

ABBREVIATIONS	
ACC	ACCESSIBLE
ACP	ACOUSTICAL CEILING
PANEL	AD
AD	AREA DRAIN
AF	ABOVE FINISHED FLOOR
AFF	AIR HANDLING UNIT
AHU	ALTERNATE
ALT	ALUMINUM
ALUM	ANODIZED
ANOD	APPROXIMATE
APPROX	ARCHITECT.
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BCT	BABY CHANGING TABLE
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BO	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
CB	CATCH BASIN
CG	CORNER GUARD
CH	CURT HOOK
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY
UNIT	CO
CO	CLEAN OUT, CASERD
OPENING	COL
COLUMN	CONT
CONTINUOUS, CONTINUE	CSWK
CASEWORK	CTR
CUBIC	CU
D	DEEP, DEPTH
DEMO	DEMOLISH, DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL DIAGRAM
DD	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
E	EAST
EFS	EXTERIOR INSULATION
AND	EQ
FINISH SYSTEM	EL
EXPANSION JOINT	ELEC
ELEVATION	ELEV
ELECTRICAL	ENCL
ELEVATOR	ENCL
ENCLOSURE	EP
ELECTRICAL PANEL	EQ
EQUAL	EXIST
EQUIPMENT	EXH
EXISTING	EXP
EXHAUST	EXTR
EXPANSION, EXPOSED	FA
EXTERIOR	FOC
FIRE ALARM	FIRE ALARM
FURNISHED BY CONTRACTOR/	FOID
CONTRACTOR/	FD
INSTALLED BY CONTRACTOR/	FDC
FURNISHED BY CONTRACTOR/	FDN
INSTALLED BY OWNER	FE
FLOOR DRAIN	FH
FIRE DEPARTMENT	FHC
CONNECTION	FIG
FOUNDATION	FIN
FIRE EXTINGUISHER	FO
FIRE HYDRANT	FOC
FIRE HOSE CABINET	FOID
FIGURE	FP
FINISH, FINISHED	FR
FACE OF FINISHED	FRT
SUSP	FS
OPENING	FT
FURNISHED BY OWNER/	GA
CONTRACTOR	GALV
FURNISHED BY OWNER/	GB
INSTALLED BY OWNER	GEN
FIRE PROTECTION,	GFRG
FIREPROOF	GFRG
FRAME, FIRE RATED	GFRP
FIRE RETARDANT	GL
TREATED	GYP
FLOOR SINK	GYP BD
FOOT, FEET	HB
GAUGE	HDW
GALVANIZED	HO
GRAB BAR	HRZ
GENERAL GENERATOR	HR
VERT	HVAC
GLASS-FIBER	AND
REINFORCED	AIR-CONDITIONING
CONCRETE	ID
GLASS-FIBER	INFO
REINFORCED	INSUL
GYPSUM	INT
GLASS-FIBER	IWD
REINFORCED	JT
W	KIT
WEST, WIDE	
WITH	
WITHOUT	
WATER CLOSET,	
WALLCOVERING	
WOOD	
WALL HYDRANT	
WEATHERPROOF,	
WEATHERPROOFING, WORK	
WATERPROOFING, WORK	
POINT	
HORIZONTAL	
HOUR	
HEIGHT	
HEATING, VENTILATING	
AND	
AIR-CONDITIONING	
INSIDE DIAMETER	
INFORMATION	
INSULATE, INSULATION	
INTERIOR	
INDIRECT WASTE DRAIN	
JT	
JOINT	
KIT	
KITCHEN	

ITEM / DESCRIPTION	LANDLORD		OWNER		GC		VENDOR	
	FURNISHED	INSTALLED	FURNISHED	INSTALLED	FURNISHED	INSTALLED	FURNISHED	INSTALLED
CONSTRUCTION FENCE / BARRICADE					X	X		
TEMPORARY UTILITIES / LIGHTING					X	X		
DEMISING WALL	X	X						
RESTROOMS					X	X		
STOREFRONT MODIFICATIONS					X	X		
ROOFING REPAIRS					X	X		
HVAC EQUIPMENT					X	X		
GREASE INTERCEPTOR					X	X		
GAS METER	X	X						
GAS STUB TO SPACE	X	X						
ELECTRICAL METER	X	X						
ELECTRICAL CONDUIT TO SPACE	X	X						
ELECTRICAL PANELS	X	X						
TELEPHONE CONDUIT TO SPACE	X	X						
WATER METER / SUBMETER	X	X						
WATER BACKFLOW PREVENTOR	X	X						
WATER STUB TO SPACE	X	X						
FIRE RISER	X	X						
FIRE SPRINKLER SYSTEM MODIFICATIONS					X	X		
FIRE ALARM SYSTEM MODIFICATIONS					X	X		
FLOOR & WALL FINISHES					X	X		
PIZZA OVEN					X	X		
PIZZA OVEN EXHAUST					X	X		
CASEWORK					X	X		
SODA MACHINE					X	X		
KITCHEN EQUIPMENT					X	X		

SEPARATE PERMITS	
A. TENANT SIGNAGE	
B. FIRE SPRINKLER MODIFICATIONS	
C. FIRE ALARM MODIFICATIONS	
ELECTRICAL UNDER ENR21-08109	

SCOPE OF WORK	
TENANT IMPROVEMENT OF AN EXISTING INTERIOR SPACE IN AN EXISTING MULTI-TENANT SINGLE-LEVEL BUILDING FOR A FAST CASUAL DINING PIZZA RESTAURANT. WORK MAY INCLUDE: NON-STRUCTURAL PARTITIONS, INTERIOR DOORS, SUSPENDED CEILINGS, LIGHTING, FINISHES, FURNITURE / CASEWORK / FOOD SERVICE EQUIPMENT INSTALLATION, ASSOCIATED HVAC / PLUMBING / ELECTRICAL / GAS / TELECOMMUNICATION SYSTEMS, PIZZA OVEN EXHAUST SYSTEM, DOOR, FIRE SPRINKLER MODIFICATIONS, FIRE ALARM MODIFICATIONS	

GENERAL NOTES	
1. DO NOT SCALE THE DRAWINGS.	
2. VERIFY FIELD CONDITIONS PRIOR TO COMMENCEMENT OF EACH PORTION OF THE WORK.	
3. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE BINDING IF REQUIRED BY ALL. THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT FOR RESOLUTION OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION.	
4. DIMENSIONS ARE TO THE STRUCTURAL GRID OR TO FINISH SURFACES, UNLESS OTHERWISE INDICATED.	

REFERENCE SYMBOLS	
SECTION SHEET NUMBER	
DETAIL SHEET NUMBER	
SECTION DETAIL INDICATOR	
INTERIOR ELEVATION INDICATOR	
SECTION SHEET NUMBER	
ELEVATION SHEET NUMBER	
WALL SECTION INDICATOR	
EXTERIOR ELEVATION INDICATOR	
ROOM 2022 ROOM NAME AND NUMBER	
DATUM INDICATOR	
2-HOUR FIRE RATED	
1-HOUR FIRE RATED	
STRUCTURAL GRID	
NEW CONSTRUCTION	
EXISTING TO REMAIN	
EXISTING TO BE REMOVED	
LEASE LINE	

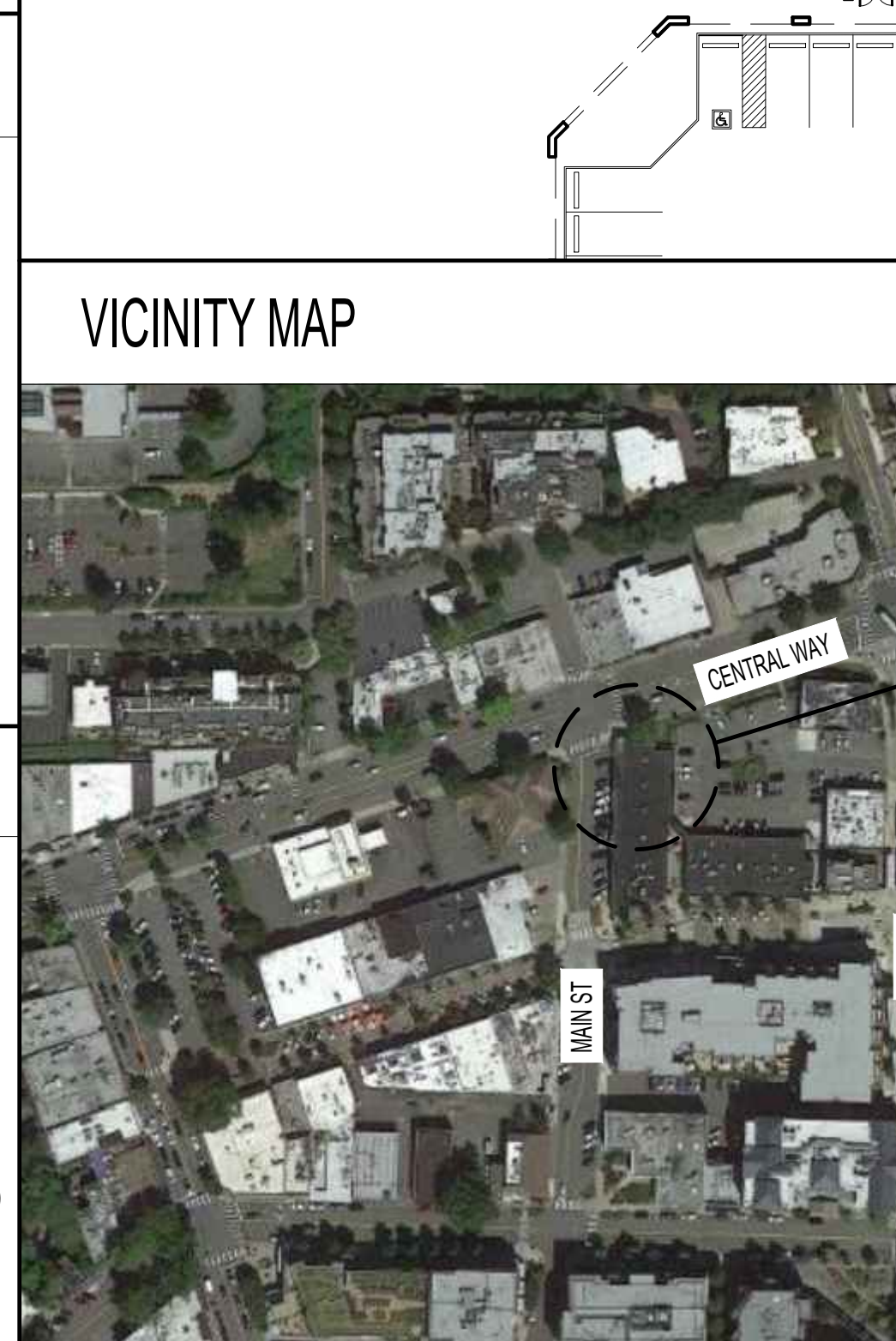
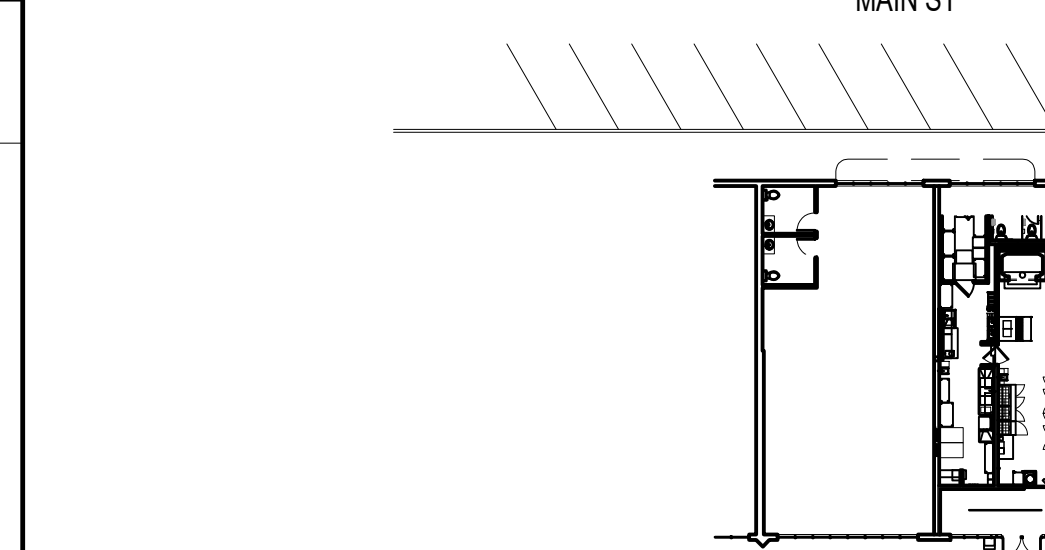
ITEM / DESCRIPTION	LANDLORD		OWNER		GC		VENDOR	
	FURNISHED	INSTALLED	FURNISHED	INSTALLED	FURNISHED	INSTALLED	FURNISHED	INSTALLED
FURNITURE & SEATING					X	X		
SHELVING					X	X		
LIGHTING					X	X		
EXTERIOR SIGNAGE					X	X		
INTERIOR SIGNAGE					X	X		
GRAPHICS					X	X		
SMALL WARES					X	X		
ICE MACHINE					X	X		
WINDOW SHADES					X	X		

BUILDING CODE INFORMATION	
JURISDICTION: KIRKLAND, WA	
LEASE AREA: 3,411 SF SINGLE STORY	
APPLICABLE CODES:	
BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE	
EXISTING BUILDING CODE: 2018 INTERNATIONAL EXISTING BUILDING CODE	
ELECTRICAL CODE: 2017 WASHINGTON CITIES ELECTRICAL CODE	
MECHANICAL CODE: 2018 WASHINGTON STATE MECHANICAL CODE	
PLUMBING CODE: 2018 WASHINGTON STATE PLUMBING CODE	
FIRE CODE: 2018 WASHINGTON STATE FIRE CODE	
ENERGY CODE: 2018 INTERNATIONAL ENERGY CONSERVATION CODE	
LOCAL ZONING CODE: KIRKLAND MUNICIPAL CODE	
ACCESSIBILITY CODE: 2009 ANSI A117.1	
HEALTH CODE: WASHINGTON STATE RETAIL FOOD CODE	
OCCUPANCY GROUP: A-2 RESTAURANT	
CONSTRUCTION TYPE: VB	
SEISMIC DESIGN CATEGORY: D	
SPRINKLERED: YES (MODIFICATIONS)	
FIRE ALARM SYSTEM: YES (MODIFICATIONS)	

PROJECT DIRECTORY	
PROPERTY OWNER: PANOS PROPERTIES LLC	
6860 E. GREEN LAKE WAY N, STE. 201	
SEATTLE, WA 98115	
CONTACT: ROGER BACHMAN	
PHONE: 206-527-3565	
EMAIL: ROGER@PANOSPROPERTIESLLC.COM	
TENANT: MOD SUPER FAST PIZZA, LLC	
2035 158TH CT NE	
BELLEVUE, WA 98008	
CONTACT: KATHY MANN	
PHONE: 360-567-7655	
EMAIL: KATHY.MANN@MODPIZZA.COM	
CONSTRUCTION MANAGER: CONTACT: PHIL ROCHE	
PHONE: 305-333-4933	
EMAIL: JEANPHILIPPE.ROCHE@MODPIZZA.COM	
ARCHITECT: GRAPHITE DESIGN GROUP, LLC	
1809 SEVENTH AVE, #700	
SEATTLE, WA 98101	
ARCHITECT OF RECORD: CONTACT: MATT MAREK	
PHONE: 206-519-5132	
EMAIL: MATT.MAREK@GRAPHITEDESIGNGROUP.COM	
ENGINEER: M-ENGINEERING	
750 BROOKSEDGE BLVD	
WESTERVILLE, OH 43081	
CONTACT: BRENT MCCLURE	
PHONE: 614-839-4639	
EMAIL: BMCCLURE@ENGINEERING.US.COM	
STRUCTURAL: ARMOUR UNSDERFER ENGINEERING	
555 116TH AVE NE, #118	
BELLEVUE, WA 98004	
CONTACT: SHALINI PROCHAZKA	
PHONE: 425-614-0949 x106	
EMAIL: SHALINI@AU-ENG.COM	

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SITE MAP	
Separate FIR permits required for:	
- Sprinklers	
- Fire Alarm	
- Underground supply	
- Hood and duct suppression	
- Fire Alarm (hood and duct tie-in)	

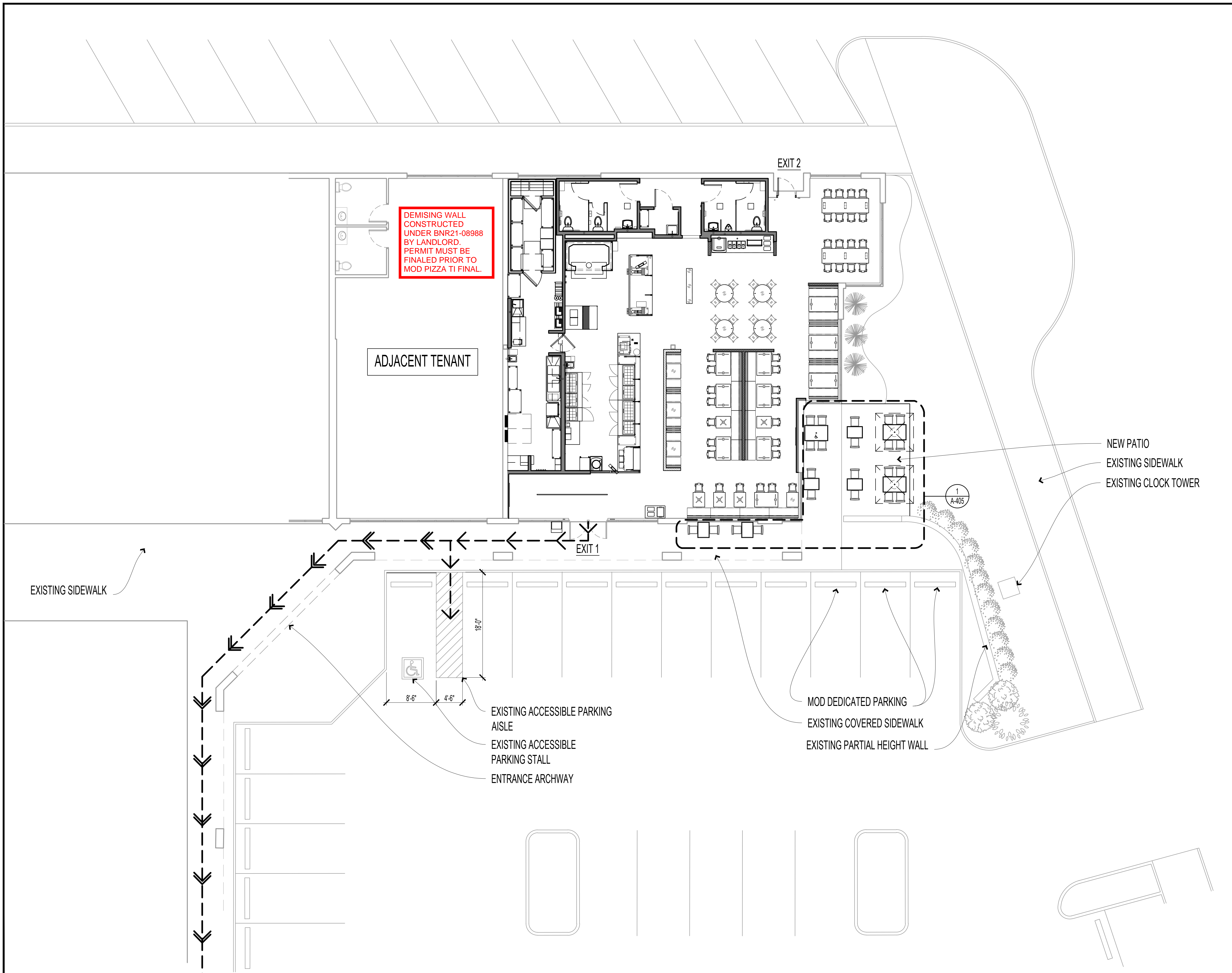


DRAWING INDEX	
PERMIT	
ISSUED / REVISED	
PERMIT/BID SET	
DATE	
10.15.21	

MOD	
2035 158th CT NE	
Suite 200	
Bellevue, WA 98008	
ARCHITECT OF RECORD	
GRAPHITE	
Graphite Design Group, LLC	
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Seattle, WA 98101	
206.224.3335	
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9335 REGISTERED ARCHITECT	
MARTIN LEE HILL	
STATE OF WASHINGTON	
10.15.21	
DOWNTOWN KIRKLAND	
230 MAIN STREET	
KIRKLAND, WA 98033	
ISSUED / REVISED	
DATE	
PERMIT/BID SET	
10.15.21	
MOD CD TEMPLATE V2.1	
PERMIT SET	
10.15.21	
A-001	
GENERAL INFORMATION	

ABBREVIATIONS	
ACC	ACCESSIBLE
ACP	ACOUSTICAL CEILING
PANEL	AD
AD	AREA DRAIN
AF	ABOVE FINISHED FLOOR
AFF	AIR HANDLING UNIT
AHU	ALTERNATE
ALT	ALUMINUM
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ARCH	ARCHITECTURAL
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AV	AUDIO VISUAL
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BD	BOARD
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CH	CURT HOOK
CL	CENTERLINE
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CLR	CLEAR
CMU	CONCRETE MASONRY
UNIT	CO
CO	CLEAN OUT, CASERD
OPENING	COL
COLUMN	CONT
CONTINUOUS, CONTINUE	CSWK
CASEWORK	CTR
CUBIC	CU
D	DEEP, DEPTH
DEMO	DEMOLISH, DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL DIAGRAM
DD	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
E	EAST
EFS	EXTERIOR INSULATION
AND	EQ
FINISH SYSTEM	EL
EXPANSION JOINT	ELEC
ELEVATION	ELEV
ELECTRICAL	ENCL
ELEVATOR	ENCL
ENCLOSURE	EP
ELECTRICAL PANEL	EQ
EQUAL	EXIST
EQUIPMENT	EXH
EXISTING	EXP
EXHAUST	EXTR
EXPANSION, EXPOSED	FA
EXTERIOR	FOC
FIRE ALARM	FIRE ALARM
FURNISHED BY CONTRACTOR/	FOID
CONTRACTOR/	FD
INSTALLED BY CONTRACTOR/	FDC
FURNISHED BY CONTRACTOR/	FDN
INSTALLED BY OWNER	FE
FLOOR DRAIN	FH
FIRE DEPARTMENT	FHC
CONNECTION	FIG
FOUNDATION	FIN
FIRE EXTINGUISHER	FO
FIRE HYDRANT	FOC
FIRE HOSE CABINET	FOID
FIGURE	FP
FINISH, FINISHED	FR
FACE OF FINISHED	FRT
SUSP	FS
OPENING	FT
FURNISHED BY OWNER/	GA
CONTRACTOR	GALV
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FIREPROOF	GFRG
FRAME, FIRE RATED	GFRP
FIRE RETARDANT	GL
TREATED	GYP
FLOOR SINK	GYP BD
FOOT, FEET	HB
GAUGE	HDW
GALVANIZED	HO
GRAB BAR	HRZ
GENERAL GENERATOR	HR
VERT	HVAC
GLASS-FIBER	AND
REINFORCED	AIR-CONDITIONING
CONCRETE	ID
GLASS-FIBER	INFO
REINFORCED	INSUL
GYPSUM	INT
GLASS-FIBER	IWD
REINFORCED	JT
W	KIT
WEST, WIDE	
WITH	
WITHOUT	
WATER CLOSET,	
WALLCOVERING	
WOOD	
WALL HYDRANT	
WEATHERPROOF,	
WEATHERPROOFING, WORK	
WATERPROOFING, WORK	
POINT	
HORIZONTAL	
HOUR	
HEIGHT	
HEATING, VENTILATING	
AND	
AIR-CONDITIONING	
INSIDE DIAMETER	
INFORMATION	
INSULATE, INSULATION	
INTERIOR	
INDIRECT WASTE DRAIN	
JT	
JOINT	
KIT	
KITCHEN	

RESPONSIBILITY LEGEND	
LANDLORD	
OWNER	
GC	
VENDOR	



SHEET NOTES

1. ACCESSIBLE ROUTE TO PUBLIC RIGHT OF WAY IS EXISTING.
2. ACCESSIBLE ROUTE BEYOND LEASE LINE TO ACCESSIBLE PARKING IS EXISTING.
3. APPROXIMATE DISTANCE TO DUMPSTER: 90'-0"

OWNER
MOD
 2035 158th CT NE
 Suite 200
 Bellevue, WA 98008

ARCHITECT OF RECORD
GRAPHITE
 Graphite Design Group, LLC
 1809 Seventh Ave, #700
 Seattle, WA 98101
 206.224.3335

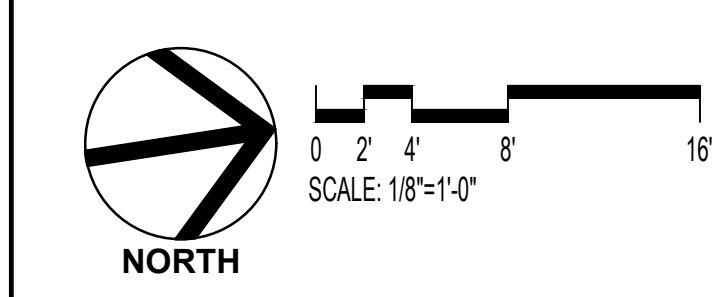
CONSULTANT
 9335 REGISTERED ARCHITECT
 MARTIN LEE HILL
 STATE OF WASHINGTON
 10.15.21

DOWNTOWN KIRKLAND
 230 MAIN STREET
 KIRKLAND, WA 98033

ISSUED / REVISED PERMIT/BID SET DATE 10.15.21

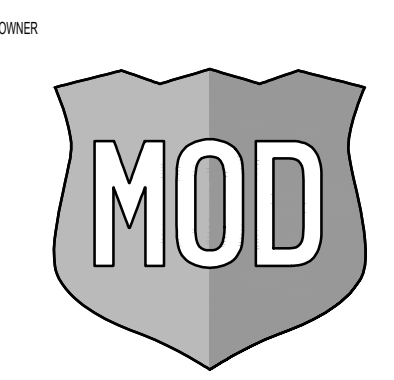
SHEET SYMBOLS

- ACCESSIBLE ROUTE
- ACCESSIBLE ROUTE TO PUBLIC RIGHT OF WAY



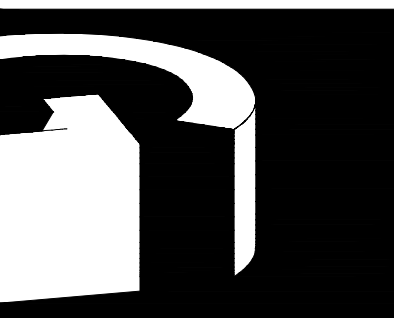
MOD CD TEMPLATE V2.1 PERMIT SET 10.15.21

A-002
 SITE PLAN



2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD



GRAPHITE
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CONSULTANT

SEAL



10.15.21

DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

CALCULATIONS

OCCUPANCY GROUP: ASSEMBLY A-2 (RESTAURANT)

INTERIOR OCCUPANT LOAD: (IBC TABLE 1004.1.2)

AREA	TOTAL SQ FT	LOAD FACTOR	OCCUPANT LOAD
DINING (FLEXIBLE)	1,666	15 / SF	112
QUEUING (STANDING)	106	5 / SF	22
KITCHEN	672	200 / SF	4
ACCESSORY	967	0 / SF	0
TOTAL	3,411	--	138

EXTERIOR OCCUPANT LOAD: (IBC TABLE 1004.1.2)

PATIO (FLEXIBLE)	398	15 / SF	27
TOTAL	3,809	--	165

INTERIOR SEATING: (IBC TABLE 1108.2.2.1)

SEAT TYPE	TOTAL LINEAR FT	SEATS PROVIDED
MOVABLE SEATS	--	52
FIXED SEATS	--	0
BOOTH (1 PER 24")	101'-0"	50
TOTAL	--	102
ACCESSIBLE	REQUIRED	5

EXTERIOR SEATING: (IBC TABLE 1108.2.2.1)

MOVABLE SEATS	--	22
BENCHES (1 PER 18")	--	--
TOTAL	--	22
ACCESSIBLE	REQUIRED	1

EXITS:

ALL EXITS ARE ACCESSIBLE	REQUIRED	PROVIDED
NUMBER OF EXITS (IBC TABLE 1015.1)	2	2
SPRINKLERED EXIT WIDTH (IBC 1005.3.2)	20.7"	106"
EXIT SEPARATION (IBC 1015.2.1)	28'-7"	64'-8"
SPRINKLERED = 1/3 OVERALL DIAGONAL		
MAX TRAVEL DISTANCE (IBC TABLE 1016.2)	250'-0"	100'-0"
MAX COMMON PATH OF TRAVEL (IBC 1014.3)	75'-0"	46'-10"

PLUMBING FIXTURES: (IBC TABLE 2902.1)

INTERIOR OCC + EXTERIOR OCC = TOTAL OCC 138 + 27 = 165

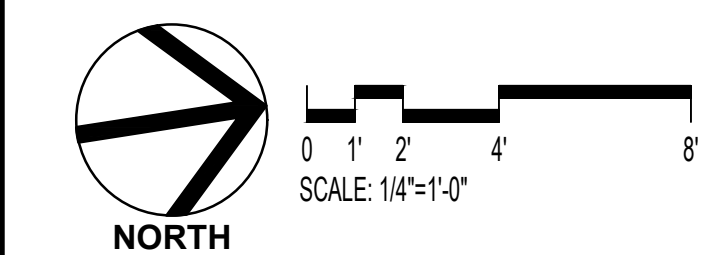
1/2 x TOTAL OCC = OCC PER SEX 1/2 x 165 = 83

PLUMBING FIXTURE	WOMEN'S		MEN'S	
	FIXTURES REQUIRED	FIXTURES PROVIDED	FIXTURES REQUIRED	FIXTURES PROVIDED
WATER CLOSET	2	2	1	1
LAVATORY	1	1	1	1
URINAL	SUBSTITUTION		1	
MOP SINK			1	1
DRINKING FOUNTAIN			EXCEPTION	

IPC 410.3. EXCEPTION:
WHERE RESTAURANTS PROVIDE DRINKING WATER IN A CONTAINER FREE OF CHARGE, DRINKING FOUNTAINS SHALL NOT BE REQUIRED.

SHEET SYMBOLS

- COMMON PATH OF TRAVEL (3FT CLEAR)
- PATH OF TRAVEL (3FT CLEAR)
- WALL MOUNTED FIRE EXTINGUISHER MOUNT WITH VALVE 48" AFF
- TACTILE SIGNAGE - SEE 9/A-601
- EXIT SIGN, REFER TO ELECTRICAL DRAWINGS



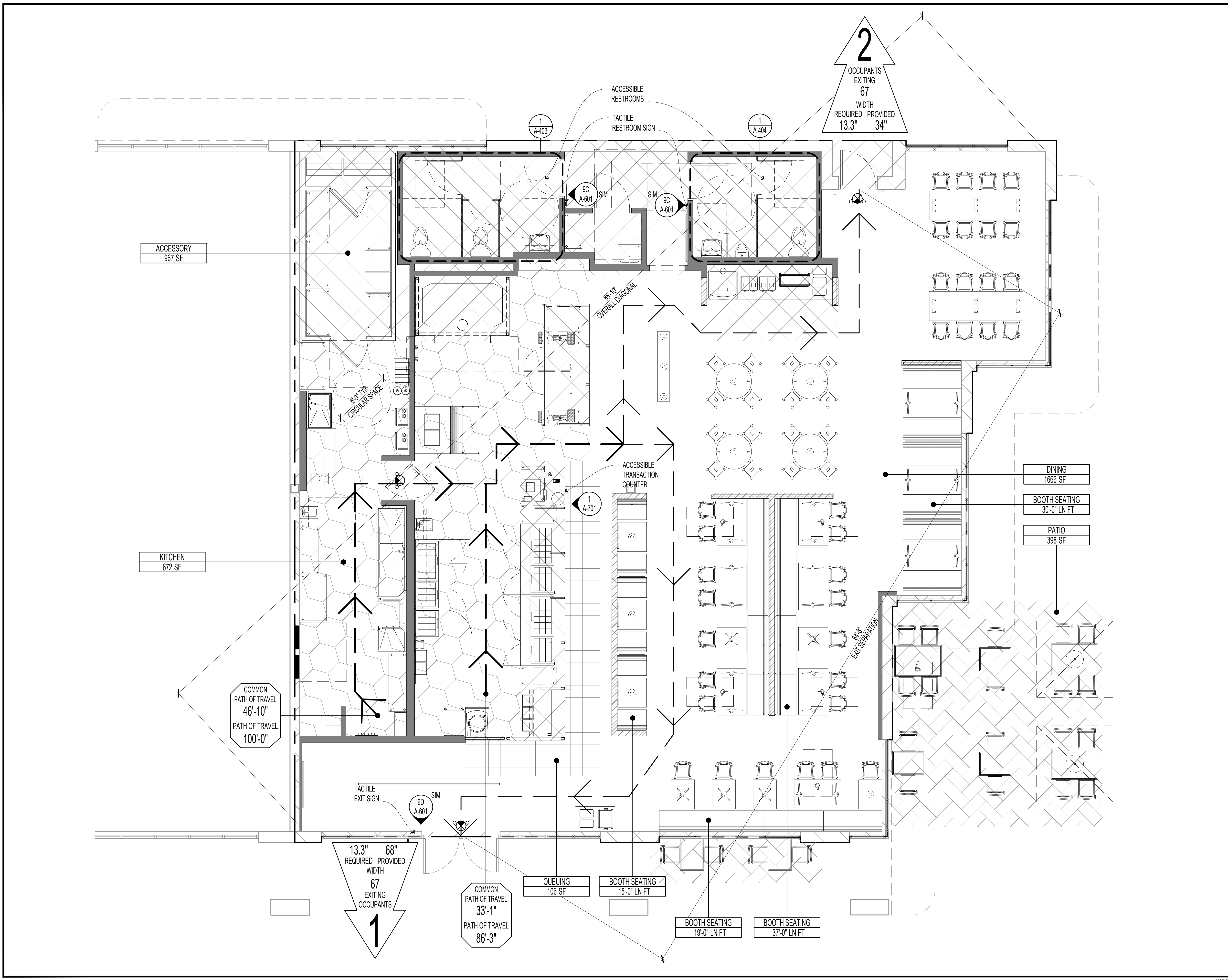
ISSUED / REVISED DATE

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MOD CD TEMPLATE V2.1

PERMIT SET 10.15.21

A-003
EGRESS, OCCUPANCY,
ACCESSIBILITY PLAN



MOD PREPARATION STANDARDS

STANDARD PRODUCE WASHING PROCEDURES:

- CAREFULLY EMPTY THE PRODUCE INTO THE COLANDER.
- IN THE PREP SINK, WHILE RUNNING COLD WATER OVER THE PRODUCE, SHAKE AND STIR WITH GLOVED HAND TO REMOVE DEBRIS.
- SHAKE THE PRODUCT IN THE COLANDER TO HELP DRAIN AS MUCH WATER AS POSSIBLE.
- FOLLOW SPECIFIC DRYING INSTRUCTIONS FOR EACH PREPARED ITEM:
 - TOMATOES, GREEN PEPPERS, ROSEMARY, SERRANO PEPPERS
 - PLACE WASHED PRODUCE ONTO A SHEET TRAY TO AIR DRY ON THE COOLING RACK IN THE WALK-IN UNTIL COMPLETELY DRY.
 - CUT AS NEEDED.
 - PUT INTO A MAKELINE PAN, COVER WITH A LID, LABEL AND DATE.
 - BASIL
 - PICK THE LEAVES FROM THE STEMS AND PLACE THEM ON A CLEAN, UNUSED KITCHEN TOWEL.
 - COVER WITH A CLEAN, UNUSED KITCHEN TOWEL.
 - LIGHTLY PRESS TO PULL WATER OFF OF LEAVES.
 - CUT AS NEEDED.
 - PUT INTO A MAKELINE PAN, COVER WITH A LID, LABEL AND DATE.
 - MUSHROOMS
 - PLACE WASHED MUSHROOMS ONTO THE DRAINING GRATE, WITH A SHEET TRAY UNDERNEATH, TO DRY ON THE COOLING RACK IN THE WALK-IN UNTIL COMPLETELY DRY.
 - PUT INTO A MAKELINE PAN, COVER WITH A LID, LABEL AND DATE.

BASIL:

- FOLLOW THE PRODUCE WASHING PROCEDURE FOR BASIL.
- WHEN BASIL IS DRY, STACK A HANDFUL OF LEAVES FACED IN THE SAME DIRECTION.
- ROLL THE STACK OF BASIL LEAVES HORIZONTALLY.
- CUT LEAVES INTO 1/2 INCH STRIPS.
- PUT BASIL INTO THE MAKELINE PAN.
- PLACE LID ON PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

ROSEMARY:

- FOLLOW THE PRODUCE WASHING PROCEDURE FOR ROSEMARY.
- WHEN ROSEMARY IS DRY PULL LEAVES DOWN AGAINST THE GRAIN OF THE STEM TO REMOVE LEAVES.
- CUT LEAVES INTO 1/2 INCH PIECES.
- PUT ROSEMARY INTO THE SMALL SILVER BOWL.
- ROSEMARY MUST BE DISCARDED AT CLOSING AND THE SMALL SILVER BOWL WASHED.

SALAD GREENS (SPRING MIX, ROMAINE, SPINACH - DO NOT WASH):

- OPEN THE BAG OF GREENS.
- POUR PRODUCT INTO THE MAKELINE PAN WITH THE FALSE BOTTOM.
- PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

GREEN PEPPERS:

- FOLLOW THE PRODUCE WASHING PROCEDURE FOR THE GREEN PEPPERS.
- WHEN THE GREEN PEPPERS ARE DRY, CUT OFF THE TOPS OF THE PEPPERS.
- REMOVE THE SEEDS AND THE WHITE MEMBRANE FROM THE INSIDE OF THE PEPPERS WITH GLOVED HANDS.
- PLACE THE MAKELINE PAN UNDER THE DICER BLADES TO CATCH THE GREEN PEPPERS.
- PUT THE PEPPER INTO THE DICER AND CUT FOLLOWING THE DICING PROCEDURE.
- PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

TOMATOES - SLICED AND DICED:

- FOLLOW THE PRODUCE WASHING PROCEDURE FOR TOMATOES.
- WHEN TOMATOES ARE DRY, USE THE TOMATO CORER TO REMOVE STEMS.
- CORE THE TOMATOES. FOR SLICED TOMATOES USE THE CHEF KNIFE TO CUT OFF BOTH ENDS OF THE TOMATO AND USE FOR DICED TOMATOES.
- FOLLOW THE PROCEDURE FOR EITHER THE SLICER OR DICER.
- PUT OUT TOMATOES INTO THE MAKELINE PAN.
- PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

SERRANO PEPPERS (REGIONAL):

- FOLLOW THE PRODUCE WASHING PROCEDURE FOR SERRANO PEPPERS.
- WHEN SERRANO PEPPERS ARE DRY, CUT OFF TOPS OF PEPPER.
- SLICE SERRANO PEPPERS INTO 1/2 INCH, ROUND SLICES.
- PUT THE PRODUCT INTO A MAKELINE PAN.
- PLACE THE LID N THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

MUSHROOMS:

- FOLLOW THE PRODUCE WASHING PROCEDURE FOR MUSHROOMS.
- WHEN MUSHROOMS ARE DRY, PUT INTO THE MAKELINE PAN.
- PLACE THE LID N THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

RED ONIONS:

- SEPARATE INDIVIDUAL RINGS BY HAND AND DISCARD PIECES THAT ARE TOO SMALL TO FIT AROUND A THUMB.
- PUT ONIONS INTO THE MAKELINE PAN.
- PLACE THE LID N THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

STANDARD ROASTING PROCEDURES:

SLOW ROASTING: USED FOR INGREDIENTS THAT REQUIRE A GENTLE HEAT TO FULLY COOK, MAKING IT SOFT THROUGHOUT WHILE STILL PROVIDING A GOLDEN BROWN COLORATION.

METHOD:

- COOK IN THE COOL PART OF THE OVEN TURNING THE INGREDIENT OVER WITH TONGS EVERY 5 MINUTES UNTIL DONE (NOT MIXING WILL BURN THE PRODUCT).
- ITEM IS FULLY COOKED WHEN SOFT AND GOLDEN BROWN THROUGHOUT.
- IMMEDIATELY TRANSFER TO A SHEET TRAY. FOLLOW THE COOLING PROCESS.

FAST ROASTING: USED FOR INGREDIENTS THAT REQUIRE A QUICK HEAT TO GAIN COLORATION WITHOUT OVERCOOKING THEM, STAYING SLIGHTLY FIRM.

METHOD:

- SPREAD INGREDIENTS IN AN EVEN SINGLE LAYER ACROSS THE PAN.
- COOK IN THE HOTTEST PART OF THE OVEN, ONLY TURNING THE PAN TO GET AN EVEN COLOR ACROSS THE INGREDIENT. DO NOT MIX. MIXING WILL SLOW THE BROWNING PROCESS AND CAUSE AN INGREDIENT TO BE OVERCOOKED AND TOO SOFT IN TEXTURE.
- IT IS FULLY COOKED WHEN EVEN BROWN AND BLACK COLORATION IS ACROSS THE TOP. FOLLOW THE COOLING PROCESS.

COOLING PROCESS:

- IMMEDIATELY PLACE THE SHEET TRAY ON THE COOLING RACK IN THE WALK-IN.
- COOLING CHART MUST BE COMPLETED FULLY AND CHECKED AT REGULAR INTERVALS.
- WHEN PRODUCT REACHES 41 DEGREES FAHRENHEIT OR BELOW, TRANSFER INTO THE APPROPRIATE STORAGE CONTAINER WITH A LID AND COMPLETED DAY DOT.

ROASTED BROCCOLI:

- INSPECT AND DISCARD ANY BROCCOLI FLORETS THAT DO NOT MEET COLOR STANDARDS.
- WITH GLOVED HANDS, BREAK THE FLORETS TO BE SMALLER THAN A PIZZA NUMBER.
- ON A SHEET TRAY WITH GLOVED HANDS MIX THE BROCCOLI, OLIVE OIL, AND SEA SALT UNTIL COMPLETELY COATED.
- OVEN SHOULD BE UP TO TEMPERATURE. COOK IN THE HOT PART OF THE OVEN FOR 7-8 MINUTES ALLOWING FOR COLOR TO FORM.
- COOK UNTIL THEY REACH THE STANDARD COLOR AND TEXTURE: BROWN AND BLACK AND SLIGHT FRAGILITY.
- REMOVE FROM OVEN AND PLACE ONTO THE COOLING RACK IN THE WALK-IN COOLER.
- RECORD THE TEMPERATURE EVERY HOUR ON THE COOLING LOG.
- WHEN THE TEMPERATURE HAS REACHED 41 DEGREES FAHRENHEIT, TRANSFER INTO MAKELINE PAN, COVER AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

ROASTED CORN:

- REMOVE FROZEN CORN FROM PACKAGING AND PLACE ON A SHEET TRAY.
- MIX THE FROZEN CORN, OLIVE OIL, AND SEA SALT UNTIL COMPLETELY COATED.
- IN THE PREP SINK, WHILE RUNNING COLD WATER OVER THE CORN, SHAKE AND STIR WITH GLOVED HANDS ALLOWING FOR COLOR TO FORM.
- TURN PAN AND COOK FOR ANOTHER 6 MINUTES UNTIL IT HAS REACHED THE STANDARD COLORATION.
- REMOVE FROM OVEN AND PLACE ONTO THE COOLING RACK IN THE WALK-IN COOLER.
- RECORD THE TEMPERATURE EVERY HOUR ON THE COOLING LOG.
- WHEN THE TEMPERATURE HAS REACHED 41 DEGREES FAHRENHEIT, TRANSFER INTO MAKELINE PAN, COVER AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

ROASTED GARLIC:

- INSPECT GARLIC FOR ANY PEELS OR BIG ROOT TOPS AND REMOVE.
- IN THE PAN, MIX THE GARLIC, OLIVE OIL, SEA SALT AND BLACK PEPPER UNTIL COMPLETELY COATED.
- COOK IN THE COOL PART OF THE OVEN, MIXING GARLIC WITH TONGS EVERY 5 MINUTES FOR ROUGHLY 30 MINUTES UNTIL IT IS SOFT AND SLIGHTLY BROWNED, NOT BLACK.
- REMOVE FROM THE OVEN.
- TRANSFER TO A SHEET TRAY IN A SINGLE LAYER AND PLACE ONTO THE COOLING RACK IN THE WALK-IN COOLER.
- RECORD THE TEMPERATURE EVERY HOUR ON THE COOLING LOG.
- WHEN THE TEMPERATURE HAS REACHED 41 DEGREES FAHRENHEIT, TRANSFER INTO MAKELINE PAN, COVER AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

STANDARD MEAT & CHEESE PROCEDURES:

MEAT PREP (MILD SAUSAGE, SPICY CHICKEN SAUSAGE, GROUND BEEF, CHICKEN, PEPPERONI, BACON, CANADIAN BACON):

- USING A BAG OPENER, OPEN BAG OF MEAT PRODUCT.
- WITH GLOVED HANDS, PUT PRODUCT INTO THE MAKELINE PAN.
- SEPARATE INDIVIDUAL SLICES AND CLUMPS WITH GLOVED HANDS.
- PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

SALAMI:

- USING A BAG OPENER, OPEN BAG OF SALAMI.
- PLACE 1 INCH STACKS OF SLICED SALAMI ONTO THE CUTTING BOARD.
- USING THE CHEF KNIFE, QUARTER THE SLICES OF SALAMI, CUTTING THE STACK IN HALF, TURNING AND CUTTING IN HALF AGAIN.
- WITH GLOVED HANDS, SEPARATE THE SLICES OF SALAMI AND PUT QUARTERED SALAMI INTO THE MAKELINE PAN.
- PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

ANCHOVIES:

- LEAVING RESIDUAL OIL IN THE TIN, SEPARATE ANCHOVY FILLETS.
- WITH GLOVED HANDS, CAREFULLY PLACE THE ANCHOVY FILLETS INTO THE MAKELINE PAN.
- PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

CHEESE PREP (ASIAGO, PARMESAN, FETA, GORGONZOLA, MOZZARELLA):

- OPEN THE BAG OF CHEESE.
- WITH GLOVED HANDS, POUR THE PRODUCT INTO THE MAKELINE PAN.
- PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

RICOTTA:

- WITH GLOVED HANDS, SCOOP THE RICOTTA INTO THE MAKELINE PAN.
- PLACE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

DAIRY FREE CHEESE:

- USING THE BAG OPENER, OPEN THE BAG OF DAIRY FREE CHEESE.
- WITH GLOVED HANDS, POUR THE PRODUCT INTO THE 4 QT CAMBRO.
- PLACE THE 4 QT CAMBRO ON TUB AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

SALUCE & CONDIMENT PROCEDURES:

FILLING SQUEEZE BOTTLES AND PORTION CUPS (DRESSINGS, EXPO FINISHING SAUCES, MILKSHAKE SYRUPS, PESTO, BARBEQUE SAUCE, WHITE SAUCE, GARLIC BUTTER):

- WITH GLOVED HANDS, FILL THE CLEAN SQUEEZE BOTTLE OR PORTION CUP WITH PRODUCT. PORTION CUPS ARE FILLED TO THE TOP OF THE CUP.
- PLACE THE LID ON THE SQUEEZE BOTTLE. SCREW THE LID ON TIGHTLY. PORTION CUP LIDS ARE SNAPPED ON.
- LABEL THE SQUEEZE BOTTLES WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.
- BATCH LABEL THE PORTION CUPS BY PLACING A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.
- FOLLOW THE SHELF LIFE CHART FOR PRODUCTS IN SQUEEZE BOTTLES AND PORTION CUPS IN THE KITCHEN.

BASE SAUCES (WHITE SAUCE, PESTO, BARBEQUE SAUCE):

- WITH GLOVED HANDS, POUR THE PRODUCT INTO THE SQUEEZE BOTTLE.
- SCREW THE LID ONTO THE SQUEEZE BOTTLE AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

MINCED GARLIC:

- WITH GLOVED HANDS, DRAIN THE EXCESS LIQUID FROM THE GARLIC.
- TRANSFER THE GARLIC INTO THE MAKELINE PAN.
- PLACE THE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

MOD RED SAUCE:

- USING THE BAG OPENER, OPEN 3 POUCHES OF MOD RED SAUCE.
- WITH GLOVED HANDS, DISTRIBUTE EVENLY BETWEEN 2 MAKELINE PANS, APPROXIMATELY 1.5 POUCHES PER PAN.
- USING THE SQUEEZE, SQUEEZE ALL OF THE MOD RED SAUCE OUT OF THE POUCH.
- PLACE THE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

OREGANO BOWL:

- WITH GLOVED HANDS, TRANSFER OREGANO INTO A SMALL SILVER BOWL FOR USE.
- OREGANO MUST BE DISCARDED AT CLOSING AND THE SMALL SILVER BOWL WASHED.

SALT & PEPPER:

- WITH GLOVED HANDS, MEASURE AND ADD THE TABLE SALT TO THE MIXING BOWL.
- MEASURE THE BLACK PEPPER AND ADD TO THE MIXING BOWL WITH THE TABLE SALT.
- USING THE RUBBER SPATULA, MIX THE TABLE SALT AND THE BLACK PEPPER UNTIL THOROUGHLY MIXED.
- TRANSFER TO A SMALL SILVER BOWL FOR USE.
- MIXTURE MUST BE DISCARDED AT CLOSING AND THE SMALL SILVER BOWL WASHED.

SR-RANCH:

- WITH GLOVED HANDS, MEASURE 1 CUP OF THE RANCH DRESSING WITH THE MEASURING CUP AND POUR IN A MIXING BOWL.
- MEASURE 1 CUP OF THE SR-RANCH WITH THE MEASURING CUP AND POUR INTO THE MIXING BOWL WITH THE RANCH DRESSING.
- USING THE RUBBER SPATULA, MIX TO EVENLY INCORPORATE THE RANCH DRESSING AND SR-RANCH TOGETHER.
- TRANSFER INTO A SQUEEZE BOTTLE.
- SCREW THE LID ON THE SQUEEZE BOTTLE AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

GARLIC BUTTER:

- WITH GLOVED HANDS, MEASURE 1/2 CUP OF GRANULATED GARLIC WITH THE MEASURING CUP AND POUR INTO THE BUTTER SUBSTITUTE CONTAINER.
- SHAKE THE CONTAINER VIGOROUSLY TO EVENLY INCORPORATE THE GRANULATED GARLIC AND BUTTER

SUBSTITUTE TOGETHER.

- LABEL THE CONTAINER "GARLIC BUTTER" AND APPLY A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.
- TRANSFER INTO A SQUEEZE BOTTLE AS NEEDED.
- TURN PAN AND COOK FOR ANOTHER 6 MINUTES UNTIL IT HAS REACHED THE STANDARD COLORATION.
- RECORD THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

SPICY RED SAUCE:

- FILL THE 1/2 PAN WITH MOD RED SAUCE.
- USING THE RUBBER SPATULA, MIX THE CRUSHED CALABRIAN PEPPERS AS OIL SEPARATION CAN OCCUR.
- ADD THE CRUSHED CALABRIAN PEPPERS TO THE MOD RED SAUCE.
- USING THE RUBBER SPATULA, STIR TO INCORPORATE THE CRUSHED CALABRIAN PEPPERS INTO THE RED SAUCE. UNTIL IT IS A UNIFORM COLOR.
- POUR THE FINISHED SPICY RED SAUCE INTO THREE 1/2 MAKELINE PANS.
- LABEL AND DATE WITH THE SHELF LIFE OF 3 DAYS (PREPPT) AND COVER.

CANNED & POUGHED PRODUCT PROCEDURES:

CANNED PRODUCTS TO DRAIN (BLACK OLIVES, PINEAPPLE, JALAPENOS):

- OPEN THE CANS USING THE CAN OPENER.
- WITH GLOVED HANDS, POUR THE PRODUCT INTO THE COLANDER TO DRAIN COMPLETELY.
- PLACE THE PRODUCT INTO THE MAKELINE PAN.
- PLACE THE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

JUGGED PRODUCTS TO DRAIN (MAMA LIL'S SWEET HOT PEPPERS, BANANA PEPPERS (REGIONAL)):

- OPEN THE JUG.
- WITH GLOVED HANDS, POUR THE CONTENTS OF THE JUG INTO THE COLANDER TO DRAIN COMPLETELY.
- PLACE THE PRODUCT INTO THE MAKELINE PAN.
- PLACE THE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

ROASTED RED PEPPERS:

- OPEN THE CANS USING THE CAN OPENER.
- USING GLOVED HANDS, POUR 2 CANS OF ROASTED RED PEPPERS INTO THE COLANDER TO DRAIN COMPLETELY.
- PLACE THE ROASTED RED PEPPERS INTO A MIXING BOWL.
- MEASURE AND ADD THE MINCED GARLIC TO THE MIXING BOWL.
- MEASURE AND ADD THE CHOPPED BASIL TO THE MIXING BOWL.
- USING A RUBBER SPATULA, MIX TO INCORPORATE THE BASIL AND GARLIC INTO THE ROASTED RED PEPPERS.
- TRANSFER INTO THE MAKELINE PAN.
- PLACE THE LID ON THE PAN AND LABEL WITH A COMPLETED DAY DOT USING THE EXPIRATION DATE FROM THE SHELF LIFE CHART.

NO NAME CAKES:

- WITH GLOVED HANDS, PLACE THE NO NAME CAKE TOP SIDE UP ON A PIZZA LINER.
- PLACE THE FOIL OVER THE TOP OF THE NO NAME CAKE WITH THE PRINTED FOIL CENTERED ON THE NO NAME CAKE.
- GENTLY PUSH DOWN THE SIDES OF THE FOIL TO CREATE A SMOOTH TOP AND EVEN SIDES AROUND THE NO NAME CAKE.
- FLIP THE NO NAME CAKE OVER AND GENTLY FOLD THE EDGES OF THE FOIL TO THE CENTER TO COVER THE ENTIRE BOTTOM.
- FLIP THE NO NAME CAKE OVER AND GENTLY FLATTEN THE BOTTOM OF THE FOIL.

MOD HACCP

TYPE OF SERVICE: HEAT AND SERVE

DAYS AND HOURS OF OPERATION: SUN-THUR 10:30AM-10:00PM FRI-SAT 10:30AM-11:00PM

NUMBER OF STAFF: 30

MAXIMUM PER SHIFT: 15

DISTRIBUTION:

ALL PRODUCE IS SOURCED THROUGH PRO*ACT. ALL BROADLINE DISTRIBUTION IS THROUGH PERFORMANCE FOOD GROUP (PFG).

EMPLOYEE HEALTH:

ALL MOD SQUAD MEMBERS WORKING IN A STORE LOCATION OR WITH MOD FOOD OR BEVERAGE AGREE TO REPORT TO THE MANAGER WHEN EXPERIENCING ANY OF THE FOLLOWING SYMPTOMS:

- VOMITING
- DIARRHEA/STOMACH CRAMPS
- SORE THROAT WITH FEVER
- JAUNDICE (YELLOWING OF EYES OR SKIN)
- INFECTED CUTS, WOUNDS OR BOLS WITH PUS ON THE HANDS OR WRISTS.

IF THE WOUND CANNOT BE COVERED TO PREVENT POTENTIAL DISEASE TRANSMISSION, THE MOD SQUAD MEMBER CANNOT WORK IN STORES.

HANDWASHING:

- ALL HANDS MUST BE WASHED ONLY AT A HAND WASH SINK.
- HAND WASH SINKS MUST HAVE SINGLE USE PAPER TOWELS, WATER MUST BE >100°F (OR AS REQUIRED BY JURISDICTION), AND SOAP.
- HANDS MUST BE WASHED FOR AT LEAST 20 SECONDS (OR AS REQUIRED BY JURISDICTION).
- FAUCETS MUST BE TURNED OFF BY USING A SINGLE USE PAPER TOWEL AS A BARRIER.
- HANDS MUST BE WASHED DURING THE FOLLOWING CIRCUMSTANCES (AT MINIMUM):

- BEFORE STARTING WORK
- BEFORE PUTTING ON GLOVES
- BETWEEN GLOVE CHANGES
- AFTER ALL MONEY HANDLING
- BEFORE AND DURING FOOD PREPARATION
- BEFORE HANDLING KITCHEN TOOLS OR PREP EQUIPMENT
- WHEN CHANGING FROM ONE TASK TO ANOTHER
- AFTER COUGHING, SNEEZING, OR USING A TISSUE
- AFTER TOUCHING FACE, HAIR, CLOTHING
- AFTER EATING, DRINKING, CHEWING GUM, SMOKING
- AFTER CLEANING
- AFTER HANDLING GARBAGE
- AFTER VISITING THE RESTROOM
- IN THE RESTROOM
- ONCE YOU RETURN TO THE KITCHEN
- AFTER GOING OUTSIDE FOR ANY REASON
- BETWEEN DOUGH PRESS AND MAKELINE, EXPO, OR OVEN
- BETWEEN REGISTER AND EXPO, MAKELINE, OR OVEN
- BETWEEN OVEN AND MAKELINE
- BETWEEN EXPO AND MAKELINE

PERSON IN CHARGE:

- EVERY SHIFT WILL HAVE A GENERAL MANAGER/ASSISTANT MANAGER/SHIFT LEAD WHO WILL BE DESIGNATED AND PERMIT HOLDING (WHEN REQUIRED BY JURISDICTION) PERSON IN CHARGE.
- ALL MANAGERS, SHIFT LEADS, AND TRAINING MANAGER WILL BE CERTIFIED (WHEN REQUIRED BY JURISDICTION).
- THERE IS ALWAYS A KNOWLEDGEABLE PERSON PRESENT AT ALL TIMES OF OPERATION.

THERMOMETERS:

- EACH STORE HAS A MINIMUM OF FOUR (4) WORKING NSF APPROVED THERMOMETERS WITH APPROPRIATE TEMPERATURE RANGE TO CHECK PRODUCT TEMPERATURES, WATER TEMPERATURE, AND DSH MACHINE TEMPERATURES.
- EACH REFRIGERATION UNIT HAS AT LEAST ONE INTERNAL THERMOMETER. LINE TEMPERATURE CHECKS ARE COMPLETED FREQUENTLY TO VERIFY INTERNAL PRODUCT AND EQUIPMENT TEMPERATURES.
- THE AMOUNT OF COLD STORAGE/HOLDING NEEDED FOR OPERATION WAS DETERMINED BY THE PAR LEVELS OF PRODUCTS IN CURRENTLY OPERATING LOCATIONS, BASED ON SIMILAR PROJECTED SALES VOLUMES. MOD HAS BEEN OPERATING SINCE 2008.

CALIBRATION:

ALL AFL DIGITAL THERMOMETERS HAVE CALIBRATION SETTINGS STORE IN A NON-VOLITILE MEMORY CHIP.

SANITIZER:

- ALL STORES USE QUATERNARY AMMONIUM IN A CONCENTRATION OF 150-400PPM.
- TEST STROPS ARE USED ON THE SANITIZER EACH TIME SANITIZER BUCKETS ARE FILLED. SANITIZER IS ROUTINELY CHECKED TO ENSURE PROPER CONCENTRATION AT ALL TIMES.

CLEANING:

- ANY PIECE OF EQUIPMENT THAT IS UNABLE TO BE WASHED IN THE 3 COMPARTMENT SINK OR IN THE DISHWASHER IS CLEANED IN PLACE THROUGH A FULL WASH, RINSE, SANITIZE, AND AIR DRY.
- ALL EQUIPMENT MUST BE SANITIZED AFTER CLEANING.
- ALL CONTAINERS OF TOXICS ARE PROPERLY STORED AND LABELED. SDS SHEETS AVAILABLE ON SITE. CHEMICAL DISPENSERS ARE PROFESSIONALLY SERVICED EVERY MONTH.
- TOWELS AND FLOOR MATS ARE LAUNDERED WEEKLY BY AN OFF-SITE PROFESSIONAL LAUNDRY SERVICE.

DISHWASHING:

- ALL DISH MACHINES HAVE THE REQUIRED TEMPERATURE AND PRESSURE GAUGES.
- ALL DISH MACHINES ARE HIGH HEAT, REACHING 180 DEGREES, OR LOW HEAT WITH CHLORINE-BASED CLEANER AT APPROPRIATE PPM FOR MACHINE/CHEMICAL.
- THE THREE COMPARTMENT SINK HAS A DRAIN BOARD ON EITHER SIDE.
- ALL STORES HAVE A GREASE INTERCEPTOR. ALL GREASE INTERCEPTORS ARE CLEANED ON A QUARTERLY BASIS.

PEST CONTROL:

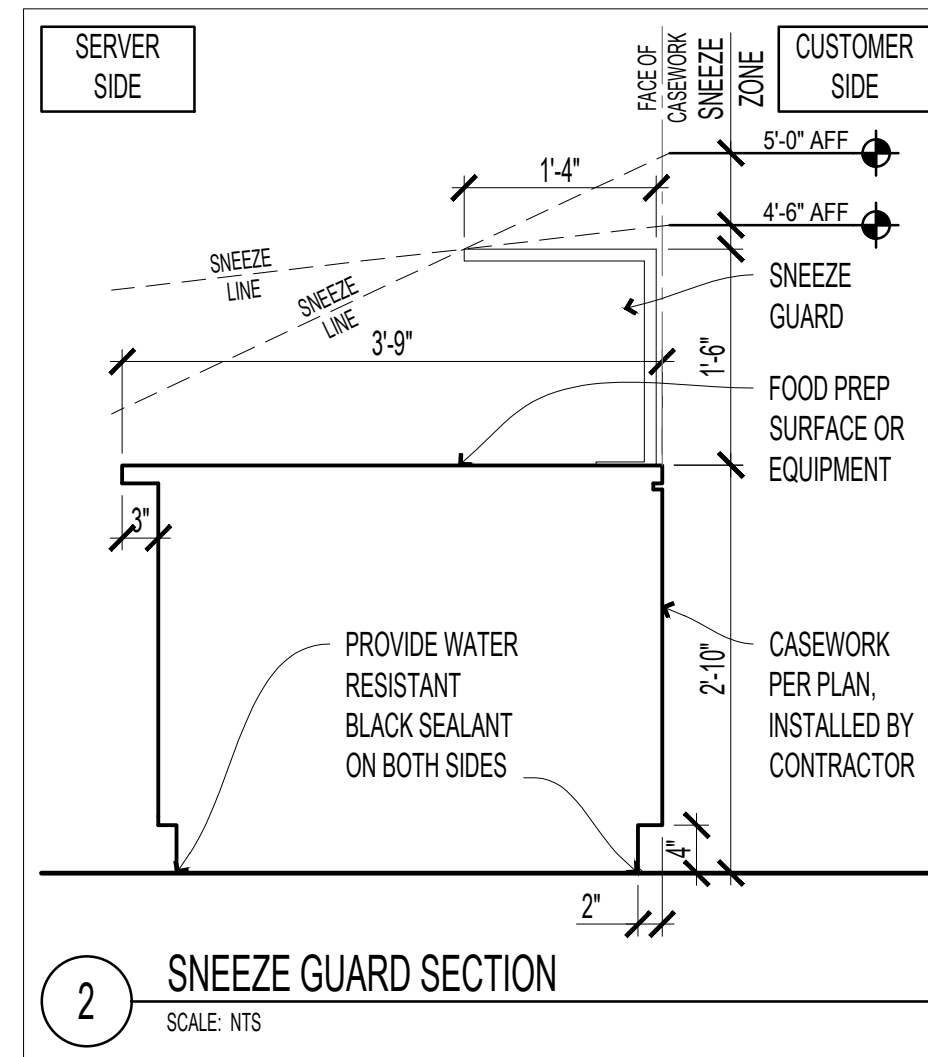
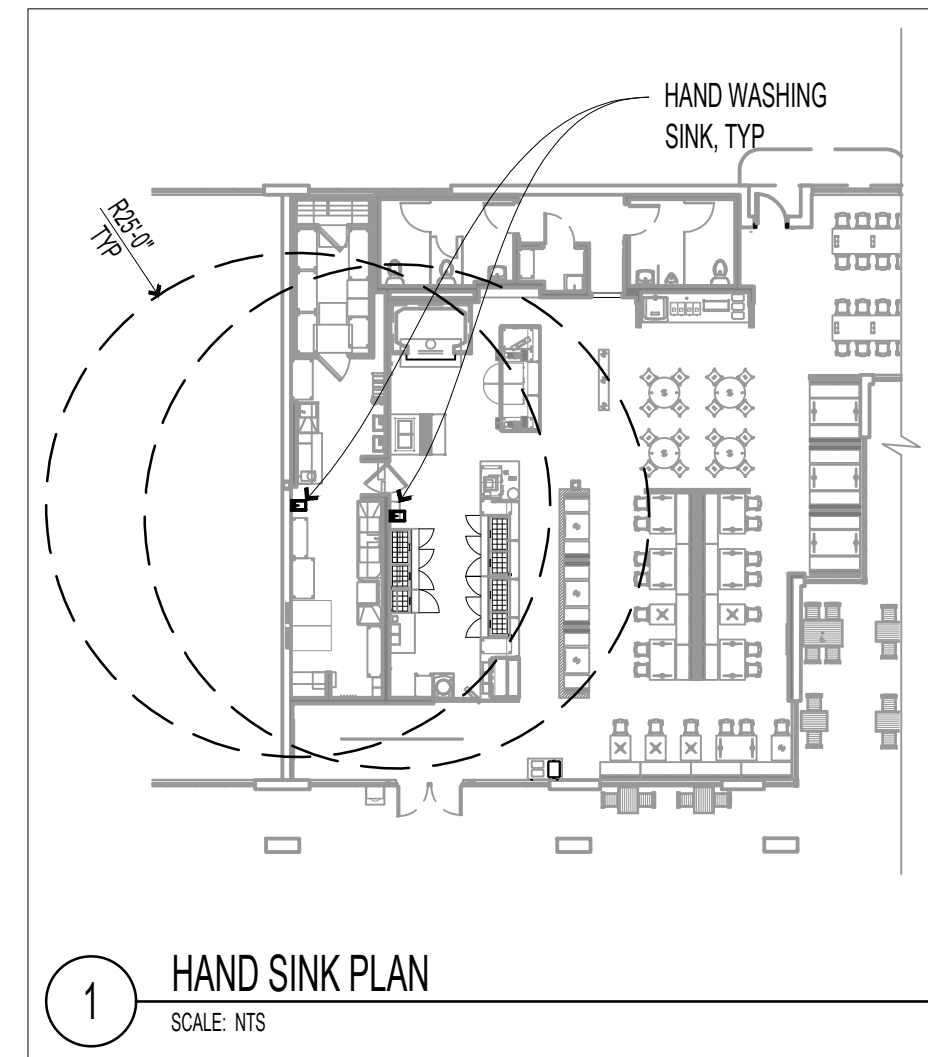
- ALL EXTERIOR DOORS ARE SELF-CLOSING. EXTERIOR OF BUILDINGS ARE REQUIRED TO BE KEPT CLEAN OF LITTER.
- ALL PIPES AND ELECTRICAL CONDUIT CHASES, VENTILATION SYSTEMS, ETC. ARE SEALED/PROTECTED.
- ALL STORES RECEIVE A MONTHLY PEST CONTROL SERVICE.

COOKING:

- MOD MAKES EACH PIZZA AND SIDE ITEM TO ORDER FOR EACH CUSTOMER. THERE IS NO HOT HOLDING OF ANY FOOD IN THE RESTAURANT. COLD HOLDING PRIMARILY OCCURS IN THE REFRIGERATED MAKELINES WHERE PIZZAS AND SALADS ARE MADE. THERE ARE A FEW SAUCES AT THE EXPO STATION THAT ARE KEPT ON ICE. MOD RED SAUCE DOES NOT REQUIRE REFRIGERATION FOR FOOD SAFETY PER FDA'S PHWATER ACTIVITY MODEL, BUT IS HELD COLD FOR PREFERENCE AND CONSISTENCY.
- VEGETABLES ARE ROASTED IN HOUSE.
- THE VEGETABLES ARE ROASTED IN A SINGLE LAYER. THE PAN IS PLACED IN THE 800°F OVEN. VEGETABLES ARE ROASTED UNTIL GOLDEN BROWN AND SOFT AND TO A TEMPERATURE >135°F.

COOLING:

- ROASTED VEGETABLES MAY BE PREPARED AND COOLED 12 HOURS IN ADVANCE OF SERVICE.



MOD MENU

WELCOME TO MOD
ANY TOPPING. ONE PRICE.

PIZZA		SALAD	
MEGA 12\"/>			

CREATE YOUR OWN FROM 30+ TOPPINGS
OR
CHOOSE A MOD CLASSIC

MEGA 12\"/>			
MEGA 12\"/>	MEGA 12\"/>	MEGA 12\"/>	MEGA 12\"/>

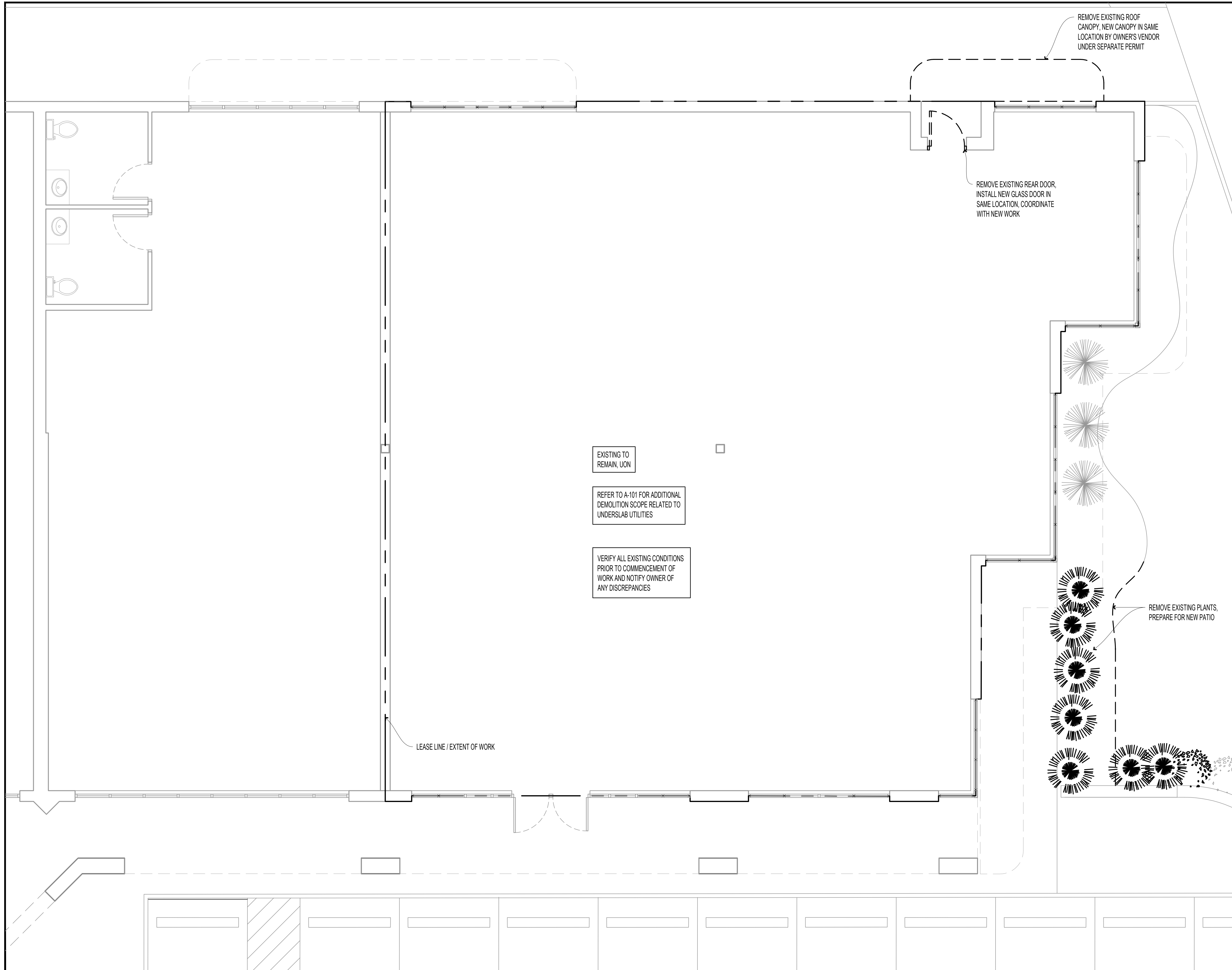
2,000 calories a day is used for general nutrition advice, but calorie needs vary. Additional nutrition information available upon request. Calorie information in the classic pizzas and salads. Daily-friendly crust adds 230 calories and cauliflower crust adds 180 calories to a MOD-Sized pizza. *Per 1/2 cup crust adds 150 calories to a MOD-Sized salad. Calorie information for toppings and dressings available upon ordering.

DRINKS & STUFF

SIDES	
CRISPY GARLIC BREAD	\$5.97 1530 cal
dipping sauces (3 bags)	
1/2 dozen garlic	20 cal
1/2 dozen garlic	100 cal
1/2 dozen garlic	100 cal

DESSERT	
NO NAME CAKE	\$2.97 200 cal
FOUNTAIN	\$2.17 16 oz
SOFTS (16oz) (95¢)	\$2.97 24 oz
LEMONADE	\$2.97 24 oz
HOUSE BREWED TEAS	\$-8.00
DRAFT BEER	\$4.97 16 oz
PNB 16 oz	\$4.97 16 oz
PNB 16 oz	\$4.97 16 oz

TAKE-

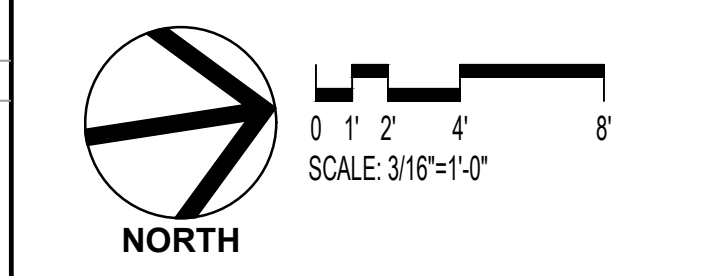


SHEET NOTES

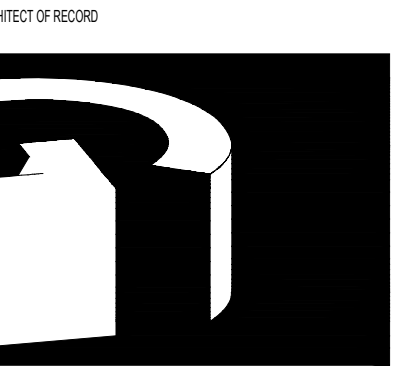
1. DO NOT DEMOLISH ANY LOAD BEARING WALLS OR CONSTRUCTION THAT WILL COMPROMISE THE STRUCTURAL INTEGRITY OF THE STRUCTURE. NOTIFY OWNER OF ANY STRUCTURAL ISSUES ARISING FROM DEMOLITION.
2. PROTECT EXISTING MATERIALS, FINISHES AND DEVICES TO REMAIN DURING DEMOLITION.
3. WHERE DEMOLITION OCCURS, PATCH AND REPAIR EXISTING MATERIALS AND FINISHES THAT ARE TO REMAIN OR WHERE DAMAGED DURING DEMOLITION TO MATCH EXISTING ADJACENT MATERIALS. ENSURE ALL PATCHES AT NEW AND EXISTING MATERIALS ARE INDISTINGUISHABLE AND READY FOR NEW FINISHES.
4. REMOVE GLUE AND/OR SETTING MATERIALS FROM EXISTING FLOOR SURFACE TO ALIGN WITH EXISTING ADJACENT FLOOR
5. MAINTAIN CLEANLINESS OF COMMON SPACES DURING AND FOLLOWING DEMOLITION.
6. PROTECT SIDEWALKS AND OTHER ACCESSIBLE PATHS OF TRAVEL DURING CONSTRUCTION. NOTIFY OWNER OF ANY DAMAGE THAT OCCURS.
7. REPAIR AND CLEAN EXISTING DEVICES TO REMAIN TO LIKE NEW CONDITION.
8. MAINTAIN SYSTEM COMPATIBILITY WHERE EQUIPMENT DEVICES AND SURFACE MOUNTED ITEMS ARE REMOVED OR REPLACED.
9. REMOVE ABANDONED AND UNUSED OVERHEAD DUCTS, CONDUITS, AND PIPING TO SOURCE OR TO LEASE LINE AND CAP.
10. REMOVE ABANDONED AND UNUSED PLUMBING LINES, DRAINS, ELECTRICAL CHASES, AND FLOOR PENETRATIONS. STRUCTURALLY FILL VOIDS AND CAP BELOW FINISH FLOOR.

SHEET SYMBOLS

- EXISTING TO BE DEMOLISHED
- EXISTING TO REMAIN



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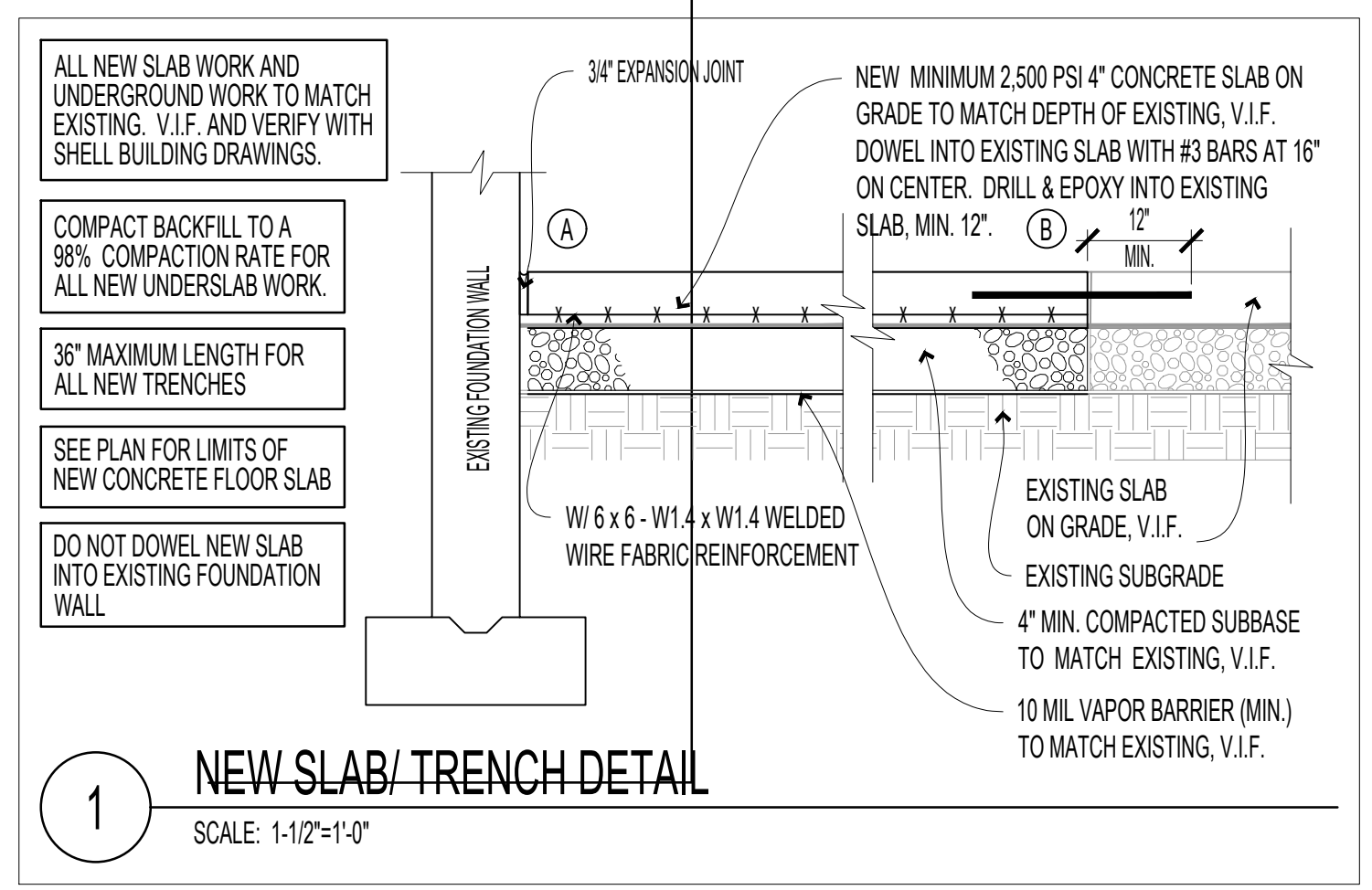
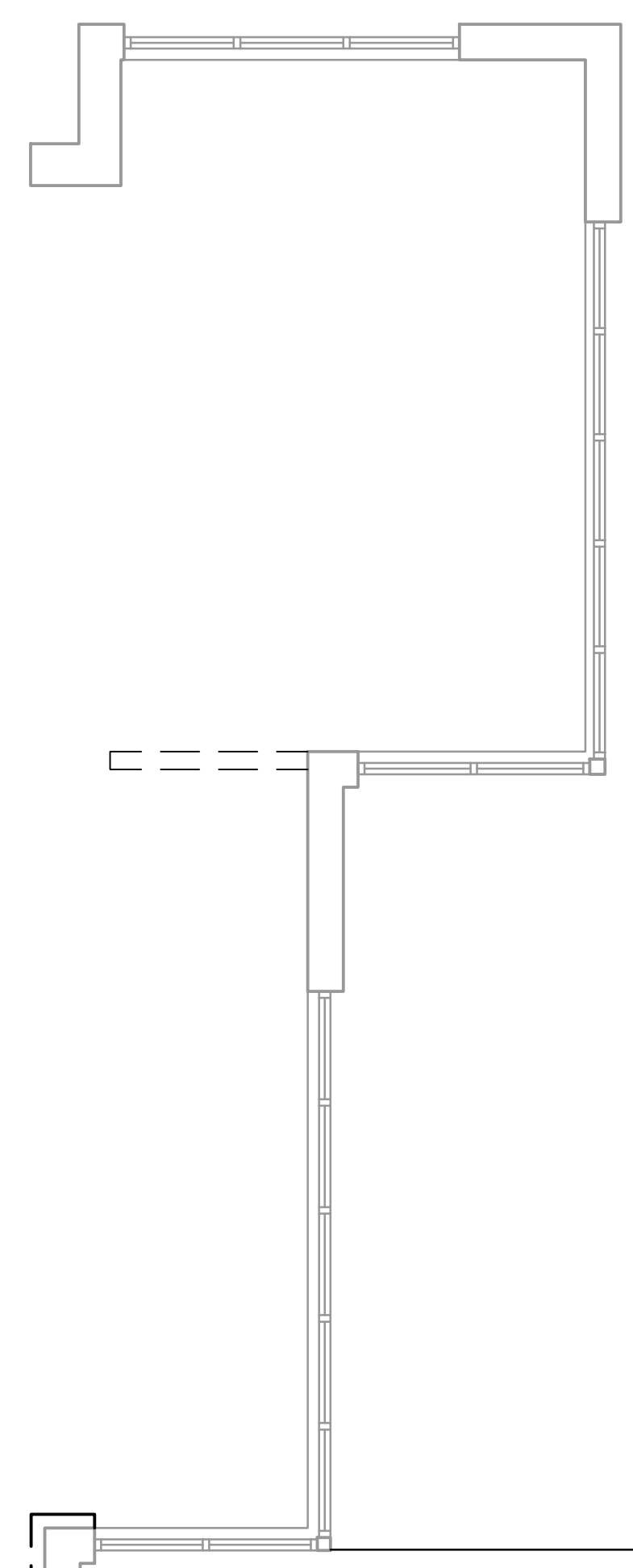
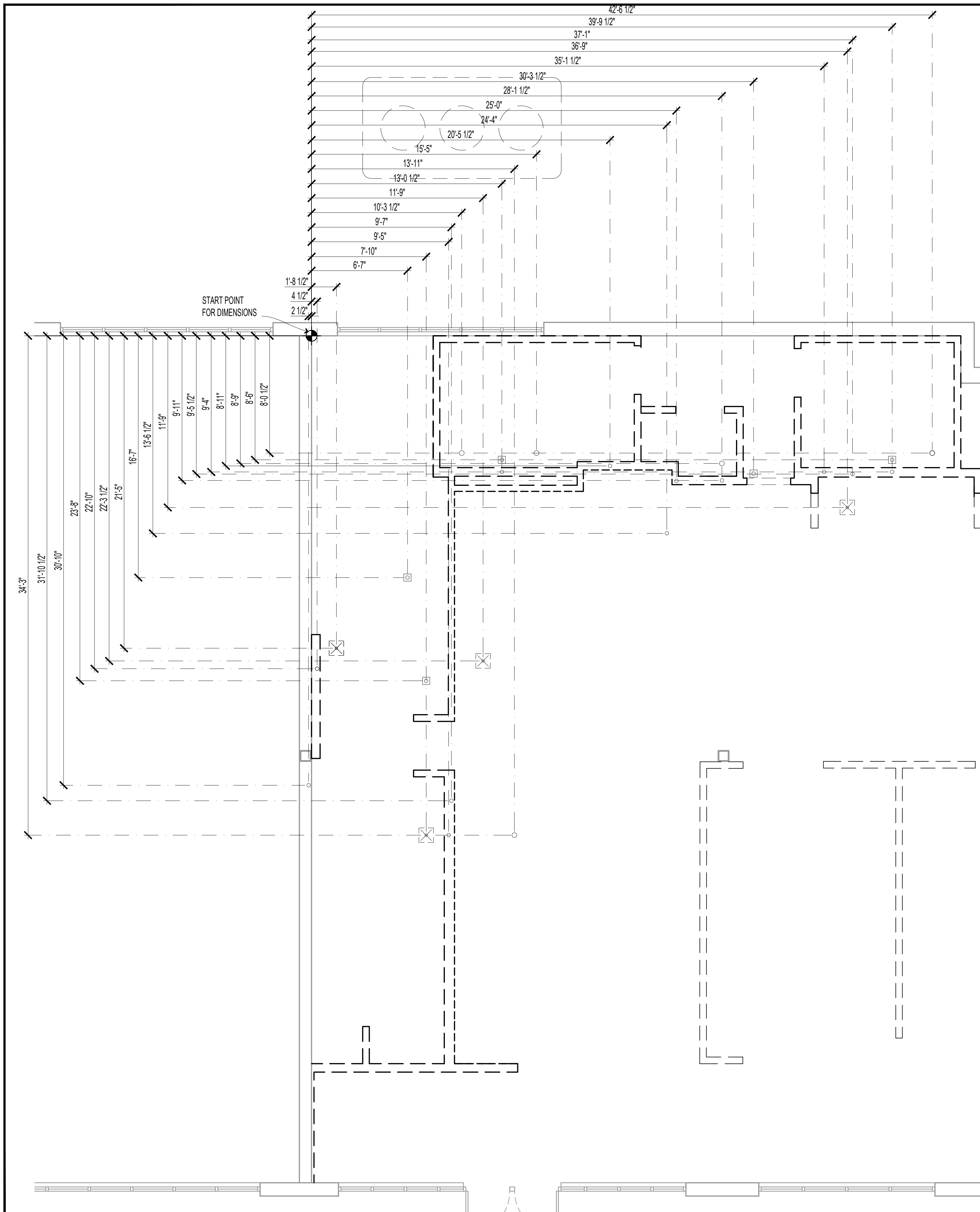
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AD-111
 DEMOLITION FLOOR PLAN

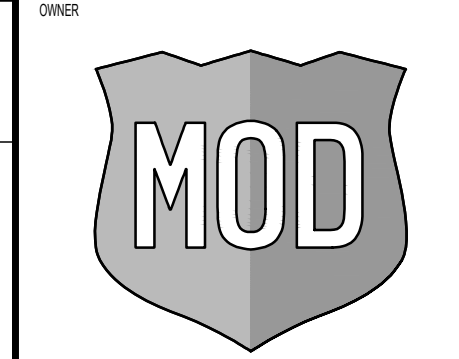
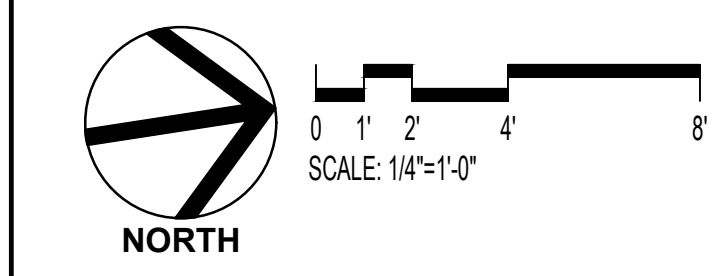


SHEET NOTES

1. PROTECT EXISTING MATERIALS, FINISHES AND DEVICES TO REMAIN DURING CONSTRUCTION.
2. SAWCUT EXISTING CONCRETE SLAB & TRENCH TO INSTALL UNDERSLAB CONDUIT & PIPING. PROVIDE NEW CONCRETE SLAB PER DETAIL, 1/A-101. AT TRENCH AREAS IN RESTROOMS AND KITCHEN, POUR BACK CONCRETE FLOOR TO SLOPE TOWARDS FLOOR DRAINS AND FLOOR SINKS WITH 1/4\"/>
- 3. WHEN NEW SLAB REQUIRED INDICATE AND DIMENSION SLAB CONTROL JOINTS (20\"/>
- 4. REFER TO PLUMBING PLAN FOR PENETRATION SIZES AND TYPES.
- 5. VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK AND NOTIFY OWNER OF ANY DISCREPANCIES.
- 6. DASHED LINES REPRESENT NEW PARTITIONS TO BE CONSTRUCTED AND ARE SHOWN FOR CLARITY IN LOCATING THE SLAB PENETRATIONS.
- 7. COORDINATE PLUMBING, ELECTRICAL, AND DATA PENETRATIONS WITH FRAMING PLAN. SEE MEP SHEETS.
- 8. EXTENT OF TRENCHING FOR UNDERGROUND UTILITIES IS NOT INDICATED AND IS CONTRACTOR'S OPTION, MINIMIZE AREA OF TRENCHING REQUIRED, MINIMIZE TRENCHING IN PUBLIC AREAS WHERE POSSIBLE.
- 9. NOT USED.

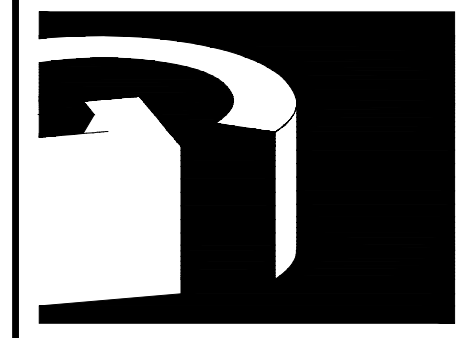
SHEET SYMBOLS

- NEW PARTITIONS, SEE A-111
- SLAB PENETRATION, SEE PLUMBING DRAWINGS
- FLOOR DRAIN, SEE PLUMBING DRAWINGS
- FLOOR SINK, SEE PLUMBING DRAWINGS
- GREASE INTERCEPTOR, SEE PLUMBING DRAWINGS



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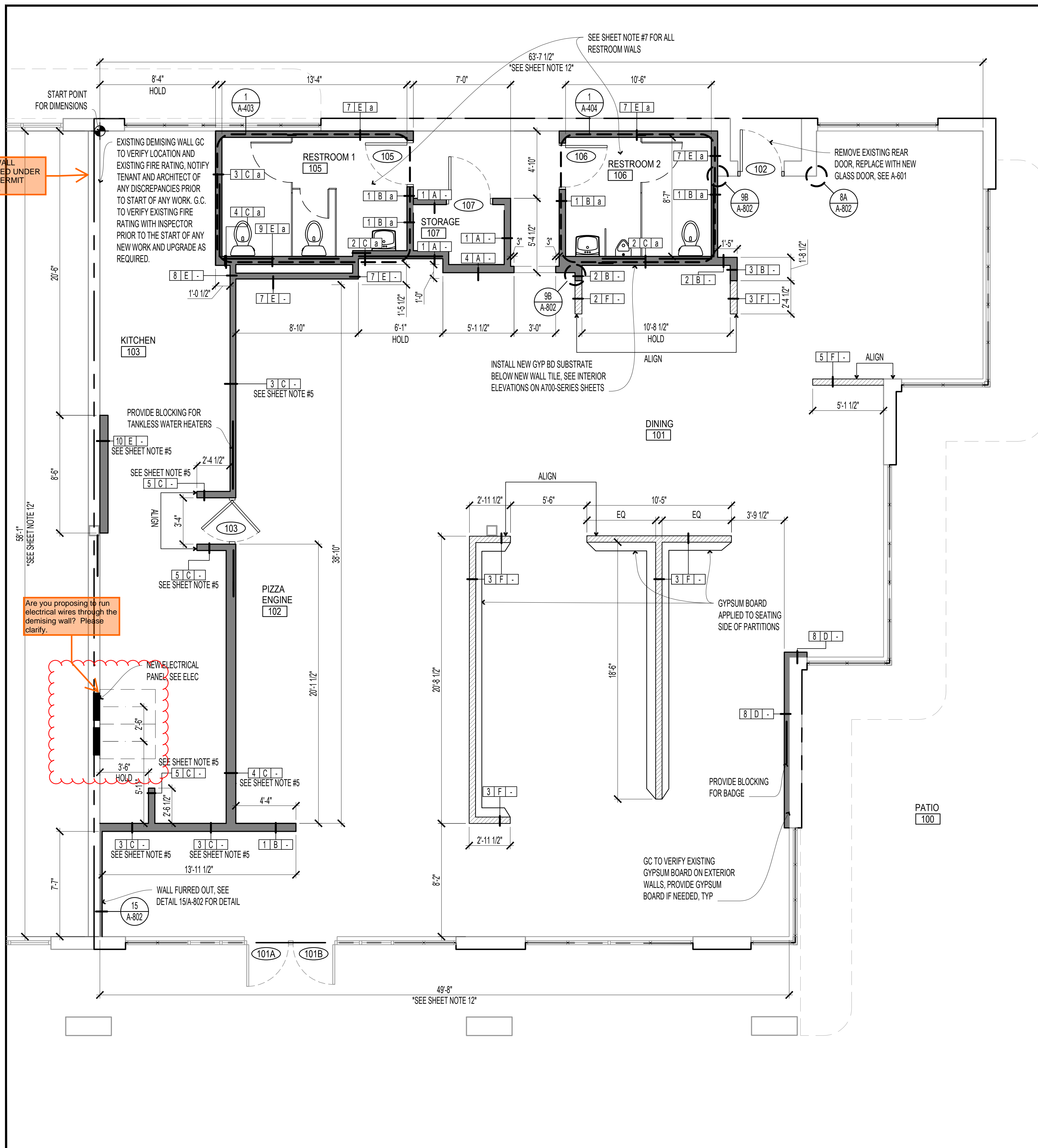
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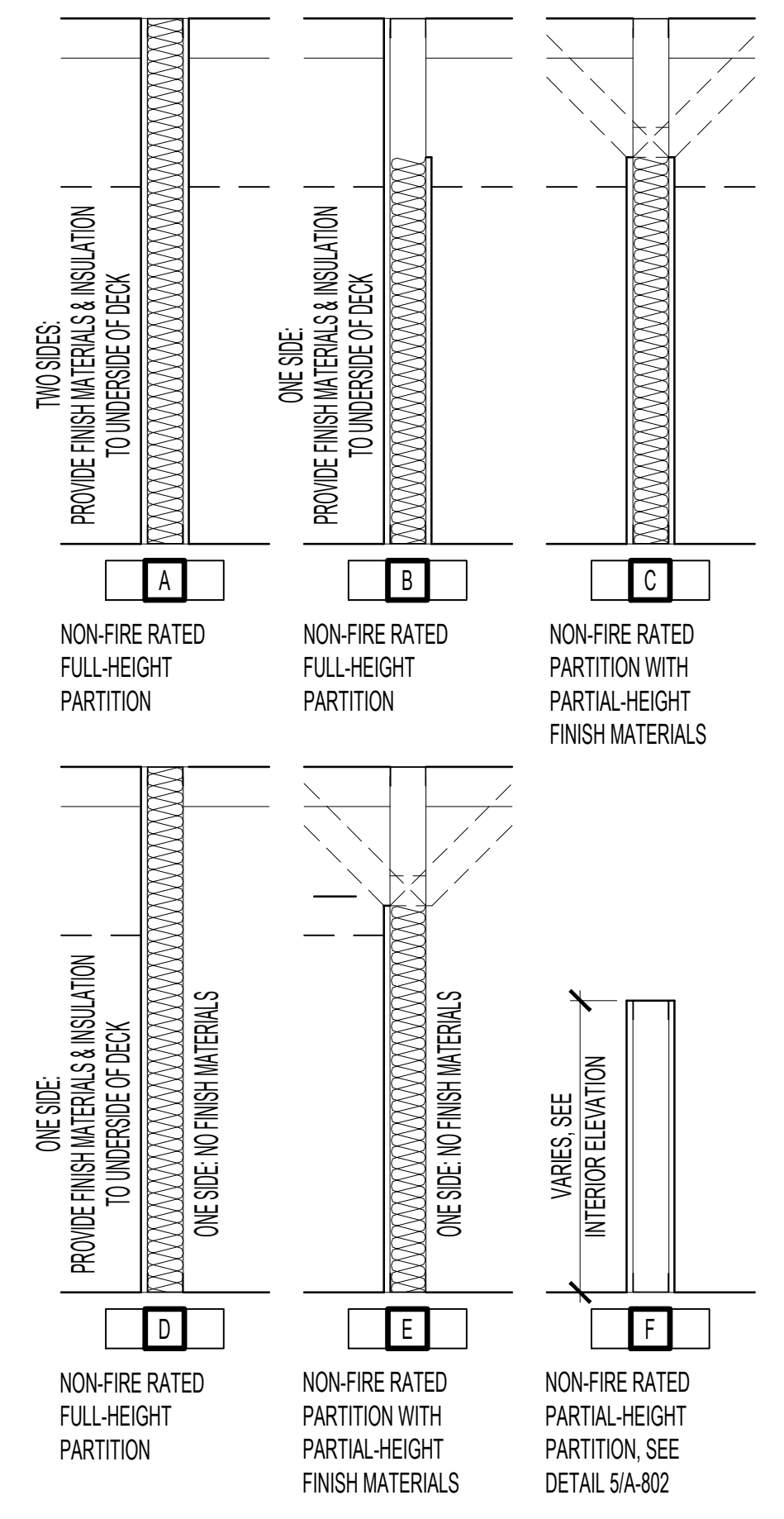
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A-101
SLAB PLAN



THE PARTITION-TYPE DESIGNATION OR WALL-TYPE DESIGNATION IS A THREE-UNIT CODE THAT INDICATES THE CONFIGURATION, MATERIAL SIZES AND INSULATION OF THE PARTITION AS FOLLOWS:

- MATERIAL SIZE
INSULATION TYPE
VERTICAL CONFIGURATION
- NO INSULATION
BATT ACOUSTICAL INSULATION
BATT THERMAL INSULATION
- STUD SIZE: 3 5/8", GYP BD ON BOTH SIDES
STUD SIZE: 6", GYP BD ON BOTH SIDES
STUD SIZE: 3 5/8", PLYWD ON ONE SIDE, GYP BD ON OTHER SIDE
STUD SIZE: 6", PLYWD ON ONE SIDE, GYP BD ON OTHER SIDE
STUD SIZE: 3 5/8", PLYWD ON BOTH SIDES
STUD SIZE: 6", PLYWD ON BOTH SIDES
- STUD SIZE: 3 5/8", GYP BD
STUD SIZE: 3 5/8", PLYWD
STUD SIZE: 6", GYP BD
STUD SIZE: 6", PLYWD
- 5/8" GYPSUM BOARD OR 5/8" PLYWOOD, SEE TAGS BELOW
METAL STUD
BASE PER SCHEDULE
- (2) 1/2" TYPE X GYPSUM BOARD, SEE TAGS BELOW
INSULATION IF NOTED
METAL STUD
BASE PER SCHEDULE
- STUD SIZE: 3 5/8", (2) 5/8" TYPE X GYP BD ON BOTH SIDES**
STUD SIZE: 6", (2) 5/8" TYPE X GYP BD ON BOTH SIDES**
**2HR RATED WALL, G.C. TO BUILD PER DESIGN NO. U419

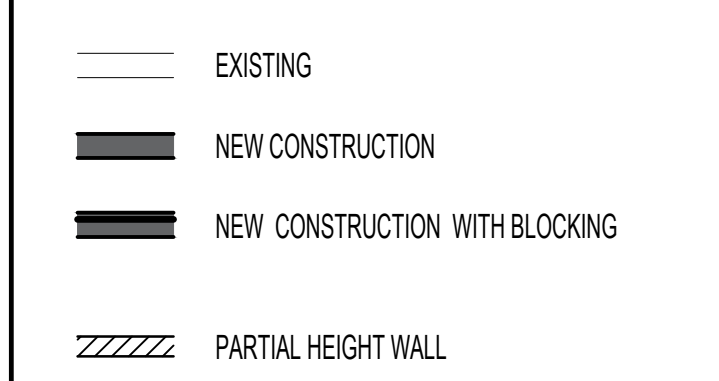


1 WALL TYPES
SCALE: NTS

SHEET NOTES

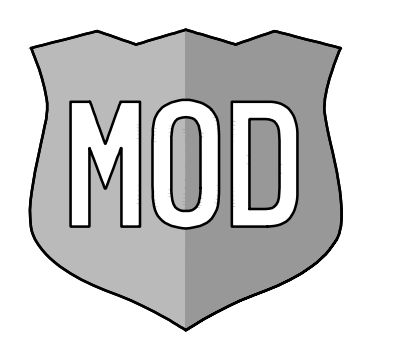
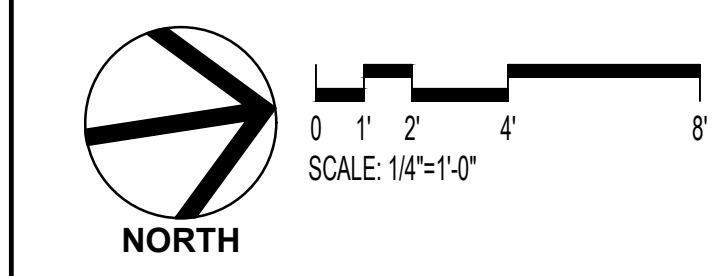
- PROTECT EXISTING MATERIALS, FINISHES AND DEVICES TO REMAIN DURING CONSTRUCTION.
- REFER TO SLAB PLAN AND PLUMBING PLANS FOR UNDERSLAB PLUMBING REQUIREMENTS.
- PROVIDE BLOCKING AND BACKING AS DEFINED IN SPECIFICATION SECTION 092200 IN EXISTING PARTITIONS AND NEW PARTITIONS.
- ALL ANGLED WALLS ARE AT 45°, 90° OR 135° UON.
- PROVIDE CEMENT BOARD UP TO 24" AFF WITH FRG PLYWOOD ABOVE ON KITCHEN SIDE OF PARTITIONS THROUGHOUT KITCHEN UNLESS OTHERWISE NOTED. FULL SHEETS OF PLYWOOD ABOVE CEMENT BOARD TO BE ORIENTED 8" IN VERTICAL DIRECTION.
- EXTEND GYPSUM BOARD TO DECK ON EXISTING EXTERIOR WALLS IN AREAS WITH OPEN TO STRUCTURE CEILINGS WHERE REQUIRED TO ACHIEVE A SMOOTH AND UNIFORM SURFACE WITH EXISTING ADJACENT FINISHES FOR NEW FINISH APPLICATION.
- RESTROOMS - PROVIDE MOISTURE BOARD FULL HEIGHT, PROVIDE CEMENT BOARD WHERE WALL TILE INSTALLED
- WHERE CEILING OCCURS, EXTEND FINISH MATERIALS 6" ABOVE CEILING
- WHERE NO CEILING OCCURS EXTEND FINISH MATERIALS TO UNDERSIDE OF DECK UNLESS NOTED OTHERWISE
- DECK AND SUPPORTING STRUCTURE SHOWN SCHEMATICALLY. SEE DETAILS FOR ACTUAL CONFIGURATION, TYP
- PROVIDE INSULATION ONLY WHERE INDICATED BY PARTITION TYPE INDICATOR
- CONTRACTOR TO VERIFY EXISTING DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF ANY AND ALL WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION

PARTITION KEY



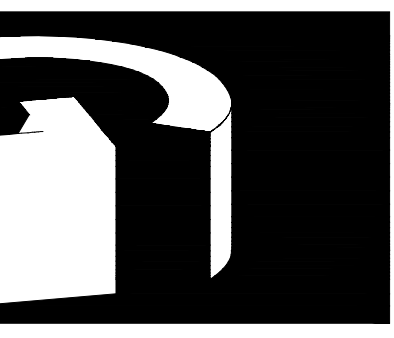
SHEET SYMBOLS

- XXXXXX PARTITION TYPE INDICATOR, SEE 1/A-111
- XXX DOOR INDICATOR, SEE A-601
- X WINDOW TYPE INDICATOR, SEE A-602
- FE WALL MOUNTED TYPE 2A-10/BC FIRE EXTINGUISHER, VALVE TO BE 48" AFF MAX



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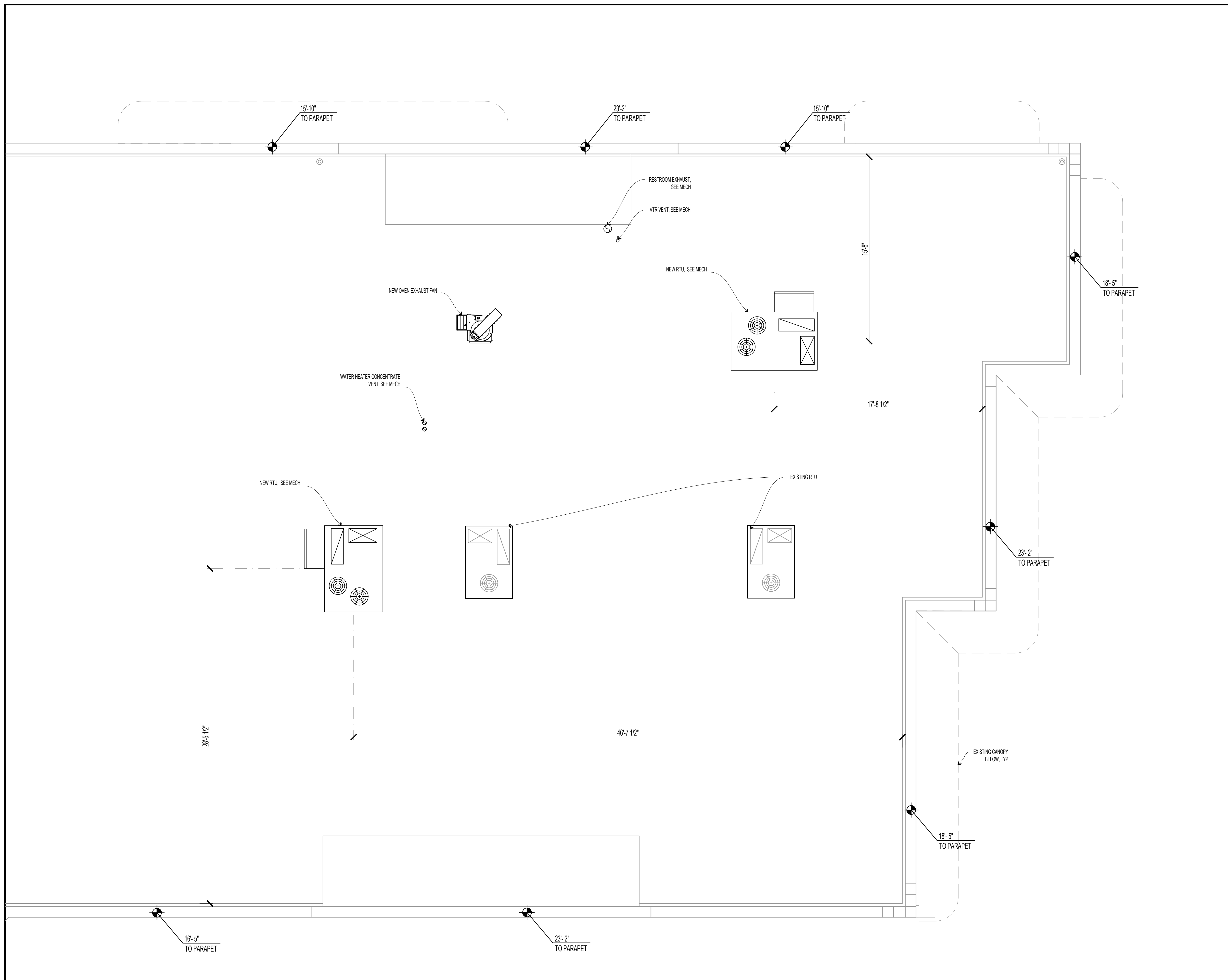
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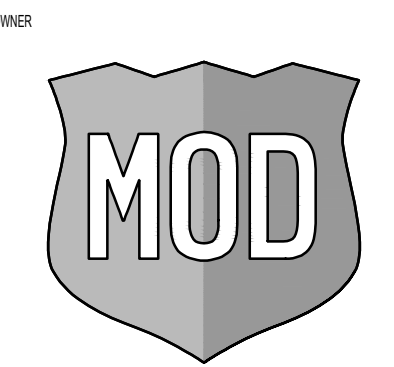
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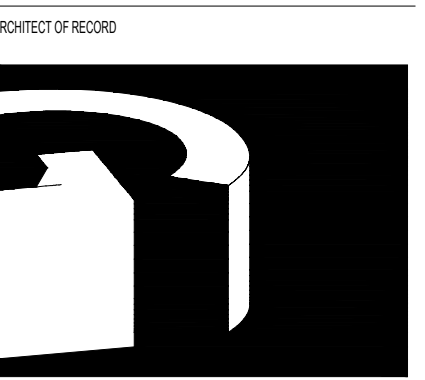
A-111
FLOOR PLAN



SHEET NOTES



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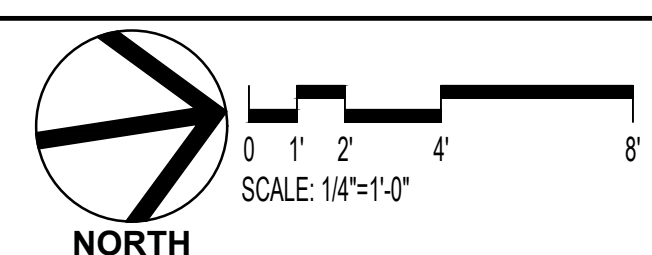


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A-130
 ROOF PLAN



FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED

TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
BASE						
BA-102	RUBBER COVE BASE - 4"	ARMSTRONG / V4161	4TH	*Graphite Gray LRV: 7 Paint Match - SW7062	CONTRACTOR	EMPLOYEE SIDE OF CASEWORK; CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-104	FORBO WALL BASE - 6"	FORBO / WALL BASE / C35 LAVA	6TH	C35 LAVA	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BRICK						
X-BR-303	FAUX BRICK PANEL - COUNTRY WHITE	CONSTRUCTION SPECIALTIES / ARTERRA COUNTRY BRICK WHITE	51-9/16"W X 34-5/8"H X 1-3/16"THK	WHITE	CONTRACTOR	---
CEILINGS						
CL-100	2X4 ACOUSTIC CEILING PANEL	OWNES CORNING	2"W X 4" L X 2"THK	*White; Vinyl Face LRV: 78	CONTRACTOR	2" THICK
TILE						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-1/4"W X 12-3/4"L X 5/16"THK	*0790 Arctic White; Matte LRV: 83	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in 'Charcoal Gray' for Oven tile application (high-heat surfaces) - SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-118	4X12 SEMI-GLOSS COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0190	4-1/4"W X 12-3/4"L X 5/16"THK	SEMI-GLOSS ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0790	4-1/4"W X 12-3/4"L X 5/16"THK	*Matte Arctic White LRV: 83	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in 'Charcoal Gray' for Oven tile application (high-heat surfaces) - SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-204	SLIDE 4X12 WALL TILE - OCEAN	EUROWEST / SLIDE OCEAN 754866	4"W X 12"L X 5/16"THK	OCEAN; GLOSS	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL; STRAIGHT STACK

CORRUGATED METAL						
X-CM-800	1/4" CORRUGATED METAL - DARK BRONZE	BRIDGER STEEL / CORRUGATED METAL SIDING PANEL SYSTEM	1/4"	CORRUGATED; 24 GAUGE	DARK BRONZE	CONTRACTOR INSTALL WITH EXPOSED FASTENERS; USE MATCHING TRIM PROFILES FOR CORNERS, BASE AND WAINSCOT TRIM
COUNTER SURFACE						
CS-102	QUARTZ - LORRAINE	WILSONART / Q1012	20M.55" X 120" SLAB	LORRAINE	CASEWORK	---
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2"; 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	---
FABRIC						
FA-112	VINYL - DAFFODIL	WOLF GORDON / G0H31925153	54" WIDE	DAFFODIL - EAST VILLAGE (EAV 8449)	CASEWORK	---
FIBER REINFORCED PLASTIC						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4W X 8' OR 10L X 3/32"THK	*White; Pebbled Surface LRV: 83	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4W X 8' OR 10L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
HOT ROLLED STEEL						
HS-103	HOT ROLLED STEEL - POWDERCOAT	---	---	*Prismatic Powders / PPB-4888 / Flattop Black LRV: 9 Paint Match - SW7645	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
MELAMINE						
ML-100	MELAMINE - WHITE	MEDEX	---	WHITE	CASEWORK	---
ML-101	MELAMINE - BLACK	MEDEX	---	BLACK	CASEWORK	---

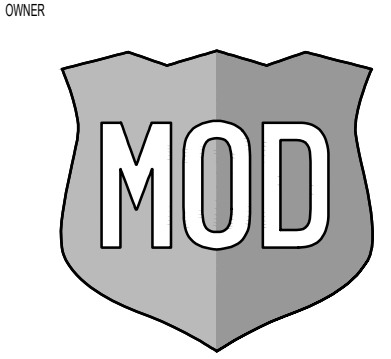
PLASTIC LAMINATE						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	---	BLACK; MATTE	CASEWORK	---
PL-106	PLASTIC LAMINATE - WHITE	WILSONART / 1573-60	---	FROSTY WHITE; MATTE	CASEWORK	---
PAINT						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	---	*Ceiling Bright White; Semi-gloss LRV: 83	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOUJ WHITE	SHERWIN WILLIAMS / SW7042	---	SHOUJ WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-121	PAINT - SANDBAR	SHERWIN WILLIAMS / SW7547	---	SANDBAR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-124	PAINT - BRAINSTORM BRONZE	SHERWIN WILLIAMS / SW7033	---	BRAINSTORM BRONZE; SW7033	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE						
SC-100	SEALED CONCRETE	CONSOLIDECK	---	CONCRETE PROTECTOR; CLEAR	CONTRACTOR	PENETRATING SEALER; USDA APPROVED
STAINLESS STEEL						
ST-100	STAINLESS STEEL PANEL	---	---	#4 FINISH	CONTRACTOR	---
WALLCOVERING						
WC-108	WALL COVERING - FOUNDATION - ONYX	Wolf Gordon / Foundation / FDN 5406 / G0H32134203	52"W	CONCRETE MIX	CONTRACTOR	---
WOOD						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / V035-00915	8.98" X 72.05" X 8MM	WADDINGTON OAK	CASEWORK	---
WD-123	LOST COAST REDWOOD PANELING - NYLON BRUSHED	TERRAMA / LOST COAST REDWOOD 7" PANELING - WEATHERED; NYLON BRUSHED	7"W X 2" TO 5" RANDOM L X 1/2"THK	UNFINISHED NYLON BRUSHED WEATHERED FACE	CONTRACTOR	---
WD-200	SOLID MAPLE	---	---	CLEAR COAT; MATTE	CONTRACTOR	RESTROOM DOORS
WIRE MESH						
WM-103	WIRE METAL MESH - 2" SQUARE	MONICHOOLS / 3620320048	2" SQUARE WELDED 2330" WIRE; 48"X96"	COLD ROLLED STEEL	MONICHOOLS	---

TRIM & WALL PROTECTION SCHEDULE

QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	FINISH	VENDOR/SUPPLIER	REMARKS
TRIM & WALL PROTECTION (CONTRACTOR VERIFY QUANTITIES AND SIZES REQUIRED; CORNER GUARD TO GO FULL HEIGHT OF WALL U.N.O.)							
---	C-700	ANGLED CORNER GUARD - HOT ROLLED STEEL	CASEWORK OR BFC METALS	1-1/2"W X 1-1/2"D X 1/8"L	HS-103	CASEWORK OR BFC METALS	START AT TOP OF BASE
---	C-701	ANGLED CORNER GUARD - STAINLESS STEEL	CUSTOM	Z"W X 2"D X CUSTOM LENGTH	STAINLESS STEEL	CONTRACTOR	START AT TOP OF BASE
---	C-703	ANGLED CORNER GUARD - INSIDE CORNER	CASEWORK OR BFC METALS	3/4"W X 3/4"D X CUSTOM LENGTH	HS-103	CASEWORK OR BFC METALS	FOR WOOD WALL INSIDE CORNERS
---	C-704	CHAIR RAIL	CASEWORK OR BFC METALS	4"W X 96"L	HS-103	CASEWORK OR BFC METALS	EASED EDGES
---	C-705	FLAT BAR STEEL TRIM - 5"	CASEWORK OR BFC METALS	5"W X 96"L	HS-103	CASEWORK OR BFC METALS	VERIFY WALL LENGTH & DEPTH WITH PROPOSED FINISHES
---	C-706	WALL CAP STEEL TRIM	CASEWORK OR BFC METALS	CUSTOM WIDTH X CUSTOM LENGTH	HS-103	CASEWORK OR BFC METALS	VERIFY WALL LENGTH & DEPTH WITH PROPOSED FINISHES
---	X-C-707	SCHLUTER QUADEC - ALUMINUM	SCHLUTER / QUADEC Q-80-AE	8-2-1/2"L X 1/4"W	SATIN ANODIZED ALUMINUM	CONTRACTOR	USE AT LIGHT TILE CORNERS
---	X-C-708	SCHLUTER QUADEC - DARK ANTHRACITE	SCHLUTER / QUADEC Q-80-TSDA	8-2-1/2"L X 1/4"W	DARK ANTHRACITE	CONTRACTOR	USE AT DARK TILE CORNERS

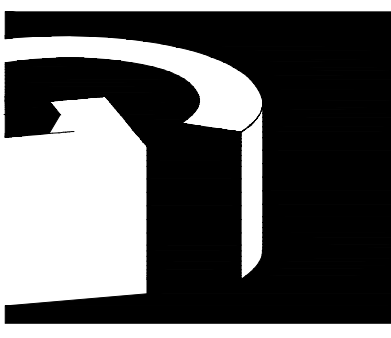
SHEET NOTES

- VERIFY WITH OWNER FOR COMPLIANCE WITH ALL HEALTH DEPARTMENT CONDITIONS OF APPROVAL.
- PROPER PREPARATION OF ALL NEW AND EXISTING SURFACES IN A SATISFACTORY MANNER TO RECEIVE NEW FINISHES. THIS INCLUDES THE DEMOLITION AND REMOVAL OF NECESSARY ITEMS. TOUCH-UP AND/OR REFINISH OF SURFACES DAMAGED BY SUBSEQUENT WORK. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS.
- PAINTER SHALL REMOVE ALL HARDWARE, SWITCH COVERS, ETC. PRIOR TO PAINTING AND BE RESPONSIBLE FOR REINSTALLATION AFTER PAINTING IS COMPLETED.
- ALL FINISHES SHALL BE TOUCHED UP TO CORRECT ANY IMPERFECTIONS AFTER APPLICATION. FIXTURE CONTRACTOR SHALL PROVIDE TO THE GENERAL CONTRACTOR ALL MATERIALS FOR TOUCH UP WORK.
- PAINT SURFACES TO RECEIVE GRAPHICS APPLIED DIRECTLY TO SURFACE OF WALL AT LEAST (1) WEEK PRIOR TO INSTALLATION OF GRAPHIC.
- PAINT FINISH TO TRANSITION AT INSIDE CORNERS THROUGHOUT, UON.
- ALL GWB OUTSIDE CORNERS TO RECEIVE FULL HEIGHT METAL CORNER BEAD.
- NO ELECTRICAL DEVICES, SENSORS, THERMOSTATS, FIRE PROTECTION DEVICES OR LIGHT FIXTURES TO BE LOCATED ON THE GRAPHIC AREAS, OR WITHIN 6" OF WALL GRAPHIC, WALL ARTWORK, MENU BOARDS AND BADGES, UON. NOTIFY OWNER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
- REFER TO INTERIOR ELEVATIONS FOR WALL FINISHES.



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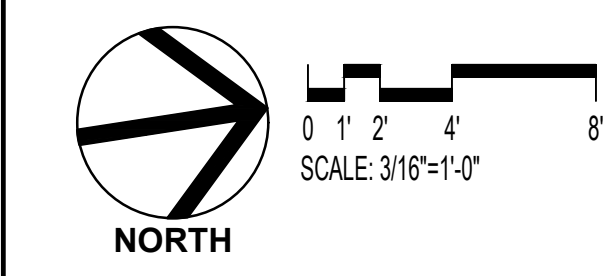
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SHEET SYMBOLS

- X-XXX** FINISH TAG
- C-XXX** TRIM TAG



A-131
FLOOR FINISH/TRIM PLAN &
FINISH SCHEDULE

EQUIPMENT SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED (VENDORS TO VERIFY QUANTITIES PER PLAN)

QUANTITY	TAG	ITEM	MANUFACTURER/MODEL	VENDOR	REMARKS
ENGINE					
1	E-103	PIZZA OVEN TYPE 1 EXHAUST HOOD	CAPTIVE AIR SYSTEMS / 4824 ND-2	CONTRACTOR	SOURCE ONLY FROM CAPTIVE AIRE NW REGION 85
1	E-107	FIRE DECK OVEN - FAÇADE READY	WOOD STONE / FD-960-RFLGR-R (FAÇADE READY)	EDWARD DON	EARLY INSTALL REQUIRED
1	E-111	OVEN EXHAUST HOOD CONTROL BOX	CAPTIVE AIR SYSTEMS / SC-110110MA	CAPTIVE AIRE	MOUNT 8'-0" AFF. REFER TO HOOD DRAWINGS
1	E-112	ANSUL AUTOMAN	LOCAL ANSUL SYSTEM INSTALLER / R-102	CONTRACTOR	MOUNT 8'-0" AFF. REFER TO HOOD DRAWINGS
1	E-120	DOUGH PRESS	PIZZA EQUIPMENT PROFESSIONALS / PZF30-DF	EDWARD DON	12" BDL FLAT
1	E-121	DOUGH PRESS STAND	FENIX SOL / PRESSSTAND	EDWARD DON	WITH DRAWER, INSERT, DOUGH SPATULA & CASTERS
1	E-132	STAINLESS STEEL TABLE - 30"X48"	REGENCY / 600TSSB3048S, 600UT3048S, 600CASTER	EDWARD DON	WITH 4" BACKSPLASH, 42"X24" UNDERSHELF AND 5" CASTERS
1	X-E-135	REFRIGERATED COUNTER - 27" WITH HOOD	TRUE MANUFACTURING / TSSU-27-12M-C-ADA-HC	EDWARD DON	8-7/8" CUTTING BOARD, 5" CASTERS
2	E-136	REFRIGERATED COUNTER - 72" WITH FLAT LID	TRUE MANUFACTURING / TSSU-72-30M-B-ST-HC (MODE)	EDWARD DON	8-7/8" CUTTING BOARD, 3" CASTERS
1	E-139	REFRIGERATED COUNTER - 72" WITH HOOD	TRUE MANUFACTURING / TSSU-72-30M-B-ST-HC (MODE)	EDWARD DON	8-7/8" CUTTING BOARD, 5" CASTERS
1	X-E-150	BUILT-IN REACH-IN COOLER - 47"	STRUCTURAL CONCEPTS / CO43R-UC	EDWARD DON	---
1	E-155	POS SCREEN	PAR / EVERSERV 600	PAR	COMES WITH FINGERPRINT READER
1	E-156	POS PRINTER	EPSON / TM-T88V	RTGPOS	---
2	E-157	POS INTERNET PRINTER	EPSON / TM-L90 PLUS	RTGPOS	---
2	E-158	POS CASH BOX	PAR / MB571-03	PAR	(1) ON COUNTER, (1) ON SHELF BELOW COUNTER
1	X-E-165	LOYALTY SCANNER	HONEYWELL / GENESIS 7580G	RTGPOS	---
1	E-182	UNDERCOUNTER REFRIGERATOR - 24" LEFT	TRUE / TUC-24-HC-LH	EDWARD DON	WITH RECESSED CASTERS, FRONT BREATHING
1	E-183	UNDERCOUNTER REFRIGERATOR - 24"	TRUE / TUC-24-HC-RH	EDWARD DON	WITH RECESSED CASTERS, FRONT BREATHING

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED (VENDORS TO VERIFY QUANTITIES PER PLAN)

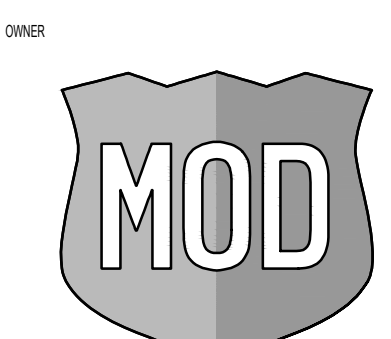
1	X-E-190	DIGITAL PREP STATION	EAGLE GROUP / T3048EBW-2	EDWARD DON	WITH (2) 14" WIRE OVERSHELVES, (1) SOLID UNDERSHELF AND (2) 30" WIRE UNDERSHELVES
1	X-E-206	WOOD TOP PREP TABLE - 48X36	JOHN BOOS & CO / SNS14	EDWARD DON	INSTALL WITH CASTERS
2	X-E-222	SQUEEZE BOTTLE STATION - EIGHT	SERVER / 87340	EDWARD DON	USE WITH ICE OR EUTECTIC ICE PACKS; KEEPS SAUCES COLD FOR UP TO 4 HRS.
1	E-231	LANE/7000 EMV READER	INGENICO / LANE/7000 TAILWIND / CST00166 (BACKPLATE) HILPRO / SWIVEL STAND FOR PAX S300	PAR	INSTALL ON SWIVEL STAND USING BACKPLATE; SEE INSTALLATION GUIDE
1	X-E-233	CLP DISPENSER	VOLLRATH / K2H	EDWARD DON	INSTALL HORIZONTALLY ON METRO SHELF AT POS
1	E-380	HAND SINK - WALL MOUNTED	FENIX SOL / HS-SEHS-17	EDWARD DON	8" SIDE SPLASH GUARDS, 8" BACKSPLASH
1	E-381	HAND SINK FAUCET	FISHER / 3526	EDWARD DON	DECK MOUNTED, 4" OC
KITCHEN					
1	E-300-ST	WALK-IN COOLER/FREEZER - 16' STRAIGHT	NORLAKE / NL1991260LM-C	EDWARD DON	(2) COMPARTMENT; 36" X 78" DOORS; 36" FREEZER DOOR STRIP CURTAIN, OREGON SEAL
1	E-310	CAPSULE PAK REFRIGERATION UNIT - COOLER	NORLAKE / RCP9100JC-S-4-EV	EDWARD DON	INSTALLED ON TOP OF WALK-IN COOLER; REFER TO INSTALLATION MANUAL
1	E-311	CAPSULE PAK REFRIGERATION UNIT - FREEZER	NORLAKE / RCP9075JC-S-4-EV	EDWARD DON	INSTALLED ON TOP OF WALK-IN FREEZER; REFER TO INSTALLATION MANUAL
1	E-320	DISHWASHER	ECOLAB / ES-2000HT	ECOLAB	INTEGRAL VAPOR VENT
1	E-324	CLEAN DISH TABLE - RIGHT	FENIX SOL / 16-COT-26 CLEAN TABLE RIGHT	EDWARD DON	1-1/2" ROLLED EDGE RAISED 2"; 10" BACKSPLASH
1	E-340	THREE COMPARTMENT SINK - LEFT	FENIX SOL / 16-DOTS-90 3COMP SOILED L	EDWARD DON	(3) TUBS; 1-1/2" ROLLED EDGE RAISED 2"; 10" BACKSPLASH
1	E-342	THREE COMPARTMENT SINK FAUCET & SPRAYER	FISHER / 73135	EDWARD DON	SPLASH MTD; SPRING ACTION FLEXIBLE GOOSENECK; WALL BRACKET
1	E-343	THREE COMPARTMENT SINK DISPENSER	SSDC / SINK RITE DOUBLE UNIT	SSDC	CONNECT TO SPRAYER WATER SUPPLY LINE
1	E-360	PREP TABLE - STAINLESS STEEL	FENIX SOL / 16-3-WT30X60G-4	EDWARD DON	1-1/2" STALLION EDGE; 5" BACKSPLASH; MOUNT BOTTOM SHELF W/ #8 X 1 SELF-TAPPING SCREWS 8" AFF; ATTACH TABLE TO PARTITION
1	E-363	PREP SINK FAUCET	FISHER / 3252	EDWARD DON	SPLASH MOUNTED; 8" OC
1	E-361	PREP SINK - LEFT	FENIX SOL / 16G-1C1620-D18 1COMP SINK L	EDWARD DON	1-1/2" ROLLED EDGE RAISED 2"; 9" BACKSPLASH
1	E-380	HAND SINK - WALL MOUNTED	FENIX SOL / HS-SEHS-17	EDWARD DON	8" SIDE SPLASH GUARDS, 8" BACKSPLASH
1	E-381	HAND SINK FAUCET	FISHER / 3526	EDWARD DON	DECK MOUNTED, 4" OC
DINING					
1	E-500	SODA MACHINE	CORNELIUS / DF200 PART #621053001	COCA COLA	---
1	E-501	ICE MACHINE	ICE-O-MATIC / GEM0956A	EDWARD DON	CHEWABLE ICE CRYSTALS
2	E-502	JUICE DISPENSER	GRINDMASTER / CRATHCO CECILWARE D25-3	EDWARD DON	(2) 5-GAL CLEAR BOWLS; LOW FOAM IMPELLER
1	E-504	WATER FILTRATION SYSTEM - 1	KINETICO / SMF ICEPRO 600	EDWARD DON	INSTALL AT BEVERAGE CASEWORK UNDER COKE MACHINE
4	E-512	SPEAKER - DINING	BOSE / FREESPACE DS 100F	RTGPOS	---
2	E-513	SPEAKER - RESTROOM	BOSE / FREESPACE DS 16F	RTGPOS	---
2	E-514	SPEAKER - PATIO	BOSE / FREESPACE DS 100SE	RTGPOS	---
STORAGE					
1	E-400	MOP SINK	ELKAY / FLR-3X	CONTRACTOR	2" FREE FLOW DRAIN, 3-1/2" FLAT STRAINER
1	E-401	MOP SINK FAUCET	FISHER / 8253	EDWARD DON	SERVICE SINK FAUCET WITH LONG SPOUT & VACUUM BREAKER
1	E-402	MOP SINK DISPENSER	SSDC / MOP RITE 3	SSDC	CONNECT TO DEDICATED WATER SUPPLY LINE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED (VENDORS TO VERIFY QUANTITIES PER PLAN)

1	E-421	TEA BREWER & DISPENSER	BUNN / 36700.0059 TB30, 34100.0000 TD0-4	EDWARD DON	WITH HANDLED DISPENSER
1	E-425	BIG STIK - 16" IMMERSION BLENDER	WARING COMMERCIAL / WSB60	EDWARD DON	---
1	E-426	DOUGH PRESS BACKUP	DOUGHXPRESS / DMS-2-18	EDWARD DON	(1) PER REGION
1	E-428	COKE BIB RACK	MCCANN'S / IC 44238 & IC 44240	COCA COLA	RACK PROVIDED AND INSTALLED BY COKE. GC TO PROVIDE 4" CONDUIT FROM BIB RACK TO FOUNTAIN MACHINE; WITH NO HARD 90 DEGREE CORNERS
1	E-430	AUDIT SAFE	AMSEC / DSF2516	EDWARD DON	INSTALL W/ 6" BASE, PROVIDED
1	E-431	NAT GAS TANKLESS WATER HEATER	NORITZ / NCC159CDV (GQ-C3259WZ-FE US NG)	CONTRACTOR	SEE MECHANICAL DRAWINGS; WALL MOUNT USING NORITZ CR COMMERCIAL RACK SYSTEM (MODEL # CR60-WH-2-NG)
1	E-433	CAN OPENER	VOLLRATH / BCO-1	EDWARD DON	MANUAL; QUICK CHANGE
1	E-434	9U NETWORK RACK	TRIPP-LITE / SMARTTRACK SRM19UG	RTGPOS	INSTALLED AT MANAGER'S DESK
1	E-510	AUDIO AMPLIFIER	BOSE / POWERSHARE P5602	RTGPOS	LOCATE AT MANAGER'S DESK
1	E-511	AUDIO CONTROL CENTER	BOSE / CONTROLCENTER CC-1	RTGPOS	(2) CONTROLS FOR (2) ZONES; LOCATE ON LEFT WALL OF MANAGER'S DESK
DINING					
1	E-500	SODA MACHINE	CORNELIUS / DF200 PART #621053001	COCA COLA	---
1	E-501	ICE MACHINE	ICE-O-MATIC / GEM0956A	EDWARD DON	CHEWABLE ICE CRYSTALS
2	E-502	JUICE DISPENSER	GRINDMASTER / CRATHCO CECILWARE D25-3	EDWARD DON	(2) 5-GAL CLEAR BOWLS; LOW FOAM IMPELLER
1	E-504	WATER FILTRATION SYSTEM - 1	KINETICO / SMF ICEPRO 600	EDWARD DON	INSTALL AT BEVERAGE CASEWORK UNDER COKE MACHINE
4	E-512	SPEAKER - DINING	BOSE / FREESPACE DS 100F	RTGPOS	---
2	E-513	SPEAKER - RESTROOM	BOSE / FREESPACE DS 16F	RTGPOS	---
2	E-514	SPEAKER - PATIO	BOSE / FREESPACE DS 100SE	RTGPOS	---
STORAGE					
1	E-400	MOP SINK	ELKAY / FLR-3X	CONTRACTOR	2" FREE FLOW DRAIN, 3-1/2" FLAT STRAINER
1	E-401	MOP SINK FAUCET	FISHER / 8253	EDWARD DON	SERVICE SINK FAUCET WITH LONG SPOUT & VACUUM BREAKER
1	E-402	MOP SINK DISPENSER	SSDC / MOP RITE 3	SSDC	CONNECT TO DEDICATED WATER SUPPLY LINE

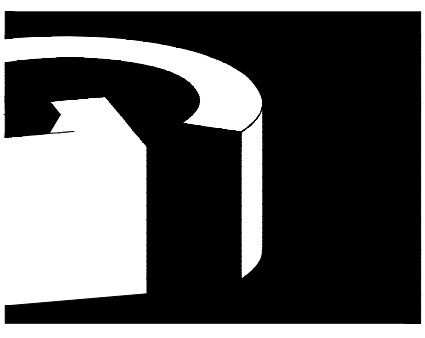
SHEET NOTES

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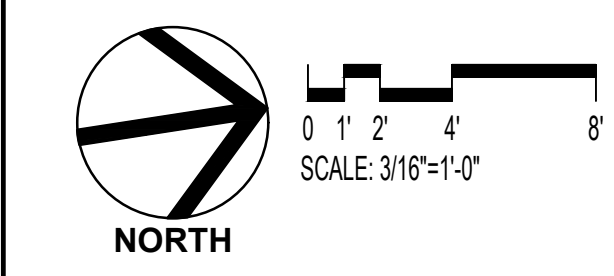
10.15.21

DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED PERMIT/BID SET DATE 10.15.21

SHEET SYMBOLS

X-XXX EQUIPMENT TAG



A-132
EQUIPMENT PLAN

FURNITURE SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. VENDORS TO VERIFY QUANTITIES PER PLAN.

QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	FINISH	VENDOR	REMARKS
TABLE TOPS							
6	F-100-OK	30X24 TABLE TOP	CUSTOM	30"W X 24"D X 1-3/4"THK	RESAWN, LIGHTLY TOASTED STAIN	CUSTOM	---
7	F-101-OK	30X48 TABLE TOP	CUSTOM	48"W X 30"D X 1-3/4"THK	RESAWN, LIGHTLY TOASTED STAIN	CUSTOM	---
3	F-103-OK	30X30 SQUARE TABLE TOP	CUSTOM	30"W X 30"D X 1-3/4"THK	RESAWN, LIGHTLY TOASTED STAIN	CUSTOM	---
4	F-106-OK	36" ROUND TABLE TOP	CUSTOM	36"DIA X 1-3/4"THK	RESAWN, LIGHTLY TOASTED STAIN	CUSTOM	---
2	F-108-BR	30X36 COMMUNITY TABLE TOP	CUSTOM	36"DIA X 30"D X 1-3/4"THK	RESAWN, BOURBON STAIN	CUSTOM	---
3	F-111-OK	30X60 TABLE TOP	CUSTOM	60"W X 30"D X 1-3/4"THK	RESAWN, LIGHTLY TOASTED STAIN	CUSTOM	BOOTH ONLY
1	F-CUST-OK	12X72 BUDDY BAR TABLE TOP	CUSTOM	72"L X 12"D X 1-3/4"THK	RESAWN, LIGHTLY TOASTED STAIN	CUSTOM	---
TABLE BASES							
20	F-200	END BASE - 28.5"	J.H. CARR / 1825303KT	22"W X 3" COLUMN, 28.5"H	BLACK SANDEX	EDWARD DON	---
5	F-201	CROSS BASE - 28.5"	J.H. CARR / 1822303KT	22"W X 22"L, 3" COLUMN, 28.5"H	BLACK SANDEX	EDWARD DON	---
4	F-220	BOLT DOWN BASE - 28.5"	FOLDCRAFT / J-28-BL	3" DIA X 28-1/2"H	BLACK SANDEX	EDWARD DON	BOLT DOWN
7	F-222	BOLT DOWN BASE - 40.5"	FOLDCRAFT / J405BLKT	3" DIA. X 40-1/2"H	BLACK SANDEX	EDWARD DON	BOLT DOWN

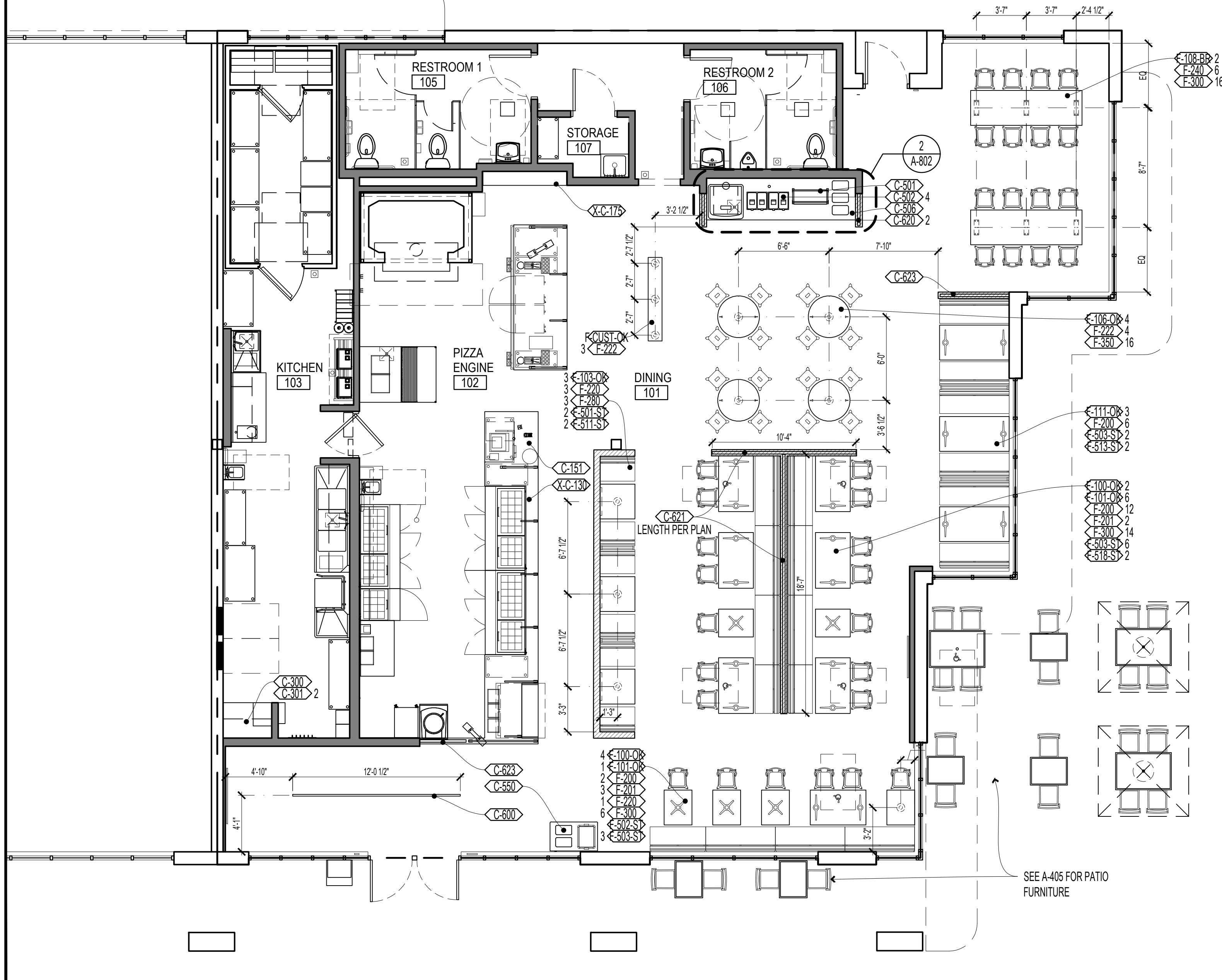
6	F-240	METAL STRAP LEG BASE - 28.5"	CROW WORKS / 50184	4"W X 10"D X 28-1/2"H	GUNMETAL	CROW WORKS	BOLT DOWN
CHairs & Stools							
36	F-300	METAL ARMLESS CHAIR	ATTCO / RETRO CHAIR AT3534C	18"W X 20-1/2"D X 33"H	16 GA. STEEL, HAND POLISHED, SEMI-BRONZE CLEAR COAT	EDWARD DON	STACKABLE, NON-MAR FOOT GLIDES, HEAVY-DUTY FOR COMMERCIAL USE
16	F-350	METAL BAR STOOL - 30"	ATTCO / RETRO BARSTOOL AT3503-30C	17"W X 17"D X 30"H	16 GA. STEEL, HAND POLISHED, SEMI-BRONZE CLEAR COAT	EDWARD DON	STACKABLE, NON-MAR FOOT GLIDES, HEAVY-DUTY FOR COMMERCIAL USE
BANQUETTE & BOOTH SEATING							
2	F-501-ST	30" BANQUETTE I - UPHOLSTERED SEAT & WOOD BACK	CUSTOM	30"W X 21-1/2"D X 36"H	LIGHTLY TOASTED OAK, GUNMETAL FRAME, FA-112	FURNITURE	BOLT DOWN
1	F-502-ST	48" BANQUETTE I - UPHOLSTERED SEAT & WOOD BACK	CUSTOM	48"W X 21-1/2"D X 36"H	LIGHTLY TOASTED OAK, GUNMETAL FRAME, FA-112	FURNITURE	BOLT DOWN
11	F-503-ST	60" BANQUETTE I - UPHOLSTERED SEAT & WOOD BACK	CUSTOM	60"W X 21-1/2"D X 36"H	LIGHTLY TOASTED OAK, GUNMETAL FRAME, FA-112	FURNITURE	BOLT DOWN
2	F-511-ST	30" BANQUETTE II - UPHOLSTERED SEAT & WOOD BACK	CUSTOM	30"W X 43-1/4"D X 36"H	LIGHTLY TOASTED OAK, GUNMETAL FRAME, FA-112	FURNITURE	BOLT DOWN
2	F-513-ST	60" BANQUETTE II - UPHOLSTERED SEAT & WOOD BACK	CUSTOM	60"W X 43-1/4"D X 36"H	LIGHTLY TOASTED OAK, GUNMETAL FRAME, FA-112	FURNITURE	BOLT DOWN
2	F-516-ST	42" BANQUETTE I - UPHOLSTERED SEAT & WOOD BACK	CUSTOM	42"W X 21-1/2"D X 36"H	LIGHTLY TOASTED OAK, GUNMETAL FRAME, FA-112	FURNITURE	BOLT DOWN

CASEWORK SCHEDULE

QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	FINISH	VENDOR/SUPPLIER	REMARKS
ENGINE							
1	X-C-129	LINE ENGINE CASEWORK - RIGHT	CUSTOM	---	SEE SHOPS	CASEWORK	---
1	C-151	POS CARD HOLDER	CUSTOM	11-1/4"W X 1"D X 7-3/4" H	HS-103	BFC METALS	FOR CARDS & STICKERS; HUNG ON THE POS SHROUD
1	X-C-175	DIGITAL PICKUP SHELVING SYSTEM - 72"	CUSTOM	72"W X 12"D X 126" H	HS-103 WD-102	CASEWORK	ATTACH TO WALL WITH Z-CLIPS PER VENDOR INSTRUCTIONS; BRACKETS AND WOOD SHELVES INCLUDED; BRACKETS SLIDE INTO GRID SYSTEM
KITCHEN							
1	C-300	MANAGER'S DESK SHELF - 16"	CUSTOM	30"W X 1'-6"D X 1-1/2"THK	ML-100	CASEWORK	GROMMET HOLES IN EACH SHELF; SEE KITCHEN ELEVATIONS
2	C-301	MANAGER'S DESK SHELF - 30"	CUSTOM	30"W X 1'-6"D X 1-1/2"THK	ML-100	CASEWORK	GROMMET HOLES IN EACH SHELF; SEE KITCHEN ELEVATIONS
DINING							
1	C-501	SHELF W/ UTENSIL HOLDER	CUSTOM	30-1/2"W X 11-1/8"D X 38"H	HS-103	BFC METALS	FOIC, ON TOP OF BEVERAGE STATION COUNTERTOP
4	C-502	METAL JUICE TAGS	CUSTOM	---	HS-103	BFC METALS	FOIC, ON TOP OF BEVERAGE STATION COUNTERTOP; INCLUDES (4) TAGS
1	C-506	BEVERAGE STATION CASEWORK - WITH TRASH - LEFT	CUSTOM	128-1/4"W X 36"D X 33"H	CS-201/WD-121	CASEWORK	SCRIBE TO FACE OF PARTITION, WHERE OCCURS; SEE A-113
1	C-550	TRASH CART	CUSTOM	41"W X 25"D X 33-3/8"H	CS-201/WD-121	CASEWORK	---
1	C-600	METAL QUEUE RAIL	CUSTOM	CUSTOM LENGTH X 40-1/2"H	HS-103	CASEWORK	---
2	C-620	BEVERAGE WALL SCREEN	CUSTOM	27-5/8"W X 2"D X 60-3/4"H	HS-103	BFC METALS OR CASEWORK	FASTEN CHANNELS TO HRS TOP AND BOTTOM PLATES WITH SELF-TAPPING SCREWS
2	C-621	LOW WALL SCREEN	CUSTOM	90"W X 2"D X 17"H	HS-103	BFC METALS OR CASEWORK	FASTEN CHANNEL TO HRS BOTTOM PLATE ON LOW WALL; SECURE SCREEN IN PLACE WITH SELF-TAPPING SCREWS
2	C-623	ENGINE SCREEN	CUSTOM	40"W X 2"D X 75-1/8"H	HS-103	BFC METALS OR CASEWORK	FASTEN CHANNELS TO HRS TOP AND BOTTOM PLATES WITH BEVERAGE OPENING; SECURE SCREEN IN PLACE WITH SELF-TAPPING SCREWS

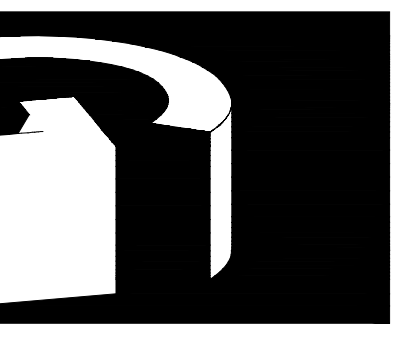
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- GENERAL CONTRACTOR RESPONSIBLE FOR THE INSTALLATION OF FURNITURE AND CASEWORK UNLESS OTHERWISE NOTED.
- FURNITURE AND CASEWORK FOR REFERENCE ONLY. COORDINATE INSTALLATION WITH OWNER & VENDOR



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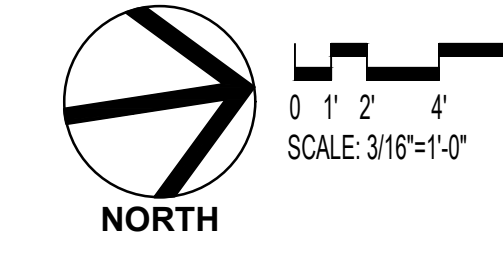


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DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

SHEET SYMBOLS

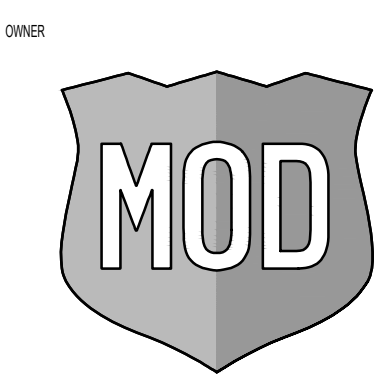
- CASEWORK TAG
- FURNITURE TAG



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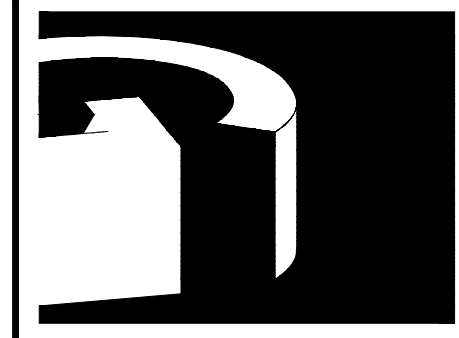
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A-134
FURNITURE & CASEWORK PLAN



OWNER
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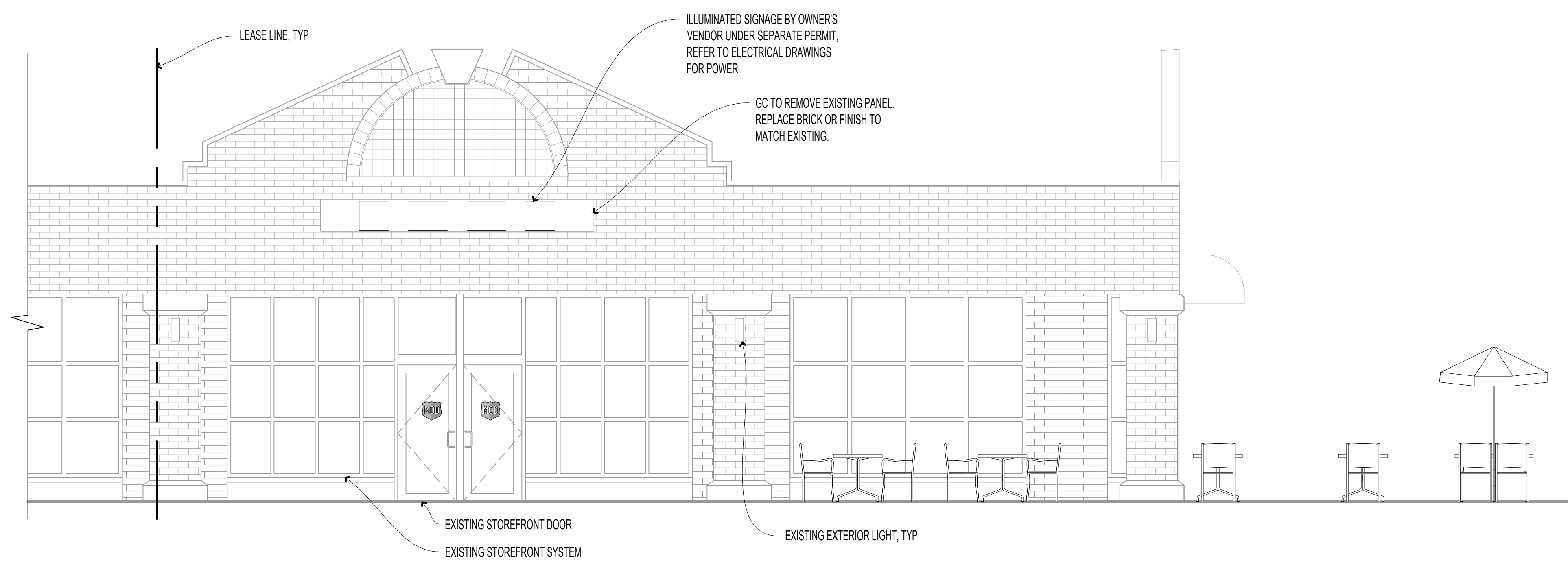
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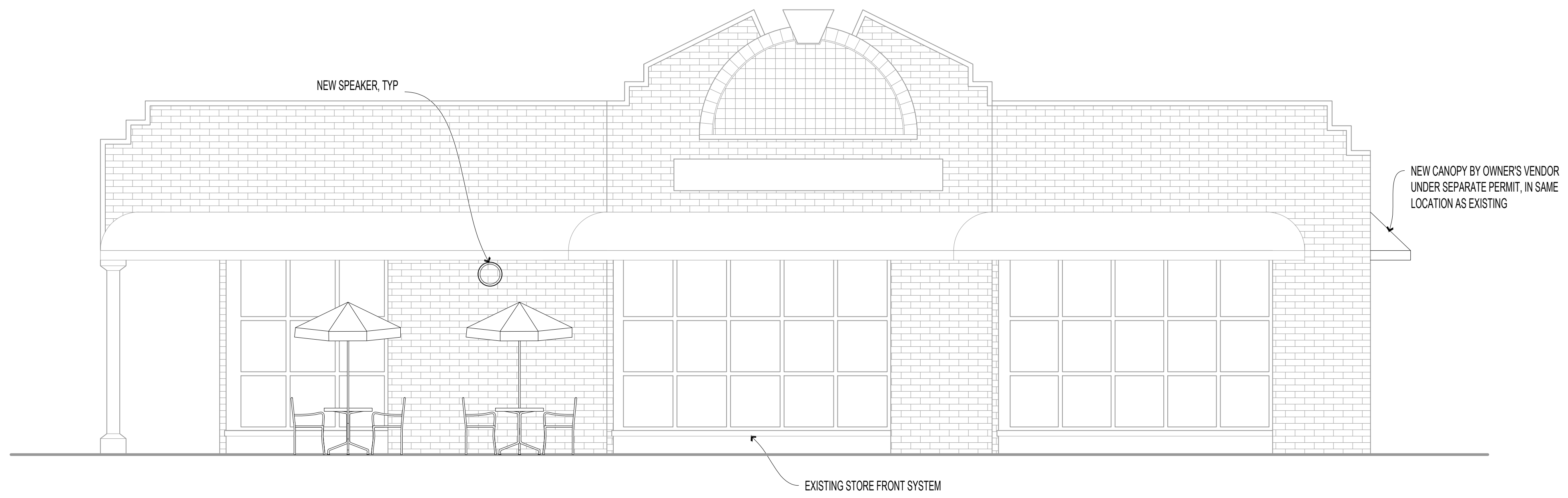
A-201
EXTERIOR ELEVATIONS

- 23'-2" AFF TO PARAPET 03
- 18'-5" AFF TO PARAPET 02
- 15'-10" AFF TO PARPET 01
- 10'-7 1/2" AFF TO HIGHER STOREFRONT
- 0'-0" FINISH FLOOR

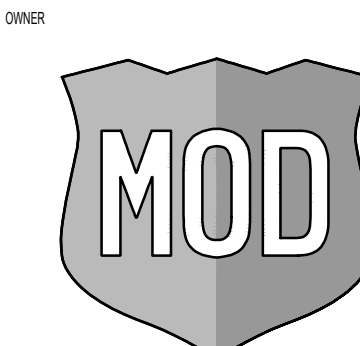


2 EXTERIOR ELEVATIONS - SOUTH
SCALE: 1/4"= 1'-0"

- 23'-2" AFF TO PARAPET 03
- 18'-5" AFF TO PARAPET 02
- 15'-10" AFF TO PARPET 01
- 10'-7 1/2" AFF TO HIGHER STOREFRONT
- 0'-0" FINISH FLOOR

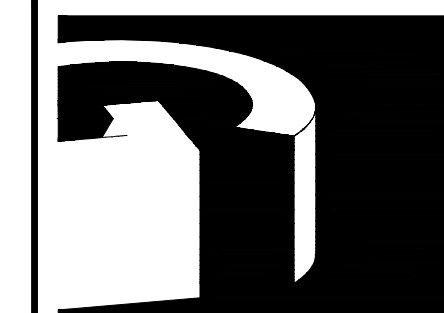


1 EXTERIOR ELEVATION - WEST
SCALE: 1/4"= 1'-0"



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MOD CD TEMPLATE V2.1

PERMIT SET 10.15.21

A-202
EXTERIOR ELEVATIONS

23'-2" AFF TO PARAPET 03

18'-5" AFF TO PARAPET 02

15'-10" AFF TO PARPET 01

10'-7 1/2" AFF TO HIGHER STOREFRONT

0'-0" FINISH FLOOR

ILLUMINATED SIGNAGE BY OWNER'S VENDOR UNDER SEPARATE PERMIT, REFER TO ELECTRICAL DRAWINGS FOR POWER

NEW CANOPY BY OWNER'S VENDOR UNDER SEPARATE PERMIT, IN SAME LOCATION AS EXISTING

PROVIDE NEW DOOR AT EXISTING REAR EXIT

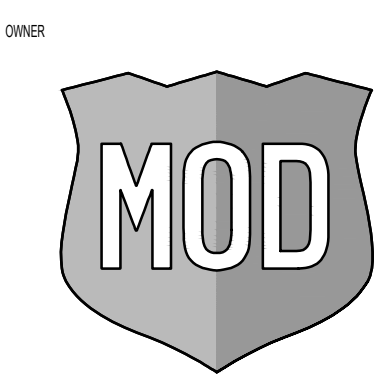
GRAPHIC WINDOW COVERING, SEE GRAPHIC INSTALL GUIDE

LEASE LINE, TYP

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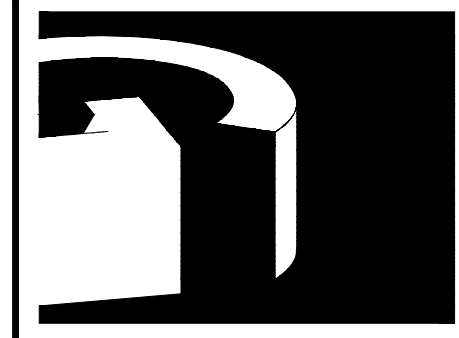
EXTERIOR ELEVATION - NORTH

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



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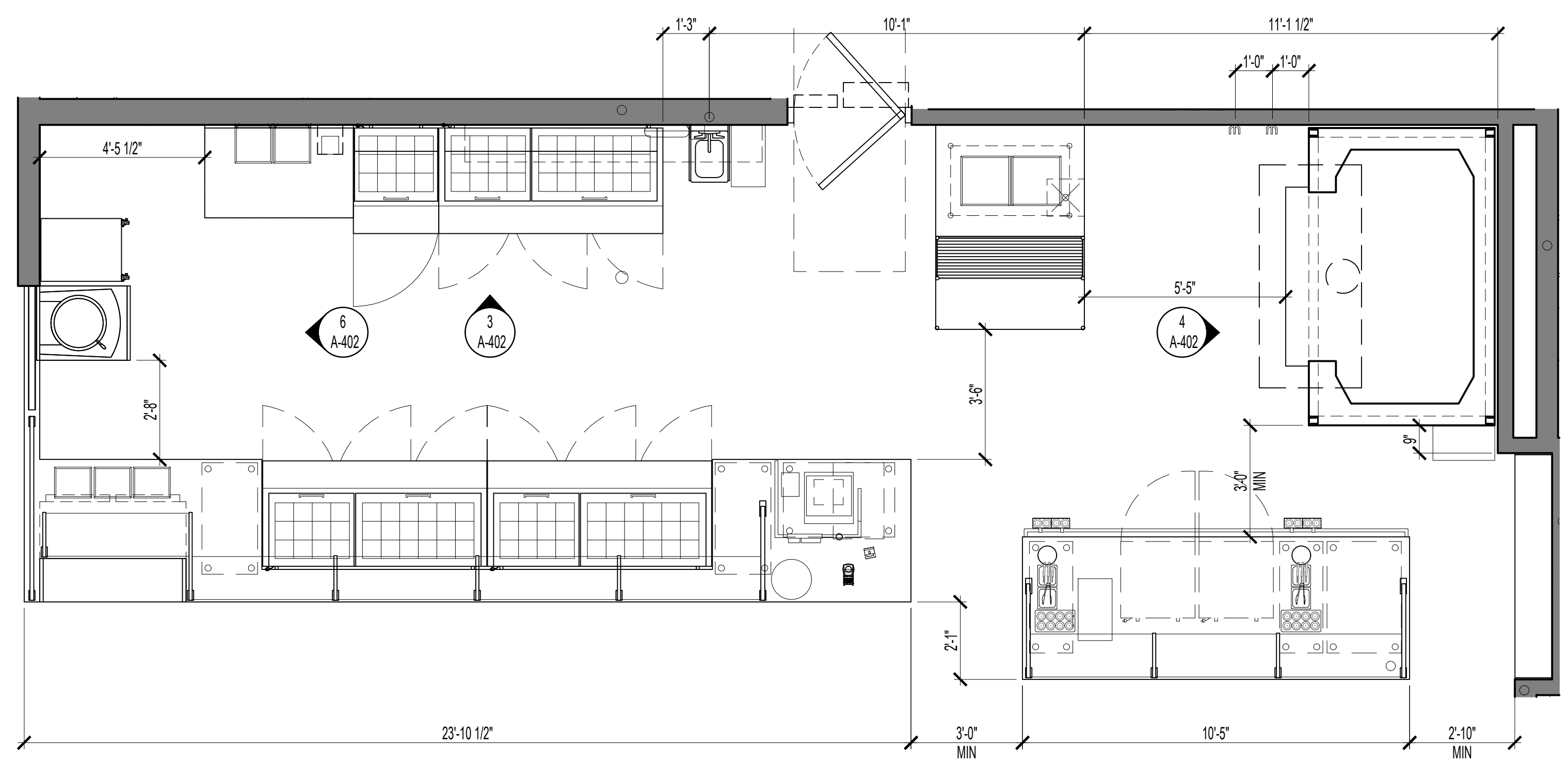
10.15.21

**DOWNTOWN
KIRKLAND**
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

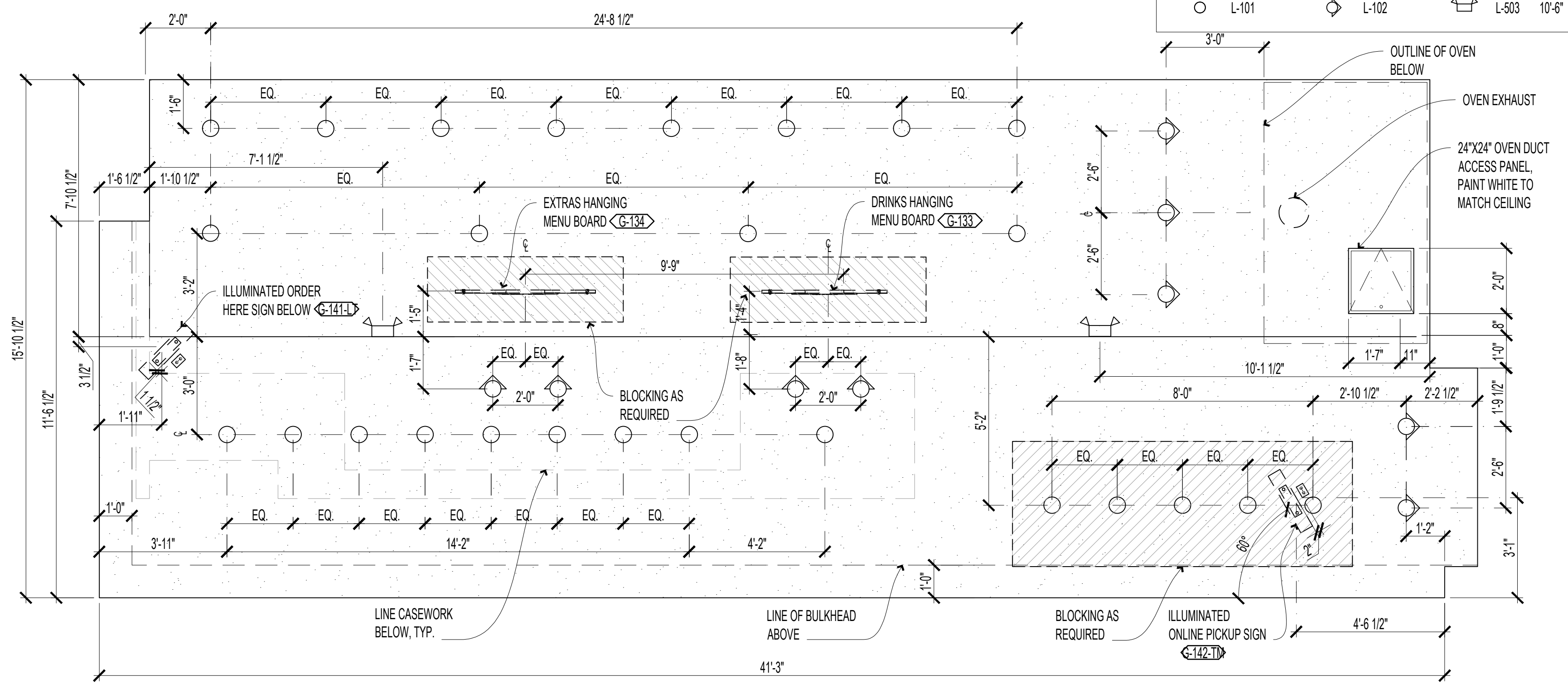
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PERMIT SET 10.15.21

A-401
ENLARGED PLANS AND
DETAILS - PIZZA ENGINE



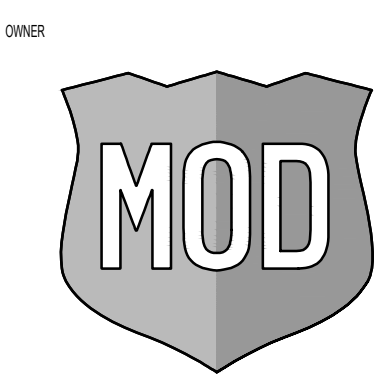
2 ENLARGED REFLECTED CEILING PLAN - PIZZA ENGINE
SCALE: 3/8\" = 1'-0\"

LINE ENGINE - LEFT



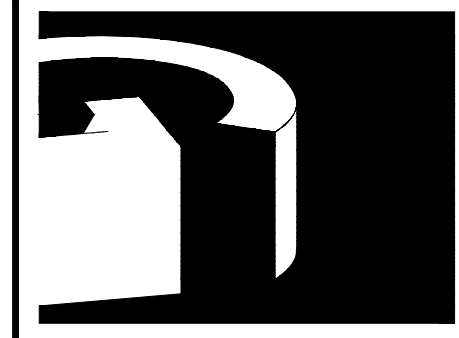
1 ENLARGED PLAN - PIZZA ENGINE
SCALE: 3/8\" = 1'-0\"

LINE ENGINE - RIGHT



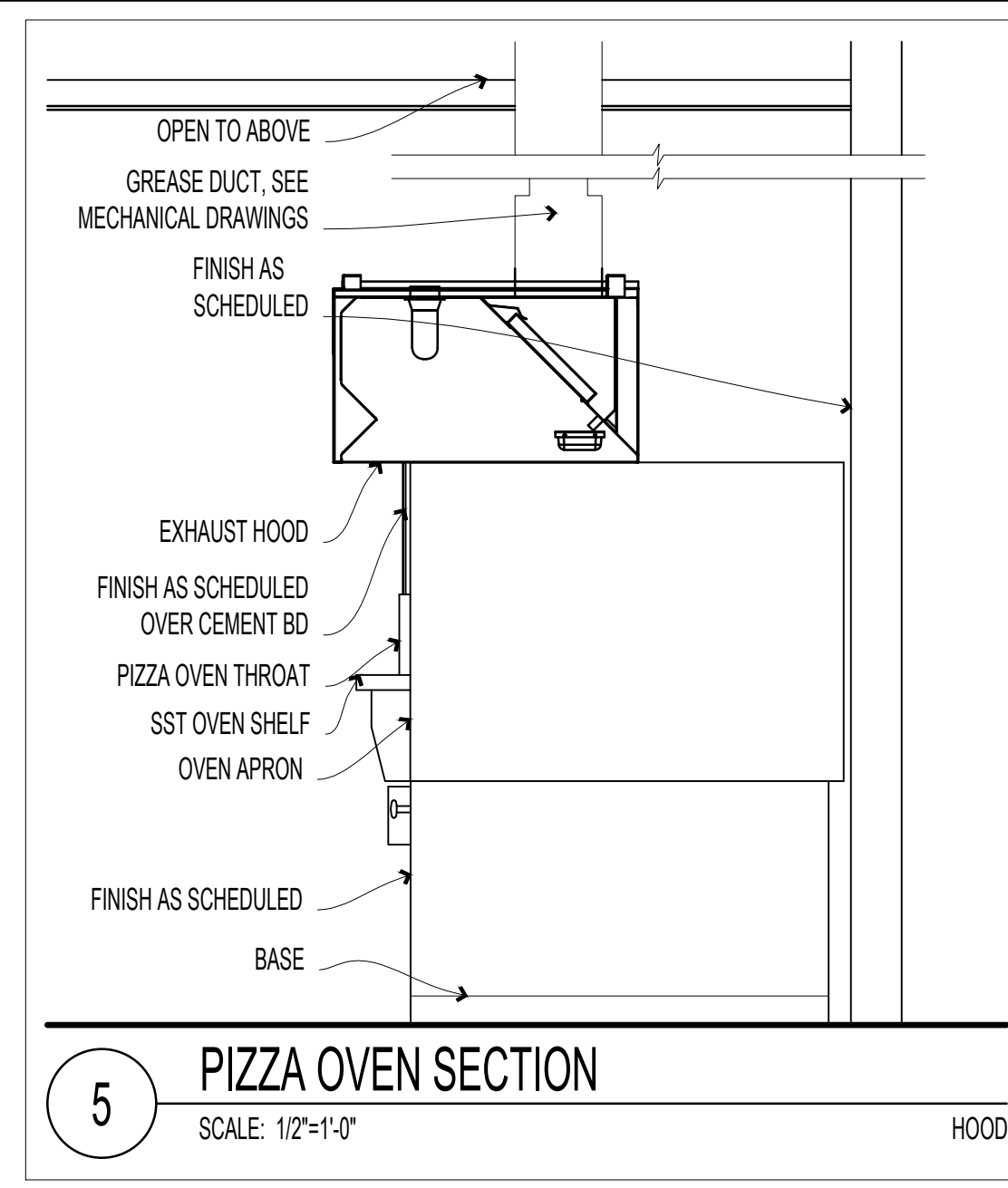
2035 168th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD



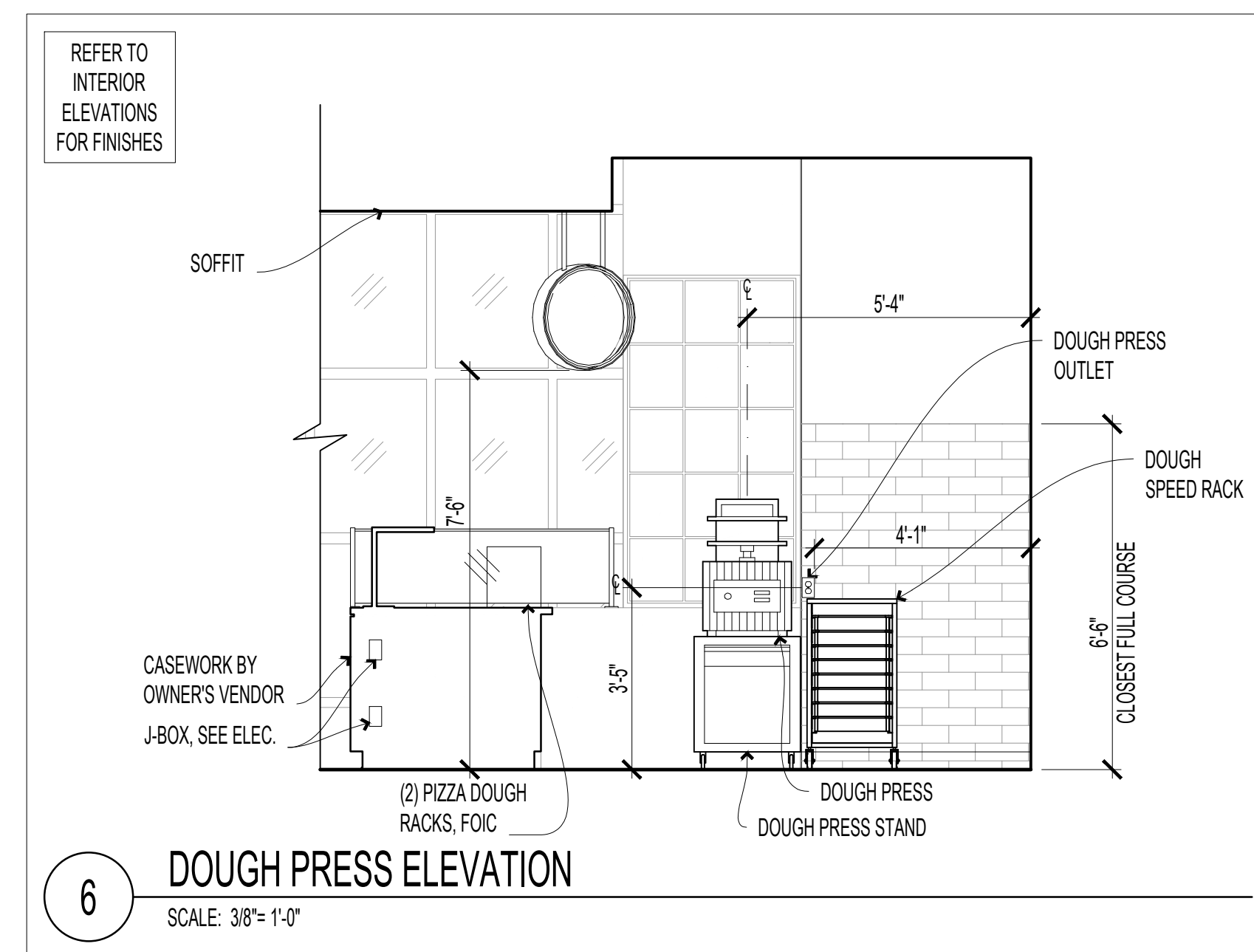
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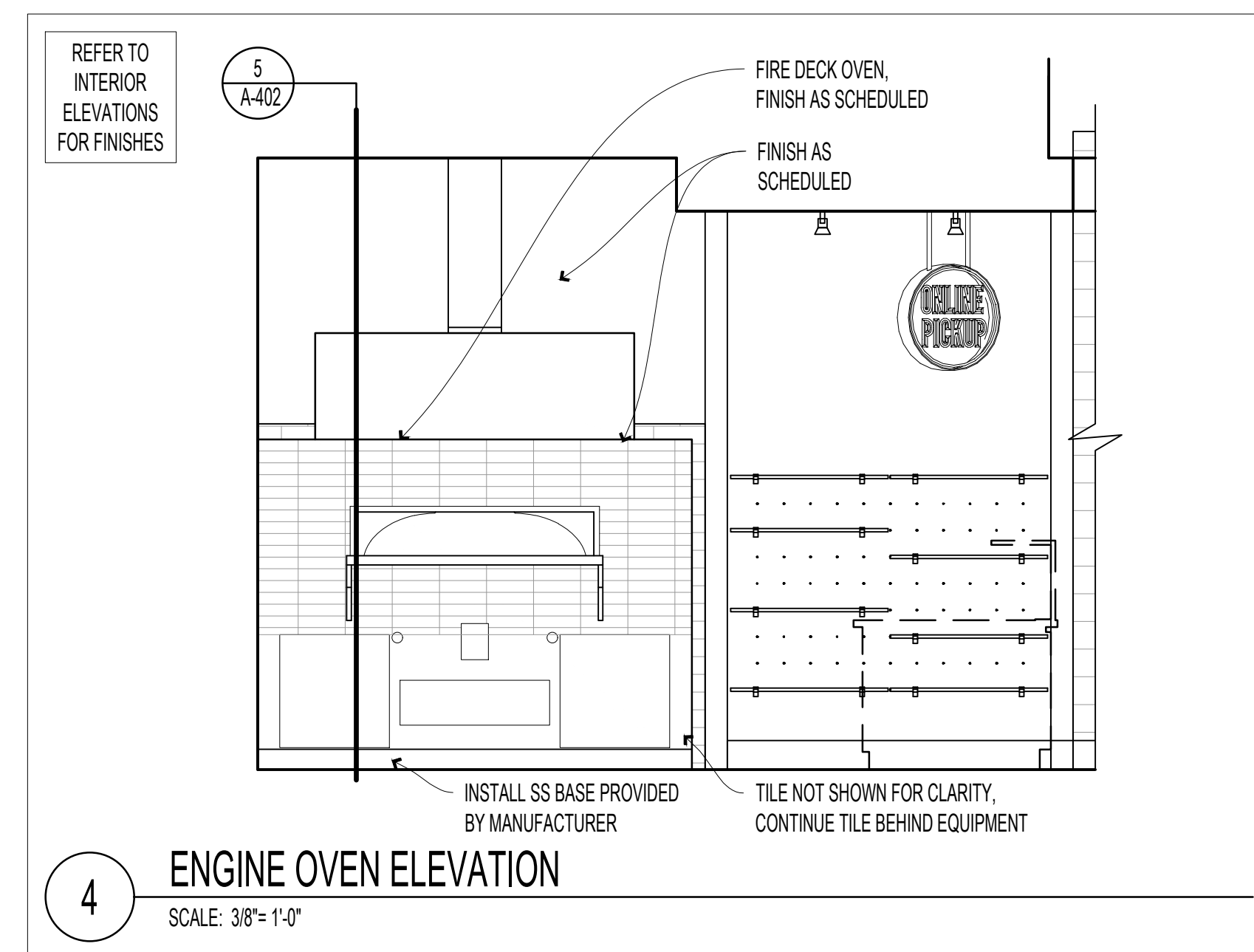


5 PIZZA OVEN SECTION
SCALE: 1/2"=1'-0"

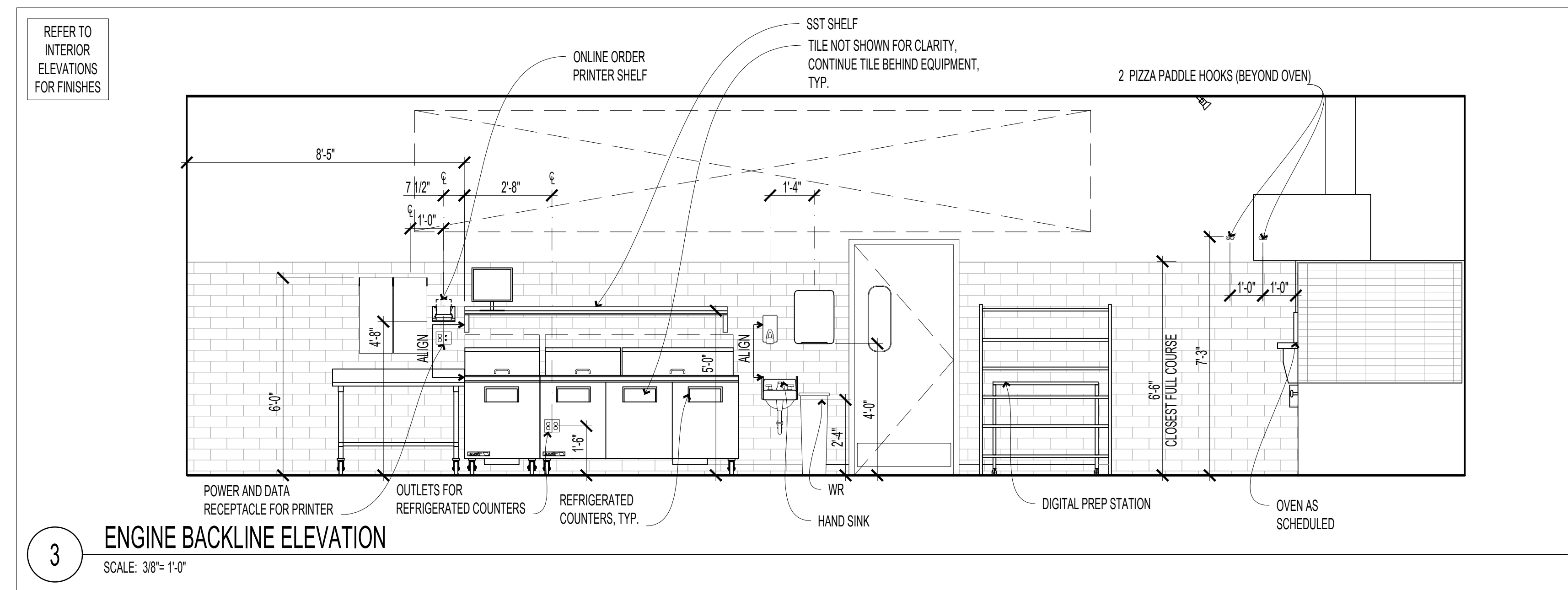
HOOD



6 DOUGH PRESS ELEVATION
SCALE: 3/8"=1'-0"



4 ENGINE OVEN ELEVATION
SCALE: 3/8"=1'-0"



3 ENGINE BACKLINE ELEVATION
SCALE: 3/8"=1'-0"

SEAL



10.15.21

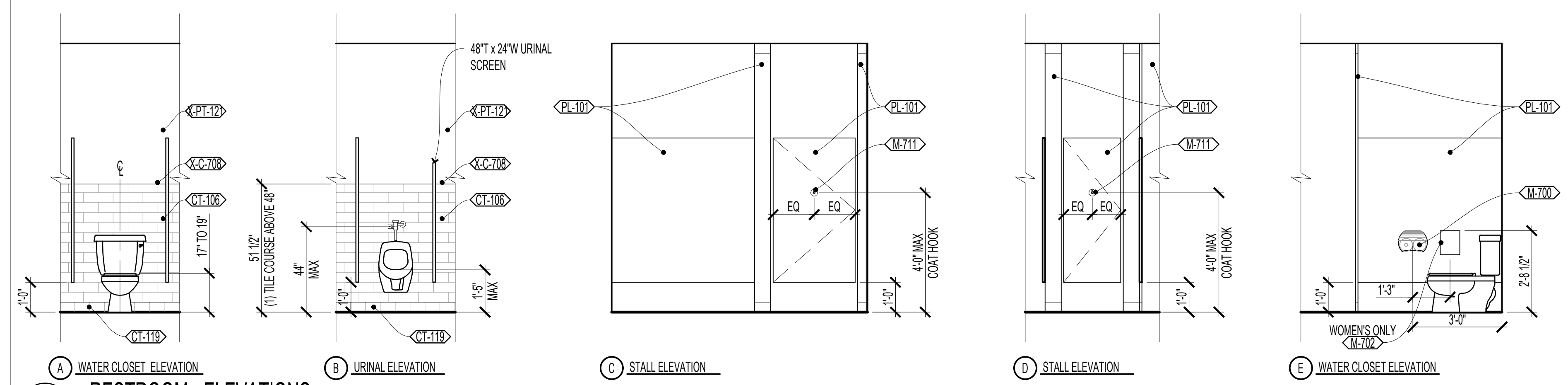
DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED PERMIT/BID SET DATE 10.15.21

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A-402
ENLARGED PLANS AND DETAILS - PIZZA ENGINE

ORIENTATION MAY VARY. SEE PLANS FOR EXACT LOCATION OF FIXTURES



9 RESTROOM - ELEVATIONS
SCALE: 3/8"=1'-0"

RESTROOM ACCESSORY SCHEDULE

RESTROOM						
QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	VENDOR	REMARKS
2	M-125	HANDS-FREE PAPER TOWEL DISPENSER	TORK / PEAKSERVE MINI CONTINUOUS HAND TOWEL DISPENSER BLACK	14"W X 4"D X 19"H	EDWARD DON	INSTALL PER INSTALLATION GUIDE, SEE ELEVATIONS FOR ADA MOUNTING HEIGHT
3	M-700	TOILET PAPER DISPENSER	TORK / 59TR	12.8"W X 5.6"D X 8.3"H	PFG	—
3	M-701	SEAT COVER DISPENSER	BOBRICK / B-221	15-3/4"W X 2"D X 11"H	RESTROOM REMODELS	—
2	M-702	SANITARY NAPKIN DISPOSAL	BOBRICK / B-270	7-1/2" W X 3-13/16"D X 10"H	RESTROOM REMODELS	INSTALL IN BOTH UNISEX RESTROOMS
2	M-703	BABY CHANGING STATION	FOUNDATIONS / 100-EH	34-1/4"W X 4"D X 15-3/8"H	RESTROOM REMODELS	PROTRUSION 17-1/2" WHEN OPEN
2	M-704	GRAB BAR - 42"	BOBRICK / B-5806X42	42"W	RESTROOM REMODELS	HORIZONTAL GRAB BAR
2	M-705	GRAB BAR - 36"	BOBRICK / B-5806X36	36"W	RESTROOM REMODELS	HORIZONTAL GRAB BAR
2	M-706	GRAB BAR - 18"	BOBRICK / B-5806X18	18"W	RESTROOM REMODELS	VERTICAL GRAB BAR
2	M-707	SOAP DISPENSER	TORK / 570028A	4.4"W X 4.5"D X 11.5"H	PFG	—
2	M-710	MIRROR	BOBRICK / B-165 1836	18"W X 12"D X 36"H	RESTROOM REMODELS	—
3	M-711	COAT HOOK	LIBERTY / 100170467	3" HEAVY DUTY	EDWARD DON	48" AFF ON INSIDE OF STALL DOOR OR RESTROOM DOOR IN SINGLE USER
2	M-714	LARGE TRASH SWING LID	RUBBERMAID / SWING LID ACC.	—	EDWARD DON	SLIM JIM SWING LID FOR RESTROOMS ONLY
2	M-501	TRASH CAN - 23 GA	RUBBERMAID / FC354060BLA	22"W X 11"D X 30"H	EDWARD DON	SLIM JIM - WASTE CONTAINER

FIXTURE LEGEND

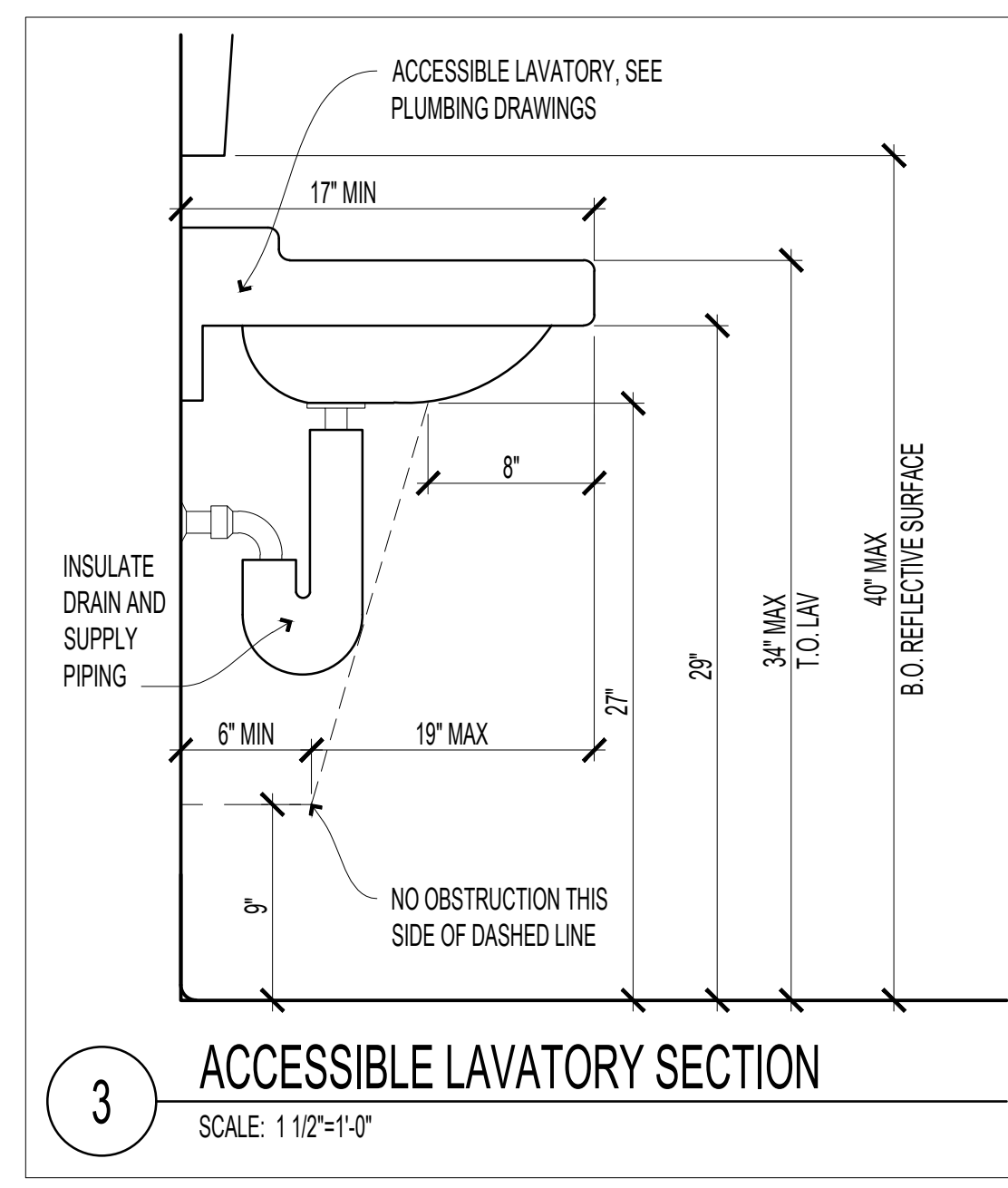
SEE ELECTRICAL FOR MORE INFORMATION

- L-101
- L-490 7'-0" AFF
- L-503 8'-0" AFF
- ⊙ E-513

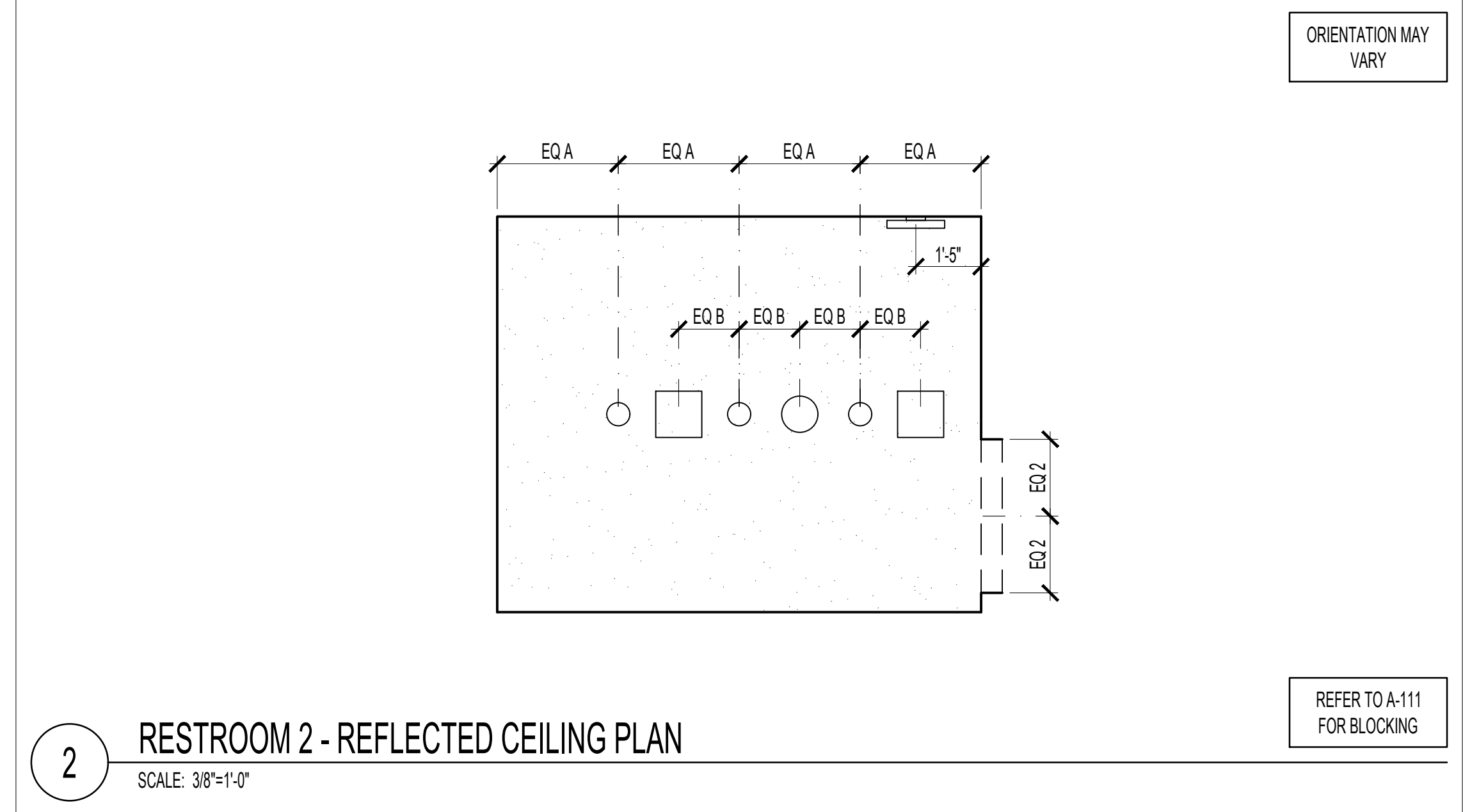
RESTROOM FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED

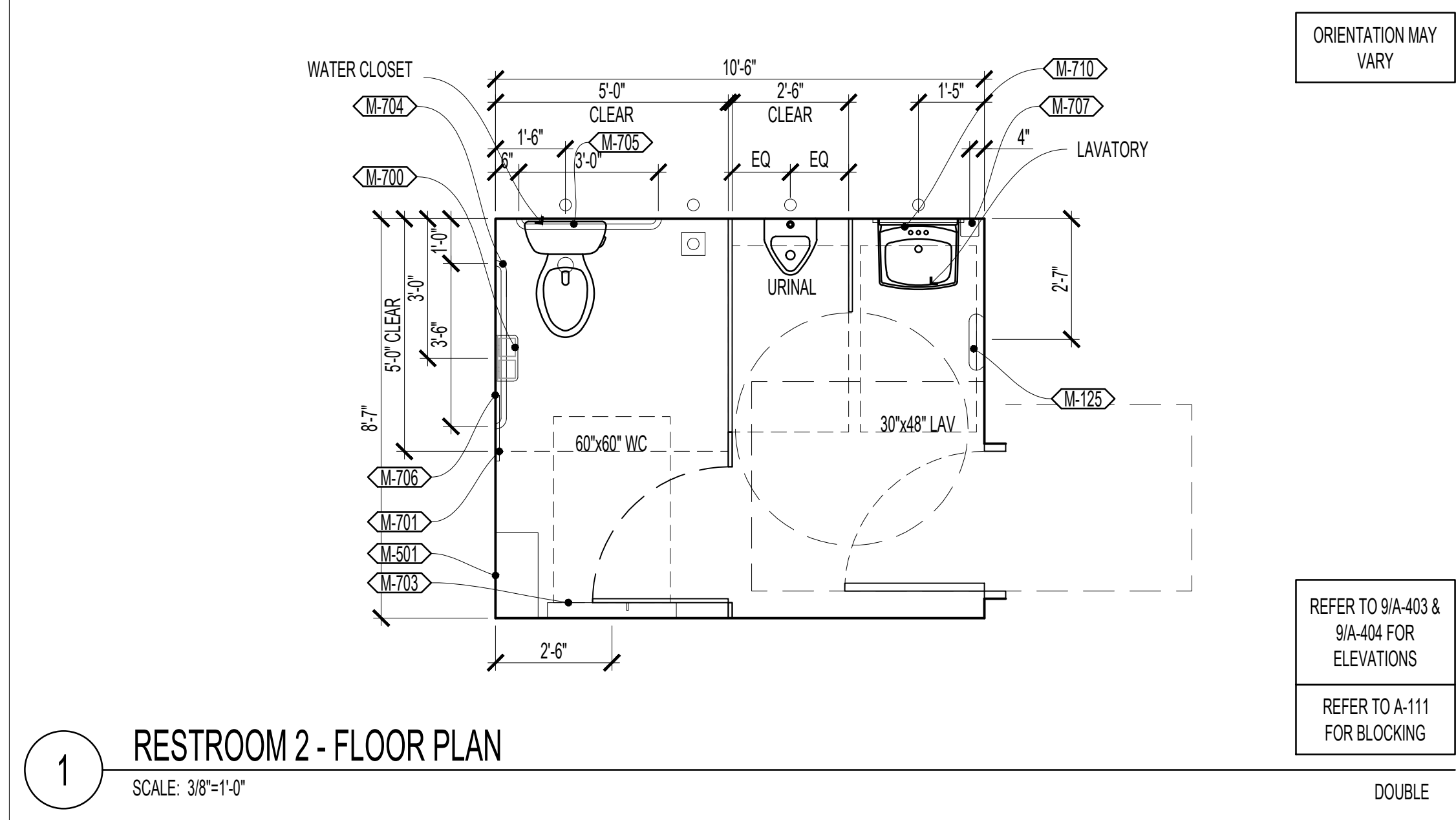
TAG	ITEM	MANUFACTURER/MODEL	FINISH	REMARKS
CEILING				
CL-100	2X4 ACOUSTIC CEILING TILE	USG / CHAMBRY CLIMA PLUS-208	WHITE; VINYL FACE	—
TILE				
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	0790 ARCTIC WHITE; MATTE	GROUT: MAPEI-47 CHARCOAL
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12C/B 0790	MATTE ARCTIC WHITE	GROUT: MAPEI-47 CHARCOAL
PLASTIC LAMINATE				
PL-101	PLASTIC LAMINATE - CANYON ZEPHYR	WILSONART / 4842-60	CANYON ZEPHYR; MATTE	—
PAINT				
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	CEILING BRIGHT WHITE; SEMI-GLOSS	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-121	PAINT - SANDBAR	SHERWIN WILLIAMS / SW7547	SANDBAR; SEMI-GLOSS	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE				
SC-100	SEALED CONCRETE	CONSOLIDECK	CONCRETE PROTECTOR; CLEAR	PENETRATING SEALER; USDA APPROVED



3 ACCESSIBLE LAVATORY SECTION
SCALE: 1 1/2"=1'-0"



2 RESTROOM 2 - REFLECTED CEILING PLAN
SCALE: 3/8"=1'-0"



1 RESTROOM 2 - FLOOR PLAN
SCALE: 3/8"=1'-0"

OWNER
MOD

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206.224.3335

CONSULTANT

9335 REGISTERED ARCHITECT
MARTIN LEE HILL
STATE OF WASHINGTON
10.15.21

DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

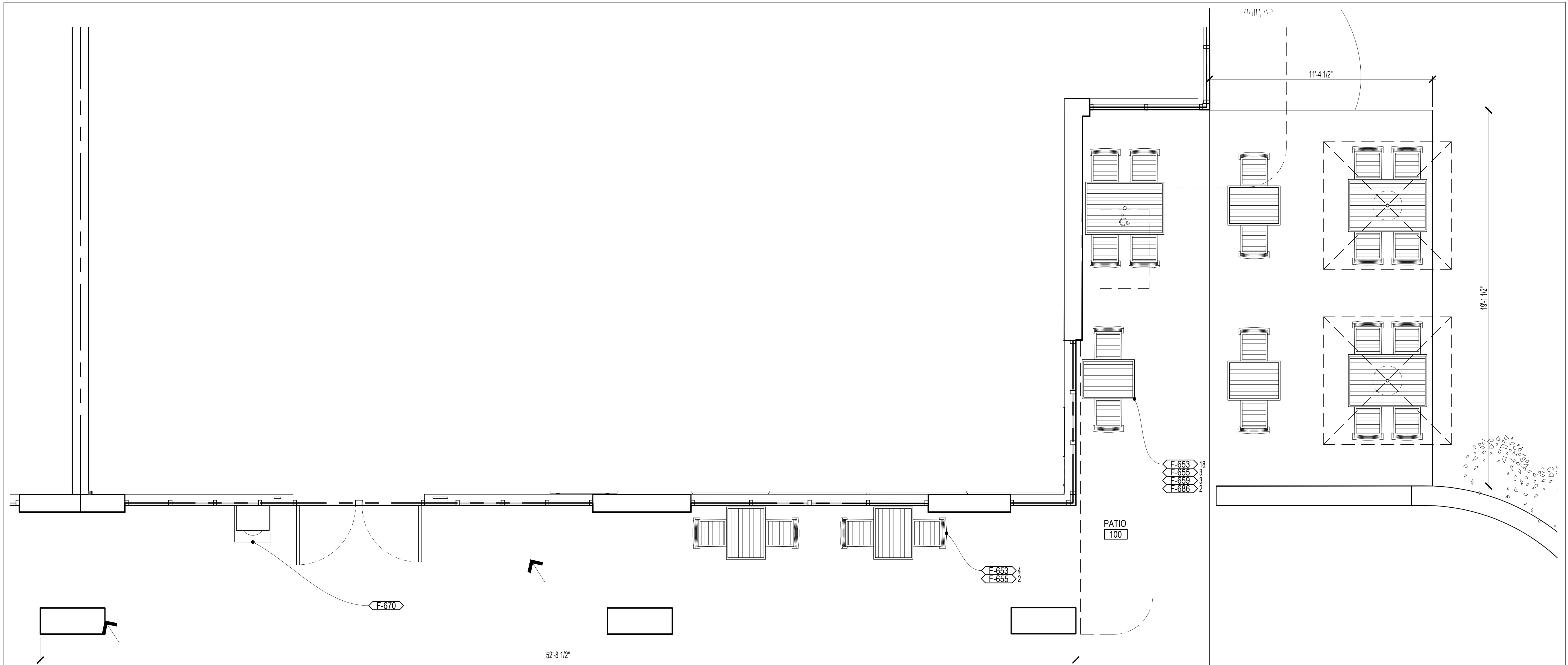
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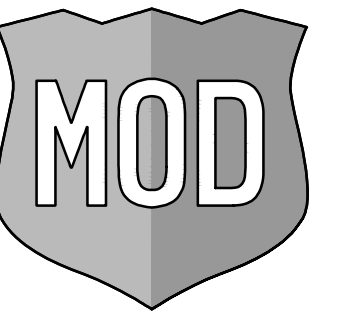
A-404
ENLARGED PLANS AND DETAILS - RESTROOMS

PATIO FURNITURE SCHEDULE

QUANTITY	TAG	ITEM	MANUFACTURER	SIZE	FINISH	VENDOR	REMARKS
	EXTERIOR 1(F) 600-699						
22	F-653	PATIO SIDE CHAIR	MIAMI SIDE CHAIR / CS16S-SBG	18.25"W X 23"D X 33.5"H	POWDERCOATED ALUMINUM FRAME, ALL WEATHER POLYWOOD SLATS - SILVER WITH GRAY	FOODSERVICE SEATING	32LB CAPACITY
5	F-655	PATIO 2-TOP TABLE	MIAMI DINING TABLES / DT516S-23Q	24"W X 32"D	POWDERCOATED ALUMINUM FRAME, ALL WEATHER POLYWOOD SLATS - SILVER WITH GRAY	FOODSERVICE SEATING	--
3	F-659	PATIO 4-TOP TABLE	MIAMI DINING TABLES / DT516S-48Q	48"W X 32"D	POWDERCOATED ALUMINUM FRAME, ALL WEATHER POLYWOOD SLATS - SILVER WITH GRAY	FOODSERVICE SEATING	EXTRA SLATS PROVIDED TO REMOVE UMBRELLA HOLE, ADA COMPLIANT
1	F-670	EXTERIOR TRASH CART	OCC OUTDOORS PRODUCTS / REC-MOD-36-TT	22.12"W X 22.12"D X 42.31"H, 36 GAL	POWDERCOAT BLACK HEAVY-DUTY STEEL, RECYCLED PLASTIC TOP WITH 14"DIA. OPENING, 36GAL POLYETHYLENE LINER	EDWARD DON	36GAL
2	F-685	PATIO UMBRELLA - MONTEREY FIBERGLASS	FRANKFORD UMBRELLAS / MONTEREY FIBERGLASS / 454FM-MS-MOD	78"W X 78"D X 99"H (7' CLEAR WHEN OPEN)	SUNBRELLA 4631-0000 BURGUNDY 90Z SOLUTION DYED MARINE GRADE ACRYLIC UMBRELLA FABRIC, MATTE SILVER FIBERGLASS/ALUMINUM FRAME	FRANKFORD UMBRELLAS	ORDER 10" EXTENSION "BAR HEIGHT" LOWER POLE FOR TEXAS MARKET
2	F-686	PATIO UMBRELLA BASE - 24G TABLES	FRANKFORD UMBRELLAS / 24G GALVANIZED STEEL PLATE	24" DIA X 5"H, 70LB	GALVANIZED	FRANKFORD UMBRELLAS	--

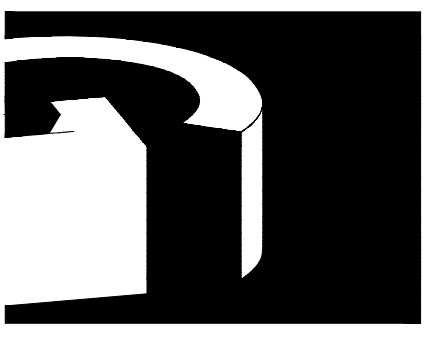


4 PATIO FLOOR/REFLECTED PLAN
SCALE: 3/8" = 1'-0"



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10.15.21

**DOWNTOWN
KIRKLAND**
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED DATE
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MOD CD TEMPLATE V2.1
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A-405
PATIO PLAN AND DETAILS

DOOR HARDWARE SCHEDULE

MANUFACTURERS LIST : BE = BEST ACCESS SYSTEMS; DE = DETEX; DM = DORMA USA; DS = DU SEALING; HG = HAGER; IV = IVES; LCN = LCN; NA = NATIONAL GUARD; PEM = PEMKO; SC = SCHLAGE; ST = STANLEY; TC = TRU-CLOSE; TR = TRIMCO; VD = VON DUPRIN

HW #1 - DOUBLE STOREFRONT ENTRY

QTY	DESCRIPTION	CATALOG#	FINISH	MANU
4EA	BUTT HINGE	5BB1 4 1/2" x 4 1/2"	652	IV
1EA	OFFSET DOOR PULL	8190-2	US32D	IV
1EA	EXIT DEVICE	99EO-LD US28	US28	VD
1EA	SURFACE CLOSER	4111	-	LCN
1EA	THRESHOLD	158-A	-	PEM

HW #2 - DOUBLE STOREFRONT ENTRY

QTY	DESCRIPTION	CATALOG#	FINISH	MANU
8EA	BUTT HINGE	5BB1 4 1/2" x 4 1/2"	652	IV
2EA	OFFSET DOOR PULL	8190-2	US32D	IV
2EA	EXIT DEVICE	99EO-LD US28	US28	VD
2EA	SURFACE CLOSER	4111	-	LCN
1EA	THRESHOLD	172-A	-	PEM
2EA	DUSTPROOF STRIKE	DP2	US26D	IV

HW #3 - KITCHEN - NOT USED

QTY	DESCRIPTION	CATALOG#	FINISH	MANU
**NOTE: HARDWARE LIMITED TO MANUFACTURER INSTALLED PACKAGE. ADD DOOR STOP AT FLOOR.				

HW #4 - SINGLE OCCUPANCY RESTROOM

QTY	DESCRIPTION	CATALOG#	FINISH	MANU
1EA	PUSH PLATE	8200, 3 1/2" X 15"	630	IV
1EA	PULL PLATE	8300, 3 1/2" X 15"	630	IV
1EA	PULL	8102, 3/4", ROUND 8"	630	IV
3EA	HINGES	B 1279, 4 1/2" X 4 1/2"	-	HG
1EA	FLOOR STOP	FS17	-	IV
1EA	CLOSER W/ HOLD OPEN	1460	-	LCN
1EA	10" KICKPLATE	8400, PUSH SIDE	US32D	IV

HW #6 - STORAGE

QTY	DESCRIPTION	CATALOG#	FINISH	MANU
1EA	LOCKSET	L9080L-80-03B	630	SC
3EA	HINGES	B 1279, 4 1/2" X 4 1/2"	-	HG
1EA	FLOOR STOP	FS17	-	IV
1EA	CLOSER W/ HOLD OPEN	1460	-	LCN

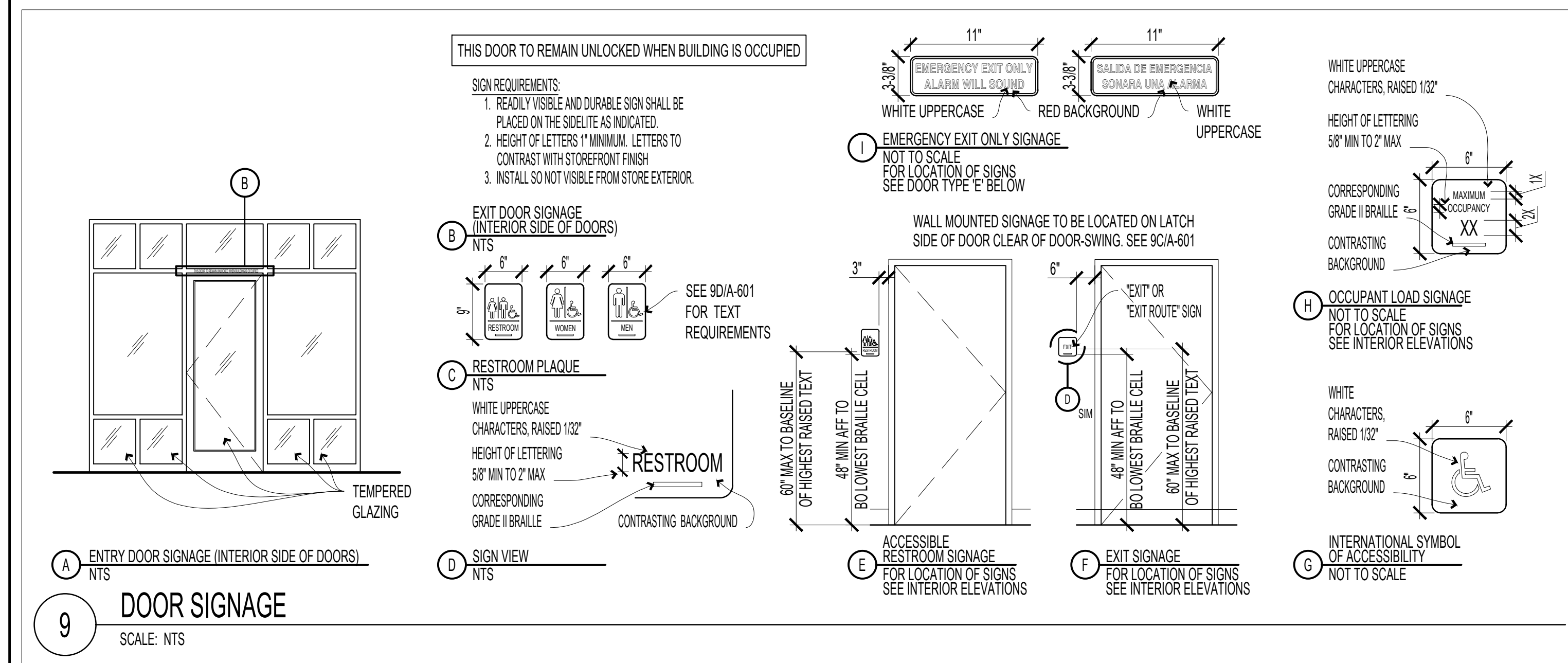
HW #7 - REAR EXIT - NOT USED

HW #8 - PATIO GATE - NOT USED

DOOR LEGEND

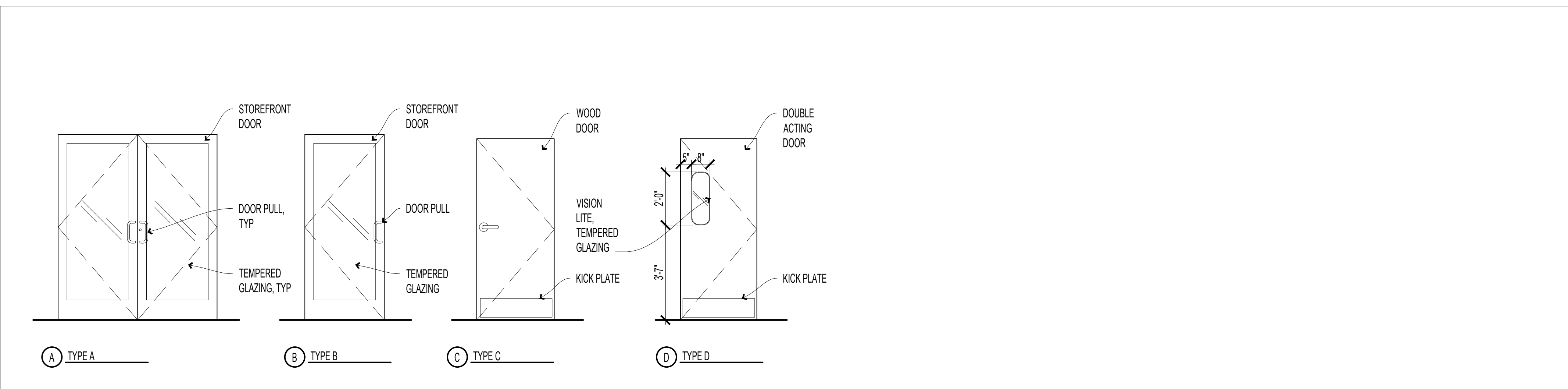
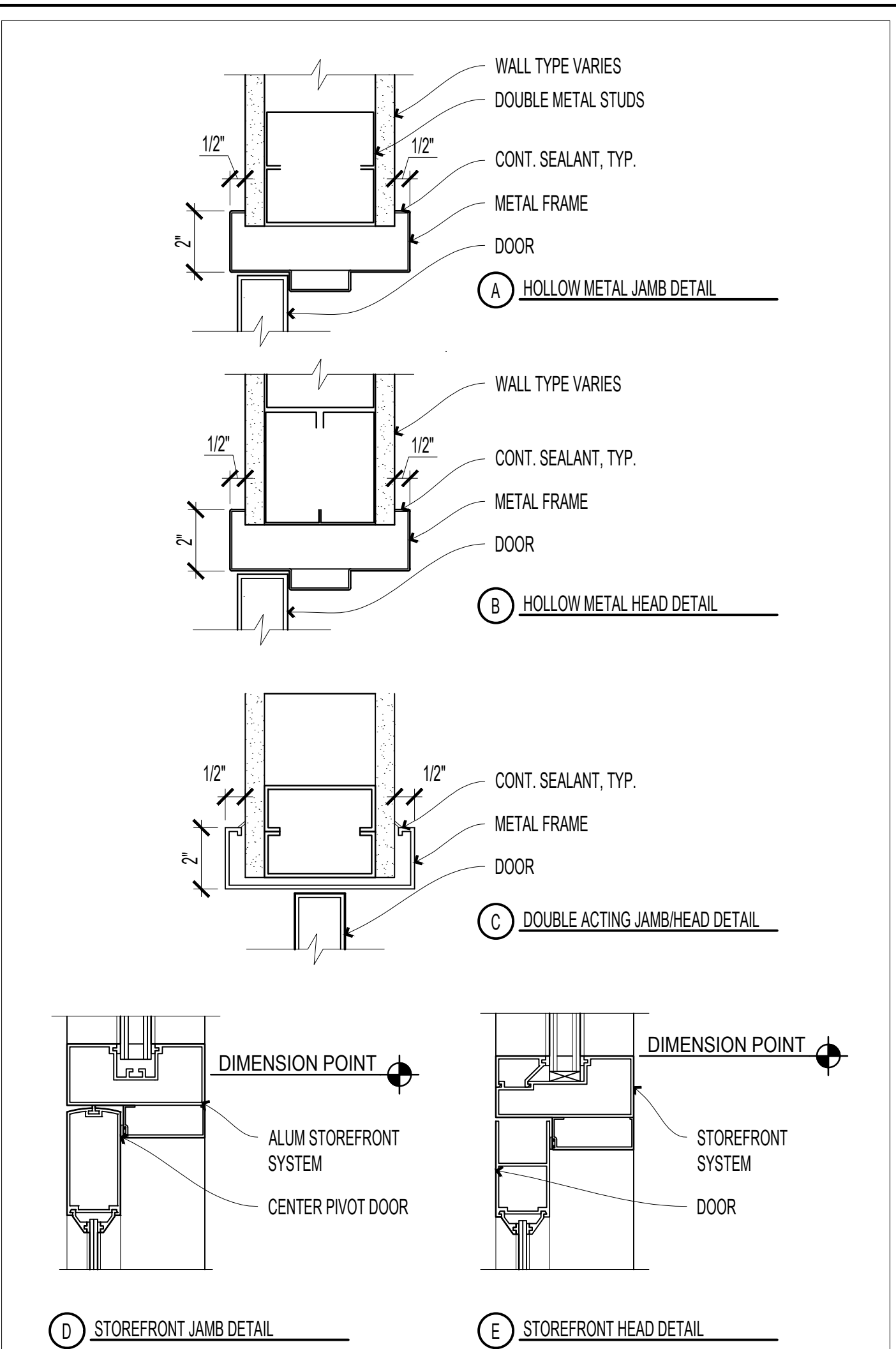
Two sheet A-601 provided please verify and remove if duplicate.

DOOR #	ROOM NAME	DOOR							FRAME				REMARKS	
		TYPE	HDWR	WIDTH	HEIGHT	THICK	MATL	FINISH	HEAD	JAMB	THRSLD	MATL		FINISH
100	PATIO GATE	2/A-405	8	2'-10"	3'-6"	1-1/2"	MTL	PT-103	---	2/A-405	---	MTL	PT-103	
101	ENTRY	EXIST	2	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXISTING; PROVIDE SIGNAGE ACROSS HEAD OF DOOR PER 98/A-601, PROVIDE NEW HARDWARE
104	REAR EXIT	EXIST	7	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXISTING; PROVIDE NEW HARDWARE
105	RESTROOM	C	4	3'-0"	7'-0"	1 3/4"	SOLID WOOD	WD-200	1B/A-601	1A/A-601	---	HM	REMARKS	UNDERCUT DOOR 1", FRAME FINISH TO MATCH ADJACENT PARTITION FINISH ON DINING ROOM SIDE
106	RESTROOM	C	4	3'-0"	7'-0"	1 3/4"	SOLID WOOD	WD-200	1B/A-601	1A/A-601	---	HM	REMARKS	UNDERCUT DOOR 1", FRAME FINISH TO MATCH ADJACENT PARTITION FINISH ON DINING ROOM SIDE
	REAR EXIT	E	7	3'-0"	7'-0"	1-3/4"	HM	REMARKS	1B/A-601	1A/A-601	14/A-803	HM	REMARKS	PAINT TO MATCH ADJACENT PARTITION FINISH ON INTERIOR, PAINT TO MATCH ADJACENT EXTERIOR FINISH
	ENTRY	A	---	(2)3'-0"	7'-0"	---	ALUM	GL	1E/A-601	1D/A-601	9/A-803	ALUM	ALUM	PROVIDE SIGNAGE ACROSS HEAD OF DOOR PER 9A/A-601

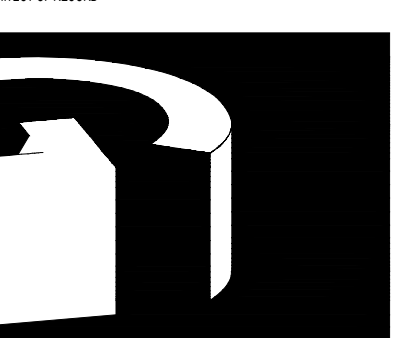


SHEET NOTES

- THIS PROJECT SHALL COMPLY WITH ALL FEDERAL AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES AND LOCAL ACCESS CODE REQUIREMENTS.
- THRESHOLDS SHALL BE NO HIGHER THAN 1/2" ABOVE THE FLOOR. EDGE TO BE BEVELED WITH A SLOPE NO GREATER THAN 1 IN 2.
- DOOR HARDWARE SHALL BE OF THE LEVER OR PUSH TYPE, MOUNTED 34" TO 44" ABOVE THE FLOOR AND BE OPERABLE WITH A MAXIMUM EFFORT OF 5 LBS. FOR INTERIOR DOORS. EXTERIOR DOOR - 5 LBS. POUNDS MAX. PRESSURE FIRE DOOR - 15 POUNDS MAX. PRESSURE
- ACCESSIBLE DOORS MUST BE MINIMUM 3'-0"W X 6'-8"H. MODIFY IF REQUIRED.
- PROVIDE 18" CLEAR SPACE AT STRIKE/PULL SIDE ON INTERIOR DOORS, AND 12" CLEAR AT STRIKE/PUSH SIDE OF DOORS W/ CLOSERS AND 24" CLEAR AT STRIKE/PULL SIDE ON EXTERIOR DOOR
- FLOOR SHALL BE LEVEL THROUGHOUT.
- CLOSERS: FURNISHED AND INSTALLED BY GENERAL CONTRACTOR. DOOR CLOSERS TO BE MOUNTED ON SWING SIDE OF DOORS. DOOR CLOSERS TO HAVE A MAXIMUM OPENING FORCE OF 5 LBS (INTERIOR HINGED DOORS). EXTERIOR DOOR - 5 LBS MAXIMUM. PRESSURE. FIRE DOOR - 15 LBS MAXIMUM. PRESSURE THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES MINIMUM, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH SHOULD BE 5 SECONDS MINIMUM.
- AOR/OWNER SHALL VERIFY WITH SUPPLIER THAT ALL HARDWARE MEETS ADAAG REQUIREMENTS.
- ALL DOOR HINGES TO BE STEEL BALL BEARING, FULL MORTISE TYPE.
- ALL METAL DOOR FRAMES TO BE PROVIDED WITH SILENCERS.
- ALL INTERIOR DOORS TO BE PROVIDED WITH COMMERCIAL GRADE WALL OR FLOOR STOPS.
- GENERAL CONTRACTOR SHALL ENSURE ALL EXISTING DOORS TO REMAIN TO BE IN GOOD OPERATING ORDER AND TO MEET ALL LOCAL BUILDING CODES AND ADAAG REQUIREMENTS. GENERAL CONTRACTOR TO RESTORE DOORS TO "LIKE NEW" CONDITION. AND INSTALL NEW HARDWARE PER SCHEDULE.



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MOD CD TEMPLATE V2.1

PERMIT SET Value

A-601
DOOR LEGEND AND DETAILS

Value Value

FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED						
TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
BASE						
BA-102	RUBBER COVE BASE - 4"	ARMSTRONG / V4161	4TH	*Graphite Gray LRV: 7 Paint Match - SW7022	CONTRACTOR	EMPLOYEE SIDE OF CASEWORK; CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-104	FORBO WALL BASE - 6"	FORBO / WALL BASE / C35 LAVA	6TH	C35 LAVA	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BRICK						
X-BR-303	FAUX BRICK PANEL - COUNTRY WHITE	CONSTRUCTION SPECIALTIES / ARTERRA COUNTRY BRICK WHITE	51-916"W X 34-518"H X 1-316"THK	WHITE	CONTRACTOR	---
CEILINGS						
CL-100	Z4X ACOUSTIC CEILING PANEL	OWNES CORNING	2'W X 4'L X 2"THK	*White; Vinyl Face LRV: 75	CONTRACTOR	2" THICK
TILE						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-11/4"W X 12-3/4"L X 5/16"THK	*0790 Arctic White; Matte LRV: 83	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Oven tile application (high-heat surfaces) *SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-118	4X12 SEMI-GLOSS COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0190	4 1/4"W X 12 7/8"L X 5/16"THK	SEMI-GLOSS ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0190	4 1/4"W X 12 7/8"L X 5/16"THK	*Matte Arctic White LRV: 83	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Oven tile application (high-heat surfaces) *SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-204	SLIDE 4X12 WALL TILE - OCEAN	EUROWEST / SLIDE OCEAN 75486	4"W X 12"L X 5/16"THK	OCEAN; GLOSS	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL; STRAIGHT STACK
CORRUGATED METAL						
X-CM-800	1/4" CORRUGATED METAL - DARK BRONZE	BRIDGER STEEL / CORRUGATED METAL SIDING PANEL SYSTEM	1/4" CORRUGATED; 24 GAUGE	DARK BRONZE	CONTRACTOR	INSTALL WITH EXPOSED FASTENERS; USE MATCHING TRIM PROFILES FOR CORNERS, BASE AND WAINSCOT TRIM
COUNTER SURFACE						
CS-102	QUARTZ - LORRAINE	WILSONART / Q1012	2CM; 55" X 120" SLAB	LORRAINE	CASEWORK	---
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2"; 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	---
FABRIC						
FA-112	VINYL - DAFFODIL	WOLF GORDON / GOH31925153	54" WIDE	DAFFODIL - EAST VILLAGE (EAV 8449)	CASEWORK	---
FIBER REINFORCED PLASTIC						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4"W X 8' OR 10'L X 3/32"THK	*White; Pebbled Surface LRV: 83	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4"W X 8' OR 10'L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
HOT ROLLED STEEL						
HS-103	HOT ROLLED STEEL - POWDERCOAT	---	---	*Prismatic Powders / PPP-4958 / Flatop Black LRV: 9 Paint Match - SW7645	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
MELAMINE						
ML-100	MELAMINE - WHITE	MEDEX	---	WHITE	CASEWORK	---
ML-101	MELAMINE - BLACK	MEDEX	---	BLACK	CASEWORK	---
PLASTIC LAMINATE						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	---	BLACK; MATTE	CASEWORK	---
PL-106	PLASTIC LAMINATE - WHITE	WILSONART / 1573-60	---	FROSTY WHITE; MATTE	CASEWORK	---
PAINT						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	---	*Ceiling Bright White; Semi-gloss LRV: 85	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOUJI WHITE	SHERWIN WILLIAMS / SW7042	---	SHOUJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-121	PAINT - SANDBAR	SHERWIN WILLIAMS / SW7547	---	SANDBAR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-124	PAINT - BRAINSTORM BRONZE	SHERWIN WILLIAMS / SW7033	---	BRAINSTORM BRONZE; SW7033	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE						
SC-100	SEALED CONCRETE	CONSOLDECK	---	CONCRETE PROTECTOR; CLEAR	CONTRACTOR	PENETRATING SEALER; USDA APPROVED
STAINLESS STEEL						
ST-100	STAINLESS STEEL PANEL	---	---	#4 FINISH	CONTRACTOR	---
WALLCOVERING						
WC-108	WALL COVERING - FOUNDATION - ONYX	Wolf Gordon / Foundation / FDN 5406 / GOH32134203	52"W	CONCRETE MIX	CONTRACTOR	---
WOOD						
WD-121	ENGINEERED VINYL PLANK - WASHINGTON OAK	CORETEC / VV035-00915	8.98" X 72.05" X 8MM	WASHINGTON OAK	CASEWORK	---
WD-123	LOST COAST REDWOOD PANELING - NYLON BRUSHED	TERRAMA / LOST COAST REDWOOD 7" PANELING - WEATHERED; NYLON BRUSHED	7"W X 2 TO 5' RANDOM L X 1/2"THK	UNFINISHED NYLON BRUSHED WEATHERED FACE	CONTRACTOR	---
WD-200	SOLID MAPLE	---	---	CLEAR COAT; MATTE	CONTRACTOR	RESTROOM DOORS
WIRE MESH						
WM-103	WIRE METAL MESH - 2" SQUARE	MCNICHOLS / 3820320048	2" SQUARE WELDED 230T WIRE; 48"X36"	COLD ROLLED STEEL	MCNICHOLS	---

INTERIOR SIGNAGE SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED						
QUANTITY	TAG	ITEM	MANUFACTURER/MODEL/SIZE	FINISH	VENDOR	REMARKS
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	58-12"W X 1'D X 79-3/8"H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR COMES WITH 6" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED; IT CAN BE INSTALLED WITHOUT FRAME BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-12"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2"W X 34"D X 47-1/2"H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR DIRECT PRINTED STORE LOGO ON FACE. INSTALL WITH Z-CLIPS. PROVIDED
1	G-141-TM	ORDER HERE SIGN - TOP	WALTON SIGNAGE / MOD-OH-TM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	WALTON SIGNAGE PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
1	G-144	OPEN SIGN	CUSTOM	22" DIA X 1-7/8"D (PIPE SUPPORT LENGTH - 36")	ALUMINUM; FAUX NEON LED	INTERIOR SIGNAGE VENDOR PLUG INTO SOFFIT RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
5	G-300	ACCESSIBLE PLACARD	CUSTOM	3"W X 3"H	ALUMINUM	EDWARD DON SEE 90A-801; INSTALLED BY CONTRACTOR

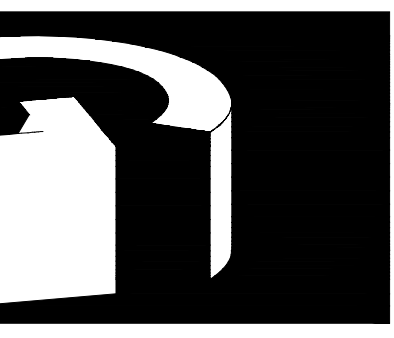
SHEET NOTES

- REFER TO A-131 FOR FLOOR & BASE FINISHES.
- REFER TO A-131 FOR TRIM FINISHES.



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SCALE

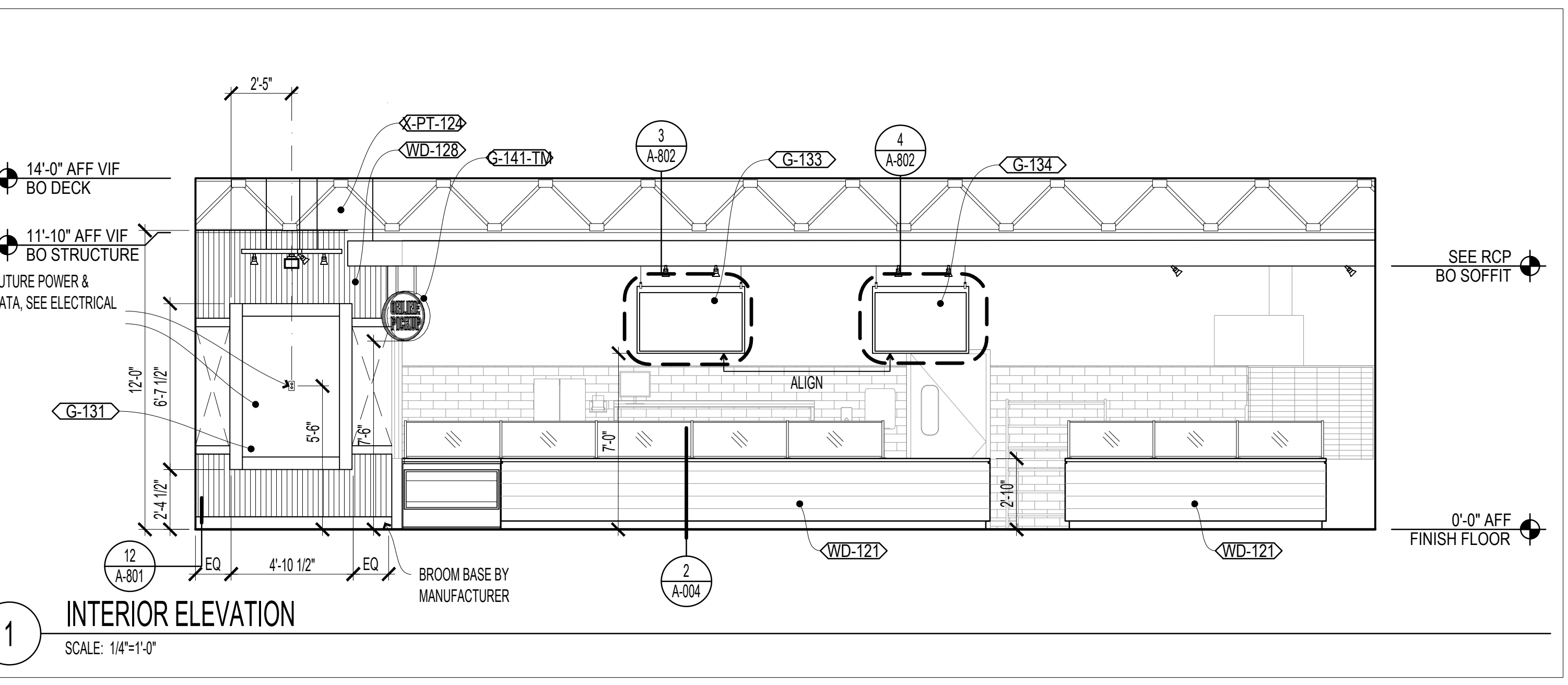
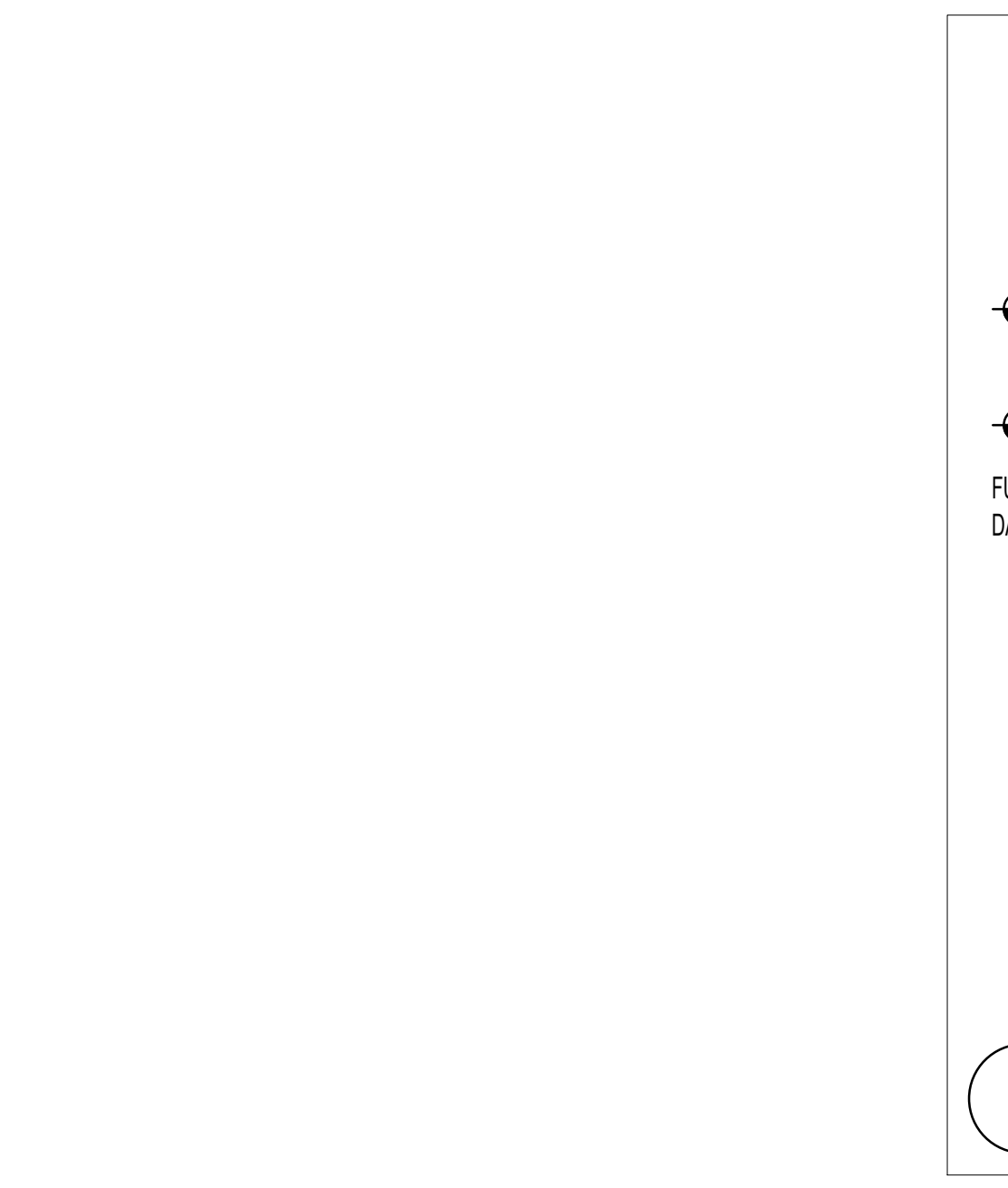
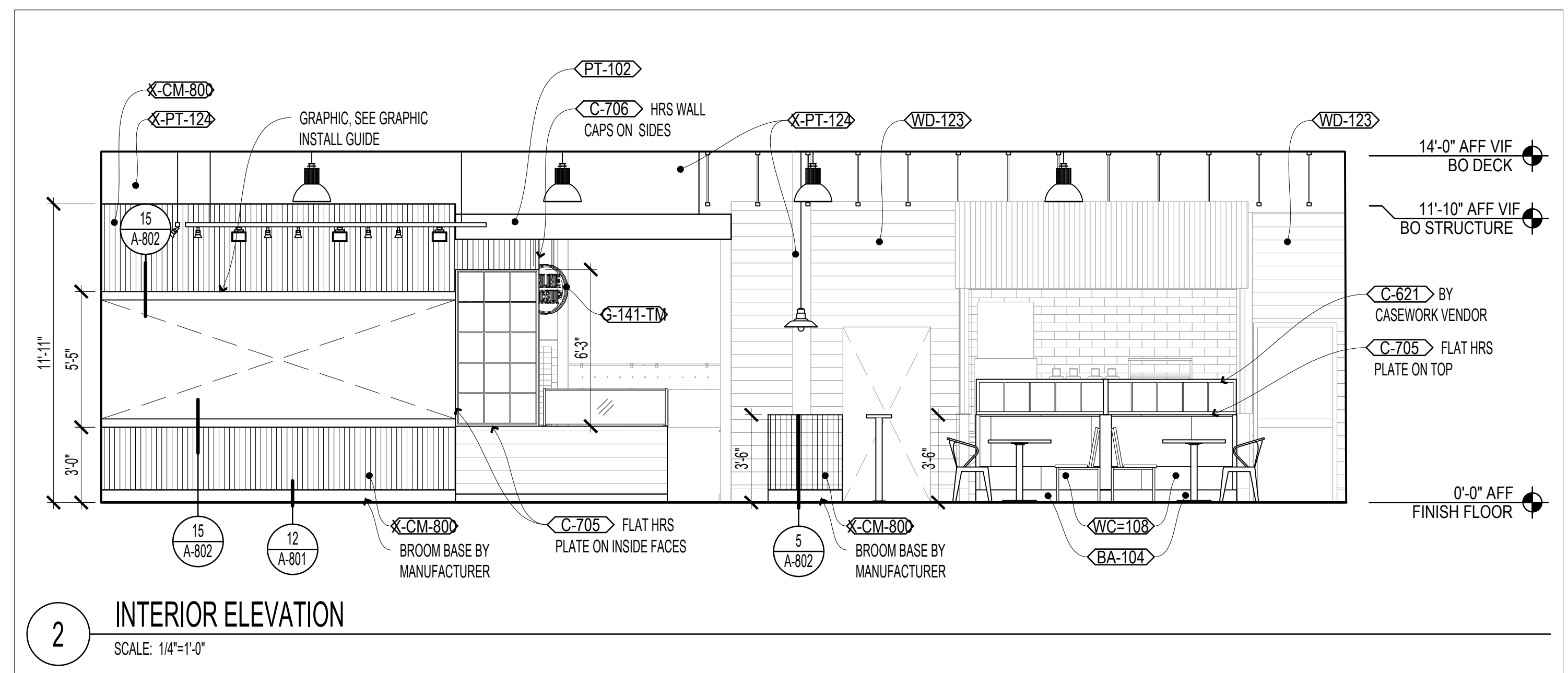
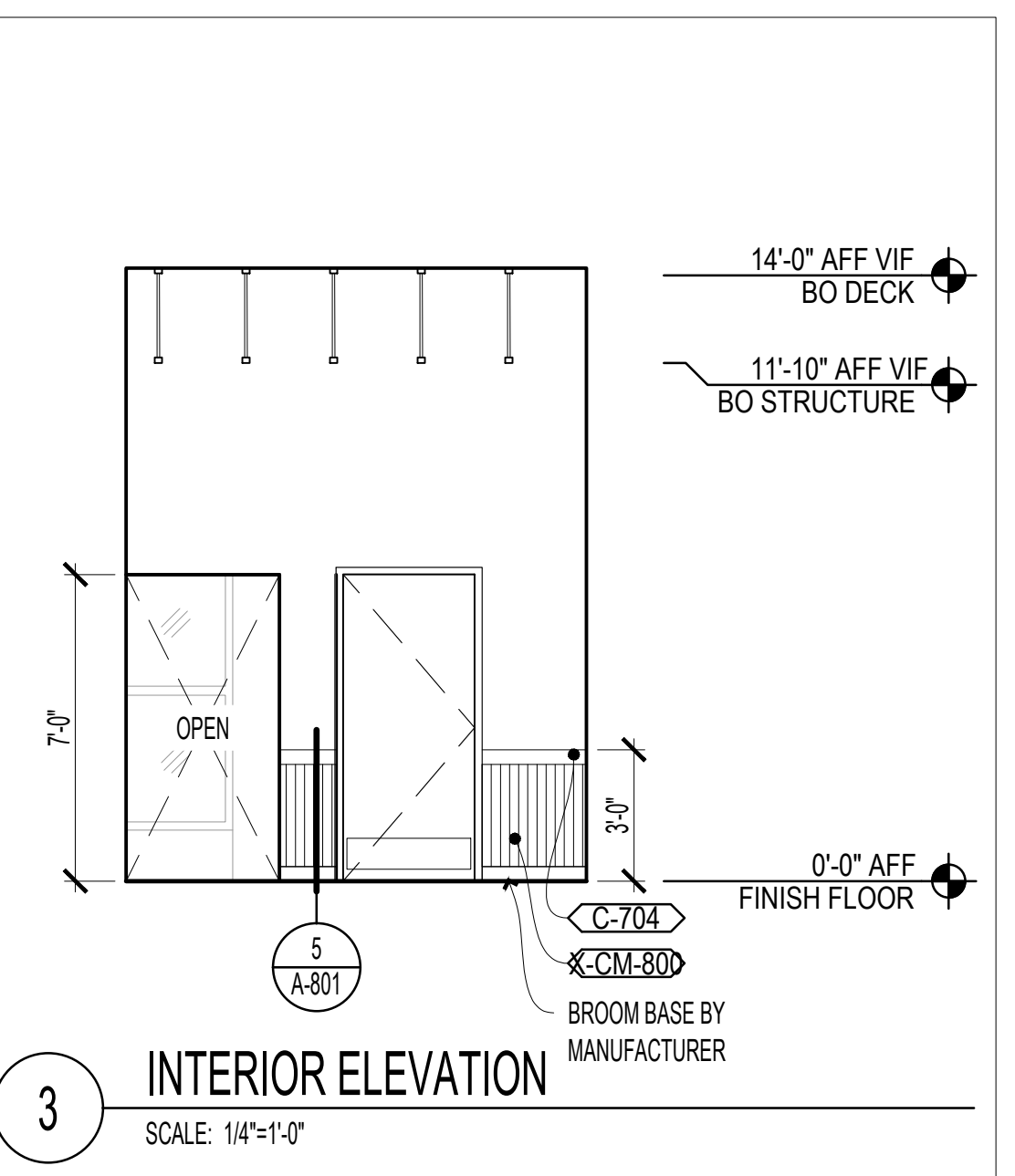


DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1
PERMIT SET 10.15.21

A-701
INTERIOR ELEVATIONS
DINING



FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED						
TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
BASE						
BA-102	RUBBER COVE BASE - 4"	ARMSTRONG / V4161	4TH	*Graphite Gray LRV: 7 Paint Match - SW7022	CONTRACTOR	EMPLOYEE SIDE OF CASEWORK; CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-104	FORBO WALL BASE - 6"	FORBO / WALL BASE / C35 LAVA	6TH	C35 LAVA	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BRICK						
X-BR-303	FAUX BRICK PANEL - COUNTRY WHITE	CONSTRUCTION SPECIALTIES / ARTERRA COUNTRY BRICK WHITE	51-916"W X 34-58"H X 1-316"THK	WHITE	CONTRACTOR	---
CEILINGS						
CL-100	Z4X ACOUSTIC CEILING PANEL	OWNERS CORNING	2"W X 4"L X 2"THK	*White; Vinyl Face LRV: 75	CONTRACTOR	2" THICK
TILE						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-14"W X 12-34"L X 516"THK	*0790 Arctic White; Matte LRV: 83	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Oven tile application (high-heat surfaces) *SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-118	4X12 SEMI-GLOSS COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0190	4 14"W X 12 7/8"L X 516"THK	SEMI-GLOSS ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0190	4 14"W X 12 7/8"L X 516"THK	*Matte Arctic White LRV: 83	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Oven tile application (high-heat surfaces) *SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-204	SLIDE 4X12 WALL TILE - OCEAN	EUROWEST / SLIDE OCEAN 754866	4"W X 12"L X 516"THK	OCEAN; GLOSS	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL; STRAIGHT STACK
CORRUGATED METAL						
X-CM-800	1/4" CORRUGATED METAL - DARK BRONZE	BRIDGER STEEL / CORRUGATED METAL SIDING PANEL SYSTEM	1/4" CORRUGATED; 24 GAUGE	DARK BRONZE	CONTRACTOR	INSTALL WITH EXPOSED FASTENERS; USE MATCHING TRIM PROFILES FOR CORNERS, BASE AND WAINSCOT TRIM
COUNTER SURFACE						
CS-102	QUARTZ - LORRAINE	WILSONART / Q1012	2CM, 55" X 120" SLAB	LORRAINE	CASEWORK	---
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2"; 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	---
FABRIC						
FA-112	VINYL - DAFFODIL	WOLF GORDON / G0H31925153	54" WIDE	DAFFODIL - EAST VILLAGE (EAV 8449)	CASEWORK	---
FIBER REINFORCED PLASTIC						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4"W X 8" OR 10"L X 3/32"THK	*White; Pebbled Surface LRV: 83	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4"W X 8" OR 10"L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
HOT ROLLED STEEL						
HS-103	HOT ROLLED STEEL - POWDERCOAT	---	---	*Prismatic Powders / PPP-4958 / Flatop Black LRV: 9 Paint Match - SW7645	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
MELAMINE						
ML-100	MELAMINE - WHITE	MEDEX	---	WHITE	CASEWORK	---
ML-101	MELAMINE - BLACK	MEDEX	---	BLACK	CASEWORK	---
PLASTIC LAMINATE						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	---	BLACK; MATTE	CASEWORK	---
PL-106	PLASTIC LAMINATE - WHITE	WILSONART / 1573-60	---	FROSTY WHITE; MATTE	CASEWORK	---
PAINT						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	---	*Ceiling Bright White; Semi-gloss LRV: 85	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOUJI WHITE	SHERWIN WILLIAMS / SW7042	---	SHOUJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-121	PAINT - SANDBAR	SHERWIN WILLIAMS / SW7547	---	SANDBAR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-124	PAINT - BRAINSTORM BRONZE	SHERWIN WILLIAMS / SW7033	---	BRAINSTORM BRONZE; SW7033	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE						
SC-100	SEALED CONCRETE	CONSOLDECK	---	CONCRETE PROTECTOR; CLEAR	CONTRACTOR	PENETRATING SEALER; USDA APPROVED
STAINLESS STEEL						
ST-100	STAINLESS STEEL PANEL	---	---	#4 FINISH	CONTRACTOR	---
WALLCOVERING						
WC-108	WALL COVERING - FOUNDATION - ONYX	Wolf Gordon / Foundation / FDN 5406 / G0H32134203	52"W	CONCRETE MIX	CONTRACTOR	---
WOOD						
WD-121	ENGINEERED VINYL PLANK - WASHINGTON OAK	CORETEC / VV035-00915	8.98" X 72.05" X 8MM	WASHINGTON OAK	CASEWORK	---
WD-123	LOST COAST REDWOOD PANELING - NYLON BRUSHED	TERRAMAU / LOST COAST REDWOOD 7" PANELING - WEATHERED; NYLON BRUSHED	7"W X 2 TO 5' RANDOM L X 1/2"THK	UNFINISHED NYLON BRUSHED WEATHERED FACE	CONTRACTOR	---
WD-200	SOLID MAPLE	---	---	CLEAR COAT; MATTE	CONTRACTOR	RESTROOM DOORS
WIRE MESH						
WM-103	WIRE METAL MESH - 2" SQUARE	MCNICHOLS / 3620320048	2" SQUARE WELDED 230Z WIRE; 48"X36"	COLD ROLLED STEEL	MCNICHOLS	---

INTERIOR SIGNAGE SCHEDULE

OWNER'S/VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED							
QUANTITY	TAG	ITEM	MANUFACTURER/MODEL/SIZE	FINISH	VENDOR	REMARKS	
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	58-12"W X 1'D X 79-3/8"H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	COMES WITH 6" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED; IT CAN BE INSTALLED WITHOUT FRAME
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-12"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2"W X 34"D X 47-1/2"H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	DIRECT PRINTED STORE LOGO ON FACE; INSTALL WITH Z-CLIPS. PROVIDED
1	G-141-TM	ORDER HERE SIGN - TOP	WALTON SIGNAGE / MOD-OH-TM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	WALTON SIGNAGE	PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
1	G-144	OPEN SIGN	CUSTOM	22" DIA X 1-7/8"D (PIPE SUPPORT LENGTH - 36")	ALUMINUM; FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO SOFFIT RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
5	G-300	ACCESSIBLE PLACARD	CUSTOM	3"W X 3"H	ALUMINUM	EDWARD DON	SEE 91A-601; INSTALLED BY CONTRACTOR

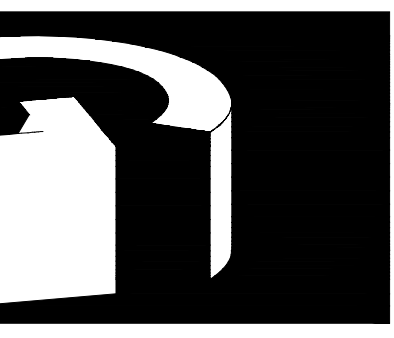
SHEET NOTES

- REFER TO A-131 FOR FLOOR & BASE FINISHES.
- REFER TO A-131 FOR TRIM FINISHES.



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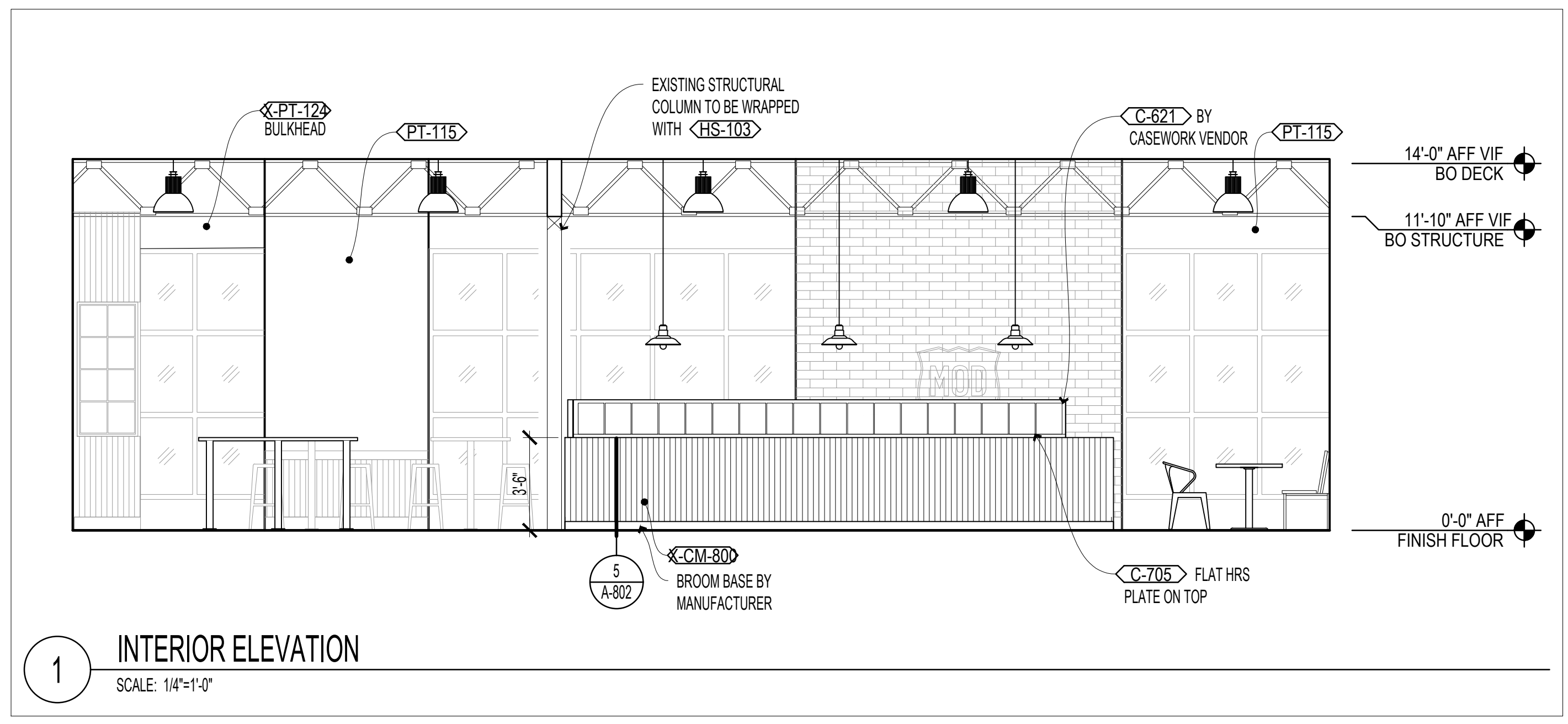
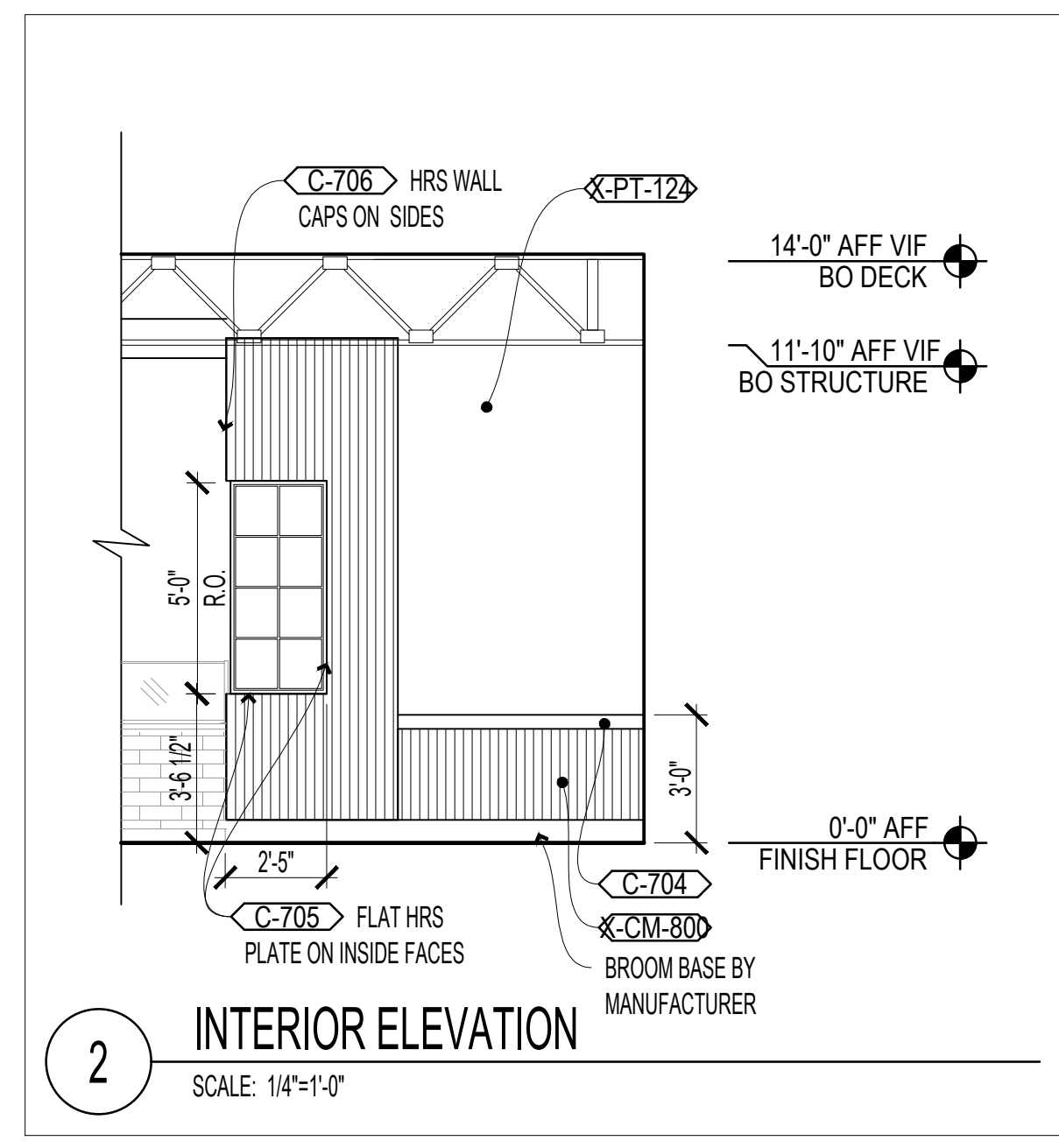
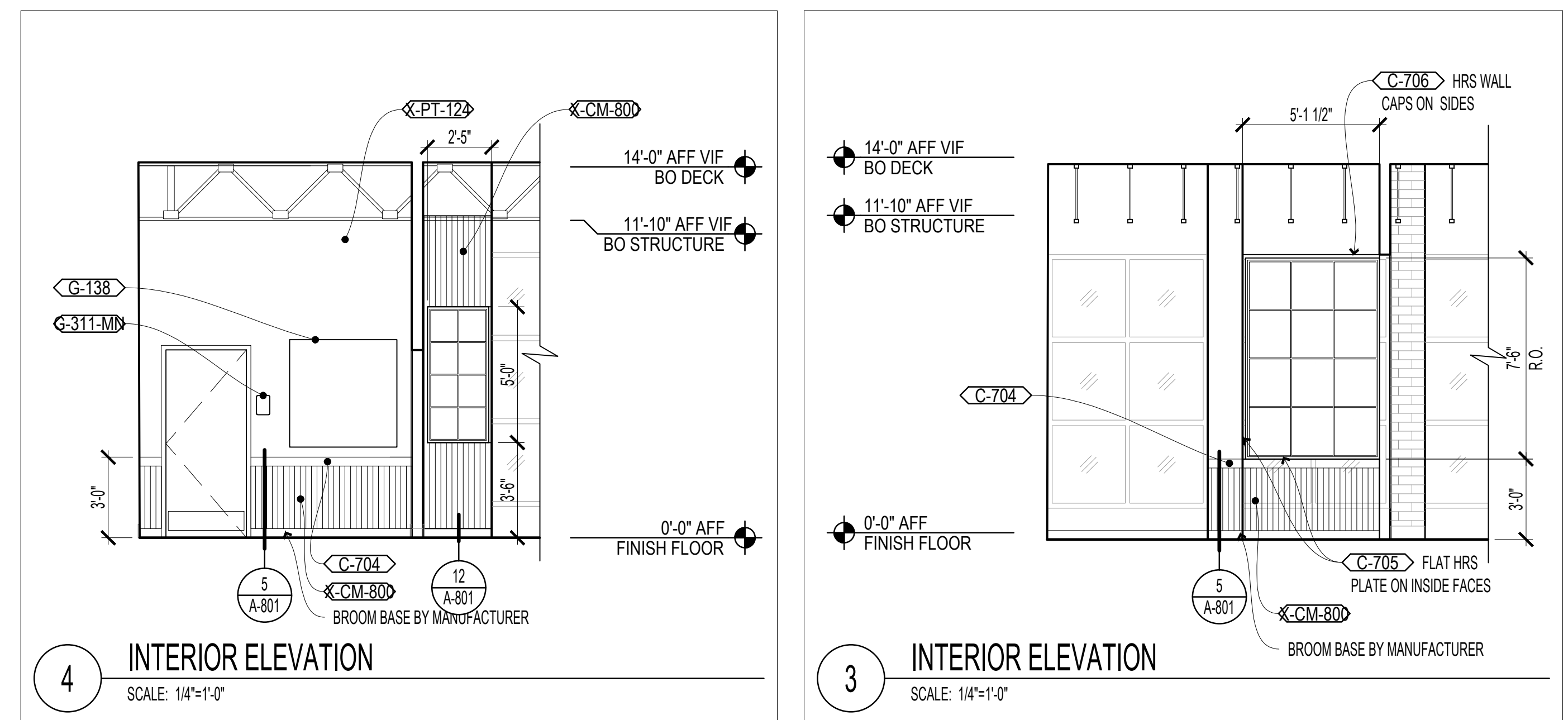
DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET 10.15.21

A-702
INTERIOR ELEVATIONS
DINING



FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED						
TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
BASE						
BA-102	RUBBER COVE BASE - 4"	ARMSTRONG / V4161	4TH	*Graphite Gray LRV: 7 Paint Match - SW762	CONTRACTOR	EMPLOYEE SIDE OF CASEWORK; CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-104	FORBO WALL BASE - 6"	FORBO / WALL BASE / C35 LAVA	6TH	C35 LAVA	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BRICK						
X-BR-303	FAUX BRICK PANEL - COUNTRY WHITE	CONSTRUCTION SPECIALTIES / ARTERRA COUNTRY BRICK WHITE	51-916"W X 34-58"H X 1-316"THK	WHITE	CONTRACTOR	---
CEILINGS						
CL-100	ZX4 ACOUSTIC CEILING PANEL	OWNES CORNING	2'W X 4'L X 2"THK	*White; Vinyl Face LRV: 76	CONTRACTOR	2" THICK
TILE						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-14"W X 12-34"L X 516"THK	*0790 Arctic White; Matte LRV: 83	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Oven tile application (high-heat surfaces) *SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-118	4X12 SEMI-GLOSS COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0190	4 14"W X 12 7/8"L X 516"THK	SEMI-GLOSS ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0190	4 14"W X 12 7/8"L X 516"THK	*Matte Arctic White LRV: 83	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Oven tile application (high-heat surfaces) *SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-204	SLIDE 4X12 WALL TILE - OCEAN	EUROWEST / SLIDE OCEAN 75486	4"W X 12"L X 516"THK	OCEAN; GLOSS	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL; STRAIGHT STACK
CORRUGATED METAL						
X-CM-800	1/4" CORRUGATED METAL - DARK BRONZE	BRIDGER STEEL / CORRUGATED METAL SIDING PANEL SYSTEM	1/4" CORRUGATED; 24 GAUGE	DARK BRONZE	CONTRACTOR	INSTALL WITH EXPOSED FASTENERS; USE MATCHING TRIM PROFILES FOR CORNERS, BASE AND WAINSCOT TRIM
COUNTER SURFACE						
CS-102	QUARTZ - LORRAINE	WILSONART / Q1012	2CM; 55" X 120" SLAB	LORRAINE	CASEWORK	---
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2"; 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	---
FABRIC						
FA-112	VINYL - DAFFODIL	WOLF GORDON / G0H31925153	54" WIDE	DAFFODIL - EAST VILLAGE (EAV 8449)	CASEWORK	---
FIBER REINFORCED PLASTIC						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4"W X 8' OR 10'L X 3/32"THK	*White; Pebbled Surface LRV: 83	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4"W X 8' OR 10'L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
HOT ROLLED STEEL						
HS-103	HOT ROLLED STEEL - POWDERCOAT	---	---	*Prismatic Powders / PPP-4958 / Flatop Black LRV: 9 Paint Match - SW7645	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
MELAMINE						
ML-100	MELAMINE - WHITE	MEDEX	---	WHITE	CASEWORK	---
ML-101	MELAMINE - BLACK	MEDEX	---	BLACK	CASEWORK	---
PLASTIC LAMINATE						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	---	BLACK; MATTE	CASEWORK	---
PL-106	PLASTIC LAMINATE - WHITE	WILSONART / 1573-60	---	FROSTY WHITE; MATTE	CASEWORK	---
PAINT						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	---	*Ceiling Bright White; Semi-gloss LRV: 85	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOUJI WHITE	SHERWIN WILLIAMS / SW7042	---	SHOUJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-121	PAINT - SANDBAR	SHERWIN WILLIAMS / SW7547	---	SANDBAR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-124	PAINT - BRAINSTORM BRONZE	SHERWIN WILLIAMS / SW7033	---	BRAINSTORM BRONZE; SW7033	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE						
SC-100	SEALED CONCRETE	CONSOLDECK	---	CONCRETE PROTECTOR; CLEAR	CONTRACTOR	PENETRATING SEALER; USDA APPROVED
STAINLESS STEEL						
ST-100	STAINLESS STEEL PANEL	---	---	#4 FINISH	CONTRACTOR	---
WALLCOVERING						
WC-108	WALL COVERING - FOUNDATION - ONYX	Wolf Gordon / Foundation / FDN 5406 / G0H32134203	52"W	CONCRETE MIX	CONTRACTOR	---
WOOD						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / V035-00915	8.98" X 72.05" X 8MM	WADDINGTON OAK	CASEWORK	---
WD-123	LOST COAST REDWOOD PANELING - NYLON BRUSHED	TERRAMAI / LOST COAST REDWOOD 7" PANELING - WEATHERED; NYLON BRUSHED	7"W X 2 TO 5' RANDOM L X 1/2"THK	UNFINISHED NYLON BRUSHED WEATHERED FACE	CONTRACTOR	---
WD-200	SOLID MAPLE	---	---	CLEAR COAT; MATTE	CONTRACTOR	RESTROOM DOORS
WIRE MESH						
WM-103	WIRE METAL MESH - 2" SQUARE	MCNICHOLS / 3620320048	2" SQUARE WELDED 2307 WIRE; 48"X36"	COLD ROLLED STEEL	MCNICHOLS	---

INTERIOR SIGNAGE SCHEDULE

OWNER'S VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED							
QUANTITY	TAG	ITEM	MANUFACTURER/MODEL/SIZE	FINISH	VENDOR	REMARKS	
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	58-12"W X 1'D X 79-3/8"H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	COMES WITH 6" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED; IT CAN BE INSTALLED WITHOUT FRAME
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-12"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2"W X 3/4"D X 47-1/2"H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	DIRECT PRINTED STORE LOGO ON FACE; INSTALL WITH Z-CLIPS. PROVIDED
1	G-141-TM	ORDER HERE SIGN - TOP	WALTON SIGNAGE / MOD-OH-TM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	WALTON SIGNAGE	PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
1	G-144	OPEN SIGN	CUSTOM	22" DIA X 1-7/8"D (PIPE SUPPORT LENGTH - 36")	ALUMINUM; FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO SOFFIT RECEPTACLE; SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
5	G-300	ACCESSIBLE PLACARD	CUSTOM	3"W X 3"H	ALUMINUM	EDWARD DON	SEE 91A-801; INSTALLED BY CONTRACTOR

1	G-307	DOOR TO REMAIN UNLOCKED SIGN	RESTROOM REMODELS / D115	24"W X 15"H	VINYL DECAL	CONTRACTOR	SEE 91A-801
1	G-308	OCCUPANCY SIGN	RESTROOM REMODELS / EP5380	6"W X 6"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	MOUNT AT 48" AFF; SEE 91A-801; PROVIDE NUMERICAL VALUE TO VENDOR WHEN ORDERING - SEE A-112 FOR NUMERICAL VALUE FOR EACH SIGN
2	G-309-VT	TACTILE EXIT SIGN - VERTICAL	RESTROOM REMODELS / MCO2853	2"W X 8"H	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 91A-801; SOURCE FROM RESTROOM REMODELS
1	G-311-MM	ACCESSIBLE RESTROOM WALL SIGN - MEN	RESTROOM REMODELS / EP0002MOD	6"W X 9"H X 1/8"D (1/2" TACTILE GRAPHICS & WORDING; 5/8" TEXT	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 91A-801; SOURCE FROM RESTROOM REMODELS
1	G-311-WN	ACCESSIBLE RESTROOM WALL SIGN - WOMEN	RESTROOM REMODELS / EP0004-BLACK	6"W X 9"H X 1/8"D (1/2" TACTILE GRAPHICS & WORDING; 5/8" TEXT	PLASTIC; WHITE ON BLACK	CONTRACTOR	SEE 91A-801; SOURCE FROM RESTROOM REMODELS

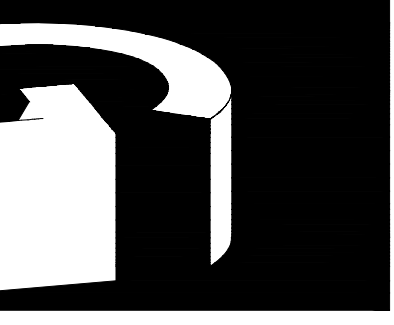
SHEET NOTES

- REFER TO A-131 FOR FLOOR & BASE FINISHES.
- REFER TO A-131 FOR TRIM FINISHES.



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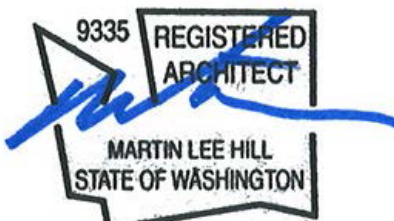


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10.15.21

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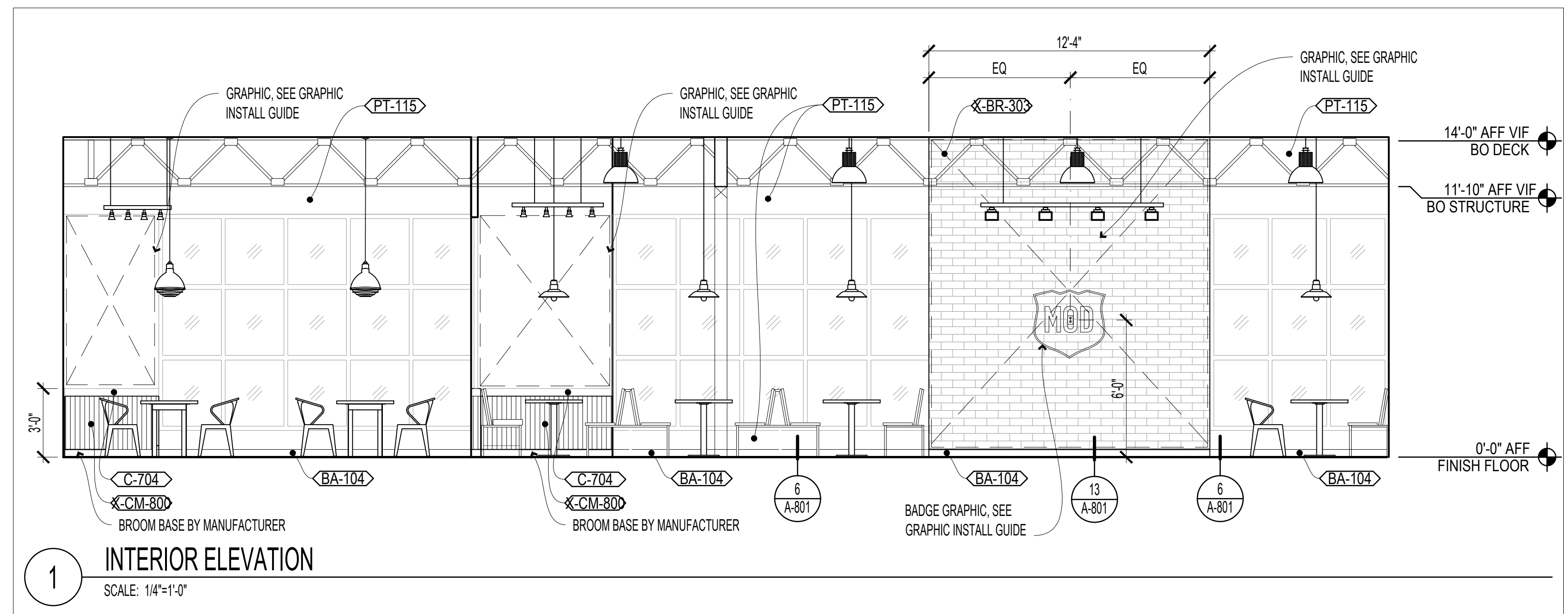
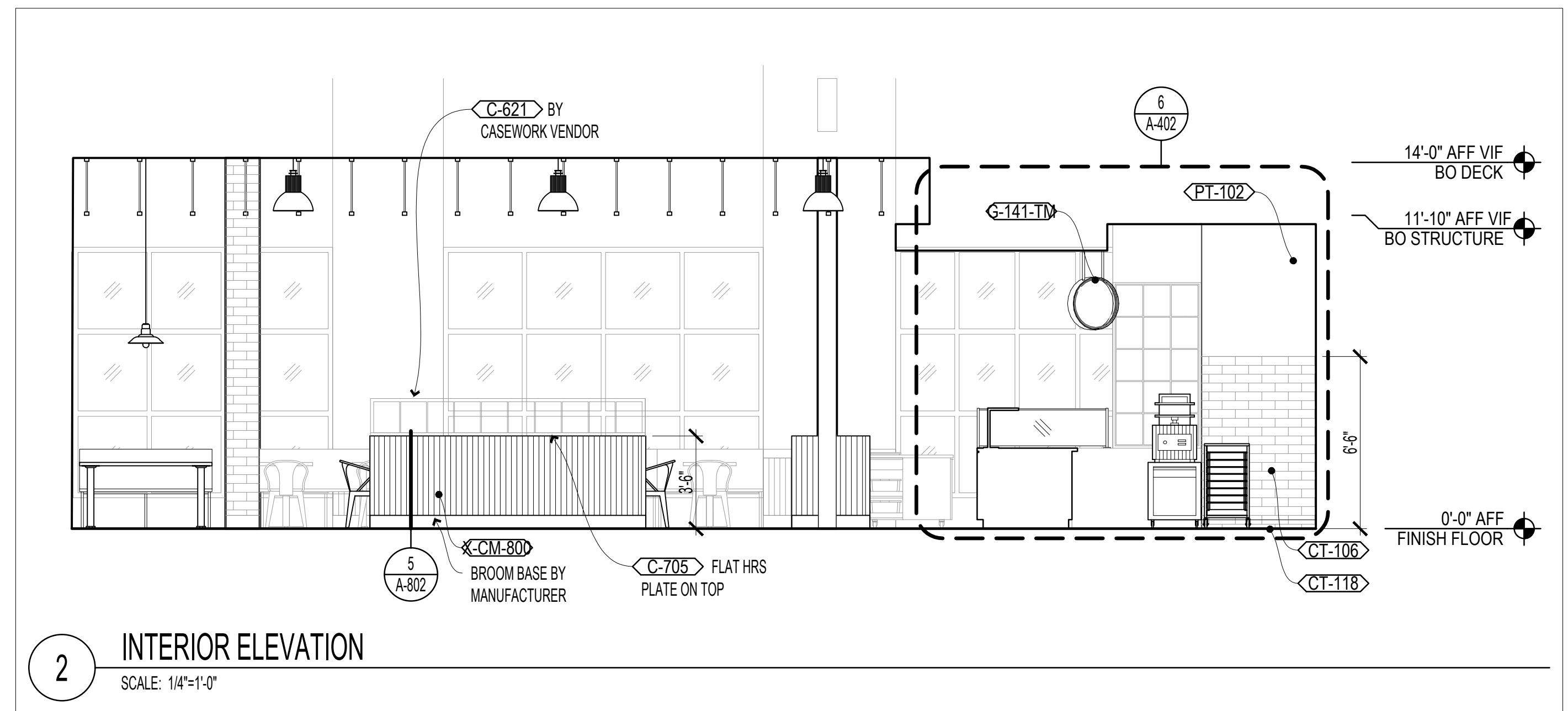
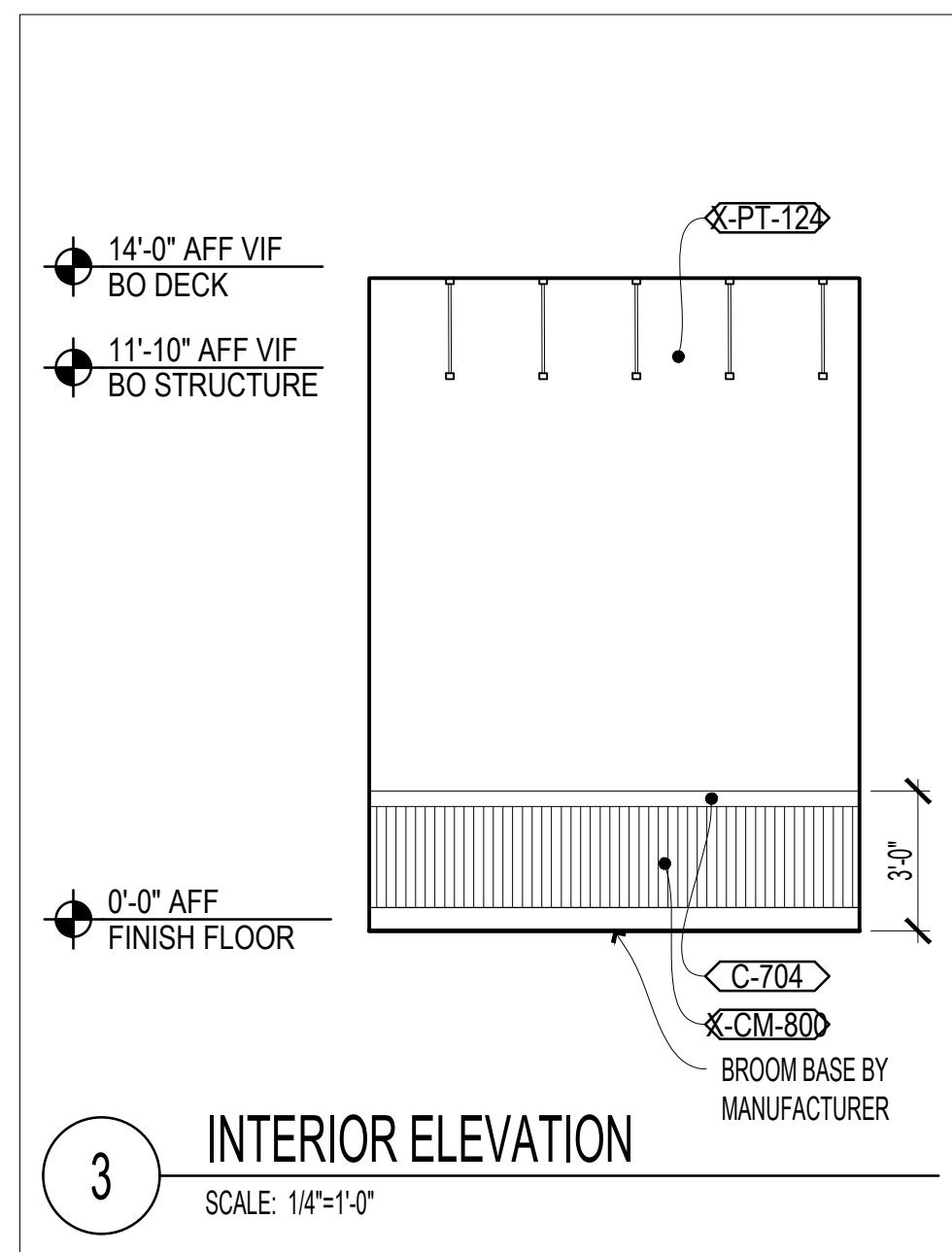
ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET 10.15.21

A-703

INTERIOR ELEVATIONS
DINING



FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED						
TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
BASE						
BA-102	RUBBER COVE BASE - 4"	ARMSTRONG / V4161	4TH	*Graphite Gray LRV: 7 Paint Match - SW762*	CONTRACTOR	EMPLOYEE SIDE OF CASEWORK; CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-104	FORBO WALL BASE - 6"	FORBO / WALL BASE / C35 LAVA	6TH	C35 LAVA	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BRICK						
X-BR-303	FAUX BRICK PANEL - COUNTRY WHITE	CONSTRUCTION SPECIALTIES / ARTERRA COUNTRY BRICK WHITE	51-916"W X 34-518"H X 1-316"THK	WHITE	CONTRACTOR	---
CEILINGS						
CL-100	Z4X ACOUSTIC CEILING PANEL	OWNES CORNING	Z4W X 4L X 2THK	*White; Vinyl Face LRV: 76*	CONTRACTOR	2" THICK
TILE						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-14"W X 12-34"L X 5/16"THK	*0790 Arctic White; Matte LRV: 83*	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Oven tile application (high-heat surfaces) *SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-118	4X12 SEMI-GLOSS COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0190	4 1/4"W X 12 7/8"L X 5/16"THK	SEMI-GLOSS ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0190	4 1/4"W X 12 7/8"L X 5/16"THK	*Matte Arctic White LRV: 83*	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in Charcoal Gray for Oven tile application (high-heat surfaces) *SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-204	SLIDE 4X12 WALL TILE - OCEAN	EUROWEST / SLIDE OCEAN 75486	4"W X 12"L X 5/16"THK	OCEAN; GLOSS	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL; STRAIGHT STACK
CORRUGATED METAL						
X-CM-800	1/4" CORRUGATED METAL - DARK BRONZE	BRIDGER STEEL / CORRUGATED METAL SIDING PANEL SYSTEM	1/4" CORRUGATED; 24 GAUGE	DARK BRONZE	CONTRACTOR	INSTALL WITH EXPOSED FASTENERS; USE MATCHING TRIM PROFILES FOR CORNERS, BASE AND WAINSCOT TRIM
COUNTER SURFACE						
CS-102	QUARTZ - LORRAINE	WILSONART / Q1012	2CM; 55" X 120" SLAB	LORRAINE	CASEWORK	---
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2"; 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	---
FABRIC						
FA-112	VINYL - DAFFODIL	WOLF GORDON / G0H31925153	54" WIDE	DAFFODIL - EAST VILLAGE (EAV 8449)	CASEWORK	---
FIBER REINFORCED PLASTIC						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4W X 8' OR 10L X 3/32"THK	*White; Pebbled Surface LRV: 83*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4W X 8' OR 10L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
HOT ROLLED STEEL						
HS-103	HOT ROLLED STEEL - POWDERCOAT	---	---	*Prismatic Powders / PPP-4958 / Flatop Black LRV: 9 Paint Match - SW7645*	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
MELAMINE						
ML-100	MELAMINE - WHITE	MEDEX	---	WHITE	CASEWORK	---
ML-101	MELAMINE - BLACK	MEDEX	---	BLACK	CASEWORK	---
PLASTIC LAMINATE						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	---	BLACK; MATTE	CASEWORK	---
PL-106	PLASTIC LAMINATE - WHITE	WILSONART / 1573-60	---	FROSTY WHITE; MATTE	CASEWORK	---
PAINT						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	---	*Ceiling Bright White; Semi-gloss LRV: 85*	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOUJI WHITE	SHERWIN WILLIAMS / SW7042	---	SHOUJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-121	PAINT - SANDBAR	SHERWIN WILLIAMS / SW7547	---	SANDBAR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-124	PAINT - BRAINSTORM BRONZE	SHERWIN WILLIAMS / SW7033	---	BRAINSTORM BRONZE; SW7033	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE						
SC-100	SEALED CONCRETE	CONSOLDECK	---	CONCRETE PROTECTOR, CLEAR	CONTRACTOR	PENETRATING SEALER, USDA APPROVED
STAINLESS STEEL						
ST-100	STAINLESS STEEL PANEL	---	---	#4 FINISH	CONTRACTOR	---
WALLCOVERING						
WC-108	WALL COVERING - FOUNDATION - ONYX	Wolf Gordon / Foundation / FDN 5406 / G0H32134203	52"W	CONCRETE MIX	CONTRACTOR	---
WOOD						
WD-121	ENGINEERED VINYL PLANK - WADDINGTON OAK	CORETEC / V1035-00915	8.98" X 72.05" X 8MM	WADDINGTON OAK	CASEWORK	---
WD-123	LOST COAST REDWOOD PANELING - NYLON BRUSHED	TERRAMAI / LOST COAST REDWOOD 7" PANELING - WEATHERED, NYLON BRUSHED	7"W X 2 TO 5' RANDOM L X 1/2"THK	UNFINISHED NYLON BRUSHED WEATHERED FACE	CONTRACTOR	---
WD-200	SOLID MAPLE	---	---	CLEAR COAT, MATTE	CONTRACTOR	RESTROOM DOORS
WIRE MESH						
WM-103	WIRE METAL MESH - 2" SQUARE	MCNICHOLS / 3620320048	2" SQUARE WELDED 230T WIRE, 48"X36"	COLD ROLLED STEEL	MCNICHOLS	---

INTERIOR SIGNAGE SCHEDULE

OWNER'S/VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED							
QUANTITY	TAG	ITEM	MANUFACTURER/MODEL/SIZE	FINISH	VENDOR	REMARKS	
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	58-12"W X 1'D X 79-3/8"H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	COMES WITH 6" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED, IT CAN BE INSTALLED WITHOUT FRAME
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-12"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2"W X 3/4"D X 47-1/2"H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	DIRECT PRINTED STORE LOGO ON FACE. INSTALL WITH Z-CLIPS. PROVIDED
1	G-141-TM	ORDER HERE SIGN - TOP	WALTON SIGNAGE / MOD-OH-TM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	WALTON SIGNAGE	PLUG INTO WALL RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
1	G-144	OPEN SIGN	CUSTOM	22" DIA X 1-7/8"D (PIPE SUPPORT LENGTH - 36")	ALUMINUM; FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO SOFFIT RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
5	G-300	ACCESSIBLE PLACARD	CUSTOM	3"W X 5"H	ALUMINUM	EDWARD DON	SEE 91A-601; INSTALLED BY CONTRACTOR

1	G-307	DOOR TO REMAIN UNLOCKED SIGN	RESTROOM REMODELS / D115	24"W X 15"H	VINYL DECAL	CONTRACTOR	SEE 91A-601
1	G-308	OCCUPANCY SIGN	RESTROOM REMODELS / EP5380	6"W X 6"H	PLASTIC, WHITE ON BLACK	CONTRACTOR	MOUNT AT 48" AFF. SEE 91A-601; PROVIDE NUMERICAL VALUE TO VENDOR WHEN ORDERING - SEE A-112 FOR NUMERICAL VALUE FOR EACH SIGN
2	G-309-VT	TACTILE EXIT SIGN - VERTICAL	RESTROOM REMODELS / MCO2853	2"W X 8"H	PLASTIC, WHITE ON BLACK	CONTRACTOR	SEE 91A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-MN	ACCESSIBLE RESTROOM WALL SIGN - MEN	RESTROOM REMODELS / EP0002MOD	6"W X 9"H X 1/8"D (1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT)	PLASTIC, WHITE ON BLACK	CONTRACTOR	SEE 91A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-WN	ACCESSIBLE RESTROOM WALL SIGN - WOMEN	RESTROOM REMODELS / EP0004-BLACK	6"W X 9"H X 1/8"D (1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT)	PLASTIC, WHITE ON BLACK	CONTRACTOR	SEE 91A-601; SOURCE FROM RESTROOM REMODELS

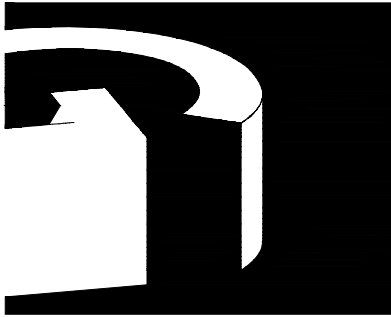
SHEET NOTES

- REFER TO A-131 FOR FLOOR & BASE FINISHES.
- REFER TO A-131 FOR TRIM FINISHES.



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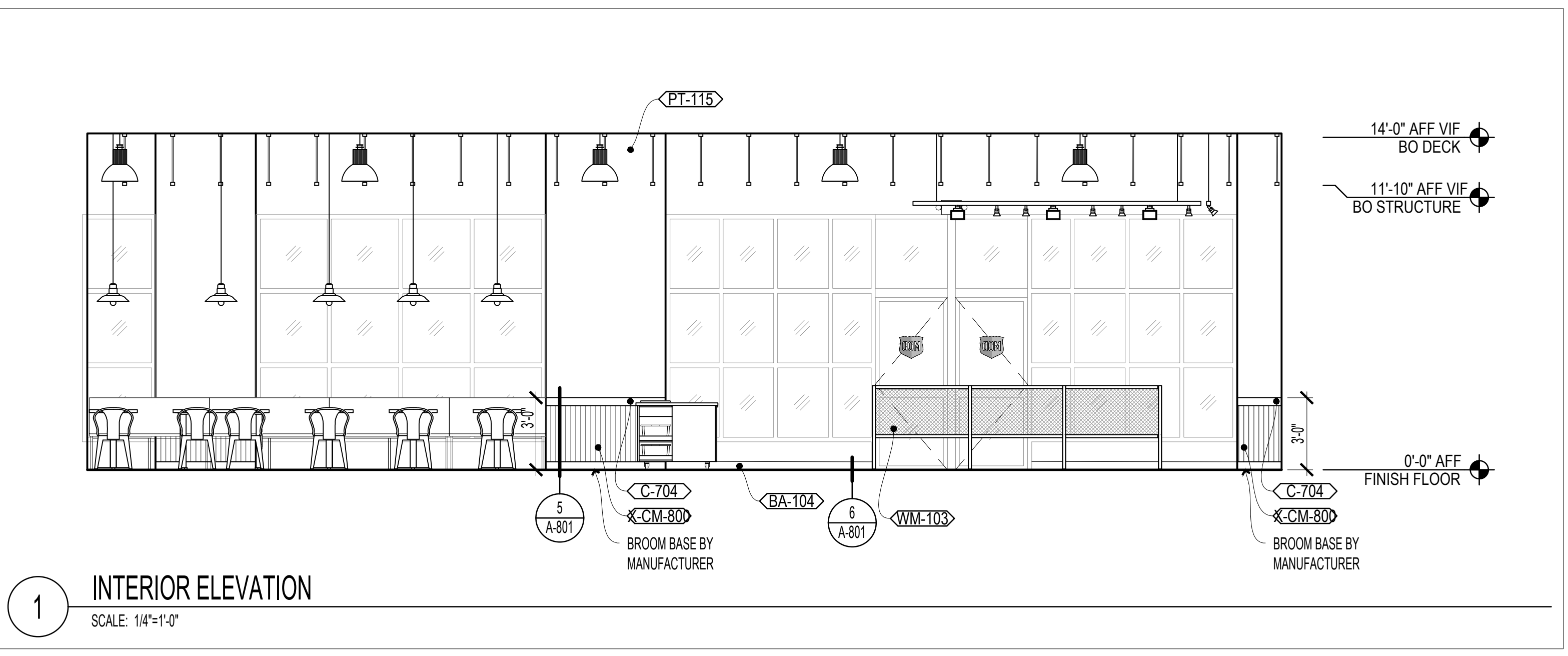
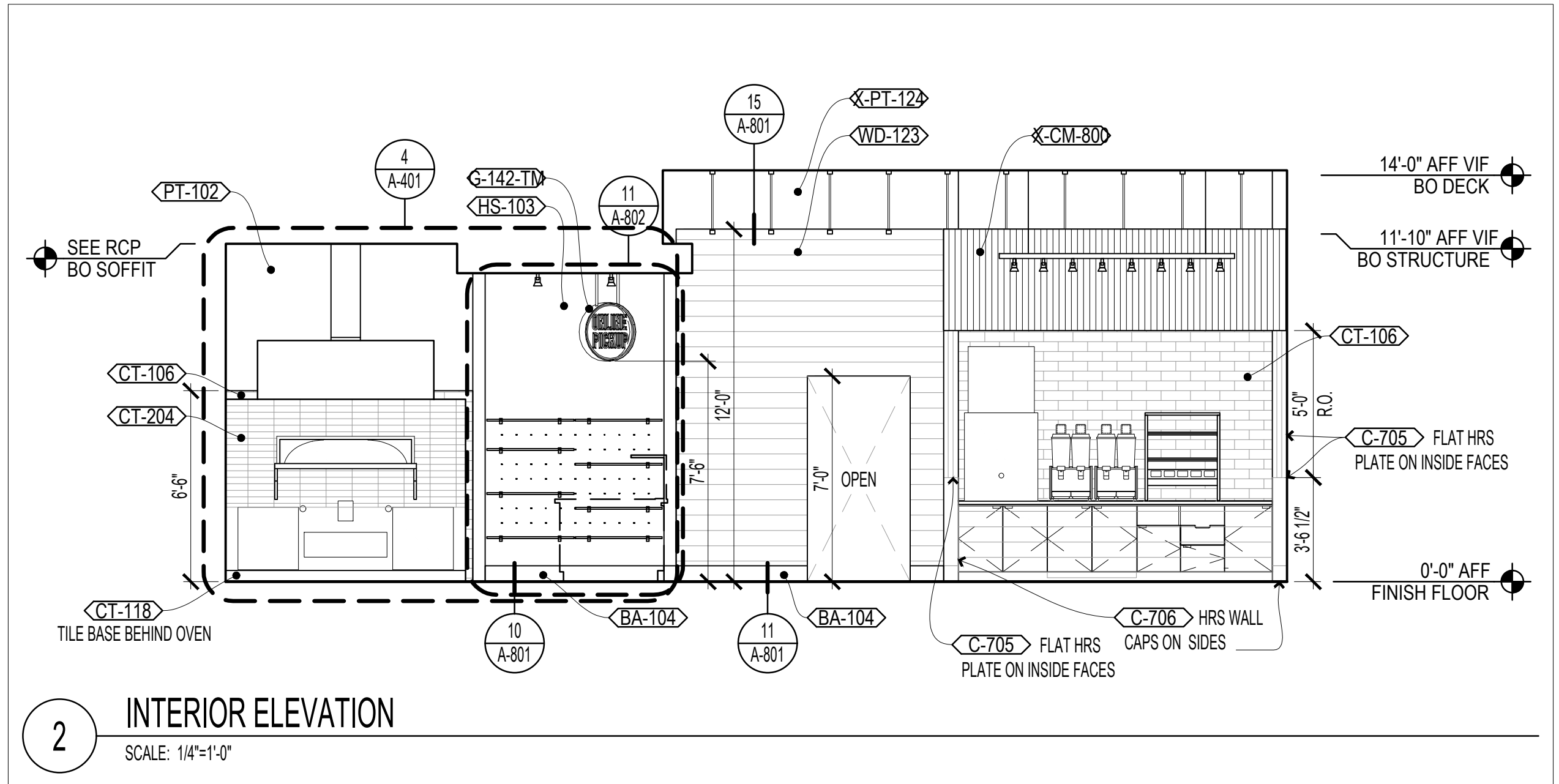
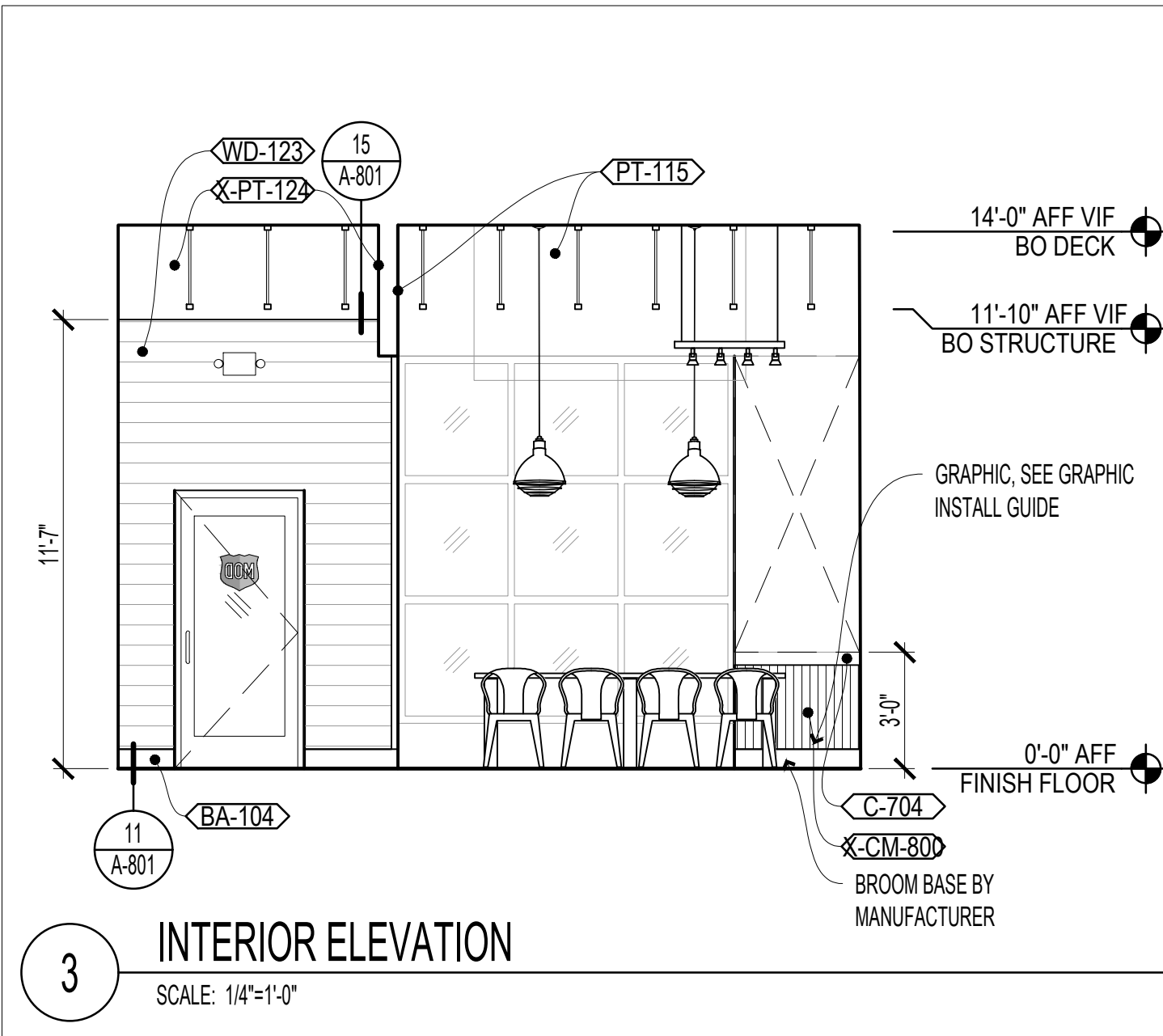
ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET 10.15.21

A-704

INTERIOR ELEVATIONS
DINING



FINISH SCHEDULE

ALL FINISHES FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED. USE MOD PIZZA NATIONAL ACCOUNT CONTACTS WHERE INDICATED						
TAG	ITEM	MANUFACTURER/MODEL	SIZE	FINISH	VENDOR	REMARKS
BASE						
BA-102	RUBBER COVE BASE - 4"	ARMSTRONG / V4161	4TH	*Graphite Gray LRV: 7 Paint Match - SW762*	CONTRACTOR	EMPLOYEE SIDE OF CASEWORK; CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BA-104	FORBO WALL BASE - 6"	FORBO / WALL BASE / C35 LAVA	6TH	C35 LAVA	CONTRACTOR	CONTINUOUS CLEAR SILICON BEAD AT BASE TOP TO WALL FINISH
BRICK						
X-BR-303	FAUX BRICK PANEL - COUNTRY WHITE	CONSTRUCTION SPECIALTIES / ARTERRA COUNTRY BRICK WHITE	51-9/16"W X 34-5/8"H X 1-3/16"THK	WHITE	CONTRACTOR	---
CEILINGS						
CL-100	Z4X ACOUSTIC CEILING PANEL	OWNERS CORNING	Z4W X 4L X 2THK	*White, Vinyl Face LRV: 76*	CONTRACTOR	2" THICK
TILE						
CT-106	4X12 WALL TILE - ARCTIC WHITE - MATTE	DAL TILE / COLOR WHEEL LINEAR / 0790	4-1/4"W X 12-3/4"L X 5/16"THK	*0790 Arctic White; Matte LRV: 83*	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in *Charcoal Gray for Oven tile application (high-heat surfaces)* SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-118	4X12 SEMI-GLOSS COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0190	4 1/4"W X 12 7/8"L X 5/16"THK	SEMI-GLOSS ARCTIC WHITE	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL
CT-119	4X12 MATTE COVE BASE - ARCTIC WHITE	DAL TILE / COLOR WHEEL LINEAR / A34C1MOD 4X12CB 0190	4 1/4"W X 12 7/8"L X 5/16"THK	*Matte Arctic White LRV: 83*	CONTRACTOR	*GROUT: MAPEI-47 Charcoal (or) TEC AccuColor EFX Epoxy Special Effects Grout in *Charcoal Gray for Oven tile application (high-heat surfaces)* SEE SPEC. SECTION 093000 FOR ADD. INFO.
CT-204	SLIDE 4X12 WALL TILE - OCEAN	EUROWEST / SLIDE OCEAN 75486	4"W X 12"L X 5/16"THK	OCEAN; GLOSS	CONTRACTOR	GROUT: MAPEI-47 CHARCOAL; STRAIGHT STACK
CORRUGATED METAL						
X-CM-800	1/4" CORRUGATED METAL - DARK BRONZE	BRIDGER STEEL / CORRUGATED METAL SIDING PANEL SYSTEM	1/4" CORRUGATED; 24 GAUGE	DARK BRONZE	CONTRACTOR	INSTALL WITH EXPOSED FASTENERS; USE MATCHING TRIM PROFILES FOR CORNERS, BASE AND WAINSCOT TRIM
COUNTER SURFACE						
CS-102	QUARTZ - LORRAINE	WILSONART / Q1012	2CM, 55" X 120" SLAB	LORRAINE	CASEWORK	---
CS-201	SOLID SURFACE - YUKON RIVERSTONE	WILSONART / 9196RS	1/2"; 30" X 144" SLAB	YUKON RIVERSTONE	CASEWORK	---
FABRIC						
FA-112	VINYL - DAFFODIL	WOLF GORDON / GOH31925153	54" WIDE	DAFFODIL - EAST VILLAGE (EAV 8449)	CASEWORK	---
FIBER REINFORCED PLASTIC						
FP-100	FIBER REINFORCED PLASTIC - WHITE	MARLITE / STANDARD P100	4"W X 8" OR 10L X 3/32"THK	*White; Pebbled Surface LRV: 83*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL IN KITCHEN
FP-101	FIBER REINFORCED PLASTIC - BLACK	MARLITE / STANDARD P807	4"W X 8" OR 10L X 3/32"THK	*Black; Pebbled Surface LRV: 0.5*	CONTRACTOR	TRIM TO MATCH PANEL COLOR; INSTALL BEHIND BEVERAGE CASEWORK
HOT ROLLED STEEL						
HS-103	HOT ROLLED STEEL - POWDERCOAT	---	---	*Prismatic Powders / PPB-4958 / Flatop Black LRV: 9 Paint Match - SW7645*	CASEWORK OR BFC METALS	USE DIRECTLY ON HOT ROLLED STEEL; DO NOT USE RECOMMENDED BASE COAT
MELAMINE						
ML-100	MELAMINE - WHITE	MEDEX	---	WHITE	CASEWORK	---
ML-101	MELAMINE - BLACK	MEDEX	---	BLACK	CASEWORK	---
PLASTIC LAMINATE						
PL-105	PLASTIC LAMINATE - BLACK	WILSONART / 1595-60	---	BLACK; MATTE	CASEWORK	---
PL-106	PLASTIC LAMINATE - WHITE	WILSONART / 1573-60	---	FROSTY WHITE; MATTE	CASEWORK	---
PAINT						
PT-102	PAINT - CEILING BRIGHT WHITE	SHERWIN WILLIAMS / SW7007	---	*Ceiling Bright White; Semi-gloss LRV: 85*	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
PT-115	PAINT - SHOUJI WHITE	SHERWIN WILLIAMS / SW7042	---	SHOUJI WHITE; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-121	PAINT - SANDBAR	SHERWIN WILLIAMS / SW7547	---	SANDBAR; SEMI-GLOSS	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
X-PT-124	PAINT - BRAINSTORM BRONZE	SHERWIN WILLIAMS / SW7033	---	BRAINSTORM BRONZE; SW7033	CONTRACTOR	REFER TO SHERWIN-WILLIAMS PAINT SCHEDULE GUIDE 2019
SEALED CONCRETE						
SC-100	SEALED CONCRETE	CONSOLIDECK	---	CONCRETE PROTECTOR, CLEAR	CONTRACTOR	PENETRATING SEALER, USDA APPROVED
STAINLESS STEEL						
ST-100	STAINLESS STEEL PANEL	---	---	#4 FINISH	CONTRACTOR	---
WALLCOVERING						
WC-108	WALL COVERING - FOUNDATION - ONYX	Wolf Gordon / Foundation / FDN 5406 / GOH32134203	52"W	CONCRETE MIX	CONTRACTOR	---
WOOD						
WD-121	ENGINEERED VINYL PLANK - WASHINGTON OAK	CORETEC / VV035-00915	8.98" X 72.05" X 8MM	WASHINGTON OAK	CASEWORK	---
WD-123	LOST COAST REDWOOD PANELING - NYLON BRUSHED	TERRAMAU / LOST COAST REDWOOD 7" PANELING - WEATHERED, NYLON BRUSHED	7"W X 2 TO 5' RANDOM L X 1/2"THK	UNFINISHED NYLON BRUSHED WEATHERED FACE	CONTRACTOR	---
WD-200	SOLID MAPLE	---	---	CLEAR COAT, MATTE	CONTRACTOR	RESTROOM DOORS
WIRE MESH						
WM-103	WIRE METAL MESH - 2" SQUARE	MCNICHOLS / 3820320048	2" SQUARE WELDED 230T WIRE, 48"X96"	COLD ROLLED STEEL	MCNICHOLS	---

INTERIOR SIGNAGE SCHEDULE

OWNER'S/VENDOR FURNISHED ITEMS INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED							
QUANTITY	TAG	ITEM	MANUFACTURER/MODEL/SIZE	FINISH	VENDOR	REMARKS	
1	G-131	CLASSICS BOARD WITH FRAME	CUSTOM	58-1/2"W X 1'D X 79-3/8"H	16GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	COMES WITH 6" FRAME MECHANICALLY FASTENED TO MAIN PAN. INSTALLED WITH Z-CLIPS. PROVIDED, IT CAN BE INSTALLED WITHOUT FRAME
1	G-133	DRINKS HANGING MENU BOARD	CUSTOM	46"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-134	EXTRAS HANGING MENU BOARD	CUSTOM	51-1/2"W X 1'D X 31"H	20GA STEEL PAN POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	BLACK MAGALENS MAGNETICALLY MOUNTED TO FACE OF PAN; HANGING BRACKET ATTACHES TO MDF BOARD WITH LOCK NUT. INSTALL WITH WIRE CABLE TO ENGINE SOFFIT
1	G-137	COMMUNITY BOARD - 48X48	CUSTOM	47-1/2"W X 3/4"D X 47-1/2"H	STEEL CHASSIS POWDERCOATED MATTE BLACK	INTERIOR SIGNAGE VENDOR	DIRECT PRINTED STORE LOGO ON FACE. INSTALL WITH Z-CLIPS. PROVIDED
1	G-141-TM	ORDER HERE SIGN - TOP	WALTON SIGNAGE / MOD-OH-TM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	WALTON SIGNAGE	PLUG INTO WALL RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
1	G-142-TM	ONLINE PICKUP SIGN - TOP	CUSTOM	24" DIA X 5'D (PIPE SUPPORT LENGTH - 36")	ALUMINUM WITH HOT ROLLED STEEL FINISH FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO WALL RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
1	G-144	OPEN SIGN	CUSTOM	22" DIA X 1-7/8"D (PIPE SUPPORT LENGTH - 36")	ALUMINUM; FAUX NEON LED	INTERIOR SIGNAGE VENDOR	PLUG INTO SOFFIT RECEPTACLE. SEE SHOPS FOR MOUNTING - PROVIDE BLOCKING WHERE REQUIRED; CUT SUPPORT TUBE ON SITE PER SITE CONDITIONS
5	G-300	ACCESSIBLE PLACARD	CUSTOM	3"W X 3"H	ALUMINUM	EDWARD DON	SEE 91A-601; INSTALLED BY CONTRACTOR

1	G-307	DOOR TO REMAIN UNLOCKED SIGN	RESTROOM REMODELS / D115	24"W X 15"H	VINYL DECAL	CONTRACTOR	SEE 91A-601
1	G-308	OCCUPANCY SIGN	RESTROOM REMODELS / EP5380	6"W X 6"H	PLASTIC, WHITE ON BLACK	CONTRACTOR	MOUNT AT 48" AFF. SEE 91A-601; PROVIDE NUMERICAL VALUE TO VENDOR WHEN ORDERING - SEE A-112 FOR NUMERICAL VALUE FOR EACH SIGN
2	G-309-VT	TACTILE EXIT SIGN - VERTICAL	RESTROOM REMODELS / MCO2853	2"W X 8"H	PLASTIC, WHITE ON BLACK	CONTRACTOR	SEE 91A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-MN	ACCESSIBLE RESTROOM WALL SIGN - MEN	RESTROOM REMODELS / EP0002MOD	6"W X 9"H X 1/8"D (1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC, WHITE ON BLACK	CONTRACTOR	SEE 91A-601; SOURCE FROM RESTROOM REMODELS
1	G-311-WN	ACCESSIBLE RESTROOM WALL SIGN - WOMEN	RESTROOM REMODELS / EP0004-BLACK	6"W X 9"H X 1/8"D (1/32" TACTILE GRAPHICS & WORDING, 5/8" TEXT	PLASTIC, WHITE ON BLACK	CONTRACTOR	SEE 91A-601; SOURCE FROM RESTROOM REMODELS

SHEET NOTES

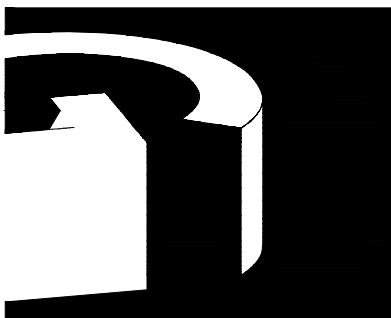
- REFER TO A-131 FOR FLOOR & BASE FINISHES.
- REFER TO A-131 FOR TRIM FINISHES.

OWNER



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SEAL



10.15.21

DOWNTOWN KIRKLAND
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KIRKLAND, WA 98033

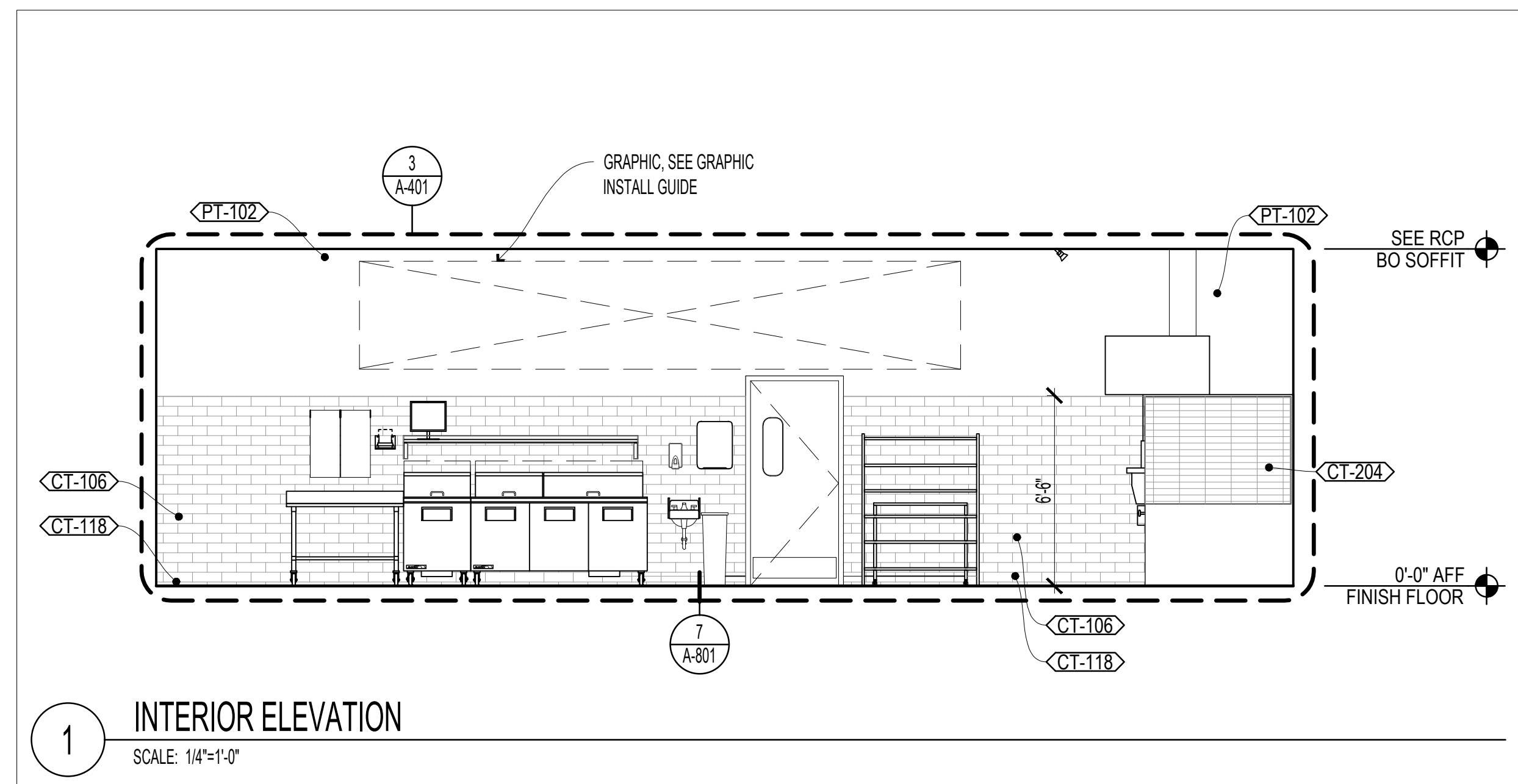
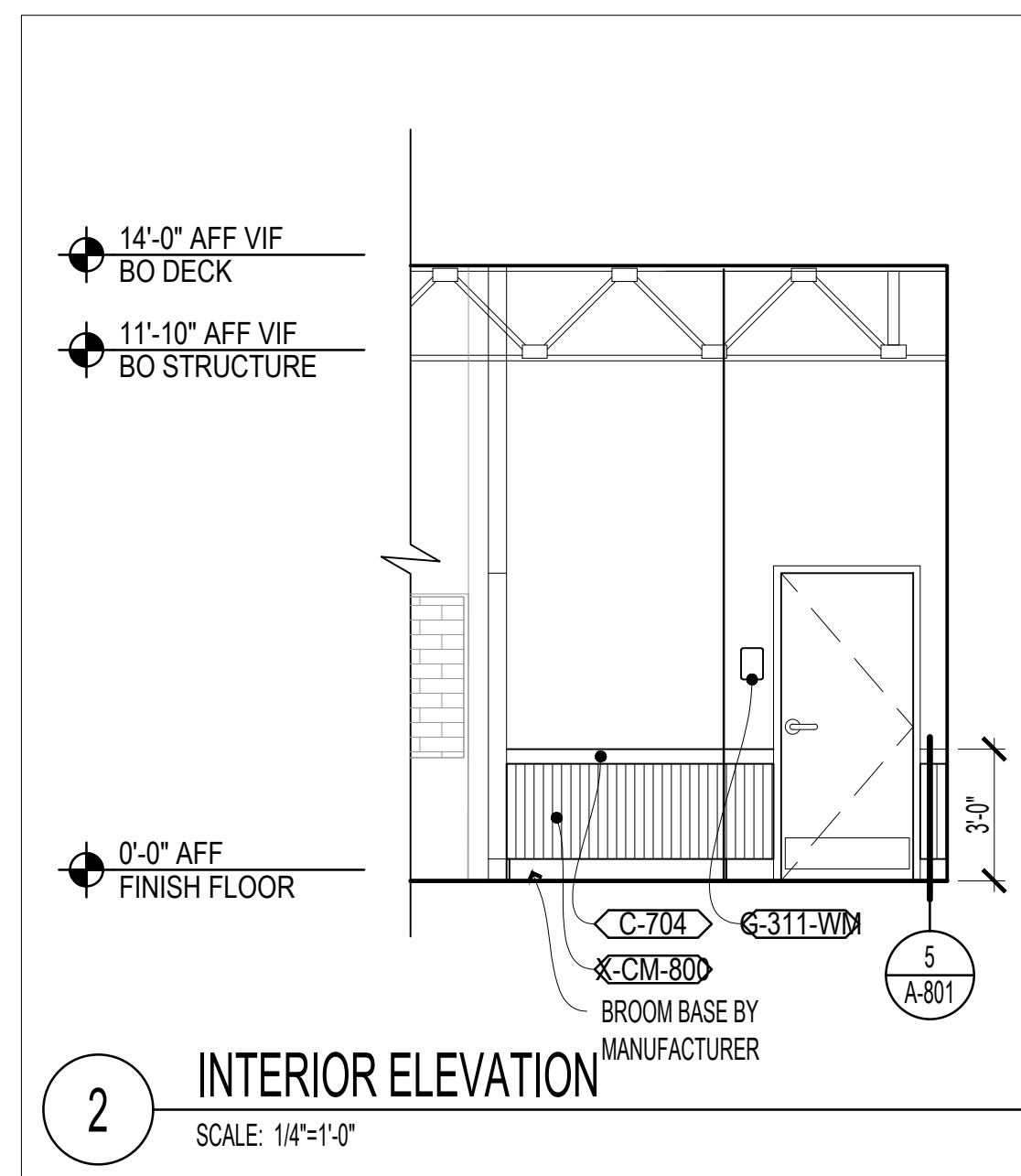
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PERMIT/BID SET 10.15.21

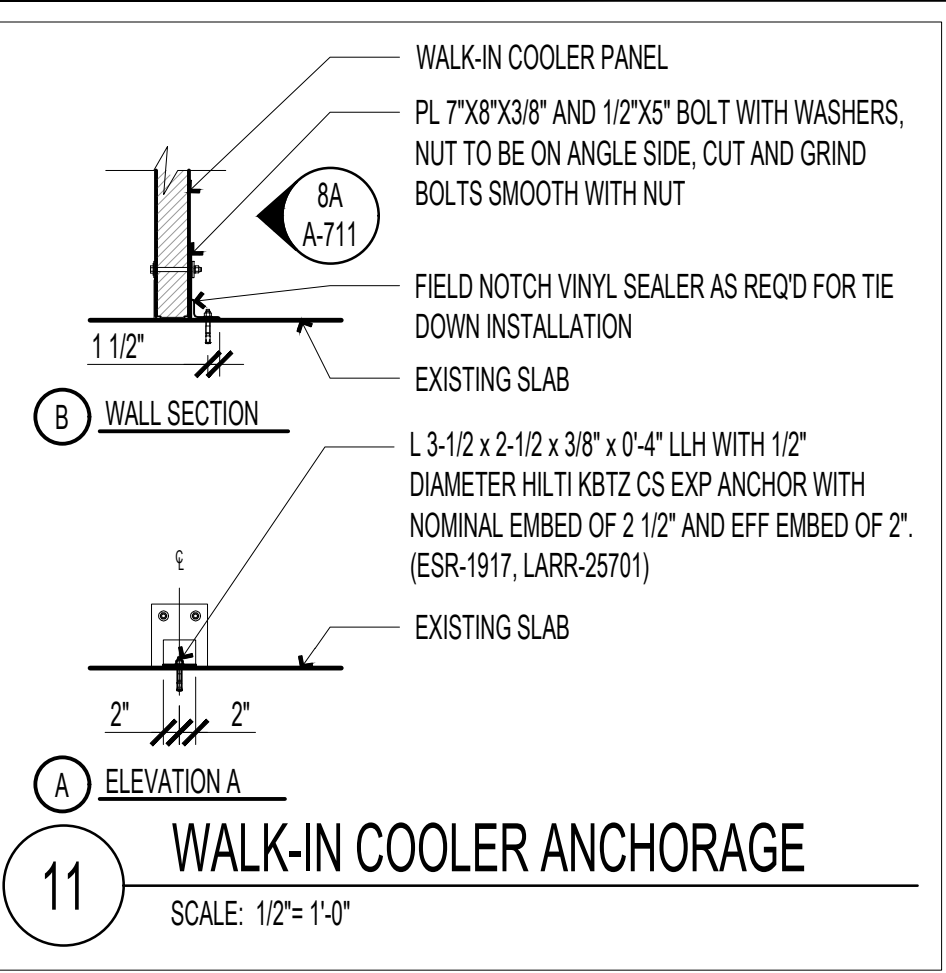
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PERMIT SET 10.15.21

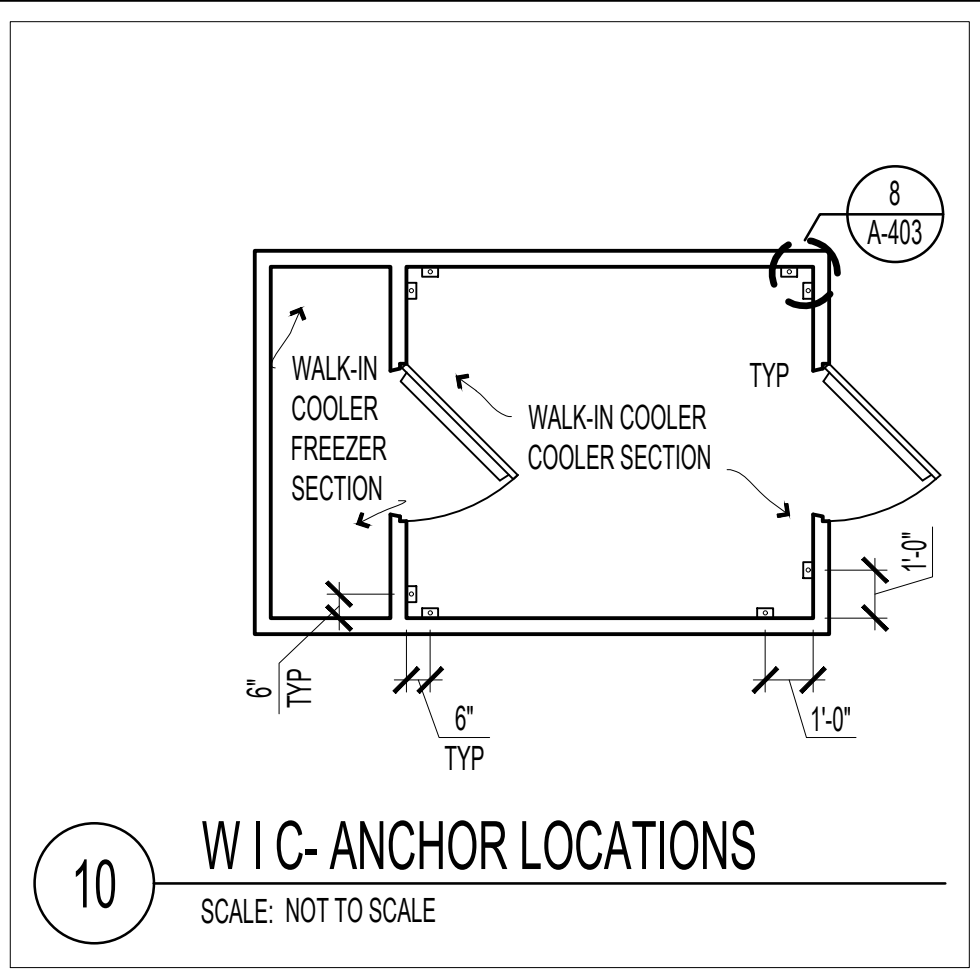
A-705

INTERIOR ELEVATIONS
DINING

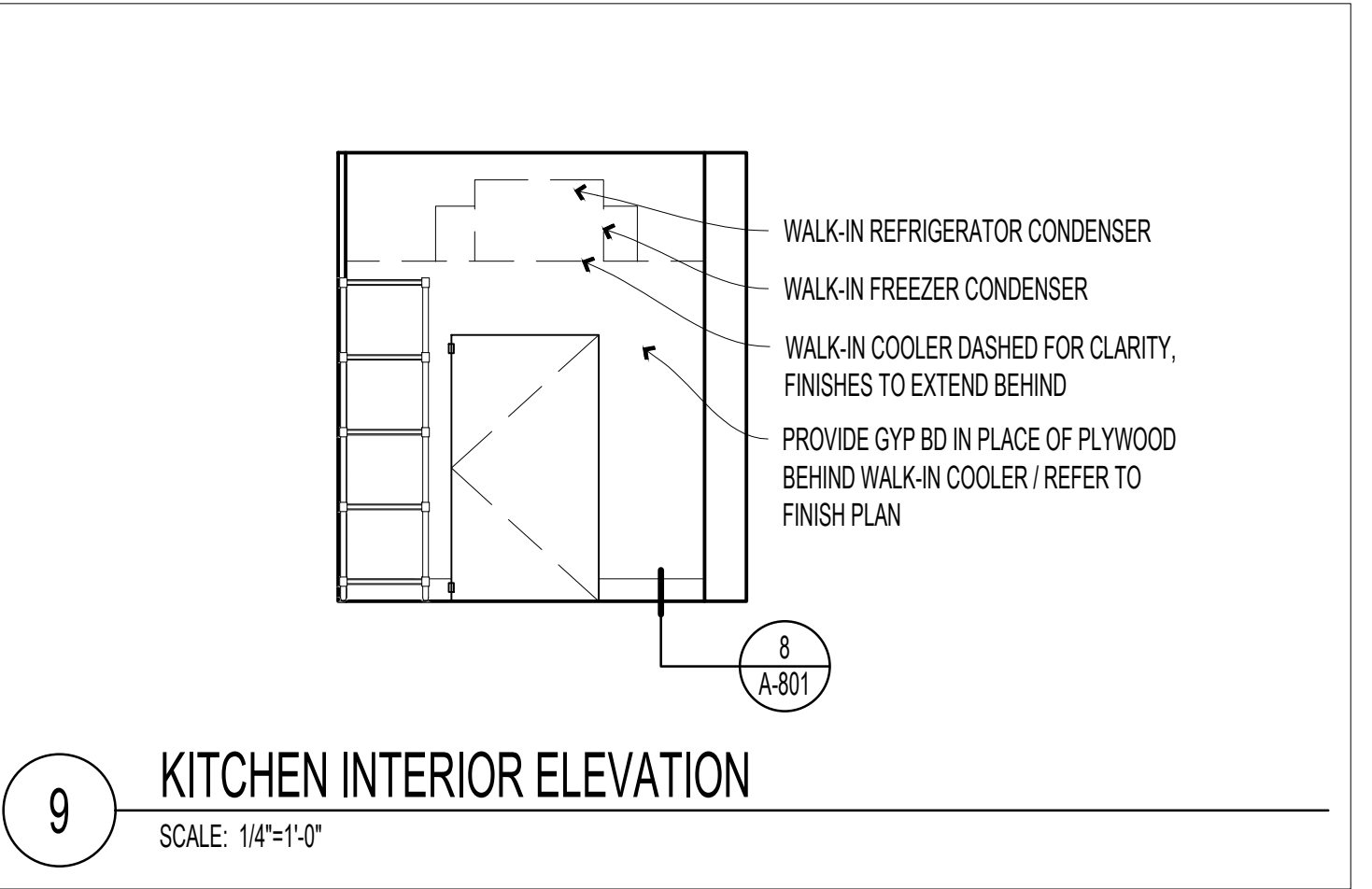




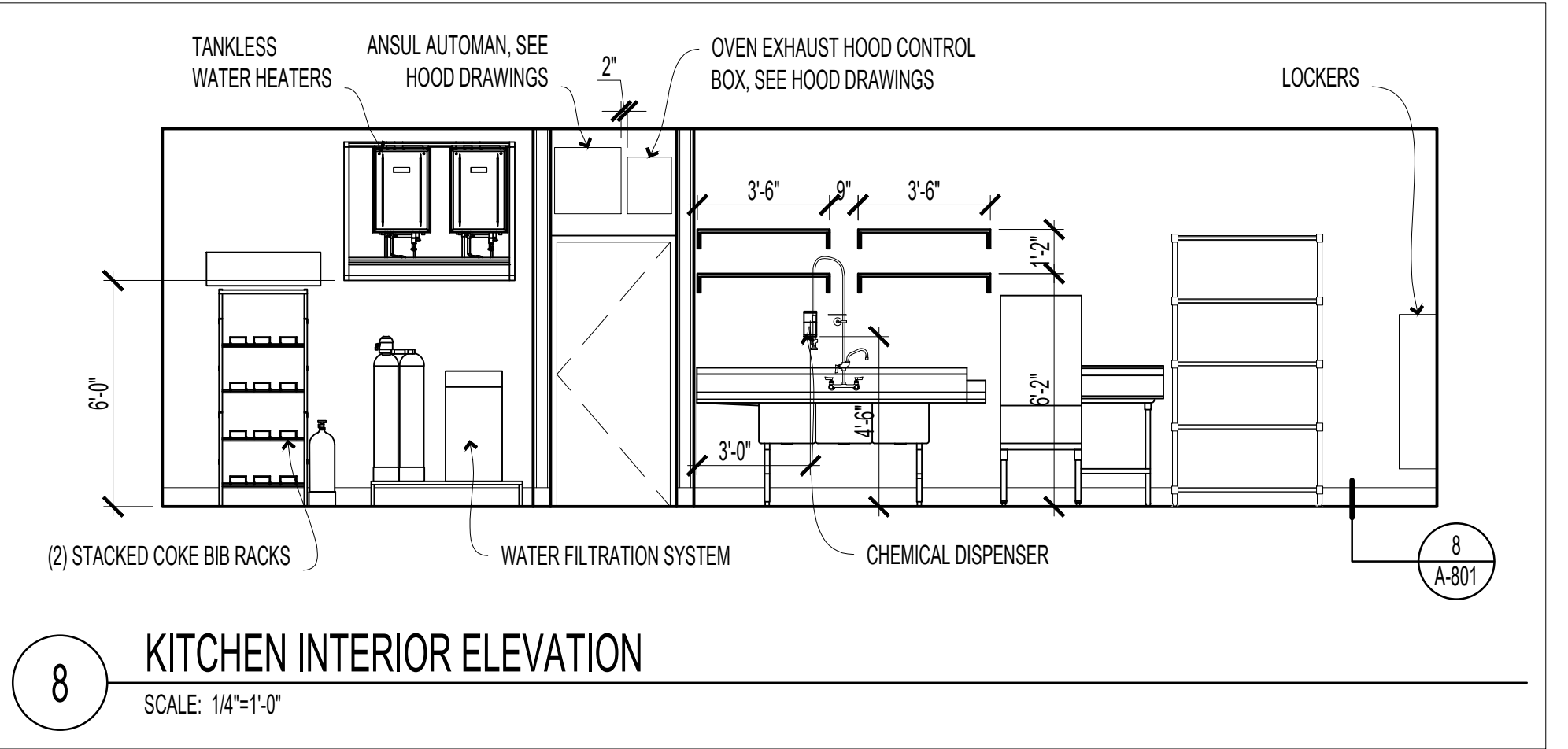
11 WALK-IN COOLER ANCHORAGE
SCALE: 1/2"=1'-0"



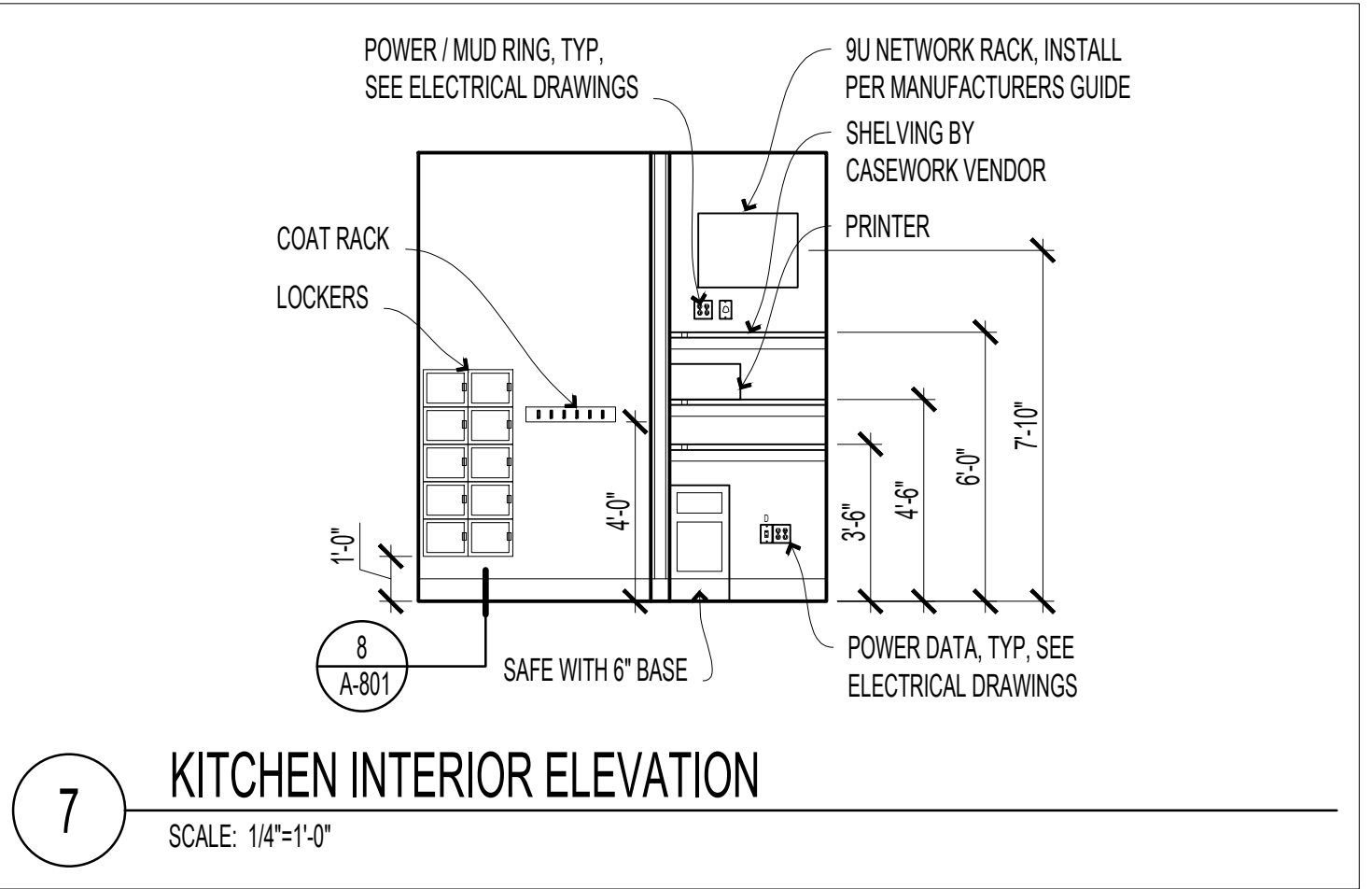
10 W I C- ANCHOR LOCATIONS
SCALE: NOT TO SCALE



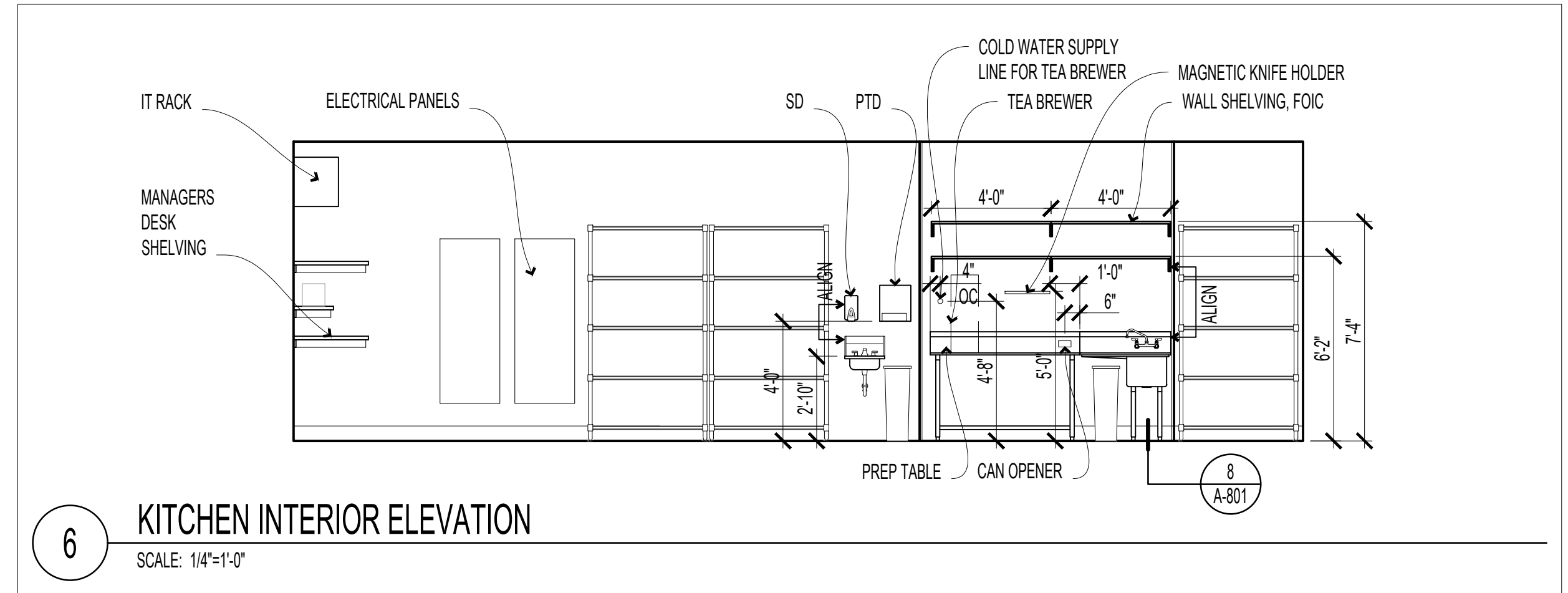
9 KITCHEN INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



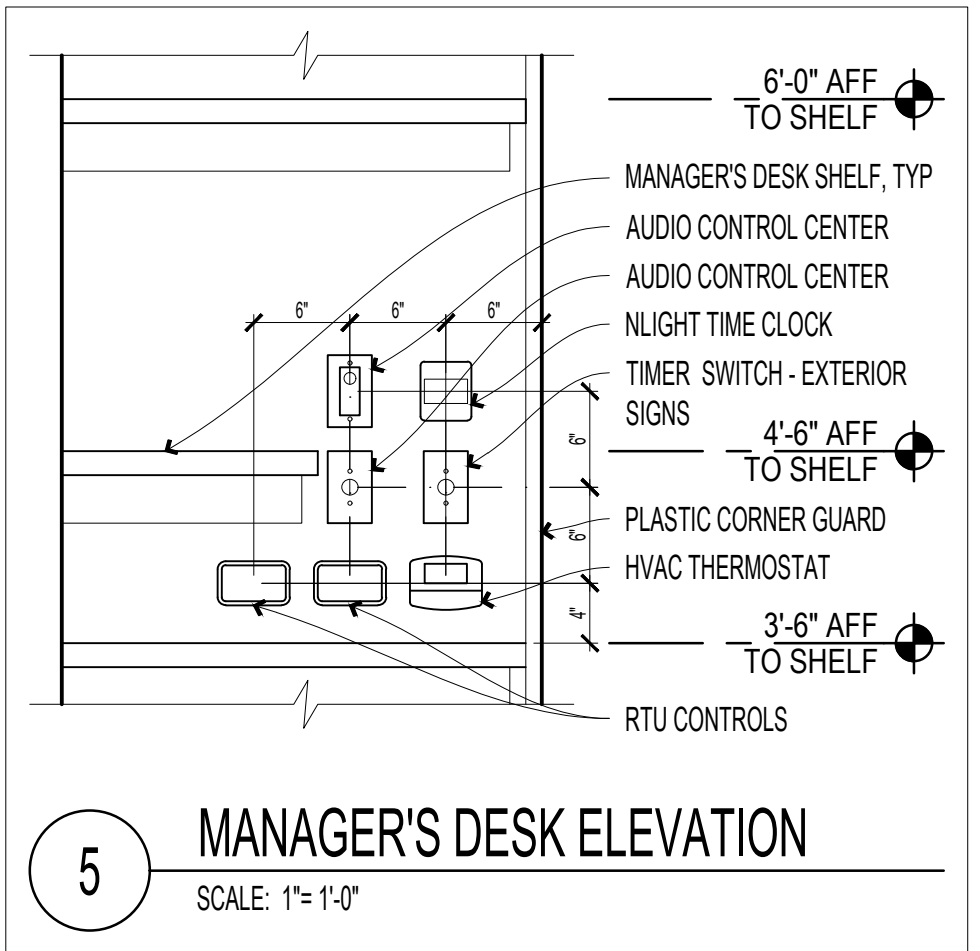
8 KITCHEN INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



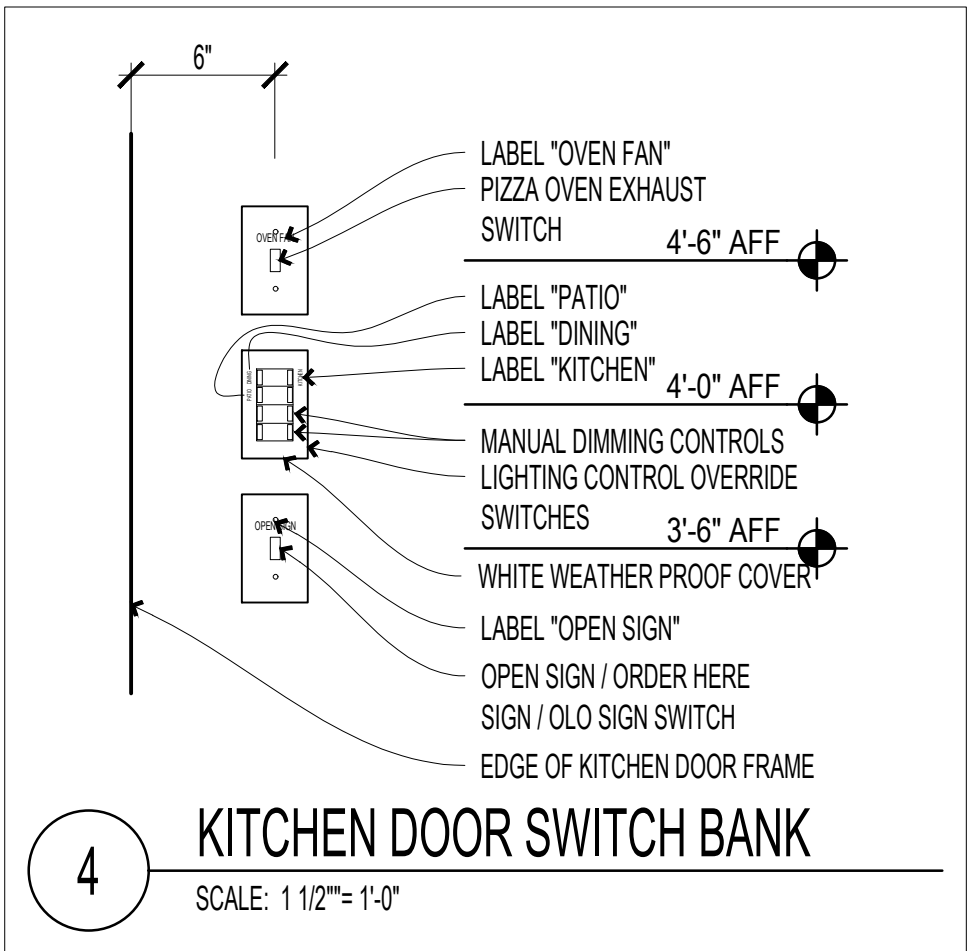
7 KITCHEN INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



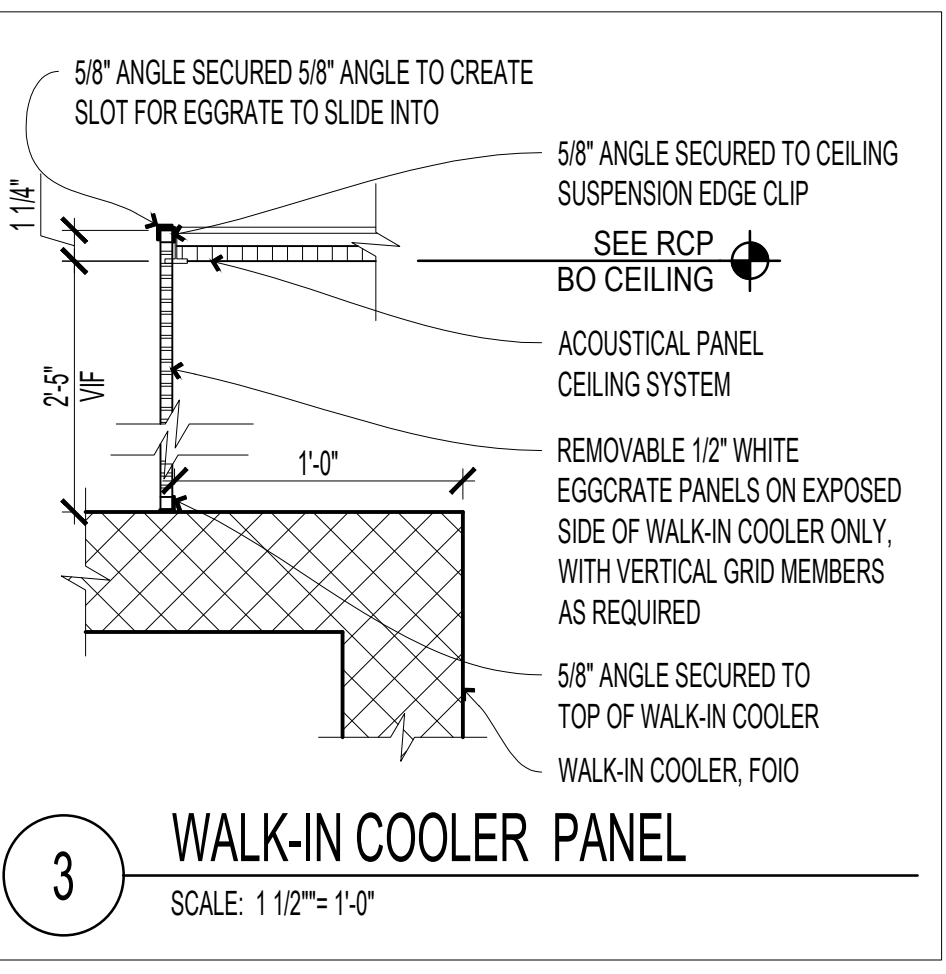
6 KITCHEN INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



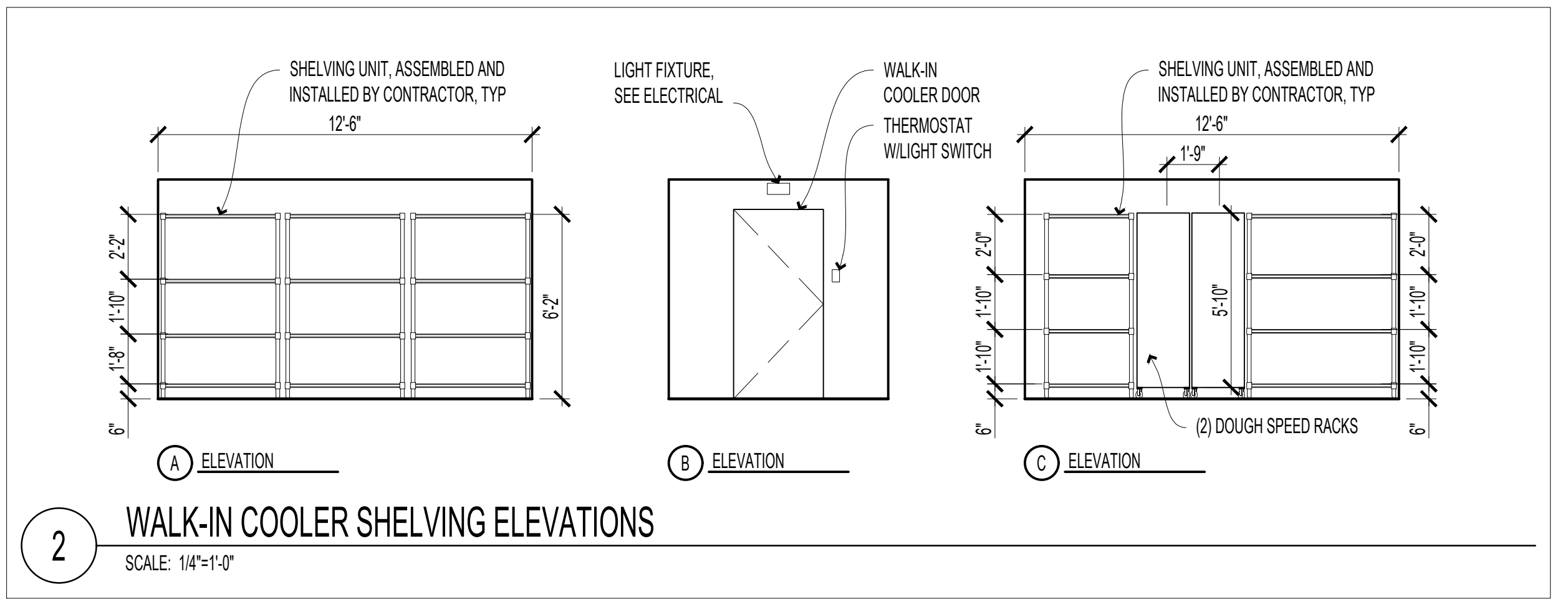
5 MANAGER'S DESK ELEVATION
SCALE: 1"=1'-0"



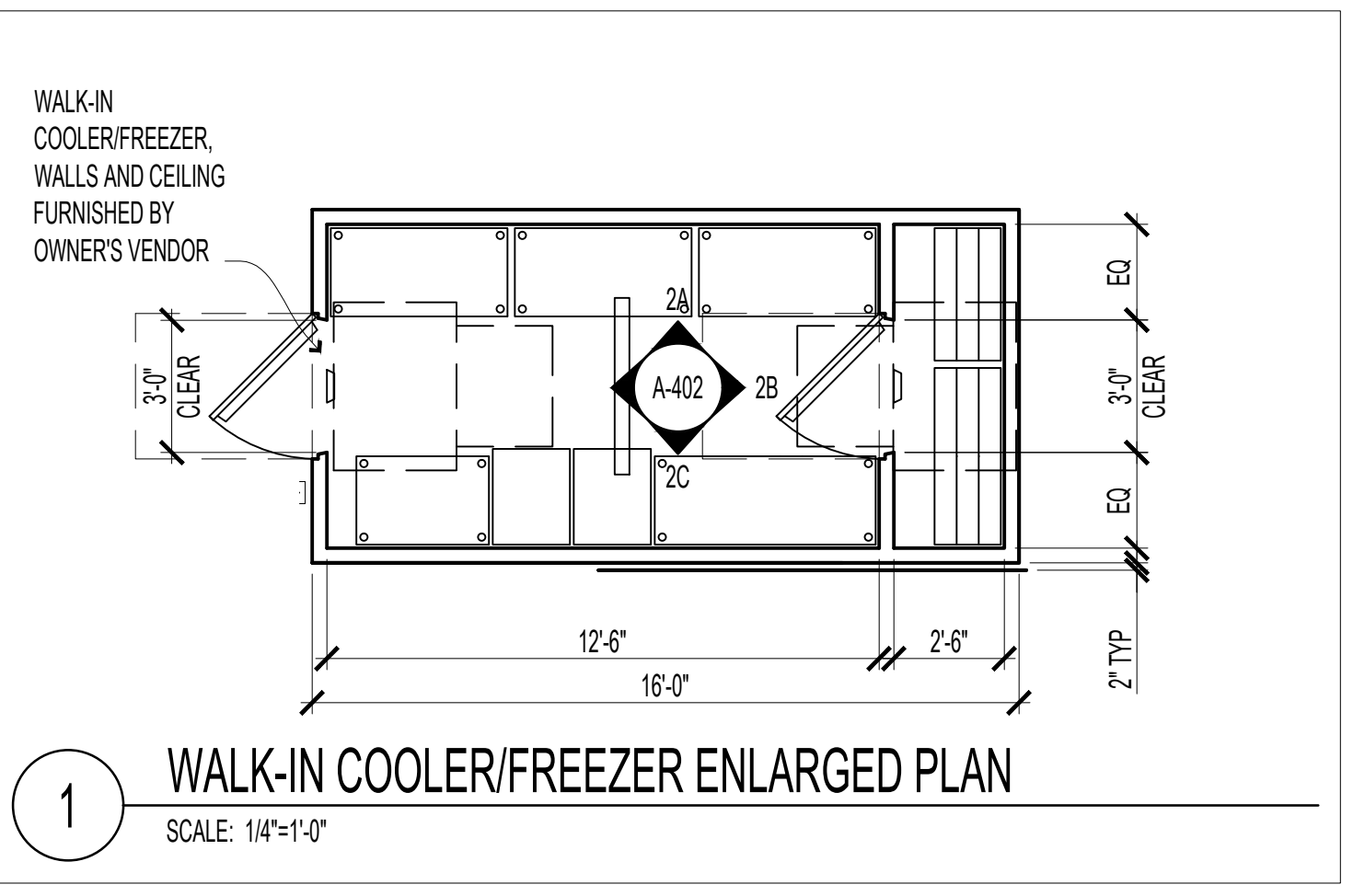
4 KITCHEN DOOR SWITCH BANK
SCALE: 1 1/2"=1'-0"



3 WALK-IN COOLER PANEL
SCALE: 1 1/2"=1'-0"



2 WALK-IN COOLER SHELVING ELEVATIONS
SCALE: 1/4"=1'-0"



1 WALK-IN COOLER/FREEZER ENLARGED PLAN
SCALE: 1/4"=1'-0"

- SHEET NOTES**
- PER FIRE CODE, ALL STORED ITEMS MUST MAINTAIN A 24" CLEARANCE FROM CEILING.
 - SEE REFLECTED CEILING PLAN FOR CEILING HEIGHTS
 - ALL KITCHEN WALLS TO BE FP-100. REFER TO A-131 FOR FLOOR, BASE, AND TRIM FINISHES.
 - SEE ELECTRICAL SHEETS FOR OUTLET LOCATIONS

MOD

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9335 REGISTERED ARCHITECT
MARTIN LEE HILL
STATE OF WASHINGTON

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ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1
PERMIT SET 10.15.21

A-711
INTERIOR ELEVATIONS
KITCHEN

DESIGN CODES AND LOADING:
INTERNATIONAL BUILDING CODE (2018 EDITION)

LATERAL LOADS:
WIND: V35=98 MPH, EXP B, Kzt=1.00
SEISMIC: S_s=1.271, S₁=0.443, S_{ds}= 1.017, S_{d1}= N/A, I_e=1.0
RISK CATEGORY II
SEISMIC SOIL SITE CLASS D
SEISMIC DESIGN CATEGORY D

GENERAL:

THE INTERNATIONAL BUILDING CODE AND STANDARDS SHALL GOVERN ALL MATERIALS AND WORKMANSHIP.

ALL TEMPORARY SHORING OR BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE DRAWINGS REFLECT THE FINAL FINISHED CONDITION OF THE STRUCTURE.

THESE DRAWINGS ARE NOT INTENDED TO SHOW EACH AND EVERY CONDITION, BUT INDICATE THE GENERAL CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY DETAILED, SIMILAR CONDITIONS SHALL BE USED AT THE DISCRETION AND APPROVAL OF THE ARCHITECT AND ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR ALL JOB SITE SAFETY AS WELL AS ALL MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION TO SAFELY PERFORM THE WORK. A/E ENGINEERS HAS NO EXPERTISE IN NOR HAS BEEN RETAINED TO PROVIDE REVIEW OF THE CONTRACTORS SAFETY PRECAUTIONS AS THEY RELATE TO THE CONSTRUCTION OF THIS PROJECT.

IF ANY ERROR OR OMISSION APPEARS IN THESE DRAWINGS, SPECIFICATIONS, OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF SUCH OMISSION OR ERROR BEFORE PROCEEDING WITH THE WORK, OR ACCEPT FULL RESPONSIBILITY FOR THE COST TO RECTIFY SAME. VERIFY AND COORDINATE OPENINGS IN FLOORS, WALLS AND ROOF WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

THE ARCHITECTURAL DRAWINGS SHALL BE REFERENCED FOR WALLS, FINISHES AND DIMENSIONS. DIMENSIONS PROVIDED ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE ARCHITECTURAL DRAWINGS.

DRAWINGS ARE NOT TO BE SCALED.

SHOP DRAWINGS:

SHOP DRAWINGS ARE SPECIFICALLY REQUIRED FOR THE FOLLOWING ITEMS.

- NONE

THESE DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW. THE REVIEW WILL BE FOR THE DESIGN INTENT ONLY. THE SHOP DRAWINGS SHALL BE SUBMITTED BEFORE PROCEEDING WITH FABRICATION AND SHALL ALLOW TWO WEEKS MINIMUM FOR REVIEW. WE WILL REVIEW ONLY ONE REPRODUCIBLE SET AND ONE COPY TO BE RETAINED BY A/E.

CONVENTIONAL STRUCTURAL LUMBER:

STRUCTURAL WOOD GRADES:
JOISTS-----H.F. #2,
BEAMS AND POSTS-----H.F. #1,
STUDS-----H.F. #2 OR BETTER.

GENERAL REQUIREMENTS:
ALL TIMBER DIMENSIONS NOTED ARE NOMINAL.

ALL WOOD ADJACENT TO OR WITHIN 1" OF CONCRETE OR CMU OR WITHIN 6" OF EARTH SHALL BE TREATED WITH AN APPROVED PRESERVATIVE.

MILD STEEL PLATE WASHERS ARE REQUIRED AT ALL BOLTS AND NUTS BEARING ON WOOD EXCEPT THAT 1/4" X 3" X 3" PLATE WASHERS SHALL BE PROVIDED AT SILL PLATES IN 4" WIDE WALLS AND 1/4"X3"X4-1/2" WASHERS AT 6" WIDE WALLS. PLATE WASHER MUST BE LOCATED SUCH THAT GAP TO PLYWOOD SHEATHING DOES NOT EXCEED 1/2". CAST IN PLACE HEADED BOLTS FOR SILL PLATES TO BE TIED INTO THE REINFORCING SO THAT THEY EXTEND PERPENDICULAR FROM SURFACE, DO NOT "WET SET" BOLTS.

ALL MINIMUM NAILING SHALL MEET THE REQUIREMENTS OF TABLE 2304.10.1 OF THE IBC U.N.O. ALL NAILS ARE TO BE 'COMMON' (10d NAIL DIAMETER TO BE 0.148", 16d DIAMETER TO BE 0.162").

ALL LAG AND WOOD SCREWS TO BE THREADED FULL LENGTH OF THE PORTION EMBEDDED INTO THE WOOD UNLESS SPECIFICALLY ALLOWED OTHERWISE WHEN THEY SHALL BE 'FULL BODIED' LAGS ABOVE THE THREADS. FOR LAG SCREWS OVER 3/8" DIAMETER PROVIDE A PILOT HOLE APPROXIMATELY 65 PERCENT THE DIAMETER OF THE LAG AT THE ROOT OF THE THREADED PORTION. ALL LAG AND WOOD SCREWS MUST BE 'TURNED' FOR INSTALLATION DO NOT DRIVE INTO PLACE.

BOLTS, SCREWS, LAGS AND NAILS PLACED IN PRESERVATIVE TREATED TIMBER SHALL BE HOT DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL. ALL CONNECTORS IN CONTACT WITH PRESERVATIVE TREATED LUMBER SHALL HAVE AS A MINIMUM ZINC COATED GALVANIZED STEEL PER ASTM A653 TYPE G85 OR EQUIVALENT.

ALL FRAMING CONNECTORS NOTED ARE PER SIMPSON STRONG TIE COMPANY INC. OR ENGINEER APPROVED EQUAL. FOLLOW ALL MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.

ALL TREATED WOOD SHALL BE BRANDED WITH A QUALITY CONTROL AGENCY MARK BY AMERICAN WOOD PRESERVERS BUREAU OR EQUAL.

STANDARD FRAMING REQUIREMENTS:
A MINIMUM OF TWO CRIPPLE STUDS SHALL BE USED UNDER EACH SIDE OF ALL 4x HEADERS, U.N.O.

A MINIMUM OF THREE STUDS ARE REQUIRED UNDER ALL 6x BEAM, GLB, OR GIRDER TRUSS, U.N.O.

INTERIOR BEARING WALLS ARE TO BE 2x4 @ 16' O.C. U.N.O.

EXTERIOR STUD WALLS ARE TO BE 2x6 @ 16' O.C., U.N.O.

SIMPSON'S 'PC' CONNECTOR SHALL BE USED FOR BEAM TO POST CONNECTION WHERE BEAM SPAN IS 4'-0" OR GREATER.

ALL TOP PLATE SPLICES SHALL BE EITHER A SIMPSON ST2215 OR 4'-0" MINIMUM LAPPED PLATES WITH (10) 16d EACH SIDE OF SPLICE.

SPECIAL INSPECTIONS:

GENERAL REQUIREMENTS:
ALL SPECIAL INSPECTIONS SHALL MEET THE REQUIREMENTS OF THE 2018 IBC, CHAPTER 17.

ALL INSPECTIONS AS REQUIRED BY SECTION 110 OF THE 2018 INTERNATIONAL BUILDING CODE ARE REQUIRED. INSPECTIONS SPECIFIED IN THESE NOTES ARE IN ADDITION TO THESE INSPECTIONS.

CITY INSPECTION IS NOT A SUBSTITUTE FOR SPECIAL INSPECTION.

ANY WORK WHICH HAS BEEN COVERED BUT NOT PROPERLY INSPECTED BY THE SPECIAL INSPECTOR AND/OR THE CITY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.

WHERE SPECIFICALLY REQUIRED, CONTINUOUS INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK. THIS MAY BE A REQUIREMENT OF THE BUILDING CODE / LOCAL JURISDICTION OR THE MANUFACTURER.

THE SPECIAL INSPECTOR MUST BE CERTIFIED TO PERFORM THE TYPES OF INSPECTION SPECIFIED AND SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND INFORMING THE SPECIAL INSPECTOR OR CITY INSPECTOR AT LEAST ONE WORKING DAY BEFORE THE WORK IS TO BE PERFORMED UNLESS OTHER CONDITIONS ARE AGREED UPON.

REQUIREMENTS OF THE SPECIAL INSPECTOR:
THE SPECIAL INSPECTOR MUST WORK UNDER THE SUPERVISION OF A WASHINGTON LICENSED CIVIL ENGINEER.

THE SPECIAL INSPECTOR MUST PERSONALLY BE FAMILIAR WITH THE DRAWINGS AND MUST PERSONALLY OBSERVE ALL OF THE WORK REPORTED ON.

THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING DEPARTMENT AND ENGINEER. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF NOT CORRECTED, TO THE BUILDING DEPARTMENT AND ENGINEER.

THE FINAL REPORT SHALL BE SIGNED BY A WASHINGTON LICENSED CIVIL ENGINEER AND SHALL STATE THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF IBC.

SPECIFIC SPECIAL INSPECTIONS REQUIRED:

- NONE

DISCLAIMER:

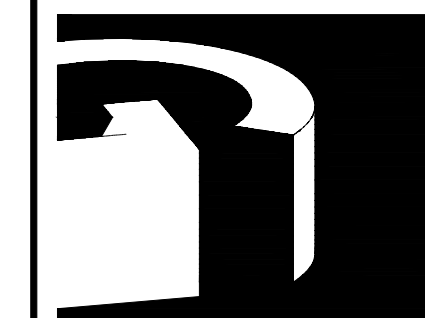
THESE DOCUMENTS AND THE DESIGN ARE SPECIFIC TO THIS PROJECT ONLY AND MAY NOT BE REUSED IN ANY WAY WITHOUT WRITTEN APPROVAL OF A/E. IT IS OUR INTENT THAT THIS DESIGN MEETS THE NORMAL STANDARD OF CARE WITHIN THIS INDUSTRY. NO OTHER WARRANTY IS PROVIDED OR IMPLIED.

OWNER



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SEAL



10/14/2021

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KIRKLAND, WA 98033

ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

GENERAL NOTES & ABBREV.

S-001

GENERAL ABBREVIATIONS:

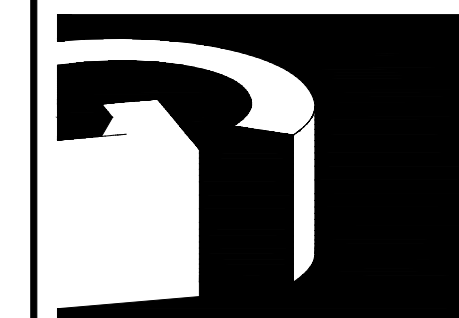
AB, A.B.	ANCHOR BOLT	C.J, C.J.	CONTRACTUAL JOINT	EJ, E.J.	EXPANSION JOINT	GRD	GRADE	LVL	MICROLLAM BEAM	PT, P.T.	PRESSURE TREATED	T&G	TONGUE AND GROOVE
ABV.	ABOVE	CL	CENTER LINE	EMBED.	EMBEDMENT	GWB	GYPSSUM WALL	MAS.	MASONRY	P/T	POST TENSIONED	THR'D	THREAD(ED)
ADD'L	ADDITIONAL	CLR	CLEAR	EL, ELEV.	ELEVATION	BOA	BOARD	MAT'L	MATERIAL	QTY	QUANTITY	TJ	TRUSS JOIST
ADJ.	ADJACENT	CMU	CONC. MASONRY UNIT	EN, E.N.	EDGE NAIL	HDR	HEADER	MB	MACHINE BOLT	REF.	REFERENCE		MACMILLAN
ALT.	ALTERNATE	COL.	COLUMN	ENG	ENGINEER	HF, H.F.	HEM-FIR		(A307)	REINF.	REINFORCEMENT	TMFRY	TEMPORARY
APPRX.	APPROXIMATE	CONC.	CONCRETE	EQ	EQUAL	HGR	HANGER	MD	MID-DEPTH	REQ'D	REQUIRED	TN, T.N.	TOE NAIL
ARCH	ARCHITECTURAL	CONN.	CONNECT(ION)	ES, E.S.	EACH SIDE	HORZ.	HORIZONTAL	MRF	MOMENT RESISTING	RO, R.O.	ROUGH OPENING	T.O.	TOP OF
@	AT	CONST.	CONSTRUCTION	EXIST	EXISTING	HSB	HIGH STRENGTH BOLT		(A325 UNO)	SCHD	SCHEDULE	TRANS.	TRANSVERSE
BOT.	BOTTOM	CONT.	CONTINUOUS	EXT.	EXTERIOR			MFR	MANUFACTURER	SHT	SHEET	TYP.	TYPICAL
BF, B.F.	BRACED FRAME	CTSK	COUNTERSINK	FFE	FINISH FLOOR ELEV.		HEIGHT	MTL	METAL	SHTG	SHEATHING	UNO	UNLESS OTHERWISE NOTED
BEL.	BELOW	d	PENNY (NAILS)	FAB.	FABRICATION	IF, I.F.	INSIDE FACE	(N)	NEW MEMBER	SIM.	SIMILAR		
BLDG	BUILDING	DET.	DETAIL	FND	FOUNDATION	INT.	INTERIOR	NS, N.S.	NEAR SIDE	SKW	SKEN(ED)	VERT.	VERTICAL
BLKG	BLOCKING	DBL	DOUBLE	FIN.	FINISH(ED)	JST	JOIST	NTS	NOT TO SCALE	50G	SLAB ON GRADE	VFY	VERIFY
BN, B.N.	BOUNDARY NAIL	DF, D.F.	DOUGLAS FIR	FLG	FLANGE	JT	JOINT	OC, O.C.	ON CENTER	5PC	SPACING	W/	WITH
BNDRY	BOUNDARY	Ø, D.I.A.	DIAMETER	FLR	FLOOR	K	KIPS (1,000 POUNDS)	OF, O.F.	OUTSIDE FACE	50.	SQUARE	WH5	WELDED HEADED
BH	BEAM	DIAG.	DIAGONAL	FN, F.N.	FACE NAIL	LAT.	LATERAL	OH	OVER HANG	5S	SELECT STRUCTURAL	STUD	STUD
B.O.	BOTTOM OF	DIAPH.	DIAPHRAGM	FO, F.O.	FACE OF	LDGR	LEDGER	OPNG	OPENING	STD	STANDARD	WP	WORK POINT
BRDG	BRIDGE (ING)	ds	DITTO (DO OVER)	FRMG	FRAMING	LF	LINEAL FEET	PAR	PARALLEL	STGR	STAGGER	WS	WESTERN SERIES
BRG	BEARING	d	DEPTH	FS, F.S.	FAR SIDE	LLH	LONG LEG HORIZ.	P/C	PRECAST CONCRETE	STIFF.	STIFFENER	WTS	WELDED THREADED
B/W	BETWEEN	DNG	DRAWING	FTG	FOOTING	LLV	LONG LEG VERTICAL	PL	PLATE	STRUP	STIRRUP		STUD
CAM	CAMBER(ED)	DNL	DOWEL	GA	GAGE	LS	LAG SCREW	PERP.	PERPENDICULAR	STL	STEEL	W/F	WELDED WIRE FABRIC
CANT.	CANTILEVER(ED)	(E)	EXISTING MEMBER	GALV.	GALVANIZED	L5L	TIMBER STRAND	PL	PLYWOOD	STRUC.	STRUCTURE(AL)	X-STG	EXTRA STRONG
CG	CENTER OF GRAVITY	EA	EACH	GB, G.B.	GRADE BEAM	BEAM	BEAM	PLYWD	PLYWOOD	SYM.	SYMMETRICAL	XX-STG	DOUBLE EXTRA STRONG
CIP	CAST IN PLACE	EF, E.F.	EACH FACE	GLB	GLU-LAM. BEAM	LT WT	LIGHT WEIGHT	PSL	PARALLAM BEAM	T	TOP		STRONG

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SEAL



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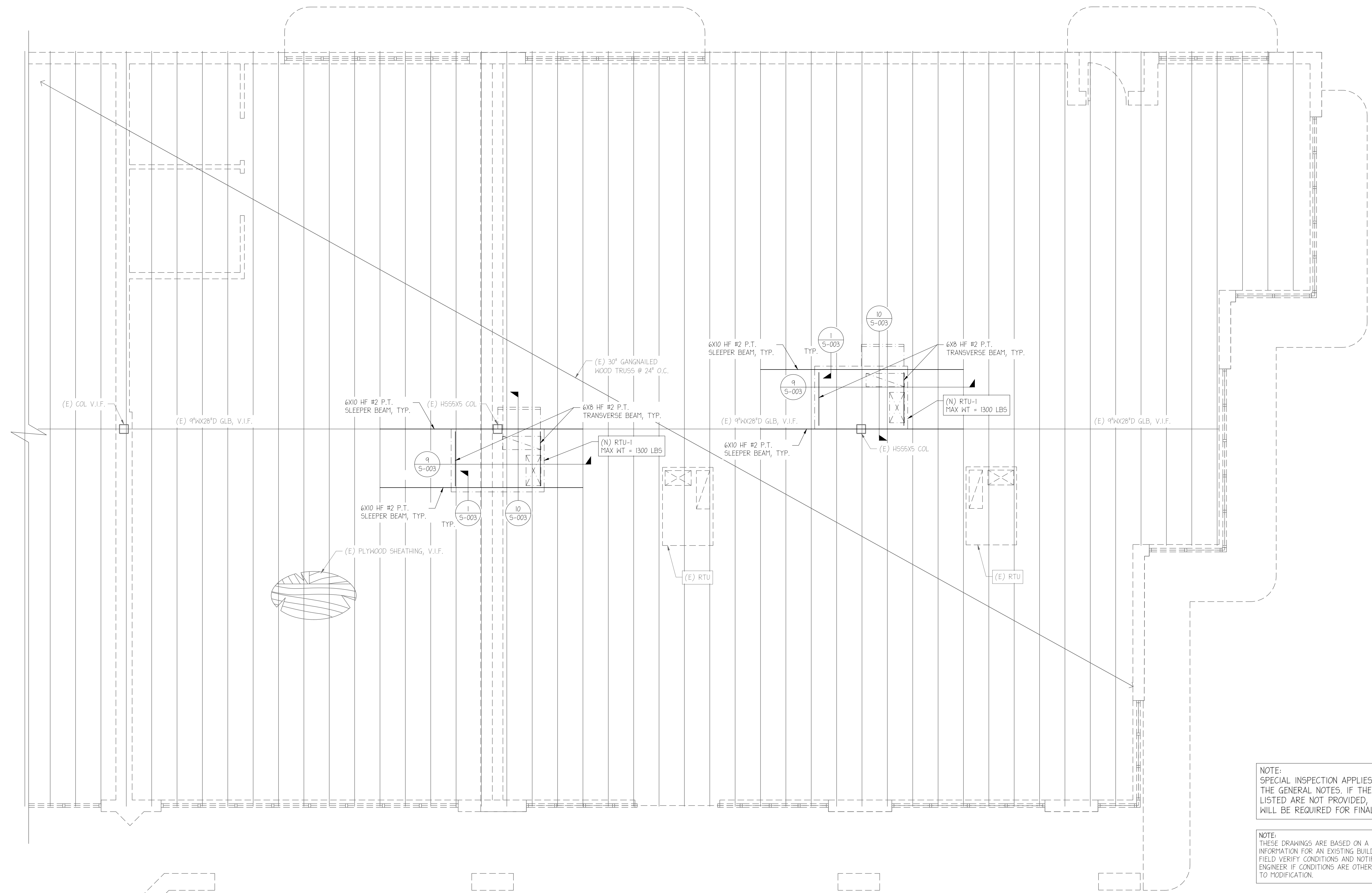
ROOF FRAMING PLAN

S-002

NOTE:
SPECIAL INSPECTION APPLIES TO THIS PROJECT PER THE GENERAL NOTES. IF THE SPECIAL INSPECTIONS LISTED ARE NOT PROVIDED, TESTING OR REWORK WILL BE REQUIRED FOR FINAL SIGN OFF.

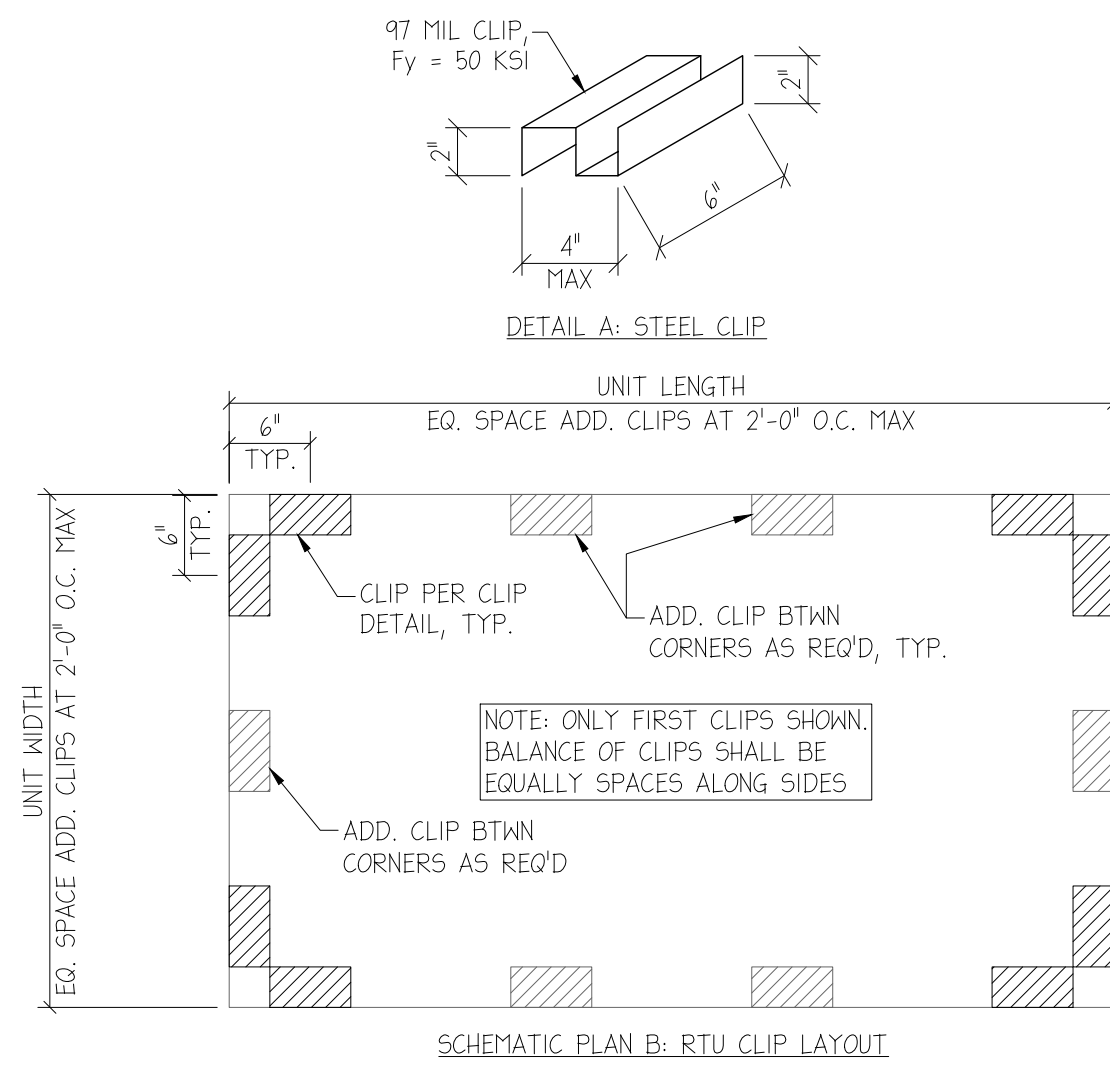
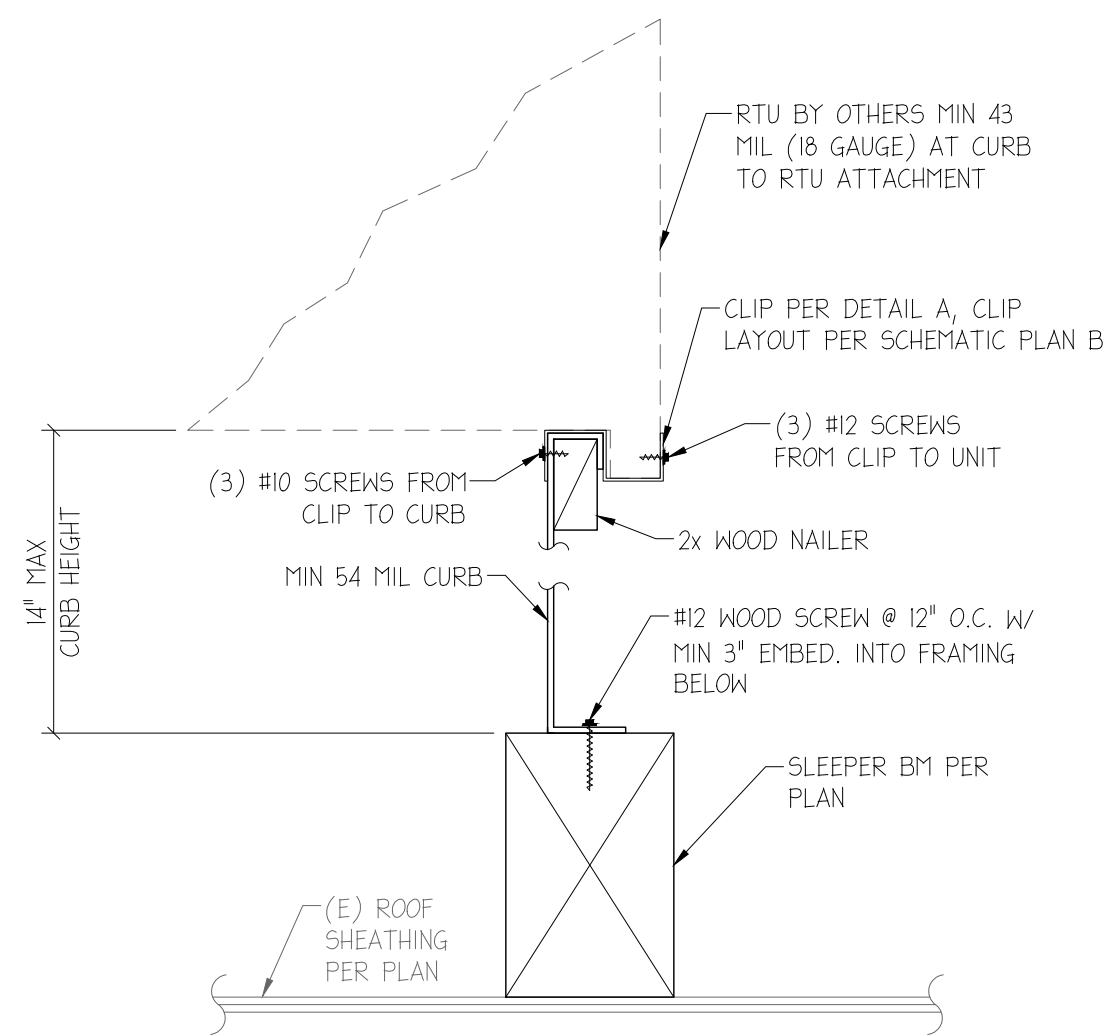
NOTE:
THESE DRAWINGS ARE BASED ON A LIMITED AMOUNT OF INFORMATION FOR AN EXISTING BUILDING. CONTRACTOR MUST FIELD VERIFY CONDITIONS AND NOTIFY ARCHITECT AND ENGINEER IF CONDITIONS ARE OTHER THAN AS SHOWN PRIOR TO MODIFICATION.

NOTE:
ALL DIMENSIONS SHOWN ON THESE STRUCTURAL PLANS ARE FOR GENERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.



ROOF FRAMING PLAN

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

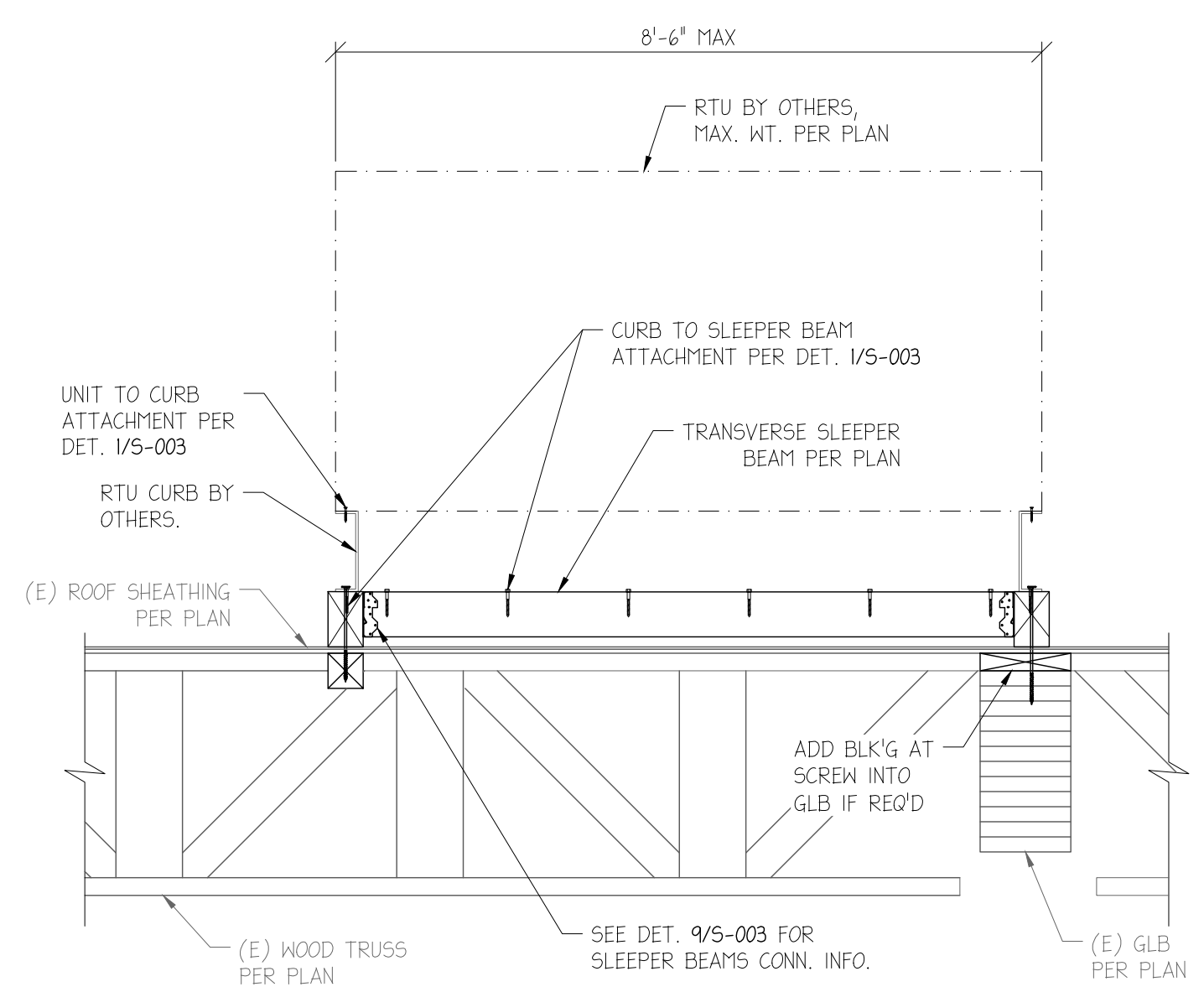
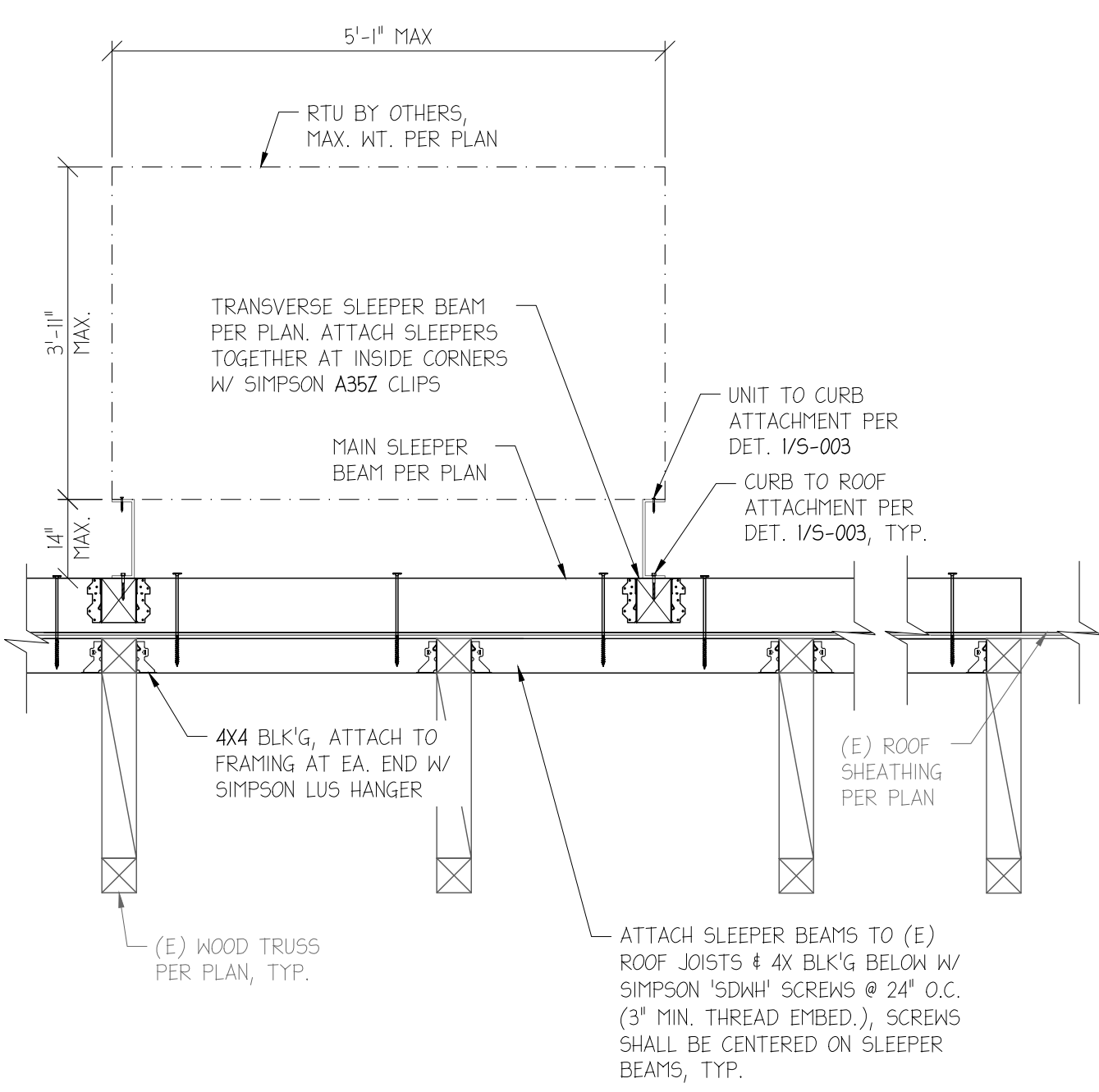


1 TYPICAL CURB ATTACHMENT
S-003

SCALE: 1/2" = 1'-0"

NOTE: ALL STEEL EXPOSED TO MOISTURE SHALL BE HOT DIPPED GALVANIZED OR ZINC COATED.

NOTE: ALL STEEL EXPOSED TO MOISTURE SHALL BE HOT DIPPED GALVANIZED OR ZINC COATED.



9 RTU SUPPORTED ON SLEEPER BEAMS
S-003

SCALE: N.T.S.

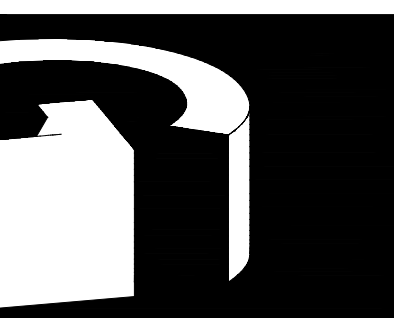
10 SECTION AT RTU
S-003

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



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13228 NE 20TH ST, SUITE 100
BELLEVUE, WA 98005
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JOB NO: 21299

SEAL



10/14/2021

**DOWNTOWN
KIRKLAND**
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

DETAILS

S-003

GENERAL NOTES

GENERAL:

- COORDINATE MECHANICAL WORK WITH ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL AND LANDSCAPE WORK SHOWN ON OTHER CONTRACT DOCUMENTS. PROVIDE ADDITIONAL OFFSETS FOR COORDINATED INSTALLATION WHERE REQUIRED.
- COORDINATE HVAC, PLUMBING AND FIRE PROTECTION WORK PRIOR TO INSTALLATION. DUCTWORK AND EQUIPMENT ACCESS TAKES PRECEDENCE OVER PIPING FOR AVAILABLE SPACE.
- WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL."
- COORDINATE EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
- PROVIDE MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
- LOCATE VALVES, WATER HAMMER ARRESTERS, CLEANOUTS, DAMPERS, CONTROLS AND SIMILAR COMPONENTS SO THAT THEY ARE ACCESSIBLE. PROVIDE ACCESS DOORS FOR MECHANICAL EQUIPMENT INSTALLED BEHIND WALLS, ABOVE INACCESSIBLE CEILINGS AND BELOW FLOORS. COORDINATE ACCESS DOOR LOCATIONS WITH ARCHITECT/ENGINEER. INSTALL TAG ON CEILING GRID FRAME TO INDICATE LOCATION AND TYPE OF EQUIPMENT THAT REQUIRES MAINTENANCE. PROVIDE 16 GA. STEEL, FLUSH TYPE ACCESS DOOR WITH CONCEALED HINGE AND SLOT SCREWDRIVER TYPE CAM LATCH. PROVIDE FACTORY PRIMED IN PAINTED SURFACE AREAS FOR FIELD PAINTING. PROVIDE STAINLESS STEEL FOR ALL OTHER AREAS. PROVIDE UL LISTED AND LABELED DOOR WHERE FIRE-RESISTANCE RATING IS INDICATED ON DRAWINGS. ACCESS DOOR SHALL BE SIZED SO THAT ADJACENT EQUIPMENT IS ACCESSIBLE. PROVIDE ACUDOR, ELMODOR, MILCOR, OR APPROVED.
- COORDINATE ATTACHMENTS TO STRUCTURE TO VERIFY THAT ATTACHMENT POINTS ON EQUIPMENT AND STRUCTURE CAN ACCEPT SEISMIC, WEIGHT, AND OTHER LOADS IMPOSED.
- REFER TO TYPICAL DETAILS PROVIDED IN THIS DWG SET FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR CONFORMANCE WITH DETAILS.
- LOCATIONS AND SIZES OF FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED. INCLUDE IN THE COST OF MECHANICAL WORK, CUTTING, CORING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, FLOORS AND ROOFS AS REQUIRED TO ACCOMMODATE WORK AS INDICATED IN THE MECHANICAL CONTRACT DOCUMENTS, UNLESS SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS.
- PROVIDE ELASTOMERIC FOAM MATERIAL ON MECHANICAL EQUIPMENT THAT PRESENT A SAFETY HAZARD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
- CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSE BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT. BEFORE SUBSTANTIAL COMPLETION, CLEAN EQUIPMENT, FIXTURES, EXPOSED DUCTS, PIPING AND SIMILAR ITEMS.
- PROVIDE EQUIPMENT THAT FITS INTO THE SPACE ALLOTTED AND ALLOWS ADEQUATE ACCEPTABLE CLEARANCE FOR INSTALLATION, REPLACEMENT, ENTRY, SERVICING AND MAINTENANCE. COORDINATE WITH OTHER TRADES TO ENSURE NO CONFLICT WITH REQUIRED CLEARANCES.
- PROVIDE OFFSETS IN PIPING WHERE PLUMBING/PIPING WALL IS LOCATED DIRECTLY ABOVE STRUCTURE. OFFSET PIPING INTO CASEWORK OR SHAFT TIGHT TO WALL AND BACK INTO WALL ONCE BELOW STRUCTURE. REFER TO STRUCTURAL DRAWINGS.
- BUILDING SPACE IS LIMITED. STRONG ATTENTION TO DETAIL AND CARE MUST BE TAKEN WHEN DEVELOPING SHOP DRAWING SO ROUTING IS COORDINATED WITH OTHER DISCIPLINES.
- MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- MECHANICAL EQUIPMENT, PACKAGED UNITS, CONTROL PANELS, MOTOR STARTER, MOTOR CONTROLLERS, VARIABLE FREQUENCY DRIVES AND SIMILAR EQUIPMENT SHALL CARRY A SHORT CIRCUIT CURRENT RATING (SCCR) EQUAL TO OR GREATER THAN AVAILABLE FAULT CURRENT DELIVERED FROM ELECTRICAL SYSTEM. INCLUDE VISIBLE FACTORY NAMEPLATE FOR SUCH EQUIPMENT INDICATING SCCR OF EQUIPMENT IN ACCORDANCE WITH UL 1995 AND UL 508A. HVAC/SHEET METAL:

- DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
- PROVIDE TEMPORARY COVERS OVER OPEN ENDS OF EQUIPMENT AND DUCTWORK DURING CONSTRUCTION.
- PROVIDE MANUAL VOLUME DAMPER FOR EACH DIFFUSER, REGISTER, AND GRILLE.
- PROVIDE DUCT ACCESS DOORS AT DUCT SMOKE DETECTORS, BACKDRAFT DAMPERS, MOTORIZED CONTROL DAMPERS, FIRE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, DUCT MOUNTED COILS, DUCT AIRFLOW STATIONS AND LOUVER PLENUMS.
- PROVIDE THE FOLLOWING MINIMUM METAL BRANCH DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES, UNLESS NOTED TO USE LARGER SIZE ON DRAWINGS: SEE FLEX SIZE SCHEDULE ON SCHEDULE SHEET.

5.1.	6"Ø:	100 CFM
5.2.	8"Ø:	200 CFM
5.3.	10"Ø:	300 CFM
5.4.	12"Ø:	450 CFM
5.5.	14"Ø:	600 CFM
5.6.	16"Ø:	750 CFM

FIRE PROTECTION:

- PAINT ALL EXPOSED AND VISIBLE FIRE SPRINKLER PIPING BLACK. DO NOT PAINT FIRE SPRINKLER HEADS.
- MOTORS: COMPLY WITH MINIMUM FULL LOAD EFFICIENCIES LISTED IN THE STATE ENERGY CODE.
- PIPING AND DUCT INSULATION: COMPLY WITH THICKNESS AND TYPES LISTED IN THE STATE ENERGY CODE.
- DUCT SEALING: SEAL DUCT TRANSVERSE JOINTS AND LONGITUDINAL SEAMS PER STATE ENERGY CODE.
- RECORD DRAWINGS: PROVIDE PER STATE ENERGY CODE.
- OPERATION AND MAINTENANCE MANUALS: PROVIDE PER THE STATE ENERGY CODE.
- SYSTEM BALANCING: PROVIDE PER THE STATE ENERGY CODE.
- MECHANICAL SYSTEMS COMMISSIONING: PROVIDE PER THE STATE ENERGY CODE.
- THIS BUILDING AND ITS ENERGY SYSTEMS HAVE BEEN DESIGNED TO COMPLY WITH THE STATE ENERGY CODE. CONTRACTOR IS RESPONSIBLE FOR CORRECT INSTALLATION OF ENERGY CONSERVATION MEASURES.
- BUILDING PRESSURE TESTING: COORDINATE PHASING OF BUILDING ENVELOPE LEAKAGE TESTING WITH MECHANICAL SYSTEM SCOPES OF WORK. TEMPORARILY CAP SYSTEMS AS REQUIRED TO FACILITATE LEAKAGE TESTING SCOPE OF WORK.

NON-STRUCTURAL MECHANICAL COMPONENTS:

- THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION, EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID.
- ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-10, EXCLUDING CHAPTER 14 AND APPENDIX 11A, IF REQUIRED.
- CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS, IF REQUIRED.
- HANGERS AND BRACING FOR THE MECHANICAL SYSTEMS SHALL BE DESIGNED AND PROVIDED BY THE MECHANICAL CONTRACTOR. REFER TO CONTRACTOR SHOP DRAWINGS FOR LOCATIONS OF EQUIPMENT AND HUNG MECHANICAL SYSTEMS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG MECHANICAL SYSTEMS WITH THE GENERAL CONTRACTOR AND OTHER TRADES THAT MAY BE IMPACTED.
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE FOLLOWING CODES:

2018 INTERNATIONAL BUILDING CODE
2018 UNIFORM PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2020 NATIONAL ELECTRIC CODE
2018 WASHINGTON STATE ENERGY CODE
2018 INTERNATIONAL FIRE PREVENTION CODE

HOOD & GREASE EXHAUST DUCT NOTES

- EXHAUST HOODS SHALL BE CONSTRUCTED OF 16 GAUGE BLACK STEEL OR 18 GA. STAINLESS STEEL WITH ALL EXTERNAL SEAMS AND JOINTS CONTINUOUSLY WELDED 100% LIQUID TIGHT. EXHAUST HOODS SHALL MEET OR EXCEED THE REQUIREMENTS OF NFPA 96, ALL LOCAL CODES AND SHALL BEAR THE NSF SEAL OF APPROVAL.
- ALL LIGHTS USED IN THE HOODS SHALL BE U.L. LISTED FOR CANOPY HOOD USE AND OF THE INCANDESCENT TYPE AND SHALL BE WIRED TO COME ON THRU A SWITCH LOCATED ON THE HOOD FACE.
- THE EXHAUST HOODS SHALL HAVE ALL STAINLESS STEEL BAFFLE FILTERS AND SHALL HAVE A FIRE ACTUATED DAMPER IN THE MAKE-UP AIR COLLAR.
- THE EXHAUST HOODS SHALL HAVE PREPARED AUTOMATIC U.L. ANSUL FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF THE EXHAUST PLENUM & DUCT AND COOKING SURFACES. FIRE CONTROL CABINETS SHALL ALSO BE PROVIDED AS SHOWN AND SHALL HAVE MICRO SWITCHES FURNISHED AS REQUIRED FOR EQUIPMENT SHUT OFF. THERE SHALL BE A MANUAL PULL STATION NEAR THE EXIT DOOR AND MINIMUM OF 10'-0" FROM THE HOOD. (MUST BE FLUSH MOUNTED, CONDUIT RUN IN THE WALL).
- THE SUPPLY FAN SWITCHES, 40 VA TRANSFORMERS, SUPPLY & EXHAUST FAN STARTERS, THERMAL OVERLOADS AND MECHANICAL GAS VALVE SHALL BE FURNISHED BY THE HOOD MANUFACTURER, AND SUPPLY FAN SWITCHES SHALL BE MOUNTED ON THE HOOD FACES. THE 40 VA TRANSFORMERS AND FAN STARTERS SHALL BE MOUNTED IN THE FIRE CONTROL CABINETS AND THE MECHANICAL GAS VALVE SHALL BE INSTALLED AS SHOWN ON THE PLUMBING DRAWINGS.
- ALL EXHAUST COLLARS AND EXHAUST DUCTWORK ARE SIZED TO MAINTAIN BETWEEN 1500 AND 2000 FPM EXHAUST AIR VELOCITY. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA-96. GREASE EXHAUST DUCTWORK SHALL HAVE ALL SEAMS, JOINTS AND PENETRATIONS CONTINUOUSLY WELDED LIQUID TIGHT.
- ALL HORIZONTAL RUNS OF GREASE EXHAUST DUCT SHALL SLOPE BACK TOWARD THE HOOD AT A SLOPE OF 1/4" PER FOOT. PROVIDE A RESIDUE TRAP AT THE BASE OF EACH VERTICAL RISER.
- PROVIDE U.L. LISTED CLEANOUTS IN GREASE EXHAUST DUCTWORK AT A MINIMUM OF 10'-0" INTERVALS, AT EACH CHANGE OF DIRECTION AND AT EACH RESIDUE TRAP.
- THE DISCHARGE OF THE GREASE EXHAUST FANS SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE.
- ALL GREASE EXHAUST DUCTWORK SHALL HAVE STANDARD OR RADIUS ELBOWS.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WARRANTIES.
- THE FOLLOWING EQUIPMENT SHALL BE PROVIDED BY CAPTIVEAIRE SYSTEMS, FURNISHED AND INSTALLED BY THIS CONTRACTOR:
 - STAINLESS STEEL HOODS AS SPECIFIED ABOVE WITH FIRE PROTECTION SYSTEMS, CONTROLS, STARTERS, FIRE CONTROL CABINETS CLOSURE STRIP AND MECH. GAS VALVE.
- THE FOLLOWING SHALL BE SUPPLIED BY CAPTIVEAIRE AND INSTALLED BY GC:
 - ALL HOODS, HOOD SUPPLY AND EXHAUST FANS WITH ROOF CURBS. PROVIDE ALL HOOD EXHAUST FANS WITH GREASE GUARDS) SUPPLIED BY CAPTIVEAIRE.
 - ALL DUCTWORK BETWEEN HOODS AND FANS - INSTALLED BY GC.
 - WIRING BETWEEN HOODS, FANS AND FIRE SYSTEM - INSTALLED BY GC.
- KITCHEN HOOD TEST AND BALANCE REPORT SHALL BE SUBMITTED TO BUILDING DEPARTMENT PRIOR TO FINAL INSPECTION.
- UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRIC POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF. ACTIVATION OF THE AUTOMATIC FIRE EXTINGUISHING SYSTEM MUST IMMEDIATELY SHUT OFF GAS AND ELECTRIC SUPPLY TO ALL APPLIANCES UNDER THE PROTECTED HOOD. THE PLUMBING CONTRACTOR SHALL PROVIDE A MASTER SOLENOID VALVE IN GAS LINE TO DISCONNECT ALL GAS APPLIANCES. MANUAL GAS AND ELECTRIC RESETS ARE REQUIRED.
- ALL REMOTE MANUAL OPERATING DEVICES SHALL BE IDENTIFIED AS THE "HAZARD PROTECTED" PROVIDE PLAQUE AND SIGN AS REQUIRED BY LOCAL JURISDICTION.
- ONE PLENUM NOZZLE SHALL BE PROVIDE FOR EVERY 10 FEET OF HOOD. REFER TO HOOD DRAWINGS FOR EXACT LOCATION.
- THE HOOD INSTALLING CONTRACTOR SHALL PROVIDE THE LATEST SYSTEM MANUAL AS PROVIDED BY THE MANUFACTURER TO VERIFY THE SYSTEM INSTALLATION.
- NONCOMBUSTIBLE BACK SPLASH TO EXTEND AT LEAST 18" IN ALL DIRECTIONS FROM THE HOOD. 2006 IMC 507.9
- EXTERNAL HOOD JOINTS, SEAMS AND PENETRATIONS FOR TYPE 1 HOODS SHALL BE MADE WITH A CONTINUOUS EXTERNAL LIQUID-TIGHT WILD OR BRAZE TO THE LOWEST OUTERMOST PERIMETER OF THE HOOD.
- PRIOR TO THE USE OF CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED. DUCTS SHALL BE CONSIDERED TO BY CONCEALED WHERE INSTALLED IN SHAFTS OR COVERED BY COATING OR WRAPS THAT PREVENT THE DUCTWORK FROM BEING VISUALLY INSPECTED ON ALL SIDES. THE PERMIT HOLDER SHALL BE RESPONSIBLE TO PROVIDE THE NECESSARY EQUIPMENT AND PERFORM THE GREASE DUCT LEAKAGE TEST. A LIGHT TEXT SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED AND BRAZED JOINTS ARE LIQUID-TIGHT.

OVEN HOOD VENDOR: CAPTIVE AIRE SYSTEMS, REGION 85
PHONE: 425-212-5996v2
CONTACT: JON CLARKE
EMAIL: REG85@CAPTIVEAIRE.COM

NOTE:
EACH HOOD SHALL BEAR THE FOLLOWING APPROVALS:
NSF # 1362, SBCCI # 8469, U.L. CLASSIFICATION # 91G6, NFPA #90A, 90B, 96-101

REFERENCE SYMBOLS

	NEW MECHANICAL WORK
	EXISTING MECHANICAL WORK
	EXISTING MECHANICAL WORK TO BE DEMOLISHED
	ENLARGED PLAN BORDER
	MATCHLINE
	SECTION IDENTIFIER
	DETAIL OR DRAWING IDENTIFIER
	REVISION CLOUD INDICATES WHERE SECTION APPEARS
	INDICATES REVISION & NUMBER
	FLAG NOTE
	EQUIPMENT IDENTIFIER
	POINT OF CONNECTION
	NORTH ARROW
	MECHANICAL ACCESS

Reviewed by J Hawley
City of Kirkland Planning and Building
12/03/2021 12:54:02 PM

Permit and approved plan shall be onsite

DUCTWORK SYMBOLS

	NEW DUCTWORK
	RISE OR DROP DIRECTION OF AIR FLOW
	INTERNALLY LINED DUCT
	MANUAL VOLUME DAMPER
	BACKDRAFT DAMPER
	MOTOR OPERATED DAMPER
	DUCT SMOKE DETECTOR
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	HORIZONTAL FIRE DAMPER
	HORIZONTAL SMOKE DAMPER
	HORIZONTAL COMBINATION FIRE/SMOKE DAMPER
	FLEXIBLE CONNECTION
	UNDERCUT DOOR
	SUPPLY AIR DUCT SECTION
	RETURN OR OUTSIDE AIR DUCT SECTION
	EXHAUST AIR DUCT SECTION
	RECTANGULAR DUCT UP
	RECTANGULAR DUCT DOWN
	ROUND DUCT UP
	ROUND DUCT DOWN
	FLEXIBLE DUCTWORK

DIFFUSER, REGISTER, AND GRILLE SYMBOLS

	AIR DEVICE TAG
	SUPPLY DIFFUSER
	RETURN OR RELIEF GRILLE
	EXHAUST GRILLE
	SIDEWALL GRILLE (SUPPLY), LOUVER (EXHAUST OR RETURN)
	SIDEWALL GRILLE (RETURN OR EXHAUST), LOUVER (OUTSIDE)
	LINEAR GRILLE
	ROUND DIFFUSER

CONTROLS

	ROOM THERMOSTAT
	ROOM SENSOR
	ROOM PRESSURE SENSOR
	ROOM HUMIDITY SENSOR
	ROOM CARBON MONOXIDE SENSOR
	ROOM CARBON DIOXIDE SENSOR
	OCCUPANCY SENSOR
	REMOTE TEST STATION
	VARIABLE FREQUENCY DRIVE
	STARTER OR STARTER/DISCONNECT
	DIRECT DIGITAL CONTROL PANEL
	DIFFERENTIAL PRESSURE TRANSMITTER
	CONTROL WIRING
	SWITCH

MECHANICAL SHEET INDEX

M-001	MECHANICAL LEGEND AND GENERAL NOTES
M-111	MECHANICAL FLOOR PLAN
M-131	MECHANICAL ROOF PLAN
M-501	MECHANICAL DETAILS
M-502	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES
SP-911	MECHANICAL SPECIFICATIONS

HVAC ABBREVIATIONS

A	AMPS
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
DIA	DIAMETER
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
ERTU	EXISTING ROOF TOP UNIT FAN
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
*F	DEGREE FAHRENHEIT
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT	FOOT OR FEET
HP	HORSEPOWER
KW	KILOWATT
HZ	HERTZ
IN	INCH
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB TEMPERATURE
MAX	MAXIMUM
MBH	1,000 BTU'S PER HOUR
MCA	MAXIMUM CIRCUIT CAPACITY
MIN	MINIMUM
MCCP	MAXIMUM OVERCURRENT PROTECTION
N T S	NOT TO SCALE
OA	OUTSIDE AIR
PH	PHASE
REL	RELIEF
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SD	SPLITTER DAMPER
SHC	SENSIBLE HEAT CAPACITY
SQ. FT.	SQUARE FEET
T	THERMOSTAT

FIELD VERIFY ALL CONDITIONS

NOTE! AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, PIPING LAYOUTS AND DUCT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF CONDUITS, DUCTS, OR PIPING, AND START OF INSTALLATION OF SAME (INCLUDING SPRINKLER PIPING WHEN PRESENT ON JOB). ANY INSTALLATION OR CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER, ARCHITECT AND/OR GENERAL CONTRACTOR.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

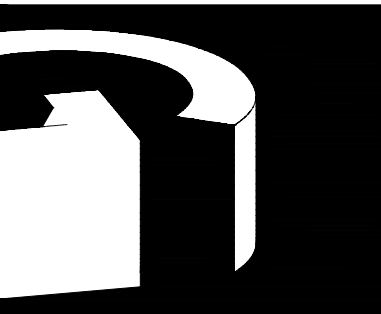
BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

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ARCHITECT OF RECORD



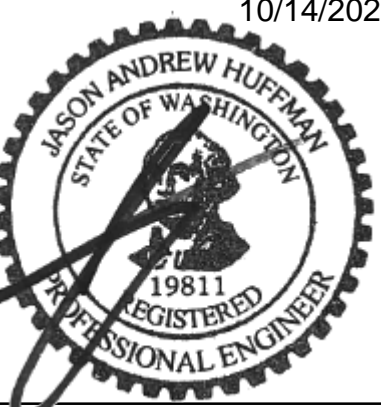
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SEAL



10/14/2021

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KIRKLAND, WA 98033

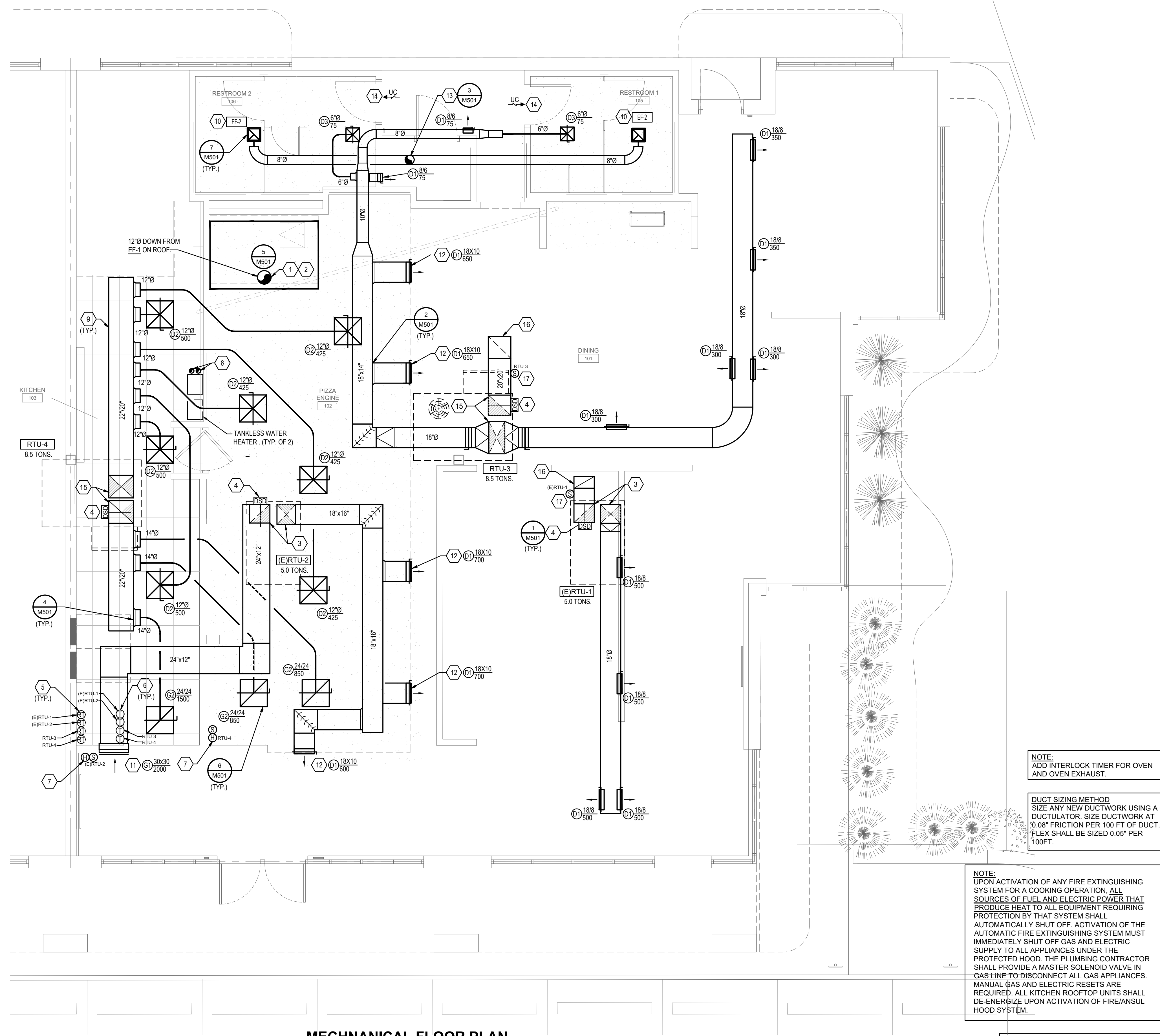
ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

M-001
MECHANICAL LEGEND AND GENERAL NOTES

Reviewed by J Hawley
 City of Kirkland Planning and
 Building
 12/03/2021 1:07:46 PM



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

NOTE:
 ADD INTERLOCK TIMER FOR OVEN
 AND OVEN EXHAUST.

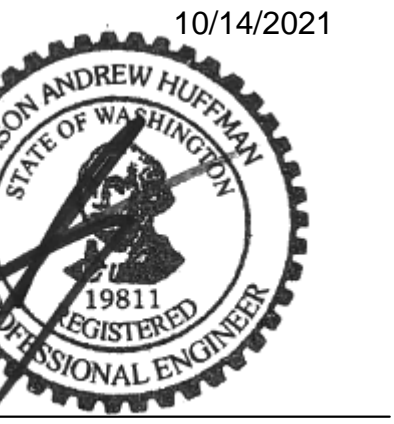
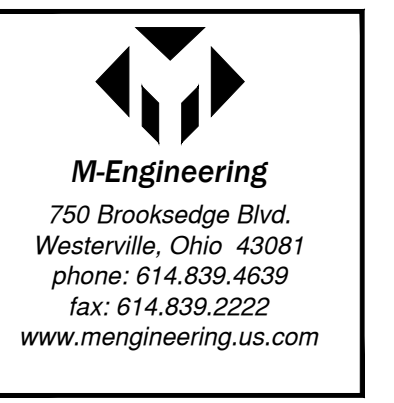
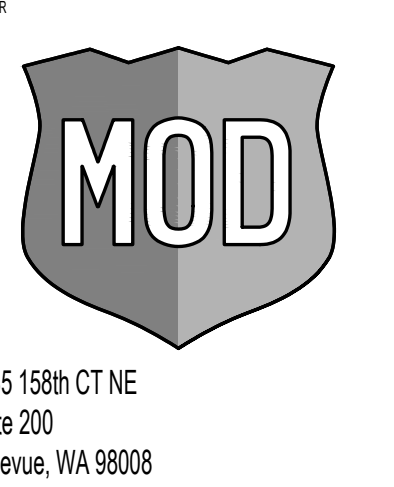
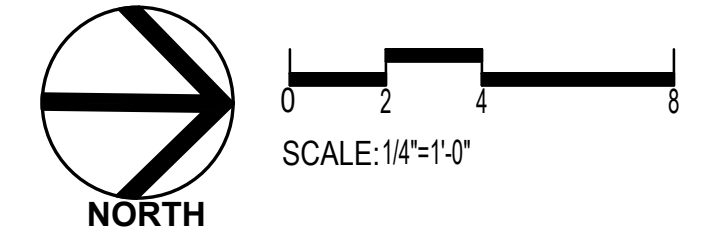
DUCT SIZING METHOD
 SIZE ANY NEW DUCTWORK USING A
 DUCTULATOR. SIZE DUCTWORK AT
 0.08" FRICTION PER 100 FT OF DUCT.
 FLEX SHALL BE SIZED 0.05" PER
 100FT.

NOTE:
 UPON ACTIVATION OF ANY FIRE EXTINGUISHING
 SYSTEM FOR A COOKING OPERATION, ALL
 SOURCES OF FUEL AND ELECTRIC POWER THAT
 PRODUCE HEAT TO ALL EQUIPMENT REQUIRING
 PROTECTION BY THAT SYSTEM SHALL
 AUTOMATICALLY SHUT OFF. ACTIVATION OF THE
 AUTOMATIC FIRE EXTINGUISHING SYSTEM MUST
 IMMEDIATELY SHUT OFF GAS AND ELECTRIC
 SUPPLY TO ALL APPLIANCES UNDER THE
 PROTECTED HOOD. THE PLUMBING CONTRACTOR
 SHALL PROVIDE A MASTER SOLENOID VALVE IN
 GAS LINE TO DISCONNECT ALL GAS APPLIANCES.
 MANUAL GAS AND ELECTRIC RESETS ARE
 REQUIRED. ALL KITCHEN ROOFTOP UNITS SHALL
 DE-ENERGIZE UPON ACTIVATION OF FIRE/ANSUL
 HOOD SYSTEM.

NOTE:
 PROVIDE WALL MOUNTED TEMPERATURE
 SENSORS IN EACH ZONE. PRIOR TO
 INSTALLATION VERIFY LOCATION OF
 TEMPERATURE SENSOR DOES NOT
 CONFLICT WITH WALL GRAPHICS, WALL
 ARTWORK, MENU BOARDS, AND BADGES.

CODED NOTES

- OVEN VENT SYSTEM TO BE PROCURED BY CONTRACTOR ONLY FROM CAPTIVE AIRE SYSTEMS REGION 85, 425-212-5996. REG85@CAPTIVEAIRE.COM, NO SUBSTITUTIONS PERMITTED. REFER TO H-SERIES SHEETS BY CAPTIVE AIRE FOR ADDITIONAL INFORMATION.
- 12"Ø EXHAUST DUCT UP TO EF-1 ON ROOF. CONTRACTOR TO MEASURE DUCTING IMMEDIATELY AFTER OVEN INSTALLATION AND PROMPTLY PROVIDE INFORMATION TO CAPTIVEAIRE SYSTEMS FOR FABRICATION, FABRICATION AND DELIVER TAKE FOUR (4) WEEKS MINIMUM. INCORPORATE INTO CONSTRUCTION SCHEDULE ACCORDINGLY.
- SUPPLY AND RETURN AIR DUCT UP EXISTING ROOF TO LANDLORD PROVIDED ROOFTOP UNITS TRANSITION AND OFFSET AS REQUIRED. FIELD VERIFY ALL ROUTING AND REQUIREMENTS PRIOR TO BID AND INSTALLATION. ALL ROOF WORK TO BE BY LANDLORDS ROOFING CONTRACTOR.
- CONTRACTOR TO PROVIDE DUCT MOUNTED SMOKE DETECTORS IN THE RETURN DUCT AND ALL WIRING CONNECTIONS. THE DUCT SMOKE DETECTOR SHALL BE COMPATIBLE WITH THE FIRE ALARM SYSTEM IF EXISTING. THE MECHANICAL CONTRACTOR SHALL INSTALL THE SMOKE DETECTOR AND REMOTE TEST STATION. ELECTRICAL CONTRACTOR SHALL CONNECT TO A FIRE ALARM SYSTEM. THE ACTIVATION OF THE DUCT SMOKE DETECTOR SHALL ACTIVATE AN AUDIBLE/VISUAL ALARM AT A CONSTANTLY ATTENDED LOCATION. MECHANICAL AND ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY THE SMOKE DETECTION SYSTEM WORKS PROPERLY AND MEETS ALL LOCAL AND STATE CODES. EXACT LOCATION OF REMOTE STATION SHALL BE FIELD VERIFIED.
- PROVIDE REMOTE TEST STATION FOR (E)RTU-1 AND (E)RTU-2 SMOKE DETECTORS. MOUNT TEST STATIONS IN THIS LOCATION. PROVIDE WITH AUDIBLE AND VISUAL ALARM WITH KEYPAD RESET. MOUNT TEST STATION 48 INCHES AFF. MOUNT AT MANAGER STATION. MOUNT AUDIBLE AND VISUAL ALARM IN CONSTANTLY ATTENDED LOCATION. AUDIBLE AND VISUAL ALARM IS NOT REQUIRED WHERE DUCT SMOKE DETECTOR ACTIVATES THE BUILDING'S ALARM SYSTEM. LABEL EACH REMOTE WITH ASSOCIATED ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION WITH TENANT'S CONSTRUCTION MANAGER.
- MECHANICAL CONTRACTOR TO INSTALL LANDLORD PROVIDED THERMOSTAT AT THE MANAGERS DESK. THERMOSTAT SHALL BE HONEYWELL MODEL VISION PRO 8000. MOUNT AT 48" AFF. COORDINATE EXACT LOCATION WITH TENANT CONSTRUCTION MANAGER. WIRE TO HVAC EQUIPMENT PER MANUFACTURER'S PRINTED INSTRUCTIONS. THE ENTIRE CONTROL SYSTEM SHALL BE PROVIDED COMPLETE IN EVERY RESPECT BY THE MECHANICAL CONTRACTOR.
- MECHANICAL CONTRACTOR TO INSTALL TEMPERATURE/HUMIDITY SENSOR AT THIS LOCATION. MOUNT ON WALL AT 60" AFF. PROVIDE CONDUIT FOR CONTROL WIRE. FIELD VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION WITH OWNERS REPRESENTATIVE. DO NOT PLACE ON ANY EXTERIOR WALL.
- ROUTE 4" WATER HEATER CONCENTRIC VENT PIPE UP TO ROOF. MAINTAIN 10'-0" CLEARANCE FROM ANY FRESH AIR INTAKE.
- ALL NEW SUPPLY AND RETURN DUCTWORK ABOVE CEILING SHALL BE GALVANIZED STEEL, EXTERNALLY INSULATED WITH TYPE 150, 2 INCH THICK, DUCTWRAP. INSTALLED R VALUE SHALL BE A MINIMUM OF 6.4. SEAL ALL JOINTS AND SEAMS WITH GLASS FABRIC AND MASTIC MEETING UL 181.
- PROVIDE WITH PROGRAMMABLE TIMER TO OPERATE DURING BUSINESS HOURS.
- COORDINATE LOCATION RETURN AIR GRILLE IN SOFFIT WITH ARCHITECTURAL DRAWINGS AND PAINT TO MATCH ADJACENT WALL SURFACE. PAINT GRILLES PRIOR TO INSTALLATION.
- CONTRACTOR TO MAKE SURE THAT SUPPLY SIDEWALL AIR DEVICES AVOID BLOWING ON PENDANT LIGHT STEMS. TYPICAL ALL SIDEWALLS.
- 10"Ø EXHAUST DUCT UP THRU ROOF. PROVIDE BACKDRAFT DAMPER, RAIN CAP AND 1/4 SQ. NON CORROSIVE WIRE MESH. EXHAUST DUCT SHALL BE GALVANIZED DUCT.
- GENERAL CONTRACTOR TO UNDERCUT DOOR 1" FOR AIR PASSAGE.
- SUPPLY AND RETURN AIR DUCT UP EXISTING ROOF TO NEW ROOFTOP UNIT TRANSITION AND OFFSET AS REQUIRED. FIELD VERIFY ALL ROUTING AND REQUIREMENTS PRIOR TO BID AND INSTALLATION. ALL ROOF WORK TO BE BY LANDLORDS ROOFING CONTRACTOR.
- PROVIDE RETURN AIR DUCTWORK ON 90 DEGREE ELBOW UP AND PROVIDE RETURN AIR OPENING WITH HARDWARE CLOTH WITH 1/2" OPENING.
- MECHANICAL CONTRACTOR TO INSTALL TEMPERATURE/HUMIDITY SENSOR IN THE RETURN AIR DUCTWORK. PROVIDE CONDUIT FOR CONTROL WIRE. FIELD VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION WITH OWNERS REPRESENTATIVE.



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 KIRKLAND, WA 98033

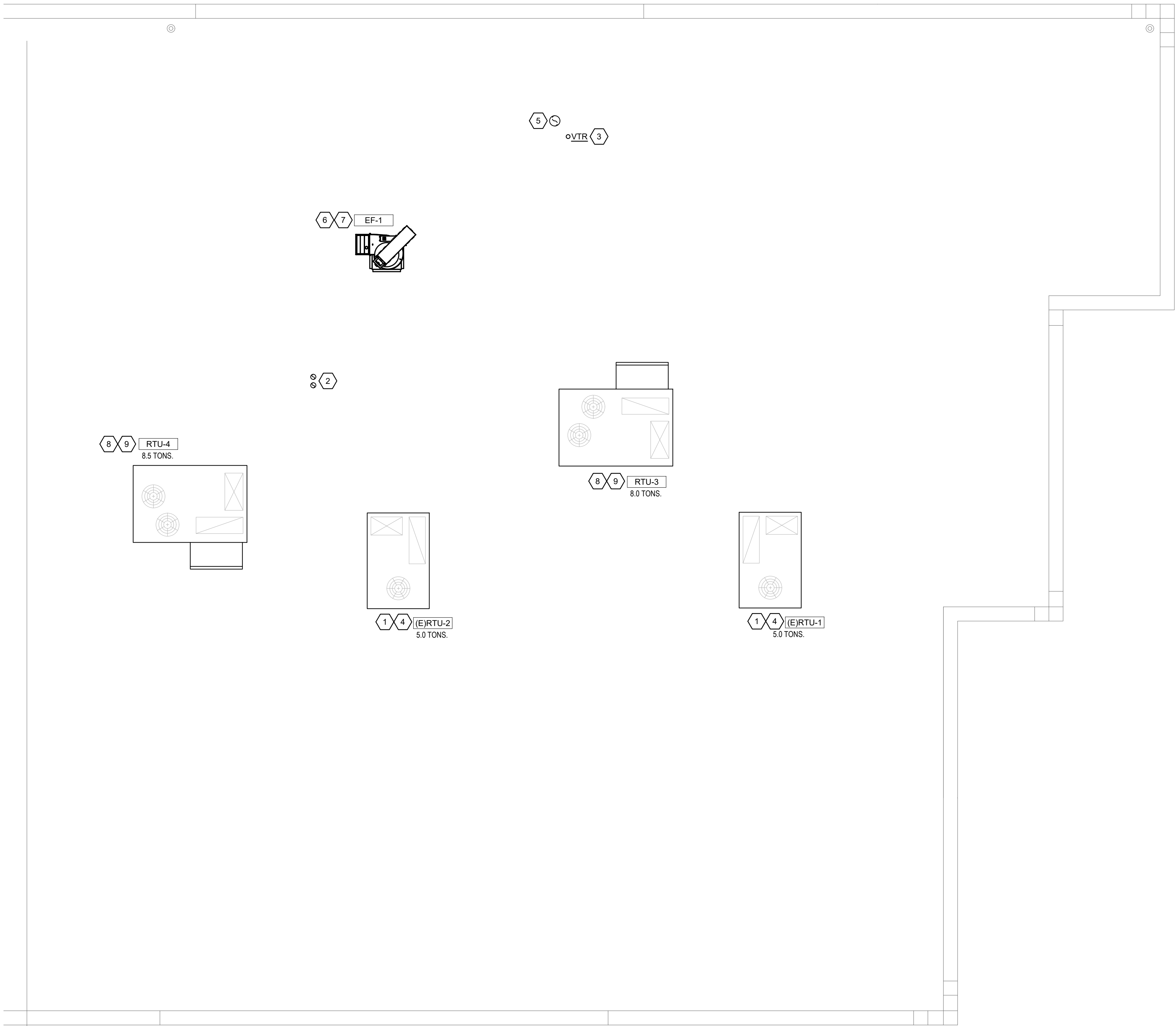
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 PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

M-111
 MECHANICAL FLOOR PLAN

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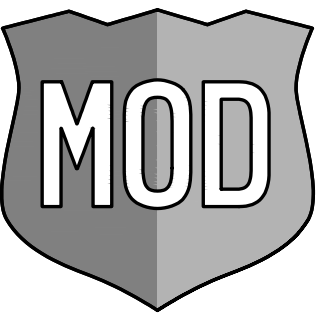
MECHNICAL ROOF PLAN
 1/4"=1'-0"

CODED NOTES

- EXISTING RTU PROVIDED BY LANDLORD. REFER TO SCHEDULE ON SHEET M-601 FOR INFORMATION.
- CONCENTRIC VENT FROM WATER HEATER UP THROUGH ROOF. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL FRESH AIR INTAKE.
- 4" VTR FROM VENT LINE UP THROUGH ROOF. MAINTAIN 12' MINIMUM CLEARANCE FROM ALL FRESH AIR INTAKE.
- EXISTING CONDENSATE LINE TO REMAIN UNCHANGED.
- 10"Ø EXHAUST UP FROM RESTROOMS. RESTROOM EXHAUST DUCT SHALL GALVANIZED STEEL. PROVIDE RAIN CAP WITH INTEGRAL BIRD SCREEN, BACKDRAFT DAMPER, AND ACCESSORIES AS REQUIRED. EXHAUST FAN SHALL MAINTAIN 10' CLEARANCE FOR ANY OUTSIDE AIR INTAKE. ALL ROOF WORK SHALL BE DONE BY LANDLORD'S ROOFING CONTRACTOR AT TENANT'S EXPENSE UNLESS NOTED OTHERWISE.
- PROVIDE ALL NEW GREASE EXHAUST FAN WITH PRE-FABRICATED ROOF CURBS AND PROVIDED BY CAPTIVEAIRE INSTALLED BY GC. SECURE FAN TO CURB WITH SCREWS PER LOCAL CODE REQUIREMENTS. HOOD EXHAUST FAN SHALL BE MINIMUM 40" FROM ROOF SURFACE AND 10'-0" MINIMUM FROM AND FRESH AIR INTAKE. FIELD VERIFY EXACT CONDITIONS.
- PROVIDE CAPTIVEAIRE HINGED BASE KIT OR EQUAL. THE HINGED BASE KIT IS A FIELD INSTALLED OPTION WHICH PROVIDES A LOCKABLE, HINGED CONNECTION BETWEEN THE FAN AND CURB. THIS ALLOWS EASY ACCESS TO THE WHEEL AND INLET OF THE FAN AS WELL AS THE INTERIOR DUCTWORK. THE KIT INCLUDES TWO HINGE PLATES, TWO LATCH PLATES, HINGE BOLTS, AIRCRAFT CABLE AND CLAMPS. SET FAN SO WHEN OPEN UP THERE IS ACCESS FOR CLEANING.
- CONTRACTOR PROVIDED AND INSTALLED ROOFTOP UNIT WITH NEW ROOF CURB. REFER TO SCHEDULE ON SHEET M-601 FOR INFORMATION.
- DISCHARGE FULL SIZE CONDENSATE LINE FROM NEW ROOFTOP UNIT TO SPLASH BLOCK.

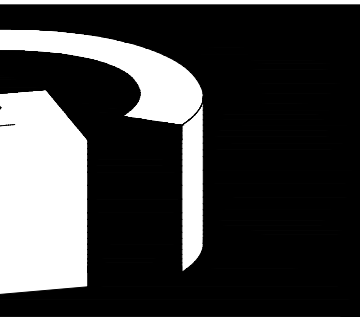
NOTE TO TENANT:
 RESTROOMS EXHAUST FANS SHOULD NOT BE ENGAGED AFTER RESTAURANT OPERATION HOURS. TO AVOID HIGH HUMIDITY PROBLEMS. IF FAN IS ENGAGED WITHOUT PROPER MAKEUP AIR HUMIDITY WILL BE DRAWN IN TO THE BUILDING.

NOTE:
 ALL NEW ROOFING WORK TO BE PERFORMED BY LANDLORDS ROOFING CONTRACTOR.



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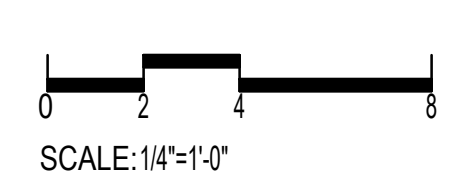
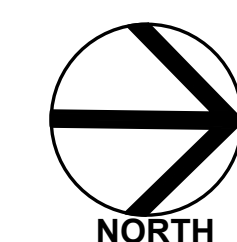
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M-131
 MECHANICAL ROOF PLAN



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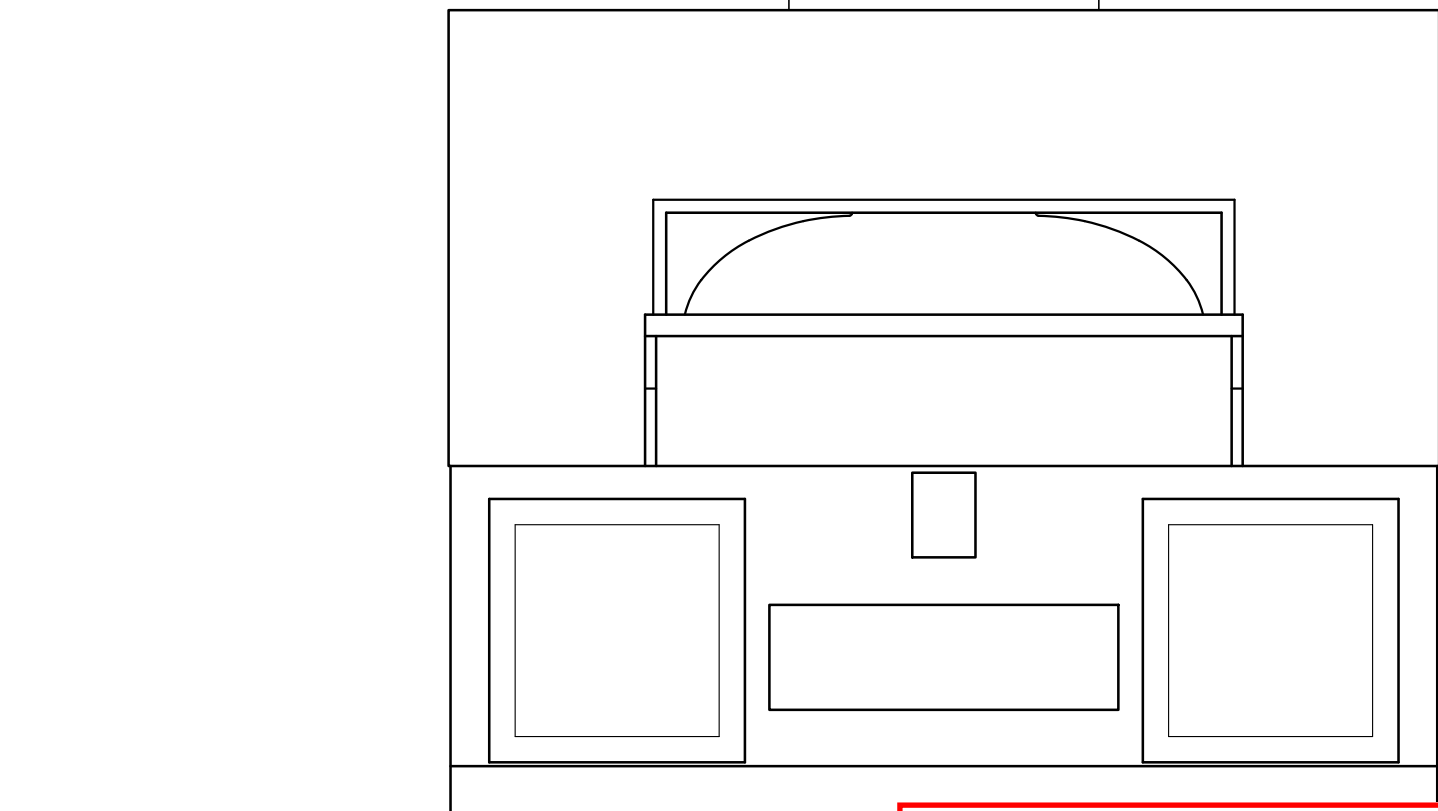
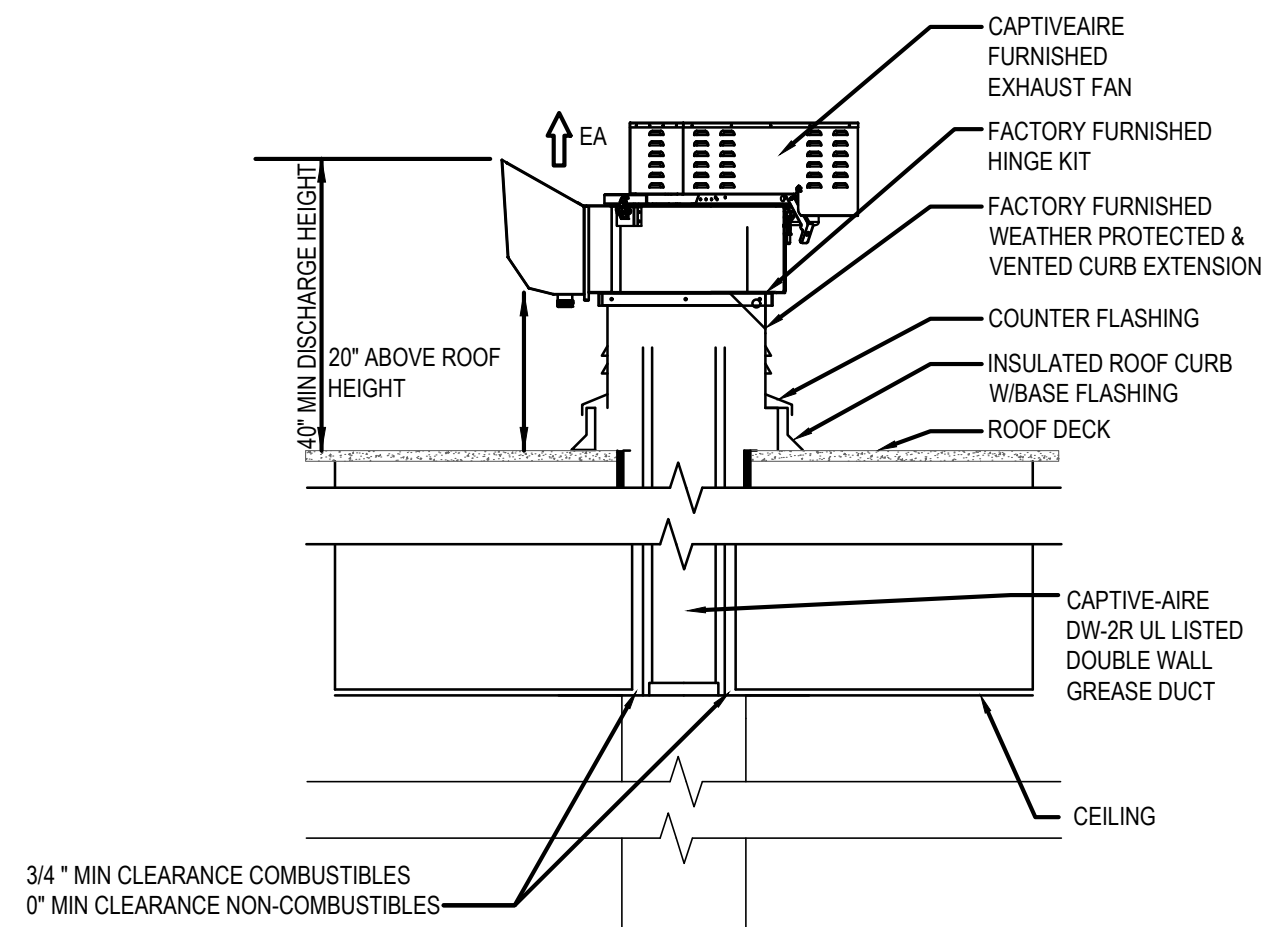
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DESIGN WEATHER PARAMETERS	
City Name	Warrenton
Location	Oregon
Latitude	46.2 Deg
Longitude	123.9 Deg
Elevation	23.0 ft
Summer Design Dry-Bulb	76.0 °F
Summer Coincident Wet-Bulb	64.0 °F
Summer Daily Range	14.2 °F
Winter Design Dry-Bulb	29.0 °F
Winter Design Wet-Bulb	29.0 °F
Atmospheric Clearness Number	1.05
Average Ground Reflectance	0.20
Soil Conductivity	0.800 BTU/(hr-ft ² -°F)
Local Time Zone (GMT +/-N hours)	8.0 hours No (TMZ)
Consider Daylight Savings Time	No
Simulation Weather Data	User Modified
Current Data is	January to December
Design Cooling Months	

HVAC LOAD CALCULATIONS			
Air System Information		Rooftop UnitS	Number of zones
Air System Name	PKG ROOF	Floor Area	2530 ft ²
Equipment Class	SZCAV	Location	Warrenton, Oregon
Air System Type			
Sizing Calculation Information		Zone CFM Sizing	Sum of space airflow rates
Calculation Months	Jan to Dec	Space CFM Sizing	Individual peak space loads
Central Cooling Coil Sizing Data			
Total coil load	10.8 Tons	Load occurs at	Aug 1500
Sensible coil load	129.2 MBH	OA DB / WB	76.0 / 64.0 °F
Coil CFM at Avg 1500	7500 CFM	Entering DB / WB	72.3 / 62.7 °F
Max block CFM	7500 CFM	Leaving DB / WB	57.8 / 56.9 °F
Sum of peak zone CFM	7500 CFM	Coil ADP	56.2 °F
Sensible heat ratio	0.906	Bypass Factor	0.100
CFM/Ton	696.0	Resulting RH	61 %
BTU/(hr-ft ²)	235.0	Design supply temp	57.0 °F
r7/Ton	51.1	Zone-1 stat Check	1 of 1 OK
Water flow @ 10.0 °F rise	N/A	Max zone temperature deviation	0.0 °F
Central Heating Coil Sizing Data			
Max coil load	97.4 MBH	Load occurs at	Des Htg
Coil CFM at Des Htg	7500 CFM	Ent. DB / Lvg DB	38.5 °F
Max coil CFM	7500 CFM		
Water flow @ 20.0 °F drop	N/A gpm		
Supply Fan Sizing Data			
Actual max CFM	7500 CFM	Fan motor BHP	1.30 BHP
Standard CFM	7496 CFM	Fan motor kW	1.04 kW
Actual max CFM/R ²	2.96 CFM/R ²	Fan static	1.00 in wg
Outdoor Ventilation Air Data			
Design airflow CFM	1400 CFM	CFM/person	20.00 CFM/person
CFM/R ²	0.55 CFM/R ²		

AIR SYSTEM DESIGN LOAD SUMMARY FOR TOTAL						
ZONE LOADS	DESIGN COOLING			DESIGN HEATING		
	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	520 ft ²	22282	-	520 ft ²	-	-
Wall Transmission	1737 ft ²	7328	-	1737	16837	-
Roof Transmission	2530 ft ²	8620	-	2530	6631	-
Window Transmission	520 ft ²	1007	-	520	12523	-
Skylight Transmission	0 ft ²	0	-	0 ft ²	0	-
Door Loads	0 ft ²	0	-	0 ft ²	0	-
Floor Transmission	2530 ft ²	0	-	2530 ft ²	0	-
Partitions	0 ft ²	0	-	0 ft ²	0	-
Ceiling	0 ft ²	0	-	0 ft ²	0	-
Overhead Lighting	1130 W	3037	-	0	0	-
Task Lighting	1300 W	3812	-	0	0	-
Electric Equipment	11000 W	34622	-	0	0	-
People	70	12407	1108	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	9322	1108	10%	3599	0
>> Total Zone Loads	-	102537	12188	-	39500	0
Zone Conditioning	-	106655	12188	-	36964	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Return Fan Load	7500 CFM	0	-	7500 CFM	0	-
Ventilation Load	1400 CFM	6906	-104	1400 CFM	63987	0
Supply Fan Load	7500 CFM	3532	-	7500 CFM	-3532	-
Space Fan Coil Fans	0	0	-	0	0	-
Duct Heat Gain / Loss	0%	0	-	0%	0	-
>> Total System Loads	-	117093	12084	-	97419	0
Central Cooling Coil	-	117093	12086	-	-	0
Central Heating Coil	-	-	-	-	97419	-
>> Total Conditioning	-	117093	12086	-	97419	0
Key:		Positive values are clg loads		Positive values are htg loads		
		Negative values are htg loads		Negative values are clg loads		

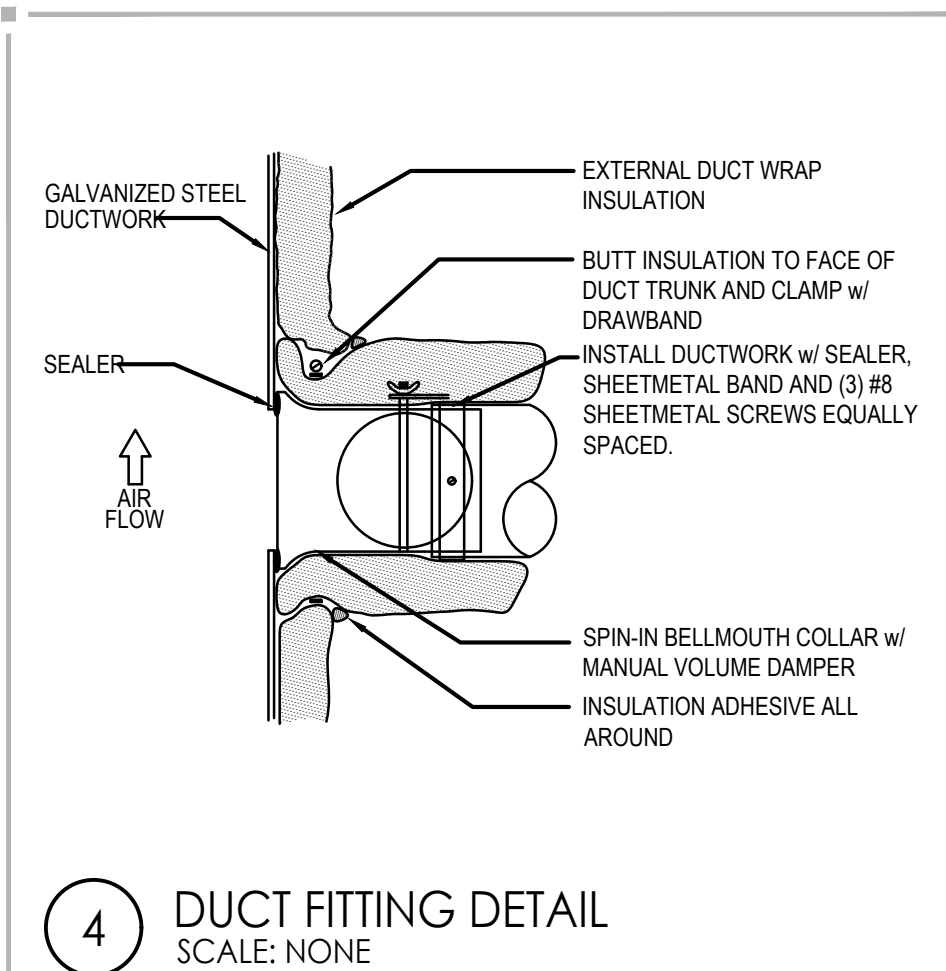
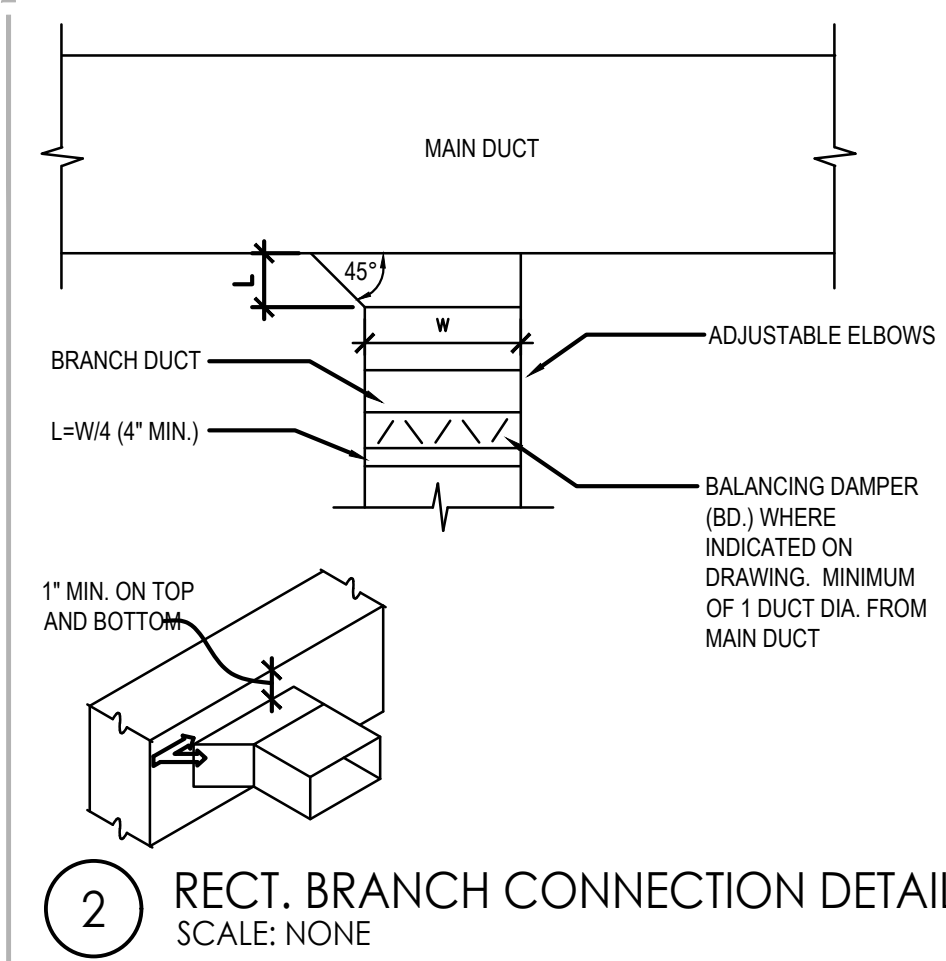
10 LOAD SUMMARY
SCALE: NONE



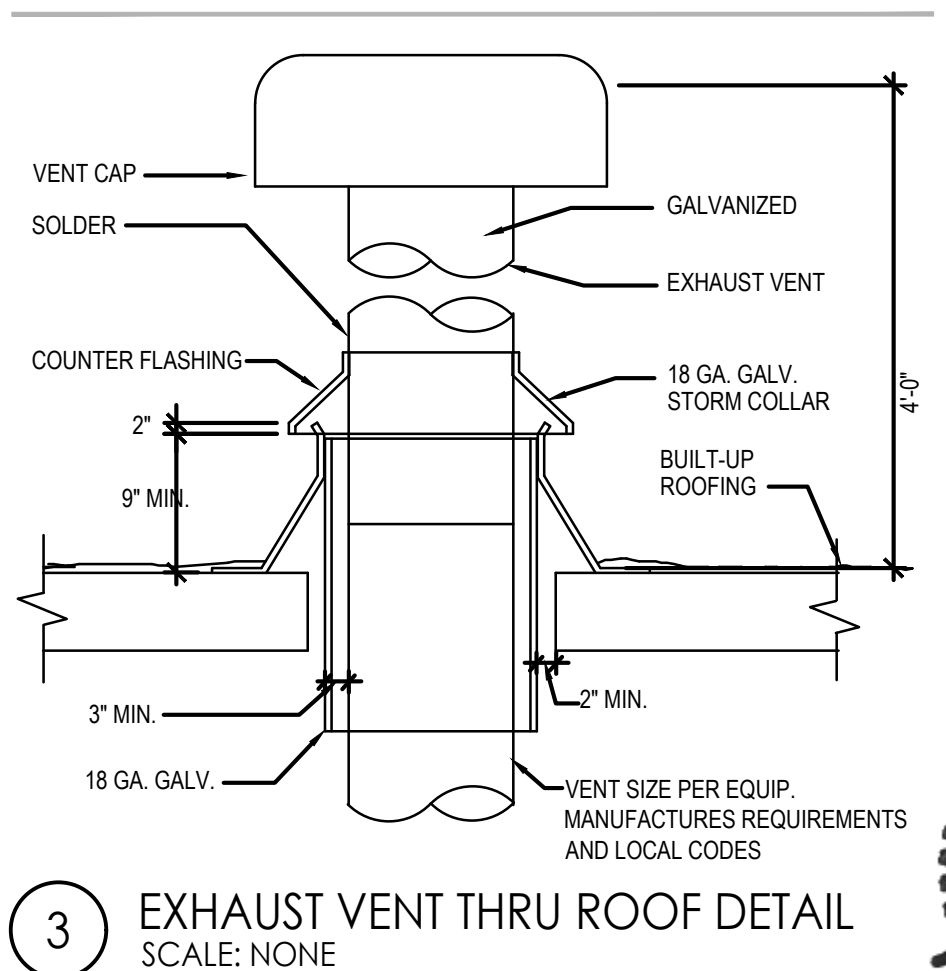
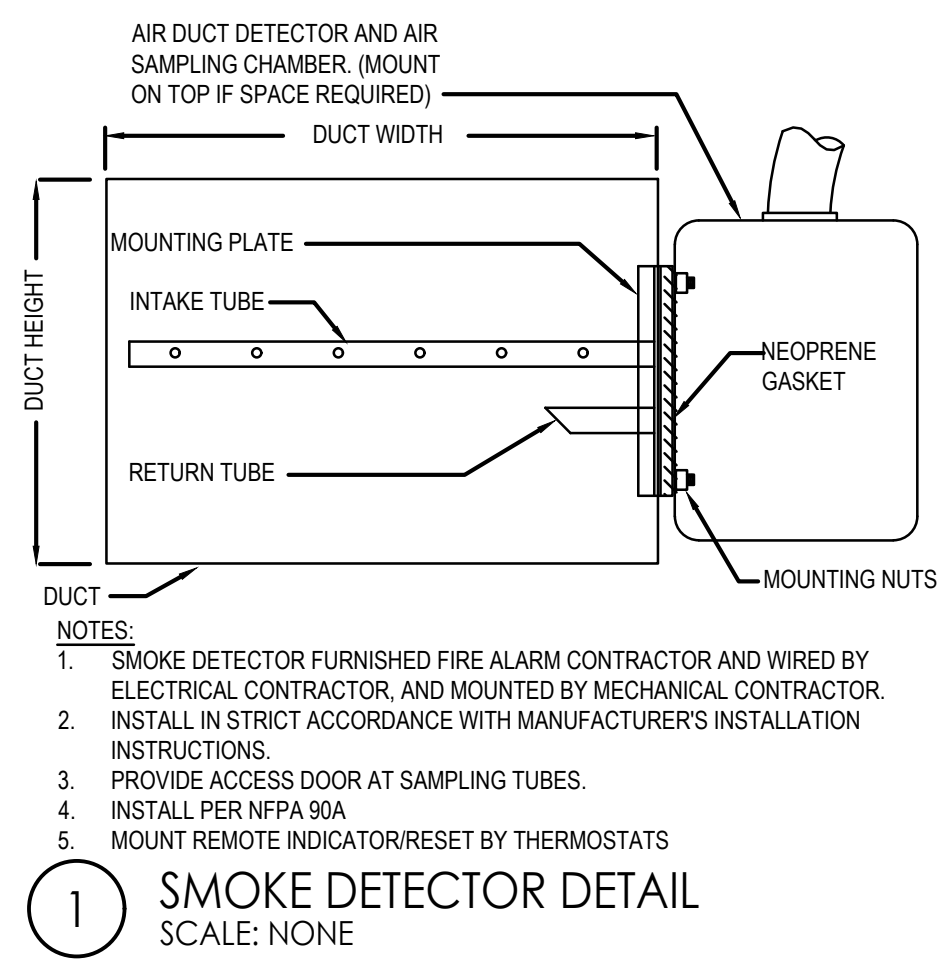
5 GREASE EXHAUST FAN DETAIL
SCALE: NONE

Grease ducts shall conform with IMC Section 506

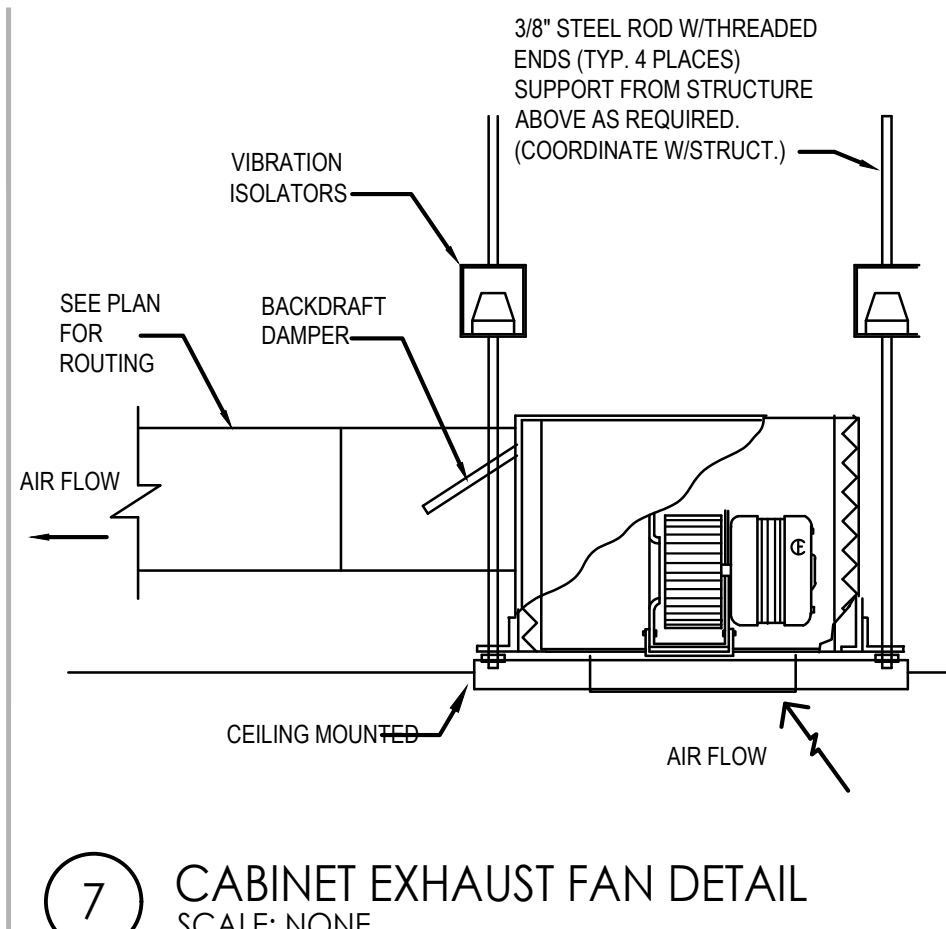
Grease duct leakage test required per IMC 506.3.2.5



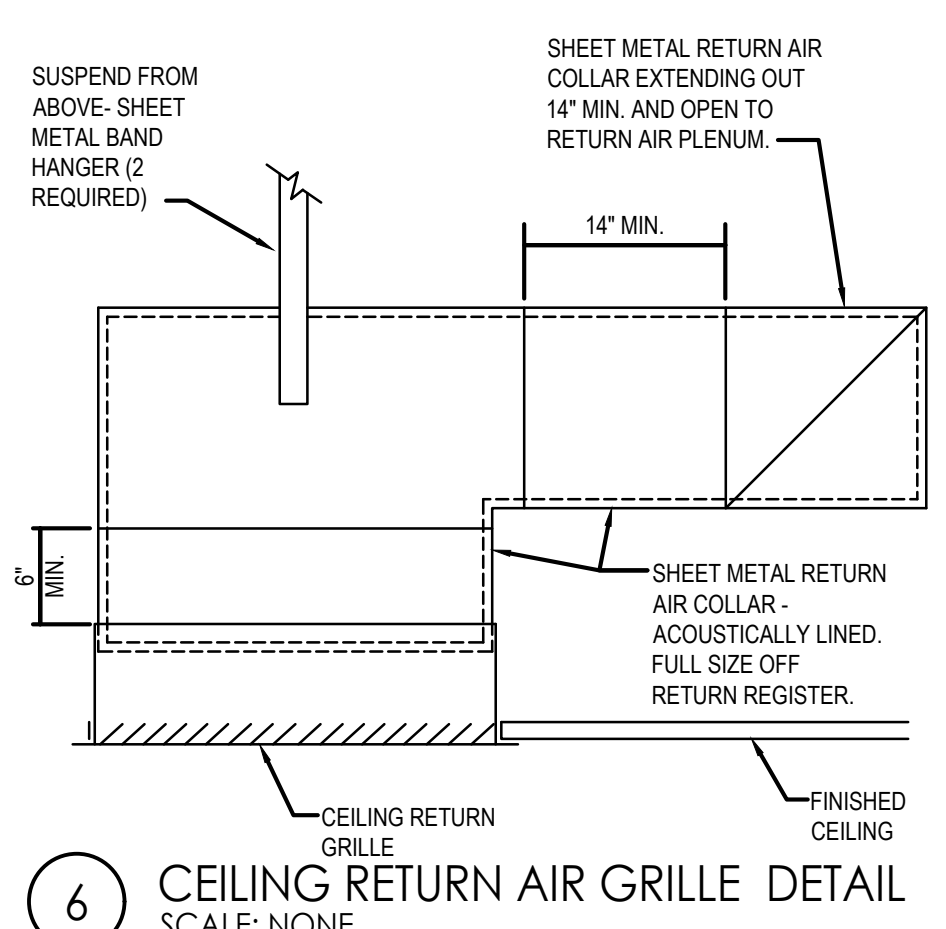
4 DUCT FITTING DETAIL
SCALE: NONE



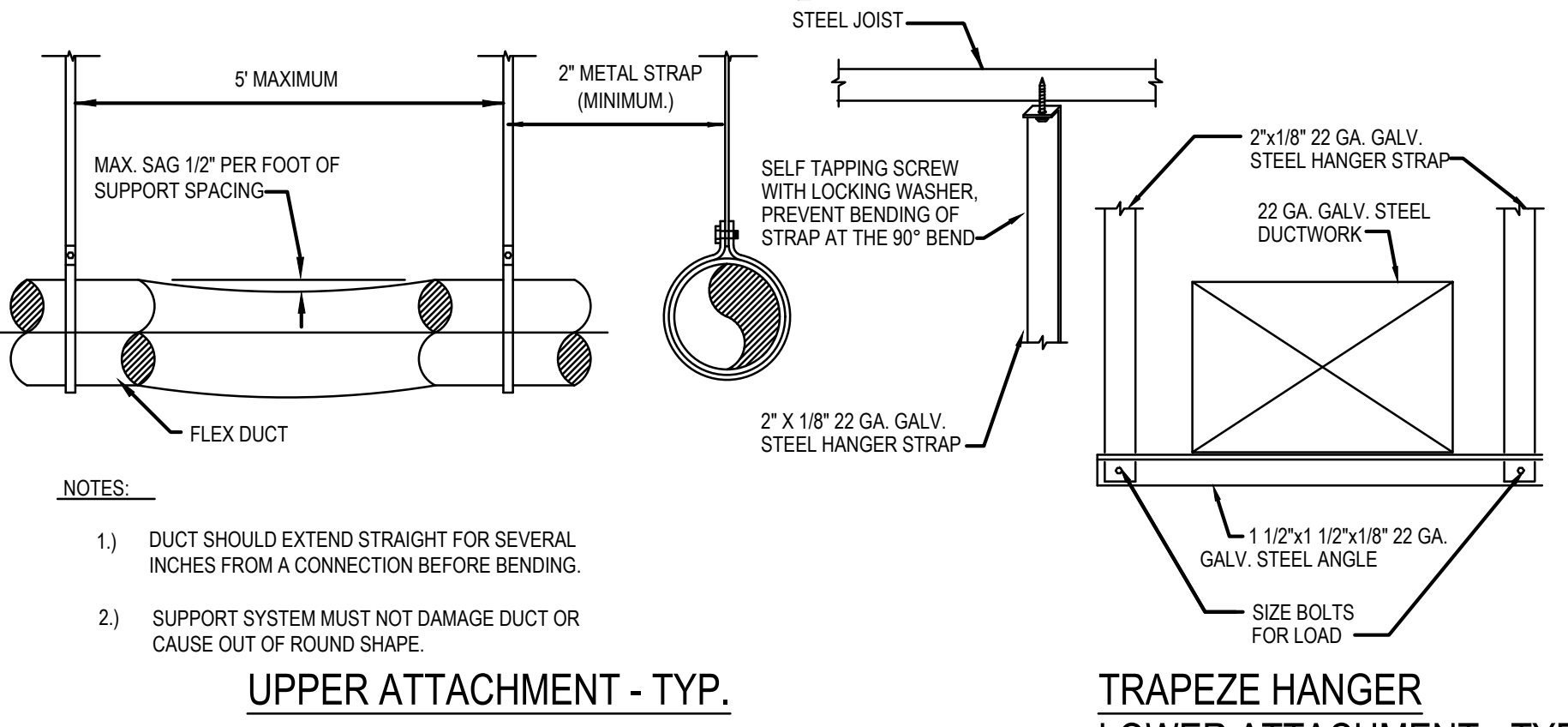
3 EXHAUST VENT THRU ROOF DETAIL
SCALE: NONE



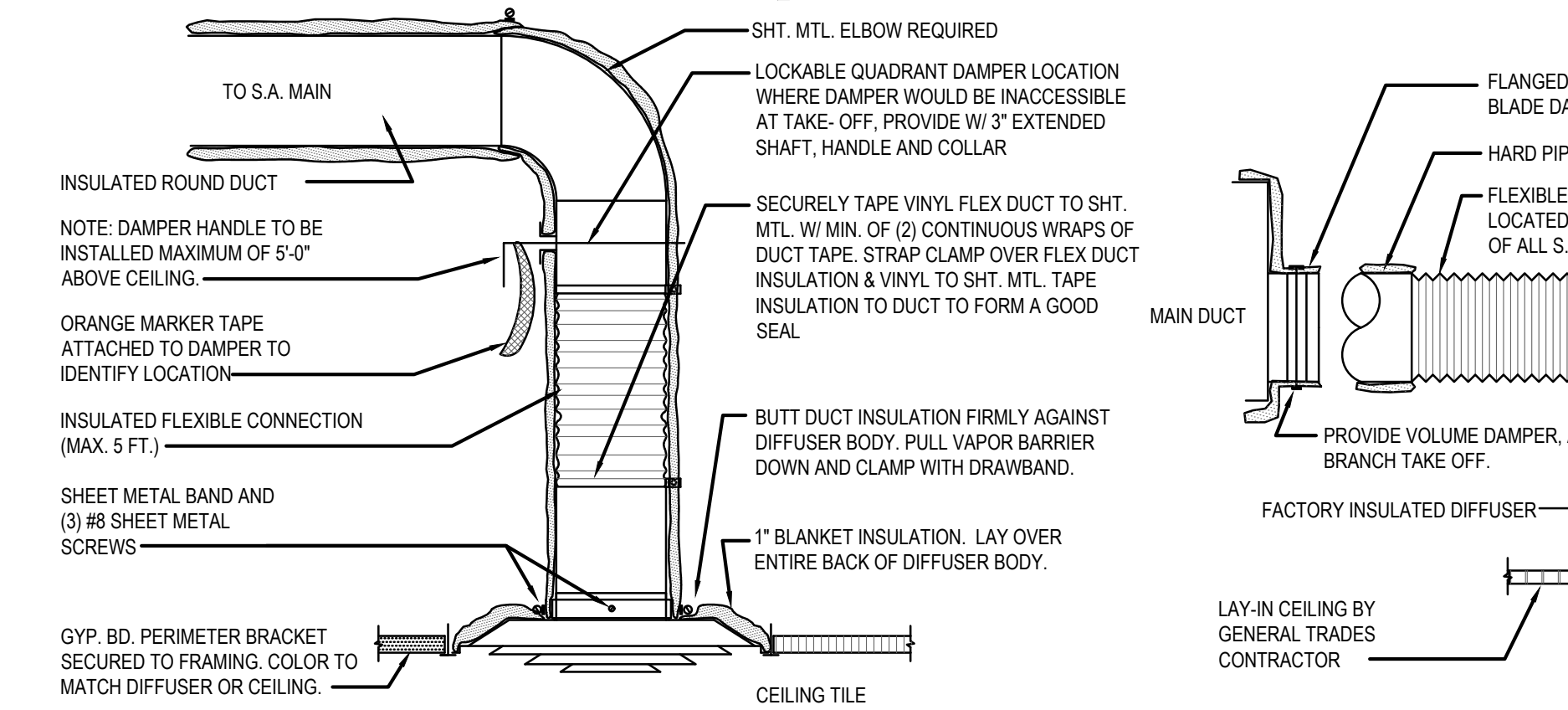
7 CABINET EXHAUST FAN DETAIL
SCALE: NONE



6 CEILING RETURN AIR GRILLE DETAIL
SCALE: NONE



9 DUCT HANGING DETAIL
SCALE: NONE



8 DIFFUSER CONNECTION DETAIL
SCALE: NONE

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KIRKLAND, WA 98033

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MECHANICAL DETAILS

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

TAG	MANUFACTURER / MODEL	TYPE	MATERIAL	FINISH	FACE SIZE	DUCT INLET	MOUNTING	PATTERN	DAMPERS
D1	TITUS 300RS	SUPPLY GRILLE	ST	NOTE 7	NOTE 2	NOTE 3	NOTE 4	FA	NOTE 8
D2	TITUS PCS	PERFORATED SUPPLY DIFFUSER	ST	NOTE 5	NOTE 1	-	NOTE 4	ADJ	NONE
D3	TITUS TDC-AA	LOUVERED FACE SUPPLY DIFFUSER	AL	NOTE 5	NOTE 1	-	NOTE 4	ADJ	NONE
G1	TITUS 350RL	RETURN GRILLE	ST	NOTE 5	NOTE 2	NOTE 3	NOTE 4	-	NONE
G2	TITUS PAR	PERFORATED RETURN GRILLE	ST	NOTE 5	NOTE 1	-	NOTE 4	ADJ	NONE

- NOTES:
- SEE DRAWINGS FOR FACE SIZE (24x24 OR 12x12). PROVIDE 24x24 FOR LAY IN CEILINGS.
 - FACE SIZE DETERMINED FROM DUCT INLET SIZE.
 - SEE AIR DEVICE TAG FOR DUCT INLET SIZE.
 - COORDINATE BORDER TYPE (SURFACE MOUNT, SNAP IN, LAY-IN, SPLINE, DROPPED FACE, AND BEVELED DROP FACE) WITH CEILING TYPE AS SHOWN IN ARCHITECTURAL CEILING PLANS.
 - PROVIDE COLOR TO MATCH CEILING FINISH.
 - SLOTTED DIFFUSER SHALL BE 5' LONG x 2 SLOTS.
 - WHEN INSTALLED WITH DUCTWORK PAINT GRILLE GRAY TO MATCH DUCTWORK. OTHERWISE PAINT TO MATCH PARTITION.
 - PROVIDE WITH OPPOSED BLADE DAMPERS.

ABBREVIATIONS:
 ST = STEEL, AL = ALUMINUM, BE = BAKED ENAMEL, AA = ANODIZED ALUMINUM, FA = FULLY ADJUSTABLE, TP = TWO POSITION, OPD = OPPOSED BLADE DAMPERS, ADJ = ADJUSTABLE, BA=BAKED ACRYLIC, BO = BLANK OFF, DB = DIRECTIONAL BLADES, AND P = PLENUM.

THERMOSTAT SCHEDULE

MARK	SERVICE LOCATION	OCCUPIED		UNOCCUPIED	
		COOLING	HEATING	COOLING	HEATING
(E)RTU-1	DINING	72	68	80	64
(E)RTU-2	DINING	72	68	80	64
RTU-3	DINING	72	68	80	64

- NOTES:
- CONTRACTOR SHALL COORDINATE EXACT OPERATIONAL TIMES WITH OWNER/MANAGER PRIOR TO PROGRAMMING.
 - CONTRACTOR SHALL INTERLINK RESTROOM EXHAUST FAN WITH OCCUPANCY SENSOR.
 - CONTRACTOR MUST VERIFY THAT HUMIDITY CONTROLS AND SENSORS FUNCTIONS PER MANUFACTURERS SPECIFICATIONS. SET TO 50% RH IN THE SPACE.

Reviewed by J Hawley
City of Kirkland Planning and Building

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PACKAGED ROOF TOP UNIT SCHEDULE (PROVIDED AND INSTALLED BY LANDLORD)

TAG	NEW OR EXISTING	SERVICE	MANUFACTURER/MODEL	SUPPLY AIR (CFM)	ESP (IN WC)	OUTSIDE AIR FLOW (CFM)	HEATING		COOLING TOTAL CAPACITY (MBH)	EFFICIENCY EER	ELECTRICAL			DIMENSIONS L" x W" x H"	WEIGHT (LBS)	NOTES
							INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)			MCA (AMPS)	MCCP (AMPS)	VOLTAGE/PHASE (V/Ø)			
(E)RTU-1	EXISTING	DINING	---	2000	0.6	250	108	86	60	EXISTING	EXISTING	EXISTING	208V/Ø	EXISTING	--	1-2
(E)RTU-2	EXISTING	DINING	---	2000	0.6	250	108	86	60	EXISTING	EXISTING	EXISTING	208V/Ø	EXISTING	--	1-2

- NOTES:
- PROVIDE NEW HONEYWELL VISION PRO 8000 7-DAY PROGRAMMABLE THERMOSTAT. INSTALL CONTROL THERMOSTATS IN MANAGER'S AREA IN BACK OF HOUSE WITH TEMPERATURE SENSOR/HUMIDITY SENSOR H7365A IN EACH ZONE.
 - RELOCATE EXISTING TSTAT.

NOTE:
 ALL HVAC UNITS AND REQUIRE INTERLINKING FOR FAN SHUTDOWN UPON ACTIVATION OF SPRINKLER FLOW SWITCH OR GLOBAL ALARM. UNITS OVER 2000 CFM REQUIRE DUCT SMOKE DETECTION ON RETURN AND SUPPLY SIDE PER 2002 NFPA 90A. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL REQUIREMENTS PRIOR TO BID.

NOTE:
 G.C. SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. PRIOR TO ORDERING. VERIFY ALL CONTROLS WITH HONEYWELL REP PRIOR TO ORDERING.

PACKAGED ROOF TOP UNIT SCHEDULE

TAG	NEW OR EXISTING	SERVICE	MANUFACTURER/MODEL	SUPPLY AIR (CFM)	ESP (IN WC)	OUTSIDE AIR FLOW (CFM)	HEATING		COOLING TOTAL CAPACITY (MBH)	EFFICIENCY EER	ELECTRICAL			DIMENSIONS L" x W" x H"	WEIGHT (LBS)	NOTES
							INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)			MCA (AMPS)	MCCP (AMPS)	VOLTAGE/PHASE (V/Ø)			
RTU-3	NEW	DINING	LENNOX / KGB102H	3200	0.6	500	180	144	103.5	12.2	48	60	208V/Ø	--	1400	1-2
RTU-4	NEW	DINING	LENNOX / KGB102H	3200	0.6	500	180	144	103.5	12.2	48	60	208V/Ø	--	1400	1-2

- NOTES:
- PROVIDE NEW HONEYWELL VISION PRO 8000 7-DAY PROGRAMMABLE THERMOSTAT. INSTALL CONTROL THERMOSTATS IN MANAGER'S AREA IN BACK OF HOUSE WITH TEMPERATURE SENSOR/HUMIDITY SENSOR H7365A IN EACH ZONE.
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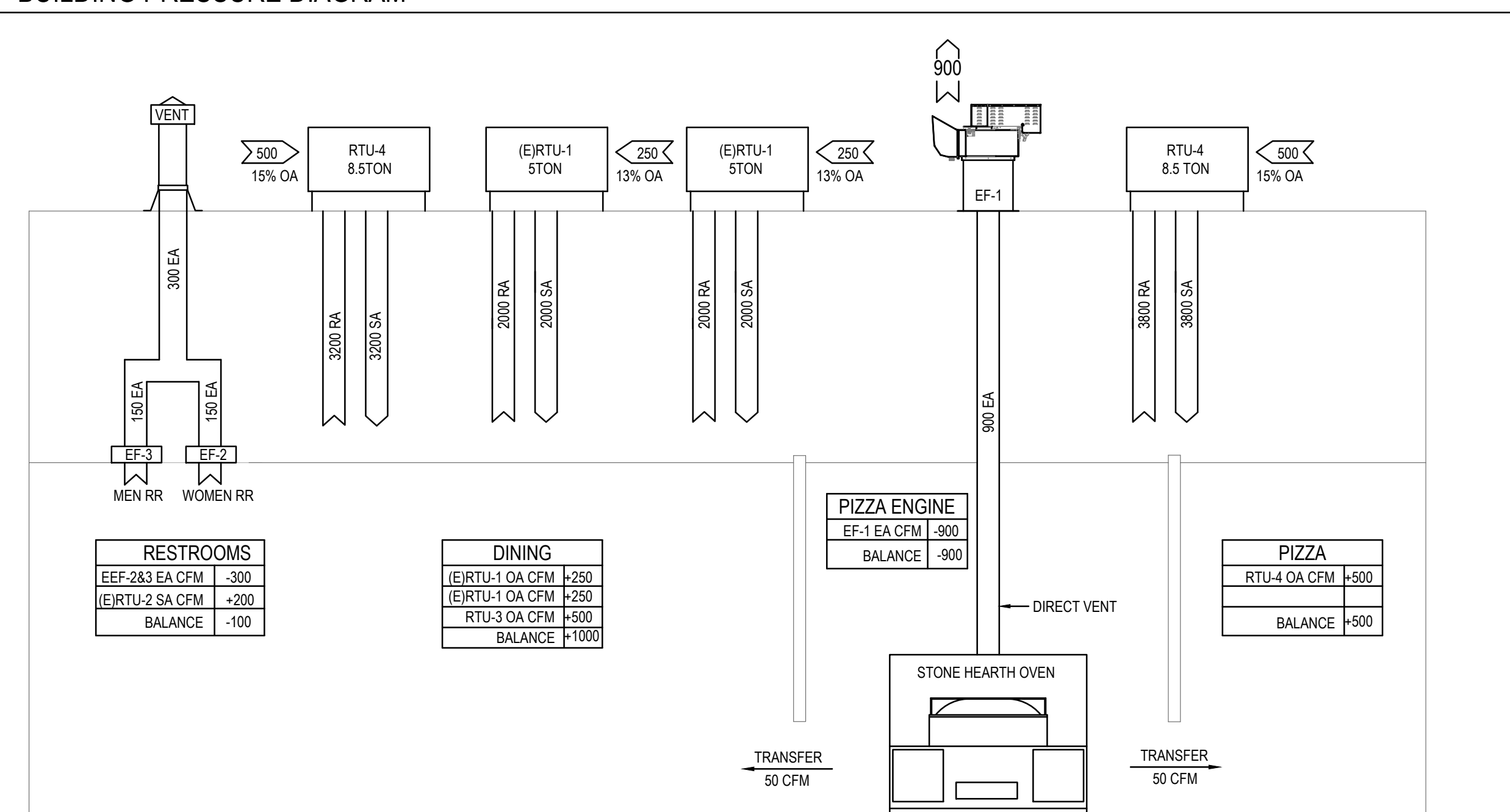
FAN SCHEDULE

KEY: CENT.-CENTRIFUGAL-PROP-PROPELLER;
 F.C.-FORWARD CURVE B.I.-BACKWARD INCLINED; A.F.-AIR FOIL

TAG	MODEL	TYPE	LOCATION	CFM	TOTAL E.S.P. (IN H ₂ O)	POWER HP	FAN RPM	DRIVE		DAMPER		ELECTRICAL DATA		WEIGHT W/CURB (LBS)	REMARKS	DESCRIPTION	
								ADJUST V-BELT	DIRECT	GRAVITY	MOTOR OPERATED	FLA	VOLTS				PHASE
EF-1	CAPTIVEAIRE CASRE13BD	CENT.	ROOF	900	0.500	0.500	1331	X	-	-	-	7.6	115	1	246	A,B,C,D,E	EXHAUST FOR PIZZA HOOD
EF-2	COOK GC-146	DIRECT	CEILING	150	0.375	33.1W	900	-	X	X	-	-	120	1	12	F,G	WOMEN'S RR
EF-3	COOK GC-146	DIRECT	CEILING	150	0.375	33.1W	900	-	X	X	-	-	120	1	12	F,G	MEN'S RR

- NOTES:
- GREASE EXHAUST FAN AND ACCESSORIES TO BE FURNISHED THRU CAPTIVEAIRE, INSTALLED BY MECHANICAL CONTRACTOR.
 - PROVIDE WITH VENTED ROOF CURB, HINGED BASE CHAIN AND HASP KIT AND BUILT-IN GREASE TROUGH DRAIN FITTING.
 - PROVIDE DISCONNECT SWITCH.
 - PROVIDE WITH HOOD ON/OFF TOGGLE SWITCH.
 - PROVIDE PRE-FABRICATED CURB FROM CAPTIVEAIRE.
 - RESTROOM EXHAUST DUCT SHALL BE GALVANIZED STEEL. PROVIDE RAIN CAP WITH INTEGRAL BIRD SCREEN, BACKDRAFT DAMPER, AND ACCESSORIES AS REQUIRED INCLUDING SPEED CONTROLLER CONCEALED AND ACCESSIBLE. EXHAUST FAN SHALL MAINTAIN 10' CLEARANCE FOR ANY OUTSIDE AIR INTAKE. ALL ROOF WORK SHALL BE DONE BY LANDLORD'S ROOFING CONTRACTOR AT TENANT'S EXPENSE UNLESS NOTED OTHERWISE.
 - PROVIDE RESTROOM EXHAUST FANS WITH PROGRAMMABLE TIMER TO OPERATE DURING BUSINESS HOURS.
- NOTE:
 EXHAUST FAN EF-1 FURNISHED WITHIN CAPTIVEAIRE SYSTEMS PACKAGE TO BE PROCURED BY MECHANICAL CONTRACTOR THROUGH CAPTIVEAIRE SYSTEMS REGION 85 ONLY (JON CLARKE, 425-212-5966 EXT.2) AND INSTALLED BY MECHANICAL CONTRACTOR. SEE H-SERIES SHEETS FOR ADDITIONAL INFO.

BUILDING PRESSURE DIAGRAM



Provide HVAC Balancing report at MECH final

BUILDING BALANCE

RESTROOMS	-300
DINING	+800
PIZZA ENGINE	-900
KITCHEN	+600
BALANCE	+200

2,530 SQFT/20 TON = 126 SQFT/TON

NOTE:
 TYPE I HOODS SHALL BE DESIGNED AND INSTALLED TO AUTOMATICALLY ACTIVATE THE EXHAUST FAN WHENEVER COOKING OPERATIONS OCCUR. THE ACTIVATION OF THE EXHAUST FAN SHALL OCCUR THROUGH AN INTERLOCK WITH THE COOKING APPLIANCES, BY MEANS OF HEAT SENSORS OR BY MEANS OF OTHER APPROVED METHODS.

COMBUSTION AIR CALCULATION

MARK	QTY.	DESCRIPTION	TOTAL GAS (BTUH)	REQUIRED COMBUSTION AIR (CFM)
E-107	1	PIZZA OVEN	60,000	21
TOTAL CFM REQUIRED				280.7
TOTAL CFM PROVIDED				>300

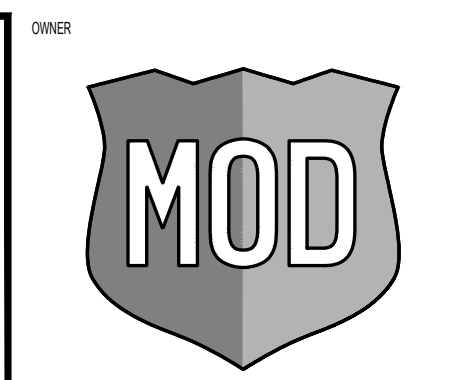
NOTES:
 1. REQUIRED COMBUSTION AIR PROVIDED BY MECHANICAL SYSTEM AT MINIMUM RATE OF .35 CFM PER 1000 BTUH.
 2. COMBUSTION AIR PROVIDED THROUGH DILUTION OF OUTSIDE AIR THROUGH RTUs.

AIR BALANCE SCHEDULE

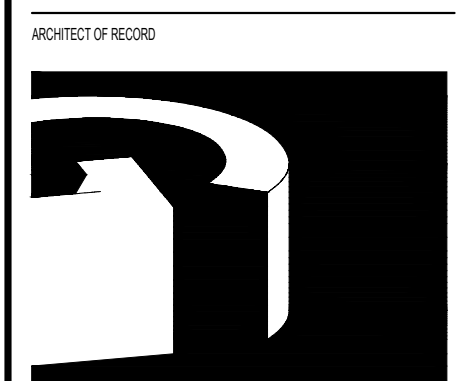
MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST
EF-1	-	-	-	-900
EF-2	-	-	-	-150
EF-3	-	-	-	-150
(E)RTU-1	2000	1750	250	-
(E)RTU-2	2000	1750	250	-
RTU-3	3200	2700	500	-
RTU-4	3200	2700	500	-
TOTAL	10400	8900	1500	+300
BUILDING PRESSURE				+300

CONTROL SEQUENCE OF OPERATIONS

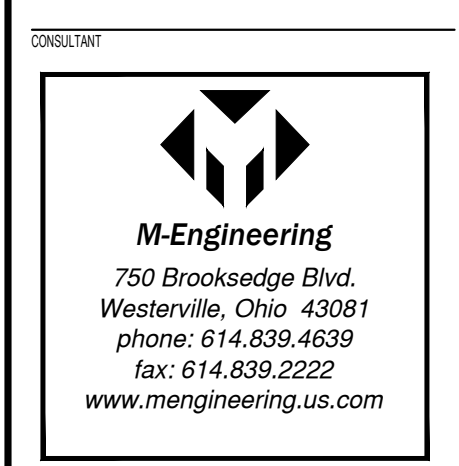
- DAY CYCLE - COOLING**
- SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
 - OUTSIDE AIR DAMPER SHALL BE IN MINIMUM POSITION.
 - THERMOSTAT SHALL CYCLE COMPRESSOR(S) TO MAINTAIN ROOM SET TEMPERATURE.
- DAY CYCLE - HEATING**
- SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
 - OUTSIDE AIR DAMPER SHALL BE IN MINIMUM POSITION.
 - THERMOSTAT SHALL CYCLE ELECTRIC HEATER TO ACHIEVE ROOM SET TEMPERATURE.
- DAY CYCLE - DEHUMIDIFICATION (APPLIES TO UNITS WITH THIS OPTION)**
- SUPPLY AIR FANS SHALL RUN CONTINUOUSLY.
 - MECHANICAL OUTSIDE AIR DAMPERS SHALL BE IN OPEN POSITION.
 - RESTROOM EXHAUST FANS SHALL BE ENERGIZED.
 - HUMIDISTAT SHALL CYCLE COOLING COIL STAGES TO MAINTAIN SET POINT HUMIDITY.
- ECONOMIZER**
- SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
 - OUTSIDE AIR DAMPER SHALL MODULATE FROM MINIMUM TO 100% OUTSIDE AIR TO MAINTAIN ROOM SET TEMPERATURE.
- MORNING WARM-UP**
- SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
 - OUTSIDE AIR DAMPER SHALL BE IN CLOSED POSITION.
 - WHEN SET TEMPERATURE IS REACHED COOLING OR HEATING CYCLE SHALL COMMENCE.
- NIGHT SETBACK**
- OUTSIDE AIR DAMPER SHALL BE IN CLOSED POSITION.
 - THERMOSTAT SHALL CYCLE EITHER COOLING OR HEATING AND SUPPLY AIR FAN TO MAINTAIN ROOM SET TEMPERATURE.
- SMOKE DETECTOR**
- WHEN SMOKE DETECTOR IS ACTIVATED SUPPLY AIR FAN SHALL SHUTDOWN.
 - SUPPLY AIR FAN SHALL BE MANUALLY RESET.



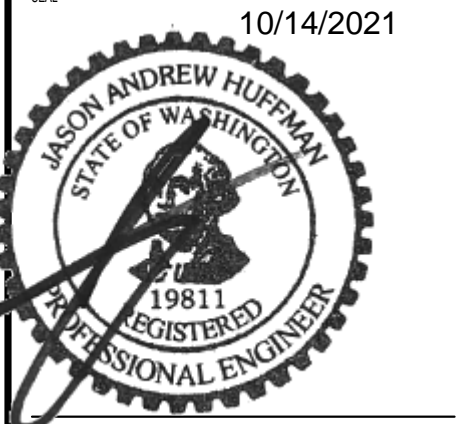
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10/14/2021



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 230 MAIN STREET
 KIRKLAND, WA 98033

ISSUED / REVISED DATE
 PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

M-601
 MECHANICAL SCHEDULES

Reviewed by J Hawley
City of Kirkland Planning and Building

12/03/2021 12:52:49 PM

Permit and approved plan shall be onsite

Work shall conform to the 2018 UPC

Public use Lavs shall comply with UPC 407.3

Insulate new domestic water lines per the UPC and WSEC

Materials for Domestic water lines, Sanitary DWV, and Grease waste lines shall be UPC approved.

REFERENCE SYMBOLS

	NEW PLUMBING WORK
	EXISTING PLUMBING WORK
	EXISTING PLUMBING WORK TO BE DEMOLISHED
	ENLARGED PLAN BORDER
	MATCHLINE
	SECTION IDENTIFIER
	DETAIL OR DRAWING IDENTIFIER
	REVISION CLOUD INDICATES WHERE SECTION APPEARS
	INDICATES REVISION & NUMBER
	FLAG NOTE
	EQUIPMENT IDENTIFIER
	POINT OF CONNECTION
	NORTH ARROW
	MECHANICAL ACCESS

PLUMBING LINE DESIGNATION SYMBOLS

	DOMESTIC COLD WATER (POTABLE)
	DOMESTIC HOT WATER (POTABLE)
	DOMESTIC HOT WATER CIRCULATING (POTABLE)
	SANITARY SEWER ABOVEGROUND
	SANITARY SEWER UNDERGROUND
	VENT PIPING
	GREASE WASTE ABOVEGROUND
	GREASE WASTE UNDERGROUND
	LOW PRESSURE NATURAL GAS
	MEDIUM PRESSURE NATURAL GAS
	EXISTING MEDIUM PRESSURE NATURAL GAS
	RAIN WATER LEADER
	OVERFLOW RAIN WATER LEADER

PIPING ELEMENTS/VALVING

	VALVE
	CHECK VALVE
	BALANCING VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE (PRV)
	TEMPERATURE/PRESSURE RELIEF VALVE
	RELIEF/SAFETY VALVE
	DIRECTION OF FLOW
	DIRECTION OF PITCH-RISE OR DROP
	STRAINER
	UNION
	PRESSURE GAUGE
	THERMOMETER
	AQUASTAT
	GAUGE WITH GAUGE COCK & SIPHON (STEAM)
	GAS PRESSURE REGULATOR
	EXPANSION JOINT
	FLEXIBLE CONNECTOR
	WATER METER
	GAS METER
	PUMP
	BACKFLOW PREVENTION DEVICE (REDUCED ZONE)
	BACKFLOW PREVENTION DEVICE (DOUBLE CHECK VALVE ASSEMBLY)
	WATER HAMMER ARRESTER
	HOSE BIBB
	ROOF DRAIN
	FLOOR DRAIN
	FLOOR SINK
	CLEAN-OUT (FLOOR)
	CLEAN-OUT (WALL)
	CLEAN-OUT
	PIPE CONTINUES
	PIPE CAP
	VENT THRU ROOF
	TRENCH DRAIN
	PIPE RISING UP
	PIPE DROPPING DOWN
	PIPE CONNECTION
	PIPE CONNECTION DOWN

GENERAL NOTES

- GENERAL:
- COORDINATE MECHANICAL WORK WITH ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL AND LANDSCAPE WORK SHOWN ON OTHER CONTRACT DOCUMENTS. PROVIDE ADDITIONAL OFFSETS FOR COORDINATED INSTALLATION WHERE REQUIRED.
 - COORDINATE HVAC, PLUMBING AND FIRE PROTECTION WORK PRIOR TO INSTALLATION. DUCTWORK AND EQUIPMENT ACCESS TAKES PRECEDENCE OVER PIPING FOR AVAILABLE SPACE.
 - WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
 - COORDINATE EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
 - PROVIDE MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
 - LOCATE VALVES, WATER HAMMER ARRESTERS, CLEANOUTS AND SIMILAR COMPONENTS SO THAT THEY ARE ACCESSIBLE. PROVIDE ACCESS DOORS FOR MECHANICAL EQUIPMENT INSTALLED BEHIND WALLS, ABOVE INACCESSIBLE CEILINGS AND BELOW FLOORS. COORDINATE ACCESS DOOR LOCATIONS WITH ARCHITECT/ENGINEER. INSTALL TAG ON CEILING GRID FRAME TO INDICATE LOCATION AND TYPE OF EQUIPMENT THAT REQUIRES MAINTENANCE. PROVIDE 16 GA. STEEL, FLUSH TYPE ACCESS DOOR WITH CONCEALED HINGE AND SLOT SCREWDRIVER TYPE CAM LATCH. PROVIDE FACTORY PRIMED IN PAINTED SURFACE AREAS FOR FIELD PAINTING. PROVIDE STAINLESS STEEL FOR ALL OTHER AREAS. PROVIDE UL LISTED AND LABELED DOOR WHERE FIRE-RESISTANCE RATINGS IS INDICATED ON DRAWINGS. ACCESS DOOR SHALL BE SIZED SO THAT ADJACENT EQUIPMENT IS ACCESSIBLE. PROVIDE ACUDOR, ELMODOR, MILCOR, OR APPROVED.
 - COORDINATE ATTACHMENTS TO STRUCTURE TO VERIFY THAT ATTACHMENT POINTS ON EQUIPMENT AND STRUCTURE CAN ACCEPT SEISMIC, WEIGHT, AND OTHER LOADS IMPOSED.
 - REFER TO TYPICAL DETAILS PROVIDED IN THIS DWG SET FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR CONFORMANCE WITH DETAILS.
 - LOCATIONS AND SIZES OF FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED. INCLUDE IN THE COST OF MECHANICAL WORK, CUTTING, CORING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, FLOORS AND ROOFS AS REQUIRED TO ACCOMMODATE WORK AS INDICATED IN THE MECHANICAL CONTRACT DOCUMENTS. UNLESS SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS.
 - PROVIDE ELASTOMERIC FOAM MATERIAL ON MECHANICAL EQUIPMENT THAT PRESENT A SAFETY HAZARD.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
 - CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSE BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT. BEFORE SUBSTANTIAL COMPLETION, CLEAN EQUIPMENT, FIXTURES, EXPOSED DUCTS, PIPING AND SIMILAR ITEMS.
 - PROVIDE EQUIPMENT THAT FITS INTO THE SPACE ALLOTTED AND ALLOWS ADEQUATE ACCEPTABLE CLEARANCE FOR INSTALLATION, REPLACEMENT, ENTRY, SERVICING AND MAINTENANCE. COORDINATE WITH OTHER TRADES TO ENSURE NO CONFLICT WITH REQUIRED CLEARANCES.
 - PROVIDE OFFSETS IN PIPING WHERE PLUMBING/PIPING WALL IS LOCATED DIRECTLY ABOVE STRUCTURE. OFFSET PIPING INTO CASEWORK OR SHAFT TIGHT TO WALL AND BACK INTO WALL ONCE BELOW STRUCTURE. REFER TO STRUCTURAL DRAWINGS.
 - BUILDING SPACE IS LIMITED. STRONG ATTENTION TO DETAIL AND CARE MUST BE TAKEN WHEN DEVELOPING SHOP DRAWING SO ROUTING IS COORDINATED WITH OTHER DISCIPLINES.
 - MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- PLUMBING:
- DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIALTIES, PLUMBING EQUIPMENT, PLUMBING FIXTURES, PLUMBING FITTINGS AND ALL OTHER APPURTENANCES IN CONTACT WITH DRINKING WATER SHALL BE LEAD-FREE EXCEPT THOSE EXPLICITLY EXEMPTED IN SECTION 3874 OF THE SAFE WATER DRINKING ACT. LEAD-FREE SHALL MEAN (A) NOT CONTAINING MORE THAN 0.2 PERCENT LEAD WHEN USED WITH RESPECT TO SOLDER AND FLUX; AND (B) NOT MORE THAN A WEIGHTED AVERAGE OF 0.25 PERCENT LEAD WHEN USED WITH RESPECT TO WETTED SURFACES OF DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIALTIES, PLUMBING EQUIPMENT, PLUMBING FIXTURES, AND PLUMBING FITTINGS.
 - PROVIDE WATER HAMMER ARRESTORS IN DOMESTIC WATER PIPING IN ACCORDANCE WITH PDI-WH 201.
 - PROVIDE LINE SIZE STRAINER UPSTREAM OF EACH BACKFLOW PREVENTER, WATER PRESSURE REDUCING VALVE, CONTROL VALVE, SOLENOID VALVE AND PUMP. PROVIDE SHUTOFF VALVE ON EACH SIDE OF STRAINER.
 - VALVES, EXPANSION FITTINGS/LOOPS, AND PIPING SPECIALTIES SHALL BE FULL SIZE OF PIPE UNLESS NOTED OTHERWISE. NON-STRUCTURAL MECHANICAL COMPONENTS:
 - THE FOLLOWING ITEMS ARE TAKEN DIRECTLY FROM THE 2015 INTERNATIONAL BUILDING CODE AND FROM THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD 7-10. THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION, EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID.
 - 2020 IBC 1613.1 SCOPE: ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-10, EXCLUDING CHAPTER 14 AND APPENDIX 11A.
 - 2020 IBC 1705.11 CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.
 - HANGERS AND SEISMIC BRACING FOR THE MECHANICAL SYSTEMS SHALL BE DESIGNED AND PROVIDED BY THE MECHANICAL CONTRACTOR. REFER TO CONTRACTOR SHOP DRAWINGS FOR LOCATIONS OF EQUIPMENT AND HUNG MECHANICAL SYSTEMS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG MECHANICAL SYSTEMS WITH THE GENERAL CONTRACTOR AND OTHER TRADES THAT MAY BE IMPACTED.
- SANITARY PLAN NOTES:
- THE INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE COORDINATED WITH ALL ELECTRICAL AND MECHANICAL EQUIPMENT, AND STRUCTURAL SLAB AND FRAMING.
 - REFER TO PLUMBING SHEET P-601 FOR PLUMBING FIXTURE AND EQUIPMENT SCHEDULES INCLUDING SPECIFICATIONS AND ROUGH-IN SIZES.
 - PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL DRAIN LINES FROM KITCHEN EQUIPMENT. ALL INDIRECT DRAIN LINES SHALL BE INSTALLED WITH APPROVED AIR GAPS.
 - THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSTALLATION OF SODA SLEEVE LINES AND COORDINATION WITH OTHER DISCIPLINES.
 - ALL WALL PIPING STUB-OUTS SHALL BE SECURELY TIED TO THE STRUCTURE WITH SUFFICIENT BACKING TO ELIMINATE MOVEMENT. FINAL CONNECTIONS TO KITCHEN SINKS SHALL BE HARD PIPED.
 - PITCH ALL WASTE AND DRAIN LINES A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW, OR AS REQUIRED BY LOCAL CODE.
 - ALL OPENINGS IN DWV SYSTEMS RESULTING FROM INSTALLATION ROUGH-IN SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
 - PLUMBING CONTRACTOR TO ARRANGE AND PAY FOR ALL REQUIRED FEES, PERMITS, AND MISCELLANEOUS COSTS ASSOCIATED WITH THE PLUMBING WORK PER LOCAL PLUMBING CODES.
 - ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
 - NO COMPRESSION FITTINGS ALLOWED AT DUMPSINK.
 - ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY ADA REQUIREMENTS.
 - ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY ADA REQUIREMENTS.
 - 2 ALL GAS PIPING EXPOSED TO ELEMENTS ON ROOF SHALL BE PAINTED YELLOW.
 - VERIFY ALL EXISTING CONDITIONS PRIOR OR COMMENCEMENT OF WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 - REFER TO ARCHITECTURAL DRAWINGS FOR SLAB PENETRATION DIMENSIONS.

PLUMBING SHEET INDEX

P-001	PLUMBING LEGEND AND GENERAL NOTES
P-101	SANITARY WASTE AND VENT PLAN
P-111	DOMESTIC WATER PLAN
P-121	GAS PLAN
P-501	PLUMBING DETAILS
P-502	RISER DIAGRAMS
P-601	PLUMBING SCHEDULES

FIELD VERIFY ALL CONDITIONS

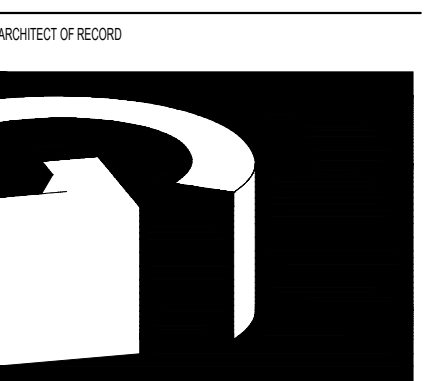
NOTE: AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, PIPING LAYOUTS AND DUCT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF CONDUITS, DUCTS, OR PIPING, AND START OF INSTALLATION OF SAME (INCLUDING SPRINKLER PIPING WHEN PRESENT ON JOB). ANY INSTALLATION OR CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER, ARCHITECT AND/OR GENERAL CONTRACTOR.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



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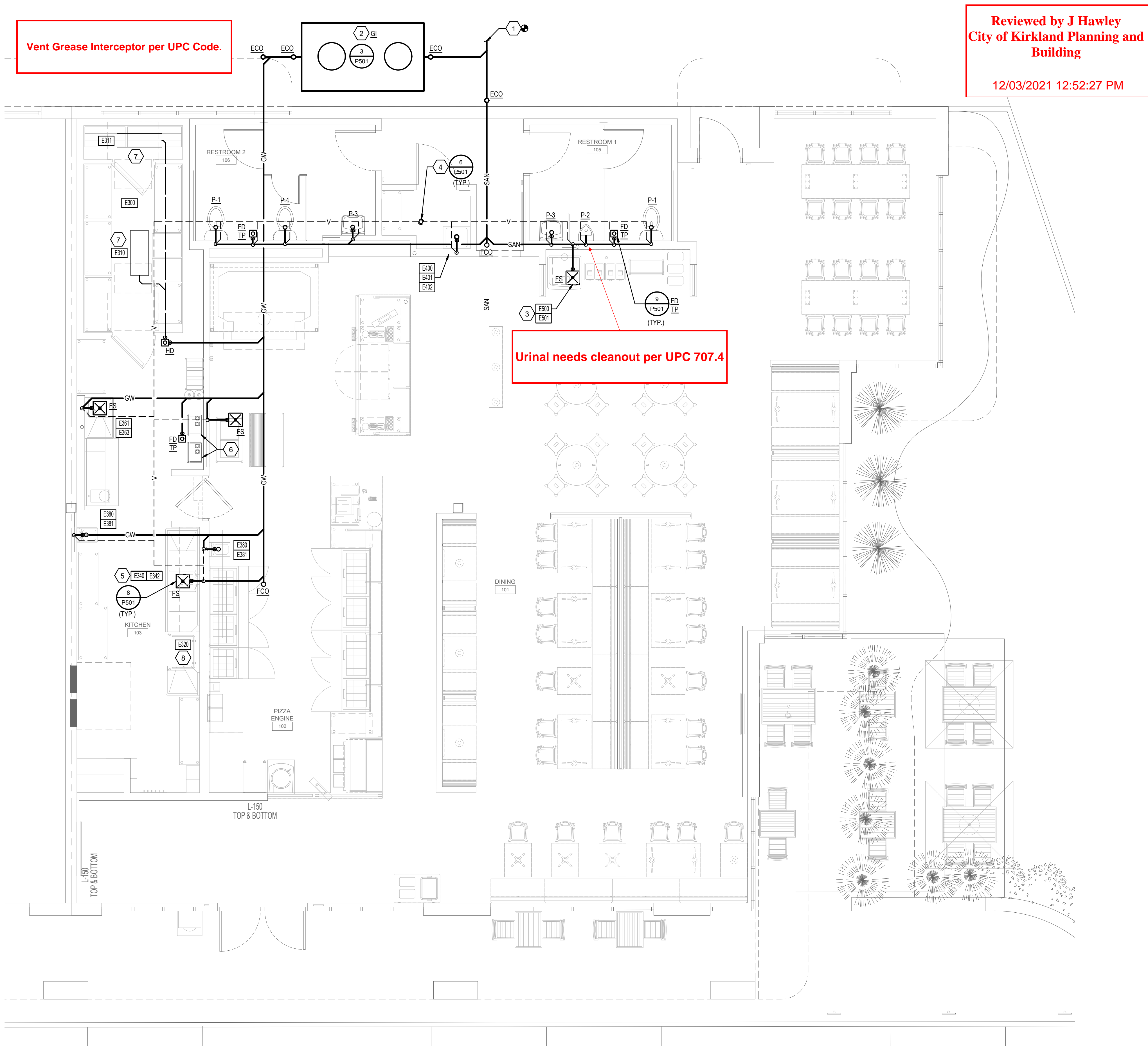
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P-001
 PLUMBING LEGEND AND GENERAL NOTES



Vent Grease Interceptor per UPC Code.

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12/03/2021 12:52:27 PM

Urinal needs cleanout per UPC 707.4

- CODED NOTES:**
- CONNECT SANITARY LINE TO LANDLORD'S EXISTING SANITARY MAIN. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, AND INVERT PRIOR TO BID & CONSTRUCTION WITH LANDLORD REPRESENTATIVE.
 - NEW 1,000 GALLON GREASE INTERCEPTOR. COORDINATE LOCATION WITH LANDLORD REPRESENTATIVE PRIOR TO ROUGH-IN
 - PROVIDE INDIRECT DRAIN FROM ICE BIN TO FLOOR SINK.
 - PROVIDE NEW 3" VENT THRU EXISTING ROOF. MAINTAIN 15'-0" FROM ROOFTOP UNIT OUTSIDE AIR INTAKE.
 - INSTALL DRAIN PIPING TIGHT TO UNDERSIDE OF SINK AND PROVIDE ADEQUATE PIPING AND FITTINGS SUPPORT AND/OR BRACING.
 - PROVIDE NEW GAS INSTANTANEOUS WATER HEATERS. ROUTE T&P DRAIN LINES FROM WATER HEATERS TO FLOOR DRAIN WITH AIR GAP.
 - INSTALL HARD PIPE FOR WALK IN REFRIGERATOR AND FREEZER CONDENSERS. ROUTE TO HUB DRAIN.
 - INDIRECT 2" SANITARY LINE FROM DISHWASHER TO FLOOR SINK.

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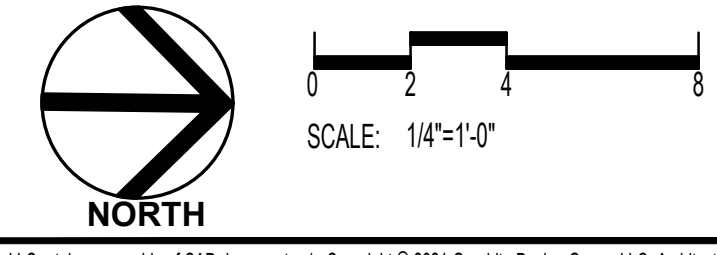
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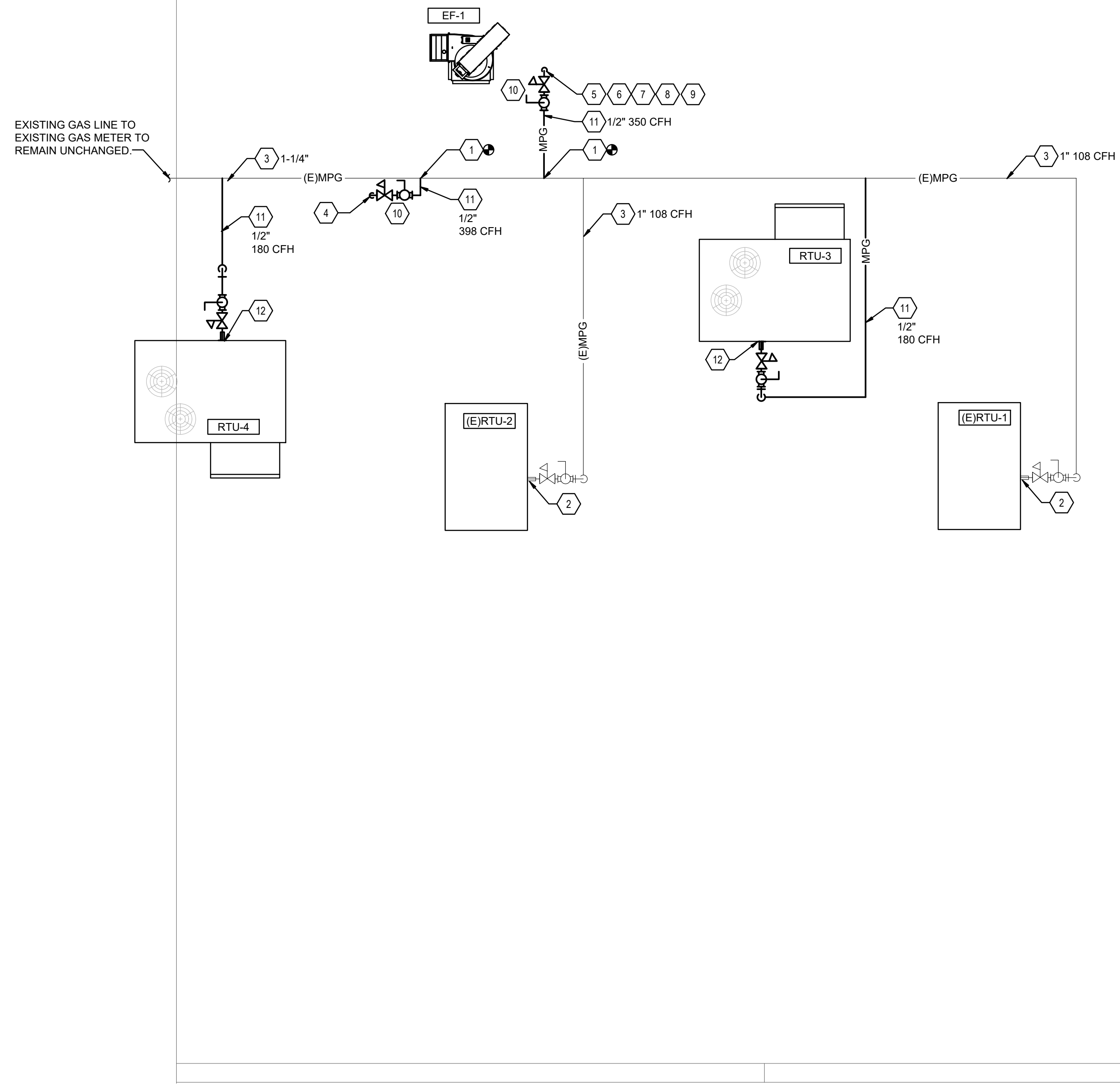
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P-101
SANITARY AND VENT PLAN

PLUMBING - SANITARY/VENT PLAN
1/4"=1'-0"



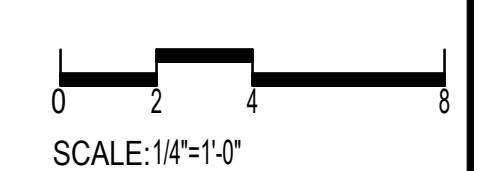
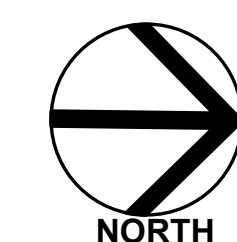


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CODED NOTES

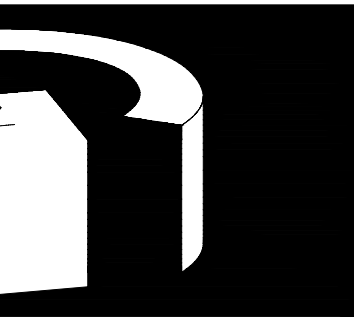
- CONNECT NEW MEDIUM PRESSURE GAS LINE TO EXISTING GAS MAIN. COORDINATE LOCATION, SIZE AND GAS PRESSURE OF EXISTING GAS MAIN WITH LANDLORD REPRESENTATIVE PRIOR TO ROUGH-IN.
- EXISTING GAS LINE, VALVES, ETC TO EXISTING ROOFTOP UNIT TO REMAIN UNCHANGED.
- EXISTING GAS LINE ABOVE ROOF TO REMAIN UNCHANGED.
- EXTEND 1-1/2" LOW PRESSURE GAS LINE FROM GAS REGULATOR DOWN THROUGH ROOF TO TANKLESS WATER HEATERS. REFER TO SHEET P-111 FOR CONTINUATION.
- EXTEND 1-1/2" LOW PRESSURE GAS LINE FROM REGULATOR GAS DOWN THROUGH EXISTING ROOF TO PIZZA OVEN (350 MBH). REFER TO SHEET P-111 FOR LOCATION OF NEW PIZZA OVEN.
- ROUTE LOW PRESSURE GAS LINE OVEN ENCLOSURE TO OVEN GAS CONNECTION.
- INSTALL MECHANICAL SHUT-OFF VALVE BY FIRE SUPPRESSION CONTRACTOR IN VERTICAL GAS SUPPLY TO PIZZA OVEN.
- GAS SOLENOID SHUTOFF VALVE AS PART OF ANSUL SYSTEM.
- OVEN GAS PILOT LIGHT SWITCH IS PRE-WIRED, INCLUDED WITH THE OVEN AND LOCATED ON THE OVEN FACE.
- CONTRACTOR GAS REGULATOR IN GAS LINE AHEAD GAS LINE DOWN EXISTING THROUGH ROOF TO NEW EQUIPMENT.
- ROUTE NEW GAS LINE ABOVE EXISTING ROOF. CONTRACTOR PIPE SUPPORT PER LANDLORD STANDARD. COORDINATE TYPE OF PIPE SUPPORT MANUFACTURER WITH LANDLORD REPRESENTATIVE PRIOR TO ROUGH-IN.
- COORDINATE GAS CONNECTION LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

GAS PLAN
 1/4"=1'-0"



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 KIRKLAND, WA 98033

ISSUED / REVISED DATE
 PERMIT/BID SET 10.15.21

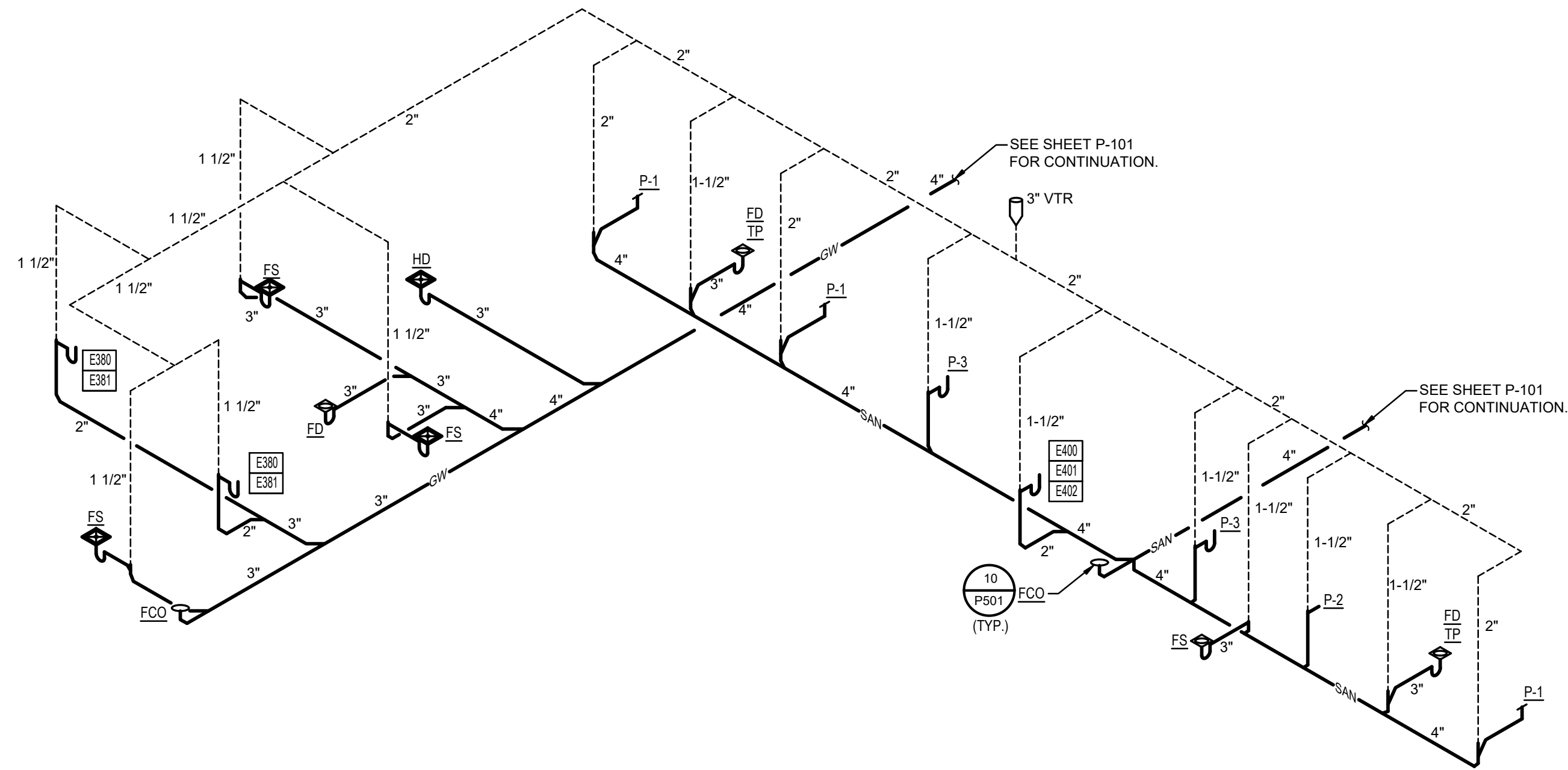
MOD CD TEMPLATE V2.1

PERMIT SET

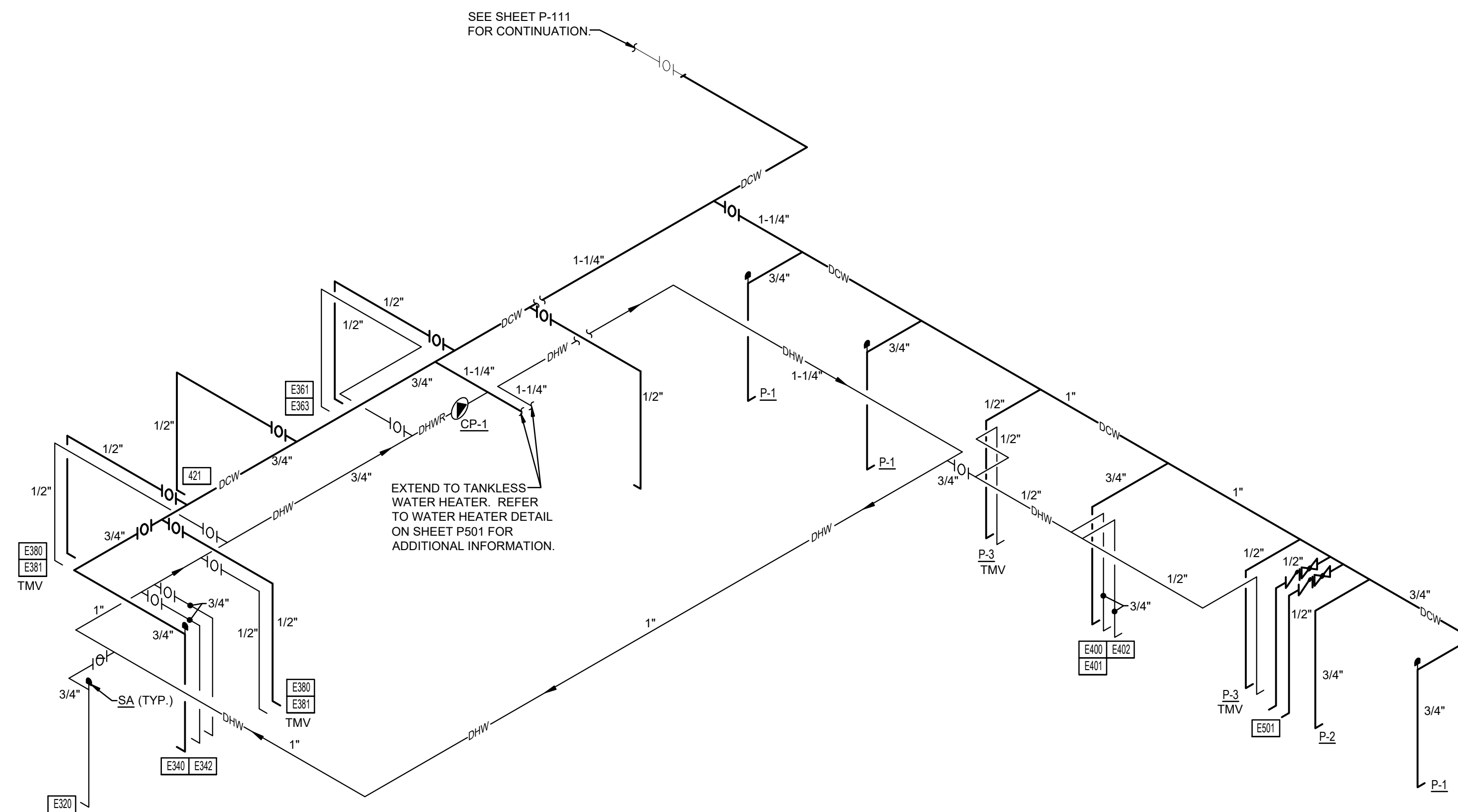
P-121
 GAS PLAN

Reviewed by J Hawley
City of Kirkland Planning and
Building

12/03/2021 1:31:37 PM



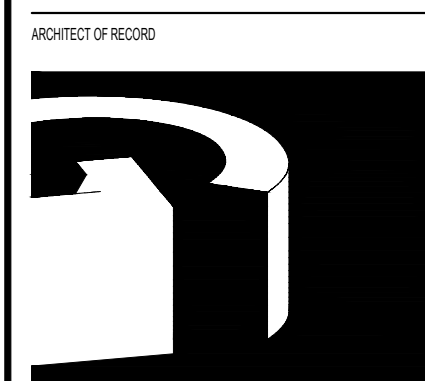
1 SANITARY AND VENT RISER DIAGRAM
NTS



2 DOMESTIC WATER RISER
NTS



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**DOWNTOWN
KIRKLAND**
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED DATE
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PERMIT SET

P-502
PLUMBING RISER DIAGRAMS

WATER HEATER CALCULATION

EQUIPMENT	QTY.	GALLONS/HOUR/DAY	TOTAL
PREP. SINK	1	16.67	16.67
3-COMPARTMENT SINK	1	26.25	26.25
LAVATORY	2	5	10.00
MOP SINK	1	15	15.00
HAND SINK	2	5	10.00
TOTAL			77.92
TOTAL x 80% FOR SINGLE USE UTENSILS			62.34

NOTES:
DISHWASHER TO BE SUPPLIED WITH 6 GALLON BOOSTER TANK AT 14 KW, SEE SPECIFICATION ON THIS SHEET.

GAS EQUIPMENT SCHEDULE

EQUIPMENT	INPUT CAPACITY (MBH)	
PIZZA OVEN	350	
(E) RTU-1	108	
(E) RTU-2	108	
RTU-3	180	
RTU-3	180	
(2) GAS WATER HEATER	398	
TOTAL		1324

NOTES:
1. CONFIRM GAS PRESSURE AT EQUIPMENT IS BETWEEN 7" WATER COLUMN MINIMUM AND 10" WATER COLUMN MAXIMUM AT EQUIPMENT PRIOR TO INSTALLATION AND START UP OF EQUIPMENT, NOTIFY OWNER IF GAS PRESSURE IS OUTSIDE THIS REQUIREMENT.
2. SIZING BASED ON 2PSI AND 100' LENGTH.

3rd Party Backflow reports due at PLM Final

DOMESTIC WATER SUPPLY FIXTURE UNITS

TYPE OF FIXTURE	TYPE OF SUPPLY CONTROL	FIXTURE DESIGNATION	QUANTITY	HW (EACH)	HW (TOTAL)	CW (EACH)	CW (TOTAL)	TOTAL (EACH)	TOTAL FSU'S
ADA WATER CLOSET	VALVE	P1	2	0.00	0.00	3.0	6.00	3	6.00
LAVATORY	FAUCET	P3	2	0.50	1.00	0.5	1.00	1	2.00
ICE MAKER	VALVE	E-501	1	0.00	0.00	0.5	0.50	0.5	0.50
SODA DISPENSER	VALVE	E-500	1	0.00	0.00	0.5	0.50	0.5	0.50
TEA BREWER	VALVE	E-421	1	0.00	0.00	0.5	0.50	0.5	0.50
HAND SINK	FAUCET	E-380	2	0.50	1.00	0.5	1.00	1	2.00
PREP SINK	FAUCET	E-361/ E-362	1	2.00	2.00	2	2.00	3	3.00
3 COMP. SINK	FAUCET	E-340 / E-341	1	2.00	2.00	2	2.00	3	3.00
MOP SINK	FAUCET	E-400	1	2.00	2.00	2	2.00	3	3.00
SERVICE TOTAL FSU'S					8.00		15.50		20.50
DISHWASHER						1.5	1.5		1.5
SERVICE TOTAL GPM									23.0

BACKFLOW DEVICE SCHEDULE

TAG	SERIES	SIZE	TYPE	USAGE	APPROVAL
BFP-1	009QT	2"	REDUCED PRESSURE BACKFLOW PREVENTER	DOMESTIC WATER CONNECTION	ASSE 1015, AWWA 1013
BFP-2	SD-3	3/8"	DUAL CHECK VALVE W/ ATMOSPHERIC VENT	CARBONATED BEVERAGE	ASSE 1022
BFP-3	9D	1/2"	BACKFLOW PREVENTER W/ ATMOSPHERIC VENT	TEA MAKER, COFFEE MACHINE, JUICE DISPENSER, ETC	ASSE 1012
BFP-4	007QTS	1/2"	DUAL CHECK VALVE	NON-CARBONATED BEVERAGE, SOFT SERVE ICE CREAM, WATER FILTER, HUMIDIFIER, EYE WASH, ETC	ASSE 1015
BFP-5	8	3/4"	VACUUM BREAKER	WALL HYDRANT CONNECT VACUUM BREAKER	ASSE 1011
BFP-6	N9-CD	3/4"	DUAL CHECK VACUUM BREAKER	HOSE BIBB	ASSE 1052
BFP-7	008PCQT	1/2"	SPILL RESISTANT VACUUM BREAKER	SOAP DISPENSER, SPECIALTY SINK, CLEANING EQUIPMENT, DISHWASHER	ASSE 1056

NOTES:
1. BASED ON WATTS.
2. CONTRACTOR TO VERIFY EXACT REQUIREMENTS OF ALL REQUIRED BACKFLOW DEVICES AND FIXTURES WITH AUTHORITIES HAVING JURISDICTION PRIOR TO BID.

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FIXTURE		FAUCET		CONNECTIONS (BY PLUMBING CONTRACTOR)						ACCESSORIES / REMARKS	
		MANUF.	MODEL NUMBER	MANUF.	MODEL NUMBER	TRAP	DIRECT WASTE	INDIRECT WASTE	VENT	CW	HW		
E-107	PIZZA OVEN	WOOD STONE	FD-9660-RFGLR-IR	-	-	-	-	-	-	-	-	-	GAS LOAD: 350 MBH.
E-300-ST	WALK-IN COOLER/FREEZER	NORLAKE	CUSTOM	-	-	-	-	1"	-	-	-	-	ROUTE CONDENSATE DRAIN CONNECTION TO DISCHARGE INTO HUB DRAIN WITH AIR GAP.
E-310	CAPSULE PAK REFRIGERATION UNIT COOLER	NORLAKE	RCPB100JC-S-4-EV	-	-	-	-	-	-	-	-	-	INSTALLED ON TOP OF WALK-IN COOLER, REFER TO INSTALLATION MANUAL.
E-311	CAPSULE PAK REFRIGERATION UNIT FREEZER	NORLAKE	RCPF075JC-S-4-EV	-	-	-	-	-	-	-	-	-	INSTALLED ON TOP OF WALK-IN FREEZER, REFER TO INSTALLATION MANUAL.
E-320	DISHWASHER	ECOLAB	ES-2000HT	-	-	-	-	2"	1-1/2"	-	3/4"	-	WITH VAPOR VENT OPTION, 6 GALLON BOOSTER TANK @ 14KW, 37 RACKS PER HOUR. CONTRACTOR SHALL PROVIDE ROUGH-IN PRIOR TO INSTALLATION BY VENDOR WITH FINAL CONNECTIONS BY CONTRACTOR.
E-340 E-342	3-COMP SINK, FAUCET & SPRAYER	JOHN BOOS & CO	16-DDTS-90 3-COMP SOILED L/R	FISHER	PRERINSE SPGCT 8BSLH 16SS - MODEL 73135	-	-	2"	-	3/4"	3/4"	-	
E-343	3-COMP SINK DISPENSER	SSDC	SINK RITE DOUBLE UNIT	-	-	-	-	-	-	-	-	3/4"	-
E-361 E-363	PREP SINK & FAUCET	FENIX SOL	18G-1C1620-D18 1 COMP SINK L/R	FISHER	3252	-	-	2"	1-1/2"	3/4"	3/4"	-	
E-380 E-381	HAND SINK & FAUCET	FENIX SOL	HS-SEHS-17	FISHER	3526	1-1/2"	2"	-	1-1/2"	1/2"	1/2"	-	REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS
E-400 E-401	MOP SINK & FAUCET	ELKAY FOOD SERVICE	FLR-3X	FISHER	8253	3"	3"	-	1-1/2"	3/4"	3/4"	-	16 GAUGE, 300 SERIES STAINLESS STEEL TUB WITH 18 GAUGE STAINLESS STEEL SKIRT, 16"x20"x12" DEEP, 3-1/2" DRAIN OPENING, STAINLESS STEEL FLAT GRID STRAINER, MOP SINK SUPPLIED AND INSTALLED BY GC.
E-402	MOP SINK DISPENSER	SSDC	MOP RITE 3	-	-	-	-	-	-	-	-	3/4"	-
E-421	TEA BREWER & DISPENSER	BUNN	36700.0059 TB3Q, 34100.0000 TD0-4	-	-	-	-	-	-	-	1/2"	-	3 GALLON, STAINLESS STEEL, PROVIDE WITH TD0-4 HANDLED DISPENSE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.
E-428	COKE BIB RACK	MCCANNIS	IC 44239	-	-	-	-	-	3/4"	-	1/2"	-	-
E-500	SODA MACHINE	CORNELIUS	DF 200 PART #621053001	-	-	-	-	-	3/4"	-	1/2"	-	REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS
E-501	ICE MACHINE	ICE - O - MATIC	GEM0956A	-	-	-	-	-	3/4"	-	1/2"	-	REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS. INSTALL WATER FILTER MANFOLD AND WATER FILTER FOR ICE MACHINE.
P-1	WATER CLOSET (ADA)	KOHLER	K-3493	-	-	INTEGRAL	4"	-	2"	3/4"	-	-	VITREOUS CHINA, TWO-PIECE, FLOOR MOUNT, TANK TYPE, 17" HIGH ELONGATED BOWL, PRESSURE-ASSIST, CLOSE COUPLED FLUSHOMETER TANK, 2 BOLT SYSTEM, 1.6 GPF, POLISHED CHROME TRIP LEVER INSTALLED ON WIDE SIDE OF STALL, ADA.
P-2	URINAL	KOHLER	DEXTER 5016	ZURN	ZER6003AV- EWS-CPM	INTEGRAL	2"	-	1-1/2"	3/4"	-	-	VITREOUS CHINA WALL HUNG, REAR OUTLET, TOP SPUD, 0.5 GPF FLOW RATE, LOW CONSUMPTION, ADA.
P-3	LAVATORY (ADA) & FAUCET	KOHLER	GREENWICH 2032	CHICAGO	2200-4ABC9	2"	2"	-	1-1/2"	1/2"	1/2"	-	VITREOUS CHINA WALL HUNG, ADA, FRONT OVERFLOW, D-SHAPED BOWL, CONCEALED ARM SUPPORTS, 4" O.C. FAUCET HOLES, LEVER HANDLE FAUCET, 0.5 GPM FLOW RATE, USE MCGUIRE 165 WHEEL HANDLE.
FCO	FLOOR CLEANOUT	WADE	600-STD	-	-	-	-	-	-	-	-	-	GAS-TIGHT AND WATER-TIGHT TAPERED THREADED PLUG AND ROUND POLISHED NICKEL BRONZE SCORIATED ADJUSTABLE TOP.
FD	FLOOR DRAIN	ZURN	Z415-SZ	-	-	3"	3"	-	1-1/2"	-	-	-	Z1000 DEEP SEAL TRAP
FS	FLOOR SINK	ZURN	Z1901-2	-	-	3"	3"	-	2"	-	-	-	12"x12", 8" SUMP DEPTH, LIGHT DUTY HALF GRATE, CAST IRON BODY, DOME STRAINER, NO HUB, ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP.
HB	HOSE BIBB	WOODFORD	24C	-	-	-	-	-	-	3/4"	-	-	ANTI-SIPHON VACUUM BREAKER BRASS EXTERIOR FINISH, WHEEL HANDLE WITH OPTIONAL LOOSE KEY TEE, TEFLON IMPREGNATED PACKING AND STANDARD 'O' RING, 125 PSI MAX. PRESSURE.
HD	HUB DRAIN	ZURN	Z-211-S	-	-	2"	2"	-	1-1/2"	-	-	-	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET HUB DRAIN.
TMV	THERMOSTATIC MIXING VALVE	SYMMONS	MAXLINE 5-225-CK-MS 2GPM @ 10PSI	-	-	-	-	-	-	1/2"	1/2"	-	SCREWDRIVER ADJUSTMENT TO ADJUST TEMP. MAX. 110° F. STEM THERMOMETER ON INLET, VOLUME CONTROL, SHUT OFF VALVE ON OUTLET, CHECK VALVE ON INLETS, ASSE 1070 RATED.
TP	TRAP PRIMER	PRECISION PLUMBING PRODUCTS	P-2	-	-	-	-	-	-	1/2"	-	-	COPPER BODY, ADJUSTABLE WITH 1/2" COPPER TYPE "L" TO FLOOR DRAIN.
WCO	WALL CLEANOUT	WADE	8480-C	-	-	-	-	-	-	-	-	-	CLEANOUT TEE W/ WALL ACCESS COVER, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT BRONZE PLUG AND STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.

NOTES:
1. NOT ALL ITEMS IN SCHEDULE ARE USED, REFER TO PLUMBING PLANS FOR QUANTITIES AND LOCATIONS

**Reviewed by J Hawley
City of Kirkland Planning and
Building
12/03/2021 1:31:56 PM**

GAS WATER HEATER SCHEDULE

TAG	QTY.	MANUFACTURE/ MODEL	FLOW RATE AT 100°F (GPM)	TEMP SETTING (°F)	CAPACITY	CW INLET (IN)	HW OUTLET (IN)	ELECTRICAL		DIMENSIONS L" x W" x H"	WEIGHT (LBS)	NOTES
								FLA (AMPS)	VOLTAGE/PHASE (V/Ø)			
E-431	2	NORITIZ / NCC199CDV	3.9	120	0.65	3/4	3/4	4	120V/1Ø	18.5x13x27	81	1, 2, 3

NOTES:
1. PROVIDE WITH HEAT TRAPS ON SUPPLY AND DISCHARGE LINES.
2. MOUNT WATER HEATER ON WALL AS INDICATED ON ARCHITECTURAL DRAWINGS.
3. PROVIDE C60 WH-2-NG DUAL WATER HEATER WALL MOUNTING KIT.

RECIRCULATION PUMP SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER/MODEL	ELECTRICAL				NOTES
				HP	RPM	FLA (AMPS)	VOLTAGE/PHASE	
CP-1	DOMESTIC HOT WATER	KITCHEN	ARMSTRONG ASTRO 220SU075S-TA	-	-	1.75	120/1	1, 2

NOTES:
1. PROVIDE WITH PROGRAMMABLE TIMER CONTROLS FOR PROGRAMMED SHUTDOWN.
2. PROVIDE THREADED QUICK DISCONNECTS (UNIONS) AND SHUT OFF VALVES ON BOTH THE INLET AND OUTLET OF THE RECIRCULATING PUMP FOR QUICK ISOLATION AND REMOVAL SERVICING / MAINTENANCE.

EXPANSION TANK SCHEDULE

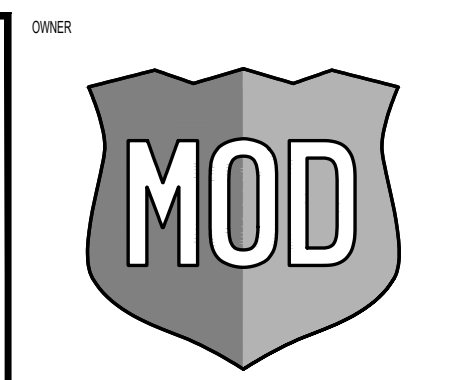
TAG	SYSTEM SERVED	LOCATION	MANUFACTURER/MODEL	VOLUME (GALLONS)	SYSTEM CONNECTION (IN)
ET-1	DOMESTIC HOT WATER	KITCHEN	AMTROL / THERM-X-TROL ST-12V	4.4	1/2

GREASE INTERCEPTOR CALCULATIONS

SYMBOL	FIXTURE TYPE	COMPARTMENT QUANTITY	L	W	D	VOLUME (CU. IN.)	VOLUME (GALLONS)	% FULL	DRAIN TIME (MINUTES)	DRAINAGE LOAD (GALLONS)
E-400	MOP SINK	1	20	28	12	6720	29.1	0.75	2	10.9
E-361 / E-362	PREP SINK	1	17	24	14	5712	24.7	0.75	2	9.3
E-340 / E-341	3-COMP SINK	3	18	24	14	18144	78.5	0.75	2	29.5
E-380	HAND SINK	2	9	12	6	1296	5.6	0.75	2	2.1
*TOTAL FIXTURE FLOW RATE (GPM):										49.6
SYMBOL	FIXTURE TYPE	QUANTITY	FLOW CAPACITY (GPM)		FLOW RATE (GPM)					
FD	FLOOR DRAIN	4	2		8					
FS	FLOOR SINK	4	2		8					
E-320	DISHWASHER	1	1		1.0					
MAXIMUM FLOW RATE (GPM)					67					

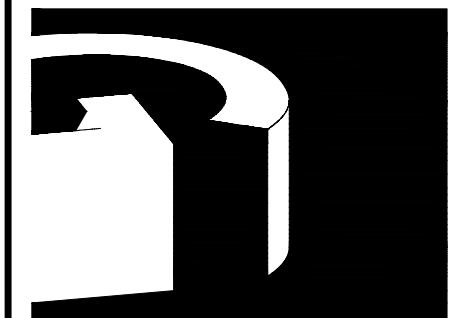
DRAINAGE FIXTURE UNITS SCHEDULE

TYPE OF FIXTURE	FIXTURE DESIGNATION	QUANTITY	FIXTURE UNIT (EACH)	MINIMUM FIXTURE TRAP AND DRAIN SIZE	TOTAL FIXTURE UNITS
ADA WATER CLOSET	P1	3	4	4"	12.0
URINAL	P2	1	1	2"	4.0
LAVATORY	P3	2	1	1-1/4"	2.0
HAND SINK	E-380	2	2	1-1/2"	4.0
PREP SINK	E-361	1	2	1-1/2"	2.0
3 COMP. SINK	E-340	1	2	1-1/2"	2.0
MOP SINK	E-400	1	2	1-1/2"	2.0
FLOOR DRAIN	FD	4	3	2"	12.0
FLOOR SINK	FS	4	6	4"	24.0
TOTAL DRAINAGE FIXTURE UNITS					64



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MOD CD TEMPLATE V2.1

PERMIT SET

P-601
PLUMBING SCHEDULES

ELECTRICAL WORK NOT REVIEWED
UNDER BUILDING PERMIT

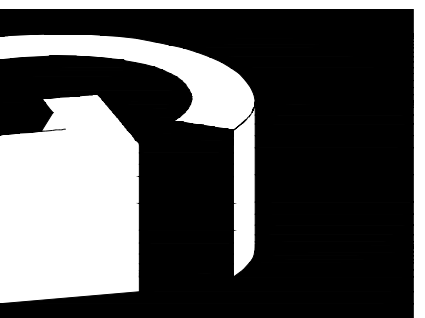
ELECTRICAL SHEET INDEX	
E-001	ELECTRICAL LEGENDS AND DETAILS
E-002	ENERGY COMPLIANCE FORMS
E-003	ENERGY COMPLIANCE FORMS
E-111	ELECTRICAL LIGHTING PLAN
E-112	POWER AND LOW VOLTAGE PLAN
E-601	LOW VOLTAGE DETAILS
E-602	LIGHTING CONTROL DETAILS
E-601	ELECTRICAL SCHEDULES
E-602	RISER DIAGRAM AND PANEL SCHEDULES

SYMBOL LEGEND																					
<table border="1"> <thead> <tr> <th>POWER RECEPTACLE OUTLETS</th> <th>LIGHTING OUTLETS</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> ⊕ DUPLEX ⊕⊕ DOUBLE DUPLEX ⊕⊕ SINGLE SPECIAL PURPOSE ⊕⊕ DUPLEX GFCI ⊕⊕⊕ DOUBLE DUPLEX GFCI RECEPTACLE ⊕⊕⊕ DUPLEX OVER COUNTER (VERIFY HEIGHT) ⊕⊕⊕ DUPLEX GFCI OVER COUNTER (VERIFY HEIGHT) ⊕⊕ CEILING-MOUNTED DUPLEX ⊕ JUNCTION BOX WITH BLANK COVER ⊕ FLOOR MOUNTED RECEPTACLE </td> <td> <ul style="list-style-type: none"> ○ ● RECESSED DOWNLIGHT ▭ RECESSED FLUORESCENT ⊕⊕⊕ PENDANT MOUNTED FIXTURE OR CHANDELIER ⊕⊕⊕ TRACK LIGHT (LENGTH AS SHOWN ON PLAN) ⊕⊕ WALL MOUNTED VAPOR JAR LAMP ⊕ SURFACE CEILING MOUNTED MONOPOINT FIXTURE. ARROW INDICATES DIRECTION TO AIM HEAD ⊕⊕ COMBO EXIT SIGN / EGRESS FIXTURE. ⊕⊕ DUAL HEAD EMERGENCY EGRESS FIXTURE ⊕ EMERGENCY EGRESS FIXTURE </td> </tr> <tr> <td colspan="2" style="text-align: center;">SWITCH OUTLETS & CONTROL DEVICES</td> </tr> <tr> <td> <ul style="list-style-type: none"> ⊕ CIRCUIT BREAKER PANEL ⊕ SWITCHBOARD OR MOTOR CONTROL CENTER ⊕ TERMINAL CABINET ⊕ DISCONNECT SWITCH ⊕ FUSED DISCONNECT SWITCH ⊕ FAN CONNECTION ⊕ EQUIPMENT CONNECTION ⊕ MOTOR CONNECTION </td> <td> <ul style="list-style-type: none"> S SINGLE-POLE S₃ THREE-WAY S₄ FOUR-WAY S₅ DIMMER S_{ps} PILOT-LIGHTED S_k KEY-OPERATED S_m MECHANICAL EQUIP. S_p PUSHBUTTON </td> </tr> <tr> <td colspan="2"> <table border="1"> <thead> <tr> <th>COMMUNICATIONS SYMBOLS</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> ⊕ DATA/COMM OUTLET (NUMBER INDICATES QUANTITY OF JACKS). TTB TELEPHONE TERMINAL BOARD - 3/4" FIRE RESISTANT PLYWOOD </td> </tr> </tbody> </table> </td> </tr> <tr> <td colspan="2" style="text-align: center;">ABBREVIATIONS</td> </tr> <tr> <td> <ul style="list-style-type: none"> AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION AL ALUMINUM ATS AUTOMATIC TRANSFER SWITCH BOH BACK OF HOUSE CKT CIRCUIT CLG CEILING C.O. CONDUIT ONLY CLP CURRENT LIMITING PANEL CU COPPER DF DRINKING FOUNTAIN DW DISHWASHER E.C. ELECTRICAL CONTRACTOR EXTG EXISTING (E) EXTG. TO REMAIN FOH FRONT OF HOUSE FLR FLOOR GFCI GROUND FAULT CIRCUIT INTERRUPTER GND GROUND HWT HOT WATER HEATER LCP LIGHTING CONTROL PANEL LTS LIGHTS </td> <td> <ul style="list-style-type: none"> M.C. MECHANICAL CONTRACTOR MSC MULTI SCENE CONTROLLER MW MICROWAVE N3R NEMA 3R (WP) NIC NOT IN CONTRACT NL NIGHT LIGHT O.C. ON CENTER O.F.O.I. OWNER FURNISHED, OWNER INSTALLED PNL PANEL POS POINT OF SALE PP POWER POLE PUD PUBLIC UTILITY DISTRICT PV PHOTOVOLTAIC REC RECEPTACLES REF REFRIGERATOR (R) RELOCATED EXISTING RQMTS REQUIREMENTS TBD TO BE DETERMINED TTB TELEPHONE TERMINAL BOARD WC WATER COOLER WP WEATHER PROOF U.O.N. UNLESS OTHERWISE NOTED XFMR TRANSFORMER </td> </tr> <tr> <td colspan="2" style="text-align: center;">CIRCUITING</td> </tr> <tr> <td colspan="2"> <ul style="list-style-type: none"> — WIRING CONCEALED IN CEILING OR WALL - - - - WIRING CONCEALED IN FLOOR OR UNDERGROUND — — NUMBER OF CONDUCTORS — — BRANCH CIRCUIT HOMERUN — — BRANCH CIRCUIT CONTINUES ELSEWHERE (NOTED) — — GROUNDING ELECTRODE —LV— LOW VOLTAGE — — ISOLATED GROUND WIRE </td> </tr> </tbody> </table>		POWER RECEPTACLE OUTLETS	LIGHTING OUTLETS	<ul style="list-style-type: none"> ⊕ DUPLEX ⊕⊕ DOUBLE DUPLEX ⊕⊕ SINGLE SPECIAL PURPOSE ⊕⊕ DUPLEX GFCI ⊕⊕⊕ DOUBLE DUPLEX GFCI RECEPTACLE ⊕⊕⊕ DUPLEX OVER COUNTER (VERIFY HEIGHT) ⊕⊕⊕ DUPLEX GFCI OVER COUNTER (VERIFY HEIGHT) ⊕⊕ CEILING-MOUNTED DUPLEX ⊕ JUNCTION BOX WITH BLANK COVER ⊕ FLOOR MOUNTED RECEPTACLE 	<ul style="list-style-type: none"> ○ ● RECESSED DOWNLIGHT ▭ RECESSED FLUORESCENT ⊕⊕⊕ PENDANT MOUNTED FIXTURE OR CHANDELIER ⊕⊕⊕ TRACK LIGHT (LENGTH AS SHOWN ON PLAN) ⊕⊕ WALL MOUNTED VAPOR JAR LAMP ⊕ SURFACE CEILING MOUNTED MONOPOINT FIXTURE. 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10/14/2021



DOWNTOWN KIRKLAND
 230 MAIN STREET
 KIRKLAND, WA 98033

ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

E-001
ELECTRICAL LEGENDS AND
DETAILS

Lighting Summary **LTG-SUM**

2018 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1 Revised Mar 2021 rev. 1

Project Title: MOD Pizza - Kirkland **Date:** 9/30/2021

Project Info: **Compliance forms do not require a password to use.** Instructional and calculating cells are write-protected.

Applicant Information: Provide contact information for individual who can respond to inquiries about compliance form information provided.
Company Name: M-Engineering
Company Address: 750 Brooksedge Blvd, Westerville, OH 43081
Applicant Name: Jeffrey Holley
Applicant Phone: 614-839-4639
Applicant Email: jholley@mengineering.us.com

Project Description: New Building Addition Alteration No Lighting Scope
 Include PRQJ-SUM form (included in envelope forms workbook) with lighting compliance forms.

Interior Lighting System Description: nLight Lighting System with local controls
 Interior Lighting Plans Included

Interior Lighting Power Allowance Method: Building Area Method Space-by-space Method
 Select method used in project.

Interior Lighting Controls: All C405.2, Item 1 Lighting Controls C405.2, Item 2 Luminaire Level Lighting Control (LLLC)
 Additional Efficiency Package Option
 C406.4 Enhanced Digital Lighting Controls
 To comply with C406.4, no less than 90% of the total installed interior lighting power shall comply with the required controls per C406.4.

Sleeping / Dwelling Unit Interior Lighting: Area of multifamily dwelling units complying with C405.1.1 and C405.7
 Area of all other dwelling and sleeping units complying with C405.1.1 and C405.2.5
 Area of all other dwelling and sleeping units complying with C405.5 and C405.2.5

Exterior Lighting System Description:
 Exterior Lighting Plans Included

Building Additions: **Compliance Method:** Interior lighting Exterior lighting
 Lighting systems in addition area comply with all applicable provisions as a stand alone new construction project
 Lighting systems in addition are combined with existing building lighting systems to demonstrate compliance
Addition is combined with existing:
 For interior lighting projects, include new + existing-to-remain interior lighting fixture wattage in Proposed Lighting Wattage table in LTG-INT-BLD or LTG-INT-SPACE form.
 For exterior lighting projects, include new + existing-to-remain exterior lighting fixture wattage in Proposed Tractable and Proposed Non-Tractable Lighting Wattage tables in LTG-EXT form.

Interior Lighting - Space-By-Space Method **LTG-INT-SPACE**

2018 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1 Revised Mar 2021 rev. 1

Project Title: MOD Pizza - Kirkland **Date:** 9/30/2021

Calculation Area: New Construction Addition - stand alone Addition - existing Spaces where < 20% of luminaires are replaced Spaces where > 20% of luminaires are replaced Spaces where the Use is changing (C505)

LPA Calculation Type: Standard C406.3.1 Reduced LPA 10% C406.3.2 Reduced LPA 20%

To comply with C406.3.1 or C406.3.2, the Proposed LPD shall be 10% or 20% lower respectively than the Target LPA. Refer to C406.3 for additional requirements.

Maximum Allowed Lighting Wattage:

Location (plan #, room #)	Space Type	Gross Interior Area in ft ²	Allowed Watts per ft ²	Watts Allowed (watts/ft ² x area)
Pizza Engine	Food preparation	623	0.900	611
Dining	Dining area: family dining area	1920	0.540	1037
Kitchen	Food preparation	494	0.900	484
Restrooms	Restroom: all other	238	0.570	136
Total Area		3275		
Retail Display Allowance from LTG-INT-DISPLAY				
Art/Display/Exhibit/Ornamental Extra Lighting from LTG-INT-DISPLAY		160		2268

Proposed Lighting Wattage:

Location (plan #, room #)	Fixture Description	Number of Fixtures	Watts/Fixture	Watts Proposed
Pizza Engine	L-101 LED Downlight	26	14	351
Pizza Engine	L-102 LED Adjustable Downlight	9	8	72
Dining	L-110 LED Track Lights, 16W/FT	40	16	640
Dining	L-150 Tape Lighting, 5.5W/FT	21	6	116
Dining	L-202 LED Pendant	17	17	289
Dining	X-L-428	3	20	60
Dining	L-430 LED Pendant	4	15	60
Kitchen	L-250 2x4 LED	4	36	144
Kitchen	L-260, LED Freezer Light	2	19	38
Kitchen	L-261, 4' Freezer/Cooler Strip (C405.3.1)(#110)	1		
Restrooms	L-101 LED Downlight	6	14	81
Restrooms	L-490 Wall Sconce	2	18	36
Proposed Retail Display Lighting from LTG-INT-DISPLAY				
Total Proposed Watts may not exceed Total Allowed Watts for Interior Lighting				1887
Interior Lighting Power Allowance		COMPLIES WITH C406.3.1		

Interior Display Lighting - Space-by-Space **LTG-INT-DISPLAY**

2018 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1 Revised Mar 2021 rev. 1

Project Title: MOD Pizza - Kirkland **Date:** 9/30/2021

General Note: In Sales areas, an increase in lighting power allowance is permitted for lighting installed specifically for the purpose of highlighting merchandise. Only Sales areas illuminated with eligible merchandise display lighting may be included in the Gross Interior Area under each Retail category. This lighting power allowance is the Maximum Retail Display Allowance OR the Total Retail Proposed Display Watts, whichever is less. Proposed retail display lighting wattage that exceeds this allowance is applied to general area lighting.

Maximum Allowed Retail Display Lighting Wattage:

Location (plan #, room #)	Retail Sales Area Type	Gross Interior Area in ft ²	Allowed Watts per ft ²	Watts Allowed (watts/ft ² x area)
Total Retail With Display Area				
Retail Display Lighting Base Allowance				
Maximum Retail Display Allowance				

Proposed Retail Display Lighting Wattage:

Retail Area	Location (plan #, room #)	Fixture Description	Number of Fixtures	Watts per Fixture	Watts Proposed
Total Retail Proposed Display Watts					
Retail Display Power Allowance					
Proposed Retail Display Lighting Totals from LTG-INT-DISPLAY					
Retail 1	Retail 2	Retail 3	Retail 4		

- Notes:**
- Note 1 - Select retail sales areas from drop down menu. Only retail sales areas that comply with C405.4.2.2.1 may be entered in this table.
 - Note 2 - Retail display lighting power allowance per C405.4.2.2.1, Equation 4-11.
 - Note 3 - When Watts Allowed indicates "Null" no proposed lighting has been entered. Enter lighting fixture information for retail sales area in Proposed Lighting Wattage table to generate Lighting Power Allowance.
 - Note 4 - Maximum retail display wattage allowance as calculated per C405.4.2.2.1, Equation 4-11.
 - Note 5 - Only separately controlled retail display fixtures that are independent of general area lighting per C405.4.2.2.1 may be entered in this table.
 - Note 6 - For proposed Fixture Description, list ALL proposed display lighting fixtures. Indicate fixture type, lamp type (e.g. T-8), number of lamps in the fixture, and ballast type (if included). For track lighting, list the length of the track (in feet) in addition to the fixture, lamp, and ballast information.
 - Note 7 - For proposed Watts/Fixture enter the luminaire wattage for installed lamp and ballast using manufacturer or other approved source. For luminaires with screw-in lamps, enter the input wattage of the installed lamps. For low voltage lighting, enter the wattage of the transformer. For line voltage track/busway systems, enter the larger of the attached luminaire wattage or 16 watts/linear foot, or enter the wattage limit of permanent current limiting device.
 - Note 8 - Total Retail Proposed Display Watts is automatically entered into the Proposed Fixture Wattage table in LTG-INT-SPACE.
 - Note 9 - Retail display lighting power allowance is the lesser of the Maximum Retail Display Allowance OR the Total Retail Proposed Display Watts. Retail display wattage allowance is automatically entered in the Maximum Allowed Lighting Wattage table in LTG-INT-SPACE.
 - Note 10 - Enter a unique name for each qualifying area in the project that has separately controlled lighting qualifying for additional lighting allowance. The same room may not be entered twice. All data fields must be entered to generate the maximum display allowance.
 - Note 11 - Additional wattage allowances per Table C405.4.2(2), footcandles c (0.5 W/ft²), m (4.5 LF), n (0.30 W/ft²) & q (0.25 W/ft²).
 - Note 12 - Proposed additional allowance lighting totals for each space per information entered into Proposed Art/Display/Exhibit/Ornamental Lighting Wattage table.
 - Note 13 - Only separately controlled fixtures serving spaces and purposes qualifying for additional lighting power allowance by footcandles c, m, n and q, that are independent of general area lighting, may be entered in this table.
 - Note 14 - Additional Art/Display/Exhibit/Ornamental Allowance is automatically entered in the appropriate LTG-INT-SPACE field.

Lighting Summary, cont. **LTG-SUM**

2018 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1 Revised Mar 2021 rev. 1

Project Title: MOD Pizza - Kirkland **Date:** 9/30/2021

Change of Space Use: Existing interior lighting systems in areas under-going a change in space use are upgraded to comply with LPAs for the new space types per Tables C405.4.2(1) or C405.4.2(2).
 Identify interior spaces requiring LPD upgrade to the current Code in Proposed Lighting Wattage table in LTG-INT-BLD or LTG-INT-SPACE form.

Interior and Exterior Lighting Alterations:

Lighting Power	Interior lighting	Parking garage	Exterior lighting
Spaces with more lighting than threshold added, altered or replaced (20% int., 20% garage, 20% ext.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spaces with less lighting than threshold added, altered, or replaced (20% int., 20% garage, 20% ext.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lamp and/or ballast replacement only - existing total wattage not increased	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
More lighting than threshold replaced - Total lighting power of new + existing-to-remain fixtures shall comply with total LPA per Sections C405.4.2 and C405.5.3. Include new + existing-to-remain fixtures in Proposed Lighting Wattage table in LTG-INT-BLD, LTG-INT-SPACE or LTG-EXT form.			
Less lighting than threshold replaced - Total lighting power of new + existing-to-remain fixtures shall not exceed the total lighting power prior to alteration. Include new + existing-to-remain fixtures in the Proposed Lighting Wattage table in LTG-INT-BLD, LTG-INT-SPACE or LTG-EXT form.			
The threshold for interior lighting is 20% of the luminaires within an enclosed space, for parking garages the threshold is 20% of the luminaires within the garage, and for exterior spaces the threshold is 20% of the total installed lighting power for the exterior luminaires.			
Lighting Controls	Interior lighting	Parking garage	Exterior lighting
New wiring installed to serve added fixtures and/or fixtures relocated to new circuit(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New or moved lighting panel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interior space is reconfigured - luminaires unchanged or relocated only	<input type="checkbox"/>		
New wiring or circuit. For interior lighting, provide required manual controls per C405.2.3, occupancy sensor controls per C405.2.1, daylight responsive controls per C405.2.4 and application specific lighting controls per C405.2.5. For exterior lighting, provide required controls per C405.2.6.			
New or moved panel. Provide all applicable lighting controls as noted for New Wiring and automatic time switch controls per C405.2.2.			
Reconfigured interior space. Provide all required lighting controls that apply to a new interior space. Application specific lighting control provisions per C405.2.5 do not apply to reconfigured spaces.			

No changes are being made to the interior or exterior lighting systems and existing space uses and configuration are not changed.

- Notes:**
- Note 1 - List all unique space types per Table C405.4.2(2) that occur in the project scope. Select space type category from drop down menu.
 - Note 2 - Indicate ceiling height for atriums and spaces utilizing the ceiling height adjustment per Table C405.4.2(2), Footnotes d thru f.
 - Note 3 - List all proposed lighting fixtures including exempt lighting equipment and existing-to-remain fixtures.
 - Note 4 - For proposed Fixture Description, indicate fixture type, lamp type (e.g. T-8, LED), number of lamps in the fixture, and ballast type (if included). For track lighting, list the length of the track (in feet) in addition to the fixture, lamp, and ballast information.
 - Note 5 - For lighting equipment eligible for exemption per C405.4.1, note exception number and leave Watts/Fixture blank.
 - Note 6 - Existing-to-remain fixtures shall be included in the Proposed Lighting Wattage table in the same manner as new fixtures. Identify as existing in fixture description.
 - Note 7 - For proposed Watts/Fixture enter the luminaire wattage for installed lamp and ballast using manufacturer or other approved source. For luminaires with screw-in lamps, enter the input wattage of the installed lamps. For low voltage lighting, enter the wattage of the transformer. For line voltage track/busway systems, enter the larger of the attached luminaire wattage or 16 watts/linear foot, or enter the wattage limit of permanent current limiting device.
 - Note 8 - Art/Display/Exhibit/Ornamental lighting qualifying for extra allowance is independent of the Maximum Allowed Lighting Wattage. Enter all art/display/exhibit/ornamental fixtures qualifying for extra allowance in LTG-INT-DISPLAY form only.
 - Note 9 - Calculation Area Details:
 - a. Lighting fixtures in a building addition may comply as a stand alone project, or they may be combined with the overall existing building lighting systems to demonstrate compliance. Refer to C502.1.
 - b. For alterations and building additions, provide Space Types and gross interior areas in the Maximum Allowed Lighting Wattage table. If a building addition will comply as combined with the overall existing building lighting systems, include all applicable existing Space Types and gross interior areas.
 - c. If less than 20% of existing lighting fixtures will be replaced, provide total existing lighting wattage (prior to alteration) in the space provided in the Maximum Allowed Lighting Wattage table.
 - d. If lighting alteration project includes building areas or spaces where < 20% of luminaires are replaced, and other areas or spaces where > 20% of luminaires are replaced, then these areas or spaces shall be documented separately. If multiple forms are completed to demonstrate compliance for the total scope of the alteration project, describe scope covered in form in User Note section.

Interior Extra Allowance Lighting - Space-by-Space **LTG-INT-DISPLAY**

2018 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1 Revised Mar 2021 rev. 1

Project Title: MOD Pizza - Kirkland **Date:** 9/30/2021

General Note: An additional wattage allowance is permitted for certain applications in certain space types. Only areas with eligible lighting may use this additional allowance. See Table C405.4.2(2) and associated footnotes for eligibility and requirements. Proposed lighting for each space may not exceed the allowance for the space.

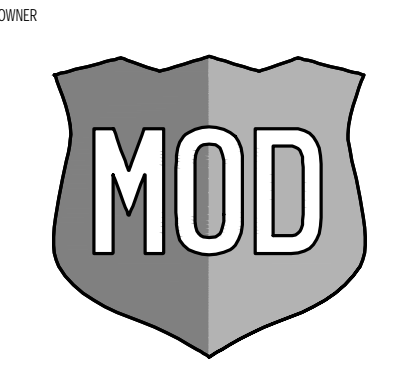
Additional Art/Display/Exhibit/Ornamental Lighting Wattage Allowance:

Room Name	Space type (must be entered on ltg-int-space)	Special Allowance Type	Room Description / Location (plan # & room #)	Gross Interior Area in ft ² , or LF for chalkboard	Additional Watts Allowed Per Area	Proposed Additional Watts Per Area
Dining	Family dining	Ornamental - fn, n	Dining Area	1920	576	160
Total Area with Qualified Lighting						1920
Total Art/Display/Exhibit/Ornamental Allowance						160

Proposed Art/Display/Exhibit/Ornamental Lighting Wattage:

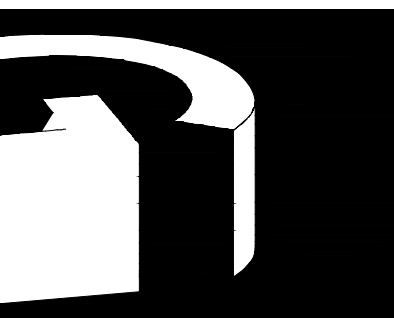
Room Name	Location (plan #, room #)	Fixture Description	Number of Fixtures	Watts per Fixture	Watts Proposed
Dining	Dining Room	X-L-428	8	20	160
Total Lobby Art/Exhibit Proposed Display Watts					160
Interior Lighting Power Allowance					
COMPLIES					

* See footnotes on previous page



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SEALED 10/14/2021



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KIRKLAND, WA 98033

ISSUED / REVISED DATE
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MOD CD TEMPLATE V2.1

PERMIT SET

E-002
ENERGY COMPLIANCE FORMS

Lighting, Motor, and Electrical Permit Checklist, Pg. 1 **LTG-CHK**

2018 Seattle Energy Code Compliance Form for Commercial Buildings including R2, R3, R4 over 3 stories and all R1		Revised Mar 2021 rev. 1			
Project Title:	MOD Pizza - Kirkland	Date:	9/30/2021		
The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions.					
Applicability (yes/no/na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	SDCI Notes
LIGHTING ALTERATIONS					
Yes	C405.2	Lighting controls, general	For all lighting systems, indicate lighting control method on plans for spaces and lighting zone(s) served, or exception taken.	E-111, E-402	
NA	C405.2	LLC required for open office	For open office areas larger than 5000 sf, provide LLC fixtures or enhanced digital lighting control system.		
NA	C405.2, Option 2	Luminaire level lighting controls (LLC)	Indicate on plans all fixtures provided with LLC complying with C405.2 option 2 lighting controls; provide description of control capabilities and performance parameters.		
NA	C405.2.5	Lighting in dwelling units (dormitory, hotel and all other than multifamily)	Indicate method of automatic control of all installed luminaires in dwelling units or buildings other than multifamily (occupancy or light reduction controls).		
NA	C405.2.5	Lighting in sleeping units	Indicate method of automatic control of all installed luminaires in sleeping units (vacancy or key card control); also refer to Receptacles.		
Yes	C405.2.3, C405.2.3.1, C405.2.5	Manual controls	Indicate on plans the method of manual lighting control, location of manual control device and the area or specific application it serves.	E-111, E-402	
Yes	C405.2.1.1, C405.2.3.1, C405.2.4	Manual interior light reduction controls	Indicate on plans which method of manual 50% lighting load reduction is provided, or indicate applicable exception.	E-111, E-402	
Yes	C405.2.1, C405.2.1.1, C405.2.1, Exception 3	Method of automatic shut-off control	Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor, time switch or digital timer switch) for all lighting zones.	E-111, E-402	
Yes	C405.2.1, C405.2.1.1	Occupancy sensor controls	Indicate on plans all luminaires that are controlled by occupancy sensor controls; indicate controls are configured to turn luminaires 100% off when the space is unoccupied. Indicate if occupancy sensor controls are configured to be manual on or automatic on to not more than 50% power; indicate spaces eligible for exception that allow automatic on to 100% power.	E-111, E-402	
NA	C405.2.1.2	Occupant sensor controls - warehouse spaces	Indicate each aisleway and corridor within a warehouse space are designated as separate zones that are independently controlled.		
NA	C405.2.1.2	Occupant sensor controls - warehouse spaces, storage areas and service corridors	Indicate occupant sensors are configured to automatically reduce lighting power by 50% within 20 minutes of all occupants leaving the zone. Indicate controls are configured to automatically restore full power when the zone is occupied; indicate occupant sensors turn lighting off within 20 minutes of all occupants leaving the space, or time switch controls provided.		
NA	C405.2.1.3	Occupant sensor controls - open plan office areas	For open plan office areas larger than 300 sf, indicate general lighting is provided with vacancy controls that reduce lighting power by not less than 80% and are configured to turn luminaires 100% off when the open plan office area is unoccupied. Indicate that no individual control zone area exceeds 600 sf.		
NA	C405.2.1.4	Occupant sensor controls - parking garages	Indicate parking garage general lighting is provided with vacancy controls to automatically reduce lighting power by not less than 30% within 20 minutes of no activity being detected; indicate that no control zone exceeds 3,800 sf; indicate occupancy sensors turn lighting off within 20 minutes of space vacancy, or time switch controls provided.		
NA	C405.2.1.5	Occupant sensor controls - enclosed freestanding stairwells	Indicate stairway lighting is provided with vacancy controls that reduce lighting power by not less than 50% when the stairway is unoccupied.	E-111, E-402	
		Automatic time	Indicate spaces on plans where time switch controls turn luminaires 100% off during unoccupied hours.	E-111, E-402	
			Indicate locations where automatic shut-off is provided by other methods (occupancy sensor or digital timer switch) or which time switch control exception applies.	E-111, E-402	

Yes	C405.2.2.1	Switch controls	Indicate spaces on plans where time switch controls are configured to turn on lighting to full power versus 50% power.	E-111, E-402	
NA	C405.2.1, Exception 3	Digital timer switch	Indicate locations of override switches on plans and the lighting zone(s) served; indicate that the area(s) served by each override switch does not exceed 5,000 sf.	E-111, E-402	
Yes	C405.2.4, C405.2.4.3	Daylight zones - Skylit and toplit	Indicate primary and secondary skylit daylight zone floor areas on plans. Indicate toplit daylight zone floor areas on plans. For small vertical fenestration assemblies (rough opening less than 10 percent of primary daylight zone floor area) where daylight responsive controls are not required, provide fenestration area to daylight zone floor area calculation(s).	NA	

Lighting, Motor, and Electrical Permit Checklist, Pg. 2 **LTG-CHK**

2018 Seattle Energy Code Compliance Form for Commercial Buildings including R2, R3, R4 over 3 stories and all R1		Revised Mar 2021 rev. 1			
Project Title:	MOD Pizza - Kirkland	Date:	9/30/2021		
The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions.					
Applicability (yes/no/na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	#REF!
Yes	C405.2.4	Daylight responsive controls	Identify skylit and toplit daylight zones that are not provided with daylight sensing controls and the exception(s) that apply. Indicate on plans the lighting load reduction method (continuous dimming, or stepped dimming that provides at least seven steps between 0%-100% or rated power).	E-111, E-402	
NA	C405.2.5	Additional controls - Specific application lighting controls	Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section.	E-111, E-402	
NA	C405.2.5, Item 1	Display and accent lighting	Indicate on plans that manual controls are provided that control display, accent lighting and display case lighting independently from both general area lighting and other lighting applications within the same space.		
NA	C405.2.5, Item 2	Hotel/motel guest rooms	Indicate method of automatic control - vacancy or captive key control of all installed luminaires and switched receptacles in guest room.		
NA	C405.2.5, Item 1	Supplemental task lighting	Indicate method and location of manual and automatic shut-off control (occupancy sensor or time switch) for supplemental task lighting, including under-shelf or under-cabinet lighting.		
NA	C405.2.5, Item 1	Supplemental task lighting	Indicate on plans that lighting equipment for sale or demonstration are controlled independently from both general area lighting and other lighting applications within the same space. Indicate manual and automatic (occupancy sensor or time switch) lighting control methods.		
NA	C405.2.5, Item 4	Lighting for non-visual applications	Identify all eligible non-visual lighting applications on plans; indicate that the area served by each control device does not exceed 4,000 sf.		
NA	C405.2.5, Item 5	Means of egress lighting	Indicate on plans that non-visual lighting are controlled independently from both general area lighting and other lighting applications within the same space. Indicate method of manual lighting control and applicable automatic lighting control. Identify on plans egress fixtures that function as both normal and emergency means of egress illumination. Provide calculation of lighting power density of total egress lighting operating 24/7 and demonstrate that it is equal to or less than 0.01 W/sf. Indicate method of automatic shut-off control.	E-111, E-402	
Yes	C405.2.6	Exterior lighting controls	For decorative exterior lighting, indicate on plans automatic daylight shut-off controls, or exception taken. For exterior lighting that is not decorative, indicate on plans automatic daylight or time-switch shut-off controls and setback controls, or indicate exception taken. For lighting requiring setback controls, include control sequence that reduces lighting power by at least 30% between 12am-6am, or from 1 hour after closing to 1 hour before opening, or based upon motion sensor.	NA	
NA	C405.2.6	Exterior lighting controls - Building facade and landscape	For building facade and landscape lighting, indicate control sequence for shut-off control is based on dawn-to-dusk and business opening/closing schedule; indicate whether automatic or time switch controls will be provided for this function.	NA	
NA	C405.5.4	Exterior gas-fired lighting appliances	Indicate ignition system is a method other than continuously burning pilot light.		

Yes	C405.2.7	Area controls - Master control switches and circuit power limit	Indicate location(s) of master control switch(es) intended to control multiple independent switches; circuit breaker may not be used as a master control switch. Verify that no single switch controls more than one 20-amp circuit, loaded to maximum 80% capacity.	E-111, E-402	
ADDITIONAL EFFICIENCY PACKAGE OPTION - ENHANCED DIGITAL LIGHTING CONTROLS					
NA	C406.4	Enhanced digital lighting controls	To comply with additional efficiency credit, indicate on plans that interior lighting fixtures are configured with all of the following control functions, as applicable: 1) Each fixture is individually addressed, or exception taken; 2) Fixtures are configured for continuous dimming; 3) No more than eight fixtures are controlled by a single daylight sensor; 4) In enclosed and open office areas, illumination levels of overhead general area lighting is configured to be individually adjusted by occupants; include calculations that demonstrate the total lighting power of all interior lighting fixtures configured with enhanced lighting controls is no less than 90% of the total interior lighting power for the area the enhanced lighting controls credit is being applied to.		

Lighting, Motor, and Electrical Permit Checklist, Pg. 3 **LTG-CHK**

2018 Seattle Energy Code Compliance Form for Commercial Buildings including R2, R3, R4 over 3 stories and all R1		Revised Mar 2021 rev. 1			
Project Title:	MOD Pizza - Kirkland	Date:	9/30/2021		
The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions.					
Applicability (yes/no/na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	SDCI Notes
INTERIOR LIGHTING POWER & EFFICACY					
Yes	C405.4.1, C405.4.2	Total connected interior lighting power	For all luminaires in interior lighting fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's watts per fixture for the installed lamp. Identify spaces eligible for lighting power exemption on plans and in SEC interior lighting compliance reports; indicate the exception applied. Identify lighting equipment eligible for lighting power exemption in future schedule and in SEC interior lighting compliance reports; indicate the exception applied.	E-111, E-402	
NA	C405.4.1	Total connected interior lighting power alternative	Indicate on plans any areas where proposed wattage is calculated as the total dedicated lighting branch wattage, detail rated wattage and proposed lighting power for each branch.		
NA	C405.1, C405.1.1	Lighting in dwelling units (dormitory, hotel and all other than multifamily)	For all installed luminaires, include lamp type and number of lamps in lighting fixture schedule; for lamps that are not LED, T-8 or small diameter fluorescent, indicate efficacy of other lamp types is 65 lumens per watt or greater.		
NA	C405.1, C405.1.1	Lighting in dwelling units (dormitory, hotel and all other than multifamily)	For all installed luminaires, indicate in lighting fixture schedule whether copying via lighting power density or by qualifying lamp type; if by lamp type, include number of lamps.		
NA	C405.1, C405.1.1	Lighting in sleeping units	For all installed luminaires, indicate in lighting fixture schedule whether copying via lighting power density or by qualifying lamp type; if by lamp type, include number of lamps.		
Interior Lighting Power Calculation - Indicate compliance path taken					
NA	C405.4.2.1	Building Area Method	Demonstrate that total proposed wattage per building area does not exceed maximum allowed wattage per building area; identify locations of building areas on plans; provide SEC interior lighting compliance reports.		
Yes	C405.4.2.2	Space-By-Space Method	Demonstrate that total proposed wattage does not exceed maximum allowed wattage; identify locations of space types on plans, including retail display areas and areas with display, highlight and decorative lighting; provide SEC interior lighting compliance reports.		
ADDITIONAL EFFICIENCY PACKAGE OPTION - REDUCED INTERIOR LIGHTING POWER DENSITY					
NA	C406.3.1, C406.3.2	Reduced interior lighting power density	To comply with additional efficiency credit, demonstrate that total connected interior lighting wattage is 10% or 20% less than the total maximum allowed lighting wattage for the area the reduced lighting power credit is being applied to; indicate whether lighting power allowance is based on the building area method or space-by-space method; provide SEC interior lighting compliance reports.		
NA	C406.3	Reduced interior lighting power density - dwelling unit lamp efficacy	For project with dwelling units, to comply with additional efficiency credit indicate in lighting fixture schedule that lamps within installed interior luminaires have an efficacy rating of at least 60 lumens per watt; include number of lamps and provide calculations that demonstrate at least 95% of lamps have this efficacy rating.		
EXTERIOR LIGHTING POWER & EFFICACY					
NA	C405.5.2	Total connected exterior lighting power	Indicate all luminaires in exterior lighting fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's watts per fixture for the installed lamp. Identify exterior applications eligible for lighting power exemption on plans and in SEC exterior lighting compliance reports; indicate exception taken. Indicate that exempt exterior lighting and lighting located within exterior areas/surfaces that eligible for a lighting power exemption are controlled independently from non-exempt exterior lighting.		
NA	C405.5.3(1)	Exterior lighting zone	Indicate building exterior lighting zone as specified by the AHJ.		

NA	C405.5.1	Exterior building grounds lighting	For building grounds fixtures rated at greater than 50 watts, indicate rated lamp efficacy (in lumens per watt) in fixture schedule.		
NA	C405.5.3	Exterior lighting power calculations	Identify locations of tradeable and non-tradeable surfaces on plans. Complete required compliance form - proposed wattage for exterior lighting plus base site allowed does not exceed maximum allowed.		
NA	C405.5.5	Full cutoff luminaires	For open parking, outdoor area, and roadway luminaires mounted more than 15 feet above the ground, indicate fixture with zero candela at an angle of 90 degrees.		

Lighting, Motor, and Electrical Permit Checklist, Pg. 4 **LTG-CHK**

2018 Seattle Energy Code Compliance Form for Commercial Buildings including R2, R3, R4 over 3 stories and all R1		Revised Mar 2021 rev. 1			
Project Title:	MOD Pizza - Kirkland	Date:	9/30/2021		
The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions.					
Applicability (yes/no/na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	SDCI Notes
LIGHTING ALTERATIONS					
NA	C503.6.1	Interior and parking garage lighting future alterations	Where > 20% of existing luminaires in an interior space or parking garage are replaced; indicate compliance path (building area or space-by-space method); include all new and existing-to-remain luminaires in SEC interior lighting compliance reports; indicate proposed lighting wattage does not exceed maximum allowed per compliance path.		
NA	C503.6.1	Exterior lighting future alterations	Where > 20% of existing luminaires in an exterior space or parking garage are replaced; indicate total existing lighting wattage in each space prior to alteration; include all new and existing-to-remain luminaires in SEC interior lighting compliance reports; indicate proposed total lighting wattage in alteration area does not exceed total existing lighting wattage prior to alteration.		
NA	C503.6.1	Exterior lighting future alterations	Where < 20% of existing exterior lighting wattage is replaced; include all new and existing-to-remain luminaires in SEC exterior lighting compliance reports; indicate proposed total exterior lighting wattage does not exceed maximum allowed.		
NA	C503.6.2	Interior lighting wiring alterations	Where < 20% of existing exterior lighting wattage is replaced; include all new and existing-to-remain luminaires in SEC interior lighting compliance reports; indicate proposed total exterior lighting wattage does not exceed total existing wattage prior to alteration.		
NA	C503.6.2	Exterior lighting wiring alterations	Where new wiring is installed to serve new interior luminaires and for luminaires are relocated to a new circuit; include manual and automatic lighting controls are provided (as applicable) - manual (C405.2.3), occupancy sensor (C405.2.1), light reduction (C405.2.3), daylight responsive (C405.2.4); specific application (C405.2.5).		
NA	C503.6.2	Exterior lighting wiring alterations	Where new wiring is installed to serve new exterior luminaires and for luminaires are relocated to a new circuit; indicate automatic lighting controls are provided (C405.2.3).		
NA	C503.6.3	Lighting panel alterations	Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (all new roadway and conductor wiring); indicate all applicable lighting controls requirements apply.		
NA	C503.6.4	Newly-created room	Where interior spaces is reconfigured (permanently installed walls or ceiling-height partitions) to create new enclosed spaces, indicate all applicable lighting controls requirements apply.		
NA	C505.1	Change of interior space use	Identify spaces on plans where the building area type or space use type is being changed from one type to another per Tables C405.2.1(1) or (2). Indicate compliance method (building area or space-by-space); include all new and existing-to-remain luminaires in SEC interior lighting compliance reports; indicate proposed lighting wattage does not exceed maximum allowed per compliance path. Indicate lighting controls provided per C405.2.		
RECEPTACLES					
NA	C405.10	Controlled receptacles	Identify all controlled and uncontrolled receptacles on electrical plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled, duplex devices, etc. Provide schedule that lists the number of controlled and uncontrolled receptacles in each space where controlled receptacles are required - classrooms, project offices, open office areas, conference rooms, copy rooms, break rooms and modular partitions/workstations.		

NA	C405.2.5, Item 2	Switched receptacles in sleeping units	Indicate on plans the method of automatic control for each controlled receptacle zone (occupancy sensor or programmable time-of-day control); indicate that each zone served by a single controller does not exceed 5,000 sf.		
NA	C503.6.6	Electrical receptacle alterations	Indicate method of automatic control of all switched receptacles in sleeping units (vacancy or key card control). Where new receptacles are added or replaced within an alteration project that is 5,000 sf or larger, include new or altered receptacles as provided with automatic controls per C405.10, or exception taken.		

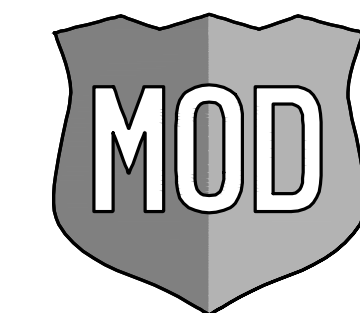
Lighting, Motor, and Electrical Permit Checklist, Pg. 5 **LTG-CHK**

2018 Seattle Energy Code Compliance Form for Commercial Buildings including R2, R3, R4 over 3 stories and all R1		Revised Mar 2021 rev. 1			
Project Title:	MOD Pizza - Kirkland	Date:	9/30/2021		
The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions.					
Applicability (yes/no/na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	SDCI Notes
MOTORS, TRANSFORMERS, ELECTRIC METERS, INTERIOR TRANSPORTATION					
NA	C405.6	Electrical transformers	Include electrical transformer schedule on electrical plans; indicate transformer type, size, efficiency, or exception taken.		
Yes	C405.11	Feeders and branch circuits	Provide documentation that demonstrates maximum voltage drop across feeders and branch circuits does not exceed 5%.		
NA	C405.7	Dwelling unit electrical energy consumption	Indicate on electrical plans that each dwelling unit in Group R-2 has a separate electrical energy meter.		
NA	C405.7.1	Receptacles at gas appliances	Provide 240/208 volt receptacles at each gas appliance.		
NA	C405.8	Electric motor efficiency	Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate motor type, horsepower, rpm, rated efficiency, or exception applied.		
NA	C405.9.1	Elevator cabs	For luminaires in each elevator cab, provide calculations that demonstrate average efficacy is not less than 35 lumens/watt. Indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfm. Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoccupied for a period of 15 minutes or more.		
NA	C405.9.2	Escalators and moving walks	Indicate escalators comply with ASME A17.1/CSA B44; automatic controls are configured to reduce operational speed to the minimum permitted when not in use or uses a variable voltage drive system.		
NA	C405.9.3	Regenerative drive	Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive.		
DOCUMENTATION AND SYSTEM REQUIREMENTS TO SUPPORT COMMISSIONING (Cx)					
NA	C408.4	Scope of electrical power and lighting systems commissioning	Indicate that controlled receptacles are required to be commissioned. Where total building lighting load is > 20 kW, or where total lighting load of luminaires requiring daylight sensing and / or occupancy controls > 10 kW, indicate that all automatic lighting control systems are required to be commissioned; or provide building lighting power calculation demonstrating eligibility for exception.		
NA	C408.13, C408.1.1, C408.1.2, C408.1.4, C103.6	Commissioning requirements in construction documents	Indicate Cx requirements in plans and specifications for all applicable electrical and lighting control systems per C408. Include general summary of Cx plan per C408.1.2 including: 1) Narrative description of activities; 2) Responsibilities of the Cx team; 3) Schedule of activities including verification of project close out documentation per C103.6.4; Conflict of interest plan (if required).		
NA	C408.4.1	Functional performance testing criteria	Indicate in general summary that a Cx project report and Compliance Checklist (Figure C408.1.4.1) shall be completed by the Certified Cx Professional and provided to the owner prior to the final electrical inspection. Identify in plans and specifications the intended operation of all equipment and controls during all modes of operation, including interfacing between new and existing-to-remain systems.		
PROJECT CLOSE OUT DOCUMENTATION					
NA	C103.6.3	Project close out documentation requirements	Indicate in plans that project close out documentation is required including SEC lighting compliance forms and calculations that document all interior and exterior lighting area and / or surface types, lighting power allowances and installed densities.		

If "no" is selected for any question, provide explanation:

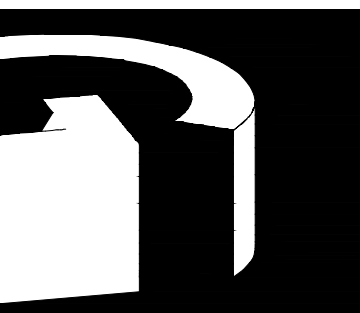
End of Lighting, Motor & Transformer Permit Documents Checklist

OWNER



2035 158th CT NE
Suite 200
Bellevue, WA 98008

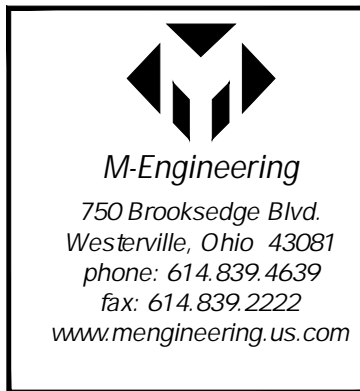
ARCHITECT OF RECORD



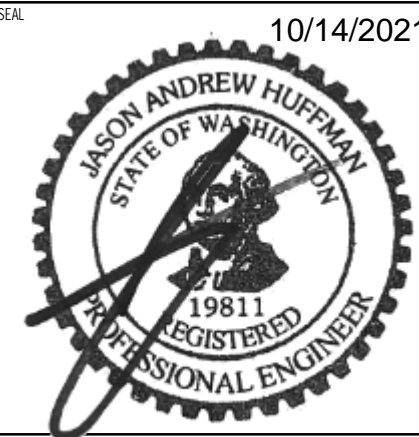
GRAPHITE

Graphite Design Group, LLC
1809 Seventh Ave, #700
Seattle, WA 98101
206.224.3335

CONSULTANT



10/14/2021



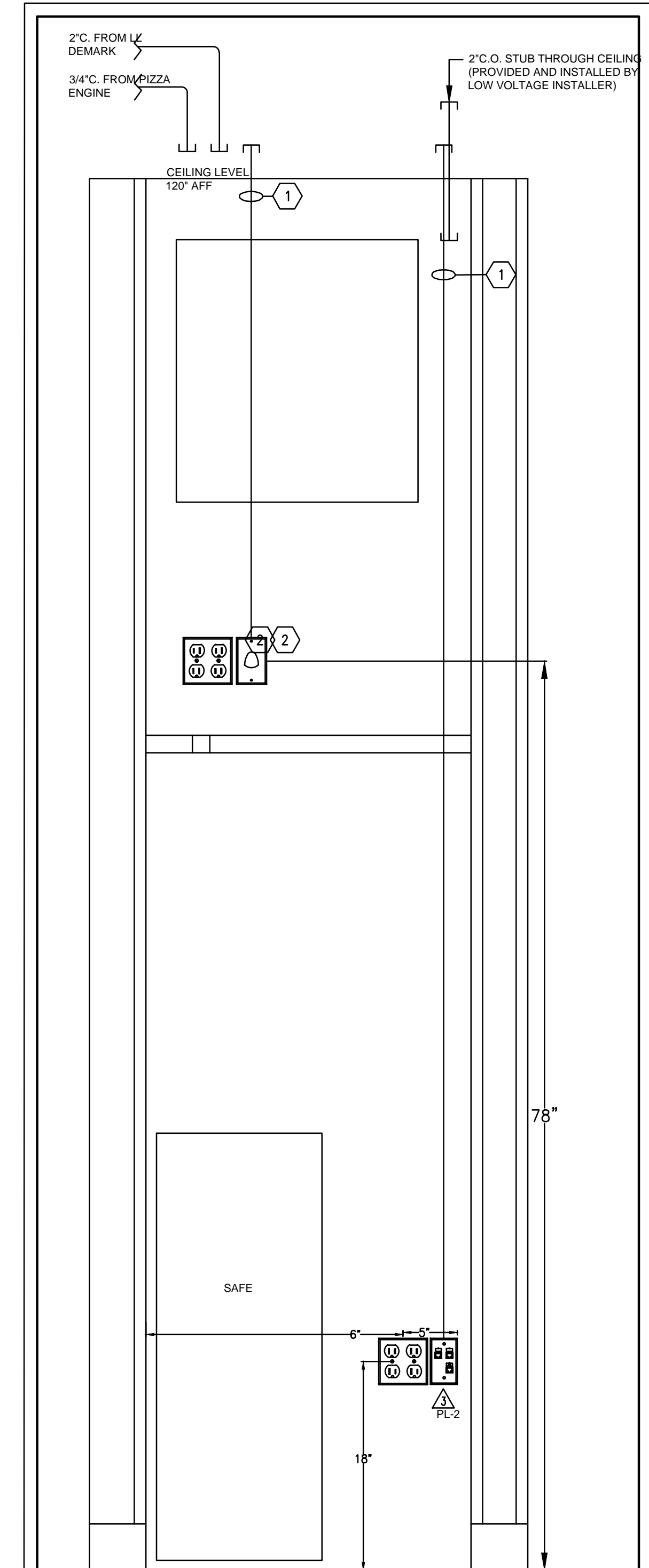
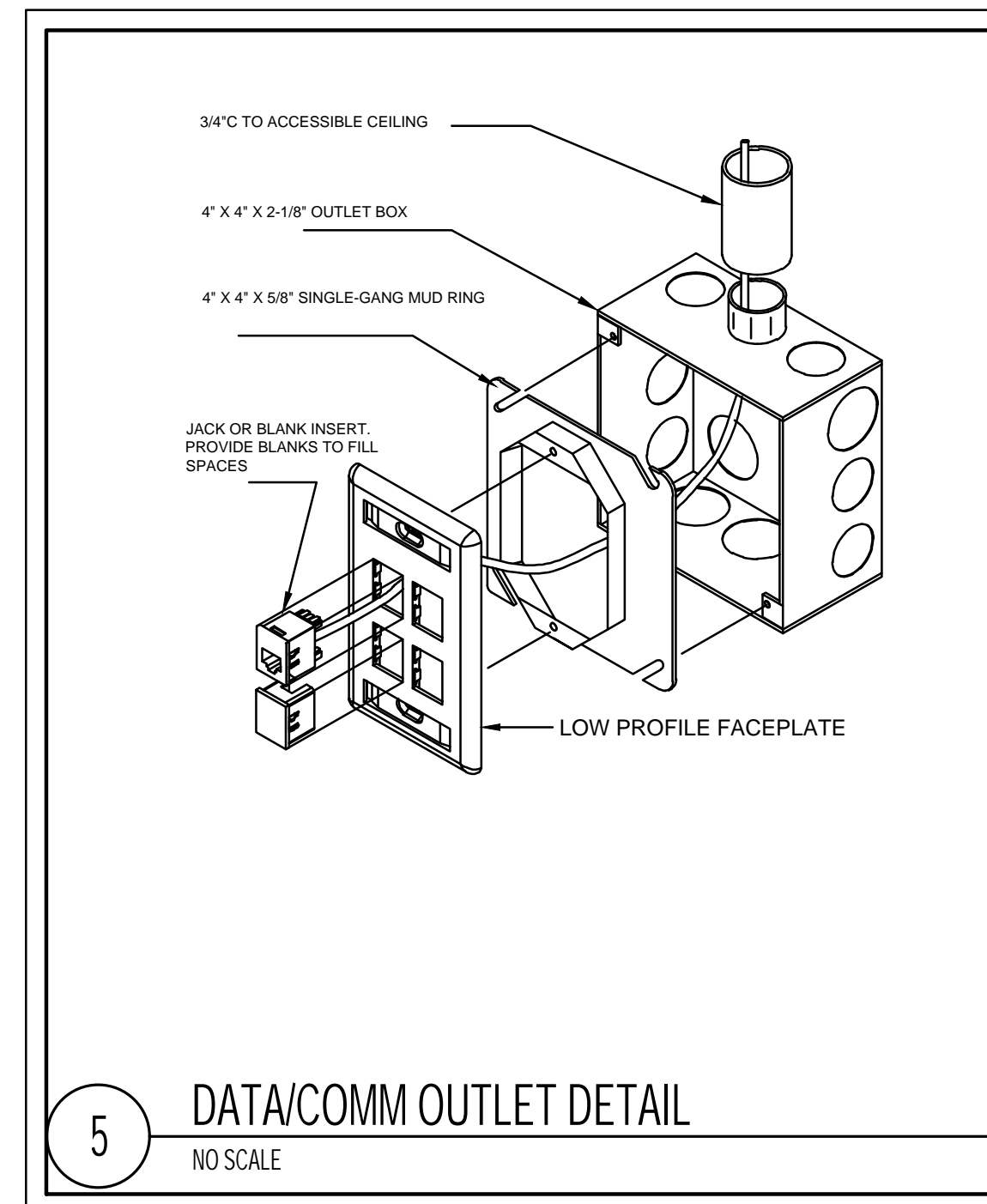
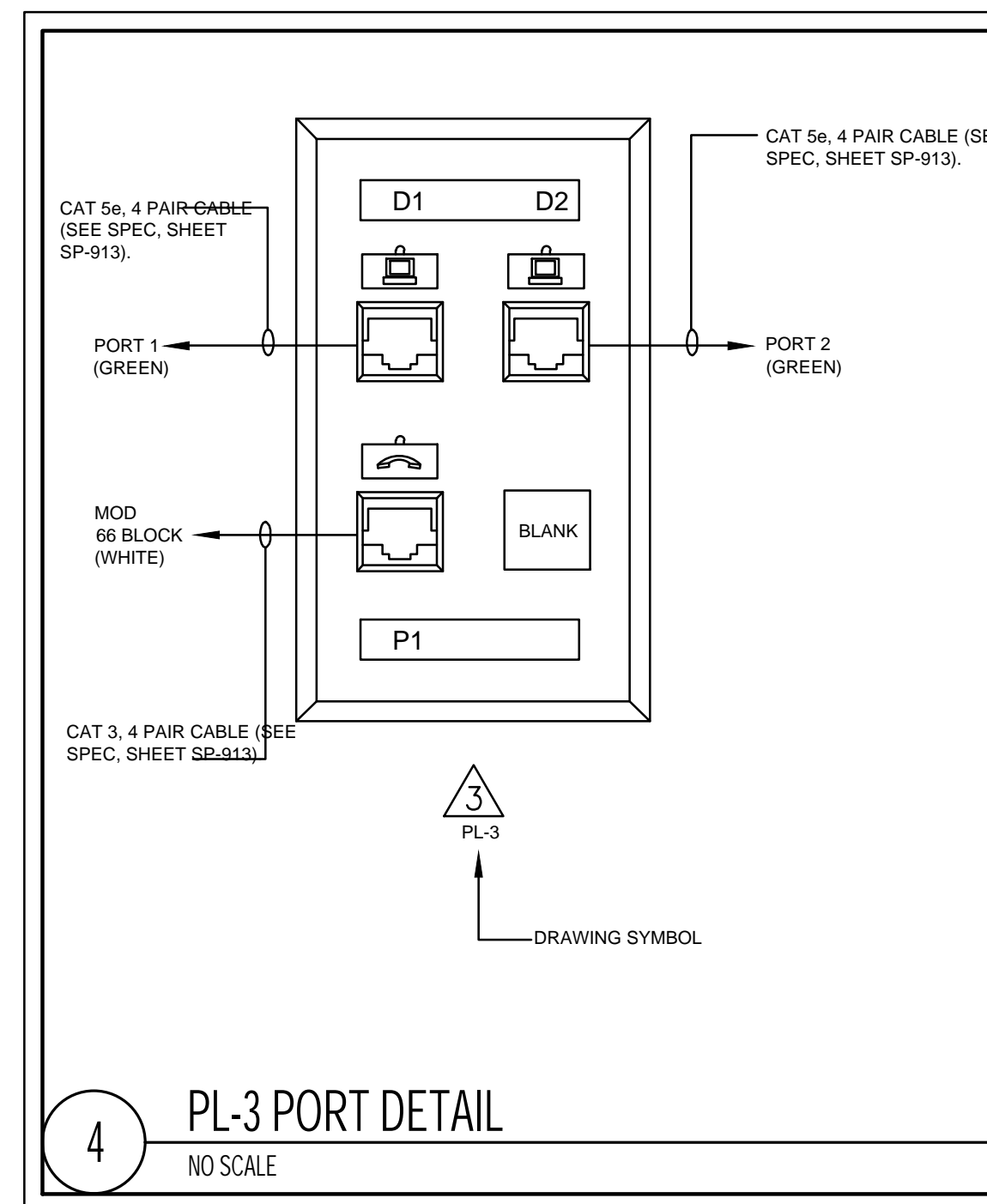
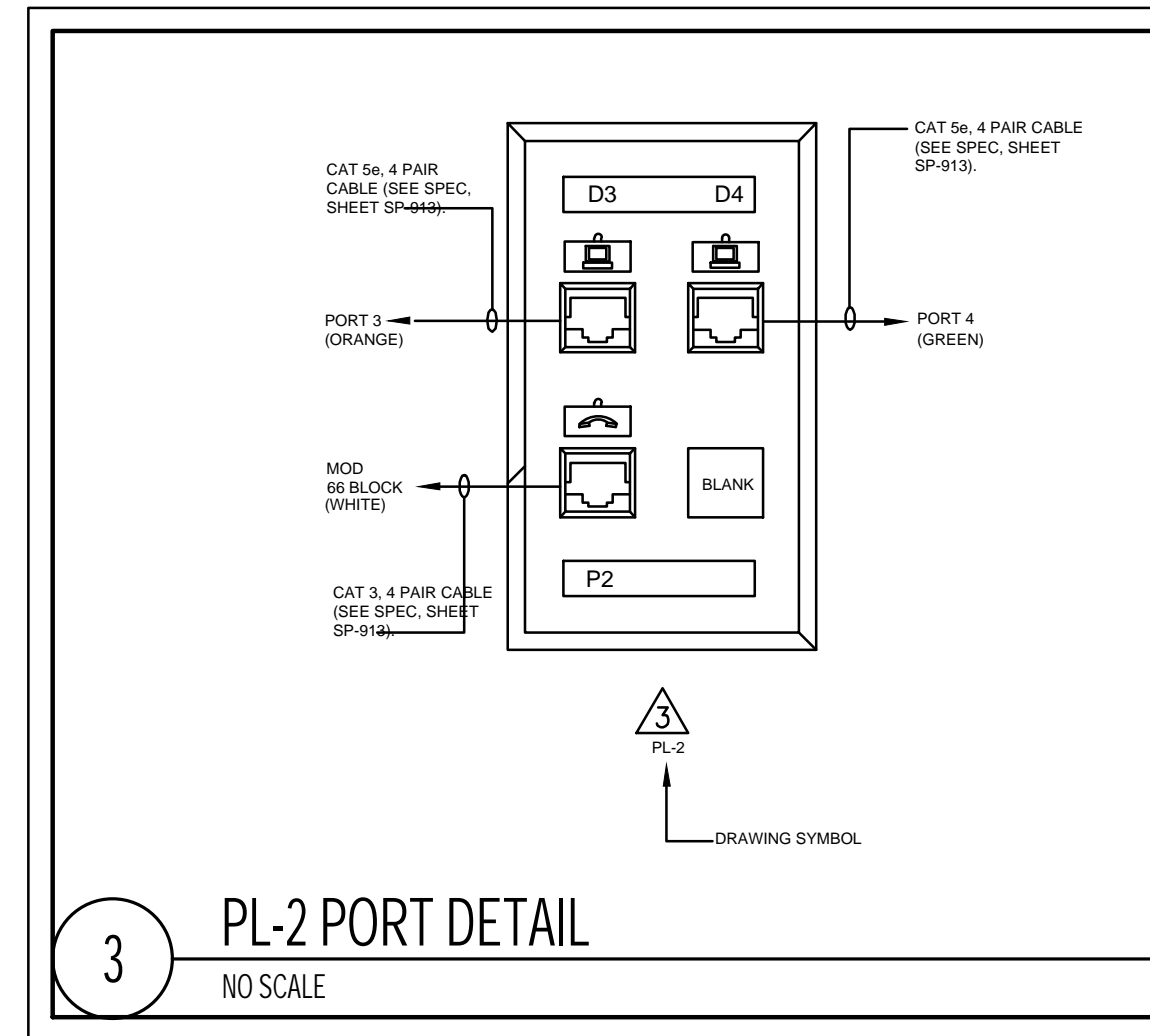
DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1
PERMIT SET

E-003
ENERGY COMPLIANCE FORMS

ELECTRICAL WORK NOT REVIEWED UNDER BUILDING PERMIT



DETAIL NOTES

- REFER TO ARCHITECTURAL ELEVATION, DETAIL 3, SHEET A-802, FOR SHELF HEIGHTS AND DESCRIPTION OF ADDITIONAL ITEMS NOT NOTED HERE.
- CONTACT COLIN MACKENZIE (425.278.6007) WITH MOD PIZZA FOR ADDITIONAL INFORMATION ABOUT EQUIPMENT SHOWN

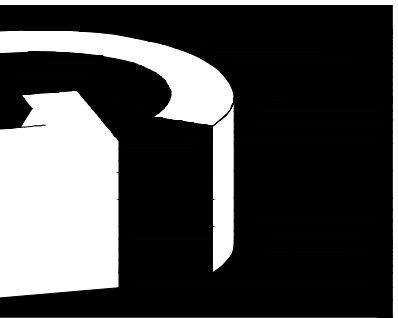
CODED NOTES

- 1 PROVIDE 3/4\"/>
- 2 PROVIDE DUAL GANG OUTLET BOX WITH MUD RING FOR SPEAKER WIRING.



2035 158th CT NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD



GRAPHITE

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1809 Seventh Ave, #700
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CONSULTANT



SEAL

10/14/2021



DOWNTOWN
KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1
PERMIT SET

E-501
LOW VOLTAGE DETAILS

ELECTRICAL WORK NOT REVIEWED UNDER BUILDING PERMIT

GENERAL NOTES

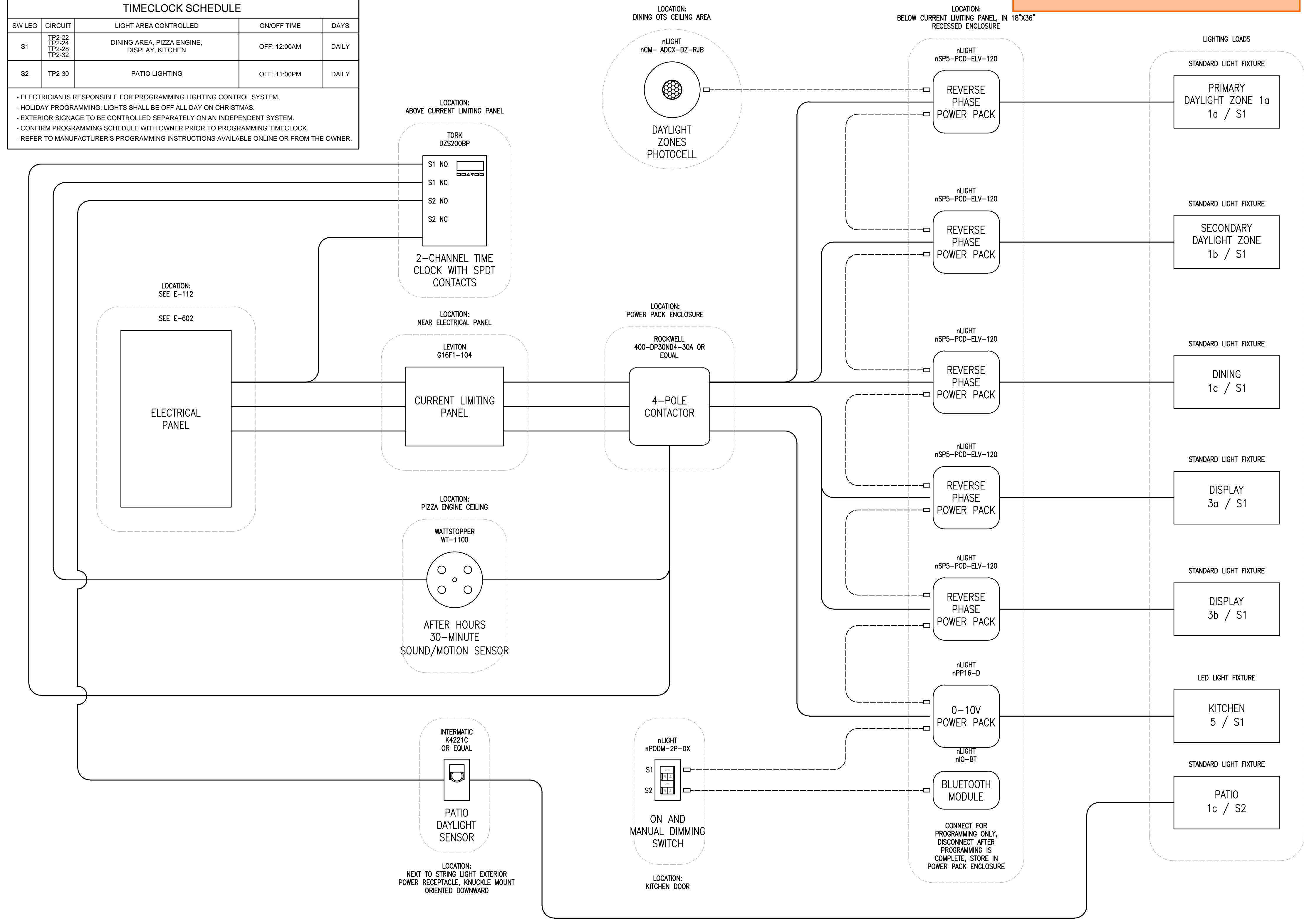
- REFER TO TIMELOCK SCHEDULE FOR CIRCUIT NUMBERS THAT ARE TO BE CONTROLLED BY EACH LIGHTING ZONE.
- REFER TO PANEL SCHEDULES FOR CIRCUITS THAT ARE TO BE CONTROLLED BY EACH CONTACTOR.
- THE ELECTRICAL CONTRACTOR SHALL PROGRAM ALL TIMELOCKS AND TIMER SWITCHES. PROGRAM ALL ON, OFF, AND HOLIDAY SETTINGS PER THE TIMELOCK SCHEDULE. ALL CONTROL ZONES SHALL HAVE THE ASTRONOMIC FUNCTION FOR THE CHANNEL TURNED ON.
- THE ELECTRICAL CONTRACTOR SHALL PROGRAM ALL ASSOCIATED nLIGHT LIGHTING CONTROLS WITH BLUETOOTH BASED MOBILE APPLICATION. COORDINATE ALL CONTROL SETTINGS WITH OWNER. THE FULLY INSTALLED SYSTEM SHALL BE DEMONSTRATED TO THE OWNER TO ENSURE INTENDED FUNCTIONALITY. REFER TO MANUFACTURER STEP-BY-STEP PROGRAMMING GUIDE AVAILABLE ONLINE OR OBTAINED FROM THE OWNER FOR COMPLETE CONFIGURATION INSTRUCTIONS USING nCONFIG MOBILE APPLICATION.
- ROUTE TIMELOCK AND/OR PHOTOCELL CONTROLLED LIGHTING LOAD AHEAD OF EACH DIMMING PACK.
- DIMMER SWITCH MUST BE LOCATED SUCH THAT ALL LIGHTING ZONES BEING CONTROLLED VISIBLE FROM THE DIMMER SWITCH LOCATION.
- SOUND/MOTION SENSOR TO BE SET FOR 30 MINUTE DELAY.
- COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF LIGHTING CONTROL DEVICES WITH ARCHITECTURAL DRAWINGS.
- ALL CONTACTORS SHALL BE PROVIDED WITH NORMALLY CLOSED CONTACTS. THE CONTACTORS SHALL BE DELIVERED FROM THE FACTORY WITH NORMALLY CLOSED CONTACTS OR WITH FIELD-CONVERTIBLE CONTACTS. FIELD-CONVERT CONTACTORS WHEN FIELD-CONVERTIBLE NORMALLY OPEN CONTACTS ARE PROVIDED.
- ANY LOCAL SWITCHING INDICATED IN THIS DIAGRAM SHALL BE ON THE LOAD SIDE OF THE CONTACTOR.
- MOUNT CONTACTORS ABOVE MANAGER'S DESK ADJACENT TO TELECOMMUNICATIONS BOARD. ALL CONTACTORS SHALL BE PROVIDED WITH INDIVIDUAL ENCLOSURES. AT THE CONTRACTOR'S OPTION, OPEN RELAYS AND CONTACTORS ARE PERMITTED WHEN MOUNTED WITHIN A COMMON ENCLOSURE.
- AVOID LOCATING PATIO STRING LIGHT DAYLIGHT SENSOR IN DIRECT SUNLIGHT. KNUCKLE MOUNT FACING DOWNWARD ON J-BOX DIRECTLY ADJACENT TO PATIO STRING LIGHT EXTERIOR POWER RECEPTACLE.
- RESTROOM LIGHTING TO BE CONTROLLED BY LOCAL OCCUPANCY SENSOR. REFER TO E-111 FOR MORE INFORMATION.
- EXTERIOR SIGNAGE TO BE CONTROLLED SEPARATELY ON AN INDEPENDENT SYSTEM.
- WHEN EXTERIOR SIGNAGE IS REQUIRED TO BE TIME CONTROLLED, INTERRUPT EXTERIOR SIGNAGE CIRCUITS DIRECTLY ADJACENT TO ELECTRICAL PANEL. ROUTE THROUGH CONTACTOR AND PROVIDE INTERMATIC E160WC TIMER SWITCH. COORDINATE PROGRAMMING REQUIREMENTS WITH OWNER. THE FULLY INSTALLED EXTERIOR SIGNAGE TIME CONTROL SYSTEM SHALL BE DEMONSTRATED TO THE OWNER TO ENSURE INTENDED FUNCTIONALITY.

SYMBOL LEGEND

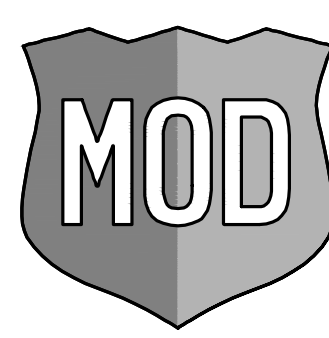
- LINE VOLTAGE
- - - - - CAT 5e

TIMELOCK SCHEDULE				
SW LEG	CIRCUIT	LIGHT AREA CONTROLLED	ON/OFF TIME	DAYS
S1	TP2-22 TP2-24 TP2-28 TP2-32	DINING AREA, PIZZA ENGINE, DISPLAY, KITCHEN	OFF: 12:00AM	DAILY
S2	TP2-30	PATIO LIGHTING	OFF: 11:00PM	DAILY

- ELECTRICIAN IS RESPONSIBLE FOR PROGRAMMING LIGHTING CONTROL SYSTEM.
 - HOLIDAY PROGRAMMING: LIGHTS SHALL BE OFF ALL DAY ON CHRISTMAS.
 - EXTERIOR SIGNAGE TO BE CONTROLLED SEPARATELY ON AN INDEPENDENT SYSTEM.
 - CONFIRM PROGRAMMING SCHEDULE WITH OWNER PRIOR TO PROGRAMMING TIMELOCK.
 - REFER TO MANUFACTURER'S PROGRAMMING INSTRUCTIONS AVAILABLE ONLINE OR FROM THE OWNER.

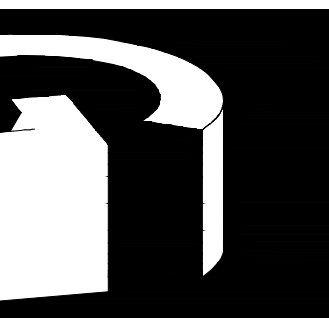


1 LIGHTING CONTROL DIAGRAM
NO SCALE



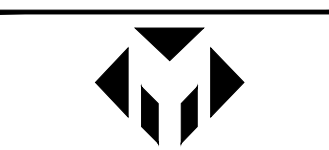
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DATE 10/14/2021



DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED PERMIT/BID SET DATE 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

E-502
LIGHTING CONTROL DETAILS

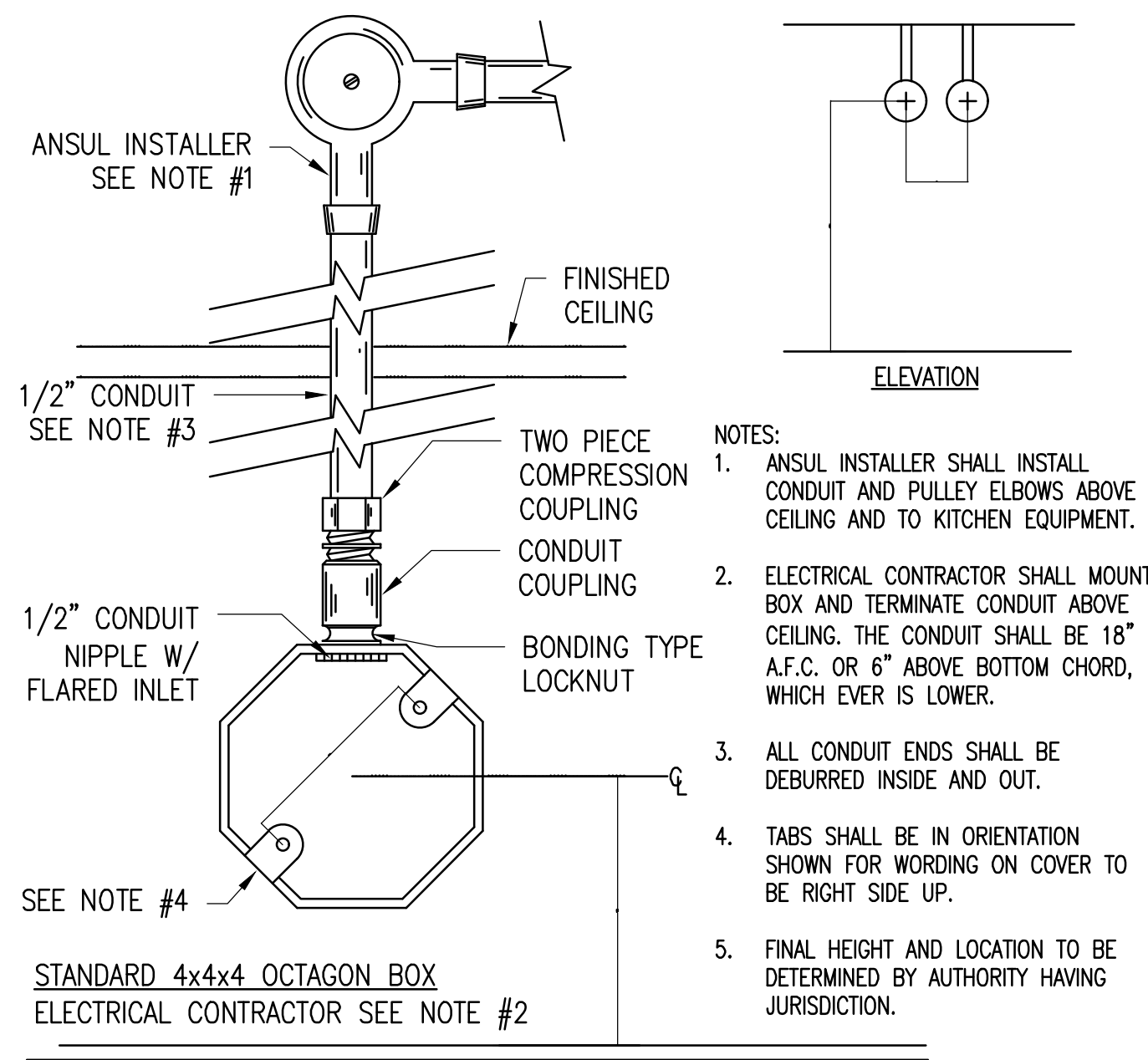
LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	LAMP	WATTS/FIXT
INTERIOR FIXTURES			
L-101	MANUFACTURER: JUNO MODEL #: R23-LE0724 6" RECESSED DOWNLIGHT	Integrated LED Trim: BR/D Cr/08/BL 30K 90CRI 120V/FRPC WWH	13.5
L-102	MANUFACTURER: JUNO MODEL #: R00WHRES31 WH SURFACE MONOPOINT ADAPTER AND HEAD	Sylvania 78983 LED8PAR20/DIM827/FL40/GL1/ W	8
L-110	MANUFACTURER: JUNO MODEL #: T SERIRES TRAC-MASTER 1-CIRCUIT TRACK- BLACK	-	-
L-111	MANUFACTURER: JUNO MODEL #: R531 BL TRACK HEAD, BLACK	SYLVANIA 78983 LED8PAR20/DIM827/FL40/GL1/W	8
L-112	MANUFACTURER: JUNO MODEL #: T59L 27K 80CRI BL TRACK WALL WASH HEAD BLACK	Sylvania 78983 LED8PAR20/DIM827/FL40/GL1/ W	57
L-150	MANUFACTURER: VOLT MODEL #: DV3K-24V LINEAR LED TAPE-WALL WASH	-	5.5FT
L-202	MANUFACTURER: BASELITE MODEL #: TR1PR1 41/20/BL 12" ACRYLIC DOME PENDANT	Sylvania 78117 LED17A21/DIM0/927/U/B	17
X-L-428	MANUFACTURER: BARNLIGHT ELECTRIC MODEL #: CHEROKEE UPLIGHT PENDANT WATTAGE REDUCED BY CURRENT LIMITING PANEL TO 9W/FIXTURE	Sylvania 78697 SA19SDIM0827UB	9
L-250	MANUFACTURER: INDY MODEL #: S2X4BL383SUWH ZXA RECESSED TROFFER	Integrated LED	36
L-260	MANUFACTURER: NORLAK MODEL #: PN-157750 WALK-IN COOLER / FREEZER DOOR	LED	19
L-261	MANUFACTURER: NORLAK MODEL #: PN 157752 48" L WALK-IN COOLER, OPTIONAL FOR CEILING MOUNT	LED	19
L-300	MANUFACTURER: TALA MODEL #: MOD-G32-1W-2700K-E12-NT-120V ARROW SIGN (LAMP ONLY)	LED	1
L-430	MANUFACTURER: BARNLIGHT MODEL #: BLE-C-DBW20-PC-100 16" SUNFLOWER FINISH PENDANT WATTAGE REDUCED BY CURRENT LIMITING PANEL TO 15W/FIXTURE	Sylvania 79167 LED11BR30/DIM/HO/827/G	200W REDUCED TO LED15W BY CLP
L-490	MANUFACTURER: LITHONIA LIGHTING MODEL #: Contemporary Cylinder Vanity FINVCLL 24W 1M VOLT 30K 90CRI BN RESTROOM WALL SCIENCE	Integrated LED 3000K	18
NOTES: CONTRACTOR TO VERIFY ALL QUANTITIES WITH SHEET E-111 AND A-121 PRIOR TO ORDERING AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT AND DESIGN TEAM. CONTRACTOR TO VERIFY ALL CORD LENGTHS PRIOR TO ORDER. LONGER CORD LENGTH REQUIRED DUE TO HIGH CEILING HEIGHT			

**ELECTRICAL WORK NOT REVIEWED
UNDER BUILDING PERMIT**

KITCHEN EQUIPMENT CONNECTION SCHEDULE									
QUANTITY	TAG	EQUIPMENT	MANUFACTURER	MODEL	VOLTS/PHASE	AMPS	HP	MTG. HEIGHT	NOTES
ENGINE									
1	E-103	PIZZA OVEN TYPE I EXHAUST HOOD	CAPTIVE AIRE SYSTEMS	WS-FD-9660	120/1	2			1
1	E-107	FIRE DECK 9660	WOOD STONE / FD-9660-RFGLR-IR (FACADE READY)	FD-9660-RFGLR-IR (FACADE READY)	120/1	2			5
1	E-120	DOUGH PRESS	CLIPPONE	PZF30-DF	208/3	15		+12"	
1	X-E-135	REFRIGERATED COUNTER - 27" WITH HOOD	TRUE MANUFACTURING	TSSU-72-12M-C-ADA-HC					
2	E-138	REFRIGERATOR COUNTER - 72" FLAT	REFRIGERATOR COUNTER - 72" FLAT	TSSU-72-30M-ST-HC (MODE)	120/1				
1	E-139	REFRIGERATOR COUNTER - 72" HOOD	TRUE MANUFACTURING	TSSU-72-30M-ST-HC (MODC)	120/1	10			
1	E-148	REACH-IN COOLER	TURBO AIR	TOM-405B	115/1	6.9		1/2	
1	E-231	EMV READER	LANE/7000 EMV READER	INGENICOLANE/7000 TAILWIND / CST00166 (BACKPLATE) HILIPRO / SWIVEL STAND FOR PAX S3000	120/1	5			
1	E-155	POS SCREEN	PAR	EVERSERV	120/1	3			2
1	E-156	POS PRINTER	EPSON	TM-188V	120/1	3			2
2	E-157	POS INTERNET PRINTER	EPSON	TM-L90 PLUS	120/1	3			2
2	E-158	POS CASH BOX	PAR	M8571-03	120/1	3			2
1	X-E-165	LOYALTY SCANNER	Honeywell / Genesis 7580g	RTGPOS	SEE PLAN	SEE PLAN			
1	E-182	REFRIGERATED COUNTER 24"	TRUE - TVC-24-HC-CH	SW27-12M00MP	120/1		1/5		
1	E-183	UNDER COUNTER REFRIGERATOR 24" RIGHT	TRUE	TUC-24-HC	120/1	2			
DINING									
2	E-500	SODA MACHINE	CORNELIUS	IMI CIE COMBO DF200	120/1	5		+18"	
2	E-501	ICE MACHINE	ICE O Matic	GEM095A	208/1	11.8		+18"	3
2	E-502	JUICE DISPENSER	GRINDMASTER CERILWARE	D25-3	120/1	6		+18"	
1	E-510	AUDIO AMPLIFIER	BOSE	POWERSHARE PS602	120/1	1			
1	E-511	AUDIO CONTROL CENTER	BOSE	CONTROLCENTER CC-1	120/1				
3	E-512	SPEAKER - DINING	BOSE	FREESPACE DS 100F	120/1				
2	E-513	SPEAKER - RESTROOM	BOSE	FREESPACE DS 16F	120/1				
2	E-514	SPEAKER - PATIO	BOSE	FREESPACE DS 100SE	120/1				
KITCHEN									
1	E-300-ST	WALK IN COOLER/FREEZER							
1	E-310	CAPSULE PAK REFRIGERATION UNIT	TRUE	STG1F-1S-HC	120/1	2			3
1	E-311	CAPSULE PAK FREEZER UNIT	TRUE	STG2F-2S-HC	120/1	7			3
1	E-320	DISHWASHER	ECOLAB	ES2000HT-V	208/3	47			3
1	E-421	TEA BREWER	BUNN-O-MATIC	TB30-0059	120/1	14.4		+52"	3
1	E-425	IMMERSION BLENDER	WARING COMMERCIAL	WASB-60	120/1	6.5			3
1	E-426	BACKUP DOUGH PRESS	DOUGHPRESS / DMS-2-18	EDWARD DON	SEE PLAN	SEE PLAN			
1	E-428	COKE BIB RACK	COCA COLA		120/1	10			
1	E-430	AUDIT SAFE	AMSEC	DSF2516	120/1				
2	E-431	NAT GAS TANKLESS WATER HEATER	Noritz / NCC199CDV (GQ-C3259WZ-FF US NG)	Contractor	SEE PLAN	SEE PLAN			
GENERAL NOTES									
A. REVIEW ALL FOOD SERVICE PLAN SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS NOT LISTED IN THIS SCHEDULE.									
B. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AND WATER PROOF CONNECTIONS FOR ALL FLEXIBLE DIRECT CONNECTIONS.									
C. PROVIDE GFCI TYPE RECEPTACLES FOR ALL 125V 1PH AND 20A RECEPTACLES. PROVIDE GFCI BREAKERS WHERE NOT ACCESSIBLE.									
D. MAKE ALL FINAL CONNECTIONS TO ALL KITCHEN AND COOLER EQUIPMENT. PROVIDE ALL APPURTENANCES AS REQUIRED.									
E. CONTRACTOR SHALL FURNISH AND INSTALL ALL KITCHEN EQUIPMENT. SEE EQUIPMENT SCHEDULE ON SHEET A-602 FOR ADDITIONAL INFORMATION.									
SPECIFIC NOTES									
1. PROVIDE SHUNT TRIP BREAKERS FOR "POWER OFF" CONTROL OF ALL EQUIPMENT UNDER HOOD BY FIRE SUPPRESSION SYSTEM.									
2. PROVIDE DATA CONNECTION FOR POS TERMINAL. COORDINATE LOCATION WITH OWNER.									
3. COORDINATE RECEPTACLE TYPE WITH MANUFACTURER PRIOR TO ROUGH IN. PROVIDE AS REQUIRED.									
4. LIGHT FIXTURES PROVIDED BY COOLER MANUFACTURER ELECTRICAL CONTRACTOR TO PROVIDE LAMPS FOR INTEGRATED FIXTURES.									
5. EARLY INSTALL REQUIRED.									

CURRENT LIMIT PANEL SCHEDULE					
LOCATION: BACK OF HOUSE			MOUNTING: FLUSH VOLTAGE: 120V		
POLE #	CURRENT LIMITER TRIP RATING	CURRENT LIMITER POLE	CIRCUIT	CIRCUIT WATTAGE	ALLOWED WATTAGE
1	1	1	TP2-28	81	120
2	1	2	TP2-28	84	120
3					
4					
5					
6					
7					
8					
9					
10					

MECHANICAL EQUIPMENT CONNECTION SCHEDULE									
TAG	DESCRIPTION	HP/KWVA	VOLTS/ PHASE	FLA	MOCP	DISC. SWITCH	CIRCUIT	REMARKS	NOTES
EF-1	KITCHEN HOOD TYPE I EXHAUST FAN/PIZZA OVEN	0.500HP	115/1	8.4 FLA	20	Sm	TP2-23	VIA HOOD CONTROL PANEL	1,2
EF-2 & EF-3	RESTROOMS EXHAUST FAN	33.1W	120/1	4.8FLA	20	Sm	TP1-42	CONTROLLED BY TIMECLOCK	1,3
GW1	ELECTRICAL WATER HEATERS	18 KW	120/1	4 FLA	20	Sm	TP1-37, TP1-39		-
CP-1	CIRCULATING PUMP	1/12 HP	120/1	1.75 FLA	20	Sm	TP1-24	CONTROLLED BY TIMECLOCK	1
GENERAL EQUIPMENT CONNECTION SCHEDULE NOTES (APPLIES TO ALL EQUIPMENT LISTED IN THE SCHEDULE)									
A.	THE ABOVE INFORMATION FOR SPECIFIC MANUFACTURER. THE ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR ACTUAL LOADS, CIRCUIT AMPACITY AND OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO ELECTRICAL ROUGH IN.								
B.	LOCAL DISCONNECTING MEANS PER NEC AND AHJ REQUIREMENTS. STARTERS ARE SEPARATELY MOUNTED UNLESS OTHERWISE NOTED.								
C.	ABBREVIATIONS:								
	HRS	HORSE POWER MOTOR RATED DISCONNECT SWITCH WITH OVERLOAD PROTECTION, 16-AMP MINIMUM, RED PILOT LIGHT. PROVIDE 1-POLE OR 2-POLE AS REQUIRED.							
	Sm	MOTOR RATED TOGGLE SWITCH.							
	TS	TOGGLE SWITCH, 16-AMP MINIMUM, RED PILOT LIGHT. PROVIDE 1-POLE OR 2-POLE AS REQUIRED.							
	MOCP	MAXIMUM OVERCURRENT PROTECTION.							
D.	ALL DISCONNECTS ARE 3-POLE UNLESS NOTED OTHERWISE.								
E.	PROVIDE A ROOFTOP WEATHERPROOF GFI DUPLEX RECEPTACLE WITHIN 25 FEET OF ALL ROOF MOUNTED HVAC UNITS AS REQUIRED BY NEC.								
SCHEDULE NOTES (APPLIES TO ALL SPECIFIC EQUIPMENT AS NOTED IN "NOTES" COLUMN)									
1.	CONNECT TO TIMER SWITCH AT BACK OF HOUSE FOR CONTROL.								
2.	REFER TO CAPTIVE-AIRE SYSTEM DETAILS ON H-SHEETS FOR MORE INFORMATION.								
3.	EXISTING CIRCUIT.								



1 ANSUL PULL STATION
NTS
FOR REFERENCE ONLY



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SEAL



10/14/2021

DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

E-601
ELECTRICAL SCHEDULES & DETAILS

Panel Wiring Schedule (3-Phase)

LABEL "ELECTRIC SERVICE 1 OF 2"

Ckt. No.	EQPT. #	Load Description	Brkr. Size	Brkr. Opts.	N.E.C. kVA	Phase	N.E.C. kVA	Brkr. Opts.	Brkr. Size	Load Description	EQPT. #	Ckt. No.
1					1.800	A	0.000			SPARE		2
3	E120	DOUGH PRESS	303	GFCI	1.800	B	0.000			SPARE		4
5					1.800	C	0.800	GFCI		REFRIGERATED CABINET		6
7		EXTERIOR SIGN			0.500	A	0.800	GFCI		REFRIGERATED CABINET		8
9		EXTERIOR SIGN			0.500	B	0.360	GFCI		FUTURE EXPO PICKUP		10
11		EXTERIOR SIGN			0.500	C	0.360	GFCI		KITCHEN CONV. RECEPT.		12
13	E501	ICE MACHINE	202	GFCI	0.600	A	0.500			DUCT SMOKE		14
15					0.600	B	0.400			RTU RECEPT.		16
17	E434	NETWORK RACK		GFCI	0.360	C	1.800	GFCI		TEA BREWER		18
19	E510	NETWORK MAP		GFCI	0.500	A	0.000			SPARE		20
21		MANAGER DESK RECEPT		GFCI	0.360	B	0.400	GFCI		TIMECLOCK		22
23		COOLER/FRZR/DOOR HEATER		GFCI	0.540	C	0.200	GFCI		CP-1		24
25	E300-RT	WALK-IN COOLER/FRZR		GFCI	0.600	A	0.750	GFCI		IMMERSION BLENDER		26
27					1.188	B	0.600	GFCI		SODA MACHINE		28
29	E310	WALK-IN CONDENSOR	152	GFCI	1.188	C	0.700	GFCI		JUICE DISPENSER #1		30
31					0.936	A	0.700	GFCI		JUICE DISPENSER #2		32
33	E311	WALKIN FREEZER CONDENSOR	152	GFCI	0.936	B	0.650			FUTURE DOUGH PRESS		34
35					0.400	C	0.650	GFCI				36
37	E431	GWH-1		GFCI	0.480	A	0.720	GFCI		CONVENIENCE RECEPT.		38
39	E431	GWH-2		GFCI	0.480	B	0.500	GFCI		BAG-IN-BOX		40
41		COOLER DOOR HEATER		GFCI	1.600	C	0.150			RESTROOM FANS		42
43		GENERAL RECEPT.			0.360	A	0.000			SPARE		44
45		SPARE			0.000	B	0.000			SPARE		46
47		FUTURE WING STATION			1.200	C	0.800	GFCI		UNDERCOUNTER REFRIGERATOR	E150	48
49					2.728	A	0.000			SPARE		50
51		EXISTING RTU-1	403	HACR	2.728	B	0.000			SPARE		52
53					2.728	C	0.000			SPARE		54
55					2.728	A	0.000			SPARE		56
57		EXISTING RTU-2	403	HACR	2.728	B	0.000			SPARE		58
59					2.728	C	0.000			SPARE		60

Notes:
 * All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.
 ** All Phases to be balanced to within 10% using Actual Load Totals.

Breaker Options:
 AS Powerlink AS Breaker
 LO Handle lock-on device
 ST Shunt Trip Type
 AUX Auxiliary Contacts
 PA Handle Padlock Attachment
 GFCI Ground Fault Circuit Interrupter
 HACR Heating, A/C & Refrigeration
 SF Subfeed
 AFCI Arc Fault Circuit Interrupter

N.E.C. Connected Totals: Ph A 14.698 kVA
 N.E.C. Connected Totals: Ph B 14.224 kVA
 N.E.C. Connected Totals: Ph C 18.498 kVA
 Total 47.420 kVA

Existing Circuit to remain E
 Isolated Ground Circuit IG

Connected Load: 131.6 amps
 NEC Demand Feeder Load: 136.0 amps

Panel Wiring Schedule (3-Phase)

LABEL "ELECTRIC SERVICE 2 OF 2"

Ckt. No.	EQPT. #	Load Description	Brkr. Size	Brkr. Opts.	N.E.C. kVA	Phase	N.E.C. kVA	Brkr. Opts.	Brkr. Size	Load Description	EQPT. #	Ckt. No.
1	E139	REF COUNTER 72"		GFCI	0.864	A	0.360	GFCI		ONLINE ORDER PRINT		2
3	XE135	UC FRIDGE		GFCI	0.800	B	0.350	GFCI		EMV READER		4
5		MOD BADGE RECEPT.		GFCI	0.360	C	0.240	GFCI		U.C. REF. RECEPT.		6
7		SPARE			0.000	A	0.000			SPARE		8
9		SPARE			0.000	B	0.700	GFCI		E155, E156, E157, E158 POS		10
11		FUTURE DIGITAL BOARD		GFCI	0.360	C	0.240	GFCI		U.C. REF. RECEPT.		12
13					5.616	A	0.000			SPARE		14
15	E320	DISHWASHER	603	GFCI	5.616	B	0.000			SPARE		16
17					5.616	C	0.000			SPARE		18
19		FUTURE PREORDER BOARD		GFCI	0.100	A	0.000			SPARE		20
21		CONV. RECEPT.		GFCI	0.360	B	1.000			LIGHTING - BOH		22
23		DIRECT VENT EF-1		GFCI	0.200	C	1.000			LIGHTING - DINING/PIZZA		24
25		SPARE			0.000	A	0.500			LIGHTING - R.R		26
27		OPEN SIGN RECEPT.			1.600	B	1.000			LIGHTING - DISPLAY		28
29		SHOW WINDOW RECEPT.			0.360	C	1.000			LIGHTING E-600		30
31		ARROW SIGN			1.200	A	1.200			LIGHTING - DINING/PIZZA		32
33		FUTURE POWER - KIOSK			0.360	B	0.800			E102, E107, PIZZA OVEN		34
35		SPARE			0.000	C	0.200			SHUNT TRIP FOR PIZZA OVEN		36
37		MENU BOARD		GFCI	0.400	A	0.360			FUTURE POWER		38
39		SPARE			0.000	B	0.360			FUTURE POWER		40
41		EXTERIOR RECEPT.		GFCI	0.400	C	0.360			FUTURE POWER KDS		42
43		SPARE			0.000	A	0.000			SPARE		44
45		SPARE			0.000	B	0.000			SPARE		46
47		SPARE			0.000	C	0.000			SPARE		48
49		SPARE			0.000	A	5.332			SPARE		50
51		SPARE			0.000	B	5.332	HACR	603	NEW RTU-3		52
53		SPARE			0.000	C	5.332					54
55		SPARE			0.000	A	5.332					56
57		SPARE			0.000	B	5.332	HACR	603	NEW RTU-4		58
59		SPARE			0.000	C	5.332					60

Notes:
 * All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.
 ** All Phases to be balanced to within 10% using Actual Load Totals.

Breaker Options:
 AS Powerlink AS Breaker
 LO Handle lock-on device
 ST Shunt Trip Type
 AUX Auxiliary Contacts
 PA Handle Padlock Attachment
 GFCI Ground Fault Circuit Interrupter
 HACR Heating, A/C & Refrigeration
 SF Subfeed
 AFCI Arc Fault Circuit Interrupter

N.E.C. Connected Totals: Ph A 21.264 kVA
 N.E.C. Connected Totals: Ph B 23.610 kVA
 N.E.C. Connected Totals: Ph C 21.000 kVA
 Total 65.874 kVA

Existing Circuit to remain E
 Isolated Ground Circuit IG

Connected Load: 182.9 amps
 NEC Demand Feeder Load: 189.0 amps

"ELECTRIC SERVICE 1 OF 2"

ELECTRIC LOAD SUMMARY
208Y/120V SERVICE

DESCRIPTION	N.E.C. CONNECTED kVA	NEC DEMAND NOTES	N.E.C. DEMAND FACTOR	N.E.C. DEMAND kVA
LIGHTING (CONTINUOUS)	1.500	[1]	1.25	1.875
TRACK LIGHT DEMAND ALLOWANCE	-	[2]	-	0.000
SHOW WINDOW DEMAND ALLOWANCE	-	[3]	-	0.000
KIT APPLIANCE	24.854	[4]	0.65	16.155
RECEPTACLES	2.300	[5]	-	2.300
MOTORS	0.000	[6]	-	0.000
HVAC SYSTEM	16.356	[6]	-	17.572
HVAC SYSTEM - NON COINCIDENT	0.000	[7]	0.0	0.000
ELECTRIC WATER HEATER	0.960	-	1.0	0.960
MISCELLANEOUS	1.450	-	1.0	1.450
TOTAL	47.420			40.312

N.E.C. DEM. kVA X 1000 / SYS. VOLTAGE X 1.732 = MINIMUM FEEDER AMPERAGE
 40.312 X 1000 / 208 X 1.732 = 111.9 AMPS

- [1] POWER FACTOR IS ALREADY INCLUDED IN LIGHTING LOAD.
- [2] 150VA/2FT OF LINE VOLTAGE TRACK + SUM LOW VOLTAGE XF RMS - CONNECTED LOAD
- [3] 200VA/1F - ACTUAL CONNECTED LOAD
- [4] KIT APPLIANCE DEMAND FACTOR PER NEC 220-56
- [5] 0.0 < 10KW = 100%, REMAINING = 50%
- [6] 125% OF THE LARGEST MOTOR OR COMPRESSOR IN SYSTEM APPLIED ON ONE UNIT.
- [7] EQUIPMENT WILL NOT BE OPERATING WHILE SYSTEM IS AT MAXIMUM DEMAND.

"ELECTRIC SERVICE 2 OF 2"

ELECTRIC LOAD SUMMARY
208Y/120V SERVICE

DESCRIPTION	N.E.C. CONNECTED kVA	NEC DEMAND NOTES	N.E.C. DEMAND FACTOR	N.E.C. DEMAND kVA
LIGHTING (CONTINUOUS)	8.860	[1]	1.25	11.075
TRACK LIGHT DEMAND ALLOWANCE	-	[2]	-	0.000
SHOW WINDOW DEMAND ALLOWANCE	-	[3]	-	0.000
KIT APPLIANCE	22.222	[4]	0.65	14.444
RECEPTACLES	2.600	[5]	-	2.600
MOTORS	0.000	[6]	-	0.000
HVAC SYSTEM	31.992	[6]	-	31.992
HVAC SYSTEM - NON COINCIDENT	0.000	[7]	0.0	0.000
ELECTRIC WATER HEATER	0.000	-	1.0	0.000
MISCELLANEOUS	0.200	-	1.0	0.200
TOTAL	65.874			60.311

N.E.C. DEM. kVA X 1000 / SYS. VOLTAGE X 1.732 = MINIMUM FEEDER AMPERAGE
 60.311 X 1000 / 208 X 1.732 = 167.4 AMPS

- [1] POWER FACTOR IS ALREADY INCLUDED IN LIGHTING LOAD.
- [2] 150VA/2FT OF LINE VOLTAGE TRACK + SUM LOW VOLTAGE XF RMS - CONNECTED LOAD
- [3] 200VA/1F - ACTUAL CONNECTED LOAD
- [4] KIT APPLIANCE DEMAND FACTOR PER NEC 220-56
- [5] 0.0 < 10KW = 100%, REMAINING = 50%
- [6] 125% OF THE LARGEST MOTOR OR COMPRESSOR IN SYSTEM APPLIED ON ONE UNIT.
- [7] EQUIPMENT WILL NOT BE OPERATING WHILE SYSTEM IS AT MAXIMUM DEMAND.

GENERAL NOTES

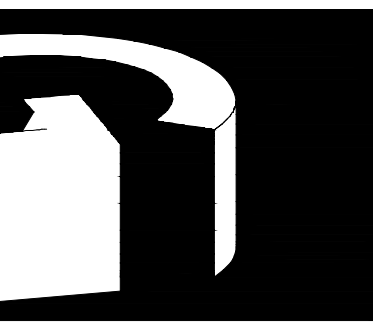
1. CONDUCTOR SIZES SHOWN ARE COPPER UNLESS NOTED OTHERWISE.
2. LOAD CALCULATIONS SHOWN IS FOR MOD PIZZA TENANT AND FEEDER ONLY. LANDLORD RESPONSIBLE FOR ELECTRICAL SERVICE AND LOAD CALCULATION AND VERIFICATION OF EXISTING SERVICE CAPACITY.
3. LANDLORD PROVIDING CONDUIT STUB UP TO SWITCH AND CONDUCTORS.
4. LANDLORD PROVIDING CONDUIT SAFETY SWITCH, FUSES, PANEL MP WITH BREAKERS.
5. EXISTING ELECTRICAL SYSTEM PROVIDED BY LANDLORD. E.C TO VERIFY EXISTING CONDITIONS AND COORDINATE WITH ENGINEER IF ANY DISCREPANCY.

ELECTRICAL WORK NOT REVIEWED UNDER BUILDING PERMIT



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ARCHITECT OF RECORD



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SEAL

10/14/2021



DOWNTOWN
 KIRKLAND
 230 MAIN STREET
 KIRKLAND, WA 98033

ISSUED / REVISED DATE
 PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

E-602
 RISER DIAGRAM AND PANEL SCHEDULES

2 PANEL SCHEDULES
 NTS

1 ONE-LINE DIAGRAM
 NO SCALE

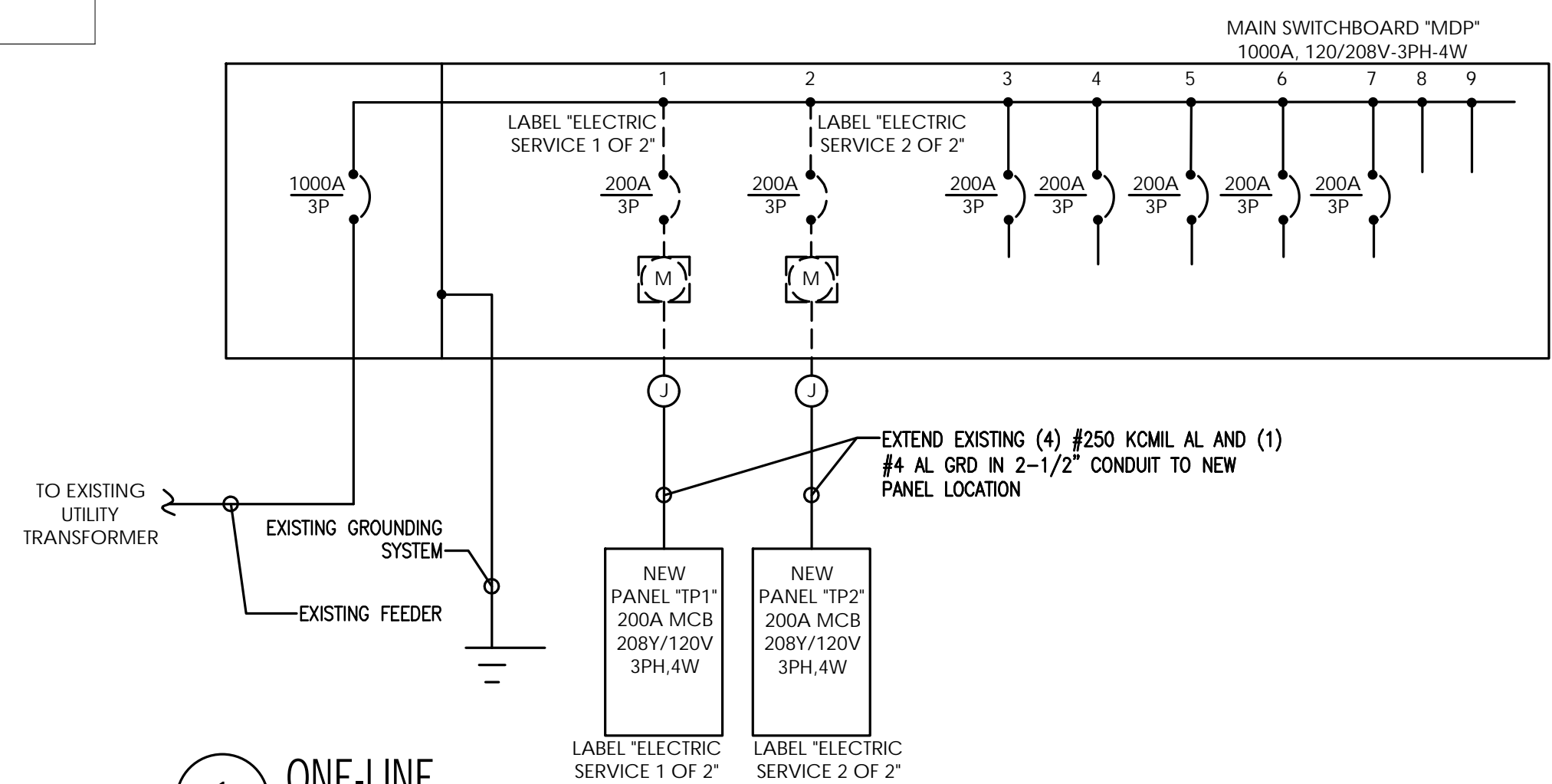


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DMISON 0 – BIDDING AND CONTRACT REQUIREMENTS

005200 AGREEMENT FORMS

- A. THE AA A117 "ABBREVIATED FORM OF AGREEMENT BETWEEN TENANT AND CONTRACTOR", SHALL GOVERN THE WORK.

007200 GENERAL CONDITIONS

- A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AN DOCUMENT A201, 1997 EDITION, SHALL GOVERN THE WORK. COPIES MAY BE OBTAINED AT A NOMINAL CHARGE FROM THE AA OFFICE, 1911 1ST AV, SEATTLE, WA 98101; 206/448-4936.
- B. THE FOLLOWING SUPPLEMENTS TO THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AN DOCUMENT A201, 1997 EDITION. ALL UNALTERED PROVISIONS OF THE GENERAL CONDITIONS SHALL REMAIN IN EFFECT.

ARTICLE 1 GENERAL PROVISIONS

- A. ADD THE FOLLOWING NEW SUBPARAGRAPHS TO 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS:

"1.2.4 DIVISION 1 SPECIFICATION SECTIONS—GENERAL REQUIREMENTS, GOVERN THE EXECUTION OF ALL SECTIONS OF THE SPECIFICATIONS.

"1.2.6 THE REFERENCE STANDARDS REFERRED TO IN THE CONTRACT DOCUMENTS SHALL BE THE EDITION IN EFFECT AT THE TIME OF THE AGREEMENT, UNLESS SPECIFICALLY STATED OTHERWISE.

"1.2.7 EXCEPT AS OTHERWISE PROVIDED IN THE AGREEMENT, DOCUMENTS NUMBERED 00000 THROUGH 04999, AND BOUND IN FRONT OF THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" IN THE PROJECT MANUAL, CONSIST OF INTRODUCTORY INFORMATION, BIDDING REQUIREMENTS, AND INFORMATION AVAILABLE TO THE CONTRACTOR, AND ARE NOT PART OF THE CONTRACT.

- B. ADD THE FOLLOWING SUBPARAGRAPHS TO 1.4 INTERPRETATION:

"1.4.2 SPECIFICATIONS AND NOTES ARE WRITTEN IN IMPERATIVE AND ABBREVIATED FORM. IMPERATIVE LANGUAGE OF THE TECHNICAL SECTIONS IS DIRECTED AT THE CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE. INCOMPLETE SENTENCES SHALL BE COMPLETED BY INSERTING "SHALL," "SHALL BE," "THE CONTRACTOR SHALL," AND SIMILAR MANDATORY PHRASES BY INFERENCE. THE WORDS "SHALL BE" SHALL BE SUPPLIED BY INFERENCE WHERE A COLUMN (3) IS USED.

"1.4.3 WHERE "AS SHOWN," "AS DETAILED," OR WORDS OF SIMILAR MEANING ARE USED, REFERENCES TO THE DRAWINGS ARE INTENDED UNLESS STATED OTHERWISE. WHERE "AS DIRECTED," "AS REQUIRED," "AS SELECTED," "APPROVED" OR WORDS OF SIMILAR MEANING ARE USED, IT SHALL BE UNDERSTOOD THAT "BY THE ARCHITECT" FOLLOWS UNLESS STATED OTHERWISE. "AS NECESSARY" SHALL BE UNDERSTOOD TO MEAN "AS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONING INSTALLATION IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS, APPLICABLE CODES AND JURISDICTIONAL REQUIREMENTS, AND ACCEPTED TRADE PRACTICES." "TURNISH" MEANS "CONTRACTOR SHALL PROCURE, PAY FOR, AND DELIVER;" "INSTALL" MEANS "CONTRACTOR SHALL SET IN POSITION AND CONNECT OR ADJUST FOR FINAL USE;" "PROVIDE" MEANS "CONTRACTOR SHALL FURNISH AND INSTALL."

ARTICLE 2 TENANT

- NO MODIFICATIONS.

ARTICLE 3 CONTRACTOR

- A. DELETE SUBPARAGRAPH 3.7.1, AND SUBSTITUTE THE FOLLOWING:

"3.7.1 UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE TENANT WILL PAY FOR THE GENERAL PLAN CHECK FEE AND THE BUILDING PERMIT. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL OTHER PERMITS, GOVERNMENTAL FEES, LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK."

ARTICLE 4 ADMINISTRATION OF THE CONTRACT

- A. ADD THE FOLLOWING SENTENCE TO SUBPARAGRAPH 4.2.4:

"COPIES OR MEMOS OF ALL DIRECT COMMUNICATIONS BETWEEN THE TENANT AND CONTRACTOR FACILITATING CONTRACT ADMINISTRATION SHALL BE PROMPTLY TRANSMITTED TO THE ARCHITECT BY THE PARTY INITIATING THE COMMUNICATION."

ARTICLE 5 SUBCONTRACTORS

- A. ADD THE FOLLOWING NEW SUBPARAGRAPH TO 5.1 DEFINITION:

"5.1.3 THE TERMS "INSTALLER," "FABRICATOR," AND "SUPPLIER," AS REFERENCED IN THE CONTRACT DOCUMENTS, OR IN THE CONTRACT DOCUMENTS, REFER TO THE CONTRACTOR, A SUBCONTRACTOR, OR A SUB-SUBCONTRACTOR."

ARTICLE 6 CONSTRUCTION BY TENANT OR BY SEPARATE CONTRACTORS

- NO MODIFICATIONS.

ARTICLE 7 CHANGES IN THE WORK

- NO MODIFICATIONS.

ARTICLE 8 TIME

- A. ADD THE FOLLOWING NEW SUBPARAGRAPH TO 8.3 DELAYS AND EXTENSIONS OF TIME:

"8.3.4 SHOULD AN EXTENSION OF TIME BE GRANTED BY THE TENANT TO THE CONTRACTOR, THE CONTRACTOR SHALL INDEMNIFY AND SAVE HARMLESS THE TENANT FROM THE LOSS TO ANY SUBCONTRACTOR CAUSED BY SUCH EXTENSION OF TIME."

ARTICLE 9 PAYMENTS AND COMPLETION

- NO MODIFICATIONS.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

- NO MODIFICATIONS.

ARTICLE 11 INSURANCE AND BONDS

- NO MODIFICATIONS.

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

- NO MODIFICATIONS.

ARTICLE 13 MISCELLANEOUS PROVISIONS

- NO MODIFICATIONS.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

- NO MODIFICATIONS.

DMISON 1 – GENERAL REQUIREMENTS

011000 SUMMARY

- A. THIS SPECIFICATION IDENTIFIES REQUIREMENTS FOR SEVERAL PRODUCTS, AND MAY CONTAIN ELEMENTS WHICH DO NOT APPLY TO THIS PARTICULAR PROJECT. WHERE NOTED IN THE SPECIFICATIONS, PLEASE REFER TO THE DRAWINGS TO DETERMINE WHETHER THE SPECIFIED ELEMENT APPLIES TO THIS PROJECT.
- B. USE OF PREMISES:

- 1. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL HAVE FREE AND COMPLETE USE OF THE SITE.
- 2. COORDINATE CONSTRUCTION SCHEDULE AND OPERATIONS WITH THE TENANT.
- 3. LIMIT NOISE PRODUCTIONS WORK TO THE HOURS BETWEEN 7 AM AND 7 PM MONDAY THROUGH FRIDAY, AND 9 AM AND 6 PM ON SATURDAYS AND SUNDAYS. COOPERATE WITH TENANT TO MINIMIZE NOISE IMPACTS ON ADJACENT PROPERTIES.

C. SPECIAL WORK REQUIREMENTS:

012300 ALTERNATES

- 1. COMPLY WITH ALL DESIGN AND CONSTRUCTION REQUIREMENTS OF THE BUILDING OWNER. NOTIFY THE ARCHITECT IMMEDIATELY IF THE BUILDING OWNER'S REQUIREMENTS CONFLICT WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 2. LIMIT USE OF PREMISES TO ONLY THOSE AREAS INVOLVED IN THE CONSTRUCTION OPERATIONS AND AS TENTATIVELY REQUIRED FOR ACCESS.
- 3. COORDINATE USE OF PREMISES UNDER DIRECTION OF THE TENANT AND THE BUILDING OWNER, AND IN ACCORDANCE WITH THE REQUIREMENTS OF JURISDICTIONAL CODE AUTHORITIES.
- 4. OCCUPANCY REQUIREMENTS: ADJACENT TENANT SPACES MAY BE OCCUPIED. COOPERATE WITH THE TENANT AND THE BUILDING OWNER TO MINIMIZE CONFLICT, AND TO FACILITATE THE OPERATIONS OF ADJACENT TENANTS.

D. SEPARATE WORK:

- 1. ITEMS NOTED "NOT (NOT IN CONTRACT), WILL BE FURNISHED AND INSTALLED BY OTHERS.
- 2. PERFORM WORK SO AS TO ALLOW THE PERFORMANCE OF WORK BY OTHER CONTRACTORS.

E. PRODUCTS FURNISHED BY TENANT FOR INSTALLATION BY THE CONTRACTOR (FOCI):

- 1. COORDINATE WORK TO FACILITATE INSTALLATION OF PRODUCTS FURNISHED BY THE TENANT FOR INSTALLATION BY THE CONTRACTOR.
- 2. TENANT'S RESPONSIBILITIES:

- a. ARRANGE FOR AND DELIVER SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, TO CONTRACTOR.
- b. ARRANGE AND PAY FOR PRODUCT DELIVERY TO SITE.
- c. UPON DELIVERY, INSPECT PRODUCTS JOINTLY WITH CONTRACTOR.
- d. SUBMIT CLAIMS FOR TRANSPORTATION DAMAGE.
- e. ARRANGE FOR REPLACEMENT OF DAMAGED, DEFECTIVE, OR MISSING ITEMS.
- f. ARRANGE FOR MANUFACTURERS' WARRANTIES, INSPECTIONS, AND SERVICE.

F. CONTRACTOR'S RESPONSIBILITIES:

- a. REVIEW SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- b. RECEIVE AND UNLOAD PRODUCTS AT SITE; INSPECT FOR COMPLETENESS, FOR DAMAGE, JOINTLY WITH TENANT.
- c. HANDLE, STORE, INSTALL AND FINISH PRODUCTS.
- d. REPAIR OR REPLACE ITEMS DAMAGED BY WORK OF THIS CONTRACT.

- F. APPLICATIONS FOR PAYMENT: SUBMIT THREE COPIES OF EACH APPLICATION UNDER PROCEDURES OF SECTION 013300 ON AA G702 – APPLICATION AND CERTIFICATE FOR PAYMENT, OR A FORM APPROVED BY THE TENANT.

G. COORDINATION:

- 1. COORDINATE WORK TO ASSURE EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF CONSTRUCTION ELEMENTS, WITH PROVISIONS FOR ACCOMMODATING ITEMS INSTALLED LATER.
- 2. COORDINATE SPACE REQUIREMENTS FOR MECHANICAL AND ELECTRICAL SYSTEMS. MAKE RUNS PARALLEL WITH LINES OF BUILDING. UTILIZE SPACES EFFICIENTLY, AND MAXIMIZE ACCESSIBILITY FOR MAINTENANCE, REPAIR, AND OTHER INSTALLATIONS.
- 3. EXECUTE CUTTING AND PATCHING TO INTEGRATE ELEMENTS OF THE WORK. REMOVE ILT-TIMED AND DEFECTIVE WORK AND REPLACE WITH NEW WORK CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 4. UNCOVER DEFECTIVE AND NONCONFORMING WORK AND FURNISH SAMPLES AS REQUIRED FOR TESTING.
- 5. SEAL PENETRATIONS THROUGH FLOORS, WALLS, AND CEILING.

H. FIELD ENGINEERING:

- 1. PROVIDE FIELD ENGINEERING SERVICES; ESTABLISH GRADES, LINES, AND LEVELS, BY USE OF RECOGNIZED ENGINEERING SURVEY PRACTICES.
- 2. CONTROL POINTS ARE THOSE SHOWN ON DRAWINGS. LOCATE AND PROJECT CONTROL AND REFERENCE POINTS. NOTIFY THE ARCHITECT IF REFERENCE POINTS CANNOT BE LOCATED.
- 3. UNLESS SPECIFIED OTHERWISE, SUBMIT THE NUMBER OF SUBMITTALS THE CONTRACTOR REQUIRES, PLUS ONE WHICH WILL BE RETAINED BY THE TENANT.

I. REQUEST FOR INFORMATION:

- 1. ALLOW TIME TO RESOLVE QUESTIONS CONCERNING THE CONSTRUCTION DOCUMENTS WITH THE TENANT.
- 2. USE FORM AS APPROVED BY THE TENANT.

012300 ALTERNATES

- A. STATE THE COST TO BE ADDED OR SUBTRACTED FROM THE CONTRACT AMOUNT FOR EACH OF THE FOLLOWING ALTERNATES:
- 1. ALTERNATE NO. 1:

- a. UNDER BASIC BID: PROVIDE CONSTRUCTION AND FINISH WORK AS INDICATED ON THE DRAWINGS FOR [] .
- b. UNDER ALTERNATE NO. 1: PROVIDE CONSTRUCTION AND FINISH WORK AS INDICATED ON THE DRAWINGS FOR [] IN LIEU OF WORK INDICATED FOR [] .

013119 PROJECT MEETINGS

- A. PROGRESS MEETINGS: ATTEND PROGRESS MEETINGS CALLED BY THE ARCHITECT THROUGHOUT THE PROCESS OF THE WORK.
- B. CONVEY A PRE-INSTALLATION MEETING WHEN IT IS SPECIFIED FOR A CERTAIN PORTION OF THE WORK. REQUIRE ATTENDANCE OF ENTITIES DIRECTLY AFFECTING, OR AFFECTED BY, THE WORK OF THE SECTION.

013300 SUBMITTAL PROCEDURES

- A. SUBMITTAL PROCEDURE:
- 1. IDENTIFY DEVIATIONS FROM CONTRACT DOCUMENTS. LEAVE SPACE FOR CONTRACTOR AND TENANT REVIEW STAMPS.
- 2. REVIEW AND SIGN EACH SUBMITTAL PRIOR TO SUBMITTAL TO THE TENANT. UNSIGNED SUBMITTALS WILL BE RETURNED BY THE TENANT.
- 3. UNLESS SPECIFIED OTHERWISE, SUBMIT THE NUMBER OF SUBMITTALS THE CONTRACTOR REQUIRES, PLUS ONE WHICH WILL BE RETAINED BY THE TENANT.
- 4. TRANSMIT EACH ITEM TO THE TENANT UNDER THE CONTRACTOR'S STANDARD TRIANGULAR FORM AS APPROVED BY THE TENANT. INCLUDE PROJECT NAME, CONTRACTOR NAME, SUBCONTRACTOR OR SUPPLIER NAME, AND DRAWING SHEET, DETAIL NUMBER, OR SPECIFICATION SECTION NUMBER CORRESPONDING TO THE SUBMITTAL AS APPROPRIATE.
- 5. MAKE SUBMITTALS AS REQUIRED TO CAUSE NO DELAY IN THE WORK. ALLOW SUFFICIENT TIME FOR POSSIBLE REVISION AND RESUBMITTAL OF REJECTED SUBMITTALS. COORDINATE SUBMITTAL OF RELATED ITEMS.
- 6. REVISE AND RESUBMIT REJECTED SUBMITTALS AS REQUIRED TO OBTAIN APPROVAL. IDENTIFYING CHANGES MAKE SINCE PREVIOUS SUBMITTAL.

B. PROGRESS AND VALUE SCHEDULES:

- 1. PROGRESS SCHEDULE: SUBMIT HORIZONTAL BAR CHART WITH SEPARATE BAR FOR EACH MAJOR TRADE OR OPERATION, IDENTIFYING FIRST WORK DAY OF EACH WEEK.
- 2. SCHEDULE OF VALUES:

- a. SUBMIT TYPED SCHEDULE ON AA FORM G703, OR OTHER FORM AS APPROVED BY THE TENANT.
- b. SUBMIT WITH EACH MAJOR TRADE OR CATEGORY OF WORK.
- c. INCLUDE A LINE ITEM AMOUNT FOR EACH ALLOWANCE.
- d. INCLUDE IN EACH LINE ITEM A DIRECTLY PROPORTIONAL AMOUNT OF CONTRACTOR'S OVERHEAD AND PROFIT.

- 3. SUBMIT PROGRESS AND VALUE SCHEDULES IN DUPLICATE WITHIN 5 DAYS AFTER NOTICE TO PROCEED.
- 4. SUBMIT REVISED SCHEDULES WITH EACH APPLICATION FOR PAYMENT; REVISED SCHEDULES SHALL REFLECT CHANGES, INCLUDING CHANGE ORDERS, SINCE PREVIOUS SUBMITTAL.

C. SHOP DRAWINGS, PRODUCT DATA AND SAMPLES:

- 1. SHOP DRAWINGS:
- a. NUMBER OF COPIES: UNLESS OTHERWISE SPECIFIED, SUBMIT TO THE TENANT ONE LEGIBLE, PRINT-READING YELLOW REPRODUCIBLE AND ONE COPY FOR REVIEW, EXCEPT THAT SHOP DRAWINGS 1117 OR SMALLER MAY BE SUBMITTED IN THE FORM OF TWO BLACK/INK OR ELECTROSTATIC BOND COPIES.
- b. THE TENANT WILL RETURN ONE COPY TO CONTRACTOR WITH CORRECTIONS, NOTATIONS AND TENANT'S STAMP INDICATING ACTION TO BE TAKEN.
- c. UNLESS SPECIFIED OTHERWISE, SHOP DRAWINGS SHALL SHOW QUANTITIES, MATERIALS, METHODS OF ASSEMBLY, ADJACENT CONSTRUCTION, DIMENSIONS, AND ALL OTHER APPROPRIATE INFORMATION TO FULLY ILLUSTRATE THE WORK.

2. PRODUCT DATA:

- a. MARK EACH COPY TO IDENTIFY APPLICABLE PRODUCTS, MODELS, OPTIONS AND OTHER DATA, SUPPLEMENT MANUFACTURER'S STANDARD DATA TO PROVIDE INFORMATION UNIQUE TO THE WORK.
- b. SUBMIT THE NUMBER OF COPIES WHICH CONTRACTOR REQUIRES, PLUS 2 COPIES WHICH WILL BE RETAINED BY THE TENANT.

3. SAMPLES:

- a. SUBMIT SAMPLES AS SPECIFIED IN THE TECHNICAL SECTIONS.
- b. INCLUDE IDENTIFICATION ON EACH SAMPLE OWING FULL INFORMATION.
- c. SUBMIT THREE SAMPLES, ONE OF WHICH WILL BE RETAINED BY TENANT, UNLESS INDICATED OTHERWISE IN THE TECHNICAL SECTION.

D. CERTIFICATES: SUBMIT THE ORIGINAL SIGNED VERSION TO THE TENANT.

E. THE TENANT MAY FURNISH DOCUMENTS AND ELECTRONIC DATA WHICH MAY BE USED AS BASES FOR PREPARATION OF SHOP DRAWINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH INFORMATION TO SUBCONTRACTORS AND SUPPLIERS. REQUEST DOCUMENTS BY SUBMITTING AN EXCITED COPY OF THE "REQUEST FOR TRANSFER OF DOCUMENTS" FORM, ATTACHED AT THE END OF THIS SECTION. USE OF SUCH DOCUMENTS IMPLIES CONTRACTOR'S AND SUBCONTRACTOR'S AGREEMENT TO THE TERMS DESCRIBED ON THE FORM. FULLY DESCRIBE REQUIREMENTS FOR EACH REQUEST.

014500 QUALITY CONTROL

- A. STANDARDS: COMPLY WITH INDUSTRY STANDARDS EXCEPT WHEN MORE RESTRICTIVE TOLERANCES OR SPECIFIED REQUIREMENTS INDICATE MORE RIGID STANDARDS OR MORE PRECISE WORKMANSHIP.
- B. PERFORM ALL WORK TO MEET OR EXCEED THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES, LAWS, REGULATIONS, SAFETY ORDERS, AND DIRECTIVES FROM AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- C. PERFORM WORK WITH PERSONS QUALIFIED TO PROVIDE WORKMANSHIP OF SPECIFIED QUALITY.
- D. MOCK-UPS:

- 1. PROVIDE MOCK-UPS AS SPECIFIED IN THE INDIVIDUAL SPECIFICATION SECTIONS. PROVIDE ADDITIONAL MOCK-UPS, AS REQUIRED BY THE TENANT, UNTIL APPROVAL IS OBTAINED.
- 2. DO NOT PROCEED WITH SUBSEQUENT WORK UNTIL APPROVAL OF THE MOCK-UP IS OBTAINED.
- 3. APPROVAL OF MOCK-UP SHALL BE THE STANDARD OF WORKMANSHIP, AND MATERIALS FOR THE REMAINDER OF THE WORK SIMILAR TO THE MOCK-UP.
- 4. MAINTAIN MOCK-UP IN APPROVED CONDITION UNTIL DIRECTED OTHERWISE.
- 5. UNLESS SPECIFIED OTHERWISE, REMOVE MOCK-UP AT COMPLETION, WHEN DIRECTED BY TENANT.

- E. INSTALLED PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, WHERE CONFLICT EXISTS BETWEEN MANUFACTURER'S RECOMMENDATIONS AND THE SPECIFIED REQUIREMENTS. NOTIFY THE TENANT IMMEDIATELY.

F. EXAMINATION PRIOR TO INSTALLATION:

- 1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE TENANT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
- 2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

G. TESTING LABORATORY SERVICES:

- 1. THE TENANT WILL ARRANGE FOR THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO INSPECT AND TEST THE WORK TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS. REPORTS OF ALL INSPECTIONS AND TESTS SHALL BE SUBMITTED TO THE TENANT FOR REVIEW.
- 2. CONTRACTOR'S RESPONSIBILITIES:

- a. COOPERATE WITH TESTING LABORATORY PERSONNEL, AND FURNISH ACCESS, TOOLS, SAMPLES, CERTIFICATIONS, TEST REPORTS, DESIGN MIXES, EQUIPMENT, STORAGE, AND ASSISTANCE AS REQUESTED BY THE TESTING LABORATORY.
- b. NOTIFY TENANT AND TESTING LABORATORY 48 HOURS PRIOR TO EXPECTED TIME FOR OPERATIONS REQUIRING INSPECTION AND TESTING. WHEN TESTS OR INSPECTIONS CANNOT BE PERFORMED, THROUGH THE FAULT OF THE CONTRACTOR, REMEMBRANCE THE TENANT FOR THE ADDITIONAL COSTS INCURRED.
- c. REMOVE AND REPLACE ALL WORK FOUND NOT COMPLYING WITH THE CONTRACT DOCUMENTS, REMEDIES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CODE REQUIREMENTS.
- d. IF FINAL TESTS AND INSPECTIONS INDICATE DEFICIENT WORK, THE CONTRACTOR SHALL REMBURSE THE TENANT FOR THE COSTS OF ALL SUBSEQUENT TESTS AND INSPECTIONS RELATED TO THE DEFICIENCY.
- e. ALL DAMAGE WHICH MAY OCCUR TO THE WORK AS A RESULT OF NORMAL TESTING OPERATIONS SHALL BE REPAIRED TO MATCH SURROUNDING SURFACES.
- f. SCHEDULE TESTING AND INSPECTION SO THAT THE WORK OF TESTING AND INSPECTION PERSONNEL WILL BE AS CONTINUOUS AND BRIEF AS POSSIBLE.
- 3. TESTS AND INSPECTIONS SHALL BE IN ACCORDANCE WITH CODE REQUIREMENTS.

015000 TEMPORARY FACILITIES AND CONTROLS

- A. TEMPORARY UTILITIES: PROVIDE TEMPORARY UTILITIES, SERVICES, AND CONSTRUCTION AS REQUIRED TO PERFORM THE WORK. COORDINATE ALL TEMPORARY FACILITIES AND CONTROLS WITH THE TENANT.
- 1. ELECTRICITY: CONNECT TO EXISTING SERVICE. TENANT WILL PAY COSTS OF ENERGY USED. TAKE MEASURES TO CONSERVE ENERGY.
- 2. LIGHTING: PERMANENT LIGHTING MAY BE USED DURING CONSTRUCTION. PROVIDE ADDITIONAL TEMPORARY LIGHTING AS REQUIRED. MAINTAIN LIGHTING AND MAKE ROUTINE REPAIRS.
- 3. HEATING AND VENTILATION: PERMANENT SYSTEM MAY BE USED. THE TENANT WILL PAY FOR THE COST OF ENERGY USED. MAINTAIN SYSTEM DURING OPERATION.
- 4. WATER: UTILIZE EXISTING FACILITIES. TENANT WILL PAY FOR WATER USED.
- 5. SANITARY FACILITIES: PROVIDE AND MAINTAIN REQUIRED PORTABLE FACILITIES AND ENCLOSURES.

B. CONTROLS:

- 1. DUST CONTROL: PROVIDE POSITIVE METHODS AND APPLY DUST CONTROL MATERIALS TO MINIMIZE RAISING DUST FROM CONSTRUCTION OPERATIONS, AND PROVIDE POSITIVE MEANS TO PREVENT AIRBORNE DUST FROM DISPERSING INTO THE ATMOSPHERE.
- 2. WATER CONTROL: COMPLY WITH APPLICABLE JURISDICTIONAL REQUIREMENTS REGARDING WATER USAGE, CONSERVATION, DETENTION, POLLUTION, AND PERMITS.
- C. MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO SITE AND WITHIN SITE TO PROVIDE UNINTERRUPTED ACCESS.

- 1. TO TEMPORARY CONSTRUCTION FACILITIES, STORAGE AND WORK AREAS.
- 2. FOR USE BY PERSONS AND EQUIPMENT INVOLVED IN CONSTRUCTION OF PROJECT.
- 3. FOR USE BY EMERGENCY VEHICLES.
- 4. TO MINIMIZE IMPACT ON ADJACENT OPERATIONS.

- D. FIRE SAFETY: COMPLY WITH APPLICABLE PROVISIONS OF UFC ARTICLE 87 FOR FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION OPERATIONS.

- E. TEMPORARY CONSTRUCTION:
- 1. OBTAIN APPROVAL FROM BUILDING OWNER FOR ALL MODIFICATIONS TO EXISTING SYSTEMS OR FACILITIES NOT INDICATED.
- 2. REMOVE TEMPORARY SYSTEMS OR FACILITIES WHEN USE IS NO LONGER REQUIRED. CLEAN AND REPAIR DAMAGE CAUSED BY INSTALLATION OR USE OF TEMPORARY SYSTEMS OR FACILITIES.

- F. CONSTRUCTION CLEANING:
- 1. CONTROL ACCUMULATION OF WASTE MATERIALS AND RUBBISH. DAILY DISPOSE OF OFF-SITE OR IN APPROVED CONTAINERS ON SITE.
- 2. MAINTAIN AREAS FREE OF DUST AND OTHER CONTAMINANTS DURING FINISHING OPERATIONS.

016000 PRODUCT REQUIREMENTS

- A. DELIVERY, STORAGE AND HANDLING:
- 1. TRANSPORT AND HANDLE PRODUCTS BY METHODS TO AVOID PRODUCT DAMAGE.
- 2. MANUFACTURED PRODUCTS SHALL REMAIN IN MANUFACTURER'S CONTAINERS OR PACKAGING, UNTIL READY FOR INSTALLATION.
- 3. UNLESS SPECIFIED OTHERWISE, STORE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

- B. PRODUCT OPTIONS AND SUBSTITUTIONS:
- 1. WHERE SPECIFICATIONS INDICATE A SINGLE PROPRIETARY PRODUCT, SUBSTITUTIONS WILL NOT BE CONSIDERED. FURNISH PRODUCTS SPECIFIED, EXCEPT WHERE "OR APPROVED" IS USED.
- 2. SUBSTITUTIONS WILL BE CONSIDERED ONLY FOR THE FOLLOWING REASONS:

- a. A PRODUCT BECOMES UNAVAILABLE DUE TO NO FAULT OF THE CONTRACTOR.
- b. SUBSEQUENT INFORMATION OR CHANGES INDICATE THAT THE SPECIFIED PRODUCT WILL NOT PERFORM AS INTENDED.
- 3. DOCUMENT EACH SUBSTITUTION REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH CONTRACT DOCUMENTS. REQUESTS FOR SUBSTITUTION SHALL BE MADE IN WRITING TO THE TENANT ON FORM APPROVED BY TENANT. LIMIT EACH REQUEST TO ONE PROPOSED PRODUCT OR SYSTEM. FOR SUBSTITUTIONS PRIOR TO AGREEMENT, SIGNATURE AND PROJECTED COST DATA ARE NOT REQUIRED.

- 4. A SUBSTITUTION REQUEST CONSTITUTES A REPRESENTATION THAT CONTRACTOR:
- a. HAS INVESTIGATED PROPOSED PRODUCT AND HAS DETERMINED THAT IT MEETS OR EXCEEDS, IN ALL RESPECTS, THE SPECIFIED PRODUCT.
- b. SHALL PROVIDE THE SAME WARRANTY FOR EQUIPMENT AS FOR SPECIFIED PRODUCT.
- c. WILL COORDINATE REINSTALLATION AND MAKE OTHER CHANGES THAT MAY BE REQUIRED FOR WORK TO BE COMPLETE IN ALL RESPECTS.
- d. WAIVES CLAIMS FOR ADDITIONAL COSTS THAT MAY SUBSEQUENTLY BECOME APPARENT.
- e. AGREES TO PAY ALL COSTS OF REVISION RELATED TO THE SUBSTITUTION.

- 5. SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN THEY ARE INDICATED OR IMPLIED ON SHOP DRAWINGS OR PRODUCT DATA SUBMITTALS.
- 6. TENANT AND TENANT WILL DETERMINE ACCEPTABILITY OF PROPOSED SUBSTITUTION, AND WILL NOTIFY CONTRACTOR OF ACCEPTANCE OR REJECTION WITHIN A REASONABLE TIME.

- C. GENERAL PRODUCT INSTALLATION REQUIREMENTS: PERFORM WORK IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DO NOT OMIT ANY PREPARATORY STEP OR INSTALLATION PROCEDURE UNLESS SPECIFICALLY MODIFIED OR EXEMPTED BY CONTRACT DOCUMENTS.

017329 CUTTING AND PATCHING

- A. REPAIR EXISTING SURFACES AND CONSTRUCTION AS NECESSARY TO MAKE WORK COMPLETE, WITH ALL COMPONENTS MATCHING AND CONSISTENT.
- B. PROVIDE A SMOOTH, EVEN, AND UNIFORM TRANSITION TO NEW CONSTRUCTION, WHEN FINISHED SURFACES ARE CUT SO THAT AN INVISIBLE TRANSITION WITH NEW WORK IS NOT POSSIBLE, TERMINATE EXISTING SURFACE ALONG THE NEAREST BREAK LINE, JOINT, OR CORNER.
- C. PATCHING OF EXISTING CONCRETE SLABS ON GRADE:

- 1. ENSURE THAT BELOW GRADE CONSTRUCTION IS COMPLETE IN THE SLAB AREA TO BE PATCHED.
- 2. REPLACE EXISTING SUBGRADE MATERIALS TO MATCH EXISTING. REPLACE AND MAKE CONTINUOUS WORK BARRIERS AND OTHER SIMILAR CONSTRUCTION DISTURBED OR DAMAGED DURING DEMOLITION OR CONSTRUCTION OPERATIONS.
- 3. RECOMPACT EXISTING SUBGRADE TO 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
- 4. PATCH SLAB WITH CONCRETE HAVING A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
- 5. FINISH CONCRETE TO MATCH ADJACENT SURFACES.
- D. MAJOR PATCHING PROCEDURES SHALL BE REVIEWED WITH THE TENANT, PRIOR TO PROCEEDING.

017700 CLOSEOUT PROCEDURES

- A. FINAL CLEANING:
- 1. THOROUGHLY CLEAN ALL SURFACES PRIOR TO FINAL ACCEPTANCE.
- 2. REMOVE WASTE AND SURPLUS MATERIALS, RUBBISH, AND CONSTRUCTION FACILITIES FROM THE SITE.

- B. PRODUCT RECORD DOCUMENTS:
- 1. MAINTAIN A COMPLETE SET OF RECORD DRAWINGS WHICH CLEARLY AND NEATLY INDICATE EXACT INSTALLED LOCATIONS OF ITEMS WHICH WILL BE CONCEALED IN THE WORK SUCH AS CONDUIT, PIPING, DUCTS, REINFORCING, MECHANICAL AND ELECTRICAL EQUIPMENT, AND SIMILAR ITEMS. SHOW ALL CHANGES FROM THE CONTRACT DOCUMENTS, AND ALL UNCOVERED EXISTING CONDITIONS WHICH WILL BE SUBSEQUENTLY CONCEALED.
- 2. RECORD DRAWINGS SHALL BE USED FOR NO OTHER PURPOSE AND SHALL BE STORED SEPARATELY FROM THOSE USED FOR CONSTRUCTION.
- 3. DOCUMENTS SHALL BE IN SAME FORMAT AS THE CONSTRUCTION DOCUMENTS.
- 4. KEEP DOCUMENTS CURRENT; DO NOT PERMANENTLY CONCEAL ANY WORK UNTIL REQUIRED INFORMATION HAS BEEN USED.

- 5. AT CONTRACT CLOSEOUT, SUBMIT DOCUMENTS WITH TRANSMITTAL LETTER CONTAINING DATE, PROJECT TITLE, CONTRACTOR'S NAME AND ADDRESS, LIST OF DOCUMENTS, AND SIGNATURE OF CONTRACTOR.

- C. SUBMITTALS: IN ADDITION TO SUBMITTALS REQUIRED BY THE CONDITIONS OF THE CONTRACT, AND SUBMITTALS REQUIRED BY SECTION 013300, FURNISH SUBMITTALS REQUIRED BY GOVERNING AUTHORITIES, AND SUBMIT A FINAL STATEMENT OF ACCOUNTING OWING TO: TOTAL ADJUSTED CONTRACT SUM, PREVIOUS PAYMENTS, AND SUM REMAINING DUE.

- D. OPERATION AND MAINTENANCE DATA:
- 1. SUBMIT COMPLETE DATA FOR EACH PIECE OF EQUIPMENT AND COMPONENT USED IN THE WORK.
- 2. SUBMIT OPERATION AND MAINTENANCE DATA FOR MECHANICAL AND ELECTRICAL SYSTEMS.
- 3. ARRANGE IN A BINDER WITH A SECTION FOR EACH SYSTEM.
- 4. WARRANTIES, GUARANTEES AND BONDS:

- 1. SUBMIT ALL MANUFACTURER WARRANTIES.
- 2. FURNISH WRITTEN GUARANTEES FROM EACH SUBCONTRACTOR PERFORMING WORK COVERED BY THE ADDITIONAL GUARANTEE REQUIREMENTS SPECIFIED IN THE TECHNICAL SECTIONS. UNLESS SPECIFIED OR APPROVED OTHERWISE, THE GUARANTEE SHALL COMMENCE ON THE DATE OF SUBSTANTIAL COMPLETION.
- 3. EACH GUARANTEE SHALL BE

- 9) COORDINATION WITH OTHER WORK.
- 3. MOOK-UP: ON SITE, PRIOR TO THE FIRST APPLICATION OF THE DENSIFIER.
 - a. REQUIRE ATTENDANCE OF PARTIES DIRECTLY AFFECTING WORK OF THIS SECTION, INCLUDING THE CONTRACTOR, ARCHITECT, APPLICATOR, AND OWNER'S REPRESENTATIVE.
 - b. NOTIFY THE ABOVE PARTIES ONE WEEK IN ADVANCE OF DATE AND TIME WHEN MOOK-UP WILL BE COMPLETED.
 - c. DEMONSTRATE THE MATERIALS, EQUIPMENT AND APPLICATION METHODS TO BE USED FOR WORK SPECIFIED HEREIN IN PRE-APPROVED LOCATION APPROXIMATELY 50 SQ. FT. IN AREA OR AS DIRECTED BY [ARCHITECT]'S OWNER'S REPRESENTATIVE].
 - d. RETAIN APPROVED MOOK-UP DURING CONSTRUCTION AS A STANDARD FOR JUDGING THE COMPLETED WORK. AREAS MAY REMAIN AS PART OF THE COMPLETED WORK.

- PRE- DENSIFIER CONCRETE CLEANER: CLEANER TO REMOVE DIRT, OIL, GREASE, AND OTHER STAINS FROM EXISTING SLAB SURFACE.
 - 1. PRODUCT: CONSOLIDECK CLEANER/DEGREASER MANUFACTURED BY PROSOOD, INC., LAMARCOE, KS, (800) 255-4255, WWW.PROSOOD.COM.
- 5. PENETRATING DENSIFIER: "CONSOLIDECK LS/C'S" BY PROSOOD, INC. (800-255-4255), NO SUBSTITUTIONS.
- 6. STAIN RESISTANT SURFACE TREATMENT: "CONSOLIDECK POLISH GUARD" BY PROSOOD, INC. (800-255-4255), NO SUBSTITUTIONS.
- H. CONCRETE MAINTENANCE CLEANER: LITHIUM SILICATE QUARTZ CRYSTALLINE MAINTENANCE CLEANER TO KEEP MAINTAIN CONCRETE SURFACE SHEN AND REMOVE DIRT AND SOILS.
 - 1. CONSOLIDECK LSKLEAN ULTRA 30, PRE-MEASURED 4 OZ PACKS, MANUFACTURED BY PROSOOD, INC.; NO SUBSTITUTIONS.

- L. FLOOR MAINTENANCE PADS:
 - 1. WHITE FLOOR MAINTENANCE PADS.
- J. SPILL CLEAN-UP KIT: PROVIDE CRITICAL CLEANING ITEMS TO REMOVE SPILLS FROM CONCRETE FLOORS. SPILL CLEAN-UP KIT SHOULD INCLUDE THE FOLLOWING:
 - 1. ONE QUART OF CONSOLIDECK CLEANER/DEGREASER, ONE QUART OF CONSOLIDECK OIL AND GREASE REMOVER, TWO POUND SPILL GUARD NEUTRALIZER/ABSORBER, ONE PACKAGE OF MULTI ABSORBENT SHOP TOWELS, ONE SMALL PLASTIC SCRAPER, ONE HAND BROOM AND DUST PAN, A COLLAPSIBLE WARNING SIGN, 50 WASTE BAGS LINERS FOR 24 X 24 CAN LINER, AND ONE BOX OF GENERAL PURPOSE VINYL GLOVES.

- K. EXAMINATION
 - 1. EXAMINE SUBSTRATES AND CONDITIONS UNDER WHICH CONCRETE RESURFACING WILL BE PERFORMED FOR COMPLIANCE WITH REQUIREMENTS FOR APPLICATIONS OF FLOORING MATERIALS. DO NOT PROCEED WITH APPLICATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. START OF ANY OF THE RESURFACING WORK WILL BE CONSTRUED AS THE APPLICATOR'S ACCEPTANCE OF THE FLOOR AND ENVIRONMENT CONDITIONS.
 - 2. CONDITION OF SUBSTRATE: VERIFY THAT ALL JOBSITE CONDITIONS ARE WITHIN THE PRODUCT MANUFACTURER'S DATA SHEET PARAMETERS. REPORT DISCREPANCIES TO THE ARCHITECT.
 - a. SURFACE TEMPERATURE OF SLAB MUST BE AT LEAST 40 DEGREES F. AND NO MORE THAN 90 DEGREES F. FOR CRACK AND JOINT FILLERS AND COATING.
 - b. IF THERE ARE ANY INDICATIONS OF A MOISTURE PROBLEM, CONTACT THE ARCHITECT.

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 - b. IF THERE ARE ANY INDICATIONS OF A MOISTURE PROBLEM, CONTACT THE ARCHITECT.

- L. PREPARATION
 - 1. COMPLY WITH THE CONCRETE COATING MANUFACTURER RECOMMENDATIONS AND AS FOLLOWS: PREPARED SURFACE SHALL BE SMOOTH AND FREE OF RIDGES AND IRREGULARITIES INCLUDING THOSE OCCURRING IN CONCRETE AND FROM MASTICS.
 - 2. INITIAL CONCRETE SLAB PREPARATION: PROVIDE INITIAL PREPARATION OF CONCRETE SURFACE AS FOLLOWS:
 - a. REMOVE DIRT, OIL, SOAP, GREASE, MORTAR, AND OTHER BOND-BREAKING CONTAMINANTS.
 - b. SURFACE SHALL BE SMOOTH AND FREE OF UNWANTED RIDGES FROM EITHER MISTERS OR CONCRETE.
 - 3. SURFACE REPAIR: FILL HOLES, SPALLS, CRACKS, VOIDS AND JOINTS AS RECOMMENDED BY THE SYSTEM MANUFACTURER WITH MINIMAL RESIDUE ON SURROUNDING SURFACE AND AS REQUIRED TO PROVIDE A SMOOTH, LEVEL AND EVEN SUBSTRATE.
 - a. SPALLS 1 TO 3 INCHES IN DIAMETER SHALL BE STRUCK FLUSH WITH PATCHING COMPOUND SPECIFIED IN SECTION 035416.
 - b. SPALLS LARGER THAN 3 INCHES IN DIAMETER AND AREAS REQUIRING LEVEL OR RESURFACING SHALL BE FILLED WITH SELF-LEVELING COMPOUND AS SPECIFIED IN SECTION 035416.
 - 4. FINE PREPARATION: SURFACES TO BE TREATED SHALL BE CLEAN, DRY AND ABSORBENT. CONFIRM SURFACE ABSORBENCY WITH A LIGHT WATER SPRAY. IF SURFACE DOES NOT WET UNIFORMLY, USE THE APPROPRIATE SURFACE PREPARATION METHOD FROM APPROVED MOOK-UP TO REMOVE REMAINING SURFACE CONTAMINANTS.

- G. SANDING
 - 1. SAND CONCRETE USING AN ORBITAL SANDER WITH 220-GRIT TO CREATE SUITABLE BONDING SURFACE FOR CONCRETE SEALER.
 - 2. REPEAT SANDING PROCESS USING 400- OR 600 GRIT PAPER.
 - 3. SAND EXPOSED SLABS AS REQUIRED TO MATCH APPROVED MOOK-UP OR CONTROL SAMPLE.
 - 4. PROVIDE SLAB SANDING AT ALL INSIDE CORNERS TO MATCH FLOOR FILL AND APPROVED MOOK-UP OR CONTROL SAMPLE.
 - 5. THE FINISHED SURFACE SHALL BE CLEAN AND POROUS WITH ABRDED ROUGHNESS OF LIGHT GRIT SANDPAPER.
 - 6. THE SANDING FLOOR SHALL BE SWEPT USING A FINE-BRISTLED PUSH BROOM. AFTER BROOMING, VACUUM ENTIRE FLOOR TO REMOVE ALL DUST AND DEBRIS.
 - 7. DAMP WET AND/OR WET VACUUM AS NECESSARY TO ATTAIN A PROPERLY CLEANED SURFACE.
 - 8. MAINTAIN SLAB FREE OF TRAFFIC BETWEEN SANDING AND APPLICATION OF CONCRETE COATING.
- H. APPLICATION OF DENSIFIER
 - 1. REMOVE ALL DIRT, DEBRIS, OR CURING COMPOUNDS USING SURFACE PREPARATION CLEANERS AS RECOMMENDED BY MANUFACTURER FOR CONDITIONS. ALLOW CLEANING WATERS USED IN SURFACE PREPARATION TO DRY.
 - 2. THE PREPARED SURFACE MUST WET UNIFORMLY. CONFORM SURFACE ABSORBENCY WITH A LIGHT WATER SPRAY. IN HOT, DRY WEATHER, PRE-WET THE CONCRETE WITH FRESH WATER. ALLOW ANY STANDING WATER TO EVAPORATE.
 - 3. APPLY A SINGLE COAT OF DENSIFIER USING A LOW PRESSURE SPRAYER FITTED WITH A 0.5 GPM SPRAY TIP. APPLY SUFFICIENT MATERIAL TO WET THE SURFACE WITHOUT PRODUCING PUDDLES. USE A CLEAN, SOFTBRISTLE PUSH BROOM OR MICROFIBER PAD TO SPREAD PRODUCT EVENLY AND ENSURE UNIFORM WETTING.
 - 4. AVOID SPREADING ONCE DRYING BEGINS. SCRUBBING IS NOT NECESSARY. IF SURFACES DRY IMMEDIATELY, APPLY MORE PRODUCT. SURFACE SHOULD REMAIN WET FOR 5-10 MINUTES. ADJUST RATE OF APPLICATION TO ELIMINATE PUDDLES.
 - 5. ALLOW TREATED SURFACES TO DRY.
 - 6. REMOVE ANY DRIED POWDER RESIDUE USING STIFF BRUSH, POWER SWEEPER OR FLOOR SCRUBBING MACHINE.
 - 7. DO NO SUBSEQUENT BUFFING OR BURNISHING OF SLAB.
- I. APPLICATION OF CONCRETE SEALER:
 - 1. LIGHTLY WET A CLEAN MICROFIBER PAD WITH SEALER, LEAVING THE PAD DAMP.
 - 2. SPRAY-APPLY SEALER USING A CLEAN, PUMP-UP SPRAYER FITTED WITH A 0.5 GPM CONICAL OR FAN SPRAY TIP. WORN FROM ONE CONTROL JOINT TO ANOTHER.
 - 3. SPREAD WITH THE DAMP MICROFIBER PAD. MAINTAIN A THIN, EVEN COATING AND WET EDGE. STOP SPREADING ONCE DRYING BEGINS. DO NOT OVERLAP.
 - 4. USE TWO PEOPLE - ONE SPRAYING AND ONE SPREADING - FOR BEST RESULTS.
 - 5. ALLOW TO DRY TACK FREE, TYPICALLY 20-40 MINUTES.
 - 6. REPEAT STEPS 1-4 FOR A SECOND COAT.
 - 7. DO NO FURTHER BUFFING OR BURNISHING OF CURED SEALER.
 - 8. FINISH: PROVIDE UNIFORM FINISHED SATIN SURFACE FREE OF STREAKS AND MARKS.

- P. FINISHING REQUIREMENTS:
 - 1. INTERIOR EXPOSED FINISHED SLAB AREAS SHALL COMPLY WITH THE FOLLOWING:
 - a. SLAB SURFACE SHALL MEET THE DESIRED SHEEN, AS DISCUSSED IN PRE-INSTALLATION MEETING AND BE CONSISTENT WITH APPROVED MOOK-UP.
 - b. SLAB SURFACE SHALL HAVE A CONSISTENT LOOK AND EXHIBIT A FINISH THAT HAS NO EVIDENCE OF STREAKING OR BURNISH MARKS.
 - c. WET RESIDUE OR WAX APPEARANCES IS NOT ACCEPTABLE.
 - d. EXPOSURE OF AGGREGATE BEYOND CRACK CLASS B - FINE AGGREGATE IS NOT ACCEPTABLE.
 - 2. INTERIOR EXPOSED FINISHED SLAB AREAS SHALL CONSIST OF THE FOLLOWING OPA GLOSS LEVEL:
 - a. FINISHED GLOSS LEVEL 2 - MEDIUM GLOSS APPEARANCE.

- Q. CLEAN-UP
 - 1. DURING PROGRESS OF WORK, REMOVE FROM SITE DISCARDED MATERIALS, RUBBISH, CANS AND PAYS AT END OF EACH WORK DAY.
 - 2. UPON COMPLETION OF WORK, CLEAN SPATTERED SURFACES. REMOVE SPATTERED COATING BY PROPER METHOD OF WASHING AND SCRUBING, USING CARE NOT TO SCRATCH OR OTHERWISE DAMAGE FINISHED SURFACES.

- R. PROTECTION
 - 1. PROTECT COMPLETED CONCRETE COATING WORK AGAINST DAMAGE.
 - 2. CLOSE APPLICATION AREA AFTER COMPLETION OF EACH STAGE FOR A MINIMUM OF 48 HOURS AND LONGER IF REQUIRED BY THE MANUFACTURER.
 - 3. PROTECT COATINGS FROM GENERAL CONSTRUCTION WHEN TACK-FREE WITH 1/4 INCH THICKNESS HARDENARD, SMOOTH SIDE DOWN. REMOVE PRIOR TO COMPLETION OF PROJECT.
 - 4. CORRECT DAMAGE BY CLEANING, REPAIRING OR REPLACING, AND REFINISHING, AS ACCEPTABLE TO THE ARCHITECT.

- 035416 **HYDRAULIC CEMENT UNDERLAYMENT**
 - A. SUMMARY:
 - 1. CEMENTITIOUS UNDERLAYMENTS AS NECESSARY FOR LEVELING OF NEW OR EXISTING CONCRETE FLOOR SUBSTRATES, AS NECESSARY TO MEET SPECIFIED TOLERANCES.
 - 2. CEMENTITIOUS TOPPING AS NECESSARY FOR LEVELING NEW OR EXISTING SLABS AT LOCATIONS INDICATED TO RECEIVE CONCRETE SEALER ONLY.
 - 3. RAMPS AND TAPERS AS NECESSARY TO ALIGN LEVELS BETWEEN DISSIMLAR FINISHES.
 - B. ENVIRONMENTAL REQUIREMENTS
 - 1. MAINTAIN SURFACE AND AMBIENT TEMPERATURE OF BETWEEN 50 AND 80 DEGREES F FOR 24 HOURS BEFORE, DURING, AND 24 HOURS AFTER UNDERLAYMENT INSTALLATION.
 - 5. KEEP TRAFFIC OUT OF AREA IN WHICH UNDERLAYMENT IS BEING APPLIED OR CURED.
 - C. UNDERLAYMENT AND TOPPING SYSTEMS:
 - 1. SELF LEVELING UNDERLAYMENT SYSTEM: SELF-LEVELING, POURABLE, CEMENT BASED MATERIAL, MINIMUM 28 DAY COMPRESSIVE STRENGTH 2,000 PSI, MINIMUM BOND STRENGTH 200 PSI. ONE OF THE FOLLOWING AS RECOMMENDED BY MANUFACTURER FOR CONDITIONS.
 - a. MAPET CORPORATION "ULTRAPLAN 1" OR "NOVOLPLAN 1.2"
 - b. ARDEX INC. "X-15" SELF-LEVELING UNDERLAYMENT CONCRETE
 - c. LATICRETE INTERNATIONAL, INC. "LATICRETE 86 LATELVEL THIN POUR UNDERLAYMENT."
 - 2. TROWELABLE UNDERLAYMENT SYSTEM: AS RECOMMENDED BY MANUFACTURER FOR CONDITIONS:
 - a. MAPET CORPORATION "MAPACEM 100" OR "FLANTOP 10".
 - b. ARDEX INC. "50-P" FAST-SETTING UNDERLAYMENT.
 - f. LATICRETE INTERNATIONAL, INC. "LATICRETE 220 MEDIUM BED MORTAR MIXED WITH "LATICRETE 3701 LATEX MORTAR ADMX."
 - 3. CEMENTITIOUS TOPPING: FOR REPAIR OF CONCRETE SURFACES AT LOCATIONS INDICATED TO RECEIVE CONCRETE SEALER OR NOT OTHERWISE COVERED BY FLOORING MATERIALS:
 - a. SELF-LEVELING TYPES:
 - 1) MAPET CORPORATION "ULTRATOP" SELF-LEVELING ABRASION-RESISTANT TOPPING.
 - 2) ARDEX INC. "X-500" SELF-LEVELING CONCRETE-TOPPING.
 - b. TROWELABLE TYPES:
 - 1) MAPET CORPORATION "MARECEM 100" FAST-SETTING TOPPING MORTAR
 - 2) ARDEX INC. "C0" SELF-DRYING CONCRETE DRESSING.
 - D. ACCESSORIES: FURNISH PRIMERS, PATCHING COMPOUNDS, AND SAND FILLERS AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER FOR THE CONDITIONS OF THE PROJECT.
 - E. THOROUGHLY MIX UNDERLAYMENT MATERIALS FOR EACH TYPE OF PRODUCT IN PROPER PROPORTIONS TO ACHIEVE SMOOTH HOMOGENEOUS MIX, FREE OF LUMPS.
 - F. PREPARATION
 - 1. INSPECT FLOOR TO VERIFY THAT DEMOLITION IS COMPLETE TO THE POINT WHERE WORK MAY PROGRESS.

- 2. SURVEY FLOOR AS NECESSARY TO SET SCREENS AND REFERENCE POINTS. IDENTIFY CONSTRUCTION JOINTS. PREPARE FOR UNDERLAYMENT AT ALL LOCATIONS WHERE FLOOR DOES NOT MEET SPECIFIED TOLERANCE REQUIREMENTS.
- 3. ENSURE THAT SUBFLOOR IS CLEAN, DRY, HARD, SOUND, AND FREE OF OILS, OR OTHER SUBSTANCE THAT WOULD AFFECT PROPER BONDING AND CURING.
- 4. VERIFY THAT ALL AREAS TO BE LEVELLED ARE AT OR BELOW FINAL DESIGN ELEVATION. GRIND DOWN HIGH SPOTS AS NECESSARY TO MEET SPECIFIED TOLERANCE REQUIREMENTS.
- G. APPLICATION
 - 1. INSTALL TROWELABLE UNDERLAYMENT AT LOCATIONS WHERE SLOPES ARE INDICATED AND AT OTHER LOCATIONS WHERE TAPERED FILL IS NECESSARY TO ALIGN THE FINISHED SURFACES OF THE VARIOUS FLOOR FINISH MATERIALS.
 - 2. INSTALL SELF-LEVELING UNDERLAYMENT AT EXISTING CONCRETE SLAB SURFACES TO CORRECT SLAB FLATNESS AND LEVELNESS.
 - 3. PROVIDE CEMENTITIOUS TOPPING AT LOCATIONS TO REMOVE DEFECTS IN THE FINISHED WORK.
 - 4. SET SCREENS, MARKERS, AND REFERENCE BLOCKS. SET SCREENS AT ALL CONSTRUCTION AND CONTROL JOINTS TO ESTABLISH WEAKENED PLANE JOINTS IN UNDERLAYMENT.
 - 5. INSTALL UNDERLAYMENTS AND TOPPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, WHERE SUBSEQUENT FINISHING OF THE MATERIAL IS REQUIRED. FLOAT TO LEVEL SURFACE. DO NOT TROWEL.
 - 6. APPLY PRIMER TO ALL AREAS TO RECEIVE UNDERLAYMENT AND TOPPING; REPEAT APPLICATIONS IF NECESSARY TO ACHIEVE PROPER BUILD.
 - 7. MIX MATERIALS AND POUR OR PUMP AND SQUEEGEE INTO PLACE TO ACHIEVE APPROPRIATE THICKNESS. PROVIDE FILL THICKNESS AS NECESSARY TO FLOOR FINISHES WITH ADJACENT FLOOR SURFACES.
 - 8. FINISH TO A SMOOTH UNIFORM SURFACE.
 - 9. CURE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

- B. TOLERANCES:
 - 1. VERY FLAT: LEVEL TO WITHIN 1/8" IN 10 FEET FFSO, FL30 OVER LEST AREA; FFS5, FL15 LOCAL MINIMUM.
 - 2. RAMPS: 1/4" PER FOOT SLOPE.
 - H. CLEANING: AS WORK PROGRESSES, CLEAN UP EXCESS MATERIALS, RUBBISH, AND SPLASH.

DIVISION 4 - MASONRY

- 042113 **BRICK MASONRY INFILL**
 - A. SUMMARY:
 - 1. FACE BRICK.
 - 2. REINFORCEMENT, ANCHORAGES, AND ACCESSORIES.
 - 3. RELATED FLASHING.
 - 4. BUILDING PAPER.
 - B. SUBMITTALS:
 - 1. SAMPLES:
 - a. BRICKS: MINIMUM THREE SAMPLES OF BRICK TYPE PROPOSED FOR THE WORK.
 - 1) FURNISH SAMPLES FROM PROPOSED SUPPLY SOURCE.
 - 2) SUBMIT QUANTITY OF BRICKS AS REQUIRED TO REPRESENT EXTREME RANGE OF COLOR AND FINSH OF BRICK TO BE FURNISHED.
 - 3) WHERE CUSTOM SIZES ARE SPECIFIED, SUBMIT BRICK OF SIMILAR SIZE TO THAT TO BE FURNISHED.
 - b. MORTAR:
 - 1) THREE CURED SAMPLES OF MORTAR PROPOSED FOR THE WORK.
 - 2) FURNISH CURED SAMPLE OF APPROVED EXTERIOR MASONRY VENEER MORTAR TO SECTION 079200 FOR COLOR MATCHING.
 - 2. SHOP DRAWINGS: INDICATE LOCATIONS AND CONFIGURATIONS OF BRICK, DIMENSION POINTS, LOCATIONS OF ALL FLASHINGS, CRITICAL DETAILS, REINFORCING, SPECIAL SHAPES, AND BRICK SCHEDULES.
 - 3. PRODUCT LITERATURE: FOR ALL ACCESSORY COMPONENTS, MORTAR MIXES, AND ADDITIVES.
 - 4. CERTIFICATIONS:
 - a. SUBMIT MANUFACTURER'S CERTIFICATE THAT MASONRY, AND REINFORCING, MEET OR EXCEED SPECIFIED REQUIREMENTS.
 - b. SUBMIT MANUFACTURER'S CERTIFICATION THAT MORTAR AND GROUT MEET THE SPECIFIED REQUIREMENTS.

- C. ENVIRONMENTAL CONDITIONS
 - 1. WET WEATHER: PROVIDE SUITABLE COVER OVER WORK EXPOSED TO WEATHER, PROTECT MATERIALS. MAINTAIN COVER OVER FINISHED WORK FOR 48 HOURS AFTER COMPLETION.
 - 2. COLD WEATHER: WHEN OUTSIDE TEMPERATURE IS BELOW 40 DEGREES F, OR IS EXPECTED TO FALL BELOW FREEZING WITHIN 48 HOURS (WEATHER BUREAU FORECAST), HEAT MATERIALS AND PROVIDE SUITABLE ENCLOSURES TO MAINTAIN TEMPERATURES ABOVE 40 DEGREES F IN MASONRY WORK IN PLACE FOR 48 HOURS AFTER COMPLETION. OBTAIN APPROVAL OF METHODS OF PROTECTION BEFORE PROCEEDING.

- D. MATERIALS:
 - 1. BRICK:
 - a. CONFORM TO ASTM C216 TYPE FBX-JOBBSITE, GRADE SW.
 - b. BRICK TYPES: MATCH EXISTING BRICKS.
 - c. PROVIDE SPECIAL SHAPES AS INDICATED.
 - 2. MORTAR: ASTM C270, TYPE S OR M, OR CUSTOM COLOR TO MATCH EXISTING.
 - 3. GROUT: IN ACCORDANCE WITH ASTM C476, 2000 PSI COMPRESSIVE STRENGTH.
 - 4. ATTACHMENT SYSTEM FOR FRAMING:
 - a. FOR ATTACHMENT TO FRAMED WALLS: HOHMANN & BARNHO, INC. "DW-10 SEMI-CLIP INTERLOCK SYSTEM", INCLUDING THE FOLLOWING:
 - 1) ANCHOR: "DW-10" ATTACHMENT ANCHOR WITH NEOPRENE GASKET.
 - 2) TIE: "BYNA-TE," WITH "SEISMICLP."
 - 3) REINFORCING WIRE: CONTINUOUS 9 GAGE WIRE.
 - b. FINISHES: HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.
 - 5. FASTENERS: GALVANIZED; FOR ATTACHMENT OF FASTENING SYSTEM THROUGH SHEATHING INTO FRAMING.
 - 6. FLEXIBLE FLASHING: W.R. GRACE "PEERM-A-BARRIER" WALL FLASHING.
 - 7. ROPE WEEPS: COTTON ROPE; 3/8 DIAMETER.
 - 8. BUILDING PAPER: "DUPONT TYVEK," OR APPROVED.
- E. CLEANING AGENT: ONE OF THE FOLLOWING AS RECOMMENDED BY THE BRICK MANUFACTURER AND THE CLEANER MANUFACTURER AS MOST APPROPRIATE FOR THE BRICK TYPE: PROSOOD, INC. "NO. 600 DETERGENT" OR PROSOOD, INC. "WAX TROL."
- 10. STAIN REMOVER: AS RECOMMENDED BY THE MANUFACTURER OF THE CLEANING AGENT.

- E. MORTAR AND GROUT MIXING:
 - 1. ADD APPROVED ADMIXTURES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROVIDE UNIFORMITY OF MIX AND COLORATION.
 - 2. DO NOT USE ANTI-FREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR OR GROUT.
 - 3. IF WATER IS LOST BY EVAPORATION, RETEMPER MORTAR WITHIN TWO HOURS OF MIXING. DO NOT RETEMPER MORTAR AFTER TWO HOURS OF MIXING.
 - 4. USE NO LIME IN GROUT.
- F. INSTALLATION:
 - 1. BUILDING PAPER INSTALLATION:
 - a. SEQUENCE WITH INSTALLATION OF FLASHING.
 - b. INSTALL ONE PLY OF BUILDING PAPER OVER SHEATHING OR SUBSTRATE AS DETAILED. LAP VERTICAL JOINTS 8 INCHES, MINIMUM; WEATHERLAP HORIZONTAL JOINTS 4 INCHES, MINIMUM. FASTEN TO SUBSTRATE.
 - c. LAP OVER THROUGH-WALL FLASHINGS.
 - d. SEAL AROUND ALL PENETRATIONS.
 - e. SEAL TO EXISTING BUILDING PAPER WITH TAPE. LAP IN SHINGLE FASHION TO EXISTING. LAP 6 INCHES MINIMUM WITH EXISTING PAPER.
 - 2. ANCHORAGE SYSTEM:
 - a. INSTALL ATTACHMENT SYSTEM AS INDICATED. WHERE NOT INDICATED, PLACE EACH ATTACHMENT ANCHOR AT 16 INCHES ON CENTER VERTICALLY ALONG EACH STUD FOR STUDS AT 16 INCHES ON CENTER.
 - b. COORDINATE WITH INSTALLATION OF FLASHING MATERIALS AND RELIEVING ANGLES.
 - c. FURNISH ADDITIONAL ANCHORS AT TOP COURSES, OPENINGS, CORNERS, AT EACH SIDE OF EXPANSION JOINTS, AND AT OTHER SPECIAL CONDITIONS.
 - d. SET TIES AND REINFORCING WIRE IN A BED OF MORTAR AND COVER WITH MORTAR FOR SECURE AND COMPLETE EMBEDMENT.
 - 3. TIES:
 - a. INSTALL TIES AND ANCHORAGE CLIPS IN SEQUENCE WITH MASONRY INSTALLATION.
 - b. PROVIDE CONTINUOUS 9 GAGE REINFORCING WIRE ENGAGED INTO THE ANCHORAGE CLIPS. LAP 9 GAGE WIRE AS RECOMMENDED BY THE ANCHORAGE SYSTEM MANUFACTURER.
 - c. SET TIES AND REINFORCING WIRE IN A BED OF MORTAR AND COVER WITH MORTAR FOR SECURE AND COMPLETE EMBEDMENT.
 - 4. COURSING:
 - a. PLACE MASONRY TO LINES AND LEVELS INDICATED.
 - b. MAINTAIN MASONRY COURSES TO UNIFORM HEIGHT.
 - c. LAY BRICK MASONRY UNITS IN RUNNING BOND TO MODULAR DIMENSIONS INDICATED. FORM TOWELED CONCAVE MORTAR JOINTS WHERE EXPOSED IN THE FINISHED WORK. CUT FLUSH AT CONCRALED LOCATIONS, INCLUDING JOINTS CONCRALED IN CAVITIES.
 - d. PROVIDE CLEANOUTS AT EACH COURSE SUPPORT AS NECESSARY TO MAINTAIN CHAMFER FREE OF DROPPINGS.

- 5. FLASHING AND BONDING:
 - a. LAY MASONRY IN FULL BED OF MORTAR, PROPERLY JOINTED WITH OTHER WORK. BUTTERING CORNERS OF JOINTS, AND DEEP OR EXCESSIVE FLOORING OF MORTAR JOINTS ARE NOT PERMITTED.
 - b. FULLY BOND INTERSECTIONS, AND EXTERNAL AND INTERNAL CORNERS.
 - c. DO NOT USE CHIPPED OR BROKEN UNITS.
 - d. DO NOT SHIFT OR TAP MASONRY UNITS AFTER MORTAR HAS TAKEN INITIAL SET. WHERE ADJUSTMENT MUST BE MADE, REMOVE MORTAR AND REPLACE.
 - e. REMOVE EXCESS MORTAR.
 - f. BONDING FRESH MASONRY TO SET, OR PARTIALLY SET, MASONRY:
 - 1) REMOVE LOOSE MORTAR.
 - 2) CLEAN AND LIGHTLY WET EXPOSED SURFACE OF SET MASONRY PRIOR TO LAYING FRESH MASONRY.
- 6. CUTTING AND FITTING:
 - a. CUT AND FIT MASONRY UNITS TO FORM THE CONFIGURATIONS INDICATED, AND AS REQUIRED TO FIT THE WORK OF OTHER SECTIONS. SAW MASONRY UNITS REQUIRING CUTTING WITH A MASONRY SAW. COORDINATE FULLY WITH OTHER SECTIONS OF WORK TO ENSURE CORRECT SIZE, SHAPE AND LOCATION.
 - b. CUT OR BLOCK OUT CHASES FOR OTHER TRADES AS DIRECTED BY THE ARCHITECT AT TIME OF MASONRY WORK.
 - c. OBTAIN ARCHITECT'S REVIEW PRIOR TO CUTTING OR FITTING ANY AREA WHICH IS NOT INDICATED ON DRAWINGS, OR WHICH MAY IMPAIR APPEARANCE OR STRENGTH OF MASONRY WORK.
 - d. DO NOT CUT FACES EXPOSED TO WEATHER.
 - e. MITER CUT BRICKS IN SOLDIER COURSES AT OUTSIDE CORNERS.
- 7. FLEXIBLE FLASHING:
 - a. CLEAN SURFACE OF MASONRY SMOOTH AND FREE FROM PROJECTIONS WHICH MIGHT FRACTURE OR OTHERWISE DAMAGE FLASHING MATERIAL.
 - b. INSTALL MEMBRANE FLEXIBLE FLASHING AS INDICATED, AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - c. AT SUPPORT ANGLES, START FLEXIBLE FLASHING AT EXTERIOR EDGE OF SUPPORT ANGLE AND EXTEND OVER ANGLE AND UP ONTO SUBSTRATE A MINIMUM OF 1-1/2 INCHES ABOVE TOP OF ANGLE VERTICAL LEG.
 - d. DIM FLASHING AT EXPANSION JOINTS AND AT ENDS OF LITELS, BY TURNING UP THE FLASHING A MINIMUM OF 4 INCHES.
 - e. SET BRICK OVER FLASHING IN A BED OF MORTAR.

- 8. WEEPHOLES:
 - a. PROVIDE WEEP OPENINGS IN HEAD JOINTS IN FIRST COURSE IMMEDIATELY ABOVE ALL FLASHING.
 - b. INSTALL ROPE WEEPS AT LOCATIONS INDICATED.
 - c. MAXIMUM SPACING: 2'-0" O.C.
 - d. KEEP WEEPHOLES AND AREA ABOVE FLASHING FREE OF MORTAR DROPPINGS.

- 9. EXPANSION/CONTROL JOINTS:
 - a. PROVIDE EXPANSION/CONTROL JOINTS AS INDICATED.
 - b. KEEP JOINTS CLEAR OF MORTAR.
 - c. PROVIDE EXPANSION JOINTS DIRECTLY BELOW RELIEVING ANGLES.
 - d. PROVIDE VERTICAL JOINTS AT ALL INSIDE CORNERS IN BRICK VENEER AND AT OTHER LOCATIONS AS INDICATED ON THE DRAWINGS.
 - e. JOINT WIDTH: MATCH TYPICAL MORTAR JOINT.
 - f. INSTALLATION OF SEALANTS IS SPECIFIED IN SECTION 079000.
 - g. DO NOT CONTINUE MASONRY REINFORCING ACROSS EXPANSION/CONTROL JOINTS.

- 10. BUILD-IN WORK:
 - a. AS WORK PROGRESSES, BUILD-IN HOLLOW METAL FRAMES, WINDOW FRAMES, STEEL LITELS, SHELF ANGLES, NAILING STRIPS, ANCHOR BOLTS, PLATES, AND OTHER SIMILAR ITEMS SUPPLIED BY OTHER TRADES.
 - b. BUILD-IN ITEMS PLUMB AND TRUE.
 - c. BED ANCHORS OF HOLLOW METAL FRAMES IN MORTAR JOINTS. FILL FRAME VOIDS SOLID WITH MORTAR. FILL MASONRY CORES WITH GROUT MINIMUM 12 INCHES FROM FRAMED OPENINGS.
 - d. DO NOT BUILD-IN ORGANIC MATERIALS WHICH WILL BE SUBJECTED TO ROT OR DETERIORATION.
- 11. AT THE END OF EACH DAYS WORK, STOP OFF HORIZONTAL RUNS BY STEPPING BACK EACH COURSE; TOOTHING IS NOT PERMITTED, EXCEPT AT TOOTHED CONTROL JOINTS, WHERE INDICATED.
- 12. CUT OUT DEFECTIVE JOINTS AND HOLES IN EXPOSED MASONRY AND REPOINT WITH MORTAR.
- 13. DRY BRUSH MASONRY SURFACE AFTER MORTAR HAS SET AT END OF EACH DAY'S WORK AND AFTER FINAL POINTING.
- 14. LEAVE WORK AREA AND SURROUNDING SURFACES CLEAN AND FREE OF MORTAR SPOTS, DROPPINGS, AND BROKEN MASONRY.
- 15. TOLERANCES:
 - a. MAXIMUM VARIATION FROM PLUMB:
 - 1) IN LINES AND SURFACES OF COLUMNS, WALLS AND ARISES:
 - a) 1/4 IN. IN 10 FT.
 - b) 3/8 IN. IN ANY STORY OR 20 FT. MAXIMUM.
 - c) 1/2 IN. IN 40 FT.
 - 2) FOR EXTERNAL CORNERS, EXPANSION JOINTS AND OTHER CONSPICUOUS LINES:
 - a) 1/4 IN. IN ANY STORY OR 20 FT. MAXIMUM.
 - b) 1/2 IN. IN 40 FT.
 - b. MAXIMUM VARIATION FROM LEVEL OR GRADES FOR EXPOSED LITEELS, SILLS, PARAPETS, HORIZONTAL GROOVES, AND OTHER CONSPICUOUS LINES: 1/4 IN. IN ANY BAY OR 20 FT.
 - c. MAXIMUM VARIATION OF LINEAR BUILDING LINE FROM AN ESTABLISHED POSITION IN PLAN AND RELATED PORTIONS OF COLUMNS, WALLS AND PARTITIONS:
 - 1) 1/2 INCH IN ANY BAY OR 20 FT. MAXIMUM.
 - 2) 3/4 INCH IN 40 FT.

- G. CLEANING:
 - 1. PROTECT ADJACENT SURFACES FROM CLEANING OPERATIONS WITH PROTECTIVE COVERING.
 - 2. REMOVE STAINS, EFFLORESCENCE, EXCESS MORTAR, AND OTHER DELETERIOUS MATERIALS IN ACCORDANCE WITH THE CLEANING AGENT AND STAIN REMOVER MANUFACTURER'S INSTRUCTIONS.
 - 3. THE USE OF MURATIC ACID FOR CLEANING MASONRY SURFACES IS PROHIBITED.

042115 ADHERED BRICK MASONRY VENEER

- A. SUMMARY:
 - 1. SECTION INCLUDES:
 - a. MORTAR SET BRICK VENEER.
 - b. CEMENTITIOUS BACKER BOARD.
- B. SYSTEM DESCRIPTION
 - 1. THE SYSTEM CONSISTS OF EXTERIOR THIN BRICK VENEER ADHERED TO APPROVED BACKER BOARD MATERIAL WITH CEMENTITIOUS GROUT OR THIN-SET MORTAR.
 - 2. APPEARANCE: DESIGN EXTERIOR ADHERED MASONRY SYSTEM TO CONFORM TO THE GENERAL APPEARANCE AS INDICATED ON THE DRAWINGS, INCLUDING LOCATIONS OF JOINTS, SHAPES AND DIMENSION POINTS.
 - 3. ADHERED MASONRY VENEER: ADHERED (MORTAR-SET) BRICK VENEER SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS IN SECTION 1405.8.1 AND SECTIONS 6.1 AND 6.3 OF ACI 530 / ASCE 5 / TMS 402.
 - 4. REQUIRED ADHESION: ADHESION DEVELOPED BETWEEN ADHERED BRICK VENEER UNITS AND BACKING SHALL HAVE A SHEAR STRENGTH OF AT LEAST 50 POUNDS PER SQUARE INCH (PSI) (0.34 MPa) BASED ON GROSS UNIT SURFACE AREA, OR SHALL BE ADHERED IN COMPLIANCE WITH ARTICLE 3.3.0 OF ACI 530.1 / ASCE 6 / TMS 602.
 - 5. DYNAMICS: DESIGN THE SYSTEM TO ACCOMMODATE BUILDING DYNAMICS WITHOUT DAMAGE TO THE ADHERED BRICK VENEER, SEALING SYSTEMS, ANCHORAGES, FASTENING SYSTEMS, OR SURROUNDING CONSTRUCTION. BUILDING DYNAMICS IS DEFINED AS THE SINGULAR AND COMBINED EFFECT OF WIND AND SEISMIC MOVEMENT, THERMAL MOVEMENT, AND FLOOR OR ROOF DECK DEFLECTION.
 - a. MAXIMUM WIND AND SEISMIC MOVEMENT SHALL BE CALCULATED AS A MAXIMUM STORY DRIFT OF .015 TIMES THE STORY HEIGHT.
 - b. MAXIMUM FLOOR OR ROOF DEFLECTION SHALL BE CALCULATED AS 1/2 INCH.
 - c. THERMAL MOVEMENT SHALL BE CALCULATED FOR A TEMPERATURE RANGE OF FROM -20 DEGREES F, TO +140 DEGREES F.
 - 6. WATER PENETRATION: DESIGN EXTERIOR SYSTEM TO REMAIN WATERIGHT UNDER FULL WIND LOAD CONDITIONS, OR PROVIDE SECONDARY MEANS OF PREVENTING WATER INFILTRATION.

- C. REFERENCES
 - 1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI):
 - a. A1083 - INSTALLATION OF CERAMIC TILE WITH DRY-SET PORTLAND CEMENT MORTAR OR LATEX-PORTLAND CEMENT MORTAR.
 - b. A1084 - INSTALLATION OF GROUT IN TILEWORK.
 - c. A118.4 - LATEX-PORTLAND CEMENT MORTAR.

- D. DEFINITIONS:
 - 1. EXPANSION JOINTS: UNLESS OTHERWISE DETAILED, EXPANSION JOINTS IN BRICK FIELDS ARE SEALANT-FILLED JOINTS TO ACCOMMODATE EXPANSION AND CONTRACTION OF BRICK AND POSSIBLE SUBSTRATE MOVEMENT AT SLAB CONTROL AND CONSTRUCTION JOINTS.

- E. SUBMITTALS
 - 1. MAKE SUBMITTALS IN ACCORDANCE WITH SECTION 013300.
 - 2. PRODUCT DATA: SUBMIT FOR EACH TYPE OF MORTAR, GROUT, ADDITIVE, ACCESSORY, BACKER BOARD, AND MEMBRANE PROPOSED FOR THE WORK.
 - 3. SHOP DRAWINGS: INDICATE GENERAL LAYOUT, SURROUNDING CONSTRUCTION, LOCATION OF EXPANSION JOINTS IN SUBSTRATES AND BRICK FIELDS, EDGE DETAILS, AND SPECIAL CONDITIONS.
 - 4. GROUT SAMPLES: SUBMIT CURED SAMPLES OF EACH GROUT COLOR. FURNISH 2 CURED SAMPLES OF APPROVED GROUT COLORS TO THE EXPANSION JOINT SEALER INSTALLER FOR COLOR MATCHING.

- F. GUARANTEE
 - 1. IN ACCORDANCE WITH SECTION 017700, FURNISH FROM THE MORTAR AND GROUT MANUFACTURER, A FIVE YEAR WRITTEN GUARANTEE, EXECUTED TO THE OWNER, AGAINST FAILURE OF MORTAR AND GROUT MATERIALS.

- G. BRICK MASONRY
 - 1. MANUFACTURER: THE BELDEN BRICK COMPANY (CANTON, OH; 330-451-2031)
 - 2. TYPE TBS; EXTRUDED THIN BRICK; SMOOTH TEXTURE; STANDARD DIMENSIONS.
 - 3. RUBBED RED SERIES.
 - 4. PROVIDE CORNER PIECES, STRETCHER CAPS AND CORNER CAPS AS REQUIRED.

- H. ACCESSORY MATERIALS
 - 1. THINSET MORTAR: "GRAN/RAPID"OR "KERABOND" WITH "UNIVERSAL KERASTAR" BY MAPET CORP., "211 CRETLE FILLER POWDER" WITH 4237 LATEX THIN-

- d. MAKE EXPOSED JOINTS TIGHT, FLUSH, AND HARBINE.
 - e. FILL IMPERFECTIONS WITH PLASTIC AUTO BODY FILLER AS NECESSARY FOR A SMOOTH EVEN FINISH.
 - f. WELDS SHALL BE CONTINUOUS.
- G. FABRICATION OF ELEMENTS TO RECEIVE GALVANIZED COATINGS:
1. FABRICATE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ASTM A143, A384, AND A385.
 2. REMOVE WELDING SLAG AND BURRS PRIOR TO GALVANIZING.
 3. AVOID FABRICATION TECHNIQUES WHICH COULD CAUSE DISTORTION OR EMBRITTLMENT OF THE STEEL.
- H. SPECIAL FABRICATION REQUIREMENTS:
1. BODER DESIGNED RAILINGS: COORDINATE WITH OTHER FABRICATORS AND INSTALLERS AS NECESSARY TO ACCOMMODATE INSTALLATION OF RAILING SYSTEMS.
- I. SHOP FINISHES:
1. HOT DIP GALVANIZING:
 - a. STEEL FABRICATIONS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123. BOLTS, NUTS, WASHERS, AND OTHER HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH A153.
 - b. SURFACE FINISH: THE GALVANIZED COATINGS SHALL BE CONTINUOUS, FIRMLY ADHERED, SMOOTH, AND FREE FROM DEFECTS.
 - c. LOCATIONS: PROVIDE HOT DIP GALVANIZING FOR ALL METAL FABRICATIONS IN EXTERIOR OR MOST CONDITIONS, UNLESS OTHERWISE INDICATED. UNLESS OTHERWISE APPROVED BY THE ARCHITECT, PLUG AND COLD GALVANIZE VENTILATION AND LISTING HOLES WHICH WILL BE EXPOSED TO MOISTURE PENETRATION IN THE FINISHED WORK.
 2. SHOP FINISHING OF NON-STAINLESS STEEL (CLEAR-COATED HOT-ROLLED STEEL):
 - a. USE HANDLING METHODS TO PRESERVE HOT ROLLED MILL SCALE TEXTURE AND BLUE-GRAY PATINA.
 - b. DO NOT CUT STEEL WITH A TORCH; CUT STEEL WITH A BLADE.
 - c. IF THE METAL IS SCRATCHED OR HAS A POOR PATINA DO THE FOLLOWING:
 - 1) HEAT METAL TO 150° F TO ELIMINATE ANY WATER.
 - 2) ALLOW TO COOL. REMOVE ANY SURFACE RUST WITH A SCOTCH BRITE PAD OR STEEL WOOL.
 - 3) APPLY TWO COATS OF CLEAR URETHANE.
 3. SHOP PRIMING OF PAINTED STEEL COMPONENTS:
 - a. PREPARE SURFACES IN ACCORDANCE WITH THE FINISH COAT MANUFACTURER'S RECOMMENDATIONS, AND AS SPECIFIED BELOW.
 - b. SOLVENT CLEAN IN ACCORDANCE WITH SSPC SP-1; ABRASE GALVANIZED SURFACES WITH A METAL PREPARATION PAD.
 - c. SPRAY APPLY PRIMERS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. APPLY PRIMERS TO RECEIVE FINE APPLICATION OF FINISH COATS AS SPECIFIED IN SECTION 090000.
 - d. EXCEPT FOR SURFACES INDICATED TO BE FIELD WELDED, COAT ALL SURFACES OF FABRICATION, WHETHER OR NOT EXPOSED TO VIEW IN INSTALLED POSITION.
 - e. MAINTAIN AT LEAST ONE COAT OF PRIMER AT ALL TIMES DURING INSTALLATION. IMMEDIATELY PATCH DAMAGED COATINGS.
 - f. FINISH COAT SHALL BE FREE OF DIRT, FLOW LINES, SLAG, BUSTERS, PINHOLES, AND OTHER SURFACE IMPERFECTIONS.
 - g. LOCATIONS: PROVIDE AT ALL EXTERIOR METAL FABRICATION EXPOSED TO VIEW, AND OTHER FABRICATIONS AS SCHEDULED. DO NOT PRIME SURFACES TO BE FIELD WELDED.

DIVISION 6 – WOOD AND PLASTIC

08100 ROUGH CARPENTRY

- A. SUMMARY:
1. BLOCKING.
 2. PLYWOOD TERMINAL BACKBOARDS.
- B. QUALITY ASSURANCE:
1. REGULATORY REQUIREMENTS: WORK SHALL CONFORM TO THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.
- C. DIMENSION LUMBER:
1. LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH PS 20, AND SHALL BE STAMPED AND GRADED IN ACCORDANCE WITH WFWA, WCLB, NLA, OR SPIB GRADING RULES.
 2. MOISTURE CONTENT: KILN DRIED TO 19% MAXIMUM MOISTURE CONTENT, EXCEPT FOR MATERIAL WHOSE LEAST DIMENSION IS 4 INCHES THICK OR GREATER.
 3. SPECIES: HEM-FIR, SPRUCE-PINE-FIR (SPF), OR DOUGLAS FIR LARCH, UNLESS INDICATED OR SPECIFIED OTHERWISE.
- D. ARCHITECTURAL LUMBER GRADES: UNEXPOSED NON-STRUCTURAL WOOD FRAMING AND BLOCKING INDICATED ON THE ARCHITECTURAL DRAWINGS SHALL BE GRADED AS FOLLOWS:
- a. BLOCKING AND NAILERS: "UTILITY – LIGHT FRAMING," OR BETTER.
- E. PANEL MATERIALS:
1. PLYWOOD: APA RATED SHEATHING; CD GRADE; EXTERIOR; PLYWOOD THICKNESSES AS INDICATED.
 2. TERMINAL BACKBOARDS: APA AC GRADE EXTERIOR; FIRE RETARDANT TREATED.
- F. ACCESSORIES:
1. FASTENERS:
 - a. HOT-DIPPED GALVANIZED STEEL FOR EXTERIOR, HIGH HUMIDITY, AND TREATED WOOD LOCATIONS.
- G. WOOD TREATMENT:
1. FIRE RETARDANT TREATMENT:
 - a. FIRE RETARDANT TREAT ALL INTERIOR CONCEALED LUMBER AND PLYWOOD, AND OTHER WOOD AS INDICATED OR SPECIFIED.
 - b. PRESSURE TREAT LUMBER IN ACCORDANCE WITH AMPA C-20 AND PLYWOOD IN ACCORDANCE WITH AMPA C-27.
 - c. ALL FIRE RETARDANT TREATED WOOD SHALL BEAR A LR, TR, or L LABEL, OR A LABEL FROM AN APPROVED INSPECTION AGENCY CERTIFYING THAT THE MATERIAL HAS A FLAME SPREAD RATING NO HIGHER THAN 25 WITH NO EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION WHEN TESTED IN ACCORDANCE WITH ASTM E84.
 - d. SITE TREAT SWAIN ENDS WITH APPROVED FIRE RETARDANT TREATMENT.
 - e. APPROVED PRODUCTS:
 - 1) INTERIOR FIRE-PROTECTING PRODUCTS: CLEAR FINISH PRODUCT, HICKSON CORPORATION "DORON", HOOPER TREATED WOOD PRODUCTS "THRO-GUARD," TOMOSE WOOD PRESERVING CO. OF AMERICA, INC. "FLAME PROOF LINC," OR APPROVED.
 2. BLOCKING: INSTALL WOOD BLOCKING TO RECEIVE MECHANICAL FASTENERS FOR SUPPORT OF PLUMBING AND ELECTRICAL FIXTURES AND EQUIPMENT, CABINETS, DOOR STOP PLATES, WOOD BASE, WAINSCOTS, COAT HOVKS, TOILET AND BATH ACCESSORIES, KITCHEN EQUIPMENT, AND ALL OTHER WALL AND CEILING MOUNTED COMPONENTS.
 3. PLYWOOD TERMINAL BACKBOARDS:
 1. PROVIDE A FIRE RETARDANT TREATED PLYWOOD TERMINAL BACKBOARD FOR TELEPHONE SYSTEMS WHERE INDICATED ON THE DRAWINGS.
 2. MECHANICALLY APPLY DIRECTLY OVER OPSUM BACKING BOARD.

06400 ARCHITECTURAL WOODWORK

- A. SUMMARY:
1. WOOD STANDING AND RUNNING TRIM.
 2. WOOD SCREEN WALL.
 3. WOOD SLAT WALL AND CEILING PANELS.
 4. CASEWORK.
 5. CUSTOM SEAT CUSHIONS.
 6. SHOP FINISHING.
- B. REFERENCED STANDARDS:
1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
 - a. C1036 STANDARD SPECIFICATION FOR FLAT GLASS
 - b. E84 TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS
 2. AMERICAN PLYWOOD ASSOCIATION (APA)
 - a. ARCHITECTURAL WOODWORK QUALITY STANDARDS, GUIDE SPECIFICATIONS AND QUALITY CERTIFICATION PROGRAM (CURRENT EDITION).
 3. WEST COAST LUMBER INSPECTION BUREAU (WCLB)
 - a. STANDARD GRADING RULES NO. 16
 5. U.S. PRODUCT STANDARDS (FPS)
 - a. PS 1 PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD
- C. SUBMITTALS:
1. SHOP DRAWINGS: INDICATE MATERIALS, COMPONENTS, PROFILES AND CONFIGURATIONS, DIMENSIONS, FASTENING METHODS, JOINTING DETAILS, COLORS AND FINISHES, AND ACCESSORIES. DETAILS SHALL BE AT A MINIMUM SCALE OF 1-1/2 INCH PER FOOT.
 2. SAMPLES:
 - a. SOLID WOOD WITH TRANSPARENT FINISH: SUBMIT A MINIMUM OF 3 – 12 INCH LONG SAMPLES REPRESENTATIVE OF THE MAXIMUM RANGE OF COLOR AND GRAINING TO BE EXPECTED FOR EACH SPECIES, DOT, AND FINISH COMBINATION SPECIFIED. INCLUDE SAMPLES OF TRANSPARENT FINISH WITH PUTTY FILLED HOLES AND SPECIFIED FILL APPLIED TOP COAT.
 - b. GRADE FINISH WOOD: SUBMIT A MINIMUM OF 3 – 12 INCH LONG SAMPLES REPRESENTATIVE OF THE MAXIMUM RANGE OF GRAINING AND SURFACE IMPERFECTIONS TO BE EXPECTED.
 - c. PLASTIC LAMINATE: SUBMIT A MINIMUM 8 X 11 SAMPLE OF EACH COLOR AND PATTERN SPECIFIED.
 - d. PRODUCT LITERATURE: SUBMIT LITERATURE FOR A SAMPLE OF EACH HARDWARE COMPONENT PROPOSED.
 - e. CERTIFICATION: SUBMIT CERTIFICATION THAT THE FIRE RETARDANT TREATMENTS USED COMPLY WITH THE SPECIFIED REQUIREMENTS.
 3. QUALITY ASSURANCE
 1. FABRICATOR: A MINIMUM OF 5 YEARS EXPERIENCE IN THE FABRICATION OF CUSTOM ARCHITECTURAL WOODWORK OF THE TYPE SPECIFIED.
 2. ALL ARCHITECTURAL WOODWORK SHALL BE UNDER THE RESPONSIBILITY OF A SINGLE FABRICATOR.
 3. QUALIFICATIONS OF INSTALLERS: USE ONLY JOURNEYPMAN FINISH CARPENTERS WHO ARE THOROUGHLY TRAINED AND SKILLED IN THE WORK, AND WHO ARE COMPLETELY FAMILIAR WITH THE MATERIALS AND QUALITY STANDARDS SPECIFIED. NO ALLOWANCE WILL BE MADE FOR LACK OF SKILL ON THE PART OF WORKMEN.
 4. CONFORM TO ANI CUSTOM GRADE STANDARDS UNLESS SPECIFIED OR INDICATED OTHERWISE.
 5. MOCK-UPS: FABRICATE ONE CASEWORK COMPONENT TO RECEIVE TRANSPARENT FINISH AND ONE COMPONENT TO RECEIVE OPAQUE FINISH, COMPLETE WITH HARDWARE AND ALL ELECTRICAL AND MECHANICAL COMPONENTS AND FINISHED AS SPECIFIED. COMPONENTS SHALL BE SELECTED BY ARCHITECT. COMPONENTS SHALL BE USED TO ESTABLISH LEVEL OF QUALITY FOR THE WORK OF THIS SECTION. COMPONENTS APPROVED BY ARCHITECT MAY BE INCORPORATED INTO THE WORK.
 4. MATERIALS:
 1. LUMBER:
 - a. MOISTURE CONTENT: OPTIMUM MOISTURE CONTENT PER ANI RECOMMENDATIONS.
 - b. TRANSPARENT FINISH LUMBER: TYPES AS SCHEDULED ON THE DRAWINGS.
 - c. CONCEALED FRAMING LUMBER: ANI GRADE 1 PINE, FIR, HEMLOCK, OR OTHER SPECIES AS APPROVED.
 2. PLYWOOD: APA RATED IN ACCORDANCE WITH PS 1; 3/4 INCH THICK AC EXTERIOR GRADE UNLESS INDICATED OTHERWISE; TOUCH Sanded WHERE PLASTIC LAMINATE VENEERS ARE TO BE APPLIED.
 3. HARDWOOD PLYWOOD: STATES INDUSTRIES (EUGENE, OR 800.843.2753) "APPLE PLY," GRADE A, 1/16 INCH ALDER VENEER GRADE, (9 PLY FOR 1/2 INCH THICKNESS, 13 PLY FOR 3/4 INCH THICKNESS), BRICH VENEER FACES, PLAN SLEAVED.
 4. PARTICLE BOARD: ANSI A208.1; GRADE M-2 WHERE INDICATED OR SPECIFIED; FIRE RETARDANT TREATED TO A FLAME SPREAD OF 25 WHEN TESTED IN ACCORDANCE WITH ASTM E84. PROVIDE QUALITY ASSURANCE STAMP OR MANUFACTURER'S CERTIFICATIONS AS REQUIRED BY LOCAL JURISDICTIONAL CODE AUTHORITIES.
 5. MEDIUM DENSITY FIBERBOARD (MDF): ANSI A208.2 CLASS MD; EXTERIOR GRADE; FORMALDEHYDE FREE.
 6. PRE-FINISHED BOARD: LOW PRESSURE MELAMINE OVER PARTICLE BOARD, MDF, OR HARDBOARD CORE; FORMALDEHYDE FREE; COLORS AS SELECTED FROM MANUFACTURER'S STANDARD.
- D. FABRICATION:
1. JOINTING: MAKE ALL JOINTS TO CONCEAL SHRINKAGE WATER ALL EXTERIOR CORNERS; COPE ALL INTERIOR CORNERS, MITER OR SCARF ALL END-TO-END JOINTS; INSTALL ALL TRIM PIECES AS LONG AS POSSIBLE; JOINTING ONLY WHERE SOLID SUPPORT IS OBTAINED; MAKE NO JOINTS CLOSER THAN 4 FEET TO CORNERS.
 2. LENGTHS OF MATERIAL: USE RANDOM LENGTHS AND SHOW TYPICAL JOINT LOCATIONS ON SHOP DRAWINGS. THE MINIMUM LENGTH SHALL BE 8 FEET, EXCEPT WHERE SHORT LENGTHS ARE REQUIRED BY INSTALLATION CONDITIONS.
 3. FASTENING:
 - a. INSTALL ALL ITEMS STRAIGHT, TRUE, LEVEL, PLUMB, AND FIRMLY ANCHORED IN PLACE, WHERE BLOCKING OR BACKING IS REQUIRED, COORDINATE AS NECESSARY WITH OTHER TRADES TO ENSURE PLACEMENT OF ALL REQUIRED BACKING AND BLOCKING IN A TIMELY MANNER.
 - b. UNLESS OTHERWISE OTHERWISE, USE CONCEALED FASTENING METHODS.
 - c. WHERE EXPOSED FASTENERS ARE APPROVED, FASTEN TRIM WITH FINISH NAILS OR SCREWS OF PROPER DIMENSION TO HOLD THE MEMBER FIRMLY IN PLACE WITHOUT SPLITTING THE WOOD. ON EXPOSED FINISH WORK, SET ALL NAILS AND SCREWS AND PUTTY. ALSO EXPOSED FASTENERS FOR UNIFORM PATTERNS: RANDOM OR "SHOTGUN" PATTERNS WILL NOT BE ACCEPTED.
 4. SELECT AND ARRANGE STANDING AND RUNNING TRIM SO THAT ABUTTING MEMBERS HAVE A SIMILAR GRAN AND COLOR MATCH TO THE GREATEST EXTENT POSSIBLE.
- E. STANDING AND RUNNING TRIM INSTALLATION:
1. JOINTING: MAKE ALL JOINTS TO CONCEAL SHRINKAGE WATER ALL EXTERIOR CORNERS; COPE ALL INTERIOR CORNERS, MITER OR SCARF ALL END-TO-END JOINTS; INSTALL ALL TRIM PIECES AS LONG AS POSSIBLE; JOINTING ONLY WHERE SOLID SUPPORT IS OBTAINED; MAKE NO JOINTS CLOSER THAN 4 FEET TO CORNERS.
 2. LENGTHS OF MATERIAL: USE RANDOM LENGTHS AND SHOW TYPICAL JOINT LOCATIONS ON SHOP DRAWINGS. THE MINIMUM LENGTH SHALL BE 8 FEET, EXCEPT WHERE SHORT LENGTHS ARE REQUIRED BY INSTALLATION CONDITIONS.
 3. FASTENING:
 - a. INSTALL ALL ITEMS STRAIGHT, TRUE, LEVEL, PLUMB, AND FIRMLY ANCHORED IN PLACE, WHERE BLOCKING OR BACKING IS REQUIRED, COORDINATE AS NECESSARY WITH OTHER TRADES TO ENSURE PLACEMENT OF ALL REQUIRED BACKING AND BLOCKING IN A TIMELY MANNER.
 - b. UNLESS OTHERWISE OTHERWISE, USE CONCEALED FASTENING METHODS.
 - c. WHERE EXPOSED FASTENERS ARE APPROVED, FASTEN TRIM WITH FINISH NAILS OR SCREWS OF PROPER DIMENSION TO HOLD THE MEMBER FIRMLY IN PLACE WITHOUT SPLITTING THE WOOD. ON EXPOSED FINISH WORK, SET ALL NAILS AND SCREWS AND PUTTY. ALSO EXPOSED FASTENERS FOR UNIFORM PATTERNS: RANDOM OR "SHOTGUN" PATTERNS WILL NOT BE ACCEPTED.
 4. SELECT AND ARRANGE STANDING AND RUNNING TRIM SO THAT ABUTTING MEMBERS HAVE A SIMILAR GRAN AND COLOR MATCH TO THE GREATEST EXTENT POSSIBLE.

- MANUFACTURER'S STANDARD.
7. PLASTIC LAMINATE:
 - a. BRANDS AND COLORS AS SCHEDULED ON DRAWINGS.
 - b. EXPOSED: NEMA LD-3; GENERAL AND VERTICAL GRADE.
 - c. BACKING SHEETS: NEMA LD-3; BACKING GRADE; UNDECORATED.
 8. SIMULATED STONE:
 - a. MANUFACTURER: "GORENITE" BY GSS, LLC (METUCHEN, NJ, 732-549-2866).
 - b. PATTERN/COLOR AS SCHEDULED ON THE DRAWINGS.
 - c. CUSTOM 3 CM THICKNESS.
 - F. ACCESSORY MATERIALS:
 1. CABINET HARDWARE:
 - a. PULLS: 4 INCH WIRE PULLS; BRUSHED CHROME FINISH.
 - b. DRAWER SLIDES: DRAWER SLIDES: FULL EXTENSION BALL BEARING; CLEAR ZINC FINISH; RAIL MOUNT; ACCURIDE, OR APPROVED; LOAD RATING AS REQUIRED FOR THE APPLICATION.
 - 1) LIGHT DUTY RATING (DRAWERS 12 INCHES WIDE OR LESS): ACCURIDE 2632; 65 LB BFMA LOAD RATING
 - 2) MEDIUM DUTY RATING (DRAWERS 32 INCHES WIDE OR LESS): ACCURIDE 7432; 100 LB BFMA LOAD RATING.
 - 3) HEAVY DUTY RATING (DRAWERS 42 INCHES WIDE OR LESS): ACCURIDE 3640; 200 LB BFMA LOAD RATING.
 - c. DRAWER LOCKS: CORBIN OR APPROVED; CAM LOCKS TO SUIT CONDITION; KEYS ALIKE AS DIRECTED, AND MASTERKEYED; FURNISH TWO KEYS FOR KEYS ALIKE GROUP, AND FOUR MASTERKEYS; FINISH TO MATCH PULLS.
 - d. CONCEALED HINGES: EUROSPAN STYLE CONCEALED; SELF-CLOSING; 125 DEGREE OF OPENING; BLUM, GRASS OR HAFELE.
 - e. CATCH: YES 327 492 MAGNETIC CATCH.
 - f. CABINET SELF STANDARDS AND BRACKETS: ZINC PLATED; KNMPE AND VOGT NO. 255 AND 256
 - g. LEVELERS: CAPTOL #1886, OR EQUAL.
 - h. WIRING CROMMETS: DOUG WOODKETT AND COMPANY, INC. "TQ" SERIES, OR APPROVED; SIZE TO MATCH APPLICATION; COLOR AS SELECTED BY ARCHITECT
 2. WALL SHELF HARDWARE:
 - a. BRACKETS: KNMPE & VOGT NO. 185 ANCHORHME FINISH; LENGTH AS APPROPRIATE FOR SHELVING INDICATED.
 - b. STANDARDS: KNMPE & VOGT #85 ANCHORHME FINISH.
 3. CONTACT BOND ADHESIVE: WATER BASED TYPE.
 4. BANQUETTE CUSHIONS:
 - a. SEAT CUSHION:
 - 1) 2.7# DENSITY FOAM WITH A COMPRESSION RATING OF 40
 - 2) WMP-FOM FULLY IN 1/2 OZ. FIRE RETARDANT TREATED DACKRON.
 - b. FABRIC: AS LISTED IN THE FINISH LEGEND.
 5. CUSHION FABRICATION:
 - 1) COVER FOR TIGHT AND SMOOTH APPEARANCE.
 - 2) FABRICATE FOR TIGHT FIT BETWEEN CUSHIONS AND ADJACENT CONSTRUCTION.
 - 3) PROVIDE BOXED EDGE WITH LUGGAGE STITCH SEAMS.
 - 4) PROVIDE HEAT RESISTANT ZIPPER ALONG LENGTH OF CUSHION AT THE BACKSIDE.
 5. CUSHIONS SHOULD BE REMOVABLE FOR CLEANING.
 6. ATTACH LOOP PORTIONS OF WOVEN STYLE NYLON HOOK AND LOOP (VELCRO) FASTENER SECTION TO ALIGN WITH HOOK SECTIONS MOUNTED ON THE SUBSTRATE.

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

01510 MAINTENANCE OF MEMBRANE ROOFING

- A. ROOFING MATERIALS: UNLESS APPROVED OTHERWISE, NEW ROOFING MATERIALS SHALL MATCH THE EXISTING MATERIALS.
- B. FLASHING MATERIALS:
1. GALVANIZED STEEL SHEET: ASTM A525; 60% GALVANIZED FINISH, EXCEPT PROVIDE 60% WHERE SPECIAL FINISH IS USED.
 2. IN ORDER TO MATCH EXISTING COLORS, CONTRACTOR MAY PROVIDE EITHER FACTORY PREFINISHED GALVANIZED STEEL, OR SPECIAL FINISH ON GALVANIZED STEEL.
- C. FLASHINGS:
- a. FACTORY PREFINISHED: FACTORY PREFINISHED WITH 70% RESIN KYNAR 500 OR HYLAR 5000 FLUOROCARBON COATING; COLOR AS SELECTED BY THE ARCHITECT TO MATCH EXISTING FLASHING OR TRIM.
 - b. SPECIAL FINISH MATERIALS:
 - 1) PRIMER: TNEDEC SERIES N27 "TYPODY," CARBOLINE 890, OR APPROVED.
 - 2) URETHANE FINISH COATS: TNEDEC SERIES 75 "INDURA-SHIELD" ACRYLIC POLYURETHANE ENAMEL, CARBOLINE "L33HB," OR APPROVED; SEMI-GLOSS OR SATIN SHEEN; CUSTOM COLORS AS SELECTED BY THE ARCHITECT TO MATCH THE EXISTING FLASHING OR TRIM.
 3. STAINLESS STEEL SHEET: ASTM A167; TYPE 302 OR 304
 4. ACCESSORIES:
 - a. FASTENERS:
 1. PROVIDE SOFT NEOPRENE WASHERS AT EXPOSED FASTENERS.
 2. GALVANIZED STEEL SHEET: USE GALVANIZED STEEL OR STAINLESS STEEL.
 3. STAINLESS STEEL SHEET: STAINLESS STEEL.
 4. USE SCREWS WHEN FASTENING INTO WOOD OR SHEET METAL.
 5. USE EXPANSION ANCHORS OR DRIVE PINS WHEN FASTENING INTO CONCRETE OR MASONRY.
 - b. BUTYL RUBBER SEALANT: ONE OF THE FOLLOWING:
 - 1) CURTAIN WALL SEALANT, BY TREMO;.
 - 2) ADCEAL B7-400, BY ADCC PRODUCTS, INC.
 - c. FLEXIBLE FLASHING: W.R. GRACE "PEEM-A-BARRIER" WALL FLASHING, OR "ICE AND WATER SHIELD," OR APPROVED.
 4. FLEXIBLE BOOT PIPE FLASHING: PORTAFIX PLUS (708/766-5240; 800/774-5240) "ALUM-FLASH" WITH EPDM BOOTS, OR APPROVED; SIZED TO MATCH PIPE DIAMETER; SPLIT TYPE WITH SEALING HARDWARE WHERE NECESSARY FOR INSULATION AT PENETRATING ITEMS WHICH CANNOT BE DISCONNECTED FOR TOP ACCESS. FURNISH STAINLESS STEEL DRAW BANDS, ADAPTERS, CONNECTION HARDWARE, AND SEALANTS AS NECESSARY FOR A COMPLETE AND WEATHER TIGHT INSTALLATION.

01520 STANDING AND RUNNING TRIM FABRICATION:

1. SHOP CUT AND MILL ALL LUMBER TO THE SHAPES INDICATED.
 2. SHOP FIT AND ASSEMBLE TO THE GREATEST EXTENT POSSIBLE.
 3. MILL AND ASSEMBLE BUILT-UP SECTIONS. ALL GUE LINES SHALL BE FREE OF SQUEEZE-OUT WHERE TRANSPARENT FINISHES ARE TO BE APPLIED.
 4. TOLERANCES FOR OVERALL ASSEMBLY DIMENSIONS SHALL BE WITHIN 1/32 OF AN INCH.
 5. FABRICATE FRAMES FROM SINGLE LENGTH PIECES, WITHOUT JOINTS, FOR EACH STRAIGHT LENGTH.
 6. FABRICATE FROM EACH SECTION FROM SOLID STOCK, EXCEPT COMPOSITE CONSTRUCTION CONVENING OF FABRICATOR SELECTED SOLID WOOD CLAD WITH SPECIFIED TRANSPARENT FINISH VENEER MAY BE USED. EXPOSED EDGES SHALL CONIST OF MINIMUM 1/8 INCH THICK SOLID WOOD TO MATCH THE VENEER.
 7. FABRICATE TO RECEIVE GLAZING WITH PROPER CLEARANCES FOR EXPANSION AND CONTRACTION.
 8. BACK OR KEY CUT ALL TRIM GREATER THAN 2 INCH IN WIDTH, EXCEPT TERMINATE BEFORE EXPOSED ENDS.
- H. CASEWORK FABRICATION:
1. GENERAL FABRICATION REQUIREMENTS:
 - a. FABRICATE TO THE CONFIGURATIONS INDICATED, UNLESS APPROVED OTHERWISE ON THE SHOP DRAWINGS.
 - b. PROVIDE OPENINGS IN CASEWORK FOR THE INCORPORATION OF ALL ELECTRICAL AND MECHANICAL COMPONENTS. OPENINGS FOR ALL PLUMBING EQUIPMENT SHALL BE CUT FROM TEMPLATES OBTAINED FROM THE PLUMBING EQUIPMENT INSTALLER.
 - c. PROVIDE CONCEALED ACCESS TO CASEWORK ELECTRICAL FIXTURES AND WIRING.
 - d. UNLESS INDICATED OR APPROVED OTHERWISE, PROVIDE ADJUSTABLE BASE TO PROVIDE LEVEL INSTALLATION WHICH ACCOMMODATES VARIATIONS IN FLOOR LEVELNESS.
 - e. SHOP ASSEMBLE CASEWORK TO THE GREATEST PRACTICAL EXTENT
 - f. ADJUSTABLE SHELVES: ALL CASEWORK SHELVES SHALL BE ADJUSTABLE, UNLESS OTHERWISE NOTED. PROVISIONS FOR SHELF ADJUSTMENT SHALL BE BY DRILLINGS AT 2 INCHES ON CENTER IN THE CABINET BODY FOR THE PLACEMENT OF SELF SUPPORT BRACKETS. PROVIDE 4 SUPPORTS FOR EACH SHELF. DRILLINGS SHALL BE SPACED TO MATCH FACE COLOR.
 - g. PROVIDE ALL HARDWARE, FASTENERS, AND EXPOSED TRIM.
 2. PLASTIC LAMINATE CASEWORK CONSTRUCTION:
 - a. FABRICATE CASEWORK IN ACCORDANCE WITH ANI STANDARD SECTION 400; CUSTOM GRADE.
 - b. DESIGN: ANI FLUSH OVERLAY DESIGN, UNLESS INDICATED OTHERWISE. JOINT BETWEEN EXPOSED DOORS, DRAWER FACES, AND COUNTERTOP EDGES SHALL BE 1/8 INCH PLUS OR MINUS 1/16.
 - c. EXPOSED SURFACES: PLASTIC LAMINATE CLAD WITH SELF EDGING, UNLESS OTHERWISE INDICATED; PROVIDE HARDWOOD TRIM AT LOCATIONS INDICATED.
 - d. "INSIDE" EXPOSED SURFACES OF SHELVING UNITS AND CABINETS WITHOUT DOORS: PLASTIC LAMINATE FINISHED BOARD, WITH EXPOSED EDGES Banded WITH PLASTIC LAMINATE SELF EDGING FINISH COAT.
 - e. SEMI-EXPOSED SURFACES: PREFINISHED BOARD, UNLESS INDICATED OTHERWISE.
 - f. PROVIDE VERTICAL GRADE PLASTIC LAMINATE, EXCEPT USE GENERAL PURPOSE GRADE AT COUNTERTOPS.
 - g. BACKS OF DOORS AND DRAWERS: PREFINISHED BOARD.
 - h. PARTICLE BOARD SHALL BE MINIMUM 3/4" THICK UNLESS INDICATED OTHERWISE. SHELVES SHALL BE 1" THICK, MINIMUM.
 3. PLANK PANELING: CEDAR PLANK; STRAIGHT EDGE; ANI "PREMIUM" GRADE; 5-1/2 INCH WIDE BY 1-1/4 INCH THICK.
 4. FLAT PANEL FABRICATION
 - a. FABRICATE PANELING TO ANI "PREMIUM" GRADE STANDARDS.
 - b. FABRICATE PANELS WITH HARDWOOD PLYWOOD CORE UNLESS INDICATED OTHERWISE.
 - c. PROVIDE SMOOTH EDGES WITH NO EDGE TRIM.
 - d. PANELS SHALL HAVE WOOD VENEER BALANCE SHEETS WITH SEAL COAT ON THE BACK OF EACH PANEL.
 - e. FABRICATE PANELS WITH JOINTS ACCURATELY MATCHED, TIGHTLY FITTED.
 5. TRANSPARENT FINISH WOOD CASEWORK CONSTRUCTION:
 - a. FABRICATE TRANSPARENT FINISH WOOD CASEWORK IN ACCORDANCE WITH ANI STANDARD SECTION 400; "PREMIUM" GRADE.
 - b. FABRICATE WOOD CASEWORK WITH WOOD VENEER OVER MEDIUM DENSITY PARTICLE BOARD. PROVIDE SOLID WOOD EDGING AT VENEER PANELS.
 - c. VENEERS SHALL BE AS FOLLOWS:
 - 1) FABRICATE EACH PANEL FROM SEQUENTIAL PLUTES.
 - 2) BOOK MATCH VENEERS.
 - 3) PROVIDE NO VENEER END JOINTS WITHIN EACH PANEL.
 - 4) PROVIDE GRAN DIRECTION AS INDICATED.
 - d. WHERE VENEERS ARE INDICATED TO BE SINGLE PIECE OR SLIP MATCHED LEAVES FOR EACH PANEL, ADJOINING PANELS SHALL BE END MATCHED AND/OR SLIP MATCHED AS APPROPRIATE.
 6. PLASTIC LAMINATE COUNTERTOPS:
 - a. FABRICATE COUNTERTOPS FROM PARTICLE BOARD AND GENERAL PURPOSE GRADE PLASTIC LAMINATE IN THE SHAPES INDICATED.
 - b. WHERE COUNTERTOPS ARE INDICATED WITH SINKS, USE EXTERIOR GRADE PLYWOOD IN LIEU OF PARTICLE BOARD.
 7. STAINLESS STEEL COUNTERTOPS AND BACKSPLASHES:
 - a. FABRICATE FROM MINIMUM 16 GAGE TYPE 304 OR 316 STAINLESS STEEL TO THE CONFIGURATIONS INDICATED.
 - b. FABRICATE EACH COUNTERTOP IN ONE PIECE TO THE GREATEST EXTENT POSSIBLE.
 - c. PROVIDE WELDED SEAMLESS CORNERS AND JOINTS; GRIND ALL WELDS SMOOTH TO MATCH ADJACENT SURFACES.
 - d. PROVIDE TURNED DOWN FRONTS AND EXPOSED SIDES. INTERNAL BACK SPLASHES WITH 3/8 INCH RADIUS.
 - e. FABRICATE COUNTERTOPS WITH THREE FORMED STAINLESS STEEL CHANNELS WELDED UNDERNEATH FOR SUPPORT.
 - f. SPRAY ON SOUND DEADENING TO THE UNDERSIDE OF THE COUNTERTOPS.
 8. FINISH: #4 FINISH.

01530 HARDWARE:

- a. UNLESS OTHERWISE SHOWN OR SPECIFIED, ALL DRAWERS SHALL BE EQUIPPED WITH STANDARD FULL EXTENSION SLIDES.
 - b. INSTALL HARDWARE STRAIGHT AND TRUE AND IN PERFECT ALIGNMENT HORIZONTALLY AND VERTICALLY WITH ADJACENT CASEWORK AND HARDWARE.
 - c. CAREFULLY FIT AND SECURELY ATTACH CABINET HARDWARE IN ACCORDANCE WITH MANUFACTURERS' PRINTED INSTRUCTIONS, AND EXERCISE CAUTION NOT TO MAR OR INJURE FINISH SURFACES.
- I. SHOP FINISHING:
1. SHOP FINISH ALL ARCHITECTURAL WOODWORK WOOD SURFACES.
 2. SAND ALL EXPOSED AND SEMI-EXPOSED WOOD SURFACES SMOOTH, ALWAYS SANDING IN THE DIRECTION OF THE WOOD GRAIN.
 3. SAND ALL EXPOSED TRANSPARENT FINISH WOOD SURFACES TO ANI "PREMIUM " GRADE STANDARDS. SAND ALL SEMI-EXPOSED TRANSPARENT OR OPAQUE FINISH WOOD SURFACES TO ANI "CUSTOM" GRADE STANDARDS.
 4. FILL ALL IMPRESSIONS AND IMPERFECTIONS WITH NON-SHINK COLOR MATCHED PUTTY, EXCEPT IMPERFECTIONS SHALL NOT EXCEED ANI PREMIUM GRADE STANDARDS.
 5. TRANSPARENT FINISH COATING: SPRAY APPLY IN ACCORDANCE WITH ANI FINISHING SYSTEM PREMIUM GRADE (WATERBORNE CONVERSION WARNIS); SATIN SHEEN.
- J. STANDING AND RUNNING TRIM INSTALLATION:
1. JOINTING: MAKE ALL JOINTS TO CONCEAL SHRINKAGE WATER ALL EXTERIOR CORNERS; COPE ALL INTERIOR CORNERS, MITER OR SCARF ALL END-TO-END JOINTS; INSTALL ALL TRIM PIECES AS LONG AS POSSIBLE; JOINTING ONLY WHERE SOLID SUPPORT IS OBTAINED; MAKE NO JOINTS CLOSER THAN 4 FEET TO CORNERS.
 2. LENGTHS OF MATERIAL: USE RANDOM LENGTHS AND SHOW TYPICAL JOINT LOCATIONS ON SHOP DRAWINGS. THE MINIMUM LENGTH SHALL BE 8 FEET, EXCEPT WHERE SHORT LENGTHS ARE REQUIRED BY INSTALLATION CONDITIONS.
 3. FASTENING:
 - a. INSTALL ALL ITEMS STRAIGHT, TRUE, LEVEL, PLUMB, AND FIRMLY ANCHORED IN PLACE, WHERE BLOCKING OR BACKING IS REQUIRED, COORDINATE AS NECESSARY WITH OTHER TRADES TO ENSURE PLACEMENT OF ALL REQUIRED BACKING AND BLOCKING IN A TIMELY MANNER.
 - b. UNLESS OTHERWISE OTHERWISE, USE CONCEALED FASTENING METHODS.
 - c. WHERE EXPOSED FASTENERS ARE APPROVED, FASTEN TRIM WITH FINISH NAILS OR SCREWS OF PROPER DIMENSION TO HOLD THE MEMBER FIRMLY IN PLACE WITHOUT SPLITTING THE WOOD. ON EXPOSED FINISH WORK, SET ALL NAILS AND SCREWS AND PUTTY. ALSO EXPOSED FASTENERS FOR UNIFORM PATTERNS: RANDOM OR "SHOTGUN" PATTERNS WILL NOT BE ACCEPTED.
 4. SELECT AND ARRANGE STANDING AND RUNNING TRIM SO THAT ABUTTING MEMBERS HAVE A SIMILAR GRAN AND COLOR MATCH TO THE GREATEST EXTENT POSSIBLE.

- K. CASEWORK INSTALLATION:
1. COORDINATE CASEWORK INSTALLATION WITH WORK OF OTHER TRADES FOR FINAL ELECTRICAL AND MECHANICAL CONNECTIONS.
 2. INSTALL ALL CASEWORK ACCURATELY, SCRIBED PLUMB, SQUARE, AND LEVEL, AND PERMANENTLY SECURED IN PRECISE POSITION AS INDICATED ON THE DRAWINGS.
 3. THE CASEWORK INSTALLATION SHALL BE MADE COMPLETE WITH ALL REQUIRED FASTENINGS, CLIP ANGLES, BRACES, ANCHORS, ADJUSTABLE LEVELERS, AND OTHER FITTINGS AS REQUIRED TO RENDER THE WORK RIGID AND SECURE.
 4. ALL FASTENERS SECURING CASEWORK SHALL BE IN CONCEALED OR SEMI-CONCEALED LOCATIONS, UNLESS APPROVED OTHERWISE.
 5. AVOID DAMAGING FINISHED SURFACES. REPAIR OR REPLACE ALL DAMAGED MATERIALS AND SURFACES IN A MANNER APPROVED BY THE ARCHITECT.
 6. UPON COMPLETION OF WORK, AND IN THE ARCHITECT'S PRESENCE, DEMONSTRATE HARDWARE TO WORK FREELY AS INTENDED.

- L. PLANK PANELING INSTALLATION:
1. INSTALL IN THE LOCATIONS INDICATED.
 2. FASTEN WITH CONCEALED FASTENERS AT MINIMUM 8 INCHES ON CENTER. COORDINATE INSTALLATION OF BLOCKING AS SPECIFIED IN SECTION 061000.
 3. ALLOW SPACE FOR EXPANSION AND CONTRACTION.

- M. FLAT PANEL INSTALLATION:
1. INSTALL PANELING AS INDICATED IN ACCORDANCE WITH ANI SECTION 5000 PREMIUM GRADE STANDARDS.
 2. INSTALL WOOD PANELING OVER WALL SURFACES ON 3/4 INCH X 2 INCH PINE NAILING STRIPS, UNLESS APPROVED OTHERWISE.
 3. CUT AND FIT EACH PANEL TO ITS PARTICULAR POSITION INCLUDING CUTTING AROUND ITEMS WHICH CANNOT BE REMOUNTED TO PANEL FACE, AND PREDRILLING FOR HOLES FOR WIRE CAPPING FOR ELECTRICAL DEVICES TO BE MOUNTED ON THE PANEL FACE.

- N. BANQUETTE INSTALLATION:
1. INSTALL BANQUETTE ACCURATELY, PLUMB, SQUARE, AND LEVEL, AND PERMANENTLY SECURED IN PRECISE POSITION AS INDICATED ON THE DRAWINGS. SCRIBE TO ADJACENT CONSTRUCTION.
 2. ALL FASTENERS SECURING BANQUETTE SHALL BE IN CONCEALED OR SEMI-CONCEALED LOCATIONS, UNLESS APPROVED OTHERWISE.
 3. AVOID DAMAGING FINISHED SURFACES. REPAIR OR REPLACE ALL DAMAGED MATERIALS AND SURFACES IN A MANNER APPROVED BY THE ARCHITECT.

01540 MAINTENANCE OF MEMBRANE ROOFING

- A. ROOFING MATERIALS: UNLESS APPROVED OTHERWISE, NEW ROOFING MATERIALS SHALL MATCH THE EXISTING MATERIALS.
- B. FLASHING MATERIALS:
1. GALVANIZED STEEL SHEET: ASTM A525; 60% GALVANIZED FINISH, EXCEPT PROVIDE 60% WHERE SPECIAL FINISH IS USED.
 2. IN ORDER TO MATCH EXISTING COLORS, CONTRACTOR MAY PROVIDE EITHER FACTORY PREFINISHED GALVANIZED STEEL, OR SPECIAL FINISH ON GALVANIZED STEEL.
- C. FLASHINGS:
- a. FACTORY PREFINISHED: FACTORY PREFINISHED WITH 70% RESIN KYNAR 500 OR HYLAR 5000 FLUOROCARBON COATING; COLOR AS SELECTED BY THE ARCHITECT TO MATCH EXISTING FLASHING OR TRIM.
 - b. SPECIAL FINISH MATERIALS:
 - 1) PRIMER: TNEDEC SERIES N27 "TYPODY," CARBOLINE 890, OR APPROVED.
 - 2) URETHANE FINISH COATS: TNEDEC SERIES 75 "INDURA-SHIELD" ACRYLIC POLYURETHANE ENAMEL, CARBOLINE "L33HB," OR APPROVED; SEMI-GLOSS OR SATIN SHEEN; CUSTOM COLORS AS SELECTED BY THE ARCHITECT TO MATCH THE EXISTING FLASHING OR TRIM.
 3. STAINLESS STEEL SHEET: ASTM A167; TYPE 302 OR 304
 4. ACCESSORIES:
 - a. FASTENERS:
 1. PROVIDE SOFT NEOPRENE WASHERS AT EXPOSED FASTENERS.
 2. GALVANIZED STEEL SHEET: USE GALVANIZED STEEL OR STAINLESS STEEL.
 3. STAINLESS STEEL SHEET: STAINLESS STEEL.
 4. USE SCREWS WHEN FASTENING INTO WOOD OR SHEET METAL.
 5. USE EXPANSION ANCHORS OR DRIVE PINS WHEN FASTENING INTO CONCRETE OR MASONRY.
 - b. BUTYL RUBBER SEALANT: ONE OF THE FOLLOWING:
 - 1) CURTAIN WALL SEALANT, BY TREMO;.
 - 2) ADCEAL B7-400, BY ADCC PRODUCTS, INC.
 - c. FLEXIBLE FLASHING: W.R. GRACE "PEEM-A-BARRIER" WALL FLASHING, OR "ICE AND WATER SHIELD," OR APPROVED.
 4. FLEXIBLE BOOT PIPE FLASHING: PORTAFIX PLUS (708/766-5240; 800/774-5240) "ALUM-FLASH" WITH EPDM BOOTS, OR APPROVED; SIZED TO MATCH PIPE DIAMETER; SPLIT TYPE WITH SEALING HARDWARE WHERE NECESSARY FOR INSULATION AT PENETRATING ITEMS WHICH CANNOT BE DISCONNECTED FOR TOP ACCESS. FURNISH STAINLESS STEEL DRAW BANDS, ADAPTERS, CONNECTION HARDWARE, AND SEALANTS AS NECESSARY FOR A COMPLETE AND WEATHER TIGHT INSTALLATION.

01550 PROTECTION:

1. PROTECT EXISTING CONSTRUCTION ADJACENT TO HOST AND KETTLES PRIOR TO STARTING WORK.
 2. LAP SUITABLE PROTECTIVE MATERIAL AT LEAST 3 INCHES.
 3. SECURE PROTECTIVE COVERINGS AGAINST WIND.
 4. LEAVE PROTECTIVE COVERING IN PLACE FOR DURATION OF ROOFING WORK.
 5. LEAVE PROTECTIVE COVERINGS IN PLACE FOR THE DURATION OF THE WORK.
 6. RESTORE TO ORIGINAL CONDITION OR REPLACE WORK OR MATERIALS DAMAGED DURING HANDLING OF BITUMENS AND ROOFING MATERIALS.
- D. REMOVAL OF EXISTING ROOFING AND FLASHING SYSTEMS:
1. REMOVE EXISTING ROOFING AND FLASHING SYSTEMS TO ACCOMMODATE NEW ROOFING AND FLASHING SYSTEMS.
 2. REMOVE EXISTING SYSTEMS TO EXPOSE SUBSTRATES. CLEAN AND PREPARE SURFACES IN MANNER REQUIRED FOR INSTALLATION OF NEW SYSTEMS.
 3. REMOVE RESISTING MATERIALS FROM ROOFING AREAS AND JOBSITE ON THE SAME DAY THEY ARE REMOVED. DISPOSE OF IN A LEGAL MANNER.
 4. PROVIDE CHUTES, TRAPS, AND OTHER MATERIALS TO PREVENT DAMAGING OR STARTING OF BUILDING COMPONENTS THAT ARE TO REMAIN.
 5. EXISTING SURFACES SHALL BE MADE SMOOTH, FIRM, DRY, AND FREE FROM DIRT,

- elsewhere. Blooming for fire rated doors shall meet the door manufacturer's labeling requirements.
- INSTALLATION:
 1. FIT AND PREPARE DOORS FOR INSTALLATION IN ACCORDANCE WITH THE DOOR MANUFACTURER'S PRINTED INSTRUCTIONS.
 2. PROVIDE CLEARANCES OF 1/8 INCH AT JAMBS AND HEADS AND 1/8 INCH FROM BOTTOM OF DOOR TO TOP OF DECORATIVE FLOOR FINISH OR COVERING, EXCEPT WHERE THRESHOLD IS SHOWN OR SCHEDULED PROVIDE 1/4 INCH CLEARANCE FROM BOTTOM OF DOOR TO TOP OF THRESHOLD.

083100 ACCESS DOORS AND PANELS

- A. SUBMITTALS:
 1. SUBMIT PRODUCT DATA, INCLUDE SIZES, TYPES, FINISHES, SCHEDULED LOCATIONS, AND DETAILS OF ADJOINING CONSTRUCTION.
- B. QUALITY ASSURANCE:
 1. WHERE ACCESS DOORS ARE INSTALLED IN CONSTRUCTION WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITERS LABORATORY, WILMOR HERSEY, OR ANY OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES TO MEET THE REQUIREMENTS OF THE FIRE RATED ASSEMBLY.
- C. ACCEPTABLE MANUFACTURERS:
 1. MILCOR, INC., UMA, OH.
 2. J.L. INDUSTRIES, BLOOMINGTON, MN.
 3. KARP ASSOCIATES, INC., MASPETH, NY.
 4. IAW SYSTEMS CORPORATION, TUCKER, GA.
 5. INVERSON, MINNEAPOLIS, MN.
- D. DOOR TYPES:
 1. FIRE RATED METAL ACCESS DOOR:
 - a. FLUSH TYPE DESIGN.
 - b. 16 GAGE FRAME, MINIMUM 20 GAGE STEEL WELDED PAN DOOR PANEL INSULATED WITH NON-COMBUSTIBLE FILLER
 - c. SELF CLOSING AND SELF LATCHING, WITH INTERIOR LATCH RELEASE
 - d. FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIVOT HINGE, 175 DEGREE OPENING.
 - e. RING TURN LATCH.
 2. NON RATED CONCEALED DRYWALL ACCESS DOOR:
 - a. RECESSED TYPE DESIGN.
 - b. MINIMUM 13 GAGE STEEL FRAME, MINIMUM 16 GAGE STEEL DOOR PANEL RECESSED TO RECEIVE DRYWALL
 - c. INTEGRAL ATTACHMENT FLANGE AND DRYWALL BEAD FOR FLUSH INSTALLATION.
 - d. FULLY CONCEALED PIVOT ROD HINGE.
 - e. LATCHES: SCREW DRIVER OPERATED CAM LATCH.
 3. TOILET ROOM FAUCET POWER SUPPLY AND MIXING VALVE ACCESS DOORS: NON-RATED WALL TYPE, 12"W X 12" H, STAINLESS STEEL, #4 FINISH; ONE PACE FRAME; CONCEALED HINGE.
 4. WINDOW SIZES: PROVIDE ACCESS DOORS IN SIZES INDICATED. WHEN NOT INDICATED PROVIDE 12" X 12" SIZE FOR HAND ACCESS, AND 24" X 24" SIZE FOR MAIN ENTRY.
- E. INSTALLATION:
 1. PROVIDE ACCESS DOORS IN THE LOCATIONS INDICATED, AND FOR ACCESS TO BALANCING AND FIRE DAMPERS, TRAP PRIMERS, VALVES, FANS, TERMINAL UNITS, AND OTHER EQUIPMENT REQUIRING PERIODIC INSPECTION THROUGH FINISHED WALLS OR CEILING, WHETHER INDICATED OR NOT.
 2. COORDINATE ACCESS REQUIREMENTS WITH OTHER TRADES.
 3. PROVIDE CONCEALED DRYWALL ACCESS DOORS UNLESS FIRE RATED ACCESS DOORS ARE REQUIRED BECAUSE OF FIRE RATED CONSTRUCTION.

083400 IMPACT DOORS

- A. SECTION INCLUDES: IMPACT DOORS AND HARDWARE.
- B. SUBMITTALS:
 1. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS.
 2. SHOP DRAWINGS: INDICATE DOOR ELEVATIONS, HARDWARE LOCATIONS, VISUAL LIFE LOCATIONS AND SIZES, FRAME REINFORCEMENT REQUIREMENTS, AND FINISHES.
- C. MANUFACTURER: ELIASON CORPORATION, EASY SWING DOOR DIVISION, KALAMAZOO, MI (800/938-2655)
 1. TYPE: MODEL DSP 3.
 2. DOOR BODY: 16 GAUGE STAINLESS STEEL WITH DELTA FORMED VERTICAL EDGES
 3. WINDOW: 9" X 14" CLEAR ACRYLIC SET IN BLACK RUBBER MOLDING
- D. ACCESSORIES:
 1. EDGE CAPS: FORMED STAINLESS STEEL CHANNELS, 18 GAGE, MINIMUM, TYPICAL AT EACH TOP AND BOTTOM EDGES.
 2. BASE (KICK) PLATES: 18 GAGE SAFA FINISH STAINLESS STEEL; DOOR WIDTH X 18 INCHES HIGH; FASTENED WITH STAINLESS STEEL NUTS.
 3. PIVOTS: "EASY SWING" HINGE MECHANISM, STAINLESS STEEL.
 4. FASTENERS: AS REQUIRED FOR COMPLETE INSTALLATION OF DOORS AND ACCESSORIES.
- E. MAXIMUM DIAGONAL DISTORTION: 1/4 INCH MEASURED WITH STRAIGHT EDGE, CORNER TO CORNER.
- F. PRIOR TO INSTALLATION, VERIFY THAT FRAMES ARE PREPARED AND READY TO RECEIVE WORK OF THIS SECTION.
- G. INSTALLATION:
 1. INSTALL DOORS, HARDWARE, AND ACCESSORIES IN ACCORDANCE WITH SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS.
 2. THE BOTTOM PIVOT ASSEMBLY SHALL BE SECURED TO THE FRAME ONLY. DO NOT SECURE THE BOTTOM FLANGE OF THE PIVOT ASSEMBLY TO THE FLOOR WITH FASTENERS AS INDICATED IN MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS AS THE FASTENERS WILL PENETRATE THE WATERPROOF MEMBRANE INSTALLED BENEATH THE FINISH FLOORING.
- H. ADJUST AND CLEAN
 1. REPAIR DAMAGE TO DOORS AND ACCESSORIES TO MATCH FABRICATOR'S ORIGINAL FINISH.
 2. ADJUST MECHANISM SO MOVING PARTS OPERATE SMOOTHLY.

083613 OVERHEAD SECTIONAL DOORS

- A. SYSTEM DESCRIPTION
 1. OVERHEAD SECTIONAL DOOR ASSEMBLIES SHALL INCLUDE, WITHOUT LIMITATION, SECTIONAL DOOR, TRACK, HINGES AND FITTINGS, ALL OVERHEAD MOUNTING SUPPORTS, COUNTERBALANCE SYSTEM, AND ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
- B. SUBMITTALS:
 1. PRODUCT DATA: SUBMIT MANUFACTURER'S COMPLETE PRODUCT LITERATURE INDICATING SPECIFIED ITEMS AND METHOD OF INSTALLATION.
 2. SHOP DRAWINGS: INDICATE DETAILS AND DIMENSIONS OF FABRICATION AND INSTALLATION, INCLUDING LOCKS, TRACK MOUNTING, SUPPORTS, AND LOCATION OF OPERATING MECHANISM.
- C. QUALITY ASSURANCE
 1. INSTALLERS: INSTALLATION SHALL BE PERFORMED BY INSTALLERS EMPLOYED BY A MANUFACTURER'S APPROVED DISTRIBUTOR.
- D. OVERHEAD SECTIONAL DOOR: OVERHEAD DOOR COMPANY, 422 SERIES DOOR.
 1. PANELS: 20 GAGE EXTERIOR PANELS; 26 GAGE INTERIOR PANELS; ISOCONATING W/OUT CORE; 16 GAGE STILES; 2 INCH THICK PANELS.
 2. GLAZING: MANUFACTURER'S STANDARD INSULATED UNITS, LOW-E COATING ON #2 SURFACE; SAFETY GLAZING WHERE REQUIRED.
 3. FACTORY PRIMED FINISH.
- E. PROVIDE WEATHER-STRIPPING AT EXTERIOR DOORS; "SUP-UR-SEAL" WEATHERSEAL.
- F. HINGES AND FITTINGS: GALVANIZED; CAM-ACTION HARDWARE.
- G. TRACKS: 3 INCH, STAINLESS "HEAVYDUTY" TRACK.
- H. LOCK: MANUFACTURER'S STANDARD.
- I. PUSH-UP TYPE: PROVIDE ROPE PULL FOR DOORS UP TO 8'-0" WIDE AND CHAIN OPERATED TYPE FOR DOORS WIDER THAN 8'-0".
- J. EXAMINATION:
 1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
 2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.
 3. VERIFY OPENINGS ARE CORRECTLY DIMENSIONED WITH HEADERS LEVEL, JAMBS PLUMB, AND FLOOR LEVEL.
- K. INSTALLATION:
 1. INSTALL DOOR ASSEMBLIES AS INDICATED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 2. INSTALL DOORS FREE FROM WARPS, TWISTS, OR DISTORTION.
- L. REPAIR AND ADJUSTMENT
 1. ADJUST MECHANISM SO MOVING PARTS OPERATE SMOOTHLY.

084010 ALUMINUM ENTRANCES AND STOREFRONTS

- A. SUMMARY:
 1. SECTION INCLUDES:
 - a. ALUMINUM FRAMED STOREFRONT AND WINDOW SYSTEMS.
 - b. ALUMINUM FRAMED GLASS ENTRANCE DOORS INTEGRAL WITH ALUMINUM FRAMED GLAZING SYSTEMS.
 - c. ALUMINUM PANEL AND TRIM RELATED TO ALUMINUM FRAMED GLAZING SYSTEMS.
 - d. SEALANTS WITHIN ALUMINUM FRAMED GLAZING SYSTEMS.
 - e. RELATED FLASHING AND TRIM.
 2. RELATED ANCHOR BRACKETS AND SUPPORTS.
 3. STRUCTURAL DESIGN OF ALUMINUM FRAMED GLAZING SYSTEMS, INCLUDING FRAMING AND ATTACHMENT TO STRUCTURE.
 4. HARDWARE FOR ENTRY DOORS.
- B. RELATED SECTIONS:
 - a. 079200 - JOINT SEALANTS: PERIMETER JOINT FILLERS.
 - b. 087100 - DOOR HARDWARE: DOOR HARDWARE OTHER THAN THAT SPECIFIED IN THIS SECTION; TEMPLATES.
 - c. 088000 - GLAZING: GLASS AND GLAZING
 - d. DRAWINGS, THE PROVISIONS OF THE AGREEMENT, THE GENERAL CONDITIONS, AND DIVISION 1 SPECIFICATION
- C. SYSTEM DESCRIPTION
 1. APPEARANCE: SYSTEM SHALL CONFORM TO THE GENERAL APPEARANCE AS INDICATED ON THE DRAWINGS, INCLUDING WITHOUT LIMITATION, POSITION, SPACING, AND LOCATION OF FRAMING MEMBERS, PLANE OF GLAZING, EXTERIOR FRAME GENERAL PROFILE AND SHAPE, AND DIMENSION POINTS.
 2. THERMAL PERFORMANCE:
 - a. SYSTEMS SHALL ACCOMMODATE EXPANSION AND CONTRACTION CAUSED BY A TEMPERATURE RANGE OF -20 DEGREES F. TO +160 DEGREES F. WITHOUT DETRIMENTAL EFFECTS TO COMPONENTS, SEALING SYSTEMS, AND SURROUNDING CONSTRUCTION.
 - b. THERMAL TRANSMITTANCE: MAXIMUM U=0.60 WHEN TESTED IN ACCORDANCE WITH NFRC REQUIREMENTS. PROVIDE CURTAIN WALL SYSTEMS WITH CERTIFICATION STATING THAT THEY HAVE BEEN TESTED IN ACCORDANCE WITH NFRC TO MEET THE SPECIFIED REQUIREMENTS USING GLASS WHICH MATCHES THE GLASS TO BE USED IN THE PROJECT.
 3. PERFORMANCE - AIR INFILTRATION:
 - a. AIR INFILTRATION STOREFRONT, WINDOW, AND CURTAINWALL SYSTEMS: NOT TO EXCEED 0.05 CFM PER SQUARE FOOT OF FIXED AREA WHEN TESTED IN ACCORDANCE WITH ASTM E283 AT A STATIC PRESSURE DIFFERENTIAL OF 6.24 PSF.
 - b. AIR INFILTRATION ALUMINUM ENTRANCE DOORS: LIMIT AIR INFILTRATION THROUGH ASSEMBLY TO 0.05CFM/MIN/FT. OF PERIMETER CRACK, MEASURED AT A STATIC DIFFERENTIAL PRESSURE OF 1.57PSF AS MEASURED IN ACCORDANCE WITH ASTM E283.
 4. PERFORMANCE - WATER PENETRATION:
 - a. DESIGN SYSTEMS TO DRAIN WATER, INCLUDING CONDENSATION, TO THE EXTERIOR.
 - b. WATER PENETRATION STOREFRONT AND WINDOW SYSTEMS: NO WATER PENETRATION WHEN TESTED IN ACCORDANCE WITH ASTM E331 AT A STATIC PRESSURE DIFFERENTIAL OF 20 PERCENT OF THE DESIGNED WIND PRESSURE.
 5. STRUCTURAL DESIGN:
 - a. DESIGN AND SIZE MEMBERS TO WITHSTAND POSITIVE AND NEGATIVE WIND LOADS AS INDICATED ON THE STRUCTURAL DRAWINGS.
- D. SYSTEM SHALL LIMIT FRAMING DEFLECTION TO 1/175 OF THE SPAN, AND ALLOWABLE STRESS WITHIN A SAFETY FACTOR OF 1.65, WHICHEVER IS GREATEST, UNLESS WIND LOAD LISTED ON THE STRUCTURAL DRAWINGS.
 - a. ANCHORAGES AND INSERTS SHALL BE DESIGNED TO RESIST ALL DESIGN AND LIVE LOADS, IN COMBINATIONS AS SPECIFIED, AND INCLUDING A CONTRIBUTION OF 1.25 X THE DESIGN WIND LOAD.
 - a. SEISMIC DESIGN: THE INSTALLED SYSTEM SHALL BE CAPABLE OF ACCOMMODATING SEISMIC LOADS IN COMPLIANCE WITH CODE REQUIREMENTS.
- E. DYNAMIC MOVEMENT: SYSTEM SHALL ACCOMMODATE THE FOLLOWING WITHOUT DAMAGE TO SYSTEM COMPONENTS OR PERFORMANCE:
 - a. MOVEMENT WITHIN THE SYSTEM
 - b. MOVEMENT BETWEEN THE SYSTEM AND PERIMETER FRAMING COMPONENTS.
 - c. APPLICATION AND RELEASE OF DESIGN LIVE LOADS
 - d. DEFLECTION OF STRUCTURAL SUPPORT FRAMING.
 - e. MAXIMUM WIND AND SEISMIC MOVEMENT SHALL CALCULATED AS A MAXIMUM STORY DRIFT OF .005 TIMES THE STORY HEIGHT.
- F. UNDER NORMAL CIRCUMSTANCES, SYSTEMS SHALL NOT EXHIBIT VIBRATION HARMONICS, WIND WHISTLES, AND NOISES CAUSED BY THERMAL MOVEMENT UNDER THE FULL RANGE OF DESIGN LOADS AND CONDITIONS, THE SYSTEMS SHALL NOT EXHIBIT LOOSENING, WEAKENING, OR FRACTURING OF ATTACHMENTS OR COMPONENTS OF THE SYSTEM, INCLUDING GLAZING AND SEALANTS.

- C. SUBMITTALS:
 1. MAKE SUBMITTALS IN ACCORDANCE WITH SECTION 015300.
 2. PRODUCT DATA: MANUFACTURER'S COMPLETE PRODUCT FOR ALL COMPONENTS AND SYSTEMS PROPOSED.
 3. SHOP DRAWINGS:
 - a. ELEVATIONS, SYSTEM DIMENSIONS, AND EXPANSION AND CONTRACTION JOINT LOCATION.
 - b. ALL SPECIAL AND TYPICAL DETAILS.
 - c. FRAMING PROFILES.
 - d. MATERIALS AND FINISHES.
 - e. ADJACENT CONSTRUCTION.
 4. ANCHORAGE SYSTEM DETAILS.
 5. FASTENING METHODS.
 6. SHOP DRAWINGS SHALL BE STAMPED BY THE DESIGNING STRUCTURAL ENGINEER.
- D. SAMPLES:
 1. SUBMIT ONE SAMPLE OF A TYPICAL WINDOW CORNER SECTION WITH MINIMUM 12 INCH LONG LEGS. FINISH TO MATCH ARCHITECT'S SAMPLE. INCLUDE TYPICAL GLASS UNIT AND GLAZING SYSTEM.
- E. QUALITY CONTROL SUBMITTALS:
 - a. CERTIFICATION: SUBMIT CERTIFICATION THAT THE PRECAST STAR SYSTEMS HAVE BEEN DESIGNED TO MEET THE SPECIFIED REQUIREMENTS.
 - b. TEST REPORTS: SUBMIT COPIES OF TEST REPORTS WHICH VERIFY THAT EACH ALUMINUM FRAMED GLAZING SYSTEM MEETS THE AIR AND WATER INFILTRATION PERFORMANCE REQUIREMENTS SPECIFIED.
- F. CLOSEOUT SUBMITTALS:
 - a. IN ACCORDANCE WITH SECTION 017700.
 - b. SUBMIT DESIGNING ENGINEER'S CERTIFICATION THAT PRODUCTS AND INSTALLATION COMPLY WITH DESIGN REQUIREMENTS.

- D. QUALITY ASSURANCE
 1. INSTALLERS: UNDER THE DIRECT SUPERVISION OF THE MANUFACTURER OF THE ALUMINUM FRAMED GLAZING SYSTEM.
 2. DESIGN: STRUCTURAL DESIGN OF THE ALUMINUM FRAMED GLAZING SYSTEMS SHALL BE BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF WHERE THE PROJECT IS LOCATED.
 3. STRUCTURAL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
 4. ALL MATERIALS SHALL CONFORM TO THE METAL CURTAIN WALL GUIDE SPECIFICATIONS AS PUBLISHED BY THE ARCHITECTURAL ALUMINUM MANUFACTURERS' ASSOCIATION.
- E. MANUFACTURER'S WARRANTY
 1. FURNISH MANUFACTURER'S STANDARD FIVE YEAR WRITTEN WARRANTY EXECUTED TO THE OWNER, FROM THE MANUFACTURER OF EACH ALUMINUM FRAMED GLAZING SYSTEM, AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, IN ACCORDANCE WITH SECTION 017700.
- F. GUARANTEE
 1. FURNISH FROM THE INSTALLER, A TWO YEAR WRITTEN GUARANTEE AGAINST DEFECTS IN INSTALLATION IN ACCORDANCE WITH SECTION 017700.
- G. MATERIALS:
 1. EXTRUDED ALUMINUM: ASTM B221, 6063 T5 ALLOY AND TEMPER.
 2. SHEET ALUMINUM: ASTM B209, 5005-H32 ALLOY, OR APPROVED.
- H. DESIGN:
 1. WINDOW: T-451 (NON-INSULATED) AND T-451T (INSULATED) SYSTEMS OR EQUAL. PROVIDE INSULATED SYSTEMS AT ALL EXTERIOR LOCATIONS.
- I. COMPONENTS
 1. DOOR HARDWARE:
 - a. HINGES: MANUFACTURERS STANDARD CENTER PIVOT HINGES.
 - b. CONCEALED CLOSERS: LCN 2030 SERIES; 8.5 LBS. FORCE EXTERIOR; 5 LBS. INTERIOR.
 - c. RAIL LOCKS: ADAMS RITE #6-18141-01 SINGLE POINT; DESIGNED TO RECEIVE CYLINDER SPECIFIED IN SECTION 087100.
 - d. THRESHOLDS: EXTRUDED ALUMINUM.
 2. WEATHERSTRIPPING: MANUFACTURER'S STANDARD.
 3. REMAINING HARDWARE IS SPECIFIED IN SECTION 087100.
- 2. GLAZING BEADS: DENSE CLOSED CELL FOAM TAPE, OR FOAM WITH SILICONE SEALED CORNERS. FURNISH FOR INSTALLATION AS A PART OF THE WORK OF SECTION 088000.
- 3. GLASS: AS SPECIFIED IN SECTION 088000.
- 4. SEALANTS: AS SPECIFIED IN SECTION 079200.
- 5. FASTENERS: ASTM A194, ALUMINUM, STAINLESS STEEL, OR ZINC PLATED STEEL.
- J. ALUMINUM FRAMED GLAZING SYSTEMS FABRICATION
 1. FABRICATE FRAMES ALLOWING FOR SHIM SPACING AROUND PERIMETER OF ASSEMBLY, YET ENABLING INSTALLATION.
 2. IN SO FAR AS PRACTICAL, FITTING AND ASSEMBLY OF THE WORK SHALL BE PERFORMED IN THE SHOP.
 3. MAKE JOINTS FLUSH, UNIFORM, HARBLINE (MAXIMUM 1/16 INCH, EXCEPT FOR EXPANSION JOINTS), AND WEATHERPROOF. SEAL JOINTS WITH SEALANT.
 4. RIGIDLY FIT JOINTS AND CORNERS. ACCURATELY FIT AND SECURE CORNERS TIGHT. MAKE CORNER JOINTS FLUSH, UNIFORM, HARBLINE (MAXIMUM 1/16 INCH, EXCEPT FOR EXPANSION JOINTS), AND WEATHERPROOF. SEAL JOINTS WITH SEALANT.
 5. PROVIDE DRAINAGE HOLES TO ALLOW WATER TO FLOW TO EXTERIOR.
 6. PREPARE COMPONENTS TO RECEIVE ANCHORAGE DEVICES. FABRICATE ANCHORAGE ITEMS.
 7. PROVIDE INTERNAL REINFORCEMENT IN MULLIONS WITH MEMBERS TO MAINTAIN RIGIDITY. PROVIDE REINFORCING AT ALL DOOR STROKE JAMBS.
 8. FABRICATE FRAMING SYSTEMS TO ACCOMMODATE HARDWARE USING TEMPLATES FURNISHED FROM THE HARDWARE SUPPLIER.
 9. FABRICATE SILL AND OTHER FLASHING TO DIRECT WATER TO THE EXTERIOR.
- K. ALUMINUM PANEL FABRICATION:
 1. FORM PANELS TO THE CONFIGURATIONS INDICATED. USE 0.125 INCH THICK ALUMINUM OR THICKNESSES AS NECESSARY TO PREVENT OIL CANNING AND TO RESIST DAMAGE FROM IMPACT.
 2. FABRICATE PANELS WITH CONCEALED ANCHORAGE TO ADJACENT CONSTRUCTION.
 3. UNLESS OTHERWISE OTHERWISE, FABRICATE PANELS WITH BRADEN FORMED CORNERS. BACK ROUTE PANELS THICKER THAN .125 INCH THICKNESS FOR MINIMUM RADIUS AT CORNERS AND MOUNTING HOLES. WELD JOINTS CONTINUOUSLY AND GRIND SMOOTH.
 4. BASE FABRICATION ON AN ASSUMED DESIGN TEMPERATURE OF 70 DEGREES F. ALLOW FOR AMBIENT TEMPERATURE RANGE AT TIME OF ERECTION.
 5. FABRICATE PANELS WITH SHARP AND TRUE LINES, BREAKS AND ANGLES. SURFACE SHALL BE FREE OF OIL CANNING, WARPS, OR BUCKLES. FACTORY CURVE RADIUS INSULATED PANELS AND EDGE EXTRUSIONS.
 6. PROVIDE STIFFENERS SECURED TO THE REAR FACE OF THE PANELS AND TRIM AS NECESSARY TO RESIST DESIGN LOADS AND TO ELIMINATE OIL-CANNING.
 7. ALLOWABLE PANEL TOLERANCES:
 - a. FLATNESS: NO POINT ON A SURFACE PLANE SHALL VARY MORE THAN 1/8 INCH UNDER A 10 FOOT STRAIGHT EDGE.
 - b. EDGE STRAIGHTNESS: NO POINT ON AN EDGE OR ARRIS SHALL VARY MORE THAN 1/16 INCH UNDER A 10 FOOT STRAIGHT EDGE.
 - c. SHAPES: NO SHAPE SHALL VARY FROM ITS PRESCRIBED LOCATION MORE THAN 1/8 INCH IN ANY DIRECTION.
 - d. PANEL DIMENSIONS: NOT MORE THAN 1/16 INCH FROM INDICATED DIMENSION.
 - e. CURVES: NO POINT ON THE SURFACE OF THE CURVE SHALL VARY FROM THE PRESCRIBED ARC MORE THAN 1 PERCENT OF THE RADIUS.
- L. FINISHES:
 1. FINISH FOR EXPOSED ALUMINUM SURFACES: MINIMUM 10 PERCENT RESIN NYNAR 500 OR HYLAR 5000 PVD SYSTEM. COMPLYING WITH ANMA 2605, CUSTOM NON-EXOTIC COLOR AS LISTED IN THE EXTERIOR FINISH SCHEDULE.
 2. STEEL ANCHORAGES AND SUPPORTS: CLEAN AND APPLY RUST RESISTANT PRIMER.
 3. ISOLATE ALUMINUM FROM DISSIMILAR MATERIALS
- M. EXAMINATION:
 1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
 2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.
- N. PREPARATION:
 1. COORDINATE DIMENSIONS, TOLERANCES, AND METHOD OF ATTACHMENT WITH THE OTHER WORK.
 2. FURNISH INSERTS FOR PLACEMENT BY OTHER TRADES, COORDINATE LOCATIONS AND ALIGNMENT.
- O. INSTALLATION:
 1. INSTALL FRAMES, DOORS, AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND THE APPROVED SHOP DRAWINGS.
 2. USE ANCHORAGE DEVICES TO SECURELY ATTACH FRAMING SYSTEMS TO STRUCTURE.
 3. ALIGN FRAMES PLUMB AND LEVEL, FREE OF WARP OR TWIST. MAINTAIN DIMENSIONAL TOLERANCES, ALIGNING WITH ADJACENT WORK.
 4. STOREFRONT FRAMING:
 - a. INSTALL UNDER SILL ALUMINUM FLASHINGS. SEAL ALL FRAME JOINTS, AND PENETRATIONS IN FLASHINGS.
 - b. SUB-SILLS:
 - 1) PROVIDE EXTRUDED ALUMINUM SUB-SILLS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS SPECIFIED BELOW.
 - 2) PROVIDE END DAMS AND SPICE PLATES SEALED INTO POSITION. END DAMS AND SPICE PLATES SHALL MATCH THE HEIGHT OF THE SUB-SILL BACK.
 - 3) SEAL JOINT BETWEEN END DAM AND JAMB.
 - 4) FASTEN THE SUB-SILL SECURELY TO THE SILL CONSTRUCTION. CAP SEAL TOPS OF FASTENERS.
 - 5) FASTEN THE STOREFRONT FRAMING UNDER THE SUB-SILL. USE MANUFACTURER'S STANDARD INTERLOCKING ANCHORS WHICH ENGAGE THE SUB-SILL AND ALLOW FASTENING OF THE STOREFRONT WITHOUT PENETRATING THE HORIZONTAL PAN OF THE SUB-SILL.
 - 6) INSTALL WATER DIVERTERS.
 - 7) COMPENSATION HEADS:
 - 1) PROVIDE COMPENSATION CHANNELS AT HEAD CONDITIONS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS SPECIFIED BELOW.
 - 2) PROVIDE MANUFACTURER'S STANDARD END CAPS SEALED INTO POSITION. END CAPS SHALL MATCH THE HEIGHT OF THE COMPENSATION CHANNEL AND SHALL BE PRE-FINISHED TO MATCH THE FRAMING AT EXPOSED LOCATIONS.
 - 3) PROVIDE INTERLOCKING MULLION ANCHORS AT VERTICAL TURNES.
 - 8) PERIMETER SEALANT IS PROVIDED UNDER SECTION 079200 - JOINT SEALANTS.
 5. INSTALL HARDWARE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN SECTION 087100. ADJUST HARDWARE INSTALLED IN THIS SECTION FOR SMOOTH OPERATION.
 6. PROTECT ALUMINUM FROM DISSIMILAR MATERIALS WITH A COATING OF BITUMINOUS PAINT, PLASTIC SEPARATOR MATERIALS, OR ISOLATION TAPE. KEEP ISOLATION MATERIALS UNEXPOSED TO VIEW.

- 9. TOUCH-UP ALL DAMAGE COATINGS WITH MATERIALS TO MATCH THE ORIGINAL COATING. REMOVE AND REPLACE WITH NEW ALL DAMAGED COMPONENTS WHICH CANNOT BE REPAIRED AS DETERMINED BY THE ARCHITECT.
- 10. INSTALLATION TOLERANCES:
 11. VARIATION FROM PLANE: 0.06 INCHES EVERY THREE FEET MAXIMUM OR 0.05 INCHES PER 100 FEET, WHICHEVER IS LESS.
 12. MISALIGNMENT OF TWO ADJOINING MEMBERS ABUTTING IN PLANE: 0.125 INCHES.
- P. FIELD QUALITY CONTROL:
 1. HOSE TEST INSTALLATION IN ACCORDANCE WITH ANMA 5012 (MODIFIED TO EXCLUDE THE APPEARANCE OF ANY WATER AT THE INTERIOR) AT SELECTED LOCATIONS AS APPROVED BY THE ARCHITECT. HOSE TEST SEPARATELY FOR EACH TYPE OF SYSTEM TO BE PROVIDED.
 2. SHOULD TESTING SHOW LEAKAGE, ELIMINATE THE CAUSE OF SUCH LEAKAGE AT NO ADDITIONAL COST TO THE OWNER. REMEDIAL MEASURES SHALL CONFORM TO THE SPECIFIED REQUIREMENTS FOR THE ORIGINAL INSTALLATION.
 3. THE TESTING MAY BE WITNESSED BY THE OWNER AND THE ARCHITECT. FURNISH A MINIMUM OF 5 WORKING DAYS NOTICE PRIOR TO TESTING.
- Q. CLEANING:
 1. REMOVE PROTECTIVE MATERIAL FROM FINISHED ALUMINUM SURFACES IF APPLICABLE.
 2. WASH DOWN EXPOSED SURFACES USING A SOLUTION OF MILD DETERGENT IN WARM WATER, APPLIED WITH SOFT, CLEAN WIPING CLOTHS. TAKE CARE TO REMOVE DIRT FROM CORNERS. WIPE SURFACES CLEAN.
- R. FIELD QUALITY CONTROL:
 1. THE STRUCTURAL DESIGN ENGINEER OR AN AUTHORIZED REPRESENTATIVE SHALL VISIT THE SITE TO INSPECT THE WORK. VERIFY AND CERTIFY THAT THE INSTALLATION HAS BEEN INSTALLED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS.

087100 DOOR HARDWARE

- A. SUBMITTALS:
 1. HARDWARE SCHEDULE: SUBMIT TO THE ARCHITECT, IN TRIPLICATE, A COMPLETE SCHEDULE OF PROPOSED FINISH HARDWARE. SCHEDULE SHALL BE COMPLETELY DETAILED, SHOWING ALL ITEMS, NUMBERS AND FINISHES FOR ALL HARDWARE FOR EACH SEPARATE OPENING.
 2. SUPPLIER QUALIFICATIONS: FINISH HARDWARE SHALL BE SUPPLIED BY RECOGNIZED BUILDERS' HARDWARE SUPPLIER WHO HAS BEEN FURNISHING HARDWARE IN THE SAME AREA AS THE PROJECT FOR A PERIOD OF NOT LESS THAN FIVE YEARS. THE SUPPLIER'S ORGANIZATION SHALL INCLUDE CONSULTANTS WHO ARE AVAILABLE AT ALL REASONABLE TIMES DURING THE COURSE OF THE WORK TO MEET PERSONALLY WITH THE TENANT, ARCHITECT, OR CONTRACTOR FOR HARDWARE CONSULTATION. THE SUPPLIER SHALL MAINTAIN A PARTS INVENTORY OF ITEMS SUPPLIED FOR FUTURE SERVICE TO THE TENANT.
 3. PRODUCTS: AS SCHEDULED ON THE DRAWINGS.
 4. KEYS & KEYING:
 - a. ALL CYLINDER ITEMS SHALL BE KEYS TO EXISTING BUILDING AS DIRECTED BY THE TENANT.
 - b. KEYS: FURNISH 3 FOR EACH CYLINDER UNIT.
- B. INSTALLATION:
 1. EXPOSED SURFACES OF HARDWARE SHALL BE COVERED AND WELL PROTECTED DURING INSTALLATION, SO AS TO AVOID DAMAGE TO FINISHES.
 2. INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS. WHEREVER CUTTING AND FITTING ARE REQUIRED TO INSTALL HARDWARE INTO OR INTO SURFACES WHICH ARE LATER TO BE FINISHED OR FINISHED IN ANOTHER WAY, INSTALL EACH ITEM COMPLETELY AND THEN REMOVE AND STORE IN A SECURE PLACE DURING THE FINISH OPERATION. AFTER COMPLETION OF THE FINISHES, REINSTALL EACH ITEM. DO NOT INSTALL SURFACE MOUNTED ITEMS UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.
 3. HARDWARE MOUNTING HEIGHTS: MOUNTING HEIGHTS ARE BASED ON RECOMMENDATIONS OF THE NATIONAL BUILDERS' HARDWARE ASSOCIATION (NBHA). GENERALLY MOUNT HARDWARE UNITS AT THE FOLLOWING LOCATIONS ON EACH DOOR OR DOOR OPENING, EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS OR REQUIRED TO MEET CODE AND HANDICAPPED REQUIREMENTS. VERIFY ANY CONFLICTS WITH LOCATION OF OTHER HARDWARE FOR PROPER CLEARANCES FOR INSTALLATION PRIOR TO CUTTING OR MILLING FOR SPECIFIED HARDWARE. NOTIFY ARCHITECT IMMEDIATELY IF SUCH CONFLICTS ARE DETERMINED.
 - a. LATCH AND LOCKSETS: 38 INCHES FINISH FLOOR TO CENTER OF KNOB.
 - b. DEAD LOCKS: 52 INCHES FINISH FLOOR TO CENTER OF CYLINDER.
 - c. EMERGENCY EXIT CROSS BAR: 36 INCHES FROM FINISH FLOOR.
 - d. PUSH/PULL: 42 INCHES FINISH FLOOR TO CENTERLINE OF PUSH/PULL.
 - e. PUSH PLATE: 1/2 INCH FROM EDGE OF DOOR; 42 INCHES TO CENTER LINE OF PLATE, EXCEPT 45 INCHES WHERE INDEPENDENT OF THE PUSH/PULL.
 - f. KICK PLATES: MOUNT AT BOTTOM EDGE OF DOOR AND 1/2 INCH FROM OUTSIDE EDGE OF DOOR.
 - g. TOP HINGE: 5 INCHES FROM TOP OF DOOR TO TOP OF HINGE.
 - h. BOTTOM HINGE: 10 INCHES FROM FINISH FLOOR TO BOTTOM OF HINGE.
 - i. CENTER HINGE: EQUAL DISTANCE BETWEEN TOP AND BOTTOM HINGES.
 - j. MULTIPLE HINGE LOCATIONS SHALL BE EQUALLY SPACED BETWEEN TOP AND BOTTOM HINGE.
 - k. WALL STOPS: CENTERLINE OF CORNER OR POINT OF FIRST CONTACT.
 - l. THRESHOLDS: MOUNT AT EXTERIOR DOORS SUCH THAT SLOPE BREAKPOINT ON THRESHOLD IS AT LEAD EDGE OF DOOR. SET IN FULL BEAD OF CAULKING MATERIAL.
 - m. CLOSING: MOUNT FOR MAXIMUM DEGREE OF OPENING OBTAINABLE CONSIDERING OTHER HARDWARE PROVIDED AND OPENING CONDITIONS. SIZE CLOSERS FOR CONDITIONS AND CODE REQUIREMENTS.
 - n. TRIM/PROTECTION: KICKPLATE SHALL BE 2" LOW X HEIGHT INDICATED.
 - o. OTHER HARDWARE ITEMS SHALL BE LOCATED AS RECOMMENDED BY NBHA, OR AS MAY BE SHOWN OR REQUIRED OTHERWISE.
 4. ADJUSTING AND CLEANING: ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATIONAL, CLEAN DOOR AND HARDWARE.

088000 GLAZING

- A. SUBMITTALS:
 1. SUBMITTALS SPECIFIED IN THIS SECTION MAY BE INCORPORATED INTO SUBMITTAL SPECIFIED IN OTHER SECTIONS, WHERE GLASS IS TO BE PROVIDED IN THOSE SECTIONS.
 2. PRODUCT DATA: SUBMIT PRODUCT DATA ON GLASS, GLAZING MATERIALS, AND INSULATING GLASS SYSTEM.
- B. GLASS: PROVIDE THE FOLLOWING GLASS AS SCHEDULED AT THE END OF THIS SECTION:
 1. CLEAR GLASS: ASTM C1036, TYPE I, CLASS 1, CLEAR, QUALITY Q3 GLAZING SELECT.
- C. ACCESSORIES:
 1. SILICONE SEALANT: DOW CORNING 7951, CLEAR COLOR.
 2. SETTING BLOCKS: COMPATIBLE WITH SILICONE SEALANTS; 70-90 SHORE A HARDNESS.
 3. SPACERS: COMPATIBLE WITH SILICONE SEALANT.
 4. GLAZING TAPE: TREMCO "DOY" SPONGE, OR APPROVED.
 5. GLAZING FILM: 3M "BLOKOUT" 3635-2015, OR EQUIVALENT PERFORMANCE FILMS (LUNAR WINDOW FILMS "NEW M P3"; ZERO VISIBLE LIGHT TRANSMITTANCE; PRESSURE-SENSITIVE ADHESIVE.
- D. FABRICATION:
 1. INSULATING GLASS UNITS:
 - a. DUAL LIFE UNITS FABRICATED FROM GLASS AS SCHEDULED; 1/2 INCH NOMINAL AIRSPACE; DUAL SEAL SYSTEM.
 - b. TRIM SEALS: POLYISOBUTYLENE PRIMARY SEAL AND SILICONE SECONDARY SEAL. OUTER SEAL SHALL BE COMPATIBLE WITH GLAZING SYSTEM.
 - c. SPACER BAR: WILL FINISH ALUMINUM. FILL WITH DESICCANT; CORNERS SHALL BE PARTIALLY MITER CUT AND BENT (NOT CUT THROUGH), OR FORMED WITH CORNER KEYS ULTRASONICALLY SOLDERED IN PLACE.
 - d. CERTIFIED THROUGH THE INSULATING GLASS CERTIFICATION COUNCIL (IGCC) IN ACCORDANCE WITH ASTM E773 AND E774; CERTIFIED TO LEVEL CBA.
 - e. EACH PEECE SHALL BE CERTIFICATION NUMBER, DATE, AND MANUFACTURER'S IDENTIFICATION MARK.
 2. TEMPERED AND HEAT STRENGTHENED GLASS:
 - a. TEMPERED GLASS: GLASS WHICH HAS BEEN HEAT TREATED TO STRENGTHEN GLASS IN BENDING TO NOT LESS THAN 4 TIMES THE ANNEALED STRENGTH; CERTIFIED SAFETY GLASS IN ACCORDANCE WITH ANSI Z97.1.
 - b. HEAT STRENGTHENED GLASS: ASTM C1048; GLASS WHICH HAS BEEN HEAT TREATED TO STRENGTHEN GLASS IN BENDING TO NOT LESS THAN 2 TIMES ANNEALED STRENGTH.
 - c. FABRICATE TEMPERED AND HEAT STRENGTHENED GLASS UNITS SO THAT PRINCIPLE DISTORTION WILL BE IN THE HORIZONTAL DIRECTION IN THE FINISHED INSTALLATION.
 - d. UNLESS OTHERWISE APPROVED BY THE BUILDING OFFICE, PROVIDE MANUFACTURER'S LABEL ON EACH LIGHT, INDICATING TYPE AND THICKNESS OF GLASS.
 - e. COMPLY WITH IBC REQUIREMENTS FOR IDENTIFICATION AND LABELING OF SAFETY-GLAZING MATERIALS IN HAZARDOUS LOCATIONS SUBJECT TO HUMAN IMPACT LOADS.
- E. LOW E COATING: HIGH PERFORMANCE TYPE; APPLIED BY USING SPUTTERED DEPOSITION TECHNOLOGY.
 1. BASIS OF DESIGN: PPG (PITTSBURGH) PA; 412-434-2858 "SOLARBAN 60."
 2. ACCEPTABLE SUBSTITUTION: VIBACON (OTAWAMA MN; 800,533,2080) "SOLARGREEN 2000"
- F. PREPARATION:
 1. CLEAN CONTACT SURFACES AND WIFE DRY.
 2. SEAL FRAME CORNER JOINTS, AND OTHER LEAKAGE POINTS WITH SEALANT. AT INSULATING GLASS UNITS THE SEALANT SHALL BE COMPATIBLE WITH THE SEAL OF THE UNIT. DO NOT PLOG WEEP HOLES.
 3. PRIME SURFACES SCHEDULED TO RECEIVE SEALANT, UNLESS OTHERWISE RECOMMENDED BY THE SEALANT MANUFACTURER.
- G. INSTALLATION:
 1. UNLESS SPECIFIED OTHERWISE, GLAZE IN ACCORDANCE WITH THE CURRENT EDITION OF GLASS ASSOCIATION OF NORTH AMERICA (GANA) GLAZING MANUAL.
 2. SETTING BLOCKS: PLACE SETTING BLOCKS IN FRAMES FOR SUPPORT OF GLASS. PLACE AT QUARTER POINTS UNLESS APPROVED OTHERWISE.
 3. SET GLASS TIGHTLY IN POSITION WITH PROPER CLEARANCES IN ACCORDANCE WITH THE REFERENCED STANDARD.
 4. UNLESS SPECIFIED OTHERWISE, GLAZE UNITS WITH GASKETS FURNISHED WITH THE FRAMING SYSTEMS SPECIFIED IN OTHER SECTIONS.
 5. GLAZING FOR INTERIOR NON-RATED DOORS AND WINDOWS, WHERE GASKETS ARE NOT FURNISHED:
 - a. GLAZE WITH GLAZING TAPE.
 - b. PRE-MEASURE AND CUT TAPE TO REQUIRED LENGTHS; ADHERE TO FIXED STOPS, SETTING HORIZONTAL TAPE AT HEADS AND SILLS BEFORE VERTICAL TAPE.
 - c. INSTALL TAPE WITH TIGHT BUTT JOINTS; NO OVERLAPS WILL BE ACCEPTED. SET TAPE WITH STRAIGHT LINES LEVEL WITH FRAME SIGHT LINE.
 - d. POSITION GLASS, UNIFORMLY SEALING AGAINST TAPE. INSTALL INSIDE REMOVABLE STOPS AND PLACE TAPE IN STOPS FORMING A UNIFORM SEAL AGAINST GLASS, LEVEL WITH SIGHT LINES.
 6. GLAZING FOR FIRE RATED DOORS AND WINDOWS: GLAZE IN ACCORDANCE WITH NFPA 80, UNLESS OTHERWISE OTHERWISE BY THE LABELING REQUIREMENT OF THE FRAME.
 7. ADJUST GLAZING MATERIALS TO FORM A UNIFORM SIGHT LINE.
- H. SCHEDULE:
 1. TYPE 1: CLEAR 1/4 INCH THICK GLASS. PROVIDE TEMPERED WHERE INDICATED AND SPECIFIED.
 2. TYPE 2: INSULATING GLASS, DOUBLE GLAZED UNITS WITH 1/2 INCH AIR SPACE BETWEEN TWO PANES OF 1/4 INCH GLASS; OUTER PANE SHALL BE HEAT STRENGTHENED OR TEMPERED GLASS WITH LOW-E COATING ON #2 SURFACE; INNER PANE SHALL BE CLEAR GLASS. PROVIDE TEMPERED WHERE INDICATED AND SPECIFIED. WHEN NOT REQUIRED BY CODE TO BE PROVIDED, ANNEALED, HEAT-STRENGTHENED OR TEMPERED GLASS AS DETERMINED BY GLASS MANUFACTURER'S GLASS ANALYSIS.
- I. PROVIDE TEMPERED GLASS IN HAZARDOUS LOCATIONS TO MEET THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.

DIVISION 9 FINISHES

- 092000 LIGHT-GRADE METAL SUPPORT FRAMING**
- A. SYSTEM DESCRIPTION:
 1. STRUCTURAL DESIGN:
 - a. SELECT FRAMING SYSTEMS, GAGES, SUPPORTS, BRACING, AND CONNECTIONS AS NECESSARY TO MEET THE STRUCTURAL REQUIREMENTS SPECIFIED.
 - b. PARTITION FRAMING SHALL CONFORM TO THE WIDTHS INDICATED, UNLESS APPROVED OTHERWISE. PROVIDE THICKER GAGES AND DECREASED STUD SPACING AS NECESSARY TO MEET THE DESIGN REQUIREMENTS.
 2. DESIGN LOADS:
 - a. INTERIOR CEILING ASSEMBLIES: 5 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD, PLUS DEAD LOADS.
 - b. INTERIOR PARTITIONS: 5 POUNDS PER SQUARE FOOT UNIFORM LIVE LATERAL LOAD.
 - c. EXTERIOR SOFFITS: 25 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD.
 - d. SEISMIC LOADS: CONFORM TO THE REQUIREMENTS OF THE UNIFORM BUILDING CODE, SEISMIC ZONE 3.
 3. DEFLECTION REQUIREMENTS: MAXIMUM OF 1/240 THE SPAN, EXCEPT MAXIMUM 1/360 AT TILE.

- B. CODE REQUIREMENTS:
 1. PROVIDE ASSEMBLIES MEETING THE HOURLY FIRE RATINGS INDICATED AND SPECIFIED. ASSEMBLIES SHALL BE TESTED IN ACCORDANCE WITH ASTM E119, AND SHALL BE APPROVED BY THE LOCAL JURISDICTIONAL CODE AUTHORITIES. COORDINATE INSTALLATION OF OTHER MATERIALS WHICH ARE A PART EACH ASSEMBLY.
 2. FIRE RATING REQUIREMENTS TAKE PRECEDENCE OVER THE CONSTRUCTION REQUIREMENTS INDICATED. IN THE EVENT OF CONFLICT, NOTIFY THE ARCHITECT, AND DO NOT BEGIN CONSTRUCTION IN THE AREA OF CONFLICT UNTIL THE CONFLICT HAS BEEN RESOLVED.
 3. PROVIDE ALL CALCULATIONS, DRAWINGS, PRODUCT DATA,

- d. USE A TRIM AT EXPOSED GYPSUM BOARD EDGES (INCLUDING LIGHT COVES) WHERE SEALANT JOINT IS INDICATED.
7. CONTROL JOINTS:
 - a. POSITION CONTROL JOINTS TO INTERSECT LIGHT FIXTURES, AIR DIFFUSERS, DOOR OPENINGS, AND OTHER AREAS OF STRESS CONCENTRATION.
 - b. POSITION CONTROL JOINTS AT LOCATIONS WHERE EXPANSION OR CONTROL JOINTS OCCUR IN THE BUILDING STRUCTURE.
 - c. LOCATE CONTROL JOINTS TO FORM RECTANGULAR OR SQUARE SECTIONS, IN "1," "1 1/2," "1," OR OTHER IRREGULARLY SHAPED AREAS.
8. FINISHING:
 - a. PROVIDE FINISHING IN ACCORDANCE WITH CA 214.
 - b. WHERE NECESSARY TO SAND, DO SO WITHOUT DAMAGING THE FACE OF THE GYPSUM BOARD.
 - c. LEVELS OF FINISH:
 - 1) LEVEL 5: PROVIDE AT THE FOLLOWING LOCATIONS:
 - a) SURFACES PERPENDICULAR AND ADJACENT TO OR NEAR (WITHIN 24 INCHES OF) EXTERIOR WINDOWS, AND SURFACE MOUNTED LIGHT FIXTURES.
 - b) SURFACES TO RECEIVE DEEP TONE COLORS.
 - 2) LEVEL 4: PROVIDE UNLESS INDICATED OR SPECIFIED OTHERWISE.
 - 3) LEVEL 3: PROVIDE AT THE FOLLOWING LOCATIONS:
 - a) SURFACES TO RECEIVE FABRIC WALL COVERING.
 - b) SURFACES TO RECEIVE TEXTURED FINISHES.
 - 4) LEVEL 2: PROVIDE AT THE FOLLOWING LOCATIONS:
 - a) STORAGE ROOMS.
 - b) MECHANICAL ROOMS.
 - c) JANITORY CLOSETS.
 - d) SURFACES TO RECEIVE TILE OR OTHER THICK FINISH MATERIALS APPLIED TO GYPSUM BOARD SURFACES.
 - 5) LEVEL 1: PROVIDE AT THE FOLLOWING LOCATIONS:
 - a) SURFACES OF FIRE RATED ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK (TIRE-TAPPING).
 - b) SURFACES OF ACOUSTICAL ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK.
 - 6) LEVEL 0: PROVIDE AT THE FOLLOWING LOCATIONS:
 - a) SURFACES OF NON-FIRE RATED ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK, INCLUDING SURFACES TO BE COVERED BY CASEWORK, WOOD PANELING.
 - d. LEVEL 4 AND 5 FINISHES: RETURN TO THE SITE AFTER PRIMER IS APPLIED AND TOUCH-UP SURFACE DEFECTS.

03000 TILE

- A. SUMMARY:
 1. INTERIOR WALL TILE.
 2. INTERIOR FLOOR TILE.
 3. TILE BACKER BOARD.
 4. SCREEDS.
 5. SEALER.
- B. SUBMITTALS:
 1. SAMPLES:
 - a. TILE: SUBMIT SAMPLES OF EACH TYPE AND COLOR OF TILE. INCLUDE REPRESENTATIVE RANGE OF COLORS AND FINISHES TO BE EXPECTED.
 - b. GROUT: SUBMIT CURED SAMPLES OF EACH GROUT COLOR. FURNISH 2 CURED SAMPLES OF APPROVED GROUT COLORS TO THE EXPANSION JOINT SEALER INSTALLER FOR COLOR MATCHING.
 - c. SCREEDS: SUBMIT SAMPLES OF EACH TYPE AND FINISH OF SCREED, MINIMUM 3 INCH LENGTH.
 - d. PRODUCT DATA: SUBMIT FOR EACH TYPE OF TILE, GROUT, ADHESIVE, ADDITIVE, ACCESSORY, AND MEMBRANE SPECIFIED.
 2. SHOP DRAWINGS: INDICATE GENERAL LAYOUT, SURROUNDING CONSTRUCTION, LOCATION OF EXPANSION JOINTS IN SUBSTRATES AND TILE FIELDS, EDGE DETAILS, AND SPECIAL CONDITIONS.
 4. SCHEDULE: SUBMIT A SCHEDULE OF EACH TILE TYPE, GROUT, AND JOINT WITH COMBINATION PROPOSED.
- C. QUALITY ASSURANCE:
 1. CONFORM TO ANSI STANDARD SPECIFICATIONS FOR THE INSTALLATION OF CERAMIC TILE.
- D. TILE:
 1. TILE TYPES: TYPES AS INDICATED ON THE DRAWINGS.
 2. SPECIAL SHAPES: UNLESS OTHERWISE INDICATED OR SPECIFIED, FURNISH SPECIAL SHAPES AS STANDARD WITH THE TILE MANUFACTURER FOR UNIFORM TRANSITIONS AND CONCEALED EDGES IN THE FINISHED INSTALLATION. SPECIAL SHAPES INCLUDE BULLNOSES, DOUBLE BULLNOSES, CORNER BULLNOSES, AND LOUVE ASSEMBLIES.
- E. ACCESSORY MATERIALS:
 1. SETTING MATERIALS:
 - a. THINSET MORTAR: "KERABOND" WITH "UNIVERSAL KERALASTIC" BY MAPEI CORP., "211 CRETE FILLER POWDER" WITH 4237 LATEX THIN-SET MORTAR ADDITIVE, BY LATICRETE INTERNATIONAL, INC., HYDROBOND TILE-MATE PREMIUM" WITH "447 FLEX-A-LASTIC" BY BOSTIK, OR APPROVED.
 - b. RAPID-SET THIN BED MORTAR: "GRAN/RAPID" WITH "XER 318" FLEXIBLE ADJUTIVE" BY MAPEI CORP., HYDROBOND "SINGLE FLEX FS," BY BOSTIK, OR "211 CRETE FILLER POWDER" WITH "4237 LATEX THIN-SET MORTAR ADDITIVE" AND "101 RAPID SET LATEX/PROPORTIONS AS RECOMMENDED BY THE MANUFACTURER FOR THE SETTING TIME REQUIRED," BY LATICRETE INTERNATIONAL, INC.
 2. EPOXY GROUT: MAPEI "KERAPoxy," HYDROBOND "COLOR-POxy," BY BOSTIK, LATICRETE INTERNATIONAL, INC. "LATAPoxy SP100," OR APPROVED. COLORS AS SELECTED FROM MANUFACTURER'S STANDARD.
 3. HIGH HEAT GROUT: TEC ACCOLOR EPIMORPH SPECIAL EFFECTS GROUT. <https://www.tec-specialty.com/products/grouts/accolor-epx-epoxy-special-effects-grout/>
 4. TILE BACKER BOARD AND ACCESSORIES:
 - a. BOARD: 1/2 INCH NOMINAL THICKNESS AGGREGATED PORTLAND CEMENT PANEL, REINFORCED WITH GLASS FIBER MESH: "WONDERBOARD" BY CUSTOM BUILDING PRODUCTS (800-272-8786), "DURROCK INTERIOR" BY USG, AND GEORGIA PACIFIC "DENS-SHIELD," OR APPROVED.
 - b. TAPE FOR GLASS MESH BOARD: OPEN WEAVE GLASS MESH JOINT TAPE, SELF-ADHESIVE, 2-1/2 INCHES WIDE.
 - c. FASTENERS: AS RECOMMENDED BY THE BACKER BOARD MANUFACTURER; THREAD FORMING SELF-DRILLING WATER HEAD SCREWS; POLYMER COATED OR ZINC PLATED; USE "TORX" SCREWS. "TUCK-ON" OR APPROVED.
 5. CRACK ISOLATION MEMBRANE: ONE OF THE FOLLOWING:
 - a. "NOBLESEAL CSC," BY THE NOBLE COMPANY; REINFORCED CPC SHEET MEMBRANE, 36" WIDTH; NOBLESDON 21 ADHESIVE.
 - b. "DAL-SEAL CSC," BY DAL-TILE CORP.
 - c. "EGB MEMBRANE," BY N.A.C. PRODUCTS INC.; SELF BONDING REINFORCED MODIFIED ASPHALT SHEET MEMBRANE, 36" WIDTH.
 - d. "MAPELASTIC SM" BY THE MAPEI CORP.
 6. METAL SCREED: AS MANUFACTURED BY SÖLDTHER SYSTEMS, INC. (800/225-8802), OR CERAMIC TOOL COMPANY, (800/226-5230); STAINLESS STEEL TILE EDGING TRIM; SIZES AS REQUIRED FOR INSTALLATION OF TOP OF SCREED FLUSH WITH TOP OF TILE.
- F. PREPARATION:
 1. CLEAN SUBSTRATE SURFACES FREE OF GREASE, DIRT, DUST, ORGANIC IMPURITIES, AND OTHER MATERIALS WHICH WOULD IMPAIR BOND.
 6. CRACK ISOLATION MEMBRANE:
 1. INSTALL CRACK ISOLATION MEMBRANE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, UNLESS INDICATED OR SPECIFIED OTHERWISE.
 2. PROVIDE CRACK ISOLATION MEMBRANE AT FOLLOWING LOCATIONS:
 - a. AT CONTROL AND CONSTRUCTION JOINTS IN CONCRETE FLOORS.
 - b. AT CHANGES IN SUBSTRATE MATERIALS.
 - c. ON EACH SIDE OF BUILDING FLOOR JOINT COVER ASSEMBLIES INSTALLED IN GROUVED POCKETS; EXTEND A MINIMUM OF 12 INCHES BEYOND GROUVED POCKET.
 - d. SHRINKAGE CRACKS 1/16 INCH OR LARGER IN SLABS.
 3. EXTEND A MINIMUM OF 12 INCHES EACH SIDE OF CRACK OR JOINT.
 4. DO NOT APPLY CRACK ISOLATION MEMBRANE AT JOINTS WHICH WILL BE REFLECTED AS EXPANSION JOINTS IN THE TILE.
 5. SUBSTRATE EXAMINATION:
 - a. SUBSTRATES ARE SUBJECT TO EXAMINATION BY THE OWNER AND THE ARCHITECT PRIOR TO INSTALLATION OF TILE OR SLAB LEVELING MATERIALS. FURNISH A MINIMUM OF 7 DAYS NOTICE.
 - b. THE EXAMINATION WILL DETERMINE THE NEED FOR ADDITIONAL CRACK ISOLATION MEMBRANE AT SHRINKAGE CRACKS AND OTHER SPECIAL CONDITIONS.
- H. SLAB LEVELING
 1. PRIOR TO INSTALLATION OF THINSET FLOOR TILE, WHERE LOCAL IRREGULARITIES IN THE SUBSTRATE SURFACE WOULD PREVENT LEVEL INSTALLATION OF THE TILE, THE SUBSTRATE SHALL BE BROUGHT TO PLANE SURFACE WITH VARIATIONS NOT TO EXCEED 1/8 INCH IN 4 FEET (CUMULATIVE) AND 1/4 INCH IN 10 FEET (NON-CUMULATIVE). SMOOTH ABRUPT CHANGES IN PLANE.
 2. USE THINSET MORTAR OR OTHER FILLER FOR SLAB LEVELING. OTHER FILLERS ARE SUBJECT TO ENDORSEMENT BY THE SETTING MORTAR MANUFACTURER. SUBMIT MANUFACTURER'S LETTER OF APPROVAL TO THE ARCHITECT, AND THE OWNER'S REPRESENTATIVE.
 3. SCREED OR FLOAT TO APPROPRIATE THICKNESS AND SPECIFIED SURFACE TOLERANCE. ALLOW TO SET PRIOR TO PROCEEDING WITH INSTALLATION. DO NOT EXCEED THE MAXIMUM THICKNESSES FOR THIN BED MORTAR AS RECOMMENDED BY THE MANUFACTURER.
- I. TILE BACKER BOARD INSTALLATION:
 1. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE SHIMS AS NECESSARY TO ALIGN BACKER BOARD WITH ADJACENT SUBSTRATES.
 2. INSTALL UNITS WITH EDGES FIRMLY SUPPORTED.
 3. SCREWS ATTACH UNITS WITH 1 INCH LONG DRYWALL SCREWS SPACED 6 INCHES ON CENTER ALONG FRAMING.
 4. INSTALL FIBERGLASS REINFORCING TAPE AT JOINTS BETWEEN PANELS. COMPLETELY EMBED IN A THIN SET MORTAR BED. TROWEL MORTAR SMOOTH WITH ADJACENT SURFACES.
- J. INSTALLATION OF TILE:
 1. INTERIOR FLOOR APPLICATION – THINSET OVER CONCRETE SUBSTRATE AND CONCRETE SUBSTRATES WITH WATERPROOF MEMBRANE.
 - a. TCM SYSTEM: F113 OR F122 AT WATERPROOF MEMBRANES.
 - b. INSTALLATION STANDARD: ANSI A108.1.
 - c. SETTING MATERIALS: THINSET MORTAR; 3/32 INCH MINIMUM THICKNESS.
 2. WALL APPLICATION – GYPSUM BOARD SUBSTRATE:
 - a. TCM SYSTEM: SIMILAR TO W243.
 - b. INSTALLATION STANDARD: ANSI A108.5.
 - c. SETTING MATERIALS: THINSET MORTAR.
 3. WALL APPLICATION – TILE BACKER BOARD:
 - a. TCM SYSTEM: SIMILAR TO W244.
 - b. INSTALLATION STANDARD: ANSI A108.5.
 - c. SETTING MATERIALS: THINSET MORTAR.
 4. JOINT PATTERN:
 - a. LAY OUT TILE PATTERN PRIOR TO COMMENCING TILE INSTALLATION.
 - b. ACCURATELY LOCATE GROUT JOINTS ON LINES INDICATED; WHERE NOT INDICATED, ADJUST GROUT JOINTS WITHIN SPECIFIED TOLERANCES TO MINIMIZE USE OF CUT TILES AT FIELD EDGES.
 - c. WHERE CUT TILES ARE NECESSARY, POSITION TILE SUCH THAT CUT TILE AT EACH EDGE OF EACH RECTILINEAR FIELD IS NOT LESS THAN HALF OF A FULL SIZE UNIT, UNLESS INDICATED OTHERWISE.
 5. TILES SHALL BE BLENDEND AS REQUIRED TO AVOID PATTERN REPEATS AND "PATCHES" OF ADJOINING TILES OF DISTINCTIVE COLOR OR CHARACTER WITHIN EACH FIELD AREA. COORDINATE DISTRIBUTION OF TILES WITH THE ARCHITECT.
 6. TILES WHICH EXHIBIT DIRECTIONAL PATTERNS SHALL BE SET WITH GRAIN DIRECTION AS INDICATED ON THE SHOP DRAWINGS, OR, IF NOT INDICATED, AS DIRECTED BY THE ARCHITECT.
 7. INSTALL TILES ADJINED WITH ADJACENT FINISHES, WHERE INDICATED. PROVIDE MORTAR FILL AS NECESSARY FOR PROPER ALIGNMENT.

8. CLEAN JOINTS OF MORTAR TO MINIMUM DEPTH OF 1/4 INCH TO ALLOW SUBSEQUENT GROUT INSTALLATION.
9. PROVIDE TEMPORARY SETTING BUTTONS AND SHIMS AS NECESSARY TO MAINTAIN A WALL TILE IN POSITION UNTIL SETTING MORTAR HAS SET TO TOLERANCES:
 - a. JOINT WIDTH VARIATION: PLUS OR MINUS 25% OF THE PROPOSED JOINT WIDTH.
 - b. TAPER: PLUS OR MINUS 25% FROM ONE END TO THE OTHER.
 - c. NO PORTION OF A TILE SURFACE SHALL VARY MORE THAN 1/16 INCH ABOVE OR BELOW AN ADJACENT TILE SURFACE.
 - d. INSTALL TILE FIELDS LEVEL TO WITHIN TOLERANCE SPECIFIED FOR FINISHED SUBSTRATE.
11. SPECIAL REQUIREMENTS FOR LARGE FORMAT TILES (8 X 8 INCH SIZE OR LARGER):
 - a. WASH BACKS OF EACH TILE TO REMOVE DUST AND SOIL THAT WOULD COMPROMISE ADHESION.
 - b. DAMPEN SUBSTRATE AS NECESSARY TO PREVENT EXCESSIVE SUCTION.
 - c. KEY THE MORTAR INTO THE SUBSTRATE WITH THE FLAT SIDE OF THE TROWEL.
 - d. COMB MORTAR OVER THE PREVIOUSLY KEVED SUBSTRATE IN ONE DIRECTION USING THE NOTCH SIDE OF THE TROWEL.
 - e. FIRMLY PRESS EACH TILE INTO THE MORTAR. PRESS DOWN AND MOVE THE TILE BACK AND FORTH PERPENDICULARLY ACROSS THE RIDGES APPROXIMATELY 1/8 TO 1/4 INCH TO FLATTEN THE RIDGES AND FILL IN THE VALLEYS OF THE COMBED MORTAR.
 - f. SET TILES IN ACCURATE ALIGNMENT.
12. SCREED INSTALLATION:
 - a. INSTALL SCREEDS AT TILE FIELD EDGES AT THE LOCATIONS INDICATED.
 - b. ACCURATELY CUT TO LENGTH FOR FLUSH TIGHTLY BUTTED JOINTS. PROVIDE MITER CUT ANGLE JOINTS. REMOVE BURRS AT FIELD EDGES.
 - c. INSTALL IN LONGEST POSSIBLE LENGTHS, EXCEPT THAT NO SCREED SECTION SHALL BE LONGER THAN 12 FEET OR SHORTER THAN 4 FEET IN LENGTH FOR CONTINUOUS RUNS GREATER THAN 16 FEET.
 - d. INSTALL SCREEDS FREE FROM BIRDS AND VARIATIONS IN HEIGHT. FLUSH WITH TOP OF ADJACENT TILE SURFACES.
 - e. SET SCREEDS DIRECTLY IN SETTING BED AS THE TILE INSTALLATION PROCEEDS. COMPLY WITH SCREED MANUFACTURER'S INSTRUCTIONS TO ACHIEVE MORTAR TIGHTLY COMPACTED BETWEEN SCREED AND TILE EDGE.
 - f. GRIND SCREED JOINTS AS NECESSARY TO CORRECT MINOR MISALIGNMENT AND TO EASE SHARP OUTSIDE CORNERS.

K. GROUTING:

1. COMPLY WITH PROVISIONS OF ANSI A108.10.
2. MIX GROUTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. GROUT JOINTS, EXCEPT EXPANSION JOINTS, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. FLOAT JOINTS TO A SLIGHTLY CONCAVE PROFILE.
4. REMOVE EXCESS GROUT FROM TILE SURFACES IN ACCORDANCE WITH THE GROUT AND TILE MANUFACTURER'S RECOMMENDATIONS. DO NOT USE EXCESS AMOUNTS OF WATER.
5. PROTECT ADJACENT SURFACES FROM DAMAGE CAUSED BY CLEANING AGENTS. DO NOT USE CLEANERS WHICH WOULD DAMAGE TILE OR GROUT SURFACES.
6. DO NOT GROUT JOINTS INDICATED TO RECEIVE SEALANTS, INCLUDING INSIDE RIGHT ANGLE CORNER JOINTS BETWEEN FLOORS AND WALLS OF COLUMN BASES. GROUT JOINTS PERPENDICULAR TO EXPANSION JOINTS SHALL BE FINISHED FLUSH WITH TILE.
7. CURED GROUT JOINTS SHALL BE MADE FREE OF EFFLORESCENCE, PRIOR TO SEALING.
- L. CURING: CURE INSTALLATION IN ACCORDANCE WITH THE GROUT MANUFACTURER'S RECOMMENDATIONS. PROTECT TILE AND GROUT DURING CURING OPERATIONS.
- M. PROTECTION:
 1. PROTECT TILE INSTALLATIONS FROM DAMAGE.
 2. REPLACE ALL DAMAGED TILES.
- N. CLEANING:
 1. IN ACCORDANCE WITH SECTION 015000 AND SECTION 017100.
 2. COORDINATE FINAL CLEANING WITH WORK OF SECTION 079200. DO NOT BEGIN CLEANING OPERATIONS UNTIL TILE EXPANSION JOINTS SEALANTS ARE FULLY CURED.
 3. PRIOR TO SUBSTANTIAL COMPLETION, WASH AND THOROUGHLY RINSE ALL TILE. LEAVE ALL TILE SURFACES CLEAN.

09213 ACOUSTICAL TILE CEILINGS

- A. SUBMITTALS:
 1. SUBMIT PRODUCT LITERATURE FOR EACH ACOUSTICAL CEILING TILE AND SUSPENSION SYSTEM PROPOSED.
- B. QUALITY ASSURANCE:
 1. CODES: COMPLY WITH THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.
- C. PRODUCTS:
 1. CEILING TILE: AS SCHEDULED ON THE DRAWINGS.
 2. SUSPENSION SYSTEM: EXPOSED T SYSTEM: ASTM GR35, HEAVY DUTY CLASSIFICATION; DIRECT HUNG; EXPOSED "T" DESIGN; FACTORY BAKED ON FINISH TO MATCH ACOUSTICAL PANELS. FURNISH STABILIZER BARS, SPLICES, EDGE AND WALL MOLDINGS, AND OTHER ITEMS AS NECESSARY TO COMPLETE SUSPENDED CEILING GRID SYSTEM.
- D. INSTALLATION:
 1. INSTALL AFTER MAJOR ABOVE-CEILING WORK IS COMPLETE.
 2. INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 3. INSTALL GRID TO PRODUCE FINISHED CEILING TRUE TO LINES AND LEVELS INDICATED, WITHIN THE SPECIFIED TOLERANCES. CENTER SYSTEM ON ROOM AXIS ACCORDING TO REFLECTED CEILING PLANS.
 4. HANGROUGE:
 - a. PROVIDE ALL ANCHORS REQUIRED FOR THE INSTALLATION OF THE CEILING SYSTEM.
 - b. HANG SYSTEM INDEPENDENT OF WALLS, COLUMNS, DUCTS, PIPES AND CONDUIT. WHERE DUCTS OR OTHER EQUIPMENT PREVENT THE REGULAR SPACING OF HANGERS, PROVIDE SECONDARY CARRYING MEMBERS FOR INDIRECT SUPPORT OF THE SUSPENSIONS SYSTEM, OR REINFORCE THE NEAREST ADJACENT HANGERS AND RELATED CARRYING CHANNELS AS REQUIRED TO SPAN THE REQUIRED DISTANCE.
 - c. DO NOT FASTEN TO THE UPPER FLUTES OF METAL BEAMS. DO NOT USE FASTENERS IN STEEL DECK WHICH PENETRATE MORE THAN 1 INCH.
 5. INSTALL EDGE MOLDING AT INTERSECTION OF CEILING AND VERTICAL SURFACES, USING LONGEST PRACTICAL LENGTHS. WATER CORNERS: PROVIDE EDGE MOLDINGS AT JUNCTIONS WITH OTHER INTERRUPTIONS, FABRICATE EDGE MOLDINGS TO FIT THE SURFACES ENDGROUDED.
 6. FIT ACOUSTIC LAY-IN PANELS IN PLACE, FREE FROM DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE AND FUNCTION. FIT BORDER UNITS NEATLY AGAINST ABUTTING SURFACES. SCRIBE AND WAX NECESSARY REGULAR EDGE INTO PARTIAL BORDER UNITS SUPPORTED AT EDGE BY WALL MOLDING.
 7. ADJUST SACS OR TWISTS WHICH DEVELOP IN THE CEILING SYSTEM AND REMOVE PARTS WHICH ARE DAMAGED OR DEFECTIVE.
 8. HOLD-DOWN CLIPS: INSTALL HOLD-DOWN CLIPS WITHIN 20 FEET OF AN EXTERIOR DOOR.
- E. TOLERANCES:
 - a. VARIATION FORM FLAT AND LEVEL SURFACE: 1/8 INCH IN 10 FEET.
 - b. VARIATION FROM PLUMB OF GRID MEMBERS CAUSED BY EXCENTRIC LOADS: TWO DEGREES MAXIMUM.

09245 – LINER WOOD WALL AND SOFFIT PANELS

- SECTION INCLUDES: WOOD SLAT WALL AND SOFFIT SYSTEM.
- B. SUBMITTALS:
 1. PRODUCT DATA: MANUFACTURER'S PRODUCT DATA FOR WOOD SLAT SYSTEM.
 2. SHOP DRAWINGS: INCLUDE LAYOUT, SLAT PROFILES, ALL TYPICAL AND SPECIAL DETAILS, SUSPENSION DETAILS, END CONDITIONS AND TRIM, AND RELATIONSHIP TO ADJACENT CONSTRUCTION.
 3. SAMPLES: SUBMIT APPROXIMATE 8 X 11 INCH SAMPLES OF WOOD SLAT SHOWING PROPOSED WOOD SPECIES AND FINISH. SUBMIT ADDITIONAL SAMPLES AS REQUIRED TO SHOW MAXIMUM RANGE OF COLOR AND GRAIN TO BE EXPECTED.
 4. CERTIFICATES: SUBMIT MANUFACTURER'S CERTIFICATION THAT WOOD MATERIALS MEET THE SPECIFIED FLAME SPREAD REQUIREMENTS.
- C. QUALITY ASSURANCE:
 1. INSTALLER QUALIFICATIONS: APPROVED BY THE WOOD SLAT MATERIALS MANUFACTURER.
- D. DELIVERY, STORAGE, AND HANDLING
 1. DO NOT DELIVER WOOD MATERIALS TO THE BUILDING UNTIL "NET" WORK SUCH AS GYPSUM WALLBOARD WORK HAS BEEN COMPLETED.
- E. PRODUCT CONDITIONS
 1. MAINTAIN UNIFORM 50 – 70 DEGREE F. TEMPERATURE RANGE IN WORK SPACES FOR 24 HOURS PRIOR TO, DURING, AND 24 HOURS AFTER INSTALLATION.
- F. MANUFACTURER:
 1. SHWOOD (SPRINGFIELD OR, 888_767_9990).
- G. COMPONENTS
 1. CEILING SUSPENSION COMPONENTS: FURNISH EXPOSED "T" BAR SYSTEM AS SPECIFIED IN SECTION 095123
 2. WALL ATTACHMENT COMPONENTS: MANUFACTURER'S STANDARD CLIP RAIL AND ATTACHMENT CLIPS. SYSTEM SHALL BE DESIGNED FOR SNAP REMOVAL AND REPLACEMENT OF INDIVIDUAL WOOD SLATS.
 3. WOOD SLATS:
 - a. TYPE: "PANELIZED LINER WOOD GRILLE" 2114-3.
 - b. VERTICAL GRAIN DOUGLAS FIR; SMOOTH TEXTURE.
 - c. SHOP FINISH: NATURAL FINISH; CLEAR INTAINESMENT FINISH; CLASS 1 FIRE RATING; FINISHED 4 SIDES AND EDGES.
 4. TOLERANCES:
 - 1) CROOK: 1/4 INCH IN 8 FEET.
 - 2) WARP: 1/4 INCH IN 8 FEET.
 - 3) TWIST: 1/8 INCH IN 8 FEET.
 4. ACOUSTIC INSULATION: MANUFACTURER'S STANDARD ACOUSTIC FABRIC BACKER.
- H. FABRICATION
 1. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
- I. EXAMINATION
 1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
 2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.
- J. SUSPENSION SYSTEM INSTALLATION
 1. INSTALL SUSPENSION SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN SECTION 095123, AND AS REQUIRED TO ACCOMMODATE WOOD SLAT CEILING SYSTEM.
- K. WOOD SLAT PANEL INSTALLATION
 1. INSTALL WOOD SLAT PANELS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AND IN ACCORDANCE WITH THE LAYOUT APPROVED ON THE SHOP DRAWINGS.
 2. INSTALL LEVEL, FLUSH, PLUMB, AND IN STRAIGHT LINE COURSES WITH EVENLY SPACED JOINTS BETWEEN SLATS.
 3. NEATLY CUT AROUND AND TRIM OPENINGS.
 4. TOLERANCES:
 - a. FLATNESS: FLAT WITHIN A TOLERANCE OF 1/8 INCH IN 12 FEET, WITH NO ABRUPT VARIATIONS.

09600 RESILIENT FLOORING

- A. SUMMARY:
 1. RESILIENT BASE.
- B. SUBMITTALS:
 1. SUBMIT PRODUCT LITERATURE FOR EACH PRODUCT PROPOSED, INCLUDING BASE, RESILIENT FLOORING, TRANSITION STRIPS, AND ADHESIVES.
 2. SUBMITTALS: SUBMIT SAMPLES OF EACH TYPE OF RESILIENT FLOORING, AND EACH TYPE OF RUBBER BASE FOR COLOR SELECTION BY THE INTERIOR DESIGNER.
- C. MATERIALS:
 1. RUBBER BASE:
 - a. MANUFACTURER: ONE OF THE FOLLOWING, SUBJECT TO ARCHITECT'S APPROVAL OF COLOR:
 - 1) ROPPE RUBBER CORP.
 - 2) BURKE FLOORING PRODUCTS / BURKE INDUSTRIES.
 - 3) ALUSIEN RUBBER CORP.
 - b. RESILIENT BASE: ASTM F1861, TYPE TS, 100 PERCENT VALANIZED RUBBER; 1/8 INCH THICK; ROLL STOCK; COVED AND STRAIGHT BASE AS SPECIFIED; 4 INCH HEIGHT, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 - c. ACCESSORIES:
 - 1) PRIMERS AND ADHESIVES: TYPES AS RECOMMENDED BY RESILIENT FLOORING AND BASE MANUFACTURERS FOR SPECIFIC APPLICATION.
 2. RUBBER BASE INSTALLATION:
 1. ADHESIVELY INSTALL RESILIENT BASE TIGHTLY TO WALL AND FLOOR SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 2. FIT JOINTS TIGHT, VERTICAL, AND IN ACCURATE ALIGNMENT. INSTALL BASE IN MAXIMUM LENGTHS, WITH MINIMUM NUMBER OF JOINTS IN EACH RUN. NO SECTION MAY BE SHORTER THAN 48 INCHES, EXCEPT AS REQUIRED BY WALL CONDITIONS.
 3. INSTALL BASE TO WALLS, COLUMNS, AND CASEWORK THE JOBS IN ALL AREAS WHERE RESILIENT BASE IS SCHEDULED.
 4. MITER OR COPE INSIDE CORNERS FOR ACCURATE FIT. SCRIBE AND FIT TO DOOR FRAMES AND OTHER OBSTRUCTIONS.
 5. OUTSIDE CORNERS:
 - a. SCORE BACK OF BASE MATERIAL WITH GROOVING TOOL AND ACCURATELY ALIGN TO CORNER.
 - b. FIRMLY ADHERE TO WALL AT BOTH SIDES OF CORNER, WITH NO VISIBLE GAPS AT TOP OF BASE.
 - c. STRETCH TOE OF COVED BASE FOR SMOOTH TRANSITION AROUND CORNER, WITH TOE IN UNIFORM CONTACT WITH THE FINISH FLOORING.
 6. REMOVE EXCESS ADHESIVE FROM SURFACES WITHOUT DAMAGE.
 3. CLEANING
 1. REMOVE EXCESS ADHESIVE FROM FLOOR, BASE, AND WALL SURFACES WITHOUT DAMAGE.
 2. CLEAN BASE AND FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

- a. MANUFACTURER: ONE OF THE FOLLOWING, SUBJECT TO ARCHITECT'S APPROVAL OF COLOR:
 - 1) ROPPE RUBBER CORP.
 - 2) BURKE FLOORING PRODUCTS / BURKE INDUSTRIES.
 - 3) ALUSIEN RUBBER CORP.
- b. RESILIENT BASE: ASTM F1861, TYPE TS, 100 PERCENT VALANIZED RUBBER; 1/8 INCH THICK; ROLL STOCK; COVED AND STRAIGHT BASE AS SPECIFIED; 4 INCH HEIGHT, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- c. ACCESSORIES:
 - 1) PRIMERS AND ADHESIVES: TYPES AS RECOMMENDED BY RESILIENT FLOORING AND BASE MANUFACTURERS FOR SPECIFIC APPLICATION.

D. RUBBER BASE INSTALLATION:

1. ADHESIVELY INSTALL RESILIENT BASE TIGHTLY TO WALL AND FLOOR SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. FIT JOINTS TIGHT, VERTICAL, AND IN ACCURATE ALIGNMENT. INSTALL BASE IN MAXIMUM LENGTHS, WITH MINIMUM NUMBER OF JOINTS IN EACH RUN. NO SECTION MAY BE SHORTER THAN 48 INCHES, EXCEPT AS REQUIRED BY WALL CONDITIONS.
3. INSTALL BASE TO WALLS, COLUMNS, AND CASEWORK THE JOBS IN ALL AREAS WHERE RESILIENT BASE IS SCHEDULED.
4. MITER OR COPE INSIDE CORNERS FOR ACCURATE FIT. SCRIBE AND FIT TO DOOR FRAMES AND OTHER OBSTRUCTIONS.
5. OUTSIDE CORNERS:
 - a. SCORE BACK OF BASE MATERIAL WITH GROOVING TOOL AND ACCURATELY ALIGN TO CORNER.
 - b. FIRMLY ADHERE TO WALL AT BOTH SIDES OF CORNER, WITH NO VISIBLE GAPS AT TOP OF BASE.
 - c. STRETCH TOE OF COVED BASE FOR SMOOTH TRANSITION AROUND CORNER, WITH TOE IN UNIFORM CONTACT WITH THE FINISH FLOORING.
6. REMOVE EXCESS ADHESIVE FROM SURFACES WITHOUT DAMAGE.

E. CLEANING

1. REMOVE EXCESS ADHESIVE FROM FLOOR, BASE, AND WALL SURFACES WITHOUT DAMAGE.
2. CLEAN BASE AND FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

09773 REINFORCED PLASTIC PANEL WALL COVERINGS

- A. SUMMARY: FIBERGLASS REINFORCED POLYESTER PANEL (FRP) WALL COVERING.
- B. SUBMITTALS: PRODUCT DATA.
- C. SYSTEM COMPONENTS:
 1. PANEL MATERIAL:
 - a. MARLITE BRAND CLASS 1 (A) FIRE RATED FRP BY MARLITE (DOVER, OH 330/343-6621), COLOR AS SCHEDULED IN THE FINISH LEGEND.
 - b. PANEL TYPE: FIBERGLASS REINFORCED POLYESTER PANELS, WITH EMBOSSED TEXTURED FACE.
 - c. THICKNESS: 3/32 INCH.
 - d. SIZE: 48 INCHES X LENGTH REQUIRED FOR CONDITIONS INDICATED.
 - e. FIRE RATING: MAXIMUM 25/450 FLAME SPREAD / SMOKE DEVELOPED IN ACCORDANCE WITH ASTM E84.
 2. MOLDINGS: MANUFACTURER'S STANDARD PVC CAP, CORNER, AND DIVISION MOLDINGS; COLOR TO MATCH PANELS. OMIT BOTTOM TRIM WHERE PANEL ABUTS FLASH COVED BASE.
 3. PANEL AND MOLDING INSTALLATION ADHESIVE: AS RECOMMENDED BY THE FRP PANEL MANUFACTURER.
 4. SEALANT: FLEXIBLE WATERPROOF SILICONE SEALANT FOR BEDDING PANEL EDGES; WHITE COLOR.
- D. CUTTING AND FITTING:
 1. CUT PANELS ACCURATELY TO SIZE WITH PROPER ALLOWANCE FOR EXPANSION AND MOLDINGS.
 2. SAND OR FILE ALL EDGES SMOOTH WITHOUT CHIPPING.
 3. CUT OPENINGS FOR PENETRATIONS IN ACCURATE LOCATION WITH APPROXIMATE 1/8-INCH CLEARANCE AROUND PENETRATIONS.
- E. INSTALLATION:
 1. ESTABLISH CENTERLINE OF EACH DISTINCT FLAT AREA TO BE COVERED. TRIM DIVISION MOLDINGS TO MATE WITH BASE MOLDINGS; INSTALL IN SOLID BED OF ADHESIVE, EITHER ON CENTERLINE, OR OFFSET 24 INCHES FROM CENTER, AS NECESSARY TO MAXIMIZE PANEL WIDTH AT CORNERS. MOLDING SHALL BE INSTALLED STRAIGHT AND PLUMB.
 2. CUT TOP CAP AND DIVISION OR CORNER MOLDINGS TO SHAPE, WITH EDGES TRIMMED TO FIT TO ADJACENT MOLDINGS.
 3. APPLY SEALANT INTO INSTALLED MOLDINGS IN SEQUENCE WITH PANEL INSTALLATION.
 4. APPLY ADHESIVE TO BACKS OF PANELS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 5. MAINTAIN LINES AND LEVELS OF PANEL EDGES AND MOLDINGS.
 6. INSTALL PANELS TIGHT TO FLASH-COVED BASE TRIM.
 7. ALLOW 1/8-INCH GAP BETWEEN TOP CAP, CORNER, OR DIVISION MOLDING POSTS, AND PANEL EDGE; ALL EDGES SHALL BE FIRMLY BEDDED TO THE MOLDINGS IN PLACE.
 8. PROMPTLY REMOVE SEALANT SQUEEZE OUT WITH A DAMP CLOTH, AS WORK PROGRESSES; REMOVE ADHESIVE WITH APPROPRIATE SOLVENT.
 9. INSTALL SEALANT BEHIND FLANGES AND AT PENETRATIONS THROUGH PANELS, WITH TOP CAP OF PANEL AND SUBSTRATE.
- F. CLEANING:
 1. REMOVE EXCESS ADHESIVE FROM FACE OF LAMINATE USING SOLVENT RECOMMENDED BY MANUFACTURER.

09800 PAINTING AND COATING

- A. SUMMARY: SITE APPLIED PAINT COATINGS.
- B. REFERENCE STANDARDS:
 1. MASTER PAINTERS INSTITUTE (MPI): ARCHITECTURAL PAINTING SPECIFICATION MANUAL.
 2. STEEL STRUCTURES PAINTING COUNCIL (SSPC).
- C. SUBMITTALS:
 1. MATERIALS LIST: ORGANIZE TO INDICATE PAINTING SYSTEMS TO BE USED WITH EACH SUBSTRATE. INCLUDE MANUFACTURER'S PRODUCT DATA AS REQUIRED TO VERIFY COMPLIANCE WITH THE SPECIFIED REQUIREMENTS. DO NOT INCLUDE MOSS SHEETS.
 2. PAINT SAMPLES:
 - a. SUBMIT SAMPLES OF EACH PAINT FINISH ON AN 8 1/2" CARD. REFERENCE MANUFACTURER, TYPE OF PAINT, COLOR, SHEEN, SUBSTRATE, AND APPLICATION.
 - b. FURNISH ADDITIONAL SAMPLES UNTIL ALL PAINT FINISHES ARE APPROVED.
- D. QUALITY ASSURANCE:
 1. APPLICATOR: COMPANY SPECIALIZING IN COMMERCIAL PAINTING AND FINISHING WITH A MINIMUM OF THREE YEARS DOCUMENTED EXPERIENCE.
 2. VISUAL STANDARDS: EACH DISTINCT AREA OF THE FINISHED WORK SHALL BE FREE OF VARIATIONS IN COLOR AND SHEEN, ORANGE PEEL, RUNS, SAGS, BUBBLING, CHECKING, CRACKING, SCRATCHES, DUST, DIRT, BUGS, AND OTHER CONTAMINANTS.
- E. SITE CONDITIONS:
 1. WEATHER CONDITIONS:
 - a. DO NO EXTERIOR WORK ON UNPROTECTED SURFACES WHEN RAINING, OR OTHER MOISTURE IS PRESENT OR EXPECTED, OR BEFORE APPLIED PAINTS CAN DRY OR ATAIN PROPER CURE.
 - b. ALLOW WETTED SURFACES TO DRY AND ATAIN TEMPERATURES AND CONDITION SPECIFIED HEREINAFTER BEFORE PROCEEDING WITH PREVIOUSLY STARTED WORK.
 2. TEMPERATURE:
 - a. DO NO PAINTING WORK WHEN SURFACE AND AIR TEMPERATURES ARE BELOW 40 DEGREES F OR BELOW THOSE TEMPERATURES RECOMMENDED BY THE MANUFACTURER FOR THE MATERIAL TYPE USED.
 - b. MAXIMUM TEMPERATURES FOR LATEX FINISHES: 45 DEGREES F FOR INTERIOR WORK AND 50 DEGREES F, FOR EXTERIOR WORK, UNLESS APPROVED OTHERWISE.
 3. LIGHTING: MAINTAIN A LIGHTING LEVEL OF MINIMUM 50 FOOT-CANDELES ON THE SURFACES TO BE PAINTED OR FINISHED.
 4. VENTILATION: PROVIDE ADEQUATE CONTINUOUS VENTILATION.
- F. MAINTENANCE:
 1. FURNISH OVERAGE OF PAINT MATERIALS EQUAL TO 10 PERCENT MINIMUM OF QUANTITY OF EACH PAINT AND TRANSPARENT FINISH SYSTEM COMPONENT, COLOR AND SHEEN REQUIRED FOR THE WORK, BUT FURNISH NOT MORE THAN FIVE FULL ONE GALLON CANS, NOR LESS THAN TWO FULL ONE QUART CANS, OF EACH TYPE. OVERRUNS IN EXCESS OF FIVE GALLONS MAY BE FURNISHED TO THE TENANT AT THE CONTRACTOR'S OPTION. OVERAGE SHALL BE TAKEN FROM THE BATCH MIX FURNISHED FOR THE WORK. OVERAGE SHALL BE FURNISHED IN COMPLETELY FILLED, PROPERLY LABELED, SEALED CANS.
- G. MATERIALS:
 1. GENERAL REQUIREMENTS: PAINTS NOT SPECIFICALLY LISTED SHALL BE "FIRST QUALITY" COMMERCIAL PRODUCTS FROM ONE OF THE FOLLOWING:
 - a. BENJAMIN MOORE PAINT COMPANY. (AVAILABLE NATIONALLY)
 - b. PITTSBURGH PAINTS. (AVAILABLE NATIONALLY)
 - c. PRATT & LAMBERT. (AVAILABLE NATIONALLY)
 - d. THE SHERWIN-WILLIAMS COMPANY. (AVAILABLE NATIONALLY)
 - e. ICI PANTS NORTH AMERICA. (AVAILABLE NATIONALLY)
 2. GALVANIZED FERROUS METAL – EPOXY/POLYURETHANE SYSTEM: ONE OF THE FOLLOWING:
 - a. MANUFACTURER: TENECC COMPANY INC. (KANSAS CITY, MO: 816-843-3400).
 - 1) EPOXY PRIMER: "H-BUILD EPOXYLINE E" SERIES 869.
 - 2) POLYURETHANE FINISH COATS: SERIES 1075 "ENDURA-SHIELD F", SATIN SHEEN.
 - b. MANUFACTURER: CARBOLINE COMPANY (ST. LOUIS, MO: 314-644-10

HVAC SPECIFICATION

23 05 01.00 - Common Requirements for HVAC

General

General Provisions of the Contract including General and Supplementary Conditions and General Requirements apply to work of this section.

Scope

The base bid includes furnishing all materials, labor, tools, and equipment and the performance of all work required to install a complete heating and air conditioning system as outlined herein.

Guarantee

The contractor shall provide a guarantee in written form stating that all work under this section shall be free of defective work, materials, or parts for a period of one year from the date of owner acceptance and shall repair or replace at no cost to the owner any such defects occurring within the guarantee period. Contractor shall also state in written form that any items or occurrences arising during the guarantee period will be attended to in a timely manner and will in no case exceed four (4) working days from date of notification by owner.

Quality Assurance

Provide a complete installation in conformance with the following standards:

ASHRAE: American Society of Heating, Refrigerating and Air Conditioning Engineers

NFPA: National Fire Protection Association

SMACNA: Sheet Metal and Air Conditioning Contractors National Association.

Statewide Building Code

IMC: International Mechanical Code

Permits, Fees, Inspections, Laws and Regulations

Permits and fees of every nature required in connection with this work shall be obtained and paid for by this contractor who shall also pay for all the installation fees and similar charges. Laws and regulations, which bear upon or affect the various branches of this work shall be complied with by this contractor and are hereby made a part of this contract. All work, which such laws require to be inspected, shall be submitted to the proper public official for inspection and a certificate of final approval must be furnished.

Work in Existing Spaces

General: Care shall be taken when working in existing spaces so as not to damage existing walls and ceilings where work is being performed.

Ceilings: Where work is being performed above ceilings, and the architectural drawings do not indicate ceiling modifications by the general contractor, it shall be the responsibility of this contractor to remove and replace existing ceilings where work is being performed. In those instances, all repair and installation of new grid, ceiling panels, etc shall be the responsibility of this contractor. Match existing finishes.

Walls & Floors: It shall be the responsibility of this contractor to patch existing walls and floors and match existing finishes where work is being removed or installed and patching is being performed, unless noted otherwise on the architectural drawings.

Tests and Adjustments

No ducts, piping, fixtures or equipment shall be concealed or covered until they have been inspected and approved by the Architect and the inspector who shall be notified by the contractor when the work is ready for inspection.

Work shall be completely installed, tested and leak tight before inspection is required. All tests shall be repeated to the satisfaction of those making the inspection.

23 05 03.00 - Submittals for HVAC

General

Where submittals are required by the Contract Documents, they shall be prepared and supplied in accordance with the Contract Documents. In addition to Division 01, the Contractor is advised to review and comply with the requirements articulated within each Division and within each section of that Division.

Some Divisions may include a division-specific "Submittal Requirements for ..." section. Where this section exists, it articulates additional requirements for submittals that apply to that Division.

The following requirements help to identify, track and keep the project organized for all parties involved. They are necessary to ensure a timely turnaround and an appropriate technical review. Submittals that do not conform to the administrative requirements are rejected and returned, without technical review.

Requirements

Supply submittals for each section: Submittals shall be supplied on a section-by-section and type-by-type basis. For example, independent product data submittals shall be furnished for each section that requires product data submittals. Independent shop drawing submittals shall be furnished for each section that requires shop drawings. Refer to the specifications for identification of which submittals are required for the project. Separate PDF file packages shall be supplied for each section, for each submittal type, where electronic submittals are required. Each PDF shall represent a single standalone submittal.

Separately bound and identified submittals shall be provided where hardcopies are required.

Include a transmittal: Transmittals shall enumerate each submittal for each section of each type and iteration.

Include cover sheet / title page: The cover sheet shall include the information identified in the contract documents. It shall be included as the first page of each electronic and/or hardcopy document-based submittal. An editable and printable PDF form created with editable fields and specification compliant appearance is available from KLH upon request. It is also downloadable from the KLH website at www.klhengrs.com.

Include an index: The index shall enumerate the contents of the submittal.

Include checklists: Where checklists are included with the specifications, complete and include them within the appropriate submittal. Supply complete submittals: Complete submittals of each type are required. Partial submittals will be rejected. Where a section requires a product data submittal, all product data for that section shall be supplied together, at one time, as one complete submittal. Do not send half the product data as one submittal and the other half as a separate one. When resubmittal is required (e.g. Review and Resubmit) the revised submittal shall be more complete, more accurate and more contract-compliant than its rejected predecessor. The submittal number (for each section and type) shall increment for each subsequent submittal (00 - Original submittal, 01 - First Resubmission, 02 - Second Resubmission, etc...) Resubmittals shall include a copy of the reviewers comments supplied with the prior submittal rejection and shall be amended with a description of the specific action taken to comply with the reviewer's comments. The absence of this on resubmittal is cause for rejection.

Name electronic files to match the submittal ID and cover sheet: The electronic file name of submittals shall match the submittal ID included on the submittals cover page. For example: The original/first product data submittal for Section 234116.00 shall be labeled as "234116.00-PD-00"; the first resubmittal of same shall be labeled "234116.00-PD-01". The original/first shop drawings submittal file for the same section would be labeled "234116.00-SD-00"; the first resubmittal of same shall be labeled "234116.00-SD-01".

Use of Electronic Drawings from the Owner's Design Team

Plan drawings for the Project were created with AutoCAD.

If expressly permitted by the Owner and the terms of the Contract, editable electronic versions of standard-scale, AutoCAD-based plan drawings may be made available for the creation of shop and as-built drawings.

Due to the proprietary nature of internal design systems, editable native-software versions of some drawings, including but not limited to system diagrams and details will not be made available in an editable form. In these cases, electronic versions of the drawings may be made available only in PDF, .JPG or similar non-editable electronic form, at the sole discretion of the Design Professional.

The Request Drawings form can be accessed, filled out and submitted at the following internet address (scroll down to bottom of home page): <http://www.klhengrs.com>.

23 05 29.00 - Hangers and Supports for HVAC Piping and Equipment

General

Support all piping, ductwork and equipment by hangers or brackets. Furnish structural steel members where required to support piping and equipment. No portion of piping or valves shall be supported by equipment.

Ductwork - Support by means of hangers as follows:

Duct Width Hanger Size and Type Max. Spacing
30 or less (#16 gage) 8

A pair of hangers shall be located at every transverse joint and elsewhere according to the table.

23 05 93.00 - Testing, Adjusting and Balancing for HVAC

General

Test, adjust, and balance the following mechanical systems:

Supply air systems
Return air systems,
Exhaust air systems.

Verify temperature control system operation.
Test systems for proper sound and vibration levels.

Quality Assurance
Codes and Standards:
AABC: "National Standards for Total System Balance".
ASHRAE: ASHRAE Handbook, 2011 Applications, Chapter 38, Testing, Adjusting, and Balancing.

Submittals
Certified Reports: Submit testing, adjusting, and balancing reports bearing the seal and signature of the Test and Balance Engineer. The reports shall be certified proof that the systems have been tested, adjusted, and balanced in accordance with the referenced standards; are an accurate representation of how the systems have been installed; are a true representation of how the systems are operating at the completion of the testing, adjusting, and balancing procedures; and are an accurate record of all final quantities measured, to establish normal operating values of the systems. Follow the procedures and format specified below.

Final Report: Upon verification and approval prepare final reports, type written, and organized and formatted as specified below. Submit 2 complete sets of final report to the owner.

Report Format: Report forms shall be those standard forms prepared by the referenced standard for each respective item and system to be tested, adjusted, and balanced.

Qualifications
The contractor shall procure the services of an independent Balance and Testing Agency, approved by the Engineer, and a member of Associated Air Balance Council (AABC) or NEBB, which specializes in the balancing and testing of heating, ventilating and air conditioning systems, to balance, adjust and test all air and water systems and equipment as herein specified. All work by this agency shall be done under direct supervision of a qualified heating and ventilating Engineer employed by this agency. All instruments used by this agency shall be accurately calibrated and maintained in good working order.

Sequencing and Scheduling
Test, adjust, and balance the air systems before hydronic, steam, and refrigerant systems.

Test, adjust and balance air conditioning systems during summer season and heating systems during winter season, including at least a period of operation at outside conditions within 5 deg F wet bulb temperature of maximum summer design condition, and

within 10 deg F dry bulb temperature of minimum winter design condition. Take final temperature readings during seasonal operation.

Check all filters for cleanliness, provide new as required. Check dampers (volume and fire) for correct and locked position, and temperature control for completeness of installation before starting fans. Place outlet dampers in full open position. Lubricate all motors and bearings. Check fan belt tension. Check fan rotation.

Air balance and testing shall not begin until the system has been completed and is in full working order. The contractor shall put all heating, ventilating and air conditioning systems and equipment into full operation and shall continue the operation of same during each working day of testing and balancing. The system shall submit within 30 days after receipt of contract, 8 copies of submittal data for the testing and balancing of the air conditioning, heating, and ventilating systems. The Air Balance and Testing Agency shall provide proof of having successfully completed at least five projects of similar size and scope.

Reference Standards:
The referenced standards shall include the additional cost to change every fan factory installed sheave, pulley and/or belt of in order to obtain the design air flows.

Performing Testing, Adjusting and Balancing
Perform testing and balancing procedures on each system identified, in accordance with the detailed procedures outlined in the referenced standards.

Cut insulation, ductwork, and piping for installation of test probes to the minimum extent necessary to allow adequate performance of procedures.

Patch insulation, ductwork, and housings, using materials identical to those removed.

Seal ducts and piping, and test for and repair leaks.
Seal insulation to re-establish integrity of the vapor barrier.
Mark equipment settings, including damper control positions; valve indicators, fan speed control levers, and similar controls and devices, to show final settings. Mark with paint or other suitable, permanent identification materials.

Retest, adjust, and balance systems subsequent to significant system modifications, and resubmit test results.
23 07 13.00 - Duct Insulation
Provide insulation on all concealed supply, return and outside air ductwork. All liners, insulation and adhesives shall have a flame spread index not more than 25 and a smoke developed index of not more than 50.

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All duct smoke detectors will be furnished by electrical contractor, installed by the HVAC contractor, and wired by the electrical contractor per local codes. HVAC contractor will interlock RTU with smoke detector.

23 31 13.00 - Metal Ducts
Ductwork Materials
Exposed Ductwork Materials: Where ductwork is indicated to be exposed to view in occupied spaces, provide materials which are free from visual imperfections including pitting, seam marks, roller marks, stains and discolorations, and other imperfections, including those which would impair painting. Exposed ductwork which is to be painted shall have paint grip applied.

Sheet Metal: Except as otherwise indicated, fabricate ductwork from galvanized steel sheet, lock forming quality, with G 90 zinc coating and mill phosphatized for exposed locations. Minimum gauge shall be 24.

Miscellaneous Ductwork Materials
Volume Dampers: Provide volume dampers in all branch ducts and as required for balancing to required air flows.

Fittings: Provide radius type fittings fabricated of multiple sections with maximum 15 deg. change of direction per section. Unless specifically detailed otherwise, use 45 deg. laterals and 45 deg. elbows for branch takeoff connections. Where 90 deg. branches are indicated, provide conical type tees.

Duct Sealant: Non-hardening, non-migrating mastic or liquid elastic sealant, type applicable for fabrication/installation detail, as compounded and recommended by manufacturer specifically for sealing joints and seams in ductwork.

Duct Cement: Non-hardening migrating mastic or liquid neoprene based cement, type applicable for fabrication/installation detail, as compounded and recommended by manufacturer specifically for cementing fitting components, or longitudinal seams in ductwork.

Ductwork Support Materials: Except as otherwise indicated, provide hot-dipped galvanized steel fasteners, anchors, rods, straps, trim and angles for support of ductwork.

Flexible Ducts
Either spiral-wound spring steel with flameproof vinyl sheathing, or corrugated aluminum. Unless specifically mentioned, the maximum length of flex duct on the supply equals 5 feet. Flex is not allowed for return, relief or exhaust applications. The flexible ducts indicated for use in the H.V.A.C. system shall conform to the requirements of UL 161 for Class 0 or Class 1 flexible air ducts and shall be so identified.

Where installed in unconditioned spaces other than return air plenums, provide 1" thick 1-1/2 lb. continuous flexible fiberglass sheath with vinyl vapor barrier jacket.

Installation is not permitted above drywall ceilings and inaccessible ceilings.

Fabrication
Shop fabricate ductwork in 4, 8, 10 or 12-ft lengths, unless otherwise indicated or required to complete runs. All ductwork shall be Pittsburgh Construction with a minimum of thickness of 24 gauge. In addition, ductwork used in systems over 3" W.G. shall have dual sealant applied. Shop fabricate ductwork of gauges and reinforcement complying with SMACNA HVAC Duct Construction Standards".

Lined Duct
Fabricate ductwork with duct liner in each section of duct where indicated. Laminate liner to internal surfaces of duct in accordance with instructions by manufacturers of lining and adhesive, and fasten with mechanical fasteners. Duct liner to be 3-lb density for acoustic requirements 1" thick or as noted. Size of ductwork shown on the drawings is free net area, outside dimension of ducts will need to be increased if lined duct is used.

Size of ductwork shown on the drawings is free net area, outside dimension of ducts will need to be increased if lined duct is used.

Duct Liner: Fibrous glass of thickness indicated. 3-lb density. All liners, insulation and adhesives shall have a flame spread index not more than 25 and a smoke developed index of not more than 50.

Duct Liner Adhesive
Duct Liner Fasteners: Comply with SMACNA HVAC Duct Construction Standards.

Installation of Metal Ductwork
General: Assemble and install ductwork in accordance with recognized industry practices which will achieve air-tight (5% leakage for systems rated 3" and under, 1% for systems rated over 3") and noiseless (no objectionable noise) systems, capable of performing each indicated service. Install each run with minimum number of joints. Align ductwork accurately at connections, within 1/8" misalignment tolerance and with internal surfaces smooth. Support ducts rigidly with suitable ties, braces, hangers and anchors of type which will hold ducts true-to-shape and to prevent buckling. Support vertical ducts at every floor.

Sealing: Seal all longitudinal seams, S's and drives and all joints with mastic or cement. Install according to SMACNA standards.

Balancing Dampers: The sheet metal contractor shall be fully responsible for installing balancing dampers in the ductwork, (whether shown on the drawing or not) in order to arrive at the intended air flow. The balancing sub-contractor shall provide direction and assistance in determining locations where dampers are required. Additional dampers, if required shall be installed on no additional cost to the owner.

Wall Penetrations: Seal and pack around all ducts and piping sleeves which pass through walls that extend to bottom side of structure and related walls.

Field Fabrication: Complete fabrication of work at project as necessary to match shop-fabricated work and accommodate installation requirements.

Routing: Locate ductwork runs, except as otherwise indicated, vertically and horizontally and avoid diagonal runs wherever possible. Run ductwork in shortest route which does not obstruct useable space or block access for servicing building and its equipment. Hold ducts close to walls, overhead construction, columns, and other structural and permanent enclosure elements of building. Limit clearance to 1/2" where furring is shown for enclosure or concealment of ducts, but allow for insulation thickness, if any. Where possible, locate insulated ductwork for 1" clearance outside of insulation. Wherever possible in finished and occupied spaces, conceal ductwork from view, by locating in mechanical shafts, hollow wall construction or above suspended ceilings. Do not encase horizontal runs in solid partitions, except as specifically shown.

Coordinate layout with suspended ceiling and lighting layouts and similar finished work.

Electrical Equipment Spaces: Do not route ductwork through transformer vaults and their electrical equipment spaces and enclosures.

Penetrations: Where ducts pass through internal partitions and exterior walls, and are exposed to view, conceal space between construction opening and duct or duct insulation with sheet metal flanges of same gage as duct. Overlay opening on 4 sides by at least 1-1/2". Fasten to duct and substrate.

Where ducts pass through fire-rated floors, walls, or partitions, provide fire dampers and firestopping between duct and substrate, in accordance with requirements of Division-7 Section "Firestopping".

Coordination: Coordinate duct installations with installation of accessories, dampers, coil frames, equipment, controls and other associated work of ductwork system.

Installation of Duct Liner
General: Install duct liner in accordance with SMACNA HVAC Duct Construction Standards. Size of ductwork shown on the drawings is free net area, outside dimension of ducts will need to be increased if lined duct is used.

Store internally lined ductwork up off of the floor. Protect internally lined ductwork from water and dust. "Butter the leading edge of all internal duct lining with the manufacturer's recommended adhesive.

PLUMBING SPECIFICATIONS

GENERAL

THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND INSTRUCTIONS TO BIDDERS SHALL APPLY TO AND BE PART OF THIS SPECIFICATION.

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS.

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CERTIFICATES OF INSPECTION AND APPROVALS REQUIRED.

SCOPE OF WORK

WATER PIPING SYSTEMS
NATURAL GAS PIPING SYSTEMS
SOIL, WASTE, AND VENT PIPING SYSTEMS
PLUMBING FIXTURES
PLUMBING EQUIPMENT
PIPE JOINTS AND CONNECTION
PLUMBING INSULATION
INTERRUPTION OF SERVICES
WARRANTY

GENERAL STANDARDS

THE APPLICABLE PROVISIONS OF THE FOLLOWING STANDARDS SHALL GOVERN:

AMERICAN SOCIETY FOR TEST MATERIALS (ASTM);
AMERICAN STANDARDS ASSOCIATION (ASA);
UNDERWRITERS LABORATORIES (UL);
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA);
2012 INTERNATIONAL BUILDING CODE;
2012 UNIFORM PLUMBING CODE.

THE INSTALLATION OF ALL PLUMBING WORK SHALL CONFORM TO THE APPLICABLE LOCAL PLUMBING CODES AND STATUTES.

EXCAVATION AND BACKFILL

DO ALL EXCAVATION AND BACKFILLING. LAY SEWER AND UNDERGROUND PIPING LINES ON 6" COMPACTED SAND. BACKFILL UNDER BUILDING AND ALL DRIVES, ROADS AND WALKS WITH BANK-RUN GRAVEL.

WATER PIPING SYSTEMS

INTERIOR BACKFLOW PREVENTERS WITH FUNNELS AND DRAINS
DOMESTIC COLD-WATER PIPING
DOMESTIC HOT-WATER PIPING

TRAP PRIMERS FOR FLOOR DRAINS (PROVIDE SHUT-OFF VALVE BEFORE EACH TRAP PRIMER)

INSTALL WATER PRESSURE REGULATORS WHERE NECESSARY TO LIMIT THE INCOMING WATER PRESSURE TO 80 PSI INSIDE THE BUILDING.

INTERIOR WATER PIPING:

TUBE SIZE 2" AND SMALLER: COPPER TUBE.
WALL THICKNESS: TYPE L, HARD-DRAWN TEMPER.
FITTINGS: WROUGHT-COPPER, SOLDER-JOINTS.
TUBE SIZE 2-1/2" AND LARGER: COPPER TUBE.
WALL THICKNESS: TYPE L, HARD-DRAWN TEMPER.
FITTINGS: WROUGHT-COPPER, SOLDER-JOINTS.

REDUCED PRESSURE BACKFLOW PREVENTER (DOMESTIC BUILDING SERVICE):

BACKFLOW PREVENTER (2" AND SMALLER) - PROVIDE AND INSTALL A REDUCED PRESSURE BACKFLOW PREVENTER ON WATER SERVICE MAIN WHERE THE WATER SERVICE ENTERS THE BUILDING. REDUCED PRESSURE BACKFLOW PREVENTER SHALL BE EQUAL TO WATTS SERIES 9190T, AND SHALL BE SIZED EQUAL TO THE SIZE OF THE WATER SERVICE. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE CONBRACO AND WILKINS.

NATURAL GAS PIPING SYSTEMS

BUILDING DISTRIBUTION SYSTEM FROM GAS METER TO GAS-FIRED EQUIPMENT CONNECTIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH WORK PROVIDED BY THE UTILITY COMPANY, INCLUDING TAP FEES, INSTALLATION COSTS, ROAD CUTS, AND BORES IF APPLICABLE.

GAS SERVICE PIPING:

ALL EXTERIOR GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE PLASTIC PIPING APPROVED BY THE LOCAL UTILITY COMPANY.

BUILDING DISTRIBUTION PIPING:

ALL PIPING FROM OUTSIDE NEW FOUNDATION WALL TO GAS FIRED EQUIPMENT CONNECTIONS: BLACK STEEL PIPE.

PIPE SIZE 2" AND SMALLER: BLACK STEEL PIPE

PIPE WEIGHT: SCHEDULE 40

FITTINGS: MALLEABLE IRON THREADED

PIPE SIZE 2-1/2" AND LARGER: BLACK STEEL PIPE

PIPE WEIGHT: SCHEDULE 40

FITTINGS: WROUGHT-STEEL BUTTWELDING

GENERAL: PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING GAS PIPING RUN-OUTS TO ALL GAS-FIRED EQUIPMENT, INCLUDING EQUIPMENT SUPPLIED BY THE HVAC AND ELECTRIC CONTRACTORS. PIPING SHALL BE INSTALLED FULL-SIZE (AS INDICATED ON THE DRAWINGS) TO EACH UNITS GAS INLET CONNECTION, BURNER, REGULATOR, ETC. PLUMBING SUBCONTRACTOR SHALL PROVIDE AND INSTALL GAS COCK AND MAKE FINAL CONNECTIONS. CONNECTIONS TO EACH GAS-FIRED EQUIPMENT ITEM SHALL INCLUDE A DRIP LEG AND SHUTOFF GAS COCK. COMPLY WITH EQUIPMENT MANUFACTURERS INSTRUCTION. FOR CONNECTIONS TO GAS-FIRED ROOFTOP EQUIPMENT, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE ROOF PENETRATION AND SHALL INSTALL THE GAS PIPING THROUGH THE ROOF IN A LOCATION THAT HAS BEEN COORDINATED WITH THE HVAC CONTRACTOR.

SOIL, WASTE AND VENT PIPING SYSTEM

FURNISH AND INSTALL A COMPLETE SOIL, WASTE AND VENT SYSTEM IN THE BUILDING AND ON THE SITE AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.

ABOVE GROUND SOIL, WASTE AND VENT PIPING WITHIN BUILDINGS INCLUDING SOIL STACKS, VENT STACKS, HORIZONTAL BRANCHES, TRAPS, AND CONNECTIONS TO FIXTURES AND DRAINS.

UNDERGROUND BUILDING DRAIN PIPING INCLUDING MAINS, BRANCHES, TRAPS, CONNECTIONS TO FIXTURES AND DRAINS, AND CONNECTIONS TO STACKS, TERMINATING AT CONNECTION TO EXISTING SANITARY SEWER.

INTERIOR PIPING:

CAST IRON SOIL PIPING AND FITTINGS SERVICE WEIGHT ASTM A-74 WITH ASTM C-564 GASKETED JOINTS.

SCHEDULE 40 PVC PIPE AND FITTINGS SHALL BE USED UNDER SLAB. CONTRACTOR SHALL MAINTAIN INTEGRITY OF FIRE RATINGS. PIPING SHALL NOT BE RUN IN PLENUM SPACES AND CONTRACTOR SHALL PROVIDE AND INSTALL INTUMESCENT COLLARS WHEN PENETRATING A RATED WALL, FLOOR, OR OTHER ASSEMBLY.

WASTE AND VENT PIPING 2-1/2" AND UNDER - TYPE "M" COPPER ASTM B88.62.

SOIL, WASTE AND VENT PIPING 3" AND OVER IN SIZE AND ALL UNDERGROUND CAST IRON SOIL PIPING AND FITTINGS, ASTM A-74, SERVICE WEIGHT.

NO-HUB CAST IRON PIPE AND FITTINGS MAY BE USED ABOVE FLOOR FOR SOIL, WASTE, AND VENT PIPING.

PIPING ALIGNMENT SHALL BE AS INDICATED ON THE DRAWINGS USING APPROVED Y BRANCHES OR EIGHT BANDS FOR DIRECTION CHANGES AND SHALL BE SURELY SUPPORTED OR SECURED TO MAINTAIN SUCH ALIGNMENT.

PITCH OF PIPING SHALL BE UNIFORM AT A MINIMUM OF 1/4" PER FOOT FOR BUILDING DRAINS AND AS INDICATED ON THE DRAWINGS FOR SEWERS.

PROTECTION SHALL BE GIVEN ALL FOOTINGS, OTHER STRUCTURAL ELEMENTS DURING UNDERGROUND WORK ADJACENT TO SUCH ITEMS. REFER TO STRUCTURAL DRAWINGS.

VENT ALL FIXTURES, CONNECT BRANCH VENTS TO MAIN VENT RISERS AT LEAST THREE FEET AND SIX INCHES ABOVE VENTED FIXTURES. PITCH VENT LINES BACK TO SOIL OR WASTE PIPE, FREE OF DROPS AND SAGS.

CLEANOUTS SHALL BE FULL SIZE OF PIPE UP TO 4", AND 4" FOR LARGER SIZES. FOR UNDERGROUND AND CONCEALED LINES, PROVIDE CLEANOUTS IN ACCESSIBLE POSITIONS AT EACH RIGHT ANGLE TURN AND AT INTERVALS NOT TO EXCEED FIFTY FEET. IN FLOORS, INSTALL FLUSH WITH FINISH FLOOR WITH EXTENSION PIPE FROM CLEANOUT "Y".

CLEANOUTS

REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR PROJECT SPECIFIC CLEANOUT MANUFACTURERS AND MODELS.

FLOOR DRAINS

JOSAM, SMITH, WADE, ZURN, WATTS, MIFAB, SIOUX CHIEF, OR OATEY

FLOOR DRAIN TO BE ZURN Z415 WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, CAULKED OUTLET, 6" NICKLE BRONZE STRAINER AND PRIMER CONNECTION.

NOTE: ALL FLOOR DRAINS LOCATED IN ROOMS WHICH HAVE TILE FLOORS SHALL HAVE SQUARE STRAINERS.

THE PLUMBING CONTRACTOR SHALL PROVIDE TRAP PRIMERS FOR FLOOR DRAINS, AS INDICATED ON THE DRAWINGS (TP1). TRAP PRIMER SHALL BE EQUAL TO MIFAB MR-500 TRAP PRIMER VALVE.

REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR PROJECT SPECIFIC FLOOR DRAIN MANUFACTURERS AND MODELS.

PLUMBING FIXTURES

REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE.

MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS

PLUMBING EQUIPMENT

REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE.

WATER HEATER - REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE.

CATHODIC PROTECTION

PROVIDE DIELECTRIC INSULATION AT POINTS WHERE COPPER OR BRASS PIPE COMES IN CONTACT WITH FERROUS PIPING, REINFORCING STEEL OR OTHER DISSIMILAR METAL IN STRUCTURE.

SHOCK ABSORBERS

REMOVE SHOCK CONDITIONS FROM ALL PIPING. PROVIDE AND INSTALL SHOCK ABSORBERS ON ALL PIPING SERVING FLUSH VALVE FIXTURES.

VALVES

PROVIDE STOPS ON DOMESTIC WATER SUPPLIES TO ISOLATE HOT AND COLD WATER TO EACH FIXTURE, INCLUDING ALL EQUIPMENT AND EQUIPMENT PROVIDED BY OTHERS.

FIXTURES, ITEM OR UNITS FURNISHED BY THE MANUFACTURER WITH INTEGRAL STOPS OR STOPS SPECIFIED WITH THE FIXTURE ARE CONSIDERED TO BE PROPERLY VALVED OFF AT THE FIXTURES.

ACCESS SHALL BE PROVIDED TO ALL VALVES.

VALVES ON DOMESTIC WATER PIPING SHALL BE BALL VALVES OR BUTTERFLY VALVES DEPENDING ON SIZE.

ALL VALVES INSTALLED ON DOMESTIC WATER PIPING 3" AND SMALLER SHALL BE BALL VALVES.

BALL VALVES - 1 INCH AND SMALLER: 2-PIECE BODY, 600 PSI CWP, 150 PSI SWP, CAST BRONZE BODY, FULL PORT, TEFLON SEATS, BLOWOUT-PROOF STEM, ADJUSTABLE PACKING GLAND, CHROME PLATED BRONZE BALL, WITH SCREWED ENDS, AND VINYL-COVERED STEEL HANDLE. PROVIDE SOLDER ENDS. PROVIDE EXTENDED VALVE STEMS FOR VALVES USED ON INSULATED LINES. PROVIDE EQUAL TO NIBCO SERIES 585-70-NS.

BALL VALVES - 1-1/4 INCH TO 3 INCH: 3-PIECE BODY, 600 PSI CWP, 150 PSI SWP, CAST BRONZE BODY, CONVENTIONAL PORT, TEFLON SEATS, BLOWOUT-PROOF STEM, ADJUSTABLE PACKING GLAND, CHROME PLATED BRONZE BALL, SCREWED ENDS, AND VINYL-COVERED STEEL HANDLE. PROVIDE SOLDER ENDS. PROVIDE EXTENDED VALVE STEMS FOR VALVES USED ON INSULATED LINES. PROVIDE EQUAL TO NIBCO SERIES 590-Y.

BUTTERFLY

CHECK VALVES

SWING CHECK VALVES - CLASS 125, CAST BRONZE BODY AND CAP, HORIZONTAL SWING, Y-PATTERN, WITH A BRONZE DISC, AND HAVING THREADED OR SOLDER ENDS. PROVIDE SOLDER ENDS FOR DOMESTIC HOT AND COLD WATER SERVICE. PROVIDE EQUAL TO NIBCO S-413.

PIPE JOINTS AND CONNECTION

ALL CUTTING AND PATCHING OF FINISHED CONSTRUCTION OF BUILDING SHALL BE PERFORMED BY THIS CONTRACTOR UNDER THE SECTION OF SPECIFICATIONS COVERING THESE MATERIALS.

ANY MINOR ADJUSTMENT IN LOCATION OF ALIGNMENT OF NEW WORK OR TO CONNECT TO EXISTING UTILITIES SHALL BE PERFORMED AS DIRECTED BY THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO THE GROUNDS, WALKS, ROAD, BUILDING, PIPING SYSTEMS, ELECTRICAL SYSTEMS, AND THEIR EQUIPMENT AND CONTENTS, CAUSED BY LEAKS IN THE PIPING SYSTEMS BEING INSTALLED OR HAVING BEEN INSTALLED BY HIM. HE SHALL REPAIR AT HIS EXPENSE ALL DAMAGED SO CAUSED. ALL REPAIR WORK SHALL BE DONE AS DIRECTED BY AND IN SUCH MANNER AS SATISFACTORY TO THE ARCHITECT.

OWNER RESERVES THE RIGHT TO MAKE EMERGENCY REPAIRS AS REQUIRED TO KEEP EQUIPMENT IN OPERATION WITHOUT VOIDING THE CONTRACTOR'S GUARANTEE BOND NOR RELIEVING THE CONTRACTOR OF HIS RESPONSIBILITIES DURING THE BONDING PERIOD.

PLUMBING INSULATION

INSULATE DOMESTIC COLD WATER PIPING, ASSOCIATED FITTINGS AND VALVES WITH 1/2" WALL THICKNESS INSULATION.

INSULATE DOMESTIC HOT WATER PIPING, ASSOCIATED FITTINGS AND VALVES WITH 3/4" WALL THICKNESS INSULATION.

INSULATE DOMESTIC HOT WATER RETURN PIPING, ASSOCIATED FITTINGS AND VALVES WITH 3/4" WALL THICKNESS INSULATION.

INSULATE ABOVE FLOOR HORIZONTAL STORM DRAIN PIPING, ROOF DRAIN PANS, AND VERTICAL PIPING FROM ROOF DRAIN PAN TO THE FIRST HORIZONTAL BEND WITH 1/2" WALL THICKNESS INSULATION.

INSULATE WASTE PIPING ABOVE CEILINGS THAT RECEIVE CONDENSATE WITH 1/2" WALL THICKNESS INSULATION.

INSULATE WASTE PIPING, SUPPLY PIPING, STOPS, AND VALVES UNDER HANDICAP ACCESSIBLE PLUMBING FIXTURES.

FLEXIBLE ELASTOMERIC INSULATION

CLOSED-CELL, SPONGE- OR EXPANDED-RUBBER MATERIALS. COMPLY WITH ASTM C 534, TYPE I FOR TUBULAR MATERIALS AND TYPE II FOR SHEET MATERIALS.

MANUFACTURERS:
ARMSTRONG ARMAFLEX II
RUBATEX R-180-FS
NOMACO K-FLEX

INSULATION SHALL BE LISTED AND LABELED PER ASTM E 84 FOR PLENUM INSTALLATIONS EMPLOYING SLIP ON TECHNIQUES.

JOINTS SHALL BE SEALED WITH ARMSTRONG #520 OR RUBATEX #373 ADHESIVE OR AS REQUIRED BY MANUFACTURER. PIPE INSULATION EXPOSED OUTSIDE SHALL BE COVERED WITH A VINYL WRAP.

FIBERGLASS INSULATION

FIBERGLASS PIPING INSULATION: ASTM C 547, CLASS 1

ENCASE PIPE FITTINGS INSULATION WITH ONE-PIECE PREMOULDED PVC FITTING COVERS.

VAPOR BARRIER MATERIAL: PAPER-BACKED ALUMINUM FOIL, EXCEPT AS OTHERWISE INDICATED, STRENGTH AND PERMEABILITY RATING EQUIVALENT TO ADJOINING PIPE INSULATION JACKETING.

STAPLES, BANDS, WIRES, AND CEMENT, AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED.

ADHESIVES, SEALERS, AND PROTECTIVE FINISHES, AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED.

MANUFACTURERS:
ARMSTRONG WORLD INDUSTRIES, INC.
OWENS-CORNING FIBERGLASS CORP.
KEENE CORP.
CERTANTEED.
JOHNS MANVILLE.

INSULATION FOR HANDICAP ACCESSIBLE FIXTURES

ALL HANDICAP LAVATORY P-TRAP AND ANGLE STOP ASSEMBLIES SHALL BE INSULATED WITH TRAP WRAP PROTECTIVE KIT MANUFACTURED BY PROFLO MODEL PF202WH OR EQUAL. ABRASION RESISTANT, ANTI-MICROBIAL VINYL EXTERIOR COVER SHALL BE SMOOTH. FOR TRAPS, THE INSULATION SHALL HAVE A CLEANOUT NUT CAP TO ALLOW SERVICE TO THE TRAP WITHOUT DISASSEMBLY. FOR STOPS, THE INSULATION SHALL HAVE A LOCK LID THAT PREVENTS TAMPERING BUT ALLOWS ACCESS WITHOUT REMOVAL OF THE INSULATION. FASTENERS SHALL REMAIN SUBSTANTIALLY OUT OF SIGHT.

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS:
PROFLO
TRUEBRO
PLUMBEREX

WATER-HAMMER ARRESTERS

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

AMTROL, INC.
JOSAM COMPANY.
MIFAB, INC.
PRECISION PLUMBING PRODUCTS, INC.
SIOUX CHIEF MANUFACTURING COMPANY, INC.
SMITH, JAY R. MFG. CO.; DIVISION OF SMITH INDUSTRIES, INC.
TYLER PIPE, WADE DIV.
WATTS DRAINAGE PRODUCTS.
ZURN INDUSTRIES, LLC; PLUMBING PRODUCTS GROUP; SPECIFICATION DRAINAGE PRODUCTS.

STANDARD: ASSE 1010 OR PDI-WH 201.

TYPE: METAL BELLOWS OR COPPER TUBE WITH PISTON.
SIZE: ASSE 1010, SIZES AA AND A THROUGH F, OR PDI-WH 201, SIZES A THROUGH F.

INSTALL WATER-HAMMER ARRESTERS IN WATER PIPING ACCORDING TO PDI-WH 201.

INTERRUPTION OF SERVICES

WHEN IT IS REQUIRED TO INTERRUPT EXISTING SERVICES, THIS CONTRACTOR SHALL FIRST NOTIFY THE ARCHITECT THAT AN INTERRUPTION IS REQUIRED. IT SHOULD BE NOTED THAT FACILITIES MUST BE KEPT IN OPERATION AS MUCH AS POSSIBLE.

THIS CONTRACTOR SHALL ADVISE THE ARCHITECT OF THE LENGTH OF TIME THE SERVICE WILL BE INTERRUPTED AND SHALL GET PERMISSION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

WARRANTY

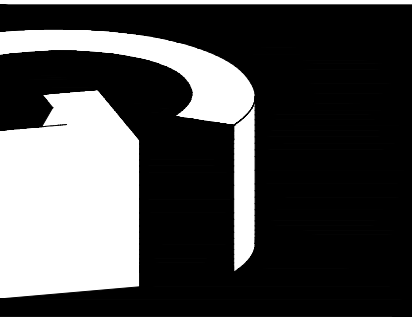
THIS CONTRACTOR SHALL WARRANT THAT ALL WORK UNDER THIS SECTION SHALL BE FREE OF DEFECTIVE WORK, MATERIALS AND PARTS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE WORK AND SHALL REPAIR, REUSE, AND REPLACE, AT NO COST TO THE OWNER, ANY SUCH DEFECTS OCCURRING WITHIN THE WARRANTY PERIOD.

OWNER



2035 158th Ct NE
Suite 200
Bellevue, WA 98008

ARCHITECT OF RECORD



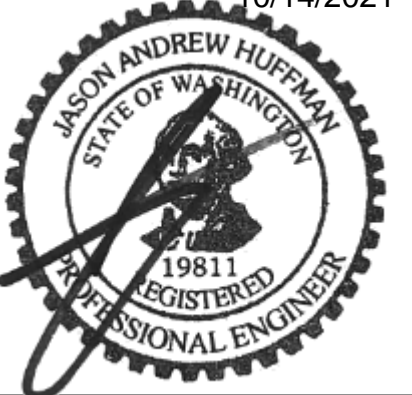
GRAPHITE

Graphite Design Group, LLC
1809 Seventh Ave, #700
Seattle, WA 98101
206.224.3335

CONSULTANT



SEALED 10/14/2021



**DOWNTOWN
KIRKLAND**
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

SP-912

PLUMBING SPECIFICATIONS

SPECIFICATIONS

260500 - COMMON WORK RESULTS FOR ELECTRICAL

A. SCOPE OF WORK

- 1. COMPLY WITH THE GENERAL CONDITIONS OF THIS CONTRACT. THE REQUIREMENTS OF THIS SPECIFICATION ARE IN ADDITION TO THE REQUIREMENTS OF THE GENERAL CONDITIONS.
2. UNLESS OTHERWISE NOTED, PROVIDE DEMOLITION OF EXISTING POWER RECEPTACLES, LIGHT FIXTURES, RACEWAYS, WIRING, VOICE/DATA OUTLETS AND VOICE/DATA CABLING. DEMOLISH FIRE ALARM DEVICES AND WIRING WHERE IN CONFLICT WITH NEW WORK.
3. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACCOMPLISH THE WORK SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.
4. COORDINATE WORK WITH ALL OTHER TRADES.
5. VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
6. REMOVE ALL WASTE AND RUBBISH FROM THE SITE ON A DAILY BASIS.

B. WARRANTY: WORKMANSHIP AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. PROVIDE ADDITIONAL WARRANTY FOR VOICE/DATA SYSTEM AS NOTED ELSEWHERE.

C. REGULATIONS

- 1. ELECTRICAL WORK SHALL COMPLY WITH THE FOLLOWING CODES AS PRESENTLY APPLICABLE:
a. NATIONAL ELECTRICAL CODE (NEC)
b. ENERGY CODE
c. LOCAL AND STATE CODES AND REGULATIONS
2. PERMITS: OBTAIN AND PAY FOR ALL REQUIRED PERMITS.

D. SUBMITTAL AND SHOP DRAWINGS: PRIOR TO INSTALLATION, SUBMIT CATALOG DATA FOR ALL EQUIPMENT AND MATERIALS FOR REVIEW. SUBMIT SHOP DRAWINGS SHOWING COMPLETE TERMINAL-TO-TERMINAL WIRING FOR EACH SIGNAL AND COMMUNICATION SYSTEM. THREE COPIES REQUIRED.

E. OPERATIONS AND MAINTENANCE MANUALS: PROVIDE MAINTENANCE AND OPERATIONS DATA FOR ALL ELECTRICAL EQUIPMENT AND SIGNAL AND COMMUNICATIONS SYSTEMS. THREE COPIES ARE REQUIRED.

F. RECORD DRAWINGS: CORRECTIONS AND CHANGES MADE DURING THE PROGRESS OF THE WORK SHALL BE NEATLY RECORDED AS ACTUALLY INSTALLED FOR AS-BUILT RECORDS. SUBMIT TO THE ARCHITECT UPON PROJECT COMPLETION.

G. CERTIFICATES OF INSPECTION: SUBMIT SIGNED-OFF PERMITS FROM THE CODE ENFORCING AGENCIES TO THE OWNER UPON PROJECT COMPLETION.

H. PRODUCT LISTING OR LABELING: ALL ELECTRICAL EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS LABORATORIES, INC.

I. MATERIAL AND EQUIPMENT: ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS NOTED OTHERWISE. PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE OR CORROSION.

J. CUTTING AND PATCHING: PROVIDE ALL REQUIRED CUTTING AND PATCHING FOR THE ELECTRICAL WORK.

K. EXISTING CONDITIONS

1. GENERAL: SPECIFIC SCOPE OF DEMOLITION WORK AND OPERATING CONDITIONS TO BE ENCOUNTERED SHALL BE VERIFIED BY ON-SITE REVIEW PRIOR TO SUBMITTING BID. DEMOLITION WORK IN GENERAL IS NOTED OR SHOWN ON THE DOCUMENTS BASED UPON AVAILABLE DRAWINGS OF RECORD AND MAY NOT SHOW THE ACTUAL CONDITIONS AS THEY PRESENTLY EXIST.

2. OWNER-RETAINED EQUIPMENT: THE OWNER MAY WISH TO RETAIN CERTAIN SPECIFIC ITEMS SCHEDULED FOR DEMOLITION. THE CONTRACTOR SHALL CAREFULLY REMOVE THESE ITEMS, PROVIDE PROTECTION AND PACKAGING AS MAY BE REQUIRED TO PROTECT THE EQUIPMENT AND TURN OVER SOLD EQUIPMENT TO THE OWNER AT A PLACE DESIGNATED ON THE JOBSITE. ANY EQUIPMENT THAT THE OWNER DOES NOT DESIRE TO RETAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE.

3. UNUSED CONDUIT AND WIRING: ALL UNUSED CONDUCTORS RESULTING FROM THIS PROJECT SHALL BE REMOVED. ALL UNUSED CONDUIT SHALL BE REMOVED EXCEPT WHERE LOCATED IN OR ABOVE EXISTING CONSTRUCTION WHICH IS NOT BEING ALTERED AND WOULD REQUIRE REMOVAL AND REPLACEMENT OF THE EXISTING CONSTRUCTION.

4. EXISTING TEL/DATA CABLES AND OUTLETS: PROVIDE DEMOLITION OF EXISTING VOICE DATA OUTLETS EXCEPT WHERE OTHERWISE SHOWN. VERIFY EXTENT OF WORK PRIOR TO SUBMITTING BID. PROPERLY SUPPORT AND MAINTAIN IN SERVICE ANY REMAINING VOICE/DATA SYSTEM WIRING INSTALLED EXPOSED ABOVE SUSPENDED CEILINGS WITHIN THE PROJECT AREA. SECURE CABLES TO STRUCTURE ABOVE USING TIE WRAPS SECURED TO INDEPENDENT TIE WIRES SUSPENDED FROM STRUCTURE ABOVE.

5. EXISTING RACEWAYS: PROPERLY SUPPORT ALL EXISTING RACEWAYS ABOVE SUSPENDED CEILINGS WHERE WORK IS TAKING PLACE. VERIFY EXTENT OF WORK PRIOR TO SUBMITTING BID.

L. CONTINUITY OF SERVICE: PERMANENTLY REROUTE OR RELOCATE EXISTING WIRING AND/OR EQUIPMENT WHICH IS IN CONFLICT WITH EXISTING BUILDING ALTERATIONS AND WHICH IS REQUIRED TO BE MAINTAINED IN USE.

M. REMOVAL AND REPLACEMENT OF EXISTING ACCESSIBLE CEILING PANELS, LIGHTING FIXTURES AND SPEAKERS: REMOVE AND REINSTALL ALL NECESSARY CEILING PANELS, LIGHTING FIXTURES, SPEAKERS AND OTHER EXISTING EQUIPMENT IN EXISTING ACCESSIBLE CEILINGS AS REQUIRED TO INSTALL THE ELECTRICAL WORK.

N. ANCHORAGE AND BRACING: PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR THE LATERAL AND VERTICAL SUPPORT OF CONDUIT AND ELECTRICAL EQUIPMENT AS REQUIRED BY THE INTERNATIONAL BUILDING CODE.

O. FIRESTOPPING: PROVIDE FIRESTOPPING FOR ALL PENETRATION IN RATED WALLS, CEILINGS AND FLOORS.

P. PAINTING: PAINT ALL EXPOSED RACEWAYS, EXCEPT SMR, IN FINISHED AREAS TO MATCH ADJACENT SURFACES.

Q. INSTRUCTION: CONTRACTOR SHALL INSTRUCT THE OWNER IN THE USE AND OPERATION OF ALL SYSTEMS INSTALLED UNDER THE SCOPE OF THIS CONTRACT.

R. OWNER FURNISHED EQUIPMENT: PROVIDE COMPLETE ELECTRICAL SERVICE AND CONNECTION TO ALL OWNER-FURNISHED EQUIPMENT.

260519 - CONDUCTORS AND CABLES

A. WIRE AND CABLE:
1. BRANCH CIRCUITS: TYPE THIN OR THIN, 600-VOLT INSULATION, STRANDED COPPER CONDUCTOR. MINIMUM CONDUCTOR SIZE:
a. NEUTRAL: #12 AWG
b. GROUND: #12 AWG
c. PHASE CONDUCTORS (MORE THAN SIX IN A RACEWAY): #10 AWG
d. PHASE CONDUCTORS (SIX OR LESS IN A RACEWAY): #12 AWG

2. FEEDERS: FEEDERS SHALL BE SIZED AS SHOWN ON THE DRAWINGS AND COLOR-CODED IN ACCORDANCE WITH LIST BELOW. MAKE NO SPLICES UNLESS SHOWN ON THE PLANS.

3. COLOR CODE WIRE IN ACCORDANCE WITH THE CODING SHOWN BELOW. POWER SYSTEMS CONDUCTORS ARE IDENTIFIED AS FOLLOWS:
208Y/120Y 480Y/277Y
PHASE A: BLACK BROWN
PHASE B: RED ORANGE
PHASE C: BLUE YELLOW
NEUTRAL: WHITE GRAY
GROUND: GREEN GREEN

TRAVELERS: YELLOW (FOR 3- AND 4-WAY SWITCHING)
CONTROLS: BLACK WITH WIRE NUMBERS ON EACH CONDUCTOR

4. SPLICES AND TERMINATIONS: LIGHTING AND RECEPTACLE BRANCH CIRCUIT CONDUCTORS UP TO NO. 10 AWG SHALL BE SPLICED WITH WING NUT TYPE CONNECTORS.

260526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

A. GENERAL: PROVIDE THROUGH THE ENTIRE ELECTRICAL SYSTEM. A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL LIGHTING AND POWER RACEWAYS

B. BONDING: INSULATED GROUNDING BUSHINGS SHALL BE INSTALLED TO BOND ALL FEEDER CONDUITS TO THE SWITCHBOARD GROUND BUS OR PANEL GROUND BUS AT BOTH ENDS OF FEEDER RACEWAYS. INSULATED GROUNDING BUSHINGS SHALL BE INSTALLED TO BOND ALL FEEDER CONDUITS TO THE GROUND BUS OR PANEL ENCLOSURES AT BOTH ENDS OF THE RUNS.

C. NEUTRAL GROUNDING: THE NEUTRAL POINT OF ALL TRANSFORMERS SHALL BE SOLIDLY GROUND TO THE GROUNDING SYSTEM AND TRANSFORMER ENCLOSURE WITH CORE SIZE GROUND CONDUCTORS. THE NEUTRAL BUS IN EACH PANELBOARD SHALL BE ISOLATED FROM THE GROUND. THE NEUTRAL SHALL BE GROUNDED ONLY AT A SINGLE POINT AT THE MAIN SWITCHBOARD OR AT SEPARATELY DERIVED SYSTEM TRANSFORMERS.

D. RECEPTACLE GROUNDING: CONNECT THE GROUND TERMINAL OF ALL RECEPTACLES BY UTILIZING A SEPARATE GROUNDING CONDUCTOR BETWEEN THE RECEPTACLE GROUNDING SCREW AND THE GROUND CONDUCTOR PROVIDED IN THE BRANCH CIRCUIT. INTEGRAL MOUNTING STRAPS WITHIN THE RECEPTACLE CONNECTED TO THE DEVICE MOUNTING STRAPS ARE NOT APPROVED AS A GROUNDING METHOD.

E. FLEXIBLE CONDUIT GROUNDING: PROVIDE A SEPARATE GROUNDING CONDUCTOR IN ALL FLEXIBLE CONDUIT RUNS INCLUDING WATERTIGHT FLEXIBLE CONDUIT WITH INTEGRAL GROUNDING STRAPS. INSTALL GROUND CONDUIT INSIDE CONDUIT WITH UNGROUNDING CONDUCTORS.

F. GROUND CONNECTIONS: GROUND CONNECTIONS TO BUILDING STEEL, GROUND RODS AND CABLE TOPS SHALL UTILIZE AN EXOTHERMIC WELDING PROCESS. CADWELD, ERICO PRODUCTS, INC., OR APPROVED EQUAL.

260533 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

A. RACEWAYS
1. ELECTRICAL METALLIC TUBING (EMT): STEEL--SCREW TYPE. FITTINGS TWO INCHES AND LARGER SHALL CONTAIN DUAL SET--SCREWS ON EACH SIDE OF THE COUPLING.
2. FLEXIBLE METALLIC CONDUIT: GALVANIZED STEEL, SECURELY INTERLOCKED.
3. MC CABLE -- CONCEALED IN WALLS ONLY.

B. FITTINGS
1. ELECTRICAL METALLIC TUBING (EMT): STEEL--SCREW TYPE. FITTINGS TWO INCHES AND LARGER SHALL CONTAIN DUAL SET--SCREWS ON EACH SIDE OF THE COUPLING.
2. FLEXIBLE METALLIC CONDUIT: STEEL, ONE- OR TWO--SCREW CLAMP TYPE.
3. CONDUIT STRAPS: HEAVY DUTY, TWO-HOLE PRESSED STEEL.
4. OUTLET AND DEVICE BOXES:

a. INTERIOR SURFACE-MOUNTED IN UNFINISHED AREAS: ONE-PIECE PRESSED STEEL, ELECTRO-GALVANIZED, SIZE AND DEPTH REQUIRED BY CODE, EXCEPT 4-INCH SQUARE OR 4-INCH OCTAGONAL MINIMUM.
b. INTERIOR FLUSH-MOUNTED: SAME AS ABOVE EXCEPT PROVED PLASTER RING EXTENSION TO FINISHED SURFACE.

5. JUNCTION AND PULL BOXES FOR INTERIOR AREAS: STEEL, SCREW COVER, CODE GAUGE AND SIZE. LARGE JUNCTION AND PULL BOXES SHALL BE FABRICATED SHEET STEEL WITH BAKED ENAMEL FINISH AND RETURN FLANGE WITH SCREW RETAINED COVER.

C. EXECUTION
1. GENERAL:
a. COORDINATION: THE CONTRACTOR SHALL REVIEW ALL DRAWINGS, DETAILS, AND ELEVATIONS PRIOR TO ROUGH-IN. WHERE EQUIPMENT IS FURNISHED BY OTHERS, THE CONTRACTOR SHALL REVIEW ALL DRAWINGS, DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN. WHERE EQUIPMENT IS FURNISHED BY OTHERS, THE CONTRACTOR SHALL ASCERTAIN THE PROPER VOLTAGE, LOAD AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

b. MATERIALS: ALL MATERIALS OF A SPECIFIC TYPE SHALL BE PROVIDED BY THE SAME MANUFACTURER THROUGHOUT THE PROJECT.
2. RACEWAYS: INSTALL RACEWAY TYPES AND SIZES AS LISTED BELOW:
a. ELECTRICAL METALLIC TUBING (EMT): ALL INTERIOR AREAS. MAY BE USED FOR FEEDERS WITH INTEGRAL GREEN GROUND CONDUCTOR.
b. FLEXIBLE METALLIC CONDUIT: RECESSED FIXTURE CONNECTIONS, INTERIOR CONCEALED EQUIPMENT CONNECTIONS, EXPANSION JOINTS AND SOUND CONTROL. NOT TO BE USED FOR EXPOSED INSTALLATIONS WITHIN THE FINISHED AREAS OF THE BUILDING.
c. MINIMUM RACEWAY SIZE SHALL BE 3/4-INCH, EXCEPT FOR RACEWAYS WITH NO MORE THAN THREE #12 AWG CONDUCTORS WHICH MAY BE 1/2 INCH.

D. INSTALLATION:
1. CONCEALMENT: ALL RACEWAYS SHALL BE CONCEALED IN FINISHED AREAS. WHERE EXISTING WALL SURFACES ARE INACCESSIBLE, SURFACE METAL RACEWAYS FOR THESE EXCEPTIONS MAY BE PROVIDED WHEN APPROVED.
2. EXPOSED RACEWAYS: INSTALL EXPOSED RACEWAYS AS HIGH AS POSSIBLE, ABOVE DUCTWORK, PARALLEL OR AT RIGHT ANGLES TO BUILDING LINES.
3. EXPANSION AND EARTHQUAKE JOINTS: RACEWAYS SHALL NOT BE INSTALLED IN CONCRETE SLAB OR WALL CONSTRUCTION WHEN PASSING THROUGH AN EXPANSION OR EARTHQUAKE JOINT.

4. ROUTING: ALL RACEWAYS SHALL BE INSTALLED PARALLEL OR AT RIGHT ANGLES TO THE BUILDING CONSTRUCTION UNLESS PROHIBITED BY A PHYSICAL OBSTRUCTION.
5. RACEWAY SUPPORTS: RACEWAYS SHALL BE SUPPORTED WITH HEAVY-DUTY, ONE-HOLE, PRESSED STEEL STRAPS ON INTERIOR SURFACES. SUPPORT PENDANT-MOUNTED RACEWAYS ON 3/8-IN ROD WITH PEAR-SHAPED HANGER OR TRAPEZE-TYPE HANGER WITH 3/8-INCH ROD (MINIMUM) AND 1-5/8-INCH SQUARE PREFORMED CHANNEL AND PIPE CLAMPS. PARALLEL, SURFACE-MOUNTED RACEWAYS SHALL BE SUPPORTED FROM 1-5/8-INCH SQUARE PREFORMED CHANNEL AND PIPE CLAMPS. ALL FITTINGS AND SUPPORTS SHALL BE HOT-DIP GALVANIZED IN EXTERIOR AREAS.

6. INDEPENDENT SUPPORT: CONDUITS SHALL NOT BE SUPPORTED FROM THE CEILING SUSPENSION SYSTEM, DUCTS, PIPES OR OTHER SYSTEMS FOREIGN TO THE ELECTRICAL INSTALLATION. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE KEPT INDEPENDENT FROM ANY OTHER TRADE.
7. PULLBOXES WITH COVERS: SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS OR AS REQUIRED BY CODE. ALL PULLBOXES SHALL BE LOCATED SO AS TO BE ACCESSIBLE.

8. FLEXIBLE CONDUIT: SHALL BE USED ONLY FOR LIGHTING FIXTURE PIGTAILS IN ACCESSIBLE CEILINGS, FLUSH-MOUNTED SPEAKER PIGTAILS IN ACCESSIBLE CEILINGS, SOUND CONTROL MOTOR CONNECTIONS AND AT BUILDING EXPANSION JOINTS AS SPECIFIED. ANY OTHER PROPOSED USE OF FLEXIBLE CONDUIT MUST BE APPROVED PRIOR TO INSTALLATION.
9. EMPTY RACEWAYS: PROVIDE A NYLON PULL STRING IN ALL EMPTY RACEWAYS.
10. BOXES AND FITTINGS:

a. GENERAL: BOXES SHALL BE SUPPORTED SECURELY AND INDEPENDENTLY. MOUNT BOXES ON BUILDING SURFACES OR SUPPORT WITH TRAPEZE HANGER AS DESCRIBED IN RACEWAY INSTALLATION. JUNCTION BOXES SHALL NOT BE USED UNLESS THE NUMBER OF BENDS, PULLING LENGTHS OR CIRCUIT REQUIREMENTS NECESSITATES THEIR INSTALLATION. JUNCTION OR PULLBOX OPENINGS MUST BE ACCESSIBLE.
b. SOUND CONTROL: WHERE BOXES ARE MOUNTED IN A COMMON WALL, THEY SHALL WHEREVER POSSIBLE, BE OFFSET HORIZONTALLY SO THAT THEY ARE NOT MOUNTED BACK-TO-BACK. CONNECT OFFSET BOXES WITH FLEXIBLE CONDUIT NOT TO EXCEED 18 INCHES IN LENGTH.

260553 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

A. GENERAL: LABEL ALL JUNCTION BOXES, TERMINAL CABINETS, ETC., WITH THE CIRCUIT NUMBER OR LOW-VOLTAGE SYSTEM CONTAINED WITHIN.
B. EQUIPMENT NAMEPLATES: SHALL BE ENGRAVED IN 1/16 INCH THICK PHENOLIC LETTERS A MINIMUM OF 3/16 INCH HIGH. COLORING SHALL BE WHITE LETTERS ON BLACK BACKGROUND.

260923 - LIGHTING CONTROL DEVICES

A. OCCUPANCY SENSOR: DUAL TECHNOLOGY TYPE, CEILING OR WALL SWITCH MOUNTED. USE A COMBINATION OF PASSIVE INFRARED AND ULTRASONIC DETECTION METHODS. MANUFACTURER: HUBBELL OR APPROVED EQUAL.

260926 - LIGHTING CONTROL PANELBOARDS

A. GENERAL:
1. THE WORK COVERED IN THIS SECTION IS SUBJECT TO ALL OF THE REQUIREMENTS IN THE GENERAL CONDITIONS OF THE SPECIFICATIONS. CONTRACTOR SHALL COORDINATE ALL OF THE WORK IN THE SECTION WITH ALL OF THE TRADES COVERED IN OTHER SECTIONS OF THE SPECIFICATION TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.

2. SYSTEM DESCRIPTION: INSTALL A LIGHTING CONTROL SYSTEM CONSISTING OF RELAY/CONTACTOR PANEL(S), CONTROL SWITCHES, OCCUPANCY SENSORS, PHOTOCELLS AND OTHER CONTROLLING DEVICES. THE DEVICES ARE CONNECTED BY LOW-VOLTAGE AND LINE-VOLTAGE WIRING. THE GENERAL OPERATION OF LIGHTING AND CONTROLLED LOADS SHALL INCLUDE:
a. INTERIOR LIGHTING, MANUAL SWITCH, PHOTOCELL AND OCCUPANCY SENSOR CONTROL ON/OFF WITH AUTOMATIC TIME SCHEDULED SHUT OFF.

b. SCHEDULED ON-OFF LOADS: TIME ON, TIME OFF BY AUTOMATIC TIME SCHEDULE WITH AFTER HOUR OVERRIDE CAPABILITY AND SHUTOFF.

B. PRODUCTS:
1. RELAY PANELS:
a. DESCRIPTION: LIGHTING CONTROL PANELS SHALL BE UL LISTED AND CONSIST OF THE FOLLOWING:
1) ENCLOSURE/TUB: NEMA 1.
2) COVER: FLUSH, HINGED, LOCKABLE AND SHALL RESTRICT ACCESS TO LINE VOLTAGE SECTION.
3) INTERIOR: BARRIER FOR SEPARATION OF HIGH-VOLTAGE (CLASS 1) AND LOW-VOLTAGE (CLASS 2) WIRING. IT SHALL INCLUDE INTELLIGENCE BOARDS, POWER SUPPLY AND CONTROL RELAYS. CLOCK DISPLAY AND KEYPAD SHALL BE MOUNTED ON INTERIOR CABINET DOOR FOR EASY USER ACCESS AND PROGRAMMING.

b. FEATURES:
1) PANEL SHALL ACCEPT UP TO SIXTEEN SINGLE POLE RELAYS. RELAYS SHALL BE INDIVIDUAL LATCHING RELAYS WITH 20 AMP LOAD CONTACTS FOR BALLAST (INCLUDING HID, MAGNETIC OR ELECTRONIC TYPE BALLASTS), TUNGSTEN AND GENERAL PURPOSE LOADS. PROVIDED ISOLATED AUXILIARY CONTACTS FOR PILOT LIGHT SWITCHING. RELAYS SHALL USE QUICK CONNECTORS AND BE INDIVIDUALLY REPLACEABLE TO FACILITATE EASE OF USE.
2) WHERE INDICATED, PANELS SHALL PROVIDE SPACE WITHIN THE HIGH VOLTAGE SECTION OF THE ENCLOSURE TO ACCOMMODATE UP TO 12 MULTI-POLE CONTACTORS. TWO SECTIONS OF DIN RAIL MOUNTING SHALL BE PROVIDED AS STANDARD. NO FIELD DRILLING OR FABRICATION SHALL BE REQUIRED FOR MOUNTING CONTACTORS OR OTHER ACCESSORIES WITHIN THE ENCLOSURE.

2. APPROVED MANUFACTURERS:
a. RELAY PANEL: HUBBELL CX162S162NM OR APPROVED EQUAL.
b. PHOTOCELL: HUBBELL LUXSTAT-LS
c. OVERRIDE SWITCH: HUBBELL LVS2MPL-COLOR
d. OCCUPANCY SENSOR SWITCH: HUBBELL LHUSS1-COLOR

262726 - WIRING DEVICES

A. WIRING DEVICES
1. APPROVED MANUFACTURERS: HUBBELL, P & S OR LEVITON. ALL PART NUMBERS REFER TO HUBBELL.
2. COLOR OF SWITCH HANDLES: BLACK IN COLOR, WHITE IN COLOR IF ON WHITE SURFACE (PAINT OR TILE).
3. RECEPTACLE FACES: BLACK IN COLOR, WHITE IN COLOR IF ON WHITE SURFACE (PAINT OR TILE) FOR NORMAL POWER.

B. RECEPTACLES
1. DUPLEX RECEPTACLES: SPECIFICATION--GRADE, 20 AMPERE, 125-VOLT, GROUNDED TYPE, HBL5362 SERIES.
2. DOUBLE DUPLEX RECEPTACLES: SPECIFICATION--GRADE, 20-AMPERE, 125-VOLT, GROUNDED TYPE, HBL5362 SERIES.
3. GROUND FAULT INTERRUPTION RECEPTACLE: SPECIFICATION--GRADE, 20-AMPERE, 120-VOLT, CLASS A, 5-MILLIAMPERE SENSITIVITY, GF5362 SERIES.

e. SWITCHES
1. SINGLE-POLE SWITCHES: SPECIFICATION--GRADE, 20AMPERE, 1221 SERIES.
2. THREE-WAY SWITCHES: SPECIFICATION--GRADE, 20-AMPERE, 1223 SERIES.
3. OCCUPANCY WALL SWITCHES: SPECIFICATION--GRADE, 20-AMPERE WITH INTEGRAL PRECISION INFRARED OCCUPANCY SENSOR.
4. LOW VOLTAGE WALL SWITCHES: HUBBELL LOW VOLTAGE SWITCH LVS2M SERIES OR APPROVED EQUAL.
5. LINE VOLTAGE DIMMING SWITCHES: SPECIFICATION GRADE, 800W SLIDE DIMMING SWITCH. LEVITON RENIOR SERIES OR APPROVED EQUAL.
6. DIMER SWITCH: LEVITON VP724-1P.

D. DEVICE PLATES: BLACK IN COLOR, WHITE IN COLOR IF ON WHITE SURFACE (PAINT OR TILE), SMOOTH, HIGH-IMPACT THERMOPLASTIC, P&S/SIERRA OR APPROVED EQUAL.

E. EXECUTION
1. GENERAL: INSTALL DEVICES LEVEL, PLUMB AND SQUARE WITH BUILDING LINES.
2. SWITCH LOCATIONS: LOCATE SWITCHES 6 INCHES FROM DOOR CASING.
3. RECEPTACLE MOUNTING HEIGHT: + 18" TO THE CENTERLINE OF THE BOX UNLESS OTHERWISE NOTED.
4. SWITCHES: + 48" TO THE CENTERLINE OF THE BOX.

262416 - PANELBOARDS

A. 480Y/277V OR 208Y/120V, COPPER BUS BOLT-ON MOLDED CASE THERMAL MAGNETIC TYPE CIRCUIT BREAKERS HAVING A MINIMUM INTERRUPTING RATING OF 14,000 AMPERE FOR 480Y/277V PANELS AND 10,000 AMPERE FOR 208Y/120V PANELS.
B. MOUNTING: WHERE PANELBOARDS ARE TO BE INSTALLED AGAINST PLASTERBOARD WALLS, PROVIDE SEPARATE SUPPORT CHANNELS SECURED TO BLOCKING BETWEEN STEEL STUDS. COORDINATE BLOCKING WORK WITH THE GYPSUM WALLBOARD CONTRACTOR. PANELS SHALL NOT BE SECURED DIRECTLY TO GYPSUM WALLBOARD MATERIAL.

C. PROVIDE SHORT CIRCUIT STUDY OBTAINING AVAILABLE FAULT FROM SERVING UTILITY. PROVIDE DOCUMENTATION TO DEMONSTRATE THAT ALL SUBMITTED EQUIPMENT AND PROTECTIVE DEVICES MEET OR EXCEED AVAILABLE FAULT AT POINT OF APPLICATION. PROVIDE EQUIPMENT IN COMPLIANCE WITH AVAILABLE FAULT.
D. PERFORM AN ARC-FLASH STUDY IN ACCORDANCE WITH THE NEC AND AHJ TO DETERMINE INCIDENT ENERGY EXPOSURE, FLASH PROTECTION BOUNDARY, SHOCK HAZARD APPROACH LIMITS AND REQUIRED PPE LEVELS. PROVIDE REQUIRED DATA FOR APPROVED ARC-FLASH WARNING LABELS ON ALL PANELBOARDS AND DISCONNECT SWITCHES. PROVIDE WARNING LABELS ON ALL PANELBOARDS.

E. PROVIDE NAMEPLATE FOR EACH PANELBOARD PER 260553 ELECTRICAL IDENTIFICATION.
F. APPROVED MANUFACTURERS: SQUARE D, GENERAL ELECTRIC OR SIEMENS.
G. CURRENT-LIMITING PANELBOARD: LEVITON TRACK LIGHT LIMITING PANEL.
1. PROVIDE LEVITON G16F1-106 CURRENT LIMITING PANELBOARD. BREAKER SIZES INDICATED ON CURRENT-LIMITING PANELBOARD SCHEDULE, SHEET E-601.

262816 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS

A. APPROVED MANUFACTURERS: SQUARE D, GENERAL ELECTRIC OR SIEMENS.
B. SINGLE-PHASE MOTOR: MOTORS 1/3 HP OR LESS PROVIDE WITH TOGGLE-TYPE, 20-AMP, 120-VOLT RATING, SPECIFICATION--GRADE DISCONNECT SWITCHES.
C. THREE-PHASE MOTOR: MOTORS 1/4 HP AND LARGER PROVIDE WITH AMP AND VOLTAGE RATING AS REQUIRED, SPECIFICATION--GRADE DISCONNECT SWITCHES. NEMA RATED PER ENVIRONMENT.

D. EQUIPMENT DISCONNECTS: SHALL BE FUSED OR NONFUSED AS REQUIRED BY THE EQUIPMENT MANUFACTURER, RATED AT 125 PERCENT OF FULL LOAD NAMEPLATE AMPERAGE OR RATED HORSEPOWER, HEAVY-DUTY TYPE.
E. DISCONNECTS: PROVIDE DISCONNECTS AT ALL MOTORS AND OTHER EQUIPMENT ITEMS UNLESS THE EQUIPMENT HAS A SELF-CONTAINED, CODE APPROVED DISCONNECTING METHOD. EQUIPMENT DISCONNECTS SHALL BE FUSED OR NON-FUSED AS REQUIRED BY THE EQUIPMENT MANUFACTURER.

262813 - FUSES

A. MANUFACTURERS: BUSSMAN, FERREZ SHAMMUT.
B. FUSES: PROVIDE 200.0-00 AC, CURRENT LIMITING, UL TIME DELAY FUSES AS FOLLOWS:

1. FEEDERS 600 AMPS AND LESS: CLASS RK-1, LPN-RK FOR 250-VOLT, DUAL ELEMENT, CLASS RK-1, LPS-RK FOR 600 VOLT, DUAL ELEMENT.
2. MOTOR CIRCUIT 600 VOLTS AND BELOW: CLASS RK-1 OR CLASS J SIZED AT 125 PERCENT FLC OF MOTOR.

C. MOTOR CONTROLS
1. APPROVED MANUFACTURERS: SQUARE D, GENERAL ELECTRIC OR SIEMENS.
2. MANUAL STARTERS: TOGGLE TYPE, LOCKABLE IN THE OFF POSITION, OVERLOAD PROTECTION, PILOT LIGHT AND NEMA 1 ENCLOSURE.
D. MOTOR CONTROLS AND EQUIPMENT CONNECTIONS:

1. GENERAL: PROVIDE ALL LINE VOLTAGE WIRING AND CONNECTIONS TO EQUIPMENT AND MOTORS AS SHOWN ON THE PLANS, DIAGRAMS OR SPECIFIED HEREIN. OBTAIN ALL NECESSARY ELECTRICAL AND PHYSICAL INFORMATION FROM THE TRADE PROVIDING THE EQUIPMENT, PRIOR TO ROUGH-IN AND ADJUST INSTALLATION REQUIREMENTS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
2. MOTOR CONTROLS, SEPARATELY MOUNTED: PROVIDE SEPARATELY MOUNTED MOTOR STARTING EQUIPMENT AS SHOWN OR NOTED. COORDINATE LOCATION AND INTERLOCKING WITH TEMPERATURE CONTROLS CONTRACTOR. VERIFY MOTOR HORSEPOWER SIZE OR FULL-LOAD AMPERAGE PRIOR TO ORDERING OVERLOAD HEATERS AND SIZE UNITS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

265100 - INTERIOR LIGHTING

A. GENERAL: REFER TO THE FIXTURE SCHEDULE ON THE CONTRACT DRAWINGS.
B. LABELS: PROVIDE UL LABELS ON ALL NEW FIXTURES. LIGHTING FIXTURES INSTALLED IN DAMP OR WET LOCATIONS SHALL HAVE LABEL 'SUITABLE FOR DAMP LOCATIONS' OR 'SUITABLE FOR WET LOCATIONS.'
C. LAMPS:
1. APPROVED MANUFACTURERS: OSRAM/SYLVANIA, GE, OR PHILIPS. SEE FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
2. PROVIDE FOR EACH FIXTURE, NUMBER, SIZE AND TYPE AS REQUIRED BY FIXTURE OR AS INDICATED ON THE DRAWINGS.

3. FLUORESCENT: PROVIDE EACH FIXTURE WITH THE NUMBER, SIZE AND TYPE AS REQUIRED BY FIXTURE OR INDICATED ON DRAWINGS. LAMP COLOR SHALL BE 3500K WITH A COLOR RENDERING INDEX (CRI) OF 80 OR BETTER. EACH 4 LAMP SHALL HAVE LESS THAN 10 MG OF MERCURY. ALL LAMPS OF A SPECIFIC TYPE ARE TO BE OF THE SAME MANUFACTURER. THERE SHALL BE NO PERCEPTIBLE COLOR DIFFERENCES BETWEEN LAMPS.
4. LED: PROVIDE EACH FIXTURE WITH THE NUMBER, SIZE AND TYPE AS REQUIRED BY THE FIXTURE OR INDICATED ON THE DRAWINGS.
D. BALLASTS:
1. APPROVED MANUFACTURERS: ADVANCE, MAGNETEK OR LUTRON.
2. ELECTRONIC FLUORESCENT BALLASTS: BALLASTS SHALL BE TYPE REQUIRED FOR THE NUMBER AND TYPE OF LAMPS IN EACH CASE. EACH FIXTURE SHALL HAVE ITS OWN BALLAST. REMOVE, FANDEW OR MASTER/SLAVE-WIRED BALLASTS SHALL NOT BE UTILIZED. ALL BALLASTS SHALL BE E-HPF - ETL AND UL APPROVED. ALL FLUORESCENT BALLASTS SHALL OPERATE AT 20 HZK OR GREATER AND CLASS P THERMALLY PROTECTED RESET TYPE TO MEET SECTION 410-73 (E) OF THE NATIONAL ELECTRICAL CODE AND BE CSA CERTIFIED. BALLAST FACTOR FOR ALL LAMP/BALLAST COMBINATIONS SHALL EXCEED .90 FOR ALL CASES. BALLAST SHALL COMPLY WITH FCC REQUIREMENTS UNDER PART 18, CLASS A. ALL BALLASTS SHALL BE GUARANTEED BY THE MANUFACTURER FOR A PERIOD OF TWO YEARS AFTER INSTALLATION. RAPD-START BALLASTS SHALL BE CERTIFIED TO HAVE AN 'A' SOUND RATING. THE VOLTAGE RATING OF THE BALLAST SHALL BE AS REQUIRED BY THE SERVICE VOLTAGE.

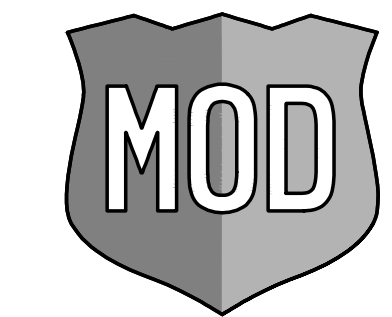
271500 - COMMUNICATIONS HORIZONTAL CABLING

A. SCOPE: CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS FOR A COMPLETE, FUNCTIONAL DATA AND VOICE COMMUNICATIONS SYSTEM INFRASTRUCTURE IN ACCORDANCE WITH THIS SPECIFICATIONS AND THE CONTRACT DRAWINGS.
B. INSTALLATION SHALL INCLUDE CABLE (TWISTED-PAIR COPPER), INTERCONNECT PATCH EQUIPMENT, CONNECTORS, JUMPEERS, WIRING BLOCKS AND TELECOMMUNICATIONS OUTLETS.

C. UPON COMPLETION OF INSTALLATION THE CONTRACTOR SHALL TEST ALL COPPER PATHWAYS AND RECORD THE TEST RESULTS.
D. PROVIDE THREE JACKS PER OUTLET LOCATIONS AS SHOWN ON PLANS. USE SINGLE GANG, FLUSH MOUNT FACEPLATES. PROVIDE ONE CATEGORY 5E CABLE PER JACK UNLESS OTHERWISE INDICATED. TERMINATE WITH CATEGORY 5E INSERT JACKS UNLESS OTHERWISE INDICATED. PROVIDE UNPRISE #CC0205XX (XX=COLOR) MODULAR JACKS. FACEPLATES SHALL BE WHITE, COMMSCOPE #108168543.
E. PROVIDE SUPERIOR ESSEX DATA GAN #66-240-2B DATA STATION CABLE, 4-PAIR, 24AWG, UTP, UO/NEC CMP OR EQUIVALENT.
F. ALL CABLES ROUTED ON BACKBOARDS SHALL BE SUPPORTED USING NYLON ZIP TIE MOUNTS THAT ARE SECURELY MOUNTED TO THE BACK BOARD BY SCREWS IN ADDITION TO THE ADHESIVE BACK.
G. DATA/VOICE TERMINAL BACKBOARD SHALL BE 3/4" THICK PLYWOOD, APA EXTERIOR GRADE DOUGLAS FIR A-C, AND FIRE RETARDANT WITH FLAME SPREAD RATING NOT MORE THAN 25 WHEN TESTED ACCORDING TO ASTM E-84.
H. PROVIDE SUPERIOR ESSEX CAT 3 4 PAIR STATION CABLE FOR ALL JACKS LABELED FOR TELEPHONE. PROVIDE # 18-241-43 WHITE, PLENUM RATED OR EQUIVALENT.
I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EMT SLEEVES AT ANY LOCATION WHERE A WALL, PARTITION, FLOOR OR CEILING IS PENETRATED. WHERE A FIRE-RATED WALL, FLOOR OR CEILING IS PENETRATED, SEAL AROUND ALL CABLES WITH UL CLASSIFIED FIRE SEAL SUFFICIENT TO RETURN THE STRUCTURE TO ITS ORIGINAL RATING.
J. PROVIDE PLASTIC BUSHING ON ALL CONDUITS AND SLEEVES PRIOR TO INSTALLING CABLE. CABLE INSTALLED IN CONDUITS OR SLEEVES WITHOUT BUSHINGS SHALL BE REMOVED AND REPLACED.
K. PROVIDE METALLIC RACEWAYS ABOVE INACCESSIBLE CEILINGS, INSTALLED EXPOSED OR WHERE SUBJECT TO PHYSICAL DAMAGE. RACEWAY FILL SHALL NOT EXCEED 40 PERCENT. MINIMUM RACEWAY SIZE SHALL BE 3/4 INCH.

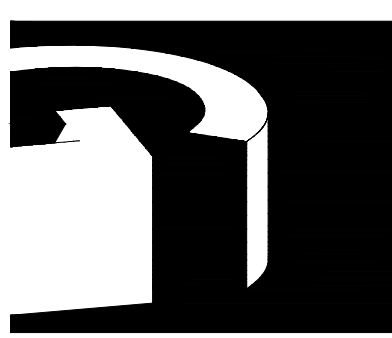
END OF ELECTRICAL SPECIFICATIONS

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SEA

10/14/2021



DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED DATE

PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

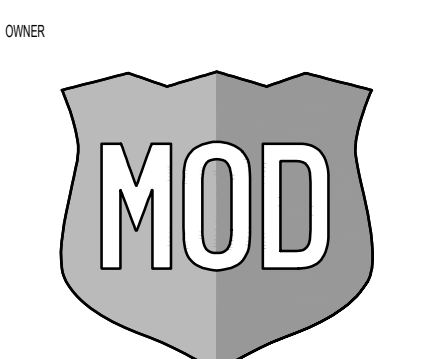
SP-913
ELECTRICAL SPECIFICATIONS

VENDOR LIST

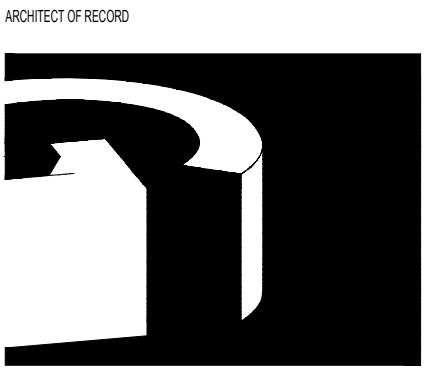
VENDOR NAME/ CATEGORY	PRODUCT DESCRIPTION	CONTACT NAME	TITLE	CONTACT EMAIL	PHONE
ACTIVE VENDORS					
AUDIO + LOW VOLTAGE					
PAR TECH	CASH BOX, POS SCREEN, KDS SCREEN, BUMP BAR, CONTROL UNIT, EHV READER	CHRISTINA GRUCHY	ORDER ADMIN SPECIALIST	CHRISTINA_GRUCHY@PARTECH.COM	(800) 448-6505 X6310
		COREY CONKLIN	PROJECT MANAGER - PAR PAY	COREY_CONKLIN@PARTECH.COM	(561) 448-7381
POSRG	PRINTERS, POWER SOURCE, LOYALTY SCANNER	CONNOR WILFORD	PROJECT MANAGER	CWILFORD@POSRG.COM	(224) 622-8495
		JEREMY VARNEY	DIRECTOR OF RETAIL SALES	JVARNEY@POSRG.COM	(847) 526-9650 EXT. 394
RTGPOS	PRINTERS, POWER SOURCE, LOYALTY SCANNER	JUSTIN KEENE		JUSTIN.KEENE@RTGPOS.COM	(314) 926-4663
		DIANA KILLIAN	CUSTOMER RELATIONSHIP MANAGER	DIANA.KILLIAN@RTGPOS.COM	(636) 680-8270
				MODPIZZA@RTGPOS.COM	
BEER					
MICRO MATIC	BEER KEGERATOR	KRISTINE LASCALA		KMLI@MICRO-MATIC.COM	(352) 593-2022
		LEAH HAAB		LKH@MICRO-MATIC.COM	
CAMERAS, SECURITY + LOCKSMITH					
DH PACE	SECURITY, RE-KEY	KATIE HANSEN	DEPARTMENT MANAGER	KATIE.HANSEN@DHPACE.COM	(816) 480-2609
			MOD ORDERS	MODPIZZA@DHPACE.COM	(888) 643-3667
			GC ORDERS	SECURITYSOLUTIONS@DHPACE.COM	(855) 237-3667
ENVYISION	SECURITY CAMERAS	HANNAH ROBERTS		HROBERTS@ENVYISION.COM	(720) 862-5481
		JOSHUA COX		JCOX@ENVYISION.COM	
IBEAM SYSTEMS	SECURITY CAMERAS DURING CONSTRUCTION	DEBBIE HARRIS		DEBBIE@IBEAMSYSTEMS.COM	(208) 473-2736
		CODY MECHAM		CODY@IBEAMSYSTEMS.COM	
PROTECTION 1 (ADT)	ALARM MONITORING	HANNAH COOK		HANNAHCOOK@ADT.COM	
		DENNIS SMITH	NATIONAL ACCOUNTS MANAGER	DENNISPMITH@ADT.COM	(503) 367-0214
		HEIDI THOMPSON	SERVICE MANAGER	HEIDITHOMPSON@ADT.COM	(214) 277-7127
CASEWORK					
FCC	CASEWORK PACKAGE, OAK TABLE TOPS, FURNITURE	CHANDRA COUNTS	PROJECT COORDINATOR	CHANDRA.GRAVES@FCCFURN.COM	(541) 464-5211
				MOD@FCCFURN.COM	
		LAURA COBIAN		LAURA.COBIAN@FCCFURN.COM	(800) 322-7328 EXT. 271
		RUSS COOLEY	VP DEVELOPMENT/DESIGN	RUSS.COOLEY@FCCFURN.COM	(800) 322-7328
		BETH ANDERSON	INTERIOR DESIGNER	BETH.ANDERSON@FCCFURN.COM	(800) 322-7328 X238
		PRESTON OHARA	GENERAL MANAGER	PRESTON.OHARA@FCCFURN.COM	(800) 322-7328 X284
LOAD KING	CASEWORK PACKAGE	MARLENA SOPIRA	DIRECTOR OF ACCOUNT DEVELOPMENT	MSOPIRA@LOADKING.COM	(904) 633-7409
		PHIL BLACK		PBLACK@LOADKING.COM	
PIN	CASEWORK PACKAGE	CATHY INTIA	ACCOUNT MANAGER	CINTIA@PIN.COM	(972) 621-1200
WISCONSIN BUILT	CASEWORK PACKAGE	DAVID NIEMAN	ACCOUNT MANAGER	DAVIDN@WISCONSIN-BUILT.COM	(608) 764-3396
		JONATHAN UECKER	PROJECT MANAGER	JONATHANU@WISCONSIN-BUILT.COM	(608) 764-8661 EXT. 4335
CONTRACTS + MISC					
AIRGAS	CO2	NANCY DIAZ		MAINIE.DIAZ@AIRGAS.COM	(877) 717-4540 EXT. 11254
		KALI KOSTAR		KALI.KOSTAR@AIRGAS.COM	
COCA-COLA	COKE MACHINE	JODIE GARLINGTON	OPERATIONS MANAGER	JGARLINGTON@COCA-COLA.COM	
		HANNAH KELLY	ACCOUNT COORDINATOR	HANKELLY@COCA-COLA.COM	(800) 531-2238 EXT. 2643
DCCONE	BANNERS	KARRI KELLER		KARRI.KELLER@DCCONE.COM	(206) 409-2052
				MODPIZZA@DCCONE.COM	
ECOLAB	DISHWASHER	ANA RODRIGUEZ	INSTALLS/ORDERS	ANA.RODRIGUEZ@ECOLAB.COM	(800) 532-7732 EXT. 6933
KINETICO	WATER FILTRATION		CUSTOMER SUPPORT LINE (ORDERS & SERVICE)	COMMERCIAL@KINETICO.COM	(800) 321-5022
		JESSICA SLISHER	SYSTEMS 2, 2B & 3 ORDERS	JSLISHER@KINETICO.COM	(440) 321-6210
			SYSTEM 1 ORDERS FOR ED DON	CUSTOMER-SERVICE@SELECTOINC.COM	(800) 321-5022 #4
		DON GADSDEN	DESIGN & LAYOUT SUPPORT	DGADSDEN@KINETICO.COM	(416) 802-6250
		CASEY ROBINSON	FIELD TECH SUPPORT	CROBINSON@KINETICO.COM	(678) 708-6287
		JONATHAN KELLER	FIELD SERVICE DISPATCH	JKELLER@KINETICO.COM	(440) 564-4422
		TOM BEST	DIRECTOR - BUSINESS DEVELOPMENT	TBEST@KINETICO.COM	(630) 306-7670
		SHAY ASHLOCK	DIRECTOR - CUSTOMER EXPERIENCE	SASHLOCK@KINETICO.COM	(678) 899-5219
PFG	PRE-HEALTH	CENA COUPENS		CENA.COUPENS@PFG.COM	(971) 716-4741

SSDC	CLEANING AGENTS FOR DISHWASHER	STEVEN STRAW	PNW REGIONAL	STEVEN.STRAW@SSDCSOAP.COM	(385) 313-4339
DRIVE THRU SPECIFIC					
ENTOUCH SOLUTIONS	DRIVE THRU LOOP DETECTORS, HEADSETS	ERIC HERN	SALES	ERIC@ENTOUCHSOLUTIONS.COM	(503) 319-5272
EQUIPMENT					
CAPTIVEAIR	OVEN HOOD & DIRECT VENT	JON CLARKE	PROJECT MANAGER	JON.CLARKE@CAPTIVEAIR.COM	(425) 212-5996 EXT. 2
LENNOX	RTUS	KURT KIZEWSKI	NATIONAL ACCOUNT MANAGER	KURT.KIZEWSKI@LENNOXIND.COM	(719) 440-0827
			EQUIPMENT CUSTOMER SERVICE	LENNOXNATIONALACCOUNTS@LENNOXIND.COM	
			EMERGENCY REPLACEMENTS	NAEMERGENCYREPLACEMENTREQUESTS@LENNOXIND.COM	
			PARTS CUSTOMER SERVICE	CUSTOMERSERVICE@LENNOXIND.COM	
			TECHNICAL SUPPORT	NATIONALACCOUNTSTECHNICALSUPPORT@LENNOXIND.COM	
			BLDG. AUTOMATION TECHNICAL SUPPORT	CCAC@LENNOXIND.COM	
			APPLICATIONS	COMMERCIALAPPLICATIONSUPPORT@LENNOXIND.COM	
ROLL-A-SHADE	WINDOW SHADES	SHANNEN ALBINA	PROJECT MANAGER	SHANNEN.ALBINA@ROLLASHADE.COM	(951) 245-5077 EXT. 140
		RIC BERG	VP BUSINESS DEVELOPMENT-NATIONAL	RIC.BERG@ROLLASHADE.COM	(951) 245-5077 X113
SMITH & GREENE (ED DON)	FRONT AND BACK OF HOUSE EQUIPMENT, SMALLWARES, SHELVING, FURNITURE	TRINA IVERSON	ACCOUNT MANAGER	TRINAIVERSON@DON.COM	(253) 258-3964
		LUBIA RODRIGUEZ	PROJECT MANAGER	LUBIARODRIGUEZ@DON.COM	(253) 258-3673
WOODSTONE	PIZZA OVEN	TRAVIS WALKER	REGIONAL SALES MANAGER	TRAVISW@WOODSTONE.NET	(360) 920-1060
FINISHES					
2 STONE	PRECAST CONCRETE VENEER	LISE BROWN	MANAGING DIRECTOR - DESIGN	LISE@2STONE.CA	(403) 236-3657
3M	GLAZING FILM	TINA DOMINGUEZ	SPECIALIST; BRANDING; DESIGN	TMDOMINGUEZ@MMM.COM	(415) 246-1847
9WOOD	SUSPENDED WOOD PANEL CEILING	STEVE KOVARIK	SALES & ARCHITECTURAL MGR	SKOVARIK@9WOOD.COM	(888) 767-9990
			ORDERING	SALES@9WOOD.COM	
ANN SACKS TILE	DECORATIVE TILE	CHRISTINE NEELY	ASSOCIATE DESIGN SALES CONSULTANT	CHRISTINE.NEELY@ANNSACKS.COM	(206) 441-8917 EXT. 42235
ANTHOLOGY WOODS	WOOD CLADDING	ANDREA WITKOWSKI	SALES REPRESENTATIVE	ANDREA@ANTHOLOGYWOODS.COM	(541) 227-5238 EXT. 700
ARMSTRONG FLOORING	RUBBER BASE PRODUCTS	STERLING DUNLAP	INSIDE SALES REPRESENTATIVE	SDUNLAP@ARMSTRONGFLOORS.COM	(717) 672-7415
BFC METALS	ONLINE ORDER SHELVING, CORNER GUARDS, CHAIR RAIL, TOP CAPS, TEA DISPENSER TAGS, UTENSIL RACK	KIRK KOONTZ	OWNER	KIRK.KOONTZ@BFCMETALS.COM	(206) 763-0530
		JESSICA SMITH	PROJECT MANAGER	JESSICA@BFCMETALS.COM	(206) 763-0530
BRIDGER STEEL	CORRUGATED METAL	JACOB HOUSHMAN	NATIONAL SALES TEAM LEAD	JACOB.HOUSHMAN@BRIDGERSTEEL.COM	(406) 813-5632
CEMENT TILE SHOP	CEMENT TILES	JAMIE ADDISON	CUSTOMER SERVICE	CUSTOMERSERVICE@CEMENTTILESHOP.COM	(800) 704-2701
CONSOLEDICE/ PROSOCO	SEALED CONCRETE FLOORS	JOHN MURPHY	TECHNICAL SPECIALIST	JOHN.MURPHY@PROSOCO.COM	(253) 363-2183
CONSTRUCTION SPECIALTIES	FAUX BRICK PANELS	JEN DAVIS	WEST TERRITORY SALES MANAGER	JDAVIS@C-SGROUP.COM	(619) 481-9588
CREATIVE PALETTE	FAUX BRICK PANELS, SUSPENDED CEILING SYSTEMS	VINCE FAIELLA	ACCOUNT MANAGER	VFAIELLA@CREATIVEPALETTEINC.COM	(614) 623-6444
DAL TILE	SUBWAY TILE, FLOOR TILE, DECORATIVE TILE	CARL CHITWOOD	ARCHITECTURAL SALES NW REGION	CARL.CHITWOOD@DALTILE.COM	(206) 854-6930
			NATIONAL ACCOUNTS	NATIONALACCOUNTS@DALTILE.COM	(877) 556-5728
DESIGN & DIRECT SOURCE	DECORATIVE TILE	SUZANNE SANNING	SENIOR VICE PRESIDENT	SSANNING@DESIGNANDDIRECTSOURCE.COM	(503) 388-2044
		NICOLE CARRUTH	ASSOCIATE PROJECT MANAGER - WEST	NICOLE@DESIGNANDDIRECTSOURCE.COM	
EMSER TILE	DECORATIVE TILE	GILLIAN BARDIN	COMMERCIAL TERRITORY MANAGER	GILLIANBARDIN@EMSER.COM	(206) 390-1964
			ORDERS	MODPIZZA@EMSER.COM	
		KYLE STOKLEY	NATIONAL ACCOUNT MANAGER	KYLESTOKLEY@EMSER.COM	
EUROWEST	DECORATIVE TILE	GIUSEPPE COLUCCI	ARCHITECTURAL REPRESENTATIVE	GC@EUROWEST.COM	(714) 310-7934
JAMES HARDIE	HARDIEBACKER CEMENT BOARD	DAVE HUGHES	COMMERCIAL	DAVE.HUGHES@JAMESHARDIE.COM	(253) 315-5317
		JOHANN GUTIERREZ	WESTERN WA SALES MGR	JOHANN.GUTIERREZ@JAMESHARDIE.COM	(425) 306-3910
MARLITE	FRP	TOM LENOX	DIRECTOR OF SALES	TLENOX@MARLITE.COM	(330) 260-7608
MONICOLS	WIRE MESH	ALEX VICENS	CUSTOMER SERVICE SPECIALIST	ALEX.VICENS@MONICOLS.COM	(800) 237-3859 EXT. 3859
MOUNTAIN LUMBER	WOOD CLADDING	RICHARD BROTHERTON	SALES REPRESENTATIVE	RICHARD@REDSQUIRRELINTERIORS.COM	(360) 819-6085
		JASON EASTMAN	COMMERCIAL CONSULTANT	JASON.EASTMAN@MOUNTAINLUMBER.COM	(434) 985-3646
MUTUAL MATERIALS	SLIM BRICK CLADDING	MATT JOHNSON	RESIDENTIAL SALES REP	MJOHNSON@MUTUALMATERIALS.COM	(425) 452-2303
			ORDERS	(866) 576-8882	
NEMO TILE	DECORATIVE TILE	MILTANIA BROWN	ASD SALES SUPPORT SUPERVISOR	MBROWN@NEMOTILE.COM	(212) 477-1425 EXT. 256
		EMILY METRO	QUOTES / PRICING QUESTIONS	EMETRO@NEMOTILE.COM	(913) 485-3295

PANOLAM	RUBBER BASE	SHERIDAN BOTOS	SPECIFICATION MANAGER	SHERIDAN_BOTOS@PANOLAM.COM	(510) 730-9200
PIONEER MILLWORKS	WOOD CLADDING	SIERRA MURPHY	SALES REP	SIERRA@PIONEERMILLWORKS.COM	(585) 737-6137
		ASHLEY SAMUEL	INSIDE SALES PARTNER FOR SIERRA MURPHY	ASHLEY@PIONEERMILLWORKS.COM	(503) 349-6997
SHERWIN WILLIAMS	PAINT	LEANNE DUDLEY	NATIONAL ACCOUNT MANAGER	LEANNE.N.DUDLEY@SHERWIN.COM	(425) 417-1765
SUPERIOR RADIANT INSULATION	SCRIM	LINDA DITTEMORE	CUSTOMER SERVICE	LINDA@SUPERIORRB.COM	(909) 305-1450
SURFACE ART TILE	DECORATIVE TILE	CHAD BALLARD	DIRECTOR COMMERCIAL & ARCH DESIGN SALES	CHAD@SURFACEARTINC.COM	(206) 315-4538 (OFFICE) (206) 514-1590 (CELL)
SUSTAINABLE LUMBER	WOOD CLADDING	RYAN PALMA	SALES REPRESENTATIVE	RYAN@SUSTAINABLELUMBERCO.COM	(406) 642-7120
TERRAMA1	RECLAIMED TABLE TOPS, WOOD CLADDING	MATT NICHOLS	NATIONAL ACCOUNTS WEST	MNICHOLS@TERRAMA1.COM	(206) 450-6712
		JUSTINE BARNHART	INSIDE SALES	JUSTINE@TERRAMA1.COM	(541) 973-2302
UNITED TILE	DECORATIVE TILE	LOIS WALLACE	DIRECTOR OF COMMERCIAL BUSINESS DEVELOPMENT	LOIS@UNITEDTILE.COM	(206) 218-5373
UNITED TILE - CROSSVILLE	LAMINAM TILE	ASHLEY HOLMES	BRAND MANAGER - CROSSVILLE TILE	ASHLEYHOLMES@UNITEDTILE.COM	(425) 241-1986
USG	ACOUSTIC CEILING TILE	BEN BEARDEN	CORPORATE ACCOUNTS	BBEARDEN@USG.COM	
VIROC	CEMENT FIBER BOARD PANELS	STEVE PACKIN	SALES	SPACKIN@INTERNATIONALHARDBOARD.COM	(718) 386-6119
WILSONART	PLASTIC LAMINATE, COUNTERTOPS	BRYNN BISHOP	NATIONAL ACCOUNT MANAGER	BRYNN.BISHOP@WILSONART.COM	(720) 346-4538
WOLF GORDON	WALLCOVERING	GINNY COMBS	SALES REPRESENTATIVE	GINNY.COMBS@WOLFGORDON.COM	(800) 347-0550 EXT. 811
		BRITNI CIEKA	SALES SUPPORT REP.	BRITNI.CIEKA@WOLFGORDON.COM	(718) 391-5453
FURNITURE					
CROW WORKS	OAK & WALNUT TABLE TOPS, STRAP BASE, HEX TABLE, TRANSIT SEATING, ONE TON STOOLS, MACHINE BENCH, SHUFFLEBOARD TABLE, GAME TABLE	RACHEL STIENECKER	SENIOR ACCOUNT MANAGER	RACHEL@CROWWORKS.COM	(614) 796-6997
		AUDREY SEMINARA		AUDREY.SEMINARA@CROWWORKS.COM	(614) 301-2938
FOOD SERVICE SEATING (FSS)	PATIO SEATING, AMES CHAIR, TRENTON STOOLS	MEAGAN HSING	SALES SUPPORT	SALES@FOODSERVICESEATING.COM	(909) 755-9657
		GORDIE VERK	OWNER	GORDIE@FOODSERVICESEATING.COM	(416) 574-2124
FRANKFORD UMBRELLAS	PATIO UMBRELLAS	MARC KAUFER	PRESIDENT	MARC@FRANKFORDUMBRELLAS.COM	(856) 222-4134
		ANGELA		ANGELA@FRANKFORDUMBRELLAS.COM	
MILLENNIUM SEATING	VITRO CHAIR	JANET GREGOIRE		JANET@MILLENNIUMSEATING.COM	(866) 379-8422 EXT. 111
		JAMES SAVITSKE	TEAM LEAD	JSAVITSKE@MILLENNIUMSEATING.COM	(770) 565-1965 X131
SOFT TOUCH SEATING	SPECIALTY BOOTHS	MEGAN VICKERS	PROJECT MANAGER	MVICKERS@SOFTTOUCHFURNITURE.COM	(330) 545-4204
GRAPHICS + ART					
ADCOLOR	INTERIOR GRAPHICS	LORI MESSNER		LORIMESSNER@ADCOLORINC.COM	(859) 312-0217
CREO	BADGES + FIXTURES	JUSTIN GREEN		JGREEN@CREO-IA.COM	(425)374-5914
		DANA GRANGE		DGRANGE@CREO-IA.COM	
SANDY ALEXANDER	INTERIOR GRAPHICS	LESLIE TOLBERT		LTOLBERT@SANDYINC.COM	(818) 842-7150
		ANGELA VICKERS		AVICKERS@SANDYINC.COM	
LIGHTING					
CED (STUSSER)	FULL LIGHTING PACKAGE	JANELLE YOSHIMOTO (YOSHI)	CED NATIONAL ACCOUNT	JANELLE.YOSHIMOTO@CED.COM	(206) 694-6534
		ALEX KNIPP	CED NATIONAL ACCOUNT	ALEX.KNIPP@CED.COM	(206) 694-6694
		GREG APPLEGATE	CED NATIONAL ACCOUNT	GREG.APPLEGATE@CED.COM	(206) 623-1501
			ORDERS	MOD@CED.COM	
GRAYPANTS	GRAYPANTS PENDANT	JONATHAN JUNKER	CEO	JON.JUNKER@GRAYPANTS.COM	206-409-5316
NORTH COAST	FULL LIGHTING PACKAGE	CHRIS AUSTIN	ACCOUNT MANAGER	CHRIS.AUSTIN@NORTHCOAST.COM	(206) 305-0677
		JORDAN AKHLAGHI	NATIONAL ACCOUNTS	JORDAN.AKHLAGHI@NORTHCOAST.COM	
RESTROOMS + REGULATORY SIGNAGE					
RESTROOM REMODELS	RESTROOM FIXTURES, REGULATORY SIGNS	KEITH VANDERBILT	SALES	KEITH@RESTROOMREMODELS.COM	(617) 500-2554
		KRISLYNN MACIEL	CUSTOMER SUPPORT	KRIS@RESTROOMREMODELS.COM	(978) 525-0008
SIGNAGE + MENUS					
AGI	EXTERIOR SIGNAGE	ROBERT VOIGT	PROJECT MANAGER	RVOIGT@AGI.NET	(865) 560-6088
		RANDY KERR	VP OF SALES	RKERR@AGISIGN.COM	(865) 692-1242 X3248
		SARAH HOLMES	PROJECT MANAGER II	S HOLMES@AGI.NET	(800) 877-7868 X3204
		GRANT WHITFIELD	DIRECTOR OF PROJECT MANAGEMENT	GWHITFIELD@AGI.NET	(865) 560-6088
ATLAS	EXTERIOR SIGNAGE	LUKE FORD		LUKE.F@ATLASBTW.COM	(561) 863-6659 EXT. 2024
		KAYTLYN SANDMEYER	PROJECT MANAGER	KAYTLYN.S@ATLASBTW.COM	(561) 543-5940



2035 168th CT NE
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10.15.21

DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

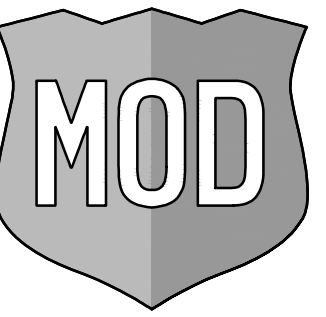
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PERMIT SET 10.15.21

V-001
VENDOR LIST

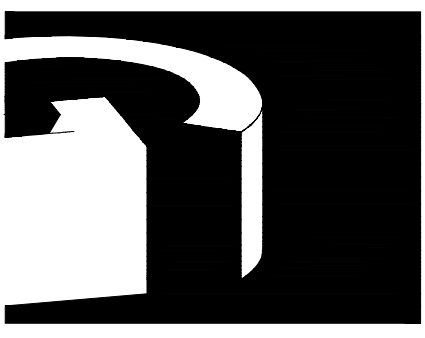
VENDOR LIST CONT.

		CARRIE KERRICK	PROJECT MANAGER	CARRIE.K@ATLASBTW.COM	(561) 863-6659 X2005
		JANENE SINKS	PROJECT MANAGER	JANENE.S@ATLASSIGNINDUSTRIES.US	(561) 863-6659
		ANNETTE SOUTHERN	PROGRAM MANAGER	ANNETTE.S@ATLASSIGNINDUSTRIES.US	(561) 863-6659
		JILL ADINOLFE	PRESIDENT NORTH EAST DIVISION/CEO	JILL.A@ATLASSIGNINDUSTRIES.US	(561) 863-6659
LOREN	EXTERIOR SIGNAGE, DRIVE THRU MENU BOARDS AND SIGNAGE	DAN LORENZON	PRESIDENT	DAN.L@LORENSIGNS.COM	(562) 328-4800
		CARLA TOLEDO	DIRECTOR OF PROJECT MANAGEMENT	CARLA.T@LORENSIGNS.COM	(562) 946-7545 EXT. 133
VGS	INTERIOR MENU BOARDS	ANDY SCHILLIG	DIRECTOR OF NEW BUSINESS DEVELOPMENT	ASCHILLIG@VGS-INC.COM	(201) 528-9683
		ERICKA MARGARITONDO	ACCOUNT MANAGER	MARGARITONDO@VGS-INC.COM	(201) 528-9651
		ROSE ROMANO		RROMANO@VGS-INC.COM	(201) 528-9112
				MODPIZZA@VGS-INC.COM	
WALTON SIGNAGE	OPEN SIGN, ORDER HERE SIGN, ONLINE PICKUP SIGN, ARROW SIGN	LAURA MONROE	EXECUTIVE VP	LMONROE@WALTONSIGNAGE.COM	(210) 419-9250
		ERIN WADE	VP OF PROGRAM MANAGEMENT	EWADE@WALTONSIGNAGE.COM	(210) 823-2386
		MARISOL JAUREZ	DIRECTOR OF PROGRAM MANAGEMENT	MJUAEREZ@WALTONSIGNAGE.COM	(210) 906-5986
		DARIAN BEACHY	VP OF SPECS	DBEACHY@WALTONSIGNAGE.COM	



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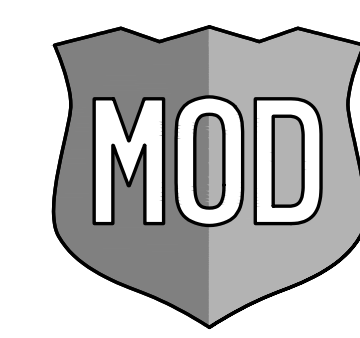
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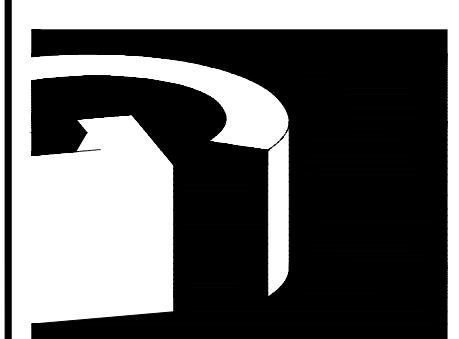
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V-002
VENDOR LIST



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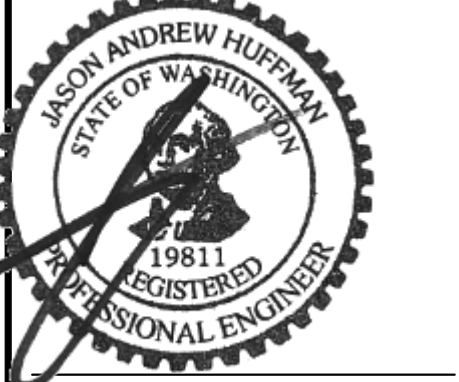
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CONSULTANT



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750 Brooksedge Blvd.
Westerville, Ohio 43081
phone: 614.839.4639
fax: 614.839.2222
www.mengineering.us.com

SEALED



10/14/2021

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PERMIT SET

H-100
KITCHEN HOOD DRAWING

REVISIONS	
NO.	DESCRIPTION

CAPTIVE
Seattle Office
www.captiveaire.com

MOD Pizza - Kirkland WA
230 Main St.
Kirkland WA 98033

DATE: 9/23/2021
DWG.#: 5103815
DRAWN BY: RTB - 85
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1

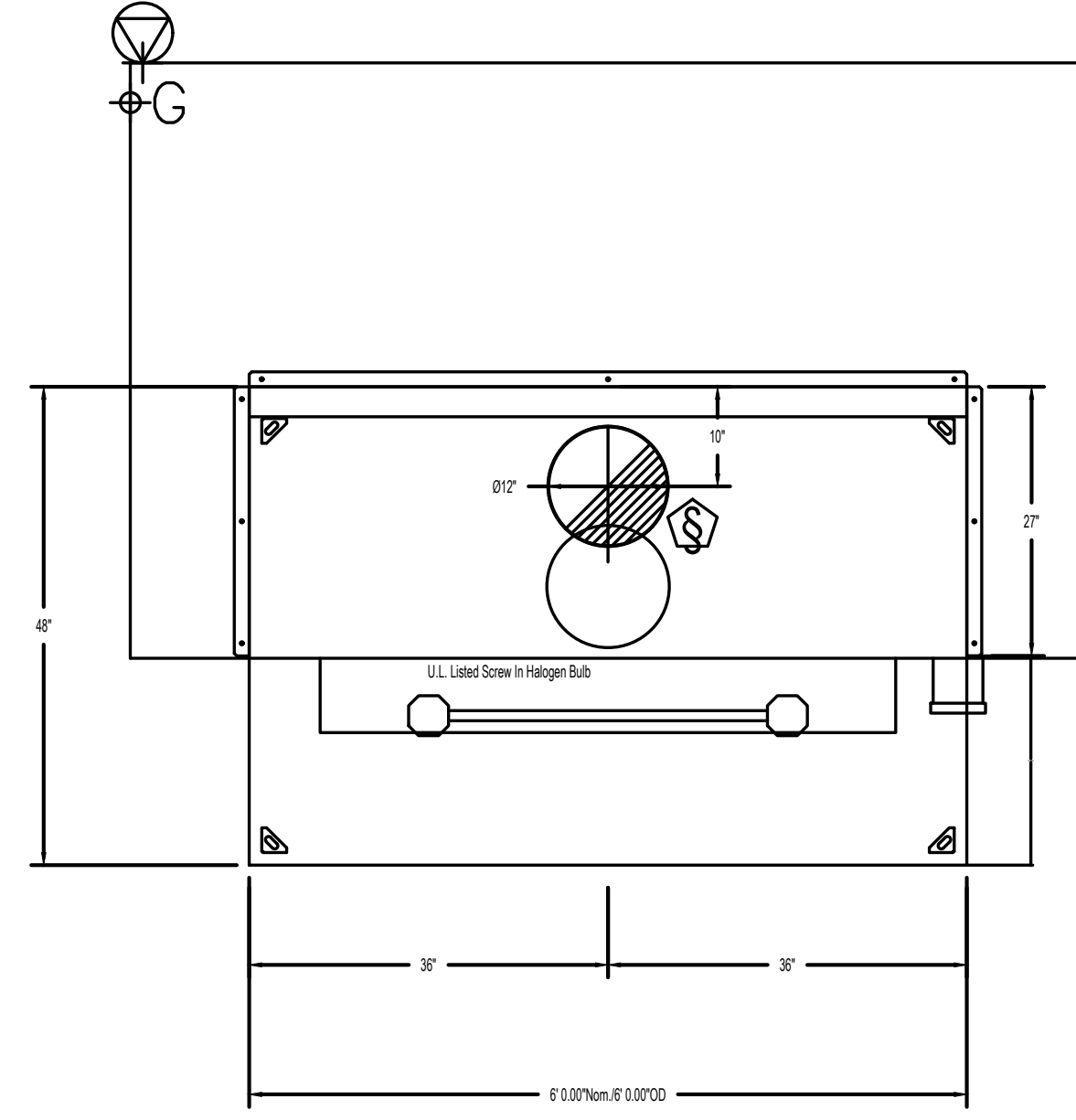
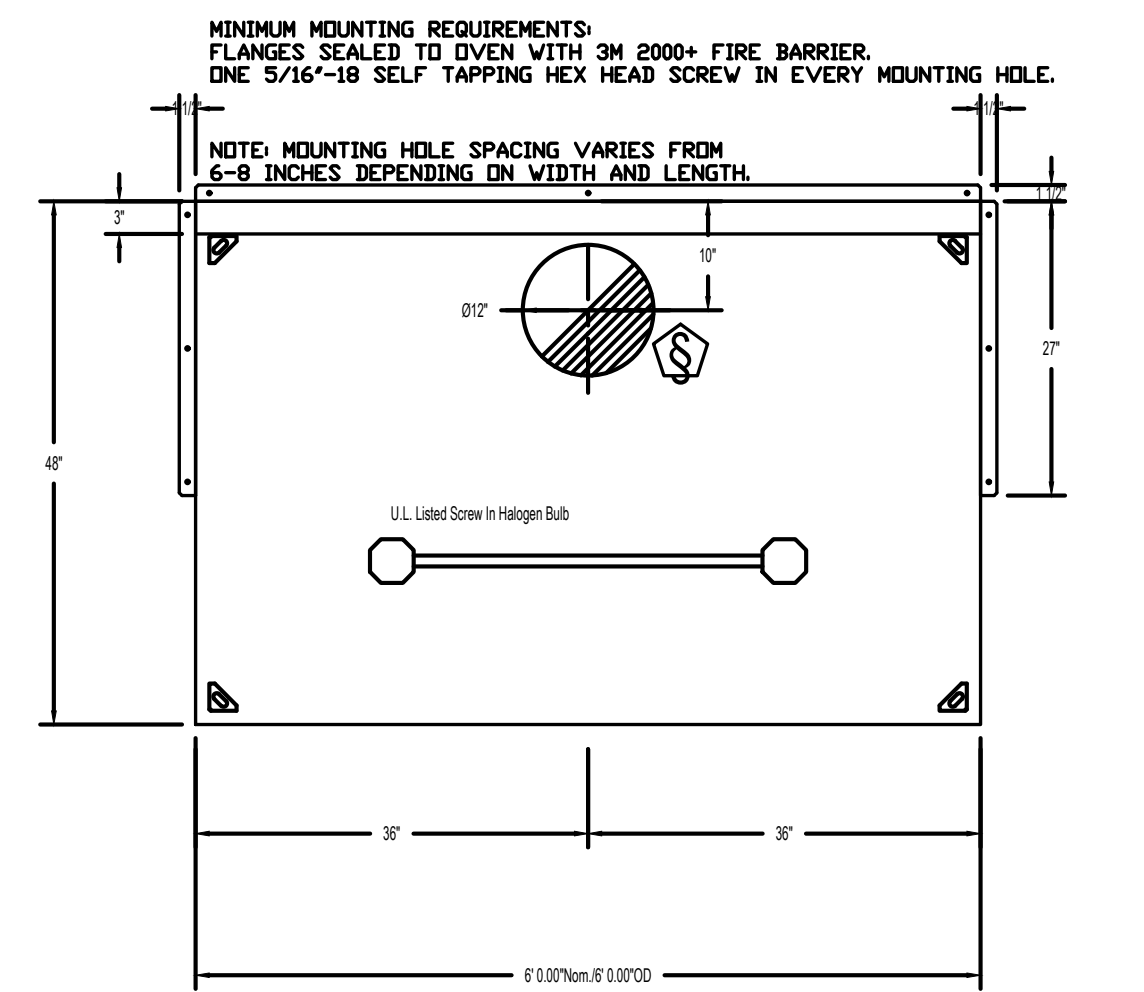
FOR QUESTIONS, CALL THE
Seattle Office
REGION 85
PHONE: (425) 212-5996
EMAIL: reg85@captiveaire.com

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

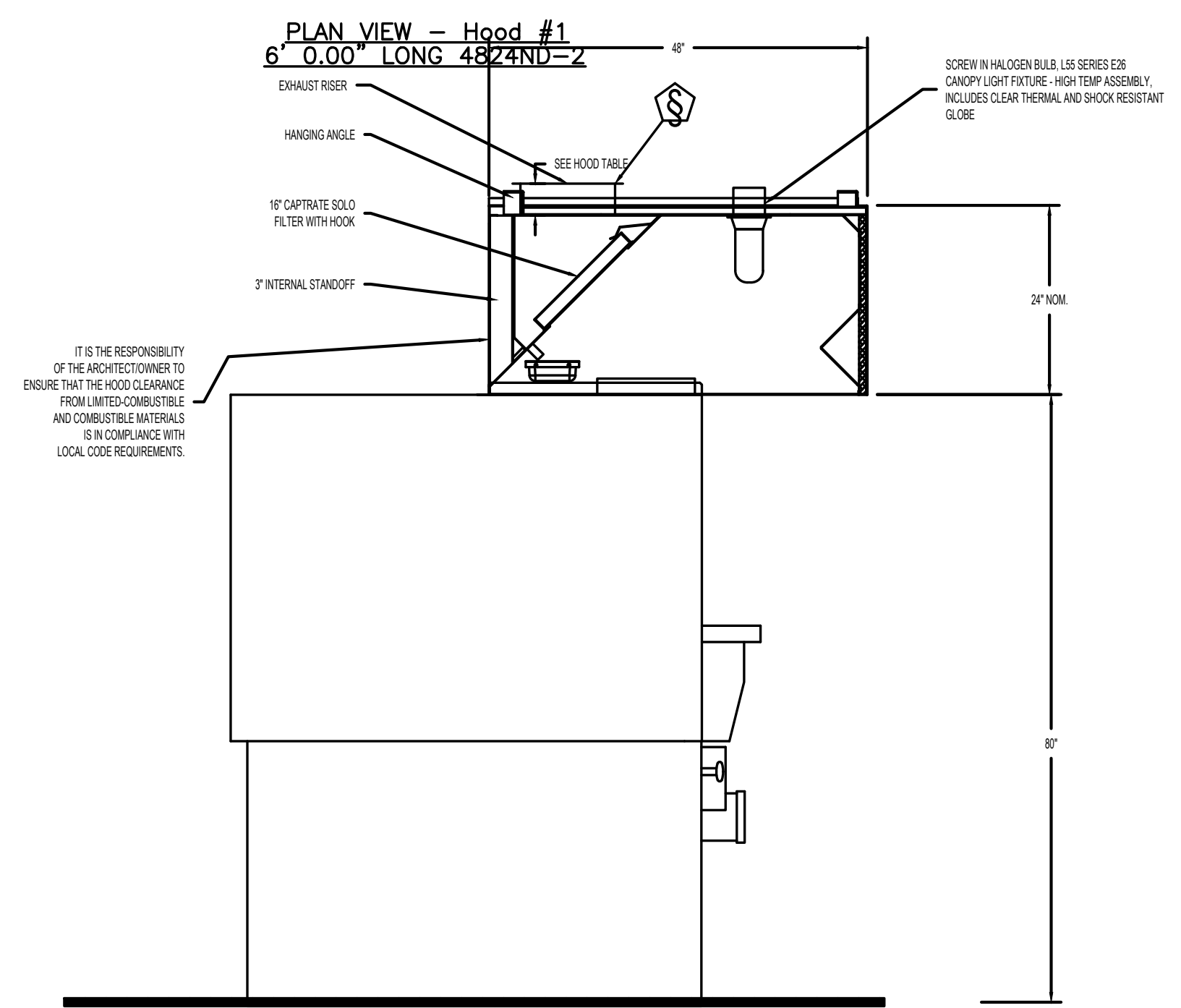
HOOD INFORMATION - JOB#5103815										EXHAUST PLENUM RISER(S)				HOOD CONSTRUCTION		HOOD CONFIG			
HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FIT	TOTAL EXH CFM	WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	END TO END	ROW	
1		4824 ND-2	CAPTIVEAIRE	6' 0"	450 DEG	I	MEDIUM	150	900			4"	12"	900	1146	-0.378"	3/4 SS 100%	ALONE	ALONE

HOOD INFORMATION										UTILITY CABINET(S)				FIRE SYSTEM		HOOD HANGING WEIGHT	
HOOD NO	TAG	TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	PIPING	WEIGHT
1		CAPTIRATE SOLO FILTER	4	16"	16"	85% SEE FILTER SPEC	2	SCREW IN HALOGEN	NO							YES	292 LBS

HOOD OPTIONS		OPTION
1		FIELD WRAPPER 4.00' HIGH FRONT, LEFT, RIGHT, BACK. FINISHED BACK - GROUND/POLISH 72.00' LONG. RISER SENSOR INSTALL 6IN PLEN. PIZZA OVEN TOP MOUNT FLANGES



PLAN VIEW - Hood #1
6' 0.00" LONG 4824ND-2



SECTION VIEW - MODEL 4824ND-2
HOOD - #1

- 1) OVEN VENT SYSTEM TO BE PROCURED BY CONTRACTOR ONLY FROM CAPTIVE AIRE SYSTEMS REGION 85, 425-212-5996, REG85@CAPTIVEAIRE.COM, NO SUBSTITUTIONS PERMITTED.
- 2) CONTRACTOR TO MEASURE DUCTING IMMEDIATELY AFTER OVEN INSTALLATION AND PROMPTLY PROVIDE INFORMATION TO CAPTIVE AIRE SYSTEMS FOR FABRICATION.
- 3) FABRICATION AND DELIVERY TAKE FOUR (4) WEEKS MINIMUM. INCORPORATE INTO CONSTRUCTION SCHEDULE ACCORDINGLY
- 4) EXHAUST HOOD FIRE SUPPRESSION SYSTEM INDICATED IS SEPARATE FROM CAPTIVE AIRE SCOPE. CONTRACTOR TO INCLUDE, BUT NOT LIMITED TO, GAS VALVE, TANK, CHEMICAL, CARTRIDGE, AUTOMAN, PERMIT, AND SOURCE EXHAUST HOOD FIRE SUPPRESSION LOCALLY TO COMPLY WITH APPLICABLE CODE REQUIREMENTS
- 5) REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR DEVICE LOCATIONS
- 6) BALANCING OF STORE HVAC TO BE INDEPENDENT OF ADJUSTING HOOD EXHAUST FAN AND TO BE COMPLETED AFTER SDV.

SPECIFICATION: CAPTIRATE GREASE-STOP SOLO FILTER

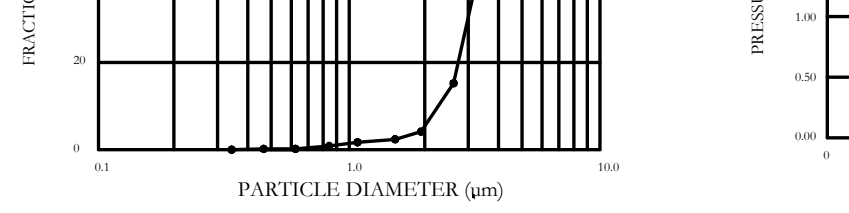
THE CAPTIRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

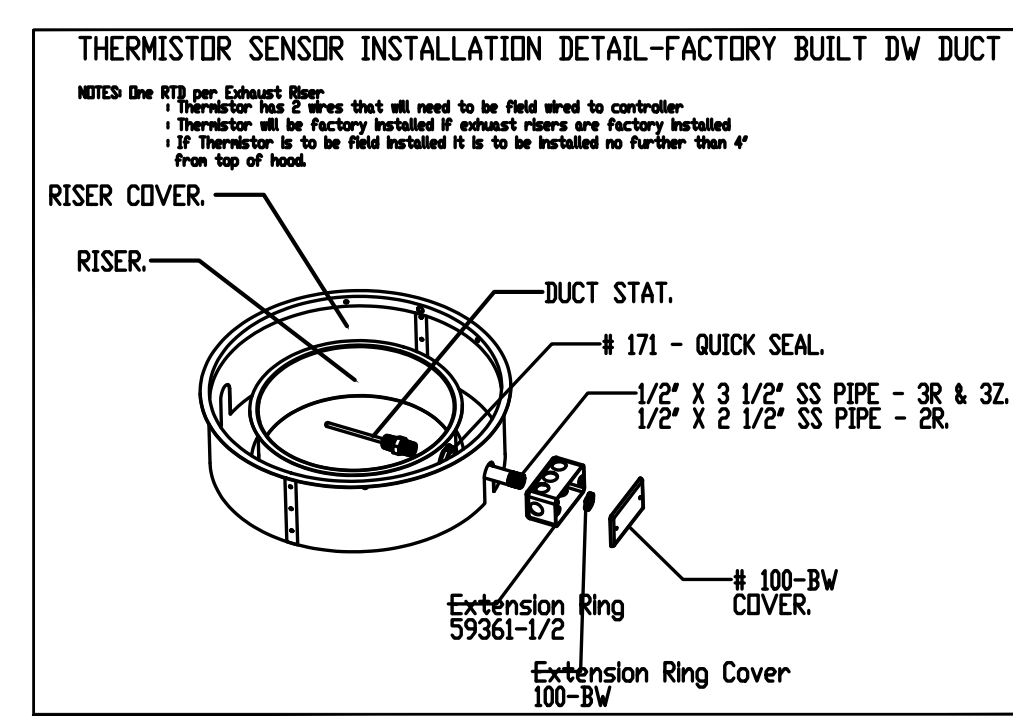
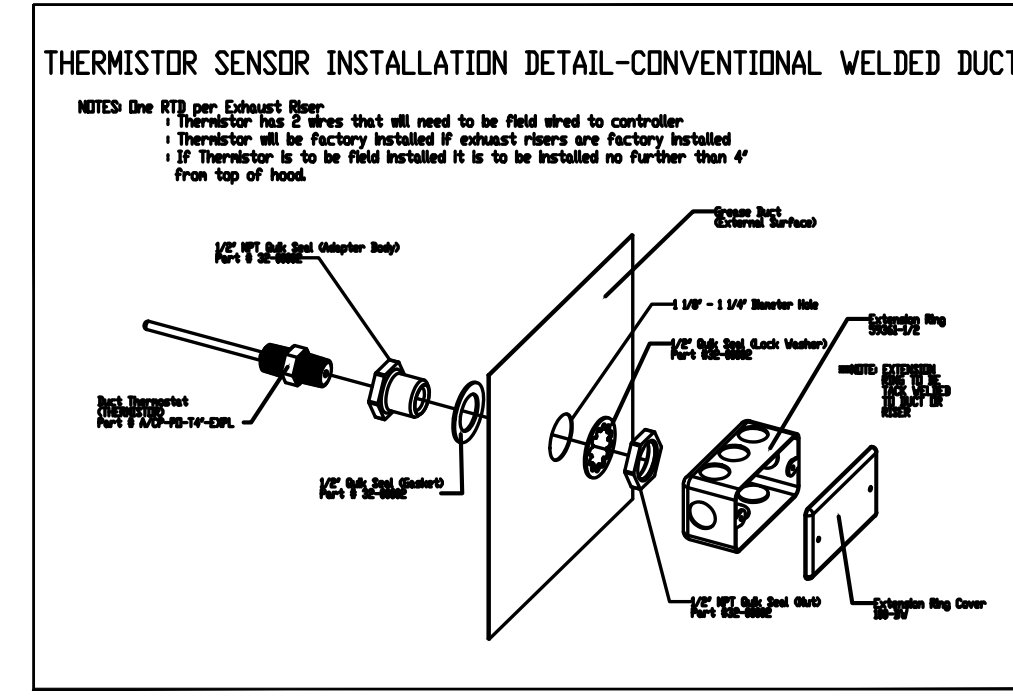
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTIRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05.



CAPTIRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #86
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)
ULC-S649



THERMISTOR - (1) PER EXHAUST COLLAR

FIELD INSTALL IN HOOD EXHAUST COLLAR WITHIN 4' OF CONNECTION TO HOOD (HARDWARE PROVIDED).

WIRE TO SC CONTROL BOARD WITH PROVIDED 2 WIRE LOW VOLTAGE CABLE.

SECTION 23 38 13 13
 SPECIFICATIONS
 TAG: Commercial Kitchen Ventilation Hoods, Listed Commercial Kitchen Hoods

PART 1 - GENERAL

1.1 SUMMARY

- A. The ND2 series is a Type I, wall canopy hood for use over 450°F cooking surface temperatures. The aerodynamic design includes a mechanical baffle and performance enhancing lip for exceptional capture and containment.
- B. The hood shall have the size, shape, and performance specified on drawings.

1.2 SUBMITTALS

- A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the project's requirements and meet Federal, State, and Local codes and regulations.
- B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.
- C. The manufacturer shall supply complete computer generated submittal drawings, including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect, and owner for their use in construction, operation, and maintenance.

1.3 QUALITY ASSURANCE

- A. This hood is ETL-listed to standard UL710, ULCT10, and ULCS646 when installed in accordance with these installation instructions and National Fire Protection Association Standard "NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations."
- B. Built-in compliance with NSF/ANSI Standard 2.
- C. The hood shall be ETL Listed as:
 1. "Exhaust Hood Without Exhaust Damper."
 2. ETL Sanitation Listed and built in accordance with NFPA 96.
 3. The ETL label shall list temperature rating(s) and minimum CFM/R rating(s).

1.4 WARRANTY

- A. All units shall be provided with the following standard warranty:
 1. This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 2 years from date of shipment.
- B. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.
- C. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints, and penetrations of the hood enclosure to the lower outermost perimeter, which directs and captures grease-laden vapor and exhaust gases, shall have a liquid-tight continuous external weld in accordance with NFPA 96.

- B. Duct sizes, CFM, and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

2.2 CONSTRUCTION

- A. Construction shall be type 304 stainless steel.
- B. Double wall insulated front to eliminate condensation and increase rigidity on wide sizes. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- C. Hood shall be equipped with a minimum of four connections for hanger rods. Hood lengths greater than 12' will have added hangers.
- D. Exhaust duct collar to be 4" high with flange.
- E. The grease drain system shall be an enclosed integral part of the hood back and have slopes with an exposed, removable 1/2 grease cup to facilitate cleaning.
- F. An integral baffle to direct grease laden vapors toward the exhaust filter bank.
- G. Hood shall be furnished with UL classified filters, supplied in size and quantity as required by ventilator.
- H. All seams shall be welded and have stainless steel on exposed surfaces.

2.3 LIGHTING

- A. L55 Series canopy light fixture, includes clear thermal and shock resistant globe.
- B. Screw-in halogen bulb. High temperature assembly includes clear and shock resistant globe.

2.4 FILTERS

- A. Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 85% efficient at 9 microns, 76% efficient at 5 microns.

2.5 OPTIONS

- A. Fire Suppression System: UL 300 fire suppression system.

2.6 ACCESSORIES

- A. Wrapper(s) may be installed from the factory or field installed. Wrapper(s) selected:
 1. Wrapper
- B. Miscellaneous option(s) selected:
 1. Pizza Oven Top Mount Flanges – Flanged brackets added to mount hood over pizza oven.
 2. Riser Sensor Install – Sensor set-up for 6" plenum.

PART 3 - EXECUTION

3.1 EXAMINATION

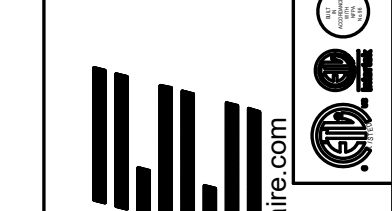
- A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to installer.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

REVISIONS

NO.	DESCRIPTION	DATE



CAPTIVE
 Seattle Office
 1309 Pacific Ave, Everett, WA 98201 PHONE: (425) 212-5996 FAX: (425) 212-5998 EMAIL: reg@captiveware.com
 www.captiveware.com

MOD Pizza - Kirkland WA
 230 Main St,
 Kirkland, WA, 98033

DATE: 9/23/2021

DWG.#: 5103815

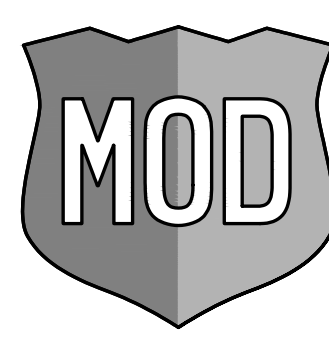
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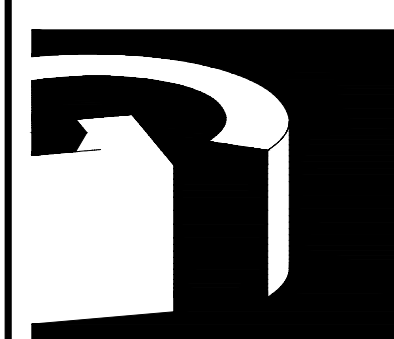
SHEET NO. 2

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 Suite 200
 Bellevue, WA 98008

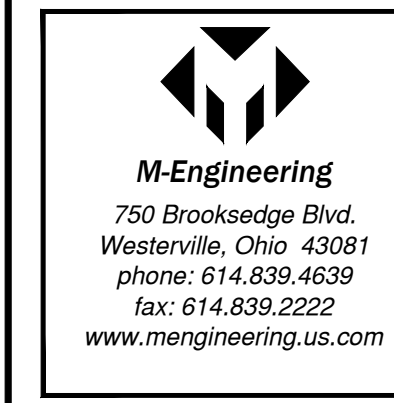
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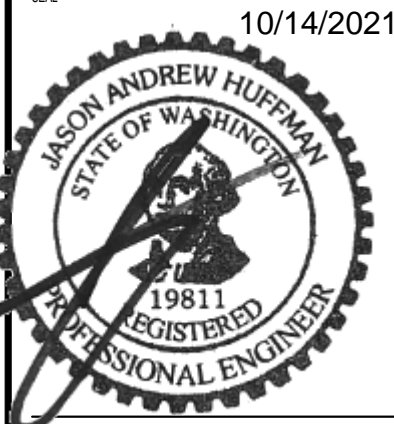
GRAPHITE

Graphite Design Group, LLC
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 Seattle, WA 98101
 206.224.3335

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DATE 10/14/2021



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 KIRKLAND, WA 98033

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PERMIT SET

H-101
 KITCHEN HOOD DRAWING

FIRE SYSTEM INFORMATION – JOB#5103815

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		ANSUL R102	3.0	2	WALL MOUNT LEFT	N/A

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
		0 - 0 - 439861 LARGE BLOWOFF CAP, METAL, TO FIT NEW LASER-ETCHED ANSUL NOZZLES, A0024201.	2	0
		1 - 1 - AT - 3.0 TANK(FBI) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, OR SS ENCLOSURE (UL/ULC)) MACOLA # 01-429862.	0	1
		2 - 2 - AP - AR AUTOMAN RELEASE - ANSUL AUTOMAN MECHANICAL RELEASE (UL), TANK SOLD SEPARATELY. ANSUL PART # 429863; MACOLA # 01-429863.	0	1
		5 - 5 - LIQ-3.0 AGENT - ANSULEX LOW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372.	0	1
		7 - 7 - 101-20 CARTRIDGE - CARBON DIOXIDE 101-20, 3 GALLON CARTRIDGE (R-102).	0	1
		10 - 10 - TLINK LINK - TEST LINK (1 TEST LINK) ANSUL PART # 24916; MACOLA # 20-24916.	0	1
		11 - 11 - MICRO-SDA MICROSWITCH KIT- INCLUDES 2 SWITCHES AND MOUNTING HARDWARE, SINGLE DUAL ELECTRIC SWITCH, ONE STANDARD SWITCH, ONE ALARM DUTY SWITCH-ANSUL PART # 437155; MACOLA # 08-437155.	0	1
		14 - 14 - 419336 NOZZLE - 1W NOZZLE, DUCT/APPLIANCE (REPLACES ANSUL PART# 419347, CAS PART# 419336) A0001266.	1	0
		16 - 16 - 419335 NOZZLE - 1N NOZZLE, PLENUM/APPLIANCE (REPLACES ANSUL PART# 419346, CAS PART# 419335) A0001265.	1	0
		26 - 26 - QSA-3/8 OULK SEAL - 3/8" (UL).	2	0
		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" HOOD SEAL (UL) ANSUL PART # 423253; MACOLA # 32-79768.	1	0
		28 - 28 - S-DET DETECTOR - SERIES (SCISSOR LINKAGE) ANSUL PART # 435547/435548 (OLD # 417369/434480); MACOLA # 05-417369.	3	0
		29 - 29 - ANS-360FL FUSIBLE LINK - 360DEG F, R-102 AND PIRANHA, ANSUL PART # 436088.	3	0
		34 - 34 - RPS-A REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE ROPE) 434618 (OLD MACOLA #06-4835).	0	1
		35 - 35 - PELT PULLEY ELBOW - LOW TEMP. PULLEY ELBOW, SET SCREW TYPE ANSUL PART # 415670; MACOLA # 11-415671.	0	10
		36 - 36 - PELT PULLEY ELBOW - HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART # 423251; MACOLA # 10-45771.	1	0
		ADDITIONAL PARTS TO BE DETERMINED...		

NOTES

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS

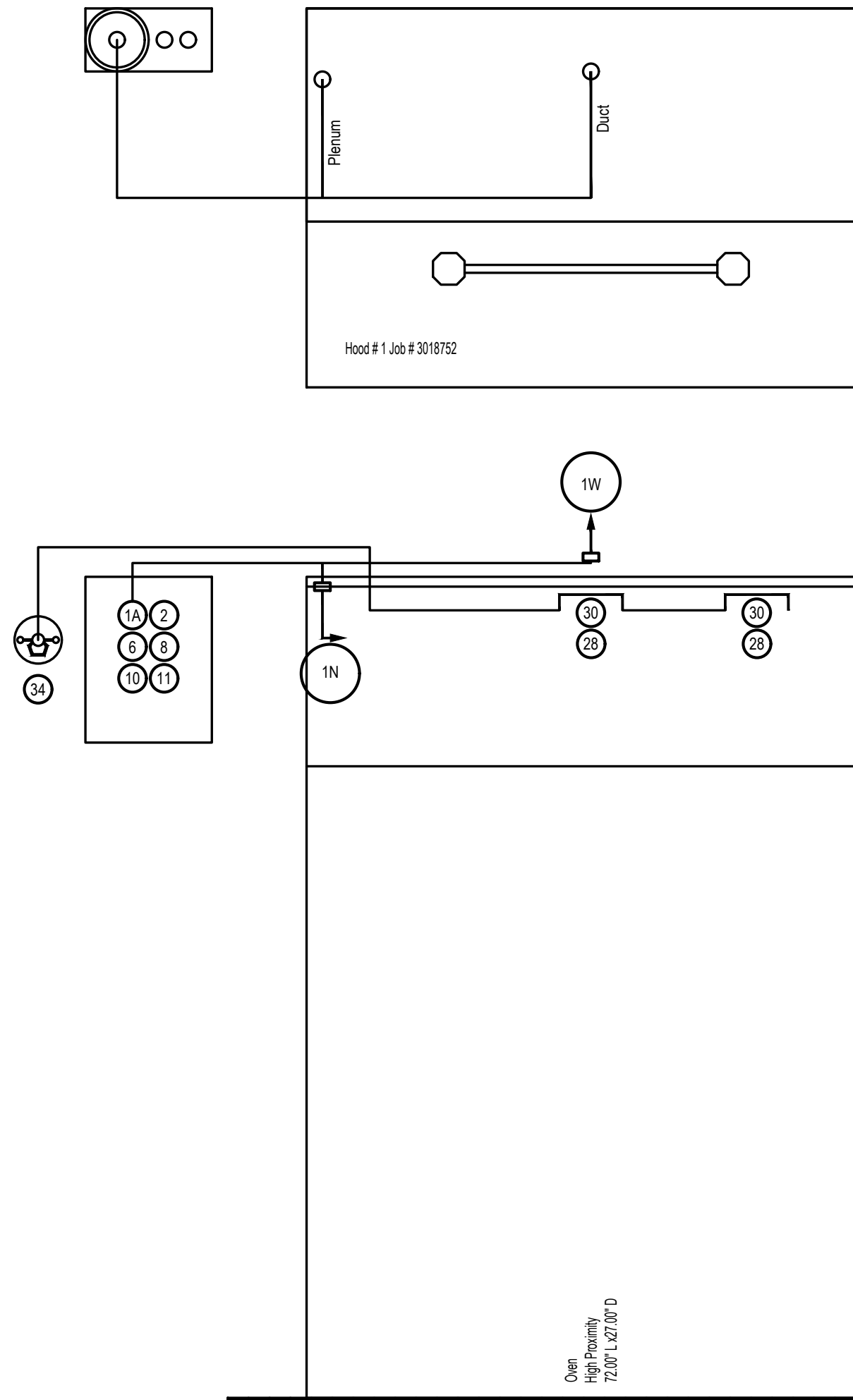
SPECIFICATIONS

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.



Locate Ansul box on the wall 16x21x8"
 Locate Remote Pull Station on wall
 Tie into Building Fire alarm panel if necessary
 Mechanical Gas Valve by local fire distributor

NOTES

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD.

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- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS

Job #: 3018752
 Job Name: MOD Pizza - Salinas Harden Ranch - R1
 Drawn By:
 System Size: ANSUL-1.5 Total FP required: 2
 Hood # 1 6' 0.00" Long x 48" Wide x 24" High
 Riser # 1 Size: 12" Dia.
 Hood # 1 Metal Blow-Off Caps included.

REVISIONS

DESCRIPTION	DATE

CAPTIVE
 Seattle Office
 1309 Pacific Ave., Everett, WA, 98201 PHONE: (425) 212-5996 FAX: (425) 212-5998 EMAIL: reg85@captivefire.com

MOD Pizza - Kirkland WA
 230 Main St,
 Kirkland, WA, 98033

DATE: 9/23/2021
 DWG.#: 5103815
 DRAWN BY: RTB - 85
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING
 SHEET NO. 3

MOD
 2035 158th Ct NE
 Suite 200
 Bellevue, WA 98008

GRAPHITE
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 1809 Seventh Ave, #700
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10/14/2021

 JASON ANDREW HUFFMAN
 STATE OF WASHINGTON
 19811 REGISTERED PROFESSIONAL ENGINEER

DOWNTOWN KIRKLAND
 230 MAIN STREET
 KIRKLAND, WA 98033

ISSUED / REVISED DATE
 PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

H-102
 KITCHEN HOOD DRAWING

EXHAUST FAN INFORMATION -- JOB#5103815

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF	1	CASRE13BD	CAPTIVEAIRE	900	0.500	1380	ODP	0.500	0.3420	1	115	7.6	909 FPM	246	13.3

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF	1	RE13BD - HIGH TEMPERATURE HEAT & SMOKE OPTION.
		1	UTILITY SET GREASE CUP.
		1	EXTRA SET OF BELTS.
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
		1	RE1113 - RAIN CAP ASSEMBLY - INCLUDES HARDWARE AND GASKET.
		1	2 YEAR PARTS WARRANTY.

FAN ACCESSORIES

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

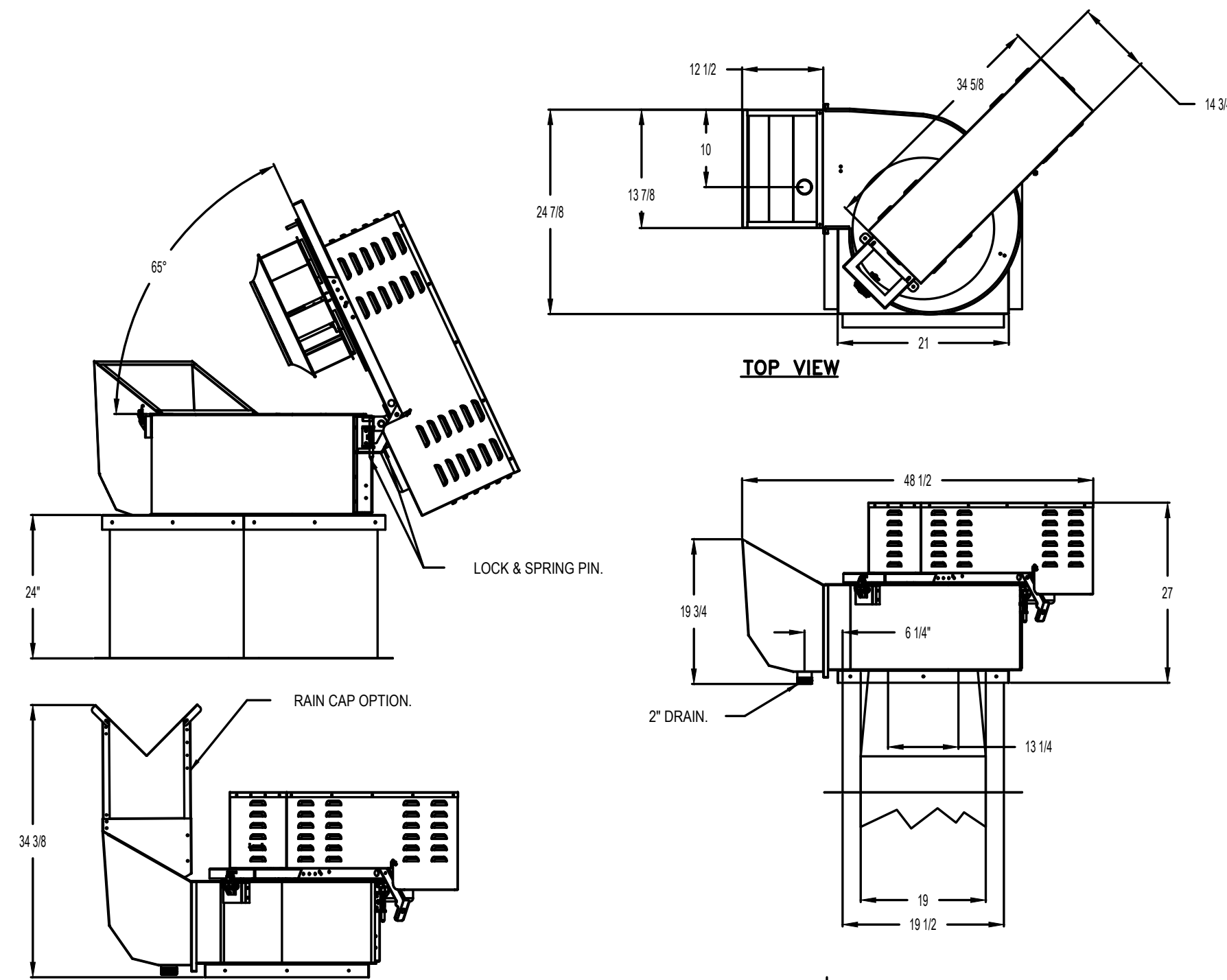
CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	#1	EF	30 LBS	CURB	19.500"W X 19.500"L X 24.000"H ALONG LENGTH, RIGHT VENTED.

ROOF/CURB

- 1) ROOF OPENING BY CONTRACTOR
- 2) ROOF MEMBRANE PATCH AND REPAIR AS DEFINED ON ARCHITECTURAL DRAWINGS
- 3) IF ROOF IS PITCHED, CONTRACTOR TO CONFIRM PITCH OF CURB REQUIRED. THIS NEEDS TO BE PROVIDED TO CAPTIVEAIRE PRIOR TO FABRICATION OF MATERIAL
- 4) CONTRACTOR TO ENSURE ELECTRICAL WHIP IS LONG ENOUGH FOR FAN TO FULLY HINGE OPEN FOR CLEANING AND SERVICE

FAN #1 CASRE13BD-DV - EXHAUST FAN (EF)



FEATURES:

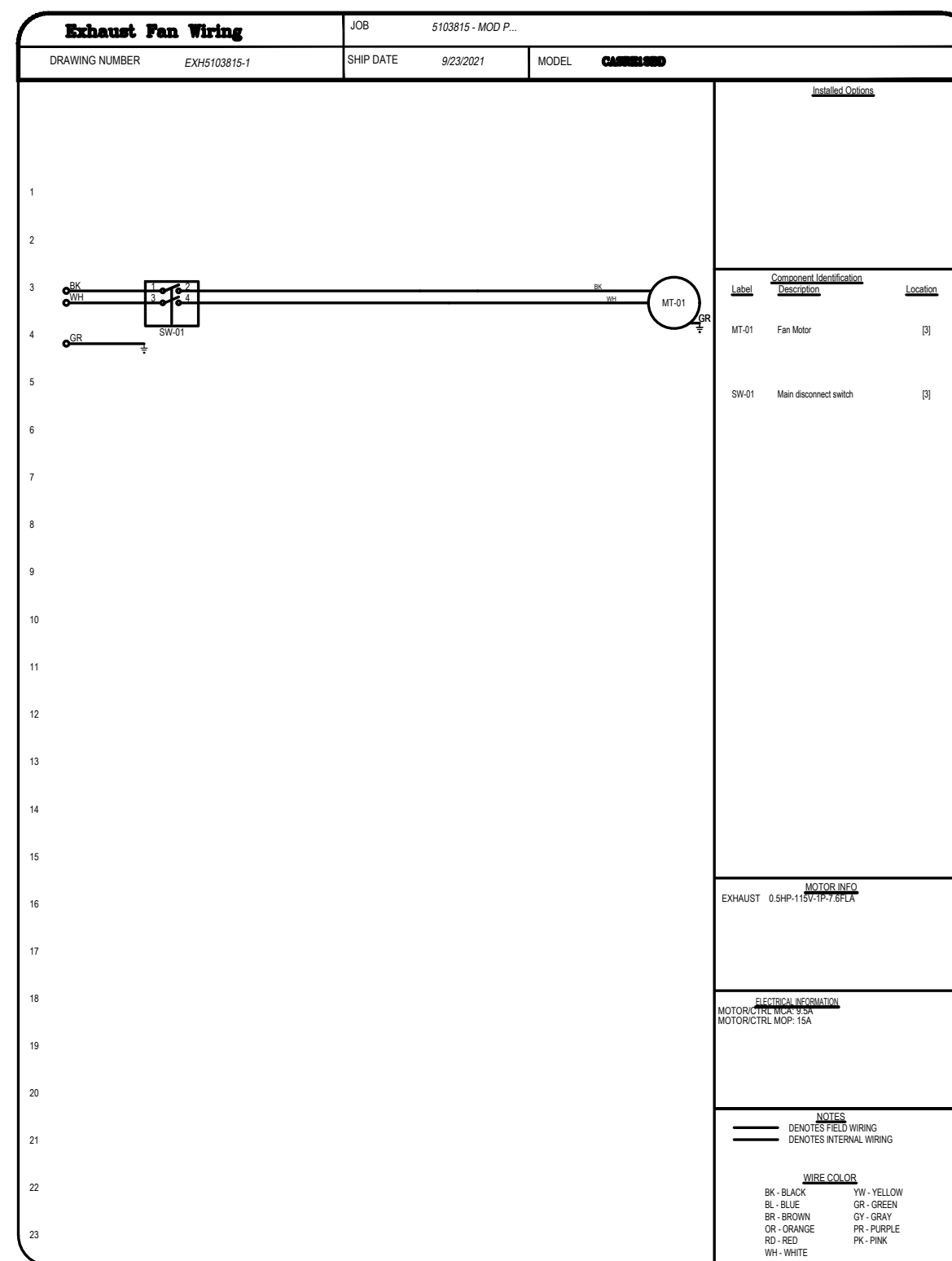
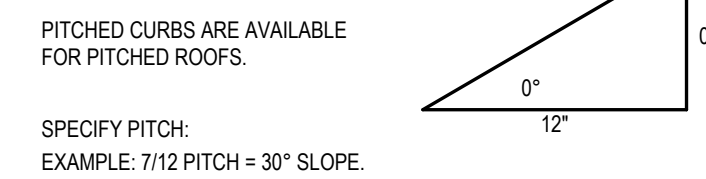
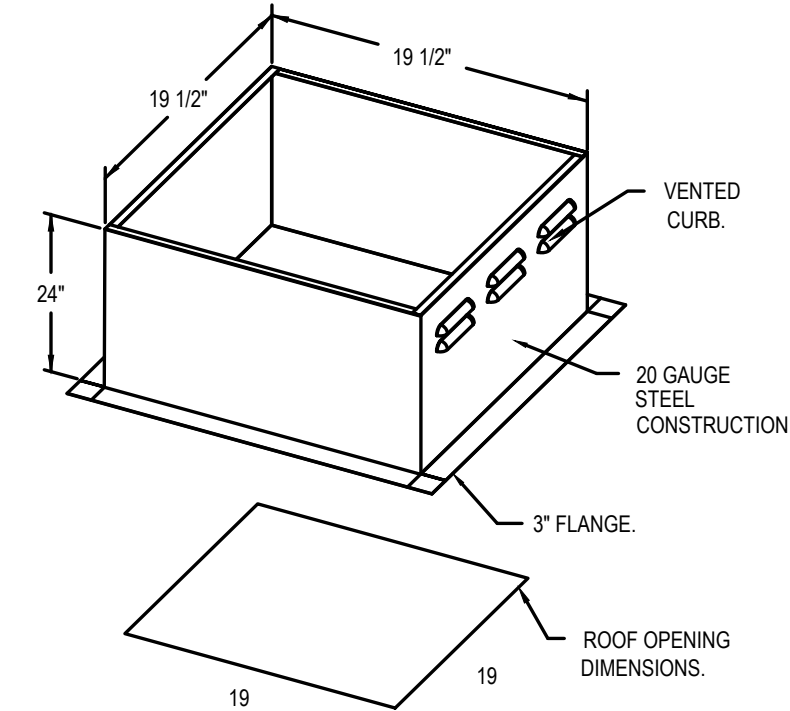
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL762 AND ULC-S645.
- HIGH HEAT OPERATION BELT DRIVE 500°F (260°C).
- HEAT SLINGER.
- GREASE CLASSIFICATION TESTING.
- TILT OUT WHEEL.
- LOCKING PIN FOR POWER PACK.
- MOTOR WEATHER COVER.
- INTERLOCKED DISCONNECT SWITCH.
- NEMA 4X SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST BELT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 500°F (260°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETEIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST BELT & DIRECT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- RE13BD - HIGH TEMPERATURE HEAT & SMOKE OPTION - 572°F CONTINUOUS.
- UTILITY SET GREASE CUP.
- EXTRA SET OF BELTS.
- FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
- RE1113 - RAIN CAP ASSEMBLY - INCLUDES HARDWARE AND GASKET.
- 2 YEAR PARTS WARRANTY.



REVISIONS

DESCRIPTION	DATE

CAPTIVEAIRE
Seattle Office
1309 Pacific Ave, Everett, WA, 98201 PHONE: (425) 212-5996 FAX: (425) 212-5998 EMAIL: reg85@captiveaire.com

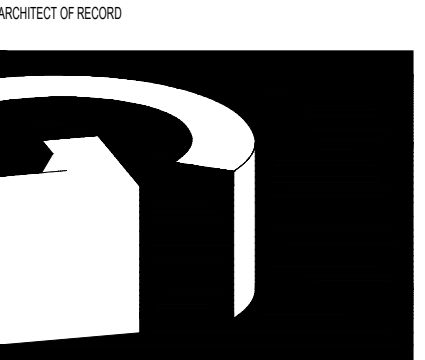
MOD Pizza - Kirkland WA
230 Main St,
Kirkland, WA, 98033

DATE: 9/23/2021
DWG.#: 5103815
DRAWN BY: RTB - 85
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 4

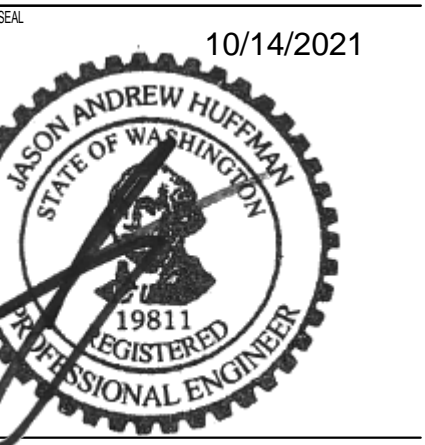


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fax: 614.839.2222
www.mengineering.us.com



DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

ISSUED / REVISED DATE
PERMIT/BID SET 10.15.21

MOD CD TEMPLATE V2.1

PERMIT SET

H-103
KITCHEN HOOD DRAWING

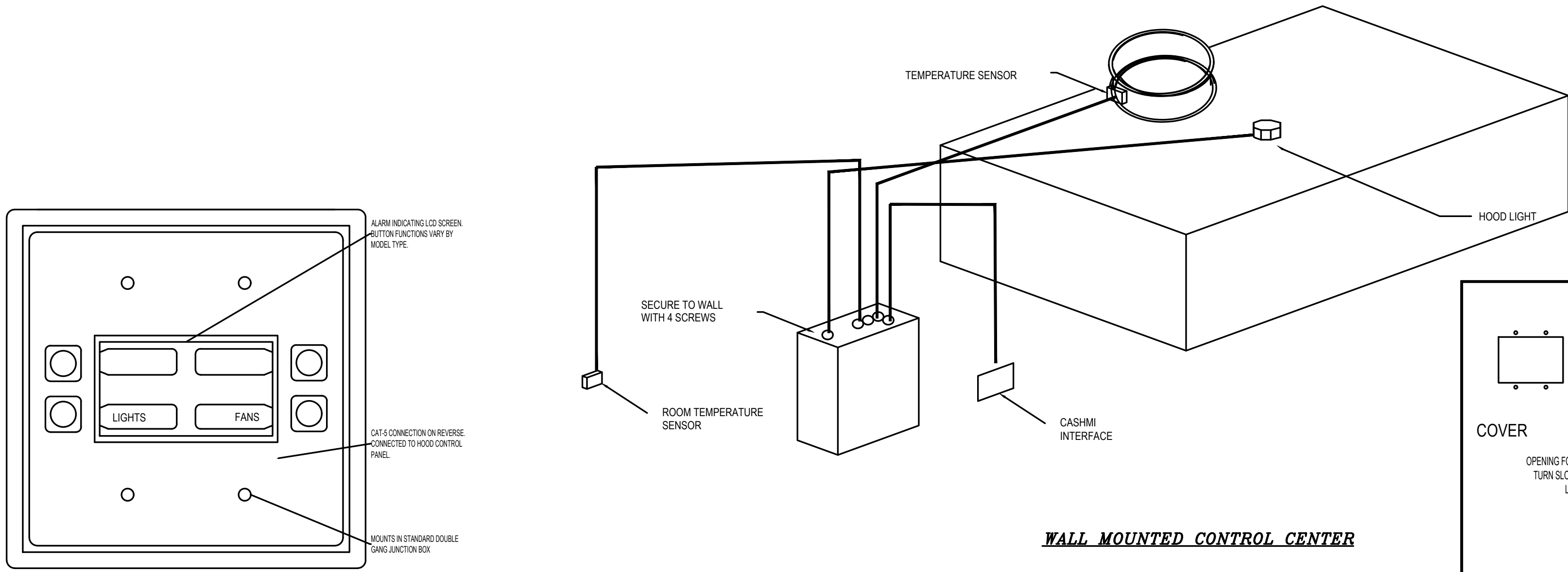
ELECTRICAL PACKAGE - JOB#5103815

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1		SC-110110MA	WALL MOUNT IN SS BOX	08-SHP LOOSE W/ PREWIRE	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF	EXHAUST	1	0.50	115	7.6

Locate Electrical box on the wall 14x18x6"

Locate HMI in double gang box on the wall and connect with RJ45 cable

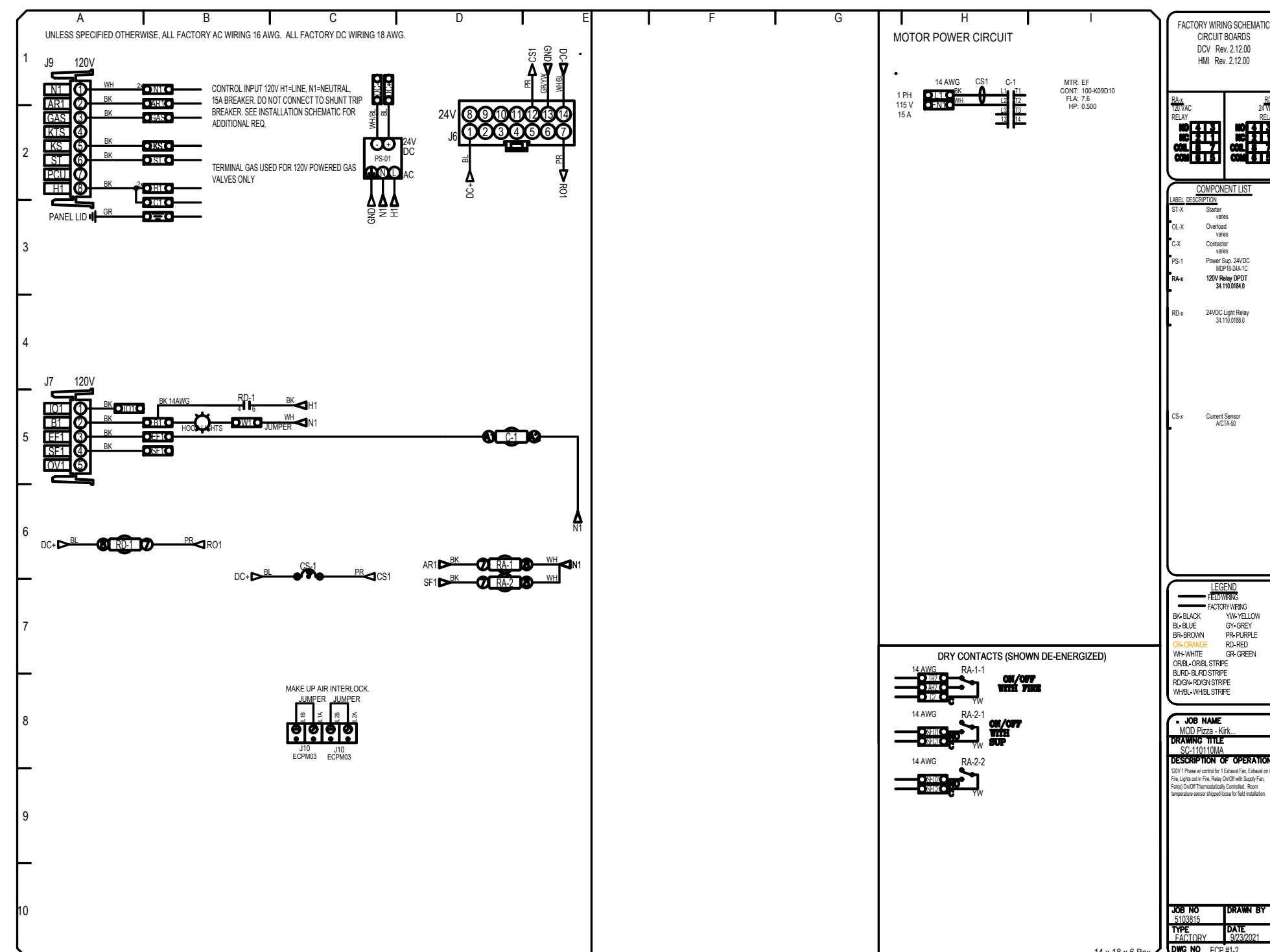
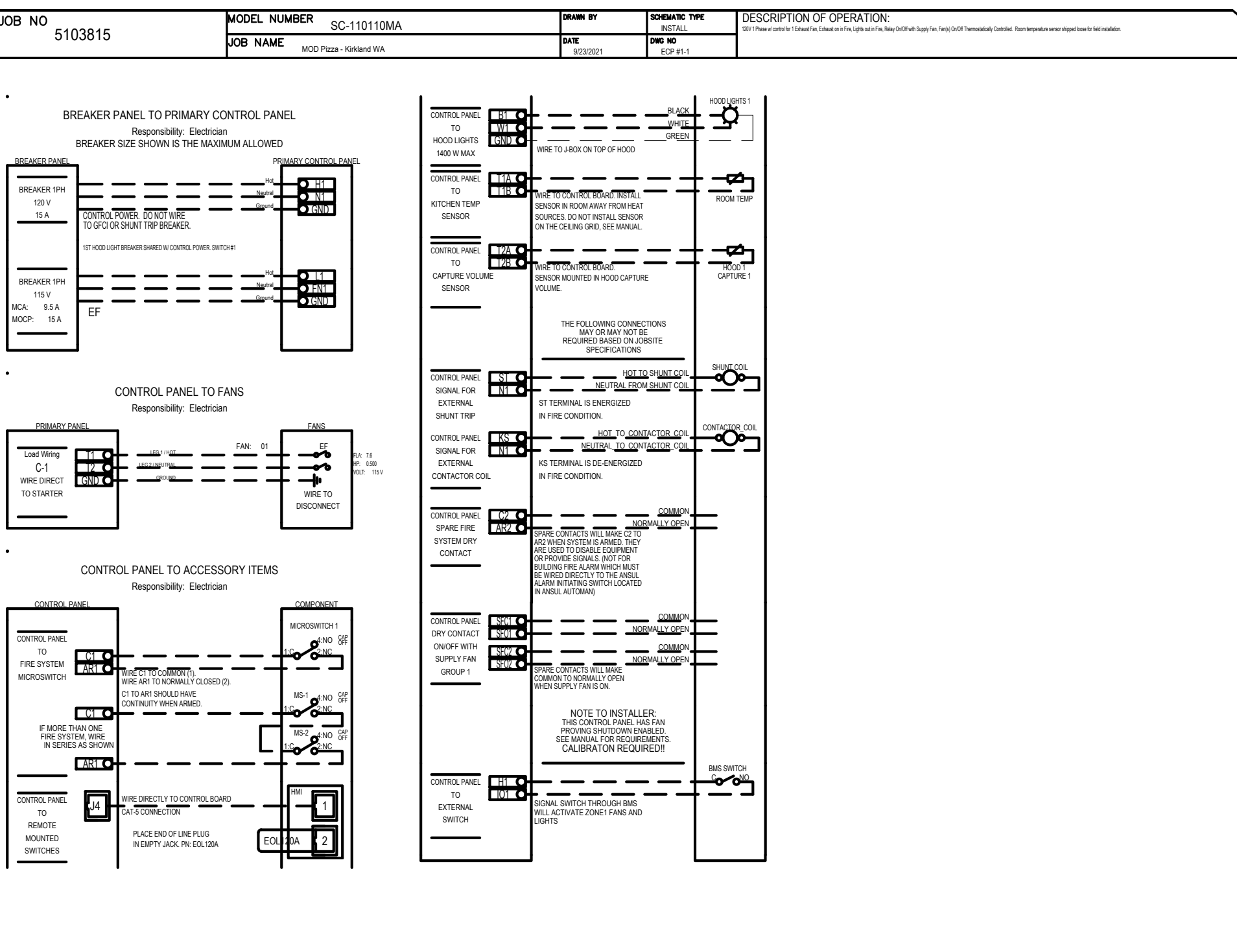
Locate Room Temp sensor on wall 72" AFF, away from heat/cooling loads



HMI- (USER INTERFACE)

MOUNTS IN STANDARD 2 GANG BOX
CONFIRM LOCATION ON ARCH. DRAWING.

HMI CONNECTS TO SC CONTROL BOX
WITH SUPPLIED RJ45 CABLE.



ROOM TEMPERATURE SENSOR

MOUNTS IN STANDARD SINGLE GANG ELECTRICAL BOX.

INSTALL IN LOCATION TO PROVIDE MOST ACCURATE ROOM TEMPERATURE (NEAR RTU T-STAT OR RTU RETURN) AWAY FROM HEAT SOURCES.

WIRE TO SC CONTROL BOARD WITH PROVIDED 2 WIRE LOW VOLTAGE CABLE.

SC-EXTERNAL COMPONENT DETAILS

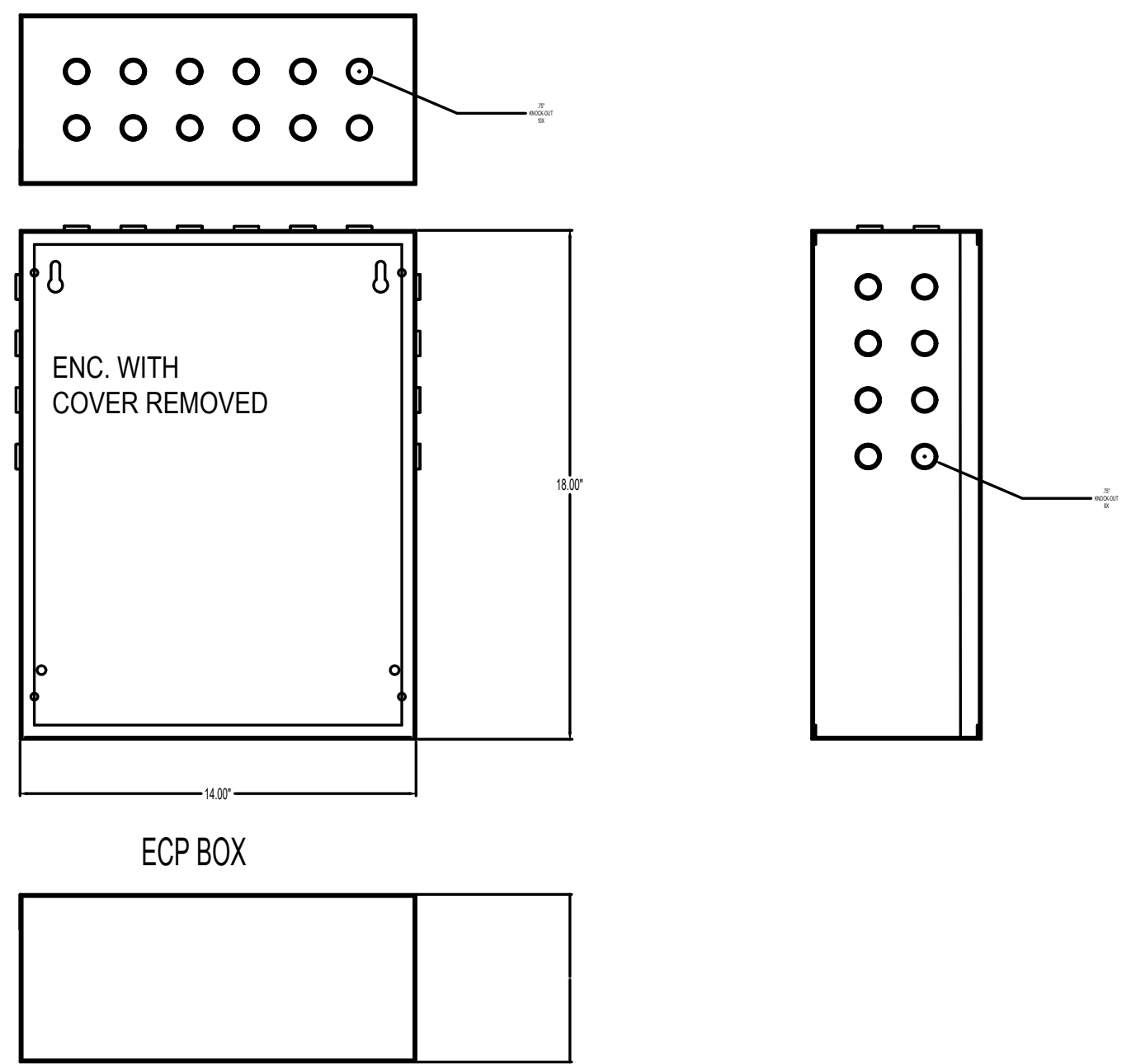
The Electrical Package, typically EP, is designed to thermally activate the exhaust fans for an exhaust hood whenever elevated temperatures are sensed in the exhaust system. The option will meet the requirements of IAC 207.2.1.1 by providing a thermocouple mounted in the duct or hood near to sense increased exhaust temperatures. Controls shall be listed by ETL, (UL 508A).

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 probes located in the duct near shall be constructed of Stainless Steel. A room temperature sensor is also provided for heat resistance in the kitchen space in order to start the fan's based on the temperature differential between the room and the exhaust air in the duct, rather than heat up points. The system is factory pre-set to activate the fans at 10 deg F above the room temperature.

Once the duct temperature reaches the activation point, the exhaust fans will be activated. The controls also provide hysteresis to prevent cycling of the fans after the cooking application have been turned off and the heat in the exhaust system is reduced. The hysteresis is factory set at 2 degrees and will keep the exhaust running until the temperature falls 2 degrees below the activation set point. A hysteresis timer also needs to have the fans running for at least 30 min after being activated by the temperature rise.

The activation and hysteresis settings may be field adjusted on the board LCD interface located inside the control enclosure to meet application needs. The panel is factory configured to shut down supply fans, turn on the exhaust fans and turn off the hood lights in a fire condition.



REVISIONS

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CAPTIVE
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www.captiveair.com

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DATE: 9/23/2021
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DRAWN BY: RTB - 85
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 6

MOD

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DATE: 10/14/2021

JASON ANDREW HUFFMAN
STATE OF WASHINGTON
1981
REGISTERED PROFESSIONAL ENGINEER

DOWNTOWN KIRKLAND
230 MAIN STREET
KIRKLAND, WA 98033

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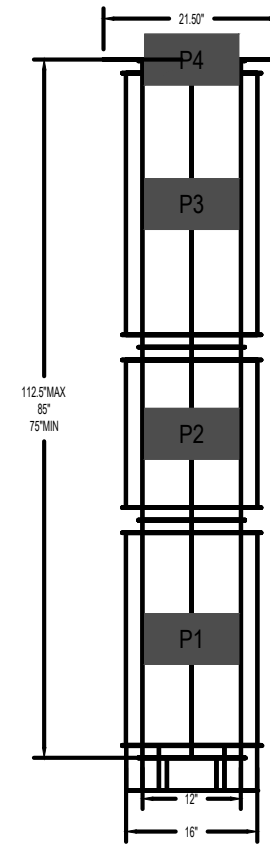
MOD CD TEMPLATE V2.1
PERMIT SET

H-104
KITCHEN HOOD DRAWING

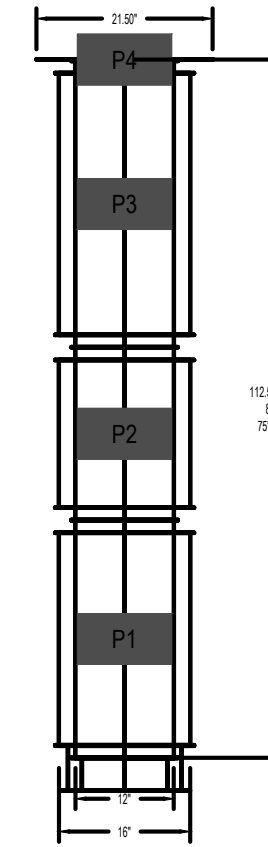
DUCTWORK #1 PARTS - JOB#5103816 DOUBLE WALL

TAG	PART #	QTY	SPM	ZONE	COVERED BY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1202VALT-2R-S	800				0.0064	36.55	1145.92	1	DOUBLE WALL DUCT - 12" INNER DUCT, 29" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL
P2	DW1347DVALD-2R-S	800				0.0046	83.19	1145.92	1	DOUBLE WALL ADJUSTABLE DUCT - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 18" 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 "Y" CLAMPS
P3	DW1202VALTTP-2R-S	800				0.000	41.19	1145.92	1	DOUBLE WALL DUCT - 12" INNER DUCT, 30" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE
P4	DW1912CTP	800				0.027	6.27	1145.92	1	DUCT TO CURB TRANSITION, 18-12" CURB TO 12" DUCT, 18 GA ALUMINIZED STEEL, USED ON ROOFTOP UNITS, DUCTS, 31 & 33.
SYSTEM AT P4						0.387	0.00			
TOTAL HEIGHT							186.90			

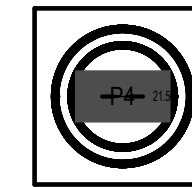
DUCTWORK #1 FRONT VIEW



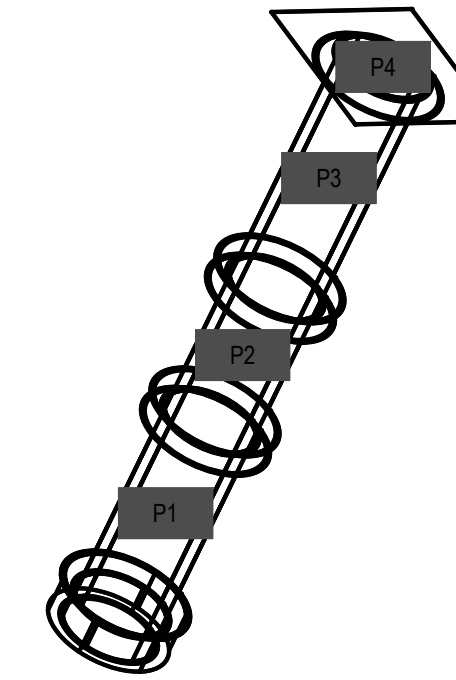
DUCTWORK #1 SIDE VIEW



DUCTWORK #1 TOP VIEW



DUCTWORK #1 SE VIEW



DOUBLE WALL DUCTING CONFORMS TO NFPA-96 REQUIREMENTS AND COMPLIES WITH UL1978 and UL2221.
ETL LISTED UNDER FILE NUMBER 1000082319SAT-006 EEV

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.

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		

CAPTIVE

Seattle Office
1300 Pacific Ave. Everett, WA 98001 PHONE: (425) 212-9998 FAX: (425) 212-9998 EMAIL: info@captiveair.com

MOD Pizza - Kirkland WA
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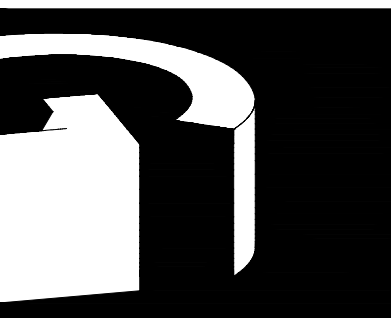
MASTER DRAWING

SHEET NO. 7



2035 158th CT NE
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ARCHITECT OF RECORD



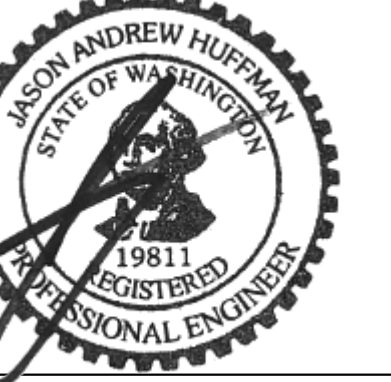
GRAPHITE

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H-105
KITCHEN HOOD DRAWING