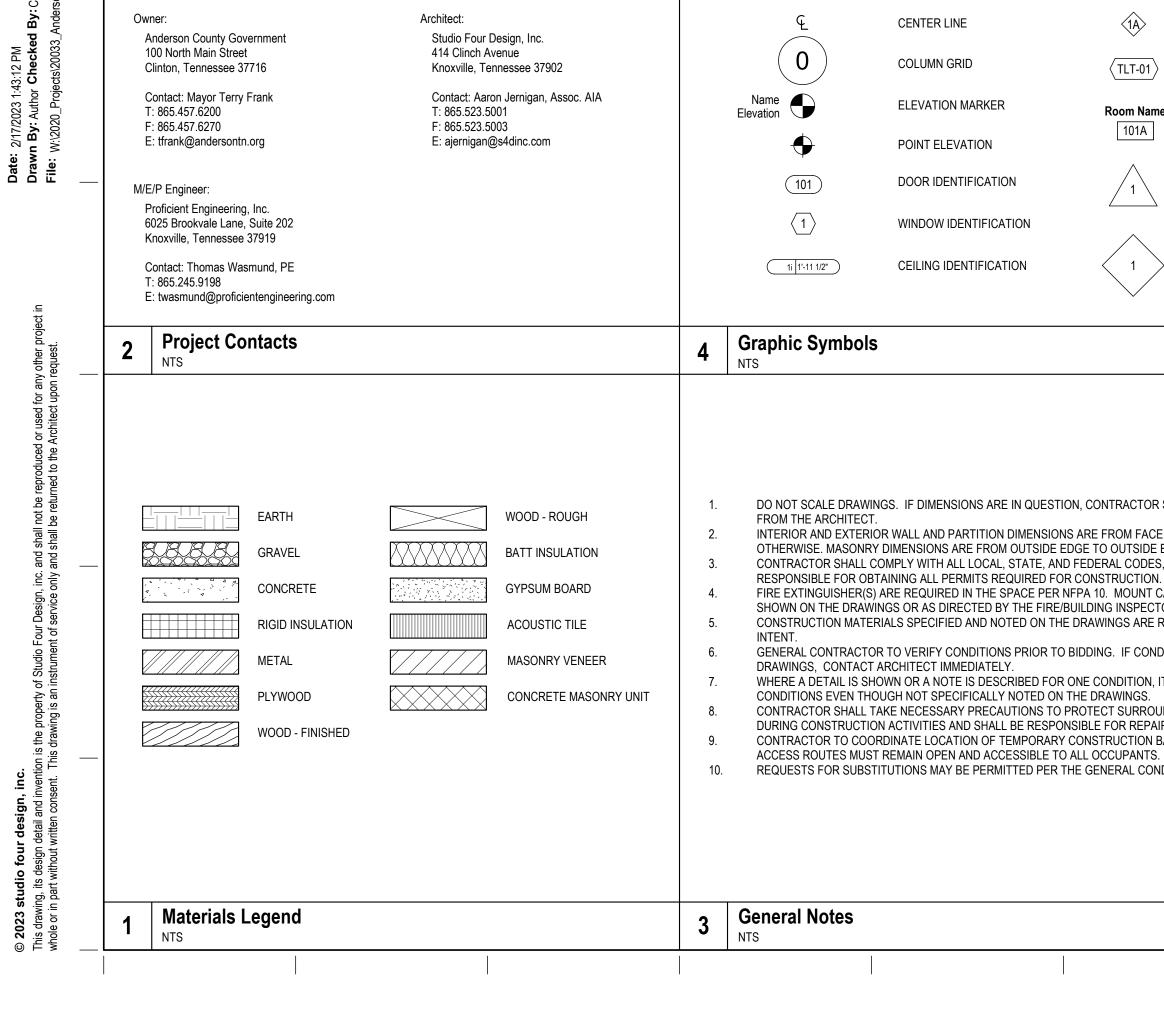
Phase 2	Renovat	ions for:
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# Anderson County Senior Cente

96 Mariner Point Drive Clinton, Tennessee 37716

02.03.2023



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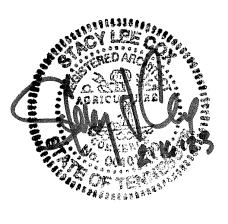
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	<u>.</u>				Construction 02.03.2023	Documents
er						r
					TITLE	Course Chart
					T0.0 T0.1	Cover Sheet General Accessibility Details
				$\searrow$	T0.2	Site Plan Information
					-	
					LIFE SAFETY LS1.1	Life Safety Plan & Code Review
				$\langle$		
					ARCHITECTURAL DEMO AD 1.1	LITION Demolition Plan
				$\langle$	ARCHITECTURAL	
						Floor Plan
					A1.2	Kitchen Equipment Plan & Sched
					A1.3 A1.4	Add Alternate Plans & Elevations Add Alternate Plans & Elevations
					A1.4 A2.1	Reflected Ceiling Plan
				$\mathbf{i}$		Elevations - Alternate 4
					A7.0 A7.1	Door Schedule, Finish Index & Sc Finish Floor Plan
					A8.1	Interior Elevations & Details
				$\langle$	A9.1	Interior Details
				$\sim$	- PLUMBING	
					PLOMBING P0.1	General
				Ç	P0.2	General
						Schedules Details
				$\mathbf{i}$		Riser Diagrams
					- P1.1	Floor Plan
					P2.1	Enlarged Kitchen Plans
				$\geq$	MECHANICAL	
						General
						Details & Schedules
					M0.4 - M0.5	Hood Package Selection Hood Package Selection
					M0.6	Hood Package Selection
				$\mathbf{a}$	M0.7	Hood Package Selection
					M0.8 M1.1	Hood Package Selection Floor Plan
					- M1.2	Enlarged Kitchen Plan
WALL TYPE				$\langle \rangle$	M1.3 M1.4	Add Alternate 1 Plan Add Alternate 2&3 Plan
	1 2.2B	EXTERIOR ELEVATION	1 SIM	BUILDING SECTION		Add Allemale 203 Plan
1 ACCESSORY TAG			A101		ELECTRICAL	
			SIM		E0.1 E0.2	Specifications General
ame ROOM IDENTIFICATION	1		$\begin{array}{c} 1 \end{array}$	WALL SECTION		Schedules
	101 1	INTERIOR FINISH ELEVATION	A101	$\searrow$	E0.4	Compliance Report
REVISION NOTE	1					Floor Plan Enlarged Kitchen Plan
					E1.3	Add Alternate 1 Plan
		NORTH ARROW				Add Alternate 2 & 3 Plan
DEMO NOTE	5				E2.1	Reflected Ceiling Plan
				$\langle \rangle$		
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	$\sim$				-	
$\langle \rangle$		ALTERNATE 1: CLASSROOM RECONFIGU INVOLVES RECONFIGURATION OF TH	HE CLASSROOMS AND EXIS			
	-	THROUGH REMOVAL AND CONSTRU	CTION OF PARTITION WALLS	S	$\left\{ \right.$	
	ADD A	ALTERNATE 2: CRAFT / ACTIVITY ROOM INVOLVES RECONFIGURATION OF CI		OUGH REMOVAL AND	4	
OR SHALL OBTAIN CLARIFICATION, IN WRITING,		CONSTRUCTION OF PARTITION WAL	LS.	-		
ACE OF STUD TO FACE OF STUD UNLESS NOTED	ADD A	ALTERNATE 3: WALK-IN COOLER AND W INVOLVES THE CONSTRUCTION, ENG		KITCHEN ACCESS TO A	R	
DES, REGULATIONS AND ORDINANCES AND SHALL BE		NEW WALK IN COOLER AND NEW WA				
T CABINETS AND EXTINGUISHERS AT LOCATIONS	ADD A	ALTERNATE 4: EXTERIOR IMPROVEMENT INVOLVES EXTERIOR IMPROVEMENT			5	
RE REPRESENTATIVE OF THE GENERAL DESIGN		EXISTING WINDOWS WITH LOW-E INS	SULATED GLASS, INSTALLIN		$\sum$	
DNDITIONS ARE DIFFERENT THAN SHOWN IN		THE EXTERIOR, AND MODIFICATINS		-		
N, IT SHALL APPLY FOR ALL LIKE OR SIMILAR		ALTERNATE 5: MEN'S RESTROOM IMPRO INVOLVES IMPROVEMENTS TO THE I	VEN'S RESTROOM THROUG	H RELOCATING TWO	K	
S. COUNDINGS PROPERTY, STREETS, WALKS, ETC.		URINALS AND INSTALLING TWO NEW	WATER CLOSETS.		$\cup$	
PAIRING ANY DAMAGE CAUSED AS A RESULT.					]	
TS. ONDITIONS.						
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<sup>Phase 2 Renovations for:</sup> Anderson County Senior e 37716 96 Mariner Point Drive Clinton, Tennessee 377 Center



Project	Phase:	Construction	Documents

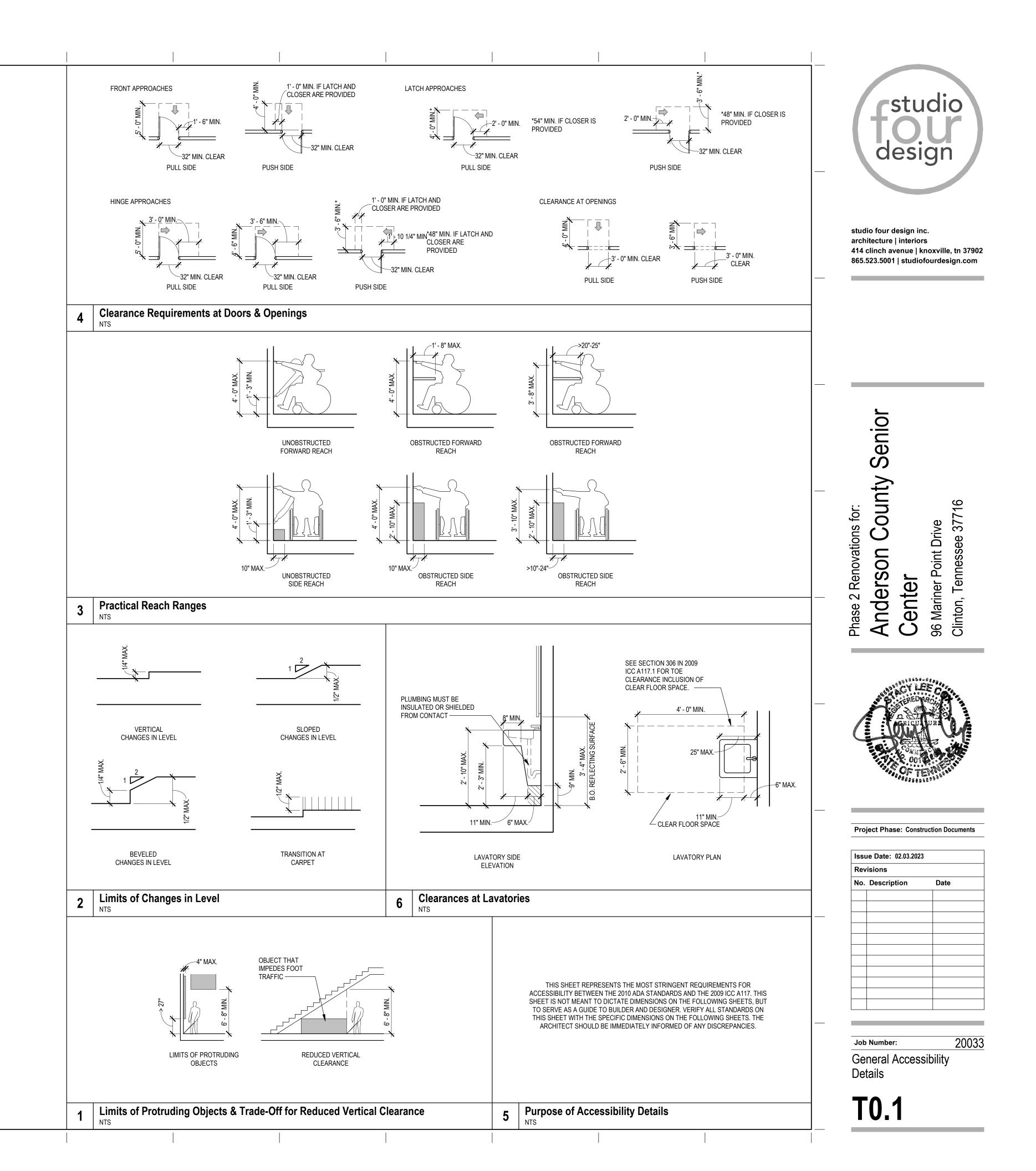
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Rev	visions	
No.	Description	Date
1	Revision 1	02.14.2023

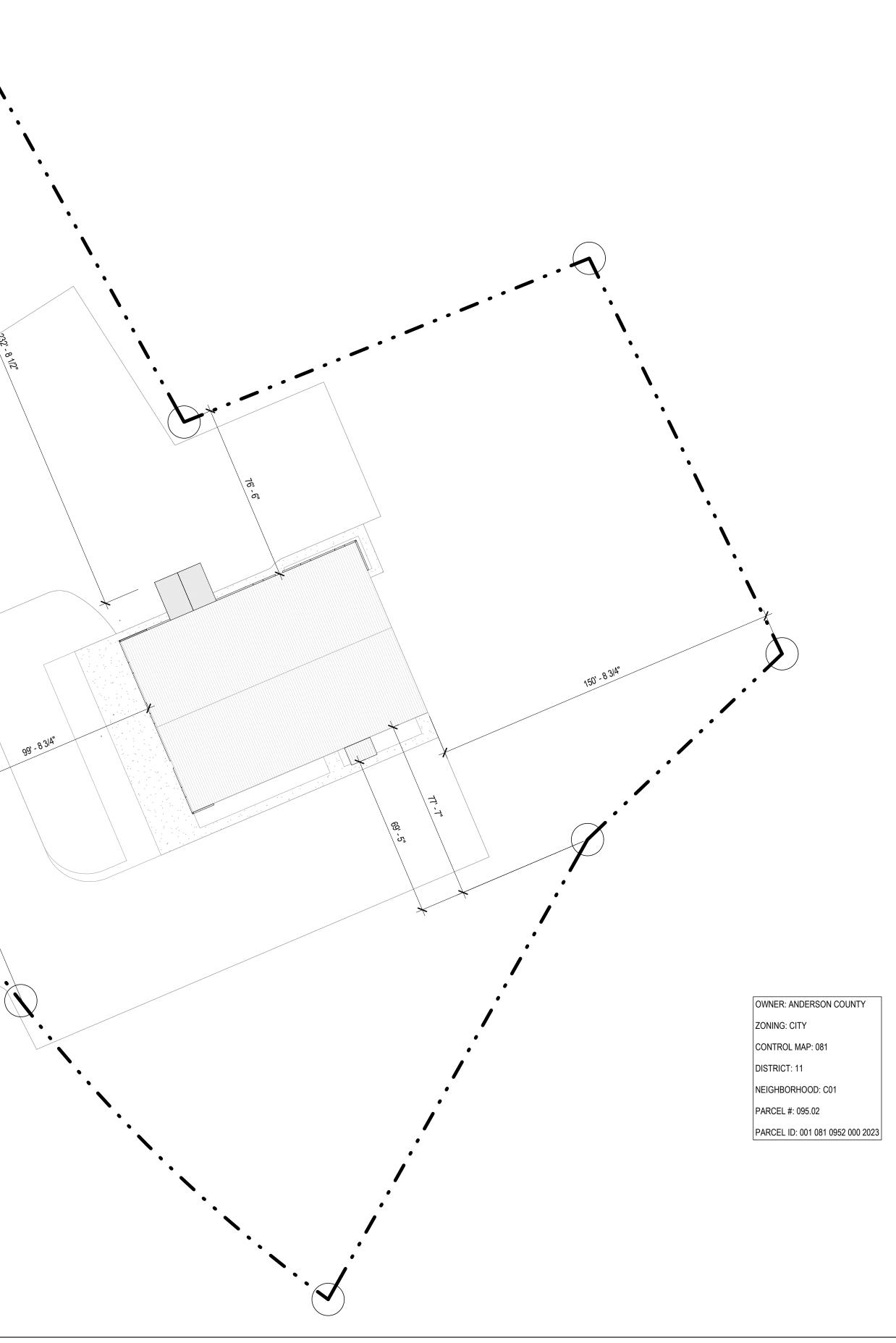
Job Number: **Cover Sheet** 

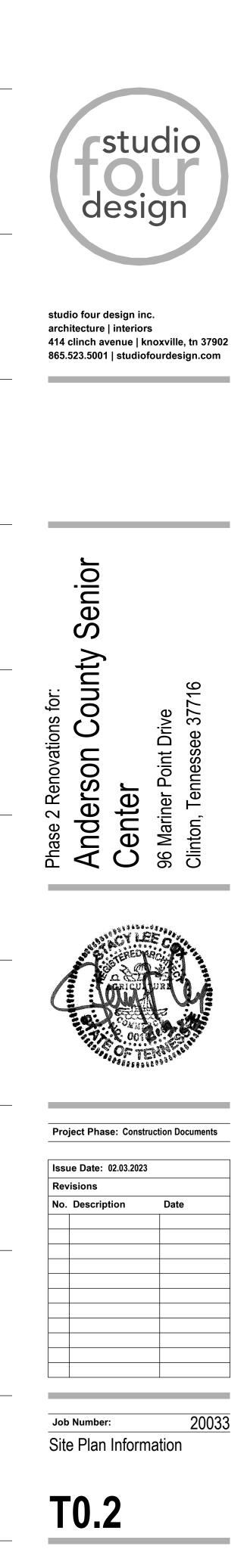
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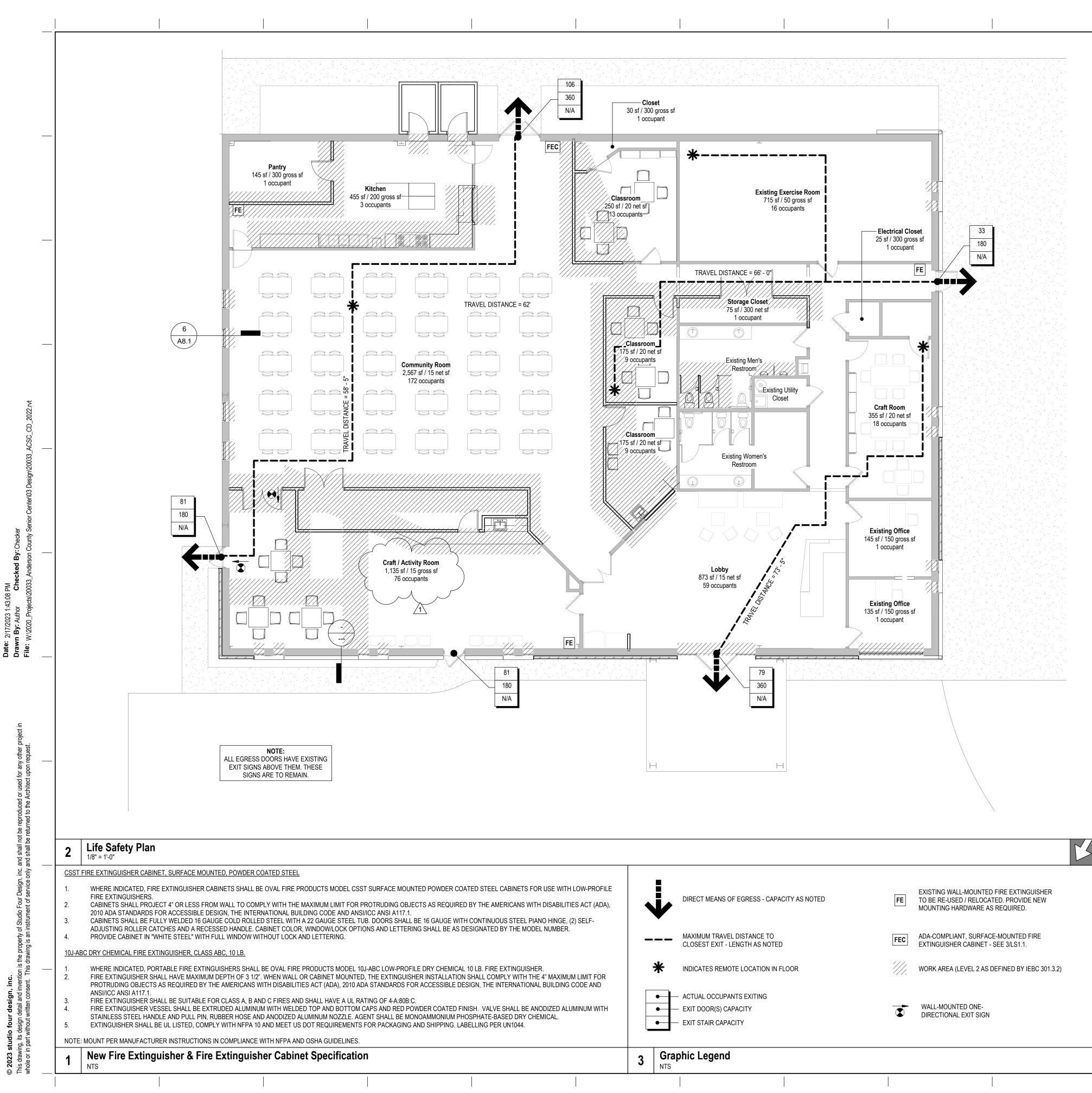
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# APPLICABLE CODES: ACCESSIBILITY CODE: CLIMATE ZONE: OCCUPANCY GROUP: OCCUPANT LOAD: AREA: CONSTRUCTION TYPE: SPRINKLERED: EXISTING BUILDING COMPLIANCE METHOD: LEVEL OF ALTERATION: WORK AREA (LEVEL 2) BASE SCOPE: WORK AREA (LEVEL 2) ALTERNATE 1: WORK AREA (LEVEL 2) ALTERNATE 2: WORK AREA (LEVEL 2) ALTERNATE 3: WORK AREA (LEVEL 1) ALTERNATE 4: WORK AREA (LEVEL 1) ALTERNATE 5:

## REQUIREMENTS

OVERVIEW

SCOPE OF WORK:

LARGEST CORRIDOR OCCUPANT LOAD:
CALCULATED CORRIDOR WIDTH:
MINIMUM CORRIDOR WIDTH:
EXTERIOR WALL RATING:
SHAFT ENCLOSURE RATING:
INTERIOR EXIT STAIRWAY ENCLOCURE RATING:
CORRIDOR WALL RATING:
ALLOWABLE GLAZING AREA:
FIRE ALARM SYSTEM:

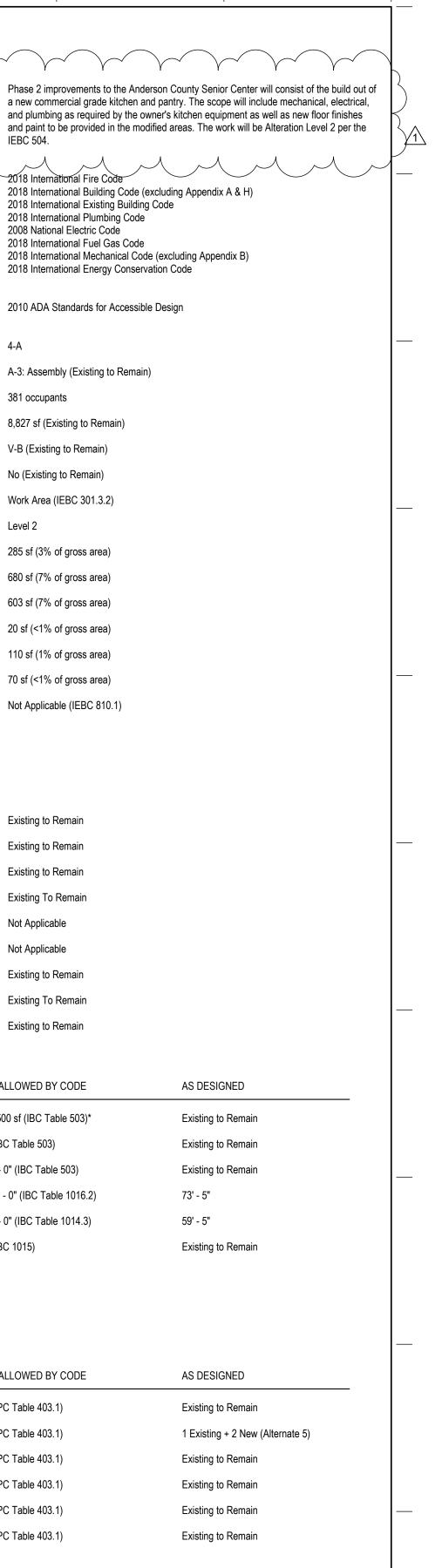
ENERGY CODE COMPLIANCE METHOD:

BUILDING REQUIREMENT	AS ALL
Area per Story:	10,500
Number of Stories (above Grade Plane):	1 (IBC
Building Height:	40' - 0"
Travel Distance:	200' - 0
Common Path of Travel:	75' - 0"
Number of Exits:	2 (IBC

\*Area represents a frontage increase per IBC 506.2.

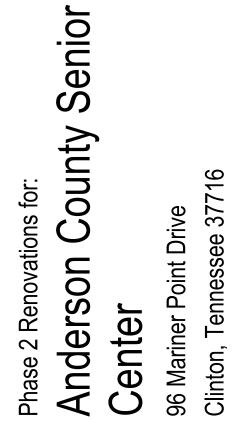
	PLUMBING REQUIREMENT	AS ALL
-	Water Closets (Female):	3 (IPC <sup>-</sup>
	Water Closets (Male):	2 (IPC <sup>-</sup>
	Urinals:	0 (IPC <sup>-</sup>
	Lavatories:	2 (IPC <sup>-</sup>
	Drinking Fountains:	1 (IPC <sup>-</sup>
	Service Sink:	1 (IPC <sup>-</sup>
	Service Sirik.	

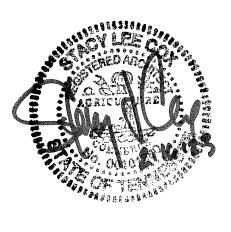
Code Review NTS





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## **Project Phase: Construction Documents**

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Rev	risions	
No.	Description	Date
1	Revision 1	02.14.2023

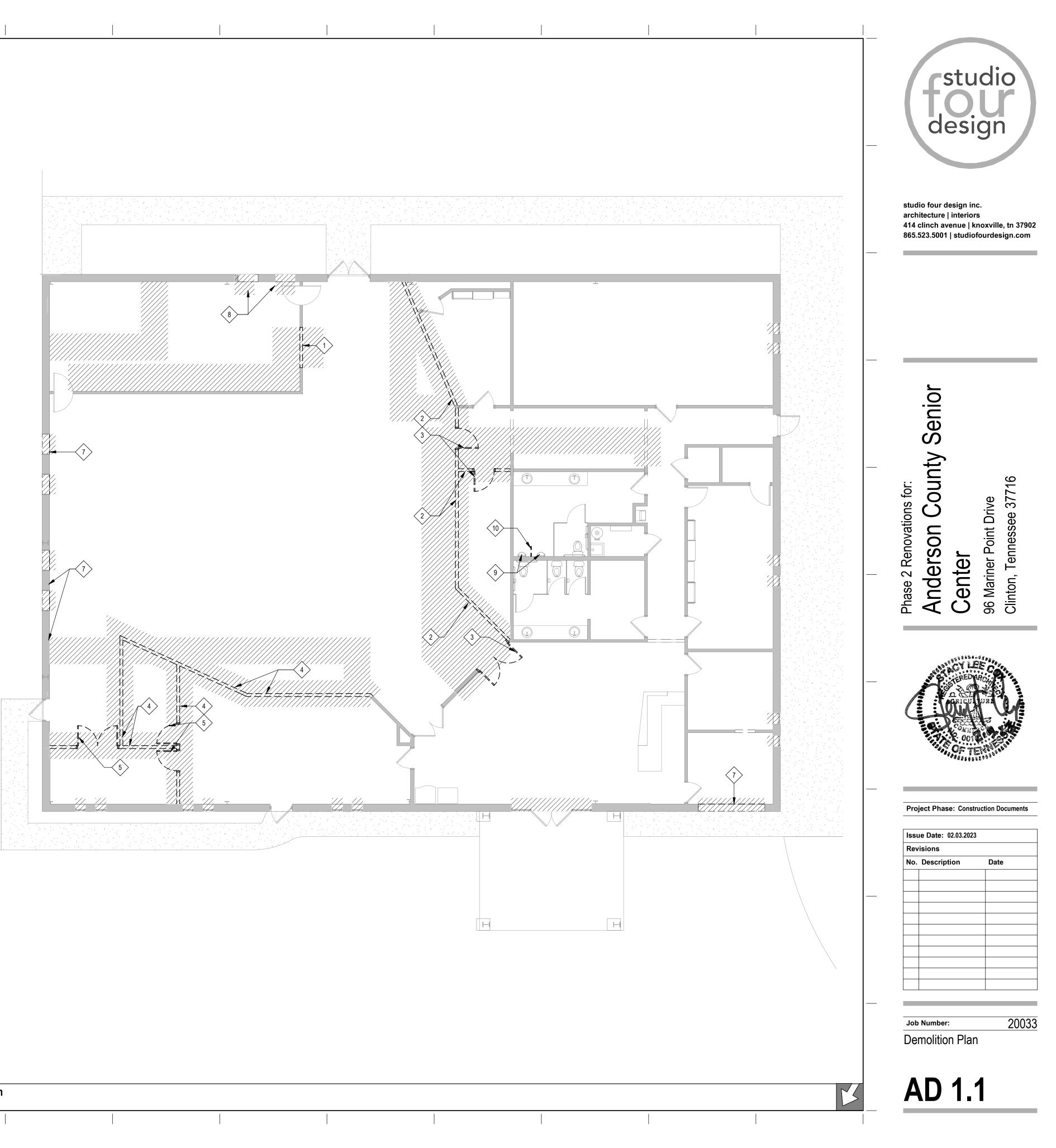
20033 Life Safety Plan & Code Review

Job Number:

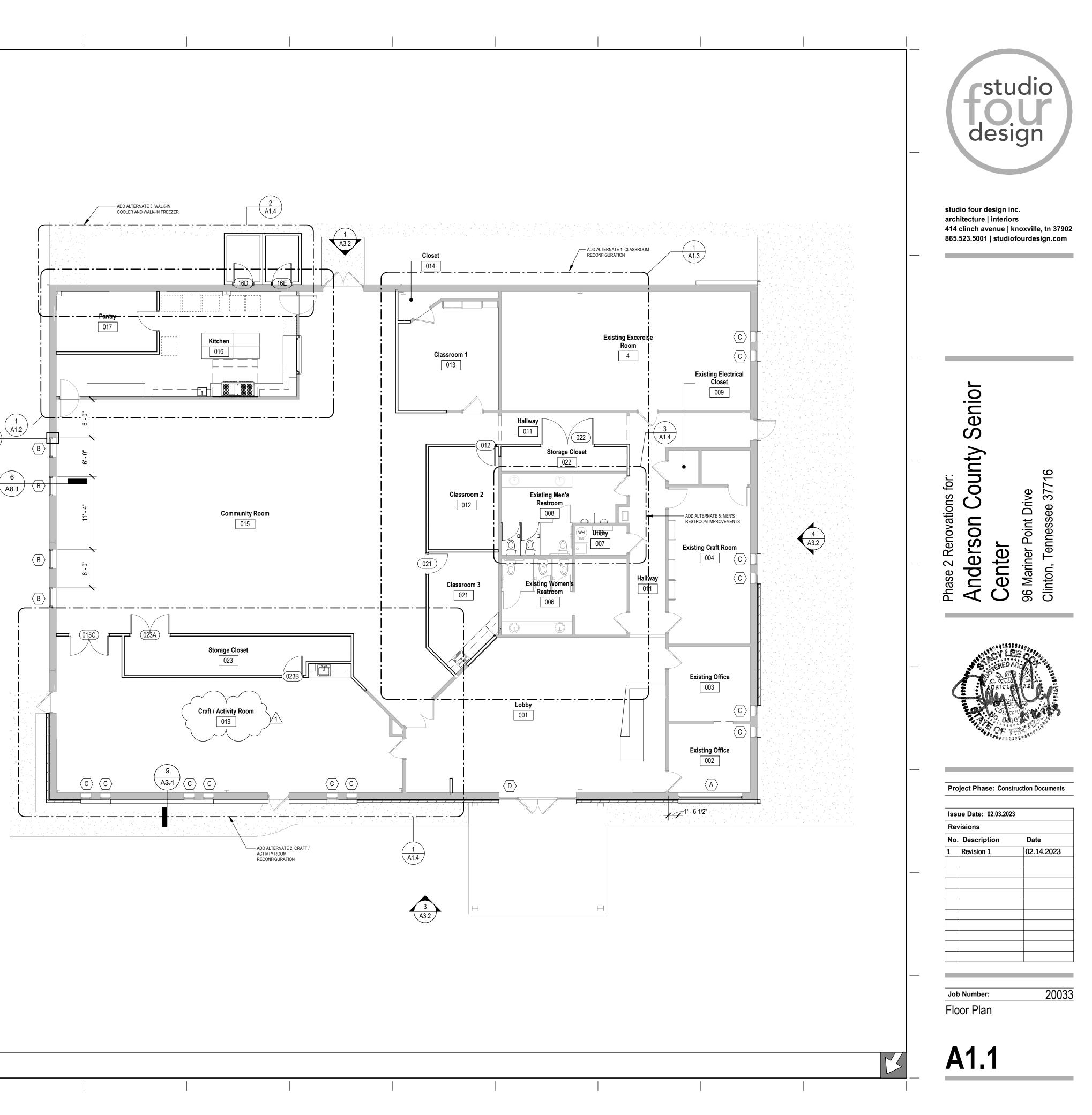
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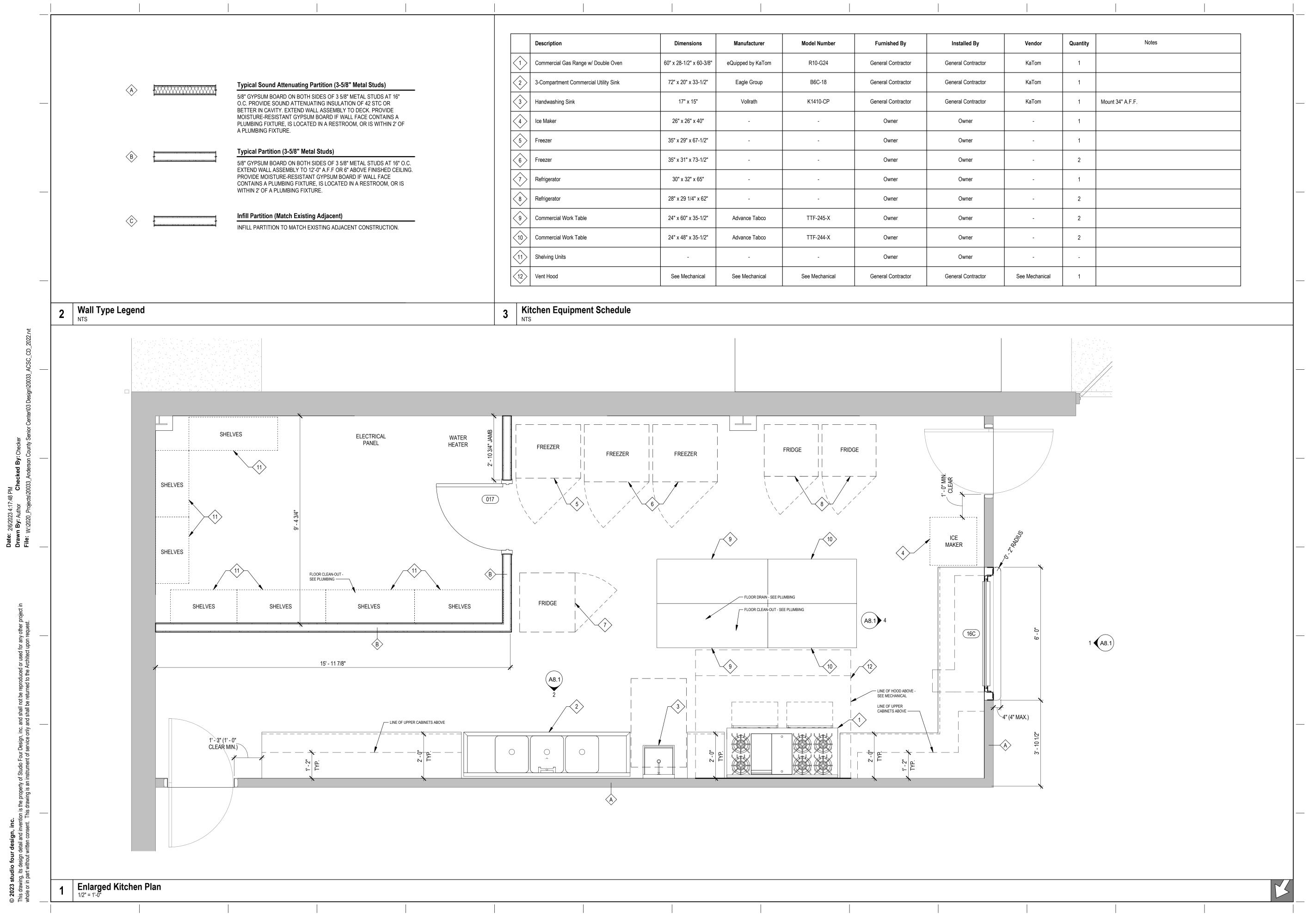
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		2		NFIGURE CLASSROOM LAYOUT /E EXISTING WALLS TO EXTENT SI RIATELY.	HOWN WHILE PROTECTING SUF	RROUNDING FINISHES. DISPOS	E OF WALL
_		3	ALTERNATE 1: REMOV	/E EXISTING DOOR, FRAME, AND A	ASSOCIATED HARDWARE. DISPO	OSE OF MATERIALS APPROPRI	ATELY
		4		NFIGURE GAME ROOM LAYOUT /E EXISTING WALLS TO EXTENT S RIATELY.	HOWN WHILE PROTECTING SUF	RROUNDING FINISHES. DISPOS	E OF WALL
		5	ALTERNATE 2: REMOV	/E EXISTING DOOR, FRAME, AND A	ASSOCIATED HARDWARE. DISPO	OSE OF MATERIALS APPROPRI	ATELY.
		6		/E FLOORING TO EXTENTS SHOW CATE PER OWNER REQUEST.	N WHILE PROTECTING SURROU	IDNING FINISHES. DISPOSE OF	MATERIALS
				DE EXTERIOR ENVELOPE IMPROV DE OPENING IN EXISTING EXTERIO ENING HEIGHTS.		AND PREPARE FOR NEW STOR	EFRONT. SEE
		8		DE A WALK IN COOLER, A WALK I /E EXISTING EXTERIOR WALL TO E CCESS DOOR.			
_		9	ALTERNATE 5: REMOV	RESTROOM IMPROVEMENTS /E EXISTING URINALS WHILE PRO R. PREPARE EXISTING PLUMBING 1			LATION AS
			ALTERNATE 5: REMOV AS DIRECTED BY OWN	/E EXISTING URNAL PARTITION WINNER.	HILE PROTECTING SURROUDNI	NG FINISHES AND STORE FOR	REINSTALLATION
_2022.rvt			WORK AREA (LEVEL 2	AS DEFINED BY IEBC 301.3.2)			
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invention is the property of Studio Four Design, inc. and shall not be reproduced or used for any other isent. This drawing is an instrument of service only and shall be returned to the Architect upon request		ARCHITECTURAL, ST REQUIRED. CONTRA 2. CONTRACTOR SH 3. EXISTING CONSTR AVOID DAMAGE OR INDICATED AS PART	TRUCTURAL, MECHANICA ACTOR SHALL BECOME F/ IALL CONTACT THE ARCH RUCTION TO REMAIN WIT DESTRUCTION. THE CON T OF THE SCOPE OF DEM	AL, PLUMBING & ELECTRICAL SYS AMILIAR WITH THE SITE AND FIEL HITECT IMMEDIATELY UPON DISCO THIN AND SURROUNDING THE LIM NTRACTOR SHALL BE RESPONSIBI IOLITION.	TEMS. THEREFORE DEMOLITION D VERIFY ALL CONDITIONS PRIC DVERY OF DISCREPANCIES BET ITS OF CONSTRUCTION SHALL I LE FOR REPLACING OR REPAIR	N PLAN(S) MAY NOT REPRESEN OR TO BIDDING OR CONSTRUC WEEN THESE DRAWINGS AND BE PROTECTED AS NECESSAR ING ANY ITEMS DAMAGED OR I	NT OR INCLUDE ALL DEMOLITION TION. EXISTING CONDITIONS. Y DURING DEMOLITION TO DESTROYED THAT WERE NOT
is the property of St s drawing is an instr		LIMITED TO; INTERIC CONDUIT, ELECTRIC ASSOCIATED MECH/ 5. THE CONTRACTOR DEMOLITION ACTIVI	OR AND EXTERIOR WALLS CAL PANEL BOARDS, SWIT ANICAL PIPING, FIXTURES R SHALL NOTIFY THE ARG TIES.	CHITECT IMMEDIATELY SHOULD 1	DED ACOUSTICAL CEILINGS, LIC ING FIXTURES, MILLWORK, FLO THE PRESENCE OF HAZARDOUS	GHT FIXTURES, ELECTRICAL DI OR FINISHES, WINDOW TREATI S MATERIALS BE SUSPECTED C	EVICES, FIRE ALARM DEVICES, MENTS, DUCTWORK AND
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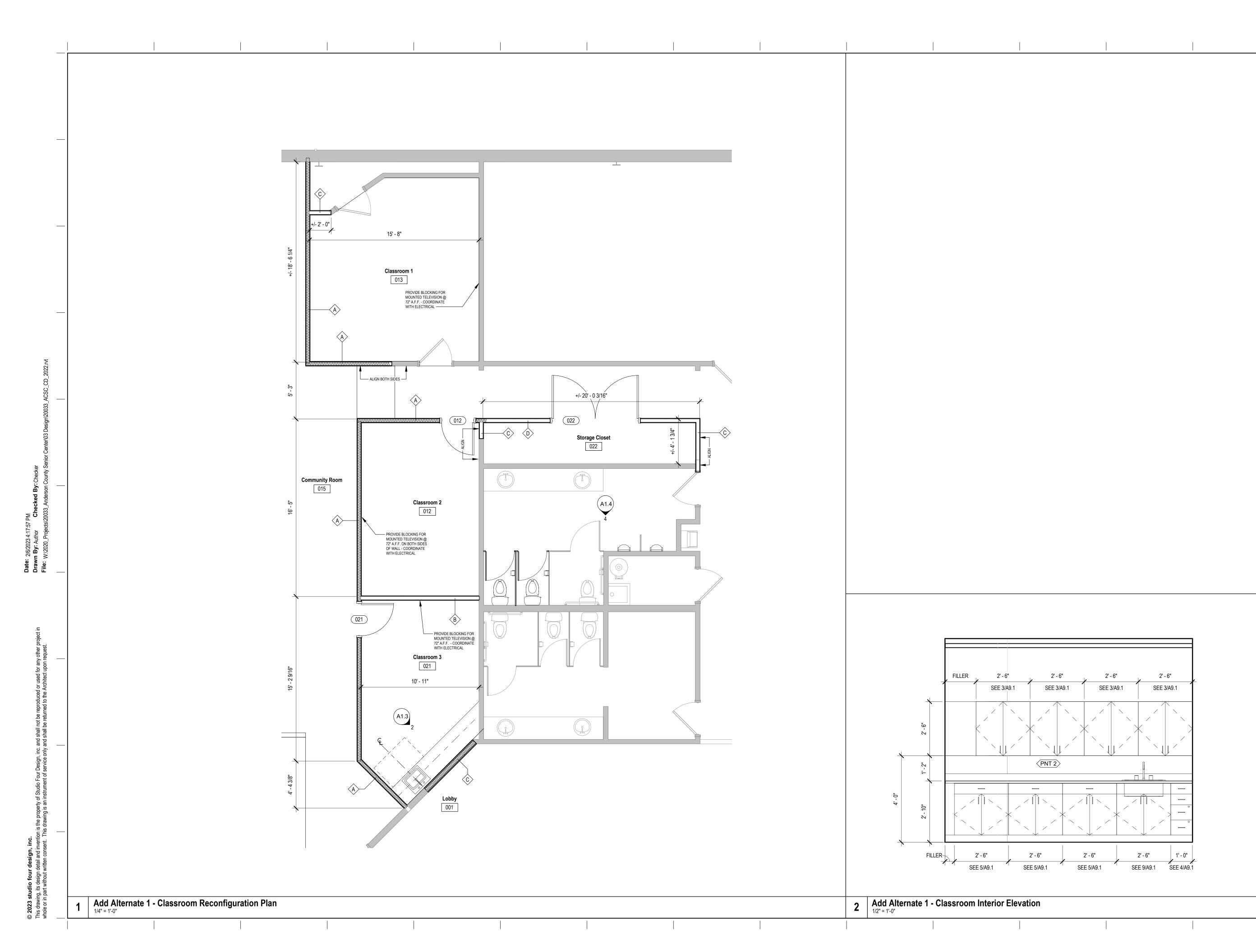


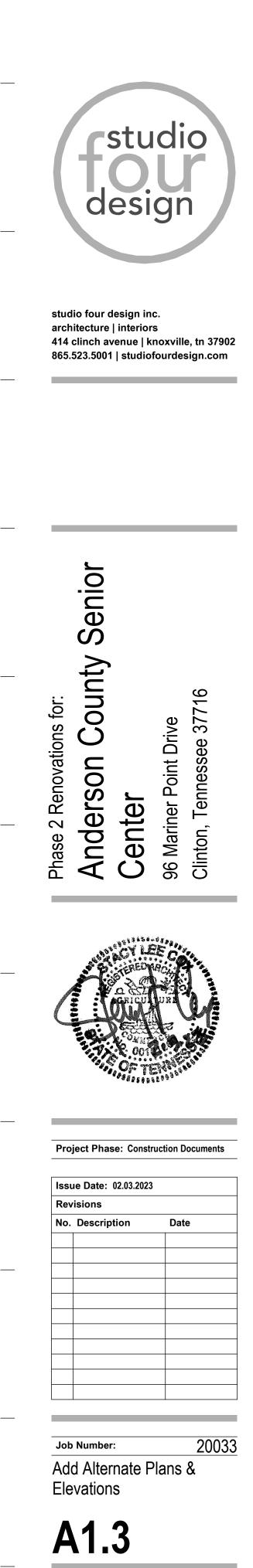
	À		5/8 0. BE M( PL A	ypical Sound Attenuating F 8" GYPSUM BOARD ON BOTH .C. PROVIDE SOUND ATTENUA ETTER IN CAVITY. EXTEND WA IOISTURE-RESISTANT GYPSUM LUMBING FIXTURE, IS LOCATE PLUMBING FIXTURE. ypical Partition (3-5/8" Meta	SIDES OF 3 5/8" METAL STUDS ATING INSULATION OF 42 STC ALL ASSEMBLY TO DECK. PRO A BOARD IF WALL FACE CONT D IN A RESTROOM, OR IS WIT	S AT 16" OR VIDE AINS A		
	©			WPICAL PARTITION (3-5/0 WEAR 8" GYPSUM BOARD ON BOTH XTEND WALL ASSEMBLY TO 12 ROVIDE MOISTURE-RESISTAN ONTAINS A PLUMBING FIXTUR ITHIN 2' OF A PLUMBING FIXTUR MITHIN 2' OF A PLUMBING FIXTUR IFILL PARTITION TO MATCH E2	SIDES OF 3 5/8" METAL STUDS 2'-0" A.F.F OR 6" ABOVE FINISH T GYPSUM BOARD IF WALL FA E, IS LOCATED IN A RESTROC JRE. <b>g Adjacent)</b>	HED CEILING. ACE DM, OR IS		
1	Wall Ty NTS	ype Legend						
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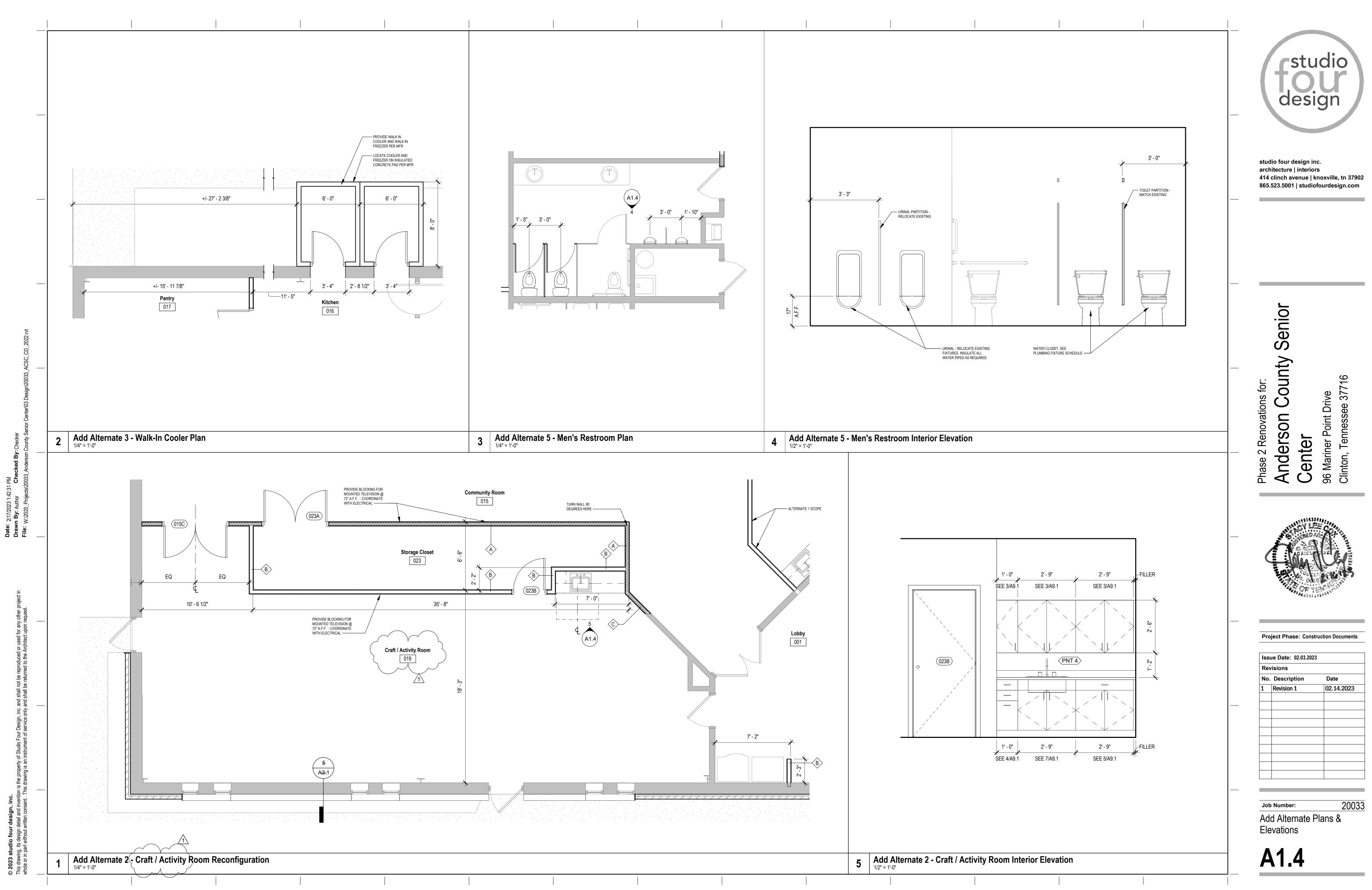


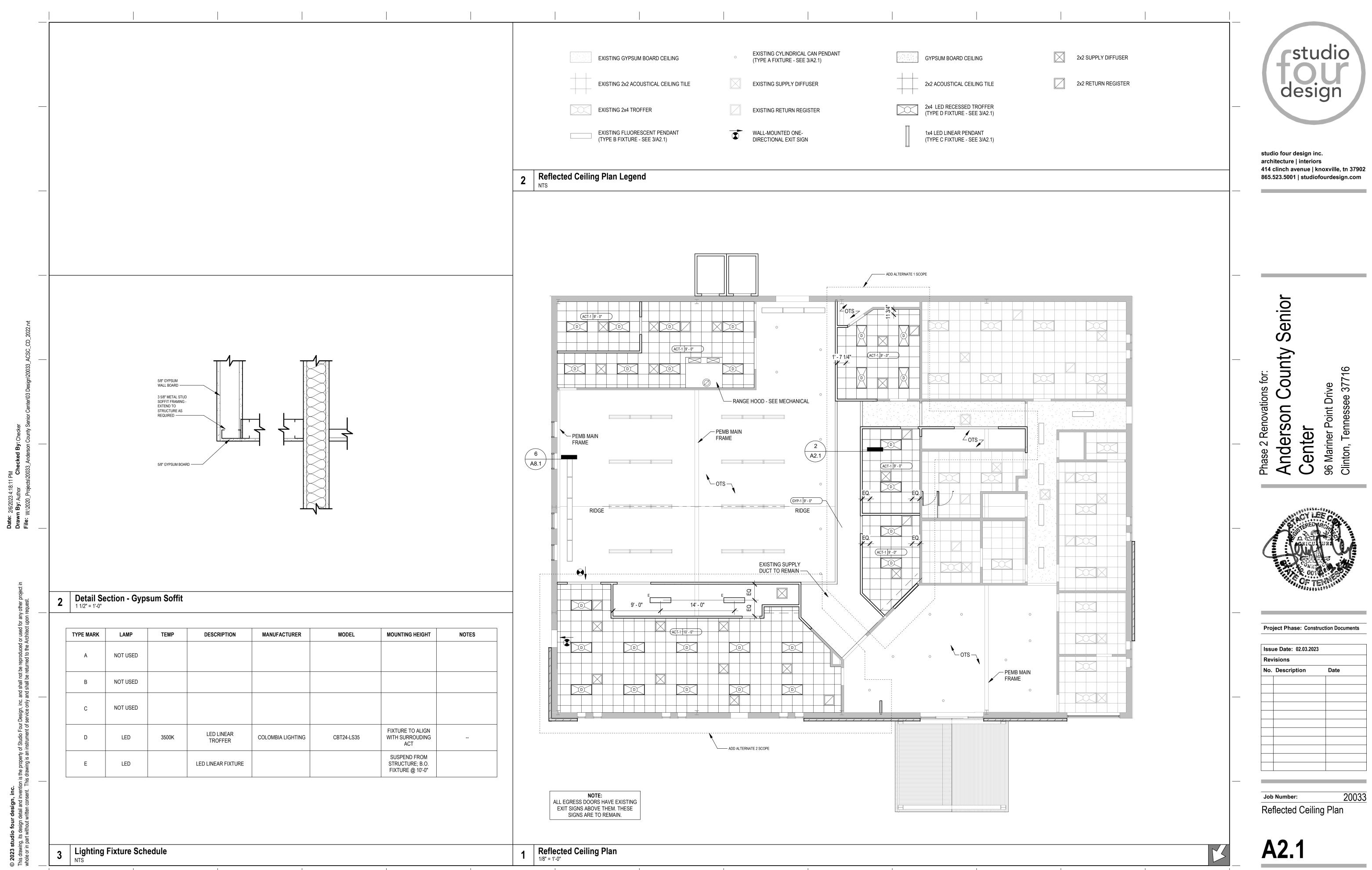


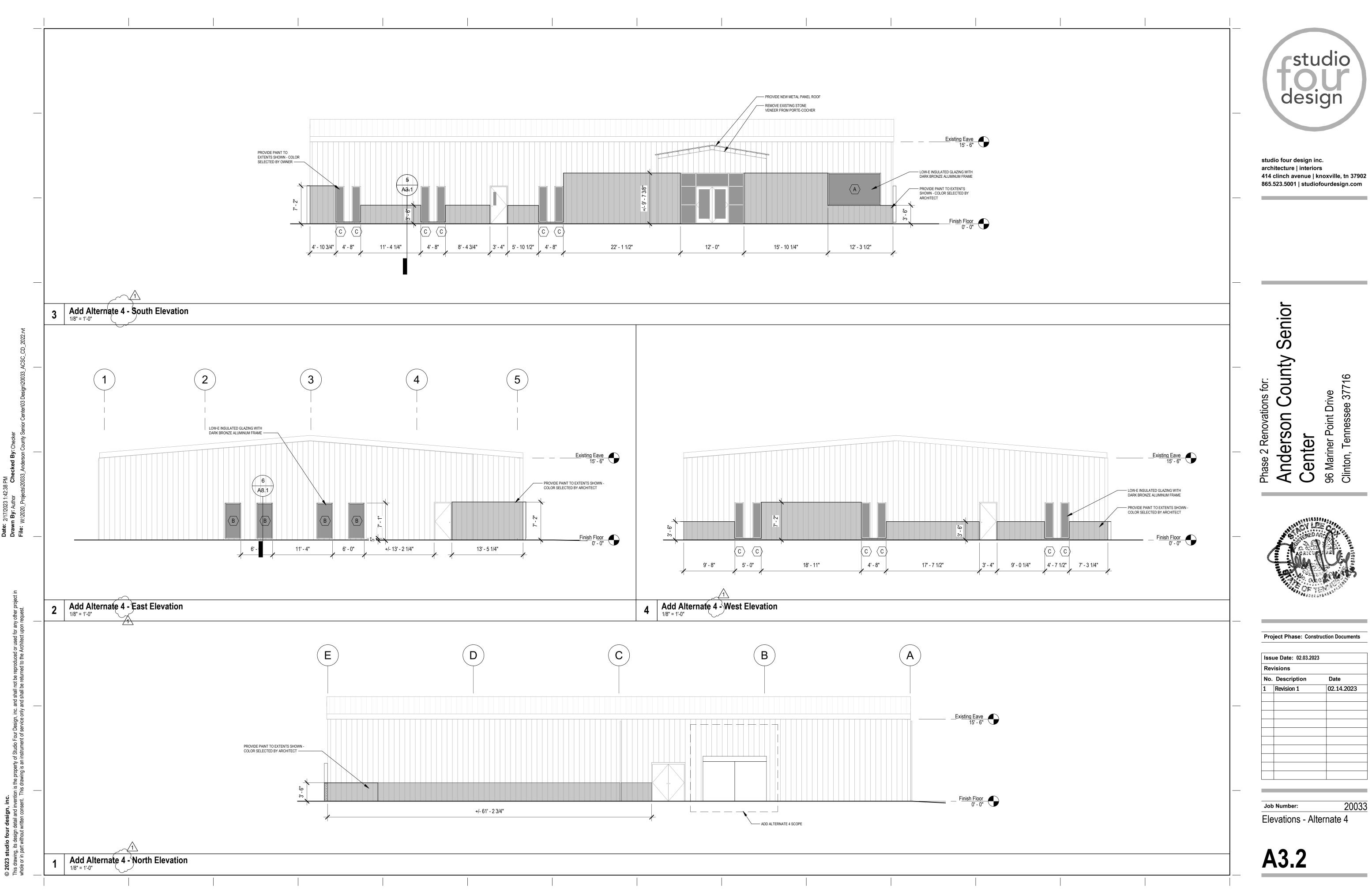
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Description	Dimensions	Manufacturer	Model Number	Furnished By	Installed By	Vendor	Quantity	Notes	studio
Commercial Gas Range w/ Double Oven	60" x 28-1/2" x 60-3/8"	eQuipped by KaTom	R10-G24	General Contractor	General Contractor	KaTom	1		
3-Compartment Commercial Utility Sink	72" x 20" x 33-1/2" 17" x 15"	Eagle Group	B6C-18	General Contractor	General Contractor	KaTom	1		design
Handwashing Sink	26" x 26" x 40"	Vollrath	K1410-CP	General Contractor Owner	General Contractor Owner	KaTom	1	Mount 34" A.F.F.	
Ice Maker Freezer	35" x 29" x 67-1/2"	-	-	Owner	Owner	-	1		
Freezer	35" x 31" x 73-1/2"		- -	Owner	Owner	-	2		studio four design inc. architecture   interiors
Refrigerator	30" x 32" x 65"			Owner	Owner		1		414 clinch avenue   knoxville, tn 37902 865.523.5001   studiofourdesign.com
Refrigerator	28" x 29 1/4" x 62"			Owner	Owner		2		_
Commercial Work Table	24" x 60" x 35-1/2"	Advance Tabco	TTF-245-X	Owner	Owner		2		
Commercial Work Table	24" x 48" x 35-1/2"	Advance Tabco	TTF-244-X	Owner	Owner		2		
Shelving Units				Owner	Owner				
Vent Hood	See Mechanical	See Mechanical	See Mechanical	General Contractor	General Contractor	See Mechanical	1		
FRIEZER	FREEZER	9 -9 -100R DRAIN - SEE PL - FLOOR CLEAN-OUT - SI - SI	EE PLUMBING	$\frac{4}{4}$	ICE MAKER		1		Log Number: 2003: Kitchen Equipment Plan & Clinton, Tennessee 37716
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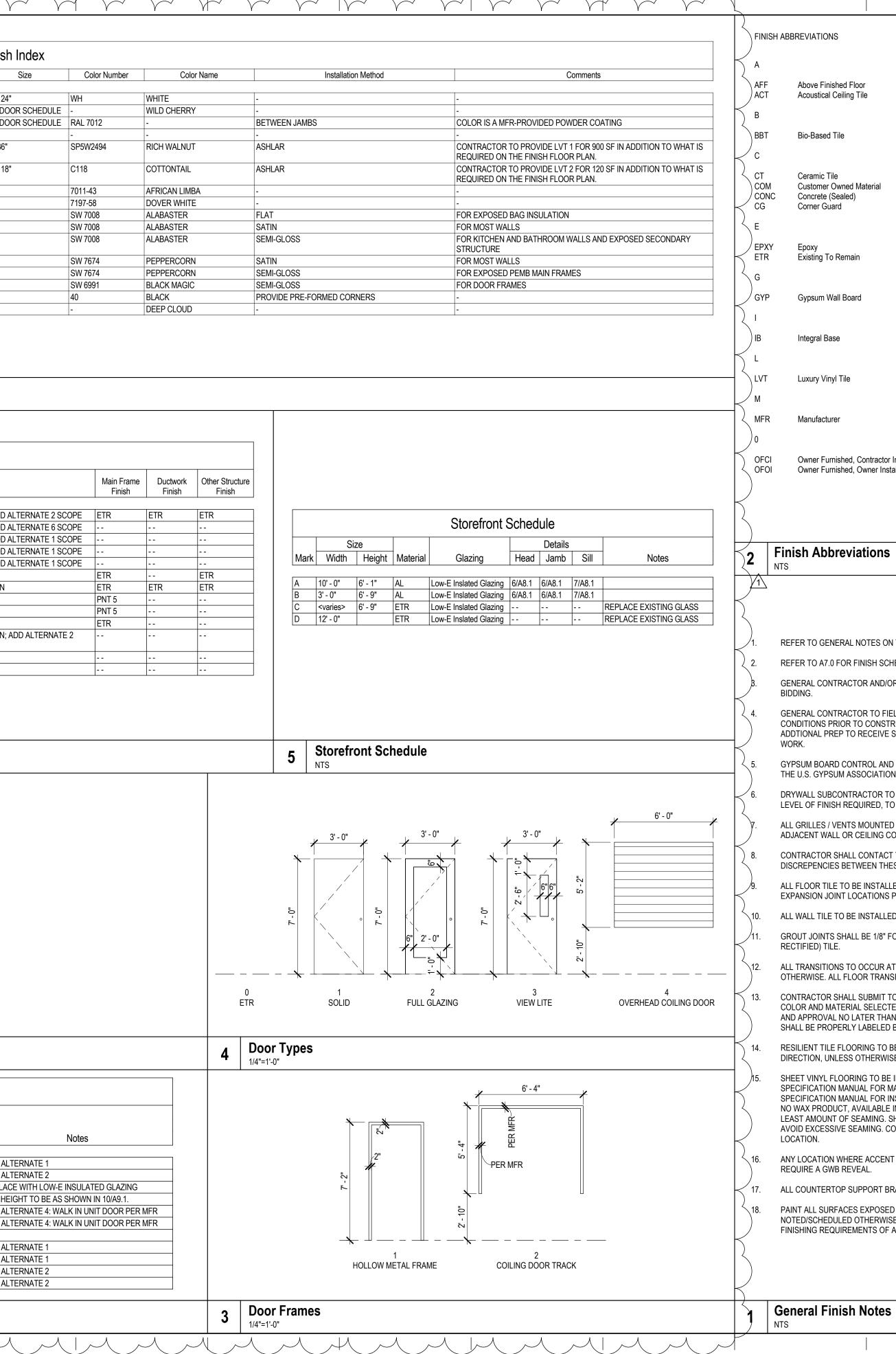


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ACT		USTIC CEILING TILE		ARMSTRONG		MINERAL FIBER & FIBERGLAS	2		24
DR 1		RS - RESTAURANT		ELIASON		LIGHT DUTY RESTAURANT DC		- TRAFFIC DOOR	S
DR 1 DR 2		RS - OVERHEAD ROL		CORNELL		ROLLING COUNTER DOOR	ESC10		S
ETR		TING TO REMAIN	LING	CORNELL		ROLLING COONTER DOOR	E3010	-	
LVT 1		JRY VINYL TILE		MANNINGTON		SPACIA FIRST 20	-	WOOD	6
LVT 2	LUXI	JRY VINYL TILE		MANNINGTON		COLOR ANCHOR	-	GROOVE	1
PLAM 1	PLAS	STIC LAMINATE		FORMICA		ARTISAN FINISH	-	-	-
PLAM 2	PLAS	STIC LAMINATE		FORMICA		MATTE FINISH	-	-	-
PNT 1	PAIN			SHERWIN WILLI	AMS	-	-	-	-
PNT 2	PAIN			SHERWIN WILLI		-	-	-	-
PNT 3	PAIN	Т		SHERWIN WILLI	AMS	-	-	-	-
PNT 4	PAIN	<u>т</u>		SHERWIN WILLI	AMS	-	-	-	-
PNT 5	PAIN	Т		SHERWIN WILLI	AMS	-	-	-	-
PNT 6	PAIN	Т		SHERWIN WILLI	AMS	-	-	-	-
RUB 1	RUBI	BER BASE		JOHNSONITE / T	FARKETT	TRADITIONAL WALL BASE	-	-	4
SSM 1	SOLI	D SURFACE MATERIA	AL.	CORIAN		SOLID SURFACE	-	-	-
	sh Schedule								
Finis NTS						Finish S	Schedule		
NTS			Base			Finish S			
	Room Name	Floor Finish	Base Finish	Wall Finish	Horizontal	1	Schedule Ceiling Finish	Comn	nents
NTS Room Number	Lobby	ETR	Finish RUB 1	PNT 2	Horizontal	Millwork Vertical	Ceiling Finish R TOUCH UP AD	JACENT FINISHES AS RE	QUIRED
NTS Room Number	Lobby Existing Men's Restroom	ETR	Finish RUB 1 ETR	PNT 2 ETR	Horizontal	Millwork Vertical ET ET	Ceiling Finish R TOUCH UP AD R TOUCH UP AD	JACENT FINISHES AS REI JACENT FINISHES AS REI	QUIRED QUIRED
NTS Room Number 001 008 011	Lobby Existing Men's Restroom Hallway	ETR ETR ETR	Finish RUB 1 ETR RUB 1	PNT 2 ETR PNT 4	Horizontal	Millwork         Vertical            ET            ET            ET	Ceiling Finish R TOUCH UP AD R TOUCH UP AD R TOUCH UP AD	JACENT FINISHES AS REI JACENT FINISHES AS REI JACENT FINISHES AS REI	QUIRED QUIRED QUIRED
NTS Room Number 001 008 011 012	Lobby Existing Men's Restroom Hallway Classroom 2	ETR ETR ETR LVT 1	Finish RUB 1 ETR RUB 1 RUB 1	PNT 2 ETR PNT 4 PNT 2	Horizontal	Millwork         Vertical            ET            ET            ET            ET            AC	Ceiling Finish R TOUCH UP AD R TOUCH UP AD R TOUCH UP AD T 1 TOUCH UP AD	JACENT FINISHES AS REI JACENT FINISHES AS REI JACENT FINISHES AS REI JACENT FINISHES AS REI	QUIREE QUIREE QUIREE QUIREE
NTS Room Number 001 008 011 012 013	Lobby Existing Men's Restroom Hallway Classroom 2 Classroom 1	ETR ETR ETR LVT 1 LVT 1	Finish RUB 1 ETR RUB 1	PNT 2 ETR PNT 4		Millwork         Vertical            ET            ET            ET            ET            AC	Ceiling Finish R TOUCH UP AD R TOUCH UP AD R TOUCH UP AD T 1 TOUCH UP AD	JACENT FINISHES AS REI JACENT FINISHES AS REI JACENT FINISHES AS REI	QUIRED QUIRED QUIRED QUIRED
NTS Room Number 001 008 011 012 013 014	Lobby Existing Men's Restroom Hallway Classroom 2 Classroom 1 Closet	ETR ETR ETR LVT 1 LVT 1 ETR	Finish RUB 1 ETR RUB 1 RUB 1 RUB 1 	PNT 2 ETR PNT 4 PNT 2 PNT 2 		Millwork         Vertical            ET            AC            AC	Ceiling Finish R TOUCH UP AD R TOUCH UP AD R TOUCH UP AD T1 TOUCH UP AD T1 TOUCH UP AD 	JACENT FINISHES AS RE JACENT FINISHES AS RE JACENT FINISHES AS RE JACENT FINISHES AS RE JACENT FINISHES AS RE	QUIRED QUIRED QUIRED QUIRED QUIRED
NTS Room Number 001 008 011 012 013 014 015	Lobby Existing Men's Restroom Hallway Classroom 2 Classroom 1 Closet Community Room	ETR ETR ETR LVT 1 LVT 1 ETR LVT 1, LVT 2	Finish RUB 1 ETR RUB 1 RUB 1 RUB 1  RUB 1	PNT 2 ETR PNT 4 PNT 2 PNT 2  PNT 2; PNT 4	     	Millwork         Vertical            ET            ET            ET            AC            AC                AC                    AC                OT	Ceiling Finish R TOUCH UP AD R TOUCH UP AD R TOUCH UP AD T 1 TOUCH UP AD	JACENT FINISHES AS REI JACENT FINISHES AS REI JACENT FINISHES AS REI JACENT FINISHES AS REI	QUIRED QUIRED QUIRED QUIRED QUIRED
NTS Room Number 001 008 011 012 013 014 015 016	Lobby Existing Men's Restroom Hallway Classroom 2 Classroom 1 Closet	ETR ETR ETR LVT 1 LVT 1 ETR	Finish RUB 1 ETR RUB 1 RUB 1 RUB 1 	PNT 2 ETR PNT 4 PNT 2 PNT 2 		Millwork         Vertical            ET            ET            ET            AC            AC	Ceiling Finish R TOUCH UP AD R TOUCH UP AD R TOUCH UP AD T1 TOUCH UP AD T1 TOUCH UP AD 	JACENT FINISHES AS RE JACENT FINISHES AS RE JACENT FINISHES AS RE JACENT FINISHES AS RE JACENT FINISHES AS RE	QUIRE QUIRE QUIRE QUIRE QUIRE

Date Drav File:

(	017 Par 019 Cra	ntry ft / Activity Room	LVT 2 LVT 1	RUB 1 RUB 1	PNT 2 PNT 2; PNT 4	 PLAM 2	 PLAM 1	ACT 1 ACT 1	 ADD AL	TERNATE 2 SCOPI	E
	UI9  Cra	III / ACTIVITY ROOM		KUB 1	PN12; PN14	PLAIVI Z		IACE1	i add Al	IERNATE 2 SCOPI	<u> </u>
10	021 Cla	coroom ?	11/1 1	4 חוום						FLOORING WITH M	
		ssroom 3	LVT 1	RUB 1	PNT 2	PLAM 2	PLAM 1	ACT 1	SCOPE		
	022 Sto	rage Closet	ETR					OTS		TERNATE 1 SCOPI	F
		rage Closet	ETR					OTS		TERNATE 2 SCOPI	
	Locksets - Flush Bolts - Door Closer Push & Pull Door Stops Silencers - All locksets : Provide doo	rrs: - Hager (HAG) Falcon (FAL) - Hager (HAG) s - LCN (LCN) Plates - Hager (H - Hager (HAG) Ives (IVE) shall be master keyed into r closers to comply with the dware sets as follows: <u>Model N</u> BB1279	the existing master key sys a State Handicap Code with <u>lumber Man</u> -4.5x4.5 HAG	ufacturer Finish 652 626		e of doors away from public area	Set#: 2 Provide Per [ <u>Quantity</u> 6 2 1 2 2 s. Provide Per [ <u>Quantity</u> 6 2 2 2 2 2 2 2 2 2	Item Butt Hinges Flush Bolts Storeroom Lever Door Stops Silencers	Model Number BB1279-4.5x4.5 282D B581P6-D 236W SR64 Model Number BB1279-4.5x4.5 30S-8"x16" 35D-4"x16" 1461 As Required SR64	HAG G FAL G HAG G IVE - HAG G HAG G LCN G HAG G	652 626 626 630
<u>Quar</u> 3 1	Classroom L	ever B561P6									
3		ever B561P6 236W SR64	HAG IVE	630			Set#: 4 Provide Per [ <u>Quantity</u> 3 1 1 3	Door: <u>Item</u> Butt Hinges Storeroom Lever Door Stop Silencers	Model Number BB1279-4.5x4.5 B581P6-D As Required SR64	FAL HAG	F <u>inish</u> 652 630 
3 1 1 3	Door Stop Silencers	236W SR64	HAG				Provide Per I <u>Quantity</u> 3 1 1	Item Butt Hinges Storeroom Lever Door Stop Silencers	BB1279-4.5x4.5 B581P6-D As Required	FAL 6 HAG 6	626 630
3 1 1 3	Door Stop Silencers	236W SR64	HAG				Provide Per I <u>Quantity</u> 3 1 1 3	Item Butt Hinges Storeroom Lever Door Stop Silencers	BB1279-4.5x4.5 B581P6-D As Required SR64	FAL 6 HAG 6	626 630 
3 1 3 7	Door Stop Silencers	236W SR64	HAG		 Door Materi	ial Door Type	Provide Per I <u>Quantity</u> 3 1 1 3	Item Butt Hinges Storeroom Lever Door Stop Silencers	BB1279-4.5x4.5 B581P6-D As Required SR64	FAL 6 HAG 6	626 630
<b>7</b>	Door Stop Silencers Door H 1/4"=1'-0" Door Number	236W SR64	HAG IVE	Door Thickness			Provide Per I Quantity 3 1 3 3 <b>Door Sc</b> Door Finish	Item Butt Hinges Storeroom Lever Door Stop Silencers	es Frame Type	FAL 6 HAG 0 IVE -	Hardware
<b>7</b>	Door Stop Silencers Door H 1/4"=1'-0" Door Number	236W SR64	HAG IVE	Door 0' - 1 3/4"	WD	2	Provide Per I Quantity 3 1 3 3 Door Sc Door Finish	Item Butt Hinges Storeroom Lever Door Stop Silencers Chedule Fram Frame Material	es Frame Type	FAL 6 HAG 0 IVE -	Hardware Hardware
<b>7</b>	Door Stop Silencers 1/4"=1'-0" Door Number 012 015C	236W SR64	HAG IVE Size Height 7' - 0" 7' - 0"	Door Door 0' - 1 3/4" 0' - 1 3/4"	WD WD	2 2	Provide Per I Quantity 3 1 3 3 <b>Door Sc</b> Door Finish WD WD	Item Butt Hinges Storeroom Lever Door Stop Silencers Chedule Fram Frame Material HM HM	BB1279-4.5x4.5 B581P6-D As Required SR64 es Frame Type 1 1	FAL HAG IVE Frame Finish PNT 6 PNT 6	Hardware Hardware
<b>7</b>	Door Stop Silencers Door H 1/4"=1'-0" Door Number 012 015C 015D	236W SR64	HAG IVE Size Height 7' - 0" 7' - 0" 6' - 10"	Door Door Di - 1 3/4" 0' - 1 3/4" 0' - 1 3/4"	WD WD ETR	2 2 3	Provide Per I Quantity 3 1 3 3 Door Sc Door Finish WD WD ETR	Item Butt Hinges Storeroom Lever Door Stop Silencers Chedule Fram Frame Material HM HM HM ALUMINUM	BB1279-4.5x4.5 B581P6-D As Required SR64 ees Frame Type 1 1 2	FAL HAG IVE Frame Finish PNT 6 PNT 6 DR 2	Hardware Hardware Hardware
<b>7</b>	Door Stop Silencers Door H 1/4"=1'-0" Door Number 012 015C 015D 16C	236W SR64	HAG IVE Size Height 7' - 0" 6' - 10" 5' - 2"	Door Door Thickness 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4" *MFR TO PRC	WD WD ETR DVIDE CRANK OPE	2 2	Provide Per I Quantity 3 1 3 3 Door Finish WD WD ETR -TURN LOCK ON 1	Item Butt Hinges Storeroom Lever Door Stop Silencers Chedule Fram Frame Material HM HM HM ALUMINUM THE SIDE OF OVE	BB1279-4.5x4.5 B581P6-D As Required SR64 ees Frame Type 1 1 2	FAL HAG IVE Frame Finish PNT 6 DR 2 R FACING THE KITO	Hardware Hardware Hardware
<b>7</b>	Door Stop Silencers Door H 1/4"=1'-0" Door Number 012 015C 015D 16C 16D	236W SR64	HAG IVE Size Height 7' - 0" 6' - 10" 5' - 2" 7' - 0"	Door Door Door 0' - 1 3/4" 0' - 1 3/4"	WD WD ETR DVIDE CRANK OPE PER MFR	2 2 3 RATION AND THUME 0	Provide Per I Quantity 3 1 3 Door Finish WD WD ETR -TURN LOCK ON T PER MFR	Item But Hinges Storeroom Lever Door Stop Silencers Chedule Fram Frame Material HM HM ALUMINUM FHE SIDE OF OVE BRAKE METAL	BB1279-4.5x4.5 B581P6-D As Required SR64 ees Frame Type 1 1 2	FAL HAG IVE Frame Finish PNT 6 PNT 6 PNT 6 DR 2 R FACING THE KITO PER MFR	Hardware Hardware Hardware
<b>7</b>	Door Stop Silencers Door H 1/4"=1'-0" Door Number 012 015C 015D 16C 16D 16E	236W SR64	HAG IVE Size Height 7' - 0" 7' - 0" 6' - 10" 5' - 2" 7' - 0" 7' - 0" 7' - 0"	Door Door Di- 1 3/4" 0' - 1 3/4" 0' - 1 3/4" *MFR TO PRC 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4"	WD WD ETR DVIDE CRANK OPEI PER MFR PER MFR	2 2 3	Provide Per I Quantity 3 1 3 Door Finish WD WD ETR -TURN LOCK ON T PER MFR PER MFR	Item Butt Hinges Storeroom Lever Door Stop Silencers Chedule Fram Frame Material HM HM HM ALUMINUM THE SIDE OF OVE BRAKE METAL BRAKE METAL	BB1279-4.5x4.5 B581P6-D As Required SR64 ees Frame Type 1 1 2	FAL HAG IVE Frame Finish PNT 6 PNT 6 PNT 6 DR 2 R FACING THE KITO PER MFR PER MFR	Hardware Hardware Hardware
<b>7</b>	Door Stop Silencers Door H 1/4"=1'-0" Door Number 012 015C 015D 16C 16D 16E 017	236W SR64	HAG IVE Size Height 7' - 0" 6' - 10" 5' - 2" 7' - 0" 5' - 2" 7' - 0" 7' - 0" 7' - 0"	Door Door Thickness 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4" *MFR TO PRC 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4"	WD WD ETR DVIDE CRANK OPE PER MFR PER MFR WD	2 2 3 RATION AND THUME 0	Provide Per I Quantity 3 1 3 3 Door Finish WD ETR -TURN LOCK ON T PER MFR PER MFR WD	Item Butt Hinges Storeroom Lever Door Stop Silencers Chedule Fram Frame Material HM HM ALUMINUM THE SIDE OF OVE BRAKE METAL BRAKE METAL BRAKE METAL HM	BB1279-4.5x4.5 B581P6-D As Required SR64 ees Frame Type 1 1 2	FAL HAG IVE Frame Finish PNT 6 PNT 6 DR 2 R FACING THE KITO PER MFR PER MFR PRT 6	Hardware Hardware Hardware
<b>7</b>	Door Stop Silencers Door H 1/4"=1'-0" Door Number 012 015C 015D 16C 16D 16E 017 021	236W SR64	HAG IVE Size Height 7' - 0" 6' - 10" 6' - 10" 5' - 2" 7' - 0" 7' - 0" 7' - 0" 7' - 0" 7' - 0" 7' - 0"	Door Door Door 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4" *MFR TO PRC 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4"	WD WD ETR DVIDE CRANK OPE PER MFR PER MFR WD WD	2 2 3 RATION AND THUME 0	Provide Per I Quantity 3 1 3 3 Door Finish WD WD ETR -TURN LOCK ON 1 PER MFR PER MFR PER MFR WD WD	Item Butt Hinges Storeroom Lever Door Stop Silencers Chedule Fram Frame Material HM HM ALUMINUM THE SIDE OF OVE BRAKE METAL BRAKE METAL BRAKE METAL HM HM	BB1279-4.5x4.5 B581P6-D As Required SR64 ees Frame Type 1 1 2	FAL HAG IVE Frame Finish PNT 6 PNT 6 DR 2 FACING THE KITO PER MFR PER MFR PNT 6 PNT 6 PNT 6 PNT 6 PNT 6	Hardware Hardware Hardware 1 3 ETR CHEN PER MFR PER MFR 4 1
<b>7</b>	Door Stop Silencers Door H 1/4"=1'-0" Door Number 012 015C 015D 16C 16D 16C 16D 16E 017 021 022	236W SR64	HAG IVE Size Height 7' - 0" 7' - 0" 6' - 10" 6' - 10" 5' - 2" 7' - 0" 7' - 0" 7' - 0" 7' - 0" 7' - 0" 7' - 0" 7' - 0"	Door Door Door Di - 1 3/4" 0' - 1 3/4"	WD WD ETR DVIDE CRANK OPEI PER MFR PER MFR WD WD WD WD	2 2 3 RATION AND THUME 0	Provide Per I Quantity 3 1 1 3 Door Finish WD WD ETR -TURN LOCK ON T PER MFR PER MFR PER MFR WD WD WD WD	Item But Hinges Storeroom Lever Door Stop Silencers Chedule Fram Frame Material HM HM HM HM HM HM HM HM HM HM HM HM HM	BB1279-4.5x4.5 B581P6-D As Required SR64 ees Frame Type 1 1 2	FAL HAG IVE Frame Finish PNT 6 PNT 6 DR 2 R FACING THE KITO PER MFR PER MFR PER MFR PER MFR PNT 6 PNT 6 PNT 6 PNT 6 PNT 6 PNT 6	Hardware Hardware Hardware Hardware
<b>7</b>	Door Stop Silencers Door H 1/4"=1'-0" Door Number 012 015C 015D 16C 16D 16E 017 021	236W SR64	HAG IVE Size Height 7' - 0" 6' - 10" 6' - 10" 5' - 2" 7' - 0" 7' - 0" 7' - 0" 7' - 0" 7' - 0" 7' - 0"	Door Door Door 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4" *MFR TO PRC 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4"	WD WD ETR DVIDE CRANK OPE PER MFR PER MFR WD WD	2 2 3 RATION AND THUME 0	Provide Per I Quantity 3 1 3 3 Door Finish WD WD ETR -TURN LOCK ON 1 PER MFR PER MFR PER MFR WD WD	Item Butt Hinges Storeroom Lever Door Stop Silencers Chedule Fram Frame Material HM HM ALUMINUM THE SIDE OF OVE BRAKE METAL BRAKE METAL BRAKE METAL HM HM	BB1279-4.5x4.5 B581P6-D As Required SR64 es Frame Type 1 1 2 RHEAD DOOF 1 1 1 1 1 1 1 1 1 1 1	FAL HAG IVE Frame Finish PNT 6 PNT 6 DR 2 FACING THE KITO PER MFR PER MFR PNT 6 PNT 6 PNT 6 PNT 6 PNT 6	Hardware Hardware Hardware 1 3 ETR CHEN PER MFR PER MFR 4 1



NS		
	Ρ	
nished Floor I Ceiling Tile	PNT PLAM PWC PC POLY	Paint Plastic Laminate Plastic Wall Covering Polished Concrete Poly Resin
d Tile	PT	Porcelain Tile
	Q	
File Owned Material	QTZ	Quartz
(Sealed)	R	
uard	RUB	Rubber Base
	S	
o Remain Nall Board	SHT-V SHT-RUB SSM SC SST SSF	Sheet Vinyl Sheet Rubber Solid Surface Stained Concrete Stainless Steel Synthetic Stone
	V	
ase	VCT	Vinyl Composition Tile
nyl Tile	VWC WMCT	Vinyl Wallcovering Wire Management Cable Tray
iyi ino	W	
	WD	Wood

## Owner Furnished, Contractor Installed

Owner Furnished, Owner Installed

REFER TO GENERAL NOTES ON T0.0

REFER TO A7.0 FOR FINISH SCHEDULE AND LEGEND.

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.

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.

ALL FLOOR TILE TO BE INSTALLED PER TCNA F128-12 AND TCNA EJ171 COORDINATE EXPANSION JOINT LOCATIONS PER STRUCTURAL DRAWINGS.

ALL WALL TILE TO BE INSTALLED PER TCNA 1243-12.

GROUT JOINTS SHALL BE 1/8" FOR RECTIFIED TILE OR 3/16" FOR CALIBRATED (NON-

ALL TRANSITIONS TO OCCUR AT THE CENTERLINE OF THE DOOR UNLESS SHOW OTHERWISE. ALL FLOOR TRANSITIONS TO BE LEVEL AND FLUSH.

CONTRACTOR SHALL SUBMIT TO THIS OFFICE ACTUAL SAMPLES, IN DUPLICATE, OF EACH COLOR AND MATERIAL SELECTED BY THE DESIGNER FOR THE DESIGNER'S VERIFICATION AND APPROVAL NO LATER THAN TWO (2) WEEKS FROM DATE OF CONTRACT. SAMPLES SHALL BE PROPERLY LABELED BY PROJECT AND CODE.

RESILIENT TILE FLOORING TO BE INSTALLED WITH STRIATIONS RUNNING IN THE SAME DIRECTION, UNLESS OTHERWISE NOTED.

SHEET VINYL FLOORING TO BE 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

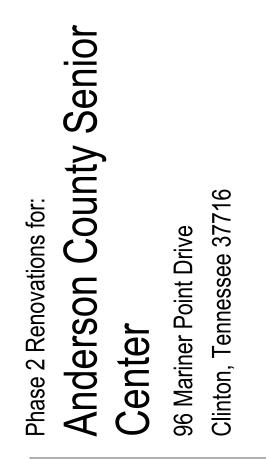
ANY LOCATION WHERE ACCENT WALL PAINT DOES NOT TERMINATE AT WALL CORNER WILL

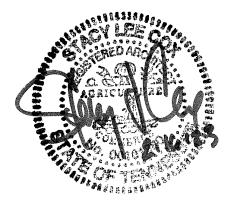
ALL COUNTERTOP SUPPORT BRACKETS SHALL BE PAINTED TO MATCH ADJACENT WALL.

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.

studic design

studio four design inc. architecture | interiors 414 clinch avenue | knoxville, tn 37902 865.523.5001 | studiofourdesign.com



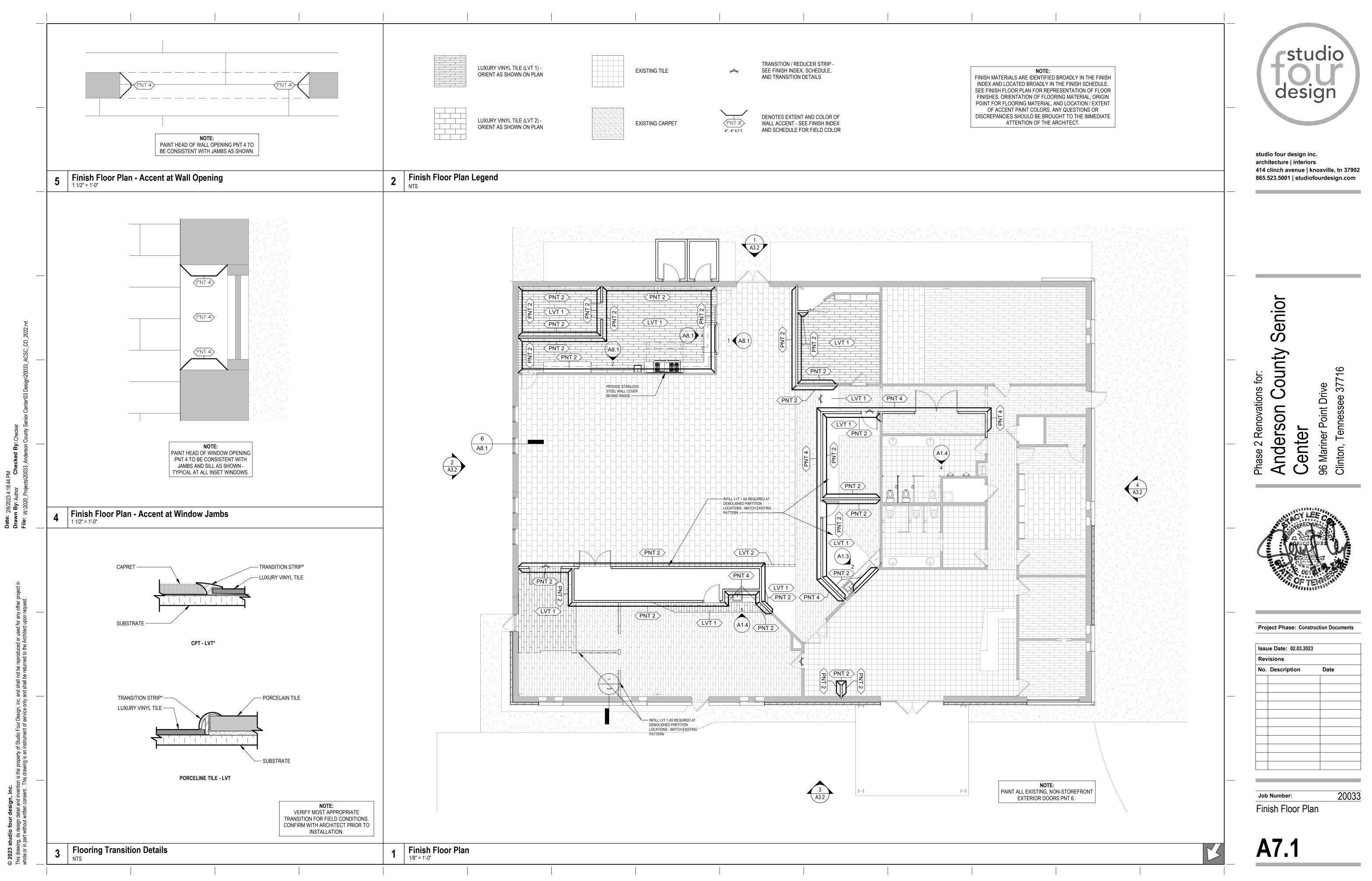


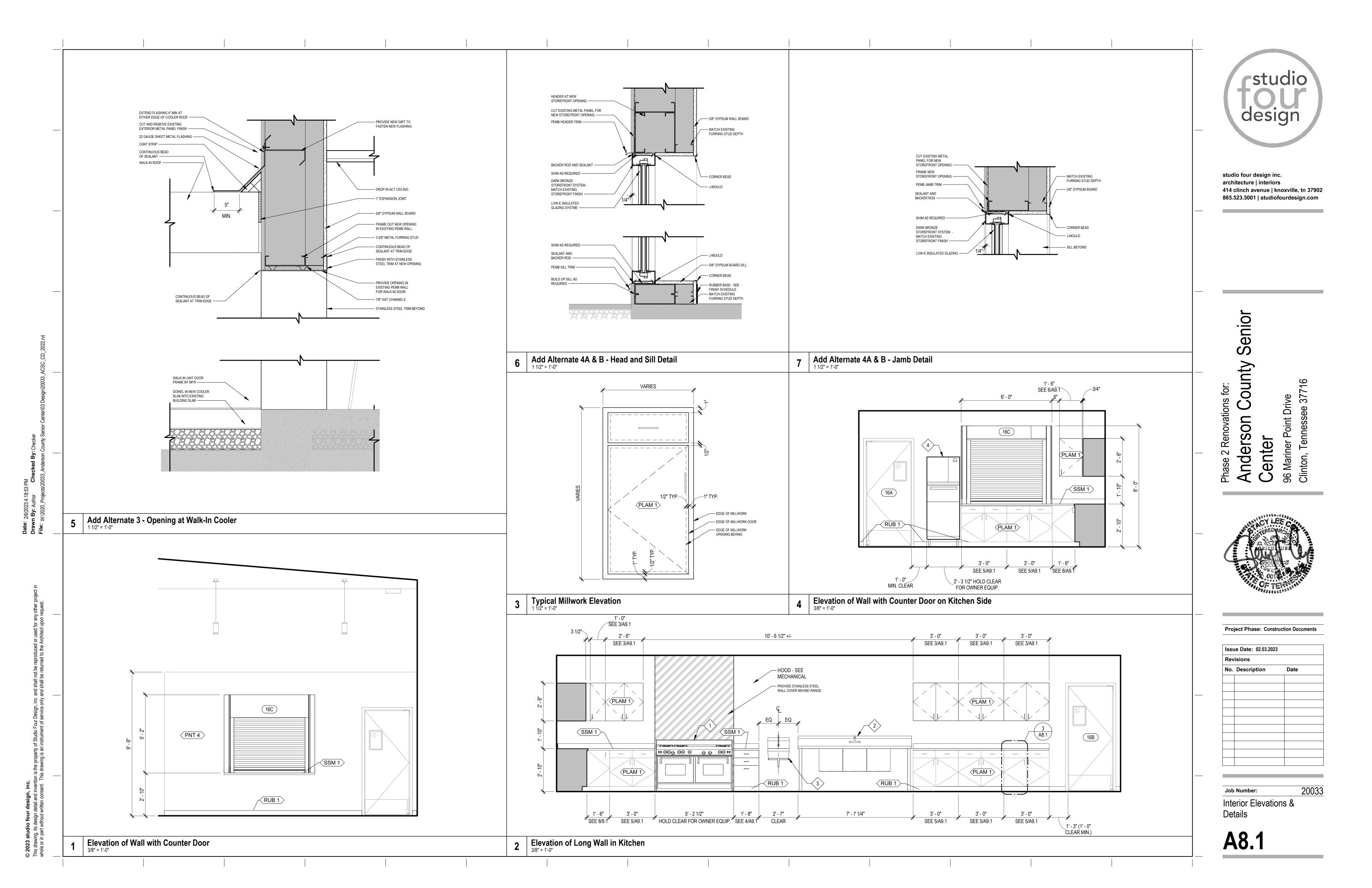
## **Project Phase:** Construction Documents

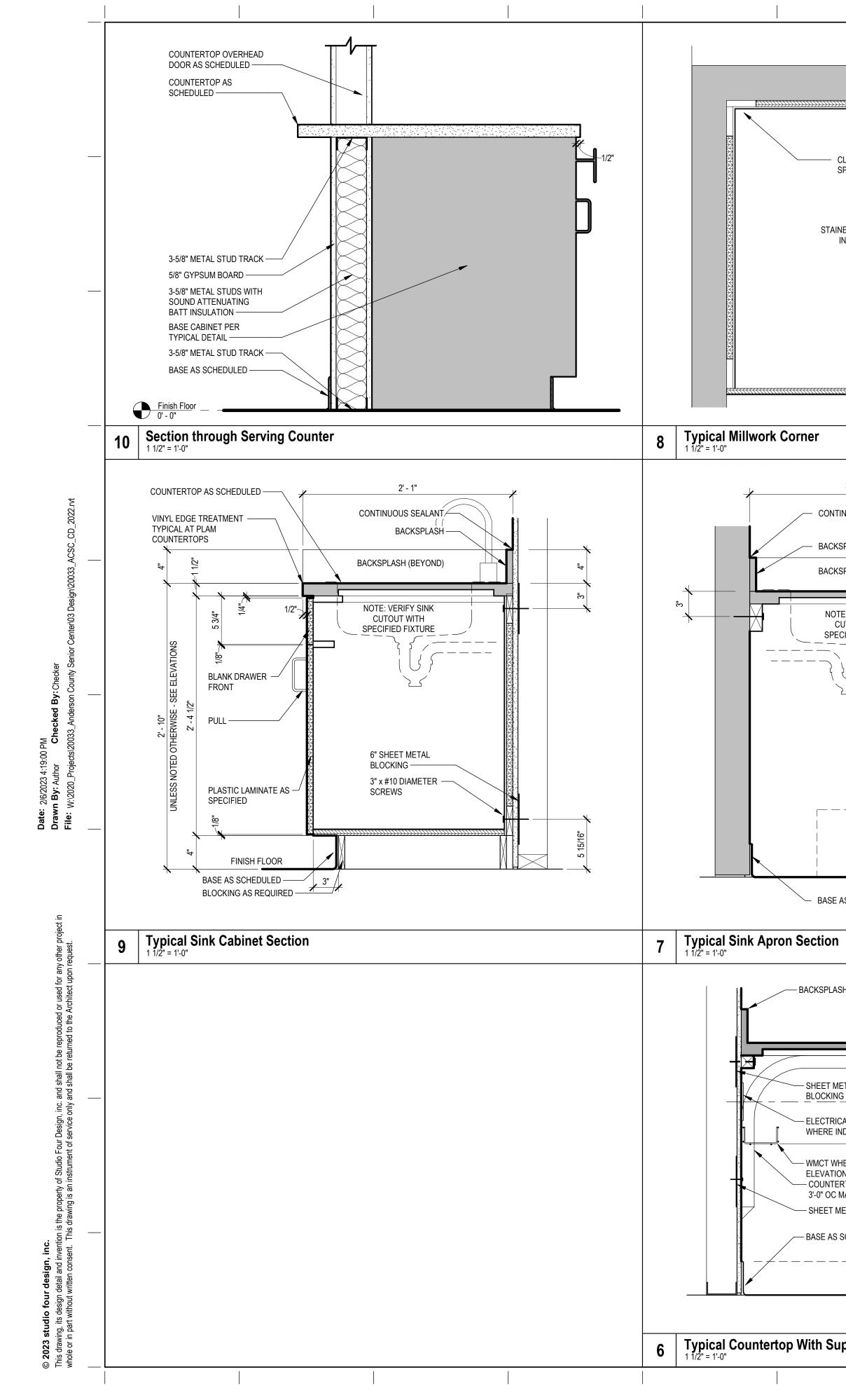
Revisions							
No	. Description	Date					
1	Revision 1	02.14.2023					

20033 Job Number: Door Schedule, Finish Index & Schedule

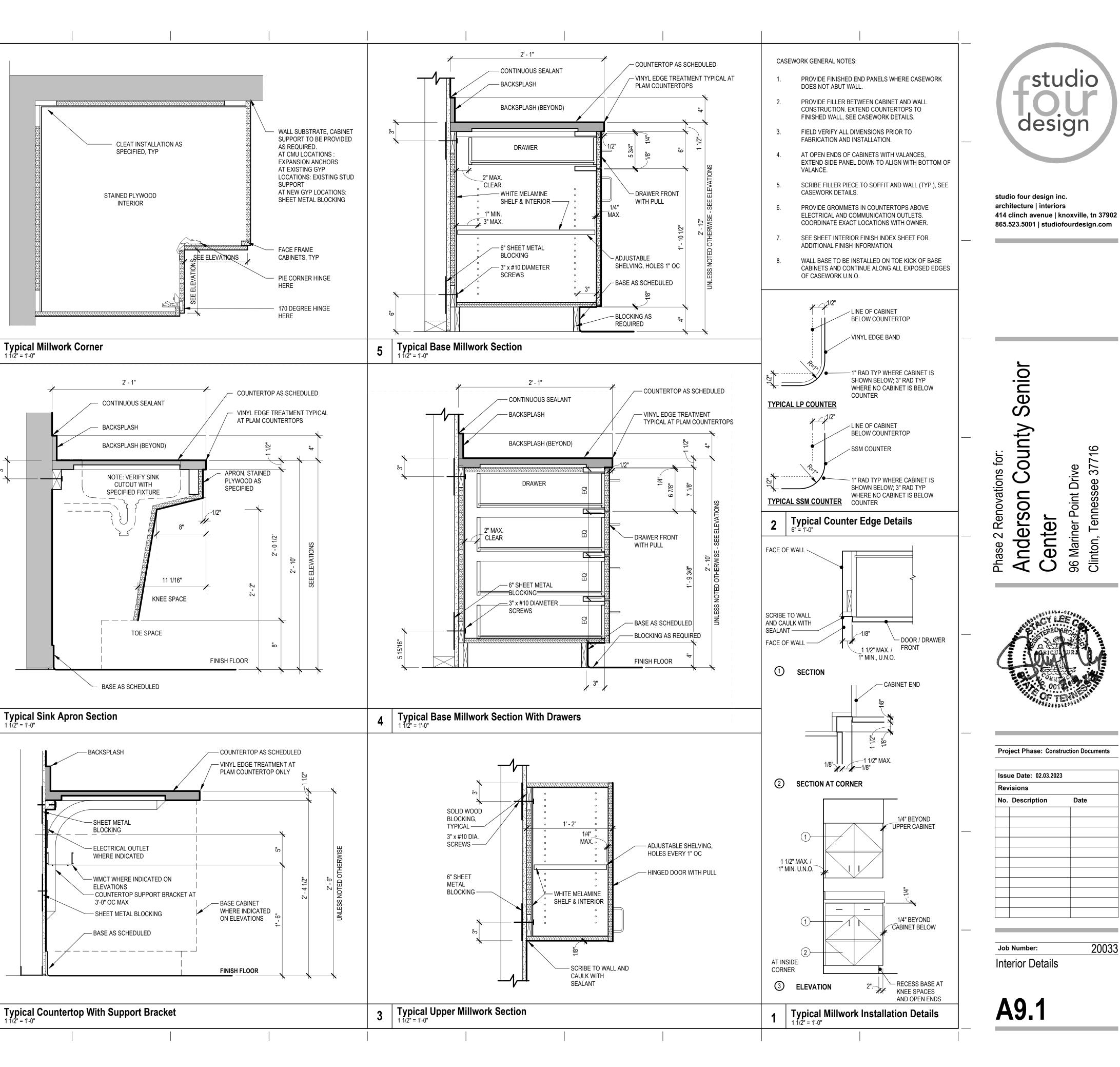








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DL Ch	s\DylanLynch\D	
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BBR	EVIATIONS			SPECIFICATIONS	SPECIFICATIONS
AV	AIR ADMITTANCE VALVE	HWR	HOT WATER RETURN		GENERAL
VС	ABOVE CEILING	IMB	ICE MACHINE BOX	SLEEVES SHALL BE PROVIDED WHERE PIPES 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	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.
/F	ABOVE FLOOR	IE	INVERT ELEVATION	OF WALLS AND SHALL ALLOW FOR THE FULL THICKNESS OF PIPE INSULATION, WHERE APPLICABLE.	ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST RECOGNIZED PRACTICE IN THE FIELD CONCERNED
FF, AFG	ABOVE FINISHED FLOOR/GRADE	L, LAV	LAVATORY	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,	MANUFACTURED ITEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED DIRECTIONS, SPECIFICATIONS AND RECOMMENDATIONS.
3/F	BELOW FLOOR	MBH	I OOO BTU/HR	UNLESS OTHERWISE NOTED.	CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND
=P	BACKFLOW PREVENTER	MS	MOP SINK	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	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 BI CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY
IG	BELOW GRADE	MV	MIXING VALVE	RATING.	ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.
)	CONDENSATE DRAIN	O/H	OVERHEAD	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	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
DNT	CONTINUATION	G	NATURAL GAS	SLEEVE.	ACCESSIBLE AND SERVICABLE. THIS EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: PLUMBING FIXTURES, WATER HEATERS, EXPANSION TANKS, PUMPS, BACKFLOW PREVENTERS, VALVES, MIXING VALVES, THERMOMETERS,
/	COLD WATER	PRV	PRESSURE REDUCING VALVE	RETURN AIR PLENUMS ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE A FLAME SPREAD	GAUGES, TRAP PRIMERS AND CLEANOUTS.
	DOWN	RP	RECIRCULATION PUMP	INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84/UL723. COPPER AND CAST IRON PIPING IS APPROVED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL RETURN AIR PLENUM LOCATIONS WITH THE MECHANICAL CONTRACTOR.	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.
	EXPANSION TANK	S, SAN	SANITARY	_	
'C	ELECTRIC WATER COOLER	SH	SHOWER	INSULATION         INSULATE ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING IN ACCORDANCE WITH IECC TABLE         C403.2.10. PIPE UP TO 11/4": 1" THICK INSULATION. PIPE 11/2" OR LARGER: 11/2" THICK INSULATION	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 WAI
	EXISTING	SK	SINK	INSULATE ALL HORIZONTAL COLD WATER PIPING LOCATED ABOVE CEILING, VERTICAL PIPING LOCATED IN AN EXTERIOR	SPACE IS INADEQUATE PRIOR TO COMMENCING WORK.
0	FLOOR CLEANOUT	TP	TRAP PRIMER	WALL, EXPOSED PIPING (I.E. MECH ROOMS). PIPE UP TO 1": 1/2" THICK. PIPING 11/4" AND OVER: 1" THICK INSULATION. ALL WATER AND DRAINAGE PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN 1" THICK PIPE	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
	FLOOR DRAIN	TYP	TYPICAL	INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION. IF INSTALLED IN EXTERIOR BLOCK WALLS, INTERSTITIAL SPACES SHALL BE FILLED WITH FOAM INSULATION.	PLUMBING FIXTURES, KITCHEN EQUIPMENT AND OWNER FURNISHED EQUIPMENT (AS APPLICABLE), AND SHALL COORDINATE THE PLUMBING INSTALLATION PRIOR TO COMMENCING THE WORK. THE CONTRACTOR IS RESPONSIB FOR PROVIDING AND INSTALLING ALL NECESSARY VALVES, CONNECTIONS, TRAPS, ACCESS PANELS, UNIONS,
1B	FREEZEPROOF HOSE BIBB	UR	URINAL	ALL JOINTS SHALL BE SEALED WITH MATCHING VAPOR BARRIER TAPE.	ESCUTCHEONS, WATER HAMMER ARRESTORS, VACUUM BREAKERS, RELIEF VALVES, PIPE INSULATION, AND EQUIPMENT SPECIALTY DEVICES AS REQUIRED TO FACILITATE COMPLETE AND OPERATIONAL CONDITIONS WHICH A
	FLOOR SINK	V	VENT	INSULATION SHALL HAVE A K-FACTOR (AVERAGE THERMAL CONDUCTIVITY) NOT TO EXCEED 0.27 BTU-IN/HR x SQFT x • F.	IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
Ή	FREEZEPROOF WALL HYDRANT	VTR	VENT THROUGH ROOF	PROTECTION OF PIPING	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
0	GRADE CLEANOUT	WC	WATER CLOSET	PIPING PASSING UNDER FOOTINGS OR THROUGH FOUNDATION WALLS SHALL BE PROVIDED WITH A SLEEVE TWICE THE DIAMETER OF THE PIPE. OPEN ENDS OF SLEEVES SHALL BE SEALED. PIPING PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED IN ACCORDANCE WITH IPC	NECESSARY PIPING OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE, WORK OF OTHER TRADES, AND CONNECTION TO SITE UTILITIES (AS APPLICABLE).
	GREASE INTERCEPTOR	W.C.	WATER COLUMN	305.1. ALL PIPING INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, RAFTERS OR SIMILAR MEMBERS SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6. VERTICAL STACKS IN WOOD	COORDINATE THE ELECTRICAL REQUIREMENTS AND CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ISSUING SUBMITTALS OR PURCHASING EQUIPMENT.
	HOSE BIBB	WCO	WALL CLEANOUT	CONSTRUCTION SHALL BE PROTECTED FROM BUILDING SETTLING WITH COMPRESSION/EXPANSION FITTINGS AND PIPE CLAMPS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS (FERNCO XJ SERIES OR EQUAL).	UNLESS NOTED OTHERWISE, ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT. 2"
	HUB DRAIN	WHA	WATER HAMMER ARRESTER (	HANGERS AND SUPPORTS	SANITARY PIPING AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT.

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

WMB

WASHING MACHINE BOX

HOT WATER

# SPECIFICATIONS

HANGERS AND SUPPORTS

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

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

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

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.

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

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.

# SPECIFICATIONS

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, SANITARY P-TRAPS AND GREASE WASTE 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 WRAPPED IN 1" THICK PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION. INSTALLED IN EXTERIOR BLOCK WALLS, INTERSTITIAL SPACES SHALL BE FILLED WITH FOAM INSULATION.

I CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVANIZED STEEL, IS INSTALLED THROU HOLES OR NOTCHES IN STUDS, JOISTS, OR SIMILAR MEMBERS LESS THAN 11/2" 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 W THE MANUFACTURER'S LISTED DETAILS AND SPECIFICATIONS.

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

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

## SUBMITTALS

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

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 FO ANY COORDINATION OR ADDITIONAL COST BROUGHT ON BY THE USE OF THIS EQUIPMENT.

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GENERAL

	SPECIFICATIONS	SPECIFICATIONS
GREASE INTERCEPTOR CALCULATIONS (GI-1)	JILCIIICATIONJ	
CALCULATIONS BASED ON PLUMBING DRAINAGE INSTITUTE'S STANDARD PDI-GIOI, TABLE 8.3.2 "PROCEDURE FOR SIZING GREASE INTERCEPTORS" (REV. APR 2015)	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	WASTE AND VENT PIPING SYSTEMS AND ACCESSORIES SANITARY PIPING SHALL BE PVC SCHEDULE 40 SOLID WALL PIPE AND E SYSTEM.
18"     20"     18"     QTY=3     THREE COMPARTMENT SINK     18"x     20"x     18"x     =     19440 CU IN	PRESSURE PRIOR TO COMMENCING WORK.	PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND
TOTAL VOLUME (CU IN) I 9440 CU IN	ALL GAS PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE INTERNATIONAL FUEL GAS CODE AND NFPA 54.	CLASS OF 12454 PER ASTM D-1784 AND CONFORM WITH NATIONAL FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS CONFORMING TO ASTM D-1785 AND ASTM D-2665. INJECTION MOL
TOTAL VOLUME (GAL)       I 9440CU IN X (I GAL/23 I CU IN) = 84 GAL         TOTAL DRAINAGE VOLUME (75% FULL)       84 GAL       X 0.75 = 63 GAL	ABOVE GRADE GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL (ASTM A53/A53M). FITTINGS SHALL BE ASME BIG.3 MALLEABLE IRON OR ASTM A234/A234M WROUGHT STEEL WELDING TYPE. JOINTS SHALL BE THREADED OR WELDED TO ASME B31.1.	FITTINGS SHALL CONFORM TO ASTM D-2665. FABRICATED FITTINGS CONFORM TO ASTM F-1866. SOLVENT CEMENTS SHALL CONFORM T D-2564. PRIMER SHALL CONFORM TO ASTM F-656. BURIED PIPE SH CONFORM TO ASTM D-2321.
FLOWRATE (2 MINUTE DRAINAGE PERIOD)     63 GAL     / 2 MIN =     32 GPM	BELOW GRADE GAS PIPING SHALL BE FLEXIBLE POLYETHYLENE TUBING AND SHALL COMPLY WITH ASTM D25 I 3 AND CSA B I 37.4, AND SHALL BE INSTALLED IN ACCORDANCE WITH IFGC SECTION 402.11.2. PROVIDE MANUFACTURED RISER ASSEMBLY TO TRANSITION FROM TUBING TO ABOVEGROUND METALLIC PIPING.	WASTE AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH THE CODES. AT A MINIMUM, WASTE PIPING SHALL BE TESTED WITH AT LEA OF WATER HEAD PRESSURE APPLIED.
.5 GPM QTY= I HAND SINK PEAK FLOWRATE: .5 GPM	SHUTOFF VALVES SHALL BE PROVIDED AND LOCATED IN PLACES SO AS TO PROVIDE ACCESS FOR OPERATION AND SHALL BE INSTALLED SO AS TO BE PROTECTED FROM	ALL VENTS THROUGH ROOF SHALL BE LOCATED AT LEAST 10'-0" AWAY AIR INTAKE, EVAPORATIVE COOLER, OR ANY OTHER DEVICE THAT WOU FROM THE VENT. FLASH AROUND ALL PIPES PENETRATING THROUGH R
TOTAL PEAK FLOW 32.1 GPM	DAMAGE. ALL GAS FIRED APPLIANCES ARE PROVIDED WITH A GAS PRESSURE OF 7"W.C. AT	STANDARD MANUFACTURED FLASHINGS. FLASHING SHALL BE SHEET M RUBBER GASKETS AND SHALL EXTEND INTO ROOFING AND UP PIPE DIS ACCORDANCE WITH THE LOCAL CODE.
SELECT PDI SIZE '35': 35GPM, 70 LB CAPACITY GREASE INTECEPTOR	FINAL EQUIPMENT CONNECTION. IF 7"W.C. EXCEEDS EQUIPMENT'S SPECIFIC INLET PRESSURE REQUIREMENT, CONTRACTOR SHALL PROVIDE APPROPRIATE PRESSURE REGULATING VALVE.	NO DOUBLE COMBINATION FITTINGS MAY BE UTILIZED IN THE HORIZON
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	GAS PIPING ON ROOF SURFACES SHALL BE ELEVATED NO LESS THAN 31/2" INCHES ABOVE ROOF SURFACE AND SHALL BE CLAMPED TO RUBBER CHANNEL SUPPORTS (MIFAB C10 SERIES OR EQUAL). PROVIDE SUPPORT AT EVERY ELBOW. THE	WHERE TWO HORIZONTAL PIPES (BACK-TO-BACK WATER CLOSETS OR SANITARY BRANCHES) COMBINE IN THE VERTICAL, A DOUBLE COMBIN EIGHTH BEND FITTING SHALL BE INSTALLED. DOUBLE SANITARY TEE O CROSS IS NOT ACCEPTABLE.
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).	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).	WHERE DRAWINGS REQUIRE CONNECTION TO EXISTING SANITARY SEWI BUILDING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD DETERM LOCATION, DEPTH AND DIRECTION OF FLOW PRIOR TO COMMENCING V
	ALL EXTERIOR GAS PIPING ON ROOF SHALL BE PRIMED AND PAINTED O.S.H.A. YELLOW. GAS PIPING RUNNING ON EXTERIOR WALLS SHALL BE PRIMED AND PAINTED TO MATCH BUILDING WALL.	CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER IF THERE IS A POTEN MAINTAINING PROPER SLOPE IN CONNECTING TO EXISTING, OR IF THER DIRECT CONNECTION POSSIBLE. CONTRACTOR SHALL CONFIRM THAT EXISTING PIPING TO BE REUSED IS CLEAN, FREE OF DEFECTS, ADEQUA
	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 LABELED PER OSHA RECOMMENDED ANSI/ASME GUIDELINE A I 3.1 WHICH INDICATES THAT LABELS BE INSTALLED AT ALL CHANGES IN	(1/8"/FT MINIMUM) AND THAT THERE ARE NO DIPS THAT COULD HOLD A PROVIDE CAMERA SCOPING TO DOCUMENT THIS INFORMATION. CON SHALL ALERT ARCHITECT/ENGINEER OF ANY DEFICIENCIES. DOMESTIC WATER SYSTEMS AND ACCESSORIES
	DIRECTION, ON BOTH SIDES OF ENTRY POINTS THROUGH FLOORS AND WALLS, NEXT TO ALL VALVES AND FLANGES, AND AT 25FT INTERVALS ON STRAIGHT RUNS.	WATER PIPING ABOVE SLAB: TYPE 'L' HARD DRAWN COPPER TUBING, A WROUGHT SOLDER JOINTS, ANSI BI 6.22.
	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.	WATER PIPING BELOW SLAB: TYPE 'K' SOFT DRAWN COPPER TUBING, W JOINTS BELOW SLAB, ASTM B88.
	PRESSURE REGULATOR VALVE: SINGLE STAGE AND SUITABLE FOR NATURAL GAS, STEEL JACKET AND CORROSION RESISTANT COMPONENTS, THREADED FOR	ALL DOMESTIC HOT WATER PIPING SHALL HAVE A MINIMUM PRESSURE 100PSI AT 180°F.
	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	DOMESTIC WATER PIPING SHALL BE TESTED IN ACCORDANCE WITH ALL CODES. PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DIS PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACC WITH IPC GIO.I AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPA STANDARDS.
	SCREEN PROTECTOR (REGULATOR EQUIPPED WITH FACTORY PROVIDED VENT LIMITER IS ACCEPTABLE WHERE APPROVED BY THE LOCAL JURISDICTION). SHUTOFF VALVES SHALL BE PROVIDED IN ACCORDANCE WITH IFGC 409. INSTALL	BALL VALVES SHALL BE TWO-PIECE BRONZE BODY, LARGE PORT WITH SMOOTH BORE CHROME PLATED BRASS BALL. SEATS SHALL BE REIN WITH TEFLON PACKING RING AND THREADED ADJUSTABLE PACKING NU STEM EXTENSION AS NEEDED TO PROVIDE HANDLE ON OUTSIDE OF PI
	MANUAL GAS SHUTOFF VALVE FOR EACH GAS APPLIANCE AHEAD OF CORRUGATED STAINLESS STEEL TUBING OR COPPER CONNECTOR. SHUTOFF SHALL BE WITHIN G' OF APPLIANCE.	INSULATION. VALVES SHALL BE APOLLO 70 OR EQUAL. BACKFLOW PREVENTERS SHALL BE INSTALLED IN ACCESSIBLE LOCATIO EASE OF TESTING AND SERVICING. FOR BACKFLOW PREVENTERS WITH
	INSTALL UNIONS IN PIPES NPS 2 AND SMALLER, ADJACENT TO EACH VALVE, AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. ALL GAS PIPING INSTALLED BENEATH THE BUILDING SLAB SHALL BE ENCASED IN	CONNECTIONS, ROUTE VENT LINE TO NEAREST DRAIN AND DISCHARGE GAP. BACKFLOW PREVENTERS SHALL BE TESTED IN ACCORDANCE WIT 312.10.2. CONTRACTOR SHALL PROVIDE CERTIFICATIONS THAT STAT HAVE BEEN TESTED AND APPROVED.
	WROUGHT IRON CONDUIT. PIPING SHALL BE PROTECTED AND INSTALLED ACCORDING TO THE INTERNATIONAL FUEL GAS CODE SECTION 404.14. TANK TYPE WATER HEATERS	THERMOMETERS SHALL BE 9" ADJUSTABLE ANGLE, 30°-180°F RANGE ( OR EQUAL). PRESSURE GAUGES SHALL BE 41/2" DIAL SIZE, 0-160PSI 600CB OR EQUAL).
	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.	CONTRACTOR SHALL FIELD VERIFY INCOMING DOMESTIC WATER PRESS CONFIRM ADEQUATE PRESSURE TO SERVE THE DOMESTIC WATER SYS CONTRACTOR SHALL ALERT ENGINEER TO A POTENTIAL LOW PRESSURE
	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 I 20° UNLESS OTHERWISE NOTED. WATER HEATERS SHALL BE INSTALLED ON SUSPENDED PLATFORM, STEEL STAND OR CONCRETE PAD, AS INDICATED ON DRAWINGS.	WHERE PRESSURE EXCEEDS 80PSI, PROVIDE PRESSURE REGULATING V (WATTS LF223) AND UPSTREAM STRAINER (WATTS LSF777). CONTRACTOR SHALL FIELD COORDINATE LOCATION OF ACCESSIBLE IS VALVES ON DOMESTIC HOT & COLD WATER SUPPLIES TO FIXTURES OR
	WATER HEATERS SHALL HAVE A MINIMUM 3 YEAR LIMITED WARRANTY.	FIXTURES SUCH THAT THEY MAY BE SHUT OFF FOR SERVICING. SERV HOSE BIBB VALVES SHALL BE IDENTIFIED. ALL OTHER VALVES INSTALL LOCATIONS THAT ARE NOT ADJACENT TO THE FIXTURE(S) SHALL BE IDE
	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.	INDICATING THE FIXTURE(S) SERVED.
	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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## TANK TYPE WATER HEATERS

# SPECIFICATIONS

LL	PIPE	AND	DWV	FITTING	



865.409.5755

PROJECT # 222165

STUDIO DESIGN **ARCHITECTURE & INTERIORS** 

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**Project Phase: Construction Documents** 

Rev	risions	
No.	Descripton	Date
1	Revision 1	02.14.2023

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Job Number: GENERAL

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PLUMBING FIXTURE SCHEDULE           MARK         DESCRIPTION         WASTE RUNDUT         WASTE CONN.         VENT         WASTE RUNDUT         WASTE RUNDUT         WASTE RUNDUT         WASTE CONN.           WC 1         WATER CLOSET FINIC (MS 2         4         3*         2*         1.2*         1.1         1.12*         1.1           WC 1         WATER CLOSET FINIC (MS 2         4         3*         2*         1.2*         1.1         1.12*         1.1           WC 1         WATER CLOSET FINIC (MS 2         4         3*         2*         1.1*         1.12*         1.1           WC 1         WATER CLOSET FINIC (MS 2         4         3*         2*         1.1*         1.12*         2*         1.1*         1.12*         2*         1.1*         1.12*         2*         1.1*         1.1*         3*3         2*         1.1*         1.1*         1**									
MARK         DESCRIPTION         WASTE RUNOUT         CON         PENT         CN         HW         CW         HW           WC-1         WATER CLOSET - TAINE TYPE         41         33         22         1/21          1/22            UR-1         USINAL - HIGH EFFICIENCY, WALL MOUNTER/WHIDH WAY VS         21         21         22         21         11          344            SN-1         SNK (ADA)         21         1/22         22         1/21         1/22         369         3697           SN-2         SNK (ADA)         21         1/22         21         1/22         1/22         3697         3697           SN-2         SNK (ADA)         21         1/27         22         1/27         1/22         3697         3697           SN-2         SNK (ADA)         21         1/22         21         1/27         1/27         3697         3697           SN-2         SNK (ADA)         21         1/27         22         1/27         1/27         3697         3697           SN-2         SNK (ADA)         32         37         21         1/27         1/2         1/2         1/2         1/2	PLUN	IBING FIXTURE SC	HEDULE	:					
MMM         LUSUR/TION         FUNOUT         CONIN         CL         CW         HW         CW         HW           WG1         WA TR GLOBER - TANK DIPE         AP         32         22         1/2 </th <th></th> <th></th> <th>WASTF</th> <th>WASTE</th> <th></th> <th>WATER</th> <th>RUNOUT</th> <th>WATER</th> <th></th>			WASTF	WASTE		WATER	RUNOUT	WATER	
I.R. I.         URINAL - HIGH EFFICIENCY, WALL         2 <sup>11</sup> 2 <sup>11</sup> 2 <sup>11</sup> 2 <sup>11</sup> 2 <sup>11</sup> 1 <sup>11</sup> 8.4 <sup>11</sup> 91-1         SINK (ADA)         2 <sup>11</sup> 1         1/2 <sup>2</sup> 1         1/2 <sup>2</sup> 1/2 <sup>11</sup> 1/2 <sup>11</sup> 3/2 <sup>11</sup> 1/2 <sup>11</sup> 1/2 <sup>11</sup> 3/2 <sup>11</sup> 1/2 <sup>11</sup>	MARK	DESCRIPTION			VENT	CW	HW	CW	HW
UK-1         MOUNTED W/FLUSH VALVE         2         2         2         1	WC-1	WATER CLOSET - TANK TYPE	4"	3"	2"	/2"		1/2"	
Image: Sink (ADA)       2'       I       1/2'       2''       I/2'       1/2'       1/2''       3/8'       3/8''         WHA-X       WATER HAMMER ARRESTOR          980 plan        980 plan         980 plan         1.1/2''       2''       1.1/2''       2''	UR-1		2"	2"	2"	1.1		3/4"	
VITALX         WATER HAMMER ARRESTOR             see plan          see plan            see plan             see plan             see plan              see plan <t< td=""><td>SK-1</td><td>SINK (ADA)</td><td>2"</td><td>   /2"</td><td>2"</td><td>1/2"</td><td>1/2"</td><td>3/8"</td><td>3/8"</td></t<>	SK-1	SINK (ADA)	2"	/2"	2"	1/2"	1/2"	3/8"	3/8"
PT-1         PLASTER TRAP         2'         1         1/2"         2"   1/2"         1/2"            1/2"         1/2"           1/2"         1/2"         1/2"	SK-2	SINK (ADA)	2"	/2"	2"	/2"	1/2"	3/8"	3/8"
FD-1       FLOOR DRAIN - KITCHEN       3"       3"       2"  <	WHA-X	WATER HAMMER ARRESTOR				see plan		see plan	
Image: marked for the see plan         Imarked for the see plan         Image: marked	PT-1	PLASTER TRAP	2"	/2"	2"				
F5-1       FLOOR SINK       3"       3"       3"       2"   1/2"       1/2"          1/2"       1/2"          1/2"       1/2"          1/2"       1/2"         1/2"       1/2"         1/2"       1/2"         1/2"       1/2"         1/2"       1/2"         1/2"       1/2"       1/2"        1/2"       1/2"       1/2"       1/2"	FD-1	FLOOR DRAIN - KITCHEN	3"	3"	2"				
FCO       FLOOR CLEANOUT       see plan       see plan   1/2"          1/2"       1/2"          1/2"       1/2"          1/2"       1/2"         1/2"       1/2"         1/2"       1/2"         1/2"       1/2"         3/4"         3/4"         1/2"       1/2"       1/2"       1/2"       1/2"       1/2"       1/2"       1/2"       1/2"       1/2"	HD-1	HUB DRAIN	see plan	see plan					
MV-1       MIXING VALVE (POINT OF USE)         1/2"       1/2"       3/8"       3/8"         BFP-1       BACKFLOW PREVENTER         1/2"        1/2"        1/2"          ET-1       POTABLE WATER EXPANSION TANK         3/4"        3/4"          PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VEN         MARK       TANK CAPACITY       RECOVERY         WH-1       50 GAL       54 GPH @ 30° RISE       PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VEN	FS-1	FLOOR SINK	3"	3"	2"				
BFP-1       BACKFLOW PREVENTER         1/2"        1/2"          ET-1       POTABLE WATER EXPANSION TANK         3/4"        3/4"          PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VER       ELECTRIC WATER HEATER SCHEDULE       MARK       TANK CAPACITY       RECOVERY         WH-1       50 GAL       54 GPH @ 90° RISE       PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VER	FCO	FLOOR CLEANOUT	see plan	see plan					
ET-1       POTABLE WATER EXPANSION TANK         3/4"        3/4"          PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VE         ELECTRIC WATER HEATER SCHEDULE         MARK       TANK CAPACITY       RECOVERY         WH-1       50 GAL       54 GPH @ 90° RISE         PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERI	MV- 1	MIXING VALVE (POINT OF USE)				1/2"	1/2"	3/8"	3/8'
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VE         ELECTRIC WATER HEATER SCHEDULE         MARK       TANK CAPACITY       RECOVERY         WH-1       50 GAL       54 GPH @ 90° RISE         PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFICATION SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFICATION	BFP-1	BACKFLOW PREVENTER				/2"		1/2"	
ELECTRIC WATER HEATER SCHEDULE         MARK       TANK CAPACITY       RECOVERY         WH-1       50 GAL       54 GPH @ 90° RISE         PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIF	ET-1	POTABLE WATER EXPANSION TAN							
MARK       TANK CAPACITY       RECOVERY         WH-1       50 GAL       54 GPH @ 90° RISE         PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIOR		E							
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY			MARK		TANK C	APACITY	R	ECOVER	Y
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIF									
		1		IITTAL OR PI	JRCHASE,	THE PLUMBI	ING CONTR	RACTOR SHA	ALL VERIF
		MA	RK	HEAT	TING			N g	Betpoi
MARK HEATING ACTIVATION SETPO			1_ 1	56° RISE (	D 5 GPM		35 GPM		
			UBMITTAL OR P					ALL VERIFY	

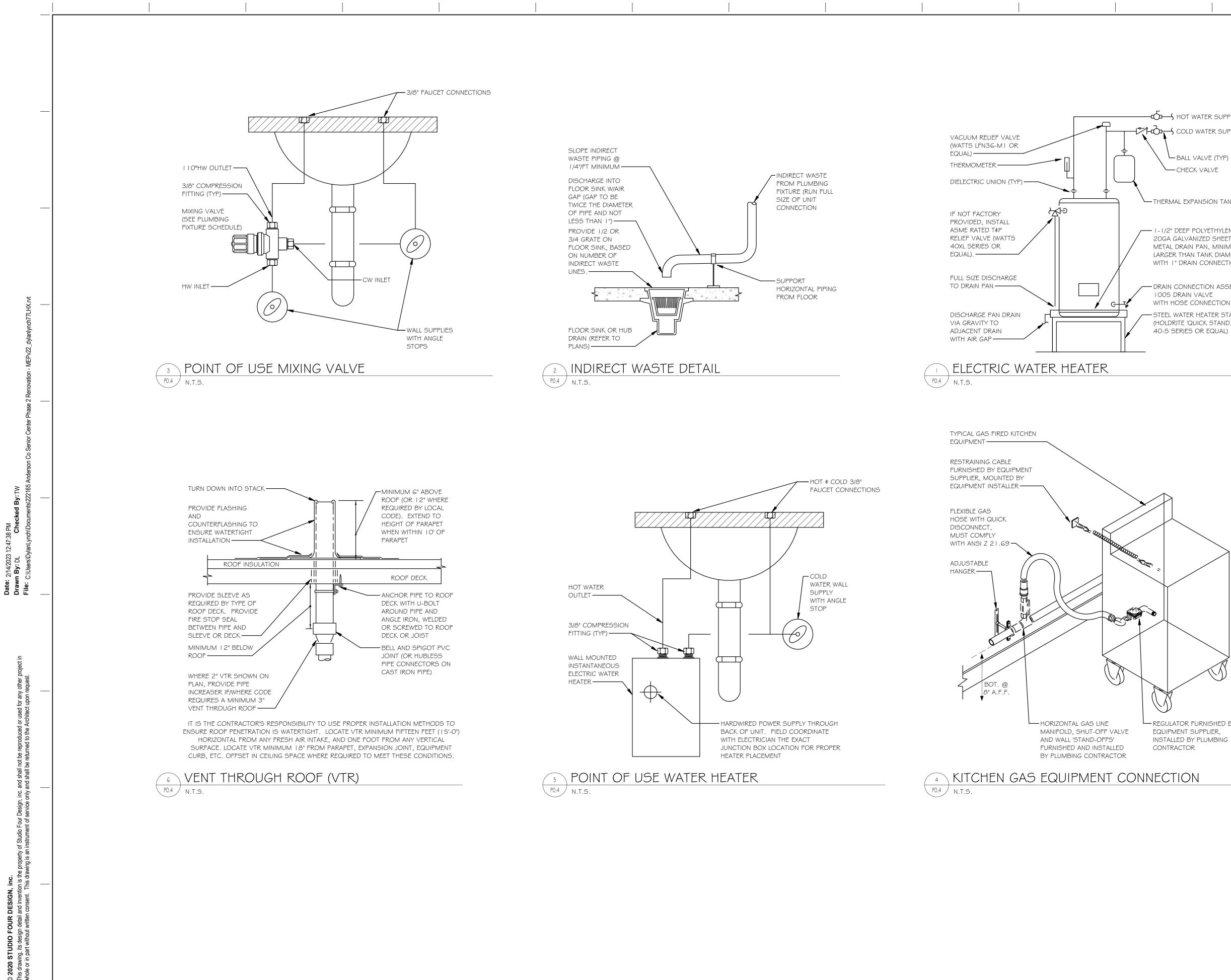
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FIXTURE SCH	EDULE									STUDIO
	WASTE	WASTE		WATER R	UNOUT	WATER	CONN.			FOIR
DESCRIPTION	RUNOUT	CONN.	VENT	CW	HW	CW	HW	SPECIFICATION		
DSET - TANK TYPE	4"	3"	2"	1/2"		1/2"		LOOR MOUNTED, TANK TYPE WATER CLOSET (AMERICAN STANDARD "CADET PRO," 215CA.104 28 GPF, WHITE VITREOUS CHINA, GRAVITY FED FLUSH ACTION. TOP OF RIM AT 15" AFF. HIG FFICIENCY 'WATERSENSE' LISTED. PROVIDE HEAVY DUTY OPEN FRONT SEAT, LESS COVER, WITH ELF-SUSTAINING CHECK HINGE (BEMIS 1055SSC). CHROME PLATED BRASS ANGLE SUPPLY TOP WITH 12" LONG X 3/8" FLEX SUPPLY (MCGUIRE M166).	, 4110 Sutherland Avenue H Knoxville, Tennessee 37919	- DESIGN
GH EFFICIENCY, WALL W/FLUSH VALVE	2"	2"	2"	1"		3/4"		ALL MOUNTED, FLUSH VALVE URINAL (AMERICAN STANDARD "WASHBROOK," 6590.001), 0.5 PF, WHITE VITREOUS CHINA. HIGH EFFICIENCY 'WATERSENSE' LISTED. PROVIDE ZURN 1222 UPPORT SYSTEM. COORDINATE MOUNTING HEIGHT(S) AND ADA DESIGNATIONS WITH RCHITECTURAL DRAWINGS. PROVIDE CHROME PLATED URINAL FLUSHOMETER, 0.5 GPF MERICAN STANDARD "FLOWISE" 6045.051.002).		414 Clinch Ave. Knoxville, TN 37902 p 865 523-5001 f 865 523-5003 studiofourdesign.com
	2"	/2"	2"	1/2"	/2"	3/8"	3/8"	TAINLESS STEEL SINGLE BOWL SINK (ELKAY LRAD   5   7), 2 HOLES, WITH GOOSENECK FAUCET DELTA 2   7   LF-WBHHDF). BOWL DIMENSIONS:   2" L,   2" W, 5" D. CHROME PLATED BRASS NGLE SUPPLY STOPS,   2" LONG X 3/8" FLEX SUPPLIES. BASKET STRAINER (ZURN Z874   -SS). ROVIDE MIXING VALVE TO TEMPER HOT WATER TO     0 DEGREES (LAWLER 'TMM', ASSE   070, EAD FREE).		
	2"	/2"	2"	1/2"	1/2"	3/8"	3/8"	TAINLESS STEEL SINGLE BOWL SINK (ELKAY LRAD   5   7), 2 HOLES, WITH GOOSENECK FAUCET DELTA 2   7   LF-WBHHDF). PROVIDE 0.5 GPM AERATOR. BOWL DIMENSIONS:   2" L,   2" W, 5" E HROME PLATED BRASS ANGLE SUPPLY STOPS,   2" LONG X 3/8" FLEX SUPPLIES. BASKET TRAINER (ZURN Z874   -SS).	-	
IMER ARRESTOR				see plan		see plan		'ATER HAMMER ARRESTOR, ASSE 1010 (J.R. SMITH SERIES 5005-5050), 'X' IN 'WHA-X' REFERS O PDI SIZE INDICATED ON DRAWINGS.		
RAP	2"	/2"	2"					LECO GT-64 INLINE TRAP SYSTEM. CONNECT TRAP OUTLET INTO SANITARY WASTE IN WALL AT ECOMMENDED 17" ABOVE FINISHED FLOOR.		
AIN - KITCHEN	3"	3"	2"					TCHEN AREA DRAIN (J.R. SMITH #2005) WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD " ROUND NICKEL BRONZE STRAINER. PROVIDE SQUARE STRAINER FOR TILE APPLICATIONS. ROVIDE ASSE 1072 TRAP SEALER (ZURN Z1072).	¢	
	see plan	see plan						IOUX CHIEF 832 SERIES ADJUSTABLE HUB DRAIN FIXTURE, PROVIDE STAINLESS STEEL MESH EBRIS BASKET.		
K	3"	3"	2"					AST IRON FLOOR SINK WITH ACID RESISTANT COATED INTERIOR AND BOTTOM DOME STRAINEI .R. SMITH 3140), 6" DEEP. COORDINATE 1/2 OR 3/4 GRATE WITH INDIRECT WASTE PIPING.		County ter 37716
ANOUT	see plan	see plan						LOOR CLEANOUT WITH CAST IRON BODY AND ADJUSTABLE NICKEL BRONZE TOP (J.R. SMITH 031). CLEANOUT SIZE SHALL MATCH LINE SIZE.		
VE (POINT OF USE)				1/2"	1/2"	3/8"	3/8"	DINT-OF-USE THERMOSTATIC MIXING VALVE (LEONARD #170-LF) WITH INTEGRAL INLET CHECK ALVES, TEMPERATURE ADJUSTMENT KNOB WITH LOCK SCREW, LEAD FREE. ASSE STANDARD 070. MINIMUM FLOW 0.25 GPM, 5 PSI DROP @ 1.7 GPM.		<b>rSON</b> or Ce enness
PREVENTER				1/2"		1/2"		ACKFLOW PREVENTER WITH DUAL CHECK VALVES, ATMOSPHERIC VENT AND INTEGRAL STRAINE EAD FREE. FOR 3/8" EQUIPMENT CONNECTIONS, PROVIDE WATTS SD-3 (ASSE 1022). FOR 1, R GREATER CONNECTION, PROVIDE WATTS LF009-QT (ASSE 1013).		Anderson Senior Ce 96 Mariner Point Clinton, Tenness
ATER EXPANSION TANK				3/4"		3/4"		EAD-FREE POTABLE WATER EXPANSION TANK (WATTS PLT-5). 2.1 GALLONS TOTAL VOLUME, O. ALLONS MAXIMUM ACCEPTANCE VOLUME. TANK SHALL BE PRE-CHARGED TO THE SYSTEM RESSURE PRIOR TO INSTALLATION (CONTRACTOR TO FIELD-VERIFY).	3	
P	RIOR TO SUI	L BMITTAL OR	PURCHAS	E, THE PLUM	IBING CON	TRACTOR S	HALL VERI	FIXTURE SPECIFICATIONS WITH ARCHITECT/OWNER		
ELE		: WATE	ER HE	ATER S	5CHE	DULE				- WAS WAS WAS A SHUT ON STERED ENGINE
										122987 - SUIT
	MARK	-	TANK C	APACITY	RE	COVERY	•	SETPOINT ELECTRICAL BASIS TYPE		
	WH-1		50	GAL	54 GP	H @ 90° RI	6E	140° 12.0 KW A.O. SMITH DEN-52 TALL		
PRIC	R TO SUBM	ITTAL OR PL						E APPROPRIATE ELECTRICAL CHARACTERISTICS OF THE SELECTED WATER HEATER. COORDINATE HE POWER PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS.		Project Phase: Construction Documents
				···· vviiii iii						Issue Date: 02/03/23 Revisions
INSTANT	ANEOl	JS WA	TER I	HEATER	r SCI	1EDUL	E			RevisionsNo.DescriptonDate1Revision 102.14.2023
MARK		HEAT	ING		VATION		ETPOIN	ELECTRICAL INPUT BASIS NOTES		
IWH-1		56° RISE @	) 0.5GPM	.3	5 GPM		110°F	4.1 KW     CHRONOMITE M-20L / 208     MICROPROCESSOR CONTROLLED TEMPERATURE SETPOINT		
PRIOR TO SUBI	/ IITTAL OR P	URCHASE, 1						IATE ELECTRICAL CHARACTERISTICS OF THE SELECTED WATER HEATER. COORDINATE DIRECTLY PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS.		
			VVIIIII	TIL LLLCINIC		ACTOR AND	) IIIL I OW	TANLE SCHEDDLES ON THE LEECTNICAL DRAWINGS.		
										Job Number: 2003
										SCHEDULES
										SCHEDOLLS

50	CHEDULE													STUDIO
	WASTE	WASTE	VENT	WATER	RUNOUT	WATER	CONN.		GRECI		1			FOIR
	RUNOUT	CONN.	VLINI	CW	HW	CW	HW		JILCI	FICATION	l		PROFICIENT E N G I N E E R I N G	DESIGN
Έ	4"	3"	2"	1/2"		1/2"		I .28 GPF, WHITE VITRE EFFICIENCY 'WATERSENS SELF-SUSTAINING CHEC	K TYPE WATER CLOSET ( COUS CHINA, GRAVITY F SE' LISTED. PROVIDE HI CK HINGE (BEMIS 10555 ( 3/8" FLEX SUPPLY (MCC	ED FLUSH AG AVY DUTY ( SSC). CHRC	CTION. TOP OF PPEN FRONT SEA ME PLATED BRA	RIM AT 15" AFF. HIGH AT, LESS COVER, WITH	4110 Sutherland Avenue Knoxville, Tennessee 37919 865.409.5755 PROJECT # 222165	ARCHITECTURE & INTERIORS
WALL	- 2"	2"	2"	1"		3/4"		GPF, WHITE VITREOUS ( SUPPORT SYSTEM. CC ARCHITECTURAL DRAWI	1 VALVE URINAL (AMERIC CHINA. HIGH EFFICIENC OORDINATE MOUNTING H NGS. PROVIDE CHROM "FLOWISE" 6045.051.C	Y 'WATERSEI IEIGHT(S) AN E PLATED UR	ISE' LISTED. PRI D ADA DESIGNA	OVIDE ZURN 1222 TIONS WITH		414 Clinch Ave. Knoxville, TN 37902 p 865 523-5001 f 865 523-5003 studiofourdesign.com
	2"	/2"	2"	1/2"	1/2"	3/8"	3/8"	(DELTA 2171LF-WBHHD ANGLE SUPPLY STOPS,	LE BOWL SINK (ELKAY LE DF). BOWL DIMENSIONS I 2" LONG X 3/8" FLEX S TO TEMPER HOT WATE	: 12" L, 12" UPPLIES. B	W, 5" D. CHRO ASKET STRAINER	ME PLATED BRASS 2 (ZURN Z8741-SS).		
	2"	/2"	2"	1/2"	/2"	3/8"	3/8"	(DELTA 2171LF-WBHHD	LE BOWL SINK (ELKAY LE DF). PROVIDE 0.5 GPM S ANGLE SUPPLY STOPS I -SS).	AERATOR. B	OWL DIMENSION	IS:   2" L,   2" W, 5" D.		
R				see plan		see plan		WATER HAMMER ARRES TO PDI SIZE INDICATED	STOR, ASSE 1010 (J.R. ON DRAWINGS.	SMITH SERII	5 5005-5050)	, 'X' IN 'WHA-X' REFERS		
	2"	/2"	2"					GLECO GT-64 INLINE TR RECOMMENDED 17" AE	RAP SYSTEM. CONNECT BOVE FINISHED FLOOR.	TRAP OUTLI	ET INTO SANITAR	XY WASTE IN WALL AT		
	3"	3"	2"					7" ROUND NICKEL BRON	I.R. SMITH #2005) WITH NZE STRAINER. PROVID RAP SEALER (ZURN Z10	E SQUARE S		ABLE STRAINER HEAD & LE APPLICATIONS.		
	see plan	see plan							ES ADJUSTABLE HUB DR	•	, PROVIDE STAII	NLESS STEEL MESH		t
	3"	3"	2"						<pre>&lt; WITH ACID RESISTANT DEEP. COORDINATE 1/2</pre>					ount e 87716
	see plan	see plan							1 CAST IRON BODY AND E SHALL MATCH LINE SIZ		E NICKEL BRONZ	ZE TOP (J.R. SMITH		Briv C
ISE)				1/2"	1/2"	3/8"		POINT-OF-USE THERMC VALVES, TEMPERATURE	OSTATIC MIXING VALVE ( ADJUSTMENT KNOB WI	EONARD # I TH LOCK SC	REW, LEAD FREE			Son Co r Cente Point Drive
				1/2"		1/2"		BACKFLOW PREVENTER LEAD FREE. FOR 3/8" E		/ES, ATMOS IS, PROVIDE	PHERIC VENT AN WATTS SD-3 (	ND INTEGRAL STRAINER, ASSE 1022). FOR 1/2"	_	nder enio Mariner nton, Te
DN TAI	NK			3/4"		3/4"		LEAD-FREE POTABLE WA	ATER EXPANSION TANK ( CCEPTANCE VOLUME. TA ISTALLATION (CONTRAC	WATTS PLT-	5). 2.1 GALLON E PRE-CHARGED			<b>≺ ທ</b> % ວັ
Į	ELECTRIC								DNS WITH ARCHITECT/OV					MAS WAS VU STERED ENG COLLEGE
	MARK		TANK C	APACITY	r Re	COVERY	,	SETPOINT	ELECTRICAL	E	ASIS	TYPE		and the second sec
	WH-1		50	GAL	54 GP	H @ 90° RIS	θE	140°	12.0 KW	A.O. 51	/ITH DEN-52	TALL	_	
	PRIOR TO SUBM	ITTAL OR PI	•						RICAL CHARACTERISTIC: 1EDULES ON THE ELECTE			HEATER. COORDINATE		Project Phase: Construction Documents
TA	NTANEOL	JS WA	ATER I	IEATE	R SCI	1EDUL	E							Issue Date: 02/03/23RevisionsNo. DescriptonDate1Revision 102.14.2023
M	ARK	HEAT	ΓING		IVATION =LOW	۱ s	etpoin <sup>-</sup>	ELECTRICAL	INPUT BAS	615	١	NOTES		
IW	(H-1	56° RISE @	@ 0.5GPM	.:	35 GPM		110°F	4.1 KW	, CHRONOMI 20			ESSOR CONTROLLED ATURE SETPOINT		
R TO	SUBMITTAL OR P	URCHASE,							RACTERISTICS OF THE S		L TER HEATER. C	OORDINATE DIRECTLY		
														Job Number: 20033
														SCHEDULES
														<b>P0.3</b>

SCRIPTIONWASTE RUNOUT- TANK TYPE4"EFFICIENCY, WALL USH VALVE2"2"2"2"2"R ARRESTOR2"3"		VENT     CM       2"     1/2       2"     1       2"     1/2       2"     1/2       2"     1/2	2" '	CW I/2" 3/4"	EFI SE ST GP SL AR	28 GPF, WHITE VITREOUS CHINA, ( FICIENCY 'WATERSENSE' LISTED. PL F-SUSTAINING CHECK HINGE (BEN OP WITH 12" LONG X 3/8" FLEX SU LL MOUNTED, FLUSH VALVE URINA F, WHITE VITREOUS CHINA. HIGH	· · · · ·	DF RIM AT 15" AFF. HIGH BEAT, LESS COVER, WITH RASS ANGLE SUPPLY	PROFICIENT E N G I N E E R I N G 4110 Sutherland Avenue Knoxville, Tennessee 37919 865.409.5755 PROJECT # 222165	- FOUR DESIGNÉ ARCHITECTURE & INTERIORS
EFFICIENCY, WALL 2" 2" 2" R ARRESTOR 2"	2"	2"   2"  /2	·		EFI SE ST GP SL AR	28 GPF, WHITE VITREOUS CHINA, ( FICIENCY 'WATERSENSE' LISTED. PL F-SUSTAINING CHECK HINGE (BEN OP WITH 12" LONG X 3/8" FLEX SU LL MOUNTED, FLUSH VALVE URINA F, WHITE VITREOUS CHINA. HIGH	GRAVITY FED FLUSH ACTION. TOP C ROVIDE HEAVY DUTY OPEN FRONT S MIS 1055SSC). CHROME PLATED B PPLY (MCGUIRE M166).	DF RIM AT 15" AFF. HIGH BEAT, LESS COVER, WITH RASS ANGLE SUPPLY	Knoxville, Tennessee 37919 865.409.5755	
2" 2" 2" 2" R ARRESTOR 2"	/2"	2"  /2		3/4"	GP SU AR	VALL MOUNTED, FLUSH VALVE URINAL (AMERICAN STANDARD "WASHBROOK," 6590.001), 0.5 GPF, WHITE VITREOUS CHINA. HIGH EFFICIENCY 'WATERSENSE' LISTED. PROVIDE ZURN 1222 SUPPORT SYSTEM. COORDINATE MOUNTING HEIGHT(S) AND ADA DESIGNATIONS WITH ARCHITECTURAL DRAWINGS. PROVIDE CHROME PLATED URINAL FLUSHOMETER, 0.5 GPF				
2" R ARRESTOR 2"	/2"		2"  /2"			CHITECTURAL DRAWINGS. PROVID /IERICAN STANDARD "FLOWISE" 60	EFFICIENCY 'WATERSENSE' LISTED. DUNTING HEIGHT(S) AND ADA DESIG DE CHROME PLATED URINAL FLUSHC	PROVIDE ZURN 1222 NATIONS WITH		•
R ARRESTOR 2"		2"  /2		3/8"	(DE 3/8" AN PR	ELTA 2171LF-WBHHDF). BOWL DIN GLE SUPPLY STOPS, 12" LONG X 3	. (ELKAY LRAD   5   7), 2 HOLES, WITH MENSIONS:   2" L,   2" W, 5" D. CH /8" FLEX SUPPLIES. BASKET STRAIN IOT WATER TO     0 DEGREES (LAWI	ROME PLATED BRASS NER (ZURN Z8741-SS).		
2"			2"  /2"	3/8"	3/8" (DE CH	LTA 2171LF-WBHHDF). PROVIDE	. (ELKAY LRAD   5   7), 2 HOLES, WITI 0.5 GPM AERATOR. BOWL DIMENS PLY STOPS,   2" LONG X 3/8" FLEX S	IONS:   2" L,   2" W, 5" D.		
		see	plan	see plan		TER HAMMER ARRESTOR, ASSE I PDI SIZE INDICATED ON DRAWING	010 (J.R. SMITH SERIES 5005-505 5.	50), 'X' IN 'WHA-X' REFERS		
KITCHEN 3"	/2"	2"			RE	COMMENDED 17" ABOVE FINISHEE				
	3"	2"			7" PR	ROUND NICKEL BRONZE STRAINER OVIDE ASSE 1072 TRAP SEALER (2	205) WITH FLASHING COLLAR, ADJL . PROVIDE SQUARE STRAINER FOR ZURN Z1072). LE HUB DRAIN FIXTURE, PROVIDE S <sup>-</sup>	TILE APPLICATIONS.		
see plan	see plan				DE	BRIS BASKET.			_	county ter <sup>a</sup> 37716
3"	3"	2"			(J.I	R. SMITH 3140), 6" DEEP. COORE	ESISTANT COATED INTERIOR AND E	RECT WASTE PIPING.		Cou Shree Drive ee 3771
UT see plan	see plan				4C	31). CLEANOUT SIZE SHALL MATC				on ( Cen oint Dr ressee
POINT OF USE)		/2	2"  /2"	3/8"	3/8" VA		G VALVE (LEONARD #170-LF) WITH KNOB WITH LOCK SCREW, LEAD FR PSI DROP @ 1.7 GPM.			S C C E
VENTER		/;	D"	/2"	LEA		HECK VALVES, ATMOSPHERIC VENT INNECTIONS, PROVIDE WATTS SD- WATTS LF009-QT (ASSE 1013).	-		nde Marir nton,
R EXPANSION TANK		3/2	t"	3/4"	GA		ON TANK (WATTS PLT-5). 2.1 GALL DLUME. TANK SHALL BE PRE-CHARG CONTRACTOR TO FIELD-VERIFY).	-		<u>ح ب</u> % <u>ب</u>
ELECTRIC	C WATE		R SCHEI			ETPOINT		TYPE		- WAS WAS WAS CONTRACT OF TENNIS
				COVERI						
WH-1		50 GAL		1 @ 90° RISE					_	Project Phase: Construction Documents
	III I AL OR FUR	•				E POWER PANEL SCHEDULES ON T	CTERISTICS OF THE SELECTED WATE HE ELECTRICAL DRAWINGS.	R FILATER. COORDINATE		Issue Date: 02/03/23
INSTANTANEO	US WA	TER HEA	TER SCH	IEDULE						RevisionsNo.DescriptonDate1Revision 102.14.2023
MARK	HEATI	NG <sup>/</sup>	ACTIVATION FLOW	SE	<b>TPOINT</b>	ELECTRICAL INPUT	BASIS	NOTES		
IWH-1	56° RISE @	0.5GPM	.35 GPM		1 1 0°F	4.1 KW		DCESSOR CONTROLLED ERATURE SETPOINT		
PRIOR TO SUBMITTAL OR F	PURCHASE, TH					TE ELECTRICAL CHARACTERISTICS PANEL SCHEDULES ON THE ELECTR	OF THE SELECTED WATER HEATER. ICAL DRAWINGS.	COORDINATE DIRECTLY		



**KITCHEN GAS EQUIPMENT CONNECTION** 

COLD WATER SUPPLY

> BALL VALVE (TYP) CHECK VALVE

- THERMAL EXPANSION TANK

20GA GALVANIZED SHEET METAL DRAIN PAN, MINIMUM 2" LARGER THAN TANK DIAMETER, WITH I " DRAIN CONNECTION

- DRAIN CONNECTION ASSE 1005 DRAIN VALVE WITH HOSE CONNECTION (HOLDRITE 'QUICK STAND,'



REGULATOR FURNISHED BY EQUIPMENT SUPPLIER, INSTALLED BY PLUMBING





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County 16 entei Drive 37 Anderson Point  $\mathbf{O}$ Senior 96 Mariner F Clinton, Ten



**Project Phase:** Construction Documents

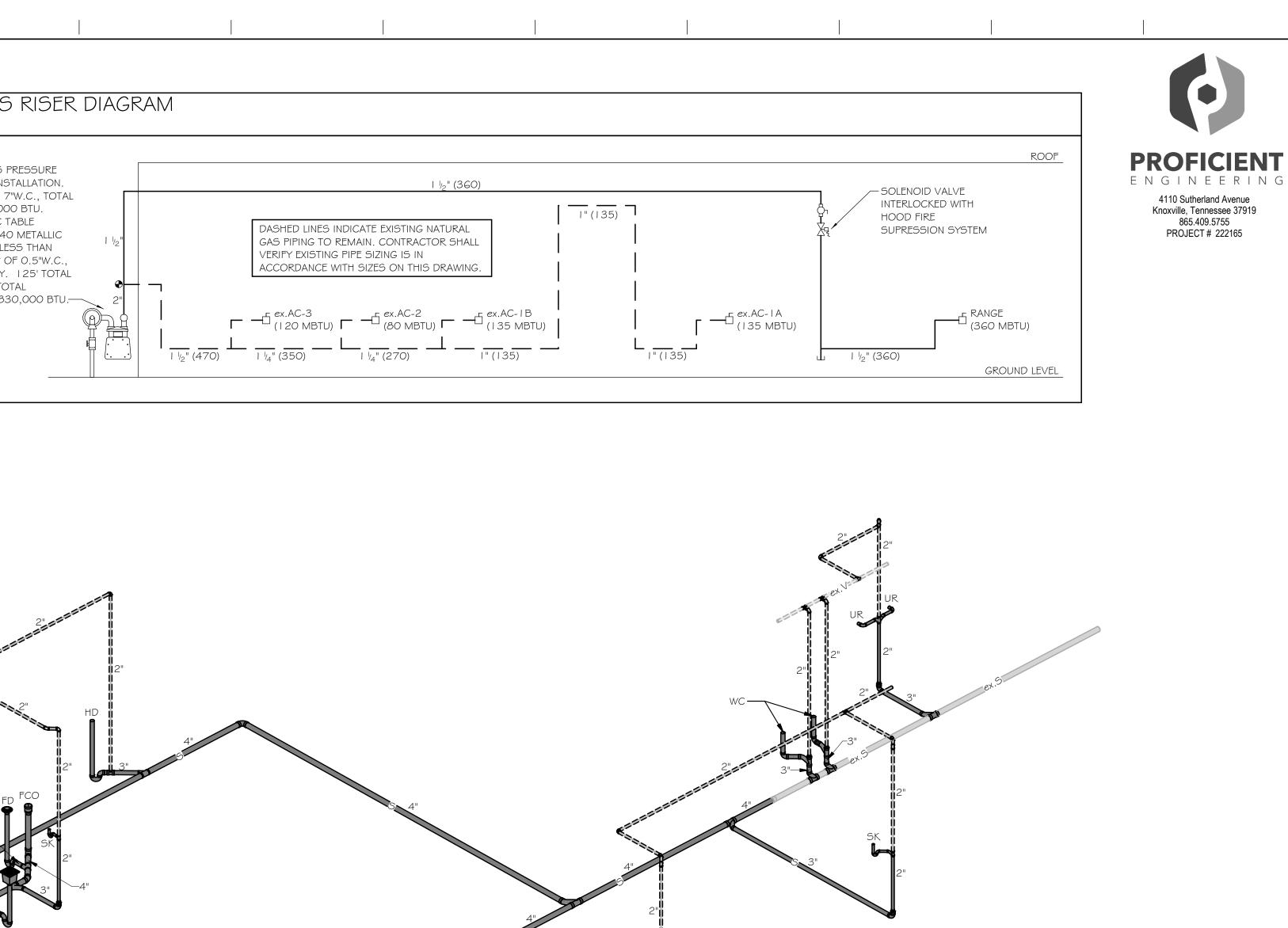
Rev	visions	
	Descripton	Date
1	Revision 1	02.14.2023

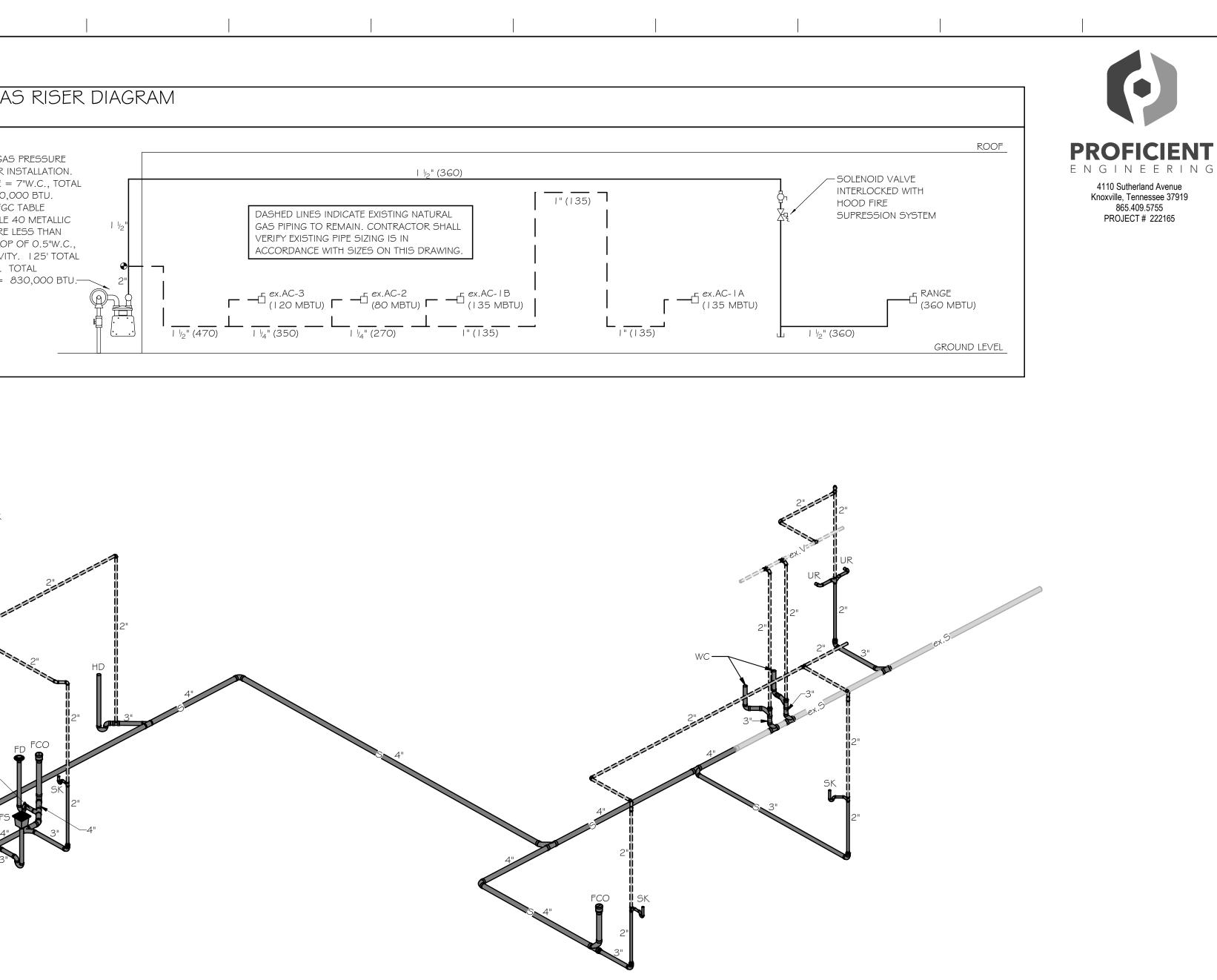
Job Number: DETAILS

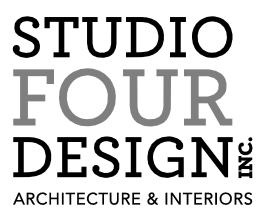
**P0.4** 

h77LHX.nt			NO SCALE EXISTING NATUR REGULATOR \$ M DELIVERY PRESS ADDED LOAD = SIZING BASED C 402.4(2) - SCHI PIPE, INLET PRES 2PSI, PRESSURE 0.60 SPECIFIC C DEVELOPED LEN	EDULE 40 METALLIC SURE LESS THAN E DROP OF 0.5"W.C., GRAVITY. I 25' TOTAI
Date:       2/14/2023       12:47:41 PM         Drawn By:       DL       Checked By: TW         File:       C:\Users\DylanLynch\Documents\222165       Anderson Co Senior Center Phase 2 Renovation - MEPv22_dylanlynch77LHX.rvt			3"	VTR 3" 2" FD FCO 3" FS SK 4" SK 2" 3"
© 2020 STUDIO FOUR DESIGN, inc. This drawing, its design detail and invention is the property of Studio Four Design, inc. and shall not be reproduced or used for any other project in whole or in part without written consent. This drawing is an instrument of service only and shall be returned to the Architect upon request.			UNDERSTRATION N.T.S.	OMETRIC

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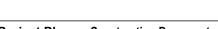
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**Project Phase:** Construction Documents





Issue Date: 02/14/23

Revisions

No. Descripton

1 Revision 1

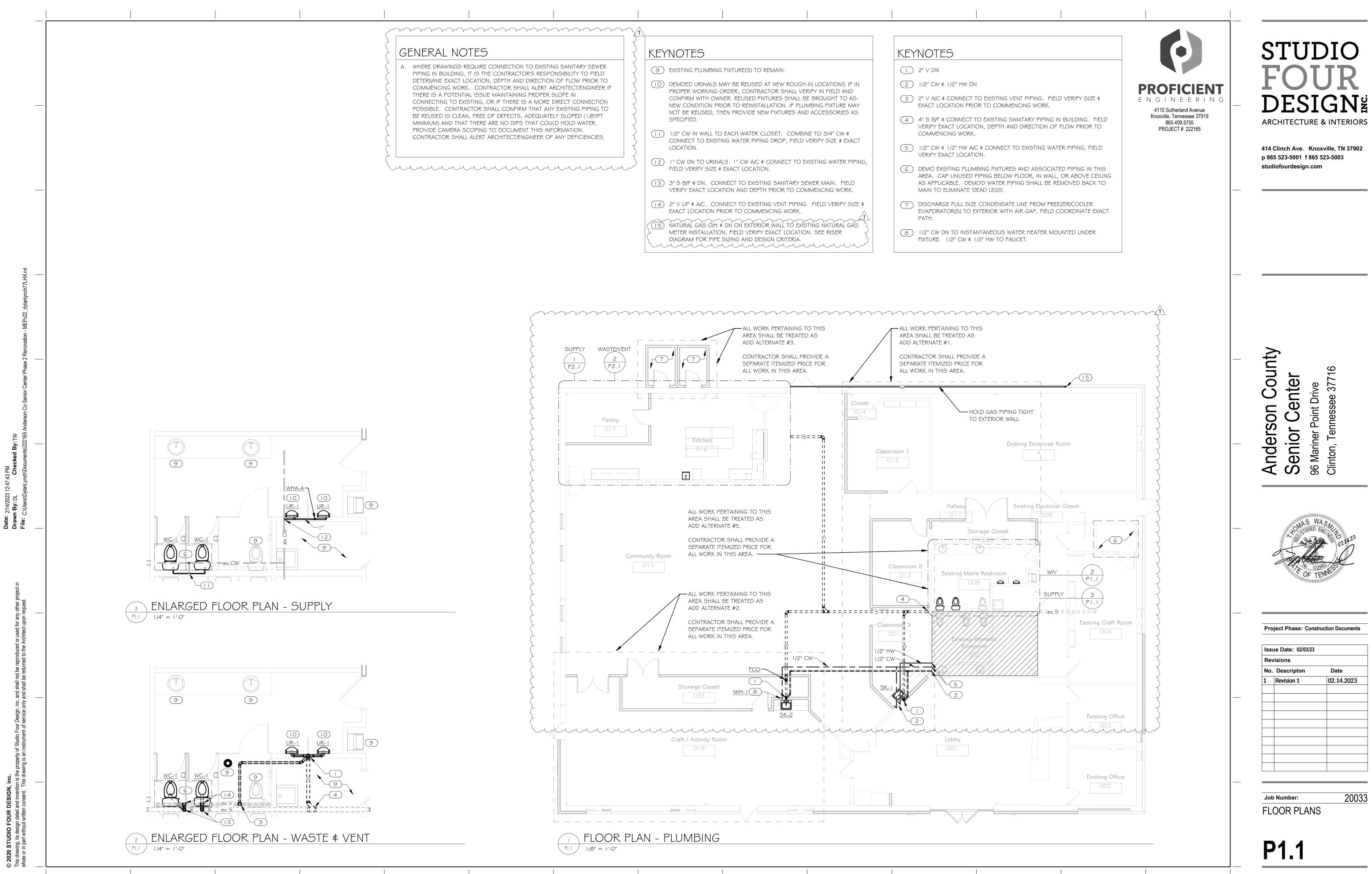
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Date 02.14.2023

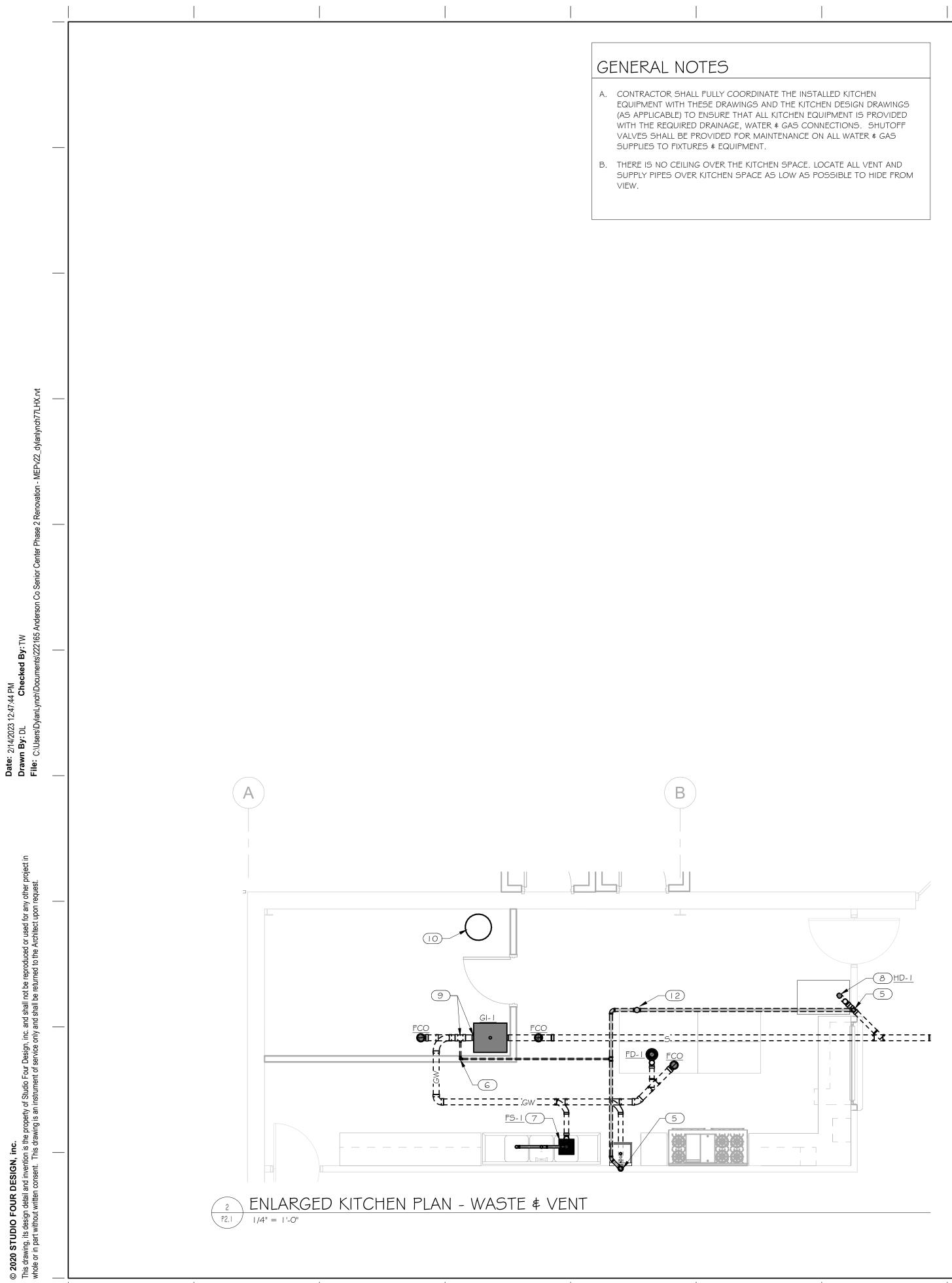
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**P0.5** 

**RISER DIAGRAMS** 



	$\sqrt{1}$	
	KEYNOTES	KEYNOTES
N TO EXISTING SANITARY SEWER OR'S RESPONSIBILITY TO FIELD	9 EXISTING PLUMBING FIXTURE(S) TO REMAIN.	() 2" V DN
D DIRECTION OF FLOW PRIOR TO ALL ALERT ARCHITECT/ENGINEER IF	DEMOED URINALS MAY BE REUSED AT NEW ROUGH-IN LO PROPER WORKING ORDER, CONTRACTOR SHALL VERIFY I	
NG PROPER SLOPE IN IS A MORE DIRECT CONNECTION RM THAT ANY EXISTING PIPING TO	CONFIRM WITH OWNER. REUSED FIXTURES SHALL BE BRONEW CONDITION PRIOR TO REINSTALLATION. IF PLUMBING NOT BE REUSED, THEN PROVIDE NEW FIXTURES AND ACC	OUGHT TO AS-32" V A/C & CONNECT TO EXISTING VENT PIG FIXTURE MAYEXACT LOCATION PRIOR TO COMMENCING
, ADEQUATELY SLOPED (1/8"/FT 6 THAT COULD HOLD WATER.	SPECIFIED.	(4)       4" S B/F & CONNECT TO EXISTING SANITAR         VERIFY EXACT LOCATION, DEPTH AND DIRI
ENT THIS INFORMATION.	2   (1) 1/2" CW IN WALL TO EACH WATER CLOSET. COMBINE TO	D 3/4" CW ¢ COMMENCING WORK.



# KEYNOTES

- (13) 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.
- (14) GAS SUPPLY DN W/DIRT LEG & A/F TO GAS FIRED APPLIANCE
- (15) FULL CONNECTION SIZE, VALVED FLEXIBLE GAS CONNECTION FROM GAS HEADER TO GAS FIRED APPLIANCE (SEE DETAIL). INSTALL VALVES IN ACCESSIBLE LOCATION BEHIND EQUIPMENT.

## KEYNOTES

- ( ) 3/4" CW ∉ 3/4" I 40°HW TO WATER HEATER INSTALLATION, SEE DETAIL
- 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 <u>BFP-1</u> AT FINAL CONNECTION

5 2" V DN

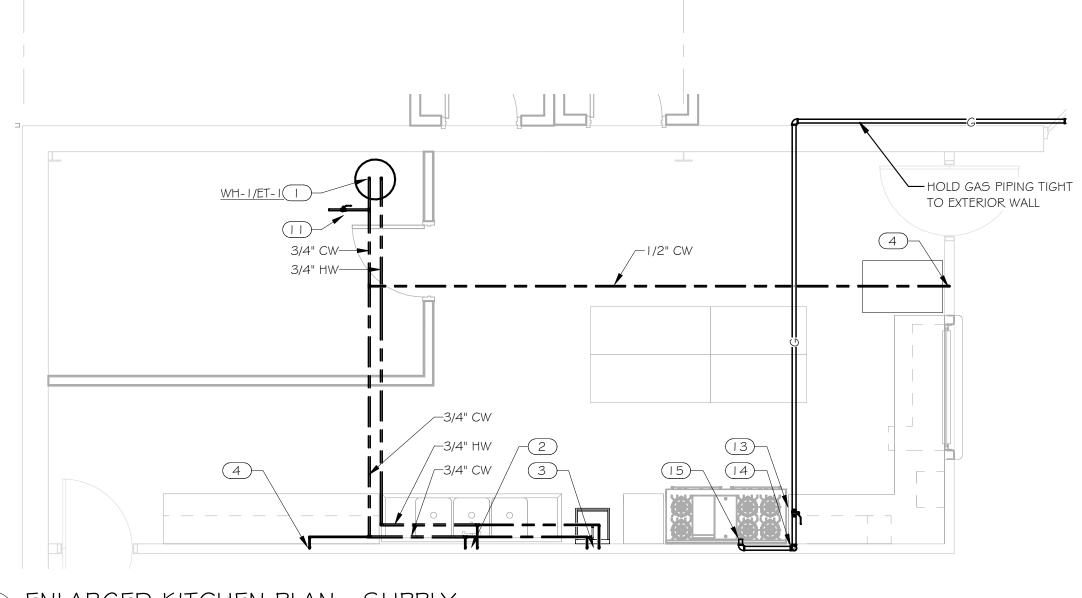
6 3/4" V DN

(7) 3" FLOOR SINK <u>FS-1</u>. DISCHARGE ALL NEARBY INDIRECT WASTE CONNECTIONS FULL SIZE W/AIR GAP AT LEAST TWICE THE DIAMETER OF INDIRECT WASTE PIPE (SEE DETAIL). FIELD COORDINATE WITH INSTALLED EQUIPMENT.

- 8 3" HUB DRAIN HD-I. DISCHARGE ALL NEARBY INDIRECT WASTE CONNECTIONS FULL SIZE W/AIR GAP AT LEAST TWICE THE DIAMETER OF INDIRECT WASTE PIPE (SEE DETAIL). FIELD COORDINATE WITH INSTALLED EQUIPMENT.
- 9 4" GW B/F TO NEW 35 GPM / 70 LB RECESSED (WITH TOP FLUSH WITH FLOOR) GREASE INTERCEPTOR GI-1, PDI APPROVED. ROUTE 3/4" VENT FROM MANUFACTURER'S FLOW CONTROL FITTING B/F & UP
- (10) ROUTE PAN DRAIN FOR NEW WATER HEATER INSTALLATION TO EXISTING EXTERIOR DRAINAGE LOCATION.
- (II) 3/4" CW A/C & CONNECT TO EXISTING WATER PIPING, FIELD VERIFY SIZE AND EXACT LOCATION.

B

(12) 3" V UP TO 3" VTR



ENLARGED KITCHEN PLAN - SUPPLY





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County 16 enter  $\sim$ Drive ee 377 Anderson Point  $\mathbf{O}$ enior 96 Mariner F Clinton, Ten Ś



**Project Phase: Construction Documents** 

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# SPECIFICATIONS

## GUARANTEE:

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 90A.

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.

## SHOP DRAWINGS:

SUBMIT SHOP DRAWINGS FOR REVIEW. PDF FILES PREFERRED. SHOP DRAWINGS SHALL BE BOUND INTO VOLUMES (FILES), WITH EACH VOLUME (FILE) CONTAINING ONE COPY OF ALL SHOP DRAWINGS. ALL SHOP DRAWINGS SHALL BE SUBMITTED SIMULTANEOUSLY; NO SHOP DRAWINGS WILL BE CHECKED UNTIL ALL HAVE BEEN SUBMITTED.

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.

TEST AND BALANCE:

TEST AND BALANCE (TAB) CONTRACTOR SHALL HOLD A CURRENT NATIONAL BALANCING COUNCIL (NBC) CERTIFICATION AND POSSESS ACCURATE AND CALIBRATED INSTRUMENTS. TAB WORK AND REPORTS SHALL BE PER NBC PRACTICAL STANDARDS, PROCEDURES AND FORMS. ACCEPTIBLE ALTERNATIVE TAB FIRM CERTIFICATIONS/PROCEDURES: NEBB, AABC, OR TABB.

PRIOR TO COMMENCEMENT OF THE TAB WORK, THE MECHANICAL SYSTEMS ARE TO BE STARTED AND FULLY FUNCTIONING. A CHECKLIST PRIOR TAB WORK IS TO BE SENT TO THE INSTALLING CONTRACTOR AND RETURNED ATTESTING TO THE READINESS OF THE SYSTEMS FOR BALANCING.

PREFERRED TAB FIRM: P-TAB.COM

JD	REVIATIC	NS			PROFICIE		STUDIO FOUR
	ABOVE FINISHE	D FLOOR	MA	MAKE-UP AIR	ENGINEERI	N G	DESIGN
)	BACKDRAFT DA	AMPER	MAU	MAKE-UP AIR UNIT	4110 Sutherland Avenue Knoxville, Tennessee 3791 865.409.5755		
J	AIR HANDLING L	JNIT	MAV	MANUAL AIR VENT	PROJECT # 222165		ARCHITECTORE & INTERIOR.
2	CARBON DIOXI	DE	MBH	I ,000 BTU PER HR			414 Clinch Ave. Knoxville, TN 37902
	CONDENSATE D	DRAIN	MFCU	MINI FAN COIL UNIT			p 865 523-5001  f 865 523-5003 studiofourdesign.com
	DRY BULB		MHP	MINI HEAT PUMP			
	EXHAUST AIR		MVD	MANUAL VOLUME DAMPER		—	
	ENTERING AIR TEMPERATURE		NC	NORMALLY CLOSED			
	ELECTRIC DUCT	T HEATER	NO	NORMALLY OPEN			
	EXHAUST FAN		OA	OUTSIDE AIR			
	EXTERNAL STAT PRESSURE	ΓIC	OBD	OPPOSED BLADE DAMPER			
	ELECTRIC WALL	HEATER	PIU	POWER INDUCTION UNIT			
	DEGREES FAHR	RENHEIT	RA	RETURN AIR			
	FAN COIL UNIT		RH	RELIEF HOOD			
	FIRE DAMPER		RTU	ROOFTOP UNIT			
	COMBINATION FIRE/SMOKE DA	AMPER	SA	SUPPLY AIR			
	HUMIDISTAT		SP	STATIC PRESSURE			L Z
	INTAKE HOOD		UC	UNDER CUT DOOR			County inter Drive ee 37716
	LEAVING AIR TE	EMPERATURE	VAV	VARIABLE AIR VOLUME			
	LEAVING WATER TEMPERATURE	९	WB	WET BULB			n Col centel nt Drive ssee 377
	MOTOR		WL	WALL LOUVER			on On sint ess
E(-	SYMBOLS			DESCRIPTION			Anderson Cour Senior Center 96 Mariner Point Drive Clinton, Tennessee 37716
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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	-	IH
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.	-	LAT
WHERE EXISTING WALLS, CEILINGS, FLOORS, ETC., ARE CUT OR OTHERWISE DAMAGED	-	LWT
DURING CONSTRUCTION, REPAIR ALL SURFACES TO THEIR ORIGINAL CONDITION. DUCTWORK AND ACCESSORIES:		Μ
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.		LEG
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		
		1

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.

SPECIFICATIONS

TIME OF ACCEPTANCE OF BID.

SERVICES, AS INDICATED.

REMAIN.

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

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

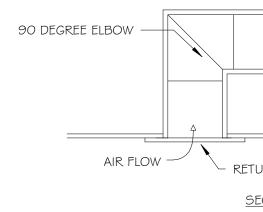
APPROVED. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES THAT ARE TO

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

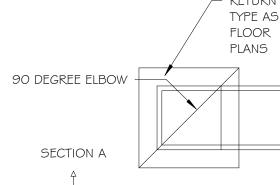
EXISTING CONDITIONS:

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Date: 2/3/2023 12:46:52 PM Drawn By: Author Checked By: Checker File: C:\Users\jwilliams\Documents\222165 Anders	
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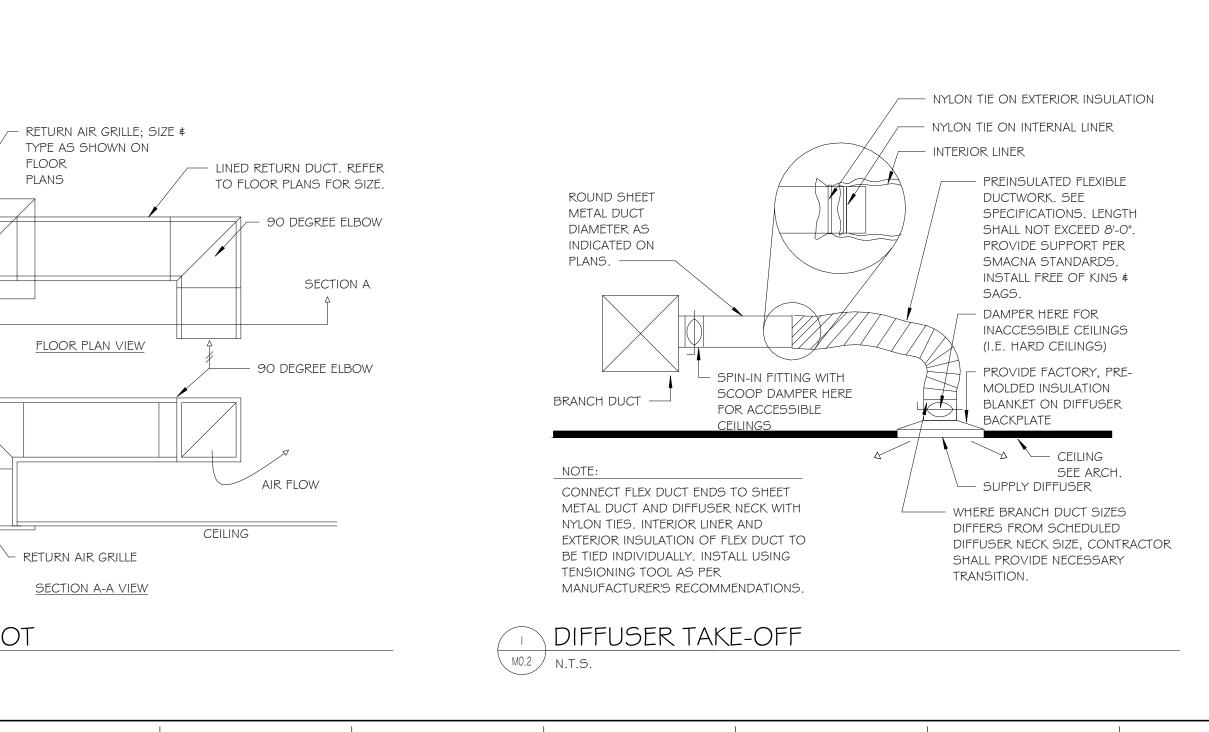


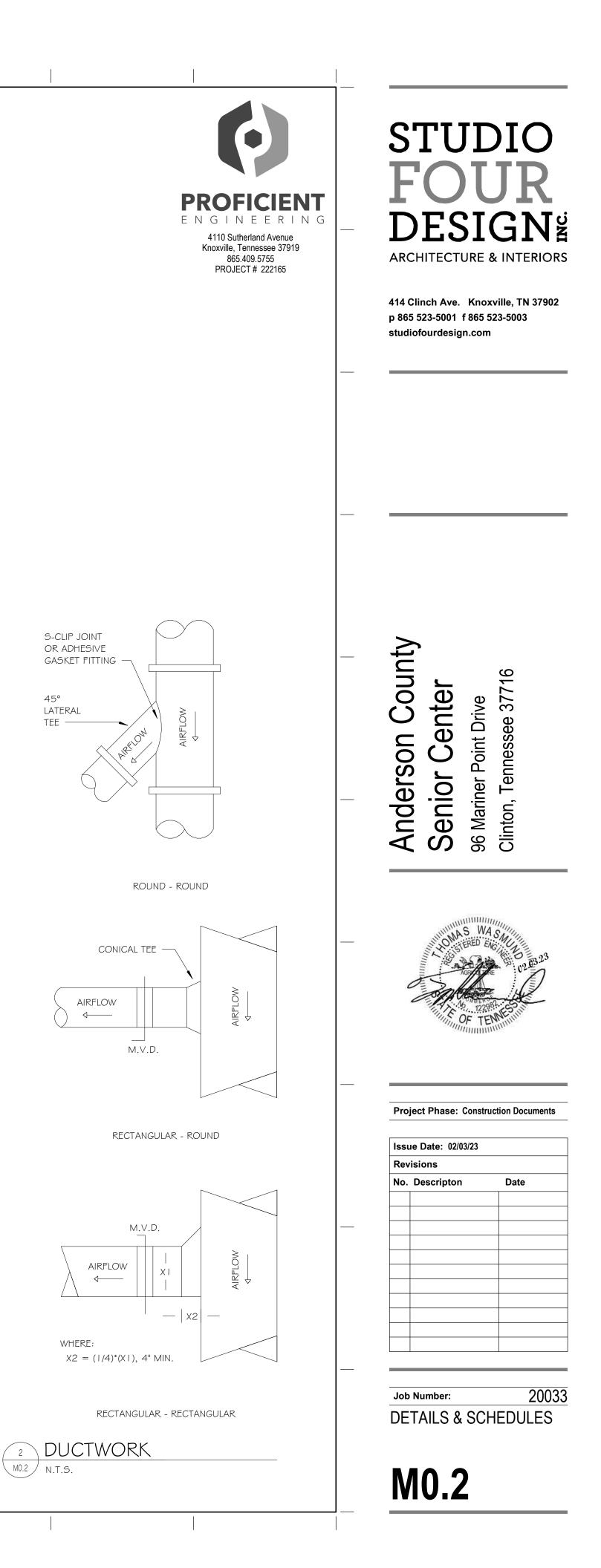


# DIFFUSER, GRILLE AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA AT MAX CFM	MODEL
RC2424	EGGCRATE GRILLE	24x24	24x24	25	TITUS 50F
RS2418	EGGCRATE GRILLE	24x18	24x18	25	TITUS 50F
RS2424	EGGCRATE GRILLE	24x24	24x24	25	TITUS 50F
R53030	EGGCRATE GRILLE	30X30	30X30	25	TITUS 50F
RS4824	EGGCRATE GRILLE	48x24	48x24	25	TITUS 50F
SCEC2424	EGGCRATE SUPPLY GRILLE	24x24	24x24	25	TITUS 50F
SCP06	PLAQUE SUPPLY	24x24	бØ	25	TITUS OMNI
SCP08	PLAQUE SUPPLY	24x24	8Ø	25	TITUS OMNI
551806	DOUBLE DEFLECTION SUPPLY	20x8	1 8x6	25	TITUS 300FS
552406	DOUBLE DEFLECTION SUPPLY	26x8	24x6	25	TITUS 300FS

A. AIR DEVICE (I.L. DIT USERS, REGISTERS AND GRIELES) COLOR SELECTION SHALL DE MADE DE ARCHITECT. CONTRACTOR SHALL SUDMIT
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.

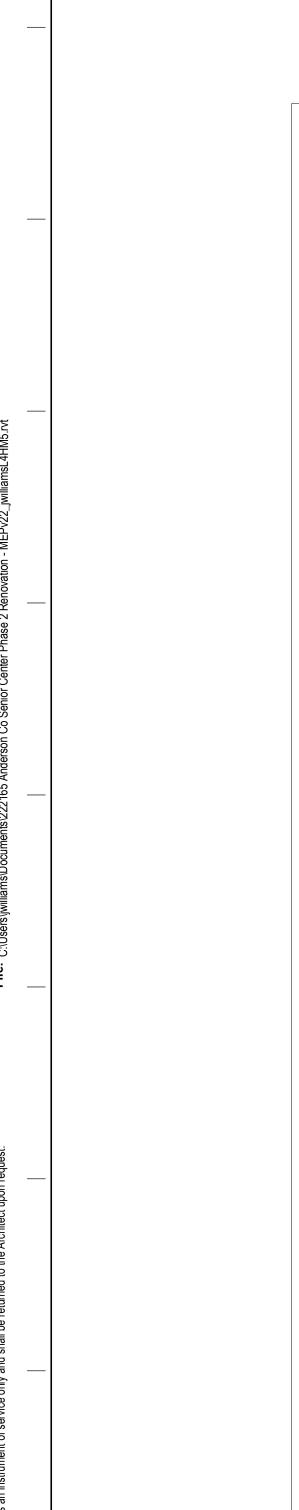


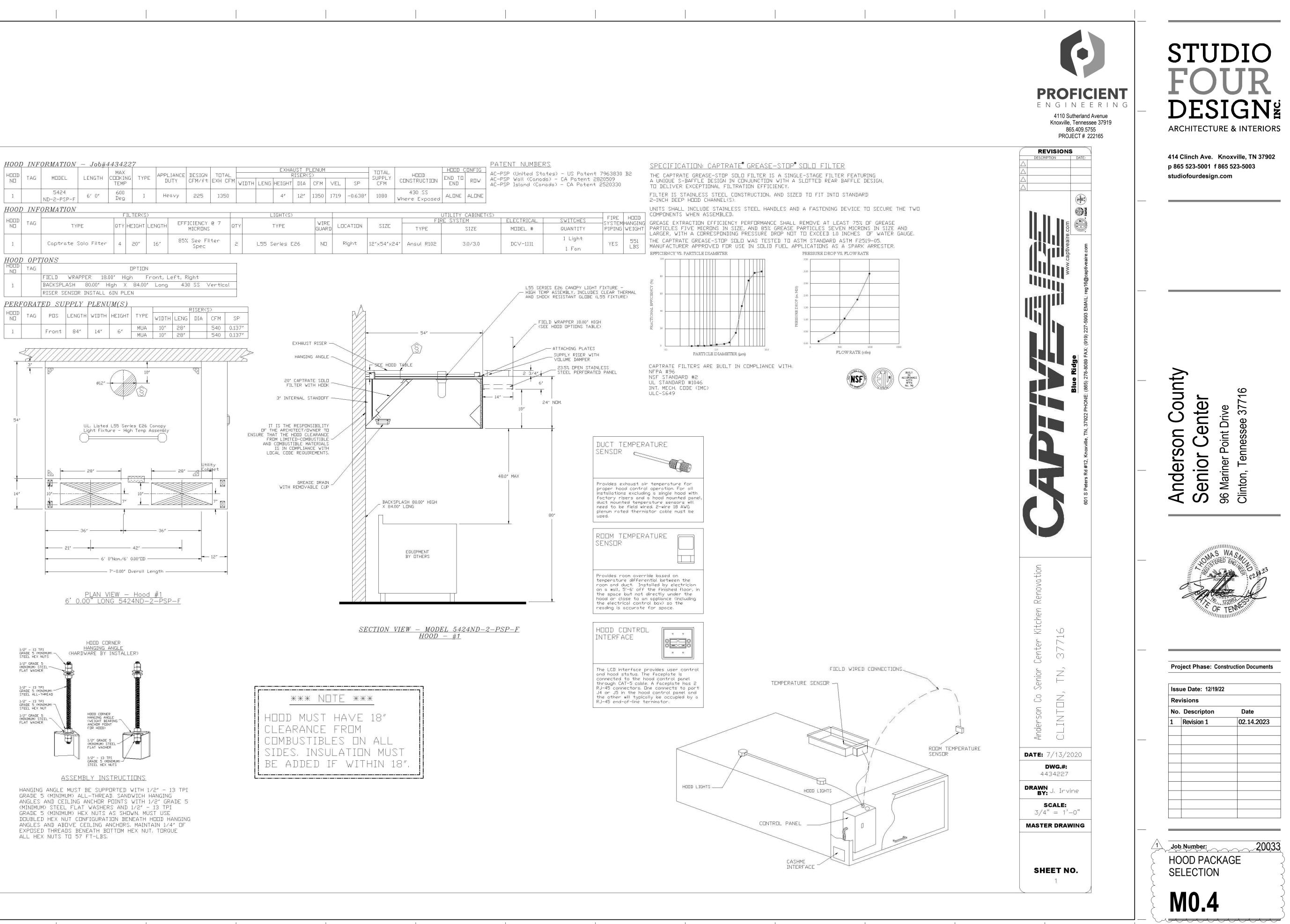


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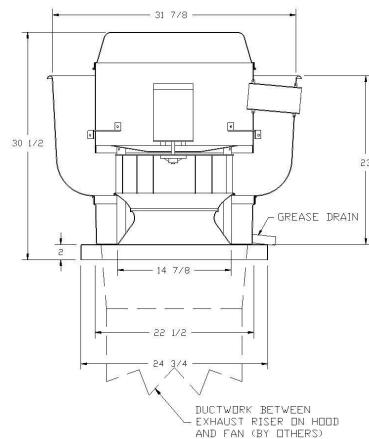


FAN UNIT ND	TAG	100400	FAN UNIT	MODEL	#	CFM	ESP	RPM	MD <sup>-</sup> EN		ΗP	BHP	ø	VOLT	FLA	DIS VE	
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FAN UNIT ND	TAG				DF	PTION (Qt	y - Desc	r)									
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FAN			EXHAUST			SUP	PLY										
UNIT ND	TAG	GREASE CUP	GRAVITY DAMPER		SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZ DAMPER		ALL IUNT								
1		YES							8								
2					YES		YES	V	ΈS								

<u>FAN #1 DU85HFA - EXHAUST FAN</u>

40 LBS

1 # 1



Curb

FEATURES:

23.000"W × 23.000"L × 26.000"H Right Vented Hinged

- 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 OVERLOAD PROTECTION (SINGLE PHASE) - HIGH HEAT OPERATION 300°F (149°C) GREASE CLASSIFICATION TESTING

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

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

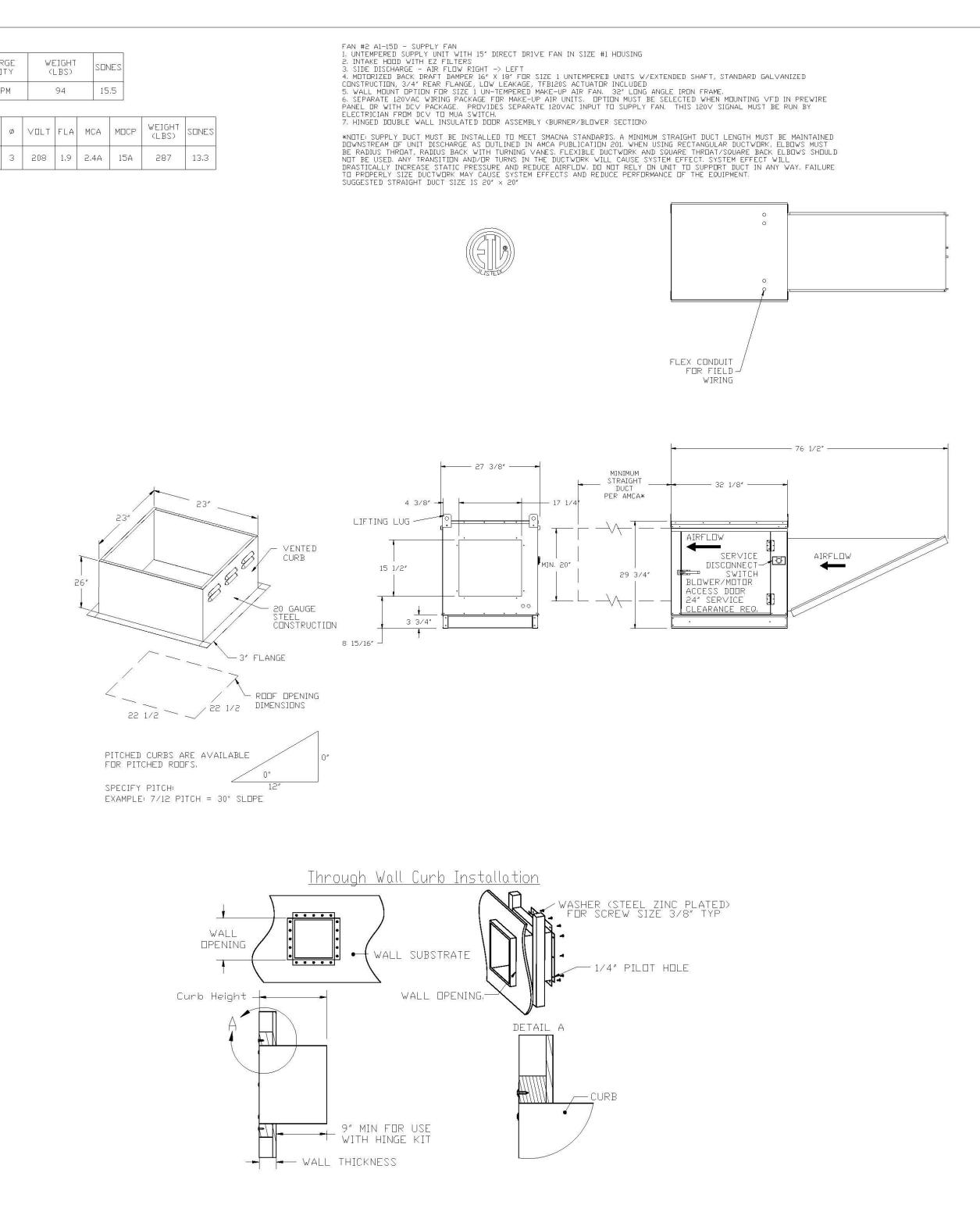
## OPTIONS

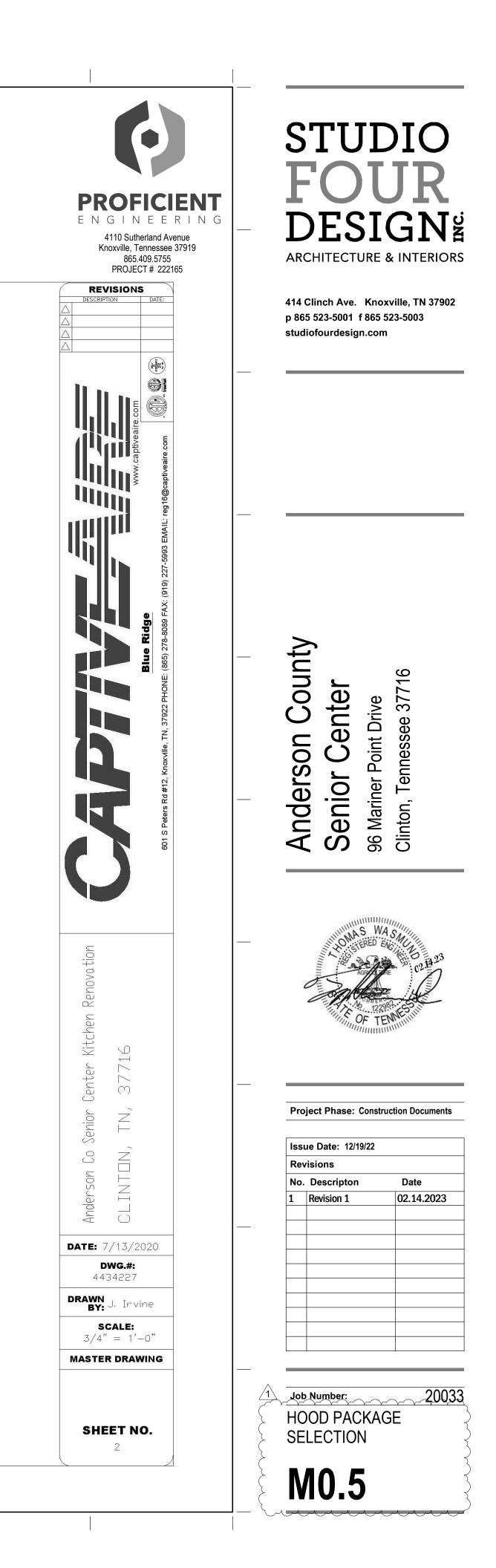
GREASE BOX. THROUGH WALL CURB MOUNT INSTALLATION, CURB HEIGHT MUST BE MINIMUM 9° TALLER THAN WALL THICKNESS FOR USE WITH A HINGE KIT. WALL MOUNT CONSTRUCTION FOR FAN. SHIP LOOSE DISCONNECT FOR REMOTE MOUNT.

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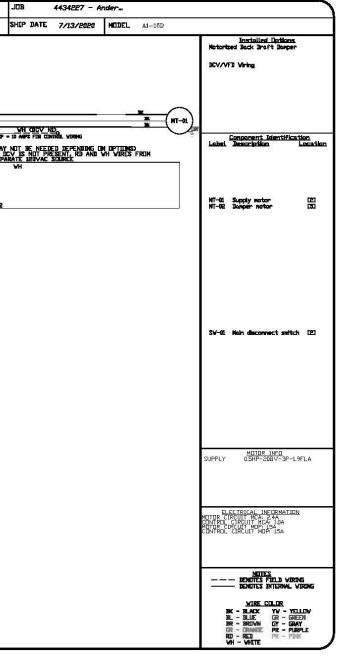
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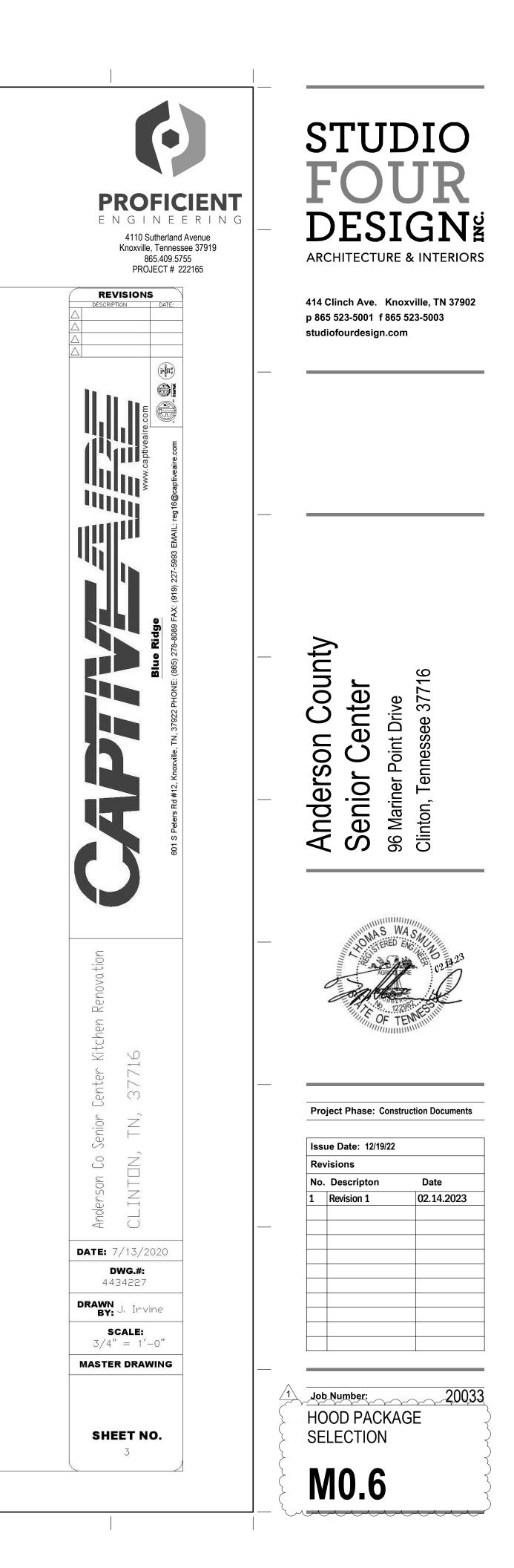




Exhaust Fan Wiring AirHandler Wiring J03 4434227 - Ander... 4434227 - Ander... JDB SHIP DATE 7/13/2020 MEDEL DU85HFA DRAWING NUMBER A4434227-2 DRAWING NUMBER EXH4434227-1 NATTENTION ELECTRICIANI DROP FOR DISCONNECT CONNECTION IS FACTORY SUPPLIED CONNECT POWER TO THE DROP VH COCV NO NDCP - 10 AMPS FOR CONTROL VIEWS <u>Conconent Identification</u> Label Description Lacation CHAY NOT BE NEEDED DEPENDING ON OPTIONSO IF DCV IS NOT PRESENT, RU AND VH VURES FROM SEPARATE LEOVAC SCHRLE IN VH MT-01 Fan Notar **C3**0 SV-01 Nain disconnect suitch [3] 1 O 2 MT-02 XHAUST 0.75HP-208V-3P-2.6FLA <u>ELECTRICAL INFORMATION</u> MOTOR/CTRL MCA: 3.3A MOTOR/CTRL MOP: 15A <u>- Idencites</u> — — Dencites Field Virong — Dencites internal Virong HIE COLOR H. SLADX YY - YELLIN R. SKADY GY - CRAY R. SKADY GY - CRAY R. SKADY GY - CRAY R. SKADY - YELLIN R. SKADY - YELLIN R. SKADY R. SK **cked By:**Ch ::53:54 PM Che 23 12: uthor **Date**: 2/14/202 **Drawn By:** Au **File:** C:\Users\j y other p request. © 2020 STUDIO FOUR DESIGN, inc. This drawing, its design detail and invention is the property of Studio Four Design, inc. and shall not be reproduced or used for an whole or in part without written consent. This drawing is an instrument of service only and shall be returned to the Architect upon

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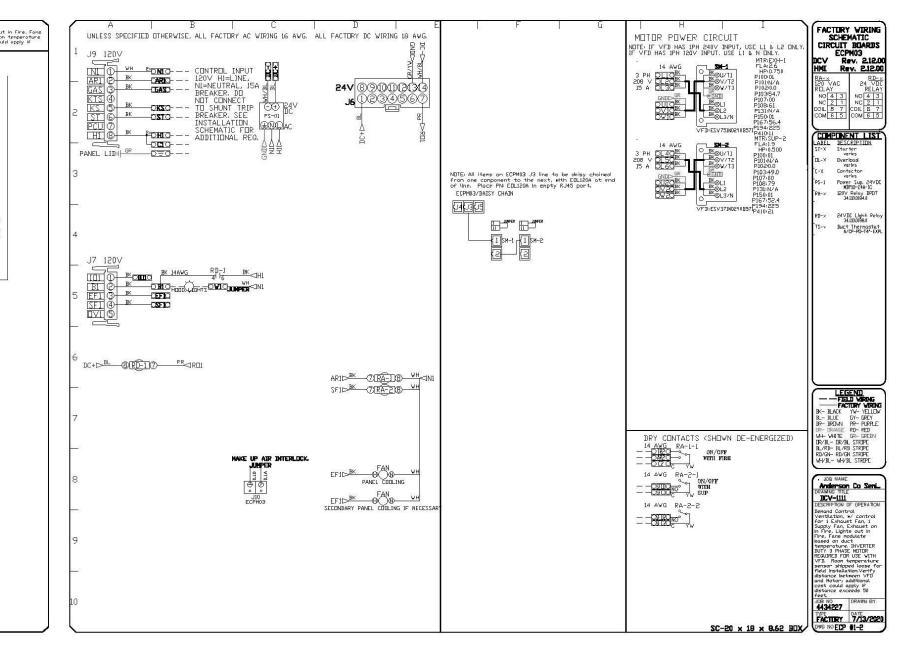


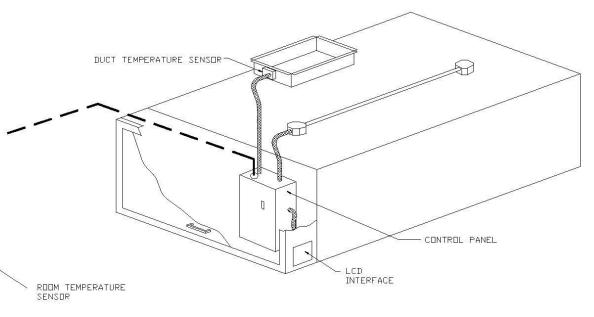
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E PN

1 DCV-1111 Utility Cabinet Right	SWITCHES       LDCATION     QUANTITY       Utility Cabinet     1 Light       Right     1 Fan	Smart Controls DCV	FANSCONTROLLEDTYPEImage: FillerImage: FillerExhoust30.750208Supply30.500208
JOB NO 4434227 MODEL NUMBER DCV-1111 JOB NAME Anderson Co Serie	DRAMM BY SCHBAAT INST DATE DWG NO 7/13/2020 ECP	ALL Demond Control Ventilotion, w/ control for J Exhaust Fan, J Su modulate based on duct temperature, INVERTER DUTY 3 PHASE M sensor shipped loose for field installion.Verify distance betw	ugely Fan, Edhouat on in Fire, Liphts out. Million Relights file Uis with VFB. Boon ween, VFB and Notor; additional cost could
1         2         3         4         4         5         6         10         7         7         8         10         11         12         13         14         15         16         17         18         19         10         10         11         12         13         14         15         15         16         17         18         19         10         10         11         12         12         13         14         15         16         17         18         19         19         19         19         19         19         19         19         19         19         19	CUNTROL PANEL TU ACCESSURY Responsibility Electrican CONTROL PANEL TO FIRE SYSTEM DITC FIRE SYSTEM DITC FIRE SYSTEM DITC DITCO PANEL CONTROL PANEL	CDPENENT HURDSWITCH 1 SUPPLY FAN SUPE SUPPLY FAN SUPPLY SUPPLY FAN SUPE SUPPLY FAN SUPPLY SUPPLY FAN SUPPLY	COMMON NORMAL LY DPEN COMMON NORMAL LY DPEN TRANSON TRANSON TRANSON TENNAL STEP TO THENNAL STEP TO THENNAL STEP TO BHS TERMINAL STEP TO BHS TO BHS SVITCH BMS SVITCH COMMON TCH THROUGH BHS TATE ZONEL FANS AND
<ul> <li><u>Demand Control Ventilation Hood</u></li> <li>Controls shall be listed by ETL (UL turndown requirements outlined in IE</li> <li>The control enclosure shall be NEMA exhaust hood utility cabinet. The control enclosure shall be control enclosure shall be nema exhaust hood utility cabinet.</li> </ul>	508A) and shall comply with ECC 403.2.8 (2015), A 1 rated and listed for In	n demand ventilation system stallation inside of the	
or painted steel. - Temperature probe(s) located in thi stainless steel.	e exhaust duct riser(s) sh	all be constructed of	
		haust fans dynamically based	
<ul> <li>A digital controller shall be provide on a fixed differential between the shall meet the requirements of IMC</li> </ul>	amblent and duct tempera		۲ ا
on a fixed differential between the shall meet the requirements of IMC - A digital controller shall provide ad fans after the cooking appliances b	ambient and duct tempera 507.1.1. Ijustable hysteresis settin	tures sensors. This function gs to prevent cycling of the	
on a fixed differential between the shall meet the requirements of IMC - A digital controller shall provide ad	amblent and duct tempera 507.1.1. Ijustable hysteresis settin nave been turned off and/	tures sensors. This function gs to prevent cycling of the 'or the heat in the exhaust	
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<ul> <li>on a fixed differential between the shall meet the requirements of IMC</li> <li>A digital controller shall provide ad fans after the cooking appliances by system is reduced.</li> <li>A digital controller shall provide an cycling.</li> <li>Variable Frequency Drives (VFDs) short controller shall modulate the VFDs demand. The duct temperature sented to the sented to the temperature sented to the tem</li></ul>	ambient and duct tempera 507.1.1. Ijustable hysteresis settin have been turned off and/ adjustable minimum fan ru hall be provided for fans between a minimum setpoint sor input(s) to the digital al. shall be from 0% to 100% f	tures sensors. This function gs to prevent cycling of the 'or the heat in the exhaust n-time setting to prevent fan as required. The digital and a maximum setpoint on controller shall be used to 'or the system, with the actual	<u>Sequence o</u>
<ul> <li>on a fixed differential between the shall meet the requirements of IMC</li> <li>A digital controller shall provide ad fans after the cooking appliances by system is reduced.</li> <li>A digital controller shall provide an cycling.</li> <li>Variable Frequency Drives (VFDs) sl controller shall modulate the VFDs demand. The duct temperature sens calculate the speed reference signal</li> <li>The VFD speed range of operation minimum speed set as required to me</li> <li>An internal algorithm to the digital proportional to all exhaust fans the</li> </ul>	ambient and duct tempera 507.1.1. Ijustable hysteresis settin have been turned off and/ a adjustable minimum fan ru hall be provided for fans between a minimum setpoint sor input(s) to the digital al. shall be from 0% to 100% f eet minimum ventilation requ controller shall modulate so	tures sensors. This function gs to prevent cycling of the 'or the heat in the exhaust n-time setting to prevent fan as required. The digital and a maximum setpoint on controller shall be used to 'or the system, with the actual irements. supply fan VFD speed e fan group as the supply fan	<u>Sequence o</u> The hood cont given time: - <u>Automatic:</u> the tempe
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<ul> <li>on a fixed differential between the shall meet the requirements of IMC</li> <li>A digital controller shall provide ad fans after the cooking appliances is system is reduced.</li> <li>A digital controller shall provide an cycling.</li> <li>Variable Frequency Drives (VFDs) sil controller shall modulate the VFDs demand. The duct temperature sens calculate the speed reference signing.</li> <li>The VFD speed range of operation minimum speed set as required to me</li> <li>An internal algorithm to the digital proportional to all exhaust fans the sufficient heat remains underneath completed. Dperation during either of the system shall operate in PREP Misting and set as a state of the sufficient heat remains underneath completed. Dperation during either of the system shall operate in the system shall operate of the system shall operate in the system shall operate of the system shall operate operation during either operation during either operation during system shall operate operation during system sys</li></ul>	ambient and duct tempera 507.1.1. Ijustable hysteresis settin have been turned off and/ a adjustable minimum fan ru hall be provided for fans between a minimum setpoint sor input(s) to the digital al. shall be from 0% to 100% f eet minimum ventilation requ controller shall modulate : hat are located in the sam DDE during light cooking loo the hood system after co of these periods will disable l to the minimum ventilation e supply fan(s), activate t	tures sensors. This function gs to prevent cycling of the 'or the heat in the exhaust n-time setting to prevent fan as required. The digital and a maximum setpoint on controller shall be used to 'or the system, with the actual irements. supply fan VFD speed e fan group as the supply fan ad or COOL DOWN MODE when ooking operations have e the supply fans and provide requirement. he exhaust fan(s), activate	<u>Sequence o</u> The hood cont given time: - <u>Automatic:</u> the tempe configurak zone can motor (suc
<ul> <li>on a fixed differential between the shall meet the requirements of IMC</li> <li>A digital controller shall provide ad fans after the cooking appliances is system is reduced.</li> <li>A digital controller shall provide an cycling.</li> <li>Variable Frequency Drives (VFDs) sl controller shall modulate the VFDs demand. The duct temperature sens calculate the speed reference signing.</li> <li>The VFD speed range of operation minimum speed set as required to meet as required to meet an internal algorithm to the digital proportional to all exhaust fans the Sufficient heat remains underneath completed. Operation during either of an exhaust fan speed that is equal</li> <li>A digital controller shall disable the appliance shunt trip, and disable</li> </ul>	ambient and duct tempera 507.1.1. Ijustable hysteresis settin have been turned off and/ adjustable minimum fan ru hall be provided for fans between a minimum setpoint sor input(s) to the digital al. shall be from 0% to 100% f eet minimum ventilation requ controller shall modulate s hat are located in the sam ODE during light cooking loc the hood system after co of these periods will disable l to the minimum ventilation e supply fan(s), activate t e an electric gas valve au external BMS fan control of	tures sensors. This function gs to prevent cycling of the 'or the heat in the exhaust n-time setting to prevent fan as required. The digital and a maximum setpoint on controller shall be used to 'or the system, with the actual irements. supply fan VFD speed e fan group as the supply fan ad or COOL DOWN MODE when boking operations have e the supply fans and provide requirement. he exhaust fan(s), activate tomatically when fire condition	<u>Sequence o</u> The hood cont given time: the tempe configurak zone can motor (suc equipped w within a us variable s calculated







## TYPICAL HOOD CONTROL PANEL INSTALLATION

of <u>Operations</u>:

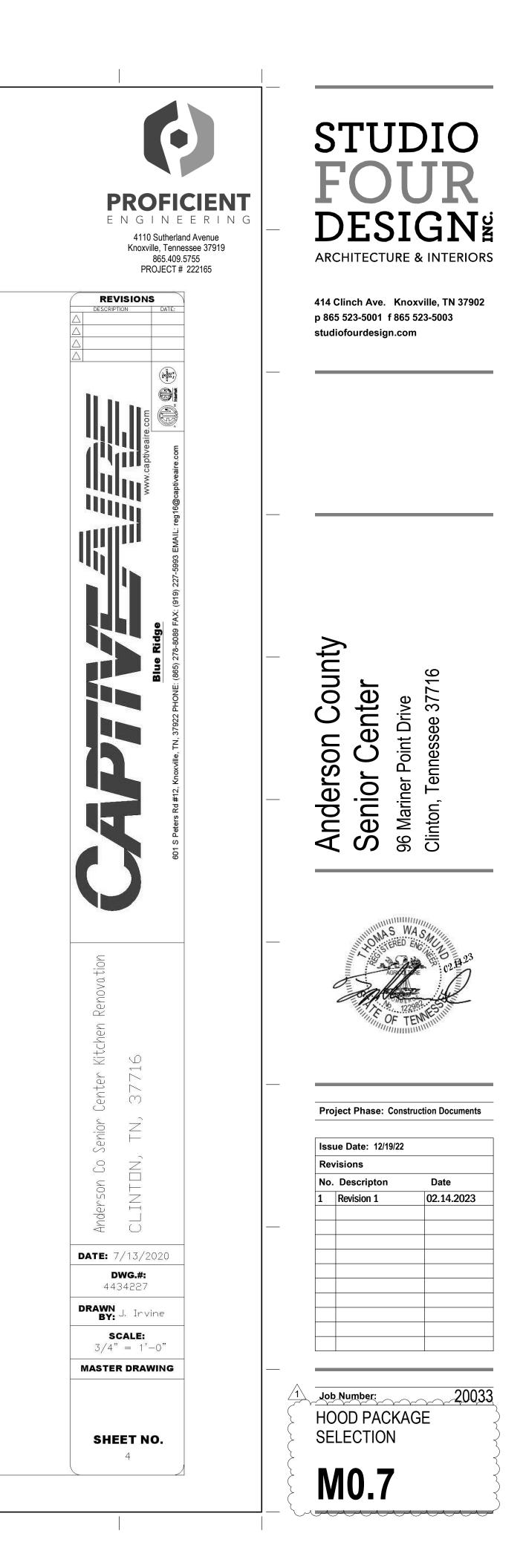
trol panel is capable of operating in one or more of the following states at any

The system operates based on the differential between room temperature and erature at the hood cavity or exhaust duct collar. Fans activate at a uble temperature differential threshold. Depending on the job configuration each fan be configured as static or dynamic. These terms refer to whether a variable uch as EC Motors or VFD driven motors) modulate with temperature. If the panel is with variable speed fans and the zone is defined as "dynamic", these will modulate user-defined range based on the temperature differential. Panels equipped with speed fans and a fan zone defined as "static", fans will run at a set speed d for the drive. Demand control ventilation systems are capable of modulating and make up air fan speeds per the requirements outlined in IECC 403.2.8.

he system operates based on human input from an HMI.

A weekly schedule can be set to run fans for a specified period throughout the re are three occupied times per day to allow for the user to set up a time that is to their needs. Any time that is within the defined occupied time, the system will run ation mode and follow the fan procedure algorithm based on temperature during this ng unoccupied time, the system will have an extra offset to prevent unintended n of the system during a time where the system is not being occupied.

ne system operates based on the input from an external source (DDC, BMS or ed interlock)



<u>System Design Verification (SDV)</u>

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.

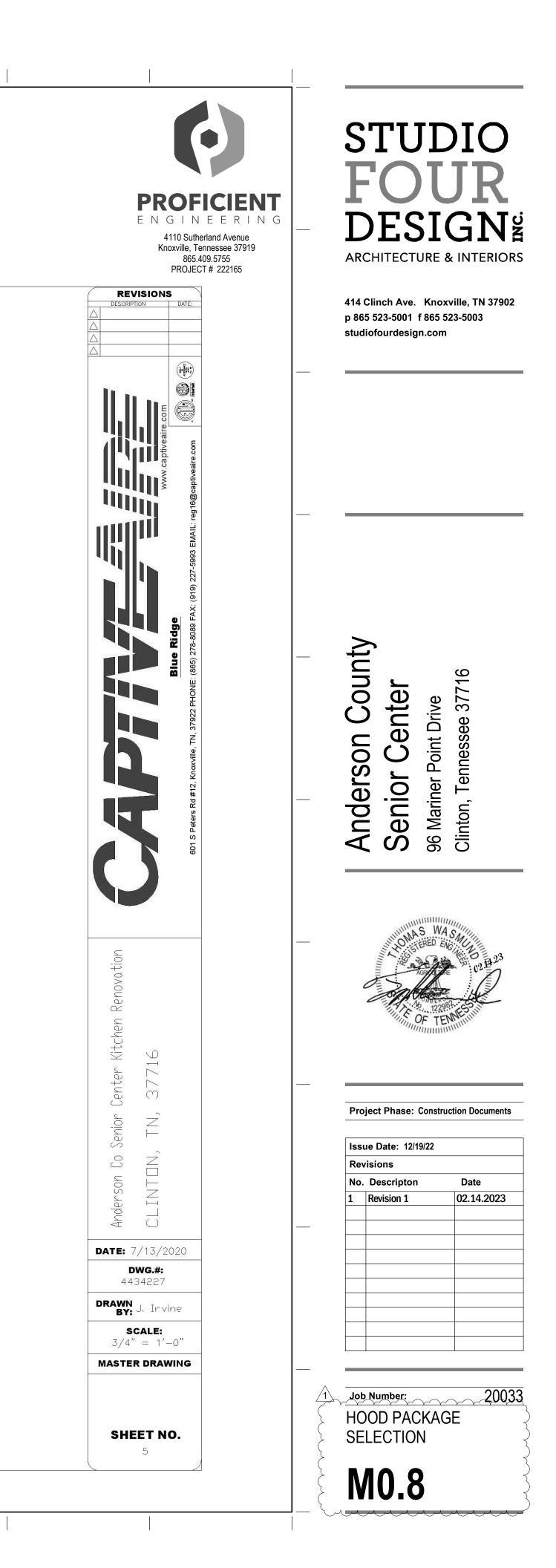
Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the sales office 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.

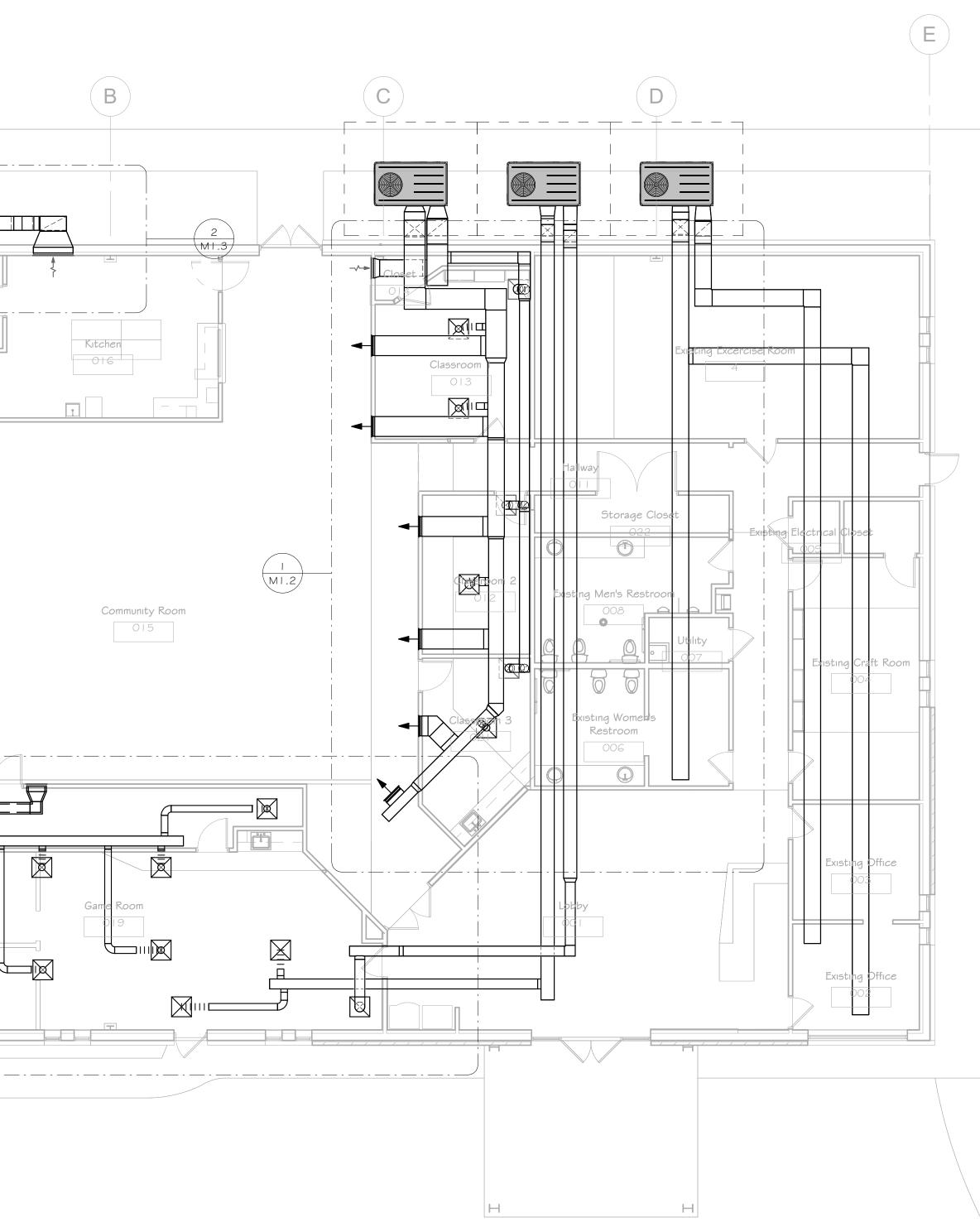


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FLOOR PLAN - MECHANICAL





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

Anderson County Senior Center 96 Mariner Point Drive Clinton, Tennessee 37716







**Project Phase:** Construction Documents

Date

Issue Date: 02/03/2023

Revisions

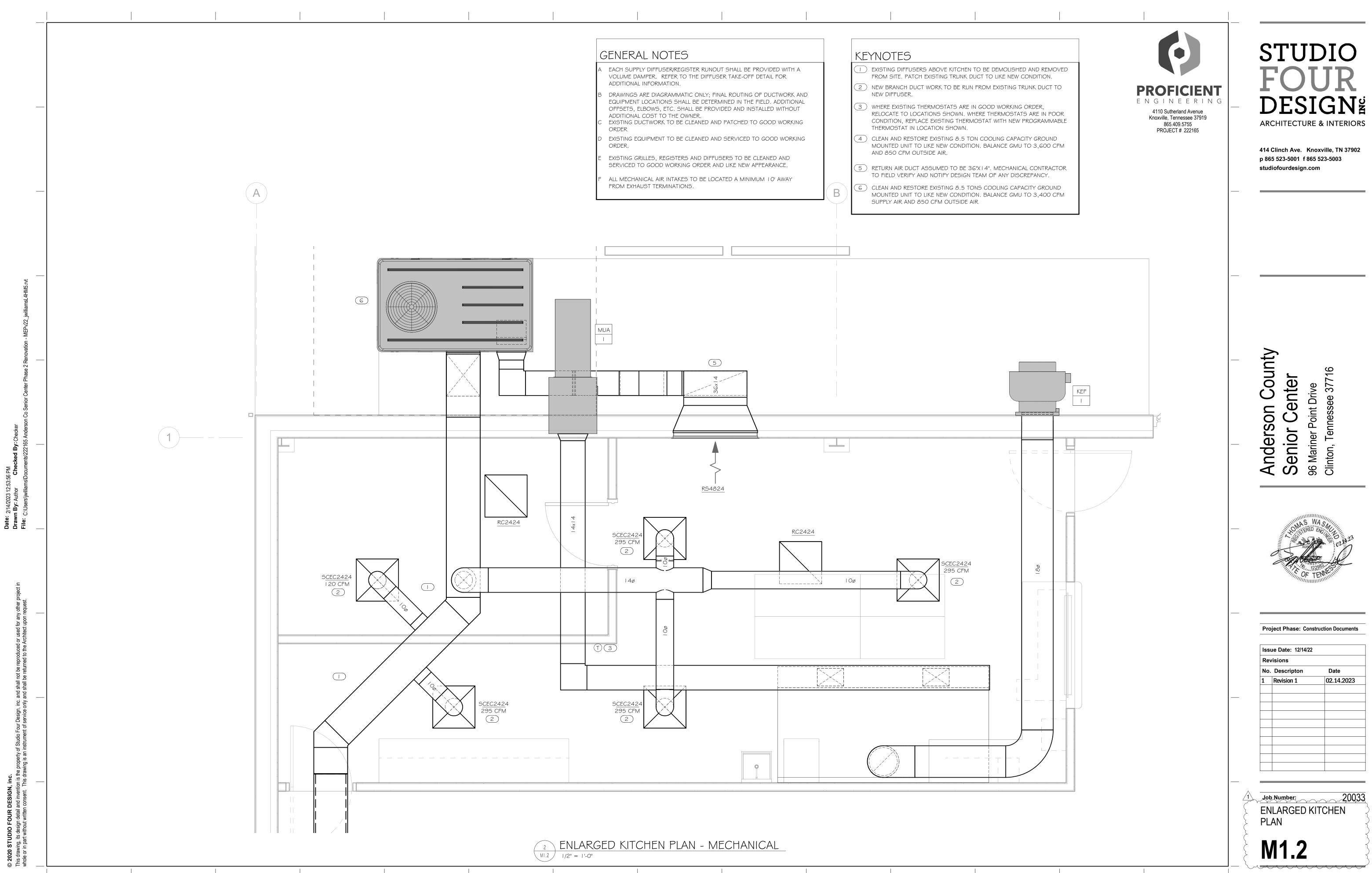
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No. Descripton



FLOOR PLAN



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

# KEYNOTES

3/4" DOOR UNDERCUT.

- 2 NEW BRANCH DUCT WORK TO BE RUN FROM EXISTING TRUNK DUCT TO NEW DIFFUSER.
- (3) WHERE EXISTING THERMOSTATS ARE IN GOOD WORKING ORDER, RELOCATE TO LOCATIONS SHOWN. WHERE THERMOSTATS ARE IN POOR CONDITION, REPLACE EXISTING THERMOSTAT WITH NEW PROGRAMMABLE THERMOSTAT IN LOCATION SHOWN.
- (4) CLEAN AND RESTORE EXISTING 8.5 TON COOLING CAPACITY GROUND MOUNTED UNIT TO LIKE NEW CONDITION. BALANCE GMU TO 3,600 CFM AND 850 CFM OUTSIDE AIR.
- 5 EXTEND NEW RETURN DUCT TO NEW BRANCH DUCTS AND NEW GRILLES AS SHOWN.
- 6 EXTEND AND REBALANCE EXISTING SIDE SUPPLY DIFFUSERS TO LOCATION AND CFM SHOWN
- (7) CLEAN AND RESTORE EXISTING 3.5 TON COOLING CAPACITY GROUND MOUNTED UNIT TO LIKE NEW CONDITION. BALANCE GMU TO 1,400 CFM AND 350 CFM OUTSIDE AIR.
- (8) CLEAN AND RESTORE EXISTING 6.25 TON COOLING CAPACITY GROUND MOUNTED UNIT TO LIKE NEW CONDITION. BALANCE GMU TO 2,500 CFM AND 625 CFM OUTSIDE AIR.
- (9) BALANCE EXISITNG AIR DEVICES SERVING OI I HALLWAY TO 250 CFM SUPPLY AIR.
- (10) WHERE EXISTING EXHAUST FAN SERVING 008 MEN'S RESTROOM IS IN GOOD WORKING OR OR CAN BE SERVICED AND RESTORED TO GOOD WORKING ORDER, BALANCE TO 350 CFM OF EXHAUST AIR, AND REUSE. WHERE EXISTING EXHAUST FAN IS NOT IN GOOD WORKING ORDER AND CANNOT BE REPAIRED TO GOOD WORKING ORDER, PROVIDE NEW EQUIVALENT EXHAUST FAN AND BALANCE TO 350 CFM OF EXHAUST AIR. TIE NEW EXHAUST FAN INTO EXISTING DUCTWORK AND EXTERIOR PENETRATION.

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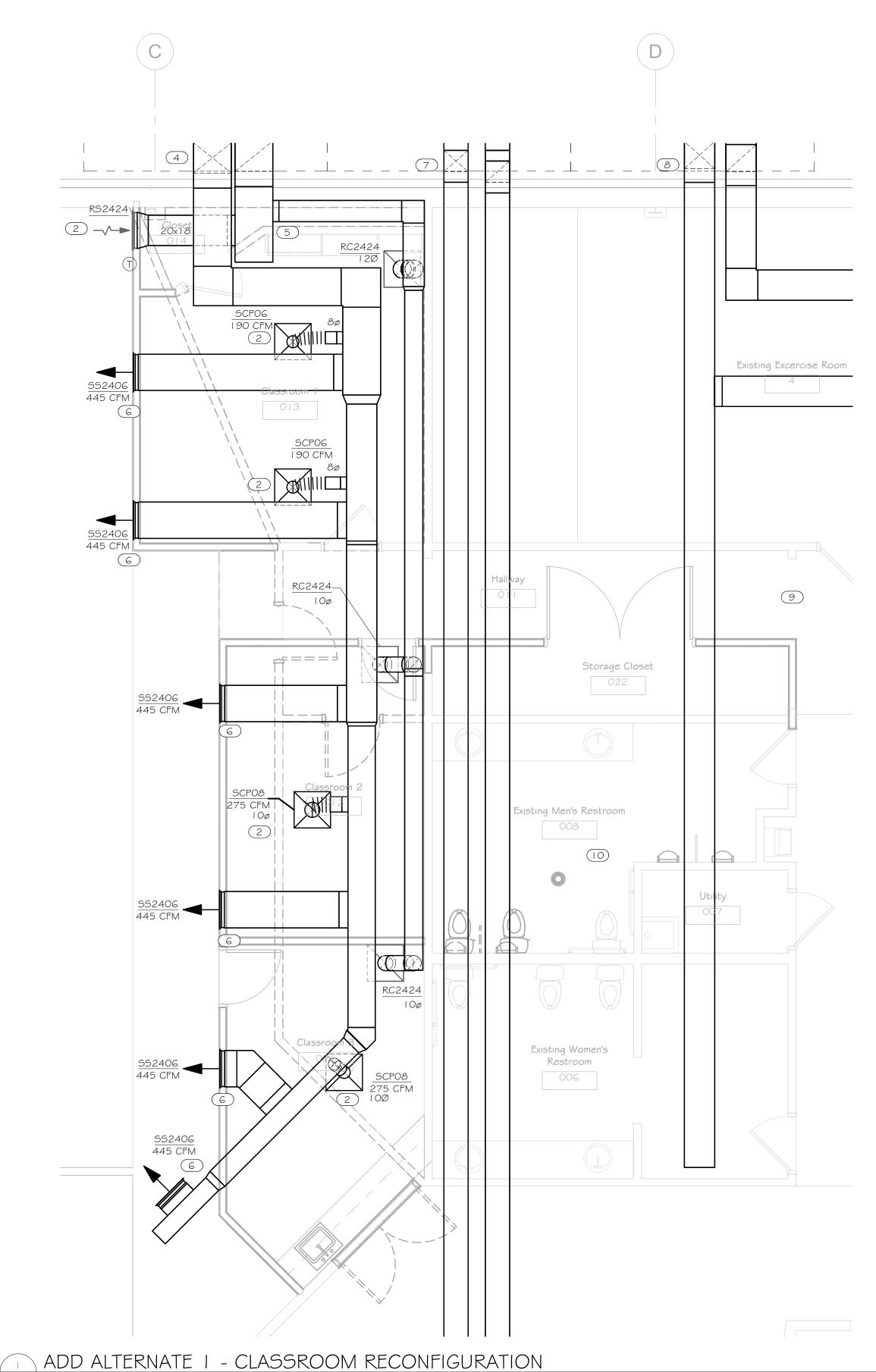
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County 16 Center Drive 37 Anderson Point Senior 96 Mariner F Clinton, Ten **Project Phase:** Construction Documents Issue Date: 02/03/23 Revisions Date No. Descripton 02.14.2023 1 Revision 1

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# ADDITIONAL COST TO THE OWNER. ORDER ORDER.

- FROM EXHAUST TERMINATIONS.

# KEYNOTES

- EXTEND EXISTING SUPPLY TRUNK AS SHOWN. 2 NEW BRANCH DUCT WORK TO BE RUN FROM TRUNK DUCT TO NEW DIFFUSER.
- BE FULL SIZE OF UNIT CONNECTION. (3) 3/4" DOOR UNDERCUT.

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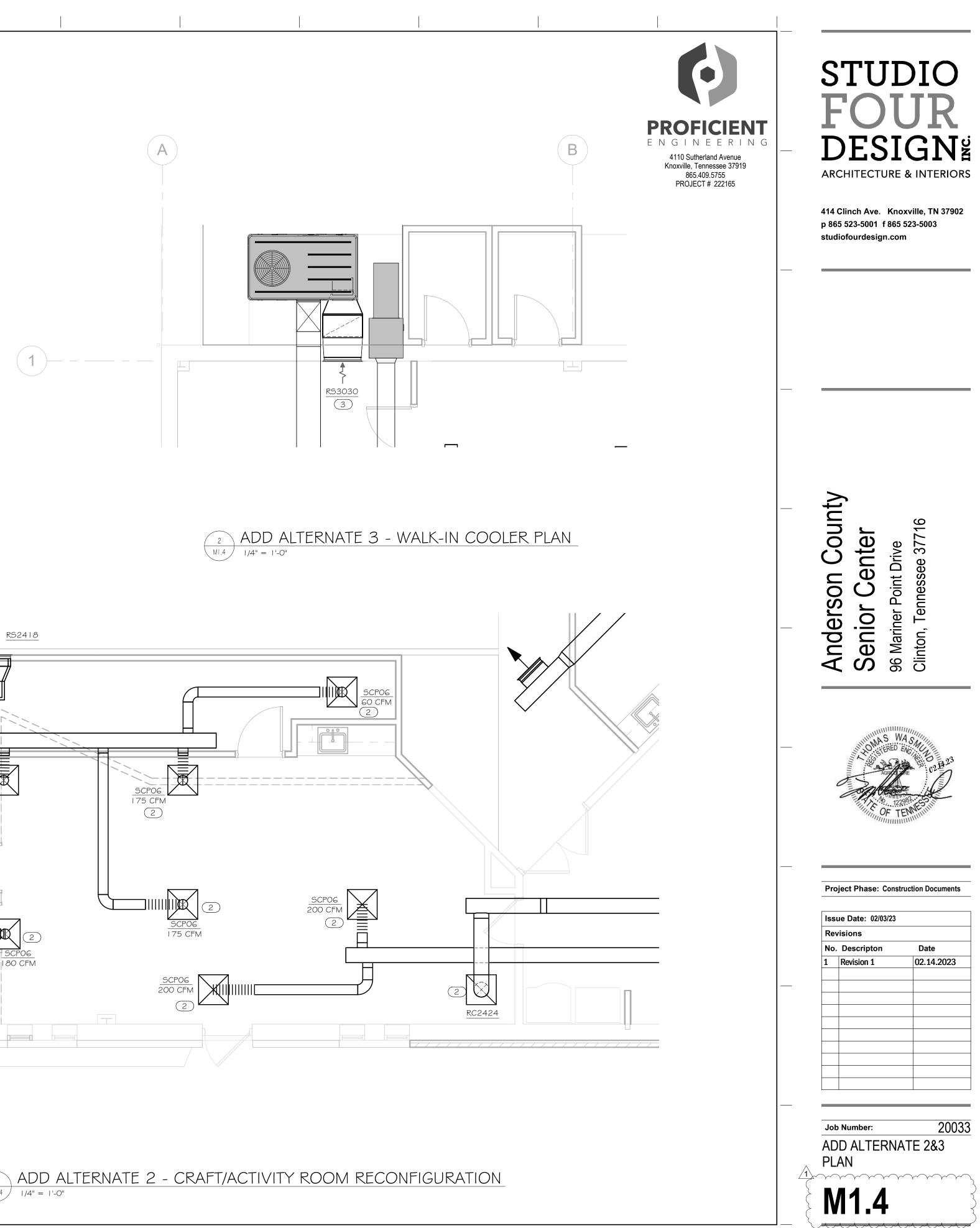
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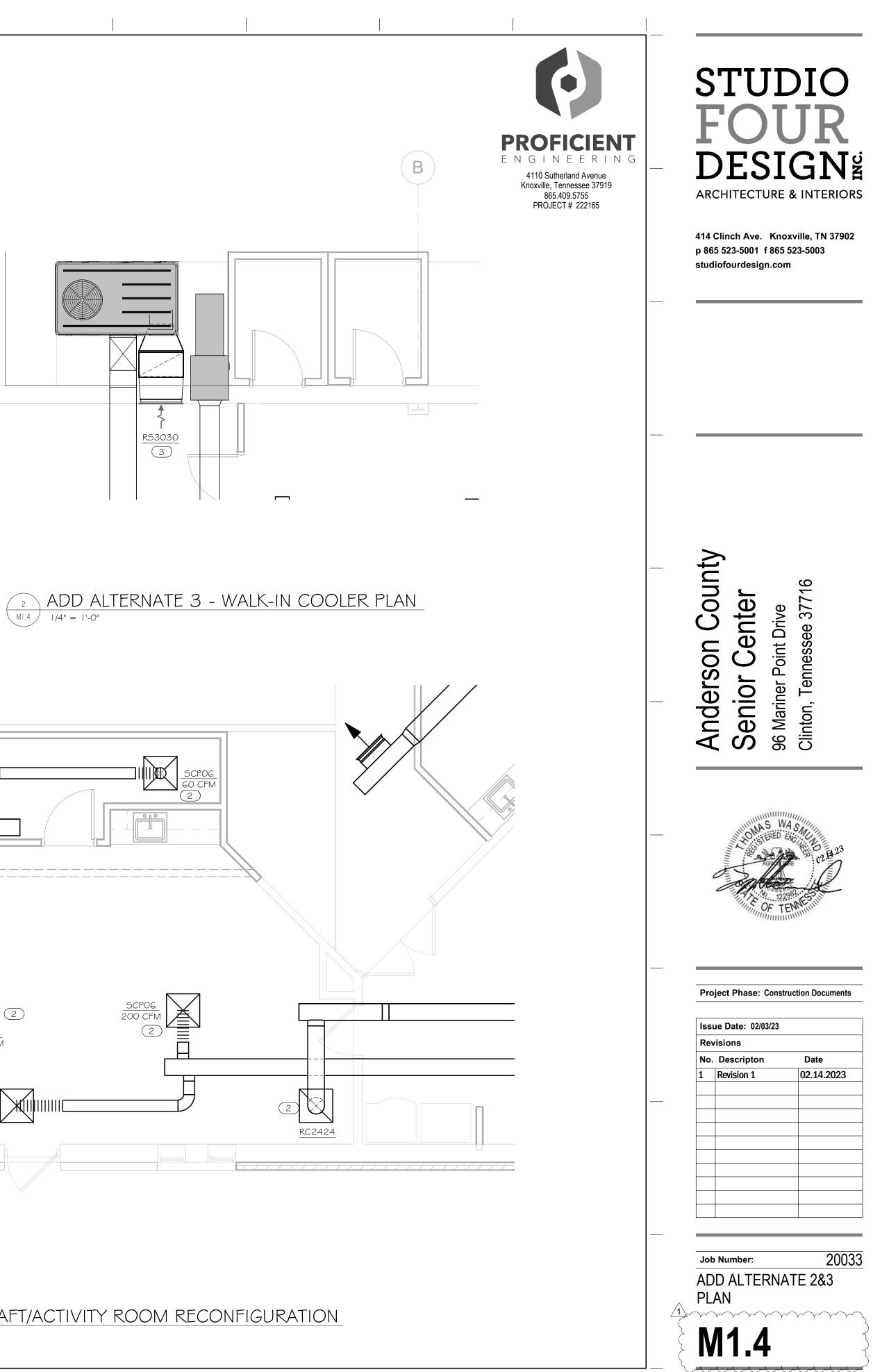
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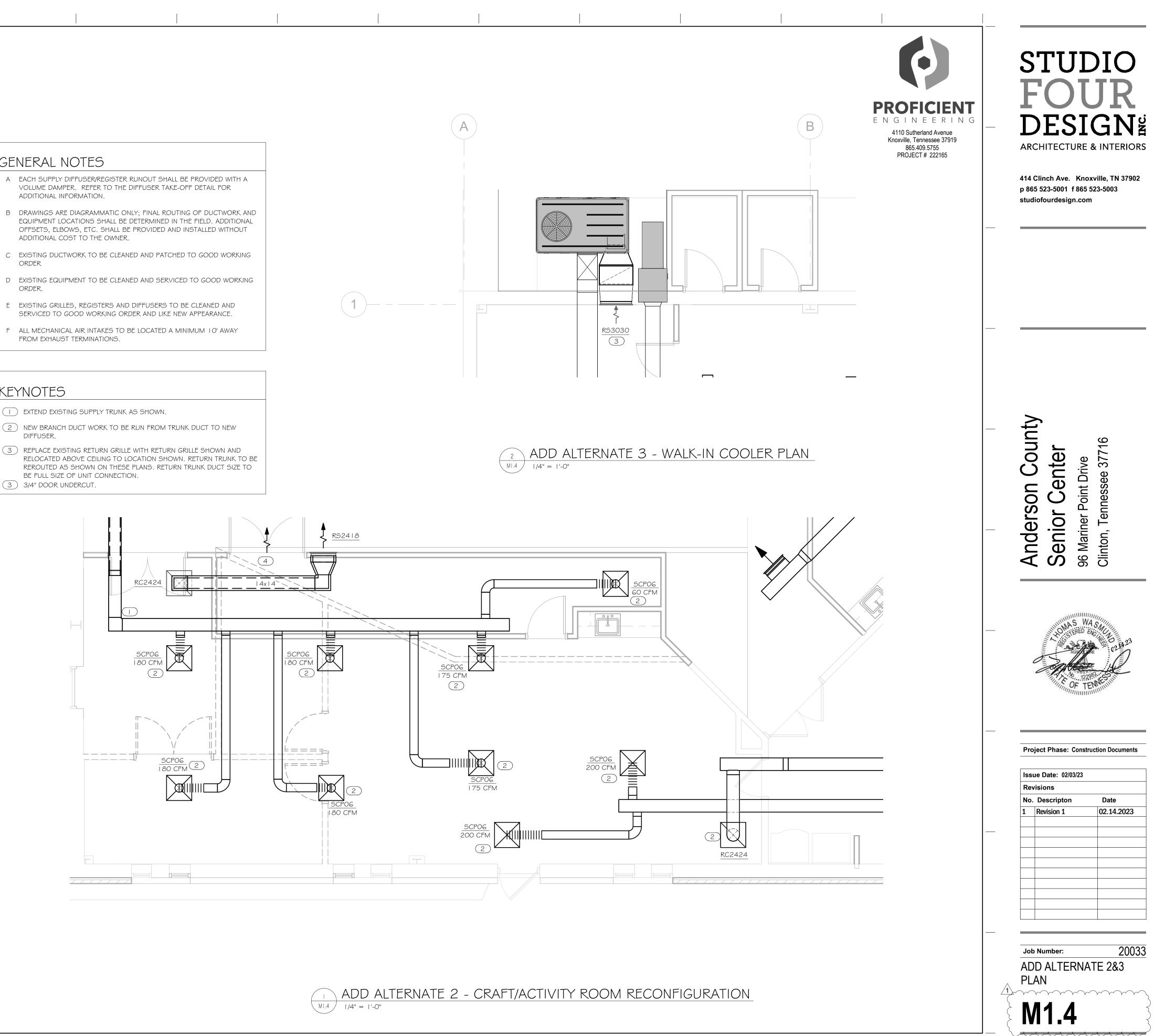
A EACH SUPPLY DIFFUSER/REGISTER RUNOUT SHALL BE PROVIDED WITH A VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OFF DETAIL FOR

EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT

(3) REPLACE EXISTING RETURN GRILLE WITH RETURN GRILLE SHOWN AND REROUTED AS SHOWN ON THESE PLANS. RETURN TRUNK DUCT SIZE TO







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# SPECIFICATIONS

## GENERAL

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 2020, SPECIFICATIONS, UTILITY COMPANY REQUIREMENTS AND ALL INDUSTRY STANDARDS.

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.

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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 OT 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 COSTS.

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	SPECIFICATIONS
CONDUITS AND RACEWAYS:	PANELBOARD
MANUFACTURERS: SQUARE D, B-LINE, ALLIED TUBE & CONDUIT, HOFFMAN, CARLON ELECTRICAL, WIREMOLD.	SUBMITTAL:
OUTDOORS EXPOSED: RIGID STEEL. OUTDOORS CONCEALED ABOVE GROUND: RIGID STEEL.	INCLUDE SCHEDULE OF EACH PANELBOARD WITH ALL DEVICES AND CO AND ELECTRICAL DATA AND WITH RATINGS FOR EACH COMPONENT INC OVERLAY CURVES.
JIDOORS CONCLALLD ADOVE GROUND: NIGID STELL. JIDOORS UNDERGROUND: TYPE EPC-40-PVC JIDOORS CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND MOTOR RIVEN EQUIPMENT): LFMC.	LABELED PER UL #67 AND #50, CONFORM WITH NEMA #250 AND PB1, 70-373.
BOXES AND ENCLOSURES ABOVE GROUND: NEMA 3R UNLESS NOTED OTHERWISE ON PLANS. NDOORS EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE: EMT.	ALL JUNCTION BOXES SHALL BE LABELED WITH PANEL AND CIRCUIT DES
IDOORS EXPOSED NOT SUBJECT TO SEVERE PHYSICAL DAMAGE: EMT. IDOORS EXPOSED SUBJECT TO SEVERE PHYSICAL DAMAGE: RIGID STEEL CONDUIT. IDOORS CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT. IDOORS CONNECTION TO VIBRATING EQUIPMENT: FMC, EXCEPT USE LFMC IN DAMP OR WET	PROVIDE TYPED CIRCUIT DIRECTORY WITH EACH CIRCUIT SERVING DEVISERVING.
DCATIONS. IDOORS DAMP OR WET LOCATIONS: IMC.	APPROVED MANUFACTURERS: GENERAL ELECTRIC
DOORS LOW-VOLTAGE CABLES: EMT.	CUTLER HAMMER SQUARE D SIEMENS
OPPER CONDUCTORS #10 AND SMALLER:	LIGHTING CONTROL
ABELED PER UL 83, TYPE THHN/THWN, SOLID COPPER 600 VOLT INSULATION, UNIFORM COLOR	TIME SWITCHES:
ODED JACKET WITH JACKET DATA. IETAL CLAD (TYPE MC) CABLE WHERE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 330.	SOLID STATE, PROGRAMMABLE, WITH ALPHANUMERIC DISPLAY; COMPL BALLAST LOAD, 120/240VAC.
OPPER CONDUCTORS #8 OR LARGER:	TWO ON-OFF SET POINTS ON A 24-HOUR SCHEDULE AND ANNUAL HO OVERRIDES THE WEEKLY OPERATION ON HOLIDAYS.
OLOR CODED JACKET WITH JACKET DATA.	ALLOW CONNECTION OF A PHOTOELECTRIC RELAY AS SUBSTITUTE FOR PROGRAM
RELLIE DUTHWIRE	BATTERY BACKUP FOR NOT LESS THAN SEVEN DAYS RESERVE TO MAIN
ETNA EPUBLIC EC	TIME CLOCK.
INCORE WIRE ERITE	WALL OR CEILING MOUNTED SOLID-STATE INDOOR OCCUPANCY SENSC POWER PACK
DNTRACTOR MAY USE ALUMINUM CONDUCTORS FOR #4 AWG OR LARGER IN THE PLACE OF DPPER CONDUCTORS. CONTRACTOR SHALL REFER TO NEC TABLE 310-16 FOR EQUIVALENT MPACITY AND SHALL COMPENSATE FOR VOLTAGE DROP.	ADJUSTABLE TIME-DELAY OVER A RANGE OF 1 TO 30 MINUTES.
DLDED CASE CIRCUIT BREAKER:	SENSOR OUTPUT: CONTACTS RATED TO OPERATE THE CONNECTED REI UL773A. SENSOR IS POWERED FROM POWER PACK.
ICLUDE SCHEDULE OF ALL FUSES, RATINGS, TIME COORDINATION DATA, MANUFACTURER'S TANDARD DATA AND TIME-CURRENT CURVES. ALL DATA SHALL BE BASED ON TEST OF TANDARD PRODUCTS.	POWER PACK: DRY CONTACTS RATED FOR 20-A BALLAST LOAD AT 120 AUTOMATIC LIGHT-LEVEL SENSOR: ADJUSTABLE FROM 2 TO 200 FC (2
ROVED MANUFACTURERS:	LIGHTS OFF WHEN SELECTED LIGHTING LEVEL IS PRESENT.
UTLER HAMMER QUARE D IEMENS	ULTRASONIC DETECTION METHOD.
HERMAL-MAGNETIC BOLT-IN TYPE CIRCUIT BREAKERS WITH QUICK-MAKE, QUICK-BREAK ONTACTS; TRIP-FREE OPERATION WITH OVER-THE-CENTER TOGGLE HANDLE OR NON-REMOVABLE ONOLITHIC TIE-HANDLE.	
MULTI-POLE BREAKERS SHALL HAVE INTERNAL COMMON TRIP AND COMMON RESET WITH A BINGLE 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:	
BCHEDULE BY TYPE DESIGNATION ALL LIGHTING FIXTURES, EACH COMPLETE WITH DATA SHEET MITH COMPLETE PHYSICAL, ELECTRICAL AND LIGHTING CHARACTERISTICS, LAMP TYPE AND LAMP DATA.	
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.	

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# GENERAL NOTES

THE DESIGN OF THIS SET OF DOCUMENT IS BASED ON NEC 2017.

ELECTRICAL CONTRACTOR SHALL REFER TO ALL OTHER DESIGN DRAWINGS PRIOR TO BID AND RETAIN FULL UNDERSTANDING OF THE SCOPE OF WORK.

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

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.

COORDINATE THE INSTALLATION OF ALL CEILING MOUNTED DEVICES (FIRE ALARM SYSTEM DEVICES AND SPEAKERS, SOUND SYSTEM SPEAKER, ETC.) TO BE SYMMETRICAL ABOUT LIGHT FIXTURES AND SPRINKLER HEADS. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. TYPICAL.

ALL MOUNTING OF EQUIPMENT IS AS SHOWN UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT THE COLOR/FINISHES OF ALL ELECTRICAL DEVICES, OUTLETS, COVERPLATES AND TRIM.

EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED AHEAD OF ANY SWITCHING DEVICES.

REFER TO MECHANICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS AND QUANTITIES OPERATION SHALL INCLUDE DUAL CONTACT BASE WITH LOCAL EQUIPMENT SHUTDOWN AND FIRE ALARM SIGNAL INITIATION.

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

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 HOME RUNS SHALL RUN PARALLEL TO STRUCTURE AS MUCH AS POSSIBLE WHERE CEILING IS EXPOSED.

ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE FULLY COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE LOCATION OF SAME OCCURS WITHIN FOUR (4) INCHES OF PANEL POINT ON BAR JOISTS.

COORDINATE LOCATION OF ALL FLOOR MOUNTED MECHANICAL AND PLUMBING EQUIPMENT IN ORDER TO VERIFY POWER & CONTROL RACEWAY CONCEALED IN SLABS TERMINATED AT PROPER LOCATION.

DISCONNECT SWITCHES, MOTOR STARTERS AND OTHER ELECTRICAL EQUIPMENT INSTALLED ABOVE ACCESSIBLE CEILINGS, AND REQUIRING ACCESS FOR MAINTENANCE, SHALL BE INSTALLED WITH BOTTOM OF DEVICE ONE (1) FOOT ABOVE CEILING TO PROVIDE READY ACCESSIBILITY.

MECHANICAL, PLUMBING, FIRE PROTECTION AND OTHER EQUIPMENT ARE SHOWN ON FLOOR PLAN IN APPROXIMATE LOCATION. COORDINATE WITH M, P, FP AND CONTRACT DRAWINGS/SUBMITTALS FOR EXACT LOCATION OF EQUIPMENT.

## GENERAL NOTES

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. RACEWAY FOR EXTERIOR LIGHTING MAY BE INDICATED OUTSIDE OF BUILDING FOOTPRINT FOR CLARITY. ROUTE ALL EXTERIOR LIGHTING RACEWAY WITHIN BUILDING STRUCTURE.

POWER AND COMMUNICATIONS/DATA CONDUITS CAN CROSS AT 90°, BUT WHERE PARALLEL, SHALL BE A MINIMUM OF 8" APART.

PROVIDE TVSS FOR FIRE ALARM CONTROL PANEL.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH DIV. 15 CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ELECTRICAL CONNECTIONS IF NECESSARY TO MATCH ACTUAL EQUIPMENT IN FIELD. FOR EXAMPLE, COORDINATE THE NAMEPLATE OVERCURRENT PROTECTION DEVICE RATING OF MECHANICAL EQUIPMENT AMONG MECHANICAL AND ELECTRICAL SUBCONTRACTORS. ADJUST CIRCUIT BREAKER TO MATCH NAMEPLATE RATING OF EQUIPMENT AT NO ADDITIONAL COST.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS FOR ANY SUPPLEMENTAL POWER REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONTROL CIRCUITS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ALL EQUIPMENT TO ITS INTENDED OPERATIONAL STATUS.

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 ASTME 814 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.

LIGHT SWITCHES AND ELECTRICAL OUTLETS, LOCATED IN ROOMS ACCESSIBLE TO THE DISABLED SHALL BE LOCATED NO HIGHER THAN 48 INCHES AND NO LOWER THAN 15 INCHES ABOVE THE FINISHED FLOOR SURFACE. IF THE REACH OR THE CONTROL IS OVER AN OBSTRUCTION, THE MINIMUM HEIGHT SHALL BE REACHED TO 44 INCHES FOR A FORWARD APPROACH OR 46 INCHES FOR A SIDE APPROACH.

CONNECT ALL EXIT SIGNS TO NEAREST UNSWITCHED PORTION OF THE LIGHTING CIRCUIT IN THE AREA.

ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF THE RATED WALL.

SUPPORT ALL VERTICAL RACEWAY PER NEC TABLE 300.19(A).

MAKE ELECTRICAL CONNECTIONS TO ELECTRIC WATER COOLERS FROM GFCI PROTECTED OUTLET IN WALL BEHIND COOLER HOUSING. THE OUTLET AND CORD SHALL NOT BE VISIBLE FROM PUBLIC VIEW.

COORDINATE WITH CUTSHEETS OF ALL EQUIPMENT TO BE INSTALLED AND PROVIDE ADDITIONAL CIRCUITS FOR CONTROLS IF REQUIRED BY MANUFACTURER.

FINAL COLOR, FINISH AND OTHER AESTHETIC PORTIONS OF ALL DEVICES SHALL BE COORDINATED WITH ARCHITECT OR OWNER'S REPRESENTATIVE. THIS SET OF DRAWINGS DOES NOT SUPERCEDE ARCHITECTURAL OR INTERIOR DOCUMENTS.

ALL EXPOSED HORIZONTAL RUNS OF CONDUITS SHALL BE EITHER PARALLEL OR PERPENDICULAR TO EXTERIOR WALLS.

PROVIDE PLENUM RATED CABLES IF THE CABLES ARE EXPOSED AND ROUTED THROUGH PLENUM.

## LEGEND

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SYMBOLS	DESCRIPTION	MOUNTING
φ	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
$\bigoplus$	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
$\bigoplus$	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
₽AC	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR G" ABOVE COUNTER TOP
$\bigcirc$	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	FLUSH WITH FINISHED FLOOR
$\bigcirc$	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	IN CEILING
$\bigcirc$	SPECIAL RECEPTACLE, CONFIGURATION AND ELECTRICAL CHARACTERISTIC AS NOTED ON DWG	18" AFF
$\bigcirc$	JUNCTION BOX FLUSH IN WALL WITH COVER. SIZE PER NEC.	I 8" AFF
J	JUNCTION BOX FLUSH IN CEILING WITH COVER. SIZE PER NEC.	IN CEILING
J	JUNCTION BOX FLUSH IN FINSHED FLOOR WITH COVER. SIZE PER NEC.	FLUSH WITH FINISHED FLOOR
$\bigcirc$	TV OUTLET	SAME HEIGHT AS ADJACENT POWER OUTLET
$\mathbf{\Lambda}$	TELEPHONE / DATA COMBINATION OUTLET	18" AFF
$\overline{\mathbf{A}}$	TELEPHONE / DATA COMBINATION OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
05	SWITCH - CEILING MOUNTED OCCUPANCY SENSOR	IN CEILING
$\mathbb{D}/\mathbb{D}$ -	SMOKE DETECTOR. CEILING / WALL MOUNTED	CEILING / 80" AFF
07-/0R-	INFRARED BEAM SMOKE DETECTOR. TRANSMITTER/RECEIVER.	80" AFF
(H)/(H)-	HEAT DETECTOR. CEILING/WALL MOUNTED	CEILING / 80" AFF
FS	FLOW SWITCH	
TS	TAMPER SWITCH	
	FIRE ALARM NOTIFICATION DEVICE. AUDIO AND VISUAL.	80" AFF
$\bigotimes$	FIRE ALARM NOTIFICATION DEVICE. AUDIO.	80" AFF
¤	FIRE ALARM NOTIFICATION DEVICE. VISUAL.	80" AFF
$\boxtimes$	FIRE ALARM INITIATION DEVICE. PULL STATION.	42" AFF
\$	SWITCH	42" AFF
3	SWITCH - 3 WAY	42" AFF
¢	SWITCH - BUILT IN OCCUPANCY SENSOR	42" AFF
	DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE	AS INDICATED ON DWO
	ELECTRICAL PANELBOARD. REFER TO PANELBOARD SCHEDULE.	SURFACE MOUNTED ON WALL
XX-#	HOME RUN WITH WIRE TICKS. XX - PANEL DESIGNATION, # - CIRCUIT DESIGNATION. WIRE TICKS - (1) NEUTRAL  , (3) HOT III & (1) GROUND •	

ABBRE	/IATIONS		
AC	6" ABOVE COUNTER SPACE OR 42" AFF	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MTD	MOUNTED
AL	ALUMINUM	Ν	NEUTRAL
BKR	BREAKER	NL	NIGHT LIGHT
CND	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CONN	CONNECTED OR CONNECTION	PNL	PANEL
СТВ	CABLE TV TERMINAL BACKBOARD	RECPT	RECEPTACLE
CU	COPPER	TEL	TELEPHONE
DN	DOWN	TTB	TELEPHONE TERMINAL BOARD
ELEC	ELECTRICAL	TV	TELEVISION
FACP	FIRE ALARM CONTROL PANEL	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
FAA	FIRE ALARM ANNUNCIATOR PANEL	TYP	TYPICAL
G OR GRND	GROUND	UG	UNDERGROUND
GFCI OR GF	GROUND FAULT CIRCUIT	WP	WEATHERPROOF





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## Project Phase: Construction Documents

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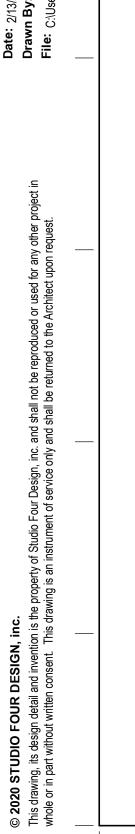
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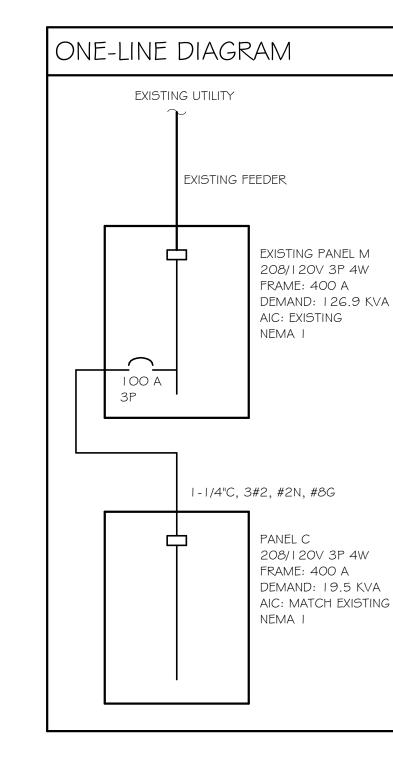
			LUM	INAIRE	ESC	HED	UL	E		
	CALLOUT	LAMP	DES	CRIPTION				MODEL		VOLTS
	A	(1) 40W LED	2x4 LED REG	CESSED TRO	OFFER	COLUN	ЛВIА	LIGHTING	CBT24-LS35	120V IP 2W
	В	(1) 40W LED	4' LINE	EAR FIXTURE	-		TO	BE DETERN	MINED	120V IP 2W
		(-	ENERAL	SCHE	EDUL	E				
	EQUIPMENT N	AME	VOLTS/PHASE-	DEMAND	BREA	KER	С	IRCUIT	DISCONNECT	DESCRIPTION
эΤ	ANTANEOUS WA	TER HEATER	208 V/2-4 I	OO VA	30,	/2	C-	-18,20	30A/2P	NEMA I
	KITCHI	EN EQU	IPMENT	SCHE	DUL	Ē				
N	1E	VOLTS/PHA	SE-DEMAND	BREAKE	R	CIRCUIT		DISC	CONNECT DESC	CRIPTION
//	DOUBLE OVEN	120 V/	I-180 VA	20 A		B-4			GAS IGNITE	R
		120 V/I	-1400 VA	20 A		B-9		ST	ANDARD RECEI	PTACLE
		120 V/1	-1200 VA	20 A		B-7		ST	ANDARD RECEI	PTACLE

					LUIVI						
		F	CALLOUT	LAMP	DES	CRIPTION			MODEL		VOLTS
			A	(1) 40W LED	2x4 LED REC	CESSED TROP	FER	COLUMBI	A LIGHTING	CBT24-LS35	120V IP 2W
			В	(1) 40W LED	4' LINE	EAR FIXTURE		TC	BE DETERN	AINED	120V IP 2W
		_									
[											]
				G	ENERAL	SCHE	DULI	F			
	CALLOUT		EQUIPMENT N		VOLTS/PHASE-		BREAK	FP (			DESCRIPTION
-											
L	IWH-1	INST	ANTANEOUS WA		208 V/2-4 I	UU VA	30/2	2 0	2-18,20	30A/2P,	INEIMA I
			KITOU					-			
			KIICH	EN EQU	IPMENT	SCHEL	JULE	-			
	EQUIPMEN	T NAM	E	VOLTS/PHA	SE-DEMAND	BREAKER	0	CIRCUIT	DISC	CONNECT DESC	CRIPTION
MME	RCIAL GAS RAN	GE W/	DOUBLE OVEN	120 V/	I-180 VA	20 A		B-4		GAS IGNITE	R
	ICE MA	KER		120 V/1	-1400 VA	20 A		B-9	ST	ANDARD RECEN	PTACLE
	FREEZ	ZER.		120 V/1	-1200 VA	20 A		B-7	ST	ANDARD RECEN	PTACLE

	KITCHE	EN EQUIPMENT	SCHED	ULE	
CALLOU	T EQUIPMENT NAME	VOLTS/PHASE-DEMAND	BREAKER	CIRCUIT	DISCONNECT DESCRIPTION
KI	COMMERCIAL GAS RANGE W/ DOUBLE OVEN	120 V/1-180 VA	20 A	B-4	GAS IGNITER
К4	ICE MAKER	120 V/1-1400 VA	20 A	B-9	STANDARD RECEPTACLE
K5	FREEZER	120 V/1-1200 VA	20 A	B-7	STANDARD RECEPTACLE
KG	FREEZER	120 V/1-1200 VA	20 A	B-11	STANDARD RECEPTACLE
KG	FREEZER	120 V/1-1200 VA	20 A	B-17	STANDARD RECEPTACLE
K7	REFRIGERATOR	120 V/1-1200 VA	20 A	B-30	STANDARD RECEPTACLE
K8	FREEZER	120 V/1-1200 VA	20 A	B-3	STANDARD RECEPTACLE
× ·····K8··	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~20A~	B15	STANDARD RECEPTACLE
KEF	KITCHEN EXHAUST FAN	208 V/3-1 I 70 VA	20 A	B-18,20,22	30A/3P/NEMA 3R
MAU	MAKE UP AIR UNIT	208 V/3-864 VA	20 A	B-19,21,23	30A/3P/NEMA 3R
MANA AND	Walkin edoler evaporator	~~208 V13-750 VA~~~	MZOAN	1 \$-6,8,10	JUN 30A/3PANEMA MAN
WIB	WALK-IN COOLER CONDENSER	208 V/3-1 I 20 VA	20 A	B-12,14,16	30A/3P/NEMA 3R
W2A	WALK-IN FREEZER EVAPORATOR	208 V/3-750 VA	20 A	B-24,26,28	30A/3P/NEMA I
W2B	WALK-IN FREEZER CONDENSER	208 V/3-1 I 20 VA	20 A	B-25,27,29	30A/3P/NEMA 3R

I       Lighting       1/2"C, 1#12,#12N,#12G       20 A       1       0.3       0.3       0.3       1       20 A       1/2"C, 1#12,#12N,#12G       Lighting         3       Receptacle       1/2"C, 1#12,#12N,#12G       20 A       1       0.9       1.2       1       20 A       1/2"C, 1#12,#12N,#12G       Ex. Vending Machine         5       Receptacle       1/2"C, 1#12,#12N,#12G       20 A       1       0.9       1.2       1       20 A       1/2"C, 1#12,#12N,#12G       Ex. Vending Machine         7       Lighting       1/2"C, 1#12,#12N,#12G       20 A       1       0.5       0.5       1       20 A       1/2"C, 1#12,#12N,#12G       Receptacle       1/2"C, 1#12,#12N,#12G <th></th> <th>Panal</th> <th>. (</th> <th></th>		Panal	. (													
1         Lighting         1/2°C, 1#12,#12N,#12G         20 A         1         0.3         0.3         0.9         1.2         1         20 A         1/2°C, 1#12,#12N,#12G         Eventing Machine           3         Receptacle         1/2°C, 1#12,#12N,#12G         20 A         1         0.9         1.2         1         1         20 A         1/2°C, 1#12,#12N,#12G         Ev. Vending Machine           7         Lighting         1/2°C, 1#12,#12N,#12G         20 A         1         0.5         0.5         1         1         20 A         1/2°C, 1#12,#12N,#12G         Ev. Vending Machine           9         Receptacle         1/2°C, 1#12,#12N,#12G         20 A         1         0.5         0.5         1         1         20 A         1/2°C, 1#12,#12N,#12G         Evecptacle         Receptacle         1         20 A         1/2°C, 1#12,#12N,#12G         Receptacle         Receptacle         Receptacle         1         20 A         1/2°C, 1#12,#12N,#12G         Receptacle         Receptacle         1         20 A         1/2°C, 1#12,#12N,#12G         Receptacle         1         20 A         1/2°C, 1#12,#12N,#12G         Receptacle         1         20 A         1/2°C, 1#12,#12N,#12G         Receptacle         1         20 A         1         20 A         1/2°C		Supply From	: M				PI	hases:	3	08 Wya	0)			Mains Type: M	LO	
3         Receptacle         1/2°C, 1#12,#12N,#12G         20A         1         0.9         1.2         1         1         20A         1/2°C, 1#12,#12N,#12G         Ex. Vending Machine           5         Receptacle         1/2°C, 1#12,#12N,#12G         20A         1         1         1.0         1         20A         1/2°C, 1#12,#12N,#12G         Ex. Room OI 5 Ligs.           7         Lighting         1/2°C, 1#12,#12N,#12G         20A         1         0.4         0.9         1         20A         1/2°C, 1#12,#12N,#12G         Receptacle           9         Receptacle         1/2°C, 1#12,#12N,#12G         20A         1         0.4         0.9         1         20A         1/2°C, 1#12,#12N,#12G         Receptacle           11         Borsting Receptacle         1/2°C, 1#12,#12N,#12G         20A         1         0.4         0.9         0.4         0.7         1         20A         1/2°C, 1#12,#12N,#12G         Receptacle           15         Walk-In Accessiones         1/2°C, 1#12,#12N,#12G         20A         1         1.2         2.1         2         30A         1/2°C, 2#10,#12N,#12G         Receptacle           17         Walk-In Accessiones         1/2°C, 1#12,#12N,#12G         20A         1         20A         1/2°C,	СКТ	Circuit Description	Wire Size	Trip	Pole	/	4		3	(	С	Pole	Trip	Wire Size	Circuit Description	СКТ
3         Receptacle         1/2°C, 1#12, #12N, #12G         20A         1         0.9         1.2         1         1         20A         1/2°C, 1#12, #12N, #12G         5x. Norm OIS Ligs.           5         Receptacle         1/2°C, 1#12, #12N, #12G         20A         1         0         1         1         1         1         1         20A         1/2°C, 1#12, #12N, #12G         5x. Room OIS Ligs.           7         Lighting         1/2°C, 1#12, #12N, #12G         20A         1         0         0.4         0.9         1         20A         1/2°C, 1#12, #12N, #12G         Receptacle           11         Receptacle         1/2°C, 1#12, #12N, #12G         20A         1         0         0.4         0.9         1         20A         1/2°C, 1#12, #12N, #12G         Receptacle           13         Ewsting Receptacle         1/2°C, 1#12, #12N, #12G         20A         1         0         0.4         0.7         1         20A         1/2°C, 1#12, #12N, #12G         Receptacle           15         Walk-In Accessones         1/2°C, 1#12, #12N, #12G         20A         1         20A         1/2°C, 1#12, #12N, #12G         Receptacle         1         20A         1/2°C, 1#12, #12N, #12G         Receptacle         1         20A         1/2°	1	Lighting	/2"C, # 2,# 2N,# 2G	20 A	1	0.3	0.3					1	20 A	1/2"C,1#12,#12N,#12G	Lighting	2
5       Receptacle       1/2*C,1#12,#12N,#12G       20 A       1       0       1       1.0       1       2.0 A       1/2*C,1#12,#12N,#12G       Excomolisities         7       Lighting       1/2*C,1#12,#12N,#12G       20 A       1       0.5       0.5       0       1       20 A       1/2*C,1#12,#12N,#12G       Receptacle       1       1       20 A       1/2*C,1#12,#12N,#12G       Receptacle       1       1       20 A <t< td=""><td>3</td><td>Receptacle</td><td> /2"C, # 2,# 2N,# 2G</td><td>20 A</td><td>1</td><td></td><td></td><td>0.9</td><td>1.2</td><td></td><td></td><td>1</td><td>20 A</td><td> /2"C, # 2,# 2N,# 2G</td><td>Ex. Vending Machine</td><td>4</td></t<>	3	Receptacle	/2"C, # 2,# 2N,# 2G	20 A	1			0.9	1.2			1	20 A	/2"C, # 2,# 2N,# 2G	Ex. Vending Machine	4
9       Receptacle       1/2*C, 1#12,#12N,#12G       20 A       1       20 A       1/2*C, 1#12,#12N,#12G       Receptacle       1/2*C, 1#12,#12N,#12G       Receptacle         11       Receptacle       1/2*C, 1#12,#12N,#12G       20 A       1       0.4       0.9       1       20 A       1/2*C, 1#12,#12N,#12G       Receptacle       1         13       Existing Receptacle       1/2*C, 1#12,#12N,#12G       20 A       1       0.4       0.9       1       20 A       1/2*C, 1#12,#12N,#12G       Receptacle       1         13       Existing Receptacle       1/2*C, 1#12,#12N,#12G       20 A       1       0.4       0.9       1       20 A       1/2*C, 1#12,#12N,#12G       Receptacle         14       Walk-In Accessiones       1/2*C, 1#12,#12N,#12G       20 A       1       1.2       1.2       1.2       2.1       2       30 A       1/2*C, 2#10,#10N,#10G       IWH-1       1         19       Ex. Vending Machine       1/2*C, 1#12,#12N,#12G       20 A       1       0.0       0.0       1       20 A       1/2*C, 2#10,#10N,#10G       IWH-1       1       1       1       2       30 A       1/2*C, 2#10,#10N,#10G       IWH-1       1       2       30 A       1/2*C, 2#10,#10N,#10G       IWH-1       1 <td>5</td> <td>Receptacle</td> <td></td> <td>20 A</td> <td>   </td> <td></td> <td></td> <td></td> <td></td> <td>1.1</td> <td>1.0</td> <td>   </td> <td>20 A</td> <td></td> <td>° °</td> <td>6</td>	5	Receptacle		20 A						1.1	1.0		20 A		° °	6
III       Receptacle       I/2*C,1#12,#12M,#12G       20A       I       0       0       0.4       0.7       I       20A       I/2*C,1#12,#12M,#12G       Receptacle       Receptacle         13       Existing Receptacle       I/2*C,1#12,#12M,#12G       20A       I       0.4       0.9       I       1       20A       I/2*C,1#12,#12M,#12G       Receptacle       Receptacle         15       Walk-In Accessiones       I/2*C,1#12,#12M,#12G       20A       I       I       I       2       I       20A       I/2*C,1#12,#12M,#12G       Receptacle       I         19       Ex. Vending Machine       I/2*C,1#12,#12M,#12G       20A       I       I       0.0       0.0       I       20A       I/2*C,2#10,#10N,#10G       IWH-I       I         21       Spare        20A       I       I       0.0       0.0       I       20A        Spare       I       Spare       I       20A        Spare       I       Spar	7	Lighting	/2"C, # 2,# 2N,# 2G	20 A		0.5	0.5					1	20 A	/2"C, # 2,# 2N,# 2G	Receptacle	8
13       Existing Receptacle       1/2*C, 1#12,#12N,#12G       20 A       1       0.4       0.9       1       1       20 A       1/2*C, 1#12,#12N,#12G       Receptacle         15       Walk-In Accessones       1/2*C, 1#12,#12N,#12G       20 A       1       1.2	9	Receptacle	/2"C, # 2,# 2N,# 2G	20 A	1			0.4	0.9			1	20 A	/2"C, # 2,# 2N,# 2G	Receptacle	10
15       Walk-In Accessiones       1/2''C, [# 12, # 12N, # 12G       20 A       1		Receptacle	/2"C, # 2,# 2N,# 2G	20 A	1					0.4	0.7		20 A	/2"C, # 2,# 2N,# 2G	Receptacle	12
17       Walk-In Accessones       1/2*C, 1#12,#12N, #12G       20A       1       Image: Strategy of the strategy o	13	Existing Receptacle	/2"C, # 2,# 2N,# 2G	20 A		0.4	0.9					1	20 A	/2"C, # 2,# 2N,# 2G	Receptacle	14
19       Ex. Vending Machine       1/2*C, 1#12, #120, #126       20 A       1       1.2       2.1       0       0       0       1       20 A	15	Walk-In Accessories	/2"C, # 2,# 2N,# 2G	20 A				1.2								16
19       Ex. Vending Machine       1/2"C, 1#12,#120, 20 A       1       1.2       2.1       0       0       0       0       1       20 A       1       20 A       1       1.2       2.1       0       0       0       1       20 A       1       20 A       1       20 A       0       0       0       1       20 A        Spare       3         23       Spare        20 A       1       0.0       0.0       0       1       20 A        Spare       3         25       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         29       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         31       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         33       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3       33       Spare	17	Walk-In Accessories	/2"C, # 2,# 2N,# 2G	20 A	1					1.2	2.1	2	20 4			18
23       Spare        20 A       1       0       0       0.0       0.0       1       20 A        Spare       1         25       Spare        20 A       1       0.0       0.0       0.0       0.0       1       20 A        Spare       1       3       Spare        Spare       1       3       0.0       0.0       1       20 A        Spare       1       3       3       Spare        Spare       1       20 A       1       20 A        Spare       1       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       4       5	19	Ex. Vending Machine	/2"C, # 2,# 2N,# 2G	20 A	1	1.2	2.1						30 A	1/2°C,2#10,#10N,#10G		20
25       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       1       20 A       1       0.0       0.0       0.0       1       20 A        Spare       1       20 A       1       0.0       0.0       0.0       1       20 A        Spare       1       3       Spare        Spare       1       20 A        Spare       1       3       Spare        Spare       1       20 A        Spare       3       Spare        Spare       1       20 A        Spare       3       Spare        Spare       1       20 A       1       20 A        Spare       3       Spare        Spare       1       20 A        Spare       3       Spare        Spare       1       20 A        Spare       3       Spare <td>21</td> <td>Spare</td> <td></td> <td>20 A</td> <td>1</td> <td></td> <td></td> <td>0.0</td> <td>0.0</td> <td></td> <td></td> <td>   </td> <td>20 A</td> <td></td> <td>Spare</td> <td>22</td>	21	Spare		20 A	1			0.0	0.0				20 A		Spare	22
27       Spare        20 A       I       I       0.0       0.0       I       20 A        Spare	23	Spare		20 A	I					0.0	0.0		20 A		Spare	24
29       Spare        20 A       1       0       0       0.0       0.0       1       20 A        Spare       5         31       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         33       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         35       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         37       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         39       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         41       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3       38 A       55 A       Total connected load: 17126 VA       Total connected load: 17126 VA       Total connected load: 17126 VA       <	25	Spare		20 A		0.0	0.0						20 A		Spare	26
31       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         33       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         35       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         37       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3       Spare       3       Spare        Spare        Spare        Spare       3       Spare	27	Spare		20 A	1			0.0	0.0				20 A		Spare	28
33       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         35       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         37       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         39       Spare        20 A       1       0.0       0.0       0.0       0.0       1       20 A        Spare       3         41       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3         41       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       3       3       55 A         41       Spare        20 A       17126 VA       Total connected load: 17126 VA       Total Demand Load: 19278 VA       Spare       3       3       55 A       3       3       4517 VA       5646 VA       3       5646 VA	29	Spare		20 A	1					0.0	0.0		20 A		Spare	30
35       Spare        20 A       I       I       I       0.0       0.0       I       20 A        Spare       5pare       37         37       Spare        20 A       I       0.0       0.0       I       20 A        Spare       39         39       Spare        20 A       I       0.0       0.0       0.0       I       20 A        Spare       39         41       Spare        20 A       I       0.0       0.0       0.0       I       20 A        Spare       39         41       Spare        20 A       I       0.0       0.0       0.0       I       20 A        Spare       39         41       Spare        20 A       I       0.0       0.0       0.0       I       20 A        Spare       39         41       Spare        20 A       I       0.0       0.0       0.0       0.0       I       20 A        Spare       38 A       55 A         Total connected load:       17126 VA       Total connected current: 48 A       Tot	31	Spare		20 A	1	0.0	0.0					-	20 A		Spare	32
37       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       :         39       Spare        20 A       1       0.0       0.0       0.0       0.0       1       20 A        Spare       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :	33	Spare		20 A	1			0.0	0.0			-	20 A		Spare	34
39       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       4         41       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       4         41       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       4         41       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       4         41       Spare        20 A       1       0.0       0.0       0.0       1       20 A        Spare       4         Total connected load by phase:       53 A       38 A       55 A        Total connected load:       17126 VA       Total Demand Load:       19278 VA        Total connected current:       48 A         Load Classification       Demand Factor       Connected Current       Connected Load (VA)       Estimated Demand (VA)         Lighting       125.00%       13 A       4517 VA       5646 VA       8520 VA       8520 VA	35	Spare		20 A	I					0.0	0.0	-	20 A		Spare	36
41       Spare        20 A       I       0.0       0.0       I       20 A        Spare       A         Total connected amps by phase: 53 A       38 A       55 A         Total connected load by phase: 6163 VA       4560 VA       6410 VA         Total connected load by phase: 6163 VA       4560 VA       6410 VA         Total connected load: 17126 VA       Total Demand Load: 19278 VA         Total connected current: 48 A         Load Classification       Demand Factor       Connected Current       Connected Load (VA)       Estimated Demand (VA)         Lighting       125.00%       13 A       4517 VA       5646 VA         Receptacle       100.00%       24 A       8520 VA       8520 VA	37	Spare		20 A	1	0.0	0.0					-	20 A		Spare	38
Total connected amps by phase: 53 A       38 A       55 A         Total connected load by phase: 6163 VA       4560 VA       6410 VA         Total connected load: 17126 VA       Total Demand Load: 19278 VA         Total connected current: 48 A       Total connected current: 48 A         Load Classification       Demand Factor       Connected Current       Connected Load (VA)       Estimated Demand (VA)         Lighting       125.00%       13 A       4517 VA       5646 VA         Receptacle       100.00%       24 A       8520 VA       8520 VA	39	Spare		20 A				0.0	0.0			1	20 A		Spare	40
Total connected load by phase: 6163 VA4560 VA6410 VATotal connected load: 17126 VATotal connected load: 17126 VATotal connected current: 48 ADemand FactorConnected CurrentConnected Load (VA)Load ClassificationDemand FactorConnected CurrentALighting125.00%13 A4517 VA5646 VAReceptacle100.00%24 A8520 VA8520 VA	41	Spare		20 A	1					0.0	0.0		20 A		Spare	42
Total connected load: 17126 VATotal Demand Load: 19278 VATotal connected current: 48 ALoad ClassificationDemand FactorConnected CurrentConnected Load (VA)Estimated Demand (VA)Lighting125.00%13 A4517 VA5646 VAReceptacle100.00%24 A8520 VA8520 VA		I - I	Total connected am	ps by p	hase:	53 A	1	38 A	•	55 A						
Total connected current: 48 ALoad ClassificationDemand FactorConnected CurrentConnected Load (VA)Estimated Demand (VA)Lighting125.00%13 A4517 VA5646 VAReceptacle100.00%24 A8520 VA8520 VA			Total connected loa	ad by p	hase:	6163	VA	4560	VA	6410	VA					
Load ClassificationDemand FactorConnected CurrentConnected Load (VA)Estimated Demand (VA)Lighting125.00%13 A4517 VA5646 VAReceptacle100.00%24 A8520 VA8520 VA			Total con	nected	load:	17120	G VA				Total D	emana	d Load:	19278 VA		
Lighting         I 25.00%         I 3 A         4517 VA         5646 VA           Receptacle         I 00.00%         24 A         8520 VA         8520 VA			Total connec	cted cur	rent:	48 A										
Receptacle         I 00.00%         24 A         8520 VA         8520 VA	L	oad Classification	Demand Factor		Cor	inected	l Currei	nt	Со	nnected	d Load	(VA)	Es	stimated Demand (VA)		
		Lighting	125.00%			13	A			451	7 VA			5646 VA		
Continuous       I 25.00%       I I A       4 100 VA       5 1 25 VA         Image: Continuous       Image: Continuous       Image: Continuous       Image: Continuous         Image: Continuous       Image: Continuous <t< td=""><td></td><td>Receptacle</td><td>100.00%</td><td></td><td></td><td>24</td><td>A</td><td></td><td></td><td>852</td><td>20 VA</td><td></td><td></td><td>8520 VA</td><td></td><td></td></t<>		Receptacle	100.00%			24	A			852	20 VA			8520 VA		
Image: Constraint of the second sec		Continuous	125.00%				A			410				5125 VA		





ပ ပ	Lam/Do	
Drawn By: CL	File: C:\Users\ChrisLam\Do	

l **By**: AT \222165 A

78	Wve	

# Existing Panel: M

Supply From: Enclosure: Type |

Volts: | 20/208 Wye Phases: 3 Wires: 4

CKT	Circuit Description	Wire Size	Trip	Pole	/	A	1	В		С	Pole	Trip	Wire Size	Circuit Description	CKT
I					6.2	0.0					1	20 A		Spare	2
3	Panel C	- /2"C,3# ,# N,#8G	100 A	3			4.6	0.0			1	20 A		Spare	4
5									6.4	0.0	1	20 A		Spare	6
7					5.0	5.0									8
9	Existing	- /4"C,3#4,#4N,# 0G	60 A	3			5.0	5.0			3	60 A	- /4"C,3#4,#4N,# 0G	Existing	10
									5.0	5.0					12
13					5.0	5.0									14
15	Existing	- /4"C,3#4,#4N,# 0G	60 A	3			5.0	5.0			3	60 A	- /4"C,3#4,#4N,# 0G	Existing	16
17									5.0	5.0	1				18
19	Existing	/2"C, # 2,# 2N,# 2G	20 A	1	0.6	10.0									20
21	Existing	/2"C, # 2,# 2N,# 2G	20 A	1			0.6	10.7			3	100 A	- /2"C,3# ,# N,#8G	Existing Panel B	22
23	Existing	/2"C, # 2,# 2N,# 2G	20 A	1					0.6	6.7	1				24
25	Existing	/2"C, # 2,# 2N,# 2G	20 A	1	0.6	0.6					1	20 A	/2"C, # 2,# 2N,# 2G	Existing	26
27	Existing	/2"C, # 2,# 2N,# 2G	20 A	1			0.6	0.6			1	20 A	/2"C, # 2,# 2N,# 2G	Existing	28
29	Existing	/2"C, # 2,# 2N,# 2G	20 A	1					0.6	0.6	1	20 A	/2"C, # 2,# 2N,# 2G	Existing	30
31	Existing	/2"C, # 2,# 2N,# 2G	20 A	1	0.6	0.6					1	20 A	/2"C, # 2,# 2N,# 2G	Existing	32
33	Existing	/2"C, # 2,# 2N,# 2G	20 A	1			0.6	0.6			1	20 A	/2"C, # 2,# 2N,# 2G	Existing	34
35	Existing	/2"C, # 2,# 2N,# 2G	20 A	1					0.6	0.6	1	20 A	/2"C, # 2,# 2N,# 2G	Existing	36
37					9.0	0.0					1	20 A		Spare	38
39	Existing Panel A	- /2"C,3# ,# N,#8G	100 A	3			9.9	0.0			1	20 A		Spare	40
41									7.5	0.0	1	20 A		Spare	42
		Total connected am	ps by p	hase:	407 A	\ \	407 A	4	364 /	λ					1
		Total connected lo	1 3 1				4815	7 VA	4363	7 VA					
		Total con	• 1							Total D	eman	d Load:	126797 VA		
		Total connec	cted cur	rent:	388 A	4									
L	oad Classification	Demand Factor		Con	necteo	Curre	nt	Со	nnecte	d Load	(VA)	Es	timated Demand (VA)		
	Heating	100.00%			179	A				00 VA			64500 VA		
	Lighting	125.00%			20	A			711	I VA			8889 VA		
	Receptacle	63.28%			105	A			376	60 VA			23830 VA		
	Continuous	125.00%			45	A			161	00 VA			20125 VA		
ķ	Atchen Equipment	65.00%			40	A			145	60 VA			9464 VA		
	۴ ۱														

ſ	_	- ·										
	E	Existing Panel	: B									
		Supply From	1: M					Volts:	120/2	08 Wye	0	
		Enclosure					Р	hases:	3			
								Wires:	4			
	CKT	Circuit Description	Wire Size	Trip	Pole	A	4	l t	В	(	С	Pole
ĺ	Ι	Receptacle	/2"C, # 2,# 2N,# 2G	20	A I	0.9						1
	3	K8	/2"C, # 2,# 2N,# 2G	20	A I			1.2	0.2			1
	5	K8	/2"C, # 2,# 2N,# 2G	20	A I					1.2	0.3	
	7	K5	/2"C, # 2,# 2N,# 2G	20	A I	1.2	0.3					3
	9	К4	/2"C, # 2,# 2N,# 2G	20	A I			1.4	0.3			1
		KG	/2"C, # 2,# 2N,# 2G	20	A I					1.2	0.4	
	13			20	A 2	6.0	0.4					3
	15	Existing WH	/2"C,2# 2,# 2N,# 2G	20	A Z			6.0	-0.A	$\sim\sim$	$\sim$	$\sim$
$\geq$	77	~~~~KB~~~~~	772"0,1#12,#1210,#120	20	Ar r	$\sim$	$\frown$	1{	Ъ	1.2	0.4	
}	19					0.3	0.4	5	R			3
$\left\{ \right.$	21	MAU- I	/2"C,3# 2,# 2N,# 2G	20	A 3			0.3	0.4			1
$\langle \  $	23								Br	10.3	10.31	$\square$
$\mathcal{L}$	~251	mm	mmm	M	m	PQ.AL	10,3	$\sim$	P			3
	27	W2B	/2"C,3# 2,# 2N,# 2G	20	A 3			0.4	0.3			1
	29									0.4	1.2	
			Total connected am	ps by	phase:	88 A		93 A		56 A		
			Total connected lo	ad by	phase:	10025	5 VA	1070	5 VA	6725	VA	
			Total con	inecte	d load:	27454	4 VA				Total D	emai
			Total connec	cted a	current:	76 A						
	Le	oad Classification	Demand Factor		Cor	nected	Curre	nt	Со	nnected	d Load	(VA)
		Receptacle	100.00%			2 A	A			900	O VA	
1												-

125.00%

65.00%

Continuous Kıtchen Equipment 33 A

40 A

# $\mathbf{O}$ **PROFICIENT** E N G I N E E R I N G 4110 Sutherland Avenue Knoxville, Tennessee 37919 865.409.5755 PROJECT # 222165

# AIC Rating: Existing Mains Type: MLO Mains Rating: 400 A

## AIC Rating: Existing Mains Type: MLO Mains Rating: 125 A

	Pole	Trip	Wire Size	Circuit Description	СКТ
	1			SHUNT TRIP	2
	-	20 A	/2"C, # 2,# 2N,# 2G	KI	4
3					6
	3	20 A	/2"C,3# 2,# 2N,# 2G	WIA	8
					10
ł					12
	3	20 A	/2"C,3# 2,# 2N,# 2G	WIB	14
$\mathbf{r}$	$\sim$	$\sim\sim\sim$			rto
ŀ					18
	3	20 A	1/2"C,3#12,#12N,#12G	KEF-I	20
					22
K		<u>n</u>	mm	mm	24
	3	20 A	/2"C,3# 2,# 2N,# 2G	W2A	26
					28
2	1	20 A	/2"C, # 2,# 2N,# 2G	K7	30

Demand Load: 25360 VA

12000 VA

14554 VA

A)	Estimated Demand (VA)
	900 VA
	15000 VA
	9460 VA



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

Anderson County Senior Center 96 Mariner Point Drive Clinton, Tennessee 37716



## Project Phase: Construction Documents

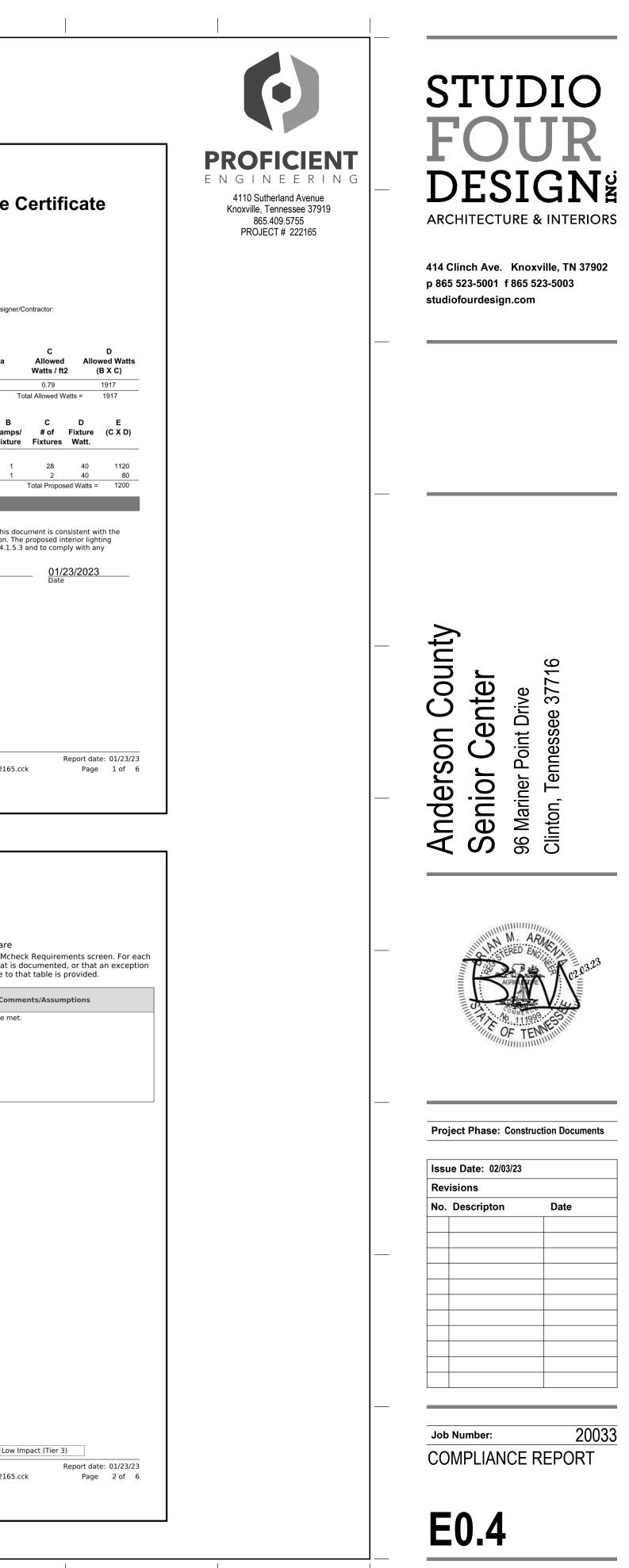
lss	sue Date: 02/03/23						
Re	Revisions						
No	. Descripton	Date					
1	Revision 1	02.14.2023					

Job Number: SCHEDULES 20033

E0.3

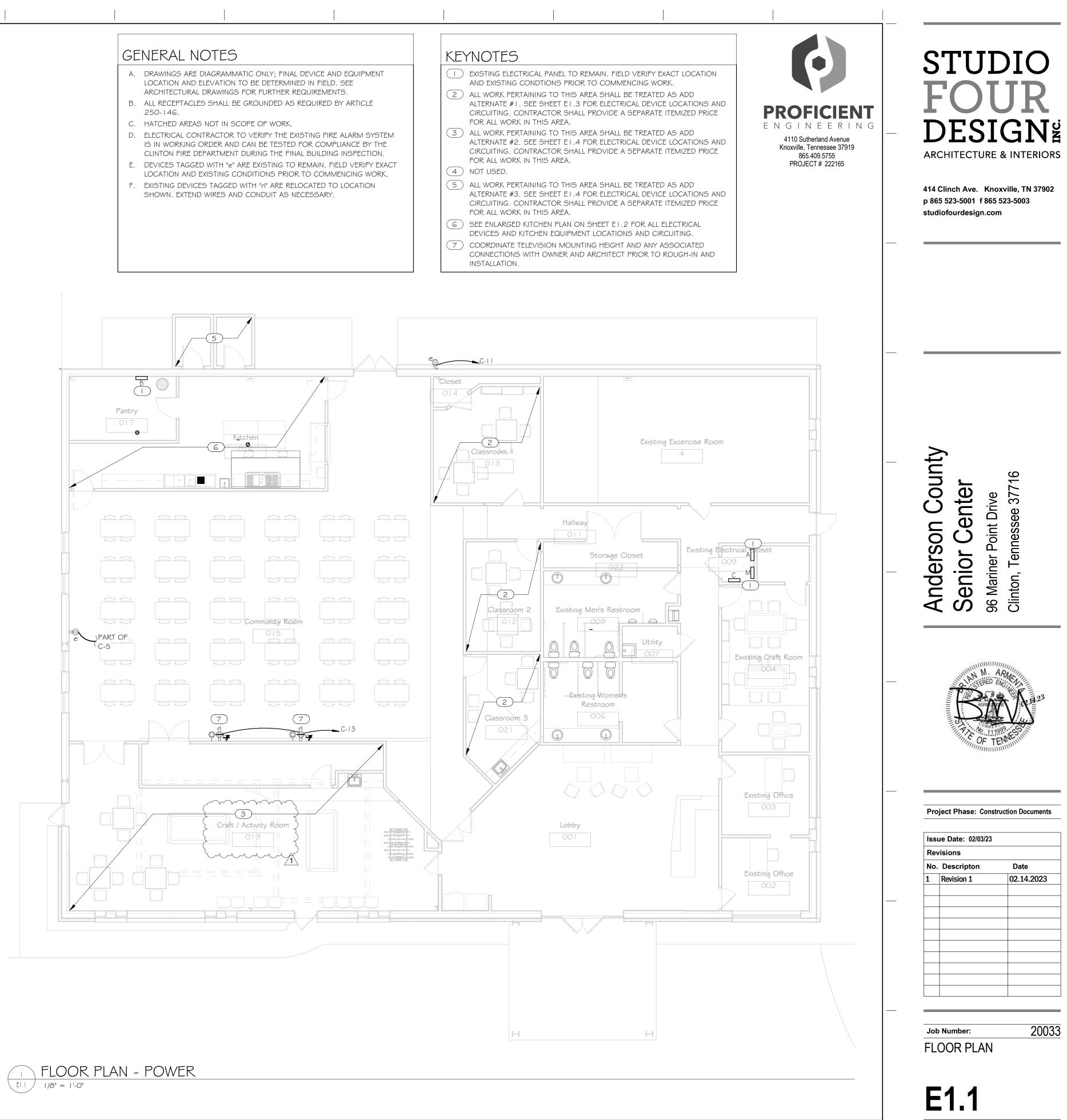
	Cation				
—	Section # & Req.II C303.3, C408.2.5	Final Inspection Furnished O&M instructions for	Complies?	Comments/Assumptio	ns
	2 [FI17] <sup>3</sup>	<ul> <li>systems and equipment to the building owner or designated representative.</li> </ul>	Does Not Not Observable Not Applicable		
		Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.		e Interior Lighting fixture schedule for valu	es.
	C408.1.1 [FI57] <sup>1</sup>	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed,	□Not Observable □Not Applicable	ement will be met.	
	[FI16] <sup>3</sup>	<ul> <li>maintained, and operated.</li> <li>Furnished as-built drawings for electric power systems within 90 days of system acceptance.</li> </ul>	Complies Requires Requires Does Not Doservable Not Applicable	rement will be met.	
	C408.3 [FI33] <sup>1</sup>	Lighting systems have been tested to ensure proper calibration, adjustment programming, and operation.	☐Complies Requir ☐Does Not ☐Not Observable ☐Not Applicable	ement will be met.	
	Project Tit Data filen	cle: ANDERSON COUNTY SENIOR CEN ame: P:\Public\222\222165 Anderson Co		Repor novation\222165.cck	t date: 01/23/23 Page 5 of 6
	Project Til	:le: ANDERSON COUNTY SENIOR CEN	TER	Repo	

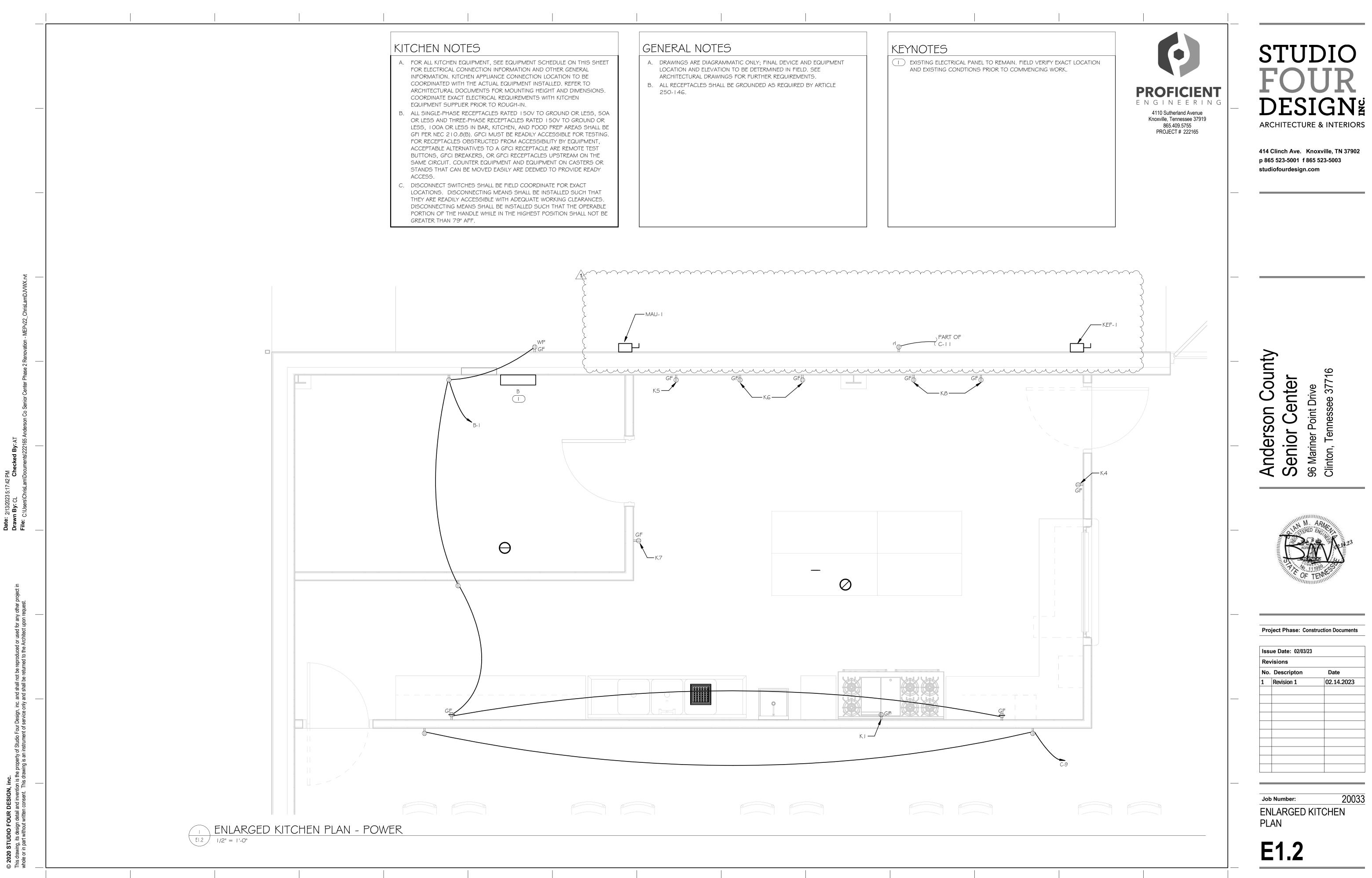
	Spaces required to have light-		Requirement will be met.	
2 [EL22] <sup>1</sup>	reduction controls have light- reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination	Does Not Not Observable		Interior Lighting Compl
	pattern >= 50 percent. Occupancy sensors installed in		Requirement will be met.	Project Information
1	classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms,	□Does Not □Not Observable		Energy Code: 2018 IECC Project Title: ANDERSON COUNTY SENIOR CEN
[ELI0]-	lounges/breakrooms, enclosed offices, open plan office areas, restrooms,	□Not Applicable		Project Type: Alteration
	storage rooms, locker rooms, warehouse storage areas, and other			Construction Site: Owner/Agent:
	spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language			96 MARINER POINTE DRIVE CLINTON, TN 37716
	C405.2.1.2 for control function in warehouses and section C405.2.1.3			Allowed Interior Lighting Power A
C405.2.1.	for open plan office spaces. Occupancy sensors control function in	Complies	Exception: Requirement does not apply.	Area Category
2 [EL19] <sup>1</sup>	warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that	Does Not		1-Office
	controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are	Not Applicable		
	unoccupied. The occupant sensors control lighting in each aisleway			Proposed Interior Lighting Power A
	independently and do not control lighting beyond the aisleway being			Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast
	controlled by the sensor. Occupant sensor control function in	Complies	Requirement will be met.	Office (2426 sq.ft.)
	open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1)	□Does Not □Not Observable		LED 1: A: 2X4 LED RECESSED TROFFER: Other: LED 2: B: 4' LINEAR FIXTURE: Other:
	configured so that general lighting car be controlled separately in control	」LINot Applicable		Interior Lighting DASSES
	zones with floor areas <= 600 sq.ft. within the space, 2) automatically turr off general lighting in all control zones			Interior Lighting PASSES Interior Lighting Compliance Statement
	within 20 minutes after all occupants have left the space, 3) are configured			Compliance Statement: The proposed interior lighting alteration project repre- building plans, specifications, and other calculations submitted with this perm
	so that general lighting power in each control zone is reduced by $>= 80\%$ of			systems have been designed to meet the 2018 IECC requirements in COM <i>che</i> applicable mandatory requirements listed in the Inspection Checklist.
	the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are			BRIAN M ARMENTA - PE Bries Monin
	configured such that any daylight responsive control will activate space			Name - Title Signature
	general lighting or control zone general lighting only when occupancy			
	for the same area is detected. Each area not served by occupancy sensors (per C405.2.1) have time.		Exception: Lighting controlled by occupancy sensors.	
1,	sensors (per C405.2.1) have time- switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2	LINOT Observable		
2 [EL21] <sup>2</sup>		□Not Applicable		
Section	Rough-In Electrical Inspection	Complies?	Comments/Assumptions	COM <i>check</i> Software Version 4.
# & Req.ID C405.2.3,	Daylight zones provided with	Complies?	Comments/Assumptions Exception: Requirement does not apply.	COMcheck Software Version 4. Inspection Checklis
# & Req.ID C405.2.3, C405.2.3. 1,	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3	Complies Does Not Not Observable		Inspection Checklist Energy Code: 2018 IECC
# & Req.ID C405.2.3, C405.2.3. 1, C405.2.3. 2	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh	Complies Does Not Not Observable Not Applicable		Inspection Checklist Energy Code: 2018 IECC Requirements: 100.0% were addressed directly in the COM <i>che</i>
# & Req.ID C405.2.3, C405.2.3. 1, C405.2.3. 2 [EL23] <sup>2</sup>	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh responsive control function and section C405.2.3.2 Sidelit zone.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.	Inspection Checklist Energy Code: 2018 IECC
# & Req.ID C405.2.3, C405.2.3, 1, C405.2.3, 2 [EL23] <sup>2</sup> C405.2.4	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh responsive control function and	Complies Does Not Not Observable Not Applicable t Complies Does Not	Exception: Requirement does not apply.	Inspection Checklist Energy Code: 2018 IECC Requirements: 100.0% were addressed directly in the COMcheck Text in the "Comments/Assumptions" column is provided by the user requirement, the user certifies that a code requirement will be met a is being claimed. Where compliance is itemized in a separate table, a
# & Req.ID C405.2.3, C405.2.3, 1, C405.2.3, 2 [EL23] <sup>2</sup> C405.2.4 [EL26] <sup>1</sup>	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh responsive control function and section C405.2.3.2 Sidelit zone. Separate lighting control devices for specific uses installed per approved lighting plans.	Complies Does Not Not Observable Not Applicable t Complies Does Not Not Observable Not Observable Not Applicable	Exception: Requirement does not apply.	Inspection Checklist         Energy Code: 2018 IECC         Requirements: 100.0% were addressed directly in the COMcheck         Text in the "Comments/Assumptions" column is provided by the user         requirement, the user certifies that a code requirement will be met a         is being claimed. Where compliance is itemized in a separate table, a         Section         #       Plan Review         Complies?
# & Req.ID C405.2.3, C405.2.3, 1, C405.2.3, 2 [EL23] <sup>2</sup> C405.2.4 [EL26] <sup>1</sup>	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh responsive control function and section C405.2.3.2 Sidelit zone. Separate lighting control devices for specific uses installed per approved lighting plans.	Complies Does Not Not Observable Not Applicable t Complies Does Not Not Observable Not Observable Complies Complies Does Not	Exception: Requirement does not apply. Requirement will be met. Requirement will be met.	Section       Plan Review       Complies?         Kequire       Plans, specifications, and/or       Calculations provide all information         C103.2       Plans, specifications, and/or       Complies       Require
# & Req.ID C405.2.3, C405.2.3. 1, C405.2.3. 2 [EL23] <sup>2</sup> C405.2.4 [EL26] <sup>1</sup> C405.2.4	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh responsive control function and section C405.2.3.2 Sidelit zone. Separate lighting control devices for specific uses installed per approved lighting plans.	Complies Does Not Not Observable Not Applicable t Complies Does Not Not Observable Not Applicable Complies	Exception: Requirement does not apply. Requirement will be met. Requirement will be met.	Section       Plan Review       Complies?         Kequire       Plans, specifications, and/or       Calculations provide all information         With which compliance can be       determined for the interior lighting         and electrical systems and equipment       Not Observable
# & Req.ID C405.2.3, C405.2.3, 2 [EL23] <sup>2</sup> C405.2.4 [EL26] <sup>1</sup> C405.2.4 [EL27] <sup>1</sup>	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh responsive control function and section C405.2.3.2 Sidelit zone. Separate lighting control devices for specific uses installed per approved lighting plans. Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and	Complies Does Not Not Observable Not Applicable t Complies Does Not Not Observable Not Applicable Complies Complies Does Not Not Observable	Exception: Requirement does not apply. Requirement will be met. Requirement will be met.	Section       Plan Review       Complies?         Example 4       Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information
# & Req.ID C405.2.3. 1, C405.2.3. 2 [EL23] <sup>2</sup> C405.2.4 [EL26] <sup>1</sup> C405.2.4 [EL27] <sup>1</sup> C405.3	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh responsive control function and section C405.2.3.2 Sidelit zone. Separate lighting control devices for specific uses installed per approved lighting plans. Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting. Exit signs do not exceed 5 watts per	Complies Does Not Not Observable Complies Complies Does Not Not Observable Complies Complies Complies Does Not Not Observable Not Observable Complies Complies Does Not Not Observable Complies Does Not Not Observable Complies Does Not Not Observable	Exception: Requirement does not apply. Requirement will be met. Requirement will be met.	Section       Plan Review       Complies?         Encal Closer       Requirement where can be determined for the interior lighting and document where exceptions to
# & Req.ID C405.2.3, C405.2.3, 2 [EL23] <sup>2</sup> C405.2.4 [EL26] <sup>1</sup> C405.3 [EL6] <sup>1</sup> C405.6	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh responsive control function and section C405.2.3.2 Sidelit zone. Separate lighting control devices for specific uses installed per approved lighting plans. Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting. Exit signs do not exceed 5 watts per face.	Complies Does Not Not Observable Observable Complies Does Not Not Observable Not Applicable Complies Does Not Not Observable Not Observable Not Observable Observable Not Observable Not Observable Complies Does Not Complies Does Not Complicable Co	Exception: Requirement does not apply. Requirement will be met. Requirement will be met.	Section       Plan Review       Complies       Require         C103.2       Plans, specifications, and/or       Complies       Require         C103.2       Plans, specifications, and/or       Complies       Require         Determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior       Not Observable
# & Req.ID C405.2.3. 1, C405.2.3. 2 [EL23] <sup>2</sup> C405.2.4 [EL26] <sup>1</sup> C405.2.4 [EL27] <sup>1</sup> C405.3 [EL6] <sup>1</sup>	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh responsive control function and section C405.2.3.2 Sidelit zone. Separate lighting control devices for specific uses installed per approved lighting plans. Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting. Exit signs do not exceed 5 watts per face.	Complies Does Not Not Observable Observable Observable Does Not Not Observable Complies Observable Complies Observable Observable Complies Observable Complies Does Not Observable Not Observable Observable Not Observable Observable Not Observable Observable	Exception: Requirement does not apply.         Requirement will be met.         Requirement will be met.         Requirement will be met.         Exception: Requirement does not apply.	Section       Plan Review       Complies?         & Require       Plans, specifications, and/or calculations provide and provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and
# & Req.ID C405.2.3, C405.2.3, [EL23] <sup>2</sup> C405.2.4 [EL26] <sup>1</sup> C405.3 [EL6] <sup>1</sup> C405.6 [EL26] <sup>2</sup> C405.7	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh responsive control function and section C405.2.3.2 Sidelit zone. Separate lighting control devices for specific uses installed per approved lighting plans. Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting. Exit signs do not exceed 5 watts per face. Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6. Electric motors meet the minimum	Complies Does Not Not Observable Not Applicable Complies Does Not Not Observable Complies Does Not Complies Does Not Complies Does Not Complicable Complies Does Not Complicable Complicab	Exception: Requirement does not apply.         Requirement will be met.         Requirement will be met.         Requirement will be met.         Exception: Requirement does not apply.	Section       Plan Review       Complies       Require         C103.2       Plans, specifications, and/or       Complies       Require         C103.2       Plans, specifications, and/or       Complies       Require         Determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior       Not Observable
# & Req.ID C405.2.3, C405.2.3, 2 [EL23] <sup>2</sup> C405.2.4 [EL26] <sup>1</sup> C405.3 [EL6] <sup>1</sup> C405.6 [EL26] <sup>2</sup>	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh responsive control function and section C405.2.3.2 Sidelit zone. Separate lighting control devices for specific uses installed per approved lighting plans. Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting. Exit signs do not exceed 5 watts per face. Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6. Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4).	Complies Does Not Not Observable Not Applicable Complies Does Not Not Observable Complies Does Not Not Observable Not Applicable Complies Does Not Not Observable Complies Does Not Not Observable Not Applicable Complies Does Not Not Observable Complies Does Not Not Observable Complies Does Not Not Observable Complies Does Not Complies Compli	Exception: Requirement does not apply.         Requirement will be met.         Requirement will be met.         Requirement will be met.         Exception: Requirement does not apply.         Exception: Requirement does not apply.	Section       Plan Review       Complies       Require         C103.2       Plans, specifications, and/or       Complies       Require         C103.2       Plans, specifications, and/or       Complies       Require         Determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior       Not Observable
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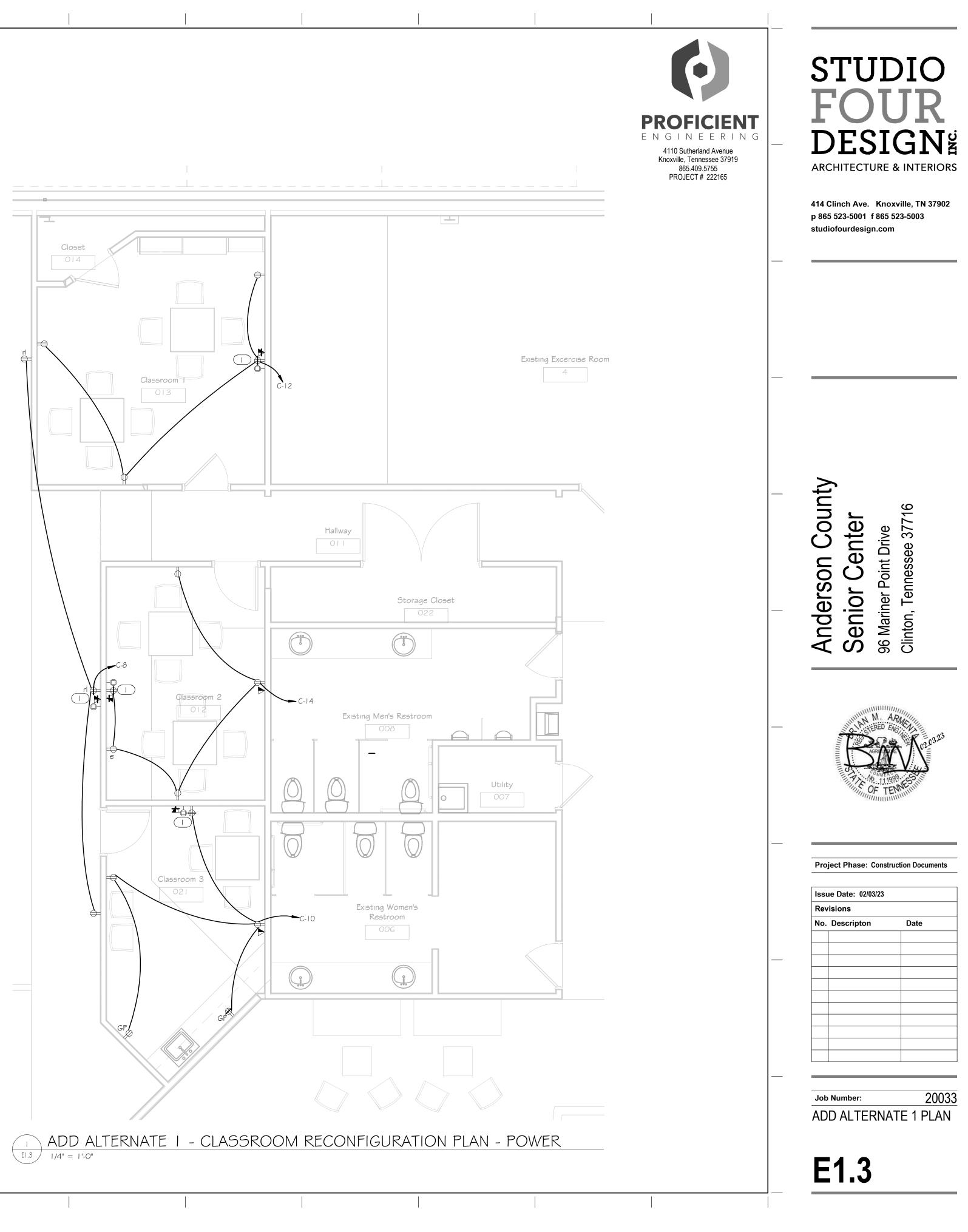
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# GENERAL NOTES

- A. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL DEVICE AND EQUIPMENT LOCATION AND ELEVATION TO BE DETERMINED IN FIELD. SEE ARCHITECTURAL DRAWINGS FOR FURTHER REQUIREMENTS.
- B. ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE 250-146.
- C. DEVICES TAGGED WITH "e" ARE EXISTING TO REMAIN. FIELD VERIFY EXACT LOCATION AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- D. EXISTING DEVICES TAGGED WITH "rI" ARE RELOCATED TO LOCATION SHOWN. EXTEND WIRES AND CONDUIT AS NECESSARY.

# KEYNOTES

COORDINATE TELEVISION MOUNTING HEIGHT AND ANY ASSOCIATED CONNECTIONS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION.



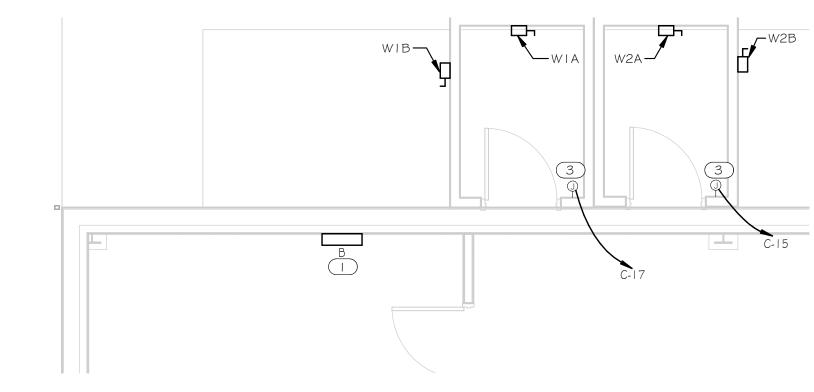
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# GENERAL NOTES

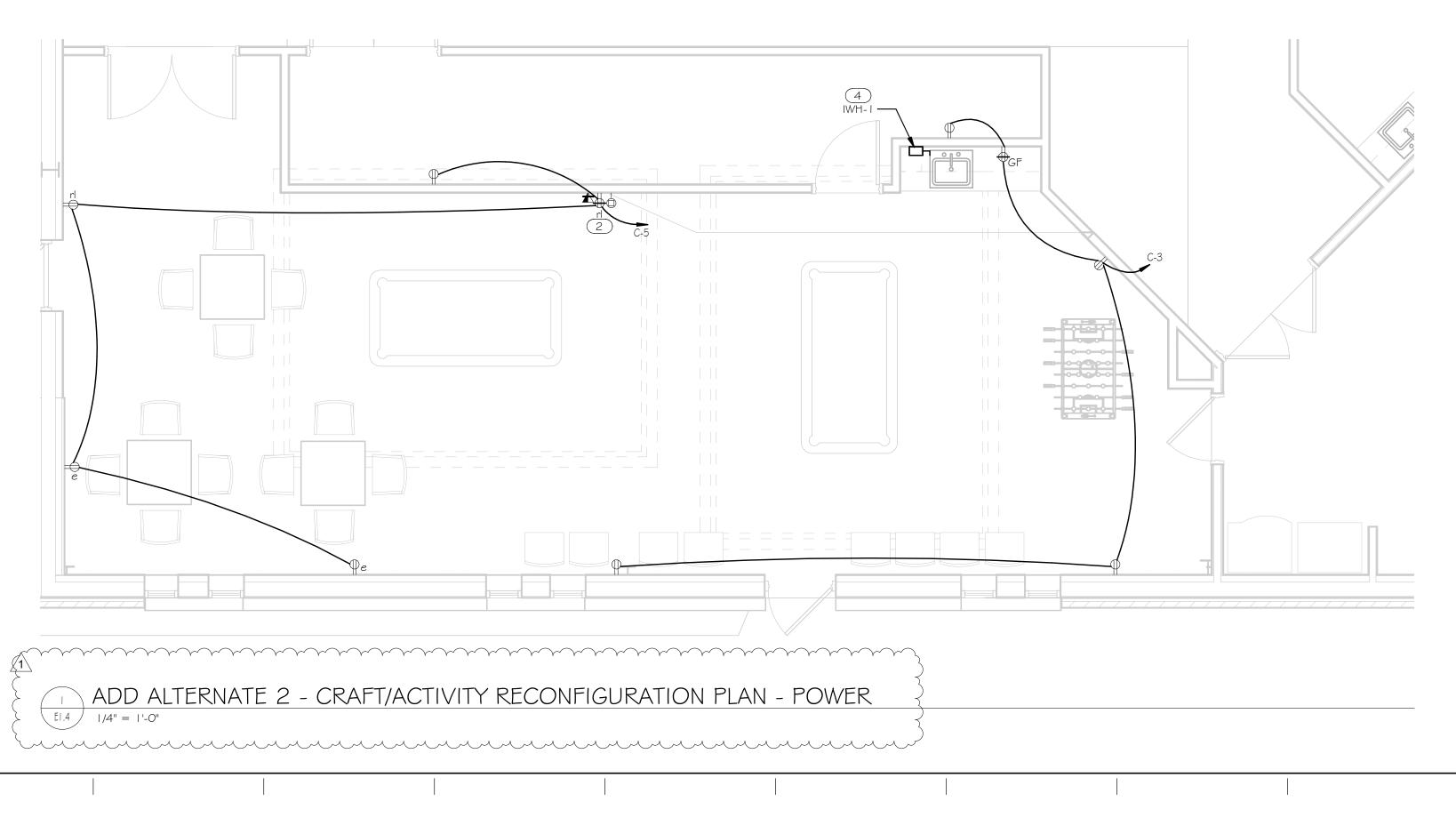
- A. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL DEVICE AND EQUIPMENT LOCATION AND ELEVATION TO BE DETERMINED IN FIELD. SEE ARCHITECTURAL DRAWINGS FOR FURTHER REQUIREMENTS.
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- D. EXISTING DEVICES TAGGED WITH "rI" ARE RELOCATED TO LOCATION SHOWN. EXTEND WIRES AND CONDUIT AS NECESSARY.

# KEYNOTES

- EXISTING ELECTRICAL PANEL TO REMAIN. FIELD VERIFY EXACT LOCATION AND EXISTING CONDTIONS PRIOR TO COMMENCING WORK.
- 2 COORDINATE TELEVISION MOUNTING HEIGHT AND ANY ASSOCIATED CONNECTIONS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION.
- (3) PROVIDE JUNCTION BOX FOR WALK-IN COOLER/FREEZER ACCESSORIES. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO PURCHASE AND COMMENCING WORK.
- (4) WATER HEATER LOCATED UNDER SINK. SEE PLUMBING DRAWINGS FOR FURTHER REQUIREMENTS.



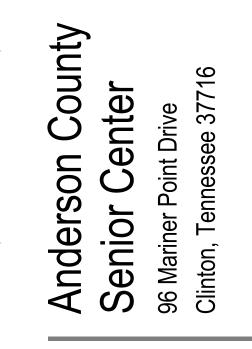
# 2 ADD ALTERNATE 3 - WALK-IN COOLER PLAN - POWER







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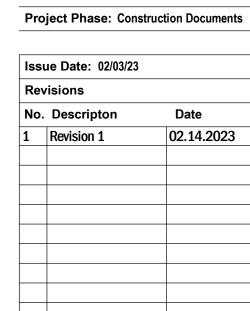












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- LOCATION AND ELEVATION TO BE DETERMINED IN FIELD. SEE

- CONTROLS.

- EXTEND WIRES AND CONDUIT AS NECESSARY.
- PRICE FOR ALL WORK IN THIS AREA.
- PRICE FOR ALL WORK IN THIS AREA.

