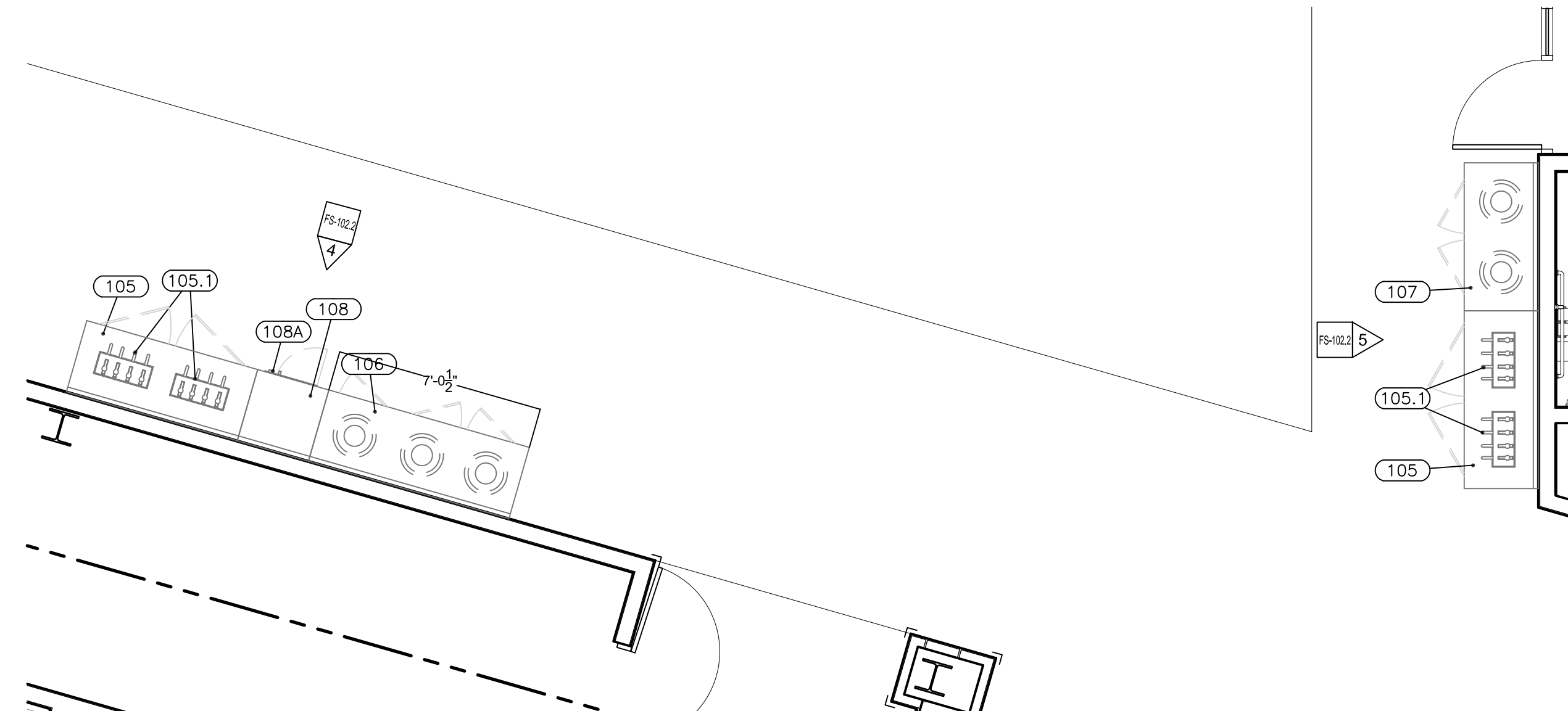
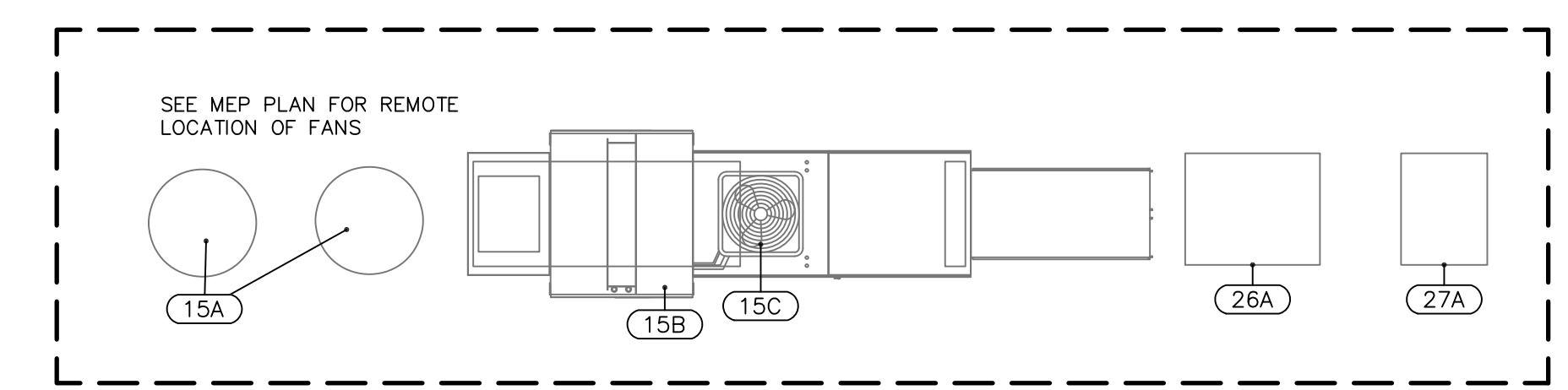


GENERAL NOTES

- THE DRAWINGS, SPECIFICATIONS, ALL ELECTRONIC MEDIA, AND OTHER DOCUMENTS PROVIDED BY ADVANCED FOODSERVICE CONSULTING FOR PROJECT SHALL BE DEEMED ADVANCED AND THEY SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHT. THE OWNER/ARCHITECT SHALL BE PERMITTED TO RETAIN COPIES, INCLUDING REPRODUCIBLE COPIES OF THE ADVANCED DOCUMENTS FOR THIS PROJECT.
 - OWNER/ARCHITECT ACKNOWLEDGES THAT ADVANCED FOODSERVICE CONSULTING SHALL HAVE NO LIABILITY FOR ANY USE OF ADVANCED DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS BY ANY OTHER PARTY OTHER THAN ADVANCED.
 - ADVANCED FOODSERVICE CONSULTING TAKES NO RESPONSIBILITY FOR ELECTRONIC MEDIA'S COMPATIBILITY WITH SOFTWARE OR HARDWARE USED BY THE RECIPIENT. WHEREAS THE TRANSMITTED INFORMATION IS SUBJECT TO CHANGE, THE RECIPIENT MUST ACCEPT RESPONSIBILITY FOR OBTAINING ANY UPDATES.
 - ALL INFORMATION REMAINS PROPERTY OF ADVANCED FOODSERVICE CONSULTING AND MAY NOT BE COPIED OR USED WITHOUT WRITTEN PERMISSION BY AN OFFICER OF ADVANCED.
- DRAWINGS PROVIDED INDICATE THE GENERAL ARRANGEMENT AND LOCATION OF FOOD SERVICE EQUIPMENT AND ARE REASONABLY EXACT BASED UPON INFORMATION PROVIDED BY THE ARCHITECT AND OTHERS AT THE TIME THE DOCUMENTS WERE PRODUCED. THEREFORE, ACCURACY IS NOT GUARANTEED. DRAWINGS ARE FOR ASSISTANCE AND GUIDANCE. EXACT LOCATION AND LEVELS ARE TO BE GOVERNED BY THE BUILDING CONSTRUCTION DOCUMENTS.
- ALL WORK MATERIALS AND EQUIPMENT SHALL BE IN FULL ACCORDANCE WITH CURRENT CODES AND REGULATIONS OF LOCAL JURISDICTION AUTHORITIES, PUBLIC HEALTH, NATIONAL BOARD OF FIRE UNDERWRITERS, AS WELL AS LOCAL, STATE AND NATIONAL ORDINANCES.
- THE GENERAL AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AS INDICATED BY THESE DRAWINGS AND SHALL NOTIFY FOODSERVICE CONTRACTOR OF ANY DISCREPANCIES BEFORE BEGINNING THEIR WORK.
- GENERAL CONTRACTOR TO VERIFY THE SIZE, LOCATION, AND CAPACITIES OF UTILITIES NECESSARY TO OPERATE ALL EQUIPMENT INDICATED BY OWNER OR BY OTHERS. IF UTILITIES ARE INDICATED FOR THIS EQUIPMENT ON THE ADVANCED FOODSERVICE CONSULTING DRAWINGS, THEY ARE TYPICAL CONNECTIONS ONLY AND MUST BE VERIFIED AS TO NECESSITY, CAPACITY AND LOCATION.
- AL ROUGHINS ARE TO STUB THRU THE FLOOR OR TERMINATE IN THE WALLS AS INDICATED BY THESE DRAWINGS. REFER TO THE MANUFACTURER'S SPECIFICATION SHEETS AND DETAIL DRAWINGS FOR FINAL CONNECTIONS.
- THE FOODSERVICE EQUIPMENT DRAWINGS INDICATE ONLY THE UTILITIES NECESSARY TO OPERATE THE FOOD SERVICE EQUIPMENT. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL CONVENIENCE RECEPTACLES, EXIT LIGHTS, EMERGENCY LIGHTING, PHONE CONNECTIONS, PA SYSTEMS, ALARM SYSTEMS, HOSE BIBS, WATER COOLERS, AND FLOOR AND AREA DRAINS.
- ALL PLUMBING, ELECTRICAL, REFRIGERATION, AND VENTILATION WORK INCLUDING ROUGHINS AND FINAL CONNECTIONS OF THE EQUIPMENT IS TO BE PERFORMED BY THE APPROPRIATE TRADES. THIS IS NOT A PART OF FOODSERVICE CONTRACT UNLESS NOTED OTHERWISE.
- BUILDING CONTRACTORS SHALL PROVIDE AND INSTALL WALL BACKING OR STEEL BACKING IN ANY WALLS AS REQUIRED TO HANG FOODSERVICE EQUIPMENT IF WALLS DEVIATE FROM CONCRETE WALLS.
- INSTALLATION OF EQUIPMENT (BY KEIC) SHALL INCLUDE DELIVERY, UNLOADING, UNCRATING, SETTING IN PLACE OF EQUIPMENT, LEVELING AND CHALKING AS REQUIRED. INSTALLATION DOES NOT INCLUDE HOISTING OF EQUIPMENT TO THE ROOF TOP, CORE DRILLING, ROOF PENETRATIONS, BUILDING PENETRATIONS, AND FITCH POCKETS, CURBS, FIRE STOPPING, WEATHERPROOFING IN WALL BLOCKING, INTERCONNECTING WIRING FROM EQUIPMENT CONTROLS TO EQUIPMENT, INTERCONNECTING PLUMBING, PERMITS, FEES INTERCONNECTING DUCT WORK FROM EQUIPMENT TO BUILDING HVAC SYSTEMS, HEAT TAPE, INSULATION.
- ALWAYS VERIFY SCALE WITH DIMENSIONS GIVEN.



1 CONDIMENT/TRASH COUNTER PLAN
1/4" = 1'-0"



EQUIPMENT SCHEDULE			
ITEM NO	QTY	EQUIPMENT CATEGORY	EQUIPMENT REMARKS
1	1	WASHER & DRYER	NIKEC - BY OTHERS
2	1	WIRE SHELVING - UTILITY	
3	1	MOP SINK W/ FAUCET	NIKEC - BY P.C.
4	1	MOP HOLDER	NIKEC - BY P.C.
5	1	OFFICE FURNITURE	NIKEC - BY OTHERS
6	LOT	LOCKERS	
7	LOT	TRACK SHELVING SYSTEM	
8	1	WIRE SHELVING	
9	1	CAN RACK	
10	-	- SPARE NUMBER -	
11	-	- SPARE NUMBER -	
12	-	- SPARE NUMBER -	
13	1	HAND SINK	
13A	1	HAND SINK	
13B	2	HAND SINK	
13C	2	HAND SINK	
14	1	CABINET, HOLDING/PROOFING	
15	1	EXHAUST HOOD	
15A	2	EXHAUST FAN	
15B	1	MAKE UP AIR UNIT	
15C	1	CONDENSING UNIT	
16	3	COMBI OVEN, DBL	
16A	3	WATER FILTRATION SYSTEM	
17	-	- SPARE NUMBER -	
18	-	- SPARE NUMBER -	
19	-	- SPARE NUMBER -	
20	1	PREP TABLE W/ SINKS & OVERSHELF	
21	1	MICROWAVE OVEN	
22	1	HOT WATER DISPENSER	
23	1	CART, UTILITY	
24	6	WIRE SHELVING	
25	1	WALK-IN COOLER/FREEZER	
26	1	FREEZER EVAP COIL	
26A	1	FREEZER CONDENSING UNIT	
27	1	COOLER EVAP COIL	
27A	1	COOLER CONDENSING UNIT	
28	-	- SPARE NUMBER -	
29	-	- SPARE NUMBER -	
30	10	WIRE SHELVING	
30A	1	DUNNAGE RACK	
31	10	WIRE SHELVING	
31A	1	DUNNAGE RACK	
32	-	- SPARE NUMBER -	
33	13	NESTING PAN RACK	
34	1	WORK COUNTER W/SINKS	
35	1	PLANETARY MIXER	
36	1	WORK COUNTER W/SINK	
37	-	- SPARE NUMBER -	
38	-	- SPARE NUMBER -	
39	-	- SPARE NUMBER -	
40	4	WIRE SHELVING	
41	1	4 COMPARTMENT SINK	
41A	1	PRE-RINSE FAUCET	
42	1	DISPOSER	
43	1	EYEWASH STATION	
44	1	HOSE REEL W/ RECESSED CABINET	
45	1	SOLEID DISHTABLE	
46	1	TROUGH DISPOSAL SYSTEM	
47	1	DISHMACHINE W/ BLOWER	
47A	2	PANT LEGS	NIKEC - BY M.C.
48	1	CLEAN DISHTABLE	
49	1	FLOOR TROUGH	
50	3	DOLLY DISH RACK	

EQUIPMENT SCHEDULE			
ITEM NO	QTY	EQUIPMENT CATEGORY	EQUIPMENT REMARKS
51	-	- SPARE NUMBER -	
52	-	- SPARE NUMBER -	
53	-	- SPARE NUMBER -	
54	1	ROLL-THRU HEATED CABINET	
55	1	WORK COUNTER W/SINK	
56	1	ROLL-THRU REFRIGERATOR	
57	1	ROLL-IN HEATED CABINET	
58	1	ROLL-IN REFRIGERATOR	
59	1	WORK COUNTER W/SINK	
60	1	RAPID COOK OVEN	
61	1	UNDERCOUNTER REFRIGERATOR	
62	1	ROLL-THRU HEATED CABINET	
63	1	REFRIGERATED MERCHANDISER	
64	1	WIRE SHELVING	
65	1	PASS COUNTER	
66	1	POS SYSTEM	NIKEC - BY OWNER
67	1	ESPRESSO CAPPUCCINO MACHINE	
67A	1	MILK COOLER	
67B	1	WATER FILTER	
68	-	- SPARE NUMBER -	
69	-	- SPARE NUMBER -	
70	-	- SPARE NUMBER -	
71	7	FLATWARE & TRAY CART	
72	1	HOT/COLD COUNTER	
73	1	SNEEZE GUARD	
74	1	HOT FOOD WELL	
75	1	COLD FOOD WELL	
76	1	HOT/COLD COUNTER	
77	1	SNEEZE GUARD	
78	1	HOT FOOD WELL	
79	1	COLD FOOD WELL	
80	1	HOT/COLD COUNTER	
81	1	SNEEZE GUARD	
81A	1	SNEEZE GUARD	
82	1	HOT FOOD WELL	
83	1	COLD FOOD WELL	
84	1	COLD COUNTER	
85	1	SNEEZE GUARD	
86	1	COLD FOOD WELL	
87	1	HOT/COLD COUNTER	
88	1	SNEEZE GUARD	
89	1	HOT/COLD FOOD WELL	
90	1	COLD COUNTER	
91	1	SNEEZE GUARD	
92	1	COLD FOOD WELL	
93	1	HEATED DISPLAY MERCHANDISER	
94	-	- SPARE NUMBER -	
95	-	- SPARE NUMBER -	
96	2	REFRIGERATED SELF-SERVICE CASE	
97	1	REFRIGERATED SELF-SERVICE CASE	
98	4	MILK COOLER	NIKEC - BY OWNERS VENDOR
99	2	WIRE SHELVING	
100	2	CASHER STATION	
101	1	CASHER STATION	
102	4	POS SYSTEM	NIKEC - BY OWNER
103	-	- SPARE NUMBER -	
104	-	- SPARE NUMBER -	
105	2	MOBILE CONDIMENT COUNTER	
105.1	4	CONDIMENT DISPENSER	
106	1	TRASH COUNTER	
107	1	TRASH COUNTER	
108	1	MICROWAVE COUNTER	
108A	1	MICROWAVE OVEN	

2 EQUIPMENT PLAN
1/4" = 1'-0"



B:\30101\20102\01 Lee's Summit Middle School 4\13-20102-00_Lee's Summit Middle School 4_ARCH\2020.rvt
2/26/2020 10:20:42 AM

B:\361015\361015.dwg Lee's Summit Middle School 4/15/2010 10:02:00 Lee's Summit Middle School.dwg ARCT_2010.rvt
 8/20/2010 10:20:42 AM



PROVIDE SUPPORT ABOVE DROP CEILING FOR EXHAUST VENTILATOR. CUTOUTS IN FINISHED CEILING FOR VENT DUCT RISER. PANT LEGS BY M.C., SEE DETAIL 4/FS-103

BLOCK OUT FOR FLOOR TROUGH.

FLOOR TO BE TRANSIT LEVEL & TROWEL SMOOTH.

SEE MECHANICAL NOTE 7 FS-108

FLOOR TO BE TRANSIT LEVEL & TROWEL SMOOTH.

SEE MECHANICAL NOTE 7 FS108

FLOOR TO BE TRANSIT LEVEL & TROWEL SMOOTH.

SEE MECHANICAL NOTE 7 FS-108

PREP KITCHEN G108

DELETE FINISHED CEILING ABOVE WALK-IN. NO OBSTRUCTIONS FROM FINISHED FLOOR TO 9'-6" AFF.

FLOOR TO BE TRANSIT LEVEL & TROWEL SMOOTH.

BUILDING STORAGE G112

RESTROOM G108D

UTILITY G108C

BLDG MANAGER G109

OFFICE G108B

SERVERY G103

BUILDING STORAGE G113

DN

CEILING MATERIAL TO COMPLY W/ NFPA96's 18" CLEARANCE TO COMBUSTIBLE MATERIALS.

DELETE FINISHED CEILING ABOVE EXHAUST HOOD. PROVIDE SUPPORT ABOVE CEILING FOR EXHAUST VENTILATOR.

SEE ARCHITECTS PLANS FOR DETAILS.

SEE ARCHITECTS PLANS FOR DETAILS.

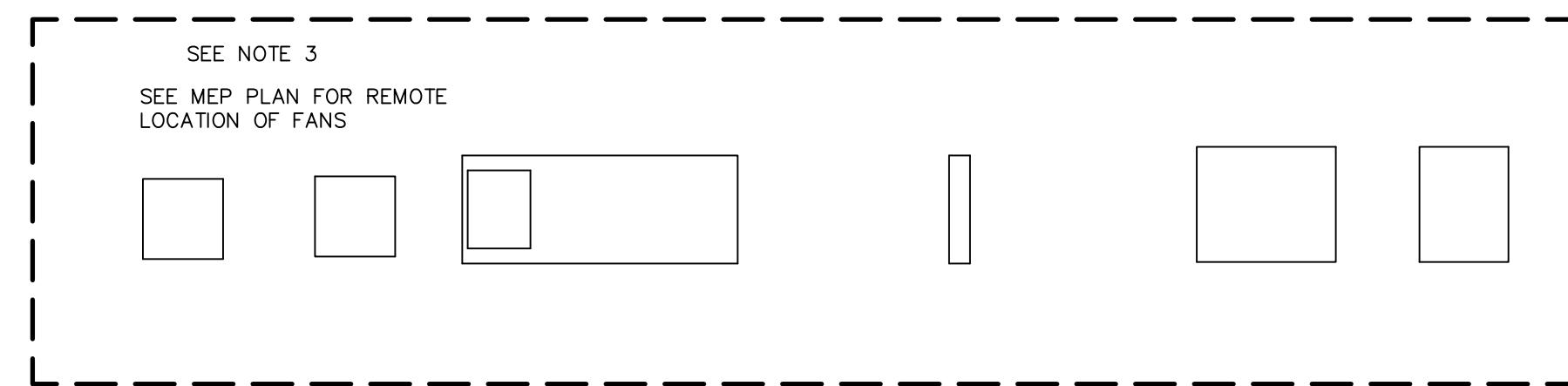
SEE ARCHITECTS PLANS FOR DETAILS.

SEE MECHANICAL NOTE 7 FS-108

SEE SPECIAL CONDITIONS NOTE 7.

SEE SPECIAL CONDITIONS NOTE 7.

SEE SPECIAL CONDITIONS NOTE 7.

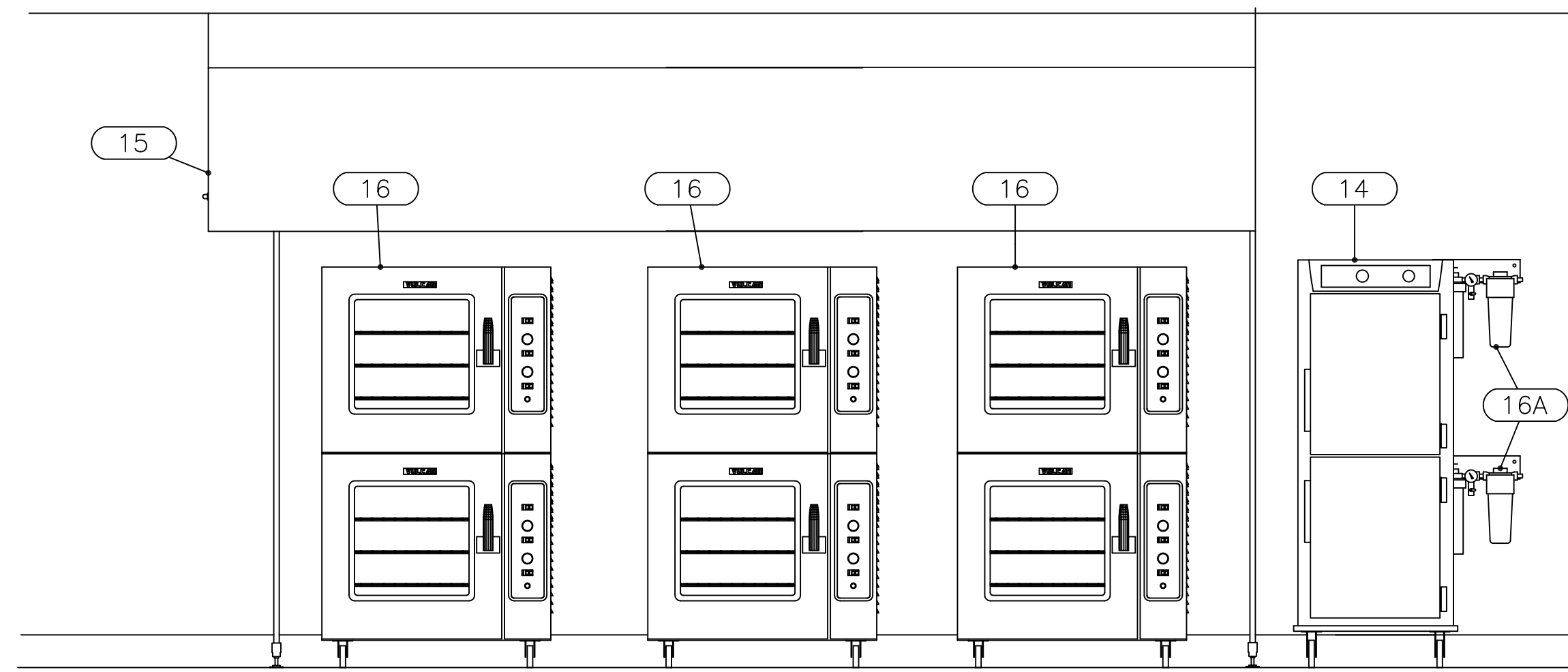


SPECIAL CONDITIONS NOTES

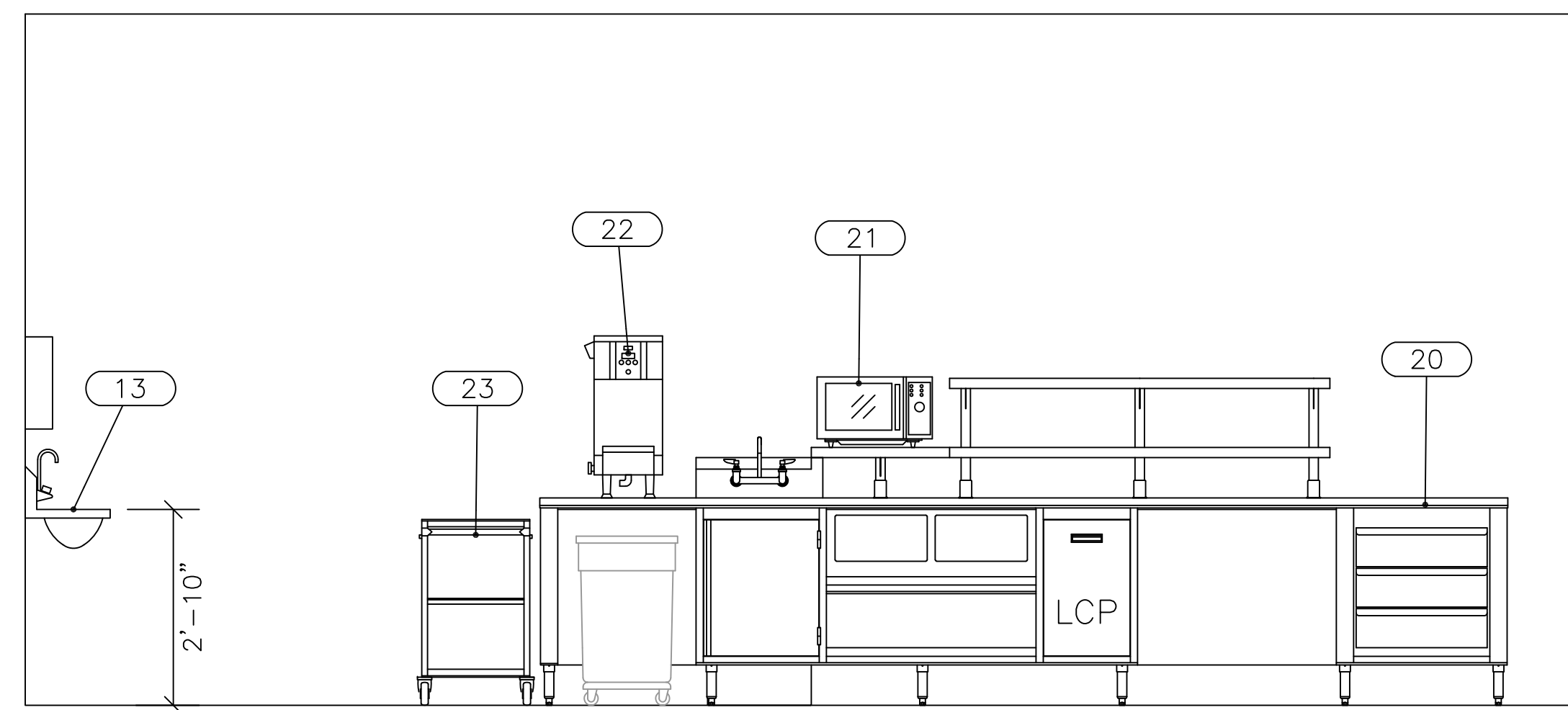
1. BY MECHANICAL/ELECTRICAL CONTRACTOR.
2. SEE MECHANICAL/ELECTRICAL ENGINEER'S DRAWINGS AND SPECIFICATIONS.
3. SEE ARCHITECTURAL PLANS FOR DETAILS.
4. CORNER AND END WALL GUARDS BY OTHERS. CORNER GUARDS ARE NOT BY SECT.114000.
5. SEE MANUFACTURER'S DRAWINGS.
6. ROOF CURBS AND ALL PENETRATIONS FOR REFRIGERATION UNITS AND UTILITIES ARE NOT BY SECT.114000 CONTRACTOR. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. LOW VELOCITY PERFORATED SUPPLY DIFFUSERS ARE REQUIRED IF DIFFUSERS ARE LOCATED NEAR ITEM(S) # 96 & 97, FOUR-WAY SUPPLY DIFFUSERS SHOULD NOT BE INSTALLED WITH IN 15' RECOMMENDED SUPPLY, DISCHARGE AIR VELOCITY SHOULD NOT EXCEED 150 FRM.

LEGEND - SPECIAL CONDITIONS	
	TRANSIT LEVEL FLOOR (SEE MANUFACTURE DETAILS)
	DEPRESSED FLOOR (SEE MANUFACTURE DETAILS)
	CEILING TO MEET NFPA96
	CURB/CHANNEL BASE (SEE MANUFACTURE DETAILS)
S/ST K.P.	STAINLESS STEEL KICKPLATE
	END WALL GUARD (DBL)-"EG" (N.I.K.E.C.)
	CORNER WALL GUARD (SINGLE)-"CG" (N.I.K.E.C.)

SPECIAL CONDITIONS PLAN
 1/4" = 1'-0"

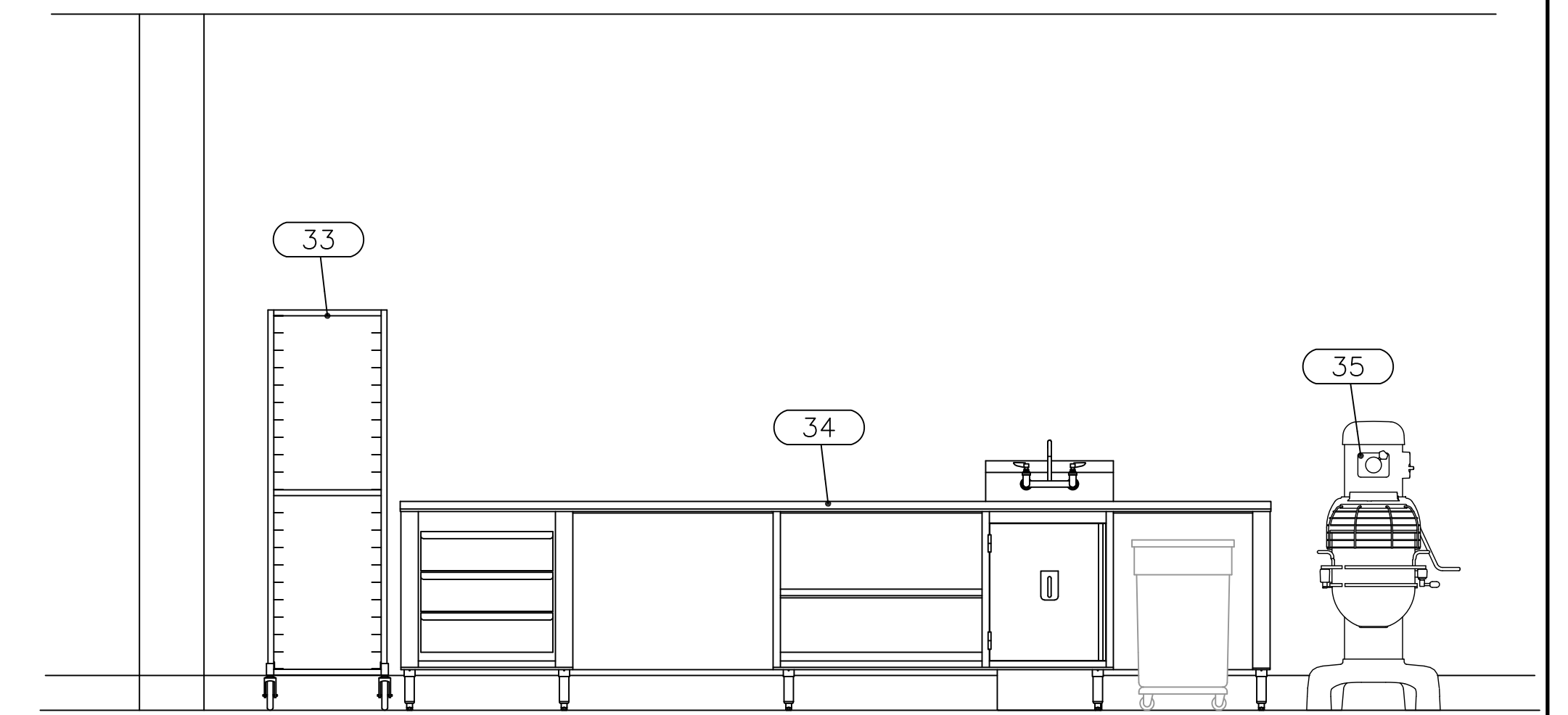


1 KITCHEN - COOKLINE



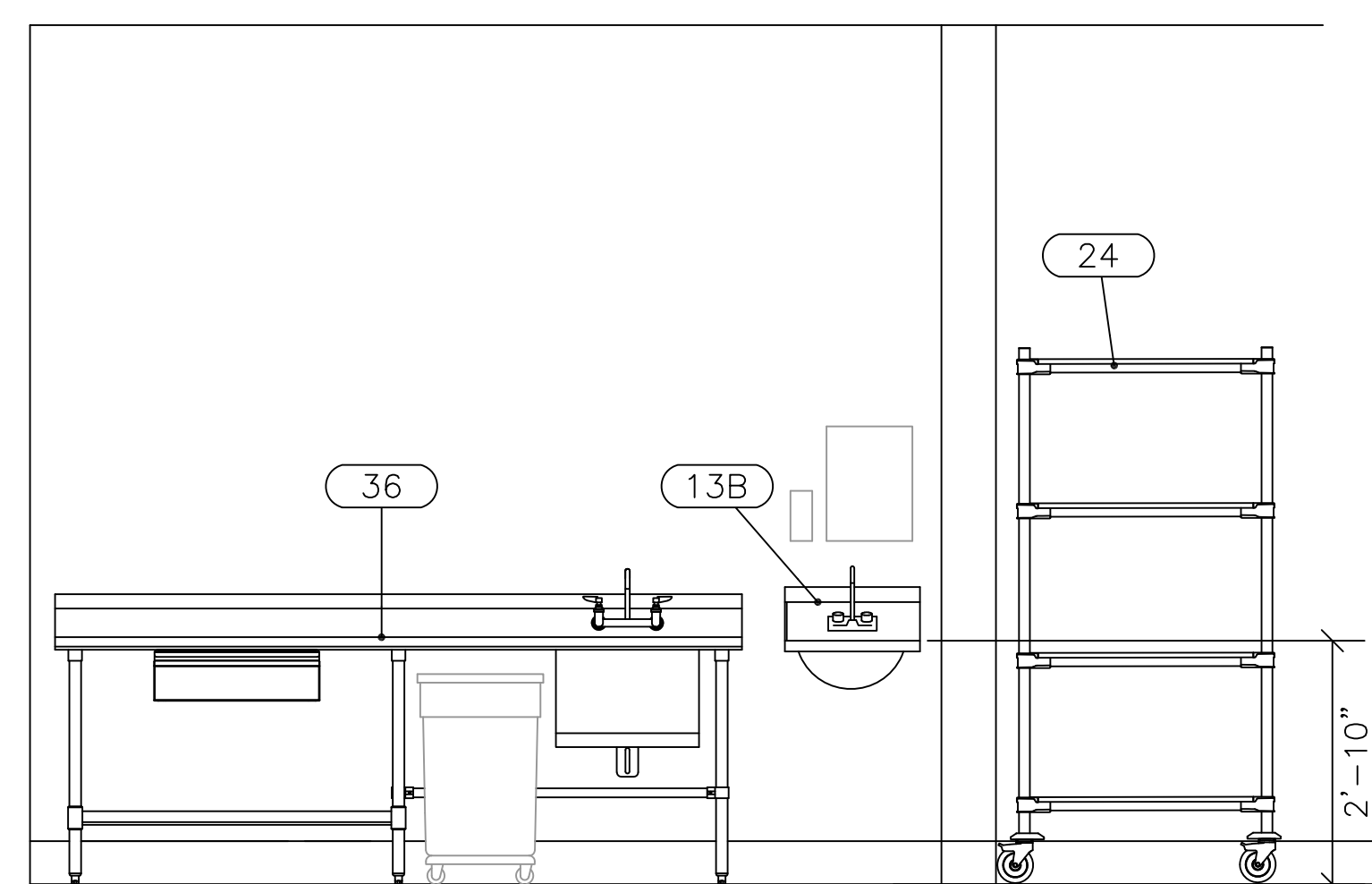
SOAP AND PAPER TOWEL DISPENSER BY OTHERS

2 KITCHEN - PREP



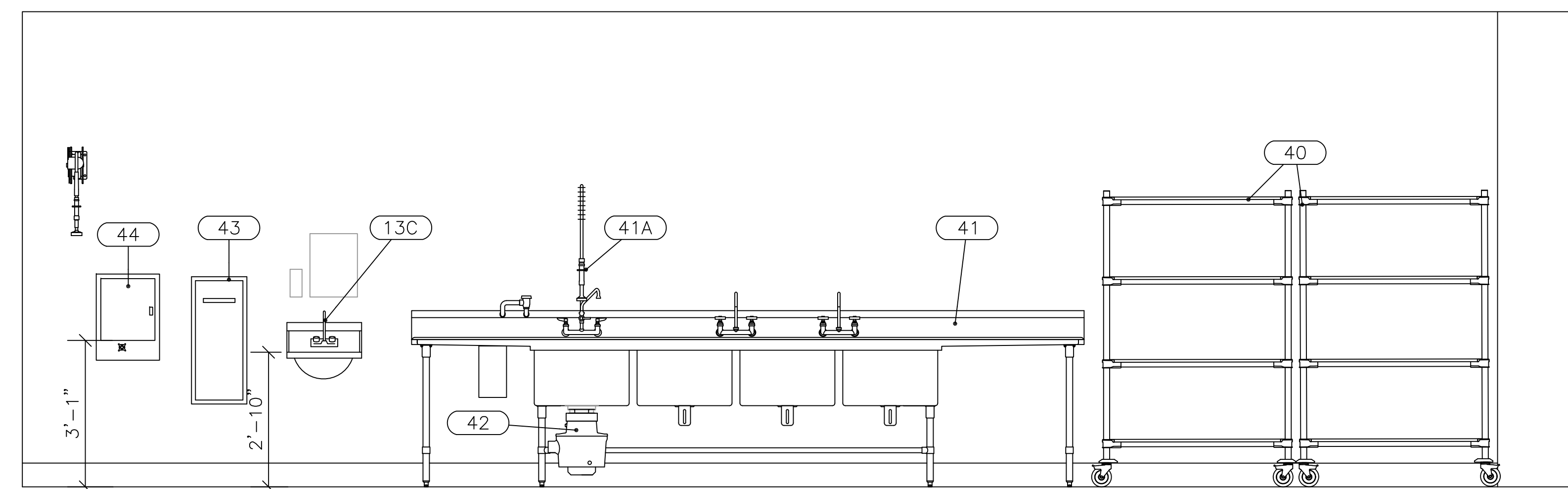
LCP ON OPPOSITE SIDE

3 KITCHEN - PREP



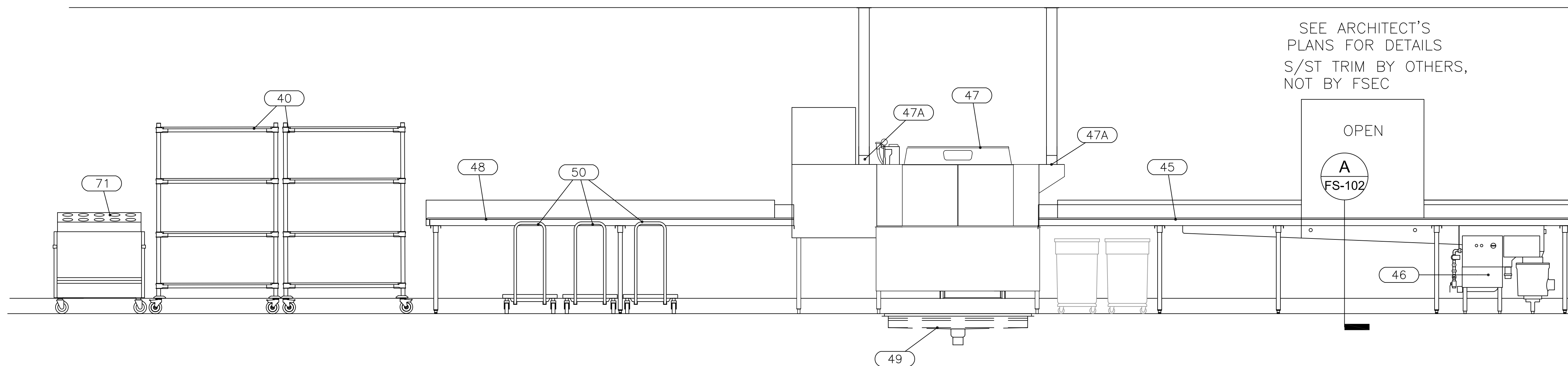
SOAP AND PAPER TOWEL DISPENSER BY OTHERS

4 KITCHEN - SPECIAL DIETARY



SOAP AND PAPER TOWEL DISPENSER BY OTHERS

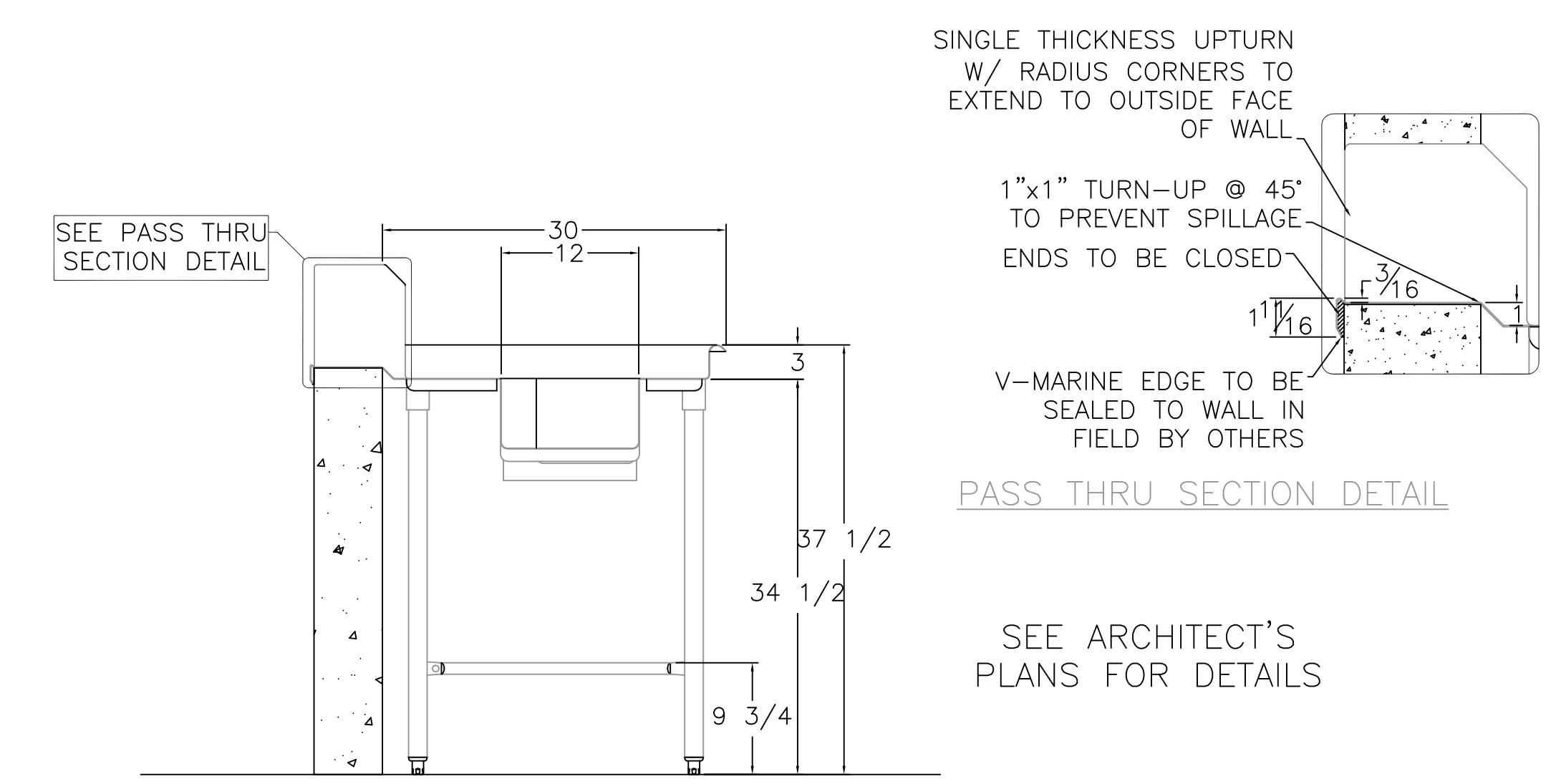
5 KITCHEN - WAREWASHING



SEE ARCHITECT'S PLANS FOR DETAILS S/ST TRIM BY OTHERS, NOT BY FSEC

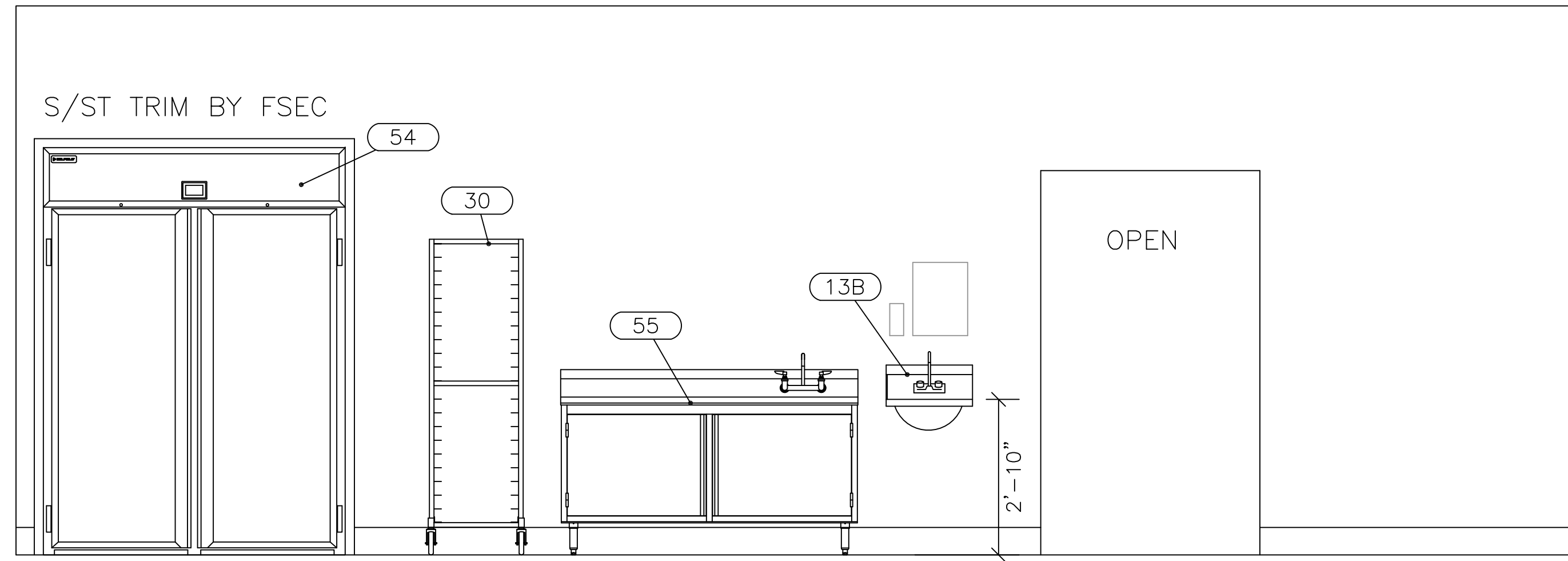
OPEN
A
FS-102

6 KITCHEN - WAREWASHING



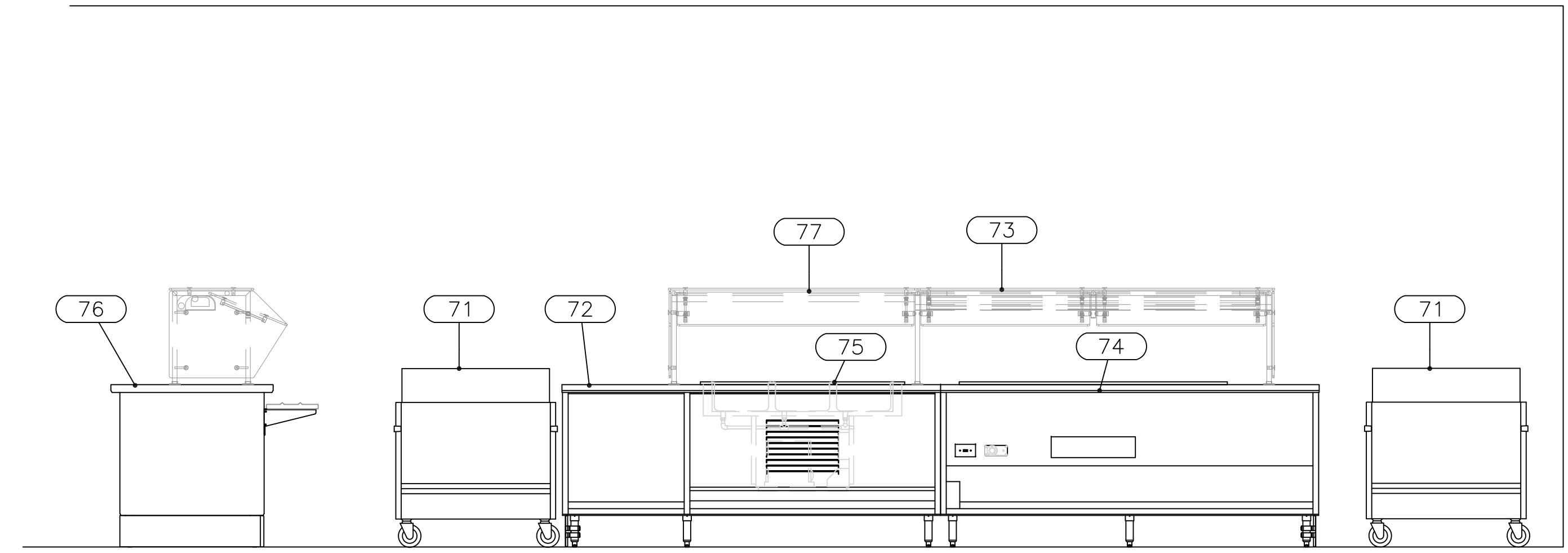
A DISH WINDOW CUT DETAIL

ELEVATIONS
1/2" = 1'-0"

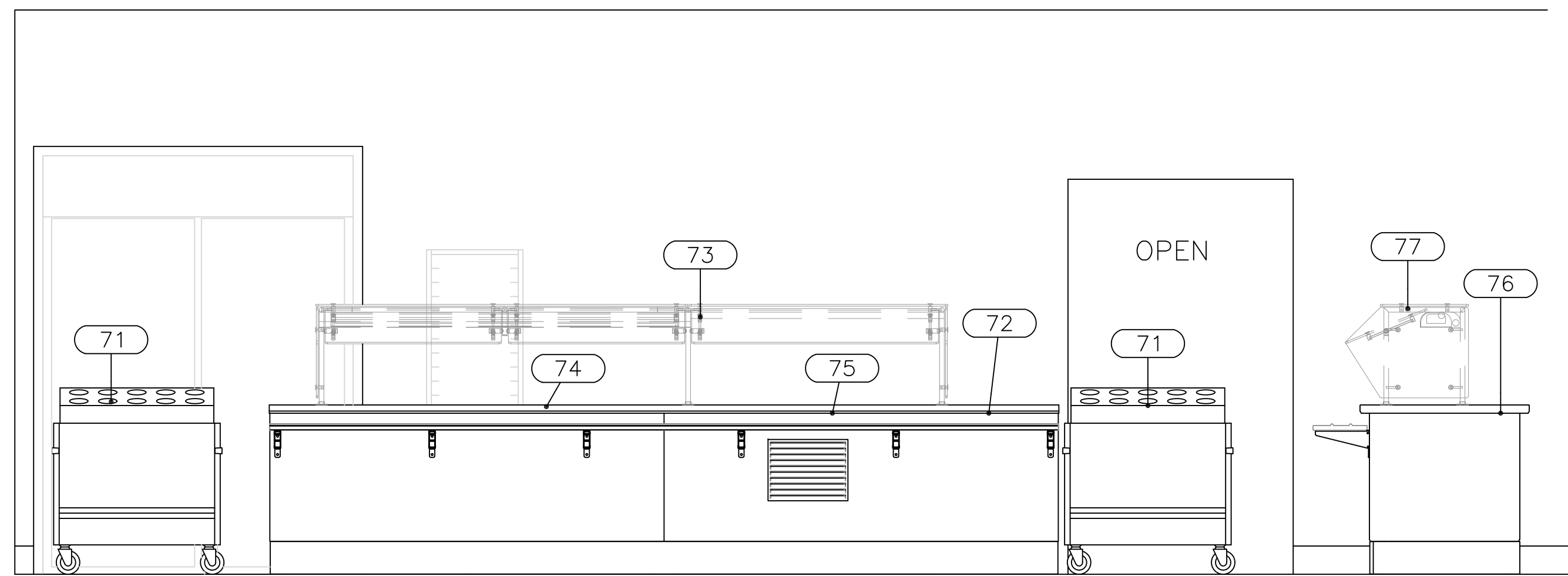


SOAP AND PAPER TOWEL
DISPENSER BY OTHERS

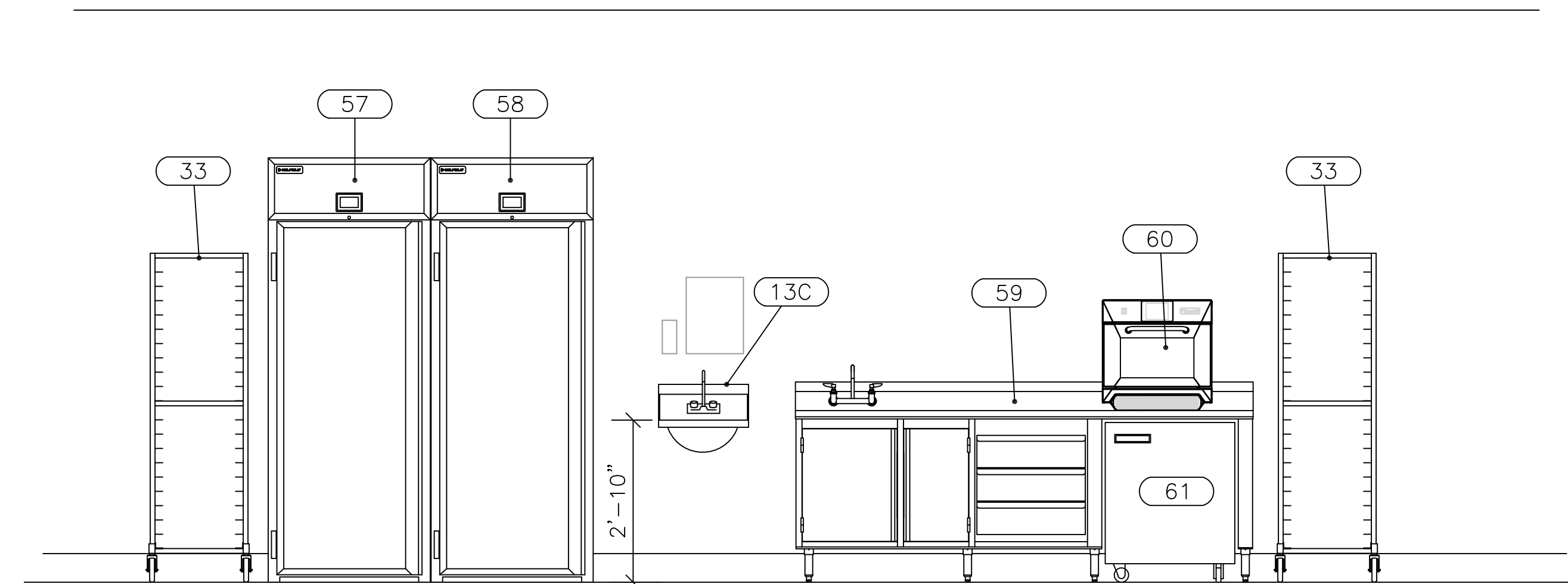
1 SERVERY - BACKLINE



2 SERVERY

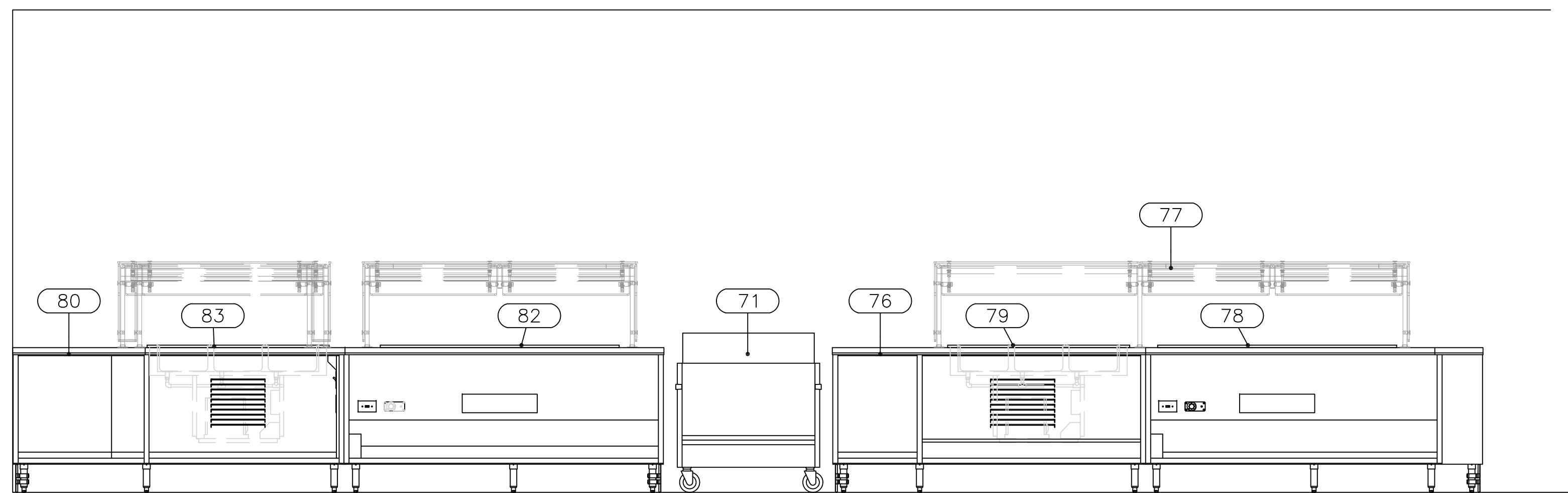


3 SERVERY



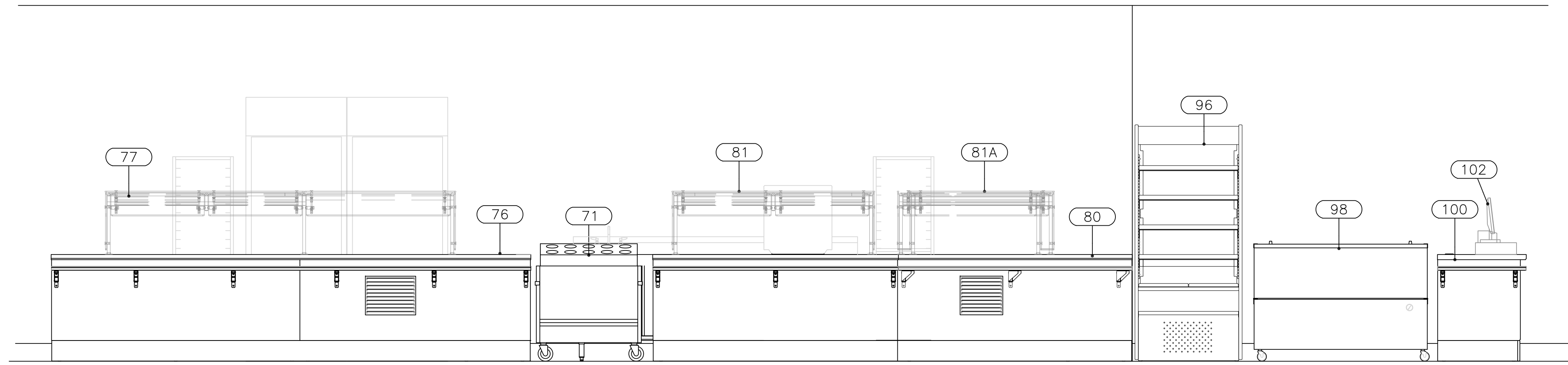
SOAP AND PAPER TOWEL
DISPENSER BY OTHERS

4 SERVERY - SPECIAL DIETARY BACKLINE

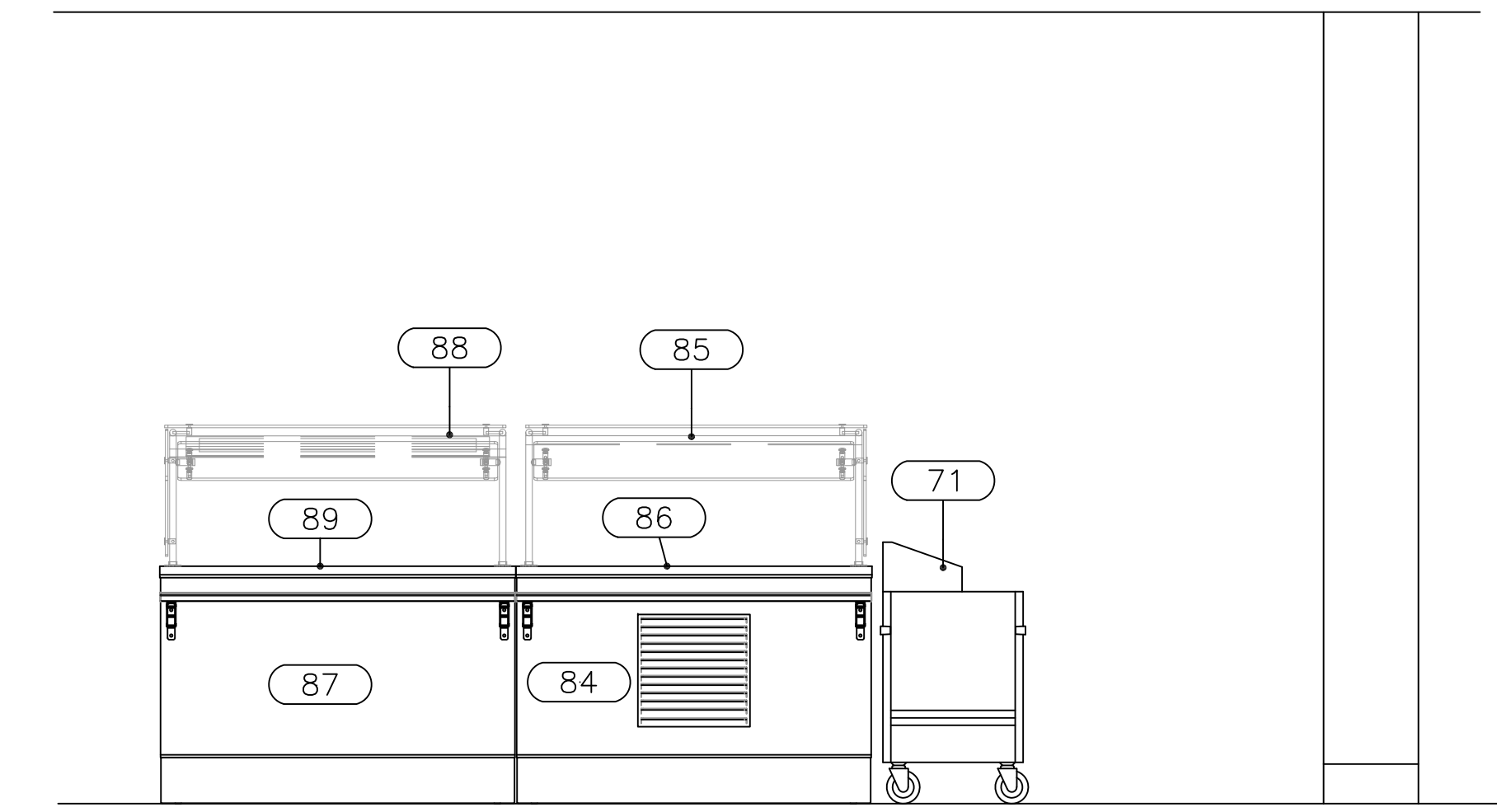


5 SERVERY - SPECIAL DIETARY

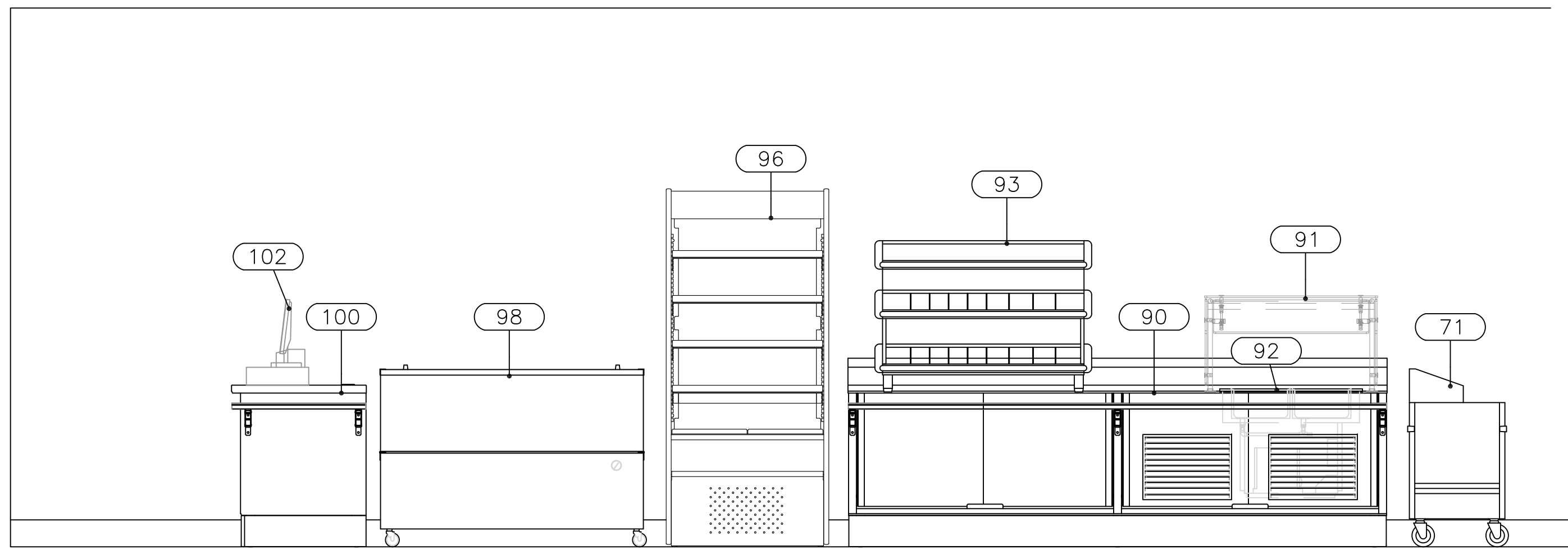
ELEVATIONS
1/2" = 1'-0"



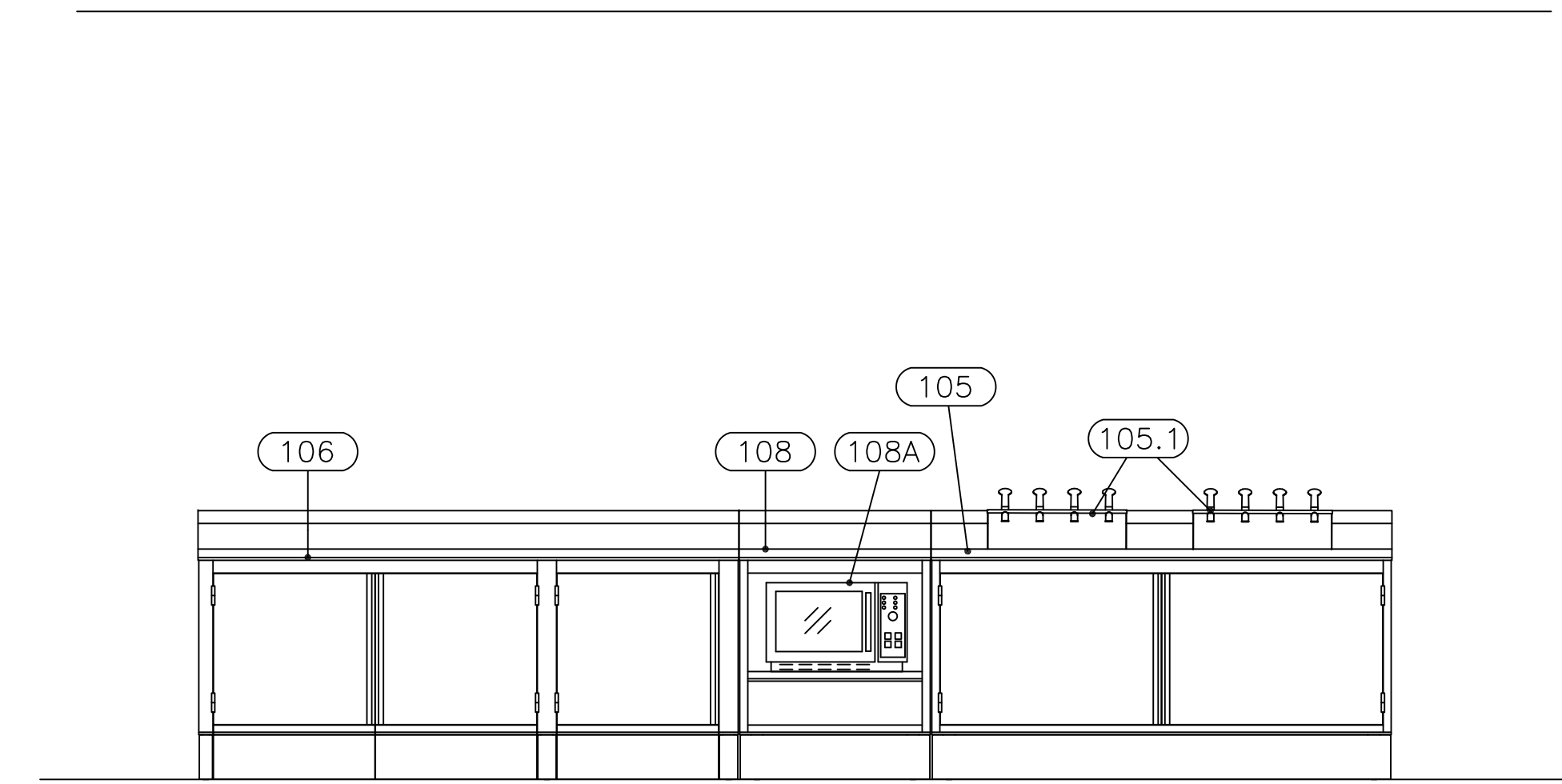
1 SERVERY- SPECIAL DIETARY AND POS COUNTER



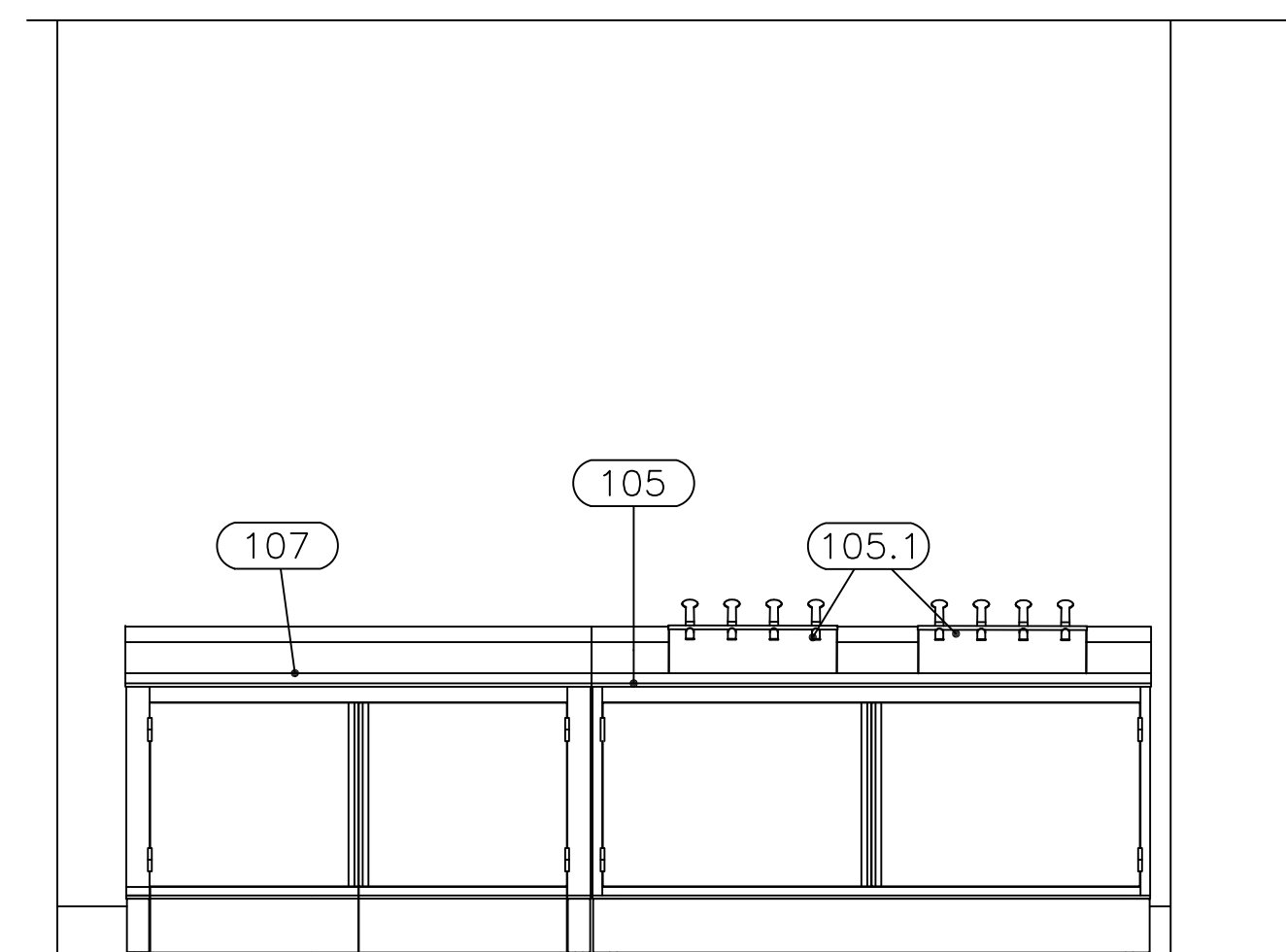
2 SERVERY- SALAD BAR



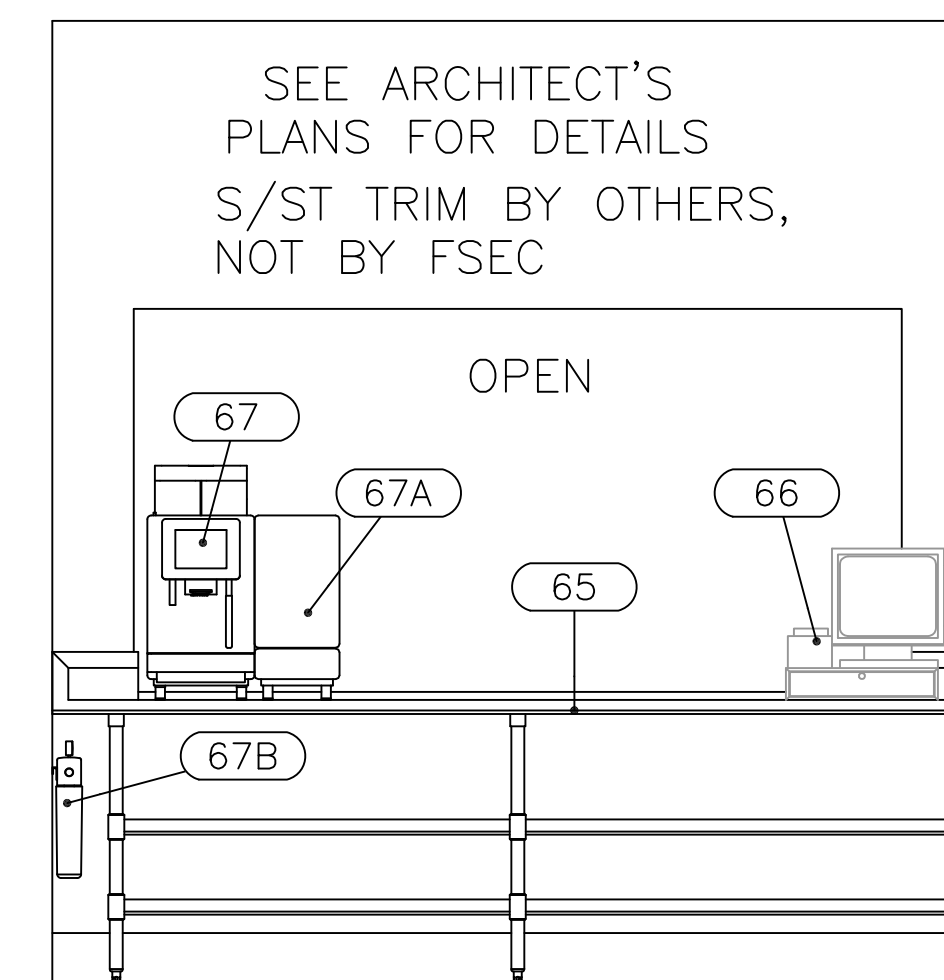
3 SERVERY- GRAB-N-GO COUNTER



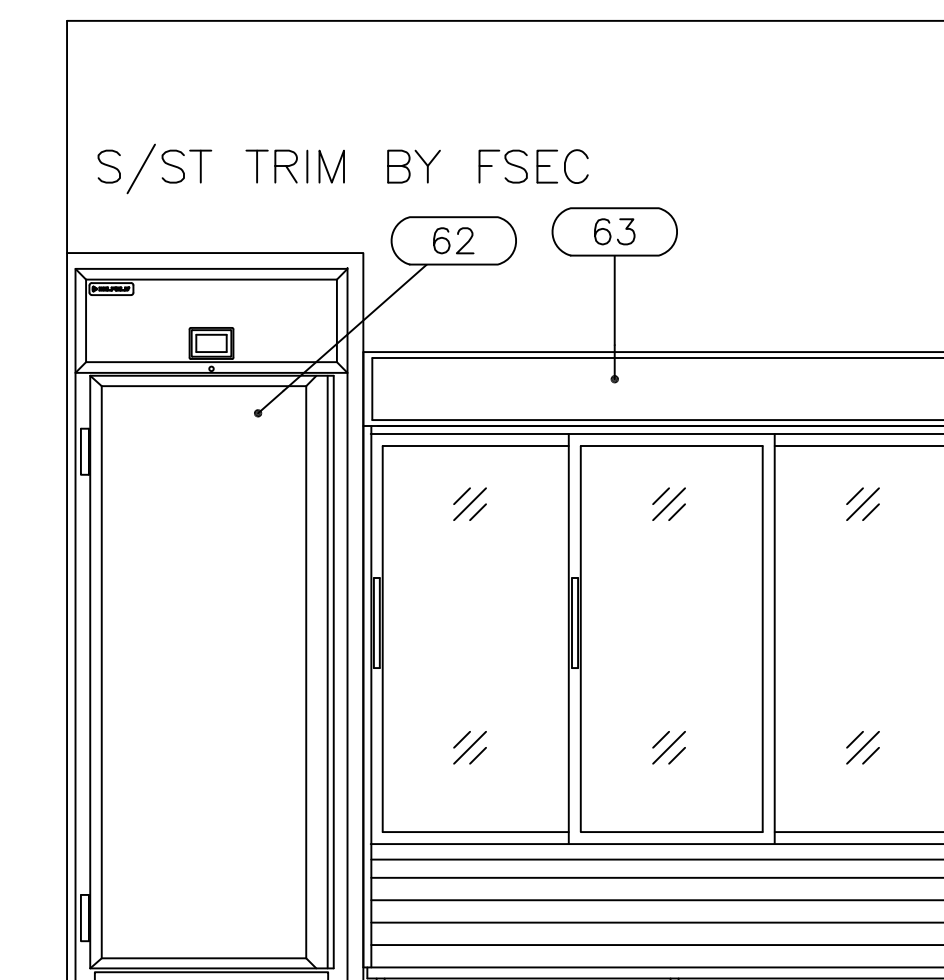
4 COMMONS- CONDIMENT / TRASH COUNTER



5 COMMONS- CONDIMENT / TRASH COUNTER

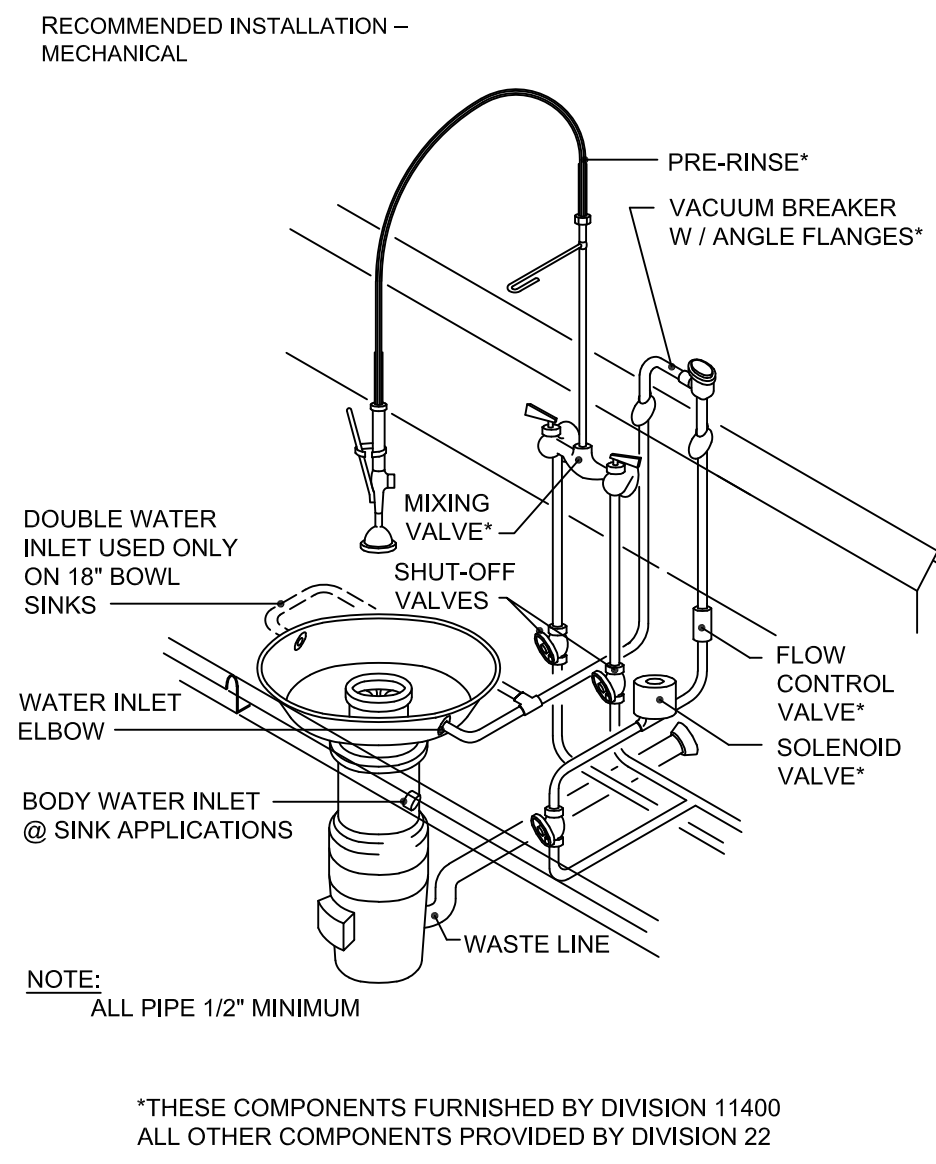


6 A LA CARTE

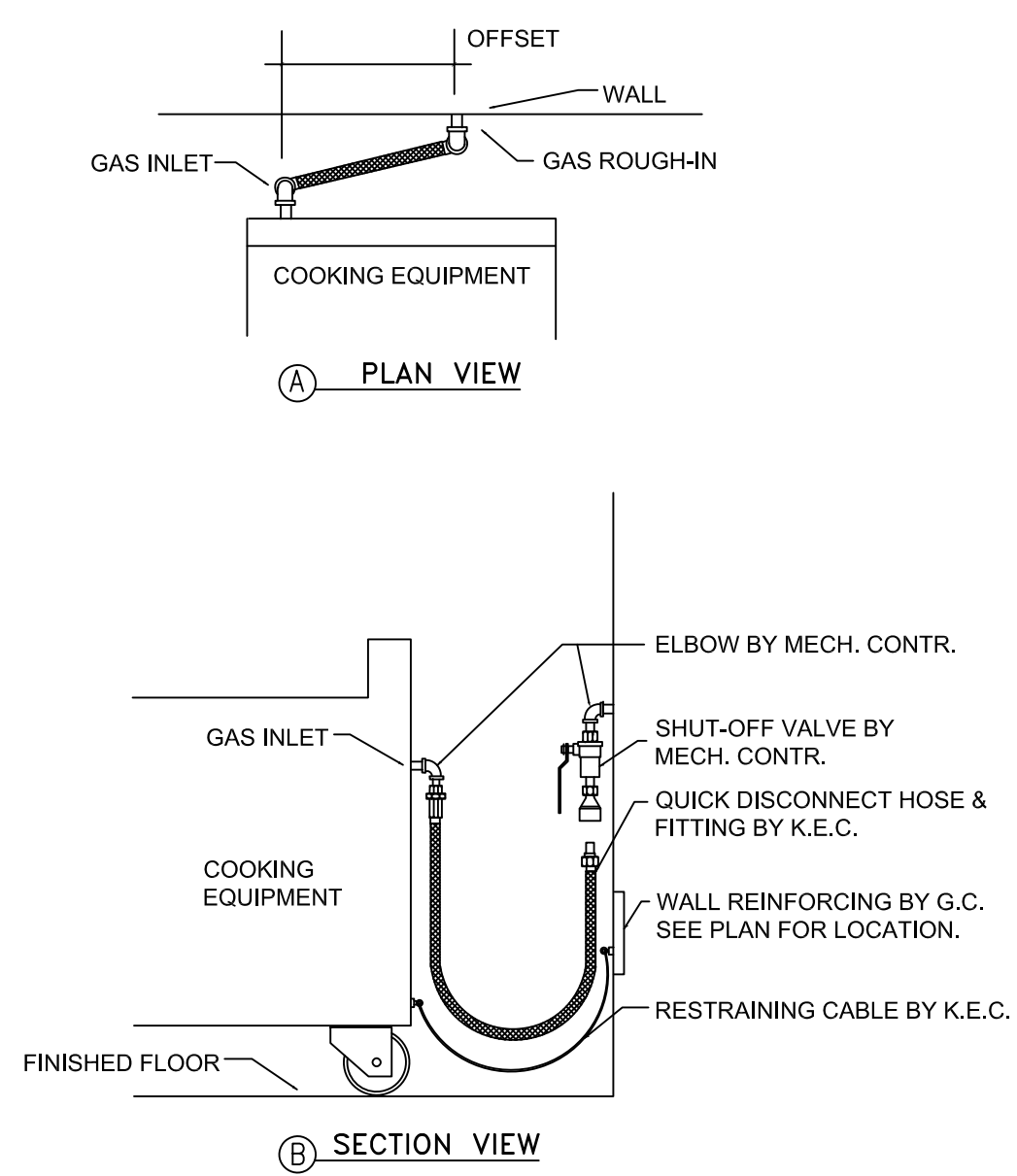


7 A LA CARTE

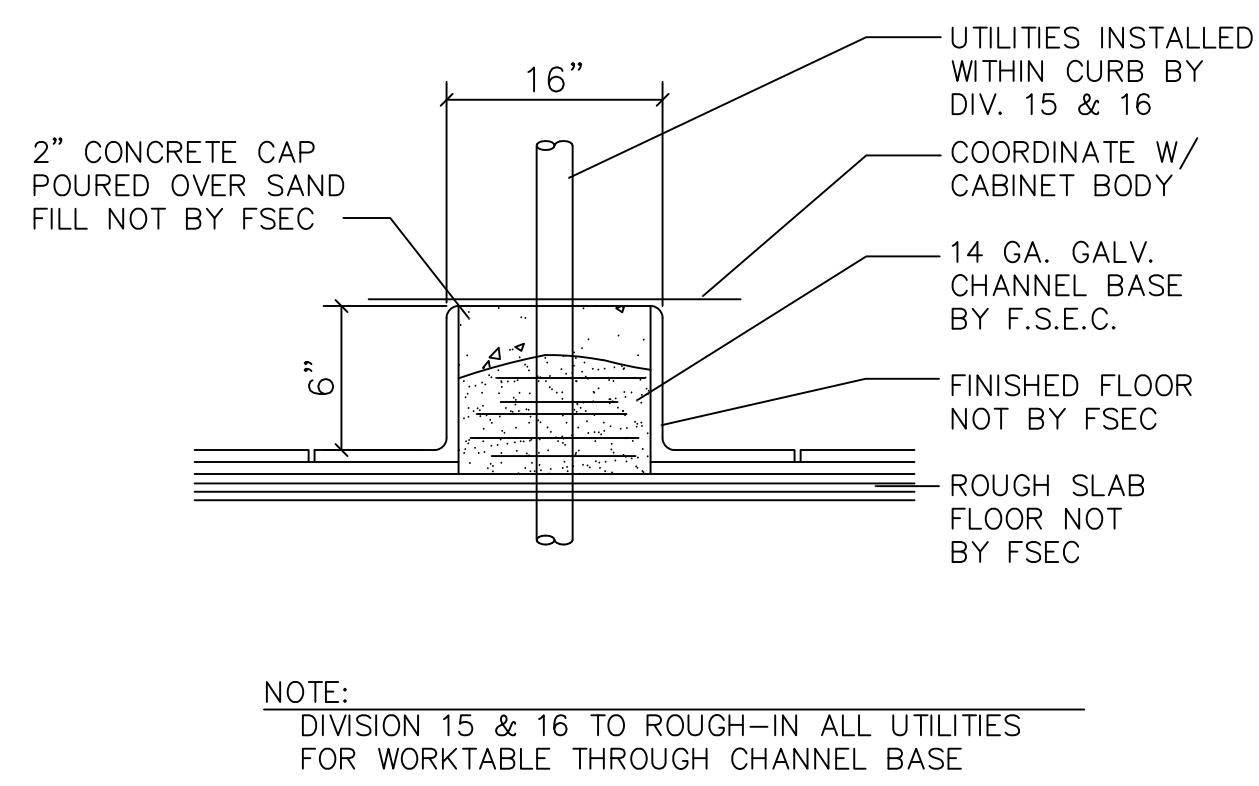
ELEVATIONS
1/2" = 1'-0"



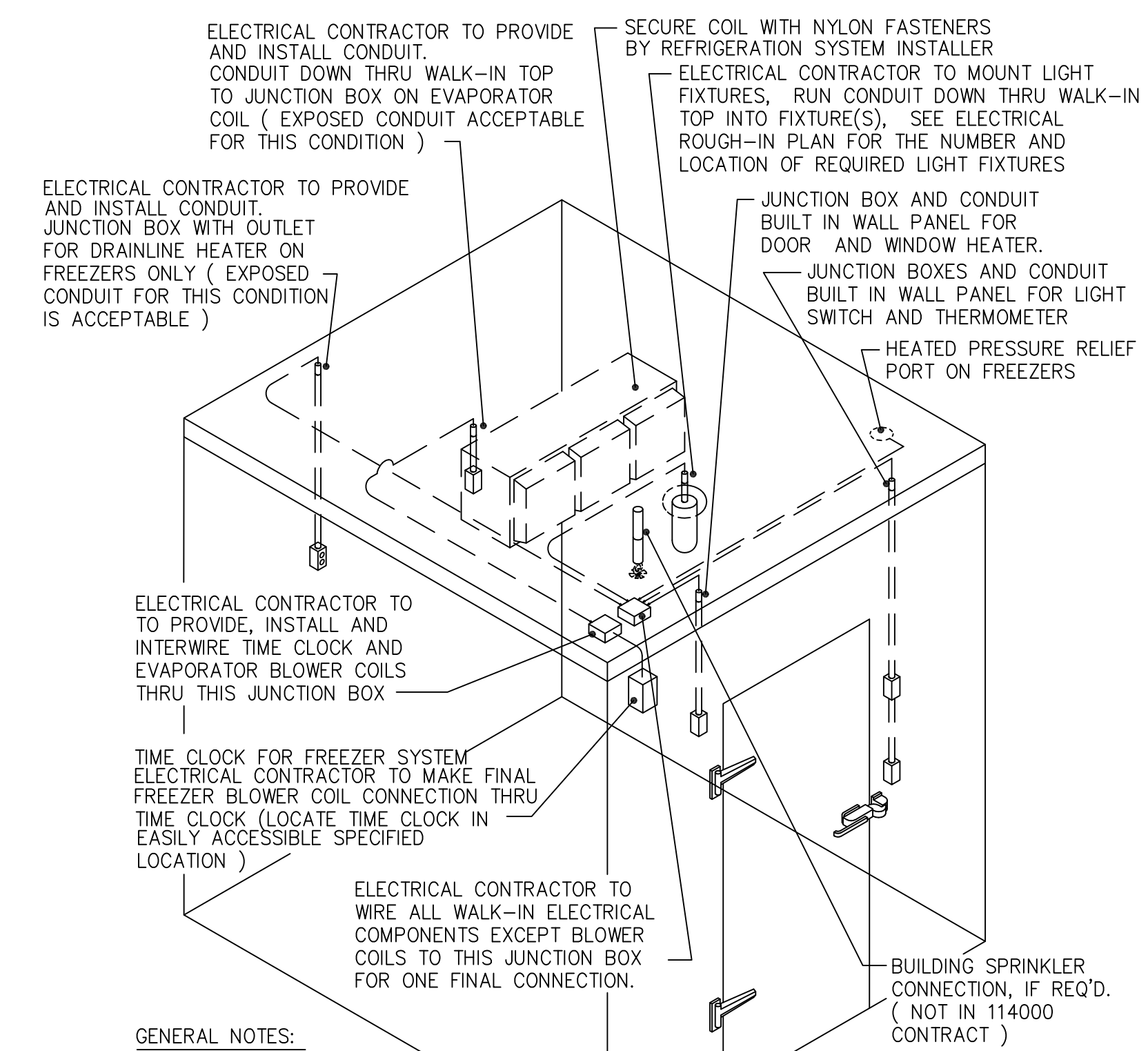
1 DISPOSER DETAIL
NOT TO SCALE



2 QUICK DISCONNECT DETAIL
NOT TO SCALE



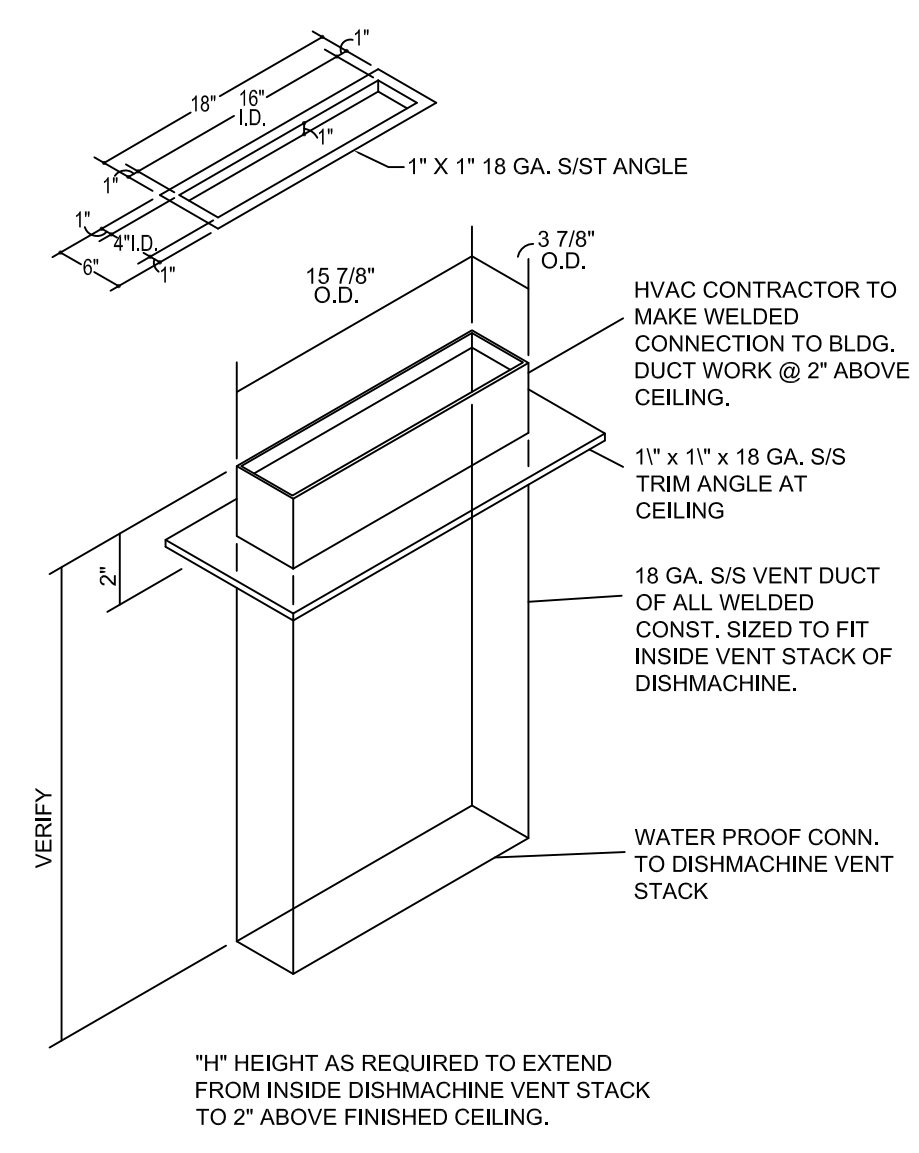
3 UTILITY CURB DETAIL
NOT TO SCALE



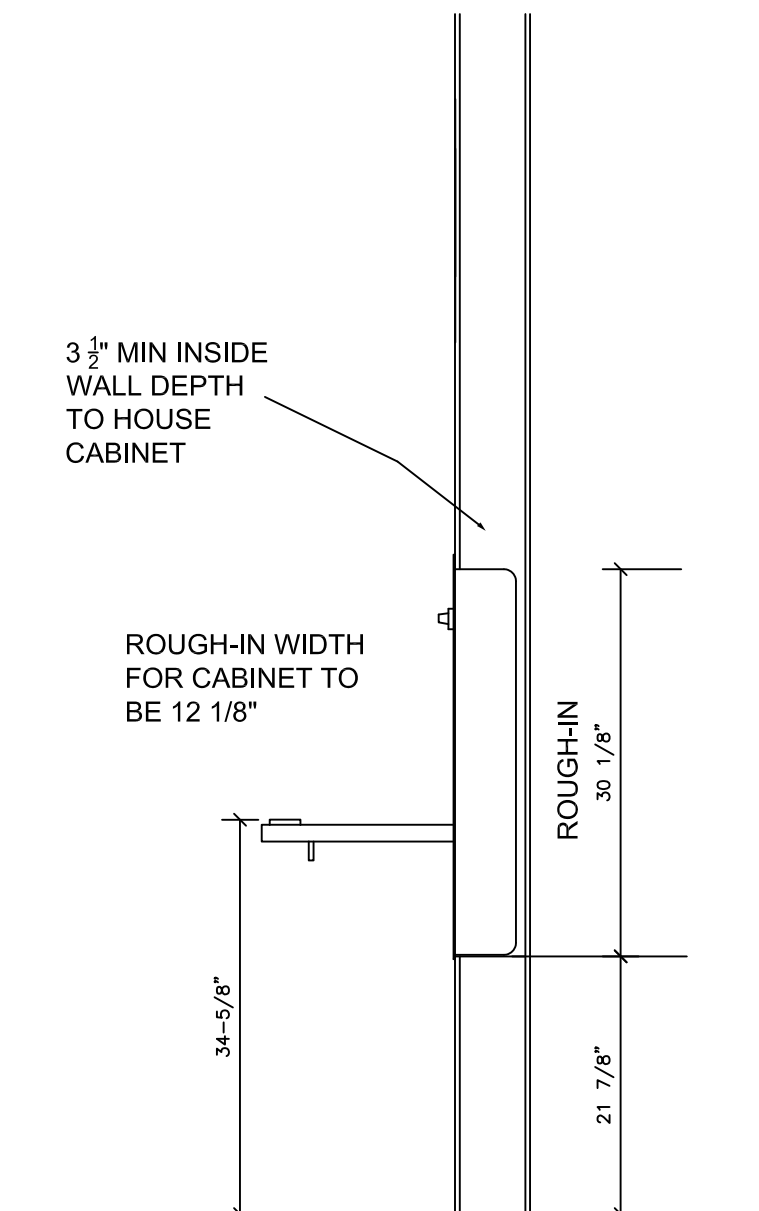
- GENERAL NOTES:
- TRANSIT LEVEL FLOOR/PIT BY GENERAL CONTRACTOR.
 - ALL INTERCONNECTING CONDUIT TO BE RUN ABOVE WALK-IN OR BUILT-IN THE WALL PANELS. EXPOSED CONDUIT INSIDE WALK-IN WILL NOT BE ACCEPTABLE EXCEPT FOR THE CONDITIONS SHOWN AND NOTED IN THE ABOVE ILLUSTRATION BY E.C.
 - SEAL ALL ELECTRICAL PENETRATIONS THRU WALK-IN CEILING, WALL PANELS AND INSIDE ELECTRICAL CONDUIT OUTSIDE AND INSIDE WALK-IN WITH DOW CORNING #999A SILICONE GLAZING SEALANT, BY E.C.
 - ELECT. CONTR. TO PROVIDE AND INSTALL ALL CONDUIT AND WIRING FOR CONTROLS, LIGHT(S), DOOR HEATER(S), ALARM WIRING, EVAP. COIL(S), HEATED VENTS, COMPRESSORS DRAINLINE HEAT TAPE PLUG, DEFROST HEATERS, AND ETC. FOR WALK-IN COOLER(S), FREEZER(S).
 - SPRINKLER CONTRACTOR TO PROVIDE HOLE FOR SPRINKLER HEAD (IF REQUIRED). AFTER INSTALLATION SEAL WITH DOW CORNING #999A SILICONE GLAZING SEALANT, BY SPRINKLER CONTRACTOR.
 - ELECTRICAL CONTRACTOR TO PROVIDE 1/2" OC PVC CONDUIT AT ALL PENETRATIONS THRU INSULATED PANELS. SEAL WITH DOW CORNING #999A SILICONE SEALANT, BY ELECTRICAL CONTRACTOR.
 - DRAIN LINES: PLUMBING CONTRACTOR DRAINS SHALL BE TRAPPED OUTSIDE OF WALK-IN FREEZER DRAIN SHALL BE HEATED AND INSULATED TO PREVENT FREEZING. ALL PLUMBING TO BE IN ACCORDANCE WITH APPLICABLE CODES.
 - WALK-IN ROOF NOT DESIGNED FOR FOOT TRAFFIC OR STORAGE.
 - ALLOW MINIMUM 2" CLEARANCE ALL AROUND WALK-IN.
 - ALLOW MINIMUM 2" CLEARANCE ALL ABOVE WALK-IN.
 - SHEET METAL PANEL FACINGS MAY BE SUSCEPTIBLE TO STAINING DUE TO EXCESSIVE MOISTURE CREATED BY HYDRATION OF CONCRETE TYPE MATERIALS. IT IS ABSOLUTELY NECESSARY THAT EACH ROOM BE PROPERLY VENTILATED. ALSO NOTE THAT SPECIAL PRECAUTIONS MUST BE TAKEN WHEN USING MURIATIC ACID DUE TO EFFECTS HYDROCHLORIC ACID FUMES HAVE ON ALUMINUM AND STAINLESS STEEL.
 - WALK-IN INSTALLER TO PROVIDE AND ENSURE ALL FLOOR, WALL, AND CEILING JOINTS TO BE SEALED WITH DOW CORNING #999A SILICONE GLAZING SEALANT, BY WALK-IN INSTALLER.
 - INTERIOR OF CONDUIT TO BE SEALED BY E.C. UPON INSTALLATION TO PREVENT MOISTURE BUILD UP INSIDE CONDUIT LINES AND WALK-IN.
 - GENERAL CONTRACTOR TO PROVIDE ALL CURBS & ROOF WORK FOR REMOTE CONDENSERS. ALL CEILING PENETRATIONS FOR UTILITIES & REFRIGERATION LINES ARE BY GENERAL CONTRACTOR. ALL PENETRATIONS TO BE SEALED IN ACCORDANCE WITH LOCAL FIRE AND BUILDING CODES.
 - SEE DETAIL A ON THIS SHEET.

7 WALK-IN WIRING DETAIL
NOT TO SCALE

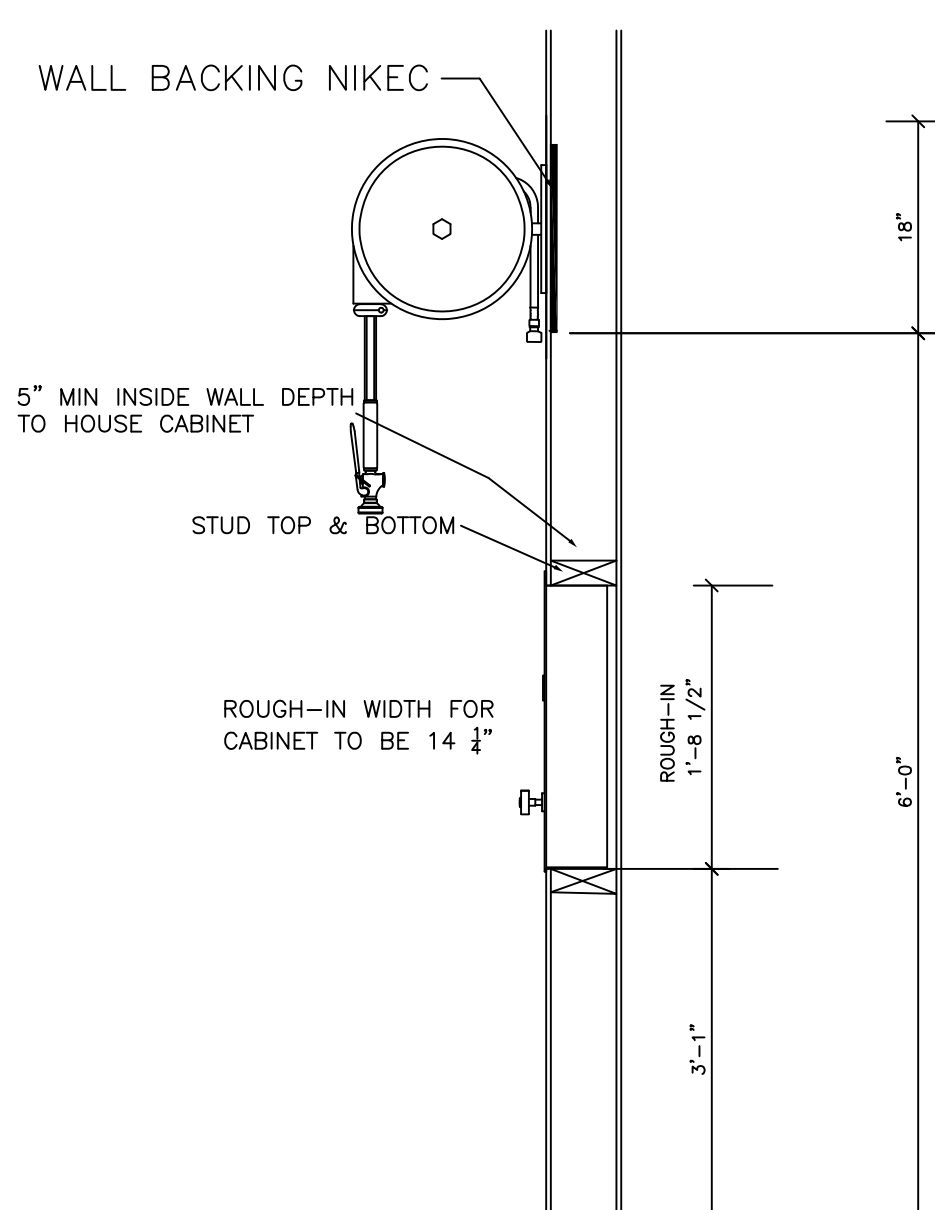
INSTALLER NOTE:
WALK-IN MUST REMAIN OPEN AND WELL VENTILATED DURING CURING PROCESS FOR CONCRETE OR TILE AND GROUT. WALK-IN SCREED MUST BE CENTERED BELOW WALL PANELS.
SEE BREAKER PLACEMENT LAYOUT.



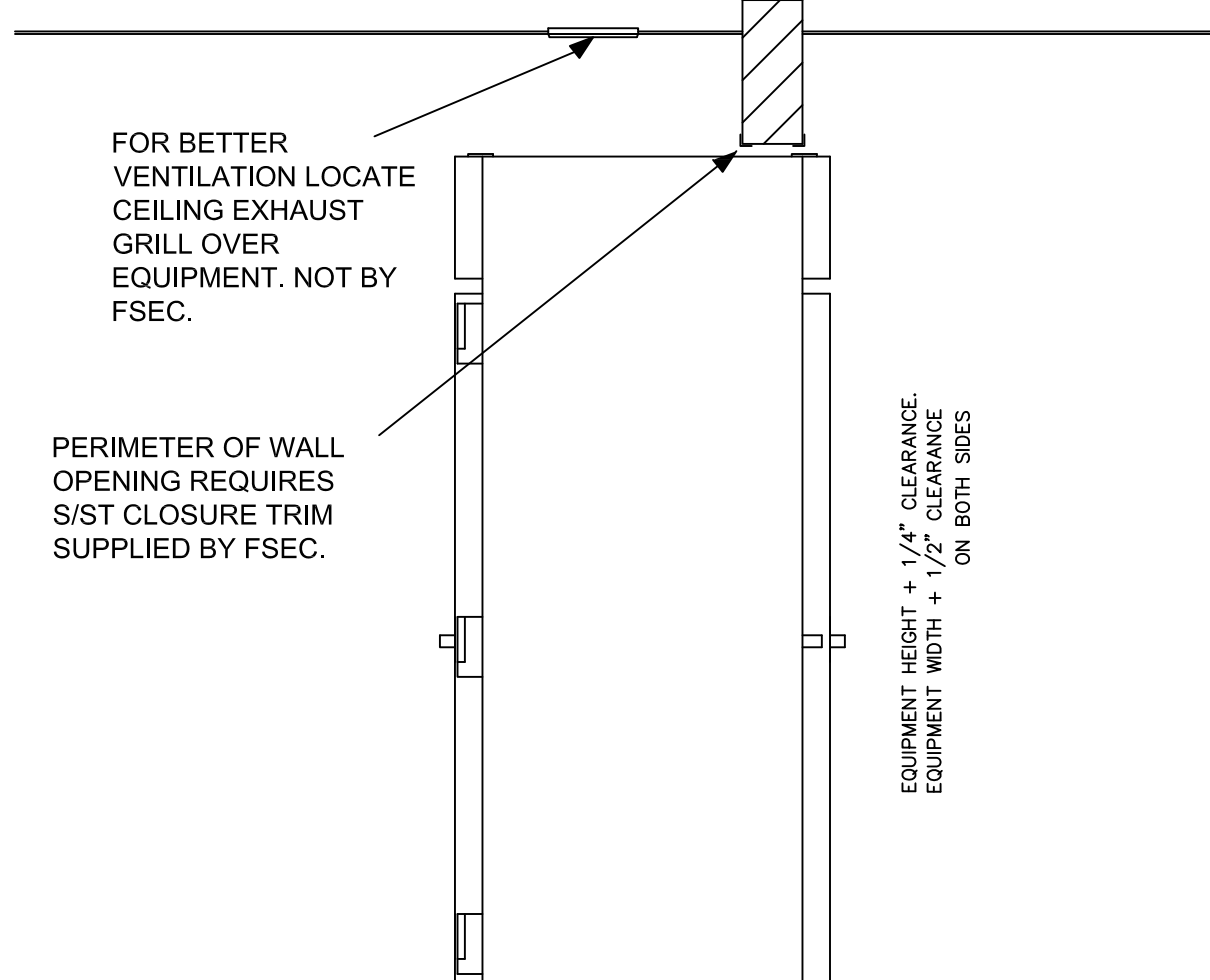
4 DISHMACHINE DUCT DETAIL
NOT TO SCALE



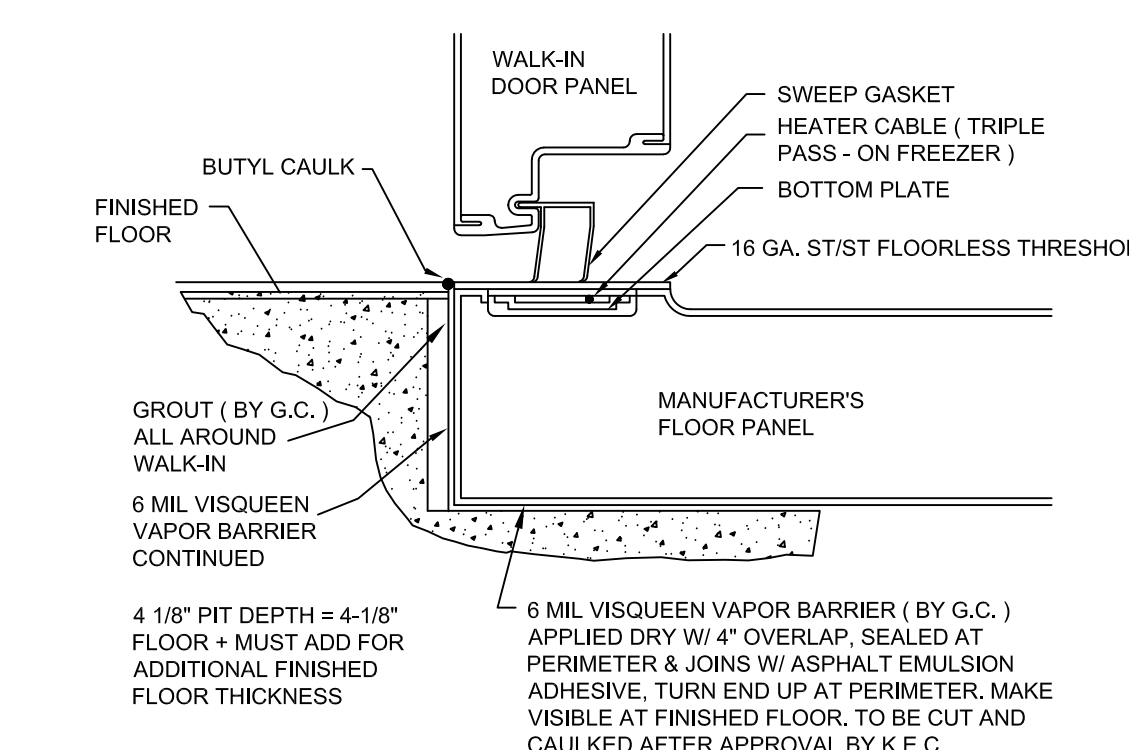
5 RECESSED EYE/FACE WASH DETAIL
NOT TO SCALE



6 HOSE REEL WITH CABINET DETAIL
NOT TO SCALE



8 PASS-THRU REF/FRZ/HEATED CABINET
NOT TO SCALE



A FLOOR TYPE DETAIL IN PIT
PIT MUST BE TRANSIT LEVEL.
F35 AND FL20 BY G.C.

HOOD INFORMATION - JOB#4513479

HOOD NO	TAG	MODEL	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG		
									WIDTH	LENG	HEIGHT	DIA				CFM	VEL	SP
1		6030 VHB-G-ACPSP-F	15' 0"	700 DEG	II	N/A	175	2625	4"	14"	1312	1227	-0.152"	2362	1170	430 SS	ALONE	ALONE

PATENT NUMBERS
 AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
 AC-PSP WALL (CANADA) - CA PATENT 2820509.
 AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)			EFFICIENCY @ 7 MICRONS	QTY	LIGHT(S)			WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)		FIRE SYSTEM	ELECTRICAL	SWITCHES	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
			QTY	HEIGHT	LENGTH			TYPE	TYPE	SIZE				MODEL #	QUANTITY					
1						0					LEFT	12"x60"x30"					DCV-2111	1 LIGHT 1 FAN	NO	985 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. BACKSPLASH 80.00" HIGH X 192.00" LONG 430 SS VERTICAL. STRUCTURAL FRONT PANEL. RISER SENSOR INSTALL 3IN DBL. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

PERFORATED SUPPLY PLENUM(S)

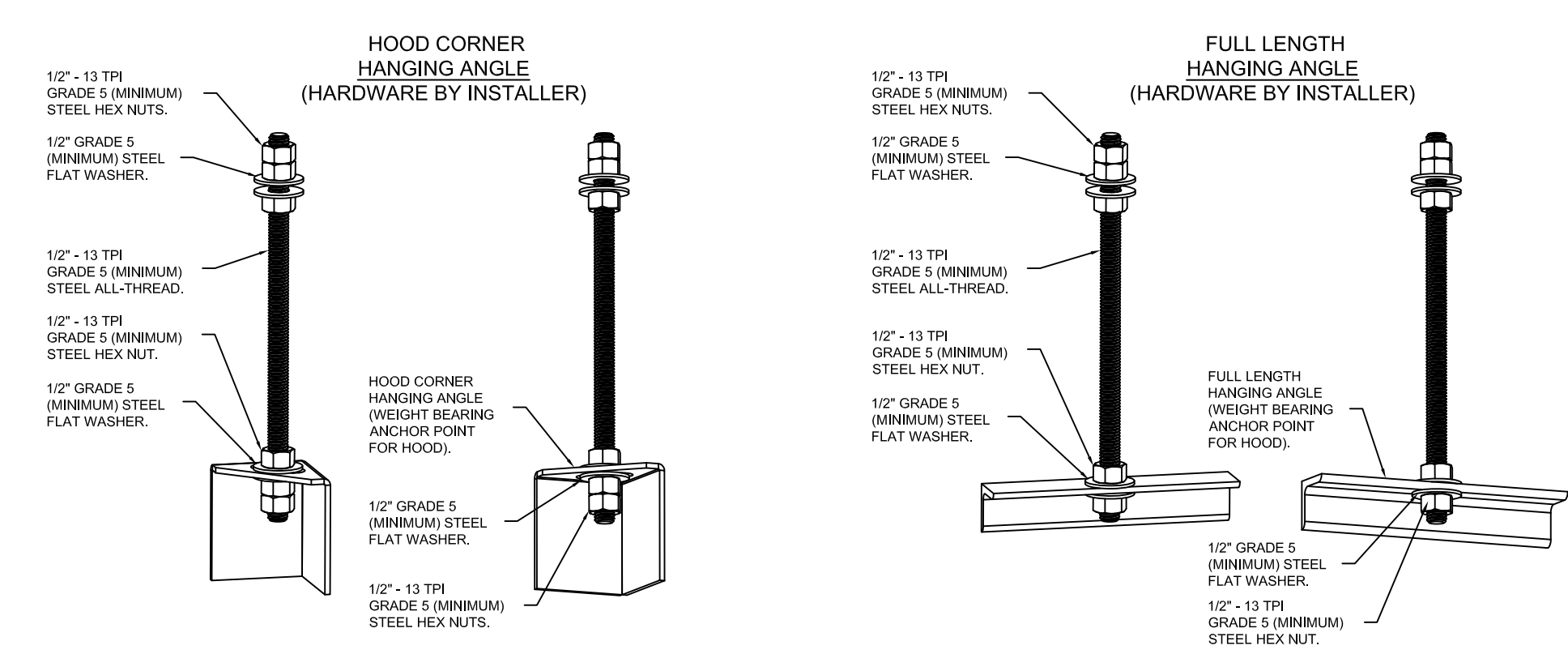
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1		Front	192"	22"	6"	MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						MUA	10"	196	0.073"		
						AC	8"	117	0.043"		
AC	8"	117	0.043"								
AC	8"	117	0.043"								
AC	8"	117	0.043"								
AC	8"	117	0.043"								
AC	8"	117	0.043"								
AC	8"	117	0.043"								
AC	8"	117	0.043"								
AC	8"	117	0.043"								
AC	8"	117	0.043"								
AC	8"	117	0.043"								
AC	8"	117	0.043"								
AC	8"	117	0.043"								
AC	8"	117	0.043"								
AC	8"	117	0.043"								

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

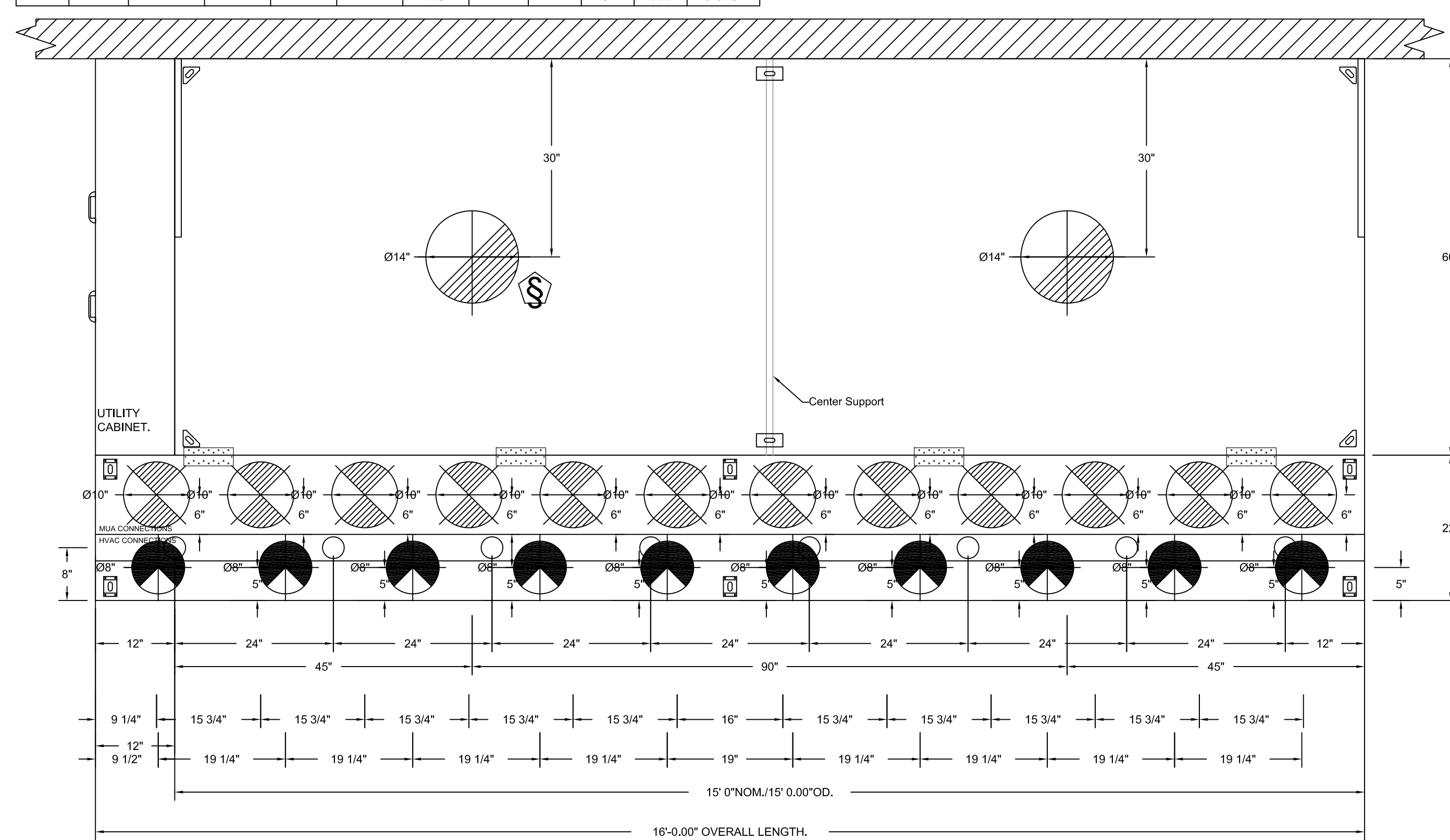
ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.



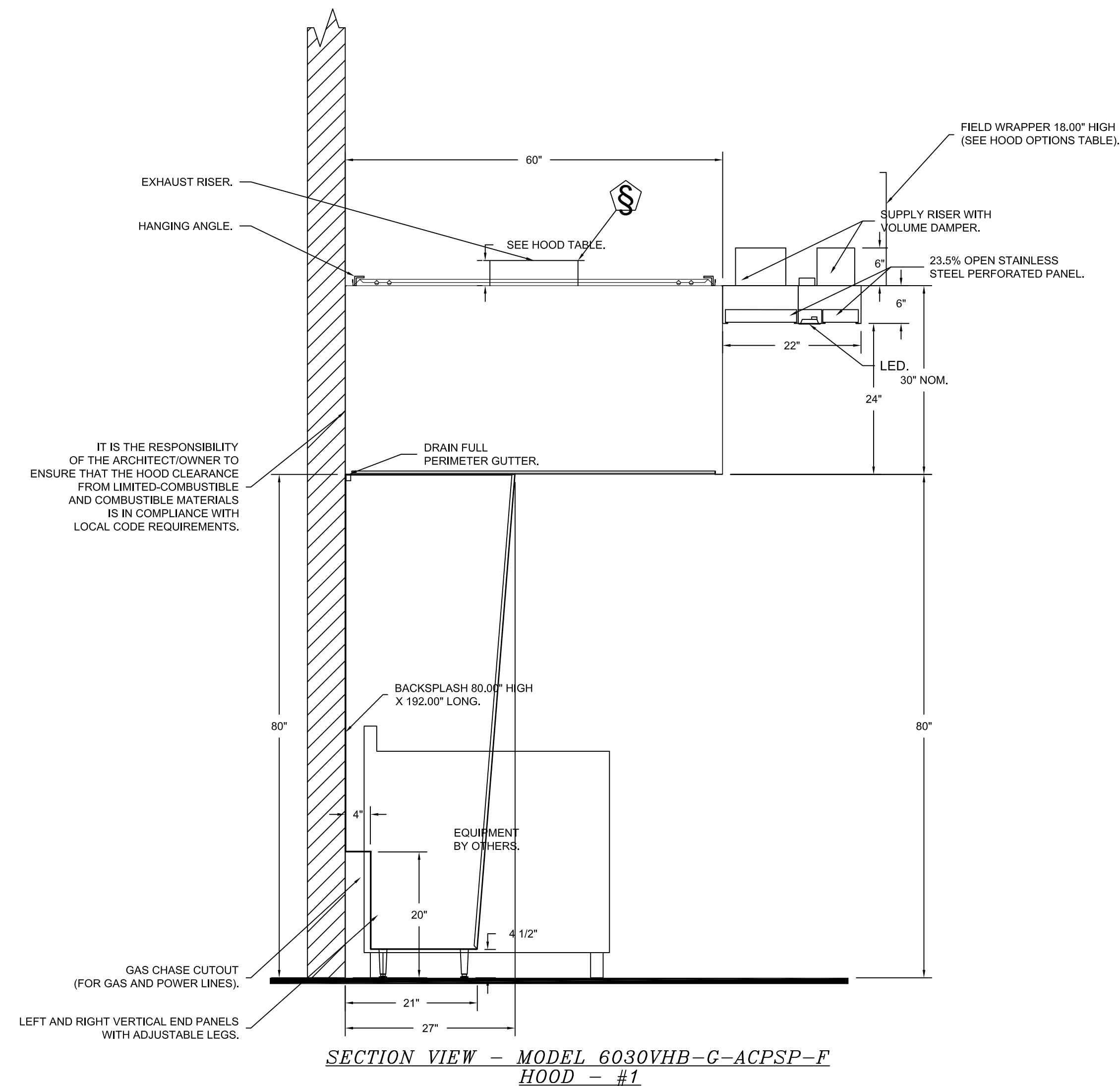
ASSEMBLY INSTRUCTIONS

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.



PLAN VIEW - HOOD #1
 15' 0.00" LONG 6030VHB-G-ACPSP-F
 NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.
 ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

LIGHTING FOR ACPSP JOB # 4513479 - HOOD #1
 INPUT: 120V AC, 1 PHASE, 60/60HZ, 3.5 WATTS PER LIGHT.
 TO CONTROL LIGHTS WITH HOOD LIGHT SWITCH, WIRE PER HOOD ELECTRICAL CONTROL PANEL SCHEMATIC.
 TO CONTROL LIGHTS WITH BUILDING LIGHT SWITCH, WIRE BLACK AND WHITE WIRE TO A 120VAC SERVICE.
 END TO END ACPSPS REQUIRE 120VAC FIELD WIRING FROM J-BOX TO J-BOX. REPLACE LIGHTS WITH LED LIGHTS ONLY.



SECTION VIEW - MODEL 6030VHB-G-ACPSP-F HOOD - #1

REVISIONS	
DESCRIPTION	DATE

CAPTIVE
 Iowa Office
 2041 Grand Ave, Suite B, West Des Moines, IA 50265 PHONE: (515) 218-5908 FAX: (919) 227-5955 EMAIL: reg7@captiveware.com
 www.captiveware.com

Lee's Summit Middle School Type II_R3
 LEES SUMMIT, MO, 64086

DATE: 9/9/2020
DWG.#: 4513479
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
 1

EXHAUST HOOD NTS

EXHAUST FAN INFORMATION - JOB#4513479

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	DUBSHFA	1313	0.500	1072	TEAO-ECM	0.750	0.2150	1	208	5.2	416 FPM	87	10.2
2		1	DUBSHFA	1313	0.500	1072	TEAO-ECM	0.750	0.2150	1	208	5.2	416 FPM	87	10.2

CONDENSER DETAILS

FAN UNIT NO	TAG	FAN UNIT MODEL #	CONDENSER NO	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX FUSE SIZE	MIN WIRE SIZE	SEER
3		A2-D.250-20D-MPU	1	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14

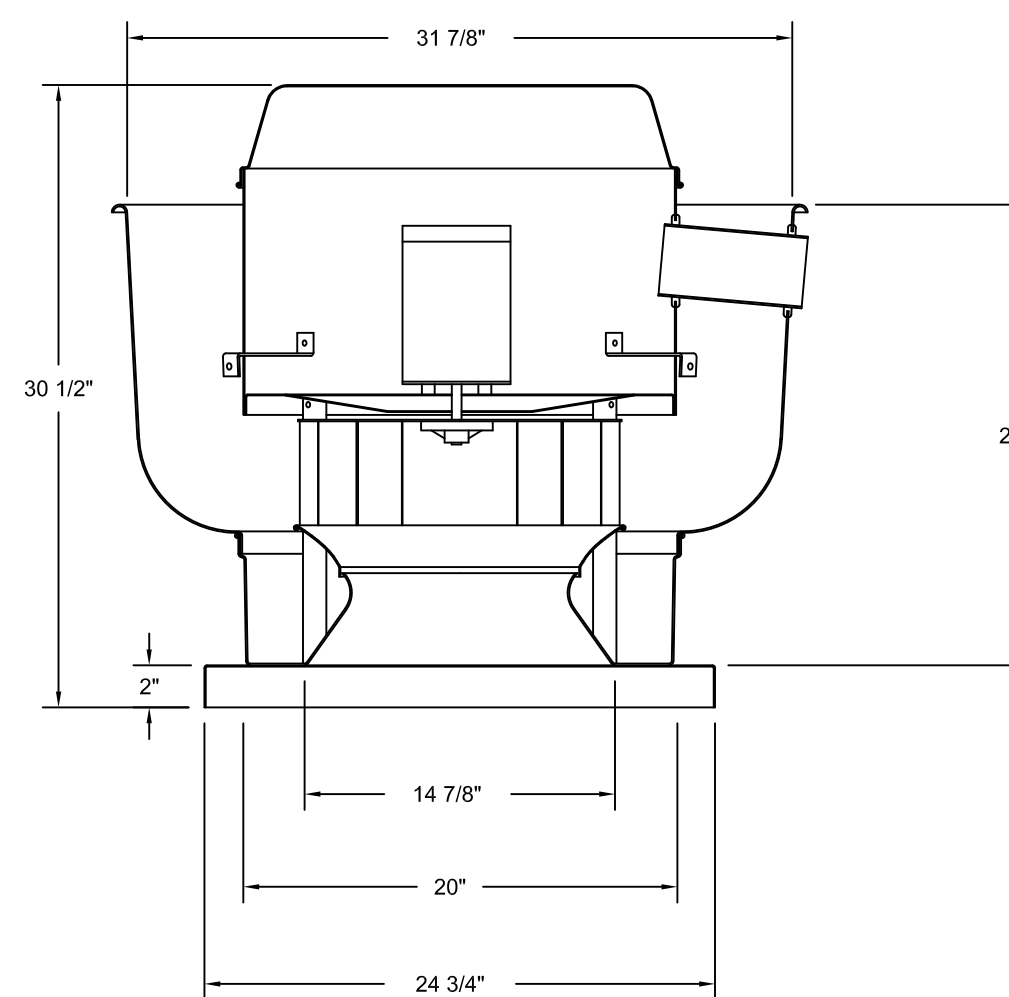
MUA FAN INFORMATION - JOB#4513479

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	Ø	VOLT	FLA	MCA	MOCP	COOLING COIL ENTERING DB TEMP	COOLING COIL ENTERING WB TEMP	COOLING COIL LEAVING DB TEMP	COOLING COIL LEAVING WB TEMP	COOLING COIL TOTAL CAPACITY	COOLING COIL SENSIBLE CAPACITY	COOLING COIL LATENT CAPACITY	WEIGHT (LBS)	SONES
3		1	A2-D.250-20D-MPU	20MF-2-MOD	A2-D.250	2000	2362	0.500	1129	ODP PREMIUM	1.000	0.7610	3	208	3.8	4.8A	15A	94.0°F	76.0°F	79.0°F	69.7°F	55.6 MBH	36.0 MBH	19.6 MBH	1374	9.3

CAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
3		174918	160925	66°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FANS #1, #2 - DUBSHFA EXHAUST FAN

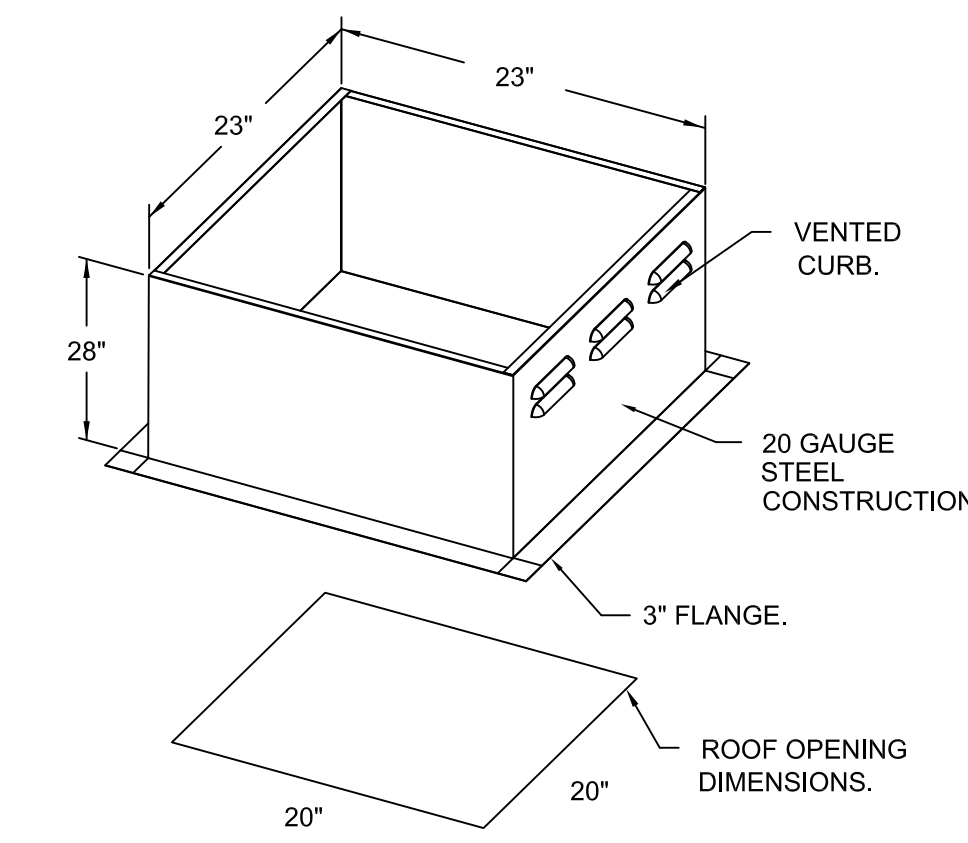


FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- WEATHERPROOF DISCONNECT.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

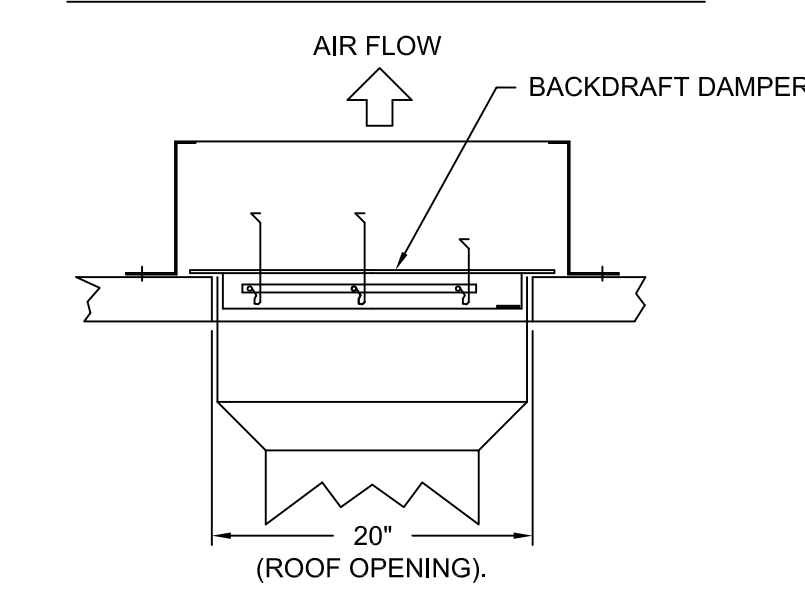
OPTIONS:

- 1 19-BDD DAMPER.
- SCR-15 BIRD SCREEN.
- ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.
SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

BACKDRAFT DAMPER INSTALLATION



FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	1 19-BDD DAMPER.
		1	SCR-15 BIRD SCREEN.
2		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
		1	1 19-BDD DAMPER.
3		1	SCR-15 BIRD SCREEN.
		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
		1	SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE. USED ON HEATERS UNDER 2500 CFM.
		1	AC INTERLOCK RELAY - 24VAC COIL.
		1	MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING.
		1	LOW FIRE START.
		1	INLET PRESSURE GAUGE, 0-35".
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC.
		1	COOLING THERMOSTAT AND RELAY (NOT REQ FOR EVAP).
		1	5 TON SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 2 DF/EH MUA (2,000 TO 3,000 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION.
		1	DOWNTURN PLENUM FOR SIZE 2 DX COIL MODULE.
		1	FREEZESTAT (10).
	1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY.	

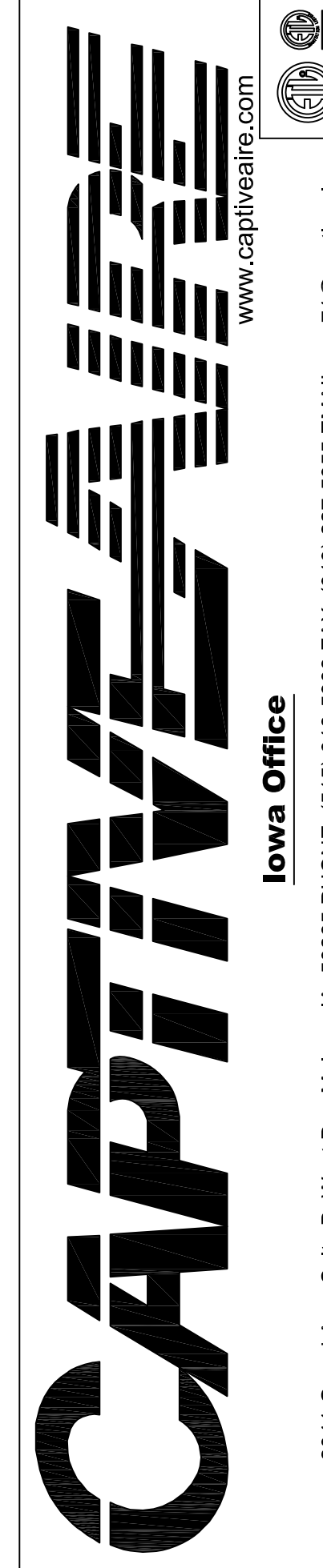
FAN ACCESSORIES

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

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	49 LBS	CURB	23.000"W X 23.000"L X 28.000"H RIGHT VENTED HINGED.
2	# 2	49 LBS	CURB	23.000"W X 23.000"L X 28.000"H RIGHT VENTED HINGED.
3	# 3	107 LBS	CURB	31.000"W X 29.000"L X 20.000"H RIGHT INSULATED.
	# 3		RAIL	6.000"W X 31.000"L X 20.000"H RIGHT.

REVISIONS	
DESCRIPTION	DATE



Lee's Summit Middle School Type II_R3
LEES SUMMIT, MO, 64086

DATE: 9/9/2020
DWG.#: 4513479
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING

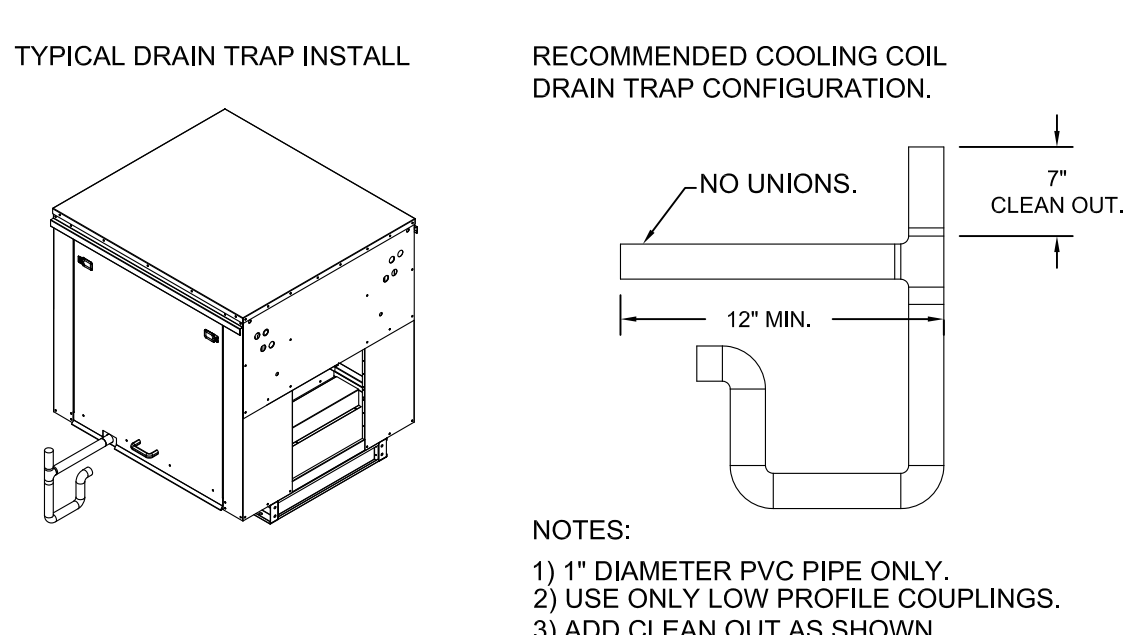
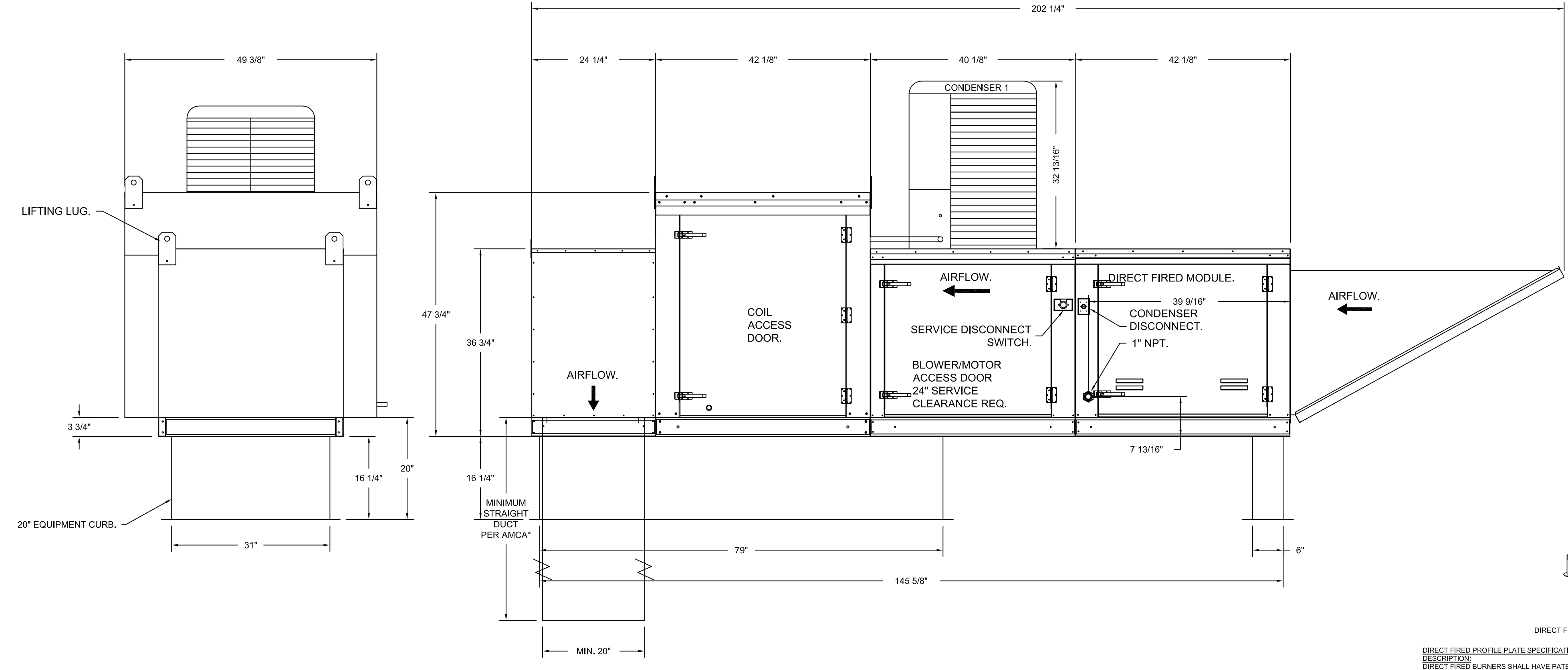
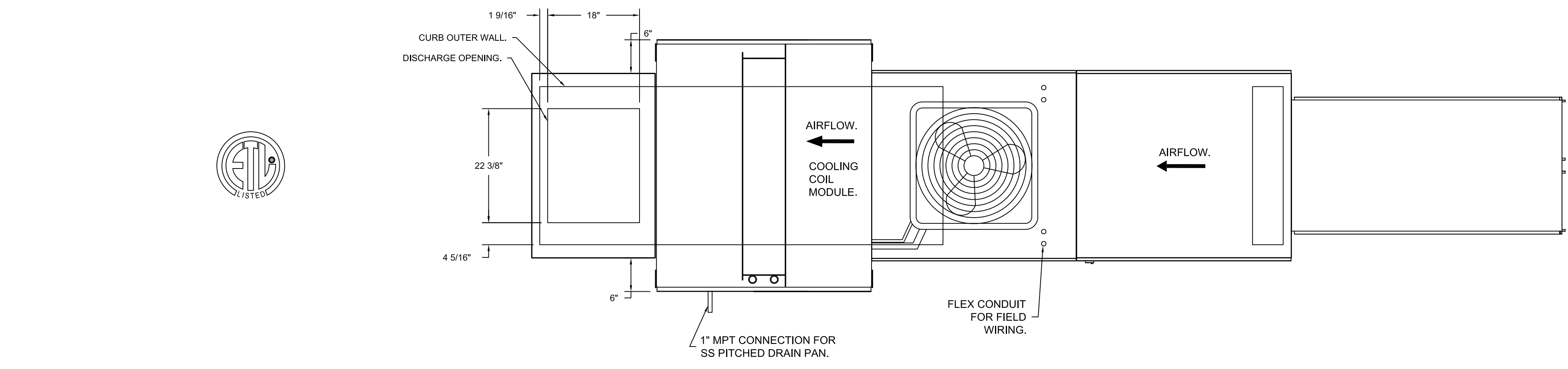
SHEET NO. 2

EXHAUST HOOD NTS

- FAN #3 A2-0.250-200-MPU - HEATER
- DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" DIRECT DRIVE FAN.
 - INTAKE HOOD WITH EZ FILTERS.
 - DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
 - PROFILE PLATE CONFIGURATION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW CFM APPLICATIONS.
 - COOLING INTERLOCK RELAY, 24VAC COIL, 120V CONTACTS, LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
 - MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, LP1205 ACTUATOR INCLUDED.
 - LOW FIRE START, ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
 - GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
 - 5 TON, SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 2 DFIEH MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER-DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING (2,000 TO 3,000 CFM) WHEN ORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION, DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE, ANY OTHER CHANGE WILL REQUIRE CLL CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION, COIL # 3E210016.
 - DOWNTURN PLENUM FOR SIZE 2 COOLING COIL MODULE - REQUIRED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS.
 - FREESTAT WITH HI SENSOR, FACTORY SET AT 35°F AND 10 MINUTES.
 - SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
 - HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION).

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRAMATICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".

SUPPLY SIDE HEATER INFORMATION:
 WINTER TEMPERATURE = 9°F, TEMP. RISE = 66°F.
 BTUs CALCULATED OFF ACTUAL AIR DENSITY.
 OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 166546.
 INPUT BTUs AT ALTITUDE OF 0.0 FT. = 181026.
 OUTPUT BTUs AT ALTITUDE OF 947 FT. = 160925.
 INPUT BTUs AT ALTITUDE OF 947 FT. = 174918.



- NOTES:
 1) 1" DIAMETER PVC PIPE ONLY.
 2) USE ONLY LOW PROFILE COUPLERS.
 3) ADD CLEAN OUT AS SHOWN.

DIRECT FIRED PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:

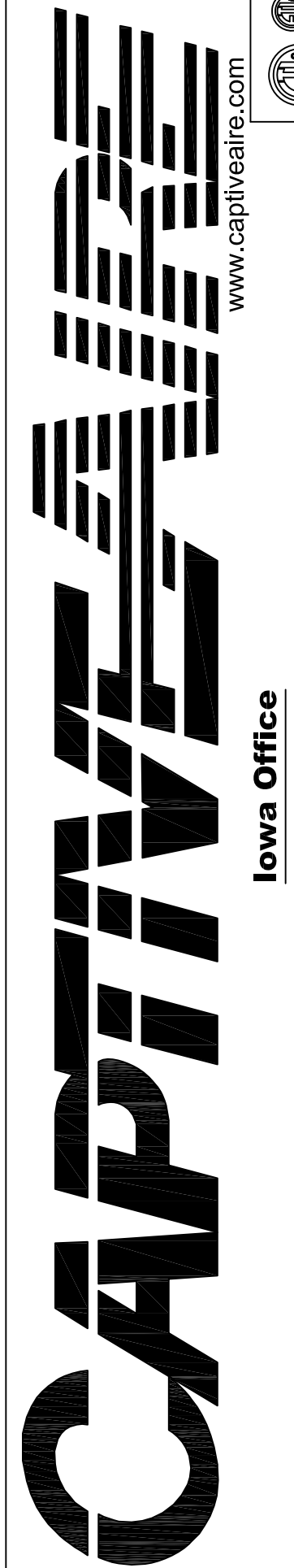
DESIGN:
 DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US6920362) SELF-ADJUSTING PROFILE PLATES ENGINEERED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 0.5% OF CARBON MONOXIDE (CO) AND SUPPLY OF NITROGEN DIOXIDE (NO2). DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:
 SPRING LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL OF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

CERTIFICATIONS:
 ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNITS ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z91.4 AND CSA 1.1 (WHICH CIRCULATING OF HEATERS) AND ANSI Z35.18 (RE-CIRCULATING OF HEATERS).

GENERAL CONSTRUCTION:
 PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
 PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
 PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
 DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
 SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

REVISIONS	
DESCRIPTION	DATE



2041 Grand Ave., Suite B, West Des Moines, IA, 50265 PHONE: (515) 318-5908 FAX: (515) 227-5955 EMAIL: reg71@captivair.com

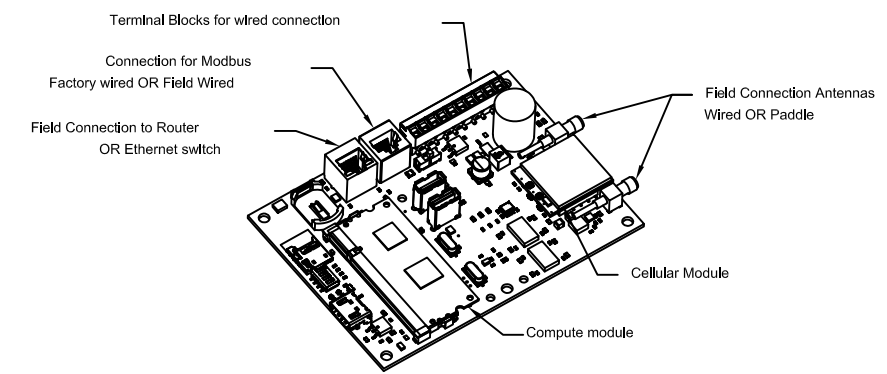
Lee's Summit Middle School Type II_R3
 LEES SUMMIT, MO, 64086

DATE: 9/9/2020
 DWG.#: 4513479
 DRAWN BY:
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING
 SHEET NO. 3

EXHAUST HOOD
 NTS

ELECTRICAL PACKAGE - JOB#4513479

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	HP	VOLT	FLA	
1		DCV-2111	UTILITY CABINET LEFT	03- UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	EXHAUST	1	0.750	208	5.2
				HOOD #1	1 FAN		SUPPLY	3	1.000	208	3.8

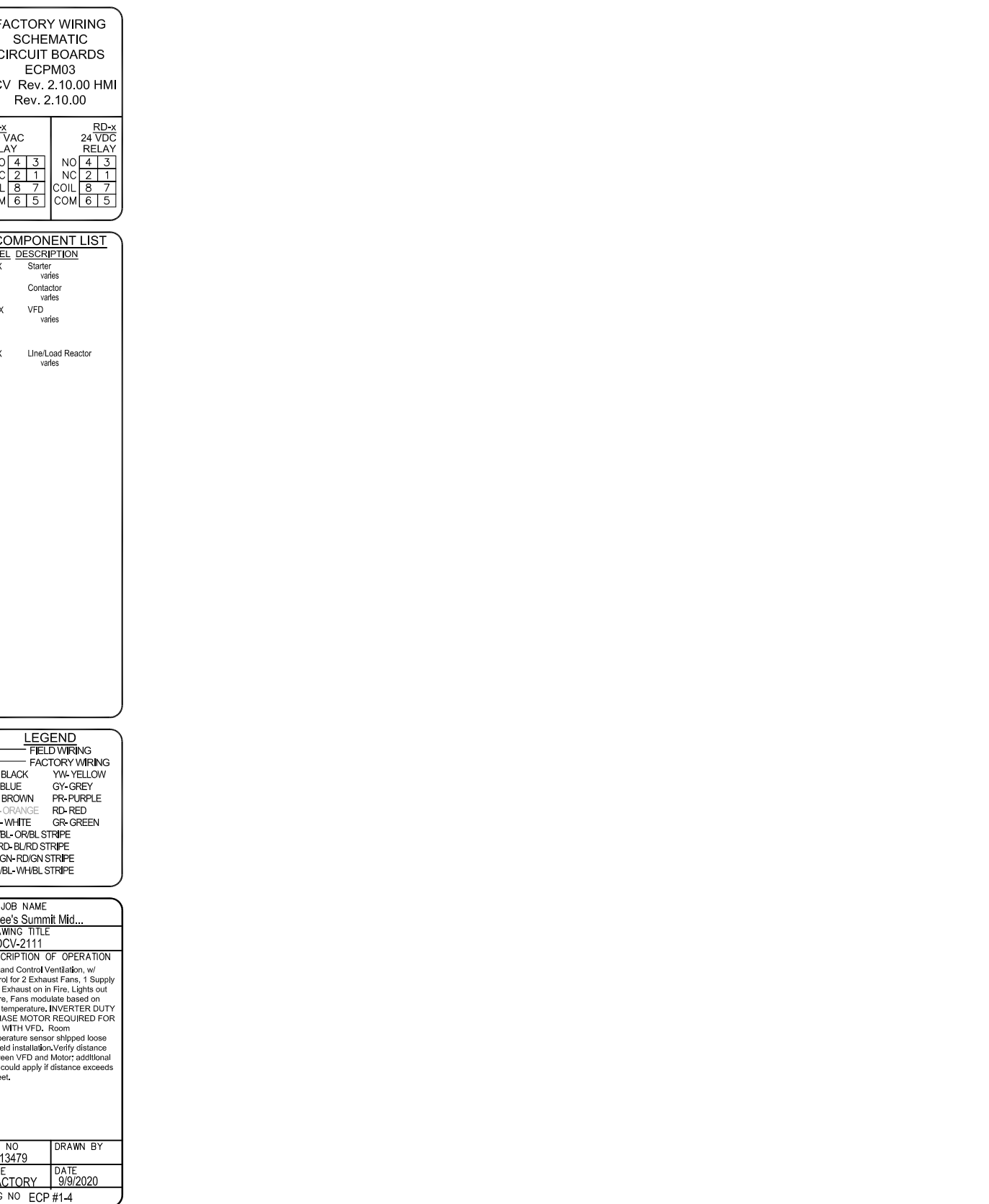
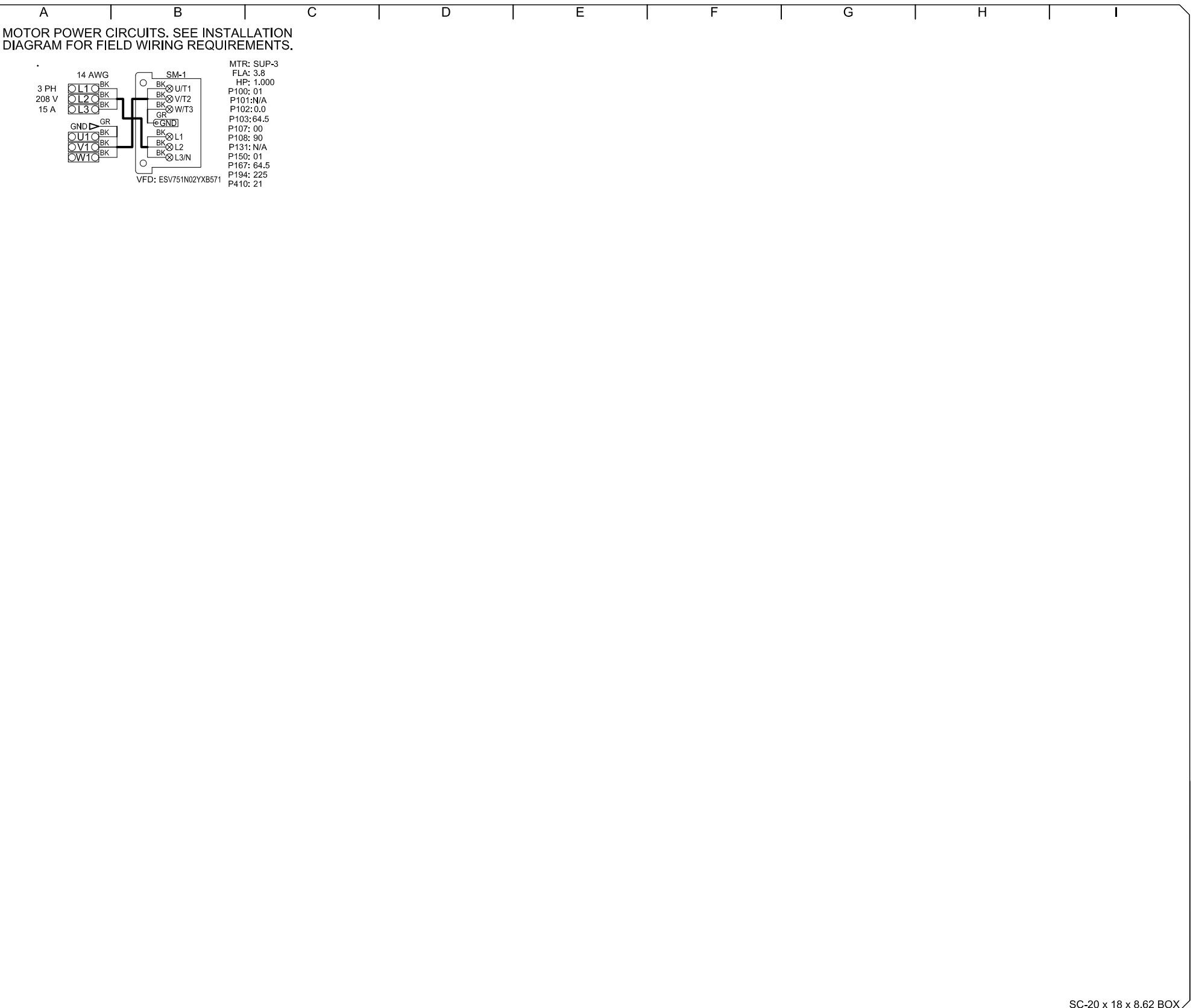
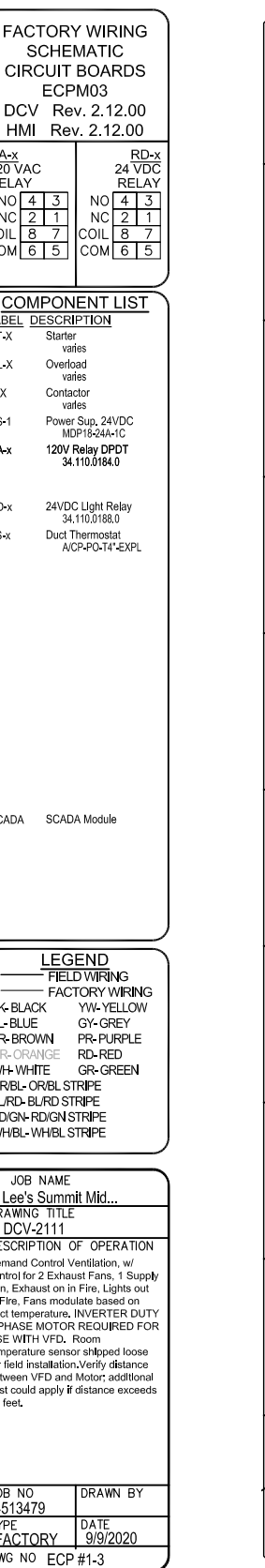
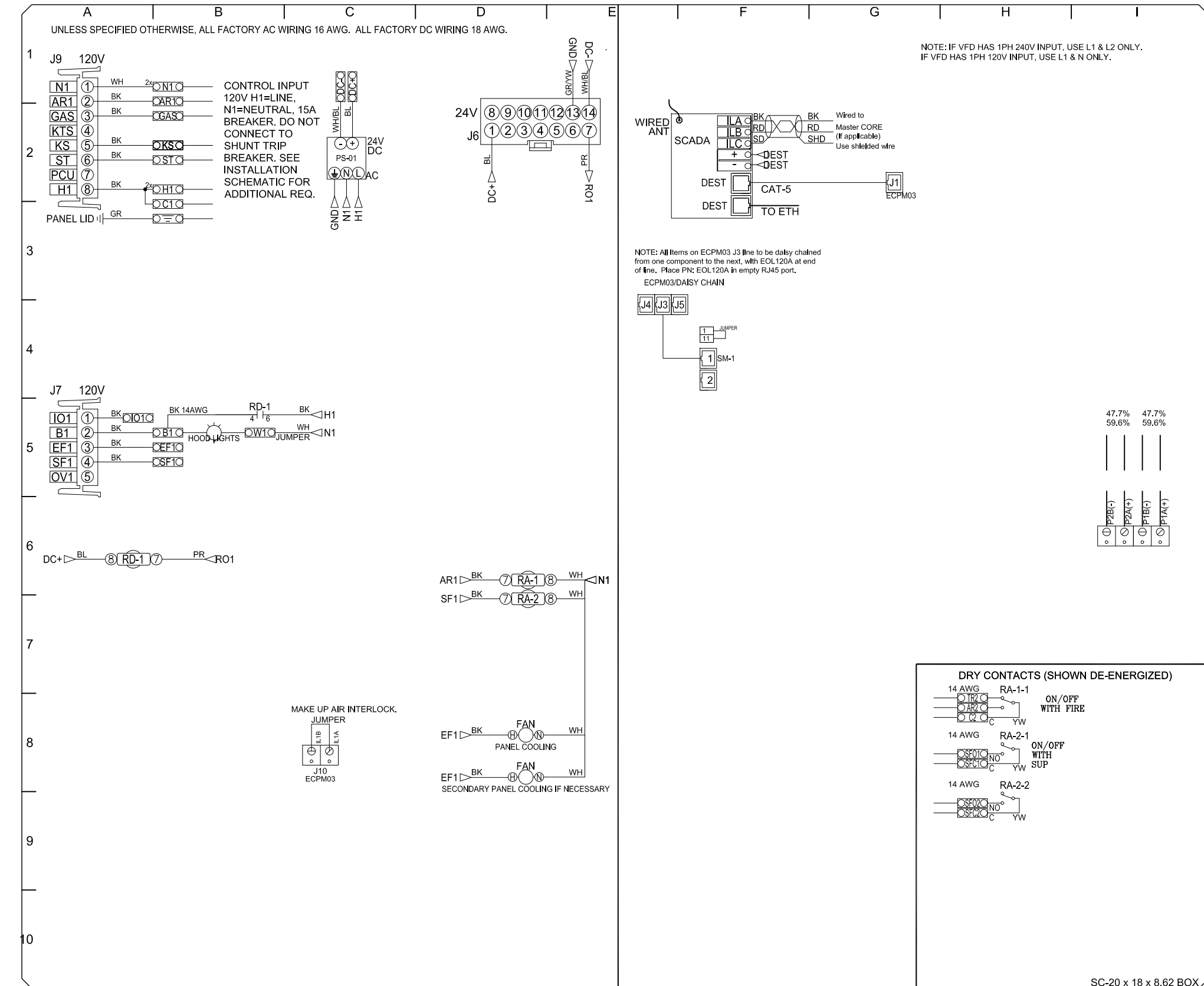
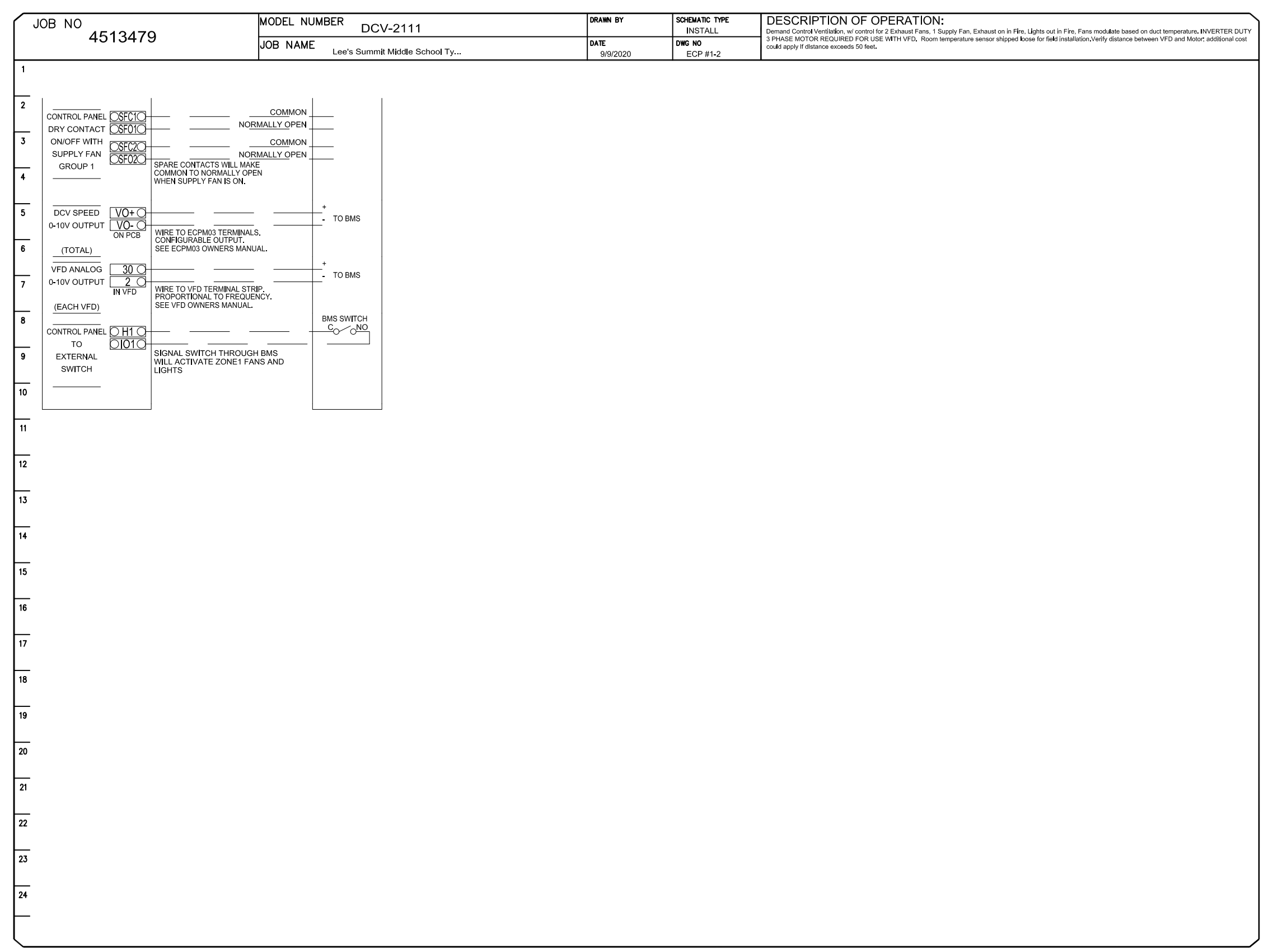
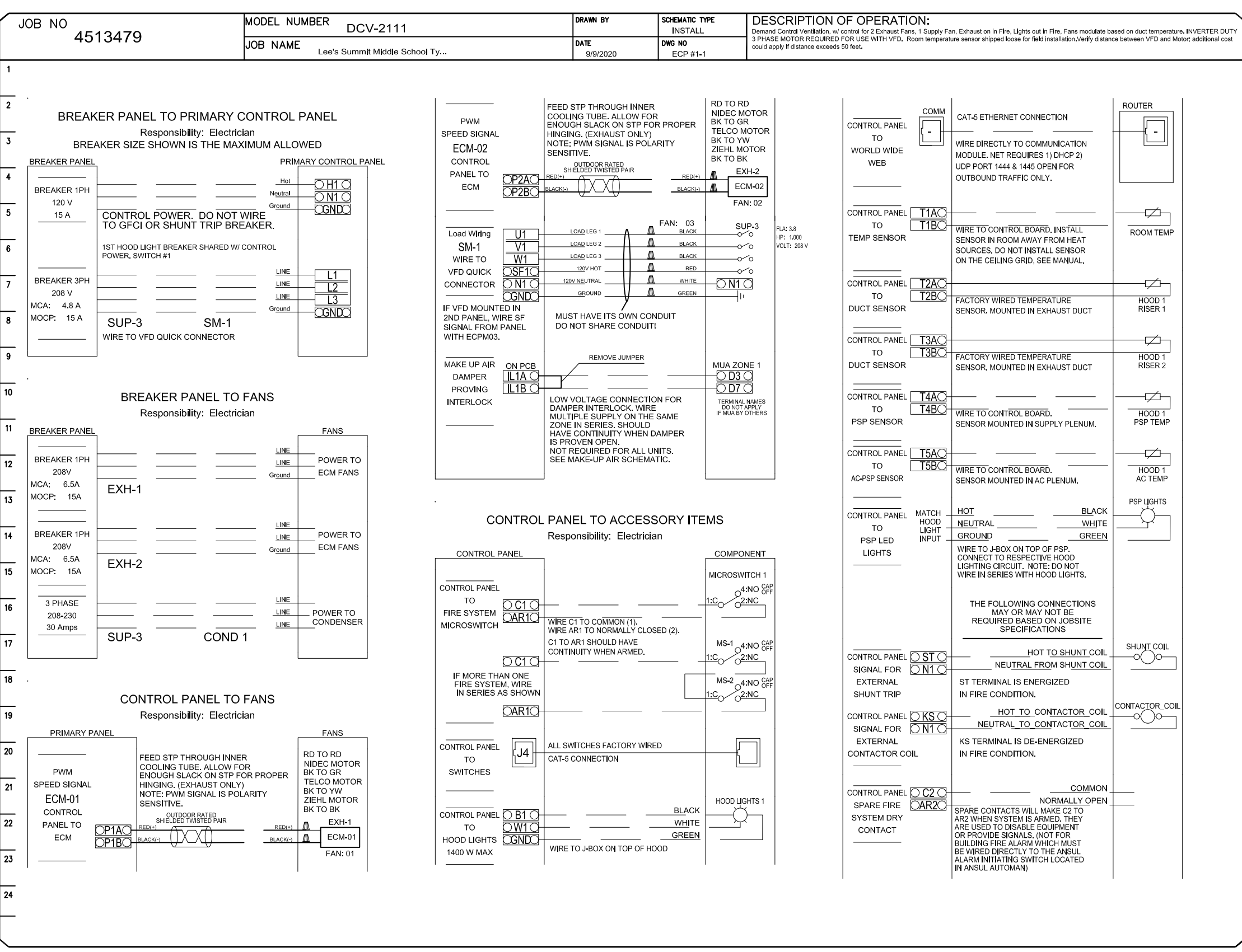


CASink Monitor and Control

Head control panel to support communications to cloud-based Building Management System.
 Head Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
 Head Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
 Head 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

DCV Package	Function	DC Package	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
WPA Discharge Temperature	MONITOR	WPA Discharge Temperature	MONITOR
Return RTU Discharge Temperature	MONITOR	Return RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Status	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	VFD Faults	MONITOR
Controller Faults	MONITOR	PCV Filter Clip Percentages	MONITOR
Fan Status	MONITOR	Fan Condition	MONITOR
PCV Filter Clip Percentages	MONITOR	CO2/F CO2 System	MONITOR
PCV Filter Clip Percentages	MONITOR	Building Pressures	MONITOR
PCV Filter Clip Percentages	MONITOR	Fan Buttons(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Light Buttons(s)	MONITOR & CONTROL
CO2/F CO2 System	MONITOR	Wash Buttons	MONITOR & CONTROL
Building Pressure	MONITOR & CONTROL		
Prep View Buttons	MONITOR & CONTROL		
Fan Buttons	MONITOR & CONTROL		
Light Buttons	MONITOR & CONTROL		
Wash Buttons	MONITOR & CONTROL		



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE
 Iowa Office
 2041 Grand Ave., Suite B, West Des Moines, IA 50265 PHONE: (515) 315-5988 FAX: (515) 227-5985 EMAIL: reg7@captivewire.com

Lee's Summit Middle School Type II_R3
 LEES SUMMIT, MO. 64086

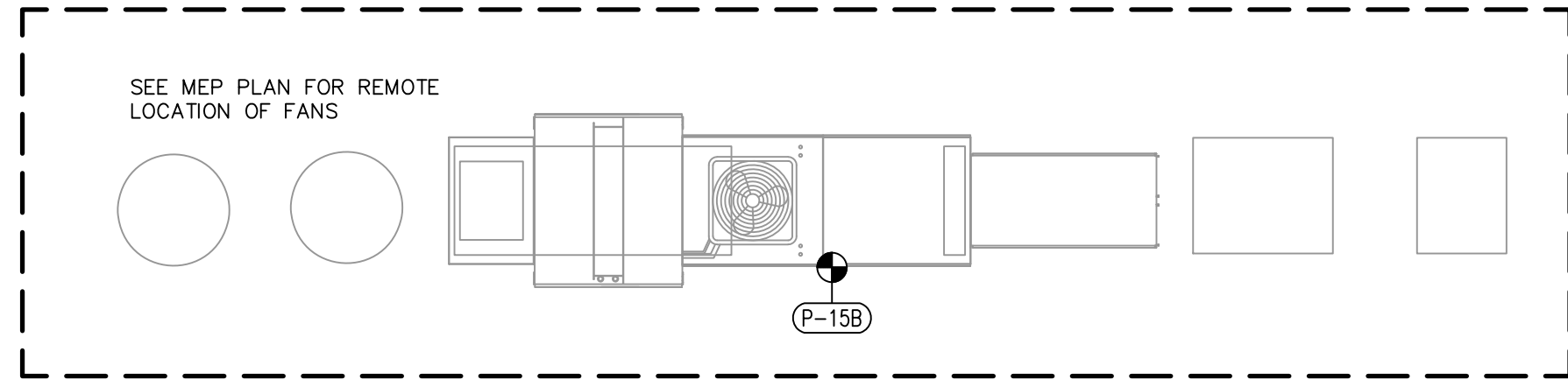
DATE: 9/9/2020
 DWG.#: 4513479
 DRAWN BY:
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 5

EXHAUST HOOD
 NTS

LEGEND - PLUMBING CONNECTION

- HW-HOT WATER, OR CW-COLD WATER
- GAS SUPPLY
- WASTE, DIRECT-CONNECTED UNLESS NOTED "OPEN HUB"
- ▣ FLOOR SINK WITH HALF GRATE UNLESS NOTED OTHERWISE
- ▣ FLOOR SINK WITH 3/4 GRATE UNLESS NOTED OTHERWISE
- ⊠ FLOOR DRAIN
- ⊠ FLOOR DRAIN W/ATTACHED FUNNEL
- INDIRECT WASTE- STAND UP PIPE
- FLOOR DRAIN
- - - FIELD CONNECTIONS



PLUMBING ROUGH-IN PLAN
1/4" = 1'-0"

B:\301215\20102-00\Lee's Summit Middle School 4\13-20102-00_Lee's Summit Middle School 4_ARCH\2020.rvt
2/2/2020 10:20:42 AM

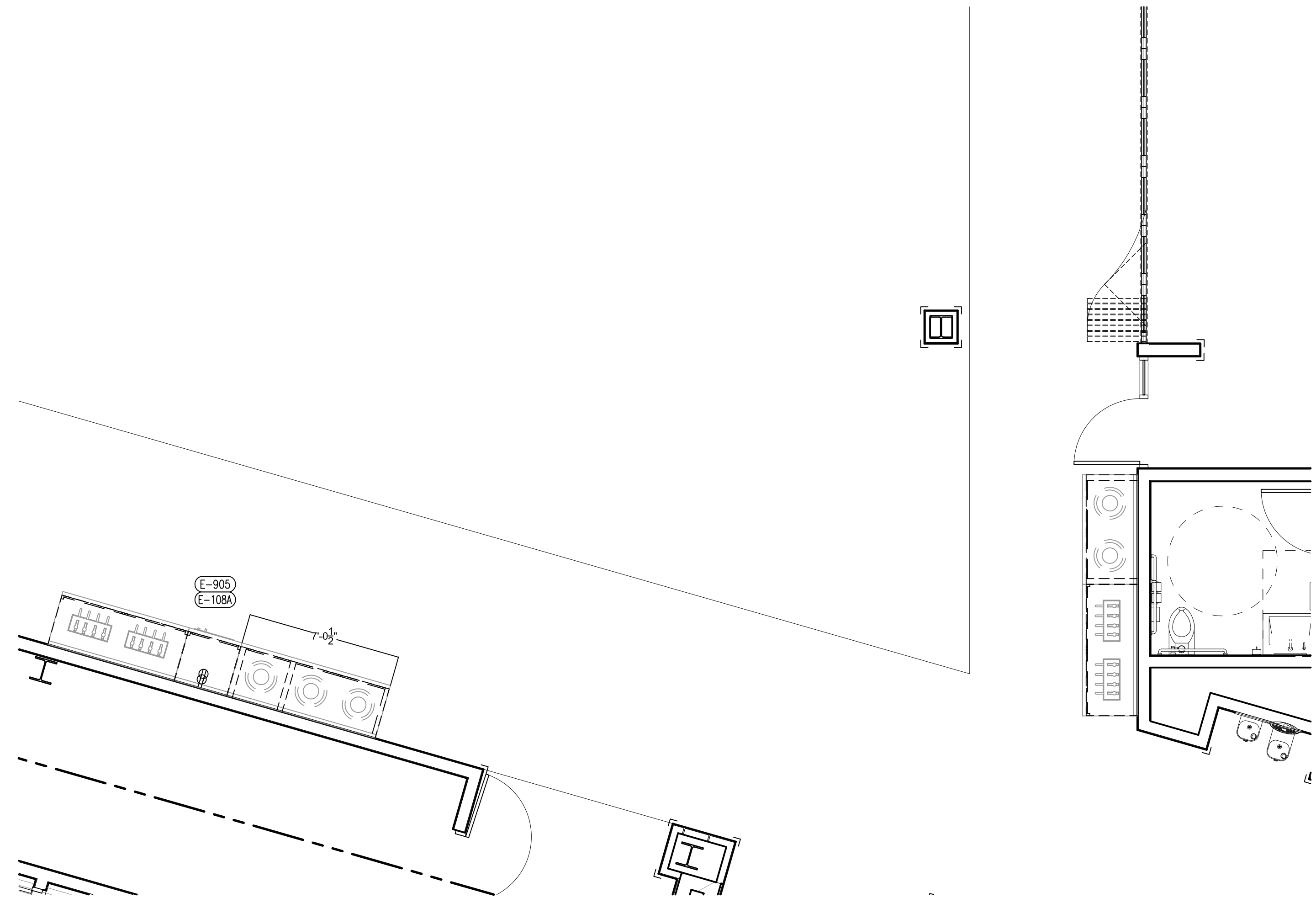
PLUMBING SCHEDULE															
ITEM NO	QTY	EQUIPMENT CATEGORY	COLD WATER SIZE (IN)	COLD WATER AFF (IN)	HOT WATER SIZE (IN)	HOT WATER AFF (IN)	DIRECT DRAIN SIZE (IN)	DIRECT DRAIN AFF (IN)	INDIR DRAIN SIZE (IN)	INDIR DRAIN AFF (IN)	PLUMBING REMARKS	GAS SIZE (IN)	MBTUH	GAS AFF (IN)	PLUMBING REMARKS
1	1	WASHER & DRYER	0.75	24	0.75	24			1.5	20	NIKEC, SEE NOTE 24, P.C. TO VERIFY ROUGH-IN REQUIREMENTS WITH OTHERS; STAND UP PIPE FOR WASTE	0.5		30	SEE NOTE 24, P.C. TO VERIFY ROUGH-IN REQUIREMENTS WITH OWNER
1	1	FILTER SYSTEM, FOUNTAIN BEVERAGE	0.375	26											.375 WATER INLET & .375 WATER OUTLET, FLOW RATE - 2.1GPM MAX; PRESSURE - 30 TO 125PSI
4	1	MOP SINK W/ FAUCET	X		X		X				NIKEC, BY P.C., SEE OTHERS FOR ROUGH-IN REQUIREMENTS				
13	1	HAND SINK	0.5	24	0.5	24	1.5	20							
13A	1	HAND SINK	0.5	24	0.5	24	1.5	20							
13B	2	HAND SINK	0.5	24	0.5	24	1.5	20							
13C	2	HAND SINK	0.5	24	0.5	24	1.5	20							
15B	1	MAKE-UP AIR UNIT										1	CLG		INPUT MBTUH: 174.918; OUTPUT MBTUH: 160.925, SEE MANUFACTURER'S DRAWINGS
16	3	COMBI OVEN, DBL	(2)0.75	36/42											UNFILTERED WATER, 30 TO 60 PSI, SEE SPECIFICATIONS FOR WATER QUALITY REQUIREMENTS, P.C. TO SUPPLY AND INSTALL QUICK DISCONNECT, SHUT OFF VALVES RECOMMENDED
			(3)TEE	36					1		30 TO 60 PSI, SEE SPECIFICATIONS FOR WATER QUALITY REQUIREMENTS, P.C. TO EXTEND 3/4" CW TO COMBI & TEE 3/4" CW TO LOWER COMBI, P.C. TO SUPPLY AND INSTALL QUICK DISCONNECT, SHUT OFF VALVES RECOMMENDED, FILTERED WATER FROM FILTER 16A				
16A	3	WATER FILTER, COMBI	0.75	(2)72							(2) FLOOR SINKS, ONE SINK SERVICES TO OVEN UNITS, SEE NOTE 14				CONTINUE SERVICE TO COMBI OVEN
			0.75	(1)36							CONTINUE SERVICE TO COMBI OVEN				
20	1	PREP TABLE W/ OVERSHELF, FAUCETS	0.75	STUB UP 12	0.75	STUB UP 12					P.C. TO EXTEND 1/2" CW & HW TO FAUCET AND "T" 1/2" CW & HW TO SECOND FAUCET, P.C. TO EXTEND 1/4" CW TO ITEM 22, SEE ITEM 22 FOR WATER REQUIREMENTS, SHUT OFF VALVES RECOMMENDED FLOOR SINK SERVICES (2) DRAINS				
22	1	HOT WATER DISPENSER	0.25	-					(2)2	FL	FLOOR SINK SERVICES (2) DRAINS & ITEM 22				
									0.75	FL	SEE P-20, SEE SPECIFICATIONS FOR WATER QUALITY REQUIREMENTS				
26	1	EVAPORATOR-FREEZER							0.75		FLOOR SINK, SEE MANUFACTURER'S DRAWINGS, ALSO SERVICES ITEM 27A, SEE NOTE 16				
27	1	EVAPORATOR-COOLER							0.75		SEE P-26, SEE NOTE 16, SEE MANUFACTURER'S DRAWINGS				
34	1	WORK COUNTER W/SINKS	0.75	STUB UP 12	0.75	STUB UP 12					STUB UP CW & HW THRU CURB, P.C. TO EXTEND 1/2" CW & HW TO FAUCET, "TEE" 1/2" CW & HW TO SECOND FAUCET, SHUT OFF VALVES RECOMMENDED.				
36	1	WORK COUNTER W/SINK	0.5	16	0.5	16			(2)2	FL	FLOOR SINK SERVICES (2) DRAINS				
41	1	4 COMPARTMENT SINK	(2)0.75	16	(2) 0.75	16			2	FL	FLOOR SINK				
41A	1	PRE-RINSE FAUCET	0.75	16	0.5				2	FL	FLOOR SINK, SEE NOTE 11				
42	1	DISPOSER	TEE				2	8			P.C. TO EXTEND 1/2" CW TO FAUCET & TEE OFF 1/2" CW THRU FLOW CONTROL VALVES, SOLENOID VALVE, VACUUM BREAKER & DISPOSER AS REQUIRED.				
43	1	EYEWASH STATION	0.5	24	0.5	24					SEE P-41A, SEE NOTE 20				
44	1	HOSE REEL W/ RECESSED CABINET	0.5	54	0.5	54			2	23	P.C. TO RUN THRU TEMPERING VALVE PROVIDED BY FSEC. SEE DETAIL 5/FS103				
									FL		STUB UP				
46	1	TROUGH DISPOSAL SYSTEM	0.75	12	0.75	12					STUB DOWN FROM CEILING, WATER FROM ABOVE, SEE DETAIL 6/FS-103				
47	1	DISHMACHINE W/ BLOWER			0.5	12	2	8			FLOOR DRAIN, CONVENIENCE				
									2	FL	REDUCE HW & CW LINES TO 1/2" AT CONNECTION, P.C. TO EXTEND 1-1/2" RECIRCULATION PIPING TO THE FAR END OF THE FABRICATED TROUGH TO DIFFUSER THRU FLOW CONTROL VALVE AND BRANCH (2)3/4" WATER CONNECTION FROM 1-1/2" PIPE THRU FLOW CONTROL VALVE TO GUSHER HEAD(S) LOCATED IN TROUGH				
49	1	FLOOR TROUGH					4	-10.25	1	FL	120 DEGREE, WATER HARDNESS AT 3 GRAINS OR LESS				
55	1	WORK COUNTER W/SINKS	0.5	18	0.5	18					FLOOR SINK, ALSO SERVICES BLOWER DRAIN, SEE NOTE 14				
59	1	WORK COUNTER W/SINKS	0.5	18	0.5	18					BLOWER DRAIN, SEE P-47				
67	1	ESPRESSO CAPPUCCINO MACHINE							2	FL	FLOOR SINK				
67B	1	WATER FILTER	0.75	26					2	FL	FLOOR SINK				
74	1	HOT FOOD WELL	0.5	STUB UP 6					0.5	-	P.C. TO CONTINUE SERVICE TO EXPRESSO				
75	1	COLD FOOD WELL							0.5	FL	SOFTENED WATER RECOMMENDED, P.C. TO SUPPLY AND INSTALL TO QUICK DISCONNECT, SHUT OFF VALVES RECOMMENDED.				
78	1	HOT FOOD WELL	0.5	STUB UP 6					0.5	FL	FLOOR SINK, ALSO SERVICES ITEM# 74.				
79	1	COLD FOOD WELL							0.5	-	SOFTENED WATER RECOMMENDED, P.C. TO SUPPLY AND INSTALL TO QUICK DISCONNECT, SHUT OFF VALVES RECOMMENDED.				
82	1	HOT FOOD WELL	0.5	STUB UP 6					0.5	FL	FLOOR SINK, ALSO SERVICES ITEM# 78.				
83	1	COLD FOOD WELL							0.5	-	SOFTENED WATER RECOMMENDED, P.C. TO SUPPLY AND INSTALL TO QUICK DISCONNECT, SHUT OFF VALVES RECOMMENDED.				
86	1	COLD FOOD WELL							0.5	FL	FLOOR SINK, ALSO SERVICES ITEM# 82.				
89	1	HOT/COLD WELL	0.5	STUB UP 6					0.5	FL	FLOOR SINK, ALSO SERVICES ITEM# 89.				
									1	-	SOFTENED WATER RECOMMENDED, P.C. TO SUPPLY AND INSTALL TO QUICK DISCONNECT, SHUT OFF VALVES RECOMMENDED.				

PLUMBING NOTES

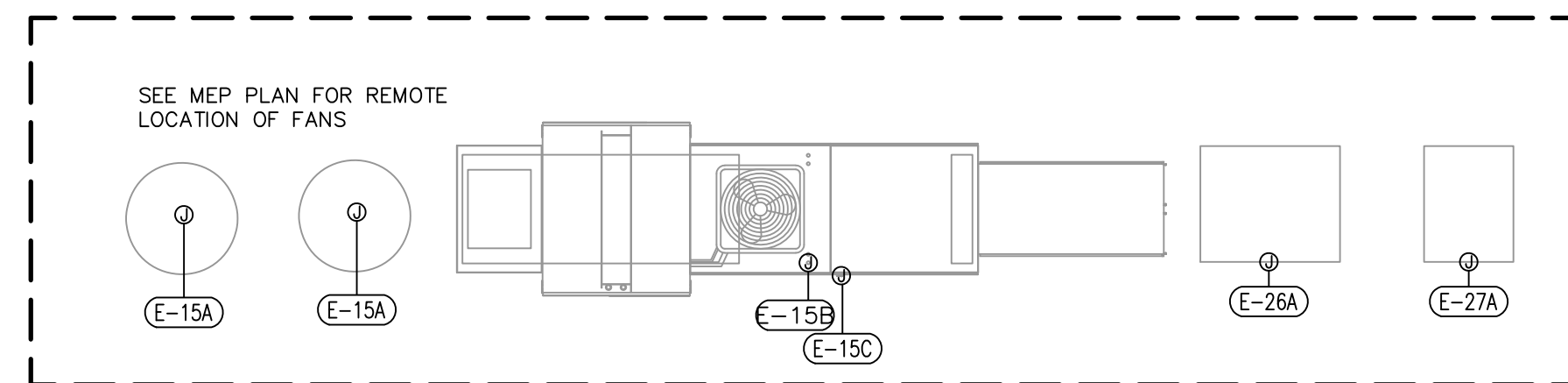
- ALL PLUMBING SERVICES TO MEET LOCAL, STATE, AND NATIONAL CODES.
- ALL FINAL MECHANICAL CONNECTIONS TO EQUIPMENT, EXTERNAL AND INTERNAL PARTS, FITTINGS AND ETC. TO MAKE EQUIPMENT OPERATIONAL, TO BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR, UNLESS OTHERWISE SPECIFIED. ALL PLUMBING FIXTURES INCLUDING BUT NOT LIMITED TO HAND SINKS, FAUCETS, HOSES, VACUUM BREAKERS, AND DISPOSERS TO BE HUNG/SET IN PLACE AND INSTALLED BY M.C.
- CHECK WITH ARCHITECT AND/OR OWNER FOR ANY ADDITIONAL PLUMBING CONNECTIONS, SUCH AS FLOOR DRAINS, DRAINS, AND ETC. ALSO CHECK FOR SERVICES TO EQUIPMENT WHICH IS NOT SHOWN OR SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR.
- MECHANICAL SERVICES SHOWN ON THIS PLAN ARE ACTUAL SIZE AT PIECE OF EQUIPMENT. LINES ARE TO BE RUN TO EQUIPMENT OF SIZE REQUIRED, OR AS STATED ON MECHANICAL ENGINEER'S DRAWINGS.
- SUGGESTED ROUGH-IN LOCATIONS HAVE BEEN SHOWN. MECHANICAL CONTRACTOR TO MAKE ADJUSTMENTS FOR BEAMS, FOOTINGS, AND ETC., IF REQUIRED.
- DO NOT PROVIDE SOFT WATER SUPPLIES TO COFFEE URNS, COFFEE MAKERS, WATER STATIONS, ICE MACHINES, & STEAM EQUIP. UNLESS OTHERWISE SPECIFIED. P.C. TO EXTEND THRU WATER FILTER PRIOR TO FINAL CONNECTION. P.C. TO VERIFY WATER QUALITY WITH EQUIPMENT SPECIFICATIONS.
- MECHANICAL CONTRACTOR TO EXTEND DRAIN OUTLETS FROM TROUGH(S), HOT WATER BOOSTER(S), ICE BIN(S) ICE MACHINE(S), SINK HEATER(S), ETC. TO ADJACENT FLOOR DRAIN.
- VERIFY WITH HEALTH AND PLUMBING CODES IF WASTES SHOULD BE DIRECT OR INDIRECT. ALSO VERIFY IF CLEAN WATER WASTES ARE REQ'D TO EMPTY INTO STORM SEWERS AND TELL TALE DRAINS ARE REQUIRED. DRAINS TO BE SUPPLIED AND INSTALLED BY P.C.
- QUICK GAS DISCONNECTS, (SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR), ARE TO BE INSTALLED BY MECHANICAL CONTRACTOR ON ALL GAS FIRED COOKING EQUIPMENT.
- THE MECHANICAL CONTRACTOR SHALL INSTALL A GAS SHUT-OFF VALVE(S) IN THE MAIN GAS SUPPLY LINE(S) TO THE FOOD SERVICE COOKING EQUIPMENT. THE VALVE(S) SHALL BE PROVIDED BY THE FIRE SUPPRESSION SYSTEM CONTRACTOR AS SUBCONTRACTOR TO KITCHEN EQUIPMENT CONTRACTOR.
- PLUMBING CONTRACTOR SHALL PROVIDE AND LOCATE GREASE INTERCEPTORS, AND RUN ALL APPLICABLE WASTE LINES THROUGH SUCH INTERCEPTORS AS DIRECTED BY MECHANICAL CONTRACTOR.
- ALL ROUGH-IN HEIGHTS AS SHOWN IN SCHEDULE ARE FROM FINISHED FLOOR TO CENTERLINE OF ROUGH-IN, AND SUCH ROUGH-INS SHALL STUB OUT OF WALL, FLOOR, OR CEILING AS NOTED AT SAID HEIGHT.
- MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL BACKFLOW PREVENTER DEVICE(S) AS REQUIRED BY CODE.

- MECHANICAL CONTRACTOR TO CONNECT DISHWASHER, STEAMER, COMBI OVEN, FLOOR TROUGH DRAINS TO SINK TAILPIECE WITH APPROVED AIR GAP FITTING. DRAIN PIPING TO WITHSTAND BOILING WATER.
- ALL FOOD PREPARATION SINKS SHALL BE CONNECTED TO AN INDIRECT DRAIN AND SHALL HAVE AN AIR GAP AT THE DRAIN EQUAL TO TWICE THE DIAMETER OF THE SINK DRAIN PIPING.
- DRAIN LINES SHALL BE TRAPPED OUTSIDE OF WALK-IN. FREEZER DRAIN SHALL BE HEATED AND INSULATED TO PREVENT FREEZING BY ELECTRICAL CONTRACTOR. P.C. TO INSULATE ALL CONDENSATE DRAIN LINES IN WALK-IN FREEZERS AND COOLERS USING ARMAFLEX.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL GAS REGULATORS AS REQUIRED FOR ALL KITCHEN EQUIPMENT.
- MECHANICAL CONTRACTOR SHALL SEAL ALL PLUMBING/PIPING FLOOR OPENINGS WATER-TIGHT. PROVIDE CHROME-PLATED REMOVABLE ESCUTCHEONS AT ALL WALL AND FLOOR PENETRATIONS. PROVIDE AND INSTALL SLEEVES THAT EXTEND 4" ABOVE FLOOR (OR RAISED BASE) AND SEAL OPENING BETWEEN SLEEVE AND PIPE.
- MECHANICAL CONTRACTOR SHALL CONCEAL AS MUCH PLUMBING AND PIPING AS POSSIBLE IN THE WALLS/FLOOR/CEILING CONSTRUCTION, MINIMIZE EXPOSED PIPING RUNS TO MAKE THEM AS SHORT AS POSSIBLE. EXPOSED PIPING SHALL BE 6" ABOVE THE FLOOR MINIMUM AND 1" OFF THE WALL MINIMUM. CHROME PLATE ALL EXPOSED PIPING.
- MECHANICAL CONTRACTOR SHALL INTERCONNECT DISPOSALS TO REMOTE CONTROL PANELS, BOWLS, AND TROUGH INLETS THROUGH SOLENOID VALVES AND FLOW CONTROLS, AND PROVIDE/INSTALL A SUPPLY SHOCK ABSORBER. INSTALLATION BY M.C.
- MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL "P" TRAPS WITH TAILPIECES, TO MEET CODES.
- M.C. TO TERMINATE ALL INDIRECT WASTE LINES 1" ABOVE THE FLOOD PLAIN OF FLOOR DRAINS OR RIM OF FLOOR SINKS; TO MEET LOCAL CODES.
- P.C. SHALL PROVIDE RIGID METAL SLEEVES THROUGH BEARING WALLS FOR ALL WATER, GAS, WASTE LINES, ETC.
- THIS EQUIPMENT IS OWNER/OWNER'S VENDOR SUPPLIED. VERIFY ROUGH-IN REQUIREMENTS WITH EQUIPMENT SUPPLIER.

LEGEND - PLUMBING CONNECTION	
○	HW-HOT WATER, OR CW-COLD WATER
●	GAS SUPPLY
●	WASTE, DIRECT-CONNECTED UNLESS NOTED "OPEN HUB"
⊠	FLOOR SINK WITH HALF GRATE UNLESS NOTED OTHERWISE
⊠	FLOOR SINK WITH 3/4 GRATE UNLESS NOTED OTHERWISE
⊠	FLOOR DRAIN
⊠	FLOOR DRAIN W/ ATTACHED FUNNEL
○	INDIRECT WASTE- STAND UP PIPE
●	FLOOR DRAIN
---	FIELD CONNECTIONS

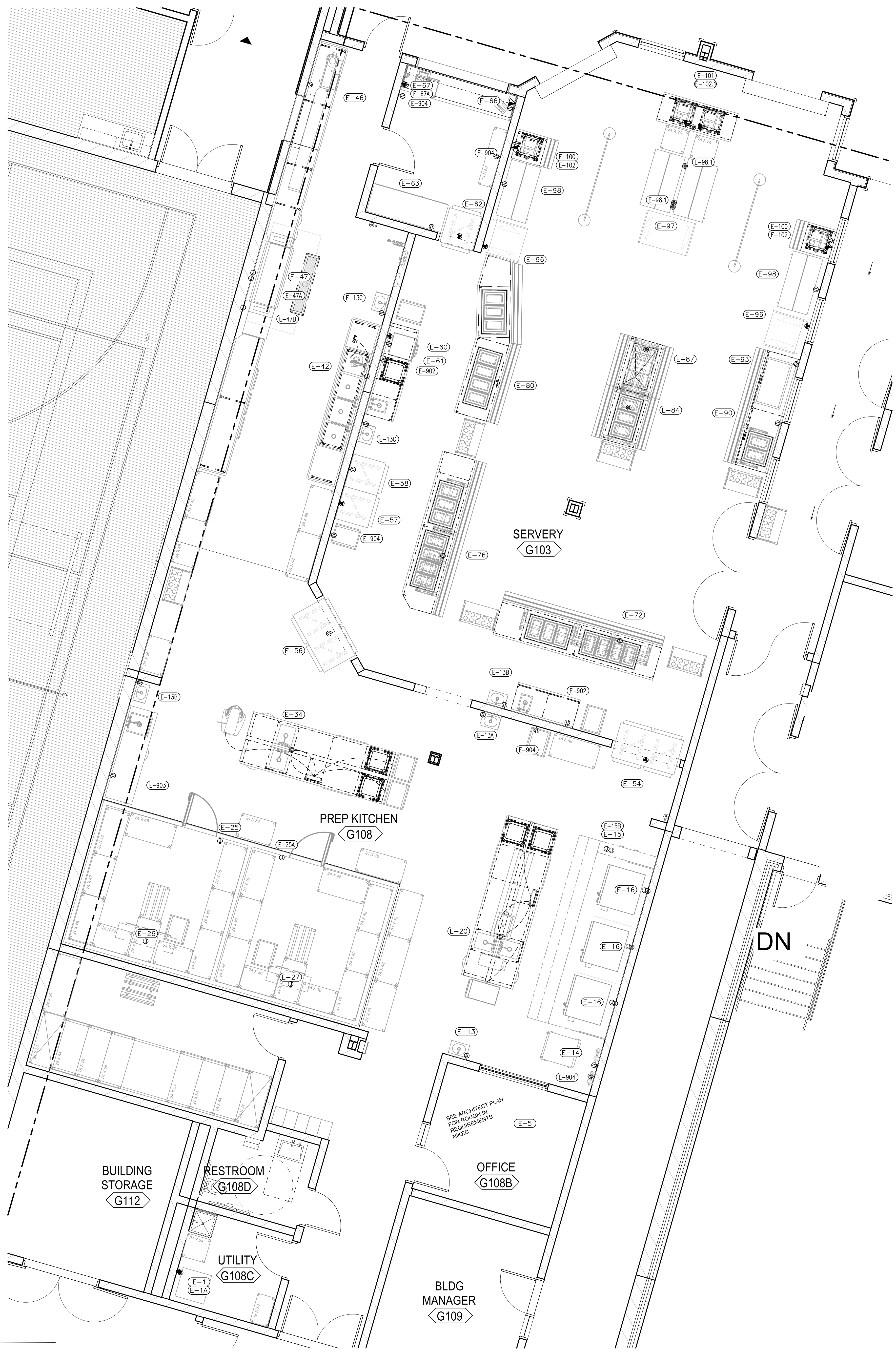


1 CONDIMENT/TRASH COUNTER PLAN
1/4" = 1'-0"

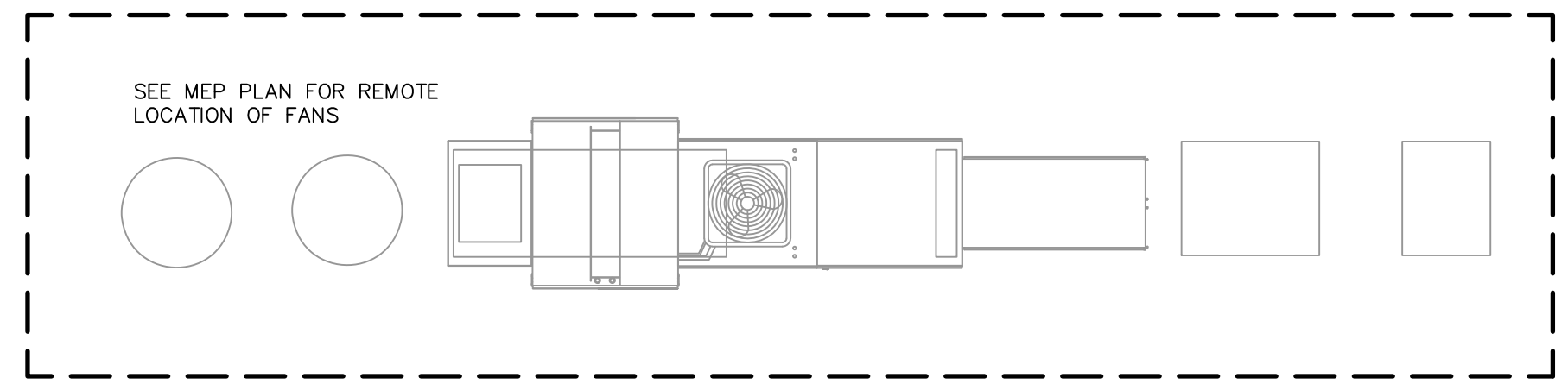


LEGEND - ELECTRICAL CONNECTION	
	DUPLEX RECEPT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNT
	SPECIAL PURPOSE OUTLET, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNT
	SPECIAL PURPOSE OUTLET, 208/240-VOLT AS INDICATED, GROUND TYPE, HORIZONTAL MOUNT
	JUNCTION BOX
	ELECTRICAL CONDUIT, STUB AS INDICATED FOR DIRECT CONNECTION
	FIELD WIRING, CONCEALED IN WALL, FLOOR, OR CEILING
	WALK-IN TEMPERATURE ALARM
	LIGHT SWITCH
	DATA CONNECTION

2 ELECTRICAL ROUGH-IN PLAN
1/4" = 1'-0"



B:\130211\130211-01 Lee's Summit Middle School 417524102.dwg Lee's Summit Middle School 417524102.dwg
 8/20/2010 10:20:42 AM



LEGEND - MECHANICAL CONNECTION	
	EXHAUST DUCT CONNECTION
	EXHAUST DUCT CONNECTION
	MAKE-UP AIR DUCT CONNECTION
	AC DUCT CONNECTION

MECHANICAL NOTES

1. ALL EXHAUST DUCTS SHALL BE FULLY WELDED, WATERTIGHT, CORROSION RESISTANT AND SHALL COMPLY WITH NFPA 96 AND ALL APPLICABLE CODES.
2. SEE MECHANICAL/ELECTRICAL ENGINEER'S DRAWINGS AND SPECIFICATIONS.
3. BY MECHANICAL/ELECTRICAL CONTRACTOR.
4. SEE MECHANICAL/ELECTRICAL ENGINEER'S DRAWINGS AND SPECIFICATIONS FOR FAN REQUIREMENTS.
5. ALL FINAL MECHANICAL CONNECTIONS TO EQUIPMENT, EXTERNAL AND INTERNAL PARTS, FITTINGS, AND ETC. TO MAKE EQUIPMENT OPERATIONAL, TO BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR, UNLESS OTHERWISE SPECIFIED.
6. ALL VERTICAL DUCT DROPS TO THE EXHAUST HOOD, CONDENSATE HOOD, AC, AND THE CEILING MAKE-UP AIR DIFFUSERS SHOULD NOT BE INSTALLED UNTIL THE EXHAUST HOOD, AC, MAKE-UP AIR DIFFUSERS ARE HUNG IN THEIR PERMANENT LOCATIONS.
7. IT IS RECOMMENDED TO LOCATE A CEILING EXHAUST GRILL OVER REACH-IN AND ROLL-IN REFRIGERATOR COMPRESSORS TO ALLOW FOR BETTER VENTILATION OF UNITS.

MECHANICAL ROUGH-IN PLAN
1/4" = 1'-0"

VENTILATION SERVICE SCHEDULE												
ITEM NO	QTY	EQUIPMENT CATEGORY	HVAC EXHAUST DUCT SIZE (IN)	HVAC EXHAUST CFM	HVAC EXHAUST SPWG	HVAC MAKE-UP DUCT SIZE (IN)	HVAC MAKE-UP CFM	HVAC MAKE-UP SPWG	AC DUCT SIZE (IN)	AC CFM	AC SPWG	HVAC REMARKS
1	1	WASHER & DRYER	4									NIKEC, VERIFY ROUGH-IN REQUIREMENTS WITH SUPPLIER SEE MANUFACTURES DRAWINGS, SEE NOTES
15	1	EXHAUST HOOD	(2)14" DIA	1312	-0.152	(12)10" DIA	196	0.073				SEE MANUFACTURES DRAWINGS, SEE NOTES
47	1	DISHMACHINE W/ BLOWER	4X16	200					(10)8" DIA	117	.043	SEE MANUFACTURES DRAWINGS, SEE NOTES LOAD END UNLOAD END

B:\130101\13010104\Lee's Summit Middle School 4\13010104\Lee's Summit Middle School 4_ARCH\13010104.rvt
 2/28/2019 10:20:42 AM