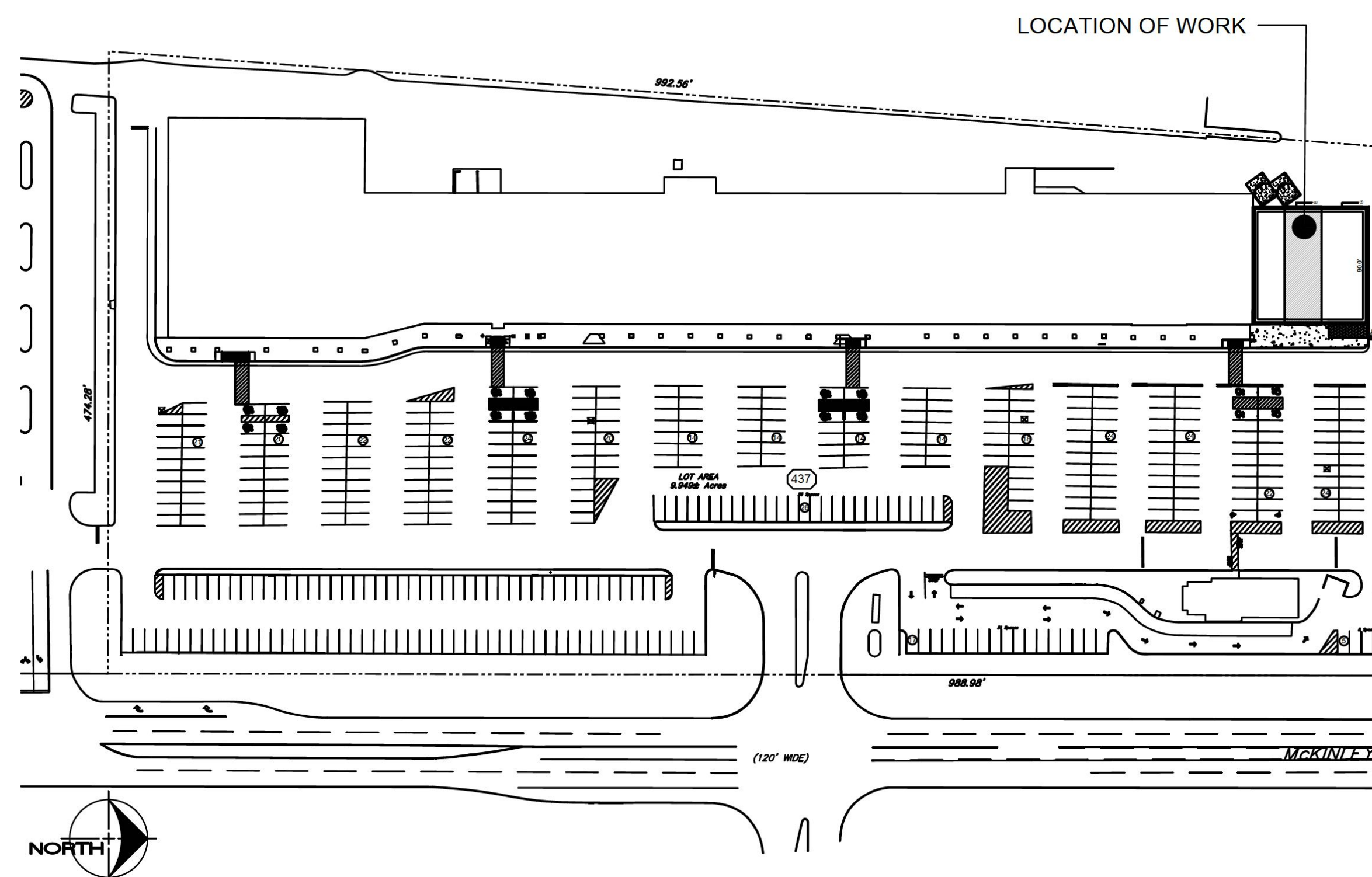


Jersey Mikes SUBS

JERSEY MIKES RESTAURANT Interior Build-Out McKinley Plaza

3670 McKinley Parkway, Hamburg, NY 14219



Location Map

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Symbols

- Sectional cut reference numbers, see section 1 on sheet A-0
- Elevation reference numbers, see Elevation 1 on sheet A-0
- Plan Detail reference numbers, see detail A on sheet A-0
- Partition Type reference letters, see partition type c on sheet referenced
- Door Number reference numbers, see door number 1 on sheet referenced
- Window Number reference numbers, see elevation number 1 through on sheet referenced

Drawing Index

- JM0.0-TITLE SHEET
- JM1.0-FLOOR PLAN
- JM1.1-EQUIPMENT SCHEDULE
- JM2.0-INTERIOR ELEVATIONS
- JM2.1-INTERIOR ELEVATIONS
- JM3.0-MILLWORK DETAILS
- JM3.1-MILLWORK/FURNITURE
- JM4.0-CEILING PLAN
- JM5.0-FLOOR FINISH PLAN
- JM6.0-FINISH / GRAPHICS SCHEDULE
- JM7.0-DETAIL SHEET
- E1.1-ELECTRICAL SPECIFICATIONS
- E1.2-ELECTRICAL POWER PLAN
- E1.3-ELECTRICAL LIGHTING PLAN
- E1.4-ELECTICAL PANELS & RISERS
- H1.1-HVAC FLOOR PLAN
- H2.1-HOOD AND FAN DETAILS
- H2.2-HOOD AND FAN DETAILS
- H2.3-HOOD AND FAN DETAILS
- H3.1-HVAC DETAILS
- P1.1-PLUMBING GENERAL PLAN
- P1.2-PLUMBING SUPPLY & DRAINAGE PLANS
- P1.3-PLUMBING DETAILS

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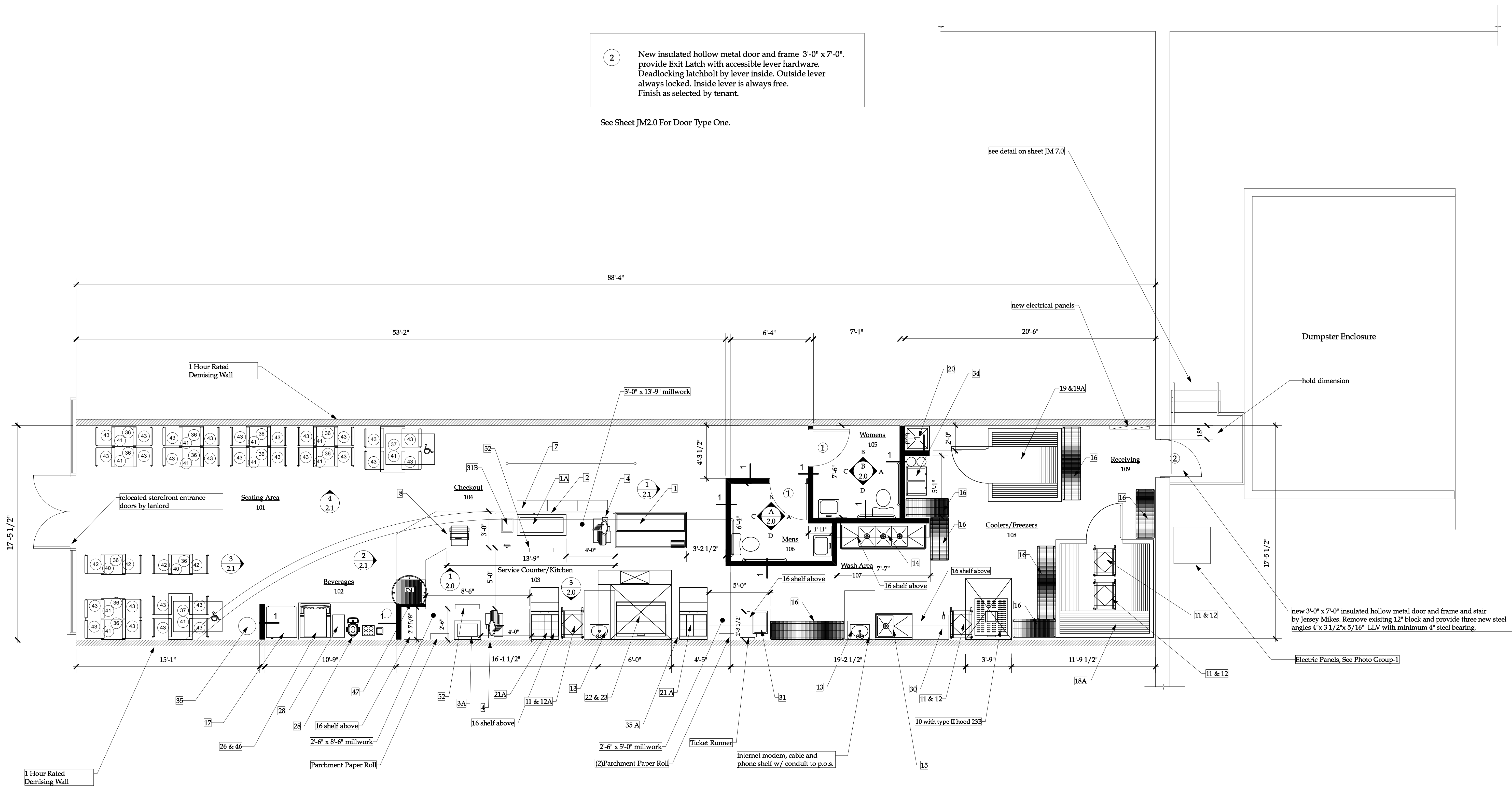
Cover Sheet

JM0.0

JOB NO. 17003

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JERSEY MIKES RESTAURANT
Interior Build-Out
McKinley Plaza
3670 McKinley Parkway, Hamburg, NY 14219



2 New insulated hollow metal door and frame 3'-0" x 7'-0". provide Exit Latch with accessible lever hardware. Deadlocking latchbolt by lever inside. Outside lever always locked. Inside lever is always free. Finish as selected by tenant.

See Sheet JM2.0 For Door Type One.

see detail on sheet JM7.0

Dumpster Enclosure

hold dimension

new 3'-0" x 7'-0" insulated hollow metal door and frame and stair by Jersey Mikes. Remove existing 12" block and provide three new steel angles 4"x 3 1/2"x 5/16" LLV with minimum 4" steel bearing.

Electric Panels. See Photo Group-1

1 FLOOR PLAN
Scale: 1/4" = 1'-0"

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EQUIPMENT SCHEDULE								
KEY	QTY.	ITEM NAME	MANUFACTURER	MODEL NUMBER	SUPPLIER	POWER REQUIRED	PLUMBING REQUIRED	MISC. NOTES
1	1	8" MEAT CASE	HOWARD MCCRAY	SC-CDS34N-6-JM	ECO	8.7AMP 115V/60/1		NSF-7. OUTLET INSTALLED AT 18" AFF
1A	1	4" MEAT CASE	HOWARD MCCRAY	SC-CDS34N-4-JM	ECO	6 AMP 115V/60/1		NSF-7. OUTLET INSTALLED AT 18" AFF
2	1	SNEEZEGUARD	C. R. LAURENCE		GC			C. R. LAURENCE 323-588-1281 X 7710 RICARDO BASULTO
3	1	4" DROP IN COLD UNIT	DELFIELD	N8148-EFN	ECO	7.5 AMP 115V/115V/60V		NO DRAIN REQUIRED. OUTLET INSTALLED AT 18" AFF
3A	1	2" DROP IN COLD UNIT	DELFIELD	N8118-EF	ECO	7.5 AMP 115V/ 115V/60V		NO DRAIN REQUIRED. OUTLET INSTALLED AT 18" AFF
4	2	SLICER	BIZERBA	GSP-H33 WLIFT	ECO	120V/ 60/ 1		OUTLET INSTALLED AT 24" AFF. IN MILLWORK
5	1	MENU BOARD	JMFS	JMFS	GRAPHICS CO.			ORDERED WITH GRAPHICS PACKAGE
6	1	TELEPHONE	VARIES	VARIES	FRANCHISEE			2 LINE PHONE. OUTLET INSTALLED AT 42" AFF
7	3	CHIP DISPLAY UNIT	PEPSI		PEPSI			
8	1	CASH REGISTER	INFOSOFT	UP700	FRANCHISEE			REG. W/ COMM. MODEM, CASH DRAWER, RECEIPT & JOURNAL (2 SETS KEYS). OUTLET INSTALLED AT 18" AFF
9								
10	1	BREAD OVEN	NUVU	QB 5/ 10 AUTOMIST	ECO	29AMP 208V/ 1 or 3ph OR 29AMP 240V/1 or 3ph	1/4" SUPPLY LINE	AUTO MISTER NOT OPTIONAL. OUTLET INSTALLED AT 78" AFF
11	54	BREAD PANS	WINCO	ALXP1826	SMALLWARES CO.			18 GAUGE SHEET PANS
12	2	BREAD RACK	CHANNEL	401AC	SMALLWARES CO.			W/ (2) CURTAIN COVERS, WINDOW DISPLAY, ZIPPER
12A	1	BREAD RACK (STATIONARY)	CHANNEL	DE100517	SMALLWARES CO.			W/ (2) CURTAIN COVERS, WINDOW DISPLAY, ZIPPER
13	2	HAND SINK - WALL HUNG	CHG	FS17D141005JM	ECO		CHG FKL45-4000-RE4 FAUCET	WALL MOUNT HAND SINK W/ TWO 73/4" SIDE SPLASHES AND FAUCET
13A	0	HAND SINK - DROP IN	CHG	FS17__1014JM	ECO		CHG FKL45-4000-RE4 FAUCET	DECK MOUNT HAND SINK WITH ONE 6" END SPLASH. VERIFY QUANTITY
14	1	3 COMPARTMENT SINK	ADVANCE TABCO/CHG	FC-3JM-DB	ECO		CHG KL53-1000-AF4 PRE-RINCE SPRAYER/ ADD-A-FAUCET, KL54-8012 FAUCET AND D50-7100 LEVER WASTES - QTY 3	IF TALLER THAN 9", END SPLASHES ARE REQUIRED
14A	0	3 COMPARTMENT SINK	ADVANCE TABCO/CHG	FC-3JM24-DB	ECO		CHG KL53-1000-AF4 PRE-RINCE SPRAYER/ ADD-A-FAUCET, KL54-8012 FAUCET AND D50-7100 LEVER WASTES - QTY 3	94" MODEL. IF TALLER THAN 9", END SPLASHES ARE REQUIRED
15	1	PREP SINK	ADVANCE TABCO/CHG	FC-1JM-D_	ECO		CHG KL54-8002 FAUCET	ONE COMPARTMENT SINK WITH DRAINBOARD ON EITHER THE LEFT OR RIGHT SIDE
15A	0	PREP SINK	ADVANCE TABCO/CHG	FC-1JM18-D_	ECO		CHG KL54-8002 FAUCET	ONE COMPARTMENT SINK WITH DRAINBOARD ON EITHER THE LEFT OR RIGHT SIDE
16	VARIES	WIRE SHELVING	METRO		ECO			2 TIER WALL SHELVES OVER SINKS & S/S TABLES. 4 TIER COOLER/FREEZER SHELVING & DRY STORAGE. WOOD BLOCKING IS REQUIRED FOR INSTALLATION OF ALL WALL MOUNTED SHELVING.
17	1	1 DOOR PEPSI COOLER	PEPSI	GDM-26	PEPSI			OUTLET INSTALLED AT 18" AFF
17A	0	2 DOOR PEPSI COOLER	PEPSI	GDM-47	PEPSI			OUTLET INSTALLED AT 18" AFF
18	1	WALK IN COOLER	NORLAKE	KL8-74__x__C__36"	ECO	115V FOR LIGHTS AND DOOR HEATER, 15 AMP BREAKER		FLOORLESS, SELF-CONTAINED CAPSULE PAK SYSTEM. FIELD COORDINATE POWER REQUIREMENT
18A	1	CAPSULE PACK	NORLAKE	CPB-__ __ _DCA	ECO	208-230/ 60/ 1 .8 TOTAL SYSTEM AMPS, 8.3 MINIMUM CIRCUIT AMPS, 20A MAX FUSE SIZE		POWER REQUIRED MAY VARY PER SITE. CONFIRM AMPS
19	1	STEP IN FREEZER	NORLAKE	KLF-77__x__C__36"	ECO	115V FOR LIGHTS AND DOOR HEATER, 15 AMP BREAKER		WITH 4" STEP-UP FLOOR PANEL, SELF CONTAINED CAPSULE PAK SYSTEM. FIELD COORDINATE POWER REQUIREMENT
19A	1	CAPSUL PACK	NORLAKE	CPF-__ __ _DCA	ECO	208-230/60/1, 14.9 DEFROST AMPS, 8.4 TOTAL SYSTEM AMPS, 14.9 MINIMUM CIRCUIT AMPS, 15 MAX FUSE SIZE		POWER REQUIRED MAY VARY PER SITE. CONFIRM AMPS
20	1	MOP SINK	EXIST CLEAN & REUSE	2X2'	GC		1/2" SUPPLY 1/2" DRAIN VENT	MOP HANGER AND WALL GUARD
21	2	SANDWICH UNIT	DELFIELD	D4427-8-JM3	ECO	115V/60/1		W/CASTERS AND COVER ENHANCEMENT. OUTLET INSTALLED AT 18" AFF
21A	2	MEGATOP SANDWICH UNIT	DELFIELD	D4427-12M-JM3	ECO	115V/60/1		W/CASTERS AND COVER ENHANCEMENT. OUTLET INSTALLED AT 18" AFF
22	1	GRILLE	IMPERIAL	IR-G48T-XB-JMII	ECO		CONFIRM NATURAL OR LP GAS	OPTION: CASTER, FLEX GAS HOSE, QUICK CONNECT & RESTRAINING DEVICE. BE SURE TO INCLUDE PERFORMANCE CHECK
23	1	EXHAUST HOOD SYSTEM & FIRE SYSTEM	CAPTIVE AIRE	ANSUL	ECO	(4) 115V	FIRE SYSTEM ANSUL	SHOP DRAWINGS ARE REQUIRED. CONTACT: DAVID.LONG@CAPTIVEAIRE.COM AND REG32NA@CAPTIVEAIRE.COM
23A	0	CONDENSATE HOOD	CAPTIVE AIRE	5424VHB	ECO	(1) 115V		SHOP DRAWINGS ARE REQUIRED. CONTACT: DAVID.LONG@CAPTIVEAIRE.COM AND REG32NA@CAPTIVEAIRE.COM
23B	1	CONDENSATE HOOD	CAPTIVE AIRE	6024VHB	ECO	(1) 115V		SHOP DRAWINGS ARE REQUIRED. CONTACT: DAVID.LONG@CAPTIVEAIRE.COM AND REG32NA@CAPTIVEAIRE.COM
24	1	T.V.'S W/ MOUNTING BRACKETS	VARIES	42" MONITOR	FRANCHISEE/ GC	110 VOLT		OUTLET AT 102" AFF. WALL BRACKETS REQUIRED.
25		PORTABLE FIRE EXTINGUISHERS			GC			WALL MOUNTED
26	1	DRINK DISPENSER & ADAPTER KIT	PEPSI	DISPENSER: IDC255, ADAPTOR: 800/6267	PEPSI	9.3 AMP 115V/60/1	1/2" SUPPLY, CONDENSATION DRAIN	COORDINATE W/ PEPSI. OUTLET INSTALLED AT 42" AFF
27	1	FLOOR SAFE	VARIES	VARIES	FRANCHISEE			
28	1	ICED TEA BREWER/DISPENSER	BUNN	TB3Q	LUZIANNE	120V, 14.4 AMP		1-800-627-2094. OUTLET INSTALLED AT 42" AFF
29	1	DELFIELD MEAT/CHEESE CASE	DELFIELD	2FP36	ECO	7.5 AMP 115V/60/1		NO DRAIN REQUIRED. NEMA NO. 5-15 PLUG AT 18" AFF.
30	1	S.S. TABLE 24"X_ "	ADVANCE TABCO	KMG-24__JM	ECO			VERIFY SIZE
30A	0	BACK LINE PREP TABLE	ADVANCE TABCO	TKMS-368_	ECO			
30B	0	S.S. TABLE 30"X30"	ADVANCE TABCO	KMS-300-JM	ECO			VERIFY SIZE
30C	0	S.S. TABLE 24"X_ "	ADVANCE TABCO	KMG-24__JM	ECO			VERIFY SIZE
31	1	COUNTER TOP FOOD WARMER	VOLLRATH	71001 MODEL 1001	SMALLWARES CO.	120V, 5.8 AMP		OUTLET INSTALLED AT 54" AFF
31B	1	RECESSED BACON WARMER	WELLS	HSW6	ECO	120V, 6.9 AMP		NO DRAIN. HARDWIRED INSTALLED AT 18" AFF
32	1	COUNTER SCALE	CAS	ED-30	ECO	AC ADAPTER DC 12V/1A OR 12V/800mA, INTERNAL RECHARGEABLE SEALED ACID BATTERY - 6V DC		SITS ON TOP OF AND POWERS INTO THE MEAT CASE
33	0	UNDER COUNTER DRAWERED REF.	HOSHIZAKI	CRM27-D	ECO			OUTLET INSTALLED AT 18" AFF
33A	1	UNDER COUNTER REF.	HOSHIZAKI	HR24B	ECO	1.15 AMP 115V/60/1. 5-15P		NEMA 5-15P OUTLET INSTALLED AT 18" AFF
34	1	BAG IN BOX SYSTEM	PEPSI	PEPSI	PEPSI	110 / 120V - 20 AMP DUAL OUTLET	1/2" SUPPLY	WATER CONNECTION IS NEEDED FOR THE FILTRATION SYSTEM. OUTLET CAN BE INSTALLED AT 80" AFF.
35	1	REFUSE CONTAINER	ULINE	H-7364	FURNITURE CO.			STAINLESS STEEL FINISH
35A	1	SLIM JIM REFUSE CONTAINER	RUBBERMAID	11"X20"	SMALLWARES CO.			
36	VARIES	TABLE TOPS	ATS	24"X20"	FURNITURE CO.			ADA COMPLIANT TABLETOP
37	VARIES	TABLE TOPS	ATS	24"X45"	FURNITURE CO.			
38	VARIES	BAR COUNTER	GC		GC			SEE FURNITURE DETAIL. BUILD ON SITE
39	VARIES	COMMUNITY TABLE	GC	30"X109"	GC			SUSPEND SURFBOARD ABOVE WITH 3 PENDANTS. REFER TO DETAIL. BUILD ON SITE
40	VARIES	TABLE BASES - HIGH	ATS	BLACK CRINKLE	FURNITURE CO.			
41	VARIES	TABLE BASES - LOW	ATS	BLACK CRINKLE	FURNITURE CO.			2 TABLE BASES TO BE ORDERED FOR ADA TABLES
42	VARIES	CHAIRS - HIGH	ATS		FURNITURE CO.			
43	VARIES	CHAIRS - LOW	ATS		FURNITURE CO.			
44	VARIES	BANQUETTE SEATING	GC		GC			SEE FURNITURE DETAIL. BUILD ON SITE
45	1	WATER HEATER			GC			
46	1	ICE MAKER	HOSHIZAKI	KM-520MAJ	ECO	115V/60 20 AMP BREAKER	PROVIDE DRAIN	OUTLET INSTALLED AT 42" AFF
47	1	PICK UP TOWER	METRO		ECO			CUSTOM METRO SHELVING 63", 24"D, 24"L
48	2	COOKIE DISPLAY	JMFS	JMFS	GRAPHICS CO.			
49	1	JUICE SHELVING	METRO		ECO			METRO SHELVING 7H, 12"D, 42"L
49A	1	JUICE CRATES	JMFS	JMFS	GRAPHICS CO.			
50	VARIES	STANCHIONS	VISIONTRON	VS301 (BLACK)	FRANCHISEE			WWW.CROWDCONTROLWAREHOUSE.COM. SINGLE LINE 7-5'
51	6	CEILING MOUNTED SPEAKERS			SOURCE 1 DISTRIBUTORS			770-977-5774 / 4 UNITS INSTALLED IN DINING ROOM & 1 UNIT IN EACH RESTROOM
52	2	TROUGH	FRANKLEN SHEET METAL	26				24" LONG X 4" WIDE TROUGH WITH SIDE SQUEEGE ATTACHMENT
53	1	BABY CHANGING TABLE			SMALLWARES CO.			TO BE INSTALLED IN WOMENS RESTROOM
54	0	LOCKERS	QUALSERV	DD006402	ECO			TYPICALLY ORDERED WHEN REQ'D BY HD
55	0	AIR CURTAIN	BERNER	CHC10-1036AA	ECO	(1) 120V		OUTLET CAN BE INSTALLED AT 80" AFF.

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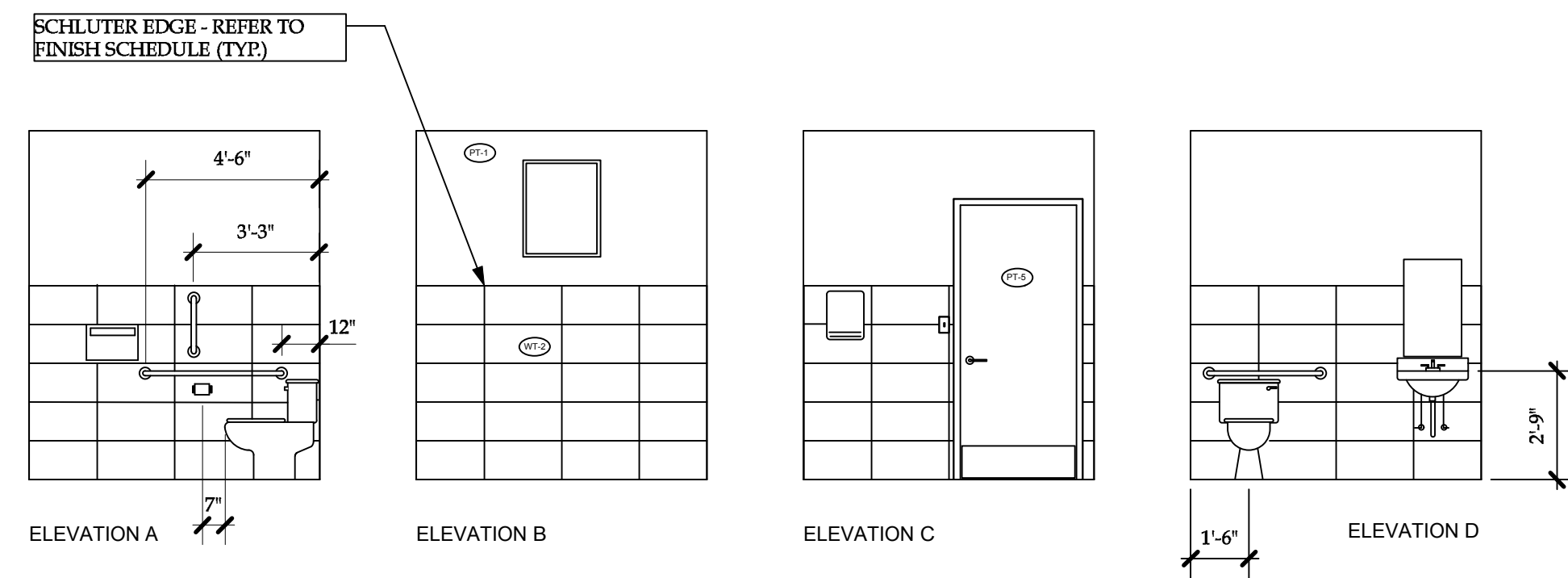
EQUIPMENT SCHEDULE
JM-1.1
 JOB NO. 19022

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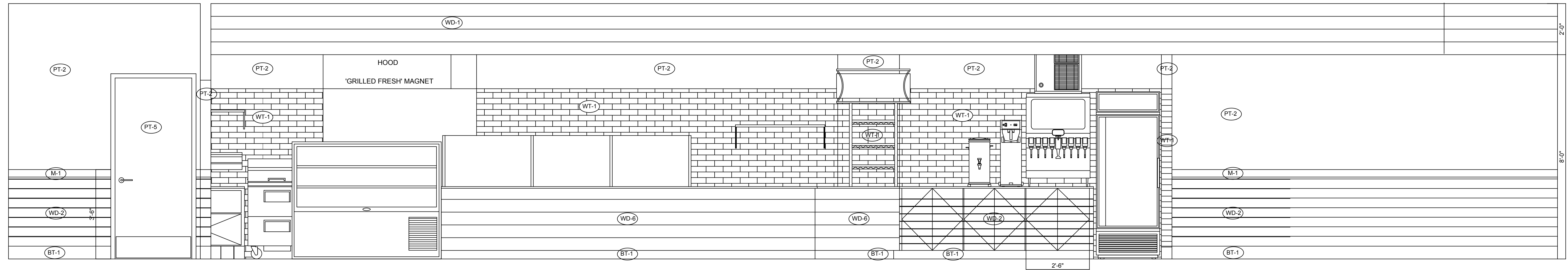
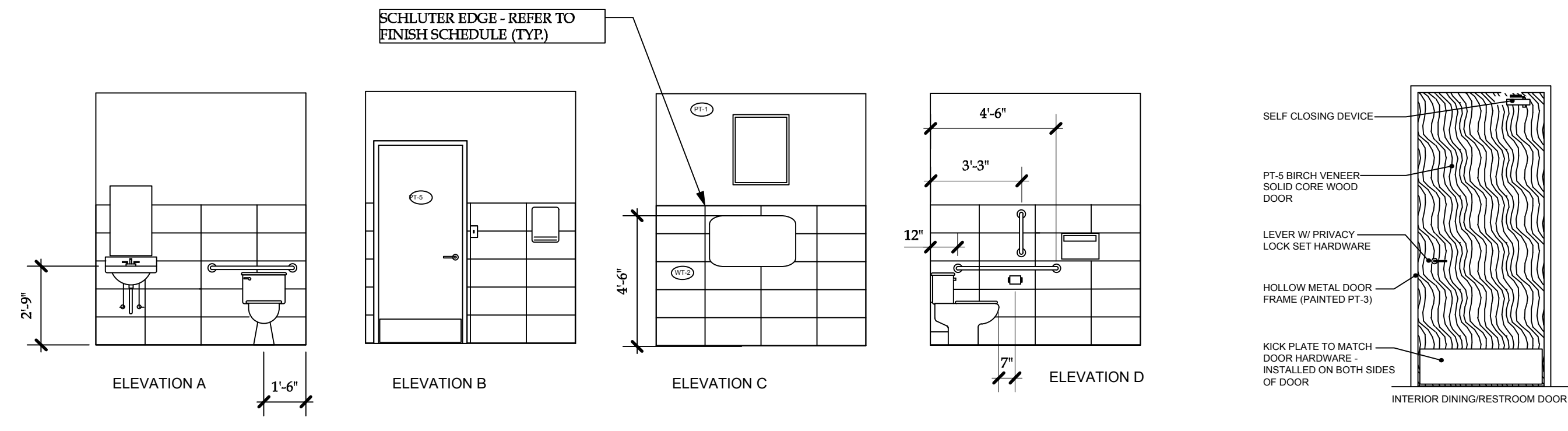
JERSEY MIKES RESTAURANT
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McKinley Plaza
 3670 McKinley Parkway, Hamburg, NY 14219

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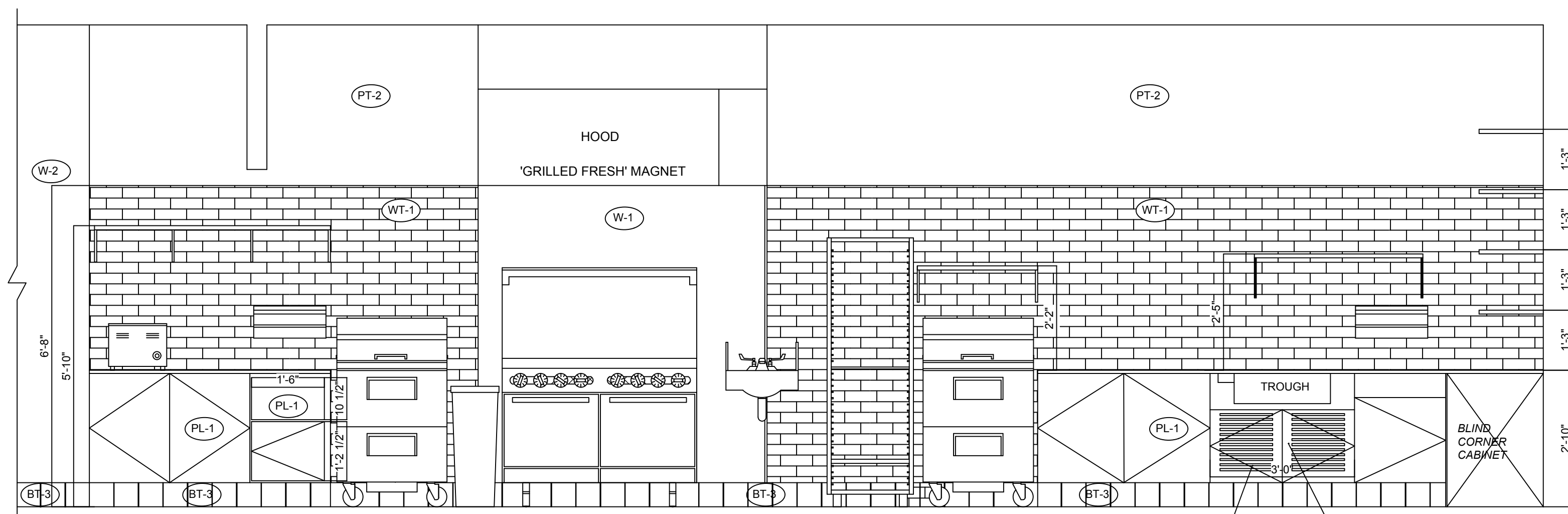
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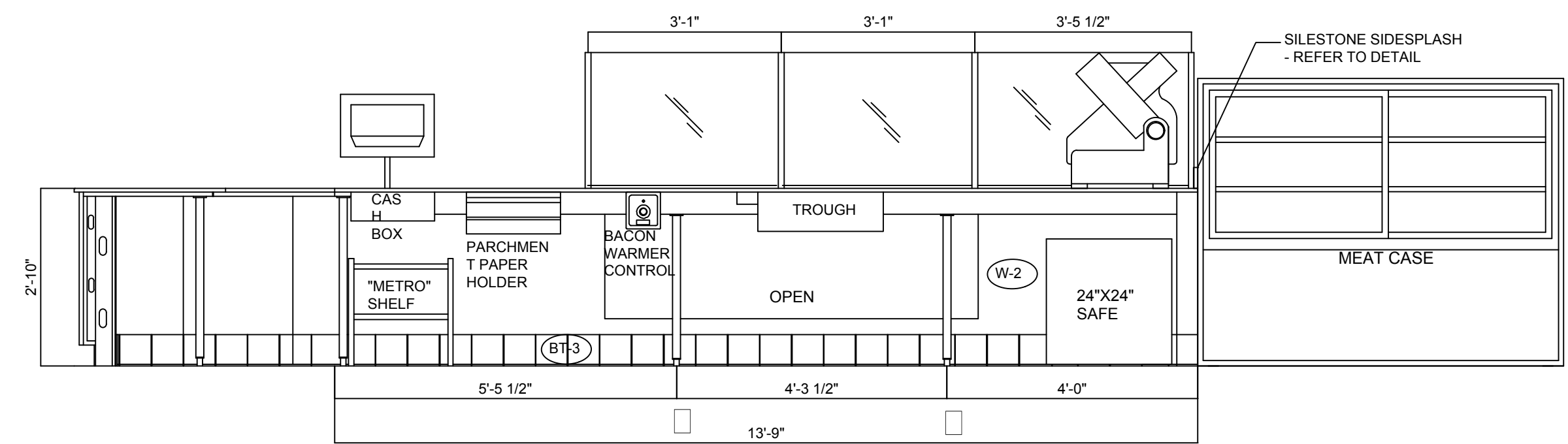
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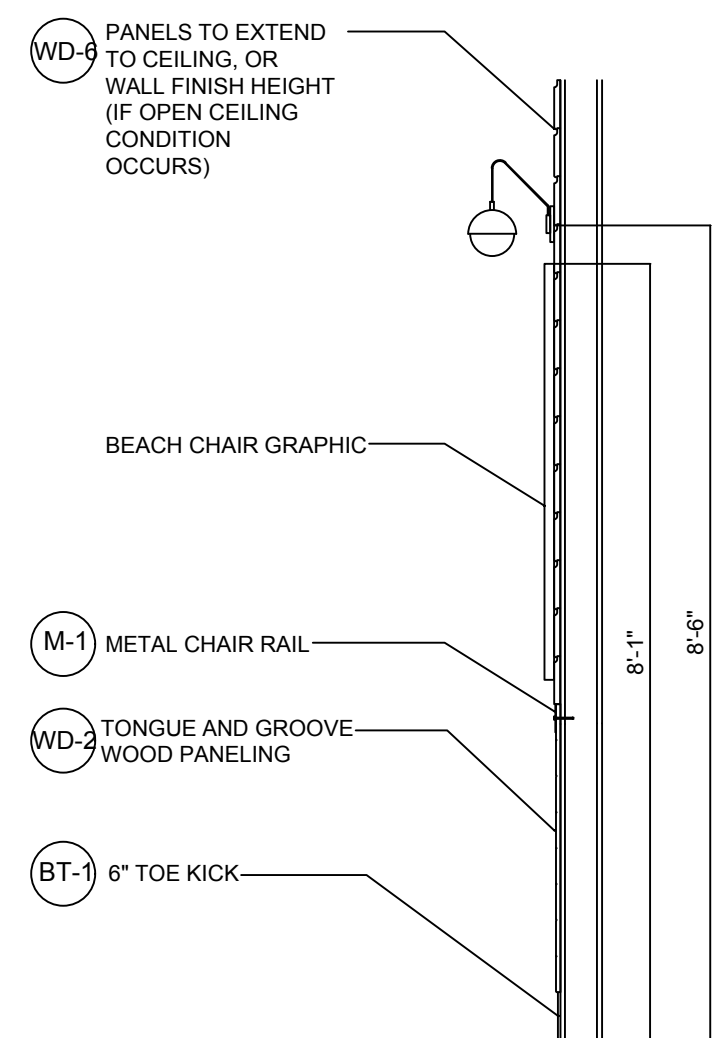
2 ELEVATION-2 SERVICE COUNTER-CUSTOMER SIDE
Scale: 1/2" = 1'-0"



3 ELEVATION-3 HOT SUB & GALLEY KITCHEN
Scale: 1/2" = 1'-0"

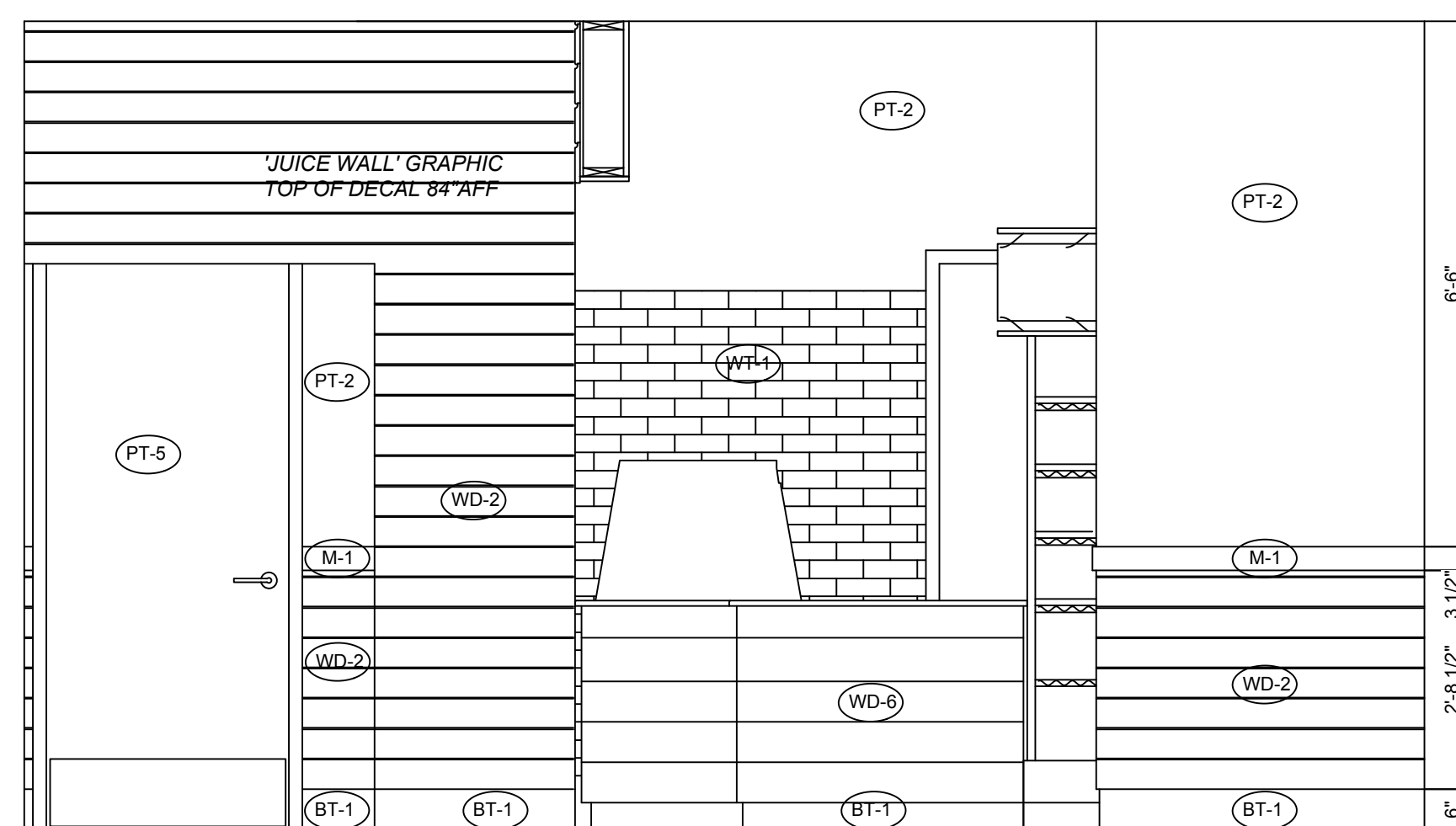


1 ELEVATION-1 SERVICE COUNTER EMPLOYEE SIDE
Scale: 1/2" = 1'-0"

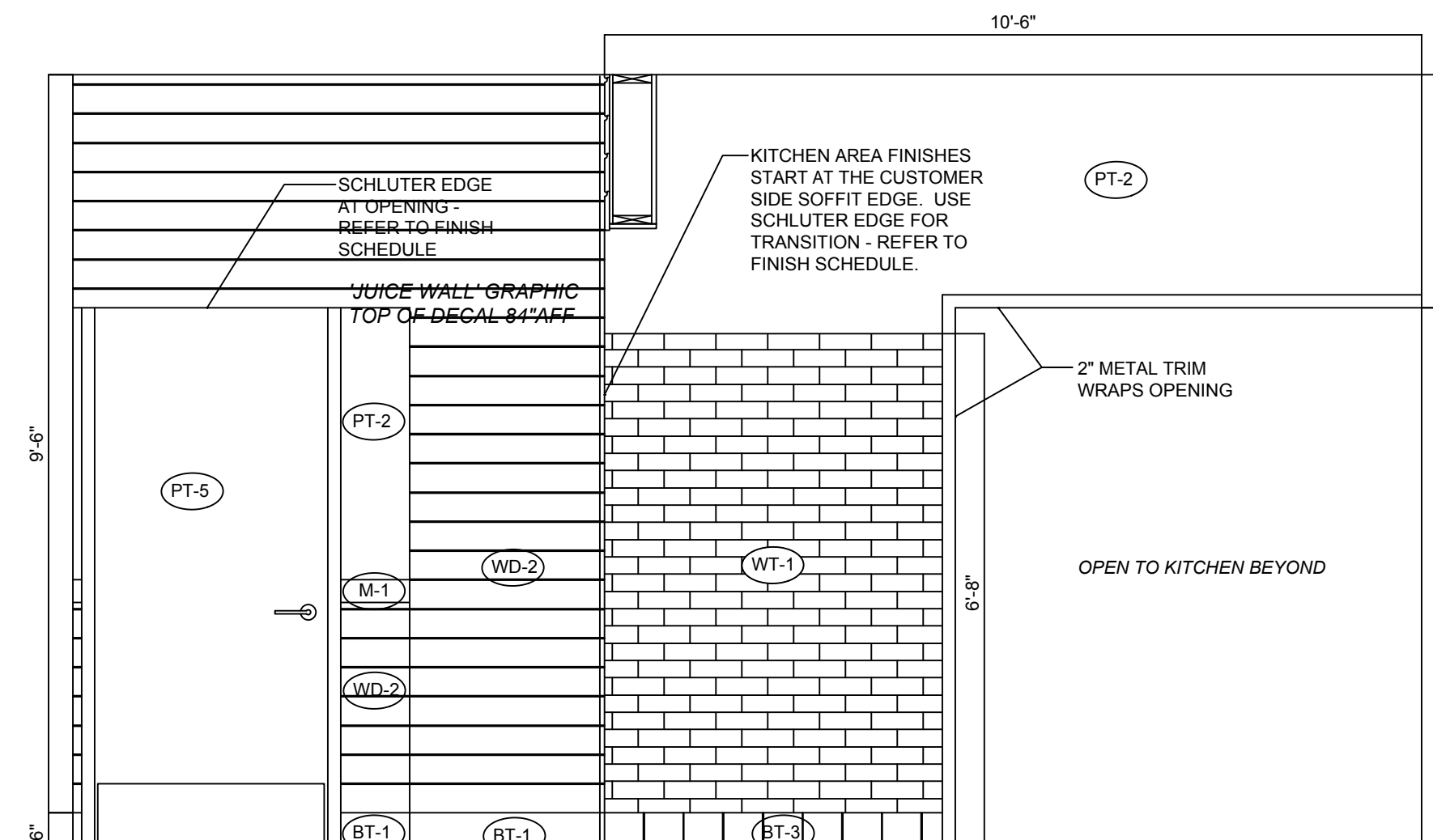


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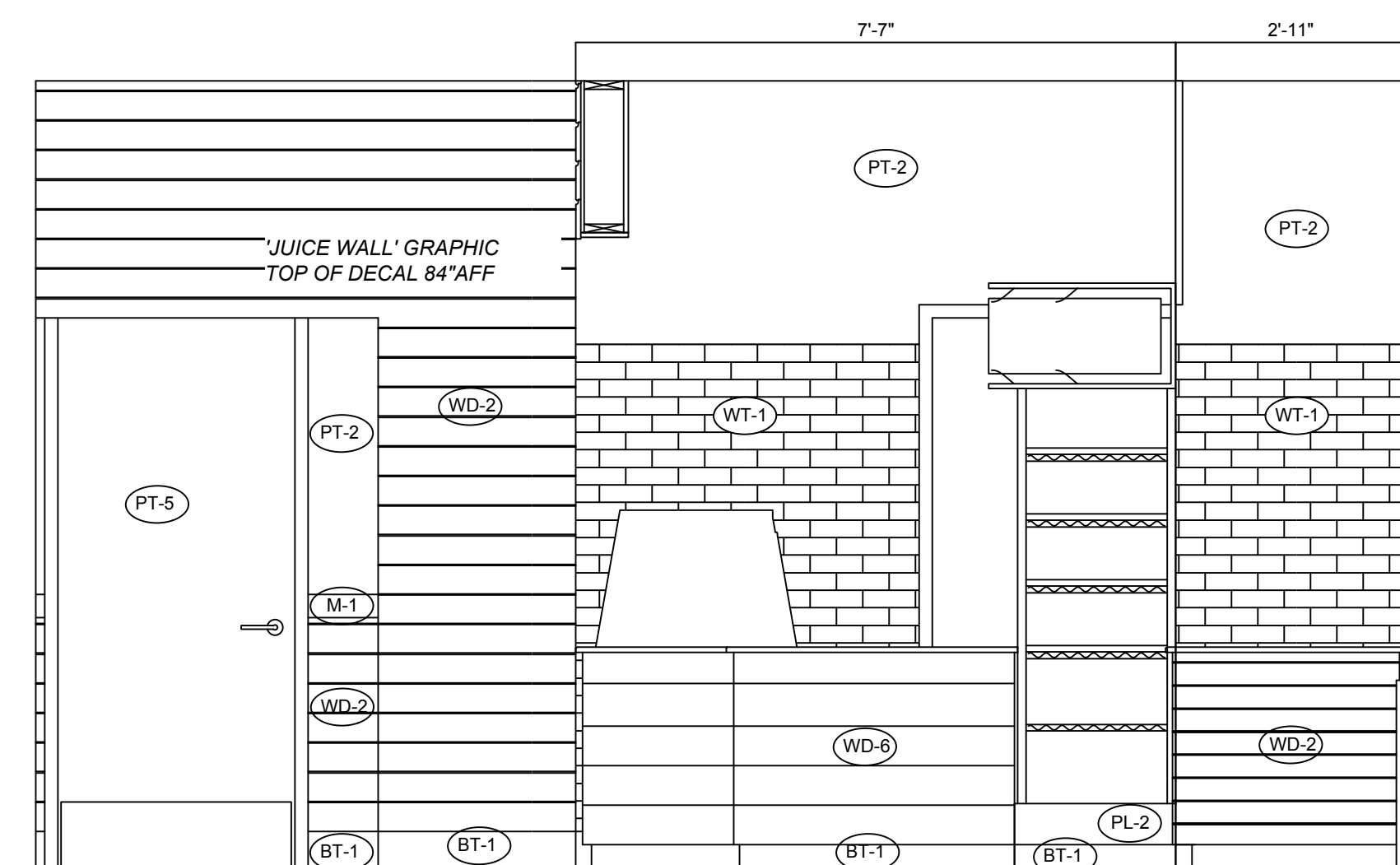
5 SECTION @ BEACH CHAIR GRAPHICS
Scale: 1/2" = 1'-0"



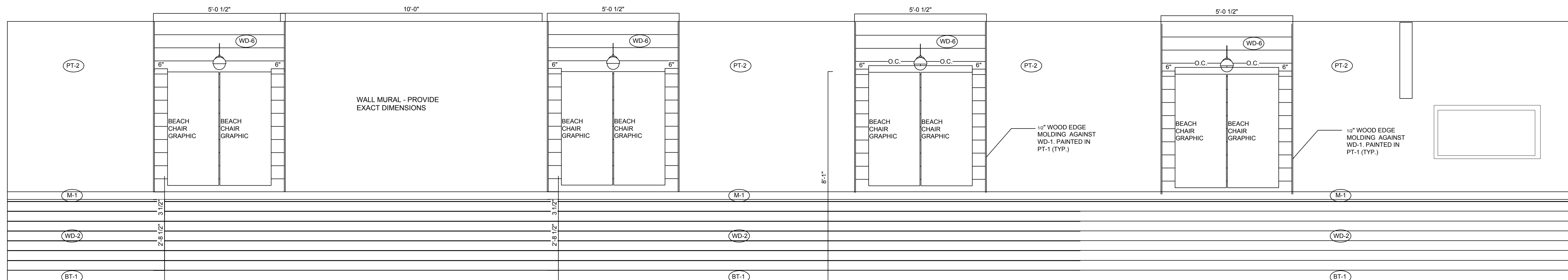
3 ELEVATION-3 DINING ROOM
Scale: 1/2" = 1'-0"



1 ELEVATION-1 DINING ROOM
Scale: 1/2" = 1'-0"



2 ELEVATION-2 DINING ROOM
Scale: 1/2" = 1'-0"



4 ELEVATION-4 DINING ROOM
Scale: 1/2" = 1'-0"

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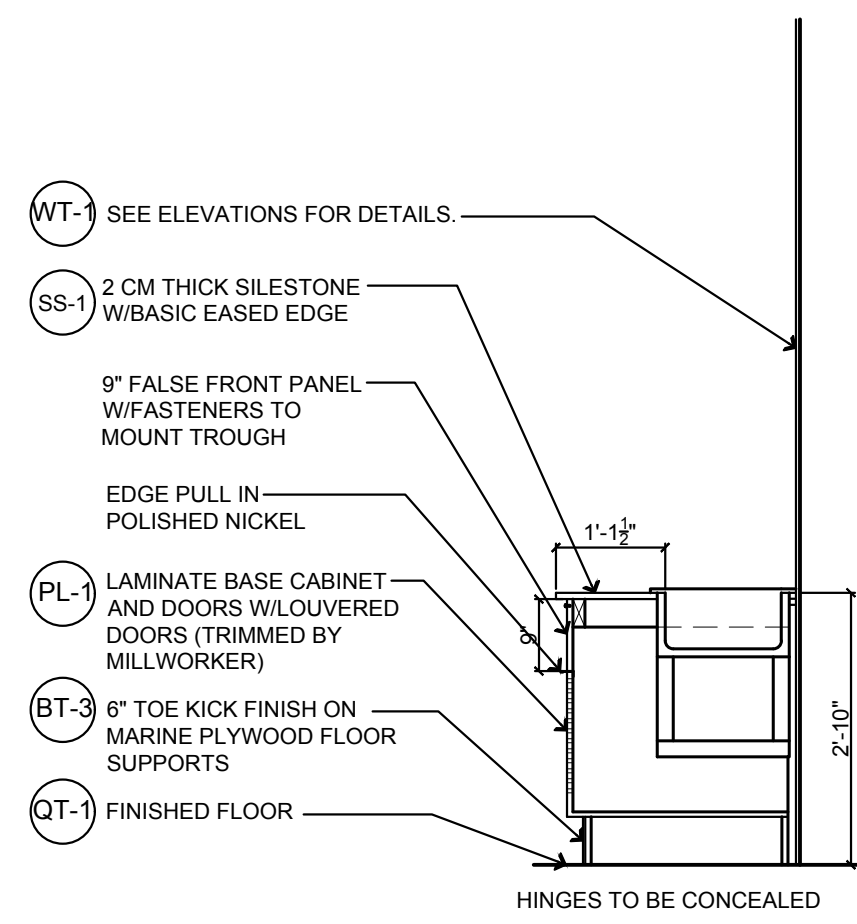
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REVISIONS	NO	DESCRIPTION	DATE

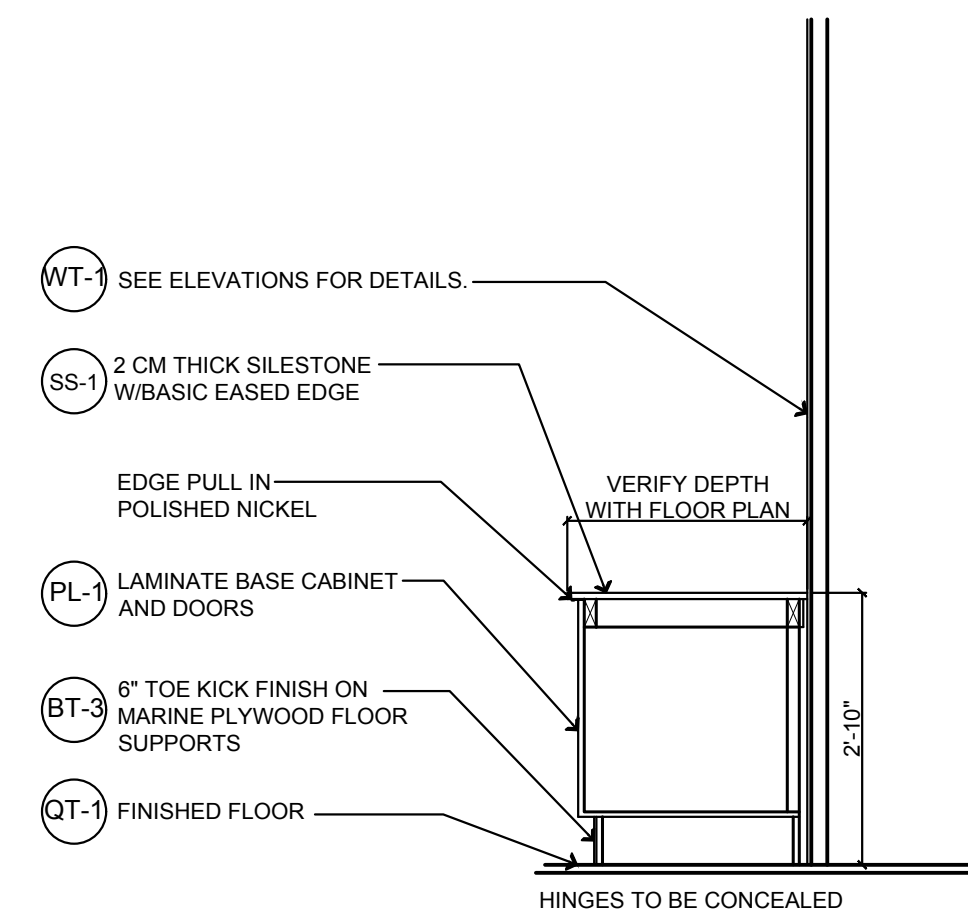
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INTERIOR ELEVATIONS

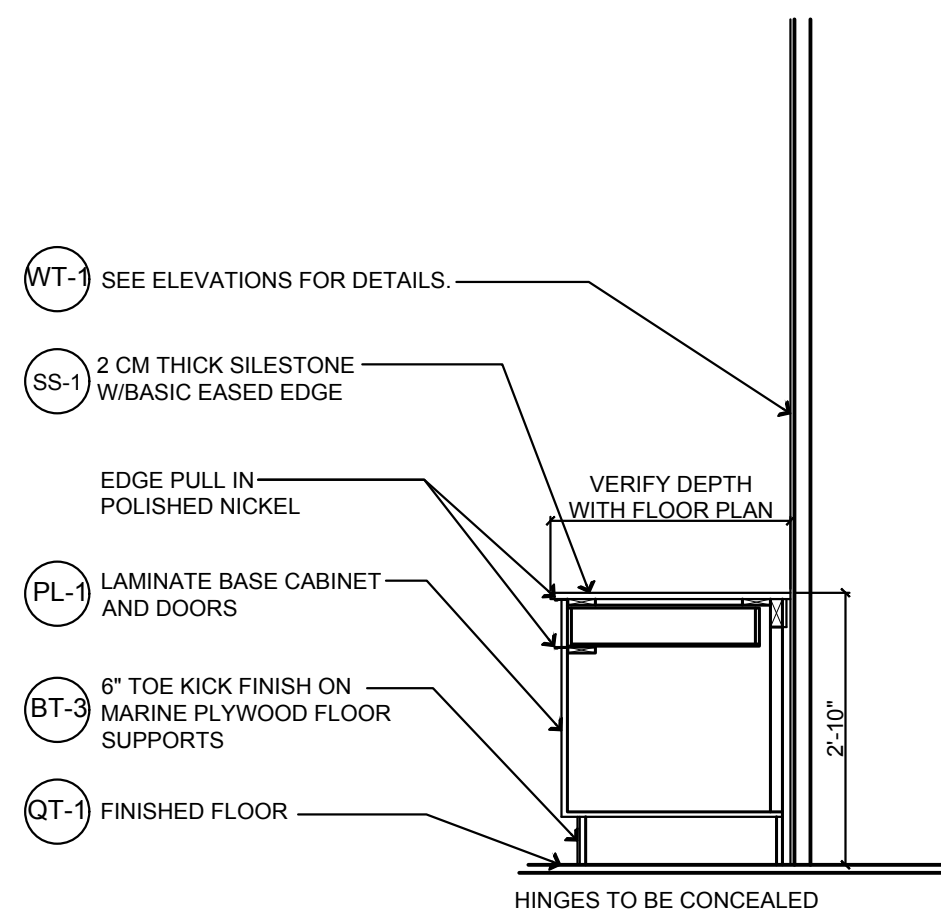
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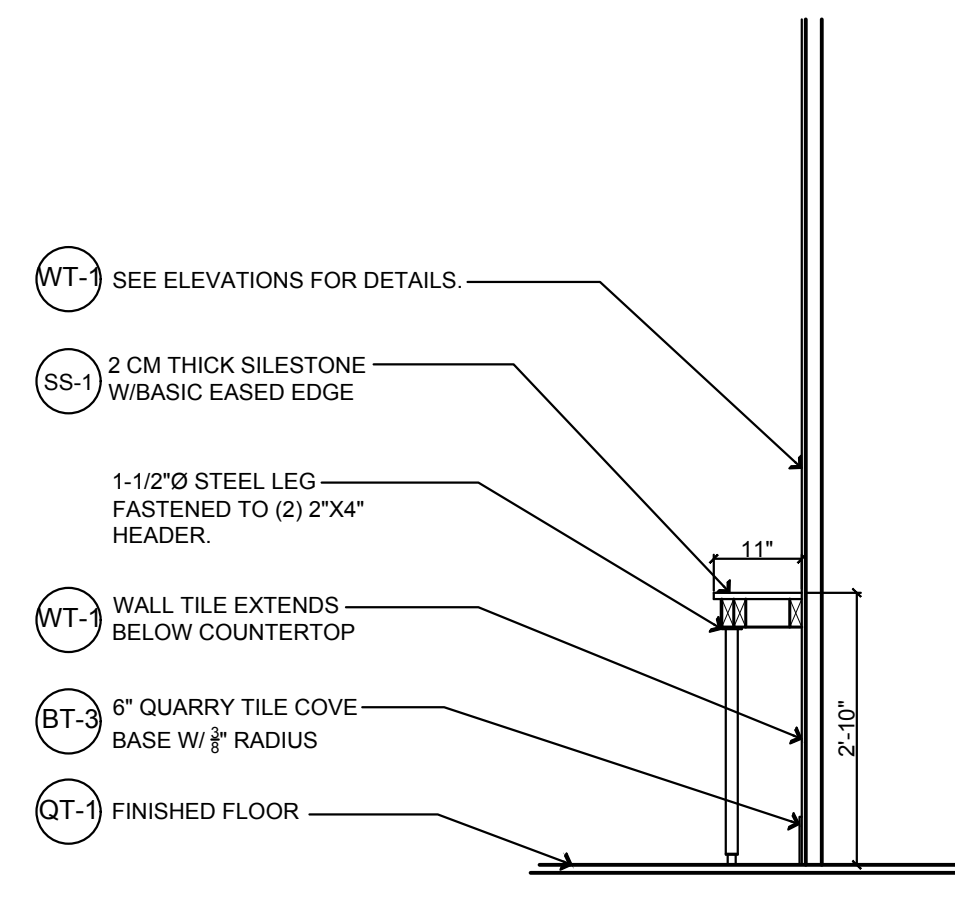
SECTION @ 2' DROP IN UNIT (GALLEY SETUP)



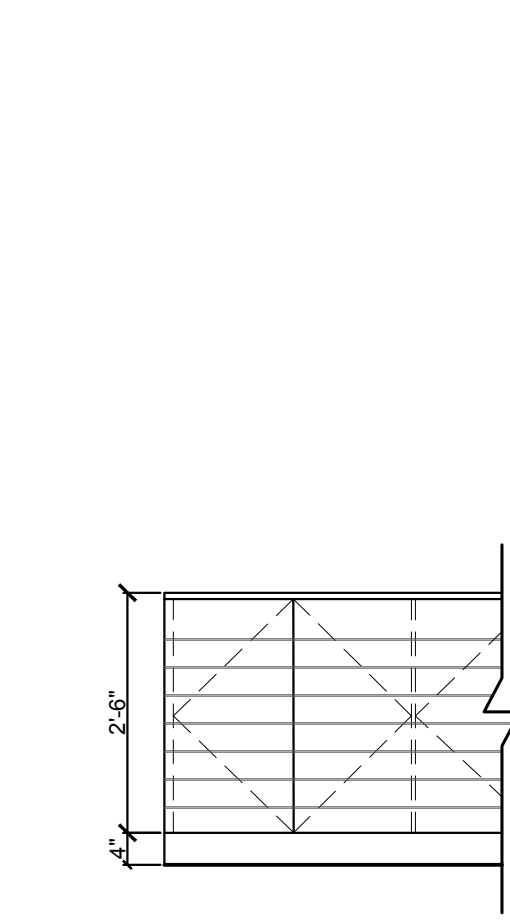
SECTION @ DEMISING WALL



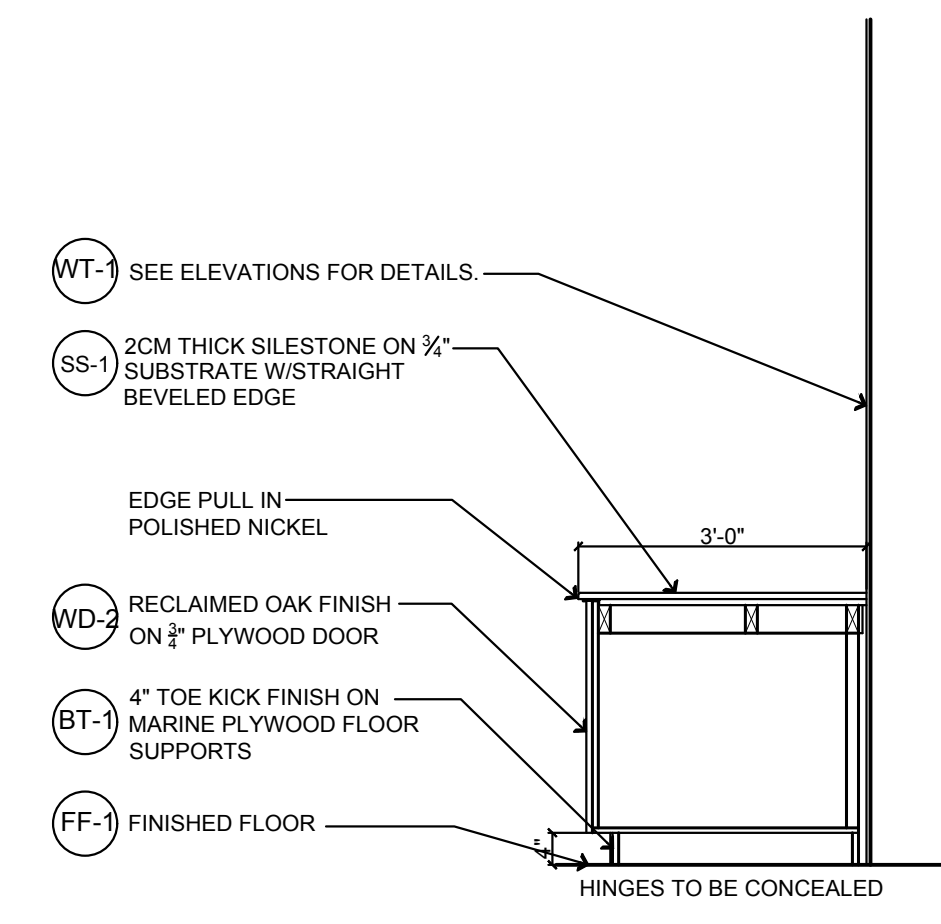
SECTION AT DRAWER AND DOOR BASE @ DEMISING WALL



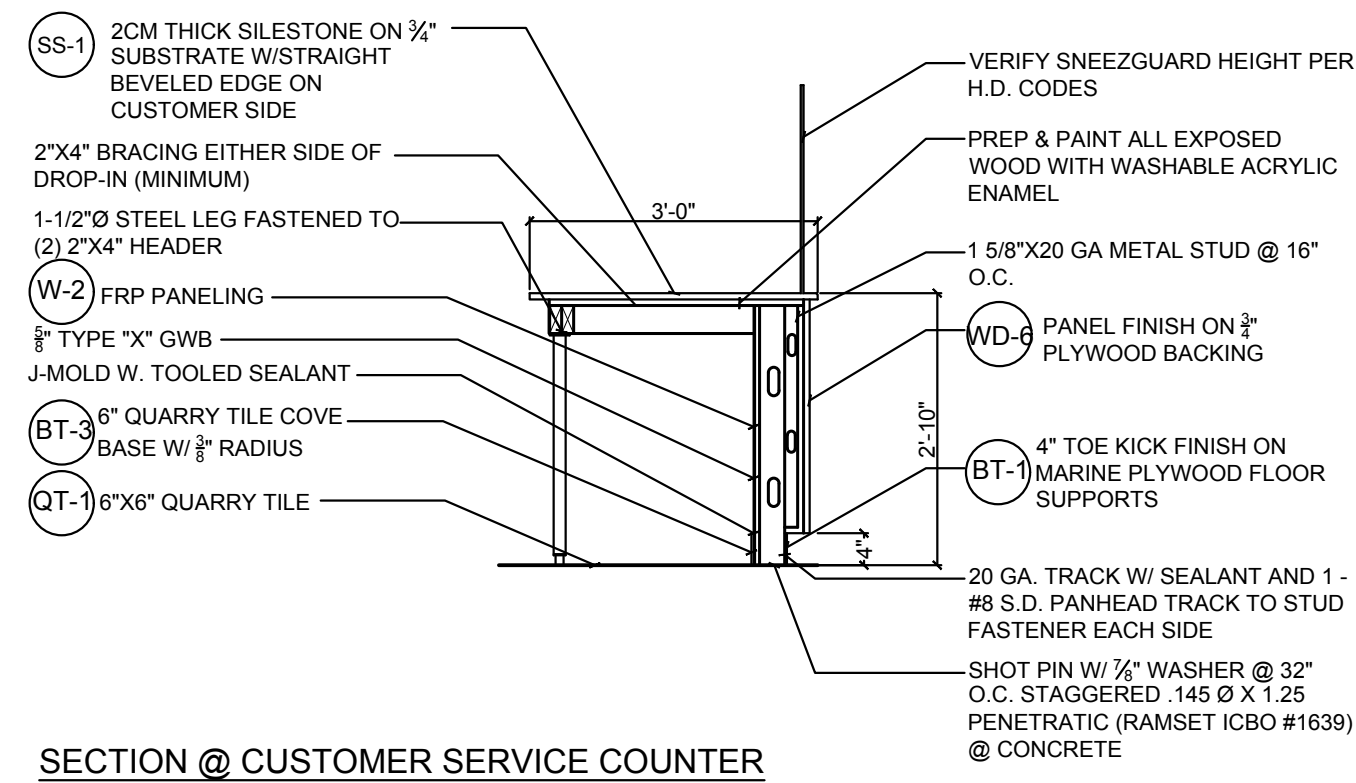
SECTION AT MEAT/CHEESE CASE @ DEMISING WALL



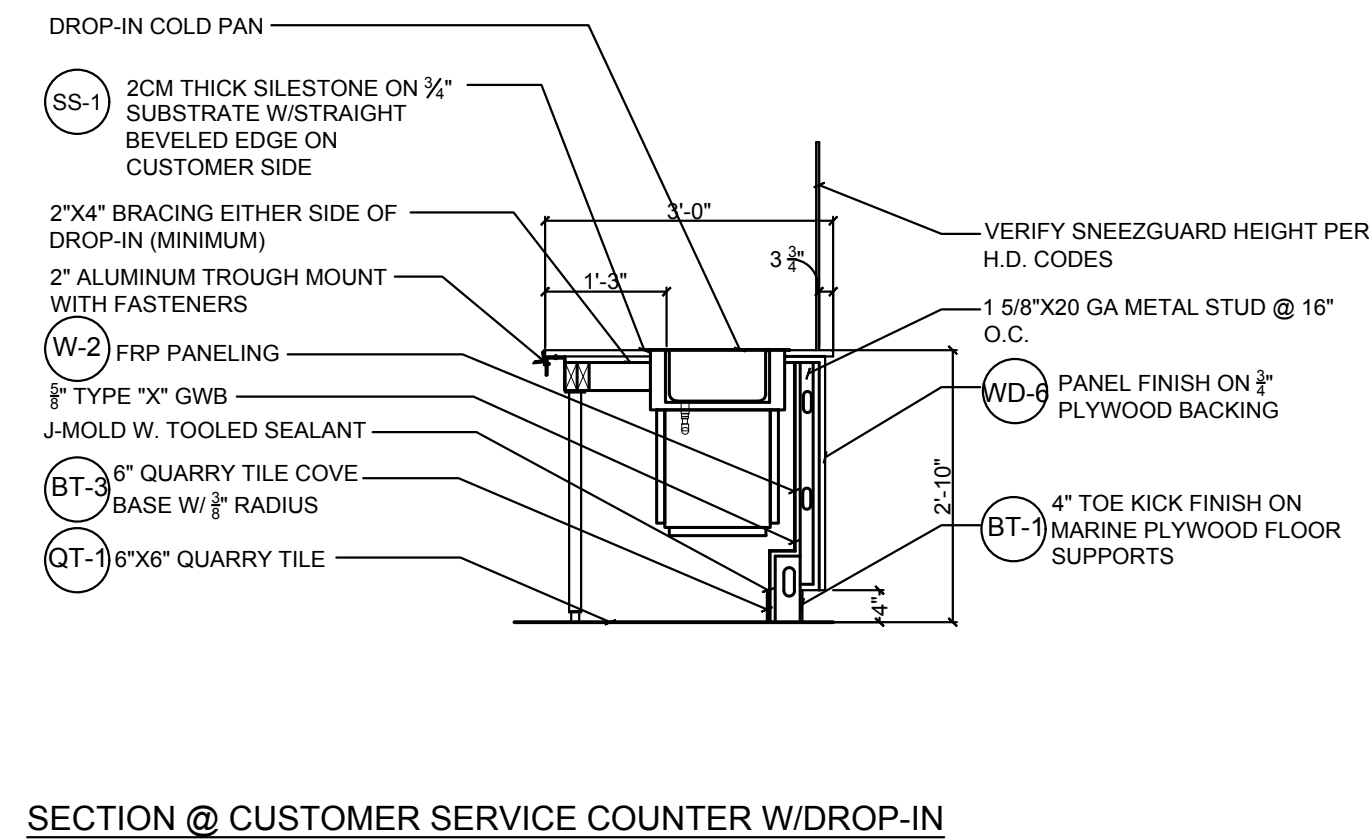
BEVERAGE COUNTER MILLWORK



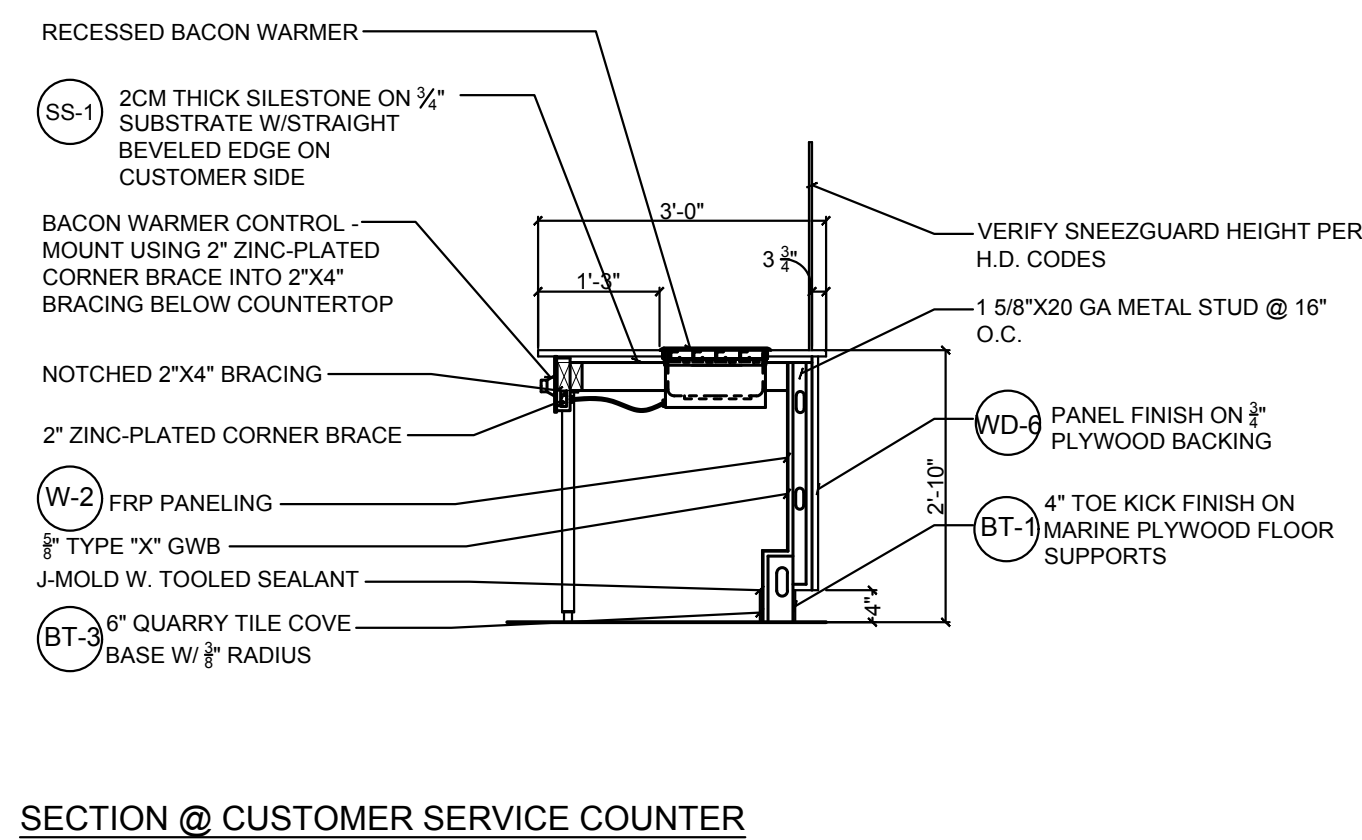
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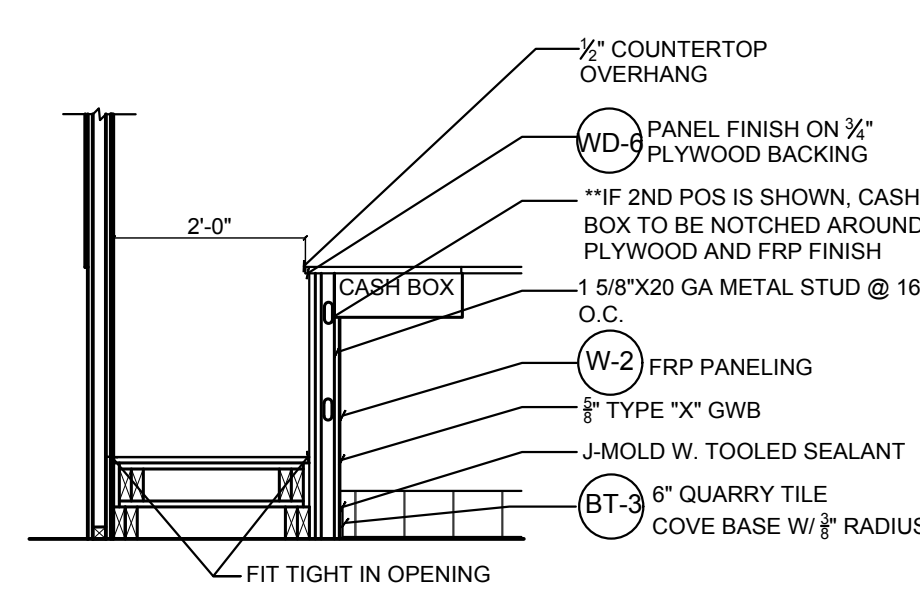
SECTION @ CUSTOMER SERVICE COUNTER



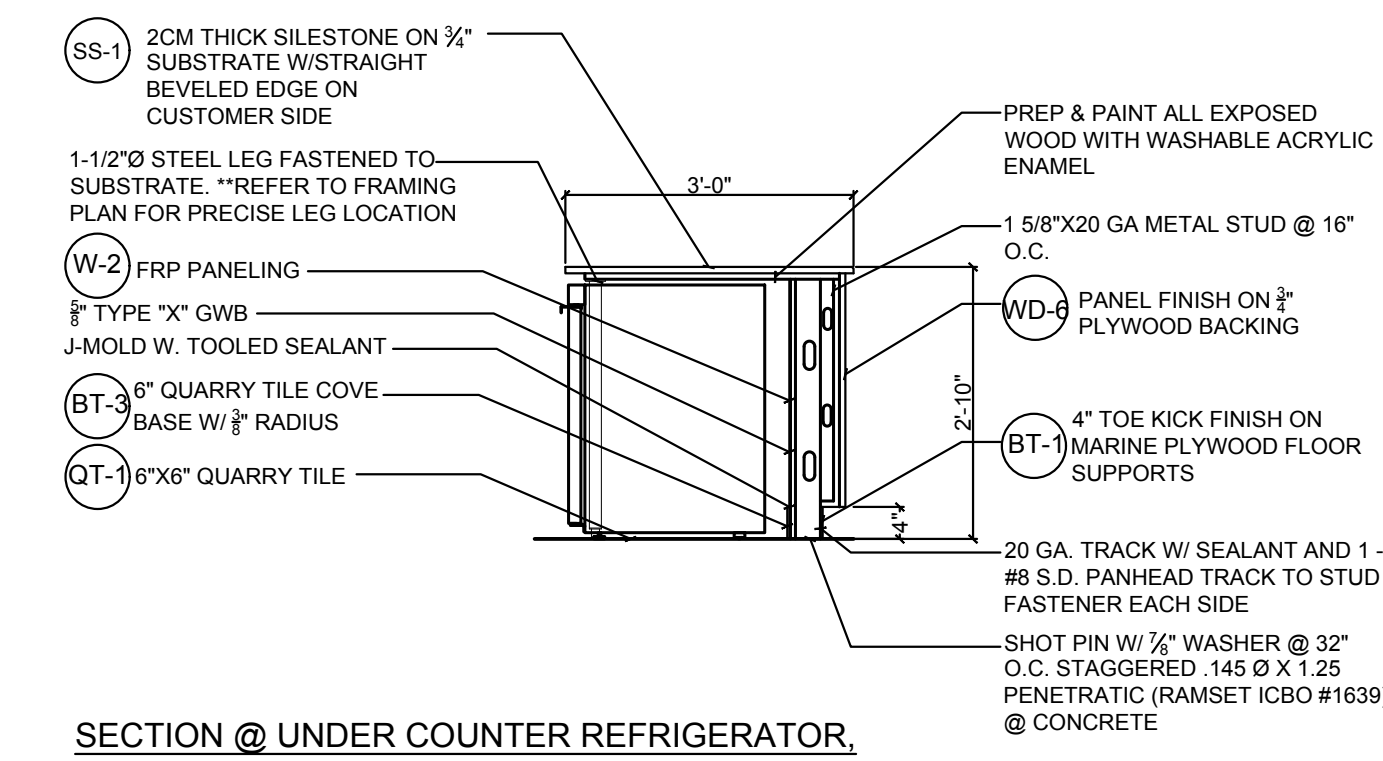
SECTION @ CUSTOMER SERVICE COUNTER W/DROP-IN



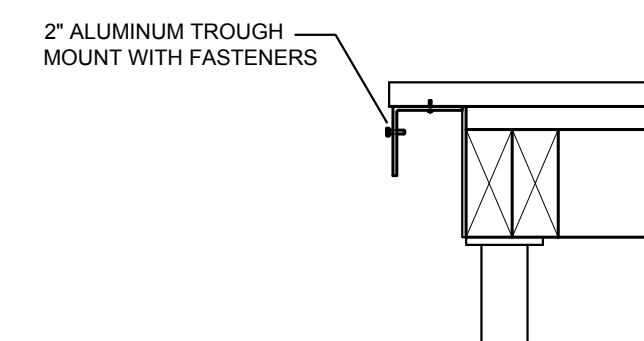
SECTION @ CUSTOMER SERVICE COUNTER W/RECESSED BACON WARMER



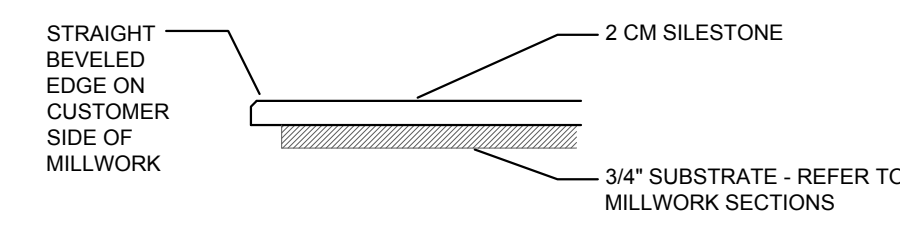
SECTION @ 2ND POS SERVICE COUNTER



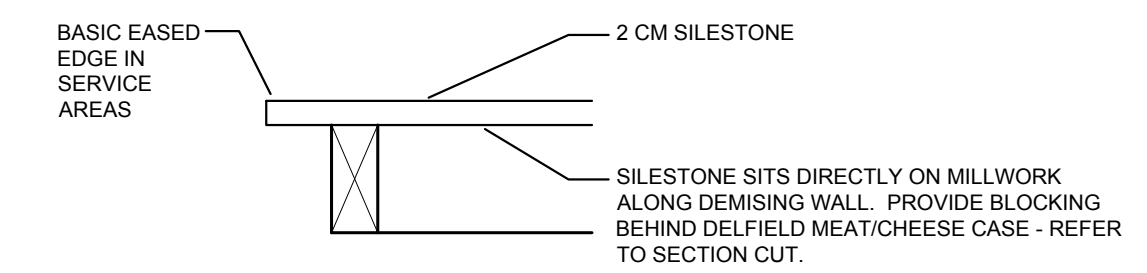
SECTION @ UNDER COUNTER REFRIGERATOR, AT FRONT LINE



TROUGH ATTACHMENT DETAIL SCALE: N.T.S.



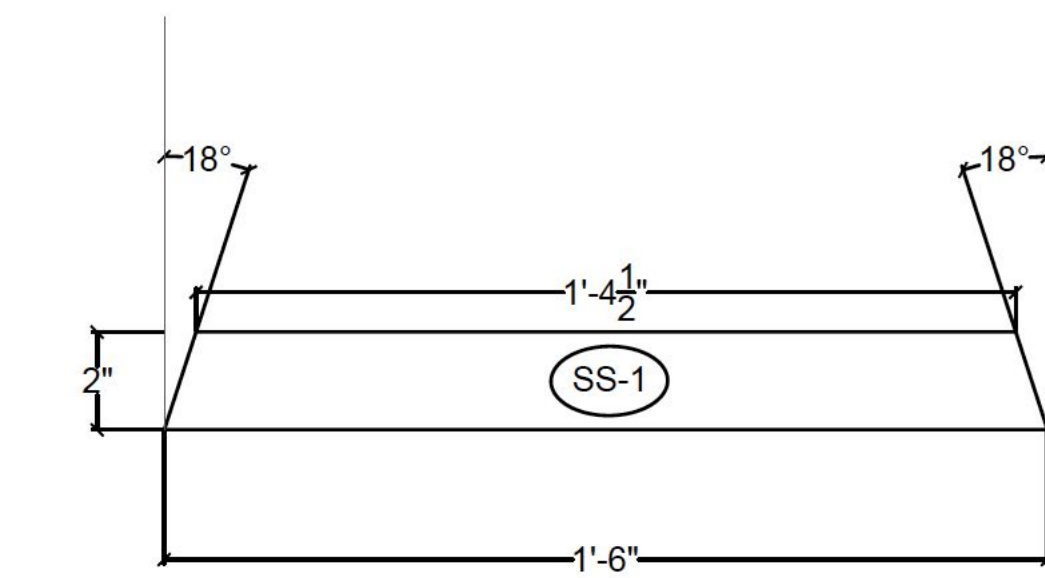
SILESTONE COUNTERTOP DETAIL AT FRONT LINE AND BEVERAGE COUNTER SCALE: N.T.S.



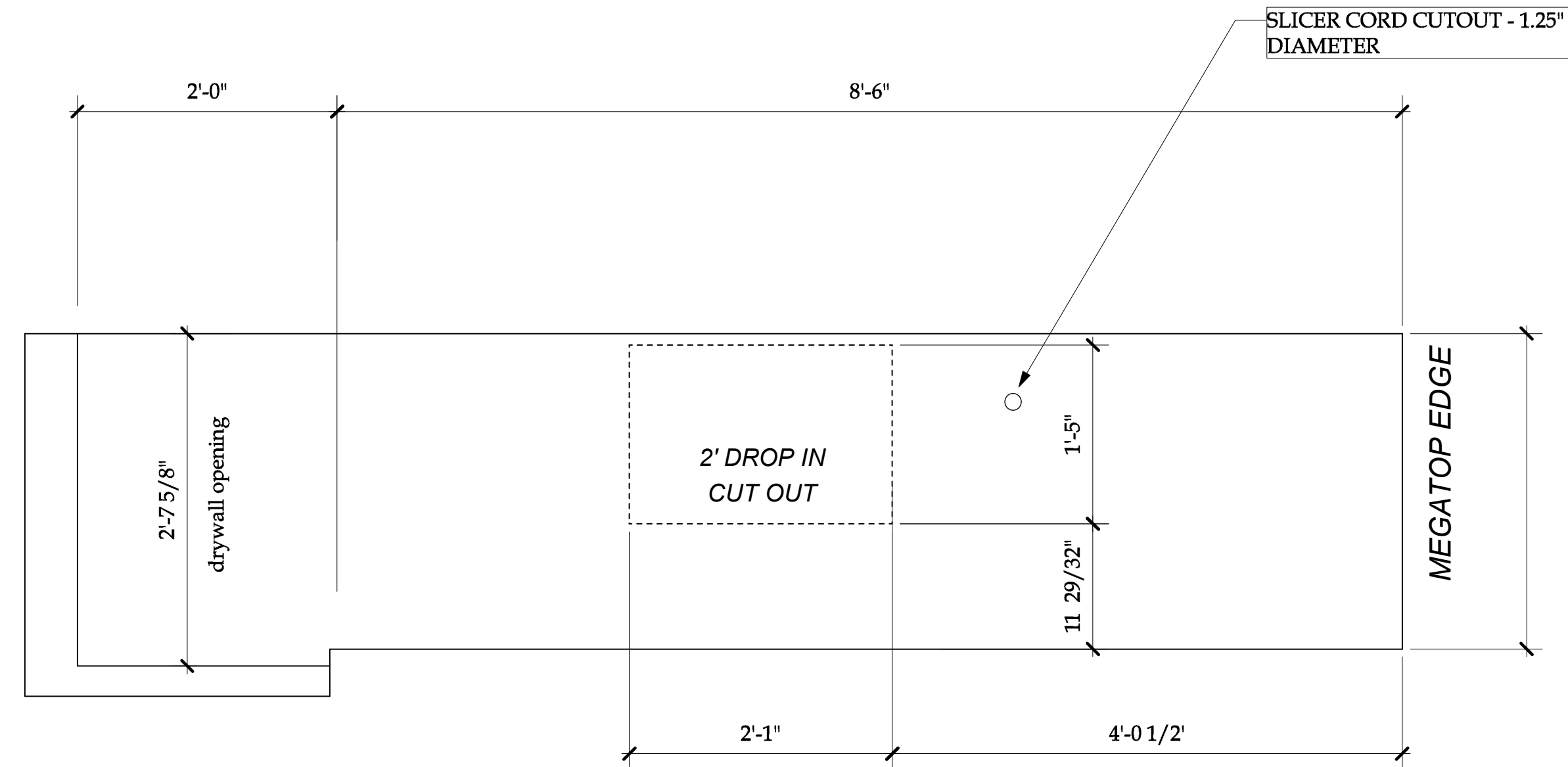
SILESTONE COUNTERTOP DETAIL AT KITCHEN AREA COUNTERS SCALE: N.T.S.

NO	REVISIONS DESCRIPTION	DATE

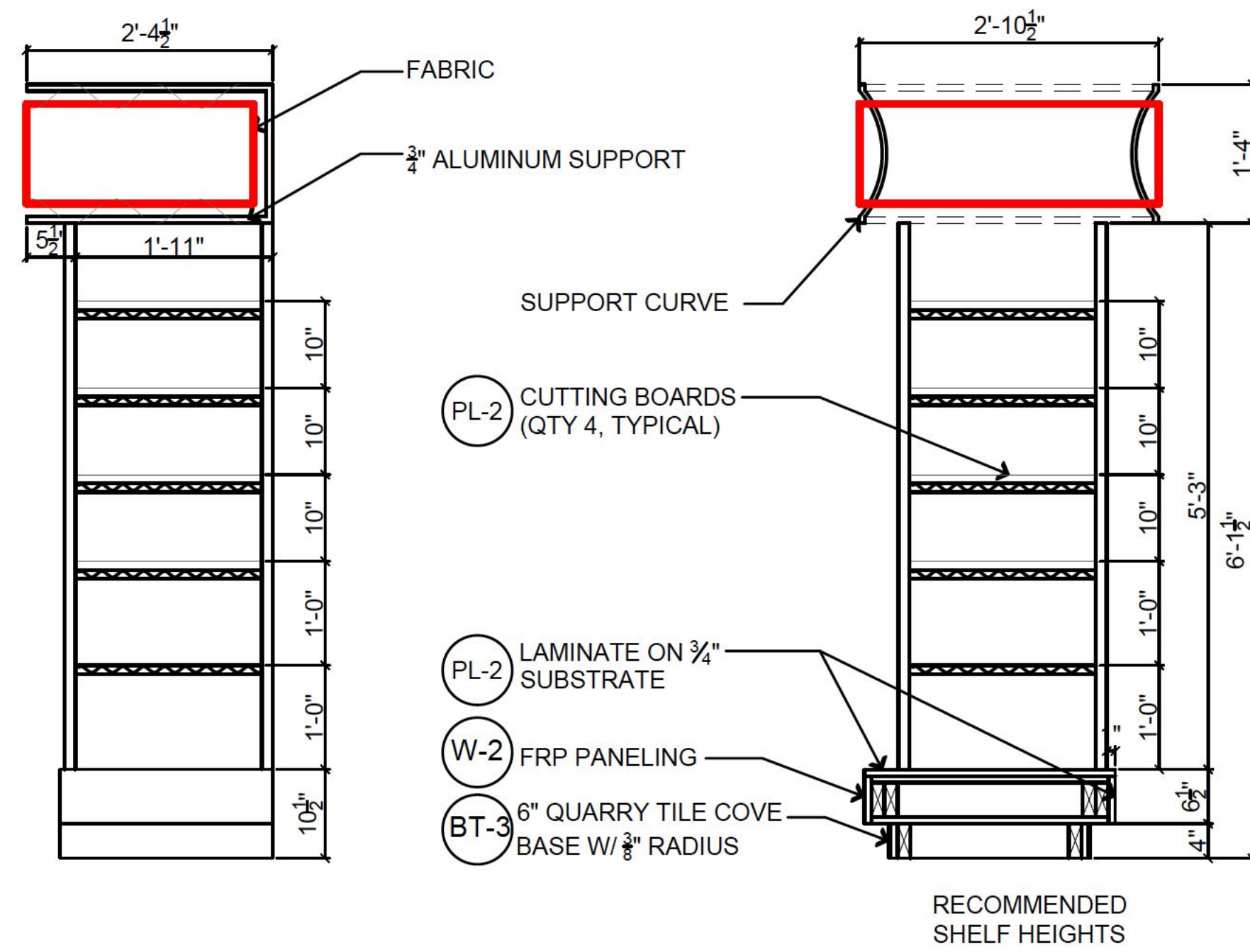
DRAWN BY: K1 CHECKED BY: K1



4 SILESTONE SIDE SPLASH @ MEAT CASE
Scale: NTS



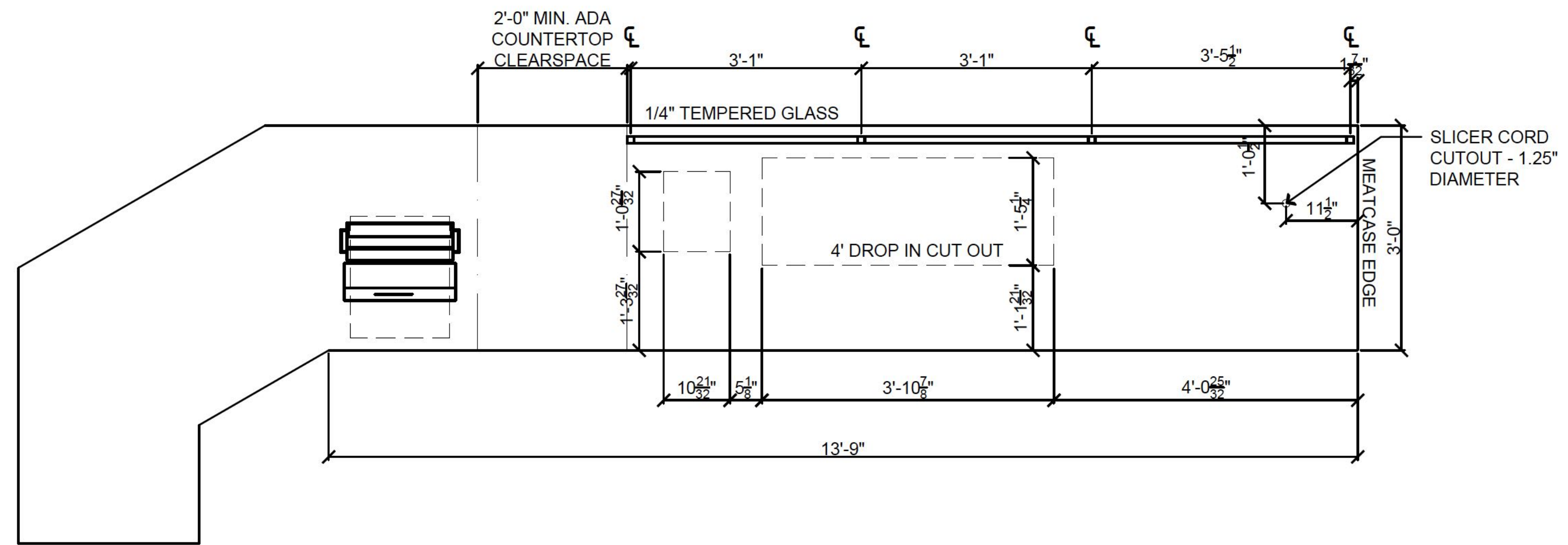
2 GALLEY KITCHEN SECOND LINE W/DELFIELD MEGATOP UNIT
Scale: NTS



PICK UP TOWER ELEVATION
SCALE: 1/2"=1'-0"

PICK UP TOWER SECTION
SCALE: 1/2"=1'-0"

3 PICK UP TOWER DETAILS
Scale: NTS

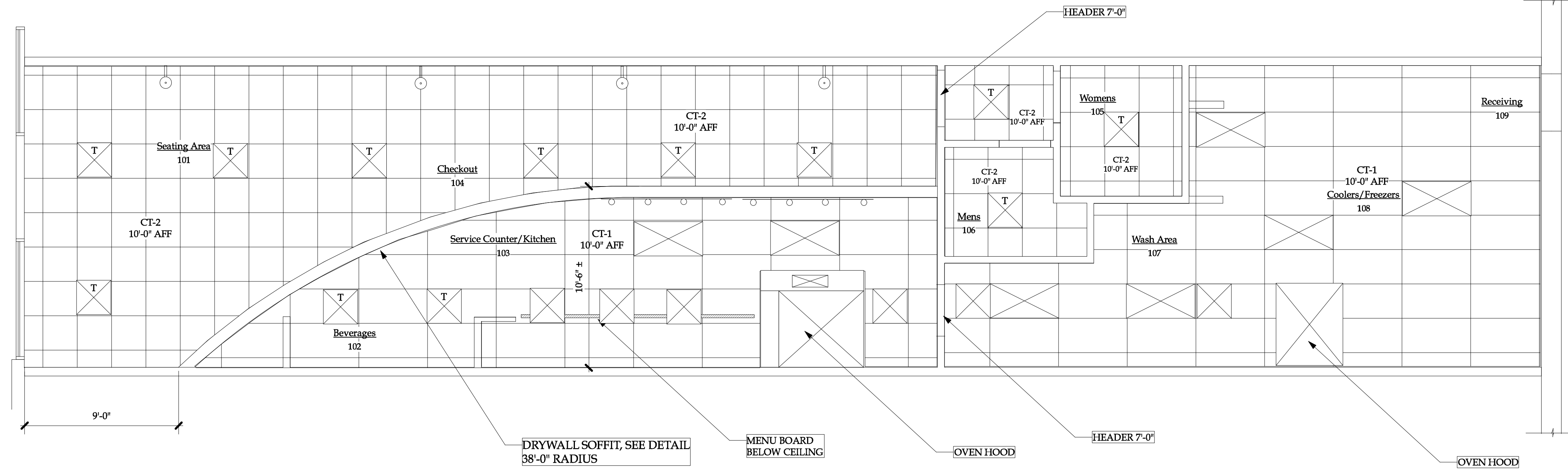


13'-9" COUNTER CONFIGURATION

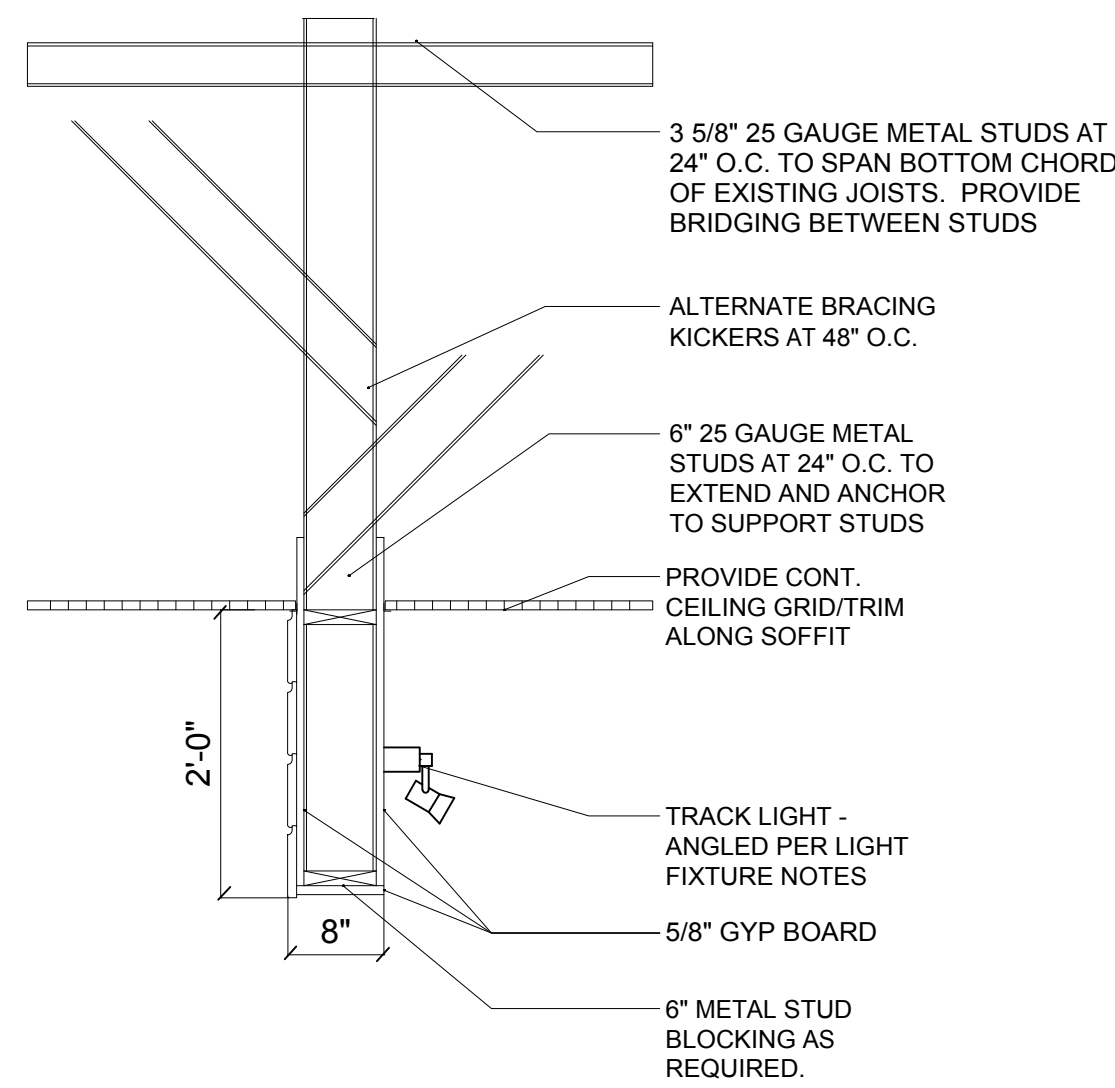
1 CUSTOMER FACING FRONT COUNTER
Scale: NTS

NO	REVISIONS DESCRIPTION	DATE

DRAWN BY: K1 CHECKED BY: K1

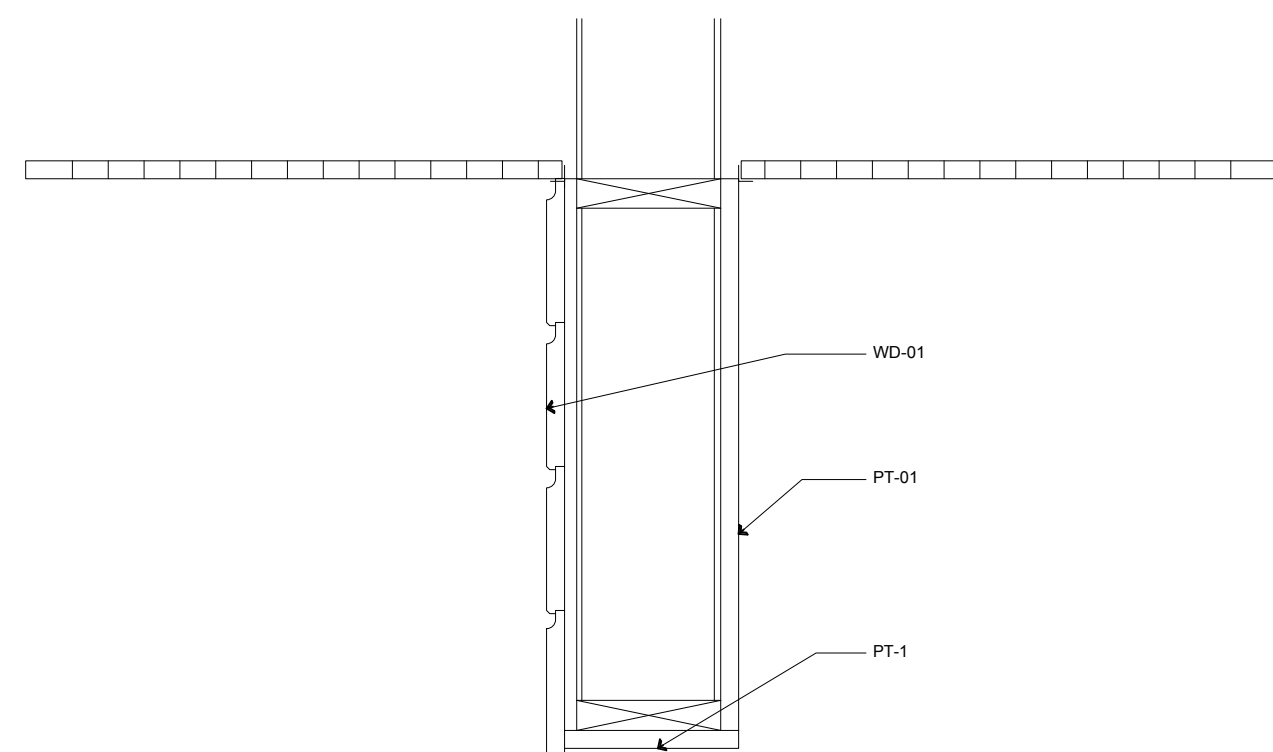


1 CEILING PLAN
Scale: 1/4" = 1'-0"



2 SOFFIT DETAIL DINING
Scale: 3/4" = 1'-0"

SOFFIT DESIGN:
THE CUSTOMER SIDE FACE OF THE CURVED SOFFIT, WILL ALIGN WITH THE CUSTOMER SIDE FACE OF THE FRONT COUNTER. THE CURVE WILL BEGIN AT THE END OF THE SNEEZE GUARD, AND WILL CONTINUE TO THE FRONT OF THE STORE - EITHER ENDING WHEN THE CURVE HITS THE DEMISING WALL, OR THE FRONT OF THE BUILDING. SOFFIT RADIUS IS 38'-0".



3 ENLARGED SOFFIT DETAIL DINING
Scale: 1 1/2" = 1'-0"

ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	COMMENTS
	2'X4' LED LAY-IN W/ ACRYLIC LENSES	KITCHEN
	2'X2' LED LAY-IN W/ ACRYLIC LENSES	KITCHEN
	2'X2' LED LAY-IN W/ TROFFER LENSES	CUSTOMER AREA/RESTROOMS
	2'X4' LED LAY-IN W/ TROFFER LENSES	CUSTOMER AREA/RESTROOMS
	DINING ROOM 1X4	FOR USE IN OPEN CEILING CONDITIONS. MOUNT AT 12'-0" AFF
	TRACK LIGHTING	MOUNT AT 9'-0" AFF. TRACK LIGHTING IN FRONT OF MENU FACES HEADS TOWARDS MENU BOARD. TRACK LIGHTING ABOVE MEAT CASE AND SLICER FACES HEADS DOWN TOWARD EQUIPMENT BELOW.
	WALL SCONCE	MOUNT AT 8'-6" AFF
	ACCENT PENDANT	OVER COMMUNITY TABLE SEATING. REFER TO SURFBOARD DETAIL.

CEILINGS					
TAG	SOURCE	TYPE	COLOR	SIZE	COMMENTS
CT-1	ARMSTRONG	ACOUSTICAL CEILING TILE VINYL FACED	WHITE VINYL	2'X4'	FOOD PREP AREAS HD APPROVED VINYL FACED
CT-2	ARMSTRONG	ACOUSTICAL CEILING TILE FISSURED 2'X2 WITH REGULAR EDGE	WHITE	2'X2'	CUSTOMER AREA, RESTROOM VESTIBULE, AND RESTROOMS
S-1	GYPSUM SOFFIT				SEE DETAIL
OC-1	OPEN CEILING	EXISTING	PT-3		DINING ROOM ONLY. FINISHES EXTENDED TO 12" AFF. EVERYTHING ABOVE TO BE PAINTED PT-3.

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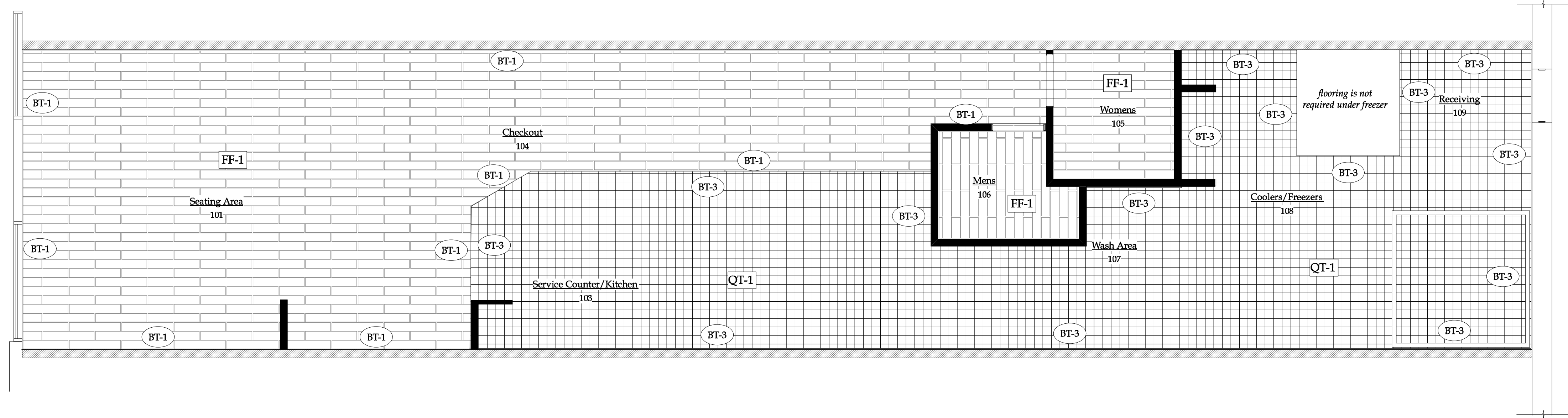
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NO	DESCRIPTION		

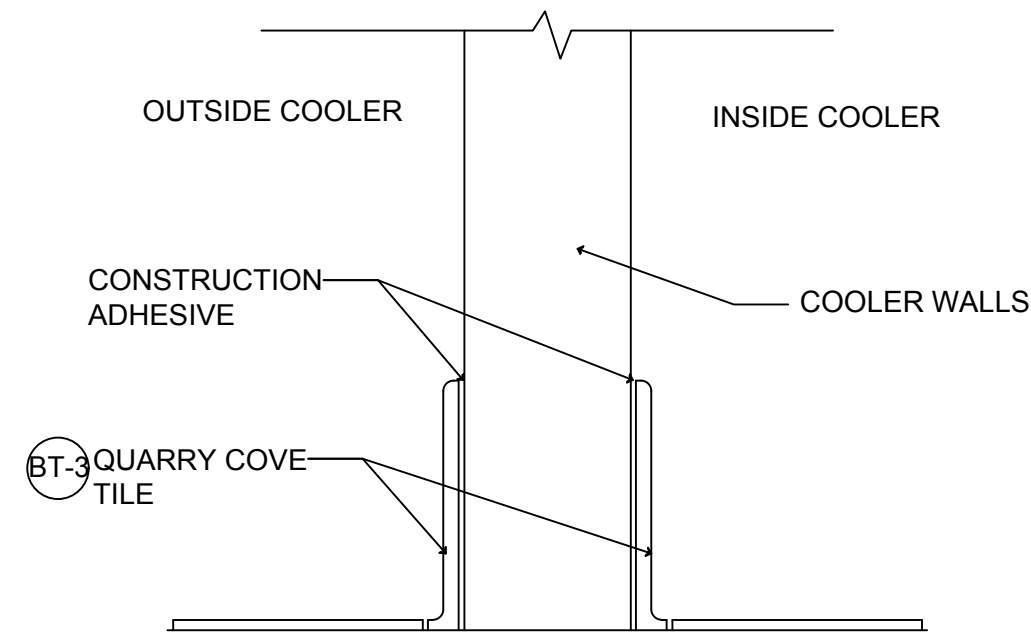
CEILING PLAN
JM-4.0

JOB NO. 19022

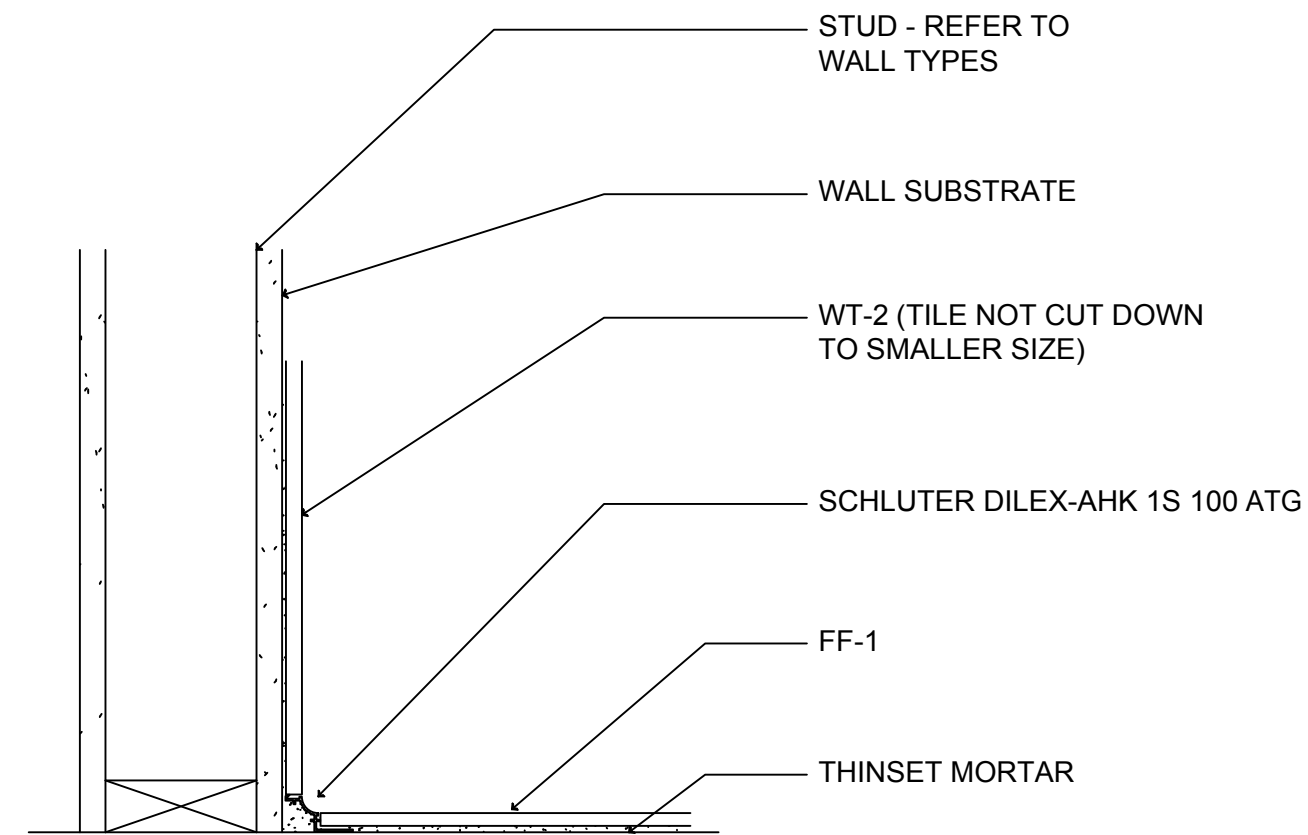
DATE: NOVEMBER 11, 2019 DOCUMENT STATUS: REVIEW SET PERMIT SET FINAL FOR CONSTRUCTION



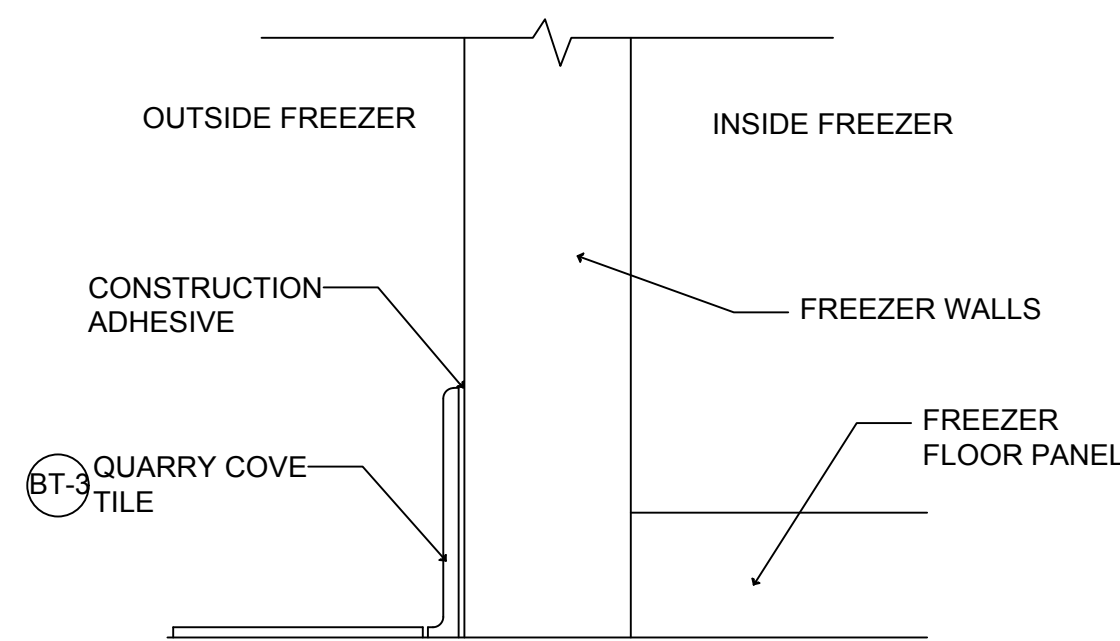
1 FLOOR FINISH PLAN
Scale: 1/4" = 1'-0"



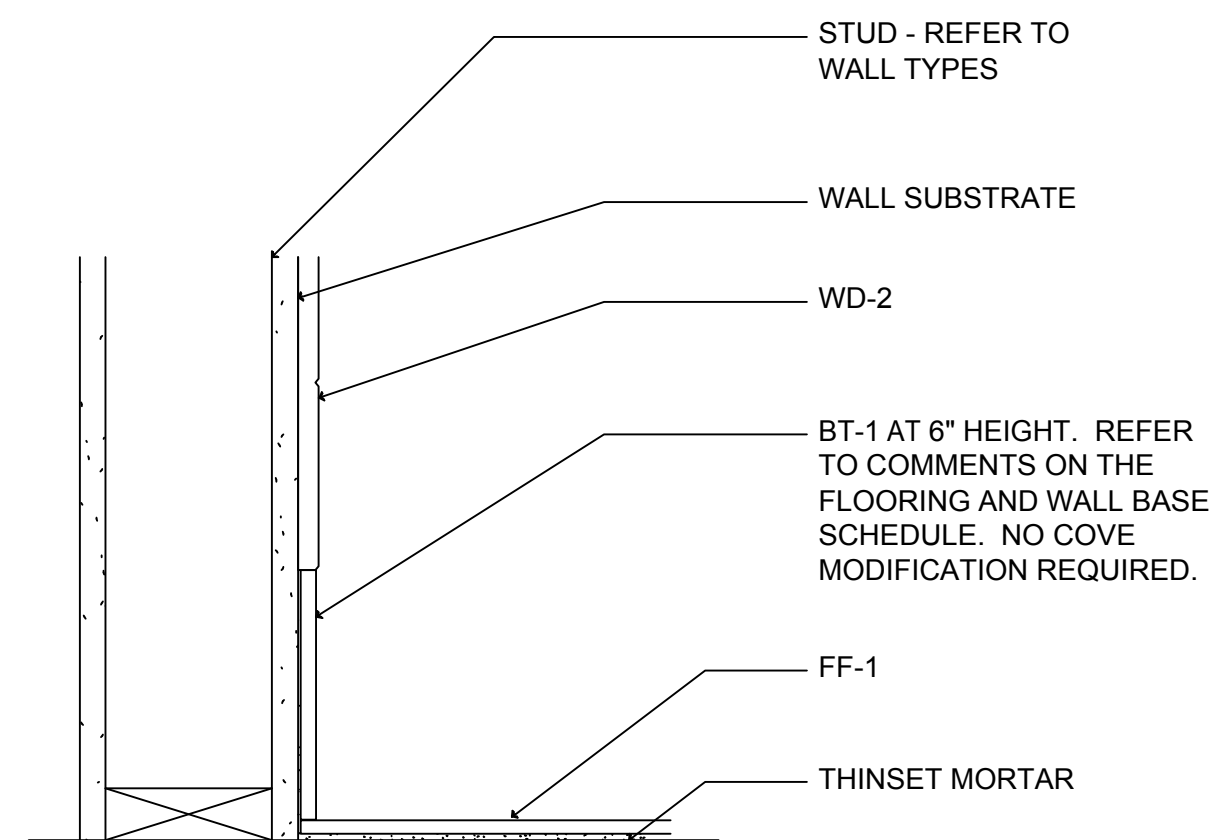
COVE QUARRY TILE @ WALK-IN COOLER
SCALE: N.T.S.



COVE PROFILE IN RESTROOM(S)
SCALE: N.T.S.



COVE QUARRY TILE @ WALK-IN FREEZER
SCALE: N.T.S.



WALL BASE PROFILE IN DINING ROOM
SCALE: N.T.S.

FLOORING AND WALL BASE					
TAG	SOURCE	TYPE	DESCRIPTION	COLOR	COMMENTS
FF-1	DAL TILE	PORCELAIN TILE	6X36 JM BROWN WOOD	PART #N813 JM6361PR	CUSTOMER AREAS - DINING, RESTROOM, AND HALLWAY(S) - 6"X36", 5#16" D. GROUT: MAPEI ULTRACOLOR PLUS FA - GRAY 09. GROUT JOINT RECOMMENDED AT #16".
FF-2					ALTERNATIVE TO FF-01
QT-1	DAL TILE	QUARRY TILE	6X6 PAVER 0Q74	BLACK	KITCHEN FLOORING. GROUT: MAPEI FLEXCOLOR CQ10 BLACK
BT-1	DAL TILE	PORCELAIN TILE	IRON CRAFT	SABLE BLACK IC15-UNPOLISHED	CUT FULL 12"X24" TILE (WT-2) DOWN TO 6"X12" FOR DINING ROOM WALL BASE, AND 4"X12" ON MILLWORK TOE KICK IN CUSTOMER AREAS. USE SCHLUTER DILEX-AHK (POLISHED NICKEL) WHEN COVE BASE APPLICATION IS REQUIRED. GROUT: MAPEI ULTRACOLOR PLUS FA - GRAY 09
BT-3	DAL TILE	6X6 QUARRY COVE TILE	6X6 QUARRY COVE TILE 0Q74	BLACK	WILL BE INSTALLED AROUND THE PERIMETER OF KITCHEN AND KITCHEN MILLWORK TOE KICK. GROUT: MAPEI FLEXCOLOR CQ10 BLACK

COUNTER FINISHES					
TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
SS-1	COUNTERTOP	CONSENTINO	SILESTONE - ETERNAL SERIES 2 CM	CHARCOAL SOAPSTONE - SUEDE	COUNTERTOP FINISH FOR ALL MILLWORK

WOOD					
TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
WD-1	WAINSCOT	GC	1"X SHIPLAP, D. FIR NO2 (STANDARD) GRADE, SMOOTH FINISH.	PAINTED PT-1	ON THE CUSTOMER SIDE OF THE FRONT LINE SOFFIT.
WD-2	WAINSCOT	TERRAMAI	MODERN FARMHOUSE OAK	CLEAR OIL	ACCENT WALL (PER PLAN). BOTTOM OF CHAIR RAIL IN DINING ROOM AND VESTIBULE. BEVERAGE COUNTER MILLWORK DOORS. BANQUETTE BACK AND SEAT. USE SCHULTER JOLLY (POLISHED NICKEL) FOR WALL EDGING, WHEN REQUIRED.
WD-3	BAR COUNTER	TERRAMAI	TEAK		GC TO ORDER FROM TERRAMAI. TABLETOP TO MATCH DINING ROOM TABLE TOPS
WD-4	FURNITURE BASE	GC		PAINTED PT-1	CONSTRUCTION OF DINING ROOM FURNITURE - COMMUNITY TABLE, BANQUETTE, AND BAR COUNTER
WD-5	HARDWOOD CAP	GC	3/4" HARDWOOD	PAINTED PT-6	FOR LOW WALL CAP AND WINDOW SILLS. WHEN CONDITION(S) OCCUR. ALLOW 1/2" OVERHANG.
WD-6	WAINSCOT PANEL	MARLITE		BY MANUFACTURER	BEHIND BEACH CHAIR GRAPHICS IN DINING ROOM - REFER TO ELEVATIONS. FACE OF COUNTER ON THE FRONT LINE.

WALL FINISHES					
TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
W-1	STAINLESS STEEL WAINSCOT	CAPTIVE AIRE	BRUSHED S/S 20 GAUGE FROM TOP OF Q.T. BASE		FULL HEIGHT TO HOOD, BEHIND GRILL AND BREAD OVEN AREA
W-2	FRP WALL PANELING	MARLITE		WHITE	BACK KITCHEN FOOD PREP AREA

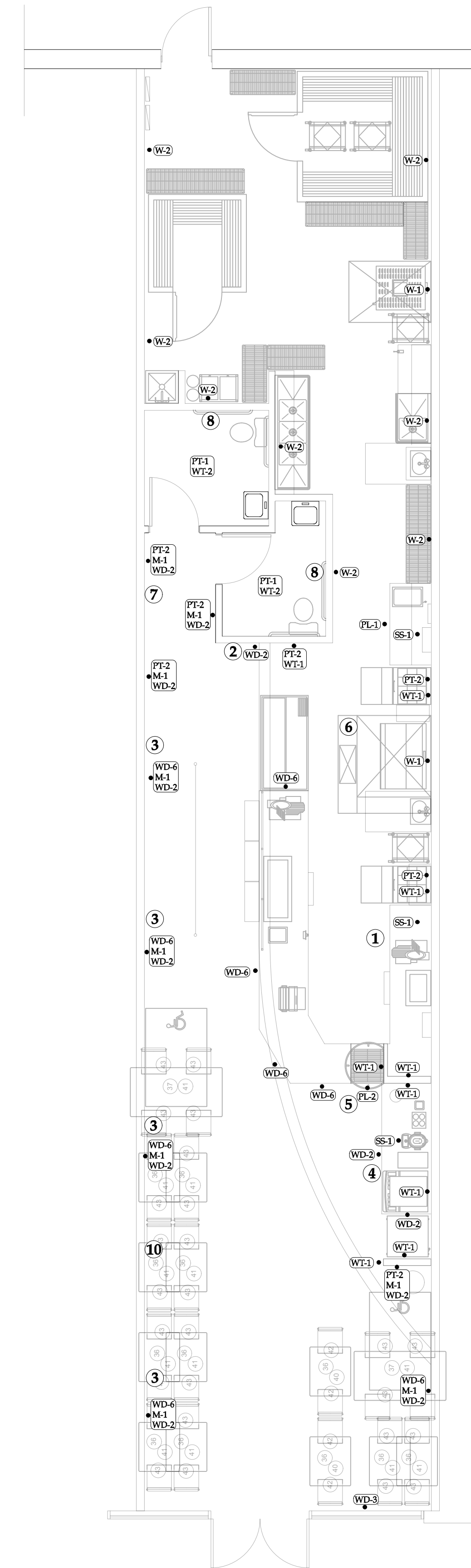
LAMINATES					
TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
PL-1	MILLWORK	WILSONART	STEEL MESH	FINE VELVET FINISH 4879-38	MILLWORK BEHIND THE SERVICE LINE AND BACK KITCHEN. USE PVC EDGE BANDING.
PL-2	CUTTING BOARDS	WILSONART	NATURAL RECON	FINE VELVET FINISH 7996-38	21"X 21" X 1" CUTTING BOARDS FOR PICK UP TOWER - QTY 4. PEDESTAL BASE FOR PICK UP TOWER.

PAINT					
TAG	SURFACE	MANUFACTURER	PRODUCT	COLOR	COMMENTS
PT-1	SHIP LAP, SOFFIT, AND RESTROOM CEILING	BENJAMIN MOORE	OC-130	CLOUD WHITE, SATIN	CUSTOMER AREA SHIPLAP (AND SHIPLAP TRIM), FRONT LINE SOFFIT, AND RESTROOM WALLS (ABOVE TILE)
PT-2	5/8" GWP PAINTED	BENJAMIN MOORE	1613	SILENT NIGHT, SATIN	DINING ROOM AND HALLWAY WALLS ABOVE CHAIR RAIL. ABOVE WALL TILE IN FRONT KITCHEN AND BEVERAGE COUNTER AREAS.
PT-3	DOOR FRAME. WHEN OPEN CEILING - UPPER DINING ROOM WALLS AND DINING ROOM CEILING.	BENJAMIN MOORE	1615	ROCK GRAY, SATIN	DOOR FRAME. IN OPEN CEILING CONDITION, EVERYTHING ABOVE 12'AFF IN DINING ROOM
PT-4					
PT-5	INTERIOR DOORS	MINWAX	WOOD FINISH PENETRATING STAIN	WEATHERED OAK 270	FINISH WITH CLEAR TOP COAT
PT-6	LOW WALL/SILL CAP	BENJAMIN MOORE	#2132-10	BLACK, EGGSHELL OR SEMI GLOSS	LOW WALL CAP AND WINDOW SILL FINISH.

WALL TILE					
TAG	SURFACE	MANUFACTURER	PRODUCT	COLOR	COMMENTS
WT-1	CERAMIC TILE	DAL TILE	2X8 MOD JM BLUE	PART#: N519 JM28MOD1P2. GROUT: MAPEI ULTRACOLOR PLUS FA - IRON 107	BACK SPLASH TILE IN KITCHEN AND BEVERAGE COUNTER. RUNNING BOND. USE SCHULTER JOLLY (POLISHED NICKEL) FOR EDGING. WALL TILE EXTENDS TO 6'-8" AFF.
WT-2	CERAMIC TILE	DAL TILE	IRONCRAFT	SABLE BLACK IC15-UNPOLISHED - 12"X24". GROUT: MAPEI ULTRACOLOR PLUS FA - GRAY 09	BATHROOM BOTTOM WALL TILE. USE SCHULTER JOLLY (POLISHED NICKEL) FOR EDGING

METAL					
TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
M-1	CHAIR RAIL	GC	1/8"X3/12" HOT ROLLED STEEL	PAINTED IN BLACK SEMI-GLOSS	DINING ROOM CHAIR RAIL, WITH BUTTON HEAD HEX SOCKET SCREW

UPHOLSTERY					
TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
UP-1	BANQUETTE	NASSAMI	TOLSTOY - SYMPHONY COLLECTION	WHISKEY	BANQUETTE SEATING - 3" THICK FOAM



LEGEND

- ① 4 PANEL MENU BOARD
- ② JUICE WALL (WOOD PLANK ACCENT WALL)
- ③ BEACH CHAIRS (TYPICAL 2 PER SETUP)
- ④ "REFRESH" BANNER ABOVE
- ⑤ "PICK UP HERE" BANNER ABOVE TOWER
- ⑥ GRILL GRAPHIC
- ⑦ VESTIBULE ART
- ⑧ RESTROOM ART
- ⑨ SURFBOARD
- ⑩ WALL MURAL (CUSTOM SIZE BEHIND BANQUETTE OR 10'-0" WIDTH)

- 2 SEAT TABLE
- 2 SEAT HIGH TOP TABLE
- 4 SEAT ADA TABLE

1 GRAPHICS & FINISH PLAN
Scale: 3/16" = 1'-0"

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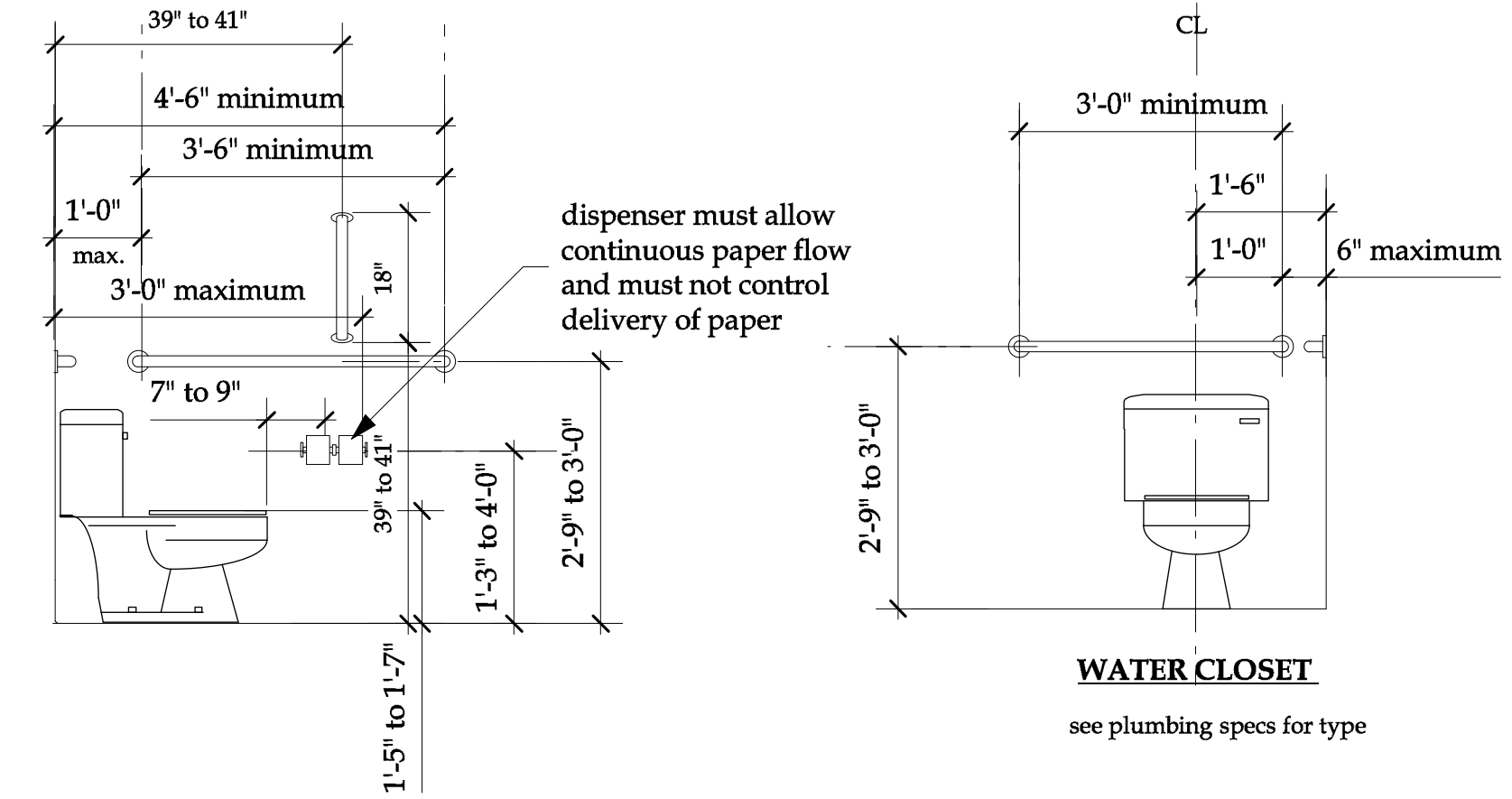
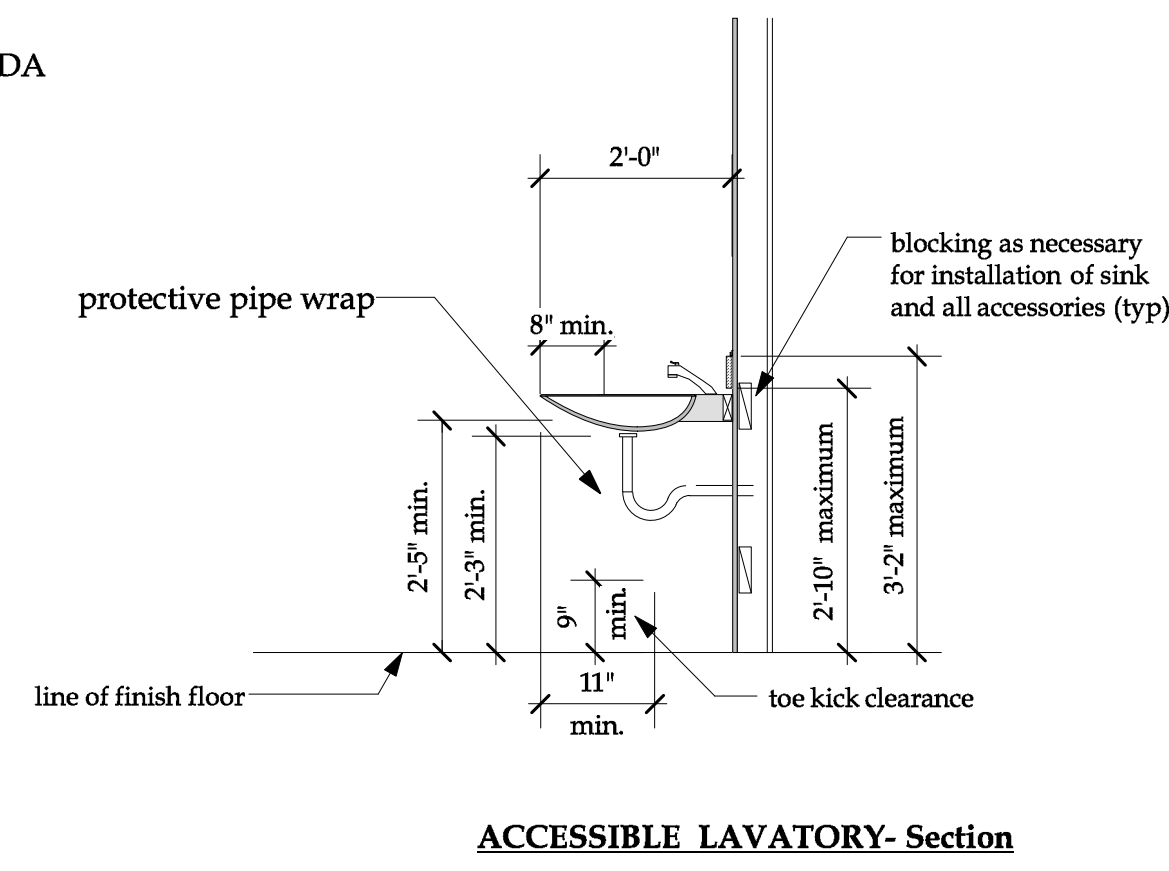
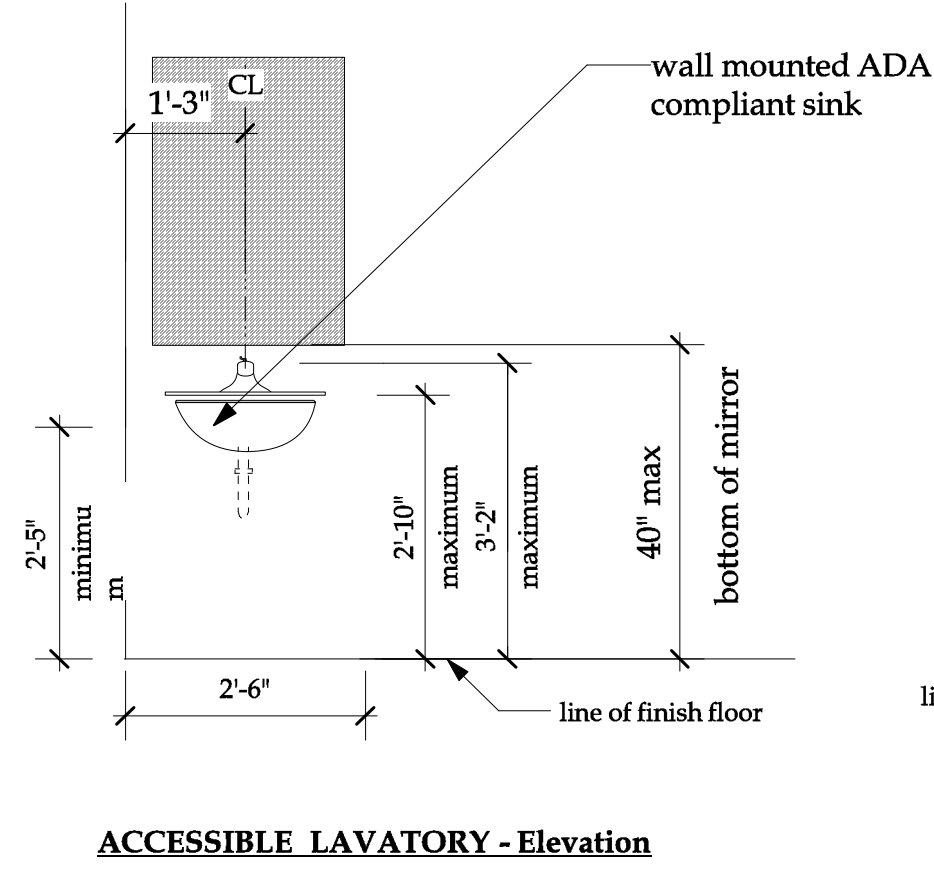
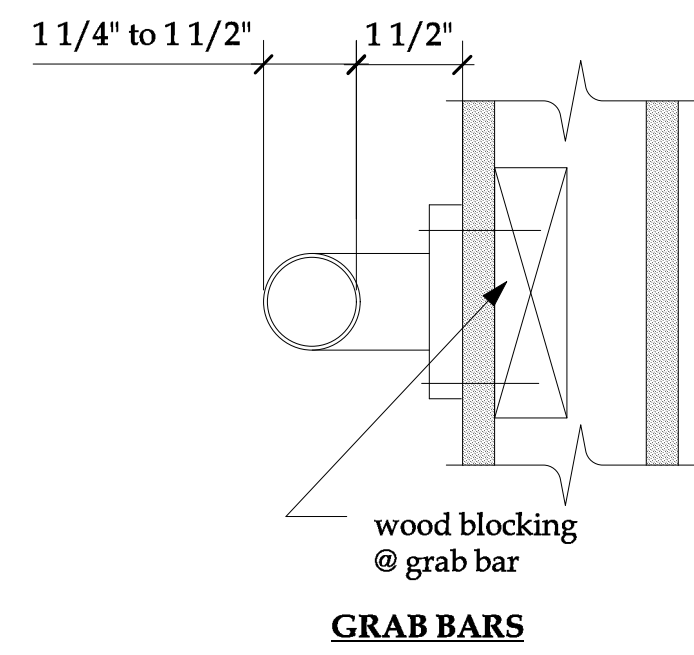
REVISIONS	DESCRIPTION	DATE
NO		

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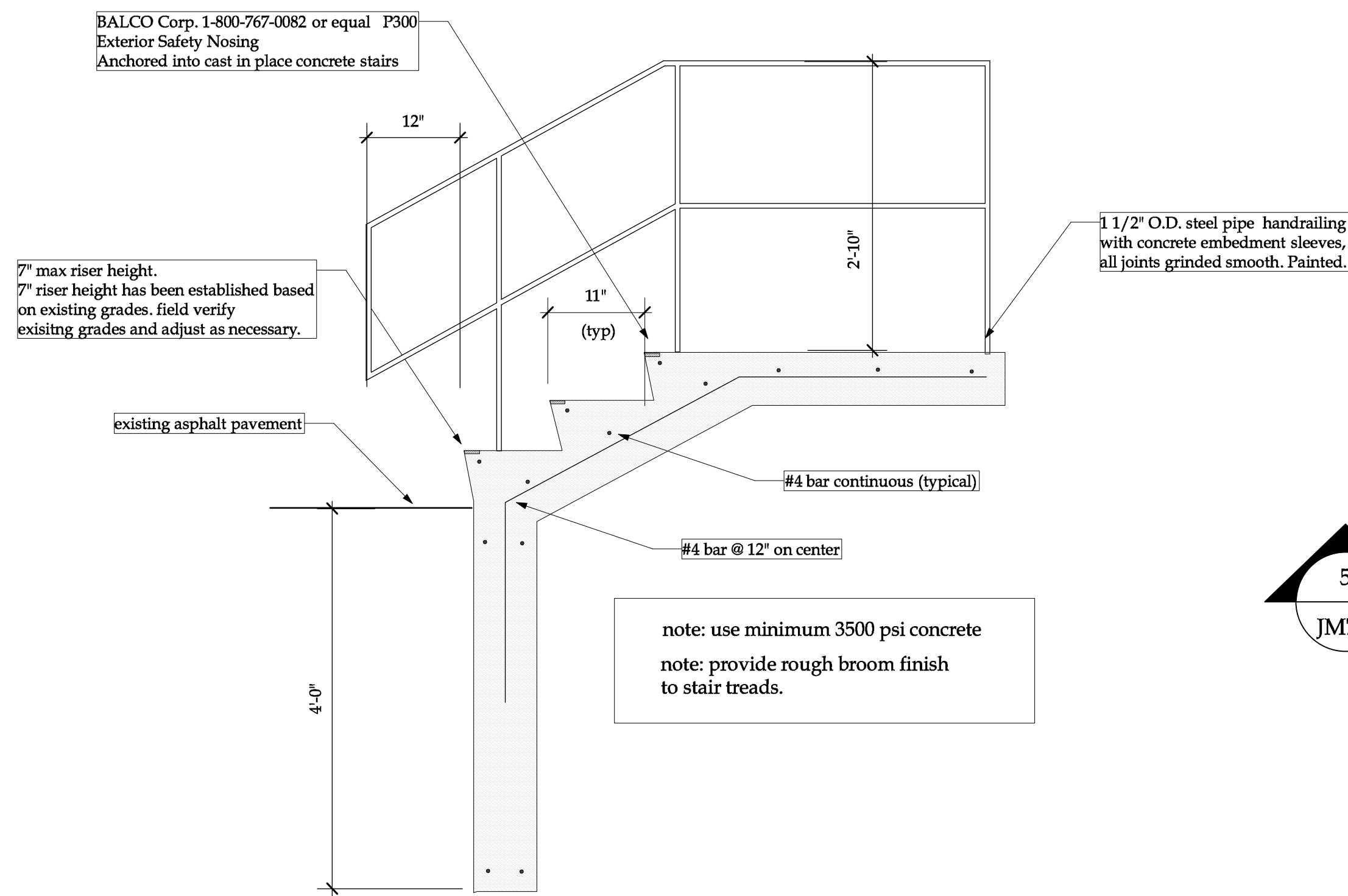
3 ADA Restroom Signage

NTS



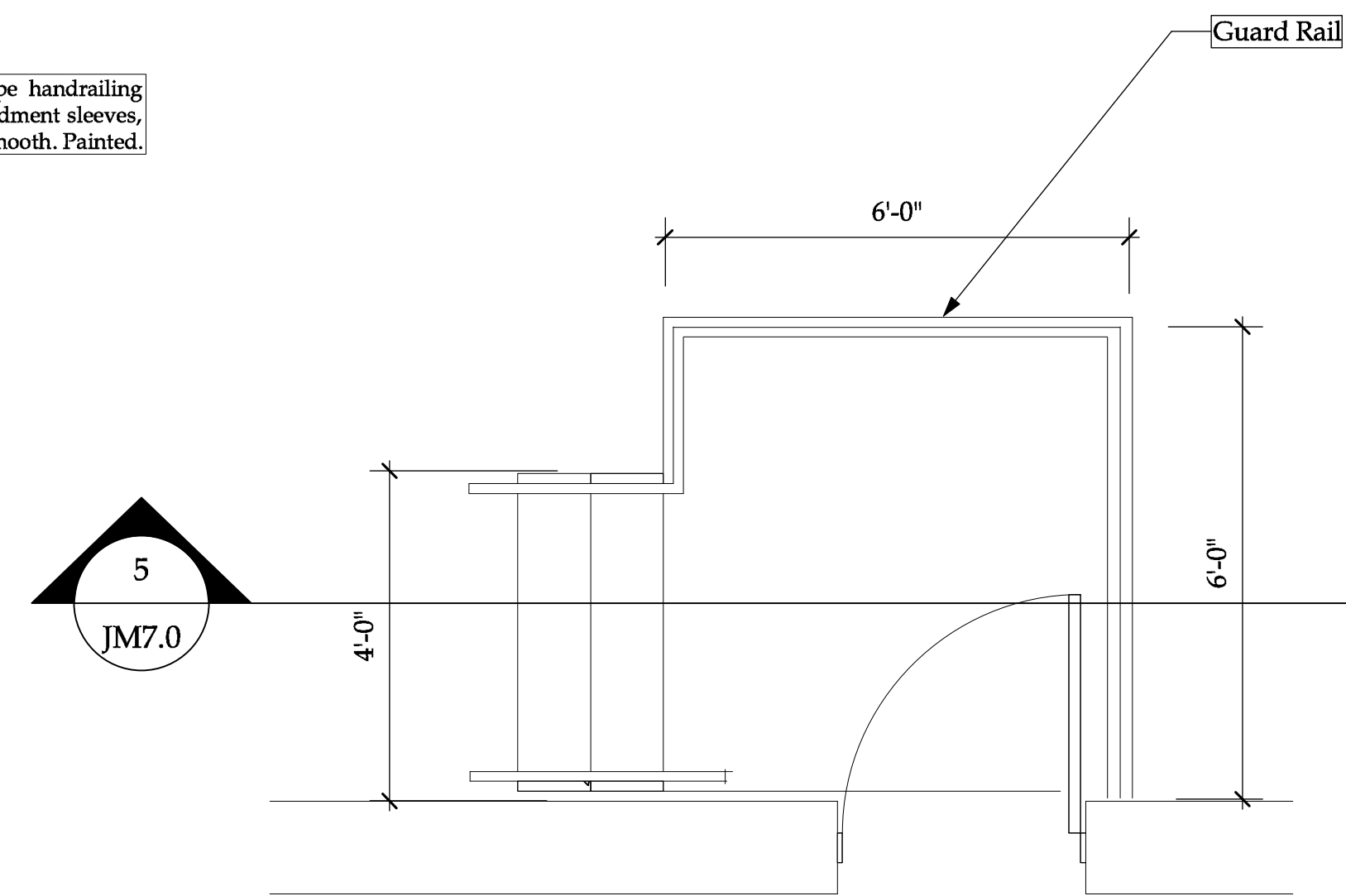
2 Accessible Restroom Details

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



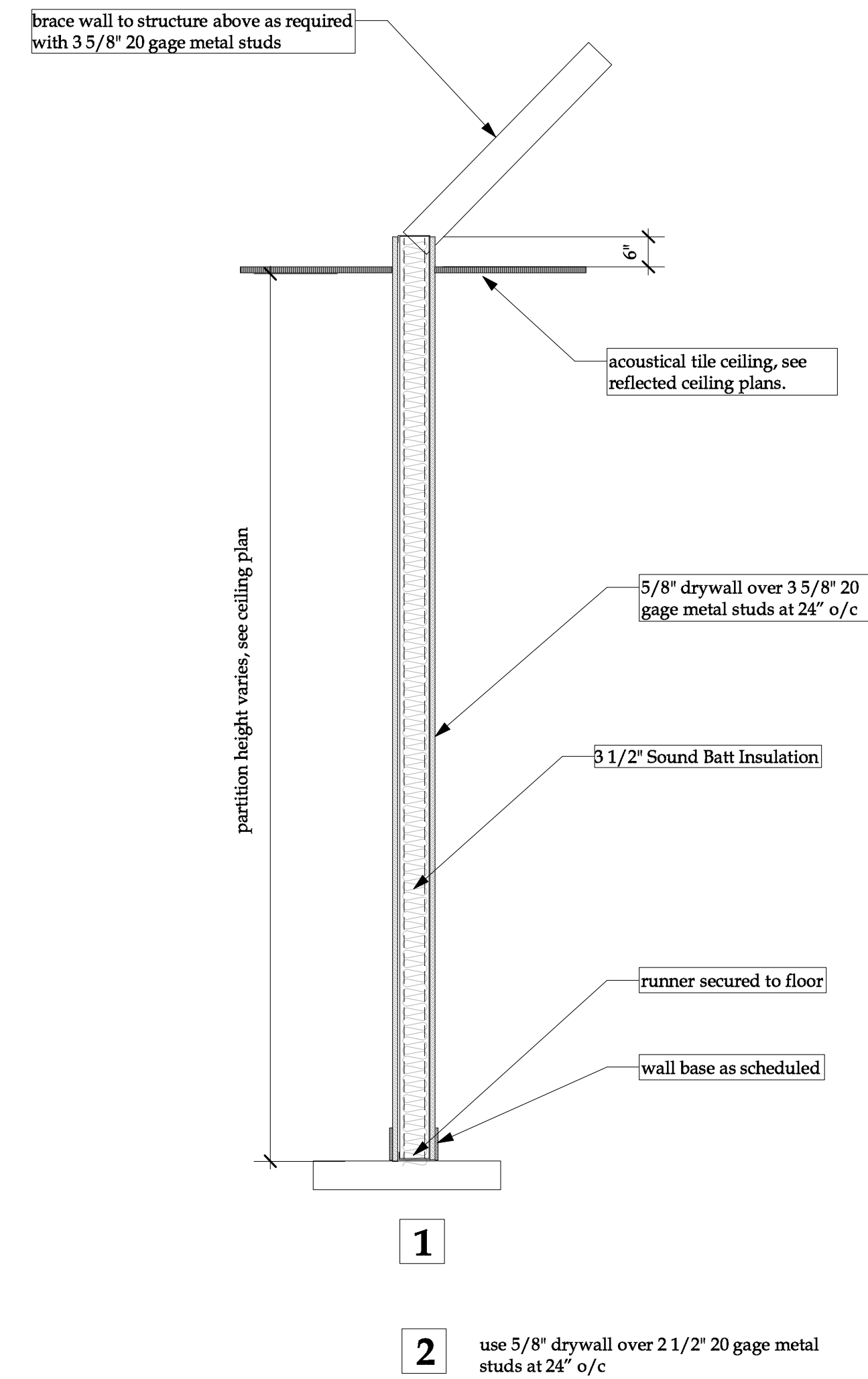
5 Concrete Stair Section

Scale: NTS



4 Concrete Stair Plan

Scale: NTS



1 Partition Types

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

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Details
JM7.0
 JOB NO. 19024

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PLUMBING GENERAL NOTES

1. FIXTURES AND EQUIPMENT ARE INDICATED ON PLUMBING SHEETS FOR GENERAL REFERENCE ONLY, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL FIXTURES AND EQUIPMENT. KITCHEN FIXTURES AND EQUIPMENT ARE SCHEDULED ON ARCHITECTURAL DRAWINGS.
2. ALL WORK SHALL BE BY LICENSED PLUMBER AND IN ACCORDANCE WITH APPLICABLE CODES.
3. PLUMBING WATER (COLD AND HOT, 110°F & 140°F) PIPING UP TO 1" SHALL BE TYPE B PEX (WHERE APPROVED BY AUTHORITY HAVING JURISDICTION) WITH BRASS FITTINGS AND CRIMPED JOINTS, 100 PSIG RATED. PLUMBING PIPING 1-1/4" AND LARGER SHALL BE SCHEDULE 40 CPVC WITH SOLVENT WELD JOINTS. INSULATE PIPING CONTINUOUSLY WITH ELASTOMERIC FOAM PIPE INSULATION (3/4" FOR CW, 1" FOR HW AND HWR) EXCEPT WHERE OTHERWISE SPECIFIED, PROVIDE CONTINUOUS SEAL AROUND ALL SEAMS AND JOINTS WITH INSULATION MANUFACTURER'S SEALING COMPOUND. PROVIDE 1/4-TURN BALL STOP VALVES AT FINAL CONNECTION TO FIXTURES, APPLIANCES, OR EQUIPMENT. ALL MATERIALS SHALL BE APPROVED FOR DOMESTIC WATER (POTABLE) SERVICE.
4. SANITARY DRAINAGE AND VENT PIPING SHALL BE DWV PVC WITH SOLVENT WELD JOINTS. PIPING 2-1/2" AND SMALLER SHALL BE SLOPED AT MINIMUM 2 PERCENT, PIPING 3" AND LARGER SHALL BE SLOPED AT MINIMUM 1 PERCENT. PROVIDE DRAINAGE PATTERN FITTINGS.
5. NATURAL GAS PIPING SHALL BE SCHEDULE 40 STEEL, ASTM A53, WITH MALLEABLE IRON FITTINGS AND THREADED JOINTS. PIPING CONCEALED BEHIND WALLS OR BELOW SLAB SHALL HAVE ALL WELDED JOINTS. PIPING WHICH IS SUBJECT TO WEATHER SHALL BE CLEANED, PRIMED AND PAINTED WITH 2 COATS EXTERIOR GRADE, UV-RESISTANT PAINT.
6. TRAP PRIMERS SHALL BE PROVIDED FOR ALL FLOOR DRAINS AND HUB DRAINS, EXCEPT WHERE DRAIN RECEIVES A CONTINUOUS DISCHARGE AND WHERE LAHJ APPROVES INSTALLATION WITHOUT TRAP PRIMER.
7. WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF BUILDING INSULATION ASSEMBLY.
8. PROVIDE SIGN DIRECTING ALL EMPLOYEES TO WASH HANDS.
9. SEAL AROUND EDGES OF ALL WALL-MOUNTED FIXTURES WITH APPROVED CAULK/SEALING COMPOUND.
10. WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODES AND STANDARDS ADOPTED BY THE AUTHORITY HAVING JURISDICTION AND ALL APPLICABLE LOCAL ORDINANCES.
11. CONTRACTOR SHALL OBTAIN ALL PERMITS, LICENSES, INSPECTIONS, ETC., AND PAY ALL INCIDENTAL FEES, AS REQUIRED TO OBTAIN A PERMIT AND A PERMANENT CERTIFICATE OF OCCUPANCY.
12. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS. CONFLICTS WHICH ARISE DUE TO LACK OF PROPER COORDINATION SHALL BE CORRECTED AT THE CONTRACTOR'S COST.
13. DESIGN INDICATED IS SCHEMATIC AND MAY NOT REFLECT ALL CONSTRAINTS IMPOSED BY ACTUAL PROJECT CONDITIONS. CONTRACTOR SHALL VISIT SITE AND REVIEW CONSTRUCTION DOCUMENTS (INCLUDING ALL TRADES) TO FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BID. CONTRACTOR'S BID SHALL INCLUDE ANY AND ALL COSTS REQUIRED TO REWORK THE DESIGN TO FIT WITHIN THE PHYSICAL CONSTRAINTS WHILE ACHIEVING THE OVERALL DESIGN INTENT.
14. THE BASIS-OF-DESIGN PRODUCTS WERE USED TO DETERMINE DIMENSIONS, INSTALLATION AND ACCESS CLEARANCES, SUPPORTS, ELECTRICAL SERVICE, CONNECTION ARRANGEMENTS, ETC. WHERE ALTERNATE PRODUCTS ARE PROVIDED, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL REQUIREMENTS AND RECTIFY ANY CONFLICTS AT THE CONTRACTOR'S COST.
15. ALL WORK SHALL BE INSTALLED TO AVOID CONFLICT WITH ELECTRICAL EQUIPMENT "DEDICATED SPACE" AS REQUIRED BY NEC AND LOCAL ORDINANCES. COORDINATE LOCATIONS OF ALL ELECTRICAL GEAR (DISTRIBUTION PANELS, TRANSFORMERS, SWITCHGEAR, ETC.) WITH ELECTRICAL CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION.
16. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL EQUIPMENT AND DEVICES WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
17. ALL MATERIALS AND EQUIPMENT SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO ORDERING. CONTRACTOR ASSUMES LIABILITY AND COSTS FOR ANY PRODUCT WHICH IS ORDERED PRIOR TO RECEIPT OF APPROVED SUBMITTALS.
18. ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE. ADDITIONAL WARRANTY SHALL APPLY WHERE SPECIFIED.
19. EQUIPMENT START-UP AND COMMISSIONING SHALL BE PERFORMED BY FACTORY-AUTHORIZED AGENTS ONLY. SUBMIT WRITTEN START-UP PROCEDURES TO OWNER FOR APPROVAL PRIOR TO PERFORMANCE OF START-UP ACTIVITIES. FINAL REPORTS SHALL BE APPROVED BY OWNER.
20. ALL PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH UL-LISTED SYSTEM APPROVED FOR THE APPLICATION.
21. FLASH AND SEAL ALL PENETRATIONS OF BUILDING EXTERIOR, WALLS AND ROOF WITH APPROVED SEALANT.
22. ALL WORK INSTALLED WITHIN HVAC PLENUMS SHALL BE PLENUM RATED (25/50 FLAME SPREAD/SMOKE DEVELOPED) AND, WHERE REQUIRED BY THE LAHJ, SHALL BE NON-COMBUSTIBLE.
23. ALL EQUIPMENT SHALL BE NEW EXCEPT FOR EQUIPMENT SPECIFICALLY NOTED AS EXISTING TO REMAIN. CONTRACTOR SHALL TEST EXISTING EQUIPMENT FOR PROPER OPERATION AND REPORT CONDITION TO OWNER. ALL UNREPORTED EQUIPMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED IF NOT FUNCTIONAL AT THE DATE OF BENEFICIAL OCCUPANCY. NEW EQUIPMENT SHALL BE UL OR ETL LISTED AND LABELED. GAS-FIRED EQUIPMENT SHALL ALSO BE AGA OR CSA LISTED AND LABELED. INSTALL ALL EQUIPMENT PER THESE DOCUMENTS, MANUFACTURER'S RECOMMENDATIONS, AND CODE REQUIREMENTS FOR SPECIFIC APPLICATION.
24. EXCEPT WHERE SPECIFIED OTHERWISE, MECHANICAL CONTRACTOR SHALL PROVIDE STARTERS AND ELECTRICAL DISCONNECTS FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
25. PROVIDE PERMANENT LABELS FOR ALL EQUIPMENT, CONTROLS, AND PIPING.
26. PROVIDE PRESSURE REDUCING VALVE IF LINE PRESSURE EXCEEDS 80 PSI, SET TO 60 PSI.

PLUMBING FIXTURES AND EQUIPMENT

MARK	FIXTURE TYPE	MANUFACTURER & MODEL NO.	FIXTURE CONNECTIONS				REMARKS
			CW	HW	W	V	
MS	MOP SINK	E.L. MUSTEE #63M, 24" x 24"	1/2"	1/2"	3"	2"	DELTA FAUCET #28T9, W/VAC. BREAKER, WALL BRACE, INTEGRAL STOPS. FINAL HOOK-UPS BY P.C. PROVIDE HOOKS OR HANG-UP BRACKETS AT THE UTILITY SINK FOR THE STORAGE OF MOPS AND BROOMS.
FS	FLOOR SINK	JONES STEPHENS #S59-093	-	-	3"	2"	PVC BODY, 12"x12" TOP, 9"x9" HALF GRATE, FLAT BOTTOM STRAINER
HD	HUB DRAIN	N/A	-	-	2"	2"	3"x4" REDUCER TO RECEIVE INDIRECT WASTE
FCO	FLOOR CLEAN OUT	JONES STEPHENS #C60	-	-	AS NOTED	-	PVC SPUD WITH 6" ROUND SCORATED TOP W/ POLISHED BRONZE FINISH, ADJUSTABLE TOP.
WH-1	INSTANTANEOUS WATER HEATER, CONDENSING, DIRECT VENT	RINNAI CU199i	3/4"	3/4"	-	-	COMMERCIAL CONDENSING, DIRECT VENTED, TANKLESS WATER HEATER; NATURAL GAS; 199 MBH INPUT; 0.96 ENERGY FACTOR; 3.8 GPM AT 100°F RISE; WALL-MTD COMMERCIAL CONTROLLER (98-185F USER ADJUSTABLE) SET TO 140°F; 0.4 GPM ACTIVATION; 0.26 GPM MIN; 120V/1PH; GROUNDED CORDSET; CONCENTRIC VENT AND COMBUSTION AIR PIPE, FITTINGS AND ROOF TERMINATION.
HWRP	HOT WATER RECIRC PUMP	TACO 008	3/4"	3/4"	-	-	3 GPM @ 14 FT WC; 1/25 HP; 120V/1PH; 3250 RPM; ALL BRONZE; 230F/125 PSI RATED; CHK VALVE; POWER PUMP THROUGH PIPE-MTD THERMOSTAT (TEMP SETPOINT 104°F) AND 7-DAY PROGRAMMABLE TIMECLOCK W/2,500 HR CAPACITOR POWER BACKUP, EQUAL TO TACO "AQUASTAT" AND "OO DIGITAL TIMER"

GAS LOAD AND SIZING SUMMARY:

1. **LOAD SUMMARY:**
 SPACE HEATING (EXIST. RTU-1,2) = 273 MBH
 MAKE-UP HEATING (KSF-1) = 40 MBH
 WATER HEATING (WH-1) = 199 MBH
 COOKING (RANGE) = 135 MBH
 TOTAL = 647 MBH
2. **PIPE SIZING SUMMARY:**
 • 7" W.C. INLET PRESSURE
 • 0.5 IN. W.C. PRESSURE DROP
 • 145 FT TOTAL EQUIV. LENGTH
 • IFGC TABLE 402.4(2) SCHEDULE 40 METALLIC PIPE IS USED.
3. **CONTRACTOR TO VERIFY PRESSURE AND PIPING LENGTHS ON SITE AND ADJUST PIPE SIZES IN ACCORDANCE WITH IFGC CHAPTER 4.**

FIRE PROTECTION GENERAL NOTES

1. CONTRACTOR SHALL RECONFIGURE EXISTING FIRE PROTECTION SYSTEM PER NFPA 13, GOVERNING CODE, AND SUPPLEMENTAL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
2. ALL DRAWINGS AND SUPPORTING CALCULATIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED BY THE CONTRACTOR AND SIGNED AND SEALED BY CONTRACTOR'S REGISTERED PROFESSIONAL ENGINEER OR CERTIFIED FIRE SPRINKLER CONTRACTOR.
3. ALL SPRINKLER PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE TO AVOID CONFLICTS WITH DUCTWORK AND OTHER CONSTRUCTION, AND TO MAINTAIN MINIMUM CLEAR CEILING HEIGHTS INDICATED ON ARCHITECTURAL DRAWINGS.
4. SPRINKLER PIPING SHALL BE SCHEDULE 40 STEEL WITH MALLEABLE IRON FITTINGS AND THREADED JOINTS. ALL SYSTEM MATERIALS SHALL BE UL LISTED AND FM APPROVED FOR FIRE PROTECTION SERVICE.
5. SPRINKLER HEADS IN CEILINGS ALL BE SEMI-RECESSED WITH CHROME-PLATED ESCUTCHEON. SPRINKLER HEADS IN OPEN AREAS WITHOUT CEILINGS SHALL BE UPRIGHT TYPE.
6. SPRINKLER HEADS SHALL BE PROVIDED ON BOTH SIDES OF THE MENUBOARD.

LANDLORD SCOPE

- THE FOLLOWING ITEMS ARE BY THE LANDLORD. THIS LIST IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE EXACT SCOPE OF LANDLORD WORK WITH FRANCHISEE AND WITH LANDLORD PRIOR TO BID.
- TWO ADA COMPLIANT RESTROOMS, AS PER TENANT PLANS
 - 2" GAS LINE INCLUDING METER, AS PER TENANT PLANS
 - GREASE TRAP/EXTERIOR HOLDING TANK FIRE PROTECTION

KEYED NOTES:

1. MECHANICAL GAS SHUT-OFF VALVE BELOW CEILING, INTERLOCK TO HOOD FP SYSTEM & EXHAUST FAN PER IFGC TO DISABLE GAS WHEN THE FP SYSTEM ACTIVATES. GAS VALVE SHALL BE FULL SIZE OF PIPE SERVED UNLESS OTHERWISE NOTED.
2. PROVIDE GAS COCK, SEDIMENT TRAP, AND UNION AT CONNECTION TO EQUIPMENT. SEDIMENT TRAP SHALL BE INSTALLED AFTER THE GAS COCK, AS CLOSE TO THE UNIT CONNECTION AS PRACTICAL, AND SHALL HAVE A REMOVABLE CAP FOR CLEANING.
3. PROVIDE GAS COCK, SEDIMENT TRAP, AND FLEXIBLE CONNECTION TO COOKING EQUIPMENT. SEDIMENT TRAP SHALL BE INSTALLED AFTER THE GAS COCK AND SHALL HAVE REMOVABLE CAP FOR CLEANING.
4. CONTRACTOR SHALL COORDINATE PROPOSED GAS DEMAND WITH UTILITY PROVIDER, REPLACE METER IF REQUIRED.

GENERAL NOTES:

1. VERIFY GAS SERVICE PRESSURE. IF HIGHER THAN 7"W.G., PROVIDE VENTLESS PRESSURE REGULATOR AT EACH APPLIANCE, SET OUTLET PRESSURE PER APPLIANCE MANUFACTURER'S INSTRUCTIONS.

PLUMBING LEGEND

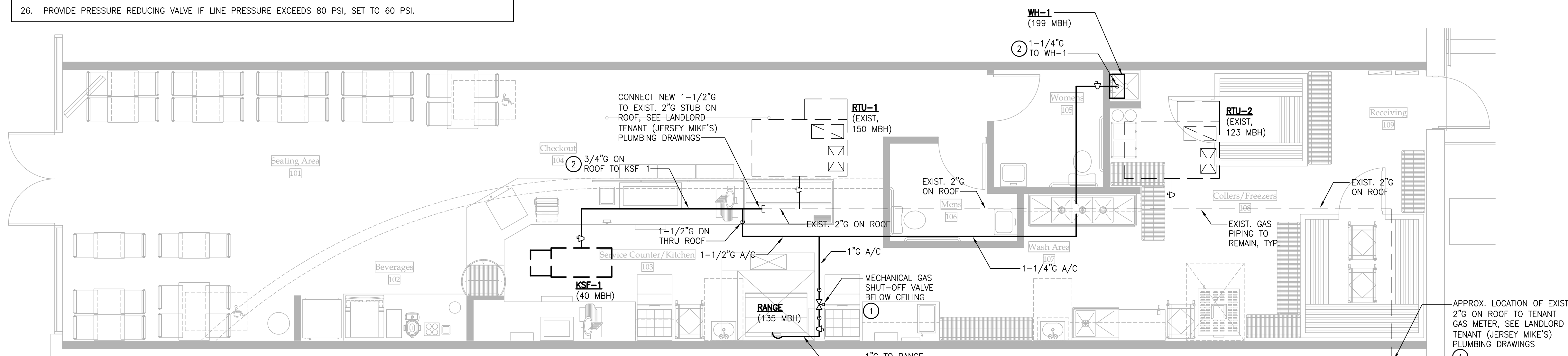
SYMBOL	DESCRIPTION
---	DOMESTIC COLD WATER PIPING
----	HOT WATER PIPING
---	SANITARY OR WASTE PIPING
----	VENT PIPING
---	GAS PIPING
⊙	CONNECTION TO EXISTING CONSTRUCTION
⊖	PRESSURE GAUGE
⊘	SHUT-OFF VALVE (TYPE AS SPECIFIED)
⊘	BALANCING VALVE (TYPE AS SPECIFIED)
⊘	PRESSURE REDUCING VALVE
⊘	CHECK VALVE
⊘	BACKFLOW PREVENTER
⊘	RELIEF VALVE
⊘	GAS COCK
⊘	STRAINER
⊘	UNION
⊘	PIPE REDUCER
⊘	PIPE END CAP
⊘	CLEANOUT
⊘	P-TRAP
⊘	CONTINUATION OF PIPING
⊘	YARD CLEAN OUT
⊘	GAS PRESSURE REGULATOR

ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

PLUMBING ABBREVIATIONS

ABBREV.	DEFINITION
AAV	AIR ADMITTANCE VALVE
A/C	ABOVE CEILING
ABV	ABOVE
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
B/F	BELOW FLOOR
B/G	BELOW GRADE
BTUH	BRITISH THERMAL UNITS PER HOUR
CO	CLEANOUT
CLG	CEILING
CONN	CONNECT(ION)
CONT	CONTINUATION
CW	DOMESTIC COLD WATER
DN	DOWN
EX	EXISTING
GW	GREASE WASTE
FD	FLOOR DRAIN
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
IE	INVERT ELEVATION
O/H	OVERHEAD
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
SAN OR S	SANITARY
TP	TRAP PRIMER
TYP	TYPICAL
V	VENT
W	WASTE
YCO	YARD CLEAN OUT

ALL ABBREVIATIONS MAY NOT APPEAR ON DRAWINGS.



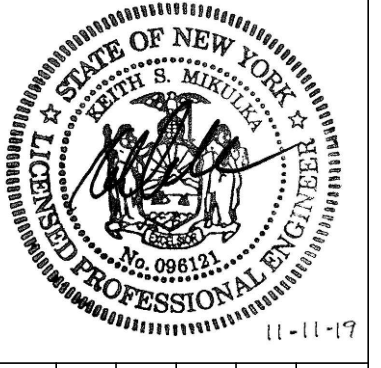
1 GAS SUPPLY FLOOR PLAN
 P-1.1 SCALE: 1/4" = 1'-0"

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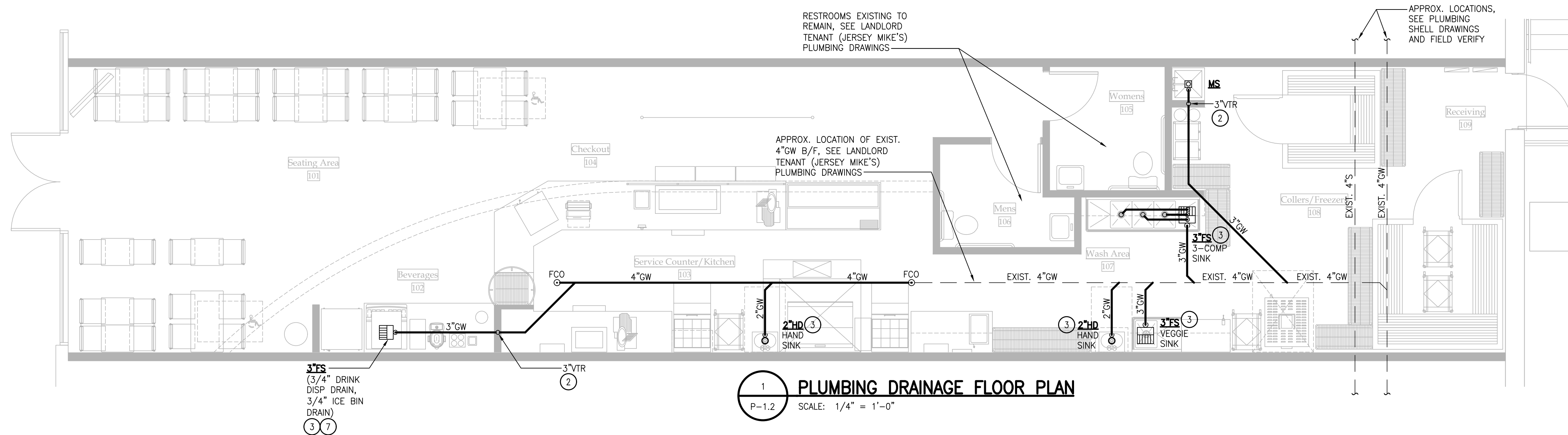


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PLUMBING GENERAL PLAN
P-1.1
 JOB NO. 19022

DATE: OCTOBER 14, 2019 DOCUMENT STATUS: PERMIT SET BID SET FIELD REPORT FINAL FOR CONSTRUCTION



GENERAL NOTES:

- CONTRACTOR SHALL CONFIRM EXISTING CONDITIONS PRIOR TO BID.
- COORDINATE ALL MECHANICAL CONSTRUCTION WITH OTHER TRADES TO AVOID CONFLICTS.
- CONFIRM LOCATIONS OF ALL EXISTING UTILITIES AND ADJUST ROUTING OF TENANT SYSTEMS AS REQUIRED.
- EXISTING PLUMBING SERVICES (COLD WATER, HOT WATER, WASTE AND VENT) WHICH ARE NOT TO BE REUSED SHALL BE REMOVED BACK TO ACTIVE MAINS AND CAPPED. THERE SHALL BE NO "DEAD ENDS" LEFT IN PIPING SYSTEMS.
- FLOOR SINKS SHALL BE SET AT LEADING EDGE OF FIXTURE/EQUIPMENT SERVED TO FACILITATE INSPECTION AND CLEANING.

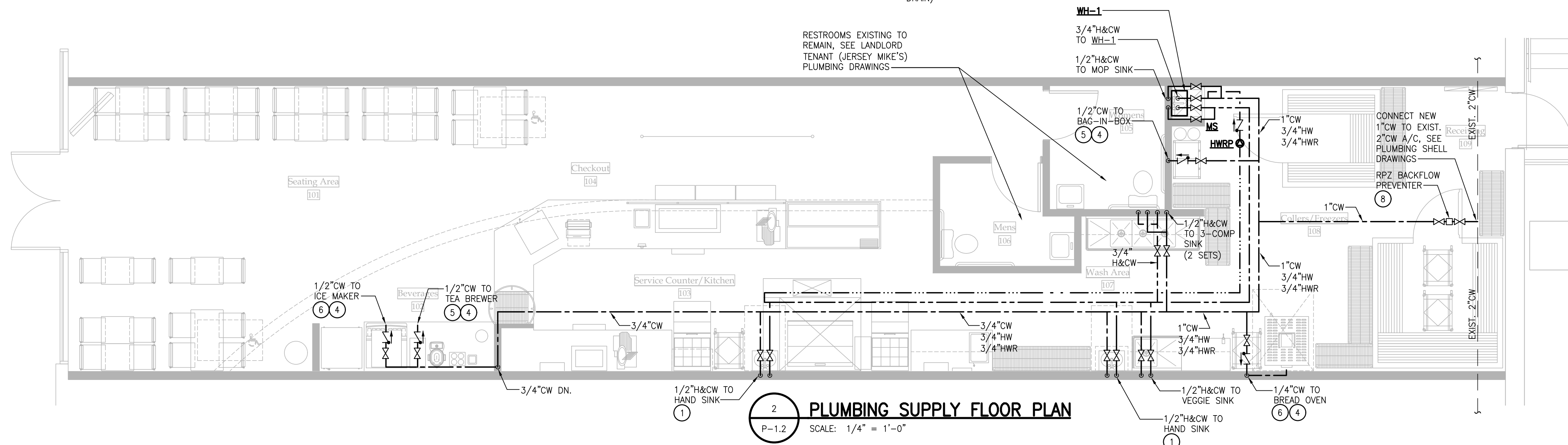
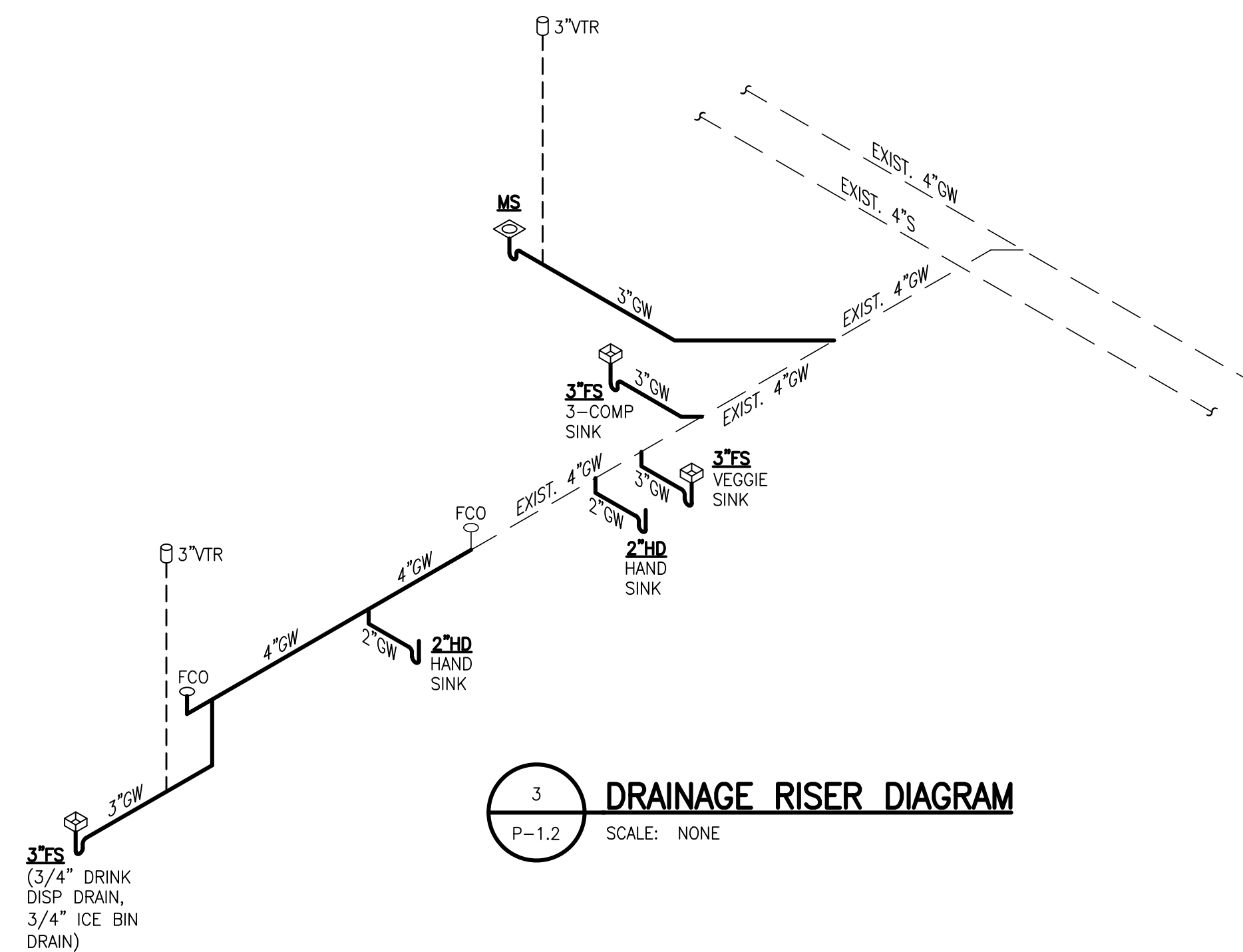
KEYED NOTES:

- PROVIDE ASSE 1070 TEMPERING VALVE, SET TO 110°F OUTLET, AT EACH LAVATORY AND HAND SINK.
- VENTS SHALL BE MIN 10'-0" FROM ANY OUTDOOR AIR INTAKE.
- ROUTE FIXTURE/EQUIPMENT DRAIN TO HUB DRAIN (HD) OR FLOOR SINK (FS) AS INDICATED, TERMINATE WITH 45-DEGREE CUT END AND AIR GAP MINIMUM 2 PIPE DIAMETERS.
- PROVIDE WATER HAMMER ARRESTOR.
- PROVIDE ASSE 1022 BACKFLOW PREVENTER.
- PROVIDE ASSE 1012 BACKFLOW PREVENTER.
- AT OWNER'S OPTION, IF APPROVED BY AHJ, HUB DRAIN MAY BE PROVIDED IN LIEU OF FLOOR SINK FOR INDIRECT WASTE.
- COORDINATE LOCATION OF RPZ BACKFLOW PREVENTER WITH AUTHORITY HAVING JURISDICTION. PIPE FULL SIZE RELIEF OUTSIDE, SPILL ON GRADE. RPZ BACKFLOW PREVENTER MAY BE OMITTED IF SUITE OR BUILDING IS ALREADY SERVED BY A RPZ BACKFLOW PREVENTER (CONTRACTOR FIELD VERIFY). ANY EXISTING RPZ TO BE REUSED SHALL BE TESTED AND CERTIFIED FOR PROPER OPERATION.

LANDLORD SCOPE

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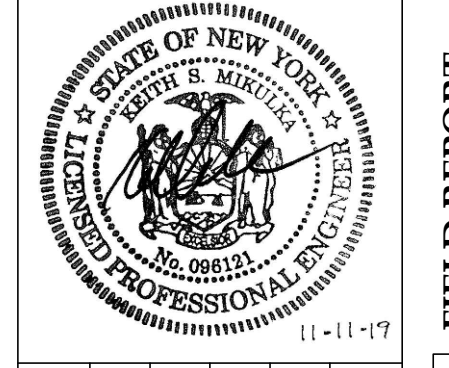
- TWO ADA COMPLIANT RESTROOMS, AS PER TENANT PLANS
- 2" GAS LINE INCLUDING METER, AS PER TENANT PLANS
- GREASE TRAP/EXTERIOR HOLDING TANK
- FIRE PROTECTION



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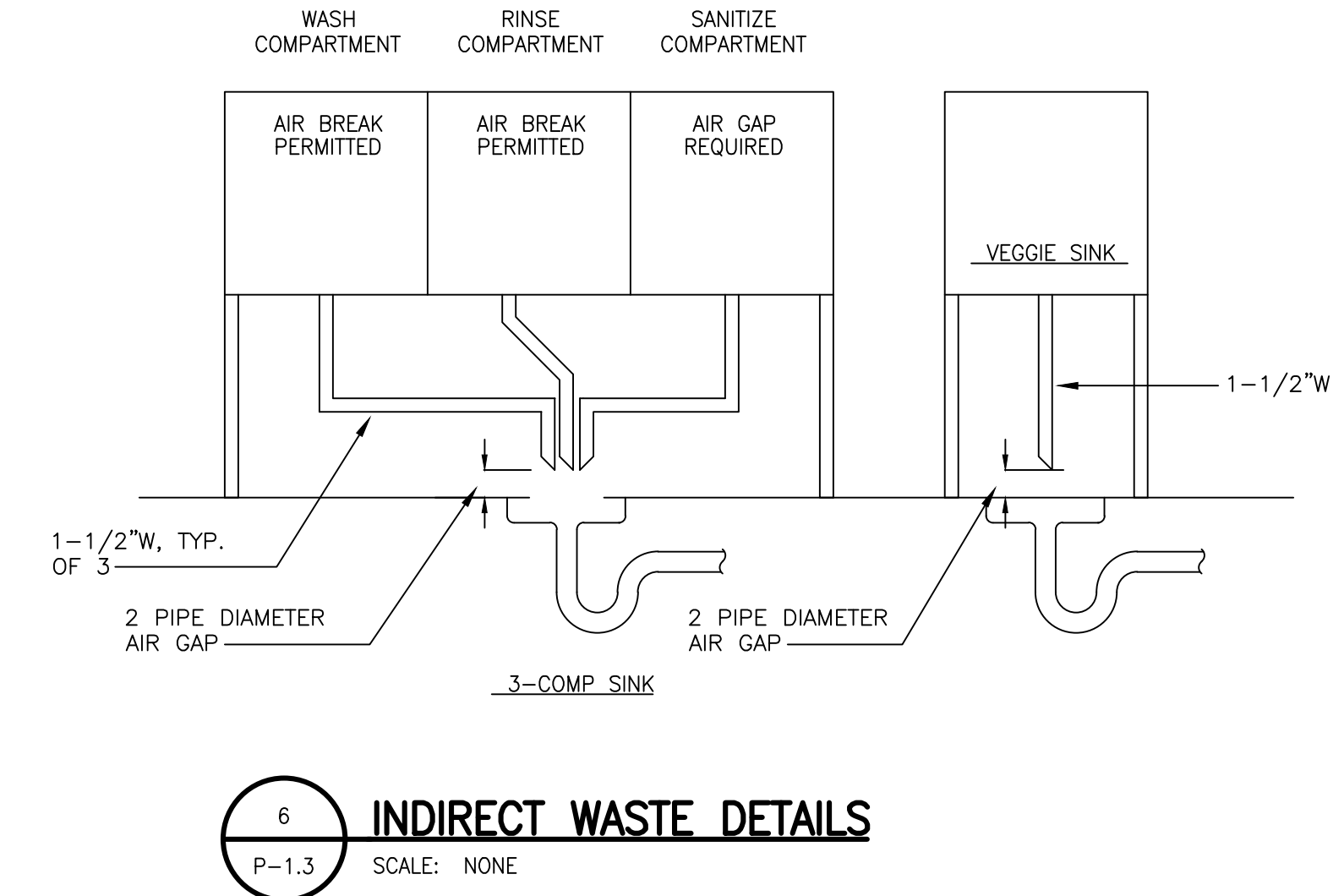
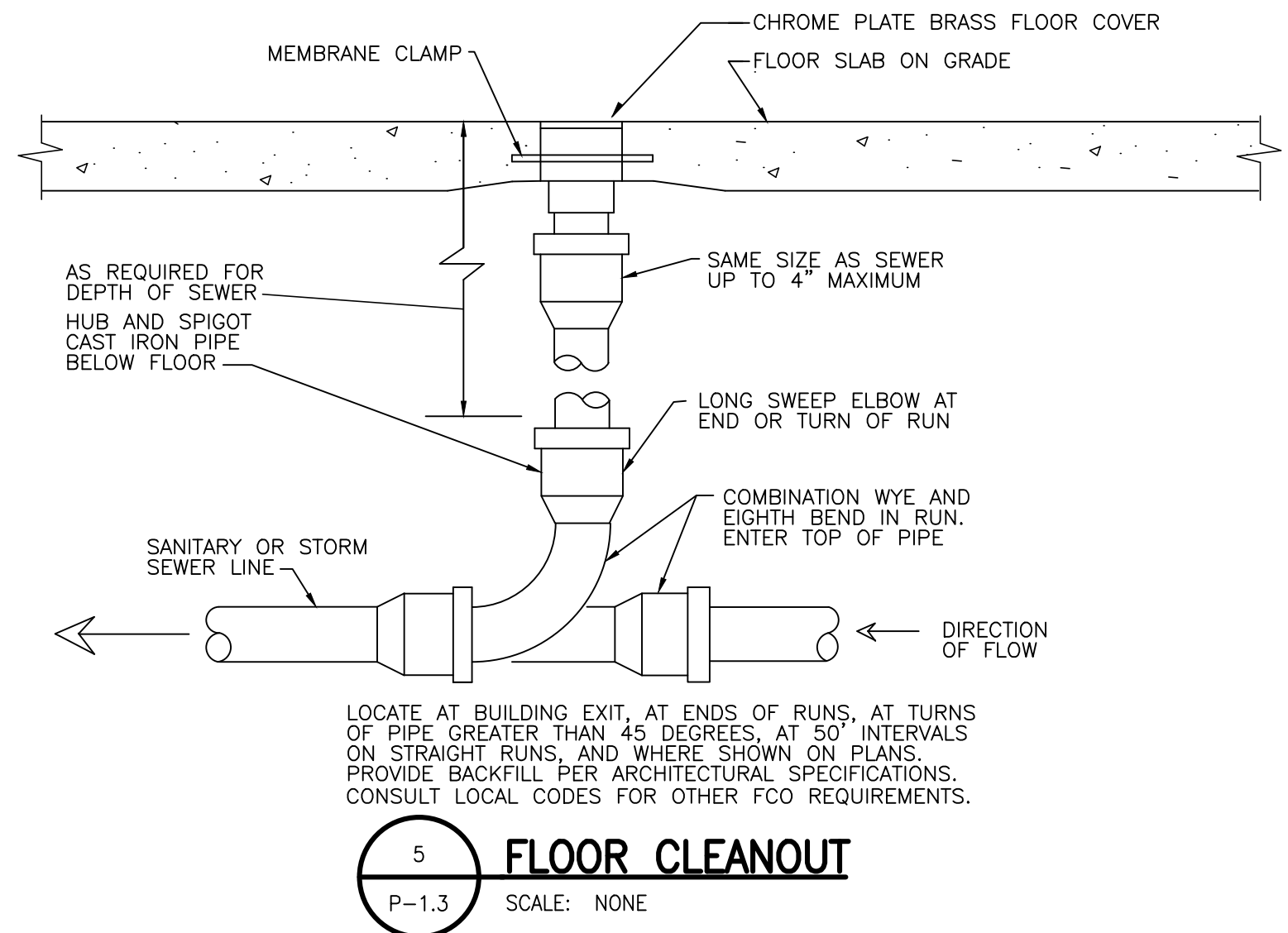
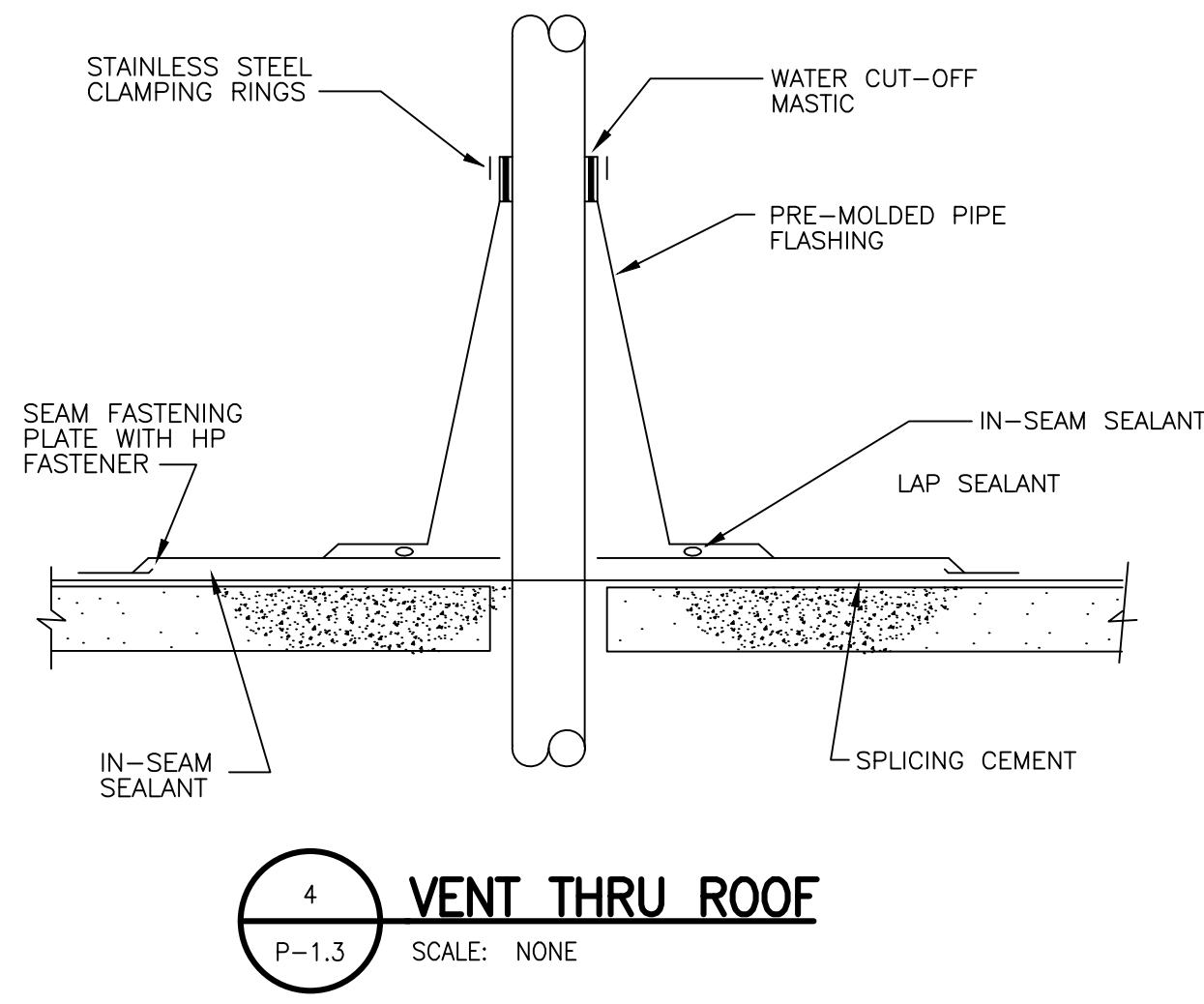
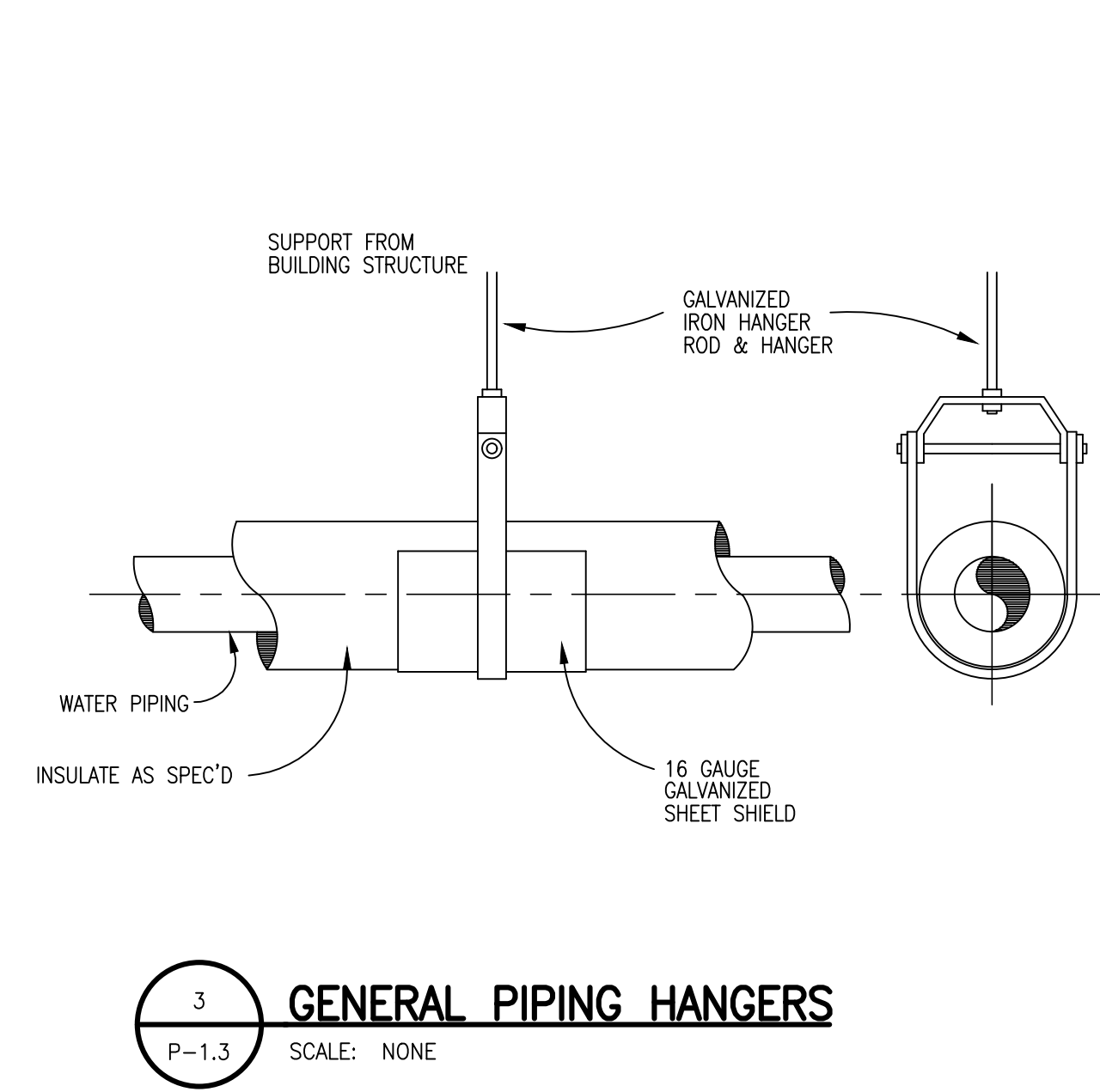
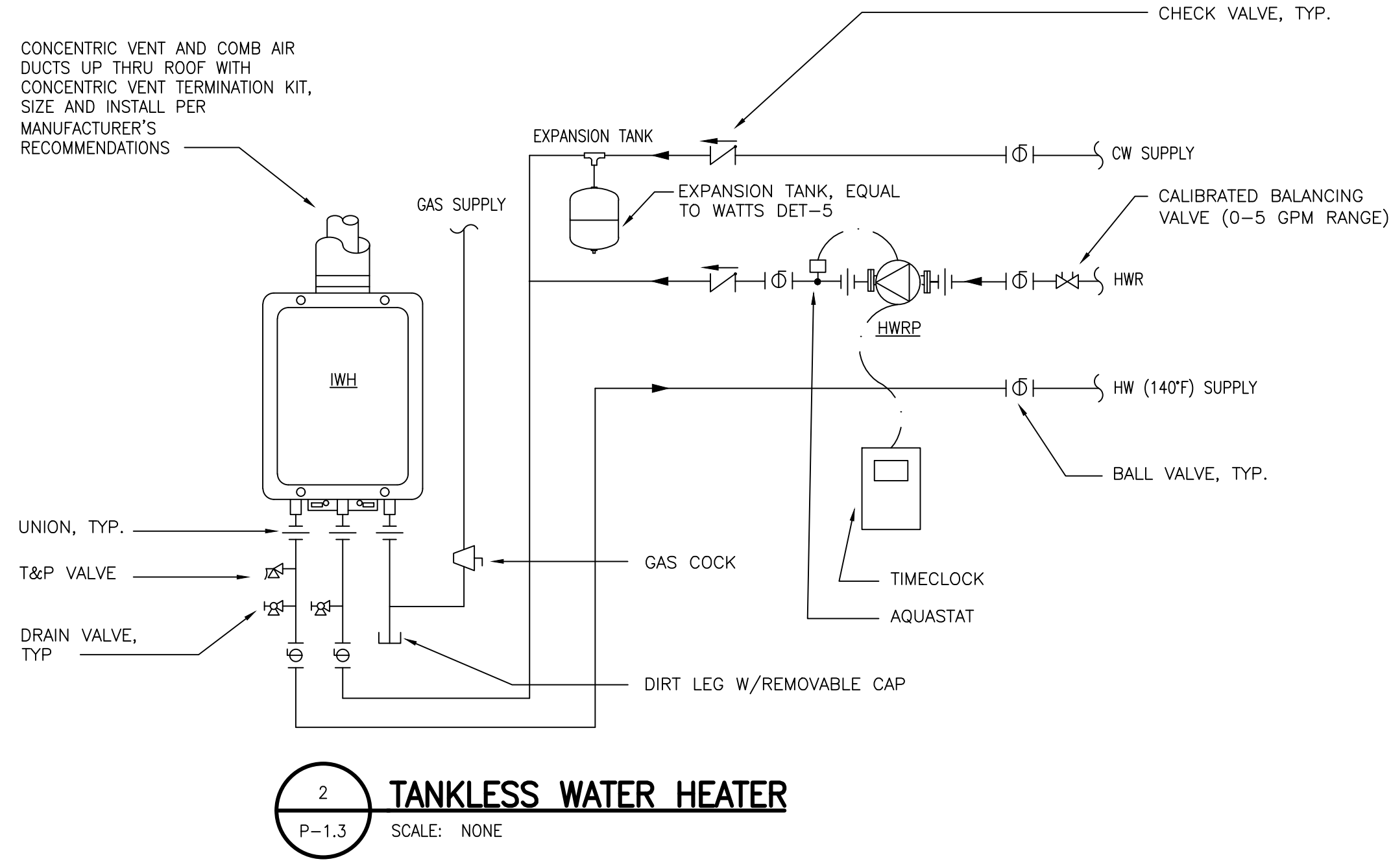
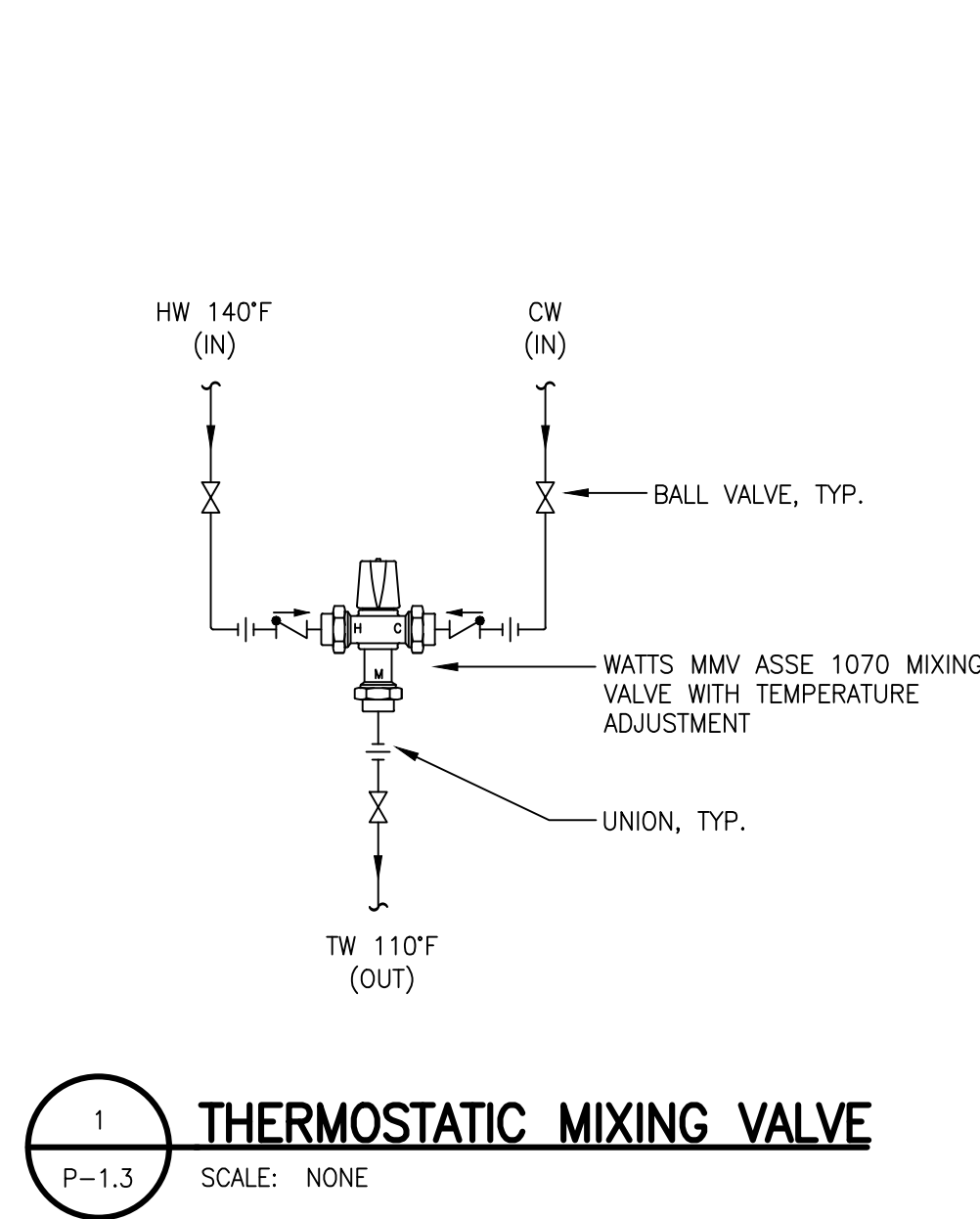
PLUMBING SUPPLY & DRAINAGE PLAN & RISER DIAGRAM

P-1.2

JOB NO. 19022

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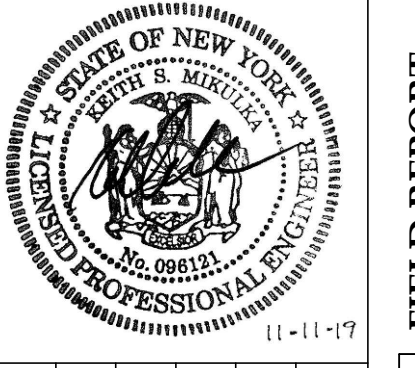
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PLUMBING DETAILS
P-1.3
JOB NO. 19022

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DIVISION 16
ELECTRICAL

- 16010 GENERAL PROVISIONS
- 16012 CODES AND STANDARDS
- 16020 ELECTRICAL SYSTEMS SCHEDULE
- 16030 TESTS
- 16100 BASIC METHODS AND MATERIALS
- 16110 RACEWAYS
- 16120 CONDUCTORS
- 16130 OUTLET BOXES AND DEVICES
- 16134 PANELBOARDS AND MAIN DISTRIBUTION
- 16150 MOTOR AND MOTOR CONTROLS
- 16190 SUPPORTING DEVICES
- 16450 GROUNDING
- 16480 FEEDER CIRCUITS
- 16485 BRANCH CIRCUITS
- 16500 LIGHTING – INTERIOR
- 16600 SPECIAL SYSTEMS – COMPUTER (P.O.S. SYSTEM)
- 16700 SOUND SYSTEMS
- 16740 TELEPHONE
- 16900 CONTROLS AND INSTRUMENTATION

DIVISION 16 ELECTRICAL

16010 GENERAL PROVISIONS

- .01 EXCEPT WHERE PORTIONS OF THESE SPECIFICATIONS ARE MORE EXACTING, WORK OF THIS DIVISION SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE GENERAL SCOPE OF WORK. BEFORE SUBMITTING PROPOSAL, EXAMINE ALL DRAWINGS RELATING TO THIS WORK, VERIFY ALL GOVERNING CONDITIONS AT THE SITE, DETERMINE EXACT EXTENT OF WORK REQUIRED FOR THE LOCAL UTILITY COMPANIES; BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATION TO WORK OF OTHER TRADES. NO CONSIDERATION WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDINGS OF THE MATERIALS TO BE FURNISHED OR WORK TO BE DONE, IT BEING UNDERSTOOD THAT THE SUBMISSION OF A PROPOSAL IS AN AGREEMENT TO ALL CONDITIONS REFERRED TO HEREIN OR INDICATED ON THE DRAWINGS.
- .02 REVIEW THE DRAWINGS AND SPECIFICATIONS OF ALL TRADES, PARTICULARLY THOSE SECTIONS DESCRIBING ELECTRICALLY OPERATED EQUIPMENT AND BECOME FAMILIAR WITH WORK CALLED UPON THEREIN TO DO, AT THE CONCLUSION OF THE WORK, BE RESPONSIBLE FOR THE PROPER WIRING AND FUNCTIONING OF ALL ELECTRICALLY OPERATED EQUIPMENT FURNISHED AND/OR INSTALLED UNDER THIS CONTRACT.
- .03 NO EXTRA COMPENSATION WILL BE PAID FOR CONDITIONS EXISTING BEFORE THE CONTRACT IS SIGNED. THIS INCLUDES BOTH EXISTING SITE CONDITIONS AND ARCHITECTURAL CONDITIONS OF THE NEW BUILDING.
- .04 THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR HIS WORK UNDER THE CONTRACT, AND SHALL PAY ALL EXPENSES IN CONNECTION THEREWITH. HE SHALL BE RESPONSIBLE FOR ALL NOTICE TO THE INSTALLATION AUTHORITIES AND TO THE ARCHITECT/ENGINEER SO THAT THE WORK MAY BE INSPECTED BEFORE COVERING. THE CONTRACTOR SHALL FURNISH OWNER WITH CERTIFICATES OF INSPECTION.
- .05 NO DEVIATION FROM DRAWING AND/OR SPECIFICATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM ARCHITECT/ENGINEER.
- .06 ALL PERMIT FEES, TEMPORARY SERVICE, INSPECTION FEES AND OTHER REQUIREMENTS SHALL BE PAID AND COMPLETED BY THE ELECTRICAL CONTRACTOR. EVIDENCE OF COMPLETION WILL BE APPARENT PRIOR TO FINAL ACCEPTANCE OF WORK. ALL CERTIFICATES SHALL BE FORWARDED TO OWNER.
- .07 THE WORK OF THIS CONTRACTOR SHALL CONSIST OF FURNISHING EVERYTHING NECESSARY FOR A COMPLETE OPERATING ELECTRICAL SYSTEM, IN STRICT ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. IT INCLUDES ALL SUCH WORK WHETHER LISTED UNDER ANY OTHER DOCUMENT FORMING A PART OF THE SPECIFICATION AND CONTRACT. HIS WORK, IN THE MAIN, SHALL INCLUDE, BUT IS NOT RESTRICTED TO, THE FOLLOWING ITEMS.
 - A. FURNISHING A TEMPORARY SERVICE FOR THE USE OF ALL TRADES DURING CONSTRUCTION, AS REQUIRED BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL PAY UTILITY USE COSTS UP TO TIME OF OCCUPANCY.
 - B. FURNISHING A COMPLETE ELECTRICAL DISTRIBUTION SYSTEM FOR LIGHT AND POWER, FROM POINT OF SERVICE THROUGH DISTRIBUTION SYSTEM TO PANELS, AND TO ALL OUTLETS, EQUIPMENT AND DEVICES AS INDICATED ON THE DRAWINGS.
 - C. ELECTRICAL CONNECTIONS FOR OTHER TRADES.
 - D. CONNECTION OF ALL MOTORS, STARTERS, CONTROLS, PILOT DEVICES OR DISCONNECTS, WHETHER FURNISHED BY THIS CONTRACTOR, OWNER, OTHER SUBCONTRACTOR OR OTHER PARTIES SUCH AS EQUIPMENT SUPPLIERS.
 - E. ALL ELECTRICAL WORK INCIDENTAL TO OTHER TRADES FOR A COMPLETE WORKING INSTALLATION OF THEIR ELECTRICALLY DRIVEN EQUIPMENT.
 - F. FURNISHING AND INSTALLING ALL CONDUCTORS AND RACEWAYS FOR ELECTRICAL EQUIPMENT.
 - G. FURNISHING, INSTALLING AND LAMPING OF ALL FLOODLIGHTS, FLOODLIGHT POLES AND LIGHTING FIXTURES AS SCHEDULED ON THE DRAWINGS AND IN ACCORDANCE WITH ARCHITECTURAL DETAILS. FURNISHING ALL LAMPS, FLUORESCENT, H.I.D., AND INCANDESCENT.

H. CONNECTING OF ALL AIR CONDITIONING, HEATING, PUMPING, VENTILATION AND EXHAUST FAN CONTROLS AS SPECIFICALLY CALLED FOR ON THE DRAWINGS AND SPECIFIED HEREIN.

- I. TEMPORARY AND EMERGENCY WIRING AS REQUIRED.
- J. FURNISHING AND INSTALLING ALL AUXILIARY AND COMMUNICATION SYSTEMS AS INDICATED ON THE DRAWINGS.
- K. FURNISHING AND INSTALLING ALL PANELS, METERS, ETC., AS SHOWN ON THE DRAWINGS.
- L. FURNISH AND INSTALL TRANSFORMERS FOR ALL EQUIPMENT WHETHER FURNISHED BY THIS CONTRACTOR, THE OWNER, OR OTHER PARTIES, WHERE SUCH EQUIPMENT HAS A VOLTAGE RATING UNSUITABLE TO THE SYSTEM IN WHICH IT IS APPLIED.
- M. SHOP DRAWINGS: SUBMIT, AT ONE TIME, SHOP AND DETAIL DRAWINGS, FACTORY CERTIFIED PRINTS AND MATERIALS LISTS FOR THE FOLLOWING ITEMS: PANELBOARDS, SAFETY SWITCHES WIRING DEVICES, LIGHTING FIXTURES. ALL SUBMITTALS MUST BE IDENTIFIED BY SPECIFICATION SECTION AND PARAGRAPH NUMBER AND/OR DRAWING NUMBER AND SCHEDULED NUMBER AND NAME ALONG WITH THE MANUFACTURER'S NAME.
- N. MANUALS AND CHARTS: FURNISH OWNER ALL OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, LITERATURE AND INFORMATION PERTAINING TO ALL EQUIPMENT.

16012 CODES AND STANDARDS

- .01 THE WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE EDITION OF THE NATIONAL ELECTRIC CODE AND 2015 IECC WITH STATE OF MASSACHUSETTS AMENDMENTS. NOTHING CONTAINED IN THESE SPECIFICATIONS OR DRAWINGS SHALL BE SO CONSTRUED AS TO CONFLICT WITH ANY LOCAL, MUNICIPAL, STATE, UTILITY COMPANY AND NATIONAL BOARD OF FIRE UNDERWRITERS REGULATIONS GOVERNING THE INSTALLATION OF THE WORK SPECIFIED HEREIN. ALL SUCH LAWS, ORDINANCES, AND REGULATIONS, WHERE THEY APPLY TO THIS WORK, ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. ALL SUCH REQUIREMENTS SHALL BE SATISFIED AT NO ADDITIONAL EXPENSE TO THE OWNER.

16020 ELECTRICAL SYSTEMS SCHEDULE

- .01 REFER TO THE DRAWINGS FOR AIR CONDITIONING WIRING DIAGRAM, PANEL BOARD SCHEDULE, RISER DIAGRAM, EQUIPMENT SCHEDULE, ELECTRICAL SYSTEMS REQUIREMENTS, ETC.

16030 TESTS

- .01 PROVIDE ALL NECESSARY INSTRUMENTS AND SPECIAL APPARATUS TO CONDUCT ANY TEST THAT MAY BE REQUIRED TO INSURE THE SYSTEM IS FREE OF ALL IMPROPER GROUNDS AND SHORT CIRCUITS AND THAT ALL FEEDERS ARE PROPERLY BALANCED. THE SYSTEM INSTALLED SHALL BE CHECKED FOR QUALITY, CAPACITY, AND COMPLETENESS TO CONFORM WITH THE FULL REQUIREMENTS AND INTENT OF THE DRAWINGS AND SPECIFICATIONS.

16010 BASIC METHODS AND MATERIALS

- .01 ELECTRICAL MATERIALS, APPLIANCES, EQUIPMENT DEVICES FOR WHICH THERE ARE UNDERWRITER'S LABORATORIES STANDARD REQUIREMENTS SHALL HAVE LABELS ATTACHED TO INDICATE COMPLIANCE WITH THOSE REQUIREMENTS. WHERE MATERIALS DO NOT BEAR SUCH A LABEL, CERTIFICATE OF COMPLIANCE SHALL BE FURNISHED.
- .02 ALL MATERIALS SHALL BE NEW AND OF FIRST QUALITY, FREE OF DEFECTS.
- .03 SUBMIT MANUFACTURER'S DATA AND CATALOG CUTS ON ALL ITEMS INCLUDED IN THIS SECTION PRIOR TO COMMENCING WORK.

16110 RACEWAYS

- .01 ALL CONDUCTORS SHALL BE CONTAINED IN RACEWAYS.
- .02 ALL CONDUIT RACEWAYS IN OR BELOW FLOOR SLAB AND RUN BELOW EXTERIOR FINISHED GRADE SHALL BE P.V.C. EXCEPT FOR ELLS AND RISERS WHICH SHALL BE RIGID GALVANIZED CONDUIT. CONDUIT RISERS SHALL RUN UP 6" ABOVE GROUND FLOOR SLAB WHEN CONCEALED AND 48" ABOVE GROUND FLOOR SLAB WHEN EXPOSED ON WALL. ALL RIGID GALVANIZED CONDUIT RUN BELOW SLAB OR FINISHED EXTERIOR GRADE SHALL BE PAINTED WITH TWO (2) COATS OF BITUMASTIC PAINT. THIS PAINTING SHALL BE APPLIED TO CONDUIT UP TO A POINT 2" ABOVE FLOOR SLAB. CONDUITS RUN BELOW FLOOR SLAB SHALL HAVE A MINIMUM COVER OF 12" AND THOSE RUN BELOW EXTERIOR FINISHED GRADE SHALL HAVE A MINIMUM COVER OF 24" IN NON-VEHICLE TRAFFIC AREAS AND 30" IN VEHICLE TRAFFIC AREAS. INSTALLATION OF P.V.C. CONDUIT IN TRENCHES SHALL HAVE 2" OF CLEAN SAND FILL ALL AROUND THEN BACKFILL TRENCH WITH FINE BACKFILL (NO ROCKS LARGER THAN 1/4" DIAMETER). CONTRACTOR SHALL FILL EXTERIOR TRENCHES TO WITHIN 6" OF TOP (FINISHED GRADE) THEN LAY A YELLOW RIBBON TAPE (USED IN INDUSTRY FOR THIS PURPOSE) ALONG TRENCH, THEN FINISH BACKFILL.
- .03 RIGID CONDUIT SHALL BE HOT-DIPPED GALVANIZED, INCLUDING THREADS. P.V.C. SHALL BE SCHEDULE 40.
- .04 FLEXIBLE METALLIC CONDUIT (GREENFIELD) SHALL BE USED FOR ALL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT, BUT IN LENGTHS NOT TO EXCEED LAST 18" OF RUN. P.V.C. JACKETED FLEXIBLE METAL CONDUIT SHALL BE USED IN ALL EXPOSED LOCATIONS.
- .05 ELECTRICAL METALLIC TUBING (EMT) MAY BE USED FOR ALL PURPOSES EXCEPT AS INDICATED ABOVE. ALL FITTINGS SHALL BE STEEL.
- .06 ALL RACEWAYS SHALL BE RUN CONCEALED IN FINISHED AREAS UNLESS NOTED.
- .07 WHERE EXPOSED RACEWAYS ARE ALLOWED OR INDICATED, THEY SHALL PRESENT A NEAT APPEARANCE, AND ALL RUNS BOTH EXPOSED AND CONCEALED SHALL BE PARALLELED OR PERPENDICULAR TO THE BUILDING LINES AND TO EACH OTHER WITHOUT INTERFERENCE WITH OTHER TRADES OR EQUIPMENT, SUPPORTS TO BE ONE (1) HOLE CAST STRAPS, KINDORF OR EQUAL SURFACE OR TRAPEZE HANGERS, SPLIT HANGERS WITH APPROPRIATE ROD HANGERS AND FITTINGS. NO PERFORATED STRAP IRON.
- .08 ALL RACEWAYS SHALL LAY FLAT TO RUNNING SURFACES AND SHALL BE OFFSET WHERE ENTERING BOXES, ETC.
- .09 DURING CONSTRUCTION, ALL OPEN ENDS OF CONDUIT SHALL BE KEPT PLUGGED OR CAPPED. USE T&B 1470 SERIES PLUGS.

16120 CONDUCTORS

- .01 ALL CONDUCTORS SHALL BE MINIMUM 98 % CONDUCTIVITY COPPER.
- .02 ALL WIRE AND CABLE SHALL HAVE INSULATION TYPE AS LISTED BELOW.
- .03 ALL BRANCH CIRCUIT AND FEEDER WIRING SHALL BE COLOR CODED THROUGHOUT. (SEE GENERAL NOTES ON DRAWINGS)
- .04 NO WIRE SMALLER THAN #12 SHALL BE USED EXCEPT FOR CONTROL WIRING.
- .05 BRANCH CIRCUIT RUNS LONGER THAN 100 FEET FROM PANEL TO FIRST OUTLET SHALL BE RUN WITH #10 WIRE.
- .06 ALL INSULATION SHALL BE RATED FOR 600V UNLESS OTHERWISE NOTED.
- .07 PARTICULAR CARE SHALL BE EXERCISED IN THE JOINING OF THE BRANCH CIRCUIT COMMON NEUTRALS.
- .08 CONDUCTOR TYPES:
 - A. COMBINATION TYPE "THNH/THNW" FOR GENERAL USE.
 - B. TYPE "THW" FOR USE IN ALL SIZES #6 AND ABOVE.
 - C. BRANCH CIRCUIT WIRE MAY BE RUN IN FIXTURE CHANNELS (FLUOR).
 - D. ALUMINUM CONDUCTORS NOT ALLOWED ON THIS PROJECT.
- .09 CONDUCTOR INSTALLATION SIZES:
 - A. SIZES SHOWN ON DRAWINGS ARE MINIMUM AND SHALL NOT BE DECREASED UNDER ANY CIRCUMSTANCES.
 - B. CHANGES IN EQUIPMENT FURNISHED BY OTHERS MAY REQUIRE CHANGES IN CONDUCTOR SIZES; IN SUCH CASE, THE CONTRACTOR SHALL NOTIFY THE OWNER.
 - C. BRANCH CIRCUITS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS. CONDUCTOR SIZES SHALL BE AS NOTED IN THE EQUIPMENT SCHEDULES AND/OR PANEL LISTINGS.
 - D. CONDUCTORS USED FOR WIRING OF MOTOR CONTROLS MAY BE #14 AWG UNLESS NOTED ON PLANS.
- .10 CONDUCTORS INSTALLATION JOINTS:
 - A. JOINTS: BRANCH CIRCUIT SPLICES SHALL UTILIZE (SCOTCH LOKS) WIRE NUTS.
 - B. NO JOINTS OR TAPS WILL BE ALLOWED IN FEEDER RUNS, EXCEPT IN JUNCTION OR PULL BOXES.
 - C. ALL FEEDER SPLICES AND TERMINATION SHALL BE MADE MECHANICALLY USING COMPRESSION TYPE SLEEVES OR LUGS AND CONNECTION TO PANELS AND SWITCHES. BURNDY OR T&B (HYPRSS) EQUIPMENT IS APPROVED – HYLINK – HYLUG.
 - D. INSULATION RESISTANCE OF JOINTS SHALL BE EQUAL TO OR GREATER THAN THAT OF THE CONDUCTORS JOINED – COVERING SHALL BE SCOTCH #33 TAPE OVER HALF-LAPPED COVERING OF RUBBER TAPE.
- .11 CONDUCTORS INSTALLATION METHODS:
 - A. NO CONDUCTORS SHALL BE INSTALLED UNTIL ALL ROUGH WORK BY OTHER TRADES IS IN PLACE AND ROOF DECKS ARE IN PLACE.
 - B. AT EACH OUTLET, A LOOP OF WIRE NOT LESS THAN 8 INCHES IN LENGTH SHALL BE LEFT FOR CONNECTION TO FIXTURES AND/OR OTHER DEVICES.
 - C. ALL CONDUCTORS SHALL BE CONTAINED IN RACEWAYS.
 - D. ALL RACEWAYS SHALL BE THOROUGHLY SWABBED OUT TO REMOVE MOISTURE BEFORE WIRE OR CABLES ARE DRAWN INTO PLACE.
- .12 UNDERSLAB SERVICE: ELECTRICAL CONDUIT PASSING BELOW THE "DINING ROOM" TO THE EXTERIOR SHALL BE SPACED OR PLACED LOW ENOUGH IN THE CONCRETE FLOOR SLAB TO AVOID DAMAGE BY CORE DRILLING FOR SEATING INSTALLATION. SEE INTERIOR DESIGN DRAWINGS.
- .13 ALL P.V.C. CONDUITS SHALL CONTAIN ALL GREEN EQUIPMENT GROUND WIRE AS PER N.E.C.

16130 OUTLET BOXES AND DEVICES

- .01 ALL WIRING DEVICES SHALL BE FURNISHED IN ACCORDANCE WITH DRAWINGS. SWITCH PLATES ARE TO BE PLASTIC WITH FINISH TO MATCH DEVICE EXCEPT STAINLESS STEEL SHALL BE USED IN RESTROOMS (WOMEN'S AND MEN'S), KITCHEN, & SIMILAR AREAS.
- .02 OUTLET BOXES SHALL BE GALVANIZED STAMPED STEEL, FOUR (4) INCHES SQUARE, 1–1/2 INCHES DEEP, STEEL CITY #52151 FOR GENERAL USE. LARGER BOXES SHALL BE USED WHERE REQUIRED TO PREVENT UNDOE CROWDING OF WIRES. CONDUIT TYPE GANGABLE BOXES STEEL CITY "Q" SHALL BE USED FOR MULTIPLE SWITCH ASSEMBLIES. SIZE AND DEPTH SHALL BE AS REQUIRED BY NATIONAL ELECTRIC CODE AND AS REQUIRED BY THE SPECIFIC DEVICES. BOX COVERS AND PLASTER RINGS ARE TO BE USED WHERE REQUIRED TO INSURE ASSEMBLY FINISHING FLUSH WITH SURFACE AREA.
 - A. WHERE EXPOSED WIRING IS DONE, CROUSE-HINDS FS BOXES WITH DS SERIES COVERS SHALL BE USED WHERE EXPOSED TO WEATHER, OTHERWISE FOUR (4) INCH BOXES AND FINISH COVERS.
 - B. SIZES SHOWN ABOVE ARE MINIMUM ONLY AND SHALL BE INCREASED WHERE NECESSARY DUE TO THE SIZE OF THE DEVICES TO BE CONTAINED.
 - C. SYMBOLS ON DRAWINGS INDICATE APPROXIMATE LOCATIONS ONLY UNLESS EXACT LOCATIONS ARE SPECIFIED ON THE PLANS. VERIFY LOCATIONS WITH ARCHITECTURAL DETAILS.
 - D. PROPERLY CENTER OUTLETS IN PANELING OR OTHER ARCHITECTURAL FEATURES AS INDICATED ON THE ARCHITECTURAL PLANS.
 - E. CLEAR TRIM AND CORNERS BY A MINIMUM OF FOUR (4) INCHES WHERE POSSIBLE.
 - F. MOUNT ALL BOXES SO THAT COVERS AND PLATES WILL MOUNT FLUSH WITH THE WALLS AND CEILING FINISHED PANELS.
 - G. FURNISH AND INSTALL PLASTER RINGS WHERE REQUIRED. FURNISH SURFACE COVERS, FOR EXPOSED WORK.
 - H. ALL FIXTURE OUTLETS SHALL BE EQUIPPED WITH "NO-BOLT" TYPE OF FIXTURE STUDS OF SUFFICIENT SIZE TO SUPPORT THE FIXTURE AND/OR DEVICE LOADS.
 - I. FIXTURE HANGING SYSTEMS TO BE ALL METALLIC.
 - J. CLOSE ALL OUTLETS DURING THE COURSE OF ROUGH CONSTRUCTION, CONCRETING AND PLASTERING WITH KRAFT PAPER, EXCELSIOR OR SLIP-ON BLANK METAL PLATES. THE USE OF NEWSPAPER IS NOT PERMISSIBLE FOR THIS PURPOSE.
 - K. HEIGHTS OF OUTLETS: UNLESS SPECIFICALLY NOTED OTHERWISE, ALL WALL OUTLETS SHALL BE MOUNTED AT THE FOLLOWING HEIGHTS, MEASURED FROM THE FINISHED FLOOR TO THE CENTER OF THE OUTLET BOX: SWITCHES–48 INCHES; RECEPTACLES–18 INCHES; TELEPHONE OUTLETS–12 INCHES. THE DIMENSIONS GIVEN ABOVE ARE TO BE USED TO COVER THE USUAL INSTALLATION DETAILS OF THE OUTLETS INVOLVED. HOWEVER, THE CONTRACTOR IS TO REFER TO ARCHITECTURAL AND EQUIPMENT DETAILS FOR THE EXACT LOCATION OF ALL OUTLETS BEFORE INSTALLATION OF SAME. MEASUREMENTS ON THE DRAWINGS, OWNER'S INSTRUCTIONS AND DETAIL MEASUREMENTS TAKE PRECEDENCE.

L. ALL WIRING DEVICES TO BE SPECIFICATION GRADE.

N. PROVIDE GASKETS ON W.P. COVERS AND BLANK PLATES.

16134 PANELBOARDS AND MAIN DISTRIBUTION

- .01 PANEL CABINETS:
 - A. CABINETS SHALL BE CONSTRUCTED OF ZINC COATED SHEET STEEL IN ACCORDANCE WITH UL AND NEMA STANDARDS FOR CABINETS, BOXES AND ASSEMBLY.
 - B. A DIRECTORY HOLDER WITH GLASS COVER AND METAL FRAME SHALL BE FURNISHED ON THE INSIDE OF EACH DOOR. PANEL DIRECTORIES SHALL BE TYPED, HOLDER AND FRAME SHALL BE OF SUITABLE SIZE TO PROPERLY LIST CIRCUIT DESIGNATIONS. PROVIDE FLUSH, STAINLESS STEEL LOCK IN DOOR – DEAD FRONT PANEL COVERING BUS & CIRCUIT BREAKER ASSEMBLY TO BE ONE (1) PIECE.
 - C. PANELS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS.
- .02 PANEL BOARDS AND CIRCUIT BREAKERS:
 - A. INDIVIDUAL CIRCUIT BREAKERS SHALL BE CALIBRATED AT THE FACTORY, SEALED TO PREVENT TAMPERING, SIZE AND FRAME AS INDICATED ON THE DRAWINGS.
 - B. MULTI-POLED BREAKERS SHALL BE OF THE COMMON TRIP TYPE, SIZE AND FRAME AS INDICATED ON THE DRAWINGS.
 - C. PROVIDE SHUNT TRIP ON MAIN CIRCUIT BREAKER WHERE REQUIRED BY LOCAL CODE.
 - D. ACCESSORIES SHALL BE FURNISHED AS INDICATED.
 - E. ALL BUSES SHALL BE AS PER MANUFACTURER'S STANDARD.
 - F. NEUTRAL BAR SHALL BE MOUNTED OPPOSITE THE MAIN LUGS AND SHALL HAVE NUMBERED TERMINALS FOR CONNECTION.
 - G. PROVIDE GROUND BUS AS CALLED FOR ON DRAWINGS.
- .03 SAFETY SWITCHES:
 - A. SAFETY SWITCHES SHALL BE TYPE HD, FUSIBLE OR NON-FUSIBLE AS INDICATED ON THE DRAWINGS, IN THE SIZES SHOWN. ENCLOSURES SHALL CONFORM TO LOCATION. (NEMA 1 INTERIOR, NEMA 3R EXTERIOR).
 - B. ALL SWITCHES SHALL BE FURNISHED WITH THE NECESSARY NUMBER OF POLES.
 - C. SWITCHES SHALL BE INSTALLED WHERE REQUIRED WHETHER SPECIFICALLY CALLED FOR OR IMPLIED BY LOCATION.
 - D. WEATHERPROOF SAFETY SWITCHES MAY BE NEMA 3R EXTERIOR.
 - E. ACCEPTABLE MANUFACTURERS ARE: SQUARE "D", G.E., WESTINGHOUSE, AND CUTLER-HAMMER.
- .04 MARKING AND IDENTIFICATION:
 - A. ALL SWITCHES, PANELBOARDS, CONTROLLERS, CONTROL PANELS, TIME SWITCHES, CONTACTORS, TELEPHONE AND COMMUNICATION CABINETS SHALL BE CLEARLY AND PERMANENTLY LABELED IN A NEAT, ORDERLY AND SYSTEMATIC MANNER.
 - B. IDENTIFICATION SHALL CLEARLY DESIGNATE DEVICES AND EQUIPMENT AS TO USAGE.
 - C. PANELBOARDS AND CABINETS SHALL BE MARKED IN THE SAME DESIGNATION AS ON THE DRAWINGS USING WHITE LETTERS ON BLACK PLATES, SCREWED TO DOORS OR COVERS.
 - D. CONDUCTORS IN MULTIPLE CONDUCTOR RACEWAYS, GUTTERS, JUNCTION OR PULL BOXES, CABINETS AND SIMILAR LOCATIONS SHALL BE CLEARLY AND PERMANENTLY IDENTIFIED AS TO ELECTRICAL CHARACTERISTICS, SYSTEM DESIGNATION, SOURCE AND DESTINATION.
 - E. CONDUCTORS SHALL BE MARKED WITH PREPRINTED ADHESIVE MARKERS AS MANUFACTURED BY W.H. BRADY CO., OR THOMAS & BETTS.
 - F. WHERE PREPRINTED MARKERS ARE NOT AVAILABLE WITH THE PROPER DESIGNATION, 1–1/4 INCH DIAMETER PUNCHED BRASS DISCS SHALL BE USED.

16150 MOTORS AND CONTROLS

- .01 WIRE TO AND CONNECT ALL ELECTRICALLY OPERATED EQUIPMENT.
- .02 VERIFY PROPER ROTATION OF ALL ROTATING EQUIPMENT.

16190 SUPPORTING DEVICES

- .01 REFER TO 16110.09 FOR EXPOSED RACEWAYS. CONCEALED RACEWAYS SHALL BE SUPPORTED USING SAME METHODS AS REQUIRED FOR EXPOSED RACEWAYS, EXCEPT THAT BRANCH CIRCUIT EMT IN CONCEALED LOCATIONS MAY BE SUPPORTED FROM BUILDING STRUCTURAL ELEMENTS WITH CADDY TYPE FITTINGS MANUFACTURED BY ERICO PRODUCTS CO., INC.
- .02 OUTLET BOXES SHALL BE SUPPORTED TO BUILDING STRUCTURE USING THREADED LEAD ANCHORS AND MACHINE BOLTS, TOGGLE BOLTS, WOOD OR SHEET METAL SCREWS, IF PLACED DIRECTLY ON WOOD OR METAL SURFACE. TWO (2) ANCHORS ARE REQUIRED FOR EACH BOX. WHEN BOXES ARE LOCATED BETWEEN STRUCTURAL SUPPORTS, USE CADDY BOX SUPPORTS.
- .03 ALL SUPPORTS, ANCHORS, BOLTS AND HARDWARE SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INFORMATION FOR THE SIZE AND WEIGHT OF THE SUPPORTED OBJECTS.

16450 GROUNDING

- .01 REFER TO ELECTRICAL DRAWINGS AND DIAGRAMS FOR GROUNDING CONNECTIONS.
- .02 THE CONDUIT SYSTEM AND THE NEUTRAL CONDUCTORS SHALL BE GROUNDED. FOLLOW REQUIREMENTS OF THE NATIONAL ELECTRIC CODE – LATEST EDITION. NEUTRALS OF ALL TRANSFORMER SECONDARIES SHALL BE GROUNDED TO MINIMUM ONE (1) INCH COLD WATER PIPE.
- .03 THE GROUND CONNECTION OF THE CONDUIT SYSTEM AND THE NEUTRAL CONDUCTORS SHALL BE MADE AT THE MAIN SERVICE PANELBOARD GROUND BUS.
- .04 WHERE THREE (3) PHASE THREE (3) WIRE FEEDERS ARE EXTENDED TO UTILIZATION EQUIPMENT AND APPARATUS, A BONDING CONDUCTOR OF ADEQUATE SIZE, GREEN COLOR, SHALL BE USED TO GROUND THE EQUIPMENT FRAME. THE CONDUCTOR SHALL BE INSTALLED FROM GROUND BUS TO EQUIPMENT FRAME IN ALL CIRCUIT RACKETS.
- .05 SEE GENERAL NOTES ON DRAWINGS.

16480 FEEDER CIRCUITS

- .01 PROVIDE FEEDERS AS INDICATED ON THE DRAWINGS AND IN SCHEDULES.

16485 BRANCH CIRCUITS

- .01 PROVIDE ALL WIRING AND CONNECTIONS TO OUTLETS AND FIXTURES AS INDICATED ON DRAWINGS AND IN SCHEDULES.

16500 LIGHTING – INTERIOR

- .01 FURNISH AND INSTALL ALL LIGHTING FIXTURES CALLED FOR BY THE LIGHTING SCHEDULE ON THE SITE. EXTERIOR ELECTRICAL AND INTERIOR ELECTRICAL DESIGN DRAWINGS.
- .02 EACH FIXTURE SHALL BE EQUIPPED WITH ANY REQUIRED MOUNTING FRAMES, HARDWARE AND ACCESSORY INSTALLATION ITEMS. FIXTURE MOUNTING FRAMES SHALL BE COMPATIBLE WITH CEILING CONSTRUCTION.
- .03 EACH FIXTURE SHALL BE LAMPED WITH NEW LAMPS OF TYPE AND WATTAGE INDICATED ON THE SCHEDULE.

16510 INTERIOR LIGHTING FIXTURES

- .01 INSTALL AS INDICATED ON LIGHTING AND REFLECTED CEILING PLANS, DIMENSIONAL REFERENCE POINTS AND TO ARCHITECTURAL DETAILS AND ELEVATIONS.
- .02 ALL INTERIOR FIXTURES (WHERE APPLICABLE) SHALL HAVE 100 % VIRGIN ACRYLIC PRISMATIC DIFFUSERS. POLYSTYRENE OR VINYL WILL NOT BE ACCEPTABLE.
- .03 SEE LIGHTING FIXTURE SCHEDULE AND NOTES ON ELECTRICAL DRAWINGS.

16600 SPECIAL SYSTEMS – COMPUTER (P.O.S. SYSTEM)

- .01 PROVIDE POWER WIRING AND OUTLETS FOR COMPUTER SYSTEM AS INDICATED ON THE DRAWINGS. COMPUTER CABLE INSTALLATION SHALL BE AS DIRECTED BY OWNER/TENANT.

16700 SOUND SYSTEMS

- .01 RACEWAYS, BACKBOARDS, OUTLET BOXES SHALL BE AS CALLED FOR ON DRAWINGS.
- .02 PROVIDE NYLON PULLCORD IN ALL EMPTY RACEWAYS AND IDENTIFY PULLCORD ENDS.
- .03 INTERIOR INSTRUMENTS AND WIRING BY OWNER CHOSEN COMMUNICATIONS CONTRACTOR.
- .04 TELEPHONE SERVICE WIRING BY LOCAL TELEPHONE UTILITY.
- .05 WHEN SHOWN ON DRAWINGS, THE CONTRACTOR SHALL PROVIDE AND INSTALL A 12" X 12" X 4" RECESSED TELEPHONE CABINET.
- .06 PROVIDE BASIC MATERIALS CALLED FOR IN SECTION 16100.

16900 CONTROLS AND INSTRUMENTATION

- .01 CONTROL WIRING DIAGRAMS ARE INDICATED ON DRAWINGS AND FURNISHED WITH EQUIPMENT. CONTRACTOR SHALL COORDINATE ALL WIRING WITH THESE DRAWINGS AND MANUFACTURER.
- .02 ANY DISCREPANCY BETWEEN SYSTEM ELECTRICAL CHARACTERISTICS AND EQUIPMENT REQUIREMENTS ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REP. FOR DECISION.

GENERAL NOTES:

- PROVIDE AND PAY FOR ALL PERMITS AND INSPECTION FEES AS REQUIRED.
- FURNISH ALL LABOR AND MATERIAL TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS. RECEPTACLES AND SWITCHES SHALL BE LEVITON OR AN APPROVED EQUAL. ALL WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES.
- GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW LIGHTING FIXTURES UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- PROVIDE NEW EXHAUST FANS AS SHOWN ON THE DRAWINGS.

TELEPHONE AND CABLE TELEVISION:

- TENANT SHALL CONTRACT SEPARATELY WITH A TELEPHONE COMPANY. NUMBER AND LOCATION OF NEW TELEPHONE AND TV JACKS TO BE DETERMINED BY TENANT.
- THE GENERAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE TELEPHONE CONTRACTOR.
- FIRE ALARM GENERAL SCOPE IS INCLUDED IN THESE PLANS. THE LANDLORD'S FIRE ALARM SUB CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIRE ALARM SYSTEM PERMITTING REQUIREMENTS.

LIGHTING CONTROL AND TESTING:

- LIGHTING SYSTEM FUNCTIONAL TESTING SHALL COMPLY WITH C303.3, C408.2.5, C408.3 IECC 2015. PROVIDE EVIDENCE THAT THE LIGHTING CONTROL IS PER C408.3.1.1 OCCUPANCY SENSOR CONTROLS. CONTRACTOR SHALL PROVIDE EVIDENCE THAT THE LIGHTING SYSTEM HAS BEEN CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION TO THE ENGINEERS REPRESENTATIVE.

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ELECTRICAL SPECIFICATIONS

E-1.1

JOB NO. 19022

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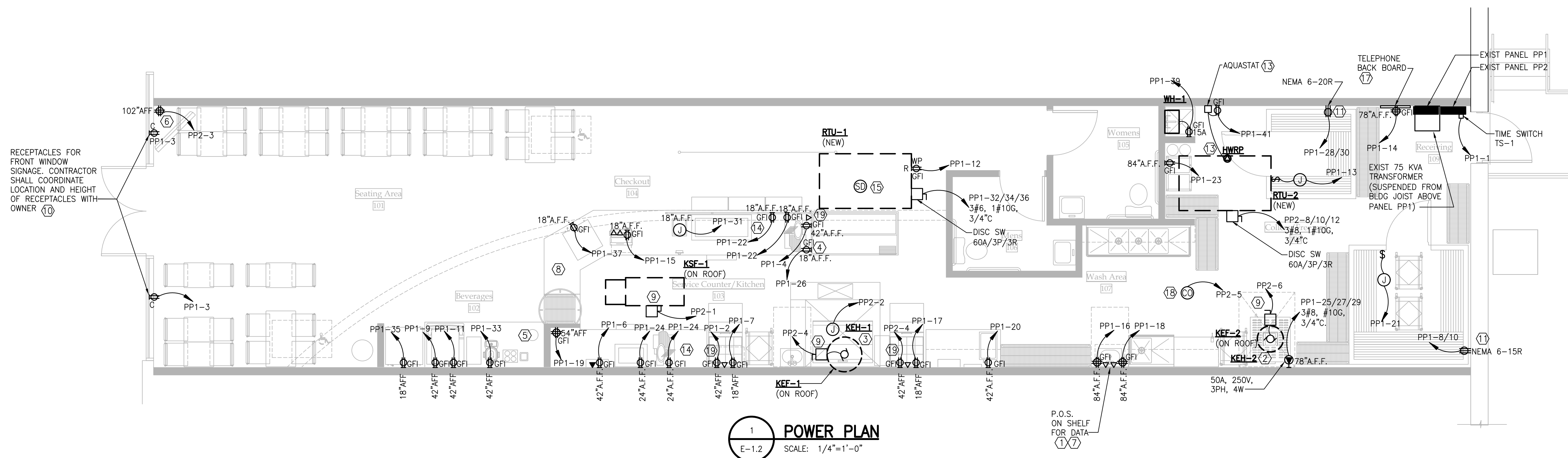
KEY NOTES

- 1 PROVIDE 1" C. WITH PULL WIRE FROM INTERNET MODEM, CABLE AND PHONE SHELF TO P.O.S.
- 2 CIRCUIT VIA MOTOR RATED SWITCH PROVIDED WITH HOOD.
- 3 KEH-1 SHALL BE CONNECTED TO THE BUILDING FIRE ALARM PANEL PROVIDED BY LANDLORD THRU A MICRO SWITCH PROVIDED BY THE HOOD MANUFACTURER.
- 4 MOUNT OUTLET FOR THE MEATCASE ON THE LOW WALL BELOW SLICER.
- 5 SERVICE AREA AND DRINK STATION RECEPTACLE HEIGHT SHALL BE MEASURED FROM SUBFLOOR TO BOTTOM OF BOX.
- 6 PROVIDE A 2"x4" JUNCTION BOX WITH CONDUIT AND PULL STRING ADJACENT TO THE TV OUTLETS. THE LOW VOLTAGE CONTRACTOR SHALL PROVIDE CABLE & CONNECT.
- 7 RECEPTACLES AT P.O.S SHALL BE SURGE PROTECTED. PROVIDE SURGE PROTECTION.
- 8 RUN CONDUIT TO FRONT COUNTER THROUGH LOW WALL NEXT TO BEVERAGE COUNTER.
- 9 ELECTRICAL DISCONNECT PROVIDED WITH EQUIPMENT, 30A/1P/3R.
- 10 SHOW WINDOW RECEPTACLES SHALL BE SPACED AT NOT MORE THAN 12"-0" O.C. AND INSTALLED WITHIN 18" ABOVE TOP OF WINDOWS PER NEC 210.62.
- 11 FIELD COORDINATE EXACT LOCATION OF RECEPTACLE. FIELD COORDINATE EXACT ELECTRICAL REQUIREMENTS.
- 12 NOT USED.
- 13 INTERLOCK HWRP WITH AQUASTAT. RUN 2#12, 1#12G IN 3/4" C. BETWEEN HWRP AND AQUASTAT.
- 14 PROVIDE FOR RTU-1 AND RTU-2 DISCONNECT 30A/3P/3R. RUN CABLE AND CONDUIT 3 #12, 1 #12G IN 3/4" C.
- 15 PROVIDE SMOKE DETECTOR FOR RTU-1. SMOKE DETECTOR WHEN ENERGIZED SHALL SHUT DOWN THE UNIT.
- 16 CIRCUIT BREAKERS CONNECTED TO RECEPTACLES UNDER THE HOOD SHALL HAVE SHUNT TRIP PROTECTION.
- 17 EXTEND CONDUIT AND CABLE FOR TELEPHONE SERVICE TO TENANT TELEPHONE BACKBOARD IF REQUIRED.
- 18 PROVIDE CARBON MONOXIDE DETECTORS AS PER 19NYCRR SECTION 1228. PROVIDE CARBON MONOXIDE DETECTORS THAT CAN BE HARD WIRED AND HAS BATTERY BACK-UP AND IS UL2034 LISTED. CO ALARM SIGNALS SHALL BE DISTINCT FROM OTHER SIGNALS AND NFPA 720 COMPLIANT. PROVIDE CO DETECTORS BY HONEYWELL OR APPROVED EQUIVALENT MANUFACTURER.
- 19 FIELD VERIFY LOCATION FOR FUTURE PRINTER RECEPTACLES.

GENERAL NOTES

1. BRANCH CIRCUIT WIRING SHALL BE AS FOLLOWS:
 - A. LIGHTING AND POWER NETWORKS: (120/208V, 3Ø, 4W)
 - 1) 100 FEET OR LESS:
 - PHASE - 3#12 AWG
 - NEUTRAL - 1#12 AWG
 - GROUND - 1#12 AWG
 - 2) GREATER THAN 100 FEET:
 - INCREASE ALL CONDUCTORS BY ONE WIRE GAUGE SIZE.
 - 3) TWO TELEPHONE/DATA CABLE MAXIMUM PER CONDUIT.
2. PROVIDE SINGLE GANG JUNCTION BOX FOR EACH TELEPHONE AND /OR DATA OUTLET WITH 3/4" C. STUBBED-UP TO 6" WALL ABOVE PARTITION OR LAY-IN CEILING. PROVIDE BLANK COVERPLATE ON EACH OUTLET.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4", UNLESS OTHERWISE NOTED OR INDICATED.
4. VERIFY ALL LIGHTING FIXTURE TYPES, LOCATIONS AND NUMBER WITH OWNER AND ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
5. PROVIDE 3/4" C FROM P.O.S. TO CASH REGISTER FOR EXTENSION OF TWO (2) CAT 5 DATA LINES.
6. ALL 120 VOLT, SINGLE PHASE, 15 AND 20 AMP RECEPTACLES INSTALLED OUTDOORS, IN BATHROOMS, KITCHENS AND ON ROOFTOP AREAS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION.
7. EXPOSED CONDUITS WITHIN FOOD PREP AREA MUST HAVE SMOOTH SURFACE FOR CLEANING PER HEALTH DEPARTMENT REQUIREMENTS AND SHALL BE STANDARD METAL CONDUITS.
8. CONDUITS BELOW SLAB SHALL BE PVC CONDUITS. ENCLOSED CONDUITS CAN EITHER BE METAL CONDUITS OR FLEXIBLE CONDUITS. ANY EXPOSED CONDUITS SHALL BE METAL CONDUITS ONLY.
9. MAIN FEEDERS FROM SERVICE DISCONNECT TO PANEL AND FROM MAIN PANEL TO SUB PANEL SHALL BE STANDARD METAL CONDUIT.
10. THE LOW VOLTAGE CONTRACTOR SHALL PROVIDE REQUIRED LOW VOLTAGE WIRING FOR SPEAKERS, RECEIVERS, INTERNET AT POS ON SHELF AND VOICE.

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—	CONDUIT CONCEALED ABOVE CEILING OR IN WALL WHENEVER POSSIBLE.	S3	THREE WAY SWITCH
—	CONDUIT CONCEALED IN OR BELOW FLOOR.	⊕C	20A/125V/1PH/3W, NEMA 5-20R, DUPLEX RECEPTACLE C - FLUSH WITH CEILING. NO DESIGNATION - FLUSH WALL
A-2	HOME RUN TO PANELBOARD SHOWING CIRCUIT DESIGNATION. INDICATING PANEL AND CIRCUIT BREAKER NUMBER WITHIN THE PANEL... BREAKER LOCATIONS MAY BE REARRANGED TO PERMIT USE OF COMMON NEUTRAL CONDUCTOR.	⊕IG	20A/125V/1PH/3W, NEMA 5-20R, ISOLATED GROUNDING TYPE DUPLEX RECEPTACLE
⊕	ELECTRIC MOTOR CONNECTION.	⊕R	30A/125V/1PH/3W, NEMA 5-30R, RECEPTACLE
+ 44"	MOUNTING HEIGHT DESIGNATION IN INCHES ABOVE FINISHED FLOOR TO CENTERLINE... WHEN INDICATED ON DRAWINGS SUPERSEDES STANDARD MOUNTING HEIGHT IN LEGEND.	⊕GFI	20A/125V/1PH/3W, NEMA 5-20R, DUPLEX GFCI RECEPTACLE @ 18" AFF. UNLESS OTHERWISE NOTED.
A.F.F.	ABOVE FINISHED FLOOR	⊕	QUAD OUTLET (DOUBLE DUPLEX, 2-GANG ASSEMBLY)
A.B.S.	ABOVE BACKSPASH	⊕	208V/1PH/20A, SEE INDIVIDUAL EQUIPMENT SPEC. SHEETS FOR PLUG TYPE.
□	NON-FUSED DISCONNECT SWITCH	⊕	240V/3PH, RATING AS NOTED. SEE INDIVIDUAL EQUIPMENT SPEC. SHEETS FOR PLUG TYPE.
F	FUSED DISCONNECT SWITCH	▽	TELEPHONE OUTLET.
⊕	JUNCTION BOX.	▽	DATA OUTLET.
—	ELECTRIC PANELBOARD.	⊕	MOTOR RATED SWITCH
—	EQUIPMENT BACKBOARD.	#	NUMBER BESIDE DEVICE INDICATES CIRCUIT NUMBER
\$	SINGLE POLE SWITCH	F	FIRE ALARM PULL STATION
F	FIRE ALARM HORN/STROBE	FS	FLOW SWITCH
F	FIRE ALARM STROBE	TS	TAMPER SWITCH
⊕	SMOKE DETECTOR	⊕	CARBON MONOXIDE DETECTOR



1 POWER PLAN
E-1.2 SCALE: 1/4"=1'-0"

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ELECTRICAL POWER PLAN
E-1.2
JOB NO. 19022

DATE: OCTOBER 14, 2019 DOCUMENT STATUS: PERMIT SET BID SET FIELD REPORT FINAL FOR CONSTRUCTION

PACKAGED ROOFTOP AIR CONDITIONING UNITS													
MARK	NOM TONS	EER/IEER (SEER)	SUPPLY FAN			GAS HEAT		ELEC		WEIGHT (LBS)	BASIS OF DESIGN		REMARKS
			CFM	ESP (W.G.)	OA CFM EACH	INPUT MBH	EFF%	V/PH	DISC BY		MANUFACTURER	MODEL	
RTU-1	6	EXIST	2,400	0.8	340	150	82	280/3	EXIST	1,300	CARRIER	48TCFA07	(1)(2)(3)(4)
RTU-2	5	EXIST	2,000	0.8	290	123	81	280/3	EXIST	1,200	CARRIER	48TCFA06	(1)(2)(3)(4)

- SYSTEM IS EXISTING, CONTRACTOR SHALL FIELD VERIFY CHARACTERISTICS (MANUFACTURER, MODEL #, CAPACITY, AND UTILITY REQUIREMENTS) AND REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO DEMOLITION.
- 7-DAY PROGRAMMABLE, AUTOMATIC CHANGEVER THERMOSTAT WITH SETPOINT OVERLAP PROTECTION, 5°F DEADBAND, SETBACK CONTROL (55% HEAT, 85% COOL SETBACK) WITH 4 OCCUPIED/UNOCCUPIED EVENTS PER DAY, SYSTEM AUTO/HEAT/COOL/OFF CONTROL, AND 2-HOUR PROGRAM OVERRIDE. OPTIMUM START CONTROL; 24 HR BATTERY BACK-UP. PROVIDE REMOTE TEMPERATURE SENSOR WHERE SHOWN ON PLANS.
- 100% OA ECONOMIZER WITH CLASS I SEALS, ENTHALPY CONTROL, HIGH LIMIT SHUT-OFF, FAULT DETECTION AND DIAGNOSTICS, AND BAROMETRIC RELIEF.
- SMOKE DETECTOR IN RA TO SHUT DOWN UNIT UPON DETECTION OF SMOKE.

AIR BALANCE		
	OA CFM	EXH CFM
RTU-1,2	630	-
KEH-1	750	1,000
KEH-2	-	375
TOTAL	+1,380	-1,375

FINAL TEST AND BALANCE SHALL PROVIDE FOR SLIGHT OVERALL POSITIVE PRESSURE. RESTROOM EXHAUST FANS ARE CONSIDERED INCIDENTAL (INTERLOCKED WITH LIGHTS) AND ARE IGNORED.

CONTRACTOR FIELD VERIFICATION

THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY NOT REFLECT EXACT FIELD CONDITIONS OR CONSTRAINTS. WHILE REASONABLE EFFORTS HAVE BEEN MADE TO VERIFY THE EXISTING CONDITIONS, THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THE EXISTING CONDITIONS SHOWN ON THESE PLANS.

THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING THE EXACT LOCATION, MANUFACTURER, MODEL NUMBER, SERIAL NUMBER, AND UTILITY REQUIREMENTS FOR ALL HVAC EQUIPMENT SERVING THIS SPACE. ANY DISCREPANCIES BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR RESOLUTION PRIOR TO BID. ALL COSTS TO MODIFY THE INSTALLATION TO ACCOMMODATE FIELD CONDITIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

GENERAL NOTES:

- PROVIDE MINIMUM 10'-0" HORIZONTAL SEPARATION BETWEEN OA INTAKES AND TERMINATIONS OF ALL CONTAMINANT SOURCES (EXHAUST SYSTEMS, PLUMBING VENTS, OR GAS VENTS) WHERE POSSIBLE. CLEARANCE MAY BE REDUCED TO 5'-0" PROVIDED THE OA INTAKE IS NOT LESS THAN 2'-0" BELOW THE CONTAMINANT SOURCE IN ACCORDANCE WITH IMC. FIELD VERIFY LOCATIONS OF EXISTING OA AND EXH/VENT TERMINATIONS, INCLUDING THOSE OF ADJACENT TENANTS, AND ADJUST JERSEY MIKE'S SUBS' INSTALLATION AS REQUIRED TO COMPLY.
- THERMOSTATS IN KITCHEN AREAS SHALL BE MOUNTED MINIMUM 6" ABOVE BACKSPASH ELEVATION. THERMOSTATS IN DINING ROOM (NOT ADJUSTABLE BY THE PUBLIC) SHALL BE MOUNTED 84" AFF OR AS DIRECTED BY THE OWNER. COORDINATE LOCATION AND MOUNTING HEIGHT OF ALL OTHER THERMOSTATS WITH OWNER.

KEYED NOTES:

- KEF-1 DISCHARGE SHALL BE MIN. 40 INCHES ABOVE THE FLAT ROOF SURFACE, MINIMUM 10 FEET HORIZONTALLY FROM OR 3 FEET ABOVE ANY OA INTAKES (INCLUDING THOSE OF ADJACENT TENANTS/BUILDINGS - FIELD VERIFY). MINIMUM 10 FEET HORIZONTALLY FROM VERTICAL WALLS PROJECTING MORE THAN 40 INCHES ABOVE THE ROOF, AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- OA INTAKE SHALL BE MIN 10'-0" FROM KITCHEN HOOD EXHAUST, RESTROOM EXHAUST, GAS VENT (FLUE), OR PLUMBING VENT TERMINATION, INCLUDING THOSE OF ADJACENT TENANTS (CONTRACTOR TO FIELD VERIFY).
- VENT AND COMBUSTION AIR PIPING, TERMINATE WITH CONCENTRIC VENTING KIT - MATERIALS, SIZING AND INSTALLATION SHALL BE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- DIFFUSER SHALL BE ADJUSTABLE, DOUBLE DEFLECTION TYPE AS SCHEDULED-NO EXCEPTIONS. ADJUST REAR BLADES (PARALLEL TO LONG DIMENSION) FOR VERTICAL, DOWNWARD THROW. ADJUST FRONT BLADES (PARALLEL TO SHORT DIMENSION) 2-WAYS, EACH HALF OF BLADES AT 45° FROM VERTICAL. TEST KITCHEN HOOD PERFORMANCE WITH ALL SYSTEMS ON AND AFTER ALL AIR DEVICES ARE ADJUSTED AND BALANCED - ADJUST DIFFUSER THROWS IF REQUIRED TO AVOID INTERFERENCE WITH HOOD'S CAPTURE AND CONTAINMENT PERFORMANCE AND TO AVOID DISCHARGING AIR DIRECTLY ONTO THERMOSTATS.
- MANUAL PULL STATION SHALL BE LOCATED MINIMUM 10FT, MAXIMUM 20FT FROM RANGE HOOD ALONG THE PATH OF EGRESS. INSTALLATION SHALL BE PER IBC. COORDINATE FINAL LOCATION WITH OWNER AND AHJ.
- HOOD SYSTEM INSTALLATION AND PERFORMANCE SHALL BE TESTED AND CERTIFIED BY A NORTH CAROLINA PE OR AN APPROVED THIRD PARTY AGENT.
- KEF-2 DISCHARGE SHALL BE MIN. 30 INCHES ABOVE THE FLAT ROOF SURFACE, MINIMUM 3 FEET FROM ANY OA INTAKES OR BUILDING OPENINGS (INCLUDING THOSE OF ADJACENT TENANTS/BUILDINGS - FIELD VERIFY). MINIMUM 30 INCHES HORIZONTALLY FROM VERTICAL WALLS PROJECTING ABOVE THE ROOF, AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- PROVIDE SECTORIZING BAFFLE IN NECK OF DIFFUSER TO BLOCK AIRFLOW IN QUADRANT FACING HOOD.
- LOCATE UNIT MIN 10'-0" FROM EDGE OF ROOF.

FANS												
MARK	TYPE	SERVICE	CFM	RPM	MOTOR HP	WEIGHT LB	ELEC (60 HZ)		MAX SONES	BASIS OF DESIGN		REMARKS
							V/PH	DISC BY		MANUFACTURER	MODEL	
EF-1	INLINE-MTD	RESTROOMS	200	1550	1/30	35	120/1	MC	2.0	GREENHECK	SQ70-D-1/30	

- SYSTEM IS EXISTING, CONTRACTOR SHALL FIELD VERIFY CHARACTERISTICS (MANUFACTURER, MODEL #, CAPACITY, AND UTILITY REQUIREMENTS) AND REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO DEMOLITION.

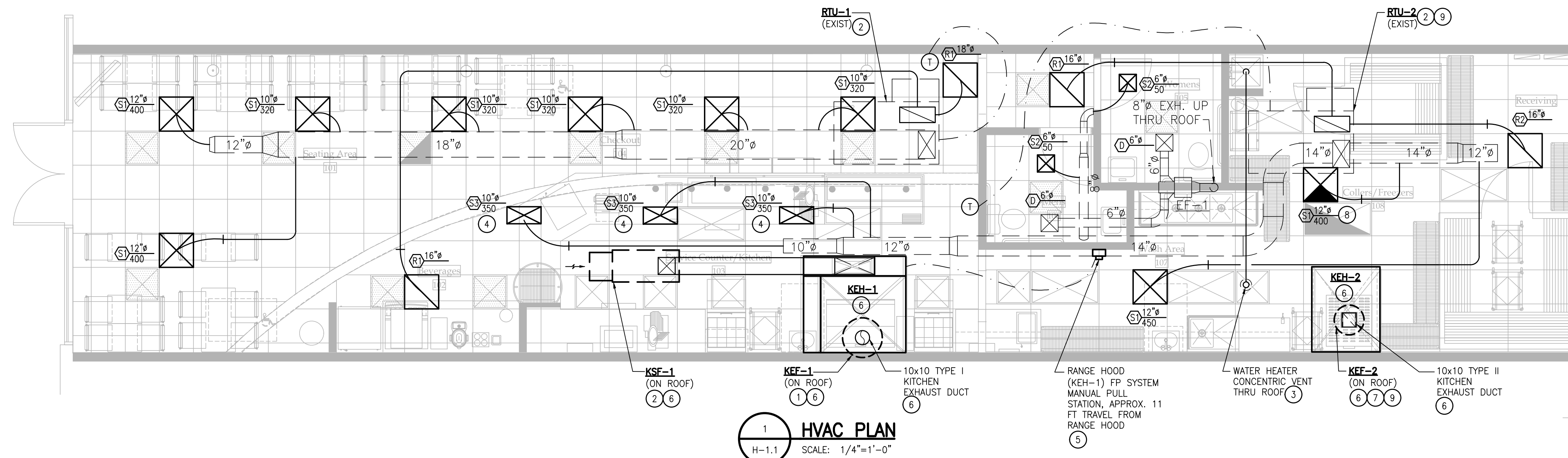
OUTDOOR AIR REQUIREMENTS (NYC MECH CODE)											
SPACE TYPE	AREA (Az)	PEOPLE-RELATED OA			AREA-RELATED OA		MIN BREATHING ZONE OA, Vb (Pz x Rp) + (Az x Ro)	SUB-TOTAL (Vb)	ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez)	MINIMUM ZONE OUTDOOR AIR REQUIRED (VoZ/Ez)	ACTUAL OUTDOOR AIR PROVIDED
		# OCC (Pz)	CFM/OCC (Rp)	CFM (Pz x Rp)	CFM/SF (Ra)	CFM (Az x Ra)					
DINING	651	32	7.5	240	0.18	117	357				
KITCHEN/PREP AREA	746	5	7.5	38	0.18	134	175				
RESTROOM/CORRIDOR	131	0	-	-	0.06	8	8				
							540				
							1.00				
							540				
							630				

DIFFUSERS, REGISTERS, AND GRILLES												
MARK	TYPE	MOUNTING	NECK DAMPER	MAX NC	MAX DP	SIZE		MAT'L	FINISH	BASIS		REMARKS
						NECK	FRAME			MFRG	MODEL	
S1	4-WAY LOUVERED DIFFUSER	LAY-IN	N	30	0.1"	PER PLANS	24x24	AL	(3)	TITUS	TMS	
S2	4-WAY LOUVERED DIFFUSER	SURFACE	Y	30	0.1"	PER PLANS	12x12	AL	(3)	TITUS	TDC	
S3	DBL-DEFLECTION REGISTER	LAY-IN	Y	30	0.1"	22x10	23.5x11.5	AL	(3)	TITUS	272FS	(1)(2)
R1	LOUVERED GRILLE	LAY-IN	N	30	0.05"	PER PLANS	24x24, UNO	AL	(3)	TITUS	50F	(2)
R2	FILTER LOUVERED GRILLE	LAY-IN	N	30	0.05"	20x20	24x24	AL	(3)	TITUS	50FF	(4)
D	EXHAUST GRILL	LAY-IN	N	20	0.05"	PER PLANS	12x12	ST	(3)	TITUS	350RL	

- INSTALL IN LAY-IN CEILING.
- PROVIDE 12" PLENUM WITH ROUND NECK FOR FLEX DUCT CONNECTION.
- AIR DEVICE COLOR SHALL MATCH COLOR OF CEILING SYSTEM IN WHICH INSTALLED. CONTRACTOR SHALL COORDINATE.
- LOUVERED GRILLE WITH REMOVABLE FACE/CORE, WITH FOUR QUARTER-TURN FASTENERS AND NO HINGE.

TESTING, ADJUSTING AND BALANCING

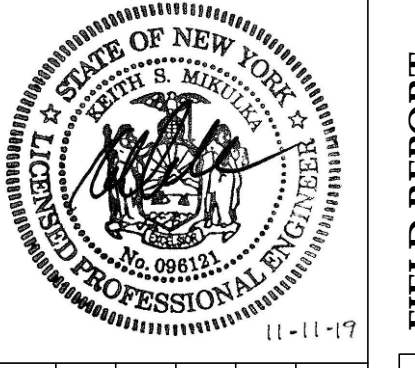
- PROVIDE CERTIFIED TESTING, ADJUSTING, AND BALANCING (TAB) REPORT FOR ALL MECHANICAL CONSTRUCTION SERVING AREAS UNDER THIS SCOPE OF WORK. TAB SHALL BE PERFORMED BY NEBB OR AEC CERTIFIED AGENT, USING PROCEDURES COMPLYING WITH CERTIFYING AUTHORITY. SUBMIT FINAL REPORT TO ENGINEER FOR REVIEW AND APPROVAL.
- REPORT SHALL INCLUDE NAME, CONTACT INFORMATION, AND PROOF OF CERTIFICATION FOR TAB AGENT.
- FINAL BALANCE ALL QUANTITIES TO WITHIN +/-5% OF DESIGN. ADJUST FAN SPEED TO LOWEST POSSIBLE.
- KITCHEN HOODS SHALL BE BALANCED BY TESTING AGENCY CERTIFIED BY HOOD MANUFACTURER.
- AT A MINIMUM, THE FOLLOWING SHALL BE CERTIFIED IN THE REPORT (DESIGN QUANTITIES AND FINAL, BALANCED QUANTITIES):
 - MANUFACTURER, MODEL #, AND SERIAL # OF ALL EXISTING AND NEW EQUIPMENT.
 - ELECTRICAL CHARACTERISTICS OF ALL EXISTING AND NEW EQUIPMENT.
 - AIR CONDITIONING SYSTEM PERFORMANCE: UNIT SUPPLY AIR FLOW, UNIT OUTSIDE AIR FLOW, FAN INLET AND DISCHARGE PRESSURES, UNIT INLET AND DISCHARGE PRESSURES, FAN SPEED AND AMP DRAW, COOLING AND HEATING COIL ENTERING AND LEAVING TEMPERATURES (DRY BULB AND WET BULB), OUTSIDE AIR TEMPERATURE (DRY BULB AND WET BULB).
 - KITCHEN EXHAUST SYSTEM PERFORMANCE: EXHAUST AIRFLOW, FAN INLET AND DISCHARGE PRESSURE, FAN SPEED AND AMP DRAW.
 - KITCHEN MAKE-UP AIR SYSTEM PERFORMANCE: AIRFLOW, FAN INLET AND DISCHARGE PRESSURE, HEAT EXCHANGER INLET AND DISCHARGE TEMPERATURES.
 - AIR DISTRIBUTION: AIRFLOWS AT EACH AIR DEVICE, CONFIRMATION OF DIRECTIONAL ADJUSTMENT OF SUPPLY DIFFUSER PATTERN CONTROLLERS WHERE NOTED ON PLANS.
 - DESCRIPTION OF ANY PROBLEMS NOTED DURING BALANCING.



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NO	REVISIONS DESCRIPTION	DATE

DRAWN BY: KI
CHECKED BY: KI

HVAC FLOOR PLAN
H-1.1
JOB NO. 19022

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DATE: OCTOBER 14, 2019 DOCUMENT STATUS: PERMIT SET BID SET FIELD REPORT FINAL FOR CONSTRUCTION

KEH-1 CANOPY GRIDDLE HOOD

HOOD INFORMATION

MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	WIDTH	HEIGHT	EXHAUST PLENUM RISER(S)	CFM	VEL.	S.P.	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	END TO END	ROW
5424	5' 0"	600 Deg.	1000	16"	16"	4"	10"	1000	1833	-0.363"	750	430 SS Where Exposed	ALONE

HOOD INFORMATION

FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM		HOOD HANGING HEIGHT	
TYPE	QTY.	HEIGHT	EFFICIENCY @ 7 MICRONS	TYPE	QTY.	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	SWITCHES	FIRE SYSTEM PIPING	HOOD HANGING HEIGHT
SS Baffle with Handles	3	16"	30%	L55 Series E26	3	NO	Right	12"x54"x24"	ANSUL R102	3.0	SC-11111FP	1 Light 1 Fan	1 Light 1 Fan	YES	478 LBS

HOOD OPTIONS

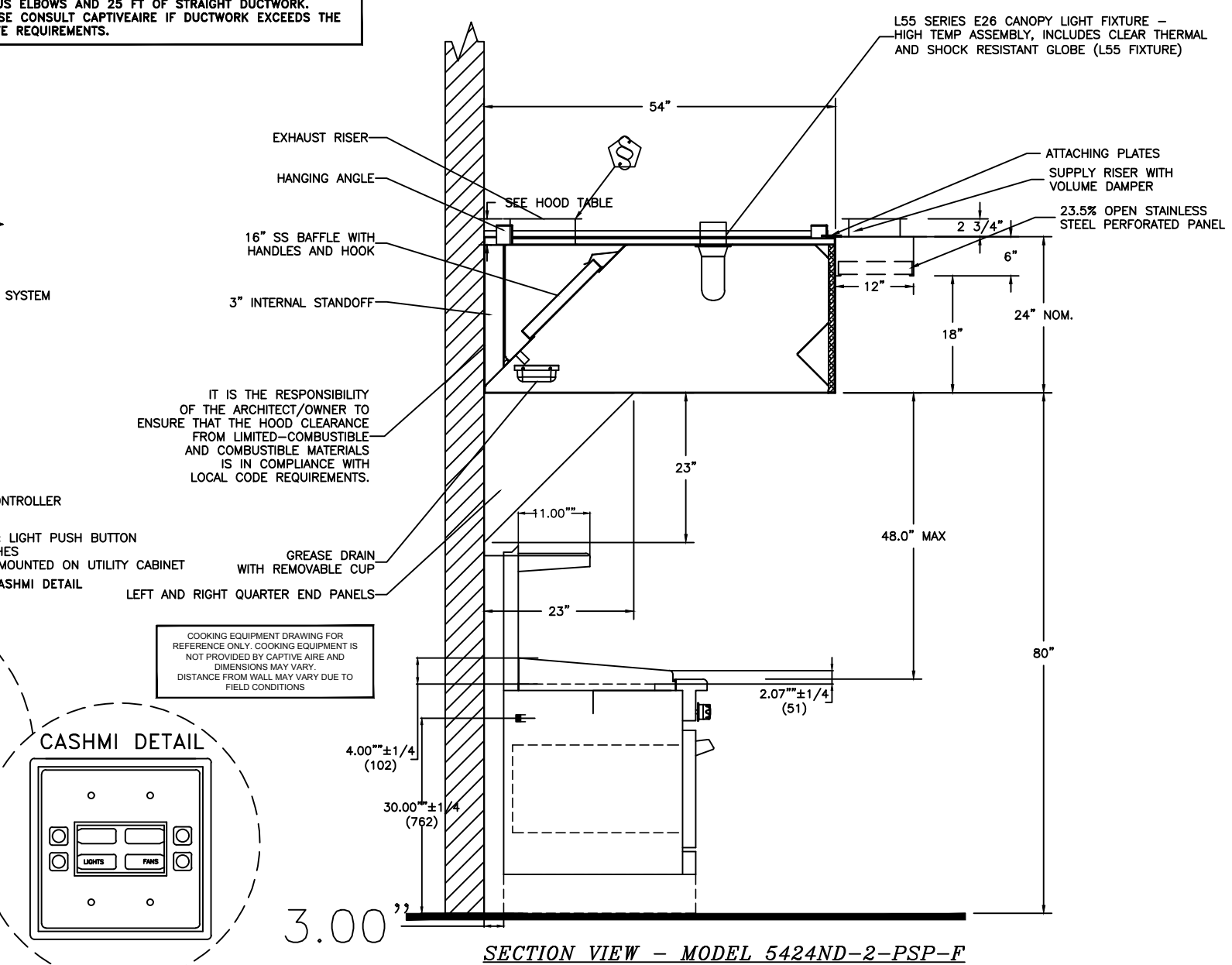
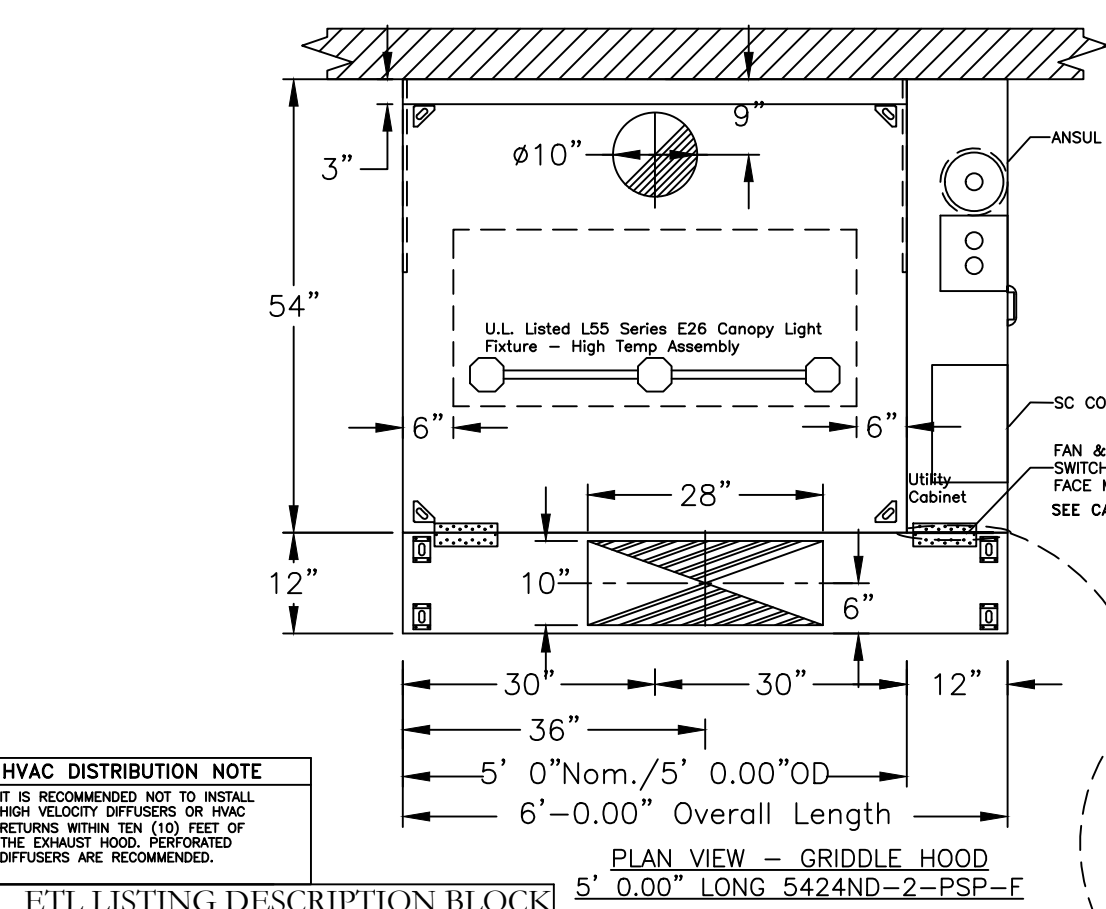
OPTION	DESCRIPTION
FIELD WRAPPER	18.00" High Front, Left, Right
BACKSPLASH	80.00" High X 72.00" Long 430 SS Vertical
LEFT QUARTER END PANEL	23" Top Width, 0" Bottom Width, 23" High 430 SS
RIGHT QUARTER END PANEL	23" Top Width, 0" Bottom Width, 23" High 430 SS
RISER SENSOR INSTALL 6IN PLEN	

NOTE:

EXHAUST FAN IS SIZED FOR A MAXIMUM OF (3) 90 DEGREE RADIUS ELBOWS AND 25 FT OF STRAIGHT DUCTWORK. PLEASE CONSULT CAPTIVEAIR IF DUCTWORK EXCEEDS THE ABOVE REQUIREMENTS.

PERFORATED SUPPLY PLENUM(S)

POS.	LENGTH	WIDTH	HEIGHT	TYPE	CFM	S.P.
Front	72"	12"	6"	MUA	10"	28"

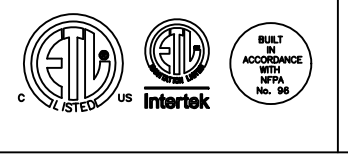
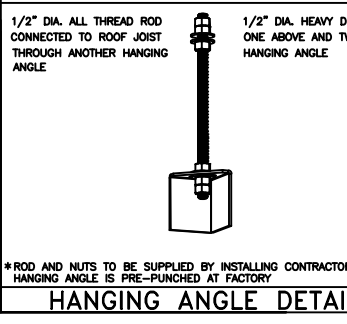


HVAC DISTRIBUTION NOTE

IT IS RECOMMENDED NOT TO MIX HIGH VELOCITY DIFFUSERS OR TRAC REVERSING WITH THE (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

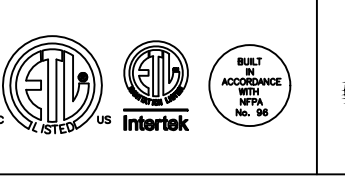
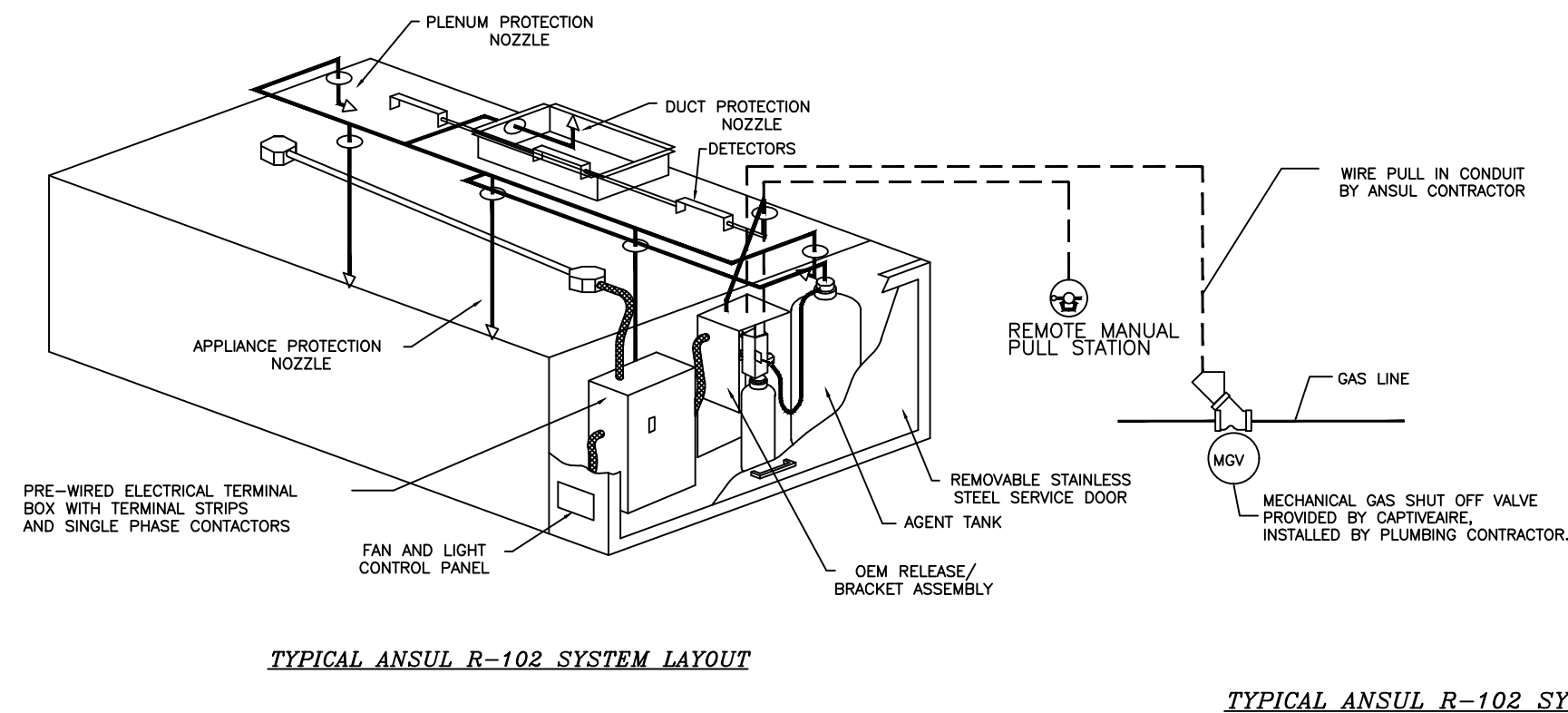
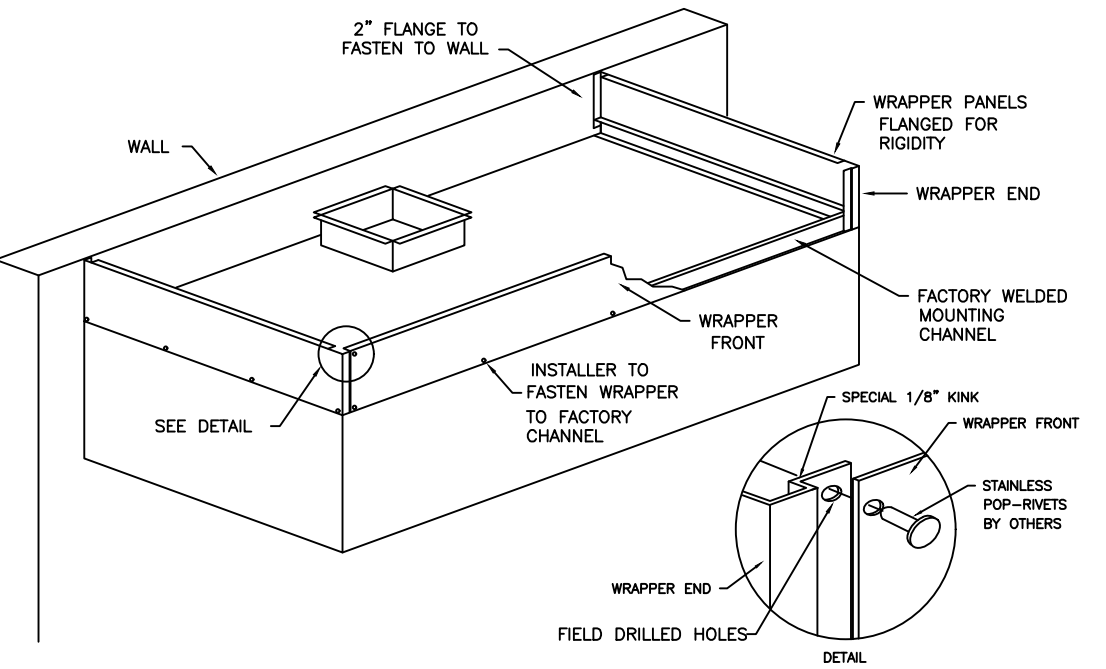
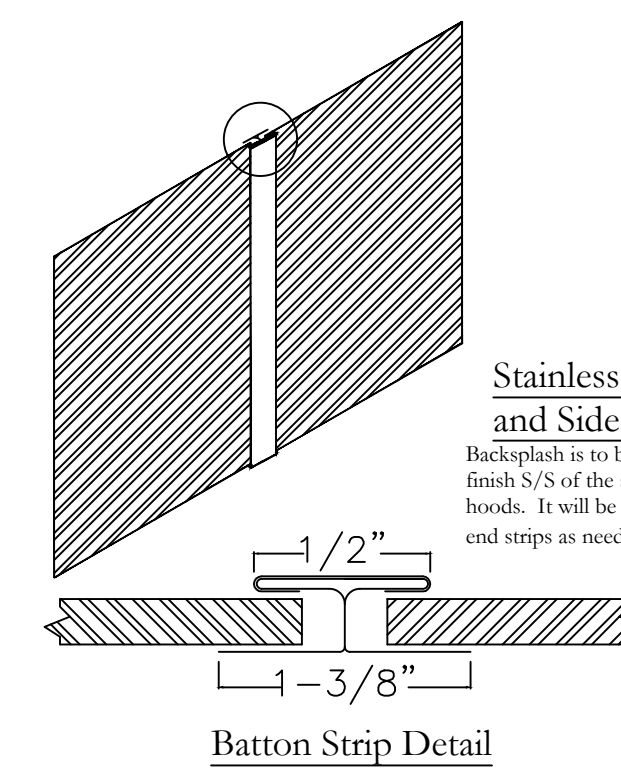
ETL LISTING DESCRIPTION BLOCK

THE CAPTIVE AIRE MODEL ND-2 HAS BEEN U.L. 710 TESTED, LISTED, AND APPROVED TO EXHAUST A MINIMUM OF 200 CFM PER LINEAR FOOT OVER 600 DEGREE COOKING EQUIPMENT



JOB	Jersey Mike's Subs
LOCATION	Hamburg, NY
DATE	10/18/19
DWG #	1
REV.	
JOB #	4026623
DRAWN BY	DL-32
SCALE	Not To Scale

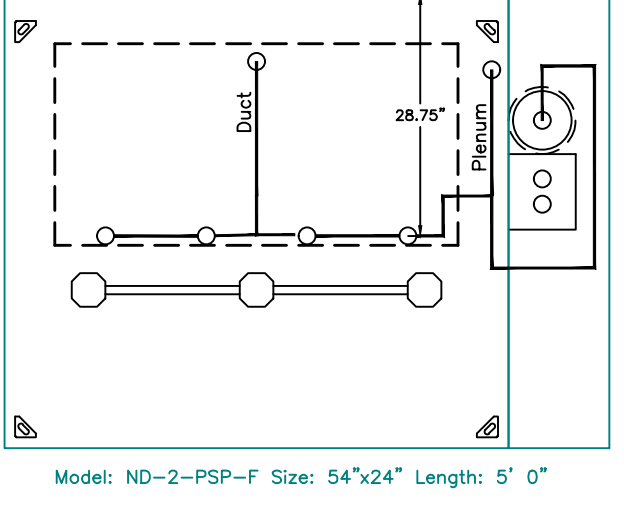
KEH-1 FIRE SYSTEM/INSTALLATION DETAILS



JOB	Jersey Mike's Subs
LOCATION	Hamburg, NY
DATE	10/18/19
DWG #	2
REV.	
JOB #	4026623
DRAWN BY	DL-32
SCALE	Not To Scale

KEH-1 FIRE SYSTEM/INSTALLATION DETAILS

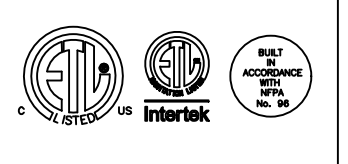
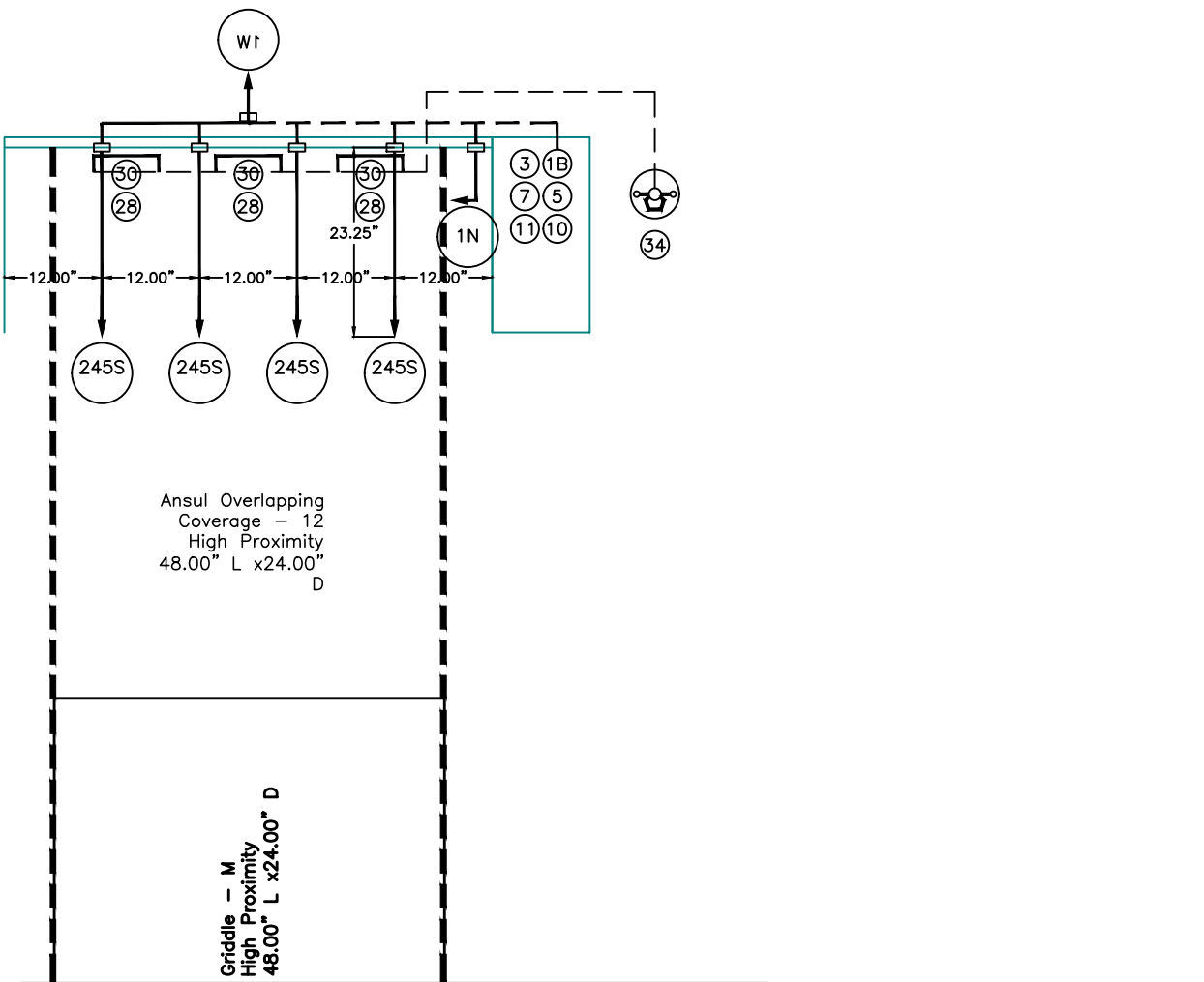
- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVEING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- IF APPLICABLE, PRE-PIPED CHARGEDROPPER DROPS 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



Job Name: Jersey Mike's - PROTOTYPE
Drawn By: WF-32
System Size: ANSUL-3.0 Total EP required: 10
Hood # 1 5' 0.00" Long x 54" Wide x 24" High
Riser # 1 Size: 10" Dia.
Hood # 1 Metal Blow-Off Caps included.

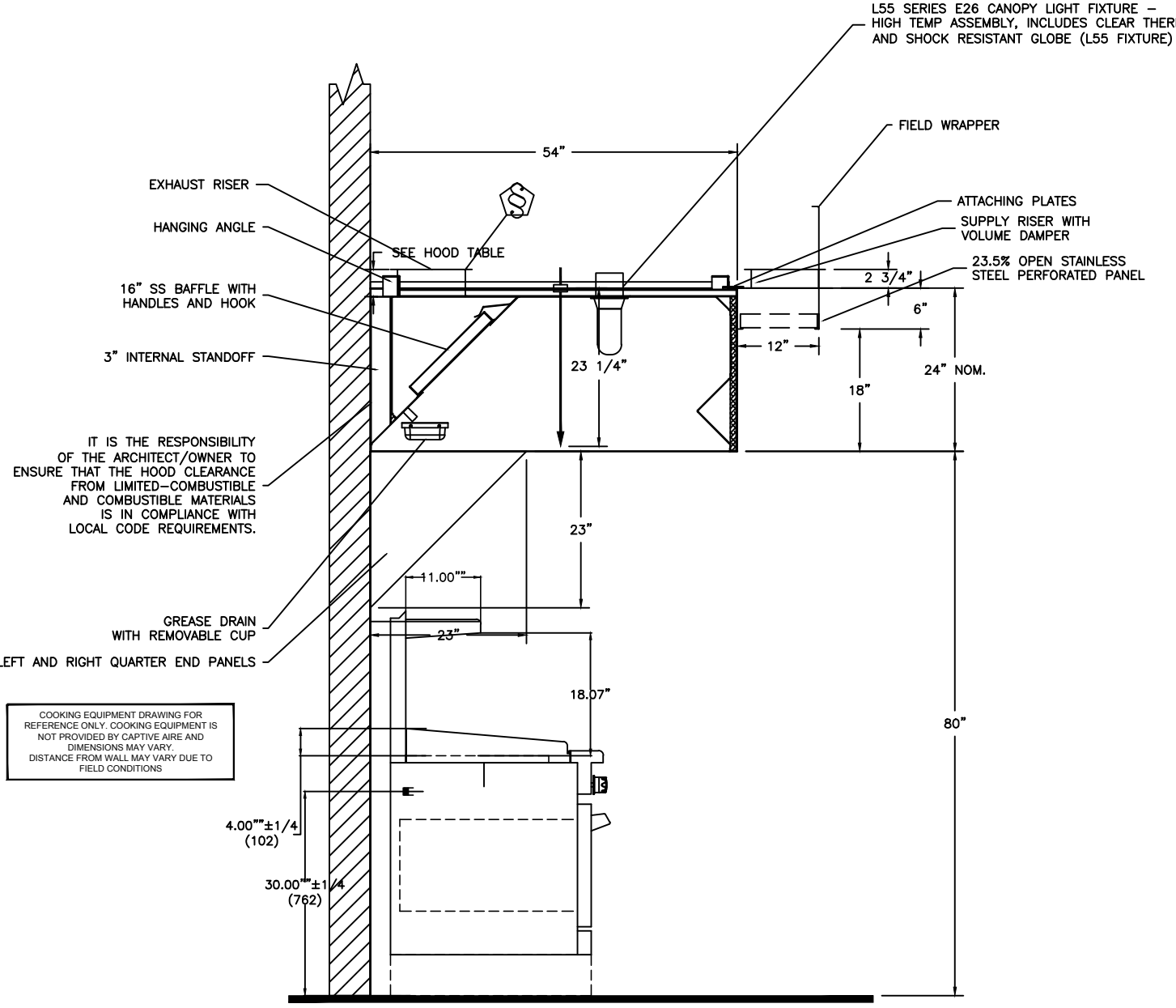
LEGEND - FIRE CABINET ANSUL SYSTEM

- 1.5 GALLON TANK 1A
- 3 GALLON TANK 1B
- OEM AUTOMAN RELEASE 2
- OEM REGULATED RELEASE 3
- OEM REGULATED ACTUATOR 4
- ANSULEX LIQUID AGENT (3 GAL.) 5
- ANSULEX LIQUID AGENT (1.5 GAL.) 6
- CARTRIDGE (101-20) 7
- CARTRIDGE (101-10) 8
- CARTRIDGE (101-30) 9
- CARTRIDGE (LT-A-101-30) 9A
- DOUBLE TANK CARTRIDGE 9B
- TEST LINK 10
- DOUBLE MICROSWITCH 11
- HOSE ASSEMBLY 12
- DUCT NOZZLE (430913) 1100
- DUCT NOZZLE (419337) 2W
- NOZZLE ASSEMBLY (419336) 1W
- NOZZLE ASSEMBLY (419333) 1F
- NOZZLE ASSEMBLY (419335) 1N
- NOZZLE ASSEMBLY (419334) 1/2N
- NOZZLE ASSEMBLY (419335) 3N
- NOZZLE ASSEMBLY (419340) 245
- NOZZLE ASSEMBLY (419339) 230
- NOZZLE ASSEMBLY (419343) 2120
- NOZZLE ASSEMBLY (419342) 290
- NOZZLE ASSEMBLY (419341) 260
- DETECTOR BRACKET 28
- LOW TEMP FUSIBLE LINK 29
- HIGH TEMP FUSIBLE LINK 30
- MECHANICAL GAS VALVE MOV
- ELECTRICAL GAS VALVE EGV
- REMOTE MANUAL PULL STATION 34
- SWIVEL ADAPTOR S

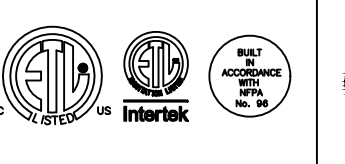


JOB	Jersey Mike's Subs
LOCATION	Hamburg, NY
DATE	10/18/19
DWG #	3
REV.	
JOB #	4026623
DRAWN BY	DL-32
SCALE	Not To Scale

KEH-1 ANSUL APPLIANCE PROTECTION DETAILS



DUCT NOZZLE AND PLENUM SPRAY BAR LOCATION



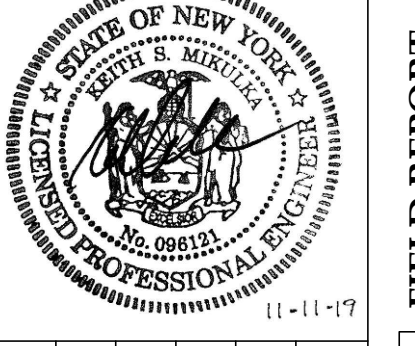
JOB	Jersey Mike's Subs
LOCATION	Hamburg, NY
DATE	10/18/19
DWG #	4
REV.	
JOB #	4026623
DRAWN BY	DL-32
SCALE	Not To Scale

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NO.	REVISIONS	DATE

CHECKED BY: K1
DRAWN BY: K1

HOOD AND FAN DETAILS 1

H-2.1
JOB NO. 19022

DATE: OCTOBER 14, 2019 DOCUMENT STATUS: PERMIT SET FINAL FOR CONSTRUCTION BID SET FIELD REPORT

KEF-1 GRIDDLE FAN (CANOPY HOOD)

EXHAUST FAN INFORMATION

FAN UNIT MODEL #	MODEL	CFM	ESP.	RPM	H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
DU50HFA	DU50HFA	1000	1.000	1471	0.500	1	115	8.4	84	15.3

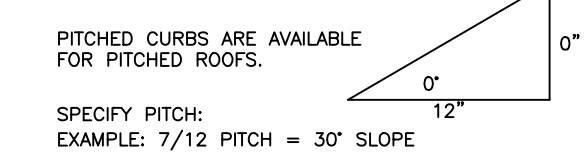
FAN OPTIONS

1 - Grease Box

CURB ASSEMBLIES

ON FAN	WEIGHT	ITEM	SIZE
DU50HFA	38 LBS	Curb	19.500"W x 19.500"L x 26.000"H Vented Hinged

VERIFY ROOF PITCH



IF ROOF INSULATION THICKNESS IS GREATER THAN 7.5" PLEASE CONTACT CAPTIVEAIRE TO EITHER ORDER TALLER CURBS OR WINDBAND EXTENSION

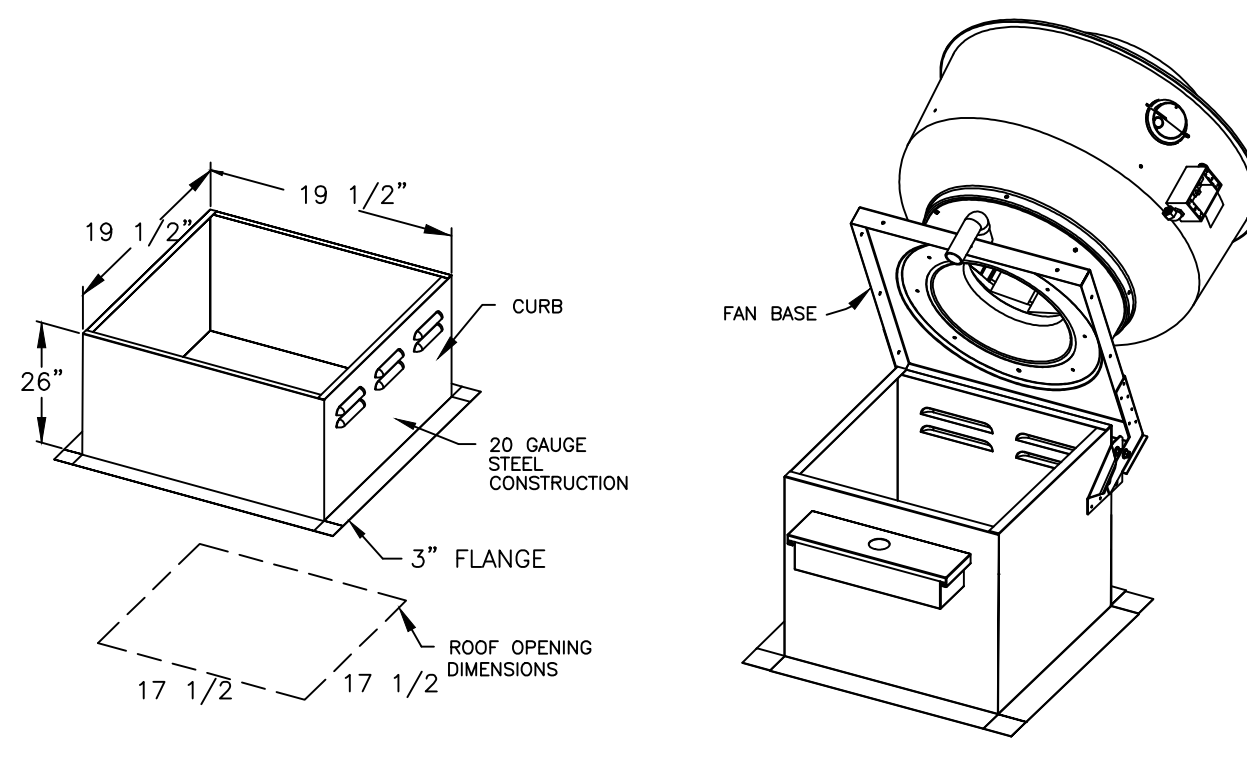
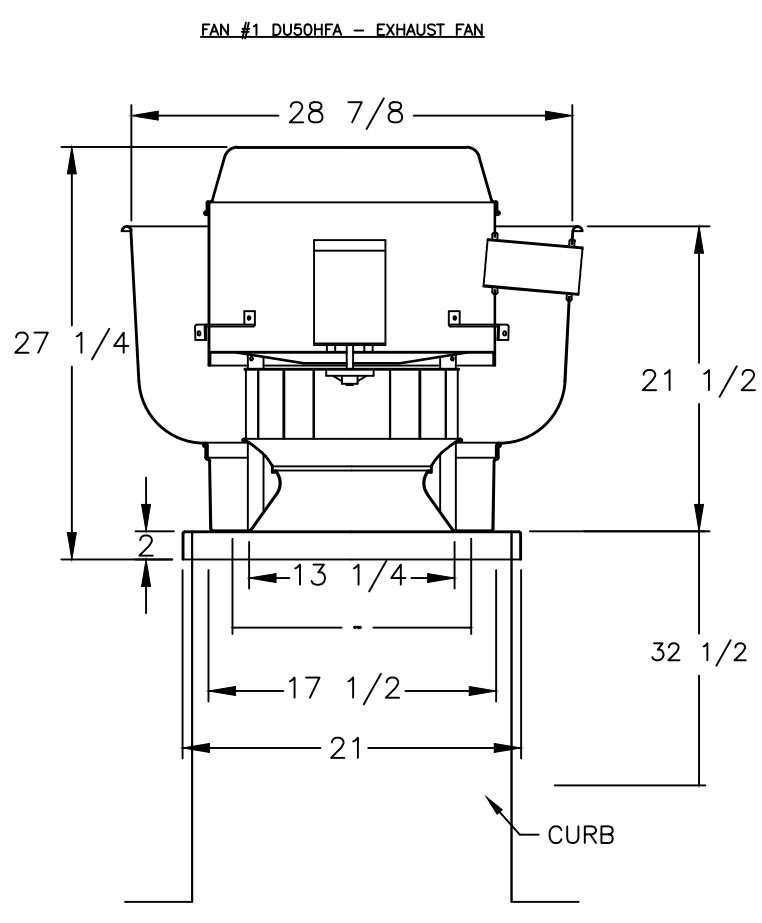
ATTENTION!
INSTALLER MUST READ LABEL NEAR DISCONNECT SWITCH!
MESSAGE ON LABEL:
"INSTALLER SHOULD SUPPLY ENOUGH ELECTRICAL CORD TO LET FAN MAKE COMPLETE SWING"

- FEATURES:**
- ROOF MOUNTED FANS
 - RESTAURANT MODEL
 - UL705 AND UL762
 - VARIABLE SPEED CONTROL
 - INTERNAL WIRING
 - WEATHERPROOF DISCONNECT
 - THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
 - HIGH HEAT OPERATION 300°F (149°C)
 - GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETRIMENTARY EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

- OPTIONS**
- GREASE BOX



JOB Jersey Mike's Subs
LOCATION Hamburg, NY
DATE 10/18/19
DWG # 5
REV.

JOB # 4026623
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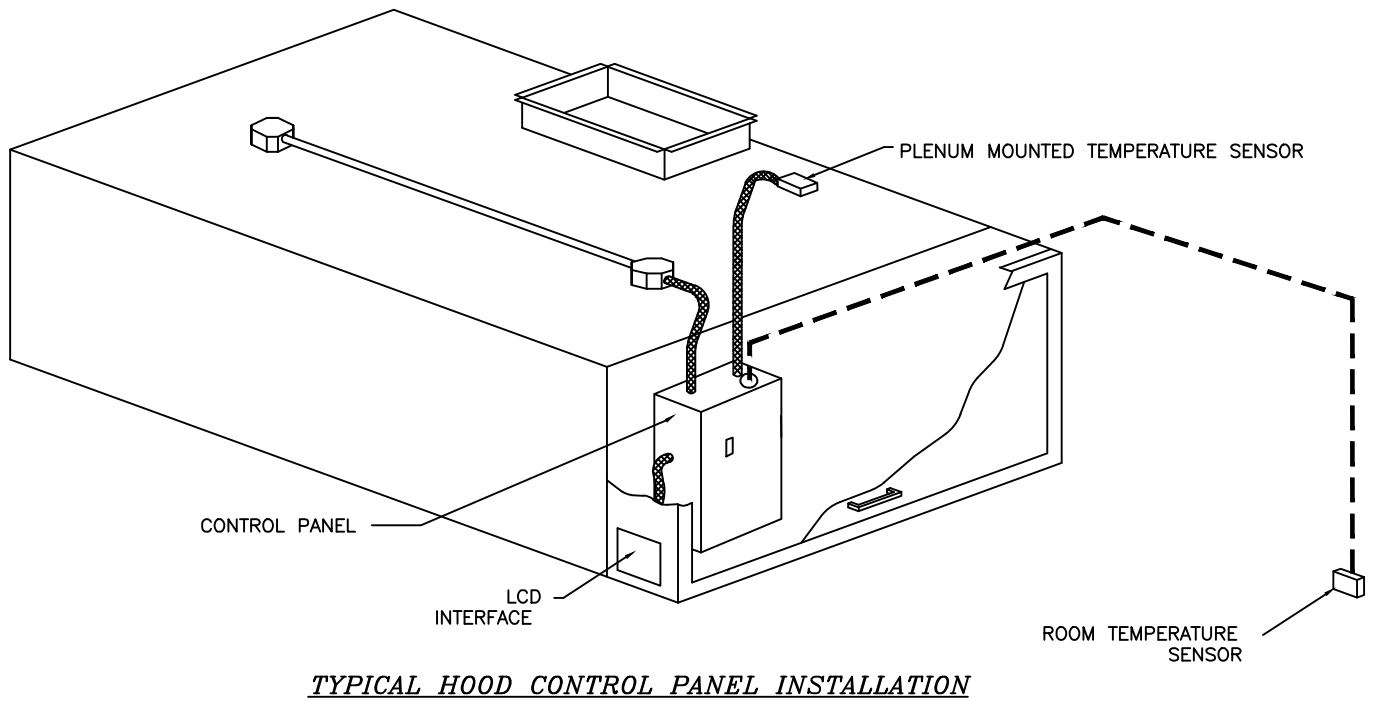
ELECTRICAL PACKAGES

NO.	TAG	PACKAGE #	LOCATION	LOCATION	SWITCHES	QUANTITY	OPTION	FANS CONTROLLED
1		SC-11111OFF	Right Utility Cabinet	Right Utility Cabinet	1 Light	1	Smart Controls Thermostatic Control	DOWN

ROOM TEMPERATURE SENSOR

The Room Temperature Sensor is a 10K Ohm Thermistor. The sensor provides constant room temperature to the controller. It should be installed on a wall somewhere in the space but not directly under the hood or close to an appliance so that the reading is not affected by heat.

Typically a system will have one room temperature sensor. However, systems configured with 2 fan zones have the option to be ordered with 2 room temperature sensors, one for each zone. They should be mounted in the space accordingly.



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATION - HOOD CONTROLS
ELECTRICAL PACKAGE: FP SERIES

Once all power, light and temperature sensor circuits are properly landed on the control terminal block the LCD interface will be illuminated. All temperature readings are measured by relative temperature sensors (thermistors) installed in each hood exhaust riser. One room temperature sensor is installed in the space to measure ambient air temperature.

Two methods to activate system:

Manual activation:
Operator presses the fan button to energize starter(s) and start the exhaust fan(s). Supply fan(s), if present, will be activated by factory pre-wired interlock.

Automatic activation:
Turn on cooking appliances. Exhaust fan(s) [and supply fan(s), if present] will automatically energize when duct temperature exceeds pre-set differential with respect to ambient room temperature (factory setpoint differential = 10 degrees F, adjustable). At the end of the day, after cooking operations have ceased, the fan(s) will shut off when the duct temperature falls below the setpoint differential.

FIRE CONDITION
IN THE EVENT OF A FIRE, A SIGNAL IS SENT ACROSS THE NORMALLY OPEN DRY CONTACT OF THE FIRE SUPPRESSION SYSTEM MICROSWITCH (INTERLOCKED WITH HOOD CONTROL PANEL BY ELECTRICIAN), EXHAUST FAN(S) TO REMAIN RUNNING, SUPPLY FAN(S) TO DE-ENERGIZE, LIGHTING CIRCUIT(S) TO DE-ENERGIZE, GAS/ELECTRIC TO SHUT OFF. MICROSWITCH MUST BE RESET PRIOR TO RESUMPTION OF NORMAL OPERATION.

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KSF-1 HEATED SUPPLY FAN (DOWN DISCHARGE)

MUA FAN INFORMATION

FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
D76	G7D	D.6	600	750	0.400	1473	1.000	.2710	1	115	11.6	327	15.7

GAS FIRED MAKE-UP AIR UNIT(S)

INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
39218	36081	59 deg F	7 in. w.c. - 14 in. w.c.	Natural

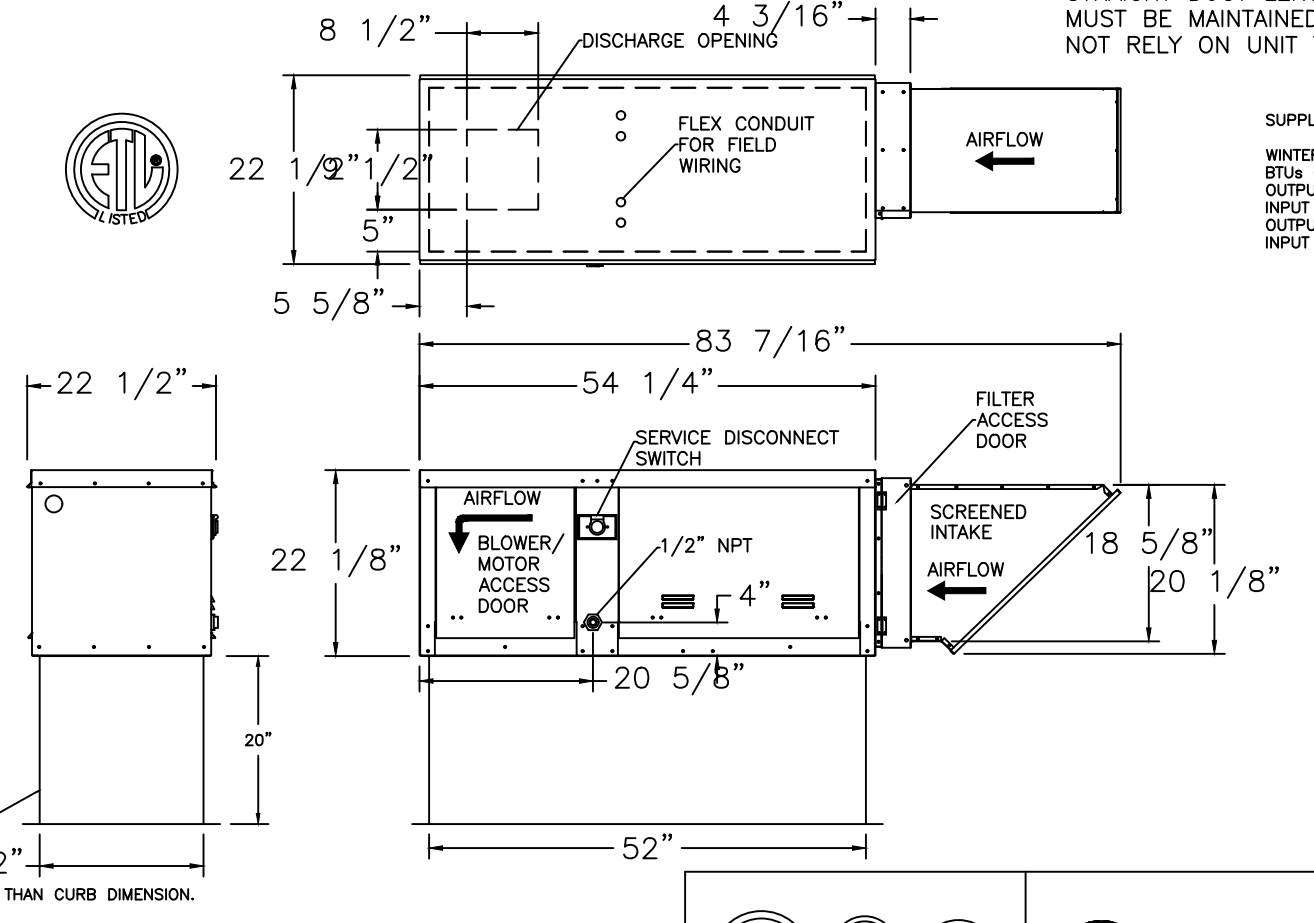
FAN OPTIONS

OPTION (Qty. - Descr.)

1 - AC Interlock Relay - 24VAC Coil
1 - Inlet Pressure Gauge, 0-35"
1 - Manifold Pressure Gauge, -5 to 15" w.c.
1 - ECM Wiring Package-Supply - Manual or 0-10VDC Reference Speed Control (NDEC Motor)
1 - Motorized Intake Damper (D76)
1 - Freezestat (10)

CURB ASSEMBLIES

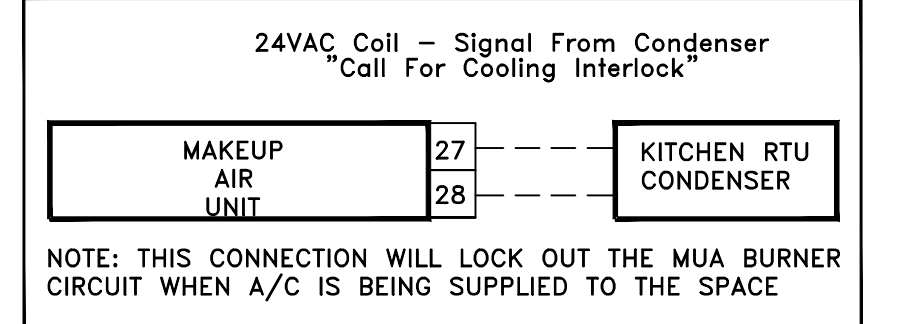
WEIGHT	ITEM	SIZE
50 LBS	Curb	19.500"W x 52.000"L x 20.000"H Insulated



- D76D HEATER**
1. LOW CFM DIRECT FIRED HEATER. DIRECT DRIVE.
 2. INTAKE HOOD WITH EZ FILTERS
 3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
 4. COOLING INTERLOCK RELAY. 24VAC COIL. 120V CONTACTS. LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
 5. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
 6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE
 7. ECM WIRING PACKAGE AND MANUAL OR 0-10VDC CONTROL FOR SUPPLY EC MOTORS. RTC CONTROLLER.
 8. MOTORIZED BACK DRAFT DAMPER 13" X 17" FOR D76 COMPACT DIRECT FIRED HEATERS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, TF120S ACTUATOR INCLUDED
 9. FREEZESTAT WITH 10' SENSOR. FACTORY SET AT 35°F AND 10 MINUTES.

NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH EQUAL TO THREE TIMES THE SUPPLY DUCT EQUIVALENT DIAMETER MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE UNLESS OTHERWISE SPECIFIED. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY.

SUPPLY SEER HEATER INFORMATION:
WINTER TEMPERATURE = 14°F. TEMP. RISE = 99°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FL. = 37819
INPUT BTUs AT ALTITUDE OF 0.0 FL. = 41108
OUTPUT BTUs AT ALTITUDE OF 1296 FL. = 36681
INPUT BTUs AT ALTITUDE OF 1296 FL. = 39219



MUA/ RTU INTERLOCK DETAIL (BY ELECTRICIAN)

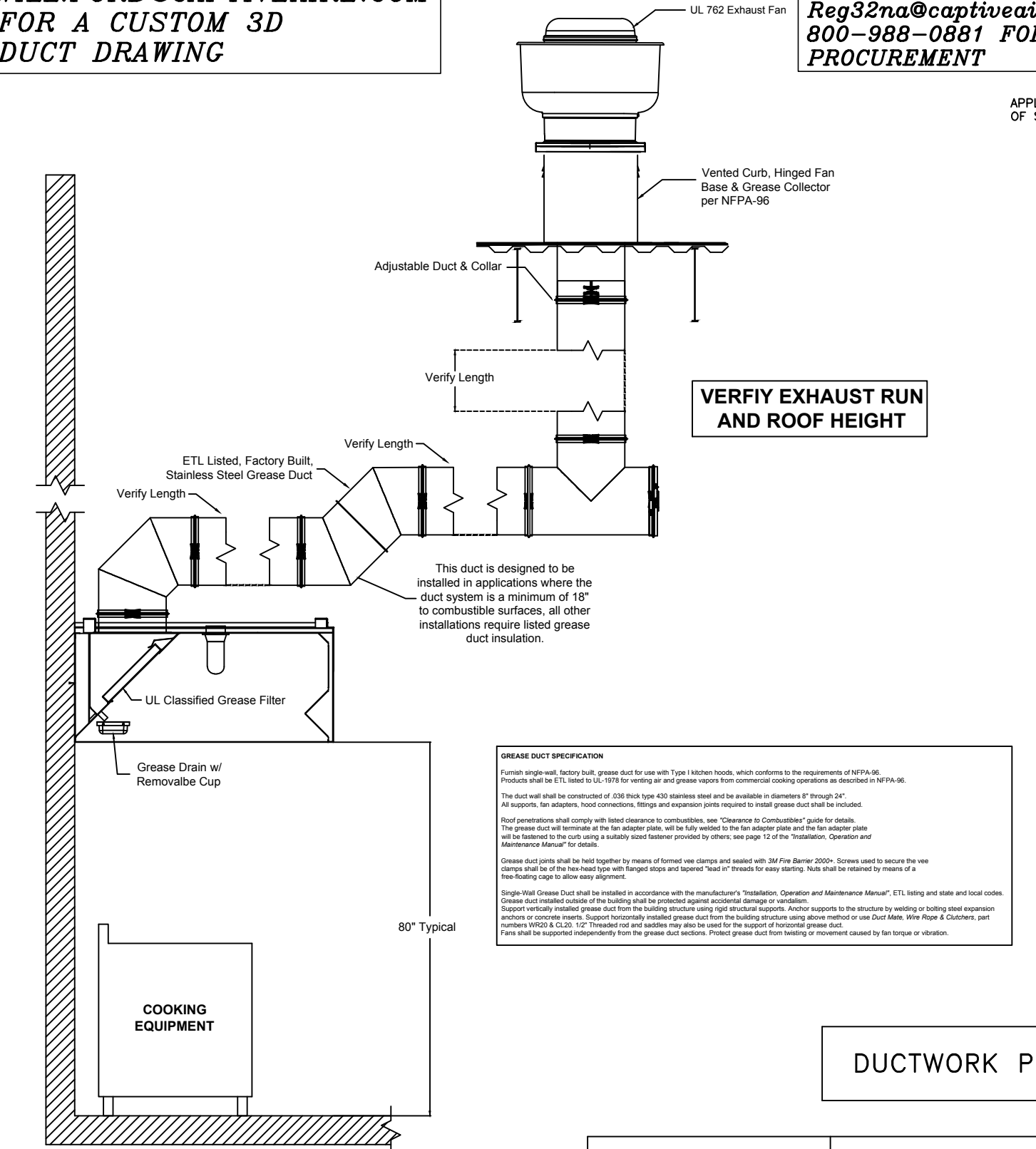
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LOCATION Hamburg, NY
DATE 10/18/19
DWG # 6
REV.

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GRIDDLE HOOD DUCTWORK

PLEASE CONTACT WWW.FORDCAPTIVEAIRE.COM FOR A CUSTOM 3D DUCT DRAWING



CAPTIVEAIRE LISTED GREASE DUCTWORK IS PROVIDED BY GENERAL CONTRACTOR, CONTACT
Reg32na@captivaire.com
800-988-0881 FOR PROCUREMENT

DUCTWORK PROVIDED THROUGH THE GENERAL CONTRACTOR

JOB Jersey Mike's Subs
LOCATION Hamburg, NY
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DWG # 8
REV.

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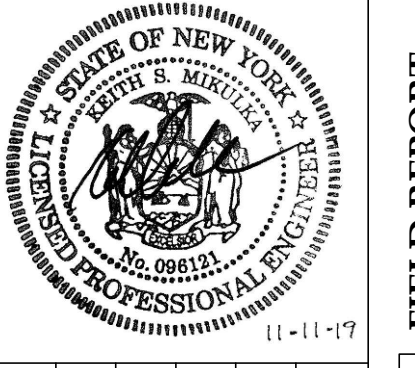


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REVISIONS

NO.	DATE	DESCRIPTION

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DRAWN BY: K1

HOOD AND FAN DETAILS 2

H-2.2
JOB NO. 19022

DATE: OCTOBER 14, 2019 DOCUMENT STATUS: PERMIT SET FINAL FOR CONSTRUCTION BID SET FIELD REPORT

GRIDDLE HOOD DUCTWORK

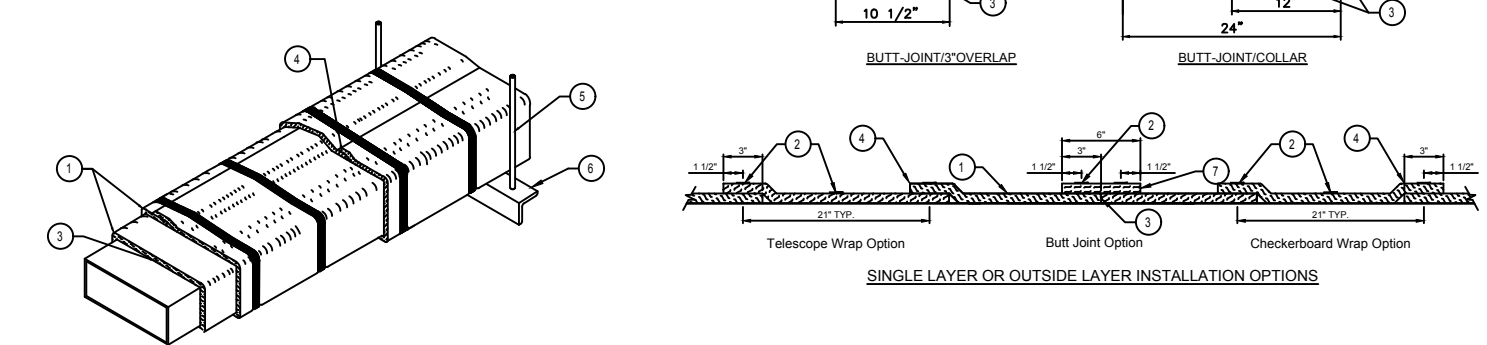
GREASE DUCT & CHIMNEY SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW"
 ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW"
 IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING
 CONNECTIONS SEaled WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW"
 DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER
 THE MANUFACTURER'S INSTALLATION GUIDE.
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER
 MANUFACTURER LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16"
 PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".
 DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE
 ACCUMULATION IN HORIZONTAL RUNS.
 IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR
 UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE
 SYSTEMS MODEL "DW" - 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER
 DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted
 Approved with NO Exception Taken
 Rules and Resubmit
 SIGNATURE _____
 Your Title _____ Date _____

CLEARANCE TO COMBUSTIBLES			
DIAMETER	COMBUSTIBLES	LIMITED COMBUSTIBLES	NON COMBUSTIBLES
8"	18"	3"	0"
10"	18"	3"	0"
12"	18"	3"	0"
14"	18"	3"	0"
16"	18"	3"	0"
18"	18"	3"	0"
20"	18"	3"	0"
24"	18"	3"	0"

Thermal Ceramics
 Pyrosca® Duct Wrap XL
 Commercial Kitchen Grease Duct Enclosure System
 Air Ventilation Duct Enclosure System
 1 or 2 Hour Shaft Alternative / Zero Clearance to Combustibles



- LEGEND**
- Two Layers of Pyrosca Duct Wrap XL Blanket for Grease Duct Enclosures
 - One Layer of Pyrosca Duct Wrap XL Blanket for Air Ventilation Duct Enclosures
 - Steel backing minimum 1/2" thick by 0.015" thick
 - Light duty joints on inner layer
 - Min. 1/2" overlap on perimeter and between adjacent blanket on outside layer
 - Min. 3/8" diameter hanger rod
 - Min. 1-1/2" x 1-1/2" angle for Grease Duct Enclosures
Min. 1-1/2" x 1-1/2" x 1/8" angle or SMAACNA Equivalent for Air Ventilation Duct Enclosures
 - Optional E-FieldMaster Pyrosca Duct Wrap XL collar

GREASE DUCT SPECIFICATION
 Furnish single-wall, factory built, grease duct for use with
 Type I kitchen hoods, which conforms to the requirements of
 NFPA-96, **CaptiveAir**, or approved equal. Products shall
 be ETL listed to the UL-1978 standard for entering air and
 grease vapors from commercial cooking operations as
 described in NFPA-96.
 The duct wall shall be constructed of .030" thick type 430
 stainless steel and be available in diameters of 8" to 24".
 The grease duct termination at the fan shall be fully welded
 to an adapter plate (where applicable) and the adapter
 plate shall be fastened to the curb using a suitably sized
 fastener provided by others. See Detail A.
 The duct shall be listed with 18" clearance to combustible
 materials, 3" clearance to limited combustible materials and
 0" clearance to non-combustible materials. Combustible
 materials are to be defined by the authority having
 jurisdiction. In cases where the duct distance to combustible
 materials is less than specified above, insulating products
 must be installed providing a reduced listing clearance.
 Approved insulating products include Thermal Ceramics
 FIREMASTER duct wrap 2x2" or equal when installed in
 accordance with the manufacturer's instructions. See
 Details B & C.

Grease duct joints shall be held together by means of
 formed vee clamps and sealed with 3M Fire Barrier 2000+.
 Screws used to secure the vee clamps shall be of the
 hex-head type with flanged stops and tapered "lead in"
 threads for easy starting. Nuts shall be retained by means of
 a free-floating cage to allow easy alignment. A continuous
 bead of sealant is to be applied to the duct flange to flange
 connection, as well as to the "V" groove of the vee clamp.
 See Detail D.
 Single-Wall Grease Duct shall be installed in accordance
 with the manufacturer's "Installation, Operation and
 Maintenance Manual", ETL listing and state and local codes.
 Grease duct installed outside of the building shall be
 protected against accidental damage or vandalism. Support
 vertically installed grease duct from the building structure
 using rigid structural supports. Anchor supports to the
 structure by welding or bolting steel expansion anchors or
 concrete inserts. Support horizontally installed grease duct
 from the building structure using above method or use Duct
 Mate. Wire Rope & Clutches, part numbers WR20 & CL20.
 1/2" Threaded rod and saddles may also be used for the
 support of horizontal grease duct. Fans shall be supported
 independently from the grease duct sections. Protect grease
 duct from twisting or movement caused by fan torque or
 vibration.

Grease duct installations require provisions for cleaning the
 interior of the duct. NFPA cleanout
 requirements are as follows:
 1. A cleanout must be provided at each change of direction
 except where the entire length of duct can be inspected and
 cleaned from either the hood or the discharge end.
 2. On horizontal duct runs, at least one 20" diameter
 opening must be provided. Where the opening is more
 than 20' diameter, opening large enough to permit cleaning
 must be provided at intervals of no more than 12'.
 3. Openings must be at the side or the top, whichever is
 more accessible. When the opening is on the side of the
 duct, the lower edge of the opening must be at least 1"
 above the bottom of the duct. For listed grease duct, this is
 accomplished by the use of the grease manifold tee and
 cleanout cap. See Detail E.
 4. On vertical duct runs where personnel entry is possible,
 access must be from the top of the riser where entry is not
 possible, access must be provided at each floor.

ETL LISTING DESCRIPTION BLOCK
 THE CAPTIVEAIRE MODEL
 VHB HAS BEEN U.L.
 710 TESTED, LISTED, AND
 APPROVED TO EXHAUST
 A MINIMUM OF 150 CFM PER
 LINEAR FOOT OVER 700
 DEGREE COOKING EQUIPMENT

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

1/2" DIA. HEAVY DUTY MET. SHEET PILING AND TWO BELOM BRACING ANGLE

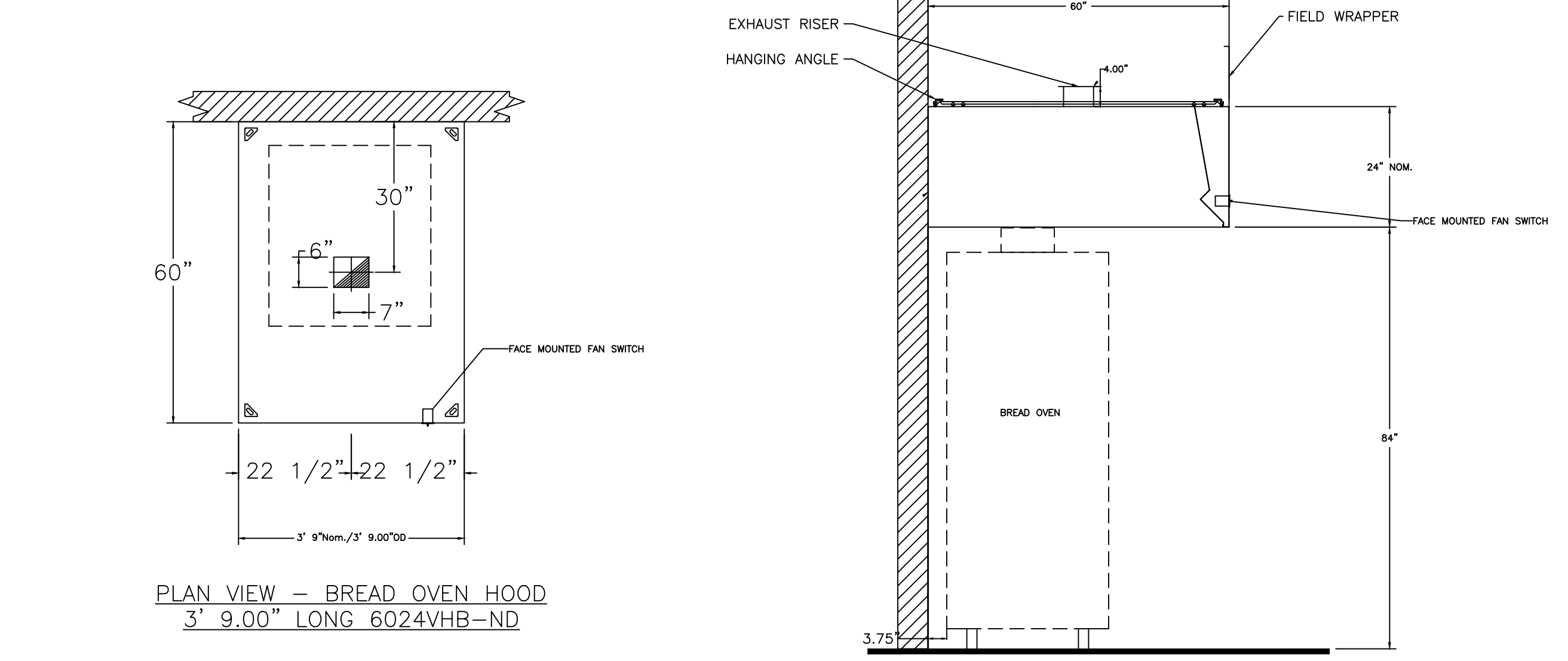
HOOD AND MUST BE SUPPORTED BY MECHANICAL CONTRACTOR. HANGING ANGLE DETAIL

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 A MINIMUM OF 150 CFM PER
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 DEGREE COOKING EQUIPMENT

KEH-2 BREAD OVEN HOOD (LEFT WALL)

MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)				HOOD CONSTRUCTION	HOOD CONFIG.		SWITCHES		HOOD HANGING WEIGHT	
				WIDTH	LENG.	HEIGHT	DI.		CFM	S.P.	END TO END	ROW		QUANTITY
6024 VHB-ND	3' 9.00"	700 Dep.	375	6"	7"	4"	375	-0.062"	430 SS 100%	ALONE	ALONE	1 FAN	FRONT RIGHT FACE	214 LBS.

VERIFY CEILING HEIGHT
 Height required to verify that the hood will fit and to size the enclosure panels



PLAN VIEW - BREAD OVEN HOOD
 3' 9.00" LONG 6024VHB-ND

SECTION VIEW - MODEL 6024VHB-ND
 BREAD OVEN HOOD

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HOOD AND MUST BE SUPPORTED BY MECHANICAL CONTRACTOR. HANGING ANGLE DETAIL

KEF-2 BREAD OVEN FAN

EXHAUST FAN INFORMATION

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1		DU12HFA	375	0.500	1404	0.180	0.1220	1	115	1.9	54	7.9

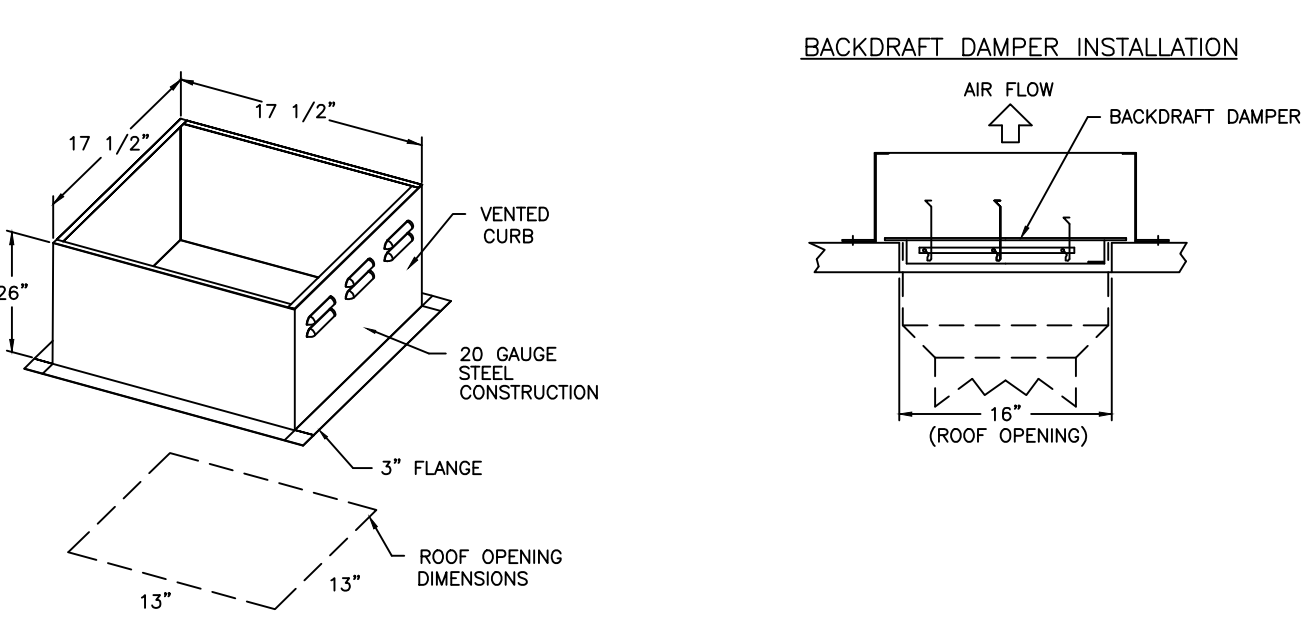
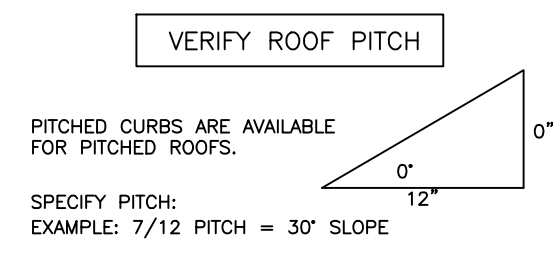
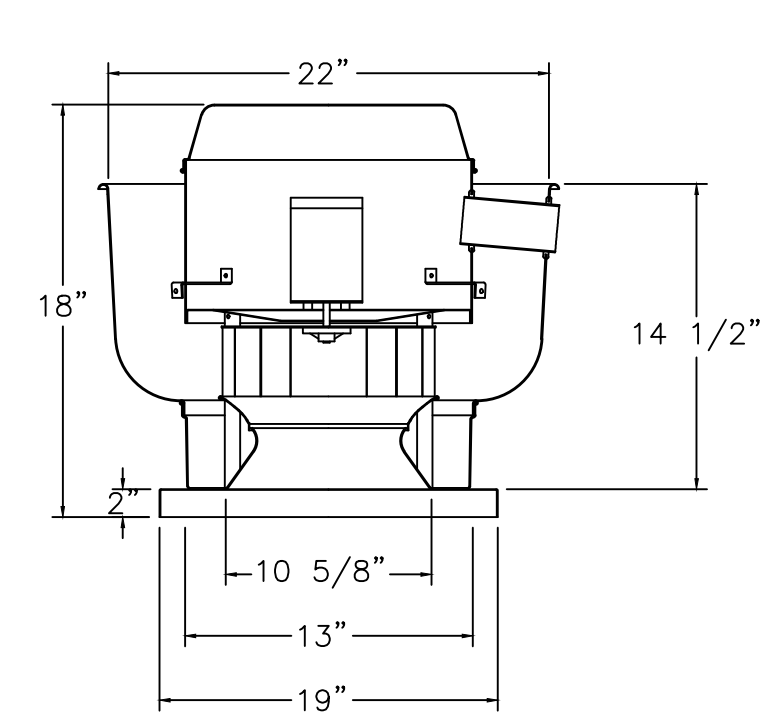
FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - 12-8DD Damper

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	31 LBS	Curb	17,500"W x 17,500"L x 26,000"H

FAN #1 DU12HFA - EXHAUST FAN



FEATURES:

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

NORMAL TEMPERATURE TEST
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETEIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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 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.

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1/2" DIA. HEAVY DUTY MET. SHEET PILING AND TWO BELOM BRACING ANGLE

HOOD AND MUST BE SUPPORTED BY MECHANICAL CONTRACTOR. HANGING ANGLE DETAIL

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HOOD AND FAN DETAILS 3

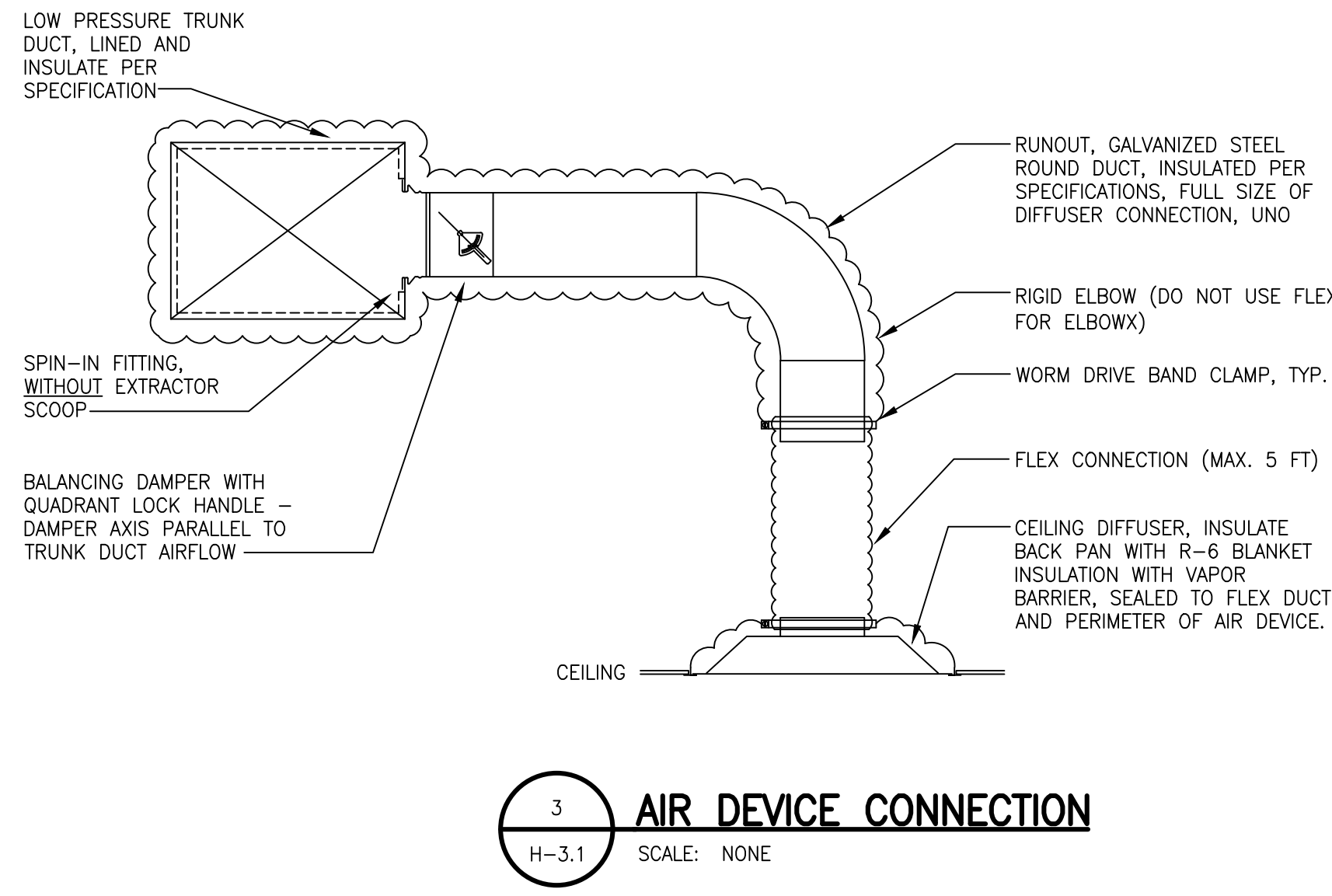
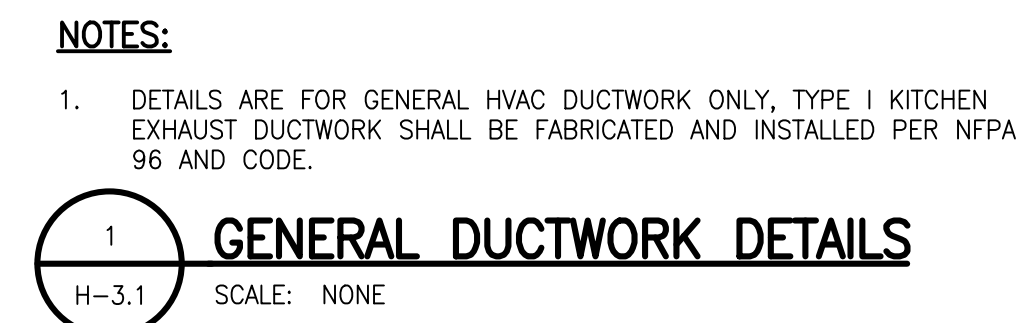
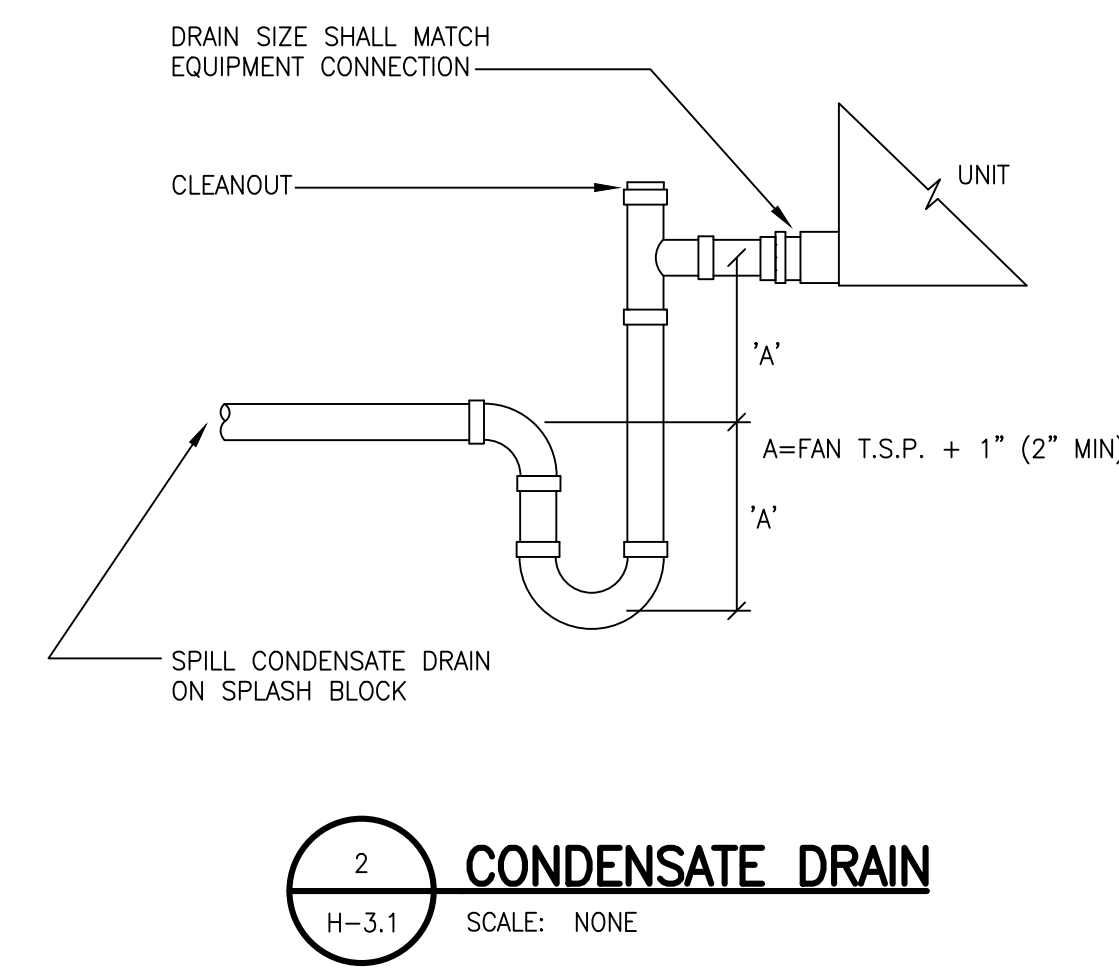
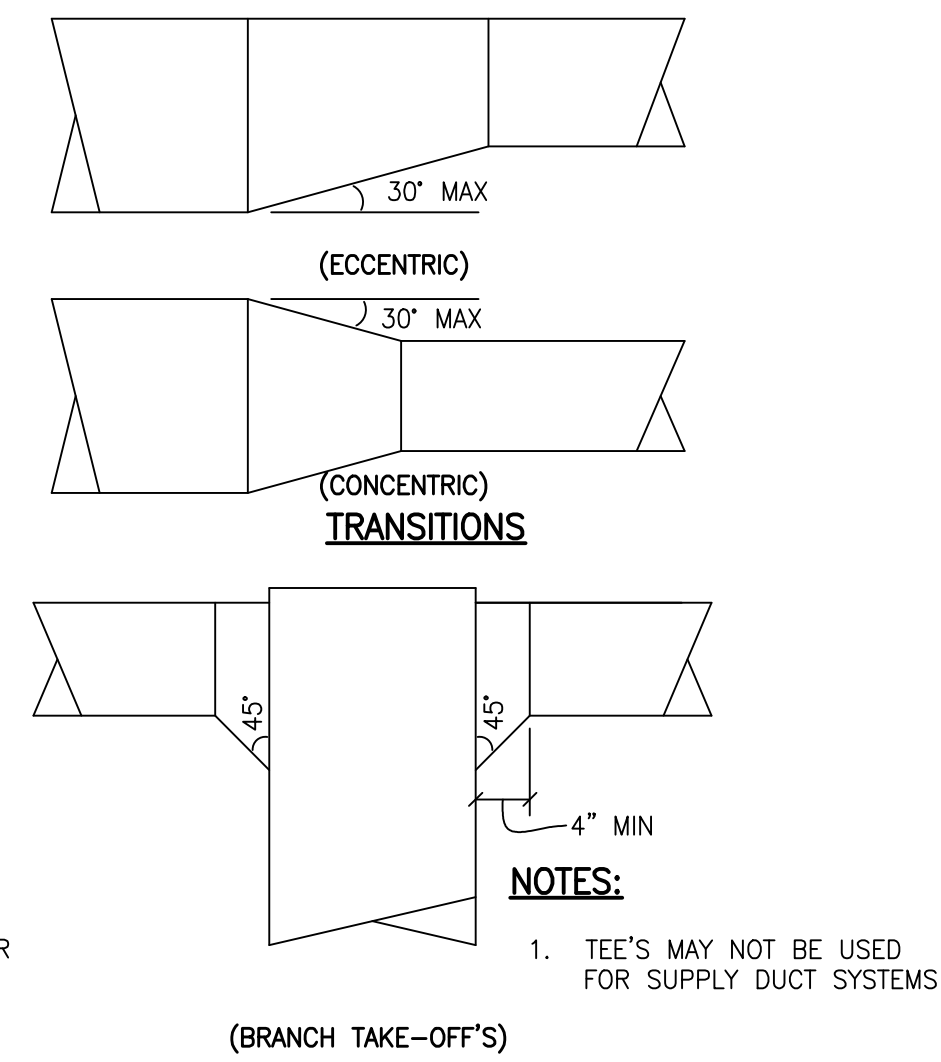
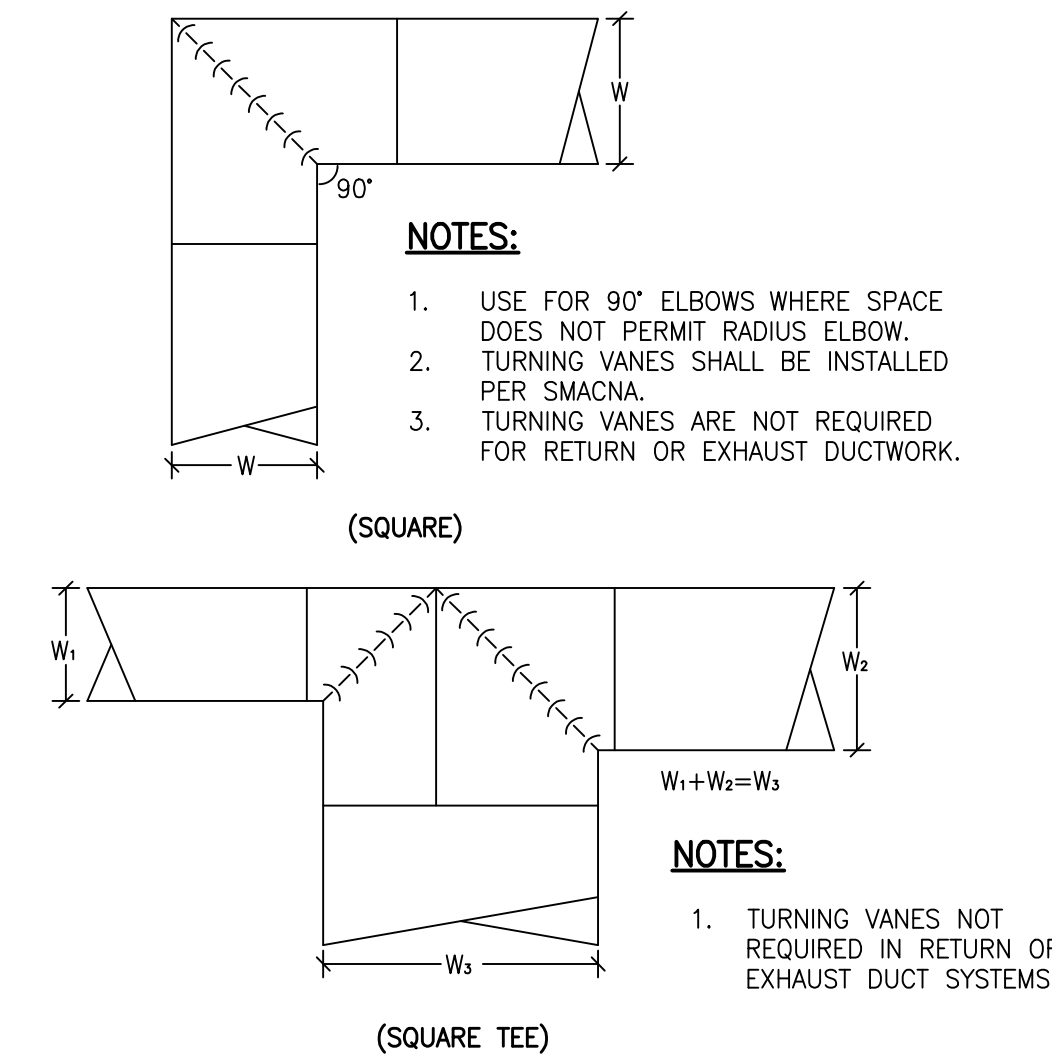
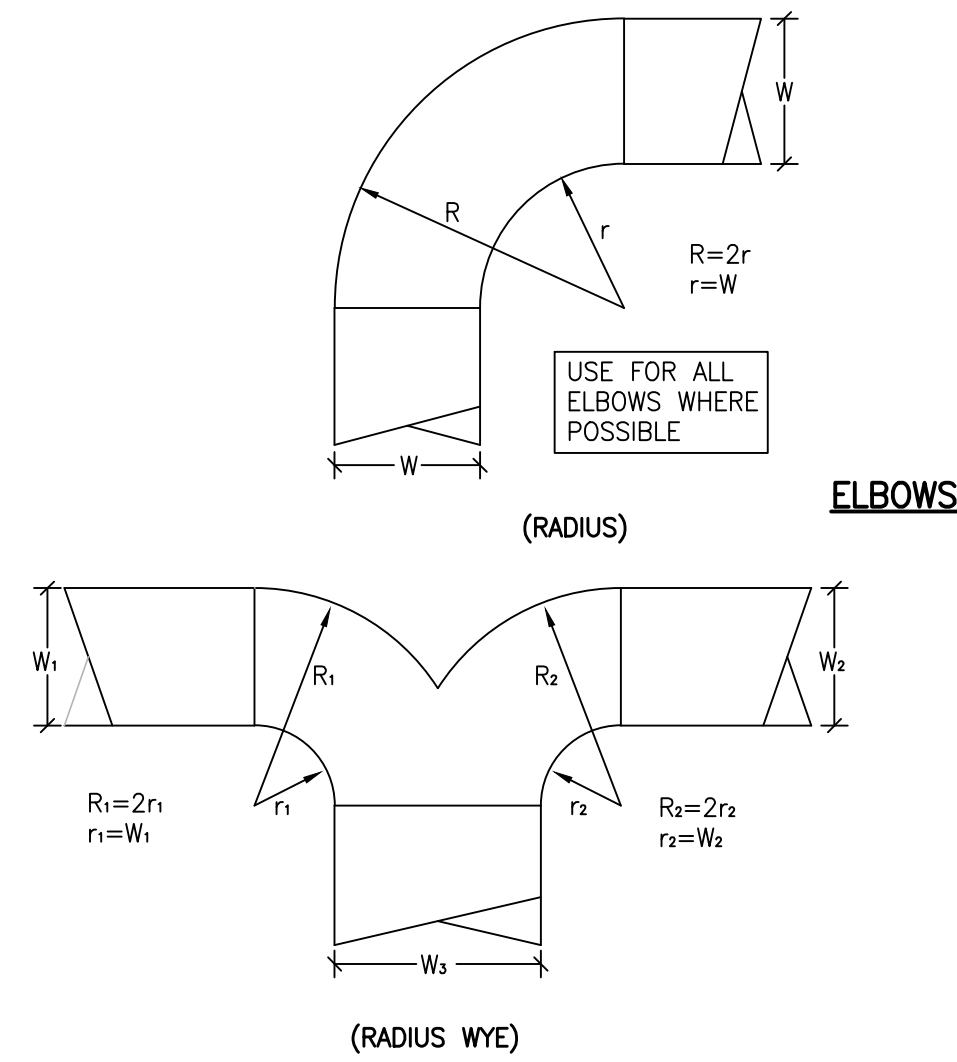
H-2.3
 JOB NO. 19022

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 ATLANTA, GEORGIA 30339
 (770)953-1443 FAX: (770)953-9533

DATE: OCTOBER 14, 2019 DOCUMENT STATUS: PERMIT SET FINAL FOR CONSTRUCTION FIELD REPORT BID SET

HVAC GENERAL NOTES

- WORK SHALL BE INSTALLED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH THE APPLICABLE BUILDING CODES AND STANDARDS ADOPTED BY THE AUTHORITY HAVING JURISDICTION AND ALL APPLICABLE LOCAL ORDINANCES.
- CONTRACTOR SHALL OBTAIN ALL PERMITS, LICENSES, INSPECTIONS, ETC., AND PAY ALL INCIDENTAL FEES, AS REQUIRED TO OBTAIN A PERMIT AND A PERMANENT CERTIFICATE OF OCCUPANCY.
- WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS. CONFLICTS WHICH ARISE DUE TO LACK OF PROPER COORDINATION SHALL BE CORRECTED AT THE CONTRACTOR'S COST.
- DESIGN INDICATED IS SCHEMATIC AND MAY NOT REFLECT ALL CONSTRAINTS IMPOSED BY ACTUAL PROJECT CONDITIONS. CONTRACTOR SHALL VISIT SITE AND REVIEW CONSTRUCTION DOCUMENTS (INCLUDING ALL TRADES) TO FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BID. CONTRACTOR'S BID SHALL INCLUDE ANY AND ALL COSTS REQUIRED TO REWORK THE DESIGN TO FIT WITHIN THE PHYSICAL CONSTRAINTS WHILE ACHIEVING THE OVERALL DESIGN INTENT.
- THE BASIS-OF-DESIGN PRODUCTS WERE USED TO DETERMINE DIMENSIONS, INSTALLATION AND ACCESS CLEARANCES, SUPPORTS, ELECTRICAL SERVICE, CONNECTION ARRANGEMENTS, ETC. WHERE ALTERNATE PRODUCTS ARE PROVIDED, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL REQUIREMENTS AND RECTIFY ANY CONFLICTS AT THE CONTRACTOR'S COST.
- ALL WORK SHALL BE INSTALLED TO AVOID CONFLICT WITH ELECTRICAL EQUIPMENT "DEDICATED SPACE" AS REQUIRED BY NEC AND LOCAL ORDINANCES. COORDINATE LOCATIONS OF ALL ELECTRICAL GEAR (DISTRIBUTION PANELS, TRANSFORMERS, SWITCHGEAR, ETC.) WITH ELECTRICAL CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION.
- CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL EQUIPMENT AND DEVICES WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- ALL MATERIALS AND EQUIPMENT SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO ORDERING. CONTRACTOR ASSUMES LIABILITY AND COSTS FOR ANY PRODUCT WHICH IS ORDERED PRIOR TO RECEIPT OF APPROVED SUBMITTALS.
- ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE. ADDITIONAL WARRANTY SHALL APPLY WHERE SPECIFIED.
- EQUIPMENT START-UP AND COMMISSIONING SHALL BE PERFORMED BY FACTORY-AUTHORIZED AGENTS ONLY. SUBMIT WRITTEN START-UP PROCEDURES TO OWNER FOR APPROVAL PRIOR TO PERFORMANCE OF START-UP ACTIVITIES. FINAL REPORTS SHALL BE APPROVED BY OWNER.
- ALL PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH UL-LISTED SYSTEM APPROVED FOR THE APPLICATION.
- FLASH AND SEAL ALL PENETRATIONS OF BUILDING EXTERIOR, WALLS AND ROOF WITH APPROVED SEALANT.
- ALL EQUIPMENT SHALL BE NEW EXCEPT FOR EQUIPMENT SPECIFICALLY NOTED AS EXISTING TO REMAIN. CONTRACTOR SHALL TEST EXISTING EQUIPMENT FOR PROPER OPERATION AND REPORT CONDITION TO OWNER. ALL UNREPORTED EQUIPMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED IF NOT FUNCTIONAL AT THE DATE OF BENEFICIAL OCCUPANCY. NEW EQUIPMENT SHALL BE UL OR ETL LISTED AND LABELED. GAS-FIRED EQUIPMENT SHALL ALSO BE AGA OR CSA LISTED AND LABELED. INSTALL ALL EQUIPMENT PER THESE DOCUMENTS, MANUFACTURER'S RECOMMENDATIONS, AND CODE REQUIREMENTS FOR SPECIFIC APPLICATION.
- EXCEPT WHERE SPECIFIED OTHERWISE, MECHANICAL CONTRACTOR SHALL PROVIDE STARTERS AND ELECTRICAL DISCONNECTS FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- PROVIDE PERMANENT LABELS FOR ALL EQUIPMENT, CONTROLS, AND PIPING.
- GENERAL DUCTWORK SHALL BE G90 GALVANIZED STEEL, LOCK-FORMING QUALITY, FABRICATED AND INSTALLED PER SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" AND CODE. DUCTWORK SHALL BE RATED FOR 1" WG, AND SEALED TO CLASS A SEAL USING UL-181A OR 181B WATER-BASED MASTIC. **DUCT SIZES SHOWN ARE NET FREE AREA DIMENSIONS, ADJUST SHEETMETAL SIZES FOR DUCT LINER AS REQUIRED.** INSULATE ALL CONCEALED METAL GENERAL DUCTWORK WITH R-11 FIBERGLASS DUCT WRAP EXCEPT WHERE OTHERWISE SPECIFIED. PROVIDE 1" 1.5 PCF ACUSTICAL FIBERGLASS DUCT LINER AT SUPPLY AND RETURN DUCTWORK FROM EQUIPMENT CONNECTION THRU FIRST 15 FEET OF DUCTWORK. DUCT LINER SHALL HAVE NEOPRENE COATING WITH ANTIMICROBIAL TREATMENT ON AIR SIDE.
- TYPE I KITCHEN HOOD (GREASE) EXHAUST DUCTWORK SHALL BE FACTORY BUILT, LISTED GREASE DUCT SYSTEM; ETL LISTED TO UL 1978 AND UL 2221; LISTED FOR 3/4" CLEARANCE TO COMBUSTIBLES AND ZERO CLEARANCE TO NON-COMBUSTIBLES; DOUBLE WALL CONSTRUCTION WITH 0.038" THICK 403 STAINLESS STEEL INNER DUCT AND 0.024" THICK STAINLESS STEEL OUTER WALL; DUCT JOINTS SECURED WITH V CLAMPS AND SEALED WITH 3M FIRE BARRIER 2000+ SEALANT; FABRICATED AND INSTALLED PER NFPA 96 AND CODE; -1"W.G PRESSURE CLASS; DUCT SHALL BE CONSTRUCTED TO PREVENT ACCUMULATION OF GREASE OR OBSTRUCTION FROM PROPER DRAINAGE - NO BOLTS, RIVETS, FLANGES, ETC., MAY PROTRUDE INTO DUCT; PROVIDE ACCESS DOORS FOR CLEANING AND INSPECTION OF DUCT SYSTEM WHERE REQUIRED; ALL JOINTS AND SEAMS LIQUID TIGHT; LISTED FOR 500°F CONTINUOUS SERVICE AND INTERMITTENT EXPOSURE TO 2,000°F; ENTIRE DUCT SYSTEM SHALL BE CONSTRUCTED FROM A SINGLE MANUFACTURER'S SYSTEM AND SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. SEE DETAILS ON M-201
 - WHERE REQUIRED, INSULATE TYPE I EXHAUST DUCT WITH MIN 2" THICK MAGNESIUM BLOCK, WITH STAGGERED JOINTS, ATTACHED WITH GALVANIZED STEEL WIRE. MAGNESIUM BLOCK SHALL BE RATED TO 1000°F AND HAVE 0.20 BTU/LB.-F SPECIFIC HEAT. SYSTEM SHALL BE INSTALLED PER NEW YORK CITY MECHANICAL CODE AND APPROVED BY THE COMMISSIONER OF BUILDINGS OF THE CITY OF NEW YORK.
- FLEXIBLE DUCT SHALL BE UL 181 CLASS 1, STEEL WIRE HELIX WITH REINFORCED INNER LAYER, R-6 FIBERGLASS INSULATION, AND FOIL-FACED OUTER VAPOR BARRIER.
- REFRIGERANT SUCTION AND LIQUID (RS&L) PIPING SHALL BE ASTM B280 TYPE ACR COPPER TUBING WITH NO JOINTS. INSULATE SUCTION PIPING WITH 1" THICK ELASTOMERIC PIPE INSULATION SEALED AT ALL JOINTS AND SEAMS WITH APPROVED CONTACT CEMENT.
- EXCEPT WHERE NOTED OTHERWISE, EACH SUPPLY AIR DEVICE SHALL HAVE MANUAL BALANCING DAMPER AT TAKE-OFF CONNECTION TO SUPPLY TRUNK DUCT.
- AIR DEVICES SHALL BE AS NOTED OR SCHEDULED. COORDINATE BORDER AND MOUNTING WITH SURFACE IN WHICH INSTALLED. REFER TO ARCHITECTURAL DRAWINGS. AIR DEVICES IN FINISHED SPACES SHALL BE FREE OF VISIBLE FASTENERS. COLOR AND FINISH SHALL BE APPROVED BY THE ARCHITECT.
- PROVIDE UL 555 FIRE DAMPERS (UL 555S COMBINATION FIRE/SMOKE DAMPERS) AT ALL AIR DISTRIBUTION SYSTEM PENETRATIONS OF FIRE RATED (FIRE AND SMOKE RATED) ASSEMBLIES.
- SUPPORT EQUIPMENT DIRECTLY FROM BUILDING STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE VIBRATION ISOLATION FOR ALL EQUIPMENT WITH ROTATING PARTS.
- TEST EQUIPMENT, CONTROLS, AND ECONOMIZERS FOR PROPER OPERATION, CALIBRATION AND ADJUSTMENT.
- PROVIDE COMPLETE AS-BUILT DRAWINGS FOR ALL HVAC SYSTEMS AND O&M MANUALS FOR ALL EQUIPMENT TO OWNER WITHIN 90 DAYS OF SYSTEM ACCEPTANCE. AS-BUILT DRAWINGS SHALL NOT BEAR THE NAME OF SEAL OF THE ARCHITECT OR ENGINEER. DOCUMENTS SHALL INCLUDE:
 - AS-BUILT DRAWINGS OF ENTIRE INSTALLATION.
 - OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, REQUIRED ROUTINE MAINTENANCE ACTIONS CLEARLY IDENTIFIED.
 - SUBMITTAL DATA STATING EQUIPMENT RATING AND OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
 - NAME, ADDRESS, AND PHONE NUMBER OF AT LEAST ONE QUALIFIED SERVICE AGENCY.



HVAC LEGEND		HVAC ABBREVIATIONS			
SYMBOL	DESCRIPTION	ABBREV.	DEFINITION	ABBREV.	DEFINITION
	EXISTING MECHANICAL CONSTRUCTION (CROSS HATCHED = TO BE REMOVED)	A/C	ABOVE CEILING	L&S	LOUVER AND SCREEN
	CONNECTION TO EXISTING CONSTRUCTION	AD	ACCESS DOOR	LAHJ	LOCAL AUTHORITY HAVING JURISDICTION
	AIR DEVICE TAG	AFF	ABOVE FINISHED FLOOR	LF	LINEAR FEET
	SUPPLY AIR DEVICE	B/F	BELOW FLOOR	MD	MANUAL DAMPER
	RETURN / EXHAUST AIR DEVICE	B/G	BELOW GRADE	MECH	MECHANICAL
	DUCTWORK, SIZED AS SPECIFIED (LINED WHERE NOTED/SPECIFIED)	BB	BASE BUILDING	MFR	MANUFACTURER
	FLEXIBLE DUCT OR CONNECTOR	BD	BACKDRAFT DAMPER	MOD	MOTOR-OPERATED DAMPER
	DUCTWORK, SIZED AS SPECIFIED (LINED WHERE NOTED/SPECIFIED)	BLDG	BUILDING	MTD	MOUNTED
	DUCT OFFSET: (R)RISE, (D)DROP - ARROW SHOWS DIRECTION OF OFFSET.	CD	CONDENSATE DRAIN	N/A	NOT APPLICABLE
	FD = FIRE DAMPER	CF(H/M)	CUBIC FEET PER (HOUR / MINUTE)	NC	NOISE CRITERIA
	FSD = FIRE/SMOKE DAMPER	CLG	CEILING	NIC	NOT IN CONTRACT
	FD = FIRE DAMPER	CONC	CONCRETE	NOM	NOMINAL
	FSD = FIRE/SMOKE DAMPER	CONN	CONNECT(ION)	OA	OUTSIDE AIR
	FD = FIRE DAMPER	CONT	CONTINUATION	OC	ON CENTERS
	FSD = FIRE/SMOKE DAMPER	DIA	DIAMETER	OPNG	OPENING
	FD = FIRE DAMPER	DIV 15/16	DIVISION 15000 (MECH) / 16000 (ELEC)	PLBG	PLUMBING
	FD = FIRE DAMPER	DN	DOWN	RA	RETURN AIR
	FD = FIRE DAMPER	EA	EACH or EXHAUST AIR	SA	SUPPLY AIR
	FD = FIRE DAMPER	ELEC	ELECTRICAL	SF	SQUARE FEET
	FD = FIRE DAMPER	EXH	EXHAUST	SQ	SQUARE
	FD = FIRE DAMPER	EXIST	EXISTING	TBD	TO BE DETERMINED
	FD = FIRE DAMPER	FA	FREE AREA	THRU	THROUGH
	FD = FIRE DAMPER	FACP	FIRE ALARM CONTROL PANEL	T*STAT	THERMOSTAT
	FD = FIRE DAMPER	FD	FIRE DAMPER	TYP	TYPICAL
	FD = FIRE DAMPER	FLEX	FLEXIBLE	UNO	UNLESS NOTED OTHERWISE
	FD = FIRE DAMPER	FLR	FLOOR	WC	WATER COLUMN
	FD = FIRE DAMPER	FP	FIRE PROTECTION	WG	WATER GAUGE
	FD = FIRE DAMPER	FSD	COMBINATION FIRE AND SMOKE DAMPER	XFER	TRANSFER
	(T)HERMOSTAT, (H)UMIDISTAT				

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HVAC DETAILS
H-3.1
 JOB NO. 19022

DATE: OCTOBER 14, 2019 DOCUMENT STATUS: PERMIT SET BID SET FIELD REPORT FINAL FOR CONSTRUCTION