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BERKS COUNTY INTERMEDIATE UNIT COMMONS

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BERKS COUNTY.
PENNSYLVANIA

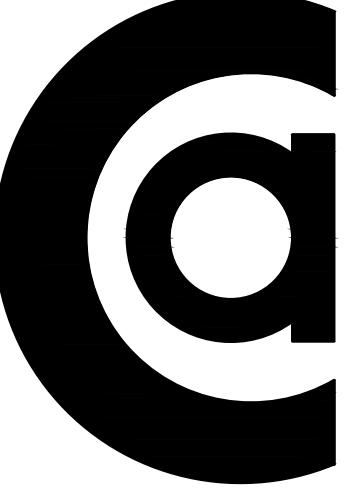
drawn by:	M.A.CORSI
reviewed by:	J. GRIMES
scale:	1/4" = 1'-0"
date:	10/07/2025
project #:	25-036

FOODSERVICE EQUIPMENT PLAN AND SCHEDULE

FS-1.0

EQUIPMENT SCHEDULE

ITEM NO.	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS
01	2	SINK, HAND, WALL MOUNT	EAGLE GROUP	HSAP-14-ADA-FW	
02	2	TRASH CAN, SLIM	RUBBERMAID	FG354060GRAY	
03	1	DISPOSER, GARBAGE	SALVAJOR	300-CA-ARSSL	
04	1	POT SHELF, WALL MOUNT	EAGLE GROUP	WSP1236	
05	1	DISHTABLE, L-SHAPED, SOILED	EAGLE GROUP		
06	1	POT SHELF, WALL MOUNT	EAGLE GROUP	WSP1260	
07	1	WAREWASHER, DOOR TYPE, HIGH TEMP	INSINGER MACHINE COMPANY	COMMANDER 18-6 ELECTRIC	
07.1	1	CONDENSATE HOOD	CAPTIVE AIRE		
08	1	WIRE SHELVING, 5-TIERS, 74"H POSTS	METRO	PR2454NK3	
09	1	EXHAUST HOOD	CAPTIVE AIRE		
10	1	DISHTABLE, STRAIGHT	EAGLE GROUP	CDTR-60-14/3	
11	2	SHELF, WALL MOUNT	EAGLE GROUP	WS1248-14/3	
12	1	TABLE, WORK W/ DBL PREP SINK	EAGLE GROUP	T3672SE-BS	
13	1	RANGE, RESTAURANT, GAS	GARLAND	G48-4G24LL	
14	1	BUFFET/CAFETERIA, TRAY STAND	DUKE MANUFACTURING	TTs-32SS	
15	1	BACK SERVING COUNTER	EAGLE GROUP	CUSTOM	
16	1	HAND SINK, DROP-IN	EAGLE GROUP	SR10-14-5-1	
17	1	FRONT SERVING COUNTER	DUKE MANUFACTURING		
18	1	REFRIGERATOR, UNDERCOUNTER	CONTINENTAL	UC48SN	
19	1	CABINET, MOBILE, WARMING & HOLDING	METRO	HBCW8-AS-UC	
20	1	HEATED ZONE MERCHANDISER	HATCO	HZMH-30D	
21	1	HEATED STONE SHELVES	HATCO	GRSSB-3618	
22	1	FOOD SHIELD, ADJUSTABLE	PREMIER METAL & GLASS	FM2R-A	
23	1	DROP-IN, HOT WELLS	WELLS	SS-10ULTD	
24	1	WIRE SHELVING, 5-TIERS, 74"H POSTS	METRO	PR1860NK3	
25	2	WIRE SHELVING, 5-TIERS, 74"H POSTS	METRO	PR1836NK3	
26	2	GARBAGE CAN, 55 GAL.	RUBBERMAID	FG265500GRAY	
27	1	WIRE SHELVING, 5-TIERS, 74"H POSTS	METRO	PR2436NK3	
28	1	OPEN COUNTER	DUKE MANUFACTURING		
29	1	OVEN, MICROWAVE	PANASONIC	NE-1025F	
30	1	P.O.S. SYSTEM	N.I.C. - BY OTHERS		
X-01	1	EXISTING EXHAUST HOOD			EXISTING; REMOVED
X-02	1	EXISTING CONVECTION OVEN, ELECTRIC, DBL STACKED	DUKE	E SERIES	EXISTING; REMAIN
X-03	1	EXISTING CONVECTION STEAMER	GROEN	VRC-6E	EXISTING; REMOVED
X-04	1	EXISTING 6-BURNER RANGE	VULCAN		EXISTING; REMOVED
X-05	1	EXISTING WORK TABLE			EXISTING; REMOVED
X-06	1	EXISTING SANDWICH PREP REFRIGERATOR	CONTINENTAL REFRIGERATOR	SW48N12	EXISTING; RELOCATED
X-07	1	EXISTING WORK TABLE			EXISTING; REMOVED
X-08	1	EXISTING WORK TABLE			EXISTING; MODIFY TO INCLUDE CASTORS W/ BRAKES
X-09	1	EXISTING HAND SINK	ADVANCE TABCO		EXISTING; RELOCATED
X-10	1	EXISTING 20 QT. MIXER	THUNDERBIRD		EXISTING; RELOCATED
X-11	1	EXISTING WIRE SHELVING			EXISTING; REMOVED
X-12	1	EXISTING WIRE SHELVING			EXISTING; REMOVED
X-13	1	EXISTING REACH-IN REFRIGERATOR	BEVERAGE-AIR	KR48-1AS	EXISTING; RELOCATED
X-14	1	EXISTING REACH-IN FREEZER	BEVERAGE-AIR	KF48-1AS	EXISTING; RELOCATED
X-15	1	EXISTING POPCORN MACHINE	STAR		EXISTING; RELOCATED
X-16	1	EXISTING WARMING DISPLAY CASE			EXISTING; RELOCATED
X-17	1	EXISTING PANINI MAKER			EXISTING; RELOCATED
X-18	1	EXISTING ICE MAKER W/ BIN	KOOL AIR	KYT0500A-161	EXISTING; RELOCATED
X-19	1	EXISTING DISPLAY REFRIGERATOR	TRUE	GDM-26F-HC~TSL01	EXISTING; RELOCATED
X-20	1	EXISTING P.O.S. SYSTEM			EXISTING; REMOVED



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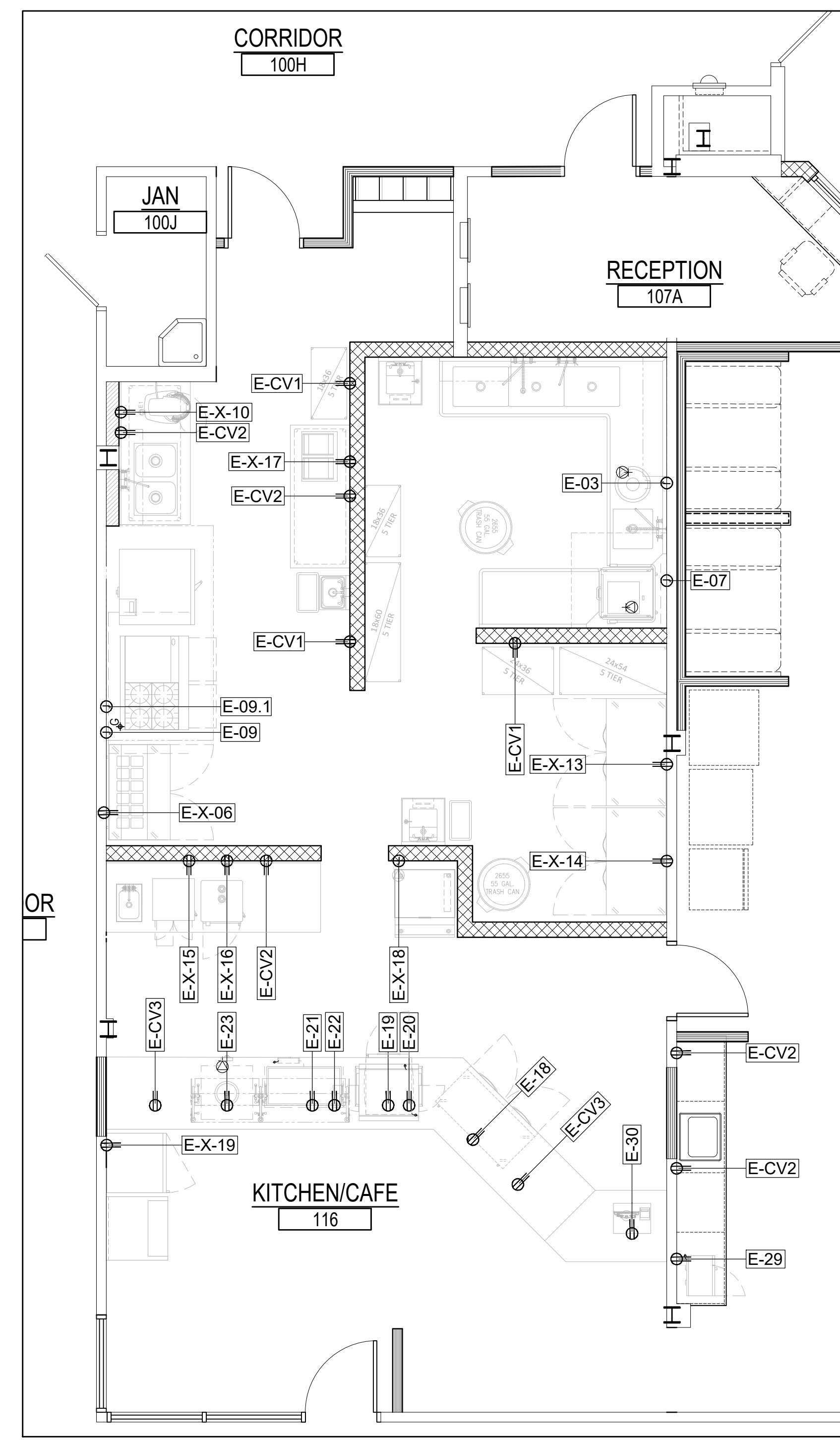
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FOODSERVICE ELECTRICAL PLAN AND SCHEDULE

FS-1.1

E L E C T R I C A L S C H E D U L E										
ITEM NO.	DESCRIPTION	AMPS	KW	HP	VOLTS	PHASE	DIRECT	PLUG	NEMA	HT CONN (IN.)
03	DISPOSER, GARBAGE	8.8		3.0	208	3	X			24
07	WAREWASHER, DOOR TYPE, HIGH TEMP	23.8			480	3	X			66
09	EXHAUST HOOD W/ CONTROL CABINET	10.0			120	1	X			DFA
09.1	FIRE SUPPRESSION	20.0			120	1	X			DFA
18	REFRIGERATOR, UNDERCOUNTER	2.5		1/5	120	1		X	5-20P	6
19	CABINET, MOBILE, WARMING & HOLDING	18.8	2.2		120	1		X	L5-30P	6
20	HEATED ZONE MERCHANDISER	11.3	2.7		120/208	1		X	L14-20P	6
21	HEATED STONE SHELVES	7.8	0.9		120	1		X	5-20P	6
22	FOOD SHIELD, ADJUSTABLE	10.0			120	1		X	5-20P	6
23	DROP-IN, HOT WELLS	15.0	0.8		208/240	1	X			6
29	OVEN, MICROWAVE	13.4	1.0		120	1		X	5-20P	48
30	P.O.S. SYSTEM	15.0			120	1		X	5-20P	6
X-06	EXISTING SANDWICH PREP REFRIGERATOR	4.8		1/4	120	1		X	5-20P	48
X-10	EXISTING 20 QT. MIXER	14.0		3/4	120	1		X	5-20P	48
X-13	EXISTING REACH-IN REFRIGERATOR	9.2		1/3	120	1		X	5-20P	48
X-14	EXISTING REACH-IN FREEZER	10.5		3/4	120	1		X	5-20P	48
X-15	EXISTING POPCORN MACHINE	15.0			120	1		X	5-20P	48
X-16	EXISTING WARMING DISPLAY CASE	15.0			120	1		X	5-20P	48
X-17	EXISTING PANINI MAKER	15.0			120	1		X	5-20P	48
X-18	EXISTING ICE MAKER W/ BIN	16.2			120	1	X			48
X-19	EXISTING DISPLAY REFRIGERATOR	9.5	1.1	1.0	120	1		X	5-20P	48
CV1	CONVENIENCE OUTLET	15.0			120	1		X	5-20P	24
CV2	CONVENIENCE OUTLET	15.0			120	1		X	5-20P	48
CV3	CONVENIENCE OUTLET	15.0			120	1		X	5-20P	6





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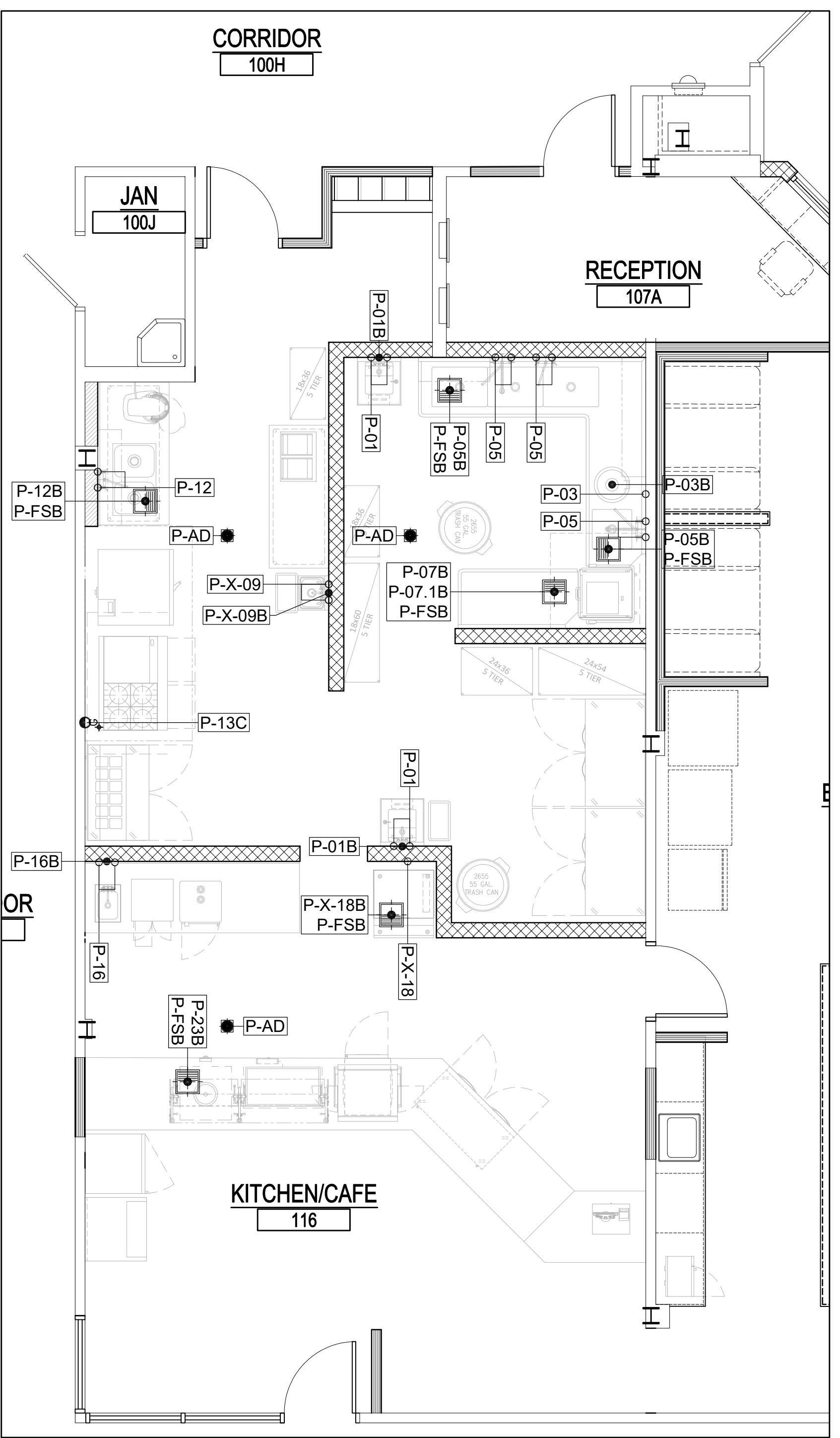
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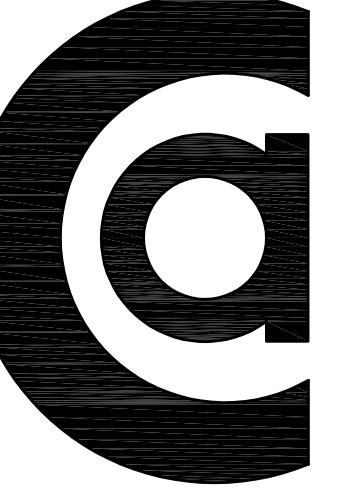
FOODSERVICE PLUMBING PLAN AND SCHEDULE

FS-1.2

PLUMBING SCHEDULE

ITEM NO.	DESCRIPTION	COLD WATER SIZE (IN.)	HOT WATER SIZE (IN.)	WATER HT AFF. (IN.)	INDIR. DRAIN SIZE (IN.) [B]	DIRECT DRAIN SIZE (IN.) [B]	DRAIN HT AFF. (IN.)	GAS SIZE (IN.)	MBTUH	GAS AFF. (IN.)	PLUMBING REMARKS
01	SINK, HAND, WALL MOUNT	1/2	1/2	18		1 1/2	24				
03	DISPOSER, GARBAGE	1/2		18		2	16				
05	DISHTABLE, L-SHAPED, SOILED	1/2	1/2	18	1 1/2						
07	WAREWASHER, DOOR TYPE, HIGH TEMP		1/2	24	1 1/2						140 MINIMUM HOT WATER TEMP REQUIRED
07.1	CONDENSATE HOOD				3/4						
12	TABLE, WORK W/ DBL PREP SINK	1/2	1/2	18	1 1/2						
13	RANGE, RESTAURANT, GAS							3/4	232	30	
16	HAND SINK, DROP-IN	1/2	1/2	18		1 1/2	24				
23	DROP-IN, HOT WELLS				1/2						
X-09	EXISTING HAND SINK	1/2	1/2	18		1 1/2	24				KEC TO VERIFY UTILITIES INFORMATION
X-18	EXISTING ICE MAKER W/ BIN	3/8		18	3/4						KEC TO VERIFY UTILITIES INFORMATION
AD	AREA DRAIN					3					*DRAIN TO FLOOR
FS	FLOOR SINK					4					*DRAIN TO FLOOR





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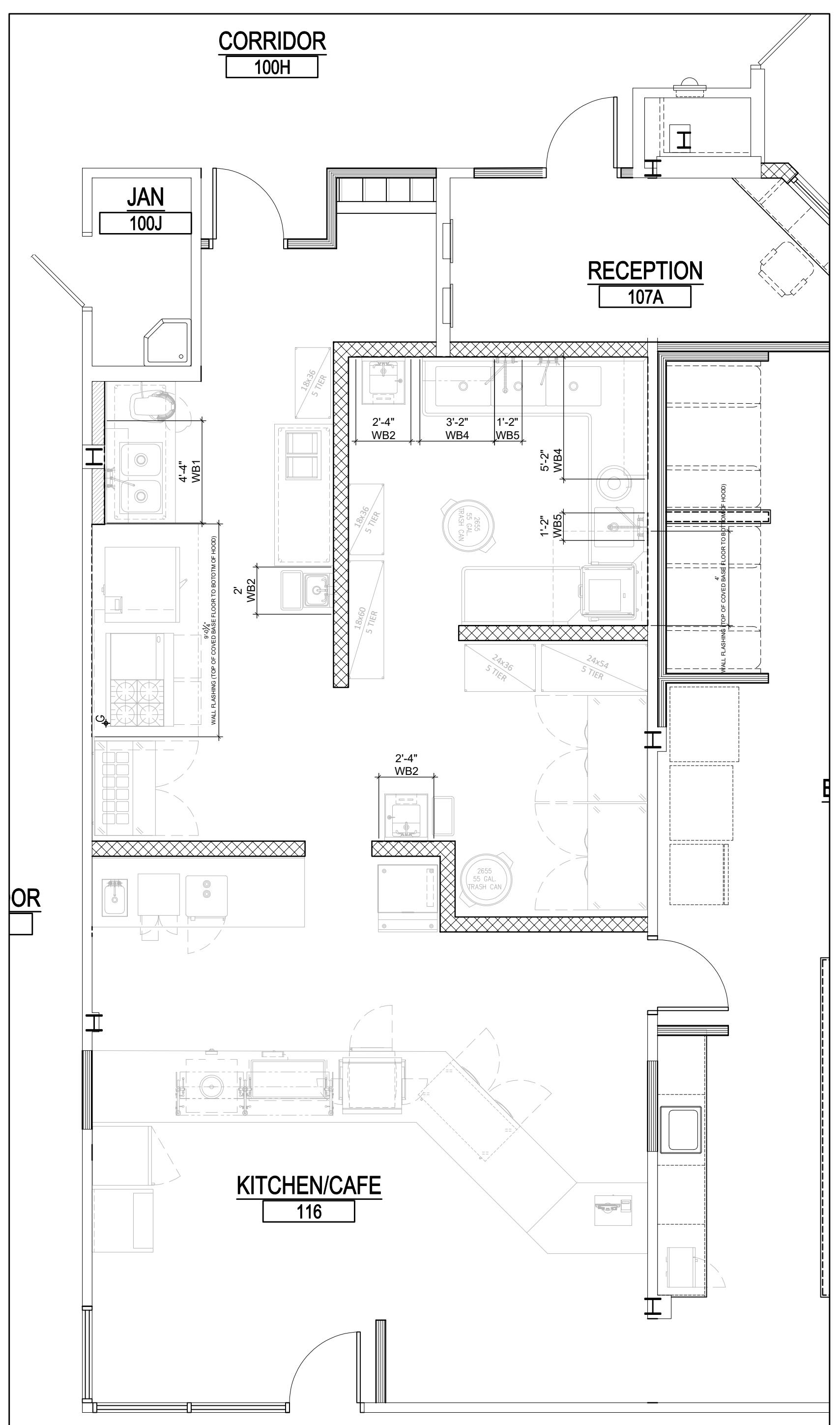
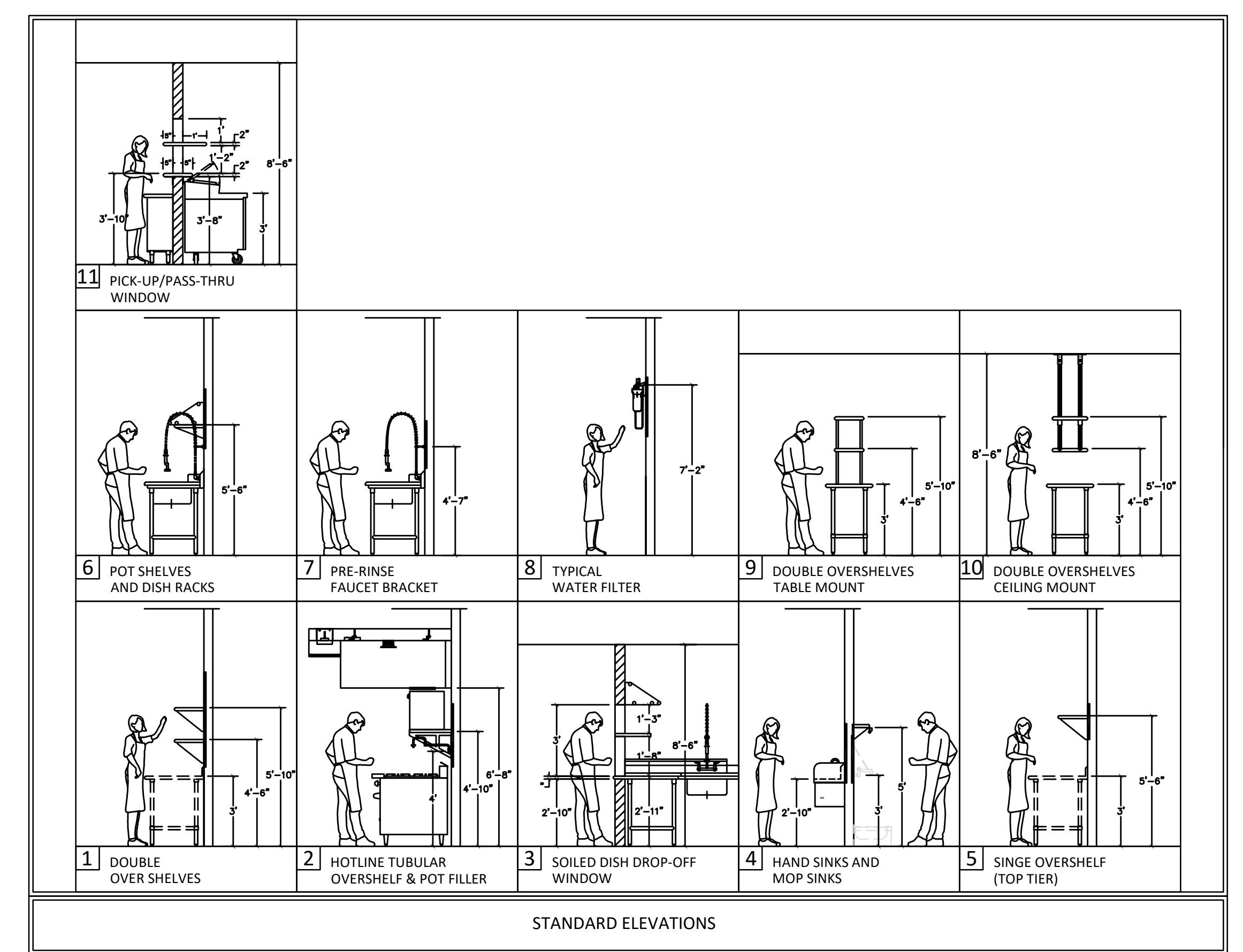
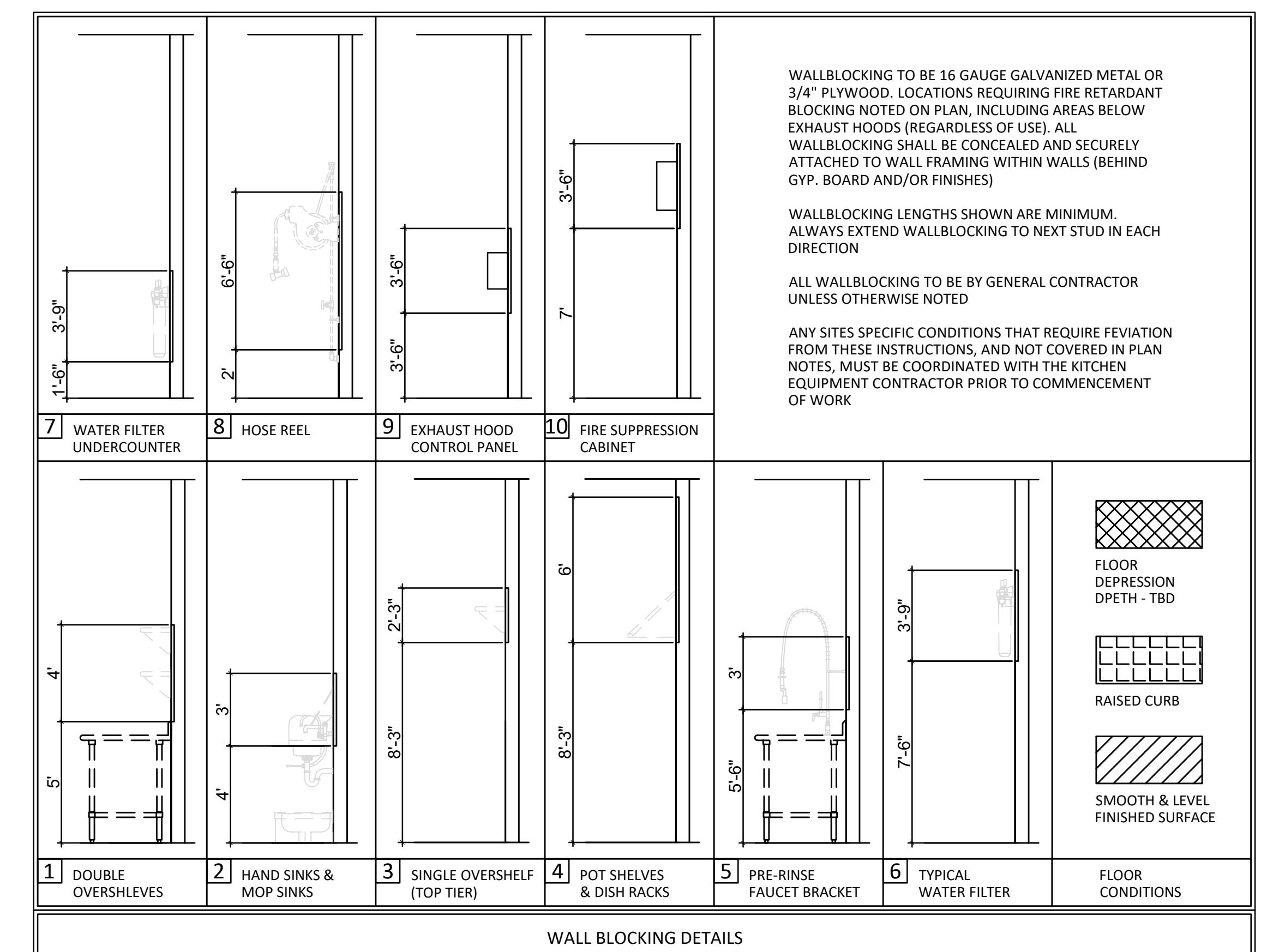
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FOODSERVICE SPECIAL CONDITIONS PLAN

FS-1.3



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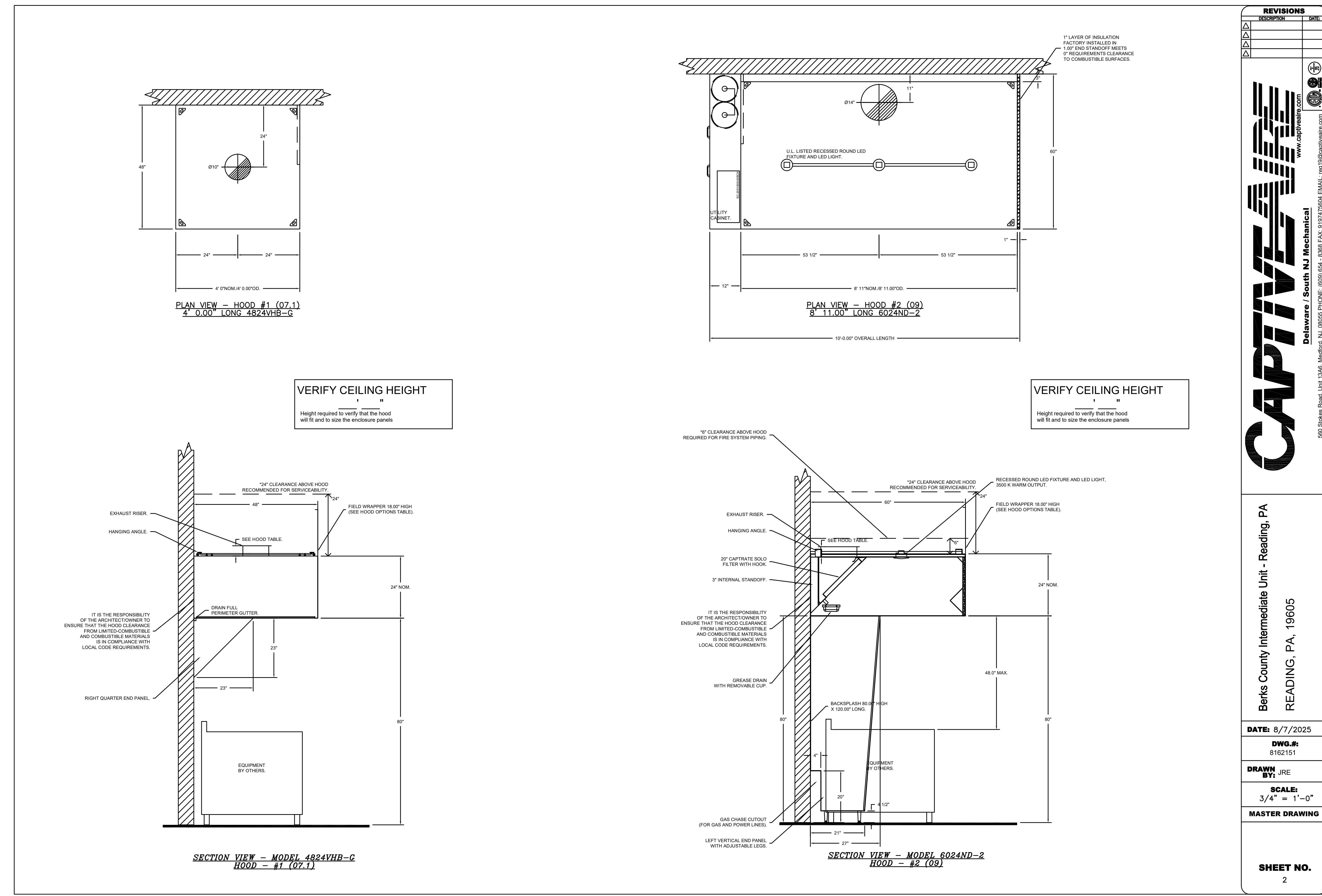
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FOODSERVICE EXHAUST HOOD DETAILS

FS-2.1



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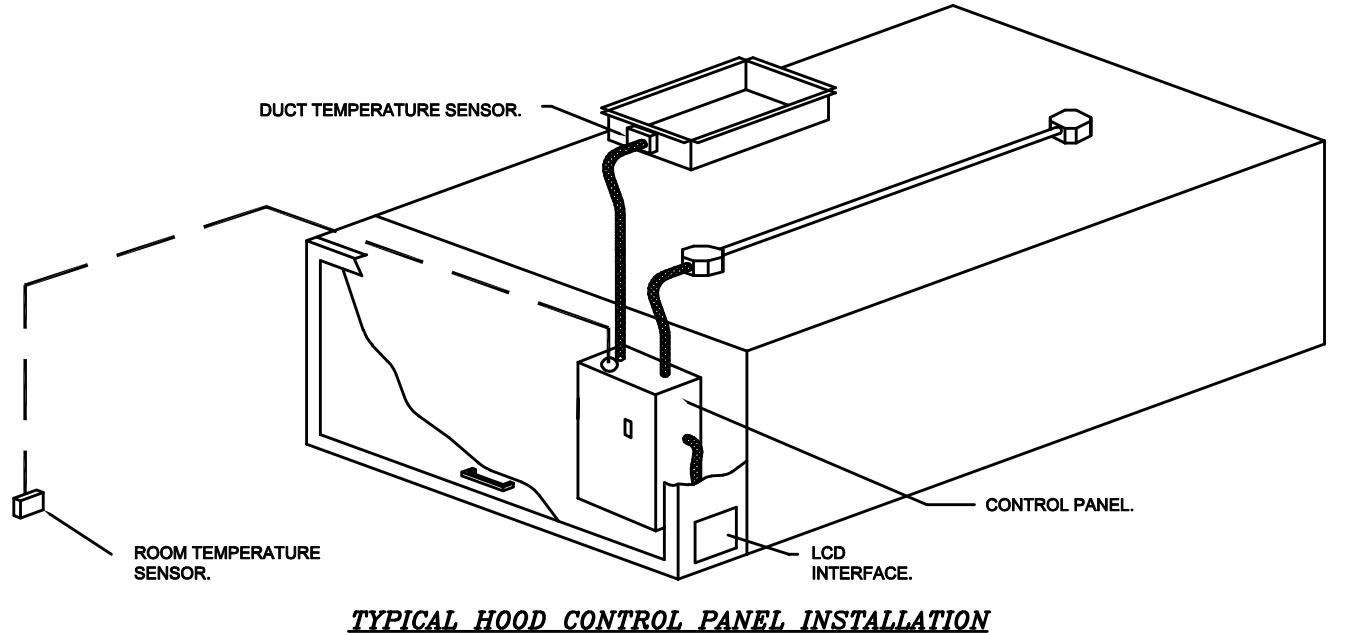
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FOODSERVICE EXHAUST HOOD DETAILS

FS-2.2

DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDs) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDs BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
 - A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
 - B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
 - C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
 - G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDs.



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY

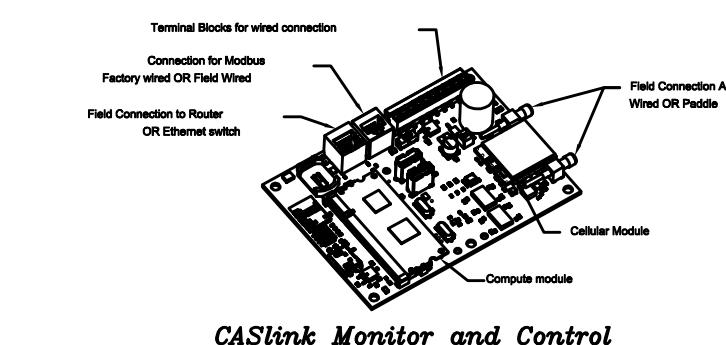
THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 102.7.5 (2021).

EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN THE SYSTEM OPERATES BASED ON A MAXIMUM INPUT FROM AN UNPREDICTED

- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.

- **OTHER:** THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- **FIRE:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A AUTOMATIC VALVE SETTING. ACTIVATED BY THE HOOD FIRE SUPPRESSION SYSTEM.



CASlink Monitor and Control

- 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.

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

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Berks County Intermediate

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