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SARPINO'S TENANT FINISH



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HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT ST., KANSAS CITY, MO 64108
816.581.6363

GENERAL PROJECT NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GOVERNING LAWS AND CODES, AND IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION.
- GC TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR ACKNOWLEDGES REVIEW OF CONDITIONS AND INTENT OF ALL CONSTRUCTION DOCUMENTS UPON SUBMITTING BID.
- CALCULATE AND MEASURE REQUIRED DIMENSIONS. DO NOT SCALE DRAWINGS UNLESS OTHERWISE INDICATED. ALL DIMENSIONS TO BE TAKEN FROM DESIGNATED DATUM POINT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION. DETAIL DIMENSIONS TAKE PRECEDENCE OVER PLAN DIMENSIONS.
- ALL ITEMS SUPPLIED BY THE OWNER AND INSTALLED BY THE CONTRACTOR WILL BE COORDINATED BY THE CONTRACTOR FROM DELIVERY TO INSTALLATION.
- DIMENSIONS ON DRAWINGS ARE TO FACE OF STUD AND CENTERLINE OF COLUMNS UNLESS OTHERWISE NOTED.
- THE GENERAL CONTRACTOR (GC, HEREFTER) UPON SIGNING THE OWNER/GC AGREEMENT, ACCEPTS THE CD (INCLUDING THESE DRAWINGS W/ THE INCLUDED NOTES & DESCRIPTIVE MATERIAL) & AGREES TO EXECUTE THE NECESSARY WORK IN MANNER DESCRIBED THEREIN.
 - UPON EXAMINATION / FAMILIARIZATION OF CD & JOB SITE VISIT, ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES AND/OR CONFLICTS NOTED, SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT IN WRITING, FOR CORRECTION.
 - ANY ELEMENT, WHATSOEVER, REQUIRED BY BUILDING TO BE INCORPORATED IN CONSTRUCTION BUT NOT SPECIFIED IN CD SHALL BE BROUGHT TO ATTENTION OF ARCHITECT FOR REVIEW/APPROVAL.

- NO MODIFICATIONS / REVISIONS / CHANGES SHALL BE UNDERTAKEN UNLESS SPECIFICALLY SO INSTRUCTED AND APPROVED BY OWNER.
 - DURING COURSE OF PROJECT, GENERAL CONTRACTOR SHALL MAKE EVERY EFFORT TO FULLY INFORM ALL CONCERNED PARTIES REGARDING DECISIONS/ACTIONS TAKEN WHICH, IN ANY WAY, MIGHT AFFECT ANY SAID CONSTRUCTION CONDITIONS.
- ALL EXISTING HOLES/CRACKS IN SLAB AND THOSE RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE FILLED/REPAIRED AND THE SURFACE PATCHED SMOOTH AND LEVEL WITH ADJACENT FLOOR SURFACE, IN A MANNER ACCEPTABLE TO OWNER AND ARCHITECT
 - GC SHALL BE RESPONSIBLE FOR FIELD MEASURING OF EXISTING CONDITIONS PRIOR TO START OF WORK AND DURING CONSTRUCTION, AS NECESSARY, TO ASSURE CONSTRUCTION ADHERENCE TO DRAWINGS. BY ENTERING INTO A CONSTRUCTION CONTRACT FOR THIS WORK, GC SHALL INDICATE HIS FAMILIARITY WITH THE SITE/FIELD CONDITIONS.
 - ALL "HOLD" DIMENSIONS SHALL BE MONITORED TO ASSURE CORRECTNESS.
 - ANY DIMENSION REVISIONS/MODIFICATIONS ARE TO BE BROUGHT TO ATTENTION OF THE ARCHITECT FOR REVIEW/APPROVAL.
 - ALL VERTICAL DIMENSIONS SHALL BE TAKEN FROM "BENCH MARK" OR OTHER SIMILAR GUIDE ESTABLISHED PRIOR TO START OF CONSTRUCTION. HIGH POINTS, LOW POINTS, IRREGULARITIES IN FLOOR SLAB, PARTICULARLY, WHICH COULD IN ANY WAY AFFECT FABRICATION/INSTALLATION WORK OF OTHER TRADES OR VENDORS (I.E. CABINET CONTRACTORS), SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
 - VARIATIONS IN FLOOR LEVEL IN EXCESS OF 1/2" FOR EVERY 10'-0" IN EVERY DIRECTION WILL REQUIRE LEVELING OF SLAB BY G.C. LEVELING OF SLAB TO BE DONE AS REQUIRED READY TO RECEIVE FLOOR FINISHES, (I.E. VINYL TILE FLOORS, CARPETING, ETC). G.C. TO VERIFY SLAB CONDITION PRIOR TO BID SUBMISSION AND CONTACT LANDLORD.

- GC, SUBCONTRACTORS, AND ALL VENDORS ARE TO VERIFY ALL CLEARANCES (CORRIDORS, STAIRS, ELEVATORS, ETC.) REQUIRED FOR DELIVERIES AND PASSAGE OF ALL JOB MATERIALS/EQUIPMENT.
- ALL NECESSARY WOOD BLOCKING / GROUNDS, ETC., ARE TO BE SUPPLIED AS FIREPROOFED ELEMENTS. GC SHALL FULLY COORDINATE SETTING/PLACEMENT OF THESE ELEMENTS AS REQUIRED BY LOCAL CODE/BUILDING OR SURROUNDINGS.
 - GROUND/BLOCKING MAY NOT BE WHOLLY SHOWN ON DRAWINGS AND GOOD CONSTRUCTION PRACTICE SHALL GOVERN/DETERMINE SAID USE WHERE A QUESTION ARISES.
 - GC TO PAY PARTICULAR ATTENTION TO ALL LOCATIONS OF DRYWALL PARTITION CONSTRUCTION THAT ABUT OR RECEIVE MILLWORK OR CABINET WORK. CONSTRUCTION OF WOOD/GLASS BORROWED LIGHT PARTITIONS AND ADJACENT DRYWALL CONSTRUCTION AS REQUIRED.
- THE CONTRACTOR SHALL INSTALL DUST PROOF CURTAINS BETWEEN THE AREAS TO BE REMODELED AND THE AREAS TO REMAIN UNTIL ALL DUST PRODUCING WORK IS COMPLETED AND ALL DEBRIS IS CLEANED UP.
- PROTECT THE AREAS OF THE BUILDING NOT BEING REMODELED FROM DAMAGE AT ALL TIMES.
- KEEP ACCESS TO EMERGENCY EXITS AVAILABLE AT ALL TIMES
- CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE PROJECT SITE AND DISPOSE IN A LICENSED LANDFILL

GENERAL NOTES

12" = 1'-0"

A.F.F. Acoustical	FOC Face of Concrete	OFF. Office
ACOUS. Acoustical Ceiling	FOF Face of Finish	O.C. On Center
ACT Title	FOS Face of Studs	OPNG. Opening
ADJ. Adjacent, Adjustable	FOW Face of Wall	OPP. Opposite
A/C Air Conditioning	FV Field Verify	O.H. Opposite Hand
ALT. Alternate	FIN. Finish	O.D. Outer Diameter (Dim.)
ALUM. Aluminum	F.A. Fire Alarm	OFD Over Flow Drain
ANG. Angle	F.E. Fire Extinguisher	O.A. Overall
APPROX. Approximate	F.E.C. Fire Extinguisher Cabinet	O.R.D. Overflow Roof Drain
ARCH. Architectural	F.R. Fire Rated, Fire Retardant	PT. Paint
AD. Area Drain	F.S.P. Fire Stand Pipe	PTD. Painted
ASPH. Asphalt	F.V.C. Fire Valve Cabinet	PR. Pair
BSMT. Basement	F.P. Fireproof	PNL. Panel, Panelboard
BM. Beam	FPSC Fireproof Self Closing	PERF. Perforated
BYND. Beyond	FIX, FIXT. Fixture	PERP. Perpendicular
BITUM. Bituminous	FLASH. Flashing	PLAS. Plaster
BLK. Block	FL, FLR. Floor	P-LAM. Plastic Laminate
BLKG. Blocking	F.D. Floor Drain	PL. Plate
BD. Board	FLUOR. Fluorescent	PLYWD. Plywood
BOT. Bottom	FT. Foot, Feet	PT. Point
BO. Bottom of	FTG. Footing	PVC. Polyvinyl Chloride
B.C. Bottom of curb	FDN. Foundation	PSF. Pounds per Sq. Foot
BOS. Bottom of steel	F.A.I. Fresh Air Intake	PC. Precast Concrete
BLDG. Building	F.S. Full Size	PREFAB. Prefabricated
BO. By Others/Owner	F.B.O. Furnished by Others	PRT. Pressure Treated
CAB. Cabinet	FURR. Furring	PROJ. Project
CPT. Carpet	GALV. Galvanize	PROP. Property
C.I.P. Catch-In-Place	G. Gas	QTY. Quantity
C.B. Catch Basin	GA. General Contractor	Q.T. Quarry Tile
CLG. Ceiling	GL. Glass	R. Radius
CEM. Cement	G.F.R.C. Glass Fiber Reinforced Concrete	REF. REF.
CTR. Center Line	G.F.R.G. Glass Fiber Reinforced Gypsum	REIN. Reinforced
C/C Center to Center	GR. Grade	R.C.P. Reinforced Concrete Pipe
CER. Ceramic	GSF. Gross Square Feet	R.A. Relieving Angle
CT. Ceramic Tile	GND. Ground	REQ. Required
C. OF O. Certificate of Occupancy	GYP. Gypsum	R.H. Right Hand
CHAM. Channel	GYP. BD. Gypsum Wallboard	R. Riser
C.O. Cleanout	HDWR. Hardware	RD. Road
CL. Clear	HDWD. Hardwood	R.D. Roof Drain
CLR. Clear	HD. Head	RM. Room
CLOS. Closet	HTR. Heater	R.O. Rough Opening
CW. Cold Water	HVAC. Heating, Venting, Air Conditioning	RB. Rubber Base
COL. Column	HT. Height	SAB. Sound Attenuation Batt
CONC. Concrete	HPC. High Performance Coating	SCHED. Schedule
CMU. Concrete Masonry Unit	H.P. High Point	SEC. Second
CONF. Conference	HWY. Highway	SECT. Section
CONSTR. Construction	H.C. Hollow Core	SHT. Sheet
C.M. Construction Manager	H.M. Hollow Metal	SIM. Similar
CONT. Continuous	HORIZ. Horizontal	S.C. Solid Core
CONTR. Contractor	H.B. Hose Bibb	STC. Sound Transmission Coefficient
C.J. Control Joint	HW. Hot Water	SPKR. Speaker
CONV. Connector	HR. Hour	SPEC. Specification
CG. Guard	IN. * Inside	S.F.P. Spray on Fireproofing
CORR. Corridor	INC. Include	SQ. Square
DB. Degree	I.D. Inside Diameter	S.F. Square Feet
DEG. Department	INSUL. Insulation	S.S. Stainless Steel
DEPT. Dept. Of Building	INT. Interior	ST. Stair
D.O.B. Dept. Of Environmental Protection	JAN. Janitor	STD. Standard
D.E.P. Detail	J.C. Janitor's Closet	STA. Station
DIA. Diameter	J.T. Joint	STL. Steel
DIFF. Diffuser	JST. Joist	STR. Storage
DIM. Dimension	KIT. Kitchen	ST. Street
DW. Dishwasher	K.O. Knock Out	STRUCT. Structural
DISP. Dispenser	LS. Life Safety	SUSP. Suspended
DR. Door	LAM. Laminate, Laminated	SYM. Symmetrical
D.O. Door Opening	LAV. Lavatory	TEL. Telephone
DBL. Double	L.H. Left Hand	T.V. Television
DN. Down	L. Length	TEMP. Temporary
DWG(S) Drawing, Drawings	LT. Light	THK. Thick, Thickness
D.F. Drinking Fountain	L.W. Lightweight	T.&G. Tongue and Groove
EA. Each	L.P. Low Point	T.O. Top Of
EW. Each Way	MH. Manhole	T.O.B. Top Of Beam
E. East	MFR. MANUF. Manufacturer	T.O.C. Top Of Curb
EPDM. Elastomeric Roof Membrane	M.O. Masonry Opening	T.O.S. Top Of Sidewalk
ELECT. Electric, Electrical	MATL. Material	T.O.W. Top Of Wall
ELEC. Electrical	MAX. Maximum	TREAD. Tread
E.P. Electrical Panelboard	MECH. Mechanical	TYP. Typical
EL. Elevation	MEPPF. Mechanical, Electrical, Plumbing, Fire Protection	TW. Through wall
ELEV. Elevator	M.E.R. Mechanical Equipment Room	UNFIN. Unfinished
EMER. Emergency	MDF. Medium Density Fireboard	U.N.O. Unless Noted Otherwise
ENCL. Enclosure	MEMB. Membrane	V.I.F. Verify in Field
EQ. Equal	MTL. Metal	VERT. Vertical
EQ, EQUIP. Equipment	MEZZ. Mezzanine	VEST. Vestibule
EXIST. Existing	MIN. Minimum	V.C.P. Vitrified Clay Pipe
EXP. Expansion Joint	MIR. Mirror	YCT. Vinyl Composition Tile
E.J. Expansion Joint	MISC. Miscellaneous	VVC. Vinyl Wallcovering
EXT. Exterior	MTD. Mounted	W. Water
EIFS. Exterior Insulation Finish System	MTG. Mounting	W.C. Water Closet
	MULT. Multiple	WR. Water Resistant
	N.R.C. Noise Reduction Coefficient	WP. Waterproofing
	NOM. Nominal	WT. Weight
	N. North	WWF. Welded Wire Fabric
	N.A. Not applicable	W. West
	NIC. Not in Contact	W.F. Wide flange
	N.I.C. Not in Contact	W. Width
	NTS. Not to Scale	WIN. Window
	NO. NUM. # Number	W/WO. With, Without
		WD. Wood
	YD. Yard	

DIVISION 01: GENERAL

	DETAIL/ SECTION
	DETAIL REFERENCE
	BUILDING SECTION
	BUILDING ELEVATION REFERENCE
	INTERIOR ELEVATION
	ELEVATION DESIGNATION
	DOOR TAG
	INTERIOR PARTITION TYPE
	ROOM NUMBER DESIGNATION
	GENERAL NOTES
	CONSTRUCTION NOTE
	CENTER LINES OF COLUMN GRIDS
	NEW WALL
	EXISTING WALL

DIVISION 03: CONCRETE

	CAST-IN-PLACE CONCRETE
	PRECAST CONCRETE
	PRECAST CONCRETE WALL
	PRECAST CONCRETE COLUMN
	CAST-IN-PLACE CONCRETE WALL & CAST-IN-PLACE COLUMN

DIVISION 04: MASONRY

	BRICK
	CONCRETE MASONRY UNIT
	CUT STONE
	CAST STONE
	BRICK PAVER
	LIMESTONE
	QUARRY TILE
	GROUT

DIVISION 05: METALS

	STEEL/ IRON (LARGE SCALE)
	ALUMINUM
	OTHER METALS
	WOOD (DIMENSION) (THROUGH MEMBER)
	WOOD (DIMENSION) (INTERRUPTED MEMBER)
	PLYWOOD
	WOOD (FINISH)
	HARDBOARD
	PARTICLE BOARD
	SOLID SURFACE MATERIAL

DIVISION 07: THERMAL & MOISTURE PROTECTION

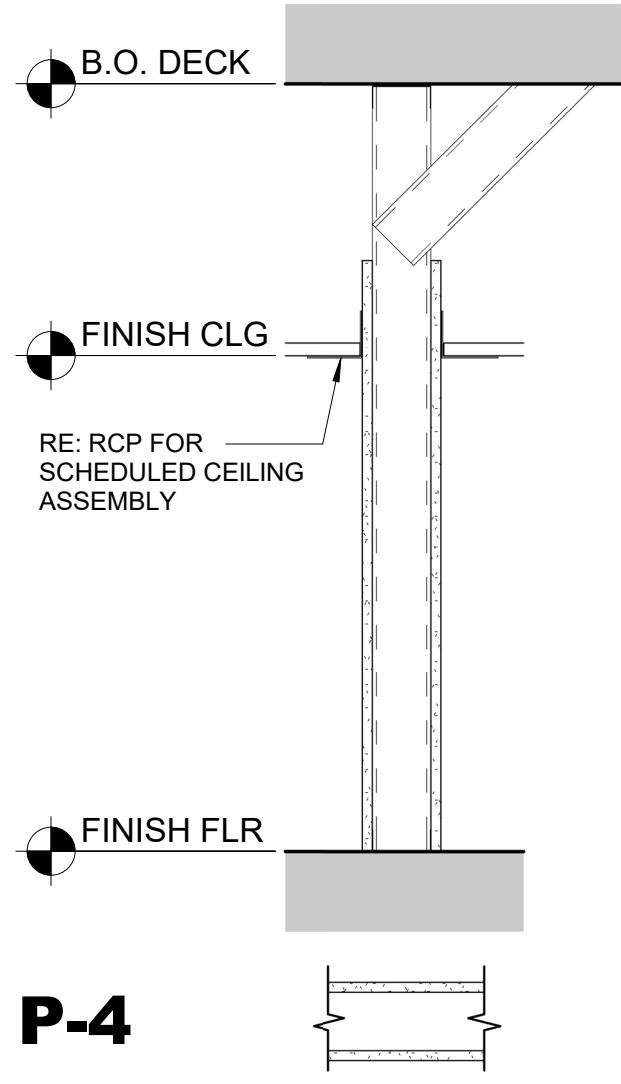
	RIGID INSULATION
	FIRE SAFING INSULATION
	BLANKET INSULATION
	LOOSE FILL INSULATION
	SEALANT W/ BACKER ROD
	MEMBRANE WATERPROOFING & DRAINAGE COMPOSITE
	SPRAY-ON FIREPROOFING

DIVISION 08: DOORS & WINDOWS

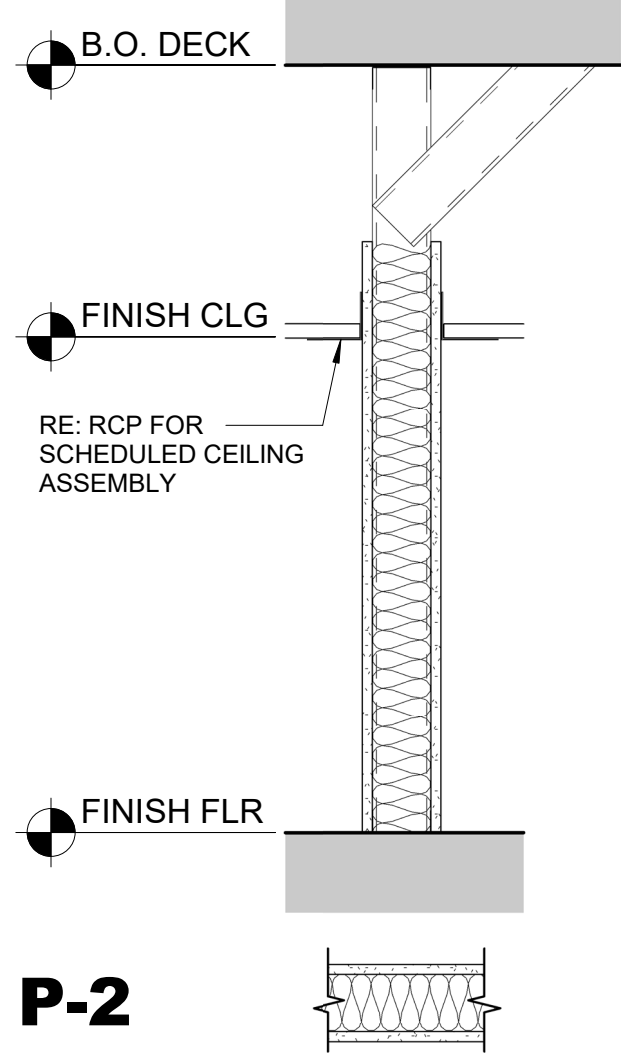
	GLASS INSULATING
	GLASS ELEVATION
	PLASTIC GLAZING
	NEW DOUBLE DOOR
	NEW SINGLE DOOR
	NEW SWINGING DOOR
	NEW DOUBLE ACTING DOOR
	EXISTING DOUBLE DOORS
	EXISTING SINGLE DOOR

DIVISION 09: FINISHES

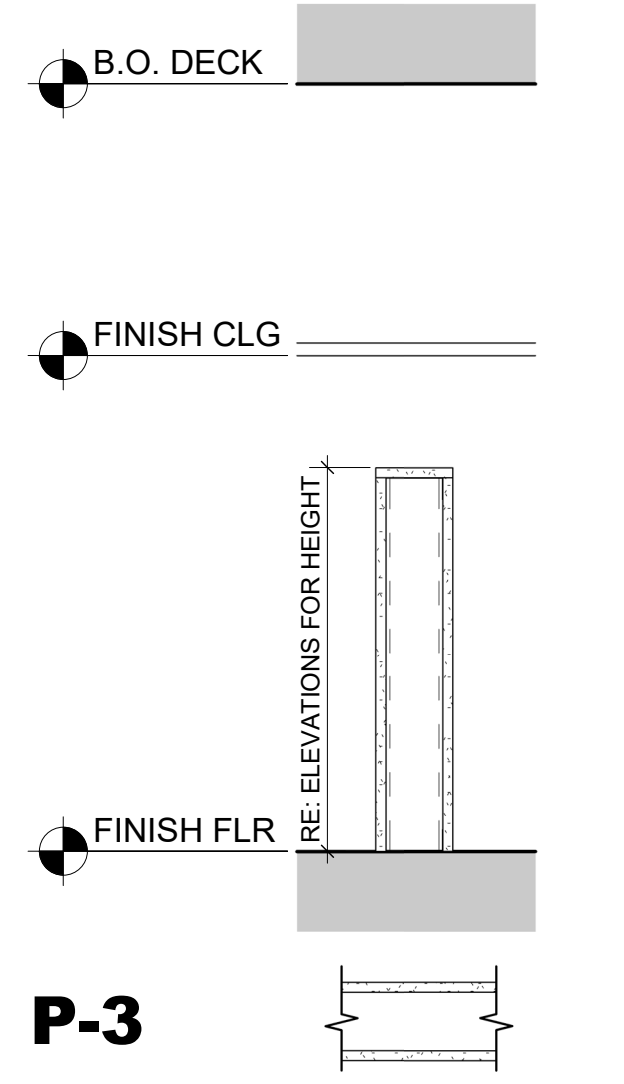
	LATH AND PLASTER
	GYPSUM BOARD
	CERAMIC TILE
	CEILING PANEL
	CARPET



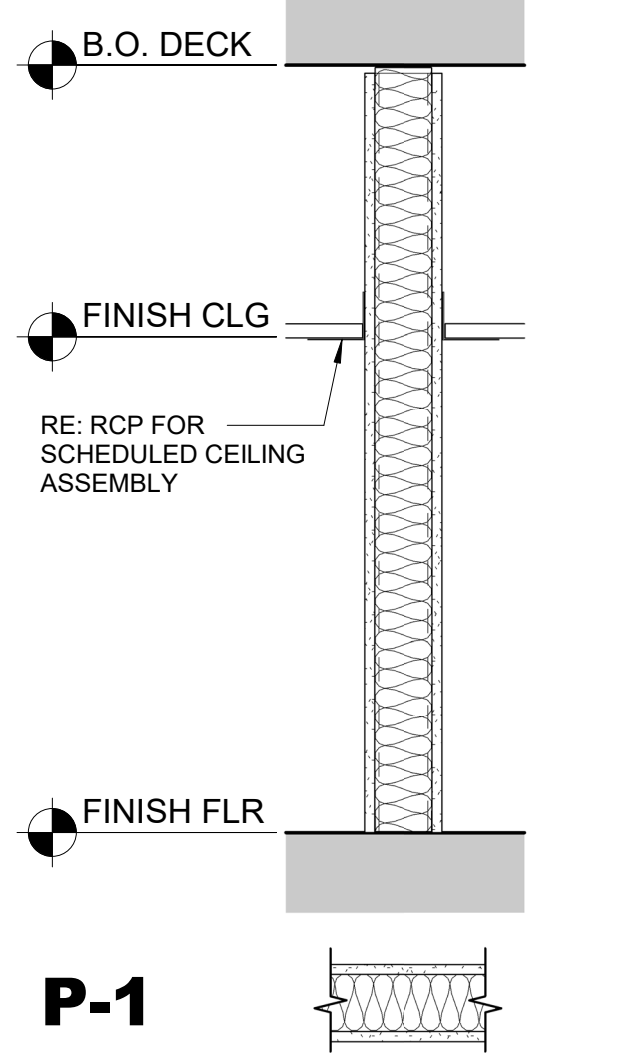
3 5/8" INTERIOR WALL W/ BRACING
(1) LAYER 5/8" GYP. BD. ON EACH SIDE OF 20 GA. 3 5/8" METAL STUDS @ 16" O.C. BRACED TO STRUCTURE ABOVE @ 4'-0" O.C. STOP GYP. BD. 6" ABOVE FINISHED CEILING



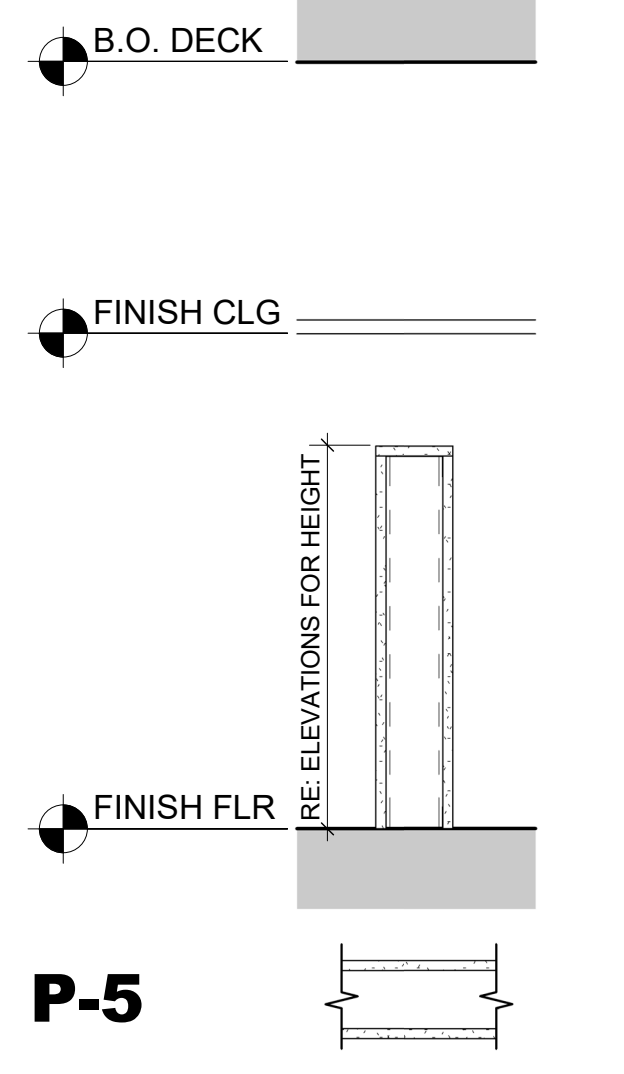
3 5/8" INTERIOR WALL W/ BRACING
(1) LAYER 5/8" GYP. BD. ON EACH SIDE OF 20 GA. 3 5/8" METAL STUDS @ 16" O.C. BRACED TO STRUCTURE ABOVE @ 4'-0" O.C. STOP GYP. BD. 6" ABOVE FINISHED CEILING



UNDER COUNTER PARTITION
WOOD VENEER OVER 3/4" PLYWOOD OVER 5/8" PLYWOOD SUBSTRATE OVER 3-5/8" METAL STUDS @ 16" O.C. DOUBLE STUDS AT BRACKET LOCATION; PAINTED ANGLED METAL BRACKETS SECURED TO STUDS WITH (8) MIN. SCREWS AND 1/2" W/V. CEMENT BOARD ON INSIDE; FASTEN STL. RUNNER TO CONCRETE WITH POWDER-ACTUATED FASTENERS OR CONCRETE SCREWS. STUD GAUGE PER SUPPLIER.



1-HOUR FIRE RATED PARTITION
UL DESIGN U419
APPLY (1) LAYER TYPE X GYP. RATED WALLBOARD TO EXISTING FULL HEIGHT PARTITION TO BRING EXISTING ASSEMBLY UP TO REQUIRED 1-HOUR FIRE RATING; PROVIDE MINERAL WOOL OR GLASS FIBER BATTS FILLING STUD CAVITY



HALF HEIGHT PARTITION
3-5/8" METAL STUDS @ 16" O.C. TO 7'-8" A.F.F. WITH 5/8" GYP. BD. ON BOTH SIDES. STUD GAUGE PER SUPPLIER. FASTEN STL. RUNNER (18 GA.) TO CONCRETE WITH POWDER-ACTUATED FASTENERS OR CONCRETE SCREWS - SEE WALL ELEVATIONS FOR EXACT DIMENSIONS.

SARPINO'S TENANT FINISH

1235 W. HAROLD ST.
OLATHE, KS 66061
HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

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SYMBOLS AND ABBREVIATIONS

sheet number

G001

ABBREVIATIONS

1/4" = 1'-0"

SYMBOLS

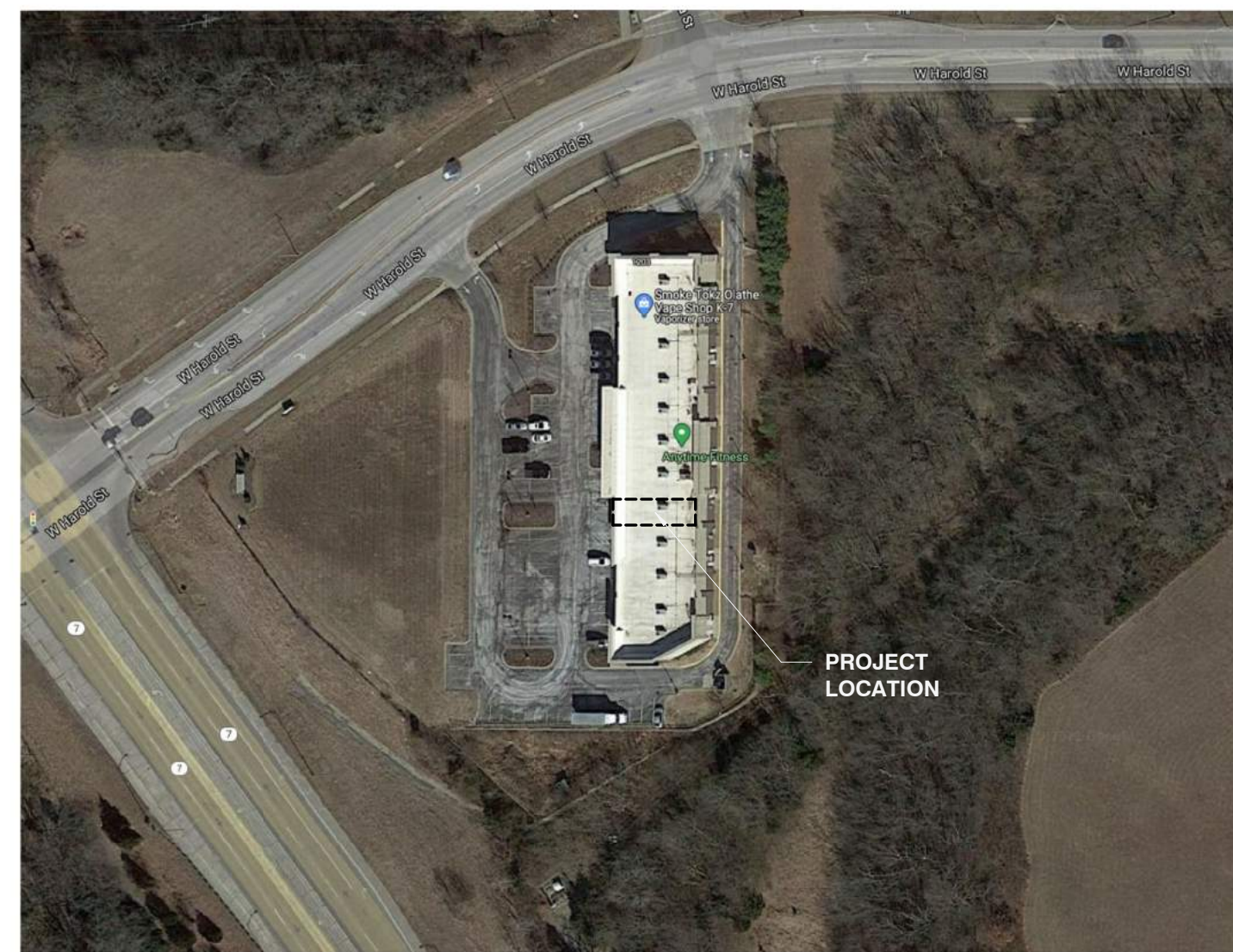
12" = 1'-0"

WALL TYPES

1" = 1'-0"



VICINITY MAP



SITE MAP

CODE INFORMATION SUMMARY:

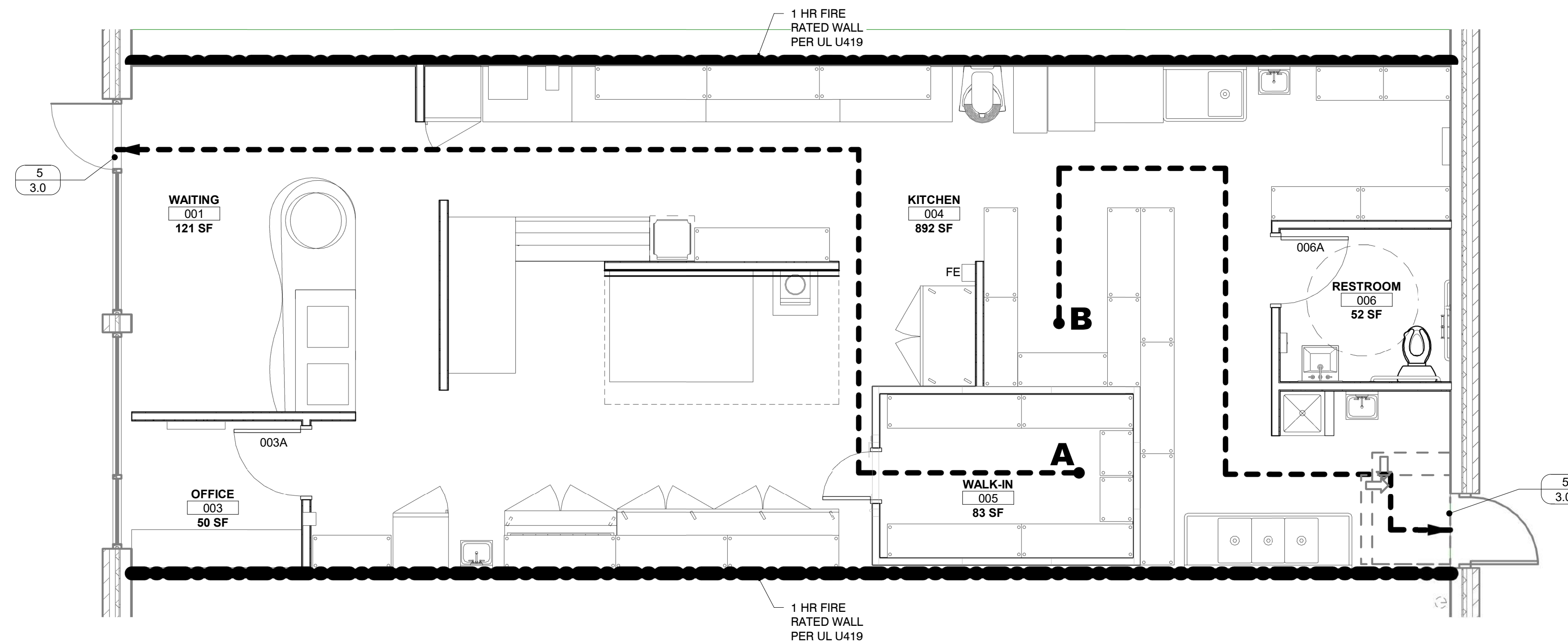
SUBJECT	DATA	REFERENCE
PROJECT DESCRIPTION	RENOVATION OF AN EXISTING ONE STORY RETAIL BUILDING WITHIN THE MEADOWLAND COMMONS RETAIL CENTER	
JURISDICTION	CITY OF OLATHE, KS	
APPLICABLE CODES	2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE 2017 NATIONAL ELECTRICAL CODE - NFPA 70 2018 INTERNATIONAL FIRE CODE 2018 IECC	
ADA STANDARDS	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN	
OCCUPANCY CLASS	B (BUSINESS) (USE A-2 RESTAURANT W/ OCC. LOAD OF LESS THAN 50 PERSONS CLASSIFIED AS A GROUP B OCCUPANCY PER IBC 303.1)	SECTION 303
CONSTRUCTION TYPE	V-B	SECTION 601
FIRE RESISTANCE	STRUCTURAL FRAME	-
	BEARING WALLS, EXT.	-
	NON BEARING WALLS	-
	FLOOR CONSTRUCTION	-
FIRE PROTECTION	ROOF CONSTRUCTION	-
	AUTOMATIC SPRINKLER	-
FIRE PROTECTION	FIRE ALARM SYSTEM	-
	FIRE EXTINGUISHER(S)	REQUIRED
ALLOWABLE HEIGHT AND AREA	-	SECTION 504 & 506
FLOOR AREA (GROSS)	1,500 SF	TABLE 1004.5
OCCUPANT LOAD	1,500 SF / 150 = 10 OCCUPANTS	TABLE 1004.5
EXITS REQUIRED	1	SECTION 1006
EXITS PROVIDED	2	
EXIT ACCESS TRAVEL DISTANCE	300'	SECTION 1016
PLUMBING FIXTURE REQUIREMENT	W. C.: 1 REQUIRED, 1 PROVIDED LAVATORIES: 1 REQUIRED, 1 PROVIDED SERVICE SINK: 1 REQUIRED, 1 PROVIDED	TABLE 2902.1

PLUMBING FIXTURE REQUIREMENT: IBC 2018 TABLE 2902.1

PLUMBING FIXTURE	MALE		FEMALE		TOTAL	
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
WATER CLOSETS	1	1	1	1	-	-
LAVATORIES	1	1	1	1	-	-
DRINKING FOUNTAINS	-	-	-	-	#	#
SERVICE SINKS	-	-	-	-	1	1

EGRESS (MAXIMUM TRAVEL DISTANCE)

TYPE	DISTANCE
Egress Path A	57' - 6"
Egress Path B	40' - 7"



CODE PLAN LEGEND

ROOM OCCUPANT LOAD

- 101 - ROOM NUMBER
- 150 SF - SQUARE FEET OF SPACE OR ROOM
- XXX - ALLOWABLE NUMBER OF OCCUPANTS
- XX - EXIT WIDTH IN DECIMAL FEET
- - 2-HR RATED WALL
- - - - 1-HR RATED WALL
- EXIT WIDTH FACTORS:
STAIRS: 0.3' PER OCCUPANT SERVED
DOORS: 0.2' PER OCCUPANT SERVED
- FIRE DEPARTMENT CONNECTION
- K.B. - KNOX BOX
- F.E.C. - FIRE EXTINGUISHER CABINET
- R.F.A.A.P. - REMOTE FIRE ALARM ANNUNCIATOR PANEL
- F.A.C.P. - FIRE ALARM CONTROL PANEL

CODE INFORMATION

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HIVE DESIGN COLLABORATIVE, INC.
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seal/signature

project number 2021-020

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issued for REVIEW

rev date description

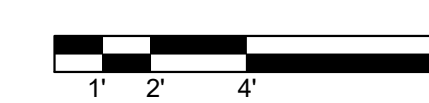
CODE FLOOR PLAN

sheet number

G111

1 CODE PLAN

1/4" = 1'-0"



SECTION 01 10 00 - SUMMARY

- Project Name: SARPINO'S
- Owner's Name:
- Architect's Name: HIVE Design Collaborative, Inc.
- The Project class, specify the location, and the project name.
- Coordinate with Owner / Tenant on all items to be supplied and installed by Owner.
- Coordinate with Owner / Tenant on occupancy requirements during the construction period.
- Coordinate with Owner / Tenant to minimize conflict and to facilitate building operations.
- Coordinate with Owner / Tenant on Utility Outages and Shutdowns.
- Provide access to and from spaces as required by law and by Owner.
- Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
- Do not obstruct roadways, sidewalks, or other public ways without permit.

SECTION 01 20 00 - PRICE AND PAYMENT PROCEDURES

- Coordinate requirements with Owner / Tenant on all pricing and payment procedures.

SECTION 01 30 00 - ADMINISTRATIVE REQUIREMENTS

- Coordinate requirements with Owner / Tenant for progress meetings, construction schedules, shop drawings and submittals.

SECTION 01 40 00 - QUALITY REQUIREMENTS

- For products and workmanship specified by reference to a document or documents not included in these specifications, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- Conform to reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
- Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
- Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from the Contract Documents by mention or inference otherwise in any reference document.
- Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- Comply with manufacturers' instructions, including each step in sequence.
- Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
- Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- Have Work performed by persons qualified to produce required and specified quality.
- Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
- Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and displacement.
- Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
- Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.
- Adjust products to appropriate dimensions; position before securing products in place.
- Replace Work or portions of the Work not conforming to specified requirements.
- If, in the opinion of the Owner or Architect, it is not practical to remove and replace the Work, the Owner or Architect will direct an appropriate remedy or adjust payment.

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

- Coordinate requirements and restrictions with Owner / Tenant on all temporary utilities, facilities, barriers and enclosures as well as security, vehicle access, parking, waste removal and project signs.

SECTION 01 60 00 - PRODUCT REQUIREMENTS

- Product Data Submittals: Submit manufacturers' standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
- Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
- For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.
- Provide new products unless specifically required or permitted by the Contract Documents.
- Where all other criteria are met, Contractor shall give preference to products that are extracted, harvested, and/or manufactured closest to the location of the project, have longer documented life span under normal use, result in less construction waste, and are made of vegetable materials that are rapidly renewable.
- Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
- Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, with no exceptions allowed.
- Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.
- Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
- Transport and handle products in accordance with manufacturer's instructions.
- Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.
- Arrange for the return of packing materials, such as wood pallets, where economically feasible.
- Store and protect products in accordance with manufacturers' instructions.

SECTION 01 70 00 - EXECUTION AND CLOSEOUT REQUIREMENTS

- Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
- Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
- Examine and verify specific conditions described in individual specification sections.
- Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or miscalculation.
- Verify that utility services are available, of the correct characteristics, and in the correct locations.
- Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

PREPARATION

- Clean substrate surfaces prior to applying next material or substance.
- Seal cracks or openings of substrate prior to applying next material or substance.
- Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

GENERAL INSTALLATION REQUIREMENTS

- Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
- Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
- Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
- Make neat transitions between different surfaces, maintaining texture and appearance.

ALTERATIONS

- Adapt existing work to fit new work. Make as neat and smooth transition as possible.
- Patching: Where the existing surface is not indicated to be refinished, patch to match the surface finish that existed prior to cutting. Where the surface is indicated to be refinished, patch so that the substrate is ready for the new finish.
- Where rooms or spaces are indicated to be refinished, refinish all visible existing surfaces to remain to the specified condition for each material, with a neat transition to adjacent finishes.
- Clean existing systems and equipment.
- Do not begin new construction in alterations areas before demolition is complete.

CUTTING AND PATCHING

- Whenever possible, execute the work by methods that avoid cutting or patching.
- Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to specified condition.
- Employ skilled and experienced installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.
- Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.
- Restore work with new products in accordance with requirements of Contract Documents.
- Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 07 84 00, to full thickness of the penetrated element.
- Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, finish to nearest intersection or natural break. For an assembly, refinish entire unit. Match color, texture, and appearance.
- Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to refishing finish.

PROGRESS CLEANING

- Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
- Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

PROTECTION OF INSTALLED WORK

- Protect installed work from damage by construction operations.
- Provide special protection where specified in individual specification sections.
- Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- Provide protective coverings at walls, projections, jams, sills, and soffits of openings.
- Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- Remove protective coverings when no longer needed; reuse or recycle plastic coverings if possible.

ADJUSTING

- Adjust operating products and equipment to ensure smooth and unhindered operation.
- FINAL CLEANING AND CLOSEOUT PROCEDURES
 - Use cleaning materials that are nonhazardous.
 - When necessary, use cleaning materials to remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
 - Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.
 - Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
 - Clean filters of operating equipment.
 - Remove waste, surplus materials, and trash/rubbish; dispose of in legal manner.
 - Coordinate with Owner / Tenant on project closeout procedures.

SECTION 01 79 00 - CLOSEOUT SUBMITTALS

- PROJECT RECORD DOCUMENTS
 - Maintain on site one set of the following record documents; record actual revisions to the Work: Drawings, Addenda, Change Orders and other modifications to the Contract.
 - Ensure entries are complete and accurate, enabling future reference by Owner.
 - Store record documents separate from documents used for construction.
 - Record information concurrent with construction progress.
 - Record Drawings: Legibly mark each item to record actual construction including: Field changes of dimension and detail. Details not on original Contract drawings.

OPERATION AND MAINTENANCE DATA

- For Each Product or System: List names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.
- Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.
- Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.
- Typed Text: As required, supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.

OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

- Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.

OPERATION AND MAINTENANCE MANUALS

- Prepare instructions and data by personnel experienced in maintenance and operation of described products.
- Prepare data in the form of an instructional manual.

WARRANTIES AND BONDS

- Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until the Date of Substantial completion is determined.
- Verify that documents are in proper form, contain full information, and are notarized.
- Co-execute submittals when required.
- Retain warranties and bonds until time specified for submittal.

SECTION 02 41 19 - SELECTIVE STRUCTURE DEMOLITION

- Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
- Obtain required permits.
- Comply with applicable requirements of NFPA 241.
- Provide, erect, and maintain temporary barriers and security devices.
- Conduct operations to minimize effects on and interference with adjacent spaces, structures and occupants.
- Do not close or obstruct roadways or sidewalks without permit.
- Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect existing entrances and exits from damage.
- Do not begin removal until receipt of notification to proceed from Owner.
- Protect existing structures and other elements that are not to be removed.
- Provide bracing and shoring.
- Prevent movement or settlement of adjacent structures.
- Stop work immediately if adjacent structures appear to be in danger.
- If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner.
- Perform demolition in a manner that maximizes salvage and recycling of materials.
- Drawings showing existing construction and utilities are based on casual field observation and existing record documents only. Verify that construction and utility arrangements are as shown. Report discrepancies to Architect before disturbing the structure.
- Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.
- Maintain weatherproof exterior building enclosure except for interruptions required for replacement or modifications; take care to prevent water and humidity damage.
- Remove existing work as indicated and as required to accomplish new work.
- Remove existing systems and equipment as indicated.
- Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components.
- Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in satisfactory condition until new systems are complete and ready for service.
- Verify that abandoned service serve only abandoned facilities before removal.
- Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification.
- Protect existing work to remain.
- Prevent movement of structure, provide shoring and bracing if necessary.
- Perform cutting to accomplish removals neatly and as specified for cutting new work.
- Repair adjacent construction and finishes damaged during removal work.
- Patch as specified for patching new work.
- Remove debris, junk, and trash from site.
- Leave site in clean condition, ready for subsequent work.

SECTION 06 10 00 - ROUGH CARPENTRY

- Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies. If no species is specified, provide any species graded by any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee and who provides grading service for the species and grade.
- Dimension Lumber for Concealed Applications: Nominal sizes as indicated on Drawings, S4S. Moisture Content: S-dry or MC19.
- Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring: S4S, No. 2 or Standard Grade Lumber. Standard or No. 3 Boards.
- Communications and Electrical Room Mounting Boards: PS 1 A-D plywood, or medium density fiberboard, 3/4 inch thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.
- Treated Lumber and Plywood: Comply with requirements of AWP4 U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
- Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements. Kiln dry to maximum moisture content of 19 percent for lumber and 15 percent for plywood. Treat rough carpentry items as indicated.
- Fire Retardant Treatment: Interior Type A: AWP4 U1, Use Category UCFA, Commodity Specification H, low temperature (low hygroscopic) type, chemically treated and pressure impregnated; capable of providing a maximum flame spread rating of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes.
- Prevent exposure to precipitation during shipping, storage, or installation.
- Provide lumber stamped with grade mark unless otherwise indicated.
- Lumber fabricated from old growth timber is not permitted.
- Select material sizes to minimize waste.
- Reuse scrap to the greatest extent possible.
- Provide temporary ventilation during and immediately after installation of treated wood sufficient to remove indoor air contaminants.
- Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.
- In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is explicitly indicated.
- Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is explicitly indicated.
- Communications and Electrical Room Mounting Boards: Secure with screws to studs with edges over firm bearing; space fasteners for interior Glazing or Fire-Rated Glazing on all edges and into studs in field of board. At fire-rated walls, install board over wall board indicated as part of the fire-rated assembly. Where boards are indicated as full floor-to-ceiling height, install with long edge of board parallel to studs. Install adjacent boards without gaps.
- Framing Member Tolerances: 1/4 inch from true position, maximum.
- Variation from Plane (Other than Floors): 1/4 inch in 10 feet maximum, and 1/4 inch in 30 feet maximum.

SECTION 06 20 00 - FINISH CARPENTRY

- Softwood Lumber: As indicated on Drawings, maximum moisture content of 6 percent; with vertical grain, of quality suitable for transparent finish.
- Hardwood Lumber: As indicated on Drawings, maximum moisture content of 6 percent; with vertical grain, of quality suitable for transparent finish.
- Softwood Plywood Not Exposed to View: Any face species, veneer core; PS 1 Grade A-B; glue type as recommended for application.
- Softwood Plywood Exposed to View: Face species as indicated, plain sawn, medium density fiberboard core; glue type as recommended for application.
- Hardwood Plywood: Face species as indicated, plain sawn, book matched, medium density fiberboard core; glue type as recommended for application.
- Particleboard: ANSI A208.1; composed of wood chips, sawdust, or flakes of medium density, made with waterproof resin binders; of grade to suit application; sanded faces.
- Hardboard: AHA A135.4; Pressed wood panel with resin binder, Class 1 - Tempered, 1/4 inch thick, smooth one side (S1S).
- Protect work from moisture damage.
- Quality Grade: Unless otherwise indicated provide products of quality specified by AIIW/AIWMAC/WI Architectural Woodwork Standards for Premium Grade.

- Surface Burning Characteristics: Provide materials having fire and smoke properties as required by authority having jurisdiction.
- Wood fabricated from old growth timber is not permitted.
- Shop assemble work for delivery to site, permitting passage through building openings.
- When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.
- Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.
- Install work in accordance with AIIW/AIWMAC/WI Architectural Woodwork Standards requirements for grade indicated.
- Set and secure materials and components in place, plumb and level.
- Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.
- Maximum Variation from True Position: 1/16 inch.
- Maximum Offset from True Alignment with Abutting Materials: 1/32 inch.

SECTION 06 41 00 - ARCHITECTURAL WOOD CASEWORK

- Quality Grade: Unless otherwise indicated provide products of quality specified by AIIW/AIWMAC/WI Architectural Woodwork Standards for Premium Grade.
- Wood Veneer Faced Cabinets: Premium grade.
- Plastic Laminate Faced Cabinets: Custom grade.
- Protect units from moisture damage.
- During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.
- Wood fabricated from old growth timber is not permitted.
- Adhesive: Type recommended by fabricator to suit application.
- Grommets: Standard plastic grommets for cut-outs, in color as indicated.
- Hardware: BHMA A156.9, types as indicated for quality grade specified.
- Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinate chrome finish, for nominal 1 inch spacing adjustments.
- Drawer and Door Pulls: "U" shaped wire pull, steel with chrome finish, 4 inch centers, unless otherwise indicated on Drawings.
- Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, steel with chrome finish, unless otherwise indicated on Drawings.
- Catches: Magnetic.
- Drawer Slides: Full extension, Static load capacity as required by drawer size, side mounted, steel with polished finish.
- Hinges: European style concealed self-closing type, steel with polished finish, unless otherwise indicated on Drawings.
- Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.

SECTION 07 84 00 - FIRESTOPPING

- Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation.
- Firestopping: Any material meeting requirements.
- Fire Ratings: See Drawings for required systems and ratings.
- Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other matter that could adversely affect bond of firestopping material.
- Remove incompatible materials that could adversely affect bond.
- Install materials in manner described in fire test report and in accordance with manufacturer's instructions, completely closing openings.
- Do not cover installed firestopping until inspected by authority having jurisdiction.
- Install labeling required by code.
- Clean adjacent surfaces of firestopping materials.
- Protect adjacent surfaces from damage by material installation.

SECTION 07 90 05 - JOINT SEALERS

- General Purpose Interior Sealant for interior wall and ceiling control joints, joints between door and window frames and wall surfaces, and other interior joints for which no other type or sealant is indicated: Acrylic emulsion latex; ASTM C834, Type CP, Grade NF single component, paintable.
- Bathroom/Tile Sealant for joints between plumbing fixtures and floor and wall surfaces and joints between kitchen and bath countertops and wall surfaces.: White silicone; ASTM C920, Uses I, M and A; single component, mildew resistant.
- Acoustical Sealant bead between top stud runner and structure and between bottom stud track and floor: Permanently tacky non-hardening butyl sealant.
- Interior Floor Joint Sealant for use at expansion joints in floors: Polyurethane, self-leveling; ASTM C920, Grade P, Class 25, Uses T, M and A; single component.
- Sealants and Primers - General: Provide only products having lower volatile organic compound (VOC) content than required by South Coast Air Quality Management District Rule No.1168.
- Sealant colors to be selected by Architect from manufacturer's standard range.
- Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.
- Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- Perform installation in accordance with ASTM C1193.
- Perform acoustical sealant application work in accordance with ASTM C819.
- Measure joint dimensions and joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer.
- Install bond breaker where joint backing is not used.
- Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- Tool joints concave.
- Protect sealants until cured.

SECTION 08 11 13 - HOLLOW METAL DOORS AND FRAMES

- Steel Door and Frame Manufacturers: Assa Abloy, Stecraff or equal, unless otherwise indicated on Drawings.
- Requirements for All Doors and Frames: Comply with ANSI/ICC A117.1, door top closures flush with top of faces and edges, beveled on both edges, smooth texture, factory primed for field finishing.
- Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings.
- Hardware Preparation: In accordance with BHMA A156.115, with reinforcement welded in place, in addition to other requirements specified in door grade standard.
- Galvanizing for Use in Wet Areas: All components hot-dipped zinc-iron alloy-coated (galvannealed), manufacturer's standard coating thickness.
- Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with all the specified requirements for each type; where two requirements conflict, comply with the most stringent.
- Exterior Steel Doors: ANSI A250.8 Level 3, physical performance Level A, Model 2, seamless. All components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness.
- Interior Steel Doors, Non-Fire-Rated: ANSI A250.8 Level 1, physical performance Level C, Model 2, seamless, 1-3/4 inches thick.
- Interior Steel Doors, Fire-Rated: ANSI A250.8 Level 2, physical performance Level B, Model 2, seamless. Fire Rating as indicated on Door and Frame Schedule, tested in accordance with applicable code. Provide units listed and labeled by UL. Attach fire rating label to each fire rated unit.
- Interior Steel Doors, Sound-Rated: ANSI A250.8 Level 2, physical performance Level B, Model 2, seamless. STC Rating of Entire Door, Frame, and Hardware Assembly as indicated on Drawings, calculated in accordance with ASTM E413, tested in accordance with ASTM E90 or ASTM E1408.
- Interior Door Frames: Fully welded type complying with the requirements of grade specified for corresponding door.
- Frames for Wood Doors: Fully welded type complying with frame requirements specified in ANSI A250.8 for Level 1, 16 gage.
- Frames for Sound-Rated Wood Doors: Fully welded type complying with frame requirements specified in ANSI A250.8 for Level 1, 16 gage.
- Exterior Door Frames: Face welded, seamless with joints filled. All components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness.
- Interior Door Frames, Fire-Rated: Fully welded type, fire rating same as door, labeled.
- Frames for Interior Glazing or Fire-Rated Glazing: Construction and face dimensions to match door frames, unless otherwise indicated on Drawings.
- Removable Stops: Formed sheet steel, mitered corners.
- Silencers: Resilient rubber, fitted into drilled hole; 3 on strike side of single door, 3 on center mullion of pairs, nd 2 on head of pairs without center mullions.
- Temporary Frame Spreaders: Provide for all factory- or shop-assembled frames.
- Primer: Rust-inhibiting complying with ANSI A820.10, door manufacturer's standard.
- Store in accordance with NAAMM HMMMA 840.
- Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion.
- Install in accordance with the requirements of the specified door grade standard and NAAMM HMMMA 840.
- In addition, install fire rated units in accordance with all applicable codes.
- Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner.
- Adjust for smooth and balanced door movement.
- Adjust sound control doors so that seals are fully engaged when door is closed.Test sound control doors for force to close, latch, and unlatch in accordance with ASTM E1408; adjust as required to comply.

SECTION 08 14 16 - FLUSH WOOD DOORS

- Wood Veneer Faced Door Manufacturers: Graham Wood Doors, Eggers Industries or equal, unless otherwise indicated on Drawings.
- All Doors: Premium Grade Quality Level, in accordance with AIIW/AIWMAC/WI Architectural Woodwork Standards. 5-ply or 7-ply Wood Veneer Faced Doors, unless otherwise indicated on Drawings.
- Interior Doors: 1-3/4 inches thick unless otherwise indicated; flush construction. Provide solid core doors at all locations.
- Fire Rated Doors: Tested to ratings indicated on drawings in accordance with jurisdiction having authority; UL or WH (ITS) labeled without any visible seals when door is open.
- Sound Retardant Doors: Minimum STC as indicated on drawings, calculated in accordance with ASTM E413, tested in accordance with ASTM E1408.

- Non-Rated Solid Core and 20 Minute Rated Doors: Particleboard core, Type PC, plies and faces as indicated on Drawings.
- Fire Rated Doors: Mineral core, Type FD, plies and faces as indicated on Drawings, with core blocking as required to provide adequate anchorage of hardware without through-bolting.
- Sound Retardant Doors: Equivalent to Type PC construction with core as required to achieve rating specified; plies and faces as indicated on Drawings.
- Wood Veneer Facing for Transparent Finish: As indicated on Drawings.
- Hardboard Facing for Opaque Finish: AHA A135.4, Class 1 - Tempered, S2S (smooth two sides) hardboard, composition face, 1/8 inch thick.
- Package, deliver and store doors in accordance with specified quality standard.
- Protect doors with resilient packaging sealed with heat shrink plastic. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer. Seal top and bottom edges with tinted sealer if stored more than one week. Break seal on site to permit ventilation.
- Provide manufacturer's warranty for the life of the installation.
- Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.
- Fabricate doors in accordance with door quality standard specified.
- Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.
- Provide edge clearances in accordance with the quality standard specified.
- Install doors in accordance with manufacturer's instructions and specified quality standard. Install fire-rated doors in accordance with NFPA 80 requirements.
- Use machine tools to cut or drill for hardware.
- Coordinate installation of doors with installation of frames and hardware.

SECTION 08 31 00 - ACCESS DOORS AND PANELS

- Manufacturers: Acudor Products Inc, Milcor, or equal.
- Door and Frame Units: Steel factory fabricated, fully assembled units with corner joints welded, filled, and ground flush; square and without rack or warp; coordinate requirements with assemblies units are to be installed in.
- Verify that rough openings are correctly sized and located.
- Install units in accordance with manufacturer's instructions.
- Install frames plumb and level in openings. Secure rigidly in place.
- Position units to provide convenient access to the concealed work requiring access.

SECTION 08 71 00 - DOOR HARDWARE

- Coordinate the manufacture, fabrication, and installation of products onto which door hardware will be installed.
- Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- Convey Owner's keying requirements to manufacturers.
- Provide all hardware specified or required to make doors fully functional, compliant with applicable codes, and secure to the extent indicated. Provide all items of a single type of the same model by the same manufacturer.
- Fire Rated Doors: Tested to ratings indicated on drawings in accordance with jurisdiction having authority; UL or WH (ITS) labeled without any visible seals when door is open.
- Sound Retardant Doors: Minimum STC as indicated on drawings, calculated in accordance with ASTM E413, tested in accordance with ASTM E1408.
- Non-Rated Solid Core and 20 Minute Rated Doors: Particleboard core, Type PC, plies and faces as indicated on Drawings.
- Fire Rated Doors: Mineral core, Type FD, plies and faces as indicated on Drawings; with core blocking as required to provide adequate anchorage of hardware without through-bolting.
- Sound Retardant Doors: Equivalent to Type PC construction with core as required to achieve rating specified; plies and faces as indicated on Drawings.
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- Package, deliver and store doors in accordance with specified quality standard.
- Protect doors with resilient packaging sealed with heat shrink plastic. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer. Seal top and bottom edges with tinted sealer if stored more than one week. Break seal on site to permit ventilation.
- Provide manufacturer's warranty for the life of the installation.
- Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.
- Fabricate doors in accordance with door quality standard specified.
- Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.
- Provide edge clearances in accordance with the quality standard specified.
- Install doors in accordance with manufacturer's instructions and specified quality standard. Install fire-rated doors in accordance with NFPA 80 requirements.
- Use machine tools to cut or drill for hardware.
- Coordinate installation of doors with installation of frames and hardware.

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- Position units to provide convenient access to the concealed work requiring access.

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- Coordinate the manufacture, fabrication, and installation of products onto which door hardware will be installed.
- Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- Convey Owner's keying requirements to manufacturers.
- Provide all hardware specified or required to make doors fully functional, compliant with applicable codes, and secure to the extent indicated.
- Provide all items of a single type of the same model by the same manufacturer.
- Provide products that comply with the following:
 - Applicable provisions of federal, state, and local codes.
 - ANSI/ICC A117.1, American National Standard for Accessible and Usable Buildings and Facilities.
 - Applicable provisions of NFPA 101, Life Safety Code.
 - Fire-Rated Doors: NFPA 80.
 - All Hardware on Fire-Rated Doors: Listed and classified by UL as suitable for the purpose specified and indicated.
 - Hardware for Smoke and Draft Control Doors: Provide hardware that enables door assembly to comply with air leakage requirements of the applicable code.
 - Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated.
 - Electrically Operated and/or Controlled Hardware: Provide all power supplies, power transfer hinges, relays, and interfaces required for proper operation; provide wiring between hardware and control components and to building power connection.
 - Verify that doors and frames are ready to receive work; labeled, fire-rated doors and frames are present and properly installed, and dimensions are as instructed by the manufacturer.
 - Verify that electric power is available to power operated devices and of the correct characteristics.
 - Install hardware in accordance with manufacturer's instructions and applicable codes.
 - Use templates provided by hardware item manufacturer.
 - Do not install surface mounted items until finishes applied to substrate are complete.
 - Install hardware on fire-rated doors and frames in accordance with code and NFPA 80.
 - Mounting heights for hardware from finished floor to center line of hardware item:
 - For steel doors and frames: Comply with DHI "Recommended Locations for Architectural Hardware for Steel Doors and Frames."
 - For wood doors: Comply with DHI "Recommended Locations for Architectural Hardware for Wood Flush Doors."
 - Adjust work under provisions of Section 01 70 00.
 - Adjust hardware for smooth operation.
 - Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

SECTION 08 80 00 - GLAZING

- Single Vision Glazing: Fully tempered float glass, clear tint, 1/4 inch thickness.
 - Applications: All interior glazing unless otherwise indicated.
- Fire-Rated Safety Glazing: Glass-ceramic safety glazing, 1/4 inch thickness, fire rating as indicated on Drawings.
 - Applications: Provide this type of glazing in the following locations:
 - Single Safety Glazing: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings.
 - Applications: Provide this type of glazing in the following locations:
 - Glazed lights in doors, except fire doors.
 - Glazed sidelights to doors, except fire-rated walls and partitions.
 - Other locations required by applicable federal, state, and local codes and regulations.
 - Other locations indicated on the drawing.
 - Float Glass: All glazing is to be float glass unless otherwise indicated.
 - Annealed Type: ASTM C1036, Type 1, transparent flat, Class 1, clear, Quality Q3 (glazing select).
 - Heat-Strengthened and Fully Tempered Types: ASTM C1048.
 - Glass-Ceramic Safety Glazing: UL- or WH-listed as fire-protection-rated glazing and complying with 16 CFR 1201 test requirements for Category

INSTALLATION - INTERIOR DRY METHOD (TAPE AND TAPE)

1. Cut glazing tape to length and set against permanent stops, projecting 1/16 inch (1.6 mm) above sight line.
2. Place setting blocks at 1/4 points with edge block no more than 6 inches from corners.
3. Rest glazing on setting blocks and push against tape for full contact at perimeter of pane or unit.
4. Place glazing tape on free perimeter of glazing in same manner described above.
5. Install removable stop without displacement of tape. Exert pressure on tape for full continuous contact.
6. Knife trim protruding tape.

INSTALLATION - INTERIOR WET METHOD (COMPOUND AND COMPOUND)

1. Install glazing resting on setting blocks. Install applied stop and center pane by use of spacer shims at 24 inch centers, kept 1/4 inch below sight line.
2. Locate and secure glazing pane using glazers' clips.
3. Fill gaps between glazing and stops with grout under until flush with sight line. Tool surface to straight line.

INSTALLATION - PLASTIC FILM

1. Install plastic film with adhesive, applied in accordance with film manufacturer's instructions.
2. Place without air bubbles, creases or visible distortion.
3. Fit tight to glass perimeter with razor cut edge.

CLEANING AND PROTECTION

1. Remove glazing materials from finish surfaces.
2. Remove labels after Work is complete.
3. Clean glass and adjacent surfaces.
4. After installation, mark pane with an "X" by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.

SECTION 08 83 00 - MIRRORS

1. Mirror Glass - General: Select materials and/or provide supports as required to limit mirrored glass deflection to 1/200 or flexure limit of glass with full recovery of glazing materials, whichever is less.
2. Mirror Glass: ASTM C1036, Type 1 transparent flat, Class 1 clear, Quality Q1 (mirror select); silvering, protective coating and physical characteristics complying with ASTM C1503.
3. Install mirrors in accordance with GANA recommendations.
4. Set mirrors plumb and level, free of optical distortion.
5. Set mirrors with edge clearance free of surrounding construction including countertops or backsplashes.
6. Remove wet glazing materials from finish surfaces.
7. Remove labels after work is complete.
8. Clean mirrors and adjacent surfaces.
9. After installation, mark pane with an "X" by using removable plastic tape or paste.

SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES

1. Provide completed assemblies complying with ASTM C840 and GA-216.
2. Interior Partitions indicated as Sound-Rated: STC as indicated calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90.
3. Fire Rated Assemblies: Comply with applicable requirements of ICC IBC or GA-600 for the particular assembly. Provide construction equivalent to that listed for the particular assembly in the current UL Fire Resistance Directory.
4. Manufacturers - Metal Framing, Connectors, and Accessories: Clark/Dietrich, Scasco, or equal.
5. Non-Loadbearing Framing System Components: ASTM C845; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/240 at 5 psf.
6. Studs: "C" shaped with flat or formed webs .
7. Runners: U shaped, sized to match studs.
8. Ceiling Channels: C shaped.
9. Ceiling Hangers: Type and size as specified in ASTM C754 for spacing required.
10. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection using slotted holes, screws and anti-friction bushings, preventing rotation of studs while maintaining structural performance of partition. Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated in accordance with AISI North American Specification for the Design of Cold-Formed Steel Structural Members. Material: ASTM A653/A653M steel sheet, SS Grade 50/340, with G60/Z180 hot dipped galvanized coating. Provide components UL-listed for use in UL-listed fire-rated head of partition joint systems indicated on drawings. Deflection and Firestop Track: Provide mechanical anchorage devices as described above that accommodate deflection while maintaining the fire-rating of the wall assembly.
11. Manufacturers - Gypsum-Based Board: National Gypsum Company, USG Corporation or equal.
12. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place, ends square cut. Application: Use for vertical surfaces and ceilings, unless otherwise indicated. At Assemblies Indicated with Fire-Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed. Thickness: Ceilings: 1/2 inch. Vertical Surfaces: 5/8 inch. Multi-Layer Assemblies: Thicknesses as indicated on drawings.
13. Impact-Rated Wallboard: Tested to Level 3 soft-body and hard-body impact in accordance with ASTM C1629. Application: High-traffic areas indicated. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273. Type: Fire-resistance rated Type X, UL or WH listed. Edges: Tapered. Thickness: 5/8 inch.
14. Backing Board For Wet Areas: Application: Surfaces behind tile in wet areas including tub and shower surrounds and shower ceilings. Glass-Mat-Faced Board: Coated glass mat water-resistant gypsum backing panel as defined in ASTM C1178.
15. Backing Board For Non-Wet Areas: Water-resistant gypsum backing board as defined in ASTM C1396/C1396M; sizes to minimum joints in place; ends square cut. Application: Vertical surfaces behind thinses tile, except in wet areas. Type: Regular and Type X, in locations indicated. Type X Thickness: 5/8 inch. Regular Board Thickness: 5/8 inch. Edges: Tapered.
16. Ceiling Board: Special sag-resistant gypsum ceiling board as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut. Application: Ceilings, unless otherwise indicated. Thickness: 1/2 inch. Edges: Tapered.
17. Acoustical Sound Dampening Wall and Ceiling Board: Two layers of heavy paper faced, high density gypsum board separated by a viscoelastic polymer layer and capable of achieving STC rating of 50 or more in typical stud wall assemblies as calculated in accordance with ASTM E413 and when tested in accordance with ASTM E90. Thickness: 1/2 inch. Long Edges: Tapered. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
18. Acoustic Insulation: ASTM C865; preformed glass fiber, friction fit type, unfaced. Thickness: ___ inch
19. Acoustic Sealant: Non-hardening, non-skinning, for use in conjunction with gypsum board.
20. Joint Materials: ASTM C475 and as recommended by gypsum board manufacturer for project conditions.
21. High Build Drywall Surface: Vinyl acrylic latex-based coating for spray application, designed to take the place of skim coating and separate paint primer in achieving Level 5 finish.
22. Screws for Attachment to Steel Members: Less Than 0.03 inch In Thickness, to Wood Members, and to Gypsum Board: ASTM C1002; self-piercing tapping type.
23. Screws for Attachment to Steel Members From 0.033 to 0.112 inch in Thickness: ASTM C954; steel drill screws for application of gypsum board to loadbearing steel studs.
24. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions.
25. Suspended Ceilings and Soffits: Space framing and furring members as indicated.
26. Studs: Space studs as indicated. Extend partition framing to structure where indicated and to ceiling in other locations.
27. Partitions Terminating at Ceiling: Attach ceiling runner securely to ceiling track in accordance with manufacturer's instructions.
28. Partitions Terminating at Structure: Attach top runner to structure, maintain clearance between top of studs and structure, and connect studs to track using specified mechanical devices in accordance with manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.
29. Openings: Reinforce openings as required for weight of doors or operable panels, using not less than double studs at jambs.
30. Acoustic Insulation: Place lightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.
31. Acoustic Sealant: Install in accordance with manufacturer's instructions. Place one bead continuously on substrate before installation of perimeter framing members. Place continuous bead at perimeter of each layer of gypsum board. In non-fire-rated construction, seal around all penetrations by conduit, pipe, ducts, and rough-in boxes.
32. Board Installation: Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations. Install gypsum board parallel to framing, with ends and edges occurring over firm bearing.
33. Fire-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.
34. Installation on Metal Framing: Use screws for attachment of all gypsum board.
35. Curved Surfaces: Apply gypsum board to curved substrates in accordance with GA-226.
36. Moisture Treatment: Treat cut edges and holes in moisture resistant gypsum board with sealant.
37. Control Joints: Place control joints not more than 30 feet apart on walls and ceilings over 50 feet long, unless otherwise indicated on Drawings:
38. Corner Beads: Install at external corners, using longest practical lengths.
39. Finish gypsum board in accordance with levels defined in ASTM C840.
40. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
41. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.
42. Level 2: In utility areas, behind cabinetry, and on backing board to receive tile finish.
43. Level 1: Fire rated wall areas above finished ceilings, whether or not accessible in the completed construction.
44. Level 0: Temporary partitions and surfaces indicated to be finished in later stage of project.
45. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes. Feather coats of joint compound so that camber is maximum 1/32 inch.
46. Where Level 5 finish is indicated, spray apply high build drywall surface over entire surface after joints have been properly treated; achieve a flat and tool mark-free finish.
47. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet in any direction.

SECTION 09 30 00 - TILING

1. Standard Grout: Any type specified in ANSI A118.6 or A118.7.
 2. Verify that surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive tile.
 3. Verify that concrete sub-floor surfaces are ready for tile installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within limits recommended by tile manufacturer and setting materials manufacturer.
 4. Protect surrounding work from damage.
 5. Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerances.
 6. Prepare substrate surfaces for adhesive installation in accordance with manufacturer's instructions.
 7. Install tile and thresholds and grout in accordance with applicable requirements of ANSI A108.1 through A108.13, manufacturer's instructions, and The Tile Council of North America Handbook recommendations.
 8. Lay tile to pattern indicated. Do not interrupt tile pattern through openings unless otherwise indicated.
9. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.
 10. Place tile joints uniform in width, subject to variance in tolerance allowed in the size. Make joints watertight, without voids, cracks, excess mortar, or excess grout.
 11. Install ceramic accessories rigidly in prepared openings.
 12. Install non-ceramic trim in accordance with manufacturer's instructions.
 13. Install thresholds where indicated.
 14. Sound tile after setting. Replace hollow sounding units.
 15. Keep expansion joints free of adhesive or grout. Apply sealant to joints.
 16. Allow tile to set for a minimum of 48 hours prior to grouting.
 17. Grout tile joints. Use standard grout unless otherwise indicated.
 18. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.
 19. Over interior concrete substrates, install in accordance with The Tile Council of North America Handbook Method F113, dry-set or latex-Portland cement bond coat, with standard grout, unless otherwise indicated.
 20. At tiled shower receptors install in accordance with The Tile Council of North America Handbook Method B415, mortar bed floor, and W244, thin-set with cementitious backer unit walls.
 21. Over gypsum wallboard on wood or metal studs install in accordance with The Tile Council of North America Handbook Method W243, thin-set with dry-set or latex-Portland cement bond coat, unless otherwise indicated.
 22. Do not permit traffic over finished floor surface for 4 days after installation.
- SECTION 09 51 00 - ACOUSTICAL CEILINGS
1. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.
 2. Acoustical Units - General: ASTM E1264, Class A.
 3. Units for Installation in Fire-Rated Suspension System: Listed and classified for the fire-resistive assembly the manufacturer recommends.
 4. Suspension System Manufacturers: Same as for acoustical units indicated on Drawings.
 5. Suspension Systems - General: ASTM C635; die cut and interlocking components, with stabilizer bars, clips, splices, perimeter moldings, and hold down clips as required.
 6. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system fitness requirements as specified.
 7. Perimeter Moldings: Same material and finish as grid.
 8. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.
 9. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
 10. Install after major above-ceiling work is complete. Coordinate the location of hangers with other work.
 11. Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
 12. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
 13. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
 14. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.
 15. Do not eccentrically load system or induce rotation of runners.
 16. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
 17. Use longest practical lengths.
 18. Overlap and rivet corners.
 19. Install acoustical units in accordance with manufacturer's instructions.
 20. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
 21. Fit border trim neatly against abutting surfaces.
 22. Install units after above-ceiling work is complete.
 23. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
 24. Cutting Acoustical Units: Make field cut edges of same profile as factory edges.
 25. Lay acoustical insulation for a distance of 48 inches either side of acoustical partitions as indicated.
 26. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.
 27. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees.
- SECTION 09 65 00 - RESILIENT FLOORING
1. Protect roll materials from damage by storing on end.
 2. Maintain temperature in storage area between 55 degrees F and 90 degrees F.
 3. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.
 4. Vinyl Welding Rod: Solid vinyl bead produced by manufacturer of vinyl flooring for heat welding seams, in color matching field color.
 5. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.
 6. Primers, Adhesives, and Seaming Materials: Waterproof, types recommended by flooring manufacturer.
 7. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.
 8. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.
 9. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for resilient flooring installation by testing for moisture and pH. Test in accordance with ASTM F710.
 10. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.
 11. Prepare floor substrates as recommended by flooring and adhesive manufacturers.
 12. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
 13. Starting installation constitutes acceptance of sub-floor conditions.
 14. Install in accordance with manufacturer's instructions.
 15. Spread only enough adhesive to permit installation of materials before initial set.
 16. Fit joints tightly.
 17. Set flooring in place, press with heavy roller to attain full adhesion.
 18. Where type of floor finish, pattern or color are different on opposite sides of door, terminate flooring under centerline of door.
 19. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
 20. Scribe flooring to walls, columns, cabinets, floor outlets, and other appearances to produce tight joints.
 21. Remove excess adhesive from floor, base, and wall surfaces without damage.
 22. Clean in accordance with manufacturer's instructions.
 23. Prohibit traffic on resilient flooring for 48 hours after installation.
- TILE FLOORING
1. Mix tile from container to ensure shade variations are consistent when tile is placed, unless manufacturer's instructions say otherwise.
 2. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern, unless otherwise indicated on drawings.
- RESILIENT BASE
1. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.
 2. Install base on solid backing. Bond tightly to wall and floor surfaces.
 3. Scribe and fit to door frames and other interruptions.
- SECTION 09 90 00 - PAINTING AND COATING
1. Scope: Finish all interior and exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
 2. Mechanical and Electrical: In finished areas, paint all insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment, unless otherwise indicated on Drawings.
 3. Do Not Paint or Finish the Following Items: Items fully factory-finished unless specifically so indicated; materials and products having factory-applied primers are not considered factory finished. Items indicated to receive other finishes. Items indicated to remain unfinished. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment. Floors, unless specifically so indicated. Ceramic and other tiles. Glass. Acoustical materials, unless specifically so indicated. Concealed pipes, ducts, and conduits.
 4. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
 5. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
 6. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.
 7. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
 8. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
 9. Provide lighting level of 80 ft candles measured mid-height at substrate surface.
 10. Provide all paint and coating products used in any individual system from the same manufacturer; no exceptions.
 11. Provide all paint and coating products from the same manufacturer to the greatest extent possible.
 12. Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.
 13. Provide paints and coatings of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
 14. Supply each coating material in quantity required to complete entire project's work from a single production run.
 15. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.
 16. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.
 17. Volatile Organic Compound (VOC) Content: Provide coatings that comply with the most stringent requirements specified in the following: 40 CFR 59, Subpart D-National Volatile Organic Compound Emission Standards for Architectural Coatings. Architectural coatings VOC limits of State in which the project is located.
 19. Colors: As indicated on Drawings. In finished areas, finish pipes, ducts, conduit, and equipment the same color as the wall/ceiling they are mounted on/under.
 20. Paint for Wood, Opaque: One coat of latex primer sealer. Two coats of latex enamel.
 21. Paint for Wood, Transparent, Varnish, No Stain: One coat sealer.
 22. Paint for Wood, Transparent, Varnish, Stain: Filler coat (for open grained wood only). One coat of stain. One coat sealer. One coat of varnish.
 23. Paint for Concrete/Masonry, Opaque: One coat of block filler. Two coats of alkyl enamel.
 24. Paint for Ferrous Metals, Unprimed: One coat of latex primer. Two coats of latex enamel.
 25. Paint for Ferrous Metals, Primed: Touch-up with latex primer. Two coats of latex enamel.
 26. Paint for Gypsum Board/Plaster: One coat of latex primer. Two coats of latex enamel.

27. Accessory Materials: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required to achieve the finishes specified whether specifically indicated or not, commercial quality.
28. Patching Material: Latex filler.
29. Fastener Head Cover Material: Latex filler.
30. Clean surfaces thoroughly and correct defects prior to coating application.
31. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
32. Remove or mask surface appearances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.
33. Seal surfaces that might cause bleed through or staining of topcoat.
34. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
35. Concrete and Unit Masonry Surfaces to be Painted: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with a solution of tri-sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.
36. Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair.
37. Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
38. Corroded Steel and Iron Surfaces to be Painted: Prepare using at least SSPC-PC 2 (hand tool cleaning) or SSPC-SP 3 (power tool cleaning) followed by SSPC-SP 1 (solvent cleaning).
39. Uncoated Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand or power tool wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint entire surface; spot prime after repairs.
40. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
41. Interior Wood Surfaces to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats.
42. Interior Wood Surfaces to Receive Transparent Finish: Wipe off dust and grit prior to sealing, seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after sealer has dried; sand lightly between coats. Prime concealed surfaces with gloss varnish reduced 25 percent with thinner.
43. Wood Doors to be Field-Finished: Seal wood door top and bottom edge surfaces with clear sealer.
44. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
45. Apply products in accordance with manufacturer's instructions.
46. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
47. Apply each coat to uniform appearance.
48. Sand wood and metal surfaces lightly between coats to achieve required finish.
49. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
50. Wood to Receive Transparent Finishes: Tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.
51. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

- SECTION 10 44 00 - FIRE PROTECTION SPECIALTIES
1. Fire Extinguishers, Fire Extinguisher Cabinets and Accessories: Ansul, Inc. Pyro-Chem, or equal.
 2. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent. Provide extinguishers labeled by UL for the purpose specified and indicated.
 3. Extinguisher Brackets: Formed steel, galvanized and enamel finished.
 4. Install in accordance with manufacturer's instructions.
 5. Install cabinets plumb and level in wall openings, 54 inches from finished floor to inside bottom of cabinet.
 6. Secure rigidly in place.
 7. Place extinguishers and accessories in cabinets and on wall brackets.
- SECTION 12 36 00 - COUNTERTOPS
1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
 2. Quality Standard: Premium Grade, in accordance with AWI/AWMACAWI Architectural Woodwork Standards.
 3. Medium Density Fiberboard for Supporting Substrate: ANSI A208.2.
 4. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.
 5. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
 6. Join lengths of tops using best method recommended by manufacturer.
 7. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or future holes.
 8. Solid Surfacing: Fabricate tops up to 144 inches long in one piece; join pieces with adhesive sealant in accordance with manufacturer's recommendations and instructions.
 9. Wall-Mounted Counters: Provide skirts, aprons, brackets, and braces as indicated on drawings.
 10. Do not begin installation until substrates have been properly prepared.
 11. Verify that wall surfaces have been finished and mechanical and electrical services and outlets are installed in proper locations.
 12. Clean surfaces thoroughly prior to installation.
 13. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
 14. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level, shim where required.
 15. Attach plastic laminate countertops using screws with minimum penetration into substrate board of 5/8 inch.
 16. Seal joint between back/end splashes and vertical surfaces.
 17. Variation From Horizontal: 1/8 inch in 10 feet, maximum.
 18. Offset From Wall, Countertops: 1/8 inch maximum; 1/16 inch minimum.
 19. Field Joints: 1/8 inch wide, maximum.
 20. Clean countertops surfaces thoroughly.
 21. Protect installed products until completion of project.
 22. Touch-up, repair or replace damaged products before Substantial Completion.

- SECTION 10 28 00 - TOILET, BATH, AND LAUNDRY ACCESSORIES
1. Coordinate the work with the placement of internal wall reinforcement, concealed ceiling supports, and reinforcement of toilet partitions to receive anchor attachments.
 2. Grab Bars: Stainless steel, 1-1/4 inches outside diameter, minimum 0.05 inch wall thickness, nonslip grasping surface finish, concealed flange mounting; 1-1/2 inches clearance between wall and inside of grab bar.
 3. Install accessories in accordance with manufacturer's instructions.
 4. Install plumb and level, securely and rigidly anchored to substrate.
 5. Mounting Heights and Locations: As required by accessibility regulations and as indicated on drawings.

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 3. Install accessories in accordance with manufacturer's instructions.
 4. Install plumb and level, securely and rigidly anchored to substrate.
 5. Mounting Heights and Locations: As required by accessibility regulations and as indicated on drawings.



SARPINOS TENANT FINISH

1235 W. HAROLD ST.
OLATHE, KS 66061
HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

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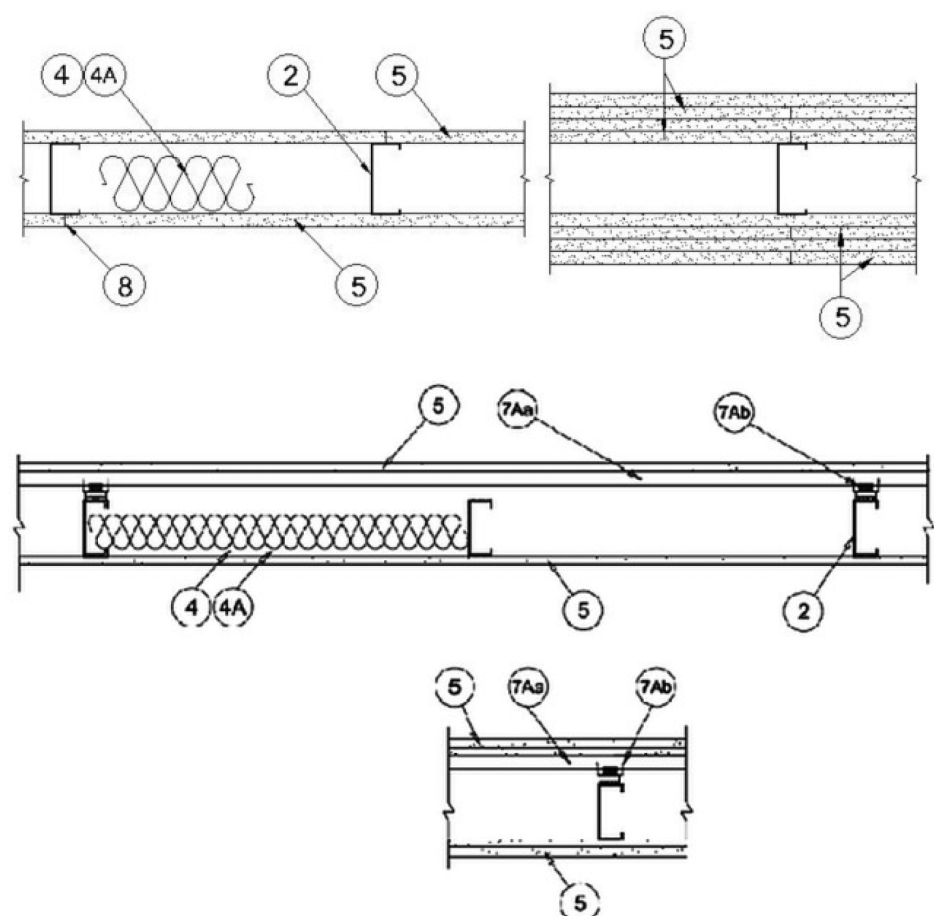
G501

Design No. U419

October 23, 2015

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Floor and Ceiling Runners** — (Not shown) — For use with Item 2; Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC, max.

1A. **Framing Members* - Floor and Ceiling Runner** — (Not shown) - In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC, max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

PHILLIPS MFG CO L L C — Viper25™ Track

1B. **Framing Members* - Floor and Ceiling Runner** — (Not shown) - In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC, max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

PHILLIPS MFG CO L L C — Viper20™ Track

1C. **Framing Members* - Floor and Ceiling Runners** — (Not shown) — In lieu of Item 1 - Channel shaped, attached to floor and ceiling with fasteners 24 in. OC, max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

1D. **Floor and Ceiling Runners** — (Not shown)—For use with Item 2A-Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members* - Floor and Ceiling Runners** — (Not shown, As an alternate to Item 1) — For use with Items 2E, or 5C or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC, max.

CLARKDIERICH BUILDING SYSTEMS — CD ProSTUD

DMFCWS L L C — ProTRAK

HBA METAL FRAMING — ProTRAK

RAN SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. **Framing Members* - Floor and Ceiling Runner** — (Not shown) - In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC, max.

SUPER STUD BUILDING PRODUCTS — The Edge

1G. **Framing Members* - Floor and Ceiling Runner** — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC, max.

STUCCO BUILDING SYSTEMS — CROSTUD Track

1H. **Floor and Ceiling Runners** — (Not shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min depth to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated under Item 11, 0.02 in. galv steel or 0.015 in. galv steel, attached to floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VFI100.

1I. **Framing Members* - Floor and Ceiling Runners** — (Not shown, As an alternate to Item 1) — For use with Item 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC, max.

TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. **Framing Members* - Floor and Ceiling Runner** — (Not shown) - In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC, max.

TELLING INDUSTRIES L L C — Viper20™ Track

1K. **Framing Members* - Floor and Ceiling Runner** — (Not shown) - In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC, max.

BALLEY METAL PRODUCTS LTD — Type PLATINUM PLUS

2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs** — (As an alternate to Item 2, for use with Items 5K, 5L, 5M, 5N and 5O) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 1-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2B. **Framing Members* - Steel Studs** — (As an alternate to Item 2, for use with Items 5K, 5L, 5M, 5N, 5O) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

PHILLIPS MFG CO L L C — Viper25™

3C. **Framing Members* - Steel Studs** — (Not shown) - In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

PHILLIPS MFG CO L L C — Viper20™

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2D. **Framing Members* - Steel Studs** — In lieu of Item 2 - Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2E. **Framing Members* - Steel Studs** — (Not shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or 5J only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIERICH BUILDING SYSTEMS — CD ProSTUD

DMFCWS L L C — ProSTUD

HBA METAL FRAMING — ProSTUD

RAN SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members* - Steel Studs** — (Not shown) - In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* - Steel Studs** — (Not shown) - In lieu of Item 2 - proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in. less than the assembly height.

STUCCO BUILDING SYSTEMS — CROSTUD

2H. **Framing Members* - Steel Studs** — (As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

TELLING INDUSTRIES L L C — TRUE-STD™

2I. **Framing Members* - Steel Studs** — (As an alternate to Item 2, for use with Items 5C or 5L or 5K) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

TELLING INDUSTRIES L L C — Viper25™

2J. **Framing Members* - Metal Studs** — (Not shown) - In lieu of Item 2 - proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

TELLING INDUSTRIES L L C — Viper20™

2K. **Framing Members* - Steel Studs** — As an alternate to Item 2 - For use with Item 1, channel shaped studs, fabricated from min 20 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

EB METAL INC — EB Stud

2L. **Framing Members* - Steel Studs** — As an alternate to Item 2 - For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

OLMAR SUPPLY INC — PRMSTUD

2M. **Framing Members* - Steel Studs** — (As an alternate to Item 2, for use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudLite™

2N. **Framing Members* - Steel Studs** — (As an alternate to Item 2) — For use with Item 1L, channel shaped, min 3-5/8 in. wide, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

BALLEY METAL PRODUCTS LTD — Type PLATINUM PLUS

3. **Wood Structural Panel Sheathing** — (Optional, For use with Item 5 Only) 3-1/2 (Not Shown) - 4 ft wide, 7/16 in. thick exterior strand board (OSB) or 5/8 in. thick structural sheathing (plywood) complying with DOC P33 or P32, or APA Standard PPI-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered over studs, and staggered one stud cavity from wallboard joints. Attached to studs with friction self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC, in the perimeter and 12 in. OC, in the field. Vertical joints staggered one stud cavity from gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets** — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min. thickness as indicated under Item 5. See **Batts and Blankets (BKNV or BZ22) Categories** for names of Classified companies.

4A. **Batts and Blankets** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZ22) Categories** for names of Classified companies.

4B. **Batts and Blankets** — (Optional) — Placed in stud cavities, any 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZ22) Categories** for names of Classified companies.

5. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr	Min Stud Depth, In.	No. of Layers & Thickness of Panel	Min Thickness of Insulation (Item 4)
1	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
4	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCK, SHK, WRX, IP-X1, AR, C, WRX, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

USG HEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCK, SCK, SHK, IP-X1, AR, C, WRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

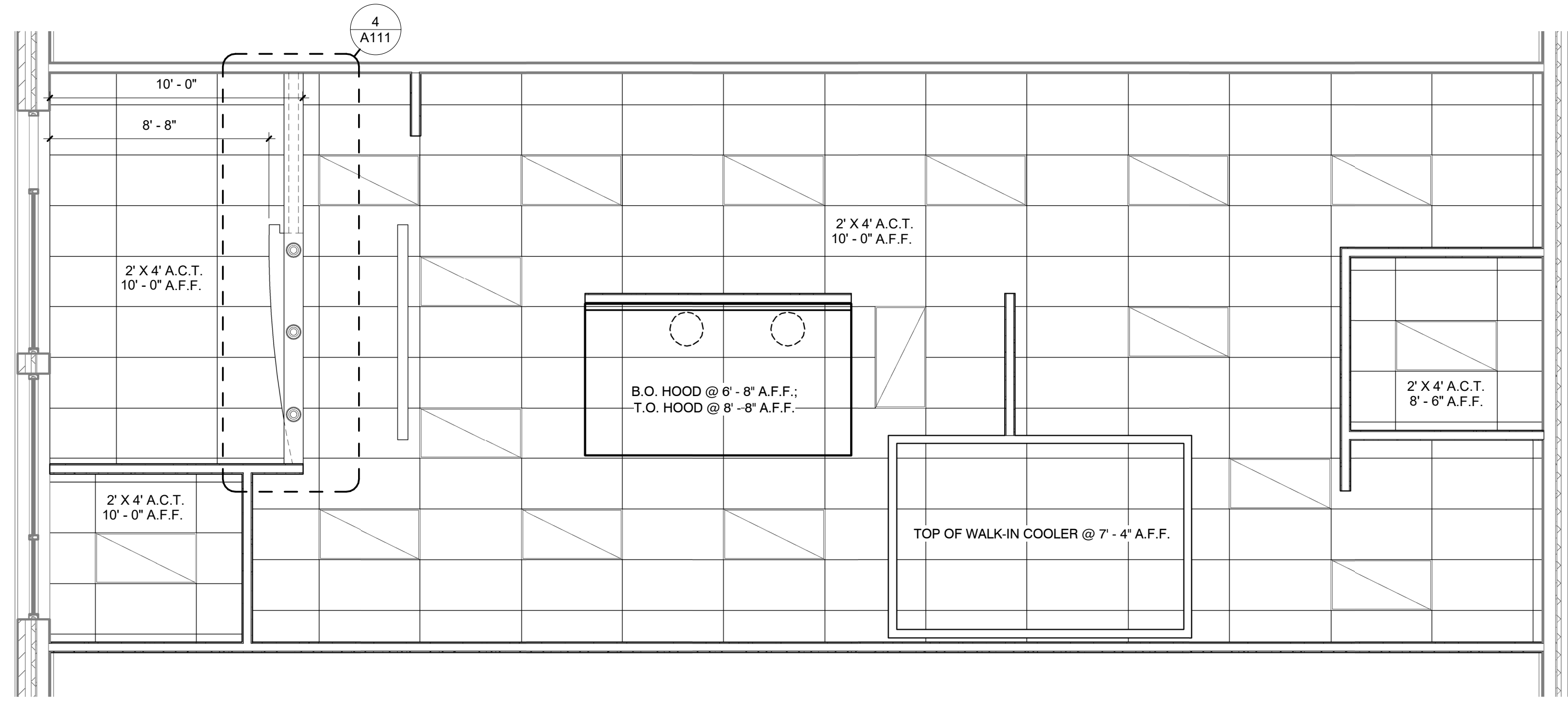
USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C, 5/8 in. Types C, SCK

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CGC INC — Type SCK.

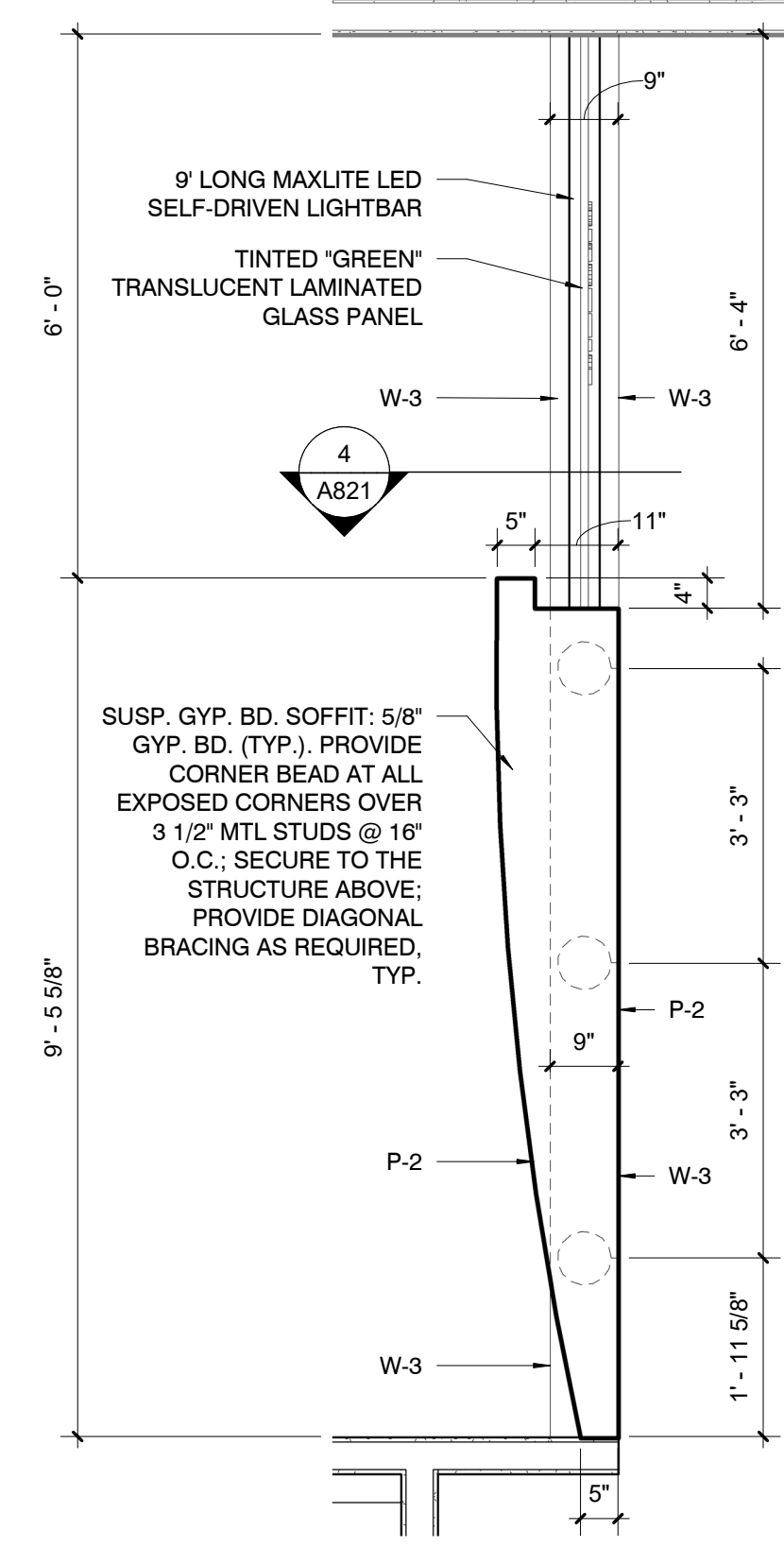
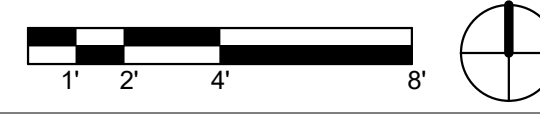
UNITED STATES GYPSUM CO — Type SCK, SCK.

USG BORAL ZAWAWI D



5 REFLECTED CEILING PLAN

1/4" = 1'-0"



4 DECORATIVE SOFFIT PLAN

1/2" = 1'-0"

ACCESSIBILITY NOTES:

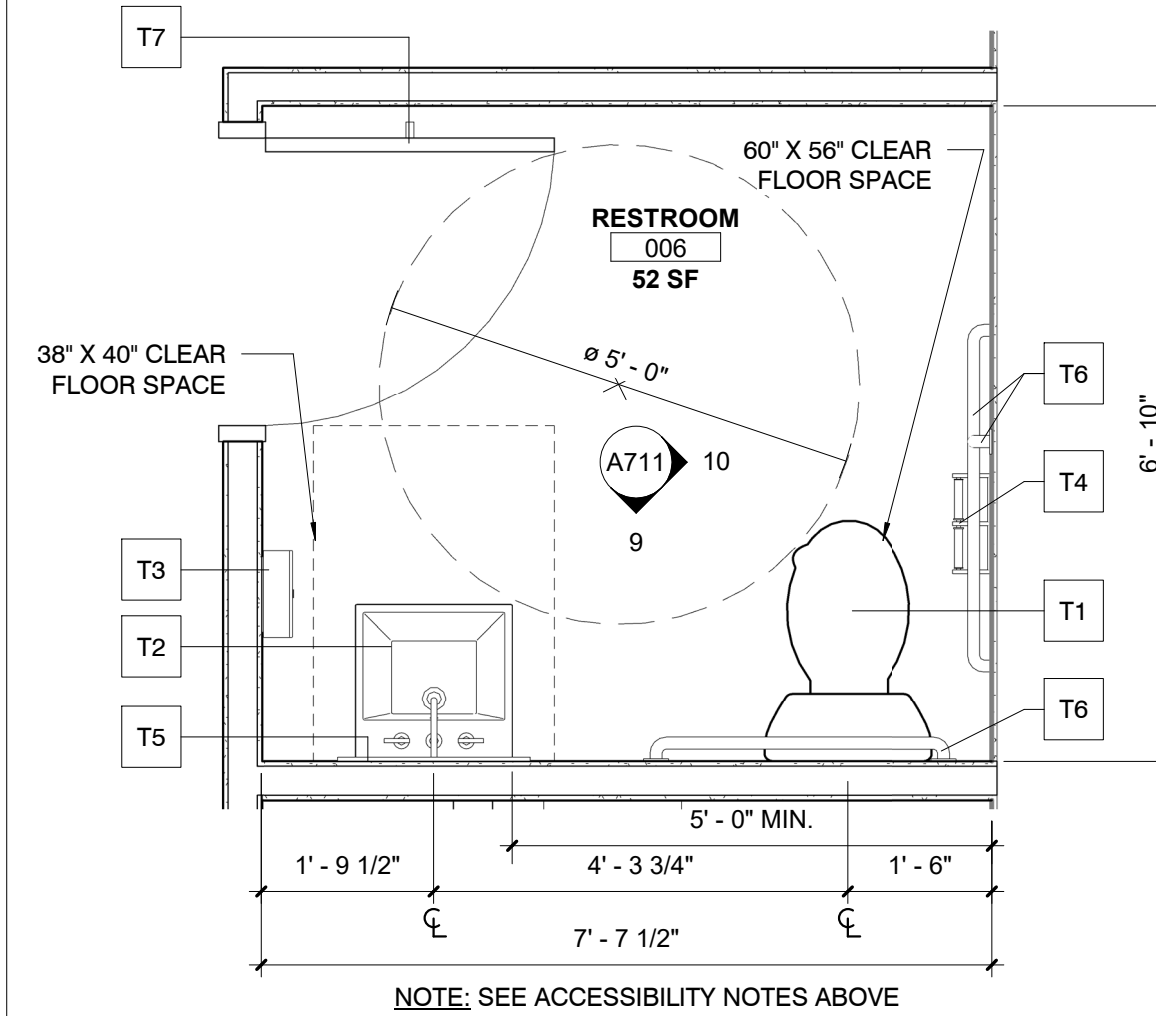
- ALL CONTROLS, SWITCHES, ETC AND OPERABLE PARTS MUST FULLY COMPLY TO ICC/ANSI SEC. 309 WITH CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 AND SHALL BE BETWEEN 15" MIN. AND 48" MAX FOR UNOBSTRUCTED SIDE REACH AND 44" MAX FOR OBSTRUCTED HIGH FORWARD REACH WITH MAX REACH DEPTH 25" MAX. DOOR HARDWARE FOR ALL COMMON SPACE AREAS AND HAZARDOUS AREAS MUST COMPLY TO ICC/ANSI SEC. 404.2.6 - HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE. OPERABLE PART OF HARDWARE SHALL BE 34" MIN. AND 48" MAX. A.F.F.
- PIPE INSULATION - EXPOSED PIPES AND SURFACES MUST COMPLY TO ICC/ANSI SEC 606.6 - WATER SUPPLY AND DRAINPIPES 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.
- ACCESSIBLE SIGNAGE LOCATION SHALL FULLY COMPLY TO ICC/ANSI SEC. 703.3.11 AND 703.3.10 IT SHALL BE MOUNTED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR, OR TO THE RIGHT OF RIGHT-HAND DOOR AT DOUBLE DOORS. HEIGHT ABOVE THE FLOOR - 48" A.F.F. MIN MEASURED TO THE BASELINE OF THE LOWEST TACTILE CHARACTERS, CENTERLINE OF THE SIGN.
- FLOOR SURFACES TO COMPLY TO ICC/ANSI SEC. 302 - FLOOR SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT, AND SHALL COMPLY WITH SECTION 302. CHANGES IN LEVEL IN FLOOR SURFACES SHALL COMPLY WITH SECTION 303.

GENERAL NOTES - FLOOR PLANS:

- THE NOTES WRITTEN BELOW ARE FOR GENERAL INFORMATION AND CLARITY AND MAY COMPLEMENT OTHER SPECIFIC INSTRUCTIONS WRITTEN IN THE DRAWINGS AND SPECIFICATIONS. COMPLY AS FOLLOWS: SPECIAL CARE SHALL BE GIVEN TO PROVIDING SUFFICIENT BLOCKING FOR ALL ITEMS FASTENED TO STUD WALLS AND ALSO FOR FASTENING WOOD TRIM. THE CONTRACTOR SHALL ALSO REVIEW ALL DETAILS SHOWN FOR BLOCKING REQUIREMENTS AND ADD ANY BLOCKING REQUIRED FOR PROPER ANCHORAGE EVEN THOUGH NOT SPECIFICALLY SHOWN.
- ALL SYSTEMS THAT ARE SUSPENDED FROM ABOVE MUST BE ANCHORED TO STRUCTURE.
- FLOORING/FINISHES SHALL BE INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER.
- PROVIDE CLEAN, DRY CONDITION AND A SURFACE FREE FROM IMPERFECTIONS AND UNEVENNESS PRIOR TO INSTALLATION OF NEW FLOORING. FILL MINOR IMPERFECTIONS WITH NON-SHRIK, NON-GYMPSUM, NON-LIME, LEVELING MATERIAL PRIOR TO STRIPS AT ALL LOCATIONS WHERE EDGE OF TILE/PLANKS WOULD OTHERWISE BE EXPOSED. UPON COMPLETION OF INSTALLATION, LEAVE IN SATISFACTORY CONDITION.
- ALL NEW GLASS INSTALLED AS PART OF THIS WORK SHALL BE TEMPERED WHERE REQUIRED BY LOCAL CODE OR SAFETY STANDARDS.
- FINISH WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCAL CODES.
- ALL INTERIOR FINISHES OF WALL AND CEILING SHALL BE NOT LESS THAN CLASS B.
- VERIFY INSTALLATION DETAILS AND PLACEMENT LOCATION WITH EQUIPMENT MFR. PRIOR TO INSTALLATION.
- CONFIRM LOCATIONS OF FIRE EXTINGUISHERS WITH LOCAL FIRE INSPECTOR. FIRE EXTINGUISHERS PER 2015 IFC SECTION 906 INCLUDING TYPE K FOR THE KITCHEN.
- PROVIDE KEY FOR EMERGENCY USE ONLY IS TO BE PLACED IN BUILDING KNOX BOX.
- CONTRACTOR TO VERIFY IN FIELD THAT ALL JOINTS, PENETRATIONS, DOORS AND WINDOWS ARE CAULKED, GASKETED, WEATHER-STRIPPED, OR OTHERWISE SEALED.

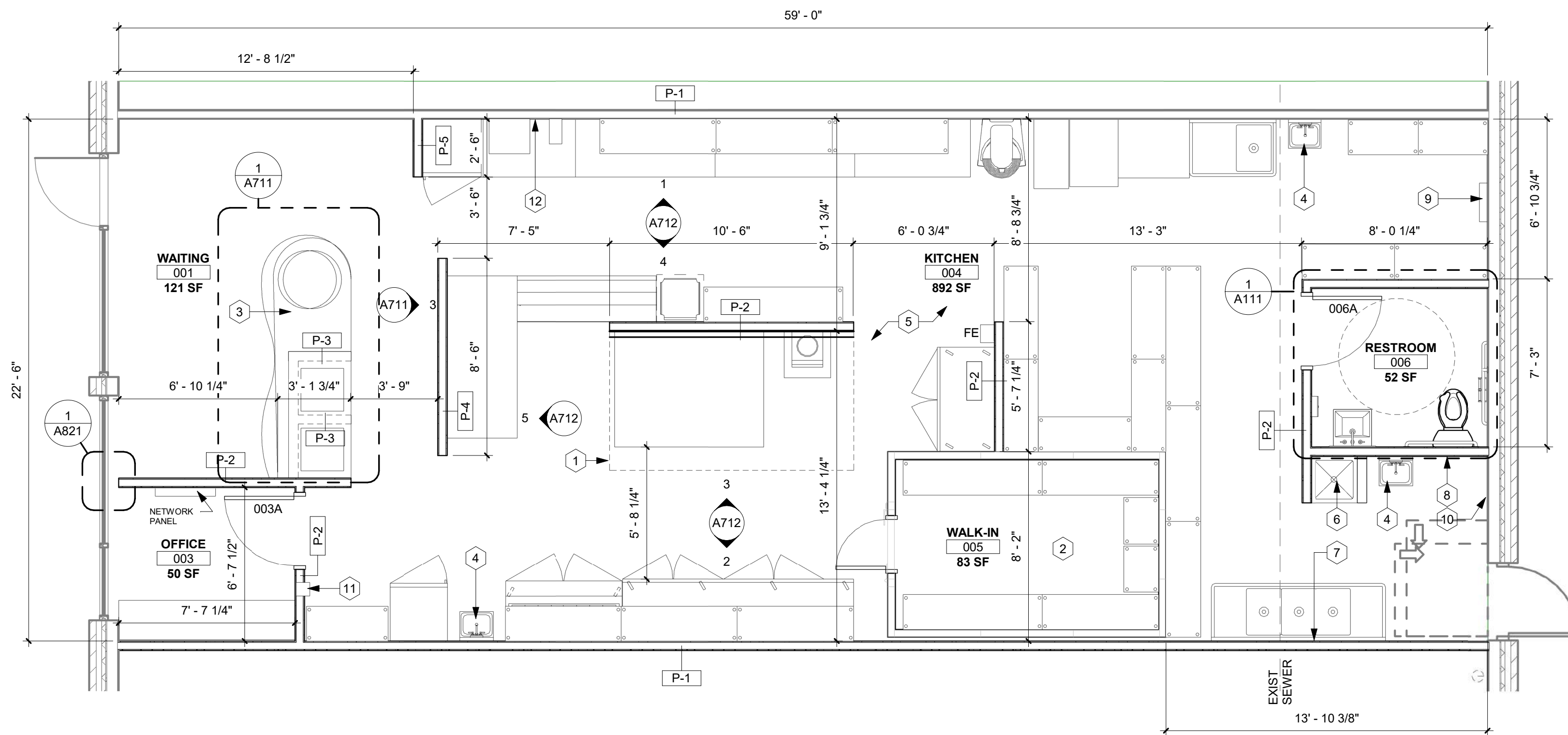
FLOOR PLAN KEY NOTES:

- LINE OF KITCHEN HOOD ABOVE
- WALK-IN COOLER PER EQUIPMENT PLAN
- FRONT COUNTER PER DETAILS. PROVIDE ADDITIONAL SUPPORT AT EMPLOYEE SIDE OF COUNTER. PROVIDE UNDERCOUNTER SHELVING; SHELVING TO BE CHROME (SEE EQUIP. LIST). PROVIDE WIREMOLD AND MOUNTED BRACKETS AS REQUIRED FOR COMPUTERS AND CASH BOX INSTALLATION (F.V.)
- PROVIDE REQUIRED PLUMBING FOR HAND SINK; REF. PLUMBING DWGS.
- ALL EQUIPMENT BY OTHERS PER EQUIPMENT PLAN.
- MOP BASIN PER EQUIPMENT SCHEDULE
- PROVIDE REQUIRED PLUMBING FOR 3 COMPARTMENT SINK; REF. PLUMBING DWGS.
- HEAVY DUTY BROOM RACK (NO. B223-24 BY BOBRICK OR EQ.) VERIFY LOCATION WITH OWNER BEFORE INSTALLING
- NEW ELECTRICAL PANEL; RE: ELECTRICAL DWGS.
- INSTALL WALL MOUNTED CAR TOPPER CHARGING STATION. PROVIDE BLOCKING AND ELECTRICAL AS REQUIRED
- SECURITY BOX BUILT INTO WALL. VERIFY LOCATION WITH TENANT PRIOR TO INSTALLATION.
- WALL MOUNTED TV/MONITORS - PROVIDE BLOCKING AND REQUIRED ELECTRICAL AND DATA. VERIFY FINAL LOCATION WITH OWNER.



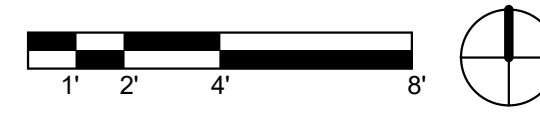
1 ENLARGED RESTROOM PLAN

1/2" = 1'-0"



2 FLOOR PLAN

1/4" = 1'-0"



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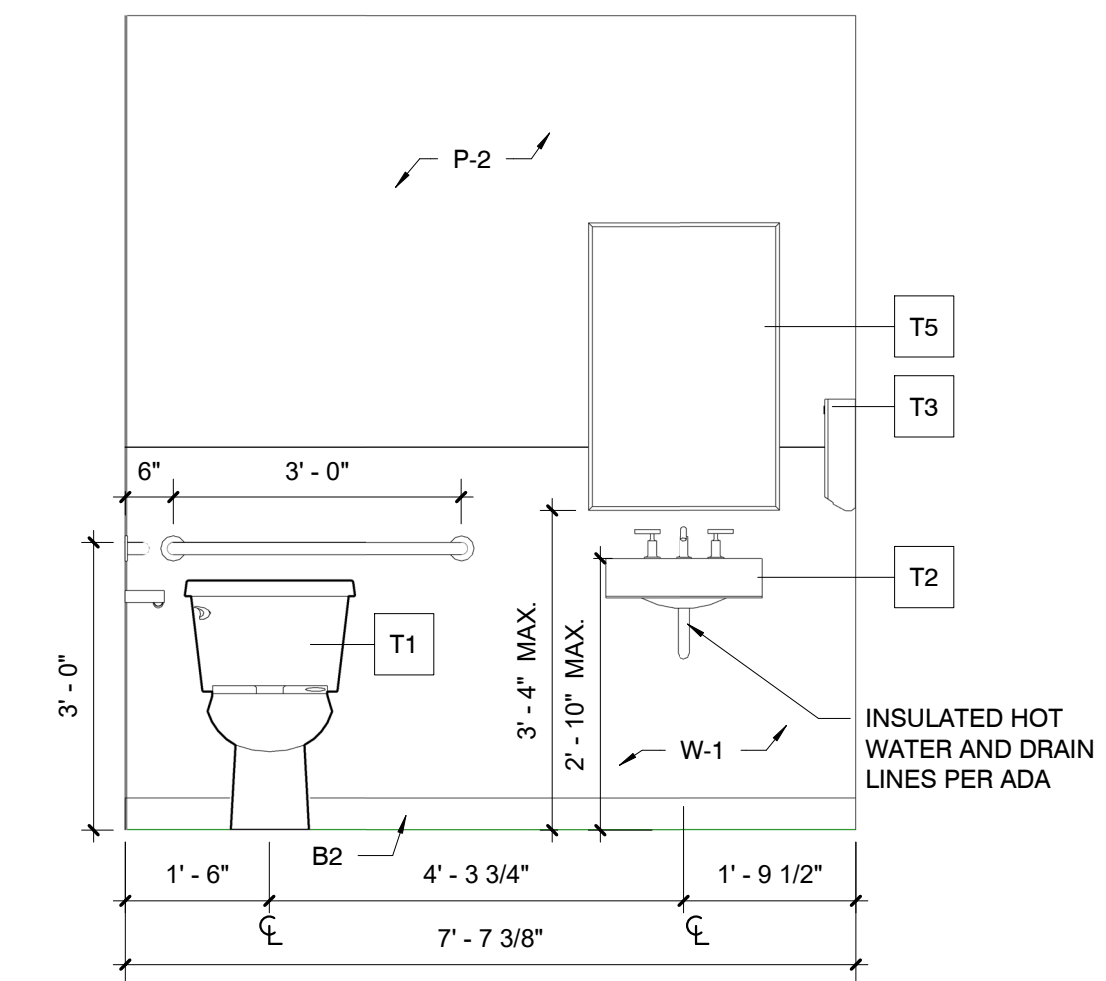
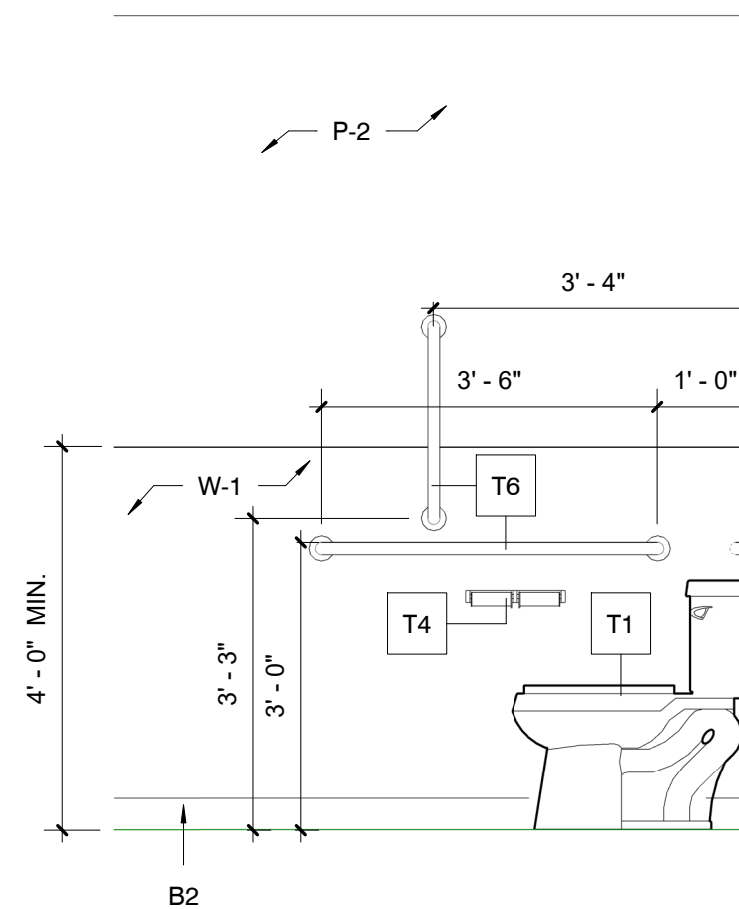
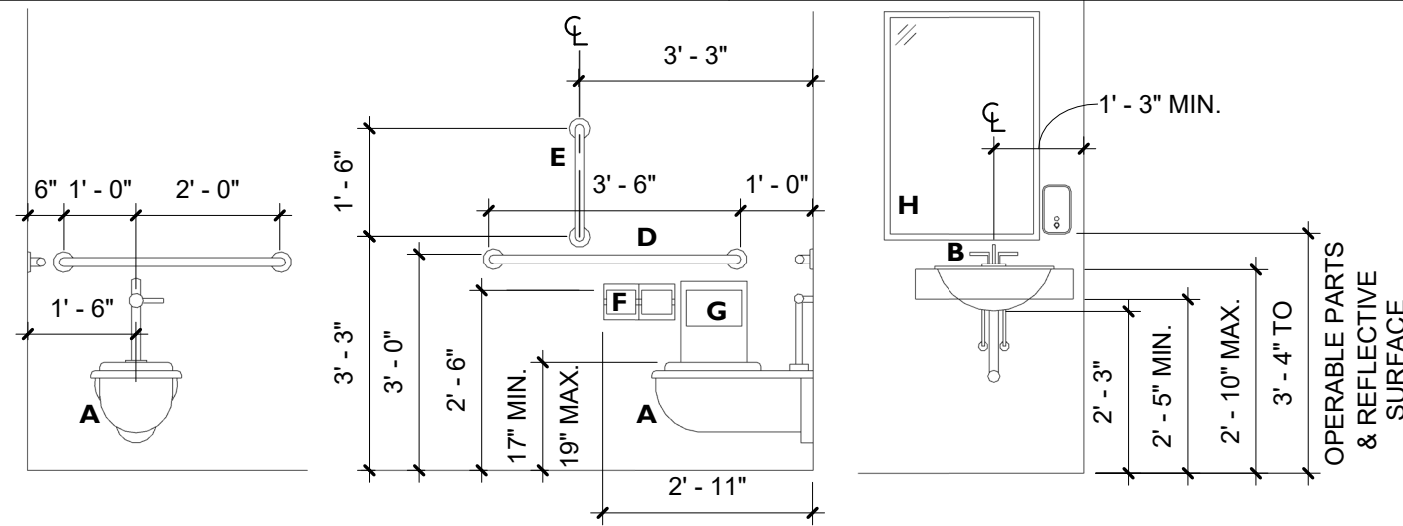
FLOOR &
CEILING
PLANS

sheet number

A111

RESTROOM ACCESSORIES SCHEDULE		
MARK	DESCRIPTION	MODEL
T1	ADA COMPLIANT ELONGATED BOWL TANK TYPE TOILET WC-1	SEE PLUMBING DWGS.
T2	ADA COMPLIANT LAVATORY L-1	SEE PLUMBING DWGS.
T3	PAPER TOWEL DISPENSER	BOBRICK B2620 OR EQ.
T4	TOILET PAPER DISPENSER	BOBRICK B274 OR EQ.
T5	CHANNEL FRAME MIRROR	24"X36", BOBRICK B165 OR EQ.; BOTTOM EDGE MTD. 40" AFF MAX.
T6	1-1/2" DIA. GRAB BARS (42" LONG BACK WALL, 36" SIDE WALL)	18 GA. SS, TEXTURED GRIP SURFACE W/ CONCEALED MTD., BOBRICK B6806 OR EQ.
T7	COAT HOOK	BOBRICK B682 OR EQ.
T8	SANITARY NAPKIN DISPOSAL	BOBRICK B254 OR EQ.
T9	FLOOR-STANDING SS WASTE RECEPTACLE W/ LID	BOBRICK B2250 OR EQ.

- LEGEND**
- A. WATER CLOSET
 - B. LAVATORY
 - C. 36" GRAB BAR
 - D. 42" GRAB BAR
 - E. 18" GRAB BAR
 - F. TOILET PAPER DISPENSER
 - G. SANITARY NAPKIN DISPOSAL
 - H. MIRROR



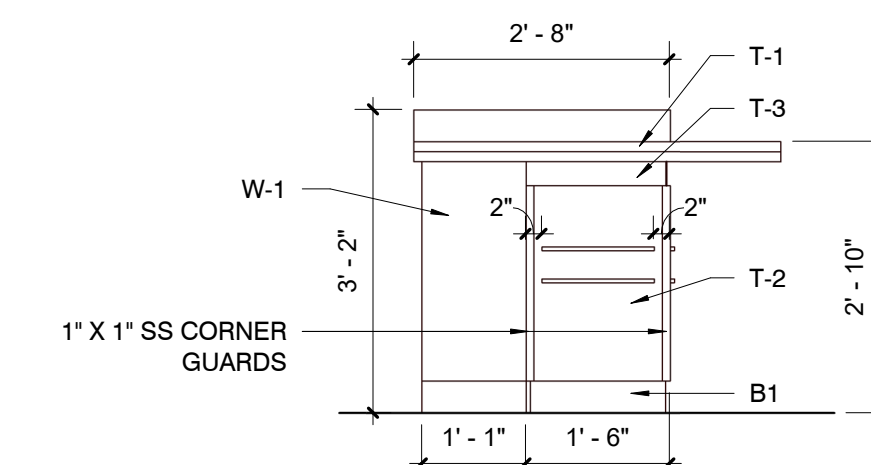
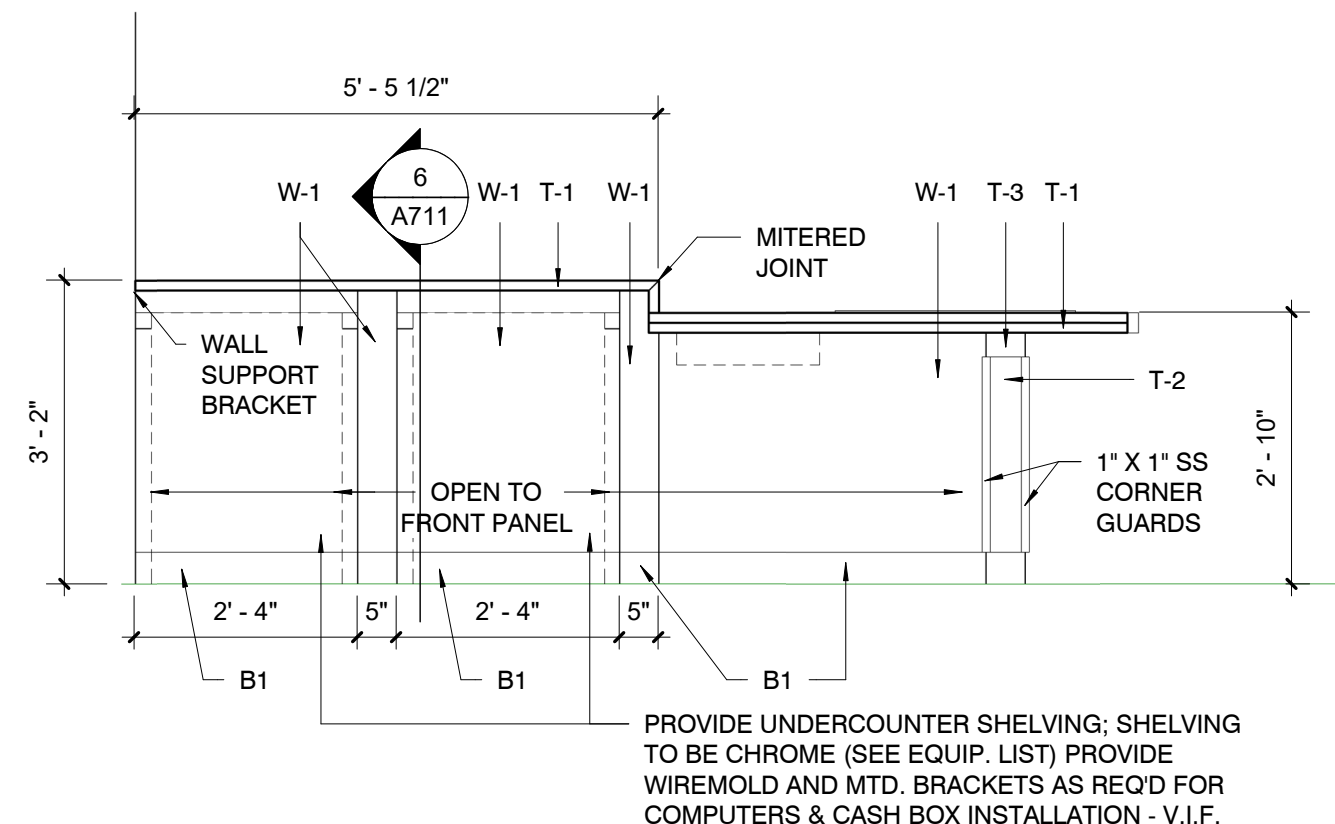
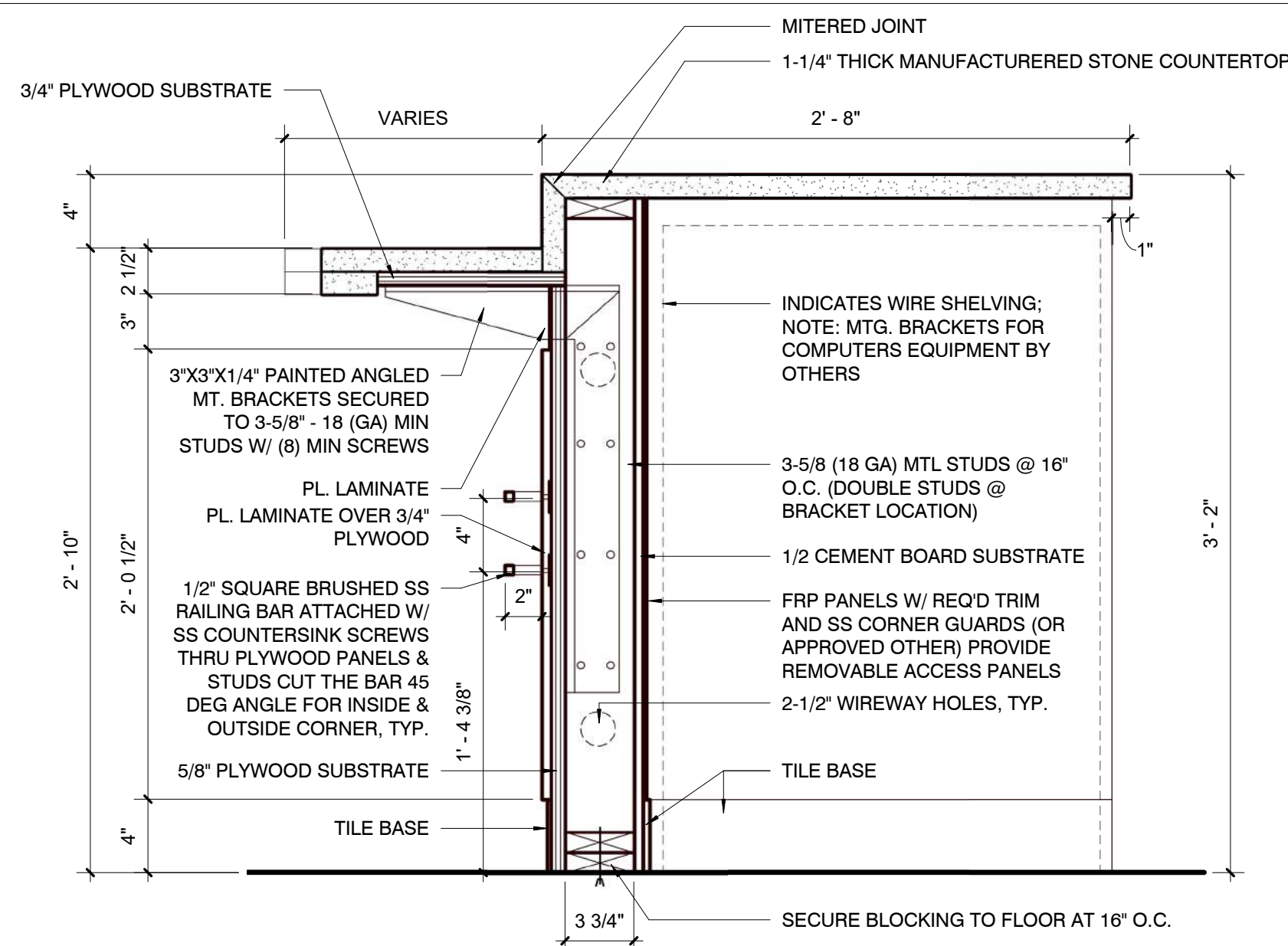
RESTROOM ACCESSORIES SCHEDULE & ADA STANDARDS

10 RESTROOM ELEVATION

9 RESTROOM ELEVATION

1/2" = 1'-0"

1/2" = 1'-0"



6 ORDERS COUNTER - SECTION

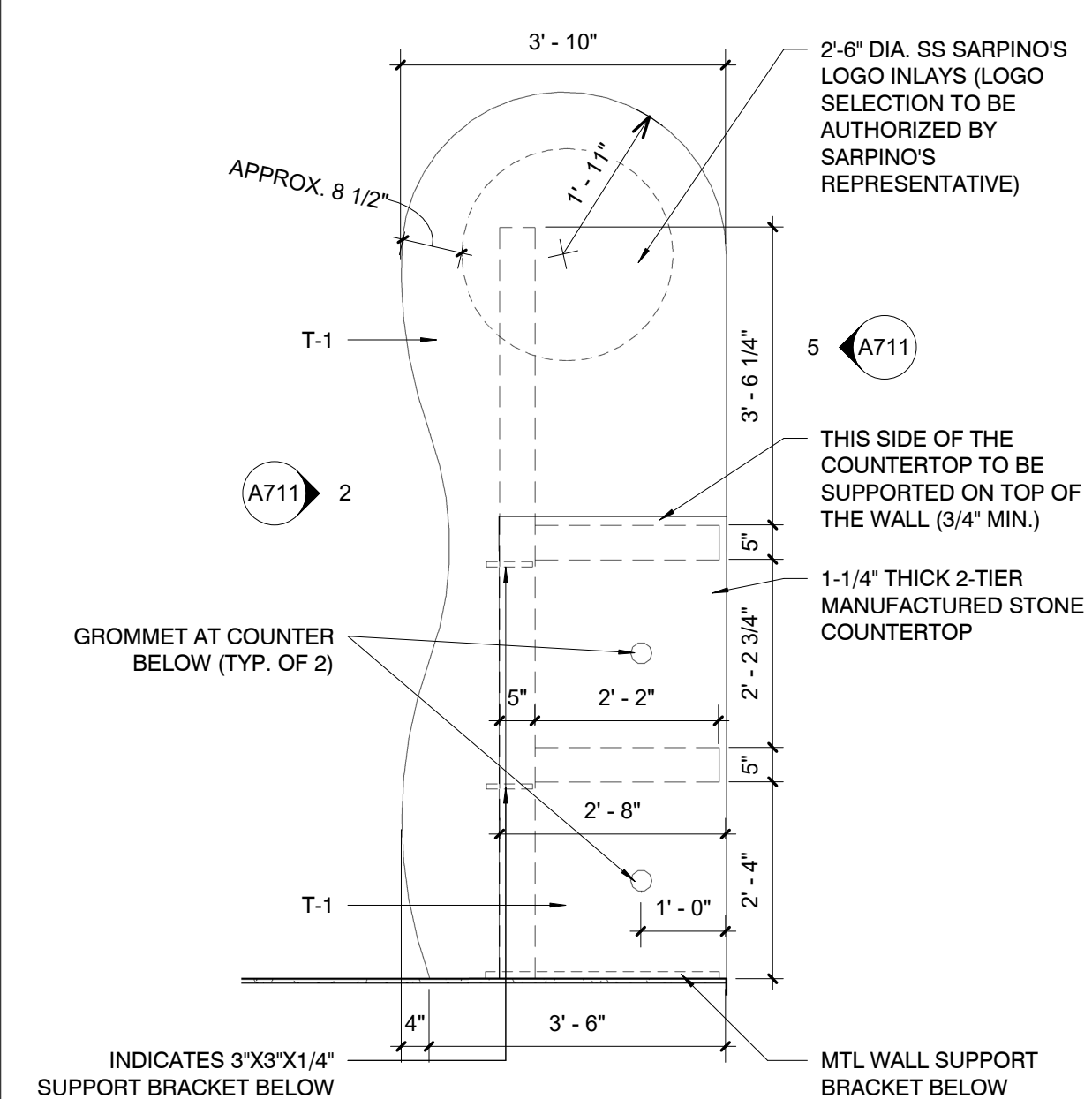
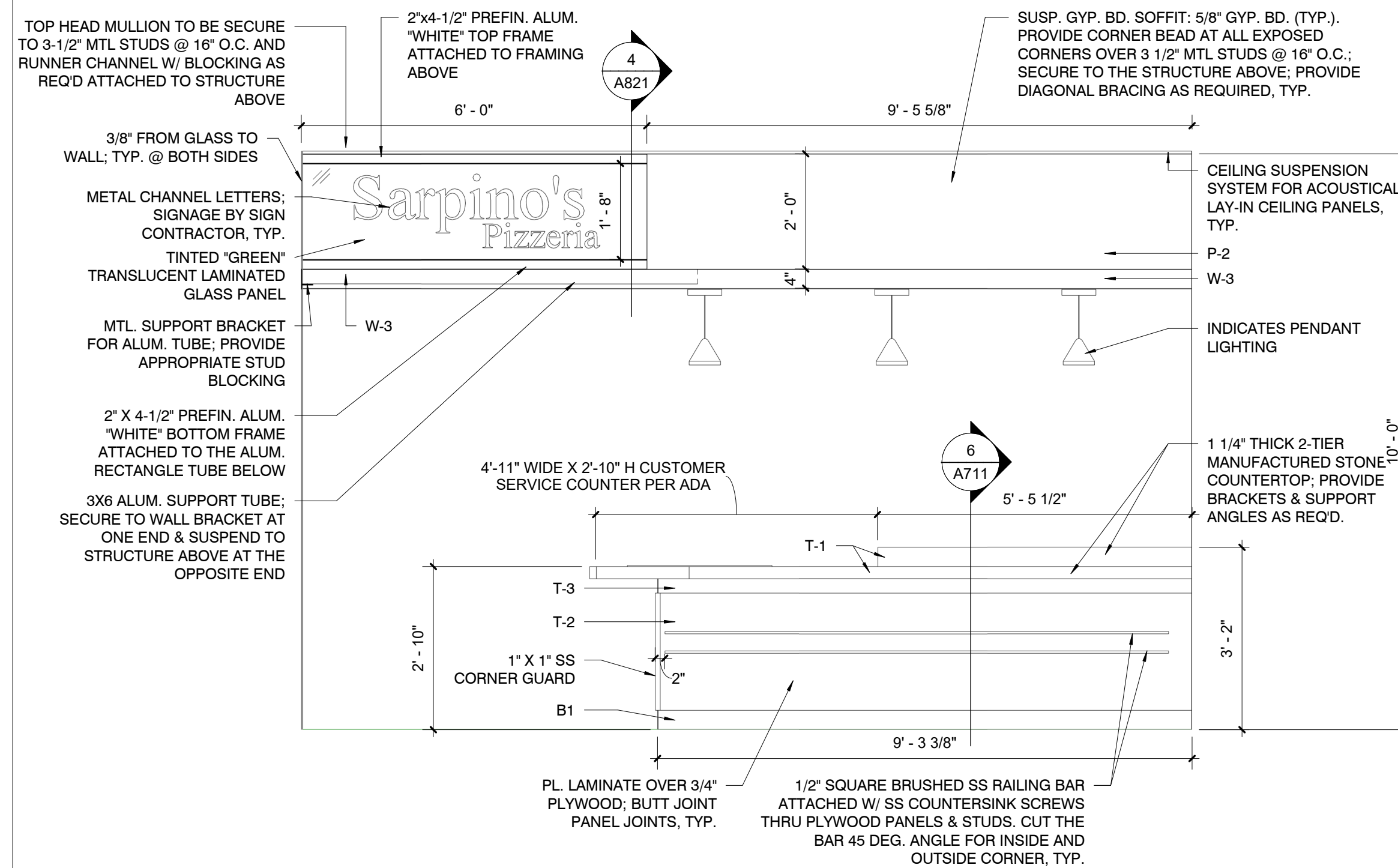
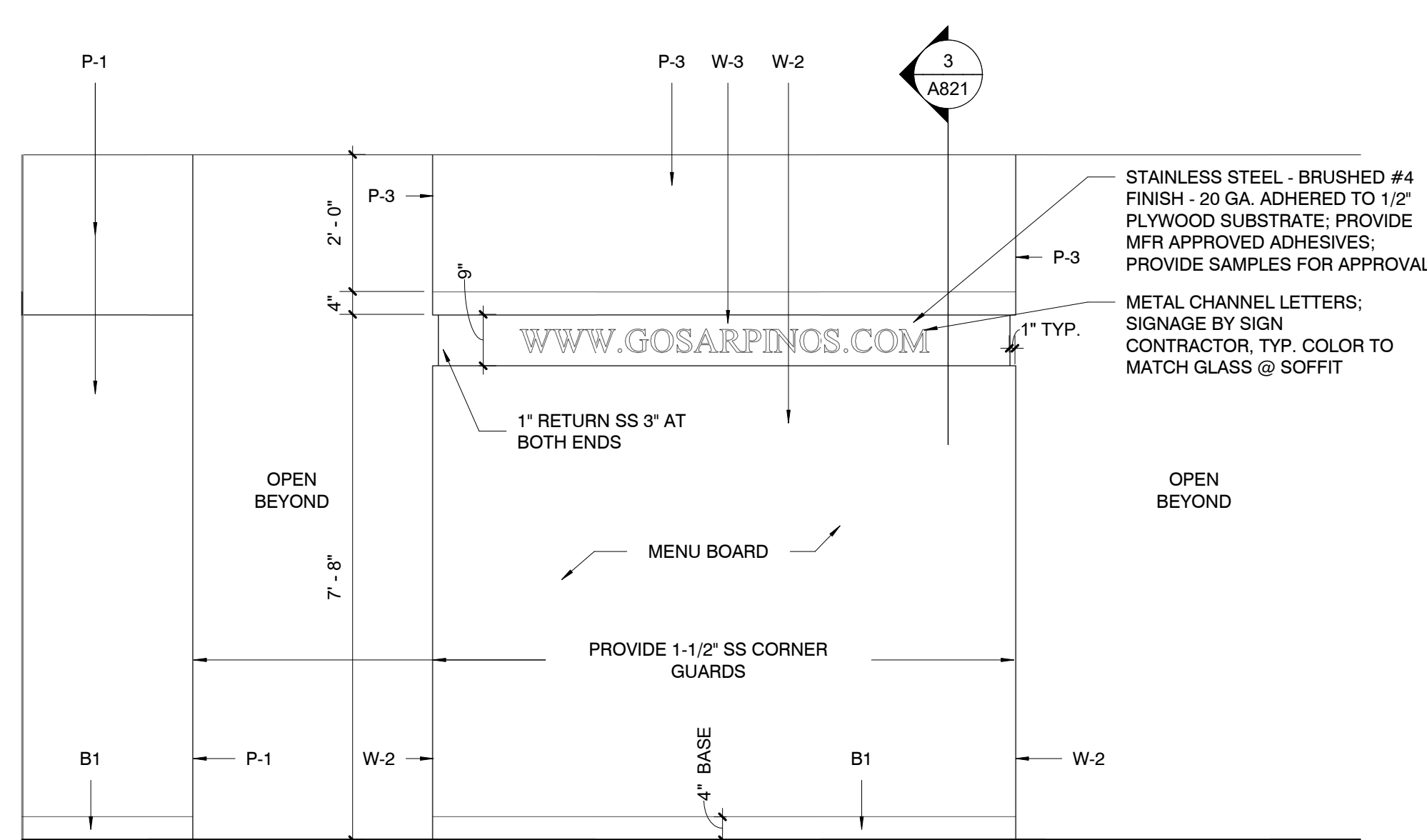
5 ORDERS COUNTER - REAR

4 ORDERS COUNTER - SIDE VIEW

1 1/2" = 1'-0"

1/2" = 1'-0"

1/2" = 1'-0"



3 WALL ELEVATION

2 ORDERS COUNTER - FRONT

1 ORDERS COUNTER PLAN

1/2" = 1'-0"

1/2" = 1'-0"

1/2" = 1'-0"



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INTERIOR
ELEVATIONS /
DETAILS

sheet number

A711



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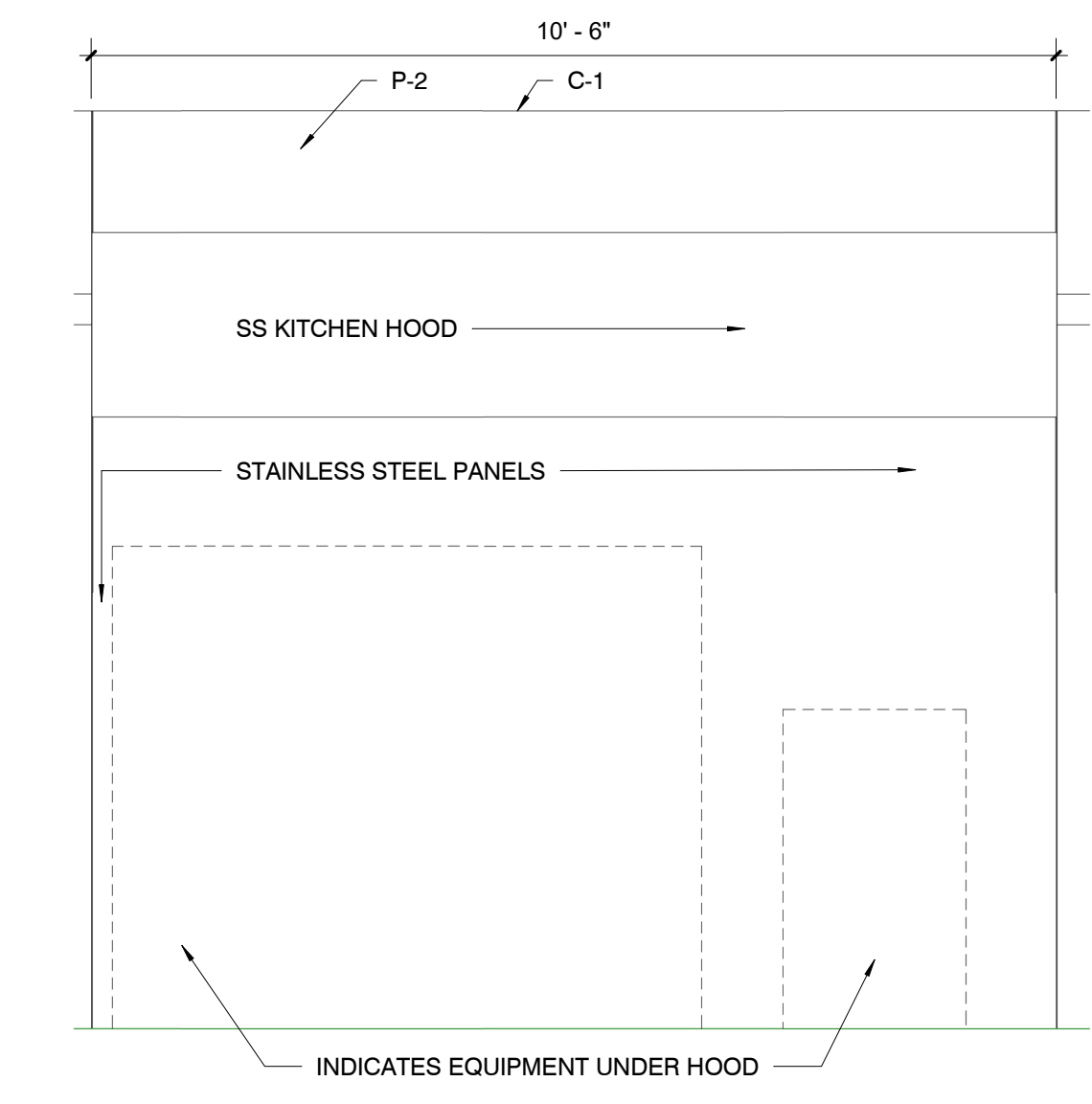
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INTERIOR ELEVATIONS

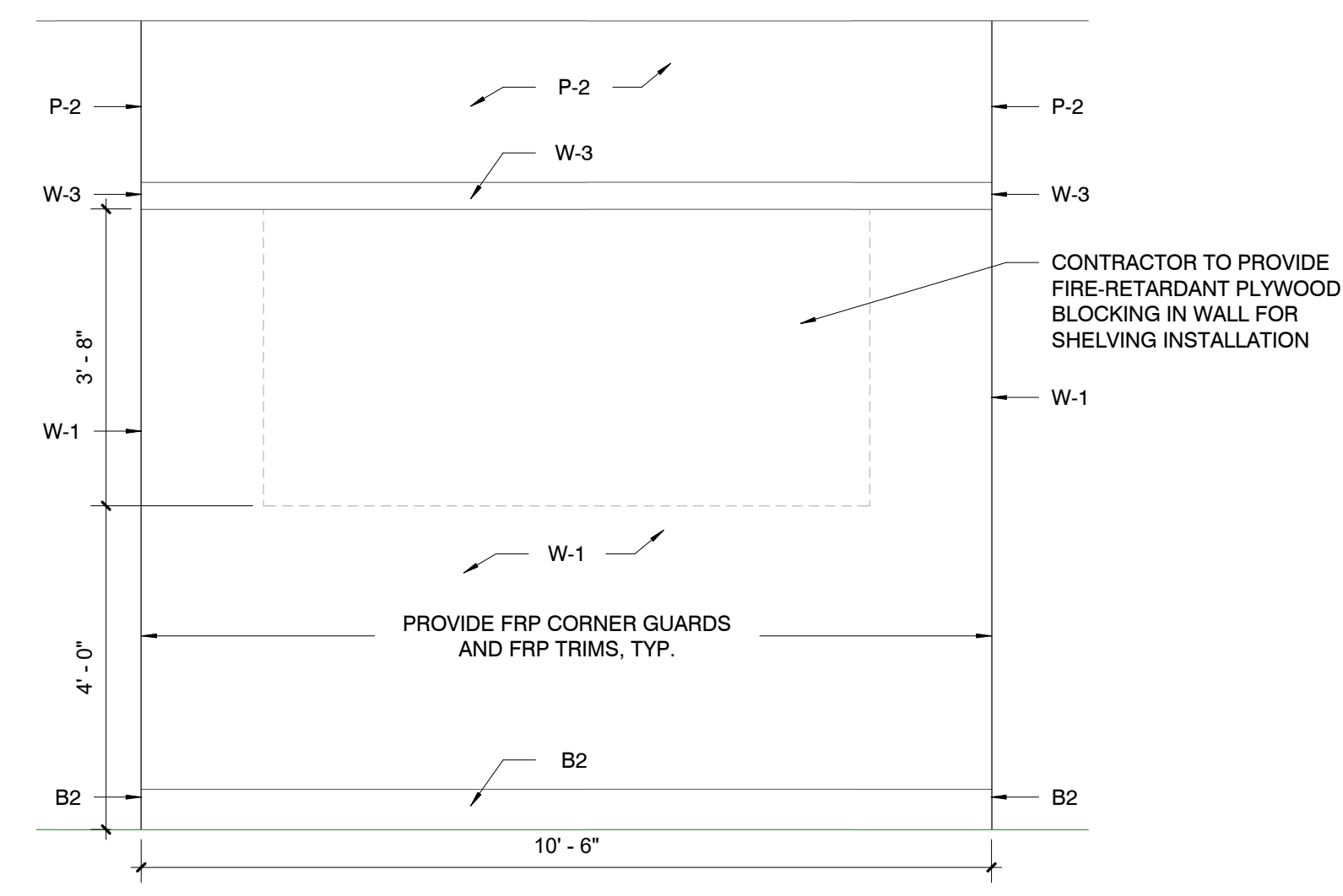
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A712



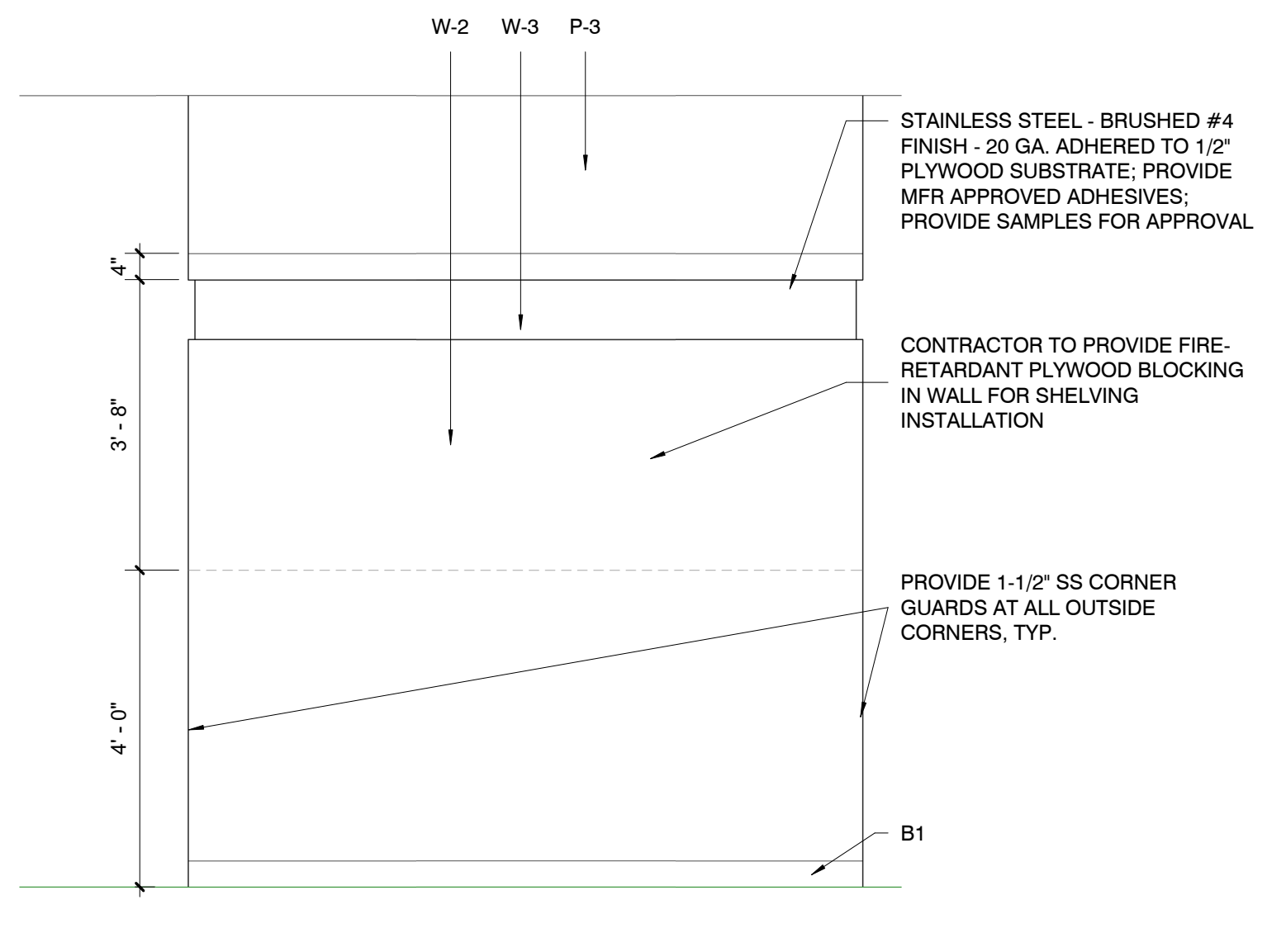
3 INTERIOR ELEVATION

1/2" = 1'-0"



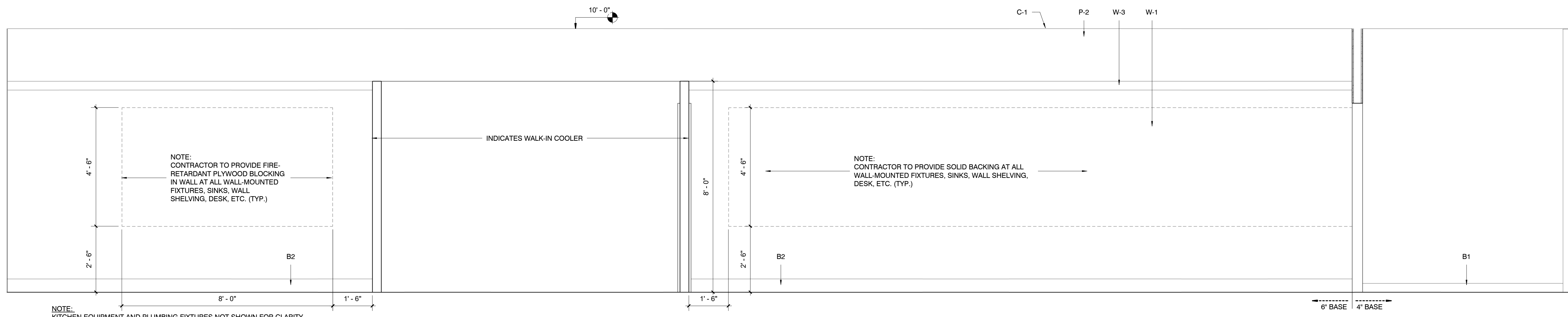
4 INTERIOR ELEVATION

1/2" = 1'-0"



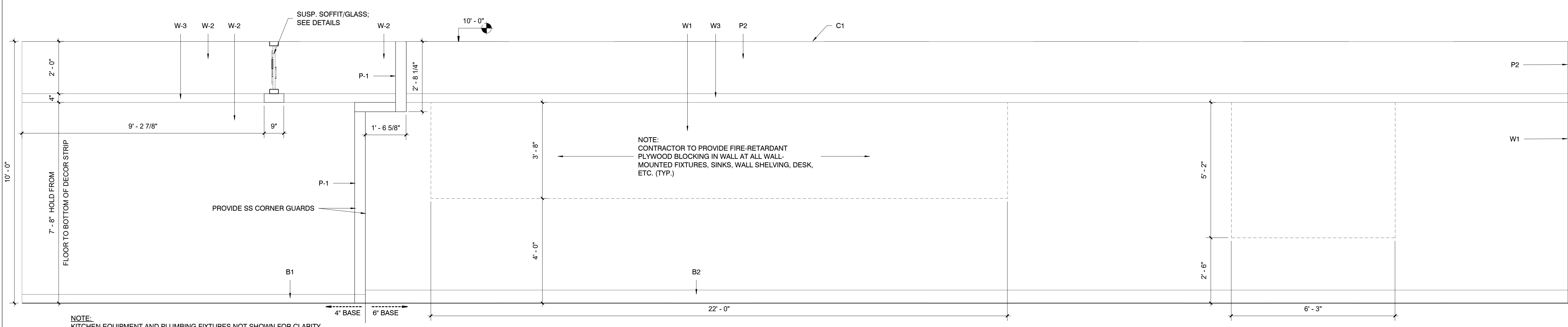
5 INTERIOR ELEVATION

1/2" = 1'-0"



2 INTERIOR ELEVATION

1/2" = 1'-0"



1 INTERIOR ELEVATION

1/2" = 1'-0"

DOOR SCHEDULE								
DOOR #	LOCATION	WIDTH	HEIGHT	DOOR MATERIAL	DOOR TYPE	FRAME TYPE	HARDWARE	NOTES
003A	OFFICE	3' - 0"	7' - 0"	WOOD	FLUSH	HM	SET 1.0	1" UNDERCUT
006A	RESTROOM	3' - 0"	7' - 0"	WOOD	FLUSH	HM	SET 2.0	

- NOTE:**
- EXISTING DOOR HARDWARE BY BUILDING OWNERS TO MEET LOCAL BUILDING CODES BY OTHERS.
 - CLOSER TO BE ADJUSTED TO NO MORE THAN 5 LBS. OF FORCE TO MEET ADA REQUIREMENTS.

DOOR HARDWARE NOTES:

- PROVIDE LEVER-OPERATED MECHANISMS FOR ALL DOOR HARDWARE.
- DOOR OPENING FORCE TO COMPLY W/ ALL ADA REQUIREMENTS.
- ALL DOOR LOCKS SHALL BE OPERABLE IN THE DIRECTION OF EXIT TRAVEL WITHOUT THE USE OF THE KEY OR ANY SPECIAL KNOWLEDGE.
- GC MUST VERIFY THAT ALL EXISTING EGRESS DOORS SHALL HAVE A SINGLE ACTION LEVER HANDLE OR PANIC HARDWARE AND SHALL BE OPERABLE IN THE DIRECTION OF EXIT TRAVEL WITHOUT THE USE OF THE KEY OR ANY SPECIAL KNOWLEDGE TO OPEN. DEAD LOCKS NOT PERMITTED. REPLACE OR MODIFY EXISTING DOOR HARDWARE IF REQUIRED.
- ALL DOORS WHICH ARE REQUIRED EXITS SHALL BE EQUIPPED WITH LATCHES AND HARDWARE MEETING THE REQUIREMENTS CONTAINED IN CHAPTER 10 OF THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE.
- PROVIDE TACTILE SIGNAGE STATING "EXIT" AT EACH EXIT DISCHARGE DOOR PER CHAPTER 10 OF IBC IF REQUIRED BY BUILDING.

DOOR HARDWARE TYPES:

- SET 1.0 (OFFICE)**
- 1 1/2 PR. HAGER BB1191 - US32D 4.5"x4.5" FULL MORTISE HINGES;
 - (1) SCHLAGE AL-50PD-626 SATURN ENTRANCE/OFFICE LOCK;
 - (1) SCHLAGE 10-025-626 STRIKE;
 - 1 1/2" PAIR IVES SR64 FRAME SILENCER
 - IVES WS406 X 626 WALL STOP
- SET 2.0 (WAREHOUSE)**
- 1 1/2 PR. HAGER BB1191-US32D 4.5"x4.5" FULL MORTISE HINGES
 - (1) SCHLAGE AL-50PD-626 SATURN ENTRANCE/STORAGE LOCK;
 - (1) SCHLAGE 10-025-626 STRIKE;
 - 1 1/2" PAIR IVES SR64 FRAME SILENCER
 - IVES WS406 X 626 WALL STOP



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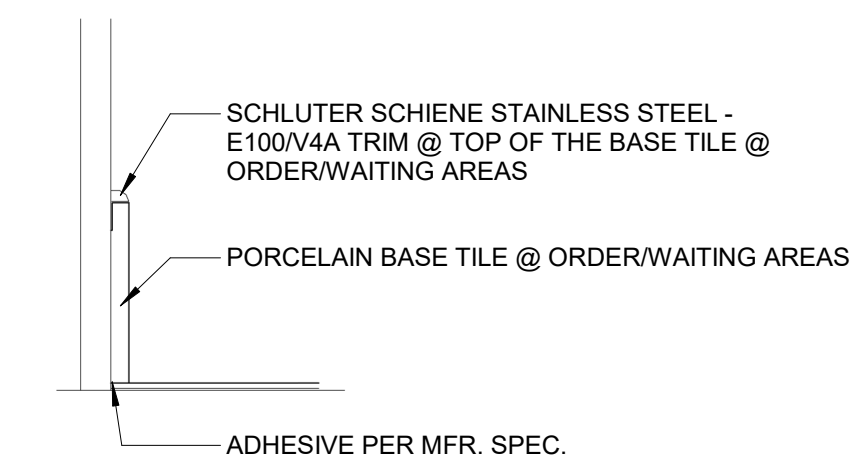
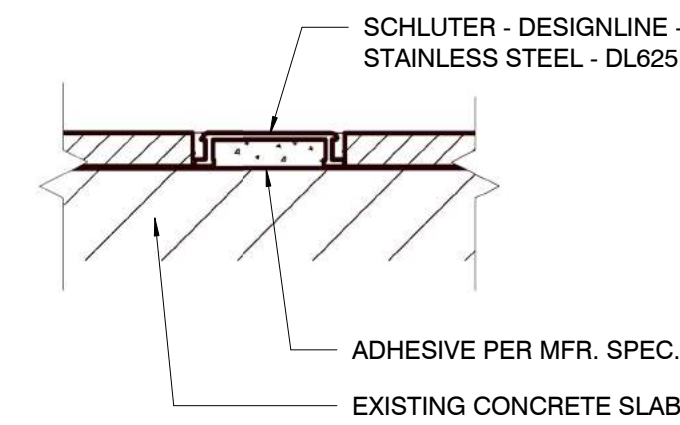
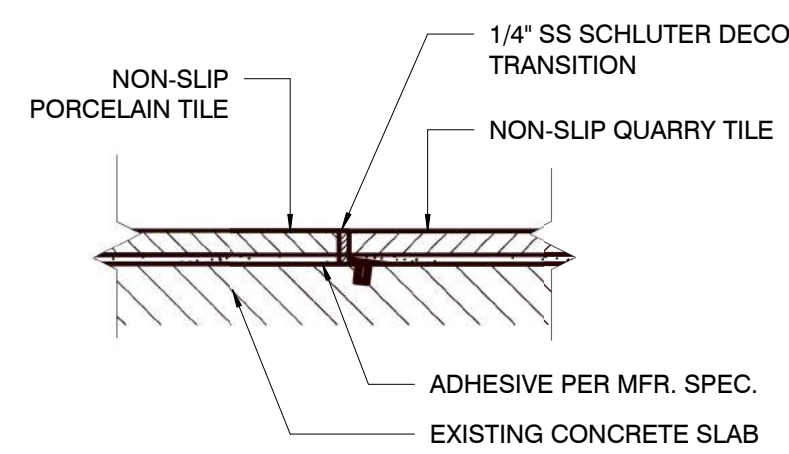
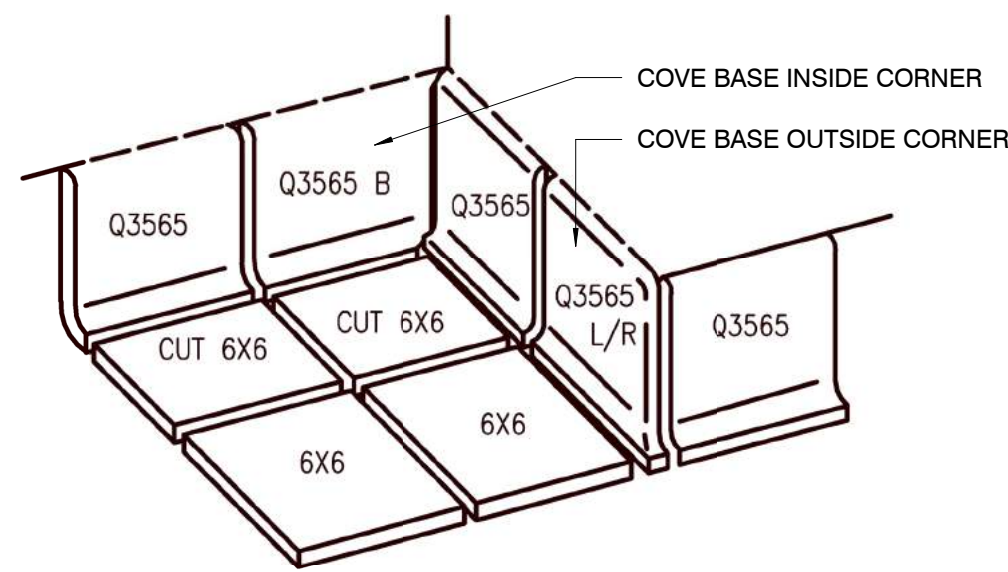
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DETAILS

sheet number

A821



9 QUARRY TILE INSTALL DTL

8 LOGO DETAIL

7 FLOOR TRANSITION DETAIL

6 FLOOR TRANSITION DETAIL

5 TILE/WALL DETAIL

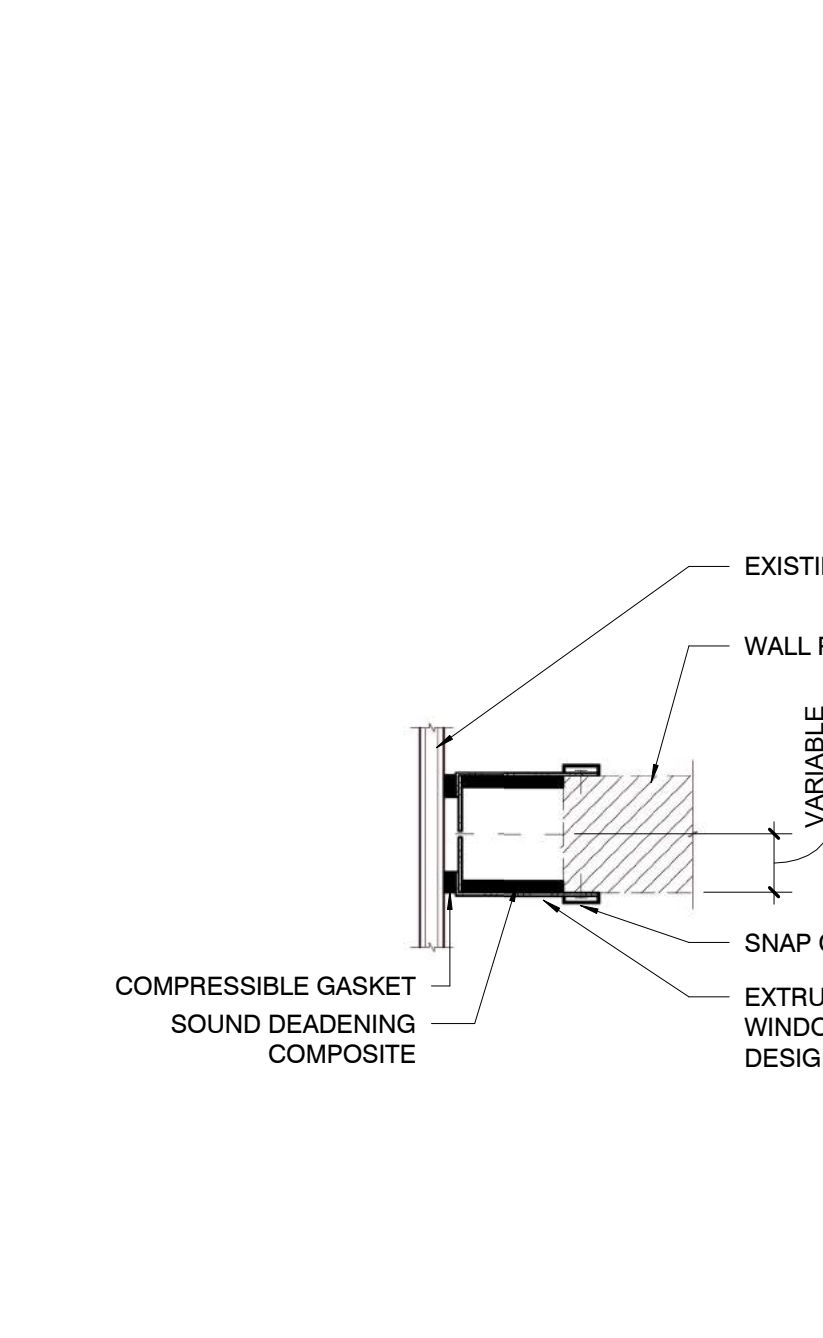
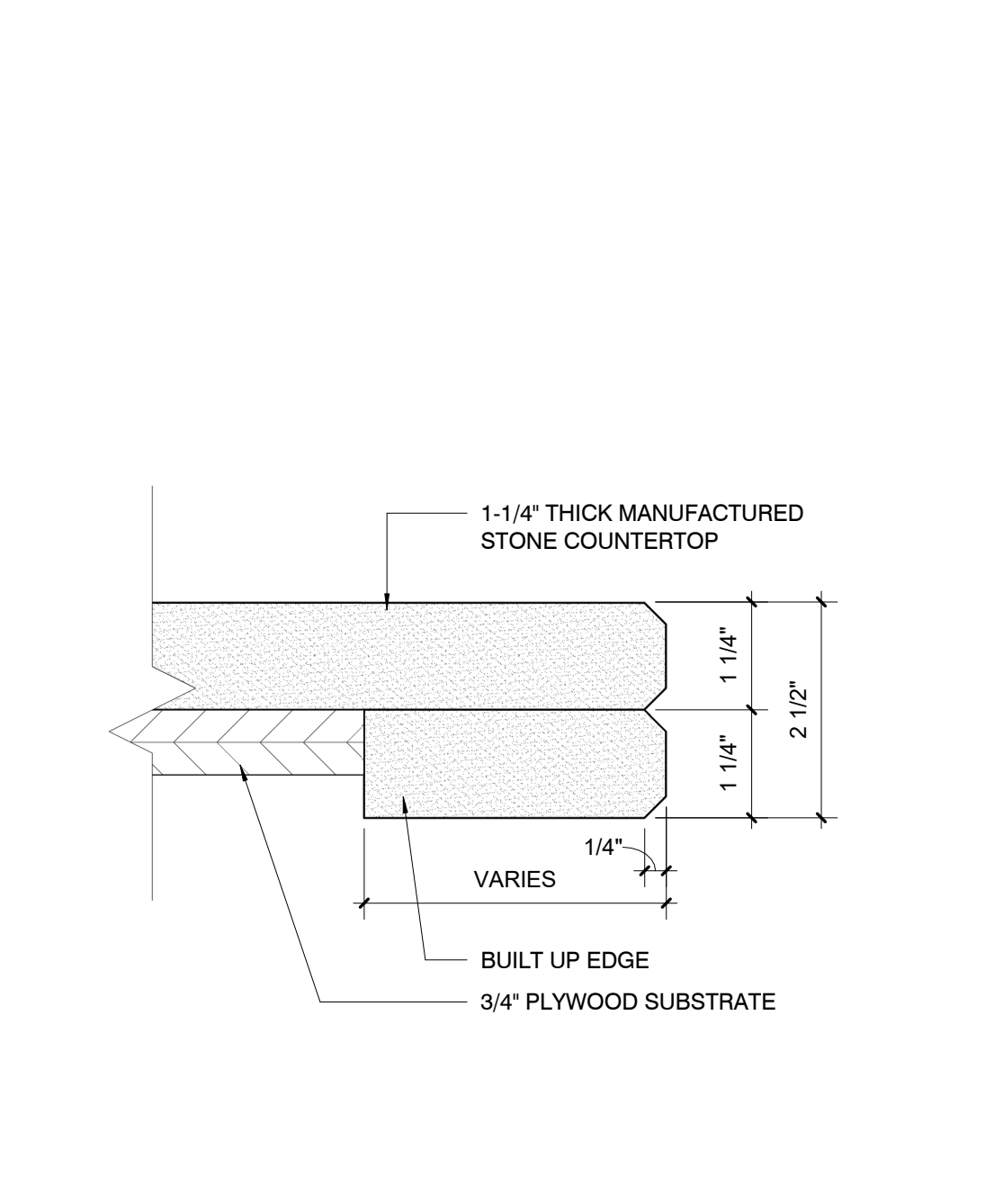
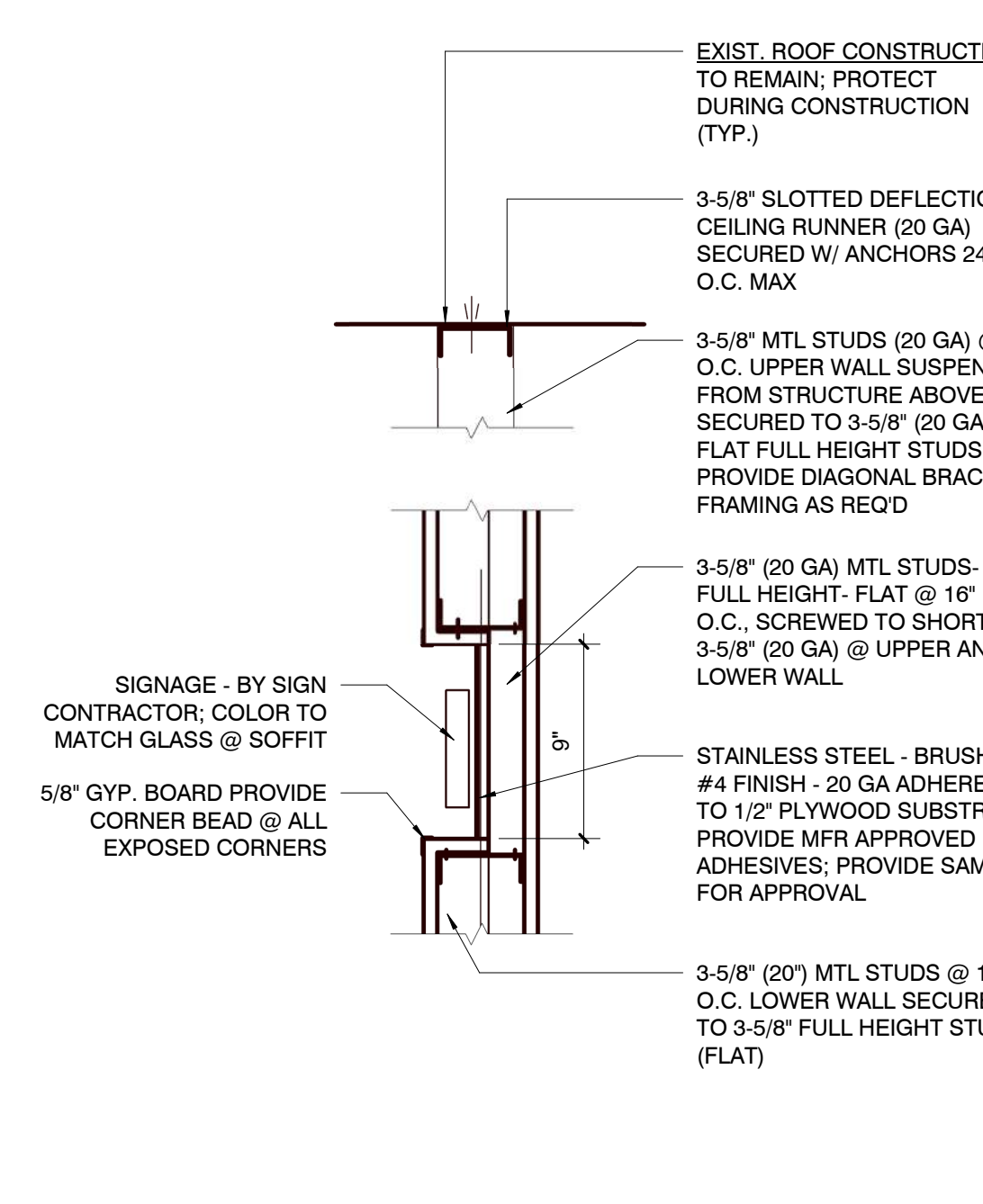
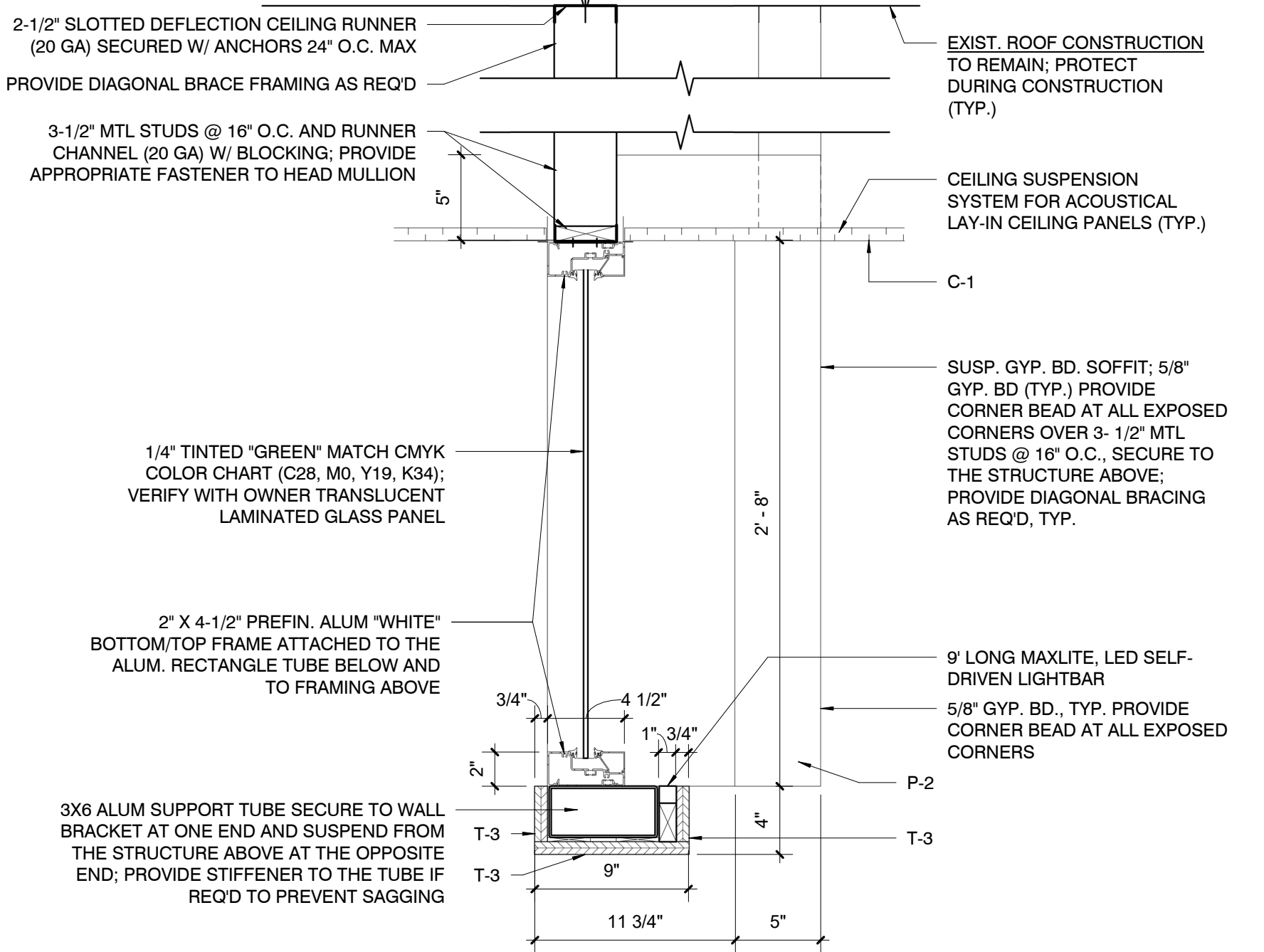
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1 / A901 N.T.S.

1 / A901 N.T.S.

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4 DECORATIVE SOFFIT SECTION

3 SECTION AT FRONT WALL

2 COUNTER EDGE DETAIL

1 WALL/MULLION DETAIL

1 1/2" = 1'-0"

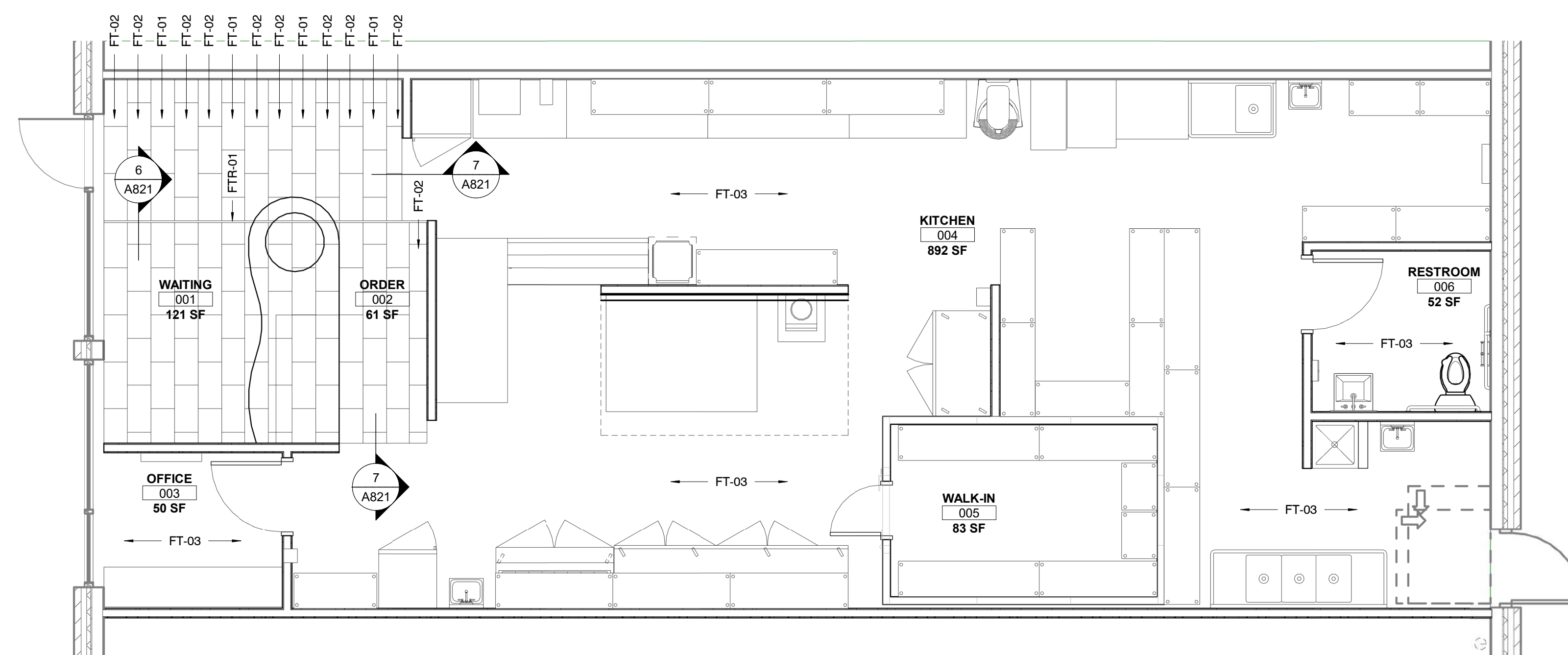
1 1/2" = 1'-0"

6" = 1'-0"

1 1/2" = 1'-0"

FINISH LEGEND				
CODE	MATERIAL	MANUFACTURER	STYLE, COLOR, SIZE	NOTES
FLOOR				
FT-01	FLOOR TILE	DALTILE	BEIGE P401, 12X24 OR EQUAL	15-20% RECYCLED CONTENT; LEED CREDITS: MR 4 & EQ 4.1
FT-02	FLOOR TILE	DALTILE	COFFEE P404, 12X24 OR EQUAL	15-20% RECYCLED CONTENT; LEED CREDITS: MR 4 & EQ 4.1
FT-03	FLOOR TILE	METROPOLITAN CERAMICS	QUARRY TILE, 6X6, BUCKSKIN 105 OR EQUAL	26.5% RECYCLED CONTENT; LEED CREDITS: MR 5, MR 4, ID & EQ 4.3, 4.1
BASE				
B1	WALL BASE	DALTILE	BEIGE P401 BULLNOSE, 4" H BASE TO MATCH FT-01 IN LIEU OF BULLNOSE DETAIL 15/A1.3 COULD BE USED	15-20% RECYCLED CONTENT; LEED CREDITS: MR 4 & EQ 4.1
B2	WALL BASE	METROPOLITAN CERAMICS	QUARRY TILE 6" H COVE BASE TO MATCH FT-03 OR EQUAL	26.5% RECYCLED CONTENT; LEED CREDITS: MR 5, MR 4, ID & EQ 4.3, 4.1
WALLS				
P-1	PAINT	PROMAR / SHERWIN WILLIAMS	200 ZERO VOC, ACCENT, SHERWIN WILLIAMS 7590 RED OBSESSION	LOW SHEEN FINISH; LEED CREDITS: MR 4.2
P-2	PAINT	PROMAR / SHERWIN WILLIAMS	200 ZERO VOC, FIELD, SHERWIN WILLIAMS 7626, ZURICH WHITE	EGGSHELL FINISH; LEED CREDITS: MR 4.2
P-3	PAINT	PROMAR / SHERWIN WILLIAMS	200 ZERO VOC, ACCENT, SHERWIN WILLIAMS 7747 RECYCLED GLASS	LOW SHEEN FINISH; LEED CREDITS: MR 4.2
W-1	FRP PANELS	MARLITE	FRP PANELS, S100G WHITE	LEED CREDITS: MR 4.4, EQ 10
W-2	WALLPAPER MURAL	-	PAINTED TO MATCH P-1 OR 4" H WALL DECAL (COLOR P-1) OWNER'S OPTION	
W-3	VARIABLES	-		
CEILING				
C-1	ACOUSTICAL CEILING TILE	USG	24X48 VINYL CLIMAPLUS #3270	23-56% RECYCLED CONTENT; LEED CREDITS: MR & EQ
CASEWORK				
T-1	CONCRETE COUNTERTOP	-	CONCRETE COUNTERTOP TO MATCH ICESTONE "TUSCAN SANSET" 100% RECYCLED GLASS MIXED W/ CEMENT, SEALED, OR APPROVED EQ.	RECYCLED CONTENT: 63% PRECONS. 7% POSTCONS.; LEED CREDITS: MR 4.1, MR 4.2, ID, MR 2.2, EQ 4.1, MR 5.1, 5.2
T-2	PLASTIC LAMINATE	FORMICA	5904-58 WILD CHERRY MATTE OR EQUAL	2% RECYCLED CONTENT; LEED CREDITS: MR 5.1 & EQ 4.4 AND 4.5
T-3	PLASTIC LAMINATE	FORMICA	M4522 ALUMINUM STAINLESS II OR EQUAL	2% RECYCLED CONTENT; LEED CREDITS: MR 5.1 & EQ 4.4 AND 4.5
MISCELLANEOUS				
FTR-01	FLOOR TRANSITION	SCHLUTER	DESIGNLINE SS 304 - DL625E, CUT TO REQUIRED LENGTH	15-20% RECYCLED CONTENT; LEED CREDITS: MR 4 & EQ 4.1
GRT-01	GROUT	BOSTIK	TRUCOLOR PRE-MIXED; SAND BEIGE H148 / CHOKOLATE D-G10	8% POST CONSUMER GLASS; LEED CREDITS: MR 4.1, 4.2 (RECYCLED CONT.) & EQ 4.1 (LOW EMITTING MTL.)
GRT-02	GROUT	BOSTIK	TRUCOLOR PRE-MIXED; KAHULA CREAM H143 / SANDCASTLE D-G04	

ROOM FINISH SCHEDULE									
RM. NO.	ROOM NAME	FLOORS		WALL FINISH				CEILING FINISH	NOTES
		FLOOR	WALL BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL		
001	WAITING	FT-01/FT-02	B-1	RE: ELEVATIONS	RE: ELEVATIONS	RE: ELEVATIONS	RE: ELEVATIONS	C-1	SEE FLOOR PLAN & WALL ELEVATIONS FOR EXACT LOCATION
002	ORDER	FT-01/FT-02	B-1	RE: ELEVATIONS	RE: ELEVATIONS	RE: ELEVATIONS	RE: ELEVATIONS	C-1	
003	OFFICE	FT-03	B-2	P-2	P-2	P-2	P-2	C-1	
004	KITCHEN	FT-03	B-2	RE: ELEVATIONS	RE: ELEVATIONS	RE: ELEVATIONS	RE: ELEVATIONS	C-1	
005	WALK-IN	FT-03	B-2	RE: ELEVATIONS	RE: ELEVATIONS	RE: ELEVATIONS	RE: ELEVATIONS	C-1	
006	RESTROOM	FT-03	B-2	P-2	P-2	P-2	P-2	C-1	4'-0" H. FRP PANELS @ ALL WALLS; P-2 ABOVE FRP



GENERAL NOTES - INTERIOR FINISHES:

- WHERE MULTIPLE FINISHES ARE LISTED IN ONE AREA OR ROOM ON THE FINISH SCHEDULE, REFER TO FINISH PLANS AND INTERIOR ELEVATIONS FOR CLARIFICATION.
- ALL FINISHES SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS LATEST WRITTEN SPECIFICATIONS AND INITIAL MAINTENANCE INSTRUCTIONS.
- NEW DRYWALL SURFACES SHALL RECEIVE (1) COAT OF PRIMER AND (2) FINISH COATS.
- INSTALLATION OF NEW FINISHES BY THE CONTRACTOR SHALL INDICATE ACCEPTANCE OF WALL AND FLOOR PREPARATION, AND FULL RESPONSIBILITY FOR COMPLETED WORK.
- CONTRACTOR SHALL SUBMIT TO TENANT, FOR REVIEW AND APPROVAL, SAMPLES OR DRAW DOWNS OF FINISHES AND MATERIALS SPECIFIED IN "FINISH SCHEDULE".
- EXISTING SUB FLOOR SHALL BE FLASH-PATCHED AT ALL AREAS WHERE FLOOR IS NOT LEVEL OR TRUE.
- GENERAL CONTRACTOR SHALL VERIFY WITH TENANT THE PLACEMENT OF ALL ATTIC STOCK OF NEW FINISH MATERIALS, I.E.: CARPET, VINYL COMPOSITION TILE, VINYL BASE, ETC. FOR TENANT STORAGE.
- HOLLOW METAL FRAMES SHALL RECEIVE SEMI-GLOSS FINISH.
- SEE FINISHES NOTES ON EQUIPMENT PLAN SHEET.
- ALL FINISHES INDICATED HEREIN ARE FOR SCOPE INTENT PURPOSES ONLY AND ARE TO BE AS SPECIFIED, FURNISHED AND INSTALLED BY CONTRACTOR.
- PROVIDE FULL WRAP AROUND STAINLESS STEEL END WALL GUARDS WITH 2" LEGS X 8'-0" H STARTING AT TOP OF BASE. SEE ELEVATIONS.
- WALK-IN COOLER FLOOR TO BE HARD TILES W/ COVED BASE OR PREFAB. FLOORING.



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FINISH
LEGEND &
SCHEDULE

sheet number

A901

1 FINISH PLAN

1/4" = 1'-0"

FINISHES NOTES:
 PER DEPARTMENT OF PUBLIC HEALTH
 SUBCHAPTER M: FOOD, DRUGS AND COSMETICS
 PART 750 FOOD SERVICE SANITATION CODE
 SECTION 750.1200

NON-FOOD CONTACT SURFACES

1. THE WALLS, WALL COVERINGS, AND CEILINGS OF WALK-IN REFRIGERATION UNITS, FOOD PREPARATION AREAS, WAREWASHING AREAS, AND TOILET ROOMS AND THEIR VESTIBULES SHALL BE SMOOTH, NONABSORBENT, AND EASILY CLEANABLE. CONCRETE OR PUMICE BLOCKS AND BRICKS USED FOR INTERIOR WALL CONSTRUCTION IN THESE LOCATIONS SHALL BE FINISHED AND SEALED TO PROVIDE A SMOOTH EASILY CLEANABLE SURFACE.
2. SURFACES OF EQUIPMENT NOT INTENDED FOR CONTACT WITH FOOD, BUT WHICH ARE EXPOSED TO SPLASH OR FOOD DEBRIS OR WHICH OTHERWISE REQUIRE FREQUENT CLEANING, SHALL BE DESIGNED AND FABRICATED SO AS TO BE SMOOTH, WASHABLE, FREE OF UNNECESSARY LEDGES, PROJECTIONS, OR CREVICES, AND READILY ACCESSIBLE FOR CLEANING, AND SHALL BE OF SUCH MATERIAL AND IN SUCH REPAIR AS TO BE EASILY MAINTAINED IN A CLEAN AND SANITARY CONDITION.

GENERAL NOTES - EQUIPMENT PLAN:

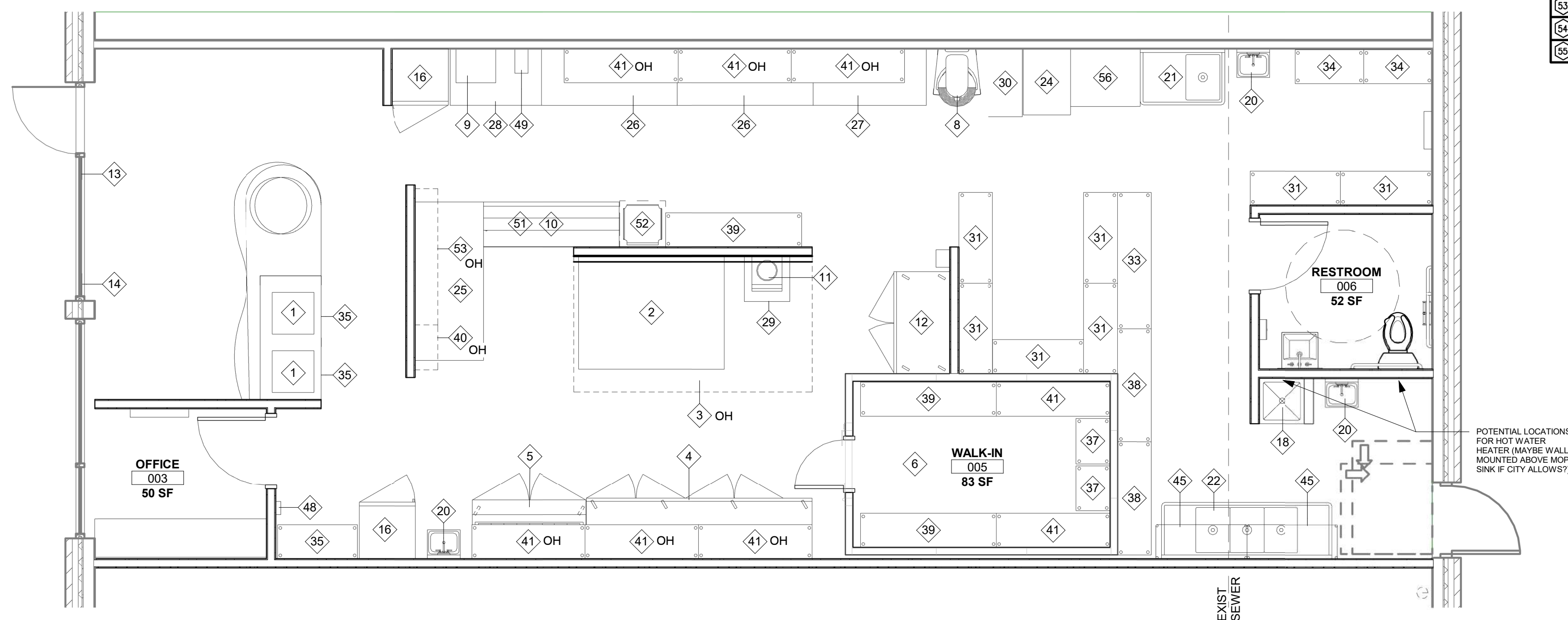
1. TENANT TO VERIFY EXACT EQUIPMENT BEING INSTALLED.
2. CONTRACTOR TO VERIFY EXACT INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER SPECIFICATIONS AND PROVIDE ALL CONNECTIONS AS REQUIRED.
3. ALL EQUIPMENT SET IN PLACE BY EQUIPMENT CONTRACTOR, LEVELED, FLASHED AND MADE READY FOR FINAL CONNECTION BY PLUMBER, ELECTRICIAN, GAS, STEAM AND OTHER TRADES.
4. WALK-IN COOLER DOES NOT REQUIRE A CONDENSATION DRAIN OR WATER SUPPLY.
5. ELECTRICIANS TO CONNECT WIRING TO REFRIGERATOR CONDENSING UNITS, INCLUDING CONTROL WIRING.
6. ALL GAS FIRED EQUIPMENT SHALL BE ON CASTERS WITH NSF/ANSI APPROVED POLYCOATED GAS LINES WITH GAS QUICK DISCONNECT.
7. *OH INDICATES EQUIPMENT ABOVE.

FLOORS

- FLOORS AND FLOOR COVERINGS OF ALL FOOD PREPARATION, FOOD STORAGE, AND UTENSIL-WASHING AREAS, AND THE FLOORS OF ALL WALK-IN REFRIGERATION UNITS, DRESSING ROOMS, LOCKER ROOMS, TOILET ROOMS AND VESTIBULES SHALL BE CONSTRUCTED OF SMOOTH DURABLE MATERIAL SUCH AS SEALED CONCRETE, TERRAZZO, CERAMIC TILE, DURABLE GRADES OF LINOLEUM OR PLASTIC, OR TIGHT WOOD IMPREGNATED WITH PLASTIC, AND SHALL BE MAINTAINED IN GOOD REPAIR. NOTHING IN THIS SECTION SHALL PROHIBIT THE USE OF ANTI-SLIP FLOOR COVERING IN AREAS WHERE NECESSARY FOR SAFETY REASONS.
- PROPERLY INSTALLED TRAPPED FLOOR DRAINS SHALL BE PROVIDED IN FLOORS THAT ARE WATERFLUSHED FOR CLEANING OR THAT RECEIVE DISCHARGES OF WATER OR OTHER FLUID WASTE FROM EQUIPMENT, OR IN AREAS WHERE PRESSURE SPRAY METHODS FOR CLEANING EQUIPMENT ARE USED. SUCH FLOORS SHALL BE CONSTRUCTED ONLY OF SEALED CONCRETE, TERRAZZO, CERAMIC TILE OR SIMILAR MATERIALS, AND SHALL BE GRADED TO DRAIN.
- MATS AND DUCKBOARDS SHALL BE OF NON-ABSORBENT, GREASE RESISTANT MATERIAL AND OF SUCH SIZE, DESIGN, AND CONSTRUCTION AS TO FACILITATE THEIR BEING EASILY CLEANED. DUCKBOARDS SHALL NOT BE USED AS STORAGE RACKS.
- IN ALL NEW OR EXTENSIVELY REMODELED ESTABLISHMENTS UTILIZING CONCRETE, TERRAZZO, CERAMIC TILE OR SIMILAR FLOORING MATERIALS, AND WHERE WATER-FLUSH CLEANING METHODS ARE USED, THE JUNCTURES BETWEEN WALLS AND FLOORS SHALL BE COVERED AND SEALED. IN ALL OTHER CASES, THE JUNCTURE BETWEEN WALLS AND FLOORS SHALL NOT PRESENT AN OPEN SEAM OF MORE THAN 1/32 INCH.
- EXPOSED UTILITY SERVICE LINES AND PIPES SHALL BE INSTALLED IN A WAY THAT DOES NOT OBSTRUCT OR PREVENT CLEANING OF THE FLOOR. IN ALL NEW OR EXTENSIVELY REMODELED ESTABLISHMENTS, INSTALLATION OF EXPOSED HORIZONTAL UTILITY LINES AND PIPES ON THE FLOOR IS PROHIBITED.

WALLS AND CEILINGS

- WALLS AND CEILINGS, INCLUDING DOORS, WINDOWS, AND SIMILAR ENCLOSURES SHALL BE MAINTAINED IN GOOD REPAIR.
- THE WALLS, INCLUDING NON-SUPPORTING PARTITIONS, WALL COVERINGS AND CEILINGS OF WALK-IN REFRIGERATING UNITS, FOOD PREPARATION AREAS, EQUIPMENT-WASHING AND UTENSIL-WASHING AREAS, TOILET ROOMS AND VESTIBULES SHALL BE LIGHT-COLORED, SMOOTH, NON-ABSORBENT AND EASILY CLEANABLE. CONCRETE OR PUMICE BLOCKS USED FOR INTERIOR WALL CONSTRUCTION IN THESE LOCATIONS SHALL BE FINISHED AND SEALED TO PROVIDE AN EASILY CLEANABLE SURFACE.
- STUDS, JOISTS, AND RAFTERS SHALL NOT BE EXPOSED IN WALK-IN REFRIGERATING UNITS, FOODPREPARATION AREAS, EQUIPMENT AND UTENSIL-WASHING AREAS, IN TOILET ROOMS AND VESTIBULES. IF EXPOSED IN OTHER ROOMS OR AREAS, THEY SHALL BE FINISHED TO PROVIDE AN EASILY CLEANABLE SURFACE.
- EXPOSED UTILITY SERVICE LINES AND PIPES SHALL BE INSTALLED IN A WAY THAT DOES NOT OBSTRUCT OR PREVENT CLEANING OF THE WALLS AND CEILINGS. UTILITY SERVICE LINES AND PIPES SHALL NOT BE UNNECESSARILY EXPOSED ON WALLS OR CEILINGS IN WALK-IN REFRIGERATING UNITS, FOOD-PREPARATION AREAS, EQUIPMENT-WASHING AND UTENSILWASHING AREAS, TOILET ROOMS AND VESTIBULES.
- LIGHT FIXTURES, VENT COVERS, WALL-MOUNTED FANS, DECORATIVE MATERIALS AND SIMILAR EQUIPMENT ATTACHED TO WALLS AND CEILINGS SHALL BE EASILY CLEANABLE AND SHALL BE MAINTAINED IN GOOD REPAIR.
- WALL AND CEILING COVERING MATERIAL SHALL BE ATTACHED AND SEALED SO AS TO BE EASILY CLEANABLE.



NO.	ITEM	MANUFACTURER	CATALOG NO.	DIMENSIONS	ELECTRICAL								PLUMBING	GAS	QUANTITY	NSF	REMARKS
					VOLT	PH	AMP.	HP	KW	CW	FW	SAN.					
1	P.O.S.				120	1									7		
2	DOUBLE CONVEYOR OVEN	MIDDLEBY	PSE40-2	77"W X 60"D X 63"H	208/240		1	4.5			27.0				1	YES	(2) OVENS 99,000 BTU EACH
3	STAINLESS STEEL HOOD	MARSHALL CAPTIVE-FIRE	7224-ND-2	72"D X 126"W X 24"H	120	1									1	YES	#430 S.S. TYPE I HOOD W/ ANSUL SYSTEM
4	PIZZA TABLE	TRUE	TRP-119	119"W X 30" X 36"H (4) 80"X24" IN DOORS	115	1	10.8	1/2							1	YES	PROVIDE CASTERS
5	SANDWICH TABLE	TRUE	TSU 60-16	60" X 30" X 37"H	115	1	7.8	1/3							1	YES	PROVIDE CASTERS
6	WALK-IN COOLER	NOR-LAKE	KL874612C	6'-0" X 12'-0"	208/230	1			7/8						1	YES	CUSTOM W/ COMPRESSOR AIR COOLED SYSTEM. FLOOR TO BE HARD TILE OR PRE-FAB. SELF CONTAINED COND. EVAP. SYSTEM. (NO DRAIN REQ'D)
7	COMPRESSOR				208	1			3/4						1		
8	MIXER	GLOBE	SP-60P	28"L X 25"D X 51"H	208	3	9								1	YES	
9	SLICER	GLOBE CHEFMATE	GC10	21"L X 18"D X 15"H	115	1	5	1/3							1	YES	COUNTERTOP MODEL
10	HEATING STATION	HATCO	GRA-72	72"L X 36"W	120	1									2	YES	
11	INDUCTION RANGE	VOLLRATH	69504	16"W X 18"D X 6"H	208	1	14.4			3.0					1	YES	
12	REACH-IN FREEZER	TRUE OR SIMILAR	T-72	54"L X 30"D X 79"H	115	1	9.6	1/2							1	YES	PROVIDE CASTERS
13	"PIZZA" SIGN				115	1									1		
14	"OPEN" SIGN				115	1									1		
15	FIRE EXTINGUISHER														1		CLASS K, 10 LB FIRE EXTINGUISHER. VERIFY LOCATION W/ FIRE DEPARTMENT
16	COKE COOLER	TRUE	GDM-26RF	30"L X 31"D X 78"H	115	1	7.8	1/3							2		OR SIMILAR, ON CASTERS
17	HOOD EXHAUST FAN	EC	NC414HPPA		115	1		1/2							1		SEE MECH. EQUIP. LIST, DWC, M1.1
18	MOP BASIN	LORSTONE TERRAZZO		12" X 22" INTERIOR W/ FAUCET						3/4"	3/4"	3"			1		WITH STAINLESS STEEL CAPS ON TWO EDGES - INSTALL BUCKET HOLDER AND HEAVY DUTY MOP BACK ADJACENT TO MOP SINK.
19	HOT WATER HEATER	STIEBEL ELTRON	TEMPR 2424 PLUS	17"W X 15"H	208	1				18.0	3/4"	3/4"			1		TANKLESS EL. WATER HEATER
20	HAND SINK	ADVANCE TABCO (JOHN BOOS AS ALT.)	7-PS-66-2K	17" X 15"					1/2"	1/2"	1-1/2"				3	YES	
21	STAINLESS STEEL ONE-COMP. SINK	ADVANCE TABCO (JOHN BOOS AS ALT.)	FC-1-1824-24-L-X	45"W X 30"D X 43"H					1/2"	1/2"	1-1/2"				1	YES	18"X24, 18" RIGHT DRAIN BOARD
22	STAINLESS STEEL 3-COMP. SINK	ADVANCE TABCO (JOHN BOOS AS ALT.)	FC-3-18-18L-L-X	60"L X 24"D X 43"H					(2) 1/2"	(2) 1/2"	1-1/2"				1	YES	18"X18, 18" LEFT RIGHT DRAINBOARDS, PROVIDE NSF APPROVED SHELF OVER 3-COMP. SINK
23	GREASE TRAP	ROCKFORD	GF-3224	36"L X 23"D X 31"H							4"				1		NOT USED
24	MOVABLE CAN STORAGE RACK	ADVANCE TABCO	CRPL 10-54	25" X 35" X 33"H											1	YES	
25	STAINLESS STEEL CUT AND STACK TABLE	EAGLE GROUP	LI3696B	8'-0" X 3'-0"											1	YES	SS W/ LEGS, SHELF AND BACKSPLASH
26	STAINLESS STEEL TABLE	ADVANCE TABCO (EAGLE AS ALT.)	HLAG-306	6'-0" X 2'-6"											2	YES	SS W/ LEGS, SHELF AND BACKSPLASH
27	STAINLESS STEEL TABLE	ADVANCE TABCO (EAGLE AS ALT.)	ELAG-304	4'-0" X 2'-6"											2	YES	SS W/ LEGS, SHELF
28	STAINLESS STEEL TABLE	ADVANCE TABCO (EAGLE AS ALT.)	ELAG-242	24" X 24" X 12"H											1	YES	SS W/ 12"H LEGS, SHELF
29	DUNNAGE RACK	DUN-2436		3'-0" X 2'-0" DEEP											1	YES	
30	WIRE SHELVING & POSTS	ADVANCE TABCO (CENTAUR AS ALT.)	ECP-74/ EC-1860	5'-0" X 1'-6" DEEP											4	YES	LEGSK=12 SLVSK=12 (CROME)
31	WIRE SHELVING & POSTS	ADVANCE TABCO (CENTAUR AS ALT.)	ECP-74/ EC-1872	6'-0" X 1'-6" DEEP											4	YES	LEGSK=12 SLVSK=12 (CROME)
32	WIRE SHELVING & POSTS	CENTAUR SHELVING (CENTAUR AS ALT.)	CSC7/ C2448C	4'-0" X 2'-0" DEEP											2	YES	LEGSK=8 SLVSK=4 (CROME)
33	WIRE SHELVING & POSTS	ADVANCE TABCO (CENTAUR AS ALT.)	EG-34/EGP-74/ EC-1872	6'-0" X 1'-6" DEEP											4	YES	LEGSK=12 SLVSK=12 (CROME)
34	WIRE SHELVING & POSTS	ADVANCE TABCO (CENTAUR AS ALT.)	EGP-74/ EG-1824	2'-0" X 1'-6" DEEP											4	YES	LEGSK=4 SLVSK=4 (GREEN EPOXY COATED)
35	WIRE SHELVING & POSTS	ADVANCE TABCO (CENTAUR AS ALT.)	EGP-74/ EG-1860	5'-0" X 1'-6" DEEP											4	YES	LEGSK=8 SLVSK=8 (GREEN EPOXY COATED)
36	WIRE SHELVING & POSTS	ADVANCE TABCO (CENTAUR AS ALT.)	EGP-74/ EG-1872	6'-0" X 1'-6" DEEP											4	YES	LEGSK=8 SLVSK=8 (GREEN EPOXY COATED)
37	WIRE SHELVING	ADVANCE TABCO (CENTAUR AS ALT.)	EC-1848	4'-0" X 1'-6" DEEP											1	YES	(CROME) MTD @ 6'-4" A.F.F.
38	WIRE SHELVING	ADVANCE TABCO (CENTAUR AS ALT.)	EC-1860	5'-0" X 1'-6" DEEP											5	YES	(CROME) MTD @ 6'-4" A.F.F.
39	WIRE SHELVING	ADVANCE TABCO (CENTAUR AS ALT.)	EC-1872	6'-0" X 1'-6" DEEP											2	YES	(CROME) MTD @ 6'-4" A.F.F.
40	WALL END BRACKET	ADVANCE TABCO (CENTAUR AS ALT.)	SB-18	1'-6"											4	YES	(CROME)
41	WALL MID BRACKET	ADVANCE TABCO (CENTAUR AS ALT.)	DB-18	1'-6"											5	YES	(CROME)
42	WIRE SHELVING	METRO	1848MS	4'-0" X 1'-6" DEEP											2	YES	(STAINLESS STEEL) MTD @ 6'-4" A.F.F.
43	WALL END BRACKET	METRO	1W018S	1'-6"											2	YES	(STAINLESS STEEL)
44	WALL DOUBLE BRACKET	METRO	2W018S	1'-6"											1	YES	(STAINLESS STEEL)
45	SECURITY DRIVER DROP BOX	NMI	DD-660	23"X7"X7"											1		
46	FOOD PROCESSOR	WARING	WFP11S		115		5								1	YES	COUNTER TOP MODEL
47	REFRIGERATED PREP UNIT	DELFIELD	CTP 8146-NB	46"LX17"Dx12 9/16"H	115		4								1	YES	COUNTER TOP MODEL
48	HEATED SHELF FOOD WARMER	HATCO	GRS-72-J	72"W X 21 1/2"D	120					1.05					2	YES	
49	INDUCTION THERMAL DELIVERY HEATER	COOKTEK	PTDS100	20.19"Wx21.63"Dx8.55"H	120		15			1.8					1	YES	ON SHELF @ ITEM #28
50	SHELVING	ELKAY FOODSERVICE	BWMS-18-48	4'-0"L X 1'-6" W											1	YES	MTD @ 6'-4" A.F.F.
51	WIRE SHELVING & POSTS	ADVANCE TABCO (CENTAUR AS ALT.)		4'-6" X 2'-0" DEEP											2	YES	(GREEN EPOXY COATED)
52	STAINLESS STEEL TABLE	ADVANCE TABCO (EAGLE AS ALT.)	HLAG-306	7'-0" X 2'-6" DEEP											1	YES	SS W/ LEGS, SHELF AND BACKSPLASH



SARPINO'S TENANT FINISH

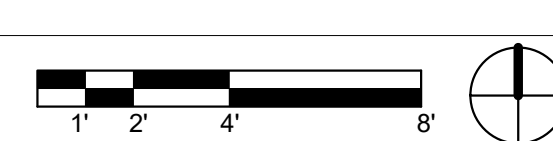
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EQUIPMENT PLAN

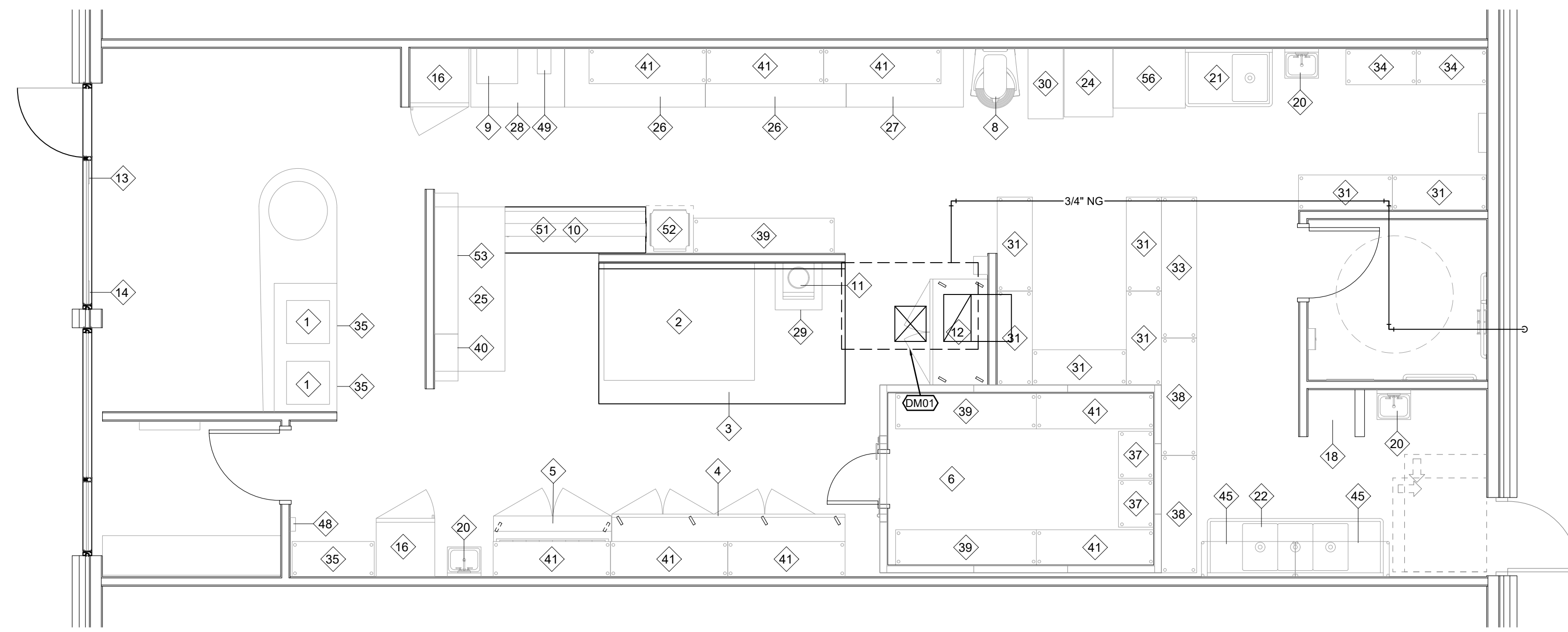
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Q111

1 EQUIPMENT PLAN

1/4" = 1'-0"



FLOOR PLAN-MECHANICAL, PLUMBING, & ELECTRICAL DEMOLITION 

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

DM## FLOOR PLAN NOTES

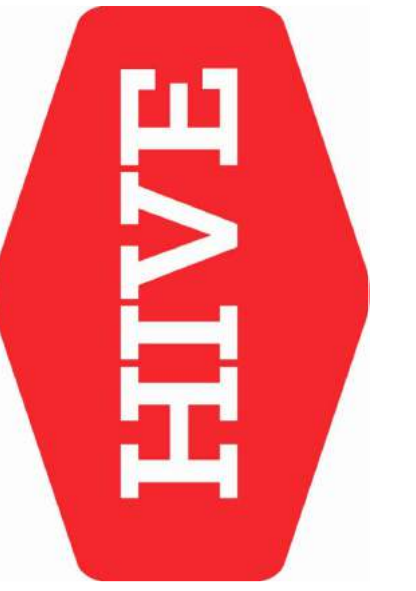
- DISCONNECT AND REMOVE ROOFTOP UNIT. PREPARE FOR INSTALLATION OF NEW.

DP## FLOOR PLAN NOTES

- TEXT

DE## FLOOR PLAN NOTES

- TEXT



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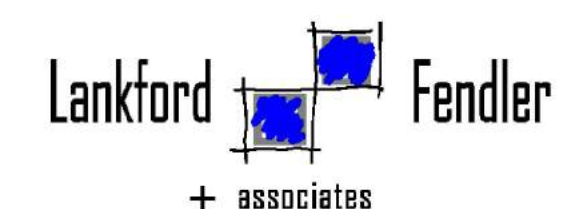
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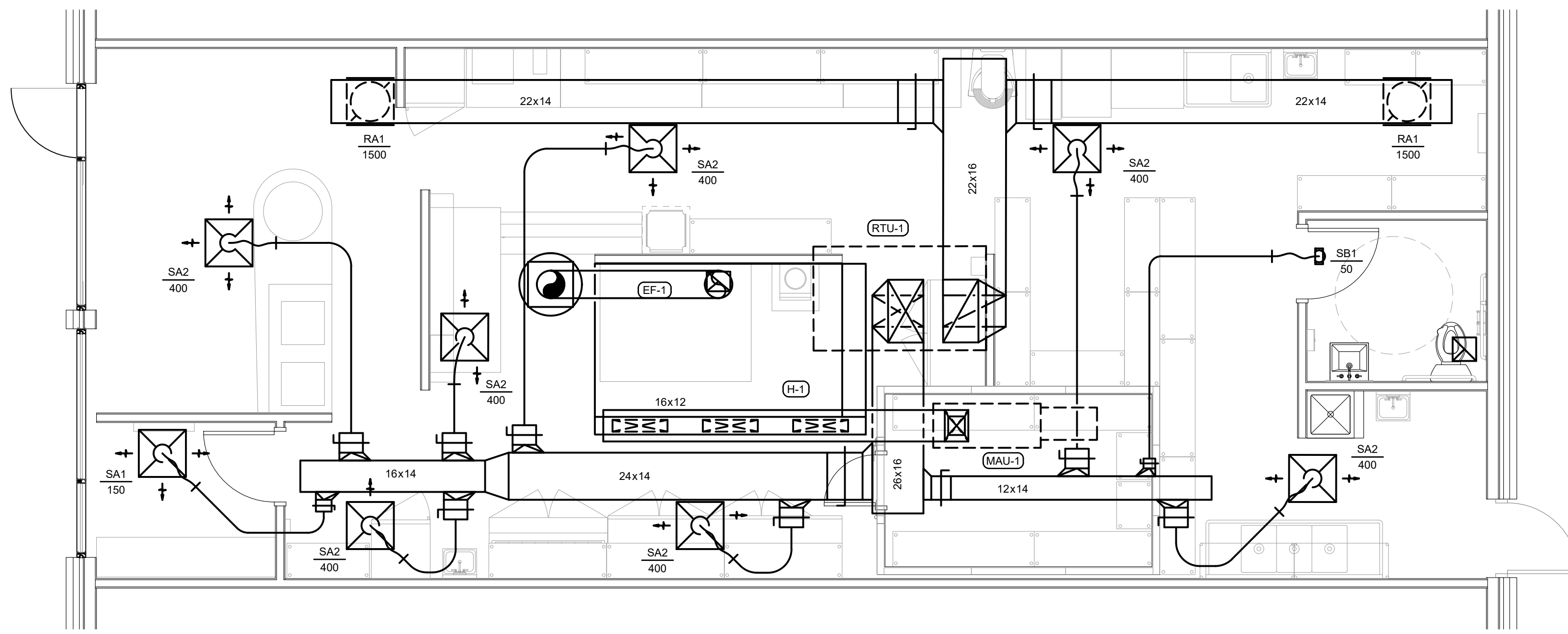


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1915 Frederick Avenue, St. Joseph, Missouri 64501
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**FLOOR
PLAN-MECH.,
PLUMB., &
ELEC. DEMO**

sheet number

MEP101



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

FLOOR PLAN NOTES

1. TEXT



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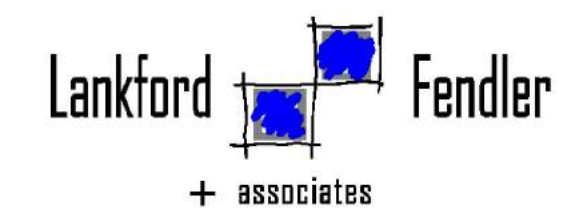
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FLOOR PLAN-MECHANICAL NEW WORK

sheet number

M111

GENERAL NOTES (TYPICAL ALL SHEETS)

- A. MECHANICAL CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING DUCTWORK SHOWN ON DRAWINGS IS SCHEMATIC AND IS BASED ON EXISTING RECORD DRAWINGS PROVIDED BY THE OWNER AND DO NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- C. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- E. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- F. MECHANICAL CONTRACTOR SHALL REMOVE, PATCH AIR TIGHT AND REINSULATE ALL DUCTWORK TAPS NOT REUSED WITH SAME MATERIAL AS EXISTING DUCTWORK.
- G. ALL REMOVED DEVICES THAT ARE BEING REUSED FOR NEW CONSTRUCTION SHALL BE CLEANED OF ALL DIRT AND STORED ON SITE.
- H. MECHANICAL CONTRACTOR SHALL AIR BALANCE ALL GRILLES TO CFMS SHOWN ON PLANS.
- I. ALL THERMOSTATS SHALL BE MOUNTED TO MATCH BUILDING STANDARDS UNLESS OTHERWISE NOTED.
- J. MECHANICAL CONTRACTOR SHALL PROVIDE NEW 1" FARR TYPE PLEATED FILTERS ON ALL TERMINAL BOXES WHICH ARE IN PROJECT SCOPE OF WORK PRIOR TO BALANCING. PROVIDE TEMPORARY FILTERS ON RETURN AIR OPENINGS DURING CONSTRUCTION.
- K. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND RETAINING ALL TEMPERATURE CONTROLS FROM EXISTING FAN POWERED BOXES AND VAV BOXES FOR REINSTALLATION UNDER NEW WORK. UPON REINSTALLATION, CONTRACTOR SHALL VERIFY PROPER OPERATION AND NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING IF PROBLEMS ARE FOUND.
- L. ALL DUCTWORK, DIFFUSERS, TERMINAL UNITS, ETC. ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
- M. MECHANICAL CONTRACTOR SHALL BID WORK IN CEILING SPACE BELOW TO BE COMPLETED AFTER HOURS ONLY IN AREAS THAT ARE NOT OCCUPIED BY THE OWNER'S PERSONNEL. CONTRACTOR SHALL COORDINATE WORK/TIMES WITH THE OWNER'S REPRESENTATIVE.
- N. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL DUCTS, PIPES, ETC. PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL DUCTS, PIPES, ETC. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- O. MECHANICAL CONTRACTOR SHALL BID AND SCHEDULE ALL CORE DRILLING AND HAMMER DRILLING FOR AFTER BUSINESS HOURS.
- P. MECHANICAL CONTRACTOR SHALL SCAN FLOOR UTILIZING GROUND PENETRATING RADAR PRIOR TO ANY CORE DRILLING OR SAW CUTTING OF SLAB AND SHALL VERIFY PLACEMENT WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO DRILLING.
- Q. MECHANICAL CONTRACTOR SHALL COORDINATE ALL TEMPERATURE CONTROL WORK WITH BUILDING OWNER. BUILDING SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES.
- R. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- S. ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 25/50 FLAME AND SMOKE RATED, HELLERMANN TYTON T50R2C2UL OR EQUIVALENT.
- T. REPLACE EXISTING THERMOSTATS/SENSORS WITH NEW. THERMOSTAT COVERS SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED. THERMOSTATS/SENSORS SHALL BE INSTALLED AND CALIBRATED PRIOR TO TEST AND BALANCE. INTEGRATE NEW DIGITAL THERMOSTATS/SENSORS INTO THE EXISTING BUILDING ENERGY MANAGEMENT SYSTEM AS REQUIRED.

MECHANICAL SYMBOLS

- OR EXISTING DUCTWORK TO BE REMOVED
- OR EXISTING DUCTWORK TO REMAIN
- OR NEW DUCTWORK
- SUPPLY DUCT
- RETURN DUCT
- EXHAUST DUCT
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- RISE OR DROP IN DUCT
- THERMOSTAT, MOUNT TOP AT 48" AFF.
- MANUAL VOLUME DAMPER
- SUPPLY DUCT DOWN
- SUPPLY DUCT UP
- RETURN DUCT DOWN
- RETURN DUCT UP
- EXHAUST DUCT DOWN
- EXHAUST DUCT UP
- WALL MOUNTED DIFFUSER/GRILLE
- FLEXIBLE DUCT CONNECTION
- CONDENSATE DRAIN
- EQUIPMENT TYPE AND DESIGNATION
- MARK NO. SUPPLY (S), RETURN (R), EXHAUST (E)
CFM
- CONNECT TO EXISTING

ADD FIRE STOPPING DETAILS

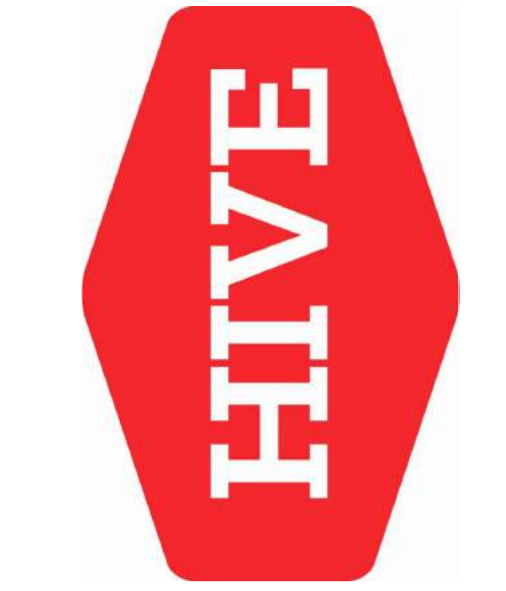
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+ associates

1720 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429

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MECHANICAL
SCHEDULES,
GENERAL NOTES,
& SYMBOLS

sheet number

M211

FOR QUESTIONS, CALL THE
HBT Foodservice
Dan Hertenstein
PHONE: (816) 221-8575
EMAIL: reg98@captiveaire.com

PATENT NUMBERS

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

HOOD INFORMATION - JOB#4735703

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL			SP	END TO END
1	PIZZA OVEN HOOD	7824 ND-2-PO-3-PSP-F	CAPTIVEAIRE	10' 6"	600 DEG	I	HEAVY	167	1750							430 SS WHERE EXPOSED	ALONE	ALONE	

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)			EFFICIENCY @ 7 MICRONS	QTY	LIGHT(S)		WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)		ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
			QTY	HEIGHT	LENGTH			TYPE	TYPE				SIZE					
1	PIZZA OVEN HOOD	SS BAFFLE WITH HANDLES	7	16"	16"	30%	3	RECESSED	NO	RIGHT	12"x78"x24"	ANSUL R102	3.0	DCV-1111	1 LIGHT 1 FAN	YES	925 LBS	

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	PIZZA OVEN HOOD	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. BACKSPLASH 80.00" HIGH X 138.00" LONG 430 SS VERTICAL. RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. INSULATION FOR TOP OF HOOD. INSULATION FOR BACK OF HOOD. WALL END CAP 120.00" HIGH X 5.50" WALL WIDTH, 2.00" LEGS 430 SS. WALL END CAP 120.00" HIGH X 5.50" WALL WIDTH, 2.00" LEGS 430 SS.

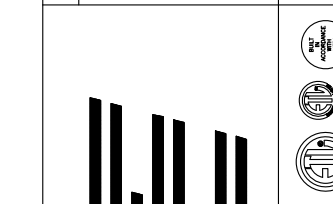
PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1	PIZZA OVEN HOOD	Front	138"	9"	6"	MJA	6"	28"		333	0.092"
						MJA	6"	28"		333	0.092"
						MJA	6"	28"		333	0.092"

FIRE SYSTEM INFORMATION - JOB#4735703

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1	FS1	ANSUL R102	3.0	3	FIRE CABINET RIGHT	RIGHT, HOOD 1

REVISIONS	
DESCRIPTION	DATE



CAPTIVE AIRE

HBT Foodservice
104 W 9th St Suite 204, Kansas City, MO 64105 PHONE: (816) 221-8575 FAX: (816) 221-8311 EMAIL: reg98@captiveaire.com

Sarpino's - West Olathe
OLATHE, KS, 66061

DATE: 4/6/2021

DWG.#:
4735703

DRAWN BY: dan.herten

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

MASTER DRAWING

SHEET NO.
1

CAPTIVE-AIRE EQUIPMENT
BY OWNER - CONTRACTOR
TO RECIEVE AND INSTALL
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CONTACT REG98 FOR
ASSISTANCE: 816-221-8575



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OLATHE, KS 66061

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DRAWINGS**

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DESCRIPTION	DATE

CAPTIVE AIR

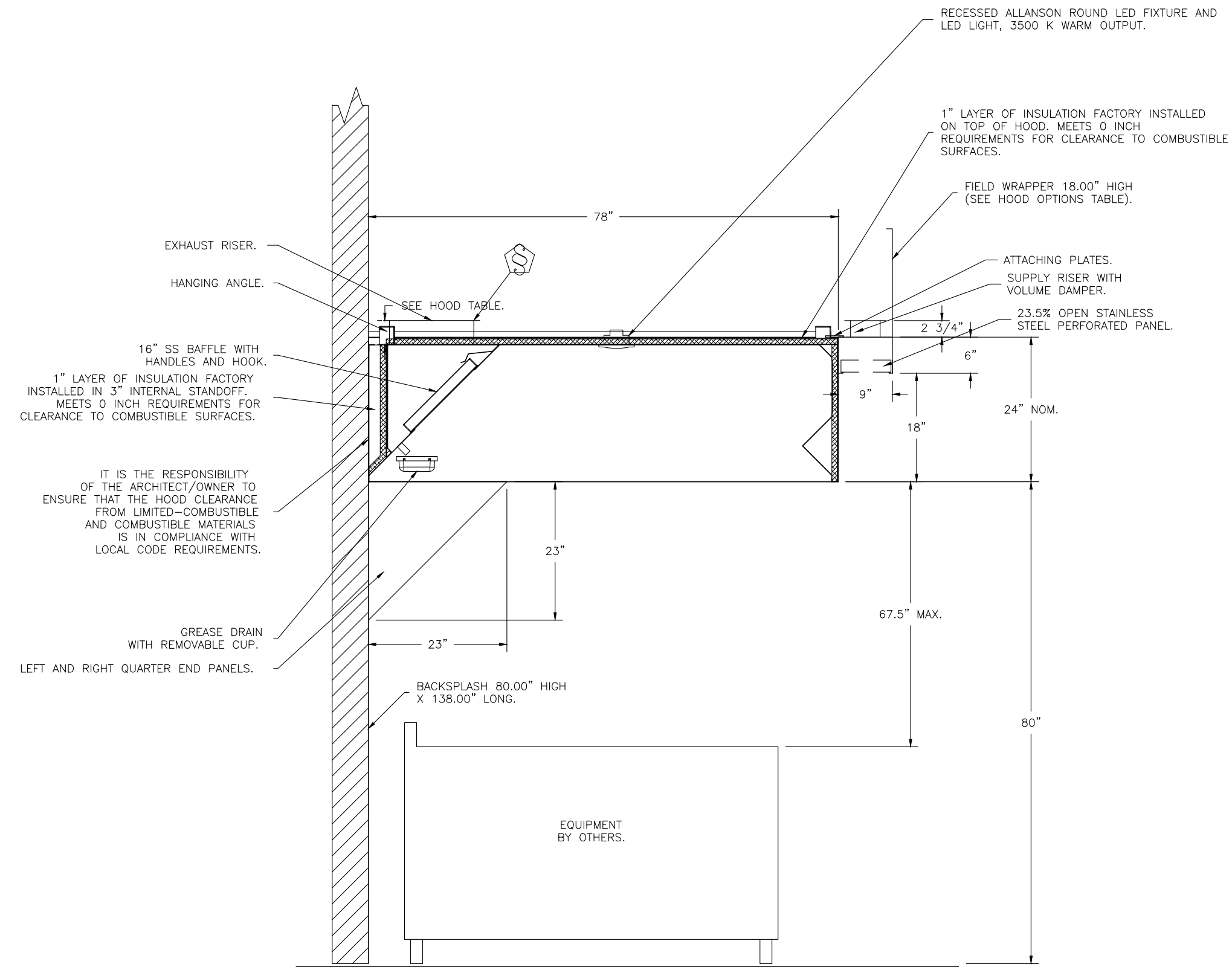
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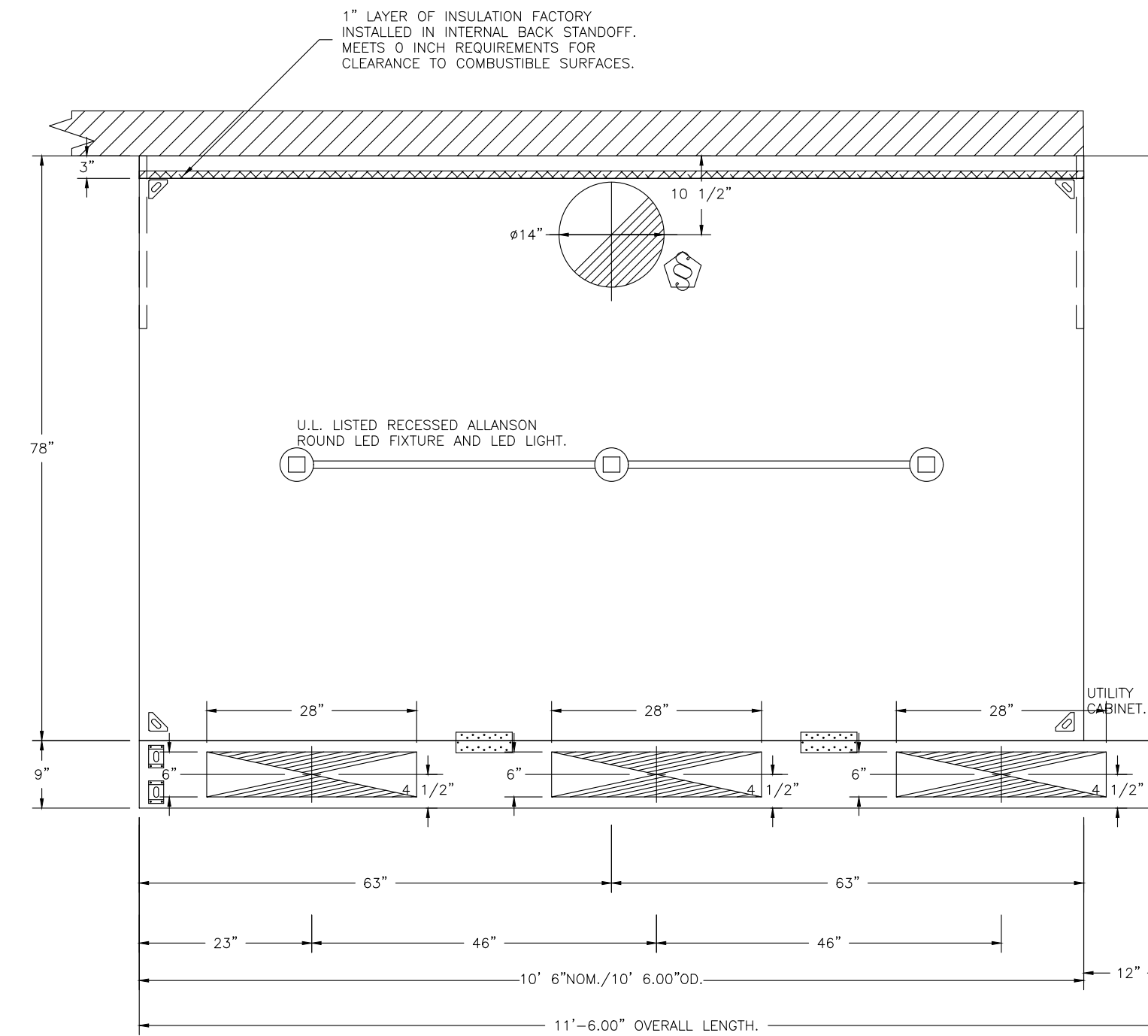
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DATE: 4/6/2021
DWG.#: 4735703
DRAWN BY: dan.herten
SCALE: 3/4" = 1'-0"
MASTER DRAWING

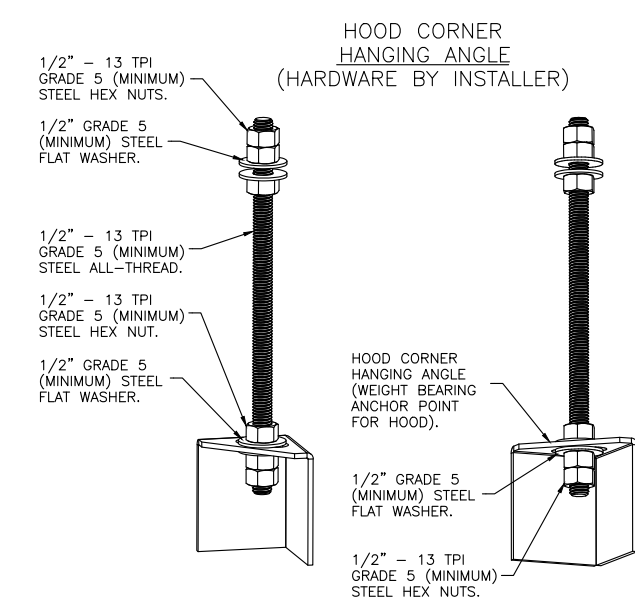
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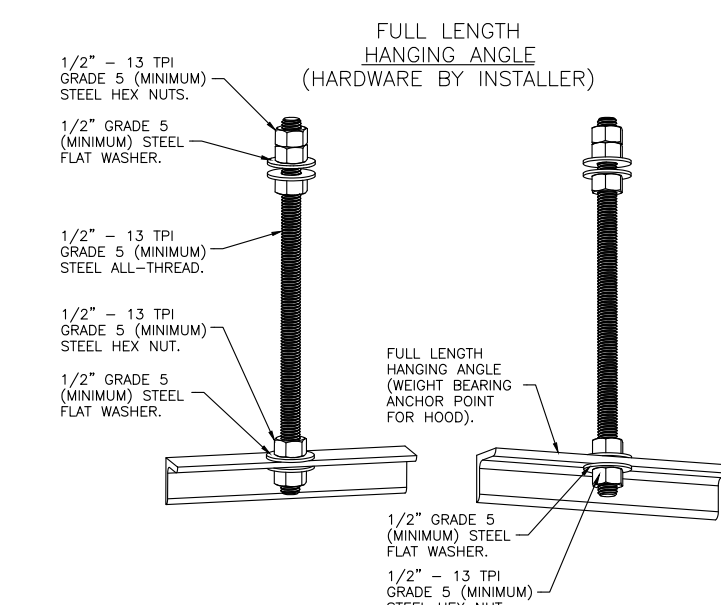
**SECTION VIEW - MODEL 7824ND-2-PQ-3-PSP-F
HOOD - #1 (PIZZA OVEN HOOD)**



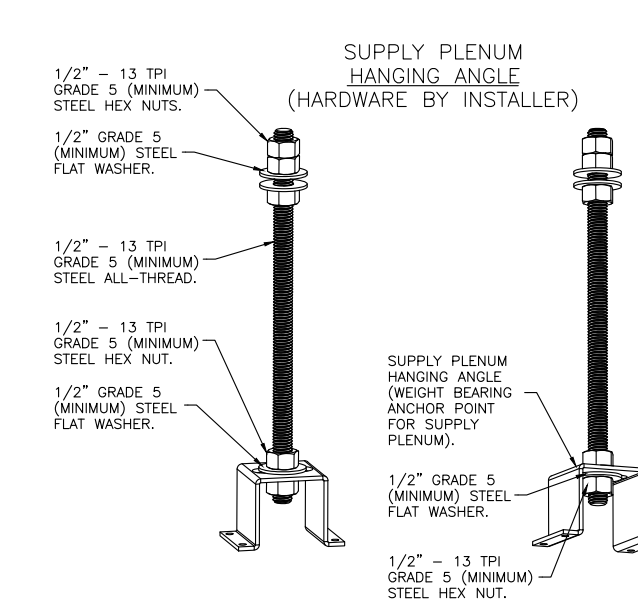
**PLAN VIEW - HOOD #1 (PIZZA OVEN HOOD)
10' 6.00\"/>**



ASSEMBLY INSTRUCTIONS
HANGING ANGLE MUST BE SUPPORTED WITH 1/2\"/>



ASSEMBLY INSTRUCTIONS
HANGING ANGLE MUST BE SUPPORTED WITH 1/2\"/>



ASSEMBLY INSTRUCTIONS
HANGING ANGLE MUST BE SUPPORTED WITH 1/2\"/>

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EXHAUST FAN INFORMATION - JOB#4735703

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF1	1	DUB5HFA	CAPTIVEAIRE	1750	1.500	1556	TEAO-ECM	1.000	0.6570	1	208	6.9	554 FPM	92	16.2

MUA FAN INFORMATION - JOB#4735703

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCF	WEIGHT (LBS)	SONES
2	MUA1	1	D76	G7D	D.6	600	1000	0.450	1792	TEAO-ECM	1.000	0.5430	1	208	6.9	8.7A	15A	306	22

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
2	MUA1	72718	66901	65°F	7 IN. W.C. - 14 IN. W.C.	NATURAL

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF1	1	GREASE BOX.
		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
		1	2 YEAR PARTS WARRANTY.
2	MUA1	1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED.
		1	INLET PRESSURE GAUGE, 0-35".
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC.
		1	MOTORIZED INTAKE DAMPER (D76).
		1	ECM WIRING PACKAGE-SUPPLY - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CW ROTATION.

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF1	YES					YES	
2	MUA1							

CURB ASSEMBLIES

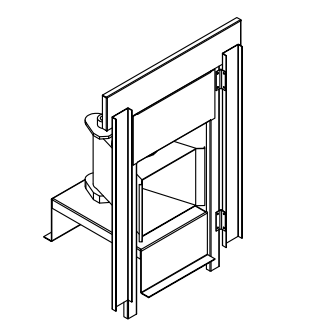
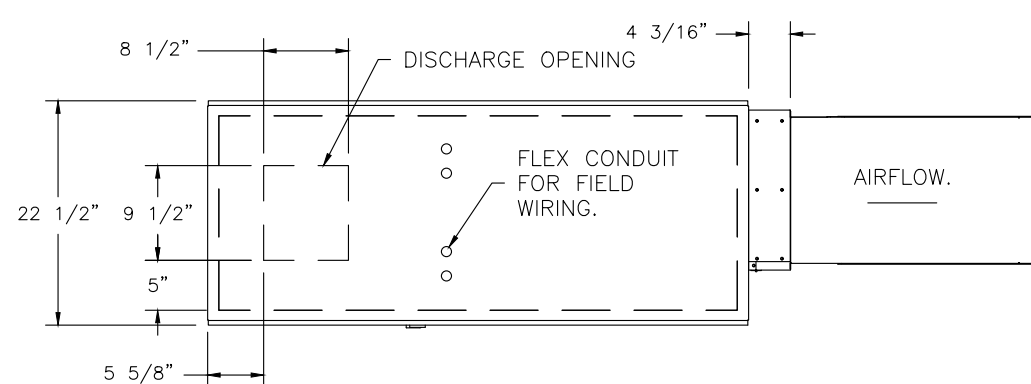
NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF1	32 LBS	CURB	23,000"W X 23,000"L X 20,000"H VENTED.
2	# 2	MUA1	50 LBS	CURB	19,500"W X 52,000"L X 14,000"H INSULATED.

FAN #2 D76B - HEATER (MUA1)

- LOW CFM DIRECT FIRED HEATER, DIRECT DRIVE.
- INTAKE HOOD WITH EZ FILTERS.
- DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
- CASLINK BUILDING MONITORING SYSTEM COMMUNICATIONS MODULE. REQUIRES INTERNET & FIELD WIRED ETHERNET CONNECTION OR SC CELLULAR SERVICE. INCLUDES REV 3 COMM MODULE, RJ45 TO MODBUS CONVERTER, 3 FT CAT5 CABLE, AND 1 FT OF SHIELDED TWISTED PAIR.
- GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
- GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
- MOTORIZED BACK DRAFT DAMPER 13" X 17" FOR D76 COMPACT DIRECT FIRED HEATERS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, TR1205 ACTUATOR INCLUDED.
- ECM WIRING PACKAGE FOR SUPPLY MOTORS WITH PWM SIGNAL FROM ECPM03 PREWIRE.
- 2 YEAR PARTS WARRANTY.

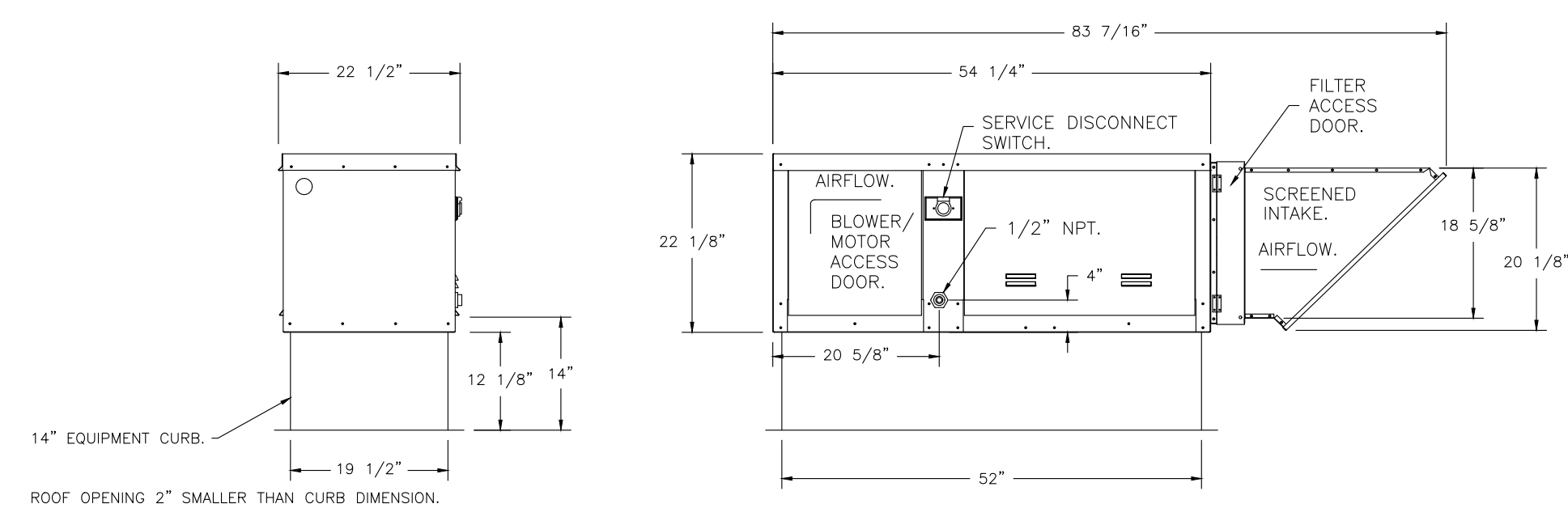
SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 10°F, TEMP. RISE = 65°F.
BTUH CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUH AT ALTITUDE OF 0.0 FT. = 69442.
INPUT BTUH AT ALTITUDE OF 0.0 FT. = 75481.
OUTPUT BTUH AT ALTITUDE OF 1028 FT. = 66901.
INPUT BTUH AT ALTITUDE OF 1028 FT. = 72718.

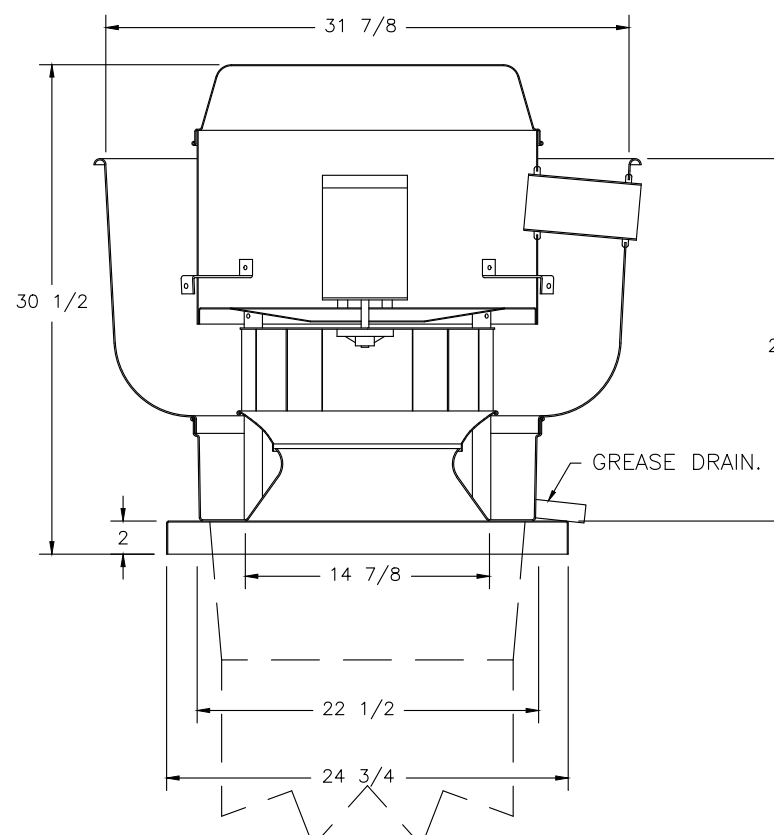


DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

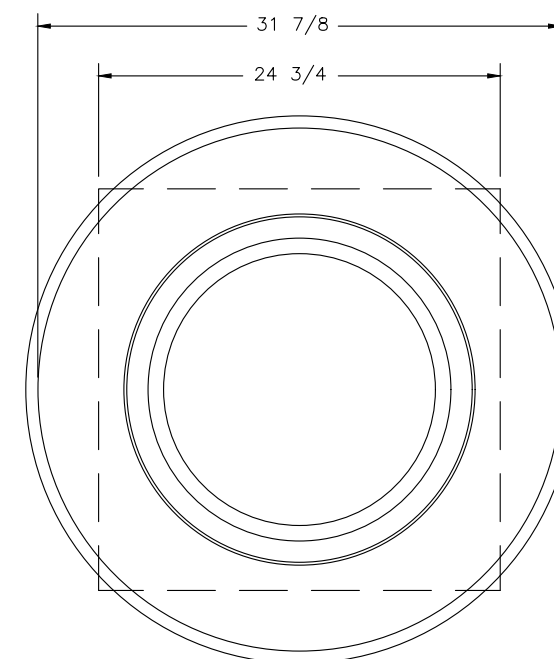
DIRECT FIRED PROFILE PLATE SPECIFICATIONS:
DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US662952B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 50% OF CARBON MONOXIDE (CO) AND 10% OF UNBURNED HYDROCARBON (HC) DROplets. DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BURNER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.
APPLICATION:
SPRING-BIASED SHOWER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL OF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.
CERTIFICATIONS:
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE IF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING OF HEATERS) AND ANSI Z83.16 (RECIRCULATING OF HEATERS).
GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-SECTOR SHALL INCORPORATE PROTECTIVE FINGERES, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.



ROOF OPENING 2" SMALLER THAN CURB DIMENSION.



TOP VIEW



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-5645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST

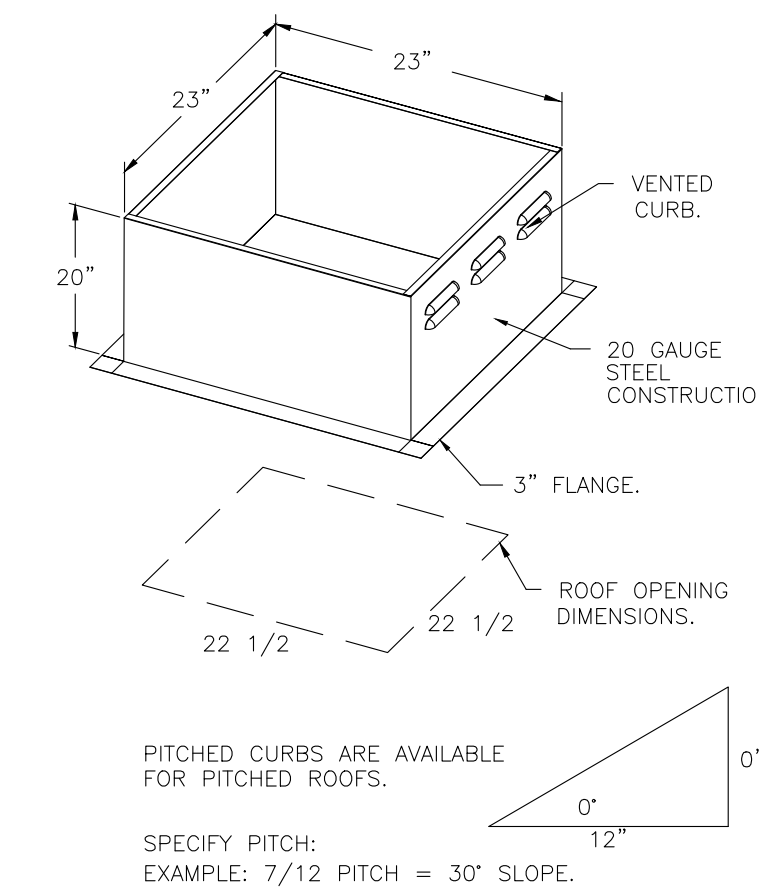
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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.
- ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



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

REVISIONS	
DESCRIPTION	DATE

CAPTIVE



HBT Foodservice
104 W 9th St Suite 204, Kansas City, MO 64105 PHONE: (816) 221-8575 FAX: (816) 221-8311 EMAIL: reg98@captiveair.com

Sarpino's - West Olathe
OLATHE, KS, 66061

DATE: 4/6/2021
DWG.#: 4735703

DRAWN BY: dan.herten

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

MASTER DRAWING

SHEET NO. 3

CAPTIVE-AIRE EQUIPMENT BY OWNER - CONTRACTOR TO RECEIVE AND INSTALL ONLY. CONTACT REG98 FOR ASSISTANCE: 816-221-8575



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DUCTWORK #1 PARTS - JOB#4735703 DOUBLE WALL										
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1435DWLT-2R-S	1838				-0.0151	46.53	1719.34	1	DOUBLE WALL DUCT - 14" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P2	DW1427DWJD-2R-S	1838				-0.0089	52.12	1719.34	1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 24.5" / ADJUSTMENT = 13.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3	DW1447DWLT-2R-S	1838				-0.021	62.39	1719.34	1	DOUBLE WALL DUCT - 14" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P4	DW14RISER	1838				-0.002	2.25	1719.34	1	SINGLE WALL DUCT RISER FOR WELDED HOODS, 14" DIA DUCT. STAINLESS STEEL.
P5	DW23514TP	1838				-1.851	0.00	1719.34	1	DUCT TO CURB TRANSITION, 23.50" CURB TO 14" DUCT, 16 GA ALUMINIZED. MISC. NON-STANDARD TRANSITION PLATE.
	3M-2000PLUS						0.80		1	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
TOTAL WEIGHT							176.09			

SINGLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (FT)	VERTICAL WALL SUPPORT (FT)	VERTICAL CURB SUPPORT (FT)
5"	10'	10'	24'
6"	10'	10'	24'
7"	10'	10'	24'
8"	10'	10'	24'
10"	10'	10'	24'
12"	10'	10'	24'
14"	10'	10'	24'
16"	10'	10'	24'
18"	10'	10'	24'
20"	10'	10'	24'
22"	10'	10'	24'
24"	10'	10'	24'
26"	10'	10'	24'
28"	10'	10'	24'
30"	10'	10'	24'
32"	10'	10'	24'
34"	10'	10'	24'
36"	10'	10'	24'

DOUBLE WALL FACTORY BUILT DUCTWORK

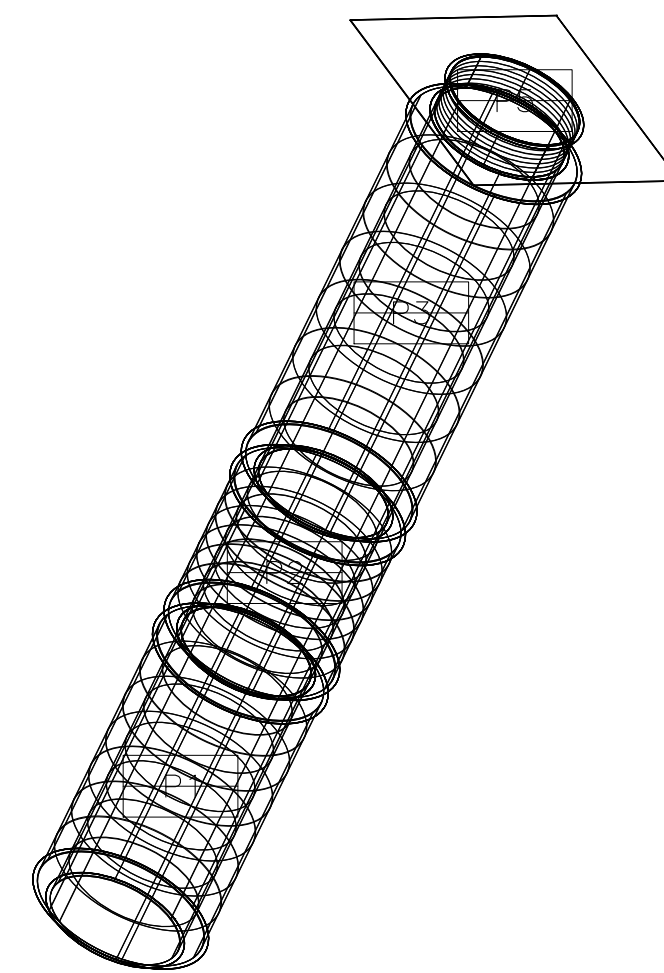
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

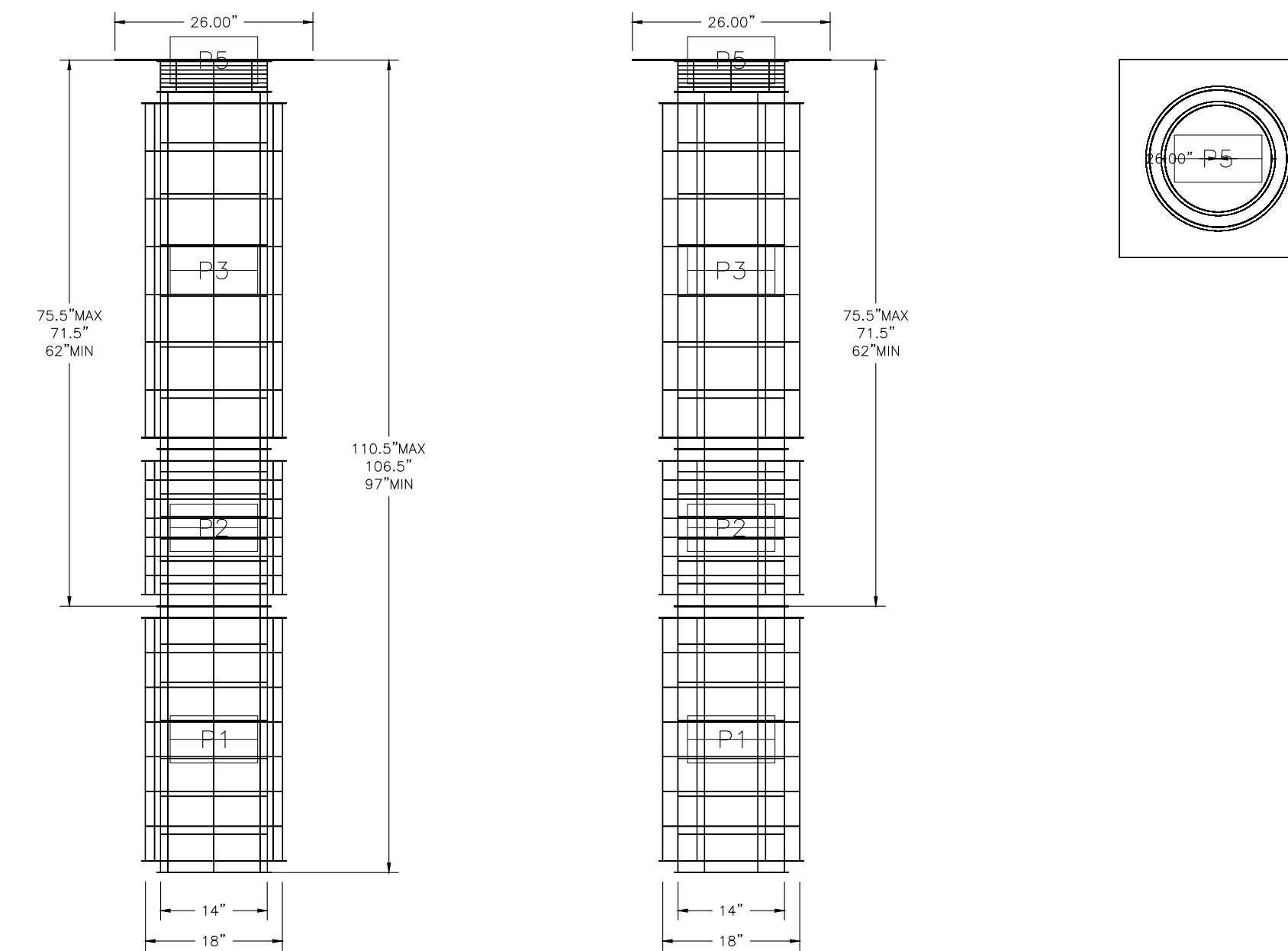
VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5"-16")	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5"-24")	10'	24'	24'
3Z (26"-36")	10'	20'	20'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

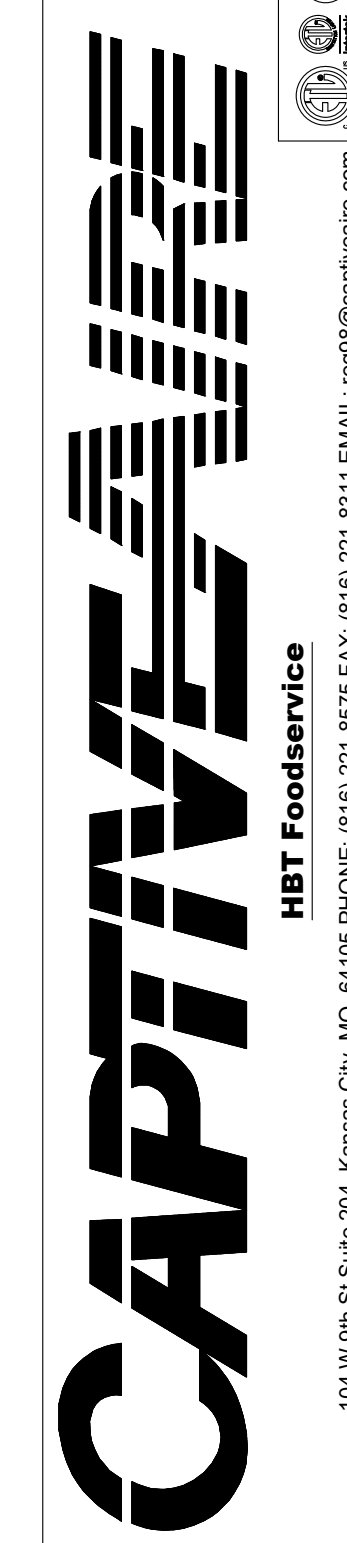
DUCTWORK #1 SE VIEW



DUCTWORK #1 FRONT VIEW DUCTWORK #1 SIDE VIEW DUCTWORK #1 TOP VIEW



REVISIONS	
DESCRIPTION	DATE

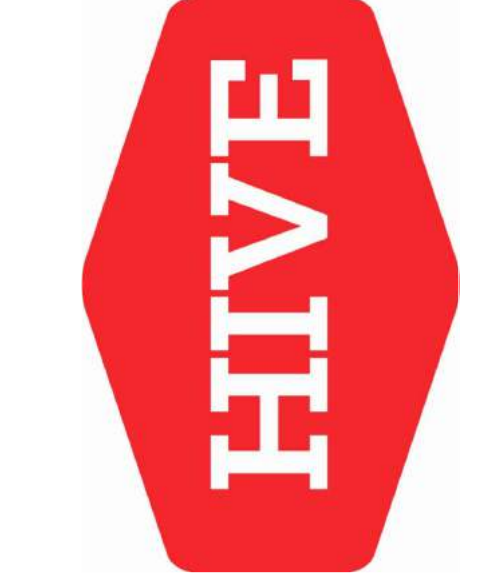


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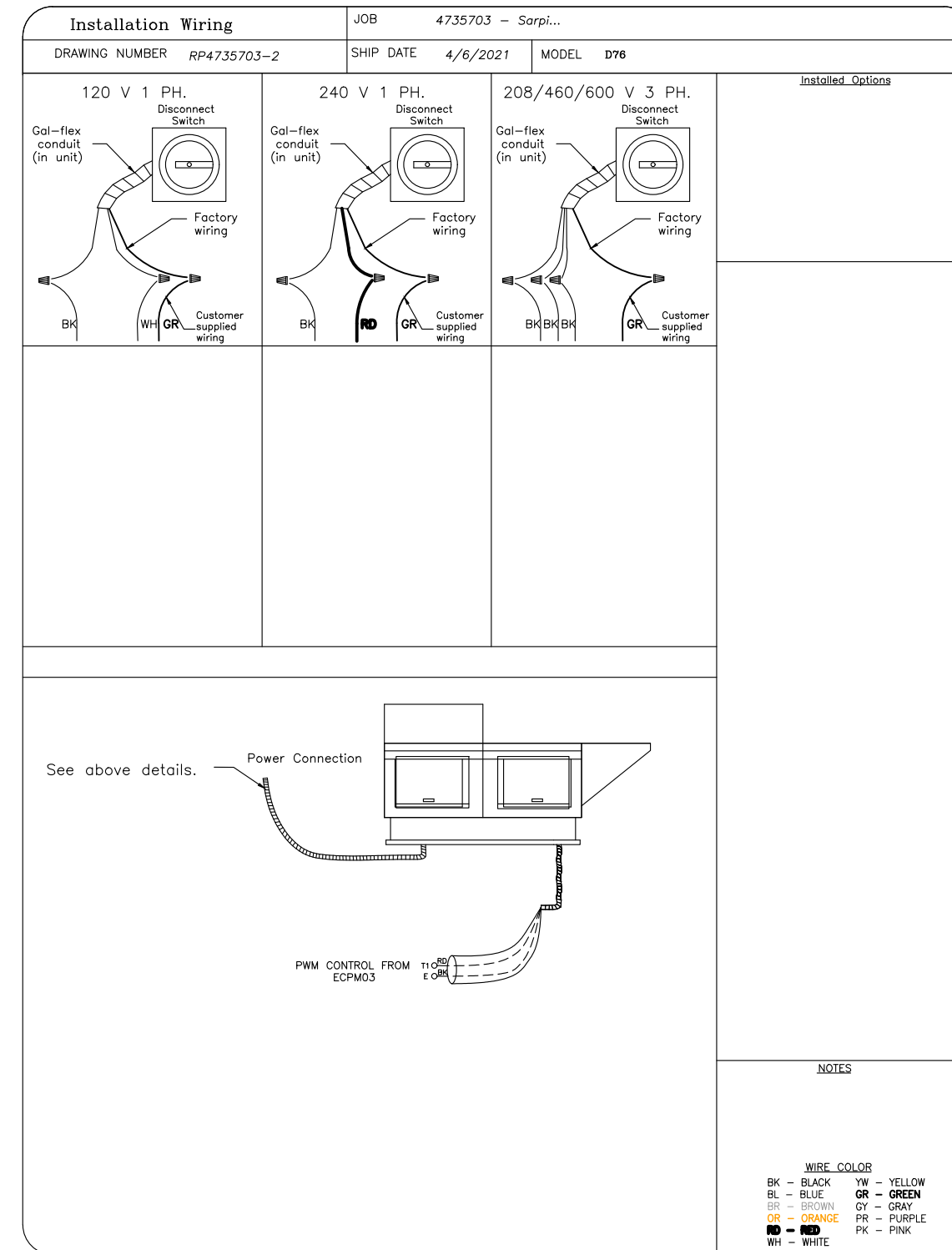
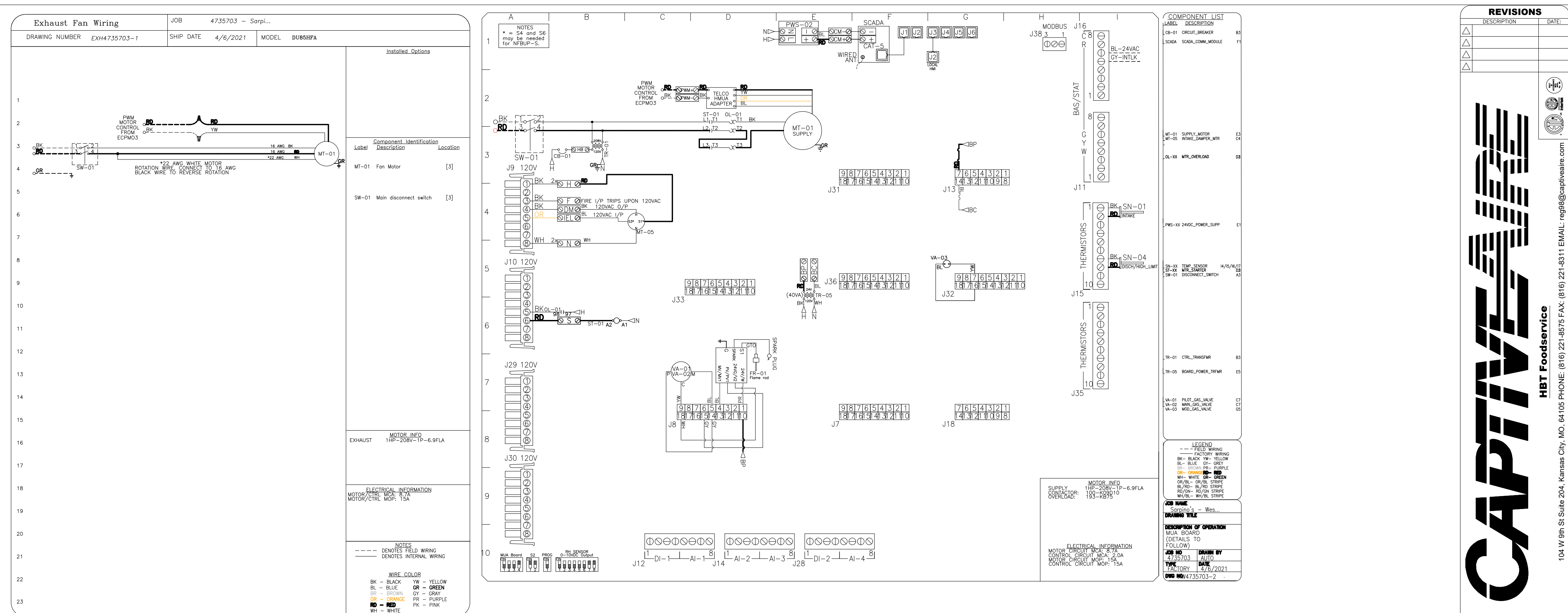
HBT Foodservice
 104 W 9th St Suite 204, Kansas City, MO 64105 PHONE: (816) 221-8575 FAX: (816) 221-8311 EMAIL: reg98@captiveair.com

Sarpino's - West Olathe
 OLATHE, KS, 66061

DATE: 4/6/2021
DWG.#: 4735703
DRAWN BY: dan.herten
SCALE: 3/4" = 1'-0"
MASTER DRAWING

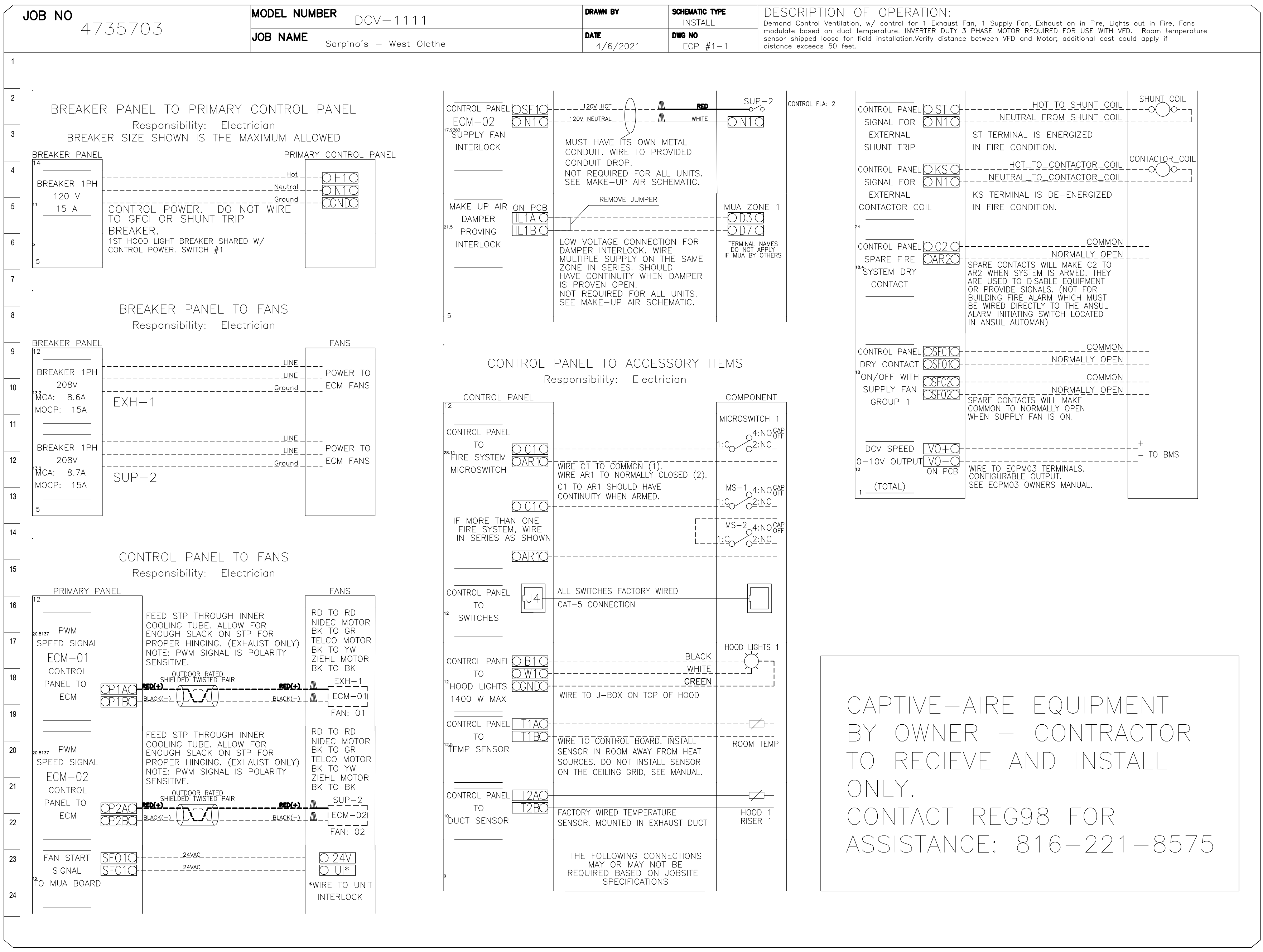
SHEET NO.
5

CAPTIVE-AIRE EQUIPMENT BY OWNER - CONTRACTOR TO RECIEVE AND INSTALL ONLY. CONTACT REG98 FOR ASSISTANCE: 816-221-8575



ELECTRICAL PACKAGE - JOB#4735703

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	HP	VOLT	FLA	
1	EC1	DCV-1111	UTILITY CABINET RIGHT	04 - UTILITY CABINET RIGHT HOOD # 1	1 LIGHT	SMART CONTROLS DCV	KEF1	EXHAUST	1	1.000	208	6.9
					1 FAN		MUA1	SUPPLY	1	1.000	208	6.9



CAPTIVE-AIRE EQUIPMENT BY OWNER - CONTRACTOR TO RECIEVE AND INSTALL ONLY. CONTACT REG98 FOR ASSISTANCE: 816-221-8575

CAPTIVE-AIRE

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Sarpino's - West Olathe
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DATE: 4/6/2021
DWG.#: 4735703
DRAWN BY: dan.herten
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 6



FOR REFERENCE ONLY

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 OLATHE, KS 66061

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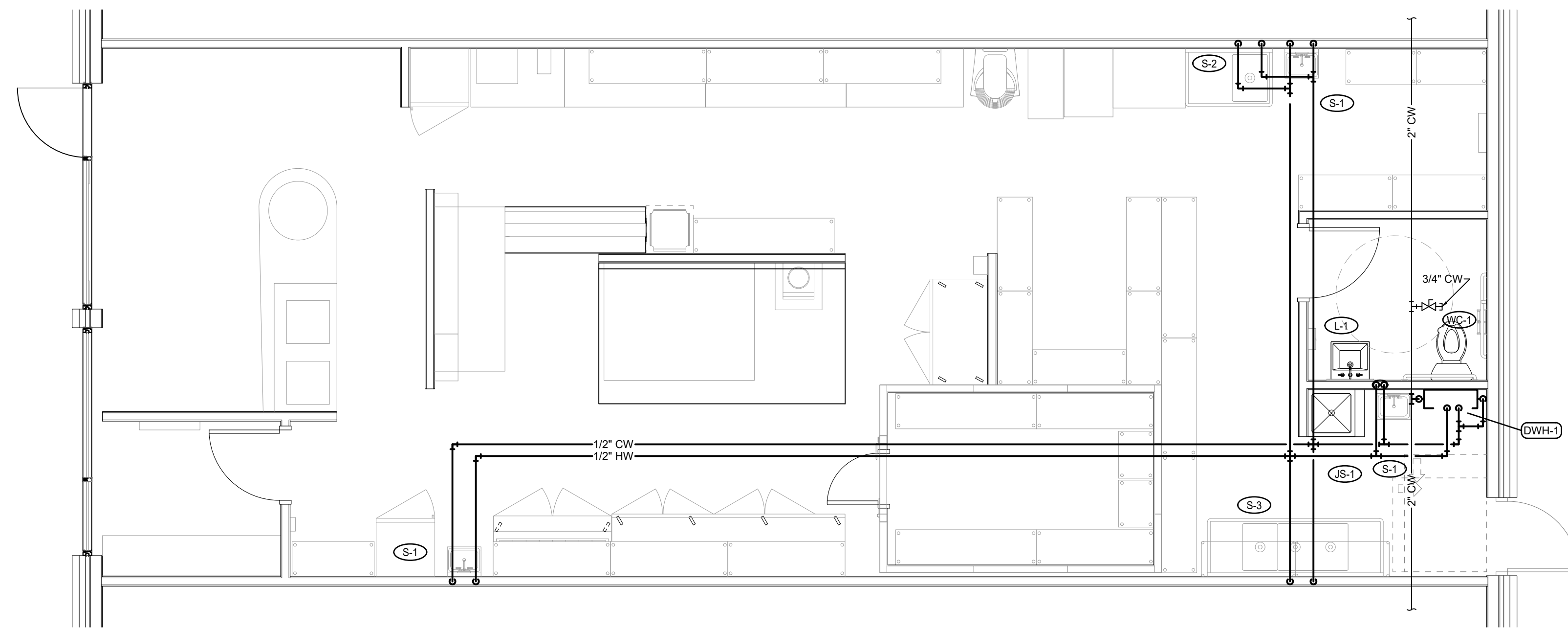
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rev date description

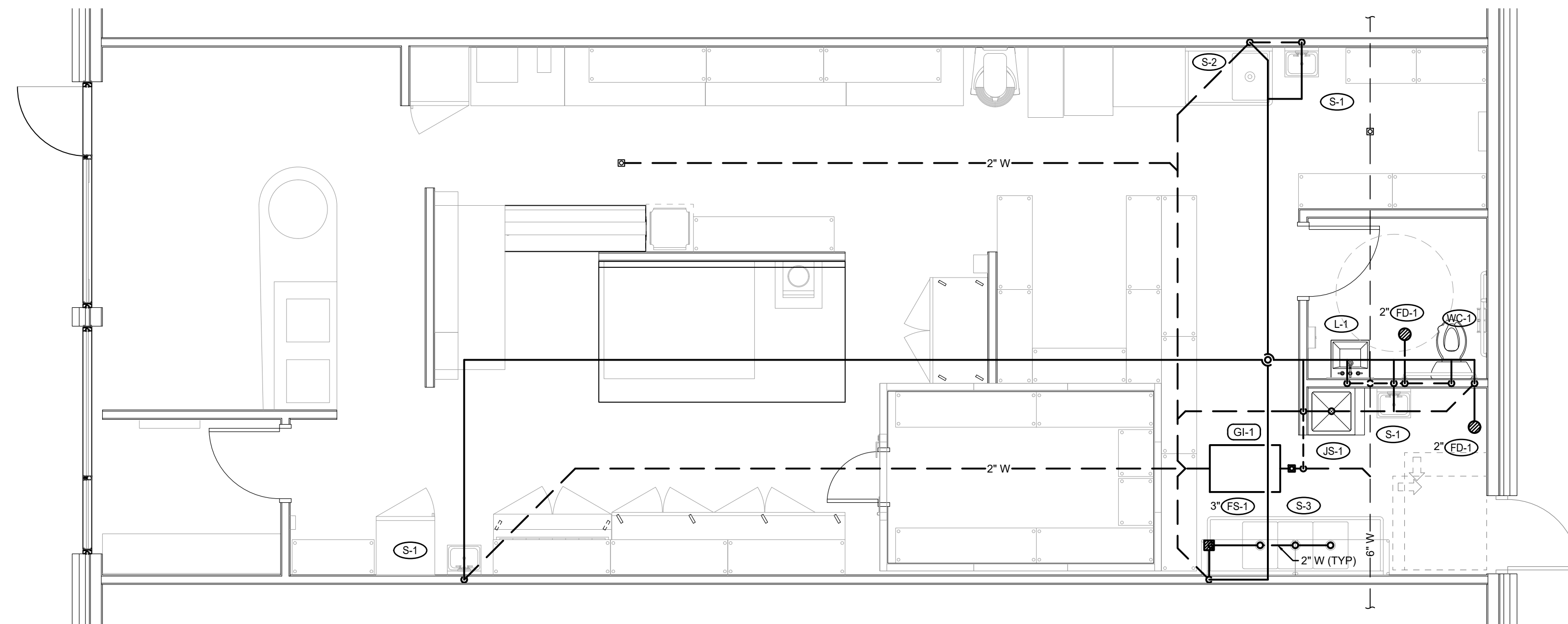
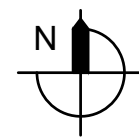
KITCHEN DRAWINGS

M312



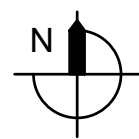
FLOOR PLAN-WATER/GAS PIPING

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



FLOOR PLAN-WASTE & VENT

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



FLOOR PLAN NOTES

1. TEXT



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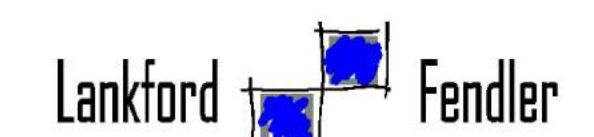
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**FLOOR PLAN-
PLUMBING
NEW WORK**

sheet number



+ associates

1720 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429

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P111

GENERAL NOTES (TYPICAL ALL SHEETS)

- A. PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING PIPING SHOWN ON DRAWINGS IS SCHEMATIC AND IS BASED ON EXISTING RECORD DRAWINGS PROVIDED BY THE OWNER AND DO NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- C. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- E. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- F. PLUMBING CONTRACTOR SHALL BID WORK IN CEILING SPACE BELOW TO BE COMPLETED AFTER HOURS ONLY IN AREAS THAT ARE NOT OCCUPIED BY THE OWNER'S PERSONNEL. CONTRACTOR SHALL COORDINATE WORK/TIMES WITH THE OWNER'S REPRESENTATIVE.
- G. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- H. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT BY OTHERS. VERIFY CONNECTIONS SIZES AND REQUIREMENTS.
- I. PIPING ROUTED BELOW COUNTER IN CABINETS SHALL BE ROUTED AS NOTED. NOT TO INTERFERE WITH DRAWERS, SHELVES, EQUIPMENT, ETC., AND SUPPORT FROM BACK WALL OF CABINET.
- J. PLUMBING CONTRACTOR SHALL BID AND SCHEDULE ALL CORE DRILLING AND HAMMER DRILLING FOR AFTER BUSINESS HOURS.
- K. PLUMBING CONTRACTOR SHALL SCAN FLOOR UTILIZING GROUND PENETRATING RADAR PRIOR TO ANY CORE DRILLING OR SAW CUTTING OF SLAB AND SHALL VERIFY PLACEMENT WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO DRILLING.
- L. PLUMBING CONTRACTOR SHALL PROVIDE PRO-SET SYSTEMS 'TRAP GUARD' IN ALL FLOOR DRAIN TRAPS WITHIN PROJECT SCOPE OF WORK.
- M. PLUMBING CONTRACTOR SHALL VERIFY WALL THICKNESS WITH ARCHITECT PRIOR TO ORDERING FREEZE PROOF WALL HYDRANTS.
- N. (DESIGNER NOTE: INCLUDE ONLY FOR JOHNSON COUNTY WASTE WATER IF PROJECT INCLUDES ELEVATOR SUMP) THE SEWER USE CODE DOES NOT ALLOW ELEVATOR SHAFT DISCHARGE FROM STORM OR GROUND WATER TO DISCHARGE INTO THE SANITARY SEWER SERVICE. EXTERIOR SURFACE WATER RUN-OFF OR GROUND WATER ENTERING THROUGH THE ELEVATOR SHAFT CAUSING ALARM MUST BE PUMPED AND HAULED OFF SEPARATELY.
- O. (DESIGNER NOTE: INCLUDE ONLY FOR JOHNSON COUNTY WASTE WATER IF PROJECT INCLUDES TYING INTO EXTERIOR PIPING.) ALL EXTERIOR SANITARY SEWER PLUMBING FROM THE BUILDING FOUNDATION TO THE CONNECTION POINT SHALL MEET JOHNSON COUNTY WASTEWATER (JCW) STANDARDS AND REQUIREMENTS AND ALSO, SHALL BE INSPECTED BY A JCW INSPECTOR.
- P. (DESIGNER NOTE: INCLUDE ONLY FOR JOHNSON COUNTY WASTE WATER IF PROJECT INCLUDES TYING INTO EXTERIOR PIPING.) BEFORE THE INTERIOR PIPING IS COVERED, THE PIPING SHALL BE INSPECTED BY JOHNSON COUNTY WASTEWATER TO CONFIRM ALL GREASE PRODUCING FIXTURES ARE CONNECTED TO THE GREASE INTERCEPTOR, NON-GREASE PRODUCING FIXTURES ARE NOT CONNECTED TO THE INTERCEPTOR AND TO CONFIRM INTERIOR PIPE SLOPE (IF THE PIPE SLOPE SIZING METHODOLOGY WAS USED) IN ACCORDANCE WITH THE SEWER USE CODE. ANY GREASE WASTE PIPING THAT IS NOT VISIBLE AT THE TIME OF JOHNSON COUNTY WASTE WATER INSPECTION SHALL BE UNCOVERED FOR INSPECTION. JOHNSON COUNTY WASTE WATER NOTIFIES PERMITTEE AND CONTRACTORS OF THE INSPECTION REQUIREMENTS ON THE PERMIT, THE PERMITTED DRAWINGS AND BY SEPARATE EMAIL.
- Q. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- R. ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 25/50 FLAME AND SMOKE RATED, HELLERMANN TYTON T50 R2C2UL OR EQUIVALENT.

PLUMBING SYMBOLS

	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW PIPING
	FLOW ARROW
	COLD WATER
	FIRE PROTECTION
	HOT WATER
	HOT WATER RETURN
	NATURAL GAS
	COMPRESSED AIR
	SANITARY VENT ABOVE GROUND/FLOOR
	SANITARY VENT BELOW GROUND/FLOOR
	SANITARY WASTE ABOVE GROUND/FLOOR
	SANITARY WASTE BELOW GROUND/FLOOR
	BALANCE VALVE
	GAS SHUT-OFF COCK
	CHECK VALVE
	PRESSURE & TEMPERATURE RELIEF VALVE
	STRAINER WITH BLOW DOWN VALVE
	SHUT OFF VALVE
	IN-LINE PUMP
	UNION
	FLANGE CONNECTION
	FLOOR DRAIN OR EQMT FLOOR DRAIN
	PIPE DROP/PIPE RISE
	BOTTOM OUTLET TEE
	TOP OUTLET TEE
	HOSE BIBB
	WALL HYDRANT
	CLEAN OUT
	WALL CLEAN OUT
	FINISHED FLOOR CLEANOUT
	SANITARY VENT THROUGH ROOF
	CONCENTRIC REDUCER
	EQUIPMENT TYPE AND DESIGNATION
	PLUMBING FIXTURE DESIGNATION
	EXISTING TO REMAIN
	CONNECT TO EXISTING

ADD FIRE STOPPING DETAILS



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OLATHE, KS 66061

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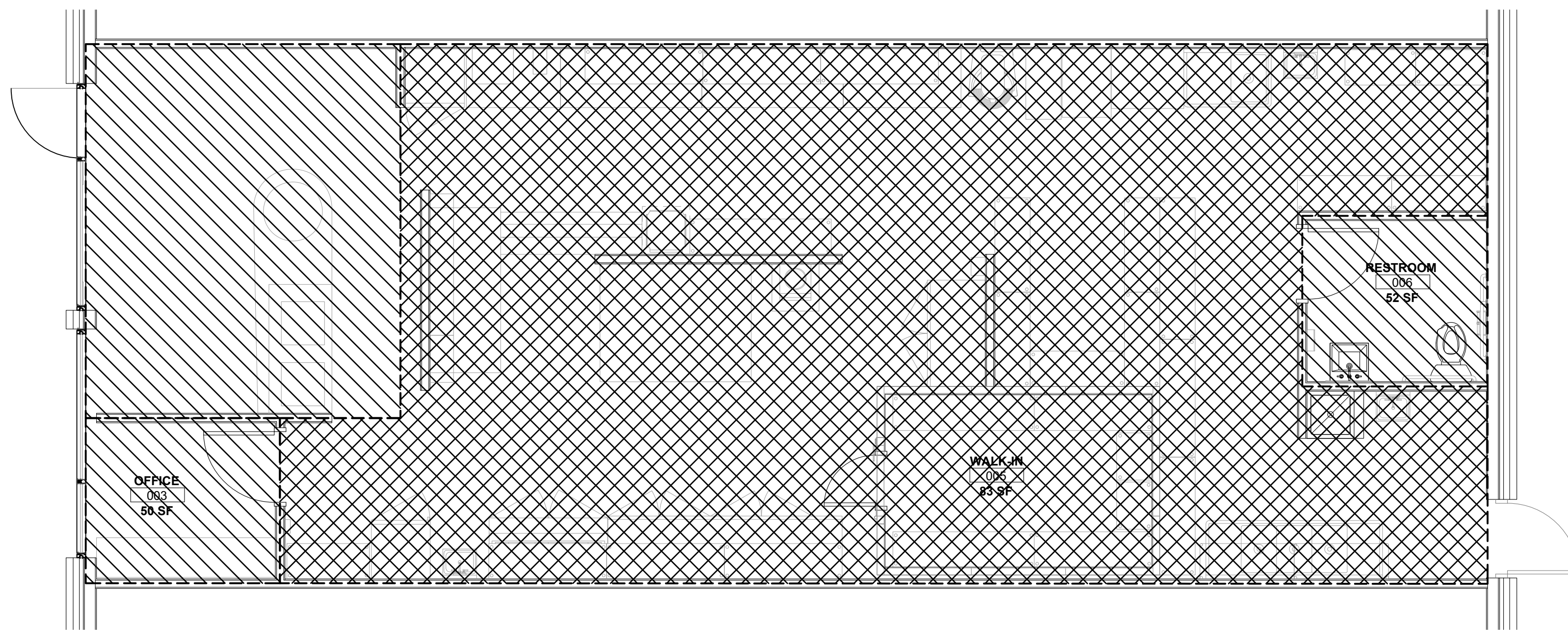
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PLUMBING
SCHEDULES,
GENERAL NOTES,
& SYMBOLS

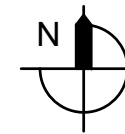
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P211



FLOOR PLAN-MECHANICAL NEW WORK

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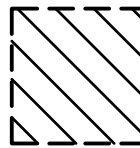
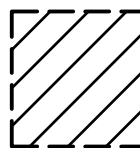
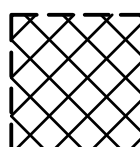


FIRE PROTECTION DESIGN CRITERIA

- A. ENTIRE BUILDING AS SHOWN ON DRAWINGS IS CURRENTLY PROVIDED WITH A WET TYPE SPRINKLER SYSTEM. MODIFY SYSTEM AS NECESSARY FOR NEW WALL LAYOUTS, CEILING LAYOUTS, AND IN COMPLIANCE WITH THE RULES AND REGULATIONS OF APPLICABLE FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES, THE OWNER'S INSURANCE COMPANY AND NFPA 13.
- B. FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION, INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS OF WORK REQUIRED FOR STRICT COMPLIANCE.
- C. NEW FIRE PROTECTION PIPING AND FITTINGS SHALL MATCH EXISTING, OR PROVIDE SCHEDULE 40 FOR 2" AND SMALLER WITH THREADED ENDS AND SCHEDULE 10 FOR 1-1/2" AND LARGER WITH ROLL-GROOVED ENDS AND GROOVED JOINTS. ALL PIPING IN AREAS WITH CEILINGS SHALL BE RUN CONCEALED WITH NO EXCEPTIONS UNLESS COORDINATED WITH ARCHITECT AND ENGINEER. PIPE SIZES SHOWN ON PLANS FOR INFORMATION ONLY. VERIFY BY HYDRAULIC CALCULATIONS.
- D. NEW FIRE SPRINKLERS SHALL MATCH EXISTING IN TYPE, STYLE AND APPEARANCE. ANY REMOVED/RELOCATED FIRE SPRINKLERS MUST BE REPLACED WITH NEW PER NFPA 13. CONTRACTOR RESPONSIBLE FOR FIELD VERIFICATION OF ALL INFORMATION.
- E. ALL SPRINKLERS IN LAY-IN CEILINGS ARE TO BE CENTERED ±1/2" IN 2x2' PORTION OF TILE. ALL SPRINKLERS IN GYP-BOARD CEILINGS ARE TO BE CENTERED ±1/2" WITH LIGHT FIXTURES AND ALIGNED WITH ALL OTHER DEVICES IN CEILING IN BOTH DIRECTIONS. COORDINATE WITH ARCHITECT.
- F. FIRE PROTECTION CONTRACTOR SHALL PREPARE DETAILED AND COORDINATED SHOP DRAWINGS SO AS TO AVOID CONFLICTS IN THE FIELD. CONTRACTOR SHALL COORDINATE WITH REFLECTED CEILING PLAN, DUCTWORK LAYOUT AND LIGHTING LAYOUT. ALL COORDINATION SHALL TAKE PLACE PRIOR TO INSTALLATION.
- G. CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN PERMITS AND CERTIFICATES OF INSPECTIONS RELATIVE TO THIS WORK.
- H. CONTRACTOR SHALL OBTAIN CURRENT FIRE HYDRANT FLOW TEST DATA AND USE FOR SYSTEM HYDRAULIC CALCULATIONS. USE DATA TO DESIGN SYSTEMS ACCORDINGLY BASED ON AVERAGE NUMBERS PLUS 10% SAFETY.
- I. PREPARE AND SUBMIT SHOP DRAWINGS, PRODUCT DATA AND HYDRAULIC CALCULATIONS AS REQUIRED. ALL INFORMATION SHOWN ON FIRE PROTECTION DRAWINGS SHALL BE INCLUDED ON THE SHOP DRAWINGS.
- J. CONTRACTOR TO BE RESPONSIBLE FOR MAKING FINAL COORDINATION WITH STRUCTURE AND ALL OTHER TRADES PRIOR TO SUBMITTING SHOP DRAWINGS. ALL ELEVATIONS OF PIPE MUST BE SHOWN ON SHOP DRAWINGS.
- K. ALL SPRINKLERS AND PIPING SHALL BE PROTECTED FROM FREEZING. USE DRY SIDEWALL SPRINKLERS OR DRY PIPE SYSTEM FOR VESTIBULES, ALCOVES, TRASH ENCLOSURES, CANOPIES, AND PORCHES.
- L. NFPA 13 - 2016 ED - 7.1.5 A SINGLE AIR VENT WITH A CONNECTION SHALL BE PROVIDED ON EACH WET PIPE SYSTEM. THE AIR VENT SHALL BE LOCATED NEAR A HIGH POINT IN THE SYSTEM TO ALLOW AIR TO BE REMOVED FROM THAT PORTION OF THE SYSTEM BY ONE OF THE FOLLOWING METHODS: MANUAL VALVE, MINIMUM 1/2 (15MM) SIZE, OR AUTOMATIC AIR VENT.
- M. PROVIDE AUXILIARY DRAINS AS REQUIRED BY NFPA 13. COORDINATE LOCATIONS WITH OWNER. AUXILIARY DRAINS MUST BE SHOWN ON SHOP DRAWINGS.
- N. SPRINKLER SYSTEM SHALL BE TESTED AND DRAINED PER NFPA STANDARDS AND LOCAL AND STATE AUTHORITY HAVING JURISDICTION COMPLETED CONTRACTOR MATERIAL TEST CERTIFICATES SHALL BE FORWARDED TO OWNER.
- O. FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH FIRE ALARM PANEL AND SUPERVISION OF NEW SPRINKLER TAMPER AND FLOW SWITCHES.
- P. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- Q. SPRINKLER HEAD PLACEMENT SHALL BE OUT OF THE SWING AREA OF DOORS TO AVOID CONFLICT WITH TALL DOORS.

FIRE PROTECTION LEGEND

RECONFIGURE EXISTING BASE BUILDING FIRE SPRINKLER LAYOUT WITHIN THIS AREA IN ORDER TO PROVIDE PROPER COVERAGE PER NFPA 13 AND LOCAL AUTHORITIES. ALL REMOVED / RELOCATED FIRE SPRINKLERS MUST BE REPLACED WITH NEW PER NFPA 13. NEW SPRINKLERS TO MATCH EXISTING. REFER TO REFLECTED CEILING PLANS FOR COORDINATION WITH LIGHTS, DIFFUSERS, EXIT SIGNS, ETC.

-  LIGHT HAZARD - PROVIDE PROPER COVERAGE PER NFPA 13 (0.1 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1500 SQUARE FEET) PLUS 100 GPM HOSE STREAM ALLOWANCE.
-  ORDINARY HAZARD GROUP 1 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.15 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1500 SQUARE FEET) PLUS 250 GPM HOSE STREAM ALLOWANCE.
-  ORDINARY HAZARD GROUP 2 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.2 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1500 SQUARE FEET) PLUS 250 GPM HOSE STREAM ALLOWANCE.



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OLATHE, KS 66061

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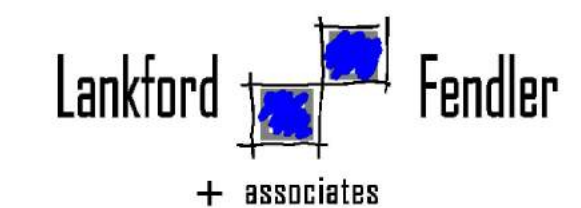
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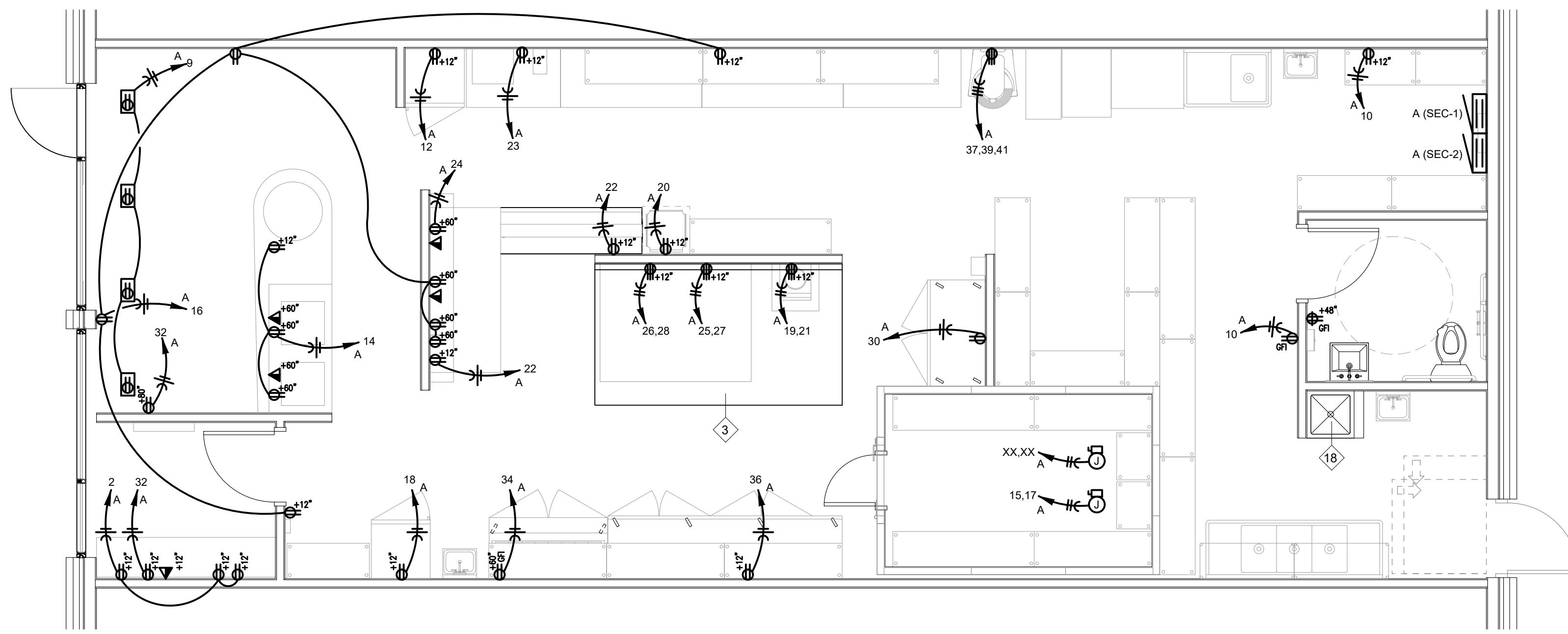
**FLOOR PLAN-
FIRE
PROTECTION**

sheet number

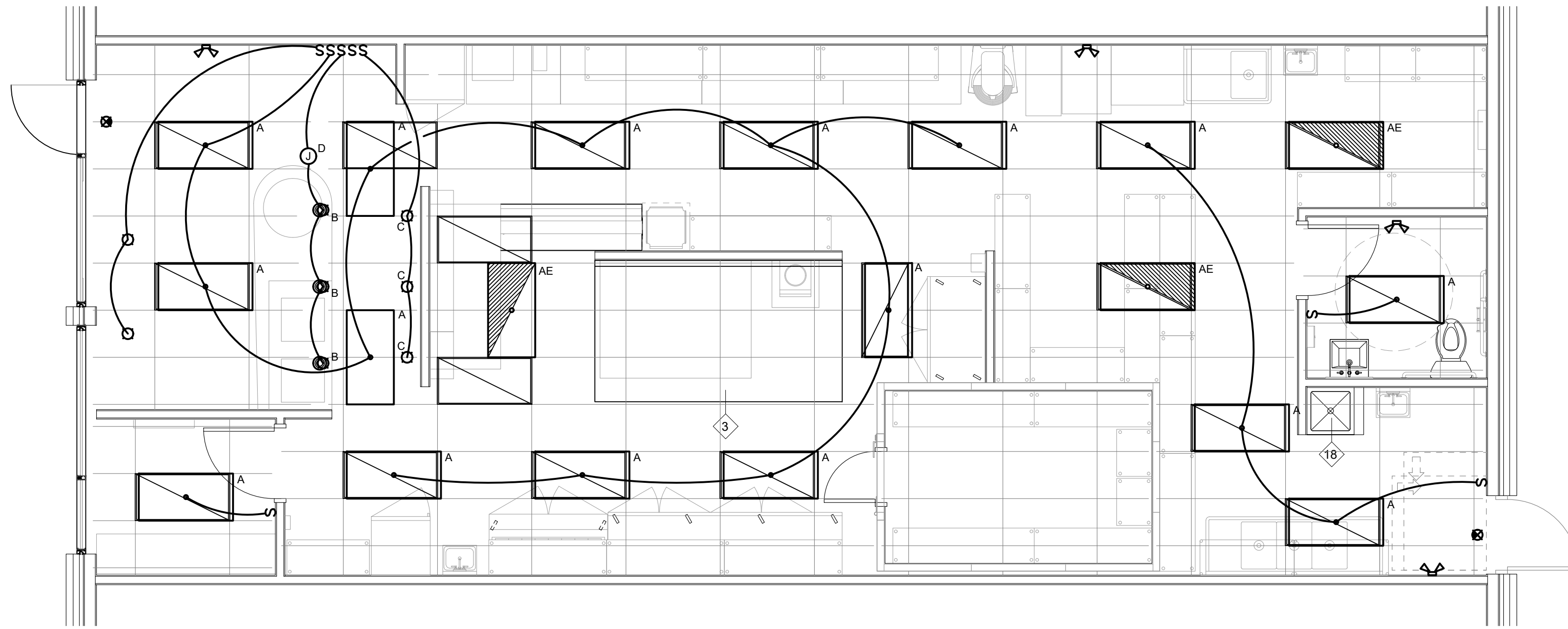
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1720 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501
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FLOOR PLAN-POWER
SCALE: 1/4"=1'-0"



FLOOR PLAN-LIGHTING
SCALE: 1/4"=1'-0"

FLOOR PLAN NOTES

1. TEXT



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OLATHE, KS 66061
HIVE DESIGN COLLABORATIVE, INC.
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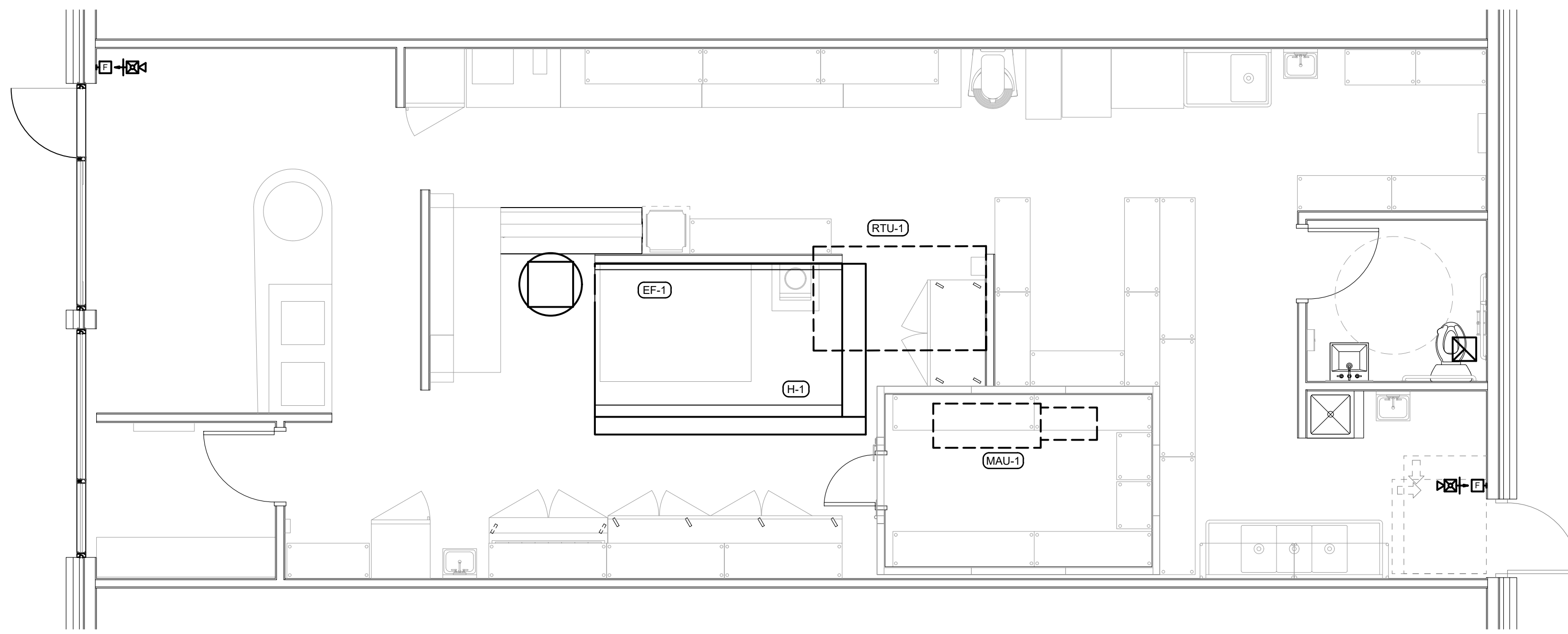
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**FLOOR PLAN-
POWER &
LIGHTING**

sheet number

E111



FLOOR PLAN-SYSTEMS 
 SCALE: 1/4"=1'-0"

FLOOR PLAN NOTES

1. TEXT



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 OLATHE, KS 66061
HIVE DESIGN COLLABORATIVE, INC.
 1617 WALNUT STREET, KANSAS CITY, MO 64108
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FLOOR PLAN-SYSTEMS

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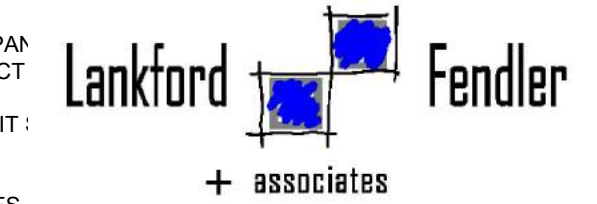
E112

ELECTRICAL SYMBOLS

	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE MINIMUM NO.12 UNLESS NOTED OTHERWISE.
	PHASE CONDUCTORS
	NEUTRAL CONDUCTOR
	SWITCH-LEG AND OR TRAVELER
	GROUND CONDUCTOR
	LP1-10 PANEL - BREAKER NUMBER (IDENTIFICATION)
	INDICATES XX# 2-POLE C.B., XX/X # 3-POLE C.B.
	HOMERUN INDICATED LIKE THIS INDICATED THREE SEPARATE CIRCUITS
	CONDUIT CONCEALED IN CEILING OR WALL WITH THREE CONDUCTORS: 1-PHASE, 1-NEUTRAL, 1-GROUND WIRE, MINIMUM NO.12 WIRE UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
	CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB.
	GROUNDING CONDUCTOR NO.12 WIRE EXCEPT AS NOTED
	EXIT SIGN - SINGLE FACED - ARROWS AS SHOWN ON DRAWING. SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT.
	EXIT SIGN - DOUBLE FACED - ARROWS AS SHOWN ON DRAWING. SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT.
	COMBINATION EXIT SIGN/EMERGENCY LIGHTING UNIT - CEILING OR WALL MOUNTED. SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT.
	CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT WITH INTEGRAL BATTERY AND UNIT MOUNTED HEADS.
	2x4 / 2x2 LIGHT FIXTURE, LETTER DENOTES FIXTURE TYPE, REFER TO SCHEDULE
	2x4 / 2x2 LIGHT FIXTURE ON EMERGENCY POWER OR WITH INTEGRAL EMERGENCY BALLAST, LETTER DENOTES FIXTURES TYPE, REFER TO FIXTURE SCHEDULE FOR TYPE
	STRIP FIXTURE, LETTER DENOTES FIXTURE TYPE, REFER TO SCHEDULE
	WALL WASH OR RECESSED CEILING LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE, SIZE AND TYPE AS NOTED
	PENDANT MOUNTED LIGHT FIXTURE, SIZE AND TYPE AS NOTED
	TRACK LIGHTING, SIZE AND TYPE AS NOTED
	INDIRECT/DIRECT LIGHT FIXTURE, SIZE AND TYPE AS NOTED
	MOTOR
	208Y/120V OR 120/240V PANELBOARD (SURFACE) TOP MOUNTED 6'-0" AFF
	208Y/120V OR 120/240V PANELBOARD (FLUSH) TOP MOUNTED 6'-0" AFF
	480/277V PANELBOARD (SURFACE) TOP MOUNTED 6'-0" AFF
	480/277V PANELBOARD (FLUSH), TOP MOUNTED 6'-0" AFF
	DISTRIBUTION PANEL (SURFACE OR FLOOR MOUNTED)
	SURFACE MOUNTED EQUIPMENT, TYPE AS INDICATED ON DRAWINGS
	FLUSH MOUNTED EQUIPMENT, TYPE AS INDICATED ON DRAWINGS
	CONDUIT UP
	CONDUIT DOWN
	CONDUIT STUBBED THRU WALL WITH BUSHINGS ON BOTH ENDS. SIZE AS NOTED ON PLANS.
	EMPTY CONDUIT STUB-UP INSIDE WALL TO ABOVE ACCESSIBLE CEILING WITH BUSHING ON THE END. SIZE AS NOTED ON DRAWINGS.
	GROUND
	POWER CONNECTION POINT
	DISCONNECT SWITCH, SIZE AND TYPE AS NOTED TOP MOUNTED 5'-0" AFF
	COMBINATION MAGNETIC MOTOR STARTER, SIZE AND TYPE AS NOTED. TOP MOUNTED 5'-0" AFF
	SINGLE POLE SWITCH, TOP OF DEVICE BOX AT +4'-0" AFF
	THREE-WAY SWITCH, TOP OF DEVICE BOX AT +4'-0" AFF
	FOUR-WAY SWITCH, TOP OF DEVICE BOX AT +4'-0" AFF
	DIMMER SWITCH, TOP OF DEVICE BOX AT +4'-0" AFF
	WALL MOUNTED MOTION SENSOR, TOP OF DEVICE BOX AT +4'-0" AFF, TYPE AS INDICATED
	LOW VOLTAGE SWITCH +4'-0" AFF TO CENTERLINE OF DEVICE BOX
	SWITCH DESIGNATION
	RELAY, SIZE AND TYPE AS NOTED
	PHOTOCELL, SIZE AND TYPE AS NOTED
	PUSH BUTTON +4'-0" AFF.
	SINGLE RECEPTACLE. +1'-6" AFF OR AS NOTED
	DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED
	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP
	ISOLATED GROUND DUPLEX RECEPTACLE
	GFI DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE. HEIGHT AS NOTED.
	DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION. +1'-6" AFF OR AS NOTED
	DOUBLE DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED
	DOUBLE DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.
	ISOLATED GROUND DOUBLE DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE MOUNTED IN CEILING TILE OR CEILING.
	FIRE RATED ROUND POKE-THRU WITH TYPE INDICATED. SEE SPECS.
	SQUARE RECESSED FLUSH FLOOR BOX WITH TYPE INDICATED. SEE SPECS.
	HEAVY DUTY RECEPTACLE. VOLTAGE, PHASE AND AMPS AS NOTED. +1'-6" AFF OR AS NOTED.
	LOW VOLTAGE POWER PACK FOR CEILING MOUNTED MOTION SENSOR, TYPE AS INDICATED
	CEILING MOUNTED SPEAKER TYPE AS INDICATED
	CEILING MOUNTED MOTION DETECTOR TYPE AS INDICATED
	WALL MOUNTED OR CEILING MOUNTED JUNCTION BOX.
	WALL MOUNTED JUNCTION BOX WITH BLANK COVERPLATE.
	RECESSED SHELF CONTAINED TV BOX, TYPE AS INDICATED
	VOICE OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. INSTALLED ABOVE COUNTERTOP. (W DENOTES WALL MOUNTED +48" AFF)
	LOW VOLTAGE OUTLET, DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING. INSTALL 1" CONDUIT STUBBED UP OUT OF TOP OF BOX TO ABOVE AN ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.
	LOW VOLTAGE OUTLET, DOUBLE GANG BOX WITH DOUBLE GANG PLASTER RING. INSTALL (2) 1-1/4" CONDUIT STUBBED UP OUT OF TOP OF BOX TO ABOVE AN ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.
	LOW VOLTAGE OUTLET INSTALLED ABOVE COUNTER. DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING. INSTALL 1" CONDUIT STUBBED UP OUT OF TOP OF BOX TO ABOVE AN ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.
	CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR
	DUCT MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR
	CEILING MOUNTED HEAT DETECTOR

GENERAL NOTES (TYPICAL ALL SHEETS)

- A. REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES, SPEAKER AND F.A. DEVICES IN THE CEILING SYSTEM.
- B. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR COORDINATION OF LOCATION OF ALL WIRING DEVICES BEFORE ROUGH-IN OF J-BOXES.
- C. REFER TO ARCHITECTURAL PLANS FOR DETAIL OF ALL CONDUIT THRU ROOF PENETRATIONS.
- D. ALL JUNCTION BOXES FOR RECEPTACLES SHALL BE EVENLY SPACED ALONG WALL.
- E. CONTRACTOR SHALL CONNECT EXISTING 120V LIGHTS AND RECEPTACLES TO SPARE 20A/1P CIRCUIT BREAKER(S) IN NEW PANELBOARD. LABEL CIRCUIT BREAKER WITH CORRECT IDENTIFICATION.
- F. INSTALL BLANK COVERPLATE ON ALL OPEN OR ABANDONED DEVICE BOXES. VERIFY COLOR WITH ARCHITECT.
- G. WIRING TO BE REMOVED BACK TO THE NEAREST DEVICE TO REMAIN. WIRING SHALL NOT BE TAKEN PAST THE FIRST JUNCTION BOX BEFORE THE PANELBOARD.
- H. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY THE CONTRACTOR.
- I. NEW CIRCUITRY SHOWN FOR NEW/EXISTING POWER AND LIGHTING IS DIAGRAMMATIC AND IS INTENDED TO SHOW WHICH DEVICES ARE TO BE GROUPED ON INDIVIDUAL CIRCUITS. EXISTING WIRING THAT CONFORMS TO THE INTENT OF THE DRAWINGS MAY BE USED.
- J. PROVIDE UPDATED, TYPEWRITTEN PANELBOARD DIRECTORY FOR EACH PANELBOARD WHICH CIRCUITS HAVE BEEN ADDED TO OR MODIFIED.
- K. CONTRACTOR TO REFERENCE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100AMPS.
- L. EXISTING RECEPTACLES AND SWITCHES TO REMAIN EXCEPT THOSE THAT ARE CHIPPED, BROKEN OR DAMAGED IN ANY OTHER WAY SHALL BE REPLACED TO MATCH EXISTING.
- M. CONTRACTOR SHALL PROVIDE ANY REQUIRED PATCH PANELS, RACK ACCESSORIES, ETC... TO MAKE ALL DATA/VOICE CLOSET TERMINATIONS INDICATED. COORDINATE WITH OWNERS TELECOMMUNICATIONS REPRESENTATIVE.
- N. SUPPORT ALL LIGHT FIXTURES WITH A MINIMUM OF (4) 12 GA. HANGER WIRES TO STRUCTURE ABOVE.
- O. CONNECT EXIT AND EMERGENCY LIGHTS TO HOT LEG, NOT SWITCH LEG.
- P. REPAIR AND/OR REPLACE ANY DAMAGED CEILING TILE OR GRID DUE TO INSTALLATION OF CONDUITS, ETC. ABOVE EXISTING CEILING. WALK BUILDING WITH ARCHITECT PRIOR TO COMMENCING WORK TO NOTE ANY EXISTING DAMAGED CEILING TILE OR GRID.
- Q. LOCATE ALL IN SLAB REBAR PRIOR TO CORE DRILLING AND SHALL ADJUST CORE LOCATIONS AS TO AVOID REBAR. PROVIDE MINIMUM SPACING BETWEEN CORE DRILL LOCATIONS AS REQUIRED BY POKE THROUGH DEVICE UL LISTING. ALL CORE DRILLING AND WORK DONE BELOW FLOOR SHALL BE DONE AFTER HOURS.
- R. COORDINATE INSTALLATION REQUIREMENTS AND SCHEDULING OF ALL SYSTEM FURNITURE WITH FURNITURE INSTALLER.
- S. CLEAN AND CHECK ALL EXISTING LIGHT FIXTURES FOR PROPER OPERATION AND REPLACE ANY BROKEN SOCKETS, LENS, LOUVERS, OR DEFECTIVE BALLAST. RELAMP ALL EXISTING FIXTURES WITH NEW LAMPS.
- T. DISCONNECTS FOR MECHANICAL EQUIPMENT ARE PROVIDED BY OTHERS. UNLESS NOTED OTHERWISE.
- U. THE FOLLOWING FACTORS SHALL BE USED TO DETERMINE PANELBOARD CAPACITY: 100% LIGHTING, 100% MOTOR LOADS, 100% OF FIRST 10,000 & 50% THERE AFTER FOR ALL OTHER LOADS.
- V. 20% SPARE BREAKER SPACE SHALL BE PROVIDED IN EACH PANELBOARD.
- W. CONTRACTOR SHALL INCLUDE IN BID ALL COSTS ASSOCIATED WITH THE INTERCOM SYSTEM WORK. CONTRACTOR SHALL GET PRICE FROM ALL SYSTEMS TO REPAIR EXISTING SCHOOL SYSTEM INTERCOM AND TO INSTALL AND WIRE NEW SPEAKERS AND CALL STATIONS. REPAIR WORK TO INCLUDE REPLACEMENT OR REPAIR OF SYSTEMS ELECTRONICS, CORRECTING OR REPLACING FAULTY WIRING AND TROUBLE SHOOTING ENTIRE SYSTEM. ALL SYSTEMS SHALL FIELD VERIFY PROBLEMS WITH EXISTING SYSTEM AND QUESTION SCHOOL AUTHORITIES ABOUT SYSTEM PROBLEM. THE SCOPE OF REPAIR WORK IS THE ENTIRE SCHOOL LESS THE NEW WORK SHOWN ON THE PLANS. ANY MODIFICATIONS TO THE SYSTEM TO ACCOMMODATE THE NEW WORK SHALL BE INCLUDED IN BID.
- X. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID ALL COSTS ASSOCIATED WITH FIRE ALARM MODIFICATIONS. THIS WORK SHALL INCLUDE POWER EXTENDER PANEL, SMOKE DETECTORS, HORN/STROBES, PULL STATIONS, REMOTE INDICATING LIGHTS AND ANY OTHER FIRE ALARM WORK SHOWN ON PLANS. ALL WIRING, PLENUM RATED CABLING, BETWEEN DEVICES SHALL BE INCLUDED IN WORK TO PROVIDE AN OPERATIONAL EXTENSION OF THE EXISTING FIRE ALARM SYSTEM.
- Y. ALIGN ALL WIRING DEVICES IN VERTICAL ALIGNMENT. IF ANY DEVICE(S) ARE FOUND NOT TO BE INSTALLED PER DETAIL CONTRACTOR SHALL RELOCATE AND PAY ALL ASSOCIATED COSTS ASSOCIATED WITH THE RELOCATION(S).
- Z. LIGHTING INDICATED ABOVE EXIT DISCHARGE DOOR IS FOR MEANS OF EGRESS ILLUMINATION PER IBC 1006.1.
- AA. MEANS OF EGRESS TO BE ILLUMINATED AT NOT LESS THAN 1 FOOTCANDLE AT THE FLOOR. CONTRACTOR SHALL PROVIDE AND INSTALL IF NECESSARY ADDITIONAL EMERGENCY FIXTURES IF NECESSARY TO MEET THE REQUIRED READINGS.
- AB. CONTRACTOR SHALL INSTALL ALL DEVICES PER U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT FAIR HOUSING ACT AND SHALL COMPLY WITH APPLICABLE CODES.
- AC. PROVIDE FIRE STOP ON ALL PIPING AT FLOOR PENETRATIONS PER LOCAL CODE REQUIREMENTS. METHOD OF FIRE STOP SHALL MEET WALL RATING. RE: ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED WALLS. PROVIDE FIRE CAP HOUSING FOR ALL FIXTURES THAT PENETRATE FIRE RATED CEILINGS.
- AD. CONDUIT SHALL BE USED FOR CONDUCTORS WHERE REQUIRED BY N.E.C.
- AE. OUTLETS INSTALLED IN FIRE RATED ASSEMBLES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24".
- AF. CONTRACTOR SHALL CALCULATE VOLTAGE DROP AND SIZE WIRE ACCORDINGLY. PER N.E.C.
- AG. PROVIDE 3'-0" CLEARANCE IN FRONT OF DISCONNECTS TO CONDENSING UNITS.
- AH. CONTRACTOR SHALL PROVIDE FIRE RATED ENCLOSURES AROUND ALL ROUGH-IN BOXES, PANELS ETC. THAT ARE LOCATED IN FIRE RATED WALLS AND SHALL FIRE CALLK ALL OPENING IN RATED ASSEMBLES PER MANUFACTURERS RECOMMENDATIONS PER FIRE RATED ASSEMBLES.
- AI. PROVIDE HOUSE KEEPING PAD FOR ALL FLOOR MOUNTED EQUIPMENT.
- AJ. INSTALL FIRE ALARM DEVICES THAT COMPLY WITH APPLICABLE CODES. INCLUDING BUT NOT LIMITED TO THE FAIR HOUSING ACT, NFPA, UL, ADA, IBC OR ANY OTHER AUTHORITIES HAVING JURISDICTION.
- AK. WHERE MORE THAN ONE SWITCH IS INDICATED ON DRAWINGS SIDE BY SIDE, CONTRACTOR SHALL INSTALL SWITCHES UNDER ONE COMMON FACE PLATE.
- AL. CONTRACTOR MAY WIRE SO FIRST GFI OUTLET PROTECTS ALL DOWN STREAM OUTLETS.
- AM. FIRE ALARM CONTRACTOR IS RESPONSIBLE OF TESTING AND VERIFYING THAT THE AUDIBILITY OF THE FIRE ALARM SYSTEM MEETS A MINIMUM OF 15 DBA ABOVE AMBIENT NOISE LEVELS. AFTER INSTALLATION AND BEFORE CERTIFICATE OF OCCUPANCY, ADD HORNS WHERE REQUIRED TO MAINTAIN MINIMUM LEVELS.
- AN. CONTRACTOR SHALL REFER TO UNIT PAN CIRCUITRY INFORMATION AND CONNECT
- AO. ALL HOMERUNS INDICATED WITHIN UNIT: INDICATED FOR THAT UNIT.
- AP. UPON REQUEST FOR ELECTRONIC FILES, RETURN ELECTRONIC MEDIA RELEASE FC FOR FEES STIPULATED ON ELECTRONIC I COMPLETED RELEASE FORM AND PAYME
1730 Walnut Street Kansas City, Missouri 64108
 1915 Frederick Avenue, St. Joseph, Missouri 64501
 Phone: 816.221.1411 | Fax: 816.221.1429
- AQ. ELECTRICAL CONTRACTOR SHALL SCAN FLOOR UTILIZING SONAR/PENETRATING RADAR PRIOR TO ANY CORE DRILLING OR SAW CUTTING OPERATIONS. VERIFY PLACEMENT WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO DRILLING.



SARPINO'S

1235 W. HAROLD ST.
OLATHE, KS 66061
HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

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ELECTRICAL
SCHEDULES,
GENERAL NOTES,
& SYMBOLS

sheet number

E211