

Project Phase: Construction Documents

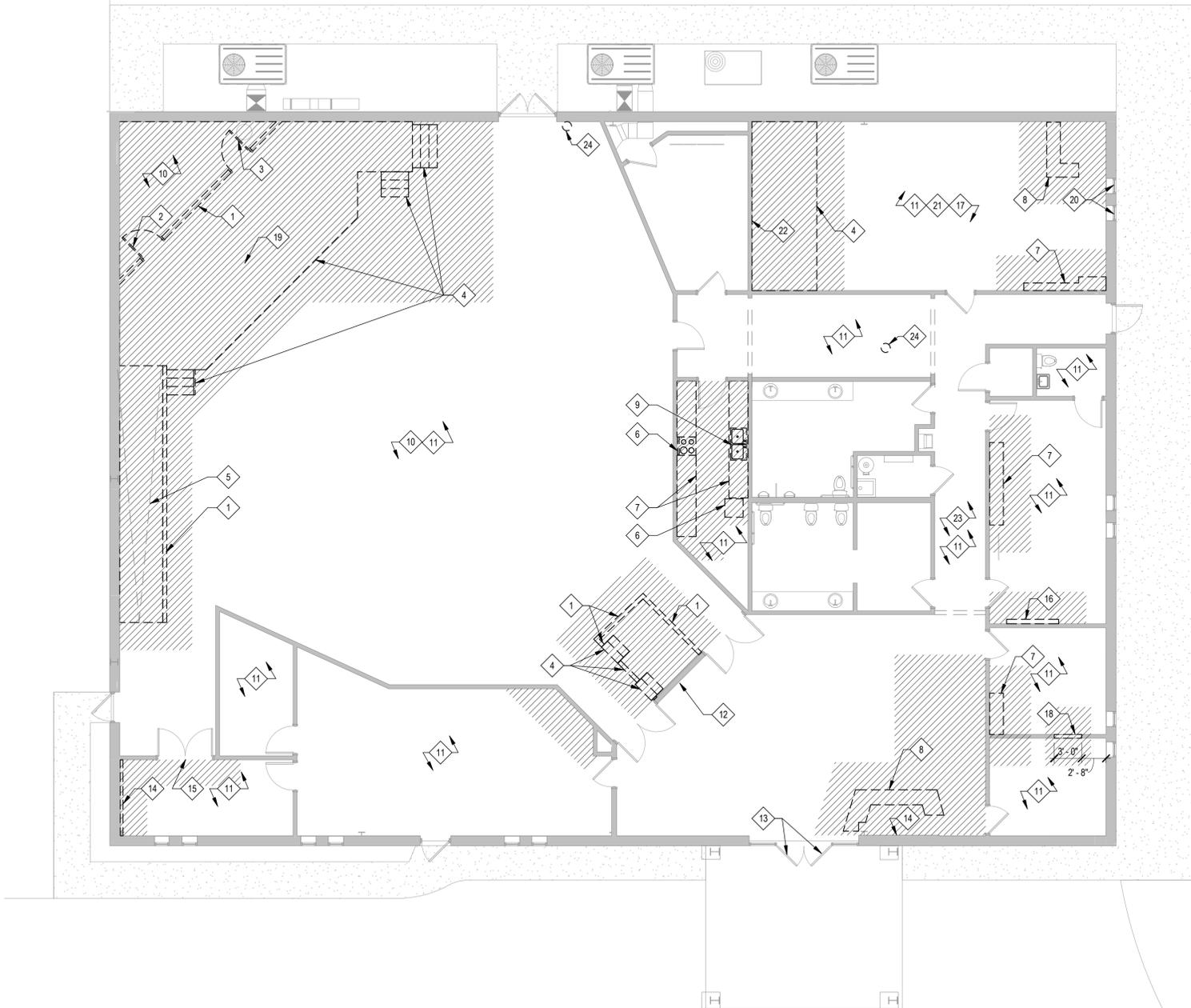
Issue Date: 07.31.2020		
Revisions		
No.	Description	Date
1	Revision 1	08.28.2020

Job Number: 20033

Demolition Plan

AD 1.1

- 1 REMOVE EXISTING WALLS TO EXTENT SHOWN, WHILE PROTECTING SURROUNDING FINISHES. DISPOSE OF WALL MATERIALS APPROPRIATELY.
 - 2 REMOVE AND DISCARD EXISTING DOOR, FRAME, AND ASSOCIATED HARDWARE. DISPOSE OF MATERIALS APPROPRIATELY
 - 3 REMOVE AND PRESERVE EXISTING DOOR, FRAME, AND ASSOCIATED HARDWARE. RELOCATED AS INDICATED BY OWNER.
 - 4 REMOVE EXISTING PLATFORM AND ALL ASSOCIATED COMPONENTS AND CONSTRUCTION, INCLUDING LOW WALLS, WHILE PROTECTING SURROUNDING FINISHES. PREPARE SUBFLOOR SURFACE FOR NEW FLOORING. DISPOSE OF MATERIALS APPROPRIATELY.
 - 5 REMOVE EXISTING RAMP AND ALL ASSOCIATED COMPONENTS AND CONSTRUCTION, WHILE PROTECTING SURROUNDING FINISHES. PREPARE SUBFLOOR SURFACE FOR NEW FLOORING. DISPOSE OF MATERIALS APPROPRIATELY.
 - 6 REMOVE AND PRESERVE EXISTING APPLIANCES AND ASSOCIATED ACCESSORIES. RELOCATE OR DISPOSE OF AS DIRECTED BY OWNER. CAP AND CONCEAL LINES AS NECESSARY.
 - 7 REMOVE AND PRESERVE EXISTING CABINETS, WHILE PROTECTING SURROUNDING FINISHES. DISCARD EXISTING COUNTERTOP. RELOCATE CABINETS AS SHOWN ON PLANS. IF NO NEW LOCATION IS SHOWN PRESERVE CABINETS AS DIRECTED BY OWNER
 - 8 REMOVE AND DISCARD EXISTING DESK AND ASSOCIATED COMPONENTS AND CONSTRUCTION, WHILE PROTECTING SURROUNDING FINISHES. DISPOSE OF MATERIALS APPROPRIATELY.
 - 9 REMOVE AND DISCARD EXISTING SINK AND ASSOCIATED ACCESSORIES AND PLUMBING COMPONENTS, WHILE PROTECTING SURROUNDING FINISHES. CAP AND CONCEAL LINES AS NECESSARY. DISPOSE OF MATERIALS APPROPRIATELY.
 - 10 REMOVE AND PRESERVE EXISTING LIGHTING FIXTURES. RELOCATE AS INDICATED ON A2.1.
 - 11 REMOVE EXISTING FLOOR FINISH MATERIAL WHILE PROTECTING SURROUNDING FINISHES. DISPOSE OF FLOOR FINISH MATERIAL APPROPRIATELY. PREPARE SUBFLOOR SURFACE FOR NEW FLOORING.
 - 12 REMOVE AND DISCARD EXISTING VINYL DECAL. PRIME WALL FOR NEW FINISH.
 - 13 REMOVE EXISTING ETCHING ON STOREFRONT, WHILE PROTECTING SURROUNDING FINISHES.
 - 14 REMOVE AND DISCARD EXISTING WOOD VENEER, WHILE PROTECTING SURROUNDING FINISHES. DISPOSE OF MATERIALS APPROPRIATELY. PATCH WALL / PROVIDE NEW GYPSUM BOARD AS REQUIRED TO MATCH ADJACENT WALLS.
 - 15 REMOVE EXISTING DECORATIVE WOOD LOCATED ABOVE DOOR OPENING, WHILE PROTECTING SURROUNDING FINISHES. DISPOSE OF WOOD APPROPRIATELY. PATCH WALL / PROVIDE NEW GYPSUM BOARD AS REQUIRED TO MATCH ADJACENT WALLS.
 - 16 REMOVE EXISTING CHANGING STATION, WHILE PROTECTING SURROUNDING FINISHES. PATCH WALL / PROVIDE NEW GYPSUM BOARD AS REQUIRED TO MATCH ADJACENT WALLS. DISPOSE OF CHANGING STATION APPROPRIATELY.
 - 17 REMOVE WALL SCONCES AND PATCH WALL / PROVIDE NEW GYPSUM BOARD AS REQUIRED TO MATCH ADJACENT WALLS. DISPOSE OF WALL SCONCES APPROPRIATELY.
 - 18 CUT IN WALL OPENING TO 7'-0" A.F.F. AT LOCATION AND TO EXTENT SHOWN ON PLAN, WHILE PROTECTING SURROUNDING FINISHES. DISPOSE OF WALL MATERIALS APPROPRIATELY.
 - 19 REMOVE AND PRESERVE EXISTING PROJECTOR SCREEN. RELOCATE AS DIRECTED BY OWNER.
 - 20 REMOVE BLACK OUT WINDOW TREATMENT WHILE PROTECTING SURROUNDING FINISHES. CLEAN WINDOWS.
 - 21 REMOVE AND DISCARD EXISTING BLACK CEILING TILES WHILE PROTECTING SURROUNDING FINISHES.
 - 22 REMOVE AND DISCARD EXISTING BRICK WALL COVERING, WHILE PROTECTING SURROUNDING FINISHES. DISPOSE OF MATERIALS APPROPRIATELY. PATCH WALL / PROVIDE NEW GYPSUM BOARD AS REQUIRED TO MATCH ADJACENT WALLS.
 - 23 REMOVE AND PRESERVE EXISTING WALL MOUNTED SIGNAGE WHILE PROTECTING SURROUNDING FINISHES. PATCH WALL / PROVIDE NEW GYPSUM BOARD AS REQUIRED TO MATCH ADJACENT WALLS. RELOCATE AS DIRECTED BY OWNER.
 - 24 REMOVE AND PRESERVE EXISTING FIRE EXTINGUISHER WHILE PROTECTING SURROUNDING FINISHES. RELOCATE AS SHOWN ON LS1.1.
- WORK AREA (LEVEL 2 AS DEFINED BY IEBC 301.3.2)

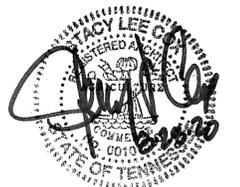


3 Demolition Legend
NTS

1. DEMOLITION PLAN(S) ARE ISSUED AS AN EXPLANATORY SUPPLEMENT TO INDICATE THE APPROXIMATE SCOPE OF PROPOSED DEMOLITION AND AS SUCH ALL CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES. DEMOLITION WORK WILL REQUIRE COORDINATION WITH PROPOSED ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING & ELECTRICAL SYSTEMS. THEREFORE DEMOLITION PLAN(S) MAY NOT REPRESENT OR INCLUDE ALL DEMOLITION REQUIRED. CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING OR CONSTRUCTION.
2. CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS.
3. EXISTING CONSTRUCTION TO REMAIN WITHIN AND SURROUNDING THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AS NECESSARY DURING DEMOLITION TO AVOID DAMAGE OR DESTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING ANY ITEMS DAMAGED OR DESTROYED THAT WERE NOT INDICATED AS PART OF THE SCOPE OF DEMOLITION.
4. REMOVE ALL INTERIOR CONSTRUCTION INDICATED BY KEYNOTES, EXCEPT WHERE SPECIFICALLY INDICATED TO REMAIN. REMOVAL SHALL INCLUDE, BUT NOT BE LIMITED TO: INTERIOR AND EXTERIOR WALLS, DOORS, PARTITIONS, SUSPENDED ACOUSTICAL CEILINGS, LIGHT FIXTURES, ELECTRICAL DEVICES, FIRE ALARM DEVICES, CONDUIT, ELECTRICAL PANEL BOARDS, SWITCHES, PLUMBING LINES, PLUMBING FIXTURES, MILLWORK, FLOOR FINISHES, WINDOW TREATMENTS, DUCTWORK AND ASSOCIATED MECHANICAL PIPING, FIXTURES AND CONTROLS.
5. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY SHOULD THE PRESENCE OF HAZARDOUS MATERIALS BE SUSPECTED OR IDENTIFIED DURING DEMOLITION ACTIVITIES.
6. DIMENSIONS SHOWN ARE APPROXIMATE DUE TO VARIATIONS IN EXISTING CONDITIONS, AND ARE GIVEN FOR REFERENCE ONLY.
7. THE CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO COMMENCEMENT OF DEMOLITION WORK ALL PROCEDURES (E.G. SCHEDULING OF ACTIVITIES, SHUTDOWNS, ETC.) AND LOCATION OF DUMPSTER FOR DISPOSAL OF ALL REMOVED ITEMS.
8. ANY DAMAGE TO OWNER'S PROPERTY DURING DEMOLITION OR CONSTRUCTION WILL BE REPAIRED PER SPECIFICATIONS, AT CONTRACTOR'S EXPENSE.
9. ANY EXISTING EQUIPMENT OR COMPONENT IN OR PERTAINING TO THE PREMISES THAT IS BEING ABANDONED MUST BE DEMOLISHED COMPLETELY AND PROPERLY REMOVED FROM THE PREMISES.
10. THE GENERAL CONTRACTOR SHALL COORDINATE WORK PERFORMED BY OTHER CONTRACTORS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE OWNER'S ATTENTION BEFORE PROCEEDING WITH WORK.
11. THE CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING CEILING OR FLOOR EXCEPT FOR THOSE AREAS SPECIFIED.

2 General Demolition Notes
NTS

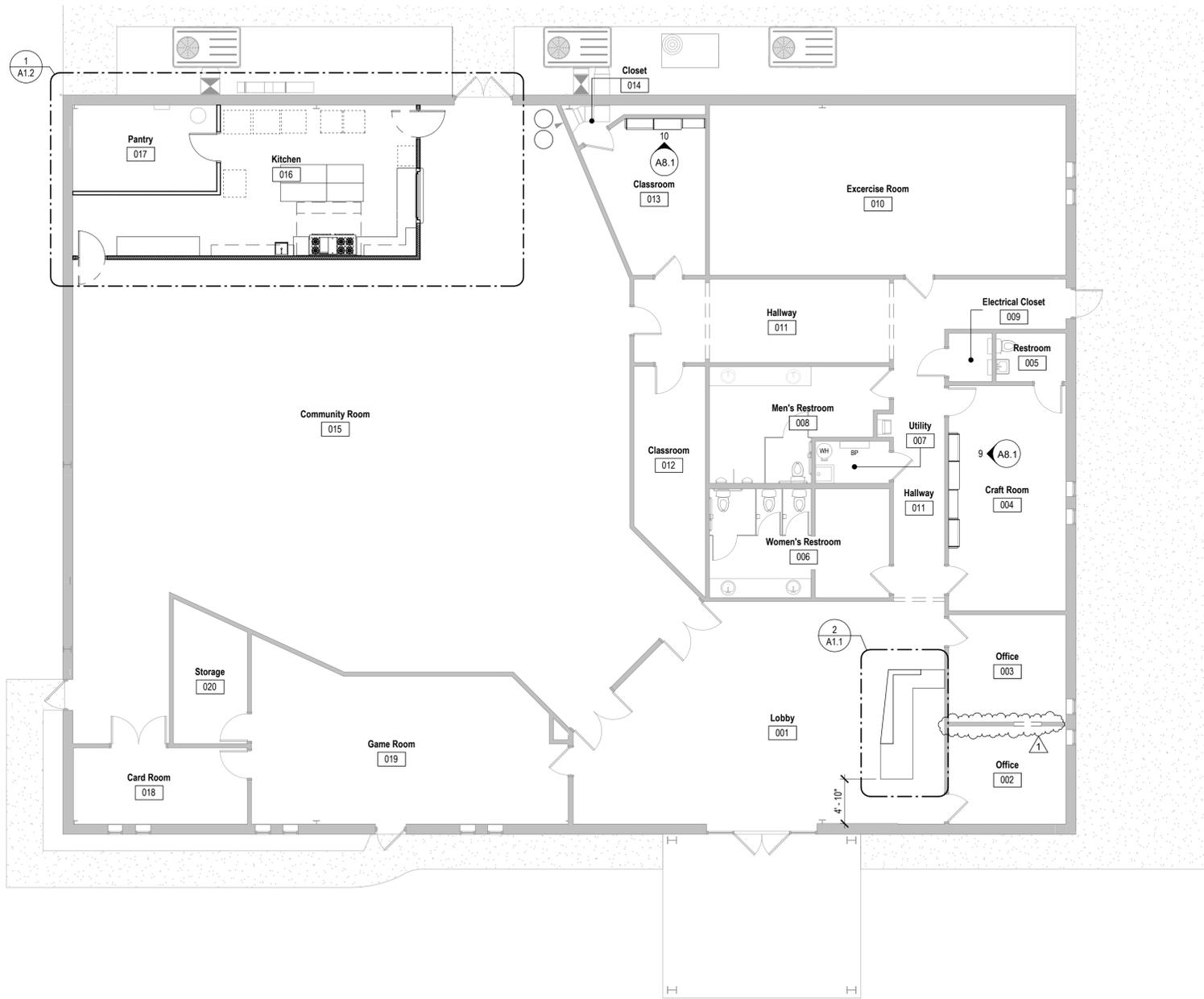
1 Demolition Plan
1/8" = 1'-0"



Project Phase: Construction Documents

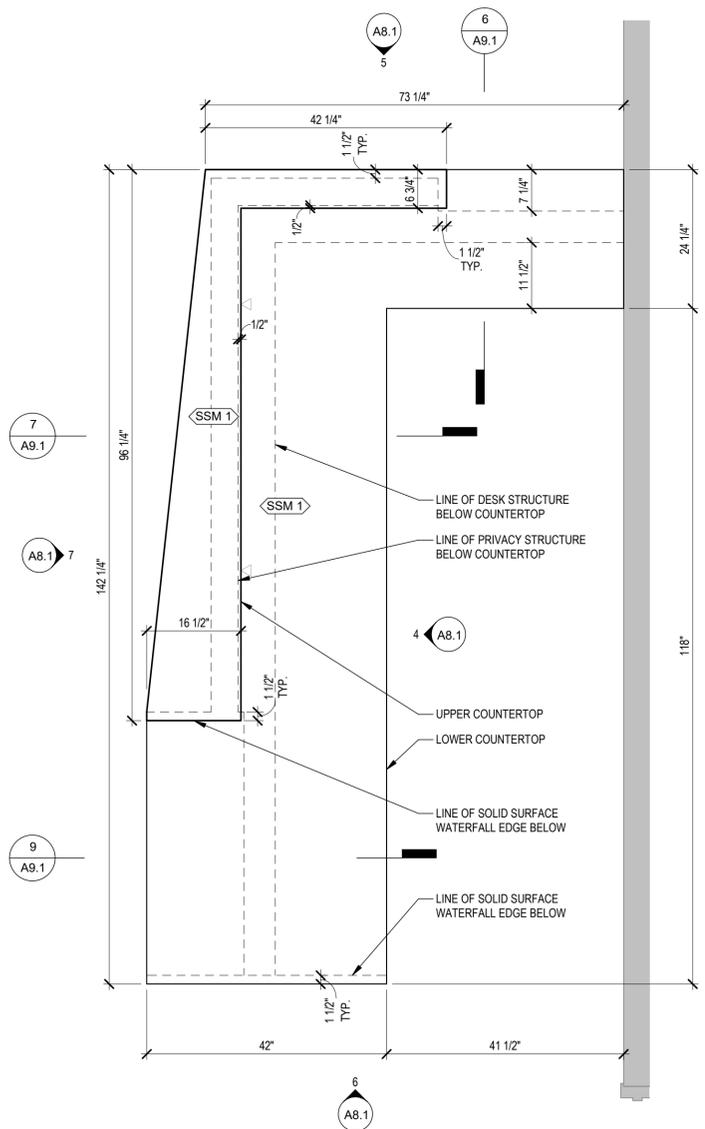
Issue Date: 07.31.2020		
Revisions		
No.	Description	Date
1	Revision 1	08.28.2020

Job Number: 20033
Floor Plan



- A** **Typical Sound Attenuating Partition (3-5/8" Metal Studs)**
5/8" GYPSUM BOARD ON BOTH SIDES OF 3 5/8" METAL STUDS AT 16" O.C. PROVIDE SOUND ATTENUATING INSULATION OF 42 STC OR BETTER IN CAVITY. EXTEND WALL ASSEMBLY TO 9'-6" A.F.F. PROVIDE MOISTURE-RESISTANT GYPSUM BOARD IF WALL FACE CONTAINS A PLUMBING FIXTURE, IS LOCATED IN A RESTROOM, OR IS WITHIN 2' OF A PLUMBING FIXTURE.
- B** **Typical Partition (3-5/8" Metal Studs)**
5/8" GYPSUM BOARD ON BOTH SIDES OF 3 5/8" METAL STUDS AT 16" O.C. EXTEND WALL ASSEMBLY TO 9'-6" A.F.F. PROVIDE MOISTURE-RESISTANT GYPSUM BOARD IF WALL FACE CONTAINS A PLUMBING FIXTURE, IS LOCATED IN A RESTROOM, OR IS WITHIN 2' OF A PLUMBING FIXTURE.
- C** **Infill Partition (Match Existing Adjacent)**
INFILL PARTITION TO MATCH EXISTING ADJACENT CONSTRUCTION.

3 Wall Type Legend
NTS



2 Enlarged Reception Desk Plan - Add Alternate 1
3/4" = 1'-0"

1 Floor Plan
1/8" = 1'-0"

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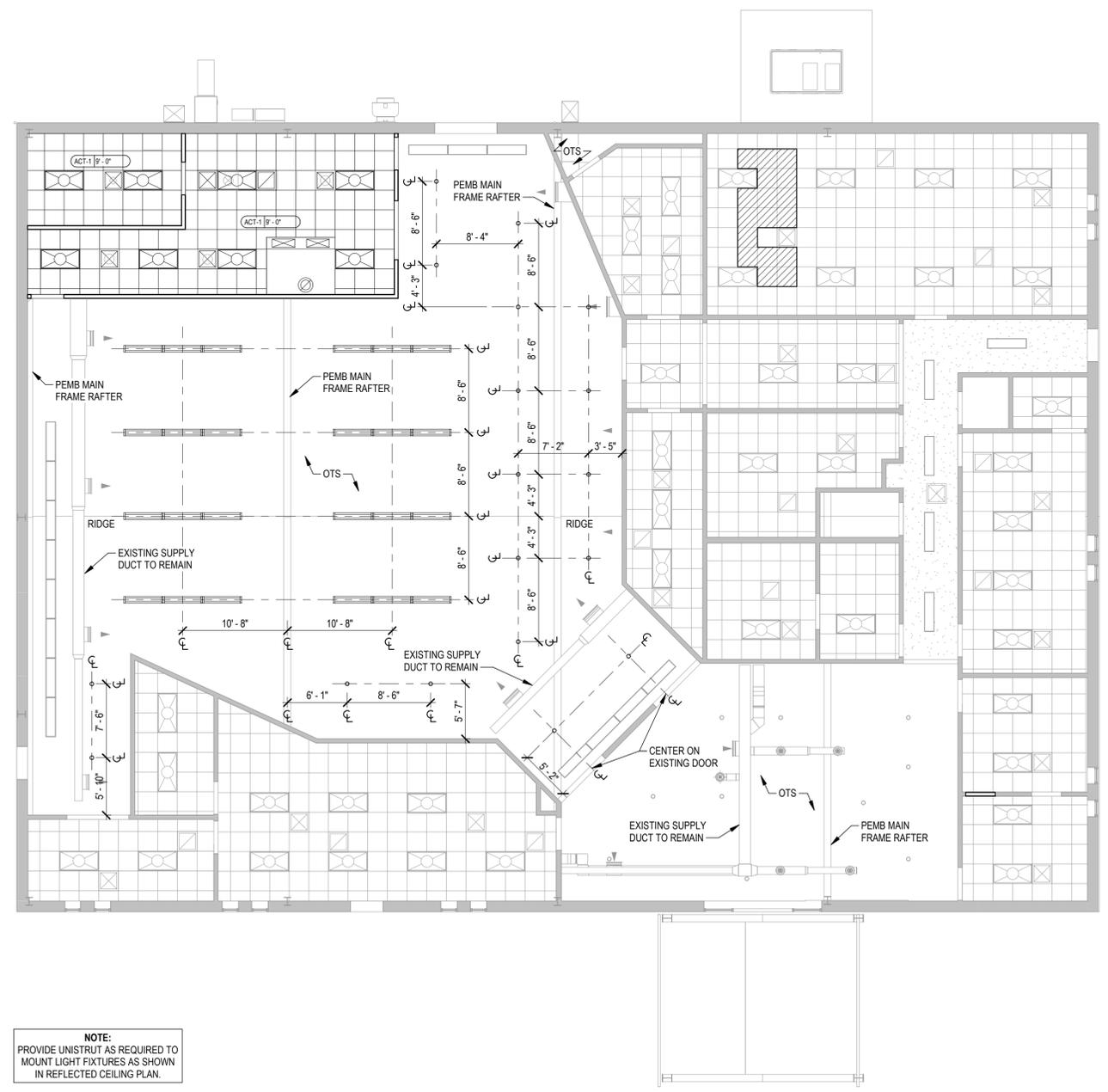
Project Phase: Construction Documents

Issue Date: 07.29.2020	
Revisions	
No.	Description

Job Number: 20033
 Reflected Ceiling Plan

EXISTING GYPSUM BOARD CEILING	EXISTING CYLINDRICAL CAN PENDANT (TYPE A FIXTURE - SEE 3/A2.1)	GYPSUM BOARD CEILING	2x2 SUPPLY DIFFUSER
EXISTING 2x2 ACOUSTICAL CEILING TILE	EXISTING SUPPLY DIFFUSER	2x2 ACOUSTICAL CEILING TILE	2x2 RETURN REGISTER
EXISTING 2x4 TROFFER	EXISTING RETURN REGISTER	2x4 LED RECESSED TROFFER (TYPE D FIXTURE - SEE 3/A2.1)	RELOCATED EXISTING CYLINDRICAL CAN PENDANT (TYPE A FIXTURE - SEE 3/A2.1)
EXISTING FLUORESCENT PENDANT (TYPE B FIXTURE - SEE 3/A2.1)		1x4 LED LINEAR PENDANT (TYPE C FIXTURE - SEE 3/A2.1)	REPLACE DEMOLISHED CEILING TILES WITH WHITE TILES TO MATCH EXISTING

2 Reflected Ceiling Plan Legend
 NTS



NOTE:
 PROVIDE UNISTRUT AS REQUIRED TO MOUNT LIGHT FIXTURES AS SHOWN IN REFLECTED CEILING PLAN.

1 Reflected Ceiling Plan
 1/8" = 1'-0"

TYPE MARK	LAMP	TEMP	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING HEIGHT	NOTES
A	LED	3500K	EXISTING BLACK PENDANT CYLINDER	EXISTING	EXISTING	EXISTING HEIGHT	CONTRACTOR TO INSTALL PAR38 LAMP W/ 40 DEGREE REFLECTOR
B	FLOURESCENT	3500K	EXISTING PENDANT MOUNTED 1x4	EXISTING	EXISTING	12'-0" AFF	--
C	LED	3500K	(3) 1x4 EXISTING PENDANT MOUNTED 1x4	LITHONIA LIGHTING	GRD LLP 12FT 80CRI 35K ID1500LMF 20/80 MIN10 ZT SCT F2/144A C210	12'-0" AFF	--
D	LED	3500K	LED LINEAR TROFFER	COLOMBIA LIGHTING	CBT24-LS35	FIXTURE TO ALIGN WITH SURROUNDING ACT	--

3 Lighting Fixture Schedule
 NTS

Finish Schedule											
Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Millwork		Ceiling Finish	Comments	Main Frame Finish	Ductwork Finish	Other Structure Finish
					Horizontal	Vertical					
001	Lobby	ETR	RUB 1	PNT 2, PNT 4	SSM 1	PLAM 1, PNT 3, TS 1	PNT 1	MILLWORK FINISHES ARE IN THE SCOPE OF ADD ALTERNATE 01.	PNT 5	PNT 3	PNT 3
002	Office	LVT 1	RUB 1	PNT 2	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
003	Office	LVT 1	RUB 1	PNT 2	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
004	Craft Room	LVT1, LVT 2	RUB 1	PNT 2	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
005	Restroom	LVT 1	RUB 1	PNT 2	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
006	Women's Restroom	ETR	RUB 1	PNT 2	ETR	ETR	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
007	Utility	ETR	ETR	ETR	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
008	Men's Restroom	ETR	RUB 1	PNT 2	ETR	ETR	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
009	Electrical Closet	ETR	ETR	ETR	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
010	Exercise Room	LVT 1, LVT 2	RUB 1	PNT 2, PNT 4	-	-	ETR	REPLACE DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
011	Hallway	LVT 1	RUB 1	PNT 2, PNT 4	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
012	Classroom	LVT 1	RUB 1	PNT 2	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
013	Classroom	ETR	RUB 1	PNT 2	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
014	Closet	ETR	RUB 1	PNT 2	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
015	Community Room	LVT 2	RUB 1	PNT 2, PNT 4	SSM 1	-	PNT 1	-	PNT 5	PNT 3	PNT 3
016	Kitchen	LVT 2	RUB 1	PNT 3	SSM 1	PLAM 1	ACT 1	-	-	-	-
017	Pantry	LVT 2	RUB 1	PNT 3	-	-	ACT 1	-	-	-	-
018	Card Room	LVT 1	RUB 1	PNT 2	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
019	Game Room	LVT 1	RUB 1	PNT 2	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-
020	Storage	LVT 1	RUB 1	PNT 2	-	-	ETR	REPLACE ANY DAMAGED OR MISSING CEILING TILES; MATCH EXISTING.	-	-	-

7 Finish Schedule
NTS

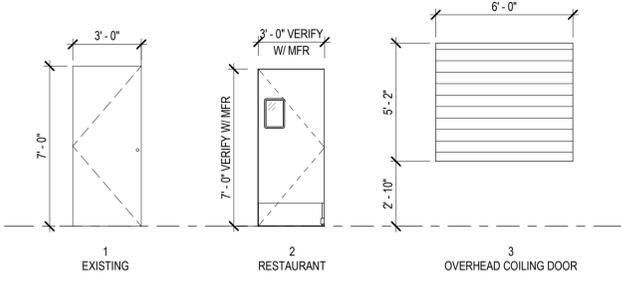
Finish Index										
Material Code	Material Name	Manufacturer	Collection	Product Number	Product Name	Size	Color Number	Color Name	Installation Method	Comments
ACT	ACOUSTIC CEILING TILE	ARMSTRONG	MINERAL FIBER & FIBERGLASS	-	-	24" x 24"	WH	WHITE	-	-
DR 1	DOORS - RESTAURANT	ELIASON	LIGHT DUTY RESTAURANT DOORS	ENG-1	TRAFFIC DOOR	SEE DOOR SCHEDULE	-	WILD CHERRY	-	-
DR 2	DOORS - OVERHEAD ROLLING	CORNELL	ROLLING COUNTER DOOR	ESC10	SEE DOOR SCHEDULE	SEE DOOR SCHEDULE	RAL 7012	-	BETWEEN JAMBS	COLOR IS A MFR-PROVIDED POWDER COATING
ETR	EXISTING TO REMAIN	-	-	-	-	-	-	-	-	-
LVT 1	LUXURY VINYL TILE	MANNINGTON	SPACIA FIRST 20	-	WOOD	6" x 36"	SP5W2494	RICH WALNUT	ASHLAR	CONTRACTOR TO PROVIDE LVT 1 FOR 900 SF IN ADDITION TO WHAT IS REQUIRED ON THE FINISH FLOOR PLAN.
LVT 2	LUXURY VINYL TILE	MANNINGTON	COLOR ANCHOR	-	GROOVE	18" x 18"	C118	COTTONTAIL	ASHLAR	CONTRACTOR TO PROVIDE LVT 2 FOR 120 SF IN ADDITION TO WHAT IS REQUIRED ON THE FINISH FLOOR PLAN.
PLAM 1	PLASTIC LAMINATE	FORMICA	ARTISAN FINISH	-	-	-	7011-43	AFRICAN LIMBA	-	-
PLAM 2	PLASTIC LAMINATE	FORMICA	MATTE FINISH	-	-	-	7197-58	DOVER WHITE	-	-
PNT 1	PAINT	SHERWIN WILLIAMS	-	-	-	-	SW 7008	ALABASTER	FLAT	FOR EXPOSED BAG INSULATION
PNT 2	PAINT	SHERWIN WILLIAMS	-	-	-	-	SW 7008	ALABASTER	SATIN	FOR MOST WALLS
PNT 3	PAINT	SHERWIN WILLIAMS	-	-	-	-	SW 7008	ALABASTER	SEMI-GLOSS	FOR KITCHEN AND BATHROOM WALLS AND EXPOSED SECONDARY STRUCTURE
PNT 4	PAINT	SHERWIN WILLIAMS	-	-	-	-	SW 7674	PEPPERCORN	SATIN	FOR MOST WALLS
PNT 5	PAINT	SHERWIN WILLIAMS	-	-	-	-	SW 7674	PEPPERCORN	SEMI-GLOSS	FOR EXPOSED PEMB MAIN FRAMES
PNT 6	PAINT	SHERWIN WILLIAMS	-	-	-	-	SW 6991	BLACK MAGIC	SEMI-GLOSS	FOR DOOR FRAMES
RUB 1	RUBBER BASE	JOHNSONITE / TARKETT	TRADITIONAL WALL BASE	-	-	4"	40	BLACK	PROVIDE PRE-FORMED CORNERS	-
SSM 1	SOLID SURFACE MATERIAL	CORIAN	SOLID SURFACE	-	-	-	-	DEEP CLOUD	-	-
TS 1	TACKABLE SURFACE	KOROSEAL	TAC-WALL	-	-	-	09	ONYX	-	-

6 Finish Index
NTS

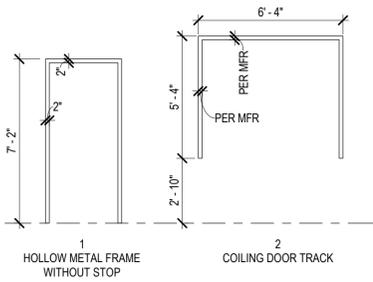
Door Schedule											
Door Number	Door			Door Material	Door Type	Door Finish	Frames		Frame Finish	Hardware	Notes
	Width	Height	Thickness				Frame Material	Frame Type			
16A	3'-0"	7'-0"	0' - 1 1/2"	SEE FINISH INDEX	2	DR 1	HM	1	PNT 6	PER MFR	PROVIDE HM FRAME WITHOUT STOP.
16B	3'-0"	7'-0"	0' - 1 1/2"	SEE FINISH INDEX	2	DR 1	HM	1	PNT 6	PER MFR	PROVIDE HM FRAME WITHOUT STOP.
16C	6'-0"	5'-2"	PER MFR	SEE FINISH INDEX	3	DR 2	ALUMINUM	2	DR 2	PER MFR	SILL HEIGHT TO BE AS SHOWN IN 10/A9.1.
17	3'-0"	7'-0"	0' - 1 3/4"	ETR	1	ETR	HM	1	PNT 6	ETR	REINSTALL EXISTING DOOR, JAMB, AND HARDWARE.

MFR TO PROVIDE CRANK OPERATION AND THUMB-TURN LOCK ON THE SIDE OF OVERHEAD DOOR FACING THE KITCHEN.

4 Door Types
1/4"=1'-0"



3 Door Frames
1/4"=1'-0"



5 Door Schedule
NTS

FINISH ABBREVIATIONS

A		P	
AFF	Above Finished Floor	PNT	Paint
ACT	Acoustical Ceiling Tile	PLAM	Plastic Laminate
		PWC	Plastic Wall Covering
B		PC	Polished Concrete
		POLY	Poly Resin
BBT	Bio-Based Tile	PT	Porcelain Tile
C		Q	
		QTZ	Quartz
CT	Ceramic Tile		
COM	Customer Owned Material		
CONC	Concrete (Sealed)	R	Rubber Base
CG	Corner Guard		
E		RUB	Rubber Base
		S	
EPXY	Epoxy	SHT-V	Sheet Vinyl
ETR	Existing To Remain	SHT-RUB	Sheet Rubber
G		SSM	Solid Surface
		SC	Stained Concrete
GYP	Gypsum Wall Board	SST	Stainless Steel
		SSF	Synthetic Stone
I		V	
		VCT	Vinyl Composition Tile
IB	Integral Base	VWC	Vinyl Wallcovering
		WMCT	Wire Management Cable Tray
L		W	
LVT	Luxury Vinyl Tile	WD	Wood
M			
MFR	Manufacturer		
O			
OFCI	Owner Furnished, Contractor Installed		
OFOI	Owner Furnished, Owner Installed		

2 Finish Abbreviations
NTS

- REFER TO GENERAL NOTES ON T.O.
- REFER TO A7.0 FOR FINISH SCHEDULE AND LEGEND.
- GENERAL CONTRACTOR AND/OR SUBCONTRACTOR TO VERIFY LEAD TIMES AT TIME OF BIDDING.
- GENERAL CONTRACTOR TO FIELD VERIFY EXISTING WALL, FLOOR, AND CEILING CONDITIONS PRIOR TO CONSTRUCTION. ALL WALL PREP, FLOOR PREP, AND REQUIRED ADDITIONAL PREP TO RECEIVE SPECIALTY FINISHES SHALL BE INCLUDED IN THE SCOPE OF WORK.
- GYPSUM BOARD CONTROL AND EXPANSION JOINTS ARE TO BE INSTALLED AS REQUIRED BY THE U.S. GYPSUM ASSOCIATION.
- DRYWALL SUBCONTRACTOR TO REFER TO MANUFACTURER'S RECOMMENDATIONS FOR LEVEL OF FINISH REQUIRED, TO RECEIVE SCHEDULED SPECIALTY FINISHES.
- ALL GRILLES / VENTS MOUNTED TO WALLS / SOFFITS & FASCIA TO BE PAINTED TO MATCH ADJACENT WALL OR CEILING COLOR, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS.
- ALL FLOOR TILE TO BE INSTALLED PER TCNA F128-12 AND TCNA EJ171 COORDINATE EXPANSION JOINT LOCATIONS PER STRUCTURAL DRAWINGS.
- ALL WALL TILE TO BE INSTALLED PER TCNA 1243-12.
- GROUT JOINTS SHALL BE 1/8" FOR RECTIFIED TILE OR 3/16" FOR CALIBRATED (NON-RECTIFIED) TILE.
- ALL TRANSITIONS TO OCCUR AT THE CENTERLINE OF THE DOOR UNLESS SHOWN OTHERWISE. ALL FLOOR TRANSITIONS TO BE LEVEL AND FLUSH.
- CONTRACTOR SHALL SUBMIT TO THIS OFFICE ACTUAL SAMPLES, IN DUPLICATE, OF EACH COLOR AND MATERIAL SELECTED BY THE DESIGNER FOR THE DESIGNER'S VERIFICATION AND APPROVAL NO LATER THAN TWO (2) WEEKS FROM DATE OF CONTRACT. SAMPLES SHALL BE PROPERLY LABELED BY PROJECT AND CODE.
- RESILIENT TILE FLOORING TO BE INSTALLED WITH STRIATIONS RUNNING IN THE SAME DIRECTION, UNLESS OTHERWISE NOTED.
- SHEET VINYL FLOORING TO BE INSTALLED WITH CHEMICALLY WELDED SEAMS. SEE SPECIFICATION MANUAL FOR MANUFACTURER RECOMMENDED SEAM SEALER. SEE SPECIFICATION MANUAL FOR INSTALLATION INSTRUCTIONS AT FLOOR DRAINS. THIS IS A NO WAX PRODUCT. AVAILABLE IN 6", 9", 12" WIDTHS. USE WIDEST WIDTH AS NECESSARY FOR LEAST AMOUNT OF SEAMING. SHEET VINYL SHALL BE QUARTER TURNED IN CORRIDORS TO AVOID EXCESSIVE SEAMING. CONSTRUCTION DETAIL LINE TO REPRESENT PROPOSED SEAM LOCATION.
- ANY LOCATION WHERE ACCENT WALL PAINT DOES NOT TERMINATE AT WALL CORNER WILL REQUIRE A GWB REVEAL.
- ALL COUNTERTOP SUPPORT BRACKETS SHALL BE PAINTED TO MATCH ADJACENT WALL.
- PAINT ALL SURFACES EXPOSED TO VIEW UNLESS FULLY FACTORY FINISHED OR NOTED/SCHEDULED OTHERWISE. CONTRACTOR SHALL CONTACT THE ARCHITECT IF THE FINISHING REQUIREMENTS OF A COMPONENT ARE UNCLEAR.

1 General Finish Notes
NTS



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p 865 523-5001 f 865 523-5003
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Anderson County
Senior Center
96 Mariner Point Drive
Clinton, Tennessee 37716



Project Phase: Construction Documents

Revisions		
No.	Description	Date
1	Revision 1	08.28.2020

Job Number: 20033

Door Schedule, Finish Index & Schedule

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SPECIFICATIONS

GENERAL

ALL WORK SHALL COMPLY WITH ALL STATE, CITY AND LOCAL CODES, RULES AND REGULATIONS. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND INSPECTIONS ASSOCIATED WITH THIS WORK, AND SHALL PAY ALL COSTS AND FEES INVOLVED.

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST RECOGNIZED PRACTICE IN THE FIELD CONCERNED. MANUFACTURED ITEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED DIRECTIONS, SPECIFICATIONS AND RECOMMENDATIONS.

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR EQUIPMENT INSTALLATION PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED SUCH THAT THEY ARE EASILY ACCESSIBLE AND SERVICABLE. THIS EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: PLUMBING FIXTURES, WATER HEATERS, EXPANSION TANKS, PUMPS, BACKFLOW PREVENTERS, VALVES, MIXING VALVES, THERMOMETERS, GAUGES, TRAP PRIMERS AND CLEANOUTS.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE FULL SET OF CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL & ELECTRICAL DRAWINGS (AS APPLICABLE) TO ENSURE ALL PLUMBING WORK IS COORDINATED WITH PHYSICAL CONDITIONS AND ALL OTHER TRADES.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL DRAWINGS TO ENSURE THERE IS ADEQUATE WALL THICKNESS SUCH THAT ALL PIPING, FIXTURE CARRIERS, WALL CLEANOUTS, WALL BOXES, WALL HYDRANTS AND ACCESS PANELS WILL FIT IN THE WALL SPACE. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF WALL SPACE IS INADEQUATE PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL OBTAIN EXACT WALL, FIXTURE, AND LAYOUT DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ROUGH-IN AND INSTALLATION DRAWINGS FOR ALL PLUMBING FIXTURES, KITCHEN EQUIPMENT AND OWNER FURNISHED EQUIPMENT (AS APPLICABLE), AND SHALL COORDINATE THE PLUMBING INSTALLATION PRIOR TO COMMENCING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NECESSARY VALVES, CONNECTIONS, TRAPS, ACCESS PANELS, UNIONS, ESCUTCHEONS, WATER HAMMER ARRESTORS, VACUUM BREAKERS, RELIEF VALVES, PIPE INSULATION, AND EQUIPMENT SPECIALTY DEVICES AS REQUIRED TO FACILITATE COMPLETE AND OPERATIONAL CONDITIONS WHICH ARE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

THESE DRAWINGS ARE DIAGRAMMATIC AND DO NOT REFLECT ALL POSSIBLE PHYSICAL CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND EXACT LOCATIONS OF EQUIPMENT AND FIXTURES. PROVIDE NECESSARY PIPING OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE, WORK OF OTHER TRADES, AND CONNECTION TO SITE UTILITIES (AS APPLICABLE).

COORDINATE THE ELECTRICAL REQUIREMENTS AND CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ISSUING SUBMITTALS OR PURCHASING EQUIPMENT.

UNLESS NOTED OTHERWISE, ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT. 2" SANITARY PIPING AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT.

DOMESTIC WATER PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

ALL DOMESTIC WATER PIPING SUBJECT TO FREEZING SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. CONDENSATE PIPING SUBJECT TO FREEZING WITHIN WALK-IN FREEZERS SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION.

IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVANIZED STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, OR SIMILAR MEMBERS LESS THAN 1 1/2" FROM THE NEAREST EDGE OF MEMBER, PIPE SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6.

PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED DETAILS AND SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE REQUIREMENTS OF THE COUNTY HEALTH DEPARTMENT AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION REGARDING CROSS CONNECTION CONTROL OR OBTAINING A FOOD SERVICE PERMIT (AS APPLICABLE). REPORT ANY OBSERVED DISCREPANCIES TO THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK.

CONTRACTOR SHALL CONFIRM PLUMBING FIXTURE FINISHES WITH THE ARCHITECTURAL SCHEDULES & DETAILS (AS APPLICABLE).

SUBMITTALS

FURNISH SHOP DRAWINGS FOR MANUFACTURED PRODUCTS. ALL ITEMS SHALL BE CLEARLY MARKED TO MATCH EQUIPMENT MARKS ON THE PLUMBING DRAWINGS. ALL OPTIONS MUST BE CLEARLY MARKED ON THE SUBMITTAL SHEET. A MODEL NUMBER LISTING ON A COVER SHEET IS NOT AN ACCEPTABLE SUBSTITUTE FOR MARKING THE ACTUAL SUBMITTAL SHEET. ELECTRICAL DATA FOR POWERED EQUIPMENT MUST BE INDICATED ON THE SUBMITTAL SHEET FOR THAT ITEM.

ALL ITEMS MUST BE SUBMITTED IN ONE PACKAGE AT THE SAME TIME, IN ELECTRONIC PDF FORMAT. SEPARATE SUBMITTALS FOR FIXTURES AND EQUIPMENT IS NOT ACCEPTABLE.

SUBMITTAL REVIEW IS CONSIDERED A GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND/OR ALTERNATE ARRANGEMENT OF THE EQUIPMENT WITHIN A GIVEN SPACE. WHEN SUBSTITUTED EQUIPMENT IS INSTALLED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION OR ADDITIONAL COST BROUGHT ON BY THE USE OF THIS EQUIPMENT.

HANGERS AND SUPPORTS

HANGERS SHALL BE COMPLETE WITH RODS AND SUPPORTS PROPORTIONED TO THE SIZE OF PIPE TO BE SUPPORTED, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SIZE HANGERS FOR INSULATED PIPING TO BEAR ON OUTSIDE OF INSULATION. PROVIDE INSULATION PROTECTORS AT HANGERS BEARING ON THE OUTSIDE OF INSULATION. PROVIDE A RIGID INSERT OR RIGID INSULATION AT EACH INSULATION PROTECTOR.

WHERE SEVERAL PIPES 2 1/2" AND SMALLER RUN PARALLEL AND IN THE SAME PLANE, THEY MAY BE SUPPORTED ON GANG OR MULTIPLE HANGERS. LARGER PIPING SHALL BE INDEPENDENTLY HUNG, RUN PARALLEL AND BE EQUALLY SPACED.

PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH IPC SECTION 308, AND SPACING OF HANGERS SHALL NOT EXCEED THE LIMITS SET FORTH IN TABLE 308.5. PIPES SHALL BE SUPPORTED WITHIN 1'-0" OF EACH ELBOW.

VERTICAL PIPE SUBJECT TO MOVEMENT SHALL BE SUPPORTED FROM THE WALL BY MEANS OF A PIPE CLAMP.

SUPPORT DOMESTIC WATER PIPING IN SPACES BEHIND PLUMBING FIXTURES BY BRACKETS AND U-BOLTS SECURED TO WASTE AND VENT STACKS. SIZE U-BOLTS TO BEAR ON THE PIPING.

AFTER HANGER RODS ARE INSTALLED IN FINISHED CONCRETE CEILING, FILL THE REMAINING OPENING WITH CEMENT SO THAT NO HOLE SHOWS AT THE CEILING.

WHERE COPPER PIPING IS USED, NONFERROUS METAL SUPPORT(S) OR PROPER ISOLATION BETWEEN DISSIMILAR MATERIALS SHALL BE PROVIDED.

PIPE HANGERS AND SUPPORTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS SET FORTH IN MANUFACTURER'S STANDARDIZATION SOCIETY STANDARD PRACTICES NO. SP-69 AND SP-58.

WASTE AND VENT PIPING SYSTEMS AND ACCESSORIES

SANITARY PIPING SHALL BE PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM.

PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D-1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D-1785 AND ASTM D-2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D-2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F-1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D-2564. PRIMER SHALL CONFORM TO ASTM F-656. BURIED PIPE SHALL CONFORM TO ASTM D-2321.

WASTE AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH THE GOVERNING CODES. AT A MINIMUM, WASTE PIPING SHALL BE TESTED WITH AT LEAST 10 FOOT OF WATER HEAD PRESSURE APPLIED. TESTING WITH AIR IS NOT ALLOWED.

ALL VENTS THROUGH ROOF SHALL BE LOCATED AT LEAST 10'-0" AWAY FROM ANY AIR INTAKE, EVAPORATIVE COOLER, OR ANY OTHER DEVICE THAT WOULD DRAW AIR FROM THE VENT. FLASH AROUND ALL PIPES PENETRATING THROUGH ROOF WITH STANDARD MANUFACTURED FLASHINGS. FLASHING SHALL BE SHEET METAL WITH RUBBER GASKETS AND SHALL EXTEND INTO ROOFING AND UP PIPE DISTANCES IN ACCORDANCE WITH THE LOCAL CODE.

NO DOUBLE COMBINATION FITTINGS MAY BE UTILIZED IN THE HORIZONTAL.

WHERE TWO HORIZONTAL PIPES (BACK-TO-BACK WATER CLOSETS OR TWO SANITARY BRANCHES) COMBINE IN THE VERTICAL, A DOUBLE COMBINATION WYE EIGHTH BEND FITTING SHALL BE INSTALLED. DOUBLE SANITARY TEE OR SANITARY CROSS IS NOT ACCEPTABLE.

SPECIFICATIONS

SLEEVES

SLEEVES SHALL BE PROVIDED WHERE PIPES PASS THROUGH WALLS, FLOORS AND ROOFS. PROVIDE STANDARD WEIGHT STEEL SLEEVES IN CONCRETE AND MASONRY CONSTRUCTION, PROVIDE 26GA GALVANIZED SHEET METAL SLEEVES IN INTERIOR DRYWALL CONSTRUCTION. SLEEVES SHALL BE THE FULL THICKNESS OF WALLS AND SHALL ALLOW FOR THE FULL THICKNESS OF PIPE INSULATION, WHERE APPLICABLE.

SLEEVES MAY BE OMITTED WHEN OPENINGS ARE CORE DRILLED FOR CONCEALED VERTICAL AND HORIZONTAL PIPING. SLEEVES ARE NOT REQUIRED AT INDIVIDUAL PLUMBING FIXTURES OR IN CONCRETE FLOOR SLABS ON GRADE, UNLESS OTHERWISE NOTED.

SLEEVES FOR ALL PIPING PENETRATING FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH 3M PIPE BARRIER NO. CP-25 FIRE PROOFING CAULKING, OR EQUAL, IN ANNULAR SPACE BETWEEN SLEEVE AND PIPING. CONTRACTOR SHALL VERIFY THE RATING OF THE WALL AND CONFIRM THE PENETRATION PROTECTION PROVIDED MEETS THAT RATING.

PENETRATIONS THROUGH OUTSIDE WALLS SHALL BE WATERTIGHT. CAULK BETWEEN PLUMBING PIPE AND SLEEVE. PACK WITH FIBERGLASS AND CAULK, 1" DEEP AT EACH FACE WITH NON-HARDENING SEALANT BETWEEN PIPE AND SLEEVE.

DOMESTIC WATER SYSTEMS AND ACCESSORIES

WATER PIPING ABOVE SLAB: TYPE L' HARD DRAWN COPPER TUBING, ASTM B88, WROUGHT SOLDER JOINTS, ANSI B1 G.22.

WATER PIPING BELOW SLAB: TYPE K SOFT DRAWN COPPER TUBING, WITH NO JOINTS BELOW SLAB, ASTM B88.

ALL DOMESTIC HOT WATER PIPING SHALL HAVE A MINIMUM PRESSURE RATING OF 100PSI AT 180°F.

DOMESTIC WATER PIPING SHALL BE TESTED IN ACCORDANCE WITH ALL GOVERNING CODES. PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

BALL VALVES SHALL BE TWO-PIECE BRONZE BODY, LARGE PORT WITH SOLID, SMOOTH BORE CHROME PLATED BRASS BALL. SEATS SHALL BE REINFORCED TFE WITH TEFLON PACKING RING AND THREADED ADJUSTABLE PACKING NUT. PROVIDE STEM EXTENSION AS NEEDED TO PROVIDE HANDLE ON OUTSIDE OF PIPE INSULATION. VALVES SHALL BE APOLLO 70 OR EQUAL.

BACKFLOW PREVENTERS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS FOR EASE OF TESTING AND SERVICING. FOR BACKFLOW PREVENTERS WITH VENT CONNECTIONS, ROUTE VENT LINE TO NEAREST DRAIN AND DISCHARGE WITH AIR GAP. BACKFLOW PREVENTERS SHALL BE TESTED IN ACCORDANCE WITH IPC 312.10.2. CONTRACTOR SHALL PROVIDE CERTIFICATIONS THAT STATE DEVICES HAVE BEEN TESTED AND APPROVED.

THERMOMETERS SHALL BE 9° ADJUSTABLE ANGLE, 30"-180° RANGE (TERRICE BX9 OR EQUAL). PRESSURE GAUGES SHALL BE 4 1/2" DIAL SIZE, 0-160PSI (TERRICE 600CB OR EQUAL).

CONTRACTOR SHALL FIELD VERIFY INCOMING DOMESTIC WATER PRESSURE. WHERE PRESSURE EXCEEDS 80PSI, PROVIDE PRESSURE REGULATING VALVE (WATTS LF223) AND UPSTREAM STRAINER (WATTS L5F777).

CONTRACTOR SHALL FIELD COORDINATE LOCATION OF ACCESSIBLE ISOLATION VALVES ON DOMESTIC HOT & COLD WATER SUPPLIES TO FIXTURES OR GROUPS OF FIXTURES SUCH THAT THEY MAY BE SHUT OFF FOR SERVICING. SERVICE AND HOSE BIBB VALVES SHALL BE IDENTIFIED. ALL OTHER VALVES INSTALLED IN LOCATIONS THAT ARE NOT ADJACENT TO THE FIXTURE(S) SHALL BE IDENTIFIED, INDICATING THE FIXTURE(S) SERVED.

INSULATION

INSULATE ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING IN ACCORDANCE WITH IECC TABLE C403.2.10. PIPE UP TO 1 1/4": 1" THICK INSULATION. PIPE 1 1/2" OR LARGER: 1 1/2" THICK INSULATION

INSULATE ALL HORIZONTAL COLD WATER PIPING LOCATED ABOVE CEILING, VERTICAL PIPING LOCATED IN AN EXTERIOR WALL, EXPOSED PIPING (I.E. MECH ROOMS). PIPE UP TO 1": 1/2" THICK. PIPING 1 1/4" AND OVER: 1" THICK INSULATION.

ALL JOINTS SHALL BE SEALED WITH MATCHING VAPOR BARRIER TAPE.

INSULATION SHALL HAVE A K-FACTOR (AVERAGE THERMAL CONDUCTIVITY) NOT TO EXCEED 0.27 BTU-IN/HR x SQFT x °F.

NATURAL GAS SYSTEMS AND ACCESSORIES

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE LOCAL GAS UTILITY PROVIDER TO CONFIRM THE AVAILABILITY OF THE INDICATED DESIGN DELIVERY PRESSURE PRIOR TO COMMENCING WORK.

ALL GAS PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE INTERNATIONAL FUEL GAS CODE AND NFPA 54.

GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL (ASTM A53/A53M). FITTINGS SHALL BE ASME B1 G.3 MALLEABLE IRON OR ASTM A234/A234M WROUGHT STEEL WELDING TYPE. JOINTS SHALL BE THREADED OR WELDED TO ASME B31.1.

ALL GAS FIRED APPLIANCES ARE PROVIDED WITH A GAS PRESSURE OF 7" W.C. AT FINAL EQUIPMENT CONNECTION. IF 7" W.C. EXCEEDS EQUIPMENT'S SPECIFIC INLET PRESSURE REQUIREMENT, CONTRACTOR SHALL PROVIDE APPROPRIATE PRESSURE REGULATING VALVE.

GAS PIPING ON ROOF SURFACES SHALL BE ELEVATED NO LESS THAN 3 1/2" INCHES ABOVE ROOF SURFACE AND SHALL BE CLAMPED TO RUBBER CHANNEL SUPPORTS (MIFAB C10 SERIES OR EQUAL). PROVIDE SUPPORT AT EVERY ELBOW. THE MAXIMUM SPACING OF SUPPORTS SHALL BE: 1/2" PIPE: 5'-0", 3/4" TO 1 1/4" PIPING: 6'-0", 1 1/2" AND LARGER: 12'-0". VERTICAL PIPING SHALL BE SUPPORTED AT BASE, TOP AND AT 10' INTERVALS (MINIMUM).

ALL EXTERIOR GAS PIPING SHALL BE PRIMED AND PAINTED O.S.H.A. YELLOW ON ROOF OR PAINTED TO MATCH BUILDING'S EXTERIOR WALLS WHERE VISIBLE.

EXPOSED GAS PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED 'GAS' IN BLACK LETTERS. ALL PIPING GREATER THAN 7" W.C. SERVICE PRESSURE SHALL BE IDENTIFIED BY A YELLOW LABEL WITH BLACK LETTERS INDICATING THE PIPING SYSTEM PRESSURE. THE SYSTEM SHALL BE MARKED AT THE BEGINNING, ALL ENDS AND AT INTERVALS NOT EXCEEDING 5 FEET ALONG ITS EXPOSED LENGTH.

BALL VALVES: THREE PIECE BODY, FULL PORT, CHROME PLATED BALL, BLOWOUT PROOF STEM, TFE SEATS, UL LISTED FOR FLAMMABLE LIQUIDS, 600 PSI WOG, THREADED ENDS.

PRESSURE REGULATOR VALVE: SINGLE STAGE AND SUITABLE FOR NATURAL GAS, STEEL JACKET AND CORROSION RESISTANT COMPONENTS, THREADED FOR REGULATORS NPS 2 AND SMALLER. PROVIDE SHUTOFF VALVE IMMEDIATELY AHEAD OF REGULATOR, AND INSTALL TEST PORTS ON EITHER SIDE REGULATOR, WITH UPSTREAM TEST PORT DOWNSTREAM OF SHUTOFF VALVE. REGULATORS SHALL BE INSTALLED PER IFGC SECTION 410. FOR 2PSI INLET, PROVIDE MAXITROL 325-L SERIES. PROVIDE VENT PROTECTOR FOR EXTERIOR APPLICATIONS. FOR INTERIOR APPLICATIONS, VENT SHALL BE PIPED TO THE EXTERIOR WITH TURNDOWN AND SCREEN PROTECTOR.

SHUTOFF VALVES SHALL BE PROVIDED IN ACCORDANCE WITH IFGC 409. INSTALL MANUAL GAS SHUTOFF VALVE FOR EACH GAS APPLIANCE AHEAD OF CORRUGATED STAINLESS STEEL TUBING OR COPPER CONNECTOR. SHUTOFF SHALL BE WITHIN 6' OF APPLIANCE.

INSTALL UNIONS IN PIPES NPS 2 AND SMALLER, ADJACENT TO EACH VALVE, AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT.

ALL NATURAL GAS PIPING INSTALLED BENEATH THE BUILDING SLAB SHALL BE ENCASED IN WROUGHT IRON CONDUIT. PIPING SHALL BE PROTECTED AND INSTALLED ACCORDING TO THE INTERNATIONAL FUEL GAS CODE SECTION 404.14.

TANK TYPE WATER HEATERS

WATER HEATERS SHALL BE U.L. LISTED AND SHALL MEET OR EXCEED THE STANDBY LOSS REQUIREMENTS OF U.S. DEPT. OF ENERGY AND CURRENT EDITION OF ASHRAE/IESNA 90.1.

WATER HEATERS SHALL HAVE 150PSI WORKING PRESSURE AND BE EQUIPPED WITH EXTRUDED HIGH DENSITY ANODE ROD AND HIGH TEMPERATURE CUTOFF SWITCH. WATER HEATERS SHALL BE THERMOSTATICALLY CONTROLLED AND SET TO 120° UNLESS OTHERWISE NOTED. WATER HEATERS SHALL BE INSTALLED ON SUSPENDED PLATFORM, STEEL STAND OR CONCRETE PAD, AS INDICATED ON DRAWINGS.

WATER HEATERS SHALL HAVE A MINIMUM 3 YEAR LIMITED WARRANTY.

WATER HEATERS SHALL BE INSTALLED LEVEL AND PLUMB. FIELD COORDINATE EXACT WATER HEATER LOCATION. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES, AND INSTALL SUCH THAT CONTROLS AND DEVICES ARE ACCESSIBLE FOR SERVICING.

INSTALL SHUTOFF VALVES IN COLD WATER INLET AND HOT WATER OUTLET. INSTALL THERMOMETER ON HOT WATER OUTLET. WATER HEATER SHALL HAVE ASME RATED COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE IN TOP PORTION OF TANK (FACTORY OR FIELD INSTALLED). PIPE RELIEF VALVE OUTLET TO FLOOR DRAIN, MOP SINK, INDIRECT WASTE RECEPTOR OR TO EXTERIOR. MAINTAIN CONTINUOUS DOWNWARD PITCH TOWARD DISCHARGE LOCATION, AND PROVIDE AIR GAP AT DISCHARGE LOCATION. WHERE WATER HEATER DRAIN PAN IS INDICATED ON PLANS, ROUTE DRAIN TO SAME LOCATION AS RELIEF VALVE AND DISCHARGE WITH AIR GAP.

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Project Phase: Construction Documents

Issue Date: 07.31.2020		
Revisions		
No.	Description	Date

Job Number: 20033

SPECIFICATIONS

P0.1

Date: 7/30/2020 1:34:05 PM Checked By: TW
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ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	HWR	HOT WATER RETURN
AC	ABOVE CEILING	IMB	ICE MACHINE BOX
AF	ABOVE FLOOR	IE	INVERT ELEVATION
AFF, AFG	ABOVE FINISHED FLOOR/GRADE	L, LAV	LAVATORY
BF	BELOW FLOOR	MBH	1000 BTU/HR
BFP	BACKFLOW PREVENTER	MS	MOP SINK
B/G	BELOW GRADE	MV	MIXING VALVE
CD	CONDENSATE DRAIN	O/H	OVERHEAD
CONT	CONTINUATION	G	NATURAL GAS
CW	COLD WATER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	RP	RECIRCULATION PUMP
ET	EXPANSION TANK	S, SAN	SANITARY
EWC	ELECTRIC WATER COOLER	SH	SHOWER
ex.	EXISTING	SK	SINK
FCO	FLOOR CLEANOUT	TP	TRAP PRIMER
FD	FLOOR DRAIN	TYP	TYPICAL
FHB	FREEZEPROOF HOSE BIBB	UR	URINAL
F5	FLOOR SINK	V	VENT
FWH	FREEZEPROOF WALL HYDRANT	VTR	VENT THROUGH ROOF
GCO	GRADE CLEANOUT	WC	WATER CLOSET
GI	GREASE INTERCEPTOR	W.C.	WATER COLUMN
HB	HOSE BIBB	WCO	WALL CLEANOUT
HD	HUB DRAIN	WHA	WATER HAMMER ARRESTER
HW	HOT WATER	WMB	WASHING MACHINE BOX

LEGEND

=====	COLD WATER PIPE
=====	HOT WATER PIPE
=====	HOT WATER RETURN PIPE
===== FW =====	FILTERED WATER PIPE
===== F =====	FIRE SPRINKLER PIPE
===== G =====	NATURAL GAS PIPE
=====	SANITARY PIPE
===== GW =====	GREASE WASTE PIPE
===== IW =====	INDIRECT WASTE PIPE
===== OW =====	OIL WASTE PIPE
===== EST =====	EMERGENCY STORM PIPE
===== ST =====	STORM PIPE
=====	VENT PIPE
-----	PIPING B/F

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	WASTE RUNOUT	WASTE CONN.	VENT	WATER RUNOUT		WATER CONN.		SPECIFICATION
					CW	HW	CW	HW	
FD-1	FLOOR DRAIN - KITCHEN	3"	3"	2"	---	---	---	---	KITCHEN AREA DRAIN (J.R. SMITH #2005) WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD & 7" ROUND NICKEL BRONZE STRAINER. PROVIDE SQUARE STRAINER FOR TILE APPLICATIONS. PROVIDE ASSE 1072 TRAP SEALER (ZURN Z1072).
HD-1	HUB DRAIN	see plan	see plan	---	---	---	---	---	SIoux CHIEF 832 SERIES ADJUSTABLE HUB DRAIN FIXTURE, PROVIDE STAINLESS STEEL MESH DEBRIS BASKET.
F5-1	FLOOR SINK	3"	3"	2"	---	---	---	---	CAST IRON FLOOR SINK WITH ACID RESISTANT COATED INTERIOR AND BOTTOM DOME STRAINER (J.R. SMITH 3140), 6" DEEP. COORDINATE 1/2 OR 3/4 GRATE WITH INDIRECT WASTE PIPING.
FCO	FLOOR CLEANOUT	see plan	see plan	---	---	---	---	---	FLOOR CLEANOUT WITH CAST IRON BODY AND ADJUSTABLE NICKEL BRONZE TOP (J.R. SMITH 4031). CLEANOUT SIZE SHALL MATCH LINE SIZE.
MV-1	MIXING VALVE (POINT OF USE)	---	---	---	1/2"	1/2"	3/8"	3/8"	POINT-OF-USE THERMOSTATIC MIXING VALVE (LEONARD #170-LF) WITH INTEGRAL INLET CHECK VALVES, TEMPERATURE ADJUSTMENT KNOB WITH LOCK SCREW, LEAD FREE. ASSE STANDARD 1070. MINIMUM FLOW 0.25 GPM, 5 PSI DROP @ 1.7 GPM.
BFP-1	BACKFLOW PREVENTER	---	---	---	1/2"	---	1/2"	---	BACKFLOW PREVENTER WITH DUAL CHECK VALVES, ATMOSPHERIC VENT AND INTEGRAL STRAINER, LEAD FREE. FOR 3/8" EQUIPMENT CONNECTIONS, PROVIDE WATTS SD-3 (ASSE 1022). FOR 1/2" OR GREATER CONNECTION, PROVIDE WATTS LFO09-QT (ASSE 1013).
ET-1	POTABLE WATER EXPANSION TANK	---	---	---	3/4"	---	3/4"	---	LEAD-FREE POTABLE WATER EXPANSION TANK (WATTS PLT-5). 2.1 GALLONS TOTAL VOLUME, 0.8 GALLONS MAXIMUM ACCEPTANCE VOLUME. TANK SHALL BE PRE-CHARGED TO THE SYSTEM PRESSURE PRIOR TO INSTALLATION (CONTRACTOR TO FIELD-VERIFY).

ELECTRIC WATER HEATER SCHEDULE

MARK	TANK CAPACITY	RECOVERY	SETPOINT	ELECTRICAL	BASIS	TYPE
WH-1	50 GAL	54 GPH @ 90° RISE	140°	12.0 KW	A.O. SMITH DEN-52	TALL

PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY THE APPROPRIATE ELECTRICAL CHARACTERISTICS OF THE SELECTED WATER HEATER. COORDINATE DIRECTLY WITH THE ELECTRICAL CONTRACTOR AND THE POWER PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS.

GREASE INTERCEPTOR CALCULATIONS (GI-1)

CALCULATIONS BASED ON PLUMBING DRAINAGE INSTITUTE'S STANDARD PDI-G101, TABLE B.3.2 "PROCEDURE FOR SIZING GREASE INTERCEPTORS" (REV. APR 2015)

18	20	18	QTY=3	THREE COMPARTMENT SINK	18 x 20 x 18 x 3 =	19440 CU IN	
TOTAL VOLUME (CU IN)					19440 CU IN		
TOTAL VOLUME (GAL)					19440 CU IN X (1 GAL/231 CU IN) =		84 GAL
TOTAL DRAINAGE VOLUME (75% FULL)					84 GAL X 0.75 =		63 GAL
FLOWRATE (2 MINUTE DRAINAGE PERIOD)					63 GAL / 2 MIN =		32 GPM
.5 GPM	QTY=1	HAND SINK			PEAK FLOWRATE: .5 GPM		
TOTAL PEAK FLOW					32.1 GPM		

SELECT PDI SIZE '35': 35GPM, 70 LB CAPACITY GREASE INTERCEPTOR

SPECIFICATION: ZURN 'GT2700-35.' ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL GREASE INTERCEPTOR. PDI RATED AT FLOWRATE AND CAPACITY LISTED ABOVE, WITH INTERNAL AIR RELIEF BYPASS, BRONZE CLEANOUT PLUG AND VISIBLE DOUBLE WALL TRAP SEAL WITH REMOVABLE PRESSURE EQUALIZING/FLOW DIFFUSING INLET BAFFLE, FIXED BOTTOM OUTLET BAFFLE, AND VISIBLE DOUBLE WALL TRAP SEAL. GASKETED NON-SKID SECURED COVER WITH CENTER TIE DOWN ASSEMBLY, COMPLETE WITH EXTERNAL FLOW CONTROL FITTING. 'PDI' CERTIFICATION SHALL BE VISIBLE OUT THE OUTSIDE OF THE INTERCEPTOR. WHEN SHOWN ON PLAN AS RECESSED INSTALLATION, PROVIDE RECEIVER (-RE).



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No.	Description	Date

Job Number: 20033
 SCHEDULES, LEGEND & ABBREVIATIONS

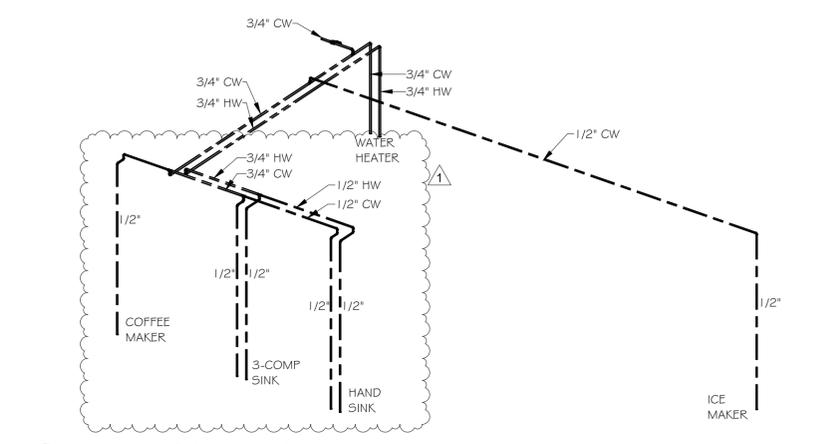
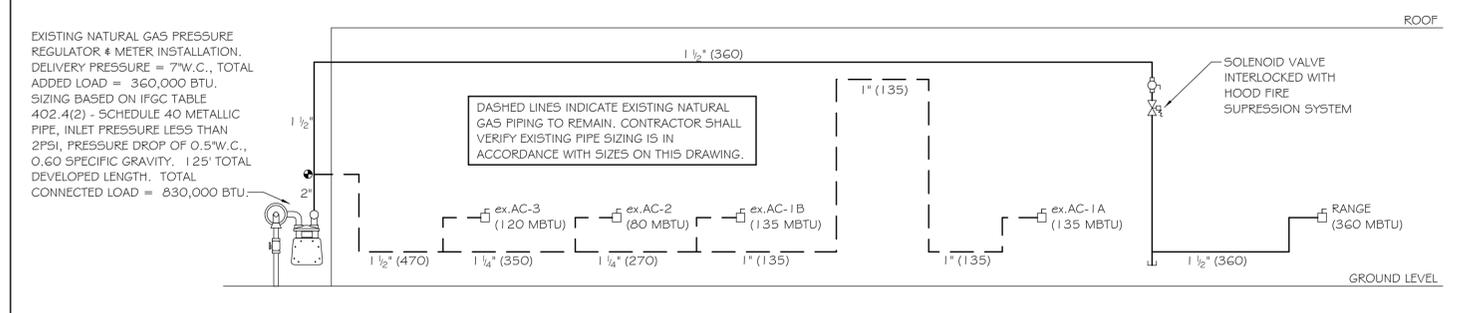
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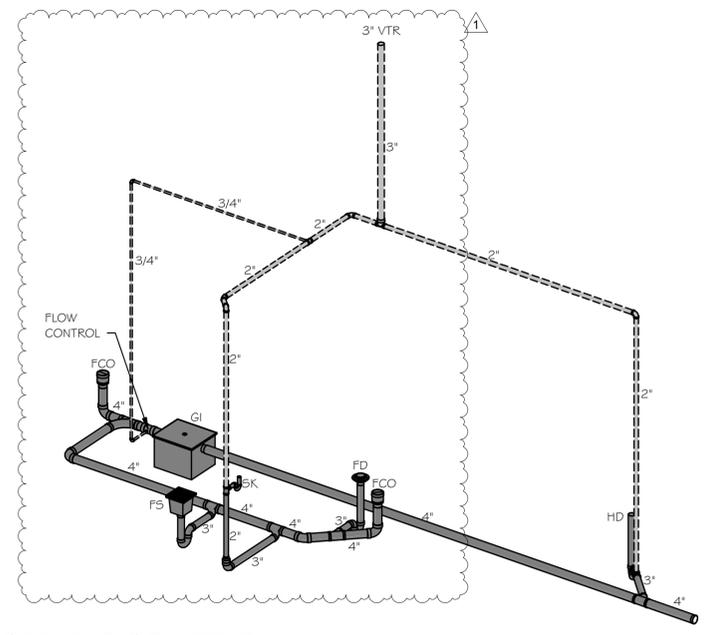
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NATURAL GAS RISER DIAGRAM

NO SCALE



2
P0.4
N.T.S.



1
P0.4
N.T.S.

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Revisions		
No.	Description	Date
1	Revision 1	08.28.2020

Job Number: 20033
 RISER DIAGRAMS

P0.4



Project Phase: Construction Documents

Issue Date: 07.31.2020

Revisions		
No.	Description	Date
1	Revision 1	08.28.2020

Job Number: 20033

FLOOR PLANS

P1.1

GENERAL NOTES

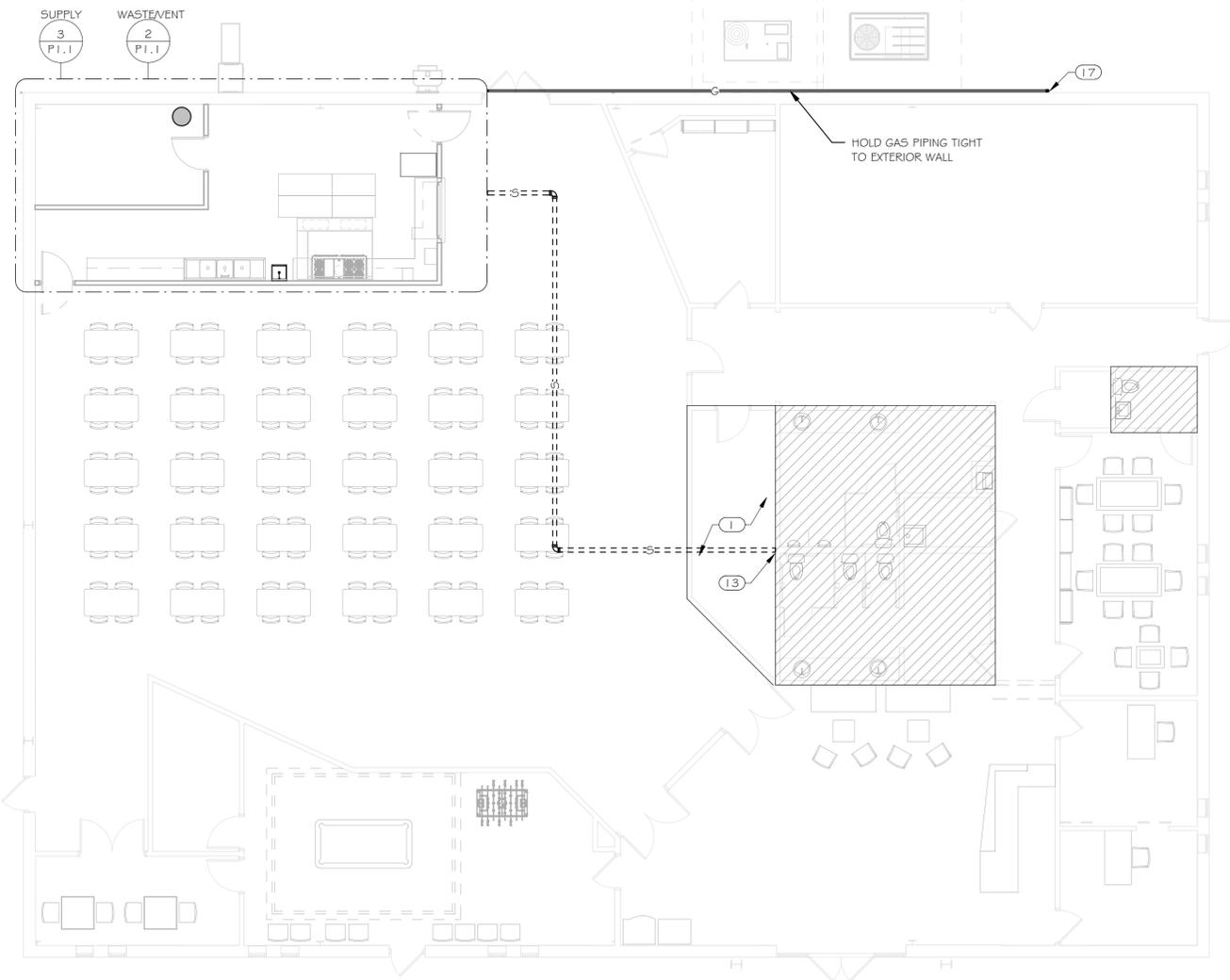
- A. WHERE DRAWINGS REQUIRE CONNECTION TO EXISTING SANITARY SEWER PIPING IN BUILDING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD DETERMINE EXACT LOCATION, DEPTH AND DIRECTION OF FLOW PRIOR TO COMMENCING WORK. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER IF THERE IS A POTENTIAL ISSUE MAINTAINING PROPER SLOPE IN CONNECTING TO EXISTING, OR IF THERE IS A MORE DIRECT CONNECTION POSSIBLE. CONTRACTOR SHALL CONFIRM THAT ANY EXISTING PIPING TO BE REUSED IS CLEAN, FREE OF DEFECTS, ADEQUATELY SLOPED (1/8"FT MINIMUM) AND THAT THERE ARE NO DIPS THAT COULD HOLD WATER. PROVIDE CAMERA SCOPING TO DOCUMENT THIS INFORMATION. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER OF ANY DEFICIENCIES.
- B. CONTRACTOR SHALL FULLY COORDINATE THE INSTALLED KITCHEN EQUIPMENT WITH THESE DRAWINGS AND THE KITCHEN DESIGN DRAWINGS (AS APPLICABLE) TO ENSURE THAT ALL KITCHEN EQUIPMENT IS PROVIDED WITH THE REQUIRED DRAINAGE, WATER & GAS CONNECTIONS. SHUTOFF VALVES SHALL BE PROVIDED FOR MAINTENANCE ON ALL WATER & GAS SUPPLIES TO FIXTURES & EQUIPMENT.
- C. THERE IS NO CEILING OVER THE KITCHEN SPACE. LOCATE ALL VENT AND SUPPLY PIPES OVER KITCHEN SPACE AS LOW AS POSSIBLE TO HIDE FROM VIEW.

KEYNOTES

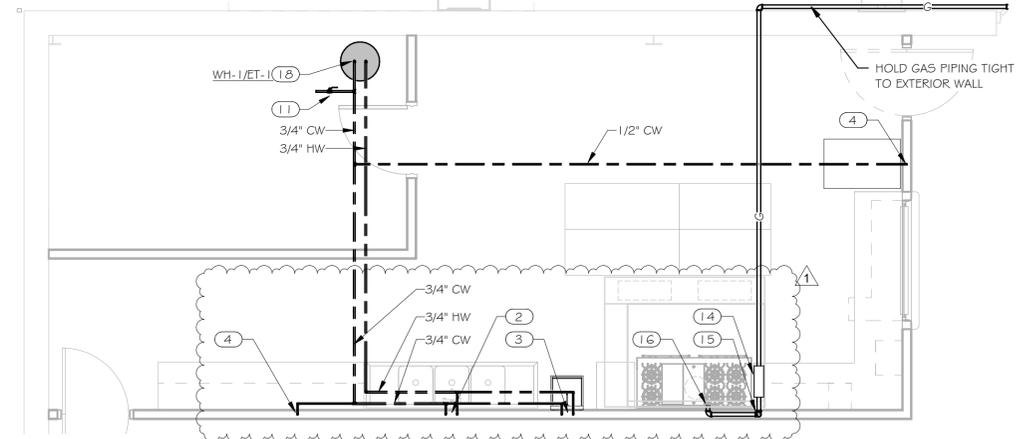
- (14) NATURAL GAS TO MANUAL BALL VALVE AND SOLENOID OPERATED SHUTOFF VALVE. SOLENOID VALVE SHALL BE INTERLOCKED WITH HOOD FIRE SUPPRESSION SYSTEM TO CLOSE WHEN ACTIVATED. MOUNT VALVES ABOVE CEILING AT AN ACCESSIBLE LOCATION.
- (15) GAS SUPPLY DN W/DIRT LEG & A/F TO GAS FIRED APPLIANCE
- (16) FULL CONNECTION SIZE, VALVED FLEXIBLE GAS CONNECTION FROM GAS HEADER TO GAS FIRED APPLIANCE (SEE DETAIL). INSTALL VALVES IN ACCESSIBLE LOCATION BEHIND EQUIPMENT.
- (17) NATURAL GAS A/C & DN ON EXTERIOR WALL TO EXISTING NATURAL GAS METER INSTALLATION, FIELD VERIFY EXACT LOCATION. SEE RISER DIAGRAM FOR PIPE SIZING AND DESIGN CRITERIA.
- (18) 3/4" CW & 3/4" 140°HW TO WATER HEATER INSTALLATION, SEE DETAIL

KEYNOTES

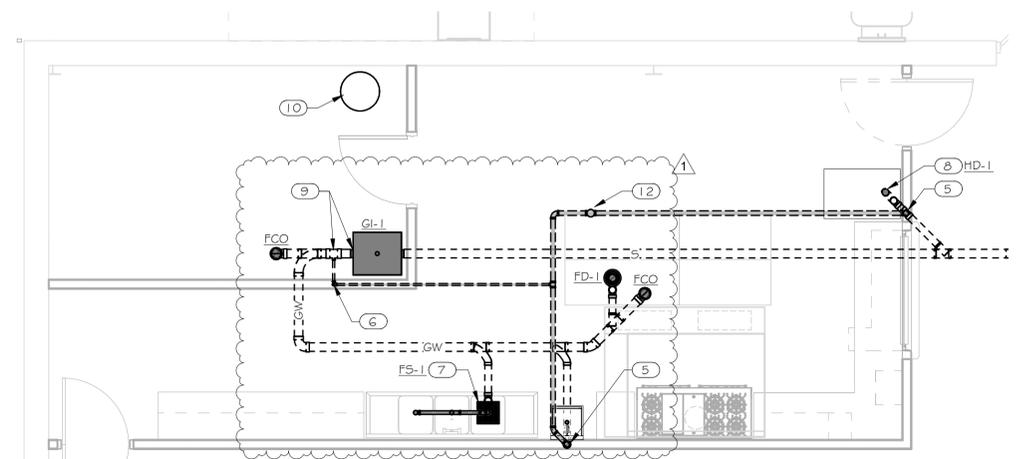
- (1) DEMO EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING IN THIS AREA. CAP UNUSED PIPING BELOW FLOOR, IN WALL, OR ABOVE CEILING AS APPLICABLE.
- (2) 1/2" CW & 1/2" 140°HW TO FIXTURE
- (3) 1/2" CW & 1/2" 140°HW TO FIXTURE, PROVIDE MIXING VALVE MV-1 TO TEMPER HW TO 110°
- (4) 1/2" CW TO BEVERAGE EQUIPMENT/ICE MAKER, PROVIDE BACKFLOW PREVENTER BFP-1 AT FINAL CONNECTION
- (5) 2" V DN
- (6) 3/4" V DN
- (7) 3" FLOOR SINK FS-1. DISCHARGE ALL NEARBY INDIRECT WASTE CONNECTIONS FULL SIZE W/AIR GAP AT LEAST TWICE THE DIAMETER OF INDIRECT WASTE PIPE (SEE DETAIL). FIELD COORDINATE WITH INSTALLED EQUIPMENT.
- (8) 3" HUB DRAIN HD-1. DISCHARGE ALL NEARBY INDIRECT WASTE CONNECTIONS FULL SIZE W/AIR GAP AT LEAST TWICE THE DIAMETER OF INDIRECT WASTE PIPE (SEE DETAIL). FIELD COORDINATE WITH INSTALLED EQUIPMENT.
- (9) 4" GW B/F TO NEW 35 GPM / 70 LB RECESSED (WITH TOP FLUSH WITH FLOOR) GREASE INTERCEPTOR GL-1, FDI APPROVED. ROUTE 3/4" VENT FROM MANUFACTURER'S FLOW CONTROL FITTING B/F & UP
- (10) ROUTE PAN DRAIN FOR NEW WATER HEATER INSTALLATION TO EXISTING EXTERIOR DRAINAGE LOCATION.
- (11) 3/4" CW A/C & CONNECT TO EXISTING WATER PIPING, FIELD VERIFY SIZE AND EXACT LOCATION.
- (12) 3" V UP TO 3" VTR
- (13) 4" S B/F & CONNECT TO EXISTING SANITARY MAIN. FIELD VERIFY EXACT LOCATION AND DEPTH PRIOR TO COMMENCING WORK.



1 OVERALL FLOOR PLAN - PLUMBING
1/8" = 1'-0"



3 ENLARGED FLOOR PLAN - SUPPLY
1/4" = 1'-0"



2 ENLARGED FLOOR PLAN - WASTE & VENT
1/4" = 1'-0"

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EXHAUST FAN INFORMATION - Job#4434227

FAN UNIT NO	TAG	FAN UNIT MODEL #	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1		DUBSHFA	1350	1.250	1351	DDP	0.750	0.4330	3	208	2.6	427 FPM	94	15.5

MUA FAN INFORMATION - Job#4434227

FAN UNIT NO	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	Ø	VOLT	FLA	MCA	MDCP	WEIGHT (LBS)	SDNES
2		AI-1SD	1SMF-1-MDD	AI	-	1080	0.500	1295	DDP	0.500	0.3150	3	208	1.9	2.4A	15A	287	13.3

FAN OPTIONS

FAN UNIT NO	TAG	OPTION (Qty - Descr)
1		1 - Grease Box 1 - Through Wall Curb Mount Installation. Curb height must be minimum 9' taller than wall thickness for use with a hinge kit. 1 - Wall Mount Construction For Fan 1 - Ship Loose Disconnect For Remote Mount.
2		1 - Motorized Backdraft Damper for Size 1 Housing 1 - Wall Mount Option for Size 1 Untempered Fan 1 - Separate 120VAC Wiring Package (Required and used only for DCV or Prewire with VFD) - Three Phase Only

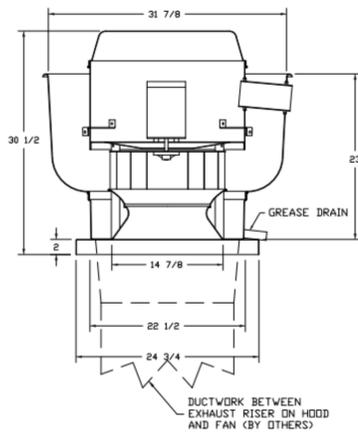
FAN ACCESSORIES

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

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	40 LBS	Curb	23,000"W x 23,000"L x 26,000"H Right Vented Hinged

FAN #1 DUBSHFA - EXHAUST FAN



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL162 AND UL-C-5645
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

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

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

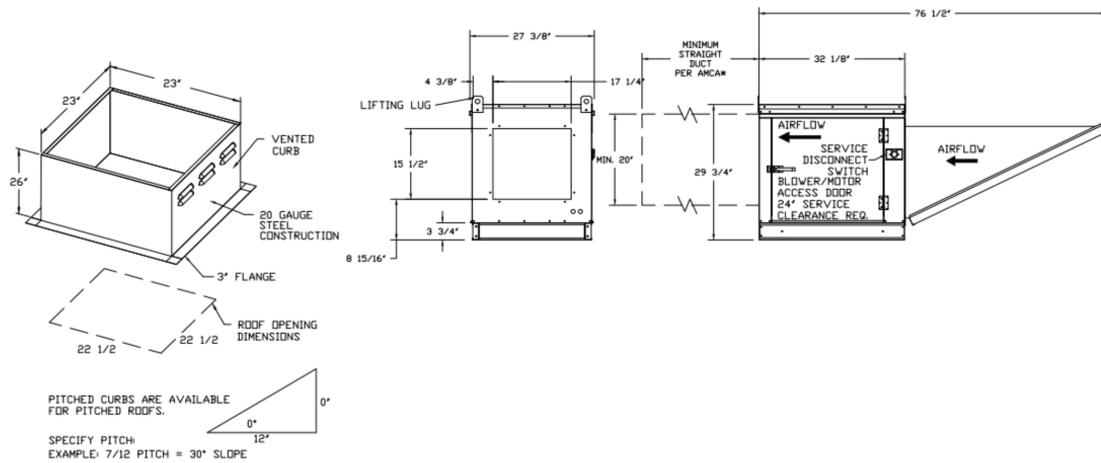
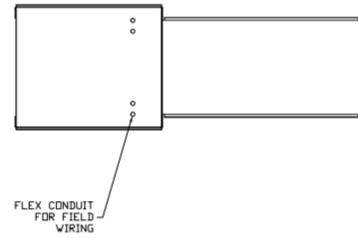
OPTIONS

- GREASE BOX
- THROUGH WALL CURB MOUNT INSTALLATION. CURB HEIGHT MUST BE MINIMUM 9' TALLER THAN WALL THICKNESS FOR USE WITH A HINGE KIT.
- WALL MOUNT CONSTRUCTION FOR FAN
- SHIP LOOSE DISCONNECT FOR REMOTE MOUNT.

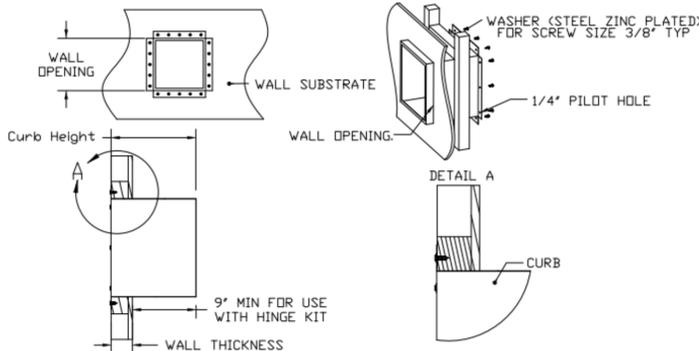
DUCTWORK BETWEEN EXHAUST RISER ON HOOD AND FAN (BY OTHERS)

- FAN #2 AI-1SD - SUPPLY FAN
1. UNTEMPERED SUPPLY UNIT WITH 15" DIRECT DRIVE FAN IN SIZE #1 HOUSING
 2. INTAKE HOOD WITH EZ FILTERS
 3. SIZE DISCHARGE - AIR FLOW RIGHT -> LEFT
 4. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 UNTEMPERED UNITS V/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB205 ACTUATOR INCLUDED
 5. WALL MOUNT OPTION FOR SIZE 1 UNTEMPERED MAKE-UP AIR FAN, 32" LONG ANGLE IRON FRAME.
 6. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
 7. HINGED DOUBLE WALL INSULATED JOOR ASSEMBLY (BURNER/BLOWER SECTION)

NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20"



Through Wall Curb Installation



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Anderson Co Senior Center Kitchen Renovation
 CLINTON, TN, 37716

DATE: 7/13/2020

DWG.#: 4434227

DRAWN BY: J. Irvine

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

MASTER DRAWING

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Job Number: 20033

HOOD PACKAGE SELECTION

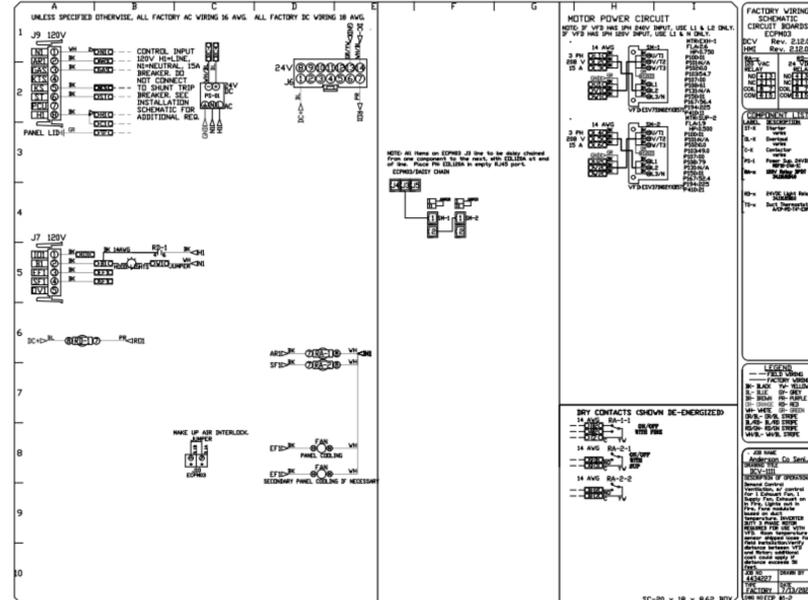
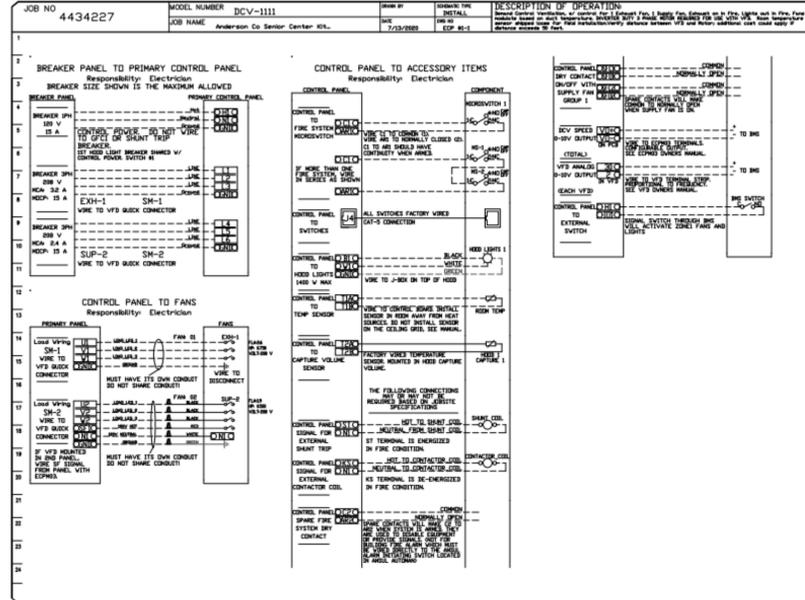
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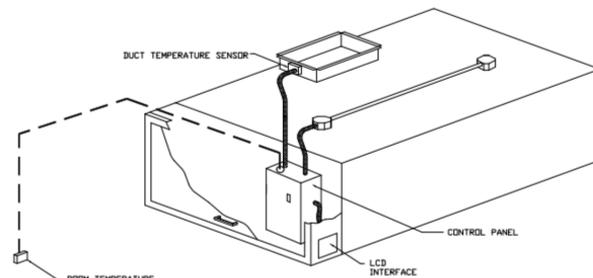
ELECTRICAL PACKAGE - Job#4434227

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	HP	VOL	FLA	
1		DCV-1111	Utility Cabinet Right	04 - DERRY CABINET RIGHT	1 Light	Smart Controls DCV	Exhaust	3	0.750	208	2.6
				Hood # 1	1 Fan		Supply	3	0.500	208	1.9



Demand Control Ventilation Hood Control Panel Specifications:

- Controls shall be listed by ETL (UL 508A) and shall comply with demand ventilation system turn-down requirements outlined in IECC 403.2.8 (2015).
- The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.
- Temperature probe(s) located in the exhaust duct riser(s) shall be constructed of stainless steel.
- A digital controller shall be provided to activate the hood exhaust fans dynamically based on a fixed differential between the ambient and duct temperatures sensors. This function shall meet the requirements of IMC 507.1.1.
- A digital controller shall provide adjustable hysteresis settings to prevent cycling of the fans after the cooking appliances have been turned off and/or the heat in the exhaust system is reduced.
- A digital controller shall provide an adjustable minimum fan run-time setting to prevent fan cycling.
- Variable Frequency Drives (VFDs) shall be provided for fans as required. The digital controller shall modulate the VFDs between a minimum setpoint and a maximum setpoint on demand. The duct temperature sensor input(s) to the digital controller shall be used to calculate the speed reference signal.
- The VFD speed range of operation shall be from 0% to 100% for the system, with the actual minimum speed set as required to meet minimum ventilation requirements.
- An internal algorithm to the digital controller shall modulate supply fan VFD speed proportional to all exhaust fans that are located in the same fan group as the supply fan.
- The system shall operate in PREP MODE during light cooking load or COOL DOWN MODE when sufficient heat remains underneath the hood system after cooking operations have completed. Operation during either of these periods will disable the supply fans and provide an exhaust fan speed that is equal to the minimum ventilation requirement.
- A digital controller shall disable the supply fan(s), activate the exhaust fan(s), activate the appliance shunt trip, and disable an electric gas valve automatically when fire condition is detected on a covered hood.
- A digital controller shall allow for external BMS fan control via Dry Contact (external control shall not override fan operation logic as required by code).
- An LCD interface shall be provided with the following features:
 - a. On/Off push button fan & light switch activation
 - b. Integrated gas valve reset for electronic gas valves (no reset relay required)
 - c. VFD fault display with audible & visual alarm notification
 - d. Duct temperature sensor failure detection with audible & visual alarm notification
 - e. Mis-wired duct temperature sensor detection with audible & visual alarm notification
 - f. A single low voltage Cat-5 RJ45 wiring connection
 - g. An energy savings indicator that utilizes measured kWh from the VFDs



TYPICAL HOOD CONTROL PANEL INSTALLATION

Sequence of Operations:

- The hood control panel is capable of operating in one or more of the following states at any given time:
- **Automatic:** The system operates based on the differential between room temperature and the temperature at the hood cavity or exhaust duct collar. Fans activate at a configurable temperature differential threshold. Depending on the job configuration each fan zone can be configured as static or dynamic. These terms refer to whether a variable motor (such as EC Motors or VFD driven motors) modulate with temperature. If the panel is equipped with variable speed fans and the zone is defined as 'dynamic', these will modulate within a user-defined range based on the temperature differential. Panels equipped with variable speed fans and a fan zone defined as 'static', fans will run at a set speed calculated for the drive. Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.8.
 - **Manual:** The system operates based on human input from an HMI.
 - **Schedule:** A weekly schedule can be set to run fans for a specified period throughout the day. There are three occupied times per day to allow for the user to set up a time that is suitable to their needs. Any time that is within the defined occupied time, the system will run at modulation mode and follow the fan procedure algorithm based on temperature during this time. During unoccupied time, the system will have an extra offset to prevent unintended activation of the system during a time where the system is not being occupied.
 - **Other:** The system operates based on the input from an external source (DDC, BMS or hard-wired interlock)

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 CLINTON, TN, 37716

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 DRAWN BY: J. Irvine
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No.	Description	Date

Job Number: 20033
 HOOD PACKAGE SELECTION

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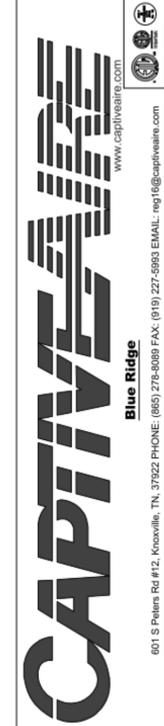
System Design Verification (SDV)

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

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NO.	DATE



Anderson Co Senior Center Kitchen Renovation
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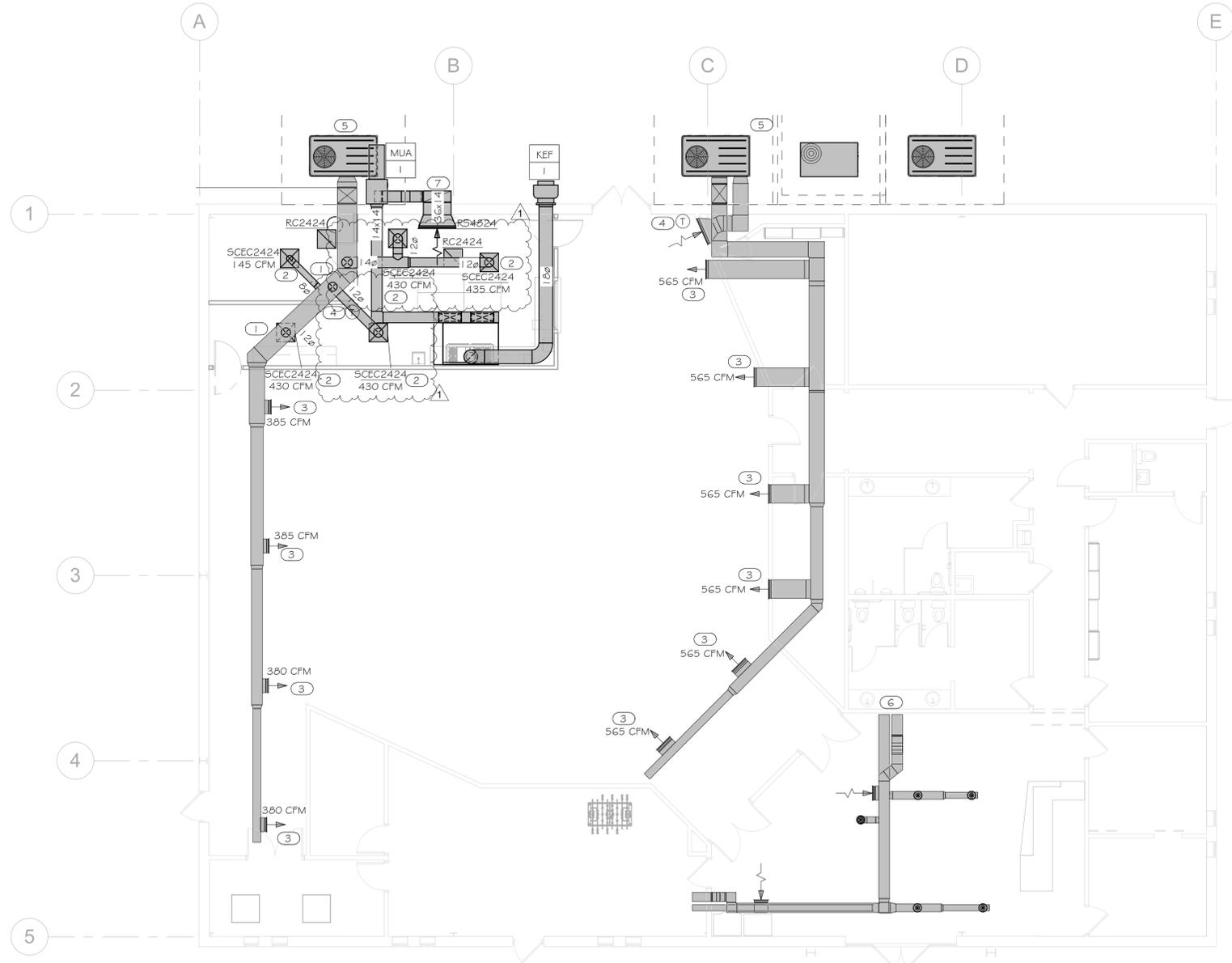
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 HOOD PACKAGE SELECTION
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1 FLOOR PLAN - NEW WORK
 M.L.I. 1/8" = 1'-0"

GENERAL NOTES

- A EACH SUPPLY DIFFUSER/REGISTER RUNOUT SHALL BE PROVIDED WITH A VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OFF DETAIL FOR ADDITIONAL INFORMATION.
- B DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- C EXISTING DUCTWORK TO BE CLEANED AND PATCHED TO GOOD WORKING ORDER.
- D EXISTING EQUIPMENT TO BE CLEANED AND SERVICED TO GOOD WORKING ORDER.
- E EXISTING GRILLES, REGISTERS AND DIFFUSERS TO BE CLEANED AND SERVICED TO GOOD WORKING ORDER AND LIKE NEW APPEARANCE.
- F ALL MECHANICAL AIR INTAKES TO BE LOCATED A MINIMUM OF 10' AWAY FROM EXHAUST TERMINATIONS.

KEYNOTES

- 1 EXISTING DIFFUSERS ABOVE KITCHEN SPACE TO BE DEMOLISHED AND REMOVED FROM SITE. PATCH EXISTING TRUNK DUCT TO LIKE NEW CONDITION.
- 2 NEW BRANCH DUCT WORK TO BE RUN FROM EXISTING TRUNK DUCT TO NEW DIFFUSER.
- 3 EXISTING DIFFUSER TO BE REBALANCED TO CFM SHOWN.
- 4 WHERE EXISTING THERMOSTATS ARE IN GOOD WORKING ORDER, RELOCATE TO LOCATIONS SHOWN. WHERE THERMOSTATS ARE IN POOR CONDITION, REPLACE EXISTING THERMOSTAT WITH NEW PROGRAMMABLE THERMOSTAT IN LOCATION SHOWN.
- 5 CLEAN AND RESTORE EXISTING 8.5 TONS COOLING CAPACITY GROUND MOUNTED UNIT TO LIKE NEW CONDITION. BALANCE GMU TO 3,400 CFM SUPPLY AIR AND 850 CFM OUTSIDE AIR.
- 6 SEE ARCHITECTURAL DRAWINGS FOR DUCTWORK FINISH MODIFICATIONS.
- 7 RETURN AIR DUCT ASSUMED TO BE 36" X 14". MECHANICAL CONTRACTOR TO FIELD VERIFY AND NOTIFY DESIGN TEAM OF ANY DISCREPANCY.

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Anderson County Senior
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Project Phase: Construction Documents

Issue Date: 07.31.2020

Revisions		
No.	Description	Date
1	Revision 1	08.28.2020

Job Number: 20033
 FLOOR PLAN - NEW
 WORK

M1.1

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LEGEND		
SYMBOLS	DESCRIPTION	MOUNTING
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	DUPLEX RECEPTACLE TOP HALF SWITCHED, 120V, 20A, NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	FLUSH WITH FINISHED FLOOR
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	IN CEILING
	SPECIAL RECEPTACLE, CONFIGURATION AND ELECTRICAL CHARACTERISTIC AS NOTED ON DWG	18" AFF
	JUNCTION BOX FLUSH IN WALL WITH COVER. SIZE PER NEC.	18" AFF
	JUNCTION BOX FLUSH IN CEILING WITH COVER. SIZE PER NEC.	IN CEILING
	JUNCTION BOX FLUSH IN FINISHED FLOOR WITH COVER. SIZE PER NEC.	FLUSH WITH FINISHED FLOOR
	TV OUTLET	SAME HEIGHT AS ADJACENT POWER OUTLET
	TELEPHONE / DATA COMBINATION OUTLET	18" AFF
	TELEPHONE / DATA COMBINATION OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
	SMOKE DETECTOR. CEILING / WALL MOUNTED	CEILING / 80" AFF
	HEAT DETECTOR. CEILING/WALL MOUNTED	CEILING / 80" AFF
	FIRE ALARM NOTIFICATION DEVICE. AUDIO AND VISUAL.	80" AFF
	FIRE ALARM NOTIFICATION DEVICE. AUDIO.	80" AFF
	FIRE ALARM NOTIFICATION DEVICE. VISUAL.	80" AFF
	FIRE ALARM INITIATION DEVICE. PULL STATION.	42" AFF
	SWITCH	42" AFF
	SWITCH - 3 WAY	42" AFF
	SWITCH - BUILT IN OCCUPANCY SENSOR	42" AFF
	DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE	AS INDICATED ON DWG
	ELECTRICAL PANELBOARD. REFER TO PANELBOARD SCHEDULE.	SURFACE MOUNTED ON WALL
	CONDUIT	
	CONDUCTOR TURNING DOWN/UP	
	HOME RUN WITH WIRE TICKS. XX - PANEL DESIGNATION, # - CIRCUIT DESIGNATION. WIRE TICKS - (1) NEUTRAL , (3) HOT III & (1) GROUND •	

GENERAL NOTES

ALL EXIT SIGNS, NIGHT LIGHTS AND EMERGENCY BALLAST CHARGING CIRCUITS SHALL BE CONNECTED TO UNSWITCHED PORTION OF LIGHTING CIRCUIT SHOWN.

FIXTURE TYPE INDICATED BY UPPER CASE CHARACTERS, SWITCHING AND GROUPING DESIGNATED BY LOWER CASE LETTER AND CIRCUIT BY NUMBER (WHERE APPLICABLE).

WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.

REFER TO THE ARCHITECTURAL/INTERIORS DOCUMENTS FOR ACTUAL DEVICE LOCATIONS AND DIMENSIONS.

REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS, WHICH REQUIRE ELECTRICAL SERVICE.

REFER TO APPROPRIATE DRAWINGS AND MANUFACTURER'S INSTALLATION MANUAL TO PROVIDE ALL SUPPLEMENTARY AND CONTROL CIRCUITS TO BRING EQUIPMENT TO FULL WORKING CONDITION.

EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS.

WALL SWITCHES CONTROLLING CIRCUITS OF OPPOSITE PHASES SHALL NOT BE INSTALLED IN COMMON BOX UNLESS PERMANENT BARRIER IS PROVIDED.

ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE FULLY COORDINATED WITH STRUCTURAL DRAWINGS.

REFER TO THE ARCHITECTURAL/INTERIORS REFLECTED CEILING PLANS FOR EXACT FIXTURE PLACEMENT AND DIMENSIONS.

REFER TO THE ARCHITECTURAL/INTERIORS DOCUMENTS FOR ACTUAL DEVICE LOCATIONS AND DIMENSIONS. FIELD VERIFY LAYOUT WITH EXISTING CONDITIONS AND STRUCTURE PRIOR TO BEGINNING INSTALLATION.

SEE HVAC DRAWINGS FOR LOCATIONS OF EQUIPMENT TO BE POWERED.

COORDINATE WITH EQUIPMENT CUTSHEETS AND PROVIDE ADDITIONAL CONTROL CIRCUITS IF REQUIRED BY MANUFACTURER.

GENERAL DIAGRAMMATIC RACEWAY INTERCONNECTIONS OF EQUIPMENT, FIXTURES AND DEVICES ARE INDICATED ON FLOOR AND REFLECTED CEILING PLANS. REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ELEVATION CHANGES AND RACEWAY ROUTES.

EACH PENETRATION OF A FIRE RESISTANT RATED ASSEMBLY BY A PIPE, TUBE WIRE OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E814 OR E199.

ELECTRIC RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24-INCHES APART.

ABBREVIATIONS

AC	6" ABOVE COUNTER SPACE OR 42" AFF	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MTD	MOUNTED
AL	ALUMINUM	N	NEUTRAL
BKR	BREAKER	NEC	NATIONAL ELECTRICAL CODE
CND	CONDUIT	PNL	PANEL
CONN	CONNECTED OR CONNECTION	RECPT	RECEPTACLE
CU	COPPER	TEL	TELEPHONE
DN	DOWN	TTB	TELEPHONE TERMINAL BOARD
ELEC	ELECTRICAL	TV	TELEVISION
G OR GRND	GROUND	XFMR	TRANSFORMER
GFCI OR GF	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF



Anderson County Senior Center
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Project Phase: Construction Documents

Issue Date: 07/31/20

Revisions		
No.	Description	Date

Job Number: 20033
 GENERAL



Project Phase: Construction Documents

Issue Date: 07/31/20		
Revisions		
No.	Description	Date
1	Revision 1	08.28.2020

Job Number: 20033
FLOOR PLAN - POWER

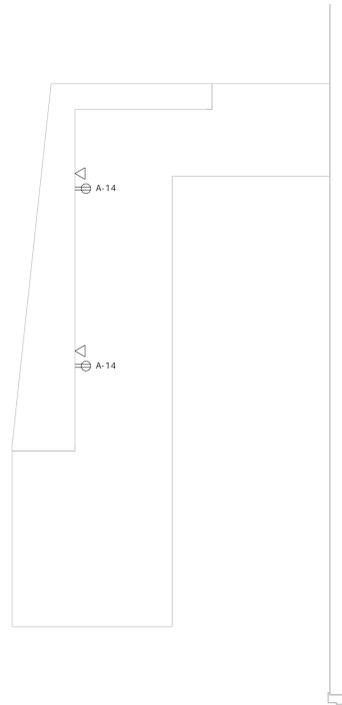
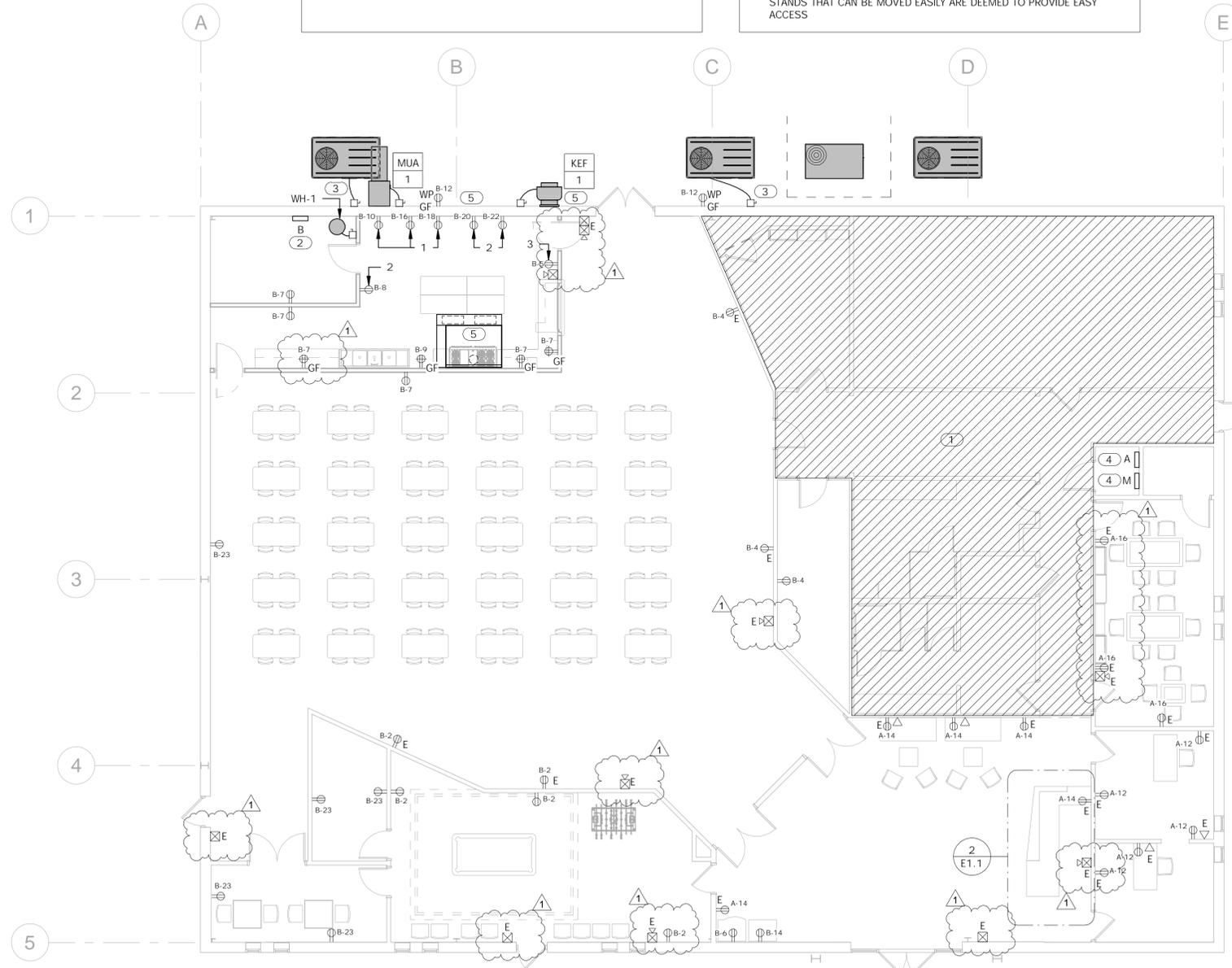
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KEYNOTES

- 1 HATCHED AREA NOT IN SCOPE.
- 2 PANEL IS EXISTING TO REMAIN. PANEL HEIGHT TO BE ADJUSTED SO THAT THE CENTER OF THE HIGHEST BREAKER SHALL NOT EXCEED 6'-7" ABOVE FINISHED FLOOR. PANEL LOCATION AND HEIGHT SHALL COMPLY WITH NEC 240.24 AND IS TO BE COORDINATED AND CONFIRMED WITH THE ARCHITECT AND OWNER. EXTEND WIRE AND CONDUIT AS NECESSARY.
- 3 EXISTING MECHANICAL UNIT IS TO REMAIN. MAINTAIN CIRCUITING. REFERENCE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- 4 PANEL IS EXISTING TO REMAIN. MAINTAIN CIRCUITING AND ANY ASSOCIATED DEVICES UNLESS NOTED OTHERWISE.
- 5 COORDINATE ALL HOOD REQUIREMENTS WITH MANUFACTURER AND MECHANICAL DOCUMENTS PRIOR TO ROUGH-IN.

GENERAL NOTES

- A. ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE 250-146.
- B. FOR ALL KITCHEN AND BAR EQUIPMENT, SEE EQUIPMENT SCHEDULE ON THIS SHEET FOR ELECTRICAL CONNECTION INFORMATION AND OTHER GENERAL INFORMATION. KITCHEN APPLIANCE CONNECTION LOCATION TO BE COORDINATED WITH THE ACTUAL EQUIPMENT INSTALLED. REFER TO ARCHITECTURAL DOCUMENTS FOR MOUNTING HEIGHT AND DIMENSIONS. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- C. ALL SINGLE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 50A OR LESS AND THREE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 100A OR LESS IN KITCHEN AND FOOD PREP AREAS SHALL BE GFCI PER NEC 210.8(B). GFCI MUST BE READILY ACCESSIBLE FOR TESTING. FOR RECEPTACLES OBSTRUCTED FROM ACCESSIBILITY BY EQUIPMENT, ACCEPTABLE ALTERNATIVES TO A GFCI RECEPTACLE ARE REMOTE TEST BUTTONS, GFCI BREAKERS, OR GFCI RECEPTACLES UPSTREAM ON THE SAME CIRCUIT. COUNTER EQUIPMENT AND EQUIPMENT ON CASTERS OR STANDS THAT CAN BE MOVED EASILY ARE DEEMED TO PROVIDE EASY ACCESS



2
E1.1
ENLARGED RECEPTION DESK POWER PLAN - ADD ALTERNATE 1
1/2" = 1'-0"

1
E1.1
FLOOR PLAN - POWER
1/8" = 1'-0"

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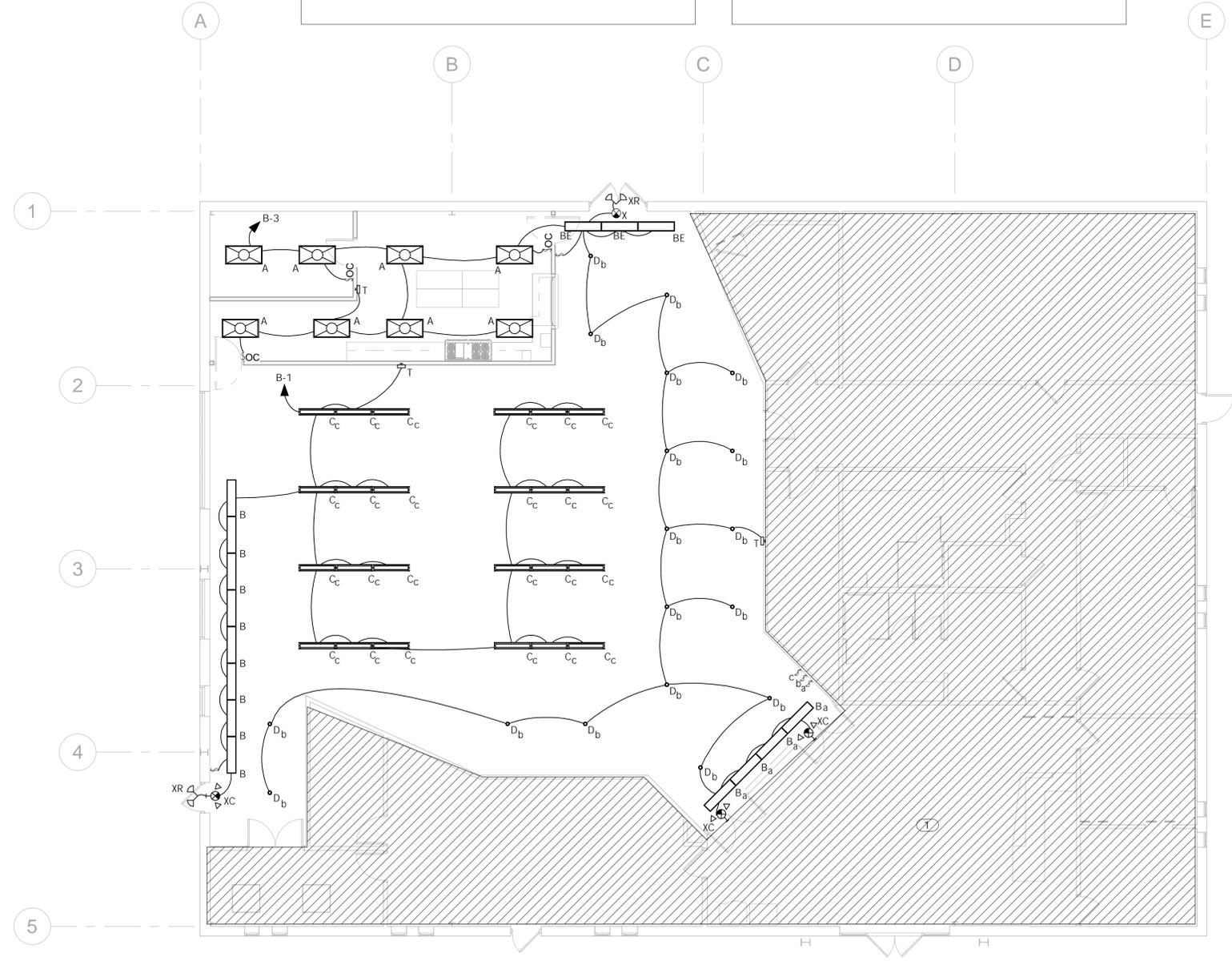
KEYNOTES

① HATCHED AREA NOT IN SCOPE.

GENERAL NOTES

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

B. PROVIDE UNSWITCHED HOT LEG OF CIRCUIT TO EMERGENCY LIGHTING AND EXIT SIGNS.



① FLOOR PLAN - LIGHTING
 1/8" = 1'-0"

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Issue Date: 07/31/20

Revisions

No.	Description	Date

Job Number: 20033
 FLOOR PLAN - LIGHTING

E2.1