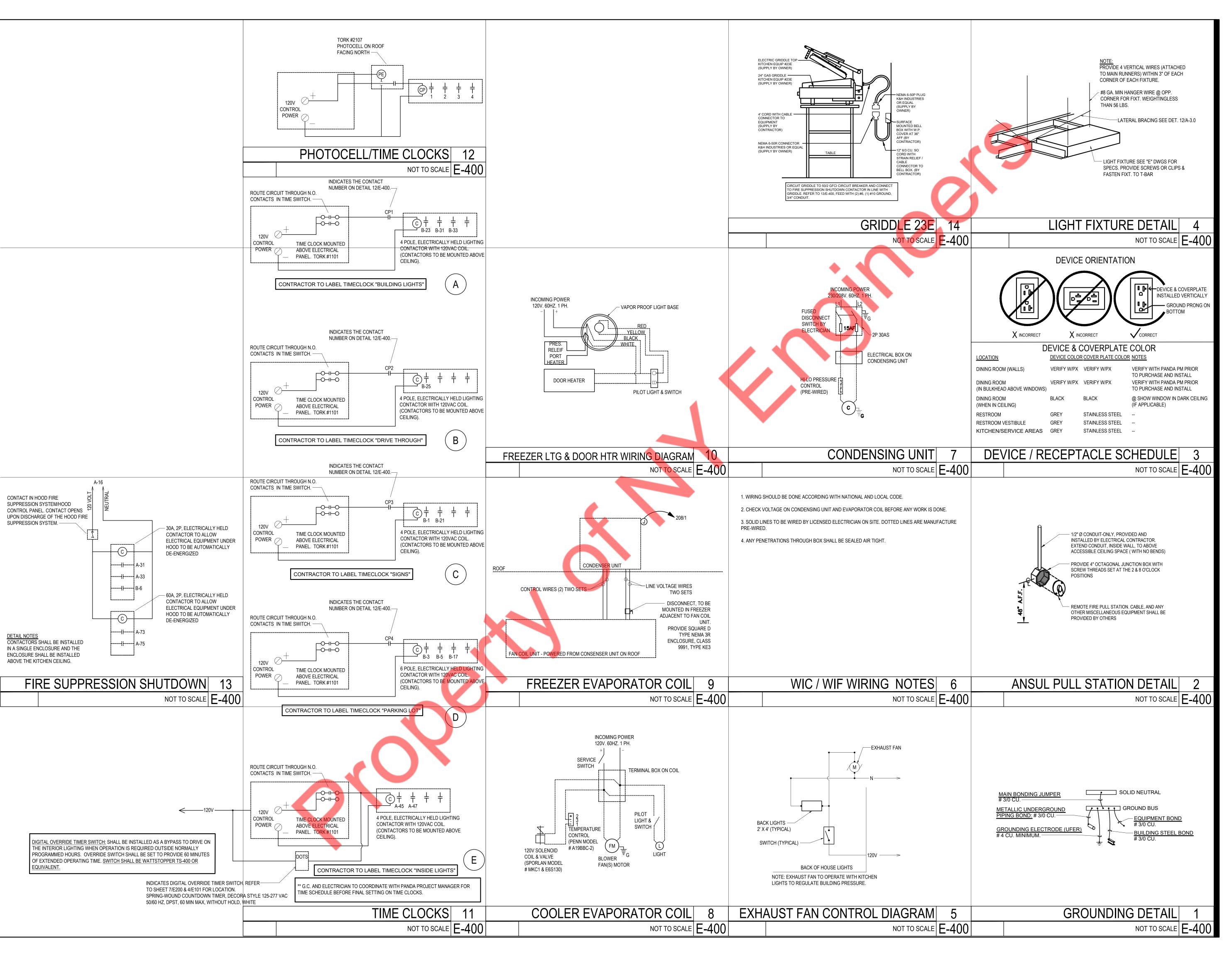


HOT - MEDIUM SITE PHOTOMETRIC PLAN



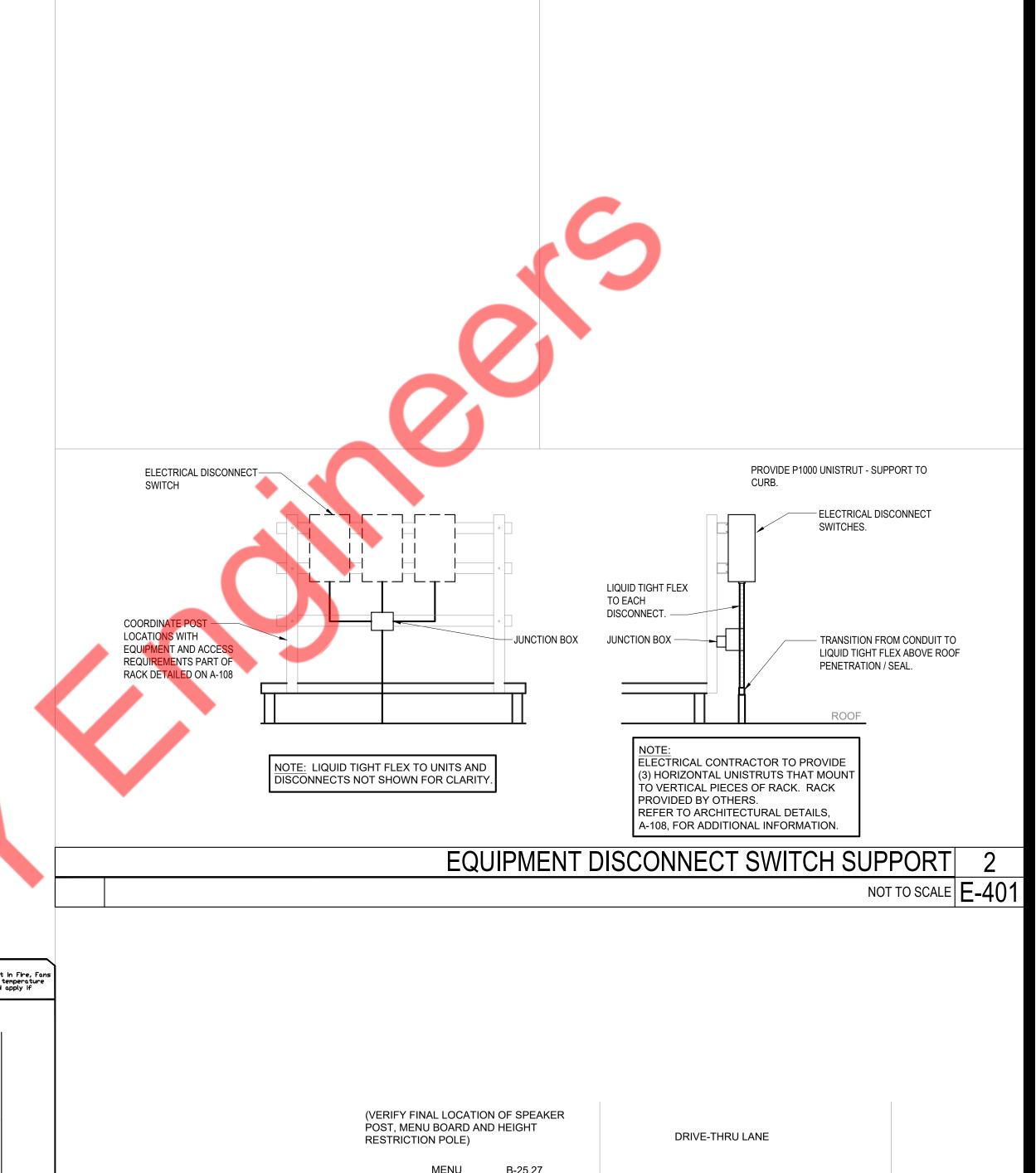


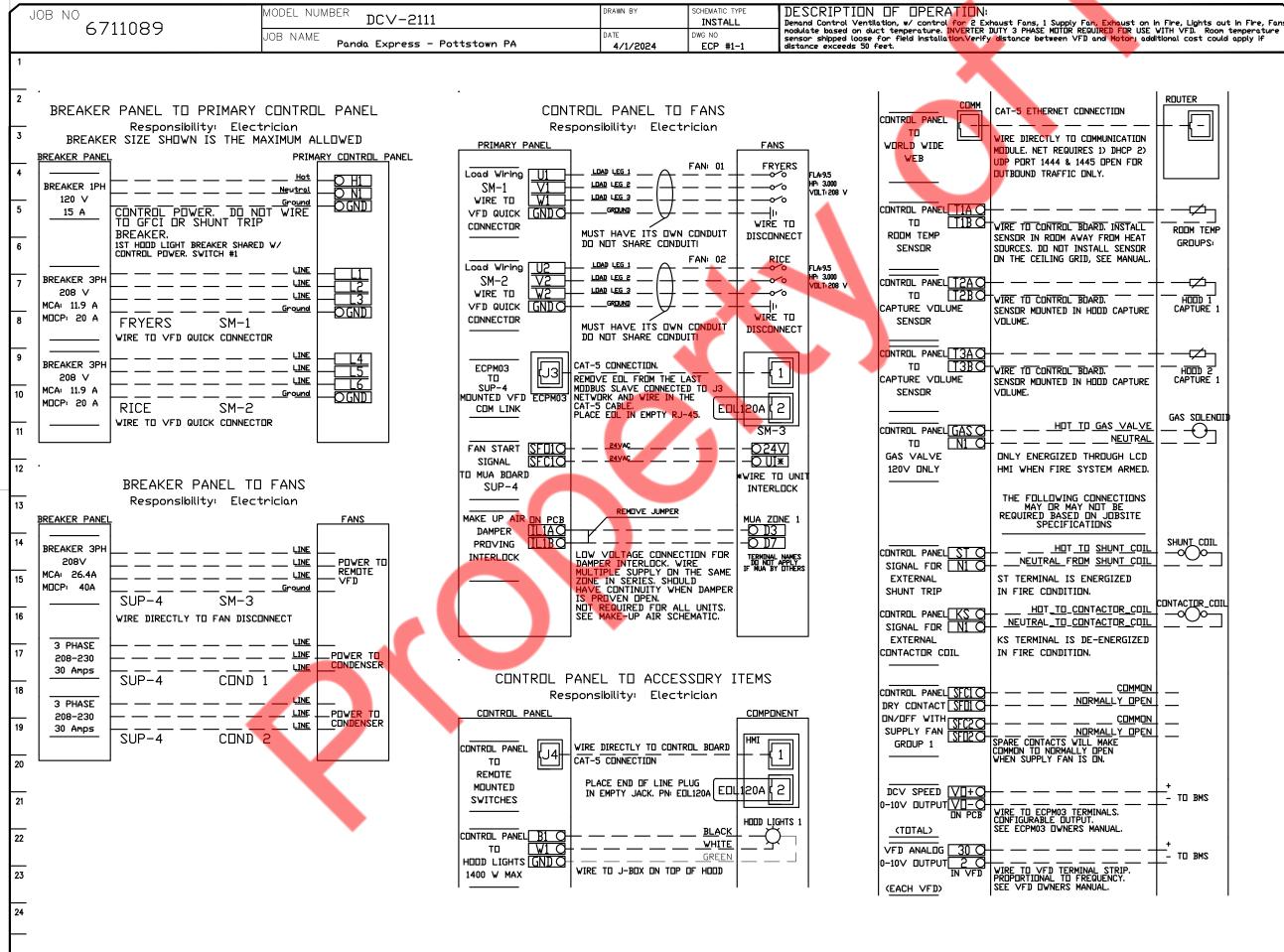
ELECTRICAL ELEVATIONS





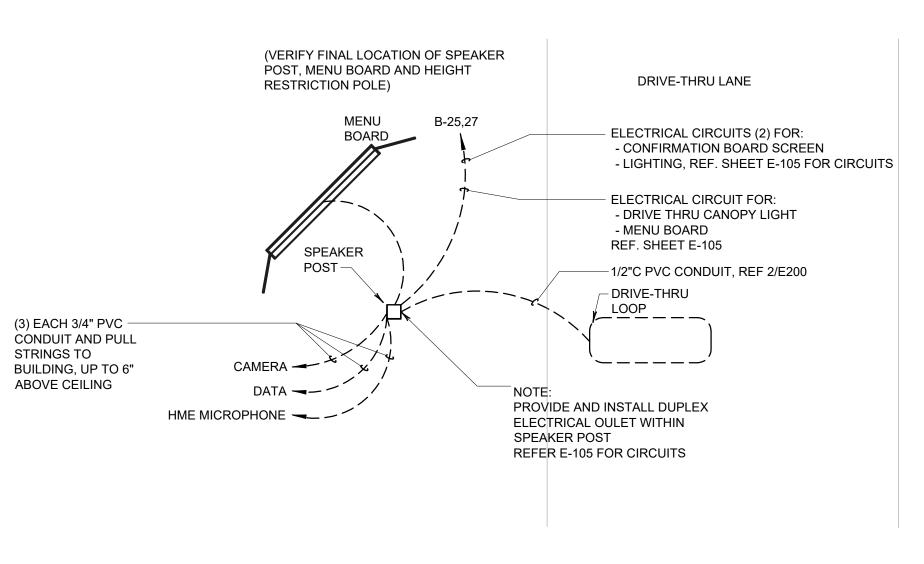
HOT - MEDIUM ELECTRICAL DETAILS, DIAGRAMS





KITCHEN EXHAUST SYSTEM DIAGRAM

NOT TO SCALE E-401



MENU BOARD & SENSOR LOOP

E-401

ELECTRICAL DETAILS, DIAGRAMS

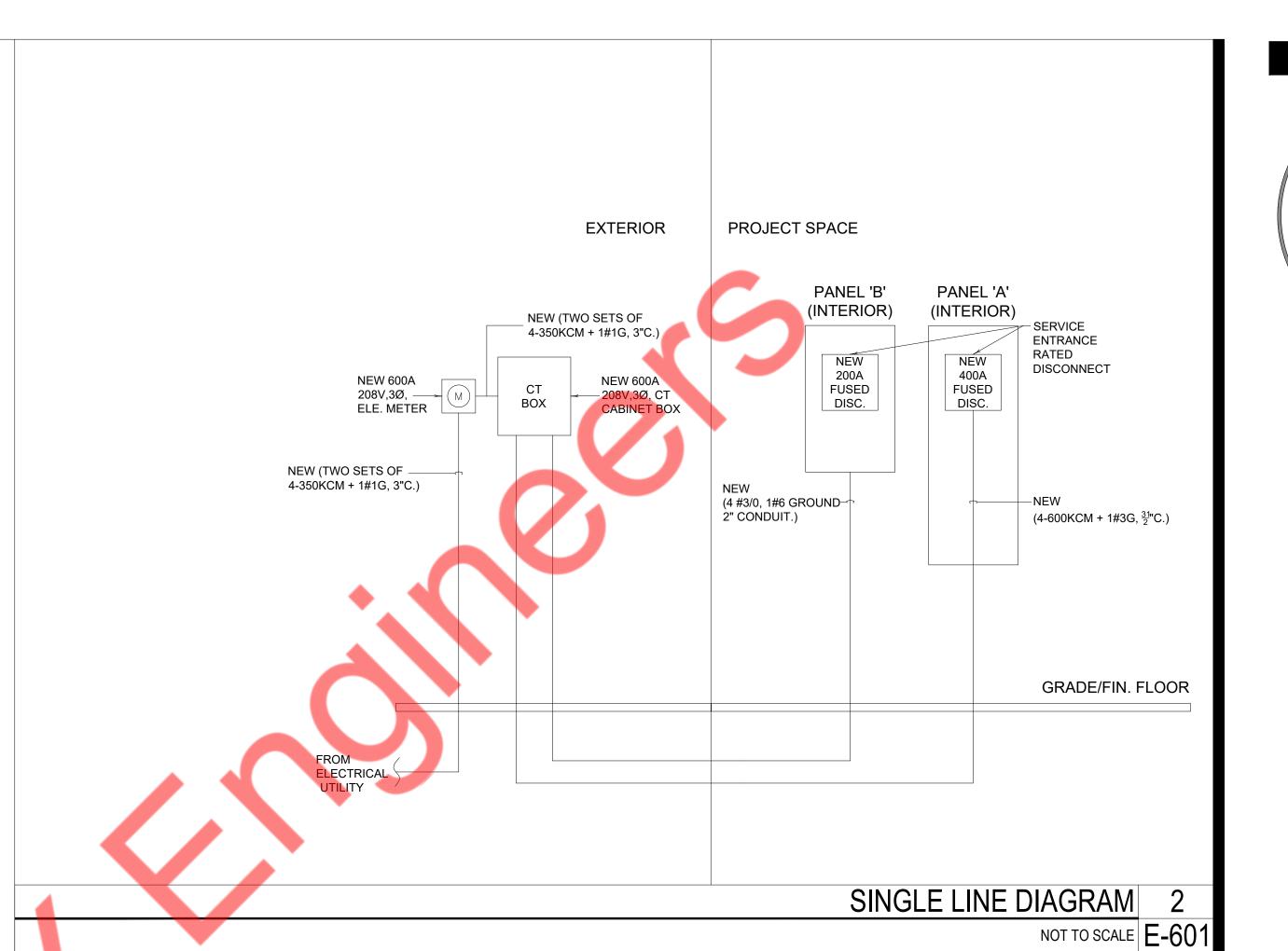
E-401

PANEL:	Α	(NEW)										MOUNTING	SURFACE	
08Y/120	VOLTS		3	PHASE	4	WIRE						PANEL LOCATION	I: BOH	
1CB	400A		BUS:	450A	MINIMUM							FED FROM	I: ELECTRICA	AL METER
OTE:												-		
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER F	PHASE (KVA)	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	S CKT NO
1	20	WIC DISPLAY LTS/MENUBRD/LED	L	0.33	2-12 + 1#12G, 3/4"C.	1.33			2-12 + 1#12G, 3/4"C.	1.00	0	FAX '87', MGR '84C', COMP '49A'	20	2
3		HOOD CONTL PNL 'M4'	F	0.50	2-12 + 1#12G, 3/4"C.	1.00	1.00		2-12 + 1#12G, 3/4"C.	0.50	0	MUSIC, VCR, MONITOR	20	4
5		SERVICE POS 94,PTR '86A'(2,6)	R	1.10	2-12 + 1#12G, 3/4"C.		2.00	2.20	2-12 + 1#12G, 3/4"C.	1.10	0	COMPUTER RECEP '83A' (2)	20	6
7		D.THRU POS'94'/PTRS'86A'(2,6)	R	1.10	2-12 + 1#12G, 3/4"C.	1.23			2-12 + 1#12G, 3/4"C.	0.13	E	10K ICE MACHINE (6)	20	8
9		95-4-S3, FLY LT,CO2(1,6)	0	0.82	2-12 + 1#12G, 3/4"C.	1.20	2.23			1.41	0	. ,		10
11		RICE WARMER '54A' (1,4)	F	0.11	2-12 + 1#12G, 3/4"C.		2.23	1.52	2-12 + 1#12G, 3/4"C.	1.41	0	CHF-25 'M10' AIR CURTAIN	20/2P	12
13		34A2LN- 84" REF. PREP. TABLE	F	1.04	2-12 + 1#12G, 3/4"C.	1.62			2-12 + 1#12G, 3/4"C.	0.59	Н	AIR CURTAIN 'M8D'	20	14
15		34D2N- 48" REF. PREP. TABLE	F	1.08	2-12 + 1#12G, 3/4"C.	1.02	1.18		2-12 + 1#12G, 3/4"C.	0.10	0	FIRE SUPRESS SHUTDOWN	20	16
17		30K2N- 60" WORKTOP FREEZER	E	0.61	2-12 + 1#12G, 3/4"C.		1.10	1.20	2-12 + 1#12G, 3/4"C.	0.59	0	AIR CURTAIN 'M8D'	20	18
19		BEVERAGE DISP.'4A'(1)	0	1.12	2-12 + 1#12G, 3/4"C.	2.42		1.20	2-10 + 1#10G, 3/4"C.	1.30	E	INDUCT WELL 3F, 3G (1,4,6)	20	20
21		SERVING COUNTER GEN. RCPT.	R	0.10	2-12 + 1#12G, 3/4"C.		1.40		2-10 + 1#10G, 3/4"C.	1.30	E	INDUCT WELL 3F, 3G (1,4,6)	20	22
23		ICE TEA BREWER '9D'	F	1.78	2-12 + 1#12G, 3/4"C.		1.40	3.08	2-10 + 1#10G, 3/4"C.	1.30	E	INDUCT WELL 3F, 3G (1,4,6)	20	24
25		FOOD PROCESSOR '53'	E	1.20	2-12 + 1#12G, 3/4"C.	2.50		3.00	2-10 + 1#10G, 3/4"C.	1.30	E	INDUCT WELL 3F, 3G (1,4,6)	20	26
27		ELEC. DOOR EQUIPMENT	0	0.72	2-12 + 1#12G, 3/4"C.	2.30	2.02		2-10 + 1#10G, 3/4"C.	1.30	E	INDUCT WELL 3F, 3G (1,4,6)	20	28
29		WALK IN COOLER COIL '31'(1)	Н	0.72	2-12 + 1#12G, 3/4 °C.		2.02	1.54	2-10 + 1#10G, 3/4 °C.	1.30	E	INDUCT WELL 3F, 3G (1,4,6)	20	30
31		RICE HOLD CAB '24H' (1,4,6)	F	1.78	2-10 + 1#10G, 3/4"C.	3.08		1.54	2-10 + 1#10G, 3/4"C.	1.30	E	INDUCT WELL 3F, 3G (1,4,6)	20	32
33		42" CHINESE RANGE '20R'	0	0.84	2-10 + 1#10G, 3/4 °C.	3.06	1.68		2-10 + 1#10G, 3/4 °C. 2-12 + 1#12G, 3/4 °C.	0.84	Н	RAD TOP HEATER '1S2B1' (1)	20	34
35		TIMECLOCK	ı	0.01	2-12 + 1#12G, 3/4 °C.		1.00	0.85	2-12 + 1#12G, 3/4 °C.	0.84	H	RAD TOP HEATER '1S2B1' (1)	20	36
37		4B' BOOSTER OUTLET (6)	R	0.86	2-12 + 1#12G, 3/4"C.	1.96		0.65	2-12 + 1#12G, 3/4 °C.	1.10	Н	RAD TOP HEATER '1S2B2' (1)	20	38
39		HEAT WRAP '32-S7 (4)	F	0.50	2-12 + 1#12G, 3/4 °C.	1.50	1.60		2-12 + 1#12G, 3/4 °C.	1.10	H	RAD TOP HEATER '6H' (1)	20	40
41		FLY LIGHT (6)	ı	0.30	2-12 + 1#12G, 3/4 °C.		1.00	1.70	2-12 1#120, 3/4 C.	1.52	E		20	42
43		SERVICE RECEPTACLES	R	0.18	2-12 + 1#12G, 3/4 °C.	2.06		1.70	2-12 + 1#12G, 3/4"C.	1.52	E	THAWING CABINET-'40T'	20/2P	44
45		LTG-FOOD PREP/EF3 (4)	ı	1.13	2-12 + 1#12G, 3/4 °C.	2.00	2.43		2-12 + 1#12G, 3/4"C.	1.30	E	INDUCT WELL 3F, 3G (1,4,6)	20	46
47		LTG DINING AREA	ı	0.25	2-12 + 1#12G, 3/4 °C.		2.43	1.65	2-12 1#120, 3/4 C.	1.40	E		20	48
49		SHOW WINDOW RECEP.	l L	0.23	2-12 + 1#12G, 3/4 °C.	2.30		1.05	2-12 + 1#12G, 3/4"C.	1.40	E	MICROWAVE - 55A (1,6)	20/2P	50
51		GENERAL RECEP.	R	0.72	2-12 + 1#12G, 3/4"C.	2.30	0.90		2-12 + 1#12G, 3/4"C.	0.18	-	FUTURE EQUIPMENT	20	52
53		EXTERIOR RECEP.	R	0.72	2-12 + 1#12G, 3/4 °C.		0.90	1.66	2-12 + 1#12G, 3/4 °C.	1.3	E	INDUCT WELL 3F, 3G (1,4,6)	20	54
55		GREASE REMOVAL	R	0.30	2-12 + 1#12G, 3/4 °C.	1.41		1.00	2-12 1π120, 5/4 C.	1.23	E			56
57		10K ICE MACHINE (6)	E	0.13	2-12 + 1#12G, 3/4"C.	1.41	1.36		2-12 + 1#12G, 3/4"C.	1.23	E	REMOTE COND. '10K-S1' (1)	20/2P	58
59		GAS WATER HEATER- P3, (6)	E	0.13	2-12 + 1#12G, 3/4 °C.		1.30	4.08		3.12	Н			60
61		ICE TEA BREWER '9D' (1,4)	E	1.78	2-12 + 1#12G, 3/4 °C.	4.90		4.00	2-8 + 1#10G, 3/4"C.	3.12	Н	WALKIN FREEZER COND. '32-S1' (1,7)	40/2P	62
63		LTG- RESTRMS	L I	0.07	2-10 + 1#10G, 3/4 °C. 2-12 + 1#12G, 3/4 °C.	4.30	3.71			3.64	H			64
65		TEA BUBBLER	E	1.02	2-12 + 1#12G, 3/4 °C.		3./1	4.66	2-8 + 1#10G, 3/4"C.	3.64	Н	WALKIN COOL COND. '31-S' (1)	35/2P	66
67			Н	2.08	2-12 / 1#12U, 3/4 C.	8.32		4.00		6.24	Н			68
69	30/2P	DT WINDOW 'M9A' AIR CURTAIN	Н	2.08	2#10 + 1#10G, 3/4"C	0.52	8.32		3-6 + 1#10G, 3/4"C.	6.24] RTU-3 (HVAC)	60/3P	70
71	20	INDUCT WELL 3F, 3G (1,4,6)	E	1.30	2-12 + 1#12G, 3/4"C.		0.32	7.54	3 0 1 In 100, 3/4 C.	6.24	Н		50/51	72
	20	INDUCT WELL SF, SG (1,4,0)	E		Z-12 + 1#120, 3/4 C.	8.04		7.54		 				
73	30/2P	ELECTRIC GRIDDLE -"23E" (1,6)	E	1.80	2#10 + 1#10G, 3/4"C	0.04	8.04		3-6 + 1#10G, 3/4"C.	6.24	H	RTU-2 (HVAC)	60/3P	74 76
75 77	20	D. TUDULDOS '041/DTDS '9541/2 S		1.80	2 12 1 14120 2/440		0.04	7.24	3-0 + 1#100, 3/4 C.	6.24		INTO-2 (HVAC)	00/38	
77		D. THRU POS '94'/PTRS '86A'(2,6)	0	1.10	2-12 + 1#12G, 3/4"C.	4.00		7.34		6.24	H			78
79		GAS WATER HEATER- P3, (6)	E	0.96	2-12 + 1#12G, 3/4"C.	4.80	4.00		2.6 . 44406. 2/440	3.84	H	DTU 4 (UN/AC)	45/25	80
81		GAS WATER HEATER- P3, (6)	E	0.96	2-12 + 1#12G, 3/4"C.		4.80	4.34	3-6 + 1#10G, 3/4"C.	3.84	H	RTU-1 (HVAC)	45/3P	82
83	20	CP-CIRCULATION PUMP	M	0.50	2-12 + 1#12G, 3/4"C.	-	40.67	4.34		3.84	Н			84

PANEL:	В	(NEW)										MOUNTING	G: SURFACE	
208Y/120	VOLTS		3	PHASE	4	WIRE						PANEL LOCATION	N: BOH	
MLO	200A		BUS:	225A	MINIMUM								1: ELECTRICAL	L METER
NOTE:			'	1		,							•	
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER A	PHASE (KVA)	MINIMUM BRANCH CIRCUIT	LOAD (KVA) LO	AD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NC
1	20	BUILDING SIGN / LOGO (3)	L	1.00	2-12 + 1#12G, 3/4"C.	2.23			2 10 - 1#100 2/4"0	1.23	E	DEMOTE COND. 110K S1L(4)	20/2P	2
3	20	EXTERIOR POLE MOUNT LTG (3,4)	L	0.59	2-10 + 1#10G, 3/4"C.		1.82		2-10 + 1#10G, 3/4"C.	1.23	E	REMOTE COND. '10K-S1' (4)	20/28	4
5	20	EXTERIOR POLE MOUNT LTG (3,4)	L	0.59	2-10 + 1#10G, 3/4"C.			0.77	2-12 + 1#12G, 3/4"C.	0.18	É	21F- FRYER POT UNIT (1,6)	20	6
7	20	TICKET PRINTER/ HME BASE	0	0.22	2-12 + 1#12G, 3/4"C.	6.58				6.36	E			8
9	20	BEV. DISPENSER 4A (1,4)	E	1.12	2-10 + 1#10G, 3/4"C.		7.48		3-4 + 1#8 <mark>G, 1</mark> "C.	6.36	Е	POT WASHER- '70D'	60/3P	10
11	20	SECURITY/ POS MONITORS	0	0.10	2-12 + 1#12G, 3/4"C.			6.46		6.36	Е			12
13	20	HYPERACTIVE TIMER SYS.	0	0.10	2-12 + 1#12G, 3/4"C.	1.60			2-10 + 1#10G, 3/4"C.	1.50	L	MENUBOARD (3,4)	20	14
15	20	SIGN DISPLAY	L	0.26	2-12 + 1#12G, 3/4"C.		1.26		2-10 + 1#10G, 3/4"C.	1.00	L	DR THRU ORDER SCREEN (4)	20	16
17	20	EXTERIOR POLE MOUNT LTG (3,4)	L	0.30	2-10 + 1#10G, 3/4"C.			0.30			М	CP- CIRCULATION PUMP	20	18
19	20	COKE CARBONATOR	E	0.20	2-12 + 1#12G, 3/4"C.	2.77				2.57	Н			20
21	20	MONUMENT SIGN (3,4)	L	0.50	2-10 + 1#10G, 3/4"C.		3.07		3-10 + 1#10G, 3/4"C.	2.57	Н	CU-2 (HVAC)	30/3P	22
23	20	BUILDING LTG/EM (3)	L	0.10	2-12 + 1#12G, 3/4"C.			2.67		2.57	Н			24
25	20	MENUBOARD (3,4)	L	1.50	2-10 + 1#10G, 3/4"C.	2.21				0.71	Н			26
27	20	DR THRU ORDER SCREEN (4)	L	1.00	2-10 + 1#10G, 3/4"C.		1.71		3-12 + 1#12G, 3/4"C.	0.71	Н	_EF-1 (HVAC)	20/3P	28
29	20	RTU CONVINIENCE OUTLETS	R	0.54	2-12 + 1#12G, 3/4"C.			1.25		0.71	Н			30
31	20	CANOPY LIGHTING (3)	L	0.13	2-12 + 1#12G, 3/4"C.	0.84	,			0.71	Н			32
33	20	CANOPY LIGHTING (3)	L	0.13	2-12 + 1#12G, 3/4"C.		0.84		3-12 + 1#12G, 3/4"C.	0.71	Н	_EF-2 (HVAC)	20/3P	34
35	20	EXTERIOR MOTION SECURITY LED	L		2-12 + 1#12G, 3/4"C.			0.71		0.71	Н			36
37]		Н	2.57		4.44				1.87	Н			38
39	30/3P	CU-1 (HVAC)	Н	2.57	3-10 + 1#10G, 3/4"C.		4.44		3-12 + 1#12G, 3/4"C.	1.87	Н	MA-1 (HVAC)	20/3P	40
41			Н	2.57				4.44		1.87	Н			42
						20.67	20.62	16.60						

PANEL SCHEDULES 1

NOT TO SCALE E-601



- UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
- CONTRACTOR TO SUBMIT SERVICE ENTRANCE GEAR SHOP DRAWINGS TO SERVING UTILITY COMPANY FOR APPROVAL.
- 3. ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW CU.
- 4. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.
- E.C. SHALL PROVIDE GROUNDING PER NEC ARTICLE 250, RE: 1/E400 FOR ADDITIONAL INFORMATION.

SINGLE LINE DIAGRAM GENERAL NOTES 3 NOT TO SCALE E-601

- 1. ENTIRE INSTALLATION TO COMPLY WITH N.E.C. 110.22 AND 240.86(B).
- 2. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.
- 3. A TWO TIER 65000/10000 AIC SERIES RATING SYSTEM IS SPECIFIED BETWEEN THE SES MAINS FUSES AND THE PANEL BRANCH CIRCUIT BREAKERS, NO SUBSTITUTIONS UNLESS A FULLY RATED SYSTEM IS PROVIDED.
- 4. MOTOR CONTRIBUTION TO THE FAULT CURRENT IS LESS THAN 1% OF THE INTERRUPTING RATING OF THE DOWNSTREAM CIRCUIT BREAKER(S).
- 5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABELS AT ALL COMPONENTS OF THE SERIES PROTECTED SYSTEM; AT PANEL 'A' STATING "CAUTION 65/10 SERIES COMBINATION SYSTEM RATED 21,572 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED", AT PANEL 'B' STATING "CAUTION 65/10 SERIES COMBINATION SYSTEM RATED 20,985 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED". IDENTIFIED REPLACEMENT COMPONENTS REQUIRED"
- 6. EQUIPMENT SUPPLIER TO PROVIDE CUT SHEETS OF ALL SERIES RATED COMPONENTS (I.E. FUSES, CIRCUIT BREAKERS) HI-LIGHTING EACH ITEM AND THE SPECIFIC LISTING/TESTING OF EACH ITEM'S SERIES RATING WITH THE OTHER.
- 7. POST THIS INFORMATION ON THE JOB-SITE WITH PERMIT FOR CITY ELECTRICAL INSPECTOR'S REVIEW/APPROVAL.

SERIES RATING NOTES 4
NOT TO SCALE E-601

E-601

PANELS, SINGLE LINE, LOAD CALC'S

GENERAL PLUMBING NOTES

- FOOD SERVICE EQUIPMENT: REFER TO OTHER PORTIONS OF PLANS AND SPECIFICATIONS FOR | 15. FURTHER INFORMATION ABOUT FOOD SERVICE ITEMS FURNISHED AND WORK PERFORMED BY OTHERS. VERIFY ROUGH-IN REQUIREMENTS WITH EQUIPMENT FURNISHED.
- HEALTH DEPARTMENT: COMPLY WITH LOCAL HEALTH DEPARTMENT (HD) REGULATIONS.WHEREVER POSSIBLE, INSTALL ALL PIPING CONCEALED. CONFORM TO HD REQUIREMENTS FOR LOCATIONS OF
- WORKMANSHIP SHALL BE FIRST CLASS, ACCEPTABLE TO OWNER.
- MAKE COMPLETE: PROVIDE ITEMS AND WORK AS REQUIRED TO COMPLETE THE INSTALLATION OF PLUMBING SYSTEMS TO FIXTURES AND EQUIPMENT: TRAPS, STRAINERS, GAUGES, GAS AND WATER PRESSURE REGULATORS, FLEXIBLE CONNECTIONS, STOP VALVES, UNIONS, ETC. PROVIDE AND 17 CONNECT PLUMBING PIPE FROM ROUGH-INS TO ITEMS AS SHOWN, SPECIFIED AND REQUIRED.
- VERIFY LOCATIONS: EXISTING PIPING, POC SHOWN ON DRAWINGS HAS BEEN LOCATED FROM INFORMATION PROVIDED BY OTHERS. VERIFY EXACT LOCATION ON JOB SITE BEFORE START WORKING. BACKFLOW PREVENTION: PROVIDE BACKFLOW PREVENTERS (BFP) IN WATER LINES ONLY IF REQUIRED BY LOCAL AUTHORITIES. USE DEVICES OF TYPE (VACUUM BREAKER, DOUBLE CHECK, REDUCED
- PRESSURE) AND MANUFACTURER APPROVED BY LOCAL AUTHORITIES, ONLY IN LOCATIONS REQUIRED. RESTROOM TRAP PRIMERS: SOUIX CHIEF "TRAP EASE" MODEL 200-090 TRAP PRIMER TAILPIECE. PROVIDE A 1 CONTINUOUS LENGTH OF 2 " SOFT COPPER TUBE FROM PRIMER TO TRAP, SLOPING TO | 18. TEST WATER, GAS, VENT, AND WASTE SYSTEMS PER LOCAL CODE REQUIREMENTS. WHEN TRAP. PROVIDE ELASTOMERIC INSULATION ON PIPE INSTALLED BELOW FLOOR SLAB. SEE DETAIL #9 ON
- WATER CONSERVATION: CONTRACTOR SHALL PROVIDE WATER FLOW LIMITING FEATURES ON FIXTURES | IF/AS REQUIRED BY LOCAL AUTHORITIES.
- COLD WATER: CONNECT TO DOMESTIC COLD WATER VALVED STUB. EXTEND COLD WATER PIPE, | 20. ALL SAW CUT AND PATCH BACK OF FLOOR TO MATCH EXISTING FINISHES. BACKFILL PER SUSPENDED FROM STRUCTURE ABOVE CEILING AND DOWN IN PARTITIONS, TO SERVE FIXTURES AND
- HOT WATER: PROVIDE COMMERCIAL TYPE WATER HEATER, DESIGN PER PLAN. RUN HOT WATER PIPE, SUSPENDED FROM STRUCTURE ABOVE CEILING AND DOWN IN PARTITIONS TO SERVE FIXTURE AND EQUIPMENT
- SANITARY: CONNECT TO SANITARY WASTE LINE. BRANCHES: PROVIDE HOT AND/OR COLD WATER PIPES DOWN IN PARTITION TO SERVE VARIOUS

NOTED OTHERWISE.

- **EQUIPMENT PER "KITCHEN EQUIPMENT SCHEDULE"** SODA CONDUIT: PROVIDE 6" CONDUIT BELOW FLOOR FROM SODA STORAGE TO SODA DISPENSER.
- CONDENSATE: PROVIDE 1" INSULATED PRIMARY AND SECONDARY CONDENSATE DRAIN PIPES FROM FAN-COIL UNIT ABOVE CEILING TO NEAREST FLOOR SINK. GAS SERVICE: PROVIDE ALL PIPES, VALVES AND CONNECTION TO GAS METER. FOR NATURAL GAS
- SERVICE, COORDINATE WITH GAS UTILITY COMPANY FOR METER REQUIREMENTS, PERMITS AND FEES. ROUTE PIPE AS REQUIRED, SUSPENDED FROM STRUCTURE ABOVE. USE WELDED PIPE, FITTINGS, AND JOINTS IN CEILING SPACE AND IN WALL AS REQUIRED BY LOCAL CODE INDIRECT DRAIN: AN AIR GAP TWICE THE SIZE OF THE DRAIN LINE MUST BE PROVIDED BETWEEN THI
- DRAIN LINE AND THE SANITARY SEWER. LIQUID WASTE FROM ALL EQUIPMENT MUST BE DISCHARGED TO THE SANITARY SEWER.
- FLOOR DRAIN MUST BE PLACED ADJACENT TO EQUIPMENT WHICH DISCHARGES WASTE. FLOOR DRAIN INSTALLATION MUST NOT INTERFERE WITH PROPER FLOOR MAINTENANCE. EXPOSED UTILITY LINES ON FLOORS ARE PROHIBITED. UTILITY LINES MUST NOT BE UNNECESSARILY
- EXPOSED ON WALLS. ALL WATER AND GAS CONNECTIONS TO ALL PLUMBING FIXTURES TO BE HARD PIPED. NO FLEX PIPE.
- ALL PIPES 6" A.F.F. NO FLOOR SUPPORTS ALLOWED. ALL WATER PIPES IN EXPOSED AREAS OUTSIDE WALLS AND BELOW CEILING MUST BE COPPER UNLESS

PLUMBING SPECIFICATIONS

- WORK INCLUDES CONNECTION OF PLUMBING UTILITIES TO DEVELOPER OR LANDLORD'S UTILITIES AND INSTALLATION OF A COMPLETE PLUMBING SYSTEM WITHIN SPACE. PROVIDE NEW MATERIALS, FITTINGS, ACCESSORIES, FIXTURES AND EQUIPMENT NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING SYSTEM AS SHOWN ON PLANS AND AS REQUIRED. WORK INCLUDES FINAL CONNECTIONS TO EQUIPMENT AND FIXTURES PROVIDED BY OTHERS. FURNISH ALL NEW MATERIALS. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN, AND THEIR WORKMANSHIP SHALL BE HIGH STANDARD, ACCEPTABLE TO OWNER.
- CODES: ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS, OR ORDINANCES. PAY FOR ANY PERMITS REQUIRED, AND CALL FOR ANY REQUIRED INSPECTIONS TO BE MADE BY LOCAL AUTHORITIES.
- INTENT OF DRAWINGS IS TO INDICATE GENERAL EXTENT OF WORK REQUIRED FOR PROJECT. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING GENERAL LOCATION, TYPE, PIPING, FIXTURES AND EQUIPMENT REQUIRED. PROVIDE ALL FITTINGS. ACCESSORIES. OFFSETS. AND MATERIALS NECESSARY TO FULFILL INTENT OF PLANS. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. USE DIMENSIONED ARCHITECTURAL DRAWINGS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURES, AND TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
- FSE ROUGH-IN DRAWINGS: REFER TO ROUGH-IN DRAWINGS FURNISHED BY THE FOOD SERVICE EQUIPMENT SUPPLIER. FOR EXACT LOCATION OF WATER PIPING SUPPLIES AND DRAIN LOCATIONS TO SERVE FOOD SERVICE EQUIPMENT. DO NOT LAYOUT WORK OF THIS SECTION WITHOUT SUCH
- COORDINATE WITH WORK OF OTHER SECTIONS AND TRADES, WITH EQUIPMENT FURNISHED BY OTHERS, AND WITH CONSTRAINTS OF EXISTING CONDITIONS OF PROJECT SITE. MISCELLANEOUS EXPENSES SUCH AS HOOK-UP CHARGES, PERMITS, INSPECTIONS, AND OTHER
- EXPENSES RELATED TO A COMPLETE AND FUNCTIONING SYSTEM ARE INCLUDED AS PART OF THIS PIPING SYSTEMS, GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION
- CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION. SEAL PIPE PENETRATIONS OF FIRE FLOORS AND FIREWALLS WITH FIREPROOF PUTTY OR GROUT. PROVIDE SUMNER OR EQUIVALENT PIPE HANGING SYSTEM IN CHASES. PROVIDE HANGERS AS RECOMMENDED BY HANGER MANUFACTURER AND MSS-SP-58, 69 AND 89. WASTE PIPING: PROVIDE ALL DRAIN, WASTE AND SEWER PIPING WITHIN PROJECT SPACE WITH
- CONNECTION TO SANITARY WASTE SYSTEM ON SITE. PROVIDE A COMPLETE SYSTEM OF WASTE PIPING, CONSISTING OF SCH 40 PVC PIPE, CONNECTORS AND FITTINGS ALL PIPING SHALL BE SLOPED UNIFORMLY AT 2% UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS. 8.1. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED
- NOT MORE THAN 100 FT APART. 8.2. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1)
- CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH VENTS: PROVIDE A COMPLETE SYSTEM OF VENT PIPING, CONSISTING OF SCH 40 PVC PIPE, CONNECTORS AND FITTINGS. COMBINE THE VENT RISERS IN THE CEILING SPACE. CONNECT TO VENT
- WATER PIPING: CONNECT TO EXISTING WATER PIPING AND PROVIDE A NEW DOMESTIC HOT AND COLD WATER PIPING SYSTEM INSIDE THE BUILDING AS SHOWN ON DRAWINGS. LAY OUT WATER PIPING SO THAT ENTIRE SYSTEM CAN BE DRAINED. HOT AND COLD WATER PIPING SHALL BE ZURN PEX (ASTM F876; CSA B137.5, ASTM F877, SDR 9 TUBING) WITH ZURN PEX PRE-ASSEMBLED MANIFOLDS. FITTINGS AND JOINTS FOR PEX-A TUBE: ASTM F1960 COMPATIBLE COLD EXPANSION FITTINGS, MATCHING PEX NOTES TUBE DIMENSIONS. USE BLUE COLOR PEX FOR COLD WATER AND RED COLOR PEX FOR HOT WATER. PEX PIPING SHALL BE CONTINUOUS FROM MANIFOLD CONNECTION TO COPPER STUB-OUT AT EACH FIXTURE. PEX PIPING SHALL NOT BE SPLICED WITHIN WALLS. FLUSH WATER PIPING CLEAR OF DEBRIS

AND CLEAN AERATORS AND STRAINERS AT TERMINATION OF INSTALLATION.

- NATURAL GAS PIPING INSIDE AND OUTSIDE THE BUILDING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL ASTM A-33 PIPE WITH 125 LB MALLEABLE IRON SCREWED FITTINGS WHERE EXPOSED PRIMER AND PAINT EXTERIOR GAS PIPING YELLOW TO PREVENT RUST. PROVIDE ALL UNIONS, SHUT OFF VALVES AND DRIP LEGS REQUIRED BY NFPA-54 AND GOVERNING CODES. PROVIDE ALL TESTS, INSPECTIONS, HANGERS AND APPURTENANCES REQUIRED FOR A COMPLETE OPERATING SYSTEM. TAP ON UTILITY GAS MAIN AND GAS METER SHALL BE BY GAS COMPANY. EXTEND PIPING FROM METER TO EQUIPMENT AS DETAILED ON DRAWINGS. PROVIDE ROUTING, HANGING, AND PENETRATIONS PER
- OWNER'S REQUIREMENTS. 1 PIPE INSULATION: INSULATE ALL COLD WATER AND CONDENSATE PIPING WITH 2 ", AND HOT WATER PIPING WITH 1", PREFORMED FIBERGLASS WITH ALL-SERVICE JACKET WITH VAPOR BARRIER (BY CT, OC, JM, PPG, OR KNAUF). AT CONTRACTOR'S OPTION, PLENUM-RATED ELASTOMERIC INSULATION (BY ARMSTRONG, RUBATEX OR EQUAL) MAY BE USED.

FIXTURES.

- 13.1. IDENTIFY ALL PIPING WITH ANSI/ASME A13.1 2007 APPROVED PIPE MARKER SYSTEM USING EZ ARROWS AND ARROW BANDING TAPE IN CONJUNCTION WITH EZ PIPE MARKERS. PRODUCTS AVAILABLE AT PIPEMARKER.COM. 822-274-6271. INSTALL PER MANUFACTURERS INSTRUCTIONS. 13.2. IDENTIFY ALL MANIFOLDS AND ALL VALVES ON THE MANIFOLDS FOR CORRESPONDING
- SHUT-OFF VALVES WITH UNIONS SHALL BE PROVIDED AT BRANCHES TO GROUPS OF MORE THAN TWO FIXTURES, AND AT THE WATER HEATER, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. USE CHROME-FINISHED FORGED BRONZE BODY BALL VALVE. WITH TEFLON SEATS AND PACKING. 400 LB WOG, WITH SOLDER ENDS, EQUAL TO JENKINS #902-T. GAS VALVES SHALL BE ALL BRONZE LUBRICATED PLUG COCKS FOR SCREWED PIPE, BY WALWORTH, ROCKWELL, NORDSTROM OR APPROVED EQUIVALENT.

- ACCESS PANELS SHALL BE PROVIDED IN CEILINGS OR WALLS WHERE CONCEALED CONTROL DEVICES ARE LOCATED, EXCEPT WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN CEILINGS.
- 16. SUPPLIES AND TRAPS: PROVIDE WATER SEALED TRAPS AND SUPPLIES INSTALLED AS CLOSE AS POSSIBLE TO ALL PLUMBING FIXTURES, DRAINS, AND FOOD SERVICE EQUIPMENT OR BEVERAGE DISPENSING EQUIPMENT ITEMS FURNISHED BY OTHERS, HAVING A WASTE CONNECTION, OR REQUIRING WATER SERVICE. EXPOSED TRAPS AND SUPPLIES IN EXPOSED AREAS (INCLUDING CABINET INTERIORS) SHALL BE CHROME PLATED BRASS.
- INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS O EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE, PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES, PER MANUFACTURER'S ROUGH-IN DIMENSIONS. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT. REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AND RESTORE TO ORIGINAL CONDITIONS. PROVIDE CLEAN
- CONDITIONS AT TERMINATION OF WORK. TESTING INDICATES MATERIALS OR WORKMANSHIP ARE DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST TILL STANDARDS ARE ACHIEVED.
- ACCEPTANCE BY THE OWNER. DEVELOPER OR OWNER' SOILS ENGINEER'S RECOMMENDATIONS

GUARANTEE THE WORK AND THE INSTALLATION FOR ONE YEAR AFTER FORMAL

• PLUMBING KEY NOTES

- 2 " G DOWN TO WATER HEATER W/ SOV (SHUT OFF VALVE).
- (2) 3/4" G DOWN TO RICE COOKER W/ SOV. PROVIDE 6" LENGTH OF RIGID PIPE BETWEEN RICE COOKER AND FLEXIBLE GAS LINE.
- CW SHUT OFF BALL VALVE LOCATED WITHIN WALL. REFER ARCH INTERIOR ELEVATIONS FOR HEIGHT. PROVIDE ACCESS PANEL.
- 1-1/2"G DOWN TO DEEP FRYER W/ SOV.
- 1-1/2"G DOWN TO CHINESE RANGE "20N" W/ SOV. LOCATE STUB OUT BEHIND THE END OF RANGE FOR EASY ACCESS.
- 1-1/4"G DOWN TO CHINESE RANGE "20Q" OR "20R" W/ SOV.
- EXHAUST & INTAKE VENTS UP TO ROOF. COORDINATE WITH MECHANICAL DRAWINGS AND DETAIL #10 ON SHEET P-500.
- ROUTE NEW PIPING IN WALL.
- GAS ANSUL VALVE PROVIDED BY OWNER (G.C. CALL CAPITIVEAIRE FOR DELIVERY) INSTALL GAS ANSUL VALVE ABOVE CEILING AS ALLOWED BY LOCAL CODE IN LOCATION PER PLAN P100.
- 10. 1/2" WATER PIPE UP IN CURB. VALVE AND CAP.
- . 1" G UP TO ROOF W/ SOV. FOR ROOFTOP UNIT 1.
- 12. 1/2" CW TO TRAP PRIMER. PROVIDE WALL ACCESS PANEL. RUN 1/2" CW BELOW FLOOR TO FLOOR DRAIN, SEE DETAIL #17 ON PLAN P-500.
- 3/4" GAS DOWN FOR EQUIPMENT.
- . SHUT OFF VALVE W/ HANDLE AT THE CEILING, EASILY ACCESSIBLE, G.C. TO INSTALL LOCATION INDICATOR STICKER PROVIDED BY PANDA EXPRESS.
- 2" GAS UP TO MAKE-UP AIR UNIT ON ROOF.
- 16. 1/2" HW & CW TO FAUCET (40B) FOR CHEMICAL FEED SYSTEM. LEFT SIDE PLUMBING ROUGH AT 24" OFF LEFT END OF SINK. SEE DETAIL 16 SHEET P-500.
- . GAS HEADER INSTALL TIGHT TO WALL AND TIGHT TO BOTTOM OF TRUSSES.
- 18. COLD WATER MANIFOLD "C" BELOW CEILING. REF ARCH ELEVATIONS.
- COLD WATER MANIFOLD "D" BELOW CEILING. REF ARCH ELEVATIONS.
- 20. HOT WATER MANIFOLD "A" BELOW CEILING. REF ARCH ELEVATIONS.
- 21. SEE HOT WATER SYSTEM DIAGRAM 5/P-400.
- 22. 3/4" GALVANIZED PIPE, THREADED AT BOTH ENDS. ROUTE ABOVE CEILING FROM FRYERS TO GREASE STORAGE TANK.
- ROUGH-IN HEIGHT AT STORAGE ROOM: 90" AFF
- ROUGH-IN HEIGHT AT COOKLINE: 18"AFF VERTICAL RISE AT FRYER LOCATION HIGH AS POSSIBLE, BUT NOT TO EXCEED 15' IN
- SLOPE OF PIPE TO BE STEEP AS POSSIBLE BUT NO LESS THAN 1/4" PER LINEAR FOOT 23. 1/2" CW UP TO "O" ROOF HYDRANT, LOCATE PER OWNER REQUIREMENTS.
- 4. CONNECTIONS TO POT WASHER TO BE LOCATED UNDER THE DRAIN BOARD OF 3-COMP SINK. SEE DETAIL 20 ON SHEET P-500.
- 5. COORDINATION GAS SECONDARY WALL PENETRATION LOCATION WITH GC & SIGN VENDORS SHOP DRAWINGS. PENETRATION TO BE LOCATED BETWEEN VERTICAL SIGNAGE SLATS IN FIELD.
- 26. 1-1/4"G UP TO ROOF W/ SOV. FOR ROOFTOP UNIT 2 AND 3.
- 27. CONTRACTOR TO FIELD VERIFY THE AVAILABILITY, SIZE AND LOCATION OF EXISTING RPZ AND WATER METER, PROVIDE NEW IF NOT EXISTING. BASE BID ACCORDINGLY

- ALL WATER LINES SERVING WATER HEATERS SHALL RUN DOWN FROM CEILING SPACE IN WALL, OFFSET OVER THROUGH WALL 6" BELOW CEILING, ABOVE WATER HEATER, THEN DROP DOWN TO HEATER.
- AVOID RUNNING WATER VALVES DIRECTLY ABOVE WATER HEATER, TO AVOID DAMAGE TO WATER HEATER CAUSED BY POSSIBLE LEAKS
- REFER TO PIPING RISER DIAGRAMS, SHEET P-400 FOR ALL PIPE SIZING NOT SHOWN ON
- DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE, I
- ALL PEX PIPING TO BE CONTINUOUS FROM MANIFOLD TO COPPER STUB OUT OF WALL, DETAIL 11/P-400.

ENERGY CONSERVATION NOTES

ALL DOMESTIC WATER PIPING ABOVE GRADE SHALL BE INSULATED WITH FIRE-RETARDANT, FACTORY-APPLIED JACKET. PROVIDE COLD WATER PIPING WITH FACTORY-APPLIED VAPOR BARRIER. INSULATION REQUIREMENT SHOULD COMPLY WITH INTERNATIONAL ENERGY CONSERVATION CODE 2018 SECTION C403.11.3 & TABLE C403.11.3 REFER BELOW TABLE.

	MINIMUM PIPE INSULATION THICKNESS										
	FLUID OPERATING	INSULATION CO	NOMINAL PIPE OR TUBE SIZE (INCHES)								
	TEMP. RANGE AND USAGE (°F)	CONDUCTIVITY BTU· IN./ (H. FT2. °F)	MEAN RATING TEMPERATURE, °F	<1	1 to < 1½	1½ to < 4	4 to < 8	≥8			
	105-140	0.21-0.28	100	1.0	1.0	1.5	1.5	1.5			
	40-60	0.21-0.27	75	0.5	0.5	1.0	1.0	1.0			
		•	•								

- 2. AS PER INTERNATIONAL ENERGY CONSERVATION CODE 2018 C404.6.1 HEATED-WATER CIRCULATION SYSTEMS SHALL BE PROVIDED WITH A CIRCULATION PUMP. THE SYSTEM RETURN PIPE SHALL BE A DEDICATED RETURN PIPE OR A COLD WATER SUPPLY PIPE. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN THE OCCUPANCY. THE CONTROLS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NO DEMAND FOR HOT WATER.
- WATER DISTRIBUTION SYSTEM AS PER INTERNATIONAL ENERGY CONSERVATION CODE 2018 C404.7, HAVING ONE OR MORE RE-CIRCULATION PUMPS THAT PUMP WATER FROM A HEATED-WATER SUPPLY PIPE BACK TO THE HEATED-WATER SOURCE THROUGH A COLD-WATER SUPPLY PIPE SHALL BE A DEMAND RE-CIRCULATION WATER SYSTEM. PUMPS SHALL HAVE CONTROLS THAT COMPLY WITH BOTH OF
 - THE FOLLOWING: a. THE CONTROL SHALL START THE PUMP UPON RECEIVING A SIGNAL FROM THE ACTION OF A USER OF A FIXTURE OR APPLIANCE, SENSING THE PRESENCE OF A USER OF A FIXTURE OR SENSING THE FLOW OF HOT OR TEMPERED
 - WATER TO A FIXTURE FITTING OR APPLIANCE b. THE CONTROL SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD-WATER PIPING TO 104°F (40°C).

COLD WATER PIPING

HOT WATER PIPING

PLUMBING VENT (V)

GAS LINE

HOT WATER RETURN PIPING

EXISTING PLUMBING VENT (V

EXISTING SANITARY WASTE (EX.SAN)

EXISTING GREASE WASTE (EX.GSAN

SANITARY WASTE (SAN)

GREASE WASTE (GSAN

PIPE TURNING UP/DOWN

. WITH HALF GRATE

FIXTURE IDENTIFICATION

POINT OF CONNECTION

KITCHEN EQUIPMENT IDENTIFICATION

PLAN NOTE

BALL VALVE

CHECK VALVE

PLUMBING SYMBOLS

——\—CV

AFF/AFG

PLUMBING ABBREVIATIONS

CLEANOUT

TYPICAL

EXISTING

GREASE WASTE

WALL CLEANOUT

FLUSH FLOOR CLEANOUT

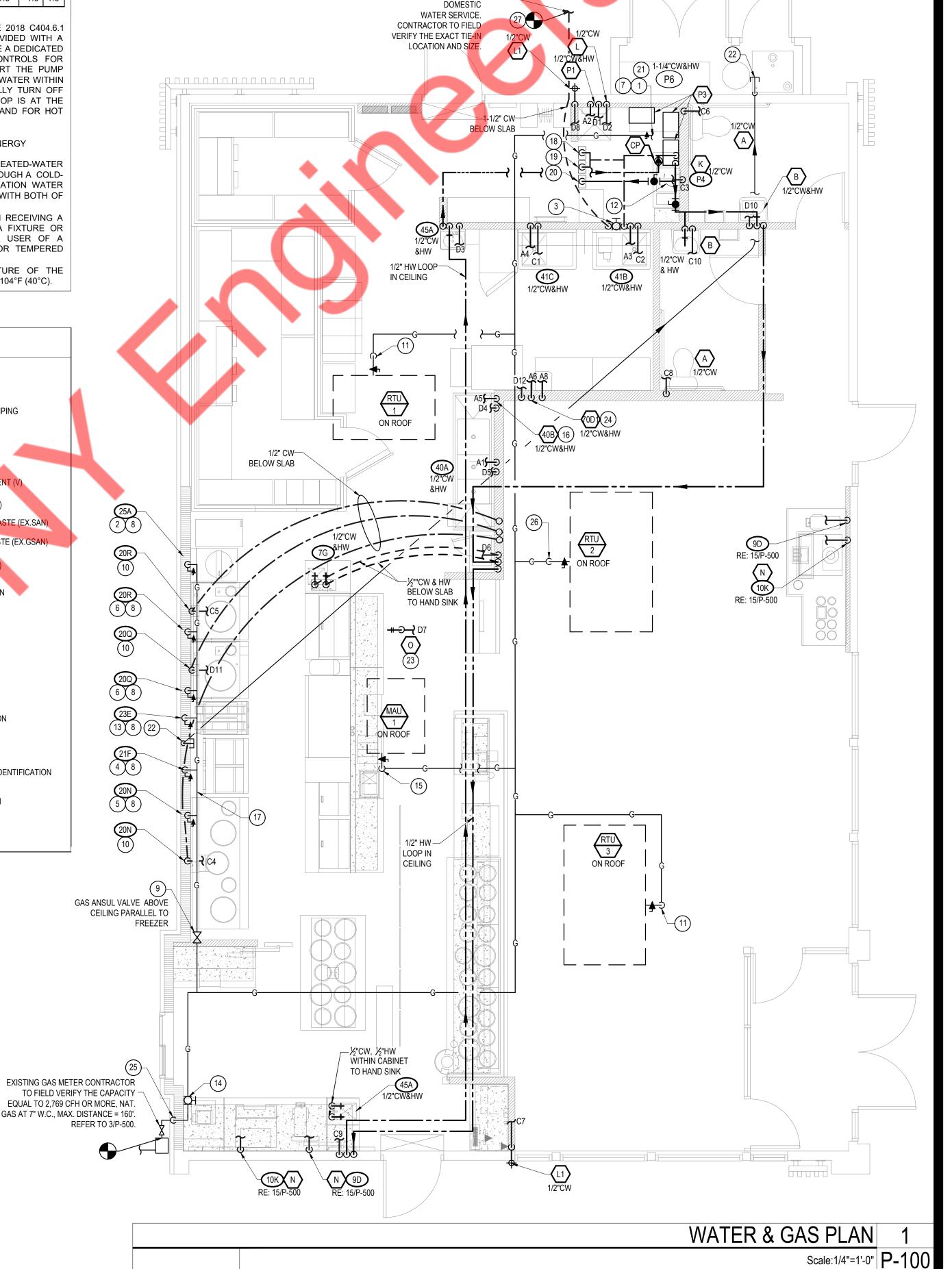
VENT THRU ROOF

ABOVE FINISHED FLOOR/GRADE

HW SYSTEM PIPING IS DESIGNED AS PER MAXIMUM ALLOWED PIPE LENGTH METHOD AS PER IECC 2018 C404.5.1. THE HW PIPE LENGTH FROM THE NEAREST SOURCE OF HEATED WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL BE AS PER FOLLOWING TABLE.

ENERGY CONSERVATION NOTES

NOMINAL PIPE SIZE (INCHES)	MAXIMUM PIPING LENGTH (FEET)			
,	PUBLIC LAV	OTHER FIXTURES		
1/2"	2'	43'		
3/4"	0.5'	21'		
1"	0.5'	13'		
1¼"	0.5'	8'		
1½"	0.5'	6'		



1-1/2" UNDERGROUND -



WATER & GAS PLAN

PLUMBING FIXTURE SCHEDULE

- TANK WATER CLOSET (HANDICAPPED): AMERICAN STANDARD 2467.016, FLUSH TANK WITH TRIP LEVER ON OPEN SIDE OF TOILET. FLOOR MOUNTED. STANDARD WHITE FINISHED. ELONGATED FRONT BOWL. PRESSURE ASSISTED 1.6 GPF. RIM 16 1/2" A.F.F. AM. STD 4142.600 TANK COVER LOCKING DEVICE AM. STD. 5901.100.020 OPEN FRONT SEAT LESS COVER.
- LAVATORY: ZURN MODEL Z5344, 20"x18" WALL HUNG LAVATORY, VITREOUS CHINA, WITH 4" CENTER FAUCET HOLES & ZURN Z-1231 CONCEALED ARM CARRIER. FAUCET: TOTO T28S11E#CP STANDARD ECOPOWER FAUCET. SENSOR, 1.0 GPM, 0.18gpc. 4" COVER PLATE #THP3158#CP. THERMOSTIC MIXING VALVE: TOTO TLT10R.

PROVIDED & INSTALLED BY CONTRACTOR CONTACT CHRISTINE MCALEXANDER 800-459-7099 PANDARG@HJCINC.COM

- C NOT USED
- FLOOR DRAIN: ZURN # ZB415-B5 CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, MEMBRANE FLASHING CLAMP. PROVIDE 3" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION. REFER TO DETAIL 17/P-500. PROVIDE TRAP PRIMER
- FLOOR DRAIN: ZURN # ZB415-B5 CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, MEMBRANE FLASHING CLAMP. PROVIDE 3" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION. REFER TO DETAIL 9/P-500. PROVIDE TRAP PRIMER
- FLOOR SINK: ZURN # Z1902-31, RECEPTOR WITH 12" SQUARE TOP x 10" DEEP CAST IRON BODY WITH ACID-RESISTING ENAMEL INTERIOR. RECEPTOR OWNER SUPPLIED STAINLESS STEEL MESH LINER FOR BUCKET WITHOUT GRATE.
- FLOOR SINK: ZURN # Z1902-2-32, RECEPTOR WITH 12" SQUARE TOP x 10" DEEP CAST IRON BODY WITH ACID-RESISTING ENAMEL INTERIOR. RECEPTOR PROVIDED WITH PORCELAIN ENAMEL LOOSE-SET 1/2 GRATE AND ALUMINUM DOME STRAINER
- ⟨ F ⟩ NOT USED
- FLOOR DRAIN WITH FUNNEL: ZURN # ZB415-AR-4 ACID RESISTING EPOXY COATED CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, 4" FUNNEL. PROVIDE 2" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION.
 REFER TO DETAIL. PROVIDE TRAP PRIMER
- H > NOT USED
- GREASE INTERCEPTOR: EXISTING GREASE INTERCEPTOR.
- J NOT USED
- PROVIDE ZURN 375ST STAINLESS STEEL REDUCED PRESSURE PRINCIPLE ASSEMBLY AT BAG-N-BOX. REFER TO 15/P-500
- $\left\langle \begin{array}{c} \mathsf{L} \end{array} \right
 angle$ HOSE BIBB: ACORN #8121 WITH VACUUM BREAKER, CHROME PLATED.
- HOSE BIBB: WOODFORD MB65 FREEZELESS COMMERCIAL CONCEALED BOX TYPE WALL HYDRANT IN SECURE LOCK STYLE MODULAR BOX. SINGLE CHECK ANTI SIPHON VACUUM BREAKER. CHROME HEAD, BRASS VALVE BODY HYDRANT WITH 3/4" HOSE CONNECTION 18" A.F.F.
- \langle L2 angle NOT USI
- TRENCH DRAIN: ZURN #Z-886-RFS, 6" WIDE x 80" LONG, TRENCH DRAIN SYSTEM.

 MODULAR CHANNEL SECTIONS SHALL BE MADE OF HIGH DENSITY POLYETHYLENE
 WITH INTERLOCK ENDS, A RADIUS BOTTOM AND REINFORCED STAINLESS STEEL
 SLOTTED GRATE.
- TRENCH DRAIN: ZURN #Z-664-ZN, 6" WIDE X 12" LONG SECTION, TRENCH DRAIN SYSTEM. 24" TOTAL LENGTH. PROVIDE (ONE) BOTTOM OUTLET MODULE AND (ONE) EXTENSION MODULE WITH INTERLOCK ENDS, STAINLESS STEEL SLOTTED HEEL-PROOF
- PROVIDE WATTS SD-3 DUAL CHECK VALVE WITH ATMOSPHERIC PORT AND STRAINER AFTER EACH BV.
- FREEZE PROOF ROOF HYDRANT: WOOFORD MODEL: SRH-MS
- MOP SINK: GSW # SE2424FM 24"x24" STAINLESS STEEL UNIT, 18 GA. STAINLESS STEEL.
 CHICAGO FAUCET #897 WITH INTEGRAL STOPS IN SHANKS, WALL BRACE, HOSE
 THREADS, PAIL HOOK, VACUUM BREAKER; ROUGH BRASS FINISH; THREE FOOT
 RUBBER HOSE; 3" TRAPPED AND VENTED WASTE CONNECTION. PROVIDE 3/4" HW & CW
 RI 8" OC, 36" A.F.F. PROVIDE 3/4" CW HOSE BIBB, ACORN #8121 W/ VACUUM
 BREAKER, 48" A.F.F. FOR CHEMICAL CONNECTION.
- TANKLESS GAS WATER HEATER SYSTEM. MFG: RINNAI TRX-02CU (3 CU199i), 597,000
 BTU/HR GAS INPUT. 4.2 GPM @ 90° RISE. SEE PIPING DIAGRAM ON SHEET P-400
 INCLUDE ALL PIPING, VENTING, WALL MOUNTING BRACKET AND ANY ACCESSORIES
 NECESSARY TO COMPLETE SYSTEM INSTALL. PLUMBER SHALL REGISTER PRODUCT
 WITH RINNAI AT TIME OF INSTALLATION TO VALIDATE WARRANTY.
 CONTACT:STACEY PETERSON, RINNAI AMERICA CORPORATION
 CORPORATE ACCOUNTS MANAGER
 (909-631-8297) SPETERSON@RINNAI.US
- HW CIRC. PUMP MFG: GRUNDFOS, UP 15-18B5, 1/25 HP, 115 VOLT, 2 GPM @ 7' HEAD OR APPROVED EQUIVALENT.
- ____/ _____ RD - ROOF DRAIN
- J.R. SMITH #1010 CAST IRON ROOF DRAINS WITH FLASHING COLLAR AND CAST IRON DOME. FURNISH EXTENSION (SUFFIX-E) FOR INSULATED ROOFS. SUMP RECEIVER (SUFFIX-R) AND UNDER-DECK CLAMP (SUFFIX-C) FOR ALL BUT POURED-IN-PLACE INSTALLATIONS. OUTLET CONNECTION TYPE SHALL BE COMPATIBLE WITH PIPING SYSTEM. PLUMBER TO PROVIDE AND INSTALL HEAT TAPE, RADIANT SOLUTIONS #JHSF-30-1 ON BOTH DRAINS IN COLD CLIMATES.
- OD OVERFLOW ROOF DRAIN:
 J.R. SMITH #1070 WITH SAME FEATURES AS DESCRIBED FOR "ROOF DRAINS".
 STANDPIPES SHALL BE ADJUSTED AND SECURED SO THAT AFTER THE
 INSTALLATION OF THE DRAIN ASSEMBLY, THE TOP OF THE STANDPIPE SHALL
 BE (2") ABOVE THE ADJACENT ROOF SURFACE.
- 40B FAUCET FOR CHEM: T&S BRASS MODEL #B-0669-POL. PROVIDED BY G.C.

FIXTURE BRANCH SCHEDULE

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET (HANDICAPPED)	1/2"		4"	2"
LAVATORY	1/2"	1/2"	2"	1 1/2"
2 AND 3 - COMP SINK	1/2"	1/2"	3"	2"
HAND SINK	1/2"	1/2"	2"	1 1/2"
MOP SINK (J.S.)	1/2"	1/2"	3"	2"
EQUIPMENT	1/2"			
FLOOR DRAIN/SINK			2" OR 3"	2"

KITCHEN EQUIPMENT SCHEDULE

ITEMS IN THIS SCHEDULE ARE FURNISHED BY THE OWNER (U.N.O.) AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE AND CONNECTED TO THE PLUMBING UTILITIES BY THE PLUMBING CONTRACTOR, WHO SHALL INSTALL ALL PLUMBING DEVICES FURNISHED WITH EQUIPMENT.

WASTE, FS = FLOOR SINK, CFD = CONDENSATE FLOOR DRAIN, VB = VACUUM BREAKER. FLEX = A SIX FOOT COILED LENGTH OF FOOD QUALITY FLEXIBLE REINFORCED PLASTIC TUBING CONNECTED FROM THE ROUGH IN TO THE EQUIPMENT WITH ALL REQUIRED ADAPTERS AND HOSE CLAMPS.

- ALL PIPES MUST MAINTAIN A MINIMUM CLEARANCE OF 6" AFF AND MUST BE WELL SUPPORTED. NO FLOOR SUPPORTS ALLOWED.
- BEVERAGE COUNTER MOUNTED SODA MACHINE WITH ICE MACHINE: PROVIDE 3/4"
 COPPER PIPE IW FROM COUNTER TROUGH DRAIN TO FS WITH 1" AIR GAP, INSULATE.
 WATER TO SODA MACHINE TO BE PROVIDED THROUGH BUNDLE FROM FILTER AND
 RACK IN KITCHEN BY SODA MACHINE INSTALLER. NO LEGS TO BE INSTALLED.
 MACHINE TO SET DIRECTLY ON COUNTER.
- WATER FILTER: PROVIDE 1/2" CW AT 96" AFF WITH BV. PROVIDE FLEX AND REDUCED PRESSURE STAINLESS STEEL BACKFLOW PREVENTOR, OR OTHER DEVICE AS REQUIRED BY LOCAL CODE. INSTALL OWNER PROVIDED WATER FILTER AND MAKE CONNECTIONS TO BACKFLOW PREVENTOR AND WATER SUPPLY. PROVIDE ALL REQUIRED FITTINGS TO ALLOW SODA MACHINE INSTALLER TO HOOK UP BOOSTER PUMP TO WATER FILTER. REFER TO DETAIL 15/P-500.
- 22"D REAR COUNTER WITH HAND SINK, PROVIDE 1/2" CW AND 1/2" HW AT 24" AFF AND 8" OC WITH CHROME-PLATED, 1/4" TURN BALL VALVES. CONNECT TO OWNER SUPPLIED FAUCETS WITH METAL FLEX PROVIDE 2" DRAIN PIPE WITH 'P' TRAP AND WALL MOUNTED CLEAN-OUT. ALL EXPOSED DRAIN PIPES AND FITTINGS TO BE
- 9D ICE TEA MAKER: PROVIDE 1/2" CW @ 24" A.F.F. PROVIDE ALL REQUIRED FITTINGS TO ALLOW ICE TEA INSTALLER TO HOOK UP ONE BV, OTHER BV FOR OTHER EQUIPMENT.

CHROME PLATED, NOT P.V.C.

- SODA MACHINE MOUNTED ICE MACHINE. PROVIDE 1/2" CW AT 24" A.F.F. WITH BV. PROVIDE ALL REQUIRED FITTINGS TO ALLOW ICE MACHINE INSTALLER TO HOOK UP ICE MACHINE TO CW.
- CHINESE RANGE: PROVIDE 1/2" CW AT 10" AFF WITH BV. PROVIDE PRESSURE TYPE VB OR OTHER BACKFLOW DEVICE AS REQUIRED BY LOCAL CODE, AND CONNECT TO OWNER SUPPLIED FAUCETS. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP. PROVIDE 1-1/2" GAS SUPPLY AT 9" AFF WITH EASILY ACCESSIBLE SHUT-OFF VALVE. INSTALL OWNER SUPPLIED GAS REGULATOR AND ADJUST GAS LEVEL TO BURNERS.
- CHINESE RANGE: PROVIDE 1/2" CW AT 10" AFF WITH BV. PROVIDE PRESSURE TYPE VB OR OTHER BACKFLOW DEVICE AS REQUIRED BY LOCAL CODE, AND CONNECT TO OWNER SUPPLIED FAUCETS. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP. PROVIDE 1-1/4" GAS SUPPLY DOWN TO 9" AFF REDUCE TO 3/4" AT EQUIPMENT CONNECTION WITH EASILY ACCESSIBLE SHUT-OFF VALVE. INSTALL OWNER SUPPLIED GAS REGULATOR AND ADJUST GAS LEVEL TO BURNERS.
- CHINESE RANGE-AUTO WOK: PROVIDE 1/2" CW AT 10" AFF WITH BV. INSTALL OWNER SUPPLIED GAS REGULATOR AND ADJUST GAS LEVEL TO BURNERS.

 CONTRACTOR TO PROVIDE AND INSTALL THE FOLLOWING:

 BACKFLOW DEVICE PER LOCAL CODE
 - WATER FAUCET (FISHER 36161)
 CMI LEAD FREE BRASS BALL VALVE
 STREAMLINE COPPER-IRON TUBE
 2" COPPER PIPE IW TO FS WITH 2" AIR GAP
 1-1/4" GAS SUPPLY DOWN TO 9" AFF, REDUCE TO 3/4" AT EQUIPMENT
 CONNECTION
 WITH EASILY ACCESSIBLE SHUT-OFF VALVE.
- 21F FRYER: PROVIDE 1-1/2" GAS SUPPLY DOWN TO 14" AFF THEN TRANSITION TO 1" WITH 90° ANGLE AND SHUT OFF VALVE. PROVIDE ALL REQUIRED FITTINGS AND INSTALL OWNER SUPPLIED QUICK DISCONNECT FLEXIBLE PIPE AND CONNECT TO UNITS WITH 90° ANGLE. SEE DETAIL ON P-500
- GRIDDLE: PROVIDE 3/4" GAS SUPPLY DOWN TO 20" AFF WITH EASILY ACCESSIBLE SHUT-OFF VALVE. PROVIDE ALL REQUIRED FITTINGS. CONNECT TO UNIT WITH OWNER SUPPLIED QUICK DISCONNECT (3/4"x48", (1) SWIVEL KIT)
- RICE COOKER: PROVIDE 3/4" GAS SUPPLY AT 30", AND 3/4" GAS SUPPLY AT 10" AFF WITH
 SHUT OFF VALVES, ONE FOR EACH UNIT. PROVIDE ALL REQUIRED FITTINGS AND INSTALL OWNER SUPPLIED QUICK DISCONNECT FLEXIBLE PIPE AND CONNECT TO
- WALK-IN COOLER: PROVIDE 1" COPPER PIPE IW FROM DRAIN PAN ON EACH UNIT TO FLOOR DRAIN WITH 'P' TRAP AND 1" AIR GAP. MOUNT ALL PIPES WITHIN WALK-IN BOX
- WITH 1" HOLD-OFF SUPPORTS.

 WALK-IN FREEZER: PROVIDE 1" COPPER PIPE IW FROM DRAIN PAN ON EACH UNIT TO FLOOR DRAIN WITH 'P' TRAP AND 1" AIR GAP. MOUNT ALL PIPES WITHIN WALK-IN BOX
- FLOOR DRAIN WITH 'P' TRAP AND 1" AIR GAP. MOUNT ALL PIPES WITHIN WALK-IN E
 WITH 1" HOLD-OFF SUPPORTS. PROVIDE HEAT TRACE REFER TO ELECTRICAL
 DRAWING.

 40A
 POT SINK: PROVIDE 1/2" CW AND 1/2" HW AT 14" AFF AND 8" OC WITH BVS & CV.
- COPPER PIPE IW TO FS WITH 2" AIR GAP, OR, IF REQUIRED BY LOCAL CODE, INSTALL 2" COPPER PIPE DIRECTLY TO SEWER SYSTEM. INSTALL OWNER SUPPLIED LEVER DRAIN STOPS. SEE DETAIL ON SHEET P-500.

 THAWING CABINET: 1-DOOR, STAINLESS STEEL GRIDS, 177GAL (670LT), 28 50°F FULLY PRESSED BOTTOM PLATE AND ROUNDED CORNERS; IT IS SUPPLIED WITH 15

AISI 304 GRIDS 2/1 AND THE RACK SUPPORT CAN BE REMOVED WITHOUT TOOLS. THE

3 FACTORY PRESET AND 1 FREE PROGRAMS. BUILT-IN REFRIGERATION UNIT WITH

R134A GAS IN REFRIGERATION CIRCUIT. MEETS HACCP REQUIREMENTS. DELIVERED

CONNECT TO OWNER SUPPLIED FAUCET WITH COPPER PIPING. PROVIDE 1-1/2"

ON WHEELS

41B SINGLE BOWL PREP SINK: PROVIDE 1/2" CW AND 1/2" HW AT 14" AFF AND 8" OC WITH BVS. CONNECT TO OWNER SUPPLIED FAUCETS WITH COPPER PIPING. PROVIDE 2"

COPPER PIPE IW TO FS WITH 2" AIR GAP, OR, IF REQUIRED BY LOCAL CODE, INSTALL 2" COPPER PIPE DIRECTLY TO SEWER SYSTEM. INSTALL OWNER SUPPLIED LEVER

DRAIN STOPS.

- HAND SINK, PROVIDE 1/2" CW AND 1/2" HW AT 24" AFF AND 8" OC WITH CHROME-PLATED,
 1/4" TURN BALL VALVES. CONNECT TO OWNER SUPPLIED FAUCETS WITH METAL FLEX PIPING. PROVIDE 2" DRAIN PIPE WITH 'P' TRAP AND WALL MOUNTED CLEAN-OUT. ALL
- EXPOSED DRAIN PIPES AND FITTINGS TO BE CHROME PLATED, NOT P.V.C.

 POT WASHER: HOBART PW10SER ADVANSYS VENTLESS POT/ PAN/ UTENSIL WASHER W/ BOOSTER HEATER. INTERNAL CONDENSING SYSTEM. VENTLESS ENERGY RECOVERY SYSTEM. HOOD NOT REQUIRED.
 PROVIDE (2) BRASS HOSE BIB @20" AFF. HOT WATER HB WITH RED HANDLE. COLD WATER HB WITH BLUE HANDLE.
- WATER SOFTENER: HOBART WS-40, COMPACT CABINET SOFTENER. PROVIDE ON COLD WATER SIDE ONLY
- FILTER AT WATER HEATER. EDCO SECURE SCALE PROTECTION SYSTEM #EDCO-HP1.5PE-S-(L OR R).
 SUPPLIED BY PANDA. PROVIDE TRANSITION FITTINGS AT INLET AND OUTLET OF FILTER. SEE DETAIL 5/P-400

PLUMBING KEY NOTES

- SODA CONDUIT: PROVIDE 6" PVC CONDUIT BELOW FLOOR FROM THE SIDE OF SODA STORAGE RACK TO SODA DISPENSER PER DETAIL #4 ON SHEET P-500.
- 2. CONDENSATE: ROUTE SHARED CONDENSATE LINE THROUGH WALK-IN COOLER. DO NOT RUN THROUGH WALK-IN FREEZER. PROVIDE 1" INSULATED CONDENSATE DRAIN PIPE FROM THE EVAPORATIVE COIL. DISCHARGE TO FLOOR SINK OR MOP SINK WITH AIR GAP OF TWICE PIPE DIAMETER. INSTALL AT MINIMUM 76" HEIGHT A.F.F. REFER TO DETAIL #2 ON SHEET P-500.
- 3. PROVIDE TRAP PRIMER FOR FLOOR DRAIN. SEE DETAIL 17/P-500.
- 4. RDL & ODL LINES DN. IN WALL. TERMINATE ODL THRU WALL AS CLOSE TO BOTTOM PLATE AS POSSIBLE, EXTEND 1/2" PAST ARCH FINISH, WATER PROOF SEAL ALL AROUND. TERMINATE RDL & ODL WITH 4" PVC LAMB'S TONGUE NOZZLE, COLOR ANTIQUE BRONZE, ARKMANN MODEL #PDN-4. (IF AVAILABLE TIE RD TO STORM SEWER UNDERGROUND)
- 5. COMBINATION WASTE/VENT
- 6. LAV. TAILPIECE WITH TRAP PRIMER, RUN 1/2" CW BELOW FLOOR TO FLOOR DRAIN, SEE DETAIL #9 ON PLAN P-500.
- 7. (AAV) STUDOR MINI-VENT AIR ADMITTANCE VALVE- INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 8. WYE WITH CLEANOUT ON TOP.
- 9. INDIRECT WASTE FROM 3 CS AND 1 CS SINK TO ADJACENT EXISTING FLOOR SINK WITH APPROVED AIR GAP.
- 10. CONTRACTOR TO FIELD VERIFY THE SIZE AND LOCATION OF THE EXISTING GREASE INTERCEPTOR. CONTRACTOR TO FIELD VERIFY THE CAPACITY OF EXISTING GREASE INTERCEPTOR IS EQUAL TO 1000 GALLONS OR MORE, UPGRADE IF REQUIRED.
- 11. CONNECT NEW 4" SANITARY LINE TO EXISTING SANITARY LINE. CONTRACTOR TO FIELD VERIFY THE EXACT EXISTING SANITARY TIE-IN LOCATION, SIZE, AND INVERT LEVEL.
- 12. CONNECT NEW 4" GREASE SANITARY LINE TO EXISTING GREASE SANITARY LINE. CONTRACTOR TO FIELD VERIFY THE EXACT EXISTING GREASE SANITARY TIE-IN LOCATION, SIZE, AND INVERT LEVEL.

FIXTURE UNIT SCHEDULE

	TIXTUIL	OIVII	OULL	JULL		
ITEM FIXTURE		QTY	WATE	ER FU	SEW	ER FU
IIEW			EACH	TOTAL	EACH	TOTAL
A	WATER CLOSET	2	5	10	4	8
B	LAVATORY	2	2	4	1	2
D \D1	FLOOR DRAIN 3" TRAP	4			5	20
EXE1	FLOOR SINK 3" TRAP	12			5	60
P1	MOP SINK	1	3	3	2	2
G	FLOOR DRAIN W/ FUNNEL 2" TRAP	2			3	6
	HOSE BIBB	4	4	16		_
M	TRENCH DRAIN 3" TRAP	2	_		5	10
4F)	FILTER SYSTEM	1	1	1	FS	
9D	ICE TEA BREWER	2	1	2	FS	
(10K)	400 LB ICE MACHINE	2	1	2	FS	
(20N)	CHINESE RANGE	1	2	2	FS	
20Q) 20R	CHINESE RANGE	2	2	4	FS	J
40A	POT SINK (3.COMP.)	1	4	4	FS	
41B 41C	PREP. SINK (1.COMP.)	2	4	8	FS	
45A	HAND SINK	3	2	6	1	3
(40T)	THAWING CABINET	1			FS	
70D	POT WASHER	1	4	4	FS	_
	TOTAL			66		106

FIXTURE UNIT SUMMARY SERVICE

DOMESTIC WATER

SANITARY SEWER

SERVICE REQUIREMENTS		
SERVICE	SIZE MAIN	CAPACITY
DOMESTIC WATER	1-1/2 INCH	33 GF
SANITARY SEWER	4 INCH	106 F.U

3 INCH

TOTAL F.U.

2,570 CFH

GREASE INTERCEPTOR CALCULATION

	FIXTURE	QTY.	FU	FU TOTAL	
\	FLOOR DRAIN/FLOOR SINK 3" TRAP	8	5	40	
	TRENCH DRAIN 3" TRAP	1	5	5	
	MOP SINK	1	2	2	
	TOTAL			47 (24 GPM	1

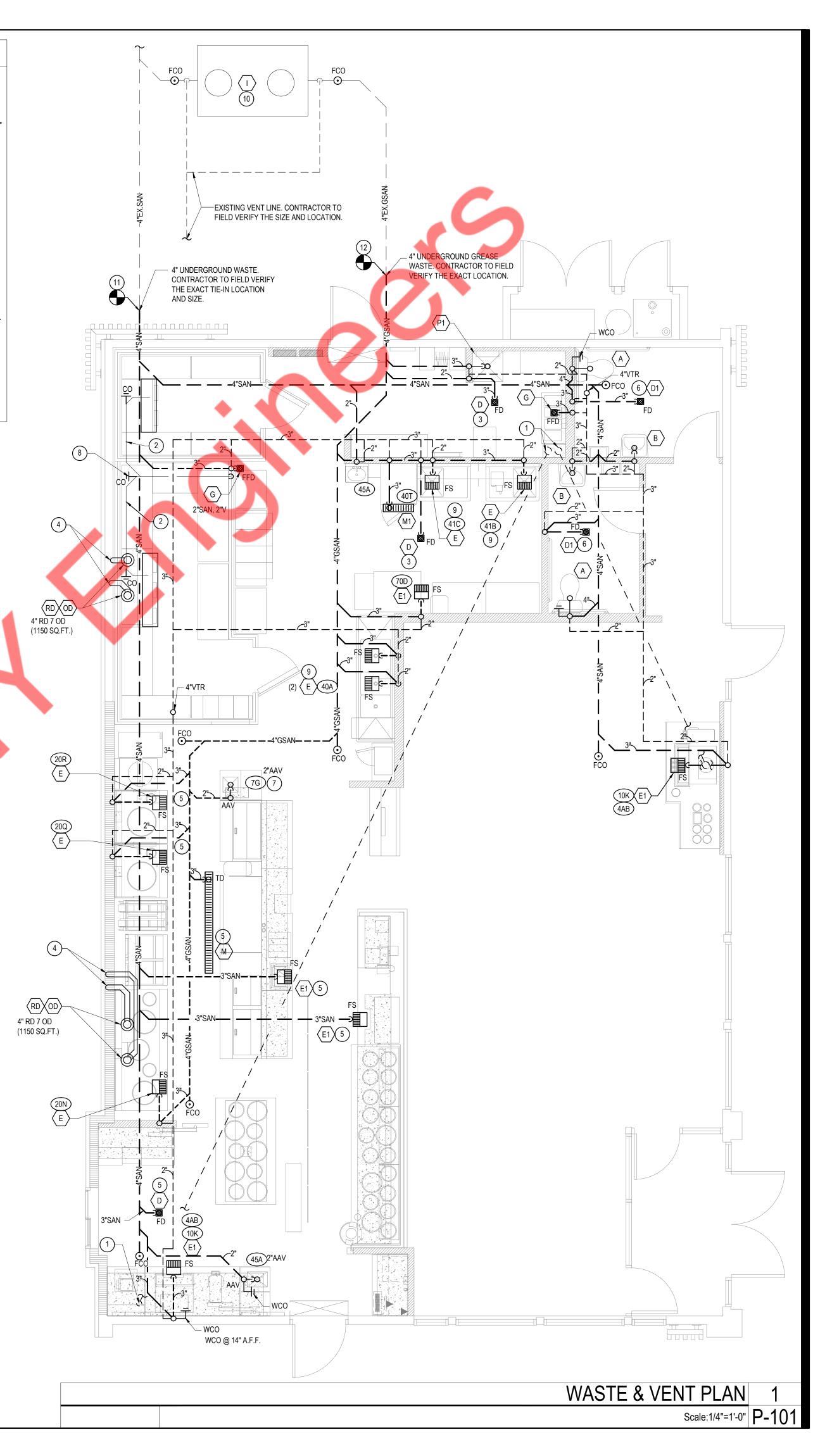
FIXTURE UNIT VALUE BASED ON IPC, SECTION 709

FLOW THROUGH TYPE GREASE INTERCEPTOR MINIMUM SIZE WILL BE 50 POUND GREASE CAPACITY PER 2009 IPC, TABLE 1003.3.4.1.

GRAVITY TYPE GREASE INTERCEPTOR SIZE BASED ON 24 GPM WITH 30 MINUTE RETENTION TIME (24*30=720) TO BE SIZED AT 1000 GALLONS.

PIPE MATERIAL SCHEDULE

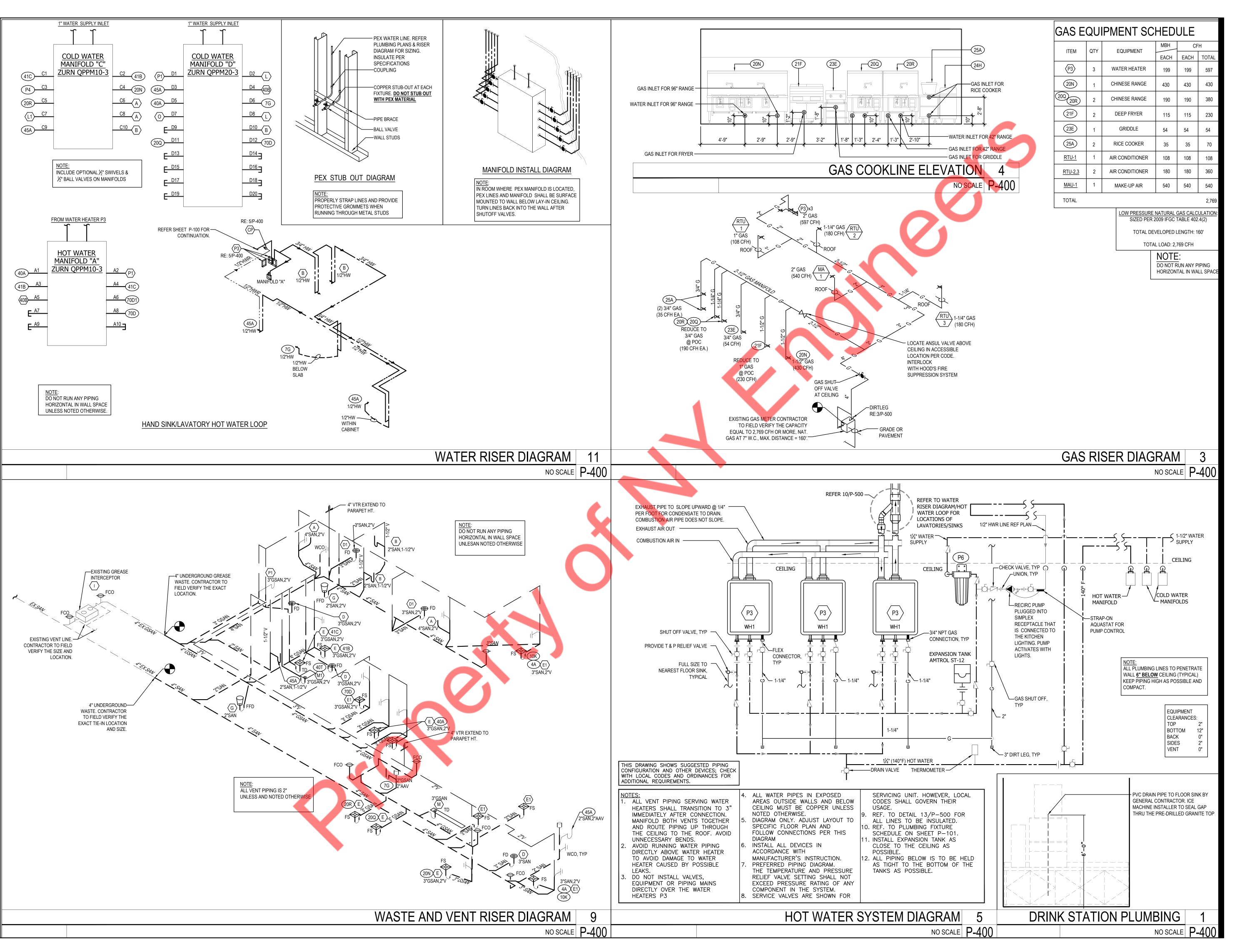
SERVICE	UNDERGROUND	ABOVE GROUND			
COLD & HOT WATER	TYPE "K" OR "L" HARD DRAWN COPPER TUBE	PEX			
SANITARY WASTE	*SCH. 40 PVC	*SCH. 40 PVC			
SANITARY VENT	*SCH. 40 PVC	*SCH. 40 PVC			
GAS		BLACK STEEL, SCHEDULE 40			
INDIRECT DRAIN		ḤARD DRAWN ÇOPPER TUBE TYPE "M"			
*SCH. 40 PVC IS PREFERRED IF APPROVED BY AUTHORITY HAVING JURISDICTION. PROVIDE SCHEDULE 40 PVC FOR ALL WASTE VENT PIPING & FITTINGS.					





P-101

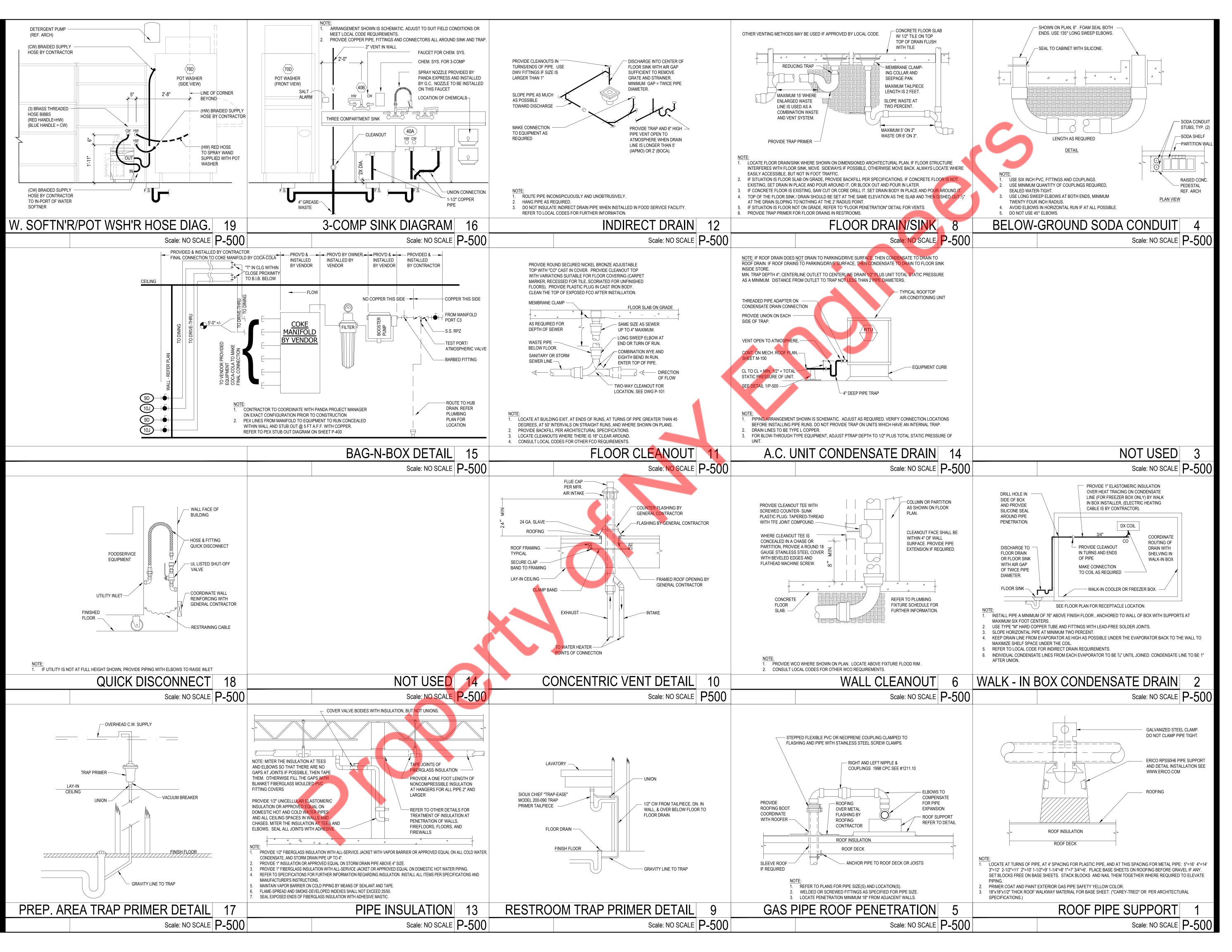
WASTE & VENT PLAN





P-400

WATER, GAS, WASTE & VENT RISER DIAGRAMS





P-500

PLUMBING DETAILS