Renovations for the Proposed:

Anderson County Senior Center

96 Mariner Point Drive Clinton, Tennessee 37716

07.31.2020

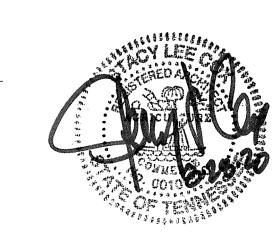
Architect: CENTER LINE WALL TYPE Studio Four Design, Inc. Anderson County Government EXTERIOR ELEVATION 100 North Main Street 414 Clinch Avenue COLUMN GRID $\langle TLT-01 \rangle$ ACCESSORY TAG Knoxville, Tennessee 37902 Clinton, Tennessee 37716 Contact: Mayor Terry Frank Contact: Aaron Jernigan, Assoc. AIA Name Elevation **ELEVATION MARKER** T: 865.523.5001 Room Name T: 865.457.6200 ROOM IDENTIFICATION F: 865.457.6270 F: 865.523.5003 101A E: tfrank@andersontn.org E: ajernigan@s4dinc.com POINT ELEVATION INTERIOR FINISH ELEVATION DOOR IDENTIFICATION REVISION NOTE M/E/P Engineer: Proficient Engineering, Inc. WINDOW IDENTIFICATION 6025 Brookvale Lane, Suite 202 Knoxville, Tennessee 37919 NORTH ARROW 1i 1'-11 1/2" CEILING IDENTIFICATION DEMO NOTE Contact: Thomas Wasmund, PE E: twasmund@proficientengineering.com Project Contacts **Graphic Symbols** DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, CONTRACTOR SHALL OBTAIN CLARIFICATION, IN WRITING, **EARTH** WOOD - ROUGH INTERIOR AND EXTERIOR WALL AND PARTITION DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD UNLESS NOTED OTHERWISE. MASONRY DIMENSIONS ARE FROM OUTSIDE EDGE TO OUTSIDE EDGE UNLESS NOTED OTHERWISE. **BATT INSULATION** CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES, REGULATIONS AND ORDINANCES AND SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR CONSTRUCTION. FIRE EXTINGUISHER(S) ARE REQUIRED IN THE SPACE PER NFPA 10. MOUNT CABINETS AND EXTINGUISHERS AT LOCATIONS CONCRETE GYPSUM BOARD INVOLVES CONSTRUCTION OF THE RECEPTION DESK IN THE LOBBY AND ASSOCIATED SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE FIRE/BUILDING INSPECTOR. ELECTRICAL. IN BASE BID, NO RECEPTION DESK IS CONSTRUCTED. CONSTRUCTION MATERIALS SPECIFIED AND NOTED ON THE DRAWINGS ARE REPRESENTATIVE OF THE GENERAL DESIGN ACOUSTIC TILE RIGID INSULATION **△ADD ALTERNATE 2** GENERAL CONTRACTOR TO VERIFY CONDITIONS PRIOR TO BIDDING. IF CONDITIONS ARE DIFFERENT THAN SHOWN IN INVOLVES THE RELOCATION OF EXISTING CASEWORK TO NEW AREAS AND DRAWINGS, CONTACT ARCHITECT IMMEDIATELY. MASONRY VENEER WHERE A DETAIL IS SHOWN OR A NOTE IS DESCRIBED FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY NOTED ON THE DRAWINGS. PLYWOOD CONCRETE MASONRY UNIT CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT SURROUNDINGS PROPERTY, STREETS, WALKS, ETC. DURING CONSTRUCTION ACTIVITIES AND SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED AS A RESULT. WOOD - FINISHED CONTRACTOR TO COORDINATE LOCATION OF TEMPORARY CONSTRUCTION BARRIERS WITH OWNER. MEANS OF EGRESS EXIT ACCESS ROUTES MUST REMAIN OPEN AND ACCESSIBLE TO ALL OCCUPANTS. REQUESTS FOR SUBSTITUTIONS MAY BE PERMITTED PER THE GENERAL CONDITIONS. Materials Legend **General Notes Bid Alternate Descriptions** NTS

Construction Documents 07.31.2020 T0.0 **Cover Sheet** T0.1 **General Accessibility Details** LIFE SAFETY Life Safety Plan & Code Review ARCHITECTURAL DEMOLITION **Demolition Plan ARCHITECTURAL** Kitchen Equipment Plan & Schedule Reflected Ceiling Plan A7.0 Door Schedule, Finish Index & Schedule A7.1 **Finish Floor Plan** A8.1 Interior Elevations **Interior Details PLUMBING Specifications** P0.2 Schedules, Legend, & Abbreviations P0.3 P0.4 Riser Diagrams P1.1 Floor Plan MECHANICAL General Details M0.3 **Schedules** M0.4 **Hood Package Selection Hood Package Selection Hood Package Selection Hood Package Selection** M0.8 **Hood Package Selection** Floor Plan - New Work ELECTRICAL **Specifications** E0.2 General E0.3 E1.1 Floor Plan - Power Floor Plan - Lighting

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> County Center 96 Mariner Point Drive Clinton, Tennessee 377 Anderson Senior (



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Re	evisions	
No	o. Descripton	Date
1	Revision 1	08.28.2020

Job Number: Cover Sheet

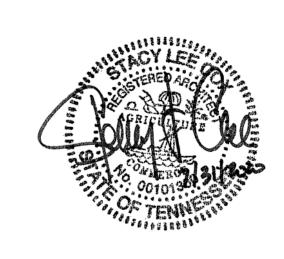
0.0

1' - 0" MIN. IF LATCH AND LATCH APPROACHES FRONT APPROACHES CLOSER ARE PROVIDED *48" MIN. IF CLOSER IS PROVIDED *54" MIN. IF CLOSER IS PROVIDED 32" MIN. CLEAR 32" MIN. CLEAR PULL SIDE PUSH SIDE PULL SIDE PUSH SIDE 1' - 0" MIN. IF LATCH AND CLOSER ARE PROVIDED CLEARANCE AT OPENINGS HINGE APPROACHES MIN IS 10 1/4" MIN*48" MIN. IF LATCH AND CLOSER ARE PROVIDED 3' - 0" MIN. CLEAR PUSH SIDE PULL SIDE PULL SIDE PULL SIDE PUSH SIDE Clearance Requirements at Doors & Openings
NTS UNOBSTRUCTED FORWARD REACH OBSTRUCTED FORWARD REACH OBSTRUCTED FORWARD REACH 11 10" MAX.-10" MAX. >10"-24" UNOBSTRUCTED SIDE REACH OBSTRUCTED SIDE REACH OBSTRUCTED SIDE REACH 5 Practical Reach Ranges SEE SECTION 306 IN 2009 ICC A117.1 FOR TOE CLEARANCE INCLUSION OF CLEAR FLOOR SPACE. PLUMBING MUST BE INSULATED OR SHIELDED FROM CONTACT 4' - 0" MIN. SLOPED CHANGES IN LEVEL VERTICAL CHANGES IN LEVEL 11" MIN. 6" MAX. ∠ CLEAR FLOOR SPACE BEVELED TRANSITION AT LAVATORY PLAN LAVATORY SIDE CHANGES IN LEVEL CARPET ELEVATION Limits of Changes in Level Clearances at Lavatories OBJECT THAT IMPEDES FOOT THIS SHEET REPRESENTS THE MOST STRINGENT REQUIREMENTS FOR ACCESSIBILITY BETWEEN THE 2010 ADA STANDARDS AND THE 2009 ICC A117. THIS SHEET IS NOT MEANT TO DICTATE DIMENSIONS ON THE FOLLOWING SHEETS, BUT TO SERVE AS A GUIDE TO BUILDER AND DESIGNER. VERIFY ALL STANDARDS ON THIS SHEET WITH THE SPECIFIC DIMENSIONS ON THE FOLLOWING SHEETS. THE ARCHITECT SHOULD BE IMMEDIATELY INFORMED OF ANY DISCREPANCIES. LIMITS OF PROTRUDING OBJECTS REDUCED VERTICAL CLEARANCE Purpose of Accessibility Details Limits of Protruding Objects & Trade-Off for Reduced Vertical Clearance

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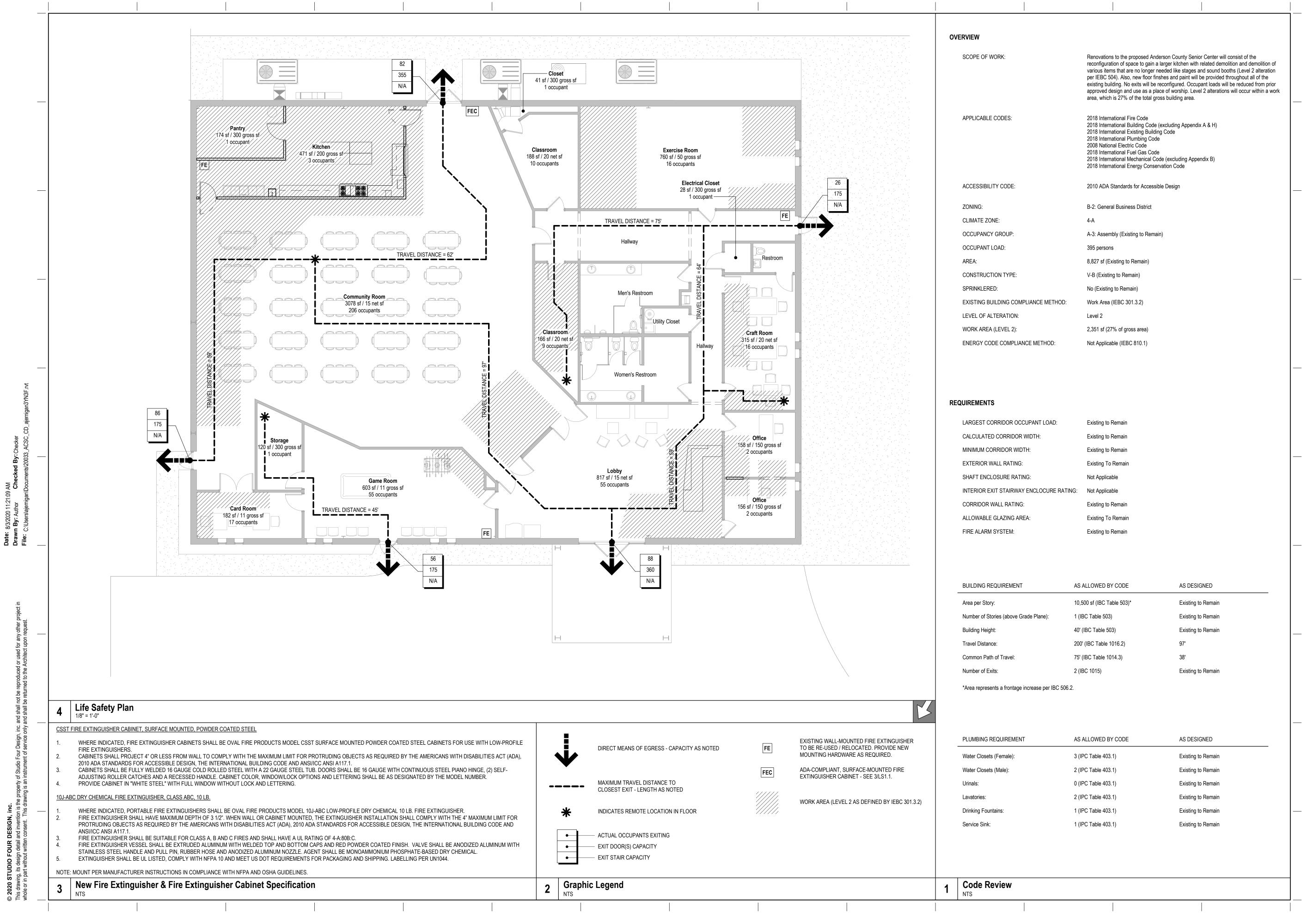
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General Accessibility Details

T0.1



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Job Number: 2003

Life Safety Plan & Code Review

LS1.1

REMOVE EXISTING WALLS TO EXTENT SHOWN, WHILE PROTECTING SURROUNDING FINISHES. DISPOSE OF WALL MATERIALS REMOVE AND DISCARD EXISTING DOOR, FRAME, AND ASSOCIATED HARDWARE. DISPOSE OF MATERIALS APPROPRIATELY REMOVE AND PRESERVE EXISTING DOOR, FRAME, AND ASSOCIATED HARDWARE. RELOCATED AS INDICATED BY OWNER. 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 REMOVE EXISTING RAMP AND ALL ASSOCIATED COMPONENTS AND CONSTRUCTION, WHILE PROTECTING SURROUNDING FINISHES. PREPARE SUBFLOOR SURFACE FOR NEW FLOORING. DISPOSE OF MATERIALS APPROPRIATELY. REMOVE AND PRESERVE EXISTING APPLIANCES AND ASSOCIATED ACCESSORIES. RELOCATE OR DISPOSE OF AS DIRECTED BY OWNER. CAP AND CONCEAL LINES AS NECESSARY. 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. REMOVE AND DISCARD EXISTING DESK AND ASSOCIATED COMPONENTS AND CONSTRUCTION, WHILE PROTECTING SURROUNDING FINISHES. DISPOSE OF MATERIALS APPROPRIATELY. 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. REMOVE AND PRESERVE EXISTING LIGHTING FIXTURES. RELOCATE AS INDICATED ON A2.1. REMOVE EXISTING FLOOR FINISH MATERIAL WHILE PROTECTING SURROUNDING FINISHES. DISPOSE OF FLOOR FINISH MATERIAL APPROPRIATELY. PREPARE SUBFLOOR SURFACE FOR NEW FLOORING. REMOVE AND DISCARD EXISTING VINYL DECAL. PRIME WALL FOR NEW FINISH. REMOVE EXISTING ETCHING ON STOREFRONT, WHILE PROTECTING SURROUNDING FINISHES. 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. 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. 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. REMOVE WALL SCONCES AND PATCH WALL / PROVIDE NEW GYPSUM BOARD AS REQUIRED TO MATCH ADJACENT WALLS. DISPOSE OF WALL SCONCES APPROPRIATELY. 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. REMOVE AND PRESERVE EXISTING PROJECTOR SCREEN. RELOCATE AS DIRECTED BY OWNER. REMOVE BLACK OUT WINDOW TREATMENT WHILE PROTECTING SURROUNDING FINISHES. CLEAN WINDOWS. REMOVE AND DISCARD EXISTING BLACK CEILING TILES WHILE PROTECTING SURROUNDING FINISHES. 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. 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. REMOVE AND PRESERVE EXISTING FIRE EXTINGUISHER WHILE PROTECTING SURROUNDING FINISHES. RELOCATE AS SHOWN ON WORK AREA (LEVEL 2 AS DEFINED BY IEBC 301.3.2

Demolition Legend

General Demolition Notes

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

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

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

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.

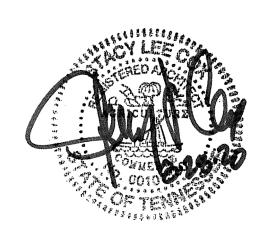
Demolition Plan



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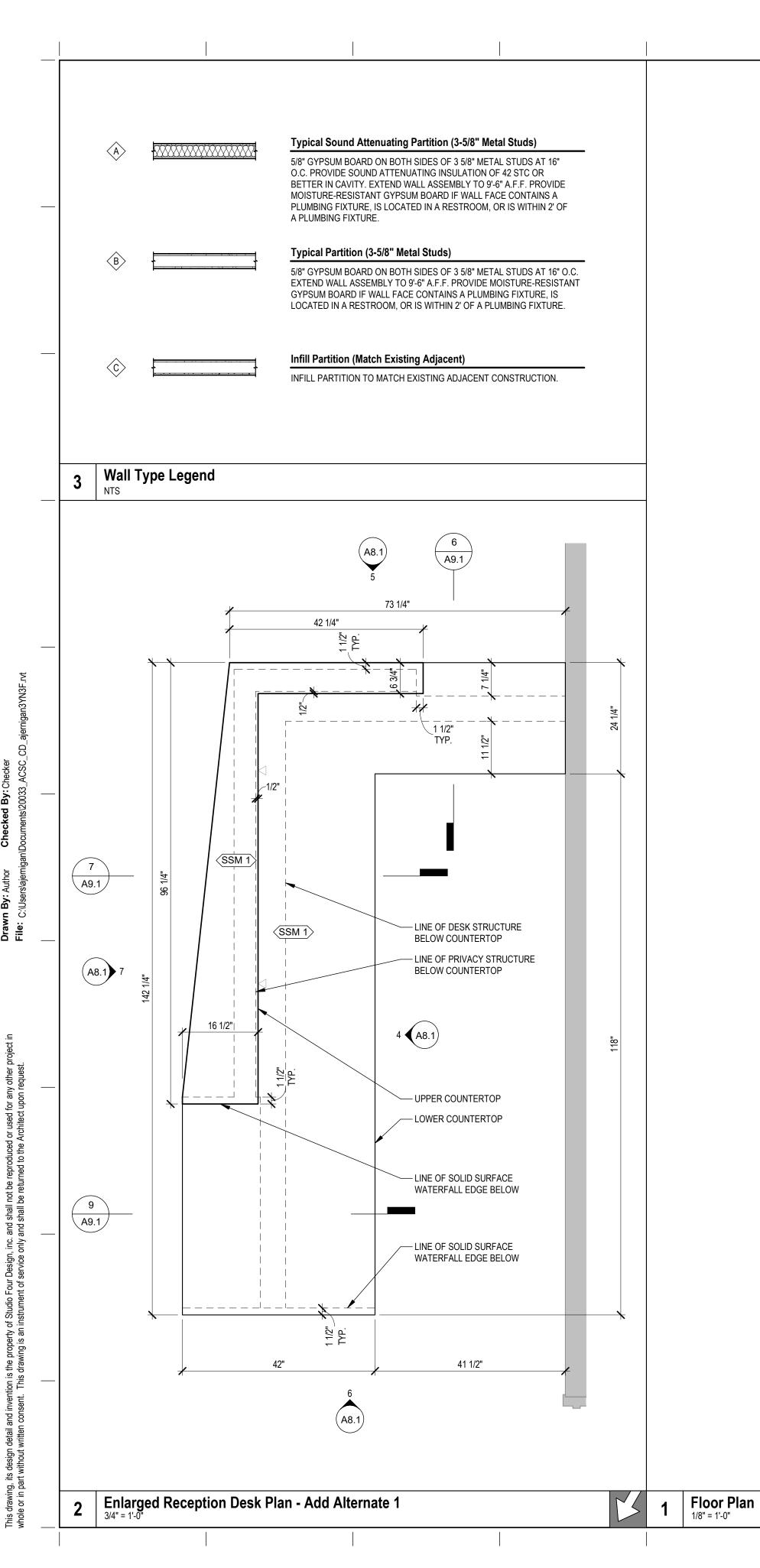


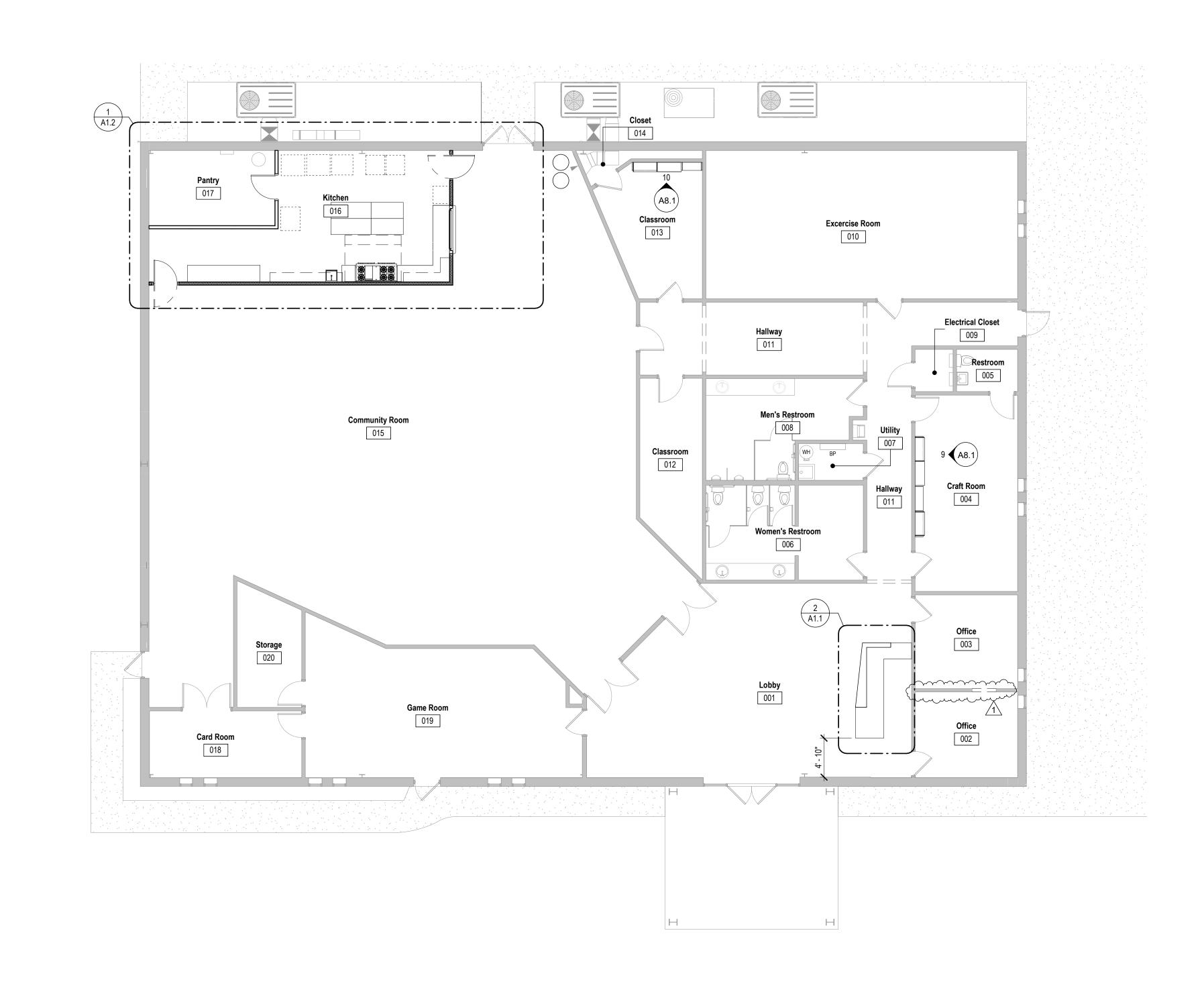
Project Phase: Construction Documents

Revisions									
No. Descripton Date									
1	Revision 1	08.28.2020							

Job Number:

Demolition Plan





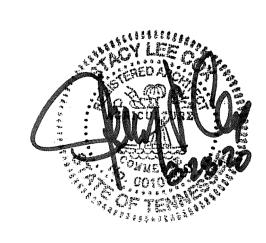
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Floor Plan

A1.1

Enlarged Kitchen Plan
1/2" = 1'-0"

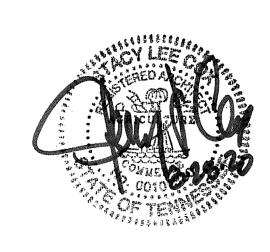
	Description	Dimensions	Manufacturer	Model Number	Furnished By	Installed By	Vendor	Quantity	Notes
$\langle 1 \rangle$	Commercial Gas Range w/ Double Oven	60" x 28-1/2" x 60-3/8"	eQuipped by KaTom	R10-G24	General Contractor	General Contractor	KaTom	1	
2>	3-Compartment Commercial Utility Sink	72" x 20" x 33-1/2"	Eagle Group	B6C-18	General Contractor	General Contractor	KaTom	1	
3>	Handwashing Sink	17" x 15"	Vollrath	K1410-CP	General Contractor	General Contractor	KaTom	1	Mount 34" A.F.F.
4	Ice Maker	26" x 26" x 40"	-	-	Owner	Owner	-	1	
5	Freezer	35" x 29" x 67-1/2"	-	-	Owner	Owner	-	1	
6	Freezer	35" x 31" x 73-1/2"	-	-	Owner	Owner	-	2	
$\langle 7 \rangle$	Refrigerator	30" x 32" x 65"	-	-	Owner	Owner	-	1	
8	Refrigerator	28" x 29 1/4" x 62"	-	-	Owner	Owner	-	2	
9>	Commercial Work Table	24" x 60" x 35-1/2"	Advance Tabco	TTF-245-X	Owner	Owner	-	2	
(10)	Commercial Work Table	24" x 48" x 35-1/2"	Advance Tabco	TTF-244-X	Owner	Owner	-	2	
<u>(11)</u>	Shelving Units	-	-	-	Owner	Owner	-	-	

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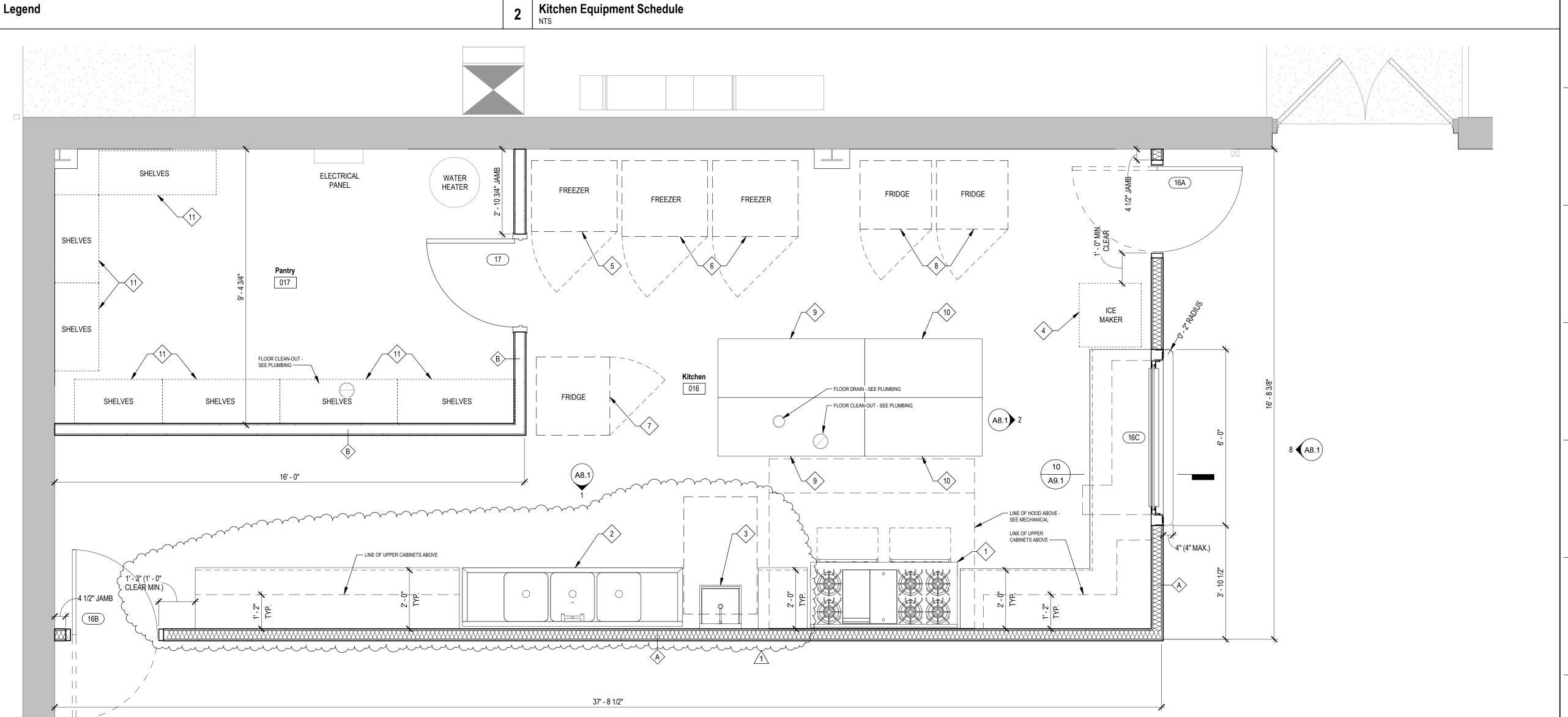
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Job Number: 20033
Kitchen Equipment Plan &

A1.2

Schedule



EXISTING CYLINDRICAL CAN PENDANT (TYPE A FIXTURE - SEE 3/A2.1) 2x2 SUPPLY DIFFUSER EXISTING GYPSUM BOARD CEILING GYPSUM BOARD CEILING EXISTING 2x2 ACOUSTICAL CEILING TILE EXISTING SUPPLY DIFFUSER 2x2 ACOUSTICAL CEILING TILE 2x2 RETURN REGISTER RELOCATED EXISTING CYLINDRICAL CAN PENDANT 2x4 LED RECESSED TROFFER (TYPE D FIXTURE - SEE 3/A2.1) EXISTING 2x4 TROFFER EXISTING RETURN REGISTER (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) REPACE DEMOLISHED CEILING TILES WITH WHITE TILES TO MATCH EXISTING 2 Reflected Ceiling Plan Legend PEMB MAIN FRAME RAFTER — ACT-1 9' - 0" PEMB MAIN FRAME RAFTER PEMB MAIN FRAME RAFTER \sim OTS \sim EXISTING SUPPLY DUCT TO REMAIN EXISTING SUPPLY DUCT TO REMAIN -PEMB MAIN
FRAME RAFTER EXISTING SUPPLY DUCT TO REMAIN — TEMP DESCRIPTION MANUFACTURER MODEL **MOUNTING HEIGHT** NOTES TYPE MARK CONTRACTOR TO INSTALL PAR38 LAMP EXISTING BLACK LED 3500K **EXISTING EXISTING** EXISTING HEIGHT PENDANT CYLINDER W/ 40 DEGREE REFLECTOR EXISTING PENDANT MOUNTED 1X4 FLOURESCENT **EXISTING** 3500K **EXISTING** 12'-0" AFF (3) 1x4 EXISTING GRD LLP 12FT 80CRI 35K LED 3500K PENDANT MOUNTED LITHONIA LIGHTING ID1500LMF 20/80 MIN10 12'-0" AFF PROVIDE UNISTRUT AS REQUIRED TO ZT SCT F2/144A C210 MOUNT LIGHT FIXTURES AS SHOWN IN REFLECTED CEILING PLAN. FIXTURE TO ALIGN WITH SURROUDING LED LINEAR TROFFER LED 3500K COLOMBIA LIGHTING CBT24-LS35 ACT Lighting Fixture Schedule Reflected Ceiling Plan

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Reflected Ceiling Plan

A2.1

	Finish Schedule											
					ľ	Millwork			Main Frame Finish		Other Structure Finish	
Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Horizontal	Vertical	Ceiling Finish	Comments		Ductwork Finish		
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	-	-	_	-	
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	-	-	-	-	
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	-	-	-	-	
010	Excercise 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	-	-	-	-	
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	-	-	-	-	
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.	-	-	-	

Finish Schedule

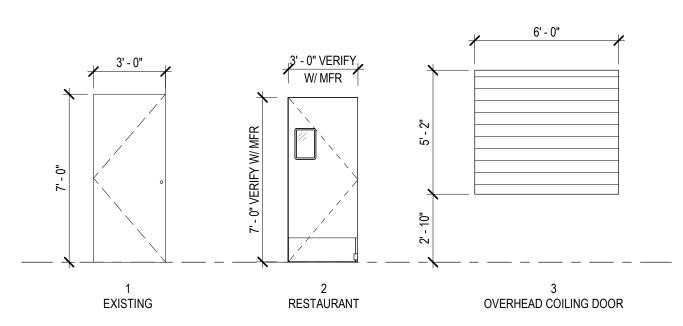
						Finish Index				
Material Code	Material Name	Manufacturer	Collection	Product Number	Product Name	Size	Color Number	Color Name	Installation Method	Comments
ACT	ACOUSTIC CEILING TILE	ARMSTRONG	MINERAL FIBER & FIBERGLASS	-	-	24" x 24"	WH	WHITE	-	-
DR 1	DOORS - RESTAURANT	ELIASON	LIGHT DUTY RESTAURANT DOORS	ENG-1	TRAFFIC DOOR	SEE DOOR SCHEDULE		WILD CHERRY		1 A
DR 2	DOORS - OVERHEAD ROLLING	CORNELL	ROLLING COUNTER DOOR	ESC10	-	SEE DOOR SCHEDULE	E { 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

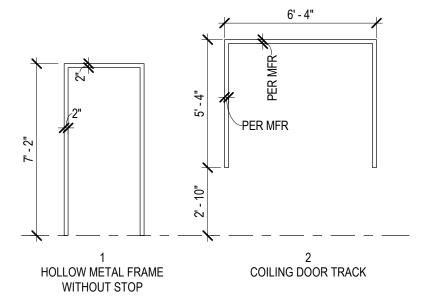
Door Schedule

	Door Schedule										
	Door Fram									Hardware	
		Size					Frame	Frame	1		
Door Number	Width	Height	Thickness	Door Material	Door Type	Door Finish	Material	Type	Frame Finish	Hardware	Notes
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 PNT 6	PER MFR*)	SILL HEIGHT TO BE AS SHOWN IN 10/A9.1.
17	3' - 0"	7' - 0"	0' - 1 3/4"	ETR	1	ETR	НМ	1	PNT 6	ETR 1	REINSTALL EXISTING DOOR, JAMB, AND HARDWARE.

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

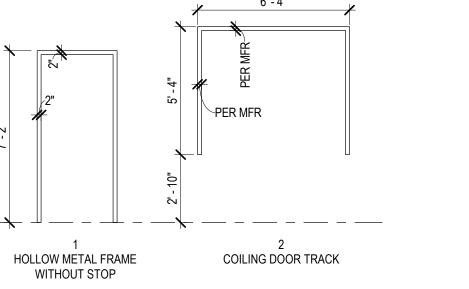


Door Types 1/4"=1'-0"



Door Frames

1/4"=1'-0"



1 General Finish Notes

FINISH AB	BREVIATIONS				
Α		Р			
AFF ACT	Above Finished Floor Acoustical Ceiling Tile	PNT PLAM PWC	Paint Plastic Laminate Plastic Wall Covering		
В		PC POLY	Polished Concrete Poly Resin		
BBT	Bio-Based Tile	PT	Porcelain Tile		
С		Q			
CT COM	Ceramic Tile Customer Owned Material	QTZ	Quartz		
CONC CG	Concrete (Sealed) Corner Guard	R			
	Comer Guard	RUB	Rubber Base		
E		S			
EPXY ETR	Epoxy Existing To Remain	SHT-V SHT-RUB	Sheet Vinyl Sheet Rubber		
G		SSM	Solid Surface		
GYP	Gypsum Wall Board	SC SST SSF	Stained Concrete Stainless Steel Synthetic Stone		
1		V			
IB	Integral Base	VCT	Vinyl Composition Tile		
L		VWC WMCT	Vinyl Wallcovering Wire Management Cable Tray		
LVT	Luxury Vinyl Tile		Wife Management Cable Tray		
M		W			
MFR	Manufacturer	WD	Wood		
0					
OFCI	Owner Furnished, Contractor Installed				

2 Finish Abbreviations

- 1. REFER TO GENERAL NOTES ON T0.0
- 2. REFER TO A7.0 FOR FINISH SCHEDULE AND LEGEND.

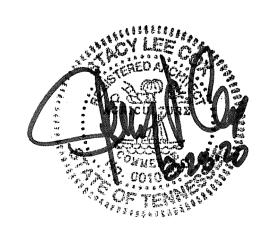
Owner Furnished, Owner Installed

- GENERAL CONTRACTOR AND/OR SUBCONTRACTOR TO VERIFY LEAD TIMES AT TIME OF
- GENERAL CONTRACTOR TO FIELD VERIFY EXISTING WALL, FLOOR, AND CEILING CONDITIONS PRIOR TO CONSTRUCTION. ALL WALL PREP, FLOOR PREP, AND REQUIRED ADDTIONAL PREP TO RECEIVE SPECIALTY FINISHES SHALL BE INCLUDED IN THE SCOPE OF
- GYPSUM BOARD CONTROL AND EXPANSION JOINTS ARE TO BE INSTALLED AS REQUIRED BY THE U.S. GYPSUM ASSOCIATION.
- 6. DRYWALL SUBCONTRACTOR TO REFER TO MANUFACTURER'S RECOMENDATIONS 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
- DISCREPENCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS.
- 9. ALL FLOOR TILE TO BE INSTALLED PER TCNA F128-12 AND TCNA EJ171 COORDINATE EXPANSION JOINT LOCATIONS PER STRUCTURAL DRAWINGS.
- 10. ALL WALL TILE TO BE INSTALLED PER TCNA 1243-12.
- 11. 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 SHOW OTHERWISE. ALL FLOOR TRANSITIONS TO BE LEVEL AND FLUSH.
- 13. 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 INSTALLAED 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
- 16. ANY LOCATION WHERE ACCENT WALL PAINT DOES NOT TERMINATE AT WALL CORNER WILL REQUIRE A GWB REVEAL.
- 17. 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.

ARCHITECTURE & INTERIORS 414 Clinch Ave. Knoxville, TN 37902 p 865 523-5001 f 865 523-5003 studiofourdesign.com

STUDIO

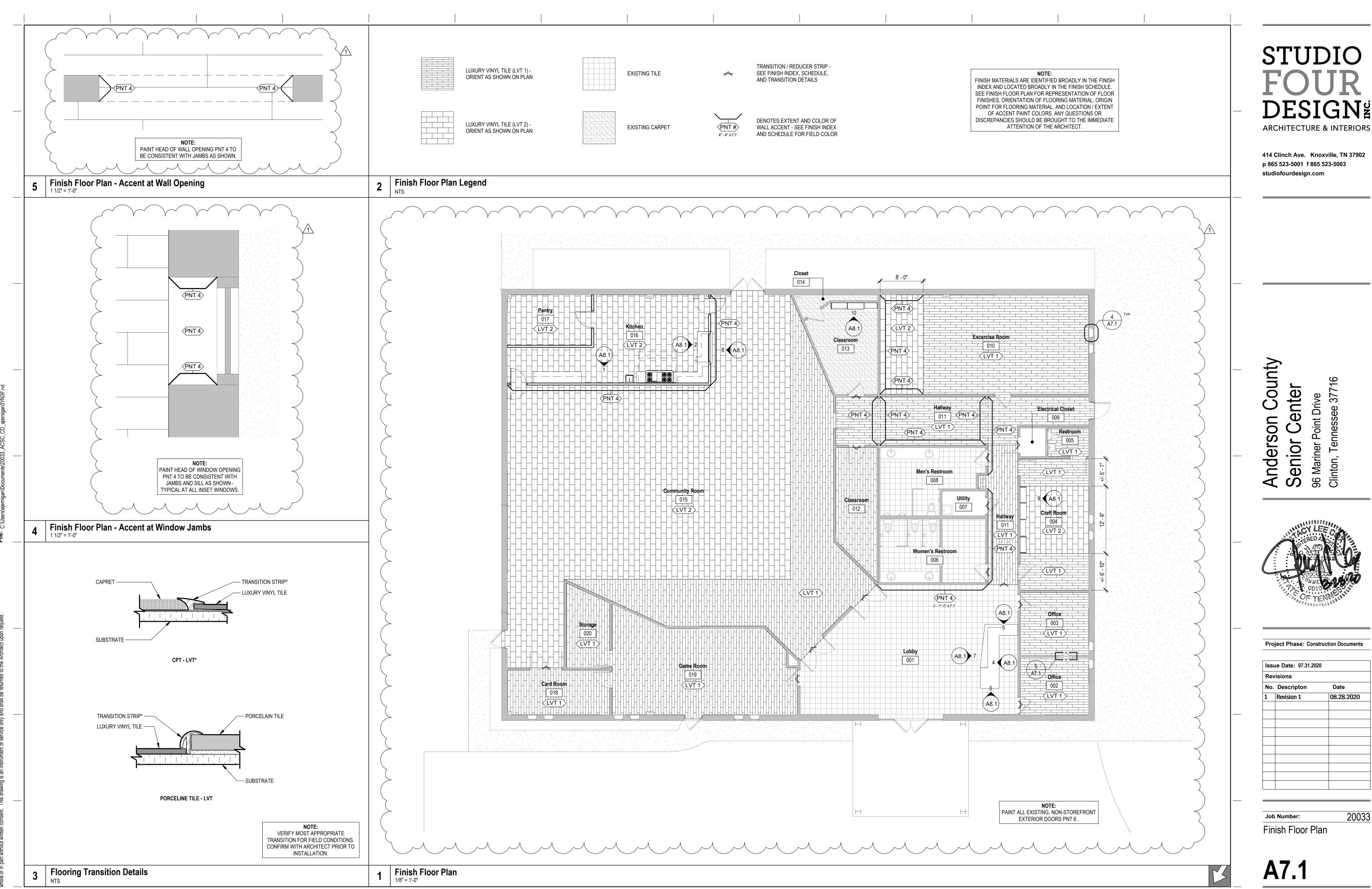
County Anderson Senior



Project Phase: Construction Documents

Rev	risions	
No.	Descripton	Date
1	Revision 1	08.28.2020

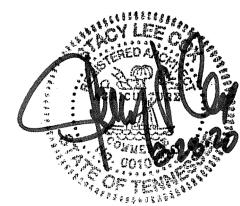
Door Schedule, Finish Index & Schedule





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County Senior Center Anderson

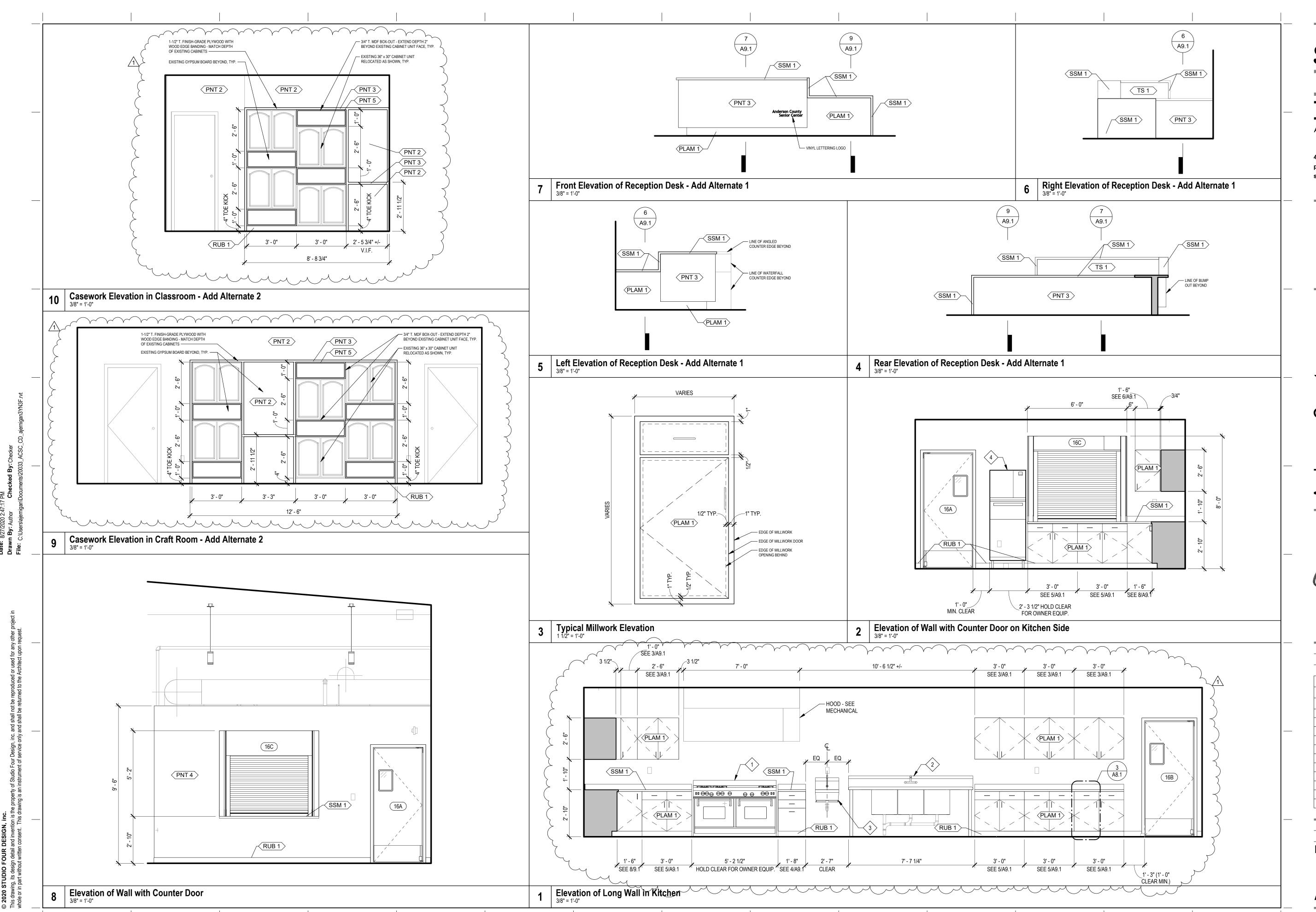


Project Phase: Construction Documents

lss	sue Date: 07.31.202	20
Re	visions	
No	. Descripton	Date
1	Revision 1	08.28.2020

20033 Job Number: Finish Floor Plan

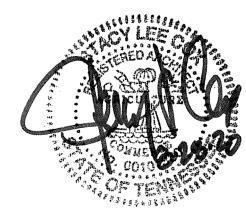
A7.1



STUDIO FOUR DESIGNE

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Anderson County Senior Center

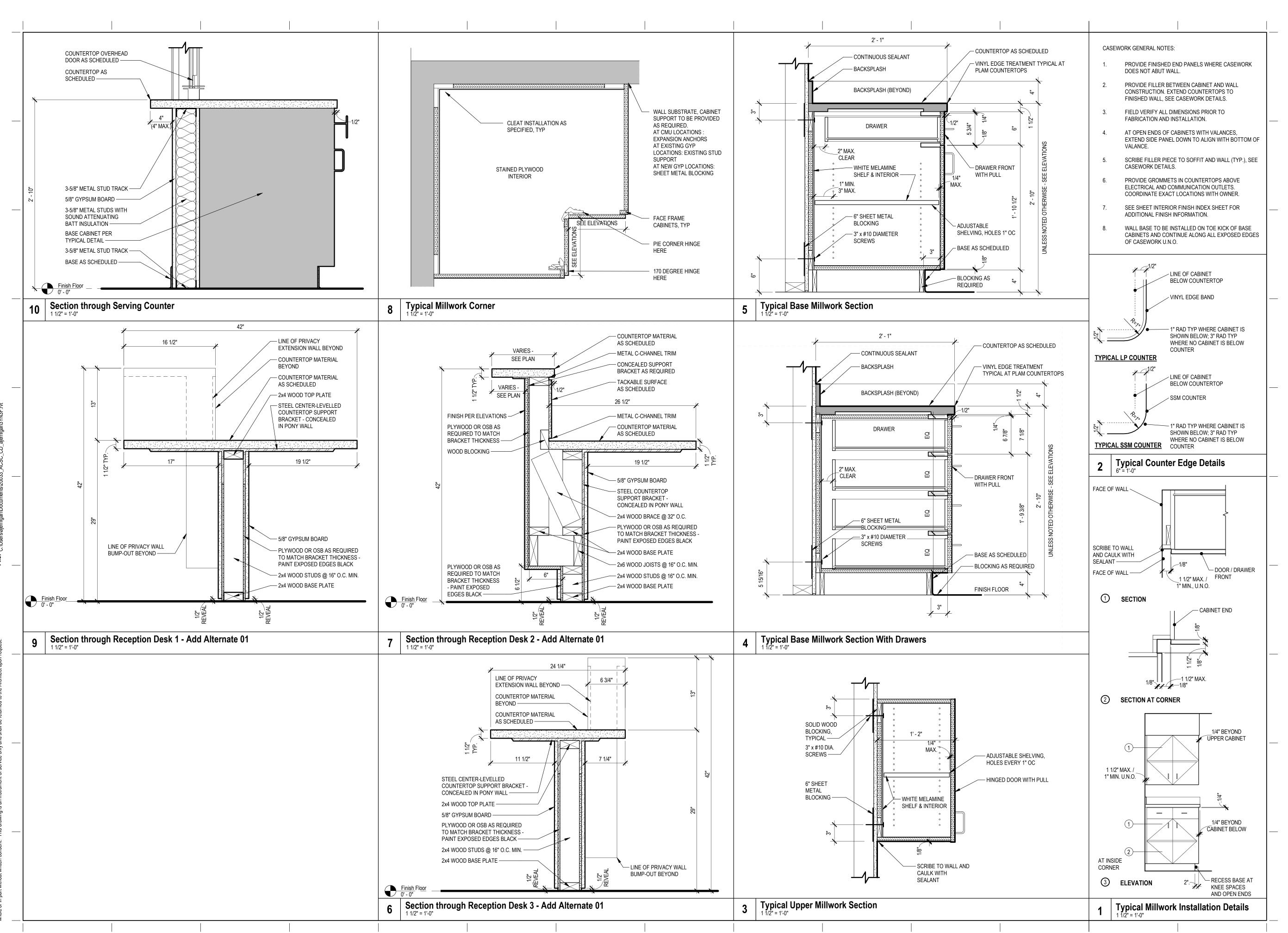


Project Phase: Construction Documents

Rev	/isions	
No.	Descripton	Date
1	Revision 1	08.28.2020

Job Number: 20033
Interior Elevations

A8.1



STUDIO FOUR DESIGN

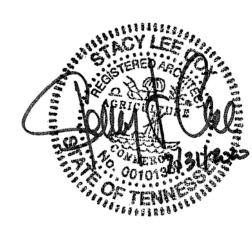
414 Clinch Ave. Knoxville, TN 37902

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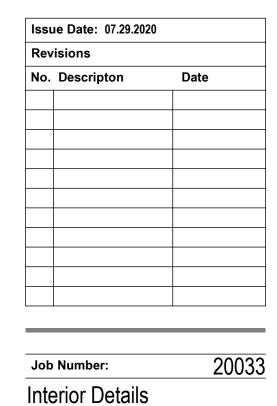
studiofourdesign.com

ARCHITECTURE & INTERIORS

Anderson County
Senior Center
96 Mariner Point Drive



Project Phase: Construction Documents



A9.1

SPECIFICATIONS

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

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).

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 21/2" 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'-O" 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 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, I" 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 B16.22.

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 3 | 2.10.2. CONTRACTOR SHALL PROVIDE CERTIFICATIONS THAT STATE DEVICES HAVE BEEN TESTED AND APPROVED.

THERMOMETERS SHALL BE 9" ADJUSTABLE ANGLE, 30°-180°F RANGE (TRERICE BX9 OR EQUAL). PRESSURE GAUGES SHALL BE 41/2" DIAL SIZE, 0-160PSI (TRERICE 600CB OR

CONTRACTOR SHALL FIELD VERIFY INCOMING DOMESTIC WATER PRESSURE. WHERE PRESSURE EXCEEDS 80PSI, PROVIDE PRESSURE REGULATING VALVE (WATTS LF223) AND UPSTREAM STRAINER (WATTS LSF777).

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.

INSULATE ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING IN ACCORDANCE WITH IECC TABLE C403.2.10. PIPE UP TO 11/4": I" THICK INSULATION. PIPE 11/2" 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 I": 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 B I 6.3 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 C I O SERIES OR EQUAL). PROVIDE SUPPORT AT EVERY ELBOW. THE MAXIMUM SPACING OF SUPPORTS SHALL BE: 1/2" PIPE: 5'-0", 3/4" TO 11/4" PIPING: 6'-0", 11/2" 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 I 50PSI 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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Revisions						
No. Desc	ripton	Date				

SPECIFICATIONS

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7 (00)	EVIATIONS		
AAV	AIR ADMITTANCE VALVE	HWR	HOT WATER RETURN
A/C	ABOVE CEILING	IMB	ICE MACHINE BOX
A/F	ABOVE FLOOR	IE	INVERT ELEVATION
AFF, AFG	ABOVE FINISHED FLOOR/GRADE	L, LAV	LAVATORY
B/F	BELOW FLOOR	МВН	1 000 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
FS	FLOOR SINK	V	VENT
FWH	FREEZEPROOF WALL HYDRANT	VTR	VENT THROUGH ROOF
GCO	GRADE CLEANOUT	WC	WATER CLOSET
Gl	GREASE INTERCEPTOR	W.C.	WATER COLUMN
НВ	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
OWZ	OIL WASTE PIPE
EST	EMERGENCY STORM PIPE
ST	STORM PIPE
	VENT PIPE
========	PIPING B/F

PLUMBING FIXTURE SCHEDULE

					WATER	RUNOUT	WATER	. CONN.	
MARK	DESCRIPTION	WASTE RUNOUT	WASTE CONN.	VENT	CW	HW	CW	HW	SPECIFICATION
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.
FS-I	FLOOR SINK	3"	3"	2"					CAST IRON FLOOR SINK WITH ACID RESISTANT COATED INTERIOR AND BOTTOM DOME STRAINER (J.R. SMITH 3 40), 6" DEEP. COORDINATE /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-I	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 LF009-QT (ASSE 1013).
ET-I	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-I	50 GAL	54 GPH @ 90° RISE	l 40°	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 (GL. I.)

C	CALCULA	ATIONS	BASED ON	PLUMBING DRAINAGE INSTITUTE'S STANDARD P INTERCEPTORS" (REV. APF	•	3.2 "PR	COCED	URE FO	OR SIZ	ING GREASE
18	20	18	QTY=3	THREE COMPARTMENT SINK	(2013)	18 x	20 x	18 x	3 =	19440 CU IN
				TOTAL VOLUME (CU IN)						19440 CU IN
				TOTAL VOLUME (GAL)	19440 CU IN	X (10	GAL/23	31 CU	IN) =	84 GAL
				TOTAL DRAINAGE VOLUME (75% FULL)	84 GAL		ΧО.	75 =		63 GAL
				FLOWRATE (2 MINUTE DRAINAGE PERIOD)	63 GAL		/2N	AIN =		32 GPM
	.5 GPM		QTY= I	HAND SINK		PE	EAK FL	OWRA1	E:	.5 GPM
				TOTAL PEAK FLOW						32.1 GPM

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

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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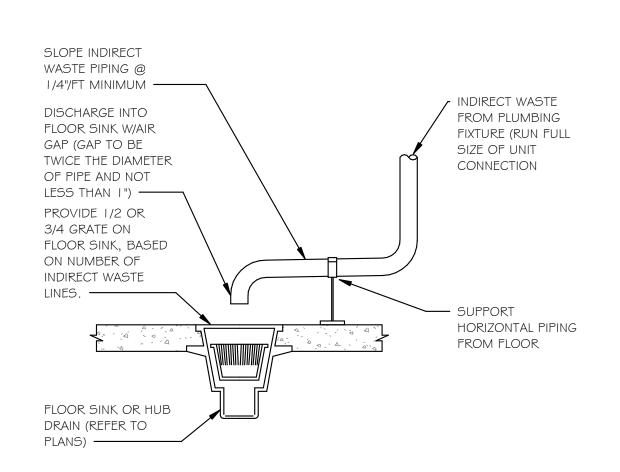
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Job Number: SCHEDULES, LEGEND & **ABBREVIATIONS**

EQUIPMENT -RESTRAINING CABLE FURNISHED BY EQUIPMENT SUPPLIER, MOUNTED BY EQUIPMENT INSTALLER ----FLEXIBLE GAS HOSE WITH QUICK DISCONNECT, MUST COMPLY WITH ANSI Z 21.69 -ADJUSTABLE HANGER ---BOT. @ 8" A.F.F. HORIZONTAL GAS LINE REGULATOR FURNISHED BY MANIFOLD, SHUT-OFF VALVE EQUIPMENT SUPPLIER, AND WALL 'STAND-OFFS' INSTALLED BY PLUMBING FURNISHED AND INSTALLED CONTRACTOR BY PLUMBING CONTRACTOR

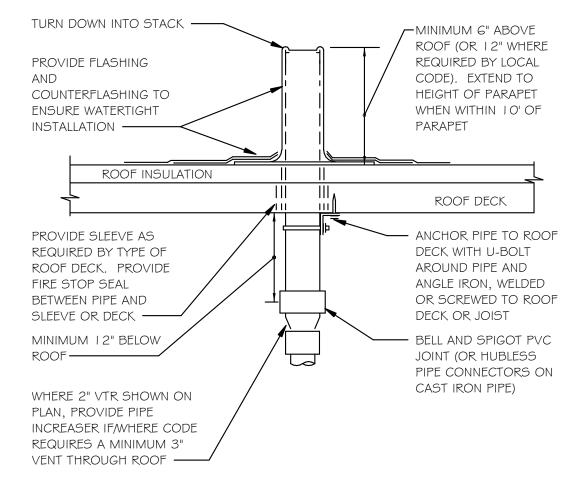
TYPICAL GAS FIRED KITCHEN

KITCHEN GAS EQUIPMENT CONNECTION P0.3 N.T.S.



2 INDIRECT WASTE DETAIL

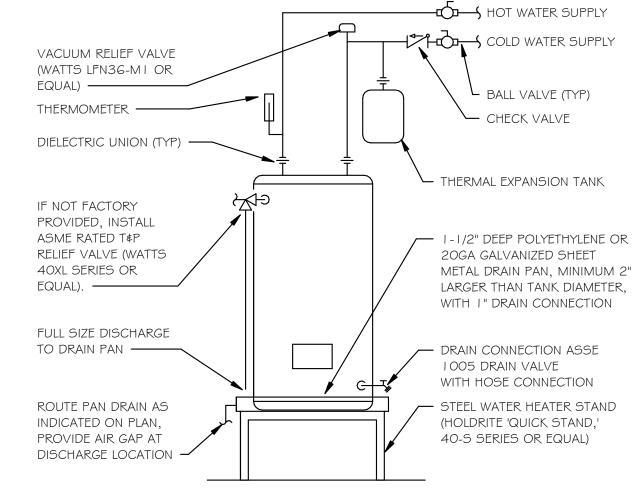
P0.3 N.T.S.



IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE PROPER INSTALLATION METHODS TO ENSURE ROOF PENETRATION IS WATERTIGHT. LOCATE VTR MINIMUM FIFTEEN FEET (15'-0") HORIZONTAL FROM ANY FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

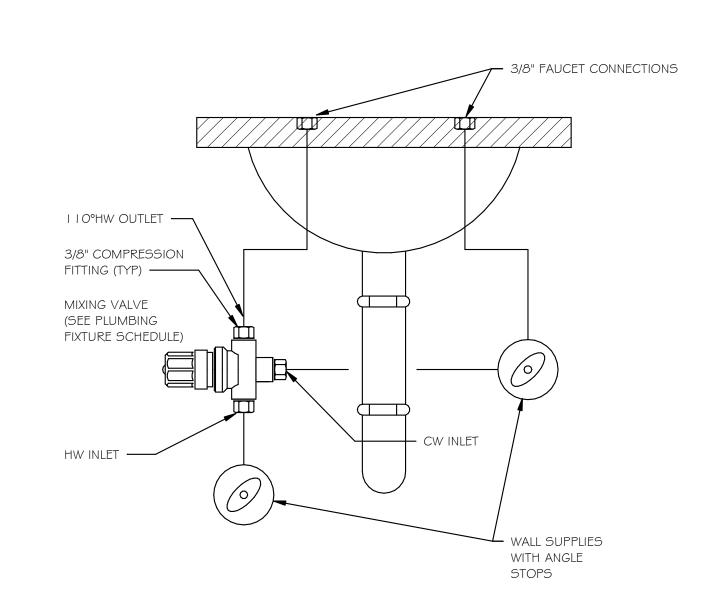
VENT THROUGH ROOF (VTR)

P0.3 N.T.S.



ELECTRIC WATER HEATER

P0.3 N.T.S.



POINT OF USE MIXING VALVE
PO.3 N.T.S.

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Anderson County Senior Center

Center 96 Mariner Point I



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

Job Number: 20033
RISER DIAGRAMS

P0.4

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. 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. - HOLD GAS PIPING TIGHT TO EXTERIOR WALL 上=:S==⊐

OVERALL FLOOR PLAN - PLUMBING

KEYNOTES

GENERAL NOTES

A. WHERE DRAWINGS REQUIRE CONNECTION TO EXISTING SANITARY SEWER

THERE IS A POTENTIAL ISSUE MAINTAINING PROPER SLOPE IN

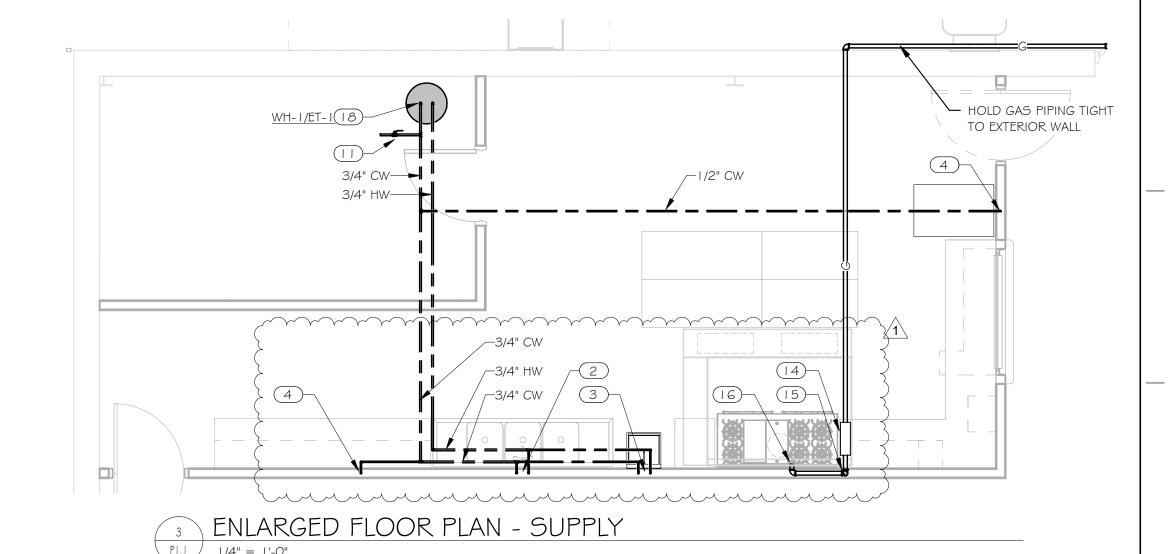
PIPING IN BUILDING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD DETERMINE EXACT LOCATION, DEPTH AND DIRECTION OF FLOW PRIOR TO

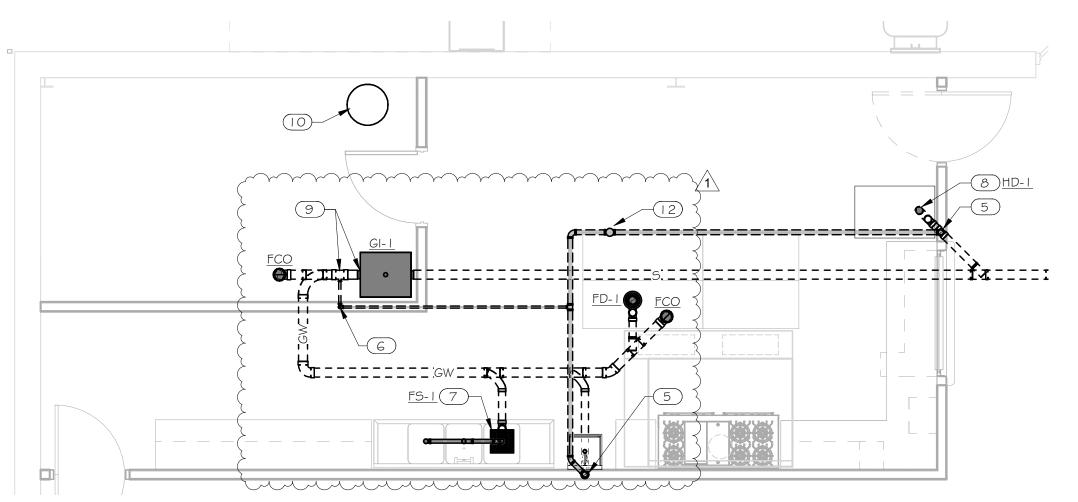
COMMENCING WORK. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER IF

- 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.
- GAS SUPPLY DN W/DIRT LEG # A/F TO GAS FIRED APPLIANCE
- FULL CONNECTION SIZE, VALVED FLEXIBLE GAS CONNECTION FROM GAS
 HEADER TO GAS FIRED APPLIANCE (SEE DETAIL). INSTALL VALVES IN
 ACCESSIBLE LOCATION BEHIND EQUIPMENT.
- 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" | 40°HW TO WATER HEATER INSTALLATION, SEE DETAIL

KEYNOTES

- 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 <u>FS-I</u>. DISCHARGE ALL NEARBY INDIRECT WASTE CONNECTIONS FULL SIZE WAIR GAP AT LEAST TWICE THE DIAMETER OF INDIRECT WASTE PIPE (SEE DETAIL). FIELD COORDINATE WITH INSTALLED EQUIPMENT.
- 8 3" HUB DRAIN <u>HD-1</u>. DISCHARGE ALL NEARBY INDIRECT WASTE CONNECTIONS FULL SIZE WAIR 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 GI-I, PDI APPROVED. ROUTE 3/4" VENT FROM MANUFACTURER'S FLOW CONTROL FITTING B/F \$ UP
- 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.





2 ENLARGED FLOOR PLAN - WASTE & VENT

PI.I /4" = 1'-0"

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Clinton, TN 37716



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Revisions						
No. Descripton Date						
1	Revision 1	08.28.2020				

Job Number: 20033 FLOOR PLANS

P1.1

SPECIFICATIONS

DUCTWORK AND ACCESSORIES:

INDUSTRY STANDARDS: COMPLY WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION) HVAC DUCT CONSTRUCTION STANDARDS, RECOMMENDATIONS FOR FABRICATION, GAUGES, CONSTRUCTION AND DETAILS, AND INSTALLATION PROCEDURES, EXCEPT AS OTHERWISE INDICATED.

COMPLY WITH ASHRAE (AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS) FUNDAMENTALS HANDBOOK RECOMMENDATIONS, EXCEPT AS OTHERWISE INDICATED.

DUCTWORK METAL AND GAUGES: EXCEPT AS OTHERWISE INDICATED, FABRICATE DUCTWORK FROM GALVANIZED SHEET STEEL COMPLYING WITH ASTM A527, LOCKFORMING QUALITY, WITH ASTM A525 G90 ZINC COATING, MILL PHOSPHATIZED. GAUGES TO COMPLY WITH SMACNA STANDARDS.

DUCT SEALANT: NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT (TYPE APPLICABLE FOR THE FABRICATION/INSTALLATION DETAIL) AS COMPOUNDED AND RECOMMENDED BY THE MANUFACTURER SPECIFICALLY FOR SEALING JOINTS AND SEAMS IN DUCTWORK.

DUCTWORK SUPPORT MATERIALS: EXCEPT AS OTHERWISE INDICATED, PROVIDE UPPER ATTACHMENT, HANGERS OF GALVANIZED STEEL STRAPS, OR STEEL RODS AND LOWER ATTACHMENT FOR SUPPORT OF DUCTWORK. HANGING/SUPPORT SYSTEMS SHALL BE IN ACCORDANCE WITH SMACNA REQUIREMENTS.

EXPOSED DUCTWORK SHALL BE DOUBLE-WALL SPIRAL PIPE WITH PAINT GRIP UNLESS OTHERWISE NOTED OR SUBSTITUTION APPROVED BY OWNER.

VOLUNTARY ALTERNATE EXPOSED DUCTWORK SHALL BE SINGLE-WALL SPIRAL PIPE UNLESS OTHERWISE NOTED OR SUBSTITUTION APPROVED BY OWNER. ALL EXPOSED DUCTWORK SHALL BE LINED IN LIEU OF WRAPPED. DUCT LINER THERMAL RESISTANCE SHALL MEET THE MINIMUM VALUES SPECIFIED IN PARAGRAPH 'DUCT INSULATION' BELOW.

DUCT INSULATION:

R-5 SUPPLY, OUTSIDE AND RETURN AIR DUCT INSULATION IN UNCONDITIONED SPACES R-8 SUPPLY AND RETURN AIR DUCT INSULATION OUTSIDE THE BUILDING R-8 INSULATION BETWEEN DUCTS AND THE BUILDING EXTERIOR WHEN DUCTS ARE PART OF A BUILDING ASSEMBLY

DIFFUSERS, GRILLES, & REGISTERS:

EGGCRATE GRILLE:

RETURN GRILLES SHALL BE TITUS MODEL 50F FOR THE SIZES AND MOUNTING TYPES AS SHOWN ON THE PLANS AND OUTLET SCHEDULE. RETURN GRILLES MUST PROVIDE A FREE AREA OF AT LEAST 90%. OUTER BORDERS SHALL BE CONSTRUCTED OF HEAVY EXTRUDED ALUMINUM WITH A THICKNESS OF 0.040-0.050 INCH AND SHALL HAVE COUNTERSUNK SCREW HOLES FOR A NEAT APPEARANCE. BORDER WIDTH SHALL BE 11/4 INCHES ON ALL SIDES AND SHALL BE INTERLOCKED AT THE FOUR CORNERS AND MECHANICALLY STAKED TO FORM A RIGID FRAME. CHOICE OF THREE SIZES OF ALUMINUM GRID: 1/2 X 1/2 X 1/2 INCH, 1/2 X 1/2 X | INCH, OR | X | X | INCH SHALL BE AVAILABLE.

OPTIONAL OPPOSED-BLADE VOLUME DAMPER SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL OR ALUMINUM. DAMPER MUST BE OPERABLE FROM THE FACE OF THE GRILLE.

TEST AND BALANCE:

THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT TEST AND BALANCE MANUFACTURER TO PERFORM THE TESTING AND BALANCING AND PREPARE REPORTS TO THE GENERAL CONTRACTOR. THE INDEPENDENT TEST AND BALANCE AGENCY SHALL HAVE A CERTIFIED MEMBER OF THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB).

TEST AND BALANCE SHALL ALSO PROVIDE QUOTE TO PERFORM BALANCING FOR COMFORT SIX MONTHS AFTER THE SPACE IS OCCUPIED.

P-TAB.COM OR EQUIVALENT.

SPECIFICATIONS

EXISTING CONDITIONS:

CONTRACTOR SHALL VISIT THE SITE AND UNDERSTAND JOB CONDITIONS BEFORE SUBMITTING A PROPOSAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS AND SIZES OF ALL EXISTING UTILITY SERVICES PRIOR TO SUBMITTING HIS PROPOSAL. NO CONSIDERATION WILL BE GIVEN TO CLAIMS FOR EXTRA COST ARISING FROM CONTRACTOR'S FAILURE TO BE FULLY COGNIZANT OF JOB OR SITE CONDITIONS EXISTING AT TIME OF ACCEPTANCE OF BID.

ACTIVE SERVICES: WHEN ENCOUNTERED IN WORK, PROTECT, BRACE, SUPPORT EXISTING ACTIVE SEWERS, GAS AND OTHER SERVICES REQUIRED FOR PROPER EXECUTION OF WORK. IF EXISTING ACTIVE SERVICES ARE ENCOUNTERED THAT REQUIRE RELOCATION, RELOCATE AS APPROVED. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES THAT ARE TO REMAIN.

INACTIVE SERVICES: WHEN ENCOUNTERED IN WORK, REMOVE, CAP OR PLUG INACTIVE SERVICES, AS INDICATED.

INTERRUPTION OF SERVICES: WHERE WORK MAKES TEMPORARY SHUT-DOWNS OF SERVICES UNAVOIDABLE, SHUT DOWN AT NIGHT, OR AT SUCH TIMES AS APPROVED BY OWNER, WHICH WILL CAUSE LEAST INTERFERENCE WITH ESTABLISHED OPERATING ROUTINE. ARRANGE WORK TO ASSURE THAT SERVICES WILL BE SHUT DOWN ONLY DURING TIME ACTUALLY REQUIRED TO MAKE NECESSARY CONNECTION TO EXISTING WORK.

WHERE EXISTING WALLS, CEILINGS, FLOORS, ETC., ARE CUT OR OTHERWISE DAMAGED DURING CONSTRUCTION, REPAIR ALL SURFACES TO THEIR ORIGINAL CONDITION.

SHOP DRAWINGS:

SUBMITTALS SHALL BE SUPPORTED BY DESCRIPTIVE MATERIAL, SUCH AS CATALOG CUTS, DIAGRAMS, PERFORMANCE CURVES AND CHARTS PUBLISHED BY THE MANUFACTURER, TO SHOW CONFORMANCE TO SPECIFICATION AND DRAWING REQUIREMENTS; MODEL NUMBERS ALONE WILL NOT BE ACCEPTABLE. ALL LITERATURE SHALL CLEARLY INDICATE THE SPECIFIED MODEL NUMBER, DIMENSIONS, ARRANGEMENT, RATING AND CHARACTERISTICS OF THE PROPOSED EQUIPMENT. CAPACITIES AND RATINGS SHALL BE BASED ON CONDITIONS INDICATED OR SPECIFIED HEREIN. ANY DEVIATIONS FROM SPECIFIED EQUIPMENT (PARTICULARLY THOSE WHICH REQUIRE COORDINATION WITH OTHER TRADES) SHALL BE CLEARLY NOTED IN A CONCISE LIST ON A SEPARATE SHEET.

GUARANTEE THAT EACH PIECE OF APPARATUS SHALL BE OF THE CUSTOMARY STANDARD AND QUALITY FURNISHED BY THE DESIGNED MANUFACTURER FOR THAT CATALOG NUMBER.

GUARANTEE THAT THE AIR SYSTEMS SHALL OPERATE WITHOUT AERODYNAMIC NOISE GENERATED FROM THE FAULTY INSTALLATION OF DUCT WORK OR ANY COMPONENT OF THE AIR DISTRIBUTION SYSTEM.

GUARANTEE THAT ALL SYSTEMS AND COMPONENTS SHALL BE PROVIDED WITH A ONE YEAR WARRANTY FROM THE TIME OF DATE OF SUBSTANTIAL COMPLETION. THE WARRANTY SHALL COVER ALL MATERIALS AND WORKMANSHIP. DURING THIS WARRANTY PERIOD, ALL DEFECTS IN MATERIALS AND WORKMANSHIP SHALL BE CORRECTED BY REPAIR OR REPLACEMENT WITHOUT INCURRING ADDITIONS TO THE CONTRACT.

GENERAL NOTES:

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.

ALL DUCT DIMENSIONS INDICATED IN THESE DOCUMENTS ARE INSIDE-CLEAR DIMENSIONS.

PORTIONS OF DUCTWORK OR PIPING VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK. PAINT BLACK BEHIND ALL GRILLES.

ALL WIRING IN THE CEILING PLENUM SHALL BE PLENUM RATED CABLE.

MOUNTING FRAME OF CEILING MOUNTED AIR DISTRIBUTION DEVICES SHALL BE COMPATIBLE WITH CEILING TYPE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE.

ALL FIRE SEPARATIONS MUST BE PROTECTED WHEN APPLICABLE.

PROVIDE NEW FILTERS (MERV 7 OR BETTER PER OWNER) FOR ALL APPLICABLE HVAC EQUIPMENT AT THE END OF CONSTRUCTION.

ALL MATERIAL IN PLENUM MUST MEET FIRE AND SMOKE SPREAD AS REQUIRED BY NFPA

ALL ROOF PENETRATIONS TO BE 12" APART AND AT LEAST 12" AWAY FROM CURBS, WALLS, AND DRAIN SUMPS TO PROVIDE ROOFING CONTRACTOR WITH SUFFICIENT ACCESS FOR FLASHING EACH ROOF PENETRATION.

SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ARCHITECT PRIOR TO BID SUBMISSION.

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.

THE CONTRACTOR SHALL REFERENCE THE FULL SET OF CONSTRUCTION DOCUMENTS DURING PRICING AND CONSTRUCTION FOR COORDINATION BETWEEN DISCIPLINES RELATIVE TO THE MECHANICAL SCOPE.

ABB	REVIATIONS		
AFF	ABOVE FINISHED FLOOR	MAU	MAKE-UP AIR UNIT
AHU	AIR HANDLING UNIT	MAV	MANUAL AIR VENT
CO2	CARBON DIOXIDE	МВН	I,000 BTU PER HOUR
D	CONDENSATE DRAIN	MFCU	MINI FAN COIL UNIT
DB	DRY BULB	MHP	MINI HEAT PUMP
EA	EXHAUST AIR	MVD	MANUAL VOLUME DAMPER
EDH	ELECTRIC DUCT HEATER	NC	NORMALLY CLOSED
EF	EXHAUST FAN	NO	NORMALLY OPEN
ESP	EXTERNAL STATIC PRESSURE	OA	OUTSIDE AIR
EWH	ELECTRIC WALL HEATER	OBD	OPPOSED BLADE DAMPER
F	DEGREES FAHRENHEIT	PDU	POOL DEHUMIDIFYING UNIT
FCU	FAN COIL UNIT	PIU	POWER INDUCTION UNIT
FD	FIRE DAMPER	RA	RETURN AIR
FSD	COMB. FIRE/SMOKE DAMPER	RH	RELIEF HOOD
Н	HUMIDISTAT	RTU	ROOFTOP UNIT
IH	INTAKE HOOD	SA	SUPPLY AIR
LAT	LEAVING AIR TEMPERATURE	SP	STATIC PRESSURE
LWT	LEAVING WATER TEMPERATURE	UC	UNDER CUT DOOR
М	MOTOR	VAV	VARIABLE AIR VOLUME
МА	MAKE-UP AIR	WB	WET BULB

LEGEND	
SYMBOLS	DESCRIPTION
_XI _X2	DIFFUSER, GRILLE, REGISTER OR LOUVER TAG XI = TYPE, X2 = CFM
	POSITIVE PRESSURE (AIR GOES OUT) DIFFUSER OR REGISTER, 4-WAY AIR PATTERN (UNLESS OTHERWISE NOTED)
	NEGATIVE PRESSURE (AIR GOES IN) GRILLE
 →	POSITIVE PRESSURE AIRFLOW (TYP. SUPPLY)
—√→	NEGATIVE PRESSURE AIRFLOW (TYP. RETURN/EXHAUST)
111111	FLEXIBLE DUCT
Γ	MANUAL VOLUME DAMPER (MVD)
FD_	VERTICAL (TYP. WALL) FIRE DAMPER
FSD	VERTICAL (TYP. WALL) COMBINATION FIRE/SMOKE DAMPER
FD	HORIZONTAL (TYP. FLOOR/CEILING) FIRE DAMPER
FSD	HORIZONTAL (TYP. FLOOR/CEILING) COMBINATION FIRE/SMOKE DAMPER
T	THERMOSTAT
H	HUMIDISTAT
	INTERNALLY LINED DUCT
	DUCT UP
	DUCT UP
	DUCT DN
	SUPPLY DUCT
UNIT #	EQUIPMENT TYPE EQUIPMENT NUMBER. WHERE A LETTER IS USED, THERE ARE MULTIPLE INSTANCES.

DESIGN[§]

ARCHITECTURE & INTERIORS

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Project Phase: Construction Documents

Issu	ie Date: 07.31.202	0
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No.	Descripton	Date

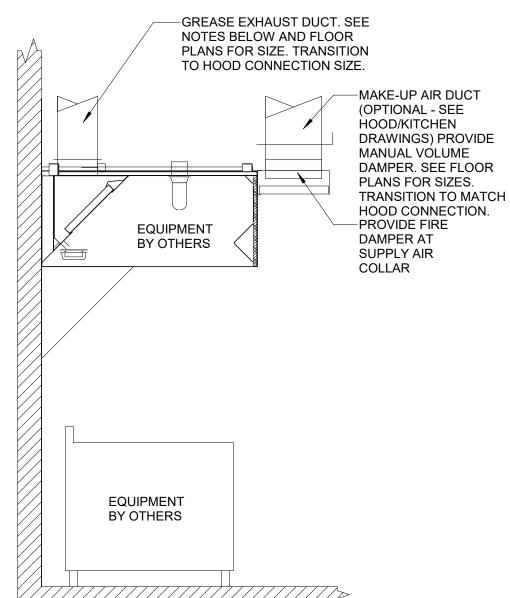
Job Number:

20033

GENERAL

- NYLON TIE ON EXTERIOR INSULATION - NYLON TIE ON INTERNAL LINER --- INTERIOR LINER - PREINSULATED FLEXIBLE ROUND SHEET DUCTWORK. SEE METAL DUCT SPECIFICATIONS, LENGTH DIAMETER AS SHALL NOT EXCEED 8'-0". INDICATED ON PROVIDE SUPPORT PER PLANS. — SMACNA STANDARDS. INSTALL FREE OF KINS \$ SAGS. - DAMPER HERE FOR INACCESSIBLE CEILINGS (I.E. HARD CEILINGS) PROVIDE FACTORY, PRE-SPIN-IN FITTING WITH MOLDED INSULATION SCOOP DAMPER HERE BRANCH DUCT — BLANKET ON DIFFUSER FOR ACCESSIBLE BACKPLATE CEILING SEE ARCH. SUPPLY DIFFUSER CONNECT FLEX DUCT ENDS TO SHEET METAL DUCT AND DIFFUSER NECK WITH - WHERE BRANCH DUCT SIZES NYLON TIES. INTERIOR LINER AND DIFFERS FROM SCHEDULED EXTERIOR INSULATION OF FLEX DUCT TO BE TIED INDIVIDUALLY. INSTALL USING SHALL PROVIDE NECESSARY TENSIONING TOOL AS PER TRANSITION. MANUFACTURER'S RECOMMENDATIONS. 3 DIFFUSER TAKE-OFF

M0.2 N.T.S.



NOTES: INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH NFPA-96.

GREASE DUCT SYSTEM:

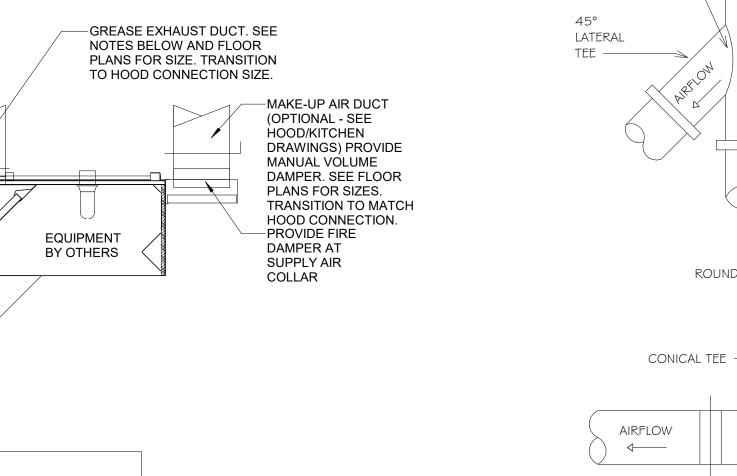
GREASE EXHAUST DUCTWORK SHALL BE FACTORY EQUAL TO SELKIRK METALBESTOS ZEROCLEAR MODEL IPS-Z3. INSTALL DUCTWORK IN ACCORDANCE WITH UL 1978 AND UL 2221 INSTALLATION INSTRUCTIONS. COMPLETE SYSTEM, FROM HOOD OUTLETS TO FAN INLET, SHALL INCLUDE TRANSITIONS TO HOOD OUTLETS, ADJUSTABLE PIPE LENGTHS, SUPPORT PLATES, GUIDE RINGS, ACCESS DOORS, AND THRU WALL FIRE STOP PENETRATIONS. MODEL IPS-C1 OR MODEL G MAY BE USED WHERE CLEARANCES PERMIT.

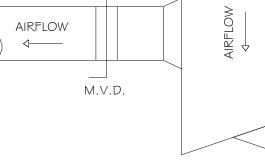
VOLUNTARY ALTERNATE GREASE DUCT AND WRAP SYSTEM:

INSTALL CARBON STEEL OF MINIMUM 16 GAUGE OR STAINLESS STEEL MINIMUM 18 GAGE IN STRICT ACCORDANCE WITH NFPA-96. THE ENTIRE DUCT SYSTEM, FROM HOOD OUTLETS TO FAN INLET, SHALL BE WRAPPED WITH ASTM-814 CERTIFIED DUCT WRAP FOR ZERO CLEARANCE TO COMBUSTIBLES. FOLLOW DUCT WRAP MANUFACTURERS INSTRUCTIONS FOR INSTALLATION AND THROUGH WALL PENETRATIONS.

² KITCHEN HOOD/GREASE DUCT

M0.2 N.T.S.

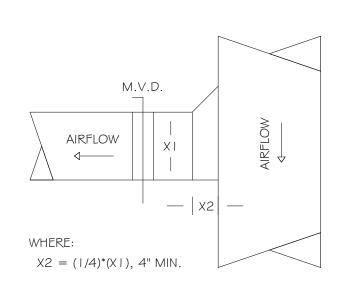




ROUND - ROUND

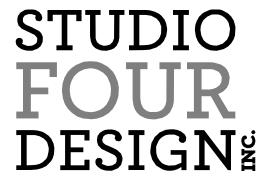
S-CLIP JOINT OR ADHESIVE GASKET FITTING -

RECTANGULAR - ROUND



RECTANGULAR - RECTANGULAR





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No. Descripton Date					

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M0.2

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VENTILA	ATION SCHEE	DULE (PER	ASHR	(AE 62.1)								
Zone EXIS	STING RTU Ventila	ation										
System Primar Airflow:	y 6,800 CFM	Average Outdoo Air Fraction:	r 0.279	Occupant Diversity:	1		Zone Air Distribution Effectiveness:	0.8	Primary Air Fraction to Zone:	I	Secondary Air Fraction to Zone:	I
Vps		Xs		D			Ez		Ер		Er	
Uncorrected A Intake:	Air 1,900 CFM	System Ventilation Efficiency:	I	Mın. Outsıde Aır Required:	1,900 CI	FM	Fraction of Supply Ai to Zone from Outside Zone:		Fraction of Supply Air t Zone from Fully Mixed Primary Air:	o I	Fraction of Outdoor Air to Zone from Outside Zone:	l e
Vou		Ev		Vot	0.279		Fa		Fb		Fc	
Room Inform	nation											
Room	Room Type	Pe	ople Outdoo	r Air		Area Outo	door Air	Breathing Zone Outside Airflow	Zone Outdoor Airflow	Zone Discharge Airflow	Discharge Outdoor Air Fraction	Zone Ventilation Efficiency
		Rate	People	Total	Rate	Area	Total					
		(CFM/person)	Pz	(CFM)	(CFM/ft2)	(ft2)	(CFM)	(CFM)	(CFM)	(CFM)		
		Rp		Rp*Pz	Ra	Az	Ra*Az	Vbz	Voz	Vdz	Zd	Evz
COOKING	Food-Cooking	7.5	3	23	0.12	144	18	41	51	917	0.0556	1.22
DINING	Food-Dining Rooms	7.5	112	840	0.18	3080	554	1390	1740	4,930	0.353	I
PREP	Food-Preparation	7.5	6	45	0.12	294	36	81	101	809	0.125	1.15
STORAGE	General-Storage-	0	0	0	0	156	0	0	0	143	0	1.28

CALLOUT

Unoccupied

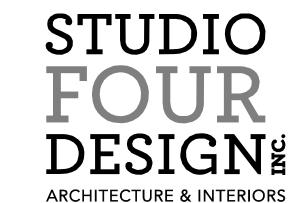
FACE SIZE (IN) | INLET SIZE (IN) | NOISE CRITERIA AT

MAX CFM

MODEL

DIFFUSER, GRILLE AND REGISTER SCHEDULE

DESCRIPTION



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20033 Job Number: SCHEDULES

M0.3

RC2424 EGGCRATE GRILLE 24x24 24x24 TITUS 50F 25 RS1812 EGGCRATE GRILLE 18x12 18x12 25 TITUS 50F 36x20 36x20 50F RS3620 EGGCRATE GRILLE 25 RS4824 48x24 TITUS 50F EGGCRATE GRILLE 48x24 25 SCEC2424 EGGCRATE SUPPLY GRILLE 24x24 24x24 25 TITUS 50F 551806 DOUBLE DEFLECTION SUPPLY 20x8 18x6 25 TITUS 300FS 552406 26x8 24x6 TITUS 300FS DOUBLE DEFLECTION SUPPLY 25

A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION. B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

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File: C:\Users\Vincent\Morales\Documents\220020 Anderson Co Senior Center Kitchen Reno - MEP-V20_vincent2X32R.rvt

HOOD INFORMATION - Job#4434227 PATENT NUMBERS SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER MAX TOTAL AC-PSP (United States) - US Patent 7963830 B2 THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, HOOD APPLIANCE DESIGN TOTAL END TO ROW MODEL LENGTH COOKING SUPPLY CFM/ft EXH CFM WIDTH LENG HEIGHT DIA CFM VEL AC-PSP Wall (Canada) - CA Patent 2820509 DUTY CONSTRUCTION TEMP CFM AC-PSP Island (Canada) - CA Patent 2520330 TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY. Where Exposed ALONE ALONE) FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 6' 0" Heavy 225 4" | 12" | 1350 | 1719 | -0.638" | 1080 ND-2-PSP-F 2-INCH DEEP HOOD CHANNEL(S). HOOD INFORMATION UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED. FIRE HOOD COMPONENTS WHEN ASSEMBLED.
—SYSTEMHANGING GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE HOOD SWITCHES WIRE GUARD EFFICIENCY € 7 QTY HEIGHT LENGTH SIZE TYPE LOCATION PIPING WEIGHT PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND SIZE MODEL # QUANTITY TYPE MICRONS LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. 85% See Filter Captrate Solo Filter 20" Right L55 Series E26 12"x54"x24" Ansul R102 3.0/3.0 DCV-1111 MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER. 1 Fan EFFICIENCY VS. PARTICLE DIAMETER PRESSURE DROP VS. FLOW RATE HOOD OPTIONS TELD WRAPPER 18.00" High Front, Left, Right BACKSPLASH 80.00" High X 84.00" Long 430 SS Vertical L55 SERIES E26 CANDPY LIGHT FIXTURE -- HIGH TEMP ASSEMBLY, INCLUDES CLEAR THERMAL AND SHOCK RESISTANT GLOBE (L55 FIXTURE) RISER SENSOR INSTALL 6IN PLEN PERFORATED SUPPLY PLENUM(S) HOOD TYPE WIDTH LENG DIA CFM SP POS LENGTH WIDTH HEIGHT FIELD VRAPPER 18.00' HIGH (SEE HOOD OPTIONS TABLE) MUA EXHAUST RISER -- ATTACHING PLATES FLOW RATE (cfm) PARTICLE DIAMETER (µm) _ SUPPLY RISER VITH VOLUME DAMPER HANGING ANGLE -SEE HOOD TABLE CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH: _ 23.5% OPEN STAINLESS STEEL PERFORATED PANEL NFPA #96 NSF STANDARD #2 20' CAPTRATE SOLD . UL STANDARD #1046 INT. MECH. CODE (IMC) ULC-S649 3' INTERNAL STANDOFF -IT IS THE RESPONSIBILITY
OF THE ARCHITECT/OWNER TO
ENSURE THAT THE HOOD CLEARANCE
FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS
IS IN COMPLIANCE WITH
LOCAL CODE REQUIREMENTS. U.L. Listed L55 Series E26 Canopy Light Fixture – High Temp Assembly DUCT TEMPERATURE SENSOR — 48.0" MAX GREASE DRAIN WITH REMOVABLE CUP Provides exhaust air temperature for proper hood control operation. For all installations excluding a single hood with factory risers and a hood rounted panel, BACKSPLASH 80.00' HIGH duct mounted temperature sensors will need to be field wired. 2-wire 18 AWG X 84.00" LONG ROOM TEMPERATURE SENSOR EQUIPMENT BY DTHERS – 7'-0.00" Overall Length -Provides room override based on temperature differential between the room and duct. Installed by electrician on a wall, 5'-6' off the finished floor, in the space but not directly under the hood or close to an appliance (including the electrical control box) so the reading is accurate for space. 至 SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #1 HOOD CONTROL 9 INTERFACE $\overline{}$ HANGING ANGLE (HARDWARE BY INSTALLER) \sim . . $^{\circ}$ The LCD interface provides user control and hood status. The faceplate is connected to the hood control panel through CAT-5 cable. A faceplate has 2 RJ-45 connectors. Dine connects to port J4 or J5 in the hood control panel and the other will typically be occupied by a RJ-45 end-of-line terminator. FIELD WIRED CONNECTIONS. TEMPERATURE SENSOR -1/2" - 13 TPI GRADE 5 (MINIMUM) -STEEL ALL-THREAD *** NOTE *** 1/2" - 13 TPI GRADE 5 ONDNOMUM) -STEEL HEX NUT HOOD MUST HAVE 18" CLEARANCE FROM COMBUSTIBLES ON ALL ROOM TEMPERATURE SIDES, INSULATION MUST **DATE:** 7/13/2020 BE ADDED IF WITHIN 18" DWG.#: 4434227 ASSEMBLY INSTRUCTIONS HOOD LIGHTS _ DRAWN BY: J. Irvine HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI HOOD LIGHTS GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2' GRADE 5 SCALE: (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI 3/4" = 1'-0"GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING CONTROL PANEL ANGLES AND ABOVE CEILING ANCHORS, MAINTAIN 1/4" OF MASTER DRAWING EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS. CASHMI INTERFACE SHEET NO.

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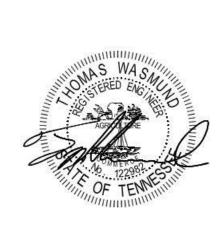
REVISIONS



PROFICIENT
ENGINEERING
Peachtree Corners, Georgia 3000

Peachtree Corners, Georgia 30092 404.330.9798 PROJECT # 220020

Anderson County Senior
Center
96 Mariner Point Dr.
Clinton, TN 37716



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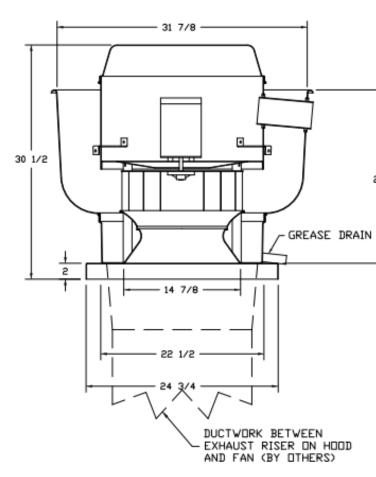
Rev	isions	
No.	Descripton	Date

Job Number: 20033
HOOD PACKAGE

SELECTION

10.4

EXHAUST FAN INFORMATION - Job#4434227 FAN UNIT WEIGHT (LBS) MOTOR DISCHARGE CFM ESP FAN UNIT MODEL # RPM VOLT ENCL VELOCITY DU85HFA 427 FPM 94 15.5 1350 1.250 | 1351 | DDP 0.750 | 0.4330 | 3 208 MUA FAN INFORMATION - Job#4434227 MIN DESIGN CFM CFM BHP Ø VOLT FLA MCA MOCP WEIGHT MOTOR ENCL ESP HP FAN UNIT MODEL # BLOWER HOUSING RPM UNIT A1-15D 15MF-1-MOD 1080 0.500 1295 ODP 0.500 | 0.3150 | 3 | 208 | 1.9 | 2.4A | 15A | FAN OPTIONS
FAN UNIT TAG OPTION (Qty - Descr) - Grease Box 1 - 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 Motorized Backdraft Damper for Size 1 Housing - Wall Mount Option for Size 1 Untempered Fan 1 - Separate 120V Wiring Package (Required and used only for DCV or Prewire with VFD) - Three Phase Only FAN ACCESSORIES UNIT SIDE GRAVITY MOTORIZED WALL DISCHARGE DAMPER DAMPER MOUNT GREASE GRAVITY WALL SIDE GRAVITY CUP DAMPER MOUNT DISCHARGE DAMPER YES YES YES YES CURB ASSEMBLIES ITEM SIZE 1 # 1 23.000'W x 23.000'L x 26.000'H Right Vented Hinged Curb 40 LBS FAN #1 DU85HFA - EXHAUST FAN FEATURES: - DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)



- ROOF MOUNTED FANS
- RESTAURANT MODEL - UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL - INTERNAL WIRING - WEATHERPROOF DISCONNECT
- THERMAL DVERLOAD 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.

SPECIFY PITCH:

EXAMPLE: 7/12 PITCH = 30° SLOPE

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 LODSE DISCONNECT FOR REMOTE
MILINT.

FAN #2 A1-15D - SUPPLY FAN

1. UNTEMPERED SUPPLY UNIT WITH 15' DIRECT DRIVE FAN IN SIZE #1 HOUSING

2. INTAKE HOOD WITH EZ FILTERS

3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT

4. MOTORIZED BACK DRAFT DAMPER 16' X 18' FOR SIZE 1 UNTEMPERED UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4' REAR FLANGE, LOW LEAKAGE, TFB12OS ACTUATOR INCLUDED

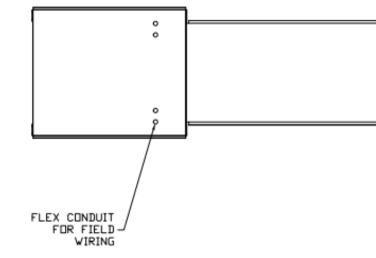
5. WALL MOUNT OPTION FOR SIZE 1 UN-TEMPERED MAKE-UP AIR FAN. 32' LONG ANGLE IRON FRAME.

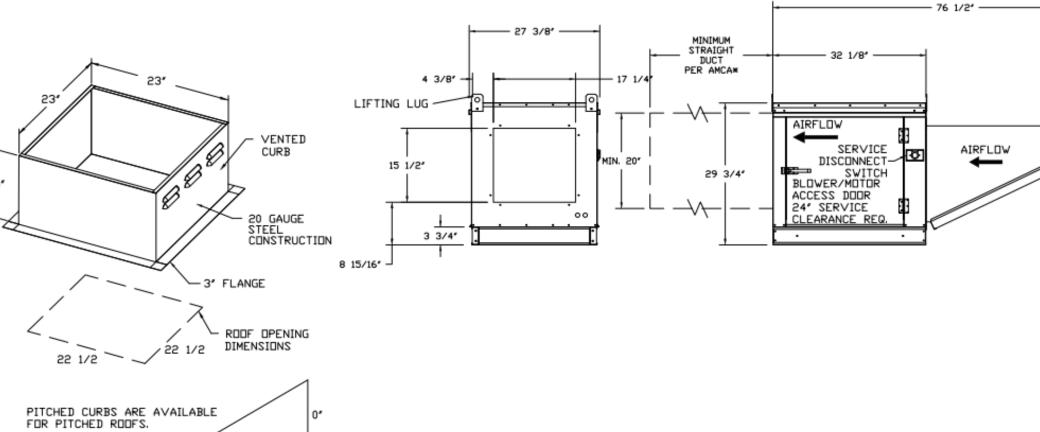
6. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.

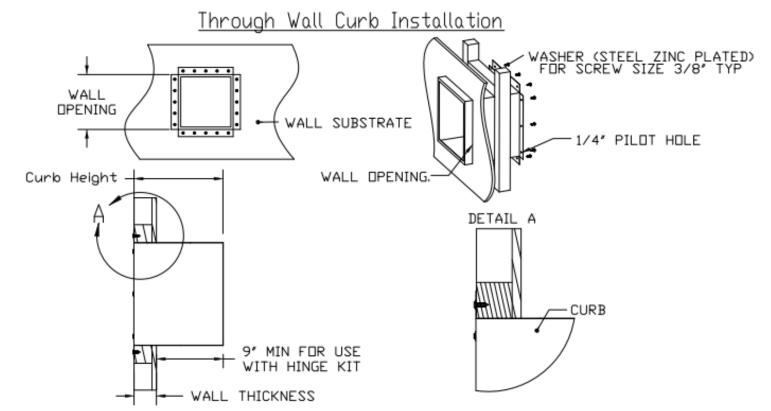
7. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION)

*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.











96 Mariner Point Dr. Clinton, TN 37716 Anderson Center

STUDIO

DESIGN

PROFICIENT

Peachtree Corners, Georgia 30092

404.330.9798 PROJECT # 220020



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No.	Descripton	Date	

20033 Job Number:

9 $\overline{}$ $^{\circ}$ Š DRAWN BY: J. Invine SCALE: 3/4" = 1'-0"

Z **DATE:** 7/13/2020 DWG.#: 4434227

MASTER DRAWING HOOD PACKAGE

SHEET NO.

SELECTION

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Exhaust Fan Wiring	JDB 4434227 - And	der			AirHandler Wiring	JDB 4434227 - Ar	iden	
WING NUMBER EXH4434227-1	SHIP DATE 7/13/2020	MODEL DUNGHPA			DRAVING NUMBER A4434227-2	SHIP DATE 7/13/2020	MODEL A1-160	
			Installed Sc	diens	INTENTION ELECTRICIANE INDETERM SESCONECT CONNECTION IS FACTORY SUPPLIED CONNECT POWER TO THE SKOP			Installed Bothers Notorized Back Braft Barper BCV/VFB Viring
		MT-01	Lebel Component later Lebel Rescription R HT-61 Fan Mater	ntification Location		UH CROV NO. FOD - 15 APP FOR CONTROL VISING ONLY NOT BE METED REPORTING ON PEROV IS NOT PRESENT, RS AND V ONLY MARKET SECOND SECURICE.	E OPTIONSO AN VIRES FROM	Lobel Beachption
			SV-OL Hain disconnect	switch (3)	6 MT-4	2 SR		MT-00 Supply motor MT-00 Busper notor
					9			
					10			SV-01 Hain disconnect self
					13			
			HOTOR INF	T-29-24FLA	15			SUPPLY 059F-306V-3P
			EXHAUST 0.75-F-256	A-78-5-4E-V	16			SUPPLY 0.5HP-208V-3P
			MINE CHE THE SA	HATION.	18			CHILLY ROADS
			DOMES FID.	D VIRING NAC. VIRING	20 21			——— DEMOTES FIELD V
			WIRE COLD BK = BLACK YV BL = BLUE GF BR = SHOWN GF CR = CHANGE PR RD = RCD VM = VHETE	IR V - YELLOW - GREEN - GREEN - PURPLE - PURPLE	æ æ			WINE COLOR BK = BLACK YV = BR = BLUC GY = BR = BROWN GY = DR = DRAWGE FR = RB = RED FK = WH = WHETE





Center 96 Mariner Point Dr. Clinton, TN 37716



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	Project Phase:	Construction	Documen

Revisions					
No.	Descripton	Date			

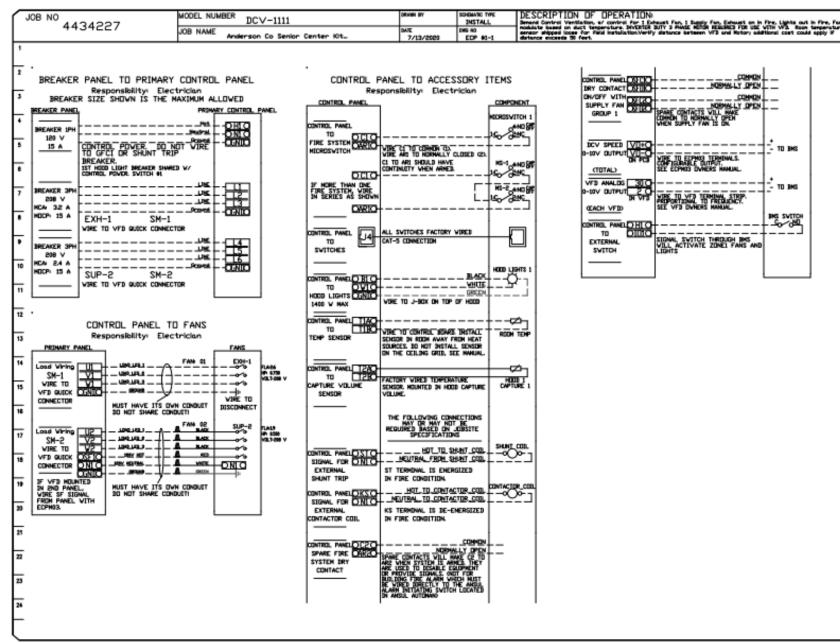
20033 Job Number: HOOD PACKAGE SELECTION

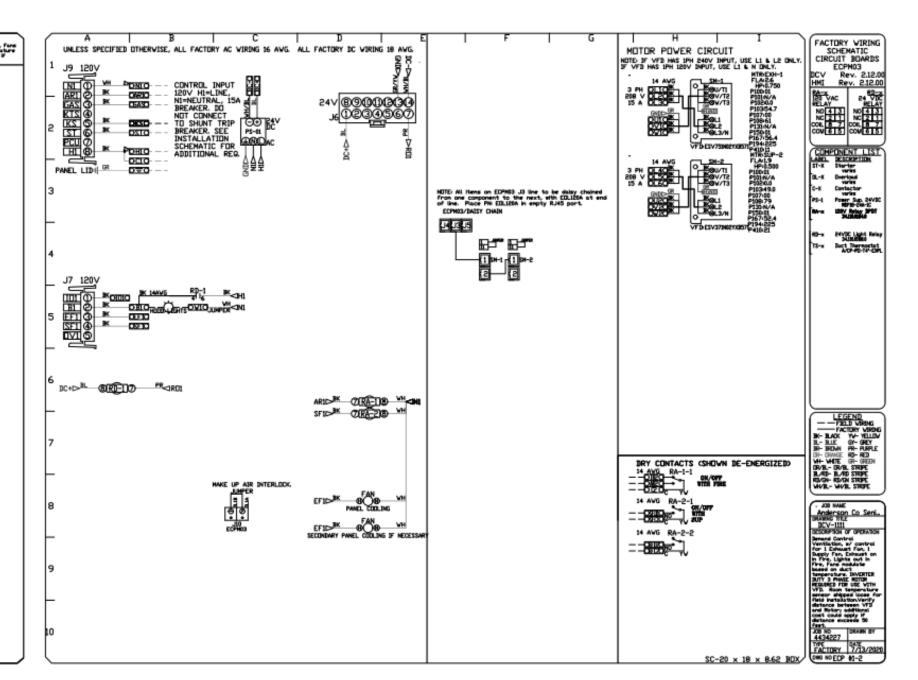
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Center Kitcher 37716 CLINTON, **DATE:** 7/13/2020 **DWG.#:** 4434227 **DRAWN BY:** J. Irvine **SCALE:** 3/4" = 1'-0" MASTER DRAWING SHEET NO.

REVISIONS

ELECTRICAL PACKAGE - Job#4434227 FANS CONTROLLED SWITCHES PACKAGE # LOCATION OPTION TYPE 0 HP VOLT FLA
Exhaust 3 0.750 208 2.6
Supply 3 0.500 208 1.9 LOCATION - Utility Cabinet DCV-1111 Utility Cabinet Right Smart Controls DCV





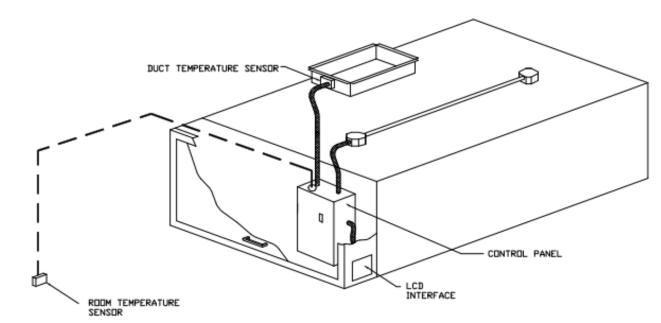
Demand Control Ventilation Hood Control Panel Specifications:

Controls shall be listed by ETL (UL 508A) and shall comply with demand ventilation system turndown 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
- 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
- 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)

control shall not override fan operation logic as required by code).

- VFD Fault display with audible & visual alarm notification
- 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

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.
- <u>Other:</u> The system operates based on the input from an external source (DDC, BMS or hard-wired interlock)

STUDIO DESIGN ARCHITECTURE & INTERIORS

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REVISIONS

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DATE: 7/13/2020

4434227

DRAWN BY: J. Invine

SCALE:

3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

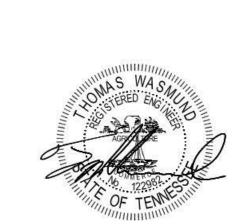
DWG.#:



Peachtree Corners, Georgia 30092

404.330.9798 PROJECT # 220020

Senior County Anderson



Project Phase: Construction Documents

ssue Date: 07.31.2020					
Revisions					
No. Descripton	Date				

Job Number: **HOOD PACKAGE**

SELECTION

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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PROFICIENT E N G I N E E R I N G Peachtree Corners, Georgia 30092

404.330.9798 PROJECT # 220020

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Anderson County

Project Phase: Construction Documents

Rev	isions	
No.	Descripton	Date

Job Number:

HOOD PACKAGE SELECTION

20033

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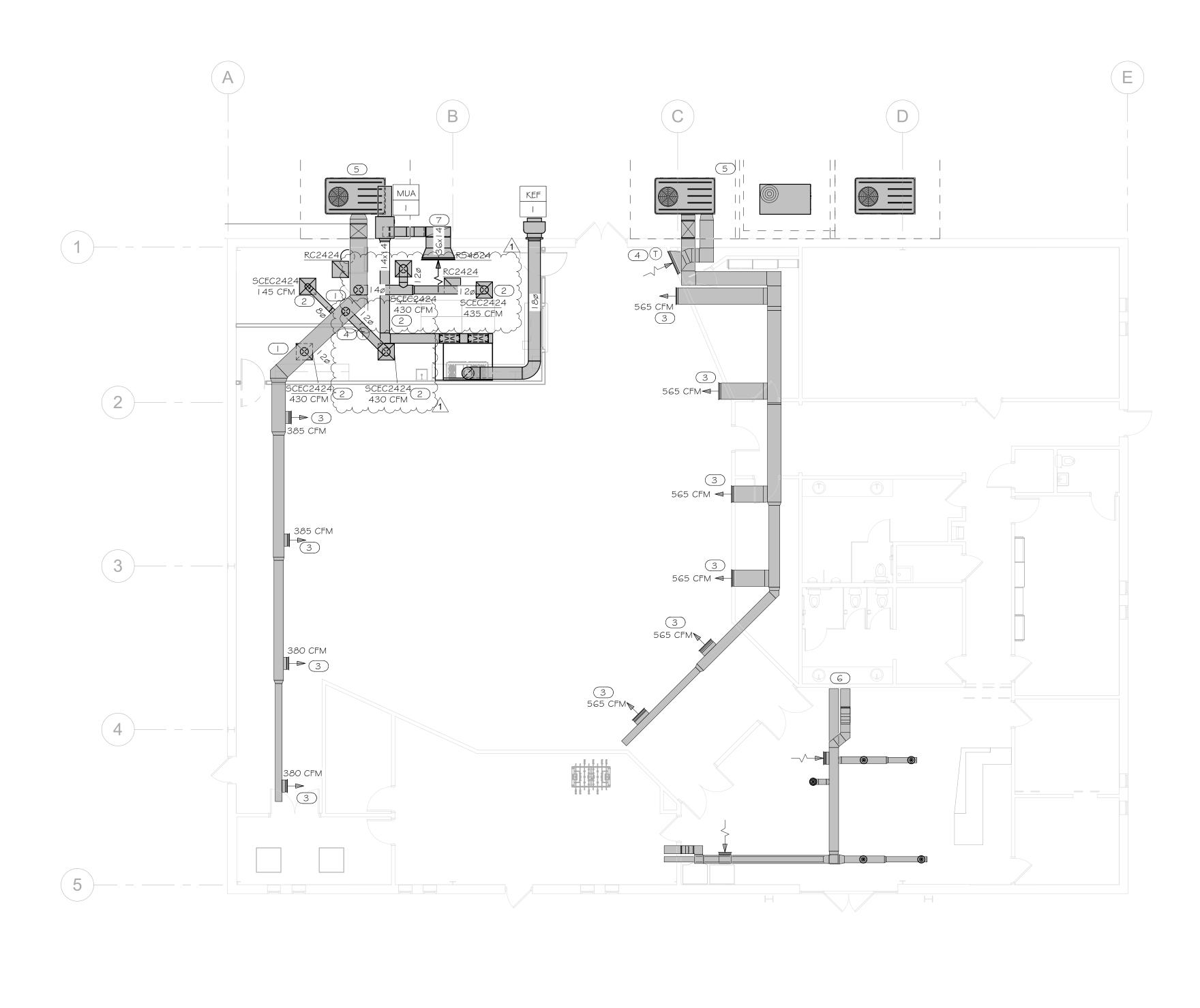
DATE: 7/13/2020 **DWG.#:** 4434227

DRAWN BY: J. Irvine **SCALE:** 3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

FLOOR PLAN - NEW WORK



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.
- 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

- (I) EXISTING DIFFUSERS ABOVE KITCHEN SPACE TO BE DEMOLISHED AND REMOVED FROM SITE. PATCH EXISTING TRUNK DUCT TO LIKE NEW
- 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 WITN 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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PROFICIENT Peachtree Corners, Georgia 30092 404.330.9798

PROJECT # 220020 Senior

County

Anderson



Project Phase: Construction Documents

Re	visions					
No	No. Descripton Date					
1	Revision 1	08.28.2020				

Job Number:

FLOOR PLAN - NEW WORK

M1.1

SPECIFICATIONS

CONTRACTOR SHALL REFER TO ALL RELATED DOCUMENTS, ARCHITECTURAL, STRUCTURAL, CIVIL AND MEP DRAWINGS, AND FULLY UNDERSTAND THE SCOPE OF WORK AND CONDITION OF CONSTRUCTION.

THE WORK UNDER THIS SPECIFICATIONS AND DRAWINGS SHALL INCLUDE ALL LABOR.

ALL INSTALLATION OF DEVICES AND CONNECTION OF CONDUCTORS SHALL BE PERFORMED BY LICENSED AND SKILLED ELECTRICIAN OR JOURNEYMAN.

ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE OWNER. IF ANY PORTION OF THE WORK IS FOUND UNSATISFACTORY BY THE OWNER, IT SHALL BE REMOVED AND REINSTALLED WITHOUT DELAY AT NO COST TO THE OWNER.

THE WORK INCLUDES, BUT NOT LIMITED TO:

THE COMPLETE ELECTRICAL DISTRIBUTION SYSTEM.

ROUGH-IN AND FINAL CONNECTIONS TO ALL DEVICES REQUIRING ELECTRICAL POWER, INCLUDING OWNER PROVIDED EQUIPMENT.

LIGHTING CONTROL LIGHTING FIXTURES

EACH CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED BY THE REGULATORY AUTHORITIES. ALL FEES RELATED TO OBTAINING PERMITS AND INSPECTION SHALL BE PAID FOR BY EACH CONTRACTOR IN HIS TRADE.

ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH LOCAL, COUNTY, STATE, AND NATIONAL ELECTRICAL CODE 2017, SPECIFICATIONS, UTILITY COMPANY REQUIREMENTS AND ALL INDUSTRY

ANY DIFFERENCES IN ABOVE MENTIONED REQUIREMENTS, THE MOST STERN SHALL OVERRULE ALL OTHERS.

IN ADDITION TO ABOVE MENTIONED CODES AND SPECIFICATIONS, THE FOLLOWING INDUSTRY STANDARDS SHALL BE COMPLIED IF THEY ARE MORE STRINGENT.

IECC 2012 ASHRAE 90.1 NFPA NEMA

THE MANUFACTURER'S PUBLISHED DIRECTIONS SHALL BE FOLLOWED IN THE DELIVERY, STORAGE, PROTECTION, INSTALLATION AND WIRING OF ALL EQUIPMENT AND MATERIAL.

THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM. THE SYSTEMS SHALL INCLUDE BUT ARE NOT LIMITED TO THE ITEMS SHOWN ON THE DRAWINGS. EXACT LOCATIONS OF THESE ITEMS SHALL BE DETERMINED BY REFERENCE TO THE GENERAL PLANS AND MEASUREMENTS AT THE BUILDING AND IN COOPERATION WITH THE OTHER SUBCONTRACTORS, AND IN ALL CASES, SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. THE OWNER RESERVES THE RIGHT TO MAKE ANY REASONABLE CHANGE IN THE LOCATION OF ANY PART OF THIS WORK WITHOUT ADDITIONAL COST TO THE OWNER.

CONTRACTOR SHALL SEEK APPROVAL FROM THE OWNER FOR ANY CHANGES TO THE

SPECIFICATIONS OR CONTRACT DOCUMENTS.

ANY EXCEPTIONS, INCONSISTENCIES AND CONFLICTS IN CONTRACT DOCUMENTS, SPECIFICATIONS AND CONTRACT DOCUMENTS BY OTHER TRADE SHALL BE BROUGHT TO ATTENTION TO THE OWNER PRIOR TO BID.

CONTRACTOR SHALL COORDINATE AND VERIFY THE WORK WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADE PRIOR TO ANY FABRICATIONS OR INSTALLATION. IF THE LAYOUT OF THE DEVICES ON DRAWINGS ARE IMPRACTICAL TO THE CONDITION IN FIELD, CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY PRIOR TO ANY FABRICATION OR INSTALLATION.

ELECTRICAL DEVICES ARE INDICATED ON DRAWINGS AT APPROXIMATE LOCATIONS. THE OWNER RESERVE THE RIGHT TO MAKE REASONABLE CHANGES IN LOCATIONS WITHOUT ADDITIONAL

THE LINES INDICATING BRANCH CIRCUITS DO NOT REPRESENT THE ROUTING OF ELECTRICAL CONDUITS. THEY INDICATE THE LAYOUT AND CONTROL OF CIRCUITS.

PRODUCTS AND WORK

MATERIALS FURNISHED SHALL BE NEW AND BY STANDARD MANUFACTURERS AND MUST CONFORM TO THE NATIONAL BOARD OF FIRE UNDERWRITER'S REQUIREMENTS AND BEAR THE UNDERWRITER'S LABORATORIES' SEAL OF APPROVAL.

LISTED MANUFACTURERS, MODELS, OR CATALOGUE NUMBERS IN PART OR ALL SHALL ENTAIL TO INCLUDE THE PUBLISHED MANUFACTURER'S DESCRIPTION AND SPECIFICATION.

CONTRACTOR SHALL NOT INTERPRET THAT THE LISTED MANUFACTURERS IN SPECIFICATIONS OR DRAWINGS TO EXCLUDE ALL OTHER MANUFACTURERS

CONTRACTOR SHALL MAKE CERTAIN THAT ALL EQUIPMENT FIT IN THE SPACE DESIGNATED AND DESIGNED FOR THE SURROUNDINGS IT OCCUPIES.

COMPLETE CATALOGUE ILLUSTRATION AND DESCRIPTIONS OF ALL EQUIPMENT SHALL BE SUBMITTED TO THE OWNER PRIOR TO ORDERING ANY EQUIPMENT.

ALL HORIZONTAL RUNS OF CONDUITS SHALL BE SUPPORTED BY MEANS OF APPROVED HANGER

FROM THE STRUCTURAL CEILING.

COORDINATE THE WORK UNDER THIS SECTION WITH ALL OTHER TRADES.

SPECIFICATIONS

CONDUITS AND RACEWAYS:

MANUFACTURERS: SQUARE D, B-LINE, ALLIED TUBE & CONDUIT, HOFFMAN, CARLON ELECTRICAL, WIREMOLD.

OUTDOORS EXPOSED: RIGID STEEL.

OUTDOORS CONCEALED ABOVE GROUND: RIGID STEEL.

OUTDOORS UNDERGROUND: TYPE EPC-40-PVC

OUTDOORS CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND MOTOR DRIVEN EQUIPMENT): LFMC.

BOXES AND ENCLOSURES ABOVE GROUND: NEMA 3R UNLESS NOTED OTHERWISE ON PLANS.

INDOORS EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE: EMT. INDOORS EXPOSED NOT SUBJECT TO SEVERE PHYSICAL DAMAGE: EMT.

INDOORS EXPOSED SUBJECT TO SEVERE PHYSICAL DAMAGE: RIGID STEEL CONDUIT.

INDOORS CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT.

INDOORS CONNECTION TO VIBRATING EQUIPMENT: FMC, EXCEPT USE LFMC IN DAMP OR WET

INDOORS DAMP OR WET LOCATIONS: IMC. INDOORS LOW-VOLTAGE CABLES: EMT.

CONDUCTORS:

COPPER CONDUCTORS #10 AND SMALLER:

LABELED PER UL 83, TYPE THHN/THWN, SOLID COPPER 600 VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA.

METAL CLAD (TYPE MC) CABLE WHERE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 330.

COPPER CONDUCTORS #8 OR LARGER:

LABELED PER UL 83, TYPE THHN/THWN, STRANDED COPPER, 600VOLT INSULATION. UNIFORM COLOR CODED JACKET WITH JACKET DATA.

ACCEPTABLE MANUFACTURERS OF CONDUCTORS:

PIRELLIE SOUTHWIRE

AETNA REPUBLIC

AFC

ENCORE WIRE KERITE

CONTRACTOR MAY USE ALUMINUM CONDUCTORS FOR #4 AWG OR LARGER IN THE PLACE OF COPPER CONDUCTORS. CONTRACTOR SHALL REFER TO NEC TABLE 310-16 FOR EQUIVALENT AMPACITY AND SHALL COMPENSATE FOR VOLTAGE DROP.

MOLDED CASE CIRCUIT BREAKER:

INCLUDE SCHEDULE OF ALL FUSES, RATINGS, TIME COORDINATION DATA, MANUFACTURER'S STANDARD DATA AND TIME-CURRENT CURVES. ALL DATA SHALL BE BASED ON TEST OF STANDARD PRODUCTS.

APPROVED MANUFACTURERS:

GENERAL ELECTRIC CUTLER HAMMER SQUARE D

SIEMENS

THERMAL-MAGNETIC BOLT-IN TYPE CIRCUIT BREAKERS WITH QUICK-MAKE, QUICK-BREAK CONTACTS; TRIP-FREE OPERATION WITH OVER-THE-CENTER TOGGLE HANDLE OR NON-REMOVABLE MONOLITHIC TIE-HANDLE.

MULTI-POLE BREAKERS SHALL HAVE INTERNAL COMMON TRIP AND COMMON RESET WITH A SINGLE TOGGLE HANDLE OR NON-REMOVABLE MONOLITHIC TIE-HANDLE.

TRIP RATINGS SHALL BE MOLDED ON THE HANDLE OR FACE OF BREAKER.

BREAKER TERMINALS SHALL BE RATED TO ACCOMMODATE A MINIMUM OF 75 DEGREE C. CONDUCTORS.

BREAKER SHALL BE RATED FOR MOUNTING AND OPERATION IN ANY POSITION; SHALL ACCOMMODATE AND MATCH THE TYPE OF TERMINATIONS REQUIRED.

SINGLE POLE BREAKERS RATED 15 AND 20 AMPERES SHALL BE UL LABELED AS "SWITCHING BREAKERS" AT THE APPLIED CIRCUIT VOLTAGE.

MULTI-POLE BREAKERS RATED 100 AMPERES AND LARGER SHALL BE MOLDED CASE THERMAL-MAGNETIC BOLT-IN TYPE BREAKER WITH ADJUSTABLE INSTANTANEOUS TRIP.

LIGHTING FIXTURE

SUBMITTAL:

SCHEDULE BY TYPE DESIGNATION ALL LIGHTING FIXTURES, EACH COMPLETE WITH DATA SHEET WITH COMPLETE PHYSICAL, ELECTRICAL AND LIGHTING CHARACTERISTICS, LAMP TYPE AND LAMP

REFER TO THE "LIGHTING FIXTURE SCHEDULE" \IN THE DRAWINGS FOR INDIVIDUAL FIXTURE DESCRIPTIONS AND MANUFACTURER TYPES.

PROVIDE LAMPS FOR EACH FIXTURE OF QUANTITY, TYPE AND COLOR AS LISTED IN LIGHTING FIXTURE SCHEDULE. GE, SYLVANIA OR PHILIPS ARE ACCEPTABLE.

EACH LIGHTING FIXTURE SHALL BE UL LABELED FOR PROPER OPERATION IN THE TYPE OF CEILING CONSTRUCTION AND FOR THE MOUNTING ARRANGEMENT ON/IN WHICH IT IS INSTALLED.

FIELD VERIFY ACTUAL CEILING SLOPE FOR FIXTURES INSTALLED IN SAME AND ACTUAL FIELD DIMENSIONS AND ANGLES OF CONSTRUCTION FOR ANY FIXTURE CONFORMING THE SHAPE AND LENGTH OF SAME, FOR COORDINATION OF FIXTURE CONSTRUCTION.

SPECIFICATIONS

PANELBOARD

INCLUDE SCHEDULE OF EACH PANELBOARD WITH ALL DEVICES AND COMPLETE WITH PHYSICAL AND ELECTRICAL DATA AND WITH RATINGS FOR EACH COMPONENT INCLUDING BREAKER/FUSE OVERLAY CURVES.

LABELED PER UL #67 AND #50, CONFORM WITH NEMA #250 AND PB1, NFPA #70-384 AND 70-373.

ALL JUNCTION BOXES SHALL BE LABELED WITH PANEL AND CIRCUIT DESIGNATION.

PROVIDE TYPED CIRCUIT DIRECTORY WITH EACH CIRCUIT SERVING DEVICES AND AREA IT'S SERVING.

APPROVED MANUFACTURERS: GENERAL ELECTRIC

CUTLER HAMMER SQUARE D

LIGHTING CONTROL

TIME SWITCHES:

SIEMENS

SOLID STATE, PROGRAMMABLE, WITH ALPHANUMERIC DISPLAY; COMPLYING WITH UL 917. 20-A BALLAST LOAD, 120/240VAC.

TWO ON-OFF SET POINTS ON A 24-HOUR SCHEDULE AND ANNUAL HOLIDAY SCHDULE THAT OVERRIDES THE WEEKLY OPERATION ON HOLIDAYS.

ALLOW CONNECTION OF A PHOTOELECTRIC RELAY AS SUBSTITUTE FOR ON-OFF FUNCTION OF A

BATTERY BACKUP FOR NOT LESS THAN SEVEN DAYS RESERVE TO MAINTAIN SCHEDULES AND TIME CLOCK.

INDOOR OCCUPANCY SENSORS:

WALL OR CEILING MOUNTED SOLID-STATE INDOOR OCCUPANCY SENSORS WITH A SEPARATE POWER PACK

ADJUSTABLE TIME-DELAY OVER A RANGE OF 1 TO 30 MINUTES.

SENSOR OUTPUT: CONTACTS RATED TO OPERATE THE CONNECTED RELAY, COMPLYING WITH UL773A. SENSOR IS POWERED FROM POWER PACK.

POWER PACK: DRY CONTACTS RATED FOR 20-A BALLAST LOAD AT 120 OR 277 VAC. AUTOMATIC LIGHT-LEVEL SENSOR: ADJUSTABLE FROM 2 TO 200 FC (21.5 TO 2152 LUX); TURN LIGHTS OFF WHEN SELECTED LIGHTING LEVEL IS PRESENT.

DUAL SENSOR TYPE: DETECT OCCUPANCY AREA USING PIR (PASSIVE INFRA-RED) AND

GROUNDING AND BONDING

ULTRASONIC DETECTION METHOD.

ALL GROUNDING AND BONDING SHALL CONFORM TO NEC ARTICLE 250.

COPPER WIRE OR CABLE INSULATED FOR 600V UNLESS REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.

INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS FOR ALL EQUIPMENT.

INSTALL SOLID CONDUCTOR FOR #8 AWG AND SMALLER AND STRANDED CONDUCTORS FOR #6



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Project Phase: Construction Documents

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Job Number: **SPECIFICATIONS**

5-20R 20A, NEMA 5-20R SPECIAL RECEPTACLE, CONFIGURATION AND PER NEC. COVER. SIZE PER NEC. TV OUTLET TELEPHONE / DATA COMBINATION OUTLET TELEPHONE / DATA COMBINATION OUTLET HEAT DETECTOR. CEILING/WALL MOUNTED FIRE ALARM NOTIFICATION DEVICE. AUDIO. FIRE ALARM NOTIFICATION DEVICE. VISUAL. SWITCH SWITCH - 3 WAY **\$**3 SWITCH - BUILT IN OCCUPANCY SENSOR DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE ELECTRICAL PANELBOARD. REFER TO PANELBOARD SCHEDULE CONDUIT CONDUCTOR TURNING DOWN/UP HOME RUN WITH WIRE TICKS. XX - PANEL DESIGNATION, # - CIRCUIT DESIGNATION. WIRE TICKS - (1) NEUTRAL |, (3) HOT Ⅲ& (1) GROUND •

18" AFF DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R 42" AFF OR 6" ABOVE DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R COUNTER TOP QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 18" AFF 5-20R QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 42" AFF OR 6" ABOVE COUNTER TOP DUPLEX RECEPTACLE TOP HALF SWITCHED, 120V, 18" AFF FLUSH WITH FINISHED DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R FLOOR DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R IN CEILING 18" AFF ELECTRICAL CHARACTERISTIC AS NOTED ON DWG JUNCTION BOX FLUSH IN WALL WITH COVER. SIZE JUNCTION BOX FLUSH IN CEILING WITH COVER. SIZE JUNCTION BOX FLUSH IN FINSHED FLOOR WITH FLUSH WITH FINISHED FLOOR SAME HEIGHT AS ADJACENT POWER OUTLET 42" AFF OR 6" ABOVE COUNTER TOP CEILING / 80" AFF SMOKE DETECTOR. CEILING / WALL MOUNTED CEILING / 80" AFF FIRE ALARM NOTIFICATION DEVICE. AUDIO AND 80" AFF 80" AFF 80" AFF FIRE ALARM INITIATION DEVICE. PULL STATION. 42" AFF 42" AFF

DESCRIPTION

LEGEND

SYMBOLS

GENERAL NOTES

MOUNTING

AS INDICATED ON DWG

SURFACE MOUNTED

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.

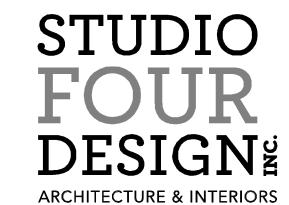
GENERAL DIAGRAMMATIC RACEWAY INTERCONNECTIONS OF EQUIPMENT, FIXTURES AND DEVICES ARE INDICATED ON FLOOR AND REFLECTED CEILING PLANS, REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ELEVATION CHANGES AND RACEWAY ROUTES.

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



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Project Phase: Construction Documents

issue i	ssue Date: 07/31/20					
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No. D	escripton	Date				

Job Number: **GENERAL**

E0.2

Date: 7/31/202 Drawn By: Au File: C:\Users\

Par	nel		ROOM MOUNTI FED FRO NOTE	M M	ACE	VOLTS BUS A NEUTA	AMPS	08Y/120V 5 125 100%	' 3P 4W	I	AIC EXIST MAIN BKR LUGS STA	ING MLO ANDARD
CKT #	CKT BKR	LOAD KVA	CIRCUI	T DESCRIP	TION		CKT #	CKT BKR	LOAD KVA	CIRC	UIT DESCF	RIPTION
1 3 5 7 9 11 13 15 17 19 21 23 25 27	20/1 20/1 20/1 20/1 20/1 20/1 80/2 20/3 20/1 20/3	1.0 1.0 0.5 1.1 1.2 0.0 12.0 0.9	LIGHTIN LIGHTIN ICE MAI RECEPT MICRON SPACE WH-1 MUA-1	G CHINE ACLE WAVE		c a	4 6 8 10 12 14 16 18 20 22 24 26 28	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	0.9 0.5 1.2 0.6 0.6 0.6 0.6 0.6 0.6 0.0 0.0 0.0	RECE VENE REFR FREE RECE VENE FREE FREE REFR	PTACLE DING MACH ZER ZER IGERATOR IGERATOR EE	
	GHTING ECEPTACL		CONN KVA 2.0 7.4	CALC KVA 2.5 7.4	(125%) (50% > 10)		CON HEA ⁻ TOTA BALA LOA PHA PHA	UIPMENT TINUOUS TING AL LOAD ANCED 3-F	4.1 12 1.8	.0	CALC KVA 2.7 15.0 1.8 29.3 81.5 A 132% 124% 44.1%	(65%) (125%) (100%)

LUMINAIRE SCHEDULE							
CALLOUT	LAMP	DESCRIPTION	MODEL	VOLTS			
А	(1) 40W LED	2x4 LED RECESSED TROFFER	TO BE DETERMINED	120V 1P 2W			
В	(1) 32W LED	1'x4' LINEAR FIXTURE	TO BE DETERMINED	120V 1P 2W			
BE	(1) 32W LED	1'x4' LINEAR FIXTURE W/ BATTERY BACKUP	TO BE DETERMINED	120V 1P 2W			
С	(1) 32W LED	1'x4' LINEAR FIXTURE	TO BE DETERMINED	120V 1P 2W			
D	(1) 12W LED	6" CAN DOWNLIGHT	EXISTING	120V 1P 2W			
T	(2) 1.5W LED	EMERGENCY LIGHTING UNIT	LITHONIA ELM2-LED	120V 1P 2W			
Х	(1) 5W LED	THERMOPLASTIC EXIT SIGN WITH BACKUP BATTERY	LITHONIA LQM-S-W-3-R-120/277-EL-N	120V 1P 2W			
XC	(2) 1.5W LED	COMBINATION EXIT/EMERGENCY LIGHTING UNIT	LITHONIA LHQM-LED-R-HO	120V 1P 2W			
XR	(1) INCLUDED	REMOTE LAMP HEAD	LITHONIA ELA-QWP-L0309-SD	120V 1P 2W			

GENEI	RAL SCHEDULE						
CALLOUT	CUSTOM PANEL DESCRIPTION	SYMBOL	VOLTS	KVA	BREAKER	WIRE CALLOUT	DISCONNECT DESCRIPTION
1	FREEZER	φ	120V 1P 2W	0.6	20/1	1/2"C,1#12,#12N,#12G	NEMA 5-15R
2	REFRIGERATOR	φ	120V 1P 2W	0.6	20/1	1/2"C,1#12,#12N,#12G	NEMA 5-15R
3	ICE MAKER	φ	120V 1P 2W	0.6	20/1	1/2"C,1#12,#12N,#12G	NEMA 5-15R
KEF-1	KEF-1	00	208V 3P 4W	0.94	20/3	1/2"C,3#12,#12N,#12G	30A/3P/NEMA 3R
MUA-1	MUA-1	00	208V 3P 4W	0.86	20/3	1/2"C,3#12,#12N,#12G	30A/3P/NEMA 3R
WH-1	WH-1		208/120V 2P 3W	12	80/2	1-1/4"C,2#2,#2N,#8G	100A/2P/NEMA 1

Par	nel /		ROOM MOUNTING SURFA FED FROM UTILIT NOTE EXISTING		VOLTS BUS A NEUTA	AMPS	08Y/120V 6 400 100%	' 3P 4W	1	AIC EXISTII MAIN BKR LUGS STA	NG 400 NDARD
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIP	TION		CKT #	CKT BKR	LOAD KVA	CIRC	UIT DESCR	IPTION
1 3 5 7 9	20/1 20/1 20/1 60/3	0.0 0.0 0.0 15.0	SPACE SPACE SPACE EXISTING AC-3		a b c a b	ŀ	20/1 20/1 20/1 60/3	0.0 0.0 0.0 15.0	SPAC SPAC SPAC EXIST	CE	
11 13 15 17	60/3	15.0	EXISTING AC-2		c a b c	14 16 18	60/3	15.0		TING AC-4	
19 21 23 25 27 29 31 33 35 37 39	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 31.8	EXISTING PANEL A		a b c a b c a b c	22 24 26 28 30 32 34 36 38 40	100/3 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	27.3 0.6 0.6 0.6 0.6 0.6 0.0 0.0	EXIST EXIST EXIST EXIST EXIST SPAC SPAC	FING FING FING FING FING EE	
	GHTING ECEPTACLI		CONN CALC KVA 4.6 5.8 35.6 22.8	(125%) (50%>10)		CON HEA ⁻ TOTA BALA LOA PHA PHA	UIPMENT ITINUOUS FING AL LOAD ANCED 3-F	9.6 12. 66.	.0	CALC KVA 6.2 15.0 66.3 116.1 322.3 A 103% 109% 87.5%	(65%) (125%) (100%)

Par	nel		ROOM MOUNTH FED FRO NOTE			VOLTS BUS A NEUTI	AMPS	08Y/120V 5 125 100%	' 3P 4W	MA	EXISTII N BKR SS STAI	MLO
CKT #	CKT BKR	LOAD KVA	CIRCUI	T DESCRIP	TION		CKT #	CKT BKR	LOAD KVA	CIRCUIT	DESCR	IPTION
1 3 5 7 9 11 13 15 17 21 23 25	20/1 20/1 30/2 30/2 20/1 20/1 20/1 20/1 20/1 20/1 40/2	1.0 1.0 1.5 4.5 0.8 0.6 0.6 0.6 1.2 0.6 5.0	EXISTIN	G G G G G G G		c a b c a b	4 6 8 10 12 14 16	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	0.6 0.6 0.6 0.6 0.6 0.9 0.9 0.5 0.6 0.6 0.6	EXISTING	G RECPT. G RECPT. G RECPT.	
27 29	20/1	0.6	EXISTIN	G			28	50/2	5.5	EXISTING		
			CONN CALC KVA 2.6 3.3 (125%) 19.2 14.6 (50%>1			KITCHEN D) EQUIPMENT HEATING				VA 5	CALC KVA .5	(100%)
							TOTA BALA LOA PHA	AL LOAD ANCED 3-P		- 2 7 8 1	7.9 7.4 A 3.7% 18% 8%	•

STUDIO FOUR **DESIGN** ARCHITECTURE & INTERIORS

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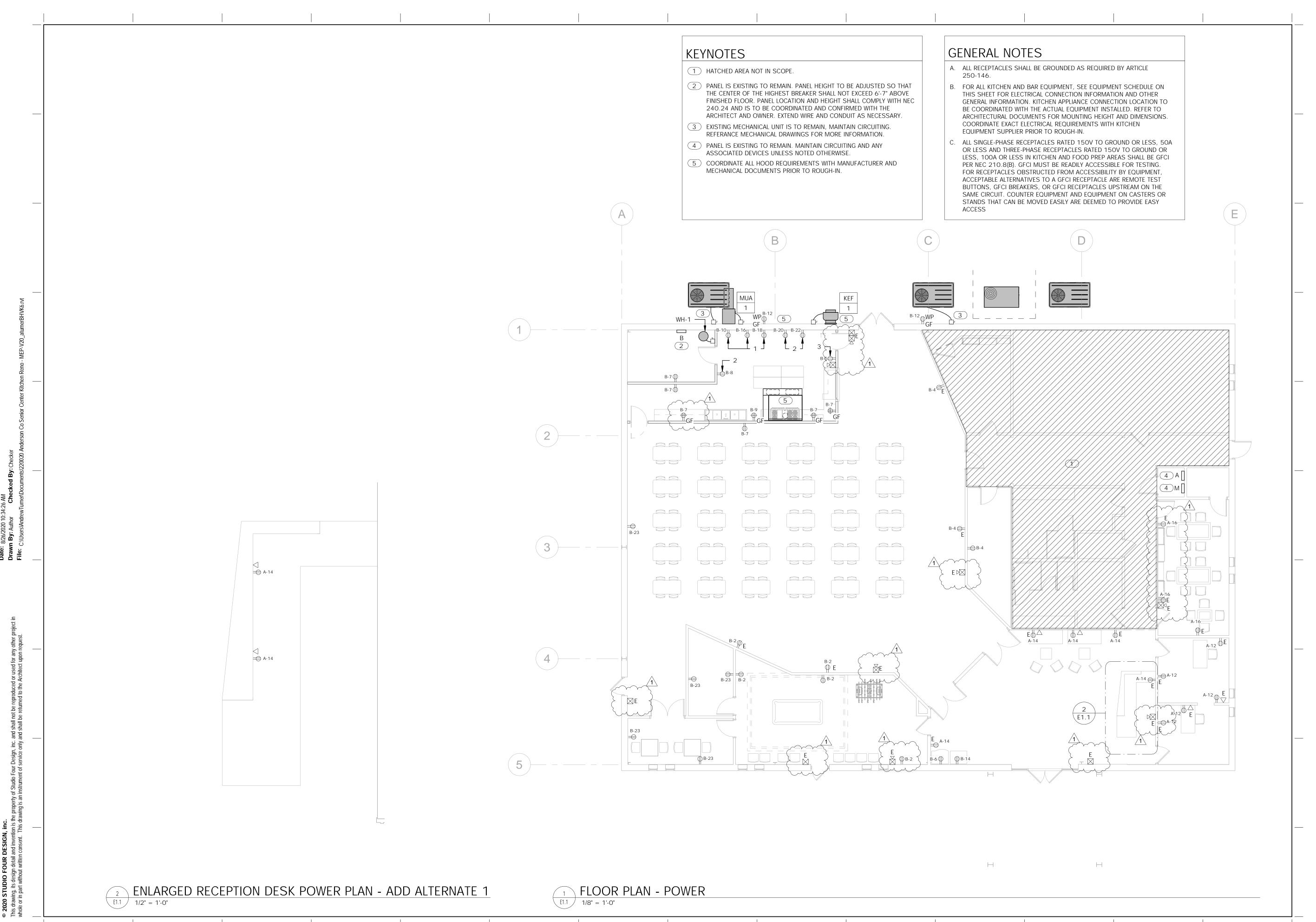


Project Phase: Construction Documents

Revisions					
No.	Descripton	Date			

Job Number: 20033 SCHEDULES

E0.3



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Project Phase: Construction Document

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

Job Number: 2003 FLOOR PLAN - POWER

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Revisions						
No.	Descripton	Date				

Job Number: 20033
FLOOR PLAN - LIGHTING

E2.1