

Jersey Mike's SUBS

SYMBOLS LEGEND:

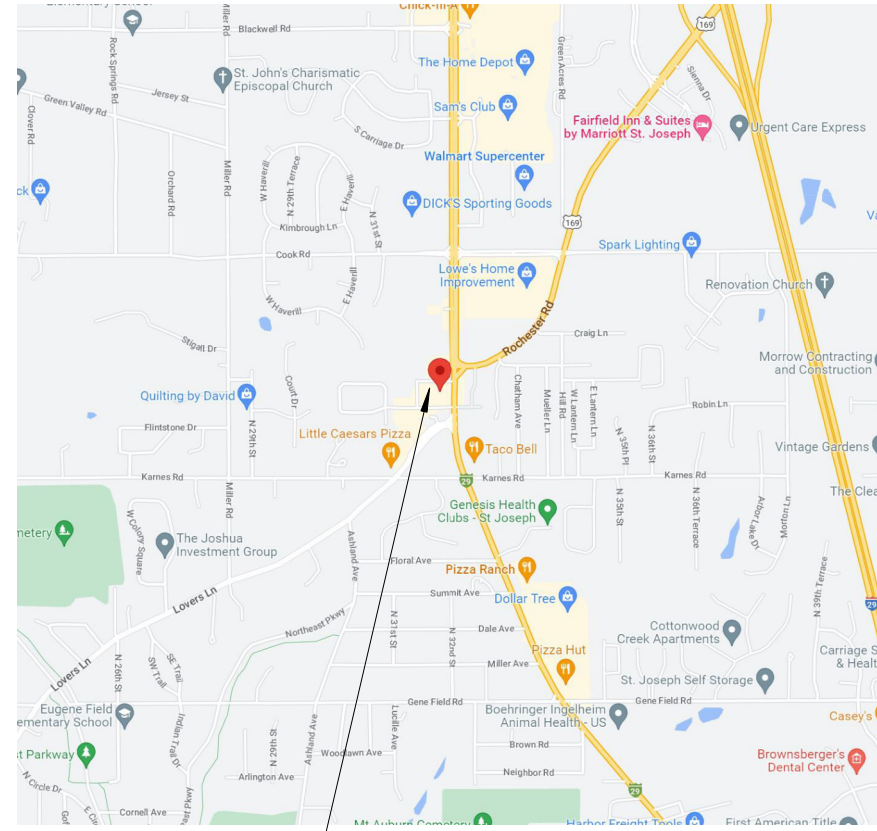
	Project Limit Line		Scope of Project		Key Note No.		Key Note
	ALIGN		Aligned Surfaces		Centerline		Graphic North
	Area Name		Area Tag		Reference Label		North Arrow
	Room Name		Room No.		Room Area		Room Tag
	Door/Room No.		Door Tag		Grid No.		Column Grid Line
	Window Type		Window Type Tag		Level/Datum Name		Level Marker
	Spot Elevation AFF		Spot Elevation		Detail No.		Elevation
	Partition Configuration		Partition Tag		Starting Point @ Center		Dimension Crosshair
	SIM		Reference Label		Highpoint @ Tail		Slope Indicator
	SIM		Reference Label		Change @ Head		Material Change Indicator



ABBREVIATIONS

ABV	Above	EXT	Exterior	OA	Overall
ACT	Acoustical Ceiling Tile	EXTG.	Existing	O.C.	On Center (s)
ACP	Acoustical Ceiling Panel	FA	Fire Alarm	OD	Outside Diameter
ACR	Acrylic Panel	FBO	Furnished by Others	OHD	Overhead
AD	Access Door	FDN	Foundation	OPNG	Opening
ADD	Addendum	F/CONC	Face of Concrete	OPP	Opposite
ADJ	Adjacent	FD	Floor Drain	OPF	Prefabricate (d)
AFF	Above Finished Floor	FF	Finished Floor/Face	PFN	Pre-finished
AHU	Air Handling Unit	F/FIN	Face of Finish	P	Paint
ALT	Alternate	FE	Fire Extinguisher	PLY	Plywood
AL/ALUM	Aluminum	FEC	Fire Extinguisher Cabinet	PTD	Painted
ANOD	Anodized	F/MAS	Face of Masonry	PTN	Partition
APPROX	Approximate	FT	Feet	RD	Road Drain
ARCH	Architect (ural)	FTG	Footing	REF	Reference
B.D.	Bottom of Deck	FURR	Furred (ing)	REFL	Reflect (ed),(ive),(or)
BEL	Below	FoB	Face of Brick	REINF	Reinforcement
BLDG	Building	GA	Gage, Gauge	REOD	Required
BLK/G	Block (ing)	GALV	Galvanized	REV	Revision (s), Revised
BRK	Brick	GB	Grab Bar	RFG	Roofing
BS	Both Sides	GC	General Contractor (or)	RM	Room
CG	Corner Guard	GL	Glass, Glazing	RO	Rough Opening
CJ	Construction Joint	GWB	Gypsum Wall Board	S	Sink
CLG	Ceiling	GYPIBD	Gypsum (Board)	SC	Sealed Concrete
CLR	Clear (ance)	HB	Hose Bibb	SCH	Schedule
CMU	Concrete Masonry Unit	HC	Hollow Core	SQ	Square
CO	Clean Out	HM	Hollow Metal	SS	Stainless Steel
CPT	Carpet (ing)	HORIZ	Horizontal	STL	Steel
COL	Column	HT	Height	STRUCT	Structural
COMP	Compress (ed),(ion),(ible)	HTG	Heating	SUSP	Suspended
CONC	Concrete	INSUL	Insulate (d), (ion)	T.O.	Top of
CONN	Connection	INT	Interior	TOL	Tolerance
CONST	Construction	KP	Kick plate	T.O.S.	Top of Steel
CONT	Continuous or Continue	LAV	Lavatory	TRAN	Transition
CORR	Corridor	LVT	Luxury Vinyl Tile	TIS	Top of Slab
DEMO	Demolish, Demolition	MAS	Masonry	T.W.	Top of Wall
DET	Detail	MAT	Material (s)	TYP	Typical
DIA	Diameter	MAX	Maximum	UNF	Unfinished
DIM	Dimension	MECH	Mechanic (al)	UON	Unless Otherwise Noted
DR	Door	MED	Medium	UR	Urinal
DS	Downspout	MTL	Metal	VCT	Vinyl Composition Tile
DWG	Drawing	MFR	Manufacture (er)	VERT	Vertical
EA	Each	MIN	Minimum	VIF	Verify In Field
EJ	Expansion Joint	MIR	Mirror	VIN	Vinyl
EL	Elevation	MISC	Miscellaneous	VNT	Vinyl Tile
ELEC	Electric (al)	MO	Masonry Opening	W	With
EMERG	Emergency	N/A	Not Applicable	WB	Wall Base
EQ	Equal	NIC	Not In Contact	WC	Wall Covering
EQUIP	Equipment	NOM	Nominal	WD	Wood
EST	Estimate	NTS	Not To Scale		

PROJECT LOCATION:



PROJECT GENERAL NOTES:

- THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND ANY APPLICABLE CODES BY THE AGENT INVOLVED WITH THE GOVERNING AGENCY HAVING JURISDICTION. IT IS UNDERSTOOD THAT THE "FIELD INSPECTOR" FOR SUCH AGENCY HAS FINAL AUTHORITY TO APPROVE/DISAPPROVE PROJECT CONSTRUCTION AND CORRECTNESS OF ALL CODE RELATED ITEMS.
- EACH SUBCONTRACTOR IS CONSIDERED A SPECIALIST IN THEIR RESPECTIVE FIELD OR TRADE AND SHALL NOTIFY, PRIOR, TO PERFORMANCE OF THE WORK, THE GENERAL CONTRACTOR AND THE ARCHITECT OF ANY WORK CALLED OUT IN THE DRAWINGS WHICH CANNOT BE FULLY GUARANTEED OR CONSTRUCTED AS DESIGNED OR DETAILED.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING THE WORK AND IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL OPENINGS, BASES, AND SPECIAL PROVISIONS REQUIRED FOR EQUIPMENT, DUCTS, PIPING, CONDUITS, FINISH HARDWARE, ETC. AND IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
- GENERAL CONTRACTOR TO COORDINATE ARCHITECTURAL DRAWINGS WITH MECHANICAL AND ELECTRICAL PLUMBING, CIVIL AND LANDSCAPE DRAWINGS.
- GENERAL CONTRACTOR TO MAINTAIN ALL EXISTING FIRE RATINGS DURING DEMOLITION AND CONSTRUCTION.
- GENERAL CONTRACTOR SHALL NOT SCALE OFF DRAWINGS - CONTACT ARCHITECT FOR ALL COORDINATION ISSUES.
- GENERAL CONTRACTOR TO MAINTAIN UNOBSTRUCTED ACCESS TO ALL EXITS DURING DEMOLITION AND CONSTRUCTION.
- WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, DETAILING SHALL BE THE SAME AS FOR OTHER SIMILAR FIRST CLASS WORK FOR THE TRADE INVOLVED. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY ALTERNATE NON-STANDARD OR UNTESTED METHOD(S) PROPOSED.
- EXTERIOR SIGNAGE IS NOT IN THE SCOPE OF THIS BUILDING PERMIT.
- BIDDING CONTRACTOR TO VISIT SPACE PRIOR TO COMPLETING BID.

KEY PLAN:



BUILDING CODE SUMMARY:

PROJECT SUMMARY	
TENANT FITOUT OF A NEW MULTI-TENANT BUILDING	
SEE SHEET A0.3 FOR EGRESS PLAN	
BUILDING DATA:	CITY OF ST. JOSEPH
BUILDING CODE AGENCY/JURISDICTION:	2018 International Building Code 2018 International Existing Building Code 2017 National Electrical Code 2018 International Fire Code 2018 International Fuel and Gas Code 2018 International Mechanical Code 2018 Uniform Plumbing Code 1999 Food Code (FDA)
BUILDING CODE:	

TYPE OF WORK:	INTERIOR FITOUT
FIRE SUPPRESSION:	NON-SPRINKLERED
EXISTING CONSTRUCTION TYPE:	V-B
TOTAL NUMBER OF FLOORS:	ONE (1)
NUMBER OF FLOORS ABOVE GRADE:	ONE (1)
USE/OCCUPANCY GROUP	A2 (ASSEMBLY UNCONCENTRATED)

SHEET INDEX:

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M3.3	HOOD DRAWING	
M3.4	HOOD DRAWING	
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PLUMBING		
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P2.0	PLUMBING CALCULATIONS	
P3.0	PLUMBING SPECIFICATIONS	
REFERENCE		
R1.1	REFERENCE FURNITURE PLAN	
Grand total: 33		

ISSUE FOR PERMIT

PROJECT INFORMATION

Project #	43423-M001
Issue Date	2/23/2023
Scale	As indicated
Drawn by	UG
Checked by	AM/JM



JERSEY MIKES - ST. JOSEPH
3508 N. BELT HIGHWAY
ST. JOSEPH, MO 64506

#	Description	Date
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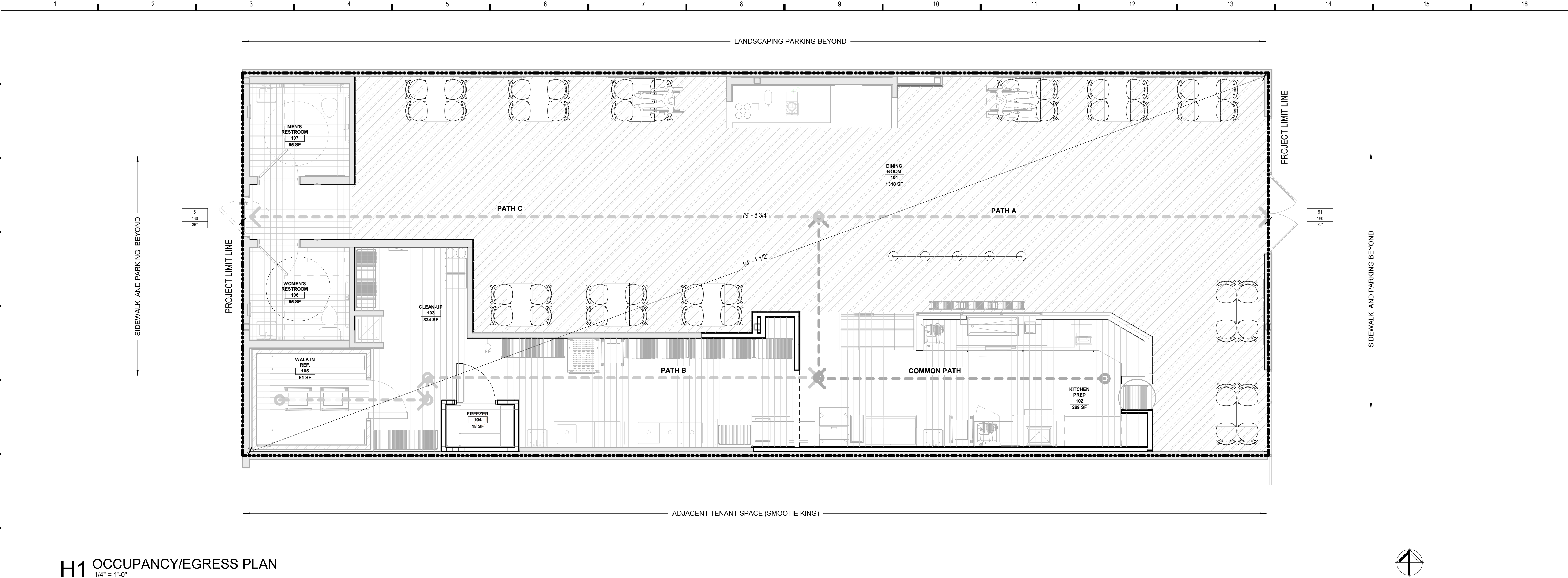


ISSUE FOR PERMIT

OUTLINE SPECIFICATION

Project #	43423-MO01
Issue Date	2/23/2023
Scale	1" = 1'-0"
Drawn by	UG
Checked by	AM/JM

A0.2



EXIT REQUIREMENTS:

REQUIRED NUMBER OF EXITS PER CODE: NUMBER OF EXITS SHOWN ON PLANS:	2 2
REQUIRED DISTANCE BETWEEN EXIT DOORS PER CODE: ACTUAL DISTANCE BETWEEN EXIT DOORS:	84'-1 1/2"/2=42'-3/4" 79'-8 3/4"
MAXIMUM DEAD END CORRIDOR DEPTH:	20'

OCCUPANCY DATA:

Occupancy Schedule					
RM #	ROOM NAME	AREA	OCCUPANCY	LOAD FACTOR	OCCUPANT LOAD
101	DINING ROOM	1318 SF	ASSEMBLY UNCONCENTRATED	15	89
102	KITCHEN PREP	269 SF	COMMERCIAL KITCHEN	200	2
103	CLEAN-UP	324 SF	COMMERCIAL KITCHEN	200	2
104	FREEZER	18 SF	STORAGE	300	1
105	WALK IN REF.	61 SF	STORAGE	300	1
106	WOMEN'S RESTROOM	55 SF	UNOCCUPIED	0	0
107	MEN'S RESTROOM	55 SF	UNOCCUPIED	0	0
108	HALL	34 SF	UNOCCUPIED	0	0
Grand total: 8		2133 SF			95
NOTE: AREA SQUARE FOOTAGE SHOWN ARE FOR THE BUILDING CODE OFFICIAL'S USE AND REVIEW ONLY. AREA CALCULATIONS SHOWN NOT RELATED TO TENANT LEASING INFORMATION.					

EXIT ACCESS TRAVEL DISTANCES

Path ID	Common Path Distance	Allowable Common Path	Actual Travel Distance	Allowable Travel Distance
COMMON PATH	35' - 0"	75' - 0"	35' - 0"	200' - 0"
PATH A	35' - 0"	75' - 0"	35' - 0"	200' - 0"
PATH B	43' - 8"	75' - 0"	43' - 8"	200' - 0"
PATH C	44' - 3"	75' - 0"	44' - 3"	200' - 0"

LEGEND

36

180

36"

→

→

→

ACTUAL EGRESS LOAD

MAX EGRESS CAPACITY

DOOR WIDTH

COMMON PATH PORTION OF TRAVEL PATH

TRAVEL PATH

DOOR TAG

ASSEMBLY UNCONCENTRATED

COMMERCIAL KITCHEN

STORAGE

UNOCCUPIED

SHEET NOTES:

A) REFERENCE COVER SHEET FOR BUILDING CODE SUMMARY							
PLUMBING FIXTURE REQUIREMENTS							
NAME	WATERCLOSETS		URINALS	LAVATORIES		DRINKING FOUNTAINS	
	MALE	FEMALE		MALE	FEMALE	REG.	ACC.
RESTROOM	1	1	0	1	1	*0	*0
*PER SECTION 410 OF THE INTERNATIONAL PLUMBING CODE: WHERE WATER IS SERVED IN RESTAURANTS, DRINKING FOUNTAINS SHALL NOT BE REQUIRED							

GENERAL DOOR AND HARDWARE NOTES:

- A) HAND ACTIVATED DOOR OPENING HARDWARE IS TO BE MOUNTED 30" - 34" ABOVE THE FLOOR AND BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE.

B) LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PUSH/PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED AND APPROVED FOR PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPERATING HARDWARE.

C) MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS OF FORCE FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. SUCH FORCE BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHERE FIRE DOORS ARE REQUIRED, THE MAXIMUM FORCE REQUIRED TO OPERATE THE DOOR MAY BE INCREASED TO 15 POUNDS.
- D) THE BOTTOM 10" OF ALL NON-AUTOMATED HINGED DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.

E) EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3'-0" IN WIDTH NOT LESS THAN AND 6'-8" IN HEIGHT. ALL DOORS SHALL BE CAPEABLE OF OPENING A MINIMUM OF NINETY DEGREES AND SHALL BE MOUNTED SUCH THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32" WITH THE DOOR AT NINETY DEGREES FROM THE CLOSED POSITION. ONE DOOR OF A PAIR OF DOORS SHALL MEET THE MINIMUM WIDTH REQUIREMENTS.

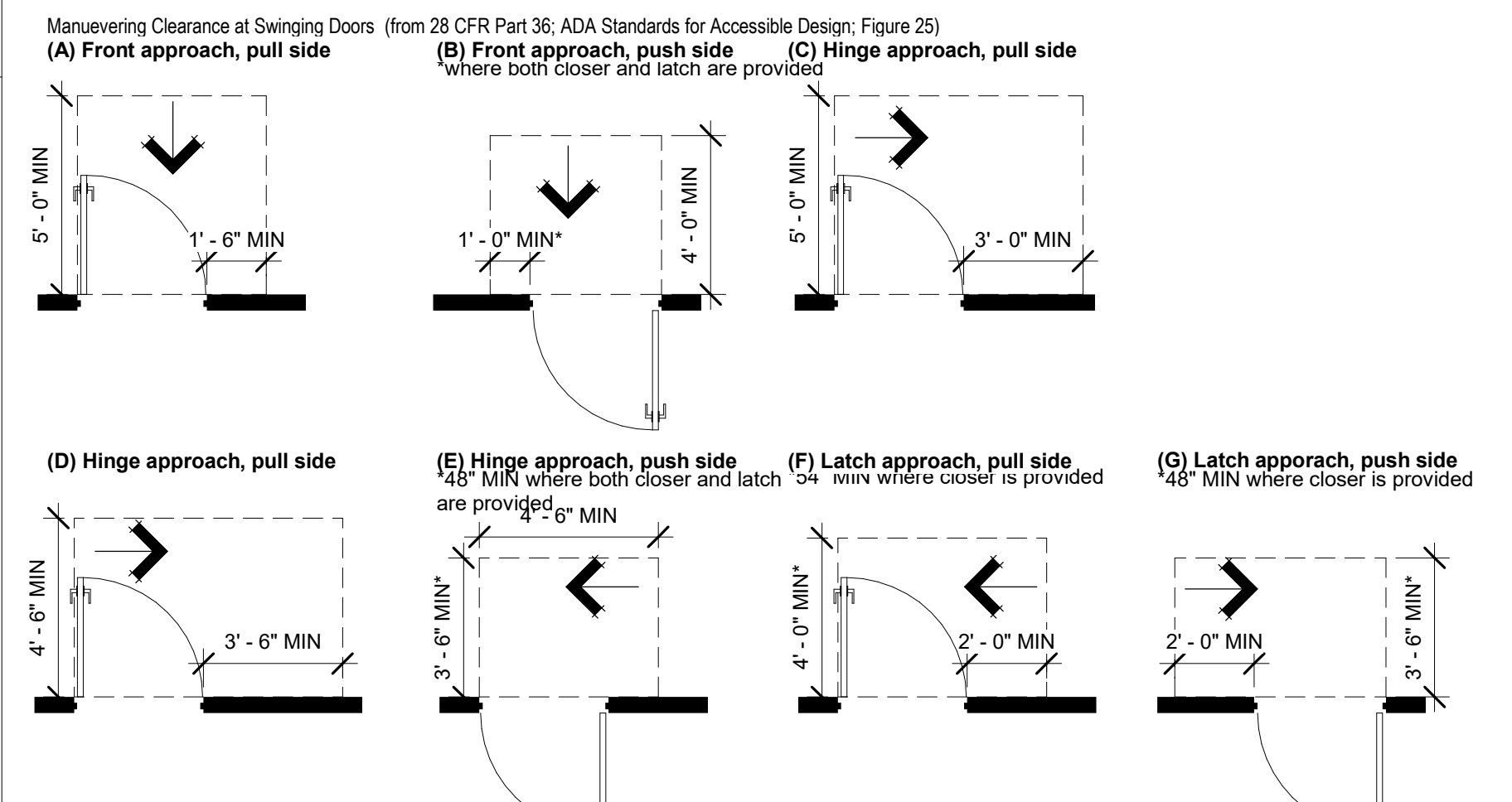
F) MAXIMUM HEIGHT OF THRESHOLD TO BE 1/2". MAXIMUM VERTICAL RISE AT EDGE IS 1/4" WITH A MAXIMUM BEVEL OF 22 DEGREES.

G) ALL REUSED DOORS AND HARDWARE TO BE FULLY INSPECTED FOR SOUNDNESS AND FUNCTION. ANY REUSEABLE COMPONENT SHALL BE CLEANED, OILED, PATCHED, REFINISHED AS REQUIRED PRIOR TO REINSTALLATION IN NEW WORK.
- H) GENERAL CONTRACTOR AND HARDWARE SUPPLIER SHALL BE RESPONSIBLE FOR COODINATING ALL LOCKING, LATCHING, CLOSURE AND KEYING REQUIREMENTS FOR TENANT USE.

J) IT SHALL BE THE SPECIFIC DUTY AND RESPONSIBILITY OF THE FINISH HARDWARE SUPPLIER TO EXAMINE DRAWINGS AND SCHEDULES AND FURNISH PROPER HARDWARE FOR ALL NEW AND/OR MODIFIED OPENINGS AS REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL SUBMIT A HARDWARE SCHEDULE TO ARCHITECT FOR REVIEW AND APPROVAL OF TYPES AND STANDARDS OF QUALITY PROIR TO ORDERING.

K) MATCH EXISTING OPENING WIDTH, HEAD & JAMB GWB CONSTRUCTION.

L) ALL NEW DOORS TO HAVE 1/4" MAXIMUM UNDERCUT U.O.N.



JERSEY MIKES - ST. JOSEPH

3608 N. BELT HIGHWAY
ST. JOSEPH, MO 64506

#	Description	Date

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02/23/2023

ISSUE FOR PERMIT

OCCUPANCY AND EGRESS PLAN

Project #	43423-M001
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Checked by	AM/JM

A0.3

206 ACCESSIBLE ROUTES

206.2.5 Restaurants and Cafeterias. In restaurants and cafeterias, an accessible route shall be provided to all dining areas, including raised or sunken dining areas, and outdoor dining areas.

EXCEPTIONS:

1. In buildings or facilities not required to provide an accessible route between stories, an accessible route shall not be required to a mezzanine dining area where the mezzanine contains less than 25 percent of the total combined area for seating and dining and where the same decor and services are provided in the accessible area.
2. In alterations, an accessible route shall not be required to existing raised or sunken dining areas, or to all parts of existing outdoor dining areas where the same services and decor are provided in an accessible space usable by the public and not restricted to use by people with disabilities.
3. In sports facilities, tiered dining areas providing seating required to comply with 221 shall be required to have accessible routes serving at least 25 percent of the dining area provided that accessible routes serve seating complying with 221 and each tier is provided with the same services.

Advisory 206.2.5 Restaurants and Cafeterias Exception 2. Examples of "same services" include, but are not limited to, bar service, rooms having smoking and non-smoking sections, lotto and other table games, carry-out, and buffet service. Examples of "same decor" include, but are not limited to, seating at or near windows and railings with views, areas designed with a certain theme, party and banquet rooms, and rooms where entertainment is provided.

213 TOILET FACILITIES AND BATHING FACILITIES

213.1 General. Where toilet facilities and bathing facilities are provided, they shall comply with 213. Where toilet facilities and bathing facilities are provided in facilities permitted by 206.2.3 Exceptions 1 and 2 not to connect stories by an accessible route, toilet facilities and bathing facilities shall be provided on a story connected by an accessible route to an accessible entrance.

213.2 Toilet Rooms and Bathing Rooms. Where toilet rooms are provided, each toilet room shall comply with 603. Where bathing rooms are provided, each bathing room shall comply with 603.

EXCEPTIONS:

1. In alterations where it is technically infeasible to comply with 603, altering existing toilet or bathing rooms shall not be required where a single unisex toilet room or bathing room complying with 213.2.1 is provided and located in the same area and on the same floor as existing inaccessible toilet or bathing rooms.
2. Where exceptions for alterations to qualified historic buildings or facilities are permitted by 202.5, no fewer than one toilet room for each sex complying with 603 or one unisex toilet room complying with 213.2.1 shall be provided.
3. Where multiple single user portable toilet or bathing units are clustered at a single location, no more than 5 percent of the toilet units and bathing units at each cluster shall be required to comply with 603. Portable toilet units and bathing units complying with 603 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1.
4. Where multiple single user toilet rooms are clustered at a single location, no more than 50 percent of the single user toilet rooms for each use at each cluster shall be required to comply with 603.

Advisory 213.2 Toilet Rooms and Bathing Rooms. These requirements allow the use of unisex (or single-user) toilet rooms in alterations when technical infeasibility can be demonstrated. Unisex toilet rooms benefit people who use opposite sex personal care assistants. For this reason, it is advantageous to install unisex toilet rooms in addition to accessible single-sex toilet rooms in new facilities.

Advisory 213.2 Toilet Rooms and Bathing Rooms Exceptions 3 and 4. A "cluster" is a group of toilet rooms proximate to one another. Generally, toilet rooms in a cluster are within sight of, or adjacent to, one another.

213.2.1 Unisex (Single-Use or Family) Toilet and Unisex Bathing Rooms. Unisex toilet rooms shall contain not more than one lavatory, and two water closets without urinals or one water closet and one urinal. Unisex bathing rooms shall contain one shower or one shower and one bathtub, one lavatory, and one water closet. Doors to unisex toilet rooms and unisex bathing rooms shall have privacy latches.

213.3 Plumbing Fixtures and Accessories. Plumbing fixtures and accessories provided in a toilet room or bathing room required to comply with 213.2 shall comply with 213.3.

213.3.1 Toilet Compartments. Where toilet compartments are provided, at least one toilet compartment shall comply with 604.8.1. In addition to the compartment required to comply with 604.8.1, at least one compartment shall comply with 604.8.2 where six or more toilet compartments are provided, or where the combination of urinals and water closets totals six or more fixtures.

Advisory 213.3.1 Toilet Compartments. A toilet compartment is a partitioned space that is located within a toilet room, and that normally contains no more than one water closet. A toilet compartment may also contain a lavatory. A lavatory is a sink provided for hand washing. Full-height partitions and door assemblies can comprise toilet compartments where the minimum required spaces are provided within the compartment.

213.3.2 Water Closets. Where water closets are provided, at least one shall comply with 604.

213.3.3 Urinals. Where more than one urinal is provided, at least one shall comply with 605.

213.3.4 Lavatories. Where lavatories are provided, at least one shall comply with 606 and shall not be located in a toilet compartment.

213.3.5 Mirrors. Where mirrors are provided, at least one shall comply with 603.3. *Accessible mirrors shall be provided at locations that are consistent with the location of other mirrors in the same room.*

213.3.6 Bathing Facilities. Where bathtubs or showers are provided, at least one bathtub complying with 607 or at least one shower complying with 608 shall be provided.

213.3.7 Coat Hooks and Shelves. Where coat hooks or shelves are provided in toilet rooms without toilet compartments, at least one of each type shall comply with 603.4. Where coat hooks or shelves are provided in toilet compartments, at least one of each type complying with 604.8.3 shall be provided in toilet compartments required to comply with 213.3.1. Where coat hooks or shelves are provided in bathing facilities, at least one of each type complying with 603.4 shall serve fixtures required to comply with 213.3.6.

216 SIGNS

216.2 Designations. Interior and exterior signs identifying permanent rooms and spaces shall comply with 703.1, 703.2, and 703.5. Where pictograms are provided as designations of permanent interior rooms and spaces, the pictograms shall comply with 703.6 and shall have text descriptors complying with 703.2 and 703.5.

226 DINING SURFACE AND WORK SURFACES

226.1 General. Where dining surfaces are provided for the consumption of food or drink, at least 5 percent of the seating spaces and standing spaces at the dining surfaces shall comply with 902. In addition, where work surfaces are provided for use by other than employees, at least 5 percent shall comply with 902.

EXCEPTIONS:

1. Sales counters and service counters shall not be required to comply with 902.
2. Check writing surfaces provided at check-out aisles not required to comply with 904.3 shall not be required to comply with 902.

Advisory 226.1 General. In facilities covered by the ADA, this requirement does not apply to work surfaces used only by employees. *However, employers should consider work surfaces that are flexible and permit installation at variable heights and clearances.*

226.2 Dispersion. Dining surfaces and work surfaces required to comply with 902 shall be dispersed throughout the space or facility containing dining surfaces and work surfaces.

302 FLOOR OR GROUND SURFACE

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

EXCEPTIONS:

1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.
2. Areas of sport activity shall not be required to comply with 302.

Advisory 302.1 General. A stable surface is one that remains unchanged by contaminants or applied force, so that when the contaminant or force is removed, the surface returns to its original condition. A firm surface resists deformation by either indentations or particles moving on its surface. A slip-resistant surface provides sufficient frictional counterforce to the forces exerted in walking to permit safe ambulation.

304 TURNING SPACE

304.1 General. Turning space shall comply with 304.

304.2 Floor or Ground Surfaces. Floor or ground surfaces of a turning space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

Advisory 304.2 Floor or Ground Surface Exception. As used in this section, the phrase "changes in level" refers to surfaces with slopes and to surfaces with abrupt rise exceeding that permitted in Section 303.3. Such changes in level are prohibited in required clear floor and ground spaces, turning spaces, and in similar spaces where people using wheelchairs and other mobility devices must park their mobility aids such as in wheelchair spaces, or maneuver to use elements such as at doors, fixtures, and telephones. The exception permits slopes not steeper than 1:48.

304.3 Size. Turning space shall comply with 304.3.1 or 304.3.2.

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

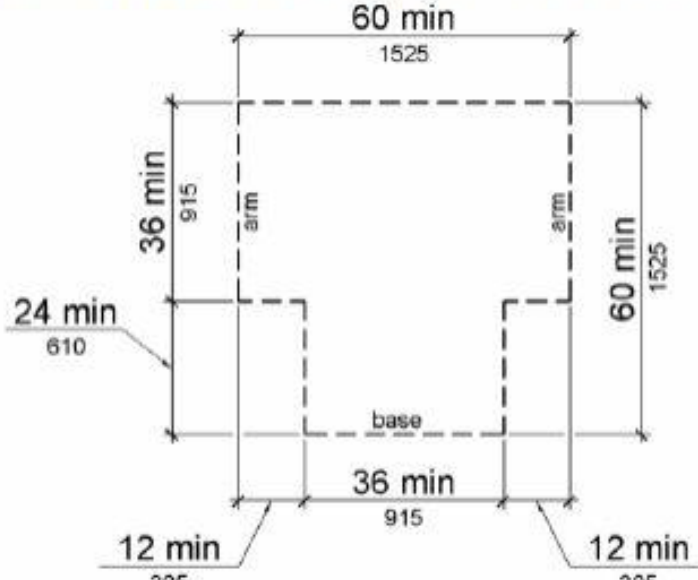


Figure 304.3.2 T-Shaped Turning Space

304.4 Door Swing. Doors shall be permitted to swing into turning spaces.

307 PROTRUDING OBJECTS

307.1 General. Protruding objects shall comply with 307.

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

Advisory 307.2 Protrusion Limits. When a cane is used and the element is in the detectable range, it gives a person sufficient time to detect the element with the cane before there is body contact. Elements located on circulation paths, including operable elements, must comply with requirements for protruding objects. For example, awnings and their supporting structures cannot reduce the minimum required vertical clearance. Similarly, casement windows, when open, cannot encroach more than 4 inches (100 mm) into circulation paths above 27 inches (685 mm).

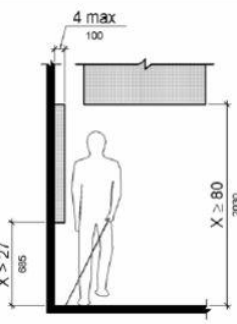


Figure 307.2 Limits of Protruding Objects

308 REACH RANGES

308.1 General. Reach ranges shall comply with 308.

Advisory 308.1 General. The following table provides guidance on reach ranges for children according to age where building elements such as coat hooks, lockers, or operable parts are designed for use primarily by children. These dimensions apply to either forward or side reaches. Accessible elements and operable parts designed for adult use or children over age 12 can be located outside these ranges but must be within the adult reach ranges required by 308.

Children's Reach Ranges			
Forward or Side Reach	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
High (maximum)	36 in (915 mm)	40 in (1015 mm)	44 in (1120 mm)
Low (minimum)	20 in (510 mm)	18 in (455 mm)	16 in (405 mm)

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

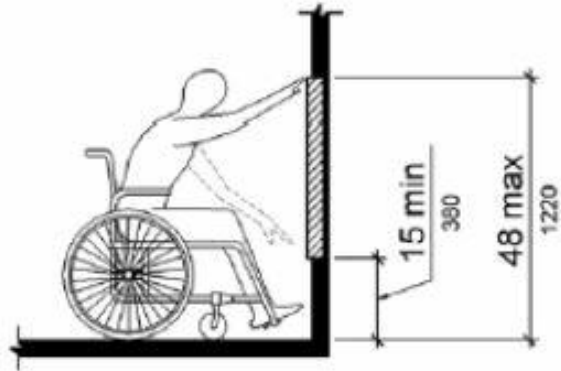


Figure 308.2.1 Unobstructed Forward Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

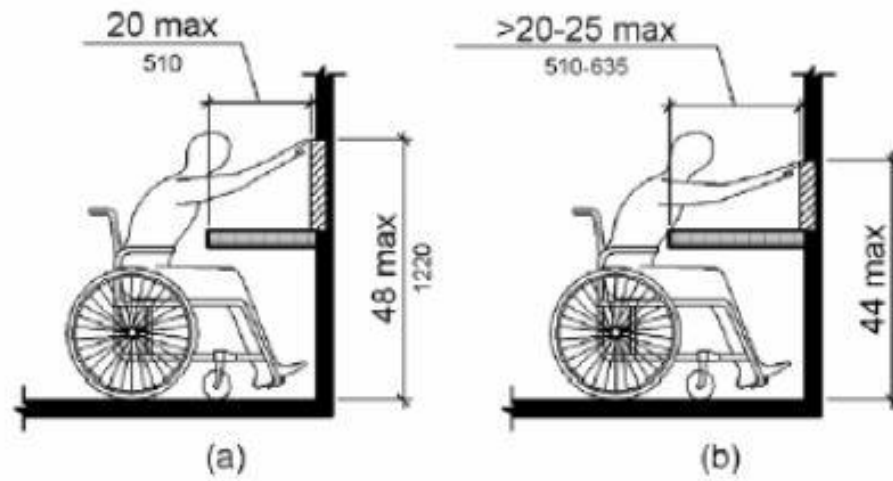


Figure 308.2.2 Obstructed High Forward Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

EXCEPTIONS:

1. An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10 inches (255 mm) maximum.
2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

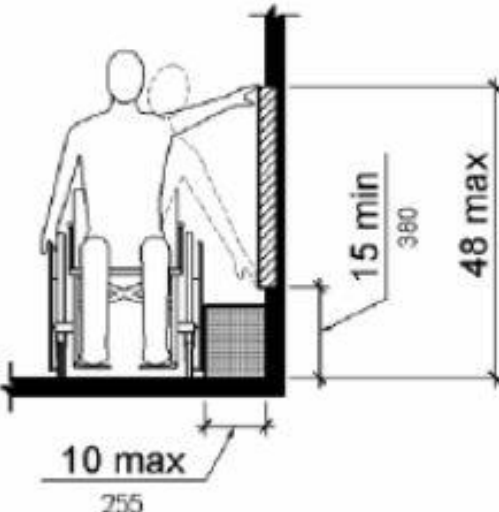


Figure 308.3.1 Unobstructed Side Reach

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

EXCEPTIONS:

1. The top of washing machines and clothes dryers shall be permitted to be 36 inches (915 mm) maximum above the finish floor.
2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

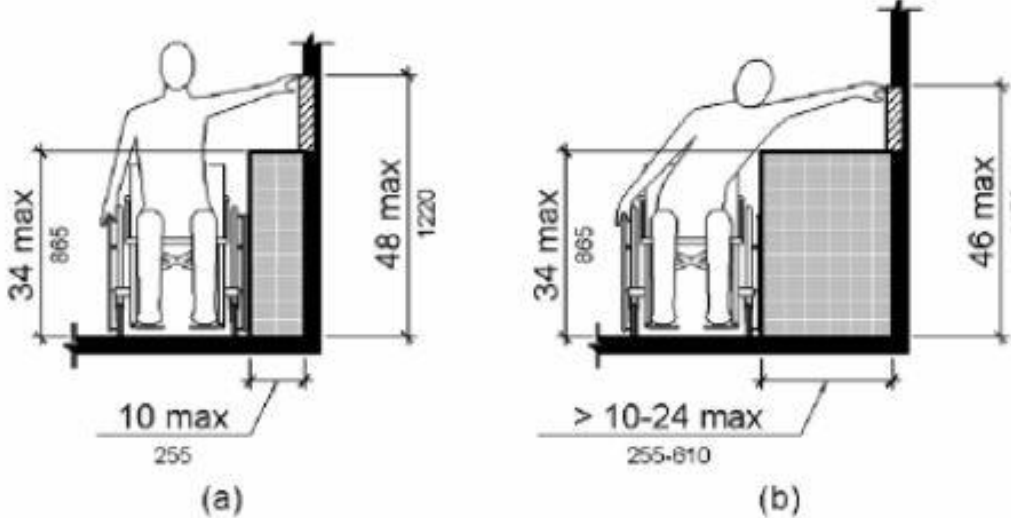


Figure 308.3.2 Obstructed High Side Reach

309 OPERABLE PARTS

309.1 General. Operable parts shall comply with 309.

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

EXCEPTION: Gas pump nozzles shall not be required to provide operable parts that have an activating force of 5 pounds (22.2 N) maximum.

403 WALKING SURFACES

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 60 inches (1525 mm) minimum compliance with 403.5.2 shall not be required.

404 DOORS, DOORWAYS, AND GATES

Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

EXCEPTIONS:

1. Existing locks shall be permitted in any location at existing glazed doors without stiles, existing overhead rolling doors or grilles, and similar existing doors or grilles that are designed with locks that are activated only at the top or bottom rail.
2. Access gates in barrier walls and fences protecting pools, spas, and hot tubs shall be permitted to have operable parts of the release of latch on self-latching devices at 54 inches (1370 mm) maximum above the finish floor or ground provided the self-latching devices are not also self-locking devices and operated by means of a key, electronic opener, or integral combination lock.

Advisory 404.2.7 Door and Gate Hardware. Door hardware that can be operated with a closed fist or a loose grip accommodates the greatest range of users. Hardware that requires simultaneous hand and finger movements require greater dexterity and coordination, and is not recommended.

404.2.8 Closing Speed. Door and gate closing speed shall comply with 404.2.8.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.
2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

Advisory 404.2.9 Door and Gate Opening Force. The maximum force pertains to the continuous application of force necessary to fully open a door, not the initial force needed to overcome the inertia of the door. It does not apply to the force required to retract bolts or to disengage other devices used to keep the door in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

EXCEPTIONS:

1. Sliding doors shall not be required to comply with 404.2.10.
2. Tempered glass doors without stiles and having a bottom rail or shoe with the top leading edge tapered at 60 degrees minimum from the horizontal shall not be required to meet the 10 inch (255 mm) bottom smooth surface height requirement.
3. Doors and gates that do not extend to within 10 inches (255 mm) of the finish floor or ground shall not be required to comply with 404.2.10.
4. Existing doors and gates without smooth surfaces within 10 inches (255 mm) of the finish floor or ground shall not be required to provide smooth surfaces complying with 404.2.10 provided that if added kick plates are installed, cavities created by such kick plates are capped.

#	Description	Date
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02/23/2023

ISSUE FOR PERMIT

ACCESSIBILITY STANDARDS

Project #	43423-M001
Issue Date	2/23/2023
Scale	
Drawn by	UG
Checked by	AM/JM

A0.4

404 DOORS, DOORWAYS, AND GATES

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.11.

404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.1 Clear Width. Doorways shall provide a clear opening of 32 inches (815 mm) minimum in power-on and power-off mode. The minimum clear width for automatic door systems in a doorway shall be based on the clear opening provided by all leaves in the open position.

603 TOILET AND BATHING ROOMS

603.1 General. Toilet and bathing rooms shall comply with 603.

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

EXCEPTIONS:

- Doors to a toilet room or bathing room for a single occupant accessed only through a private office and not for common use or public use shall be permitted to swing into the clear floor space or clearance provided the swing of the door can be reversed to comply with 603.2.3.
- Where the toilet room or bathing room is for individual use and a clear floor space complying with 305.3 is provided within the room beyond the arc of the door swing, doors shall be permitted to swing into the clear floor space or clearance required for any fixture.

Advisory 603.2.3 Door Swing Exception 1. At the time the door is installed, and if the door swing is reversed in the future, the door must meet all the requirements specified in 404. Additionally, the door swing cannot reduce the required width of an accessible route. Also, avoid violating other building or life safety codes when the door swing is reversed.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

Advisory 603.3 Mirrors. A single full-length mirror can accommodate a greater number of people, including children. In order for mirrors to be usable by people who are ambulatory and people who use wheelchairs, the top edge of mirrors should be 74 inches (1880 mm) minimum from the floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604 WATER CLOSETS AND TOILET COMPARTMENTS

604.1 General. Water closets and toilet compartments shall comply with 604.2 through 604.8.

EXCEPTION: Water closets and toilet compartments for children's use shall be permitted to comply with 604.9.

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

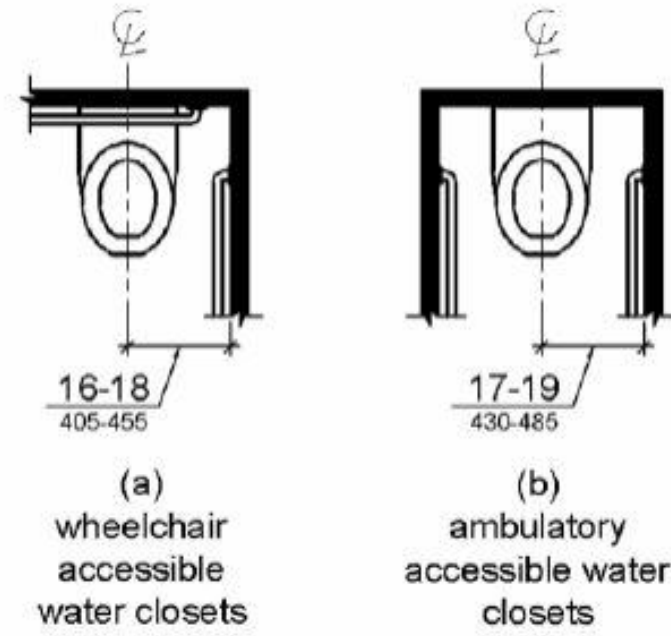


Figure 604.2 Water Closet Location

604.3 Clearance. Clearances around water closets and in toilet compartments shall comply with 604.3.

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

604 WATER CLOSETS AND TOILET COMPARTMENTS

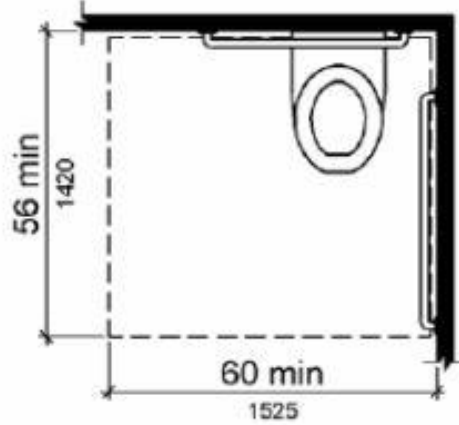


Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

EXCEPTION: In residential dwelling units, a lavatory complying with 606 shall be permitted on the rear wall 18 inches (455 mm) minimum from the water closet centerline where the clearance at the water closet is 66 inches (1675 mm) minimum measured perpendicular from the rear wall.

Advisory 604.3.2 Overlap. When the door to the toilet room is placed directly in front of the water closet, the water closet cannot overlap the required maneuvering clearance for the door inside the room.

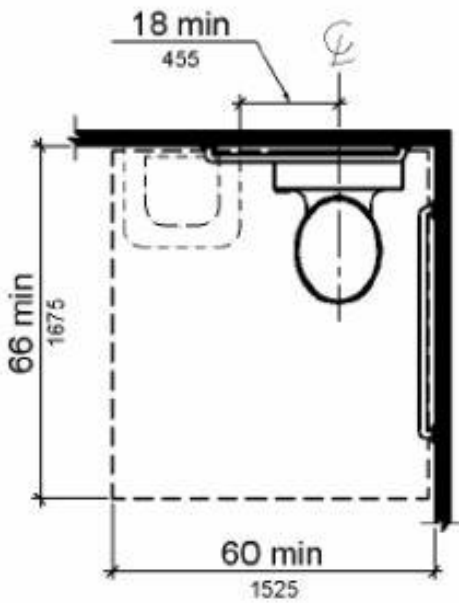


Figure 604.3.2 (Exception) Overlap of Water Closet Clearance in Residential Dwelling Units

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

EXCEPTIONS:

- A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall be permitted to comply with 604.4.
- In residential dwelling units, the height of water closets shall be permitted to be 15 inches (380 mm) minimum and 19 inches (485 mm) maximum above the finish floor measured to the top of the seat.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

EXCEPTIONS:

- Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
- In residential dwelling units, grab bars shall not be required to be installed in toilet or bathrooms provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
- In detention or correction facilities, grab bars shall not be required to be installed in housing or holding cells that are specially designed without protrusions for purposes of suicide prevention.

Advisory 604.5 Grab Bars Exception 2. Reinforcement must be sufficient to permit the installation of rear and side wall grab bars that fully meet all accessibility requirements including, but not limited to, required length, installation height, and structural strength.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

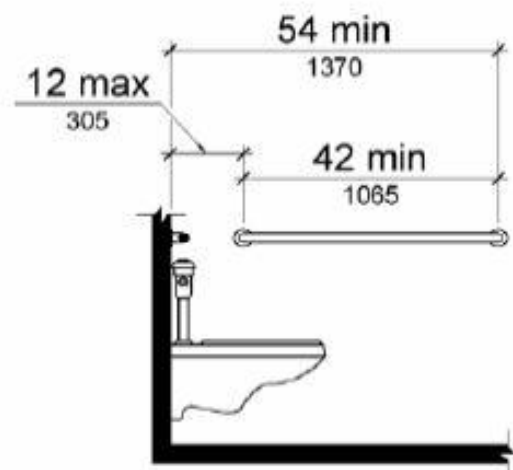


Figure 604.5.1 Side Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

EXCEPTIONS:

- The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.
- Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

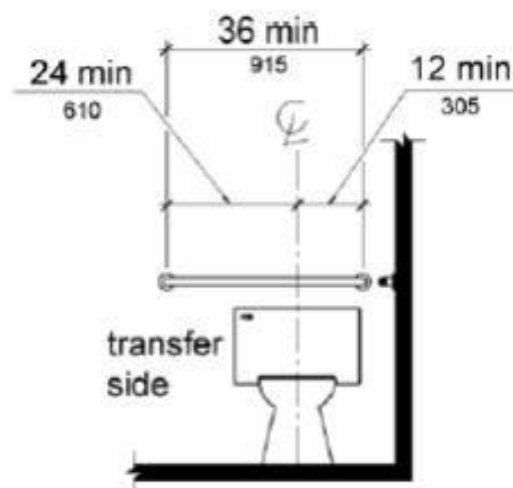


Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

Advisory 604.6 Flush Controls. If plumbing valves are located directly behind the toilet seat, flush valves and related plumbing can cause injury or imbalance when a person leans back against them. To prevent causing injury or imbalance, the plumbing can be located behind walls or to the side of the toilet; or if approved by the local authority having jurisdiction, provide a toilet seat lid.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

Advisory 604.7 Dispensers. If toilet paper dispensers are installed above the side wall grab bar, the outlet of the toilet paper dispenser must be 48 inches (1220 mm) maximum above the finish floor and the top of the gripping surface of the grab bar must be 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

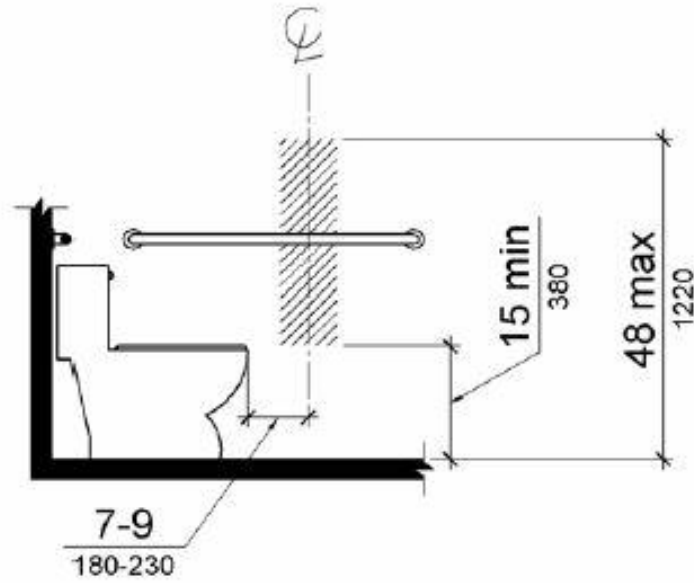


Figure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

Advisory 604.8.1.1 Size. The minimum space required in toilet compartments is provided so that a person using a wheelchair can maneuver into position at the water closet. This space cannot be obstructed by baby changing tables or other fixtures or conveniences, except as specified at 604.3.2 (Overlap). If toilet compartments are to be used to house fixtures other than those associated with the water closet, they must be designed to exceed the minimum space requirements. Convenience fixtures such as baby changing tables must also be accessible to people with disabilities as well as to other users. Toilet compartments that are designed to meet, and not exceed, the minimum space requirements may not provide adequate space for maneuvering into position at a baby changing table.

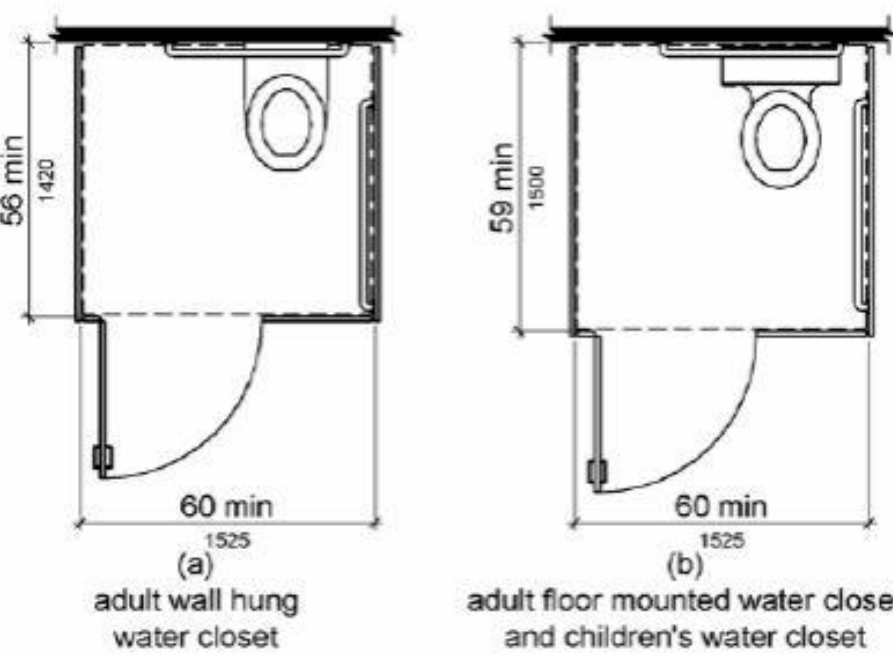


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

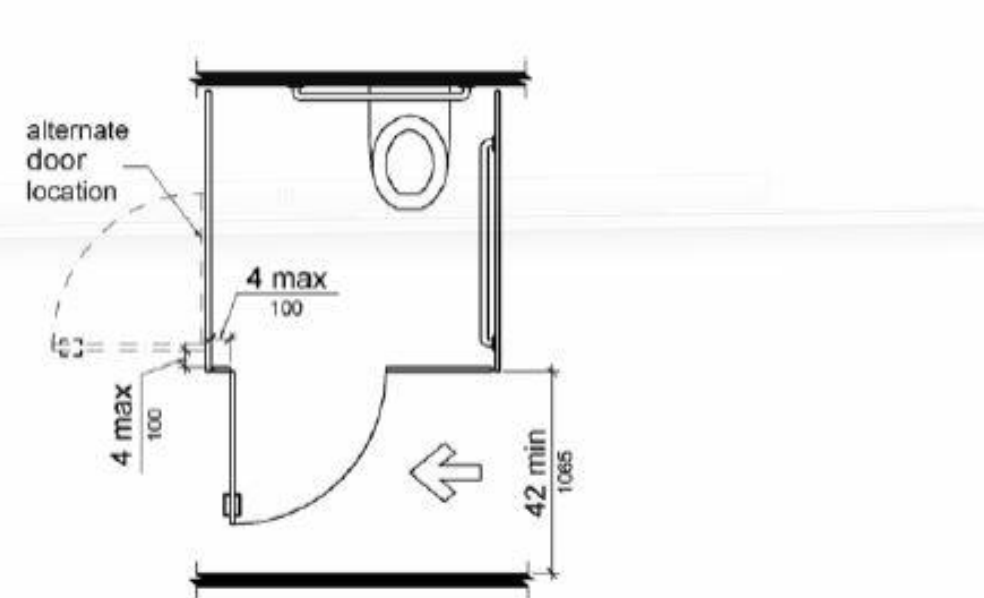


Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

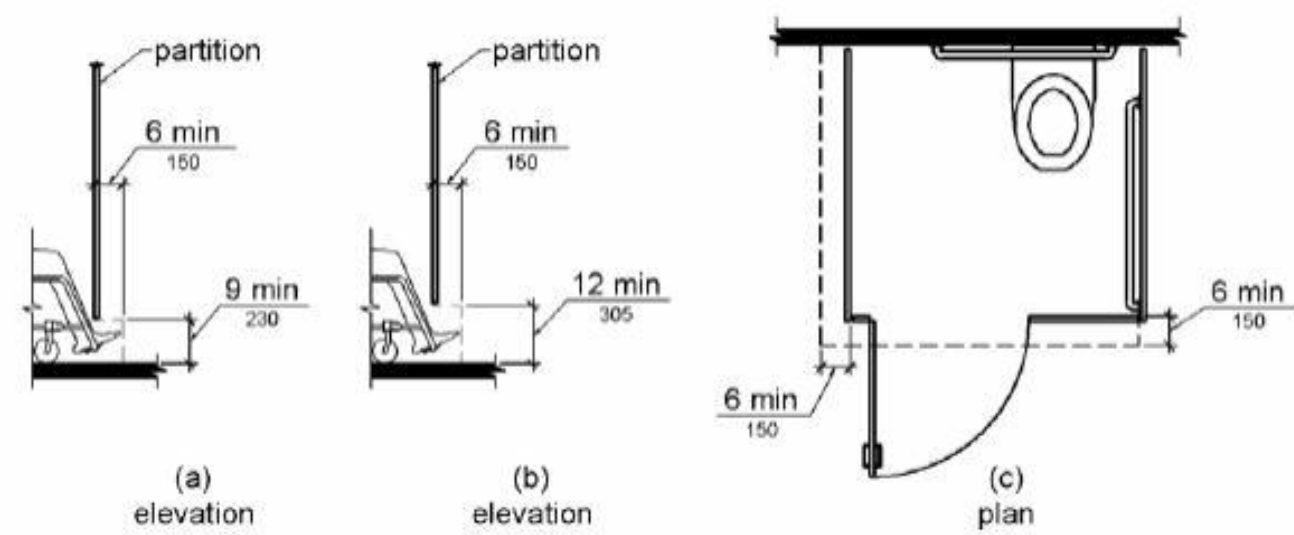


Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

605 URINALS

605.1 General. Urinals shall comply with 605.

Advisory 605.1 General. Stall-type urinals provide greater accessibility for a broader range of persons, including people of short stature.

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

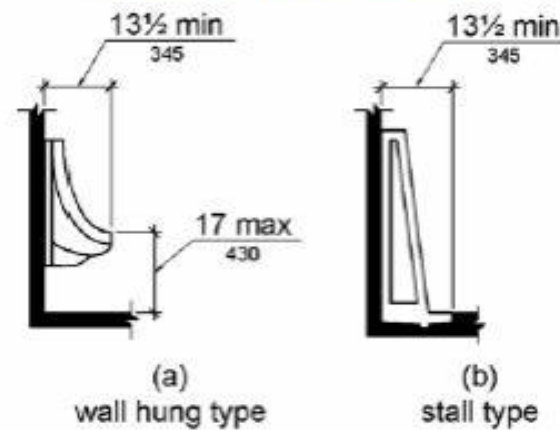


Figure 605.2 Height and Depth of Urinals

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606 LAVATORIES AND SINKS

606.1 General. Lavatories and sinks shall comply with 606.

Advisory 606.1 General. If soap and towel dispensers are provided, they must be located within the reach ranges specified in 308. Locate soap and towel dispensers so that they are conveniently usable by a person at the accessible lavatory.

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.



JERSEY MIKES - ST. JOSEPH
3608 N. BELT HIGHWAY
ST. JOSEPH, MO 64506

#	Description	Date
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ACCESSIBILITY STANDARDS

Project #	43423-M001
Issue Date	2/23/2023
Scale	
Drawn by	UG
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A0.5

606 LAVATORIES AND SINKS

EXCEPTIONS:

1. A parallel approach complying with 305 shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided and to wet bars.
2. A lavatory in a toilet room or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to provide knee and toe clearance complying with 306.
3. In residential dwelling units, cabinetry shall be permitted under lavatories and kitchen sinks provided that all of the following conditions are met:
 - (a) the cabinetry can be removed without removal or replacement of the fixture;
 - (b) the finish floor extends under the cabinetry; and
 - (c) the walls behind and surrounding the cabinetry are finished.
4. A knee clearance of 24 inches (610 mm) minimum above the finish floor or ground shall be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches (785 mm) maximum above the finish floor or ground.
5. A parallel approach complying with 305 shall be permitted to lavatories and sinks used primarily by children 5 years and younger.
6. The dip of the overflow shall not be considered in determining knee and toe clearances.
7. No more than one bowl of a multi-bowl sink shall be required to provide knee and toe clearance complying with 306.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

EXCEPTIONS:

1. A lavatory in a toilet or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 606.3.
2. In residential dwelling unit kitchens, sinks that are adjustable to variable heights, 29 inches (735 mm) minimum and 36 inches (915 mm) maximum, shall be permitted where rough-in plumbing permits connections of supply and drain pipes for sinks mounted at the height of 29 inches (735 mm).

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks

609 GRAB BARS

609.1 General. Grab bars in toilet facilities and bathing facilities shall comply with 609.

609.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

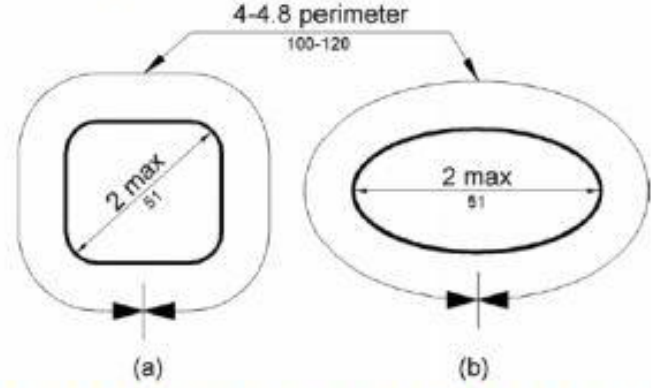


Figure 609.2.2 Grab Bar Non-Circular Cross Section

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

EXCEPTION: The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be 1 1/2 inches (38 mm) minimum.

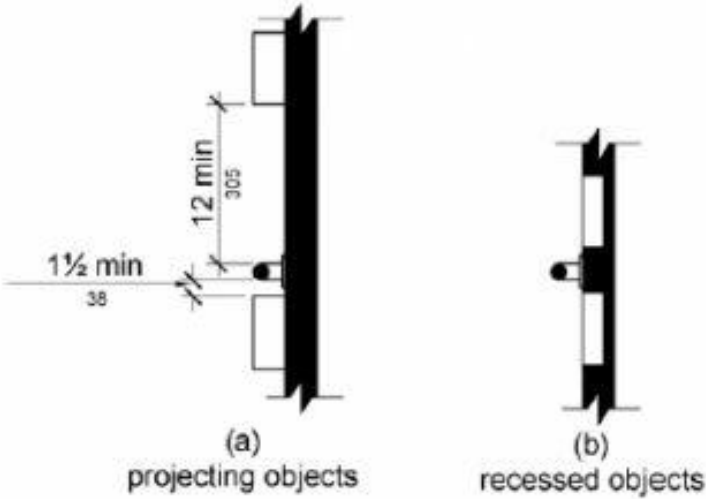


Figure 609.3 Spacing of Grab Bars

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

703 SIGNS

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

EXCEPTION: Tactile characters for elevator car controls shall not be required to comply with 703.4.1.

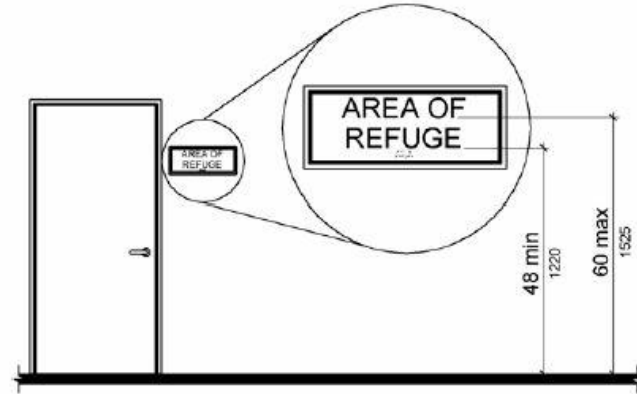


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

EXCEPTION: Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

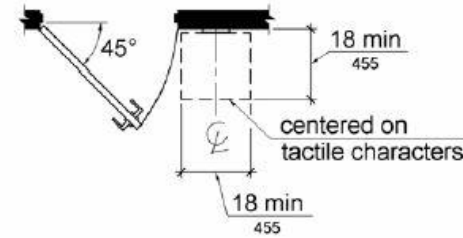


Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

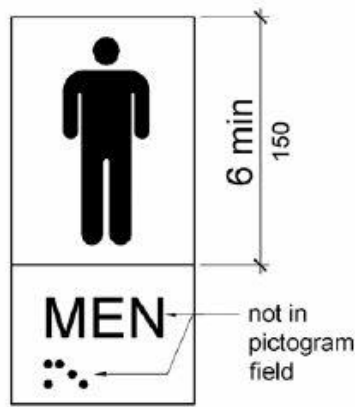


Figure 703.6.1 Pictogram Field

703.7.2 Symbols.

703.7.2.1 International Symbol of Accessibility. The International Symbol of Accessibility shall comply with Figure 703.7.2.1.



Figure 703.7.2.1 International Symbol of Accessibility

902 DINING SURFACES AND WORK SURFACES

902.1 General. Dining surfaces and work surfaces shall comply with 902.2 and 902.3.

EXCEPTION: Dining surfaces and work surfaces for children's use shall be permitted to comply with 902.4.

Advisory 902.1 General. Dining surfaces include, but are not limited to, bars, tables, lunch counters, and booths. Examples of work surfaces include writing surfaces, study carrels, student laboratory stations, baby changing and other tables or fixtures for personal grooming, coupon counters, and where covered by the ABA scoping provisions, employee work stations.

902.2 Clear Floor or Ground Space. A clear floor space complying with 305 positioned for a forward approach shall be provided. Knee and toe clearance complying with 306 shall be provided.

902.3 Height. The tops of dining surfaces and work surfaces shall be 28 inches (710 mm) minimum and 34 inches (865 mm) maximum above the finish floor or ground.

902.4 Dining Surfaces and Work Surfaces for Children's Use. Accessible dining surfaces and work surfaces for children's use shall comply with 902.4.

EXCEPTION: Dining surfaces and work surfaces that are used primarily by children 5 years and younger shall not be required to comply with 902.4 where a clear floor or ground space complying with 305 positioned for a parallel approach is provided.

902.4.1 Clear Floor or Ground Space. A clear floor space complying with 305 positioned for forward approach shall be provided. Knee and toe clearance complying with 306 shall be provided, except that knee clearance 24 inches (610 mm) minimum above the finish floor or ground shall be permitted.

902.4.2 Height. The tops of tables and counters shall be 26 inches (660 mm) minimum and 30 inches (760 mm) maximum above the finish floor or ground.

903 BENCHES

903.1 General. Benches shall comply with 903.

903.2 Clear Floor or Ground Space. Clear floor or ground space complying with 305 shall be provided and shall be positioned at the end of the bench seat and parallel to the short axis of the bench.

903.3 Size. Benches shall have seats that are 42 inches (1065 mm) long minimum and 20 inches (510 mm) deep minimum and 24 inches (610 mm) deep maximum.

903.4 Back Support. The bench shall provide for back support or shall be affixed to a wall. Back support shall be 42 inches (1065 mm) long minimum and shall extend from a point 2 inches (51 mm) maximum above the seat surface to a point 18 inches (455 mm) minimum above the seat surface. Back support shall be 2 1/2 inches (64 mm) maximum from the rear edge of the seat measured horizontally.

Advisory 903.4 Back Support. To assist in transferring to the bench, consider providing grab bars on a wall adjacent to the bench, but not on the seat back. If provided, grab bars cannot obstruct transfer to the bench.

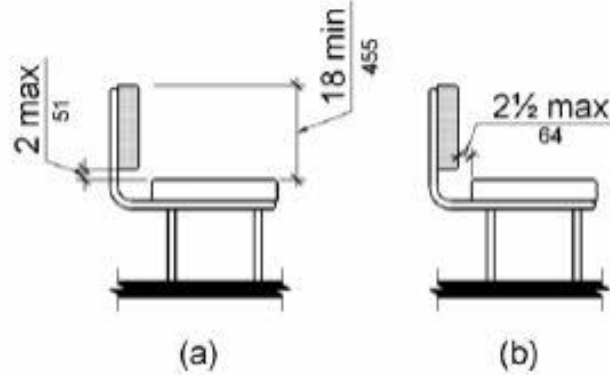


Figure 903.4 Bench Back Support

903.5 Height. The top of the bench seat surface shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the finish floor or ground.

903.6 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.

903.7 Wet Locations. Where installed in wet locations, the surface of the seat shall be slip resistant and shall not accumulate water.

904 CHECK-OUT AISLES & SALES/SERVICE COUNTER

904.4 Sales and Service Counters. Sales counters and service counters shall comply with 904.4.1 or 904.4.2. The accessible portion of the counter top shall extend the same depth as the sales or service counter top.

EXCEPTION: In alterations, when the provision of a counter complying with 904.4 would result in a reduction of the number of existing counters at work stations or a reduction of the number of existing mail boxes, the counter shall be permitted to have a portion which is 24 inches (610 mm) long minimum complying with 904.4.1 provided that the required clear floor or ground space is centered on the accessible length of the counter.

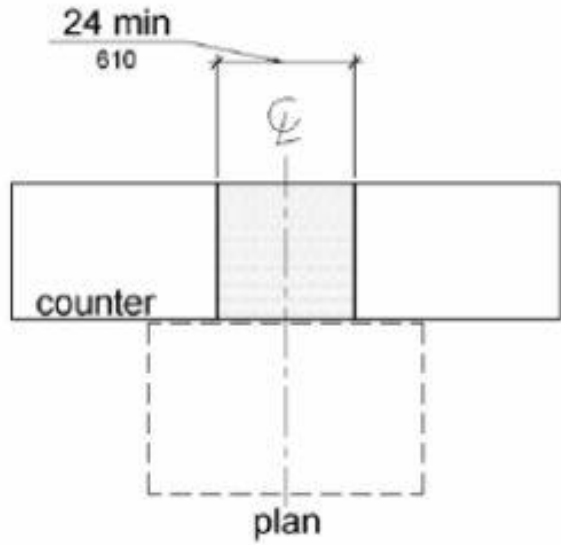


Figure 904.4 (Exception) Alteration of Sales and Service Counters

904.4.1 Parallel Approach. A portion of the counter surface that is 36 inches (915 mm) long minimum and 36 inches (915 mm) high maximum above the finish floor shall be provided. A clear floor or ground space complying with 305 shall be positioned for a parallel approach adjacent to the 36 inch (915 mm) minimum length of counter.

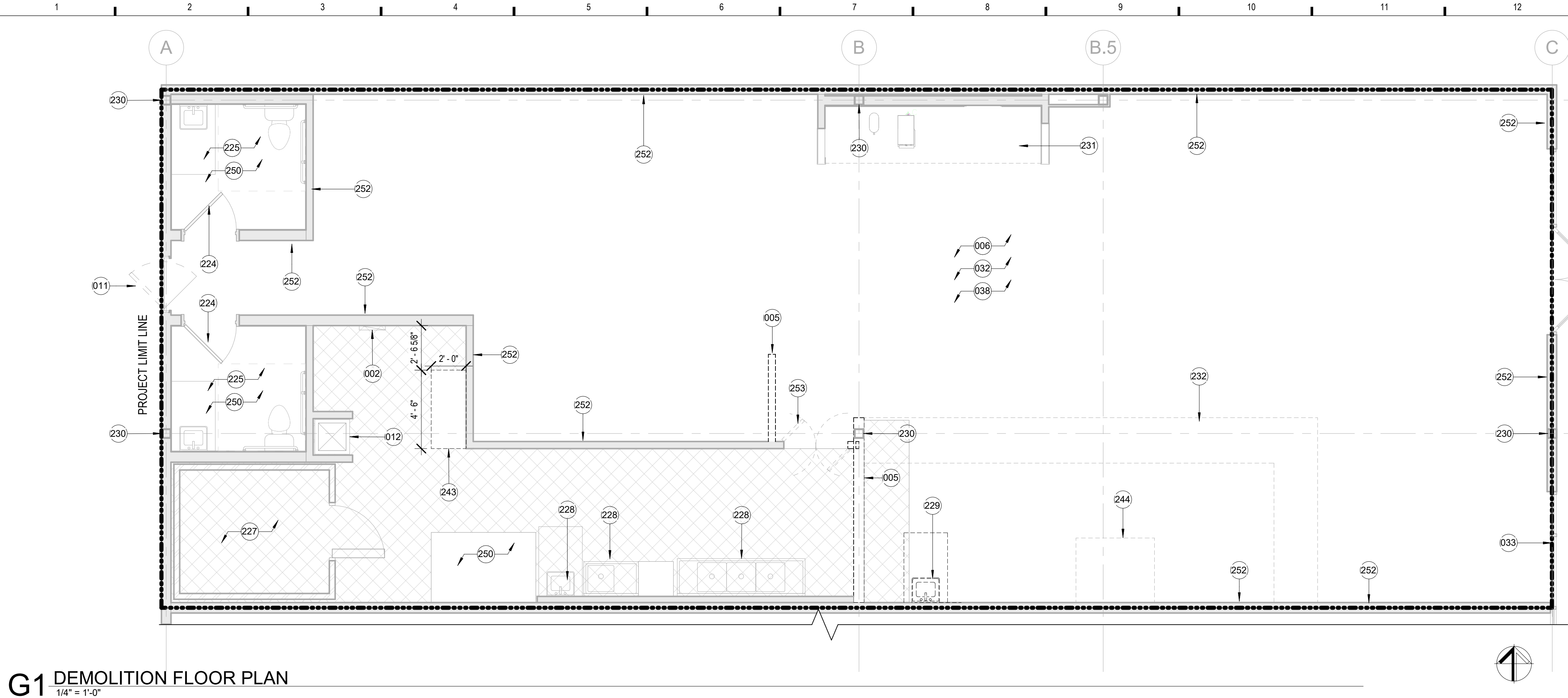
EXCEPTION: Where the provided counter surface is less than 36 inches (915 mm) long, the entire counter surface shall be 36 inches (915 mm) high maximum above the finish floor.

904.4.2 Forward Approach. A portion of the counter surface that is 30 inches (760 mm) long minimum and 36 inches (915 mm) high maximum shall be provided. Knee and toe space complying with 306 shall be provided under the counter. A clear floor or ground space complying with 305 shall be positioned for a forward approach to the counter.

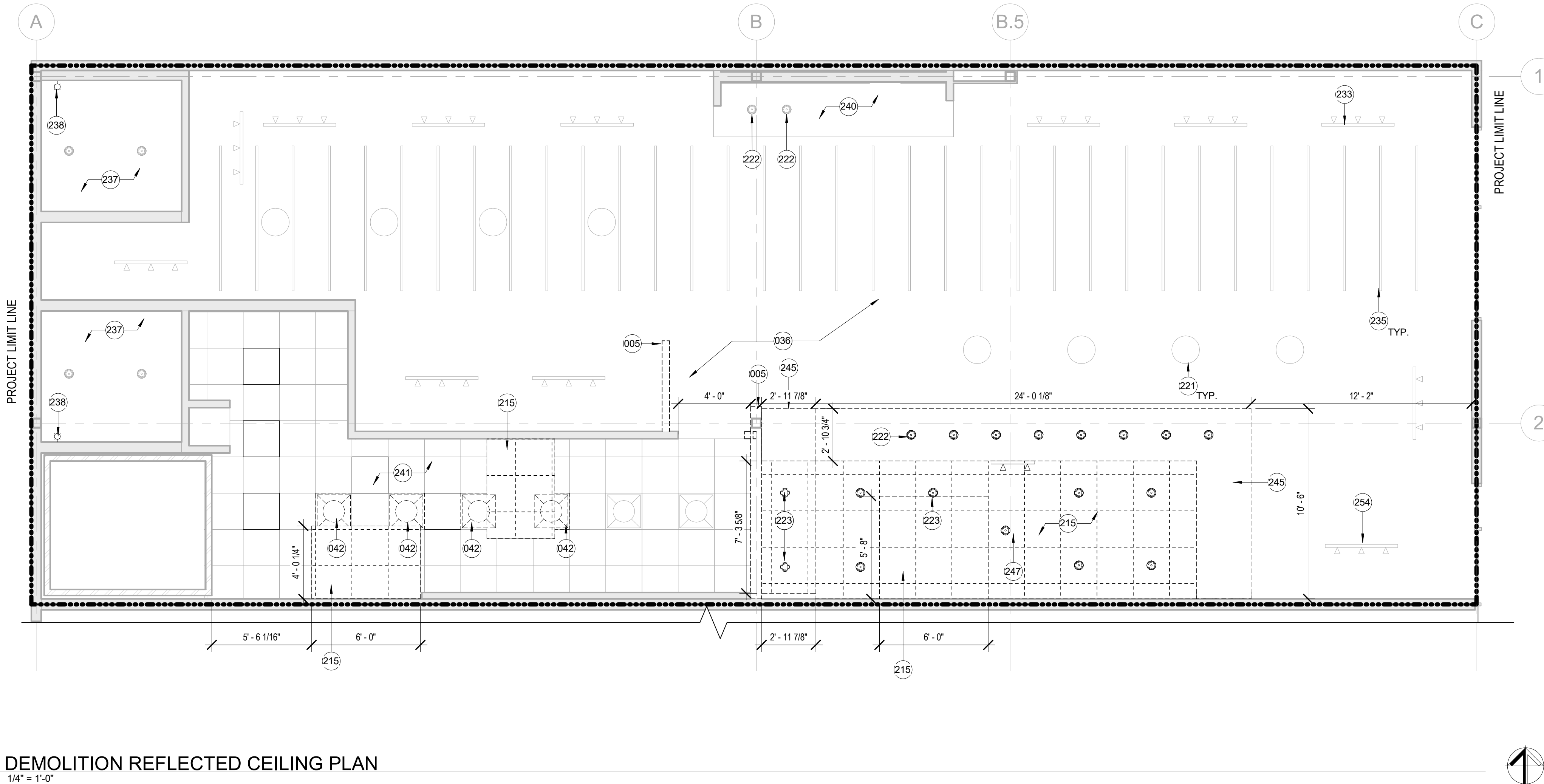
904.5 Food Service Lines. Counters in food service lines shall comply with 904.5.

904.5.1 Self-Service Shelves and Dispensing Devices. Self-service shelves and dispensing devices for tableware, dishware, condiments, food and beverages shall comply with 308.

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G1 DEMOLITION FLOOR PLAN
1/4" = 1'-0"



S1 DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"

SHEET NOTES:

- DASHED LINES ON DEMOLITION PLAN REPRESENT ITEMS TO BE DEMOLISHED/REMOVED
- PATCH AND REPAIR REMAINING EXISTING PARTITIONS THAT ARE DAMAGED BY DEMOLITION
- PREPARE ALL SURFACES TO RECEIVE NEW FINISHES AS SCHEDULED. LEVEL FLOOR AS REQUIRED
- REMOVE AND CAP OFF ANY ELECTRICAL OUTLETS, TELEPHONE AND COMMUNICATION LINES, AND PLUMBING LINES WHICH OCCUR IN WALLS WHICH ARE BEING REMOVED AS SHOWN DASHED ON PLANS. OPERATION OF REMAINING SYSTEMS SHALL CONTINUE UNINTERRUPTED.
- IF PLUMBING, WATER, WASTE OR VENT PIPES ARE ENCOUNTERED IN WALL SCHEDULED TO BE REMOVED, AND PIPE IS SCHEDULED TO BE ABANDONED AS A PART OF THIS WORK, REMOVE SECTION OF PIPES EXPOSED AND CAP OFF PIPE WITH-IN FLOOR, WALLS OR ABOVE CEILING. PATCH FLOOR, WALLS AND CEILING DAMAGED DURING PIPE REMOVAL AND CAPPING. IF PIPE IS NOT SCHEDULED TO BE ABANDONED AS A PART OF THIS WORK, RELOCATE PIPE TO THE NEAREST WALL OR COLUMN AND ENCLOSE IN WALL OR COLUMN.
- GC TO PROTECT EXISTING SUB-GRADE BUILDING UTILITIES FROM DEMOLITION AND RECONNECT NEW SYSTEMS TO EXISTING WHERE AVAILABLE.
- GC SHALL NOTIFY ARCHITECT WHEN DEMOLITION IS COMPLETE AND NEW CONSTRUCTION BEGINS.
- CONTRACTOR TO VERIFY AND MAINTAIN EXISTING FIRE RATINGS OF EXISTING BUILDING COMPONENTS (DOORS, FRAMES, WALLS, ETC). MAINTAIN RATINGS THROUGHOUT NEW/DEMOLITION CONSTRUCTION ACTIVITIES.
- GC TO PROTECT EXISTING CONSTRUCTION DURING DEMOLITION AND CONSTRUCTION PHASES.
- GC TO REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING ENGINEERED DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES
- IF DURING DEMOLITION CONDITIONS ARE REVEALED THAT MAY JEOPARDIZE THE INTEGRITY OF THE STRUCTURE OR PRECLUDE FOLLOWING DRAWINGS, GC TO SHORE STRUCTURES AND NOTIFY ARCHITECT AND OWNER IMMEDIATELY FOR FURTHER INSTRUCTION AND CONSULT OF A STRUCTURAL ENGINEER

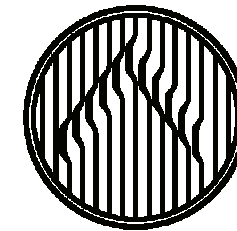
KEYNOTES:

KEY #	KEYNOTE TEXT
002	EXISTING ELECTRIC PANEL TO REMAIN, REF. ELECTRICAL DRAWINGS
005	EXISTING WALL TO BE DEMOLISHED. PREPARE FLOOR SUBSTRATE FOR INSTALLATION OF NEW FINISHES INDICATED ON SHEET A2.2.
006	GC TO REPLACE ALL SUBSTRATES THAT ARE TOO DAMAGED AS REQUIRED AND PREPARE SUBSTRATE FOR INSTALLATION OF NEW FINISHES PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.
011	EXISTING PAINTED HOLLOW METAL DOOR AND FRAME TO REMAIN.
012	EXISTING MOP SINK TO REMAIN. G.C. TO ENSURE PROPER WORKING ORDER AND CLEAN TO LIKE-NEW CONDITIONS.
032	G.C. TO COORDINATE EXTENT OF DEMOLITION WORK WITHIN SPACE WITH LANDLORD. GC TO LIMIT DEMOLITION WORK WITHIN LEASED SPACE.
033	EXISTING STOREFRONT TO REMAIN.
036	OPEN TO STRUCTURE ABOVE. DINING ROOM ONLY. FINISHES EXTENDED TO 12' AFF. EVERYTHING ABOVE TO BE PAINTED PT-3.
038	GC TO COORDINATE TRENCH CUTS NEEDED (NOT SHOWN) FOR UNDERGROUND UTILITIES; REFERENCE MEP DRAWINGS FOR ADDITIONAL INFORMATION
042	G.C. TO REMOVED AND DISCARD EXISTING 2X2 FLUORESCENT LIGHT.
215	DEMO EXISTING PORTION OF ACT CEILING.
221	EXISTING LIGHTING FIXTURES TO REMAIN.
222	EXISTING CAN LIGHTING TO REMAIN.
223	EXISTING RECESSED CAN LIGHT TO BE REMOVED AND DISCARDED.
224	EXISTING HOLLOW METAL DOOR TO REMAIN.
225	EXISTING WATER CLOSET, LAVATORY, AND OTHER ACCESSORIES TO BE REMOVED AND STORED DURING CONSTRUCTION WHILE INSTALLING NEW FINISHES.
227	EXISTING WALK IN COOLER TO REMAIN.
228	EXISTING SINK TO REMAIN.
229	EXISTING SINK TO BE REMOVED AND DISCARDED.
230	EXISTING STRUCTURAL COLUMN TO REMAIN. G.C. TO PROTECT DURING CONSTRUCTION.
231	EXISTING COUNTER AND CASEWORK TO REMAIN.
232	EXISTING MILLWORK EQUIPMENT, AND ACCESSORIES TO BE REMOVED AND DISCARDED.
233	EXISTING TRACK LIGHTS TO REMAIN.
235	EXISTING SUSPENDED WOOD TROFFERS TO REMAIN.
237	EXISTING RESTROOM GYP CEILING AND CAN LIGHTS TO REMAIN.
238	EXISTING WALL SCONES TO REMAIN. G.C. TO CLEAN TO LIKE NEW CONDITIONS.
240	EXISTING GYP. CEILING TO REMAIN. G.C. TO PATCH AND REPAIR TO LIKE NEW CONDITIONS.
241	G.C. TO REPLACE ANY DAMAGE OR MISCOLORED ACT TILES.
243	DEMO EXISTING RAISED CONCRETE PAD. LEVEL AND PREP FOR NEW SURFACE.
244	EXSITING PIZZA OVEN TO BE REMOVED AND DISCARDED.
245	DEMO EXISTING GYP. BD. SOFFIT.
247	DEMO AND DISCARD EXISTING TRACK LIGHTS.
250	G.C. TO REMOVE ALL EXISTING FLOOR AND WALL FINISHES. G.C. TO PREP AREA FOR NEW FINISHES.
252	EXISTING WALL FINISH TO BE REMOVED. PATCH AND REPAIR FOR INSTALLATION OF NEW FINISHES.
253	G.C. TO REMOVE EXISTING SALOON DOORS AND FRAME.
254	DEMO EXISTING TRACK LIGHT.

WALL & DOOR LEGEND

	EXISTING CONSTRUCTION TO BE DEMOLISHED
	EXISTING CONSTRUCTION TO REMAIN.
	PARTITION
	INSULATED PARTITION
	LOW PARTITION, SEE SECTIONS FOR HEIGHT
	RATED PARTITION
	EXISTING DOOR TO REMAIN
	NEW CONSTRUCTION DOOR
	EXISTING CAN LIGHTING TO DEMOLISHED
	EXISTING TRACK LIGHTING TO REMAIN

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(314) 367-6100



JERSEY MIKES - ST. JOSEPH

3508 N. BELT HIGHWAY
ST. JOSEPH, MO 64506

#	Description	Date
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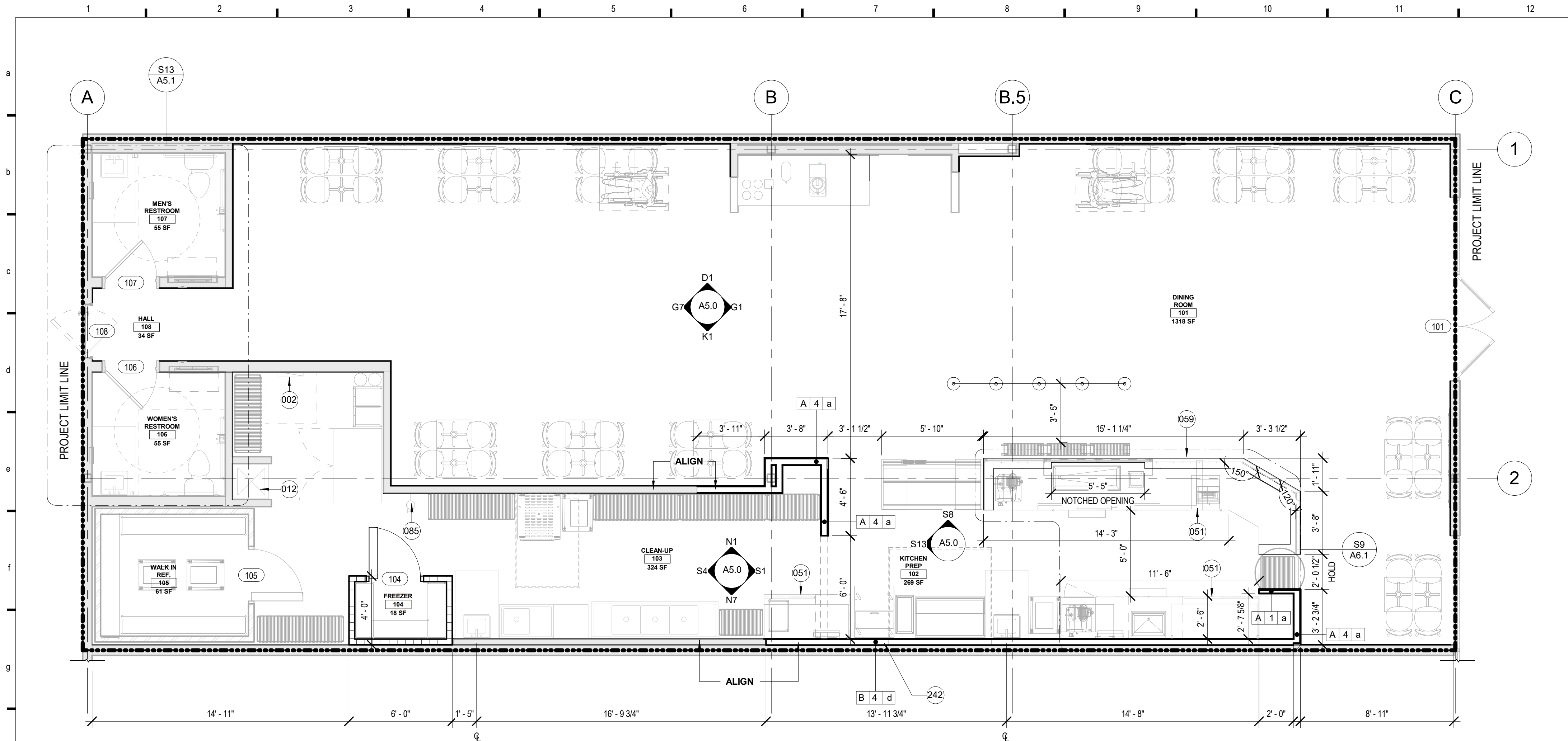
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DEMOLITION PLAN

Project #	43423-M001
Issue Date	2/23/2023
Scale	As indicated
Drawn by	UG
Checked by	AM/JM

A1.0

2023/02/11 12:15 AM
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H1 FLOOR PLAN
1/4" = 1'-0"

DOOR SCHEDULE

DOOR #	WIDTH	HEIGHT	DOOR			HARDWARE	FRAME		Comments
			THICKNESS	TYPE	MATERIAL		TYPE	MATERIAL	
101	6' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXISTING DOOR TO REMAIN. G.C. TO RE-KEY PER HW3.
104	3' - 0"	7' - 0"	0' - 6"	-	-	-	-	-	DOOR PROVIDED BY VENDOR, VISION LIGHT TO BE TEMPERED OR LAMINATED GLASS.
105	3' - 0"	7' - 0"	0' - 6"	-	EXIST.	EXIST.	EXIST.	EXIST.	EXISTING COOLER DOOR TO REMAIN. G.C. TO ENSURE DOOR IS IN PROPER WORKING ORDER.
106	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXISTING DOOR TO REMAIN. G.C. TO RE-KEY PER HW1. PAINT DOOR AND FRAME PT-5.
107	3' - 0"	7' - 0"	0' - 1 3/4"	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXISTING DOOR TO REMAIN. G.C. TO RE-KEY PER HW1. PAINT DOOR AND FRAME PT-5.
108	3' - 0"	7' - 0"	0' - 2 3/8"	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXISTING DOOR TO REMAIN. G.C. TO RE-KEY PER HW2.

WALL AND DOOR LEGEND

	EXISTING CONSTRUCTION TO BE DEMOLISHED
	EXISTING CONSTRUCTION TO REMAIN.
	PARTITION
	INSULATED PARTITION
	LOW PARTITION, SEE SECTIONS FOR HEIGHT
	RATED PARTITION
	EXISTING DOOR TO REMAIN
	NEW CONSTRUCTION DOOR
	EXISTING CAN LIGHTING TO DEMOLISHED
	EXISTING TRACK LIGHTING TO REMAIN

DOOR ABBREVIATIONS:

AL-SF	ALUMINUM STOREFRONT
CO	CASED OPENING
CG	CEILING GRILLE
F	FLUSH
F (D)	FLUSH (DUTCH)
FACT	FACTORY
FG	FULL GLASS
FR 45	FIRE RATING LABEL IN MINUTES
G	GLASS
GL-1	GLAZING TYPE
HO	HOLD-OPEN
HW	HARDWARE
MFR	MANUFACTURER'S STANDARD
NCO	NON-CASED OPENING
OPP	OPPOSITE
PNL	PANEL
PR	PAIR
PS	POCKET SLIDE
PT	PAINT
PVC	POLYVINYL CHLORIDE
S	SMOKE CONTROL "S" LABEL
STL	STEEL
STL-CC	STEEL COMPOSITE CORE
STL-KD	STEEL KNOCK-DOWN
STL-W	STEEL WELDED
T	TEMPERATURE RISE LABEL - DOOR
TC	TRANSPARENT FINISH - CLEAR
TS	TRANSPARENT FINISH - STAINED
WD	WOOD
WD-HC	WOOD HOLLOW CORE
WD-SC	WOOD SOLID CORE

SHEET NOTES:

- ALL DOOR OPENINGS PERPENDICULAR TO A WALL ARE 6" FROM THE WALL UON
- GC TO NOTIFY ARCHITECT OF ANY DISCREPENCIES PRIOR TO CONSTRUCTION.
- REFER TO SHEET A0.3 FOR ACCESSIBLE DOOR CLEARANCES
- ALL DIMENSIONS ARE TO FINISH FACE OF GWB UON
- REFERENCE SHEET A6.0 FOR PARTITION TYPES
- SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED. ADA 404.2.10
- ACCESSIBLE TABLES SHALL BE POSITIONED FOR A FORWARD APPROACH WITH CLEAR FLOOR SPACE COMPLIANT WITH ADA 305, SHALL BE 28" TO 34" IN HEIGHT TO THE TOP, HAVE 27" MINIMUM HIGH KNEE SPACE AND HAVE KNEE AND TOE CLEARANCE TO MEET ADA 306. ALL FOOD CONDIMENTS, UTENSILS, DRINK DISPENSERS, ETC. SHALL BE LOCATED WITHIN THE REACH RANGES REQUIRED BY ADA AND NO HIGHER THAN 48" ABOVE THE FLOOR.
- EXIT DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR ERROR. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.

KEYNOTES: (XX)

KEY #	KEYNOTE TEXT
002	EXISTING ELECTRIC PANEL TO REMAIN, REF. ELECTRICAL DRAWINGS
012	EXISTING MOP SINK TO REMAIN. G.C. TO ENSURE PROPER WORKING ORDER AND CLEAN TO LIKE-NEW CONDITIONS.
051	MILLWORK/CASEWORK BY G.C.
059	HALF-HEIGHT PARTITION BELOW. SEE SECTIONS
085	PROVIDE FIRE EXTINGUISHER PER IFC SECTION 906.
242	NEW WALL TO ALIGN WITH EXISTING.



JERSEY MIKES - ST. JOSEPH

3508 N. BELT HIGHWAY
ST. JOSEPH, MO 64506

#	Description	Date
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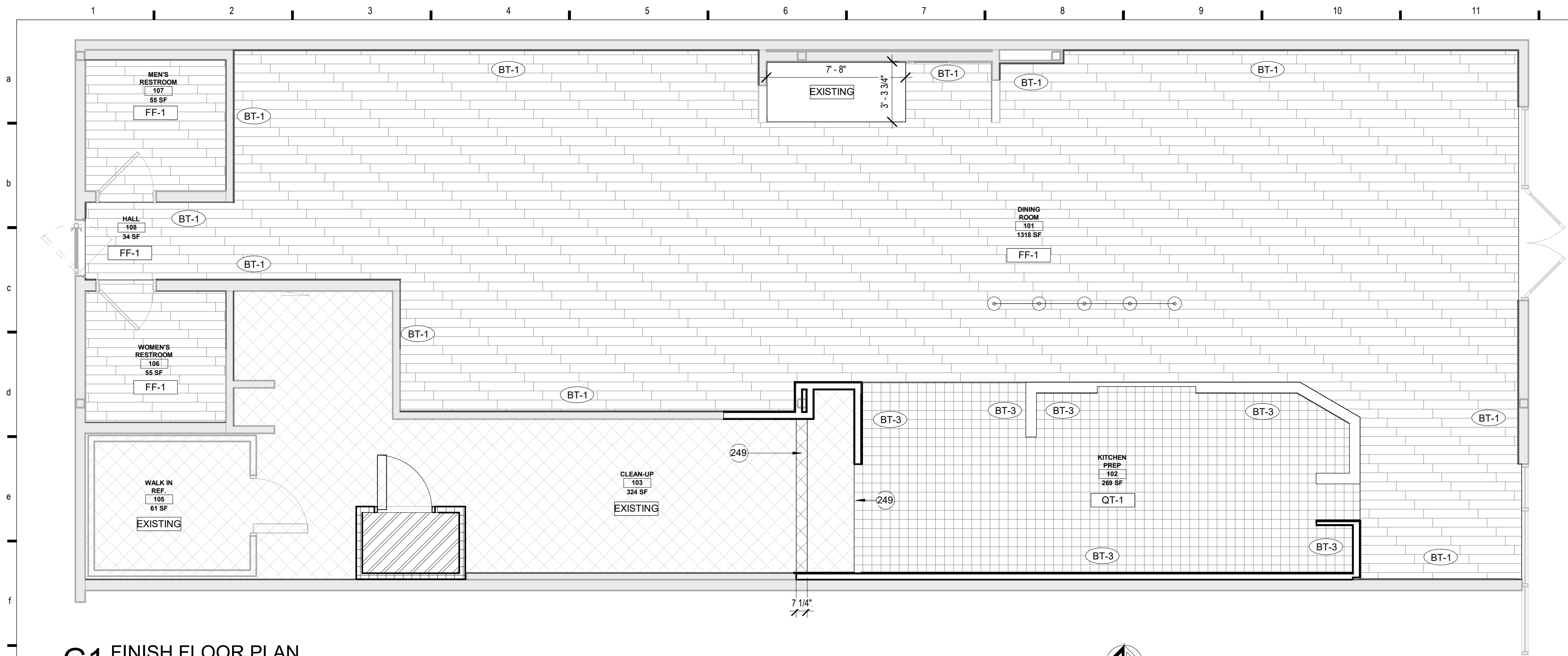
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ARCHITECTURAL FLOOR PLAN

Project #	43423-M001
Issue Date	2/23/2023
Scale	As indicated
Drawn by	UG
Checked by	AM/JM

A2.1

2/20/2023 11:12:38 AM JERSEY MIKES, ST. JOSEPH



G1 FINISH FLOOR PLAN
1/4" = 1'-0"

FINISH SPECIFICATIONS XX

FLOORING AND WALL BASE					
TAG	SOURCE	TYPE	DESCRIPTION	COLOR	COMMENTS
FF-1	DAL TILE	PROCELAIN 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 3/16". PATTERN TO BE INSTALLED IN RANDOM ARRANGEMENT
FF-2					ALTERNATIVE TO FF-1
QT-1	DAL TILE	QUARRY TILE	6X6 PAVER 0Q74	BLACK	KITCHEN FLOORING. GROUT: MAPEI FLEXCOLOR CQ10 BLACK
BT-1	DAL TILE	PROCELAIN 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

- NOTES:
1. IF INTERIOR TRANSITIONS STRIPS ARE TO BE REQUIRED, USE SCHULTER-RENO IN SATIN ANODIZED ALUMINUM.
2. FOR COVE BASE APPLICATION IN THE RESTROOM(S), USE SCHLUTER DILEX-AHK (POLISHED NICKEL) BELOW FULL WT-2 TILES. NO CUT TILE IS REQUIRED. REFER TO ELEVATIONS.

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

FINISH REMOVED					
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	FIVE KIDS GROUP, INC.	ENGINEERED WHITE OAK PANELING	WHITE OAK	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	FIVE KIDS GROUP, INC.	TEAK		GC TO ORDER FROM FIVE KIDS GROUP. 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	ITEM #206916 23 3/4" X 96" X 1/2" PANEL	BY MANUFACTURER - PNL 9099	BEHIND BEACH CHAIR GRAPHICS IN DINING ROOM - REFER TO ELEVATIONS. FACE OF COUNTER ON THE FRONT LINE.

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

FINISH FLOOR NOTES

- NO PAINTING OR INTERIOR FINISHING SHALL BE DONE UNDER CONDITIONS WHICH WILL JEOPARDIZE THE QUALITY OR APPEARANCE OF SUCH WORK. ALL WORKMANSHIP WHICH IS JUDGED LESS THAN FIRST QUALITY BY THE ARCHITECT WILL BE REJECTED. FLAME SPREAD TO BE CLASS I: 0-25. SMOKE DENSITY TO BE LESS THAN 450.
- ALL SURFACES SHALL BE PREPARED TO RECEIVE THE SPECIFIED FINISH. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPED, SPACKLED AND SANDED SMOOTH AND PREPARED TO RECEIVE THE SPECIFIED FINISH.
- PROVIDE ONE PRIMER COAT AND 2 FINISH COATS AT ALL PAINTED WALLS.
- SEE FINISH PLAN, ELEVATIONS AND DETAILS FOR CLARIFICATION OF EXTENT OF FINISH MATERIALS.
- ALL VERTICAL SURFACES U.O.N. SHALL RECEIVE WALL BASE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALLOWING FOR DELIVERY LEAD TIMES FOR ALL FABRICS AND OTHER CUSTOM FINISHES WITHIN THE CONSTRUCTION SCHEDULE. ALL DELIVERY TIMES MUST BE CONFIRMED, AND ANY EXCESSIVE LEAD TIME MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY TO ALLOW FOR RE-SPECIFICATION IF NECESSARY.
- EXAMINE ALL FINISH SURFACES AFTER COMPLETION OF WORK AND "TOUCH-UP" AS REQUIRED.
- UPON COMPLETION, REMOVE ALL PAINT FROM WHERE IT HAS SPILLED, SPLASHED OR SPLATTERED ON EXPOSED SURFACES.
- INTERIOR GYPSUM BOARD SURFACES SHALL BE WIPED WITH A DAMP CLOTH JUST PRIOR TO APPLICATION OF THE FIRST COAT, IN ORDER TO LAY FLAT ANY NAP WHICH MAY HAVE FORMED IN SANDING PROCESS.
- ALL INTERSECTIONS OF FLOOR FINISH MATERIALS SHALL BE LOCATED DIRECTLY UNDER CENTER OF DOOR, WHERE OCCURS. U.O.N.
- REFERENCE INTERIOR ELEVATIONS FOR WALL FINISHES.

ROOM FINISH SCHEDULE

RM #	RM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
101	DINING ROOM	FF-1	BT-1	SEE ELEV.	CT-2	
102	KITCHEN PREP	QT-1	BT-3	SEE ELEV.	CT-1	
103	CLEAN-UP	EXISTING	EXISTING	SEE ELEV.	CT-1	
104	FREEZER	STEEL	STEEL	STEEL	STEEL	
105	WALK IN REF.	EXISTING	EXISTING	EXISTING	EXISTING	
106	WOMEN'S RESTROOM	FF-1	-	SEE ELEV.	EXISTING	
107	MEN'S RESTROOM	FF-1	-	SEE ELEV.	EXISTING	
108	HALL	FF-1	BT-1	SEE ELEV.	CT-2	

KEY #	KEYNOTE TEXT
249	G.C. TO INSTALL NEW POLYCRETE DUR-A-FLEX COVERING TO MATCH EXISTING FLOOR.

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

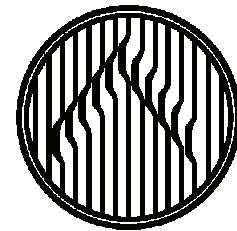
LAMINATES					
TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
PL-1	MILLWORK	WILSONART	STEEL MESH	FINE VELVET FINISH 4879-38	MILLWORK BEHIND THE SERVICE LINE AND BACK KITCHEN. USE PVC EDGE BANDING.
PL-2	CUTTING BOARDS	WILSONART	NATURAL RECON	FINE VELVET FINISH 7996-38	21 1/4" X 21 1/4" X 1" CUTTING BOARDS FOR PICK UP TOWER. QUANTITY 6

PAINT					
TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
PT-1	SHIP LAP, SOFFIT, AND RESTROOM CEILINGS	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.
PT-3	DOOR FRAME	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	WEATHER 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	SOURCE	PRODUCT	COLOR	COMMENTS
WT-1	CERAMIC TILE	DAL TILE	2X8 MOD JM BLUE	PART#: N519 JM28MOD1P2. GROUT: MAPEI ULTRACOLOR PLUS FA-IRON 107 SABLE BLACK	BACK SPLASH TILE IN KITCHEN AND BEVERAGE COUNTER. RUNNING BOND. USE SCHULTER JOLLY (POLISHED NICKEL) FOR EDGING. WALL TILE EXTENDS TO CEILING TILES IN FRONT KITCHEN AREA. BEHIND THE PICK UP TOWER, AND ABOVE ALL BEVERAGE COUNTER WALLS (10' AFF)
WT-2	CERAMIC TILE	DAL TILE	IRONCRAFT	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" X 3 1/2" HOT ROLLED STEEL	PAINTED IN BLACK SEMI-GLOSS	DINING ROOM CHAIR RAIL, WITH BUTTON HEAD HEX SOCKET SCREW

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3608 N. BELT HIGHWAY
ST. JOSEPH, MO 64506

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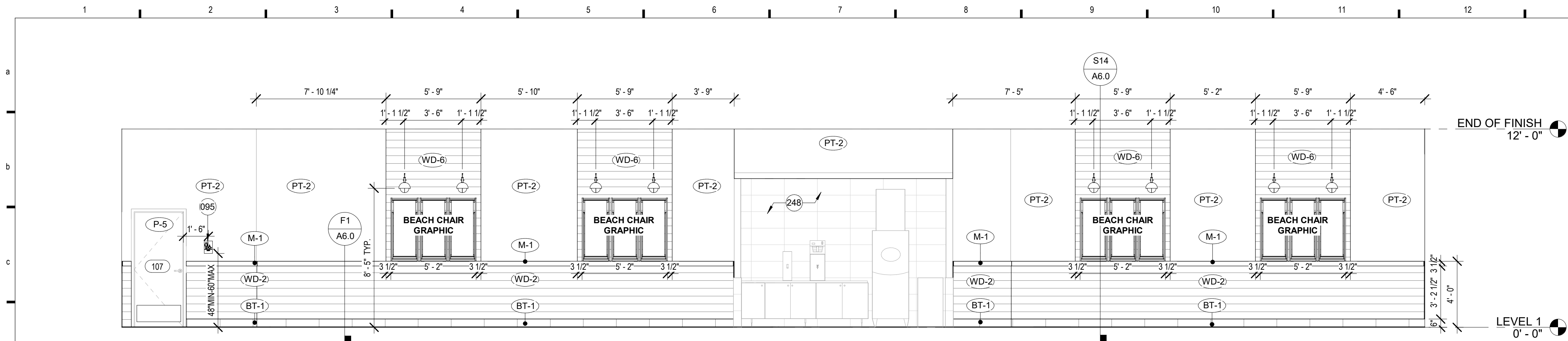


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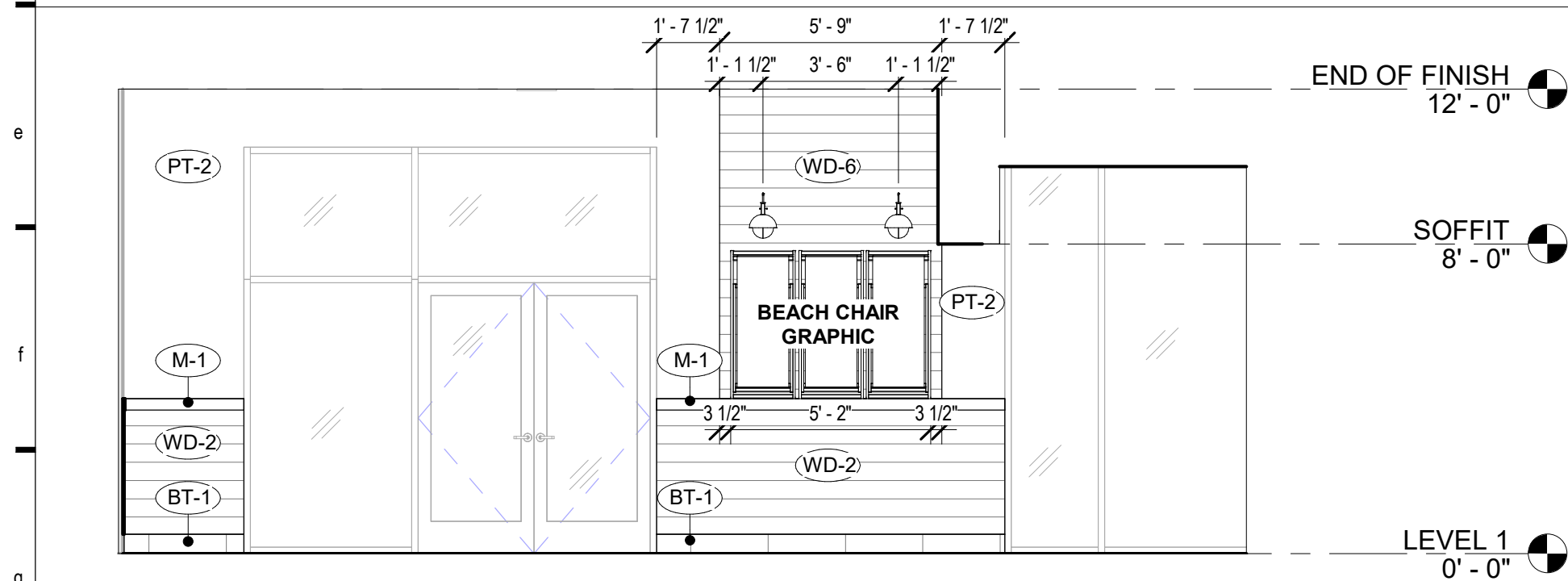
FINISH PLAN AND SCHEDULE

Project #	43423-M001
Issue Date	2/23/2023
Scale	As indicated
Drawn by	UG
Checked by	AM/JM

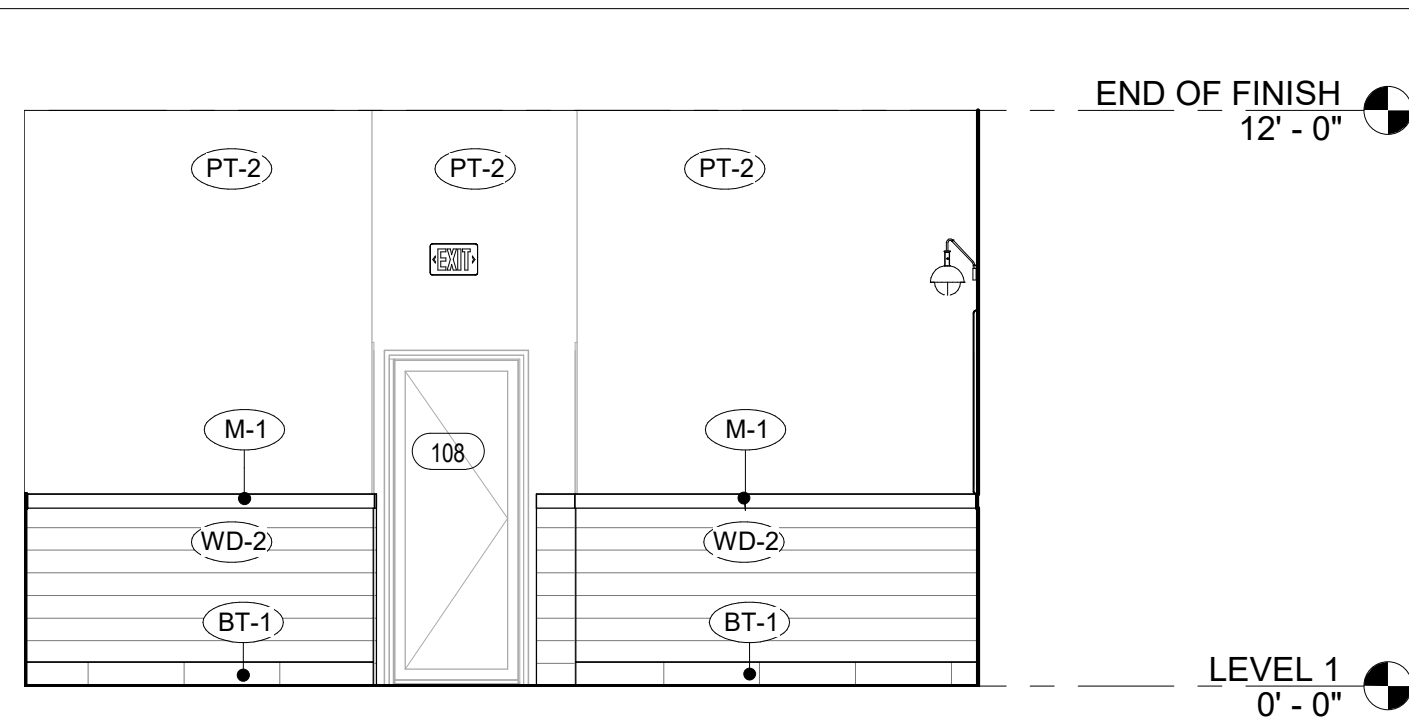
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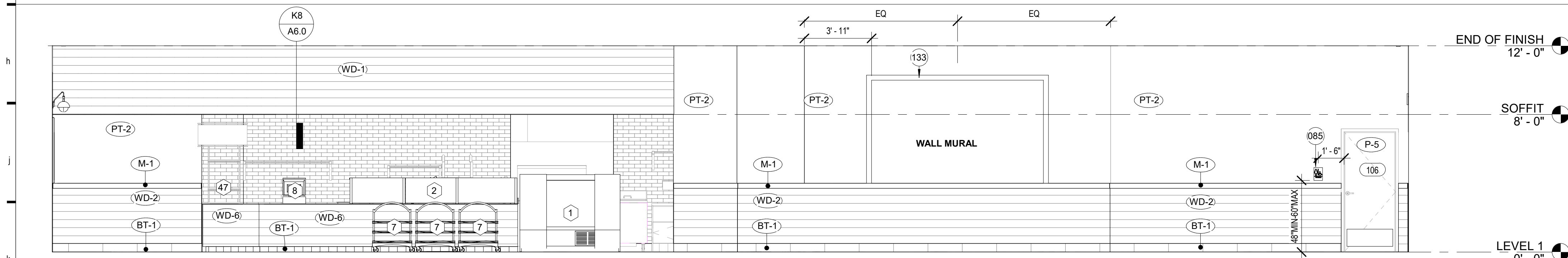
D1 NORTH ELEVATION - DINING ROOM
1/4" = 1'-0"



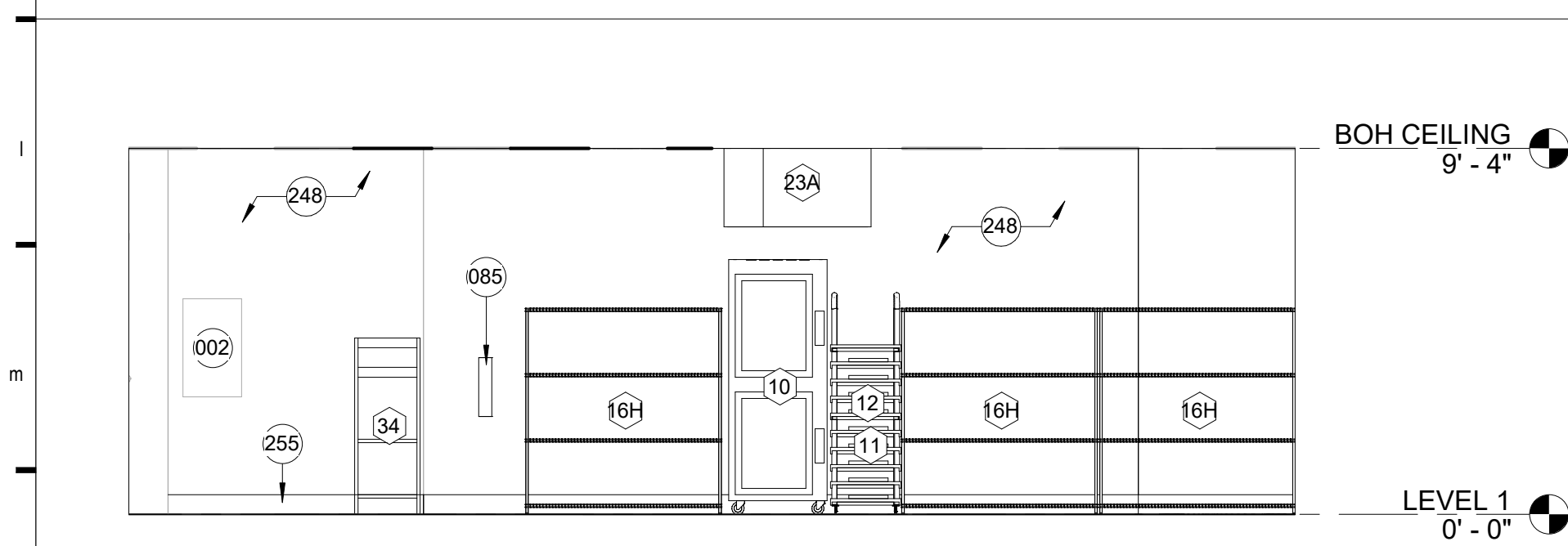
G1 EAST ELEVATION - DINING ROOM
1/4" = 1'-0"



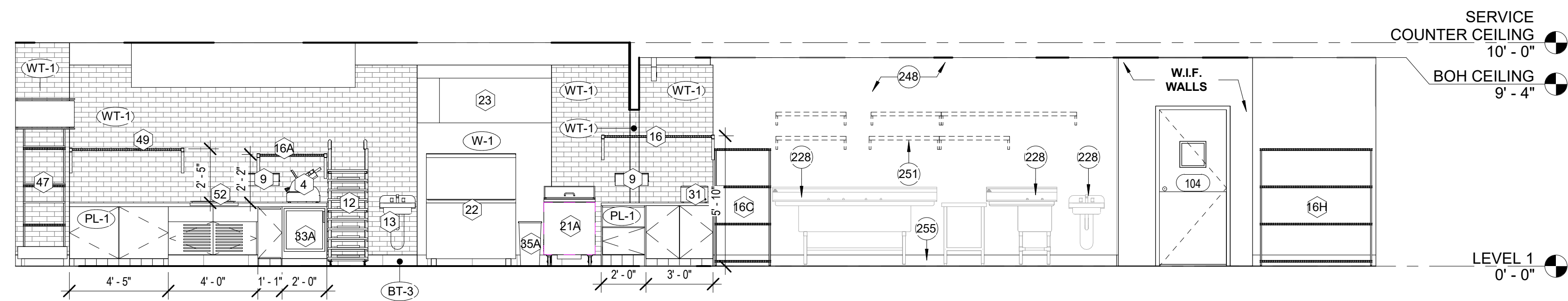
G7 WEST ELEVATION - DINING ROOM
1/4" = 1'-0"



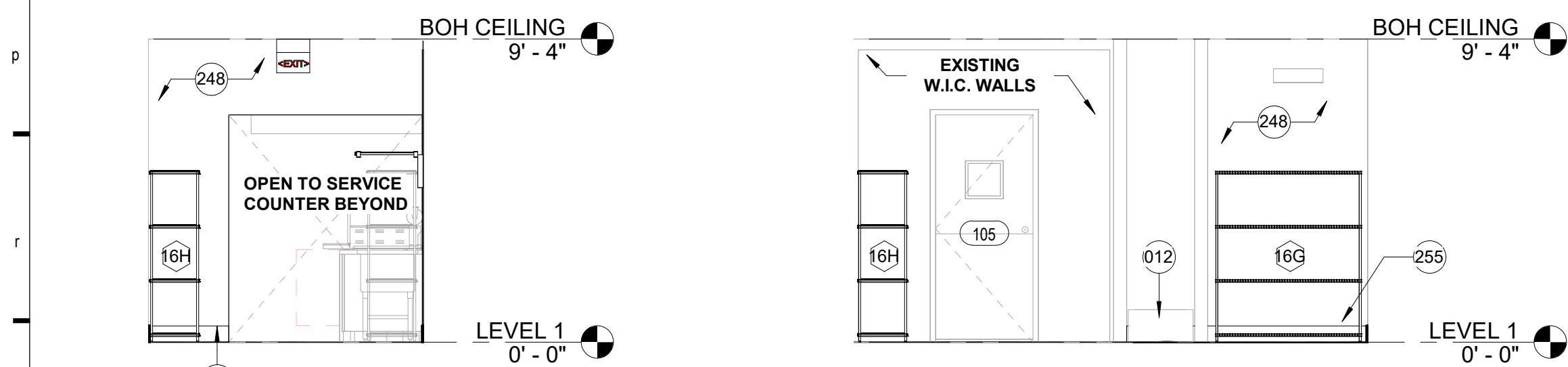
K1 SOUTH ELEVATION - DINING ROOM
1/4" = 1'-0"



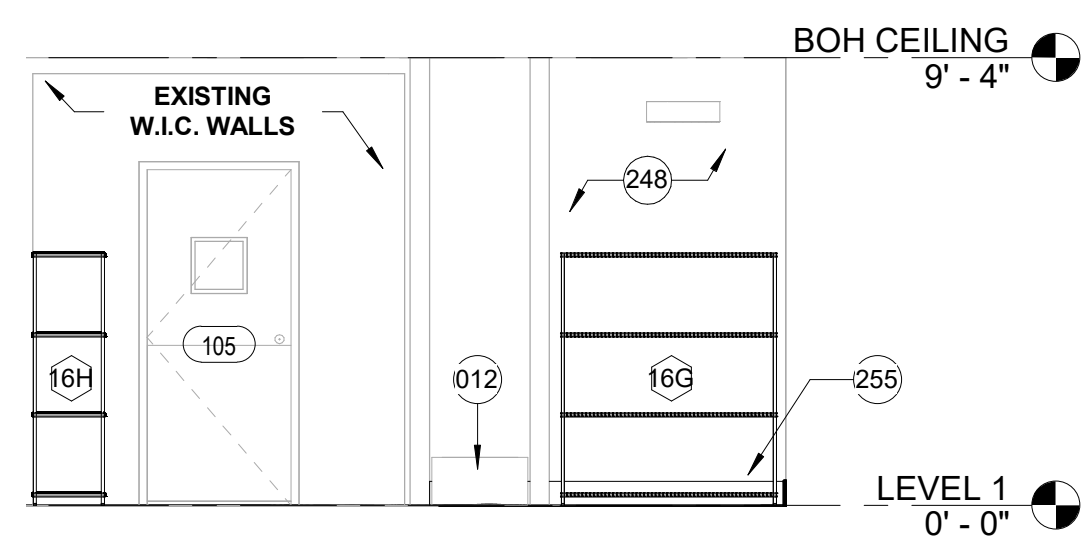
N1 NORTH ELEVATION - CLEAN UP
1/4" = 1'-0"



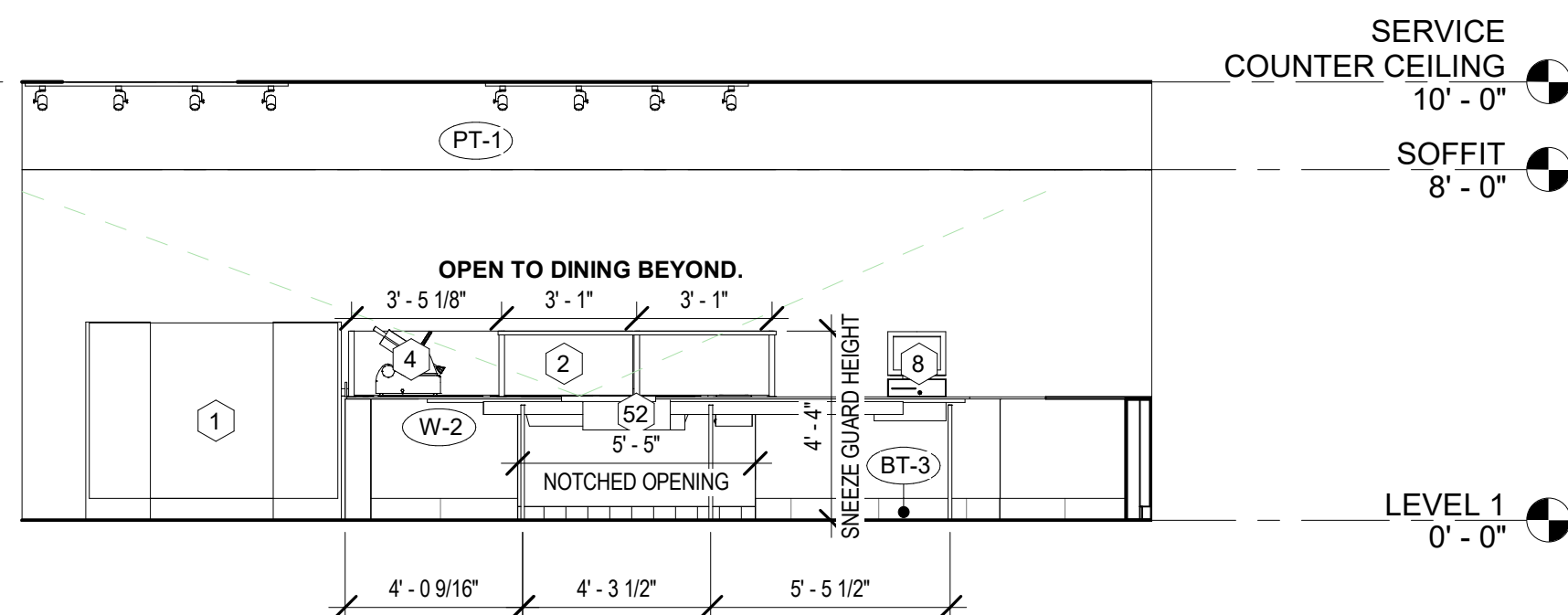
N7 SOUTH ELEVATION - SERVICE COUNTER/CLEAN-UP
1/4" = 1'-0"



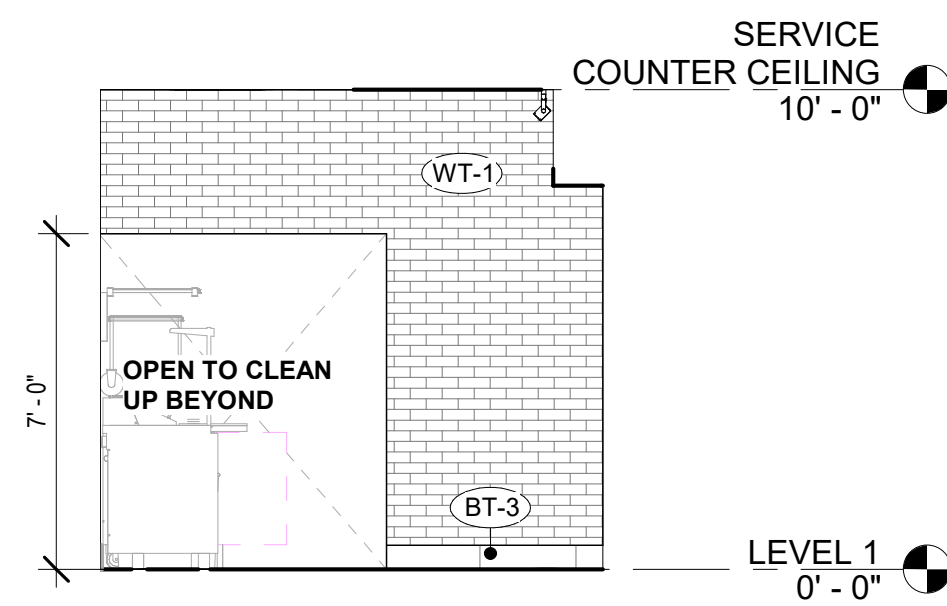
S1 WEST ELEVATION - CLEAN UP
1/4" = 1'-0"



S4 EAST ELEVATION - CLEAN UP
1/4" = 1'-0"



S8 NORTH ELEVATION - SERVICE COUNTER
1/4" = 1'-0"



S13 WEST ELEVATION - SERVICE COUNTER
1/4" = 1'-0"

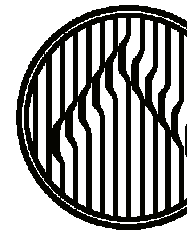
SHEET NOTES:

- ALL WALL-MOUNTED FIXTURES WILL REQUIRE BLOCKING, ALL WOOD BLOCKING TO BE FIRE RETARDANT TREATED WOOD.
- REFER TO FINISHES LEGEND - (A2.1) FOR FINISH DESIGNATIONS.
- REFER TO FINISH SCHEDULE - (A2.1) FOR CEILING TYPES
- REFER TO R1.1 FOR EQUIPMENT INFORMATION

KEYNOTES:

KEY #	KEYNOTE TEXT
002	EXISTING ELECTRIC PANEL TO REMAIN, REF. ELECTRICAL DRAWINGS
012	EXISTING MOP SINK TO REMAIN. G.C. TO ENSURE PROPER WORKING ORDER AND CLEAN TO LIKE-NEW CONDITIONS.
085	PROVIDE FIRE EXTINGUISHER PER IFC SECTION 906.
095	GC TO ADD SYMBOL OF ACCESSIBILITY COMPLYING WITH ADA REQUIREMENTS.
133	1/2" X 3 1/2" MOLDING AROUND TOP AND SIDE EDGES, PAINT PT-1 (TYP.).
228	EXISTING SINK TO REMAIN.
248	EXISTING WALL/WALL BASE TO REMAIN. G.C. TO REPAIR PATCH TO NEW LIKE CONDITION.
251	EXISTING WALL SHELF TO REMAIN.
255	EXISTING POLYCRETE DUR-A-FLEX COVED BASE.

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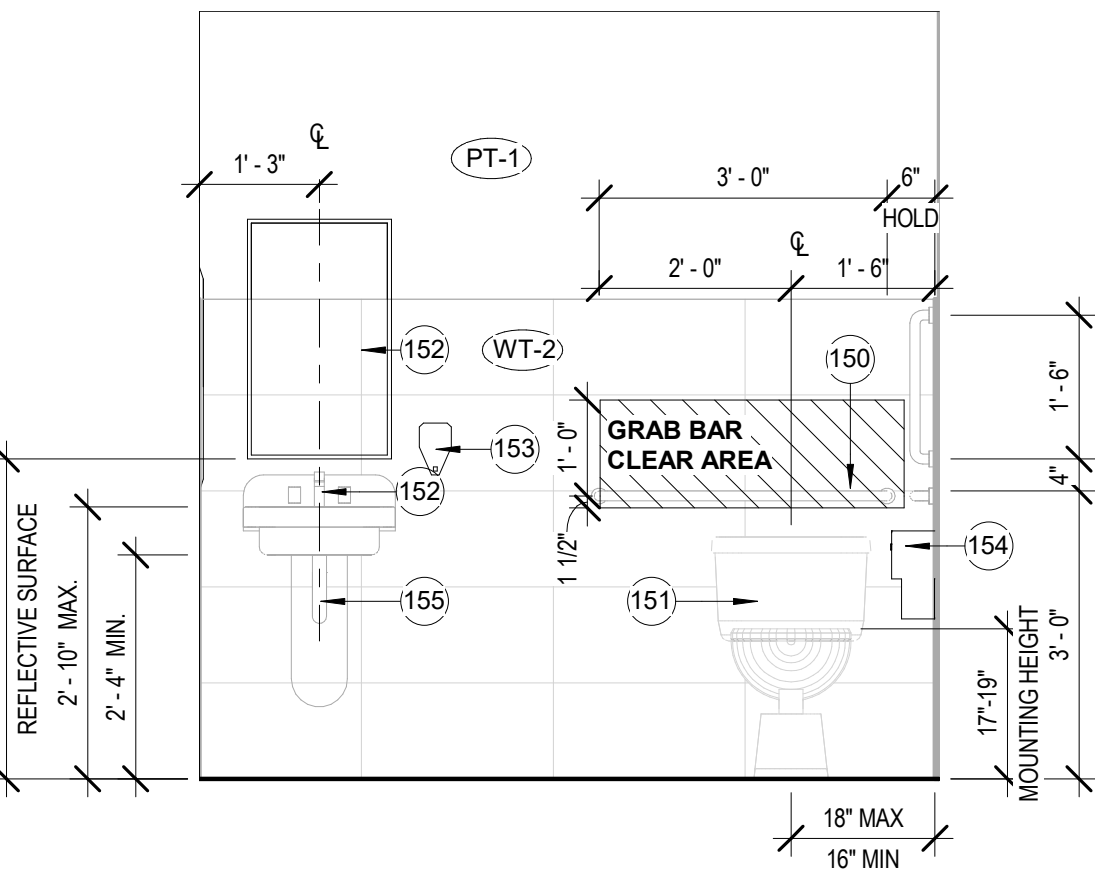
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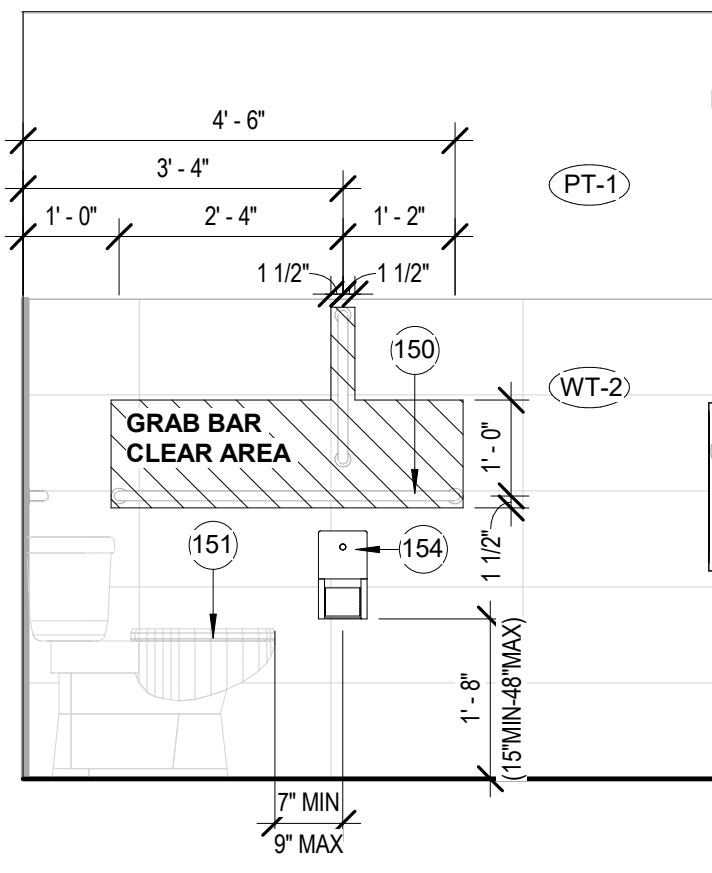
- ALL WALL-MOUNTED FIXTURES WILL REQUIRE BLOCKING, ALL WOOD BLOCKING TO BE FIRE RETARDANT TREATED WOOD.
- REFER TO FINISHES LEGEND - (A2.1) FOR FINISH DESIGNATIONS.
- REFER TO FINISH SCHEDULE - (A2.1) FOR CEILING TYPES
- REFER TO R1.1 FOR EQUIPMENT INFORMATION

KEYNOTES:

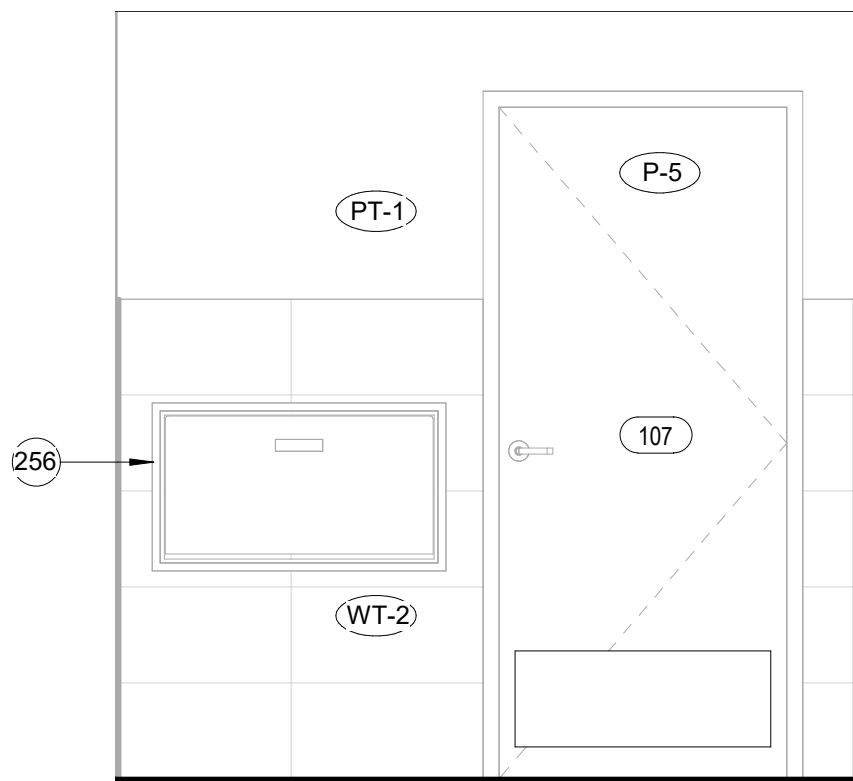
KEY #	KEYNOTE TEXT
150	ADA GRAB BAR. DIAMETER OF THE GRIPPING SURFACE PF THE GRAB BAR SHALL BE 1-1/4" TO 1-1/2". BARS SHOULD MAINTAIN A DISTANCE OF 1-1/2" FROM INSIDE OF BAR TO FINISH WALL.THE REAR WALL GRAB BAR SHALL BE 36 INCHES (915MM) LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES (305MM) MINIMUM ON ONE SIDE AND 24 INCHES (610MM) MINIMUM ON THE OTHER SIDE.
151	EXISTING ADA COMPLIANT WATER CLOSET.
152	EXISTING ADA COMPLIANT LAVATORY.
153	SOAP DISPENSER PURCHASED BY OWNER AND INSTALLED BY GC.
154	TOILET PAPER DISPENSER PROVIDED AND INSTALLED BY GC. TOILET PAPER DISPENSER TO BE MOUNTED 15" MIN. A.F.F. AND 1 1/2" MIN. BELOW GRAB BARS. IF MOUNTED ABOVE GRAB BARS, ENSURE 12" MIN. OF SPACE BETWEEN BOTTOM OF DISPENSER AND TOP OF GRAB BAR. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.
155	ADA PIPE GAURD PROVIDED AND INSTALLED BY GC.
156	ADA COMPLIANT MIRROR PROVIDED AND INSTALLED BY GC.
157	RECESSED PAPER TOWEL DISPENSER PURCHASED BY OWNER AND INSTALLED BY GC. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES (685MM) AND NOT MORE THAN 80 INCHES (2030MM) ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES (100MM) MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.
162	EXISTING LAVATORY TO REMAIN. GC TO ENSURE LIKE NEW CONDITION AND ADA COMPLIANCE.
256	EXISTING BABY CHANGING STATION TO BE RE-USED CLEAN TO LIKE NEW CONDITION.



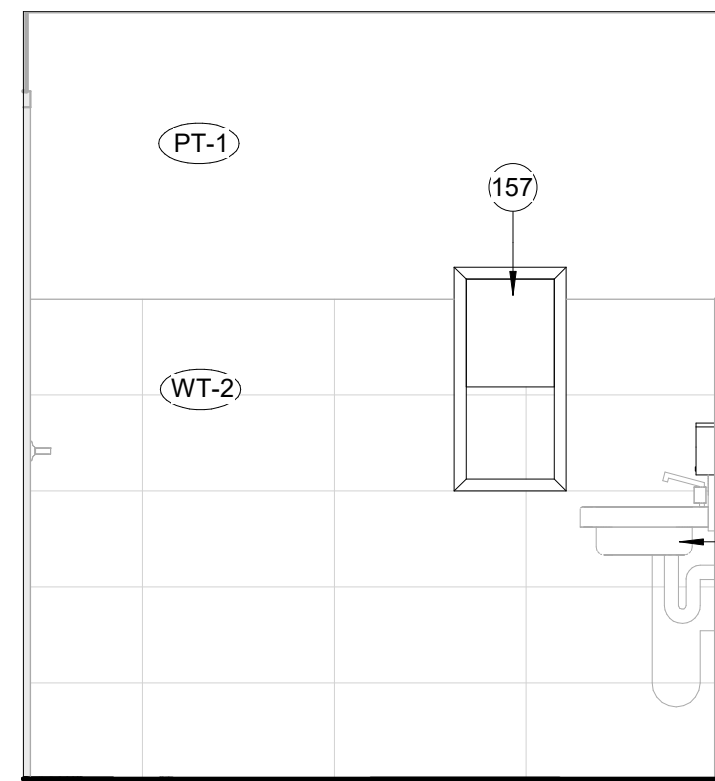
E1 MEN'S RR
1/2" = 1'-0"



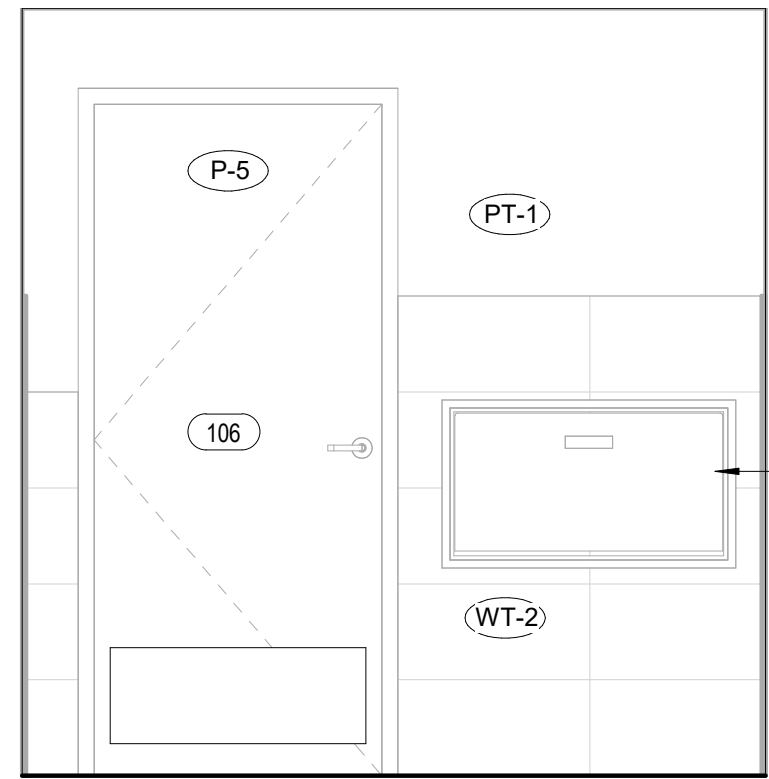
E5 MEN'S RR
1/2" = 1'-0"



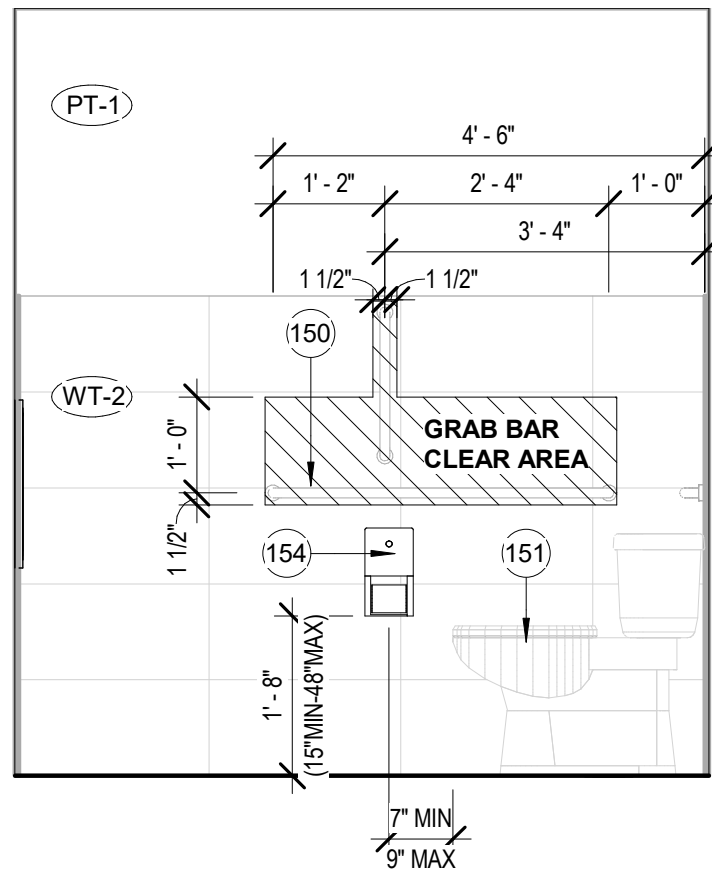
E8 MEN'S RR
1/2" = 1'-0"



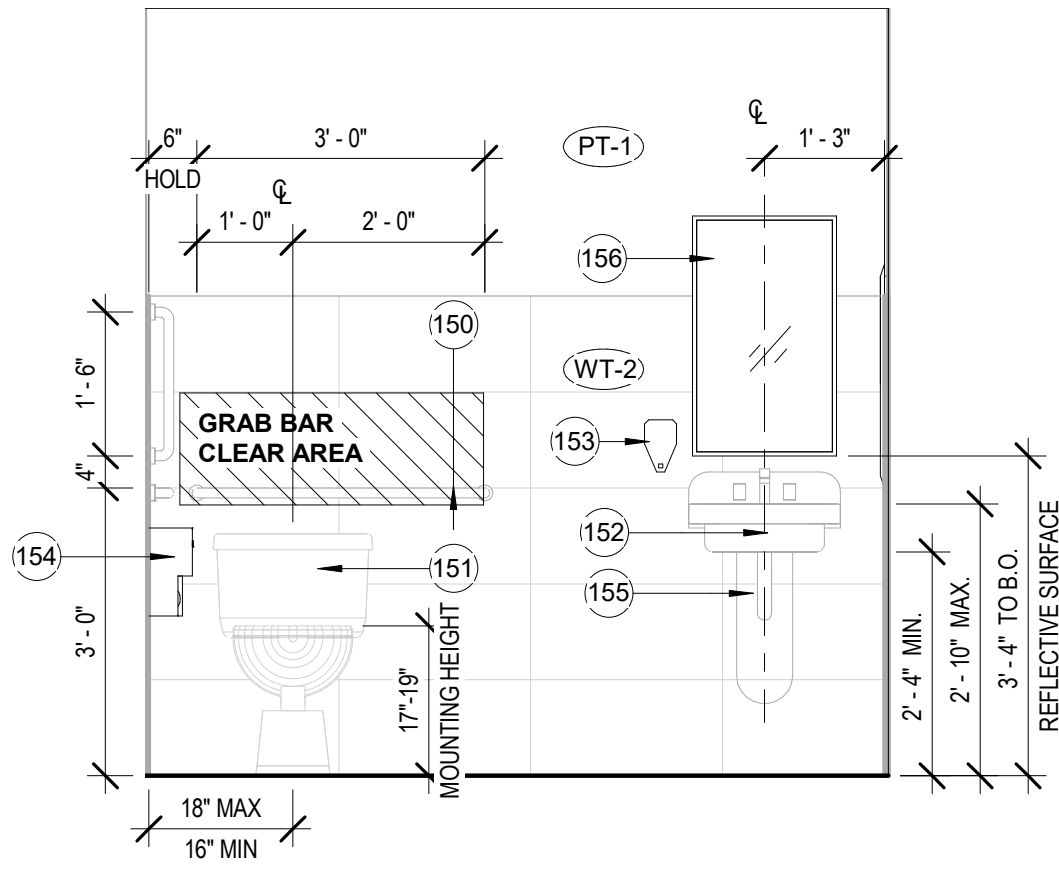
E11 MEN'S RR
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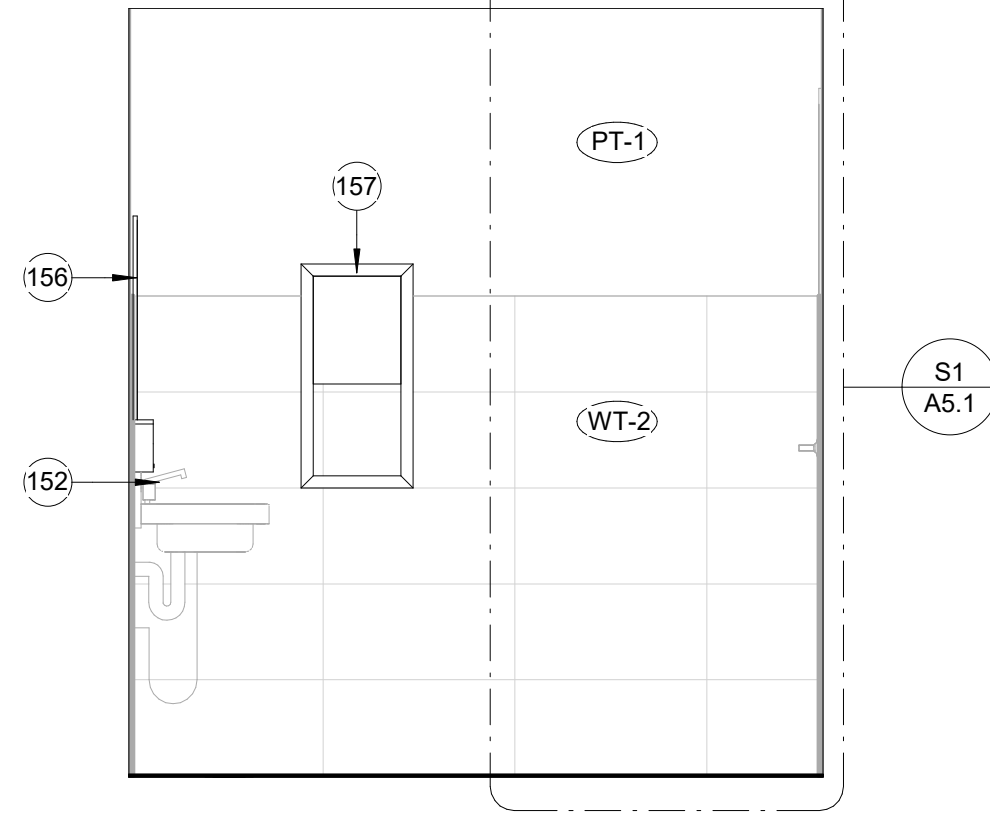
K1 WOMEN'S RR
1/2" = 1'-0"



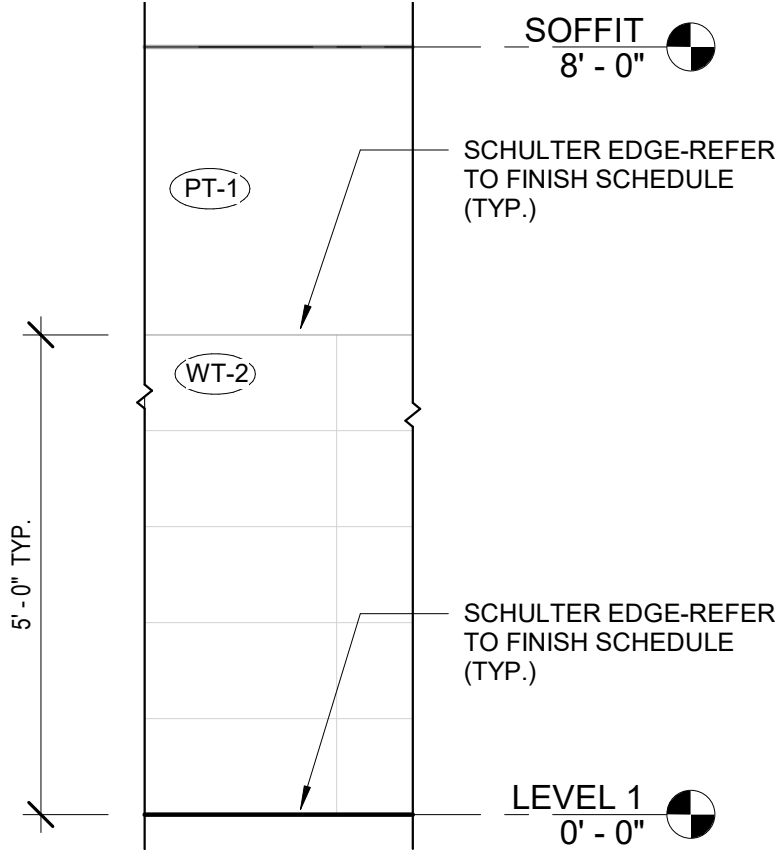
K4 WOMEN'S RR
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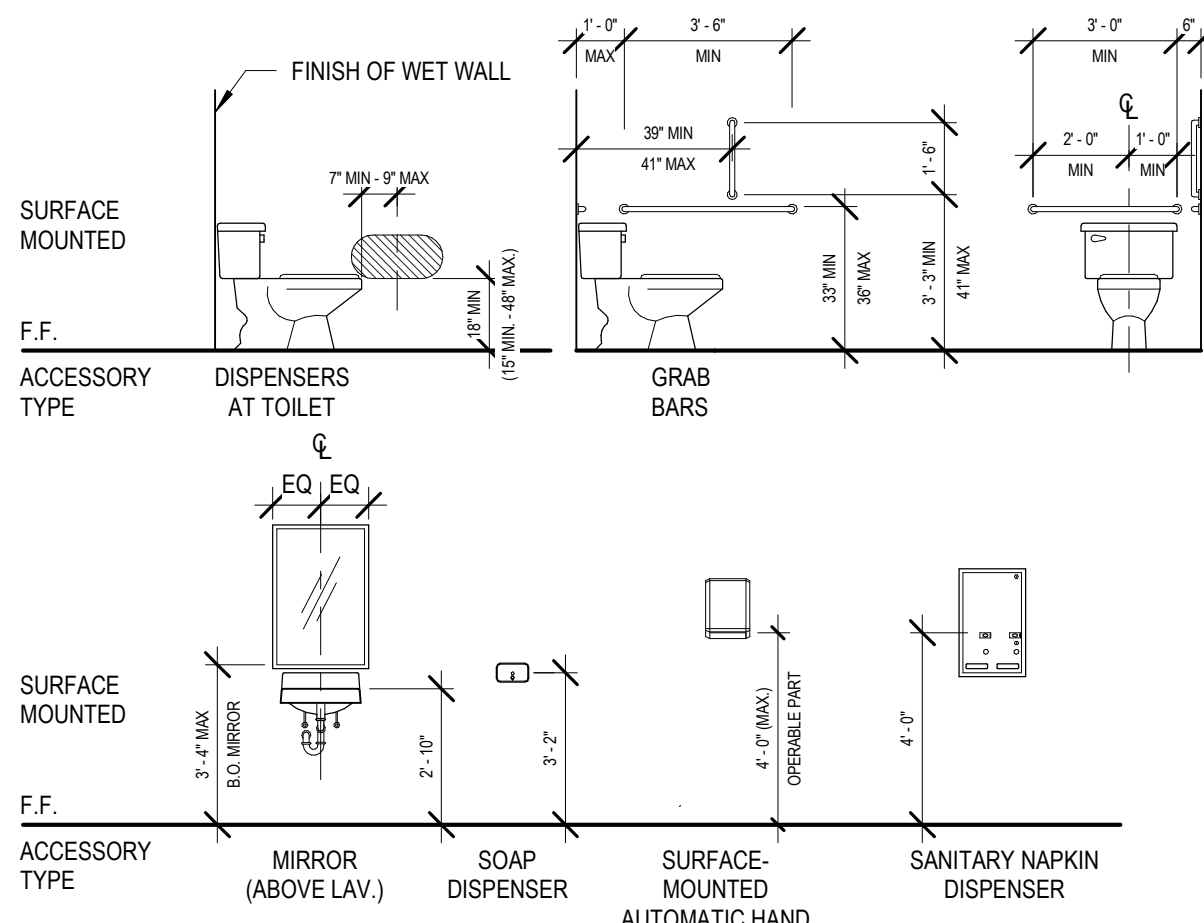
K7 WOMEN'S RR
1/2" = 1'-0"



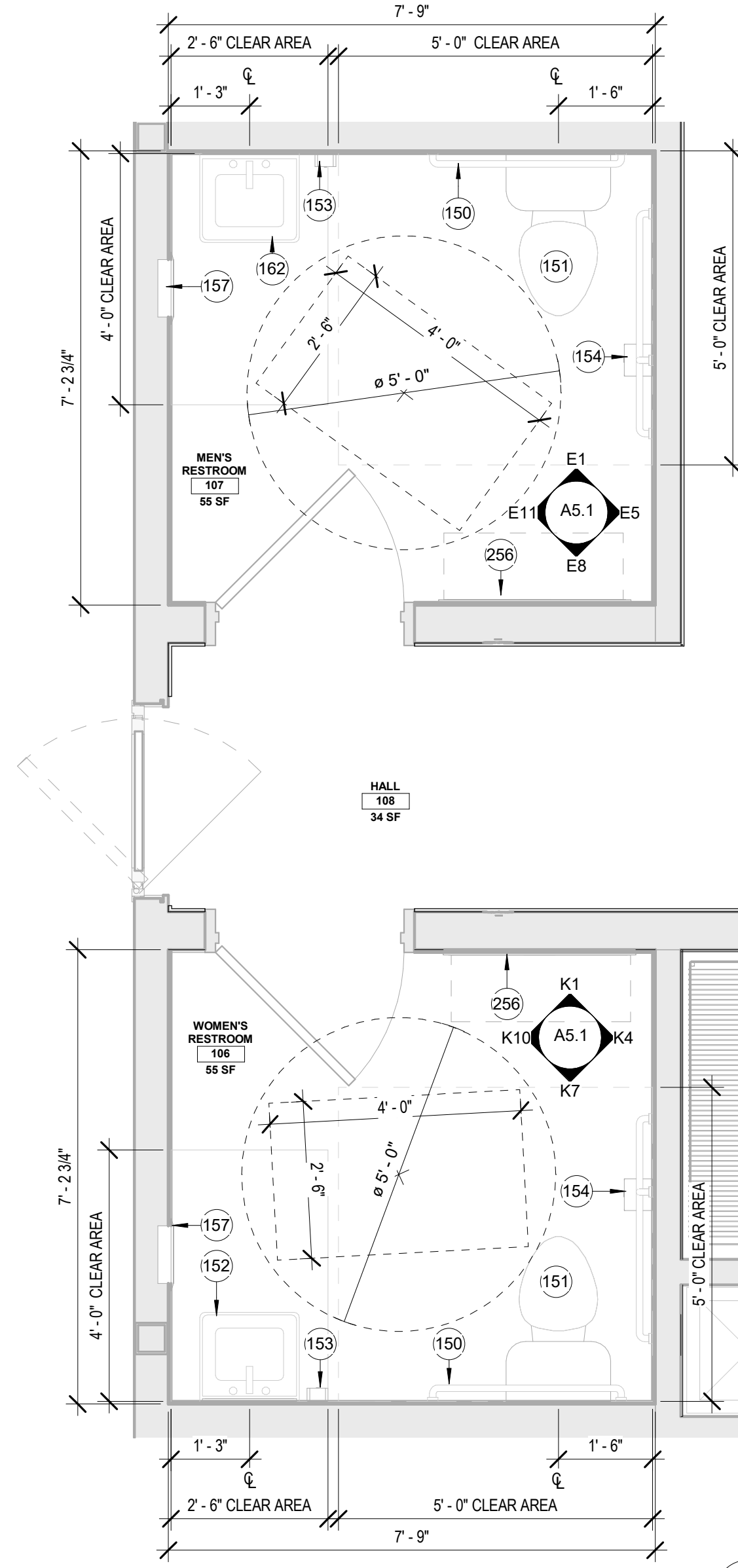
K10 WOMEN'S RR
1/2" = 1'-0"



S1 RESTROOM WALL TILE
1/2" = 1'-0"

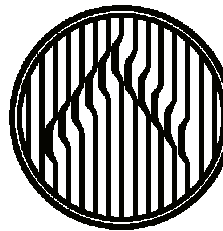


S7 RESTROOM MOUNTING HEIGHTS
1/4" = 1'-0"



S13 ENLARGED RESTROOM PLAN
1/2" = 1'-0"

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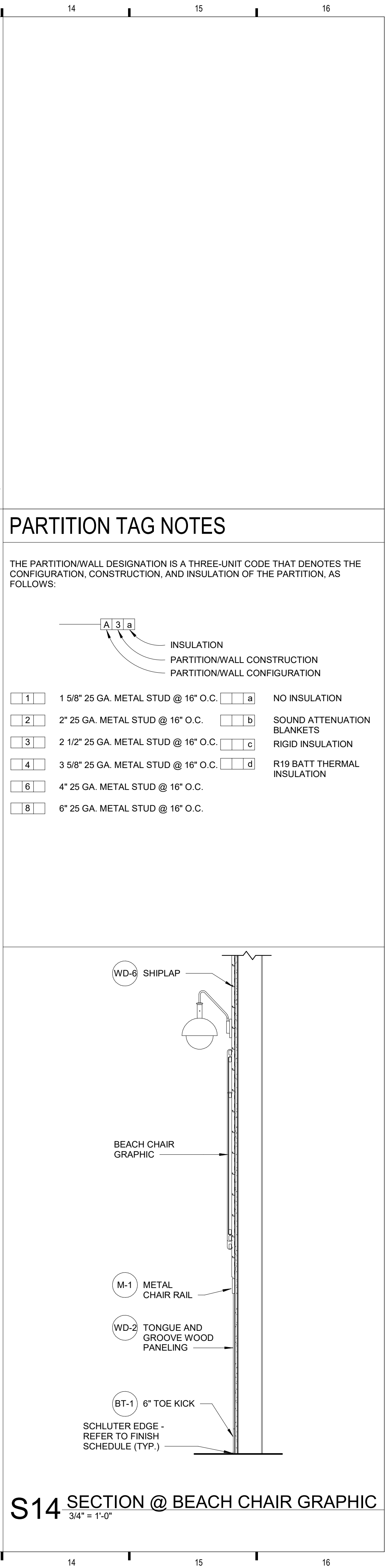
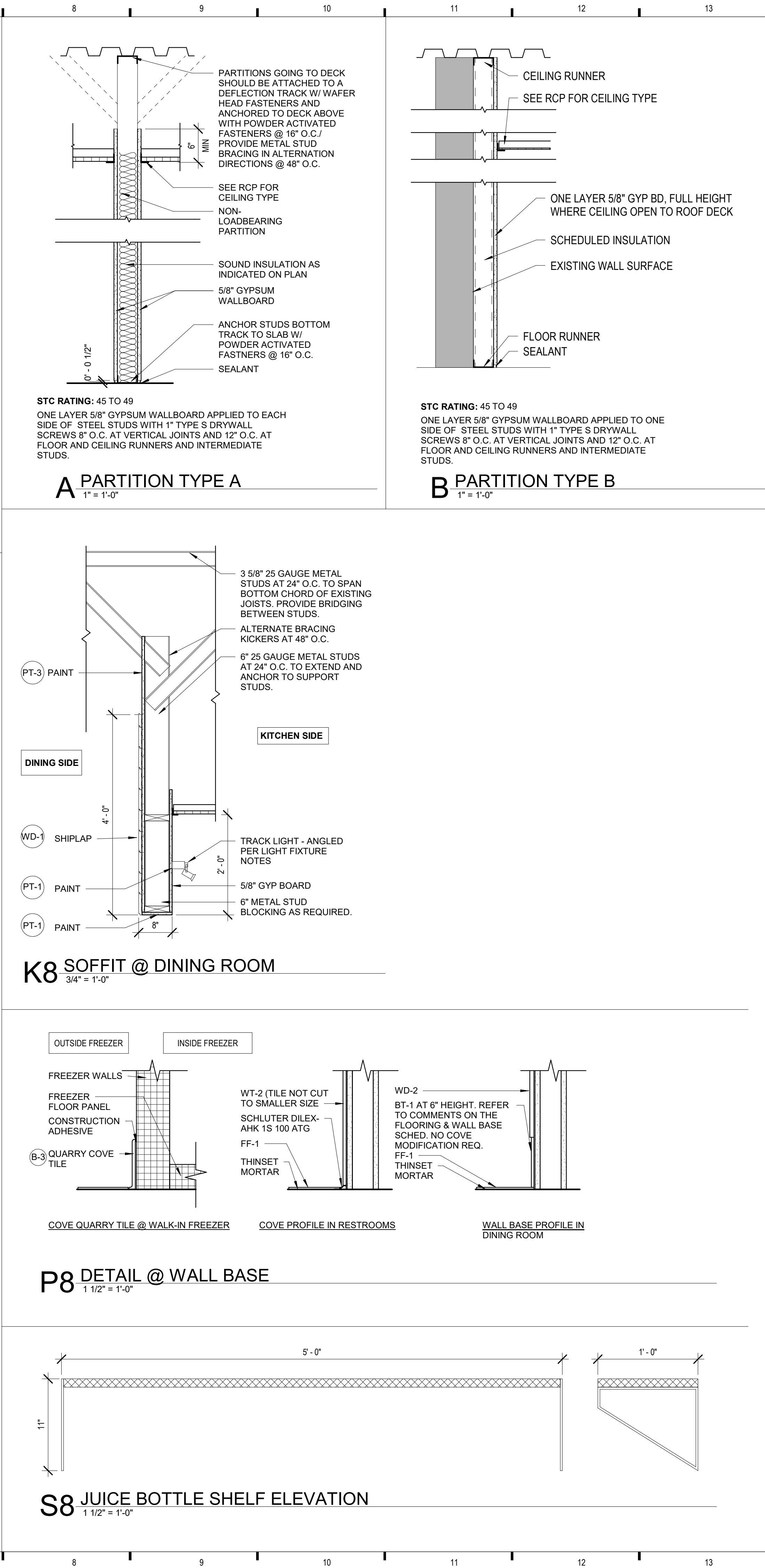
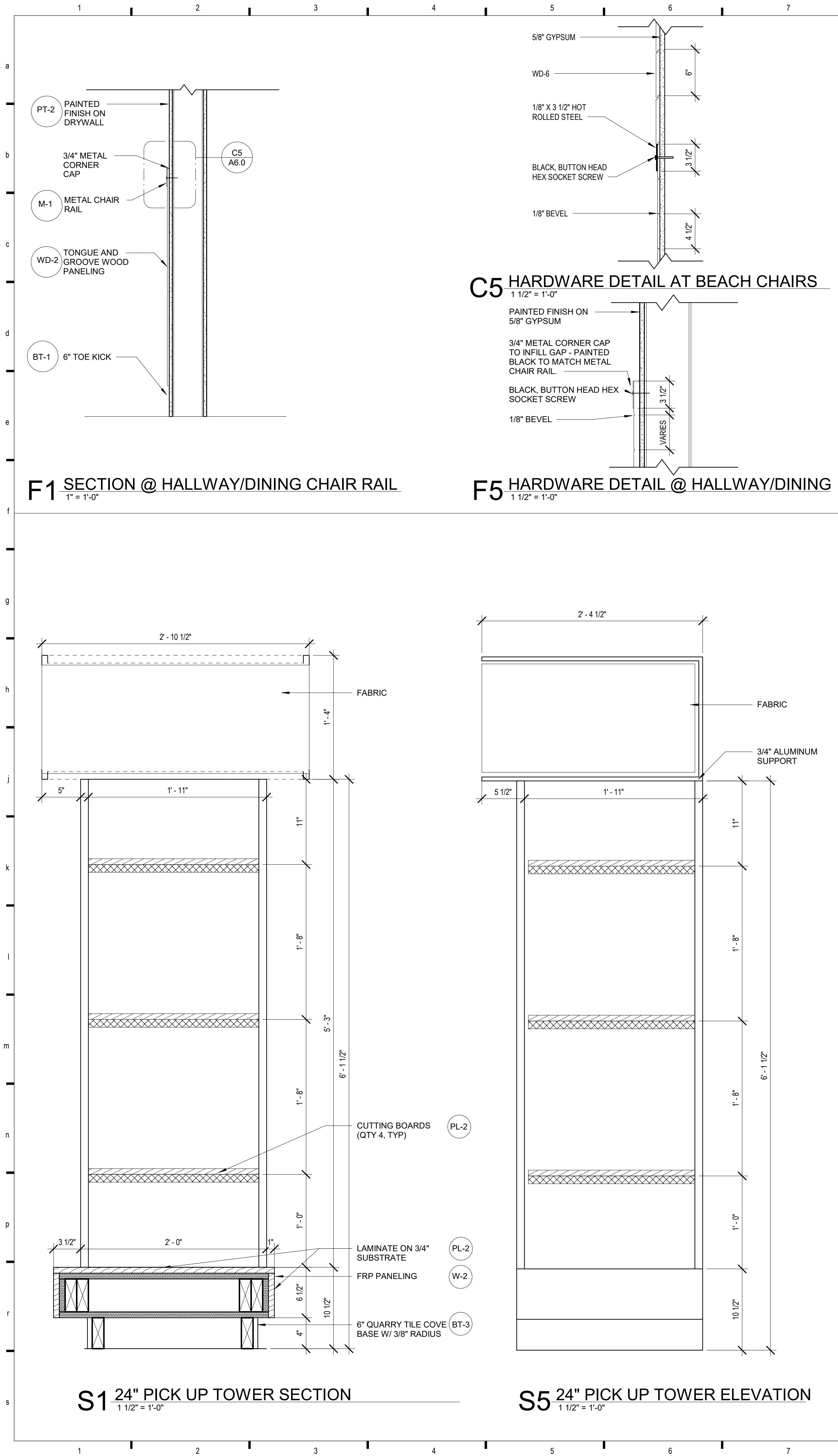


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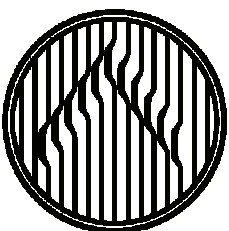
INTERIOR
ELEVATIONS

Project # 43423-M001
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A5.1



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STATE OF MISSOURI
BRIAN J. JOSEPH
0002011672
ARCHITECT

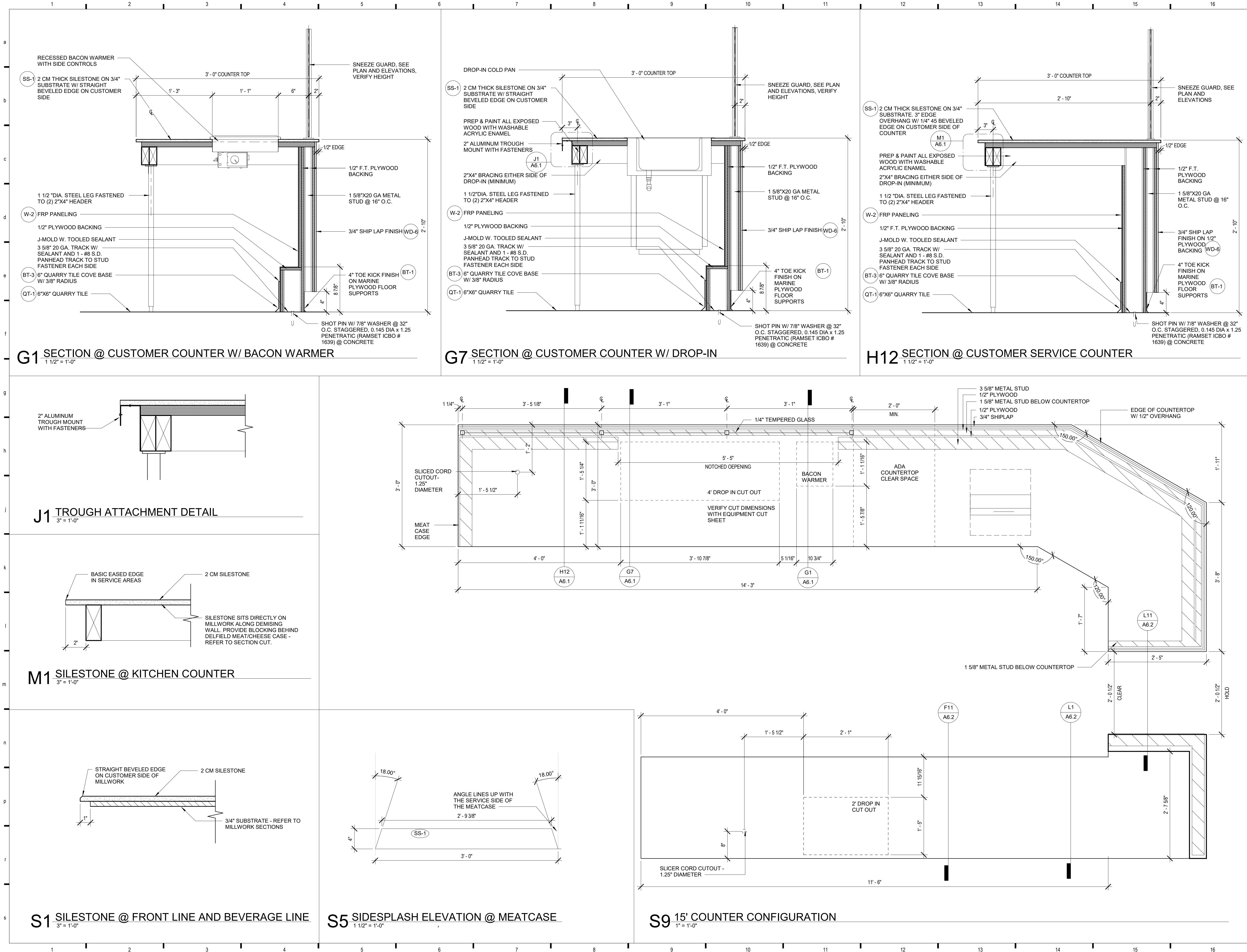
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PARTITION TYPES & DETAILS

Project # 43423-M001
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#	Description	Date
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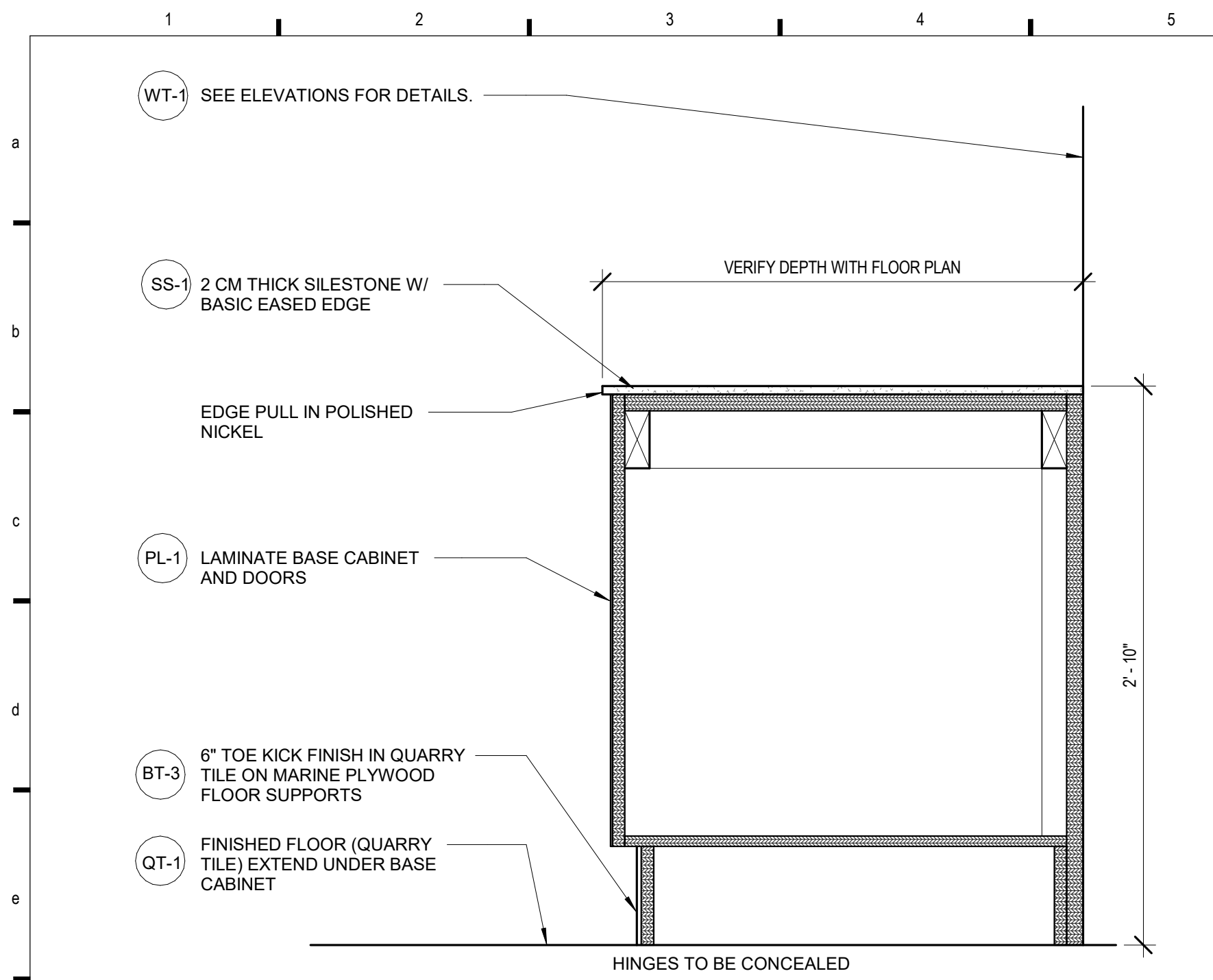
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MILWORK DETAILS

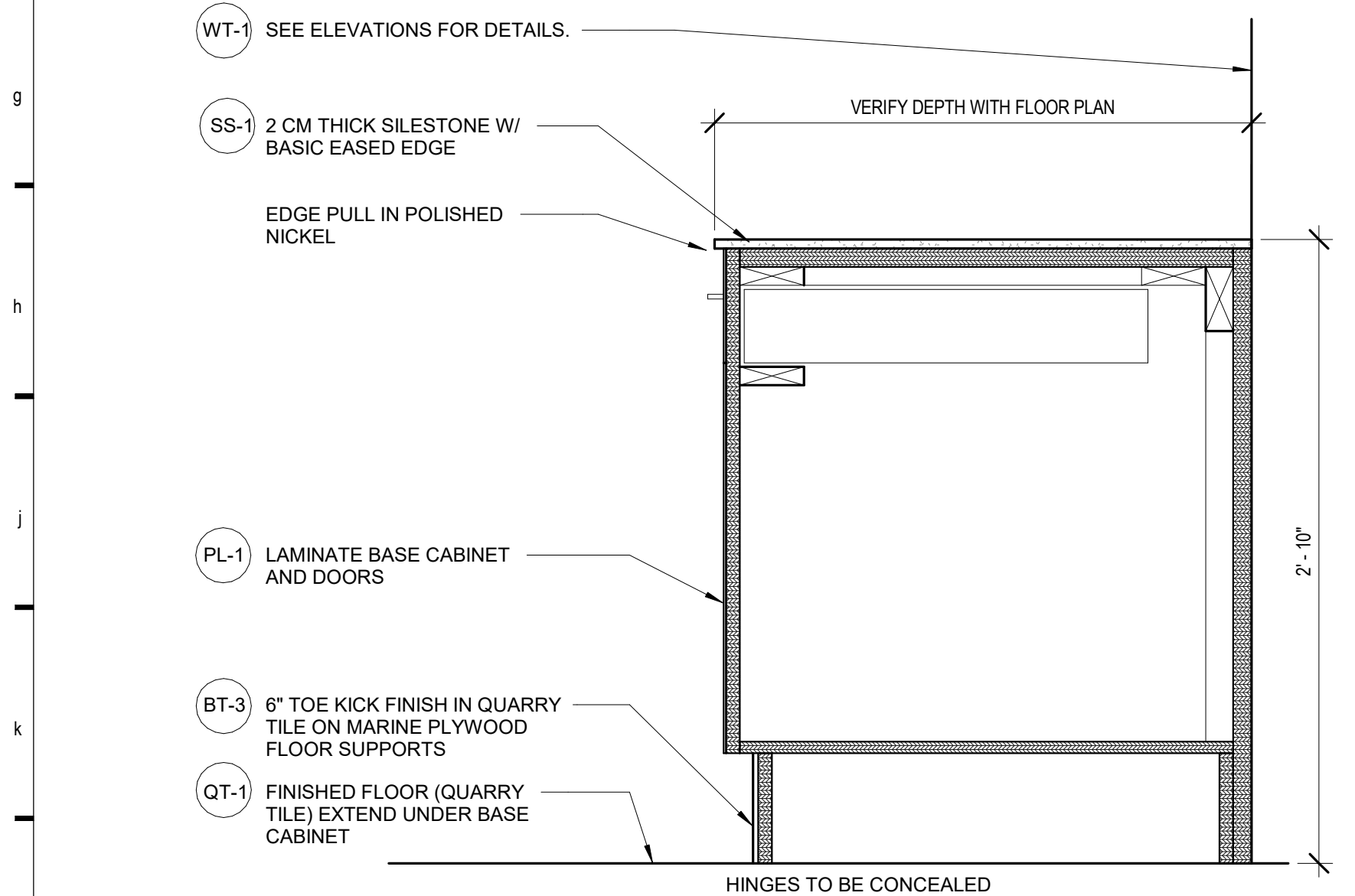
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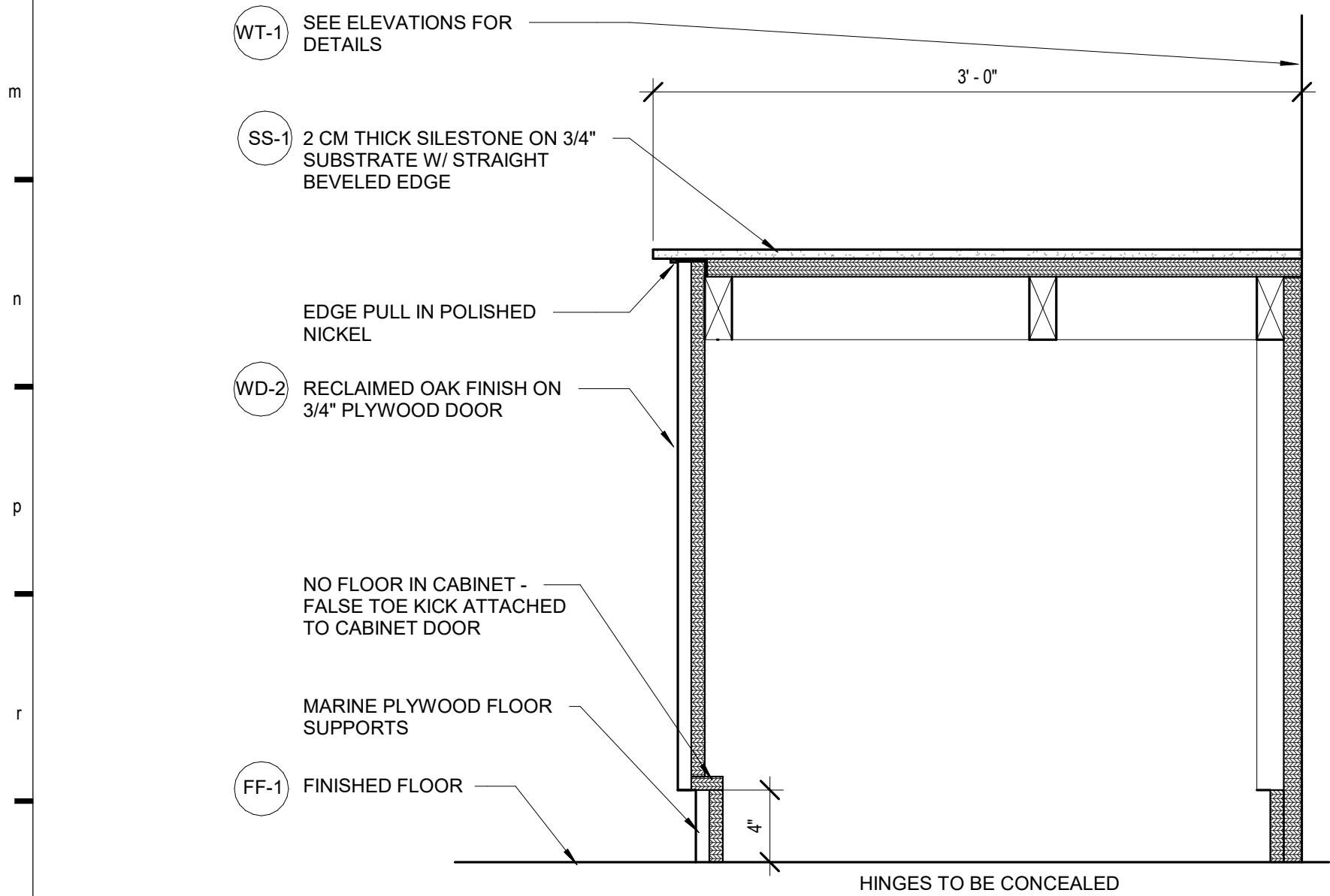
2020/02/11 12:31 AM JERSEY MIKES - ST. JOSEPH



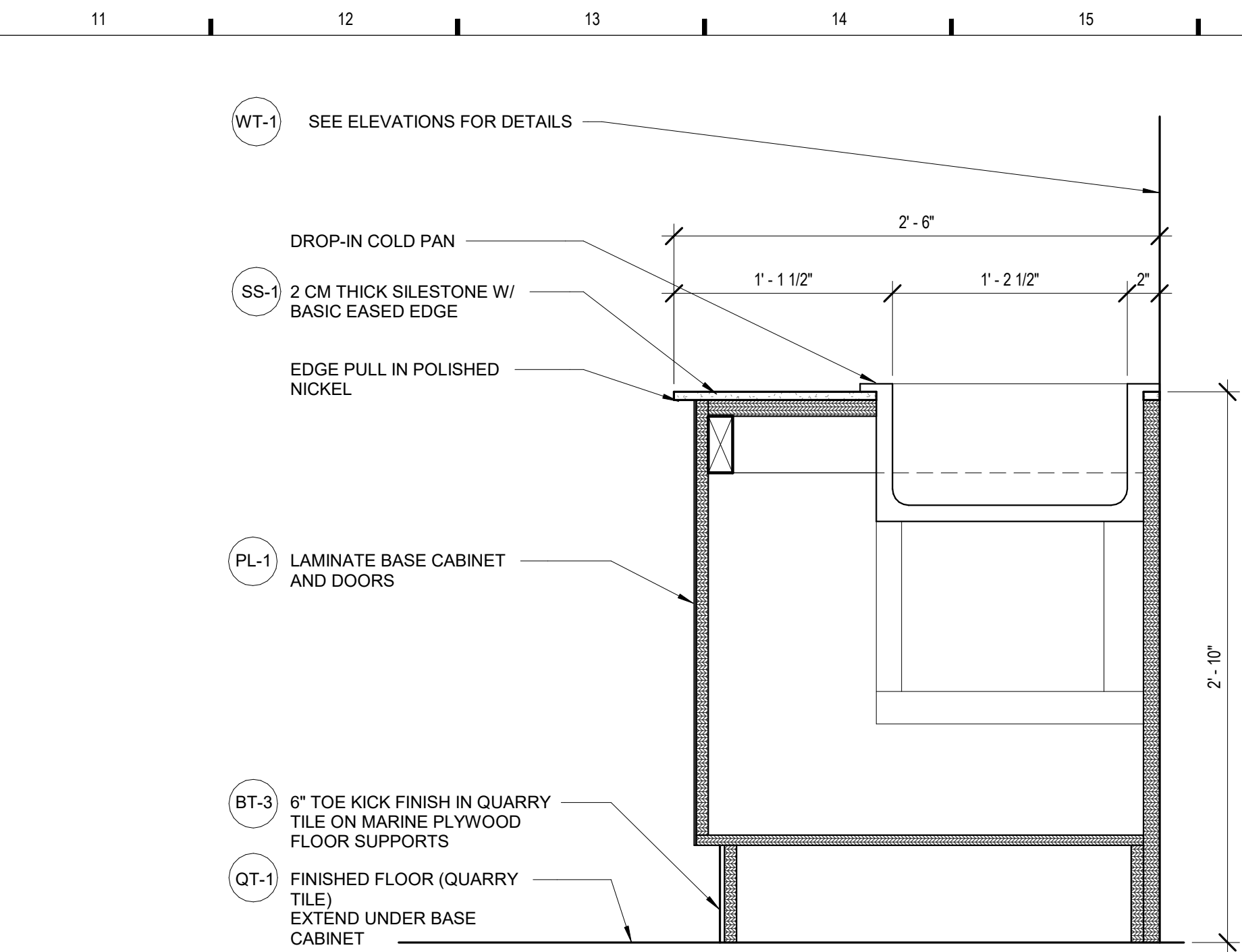
F1 SECTION @ DEMISING WALL
1 1/2" = 1'-0"



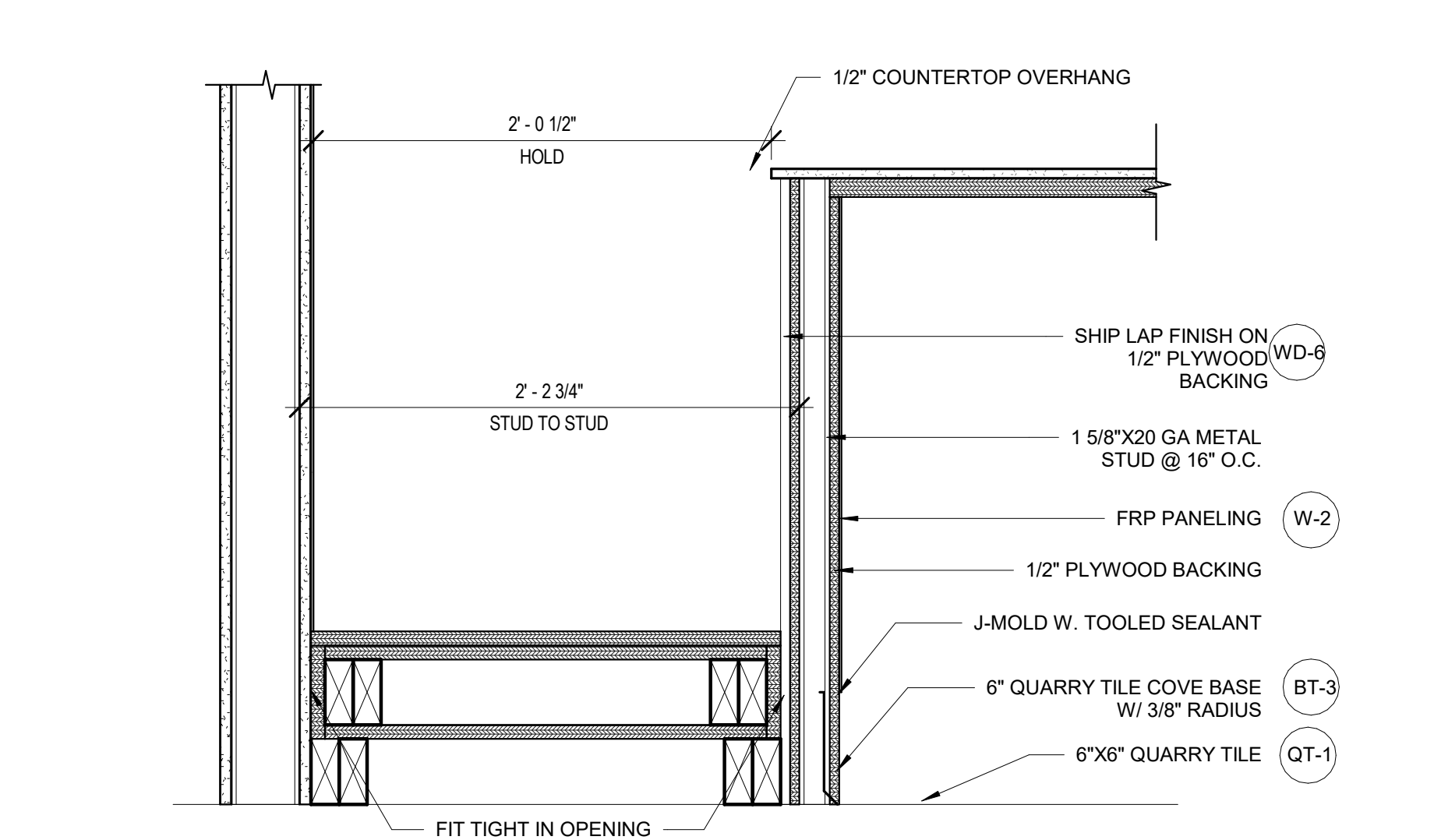
L1 SECTION @ DRAWER AND DOOR BASE
1 1/2" = 1'-0"



S1 SECTION @ PEPSI FOUNTAIN BASE CABINET
1 1/2" = 1'-0"



F11 SECTION @ 2'-0" DROP-IN UNIT1
1 1/2" = 1'-0"



L11 SECTION @ TAKE OUT SHELF
1 1/2" = 1'-0"

DIVISION 16 - ELECTRICAL SPECIFICATIONS

SECTION 16100
ELECTRICAL SPECIAL CONDITIONS

1. GENERAL

- A. APPLICABLE PROVISIONS OF AIA DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", AND DIVISION 1 GENERAL CONDITIONS GOVERN WORK UNDER THIS SECTION AND ALL OTHER SECTIONS OF DIVISION 16.
- B. APPLICABLE PROVISIONS OF THIS SECTION GOVERN WORK UNDER ALL OTHER SECTIONS OF DIVISION 16. WORK COVERED BY THIS SECTION SHALL CONSIST OF PROVIDING ALL MATERIAL, LABOR, EQUIPMENT AND SERVICES NECESSARY FOR A COMPLETE, TESTED AND ADJUSTABLE ELECTRICAL INSTALLATION READY FOR OPERATION AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.
- C. THE TERM CONTRACTOR AS USED IN THIS SECTION SHALL MEAN ANY CONTRACTOR OR SUBCONTRACTOR WHO HAS CONTRACTED TO PERFORM WORK INCLUDED IN AND DEFINED BY THIS SECTION AND ALL OTHER SECTIONS OF DIVISION 16.

2. CONTRACTOR'S RESPONSIBILITY

- A. PRIOR TO SUBMITTING HIS BID, CONTRACTOR SHALL CAREFULLY EXAMINE THESE CONSTRUCTION DOCUMENTS, THE DEVELOPER'S EXHIBITS, AND THE SITE, TO INQUIRE FULLY INTO DIFFICULTIES AND COSTS OF WORK, AND TO DETERMINE THE SCOPE AND CHARACTER OF WORK TO BE DONE. CONTRACTOR SHALL INCLUDE ALL NECESSARY COSTS TO LOCATE AND/OR EXTEND ALL UTILITIES INCLUDING LIGHTING PANELS, POWER PANELS, ELECTRICAL SERVICE, PHONE SERVICE AND/OR MODIFY EQUIPMENT TO MEET THE INTENT OF THE CONTRACT DOCUMENTS. THE OWNER, OWNER'S AGENT, ARCHITECT, ENGINEER OR DESIGNER SHALL NOT BE RESPONSIBLE FOR FAILURE OF THE CONTRACTOR TO DETERMINE DIFFICULTIES AND COSTS IN THE PROJECT OR FOR HIS OVERLOOKING OF THE REQUIREMENTS.
- B. IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THE PLANS AND SPECIFICATIONS, OR IF THERE ARE ANY REQUIREMENTS WHICH ARE AMBIGUOUS IN THE CONTRACTOR'S OPINION, HE SHOULD CALL THIS TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATIONS OF THE ARCHITECT AND ENGINEER.
- C. CONTRACTOR SHALL SCHEDULE HIS WORK IN COOPERATION WITH OTHER TRADES INSTALLING INTERRELATED WORK. ALL WORK SHALL BE SCHEDULED TO MAINTAIN SERVICE TO ALL REQUIRED AREAS DURING THE COURSE OF THE CONSTRUCTION EXCEPT FOR SHORT TERM PLANNED SHUTDOWNS, ANY OF WHICH SHALL BE PRE-SCHEDULED WITH THE OWNERS AGENT AND THE LANDLORD.

3. WORKMANSHIP AND GUARANTEE

- A. IN ENTERING INTO A CONTRACT COVERING THIS WORK, THE CONTRACTOR ACCEPTS THE SPECIFICATIONS, AND GUARANTEES THAT THE WORK WILL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR FURTHER GUARANTEES THAT THE WORKMANSHIP AND MATERIAL WILL BE OF THE BEST PROCURABLE AND THAT NONE BUT EXPERIENCED WORKMEN OF EACH PARTICULAR CLASS OF WORK WILL BE EMPLOYED. CONTRACTOR FURTHER GUARANTEES TO REPLACE AND MAKE GOOD AT HIS OWN EXPENSE ANY DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL WHICH MAY DEVELOP WITHIN ONE (1) YEAR AFTER FINAL PAYMENT AND ACCEPTANCE BY THE ARCHITECT.

4. CODES AND STANDARDS

- A. CONTRACTOR WILL COMPLY IN ALL RESPECTS WITH THE ADOPTED BUILDING CODES, APPLICABLE LAWS, ORDINANCES, AND REGULATIONS AS MAY APPLY ACCORDING TO THE RULES OF THE CONTROLLING PUBLIC OFFICIAL SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE LAWS, ORDINANCES AND REGULATIONS, OR WHICH DOES NOT RECEIVE THE APPROVAL OF THE CONTROLLING PUBLIC OFFICIAL. HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UNDERWRITER'S LABORATORY LABEL.

5. FEES ON PERMITS

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAKING PAYMENT FOR ALL FEES, PERMITS AND INSPECTIONS RELATING TO HIS WORK.

6. CONTRACT DRAWINGS

- A. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND INTENT OF THE DESIGN AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONDITIONS AND THE WORK OF OTHER TRADES WILL PERMIT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED, NOR IS IT IMPLIED THAT ALL CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE SYSTEMS OR BUILDING COMPONENTS HAVE BEEN INDICATED. THE CONTRACTOR SHALL INVESTIGATE ALL EXISTING CONDITIONS AFFECTING THE WORK AND ARRANGE HIS WORK ACCORDINGLY, PROVIDING SUCH FITTINGS, OFFSETS, ACCESSORIES AND DEVICES AS MAY BE REQUIRED. THE DRAWINGS AND SPECIFICATIONS ARE MUTUALLY COMPLEMENTARY, AND ANY WORK REQUIRED BY ONE BUT NOT BY THE OTHER SHALL BE PERFORMED BY BOTH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS AND SERVICES REQUIRED FOR A COMPLETE AND WORKING PROJECT AT NO ADDITIONAL COST EVEN THOUGH EACH AND EVERY NECESSARY ELEMENT THEREOF IS NOT SPECIFICALLY IDENTIFIED HEREIN EACH AND EVERY NECESSARY ELEMENT THEREOF IS NOT SPECIFICALLY IDENTIFIED HEREIN.
- B. CONTRACTOR SHALL NOT SCALE FROM THE DRAWINGS BUT SHALL FOLLOW THE ARCHITECTURAL DRAWINGS OR EXISTING BUILDING CONDITIONS WHERE APPLICABLE, IN ESTABLISHING DIMENSIONS AND LINES OF RUN, SINCE DIMENSIONS ON THE FINAL ARCHITECTURAL DRAWINGS OR AT THE SITE MAY NOT COINCIDE WITH THOSE SHOWN ON THE ELECTRICAL DRAWINGS. THE CONTRACTORS SHALL VERIFY WITH THE DIMENSIONED ARCHITECTURAL DRAWINGS OR THE SITE CONDITIONS THE EXACT MATERIAL QUANTITIES AND LENGTHS NECESSARY.
- C. SIGNIFICANT DEVIATIONS OR CHANGES FROM THE DRAWINGS WHICH ARE REQUIRED TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS MUST BE REVIEWED WITH THE ARCHITECT AND APPROVED BEFORE PROCEEDING.

7. SHOP DRAWINGS

- A. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, FOUR (4) COPIES MINIMUM, FOR ALL MANUFACTURED PRODUCTS. EACH SHOP DRAWING SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO ASSURE THAT ALL DIMENSIONS, QUANTITIES, CONNECTIONS, CAPACITIES AND ACCESSORIES SHOWN ARE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, AND SHALL BE MARKED OR STAMPED TO CONFIRM THAT SUCH REVIEW WAS MADE AND COMPLIANCE WAS CONFIRMED.
- B. APPROVAL OF SHOP DRAWINGS BY THE OWNER, OWNER'S AGENT, ARCHITECT, ENGINEER OR DESIGNER, WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH ALL TERMS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PERFORMANCE OF ALL EQUIPMENT PURCHASED, FOR PROPER FIT, AND OTHER DIMENSIONAL REQUIREMENTS.

8. RECORD DRAWINGS

- A. CONTRACTOR SHALL MAINTAIN AT THE JOB SITE ONE SET OF DOCUMENTS AS "RECORD DRAWINGS" FOR THE PURPOSE OF DAILY MARKING OF ALL SUBSTANTIAL REVISIONS TO THE DOCUMENTS INCLUDING BUT NOT LIMITED TO ELECTRICAL CHANGES, AND LOCATIONS OF UTILITIES, PANELBOARDS, DISCONNECTS, STARTERS AND OTHER DEVICES REQUIRING PERIODIC OPERATIONAL ATTENTION, ADJUSTMENT, OR SERVICE INCLUDING ACCESS THERETO, AT THE COMPLETION OF THE PROJECT, THIS SET SHALL BE RETURNED TO THE ARCHITECT FOR THE PURPOSE OF MAKING FINAL "AS-BUILT" DRAWINGS.

9. EQUIPMENT SUBSTITUTION

- A. SPECIFIC MANUFACTURERS AND MODELS OF EQUIPMENT HAVE BEEN USED IN THE DEVELOPMENT OF THE DRAWINGS AND DESIGNS. THIS CONTRACTOR MUST SUBMIT TO THE OWNER ANY CHANGES AND/OR SUBSTITUTIONS FOR APPROVAL PRIOR TO INSTALLATION OR EXECUTION. ANY CHANGES WHICH DO NOT RECEIVE THE OWNER'S APPROVAL MAY BE SUBJECT TO REMOVAL OR REPLACEMENT AS ORIGINALLY SPECIFIED, AND WILL BE AT THE CONTRACTOR'S EXPENSE.
- B. IF THIS CONTRACTOR SUBSTITUTES FOR SPECIFIED EQUIPMENT ANY OTHER EQUIPMENT WHICH REQUIRES CHANGES TO THE DESIGN, ALL COST OF REDESIGN AND RECONFIGURATION RESULTING FROM SAID SUBSTITUTION SHALL BE BORNE BY THE SUBMITTING CONTRACTOR.

10. EQUIPMENT INSTALLATION AND SUPPORT

- A. CONTRACTOR SHALL SUPPORT PLUMB, RIGID AND TRUE-TO-LINE ALL WORK AND EQUIPMENT INSTALLED. THIS CONTRACTOR SHALL DETERMINE HOW EQUIPMENT, FIXTURES, ETC., ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED AND SHALL PROVIDE ACCESSORIES REQUIRED FOR PROPER SUPPORT WHETHER SHOWN ON THE DRAWINGS OR NOT. IF SUPPORTS ARE REQUIRED, CONTRACTOR SHALL SUBMIT DRAWINGS TO THE ARCHITECT FOR APPROVAL.
- B. PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTALLATION AND MAINTENANCE LITERATURE. COMPONENTS REQUIRING PERIODIC MAINTENANCE OR ADJUSTMENTS SHALL BE LOCATED OR INSTALLED AS TO PERMIT ACCESS WITHOUT DAMAGE TO STRUCTURE, FINISHES OR OTHER EQUIPMENT.
- C. ALL CONDUIT CONNECTING TO SWITCHGEAR, PANELS, MOTORS, AND OTHER EQUIPMENT SHALL BE INSTALLED WITHOUT STRAIN AT THE CONNECTIONS. THE CONTRACTOR MAY BE REQUIRED, AS DIRECTED, TO DISCONNECT CONDUITS TO DEMONSTRATE THAT THEY HAVE BEEN SO CONNECTED.

11. DEMOLITION

- A. ALL EXISTING EQUIPMENT, NOT INDICATED TO BE INCORPORATED INTO THE NEW SYSTEM SHALL BE DISCONNECTED BY THIS CONTRACTOR FOR REMOVAL BY OTHERS FROM THE JOB SITE. CARE SHALL BE USED SO THAT NO DAMAGE IS DONE TO EXISTING BUILDINGS, PIPING, DUCTWORK, AND/OR ELECTRICAL EQUIPMENT. ANY DAMAGE ATTRIBUTED TO THIS CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR.

12. CUTTING AND PATCHING

- A. ALL CUTTING THAT MAY BE NECESSARY FOR THE INSTALLATION OF THE WORK OR ANY REQUIRED PATCHING THAT RESULTS THEREFROM SHALL BE DONE BY THE PROPER TRADE INVOLVED AND SHALL BE INCLUDED AS PART OF THIS CONTRACT. PATCH TO DUPLICATE UNDISTURBED ADJACENT FINISHES, COLORS, TEXTURES AND PROFILES. COLUMNS, BEAMS, GIRDERS OR JOISTS SHALL NOT BE CUT.
- B. ALL WORK AFFECTING ROOF OR STRUCTURES SHALL BE PERFORMED BY LANDLORD'S CONTRACTOR AT TENANT'S EXPENSE.

13. CLEANING

- A. COMPLETION AS IT PERTAINS TO THE CONTRACT COMPLETION DATE IS DEFINED AS THE DAY THE PROJECT IS TURNED OVER TO THE OWNER IN THOROUGHLY CLEAN CONDITION. READY FOR THE OWNER TO TAKE POSSESSION. ALL FIXTURES, MOTORS, EQUIPMENT AND ALL OTHER ELECTRICAL EQUIPMENT FURNISHED OR INSTALLED BY THE CONTRACTOR SHALL BE THOROUGHLY CLEANED.

14. TESTS

- A. PROVIDE THE TESTS AS OUTLINED HEREINAFTER AND OTHER TESTS NECESSARY TO ESTABLISH THE ADEQUACY, QUALITY, SAFETY, COMPLETED STATUS AND SUITABLE OPERATION OF EACH SYSTEM. CORRECT PROMPTLY ANY FAILURE OR DEFECTS REVEALED BY THESE TESTS AND RECONDUCT TEST ON THE CORRECTED ITEMS.
- B. TEST THE GROUNDS WITH A GROUND RESISTANCE DIRECT READING SINGLE-TEST MEGGER.
- C. INSULATION RESISTANCE BETWEEN PHASE CONDUCTORS AND GROUND NOT LESS THAN 1,000,000 OHMS.
- D. THE PANELBOARDS SHALL HAVE PHASE CURRENTS BALANCED TO WITHIN +/- 10% VARIATION BETWEEN AVERAGE PHASE CURRENT AND MEASURED INDIVIDUAL PHASE.
- E. AN OPERATIONAL TEST OF THE EMERGENCY LIGHTS AND THE EXIT LIGHTS SHALL BE PERFORMED FOR THE OWNER TO DEMONSTRATE CONFORMANCE TO THE SPECIFICATIONS.

15. TEMPORARY ELECTRICAL SERVICE

- A. TEMPORARY ELECTRICAL SERVICE SHALL BE IN ACCORDANCE WITH THE BUILDING CODE. TEMPORARY LIGHTING SHALL BE PROVIDED BY A LAMP LOCATED FOR EVERY 625 SQUARE FEET OF BUILDING AREA WITH A MINIMUM OF ONE PER ROOM. THE LAMP TO BE 100 WATT AND SHALL BE MAINTAINED BY THE GENERAL CONTRACTOR.
- B. TEMPORARY POWER DISTRIBUTION SHALL BE SUFFICIENT TO ACCOMMODATE THE TEMPORARY LIGHTING AND CONSTRUCTION OPERATIONS, INCLUDING THE USE OF POWER TOOLS (BUT NOT INCLUDING HEAVY-DUTY ELECTRICAL WELDING UNITS), ELECTRICAL HEATING UNITS, AND START-UP OF SPECIFIED BUILDING EQUIPMENT, WHICH IS TO BE TESTED, STARTED OR PLACED INTO OUR USE PRIOR TO COMPLETION OF ITS PERMANENT POWER CONNECTIONS.

16. EXCAVATION AND BACKFILL

- A. CONTRACTOR SHALL DO ALL EXCAVATION REQUIRED AS SHOWN ON PLANS OR REQUIRED FOR PROPER OPERATION. EXCESS EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH EARTH AND THOROUGHLY TAMPED. UTILITY SERVICES, SHALL BE INSPECTED AND APPROVED BY THE PROPER INSPECTION AUTHORITY BEFORE BACKFILLING.

SECTION 16200
ELECTRICAL POWER AND LIGHTING

1. RELATED DOCUMENTS

- A. APPLICABLE PROVISIONS OF AIA DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", DIVISION 1 GENERAL CONDITIONS AND SECTION 16100 ELECTRICAL SPECIAL CONDITIONS GOVERN WORK UNDER THIS SECTION.

2. POWER SERVICE

- A. POWER SERVICE FOR THIS PROJECT SHALL BE PROVIDED FROM THE UTILITY CO. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TO INSURE THAT ALL WORK AND MATERIALS ARE IN CONFORMANCE WITH THE UTILITY CO'S REQUIREMENTS.

3. NAMEPLATES

- A. ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, PANELBOARDS, DISCONNECTS, TRANSFORMERS, CONTROLS, ETC., SHALL BE IDENTIFIED WITH THREE PLY LAMINATED PLASTIC. THE OUTSIDE LAMINATIONS SHALL BE BLACK. ENGRAVING SHALL EXTEND THROUGH THE FRONT LAMINATION SO THAT THE BLACK LETTERS APPEAR ON A WHITE BACKGROUND. NAMEPLATES SHALL BE PERMANENTLY ATTACHED WITH SCREWS.
- B. CIRCUIT DIRECTORY SHALL BE TYPED/WRITTEN (HANDWRITTEN IS NOT ACCEPTABLE) AND SHALL IDENTIFY CIRCUIT AS TO TYPE AND LOCATION AS FOLLOWS:
- "LTG" - FOR LIGHTING CIRCUIT FOLLOWED BY AREA IN WHICH CIRCUIT APPEARS, I.E., "STOCKROOM", "CASH WRAP", ETC.
- "RECEPT" - FOR RECEPTACLE CIRCUIT FOLLOWED BY AREA IN WHICH RECEPTACLE APPEARS, "STOREFRONT", "CASH REGISTER", ETC.
- "MOTOR" - FOR MOTOR FOLLOWED BY THE EQUIPMENT IDENTIFICATION AND AREA IN WHICH MOTOR IS LOCATED, I.E. "EXH FAN TOILET", "AHU-ROOF", ETC.

4. CONDUIT

- A. ALL WIRING SHALL BE INSTALLED IN CONDUIT. THIN WALL EMT CONDUIT SHALL BE USED SIZES 1 1/2" THROUGH 2 1/2". ALL CONDUITS LARGER THAN 2 1/2" SHALL BE HEAVYWALL CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SLABS SHALL BE SCHEDULE 40 PVC. JACKETED FLEXIBLE STEEL CONDUIT (SEALTITE) SHALL BE USED IN WET AREAS AND ON ALL MOTORIZED EQUIPMENT. "MC" CABLE MAY BE USED AT THE CONTRACTORS DISCRETION IF ALLOWED BY LOCAL CODES AND THE AUTHORITY HAVING JURISDICTION. VERIFY PERMISSABLE USE PRIOR TO BID. MC CABLE SHALL NOT BE USED FOR HOMERUNS. NO BX, ROMEX, ETC. SHALL BE ALLOWED.
- B. ALL OPENINGS IN FIRE AND SMOKE WALLS, PARTITIONS, FLOORS AND OTHER SIMILAR PENETRATIONS FOR ELECTRICAL CONDUITS, CABLE OR EQUIPMENT, WHETHER CUT OR IN PLACE, SHALL BE CLOSED WITH A UL APPROVED FIRE RESISTANT SILICONE FOM SEALANT TO MAINTAIN THE FULL RATING AND INTEGRITY OF THE PARTITIONS, WALLS OR FLOOR.
- C. CONDUIT BENDS FOR POWER AND LIGHTING CIRCUITS SHALL NOT BE LESS THAN STANDARD RADIUS BENDS. CONDUIT BENDS FOR FEEDERS, TELEPHONE AND COMMUNICATION CIRCUITS SHALL NOT BE LESS THAN LONG RADIUS BENDS.
- D. O.Z. TYPE DX, TX, OR AX CONDUIT EXPANSION DEFLECTION FITTINGS ARE REQUIRED IN ALL CONDUIT RUNS WHERE MOVEMENT MAY BE ENCOUNTERED. ALL EMT COUPLINGS SHALL BE COMPRESSION TYPE.
- E. EXPOSED CONDUIT SHALL BE SECURELY SUPPORTED IN PLACE PER CODE BUT ON A MAXIMUM OF 10 FOOT INTERVALS, WITHIN THREE FEET OF EACH BEND, AT EVERY OUTLET OR JUNCTION BOX AND AT THE END OF EACH STRAIGHT RUN TERMINATING AT A BOX OR CABINET. CONDUIT SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPE WORK. CONDUITS SHALL BE INSTALLED PARALLEL TO AND AT RIGHT ANGLES TO THE BUILDING LINES. GENERALLY, CONDUIT SHALL BE INSTALLED IN CONTACT WITH STRUCTURAL PARTS OF THE BUILDING SO AS TO AVOID SUSPENDED LENGTHS OF CONDUIT. CONDUIT SHALL BE INSTALLED AS TO BE ACCESSIBLE FOR REPLACEMENT AND MAINTENANCE AND GENERALLY CONDUIT SHALL BE INSTALLED TO PERMIT DRAINAGE.

5. WIRE AND CABLE

- A. ALL WIRE AND CABLE SHALL BE COPPER AND INSTALLED IN CONDUIT. ALL WIRE AND CABLE FEEDERS AND BRANCH CIRCUITS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE APPLICABLE EDITION OF THE N.E.C. AND SHALL MEET ALL ASTM SPECIFICATIONS. WIRE AND CABLE SHALL BE NEW, SHALL HAVE SIZE, GRADE OF INSULATION VOLTAGE AND MANUFACTURER'S NAME PERMANENTLY MARKED ON OUTER COVERING AT REGULAR INTERVAL AND SHALL BE DELIVERED IN COMPLETE COILS OR REELS WITH IDENTIFYING SIZE AND INSULATION TAGS.
- B. THE ELECTRICAL CONTRACTOR SHALL CALCULATE VOLTAGE DROP ON CONDUCTORS WITH LENGTHS GREATER THAN 75 FEET FROM THE PANELBOARD AND PROPERLY SIZE THE CONDUCTORS PER N.E.C.
- C. POWER CONDUCTORS: NO WIRE LESS THAN NO. 12 SHALL BE USED EXCEPT FOR CONTROL CIRCUITS OR LOW VOLTAGE WIRING. WIRE SIZES NO. 12 TO NO. 10 SHALL BE SOLID EXCEPT WHERE OTHERWISE INDICATED. WIRE SIZES NO. 8 AND LARGER SHALL BE STRANDED. ALL WIRE SIZES SHOWN ARE AMERICAN WIRE GAUGE SIZES. SIZES NO. 12 AWG THROUGH NO. 8 AWG SHALL BE "THHN/THWN." SIZE 4 AWG AND LARGER SHALL BE "THHN/THWN."
- D. CONTINUITY: ALL WIRES SHALL BE CONTINUOUS FROM OUTLET TO OUTLET.
- E. ACCEPTABLE MANUFACTURERS: CABLE AND WIRE SHALL BE STANDARD TYPE AS MANUFACTURED BY GENERAL CABLE COMPANY, CAROL, ANACONDA, SOUTHWIRE OR ITT ROYAL.

6. COLOR CODING

- A. A COLOR CODING SYSTEM AS LISTED BELOW SHALL BE FOLLOWED THROUGHOUT FOR FEEDERS AND BRANCH CIRCUITS AND USED AS A BASIS FOR BALANCING LOAD.
- 120/208V: PHASE A---BLACK, PHASE B---RED, PHASE C---BLUE, NEUTRAL---WHITE, GROUND---GREEN

7. BOXES AND FITTINGS

- A. ALL OUTLETS SHALL BE PROVIDED WITH GALVANIZED OR SHERARDIZED BOXES SUITABLE IN DESIGN TO THE SPACE THEY OCCUPY AND THE PURPOSE THEY SERVE. WALL MOUNTED OUTLET BOXES, EXCEPT FOR 2" PARTITIONS SHALL BE 4" SQUARE AND AT LEAST 1 1/2" DEEP AND/OR DEEPER IF REQUIRED BY THE DEVICE THEY HOLD OR THE NATIONAL ELECTRICAL CODE.
- B. ALL PULLBOXES SHALL BE MADE OF GALVANIZED STEEL, OF METAL GAUGE AND PHYSICAL SIZE AS REQUIRED BY THE N.E.C. FOR THE NUMBER AND SIZE OF RACEWAYS AND CONDUCTORS INVOLVED.
- C. FIXTURE OUTLET BOXES IN OR ON CEILINGS SHALL NOT BE LESS THAN 1-1/2" DEEP OR LESS THAN 4" SQUARE. ALL OUTLET BOXES INTENDED TO SUPPORT FIXTURES SHALL BE EQUIPPED WITH 3/8" FIXTURE STUDS FASTENED THROUGH THE BOTTOM OF THE BOX WITH FOUR BOLTS.
- B. CIRCUIT BREAKER PANELBOARDS
- A. PANELS SHALL BE LIGHTING AND APPLIANCE TYPE, DEAD FRONT, SAFETY TYPE, FURNISHED WITH BRANCH CIRCUIT PROTECTING DEVICES, EQUIPMENT GROUNDING BUS, MAIN BUS AND CABLE LUGS FACTORY ASSEMBLED, WITH ALL COMPONENTS IN PLACE, READY FOR INSTALLATION.
- B. CURRENT CARRYING CONTACT SURFACES SHALL BE SILVER OR TIN PLATED. THE CIRCUIT BREAKERS SHALL BE OF THE MOLDED CASE, BOLT-IN TYPE SUITABLE FOR VOLTAGE AND AMPERE RATINGS INDICATED ON DRAWINGS AND IN SCHEDULES AND SHALL HAVE A MINIMUM INTERRUPTING CAPACITY AS INDICATED BY THE DRAWINGS.
- C. MAIN BUSES AND CONNECTORS SHALL BE HARD DRAWN COPPER OF 98% CONDUCTIVITY, WITH CURRENT CARRYING CAPACITY TO MAINTAIN ESTABLISHED RISE TESTS AS DEFINED IN UL STANDARD UL 67.
- D. CABINET SIZES ARE BASED UPON A 20" WIDE BY 6" DEEP PANEL UNLESS OTHERWISE NOTED. PANELBOARDS SHALL BE EQUIPPED WITH FLUSH TYPE LOCK AND CATCH. ALL LOCKS SHALL BE KEYPED ALIKE, AND TWO KEYS ARE TO BE SUPPLIED WITH EACH LOCK.
- E. PANELBOARDS TO BE BY SCHNEIDER, ABB, SIEMENS OR EATON.

10. TOGGLE SWITCHES

- A. TOGGLE SWITCHES SHALL BE WHITE AND SHALL BE RATED 20 AMPERES 120/277 VOLT AC TYPE AS MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS:
- SINGLE POLE ---1221-W
THREE WAY ---1223-W
- B. TOGGLE SWITCHES SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR TO MOUNTING PLATE AND, AT DOORS, INSTALLED ADJACENT TO THE TRIM ON THE STRIKING SIDE OF THE DOOR, REGARDLESS OF THE LOCATION INDICATED ON THE DRAWINGS; THEREFORE, CHECK ALL DOOR SWINGS BEFORE INSTALLATION OF CONDUIT OUTLETS.
- C. COMPARABLE EQUIPMENT AS MANUFACTURED BY LEVITON AND LEGRAND WILL BE ACCEPTABLE.

11. RECEPTACLES

- A. RECEPTACLES IN KITCHEN/PREP AREAS SHALL BE WHITE AS MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS:
- DUPLEX RECEPTACLE -20A-125 VOLT 5362-W
- RECEPTACLES IN DINING AREAS SHALL BE WHITE AS MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS:
- DUPLEX RECEPTACLE -20A-125 VOLT 5362-B
- B. RECEPTACLES SHALL BE MOUNTED 18" ABOVE THE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- C. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, LEGRAND AND LEVITON WILL BE ACCEPTABLE.

12. DEVICE PLATES

- A. DEVICE PLATES SHALL BE WHITE IN THE KITCHEN/PREP AREA AND BLACK IN THE DINING AREA UNLESS OTHERWISE NOTED. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SIERRA ELECTRIC CORPORATION, HARVEY HUBBLE INC., LEGRAND AND LEVITON WILL BE ACCEPTABLE. PAINT MATCH ADJACENT FINISH COLOR.

13. DISCONNECT SWITCHES

- A. FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY CODE. DISCONNECT SWITCHES SHALL BE NEMA HEAVY DUTY TYPE AND UNDERWRITERS LABORATORIES LISTED, MANUFACTURED BY SCHNEIDER, ABB, EATON OR SIEMENS.

14. GROUNDING

- A. CONTRACTOR SHALL INSTALL GROUNDING PER APPLICABLE EDITION OF THE NEC. ARTICLE 250 EQUIPMENT GROUNDING SHALL USE ONLY APPROVED GROUNDING CLAMPS AND CONNECTORS AS MANUFACTURED BY PENN-UNION, BURNIDY, OR O-Z MFG. COMPANY.
- B. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250 AND THE UTILITY COMPANY REGULATIONS. CONTRACTOR SHALL CONNECT THE GROUNDING ELECTRODE CONDUCTORS TO THE NEUTRAL BAR INSIDE THE MAIN PANEL.
- C. THE EQUIPMENT GROUNDING SYSTEM SHALL CONSIST OF A CONTINUOUS CONDUIT INSTALLATION AND A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR. THIS GROUNDING CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT OR RACEWAY WITH THE FEEDER OR BRANCH CIRCUIT CONDUCTORS. THIS GROUNDING SHALL BE EXTENDED FROM THE HOUSING OF EVERY ELECTRICAL LOAD, THROUGH PANELBOARD STATIC GROUNDING BUSES, TO THE STATIC GROUNDING BUS IN THE MAIN PANEL. THE GROUNDING BUS SHALL BE BONDED TO THE GROUNDING NEUTRAL BAR INSIDE THE MAIN PANEL.

15. LIGHTING FIXTURES

- A. ALL LIGHTING FIXTURES AND LAMPS SHALL BE FURNISHED BY ELECT. CONTR., UNLESS NOTED OTHERWISE. THIS CONTRACTOR SHALL INSTALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED BELOW, COMPLETE WITH HANGERS, PLASTER FRAMES AND ALL OTHER NECESSARY ACCESSORIES.
- B. THIS CONTRACTOR SHALL VERIFY THE FINAL CEILING AND FINISH SCHEDULES TO INSURE THE PROPER INSTALLATION AND MOUNTING OF FIXTURES AND SHALL COORDINATE BEFORE MAKING SUBMITTALS.

16. LIGHTING CONTROLS

- A. PANEL #LPBS WITH 8 RELAYS AND BUILT-IN TIME CLOCK AND AS MANUFACTURED BY WATT STOPPER.
- B. TIME SWITCHES SHALL BE 24 HOUR, 7 DAY, DAY SKIPPER 365 DAYS AND HOLIDAYS TYPE AS MANUFACTURED BY TORK, INTERMATIC, OR PARAGON.

17. TELEPHONE SERVICE

- A. THIS CONTRACTOR SHALL INSTALL A TELEPHONE SERVICE CONDUIT AS SHOWN ON THE DRAWINGS AND FURNISH AND INSTALL (1) 3' x 4' x 3/4" PLYWOOD PANEL MOUNTED ON THE WALL AT LOCATION SHOWN ON PLANS.

18. SURFACE METAL RACEWAY

- A. SURFACE METAL RACEWAY SHALL BE TWO PIECE #2100 AS MANUFACTURED BY WIREMOLD. ALL NECESSARY ACCESSORIES REQUIRED TO FIT THE CONFIGURATION SHOWN SHALL BE PROVIDED. RECEPTACLES SHALL BE 120 VAC, 23 APMS, CATALOG NUMBER #2127GT.

SECTION 16700
FIRE ALARM SPECIAL CONDITIONS

1. GENERAL

- A. GC TO COORDINATE ALL LOCAL FIRE ALARM REQUIREMENTS WITH LOCAL FIRE MARSHALL AND PROVIDE ALL SYSTEM DESIGN AND DEVICES REQUIRED FOR A COMPLETE FUNCTIONAL AND CODE COMPLIANT SYSTEM.

END OF DIVISION 16

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	HOME RUN TO PANEL. CIRCUIT NUMBERS, PHASE, NEUTRAL AND GROUND CONDUCTORS INDICATED ALONG WITH ISOLATED GROUND CONDUCTOR IF APPLICABLE
	PARTIAL CIRCUIT
	SINGLE POLE SWITCH, +3'-10" OR AS NOTED
	DOUBLE POLE, SINGLE THROW SWITCH, +3'-10" OR AS NOTED
	THREE-WAY SWITCH, +3'-10" OR AS NOTED
	0-10V DIMMER, +3'-10" OR AS NOTED
	WALL MOUNTED OCCUPANCY SENSOR, +3'-10" OR AS NOTED
	WALL MOUNTED OCCUPANCY SENSOR, +3'-10" OR AS NOTED, CONTROLLED BY ROOM CONTROLLER
	CEILING MOUNTED OCCUPANCY SENSOR
	CEILING MOUNTED OCCUPANCY SENSOR, CONTROLLED BY ROOM CONTROLLER
	CEILING MOUNTED INTERIOR DAYLIGHT HARVESTING PHOTOCELL SENSOR CONTROLLED BY ROOM CONTROLLER
	POWER PACK, INSTALLED ABOVE ACCESSIBLE CEILING
	DUPLEX RECEPTACLE, +18" OR AS NOTED
	GFI DUPLEX RECEPTACLE +18" OR AS NOTED
	QUADPLEX RECEPTACLE, +18" OR AS NOTED
	GFI QUADPLEX RECEPTACLE, +18" OR AS NOTED
	GROUND FAULT INTERRUPTING RECEPTACLE, +18" OR AS NOTED
	WEATHERPROOF GROUND FAULT INTERRUPTING RECEPTACLE, +18" OR AS NOTED
	SPECIAL RECEPTACLE, NEMA STYLE AS NOTED, +18" OR AS NOTED
	USB CHARGING DUPLEX RECEPTACLE, +18" OR AS NOTED
	RECEPTACLE INSTALLED FLUSH IN CEILING
	SWITCHED RECEPTACLE FOR INTERIOR SIGNAGE, +100" OR AS NOTED, LABEL RECEPTACLE ACCORDINGLY
	SWITCHED RECEPTACLE FOR PARTY LIGHTS, +100" OR AS NOTED, LABEL RECEPTACLE ACCORDINGLY
	JUNCTION BOX
	DISCONNECT SWITCH, TOP AT +6'-0" OR AS NOTED
	DISCONNECT SWITCH PROVIDE WITH EQUIPMENT
	LIGHTING CONTACTOR, INSTALLED AS NOTED
	TIME CLOCK, +6'-2" OR AS NOTED
	EXTERIOR PHOTOCELL, INSTALLED ON ROOF FACING NORTH
	ROOM CONTROLLER
	PLUG LOAD CONTROLLER
	ELECTRICALLY OPERATED DAMPER, PROVIDED BY MECHANICAL CONTRACTOR, WIRE BY ELECTRICAL CONTRACTOR
	THERMOSTAT, TEMPERATURE SENSOR, CARBON DIOXIDE SENSOR AND HUMIDISTAT PROVIDED BY MECHANICAL CONTRACTOR, +3'-10" OR AS NOTED
	PUSHBUTTON, TOP AT +4'-6" OR AS NOTED
	DOOR BELL CHIME, +8'-0" OR AS NOTED
	TELEPHONE/DATA OUTLET, +18" WITH 1" CONDUIT TO ABOVE CEILING
	DATA OUTLET, +18" WITH 3/4" CONDUIT TO ABOVE CEILING
	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE
	TYPICAL
	FIRE ALARM CONTROL PANEL, FLUSH MOUNTED, TOP AT +6'-0"
	MANUAL FIRE ALARM PULL STATION, +3'-10" PER ADA
	FIRE ALARM HORN/STROBE, +80" TO BOTTOM OF DEVICE PER ADA
	EXTERIOR WEATHERPROOF FIRE ALARM HORN, +10'-0" AFG
	STROBE ONLY, +80" TO BOTTOM OF DEVICE PER ADA
	FIRE ALARM HORN/STROBE, CEILING MOUNTED
	STROBE ONLY, CEILING MOUNTED
	AREA TYPE PHOTOELECTRIC SMOKE DETECTOR WITH SAMPLING TUBES AND REMOTE INDICATOR LIGHT MOUNTED FLUSH IN CEILING BELOW DETECTOR

Oculus Inc.
CONNECT • SHAPE • MOVE



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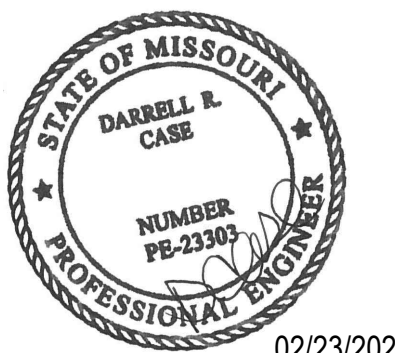


JERSEY MIKES - ST. JOSEPH

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Description Date

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Client Approval

Electrical Specs

Project # 43423-M011

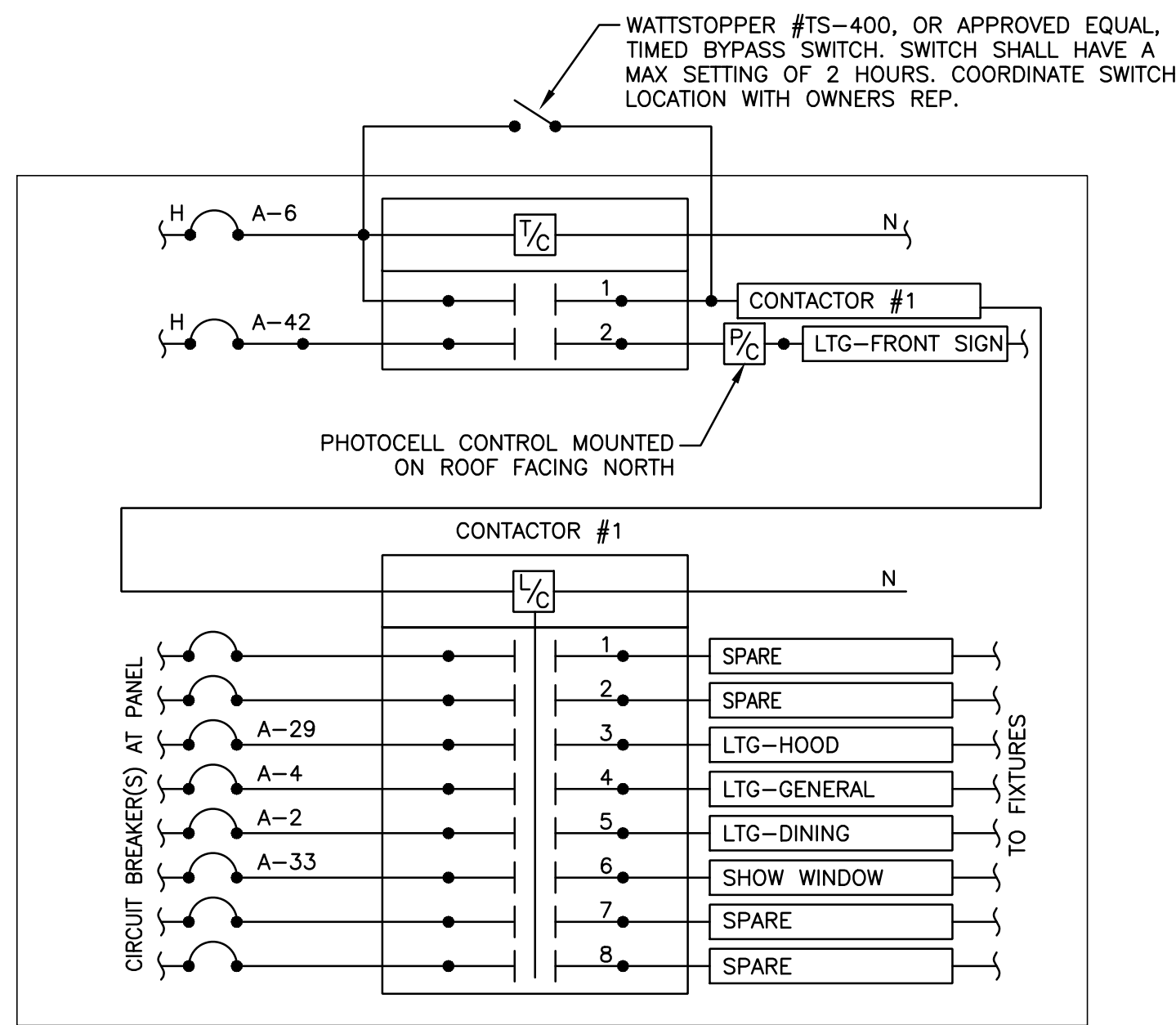
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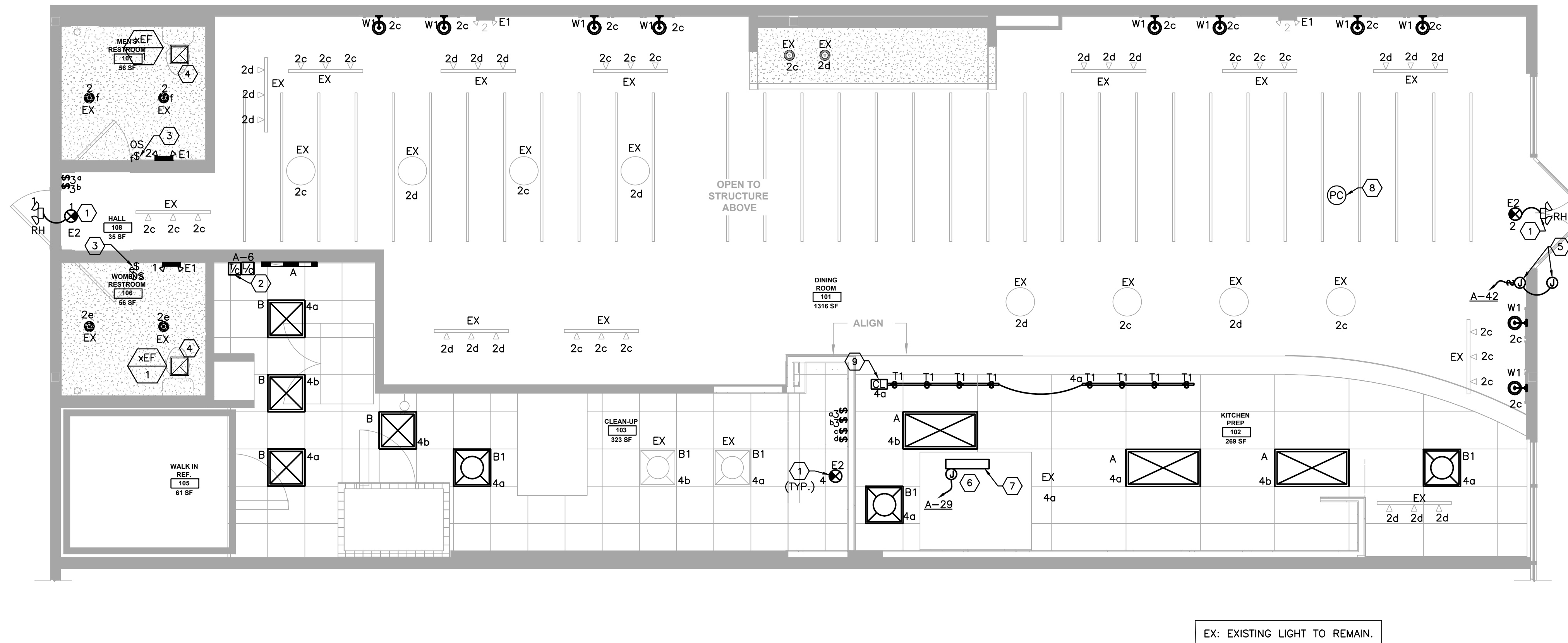
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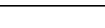





2 TIMECLOCK CONTROL DIAGRAM



1 ELECTRICAL LIGHTING PLAN



LIGHT FIXTURE SCHEDULE							LAMP SCHEDULE			
SYMBOL	TYPE	CATALOG NUMBER	DESCRIPTION	VOLTS	MOUNTING	LAMP/FIXT	WATTS/LAMP	FIXTURE WATTS	LAMP TYPE	
	A	FSG-2X4FLPNL	2'X4' LED FIXTURE W/PRISMATIC LENS IN BOH/KITCHEN	UNIV	LAY-IN	1	49	49	LED	
	B	FSG-2X2FLPNL	2'X4' LED FIXTURE W/PARABOLIC LENS IN CUSTOMER AREA	UNIV	LAY-IN	1	39	39	LED	
	B1	FSG-2X2FLPLI	2'X2' LED FIXTURE W/PARABOLIC LENS IN CUSTOMER AREA	UNIV	LAY-IN	1	31	31	LED	
	T1	FSG-THL9MW	LED TRACK ABOVE COUNTER	120	TRACK	1	9	9	LED	
	W1	**86703506	WALL SCONCE POLISHED NICKEL G40 LED FILAMENT BULB	120	WALL	1	6	6	LED	
	E1	FSG-BEWH	BUG EYE EMERGENCY FIXTURE WHITE	UNIV	WALL	2	1	2	LED	
	E2	FSG-EXWRBB	EXIT RED LETTERS, WHITE HOUSING LED EXIT, WITH BATTERY BACKUP	UNIV	WALL	1	2	2	LED	
	RH	TBD	DUAL-HEAD REMOTE EMERGENCY FIXTURE, WHITE HOUSING, 6V, LAMPS INCLUDED	UNIV	SURFACE	2	5	10	LED	

LUMINAIRE SCHEDULE NOTES:

1. ALL LIGHTING FIXTURES AND LAMPS IN THE ABOVE SCHEDULE (UNLESS NOTED WITH **) ARE PROVIDED BY THE CONTRACTOR VIA A NATIONAL CONTRACT WITH FSG LIGHTING NATIONAL ACCOUNTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE LIGHTING FIXTURES. ANY QUESTIONS REGARDING FIXTURE AND LAMP TYPES, INSTALLATION REQUIREMENTS, AND ORDERS SHALL BE WITH LEON MOWADIA OF FSG AT (212) 776-7900 X21113, OR (848) 203-7175, OR BY EMAIL LEON.MOWADIA@FSGI.COM.
2. **LIGHTING FIXTURES AND LAMPS IN THE ABOVE SCHEDULE INDICATED WITH (**) ARE PROVIDED BY THE CONTRACTOR VIA A NATIONAL ACCOUNT WITH HERMITAGE LIGHTING NATIONAL ACCOUNTS. THE CONTRACTOR IS RESPONSIBLE FOR PURCHASING AND INSTALLING THE LIGHTING FIXTURES. ANY QUESTIONS REGARDING FIXTURE AND LAMP TYPES, INSTALLATION REQUIREMENTS, AND ORDERS SHALL BE WITH WYATT CULVER OF HERMITAGE LIGHTING AT (800) 264-3383, OR (615) 843-3379 OR LEE DANIELS AT (615) 843-3364.

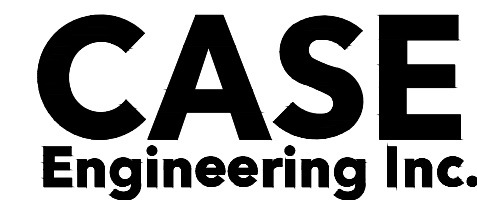
- # GENERAL NOTES
1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY CEILING TYPE AND PROVIDE NECESSARY MOUNTING HARDWARE TO ACCOMMODATE LIGHT FIXTURES USED. PROVIDE SLOPE CEILING ADAPTERS WHERE REQUIRED.
 2. ALL CONDUITS ARE TO BE CONCEALED IN WALLS OR ABOVE CEILINGS. CONDUITS IN EXPOSED CEILING AREAS SHALL EXIT WALLS AS CLOSE TO ROOF/FLOOR STRUCTURAL DECK AS POSSIBLE.
 3. ANY EXISTING MATERIALS OR EQUIPMENT NOT TO BE REUSED MUST BE COMPLETELY REMOVED AND DISPOSED OF LEGALLY. NO EQUIPMENT OR COMPONENTS MAY BE ABANDONED IN PLACE WITHOUT WRITTEN PERMISSION OF THE LANDLORD.
 4. THE DIRECTIVE, IF ANY, OF THE BUILDING OFFICIAL SHALL TAKE PRECEDENCE OVER THIS DRAWING REGARDING LOCATION AND NUMBER OF EXIT AND EMERGENCY EGRESS LIGHTS.
 5. ALL FIXTURES TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
 6. ALL PENDANT MOUNTED FIXTURES SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE WITH No.9 GAGE WIRE OR APPROVED ALTERNATE SUPPORT WITHOUT USING CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
 7. ALL LIGHTING FIXTURES MUST BE SUPPORTED BY #12 GAUGE WIRE ATTACHED TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE.
 8. ALL RACEWAYS IN MILLWORK SHALL BE INSTALLED CONCEALED FROM VIEW.
 9. ELECTRICAL CONTRACTOR TO VERIFY LIGHTING FOR WALK-IN COOLER & FREEZER. PROVIDE FIXTURE IF COOLER DOES NOT HAVE BUILT-IN LIGHT, OR COOLER LIGHTING IS NOT EXISTING. COORDINATE LOCATION WITH SUPPLIED. CONTACT ENGINEER WITH ANY QUESTIONS REGARDING COOLER LIGHTING. LIGHTING FIXTURES FURNISHED LOOSE BY THE WALK-IN MANUFACTURER SHALL BE INSTALLED AND CONNECTED BY THE E.C.
 10. EXIT AND EMERGENCY FIXTURES TO BE CONNECTED TO UNSWITCHED LEG OF THE LOCAL LIGHTING CIRCUIT AND PROVIDE CONTINUOUS ILLUMINATION PER N.E.C. 700-12(A) AND N.F.P.A. 101, LIFE SAFETY CODE.
 11. ALL TRACK AND PENDANT LIGHTING FIXTURES POWER IS TO BE FED FROM THE CEILING. DO NOT FEED POWER FOR TRACK OR PENDANT LIGHT FIXTURES FROM THE WALLS.
 12. ALL LIGHTING FIXTURES IN FOOD AND BEVERAGE PREP AREA SHALL HAVE PROTECTIVE SHIELDS.
 13. ALL WORK TO COMPLY WITH THE APPLICABLE EDITION OF THE N.E.C. HAVING BEEN ADOPTED AND ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
 14. ALL EQUIPMENT TO BE LISTED BY A NATIONALLY RECOGNIZED TESTING LAB (I.E. U.L., ETC.).
 15. LIGHT FIXTURES IN CONTACT WITH INSULATION TO BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDE 3" MINIMUM CLEARANCE.
 16. MOUNT THE FOLLOWING ABOVE FINISHED FLOOR.
OUTLETS - 15" (BOTTOM OF BOX MINIMUM) TO 48" (TOP OF BOX MAXIMUM)
SWITCHES - 36" (BOTTOM OF BOX MINIMUM) TO 48" (TOP OF BOX MAXIMUM)
THERMOSTAT - 36" (BOTTOM OF BOX MINIMUM) TO 48" (TOP OF BOX MAXIMUM)
 17. ALL SERIES RATED PANELS SHALL BE PROPERLY IDENTIFIED PER SECTION 110-22, N.E.C.
 18. SEAL CONDUITS THROUGH WALK-IN COOLER/FREEZER PER N.E.C. 300.7(A).

LIGHTING PLAN KEYED NOTES 

1. EMERGENCY EGRESS/EXIT FIXTURES SHALL BE CONNECTED TO A NON-SWITCHED LEG OF CIRCUIT INDICATED.
2. TIMECLOCK AND LIGHTING CONTACTOR MOUNTED IN STOCKROOM. SEE "TIMECLOCK CONTROL DIAGRAM", THIS SHEET. COORDINATE WITH OWNER FOR CONTROL SCHEDULE(S) AND OTHER REQUIREMENTS.
3. CONTRACTOR TO PROVIDE A WALL MOUNTED "PIR" OCCUPANCY SENSOR (WATTSTOPPER #PW-100, OR ENGINEER APPROVED EQUAL) FOR LOCAL LIGHTING CONTROL.
4. RESTROOM EXHAUST FANS ARE TO BE CONTROLLED BY OCCUPANCY SENSOR. EC TO PROVIDE 20A/1PH DISCONNECT.
5. NEMA-3R JUNCTION BOX FOR CONNECTION TO SIGNAGE. VERIFY EXACT LOCATION WITH SIGNAGE SUPPLIER, SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE A WEATHER-RESISTANT TYPE SWITCH RATED FOR SIGN LOAD.
6. EXHAUST HOOD LIGHTS SUPPLIED WITH HOOD AND MOUNTED IN PRE-WIRED J-BOX. COMPLETE CIRCUITING. SEE MECHANICAL HOOD SHOP DRAWINGS FOR MORE INFORMATION.
7. HOOD SYSTEM CONTROLLER. VERIFY EXACT LOCATION WITH EQUIPMENT SUPPLIER. SEE MECHANICAL HOOD SHOP DRAWINGS FOR ADDITIONAL CIRCUITING REQUIREMENTS.
8. WEATHER-PROOF PHOTOCELL MOUNTED ON ROOF FACING NORTH FOR CONTROL OF EXTERIOR SIGNAGE. COORDINATE EXACT LOCATION IN FIELD. SEE "TIMECLOCK CONTROL DIAGRAM", THIS SHEET, FOR MORE INFORMATION.
9. PROVIDE A 1-AMP CURRENT LIMITER END FEED CONNECTION COMPATIBLE WITH TRACK.



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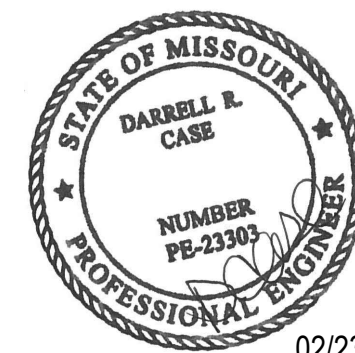
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02/23/2023

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Client Approval

Electrical Lighting Plan

Project # 43423-MO11

Issue Date 02/23/2023

Scale As indicated

Drawn by JRS

Checked by M.

E2.0

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- GENERAL NOTES
1. THE SCOPE OF THE ELECTRICAL WORK SHALL INCLUDE FURNISHING, INSTALLING, CONNECTING AND TESTING ALL ELECTRICAL SYSTEMS FOR A COMPLETE AND FULLY OPERABLE INSTALLATION COMPLYING WITH THE LATEST VERSIONS OF ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. LOCATIONS OF EXISTING ELECTRICAL SYSTEM, EQUIPMENT AND DEVICES SHALL BE VERIFIED IN THE FIELD BY THE TENANT'S GENERAL CONTRACTOR(T.G.C.).
3. VERIFY ELECTRICAL REQUIREMENTS FOR ALL SPECIAL EQUIPMENT PRIOR TO ANY WORK BEING PERFORMED. PROVIDE ISOLATED GROUND WIRE PER EQUIPMENT MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE CONDUIT FOR MECHANICAL CONTROLS AS REQUIRED BY CODE. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF A/C UNITS AND EXHAUST FANS WITH MECHANICAL CONTRACTOR.
4. E.C. SHALL DETERMINE, ARRANGE AND PAY FOR PROPER SERVICE AND METERS.
5. E.C. SHALL PROVIDE, AT EACH TELEPHONE JACK INDICATED, AN OUTLET BOX, CONDUIT AND FACEPLATE AND JACK OUTLET. THE CONDUIT SHALL EXTEND ABOVE SUSPENDED CEILING. PROVIDE PLENUM RATED TELEPHONE WIRE AS REQUIRED TO EACH BOX.
6. E.C. SHALL PROVIDE CORD & PLUGS AS REQUIRED FOR KITCHEN EQUIPMENT. COORDINATE WITH EQUIPMENT MANUFACTURER AND K.E.C.
7. WHEN MAIN ELECTRICAL SERVICE IS PROVIDED BY THE LANDLORD, HIS OBLIGATIONS TERMINATE AT THE DISCONNECT. ALL PANELS, FEEDERS, ETC. REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE E.C.
8. STARTER & RELATED WIRING SHALL BE FURNISHED, INSTALLED AND CONNECTED BY E.C. OVERLOAD LIMITS SHALL BE INSTALLED PER GIVEN NAMEPLATE DATA ON EQUIPMENT. STARTERS SHALL BE INSTALLED AS PER REQUIREMENTS.
9. E.C. TO PROVIDE ELECTRICAL OUTLET FIRE PROTECTION PAD FOR ALL RECEPTACLES IN RATED WALL AS MANUFACTURED BY PFP PARTNERS. APPLY TO BOXES AS INSTRUCTED BY MFR. TO PROVIDE RATING TO MEET RATING OF CORRESPONDING WALL.
10. WHERE PORTIONS OF A CABLE RACEWAY OR SLEEVE ARE KNOWN TO BE SUBJECTED TO DIFFERENT TEMPERATURES AND WHERE CONDENSATION IS KNOWN TO AN ISSUE, AS IN COLD STORAGE AREAS OF BUILDINGS OR WHERE PASSING FROM THE INTERIOR TO THE EXTERIOR OF A BUILDING, THE RACEWAY OR SLEEVE SHALL BE FILLED WITH AN APPROVED MATERIAL TO PREVENT THE CIRCULATION OF WARM AIR TO COLDER SECTION OF THE RACEWAY OR SLEEVE PER N.E.C. 300A (A)
11. COORDINATE LOCATIONS AND ROUTING OF FEEDERS TO PANELBOARDS WITH LANDLORD AND PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED BY LANDLORD AND OWNER.
12. WHERE THE WORD "PROVIDE" IS USED, THE WORD IS UNDERSTOOD TO MEAN "THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND MAKE FINAL CONNECTION TO THE EQUIPMENT", UNLESS OTHERWISE NOTED.
13. VERIFY EXACT LOCATION, MOUNTING HEIGHT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS (INCLUDING HVAC EQUIPMENT) PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED FUSIBLE SWITCHES, TRANSFORMERS, STARTERS NECESSARY FOR PROPER OPERATION OF EQUIPMENT.
14. REFER TO LANDLORD'S DESIGN SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
15. NEW & RELOCATED LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR PER A.D.A. REQUIREMENTS. RESOLVE ANY CONFLICT IN MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH IN.
16. REFER TO ALL DISCIPLINES, INCLUDING ARCHITECTURAL & KITCHEN, PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
17. ALL RECEPTACLES IN PUBLIC SPACES SHALL BE LISTED TAMPER-RESISTANT, AS SHOWN ON DRAWINGS.
18. ALL CONDUITS ARE TO BE CONCEALED IN WALLS OR ABOVE CEILINGS. CONDUITS IN EXPOSED CEILING AREAS SHALL EXIT WALLS AS CLOSE TO ROOF/FLOOR STRUCTURAL DECK AS POSSIBLE.
19. ALL LOW VOLTAGE WIRING IN CEILING PLENUM (INCLUDING TELEPHONE, DATA, ALARM AND TEMP. CONTROL WIRING) SHALL BE UL LISTED TEFLON PLENUM CABLE.
20. UNLESS OTHERWISE NOTED, ALL ELECTRICAL WORK FOR FABRICATED FOOD SERVICE EQUIPMENT SHALL BE COMPLETELY WIRED BY KITCHEN EQUIPMENT DIVISION TO A JUNCTION BOX OR PULL BOX MOUNTED ON THE EQUIPMENT IN AN ACCESSIBLE LOCATION. FINAL CONNECTIONS TO EQUIPMENT JUNCTION BOX OR PULL BOX AND ALL ELECTRICAL WORK FROM PANEL BOARDS TO BE BY THE ELECTRICAL DIVISION.
21. FINAL CONNECTIONS TO ALL EQUIPMENT TO BE BY ELECTRICAL CONTRACTOR, INCLUDING MATERIALS.
22. ELECTRICAL CONTRACTOR TO PROVIDE THE FOLLOWING:
23. ALL JUNCTION BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES, ETC., NOT BUILT INTO FIXTURES OR EQUIPMENT. ALL OUTLETS, JUNCTION BOXES, COVER PLATES, ETC., IN DISHROOMS OR AS INDICATED ON SCHEDULES MUST BE VAPOR PROOF.
24. ALL PLUGS AND CORDS AS NOTED ON SCHEDULE. ALL CORDS SHALL BE N.E.M.A.-RATED AND U.L.-APPROVED FOR MANUFACTURED AND/OR FABRICATED EQUIPMENT.
25. SHUNT-TRIP CIRCUIT BREAKERS/CONTACTORS OR DISCONNECTS FOR FIRE CONTROL SYSTEM SHUT-OFF OF FOODSERVICE EQUIPMENT BELOW HOODS/VENTILATORS AS REQUIRED BY ADOPTED N.F.P.A. AND LOCAL CODES.
26. DISCONNECTS OR OTHER DEVICES AS REQUIRED BY CODES.
27. WHEN APPLICABLE, ELECTRICAL DIVISION TO PROVIDE CONDUIT AND WIRING, INSTALL ELECTRICAL COMPONENTS (PROVIDED BY K.E.C.) AND INTERWIRE BETWEEN THE FOLLOWING.
28. REMOTE REFRIGERATION EQUIPMENT TO EVAPORATOR COILS.
29. CONTROL PANELS TO WATER-TYPE, VENTILATORS AND EXHAUST SUPPLY FANS PER MANUFACTURER'S INSTRUCTIONS.
30. KITCHEN EXHAUST HOOD/VENTILATORS TO FIRE CONTROL SYSTEM AND SHUT-OFFS.
31. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL TRADES AND VERIFY THAT ALL EQUIPMENT SHIPPED TO THE SITE IS COMPATIBLE WITH MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS PRIOR TO INSTALLATION OF SAID EQUIPMENT. IN THE EVENT OF ANY DISCREPANCIES, IMMEDIATELY CONTACT DESIGNER BEFORE PROCEEDING.
32. ALL DEDICATED CIRCUIT OUTLETS SHALL BE ORANGE.
33. SUSPENDED ELECTRICAL CONDUITS AND OUTLET BOXES ARE TO BE SUPPORTED FROM THE STRUCTURE USING METAL BRACES.
34. THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED THROUGH-PENETRATION FIRE-STOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM 814 OR UL1479 WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER (2.49Pq). THE SYSTEM SHALL HAVE AN "F" RATING AND A "T" RATING OF NOT LESS THAN 1-HOUR, BUT NOT LESS THAN THE REQUIRED RATING AT THE WALL PENETRATED.
35. DISCONNECT SWITCHES PROVIDED TO SERVE KITCHEN EQUIPMENT SHALL BE NEMA 4X STAINLESS STEEL.

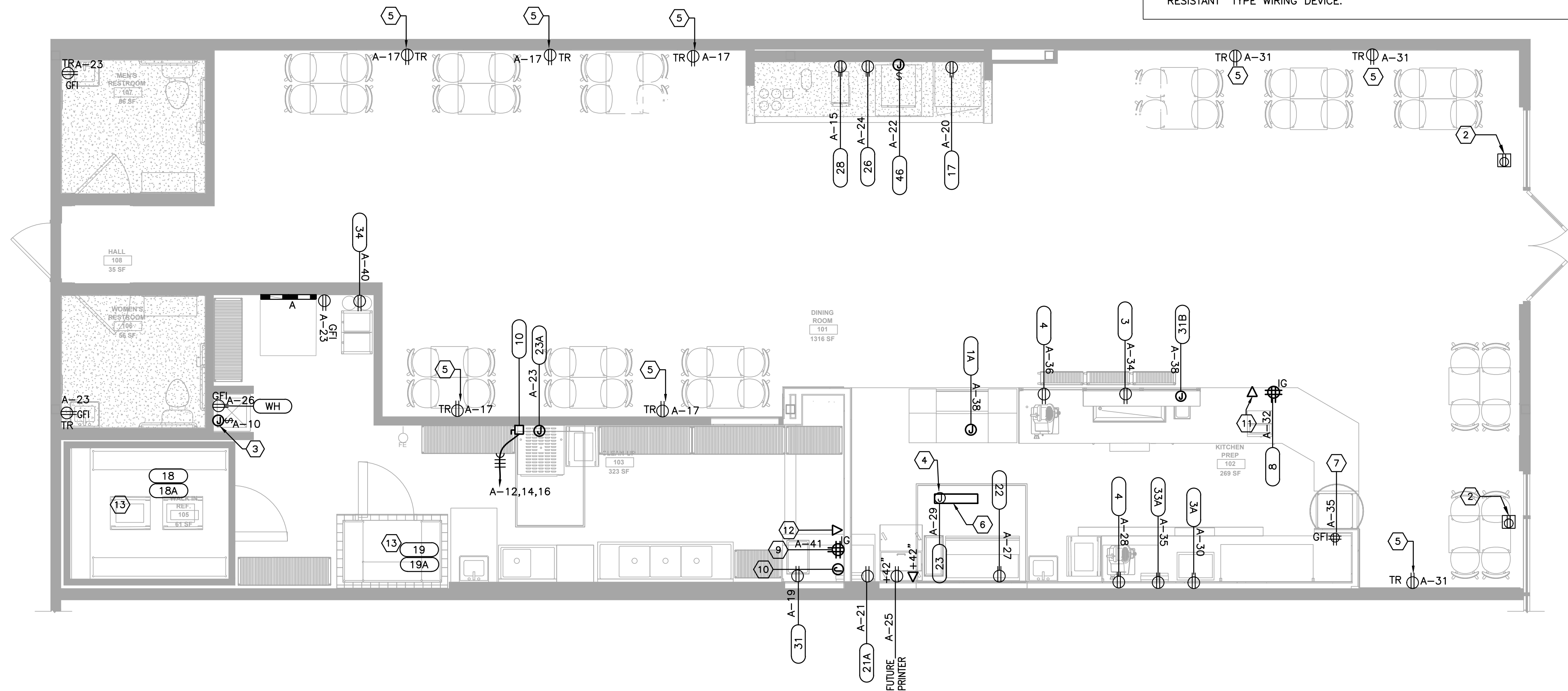
EQUIPMENT SCHEDULE										
QTY	ITEM	DESCRIPTION	MANUFACTURER	MODEL	VOLT/ PH	AMPS	DEVICE	WIRE SIZE	ROUGH-IN	NOTES
1	(1A)	5'-10" DELI CASE	HOWARD-MCRAY	SC-CDS34N-6-JM	120/1	8.7	⌀	(2)#12, (1)#12G, 3/4"C.	⌀24" A.F.F.	5-20P
1	(3)	4'-0" DROP-IN COLD UNIT	DELIFIELD	N8148-EFN	120/1	7.5	⌀	(2)#12, (1)#12G, 3/4"C.	⌀18" A.F.F.	5-15P
1	(3A)	2'-0" DROP-IN COLD UNIT	DELIFIELD	N8118-EF	120/1	7.5	⌀	(2)#12, (1)#12G, 3/4"C.	⌀18" A.F.F.	5-15P
2	(4)	DELI SLICER	BIZERBA	GSP-H33 W/LIFT	120/1	3.5	⌀	(2)#12, (1)#12G, 3/4"C.	⌀18" A.F.F.	--
2	(8)	CASH REGISTER	INFOSOFT	UP700	120/1	5.0	⌀	(2)#12, (1)#12G, 3/4"C.	⌀24" A.F.F.	--
1	(10)	BREAD OVEN	NUVU	QB 5/10 AUTOMIST	208/3	29.0	□ ^{60A}	(3)#8, (1)#10G, 1"C.	⌀48" A.F.F.	--
1	(17)	SINGLE-DOOR PEPSI COOLER	PEPSI	1160	120/1	7.2	⌀	(2)#12, (1)#12G, 3/4"C.	⌀18" A.F.F.	--
1	(18)	WALK-IN COOLER	EXISTING							
1	(18A)	WALK-IN COOLER CAPSULE PAK	EXISTING							
1	(19)	STEP-IN FREEZER	EXISTING							
1	(19A)	STEP-IN FREEZER CAPSULE PAK	NORLAKE							
2	(21A)	SANDWICH UNIT	ENTREE	JM-ST-27E-2DX	120/1	7.2	⌀	(2)#12, (1)#12G, 3/4"C.	⌀24" A.F.F.	5-15P
1	(22)	GRILLE	IMPERIAL	IR-G48T-XB-JMI	120/1	6.0	⌀	(2)#12, (1)#12G, 3/4"C.		
1	(23)	EXHAUST HOOD/FIRE SUPPRESSION SYSTEM	CAPTIVE AIRE	ANSUL	120/1	5.0	⌀ ⌀	(2)#12, (1)#12G, 3/4"C.	COORDINATE	--
1	(23A)	CONDENSATE HOOD	CAPTIVE AIRE	5424VHB	120/1	7.2	⌀	(2)#12, (1)#12G, 3/4"C.	⌀24" A.F.F.	5-15P
1	(26)	DRINK DISPENSER	PEPSI	DISPENSER: IDC255, ADAPTOR: 80002957	120/1	9.3	⌀	(2)#12, (1)#12G, 3/4"C.	⌀48" A.F.F.	5
1	(28)	ICED TEA BREWER	BUNN	TB3Q	120/1	14.4	⌀	(2)#12, (1)#12G, 3/4"C.	⌀48" A.F.F.	--
1	(31)	COUNTERTOP FOOD WARMER	HOSHIZAKI	71001 MODEL 1001	120/1	5.8	⌀	(2)#12, (1)#12G, 3/4"C.	⌀48" A.F.F.	5-15P
1	(31B)	COUNTER-TOP BACON WARMER	MARSHALL	JM8001K	120/1	3.5	⌀	(2)#12, (1)#12G, 3/4"C.	⌀18" A.F.F.	10
1	(33A)	UNDER-COUNTER REFRIGERATOR	HOSHIZAKI	CRM27-D	120/1	2.6	⌀	(2)#12, (1)#12G, 3/4"C.	⌀80" A.F.F.	5-15P
1	(34)	BAG-IN-BOX SYSTEM	PEPSI	PEPSI	120/1	5.0	⌀	(2)#12, (1)#12G, 3/4"C.	⌀80" A.F.F.	--
1	(46)	ICE MAKER	HOSHIZAKI	KM-520MAJ	120/1	10.6	⌀	(2)#12, (1)#12G, 3/4"C.	⌀48" A.F.F.	--
1	(WH)	GAS FIRED WATER HEATER	NAVLEN	NPE-240A	120/1	1.0	⌀	(2)#12, (1)#12G, 3/4"C.	--	--
NOTES:										
1. FOR WALK-IN COOLER LIGHTS AND DOOR HEATER. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER PRIOR TO COMMENCING WORK. 15A MAX BREAKER.										
2. FOR WALK-IN COOLER COMPRESSOR/EVAPORATOR. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER PRIOR TO COMMENCING WORK. 20A MAX FUSE.										
3. FOR STA-IN FREEZER LIGHTS, DOOR HEATER, FAN, AND/OR DRAIN LINE HEATER. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER PRIOR TO COMMENCING WORK. 15A MAX BREAKER.										
4. FOR STA-IN FREEZER COMPRESSOR. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER PRIOR TO COMMENCING WORK. 15A MAX FUSE.										
5. DEDICATED DUPLEX RECEPTACLE MOUNTED BELOW COUNTER-TOP WITH IN 6'-0" OF EQUIPMENT.										
6. PROVIDE 30A, 208V/1-PHASE FUSED DISCONNECT WITH (2) 20A FUSES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MANUFACTURER.										
7. PROVIDE 30A, 208V/3-PHASE FUSED DISCONNECT WITH (3) 15A FUSES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MANUFACTURER.										
8. SYSTEM REQUIRES 120V SERVICE FOR FAN MOTORS AND/OR DRAIN LINE HEATERS. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.										
9. PROVIDE 30A, 208V/3-PHASE, NON-FUSED DISCONNECT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR.										
10. UNIT TO BE HARDWIRED. SEE SPEC SHEET FOR EXACT MOUNTING REQUIREMENTS.										

POWER PLAN KEYED NOTES

- NOT USED.
- EXISTING SHOW WINDOW RECEPTACLE TO REMAIN.
- PROVIDE A MOTOR RATED SWITCH AS DISCONNECTING MEANS FOR RE-CIRC PUMP LOCATED ABOVE CEILING. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. RE-CIRC PUMP SHALL BE CONTROLLED BY AUTOMATIC TIMER KIT PROVIDED BY MANUFACTURER, CIRCUIT PER MANUFACTURER RECOMMENDATIONS.
- EXHAUST FAN HOOD. CONTRACTOR SHALL PROVIDE "SHUNT-TRIP" CIRCUIT BREAKERS ON ALL ELECTRICAL EQUIPMENT UNDER THE HOOD. FAN(S) INTERLOCK AND SHUNT-TRIP SHALL BE WIRED THRU HOOD FIRE SUPPRESSION SYSTEM CONTROL. SEE MECHANICAL HOOD DRAWINGS FOR MORE INFORMATION AND ADDITIONAL REQUIREMENTS.
- FINAL LOCATION OF TAMPER-RESISTANT OUTLETS IN DINING SHALL BE DETERMINED BY OWNER.
- EXISTING HOOD SYSTEM CONTROLLER TO BE RELOCATED. VERIFY EXACT LOCATION WITH EQUIPMENT SUPPLIER. COORDINATE ALL WIRING REQUIREMENTS AND UNIT INTERLOCKS WITH MECHANICAL HOOD DRAWINGS.
- EC TO PROVIDE QUAD OUTLET INSIDE OF STORAGE NOOK. MOUNT RECEPTACLE AT 54" AFF.
- NOT USED.
- PROVIDE DEDICATED QUAD RECEPTACLE AT TELEPHONE/DATA/TV SHELF ON NEW SOFFIT. MOUNT 6" BELOW CEILING. COORDINATE EXACT LOCATION.
- FIELD VERIFY LOCATION OF EXISTING 1" CONDUIT WITH PULL-STRING TO LANDLORD TELEPHONE DEMARC.
- CAT6 DATA OUTLET. PROVIDE 1/2" CONDUIT WITH CAT6 CABLE TO TELEPHONE/DATA/TV SHELF.
- PROVIDE CAT6 DATA OUTLET AT TELEPHONE/DATA/TV SHELF ON NEW SOFFIT. MOUNT 6" BELOW CEILING. COORDINATE EXACT LOCATION.
- EXISTING LOADS TO REMAIN.

GFCI NOTES

- ALL KITCHEN AND RESTROOM SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER N.E.C.
- ALL GFCI RECEPTACLES AND DEAD-FRONT TYPE GFI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION OR A GFCI CIRCUIT BREAKER OR DEAD FRONT GFI DEVICE IN A READILY ACCESSIBLE LOCATION SHALL BE USED TO FEED THE CIRCUIT NOTED.
- ALL 125V, 15A AND 20A CIRCUITS TO KITCHEN EQUIPMENT SHALL BE FED WITH A DEDICATED NEUTRAL WIRE.
- TR NOTATION APPEARING ADJACENT TO A WIRING DEVICE IDENTIFIES A "TAMPER RESISTANT" TYPE WIRING DEVICE.

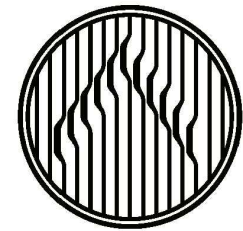


1 ELECTRICAL POWER PLAN

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



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Description Date

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Electrical Power Plan

Project # 43423-M011

Issue Date 02/23/2023

Scale As indicated

Drawn by JRS

Checked by MJ

E3.0

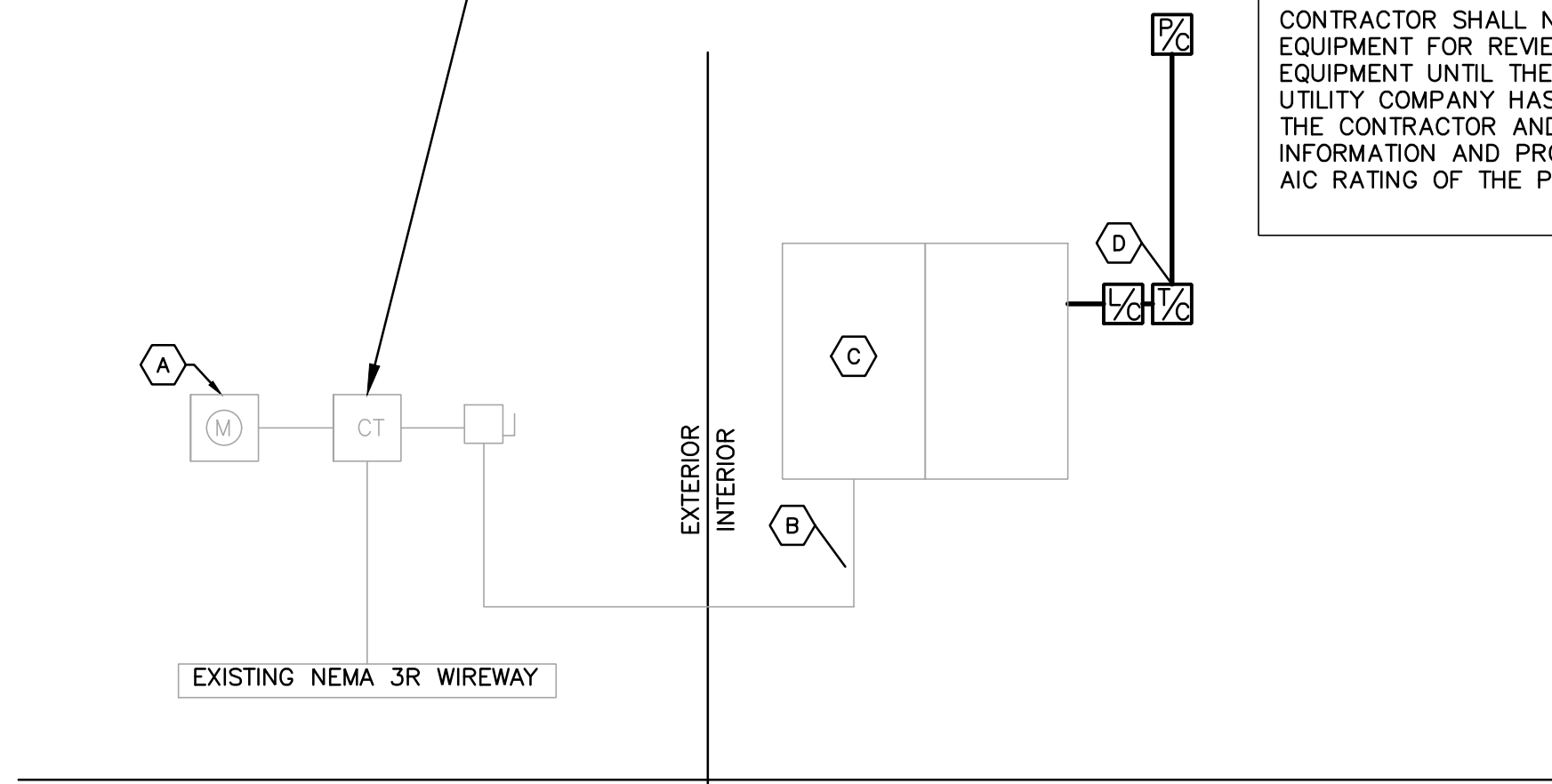
NOTES	MOUNT: FLUSH				120/208	3-PHASE, 4W		PANEL EX A				CAPACITY: 400A				INT CAP: 22KA				NOTES		
	LOCATION: ELEC ROOM					LUGS: MCB								DEMAND LOAD: 202A				AV. FAULT: 10.4KA				
	CKT	LTG	REC	HVAC	MISC	KIT	DESCRIPTION		AMP	POLE	AMP	POLE	DESCRIPTION		LTG	REC	HVAC	MISC	KIT		CKT	
B	1			5.52			RTU-1	50	3	A	20	1	LIGHTING	1.0						2	LO/TS	
B	3			5.52						B	20	1	LIGHTING	1.0							4	LO/TS
B	5			5.52						C	20	1	TIME CLOCK					0.5			6	
B	7			5.52						A	20	1	SPARE								8	
B	9			5.52			RTU-2	50	3	B	20	1	WATER HEATER		0.5					10		
B	11			5.52						C											3.8	12
B	13		0.50							A	40	3									3.8	14
A	15					1.7				B	20	1	BREAD OVEN								3.8	16
	17		1.00				CONVENCE REC	20	1	C	20	1	RECEP		0.2					18		
A/C	19					0.4	COUNTERTOP WARMER	20	1	A	20	1	PEPSI COOLER					0.9		20	A	
A	21					0.9	SANDWICH UNIT	20	1	B	20	1	ICE MAKER						1.3	22	C	
	23		0.60				BATHROOM REC	20	1	C	20	1	DRINK DISPENSER						1.2	24	A	
	25					0.50	PRINTER	20	1	A	20	1	RE CIRC PUMP		0.5					26		
DF	27		1.0				GRILL	20	1	B	20	1	SLICER						0.4	28	A	
	29		0.50				LTG HOOD	20	1	C	20	1	SANDWICH UNIT						0.9	30	A	
	31		0.8				CONVENCE REC	20	1	A	20	1	CASH REGISTER					0.8		32	A/LO	
B	33		0.80				SHOW WINDOW	20	1	B	20	1	COLD UNIT					0.9		34	A	
	35					0.5	U.C REFRIG	20	1	C	20	1	SLICER						0.4	36	A	
B	37					1.5	HAND DRYER	20	1	A	20	1	WARMER					1.0	38	A/C		
B	39					1.5	HAND DRYER	20	1	B	20	1	BAG IN BOX					1.0		40	A	
	41					0.5	TELEPHONE	20	1	C	20	1	LIGHTING EXTERIOR	1.0						42	TS/LO	
B	43					1.2	COOLER LIGHTS/EVAP	20	1	A	20	1	EXHAUST FAN		1.2					44		
B	45					0.9	SPARE	20	1	B	20	1	SPARE							46		
	47					0.9	COOLER CONDENSER	20	1	C	20	1	SPARE							48		
	49						SPARE	20	1	A	20	1	SPARE							50		
	51						SPARE	20	1	B	20	1	SPARE							52		
	53					1.2	EXHAUST FAN	20	1	C	20	1	SPARE							54		
B	55					1.2	FREEZER	20	1	A	20	1	SPARE							56		
	57						SPARE	20	1	B	20	1	SPARE							58		
	59						SPARE	20	1	C	20	1	SPARE							60		
	61						SPARE	20	1	A	20	1	SPACE							62		
	63						SPACE	20	1	B	20	1	SPACE							64		
	65						SPACE	20	1	C	20	1	SPACE							66		
	67						SPACE	20	1	A	20	1	SPACE							68		
	69						SPACE	20	1	B	20	1	SPACE							70		
	71						SPACE	20	1	C	20	1	SPACE							72		
	73						SPACE	20	1	A	20	1	SPACE							74		
	75						SPACE	20	1	B	20	1	SPACE							76		
	77						SPACE	20	1	C	20	1	SPACE							78		
	79						SPACE	20	1	A	20	1	SPACE							80		
	81						SPACE	20	1	B	20	1	SPACE							82		
	83						SPACE	20	1	C	20	1	SPACE							84		

PHASE BALANCE			LOAD TYPE		CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING		3.5 KVA	4.4 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
			RECEPTACLE		5.9 KVA	5.9 KVA	10KVA + 50% REMAINDER NEC 220.44	77.3 KVA	72.8KVA
A			26.3 KVA	34%	HVAC	35.5 KVA	LOAD X 100% (USED MCA IN CALCULATION)	214.5A	202.0A
B			26.8 KVA	35%	MISC	5.6 KVA	LOAD X 100% NEC 210.19 NON-CONT.		
C			24.2 KVA	31%	KIT	26.8 KVA	21.5 KVA	80% PER NEC TABLE 220.56	

NOTES:
A. CIRCUIT BREAKER GFCI - INDICATES 5mA TRIP GFCI TYPE CIRCUIT BREAKER.
B. EXISTING CIRCUIT TO REMAIN
C. PROVIDE PADLOCK ACCESSORY ON BREAKER

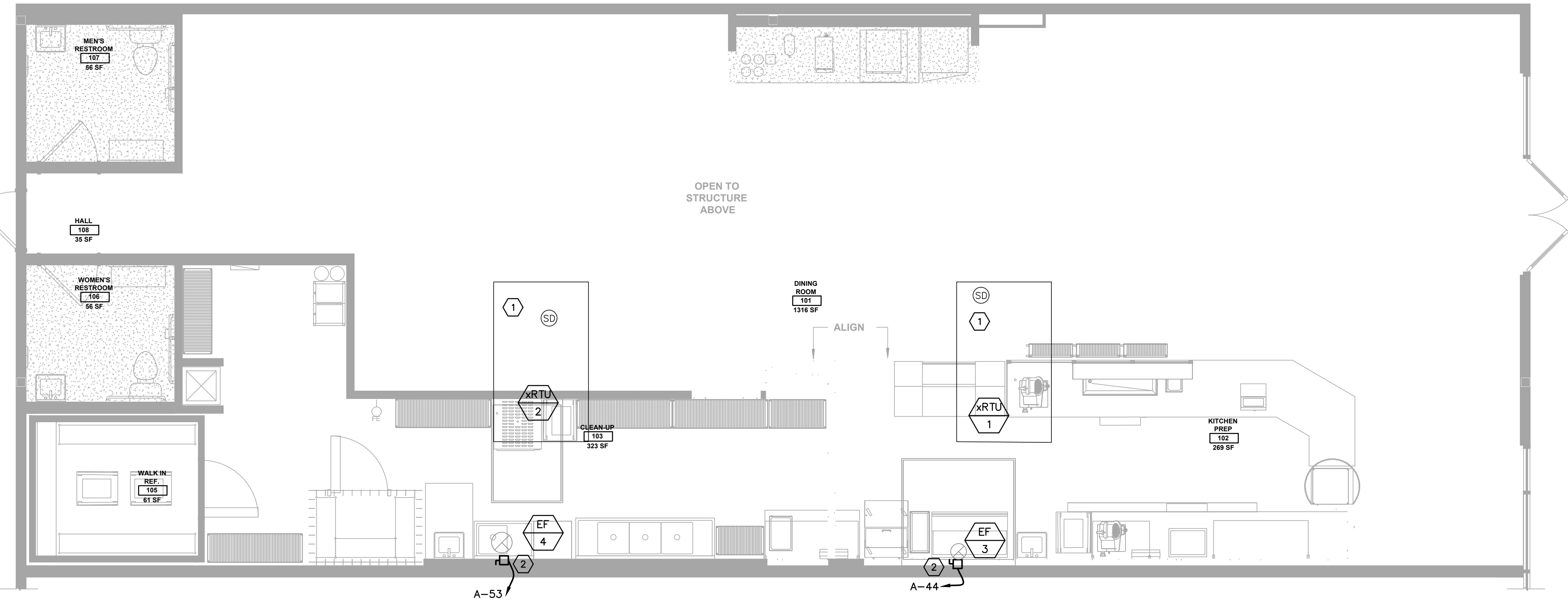
TS - CIRCUIT VIA TIMESWITCH
LO - PROVIDE LOCK-ON DEVICE
PL - PROVIDE PADLOCKING ACCESSORY ON BREAKER

EXISTING CT
CABINET TO REMAIN



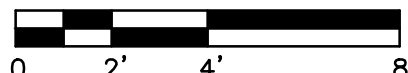
2 ELECTRICAL RISER DIAGRAM

SCALE: NONE



1 MECHANICAL EQUIPMENT POWER PLAN

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



NOTE:

AT THE TIME OF DESIGN, FAULT CURRENT CALCULATIONS WERE UNABLE TO BE PERFORMED. THE FUTURE BUILDING ELECTRICAL SERVICE AND ARRANGEMENT IS TO BE DETERMINED AT A FUTURE DATE, AND FAULT CURRENTS SHALL BE CALCULATED WHEN AVAILABLE TO THE ENGINEER. THE EQUIPMENT HAS BEEN SERIES RATED AGAINST A WORST CASE SCENARIO TO ENSURE THE PROTECTION OF EQUIPMENT.

PRIOR TO SUBMITTING THE POWER DISTRIBUTION EQUIPMENT PRODUCT DATA FOR REVIEW, THE ELECTRICAL CONTRACTOR SHALL CONTACT THE UTILITY COMPANY TO VERIFY THE FAULT CURRENT VALUES AVAILABLE FROM THE UTILITY COMPANY AND SUBMIT THE UTILITY COMPANY FAULT CURRENT INFORMATION TO THE ENGINEER FOR REVIEW AND EVALUATION.

AFTER THE UTILITY FAULT CURRENT INFORMATION HAS BEEN REVIEWED AND EVALUATED BY THE ENGINEER, ANY REVISIONS TO THE BASIS OF DESIGN AIC VALUES IDENTIFIED ON THE DRAWINGS THAT MAY BE REQUIRED BASED ON THE FAULT CURRENT INFORMATION RECEIVED FROM THE UTILITY COMPANY SHALL BE COMMUNICATED TO THE ELECTRICAL CONTRACTOR.

CONTRACTOR SHALL NOT SUBMIT THE POWER DISTRIBUTION EQUIPMENT UNTIL THE FAULT CURRENT INFORMATION FROM THE UTILITY COMPANY HAS BEEN SUBMITTED TO THE ENGINEER BY THE CONTRACTOR AND THE ENGINEER HAS EVALUATED THE INFORMATION AND PROVIDED FINAL DIRECTION REGARDING THE AIC RATING OF THE POWER DISTRIBUTION EQUIPMENT.

ALL INFORMATION REGARDING CURRENT CONDITIONS ARE VIA SECOND PARTY FIELD SURVEY. EC IS RESPONSIBLE FOR FIELD VERIFICATION OF SITE CONDITIONS AND REPORTING ANY DIFFERENCES OR DISCREPANCIES TO OWNERS REPRESENTATIVE PRIOR TO BID. NO EXTRAS OR CHANGE ORDERS SHALL BE GIVEN FOR CONTRACTOR'S FAILURE TO VERIFY SITE CONDITIONS PRIOR TO BIDDING.

GFCI NOTES

- ALL KITCHEN AND RESTROOM SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER N.E.C. 2020.
- ALL GFCI RECEPTACLES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION OR A DEAD FRONT GFI DEVICE INSTALLED IN A READILY ACCESSIBLE LOCATION SHALL BE PROVIDED OR A GFCI CIRCUIT BREAKER SHALL USED TO FEED THE CIRCUIT NOTED.
- ALL 125V, 15A AND 20A CIRCUITS TO KITCHEN EQUIPMENT SHALL BE FED WITH A DEDICATED NEUTRAL WIRE.

RISER DIAGRAM + PANEL SCHEDULE GENERAL NOTES

- TGC SHALL VERIFY LENGTH OF FEEDERS PRIOR TO (AND INCLUDE PRICING IN) BID.
- VERIFY FAULT CURRENT RATING (AIC) WITH POWER COMPANY.
- PROVIDE PHENOLIC ENGRAVED NAMEPLATES PERMANENTLY ATTACHED TO ALL ELECTRICAL EQUIPMENT STATING AMPERAGE, VOLTAGE, PHASE, HIGH-LEG-DELTA, ETC.
- CONTRACTOR TO BALANCE PANELBOARD PHASE LOADS TO WITHIN 10%.
- IN LIEU OF THE MAXIMUM AVAILABLE FAULT CURRENT MARKING AS REQUIRED BY 110.24, A PERMANENTLY AFFIXED LABEL SHALL BE APPLIED WITH THE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2"x3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION.
- ALL SPARE CIRCUIT BREAKERS SHALL BE TURNED TO THE "OFF" POSITION.
- PANELS SHALL BE LABELED TO IDENTIFY THE AVAILABLE ARC FLASH HAZARD AT THE PANEL IN ACCORDANCE WITH APPLICABLE NEC REQUIREMENTS.
- BASED UPON WORK LETTER INFORMATION, THE SERVING LANDLORD SHALL FURNISH AND INSTALL (1) 200A, 120/208V, 3PH PANELBOARD (IDENTIFIED PANEL 'A'). PANEL BREAKERS ARE NOT ESTABLISHED BY THE WORK LETTER TO BE PROVIDED BY THE LANDLORD, AND IT IS ASSUMED ALL BREAKERS IN THE PANELBOARD SHALL BE PROVIDED BY E.C. THE E.C. SHALL VERIFY IF THEY SHALL BE RESPONSIBLE FOR THE PANELBOARD MAIN BREAKER AND PROVIDE NEW AS NECESSARY TO PROVIDE A SERIES RATED COMBINATION TO THE PANEL AS INSTRUCTED. ALL BREAKERS PROVIDED WITHIN THE EXISTING PANEL SHALL BE OF THE SAME MANUFACTURER AS THE PANELBOARD MANUFACTURER, SHALL BE OF A LETTER TYPE AS LISTED BY THE MANUFACTURER TO MAINTAIN THE 'UL' LISTING OF THE PANELBOARD, AND SHALL BE RATED TO PROTECT AGAINST THE AVAILABLE FAULT CURRENT AS INSTRUCTED BY THESE DRAWINGS.

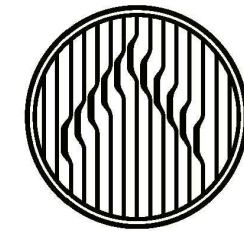
RISER DIAGRAM KEYED NOTES

- EXISTING 400AMP CT AND 400/3 CIRCUIT TO REMAIN. PROVIDE A NEW ENGRAVED NAMEPLATE AT THIS SWITCH TO IDENTIFY THE NEW TENANT.
- EXISTING FEEDER TO REMAIN
- EXISTING PANEL 'A' AS FURNISHED AND INSTALLED BY LANDLORD. CONNECTIONS TO BE PROVIDED BY E.C. SEE PANEL SCHEDULES THIS SHEET FOR INFORMATION
- NEW LIGHTING CONTROLS BY EC. SEE DETAIL 2/E2.0.

MECHANICAL EQUIPMENT KEYED NOTES

- EXISTING ELECTRICAL LOADS TO REMAIN
- E.C. TO COORDINATE INSTALLATION OF EF-3, EF-4 WITH MECHANICAL CONTRACTOR. PROVIDE #12 CONDUCTORS TO MANUFACTURER PROVIDED DISCONNECT SWITCHES. PROVIDE INTERLOCK WIRING WITH RTU-1, RTU-2.

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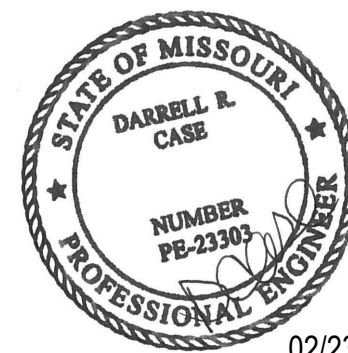


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Description Date

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Client Approval

Electrical Schedules

Project # 43423-M011

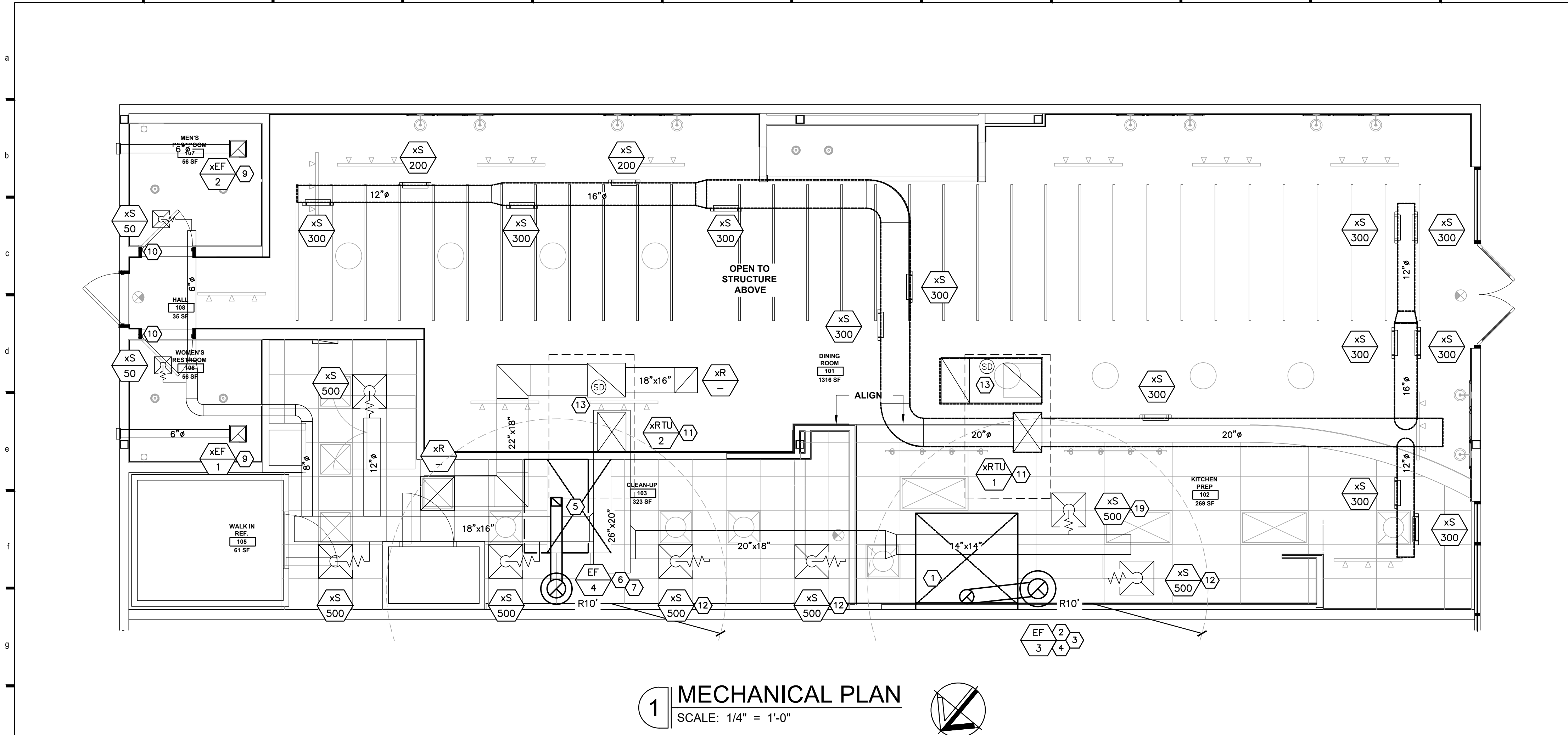
Issue Date 02/23/2023

Scale As indicated

Drawn by JVH

Checked by MJ

E4.0



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

GENERAL NOTE

ALL ROOF WORK NEEDS TO BE COORDINATED WITH THE SHELL ROOFING SUBCONTRACTOR AND/OR ROOFING MANUFACTURER TO ENSURE NO WARRANTIES ARE VOIDED.

HVAC SYMBOLS LEGEND			
☒	SUPPLY AIR DIFFUSER	☐	RETURN AIR GRILLE
CHS	CHILLED WATER SUPPLY	C	GAS LINE
CHR	CHILLED WATER RETURN	D	CONDENSATE DRAIN LINE
HS	HOT WATER SUPPLY	TE	TOILET EXHAUST
HR	HOT WATER RETURN	M	MOTORIZED DAMPER
R.D.	REF. DISCHARGE LINE	S	SMOKE DETECTION DEVICE
R.S.	REF. SUCTION LINE	T	THERMOSTAT
O.A.	OUTDOOR AIR	SD	SMOKE DETECTOR
R.A.	RETURN AIR	F.C.	FLEXIBLE CONNECTION
S.A.	SUPPLY AIR	S.E.	SMOKE EXHAUST
R.A.G.	RETURN AIR GRILLE	☐	AIR DEVICE TYPE
DIFF	DIFFUSER	☐	AIR VOLUME IN CUBIC FEET/MINUTE (CFM)
M.D.	MANUAL DAMPER		
F.D.	FIRE DAMPER		

HVAC + SPRINKLER KEYED NOTES

- NEW 54"x30" TYPE I GRIDDLE HOOD WITH A 3" INTERNAL STANDOFF AND A LAYER OF INSULATION BEHIND THE HOOD FOR TO COMPLY WITH 0" CLEARANCE TO COMBUSTIBLES. PROVIDE COMPLETE FIRE SUPPRESSION SYSTEM FOR EQUIPMENT UNDER HOOD. REFER TO HOOD DRAWINGS FOR INFORMATION.
- NEW EXHAUST FAN (EF-3) FOR TYPE I GRIDDLE HOOD. REUSE EXISTING EXHAUST DUCT PENETRATION. REFER TO HOOD DRAWINGS FOR INFORMATION. MAINTAIN MINIMUM 10'-0" HORIZONTAL DISTANCE BETWEEN EXHAUST FAN AND OUTSIDE AIR INTAKES.
- NEW 9"x9" WELDED 16 GAUGE BLACK STEEL GREASE DUCT WITH LIQUID TIGHT EXTERNAL WELD FROM TYPE I GRIDDLE HOOD. ROUTE DUCTWORK THRU ROOF TO EF-3. PROVIDE CLEAN-OUTS IN HORIZONTAL DUCTWORK AND EACH CHANGE OF DIRECTION AND MAX. 20 FT ON CENTER AS REQUIRED BY CODE.
- PROVIDE GREASE DUCT WRAP WITH TWO (2) LAYERS OF 3M FIRE BARRIER DUCT WRAP 15A, 1-1/2" THICK WITH 4" PERIMETER AND LONGITUDINAL OVERLAPS WHERE REQUIRED BY CODE. PROVIDE TWO HOUR FIRE RESISTIVE RATING AND ZERO CLEARANCE TO COMBUSTIBLES AT OVERLAP OR COLLAR. 3M FIRE BARRIER DUCT WRAP IS LISTED BY INTERTEK 3MU/FRD 120-13 (FORMERLY OPL GD556F) AND ASTM E 2336. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO GREASE EXHAUST DUCT DETAIL ON DWG. M2.1 FOR ADDITIONAL INFORMATION.
- NEW 45"x54" TYPE II BREAD OVEN HOOD. REFER TO HOOD DRAWINGS FOR INFORMATION.
- NEW EXHAUST FAN (EF-4) FOR TYPE II BREAD OVEN HOOD. REFER TO HOOD DRAWINGS FOR INFORMATION. LOCATE ON ROOF IN FRONT OF TENANT'S SPACE. MAINTAIN MINIMUM 10'-0" HORIZONTAL DISTANCE BETWEEN EXHAUST FAN AND OUTSIDE AIR INTAKES.
- 7"x6" EXHAUST DUCT FROM TYPE II BREAD OVEN HOOD. ROUTE DUCTWORK UP THRU ROOF TO EF-4. TRANSITION DUCT AT FAN.
- FURNISH AND INSTALL SEVEN-DAY PROGRAMMABLE THERMOSTATS WITH AUTO CHANGEOVER AND RELATED WIRING TO CONTROL ROOF TOP UNITS. THERMOSTATS TO BE HONEYWELL MODEL TB7220. MOUNT AT 48" AFF. VERIFY LOCATION OF THERMOSTATS WITH ELEVATION ON ARCHITECTURAL DRAWINGS. VERIFY PROPER OPERATION IN FIELD.
- EXISTING TOILET EXHAUST FANS (xEF-1,2) TO REMAIN. FAN SHALL BE WIRED AND OPERATED THROUGH THE LIGHT SWITCH. COORDINATE WITH ELECTRICAL CONTRACTOR.
- DOOR TO BE UNDERCUT FOR MAKE-UP AIR.
- EXISTING 10 TON ROOFTOP UNITS. (xRTU-1,2). TO REMAIN. TRANSITION FROM ROOFTOP UNIT SUPPLY AND RETURN DUCT DROPS TO DUCT SIZES SHOWN ON PLANS. COORDINATE LOCATION IN FIELD WITH ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS. SEE EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- SUPPLY AIR DIFFUSER CFM SHALL BE ADJUSTED AS REQUIRED FOR PROPER AIR FLOW AROUND THE HOOD.
- PROVIDE NEW SMOKE DETECTOR IN RETURN DUCT TO MEET CODE REQUIREMENTS IF NONE EXISTING.

ROOFTOP UNIT SCHEDULE																
MARK	MFR	MODEL NO.	CFM	O.A. CFM	ESP	HP	CLG TONS	CLG MBH		HEATING GAS MBH		ELECTRICAL			WEIGHT LBS	REMARKS
								TOT.	SENS.	IN	OUT	MCA	MOCP	VOLT/PHASE		
xRTU-1	LENNOX	KGA120S4B	3600	890	1.0	3	10	108.8	80.5	180	144	46	50	208/3	1600	1,2,3
xRTU-2	LENNOX	KGA120S4B	4000	890	1.0	3	10	108.8	80.5	180	144	46	50	208/3	1600	1,2,3
1. INTERLOCK OPERATION SUPPLY FANS AND EXHAUST FANS. SEE EXHAUST FAN SCHEDULE FOR ADDITIONAL INFO.																
2. VERIFY ELECTRICAL VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.																
3. EXISTING ROOFTOP UNIT TO REMAIN. VERIFY PROPER OPERATION IN FIELD.																

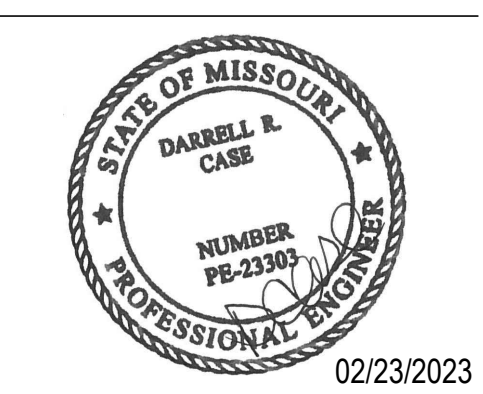
EXHAUST FAN SCHEDULE										AIR BALANCE SCHEDULE			
MARK	MANUFACTURER	MODEL NO.	ESP	RPM	CFM	WEIGHTS	VOLTS/PH	REMARKS		MARK	OA CFM	EA CFM	BALANCE
xEF-1	COOK	GC-128	0.1	750	75	54	120/1	1,2,3		RTU-1	890	-	
xEF-2	COOK	GC-128	0.1	750	75	54	120/1	1,2,3,4		RTU-2	890	-	
EF-3	CAPTIVEAIRE	DU50HFA	1.0	1471	1000	84	115/1	1,5		EF-3	-	-1000	
EF-4	CAPTIVEAIRE	DU12HFA	0.5	1407	375	54	115/1	1,5		EF-4	-	-375	
1. VERIFY ELECTRICAL VOLTAGE AND PHASE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING UNIT. 2. PROVIDE ROOF CURBS AND DISCONNECT WITH FAN. FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. 3. INTERLOCK OPERATION SUPPLY FANS AND EXHAUST FANS. EF-3, EF-4 WITH xRTU-1. ELECTRICAL INTERLOCK WITH OVEN CONTROLS. 4. FAN TO BE CONTROLLED BY SWITCH. 5.										xEF-1	-	-75	
										xEF-2	-	-75	
										TOTAL:	1780	-1525	+255

DESCRIPTION	AREA (SQ. FT.)	AREA OUTDOOR AIR RATE PER IMC TABLE 403.3 (RA)	AREA OUTDOOR AIR (RoAz)	OCCUPANT LOAD RATE PER IMC TABLE 403.3 (PEOPLE/1000 SQ. FT.)	OCCUPANCY CxP /1000 (Pz)	OCCUPANT OUTDOOR AIR RATE PER IMC TABLE 403.3 (Rp)	OCCUPANT OUTDOOR AIR (RpPz)	BREATHING ZONE OUTDOOR AIR (Vbz=RpPz +RoAz)	ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez)	ZONE OUTDOOR AIR (Voz=Vbz/Ez)	SUPPLY AIR DESIGN (Vpz)	OUTDOOR AIR FRACTION (Zp=Voz/Vpz)
DINING	1392	0.18	251	70	97	7.5	728	979	0.8	1224	4000	0.31
KITCHEN/PREP	295	0.12	35	20	6	7.5	45	80	0.8	100	1000	0.10
BOH	348	0.06	21	20	7	5	35	56	0.8	70	2500	0.03
M.W.TLT	110	-	-	-	-	-	-	-	0.8	-	100	-
TOTALS	2145				50					1394	7600	0.18
TOTAL REQUIRED OUTDOOR AIR												Ev
												0.99

Description	Date
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Client Approval

Mechanical Plan	
Project #	43423-M011
Issue Date	02/23/2023
Scale	As indicated
Drawn by	GWC
Checked by	MV

DIVISION - 15 MECHANICAL SPECIFICATIONS

GENERAL

- A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.
- B. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.
- SCOPE
- EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION.

INSPECTION OF SITE

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOB SITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

PERMITS

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

CODE REQUIREMENTS

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE OWNER, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICATIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

MATERIALS AND WORKMANSHIP

- A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.
- B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES, DO NOT JUST ABANDON.

CODES AND REGULATIONS

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

PROTECTION OF WORK AND PROPERTY

- A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.
- B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK, AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIMSELF, OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

COOPERATION

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFERENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

SUBSTITUTION OF MATERIALS

MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

SHOP DRAWINGS

SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

DRAWINGS AND SPECIFICATIONS

- A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.
- B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

RESPONSIBILITY

- A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.

- B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

HEATING, VENTILATING AND AIR CONDITIONING

GENERAL

- A. THE WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS, INFORMATION, OR INSTRUCTIONS TO BIDDERS, AND THE GENERAL CONDITIONS, APPENDIX, OR DIRECTIVES WHICH MAY BE ISSUED BY THE OWNER, HEREWITH, OR OTHERWISE, SHALL BE COMPLIED WITH IN EVERY RESPECT.
- B. THE LISTING HEREIN OF AN ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL EACH ITEM LISTED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THE CONTRACTOR SHALL PERFORM EACH OPERATION PRESCRIBED OR LISTED ACCORDING TO THE CONDITIONS STATED.

EXAMINATION OF SITE

ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS THEREON AND/OR THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.

SCOPE

FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE FULLY OPERATIVE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM EXCEPT AS SPECIFICALLY EXCLUDED BY THE DRAWINGS, AND/OR TENANT'S DIRECTIONS.

EQUIPMENT

- A. 1. SPLIT SYSTEM UNITS: FURNISH HEATING AND AIR CONDITIONING AS SCHEDULED. UNIT TO BE COMBINED PACKAGED SYSTEM, ALL SEASON EQUIPMENT, CONSISTING OF GAS HEATING SECTION, BLOWER, DX COIL, COMPRESSOR(S), AND AIR COOLED CONDENSING SECTION. UNIT SHALL BE DESIGNED FOR DOWN FLOW ARRANGEMENT WITH ALL DUCT PENETRATIONS WITHIN FACTORY FLOOR CURB.
2. FEATURES: UNITS TO BE WOUND FOR VOLTAGE AND PHASE AS SCHEDULED. HEAVY GAUGE ALUMINIZED STEEL, STAINLESS STEEL OR COATED HEAT EXCHANGER WILL BE ACCEPTABLE. UNIT MUST BE A.S.A. APPROVED FOR OUTDOOR APPLICATION. DIRECT EXPANSION COIL WITH FACTORY INSTALLED EXPANSION VALVE - BLOWER SHALL BE OF THE CENTRIFUGAL BELT DRIVEN OR MULTI-SPEED DIRECT DRIVE TYPE WITH FORWARD CURBED BLADES - BLOWER AND MOTOR ISOLATED FOR QUIET OPERATION - BUILT IN MOTOR STARTER WITH OVER VOLTAGE PROTECTION. HERMETICALLY SEALED COMPRESSOR WITH INHERENT OVERLOAD PROTECTION THERMOSTAT - 5 YEAR WARRANTY ON COMPRESSOR AND 10-YEAR WARRANTY ON HEAT EXCHANGER - CONDENSER COIL CONSTRUCTED OF COPPER TUBING WITH ALUMINUM FINS - CRANKCASE HEATERS - BUILT IN MOTOR STARTERS ELECTRIC IGNITION - HIGH, LOW PRESSURE CUTOUT ON COMPRESSOR - SHUTOFF VALVES ON LIQUID AND SUCTION LINES - SHORT CYCLE TIMER PROTECTION - FILTER DRYER - VIBRATION ISOLATION. UNIT FACTORY CHARGED.
3. ACCESSORIES: SUPPLY AND RETURN FILTER CASING ASSEMBLY, TWO COMPLETE SETS OF THROWAWAY TYPE FILTERS. FILTERS SHALL BE 2" THICK. ONE SET TO BE REMOVED AND REPLACED JUST PRIOR TO FINAL INSPECTION - FULL ECONOMIZER PACKAGE WITH LOW LEAKAGE FRESH AIR STANDARD RETURN AIR DAMPERS AND DAMPER MOTOR, - MINIMUM POSITION SETTING - PROVIDE MANUFACTURER'S INTERFACE AS REQUIRED FOR OPERATION WITH THERMOSTAT AS SPECIFIED. PROVIDE MOUNTING CURB APPROVED BY NATIONAL ROOF CONTRACTORS ASSOCIATION TO SUPPORT THE ENTIRE ASSEMBLY WITH NAILER STRIP AND AIR TIGHT GASKET.
- E. ALL SINGLE STAGE UNITS WILL BE EQUIPPED WITH PROGRAMMABLE THERMOSTAT. DESIGN AND STANDARD CONDITIONS FOR THERMOSTAT OPERATION WILL BE AS FOLLOWS:
- COOLING: 75°F MAXIMUM OCCUPIED COOLING TEMPERATURE
85°F COOLING NIGHT SETBACK.
- HEATING: 70°F MAXIMUM OCCUPIED HEATING TEMPERATURE
60°F HEATING NIGHT SETBACK.
- FAN: CONTINUOUS IN OCCUPIED AND RECOVERY MODE AND WITH HEATING OR COOLING EQUIPMENT IN UNOCCUPIED MODE.
- DEADBAND: CAPABLE OF MAINTAINING A 5°F DEADBAND.
- CLOCK: 7 DAY CAPABLE OF 7 DIFFERENT DAY SCHEDULES.
- OVERNIGHT: HAVE A 2 HOUR OVERRIDE ACCESSIBLE TO MANAGER.
- BACKUP: CAPABLE OF MAINTAINING PROGRAMMED SETTING FOR AT LEAST 10 HOURS WITHOUT POWER.
- F. THE HVAC SUBCONTRACTOR SHALL IDENTIFY ALL ROOF MOUNTED HVAC EQUIPMENT AND APPARATUS WITH 2" HIGH PAINTED STENCILED STORE NAME ON ALL SIDES OF EQUIPMENT.

DUCTWORK

- A. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:
- | DUCT SIZE | GUAGE |
|--------------|-------------------|
| 12" AND LESS | NO. 26 U.S. GAUGE |
| 13" TO 30" | NO. 24 U.S. GAUGE |
| 31" TO 54" | NO. 22 U.S. GAUGE |
| 55" TO 84" | NO. 20 U.S. GAUGE |
| 85" AND OVER | NO. 18 U.S. GAUGE |
- B. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED AS FOLLOWS:
- | SIZE | METHOD |
|--------------|--|
| 17" AND LESS | "S" AND DRIVE CLEATS |
| 18" TO 30" | "L" STANDING SEAMS ON 3'-0" CENTERS |
| 31" TO 54" | 1-1/4" STANDING SEAMS ON 3'-0" CENTERS |
- GREASE DUCTS SHALL BE BLACK CARBON STEEL NOT LESS THAN 0.054" (16 GA.), ALL SEAMS, JOINTS, AND PENETRATIONS SHALL HAVE A LIQUID TIGHT, CONTINUOUS, EXTERNAL WELD.
1. THE KITCHEN HOOD EXHAUST DUCTWORK SHALL BE ENCLOSED IN A RATED ENCLOSURE PER CODE.
2. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE:
- ALL NECESSARY TRANSITION AND CONNECTION FITTINGS TO THE HOOD AND EXHAUST FANS.
- ALL CLEAN-OUT ACCESS PANELS AS REQUIRED BY CODE.
- ALL ELBOW AND TRANSITION FITTINGS.
- ALL HANGERS AND SUPPORTS.
- SHOP DRAWINGS SHOWING PROPOSED FABRICATION AND INSTALLATION COORDINATED WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.
- ROUND LOW PRESSURE DUCTS SHALL BE SPIRAL WOUND AS MANUFACTURED BY UNITED SHEET METAL COMPANY OR SHOP FABRICATED ROUND DUCTS WITH PITTSBURGH LOCK LONGITUDINAL SEAMS. GAUGES FOR SHOP FABRICATED DUCTS SHALL BE AS FOLLOWS:
- | | |
|-----------------------|--------------|
| UP TO 12" IN DIAMETER | NO. 26 GAUGE |
| 13" TO 30" | NO. 24 GAUGE |
| 31" TO 42" | NO. 22 GAUGE |
| 43" TO 60" | NO. 20 GAUGE |

ELBOWS SHALL HAVE A CENTERLINE RADIUS OF 1-1/2 TIMES DUCT DIAMETER AND MAY BE SMOOTH ELBOWS OR 5 PIECE 90 DEGREE ELBOWS AND 3 PIECE 45 DEGREE ELBOWS. JOINTS OF ROUND DUCTS SHALL BE SLIP TYPE WITH A MINIMUM OF 3 SHEET METAL SCREWS.

1. ALL EXPOSED ROUND LOW PRESSURE DUCTWORK SHALL BE INTERNALLY LINED.
2. ALL LOW PRESSURE DUCTWORK SHALL BE EXTERNALLY SEALED USING UNITED SHEET METAL, MWM EC-800, OR HARDCAST DUCT SEALER INSTALLED IN THE JOINTS PRIOR TO CLOSURE. ADDITIONALLY SEAL ALL EXTERNAL TRANSVERSE JOINTS AND FITTING CONNECTIONS EXTERNALLY.
- C. ALL SUPPLY AIR DUCTS (HEATING AND COOLING) AND RETURN AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED STEEL WITH MIN. 1" (R-5) THICK EXTERNAL THERMAL INSULATION EXCEPT DUCT LINED FOR ACOUSTICAL PURPOSES. ALL EXHAUST AND RELIEF AIR DUCTS SHALL BE GALVANIZED STEEL.
- D. CONTRACTOR WILL INSTALL INSECT SCREENS ON ALL DUCT OPENINGS WHICH LEAD TO OR ARE OUTDOORS. INSECT SCREENS SHALL BE 10 GAUGE, ONE-HALF INCH (1/2") MESH IN REMOVABLE GALVANIZED STEEL FRAMES.
- E. ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (ASHRAE) AND FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST METHODS RECOMMENDED IN THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL, LATEST EDITION.

HANGERS AND SUPPORTS

- A. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND LESS SHALL BE SUPPORTED BY MEANS OF BAND IRON HANGERS OF NO. 18 S. GAUGE ATTACHED TO THE DUCT BY MEANS OF RIVETS, SCREWS, OR CLAMPS, AND FASTENED TO STRUCTURE ABOVE BY TOGGLE BOLTS OR OTHER MEANS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS. VERTICAL DUCTS SHALL BE SUPPORTED WITH 1-1/4" x 1-1/4" x 1-1/4" ANGLES WHERE THEY PASS THROUGH THE FLOOR LINES.
- B. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND MORE SHALL BE SUPPORTED BY MEANS OF ANGLE IRON TRAPEZE HANGERS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS.

FLASHING

- A. CONTRACTOR WILL PROVIDE WATER TIGHT 24 GA. SHEET METAL FLASHINGS AT ALL EXTERIOR WALLS AND ROOF PENETRATIONS.
- B. ALL CUTTING OF ROOF OPENINGS, SUPPORTS FOR ROOF OPENINGS, PITCH PANS, ROOF CURBS, FLASHINGS, COUNTER FLASHINGS, REPAIR TO ROOF, ETC. ASSOCIATED WITH HVAC SUBCONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACT HVAC SUBCONTRACTOR. HE SHALL EMPLOY THE LANDLORD'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.

DAMPERS

- A. SPLITTER DAMPERS SHALL BE FABRICATED OF SHEET STEEL NOT LESS THAN NO. 16 U.S. GAUGE WITH THE LEADING EDGE HEIMED. EACH DAMPER SHALL BE LARGE ENOUGH TO COVER THE SMALLER OF THE TWO OPENINGS IT CONTROLS. DAMPERS SHALL BE CONTROLLED AS FOLLOWS:
- EXPOSED OR ACCESSIBLE DUCTWORK - LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. 1 WITH DAMPER ROD END BEARINGS ON OPPOSITE END.
- CONCEALED DUCTWORK - LOCKING QUADRANT EQUAL TO YOUNG REGULATOR NO. 315 (CHROMIUM PLATED WITH DAMPER ROD END BEARINGS ON BOTH ENDS).
- B. VOLUME DAMPERS SHALL BE OF THE OPPOSED INTERLOCKING TYPE AS MANUFACTURED BY AMERICAN FOUNDRY AND FURNACES CO. (AFFCO) OR EQUAL. BLADES SHALL BE OF NO. 16 GAUGE SHEET METAL AND SHALL NOT EXCEED 48" IN LENGTH OR 12" IN WIDTH. BLADES SHALL BE ON ONE-HALF INCH (1/2") DIAMETER RUSTPROOF AXLE. BEARINGS SHALL BE OF THE SELF-LUBRICATING FERRULE TYPE.
- C. FIRE DAMPERS SHALL BE SUPPLIED AND INSTALLED BY HVAC CONTRACTOR AT DUCT PENETRATIONS IN FIRE RATED WALLS, CEILINGS, AND ROOFS AS REQUIRED. COORDINATE WITH LANDLORD, LOCAL FIRE MARSHALL AND ALL CODES AND GOVERNING AUTHORITIES HAVING JURISDICTION.
- D. JOB FABRICATED TURNING VANES SHALL BE ACCEPTABLE IN SQUARE ELBOWS. PROVIDE AND INSTALL BARBER-COLEMAN AIR TURNS OR EQUAL. TURNING VANES SHALL BE OF THE SAME GAUGE METAL AS THE DUCT IN WHICH THEY ARE INSTALLED. RADIUS ELBOWS SHALL HAVE A CENTERLINE RADIUS OF ONE AND ONE-HALF (1-1/2) TIMES THE DUCT WIDTH.

DUCTWORK - EXCEPTIONS

DUCTWORK FOR EXHAUSTING AIR OR OUTSIDE SUPPLY AIR SHALL BE ALL METAL AND CONSTRUCTED ACCORDING TO RECOMMENDED PRACTICES AS FOUND IN THE LATEST ISSUE OF ASHRAE.

SUPPORT OF DUCT SYSTEM

HANGER DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF THE "SMACNA" MANUAL. REINFORCEMENT MEMBERS MAY BE USED TO SUPPORT DUCT SYSTEM PROVIDED DETAILS OUTLINED IN THE FOREMENTIONED MANUAL ARE ADHERED TO.

DUCTS SHALL BE SUPPORTED AT ALL TURNS AND TRANSITIONS AND NOT MORE THAN 8'-0" O.C. STRAIGHT DUCTS UP TO 59" MAX. DIMENSIONS SHALL BE SUPPORTED 6'-0" O.C. DUCTS OVER 60" MAX. DIMENSIONS SHALL BE SUPPORTED AT 4'-0" O.C.

REINFORCEMENT

ALL DUCTS REQUIRING REINFORCEMENT SHALL BE REINFORCED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL.

MATERIALS FOR REINFORCEMENT MEMBERS SHALL BE GALVANIZED STEEL. ALL SCREWS AND WASHERS SHALL BE PLATED OR GALVANIZED.

ACCESSORY ITEMS

ALL MANUAL DAMPERS, FIRE DAMPERS, TURNING VANES, REGISTER CONNECTIONS, ACCESS DOORS OR OTHER ASSOCIATED ACCESSORIES SHALL BE INSTALLED ACCORDING TO THE LATEST PUBLICATION OF "SMACNA" MANUAL.

TESTING AND ADJUSTING

CONTRACTOR WILL DEMONSTRATE OPERATION OF SYSTEM TO FULL SATISFACTION OF TENANT, WILL BALANCE AIR FLOW IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND WILL RECORD VOLUME READINGS IN ACCORDANCE WITH ASHRAE AND PROVIDE SAME TO TENANT. ALL PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER GOVERNING PLUMBING CODE.

- A. AIR DISTRIBUTION SYSTEMS:
1. INSPECT INSTALLATION AND VERIFY CONFORMITY TO DESIGN. VERIFY THAT SUPPLY, RETURN, AND EXHAUST DUCTS HAVE BEEN PRESSURE-TESTED FOR LEAKAGE AS RECOMMENDED IN THE APPROPRIATE SMACNA STANDARDS.
2. VERIFY THAT VOLUME AND FIRE DAMPERS ARE PROPERLY LOCATED AND FUNCTIONAL.
3. VERIFY THAT SUPPLY, RETURN, EXHAUST AND TRANSFER GRILLES, REGISTERS AND DIFFUSERS ARE INSTALLED AND OPERATING PROPERLY.

- B. VERIFY THAT CONTROL COMPONENTS ARE INSTALLED IN ACCORDANCE WITH PROJECT REQUIREMENTS AND ARE FUNCTIONING AS INTENDED, INCLUDING ELECTRICAL POWER, CONTROL AND INTERLOCK WIRING, DAMPER SEQUENCES, SMOKE DETECTORS, ETC.
- C. UPON COMPLETION OF THE INSTALLATION AND START-UP OF THE MECHANICAL EQUIPMENT, TEST, ADJUST AND BALANCE SYSTEM COMPONENTS TO OBTAIN OPTIMUM CONDITIONS IN EACH CONDITIONED SPACE IN THE BUILDING.
- D. BEFORE FINAL ACCEPTANCE IS MADE, FURNISH TO THE ARCHITECT THE FOLLOWING DATA:
1. SUMMARY OF MAIN SUPPLY, RETURN AND EXHAUST DUCT PILOT TUBE TRANSVERSES AND FAN SETTINGS.
2. AIR QUANTITIES AT EACH SUPPLY, RETURN, RELIEF AND EXHAUST AIR HANDLING DEVICE.
3. AIR PRESSURE READINGS ENTERING AND LEAVING EACH SUPPLY FAN AND EXHAUST FAN.
4. MOTOR CURRENT AND VOLTAGE READINGS AT EACH EQUIPMENT MOTOR.
5. TEST RESULTS SHALL BE RECORDED ON STANDARD FORMS CONFORMING TO AABC AND NEBB REQUIREMENTS. THE REPORT SHALL INCLUDE AIR FLOW SCHEMATIC DIAGRAMS INDICATING AND IDENTIFYING TEST LOCATIONS SUCH AS DUCT TRANSVERSE, OUTLET READINGS, PRESSURE READINGS AND TEMPERATURE READINGS, AND SHALL BE REFERENCED TO THE RECORDED DATA ON THE FORMS.
- E. MAKE AN INSPECTION IN THE BUILDING DURING THE OPPOSITE SEASON FROM THAT IN WHICH THE INITIAL ADJUSTMENTS WERE MADE, AND AT THAT TIME MAKE ANY NECESSARY MODIFICATIONS TO THE INITIAL ADJUSTMENTS REQUIRED TO PRODUCE OPTIMUM OPERATION OF THE SYSTEM COMPONENTS, TO PRODUCE THE PROPER CONDITIONS IN EACH SPACE.
- F. INSTRUCTION: THE CONTRACTOR SHALL INSTRUCT THE BUILDING OPERATING PERSONNEL IN THE CONSTRUCTION AND OPERATION OF ALL EQUIPMENT.

GUARANTEE

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY TENANT SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE TENANT.

MECHANICAL

TEMPORARY SERVICES

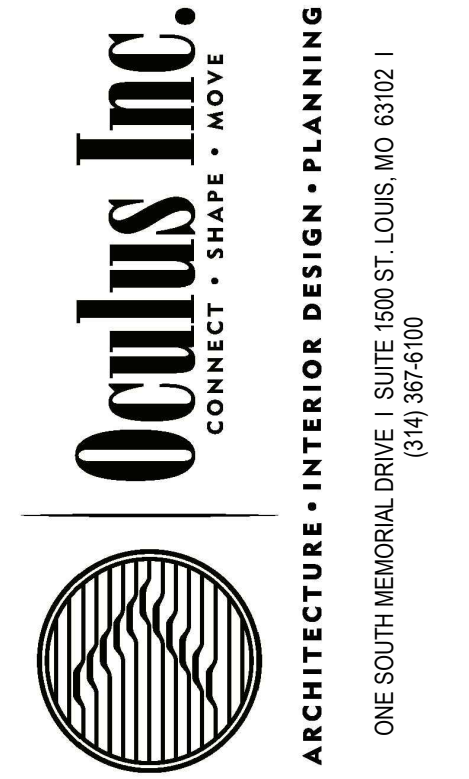
- THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SPECIFIC ITEMS OF TEMPORARY SERVICES:
- A. TELEPHONE - THE TENANT'S GENERAL CONTRACTOR SHALL INSTALL A JOB SITE TELEPHONE AND NOTIFY TENANT AS LISTED ON SHEET A-1 OF THE TELEPHONE NUMBER AND THE NAME OF THE SUPERINTENDENT.
- B. TEMPORARY WATER - WATER REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. WATER USED FOR HUMAN CONSUMPTION SHALL CONFORM TO REQUIREMENTS OF STATE AND LOCAL AUTHORITIES FOR POTABLE WATER.
- C. TEMPORARY ELECTRICITY - TEMPORARY ELECTRIC SERVICE REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR WHO SHALL FURNISH, INSTALL, AND MAINTAIN ALL TEMPORARY OVERHEAD CONSTRUCTION, METERS, DROPS, AND OTHER WIRING AND FITTINGS FOR BOTH LIGHT AND POWER AT LOCATIONS REQUIRED IN THE WORK AND SHALL BEAR THE COST OF MAKING THE SERVICE CONNECTIONS. BEFORE FINAL ACCEPTANCE, TEMPORARY ELECTRICAL SERVICE FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE REMOVED AND THE SERVICE CONNECTIONS SEVERED IN ACCEPTABLE MANNER.
- D. TEMPORARY HEAT - WHEN REQUIRED FOR PROPER INSTALLATION OR PROTECTION OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEATING UNITS AS APPROVED BY THE LANDLORD OR LOCAL AUTHORITY.
- E. COST OF LANDLORD PROVIDED UTILITY SERVICES - IF THE LANDLORD ELECTS TO PROVIDE TEMPORARY UTILITY SERVICES, THE CONTRACTOR WILL BE SO INFORMED BY THE TENANT. THE CONTRACTOR SHALL MAKE TO PAY THE COST OF SAID TEMPORARY CONSTRUCTION AND UTILITY SERVICES.

NOTE FOR TENANT GENERAL CONTRACTOR

IT IS THE RESPONSIBILITY OF THE TENANT'S GENERAL CONTRACTOR TO MAKE USE OF APPLICABLE NOTES AND SPECIFICATIONS LISTED ON THIS SHEET AS THEY MAY PERTAIN TO THE SPECIFIC JOB.

NOTE FOR GENERAL CONTRACTOR:

IT IS THE RESPONSIBILITY OF THE TENANT'S GENERAL CONTRACTOR TO MAKE USE OF APPLICABLE NOTES AND SPECIFICATIONS LISTED ON THIS SHEET AS THEY MAY PERTAIN TO THE SPECIFIC JOB.



CASE
Engineering Inc.

706 Menus Court
St. Louis, MO 63026
T 636.349.1600
F 636.349.1730
CERTIFICATE OF AUTHORITY NO. 001498



JERSEY MIKES - ST. JOSEPH
3609 N. BELT HIGHWAY
ST. JOSEPH, MO 64506

Description Date

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02/23/2023

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Client Approval

Mechanical
Specifications

Project # 43423-M011

Issue Date 02/23/2023

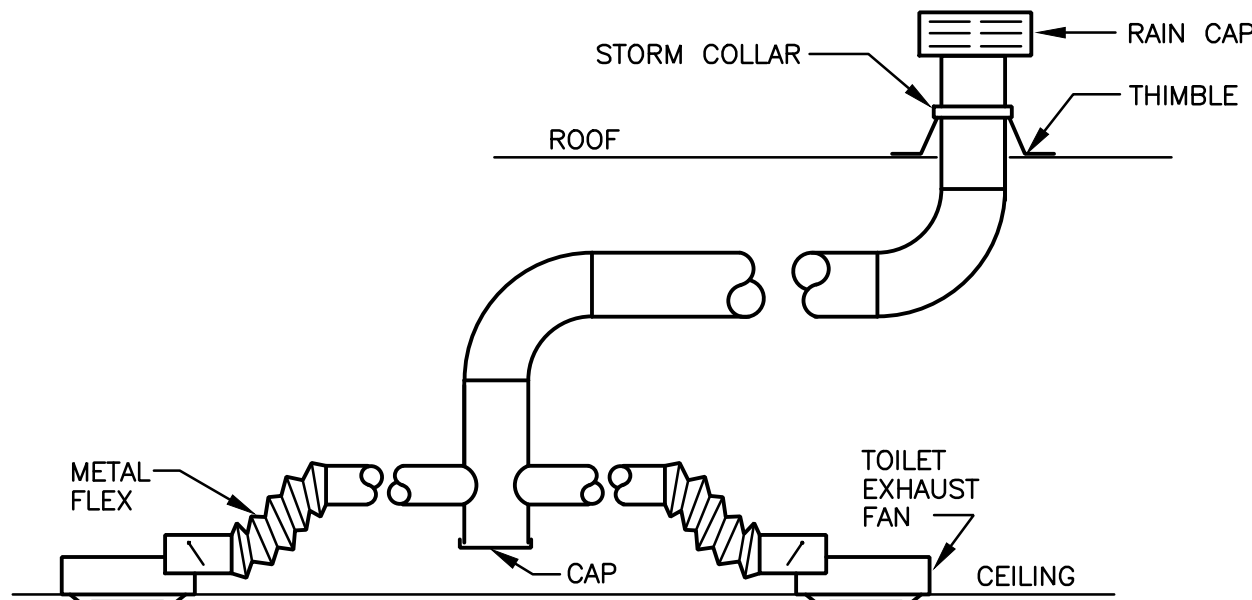
Scale As indicated

Drawn by GWC

Checked by MV

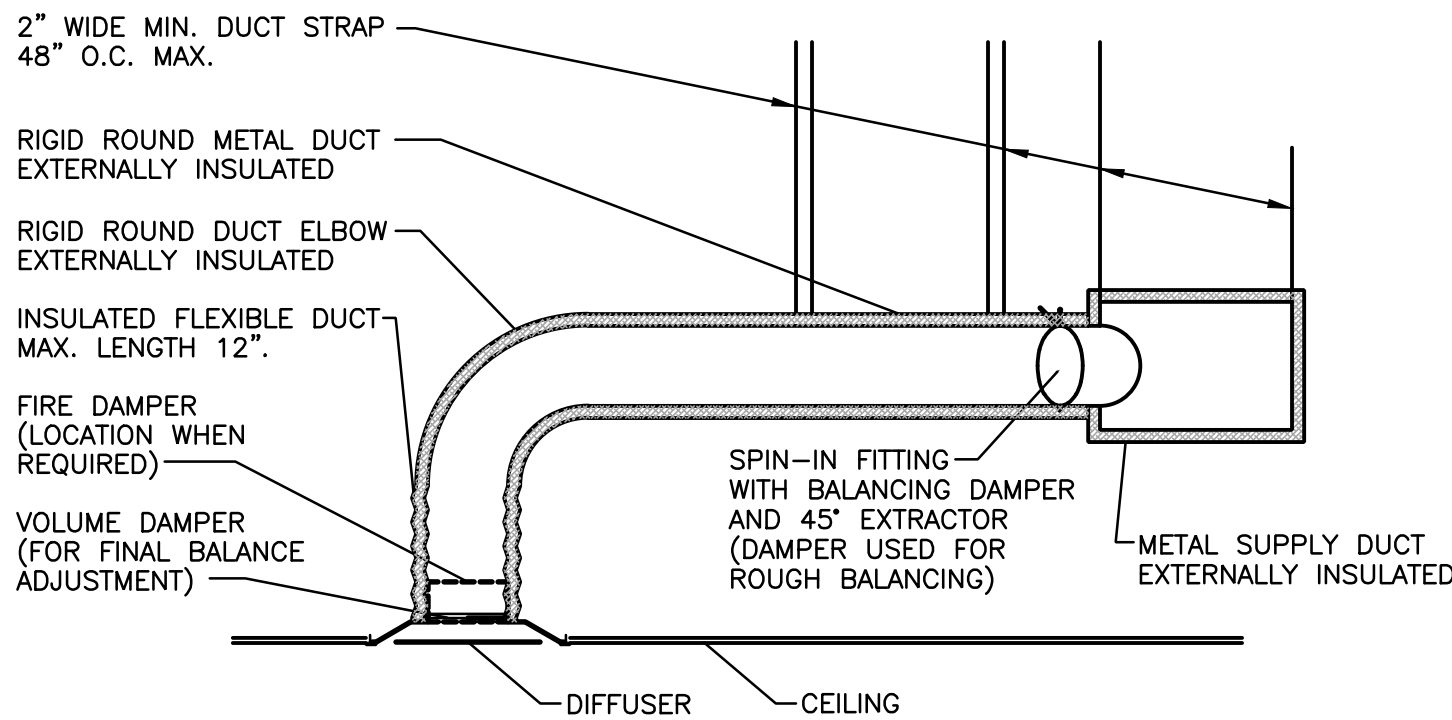
M1.2

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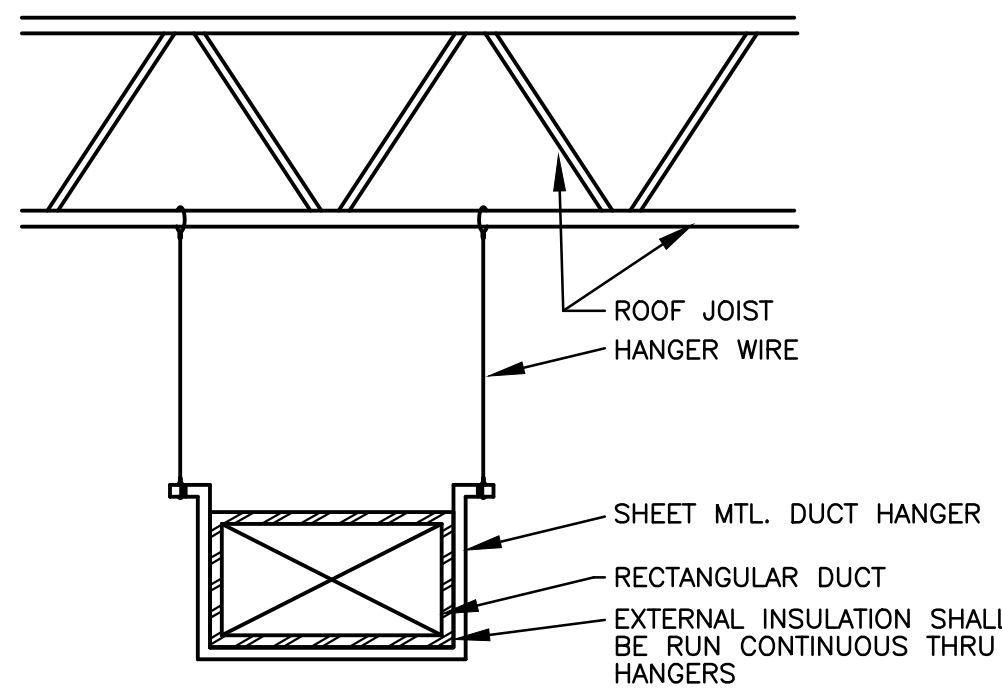
- NOTES:
1. SEE FLOOR PLAN FOR DUCT DIMENSIONS.
2. ELECTRICIAN TO WIRE FANS IN PARALLEL WITH RESTROOM LIGHT FIXTURES.

6 TOILET FAN EXHAUST DETAIL
SCALE: NONE

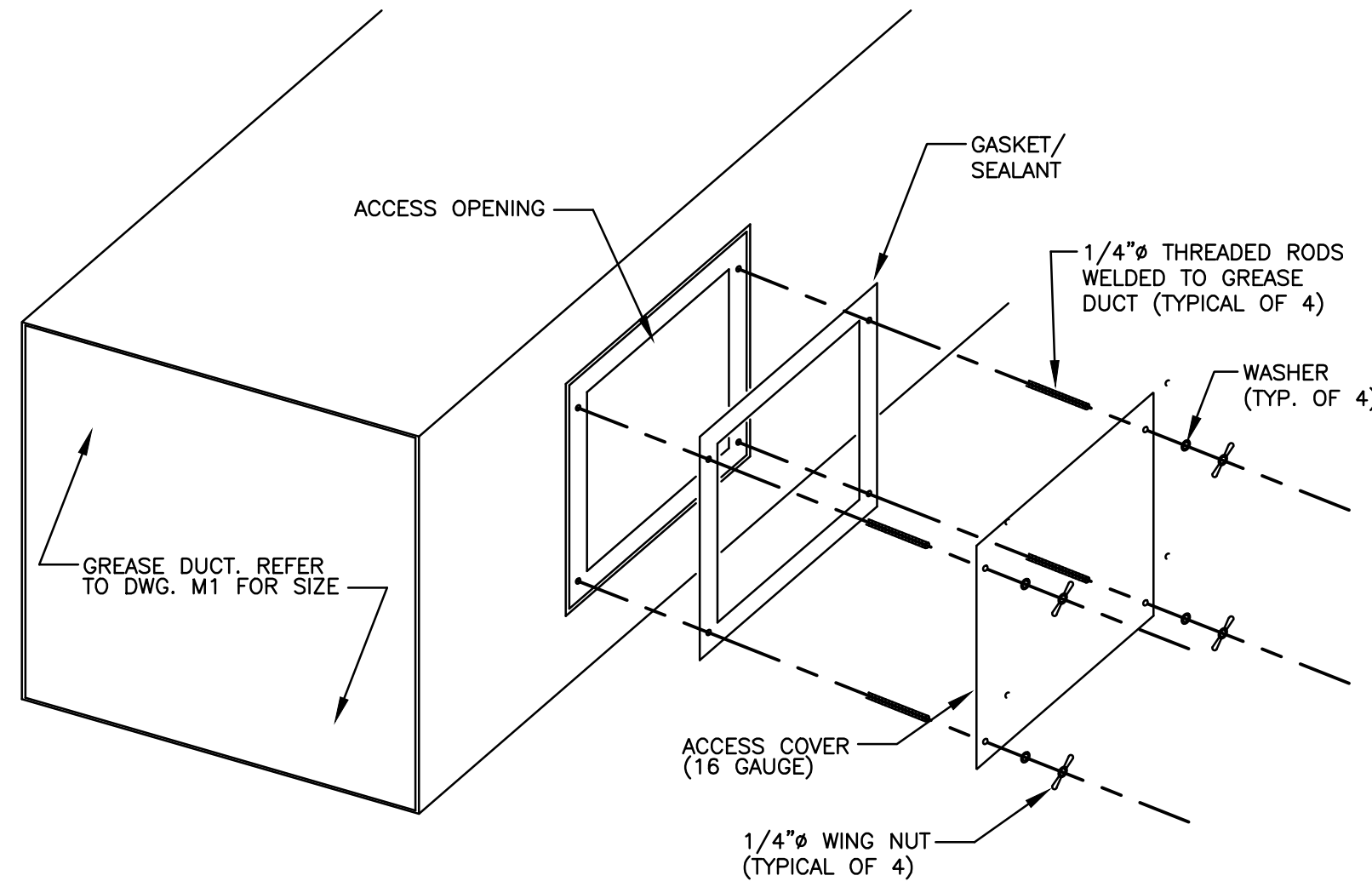


* REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR COMPONENT AND DEVICE SPECIFICATIONS.

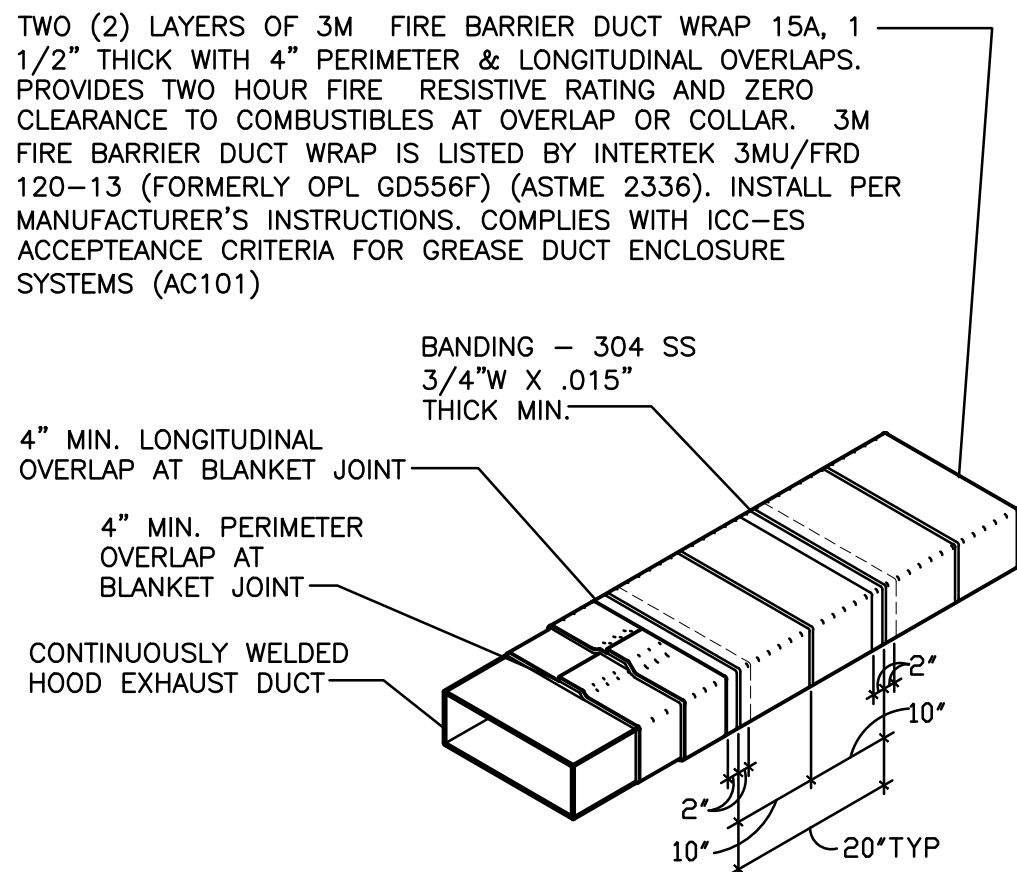
4 HVAC DUCTWORK DETAIL
SCALE: NONE



5 DUCT HANGER DETAIL
SCALE: NONE

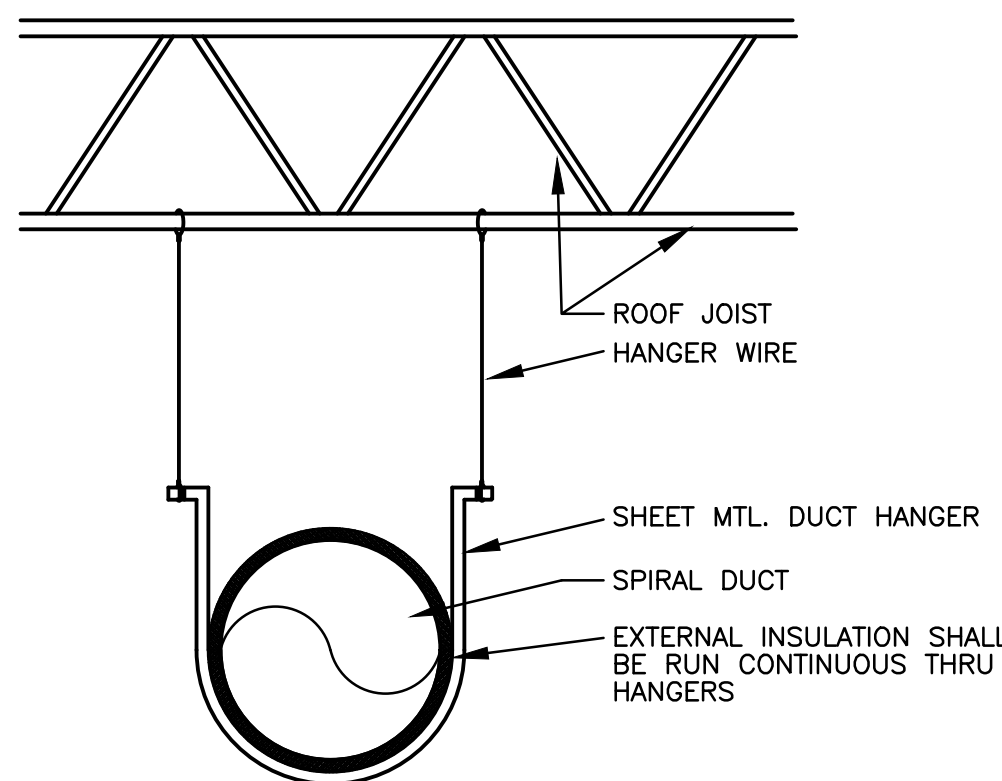


1 GREASE DUCT ACCESS PANEL DETAIL
SCALE: NONE

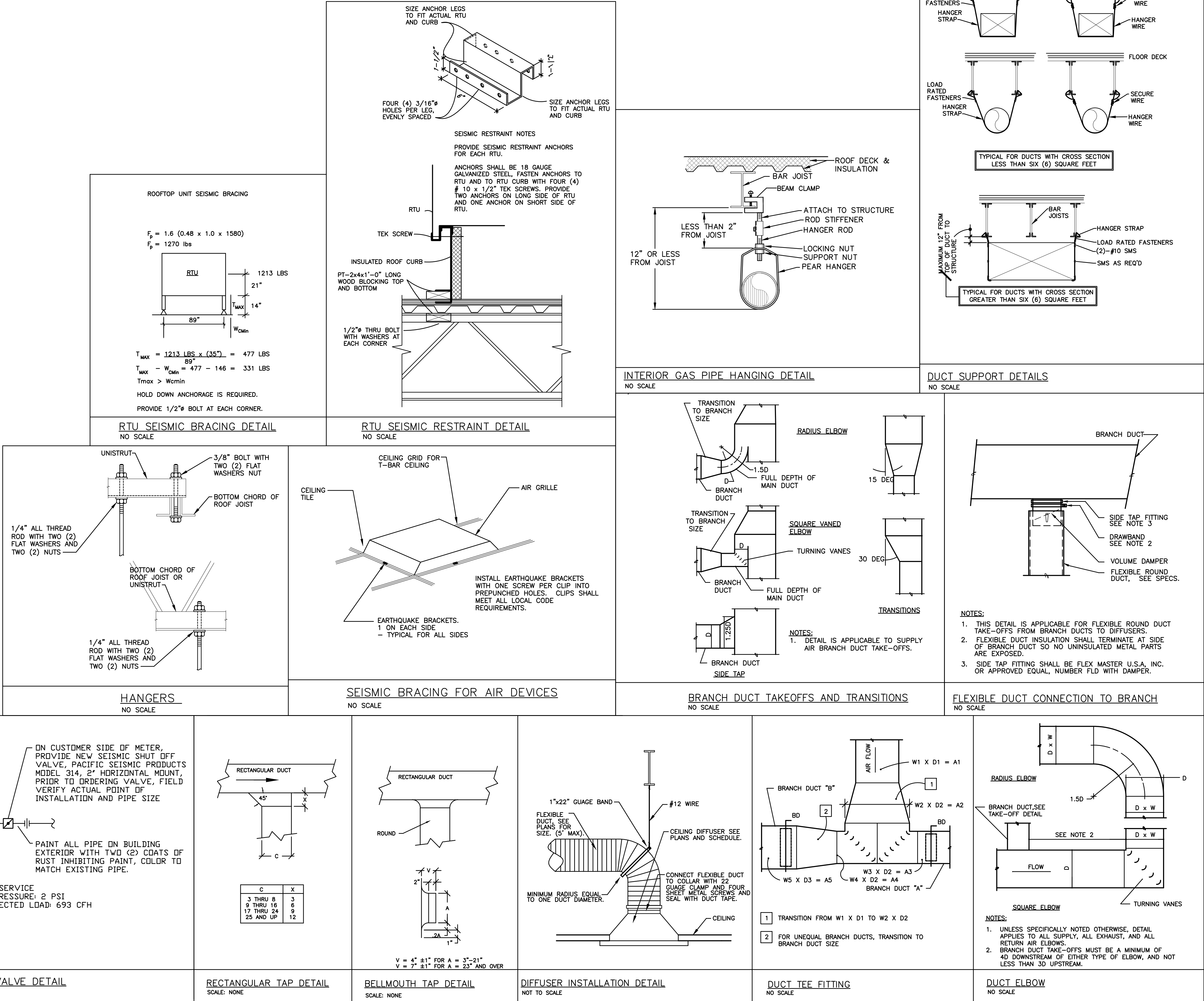


- NOTES:
1. BANDING REQUIREMENTS: USE 304 STAINLESS STEEL BANDS A MAXIMUM 2" FROM BLANKET EDGE AND SPACED A MAXIMUM OF 10" ON CENTER.
2. WRAP GREASE DUCT CONTINUOUS AS SHOWN FROM CONNECTION AT FAN THROUGH CURB AND EXTEND 18" MIN. BELOW ROOF DECK.
3. FOR HORIZONTAL RUNS OF EXHAUST DUCTS PROVIDE TYPICAL TRAPEZE SUPPORT SYSTEM WITH 1/2" HANGER RODS A MAXIMUM OF 6" FROM INSULATION EDGE. TRAPEZE SUPPORTS SHALL BE SPACED A MAXIMUM OF 60" ON CENTER FROM CENTERLINE OF VERTICAL EXHAUST DUCT.
4. SLOPE HORIZONTAL EXHAUST DUCT RUNS A MINIMUM OF 1/4" PER FOOT (2% SLOPE) TOWARDS EXHAUST HOOD.
5. PROVIDE INSULATED ACCESS DOORS OR PANELS FOR CLEANING AND INSPECTION OF DUCT. PROVIDE AN APPROVED SIGN ON EACH ACCESS DOOR OR PANEL WHICH READS "ACCESS PANEL - DO NOT OBSTRUCT".

2 GREASE DUCT DETAIL
SCALE: NONE



3 ROUND DUCT HANGER DETAIL
SCALE: NONE



CANOPY GRIDDLE HOOD (RIGHT UTILITY CABINET)

HOOD INFORMATION

MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S)							TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.	
			TOTAL EXH. CFM	WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.	S.P.		END TO END	ROW
5424 ND-2-PSP-F	5' 0"	600 Deg.	1000			4"	10"	1000	1833	-0.363"	750	430 SS Where Exposed	ALONE

VERIFY CEILING HEIGHT

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

HOOD INFORMATION

FILTER(S)					LIGHT(S)			UTILITY CABINET(S)						FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTRICAL	SWITCHES		
										TYPE	SIZE	MODEL #	QUANTITY 1 LIGHT		
SS BAFFLE WITH HANDLES	3	16"	16"	30%	3	L55 SERIES E26	ND	RIGHT	12"x54"x24"	TANK FS	4.0	SC-110110MA	1 FAN	YES	660 LBS

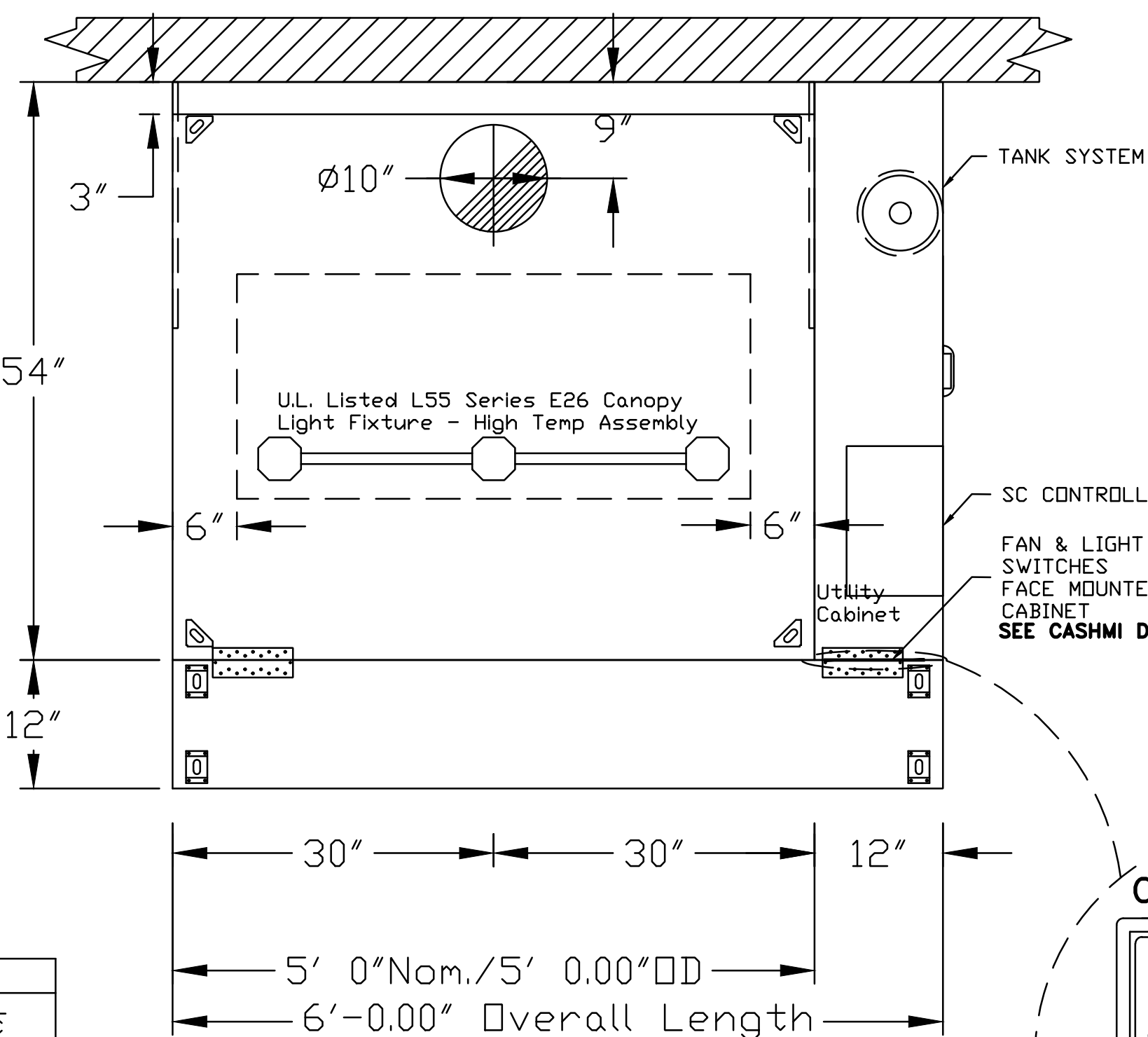
HOOD OPTIONS

OPTION			
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:

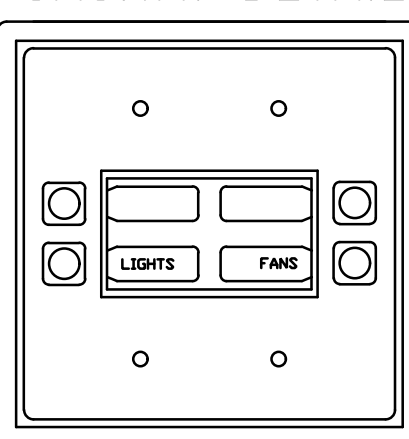
EXHAUST FAN IS SIZED FOR A MAXIMUM OF (3) 90 DEGREE RADIUS ELBOWS AND 25 FT OF STRAIGHT DUCTWORK. PLEASE CONSULT CAPTIVEAIRE IF DUCTWORK EXCEEDS THE ABOVE REQUIREMENTS.

L55 SERIES E26 CANOPY LIGHT FIXTURE - HIGH TEMP ASSEMBLY, INCLUDES CLEAR THERMAL AND SHOCK RESISTANT GLOBE (L55 FIXTURE).



PLAN VIEW - GRIDDLE HOOD
5' 0.00" LONG 5424ND-2-PSP-F

CASHMI DETAIL

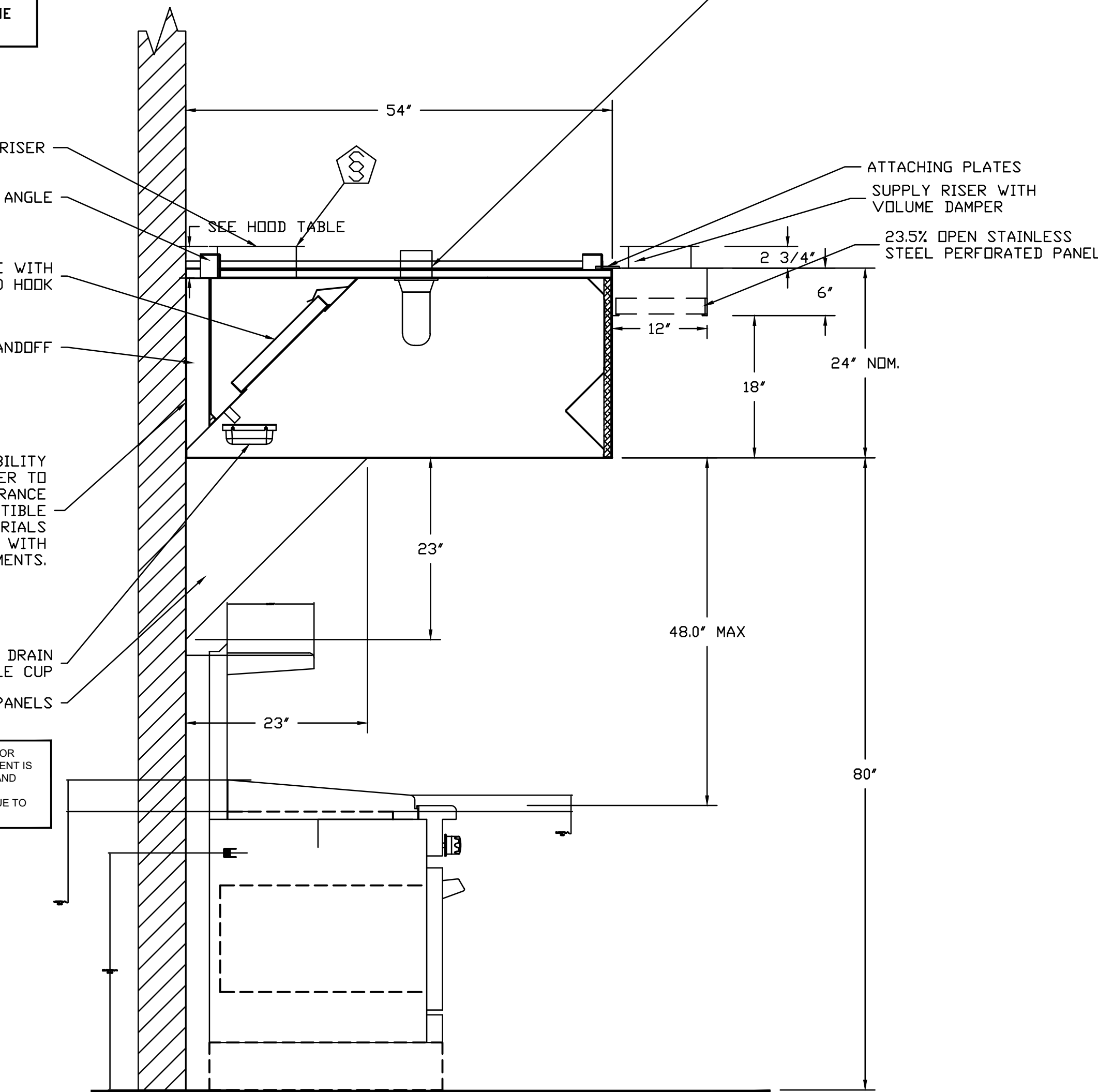


COOKING EQUIPMENT DRAWING FOR REFERENCE ONLY. COOKING EQUIPMENT IS NOT PROVIDED BY CAPTIVEAIRE AND DIMENSIONS MAY VARY DUE TO FIELD CONDITIONS

IT IS THE RESPONSIBILITY OF THE ARCHITECT/OWNER TO ENSURE THAT THE HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.

EXHAUST RISER
HANGING ANGLE
16" SS BAFFLE WITH HANDLES AND HOOK
3" INTERNAL STANDOFF

SC CONTROLLER
FAN & LIGHT PUSH BUTTON SWITCHES
FACE MOUNTED ON UTILITY CABINET
SEE CASHMI DETAIL
GREASE DRAIN WITH REMOVABLE CUP
LEFT AND RIGHT QUARTER END PANELS



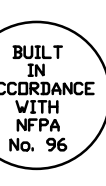
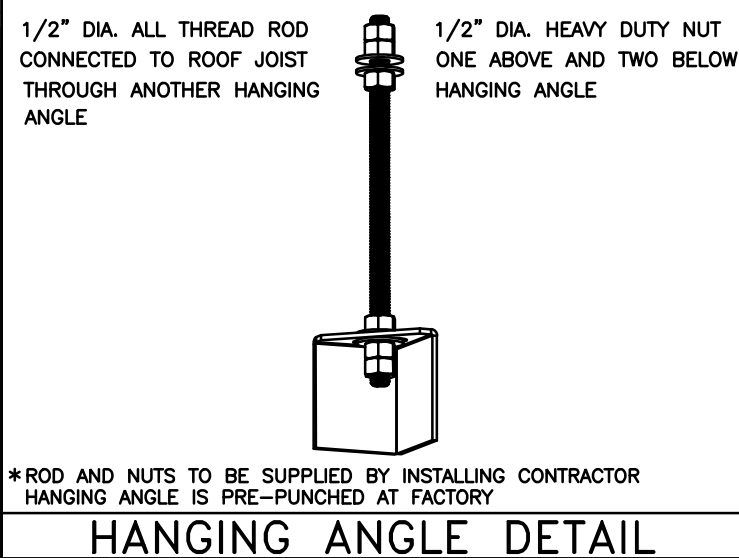
SECTION VIEW - MODEL 5424ND-2-PSP-F
HOOD - #1

HVAC DISTRIBUTION NOTE

IT IS RECOMMENDED NOT TO INSTALL HIGH VELOCITY DIFFUSERS OR HVAC RETURNS WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

ETL LISTING DESCRIPTION BLOCK

THE CAPTIVEAIRE 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	St. Joseph, MO
DATE	2/9/23
DWG #	1
REV.	
JOB #	5851414
DRAWN BY	AS-32
SCALE	N/a

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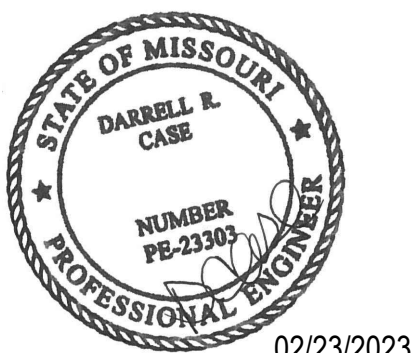
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CERTIFICATE OF AUTHORITY NO. 001498



JERSEY MIKES - ST. JOSEPH

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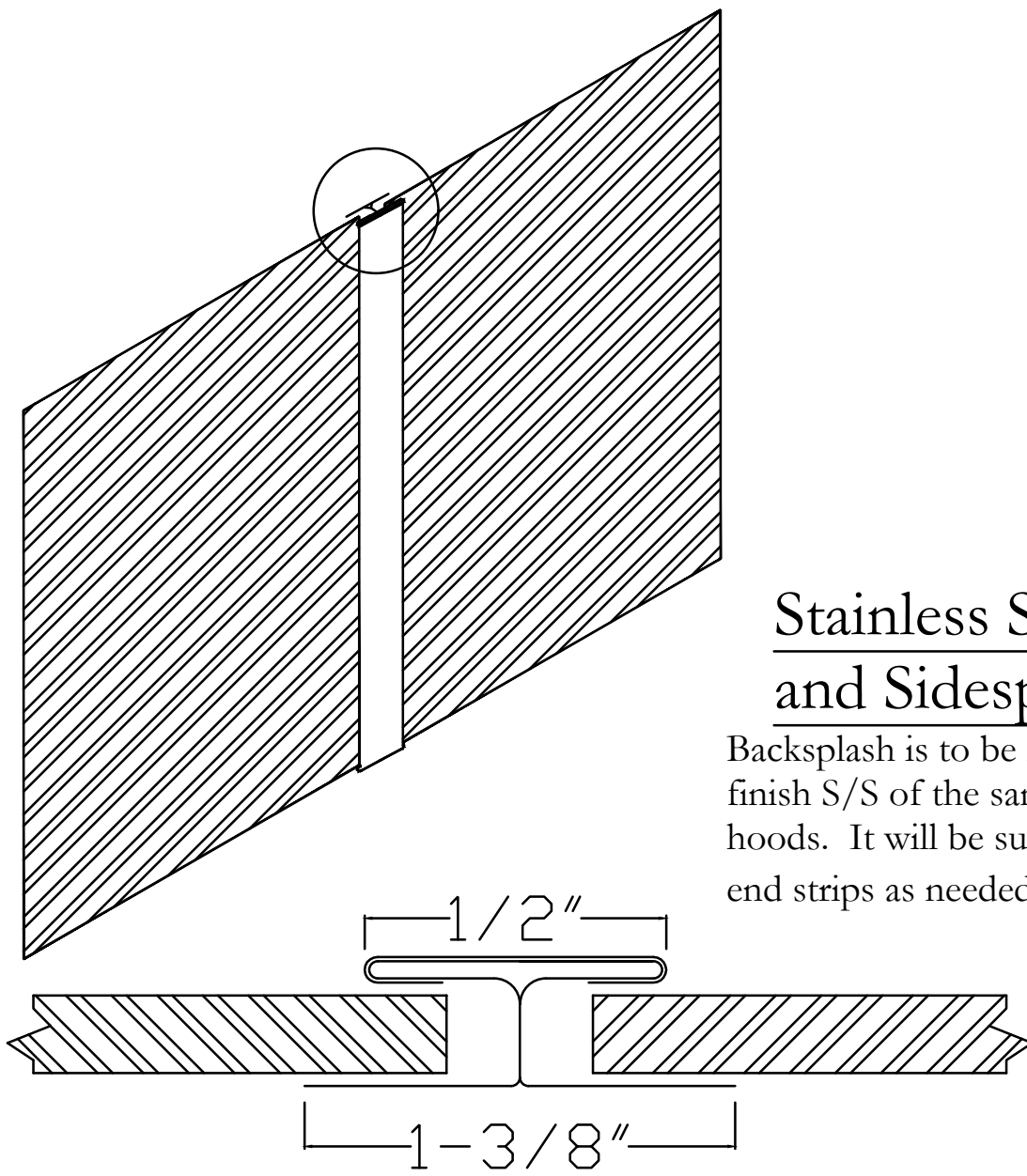
Client Approval

Hood
Drawing

Project # 43423-M011
Issue Date 02/23/2023
Scale As indicated
Drawn by GWC
Checked by MV

M3.1

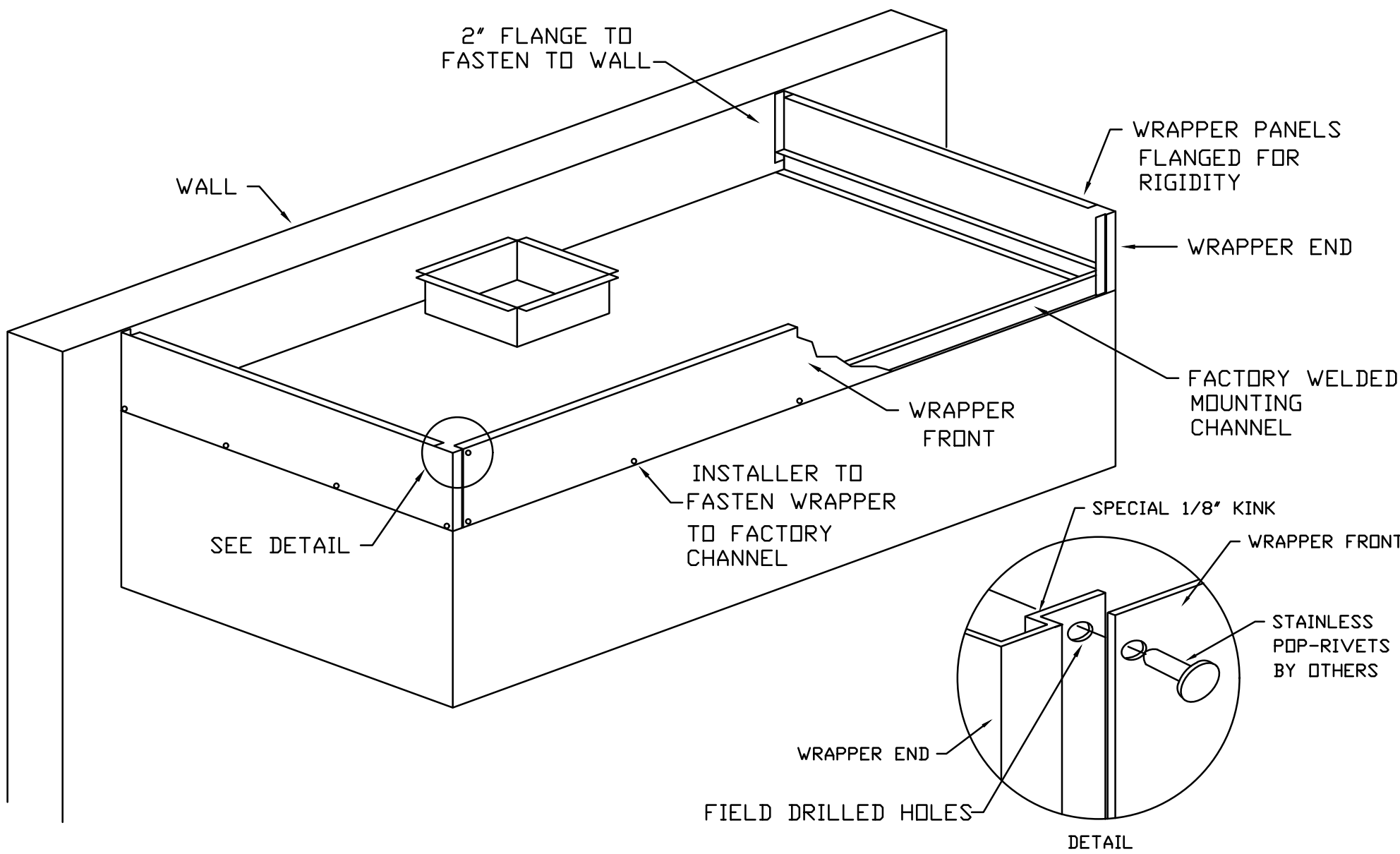
FIRE SYSTEM/INSTALLATION DETAILS



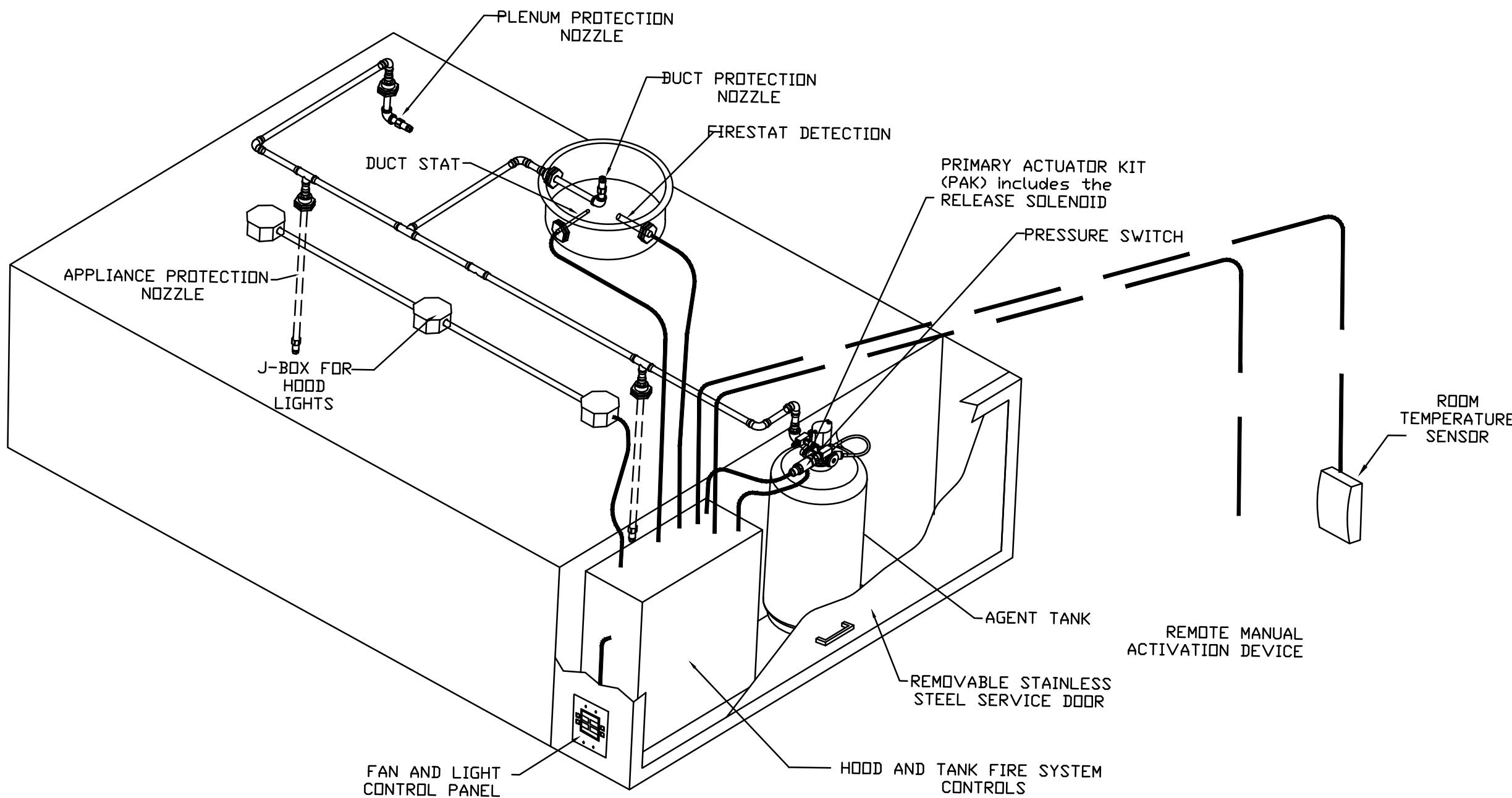
Stainless Steel Backsplash and Sidesplash

Backsplash is to be manufactured from #3 or #4 finish S/S of the same guage and material as the hoods. It will be supplied with Batton strips and end strips as needed to close all seams and edges.

Batton Strip Detail



FIELD WRAPPER



TYPICAL HOOD and TANK FIRE SYSTEM LAYOUT

THIS DETAIL IS GENERIC AND IS NOT INTENDED TO COVER ALL POSSIBLE, ACCEPTABLE SCENARIOS. REFER TO PROJECT DRAWINGS/SCHEMATICS FOR DETAILS.

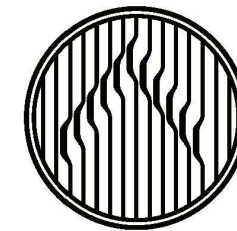
VERIFY GAS VALVE SIZE



CAPTIVE AIR

JOB Jersey Mike's Subs	
LOCATION St. Joseph, MO	
DATE 2/9/23	JOB # 5851414
DWG # 1	DRAWN BY AS-32
REV.	SCALE N/a

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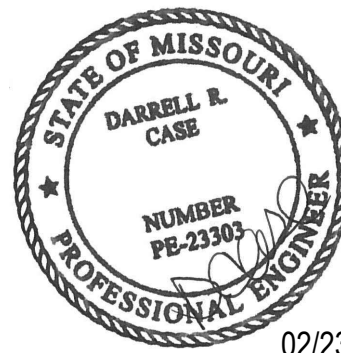


JERSEY MIKES - ST. JOSEPH

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ST. JOSEPH, MO 64506

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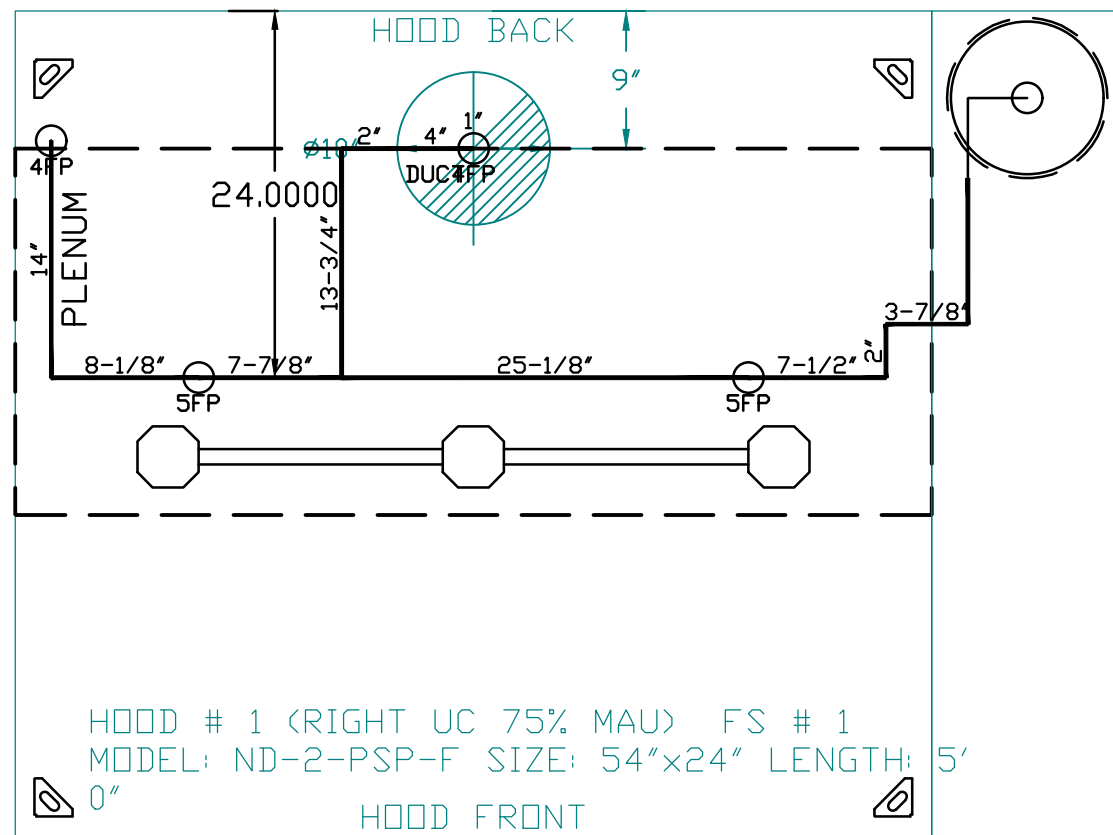
Client Approval

Hood
Drawing

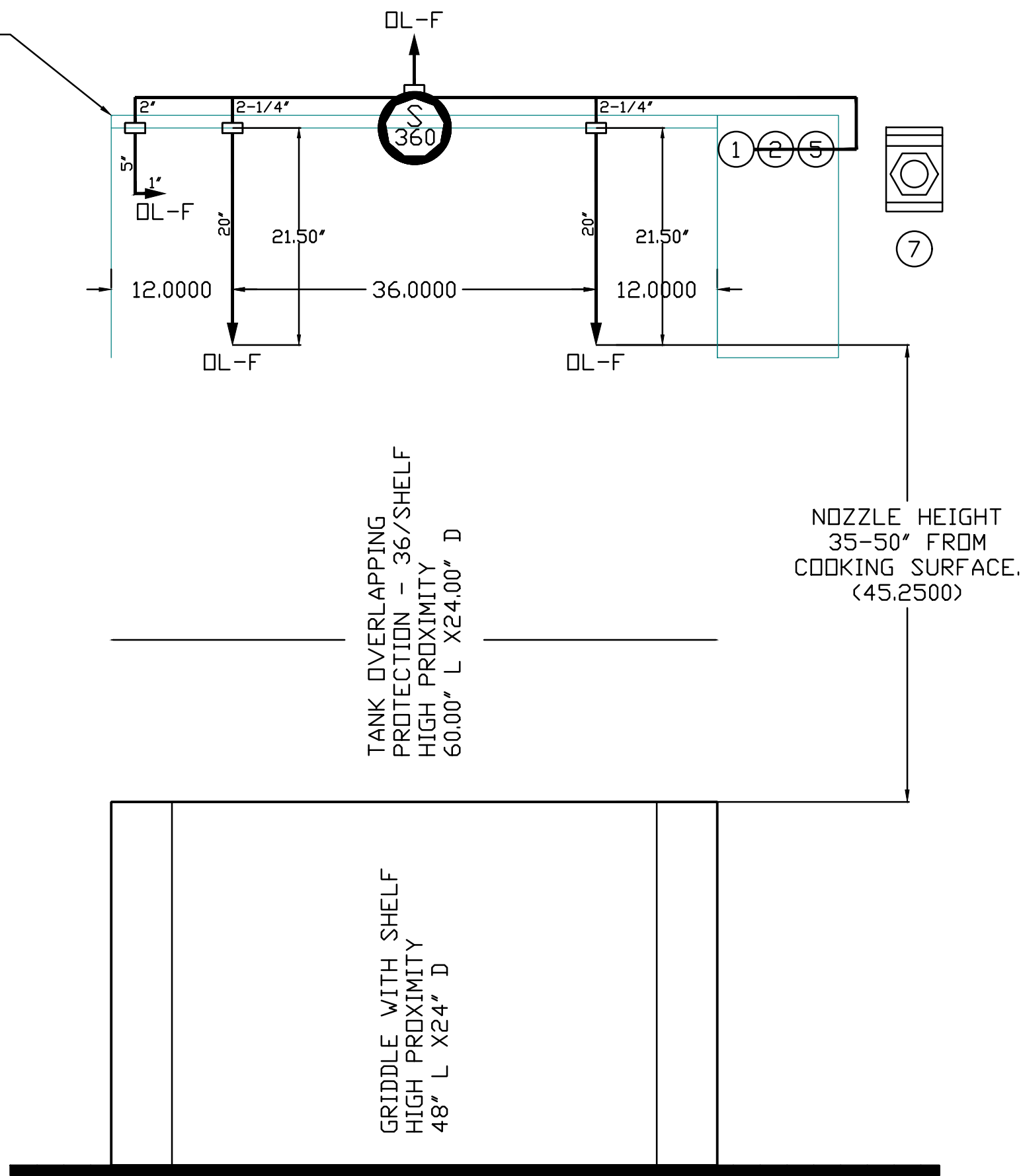
Project # 43423-M011
Issue Date 02/23/2023
Scale As indicated
Drawn by GWC
Checked by MV

M3.2

FIRE SYSTEM/INSTALLATION DETAILS



FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.



SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS

NOTES

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED 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.

- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

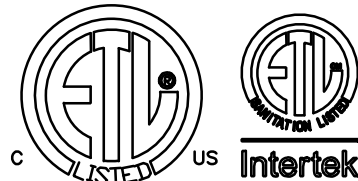
JOB NAME: JERSEY MIKE'S SUBS

SYSTEM SIZE: TANK-SP-1 TOTAL FP REQUIRED: 18.
HOOD # 1 5' 0.00" LONG x 54" WIDE x 24" HIGH.
RISER # 1 SIZE: 10" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

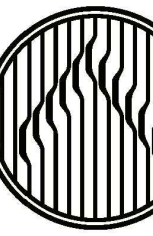
LEGEND - FIRE CABINET TANK SYSTEM

- 1 4 GALLON TANK.
- 2 PRIMARY ACTUATOR RELEASE.
- 3 SECONDARY ACTUATOR RELEASE.
- 4 PRESSURE SUPERVISION SWITCH.
- 5 PRIMARY HOSE ASSEMBLY.
- 6 SECONDARY HOSE ASSEMBLY.
- 7 REMOTE MANUAL ACTUATION DEVICE.



JOB Jersey Mike's Subs	
LOCATION St. Joseph, MO	
DATE 2/9/23	JOB # 5851414
DWG # 1	DRAWN BY AS-32
REV.	SCALE N/a

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CERTIFICATE OF AUTHORITY NO. 001498



JERSEY MIKES - ST. JOSEPH

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ST. JOSEPH, MO 64506

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Client Approval

Hood
Drawing

Project # 43423-MO11

Issue Date 02/23/2023

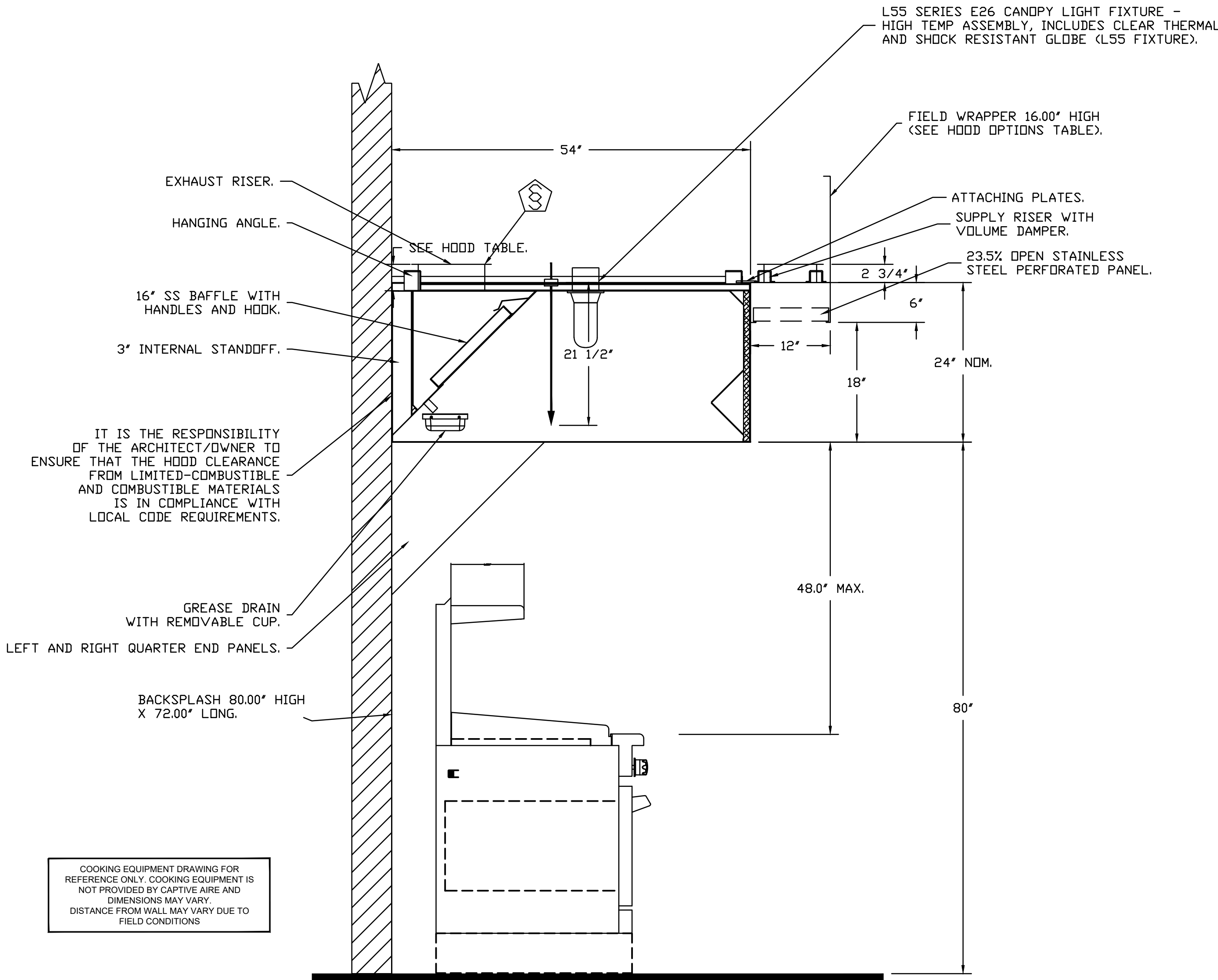
Scale As indicated

Drawn by GWC

Checked by MV

M3.3

FIRE SYSTEM/INSTALLATION DETAILS



SECTION VIEW - MODEL 5424ND-2-PSP-F
HOOD - #1

   	JOB Jersey Mike's Subs	
	LOCATION St. Joseph, MO	
	DATE 2/9/23	JOB # 5851414
	DWG # 1	DRAWN BY AS-32
	REV.	SCALE N/A



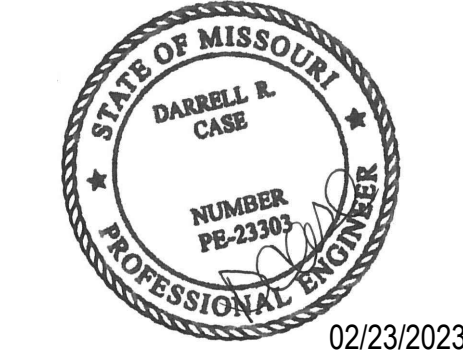
JERSEY MIKES - ST. JOSEPH

3609 N. BELT HIGHWAY
ST. JOSEPH, MO 64506

Description	Date
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Hood
Drawing

Project # 43423-M011

Issue Date 02/23/2023

Scale As indicated

Drawn by GWC

Checked by MV

GRIDDLE FAN (CANOPY HOOD)

EXHAUST FAN INFORMATION

FAN UNIT MODEL #	MODEL	CFM	ESP.	RPM	H.P.	#	VOLT	FLA	WEIGHT (LBS.)	SDNES
DUS0HFA	DUS0HFA	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
DUS0HFA	38 LBS	Curb	19.500"W x 19.500"L x 26.000"H Vented Hinged

VERIFY ROOF PITCH

PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH
EXAMPLE: 7/12 PITCH = 30° SLOPE

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:

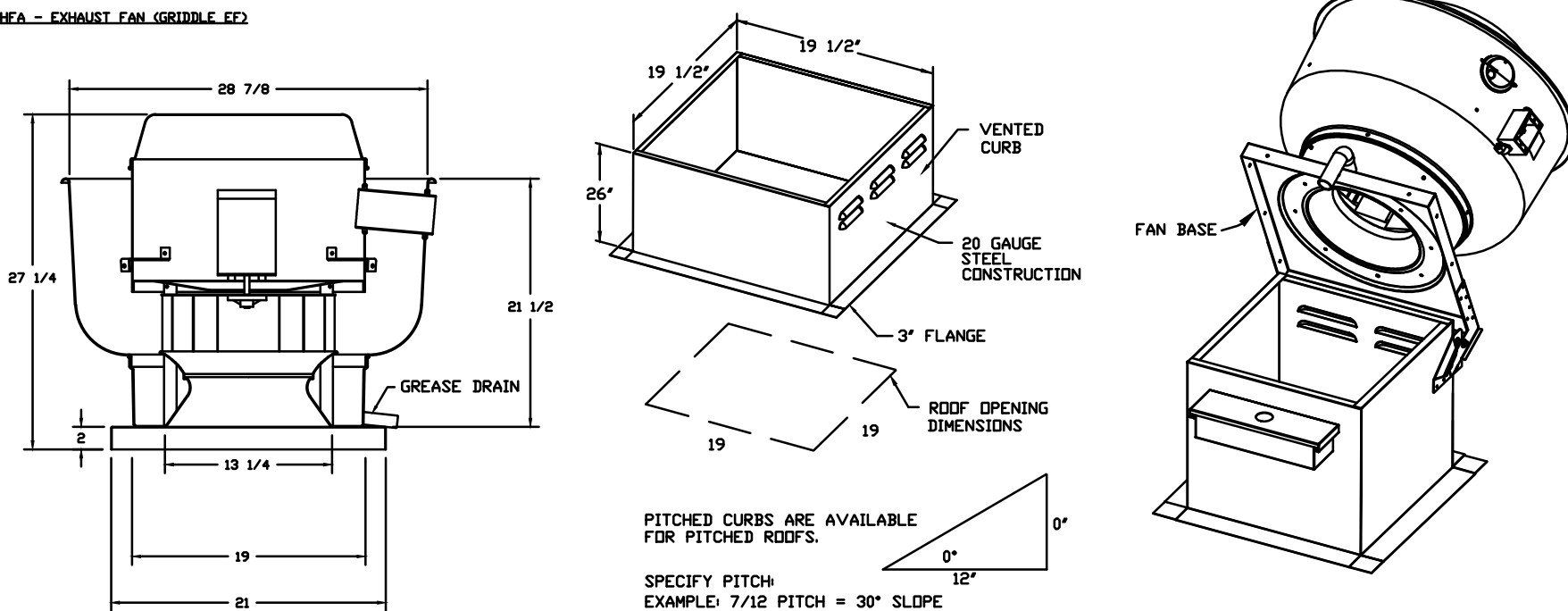
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

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 DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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

OPTIONS
GREASE BOX

FAN B1 DUS0HFA - EXHAUST FAN GRIDDLE FAN



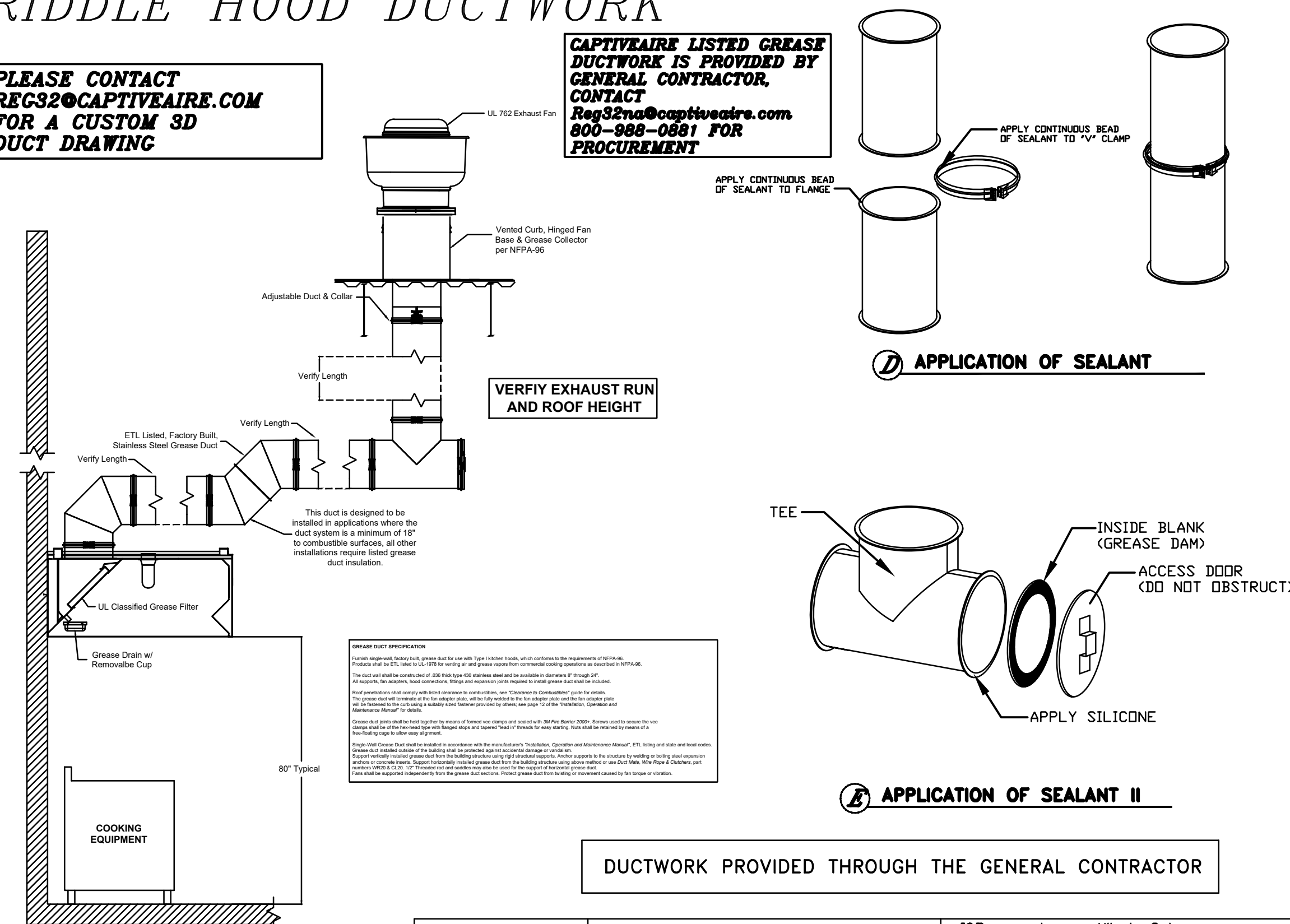
CAPTIVEAIRE

JOB	Jersey Mike's Subs
LOCATION	St. Joseph, MO
DATE	2/9/23
DWG #	1
REV.	
JOB #	5851414
DRAWN BY	AS-32
SCALE	N/A

GRIDDLE HOOD DUCTWORK

PLEASE CONTACT
REG32@CAPTIVEAIRE.COM
FOR A CUSTOM 3D
DUCT DRAWING

CAPTIVEAIRE LISTED GREASE DUCTWORK IS PROVIDED BY GENERAL CONTRACTOR. CONTACT REG32na@captiveaire.com 800-988-0881 FOR PROCUREMENT



CAPTIVEAIRE

JOB	Jersey Mike's Subs
LOCATION	St. Joseph, MO
DATE	2/9/23
DWG #	1
REV.	
JOB #	5851414
DRAWN BY	AS-32
SCALE	N/A

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'S 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	<input type="checkbox"/>
Approved with NO Exception Taken	<input type="checkbox"/>
Revised and Resubmit	<input type="checkbox"/>
SIGNATURE	
Your Title	Date

CLEARANCE TO COMBUSTIBLES			
DIAMETER	COMBUSTIBLES	LIMITED COMBUSTIBLES	
		COMBUSTIBLES	NON COMBUSTIBLES
1/2"	1/2"	1/2"	1/2"
3/4"	3/4"	3/4"	3/4"
1"	1"	1"	1"
1 1/4"	1 1/4"	1 1/4"	1 1/4"
1 1/2"	1 1/2"	1 1/2"	1 1/2"
2"	2"	2"	2"
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3"	3"	3"	3"
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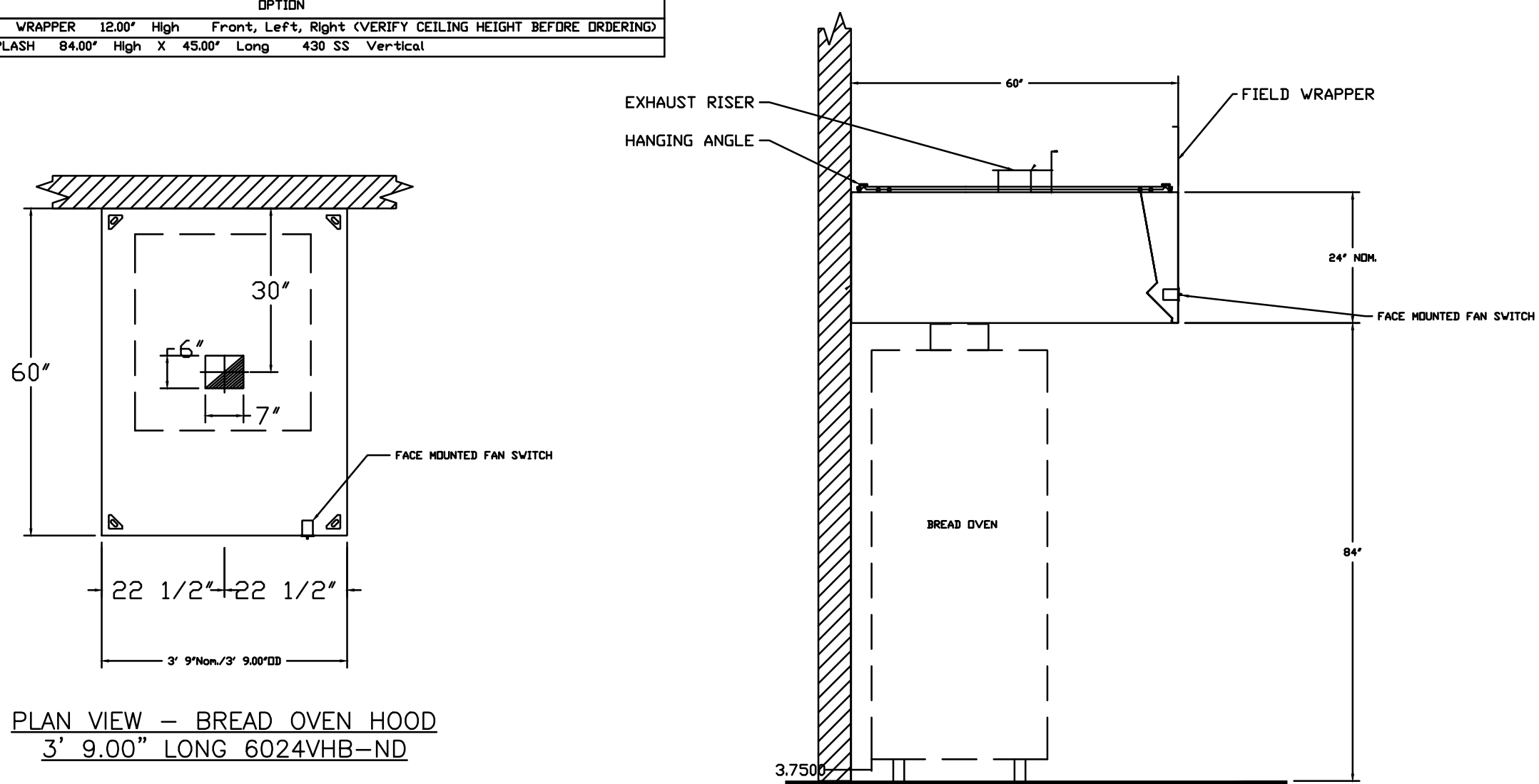
BREAD OVEN HOOD (BACK WALL)

MODEL	LENGTH	MAX. COOKING TOP	EXHAUST FLOW	HOOD CONSTRUCTION	HOOD CONFINEMENT	SWITCHES	HOOD HANGING WEIGHT
6024 VHB-ND	3' 9.00"	700 Deg.	375 CFM	430 SS 100%	ALONE	1 FAN FRONT RIGHT FACE	214 LBS

HOOD OPTIONS	OPTION
FIELD WRAPPER	12.00" High Front, Left, Right
BACKSLASH	84.00" High X 43.00" Long 430 SS Vertical

VERIFY CEILING HEIGHT

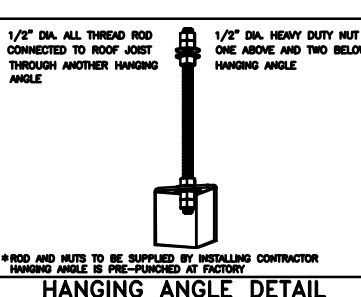
Height required to verify that the hood will fit and to size the enclosure panels



PLAN VIEW - BREAD OVEN HOOD
3' 9.00\"/>

SECTION VIEW - MODEL 6024VHB-ND
BREAD OVEN HOOD

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.



HANGING ANGLE DETAIL

ETL LISTING DESCRIPTION BLOCK
THE CAPTIVE AIR 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



JOB	Jersey Mike's Subs
LOCATION	St. Joseph, MO
DATE	2/9/23
DWG #	1
REV.	
JOB #	5851414
DRAWN BY	AS-32
SCALE	N/A

BREAD OVEN FAN

EXHAUST FAN INFORMATION

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	#	VOLT	FLA	WEIGHT (LBS.)	SDNES
1		DUI2HFA	375	0.500	1404	0.180	0.1220	1	115	1.9	54	7.9

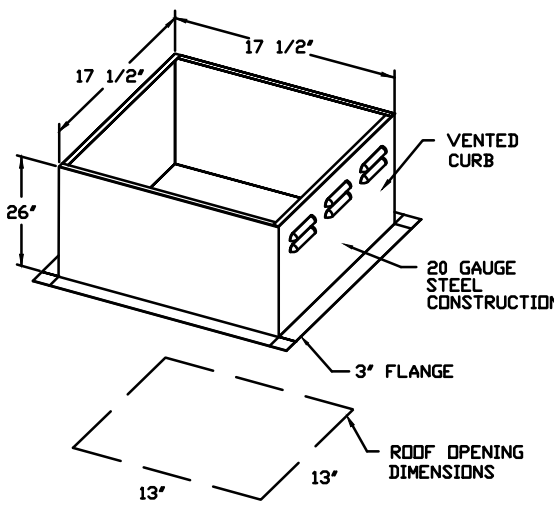
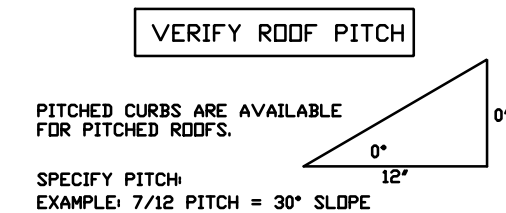
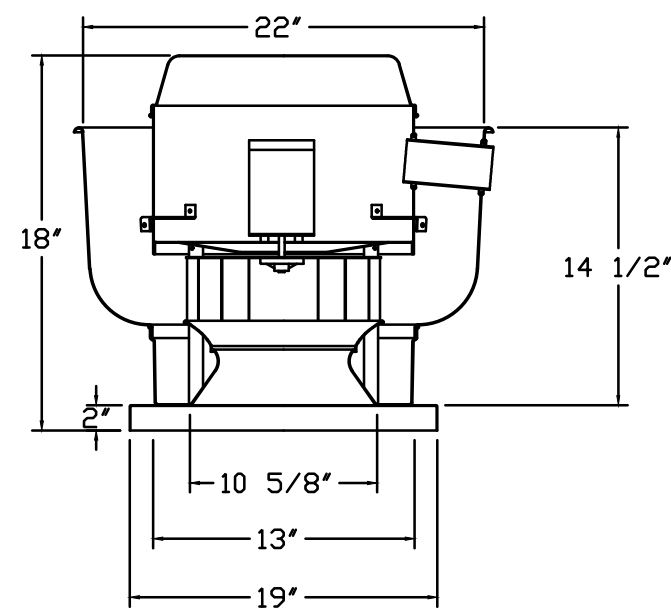
FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - 1 1/2\"/>

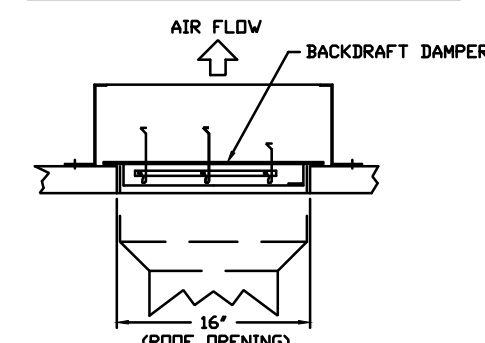
CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	31 LBS	Curb	17.500\"/>

FAN #1 DUI2HFA - EXHAUST FAN



BACKDRAFT DAMPER INSTALLATION



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- UL-710
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)

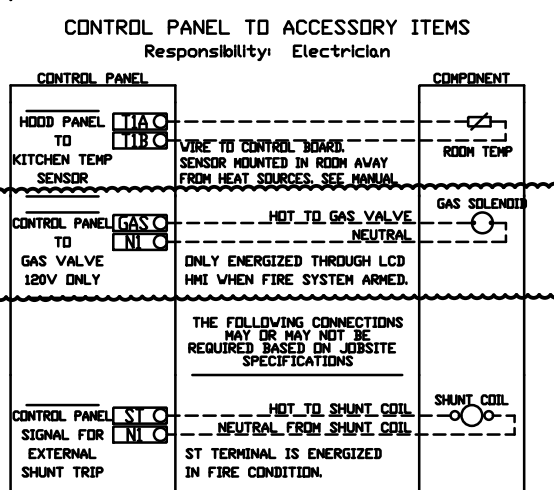
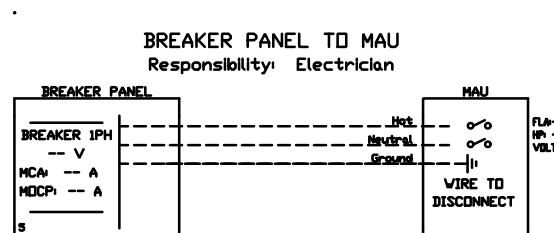
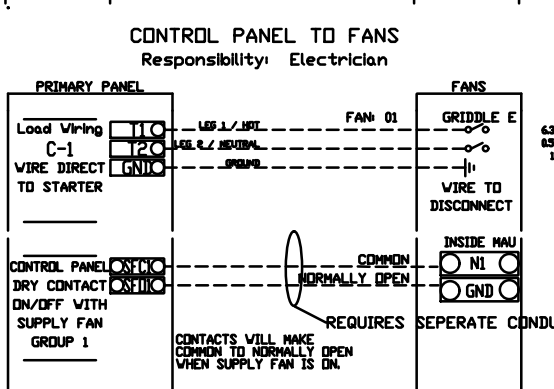
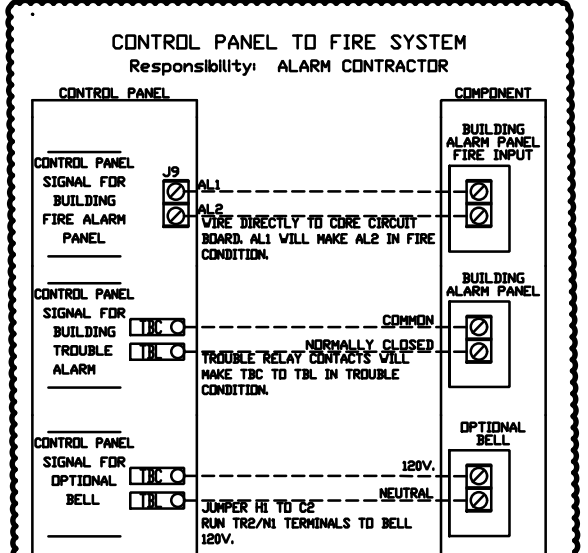
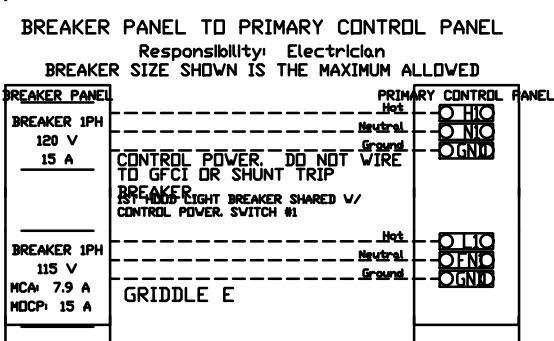
NORMAL TEMPERATURE TEST

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

ABNORMAL FLARE-UP TEST

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

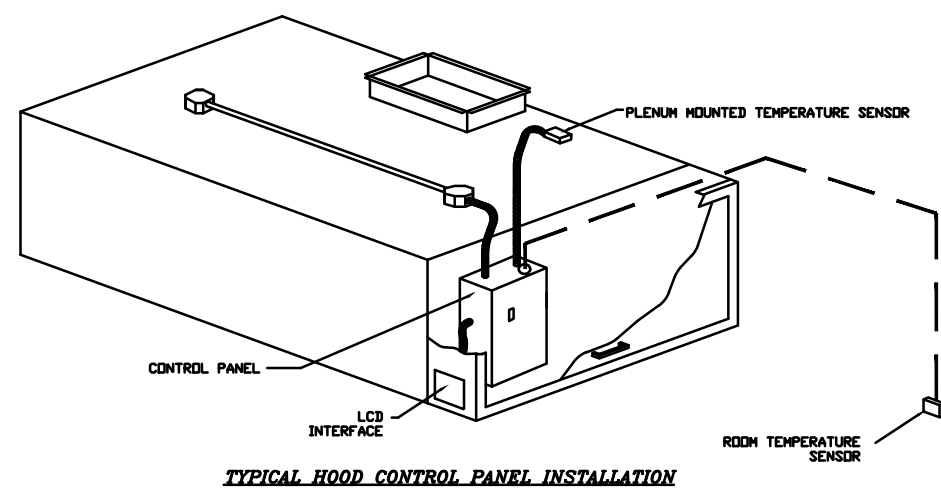
PACKAGE #	LOCATION	SWITCHES	OPTION	FANS CONTROLLED
SC-110199A	Utility Cabinet Right	03 - Utility Cabinet Right	Smart Controls Thermostatic Control	FAN TAG TYPE T HP VOLT FLA
		Hood # 2		GRIDDLE EF Exhaust 1 6500 115 B4
				HEAT DOWN Supply 1 1800 115 B4



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 6 fan zones have the option to be ordered with 6 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 FF SERIES

Once all power, light and temperature sensor circuits are properly latched on the control terminal block, the LCD interface will be illuminated. 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.

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.

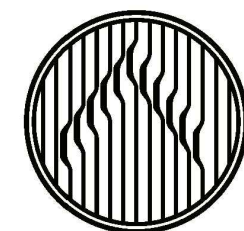
Automatic activation
Turn on cooking appliances. Exhaust fan(s) (and supply fan(s), if present) will automatically energize when duct temperature exceeds pre-set differential with respect to ambient room temperature (factory setpoint differential = 10 degrees F, adjustable). At the end of the day, after 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 UNTERLOCKED WITH HOOD CONTROL PANEL. BY ELECTRICIAN, EXHAUST FAN(S) TO REMAIN RUNNING, SUPPLY FAN(S) TO BE-ENERGIZE, LIGHTING CIRCUIT(S) TO BE-ENERGIZE, GAS/ELECTRIC TO SHUT OFF. MICROSWITCH MUST BE RESET PRIOR TO RESUMPTION OF NORMAL OPERATION.



JOB	Jersey Mike's Subs
LOCATION	St. Joseph, MO
DATE	2/9/23
DWG #	1
REV.	
JOB #	5851414
DRAWN BY	AS-32
SCALE	N/A

Oculus Inc.
CONNECT • SHAKE • MOVE



ARCHITECTURE • INTERIOR DESIGN • PLANNING
ONE SOUTH MEMORIAL DRIVE • SUITE 1500 ST. LOUIS, MO 63102
(314) 367-6100

CASE
Engineering Inc.

796 Menus Court
St. Louis, MO 63126
T 636.349.1600
F 636.349.1730
CERTIFICATE OF AUTHORITY NO. 001498



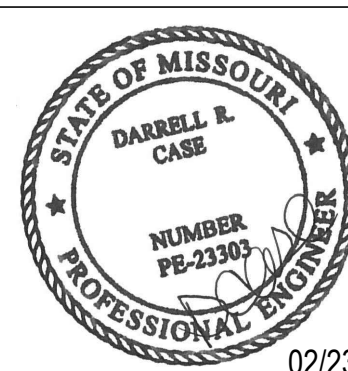
JERSEY MIKES - ST. JOSEPH

3609 N. BELT HIGHWAY
ST. JOSEPH, MO 64506

Description Date

These drawings/specifications are the property of Oculus Inc. They are furnished as contract documents only. The seal(s) and signature(s) apply only to the document to which they are affixed, and expressly disclaim any responsibility for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project. Additionally, these drawings and seal(s) shall in no way convey or imply any type of warranty or certification relating to the performance of products and materials beyond those provided by their respective manufacturer.

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02/23/2023

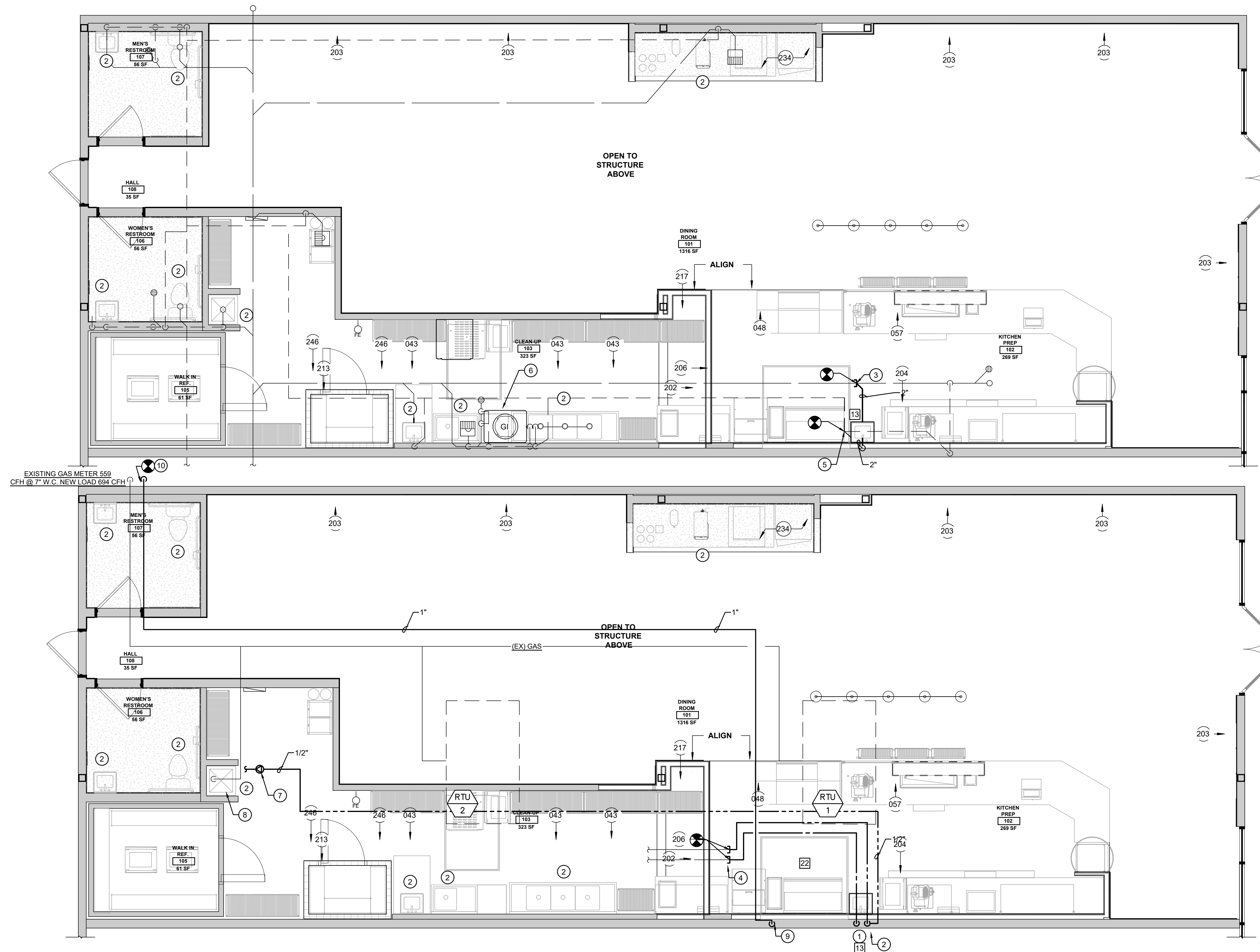
ISSUE
FOR PERMIT

Client Approval

Hood
Drawing

Project # 43423-M011
Issue Date 02/23/2023
Scale As indicated
Drawn by GWC
Checked by MV

M3.6



2 WATER AND GAS PLAN

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

PLUMBING SYMBOLS	
	SAN SANITARY SEWER LINE
	GW GREASE WASTE LINE
	VENT VENT LINE
	G GAS LINE
	CW COLD WATER LINE
	HW HOT WATER LINE
	HW-R HOT WATER RETURN LINE
	SHUT-OFF VALVE
	BACKFLOW PREVENTER
	POINT OF CONNECTION
	CW COLD WATER
	HW HOT WATER
	TW TEMPERED WATER
	FW FILTER WATER
	FS FLOOR SINK
	FD FLOOR DRAIN
	TP TRAP PRIMER
	TMV THERMOSTATIC MIXING VALVE

- ### GENERAL NOTES
- VERIFY ALL PIPING IS GRADED AS PER CODE AND INSTALLED AS CALLED FOR IN DRAWINGS AND REQUIRED FOR PROPER OPERATION.
 - PROVIDE WALL PLATES, STOPS, SUPPLIES, TRAPS AND DRAIN OUTLETS FOR ALL KITCHEN EQUIPMENT AND MISCELLANEOUS EQUIPMENT.
 - CONNECT ALL EQUIPMENT AND FIXTURES SUPPLIES BY OTHERS.
 - ALL HOT WATER PIPING SHALL BE FIBERGLASS INSULATED (R=4.0 MIN. RATING).
 - PROVIDE NAIL GUARDS AS REQUIRED.
 - ALL WORK TO BE DONE IN ACCORDANCE WITH ALL LOCAL CODES AND REQUIREMENTS.
 - VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BID AND START OF WORK.
 - ALL EXPOSED PIPING FOR DESIGNATED DISABLED ACCESS FIXTURES SHALL BE COVERED OR OTHERWISE WRAPPED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND LOCAL AUTHORITY.
 - ALTERNATE MATERIAL NOT IDENTIFIED IN DRAWINGS BUT APPROVED BY LOCAL AUTHORITY SHALL BE SUBMITTED TO ARCHITECT AND PLUMBING ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
 - PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL MATERIAL AND PIPING REQUIRED FROM ROUGH-IN LOCATION TO EQUIPMENT CONNECTION LOCATIONS, BOTH SUPPLY AND WASTE (DIRECT & INDIRECT).
 - ALL HORIZONTAL LINES AS EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT HIGHEST POSSIBLE ELEVATION AND NOT LESS THAN 6 INCHES ABOVE FINISHED FLOOR SURFACE TO PROVIDE CLEARANCE FOR CLEANING AT ALL SUCH LOCATIONS.
 - PLUMBING CONTRACTOR TO INSTALL FAUCETS, AND WASTE ON ALL SINKS AND MAKE FINAL CONNECTIONS.
 - ALL INTERIOR PIPING FOR GREASE WASTE SYSTEM SHALL BE PCV, SOLVENT WELDED.
 - WHEN PERMITTED BY CODE AND THE OWNER, CONTRACTOR MAY USE PEX AS ALTERNATE SYSTEM FOR POTABLE WATER SYSTEMS.

- NOTE:
- REFER TO RISER DIAGRAM ON SHEET P2.0 FOR PIPE SIZES.
 - REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P2.0 FOR LIST OF FIXTURES.
 - ALL EXPOSED DRAIN PIPING FOR 3-COMP SINK, PREP SINK SHALL BE PIPED IN COPPER.
 - THE PLUMBING SYSTEM SHALL BE IN COMPLIANCE WITH THE 2019 INTERNATIONAL ENERGY COMPLIANCE CODE
 - THE PLUMBING SYSTEM ON THIS PROJECT SHALL BE IN COMPLIANCE WITH THE 2014 ILLINOIS PLUMBING CODE AND TOWN OF NORMAL MUNICIPAL CODE

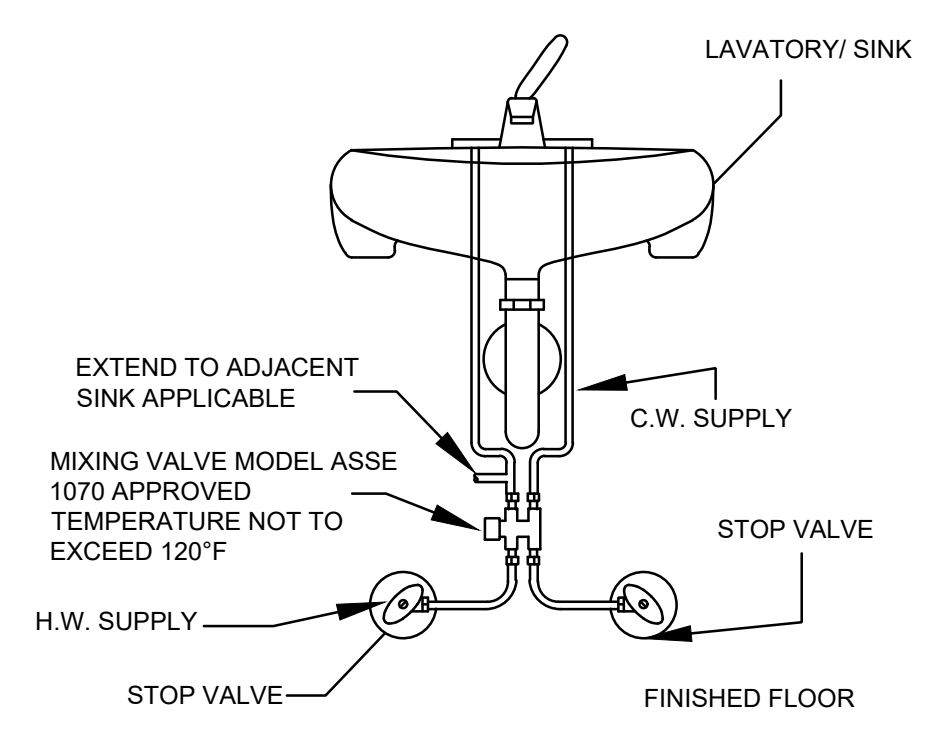
- ### PLAN KEYED NOTES
- HAND SINK. REFER TO PLUMBING EQUIPMENT SCHEDULE FOR INFORMATION. PROVIDE WITH POINT OF USE THERMOSTATIC MIXING VALVE (MV) SET AT 120°F.
 - EXISTING FIXTURE TO REMAIN. PC SHALL INSPECT FIXTURE AND REPAIR ALL WORN OR BROKEN PARTS TO MAKE FULLY OPERATIONAL. PROVIDE NEW FIXTURE IF REQUIRED
 - ROUTE TO CONNECT TO EXISTING SANITARY PIPING BELOW FLOOR. VERIFY EXACT SIZE AND LOCATION IN FIELD PRIOR TO ANY WORK.
 - ROUTE TO CONNECT TO EXISTING DOMESTIC. COLD AND HOT WATER PIPING ABOVE CEILING. VERIFY EXACT SIZE AND LOCATION PRIOR TO ANY WORK.
 - ROUTE TO CONNECT TO EXISTING SANITARY VENT PIPING ABOVE CEILING. VERIFY EXACT SIZE AND LOCATION IN FIELD
 - PC SHALL FULLY INSPECT AND CLEAN GREASE INTERCEPTOR. REPAIR ANY WORN OR DAMAGED COMPONENTS TO MAKE FULLY OPERATIONAL.
 - PROVIDE HOT WATER RECIRCULATION PUMP AND PIPING FROM THE FURTHEST HAND SINK. ROUTE PIPING TO CONNECT TO WATER HEATER PER WATER HEATER MANUFACTURING MANUAL.
 - PC TO FULLY INSPECT AND CLEAN WATER HEATER REPAIR ALL WORN OR DAMAGED PARTS TO MAKE FULLY OPERATIONAL. PROVIDE NEW WATER HEATER IF REQUIRED
 - GAS PIPING DOWN TO KITCHEN EQUIPMENT. PROVIDE GAS COOK. PRESSURE REGULATE AND UNION PRIOR TO CONNECTION TO EQUIPMENT
 - POINT OF CONNECTION TO EXISTING GAS SYSTEM METER HEADER. EXISTING GAS METER 559 CFH @ 7\"/>

1 SANITARY/GREASE WASTE PLAN

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

EXISTING GAS METER 559
CFH @ 7\"/>

GAS LOAD SUMMARY			
SYSTEM	DESIGNATION	EQUIPMENT	MBH
DOMESTIC WATER		EXISTING WATER HEATER	199
		SUB-TOTAL	199
KITCHEN EQUIPMENT	22	GRILL	135
		SUB-TOTAL	135
BUILDING HEAT	(E)RTU-1	BUILDING HEATING	250
	(E)RTU-2	BUILDING HEATING	65
		SUB-TOTAL	315
		SUB-TOTAL	315
TOTAL NATURAL GAS CONNECTED LOAD			649
GAS METER REQUIREMENTS	MBH CAPACITY		649
	TOTAL DEVELOPED LENGTH INCLUDING EQUIVALENT PIPE LENGTH FOR FITTING AND VALVE FRICTION LOSSES TO GAS METER		149 FT X 1.25= 194FT
	CONSULT GAS UTILITY COMPANY FOR REGULATOR RATING		



3 THERMOSTATIC MIXING VALVE DETAIL

SCALE: NONE



Description Date

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ISSUE FOR PERMIT
Client Approval

Plumbing Plan	
Project #	43423-MO11
Issue Date	02/23/2023
Scale	As indicated
Drawn by	JP
Checked by	DN

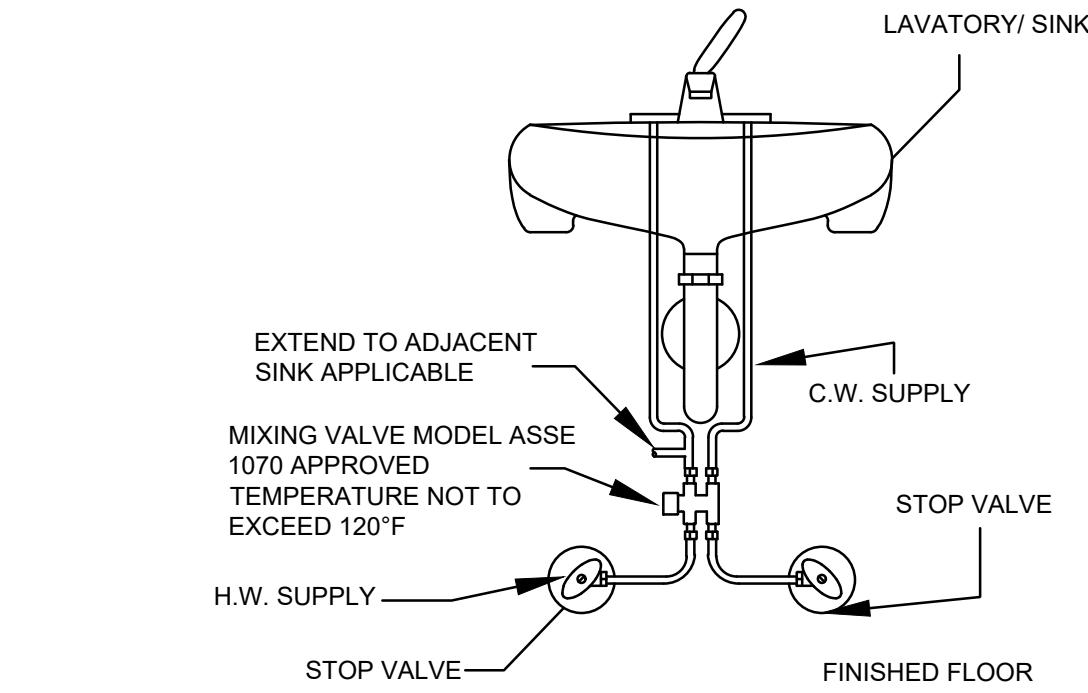
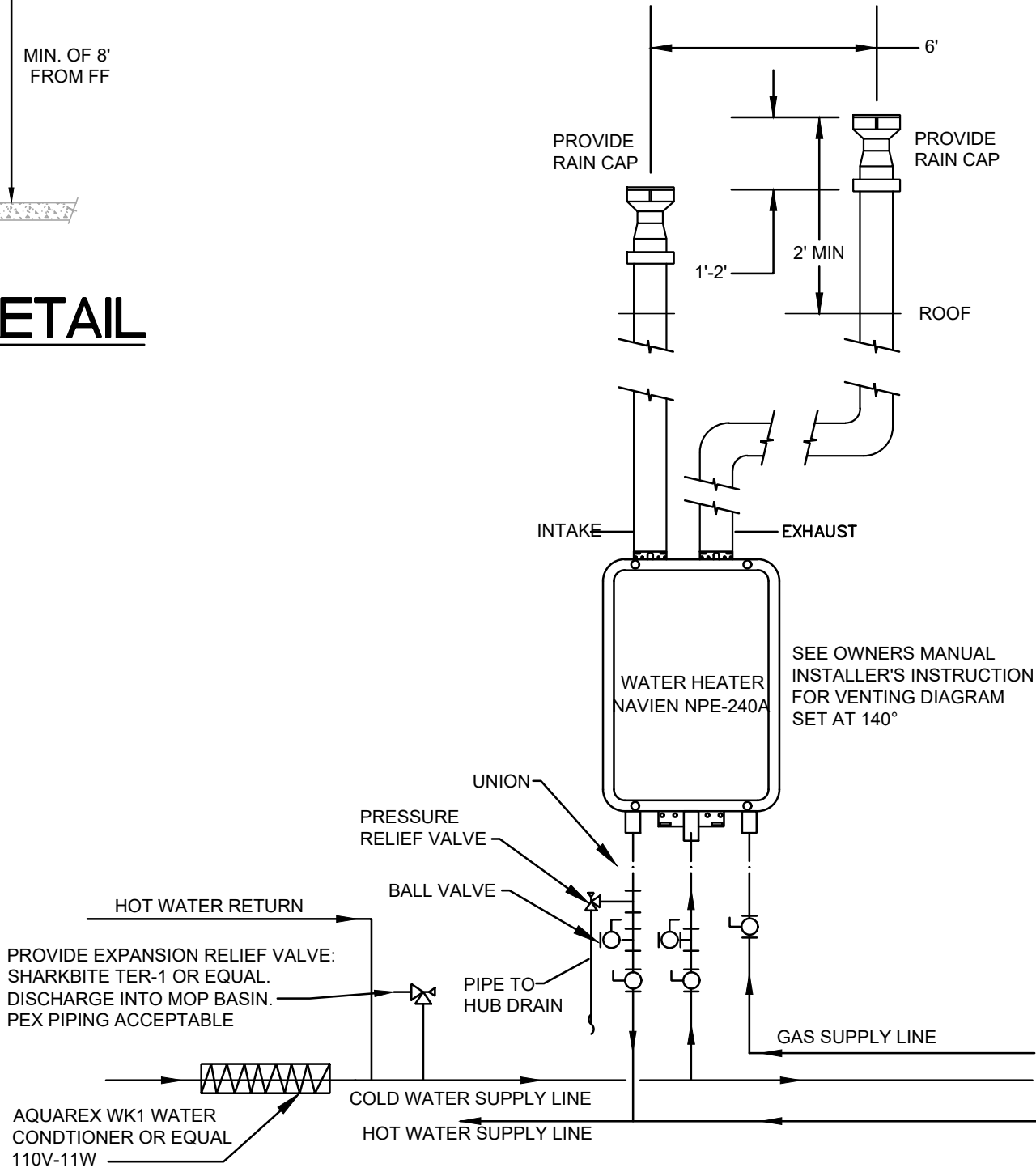
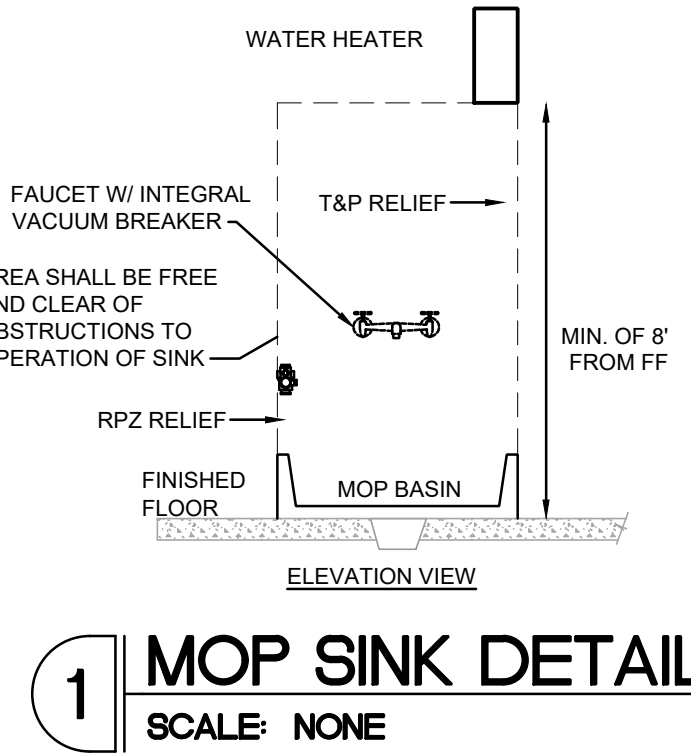
TABLE TO CALCULATE WATER FIXTURE UNITS			
PLUMBING FIXTURE	WATER FIXTURE UNITS	NUMBER OF FIXTURES	SFUS
HAND SINK	2	2	4
3- COMP SINK	2	1	2
MOP SINK	3	1	3
ICE MACHINE	0.5	1	0.5
TEA BREWER	0.5	1	0.5
SOFT DRINK CARBONATOR	0.5	1	0.5
WATER CLOSET	5	2	10
LAVATORY	2	2	4
TOTAL WATER FIXTURE UNITS			24.5
GPM			20.0
WATER SERVICE , TYPE L COPPER			1"

TABLE TO CALCULATE TOTAL DRAINAGE FIXTURES			
PLUMBING FIXTURE	DRAINAGE FIXTURE UNITS	NUMBER OF FIXTURES	DFUS
LAVATORY	1	2	2
WATER CLOSET	4	2	8
FLOOR DRAINS (FD-1) (EMERGENCY)	0	0	0
FLOOR SINK (FS)	6	3	18
HAND SINK	1	2	2
MOP SINK	3	2	6
TOTAL DRAINAGE FIXTURE UNITS			36

POTABLE WATER BACKFLOW SCHEDULE			
TYPE OF EQUIPMENT ON SYSTEM	METHOD OF CROSS CONNECTION CONTROL	MANUFACTURE AND MODEL NUMBER	REMARKS
CARBONATOR SODA SYSTEM	REDUCED PRESSURE ZONE ASSEMBLY	WATTS SD2 ASSE 1032 CERTIFIED	STAINLESS STEEL BODY WITH QUARTER TURN VALVE SS STRAINER.
ICE MACHINE	REDUCED PRESSURE ZONE ASSEMBLY	WATTS LF-009-QT-S	STAINLESS STEEL BODY WITH QUARTER TURN VALVE BRONZE STRAINER.
TEA MACHINE	DOUBLE CHECK VALVE ASSEMBLY	WATTS 9D-LF ASSE 1022/1024 CERT.	STAINLESS STEEL BODY WITH QUARTER TURN VALVE BRONZE STRAINER.
WATER SERVICE	REDUCED PRESSURE ZONE ASSEMBLY	WATTS LF-919-QT	LEAD FREE CAST COPPER WITH QUATER TURN
1. CONTRACTOR SHALL PROVIDE INDIVIDUAL BACKFLOW PREVENTERS FOR EACH PIECE OF EQUIPMENT. 2. EACH BACKFLOW PREVENTER MUST HAVE TESTING PORTS. 3. BRONZE BODIED BACKFLOW PREVENTERS ARE PERMISSABLE IF ALLOWED BY LOCAL CODES.			

NAVIEN NPE-240A FLOW RATES PER UNIT													
TEMPERATURE RISE (°F)	25	30	40	45	50	60	70	80	90	100	110	120	130
FLOW RATE (GPM)	10.1	90.1	8.3	8.1	7.0	6.0	5.0	4.7	4.5	4.4	4.0	3.5	3.5

Type of Fixture	Quantity	MAX GPM	Avg. Temp [F]	Total	Sim use factor
Compartment sink 1 1/2/3/4	1	3	140	2.4	0.8
Prep Sink	1	3	140	2.4	0.8
Hand Sink	2	1.5	110	1.5	0.5
Lavatory Sink	2	0.5	110	0.5	0.5
Mop Sink	1	2.25	140	0.45	0.2
Total Demand:				7.25 gpm	
Adjusted Demand:				4.35 gpm	



GREASE INTERCEPTOR CALCULATIONS

Reviewed by: Tye

Reference No. 44494 Project Name: Jersey Mikes - ST JOSEPH, MO

CALCULATIONS - USING ILLINOIS PLUMBING CODE

Step 1: Liquid Holding Capacity to grease interceptor

Tot. Fixture Capacity: 127.83 gal
Outdoor factor 1

127.83 x 1 = 127.83 gal

Step 2: Grease Production

Number of meals served per day: 250
Grease production value: Sandwich Shop
(low / no flatware: 0.005 lbs per serving)
Days between pump-outs: 90 days

250 x 0.005 x 90 = 112.5 lbs of FOG

Servings per day x Grease production value x Days between pump-outs = Grease output

SCHIER MODEL	Description: Polyethylene Grease Interceptor
GB2	Dimensions: Length: 35", Width: 23", Height: 13.75"
	Flow Rates/Grease Capacities: 50 GPM / 127.6 lbs
	Liquid Capacity: 20 gal

FIXTURE INFORMATION

NAME/TAG	TYPE	QTY	DIMENSIONS	CAPACITY
3 comp	3 Compartment Sink	1	21" x 21" x 14"	80 gal
FS-1	Floor Sink	2	N/A	0
hand sink	Hand Sink	2	10" x 14" x 5"	3.03 gal
mop sink	Mop Basin	1	24" x 24" x 10"	24.94 gal
Prep Sink	Prep Sink One Bowl	1	18" x 18" x 12"	16.83 gal

Description	Date
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Plumbing Specifications

Project #	43423-M011
Issue Date	02/23/2023
Scale	As indicated
Drawn by	JP
Checked by	DN

PLUMBING SPECIFICATIONS

1. GENERAL

THE ARCHITECTURAL GENERAL CONDITIONS "GOVERN WORK UNDER THIS SECTION.

BEFORE SUBMITTING A PROPOSAL, THIS CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS. IT IS EXPRESSLY UNDERSTOOD THAT THIS PROPOSAL IS BASED ON THE ABOVE REQUIREMENTS AND THAT IT COVERS EVERYTHING NECESSARY TO DO AND COMPLETE THE WORK.

2. INSPECTION AND COOPERATION

NO DEVIATION FROM THE DRAWINGS AND/OR SPECIFICATIONS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF ARCHITECT OR ENGINEER. THIS CONTRACTOR SHALL COOPERATE WITH THE OTHER CONTRACTORS TO ALLOW FOR THE INSTALLATION OF THEIR WORK AS WELL AS HIS OWN.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK FITTING IN PLACE WITHOUT CONFLICT WITH THE OTHER TRADES, WHERE PROPER PLANNING COULDSAVE AND ALLOWANCE FOR THERMAL EXPANSION.

THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR THIS INSTALLATION OF HIS WORK.

3. CODES AND PERMITS

NOTHING IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE INTERPRETED TO CONFLICT WITH ANY CITY OR PROVINCIAL LAW, REGULATION, CODE, ORDINANCE, RULING, OR FIRE UNDERWRITERS REQUIREMENT APPLICABLE TO THIS CLASS OF WORK.

SHOULD THE DRAWINGS AND/OR SPECIFICATIONS CONFLICT WITH SUCH LAWS OR ORDINANCES, THE CONFLICTING PORTION OF THE WORK SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH SUCH LAWS AND ORDINANCES WITHOUT EXTRA COST.

THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR THIS INSTALLATION OF HIS WORK.

4. ACCURACY OF DATA

THE INFORMATION GIVEN HEREIN AND ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED, BUT ITS EXTREME ACCURACY IS NOT GUARANTEED. THIS CONTRACTOR SHALL EXAMINE THE LOCATIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS AND EXISTING PIPE SIZES BEFORE STARTING THE WORK. AS ALL PIPING SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY.

THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, RAISED AND DROPS IN PIPING AND DUCTWORK AS REQUIRED BY BUILDING CONDITIONS AT NO ADDITIONAL COST.

MECHANICAL DRAWINGS SHALL NOT BE USED FOR GENERAL CONSTRUCTION DIMENSIONS OR FOR TYPE OF MATERIAL USED. FOR EXACT BUILDING LAYOUT, DIMENSIONS AND BUILDING MATERIAL USED, THIS CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS.

5. SHOP DRAWINGS

SHOP OR INSTALLATION DRAWINGS, FOUNDATION PLANS, EQUIPMENT OR APPARATUS DRAWINGS SHALL BE FURNISHED BY THIS CONTRACTOR. THESE DRAWINGS SHALL BE CLEARLY MARKED INDICATING WHICH ITEMS ARE TO BE SUPPLIED AND SHALL STATE CAPACITIES, SIZES AND GENERAL DESCRIPTION OF ALL EQUIPMENT. ANY CHANGES FROM THE SPECIFIED ITEMS SHALL BE NOTED ON THE SUBMITTALS.

SHOP DRAWINGS OF SPECIAL APPARATUS OR EQUIPMENT WHICH IS TO BE FABRICATED INDIVIDUALLY FOR THIS PROJECT AND IS NOT DESCRIBED BY STANDARD MANUFACTURER'S DRAWINGS OR BULLETINS SHALL BE SUBMITTED FOR PROCESSING BEFORE FABRICATION.

THESE DRAWINGS SHALL BE SUBMITTED IN A TIMELY MANNER.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN LIAISON WITH ALL PARTIES CONCERNED WITH THE MATERIAL SUBMITTED. THIS CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT UNTIL SHOP DRAWINGS HAVE BEEN PROCESSED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FEES ACCRUED FROM THE RETURN OF FIXTURES PURCHASED PRIOR TO THE REVIEW OF SHOP DRAWINGS AND THAT ARE NOT APPROVED.

THIS CONTRACTOR SHALL SUBMIT NO DRAWINGS WITHOUT NOTATION INDICATING DATE OF CONTRACTOR'S REVIEW AND SIGNATURE OF CHECK FOR CONTRACTOR TOGETHER WITH CONTRACTOR'S NAME AND PROJECT IDENTIFICATION.

ARCHITECT'S PROCESSING WILL NOT CONSTITUTE A COMPLETE CHECK BUT WILL INDICATE ONLY THAT GENERAL METHOD OF CONSTRUCTION AND DETAILING IS SATISFACTORY.

ARCHITECT'S PROCESSING WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS SINCE THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR DIMENSIONS AND DESIGNS OF ADEQUATE CONNECTIONS, DETAILS AND SATISFACTORY CONSTRUCTION OF ALL WORK, AS WELL AS FURNISHING MATERIALS AND WORKMANSHIP REQUIRED BY DRAWINGS AND SPECIFICATIONS WHICH MAY NOT BE INDICATED ON THE SUBMITTALS WHEN APPROVED.

6. SUBSTITUTIONS OF EQUIPMENT OR MATERIAL

THE BRAND NAMES OF EQUIPMENT OR MATERIALS SPECIFIED HEREIN SHALL ESTABLISH QUALITY, CAPACITY, TYPE AND DIMENSIONS TO BE INCLUDED IN THE BASE BID.

APPROVAL OF SUBSTITUTED ITEMS WILL BE BASED ON ABILITY AND CAPACITY TO PERFORM FUNCTION SERVED, QUALITY AND AVAILABILITY OF PARTS AND SERVICE, QUALITY OF EQUIPMENT, DELIVERY SCHEDULE, ETC. THE ARCHITECT SHALL REVIEW ALL SUCH REQUESTS BUT RESERVES THE SOLE RIGHT OF JUDGEMENT TO APPROVE OR REJECT THE PROPOSED SUBSTITUTIONS.

ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL NOT CAUSE ADDITIONAL COST. ANY CHANGES OF PIPING, DUCTWORK, ELECTRICAL CONTROLS OR INSTALLATION REQUIRED BECAUSE OF THE SUBSTITUTION OF EQUIPMENT SHALL BE PAID FOR BY THIS CONTRACTOR PROPOSING THE SUBSTITUTION.

7. ERECTION OF APPARATUS

ALL WORK SHALL BE DONE UNDER THE PERSONAL SUPERVISION OF THIS CONTRACTOR WHO SHALL PROVIDE A COMPETENT FOREMAN TO LAY OUT ALL WORK. ALL WORK SHALL BE LAID OUT WITH DUE REGARD FOR THE SPACE REQUIREMENTS OF THE OTHER CONTRACTORS. THIS CONTRACTOR SHALL REPORT ANY CONFLICTS OR DIFFICULTIES IN REGARD TO THE INSTALLATION IMMEDIATELY.

WHERE CROWDED LOCATIONS EXIST OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES, THIS CONTRACTOR SHALL MAKE COMPOSITE DRAWINGS SHOWING THE EXACT LOCATIONS OF PIPES, DUCT, CONDUIT AND EQUIPMENT. DRAWINGS SHALL BE BASED ON FIELD MEASUREMENTS AND AFTER CONSULTATION AND AGREEMENT BETWEEN THE TRADES, SHALL BE APPROVED BY ARCHITECT AND ENGINEER BEFORE INSTALLATION OF THE WORK.

EQUIPMENT OF A TYPE TO REQUIRE REPLACEMENT, SERVICING, ADJUSTING OR MAINTENANCE SHALL BE LOCATED TO ALLOW EASY ACCESS AND SPACE FOR REMOVAL OF INTERNAL ASSEMBLIES, IF REQUIRED.

8. EXCAVATION AND BACKFILL

THIS CONTRACTOR SHALL DO ALL EXCAVATION REQUIRED TO INSTALL PIPES AND EQUIPMENT SHOWN ON THE PLANS OR REQUIRED FOR PROPER OPERATION. EXCESS EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH EARTH AND THOROUGHLY TAMPED. UTILITIES SERVICES LINES SHALL BE INSPECTED AND APPROVED BY THE PROPER INSPECTION AUTHORITY BEFORE BACKFILLING.

INSTALL PLASTIC PIPE AND FITTINGS IN STRICT ACCORDANCE WITH THE INSTALLATION RECOMMENDATIONS OF THE PIPE AND FITTINGS MANUFACTURER, APPENDIX 11 OF ASTM D2226 (STORAGE AND INSTALLATION PROCEDURES FOR POLYETHYLENE DRAIN, WASTE, AND VENT PIPING) AND FOR BURIED PIPE, ASTM D2321 (STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS). SUCH INSTRUCTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO CUTTING, SOLVENT CEMENTING AND PRIMING, JOINTS, CONNECTIONS, TRANSITIONS, ALIGNMENT AND GRADE, TRENCHING, BEDDING, BACKFILL AND COMPACTION, SUPPORTS AND ALLOWANCE FOR THERMAL EXPANSION.

CAST IRON PIPING TRENCHING SHALL BE IN ACCORDANCE TO THE CAST IRON SOIL PIPE AND FITTINGS HANDBOOK ISSUED BY THE CAST IRON SOIL PIPE INSTITUTE.

THE BOTTOM OF TRENCHES SHALL BE TAMPED HARD AND GRADED TO SECURE THE REQUIRED FILL. ROCK WHERE ENCOUNTERED SHALL BE EXCAVATED TO A DEPTH OF SIX INCHES (152.4 MM) BELOW THE BOTTOM OF THE PIPE, AND BEFORE THE PIPE IS LAID, THE SPACE BETWEEN BOTTOM PIPE AND ROCK SURFACE SHALL BE FILLED WITH GRAVEL. IF TRENCHES ARE DEEPER THAN BOTTOM OF FLOORING OR WEAVER W/LOCK LEVER.

CLOSER THAN 6 FEET (30") TO FOOTING THEY MUST BE FILLED WITH COHESIVE SOIL, AND COMPACTED TO 95% OF MAXIMUM DENSITY, STANDARD PROCTOR, ASTM D-698. ALL OTHER EXCAVATIONS UNDER FLOOR SLABS COMPACTED TO 95% STANDARD PROCTOR.

WHEN EXCESS DIRT HAS BEEN REMOVED, THE TRENCH SHALL BE BROUGHT TO THE REQUIRED LEVEL WITH SAND AND GRAVEL FINELY COMPACTED.

TRENCHES AND EXCAVATION SHALL BE BACKFILLED IN 6" LAYERS OF EARTH, FREE FROM CLODS, AND STONES THOROUGHLY TAMPED TO A DEPTH OF 12" ABOVE THE PIPE. AFTER THAT DEPTH HAS BEEN REACHED, BACKFILLING SHALL BE DONE IN 12" LAYERS, THOROUGHLY TAMPED.

9. EQUIPMENT SUPPORTS

ANY STRUCTURAL STEEL MEMBERS REQUIRED TO ADAPT THE EQUIPMENT AND PIPING AS FURNISHED BY THIS CONTRACTOR, TO THE BUILDING STEEL OR STRUCTURE, SHALL BE INCLUDED IN THE BID OF THE CONTRACTOR FURNISHING THE EQUIPMENT OR PIPING. HANGING OF ALL EQUIPMENT AND REQUIRED SUPPORTING STEEL AND BRACING SHALL BE FURNISHED BY THE CONTRACTOR WHO SUPPLIES THE EQUIPMENT.

10. CUTTING AND PATCHING

THIS CONTRACTOR SHALL INCLUDE ALL CUTTING, PATCHING AND PAINTING OF PATCHED AREAS REQUIRED FOR AND RESULTING FROM THE INSTALLATION OF ALL OF THIS CONTRACTOR'S WORK, EXCEPT WHERE NOTED OTHERWISE.

ALL OPENINGS AROUND PIPE PENETRATIONS THROUGH SMOKE OR FIRE-RATED FLOORS, CEILINGS OR WALLS SHALL BE SEALED AIRTIGHT WITH MATERIAL HAVING A RATING EQUAL TO THE MATERIAL OF THE WALL, CEILING AND/OR FLOOR PENETRATED.

ALL PATCHING SHALL BE NEATLY FINISHED TO THE SATISFACTION OF THE ARCHITECT.

11. ACCESS PANELS

THIS CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY THE GENERAL CONTRACTOR, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, AND THE PROPER SERVING OF EQUIPMENT AND LINES INSTALLED UNDER THE CONTRACT.

ALL PANELS SHALL BE MILCOR, STYLE "M" FOR MASONRY, "A" FOR ACOUSTICAL TILE AND "K" FOR PLASTER. EXCEPT FOR FIRE-RATED UL 1-1/2 HOUR AND "B" LABEL ACCESS PANELS SHALL BE FURNISHED IN FIRE-RATED WALLS AND CEILINGS AS INDICATED ON THE DRAWINGS. ACCESS DOORS SHALL BE 12" X 12" MINIMUM SIZE FOR VALVES.

12. DIELECTRIC UNIONS

FOR THE PREVENTION OF ELECTROLYTIC CORROSION AT CONNECTIONS BETWEEN PIPE OF DISSIMILAR METALS OR BETWEEN PIPE AND EQUIPMENT CONNECTIONS OF DISSIMILAR METALS, PROVIDE DIELECTRIC UNIONS OR FLANGES.

13. MOTORS, STARTERS AND DISCONNECTS

UNLESS SPECIFIED TO BE FURNISHED WITH EQUIPMENT, ALL MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

14. JOINTS AND FITTINGS

THREADS ON SCREWED PIPE SHALL BE STANDARD, CLEAN BUTT AND TAPERED. PIPE SHALL BE REAMED OF BURRS AND KEPT CLEAN OF SCALE, DIRT AND SHAVINGS. TREADS SHALL BE MADE WITH FLAKED GRAPHITE AND LUBRICATING OIL OR APPROVED PIPE COMPOUND ON THE MALE THREAD ONLY.

COPPER-TO-STEEL AND COPPER-TO-BRASS JOINTS SHALL BE MADE WITH SILVER SOLDER. ALL OTHER COPPER-TO-COPPER JOINTS ABOVE GROUND SHALL BE MADE WITH LEAD FREE SOLDER. COPPER PIPE SHALL BE CUT SQUARE, BURRS REMOVED, AND CARE TAKEN TO KEEP THE LINES FREE OF DIRT AND MOISTURE. ALL TUBING AND FITTINGS SHALL BE THOROUGHLY CLEANED.

WELDED PIPE SHALL HAVE BUTT WELDED SINGLE "V" TYPE JOINTS FOR WHICH PIPE HAS BEEN BEVELED TO 45 DEGREES. WELD SHALL BE ONE-FOURTH GREATER THAN THE THICKNESS OF THE PIPE. JOINTS TO EQUIPMENT ACCESSORIES, ETC. SHALL BE MADE BY MEANS OF FLANGES AND/OR ADAPTERS.

UNIONS SHALL BE PROVIDED AT EACH SCREWED VALVE AND UNIONS OR FLANGES AT EACH EQUIPMENT CONNECTION.

15. EXPANSION JOINTS

FURNISH AND INSTALL FLEXONICS EXPANSION JOINTS IN PIPING SYSTEM WHERE SHOWN OR NECESSARY FOR EXPANSION AND CONTRACTION.

EXPANSION JOINTS IN PIPE 4" AND GREATER SHALL BE THE PACKLESS TYPE WITH STAINLESS STEEL BELLOW AND HAVE WELDED OR FLANGED END. JOINTS SHALL HAVE TRAVERSE AS INDICATED ON THE PLANS. EXPANSION JOINTS SHALL BE OF THE CONTROLLED FLEXING TYPE.

EXPANSION JOINTS IN COPPER PIPE UNDER 4" IN SIZE SHALL BE OF THE COMPENSATOR TYPE CONSTRUCTED OF TWO-PLY STAINLESS STEEL BELLOW AND CARBON STEEL SHROUDS AND END FITTINGS, INTERNAL GUIDES AND ANTI-TORQUE DEVICES.

EXPANSION JOINTS IN STEEL PIPE UNDER 4" IN SIZE SHALL BE OF THE COMPENSATOR TYPE CONSTRUCTED OF TWO-PLY STAINLESS STEEL ELBOWS AND CARBON STEEL SHROUDS AND END FITTINGS, INTERNAL GUIDES AND ANTI-TORQUE DEVICES.

PROVIDE GUIDES ON EACH SIDE OF EXPANSION JOINT, AT 4 PIPE DIAMETERS, 14 PIPE DIAMETERS, AND A THIRD GUIDE AS RECOMMENDED BY THE MANUFACTURER.

16. PIPE FLEXIBLE CONNECTIONS

FLEXIBLE PIPE CONNECTIONS SHALL BE RESISTOFLUX #R6904 OR APPROVED EQUAL FLEXIBLE CONNECTIONS MADE FROM TEFLON.

PROVIDE FOR MOVEMENT IN PIPING BY USE OF SWING JOINTS AT CONNECTION OF ALL BRANCHES TO MAINS AND RISERS. ALL BRANCHES FROM MAINS AND RISERS SHALL HAVE 1/4" CLEARANCE BETWEEN PIPE INSULATION AND SLEEVE PERMIT PIPE MOVEMENT.

17. VALVES

THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL VALVES OF ONE MANUFACTURER, FIGURE NUMBER AND TYPE THROUGHOUT THE ENTIRE INSTALLATION OF THE WORK, UNLESS OTHERWISE SPECIFIED. THE FOLLOWING NUMBERS ARE FROM THE CRANE CATALOG. EQUAL VALVES OF REPUTABLE MANUFACTURER, SUCH AS HAMMOND, NIBCO-SCOTT AND/OR JENKINS WILL BE CONSIDERED EQUIVALENT.

ALL VALVES SHALL BE BUILT FOR A MINIMUM OF 125 PSIG WORKING PRESSURE.

ISOLATION VALVES SHALL BE PROVIDED ON ALL INDIVIDUAL FIXTURES AND FIXTURE GROUPS.

CHECK VALVES 2-1/2" AND SMALLER SHALL BE #36 (SCREWED ENDS) OR #1342 (SOLDER-JOINT ENDS) SWING-TYPE WITH BRONZE BODY AND BRONZE TRIM.

BUTTERFLY VALVES 2" AND LARGER SHALL BE #12F, IRON BODY, CAST-IRON WEAVER W/LOCK LEVER.

BALL VALVE UP TO 3" IN SIZE SHALL BE APOLLO SERIES #70 BRONZE VALVE WITH CHROME-PLATED BALL AND TEFLON SEAT.

GAS LINE COCKS UP TO 1/4" SHALL BE #320, 1/2 PSI FOR INDOOR APPLIANCE CONNECTIONS SHALL CONFORM TO ANSI Z21 1.5 AND CSA 9.1, 5 PSI FOR INDOOR SHUTOFF SHALL CONFORM TO CSA 91-002 AND ASME B16.44.

HOSE END VALVES SHALL BE #438 GATE VALVES WITH HOSE END NIPPLES.

18. PIPE SLEEVES AND COLLARS

THIS CONTRACTOR SHALL LAY OUT ALL HIS WORK AND SET SLEEVES IN NEW CONSTRUCTION AS CONCRETE FORMS AND WALL ARE ERECTED SO AS TO BE ABLE TO INSTALL HIS WORK WITHOUT CUTTING OR BREAKING OF FLOORS OR WALLS. ALL SLEEVES FOR INSTALLED PIPING SHALL BE LARGE ENOUGH TO ALLOW INSULATION TO PASS THROUGH SLEEVE.

ALL SLEEVES PASSING THROUGH FLOORS WHICH ARE WATERPROOFED SHALL BE COPPER TUBING SLEEVES EXTENDING 1" ABOVE FINISHED FLOOR, ALL OTHER SLEEVES SHALL BE 24 GAUGE GALVANIZED PIPES AND SLEEVES SHALL BE THOROUGHLY PACKED WITH WATERPROOF SEALANT AND THE REMAINING SPACE FILLED WITH MASTIC AND MUST BE WATERTIGHT.

ALL SLEEVES PASSING THROUGH INNER WALLS SHALL BE STANDARD PIPE THIMBLES EQUAL TO THE THICKNESS OF THE WALL.

SPACES BETWEEN PIPES AND SLEEVES THROUGH OUTSIDE WALLS, ABOVE GRADE, SHALL BE CAULKED WITH CAULKING COMPOUND; THOSE BELOW GRADE SHALL BE MADE WATERTIGHT.

SPACE AROUND ALL PIPING THROUGH FIRE OR SMOKE RATED PARTITIONS OR FLOORS SHALL BE SEALED AIRTIGHT WITH MATERIALS OR EQUIPMENT AS SPECIFIED UNDER FIRESTOPPING.

ALL PIPE PENETRATIONS OF SLABS ON GRADE SHALL BE WRAPPED WITH #15 BUILDING FELTS OR FOAM WRAP.

19. HANGERS

A. PIPE HANGER AND SUPPORT PRODUCTS INSTALLATION

a. VERTICAL PIPING: MSS TYPE B OR 42 CLAMPS.

b. INDIVIDUAL, STRAIGHT, HORIZONTAL PIPING RUNS: 100 FEET AND LESS, MSS TYPE 1, ADJUSTABLE STEEL SLINGS HANGERS.

c. LONGER THAN 100 FEET: MSS TYPE 43, ADJUSTABLE ROLLER HANGERS. LONGER THAN 100 FEET IF INDICATED: MSS TYPE 49, SPRING CUSHION ROLLS.

d. MULTIPLE, STRAIGHT, HORIZONTAL PIPING RUNS 100 FEET OR LONGER: MSS TYPE 44, PIPE ROLLS. SUPPORT PIPE ROLLS ON TRAPEZE.

e. BASE OF VERTICAL PIPING: MSS TYPE 52, SPRING HANGERS.

B. SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH FLOOR

C. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD HANGERS, TO A MINIMUM OF 3/8 INCH

D. INSTALL HANGERS FOR ALL PIPING PER MSS SP-69, MANUFACTURERS MANUALS AND AS PER HANGER SUPPORT DETAIL ON DRAWINGS

E. INSTALL SUPPORTS FOR VERTICAL COPPER TUBING EVERY 10 FEET

F. INSTALL SUPPORTS FOR VERTICAL STEEL PIPING EVERY 15 FEET

G. SUPPORT PIPING AND TUBING NOT LISTED IN THIS ARTICLE ACCORDING TO MSS SP-69 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

20. DAMAGE BY LEAKS

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO THE GROUNDS, WALKS, ROADS, ADJ. BUILDING COMPONENTS AND FINISHES, PIPING SYSTEMS, ELECTRICAL SYSTEMS AND THEIR EQUIPMENT AND CONTENT, CAUSED BY LEAKS IN THE PIPING SYSTEMS BEING INSTALLED OR HAVING BEEN INSTALLED HEREIN. ALL REPAIRS WILL BE MADE AT THIS CONTRACTOR'S EXPENSE.

21. PIPE MARKERS

FURNISH AND INSTALL BRADY #B-350 THIN FILM OR APPROVED EQUAL PIPE MARKERS. MARKERS SHALL BE 1-1/8" HIGH FOR PIPES 3" AND UNDER AND 2-1/4" HIGH FOR PIPES OVER 3". MARKERS SHALL INDICATE TYPE OF SERVICE AND DIRECTION OF FLOW.

PIPE MARKERS SHALL BE LOCATED:

- AT EQUIPMENT CONNECTIONS
- AT ACCESS DOORS
- AT BRANCH MAINS
- ON ALL ACCESSIBLE PIPE A MAXIMUM OF 75' BETWEEN MARKERS.
- AT ALL PENETRATIONS ON EITHER SIDE OF PENETRATION

22. FLOOR, WALL AND CEILING PLATES

PIPES PASSING THROUGH FLOORS AND FINISHED CEILINGS, FITTED WITH CHROME- PLATED PLATES OR ESCUTCHEONS LARGE ENOUGH TO COMPLETELY CLOSE OPENING AROUND PIPE OR PIPE COVERING AND FLOOR SUPPORT IN THE CASE OF VERTICAL PIPING, SECURELY HELD IN PLACE; CAULK WATERTIGHT AROUND PIPE IN UNFINISHED ROOMS.

23. FIRE STOPPING

THE PENETRATIONS OF FIRE AND/OR SMOKE RATED WALLS OR FLOORS SHALL BE 31. PROTECTED BY A UL APPROVED MATERIAL TO RETAIN THE INTEGRITY OF THE TIME-RATED CONSTRUCTION BY MAINTAINING AS EFFECTIVE BARRIER AGAINST THE SPREAD OF FLAME, SMOKE AND GASES. IT SHALL BE USED IN ALL DUCT, CABLE, CONDUIT AND PIPING PENETRATIONS THROUGH FLOOR SLABS AND TIME-RATED WALLS, AND/OR FLOORS. THE RATING OF THE FIRESTOPPING SHALL EQUAL THE RATING OF THE TIME-RATED ASSEMBLY.

FIRESTOPPING MATERIAL SHALL BE 3M FIRE BARRIER SEALING SYSTEM OF APPROVED EQUAL. FIRESTOPPING MATERIAL SHALL CONSTITUTE ONE OR MORE OF THE FOLLOWING PRODUCTS:

- CAULK: CP-25
- PUTTY: #303
- WRAP/STRIP: FS195
- COMPOSITE SHEET: CS195
- PENETRATING SEALING SYSTEMS: 7900 SERIES

24. CLEANUP AND ADJUSTMENT

ALL PARTS WORK LEFT CLEAN: EQUIPMENT, FIXTURES, VALVES, PIPES AND FITTINGS CLEANED OF GREASE AND METAL CUTTINGS. ANY DISCOLORATION OR OTHER DEFECTS OF BUILDING, ITS FINISH OR FURNISHING DUE TO THIS CONTRACTORS FAILURE TO PROPERLY CLEAN INTERIOR OF PIPING, REPAIRED AT THIS CONTRACTOR'S EXPENSE. ALL AUTOMATIC CONTROL DEVICES ADJUSTED FOR PROPER OPERATION. ALL SURPLUS MATERIALS AND ANY RUBBISH REMOVED AS IT ACCUMULATES. ALL EQUIPMENT LEFT IN SAFE, PROPER OPERATING CONDITION.

DAMAGE TO ANY PORTIONS MUST BE REPAIRED OF THE PART REPLACED BY THIS CONTRACTOR AND ALL PARTS LEFT WITHOUT DENTS, SCRATCHES, THROUGH THE FINISH PAINT, LOOSE PLASTER, STAINS OR OTHER BLEMISHES.

25. PIPE TESTING AND START-UP

ALL PIPING TO BE TESTED IN ACCORDANCE WITH THE FOLLOWING:

A. WATER: 100 PSI WATER PRESSURE UNDER NO CIRCUMSTANCES SHALL ALL TESTING MUST HOLD FOR AT LEAST 24 HOURS WITHOUT LOSS OF PRESSURE OR VACUUM. ALL CONCEALED PIPING SHALL BE TESTED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE PRIOR TO COVERING. BEFORE STARTING ANY SYSTEM, ALL EQUIPMENT SHALL BE LUBRICATED PER MANUFACTURERS REQUIREMENTS BY THIS CONTRACTOR. TEST ENTIRE BUILDING SYSTEMS UNDER FULL LOAD CONDITIONS FOR A PERIOD OF NOT LESS THAN ONE (1) WEEK DURING WHICH TIME THE OPERATING PERSONNEL SHALL BE FULLY INSTRICTED IN THE OPERATION AND MAINTENANCE OF THE PLANT. AFTER THE PLANT IS IN FULL OPERATION, THE OPERATING PERSONNEL SHALL BE FURNISH WHATEVER ADDITIONAL SERVICE IS REQUIRED TO RECALIBRATE AND RESET CONTROLS, VALVES, BALANCING COCKS, ETC. TO ENSURE PROPER OPERATION OF THIS SYSTEM.

26. TESTING AND BALANCING

THIS CONTRACTOR SHALL AT THE TIME OF INSTALLATION ENSURE THAT ALL DEVICES TO COMPLETE TESTING AND BALANCING AS DIRECTED HEREIN ARE FURNISHED AND INSTALLED DURING FABRICATION AND INSTALLATION OF WORK. THIS WORK SHALL BE PERFORMED PRIOR TO TURNOVER TO BUILDING OCCUPANT AND WITH AMPLE TIME TO MAKE ANY NECESSARY REPAIRS OR CHANGES TO ACHIEVE A PROPERLY OPERATING SYSTEM.

27. SEISMIC RESTRAINTS ON MECHANICAL EQUIPMENT

ALL PLUMBING EQUIPMENT SHALL BE PROVIDED WITH SEISMIC RESTRAINING SERVICES AS REQUIRED BY LOCAL BUILDING CODES. CONTRACTOR SHALL HAVE LOCAL BUILDING OFFICE REVIEW EACH PIECE OF EQUIPMENT WHEN INSTALLED AND THE CONTRACTOR SHALL INSTALL ALL REQUIRED TIE DOWN, ANCHORS, STRAPS OR OTHER DEVICES REQUIRED.

28. GUARANTEE

THIS CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, MATERIALS, AND LABOR FURNISHED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AND SHALL REPAIR OR REPLACE ANY EQUIPMENT OR MATERIAL WHICH IS DEFECTIVE OR IMPROPERLY INSTALLED. IN ADDITION, THIS CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDINGS AND ITS CONTENTS OR OTHER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIALS INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS.

29. TEMPORARY WATER

TEMPORARY WATER SERVICE (IF REQUIRED) TO THE BUILDING SHALL BE PROVIDED BY THIS CONTRACTOR TO THE BUILDING FOR CONSTRUCTION PURPOSES. THIS CONTRACTOR TO MAINTAIN WATER SERVICE AS REQUIRED DURING CONSTRUCTION.

30. DOMESTIC WATER SERVICE

THIS CONTRACTOR SHALL COORDINATE EXACT AVAILABLE DELIVERY PRESSURE AND PROVIDE ALTERNATE FEE FOR A PRESSURE BOOSTING SYSTEM IF PRESSURE IS LESS THAN 6PSI) STATIC. PROVIDE PRESSURE REDUCING VALVE WITH STRAINER IN SERVICE LINE IF REQUIRED BY LOCAL CODES OR PRESSURE IS ABOVE 80 PSI.

JOINTS SHALL BE CLEANED AND DEBURRED AS RECOMMENDED BY THE MANUFACTURER AND FEDERAL, STATE, AND LOCAL CODES AND PRESS FITTINGS ARE AN ACCEPTABLE IF ALLOWED BY LOCAL A.HJ. WHERE PRESS FITTING S ARE NOT ALLOWED SOLDERED AS LISTED BELOW. FLUX SHALL BE NON-CORROSIVE, VITACULIC GROUVED COUPLINGS ARE ACCEPTABLE ALTERNATE IF ALLOWED BY LOCAL A.HJ.

ABOVE GRADE - WHERE FITTINGS ARE SOLDERED BOTH FITTINGS AND TUBING SHALL BE CLEANED AND DEBURRED PRIOR TO SOLDERING. THE SOLUTION SHALL BE DISMILAR METALS COME INTO DIRECT CONTACT WITH COPPER TUBING, E.G., GALVANIZED STRAPPING, HANGERS, OR CLAMPS TO SECURE THE TUBING.

BELOW GRADE, OR FLOOR SLAB ON EARTH OR STONE FILL - HIGH TEMPERATURE SOLDER, 1200 DEG. F OR GREATER MELTING POINT.

NOTE: WATER PIPE TO BE PROPERLY SECURED AND ALIGNED SO AS NOT TO EXERT VERTICAL OR HORIZONTAL STRESSES ON THE SEATING OF THE MATING (MALE AND FEMALE) SURFACES OF THE UNIONS.

MATERIALS - UNDERGROUND: TYPE "K" COPPER TUBE, SOFT TEMPER MATERIALS - ABOVEGROUND: TYPE "L" COPPER TUBE, HARD DRAWN. ALTERNATE MATERIALS - PE-XA PIPING IS AN ACCEPTABLE ALTERNATE IF NOT CLOSE OPERING AROUND PIPE OR PIPE COVERING AND FLOOR SUPPORT IN THE VEGA. PROPOSED COPPER 1/2-INCH THROUGH 4-INCH WITH EPDM SEALING ELEMENT AND/OR VIEGA, PRESSURE 3/4 OR 316 STAINLESS 1/2-INCH THROUGH 4-INCH WITH EPDM OR FKM SEALING ELEMENT IS ACCEPTABLE IF ALLOWED BY LOCAL CODE

31. STERILIZATION OF DOMESTIC WATER SYSTEM

THE ENTIRE DOMESTIC WATER DISTRIBUTION SYSTEM SHALL BE FLUSHED CLEAR OF ANY DEBRIS AND THOROUGHLY STERILIZED WITH A SOLUTION CONTAINING 100 PPM OF FREE CHLORINE FOR 12 HOURS. THE SOLUTION SHALL REMAIN IN THE SYSTEM FOR TWO (2) HOURS DURING WHICH TIME ALL VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER STERILIZATION, THE SOLUTION SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAN WATER UNTIL THE RESIDUE CHLORINE CONTENT IS NOT GREATER THAN THE CHLORINE LEVEL OF THE AVAILABLE WATER SUPPLY.

STERILIZATION SHALL BE PERFORMED PRIOR TO TURNOVER TO OCCUPANT AS TO ALL FITTINGS SHALL HAVE THE SAME COMPONENTS RATINGS AS LISTED ABOVE, 24 HOURS.

THIS CONTRACTOR SHALL HAVE THE WATER TESTED AND APPROVED BY THE

32. INSULATION

INSULATION SCHEDULE:

DOMESTIC COLD WATER - 1/2" THICK ARMAFLEX (FLAME SPREAD 25/ SMOKE DEVELOPED 50)

DOMESTIC HOT WATER - 1" THICK ARMAFLEX (FLAME SPREAD 25/ SMOKE DEVELOPED 50)

DOMESTIC HOT WATER RETURN- 1" THICK ARMAFLEX (FLAME SPREAD 25/ SMOKE DEVELOPED 50)

EXPOSED STORM WASTE AND SANITARY WASTE - 1/2" THICK ARMAFLEX (FLAME SPREAD 25/ SMOKE DEVELOPED 50)

ALL MATERIALS USED SHALL COMPLY WITH SECTIONS 1712 AND 1713 OF THE UBC

38. NATURAL GAS PIPING SYSTEM

ALL PIPING FROM GAS METER TO GAS-FIRED EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.

ALL GAS PIPING TO BE IN ACCORDANCE WITH LOCAL CODES, NFPA-54, IFGC AND UPC ALL GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-54, LOCAL CODES, AND REGULATIONS.

ALL GAS PIPING SHALL BE SCHEDULE 40 BLACK OR GALVANIZED STEEL WITH BLACK OR GALVANIZED WITH MALLEABLE SCREWED FITTINGS. USE TEFLON TAPE ON ALL THREADED JOINTS. FITTINGS LARGER THAN TWO INCHES (2") SHALL BE WELDED. PROVIDE UNIONS AND GAS SHUT-OFF VALVES AT EACH PIECE OF GAS FIRED EQUIPMENT OR APPLIANCE. ANY GAS PIPING CONCEALED IN CHASES, AND/OR INACCESSIBLE CEILING IS TO BE WELDED WITH WELDED FITTINGS.

FLEXIBLE CSST PIPING MATERIAL IS AN ACCEPTABLE ALTERNATE ONLY IF ALLOWED BY LOCAL A.HJ AND RESIZED PER MANUFACTURERS SIZING GUIDELINE

ALL FLEXIBLE GAS PIPING SYSTEM COMPONENTS MUST BE: A.1 CSA INTERNATIONAL CERTIFIED CORRUGATED STAINLESS STEEL TUBING (CSST) FLEXIBLE GAS PIPING WITH MECHANICAL ATTACHMENT APPARATUS/FITTINGS THAT CONFORM TO THE LATEST ANSI STANDARDS FOR SAFE PERFORMANCE ANSI L1-C1 / CSA 6.26. A.2 UNDERWRITERS LABORATORIES CLASSIFICATION LISTED FOR THRU PENETRATION FIRE TEST REQUIREMENTS. RATINGS TO INCLUDE ONE, TWO, THREE AND FOUR HOUR TESTS. A.3 LISTED WITH FM (FACTORY MUTUAL) REQUIREMENTS FOR FLAMMABLE GAS PIPING SYSTEMS. FOR SEISMIC RESISTANCE. A.4 TUBING SHALL BE TESTED AND LISTED IN ACCORDANCE WITH ICC LC-1024.

THE STACKS SHALL BE EXTENDED THROUGH ROOF OF BUILDING TO POINTS NOT LESS THAN 12" ABOVE ROOF. EXTENSIONS THROUGH ROOF SHALL BE MADE WATER-TIGHT BY MEANS OF A LEAD FLASHING OF FOUR POINTS SHEET LEAD AND WITH AMPLE TIME TO MAKE ANY NECESSARY REPAIRS OR CHANGES TO ACHIEVE A PROPERLY OPERATING SYSTEM.

ALL CLEANOUTS IN FLOORS TO BE PROVIDED AT EVERY TURN GREATER THAN 45° AT INTERVALS OF GREATER THAN 30'. AT ANY STACK ROUTING BELOW GRADE, NOT ALL CLEANOUTS LOCATIONS MAY BE SHOWN ON THE DRAWING.

ALL TRAP SCREWS MUST BE OF FULL SIZE OF PIPE UP TO 4" AND 4" FOR ALL OVER FOR RESISTANCE TO ARCING FROM TRANSIENT ENERGY.

ALL TRAP CONNECTIONS BETWEEN OUTLETS OF FIXTURES AND SOIL OR WASTE PIPE SHALL BE MADE WITH "Y" BRANCHES TO "Y" BRANCHES WHEREVER POSSIBLE. ALL HORIZONTAL SOIL WASTE AND VENT PIPE SHALL BE GRADED TOWARD OUTLETS AND PIPE NOT BURIED SHALL BE INSTALLED ABOVE THE CEILING OR CLOSE AS POSSIBLE TO THE CONSTRUCTION ABOVE WHERE THERE IS NO CEILING.

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ALL CLEANOUTS IN FLOORS TO BE PROVIDED AT EVERY TURN GREATER THAN 45° AT INTERVALS OF GREATER THAN 30'. AT ANY STACK ROUTING BELOW GRADE, NOT ALL CLEANOUTS LOCATIONS MAY BE SHOWN ON THE DRAWING.

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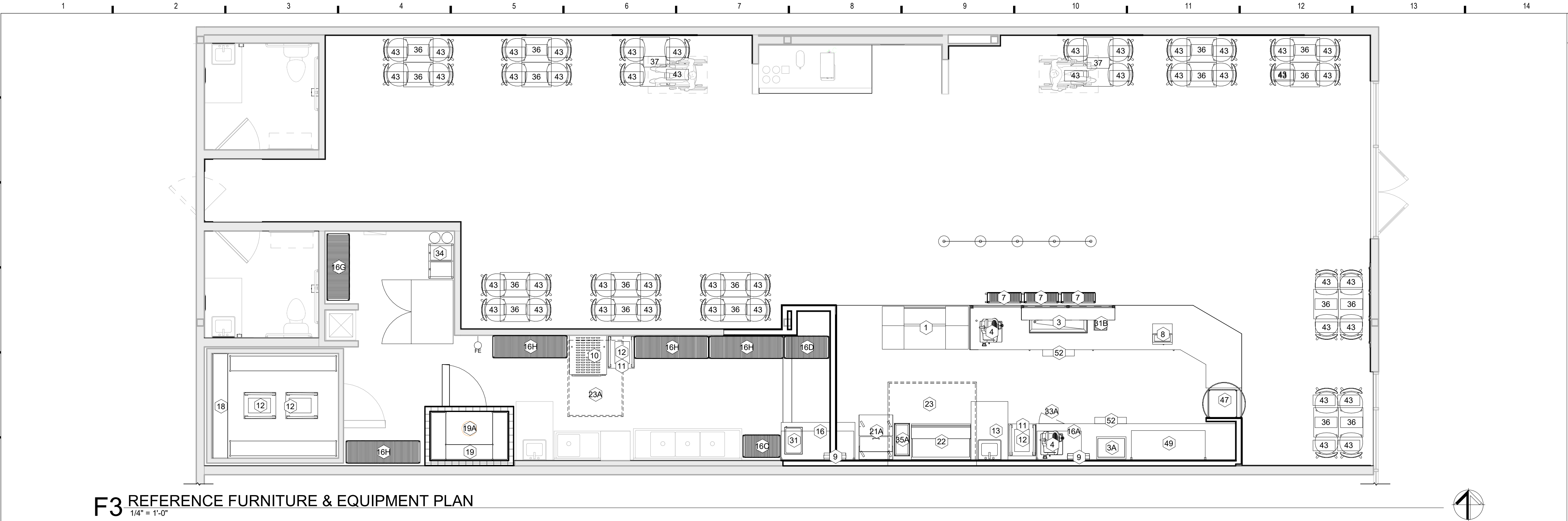
ALL TRAP CONNECTIONS BETWEEN OUTLETS OF FIXTURES AND SOIL OR

Description	Date
<p>These drawings/specifications are the property of Oculux Inc. They are furnished as contract documents only. The drawings and specifications apply only to the contract to which they are affixed, and expressly disclaim any responsibility for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project. Additionally these drawings and details shall in no way convey or imply any type of warranty or certification relating to the performance of products and materials beyond those provided by their respective manufacturer.</p> <p style="text-align: center;">© 2023 Oculux Inc</p>	

**ISSUE
FOR PERMIT**

Client Approval

Plumbing Plan	
Project #	43423-MO11
Issue Date	02/23/2023
Scale	As indicated
Drawn by	JP
Checked by	DN



SHEET NOTES:

- ALL FURNITURE AND EQUIPMENT IS PROVIDED BY THE TENANT. LAYOUT SHOWN TO REFLECT DESIGN INTENT ONLY.
- BLOCKING REQUIRED AT ALL WALL-MOUNTED SHELVING

F3 REFERENCE FURNITURE & EQUIPMENT PLAN
1/4" = 1'-0"

EQUIPMENT SCHEDULE



TYPE MARK	QTY	DESCRIPTION	MANUFACTURER	MODEL	SUPPLIER	POWER REQUIRED	PLUMBING REQUIRED	MISC. NOTES
1	1	6' MEATCASE	HOWARD MCCRAY	SC-CDS34N-6-JM	GRAPHICS CO.	8.7AMP 115V/60/1		
2	1	SNEEZEGUARD	C.R. LAURENCE		GC		C.R. LAURENCE 323-588-1281 X 7710 RICARDO BASULTO	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/60/V		NO DRAIN REQUIRED. OUTLET INSTALLED AT 18" AFF
3A	1	2' DROP IN COLD UNIT	DELFIELD	N8118-EF	ECO	7.5 AMP 115V/60/V		NO DRAIN REQUIRED. OUTLET INSTALLED AT 18" AFF
4	2	SLICER	BIZERBA	GSP-H33 W/LIFT	ECO	120V/60/1		<varies>
5	2	MENU BOARD	JMFS	JMFS	GRAPHICS CO.			ORDERED WITH GRAPHICS PACKAGE
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"
9	2	PARCHMENT HOLDER						
10	1	BREAD OVEN	NUVU	QB 5/ 10 AUTOMIST	ECO	29AMP 208V/1 or 3ph OR 29AMP/1 or 3ph	1/4" SUPPLY LINE	AUTO MISTER NOT OPTIONAL. OUTLET INSTALLED AT 78" AFF
11	36	BREAD PAN	WINCO	ALXP1826	SMALLWARES CO.			
12	4	BREAD RACK	CABRO	UPR1826FHP	FIVE KIDS GROUP, INC.			<varies>
13	1	HAND SINK - WALL HUNG	KROWNE	WM260-JM	ECO		CHG FKL45-4000-RE4 FAUCET	
14	1	3 COMPARTMENT SINK	FIVE KIDS GROUP	FC-3JM-DB	ECO		CHG KL53-1000-AF4 PRE-RINCE SPRAYER/ ADD-A-FAUCET, KL54-8012 AUCET AND D50-7100 LEVER WASTES - QTY 3	
15	1	PREP SINK	FIVE KIDS GROUP	FC-1JM-D	ECO		CHG KL54-8002 FAUCET	ONE COMPARTMENT SINK W/ DRAINBOARD ON EITHER THE LEFT OR RIGHT SIDE
16	1	WIRE SHELVING	METRO		ECO			
16A	1	WALL MOUNT WIRE SHELVING	METRO	24"X36"	ECO			
16C	1	WIRE SHELVING	METRO	18"X30"	ECO			
16D	1	WIRE SHELVING	METRO	18"X36"	ECO			
16G	1	WIRE SHELVING	METRO	18"X54"	ECO			
16H	4	WIRE SHELVING	METRO	18"X 60"	ECO			
19	1	STEP IN FREEZER	NORLAKE	JM7S88-CR-J-36-RCP	ECO	115V FOR LIGHTS AND DOOR HEATER, 15 AMP BREAKER		
19A	1	CAPSUL PACK	NORLAKE	RCPF-100JC-S-4-EV	ECO	208-230/60/1, 14.9 DEFROST AMPS, 8.4 TOTAL SYSTEM AMPS, 14.9 MINIMUM CIRCUIT AMPS, 15 MAX FUSE SIZE		
20	1	MOP SINK		2' X 2'	GC		1/2" SUPPLY, 1 1/2" DRAIN, VENT	
21A	1	SANDWICH UNIT	ENTREE	JM-ST27E-2DX	ECO	115V/60/1		
22	1	GRILLE	IMPERIAL	IR-G48T-XB-JMII	ECO		CONFIRM NATURAL OR LP GAS	
23	1	EXHAUST HOOD SYSTEM & FIRE SYSTEM	CAPTIVE AIRE	ANSUL	ECO	(4) 115V	FIRE SYSTEM ANSUL	
23A	1	CONDENSATE HOOD	CAPTIVE AIRE	5424VHB	ECO	(1) 115V		
25	1	PORTABLE FIRE EXTINGUISHERS			GC			
28	1	ICED TEA BREWER/DISPENSER	BUNN	TB3Q	LUZIANNE	120V, 14.4 AMP		1-800-627-2094. OUTLET INSTALLED AT 42" AFF
30	1	SS. PREP TABLE OR MILLWORK	UNIVERSAL OR GC	KMG-24 -JM	ECO OR GC			
31	1	COUNTER TOP FOOD WARMER	HOSHIZAKI	71001 MODEL 1001	SMALLWARES CO.	120V, 5.8 AMP		OUTLET INSTALLED AT 42"
31B	1	RECESSED BACON WARMER	MARSHALL	JM8001K	FIVE KIDS GROUP, INC.	120V, 3.5 AMP		NO DRAIN. 14/3 CORD WITH NEMA 5-15 PLUG. OUTLET INSTALLED AT 18" AFF.
33A	1	UNDER-COUNTER REFRIGERATOR	HOSHIZAKI	CZ3N-1	ECO	2.6AMPS 5-15P		
34	1	BAG IN BOX SYSTEM	PEPSI	PEPSI	PEPSI	110/120V - 20AMP DUAL OUTLET	1/2" SUPPLY	WATER CONNECTION IS NEEDED FOR THE FILTRATION SYSTEM. OUTLET CAN BE INSTALLED AT 80" AFF
35A	1	SLIM JIM REFUSE CONTAINER	RUBBERMAID	11"x20"	FIVE KIDS GROUP, INC.			
49	1	JUICE SHELVING	METRO		FIVE KIDS GROUP, INC.			
52	1	TROUGH	FRANKLIN SHEET METAL	ZE				24" LONG X 4" WIDE TROUGH WITH SIDE SQUEEGE ATTACHMENT

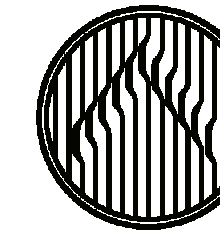
FURNITURE FURNISHED AND INSTALLED BY THE GC.

FURNITURE SCHEDULE



Count	Type Mark	Description	Manufacturer	Model	SUPPLIER	Comments
18	36	TABLE TOP AND BASE	ATS	24"x20"	FURNITURE CO.	ADA COMPLIANT TABLETOP
2	37	TABLE TOP AND BASE	ATS	24"x45"	FURNITURE CO.	ADA COMPLIANT TABLETOP
44	43	CHAIRS - LOW	ATS		FURNITURE CO.	

Oculus Inc.
CONNECT • SHAKE • MOVE



ARCHITECTURE • INTERIOR DESIGN • PLANNING
ONE SOUTH MEMORIAL DRIVE | SUITE 1500 ST. LOUIS, MO 63102 |
(314) 367-6100



JERSEY MIKES - ST. JOSEPH

3608 N. BELT HIGHWAY
ST. JOSEPH, MO 64506

#	Description	Date
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DESIGN INTENT
REFERENCE
ONLY

ISSUE FOR PERMIT

Client Approval

REFERENCE
FURNITURE PLAN

Project # 43423-M001

Issue Date 2/23/2023

Scale 1/4" = 1'-0"

Drawn by UG

Checked by AM/JM

R1.1