



GREAT LAKES BAY
CONSTRUCTION
DESIGN-BUILD | GENERAL CONTRACTOR

2525 N. EASTMAN RD. MIDLAND, MI 48642
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RESPONSIBILITY MATRIX

	FURNISH BY		INSTALL BY		REMARKS
	EXISTING	FRANC. OWNER	FRANC. OWNER	RESP. PARTY	
	LANDLORD	LANDLORD	LANDLORD	RESP. PARTY	
STOREFRONT		●	●		INCL. DOOR RELOCATION PER PLAN
DEMISING WALLS		●	●		INSUL. & FINISHED DRYWALL READY FOR PAINT
ROOF PENETRATION/ FLASHING		●	●		LL ROOFER TO BE USED
RTU/ STRUCTURAL REINFORCEMENT		●	●		INCL. (1) 7.5 TON UNIT
DUCTWORK DISTRIBUTION BALANCE		●	●		INCL. DUCTWORK
GAS PIPING		●	●		NEW PIPING & SERVICE UPGRADE IF NECESSARY
ELECTRICAL PANEL - MAIN SERVICE		●	●		INCL. 3 PH. OR GREATER. STD BREAKERS, 84 CIRC.
KITCHEN HANDSINKS/ FAUCETS		●	●		
WATER HEATERS		●	●		INCL. (2) TANKLESS WATER HEATERS
GREASE INTERCEPTOR		●	●		INCL. INTERIOR BELOW GROUND
1-COMPARTMENT SINK/ FAUCETS		●	●		
3-COMPARTMENT SINK/ FAUCETS		●	●		
KITCHEN EQUIPMENT		●	●		INCL. ALL EQUIPMENT ON K-1 U.N.O.
ICE MACHINE		●	●		
ICE MACHINE REMOTE CONDENSER		●	●		G.C. TO PROVIDE OPTIONAL REFRIG. PRICING
WALK-IN COOLER/ FREEZER		●	●		
WALK-IN REMOTE CONDENSERS		●	●		G.C. TO PROVIDE OPTIONAL REFRIG. PRICING
FURNITURE		●	●		INCL. ALL FURNITURE ON K-1 U.N.O.
WALL DECOR (APPROVAL REQUIRED)		●	●		INCL. ALL DECOR & WALL SIGNAGE U.N.O.
ADA SIGNAGE		●	●		
RESTROOM ACCESSORIES		●	●		INCL. GRAB BARS & MIRRORS
RESTROOM PLUMBING FIXTURES		●	●		INCL. TOILET & WALL-MOUNT LAV & FAUCET
RESTROOM DISPENSERS		●	●		INCL. T.P., P.T., HAND SOAP & HAND SANITIZER
TV'S & BRACKETS		●	●		
TEL-COMM SYSTEMS		●	●		● TELEPHONE, CABLE, INTERNET WIRING BY OTHERS
P.O.S. SYSTEM		●	●		● WIRING BY OTHERS
EXTERIOR SIGNAGE		●	●		● J-BOX BY G.C. (SEE ELECTRICAL SHEET)
CHEMICAL & CLEANING SYSTEMS		●	●		
LIGHTING		●	●		
DOOR SYSTEM/ HARDWARE		●	●		INCL. NEW DOOR/ OPENING PER PLAN
HAND DRYERS		●	●		INCL. (2) HAND DRYERS

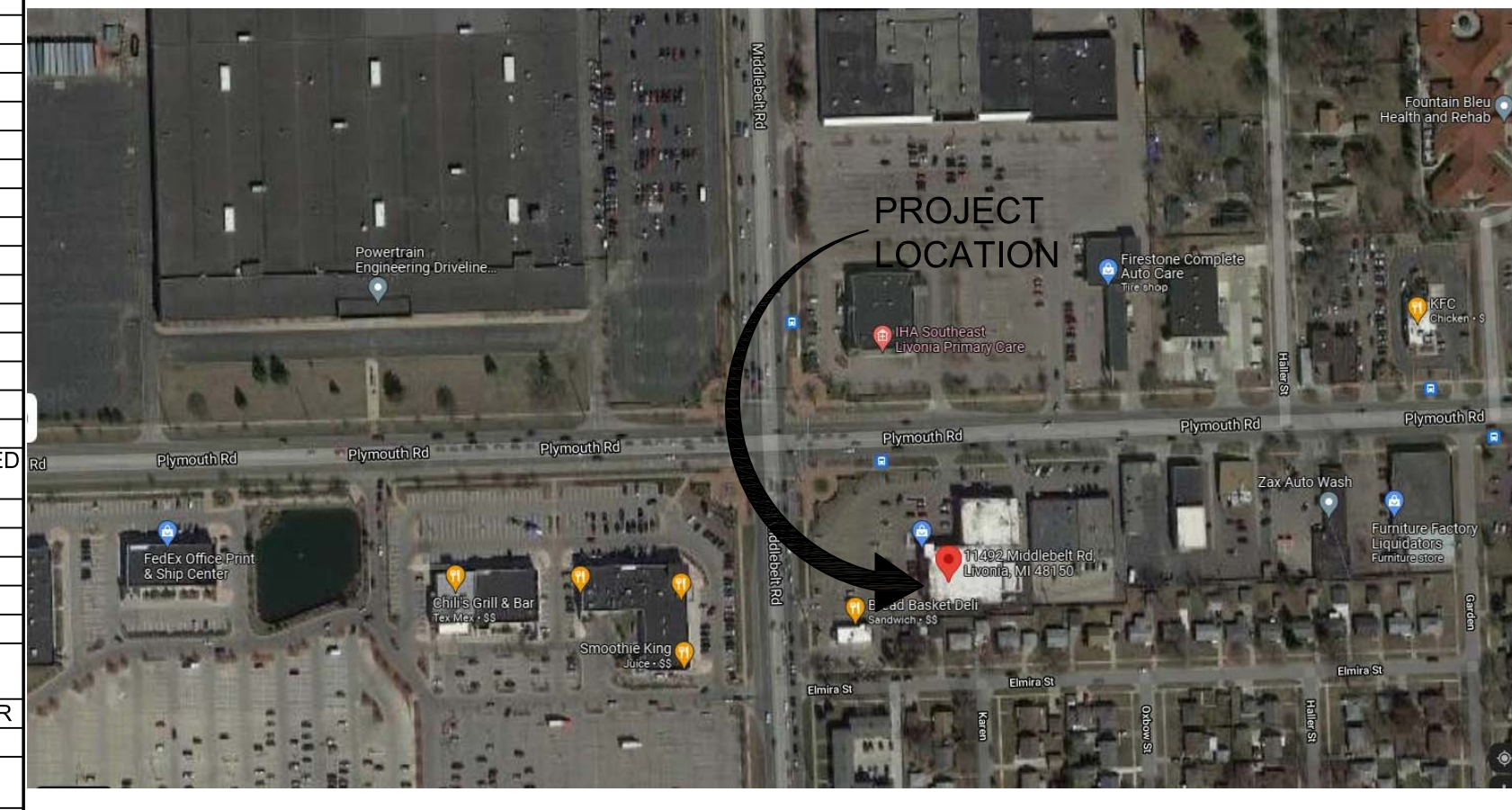
EQUIPMENT DELIVERY NOTES

The General Contractor is to coordinate the delivery of the equipment with Hockenbergs. It is the responsibility of the Franchisee or their agent to accept delivery and to inspect for damage and shortages. In the absence of the Franchisee or their agent the Contractor will accept delivery. Damage and shortages must be noted on the Receiving Document or Bill of Lading supplied by the freight carrier. The party receiving delivery is liable for damaged and missing items, unless noted on the Receiving Document or Bill of Lading. Contact Hockenbergs with any issues about damages, shortages, or whether a shipment should be refused. If in doubt, sign for the delivery as damaged, take photos of the damaged item in its original packaging, and retain all original packing materials. Once a delivery is received, inspect deliverables for concealed damage, and report damages to Hockenbergs immediately so a concealed damage claim can be made. All concealed damage must be reported back to Hockenbergs within 24 hours of receipt of equipment or no concealed freight claim will have time to process. All original damaged packing materials must be kept for inspection.

PROJECT INFORMATION

APPLICABLE CODES:	
MICHIGAN BUILDING CODE - 2015	
MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS - 2015	
ACCESSIBILITY: ICC/ANSI A117.1-2009 & MICHIGAN BARRIER FREE DESIGN LAW	
INTERNATIONAL FIRE CODE - 2015	
MICHIGAN MECHANICAL CODE - 2015	
MICHIGAN PLUMBING CODE - 2015	
STATE OF MICHIGAN ELECTRICAL CODE (NEC-2011) W/ PART 8 AMENDMENTS	
SITE & BUILDING INFORMATION	
1. EXISTING LEASE SPACE: 1,693 SQUARE FEET	
2. USEGROUP: GROUP B - RESTAURANT W/ LESS THAN 50 OCCUPANTS (MBC 303.1.1)	
3. EXISTING TYPE OF CONSTRUCTION: 2B	
4. OCCUPAND LOAD (MBC 2015, TABLE 1004.1.2)	
	SEATING AREA: 28
	EMPLOYEES: 4 (MAX)
	TOTAL OCCUPANTS: 32 (MAX - INCLUDING STANDING)
	SIGNAGE TO BE POSTED - TOTAL OCCUPANTS NOT TO EXCEED 32
5. NUMBER OF EXITS & CONTINUITY (1006.2.1):	
	1 EXIT REQUIRED (60 OCCUPANTS / 2 EXITS PROVIDED)
6. EXIT TRAVEL DISTANCE FOR STORIES W/ (1) EXIST (1006.3.1):	
	(MAXIMUM EXIT DISTANCE: 75 FEET)
7. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED AS REQUIRED (MBC 906.1)	
8. ALL INTERIOR FINISHES SHALL BE IN ACCORDANCE W/ 2015 MICHIGAN BUILDING CODE (SECTIONS 801-808)	
9. FIRE-RESISTANCE RATING REQUIREMENT FOR BUILDING ELEMENTS FOR TYPE 5B = 2HR	
	RATING ON ALL ELEMENTS (SECTION MBC 601)
10. FIRE SUPPRESSION SYSTEM	NO

VICINITY MAP/ SITE PLAN



GENERAL NOTES

- ALL ROUGH-INS AND CONNECTIONS SHOWN ON THESE PLANS ARE FOR FOOD SERVICE FIXTURES AND EQUIPMENT PROVIDED BY THE EQUIPMENT VENDOR OR BY OUTSIDE PARTIES LISTED AS 'VENDOR' OR 'BY OTHERS'. ALL INFORMATION PROVIDED ON THESE PLANS ARE TO BE VERIFIED BY THE GENERAL CONTRACTOR THRU THE SPECIFICATIONS MANUAL PROVIDED BY THE EQUIPMENT VENDOR OR BY CONSULTING THE APPROPRIATE OUTSIDE PARTIES.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ACTUAL ROUGH-IN LOCATIONS AS NEEDED BY FIELD CONDITIONS FOR EQUIPMENT UTILITY CONNECTION(S) PER MANUFACTURER'S CURRENT SPECIFICATION SHEETS.
 - SERVICE ROUGH-INS AND EQUIPMENT CONNECTIONS MUST BE MADE BY APPROPRIATE TRADES.
 - ALL BUILDING PENETRATIONS REQUIRED FOR FOOD SERVICE EQUIPMENT INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND SEALED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
 - ALL WALL SUPPORT (BLOCKING) FOR WALL HUNG EQUIPMENT SHALL BE PROVIDED BY GENERAL CONTRACTOR PER PLAN.
 - GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER WORKING CONDITION AND MEETING CURRENT LOCAL CODE REQUIREMENTS FOR ANY / ALL EQUIPMENT LISTED ON THESE PLANS AS 'EXISTING'.
 - GENERAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND WALL LOCATIONS. ALL DIMENSIONS ARE TO FINISHED WALL AND/OR CENTER LINES OF COLUMNS.
 - ANY DIMENSIONS LABELED "HOLD" OR "CRITICAL" MUST MAINTAIN THAT FINISHED DIMENSION. ALL CORNERS TO BE 90° OR AS SPECIFIED. ANY DISCREPANCIES WITH SPECIFIED DIMENSIONS REQUIRING TRIM OR EQUIPMENT MODIFICATION IS TO BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR AT THEIR EXPENSE.
 - GENERAL CONTRACTOR / OWNER SHALL BE RESPONSIBLE FOR INSURING THAT ALL ADDENDA AND CHANGES TO BUILDING PLANS WHICH ARE MADE PRIOR TO AND DURING CONSTRUCTION ARE PROVIDED TO TROPICAL SMOOTHIE CAFE.
 - THESE DRAWINGS ARE NOT MEANT TO REPLACE ARCHITECTURAL OR ENGINEERING PLANS. IF DISCREPANCIES EXIST, REFER TO THE ARCHITECT'S CONSTRUCTION DOCUMENTS.
 - THE LATEST DATED REVISION SUPERSEDES AND VOIDS ALL PREVIOUS DRAWINGS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COLLECTING ALL OLD COPIES OF THE PLAN SET & DISTRIBUTING CURRENT COPIES TO ALL SUBCONTRACTORS.
 - REFER TO THE EQUIPMENT VENDOR WITH ANY CONCERNS OR QUESTIONS REGARDING DELIVERY AND STORAGE OF EQUIPMENT.
 - FOLLOWING FINAL FIXTURES INSTALLATION THE GENERAL CONTRACTOR SHALL CLEAN-UP AND DISPOSAL OF ALL TRASH, CARTONS, CREATES, DEBRIS, ETC.

VENDOR CONTRACT MATRIX

SHERWIN-WILLIAMS CHRIS OLDEN 2191 NORTHLAKE PKWY, STE 107 TUCKER, GA 30084 PHONE: 404.694.7994	CREATIVE MATERIALS JESSICA SHELDON ONE WASHINGTON SQUARE ALBANY, NY 12205 PHONE: 1.800.207.2697 EXT. FIRE (3473) FIREHOUSESUBSTILE@CREATIVEMATERIALSCORP.COM
DALTILE TERRI MILLER, NATIONAL ACCOUNT MANAGER TERRIE.MILLER@DAL.TILE.COM OFFICE: 216.409.3153 OR TERRY TAMPA, ARCHITECTURAL REPRESENTATIVE TERRY.TAMPA@DAL.TILE.COM EMAIL: 407.297.8997 OFFICE: 407.402.0815	JACKSON LIGHTING & ELECTRICAL SUPPLY JONATHAN MOSS DIRECT: 904.638.4253 TOLL FREE: 866.526.8956 OR EMAIL: FIREHOUSESUBS@JACKSONELECTRICSSUPPLY.COM JACKSON LIGHTING PORTAL, WWW.FIREHOUSESUBSLIGHTING.COM
NATIONAL ACCOUNTS TEAM PHONE: 877.556.5728	
ELIASON CORPORATION PHONE: 800.828.3655 FAX: 800.828.3577 EMAIL: QUOTES-ORDERS@SENNECA.COM	

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A2.0	EQUIPMENT PLAN
A2.1	FINISH PLAN
A3.0	DETAILS
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P2.0	WATER PIPING PLAN
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E1.0	ELECTRICAL
E2.0	POWER PLAN
E3.0	LIGHTING PLAN

PROJECT NAME
FIREHOUSE SUBS

PROJECT LOCATION
**11492 MIDDLEBELT RD.
LIVONIA, MI 48150**

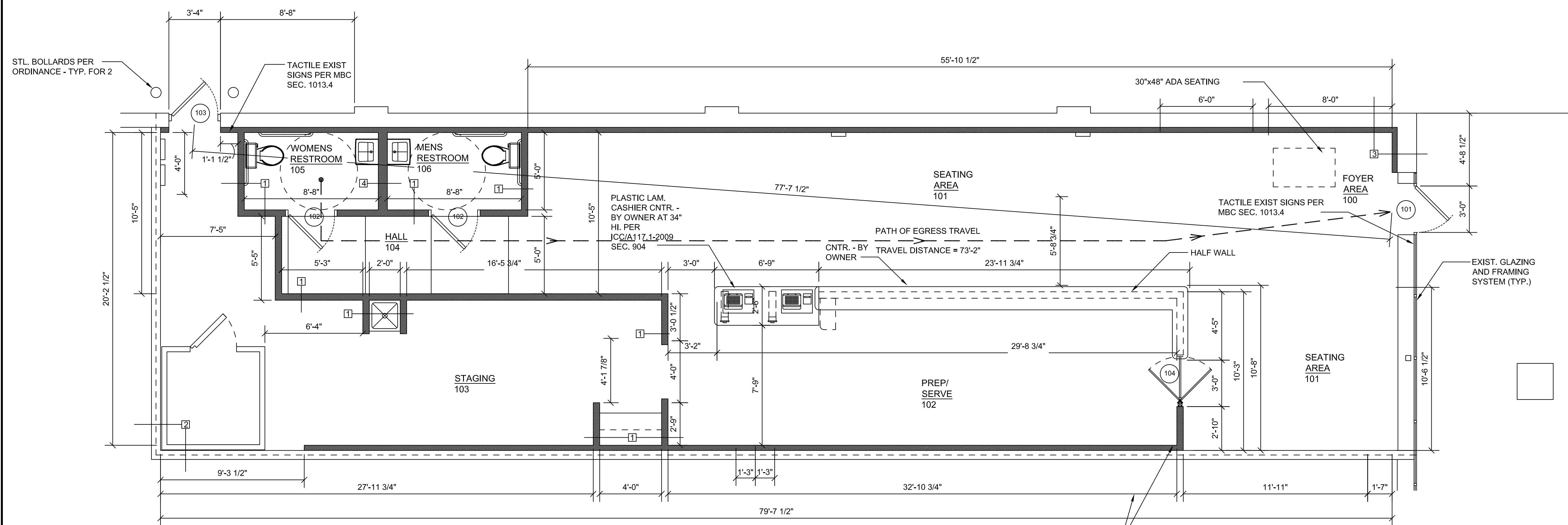
DRAWING INDEX NO.	TITLE PLAN REVIEW - PERMITS CONSTRUCTION SET	DATE
		01/13/22
		01/14/2022

NO.	TITLE

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PROJECT MANAGER

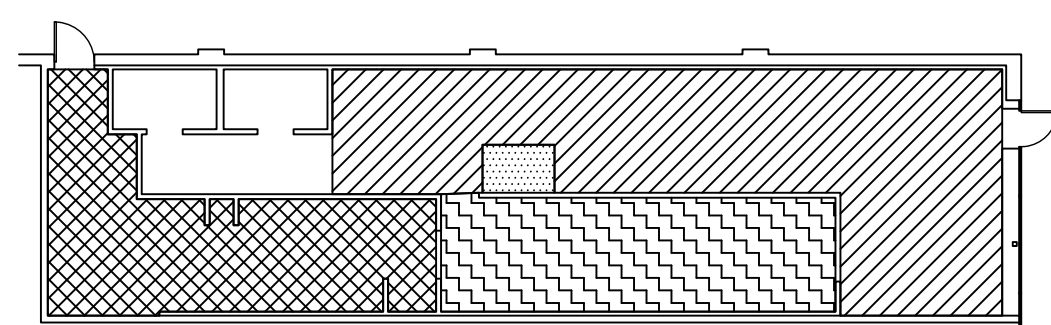
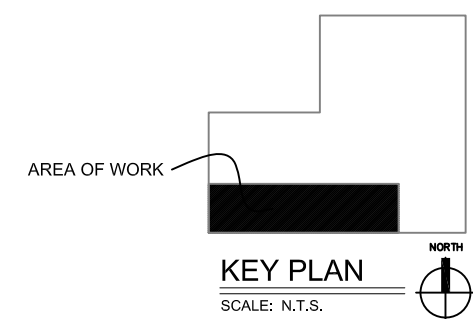
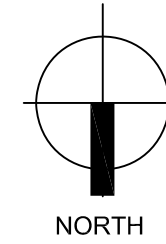
PROJECT NUMBER
21195

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FLOOR PLAN

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

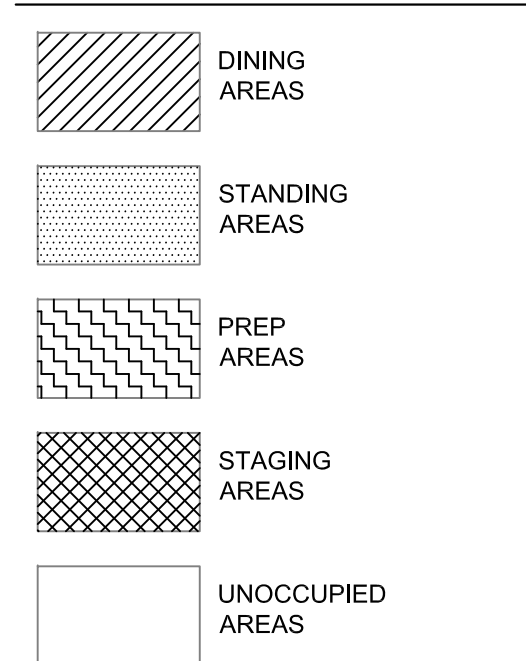
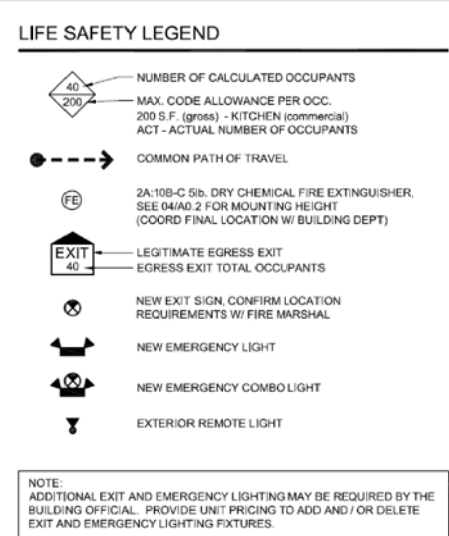


OCCUPANCY CLASSIFICATION

USE	AREA	LOAD FACTOR	OCCUPANTS
CUSTOMER AREA	691 SF	ACTUAL	28
STAGING AREAS	339 SF	100	3
STAGING AREA	311 SF	1000	2
PREP AREAS	314 SF	1000	2
UNOCCUPIED AREAS	189 SF	1000	0
TOTAL	1569 SQFT		37

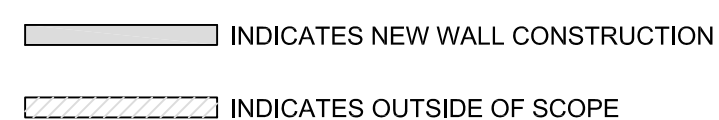
SEATING COUNT			
4 TOP TABLE	11	=	22
18 TOP TABLE	2	=	2
TOTAL		=	27

ACCESSIBILITY COUNT			
TOTAL TABLES PROVIDED	=	27	6
TOTAL SEATS PROVIDED	=	29	4%
NO. OF ACCESSIBLE TABLES REQUIRED	=	1	
NO. OF ACCESSIBLE TABLES PROVIDED	=	1	



GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS NOTED IN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
- ALL DIMENSIONS SHOWN ARE FACE OF BRICK, MASONRY OR METAL STUD FRAMING UNLESS NOTED OTHERWISE.
- PROVIDE DEEP LEG DEFLECTION TRACK AT ALL METAL STUD CONNECTIONS WITH STRUCTURE ABOVE-TYPICAL.
- PROVIDE FIRE RATED WOOD BLOCKING IN METAL STUD WALLS FOR ANY WALL SUPPORTED ITEMS, INCLUDING RESTROOM ACCESSORIES.
- PROVIDE APPROVED FIRE RATED STOPPING MATERIALS IN ANY OPENINGS IN FIRE RATED ASSEMBLIES.
- PRIOR TO ORDERING ANY PRODUCTS-CONTRACTOR SHALL SUBMIT SAMPLES TO THE ARCHITECT OF ALL FINISH MATERIALS TO BE USED ON THE PROJECT. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY MATERIALS ORDERED INCORRECTLY WHEN THAT MATERIAL WAS NOT REVIEWED BY THE ARCHITECT.



WALL TYPES

- INTERIOR WALL PARTITION: 1 LAYER 5/8" GYPSUM BOARD EACH SIDE OF 3 5/8" 20 GA. METAL STUDS @ 16" O.C. TO 4" ABOVE LAY-IN CLG. OR CLG. HT. - PROVIDE SOUND ATTN. BATTS AT TOILET ROOMS
NOTE: PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS
- INTERIOR WALL PARTITION: ONE HOUR TENANT DEMISING WALL CONSTRUCTION - VERIFY IN FIELD
- EXTERIOR WALL: 1 LAYER 5/8" GYPSUM BOARD OVER 3 5/8" 20 GA. METAL STUDS @ 16" O.C. TO 4" ABOVE LAY-IN CLG. OR CLG. HT. WITH R-19 INSUL. ON EXISTING WALL CONSTRUCTION
- INTERIOR WALL PARTITION: 1 LAYER 5/8" GYPSUM BOARD EACH SIDE OF 6" 20 GA. METAL STUDS @ 16" O.C. TO 4" ABOVE LAY-IN CLG. OR CLG. HT. - PROVIDE SOUND ATTN. BATTS AT TOILET ROOMS
NOTE: PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS

DOOR SCHEDULE

#	SIZE	THK.	MATERIAL	FRAME	TYPE	REMARKS	HARDWARE
102	3'-0" X 7'-0"	1-3/4"	WOOD	METAL	FLUSH SOLID CORE	NEW INTERIOR DOOR	HWS-4
102	3'-0" X 7'-0"	1-3/4"	WOOD	METAL	FLUSH SOLID CORE	NEW INTERIOR DOOR	HWS-4
104	3'-0" WIDE DOUBLE SWINGING DOOR					ELIASON SWING GATE P11; RED	SWING GATE HDWR
101	3'-0" X 7'-0"	1-3/4"	ALUM/GLASS	ALUMINUM	STOREFRONT	STOREFRONT ENTRY (EXISTING)	HWS-1
103	3'-0" X 7'-0"	1-3/4"	METAL	METAL	EXISTING	EXTERIOR EXIT DOOR (EXISTING)	HWS-2

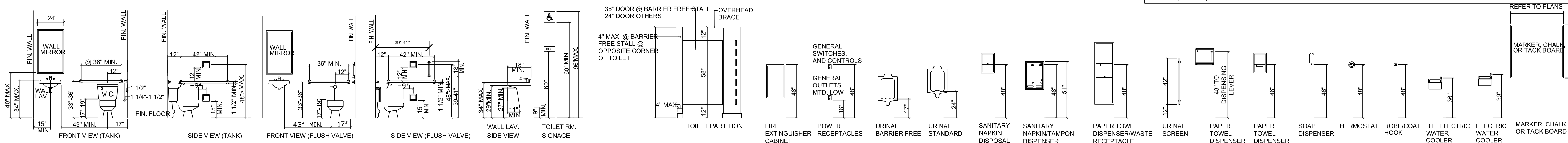
DOOR NOTES:

- ALL NEW INTERIOR WOOD DOORS ARE TO BE CLEANED AND TOUCHED UP TO RECEIVE NEW SCHEDULED FINISH.
- LOCKING DEVICES ON REQUIRED EXIT DOORS SHALL NOT REQUIRE THE USE OF A KEY, A TOOL, OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM THE EGRESS SIDE OF THE DOOR, EXCEPT AS SPECIFICALLY PERMITTED BY SECTION 1008.1.9 (2010 FBC).
- ALL INTERIOR DOOR LOCKSETS/PASSAGE SETS ARE TO BE HANDICAP ACCESSIBLE WITH LEVER ACTION HANDLES AND MOUNTED AT 40" ABOVE THE FINISHED FLOOR.
- CONTRACTOR IS TO ADJUST ALL DOORS TO NORMAL WORKING OPERATION WHICH INCLUDES THE REPAIR OR REPLACEMENT OF HARDWARE AND WEATHER STRIPPING AS REQUIRED.
- CONTRACTOR TO VERIFY THAT THE EXISTING RESTROOM DOORS HAVE CLOSERS. IF NOT, CONTRACTOR IS TO INSTALL NEW CLOSER ON EACH RESTROOM DOOR.
- ALL DOORS SHALL HAVE AN OPENING FORCE OF FIVE POUNDS MAXIMUM.
- ALL DOORS SHALL BE HEAVY DUTY, GRADE 1, COMMERCIAL QUALITY.
- WHERE EXIT DEVICE IS SPECIFIED, AN ADA COMPLIANT PANIC EXIT DEVICE EQUAL TO VON DUPRIN SERIES 98/99 SHALL BE PROVIDED.
- ALL HARDWARE TO HAVE SATIN ALUMINUM ANODIZED FINISH.

DOOR HARDWARE:

HWS-1 CLOSER (ADA COMPLIANT) PUSH / PULL PLATES CYLINDER LOCK (KEY EXT, THUMB TURN INT) ALUM THRESHOLD (ADA COMPLIANT) SWEEP WEATHERSTRIP OFFSET PIVOTS	LCN DOOR MFGR BEST DOOR MFGR DOOR MFGR DOOR MFGR DOOR MFGR	HWS-3 N/A
HWS-2 CLOSER (ADA COMPLIANT) LOCKSET CYLINDER LOCK ALUM THRESHOLD (ADA COMPLIANT) SWEEP WEATHERSTRIP	LCN SCHLAGE BEST DOOR MFGR DOOR MFGR DOOR MFGR HAGER	HWS-4 3 HINGES BB1279 4-1/2X4-1/2 1 LOCKSET AL40PD-NED KICK PLATE 10X34 .050 WALL BUMPER 409 CLOSER 4111-H-CUSH ALUM.

*DIAMOND PLATE KICK PLATE ON EACH SIDE OF DOOR



TYPICAL FIXTURE AND ACCESSORY ELEVATIONS

SCALE: NOT TO SCALE

KEY NOTES

- PROVIDE BLOCKING FOR WALL OR CEILING MOUNTED EQUIPMENT. COORDINATE WITH TENANT ON EXACT LOCATION.
- PLASTIC LAMINATE MANAGER'S DESK, SEE DETAIL.
- ALL WALLS IN ROOM '103 STAGING', TO BE USED AS BLOCKING FOR ALL APPLICABLE EQUIPMENT
- MOP SINK CONSTRUCTED WITH SHOWER DAM COVERED WITH QUARRY TILE FLOORING AND WALLS UP TO 5'-0" AFF. PROVIDE 4" TALL X 4" WIDE CURB AT FRONT OF SINK. PROVIDE S.S. REDUCED PRESSURE ZONE ASSEMBLY, PLASTIC LAMINATE CASH REGISTER COUNTER, SEE DETAILS.
- FALSE COLUMNS CONSTRUCTED OF METAL STUDS AND CONCRETE BACKER BOARD WITH ADHERED THIN BRICK FINISH. DIMENSIONS SHOWN ARE TO FINISH BRICK.
- PLASTIC LAMINATE DRINK CABINET WITH STAINLESS STEEL TOP AND DIAMOND PLATE DOORS, SEE DETAIL.
- THIN BRICK VENEER INSTALLED OVER CEMENT BOARD, SEE FINISH SCHEDULE FOR TYPE/COLOR.
- WALL MOUNTED MURAL, SEE INTERIOR ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION. MURAL PROVIDED BY TENANT, INSTALLED BY CONTRACTOR.
- PLASTIC LAMINATE FRONT COUNTER ON PARTIAL HEIGHT WALL, SEE DETAIL. PROVIDE FRP ON UNDERSIDE OF COUNTERTOP
3" RADIUS, TYPICAL
- CO2 TANK BY VENDOR, COORDINATE LOCATION WITH VENDOR
- (3) 12" DEEP X 3/4" THK. WHITE MELAMINE SHELVES ON HD ADJUSTABLE BRACKETS
- 2' X 2' X 3/4" THK. F.R. PLYWOOD PHONE BOARD, INSTALL WITH TOP AT 10'-0" A.F.F.
- NEW 42 CIRCUIT ELECTRICAL PANELS, SEE ELECTRICAL PLANS.
- NEW ADA COMPLIANT WHITE VITREOUS CHINA WALL HUNG LAVATORY (PRO FLO-PF518WH) W/ TWO-HANDLE FAUCET (PRO FLO-PFWSG1340SLCP), OR APPROVED EQUAL.
- NEW ADA COMPLIANT WHITE VITREOUS CHINA HIGH EFFICIENCY PRESSURE ASSISTED 1.0 GPF TOILET; BOWL (PF1603PAWH) TANK (PF1612PAWH) W/ SEAT, OR APPROVED EQUAL.
- EXISTING STORE FRONT DOORS AND WINDOWS.
- TYPE 2A-10BC FIRE EXTINGUISHERS MOUNTED BETWEEN 3'-0" AND 4'-0" A.F.F. VERIFY LOCATIONS WITH LOCAL FIRE OFFICIAL
- 2X8 WOOD TRIM, STAINED WITH ST-1, TO ALIGN WITH BULKHEAD ABOVE AND PROVIDE FINISHED EDGE WITH BRICK VENEER ENDS.
- 6" METAL STUD AND 5/8" GYPSUM BOARD BULKHEAD W/ WOOD FRAMED TRANSOM WINDOWS. SEE INTERIOR ELEVATIONS AND CEILING PLAN.
- 2X12 BUILT-UP WOOD COLUMN STAINED ST-1 (3), WITH 3/8" BOLTS & WASHERS PAINTED BLACK.
- ELIASON P-11 PLUS GATE. FINISH TO BE ORDERED RED. POST HEIGHT TO BE 48"
- PROVIDE PLASTIC LAMINATE END PANEL AT END OF POS COUNTER UP TO TOP OF HIGH COUNTER, SEE CASEWORK DETAILS FOR PROFILE. FINISH TO MATCH COUNTERTOP.

GREAT LAKES BAY CONSTRUCTION
DESIGN-BUILD GENERAL CONTRACTOR

2525 N. EASTMAN RD. MIDLAND, MI 48842
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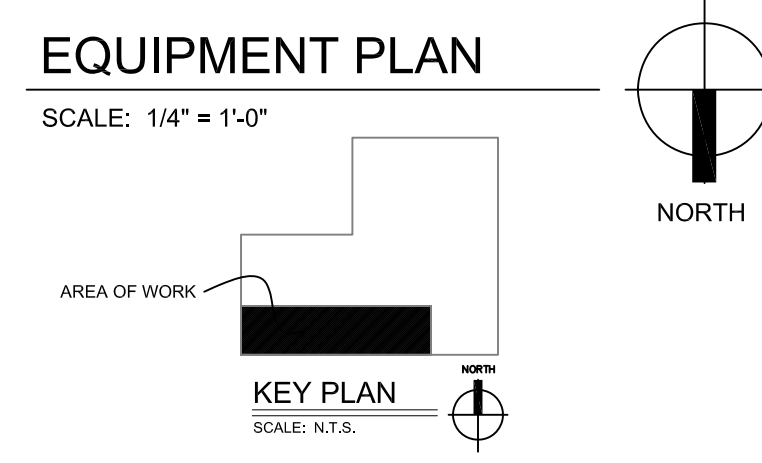
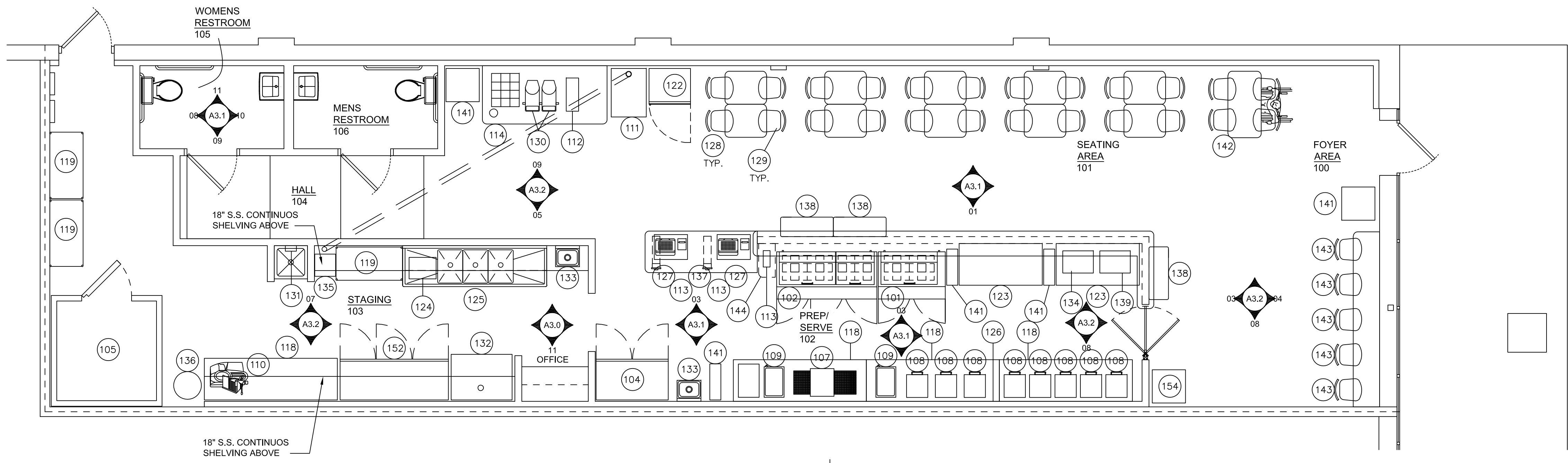
PROJECT NAME: **FIREHOUSE SUBS**
PROJECT LOCATION: **11492 MIDDLEBELT RD. LIVONIA, MI 48150**

DRAWING INDEX	TITLE	DATE
NO.	PLAN REVIEW PRELIMS	01/14/2022
	CONSTRUCTION SET	

DATE	DRAWN	PROJECT MANAGER
	BM	

PROJECT NUMBER: **21195**
PAGE: **1**

SHEET: **A1.0**



FOODSERVICE EQUIPMENT SCHEDULE

MARK	DESCRIPTION	QTY	MANUFACTURER	MODEL NUMBER	UTILITY REQUIREMENTS	REMARKS	MARK	DESCRIPTION	QTY	MANUFACTURER	MODEL NUMBER	UTILITY REQUIREMENTS	REMARKS
101	48" REF. SANDWICH UNIT	1	TRUE FOOD SERVICE	TSSU-48-18MB	115V/60/1 PH, 8.6A, 1/3 HP, NEMA 5-20		126	MENU BOARDS	1 SET	BY VENDOR			
102	72" REF. SANDWICH UNIT	1	TRUE FOOD SERVICE	TSSU-72-30MB	115V/60/1 PH, 15.0A, NEMA 5-15		127	CASH REGISTER	2	BY VENDOR		COORD. WITH VENDOR	COORD W/ FRANCHISE
103	SOLID DOOR COOLER	1	TRUE FOOD SERVICE	T-23	115V/60/1 PH, 7.2A, 1/3 HP, NEMA 5-15	GLASS DOOR REACH-IN	128	24" X 30" TABLE	10	B&J			
104	2 DOOR REACH-IN FREEZER	1	TRUE FOOD SERVICE	T-49F	115V/60/1 PH, 11.0A, 3/4 HP, NEMA 5-15P	NOT USED	129	CHAIR	24	B&J PEERLESS			
105	WALK-IN FREEZER	1	TRUE FOOD SERVICE				130	TEA URNS	2	BY VENDOR			
105A	COOLER REMOTE CONDENSER	1			208-230V/60/1 PH, 18.1A, 2 HP	ON ROOF	131	WATER HEATER	1	RANNAI	R94LSI	SEE PLUMBING DWGS.	SEE NOTE 6
106	WALK-IN COOLER	1	TRUE FOOD SERVICE				132	ICE MAKER	1	HOSHIZAKI	KM-901MRH	208/230V/60/1 MCA: 16.0A -VERIFY W/ PLUMB. REQ.	SEE NOTE 10
106A	FREEZER REMOTE CONDENSER	1			208-230V/60/1 PH, 7.2A, 1 HP	ON ROOF	133	HAND SINK W/ SPLASH GUARD EACH SIDE AND FAUCET	2	JOHN BOOS	PBHS-W-1410-P-SSLR	1/2" CW & HW, 2" RAIN	
107	TOASTER	1	HOLMAN	314HXETA	208V/1 PH, 5400W, 26.4/15.2A, NEMA 6-50P		134	COOKIE OVEN	1	CADCO	OV-003	120V, 12.5A, 1500W, NEMA 5-15	
108	STEAMER	8	ROUNDUP	DFW-150 FHS PART #9100169	120V/60, 1800W, 15.0A	SEE NOTE 8	135	SYRUP RACK AND PUMP	1	BY VENDOR		3, 4, 12	
109	FOOD WARMER	2	NEMCO	6055A	120V, 1200W, 10.0A		136	CO2 BOTTLE	1	BY VENDOR		2, 3, 5	SEE NOTE 3 & 4
110	SLICER	1	BIZERBA	GSP HD	120V/ 6.6A		137	CUP DISPENSER (ONE SIZE FITS ALL)	6	SAN JAMAR	C2410C		SEE NOTE 2, 3&5
111	FREESTYLE COKE MACHINE	1	BY VENDOR			PROVIDE ROUGH-IN ONLY FOR FUTURE INSTALLATION	138	MOBILE CHIP RACKS/ RAPID RESCUE	3	BY VENDOR	30X24X60		
112	COFFEE / TEA BREWER	1	BY VENDOR	ITCB		COORD. WITH VENDOR	139	MICROWAVE	1	PANASONIC	NE-1025	115V/60/1 PH, 15.0A, NEMA 5-15	
113	REMOTE PRINTER	3	BY VENDOR		2.5A/ DATA PROVIDED THRU CASH REG.	SEE NOTE 12	140	S.S. HOT SAUCE RACK	1	B&J PEERLESS	3-TIER	VERIFY W/ FRANCHISEE	SEE NOTE 10, 11. SEE ALT.
114	34" X 42" BEVERAGE COUNTER	1	BY G.C.		NONE		141	TRASH RECEPTACLES	5	BY VENDOR			(2) 24" SQUARE, (3) 6"X26"
115	MOBILE SLICER TABLE	1	DELTA PRO	DP-B4-4-GCW	AVAILABLE THROUGH BIZERBA	NOT USED	142	24" X 48" TABLE (H.C. ACCESSIBLE)	1	B&J			
116	1 COMPARTMENT SINK	1	JOHN BOOS	E1S8-18-12R18	1/2" CW & HW - 3" DRAIN		143	BAR STOOLS	5	B&J			RED BAR STOOL FRAME
117	72" S.S. WORK TABLE	1	EAGLE	T3096SB		NOT USED	144	12"x26" PRINTER SHELF	1	BY G.C.	CUSTOM		SEE NOTE 15
118	96" S.S. WORK TABLE	3	EAGLE	T3096SB			145	18" DEEP WALL MOUNTED SHELVES	9	ADVANCE TABCO		GREEN EPOXY COATED	SEE NOTE 14
119	24" X 48" WIRE SHELVING	3	B&J	LGS2448 (SHELF) LGP74 (POSTS)		NOT USED	146	ICE & WATER DISPENSER	1	HOSHIZAKI	DM200B	115V/60/1 PH, 3/8" COLD WATER	
120	24" X 42" WIRE SHELVING	1	B&J	LGS2442 (SHELF) LGP74 (POSTS)		NOT USED	147	84" S.S. WORK TABLE	1	EAGLE	T3084SB		NOT USED
121	24" X 60" WIRE SHELVING	1	B&J	LGS2460(SHELF) LGP74 (POSTS)		NOT USED	148	30" S.S. WORK TABLE	1	EAGLE	T3030SB		NOT USED
122	BOTTLE COKE COOLER	1	BY VENDOR	GLASS DOOR COOLER	COORD. WITH VENDOR	NOT USED	149	24 X 36" WIRE SHELVING	1	B&J	LGS2436 (SHELF) LGP74 (POSTS)		NOT USED
123	60" S.S. WORK TABLE	2	ADVANCE TABCO MS SERIES	T3060SB		NOT USED	150	WALK-IN COOLER	1	BY VENDOR			COORD W/ TENANT'S VENDOR
124	GREASE TRAP	1	PROVIDED BY G.C.	SEE PLUMBING DWG.		NOT USED	151	14" X 42" WIRE SHELVING	1	B&J			NOT USED
125	3 COMPARTMENT SINK	1	JOHN BOOS	3S8-1812-T18	1/2" CW & HW - 3" DRAIN	SEE NOTE 7	152	3 DOOR REACH-IN COOLER	1	TRUE	T-72	115V/60/1 PH, 96A, 1/2 HP, NEMA 5-15P	78" X 29.5"
							153	CARBON MONOXIDE DETECTOR	1	FIRST ALERT	CP910 DESIGNER SERIES	3V LITHIUM BATTERY - 10YR LIFE	CEILING MTD IN DINING ROOM
							154	HIGH CHAIR	2	BY VENDOR			
							155	2-DOOR COOLER	1	TRUE	T-49	115V/60/1 PH, 5.8A, 1/3HP, NEMA 5-15P	NOT USED
							156	HAND DRYER W/ SPECIAL IMAGE	1	WORLD VERDE-DRI	Q-974A	1500 WATTS-SEE MFG. SPEC.SHEETS	CONSULT FHS ORDER FORM (HAND DRYER IS OPTIONAL)

- ** THE HAND DRYER IS AN OPTIONAL ITEM
- NOTES:
1. PURCHASED AND INSTALLED BY P.C. - HOOK UP TO NEW PLUMBING AND VERIFY PROPER WORKING ORDER.
 2. PROVIDE SERVICEABLE METAL HOLD DOWN STRAP FOR CO2 BOTTLE.
 3. PROVIDE 4" PVC PIPING SYSTEM FROM BAG-IN-BOX TO COKE FREESTYLE MACHINE.
 4. VERIFY W. VENDOR, TO ENSURE PROPER SPACE ALLOCATION.
 5. VERIFY W/ FRANCHISE FOR EXACT CO2 SYSTEM INSTALLATION AND OPERATIONAL REQUIREMENTS.
 6. PURCHASED AND INSTALLED BY G.C.
 7. GREASE INTERCEPTOR CAPACITY CALCULATION:
3 COMP. SINK (18x18x12x3) = 11.664 CI = 50.5 GAL.
CAPACITY = 75% = 37.9 GALLONS PER MINUTE BASED ON 1 MINUTE DRAIN
 8. NOT USED
 9. NOT USED
 10. SEE DESIGN MANUAL FOR ADDITIONAL INFORMATION.
 11. COORDINATE MOUNTING LOCATION WITH TENANT.
 12. PROVIDE S.S. REDUCED PRESSURE ZONE ASSEMBLY
 13. ICE MACHINE TO SIT ON BIN# ITEM #SCOTBS30S
 14. SHELVING ALONG ENTIRE WALL AS SHOWN ON EQUIPMENT PLAN, COORDINATE WITH TENANT FOR MOUNTING HEIGHTS.
 15. 12" X 26" SHELF Q/ ANGLE BRACKETS TO THE WALL, PROVIDE (1) 1-1/2" DIA. GROMMET AND 3" RADIUS ON CORNER AT POS COUNTER, TRASH CAN SIT BELOW. REMOTE PRINTER TO SIT ON SHELF.

REQUIRED MINIMUM HEADROOM FOR EXIT ACCESS IN COMMERCIAL KITCHEN AREAS (SECTION 1003.3; AND ICC/ANSI A117.1-2009 (ANSI) SECTION 307): PROTRUDING OBJECTS SHALL HAVE A MINIMUM OF 80 INCHES HEADROOM CEILING HEIGHT FOR ANY WALKING SURFACE (SECTION 1003.1), KITCHEN HOODS, FIXTURES OR FURNISHINGS SHALL NOT PROJECT HORIZONTALLY FROM EITHER SIDE MORE THAN 4 INCHES OVER ANY WALKING SURFACE BETWEEN THE HEIGHTS OF 27 INCHES AND 80 INCHES ABOVE THE WALKING SURFACE (SECTION 1003.3).

THE GC IS RESPONSIBLE FOR RECEIVING, UNLOADING, AND ASSEMBLING ENTIRE EQUIPMENT PACKAGE AS SHOWN.

ALL REFRIGERATION MUST BE NSF APPROVED

ALL EQUIPMENT SHALL BE PROVIDED BY TENANT AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.

IN PUBLIC SPACES, ALL ACCESSIBLE DINING SURFACES SHALL HAVE TOPS OF DINING SURFACES AND WORK SURFACES BE 28 INCHES MINIMUM AND 34 INCHES MAXIMUM IN HEIGHT ABOVE THE FLOOR PER ICC A117.1-2009, SECTION 902.4.

CONSTRUCTION FIELD NOTES
FIREHOUSE SUBS FRANCHISEE/ CONTRACTOR

ALL WORK PERFORMED MUST BE COMPLETED IN ACCORDANCE WITH FIREHOUSE OF AMERICA DESIGN STANDARD PER YOUR PARTICULAR CONSTRUCTION DOCUMENTS (NO EXCEPTIONS). YOU WILL BE REQUIRED TO REPLACE INCORRECT MATERIALS, AND THE RESTAURANT WILL NOT BE ALLOWED TO OPEN UNTIL CORRECTED. IF THERE ARE QUESTIONS OR DISCREPANCIES REGARDING DESIGN, DIMENSIONS, SPECIFICATIONS, FINISHES, AND ETC., DO NOT MAKE A DECISION ON YOUR OWN. BRING IT TO THE AREA REP. AND TOGETHER A DECISION CAN BE REACHED.

THE FOLLOWING LIST CONTAINS HIGHLIGHTS OF OUR FINISHES THAT ARE TO BE FOLLOWED:

- * CEILING GRID & TILE: USG DX 15/16 WHITE GRID, USG 2X2 WHITE USG RADAR CLIMA-PLUS CEILING PANELS #2220, SLT EDGE, USG 2X2 WHITE USGSHEETROCK CLIMA-PLUS CLEAN ROOM #3260, SQ EDGE.
 - * BACK OF HOUSE ARCH OPENINGS: TRIMMED IN BLACK WITH A DIAMOND PLATE CAP FROM TOP OF QUARRY OR WOOD BASE TO 6'-3".
 - * PAINT SCHEME: INTERIOR DOORS AND FRAMES-SAFETY RED, RUNNING TRIM (BASE/CHAIR/CROWN)-GLOSS BLACK, BEVERAGE AREA/HALLWAY WALLS-WHITE, RESTROOM WALLS-WHITE EPOXY, WOOD COLUMNS/ENTRY ARCH/TRANSOM WINDOW TRIM-STAINED (RUST-OLEUM: KONA OR MINWAX:DARK WALNUT).
 - * WOOD COLUMNS/ MURAL: SPACING BETWEEN MURAL AND WOOD COLUMNS SHOULD BE PER THE DESIGN STANDARD. STAINED WOOD COLUMNS TO HAVE 3/4" BOLT HEADS WITH WASHERS EXPOSED. PAINTED FLAT BLACK.
 - * WOOD ENTRY ARCH (IF INCLUDED IN YOUR RESTAURANT DESIGN): ARCH SHAPE SHOULD BE A TRUE SEGMENTAL ARCH SHAPE. OTHER SHAPES WILL NOT BE ACCEPTED.
 - * FLOORING: THERE IS A DELIBERATE DESIGN TO THE DIRECTION AND GROUPTATTERN OF THE FLOOR TILES.
 - * BEVERAGE STATION: TOE KICK - IF QUARRY TILE IS UNDER BEVERAGE STATION, THERE SHOULD BE A QUARRY TILE TOE KICK, IF PORCELAIN TILE IS UNDER THE BEVERAGE STATION, IT SHOULD HAVE A PORCELAIN TILE TOE KICK, BEVERAGE STATION DOORS ARE TO HAVE DIAMOND PLATE PANELS, WITH A P PERIMETER REVEAL AND SOUTHCO PUSH-TO-CLOSE, MEDIUM SIZE LATCHES.
 - * PORCELAIN/QUARRY TILE INSTALLATION PROCEDURE
 - o CLEAN SLAB.
 - o SET TILE.
 - o APPLY PENETRATING SEALER (AQUA MIX "PRO SOLV") TO QUARRY TILE
 - o APPLY GROUT
 - o CLEAN GROUT USING WATER AND AQUA MIX "GROUT HAZE CLEANUP" (3TO 5 OZ PER GALLON OF WATER).
 - o COVER ENTIRE FLOOR WITH CONTRACTOR'S PAPER.
 - o AT COMPLETION OF CONSTRUCTION, UNCOVER AND CLEAN FLOOR.
 - * TILE GROUT: WHITE, RED, AND BLACK BULLNOSE TILE GETS WHITE GROUT - BLACK COVE BASE, PORCELAIN, AND QUARRY TILE GETS CHARCOAL GROUT.
 - * RESTROOM WALL TILE: THE PLACEMENT OF RED WALL TILE SHOULD BE ONE RED TILE PER VERTICAL ROW, RANDOMLY INSTALLED (DO NOT PLACE RED TILES BEHIND TOILET, SINK, OR MIRROR).
 - * RESTROOM COAT HOOK: ANCHORED TO THE RESTROOMS DOORS @ 48" ABOVE FLOOR (BOBRICK B23).
 - * ELIASON P11-PLUS SWING GATE Q/ MOUNTING POST: IS THE SWING GATE THE CORRECT SIZE? THE WIDTH OF THE SWING GATE SHOULD BE NO MORE THAN AN INCH (LESS IS PREFERRED) SMALLER THAN THE WIDTH OF THE OPENING (BETWEEN GATE POST AND TILE WALL), AND NO MORE THAN AN INCH BELOW THE BOTTOM OF THE COUNTERTOP. SEE ELEVATION.
 - * HVAC: DIFFUSERS, VENTS, GRILLES ARE TO BE HART & COOLEY MODELS, PER THE DESIGN STANDARDS. ALUMINUM RETURNS, REZIN DIFFUSERS.
 - * LIGHTING PACKAGE: ORDERED FROM JACKSON LIGHTING, DO NOT USE OTHER FIXTURE PACKAGES. THERE IS A SPECIFIC TRACK HEAD FIXTURE COUNT FOR EACH AREA IN THE RESTAURANT (MENU BOARD -8, MURAL-4, ENTRY BAY LEFT AND RIGHT WALLS-3 EACH SIDE).
 - * FIREHOUSE INTERIOR DECOR & PHOTOS* FOLLOW MOUNTING HEIGHTS ON PLANS. A COMPLETE DECOR PACKAGE MUST BE USED. ALL PHOTOS IN RESTAURANT ARE TO BE FRAMED, SIZED, AND MATTED PER THE CURRENT STANDARD.
 - * WHEN IN DOUBT, CHECK WITH YOUR AREA REP BEFORE MOVING FORWARD. NEVER SUBSTITUTE NON-APPROVED MATERIALS. AS YOU WILL BE ASKED TO REPLACE WITH APPROVED MATERIALS.
- THAN YOU FOR MAINTAINING OUR BRAND STANDARDS.

GREAT LAKES BAY
CONSTRUCTION
DESIGN-BUILD GENERAL CONTRACTOR

2525 N. EASTMAN RD. MIDLAND, MI 48642
PHONE: (989) 832-2000
FAX: (989) 832-2000

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PROJECT NAME
FIREHOUSE SUBS

PROJECT LOCATION
**11492 MIDDLEBELT RD.
LIVONIA, MI 48150**

DRAWING INDEX	NO.	TITLE	DATE
		PLAN REVIEW - FINISHES	09/23/22
		CONSTRUCTION SET	09/14/2022

SEAL

DATE

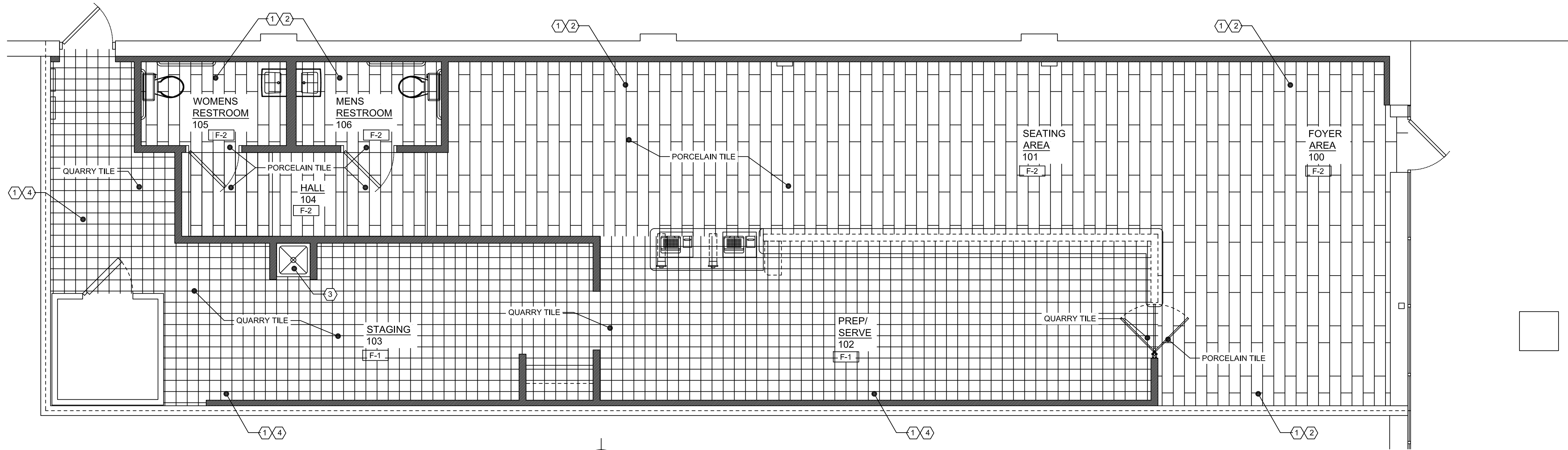
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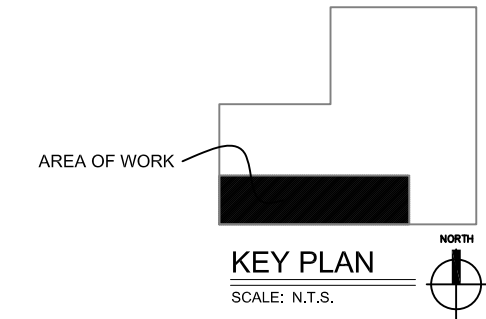
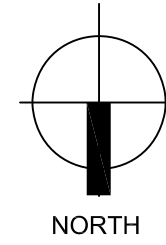
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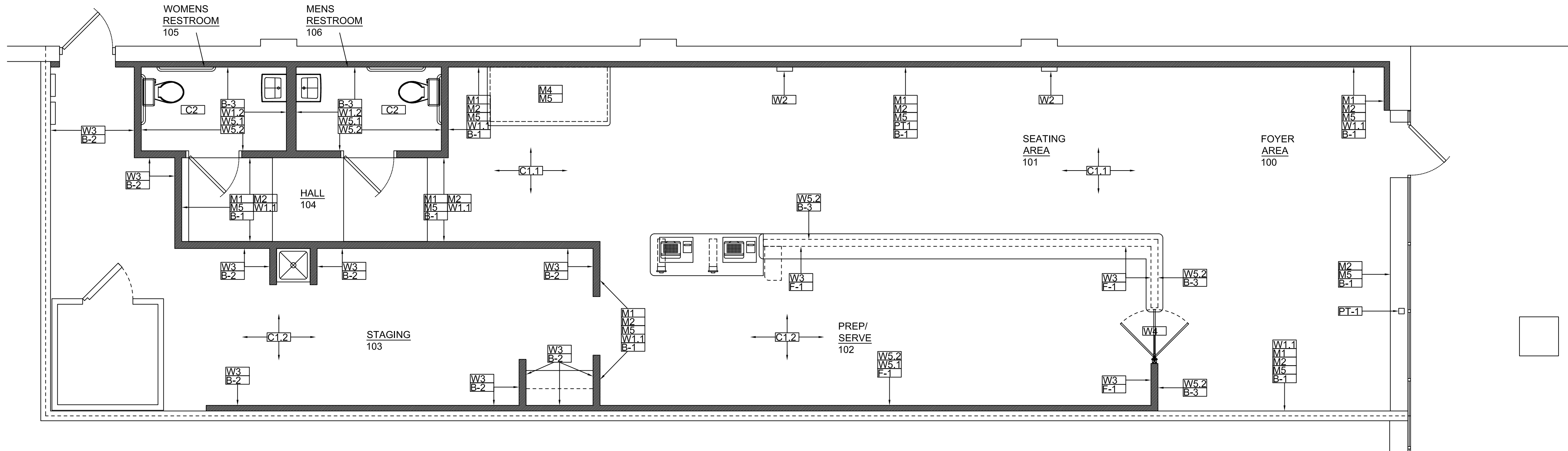
FLOOR FINISH PLAN

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



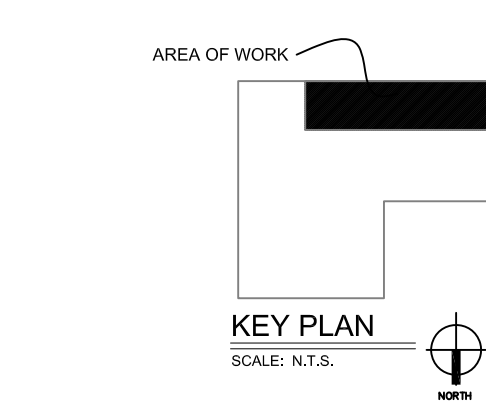
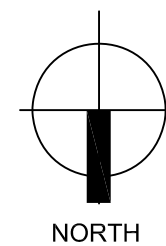
KEY PLAN

SCALE: N.T.S.



WALL FINISH PLAN

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



KEY PLAN

SCALE: N.T.S.

ROOM FINISH SCHEDULE									
ROOM NO.	ROOM NAME	WALLS				CEILING	REMARKS		
		FLOOR	BASE	N	S	E		W	FINISH
100	FOYER AREA	F-2	B-1	SEE ELEVATIONS			C3	12'-0"	#1, 6
101	SEATING AREA	F-2	B-1	SEE ELEVATIONS			C1,1	12'-0"	#1, 2, 6
102	PREP/ SERVE	F-1	B-2	SEE ELEVATIONS			C1,2	12'-0"	#1, 6
103	STAGING	F-1	B-2	W3	W3	W3	C1,2	10'-0"	#1, 6
104	HALL	F-2	B-1	SEE ELEVATIONS			C1,2	12'-0"	#1, 6
105	WOMENS	F-2	B-3	SEE ELEVATIONS			C2	8'-0"	#1, 2, 6
106	MENS	F-2	B-3	SEE ELEVATIONS			C1,1	8'-0"	#1, 2, 6

- NOTES:
 1. SEE INTERIOR ELEVATIONS FOR WALL FINISHES.
 2. PROVIDE LEVEL 5 FINISH DRYWALL FINISH SPECIFICATIONS.

FLOOR FINISH SCHEDULE						
MARK	MATERIAL	MANUFACTURER	PRODUCT	COLOR	SIZE	REMARKS
F-1	QUARRY TILE	DALTILE	TEXTURES - 0T01881P	DIABLO RED	6X8	3/8" JOINT, SEE FINISH PLAN
F-2	PORCELAIN TILE	CREATIVE MATERIALS	PORCELAIN TILE W/ 30% OFFSET	ESTATE VINEYARD	6X24	SMOOTH GYP BOARD, CUSTOM BUILDING PRODUCTS #60 CHARCOAL, 3/16" JOINTS, 30% OFFSET, SEE FLOOR PLAN.

BASE FINISH SCHEDULE						
MARK	MATERIAL	MANUFACTURER	PRODUCT	COLOR	SIZE	REMARKS
B-1	WOOD BASE *		PLANK - WG1261	FIREHOUSE BLACK	5-1/2"	SEATING, HALL AREAS
B-2	CERAMIC BASE	DALTILE	COVE - 0T01881P	DIABLO RED	6X6	PREP, STAGING AREAS
B-3	CERAMIC BASE	DALTILE	COVE - K111A3601P1	K111 BLACK	6X6	RESTROOMS
B-4	PORCELAIN TILE	CREATIVE MATERIALS	PORCELAIN TILE W/ 30% OFFSET	ESTATE VINEYARD	6X24	SEE FINISH PLAN

WALL FINISH SCHEDULE						
MARK	MATERIAL	MANUFACTURER	PRODUCT	COLOR	SIZE	REMARKS
W1.1	PAINTED GYP BD (SEE NOTE 6 BELOW)	BENJAMIN MOORE	ULTRA SPEC 500	SATIN - GRAY HUSKIE #1473		SEATING, HALL AREAS
W1.2	PAINTED GYP BD (SEE NOTE 6 BELOW)	SHERWIN WILLIAMS	PRO INDUSTRIAL RPE-CAYAZYZED W.B. EPOXY	SEMI-GLOSS WHITE K46-W151		RESTROOMS
W2	WOOD STAIN	KONA OR MINWAX	RUST-OLEUM ULTIMATE WOOD STAIN OR DARK WALNUT			SEE ELEVATIONS
W3	FRP LINER PANELS	CRANE COMPOSITES	SMOOTH OR TEXTURED FINISH FRP	P100 WHITE		EXTEND ABOVE CEILING, DO NOT EXTEND BEYOND THE WALL BASE, FOR CEILING MARK AND LOOK, ALSO BE ACCEPTED SEE FRP NOTE BELOW
W4	NOT USED					
W5.1	CERAMIC TILE	DALTILE	SEMI GLOSS DM1661P2	DM1 - VERMILLION	6X6	SEE ELEVATIONS
W5.2	CERAMIC TILE	DALTILE	SEMI GLOSS 019066P4	D190 - WHITE	6X6	SEE ELEVATIONS

CEILING FINISH SCHEDULE						
MARK	MATERIAL	MANUFACTURER	PRODUCT	COLOR	SIZE	REMARKS
C1.1	ACOUSTICAL CEILING TILE 1	USG	RADAR CLIMA-PLUS #2205LT EDGE DX 15/16 SLT GRID	WHITE	2X2	SEATING, HALL AREAS
C1.2	ACOUSTICAL CEILING TILE 2	USG	SHEETROCK LAY-IN #3260 CLIMA-PLUS VINYL DXLA15/16 SQ GRID	WHITE	2X4	PREP/SERVE, STAGING AREAS
C2	PAINTED GYP BD (SEE NOTE 6 BELOW)					RESTROOMS

PLASTIC LAMINATE SCHEDULE			
MARK	MATERIAL	PRODUCT	REMARKS
P1.1	PLASTIC LAMINATE	WILSONART	HOLLYBERRY RED - D307-60

MISC PAINT SCHEDULE			
MARK	MATERIAL	PRODUCT	REMARKS
PT1	SHERWIN WILLIAMS	SHER-CRYLACRYLIC	GLOSS SAFETY RED - B33R300
PT2	SHERWIN WILLIAMS	SHER-CRYLACRYLIC	GLOSS SAFETY BLACK - B66B300

MISC FINISH SCHEDULE						
MARK	MATERIAL	MANUFACTURER	PRODUCT	COLOR	SIZE	REMARKS
M1	WOOD CHAIR RAIL **		HOME DEPOT: #969-594 LOWES: #27215	FIREHOUSE BLACK	2-1/2"	
M2	WOOD CROWN ***		HOME DEPOT: #734-072 LOWES: #82051	FIREHOUSE BLACK	3-5/8"	
M3	NOT USED					
M4	STAINLESS STEEL		18 GA. #4 FINISH			
M5	ALUMINUM DECK PLATE (SEE NOTE 1 & 2 BELOW)			1/16" TREAD BRITE		SECURE TO WALL W/ LOCTITE 375 ADHESIVE, PROVIDE ALUMINUM GREY SEALANT AROUND PERIMETER AND JOINTS

- DIAMOND PLATE NOTE:**
 1. DIAMOND PLATE PANEL, M5, TO BE SECURED TO WALL WITH LOCTITE 375 ADHESIVE. PROVIDE ALUMINUM GREY SEALANT JOINT AT PERIMETER.
 2. ALUMINUM "U" SHAPED CORNER GUARD TRIM FOR ARCH OPENING, M6, FROM 0" A.F.F. TO 6'-3" A.F.F., LEGS TO BE 2-1/2" LONG, AND SECURED WITH LOCTITE 375 ADHESIVE. SEAL EDGES WITH ALUMINUM GREY SEALANT.

- FRP NOTE:**
 1. SMOOTH OR TEXTURED FINISH WHITE WITH TRIM ACCESSORIES OVER 1/2" PLYWOOD OR M.R. GYP. BE OVER MTL STUDS - EXTEND ABOVE CEILING (INSTALL ON ALL STAGING AREA WALLS INCLUDING BEHIND THE WALK-IN UNIT(S)).

- * AVAILABLE AT: LOWES - 8" S4S MDF - ITEM #45733, LOWES - 8" TRIM PLANK PVC - ITEM #209621, HOME DEPOT - 1/2" PVC - ITEM #245-750
 ** AVAILABLE AT: LOWES - 8" CHAIR RAIL - ITEM #27215, HOME DEPOT - ITEM #369-594
 *** AVAILABLE AT: LOWES - 8" CROWN - ITEM #82051, HOME DEPOT - #734-072

- KEY NOTES**
- PROVIDE MASONITE FLOOR PROTECTION AFTER INSTALLATION OF FLOOR TILE.
 - PORCELAIN PLANK TILES INSTALLED W/ 30% OFFSET AND 3/16" JOINT SPACING, SEE MATERIAL SCHEDULE.
 - MOP SINK TO BE FINISHED WITH QUARRY TILE. SEE DETAILS FOR ADDITIONAL INFORMATION.
 - QUARRY TILE IN THIS AREA TO BE INSTALLED AT 90° FROM WALL FACE.
 - EXISTING COLUMNS, GRIND SMOOTH AND PAINT P-1
 - ALL EXPOSED DRYWALL IS TO BE LEVEL 5 SMOOTH FINISH & READY FOR PAINT.

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PROJECT NAME: **FIREHOUSE SUBS**
 PROJECT LOCATION: **11492 MIDDLEBELT RD. LIVONIA, MI 48150**

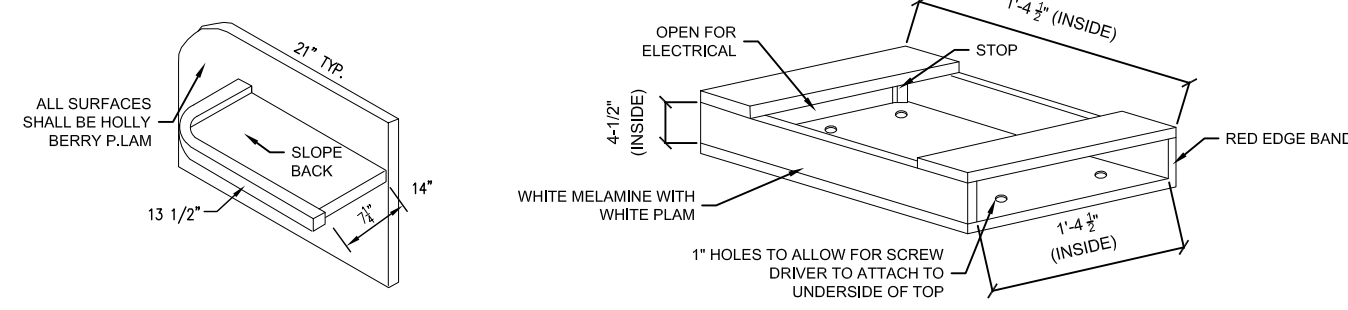
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2	CONSTRUCTION SET	01.14.2022

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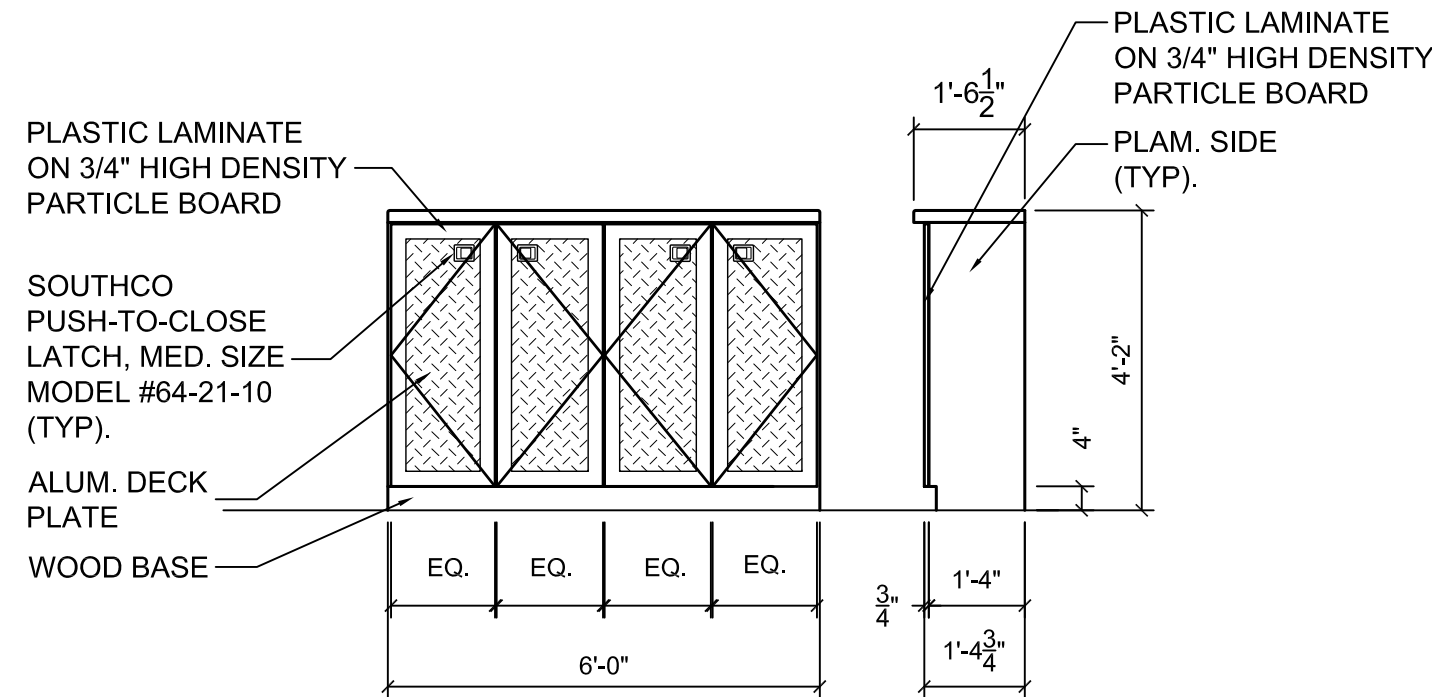
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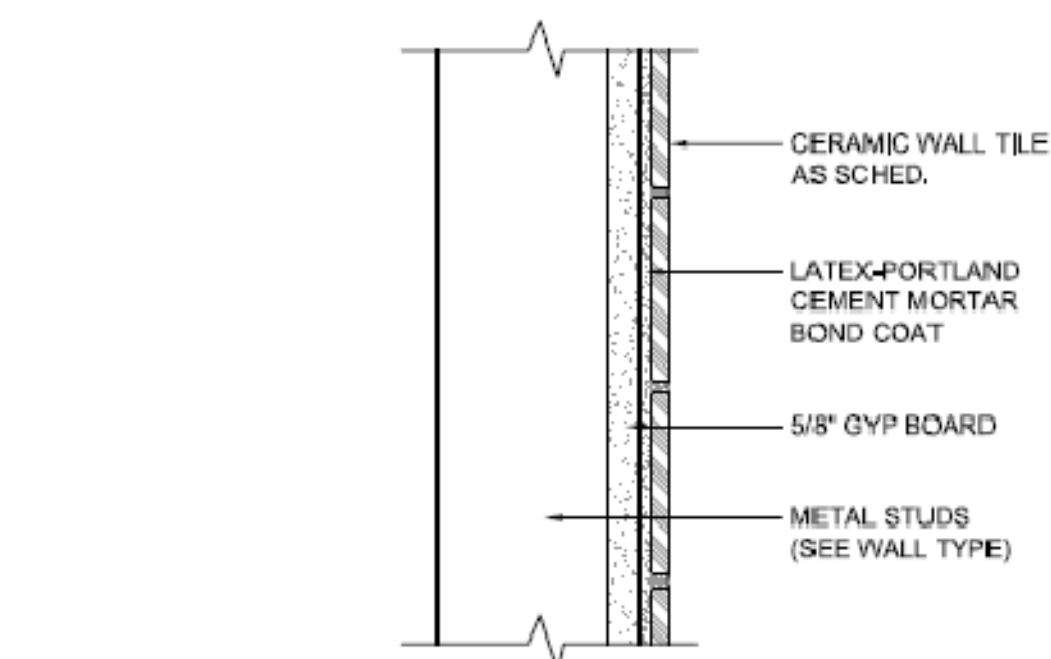
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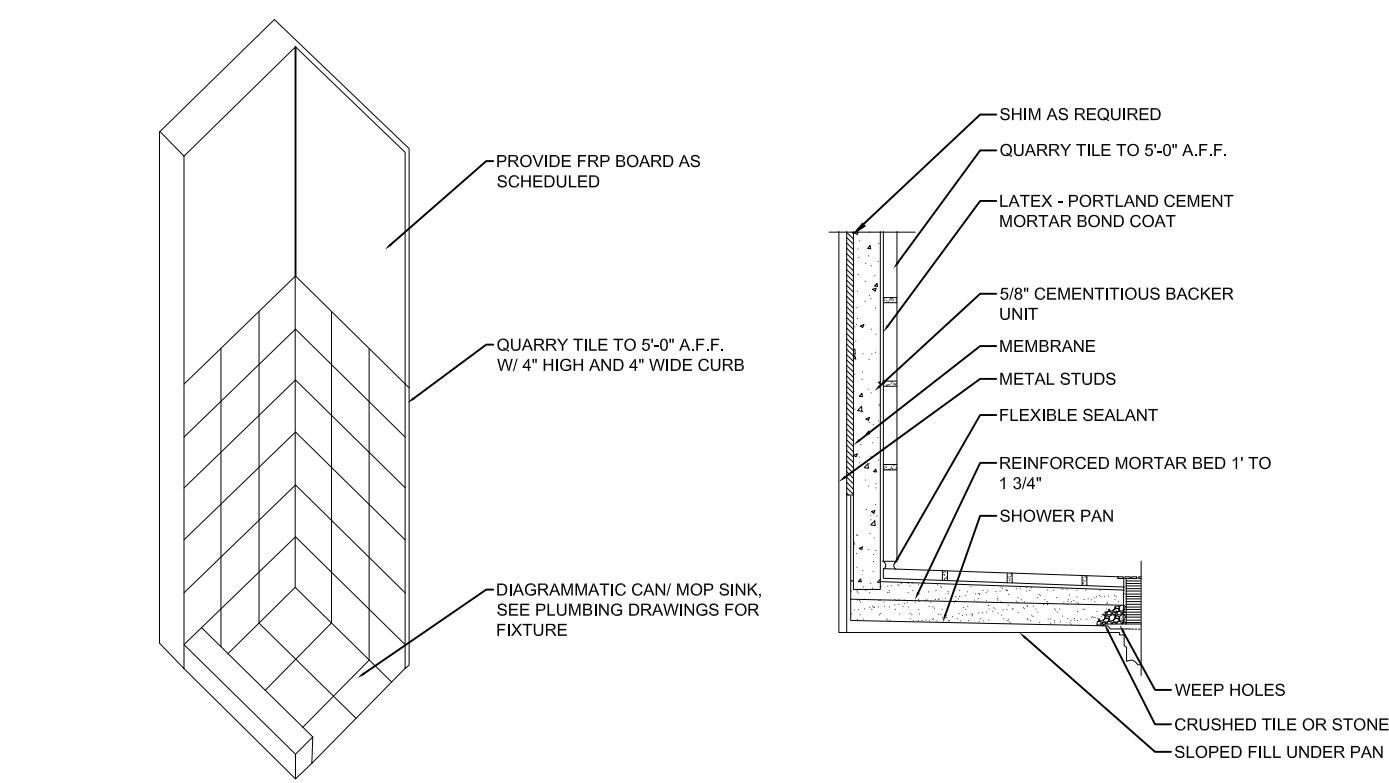
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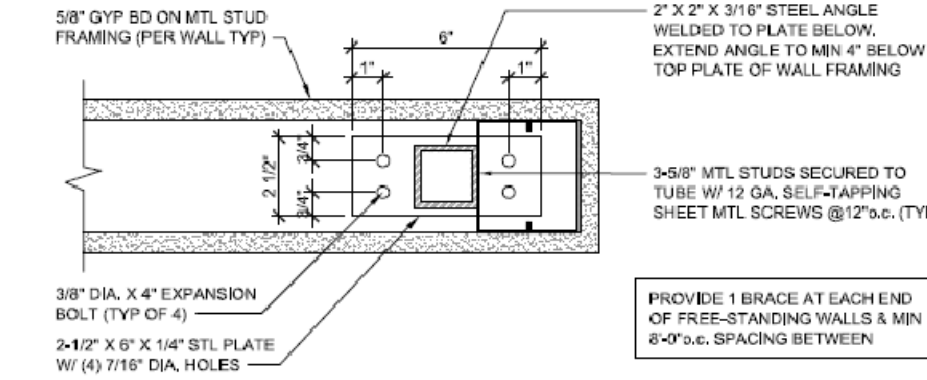
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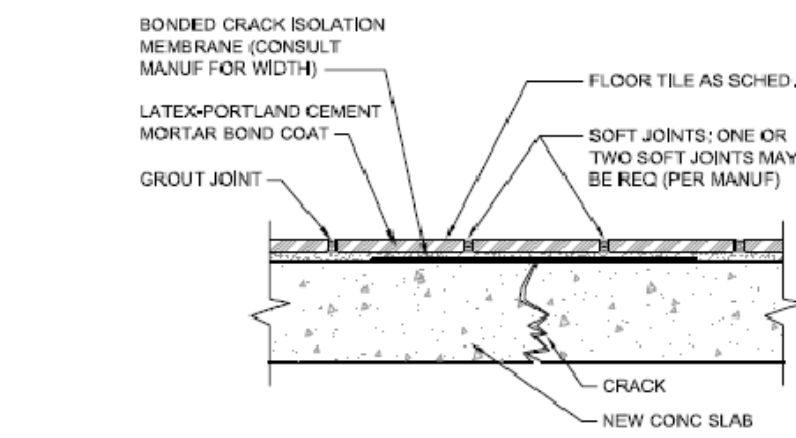
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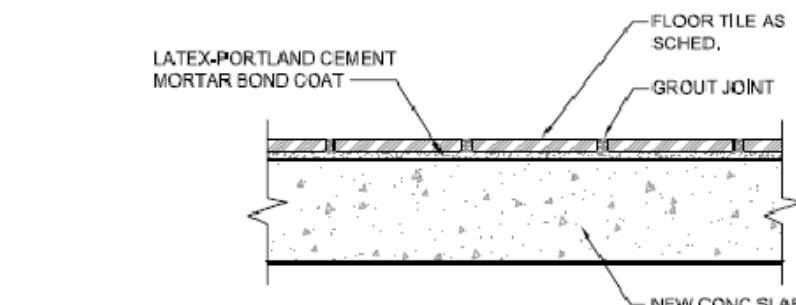
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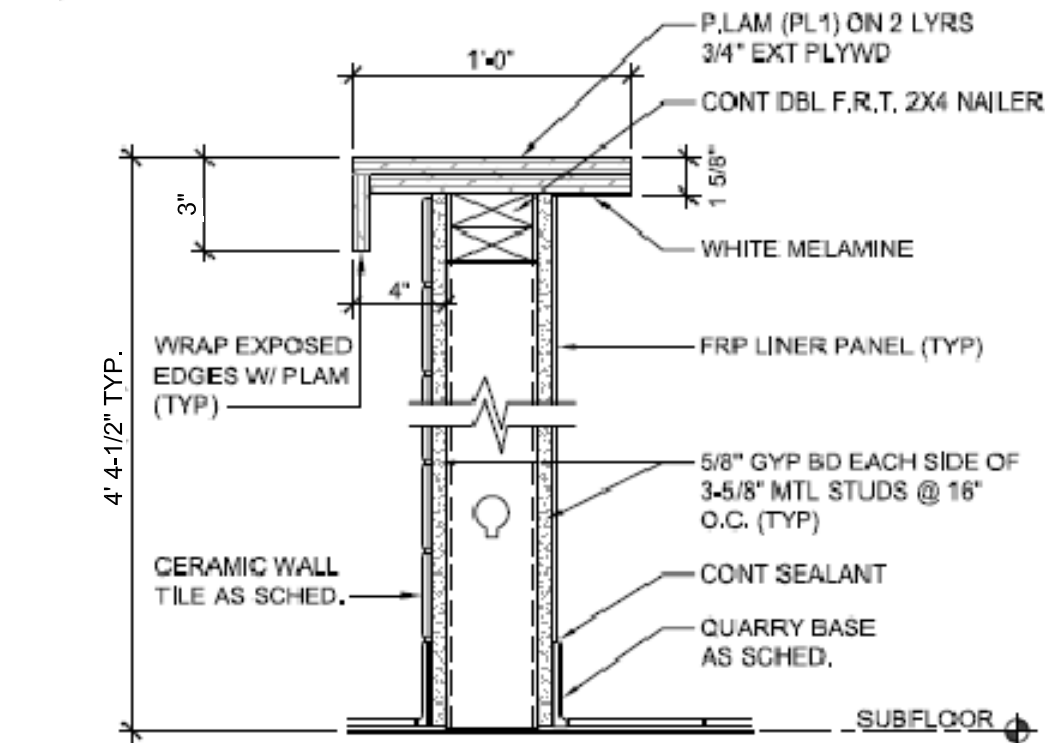
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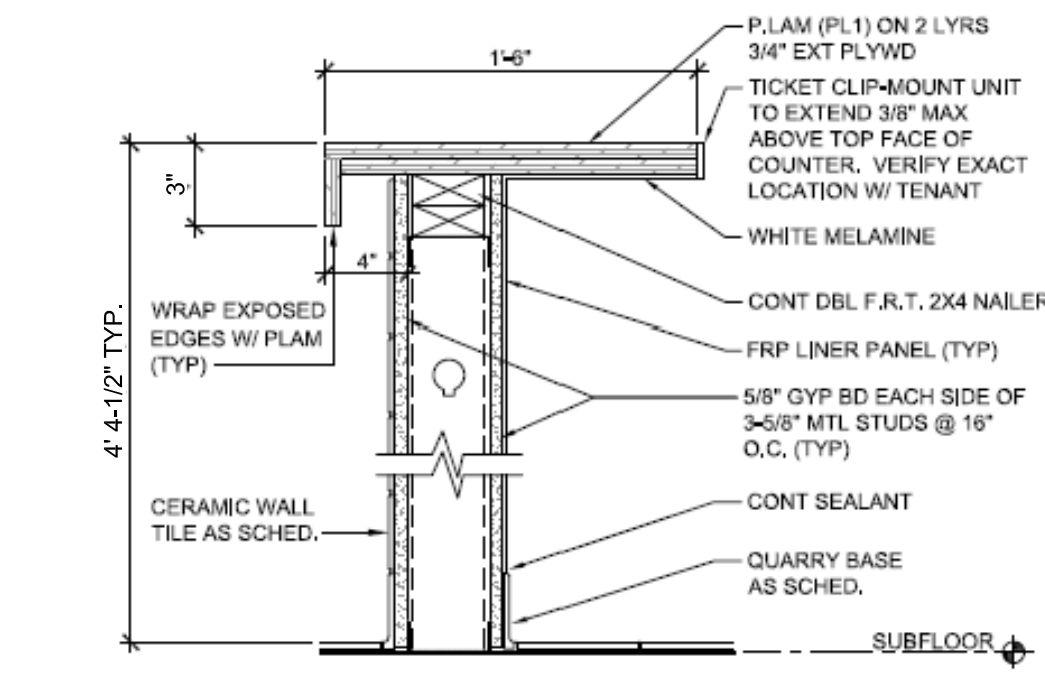
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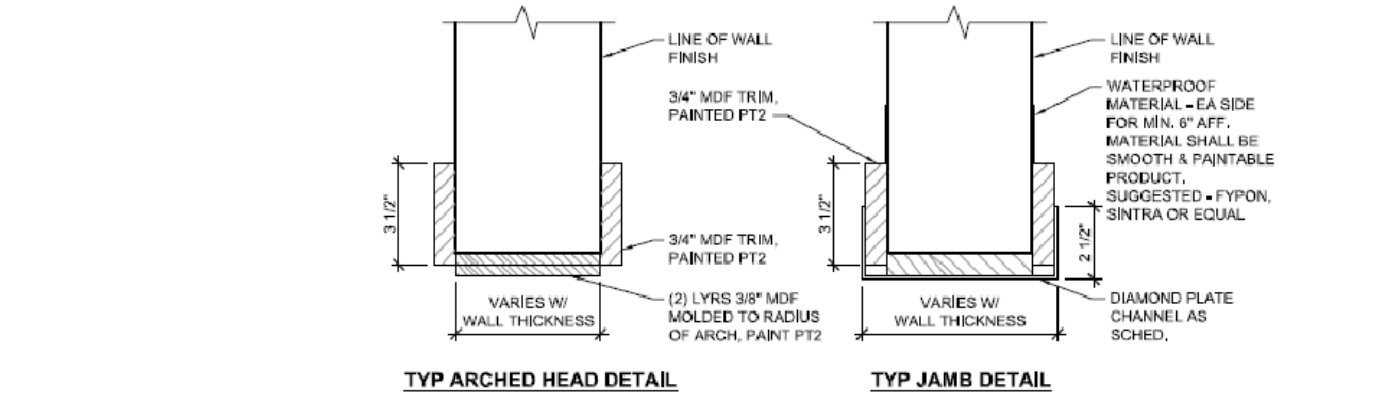
07 TYP FLOOR TILE DETAIL
A3.0 3\"/>



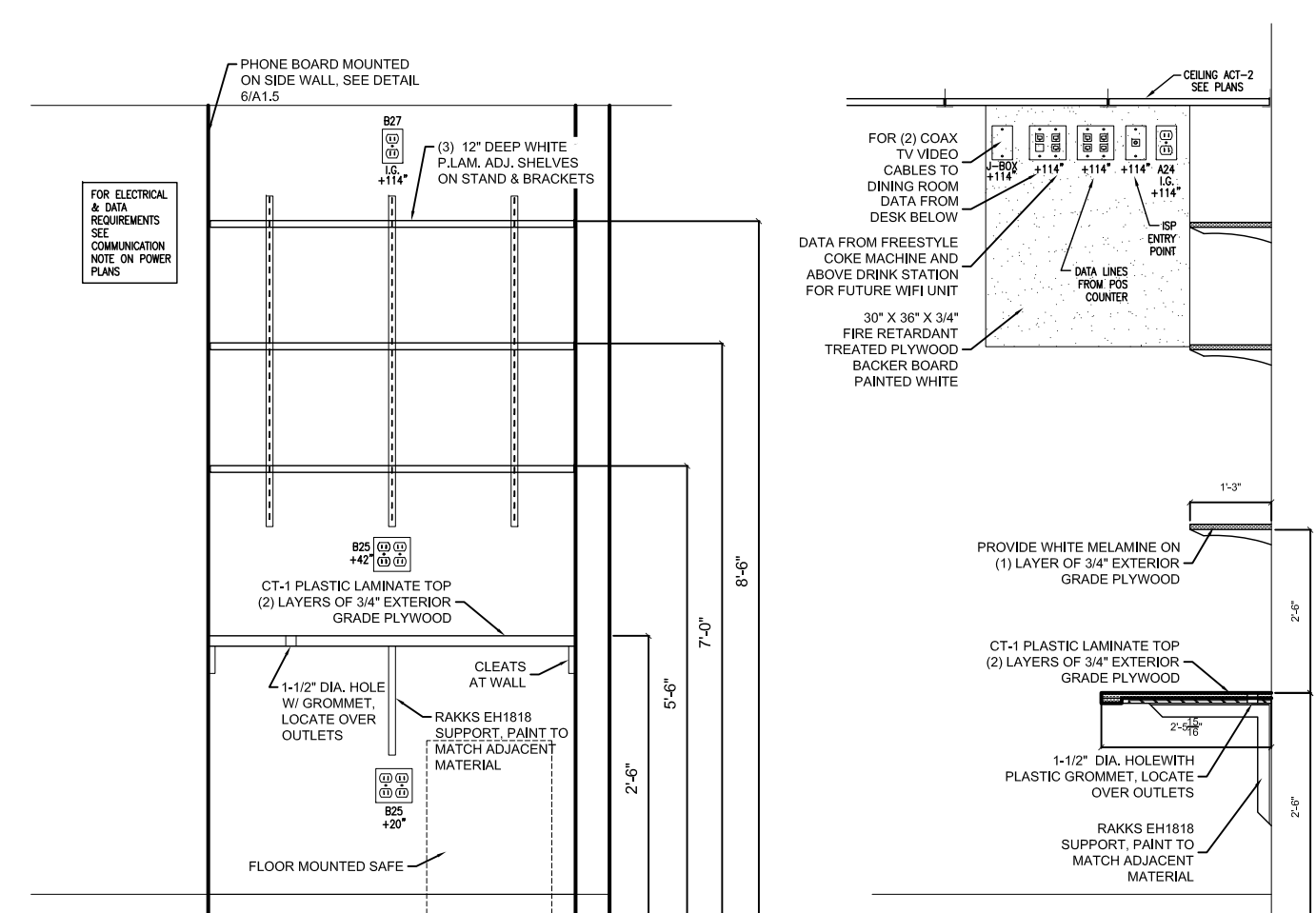
06 WALL SECTION DETAIL
A3.0 1 1/2\"/>



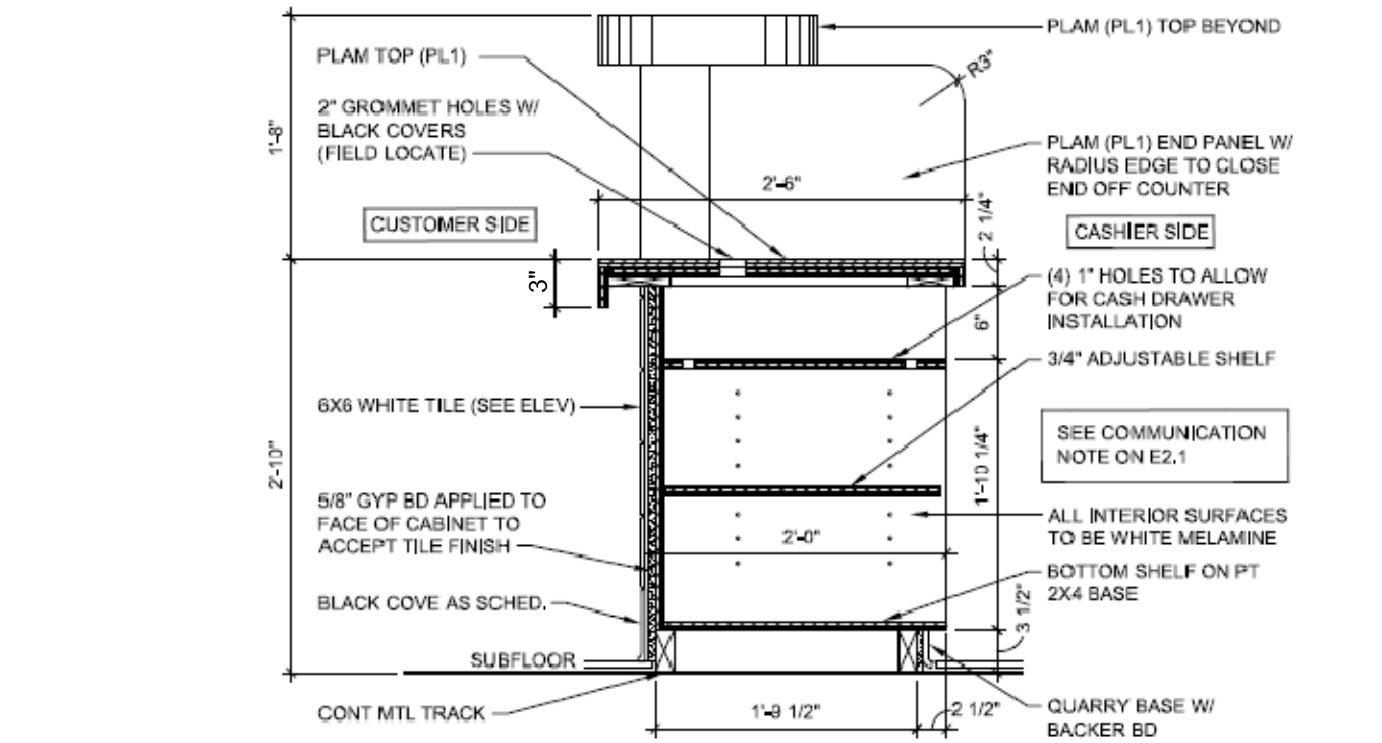
05 WALL SECTION DETAIL
A3.0 1 1/2\"/>



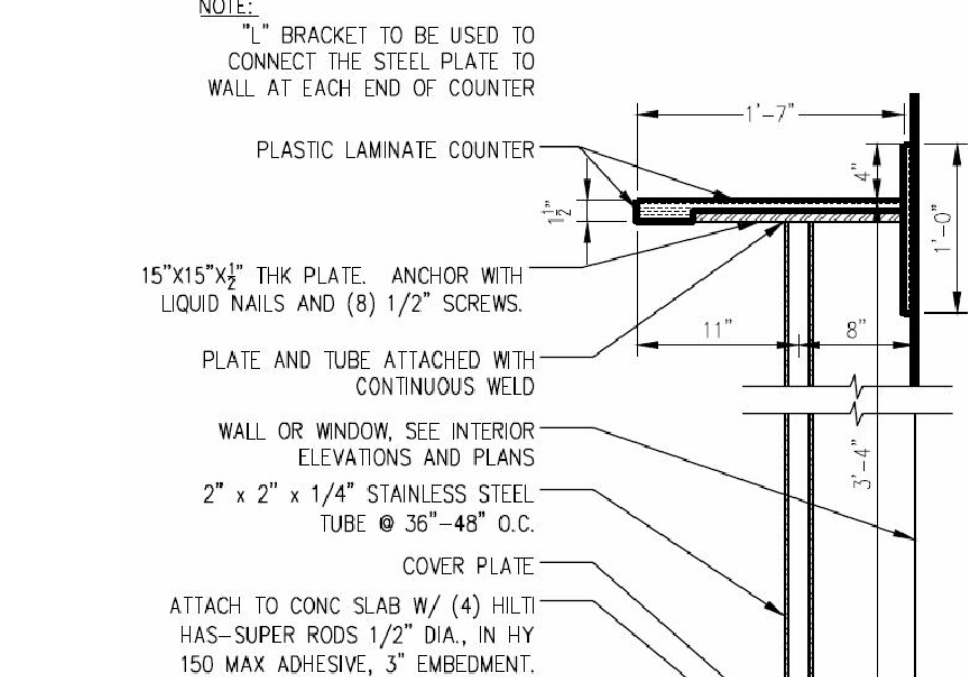
10 TYP ARCH OPENING TRIM DETAIL
A3.0 3\"/>



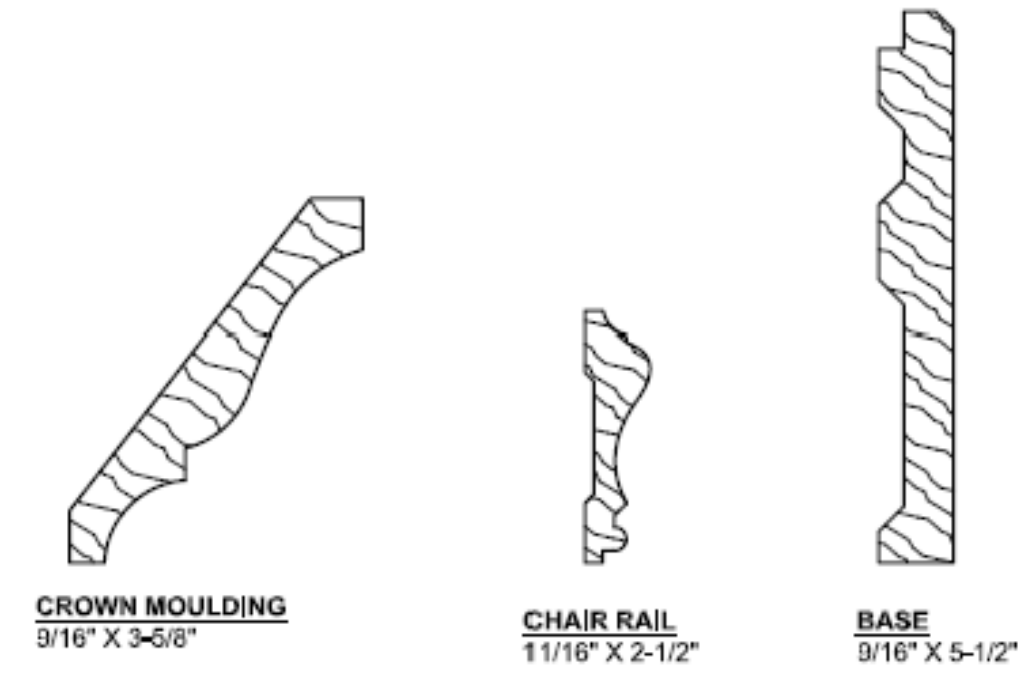
11 DESK DETAIL
A3.0 N.T.S.



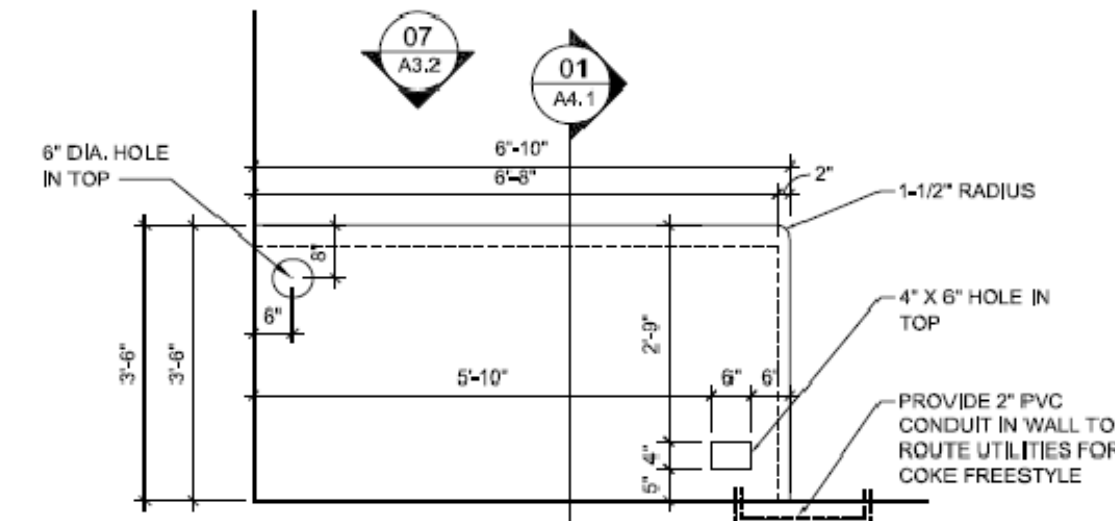
12 SERVICE COUNTER DETAIL
A3.0 1\"/>



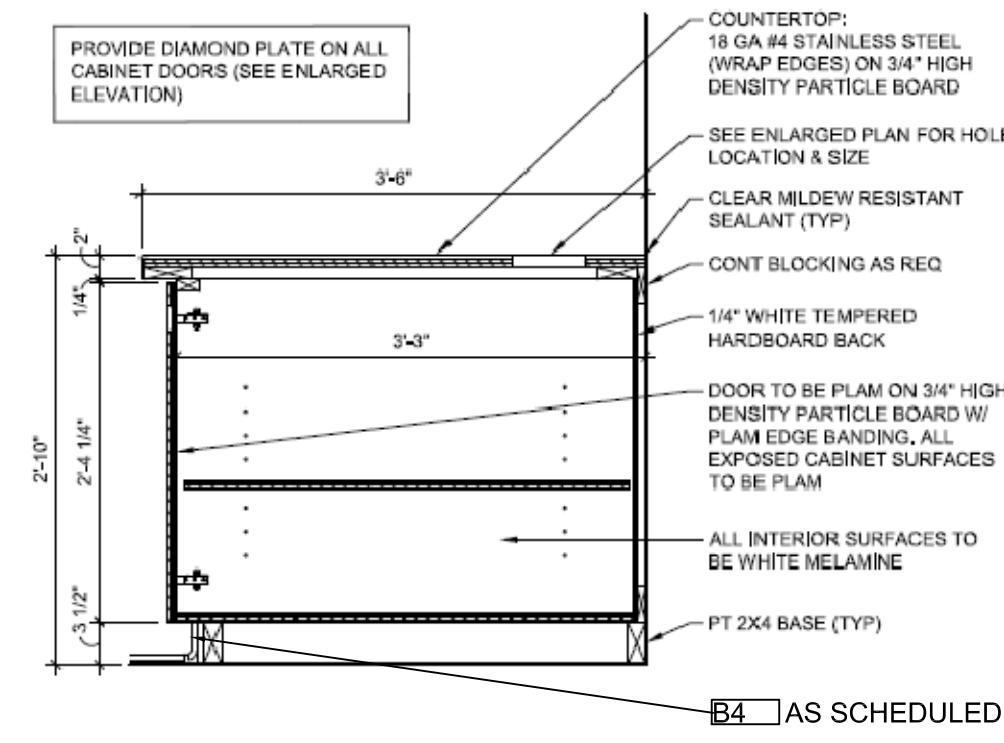
13 HI-TOP SECTION DETAIL
A3.0 1 1/2\"/>



16 TYP MOULDING PROFILES
A3.0 N.T.S.



15 BEVERAGE COUNTER ENLARGED PLAN
A3.0 1/2\"/>



14 BEVERAGE COUNTER DETAIL
A3.0 1\"/>

QUALITY CASEWORK NOTES

1. SCRIBE TOPS AND END PANELS AS REQUIRED FOR TIGHT, NEAT JOINTS. JOINTS SHALL NOT EXCEED 1/4"
2. CABINETS SHALL COMPLY WITH ANSI A161.1 SECTION 1600B OF ARCHITECTURAL WOODWORK QUALITY STANDARDS OR ARCHITECTURAL WOODWORK INSTITUTE
3. PROVIDE FINISHED END PANELS TO MATCH DOOR FINISH AND CONSTRUCTION AT ALL EXPOSED CABINET ENDS
4. PROVIDE SOUTHCO PUSH TO CLOSE LATCH (PADDLE LATCH, MEDIUM SIZE) MODEL NO. 64-21-10 ON ALL BEVERAGE COUNTER CABINET DOORS. HINGES SHALL BE SEMI CONCEALED BUTT H PROVIDE ALL ACCESSORIES AND FILLERS AS REQUIRED FOR PROPER INSTALLATION AND CLEARANCES
5. ANCHOR ALL CABINETS DIRECTLY TO STRUCTURAL MEMBERS OR BLOCKING
6. INSTALL ALL WORK LEVEL AND PLUMB. ADJUST ALL DOORS AND DRAWERS FOR PROPER ALIGNMENT AND OPERATION

QUALITY ASSURANCE NOTES

1. ALL WORK SHALL BE DONE ACCORDING TO APPLICABLE BUILDING CODES AND ORDINANCES AS WELL AS THE BEST PRACTICE AND STANDARDS OF THE TRADE. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING PROPER PERMITS AND PAYING ALL APPLICABLE FEES
2. THE CONTRACT DOCUMENTS DO NOT ATTEMPT TO DIVIDE AND ASSIGN WORK TO THE SUBCONTRACTORS. VERIFY WITH THE CONTRACTOR ASSIGNMENTS OF WORK; ESPECIALLY THOSE ITEMS WHICH COULD BE ASSIGNED TO VARIOUS SUBCONTRACTORS
3. EACH SUBCONTRACTOR IS SOLELY RESPONSIBLE TO BE INFORMED, TO PROVIDE FOR AND TO MAINTAIN SAFETY OF OPERATING EQUIPMENT AND HANDLING OF MATERIALS. THE CONTRACTOR SHALL COMPLY WITH SAFETY STANDARDS OF OSHA, MIOSHA AND ANY OTHER STANDARD ENFORCEABLE BY LAW

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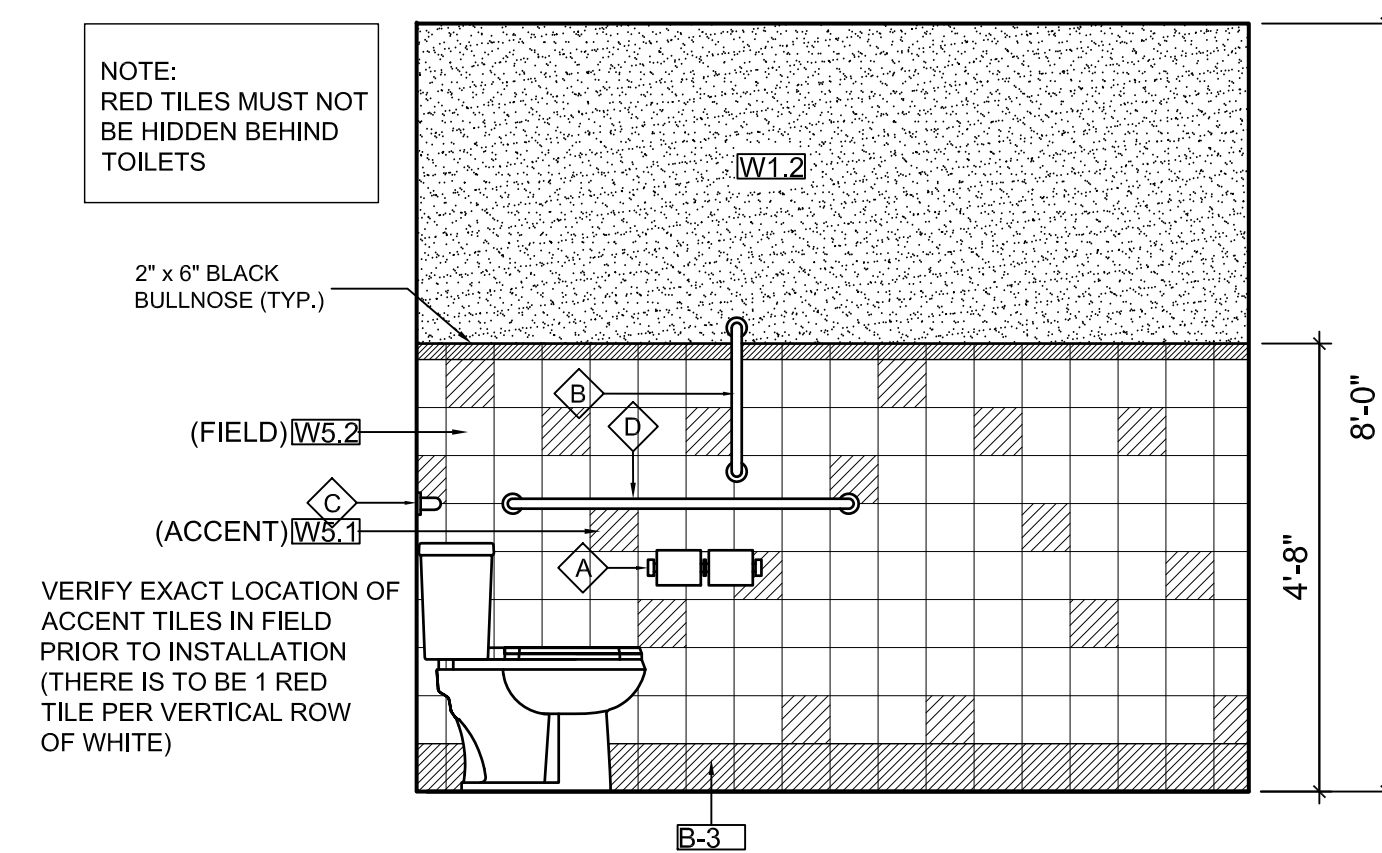
PROJECT NAME: FIREHOUSE SUBS
PROJECT LOCATION: 11492 MIDDLEBELT RD. LIVONIA, MI 48150

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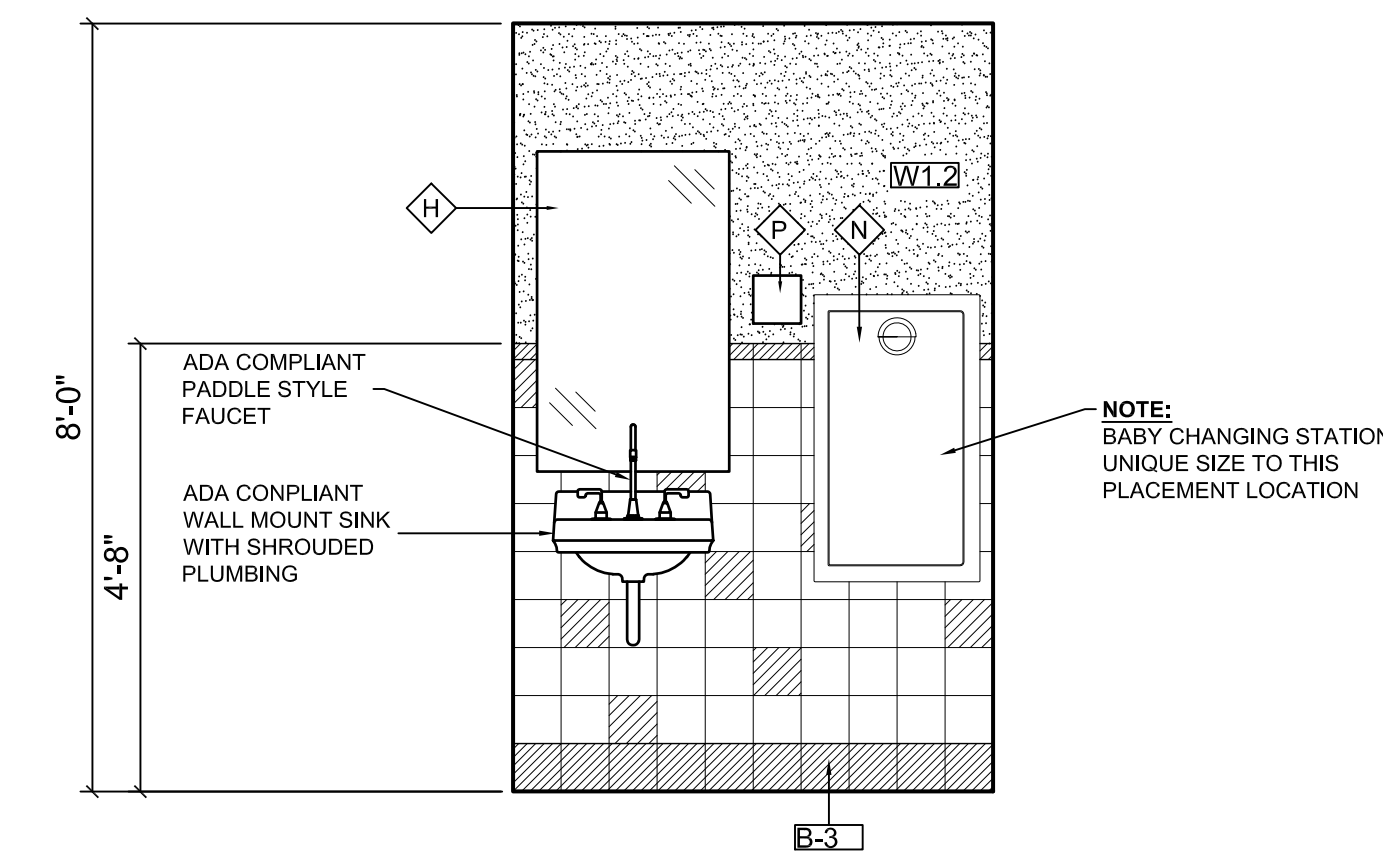
A3.0

NOTE:
RED TILES MUST NOT
BE HIDDEN BEHIND
TOILETS



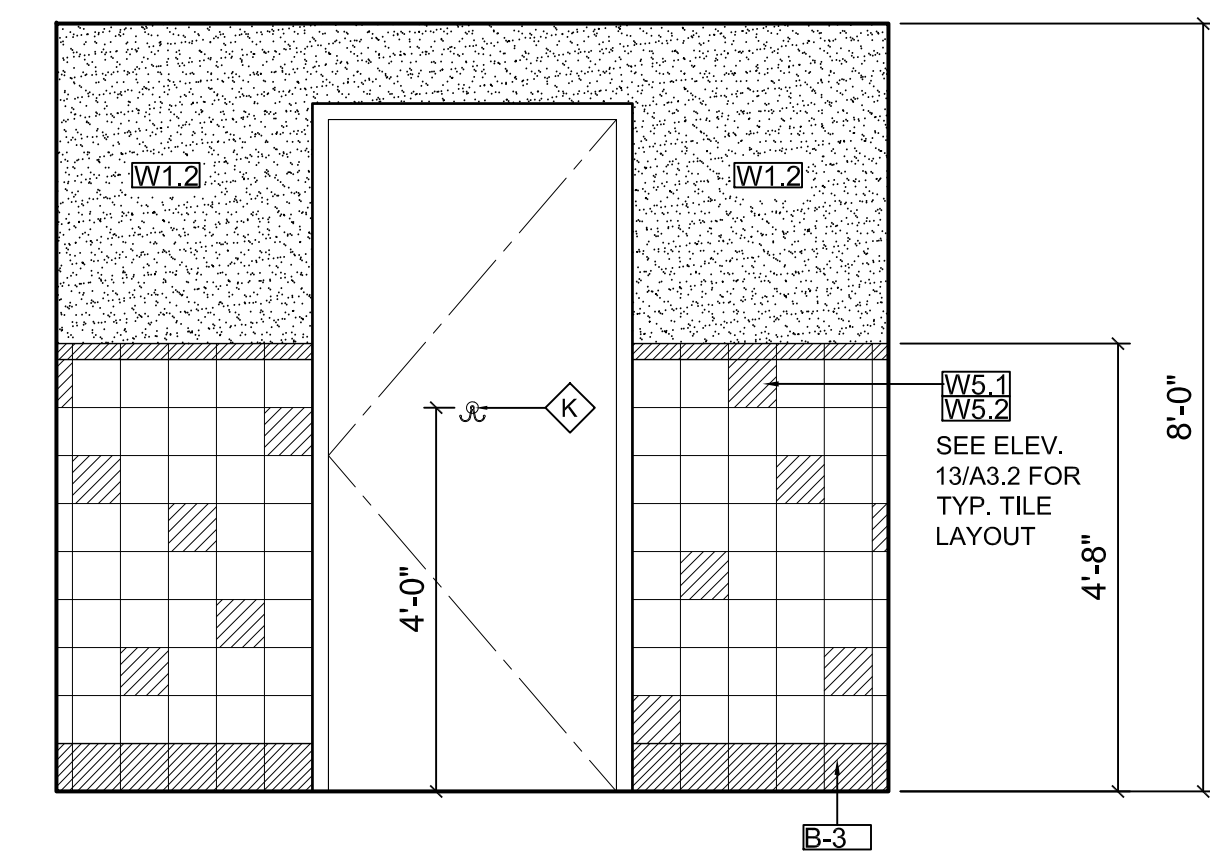
11 TYP RESTROOM TILE LAYOUT
A3.1 1/2" = 1'-0"

VERIFY EXACT LOCATION OF
ACCENT TILES IN FIELD
PRIOR TO INSTALLATION
(THERE IS TO BE 1 RED
TILE PER VERTICAL ROW
OF WHITE)



10 TYP RESTROOM ELEVATION
A3.1 1/2" = 1'-0"

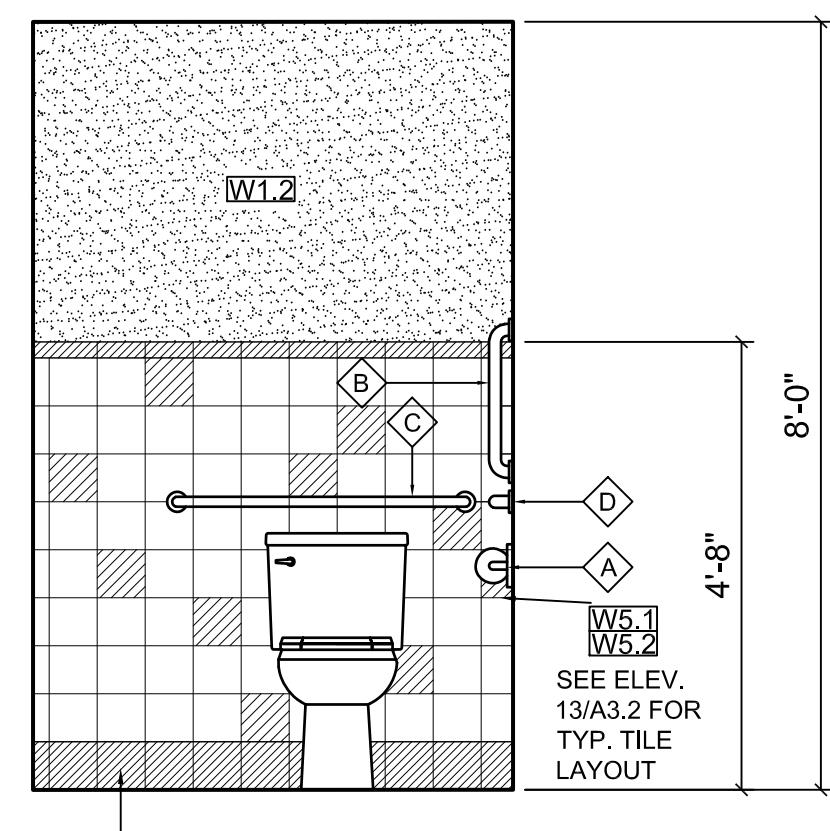
NOTE:
BABY CHANGING STATION
UNIQUE SIZE TO THIS
PLACEMENT LOCATION



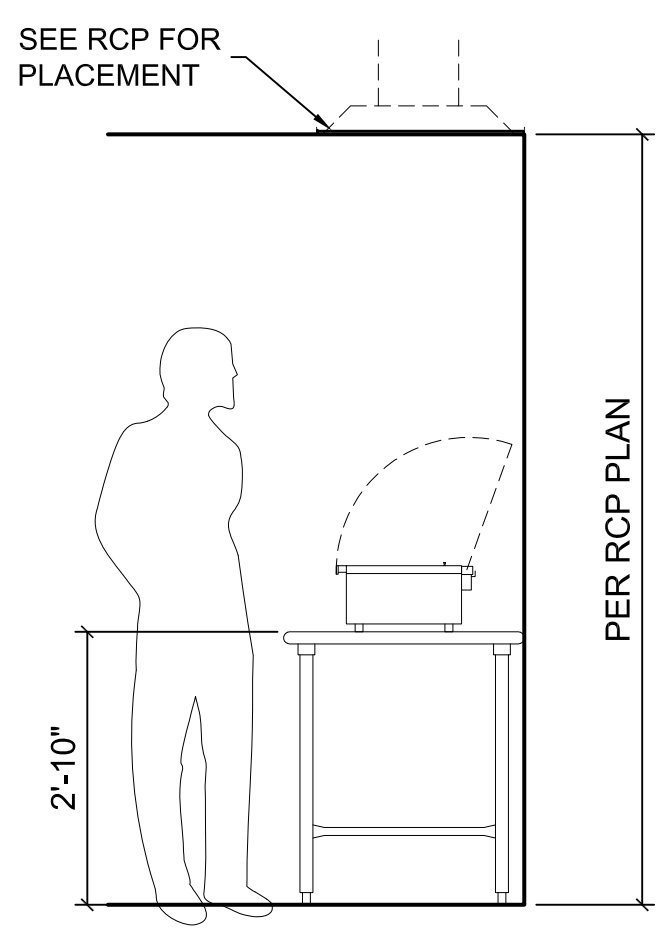
09 TYP RESTROOM ELEVATION
A3.1 1/2" = 1'-0"

TOILET ACCESSORIES SCHEDULE					
MARK	DESCRIPTION	MANUFACTURER	MODEL #	MOUNTED HEIGHT	REMARKS
A	TISSUE PAPER DISPENSER	BY OWNER	BY OWNER	19" AFF TO BOTTOM ROLL	TENANT FURNISHED/ INSTALLED BY G.C.
B	GRAB BAR - 18"	BOBRICK	B-6106 X 18"	39" AFF MIN.	VERTICALLY MOUNTED
C	GRAB BAR - 36"	BOBRICK	B-6106 X 36"	34" AFF TO C.L.	
D	GRAB BAR - 42"	BOBRICK	B-6106 X 42"	34" AFF TO C.L.	
E	NOT USED				
F	HAND DRYER	BY OWNER	BY OWNER	48" AFF TO TOWELS	TENANT FURNISHED/ INSTALLED BY G.C.
G	NOT USED				
H	MIRROR	BOBRICK	B-165-2436 24"W X 36" H	38" AFF TO BOTTOM OF GLAZING	
J	MOP & BROOM HOLDER	BOBRICK	B-233 X 24"	60" AFF TO CENTER	WALL-MOUNTED ABOVE CAN WASH
K	CLOTHES HOOK	BOBRICK	B-233	48" AFF	MOUNT ON BACK OF RESTROOM DOORS
L	ACCESSIBLE DOOR SIGNAGE	SETON	44985 (WOMEN)	60" AFF TO CENTER	WHITE TEXT ON BLACK BACKGROUND
M	ACCESSIBLE DOOR SIGNAGE	SETON	44988 (MEN)	60" AFF TO CENTER	WHITE TEXT ON BLACK BACKGROUND
N	BABY CHANGE STATION	KOALA	KB301 VERTICAL ORIENTATION		TENANT FURNISHED/ INSTALLED BY G.C.
P	EMPLOYEE HAND WASH SIGNAGE	BY OWNER	BY OWNER	SEE DETAIL 03/A0.2	TENANT FURNISHED/ INSTALLED BY G.C.

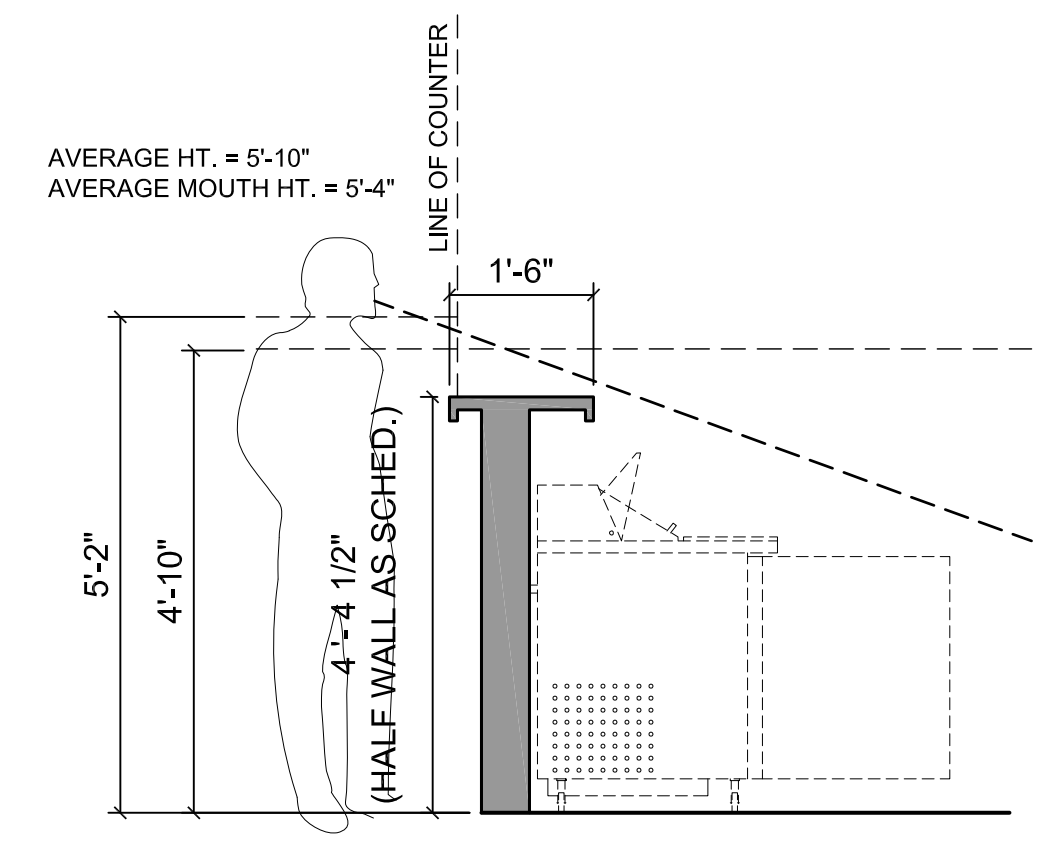
NOTES:
1. ALL ACCESSORIES TO BE PROVIDED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.
2. EQUIVALENT PRODUCTS MAY BE SUBSTITUTED.
3. CONTRACTOR TO PROVIDE TREATED WOOD BLOCKING AND ANCHORS AS REQUIRED FOR PROPER INSTALLATION OF ALL TOILET ACCESSORIES.
4. A SIGN OR POSTER MUST BE PROVIDED AT EACH HAND WASHING SINK AND BE CLEARLY VISIBLE TO FOOD EMPLOYEES.



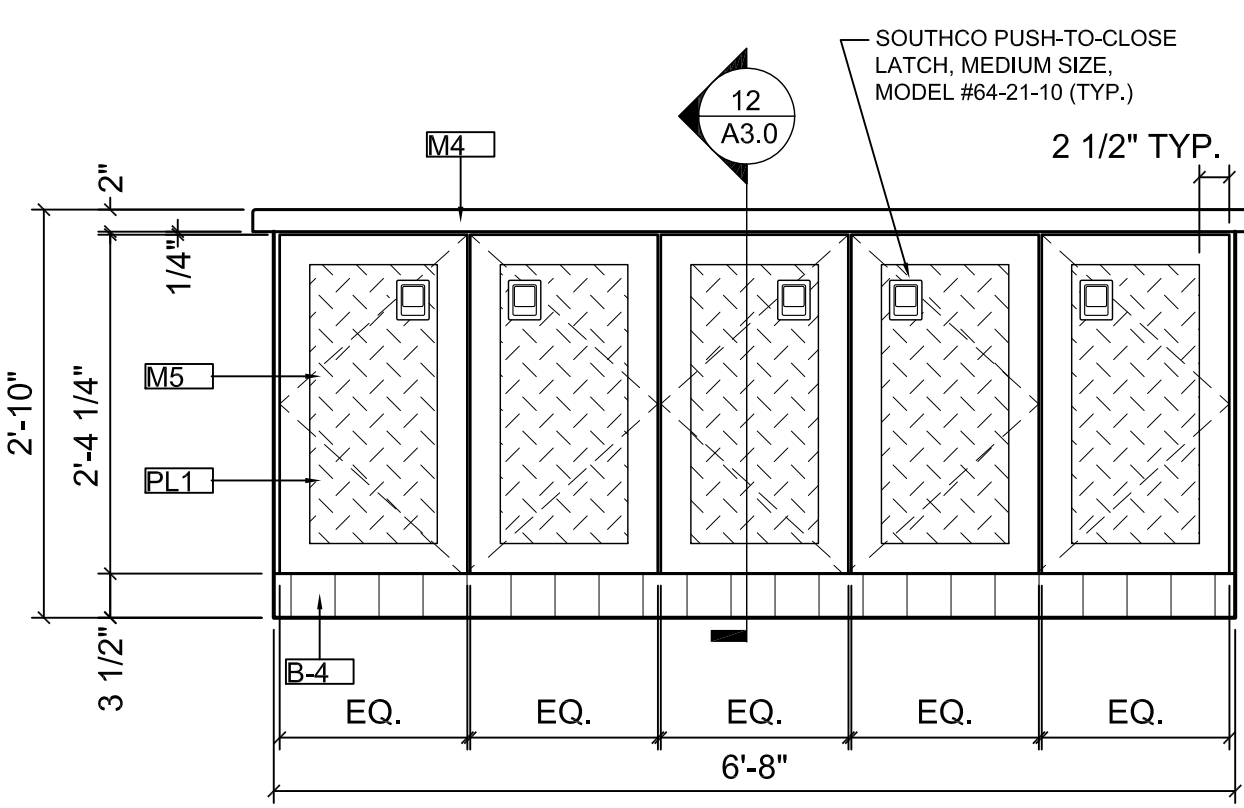
08 TYP RESTROOM ELEVATION
A3.1 1/2" = 1'-0"



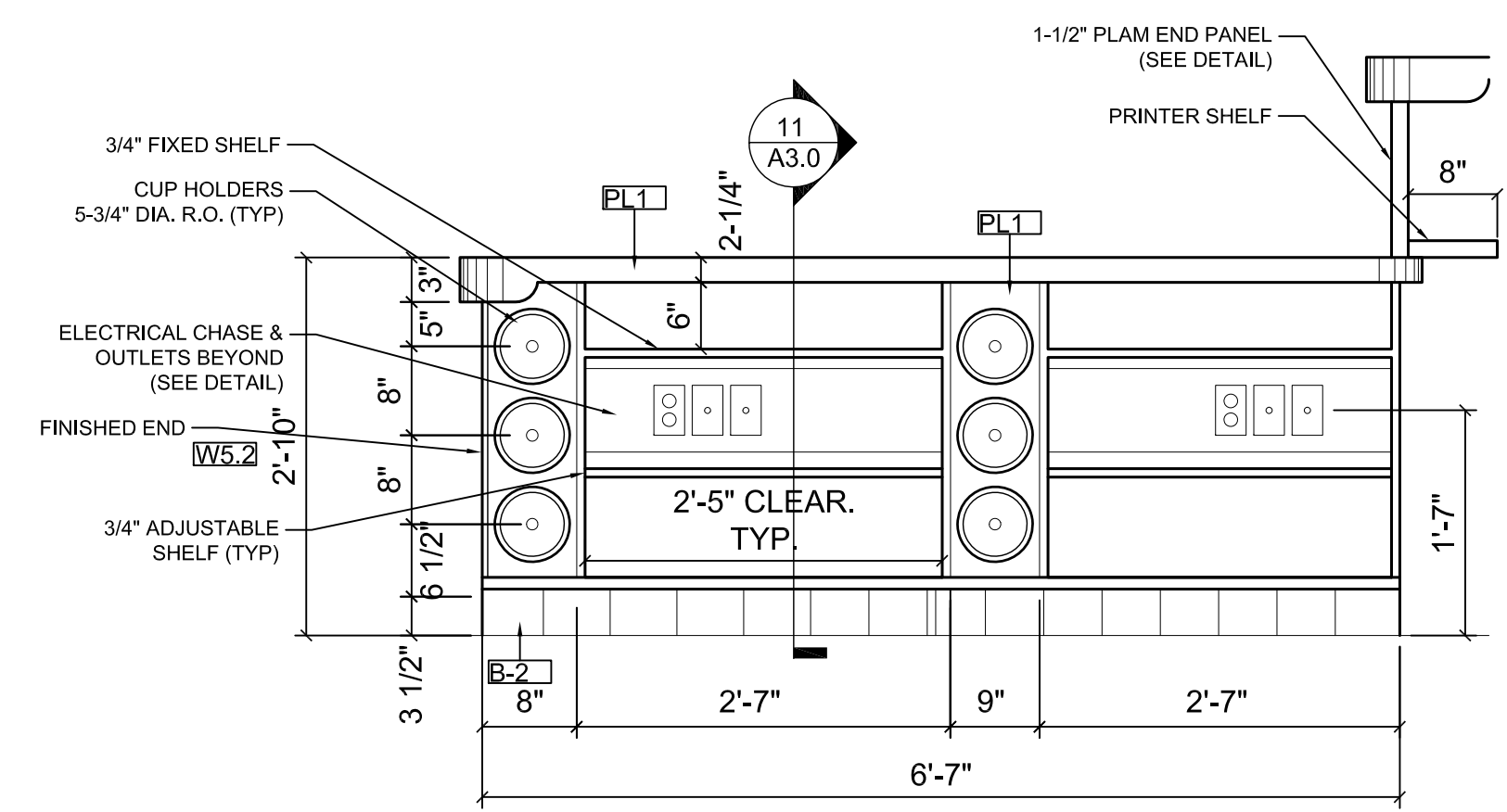
07 MENU @ STEAM LINE SECTION
A3.1 1/2" = 1'-0"



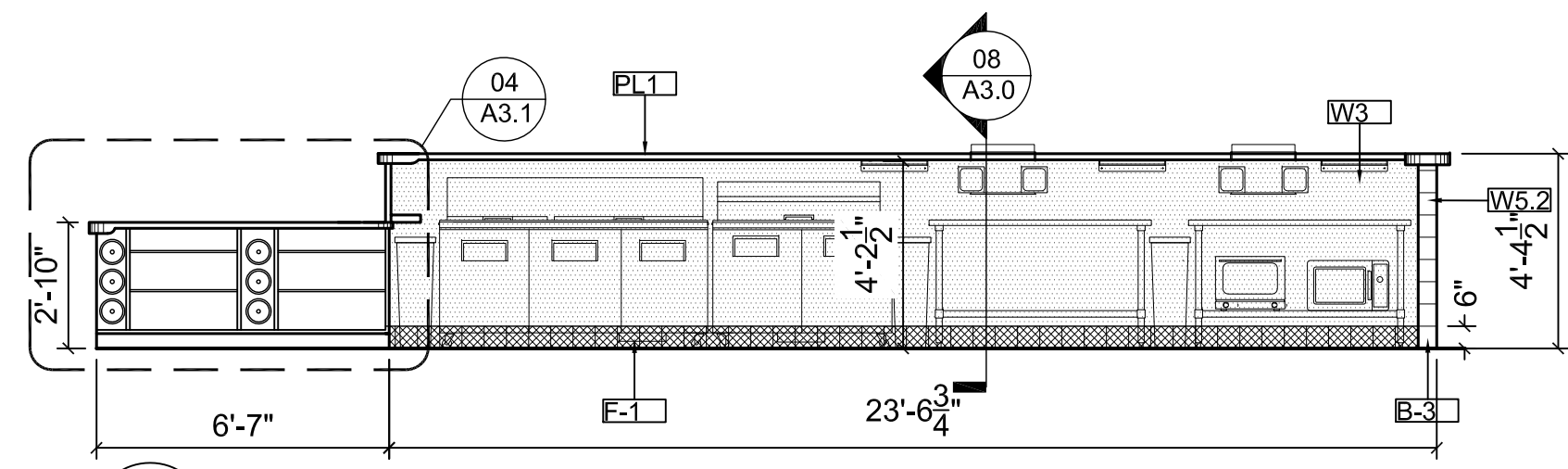
06 FOOD SCREENING DETAIL
A3.1 1/2" = 1'-0"



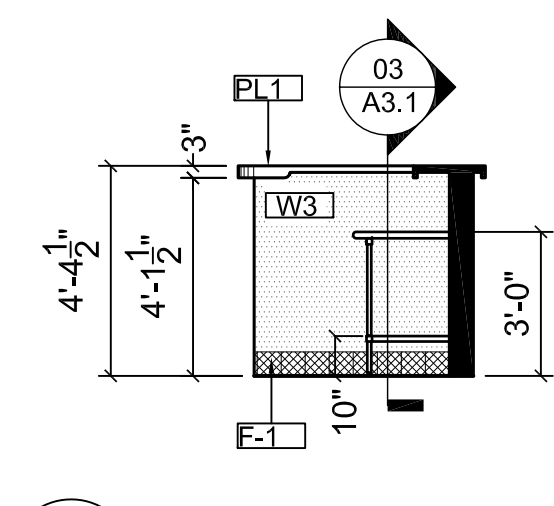
05 ENLARGED BEVERAGE COUNTER ELEVATION
A3.1 3/4" = 1'-0"



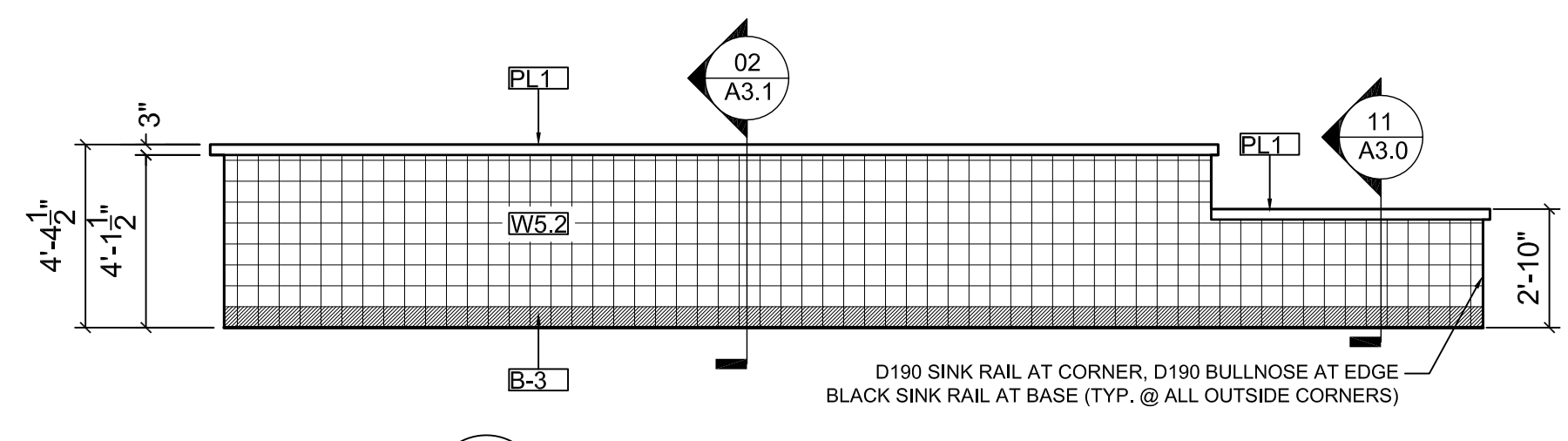
04 ENLARGED POS ELEVATION
A3.1 3/4" = 1'-0"



03 INTERIOR ELEVATION
A3.1 1/4" = 1'-0"



02 INTERIOR ELEVATION
A3.1 1/4" = 1'-0"



01 INTERIOR ELEVATION
A3.1 1/4" = 1'-0"

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LIVONIA, MI 48150**

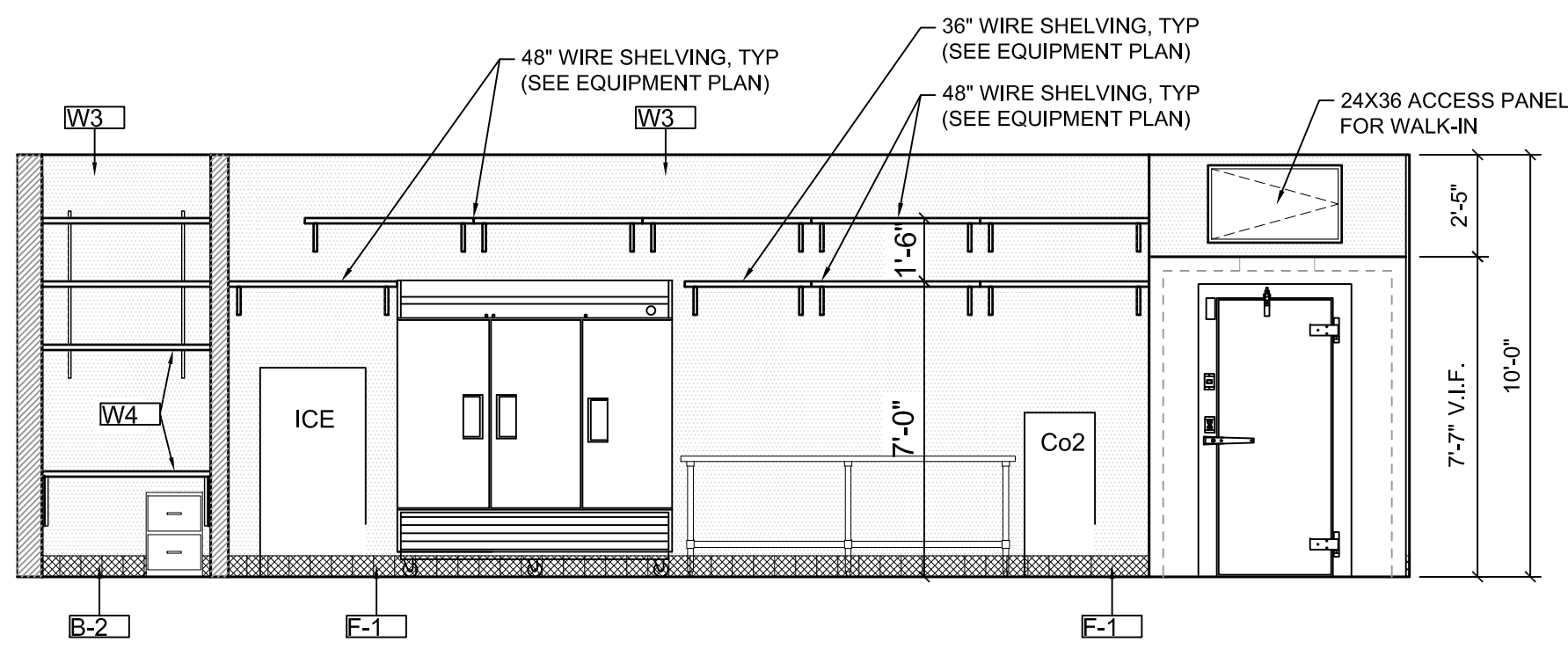
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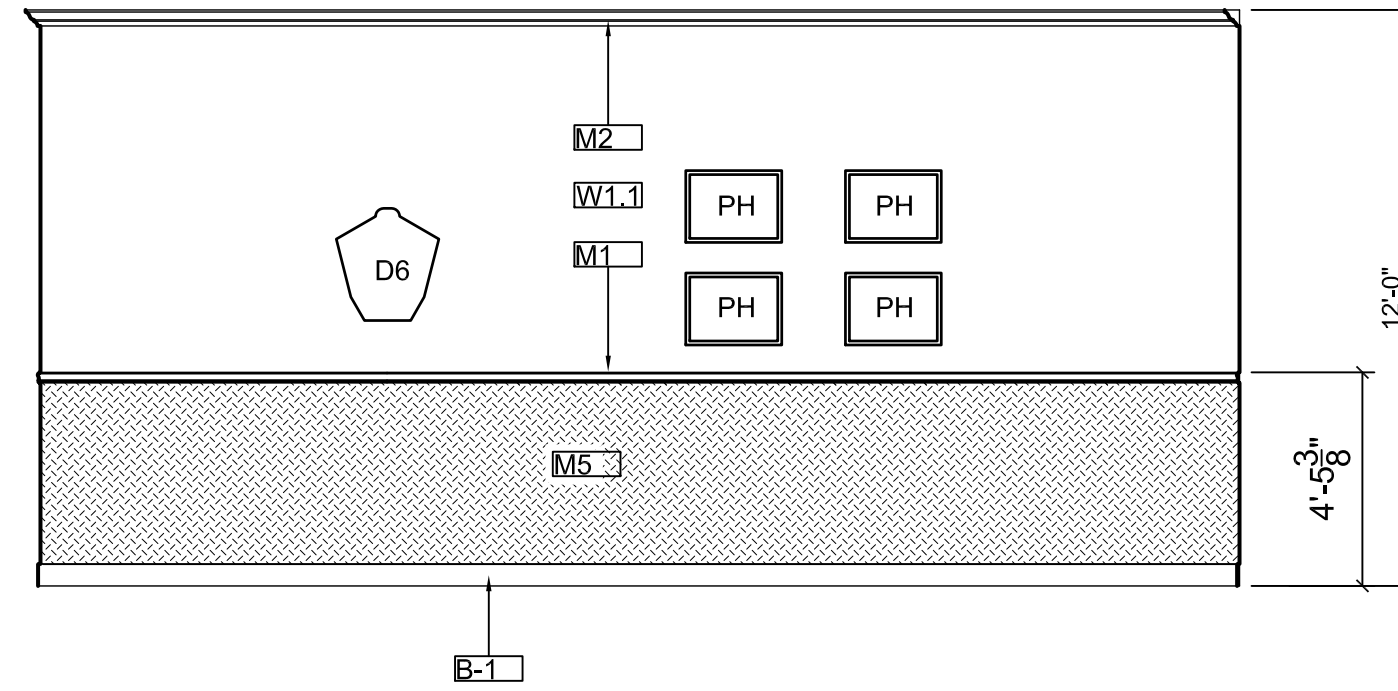
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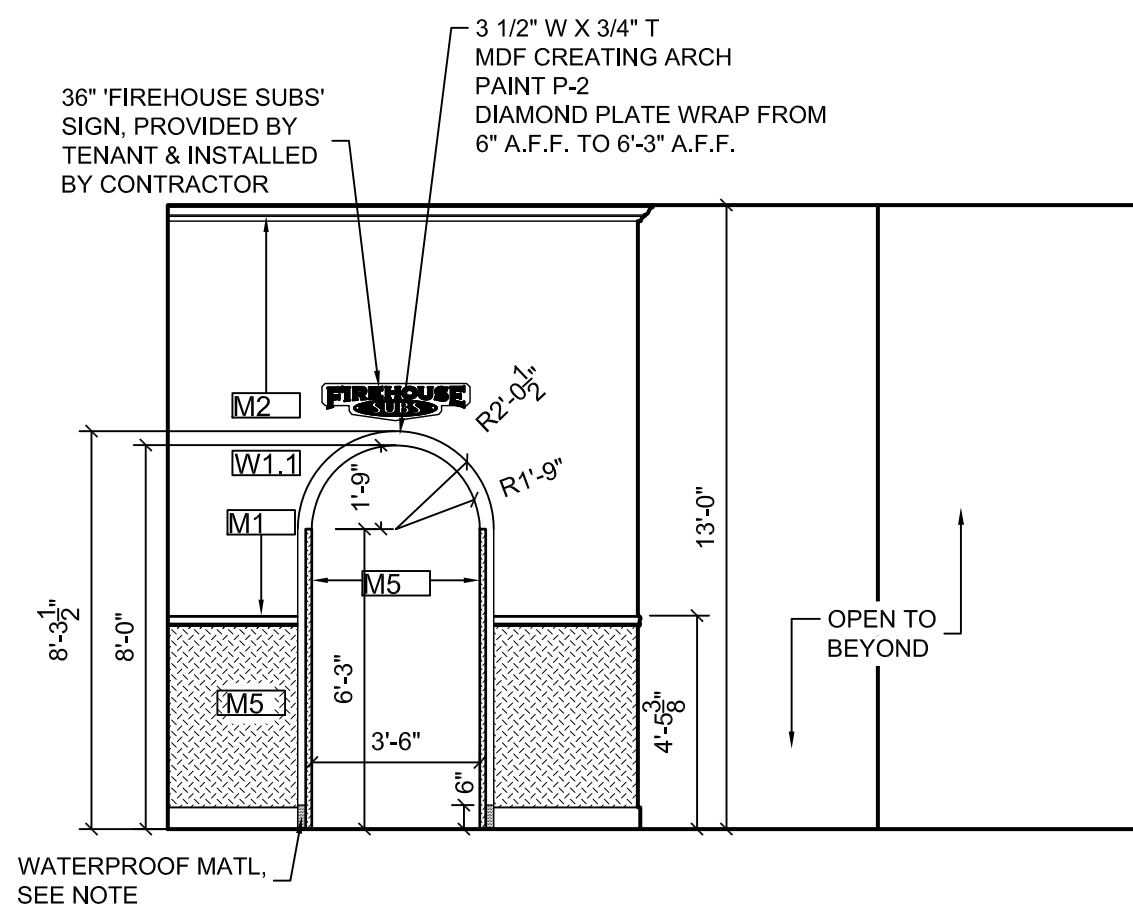
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A3.1



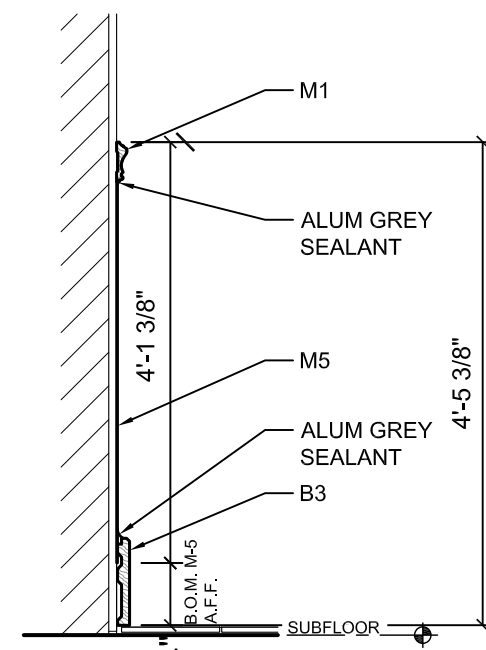
01 INTERIOR ELEVATION
A3.2 1/4" = 1'-0"



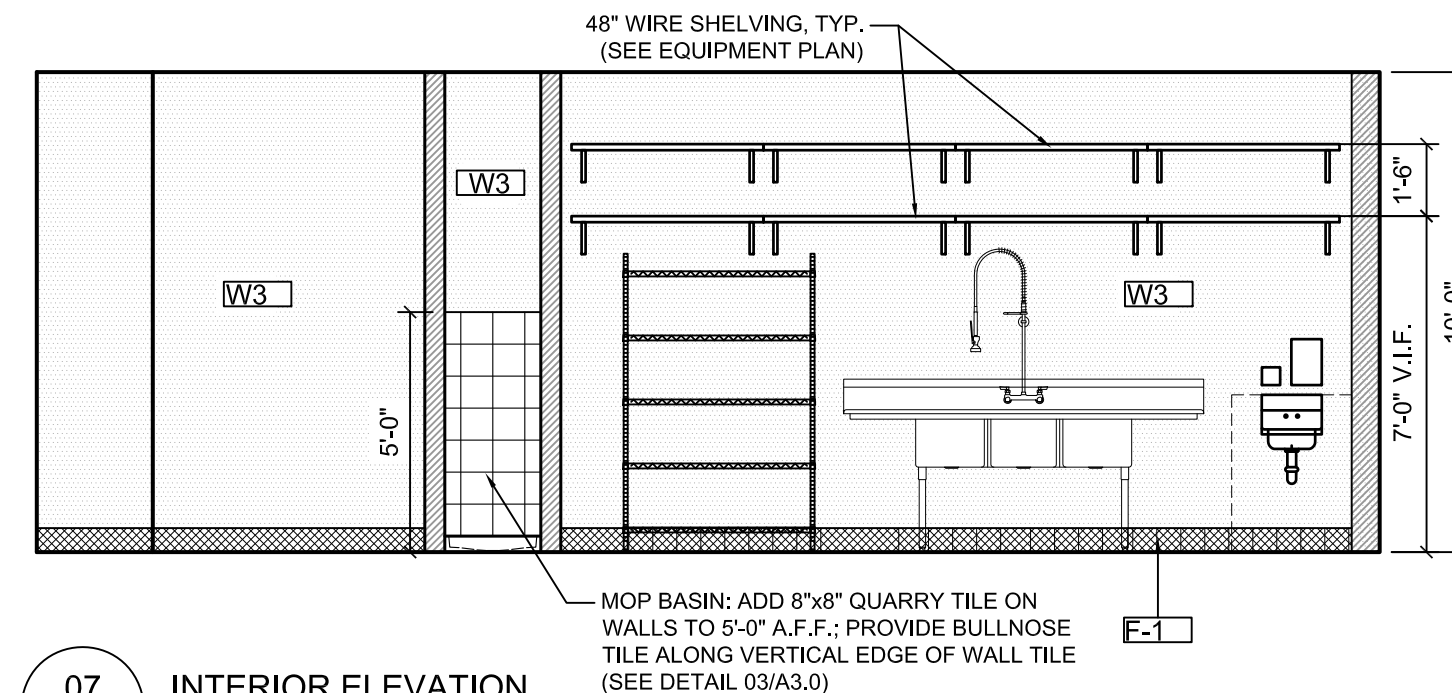
05 INTERIOR ELEVATION
A3.2 1/4" = 1'-0"



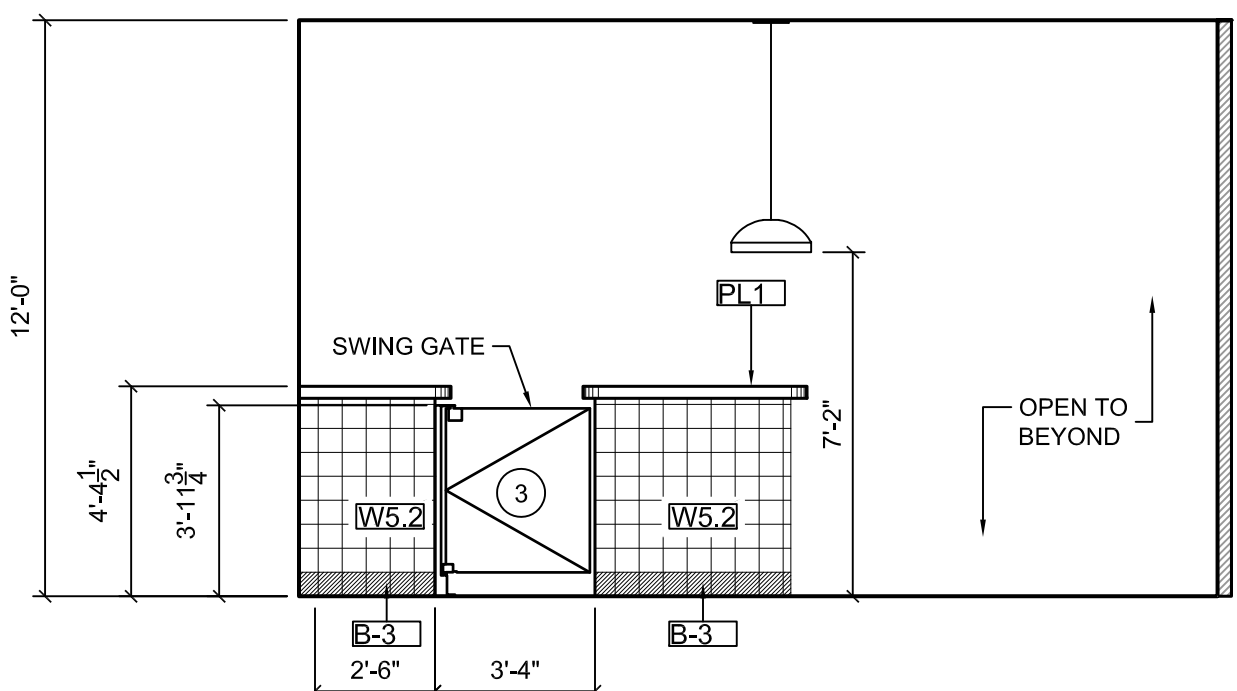
02 INTERIOR ELEVATION
A3.2 1/4" = 1'-0"



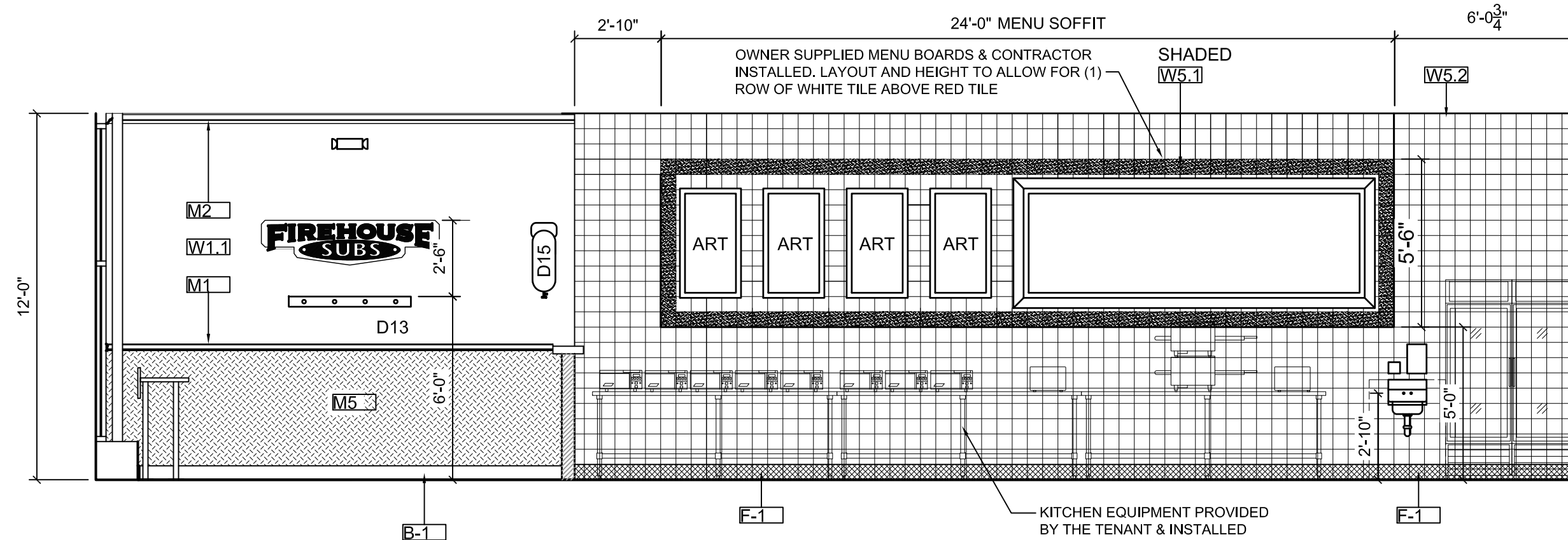
06 TYP WALL PROFILE
A3.2 1" = 1'-0"



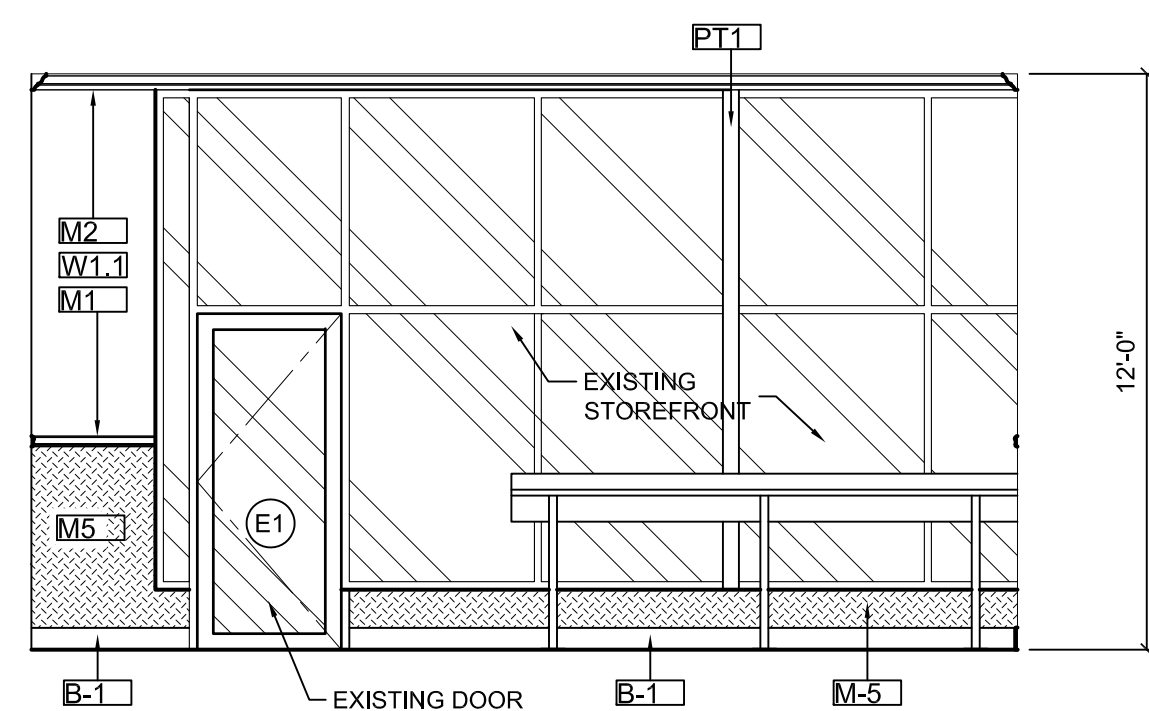
07 INTERIOR ELEVATION
A3.2 1/4" = 1'-0"



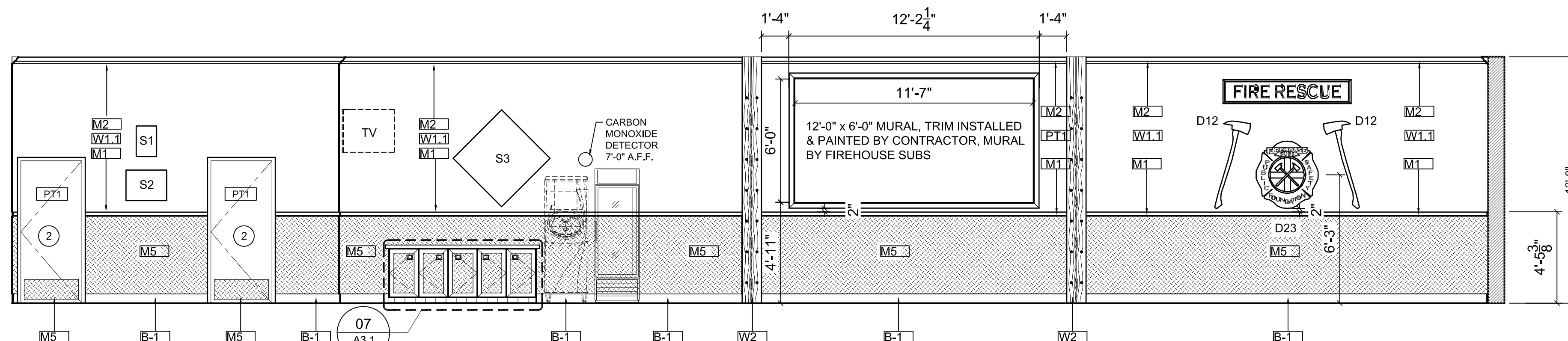
03 INTERIOR ELEVATION
A3.2 1/4" = 1'-0"



08 INTERIOR ELEVATION
A3.2 1/4" = 1'-0"



04 INTERIOR ELEVATION
A3.2 1/4" = 1'-0"



09 INTERIOR ELEVATION
A3.2 1/4" = 1'-0"

CARBON MONOXIDE DETECTOR:
MANUFACTURER: FIRST ALERT
MODEL NO.: CO910 DESIGNER SERIES
POWER: 3V LITHIUM POWER CELL BATTERY WITH
10 YEAR ALARM AND END OF LIFE SIGNAL
SEE FIRSTALERTSTORE.COM/FUNDRAISING/FIREHOUSE-SUBS.HTM
MOUNT CO2 @ 7'-0" A.F.F. COORDINATE LOCATION WITH OWNER

GENERAL INTERIOR NOTES

1. ALL WALL LENGTHS ARE TO BE OBTAINED FROM THE DIMENSIONED FLOOR PLAN AND NOT FROM THESE ELEVATIONS. DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.

2. CONTRACTOR SHALL COORDINATE LAYOUT OF ALL GRAPHICS, SIGMA AND DECOR ITEMS TO BE USED WITH FRANCHISEE & AREA REPRESENTATIVE.

GENERAL INTERIOR NOTES

1. ALL WORK SHALL BE DONE ACCORDING TO APPLICABLE BUILDING CODES AND ORDINANCES AS WELL AS THE BEST PRACTICE AND STANDARDS OF THE TRADE. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING PROPER PERMITS AND PAYING ALL APPLICABLE FEES.

2. THE CONTRACT DOCUMENTS DO NOT ATTEMPT TO DIVIDE AND ASSIGN WORK TO THE SUBCONTRACTORS. VERIFY WITH THE CONTRACTOR ASSIGNMENTS OF WORK; ESPECIALLY THOSE ITEMS WHICH COULD BE ASSIGNED TO VARIOUS SUBCONTRACTORS

3. EACH SUBCONTRACTOR IS SOLELY RESPONSIBLE TO BE INFORMED, TO PROVIDE FOR AND MAINTAIN SAFETY OF OPERATING EQUIPMENT AND HANDLING OF MATERIALS. THE CONTRACTOR SHALL COMPLY WITH SAFETY STANDARDS OF OSHA, MIOSHA AND OTHER STANDARD ENFORCEABLE BY LAW.

WATERPROOF MATERIAL NOTE:
PROVIDE WATERPROOF MATERIAL - EACH SIDE FOR MINIMUM OF 6" ABOVE FINISH FLOOR. MATERIAL SHALL BE A SMOOTH AND PAINTABLE PRODUCT. SUGGESTED - FYPON, SINTRA OR EQUAL.

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CEILING/ LIGHT FIXTURE SCHEDULE			
SYMBOL	ITEM DESCRIPTION		
	2 X 4 LAY-IN LED LIGHT		GYPSUM BOARD BULKHEAD/ CEILING
	2 X 2 LAY-IN LED LIGHT		DIFFUSER - SUPPLY - SEE MECHANICAL PLANS
	24 HOUR CIRCUIT (NIGHT LIGHT)		DIFFUSER - RETURN - SEE MECHANICAL PLANS
	PENDANT HUNG LIGHT FIXTURE: CENTER OF COUNTER OR AS SHOWN, MOUNT WITH BOTTOM OF FIXTURE AT 7'-2" A.F.F. COORD. W/ JACKSON LIGHTING FOR REQUIRED CORD LENGTH.		EXHAUST FAN DUCTED TO EXTERIOR -SEE MECHANICAL PLANS
	4' OR 8' TRACK LIGHT	CARBON MONOXIDE NOTE: FIRST ALERT CARBON MONOXIDE DETECTOR DESIGNER SERIES C0910 OR APPROVED EQUAL (10 YEAR ALARM LIFE, END OF LIFE SIGNAL, NO BATTERY CHANGES FOR LIFE OF UNIT (3V LITHIUM POWER CELL)). FOR ORDERING FROM FIRST ALERT VISIT - HTTP://WWW.FIRSTALERTSTORE.COM/FUNDRAISING/FIREHOUSE-SUBS.HTM SUPPLIED AND INSTALLED BY G.C. MUST BE CENTRALLY LOCATED AND CEILING MOUNTED WITHIN THE SPACE.	
	RECESSED CAN LIGHT WITH TRIM RING AND CLEAR ALZAK REFLECTOR		
	THERMOSTAT		
	WALL MOUNTED LIGHT OR OTHER SWITCH. 3 = 3 WAY SWITCH 4 = 4 WAY SWITCH OC = MOTION ACTIVATED OCCUPANCY SENSOR		
	WALL MOUNTED EMERGENCY EXIT LIGHT WITH BATTERY BACKUP.		
	EMERGENCY EXIT SIGHT WITH BATTERY BACK UP AND EMERGENCY LIGHTS.		
	EXTERIOR EMERGENCY EXIT LIGHT, FEED FROM EXIT SIGN INSIDE SPACE.		
	NEW CEILING GRID/ TILE TO BE INSTALLED REFER TO FINISH SCHEDULE		

GENERAL NOTES

- CIRCUIT DESIGNATIONS AND SWITCHING ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- ARCHITECTURAL CEILING PLAN TAKES PRECEDENCE OVER ELECTRICAL PLANS WITH REGARD TO LIGHT FIXTURE QUANTITY AND LOCATIONS. PLEASE CONTACT ARCHITECT WITH ANY QUESTIONS REGARDING LIGHT PLACEMENT OR QUANTITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING EXISTING SPRINKLER HEADS AS REQUIRED TO ACCOMMODATE NEW LAYOUT. SPRINKLER CONTRACTOR SHALL PROVIDE ALL REQUIRED DRAWINGS FOR LOCAL JURISDICTIONAL REVIEW AND APPROVAL.
- ENTRY AREA NOTE: ALL DUCTWORK IN THE ENTRY AREA SHALL BE EXPOSED (MIN 26 GAGE) SPIRAL WOUND GALVANIZED DUCTWORK - PRIMED & PAINTED RED. BOT OF DUCTWORK VARIES PER LOCATION.

LAMP NOTES

- ALL LAMPS IN THE FOOD PREP AREAS SHALL BE ALL LAMPS IN THE FOOD PREP AREAS SHALL BE SHIELDED AND/OR SHATTERPROOF. VERIFY EXACT REQUIREMENTS WITH LOCAL HEALTH DEPARTMENT.
- HALCO LIGHTING TECHNOLOGIES - PRO-LED HALCO LIGHTING TECHNOLOGIES - PRO-LED SOLID STATE LIGHTING - 8 WATT MEDIUM BASE OR EQUAL. YOU MAY CONTACT JACKSON LIGHTING FOR PRICING AND ORDERING @ 866-526-8956.
- 60 WATT - G-40 LAMPS MAY BE PURCHASED 60 WATT - G-40 LAMPS MAY BE PURCHASED WITH A SHATTERPROOF COATING APPLIED TO BULBS BY JACKSON LIGHTING @ 866-526-8956 OR SHALL PURCHASE 60 WATT G-40 LAMPS AND SEND BULBS TO HAVE THE COATING APPLIED BY SHAT-R-SHIELD (WWW.SHATTERSHIELD.COM) - OR EQUAL.

KEY NOTES

- ACOUSTICAL TILE CEILING AREA DENOTED WITH HATCH PATTERN IS TO BE ACT-2. REMAINDER OF ACOUSTICAL TILE CEILING TO BE ACT-1
- 2X2 LAY-IN CEILING
- 2X4 LAY-IN CEILING
- GYPSUM CEILING
- NO CEILING IN THIS AREA. PAINT STRUCTURE BLACK P-5. EXPOSED DUCTWORK TO BE PAINTED SAFETY RED P-1.
- EXHAUST FAN WIRED TO VARIABLE SPEED SWITCH IN LOCATION AS SHOWN. SEE MECHANICAL DRAWINGS FOR FAN SIZE AND CIRCUIT DESIGNATIONS.
- 2X WOOD TRIM ON UNDERSIDE OF BRICK OPENING STAINED ST-1. PROVIDE BOLTS TO MATCH COLUMNS.
- 6" METAL STUD AND * GYPSUM BOARD BULKHEAD, 58" GYPSUM BOARD BULKHEAD, BOTTOM AT 7'-6" AFF. SEE INTERIOR ELEVATIONS FOR METAL FRAME WINDOWS AND DECOR.
- THIS LIGHT TO BE CENTERED ABOVE POS COUNTER.
- WALL OR CEILING HUNG TV. COORDINATE BLOCKING REQUIREMENTS.
- SUSPENDED TRACK LIGHT FIXTURE, MOUNT AT 10'-0" AFF TO TRACK (IF OPEN EXPOSED CEILING).
- METAL STUD AND GYPSUM BOARD BULKHEAD ABOVE COOLER WITH 24"X24" ACCESS PANEL.



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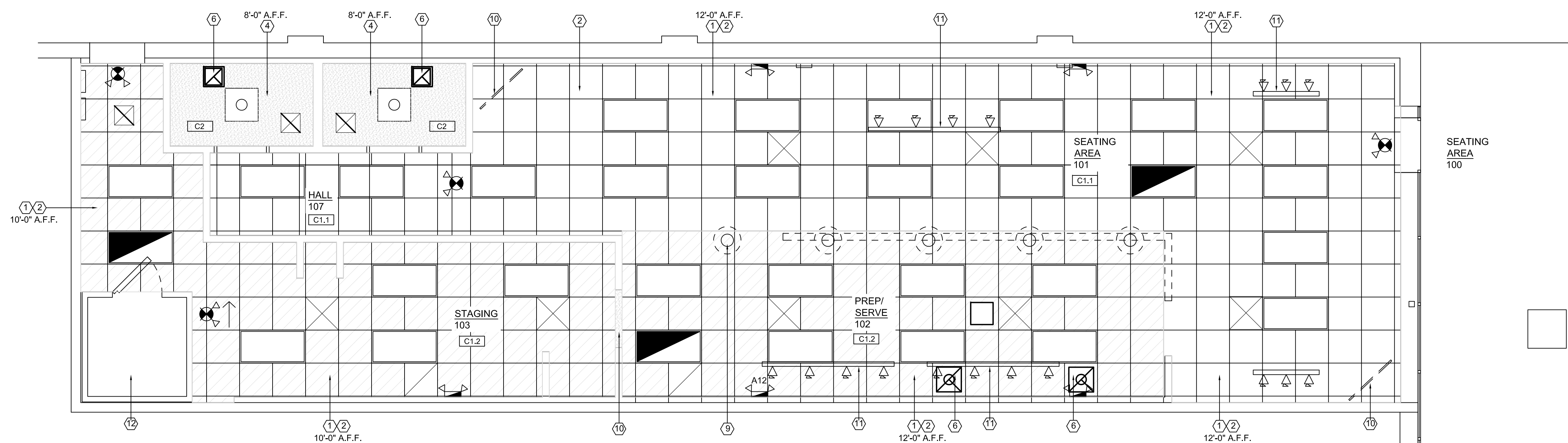
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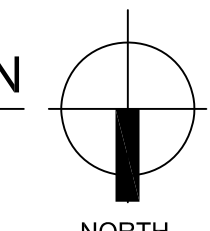
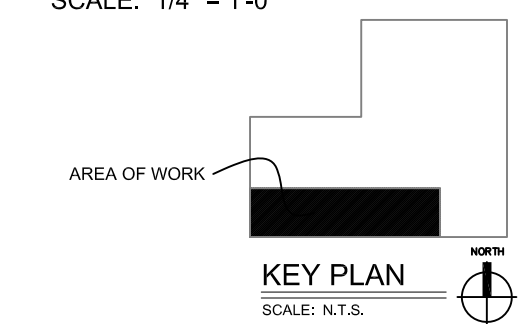
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REFLECTED CEILING PLAN

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



PLUMBING SPECIFICATIONS:

GENERAL

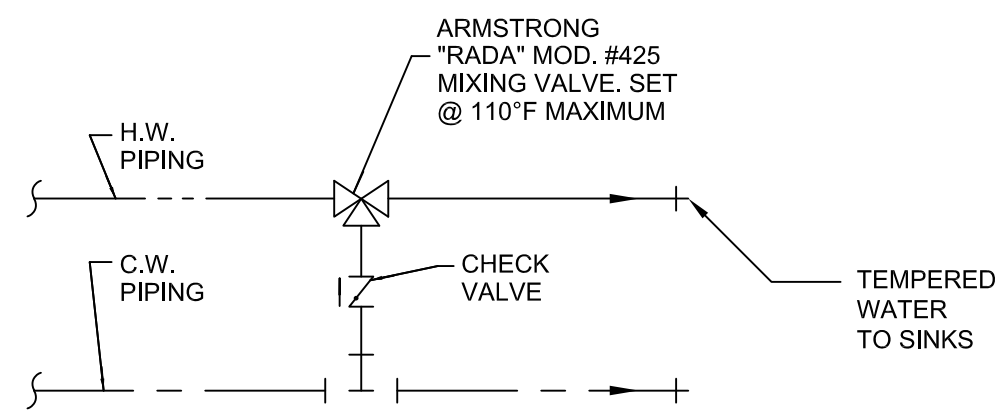
1. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
2. PLUMBING INSTALLATION SHALL COMPLY WITH ALL LOCAL CODES.
3. INSTALL NEW PLUMBING LINES TO CONNECT NEW PLUMBING EQUIPMENT AND FIXTURES INDICATED ON PLANS. NEW FIXTURES SHALL BE INSTALLED PER ADA REQUIREMENTS, LOCAL CODES AND MANUFACTURERS REQUIREMENTS.
4. INCLUDE ALL NECESSARY ANCHORS, BRACES, MISCELLANEOUS STEEL, WALL BRACKETS AND RISER CLAMPS REQUIRED FOR A PROPER INSTALLATION.
5. VENT LINES THRU ROOF SHALL BE 3" MINIMUM AND SHALL TERMINATE 24" ABOVE ROOF.
6. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL SHOCK ABSORBERS OR AIR CHAMBERS AT EACH HOT AND COLD WATER FIXTURE CONNECTION. CHAMBERS SHALL BE 18" HIGH AND OF THE SAME DIAMETER AS THE FIXTURE CONNECTION BUT NOT LESS THAN 1/2".
7. SUPPORT ALL RISERS AT BASE.
8. MAKE FINISHED PIPING CLEAN, FREE FROM FOREIGN MATTER AND WITH NO BURRS, WELDING ICICLES OR OTHER OBSTRUCTIONS.
9. INSTALL ALL PIPING TO PERMIT EASY DRAINING. ADJUST HANGERS AND SUPPORTS TO ELIMINATE SAG POCKETS. PROVIDE HOSE END DRAIN VALVES AT ALL LOW POINTS TO PERMIT DRAINING OF THE ENTIRE DOMESTIC WATER SYSTEM.
10. INSTALL PIPING TO PERMIT EXPANSION AND CONTRACTION WITHOUT UNDUE STRESS, PARTICULARLY AT FLASHING AND EQUIPMENT.
11. SUPPORT PIPING FROM ROOF BEAMS, TRUSSES OR JOIST. DO NOT HANG OR SUPPORT PIPING FROM ROOF DECK.
12. NEW PIPING SHALL RUN CONCEALED IN FINISHED AREAS.
13. WHERE PIPES PASS THRU FINISHED WALLS OR CEILING, INSTALL A STEEL OR BRASS ESCUTCHEON PLATE WITH SET SCREW.
14. PERMANENTLY LABEL AND TAG ALL VALVES INDICATING THE PART OF THE SYSTEM CONTROLLED.
15. WARRANTY ALL WORKMANSHIP, MATERIALS AND PERFORMANCE FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.
16. INSTALL ALL PIPING PARALLEL OR AT RIGHT ANGLES WITH BEAMS, WALLS, OR OTHER BUILDING LINES. INSTALL ALL EXPOSED PIPING AS CLOSE AS PRACTICAL TO WALLS, COLUMNS, OR OVER HEAD CONSTRUCTION TO PROVIDE MAXIMUM HEAD ROOM AND MINIMUM INTERFERENCE WITH USABLE BUILDING SPACE.

WATER

1. NEW DOMESTIC WATER LINES SHALL BE TYPE "L" HARD COPPER WITH SOLDERED COPPER JOINTS AND FITTINGS.
2. SHOCK ABSORBERS AND SHUT-OFF VALVES ARE TO BE PROVIDED AT EACH FIXTURE OR GROUP OF FIXTURES.
3. PROVIDE 1/2" THICK, HEAVY DUTY FIBERGLAS PIPE INSULATION WITH VAPOR BARRIER JACKET ON NEW WATER LINES. COLD WATER LINES SHALL HAVE 1/2" THICK INSULATION. HOT WATER AND HOT WATER RECIRCULATION LINES SHALL HAVE 3/4" THICK INSULATION.
4. NEW DOMESTIC WATER LINES SHALL BE THOROUGHLY TREATED AND STERILIZED WITH A LIQUID CHLORINE GAS, WATER SOLUTION IN AMOUNTS OF 250PPM CHLORINE CALCULATED ON THE VOLUME OF WATER IN THE NEW PIPING SYSTEM OR AS DIRECTED BY THE LOCAL HEALTH DEPARTMENT.
5. AFTER STERILIZING, FLUSH ALL LINES THOROUGHLY.

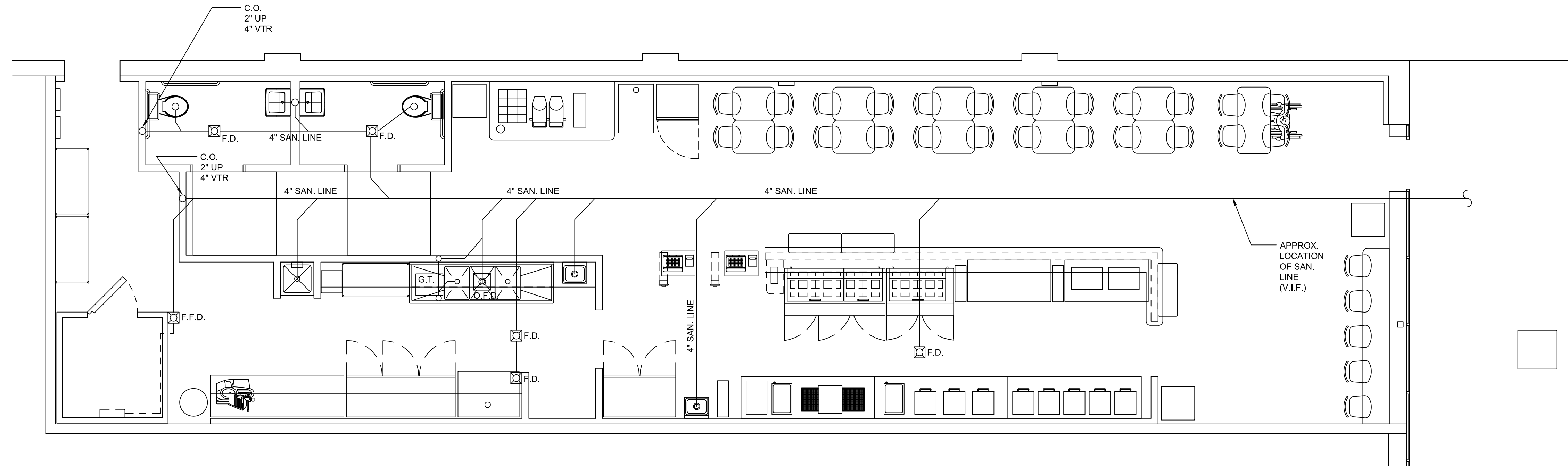
SANITARY & VENT

1. PRIOR TO INSTALLATION OF NEW SANITARY LINES, CHECK AND CONFIRM INVERT ELEVATIONS REQUIRED FOR SEWER CONNECTIONS AND ENSURE THAT THESE CAN BE PROPERLY CONNECTED WITH SLOPE FOR DRAINAGE.
2. NEW SANITARY AND VENT PIPING SHALL BE PVC SCHEDULE 40 ASTM 1488. SANITARY LINES BELOW FLOOR SHALL BE 3" MINIMUM.
3. SANITARY AND WASTE LINES 2 1/2" AND SMALLER SHALL PITCH NOT LESS THAN 1/4" TO THE FOOT. LARGER PIPE SHALL PITCH NOT LESS THAN 1/8" TO THE FOOT.
4. CONTRACTOR SHALL PROVIDE A CLEAN OUT FOR THE SANITARY LINE EVERY 90 FT AND EVERY CHANGE IN DIRECTION.



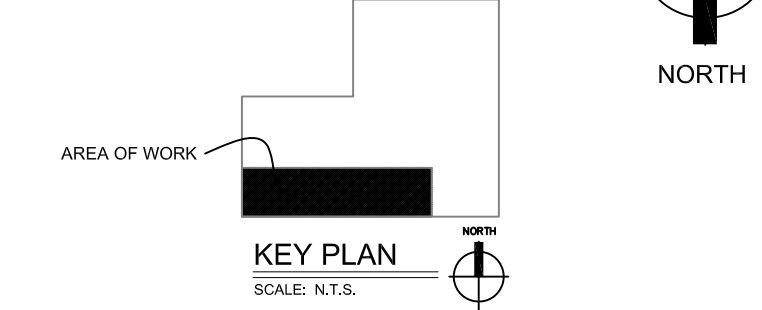
TEMPERING VALVE DETAIL FOR SHOWERS HANDICAP FIXTURES AND HAND SINKS

NO SCALE



WASTE PIPING PLAN

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



GREAT LAKES BAY CONSTRUCTION
 DESIGN-BUILD GENERAL CONTRACTOR

2525 N. EASTMAN RD. MIDLAND, MI 48642
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PROJECT NAME: **FIREHOUSE SUBS**
 PROJECT LOCATION: **11492 MIDDLEBELT RD. LIVONIA, MI 48150**

DRAWING INDEX	TITLE	DATE
NO.	PLAN REVIEW - PERMITS CONSTRUCTION SET	07.03.22 07.14.2022

SEAL

DATE
DRAWN BM
PROJECT MANAGER
PROJECT NUMBER 21195
PAGE
SHEET P1.0

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PROJECT NAME
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PROJECT LOCATION
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LIVONIA, MI 48150**

DRAWING INDEX	NO.	TITLE	DATE
		PLAN REVIEW - PERMITS	01/23/22
		CONSTRUCTION SET	01/14/22

DATE

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BM

PROJECT MANAGER

PROJECT NUMBER
21195

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WATER LINE LEGEND	
	EXISTING COLD WATER
	COLD WATER
	HOT WATER

SANITARY SEWER NOTES

- ALL SANITARY SEWER ABOVE THE CEILING SHALL BE CAST IRON OR PVC PIPING PERMITTED BELOW THE FLOOR AND IN WALLS.
- SANITARY SEWER PIPING SHALL BE SLOPED 1/4" PER FOOT. ALL FITTINGS AND CONNECTIONS ARE TO BE IN ACCORDANCE WITH SECTION 706 AND TABLE 706.3 (2012 MPC)
- P.C. MUST LOCATE AND CONFIRM THE EXISTING SANITARY SEWER AND WATER DISTRIBUTION SYSTEM ON-SITE USING A VIDEO CAMERA. EXISTING COMPONENTS IN THE TENANT SPACE NOT REUSED IN THE PLUMBING SYSTEM SHALL BE PROPERLY ABANDONED OR REMOVED FROM PREMISES.
- EACH PLUMBING FIXTURE SHALL BE SEPARATELY TRAPPED BY A WATER-SEAL TRAP, EXCEPT AS OTHERWISE PERMITTED BY CODE.

WATER SUPPLY NOTES

- PROVIDE AIR CHAMBERS AT SUPPLIES TO EACH FIXTURE
- PROVIDE SHUT-OFF VALVE AT EACH SUPPLY TO EACH FIXTURE
- ALL PLUMBING FIXTURES MUST CONFORM TO BUT NOT LIMITED TO SECTION 608 - "PROTECTION OF POTABLE WATER SUPPLY" OF THE 2012 MICHIGAN PLUMBING CODE AND THE STANDARDS OF THE ASSE - AMERICAN SOCIETY OF SANITARY ENGINEERS

PLUMBING KEY NOTES

- CONNECT NEW 1-1/4" CW TO EXISTING DOMESTIC WATER ENTRY IN FIRE RISER ROOM ON SIDE OF BUILDING APPROX. 150' FROM SPACE. PROVIDE REMOTE READING SUB-METER PER LANDLORD/ WATER DEPARTMENT REQUIREMENTS. VERIFY EXACT LOCATION AND SIZE IN FIELD PRIOR TO START OF WORK.
- 1/2" CW DOWN IN WALL TO CONNECTION AT AIR COOLED ICE MACHINE. PROVIDE WATTS SERIES 9D IN-LINE BACKFLOW PREVENTER AND SHUT-OFF VALVE AT CONNECTION.
- 1/2" CW DOWN IN WALL TO CONNECTION AT BAG-N-BOX. PROVIDE WATTS SD3 IN-LINE BACKFLOW PREVENTER AND SHUT-OFF VALVE AT CONNECTION.
- 1/2" CW DOWN IN WALL CONNECTION AT TEA/COFFEE MACHINES. PROVIDE WATTS SD3 IN-LINE BACKFLOW PREVENTER AND SHUT-OFF VALVE AT CONNECTION.
- 1/2" DOWN TO HOSE BIBB HB-1 AT 44" A.F.F.
- 2" NAT. GAS PIE TO CONNECTION AT TENANT GAS METER ON SIDE OF BUILDING, APPROX 150' FROM SPACE.
- 1-1/4" GAS DOWN TO CONNECTION AT WATER HEATER. PROVIDE SHUT-OFF VALVE, UNION AND MINIMUM 6" DEEP DIRT LEG AT CONNECTION.
- 1" GAS CONNECTION TO NEW ROOFTOP HVAC UNIT. PROVIDE SHUT-OFF VALVE, UNION AND MINIMUM 6" DEEP DIRT LEG AT CONNECTION.
- PROVIDE 3" Ø PVC COMBUSTION AIR AND VENT PIPE FROM WATER HEATER UP TO CONCENTRIC THROUGH ROOF TERMINATION PER MANUFACTURER'S RECOMMENDATIONS. OFF-SET 18" CEILING AS REQUIRED TO MAINTAIN MINIMUM 10'-0" CLEARANCE FROM ANY ROOFTOP FRESH AIR INTAKES.

GENERAL PLUMBING NOTES

- ALL PIPING SHOWN IS FOR DIAGRAMMATIC PURPOSES ONLY. VERIFY IN FIELD EXACT ROUTING AND CONDITIONS.
- PROVIDE SHUT-OFF VALVES AT MINIMUM ON ALL PLUMBING LINES OF 2 OR MORE FIXTURES.
- PROVIDE A TRAP PRIMER FOR EACH FLOOR DRAIN. ROUTE 1/2" CW LINE FROM THE FLOOR DRAIN TO NEAREST MAIN.

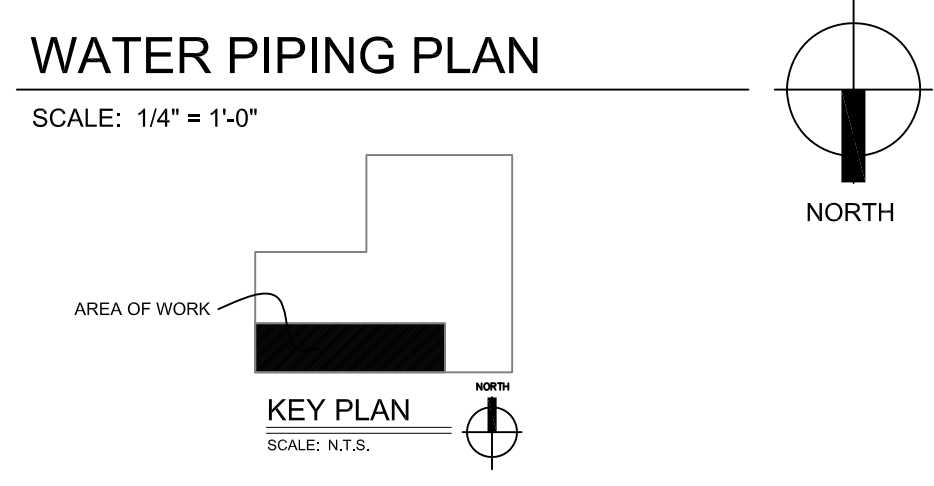
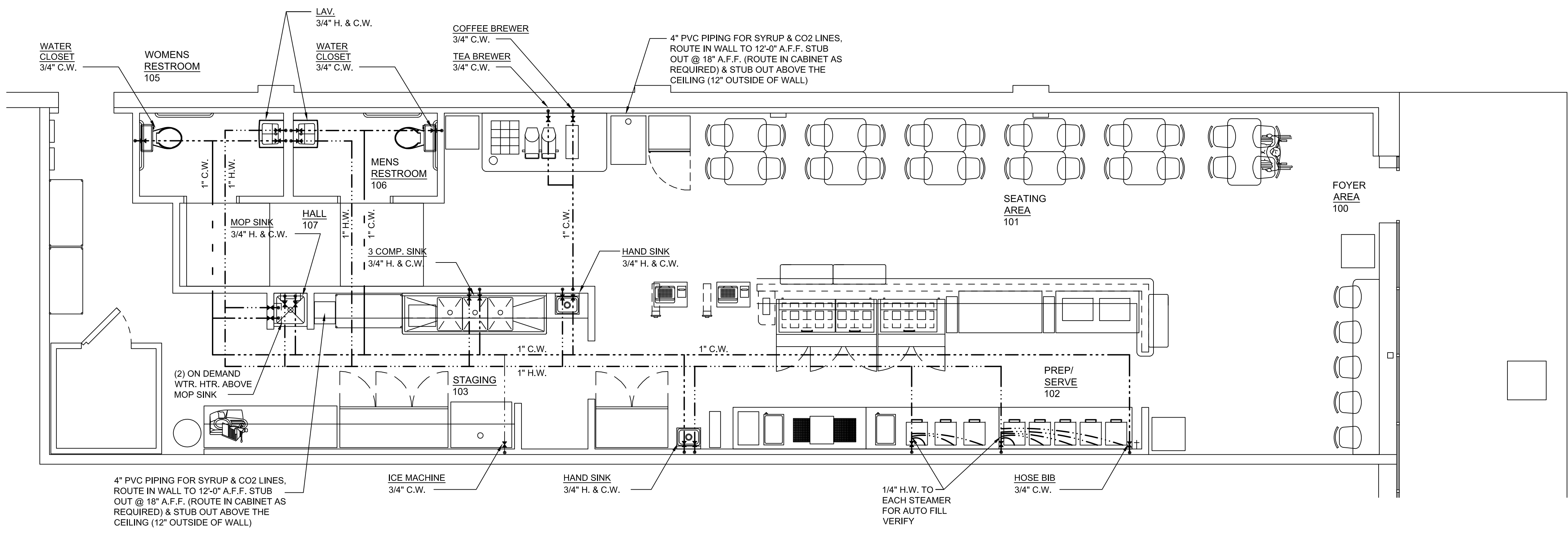
CONTRACTOR TO VERIFY LOCATION AND ADEQUACY OF EXISTING SANITARY SEWER AND ADJUST LAYOUT AS NECESSARY

ROUTE ALL VENT PIPING ABOVE CEILING AND CONNECT TO VENT THROUGH ROOF

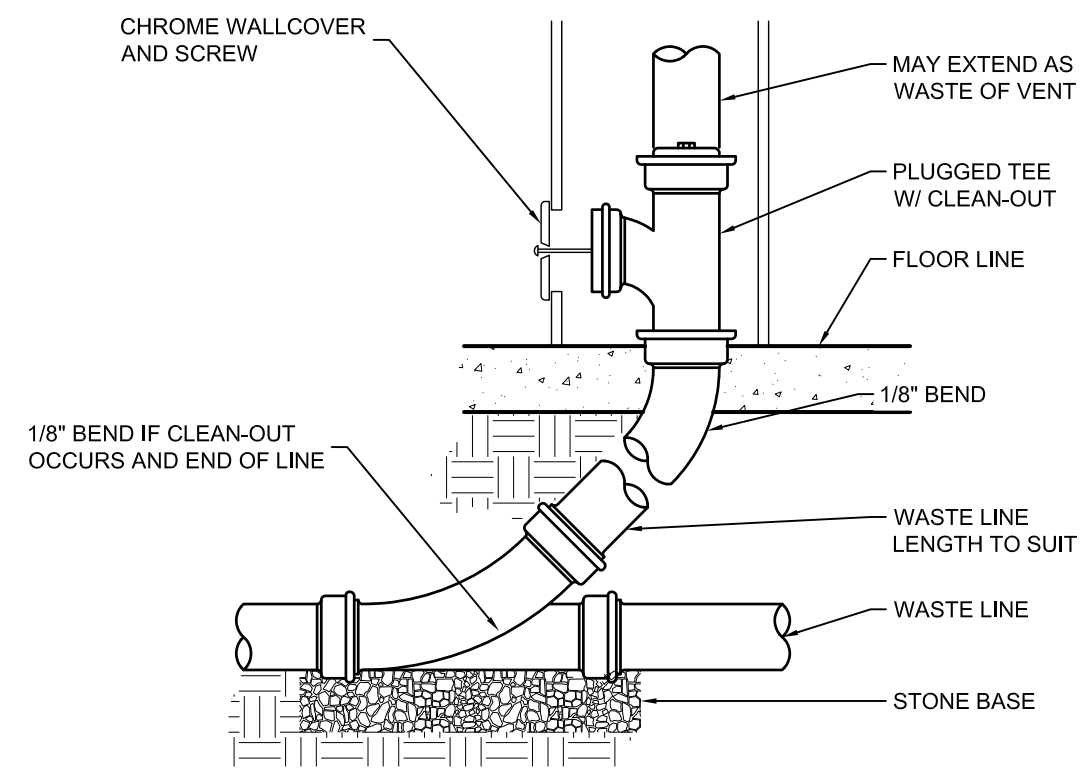
CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER SERVICE AND ADJUST LAYOUT AS NECESSARY

ROUTE ALL ABOVE GROUND WATER PIPING LINES AS HIGH AS POSSIBLE

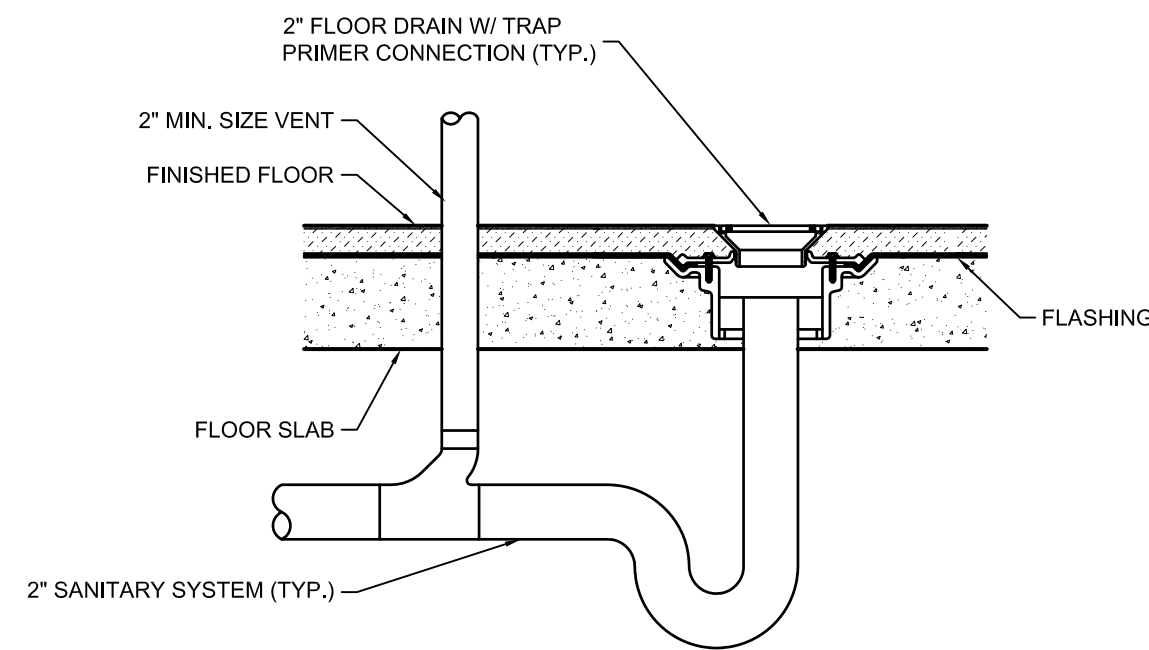
PLUMBING LEGEND		
ABBR.	DESCRIPTION	SYM.
CW	COLD WATER	●
HW	HOT WATER	○
W	WASTE	●
IW	INDIRECT WASTE	○
FD	FLOOR DRAIN	■
FFD	FUNNELHUB DRAIN (4" A.F.F. MAX.)	□
FS	FLOOR SINK	⊗
AFF	ABOVE FINISHED FLOOR	
KEC	KITCHEN EQUIPMENT CONTRACTOR	



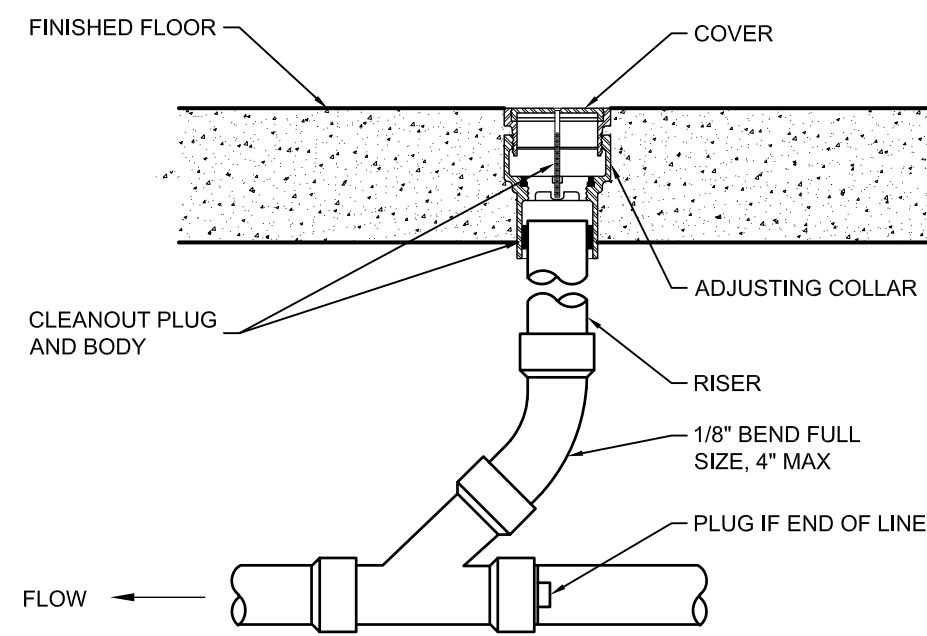
PLUMBING LEGEND		
ABBR.	DESCRIPTION	SYM.
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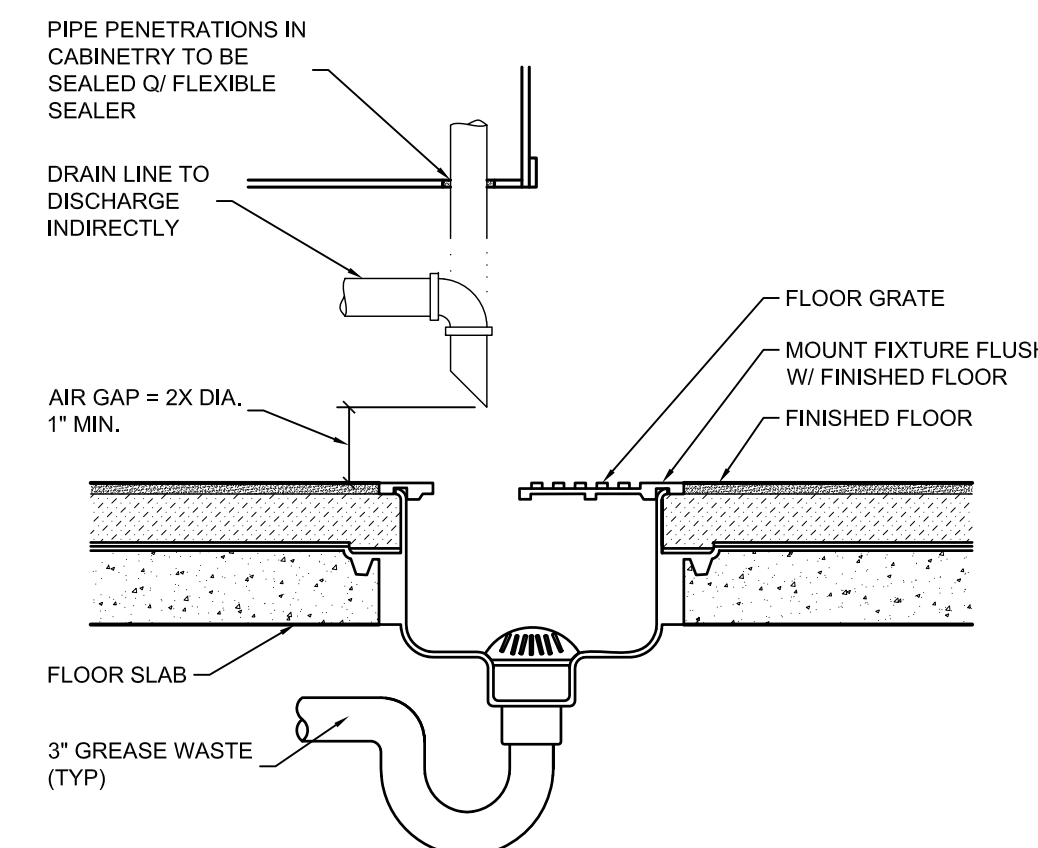
08 TYP FLOOR SINK DETAIL
P2.0 NTS



07 TYP FLOOR SINK DETAIL
P2.0 NTS



06 TYP FLOOR SINK DETAIL
P2.0 NTS



05 TYP FLOOR SINK DETAIL
P2.0 NTS

NOTE: ALL PLUMBING AND MECHANICAL WORK PERFORMED AT THIS PROJECT SHALL COMPLY WITH THE 2012 PLUMBING AND MECHANICAL CODES AS ADOPTED.

NOTE: PLUMBING CONTRACTOR TO FIELD LOCATE EXISTING SANITARY LINE. CONNECT NEW SANITARY AS REQUIRED.

NOTE: PLUMBING CONTRACTOR TO FIELD LOCATE EXISTING WATER TAP. CONNECT NEW WATER LINE AS REQUIRED.

NOTE: ALL HORIZONTAL DRY VENTS SHALL RISE VERTICALLY 6 INCHES ABOVE THE OVERFLOW OF THE TRAP OR TRAPPED FIXTURE BEING SERVED PER SECTION 905.4

CONNECT TO ALL EQUIPMENT VIA GAS COCK AND PRV.

GREASE INTERCEPTOR CALCULATIONS

3-COMPARTMENT SINK:
18" x 18" x 12" = 3,888 CUBIC INCHES x 3 BOWLS = 11,664 CUBIC INCHES / 231 CUBIC INCHES = 50.49 GALLONS
50.49 GALLONS x 75% CAPACITY = 37.87 GALLONS
DRAINAGE = 37.87 GPM AT ONE MINUTE TOTAL DRAINAGE PERIOD

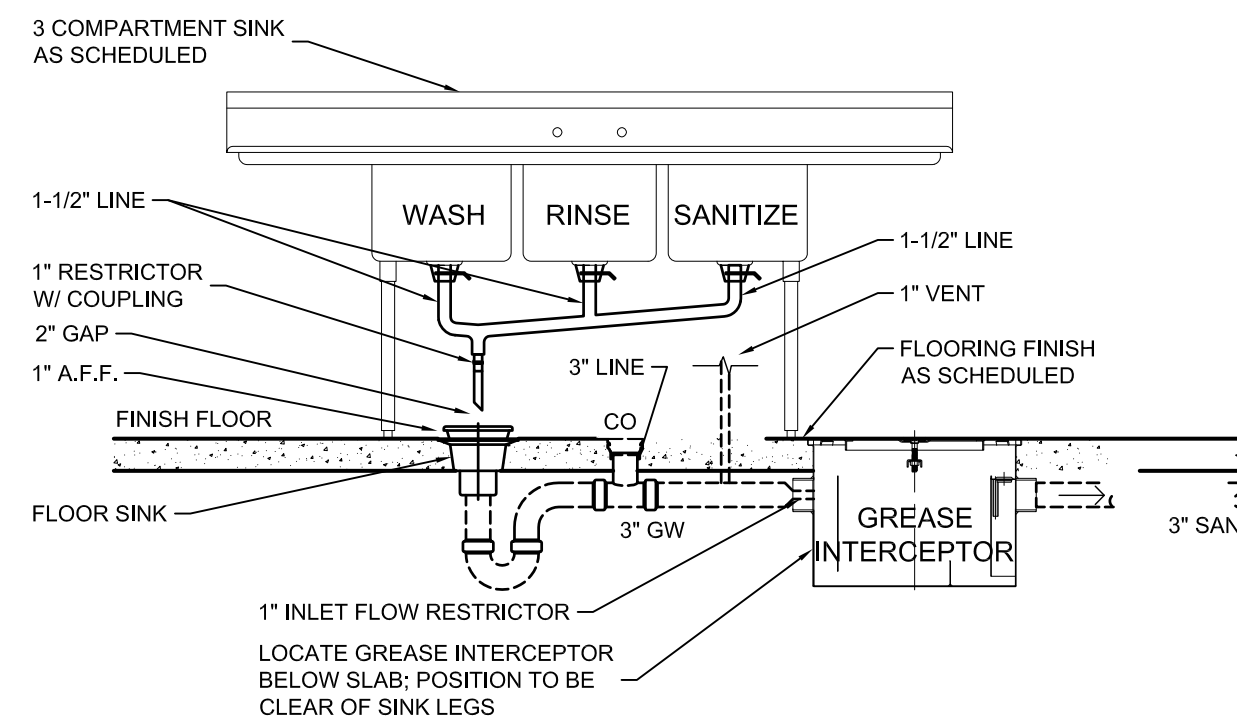
NOTE: PROVIDE FULL SIZE CLEANOUTS WHERE REQUIRED BY SECTION 708 OF PLUMBING CODE.

NOTE: PROVIDE TEMPERED WATER AT ALL ACCESSIBLE PLUMBING FIXTURES PER SECTION 607.

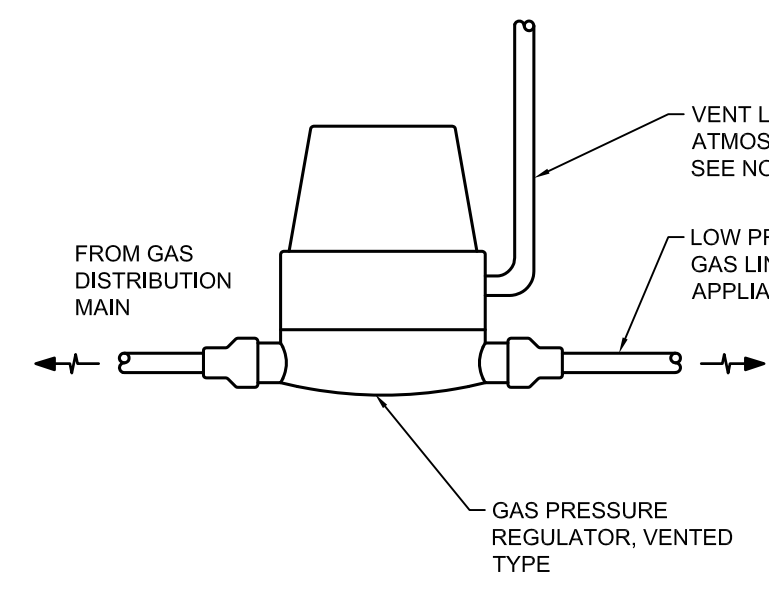
NOTE: DIRECT ALL INDIRECT WASTES INTO FLOOR SINKS/FFD'S PER LOCAL CODES.

NOTE: PLUMBING CONTRACTOR TO VERIFY THAT FLOOR SINKS/ FLOOR DRAINS & WASTES CONFORM TO LOCAL CODES.

CONTRACTOR SHALL VERIFY EXISTING GAS SERVICE IS SUFFICIENT FOR NEW EQUIPMENT REQUIREMENTS.



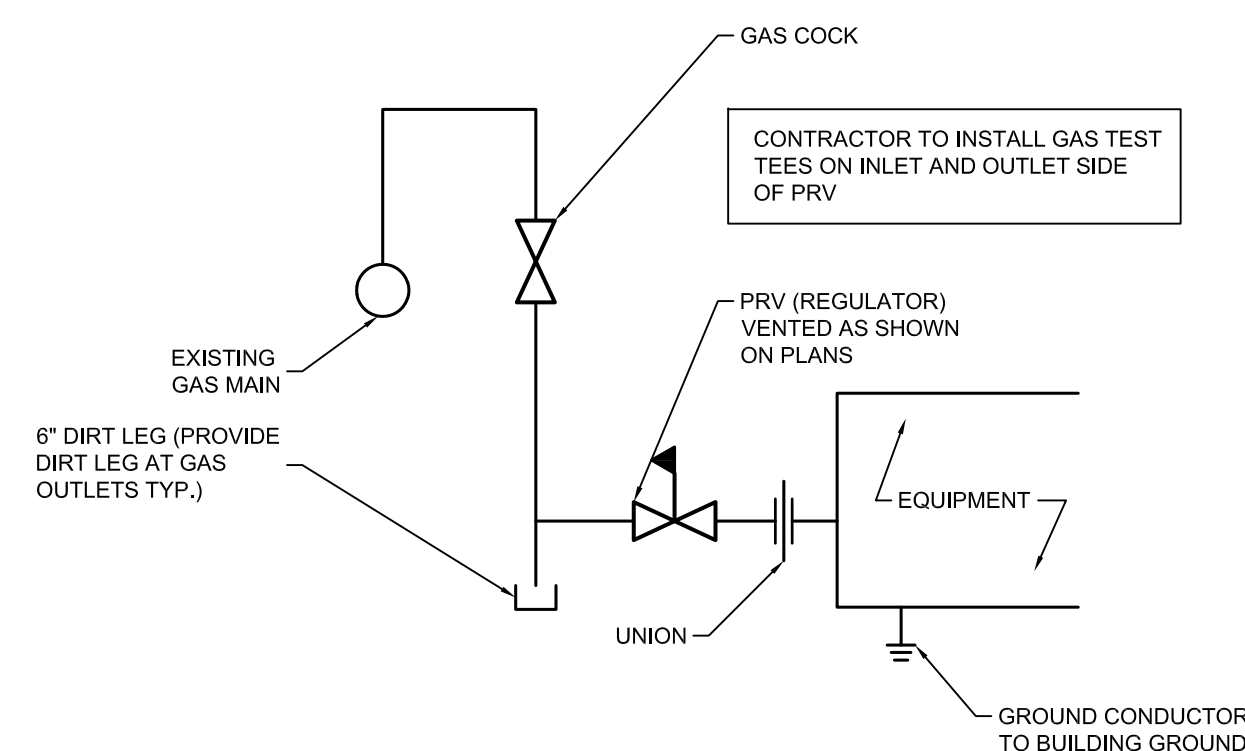
04 VENTED GAS PRESSURE REGULATOR
P2.0 NTS



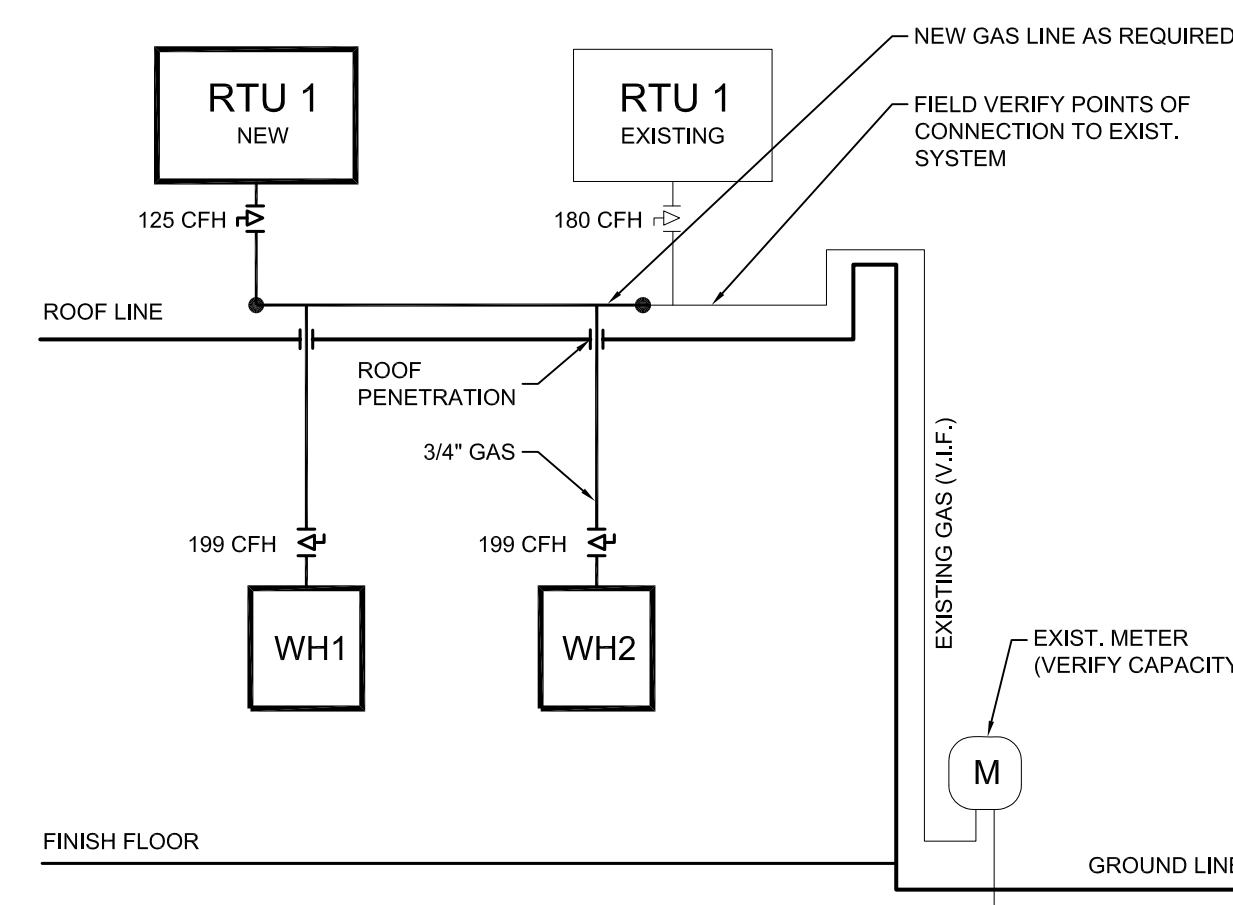
03 VENTED GAS PRESSURE REGULATOR
P2.0 NTS

NOTES:

1. VENT LINE SHALL BE SIZED AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
2. VENT LINE SHALL BE ROUTED TO THE OUTSIDE ATMOSPHERE. THE TERMINATION SHALL BE COVERED WITH INSECT SCREEN WITH A 90 DEGREE ELBOW TURNING DOWN TO PREVENT RAIN FROM ENTERING SYSTEM.
3. TERMINATION POINT SHALL BE A MINIMUM OF 36" ABOVE FINISHED GRADE AND A MINIMUM OF 10 FEET FROM OPERATING WINDOWS, OUTSIDE AIR INTAKES AND DOORS. FIELD VERIFY EXACT CONDITIONS.



02 GAS EQUIPMENT DETAIL
P2.0 NTS



01 GAS PIPING RISER DIAGRAM
P2.0 NTS

PLUMBING FIXTURE SCHEDULE

DESIGNATION	FIXTURE	MANUFACTURE	MODEL	FIXTURE DESCRIPTION	WASTE	VENT	CW	HW
WC-1	WATER CLOSET	PROFLO	PF1603PAWH	17" HIGH VITREOUS CHINA WATER CLOSET W/ ELONGATED BOWL (HANDICAP) HIGH EFFICIENCY, PRESSURE ASSIST FLUSH TANK (1.0 GPF) SEAT (NO LID) - CHURCH MODEL 9500-SSC MOUNT FLUSH CONTROL ON WIDE SIDE OF STALL PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.	4"	4"	1/2"	
LAV-1	LAVATORY	PROFLO	PF5518WH	DEARBORN 507-1 1/4" P TRAP W/ CO. CR 19-1/4x3/8" CP ANGLE STOP. 1-12A 3/8"x1/2" LAV. RISER. 760-1 DEARBORN GRID DRAIN. TRUEBRO 102E-Z WHITE COVER KITS. PROVIDE WITH THERMOSTATIC MIXING VALVE. 1.5 GPM WITH 0.5 GPM FLOW RESTRICTOR FAUCET. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.	2"	1-1/4"	1/2"	1/2"
HD-1	HUB DRAIN			HUB DRAIN STUBBED UP 8" A.F.F.	3"	2"		
FS-1	FLOOR SINK	JAY R. SMITH	2006-A-B-PB-U	FLOOR DRAIN W/ 6" ROUND POLISHED BRONZE STRAINER TOP PROVIDE W/ SEDIMENT BUCKET, VANDAL PROOF SCREWS, AND TRAP PRIMER CONNECTION	3"	2"		
FD-1	FLOOR DRAIN	JAY R. SMITH	3140	FLOOR SINK - 12" X 12" X 6" W/ DOME BOTTOM STRAINER AND 3" OUTLET COORDINATE GRATE STYLE WITH OWNER	3"	2"		
CO	CLEANOUT	JAY R. SMITH	4020	CLEANOUT W/ ROUND, POLISHED BRONZE TOP	LINE SIZE			
WCO	WALL CLEANOUT	JAY R. SMITH	4531	WALL CLEANOUT, BRONZE PLUG W/ COVER AND SCREW	LINE SIZE			
TMV	MIXING VALVE	LEONARD	210-LF-F	THERMOSTATIC MIXING VALVE Q/ CHECKSTOPS, SET AT 110 DEG. F. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL			1/2"	1/2"
HB-1	HOSE BIBB	WOODFORD	21	WALL FAUCET W/ REMOVEABLE T-HANDLE AND 3/4" THREAD. PROVIDE W/ WOODFORD 34H VACUUM BREAKER, T&S BRASS 059A HOSE ADAPTER, B-0096-H-8 FLEXIBLE HOSE, AND 009937-40 POT FILLER NOZZLE WITH AERATOR. MOUNT AT 48" A.F.F. (OPTIONAL ITEM)			3/4"	
WH1	WATER HEATER	RINNAI-OR OPTIONAL TANK STYLE	R94LSI	TANKLESS WATER HEATER, 199 MBH INPUT, 3.75 GAL/MIN (225 GAL/HR) RECOVERY AT 90 DEG. F. RISE, DIRECT VENT, FORCED COMBUSTION W/ MCC-91-1US CONTROLLER OR OPTIONAL TANK-STYLE ELECTRIC WATER HEATER BY A.P. SMITH PROVIDE BASIS OF DESIGN OR APPROVED EQUAL			3/4"	3/4"
WH2	WATER HEATER	RINNAI-OR OPTIONAL TANK STYLE	R94LSI	TANKLESS WATER HEATER, 199 MBH INPUT, 3.75 GAL/MIN (225 GAL/HR) RECOVERY AT 90 DEG. F. RISE, DIRECT VENT, FORCED COMBUSTION W/ MCC-91-1US CONTROLLER OR OPTIONAL TANK-STYLE ELECTRIC WATER HEATER BY A.P. SMITH PROVIDE BASIS OF DESIGN OR APPROVED EQUAL			3/4"	3/4"
P-1	HAND SINK	JOHN BOOS	PBHS-W-1410-P-SSLR	ZESCO IMPORTING BKHS-W-1410-4D-P-G OR BOOS PBHS-W-140-P-SSLR W. SPLASH GUARDS ON EACH SIDE. PROVIDED & INSTALLED BY PLUMBING CONTRACTOR. STUB OUT @ 16" A.F.F. RIM ELEVATION SHALL BE 34" A.F.F. PROVIDE WITH LEVER FAUCET, DRAIN AND SUPPLY INSTALUTE PER ANSI A117, AND THERMOSTATIC MIXING VALVE.	2"	1-1/2"	1/2"	1/2"
P-2	TRIPLE COMPARTMENT SINK	JOHN BOOS	3S8-1812-T18	UNIVERSAL STAINLESS 3/18-2D18. SUPPLIED BY EQUIPMENT SUPPLIER. INSTALLED BY PLUMBING CONTRACTOR. STUB OUT @ 16" A.F.F.	2"	1-1/2"	1/2"	1/2"
P-3	CAN WASH			QUARRY TILE CAN WASH WITH 8" ADJ. FAUCET WITH SHORT SPOUT, VACUUM BREAKER, AND ECCENTRIC STOPS.	3"	2"	1/2"	1/2"
P-4	SINGLE COMP. SINK	JOHN BOOS	1S18-12S18	UNIVERSAL STAINLESS 1N18-RD18. SUPPLIED BY EQUIPMENT SUPPLIER. INSTALLED BY PLUMBING CONTRACTOR. STUB OUT @ 16" A.F.F.	2"	1-1/2"	1/2"	1/2"
GI-1	GREASE INTERCEPTOR	ZURN	GT1700-50	GREASE INTERCEPTOR WITH VENTED INLET FLOW CONTROL DEVICE. 50 GPM FLOW RATE, 100LBS. GREASE CAPACITY. 4" INLET AND OUTLET. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.	4"			

GAS PIPING NOTES:

1. GAS PIPING AND FITTING SHALL BE SEAMLESS BLACK STEEL WITH MALLEABLE IRON FITTINGS. DIELECTRIC COUPLINGS OR UNIONS SHALL BE UTILIZED WHEN PIPING OF DISSIMILAR METAL IS CONNECTED. GAS PIPING OUTSIDE THE BUILDING SHALL BE PAINTED WITH BLACK "RUSTOLEUM" PAINT.
2. GAS PIPING SYSTEM SHALL BE INSTALLED TO THE REQUIREMENTS OF THE AGA PAMPHLET INSTALLATION OF GAS APPLIANCES AND GAS PIPING; AND THE NFPA STANDARD #54. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND PAY ALL FEES WITH THE "LOCAL" GAS COMPANY AS REQUIRED.
3. GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN NFPA #54, AND ANY OTHER TESTS REQUIRED BY THE LOCAL BUILDING DEPARTMENT AND/OR THE LOCAL GAS UTILITY COMPANY.
4. THE INSTALLING SUBCONTRACTOR SHALL BE LICENSED BY THE STATE FOR INSTALLATION OF GAS PIPING.
5. RUN OUT PIPING, FROM THE MAIN PIPING TO APPLIANCES, SHALL BE AN INVERTED TRAP CONNECTION AT THE MAIN.
6. A 12" DIRT LEG, PRESSURE REGULATED VALVE, AND A GAS COCK, SHALL BE PROVIDED AT ALL GAS APPLIANCES.

REFER TO EQUIPMENT CONNECTION DIAGRAM, FOR CONNECTION DETAILS

NATURAL GAS LOAD SCHEDULE

EQUIPMENT	QTY.	CAPACITY
HVAC: RTU-1	1	125K BTUH
HVAC: RTU-2	1	180K BTUH
HOT WATER: WH1	1	199K BTUH
HOT WATER: WH2	1	199K BTUH
TOTAL BTU		703K BTUH

NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING GAS PIPING AND METER SIZE AND CAPACITY TO DETERMINE ADEQUACY OF EXISTING SYSTEM FOR PROPOSED MODIFICATIONS. COORDINATE ANY UPGRADE REQUIREMENTS WITH BUILDING TENANT AND BUILDING OWNER.
2. PROVIDE GAS DRIP LEGS/ TUBES, PIPE UNIONS AND SHUT-OFF VALVES AT EACH PIECE OF NEW EQUIPMENT LISTED (SEE EQUIPMENT CONNECTION DIAGRAM).

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PROJECT NAME: FIREHOUSE SUBS
PROJECT LOCATION: 11492 MIDDLEBELT RD. LIVONIA, MI 48150

DRAWING INDEX	NO.	TITLE	DATE
	PERMIT SET		01-14-2022
	CONSTRUCTION SET		

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PROJECT MANAGER: _____

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ROOF TOP UNIT SCHEDULE																			
SYMBOL	SERVICE	DRAWING REFERENCE	MFG & MODEL NUMBER	SUPPLY FAN			OUTSIDE AIR		COOLING CAPACITY			HEATING CAPACITY		ELECTRICAL					NET WEIGHT (LBS)
				CFM	APPROX. EXT. S.P. W.G.	HP	MINIMUM CFM	MAXIMUM CFM	TOTAL (MBH)	SENSIBLE (MBH)	LATENT (MBH)	HEATING METHOD	CAPACITY (MBH)	VOLT	PH	HZ	MCA	MOP	
RTU-1	SEATING AREA	M-1	TRANE YHC-092	3,000	0.60	2.75	650	3,000	92.0	68.6	23.4	GAS	200 / 160	208/230	3	60	42	50	1,245
RTU-2	PREP & STAGING	M-1	TRANE YHC-060	2,000	0.60	1.0	200	2,000	63.5	47.3	16.2	GAS	80 / 65.6	208/230	3	60	30	45	976

POWER EXHAUSTER												
SYMBOL	SERVICE	DWG. REF.	TYPE	DRIVE	CFM	EXT. STAT. PRESSURE	ELECTRICAL				MANUFACTURER & MODEL	REMARK
							HP	VOLT	PH	HZ		
EF-1 & 2	TOILET ROOMS	M-1	CEILING MOUNTED	DIRECT	75	.25" WG	19.4 W.	120	1	60	GREENHECK MODEL SP-A110	INTERLOCK WITH LIGHT SWITCH.
EF-3	STEAMER EXHAUST	M-1	IN-LINE	BELT	1200	.50" WG	.25	120	1	60	GREENHECK MODEL BSQ-80-4	INTERLOCK WITH LIGHT SWITCH.

ROOF TOP AC UNIT NOTES:
A. UNITS SHALL HAVE 100% OUTSIDE AIR INTERGRATED ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF HOOD.
B. UNITS SHALL HAVE FACTORY INSTALLED FUSED DISCONNECT SWITCH.
C. UNITS SHALL HAVE 24" HIGH ROOF CURB SUPPLIED BY A/C UNIT MANUFACTURER.
D. UNITS SHALL HAVE FACTORY OPTION RETURN AIR SMOKE DETECTOR.
E. UNITS SHALL HAVE FACTORY INSTALLED GAS PRESSURE REGULATOR.
F. UNITS SHALL HAVE OPTIONAL POWERED 115V. CONVENIENCE OUTLET.
G. UNITS SHALL HAVE 5 YEAR COMPRESSOR WARRANTY.
H. PROVIDE HONEYWELL T7300 PROGRAMMABLE ROOM THERMOSTAT.
I. DESIGN DRAWING BASED ON TRANE. ACCEPTABLE ALTERNATE MANUFACTURER IS CARRIER, YORK OR AON.

NOTE:
PROVIDE OPTIONAL WALL EXHAUST LOUVER WITH BACKDRAFT DAMPER FOR EF-1, 2 & 3.

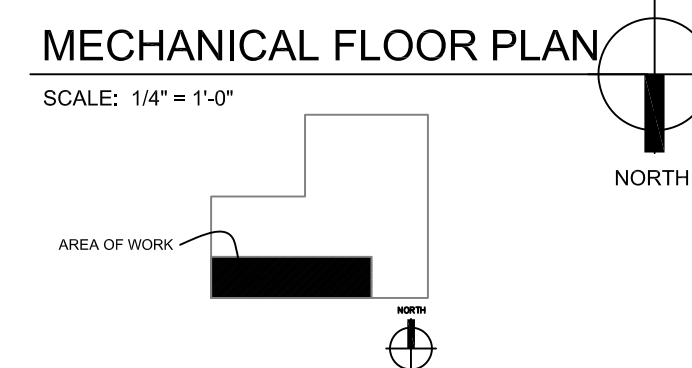
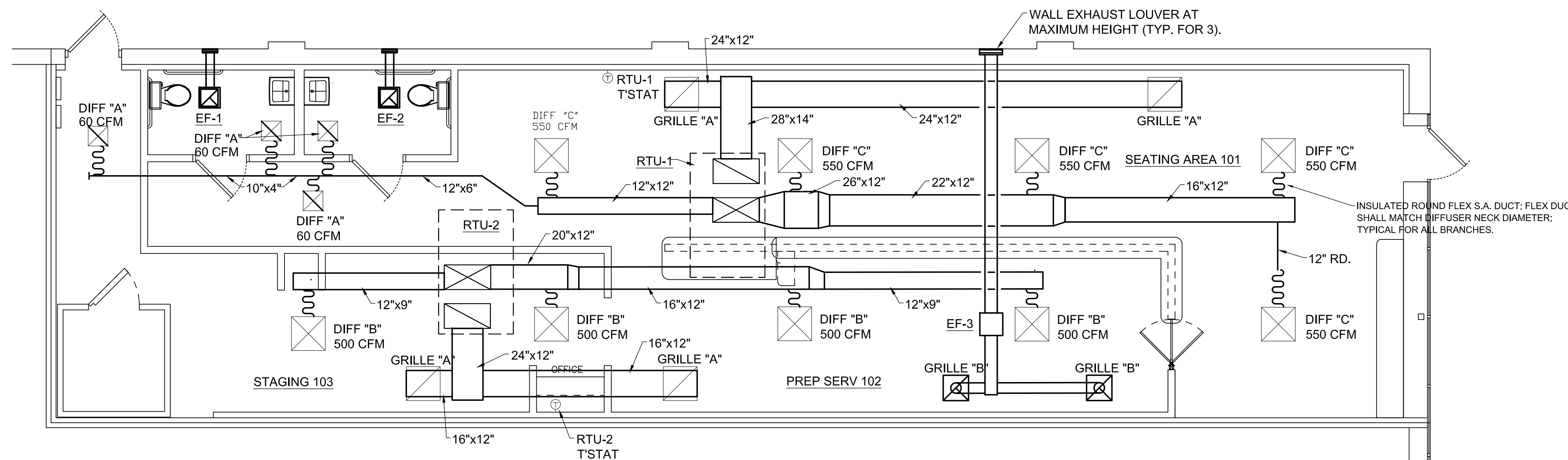
DIFFUSER, REGISTER AND GRILLE SCHEDULE				
SYMBOL	TYPE	MODEL	NECK SIZE	REMARKS
DIFF "A"	S.A. DIFFUSER	RZ-2153	6" RD.	24"x24" REZZIN 4-WAY LOUVERED DAMPER AND GRID
DIFF "B"	S.A. DIFFUSER	RZ-2153	12" RD.	24"x24" REZZIN 4-WAY LOUVERED DAMPER AND GRID
GRILLE "A"	R.A. GRILLE	RHF45T	24"x24"	24"x24" REZZIN 4-WAY LOUVERED DAMPER AND GRID
GRILLE "B"	EXH. GRILLE	RHF45T	12"x12"	WITH DAMPER

NOTE:
SELECTION BASED ON "HART & COOLEY" MODELS. ALTERNATE MANUFACTURER SHALL BE TITUS, KRUEGER OR METALAIRE.

VENTILATION SCHEDULE (PER MMC 403.3)								
SERVICE	PEOPLE O.A. RATE	PEOPLE	PEOPLE O.A.	AREA O.A. RATE	AREA	AREA O.A.	AREA+PEOPLE CODE O.A.	DESIGN O.A. RATE
SEATING AREA	7.5 CFM/PR	30	225 CFM	.18 CFM/SQ.FT.	715 SQ.FT.	129 CFM	354 CFM	500 CFM

MECHANICAL ABBREVIATION LIST

- AC UNIT AIR CONDITIONING UNIT
- AFF ABOVE FINISHED FLOOR
- AMPS AMPERES
- APPROX APPROXIMATE
- BFF BELOW FINISHED FLOOR
- BTU/HR BRITISH THERMAL UNITS PER HOUR
- CAP CAPACITY
- CFM CUBIC FEET PER MINUTE
- COMP COMPRESSOR
- COND CONDENSATE
- CONTR CONTRACTOR
- DB DRY BULB
- DN DOWN
- EF EXHAUST AIR FAN
- EH EXHAUST HOOD
- EVAP EVAPORATOR
- EXH EXHAUST
- EXIST EXISTING
- F FAHRENHEIT
- FCO FLOOR CLEAN OUT
- FLA FULL LOAD AMPERES
- FLEX FLEXIBLE
- FT FEET
- HP HORSEPOWER
- HZ HERTZ
- IE INVERT ELEVATION
- IN INCHES
- KW KILOWATTS
- MANUF MANUFACTURER
- MAX MAXIMUM
- MEZZ MEZZANINE
- MIN MINIMUM
- PE POWER EXHAUSTER
- PNL PANEL
- RA RETURN AIR
- RF RETURN AIR FAN
- RLA RATED LOAD AMPERES
- RPM REVOLUTIONS PER MINUTE
- SA SUPPLY AIR
- TA TRANSFER AIR
- T'STAT THERMOSTAT
- TYP TYPICAL
- V VOLTS
- ⊕ DOOR LOUVER
- ⊕ CONNECT NEW TO EXISTING



GREAT LAKES BAY CONSTRUCTION
DESIGN-BUILD GENERAL CONTRACTOR
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PROJECT NAME: FIREHOUSE SUBS
PROJECT LOCATION: 11492 MIDDLEBELT RD. LIVONIA, MI 48150

DRAWING INDEX	NO.	TITLE	DATE
PLAN REVIEW - PERMITS			01/03/22
CONSTRUCTION SET			01/12/22

DATE	
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PROJECT MANAGER	
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PROJECT NAME
FIREHOUSE SUBS
 PROJECT LOCATION
**11492 MIDDLEBELT RD.
 LIVONIA, MI 48150**

DRAWING INDEX	01.03.22	01.14.2022
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MECHANICAL SPECIFICATIONS:

GENERAL

1. ALL WORK SHALL BE IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
2. THE MECHANICAL PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY AND DETERMINE EXISTING CONDITIONS AND LIMITATIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE SUBMISSION OF A BID SHALL BE CONSIDERED AS INDICATING SUCH KNOWLEDGE THAT SUCH EXAMINATION HAS BEEN MADE AND VERIFIED.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STATE AND LOCAL BUILDING, MECHANICAL CODES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS REQUIRED TO COMPLETE THE PROJECT.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
6. CONTRACTOR SHALL WARRANTY ALL WORKMANSHIP, MATERIALS AND PERFORMANCE FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.

HVAC EQUIPMENT

1. INSTALL NEW HVAC EQUIPMENT PER THE MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
2. CONTRACTOR SHALL PROVIDE ONE-YEAR LABOR WARRANTY FOR ALL WORK ASSOCIATED WITH THIS PROJECT. EQUIPMENT MANUFACTURER SHALL PROVIDE ONE YEAR PARTS WARRANTY.
3. NEW EQUIPMENT SHALL BE SECURED IN ACCORDANCE WITH STATE BUILDING AND ENERGY CODE.

AIR BALANCE

1. CONTRACTOR SHALL PROVIDE PROPER TESTING, ADJUSTING AND BALANCING OF THE SYSTEM TO ACHIEVE SPECIFIED PERFORMANCE.
2. AIR BALANCE REPORT SHALL INCLUDE RTU, MUA & EXHAUST FAN PERFORMANCE WITH A LIST OF SCHEDULED AIR FLOW. REPORT SHALL INCLUDE THE FOLLOWING INFORMATION:
 - A) EQUIPMENT MANUFACTURER, MODEL SERIAL NUMBER AND COMPLETE NAMEPLATE DATA.
 - B) EQUIPMENT DESIGN SUPPLY AND OUTSIDE AIR CFM AND FINAL TEST SUPPLY AND OUTSIDE AIR CFM.
 - C) FAN MOTOR VOLTAGE, HORSEPOWER, COMPLETE NAMEPLATE DATA AND MOTOR SERVICE FACTOR.
 - D) DESIGN AIR FLOW AND FINAL TEST AIR FLOW AT EACH DIFFUSER, REGISTER AND GRILLE.
3. ALL TESTING PROCEDURES SHALL BE PER ASSOCIATED AIR BALANCING COUNCIL (AABC) PROCEDURAL STANDARDS FOR TESTING, ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS THROUGH AN APPROVED CERTIFIED AGENCY AND TECHNICIAN COMPLETE WITH SUBMITTAL REPORT.

WARRANTY

1. CONTRACTOR SHALL WARRANTY ALL WORKMANSHIP, MATERIALS AND PERFORMANCE FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
2. NEW ROOFTOP A.C. UNIT SHALL HAVE A 5-YEAR COMPRESSOR WARRANTY BY THE MANUFACTURER.

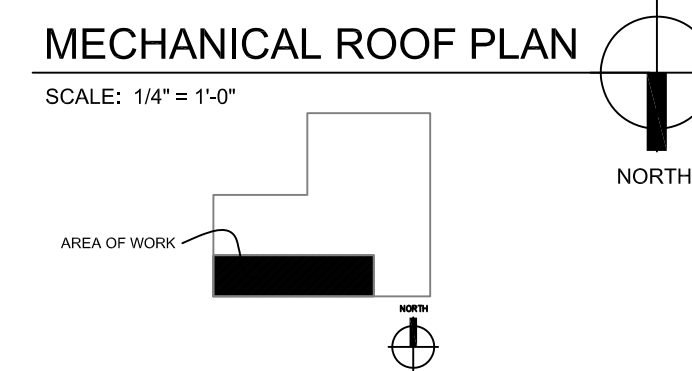
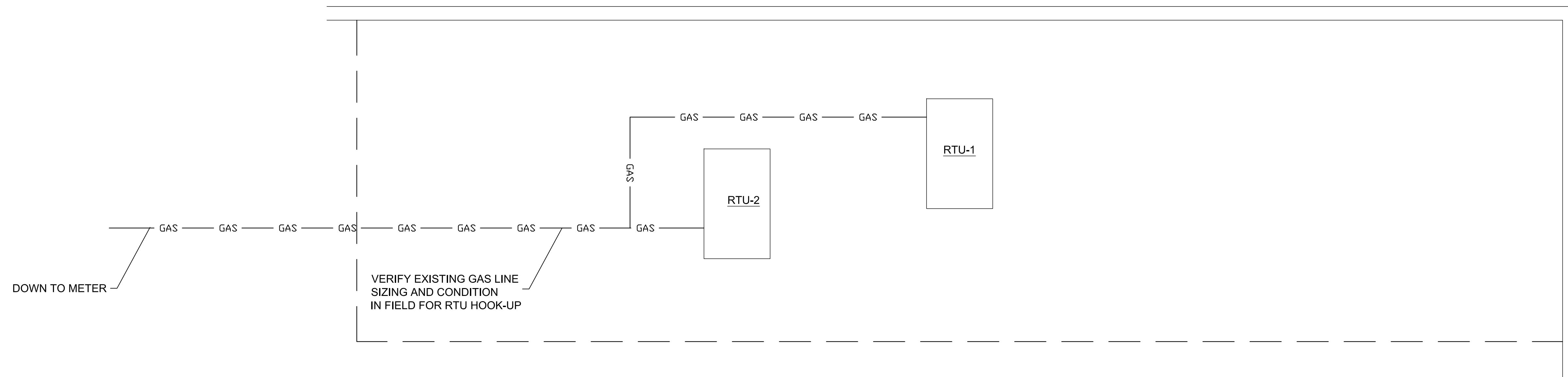
IDENTIFICATION

1. PROVIDE PLASTIC ENGRAVED EQUIPMENT TAGS ON ALL NEW EQUIPMENT.
2. PROVIDE A PLASTIC NAMEPLATE ON ELECTRICAL PANEL NEAR FUSE SWITCH TO IDENTIFY EQUIPMENT SERVED.

SHEET METAL

1. ALL SHEET METAL WORK SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARDS, PUBLISHED BY THE SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC., AND THE LATEST ASHRAE GUIDE, APPLICABLE TO LOW PRESSURE SYSTEMS.
2. NEW DUCTWORK SHALL BE MINIMUM 26 GAUGE GALVANIZED SHEET METAL. DUCTWORK SHALL SECURELY BRACED TO PREVENT VIBRATION.
3. PROVIDE TURNING VANES IN ALL 90 DEGREE ELBOWS AND AIR EXTRACTORS AT ALL BRANCH DUCT TAKE-OFFS.
4. NEW SUPPLY & RETURN DUCTWORK IN UNCONDITIONED SPACES SHALL HAVE 1" THICK, 3/4 LB DENSITY, EXTERNAL FIBERGLAS DUCT INSULATION WITH VAPOR BARRIER AND TAPED JOINTS.

AIR BALANCE SCHEDULE			
SERVICE	OUTSIDE AIR	EXHAUST AIR	COMMENT
RTU-1	650	---	7.5 TON CAPACITY; SERVING DINING AREA
RTU-2	200	---	5 TON CAPACITY; SERVING KITCHEN
TOILET ROOMS	---	150 CFM	SEE EF-1 & 2 SCHEDULE
STEAMER EXHAUST	---	1200 CFM	SEE EF-3 SCHEDULE
TOTAL	850 CFM	1350 CFM	



KEY NOTES

1. INTERLOCK EXHAUST FAN WITH LIGHTING CONTROLS SERVING THIS ROOM.
2. MECHANICAL EQUIPMENT LOCATED ON ROOF. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
3. VARIABLE SPEED EXHAUST FAN CONTROLLER PROVIDED BY OTHERS INSTALLED BY E.C. VERIFY ALL ELECTRICAL REQUIREMENTS WITH MECHANICAL.
4. PROVIDE AND INSTALL SWITCHED RECEPTACLE WITHIN 18-INCHES OF TOP OF SHOW WINDOW. REFER TO ELECTRICAL LIGHTING PLAN FOR SWITCH LOCATIONS.
5. ELECTRICAL SERVICE METER, MAIN TELE/DATA ROOM AND FIRE ALARM CONTROL PANEL LOCATION TO BE VERIFIED ON SITE. E.C SHALL VERIFY EXISTING CONDITIONS IN FIELD.

ELECTRICAL/DATA NOTES

POS STATION:

- CONTRACTOR TO PROVIDE ONE DEDICATED, ISOLATED GROUND RECEPTACLE (ORANGE) FOR EACH POS STATION.
- CONTRACTOR TO PROVIDE ONE J-BOX, AT EACH POS STATION WITH THREE TERMINATED CAT-5 CABLES IN EACH (I-POS, I-VERFONE, I-EXTRA)
- CONTRACTOR TO PROVIDE ONE J-BOX IN POS CABINET WITH ONE CAT-5 CABLE, TERMINATED FOR VOICE.
- CONTRACTOR TO PROVIDE ONE DUPLEX RECEPTACLE IN POS CABINET FOR THE BASE, ETC.

LINE PRINTER:

CONTRACTOR TO PROVIDE ONE DEDICATED, ISOLATED GROUND RECEPTACLE AND ONE J-BOX WITH ONE TERMINATED CAT-5 CABLE AT LINE PRINTER.

BUMP SCREEN:

CONTRACTOR TO PROVIDE ONE DEDICATED, ISOLATED GROUND RECEPTACLE AND ONE J-BOX WITH ONE TERMINATED CAT-5 CABLE AT END OF LINE FOR BUMP SCREEN.

MANAGERS DESK:

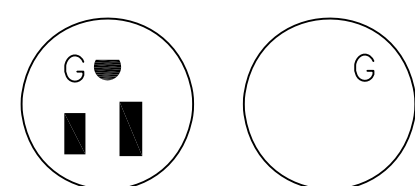
- CONTRACTOR TO PROVIDE 2 QUAD RECEPTACLES AT MANGER'S DESK (ONE ABOVE DESK, ONE BELOW DESK) AND ONE DUPLEX DEDICATED, ISOLATED GROUND RECEPTACLE. (ABOVE TOP SHELF)
- CONTRACTOR TO PROVIDE AN 18-PORT MODULAR PATCH PANEL, ABOVE TOP SHELF AT MANGER'S DESK.
- CONTRACTOR IS RESPONSIBLE FOR PULLING CAT-5 CABLE AND TERMINATING WALL JACKS.

COMMUNICATIONS NOTE:

- CONTRACTOR TO PROVIDE THREE J-BOXES AT CASH COUNTER FOR POWER, PHONE/ FAX, AND CAT-5, ROUTE 3/4" CONDUIT FROM EACH J-BOX BELOW FLOOR TO CLOSEST VERTICAL ACCESS AND TERMINATE 6" ABOVE CEILING.
- CONTRACTOR TO PROVIDE (3) CAT-5 CABLES IN ONE J-BOX (TERMINATIONS BY OTHERS) AND ROUTE TO STAGING AREA DESK.
- TELEPHONE/FAX, INTERNET AND POS WIRING AND TERMINATIONS TO BE PROVIDED BY OTHERS.
- COORDINATE ALL FINAL REQUIREMENTS WITH TENANT PRIOR TO INSTALLATION.

GENERAL POWER NOTES

1. ALL WORK MUST COMPLY WITH NEG, NFPA, LIFE SAFETY AND LOCAL APPLICABLE CODES.
2. ALL CONDUIT SHALL BE 3/4" EMT, MINIMUM.
3. ALL WIRE SHALL BE MINIMUM OF #12 THHN COPPER.
4. SEE ARCHITECTURAL DRAWINGS/ELEVATIONS FOR EXACT LOCATIONS OF ALL RECEPTACLES AND DEVICES.
5. ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANELBOARDS(S) TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 100'-0 ON 120/208V CIRCUITS.
6. POWER AND DATA WALL OUTLETS/J-BOXES MUST BE PROPERLY ALIGNED BETWEEN STUDS USING CADDY BRACKET OR APPROVED EQUAL SPACING FOR (3) 4X4 J-BOXES.
7. ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT (EMT) IN CONCEALED SPACES (WALLS AND INACCESSIBLE CEILING).
8. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT.
9. ALL 125-VOLT, SINGLE-PHASE 15 AND 20 AMPERE RECEPTACLES INSTALLED IN THE KITCHEN AREA SHALL BE GFCI PROTECTED. VERIFY MOUNTING HEIGHT FOR ALL RECEPTACLES.
10. VERIFY ELECTRICAL REQUIREMENTS, CONNECTION TYPE, AND LOCATION OF ALL EQUIPMENT BEFORE INSTALLATION.
11. ALL RECEPTACLE HEIGHT DESIGNATIONS ARE TO CENTER OF DEVICE.
12. CONTRACTOR TO PROVIDE THREE J-BOXES AT EACH CASH COUNTER AND FAX COUNTER ALONG WITH TWO AT STAGING AREA DESK. ROUTE 3/4" CONDUIT TO CLOSEST VERTICAL ACCESS AND TERMINATE 6" ABOVE CEILING. CONTRACTOR TO PROVIDE PHONE/FAX IN ONE W/ WALL JACKS AND (3) CAT-5 IN SECOND CONDUIT. DSL TO BE PROVIDED AT STAGING AREA DESK. POS INSTALLER SHALL INSTALL WALL JACKS ON CAT-5 CABLES, COORDINATE WITH OWNER PRIOR TO INSTALLATION.
13. ALL WIRING BOTH POWER AND COMMUNICATION SHALL BE LOCATED IN CHASE IN THE POS COUNTER AND FED FROM THE ADJACENT COUNTER WALL.
14. ALL RECEPTACLES AND SWITCHES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE.
- 14.1 FOYER, SEATING, HALL BLACK OUTLET, BLACK SWITCH, BLACK COVER PLATE.
- 14.2 MECH. ROOM, OFFICE, RESTROOM & BELOW CASH REGISTER WHITE OUTLET, WHITE SWITCH & WHITE COVER PLATE.
- 14.3 PREP & STAGING WHITE OUTLET, WHITE SWITCH & STAINLESS COVER PLATE.
- 14.4 WHITE OUTLET, WHITE SWITCH & STAINLESS COVER PLATE TO BE HUBBELL GF 20 WL
- 14.5 ENSURE RECEPTACLE IS MOUNTED IN SUCH A WAY THAT THE PIN CONNECTION IS ON THE TOP. SEE DIAGRAM BELOW.



SYMBOLS LEGEND

SYMBOLS	DESCRIPTION
	DUPLEX RECEPTACLE MOUNT @ 18" (450mm) A.F.F UNLESS OTHERWISE NOTED 48" - MOUNT AT 48" (1219mm) A.F.F. IG - ISOLATED GROUND 48" - MOUNT AT 6" (152mm) ABOVE COUNTERTOP GFI - GROUND FAULT INTERRUPTER
	SINGLE RECEPTOR MOUNT @ 18" (450mm) A.F.F UNLESS OTHERWISE NOTED.
	4-PLEX RECEPTACLE MOUNT @ 18" (450mm) A.F.F UNLESS OTHERWISE NOTED.
	208V. RECEPTACLE
	NOTE: MARK ALL J BOXES WITH BRANCH JUNCTION BOX CIRCUIT PANEL DESIGNATION & CIRCUIT NUMBER(S). WALL MOUNTED JUNCTION BOX
	FLUSH FLOOR MOUNTED RECEPTACLE OUTLET - USE BRASS COVER PLATES - STUB 3/4"C. (21mm) INTO ACCESSIBLE LOCATION ABOVE CEILING.
	TELEPHONE OUTLET MOUNT @ 18" A.F.F (450mm) UNLESS OTHERWISE NOTED - STUB 3/4"C. (21mm) INTO ACCESSIBLE LOCATION ABOVE CEILING. PROVIDE BLANK COVER PLATE. 2D-DOUBLE
	FLUSH FLOOR MOUNTED TELEPHONE OUTLET - USE BRASS COVER PLATES - STUB 3/4"C. (21mm) INTO ACCESSIBLE LOCATION ABOVE CEILING.
	DATA TERMINAL OUTLET MOUNT @ 18" A.F.F (450mm) UNLESS OTHERWISE NOTED - STUB 3/4"C. (21mm) INTO ACCESSIBLE LOCATION ABOVE CEILING. PROVIDE BLANK COVER PLATE. 2D-DOUBLE
	FLUSH FLOOR MOUNTED DATA TERMINAL - USE BRASS COVER PLATES - STUB 3/4"C. (21mm) INTO ACCESSIBLE LOCATION ABOVE CEILING.
	TELEPHONE/DATA TERMINAL COMBINATION OUTLET MOUNT @ 18" A.F.F (450mm) UNLESS OTHERWISE NOTED - STUB 3/4"C. (21mm) INTO ACCESSIBLE LOCATION ABOVE CEILING. PROVIDE BLANK COVER PLATE.
	TELEVISION OUTLET
	FUSIBLE DISCONNECT
	PANELBOARD - NOTE: PROVIDE TYPEWRITTEN DIRECTORIES AT COMPLETION OF WORK
	SWITCH MOUNT @ 48" A.F.F (1219mm) UNLESS OTHERWISE NOTED. D - DIMMER SWITCH T - TIMER L - LIMIT 3 - THREE WAY SWITCHING K - KEYED M - MANUAL STARTER OS - OCCUPANCY SENSOR
	RECESS MOUNTED FIXTURE A - FIXTURE TYPE a - SWITCHING DESIGNATION
	RECESSED DOWNLIGHT
	SURFACE / CHAIN MOUNTED FIXTURE
	WALL / POLE MOUNTED FIXTURE AA - FIXTURE TYPE
	WALL MOUNTED EXIT SIGN ARROW INDICATED
	CEILING MOUNTED EXIT SIGN
	CIRCUIT HOME-RUN (ARROWS INDICATE NUMBER OF CIRCUITS) A - 1,3,5 1,3,5 (#10) (#10) - USE 10 GAUGE COPPER WIRE (6mm ²)

NOTE: - NOT ALL SYMBOLS MAY APPLY TO ALL SHEETS
- ALL WIRE SHALL BE COPPER (MIN. #12 AWG) (4mm²) UNLESS OTHERWISE NOTED.
- FEEDERS SHALL CONFORM TO N.E.C 210.19(A)
- ALL SUPPORTS FOR EQUIPMENT AND DEVICES SHALL CONFORM SEISMIC ZONE REQUIREMENTS AND LOCAL AUTHORITY HAVING JURISDICTION LIGHT FIXTURES SHALL BE SUPPORTED IN ACCORDANCE WITH N.E.C ARTICLE 300 SPECIFICALLY PARAGRAPH 300.11(A)

GREAT LAKES BAY CONSTRUCTION
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PROJECT NAME: FIREHOUSE SUBS
PROJECT LOCATION: 11492 MIDDLEBELT RD. LIVONIA, MI 48150

DRAWING INDEX	NO.	TITLE	DATE
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PANEL A										120/208V 3 PHASE 4 WIRE ISCA RATING 10,000 NEM RATING 1 RECESSED MOUNT MAINS: 200A M.L.O.									
LOAD SERVED	TRIP	PIPE	CIR.	GND.	LOAD KVA	CKT. #	A	B	C	CKT. #	LOAD KVA	GND.	CIR.	PIPE	TRIP	LOAD SERVED			
RECEPT. - GENERAL	20	1/2	12	12	1.0	1				2	5.0		6			RTU-1 (NEW) (VERIFY ELEC. LOAD)			
RECEPT. - GENERAL	20	1/2	12	12	1.0	3				4	5.0		8	1 1/4	35				
RECEPT. - GENERAL	20	1/2	12	12	1.0	5				6	5.0		6						
RECEPT. - DRINK STATION	20	1/2	12	12	0.4	7				8	1.0	12	12	1/2	20	LIGHTS			
RECEPT. - FRONT COUNTER	20	1/2	12	12	0.6	9				10	1.0	12	12	1/2	20	LIGHTS			
RECEPT. - WORK TABLE	20	1/2	12	12	0.4	11				12	1.0	12	12	1/2	20	EM/EX/NL			
RECEPT. TEA/COFFEE	20	1/2	12	12	0.6	13				14	0.6	12	12	1/2	20	RECEPT. ROOF			
ICE MAKER	20	1/2	12	12	1.0	15				16	1.0	12	12	1/2	20	WATER HEATER			
					1.0	17				18	0.4	12	12	1/2	20	FREESTYLE COKE MACHINE			
SIGNAGE	20	1/2	12	12	1.0	19				20	0.6	12	12	1/2	20	WINDOW CLG. RECEPT			
RECEPT. - RESTROOMS	20	1/2	12	12	0.4	21				22									
REMOTE PRINTER	20	1/2	12	12	0.4	23				24	0.4	12	12	1/2	20	PHONE SYSTEM			
EF-2	20	1/2	12	12	0.8	25				26						SPARE			
CASH REGISTER	20	1/2	12	12	0.4	27				28						SPARE			
CASH REGISTER	20	1/2	12	12	0.4	29				30						SPARE			
OFFICE	20	1/2	12	12	0.4	31				32	0.6	12	12	1/2	20	72" SANDWICH UNIT			
		1/2	12	12	1.4	33				34	1.2	12	12	1/2	20	MICROWAVE			
TOASTER	30	1/2	12	12	1.4	35				36	1.0	12	12	1/2	20	COOKIE OVEN			
SPACE ONLY	--	--	--	--	--	37				38						SPACE ONLY			
SPACE ONLY	--	--	--	--	--	39				40						SPACE ONLY			
SPACE ONLY	--	--	--	--	--	41				42						SPACE ONLY			
					13.6						23.8								

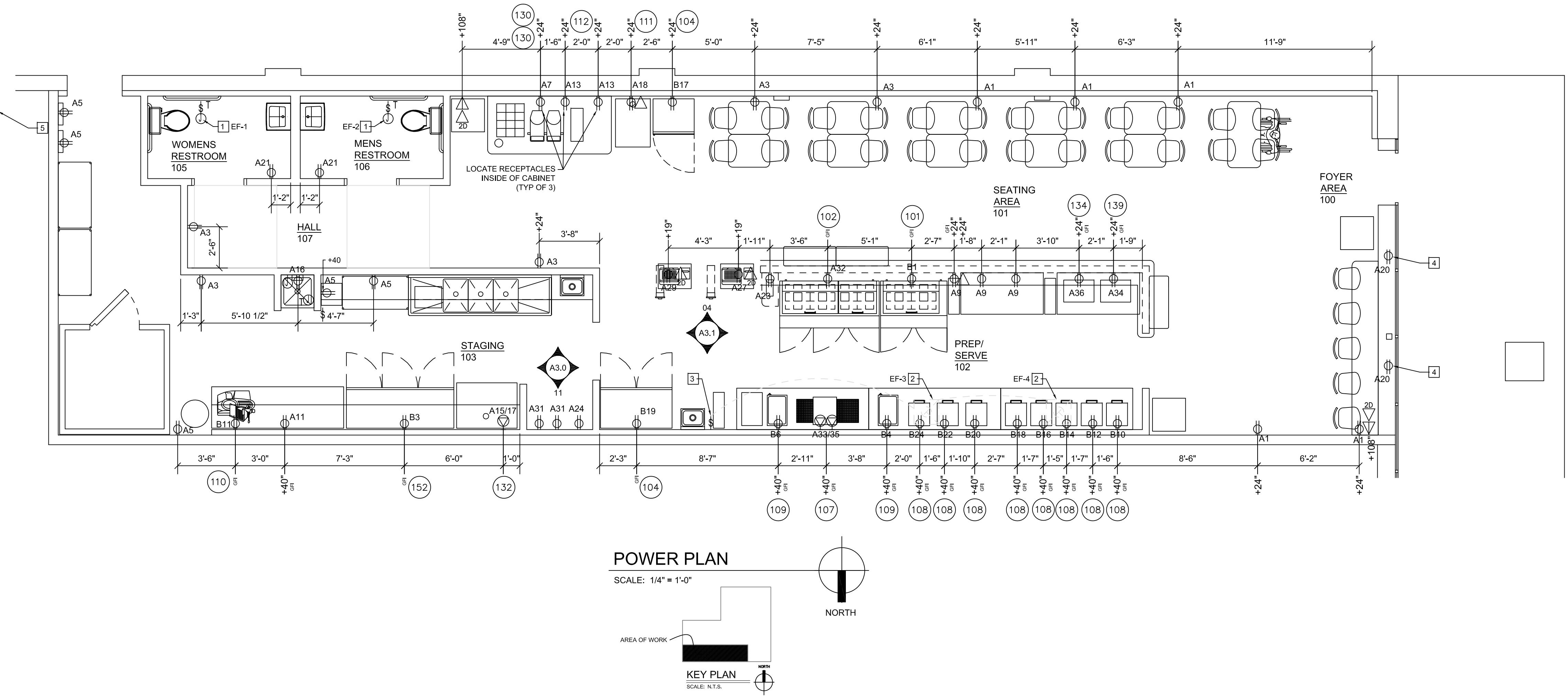
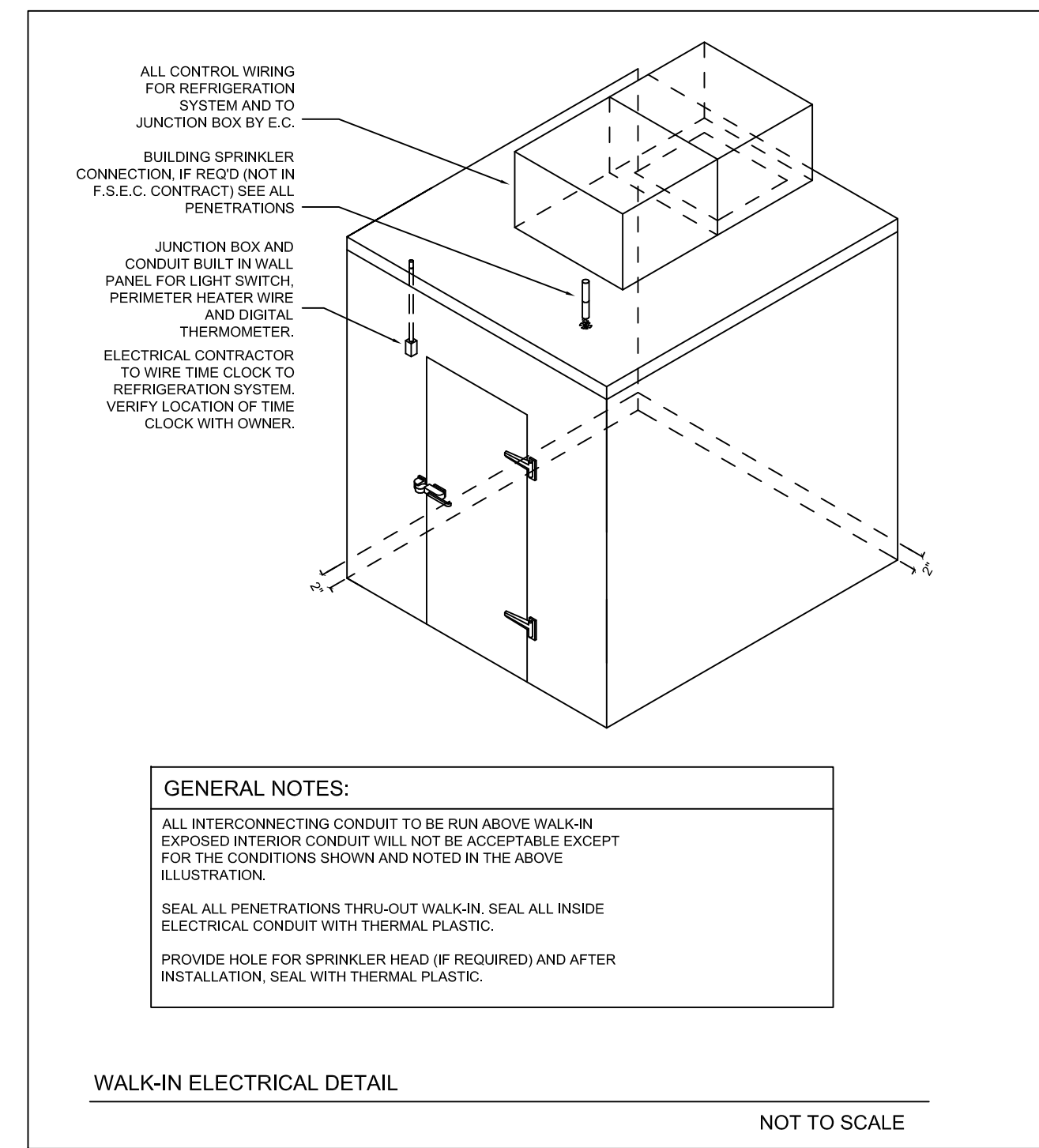
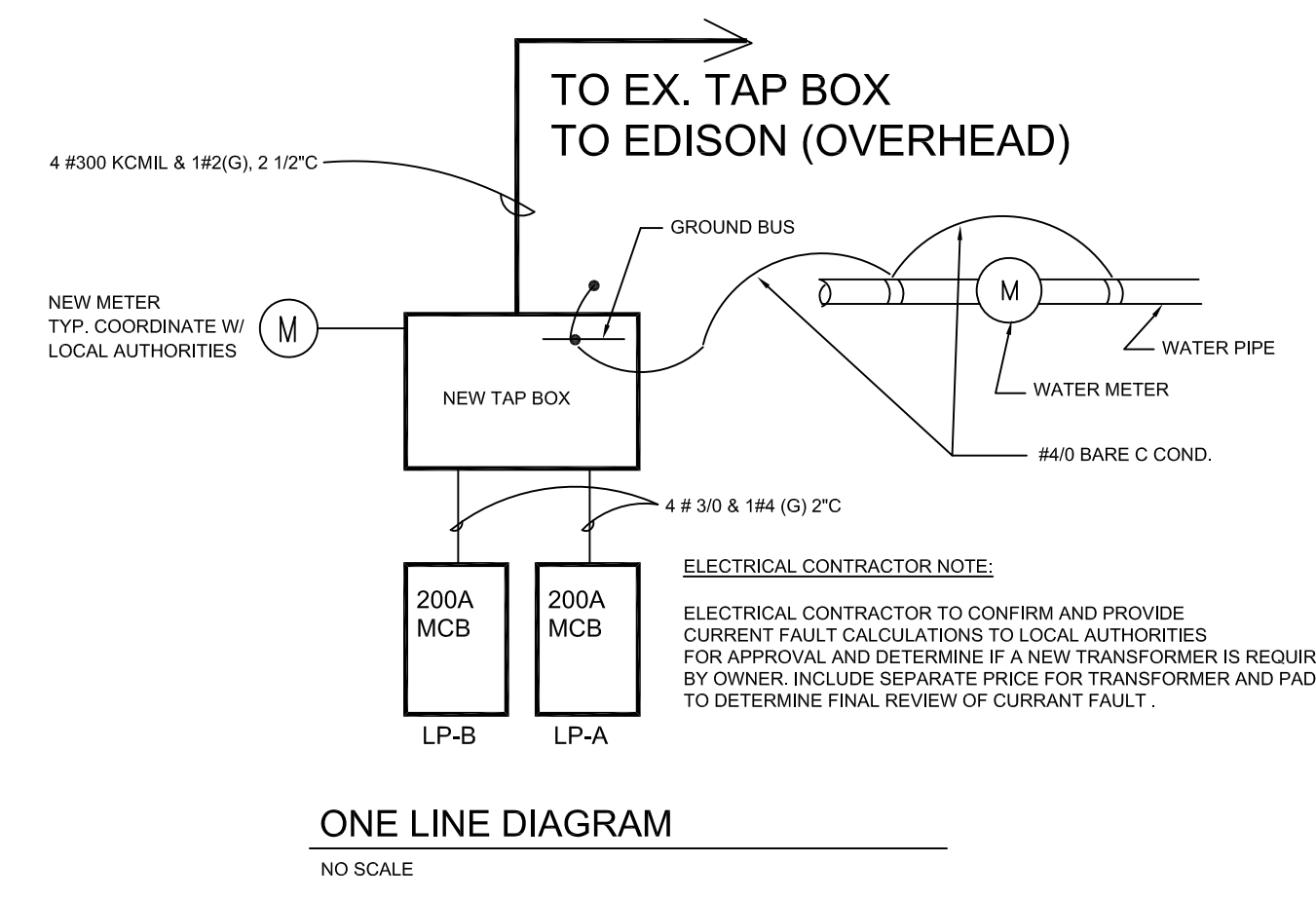
TYPE OF MOUNTING: WALL
TOTAL CONN. LOAD: 37.4 KVA
AMPERES: 103.6

ALL CIRCUIT BREAKERS SHALL BE 20A-1P UNLESS OTHERWISE NOTED

PANEL B										120/208V 3 PHASE 4 WIRE ISCA RATING 10,000 NEM RATING 1 RECESSED MOUNT MAINS: 200A M.L.O.									
LOAD SERVED	TRIP	PIPE	CIR.	GND.	LOAD KVA	CKT. #	A	B	C	CKT. #	LOAD KVA	GND.	CIR.	PIPE	TRIP	LOAD SERVED			
48" SANDWICH UNIT	20	1/2	12	12	0.6	1				2	--	--	--	--	20	SPARE			
3-DOOR COOLER	20	1/2	12	12	2.0	3				4	2.0	12	12	1/2	20	WARMER			
SPARE	20	--	--	--	--	5				6	2.0	12	12	1/2	20	WARMER			
SPARE	20	--	--	--	--	7				8	2.0	--	--	--	20	SPARE			
SPARE	20	--	--	--	--	9				10	2.0	12	12	1/2	20	STEAMER			
SLICER	20	1/2	12	12	--	11				12	2.0	12	12	1/2	20	STEAMER			
WALK IN FREEZER	30	1/2	12	12	2.0	13				14	2.0	12	12	1/2	20	STEAMER			
		1/2	12	12	2.0	15				16	2.0	12	12	1/2	20	STEAMER			
COKE COOLER	20	1/2	12	12	1.0	17				18	2.0	12	12	1/2	20	STEAMER			
2-DOOR COOLER	20	1/2	12	12	1.0	19				20	2.0	12	12	1/2	20	STEAMER			
SPARE	20	--	--	--	--	21				22	2.0	12	12	1/2	20	STEAMER			
SPARE	20	--	--	--	--	23				24	2.0	12	12	1/2	20	STEAMER			
SPARE	20	--	--	--	--	25				26	--	--	--	--	20	SPARE			
SPARE	20	--	--	--	--	27				28	--	--	--	--	20	SPARE			
SPARE	20	--	--	--	--	29				30	--	--	--	--		SPACE ONLY			
SPARE	20	--	--	--	--	31				32	--	--	--	--		SPACE ONLY			
SPARE	20	--	--	--	--	33				34	--	--	--	--		SPACE ONLY			
SPACE ONLY	--	--	--	--	--	35				36	--	--	--	--		SPACE ONLY			
SPACE ONLY	--	--	--	--	--	37				38	5.0		6			RTU-2 (NEW) (VERIFY ELEC. LOAD)			
SPACE ONLY	--	--	--	--	--	39				40	5.0	8	6	1 1/4	35				
SPACE ONLY	--	--	--	--	--	41				42	5.0		6						
					8.6						37								

TYPE OF MOUNTING: WALL
TOTAL CONN. LOAD: 45.6 KVA
AMPERES: 126.3

ALL CIRCUIT BREAKERS SHALL BE 20A-1P UNLESS OTHERWISE NOTED



- ELECTRICAL ROUGH-IN NOTES:**
- THIS PLAN IS INTENDED TO SHOW FOOD SERVICE EQUIPMENT ELECTRICAL REQUIREMENTS AND ROUGH-IN HEIGHTS ONLY. VERIFY W/ ARCHITECT AND/OR OWNER FOR ANY ELECTRICAL CONNECTIONS FOR EQUIPMENT NOT SHOWN OR SUPPLIED BY F.S.E.C.
 - ALL DIMENSIONS ARE TAKEN FROM FINISHED FLOORS AND FINISHED WALLS OR AS NOTED ON PLAN TO CENTERLINE OF JUNCTION BOX OR OUTLET. FOR ALL STUB-UPS AT 4" A.F.F. MAXIMUM HEIGHT TO TOP OF J-BOX IS TO BE 5 1/2" A.F.F.
 - ALL ROUGH-INS SHOWN AT WALL LOCATIONS ARE TO BE LOCATED WITHIN INTERIOR OF WALL. COORDINATE WITH ARCHITECTURAL PLANS FOR ADDITIONAL FLOOR PLAN, BUILDING ELECTRICAL REQUIREMENTS.
 - ELECTRICAL CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS NECESSARY TO PROVIDE SERVICE TO LOCATIONS AND EQUIPMENT AS SHOWN ON THIS SHEET UNLESS NOTED OTHERWISE. ELECTRICAL CONTRACTOR IS ALSO RESPONSIBLE FOR MAKING FINAL CONNECTIONS TO EQUIPMENT AND FITTINGS SUPPLIED AND INSTALLED BY PSEC. ALL DISCONNECTS OR LOCK-OUT DEVICES, STARTERS, ETC. TO MEET N.E.C. AND O.S.H.A. STANDARDS.
 - ALL WORK RELATING TO THE INSTALLATION AND HOOKUP OF THE SPECIFIED EQUIPMENT, IS TO BE PERFORMED IN FULL ACCORDANCE WITH APPLICABLE LOCAL, CITY, COUNTY, STATE AND FEDERAL CODES AND ALL OTHER GOVERNMENTAL REGULATORY REQUIREMENTS.
 - ELECTRICAL BOXES AND CONDUIT TO BE IN WALLS, SURFACE MOUNTED WORK IS NOT ACCEPTABLE. WHERE EXPOSED WORK IS UNAVOIDABLE, ALL ELECTRICAL CONDUIT/FLEX MUST BE FASTENED A MINIMUM OF 6" A.F.F. TO ALLOW FOR FLOOR CLEANING.
 - ELECTRICAL CONTRACTOR TO BRANCH TO CONNECTION WHERE REQUIRED AND TO CONNECT ALL ELECTRICAL EQUIPMENT AND FIXTURES. ALSO DO ANY INTERNAL WIRING REQUIRED IN THE FIXTURES INCLUDING INTER-WIRING TO APPLIANCES AS REQUIRED BY THE SPECIFICATIONS AND/OR DRAWINGS.
 - ALL ELECTRICAL OUTLET COVER PLATES ARE TO BE STAINLESS STEEL. THOSE REQUIRED IN BUILDING STRUCTURE ARE TO BE FURNISHED BY THE ELECTRICIAN, WITH RECEPTACLE. ALL MAIN BREAKER PANELS AND DISCONNECT SWITCHES REQUIRED BY OTHER ELECTRICAL DRAWINGS ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AT TIME OF INSTALLATION.
 - VERIFY WITH ARCHITECT OR OWNER'S REPRESENTATIVE, FINAL EQUIPMENT REQUIREMENTS AND/OR ADDITIONAL WORK TO BE DONE, INCLUDING SUCH ITEMS AS GENERAL PURPOSE OUTLETS, NON FOOD SERVICE ITEMS, & OWNER SUPPLIED EQUIPMENT BEFORE ORDERING MATERIAL. REVISIONS TO EQUIPMENT OR PERFORMANCE REQUIREMENTS MAY AFFECT THE ELECTRICIAN'S WORK.

GREAT LAKES BAY CONSTRUCTION
DESIGN-BUILD GENERAL CONTRACTOR

2525 N. EASTMAN RD. MIDLAND, MI 48642
PHONE: (989) 832-2000
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PROJECT NAME: FIREHOUSE SUBS
PROJECT LOCATION: 11492 MIDDLEBELT RD. LIVONIA, MI 48150

NO.	TITLE	DATE
1	PAN REVIEW - PERMITS	01/03/22
2	CONSTRUCTION SET	01/14/2022

DRAWING INDEX

SCALE

DATE

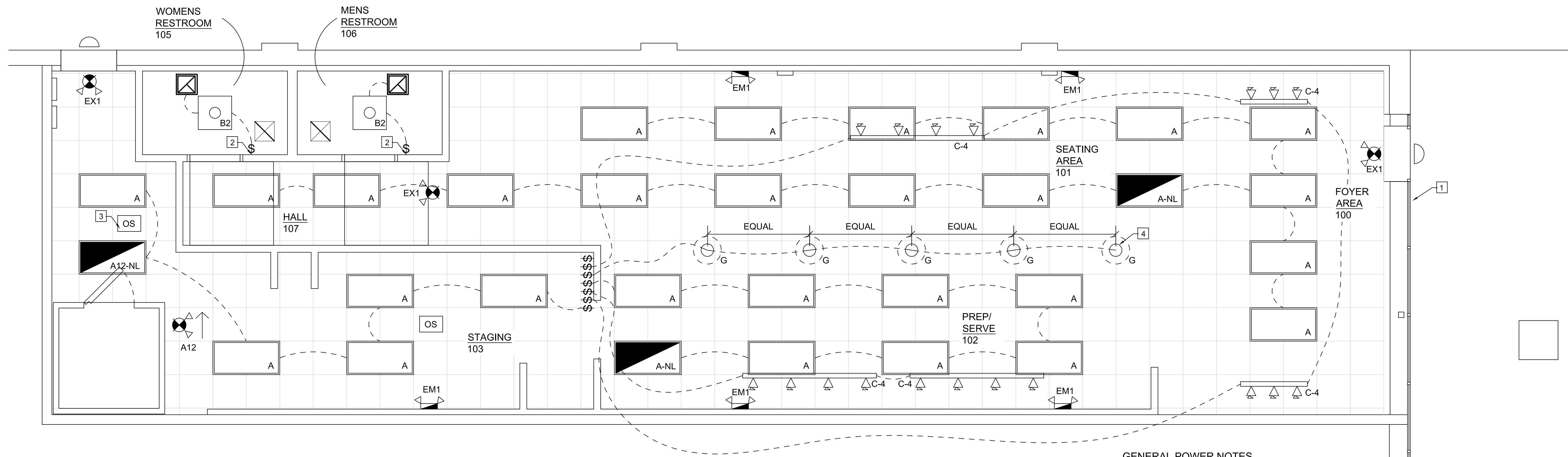
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PROJECT MANAGER

PROJECT NUMBER: 21195

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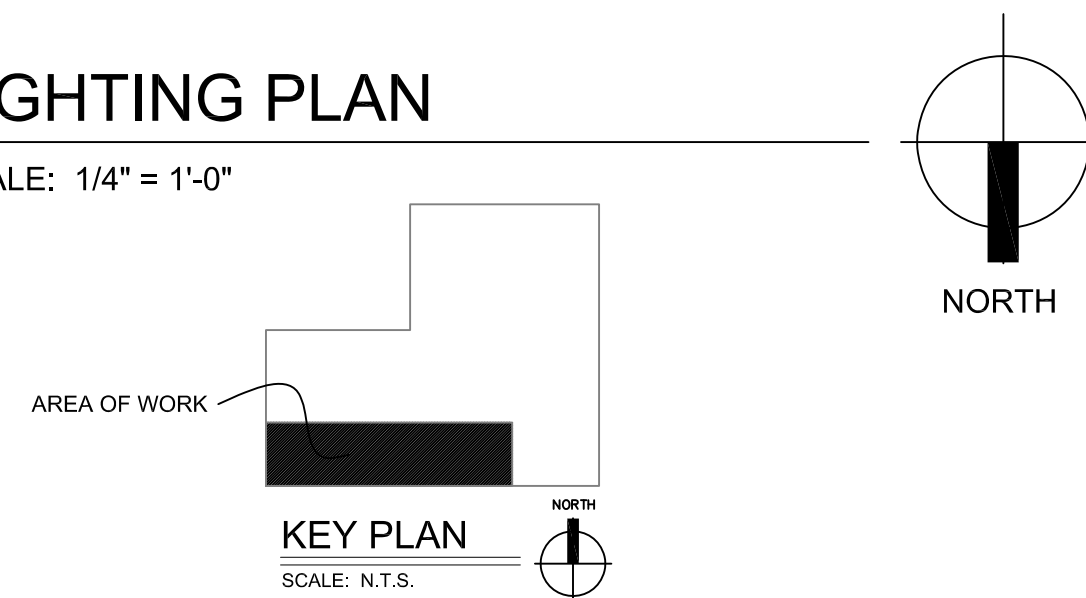


CEILING/ LIGHT FIXTURE SCHEDULE

LABEL	SYMBOL	ITEM DESCRIPTION	MOUNTING
A		2 X 4 LED LIGHT	LAY-IN
B2		2 X 2 LED LIGHT	LAY-IN
A-NL		DENOTES LIGHT FIXTURE WIRED TO 24 HOUR CIRCUIT (NIGHT LIGHT)	LAY-IN
G		PENDANT HUNG LIGHT FIXTURE; CENTER OF COUNTER OR AS SHOWN. MOUNT WITH BOTTOM OF FIXTURE AT 7'-2" A.F.F. COORD. W/ JACKSON LIGHTING FOR REQUIRED CORD LENGTH.	PENDANT HUNG
C-4 C-8		4' OR 8' TRACK LIGHT	CEILING MOUNT
		RECESSED CAN LIGHT WITH TRIM RING AND CLEAR ALZAK REFLECTOR	CEILING MOUNT
		THERMOSTAT	
		WALL MOUNTED LIGHT OR OTHER SWITCH. 3 = 3 WAY SWITCH 4 = 4 WAY SWITCH OC = MOTION ACTIVATED OCCUPANCY SENSOR	
EM1		WALL MOUNTED EMERGENCY EXIT LIGHT WITH BATTERY BACKUP.	WALL MOUNT
EX1		EMERGENCY EXIT SIGN WITH BATTERY BACK UP AND EMERGENCY LIGHTS.	WALL MOUNT
		EXTERIOR EMERGENCY EXIT LIGHT. FEED FROM EXIT SIGN INSIDE SPACE.	WALL MOUNT

LIGHTING PLAN

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



KEY NOTES:

1. PROVIDE JUNCTION BOX, DISCONNECT SWITCH AND FLEXIBLE CONNECTIONS REQUIRED FOR EXTERIOR SIGNAGE. COORDINATE EXACT SIGNAGE LOCATION AND REQUIREMENTS WITH ARCHITECT. PROVIDE CONDUIT AND POWER WIRING AS REQUIRED.
2. OS = OCCUPANCY SENSOR.
3. OSC = OCCUPANCY SENSOR IN CEILING
4. BOTTOM OF SHADE TO BE 7'-2" A.F.F. SEE INTERIOR ELEVATIONS FOR REFERENCE

GENERAL POWER NOTES

1. ALL WORK MUST COMPLY WITH NEC, NFPA, LIFE SAFETY AND LOCAL APPLICABLE CODES.
2. ALL CONDUIT SHALL BE 3/4" EMT, MINIMUM.
3. ALL WIRE SHALL BE MINIMUM OF #12 THHN COPPER.
4. SEE ARCHITECTURAL DRAWINGS/ELEVATIONS FOR EXACT LOCATIONS OF ALL RECEPTACLES AND DEVICES.
5. VERIFY ALL OCCUPANCY SENSOR LOCATIONS. COORDINATE WITH MANUFACTURE'S INSTRUCTIONS AND FURNITURE LAYOUT IN THE SPACE TO ENSURE PROPER PLACEMENT
6. LIGHTING FIXTURES IN ACOUSTICAL CEILING TILE TO BE CENTERED IN TILE, UNLESS OTHERWISE NOTED.
7. CENTER EMERGENCY/EXIT LIGHTS ABOVE DOORS, UNLESS OTHERWISE NOTED.
8. ADJUST FOCUS OF ALL TRACK AND RECESSED DIRECTIONAL LIGHTING TO FULLY ILLUMINATE ALL ARTWORK, MENU BOARDS, AND MERCHANDISE BAYS.
9. IF EMERGENCY LIGHT, EXIT SIGN, OR NIGHT LIGHT IS SHOWN CIRCUITED TO A LOCALLY SWITCHED LIGHTING CIRCUIT, PROVIDE ADDITIONAL UNSWITCHED HOT (BYPASS ALL CONTRACTORS AS REQUIRED).
10. ALL CIRCUITS SHOWN SHALL BE FED FROM PANEL "A" UNLESS OTHERWISE NOTED.
11. ALL EXIT AND EMERGENCY LIGHTING TO BE ON BATTERY BACKUP.
12. VERIFY THAT EMERGENCY LIGHTING PROVIDES A MINIMUM OF 1.0 FOOT-CANDLES AT FLOOR.
13. ALL RECEPTACLES AND SWITCHES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE.
 - 13.1 FOYER, SEATING, HALL BLACK OUTLET, BLACK SWITCH, BLACK COVER PLATE.
 - 13.2 MECH. ROOM, OFFICE, RESTROOM & BELOW CASH REGISTER WHITE OUTLET, WHITE SWITCH & WHITE COVER PLATE.
 - 13.3 PREP & STAGING WHITE OUTLET, WHITE SWITCH & STAINLESS COVER PLATE.

CARBON MONOXIDE NOTE:

FIRST ALERT CARBON MONOXIDE DETECTOR DESIGNER SERIES C0910 OR APPROVED EQUAL (10 YEAR ALARM LIFE, END OF LIFE SIGNAL, NO BATTERY CHANGES FOR LIFE OF UNIT (3V LITHIUM POWER CELL)).

FOR ORDERING FROM FIRST ALERT VISIT - [HTTP://WWW.FIRSTALERTSTORE.COM/FUNDRISING/FIREHOUSE-SUBS.HTM](http://WWW.FIRSTALERTSTORE.COM/FUNDRISING/FIREHOUSE-SUBS.HTM)

SUPPLIED AND INSTALLED BY G.C. MUST BE CENTRALLY LOCATED AND CEILING MOUNTED WITHIN THE SPACE.

CONTACT E-MAIL: FIREHOUSESUBS@JACKSONELECTRICSUPPLY.COM
WEBSITE: WWW.FIREHOUSESUBSLIGHTING.COM

Type	MFR	MFR PART#	DESCRIPTION
A	ABL-Lithonia Lighting	EPANL 24 40L 40K	Lithonia 4350 Lumens 2X4 Flat Panel LED 40K
AEM	ABL-Lithonia Lighting	EPANL 24 40L 40K	Lithonia 4350 Lumens 2X4 Flat Panel LED 40K w/ EM external inverter
B-Drywall	ABL-Lithonia Lighting	EPANL 22 40L 40K DGA22	Lithonia 3500 Lumens 2X2 Flat Panel LED 40K
C-4	Juno	R4BL	Black 4 FT ALPHA TRACK SECTION JUNO
C-8	Juno	R8BL	Black 8 FT ALPHA TRACK SECTION JUNO
C-LIVE END FEED	Juno	RCLF11BL	LIVE END FEED JUNO
C-LEF BREAKER	Juno	TCL2BL	TRACK CIRCUIT BREAKER JUNO
D--	Juno	R512B-BL	Black Track Head w/ PAR30FL10/B/940/LED
EM1	Progress Lighting	PE012-30	EMER Dual Head fixture Battery Backup ALL EM LIGHTS
EX1 Remote Capable	Progress Lighting	PECUE-UR30-RC	EXIT/EMERGENCY LIGHT COMBO w/ REMOTE SINGLE HEAD CAP
REMOTE HEAD	Progress Lighting	PERHC-SG-OD-30	SINGLE REMOTE OUTDOOR EMERGENCY HEAD
F T5 LED	Select Lighting	HBA454M23MV WG	High Bay High Bay, 4L T5HO, MV MFR: Select Lighting With Wire Guard supplied with 4 T5 LED Lamps, Maxlite L27T5DF440-CG 27 watts ea 96 watts total
G	Seagull Lighting	651991S-21	Red Pendant Light LED

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