ROOTS SEASONAL CUISINE



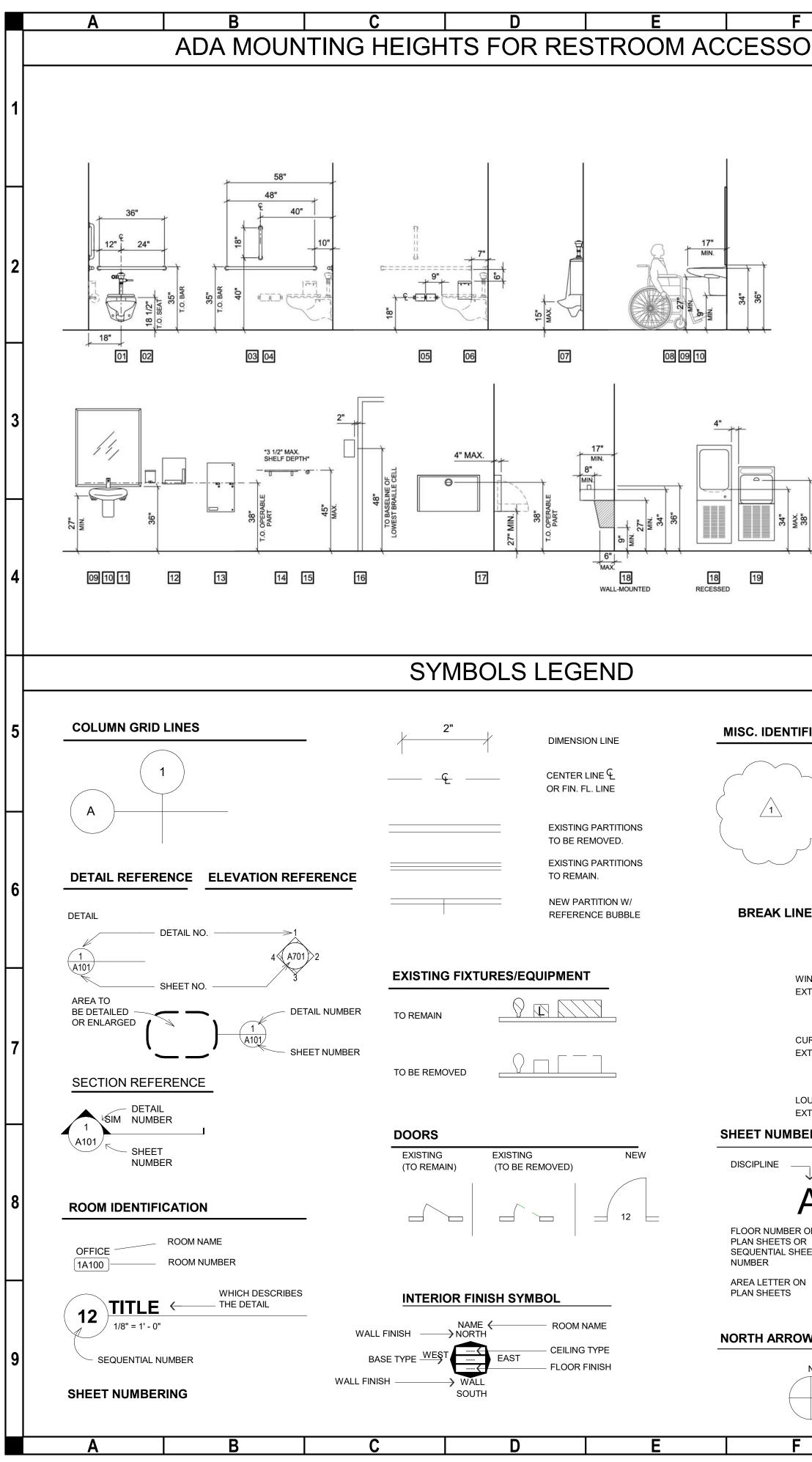
940 NW PRYOR RD, SUITE M LESS'S SUMMIT, MO 64081



NewLine Studio, IIc 3965 W. 83rd St. #135 Prairie Village, KS 66208 T: 913.318.5030 E: Robert.Wade@newlinestudio.net www.newlinestudio.net

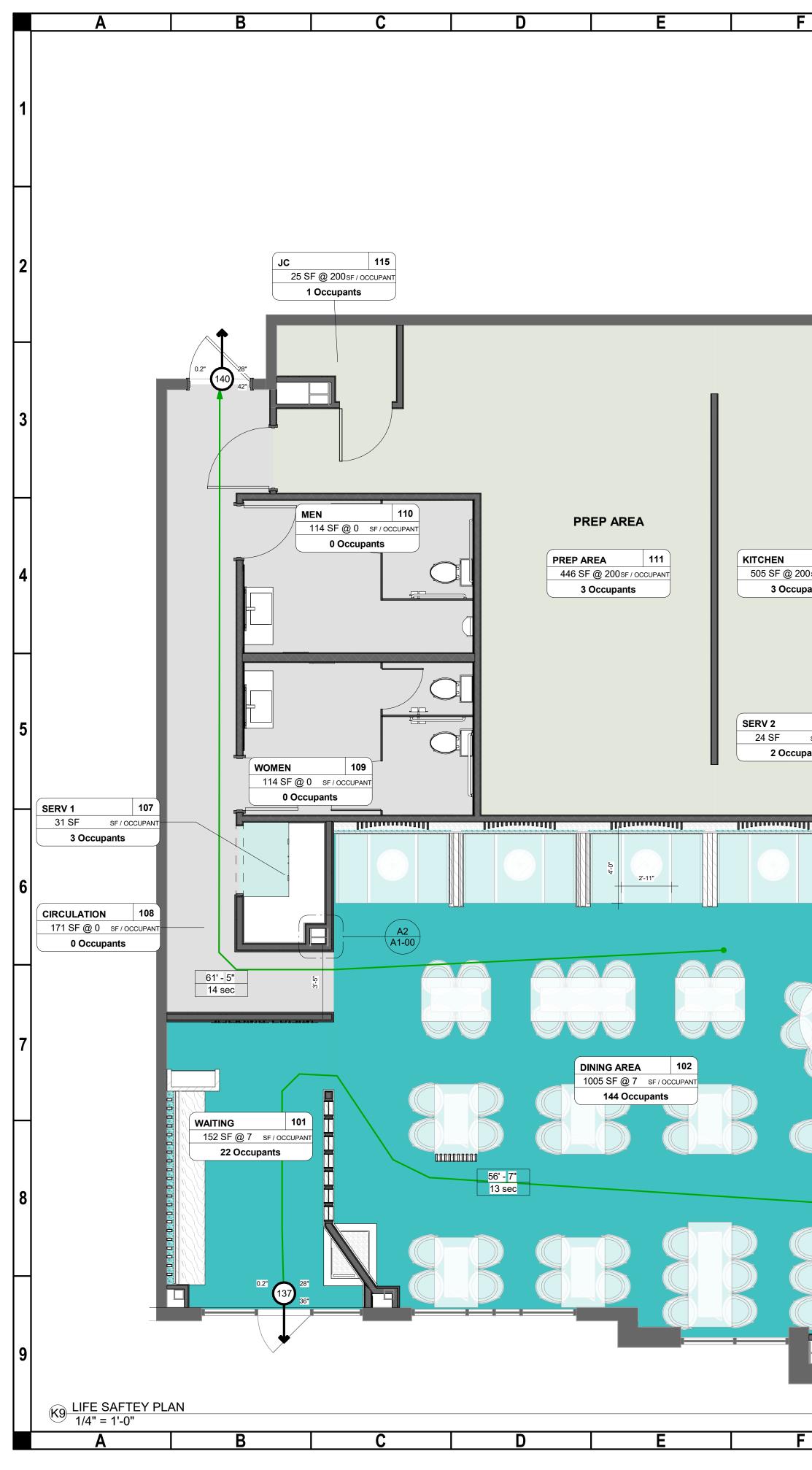
RELEASED FO CONSTRUCTION As Noted on Plans Revie pment Services Dep

> Lee's Summit, Missou 11/03/2021

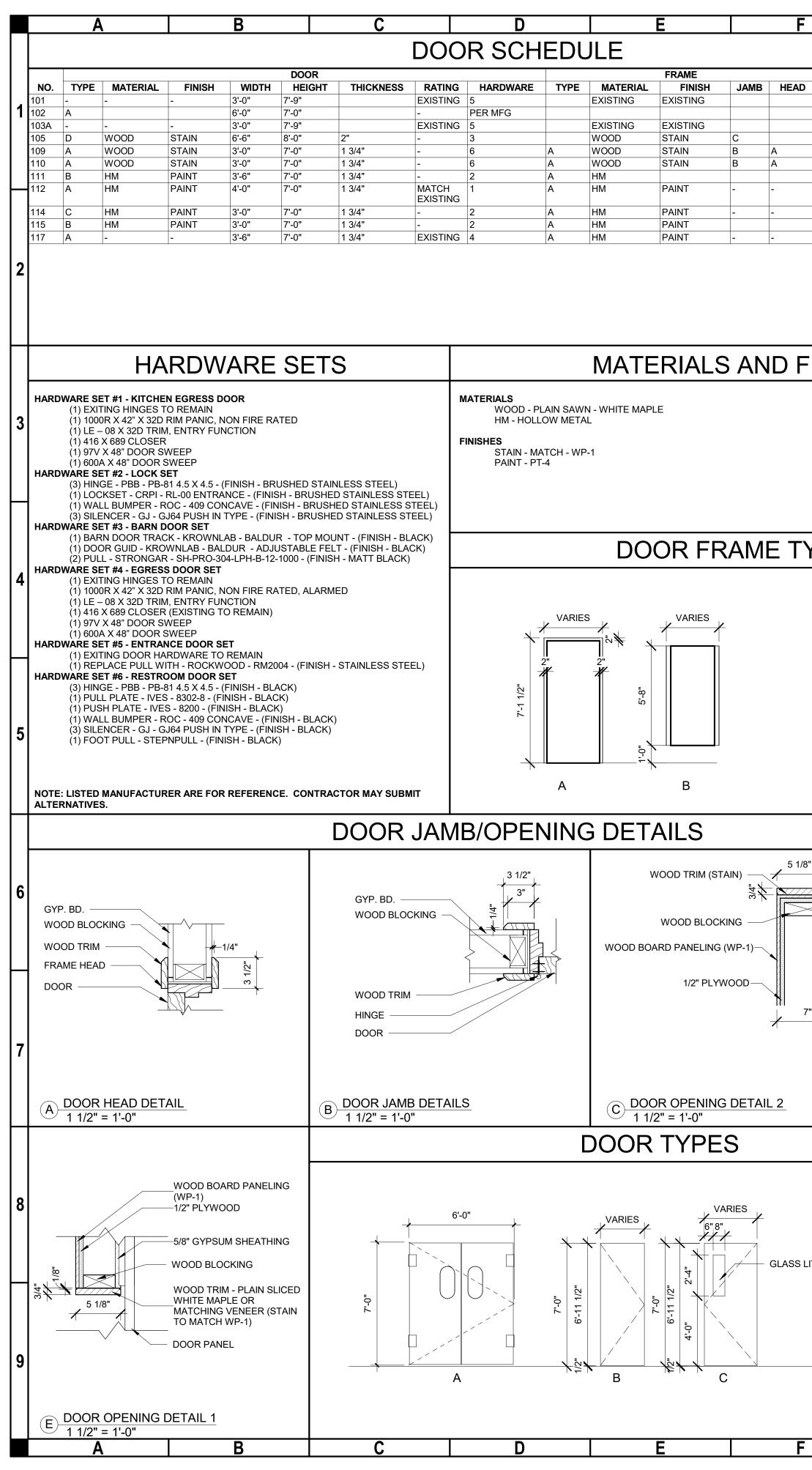


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			ED ARE FOR DESIGN IN					
			<u>LL MEANS AND METHO</u> N. ANY ERRORS AND/0		•		NO. A0-00	COVER
			NSIBILITY OF THE ARCH			/	A0-00 A0-01	TITLE SH
							A0-02	CODE / L
	LEGEND		VERIFY AND COORDIN				A0-03	SCHEDU
	01 TOILET		OR TO BIDDING, START				A1-00	PLAN - V
	02 36" GRAB BAR	· · · · ·	ONSISTENCIES OR OMI FOR CLARIFICATION PR			(A1-01 A1-02	1ST FLO RCP
	03 48" GRAB BAR						A1-02 A1-03	ENLARG
	04 18" GRAB BAR		/INGS. CONTRACTORS ARCHITECT FOR ALL RE			UND AD	A1-04	FINISH F
	05 TOILET PAPER DISPENSER 06 SANITARY NAPKIN DISPOSAL						A1-05	ENLARG
	07 URINAL		OUGHOUT THE PLANS A BBREVIATIONS IN QUE		MMON USE. NOTIF	(A4-01 A4-02	INTERIO INTERIO
	08 KNEE CLEARANCE 09 LAVATORY	DIMENSIONS SHOWN UNLESS OTHERWISE	ARE TO FACE OF WALL NOTED.	., MASONRY, CON	CRETE OR GRID LI		A4-03 A5-01	INTERIO INTERIO
	10 MIRROR 11 SOAP DISPENSER		R OPENINGS ARE TO F			7	A5-02	INTERIO
	12 PAPER TOWEL DISPENSER	LOCATED BY DIMENS	ION SHALL BE CENTER	ED IN WALLS AS S	HOWN OR LOCATE	1) 3" >	A5-03 A5-04	INTERIO INTERIO
	13 SANITARY NAPKIN DISPENSER14 SHELF		Υ.		,	>	A5-05	INTERIO
	15 COAT HOOK	FINISHED FLOOR ELE OTHERWISE NOTED.	VATIONS ARE THE EST	ABLISHED DATUM	LINE, UNLESS	\succ	A5-06	INTERIO
	16 ROOM SIGNAGE		PROVIDE ALL NECESS	ARY PERMITS AND) INSPECTIONS		A5-07 A5-08	INTERIO INTERIO
a.	17 BABY CHANGING STATION18 DRINKING FOUNTAIN	CONTRACTOR SHALL	VERIFY THE LOCATION			\geq	A5-09 MP0.1	INTERIO MECHAN
	19 BOTTLE-FILLING STATION	BIDDING AND CONST				(MP0.2	MECHAN
a ×			FERENCE TO MANUFAC	TURERS BRAND	MODELS ETC TO)	P1.0	PLUMBI
MAX.			AND QUALITY DESIRE		•		P1.1	PLUMBI
<u> </u>					HITECT AND OWNE		P2.0	PLUMBI
		PRIOR TO BID (UNLES	S OTHERWISE NOTED)				P2.1	PLUMBIN MECHAN
			SHALL BE IN ACCORDA	NCE WITH ALL APF	PLICABLE CODES,	(M1.0 M1.1	MECHAN
		ORDINANCES AND RE	GULATIONS				M2.0	MECHAN
		THE CONTRACTOR SH	HALL VERIFY THE LOCA	TION OF ALL EXIS	TING UTILITIES BEI		M2.1	MECHAN
			SERVICE CONNECTIO		ESPECTIVE UTILIT		M3.0	KITCHEN
		COMPANIES PRIOR 10	O BEGINNING CONSTRU	JCTION.		2	M3.1	KITCHEN
			COORDINATE THE REM			/	M3.2	KITCHEN
		RELOCATION OF EXIS UTILITY COMPANIES.	STING UTILITIES ABOVE	OR BELOW GRAD	E WITH THE RESPE		M3.3	KITCHEN
		UTILITY COMPANIES.					M3.4 M3.5	KITCHEN
FICATION			ALLIC MATERIALS SHAL	L BE EFFECTIVELY	ISOLATED FROM I		M3.6	KITCHEN
		OTHER TO PREVENT	GALVANIC ACTION.			\ \	M3.7	KITCHEN
$\overline{}$			CT WITH MASONRY OR				E0.1	ELECTR
)	SION TRIANGLE &	WITH AN APPROVED	PRESERVATIVE IN ACC	ORDANCE WHIT A	WPA C22.		E1.0	ELECTR
CLOU	D	ALL INSULATION NOT	ED ON PLANS SHALL BE	E NON-COMBUSTIE	BLE AND MAINTAIN		E2.0	ELECTR
\sim		THERMAL MOISTURE	PROTECTION.				E2.1	ELECTR
		ALL CHANGES WILL B	E SUBMITTED IN WRITH	NG TO OWNER FO	R APPROVAL PRIO		E3.0 E3.1	LIGHTIN
		INSTALLATION.				(FS 1.0	FOODSE
			TION REFERENCE POIN	IT WHICH IS TO BE			FS 2.0	FOODSE
E						\searrow	FS 3.0	FOODSE
	N	ALL WINDOW SILLS JA	AMBS AND HEADS SHAL	L BE WRAPPED W	/ITH GYPSUM BOAF		FS 4.0	FOODSE
							FS 5.0 FS 5.1	FOODSE FOODSE
INDOW TYPE. SI KTERIOR ELEVA		OTHERWISE NOTED.	LUMNS SHALL BE WRA		JM BOARD UNLESS	P		
			E CONCRETE IS CUT, R					
	YPE. SHOWN ON		L VAPORBARIER TO MA ALL #4 REBAR DOWELS					NER/CLIE AMANDA
KTERIOR ELEVA		CONCRETE.) AT 24" O						CONTAC
								C: 816.26
OUVER TYPE. SH								<u>CHITECT:</u> NEWLINE
KTERIOR ELEVA			LOCATIO	JN MAP				CONTAC
ERING			Target	Parco	Nothing Bund			8734 ROS
					Subaraft			PRAIRIE 0:913.318
	S			Best Buy	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			C:816.916
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ON	\uparrow \uparrow			T.J. Maxx	Shoe Warehouse			BC ENGII
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		\mathcal{O}	LongHo	Pearl Tavern				MERRIAN 0:913.262
۱					ar Olive Ga			F:913.262
		1000	NW Ghipman Rd	NW/Chipman/Rd	55		GEN	NERAL CO
				Fu Rose Ct				VALENCI 4729 SW
W		tion	R R R R R R R R R R R R R R R R R R R		Bob Sig			LEE'S SU
 N		John Kno	x Village					O: 816-53
		Ca	e center V	di Birnio	Siki Japar House 8			C: 816-53 E: GREG
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				AN THE				
	G	H		The Pavilion				Μ
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				RELEASED FOR CONSTRUCTION As Noted on Plans Review
SHEET INDEX	P		New	Development Services Departmen Lee's Summit, Missouri
SHEET NAME	CURRENT REVISION		ARC Vision Nev	HITECTURE + INTERIORS to Reality Begins with a NewLine WLine Studio, LLC
SHEET LIFE SAFETY	1	1) Pra	5 W. 83rd St, #135 irie Village, KC 66208 one: 913.318.5030 w.newlinestudio.net
ULES WALL LAYOUT OOR PLAN	1			@newlinestudio.net
GED RCP AND CEILING DETIALS PLAN GED PLANS OR ELEVATIONS OR ELEVATIONS OR ELEVATIONS		2		
OR DETAILS/ELEVATIONS-SERV 1 & 2 OR DETAILS/ELEVATIONS-DINING AREA OR DETAILS/ELEVATIONS	1		ISINE	Щ 8 28 20 20 20 20 20 20 20 20 20 20 20 20 20
OR DETAILS/ELEVATIONS OR DETAILS/ELEVATIONS OR DETAILS/ELEVATIONS OR DETAILS/ELEVATIONS OR DETAILS/ELEVATIONS OR DETAILS/ELEVATIONS		3	N), SUIT MO 640
ANICAL AND PLUMBING SPECS ANICAL AND PLUMBING SPECS ING WASTE & VENT FLOOR PLAN ING WATER & GAS FLOOR PLAN ING SCHEDULES & DETAILS			SONA No	OR RD IMIT, N
ING RISERS NICAL FLOOR PLAN NICAL ROOF PLAN NICAL SCHEDULES & DETAILS NICAL OUTDOOR AIR CALCULATIONS		4	SEASONAL	V PRYOR SUMMI
EN HOOD DETAILS EN HOOD DETAILS EN HOOD DETAILS EN HOOD DETAILS EN HOOD DETAILS			OOTS	940 NW LESS'S
EN HOOD DETAILS EN HOOD DETAILS EN HOOD DETAILS EN HOOD DETAILS RICAL SPECS		5	Š	٥
RICAL LIGHTING PLAN RICAL POWER PLAN RICAL ROOF POWER PLAN NG SCHEDULES AND DETAILS				
RICAL RISER AND SCHEDULES ERVICE EQUIPMENT PLAN ERVICE SPECIAL CONDITIONS PLAN ERVICE ELECTRICAL PLAN ERVICE PLUMBING PLAN ERVICE WALK-IN DETAILS		6	G ROBERT LYN WADE NUMBER	SOURI L
ROJECT DIRECTORY			RED AP	
IENT: A ACCORUSO AND BRANDON SHARP CT: AMANDA ACCORUSO 60.5443 <u>:</u>		7	RevNo.Descri1CODE REVIEW	risions ption Date 10.06.21
IE STUDIO, LLC CT: ROBERT WADE, AIA DSEWOOD DR E VILLAGE, KS 66207 18.5030 16.3867				
ERT.WADE@NEWLINESTUDIO.NET EER: INEER CT: RICH CURRY ERRIAM DRIVE		8	Project Number:	2106
M, KS 66203 52.1772 52.1773 CONTRACTOR: CIA CONSTRUCTION, LLC V GULL POINT DR.			Scale: Date: TITLE SHEET	12" = 1'-0" 09.15.2021
UMMIT, MO 64082 537-7482 536-2865 G@VALENCIA-CONSTRUCTION.COM		9	A0	-01
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								CODE SUMM	ARY		New	RCHITECTURE + INTERIOR
							PROJECT NAME	ROOTS RESTAURANT			1.00	ision to Reality Begins with a NewLi NewLine Studio, LLC
							ADDRESS	940 NW PRYOR RD, SUITE M LESS'S SUMMIT, MO 64081	Л		1 3 F	3965 W. 83rd St, #135 Prairie Village, KC 66208
							LEGAL DESCRIPTION	N/A			V	Phone: 913.318.5030 www.newlinestudio.net nfo@newlinestudio.net
										-	_	
							DESCRIPTION	TENANT FINISH - NEW RES	TAURANT			
							JURISDICTION	LEE'S SUMMIT, MO				
							APPLICABLE CODES	2018 INTERNATIONAL BUILE 2018 NATIONAL ELECTRIC (2018 INTERNATIONAL PLUM 2018 INTERNATIONAL MECH	CODE IBING CODE IANICAL CODE			~
	0.2" 143 29"			114				2018 INTERNATIONAL FUEL 2018 INTERNATIONAL FIRE			S I	$\sim \sim$
			OFFICE 59 SF @ 200s	SF / OCCUPANT			OCCUPANCY	A-2			5	TE 108
			1 Occupar				CONST. TYPE	5-A YES			J J	U. 8
		L					SPRINKLED MAX TRAVEL DIST	250 LF				S S S
							ACTUAL EGRESS	230 LF 13'-0"			A	Q [™] ≥
							WIDTH	CCUPANCY SC			Z	R R ⊢
CHEN			DISH AREA	A			ROOM NAME				SO	EQ MM
12			ISH AREA 129 SF @ 200sf/c				101WAITING102DINING AREA	152 SF 7 SF 1005 SF 7 SF	22 144	4 3/8"	A A	\sim
			1 Occupants				103BAR SEATING104BAR	403 SF 7 SF 135 SF 15 SF	58	11 5/8" 1 3/4"		Ц Ц Ц С
							101Draw105PRIVATE DINING106SERV 2		35 2	7" 3/8"	S	$\leq \frac{1}{2}$
							107 SERV 1	31 SF 15 SF	3	5/8"	- S	N SS
							108CIRCULATION109WOMEN140MEN	171 SF 0 SF 114 SF 0 SF			5	940 LE
06	_						110MEN111PREP AREA	114 SF 0 SF 446 SF 200 SF	3	5/8"	5 Ŏ	ю 1
JPANT		51' - 2"					112KITCHEN113DISH AREA	505 SF 200 SF 129 SF 200 SF	3	5/8" 1/4"		
		12 sec	PRIVATE DINI				114 OFFICE 115 JC	59 SF 200 SF 25 SF 200 SF	1	1/4" 1/4"		
			245 SF @ 7 35 Occu	SF / OCCUPANT	$\overline{}$			3557 SF	282	4'-8 3/8"		
							A (B(B.1)	\mathbf{C}			6	
							A B B .1				POPERT	IVAIN 2
					A4 A1-00 A1-00						WAD	
	_	50' - 4" 11 sec										16582 5 10.06.21
			BAR 135 SF @ 15 SF	104							SRED	ARUI
			9 Occupan							(EF)		Revisions cription Da
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				EATING 10							8	
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										4	Project Number: Scale:	As indic
								П			Date:	As indica 09.15.2
	Ţ										CODE / LIFI	E SAFETY
			0.2"	Q Q							9	
			36"						\checkmark		λ (1 00
							P9 <u>1ST FLOOR</u> 1" = 10'-0")-02
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		NO.	ROOM		FLOOR	BASE				SOUTH
D EXISTING	COMMENTS	101	WAITING DINING AREA		CT-1	CTB-1 CTB-1	GC-1 WC-1/GC-2	ST-1 WP-1/STN-1/VW	PT-1	
		103	BAR SEATING		CT-1	CTB-1	GC-1/ACT-4	NONE	PT-1	
EXISTING	j	104 105	BAR PRIVATE DINING		CT-1	CTB-1 CTB-1	WD-2/ACT-1 GC-1	WP-1 PT-1	NONE STN-1/	
		106 107	SERV 2 SERV 1			CTB-1 CTB-1	ACT-1 ACT-1	PT-2 PT-2	PT-2 PT-2	
		108 109	CIRCULATION WOMEN			CTB-1 CTB-2	ACT-2 GC-1	PT-3 PT-3	STN-1 PT-3	
		110	MEN		CT-2/CT-3	CTB-2	GC-1	PT-3	PT-3	
		111 112	PREP AREA KITCHEN		EP-1	EPB-1 EPB-1	ACT-3 ACT-3	FRP-1 FRP-1	FRP-1/I FRP-1	21-4
EXISTING	<u>.</u>	113 114	DISH AREA OFFICE			EP-1 EPB-1	ACT-3 ACT-3	FRP-1 PT-4	SS-1 PT-4	
		115	JC		EP-1	EPB-1	ACT-3	FRP-1/PT-4	PT-4	
FINIS	HES							FINISH L	FGENC)
		CODE	DESCRIPTIO	N	MFG	NAME	SIZE			
			CEILING TILE CEILING TILE		ARMSTRONG ARMSTRONG	CALLA LYRA PB CONCE	24X24	BLACK WHITE	15/16 SQUARE 15/16 QUICK K	
		ACT-3	CEILING TILE		ARMSTRONG	CALLA HEALTH Z	ONE 24X48	WHITE	15/16 SQUARE	E LAY-IN
		CT-1	CEILING TILE CERAMIC TILE		ARMSTRONG MILE STONE	LYRA PB CONCE	24X48	WHITE COAL - MATTE FINISH	15/16 QUICK K	ERF EDGE
		CT-2	CERAMIC TILE		WOW USA	FLOW DIAMOND DECOR	6X10	WHITE		
		CT-3	CERAMIC TILE		WOW USA	CHEVRON FLOOP	R 4X20.5	ICE WHITE - MATTE	CUT ENDS SQ CT-2	UARE TO ALI
		CT-4	CERAMIC TILE		WOW USA	FLOW DIAMOND DECOR	6X10	BLACK		
	<u> </u>	CT-5	CERAMIC TILE		WOW USA	CHEVRON FLOOP	R 4X20.5	GRAPHITE - MATTE	CUT ENDS SQ CT-4	UARE TO ALI
YPE	5		CERAMIC TILE BASE		MILE STONE	+ONE	4X48	COAL - MATTE FINISH	FIELD CUT TO	
			CERAMIC TILE BASE		WOW USA	CHEVRON FLOOP		ICE WHITE - MATTE	CUT ENDS SQ CT-2	
		EP-1	EPOXY FLOOR		DUR-A-FLEX (OR EQUAL)	POLY-CRETE MD		CHARCOAL		
		EPB-1	EPOXY BASE		DUR-A-FLEX (OR EQUAL)	POLY-CRETE MD	B 6" HIGH	CHARCOAL		
		FRP-1	FIBERGLASS REINFORC	CED	VARIOUS		MIN .09" THICK	WHITE	USE PVC MOL INSIDE CORNE	
		GC-1	GYP BD CEILING (PAINT	-)	TBD	LATEX		WHITE	CORNERS	
		GC-2 GC-3	GYP BD CEILING (PAINT GYP BD CEILING (PAINT	Г)	TBD TBD	LATEX EPOXY		PT-2 TBD	MANUFACTUR	
		ML-1	METAL LAMINATE)	MOZ	ELEMENTS		PATINA 212D SATIN	USE MATCHIN	NG MOZ TRIM
		PLAM-	PLASTIC LAMINATE		WILSONART	TRACELESS		ACORN VELVET ELM	CORNERS AND 15602-31	DEDGES
		1 PLAM-	PLASTIC LAMINATE		FORMICA			BLACK - MATTE FINISH	909-58	
		2 PT-1	PAINT		TBD	LATEX			MANUFACTUR	
		PT-2	PAINT		TBD	LATEX		BLACK	MANUFACTUR	RER IS FOR C
		PT-3 PT-4 SS-1	PAINT PAINT STAINLESS STEEL WAL	L PANELS	TBD TBD VARIOUS	EPOXY EPOXY STAINLESS STEE	L 16 GAUGE	SMOOTH TEXTURE	MANUFACTUR MANUFACTUR USE STAINLES	RER IS FOR CO
									PANEL JOIST, OUTSIDE COR	
1/8"		STN-1	STONE PANEL		REALSTONE SYSTEMS	BIRCH HONED	VARIES	WHITE		
	LAMINATED GLASS WITH		VYNIL WALL COVERING CUSTOM CEILING	1	WOLF GORDON	KABUTO	52" WIDE	AMAZONITE		
	FROSTED VINYL FILM		3/8" WOOD PANELING		VIRIDIAN WOOD	WALNUT	4X96	WALNUT	3/8" THICK TO	NGUE AND G
7"		<u>NO</u> TIL	<u>TE:</u> E GROUT - TBD							
							WALL I	BASE DETA	AILS	
S LITE		S	AING PER WALL TYPE HEATHING PER WALL TYPE UMINUM EDGE STRIP CERAMIC TILE	4+		FFL	1/2" PLYWOOI NG PER WALL TYP GYPSUM BOAR WOOD PANELIN CERAMIC TIL	E D G C C C C C C C C C C C C C C C C C C	FFL	FRAMING CEMENT
	EVATION (H3/A4-01)	JOINT	MORTAR — CERAMIC TILE — SEALANT AND JOINT SEALANT BACKING — BLOCKING —			MET	Morta Al Laminate (ML-2			JOINT SE/ SI
		A	GYP WALL WITH T 1 1/2" = 1'-0"	ILE BAS	E	B <u>V</u>	<u>VOOD WALL I</u> 1 1/2" = 1'-0"	M.L. WALL BASE (TYF	' .)	$ C \frac{S}{1}$
F	G		<u>1 1/2" = 1'-0"</u> H		J	K	$\frac{1}{1} \frac{1}{2} = 1^{-} 0^{-}$	L I	Μ	
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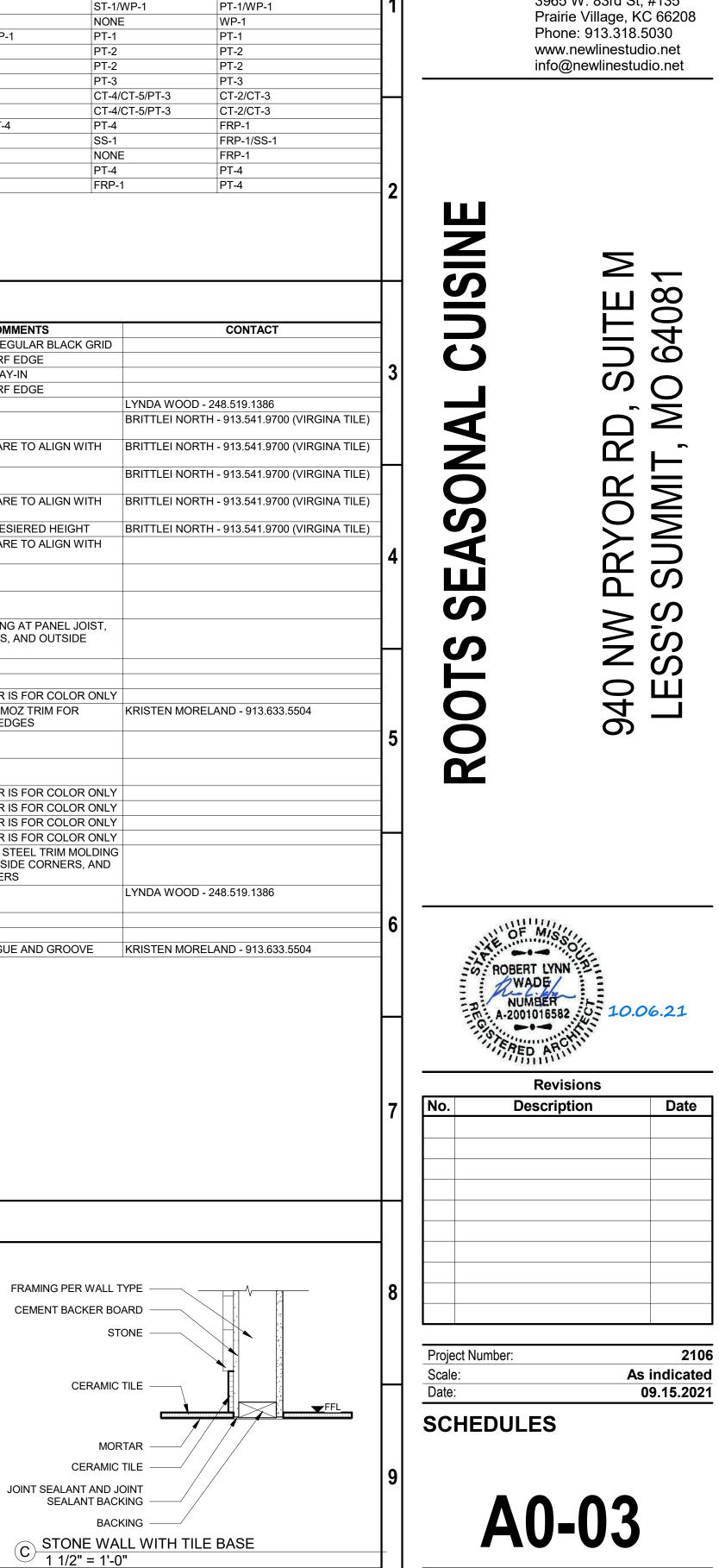
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Development Services Departmen Lee's Summit, Missouri

ARCHITECTURE New ' ARCHITECTURE + INTERIORS

Vision to Reality Begins with a NewLine

NewLine Studio, LLC 3965 W. 83rd St, #135



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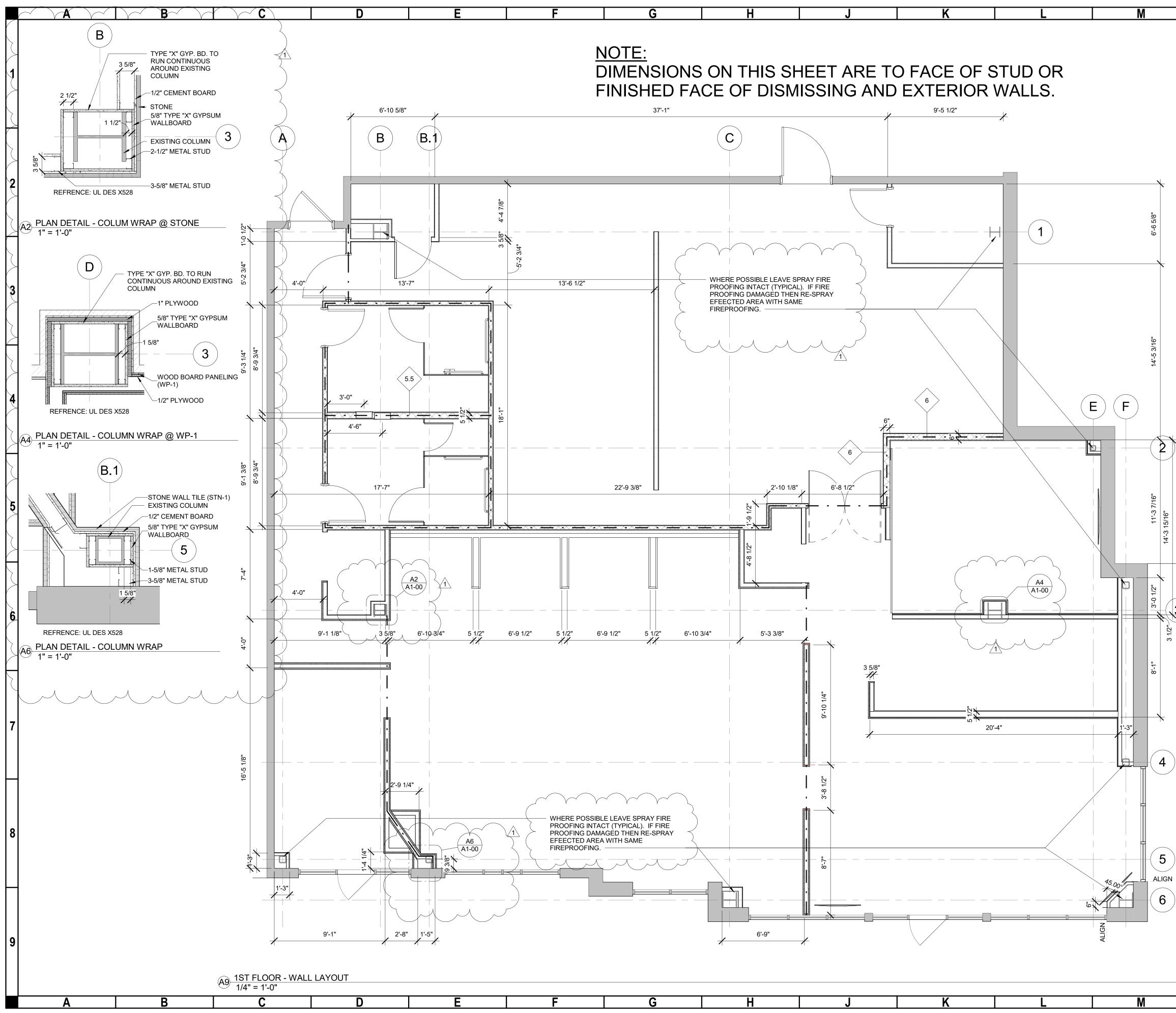
VWC-1

WP-1/STN-

EAST

ST-1/WD-2

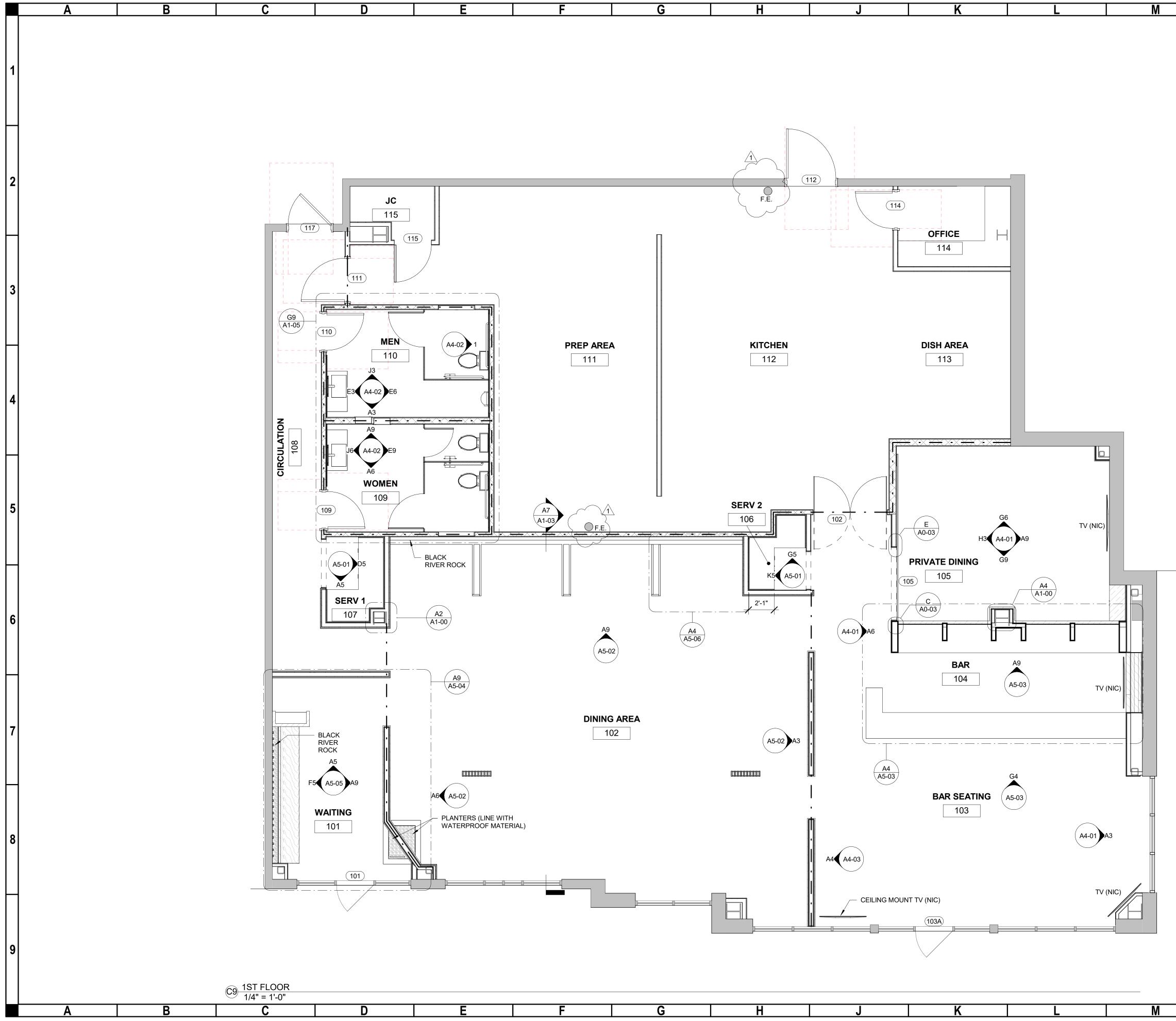
WP-1/STN-1



			RELEASED FOR CONSTRUCTION As Noted on Plans Review
N P			Development Services Departme Lee's Summit, Missouri
KEYNOTES		New	E STUCIO HITECTURE + INTERIORS
NUMBER DESCRIPTION 05 41 00.A1 1-5/8" METAL STUD 05 41 00.A2 2-1/2" METAL STUD		Nev	to Reality Begins with a NewLine
05 41 00.A2 2-1/2 METAL STOD 05 41 00.A5 3-5/8" METAL STUD 06 16 00.D6 1/2" PLYWOOD	1	Prai	5 W. 83rd St, #135 rie Village, KC 66208
06 16 00.D14 1" PLYWOOD 06 42 13 WOOD BOARD PANELING (WP-1)			ne: 913.318.5030 v.newlinestudio.net
09 28 13.A1 1/2" CEMENT BOARD 09 29 00.D11 5/8" TYPE "X" GYPSUM WALLBOARD		info	@newlinestudio.net
09 30 33.A1 STONE WALL TILE (STN-1)			
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WALL TYPES		S	NW SS'S
3 5/8" (UNO) MTL STUD WITH 1 LAYER 5/8" GYP BD ON EACH SIDE. EXTEND TO 4" ABOVE CEILING UNLESS OTHERWISE NOTED. SEE NOTES		OOTS	940 LES
3 5/8" (UNO) MTL STUD WITH 1 LAYER 5/8" GYP	5	O	0
INSULATION. EXTEND TO 4" ABOVE CEILING UNLESS OTHERWISE NOTED. SEE NOTES		R	
3-5/8" (UNO) METAL STUD WITH 1/2" PLYWOOD AND 3/8" WD BOARD PANELING ON EACH SIDE.			
3 5/8" (UNO) MTL STUD WITH 1 LAYER 5/8" GYP BD ON ONE SIDE. EXTEND TO 4" ABOVE CEILING UNLESS OTHERWISE NOTED.	\mathbb{H}		
3 5/8" (UNO) MTL STUD WITH 1 LAYER 1/2" CEMENT BD AND 1 LAYER STONE ON EACH	1		
SIDE. EXTEND TO 4" ABOVE CEILING (UNO).	6	N'OF MIS	20
NOTES:	1	6 ROBERT LYN	N 225
IN ALL WET AREAS (KITCHEN, BAR, RESTROOMS, SERVER AREAS, AND KITCHEN OFFICE) USE WATER RESISTANT GYPSUM.BD.		NUMBER	~
ALL WALLS WITH TILE OR STONE USE 1/2" CEMENT BACKER BD. INSTEAD OF GYPSUM BD.	Η	-m- A-20010165	32 :0: 10.06.21
ALL WALLS WITH WOOD PANELING USE 1/2"		RED AR	
PLYWOOD INSTEAD OF GYPSUM BD.	$\left \begin{array}{c} \\ \\ \\ \end{array} \right $	Rev No. Descri	isions ption Date
GENERAL NOTES	7	1 CODE REVIEW	10.06.21
A. WALLS ARE DIMENSIONED TO FACE OF GYPSUM WALLBOARD, FACE OF TILE BACKER BOARD, OR			
FACE OF CONCRETE AS OCCURSB. ALL GYPSUM WALLBOARD TO BE 5/8" TYPE 'X' UNLESS NOTED OTHERWISE.	Н		
C. PROVIDE 5/8" GLASS-MAT FACED WATER- RESISTANT GYPSUM WALLBOARD AT WET LOCATIONS, INCLUDING WALLS BEHIND			
PLUMBING FIXTURES AND THE BOTTOM 4' OF ALL PLUMBING WALLS AND TOILET ROOMS. D. UNLESS DIMENSIONED, DOORS ARE TO BE			
LOCATED 4" FROM NEAREST ADJACENT PERPENDICULAR WALL TO FACE OF JAMB. SEE	8		
 DOOR DETAILS. E. COORDINATE POWER AND DATA OUTLET LOCATIONS WITH ELECTRICAL AND TECHNOLOGY 			
DRAWINGS. F. OUTLETS SHOWN BACK TO BACK SHALL BE OFFSET A MINIMUM OF 18". OUTLET IN SOUND		Project Number: Scale:	2106 As indicated
PARTITIONS SHALL BE SEPERATED BY A STUD WITH ACOUSTIC PUTTY.	П	Date:	09.15.2021
G. SEAL AROUND ALL INTERIOR JOINTS AT DOORS, WINDOWS, CABINETS, AND COUNTERTOPS. SEAL ALL OPENING IN SOUND PARTITIONS WITH		PLAN - WALL	. LAYOUT
ACOUSTIC SEALANT.	9		

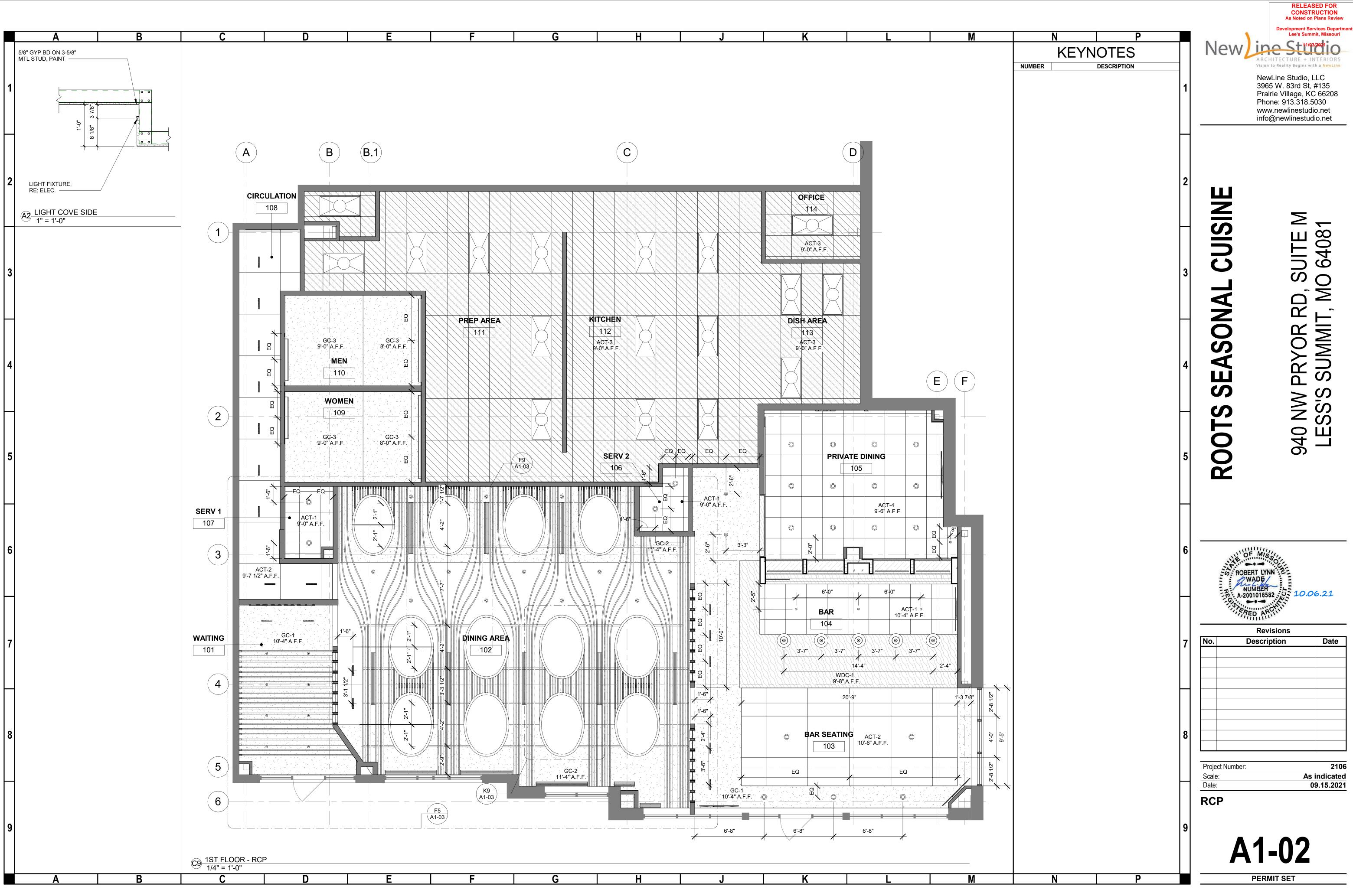
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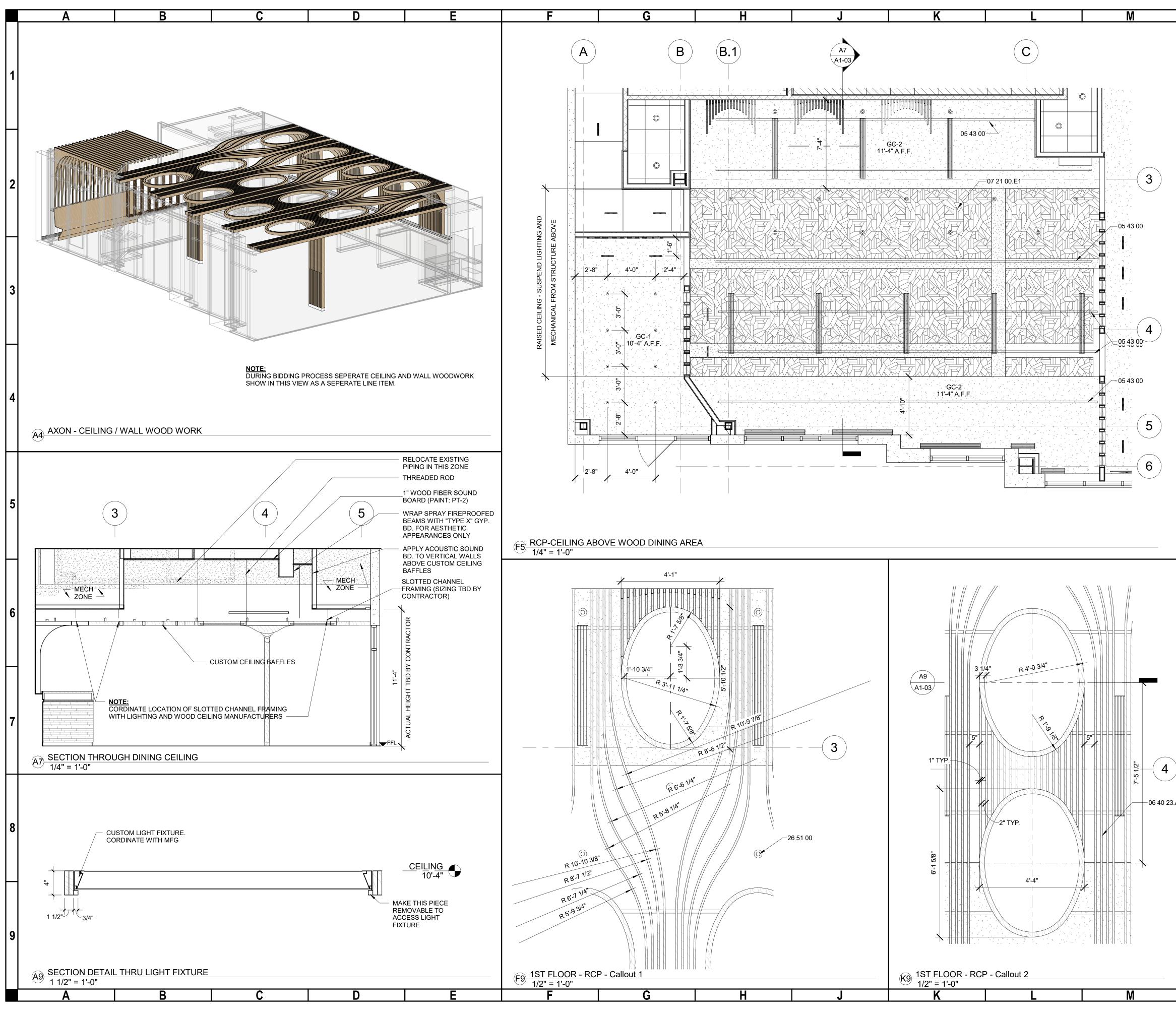
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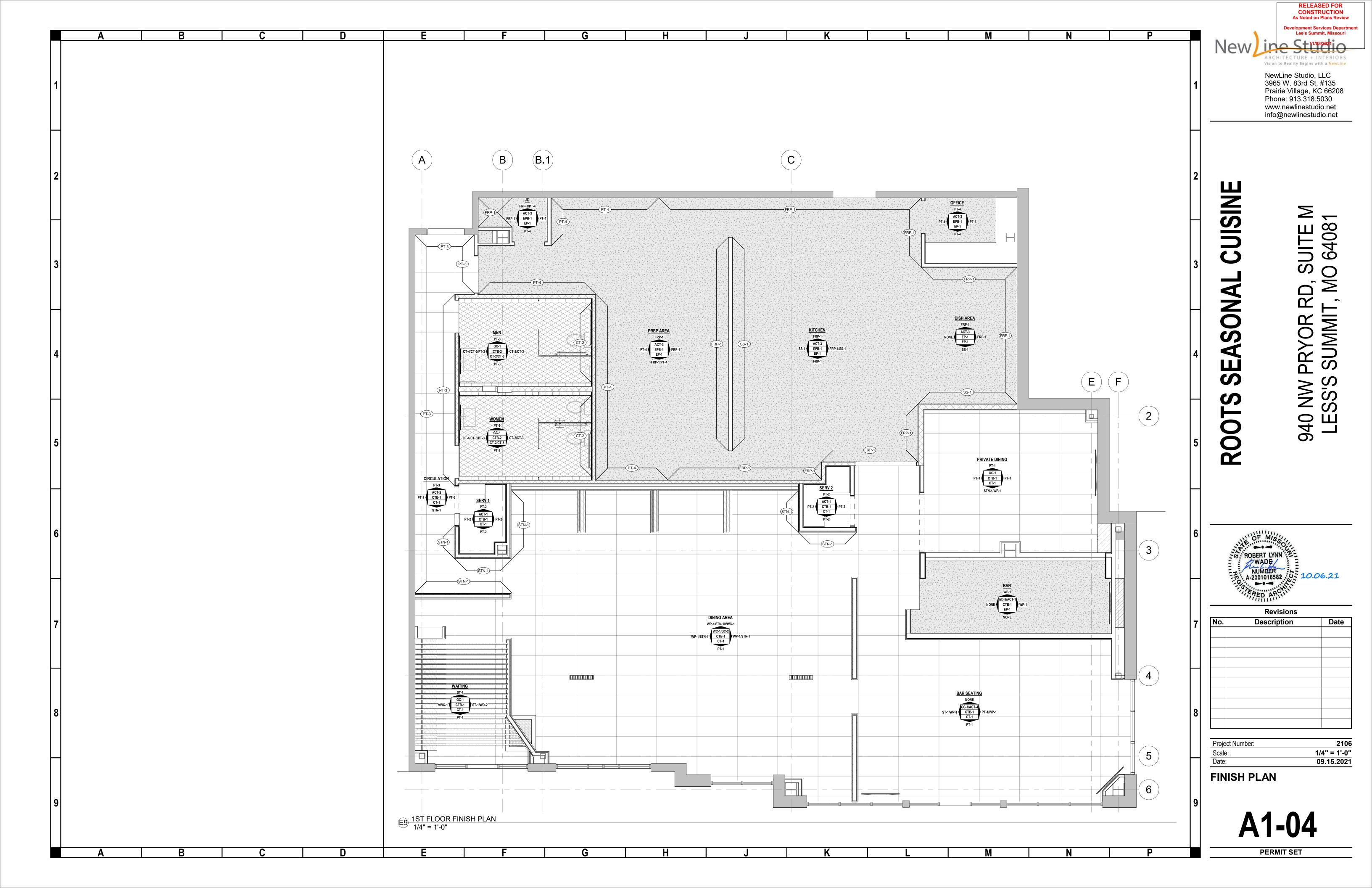
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N P KEYNOTES		New	Development Services Departm Lee's Summit, Missouri CHITECTURE + INTERIORS
NUMBER DESCRIPTION	1	N 3 F F V	sion to Reality Begins with a NewLine NewLine Studio, LLC 965 W. 83rd St, #135 Prairie Village, KC 66208 Phone: 913.318.5030 www.newlinestudio.net nfo@newlinestudio.net
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	3	CUI	RD, SUITE F, MO 6408
	4	SEASONAL	W PRYOR I S'S SUMMIT
3 5/8" (UNO) MTL STUD WITH 1 LAYER 5 BD ON EACH SIDE. EXTEND TO 4" ABO CEILING UNLESS OTHERWISE NOTED. NOTES 3 5/8" (UNO) MTL STUD WITH 1 LAYER 5 BD ON EACH SIDE WITH ACOUSTICAL 5 BD ON EACH SIDE WITH ACOUSTICAL 5 INSULATION. EXTEND TO 4" ABOVE CE UNLESS OTHERWISE NOTED. SEE NOT 3-5/8" (UNO) METAL STUD WITH 1/2" PLYWOOD AND 3/8" WD BOARD PANEL	5/8" GYP SOUND EILING TES	ROOTS	940 NW LESS'S
ON EACH SIDE. 3 5/8" (UNO) MTL STUD WITH 1 LAYER 5 BD ON ONE SIDE. EXTEND TO 4" ABOV CEILING UNLESS OTHERWISE NOTED. 3 5/8" (UNO) MTL STUD WITH 1 LAYER 1 CEMENT BD AND 1 LAYER STONE ON E SIDE. EXTEND TO 4" ABOVE CEILING (U DENOTES EXTEND TO DECK ABOVE NOTES:	/E /2" EACH	OF A	IVNN P
 IN ALL WET AREAS (KITCHEN, BAR, RESTRO SERVER AREAS, AND KITCHEN OFFICE) USE WATER RESISTANT GYPSUM.BD. ALL WALLS WITH TILE OR STONE USE 1/2" CI BACKER BD. INSTEAD OF GYPSUM BD. ALL WALLS WITH WOOD PANELING USE 1/2" PLYWOOD INSTEAD OF GYPSUM BD. GENERAL NOTES 		NUME A-20010 FRED	Revisions cription Date
 A. WALLS ARE DIMENSIONED TO FACE OF GYP WALLBOARD, FACE OF TILE BACKER BOARD FACE OF CONCRETE AS OCCURS B. ALL GYPSUM WALLBOARD TO BE 5/8" TYPE ' UNLESS NOTED OTHERWISE. C. PROVIDE 5/8" GLASS-MAT FACED WATER- RESISTANT GYPSUM WALLBOARD AT WET LOCATIONS, INCLUDING WALLS BEHIND PLUMBING FIXTURES AND THE BOTTOM 4' O PLUMBING WALLS AND TOILET ROOMS. D. UNLESS DIMENSIONED, DOORS ARE TO BE LOCATED 4" EPOM NEADEST AD LOCENT), OR 'X'		
 LOCATED 4" FROM NEAREST ADJACENT PERPENDICULAR WALL TO FACE OF JAMB. DOOR DETAILS. E. COORDINATE POWER AND DATA OUTLET LOCATIONS WITH ELECTRICAL AND TECHNO DRAWINGS. F. OUTLETS SHOWN BACK TO BACK SHALL BE OFFSET A MINIMUM OF 18". OUTLET IN SOU PARTITIONS SHALL BE SEPERATED BY A STU WITH ACOUSTIC PUTTY. G. SEAL AROUND ALL INTERIOR JOINTS AT DOO WINDOWS, CABINETS, AND COUNTERTOPS. ALL OPENING IN SOUND PARTITIONS WITH 	SEE DLOGY ND UD ORS,	Project Number: Scale: Date: 1ST FLOOR	210 As indicated 09.15.202 R PLAN
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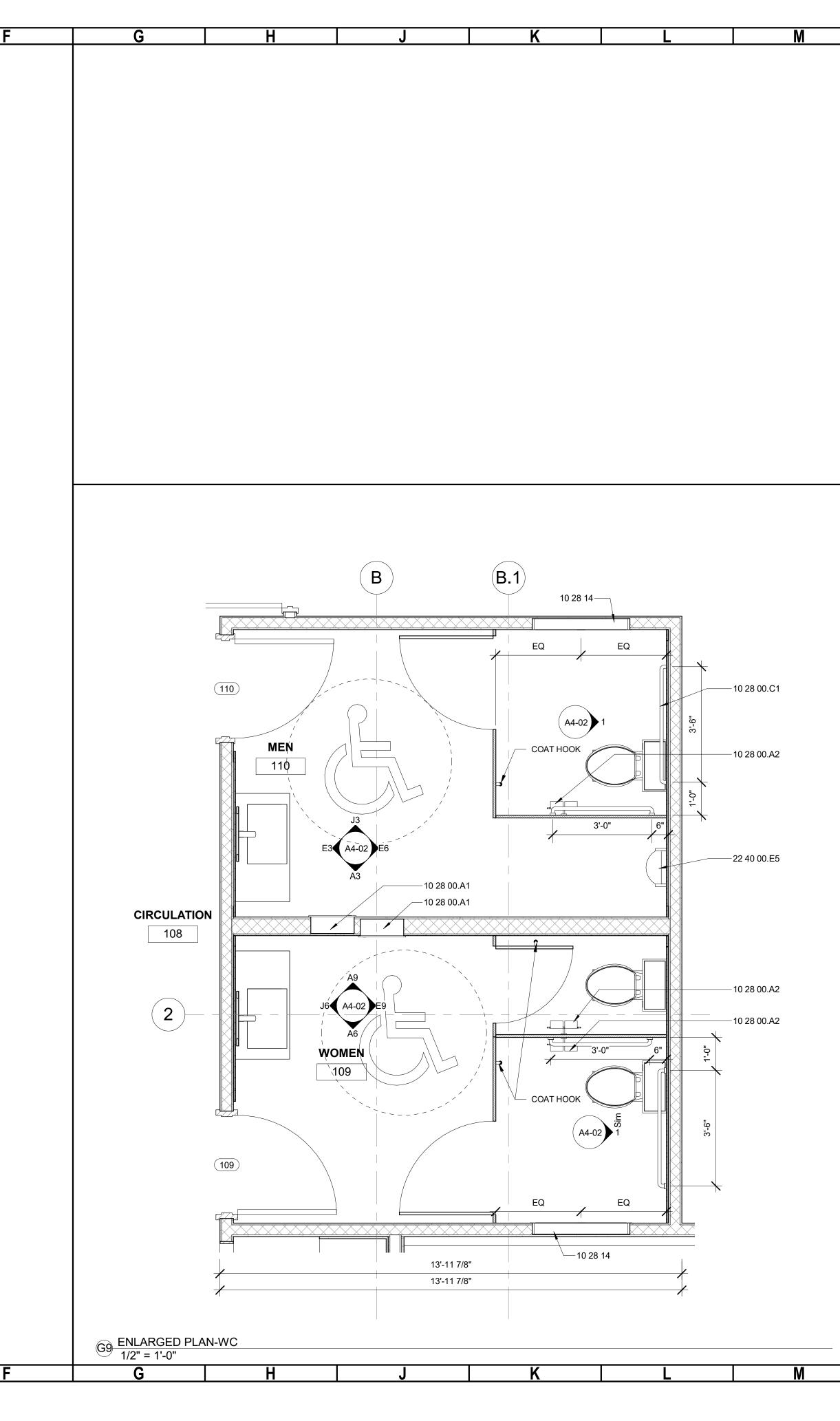




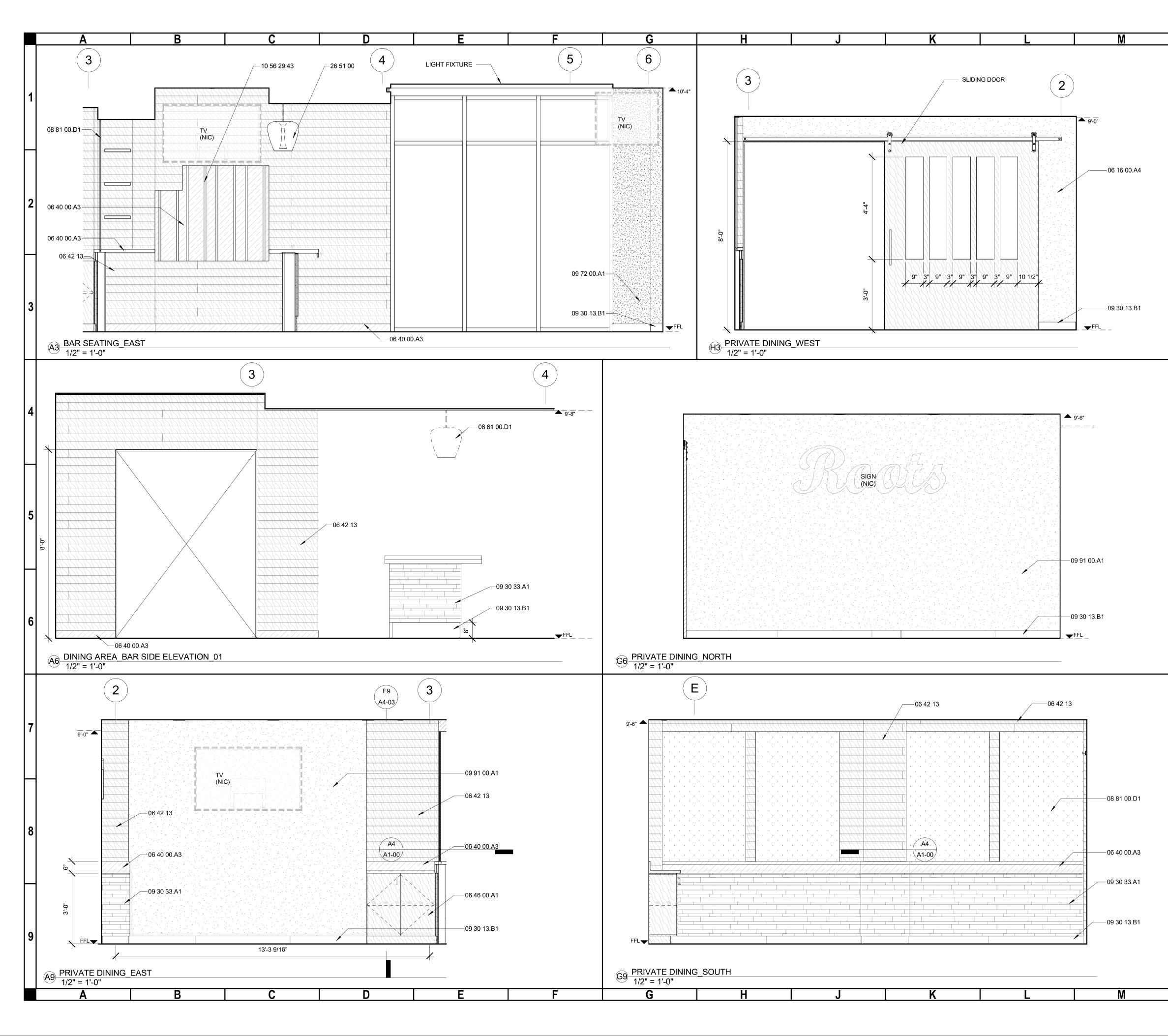
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07 2 26 5	1 00.E1	VELVET ELM (15 1" WOOD FIBER LIGHTING (RE: E	SOUND BOARD (PAINT:	PT-2)	Pi w	hone: 913.318.5030 ww.newlinestudio.net
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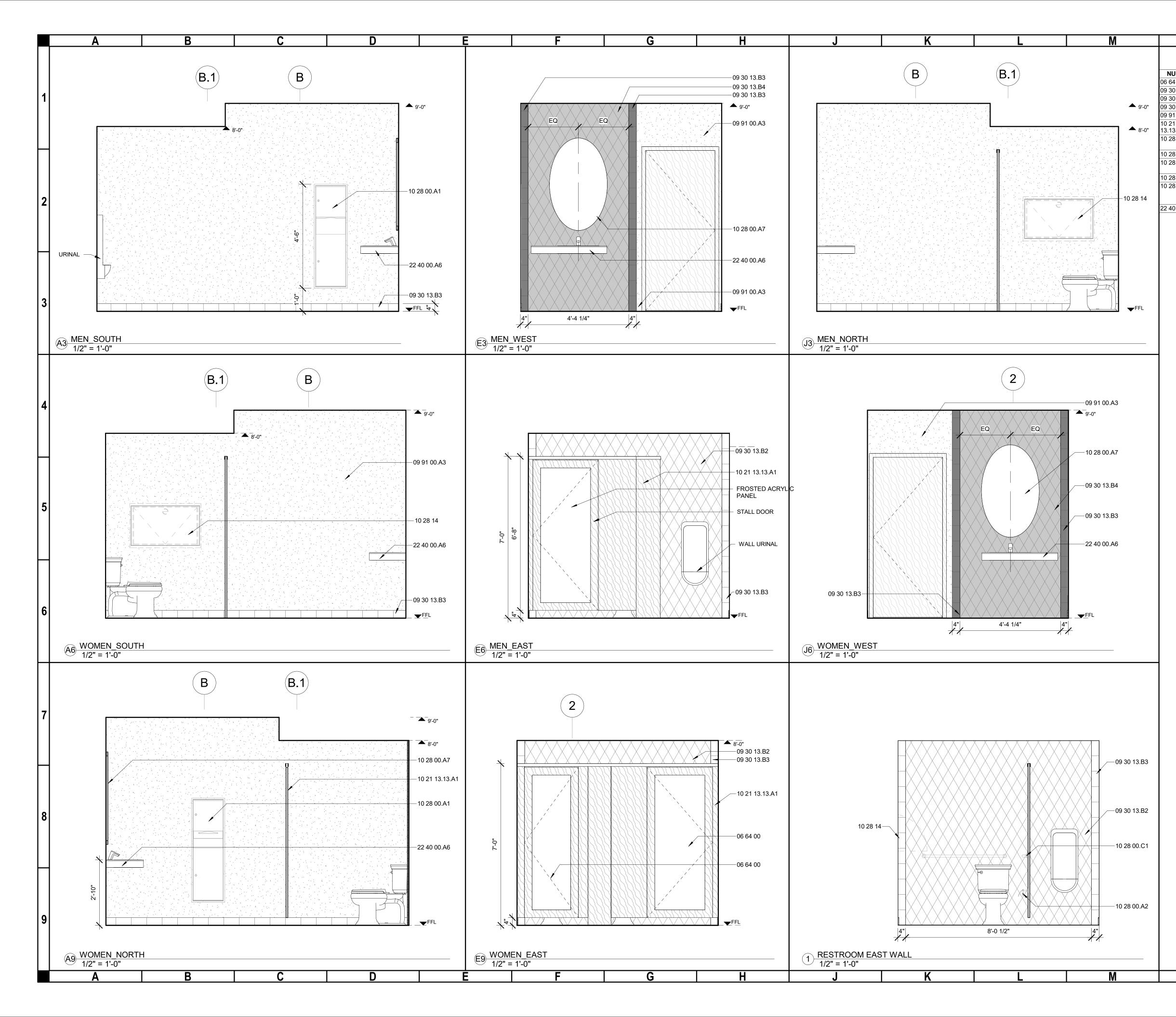
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NUMBER 10 28 00.A1	PAPER TOWEL [DESCRIPTION DISPENSER / TRASH		A R Visi	on to Reality Begins with a NewLine
10 28 00.A2 10 28 00.C1 10 28 14	GRAB BAR BABY CHANGING HORIZONTAL ST RECESSED-MOU	DISPENSER - MFG-ASI, # 7315-H G STATION - KB310-SSRE AINLESS STEEL	1	39 Pr Pł w	ewLine Studio, LLC 065 W. 83rd St, #135 rairie Village, KC 66208 none: 913.318.5030 ww.newlinestudio.net fo@newlinestudio.net
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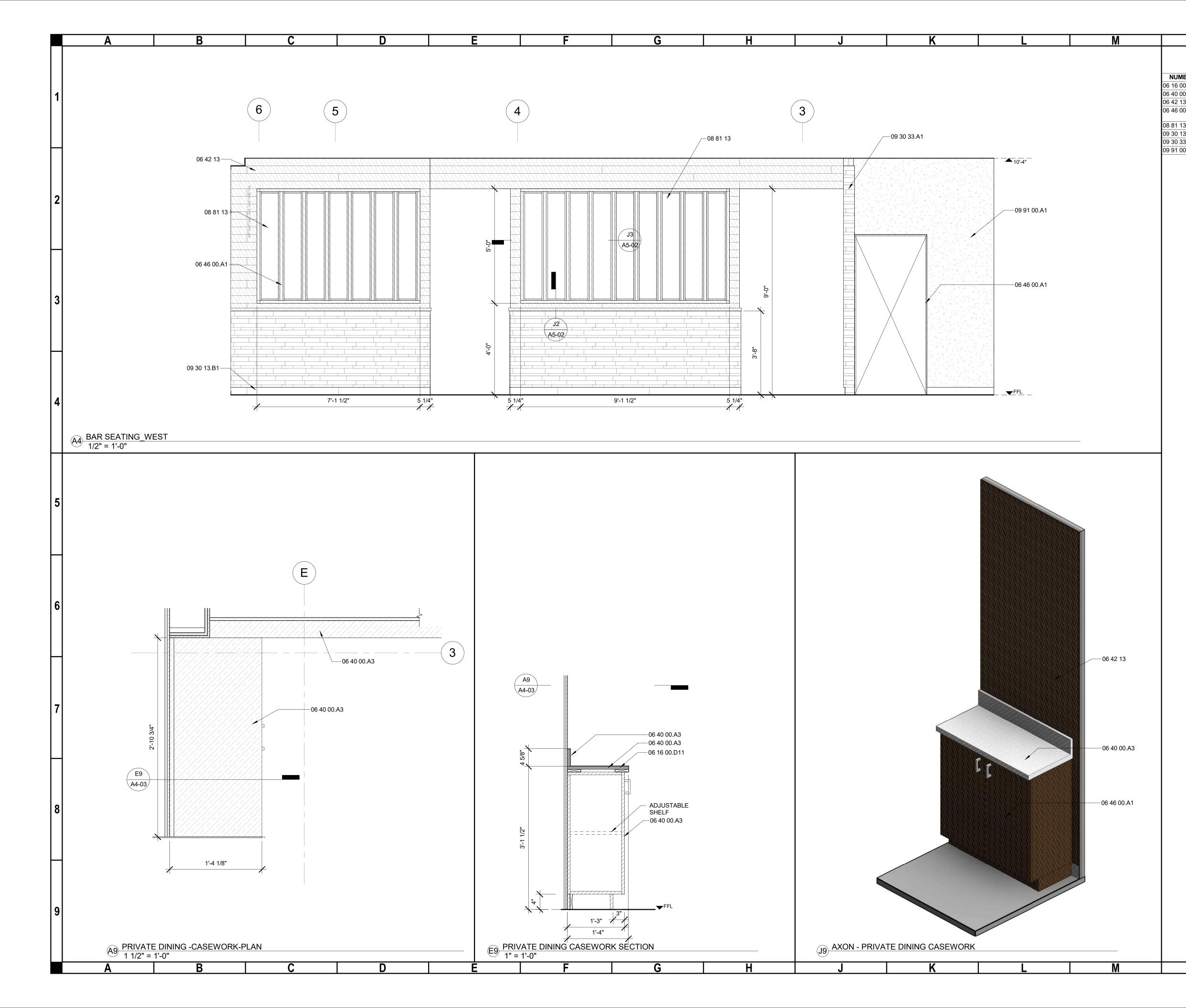


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06 16 00.A4 06 40 00.A3 06 42 13 06 46 00.A1	5/8" GYPSUM SH METAL LAMINAT WOOD BOARD P WOOD TRIM - PL	EATHING E (ML-1) ANELING (WP-1		1		NewLine Studi 3965 W. 83rd Prairie Village,	o, LLC St, #135
08 81 00.D1	MATCHING VENE LAMINATED GLA FROSTED VINYL	EER (STAIN TO M	/ATCH WP-1)			Phone: 913.31 www.newlinest info@newlines	8.5030 .udio.net
09 30 13.B1 09 30 33.A1 09 72 00.A1	CERAMIC TILE (STONE WALL TIL VINYL WALL CO	E (STN-1))				
09 91 00.A1 10 56 29.43	PT-1 WINE STORAGE MFG-VINTAGE V (3) #WS43. PRO MOUNTING AS R	IEW, COLOR BL/ VIDE BLOCKING	ACK, (1) #WS33,				
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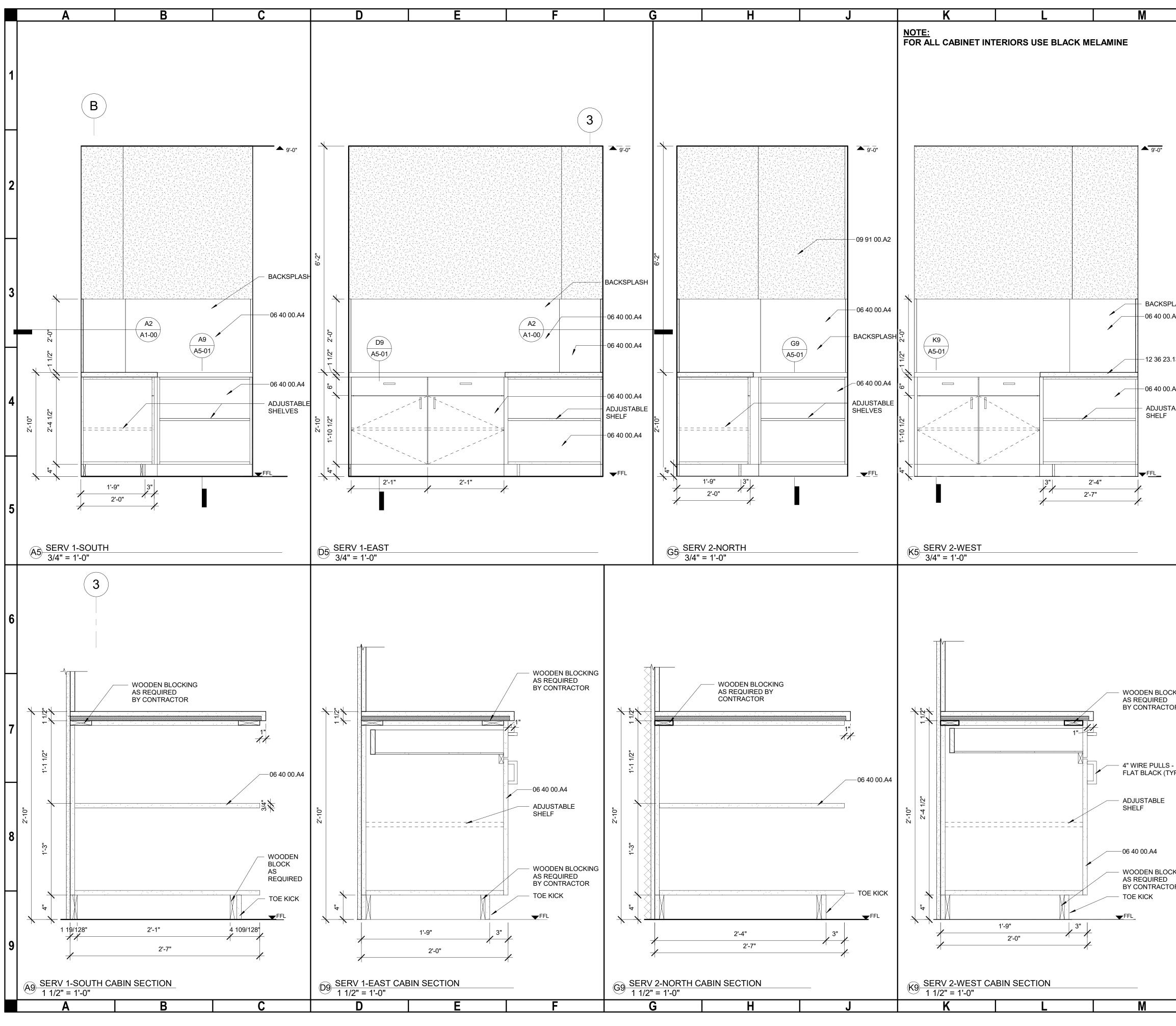


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64 00 30 13.B2	ACRYLIC PANEL CERAMIC TILE (0	CT-2)			ewLine Studio, LLC
30 13.B3 30 13.B4	CERAMIC TILE (C		1	Р	965 W. 83rd St, #135 rairie Village, KC 66208
91 00.A3 21		DN - MFG-IRONWOOD, DOOR	-	W	hone: 913.318.5030 ww.newlinestudio.net
.13.A1 28 00.A1		LAMINATE, COLOR-TBD DISPENSER / TRASH FG-ASL 6462)		IN	fo@newlinestudio.net
28 00.A2 28 00.A7	TOILET TISSUE	DISPENSER - MFG-ASI, # 7315 PARIS MIRROR - OVAL	-H		
28 00.C1), USE DIMMER SWITCH)			
28 14	BABY CHANGING HORIZONTAL ST RECESSED-MOU				
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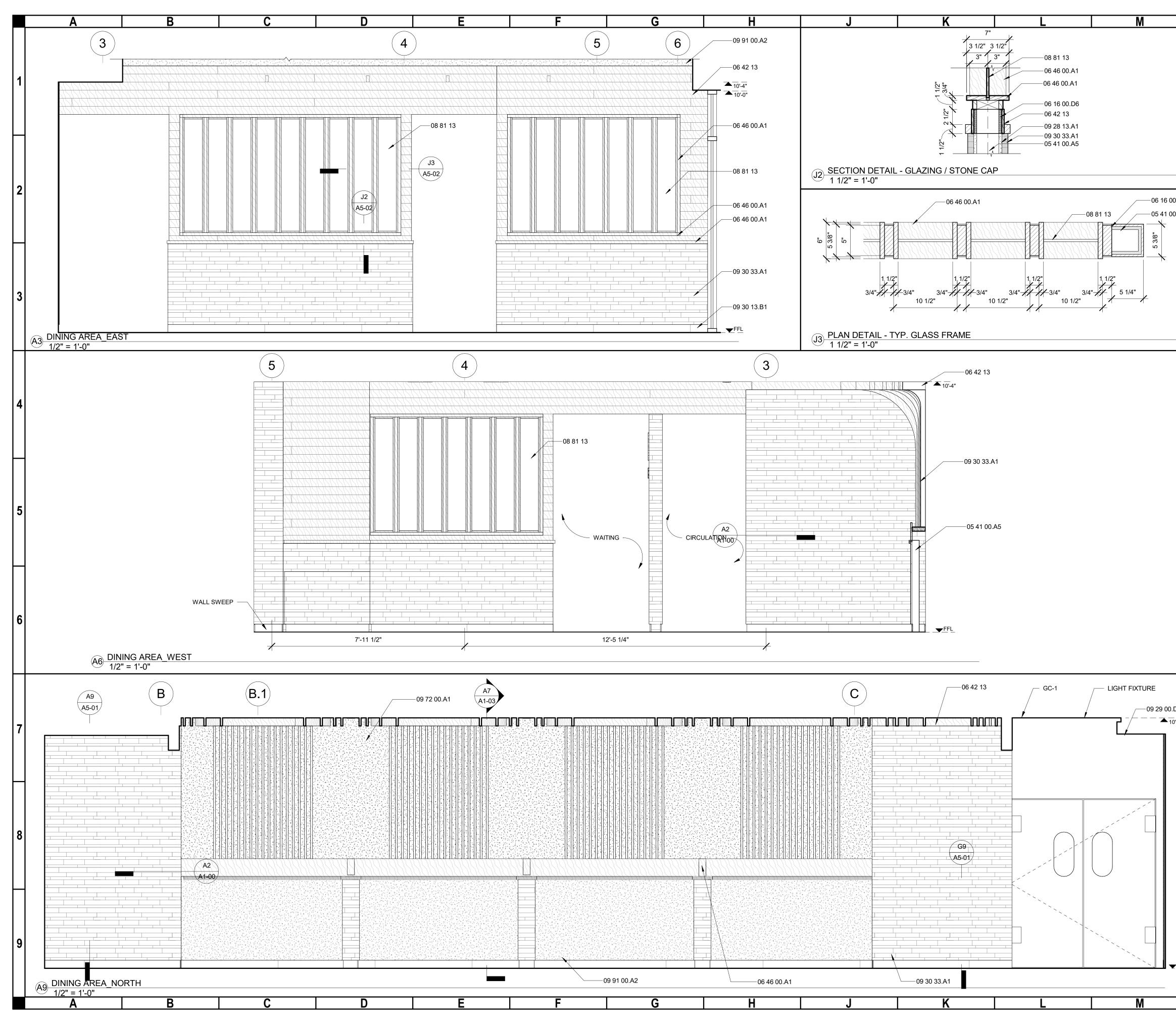
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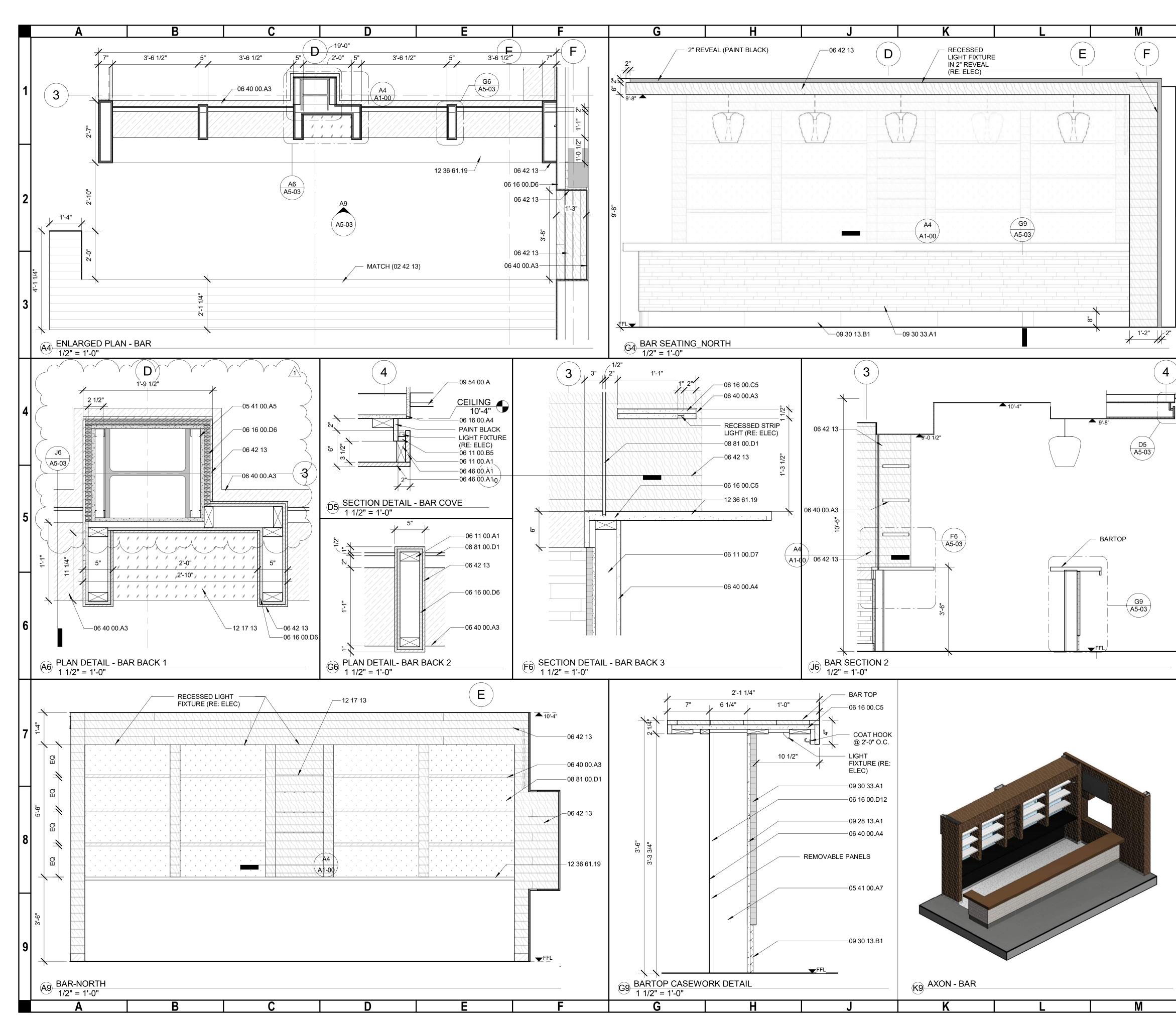
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	N P KEYNOTES		New	Development Services Department Lee's Summit, Missouri
MBER 00.D11 00.A3 13 00.A1 13 13.B1	DESCRIPTION 3/4" PLYWOOD METAL LAMINATE (ML-1) WOOD BOARD PANELING (WP-1) WOOD TRIM - PLAIN SLICED WHITE MAPLE O MATCHING VENEER (STAIN TO MATCH WP-1) ETCHED GLASS CERAMIC TILE (CT-1)		A V C C C C C C C C C C C C C C C C C C	NewLine Studio, LLC Section to Reality Begins with a NewLine NewLine Studio, LLC Section 2015 W. 83rd St, #135 Prairie Village, KC 66208 Phone: 913.318.5030 www.newlinestudio.net nfo@newlinestudio.net
33.A1 00.A1	STONE WALL TILE (STN-1) PT-1	2		
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		3		RD, SUITE , MO 640
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	06 40 00.A4 09 91 00.A2 12 36 23.13	PLASTIC LAMINATE (PLAM-2) PT-2 PLASTIC-LAMINATE-CLAD CC		396 Pra Pho ww	wLine Studio, LLC 55 W. 83rd St, #135 airie Village, KC 66208 one: 913.318.5030 w.newlinestudio.net o@newlinestudio.net
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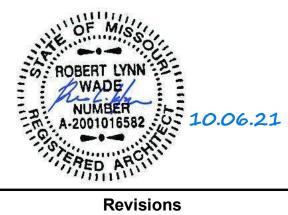
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		KEYN	OTES		New	RCHITECTURE + INTERIORS
	NUMBER 05 41 00.A5	3-5/8" METAL ST	DESCRIPTION			ion to Reality Begins with a <mark>NewLine</mark>
	06 16 00.D6	1/2" PLYWOOD				ewLine Studio, LLC 965 W. 83rd St, #135
	06 42 13 06 46 00.A1		PANELING (WP-1) AIN SLICED WHITE MAPLE	1	Р	rairie Village, KC 66208
	08 81 13		EER (STAIN TO MATCH WP			hone: 913.318.5030 ww.newlinestudio.net
	09 28 13.A1	1/2" CEMENT BC	ARD			fo@newlinestudio.net
	09 29 00.D1 09 30 13.B1	5/8" GYPSUM WA				
	09 30 33.A1	STONE WALL T	LE (STN-1)			
	09 72 00.A1 09 91 00.A2	VINYL WALL CO PT-2	VERING (VWC-1)			
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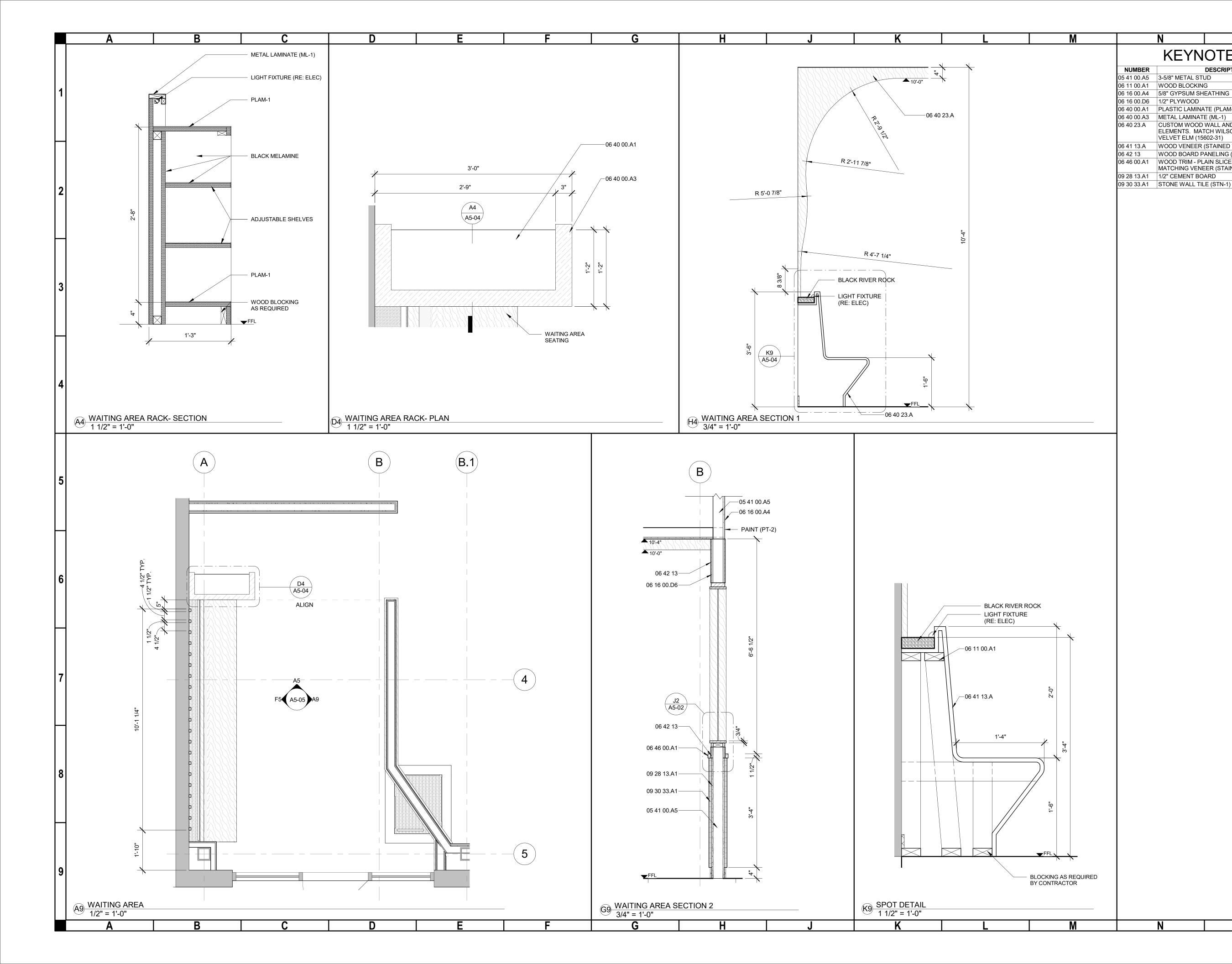
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Development Services Department Lee's Summit, Missouri

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	05 41 00.A5 05 41 00.A7	3-5/8" METAL STU 5-1/2" METAL STU	JD		Ne	wLine Studio, LLC
1	06 11 00.A1 06 11 00.B5	WOOD BLOCKING		1		65 W. 83rd St, #135 airie Village, KC 66208
	06 11 00.D3 06 11 00.D7 06 16 00.A4	2X4 STUDS 5/8" GYPSUM SH			Ph	one: 913.318.5030 w.newlinestudio.net
	06 16 00.A4 06 16 00.C5 06 16 00.D6	3/4" PARTICLEBC				o@newlinestudio.net
	06 16 00.D12	3/4" EXTERIOR G				
	06 40 00.A3 06 40 00.A4	METAL LAMINAT	TE (PLAM-2)			
	06 42 13 06 46 00.A1		ANELING (WP-1) AIN SLICED WHITE MAPLE ER (STAIN TO MATCH WF			
	08 81 00.D1		SS WITH CUSTOM GRAPH			
	09 28 13.A1 09 30 13.B1	1/2" CEMENT BO CERAMIC TILE (C	ARD		ш	
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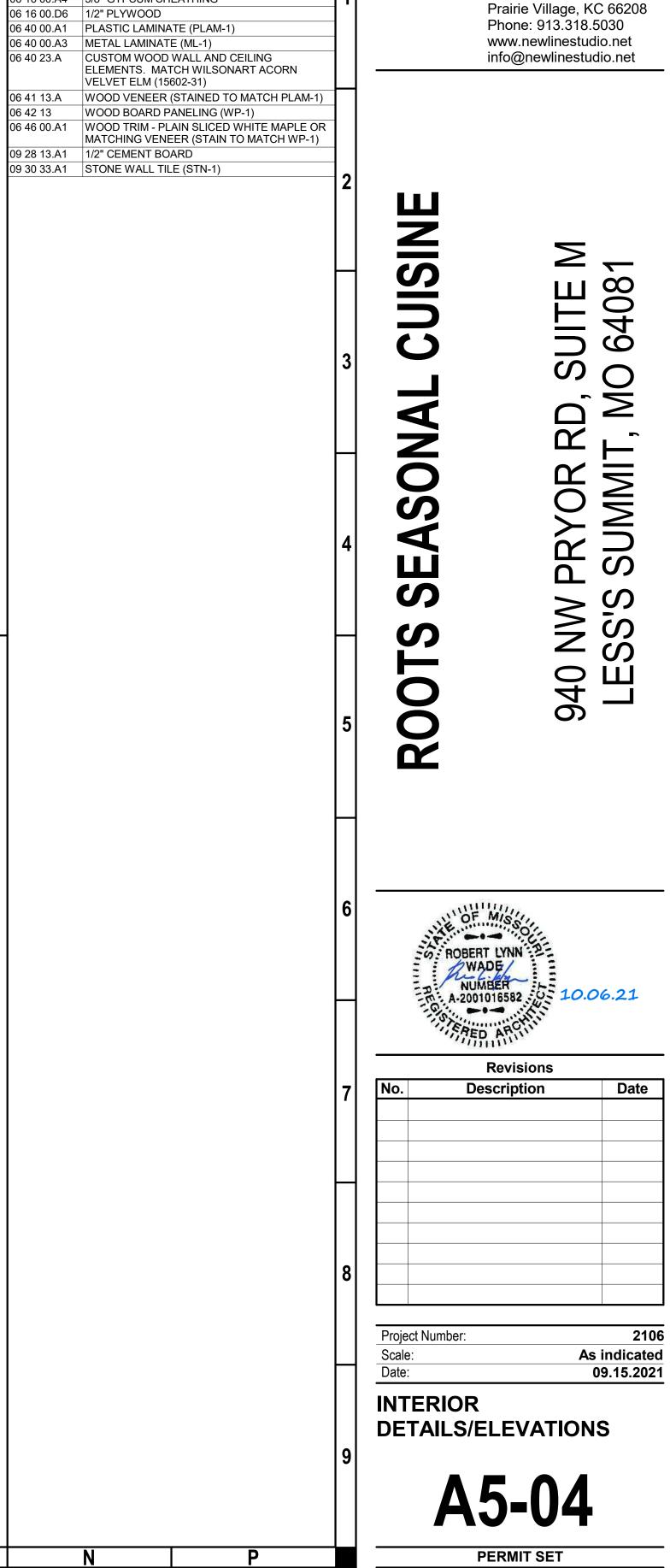
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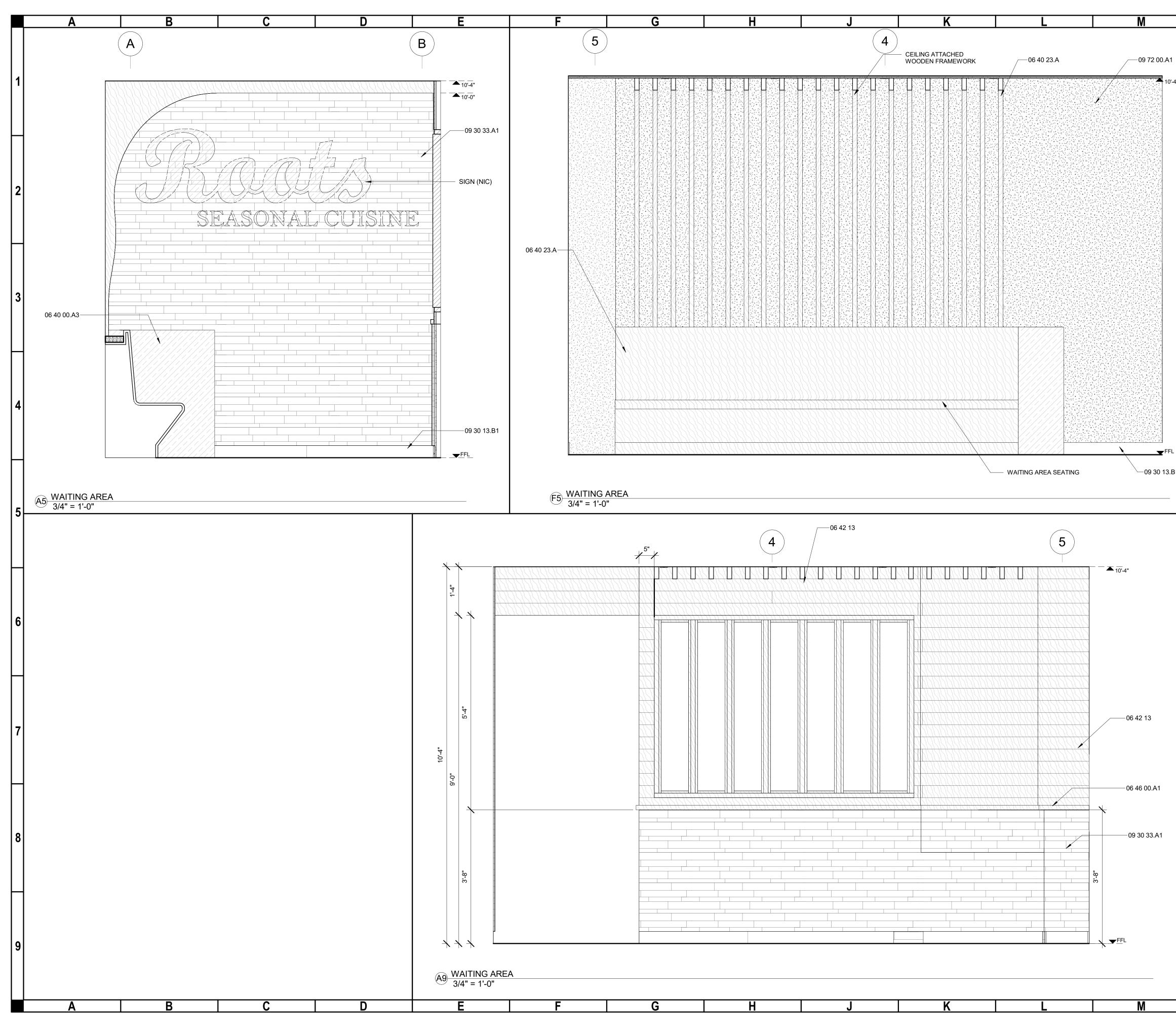
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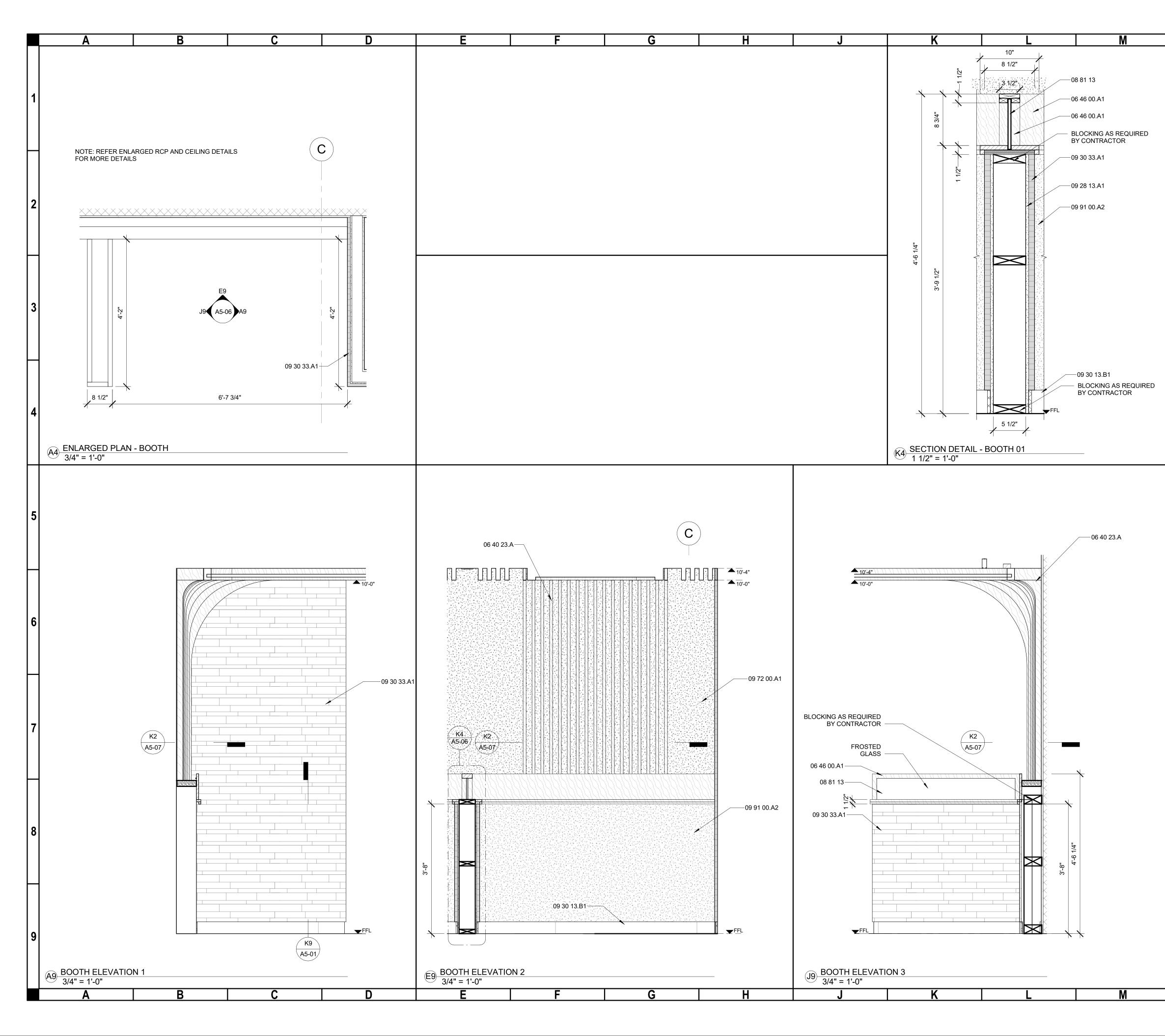
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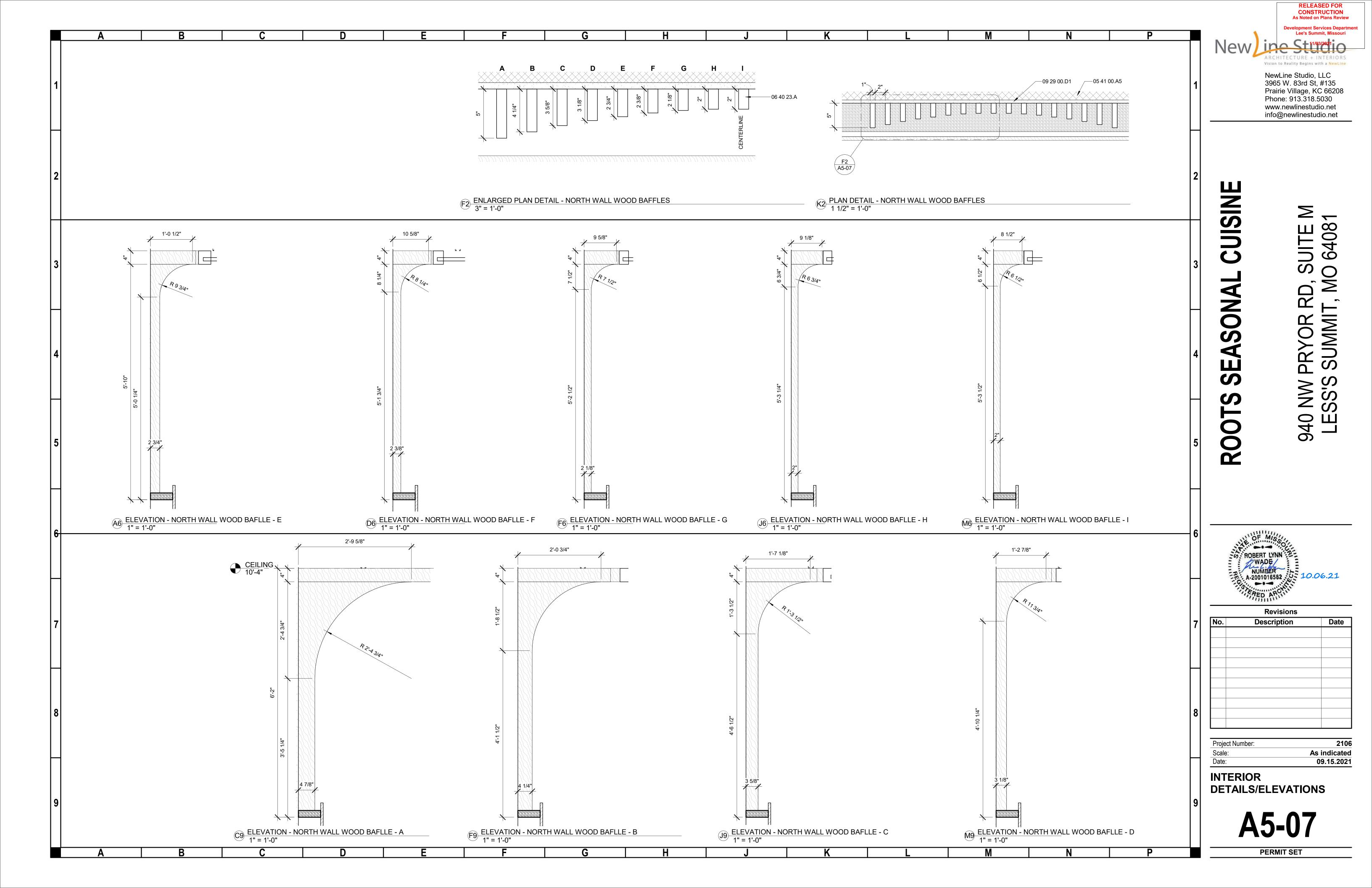


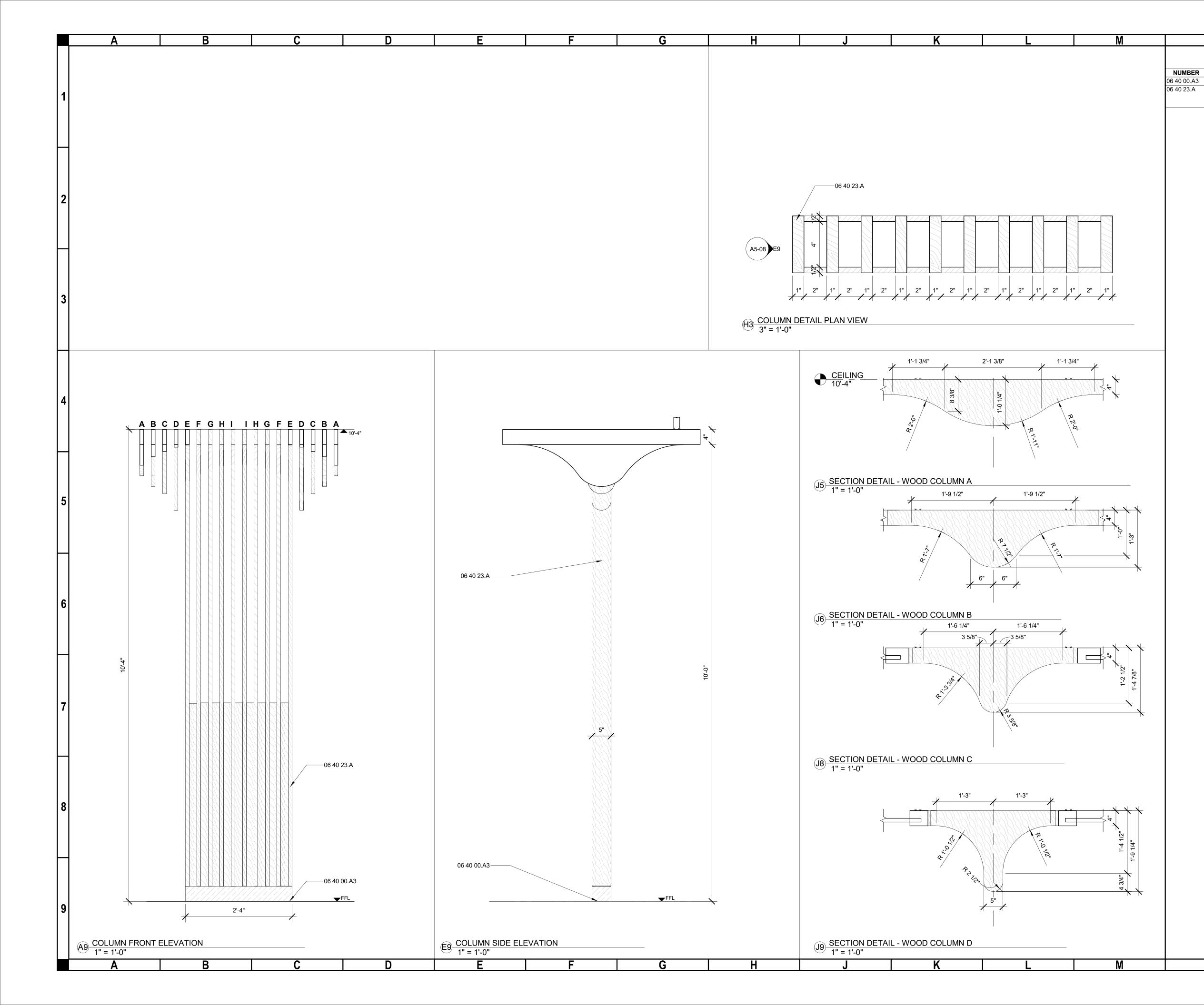


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	N P KEYNOTES		New	Development Services Department Lee's Summit, Missouri
1 '-4"	NUMBERDESCRIPTION06 40 00.A3METAL LAMINATE (ML-1)06 40 23.ACUSTOM WOOD WALL AND CEILING ELEMENTS. MATCH WILSONART ACORN VELVET ELM (15602-31)06 42 13WOOD BOARD PANELING (WP-1)06 46 00.A1WOOD TRIM - PLAIN SLICED WHITE MAPLE OR MATCHING VENEER (STAIN TO MATCH WP-1)09 30 13.B1CERAMIC TILE (CT-1)09 30 33.A1STONE WALL TILE (STN-1)09 72 00.A1VINYL WALL COVERING (VWC-1)	1	Ne 396 Pra Pho ww	n to Reality Begins with a NewLine wLine Studio, LLC 35 W. 83rd St, #135 airie Village, KC 66208 one: 913.318.5030 w.newlinestudio.net o@newlinestudio.net
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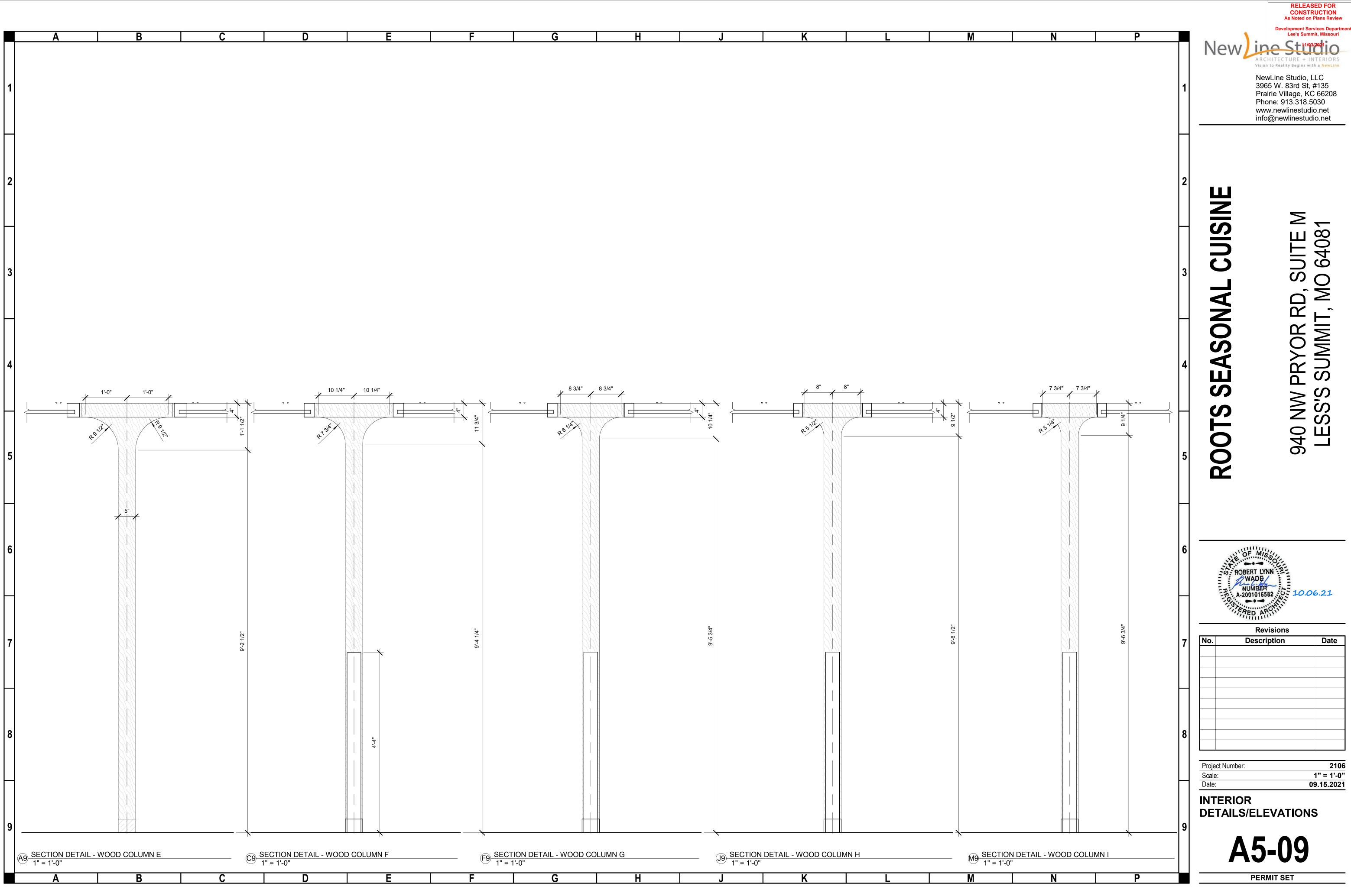


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2 3 A 3 3 A 4 4 A 5 COLOR COLOR 6 Forestore Color 7 Forestore Color 8 Project Number: 2100 9 Project Number: 2100 1 A Color 8 Project Number: 2100 9 Project Number: 2100 1 A Color 1 A <	09 72 00.A1	VINYL WALL COVERING (VWC-1)			
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			RELEASED FOR CONSTRUCTION As Noted on Plans Review
N P KEYNOTES		New	Development Services Department Lee's Summit, Missouri
DESCRIPTIONMETAL LAMINATE (ML-1)CUSTOM WOOD WALL AND CEILINGELEMENTS. MATCH WILSONART ACORNVELVET ELM (15602-31)	1	v G F F V	Ision to Reality Begins with a NewLine NewLine Studio, LLC 3965 W. 83rd St, #135 Prairie Village, KC 66208 Phone: 913.318.5030 www.newlinestudio.net nfo@newlinestudio.net
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MECHANICAL SPECIFICATIONS	MECHANICAL SPECIFICATIONS (CONTINUED)	MEC
 GENERAL PROVISIONS: A. PROVIDE ALL LABOR. MATERIALS, EQUIPMENT, NECESSARY FOR THE COMPLETE INSTALLATION OF THE 	7. PIPING: A. DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATING (ABOVEGROUND).	8. WATER HEATERS
PLUMBING AND MECHANICAL SYSTEMS OUTLINED. B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR	 TYPE L HARD DRAWN COPPER TUBING, ASTM B-88. a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B15 ALLOY C12200. ANSI B16.22. MS5 SP-104. b) WEGUNANICAL EPERS COPPER FITTINGS FOR USE IN PULLWEING OF MEGUNANICAL APPLICATIONS. ASME B16.22. 	A. GAS-FIRED, TANKLESS, D 1) STANDARD: ANSI Z21.10
APPROVAL AS REQUIRED BY THE AUTHORITIES. C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS	b) MECHANICAL PRESS COPPER FITTINGS FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS. ASME B16.22, ASME B16.51, or ASME B16.18. MECHANICAL PRESS COPPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR ASME B16.51.	APPLICATION. 2) CONSTRUCTION: COPP
OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE. D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK.	2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING SHALL BE MANUFACTURED TO THE REQUIREMENTS OF ASTM F876 AND MEET THE STANDARD GRADE HYDROSTATIC PRESSURE RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANCE WITH TR-4/03.	POTABLE WATER, WITH a) PRESSURE RATING
E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED	(MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE) a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSF312 STANDARDS FOR POTABLE WATER SAFETY AND LEAD-FREE STANDARDS AND MUST BE MARKED WITH "PW-G", "NSF-61-G" OR OTHER NSF-APPROVED	b) HEAT EXCHANGER: c) INSULATION: COMP
TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL ACCEPTANCE.	MARKING. ASTM F2023 FOR USE WITH CHLORINATED WATER. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE) b) PEX MECHANICAL, CRIMP/INSERT OR EXPANSION FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S	d) JACKET: METAL, W e) BURNER: FOR USE f) AUTOMATIC IGNITIO
F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE	INSTRUCTIONS. PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE, INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER FOR SUPPLY MAINS. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE)	g) TEMPERATURE CO 3) SUPPORT: BRACKET I
MAINTAINED. G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR	 a) TO BE INSTALLED ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE. b) TO BE INSTALLED ON THE WATER SUPPLY SIDE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT. 	B. DOMESTIC-WATER EXPA
FROM FINAL ACCEPTANCE. 2. OPERATION AND MAINTENANCE MANUALS:	 c) TYPES: 1. GATE VALVE: JOMAR T/S-301G OR EQUAL. LEAD-FREE NSF 61, ANSI B1.20.1. 2. GLOBE VALVE: JOMAR TGG OR EQUAL. 	1) DESCRIPTION: STEEL FACTORY-INSTALLED SYSTEM-OPERATING
A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.	 BALL VALVE: JOMAR JP100PXP OR EQUAL COMPACT LEAD FREE BRASS BALL VALVE. UL842, CSA 3371-12 & 3371-92, FM, CALIFORNIA CODE AB1953, NSF61 ANNEX & APPROVED. BALL VALVE: JOMAR T-100NE OR EQUAL. UL842, FM, CSA, NSF 61-8, MSS SP-110 	2) CONSTRUCTION: a) TAPPINGS: FACTO INCLUDE ACMERT
B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS.	B. LEAD CONTENT OF WATER SUPPLY PIPE AND FITTINGS:	INCLUDE ASME B1. b) INTERIOR FINISH: (TANK LININGS, INC
C. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE BOUND IN A 3-RING BINDER AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER,	 PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, UTILIZED IN THE WATER SUPPLY SYSTEM SHALL NOT HAVE MORE THAN 8% LEAD CONTENT. PIPE, PIPE FITTINGS, JOINTS, VALVES, FAUCETS, AND FIXTURE FITINGS UTILIZED TO SUPPLY WATER FOR 	C) AIR-CHARGING VA 3) CAPACITY AND CHAR
CONTRACTORS, ETC. 3. MANUFACTURERS:	2) FIFE, FIFE FITTINGS, JOINTS, VALVES, FAULETS, AND FIXTURE FITTINGS UTILIZED TO SUFFLY WATER FOR DRINKING OR COOKING PURPOSES SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED AVERAGE LEAD CONTENT OF 0.25% OR LESS.	a) WORKING-PRESSU
A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS	C. SANITARY SEWER, GREASE WASTE, AND VENTS. (UNDERGROUND, INTERIOR TO THE BUILDING).	
LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.	 ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION 	
4. MOTORS:	FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628 FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235. 2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:	
A. PROVIDE THERMAL OVERLOAD PROTECTION FOR EACH MOTOR PROVIDED BY THIS WORK.5. TESTING, BALANCING, AND CLEANING:	PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO	
A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR COVERED WITH INSULATION.	ASTM F 891. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. 3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM:	
B. SEWER AND VENT PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF HEAD FOR A PERIOD OF NOT LESS THAN 15 MINUTES, PER THE LOCAL PLUMBING CODE, WITH NO LEAKS.	PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION	
C. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 60 PSI, FOR A PERIOD OF NOT LESS THAN 2	MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. 4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE	
HOURS, WITH NO LEAKS. D. NATURAL GAS PIPING SHALL BE PNEUMATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 50 PSI, FOR A PERIOD OF NOT LESS THAN 2	MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL. 5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS	
HOURS, WITH NO LEAKS. E. DUCTWORK AND PIPING SHALL BE BALANCED BY QUALIFIED INDEPENDENT BALANCING PERSONNEL WHO HAVE	SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.	
PREVIOUS EXPERIENCE WITH BALANCING PROCEDURES AND ARE CERTIFIED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB).	(ABOVE GROUND, INTERIOR TO THE BUILDING). 1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:	
 BALANCING SHALL INCLUDE THE BALANCING OF THE EQUIPMENT AND AIR DISTRIBUTION SYSTEMS TO PROVIDE DESIGN QUANTITIES INDICATED AND VERIFICATION OF PERFORMANCE OF ALL EQUIPMENT AND AUTOMATIC CONTROLS. 	PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628	
2) WITH IN 30 DAYS OF THE COMPLETION OF THE TESTING AND BALANCING WORK, SUBMIT THE TEST AND BALANCING REPORT BEARING THE SIGNATURE OF THE TEST AND BALANCE ENGINEER. THE REPORTS SHALL BE CERTIFIED PROOF THAT THE SYSTEMS HAVE BEEN TESTED, ADJUSTED, AND	FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235. (NOT FOR USE IN A RETURN AIR PLENUM) 2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:	
BALANCED IN ACCORDANCE WITH THE REFERENCED STANDARDS; ARE AN ACCURATE REPRESENTATION OF HOW THE SYSTEMS HAVE BEEN INSTALLED AND ARE OPERATING. REPORTS SHALL BE BOUND IN A VINYL BINDER AND THE BINDER LABELED OR MAY BE AN ELECTRONIC PDF SUBMITTAL.	PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO	
F. GREASE DUCT SHALL BE TESTED PRIOR TO USE OR CONCEALMENT OF ANY PORTION OF THE GREASE DUCT SYSTEM, DUCTS SHALL BE CONSIDERED TO BE CONCEALED WHEN INSTALLED IN SHAFTS OR COVERED BY	ASTM F 891. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (NOT FOR USE IN A RETURN AIR PLENUM)	
DUCT WRAP INSULATION THAT PREVENTS THE DUCTWORK FROM BEING VISUALLY INSPECTED FROM ALL SIDES. THE PERMIT HOLDER SHALL BE RESPONSIBLE TO PROVIDE THE NECESSARY EQUIPMENT AND PERFORM THE GREASE DUCT LEAKAGE TEST PER NFPA 96 AND ALL LOCAL CODES.	3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM: PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE	
GREASE DUCT LEARAGE TEST FER NFFA 46 AND ALL LOCAL CODES. G. BEFORE DOMESTIC WATER PIPING IS PLACED IN SERVICE, ALL DOMESTIC WATER DISTRIBUTION SYSTEMS, INCLUDING THOSE FOR COLD WATER AND HOT WATER SYSTEMS, SHALL BE FLUSHED	SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (WHERE APPROVED BY LOCAL JURISDICTIONS)	
STERILIZED AND CHLORINATED IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS. THE SYSTEMS SHALL BE THOROUGHLY FLUSHED OF ALL DIRT AND FOREIGN MATTER, THEN FILLED WITH WATER TREATED WITH 50 PPM OF CHLORINE. DURING THE FILLING PROCESS, VALVES AND FAUCETS SHALL BE OPENED	 (NOT FOR USE IN A RETURN AIR PLENUM) 4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 868 AND CISPI STANDARD 301. 	
SEVERAL TIMES TO ASSURE TREATMENT OF THE ENTIRE SYSTEM. THE TREATED WATER SHALL BE LEFT IN THE SYSTEM FOR 24 HOURS AFTER WHICH TIME THE SYSTEM SHALL BE FLUSHED; IF THE RESIDUAL CHLORINE IS NOT LESS THAN 10 PPM, THE FLUSHING SHALL BE REPEATED. AFTER STERILIZATION,	HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL. 5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 14.	
SAMPLES OF WATER IN THE SYSTEM SHALL BE APPROVED BY THE BOARD OF HEALTH. H. FIRE PROTECTION PIPING SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA.	E. CONDENSATE DRAINS & INDIRECT WASTE (ABOVEGROUND).	
6. PLUMBING:	1) DMV, WROUGHT COPPER, ANSI B-16.29 (CONDENSATE FROM COOLER/FREEZER). 2) POLYVINYLCHLORIDE (PVC) DMV PIPE, SCHEDULE 40, SOLVENT JOINT (CONDENSATE ON ROOF/FROM HVAC/MAU UNITS). 3) POLYVINYLCHLORIDE (PVC) DMV PIPE, SCHEDULE 40, SOLVENT JOINT (INDIRECT WASTE FROM FURNACES/ AHUS).	
A. PROVIDE AN APPROVED WATER HAMMER ARRESTOR FOR EACH PLUMBING FIXTURE SUPPLY AS REQUIRED BY FIXTURE MANUFACTURER. B. ALL EXPOSED WASTE PIPE SHALL BE CHROME PLATED BRASS PIPE, NO FERROUS PIPE.	4) DWV, WROUGHT COPPER, ANSI B-16.29 (WATER HEATER T&P). F. REFRIGERANT.	
C. PROVIDE CLEANOUTS AT EACH CHANGE OF DIRECTION AND AT 100 FOOT INTERVALS IN STRAIGHT RUNS.	 ASTM B 280, TYPE ACR, HARD-DRAWN STRAIGHT LENGTHS, AND SOFT-ANNEALED COILS, SEAMLESS COPPER TUBING. 	
 D. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND TRAPS. E. CLEANOUTS: 	 2) WROUGHT COPPER, ANSI B16.22, STREAMLINED PATTERN, FITTINGS. BRAZED JOINTS, AMS A 5.8, CLASSIFICATION BAG-1 (SILVER). 3) TUBING SHALL BE FACTORY CLEANED, READY FOR INSTALLATION, AND HAVE ENDS CAPPED TO DEDICATE TO EXAMINES OF DESCRIPTION OF A SUPPLY OF A	
 VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL. QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL. 	PROTECT CLEANLINESS OF PIPE INTERIORS PRIOR TO SHIPPING. 4) SIZE AND INSTALLATION OF PIPE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.	
3) CARPETED FLOOR: JR SMITH #4020-Y, OR EQUAL. 4) UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL. 5) WALL: JR SMITH #4472, OR EQUAL, 24" ABOVE THE FLOOR.	G. NATURAL GAS. 1) BLACK STEEL PIPE, SCHEDULE 40, ASTM A53.	
F. PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END CONNECTIONS TO MATCH THE PIPE SYSTEM IN WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED). PROVIDE DIELECTRIC UNIONS ON ALL PIPING CONNECTIONS TO HOT WATER HEATERS AND EXPANSION TANKS.	 a) PIPE 3" AND SMALLER; 150 LB. MALLEABLE IRON, THREADED FITTINGS. b) PIPE 4" AND SMALLER; VIEGA MEGAPRESS & FOR WATER AND GAS. CSA LC4, TSSA/ASME B31 FOR USE WITH ASTM A53 SCHEDULE 40 BLACK IRON PIPE. 	
	 c) PIPE 2-1/2" AND LARGER, WELDED. d) PLUG VALVE: ROCKWELL NORDSTROM FIGURE NO. 142 OR 143. 	
 EVERY WATER HEATER SHALL HAVE AN APPROVED MEANS INSTALLED ON THE COLD WATER SUPPLY LINE ABOVE THE EQUIPMENT TO PREVENT SIPHONING OF A STORAGE WATER HEATER OR TANK. BOTTOM FED WATER HEATERS AND TANKS CONNECT TO WATER HEATERS SHALL HAVE A VACCUM 	e) BALL VALVE: JOMAR T-100NE. APPROVALS- UL842, FM, CSA, NSF 61-8, MSS SP-110 2) GAS PIPING LABELING:	
RELIEF VALVE INSTALLED. ANSI Z21.22. 3) STORAGE HEATERS OPERATING ABOVE ATMOSPHERIC PRESSURE SHALL HAVE AN APPROVED PRESSURE RELIEF VALVE AND/OR TEMPERATURE RELIEF VALVE.	a) ALL ELEVATED PRESSURE GAS PIPING SHALL BE LABELED EVERY 40 FEET WITH SIGNS INDICATING "ELEVATED PRESSURE".	
 H. ALL SEMER PIPING LOCATED INSIDE THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING SLOPES. 1) INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FALL. 	3) GAS PIPING PAINTING: a) ALL BLACK STEEL GAS PIPING LOCATED EXTERIOR TO THE BUILDING SHALL BE PRIMED AND PAINTED TO EITHER MATCH ADJACENT EXTERIOR WHERE LOCATED ON OR NEAR EXTERIOR WALL AND PAINTED SAFETY YELLOW WHERE	
 2) INSTALL 3" AND LARGER PIPE AT 1/8" PER FOOT FALL. 3) INSTALL ALL GREASE WASTE PIPING AT 1/4" PER FOOT FALL. 	LOCATED ON THE ROOF. H. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASON, OR ELCEN. MANGER GRACING, SMALL BE IN ACCORDANCE MITLINGS OF 67	
	ELCEN. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-69. I. SLEEVES	
	 PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. ALL SLEEVES SHALL BE OF SUFFICIENT SIZE TO PERMIT PIPE MOVEMENT DUE TO EXPANSION AND CONTRACTION AND TO ACCOMMODATE PIPE INSULATION. 	
	 2) INTERIOR PARTITIONS: 16 GAGE GALVANIZED STEEL, PACK BETWEEN PIPE AND SLEEVE WITH FIRE SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT. 	
	3) ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WATERPROOF SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY.	
	 4) PROTECTION AGAINST CONTACT: METALLIC PIPING, EXCEPT FOR CAST IRON, DUCTILE IRON AND GALVANIZED STEEL SHALL NOT BE PLACED IN DIRECT CONTACT WITH STEEL FRAMING MEMBERS, CONCRETE, OR CINDER WALLS 	
	AND FLOORS OR OTHER MASONRY. METALLIC PIPING SHALL NOT BE PLACED IN DIRECT CONTACT WITH CORROSIVE SOIL. SHEATHING USED TO PREVENT DIRECT CONTACT SHALL HAVE A THICKNESS OF GREATER THAN .008: AND THE SHEATHING SHALL BE MADE OF PLASTIC. ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL OR FOOTING SHALL	
	BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE SHALL BE TWO SIZES GREATER THAN THE PIPE PASSING THOUGH THE WALL OR FOOTING.	
	5) PLUMBING VENTS: FLASH ROOF VENT INTO ROOFING SYSTEM AS REQUIRED BY THE ROOFING CONTRACTOR TO MAINTAIN EXISTING ROOF WARRANTY. ALL PLUMBING VENT TERMINALS SHALL TERMINATE A MINIMUM OF 12" ABOVE ROOF OR EQUAL TO HEIGHT OF PARAPET, WHICHEVER IS GREATER.	
	J. PROVIDE CHROME PLATED ESCUTCHEONS ON ALL PIPE ENTERING FINISHED AREAS.	

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ATER HEATE	RS				
FOR GAS-F	FIRED, INSTANTANEOUS, DOMESTIC-WA	ATER HEATERS FOR INDOOR			
OR TUBING C GE CAPACIT	COMPLYING WITH NSF 61 AND NSF 372 Y.	2 BARRIER MATERIALS FOR			
•	TIC-WATER HEATERS AND NATURAL-G OPRIETARY SYSTEM FOR AUTOMATIC				
OUNTING.					
): RATED TANK CONSTRUCTED WITH WELDED JOINTS AND BER DIAPHRAGM. INCLUDE AIR PRECHARGE TO MINIMUM I TANK.					
READ.	WELDED TO TANK BEFORE TESTING				
	2 NSF 372 BARRIER MATERIALS FOR H INTO AND THROUGH TANK FITTINGS ED.				

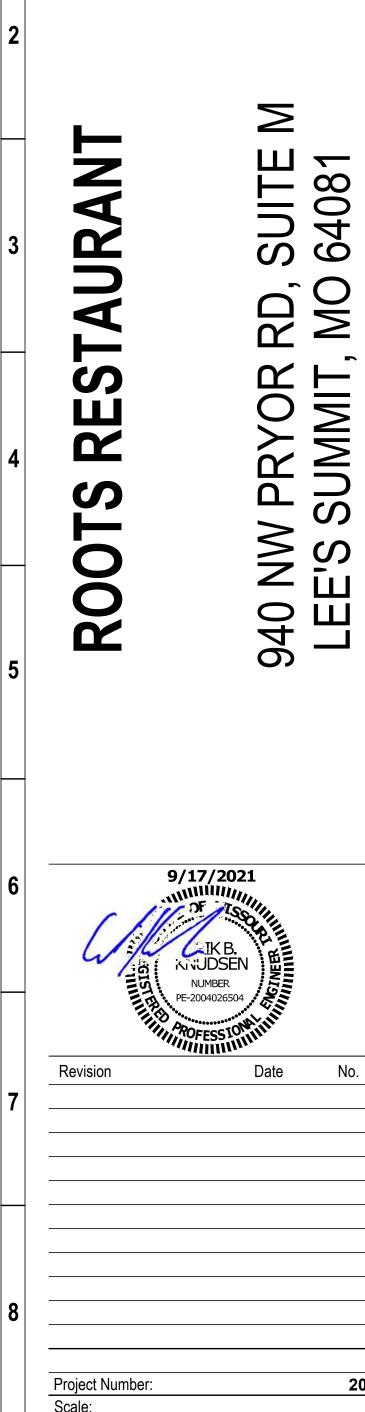
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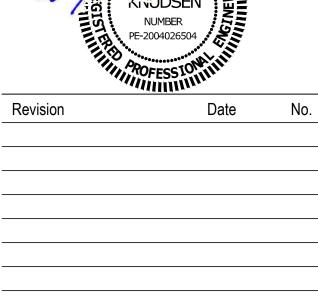
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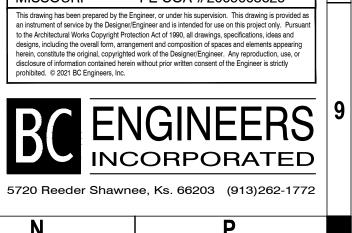


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2002 Scale: Date: 09/15/2021 **MECHANICAL & PLUMBING** SPECS **MP0.1**

PHASE



PE COA #2009003629

DRAWN BY: MA/SM

BC PROJECT #: 21569

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	MECHANICAL SPECIFICATIONS (CONTINUED)	MECHANICAL SPECIFICATIONS (CONTINUED)	MECHANICAL SPECIFICA
	9. INSULATION AND DUCT LINING: A. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME SPREAD RATING OF NOT OVER 25, A FUEL CONTRIBUTION RATING OF NOT OVER 50, AND A SMOKE DEVELOPED RATING OF NOT OVER 50, IN ACCORDANCE WITH NFPA.	1) CONNECT METAL DUCTWORK TO EQUIPMENT AS INDICATED, PROVIDE FLEXIBLE CONNECTION FOR EACH DUCTWORK CONNECTION TO EQUIPMENT MOUNTED ON VIBRATION ISOLATORS, AND/OR EQUIPMENT CONTAINING ROTATING MACHINERY. PROVIDE ACCESS DOORS AS REQUIRED.	 C. THERMOSTATIC CONTROLS TO HAVE A 5°F DEADBA 1) TEMPERATURE CONTROLS SETBACK TO BE 55°F 10-HOUR BACKUP.
	B. PIPE INSULATION - ABOVE GRADE: 1) THE PIPING INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 Btu PER in/hr*saft*F° OR LESS.	G. SEAL ALL CONCEALED DUCTWORK JOINTS WITH NON-HARDENING, NON-MIGRATING MASTIC SEALANT, AS RECOMMENDED FOR SEALING SEAMS AND JOINTS IN DUCTWORK. OIL BASE CAULKING AND GLAZING COMPOUNDS SHALL NOT BE ACCEPTABLE. DUCTS SHALL BE SEALED TO THE CLASS LEVEL LISTED BELOW.	17. REMODELING WORK:
	2) FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER, ASJ JACKET, FACTORY APPLIED	1) UNCONDITIONED SPACES CLASS B CLASS A CLASS C CLASS B	A. DEMOLITION: DISCONNECT, DEMOLISH, AND REMOV INDICATED TO BE REMOVED AND NOT INDICATED TO
	PRESSURE SEALING LONGITUDE LAP JOINT, NO STAPLES, ZESTON PREMOLDED PVC FITTING COVERS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.	2) CONDITIONED SPACES (PLENUM) CLASS C CLASS B CLASS B CLASS C SUPPLY \leq 2" W.C. SUPPLY $>$ 2" W.C. EXHAUST RETURN	 B. EQUIPMENT TO BE SALVAGED: 1) DISCONNECT AND REMOVE, EXISTING MECHANICA
	3) FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRESSURE SENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO ARMSTRONG AP ARMAFLEX OR ARMAFLEX 2000.	11. GREASE HOOD AND EXHAUST DUCT:	SALVAGED. DELIVER EQUIPMENT TO THE LOCATI
	4) FOR NON CIRCULATING SYSTEMS, THE FIRST & FEET OF INLET AND OUTLET PIPING BETWEEN THE TANK AND THE HEAT TRAP (INCLUDING THE HEAT TRAP) MUST BE INSULATED.	A. HOOD SHALL BE CONSTRUCTED OF 18 GAUGE STEEL OR 20 GAUGE STAINLESS STEEL IN ACCORDANCE WITH NFPA 96 AND LOCAL CODES.	REMOVED, AND STORED UNTIL NEEDED FOR REM "LIKE NEW" CONDITION WITH RUST OR CORROSION REPAINTED AS REQUIRED TO MATCH NEW CONST
	5) FOR CIRCULATING SYSTEMS, ALL HOT WATER PIPING IN THE CIRCULATION LOOP MUST BE INSULATED AS SPECIFIED BELOW.	 GREASE FILTERS SHALL BE UL LISTED ALUMINUM GREASE EXTRACTORS. PROVIDE A COMPLETE AUTOMATIC WET CHEMICAL FIRE EXTINGUISHING SYSTEM FOR THE HOOD AND 	ANY ITEMS WHICH BECOME DAMAGED BEYOND RI ACTIVITY SHALL BE REPLACED WITH NEW MATERI,
	a) DOMESTIC COLD WATER 1/2"	DUCT AS REQUIRED BY NFPA AND LOCAL CODES. ALL COOKING EQUIPMENT UNDER THE HOOD SHALL BE INTERLOCKED WITH THE SYSTEM, TO SHUTDOWN IN AN ALARM CONDITION.	C. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE A EQUIPMENT NOT INDICATED TO BE SALVAGED.
	b) DOMESTIC HOT WATER 1" FOR PIPING UP TO 1-1/4"Φ, & 1-1/2" FOR PIPING 1-1/2"Φ AND LARGER c) HOT WATER RECIRCULATING 1" d) CONDENSATE DRAINS INSIDE BUILDING 1/2"	a) THE GREASE HOOD FIRE SUPPRESSION SYSTEM SHALL BE EQUAL TO AMEREX KP SERIES PRE- ENGINEERED , WET CHEMICAL, STORED-PRESSURE TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION SYSTEM. THE SYSTEM SHALL BE UL LISTED AND TESTED TO UL STANDARD 300.	D. PROTECT ADJACENT MATERIALS INDICATED TO REN BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM B
	e) REFRIGERANT SUCTION 3/4" C. PIPE INSULATION - BELOW GRADE:	 b) THE SYSTEM SHALL UTILIZE AN AGENT EQUAL TO AMEREX KP LIQUID FIRE SUPPRESSANT, A POTASSIUM ACETATE BASED SOLUTION THAT SUPPRESSES COOKING GREASE FIRES, SHALL HAVE 	PROTECTION AND BARRIERS AFTER REMODELING C E. LOCATE, IDENTIFY, AND PROTECT MECHANICAL SER
	1) THE PIPING INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 BUUPER in/hr*sqft*F° OR LESS.	A PH OF 9 OR LESS, AND SHALL NOT HARM STAINLESS STEEL SURFACES.	SERVING OTHER AREAS OUTSIDE THE REMODELING I REMODELING LIMITS. WHERE MECHANICAL SERVICES DEMOLISHED, REROUTE PIPING TO NEW OR EXISTING
	2) FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRESSURE SENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO KFLEX INSUL-TUBE OR EQUAL RATED FOR UNDERGROUND INSTALLATION ABOVE THE WATER TABLE.	c) THE SYSTEM SHALL BE PROVIDED WITH A MANUAL "DUAL ACTION" TYPE PULL STATION. PULL STATION SHALL BE LOCATED NOT LESS THAN 10 FEET AND A MAXIMUM OF 20 FEET FROM THE GREASE HOOD AND IN THE PATH OF EGRESS. THE MANUAL ACTUATION SHALL REQUIRE A	SYSTEM. WHEN SERVICES MUST BE INTERRUPTED, IN F. REMOVE ALL PIPING TO BE DEMOLISHED BACK TO 1
	COVER PIPING WITH A CLEAN FILL SUCH AS SAND (3"-5" LAYER) TO PROTECT INSULATION FROM COMPACTION. 3) PRE-INSULATED PIPE SYSTEMS WITH CLOSED CELL PEX-FOAM INSULATION AND COVERED BY A WATERPROOF	MAXIMUM FORCE OF 40 POUNDS AND A MAXIMUM MOVEMENT OF 14 INCHES TO ACTUATE THE FIRE SUPPRESSION SYSTEM.	PIPE. G. PIPING AND DUCTS EMBEDDED IN FLOORS, WALLS.
	CORRUGATED HDPE JACKET. UPONOR ECOFLEX OR EQUAL. ASTM F876, F877, CSA B137.5 4) INSULATION SCHEDULE:	d) PROVIDE A GAS SHUT OFF VALVE FOR MOUNTING IN THE GAS PIPE THAT WILL SHUT OFF GAS FLOW TO EQUIPMENT UNDER THE HOOD IN AN ALARM CONDITION. PROVIDE AN ELECTRICAL SWITCH WHICH SHALL BE CAPABLE OF DE-ENERGIZING ALL ELECTRICAL DEVICES AND	NOT INTERFERE WITH NEW INSTALLATIONS. PIPING A ARCHITECT. REMOVE MATERIALS ABOVE ACCESSIB
	a) DOMESTIC HOT WATER 1-1/2" b) HOT WATER RECIRCULATING 1-1/2"	EQUIPMENT UNDER THE HOOD IN AN ALARM CONDITION. B. GREASE DUCT SHALL BE CONSTRUCTED OF 16 GAUGE CARBON STEEL OR 18 GAUGE STAINLESS STEEL IN	ALLOWED TO REMAIN ABOVE CEILING OR BELOW FL NOTED. PATCH FLOOR TO MATCH EXISTING.
	 D. EQUIPMENT INSULATION: 1) FLEXIBLE FIBERGLASS: GLASS FIBER INSULATION, ASTM C 553, TYPE 1, CLASS B-4, SEMI-RIGID 	ACCORDANCE WITH NFPA 96 AND LOCAL CODES.	 H. PIPE AND DUCT SHALL BE CONCEALED WITH NEW OR UNLESS INDICATED OTHERWISE.
	BOARD, WITH FACTORY LAMINATED KRAFT ALUMINUM FOIL (ALL SERVICE JACKET), VAPOR BARRIER, OWENS/CORNING PIPE AND TANK INSULATION.	a) JOINTS, SEAMS AND PENETRATIONS OF GREASE DUCTS SHALL BE MADE WITH A CONTINUOUS LIQUID TIGHT WELD OR BRAZE MADE ON THE EXTERNAL SURFACE OF THE DUCT SYSTEM. b) DUCT JOINTS SHALL BE BUTT JOINTS, WELDED FLANGE JOINTS WITH A MAXIMUM FLANGE DEPTH OF 1/2"	
	E. DUCTWORK: ACOUSTICAL INSULATION. 1) DUCT LINING: 2 LB/CF, THICKNESS AS SCHEDULED, AIR STREAM SIDE COATED, INSTALL PER	OR OVERLAPPING DUCT JOINTS OF EITHER THE TELESCOPING OR BELL TYPE. OVERLAPPING JOINTS SHALL BE INSTALLED TO PREVENT LEDGES AND OBSTRUCTIONS FROM COLLECTING GREASE OR	
	a) DUCT LINING SCHEDULE:	INTERFERING WITH GRAVITY DRAINAGE TO THE INTENDED COLLECTION POINT. c) DUCT TO HOOD CONNECTIONS SHALL BE MADE WITH LISTED AND LABELED DUCT TO HOOD COLLAR	
	 (1) RECTANGULAR SUPPLY DUCT (2) RETURN AIR DUCT (2) RETURN AIR DUCT (3) RETURN AIR DUCT (4) 1/2": THROUGHOUT THE FIRST 10 FEET OF DUCT. 	CONNECTIONS THAT ARE INSTALLED PER THE TERMS OF THEIR APPROVAL AND PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.	
	F. DUCTWORK: THERMAL INSULATION.	d) DUCT TO EXHAUST FAN CONNECTIONS SHALL BE FLANGED AND GASKETED AT THE BASE OF THE FAN FOR VERTICAL DISCHARGE FANS, OR SHALL BE FLANGED, GASKETED AND BOLTED TO THE INLET OF THE FAN FOR SIDE INLET UTILITY FANS. GASKET SEALING MATERIALS SHALL BE RATED FOR A MINIMUM CONTINUOUS	
	1) DUCT COVERING: 3/4 LB/CF, FIBERGLASS BLANKET WITH FACTORY APPLIED VAPOR BARRIER AND FACING, THICKNESS AS SCHEDULED, INSTALLATION IN ACCORDANCE WITH MANUFACTURERS	DUTY TEMPERATURE OF 1,500°F. 12. FLEXIBLE DUCT:	
	RECOMMENDATIONS. a) DUCT COVERING SCHEDULE: MINIMUM R-6	A. ATCO #086 (R-6), OR EQUAL.	
	 (1) ROUND SUPPLY DUCT 2" (2) RECTANGULAR SUPPLY DUCT 2" 	B. FACTORY APPLIED INSULATION AND VAPOR BARRIER, 1-1/2" THICK. C. MAXIMUM LENGTH OF 5'-0".	
	 (3) RETURN AIR DUCT 2" (4) OUTDOOR AIR / MAKE-UP AIR DUCT 2" 2) DUCT CONFERING (EXTERIOR GUEREX AND RETURN) 	13. FLUES AND ACCESSORIES:	
	 2) DUCT COVERING (EXTERIOR SUPPLY AND RETURN) a) EXTERIOR INSULATION: JOHN MANVILLE XSPECT ISOFOAM APF BOARD, 1-1/2" THICK R-9.3, UNIFORM 	A. FLUE FOR GAS FIRED CONDENSING WATER HEATER OR FURNACE SHALL BE AS RECOMMENDED BY THE GAS APPLIANCE MANUFACTURER. FLUES SHALL BE SCHEDULE 40, PVC OR CPVC PIPE PER THE	
	CLOSED-CELL POLYISOCYANURATE FOAM CORE BONDED WITH A FOIL FACER. INSTALLED PER MANUFACTURER'S REQUIREMENTS. COVER ISOFOAM BOARD INSULATION WITH POLYGUARD ALUMAGUARD, COMPOSITE MEMBRANE MULTI-PLY EMBOSSED UV-RISISTANT ALUMINUM FOIL/POLYMER LAMINATE, ALL	MANUFACTURERS INSTALLATION REQUIREMENTS. B. PROVIDE MANUFACTURER'S STANDARD ACCESSORY ITEMS INCLUDING BIRD PROOF TOP, STORM COLLAR,	
	WEATHER FLEXIBLE WEATHER-PROOFING JACKET. MINIMUM R-8 RATING.	ROOF THIMBLE, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. ROOF THIMBLES THROUGH THE BUILDING ROOF SHALL BE SUITABLE FOR USE WITH THE ROOF PROVIDED.	
	A. ALL DUCTWORK, UNLESS OTHERWISE INDICATED, SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL COMPLYING WITH ASTM A 527, LOCKFORMING QUALITY, WITH G 90 ZINC COATING IN ACCORDANCE WITH	14. EXHAUST FANS: A. CENTRIFUGAL CEILING EXHAUSTERS SHALL BE ELECTRICALLY POWERED CENTRIFUGAL TYPE FAN SUITABLE	
	ASTM A 525; AND MILL PHOSPHATIZED FOR EXPOSED LOCATIONS. B. WHERE DUCTWORK IS INDICATED TO BE EXPOSED TO VIEW IN OCCUPIED SPACES, PROVIDE MATERIALS	FOR MOUNTING IN THE CEILING WITH A PERFORATED OFF-WHITE METAL GRILLE WITH A THUMBSCREW ATTACHMENT FOR EASY ACCESS TO FAN HOUSING. UNIT SHALL CONSIST OF A GALVANIZED STEEL HOUSING LINED WITH ACOUSTICAL INSULATION AND SHALL INCLUDE AN INTEGRAL BACKDRAFT DAMPER	
	WHICH ARE FREE FROM VISUAL IMPERFECTIONS INCLUDING PITTING, SEAM MARKS, ROLLER MARKS, STAINS AND DISCOLORATIONS, AND OTHER IMPERFECTIONS, INCLUDING THOSE WHICH WOULD IMPAIR	ON FAN DISCHARGE. MOTOR SHALL BE A PERMANENT SPLIT-CAPACITOR TYPE MOTOR, PERMANENTLY LUBRICATED, WITH THERMAL OVERLOAD PROTECTION. PROVIDE DISCONNECT SWITCH OR OTHER MEANS OF DISCONNECT AT MOTOR IN FAN HOUSING.	
	PAINTING. C. DUCTWORK, METAL GAUGES, REINFORCING, ETC. SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA	15. FURNACE AND CONDENSING UNIT:	
	"HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION FOR A 2 INCH WATER GAUGE STATIC PRESSURE.	 A. CONDENSING FURNACES: 1) GAS FIRED FURNACE SHALL BE FACTORY ASSEMBLED, PRE-WIRED UNIT CONSISTING OF 	
	 RECTANGULAR DUCT: a) ELBOWS, UNLESS INDICATED OTHERWISE SHALL BE CONSTRUCTED WITH CENTERLINE RADIUS OF 	SHEETMETAL CASING, SUPPLY FAN, GAS FIRED HEAT EXCHANGER, AND CONTROLS. CAPACITY SHALL BE AS SCHEDULED.	
	NOT LESS THAN 1.5 DUCT WIDTH OR SQUARE ELBOW WITH DOUBLE WALL STREAMLINE VANES.	 THE PRIMARY HEAT EXCHANGER SHALL BE ALUMINIZED STEEL CONSTRUCTION WITH A STAINLESS STEEL SECONDARY HEAT EXCHANGER. 	
	TURNING VANES.	3) THE FURNACE SHALL BE OF THE CONDENSING TYPE, UTILIZING A SEALED COMBUSTION CHAMBER. UNIT SHALL INCLUDE FINNED CAST IRON HEAT EXCHANGER, ALUMINIZED STEEL	
	 c) SLOPES FOR TRANSITIONS OR OTHER CHANGES IN DIMENSIONS SHALL BE MINIMUM 1 TO 3. 2) ROUND AND OVAL SPIRAL SEAM DUCT: 	EXHAUST DECOUPLER SECTION, AND FINNED STAINLESS STEEL TUBE CONDENSER SECTION.	
	a) PROVIDE RADIUS TYPE FITTINGS FABRICATED OF MULTIPLE SECTIONS WITH MAXIMUM 15 DEGREE CHANGE OF DIRECTION PER SECTION. UNLESS SPECIFICALLY DETAILED OTHERWISE,	24 VOLT CONTROL TRANSFORMER, AUTOMATIC SPARK IGNITION, AUTOMATIC GAS VALVE TRAIN, HIGH TEMPERATURE LIMIT SWITCH, AND FAN TIMED DELAY RELAY.	
	USE 45 DEGREE LATERALS FOR BRANCH TAKEOFF CONNECTIONS. WHERE 90 DEGREE BRANCHES ARE INDICATED PROVIDE CONICAL TYPE TEES.	5) RETURN AIR INLET ON UNIT SHALL BE PROVIDED WITH A 1" THROWAWAY TYPE FILTER AND SLIDE IN FRAME, MOUNTED ON THE UNIT.	
	b) SLOPES FOR TRANSITIONS OR OTHER CHANGES IN DIMENSIONS SHALL BE MINIMUM 1 TO 3.	6) FAN SHALL BE A DIRECT DRIVE MULTI-SPEED BLOWER, RESILIENTLY MOUNTED IN THE CASING. MOTOR SHALL BE PROVIDED WITH AUTOMATIC THERMAL OVERLOAD PROTECTION.	
	C) AS AN OPTION, PROVIDE FACTORY-FABRICATED DUCT AND FITTINGS, IN LIEU OF SHOP- FABRICATED DUCT AND FITTINGS.	7) FURNACE SHALL BE AGA APPROVED.	
	(1) ELBOWS: ONE PIECE CONSTRUCTION FOR 90 DEGREES AND 45 DEGREE ELBOW 14" AND SMALLER. PROVIDE MULTIPLE GORE CONSTRUCTION FOR LARGER DIAMETERS WITH STANDING SEAM CIRCUMFERENTIAL JOINT.	B. CONDENSING UNIT SHALL BE FACTORY-ASSEMBLED AND TESTED AIR-COOLED CONDENSING UNIT, CONSISTING OF COMPRESSOR, CONDENSER COIL, FAN, MOTOR, REFRIGERANT RESERVOIR, OPERATING	
	(2) DIVIDED FLOW FITTINGS: 90 DEGREE TEES, CONSTRUCTED WITH SADDLE TAP SPOT WELDED AND BONDED TO DUCT FITTING BODY.	CONTROLS, ETC. CAPACITY AND ELECTRICAL CHARACTERISTICS SHALL BE AS SCHEDULED.	
	d) ROUND LONGITUDINAL SEAM DUCT. USE FOR RIGID METAL DUCT ON LEAVING SIDE OF DUCT IN CONCEALED LOCATIONS FOR EXTENSION TO FLEX FOR DIFFUSERS, UNLESS OTHERWISE	COMPRESSOR MOTOR, SHALL HAVE THERMAL AND CURRENT SENSITIVE OVERLOAD DEVICES, INTERNAL HIGH-PRESSURE PROTECTION, HIGH AND LOW PRESSURE CUTOUT SWITCHES, START CAPACITOR AND	
	IN CONCLALLD LOCATIONS FOR EXTENSION TO FELL FOR DIFFUSIENS, UNLESS OTHERNISE INDICATED. D. DUCT SIZES SHOWN ON THE DRAWINGS ARE SHEETMETAL SIZES, ALLOWANCE FOR DUCT LINER HAS BEEN	RELAY, 2-POLE CONTACTOR, CRANKCASE HEATER, AND TEMPERATURE ACTUATED SWITCH AND TIMER TO PREVENT COMPRESSOR RAPID CYCLE.	
	MADE WHERE APPLICABLE.	2) COIL SHALL BE COPPER TUBING WITH ALUMINUM FINS; COMPLETE WITH LIQUID ACCUMULATOR AND LIQUID SUBCOOLER. UNIT SHALL INCLUDE FILTER DRYER, SIGHT GLASS, COMPRESSOR SERVICE VALVE. LIQUID LINE SERVICE VALVE. AND REFRIGERANT PIPING EXTENDED TO EXTERIOR OF	
	 E. INSTALLATION OF METAL DUCTWORK: 1) GENERAL: ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY 	CASING. 16. CONTROL WIRING:	
	PRACTICES WHICH WILL ACHIEVE AIR-TIGHT SYSTEMS (MAXIMUM 5% LEAKAGE), WITH NO OBJECTIONABLE NOISE, AND CAPABLE OF PERFORMING INDICATED SERVICE. INSTALL EACH RUN WITH MINIMUM NUMBER OF JOINTS. ALIGN DUCTWORK ACCURATELY WITH INTERNAL SURFACES	A. ELECTRICAL WIRING AND WIRING CONNECTIONS REQUIRED FOR THE INSTALLATION OF THE TEMPERATURE CONTROL SYSTEM, SHALL BE PROVIDED BY THIS CONTRACTOR, UNLESS SPECIFICALLY SHOWN ON THE	
	SMOOTH. SUPPORT DUCTS RIGIDLY WITH SUITABLE STRAPS, BRACES, HANGERS AND ANCHORS IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" LATEST EDITION. DUCT	ELECTRICAL DRAWINGS OR SPECIFICATIONS. B. INSTALL CONTROL WIRING, WITHOUT SPLICES BETWEEN TERMINAL POINTS, COLOR CODED. INSTALL IN	
	HANGERS SHALL BE OF THE TYPE WHICH WILL HOLD DUCTS TRUE-TO-SHAPE AND TO PREVENT BUCKLING. SUPPORT VERTICAL DUCTS AT EVERY FLOOR.	NEAT WORKMANLIKE MANNER, SECURELY FASTENED. INSTALL IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND THE ELECTRICAL SPECIFICATIONS.	
	 2) AUXILIARY STEEL: PROVIDE AUXILIARY STEEL AS REQUIRED TO ADEQUATELY SUPPORT DUCTWORK. 3) ROUTING: LOCATE DUCTWORK RUNS, EXCEPT AS OTHERWISE INDICATED, VERTICALLY AND 	1) INSTALL CIRCUITS OVER 25 VOLT WITH COLOR CODED NUMBER 12 WIRE.	
	HORIZONTALLY AND AVOID DIAGONAL RUNS WHEREVER POSSIBLE. LOCATE RUNS AS INDICATED BY DIAGRAMS, DETAILS AND NOTATIONS OR, IF NOT OTHERWISE INDICATED, RUN DUCTWORK IN SHORTEST ROUTE WHICH DOES NOT OBSTRUCT USABLE SPACE OR BLOCK ACCESS FOR SERVICING	2) INSTALL CIRCUITS UNDER 25 VOLT WITH COLOR CODED NUMBER 18 WIRE WITH 0.031 INCH HIGH TEMPERATURE 105 DEGREES F PLASTIC INSULATION ON EACH CONDUCTOR AND PLASTIC SHEATH OVER ALL.	
	BUILDING AND ITS EQUIPMENT. HOLD DUCTS CLOSE TO WALLS, OVERHEAD CONSTRUCTION, COLUMNS, AND OTHER STRUCTURAL AND PERMANENT ENCLOSURE ELEMENTS OF BUILDING. WHEREVER POSSIBLE IN FINISHED AND OCCUPIED SPACES, CONCEAL DUCTWORK FROM VIEW, BY LOCATING IN	3) INSTALL ELECTRONIC CIRCUITS WITH COLOR CODED NUMBER 22 WIRE WITH 0.023 INCH POLYETHYLENE INSULATION ON EACH CONDUCTOR WITH PLASTIC JACKETED COPPER SHIELD OVER	
	MECHANICAL SHAFTS, HOLLOW WALL CONSTRUCTION OR ABOVE SUSPENDED CEILINGS. DO NOT ENCASE HORIZONTAL RUNS IN SOLID PARTITIONS, EXCEPT AS SPECIFICALLY SHOWN. COORDINATE	ALL.	
	LAYOUT WITH SUSPENDED CEILING AND LIGHTING LAYOUTS AND SIMILAR FINISHED WORK. 4) DO NOT ROUTE DUCTWORK THROUGH ELECTRICAL EQUIPMENT SPACES AND ENCLOSURES, UNLESS	4) INSTALL LOW VOLTAGE CIRCUITS, LOCATED IN CONCRETE SLABS AND MASONRY WALLS, OR EXPOSED IN OCCUPIED AREAS, IN ELECTRIC CONDUIT.	
	INDICATED OTHERWISE. 5) PENETRATIONS:	5) ALL WIRING IN AREAS USED AS AIR PLENUMS SHALL BE IN ELECTRIC CONDUIT EXCEPT THAT LOW VOLTAGE WIRING MAY BE TEFLON COATED, ALUMINUM SHEATHED CABLE OR OTHER WIRE SPECIFICALLY APPROVED FOR INSTALLATION IN AIR PLENUMS, WHERE ACCEPTABLE BY LOCAL	
	a) WHERE DUCTS PASS THROUGH INTERIOR PARTITIONS OR EXTERIOR WALLS, AND ARE EXPOSED	6) ALL WIRING IN AREAS NOT USED FOR AIR MOVEMENT SHALL BE IN ELECTRIC METALLIC TUBING	
	TO VIEW, CONCEAL SPACE BETWEEN OPENING AND DUCT OR DUCT INSULATION WITH SHEET METAL FLANGES OF SAME GAGE AS DUCT. OVERLAP OPENING ON 4 SIDES BY AT LEAST 1- 1/2". FASTEN TO DUCT AND WALL.	6) ALL MIRING IN AREAS NOT USED FOR AIR MOVEMENT SHALL BE IN ELECTRIC METALLIC TUBING EXCEPT LOW VOLTAGE WIRING MAY BE IN APPROVED SIGNAL CABLE WHERE ACCEPTED BY LOCAL CODES.	
	b) WHERE DUCTS PASS THROUGH FIRE-RATED FLOORS, WALLS, OR PARTITIONS, PROVIDE FIRESTOPPING BETWEEN DUCT AND WALL.		
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	NDONED MECHANICAL MAT SALVAGED OR REMAIN.	ERIALS AND EQUIPM	IENT	•	P P w ir
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OISE FROM BEING MODELING OPERA HANICAL SERVICES EMODELING LIMITS	INSTALL AND MAINTAIN DUS TRANSMITTED TO ADJACEN TIONS ARE COMPLETE.	IT AREAS. REMOVE DELING AREA AND IREAS OUTSIDE			
OR EXISTING CON ERRUPTED, INSTALI	: LOCATED IN A WALL, ETC. STRUCTION TO MAINTAIN CC _ TEMPORARY SERVICES FO MAIN OR EDGE OF PROJECT	NTINUITY OF THE OR AFFECTED AREA	ю.		RANT
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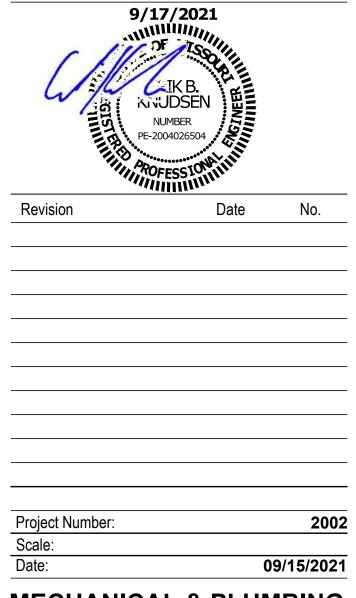
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11/03/2021

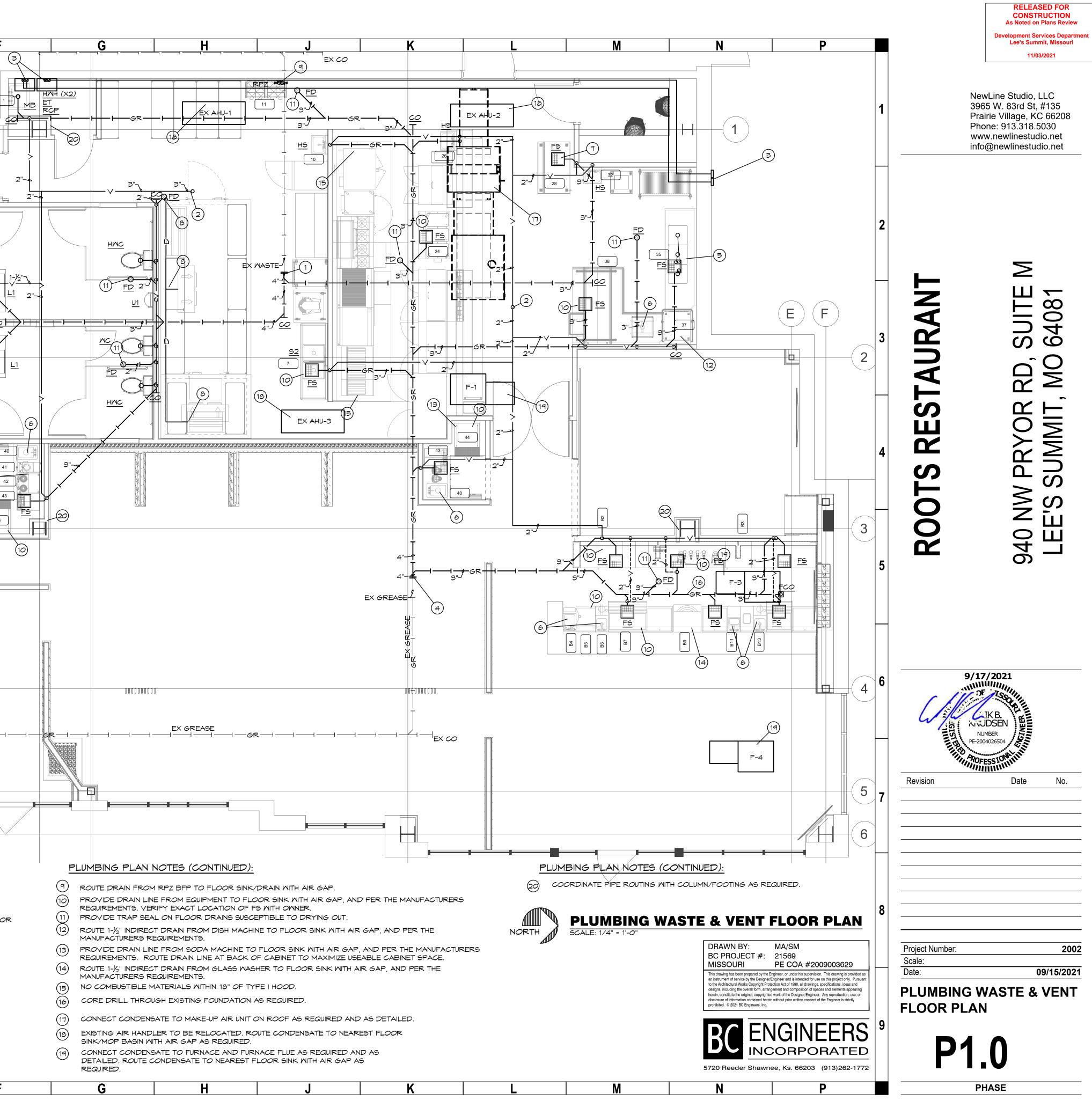
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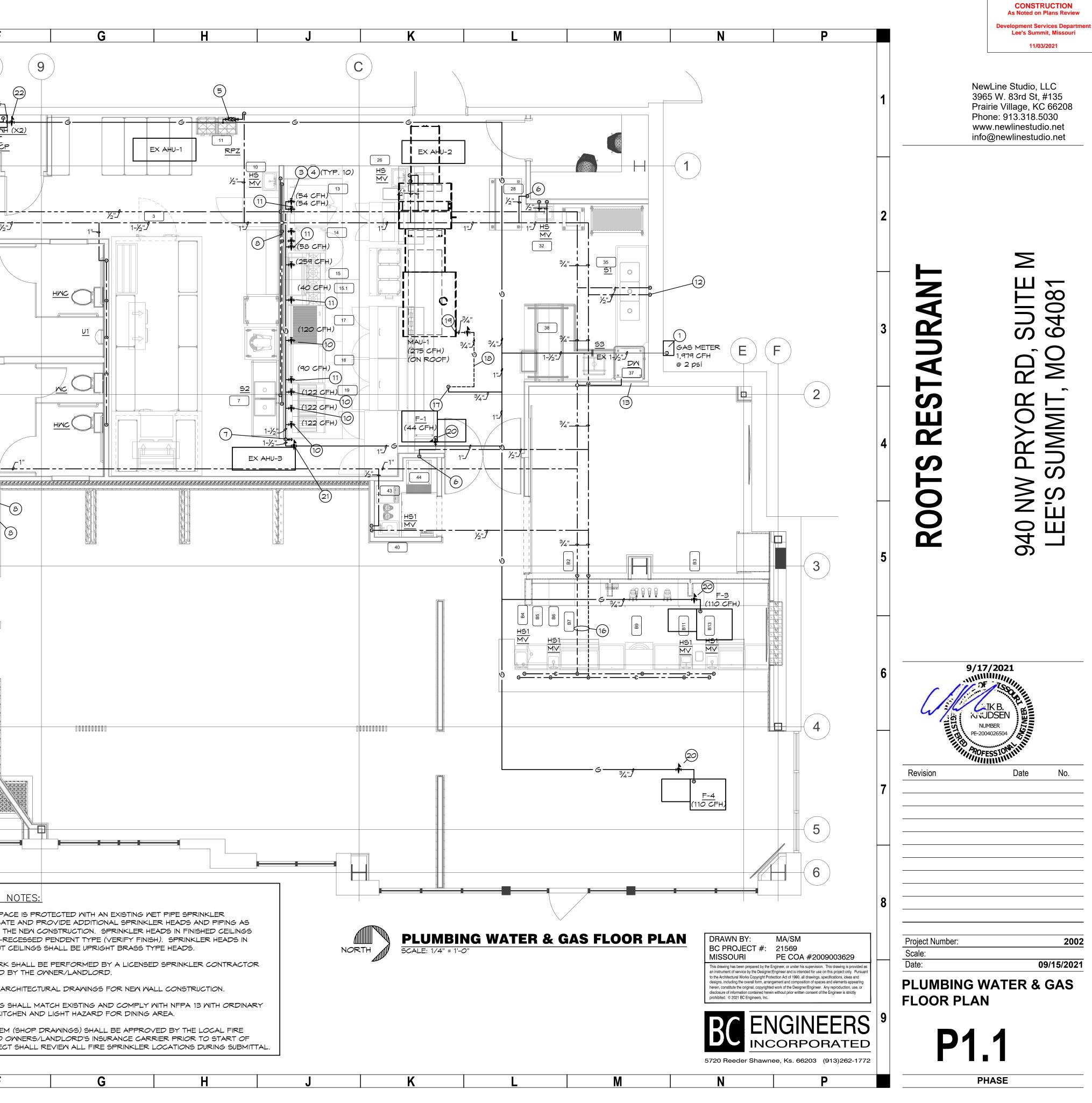


MECHANICAL & PLUMBING SPECS

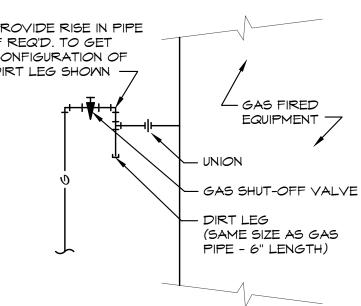
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				AL NOTLE	<u>.</u>				
		1.	INSTALL ALL PIPE,	ETC. AS HIGH	H AS POSSIBLE.				
1		2.			OTHER TRADES AND EXISTIN EMS AS INTENDED, WITHIN TH				
			AVAILABLE, AND M						
		З.	REFER TO ARCHIT	ECTURAL DR	AWINGS FOR EXACT LOCATI	ONS AND MOUNTING HEIGHT	5 OF		
		,							
		4.	PIPING, EQUIPMENT	, ETC. FROM	TRUCTURAL DRAWINGS FOR I THE STRUCTURE. PROVIDE				
			PROPERLY SUPPO	RT SYSTEMS	FROM THE STRUCTURE.				
		5.	SAWCUT EXISTING I FLOOR TO MATCH		EQUIRED FOR INSTALLATION	I OF UNDERFLOOR PIPING.	РАТСН		
2		6.	VERIFY IF FLOOR	IS SLAB ON (GRADE OR STRUCTURAL SL	AB. IF SLAB ON GRADE, SAM	NCUT AND		
					OOR AS REQUIRED. IF STRUC INS OF FLOOR SHALL BE IN	-			
			REQUIREMENTS. AL LANDLORD.	L SANCUTTIN	NG AND CORE DRILLING SHA	ALL BE PERFORMED AS REC	WIRED BY		
		-			AIN PIPE FOR EACH AIR HAN				
		1.			CH FURNACE AND ROUTE TO				
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					OVER THE TOP OF ELECTRIC				
3		9.	WATER SERVICE IF		. PRESSURE ON SITE AND PR S OVER 80 PSI.	OVIDE PRESSURE REDUCING	VALVE ON		
		10.	FIRE-SEAL ALL PEI	NETRATIONS	THRU FIRE-RATED WALLS O	R FLOORS.	_		
					NDLORD AND TENANT(S) AB				
			WASTE PIF	PING LOCATE	ED ABOVE AS REQUIRED TO NS WITH CEILINGS.				
			PLUMBING	SYMBOL	<u>5</u>				
			— — —	SOIL AND	WASTE PIPING BELOW FLOC	R/GRADE			
4				SOIL AND	WASTE PIPING ABOVE FLOC	DR/GRADE			
			- HGR- H-	GREASE M	NASTE PIPING TO GREASE IN	TERCEPTOR			(10)
				SANITARY	VENT PIPING ABOVE GRAD	Ξ			
				SANITARY	VENT PIPING BELOW GRAD	=			¢
				DOMESTIC	COLD WATER PIPING				44
				DOMESTIC	COLD WATER PIPING BELO	W FLOOR			(13)
5				DOMESTIC	HOT WATER PIPING				
				DOMESTIC	HOT WATER PIPING BELOW	FLOOR			
				DOMESTIC	HOT WATER RECIRCULATIO	N PIPING			
			—G	GAS PIPIN					
			D		T DRAIN LINE]
				PIPING TUR	RNING DOWN				
			—+o <u>+</u>		CONNECTION				W.W.
6			I						H.H.
					W PREVENTER				
			FDØ	FLOOR DE	RAIN		TO EXISTING 1,500		K K
			FCO 🖸	FLOOR CL	EAN OUT		GALLON GREASE		N N
			WCO I	WALL CLE	AN OUT		EX GREASE		
			+ ₹ +	VALVE					L. H.
			;∳;	BALANCIN	G VALVE				N. N
7			<mark>₩</mark>+	SOLENOID	V VALVE				
-			i	PRESSURE	REGULATOR				
			/	CHECK VA	LVE				
				CONNECT	TO EXISTING				
			I.E.	INVERT EL	EVATION OF PIPE				
			$\langle \! A \! \rangle$		ARKS ON PLUMBING RISER				
				DIAGRAM					
8			\sim	BING PLAN					
					"E TO EXISTING 4" SANITARY OF ANY PIPING.	SEWER AS REQUIRED. VER	FY EXACT LOCATION	I AND I	ELEVATION PRIC
			(-)	ECT VENT TO LLATION OF	D EXISTING 3" VENT PIPE AS ANY PIPING.	REQUIRED. FIELD VERIFY E>	ACT LOCATION PRIC	IR TO	
			(3) 3" PV	C FLUE & 3" F	PVC COMBUSTION AIR PIPING MINATION KIT AS REQUIRED.				
			\frown		MINATION RIT AS REQUIRED. ASE WASTE TO EXISTING 4" (
				ATION PRIOR	TO INSTALLATION OF ANY F	PIPING.			
			<u> </u>		ATE 1- $\frac{1}{2}$ " COPPER DRAINS FINK IN AN ACCESSIBLE LOCA		TO FLOOR SINK WIT	H AIR (SAPS.
9				IECT 1-1/2" DR SSIBLE LOC,	AIN TO SINK AND ROUTE TO ATION.	FLOOR SINK WITH AIR GAP.	LOCATE FLOOR SIN	< IN AN	1
			(7) ROUT	E DRAIN FRO	OM ICE MACHINE TO FLOOR TE SEPARATELY TO FLOOR	•	R THE MANUFACTURE	RS RE	QUIREMENTS.
			(8) PROV	IDE 1" COPP	ER CONDENSATE DRAIN WIT	H AIR GAP FROM WALK-IN C			
	-					1		EAT TR	,ACING.
	Α		B		C	D	E		<u>∣ </u>

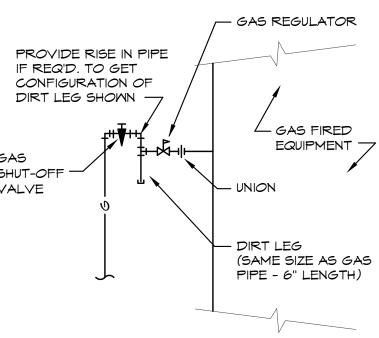


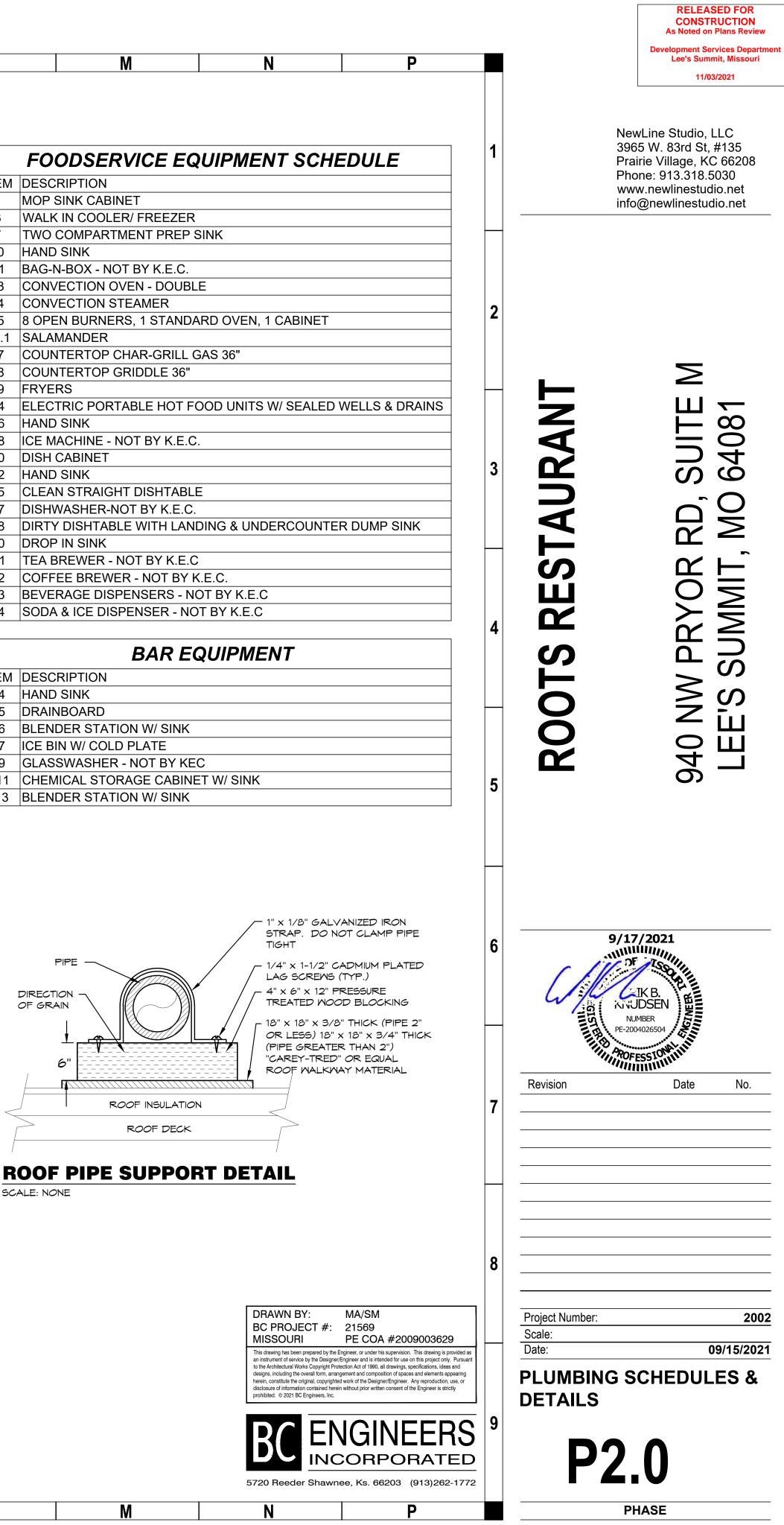
	Α		В	()	D	F	E	F
							A		B
		PLUMBI	NG PLAN NOTES:						
1		COORDIN CFH @ 2 F		OR INSTALLATIO	ON OF NEW ME	ETER WITH CAPACITY FOR 1,	979	ĩ	3/4"6-14 1"6
			1- $\frac{1}{2}$ " CM TO EXISTING 1- $\frac{1}{2}$ " NINSTALLATION OF ANY PI		AS REQUIRED.	VERIFY EXACT LOCATION			
	3	CONNECT INSTRUCTI	GAS PIPING TO EQUIPMEN" ONS.	T AS DETAILED ,	AND PER THE	MANUFACTURERS			
	(4)	ALL APPL	GAS MANIFOLD WITH SHUT	L BE MADE WITH	HUL LISTED FL				
		CONTRAC		ETY LOCK AND	CHAIN AT ALL	GAS APPLIANCES ON WHEEL 1ATE HARD PIPING WITH FLE		2	
	(5)			PROVIDE RP7 B		EVENTOR AS APPROVED BY		1-1/2"-	1"-++ i +1"
2		WATER DE	EPARTMENT IN ACCESSIBLE PIPE DOWNSTREAM OF BFF	LOCATION (24']]
		JURISDICT							
		SUPPRESS	5" GAS PIPE TO COOKING I BION SYSTEM) ON WALL BE 2" MANIFOLD PIPE BEHIND	LOW CEILING IN	AN ACCESSIB	SHUT-OFF VALVE (FIRE LE LOCATION AS REQUIRED.		3/4"	
	8	CONNECT	$\frac{1}{2}$ CM WITH SHUTOFF VAL BY THE KITCHEN EQUIPME	/E AND BACKFL		OR TO EQUIPMENT AS			
	(9)				IRED BY MAN	IFACTURER AND AS DETAILE	Ð.		
3			ONNECTION TO APPLIANCE. ONNECTION TO APPLIANCE					G	
	(12)				FURR-OUT WAI	L FOR FREEZE PROTECTIO	N.		
	(13)	$\frac{1}{2}$ " HM TO MANUFAC	D.M. CONNECT W/ VACUUM TURER.	BREAKER & HA	MMER ARRES	TOR AS REQUIRED BY			
	(14)		HOT WATER RECIRC. PIPING FOR DETAILS.	5 BACK TO WAT	ER HEATER A	S REQUIRED. REFER TO RIS		C	
	(15)	1-1/4" GAS (CONNECTION TO APPLIANC	E.					
4	(16) (17)		N AND HW UNDER SLAB. 2" GAS PIPE UP THROUGH C	HASE TO ROOF	AS REQUIRED	2. SEAL PENETRATION			
4			TIGHT. ALL CONCEALED JC			USE FITTINGS APPROVED FO	OR	V2"	
	(18)		G ON ROOF. SUPPORT AS GAS PIPING TO MAU WITH F						
			GAS PIPING TO EQUIPMENT	WITH VENTLESS	5 REGULATOR	AS REQUIRED AND AS			
	(21)				DROP 1,041 CF	TH FROM 2 PSI TO 7" W.C. 1"	то	1/2"	
	22	PROVIDE	• • =		DROP 398 CFH	FROM 2 PSI TO 7" W.C. $\frac{3}{4}$ "	то		
5									43
									<u> </u>
								6	
6									
								1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
								N.W.	
								1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
									10 10
_								1. N. N.	
7								10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	
	-								
8									PROTECTIÓN
								9	HE EXISTING SF BYSTEM.RELOC REQUIRED FOR
								9	SHALL BE SEMI ROOMS WITHOU
	1								PRINKLER MOF PRE-APPROVEI
								3. F	REFER TO THE
9									RINKLER PIPIN HAZARD FOR K
									RINKLER SYST AUTHORITY ANI
									NORK. ARCHITE
	A		В)	D	F	E	F
				•		<u></u>			

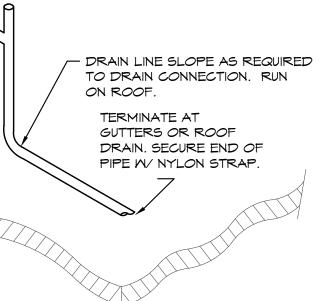


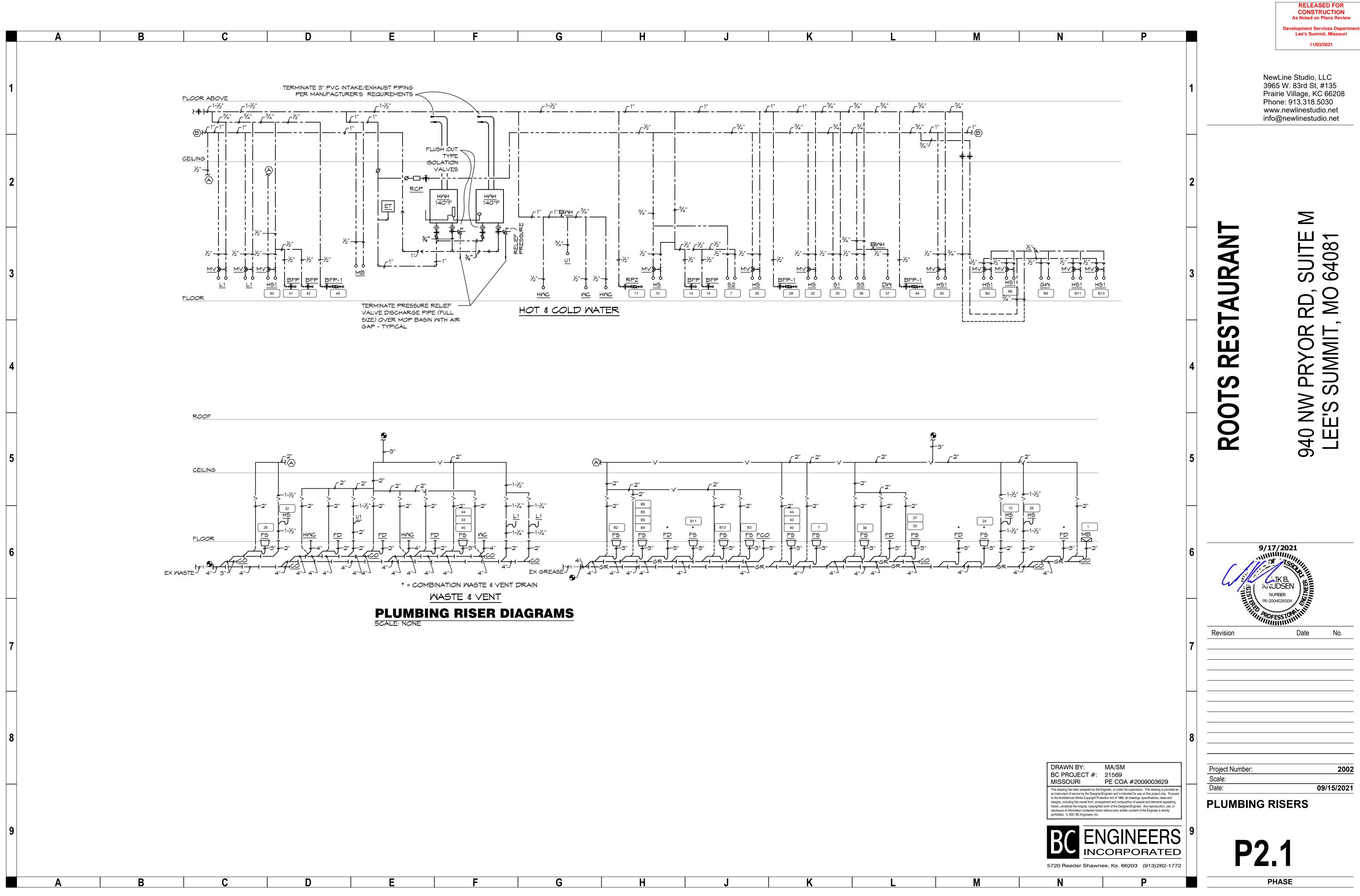
	Α	B C D	E		F	G	H	J	K		L	M
1	Ē	PLUMBING FIXTURE SCHEDULE (OR EQUAL):		<u>PLUMBING F</u>	IXTURE SCHEDI	JLE (OR EQUAL):					f1	
	MC	WATER CLOSET: TOTO, #CST744E(R)(G)N, "DRAKE CLOSE COUPLED TOILET", 1.28	HS		· · · · · · · · · · · · · · · · · · ·	N EQUIPMENT SUPPLIER. THIS P WITH CLEANOUT, WASTE AF		PIPE HAN	GER SCHE	DULE		FOODSERVICE
		GALLON FLUSH, ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, TANK TYPE, VITREOUS CHINA, SIPHON-JET ACTION, #SC534 OPEN FRONT SEAT WITH CHECK HINGE AND LESS COVER, CHROME PLATED ANGLE STOP AND RISER.	<u>HS1</u>	WALL FLANGE. HAND SINK: FUI	. PROVIDE CHROME RNISHED BY KITCHE	PLATED ANGLE STOPS AND N EQUIPMENT SUPPLIER. THIS P WITH CLEANOUT, WASTE AN	D RISERS. IS CONTRACTOR	PIPE MATERIAL	MAXIMUM HANGER SPACING	HANGER ROD DIAMETER	1	DESCRIPTION MOP SINK CABINET
	HMC	, HANDICAP WATER CLOSET: TOTO, #CST744EL(R)N, "DRAKE CLOSE COUPLED TOILET", 1.28 GALLON FLUSH, 16-1/2" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR	H52	WALL FLANGE.	. PROVIDE CHROME	PLATED ANGLE STOPS AND N EQUIPMENT SUPPLIER. THIS	D RISERS.	ABS (All sizes)	4'	3/8"		WALK IN COOLER/ FREE TWO COMPARTMENT P
		OUTLET, TANK TYPE, VITREOUS CHINA, SIPHON-JET ACTION, #SC534 OPEN FRONT SEAT WITH CHECK HINGE AND LESS COVER, CHROME PLATED ANGLE STOP AND	<u></u>	TO PROVIDE A	AND INSTALL P-TRAF	P WITH CLEANOUT, WASTE AN OME PLATED ANGLE STOP	RM TO WALL,	PVC (All Sizes) CPVC, 1 inch and smalle	4' r 3'	3/8"	-	HAND SINK BAG-N-BOX - NOT BY K.
	UI	RISER. HANDLE ON WIDE SIDE OF FIXTURE. URINAL, WALL HUNG: TOTO, #UT447.01, VITREOUS CHINA, WASHOUT, WALL HUNG URINAL	<u>51</u>			D BY KITCHEN EQUIPMENT SI CTOR. PROVIDE (3) 1-½" (C	•	CPVC, 1-1/4 inches and	4'	1/2"		CONVECTION OVEN - D
2		WITH 3/4" TOP SPUD, #TEU1GNC-12 SENSOR OPERATED FLUSH VALVE, BATTERY POWERED, FLOOR MOUNTED FIXTURE SUPPORT. SET RIM HEIGHT PER ARCHITECTURAL	52			GLE STOPS AND RISERS. D BY KITCHEN EQUIPMENT SI	SUPPLIER,	larger Cast Iron (All Sizes)	5'	5/8"		CONVECTION STEAMER 8 OPEN BURNERS, 1 ST
	L1	DRAWINGS. HANDICAP LAVATORY, WALL HUNG: HOMARY, #J020810, VITREOUS CHINA, 39"X20"		INSTALLED BY	GENERAL CONTRAC	CTOR. PROVIDE (2) $1-\frac{1}{2}$ " COUNTING STOPS AND RISERS.	-	Cast Iron (All Sizes) wit		5/8"		SALAMANDER
		RECTANGULAR BASIN, SLOAN "BASYS" EFX-350 SENSOR BATTERY POWERED FAUCET, OFFSET GRID DRAIN WITH 1-1/4" TAILPIECE, CHROME PLATED P-TRAP(MOUNTED	<u>53</u>			TCHEN EQUIPMENT SUPPLIER CTOR. PROVIDE 1-½" TAILP	•	10 foot length of pipe Copper Tube, 1-1/4				COUNTERTOP CHAR-GI
		PARALLEL WITH WALL), CHROME PLATED ANGLE STOPS AND RISERS,INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION.	BFP			NGLE STOPS AND RISERS. SD-3, STAINLESS STEEL DU;	IAL CHECK VALVE FOR	inches and smaller	6'	1/2"	19	FRYERS
	MV	MIXING VALVE: WATTS, #LFUSG-B, THERMOSTATIC CONTROLLED MIXING VALVE, LEAD		CARBONATED	BEVERAGE MACHIN	IES. (ASSE 1022 LISTED) #LF007, LEAD FREE BRONZ		Copper Tube, 1-1/2 inches and larger	10'	1/2"		ELECTRIC PORTABLE H
		FREE BRONZE BODY, LOCKED TEMPERATURE ADJUSTMENT CAP (VANDAL RESISTANT), COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH BRASS SHUTTLE, STANLEGESTEEL SPENCE, INTEGRAL CHECK MALVES ON HOT AND, COLD IN ETG.	<u>BFP-1</u>		NDEPENDENT CHECK	< VALVES, REPLACEABLE C			12'	1/2"	28	ICE MACHINE - NOT BY
3		STAINLESSSTEEL SPRINGS, INTEGRAL CHECK VALVES ON HOT AND COLD INLETS. (SET TO 110° F). ASSE 1070 LISTED.	DW			CHEMICAL DISHWASHER, FL CTOR. CONNECT HOT WAT	•	Steel, 4 inches and larg	er 12'	5/8"		DISH CABINET HAND SINK
	RPZ	REDUCED ZONE PRESSURE BACKFLOW PREVENTOR: WATTS #LF009, LEAD FREE BRONZE BODY CONSTRUCTION, TWO, IN-LINE INDEPENDENT CHECK VALVES,		AND DRAIN PI	PING PER MANUFAC	TURERS REQUIREMENTS.		Pex, 1" and below withous support channel	^{.,t} 32"	3/8"	35	CLEAN STRAIGHT DISH
		REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE, AND BALL VALVE TEST COCKS.	MHA			SMITH 'HYDROTROL' #5000 ER MANUFACTURER'S RECO		Pex, 1-1/4" and above	48"	3/8"		DISHWASHER-NOT BY P DIRTY DISHTABLE WITH
	<u>FD</u>	FLOOR DRAIN: JR SMITH, #2005-A-P050, CAST IRON FLOOR DRAIN WITH ADJUSTABLE TOP, 6" NIKALOY STRAINER, AND TRAP PRIMER (TS) CONNECTION.						without support channe		5/6	40	DROP IN SINK
	<u>F5</u>	FLOOR SINK: JR SMITH, #3161, CAST IRON RECEPTOR, A.R.E. INTERIOR, 12"X 12" NICKEL BRONZE STRAINER, SEDIMENT BUCKET.						Pex ¾" and below with support channel	6'	3/8"		TEA BREWER - NOT BY COFFEE BREWER - NOT
	<u>T5</u>	TRAP SEAL: SURE SEAL PRE-ASSEMBLED INLINE FLOOR DRAIN TRAP SEALER. FLOOR RATING ASSE – 1072 AF-GW.						Pex 1" and above with support channel	8'	3/8"	43	BEVERAGE DISPENSER
4	HMH	HOT WATER HEATER: RINNAI, #CU199I, GAS FIRED, 98% THERMAL EFFICIENCY,	1								」 44	SODA & ICE DISPENSER
		INSTANTANEOUS HEATER, 199 MBTUH INPUT, 5 GPM AT 75 DEGREES F RISE, WITH INTERNAL RECIRCULATION PUMP. PROVIDE WITH REMOTE CONTROLLER, EASY VALVE SET, PRESSURE RELIEF VALVE, CONDENSATE DRAIN HOSE, CONDENSATE NEUTRALIZER, VENT				RANCH PIPING SCH						BAI
	ET	TERMINATORS. SET AT 140°F. HOT WATER EXPANSION TANK: AMTROL, #ST-5, 2 GALLON EXPANSION TANK			FIXTURE						ITEM	DESCRIPTION
	<u>ET</u>	WITH DIAPHRAGM.		WATER CLOSET	(TANK TYPE)	4" 2"	1/2"					HAND SINK DRAINBOARD
	RCP	HEAD, 1/12 HP, 120 VOLT, WITH HONEYWELL #L6006C1018 AQUASTAT & TACO #265-3		URINAL		2" 1-1/2"	3/4"				-	BLENDER STATION W/ S
		7-DAY DIGITAL TIMER, 135°-140°F, $\frac{1}{2}$ " Φ PIPE.		LAVATORY		1-1/4" 1-1/4"	1/2" 1/2"					ICE BIN W/ COLD PLATE GLASSWASHER - NOT E
5				SINK		1-1/2" 1-1/2"	1/2" 1/2" PRC	OVIDE RISE IN PIPE				CHEMICAL STORAGE C
				FLOOR SINK		3" 2"	100	REQ'D. TO GET NFIGURATION OF	4		B13	BLENDER STATION W/ S
		- FROM UNIT DRAIN PAN		FLOOR DRAIN		2"/3" 2"		T LEG SHOWN	GAS FIRED			
				MOP BASIN		2" 2"	1/2" 1/2"					
		CLEANOUT WITH PIPE CAP (TYPICAL)		DIAGRAMS HAVE	E BEEN INCREASED #	RES ON PLANS AND RISER NHERE HORIZONTAL VENT L	ENGTH		N			
				15 IN EXCESS OF	THE MAXIMUM DISTA	ANCE INDICATED BY THE CO	DDE.	GAS	SHUT-OFF VALVE			
6									E SIZE AS GAS			
									- 6" LENGTH)			
		- DRAIN LINE SLOPE AS REQUIRED TO DRAIN CONNECTION.										
								GAS CONNECTION				
		TERMINATE AT P-TRAP WITH AIR GAP					-	SCALE: NONE	DETAIL			
					UNIT DRAIN PAN							6"
7								G,	AS REGULATOR			
		CONDENSATE DRAIN DETAIL			CLEANOUT WIT CAP (TYPICAL,			ROVIDE RISE IN PIPE			\leq	
		SCALE: NONE					C	REQ'D. TO GET	1		/-	`
									GAS FIRED		R	OOF PIPE SUP
						AIN LINE SLOPE AS REQUIRI	GAS				SC,	ALE: NONE
				\sim	/ / то	DRAIN CONNECTION. RUN			ION			
0					П / П	ERMINATE AT SUTTERS OR ROOF						
0						DRAIN. SECURE END OF PIPE W/ NYLON STRAP.		(5	RT LEG AME SIZE AS GAS PE - 6" LENGTH)			
						~ 7 ~ ~	4					
				\sim			1					
							-			۲u)		
							A	5AS PRESSURE REGULATORS FO AND MAKE-UP AIR UNITS (MAU) SH 143-80-2, 2 PSI INLET / 7" MC OL	ALL BE SENSUS			
				CON		RAIN DETAIL	C	DRIFICE & SPRING SIZE AS RECON 1ANUFACTURER.				
9				SCALE: 1		LAIN DETAIL		GAS CONNECT	ION DETAIL	_		
								SCALE: NONE FOR ROOFTOP UNITS, MA	KE-UP AIR UNITS			
								ETC. WITH 2 PSI GAS PRE				
	Α	B C D	E		F	G	H	J	K		L	M





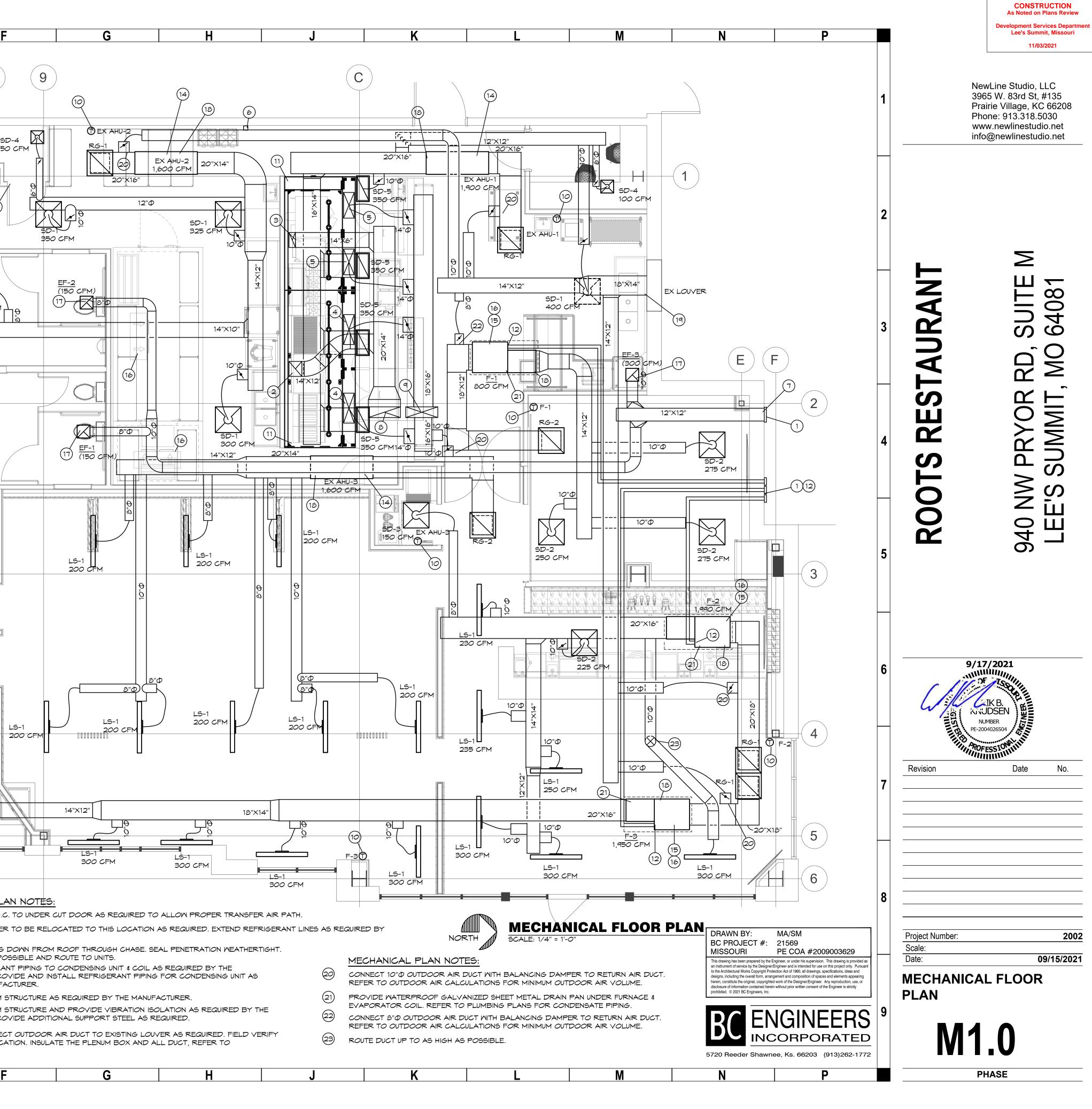




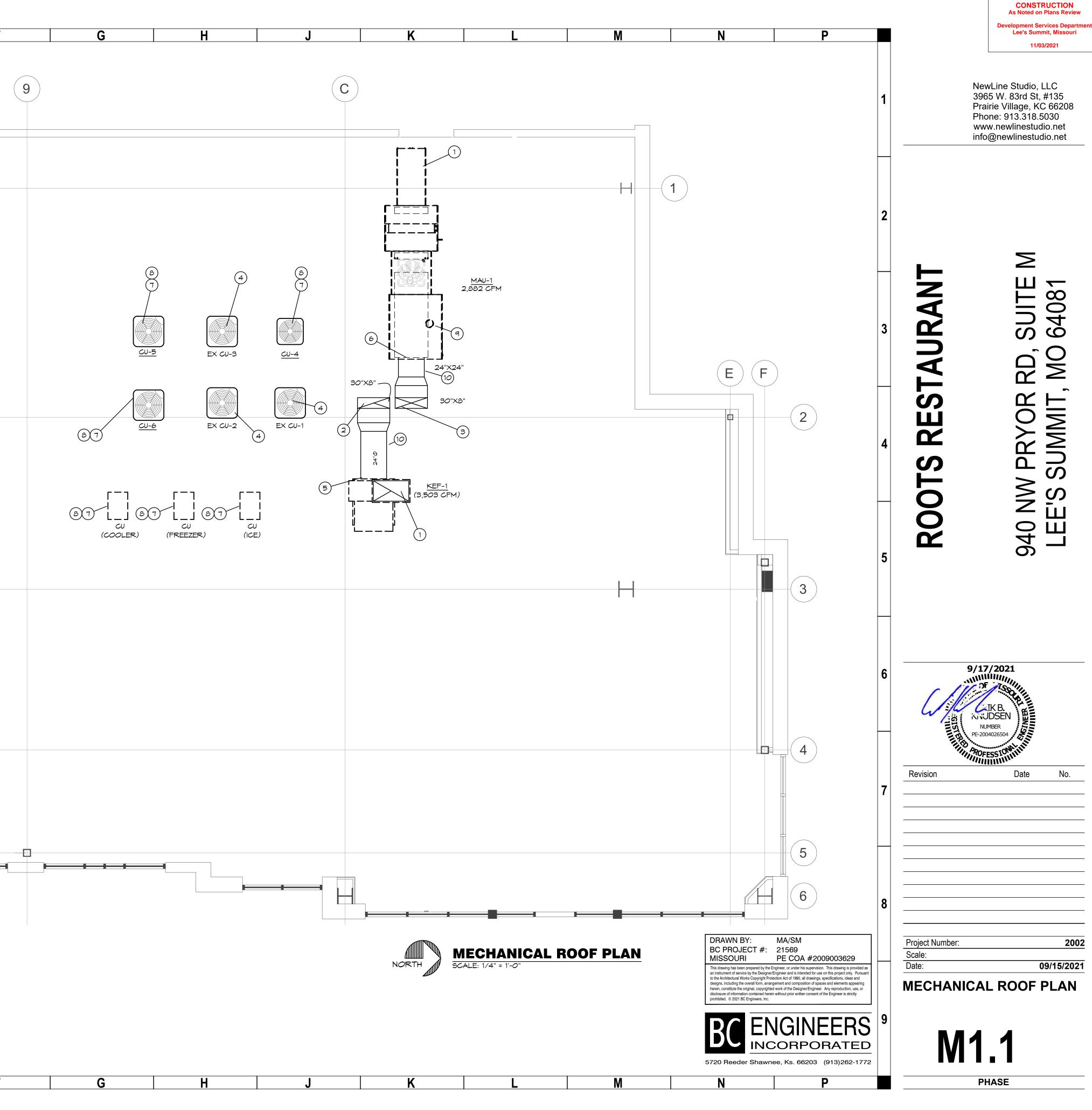


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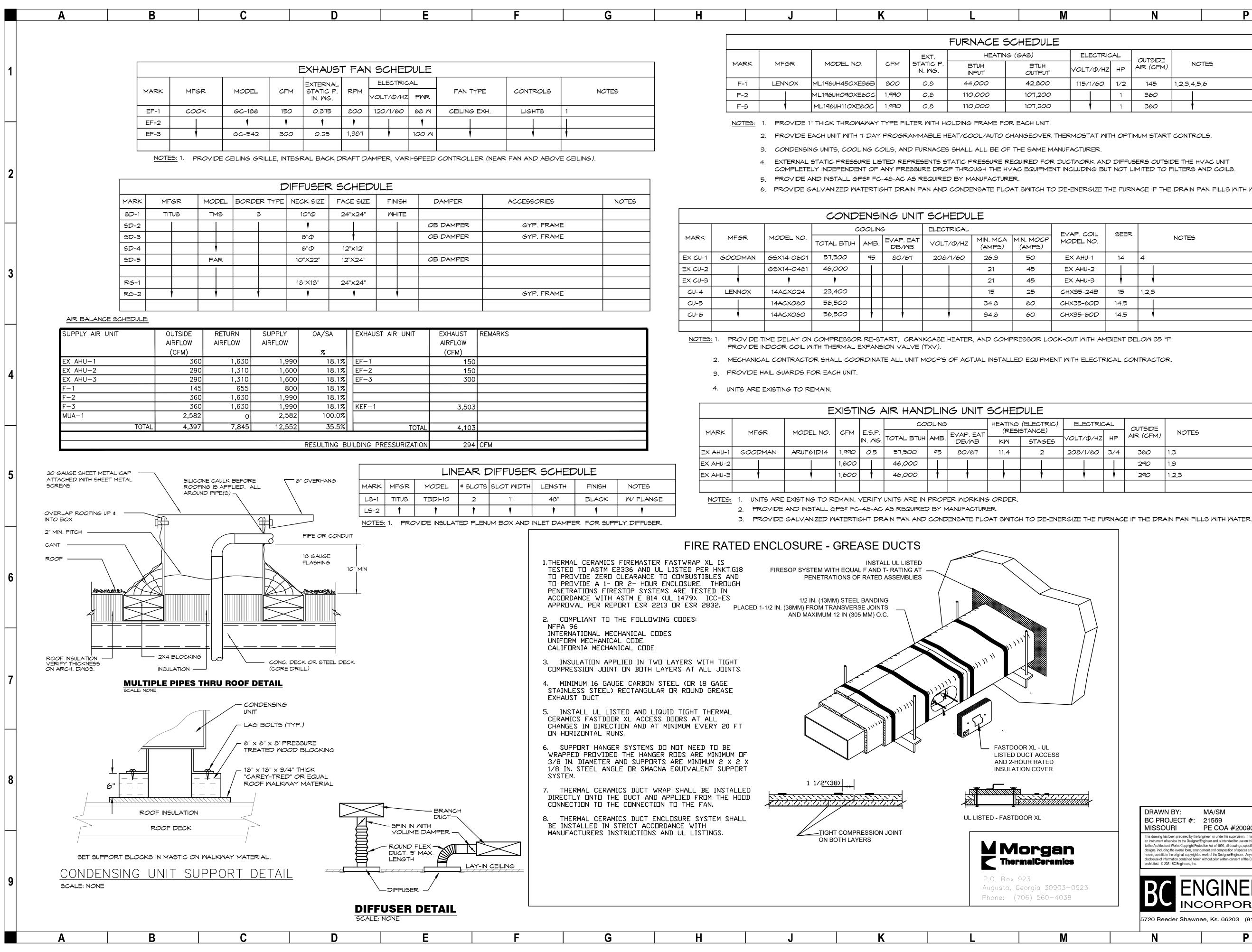
	Α	B	C		D	E	F
	MECHANI	ICAL GENERAL NOTE	5:				
		DINATE ALL WORK WITH O RED TO PROPERLY INSTAL				(\mathbf{A})	(B)
1		NES OF THE SPACES AVAIL		•			
•		ONTRACTOR SHALL PERFORMED FOR THE PROPER INS			5		
		ANICAL SYSTEMS.					
		R TO ARCHITECTURAL REFL FFUSERS.	ECTED CEILING PLANS F	FOR EXACT LOC	CATIONS		51 50
		L ALL DUCT, PIPE, ETC. AS	HIGH AS POSSIBLE				
		SIZES SHOWN ARE ACTUAL					
		NANCE FOR DUCT LINER WH					
2		IDE FLEXIBLE CONNECTION IST FANS, AND OTHER MOT		ND ROOFTOP L	JNITS,		(13)
		ICT SHALL BE ROUTED OVE				Ц5-2	
		ATERIALS WITHIN PLENUMS					<u> </u>
	A FLAI	ME SPREAD INDEX OF NOT OF NOT MORE THAN 50 W	MORE THAN 25 AND A	SMOKE-DEVELO	OPED		
		ECHANICAL SYSTEMS SHAL					
		RACTOR. REFER TO SPEC					5D-3 125 CFM
2	10. FIRE-S	EAL ALL PENETRATIONS T	HRU FIRE-RATED WALLS	AND FLOORS.			
3							- - -
		MECHANICAL SYMBO	<u>0L5</u>				α [Φ]
	\boxtimes	NEW SUPPLY DIFFUS	SER				
		NEW RETURN AIR G	RILLE				
		EXHAUST GRILLE/F	AN				
	9	REMOTE TEMPERA					
4	Ø	THERMOSTAT, MOU	NTED AT 48" AFF				
							SD-3
	32"x14						125 CFM
	6"Ф					13 LS-	2
	@) FLOOR PLAN NOTE	DESIGNATION				
	S.A.	SUPPLY AIR					
5	R.A	. RETURN AIR					
	EXH	EXHAUST AIR					
		TRANSITION IN DUC	T SIZE			100 CFM	
	Ker	ELBOM WITH TURNIN					
		MANUAL VOLUME D	AMPER			LS-1	
6		SUPPLY AIR DUCT I				225 CFM	
		IN DIRECTION OF F	ION UP (UP) DOWN (DN) LOW				
	RTU-1	SCHEDULED MECHA	ANICAL EQUIPMENT				CFM
							
-							
1		CAL PLAN NOTES:					
	\sim —	SEPARATION BETWEEN AL	L EXH. & FLUE OUTLETS 1	TO ALL OUTDOC	OR AIR INTAKES.		
		'X12" FIRE WRAPPED GREA FER TO GREASE DUCT DET		TO HOOD AS F	REQUIRED. REFER		
	(3) PROVIDE 14"	'X6" FIRE WRAPPED GREAS	BE DUCT AND CONNECT	TO HOOD AS R	EQUIRED. REFER		LS-1 300 CFM
		FER TO GREASE DUCT DET AND CONNECT 14"D TO 28					
	О ТО 768 СFM	AS REQUIRED AND ROUTE	TO SUPPLY PLENUM ON	HOOD.			
8		AND CONNECT 14"Ф TO 24 AS REQUIRED AND ROUTE			BALANCING DAM		
	\bigcirc	PF MANUAL PULL STATION. (COORDINATE LOCATION	WITH LOCAL FI	RE MARSHAL/ AH.		NOINATE WITH G.C
		2" DUCT OUT THROUGH WAL UTDOOR AIR INTAKES. SEA			IN MIN 10'-0" CLEA		NG AIR HANDLER FACTURER.
-	(B) TRANSITION A EXACT LOCA	AND CONNECT TO EXISTING TION.	9 30"X8" GREASE DUCT I	N CHASE AS RE	EQUIRED. FIELD VE		IGERANT PIPING E AS HIGH AS PC
		AND CONNECT TO EXISTING ZE AND LOCATION PRIOR			FIELD VERIFY EXA	ACT (16) CONN	IECT REFRIGERAI FACTURER. PRO
	10 LOCATION OF	F THERMOSTATS MOUNTED NE ACCORDINGLY.			TION WITH OWNER	. LABEL REQU	IRED BY MANUFA
9	(11) MAINTAIN A N	MIN OF 18" FROM ALL COM	BUSTIBLE MATERIALS TO	D TYPE 1 HOOD		\leq	ORT FAN FROM S ORT UNIT FROM S
		LUE & COMBUSTION AIR INTA N AS REQUIRED. OFFSET A					FACTURER. PRO
		R INTAKES. SEAL PENETRA				EXAC	SITION & CONNEC T SIZE AND LOCA
							IFICATIONS.
	Α	B	C		D	E	F



R С D Β Α MECHANICAL PLAN NOTES: (1)MAINTAIN 10' SEPARATION BETWEEN ALL EXH. & FLUE OUTLETS TO ALL OUTDOOR AIR INTAKES. 2 TRANSITION AND CONNECT TO EXISTING 30"X8" GREASE DUCT IN CHASE AS REQUIRED. FIELD VERIFY EXACT LOCATION. SEAL PENETRATION WEATHERTIGHT. Э TRANSITION AND CONNECT TO EXISTING 30"X8" DUCT IN CHASE AS REQUIRED. FIELD VERIFY EXACT LOCATION. PROVIDE FIRE-DAMPER AT FIRE-PENETRATION AND SEAL PENETRATION WEATHERTIGHT. 4 EXISTING CONDENSING UNITS TO REMAIN AS IS. VERIFY UNITS ARE IN PROPER WORKING ORDER. COORDINATE WITH LANDLORD TO RELOCATE AS REQUIRED TO ALLOW FOR MAINTENANCE AND CLEARANCES FOR MECHANICAL EQUIPMENT. (5) TRANSITION AND CONNECT TO KEF-1 AS REQUIRED. 6 TRANSITION AND CONNECT TO MAU-1 AS REQUIRED. \bigcirc REFRIGERANT PIPING DOWN THROUGH ROOF IN CHASE. SEAL PENETRATION WEATHERTIGHT. ROUTE AS HIGH AS POSSIBLE AND ROUTE TO UNITS. 8 CONNECT REFRIGERANT PIPING TO CONDENSING UNIT & COIL AS REQUIRED BY THE MANUFACTURER. PROVIDE AND INSTALL REFRIGERANT PIPING FOR CONDENSING UNIT AS REQUIRED BY MANUFACTURER. (9) VERIFY 10'-0" CLEARANCE FROM MAKE-UP AIR UNIT FLUE TO ALL OUTDOOR AIR INTAKES. 10 EXTERIOR DUCTWORK TO BE INSULATED WITH JACKETING, MINIMUM R-8. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. F D



G	H	J	K	Μ



CESSORIES	NOTES
GYP. FRAME	
GYP. FRAME	
GYP. FRAME	

SER SCHEDULE							
NIDTH	LENGTH	FINISH	NOTES				
	48"	BLACK	W/ FLANGE				
	*	1	*				

D	INLET	DAMPER	FOR	SUPPLY	DIFFUSER.

	J		Κ		L	M			Ν		Ρ
					FURNACE						
					-	IG (GAS)	ELECTRI			1	
	UE 6 B			EXT.			ELECTRI		OUTSIDE	NOTEC	
MARK	MFGR	MODEL NO.	CFM	STATIC P. IN. MG.	BTUH INPUT	BTUH OUTPUT		HP	AIR (CFM)	NOTES	
F-1	LENNOX	ML1960H450XE36B	800	0.8	44,000	42,800	115/1/60	1/2	145	1,2,3,4,5,6	
F-2		ML196UHO90XE60C	1,990	0.8	110,000	107,200		1	360		
F-3	•	ML196UH110XE60C	1,990	0.8	110,000	107,200	1	1	360		

2. PROVIDE EACH UNIT WITH 7-DAY PROGRAMMABLE HEAT/COOL/AUTO CHANGEOVER THERMOSTAT WITH OPTIMUM START CONTROLS.

4. EXTERNAL STATIC PRESSURE LISTED REPRESENTS STATIC PRESSURE REQUIRED FOR DUCTWORK AND DIFFUSERS OUTSIDE THE HVAC UNIT COMPLETELY INDEPENDENT OF ANY PRESSURE DROP THROUGH THE HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO FILTERS AND COILS.

6. PROVIDE GALVANIZED WATERTIGHT DRAIN PAN AND CONDENSATE FLOAT SWITCH TO DE-ENERGIZE THE FURNACE IF THE DRAIN PAN FILLS WITH WATER.

	CONDENSING UNIT SCHEDULE											
			C	OOLING	3	ELECTRICAL			EVAP. COIL	SEER	NOTES	
MARK	MFGR	MODEL NO.	TOTAL BTUH	AMB.	EVAP. EAT DB/MB	VOLT/Ф/HZ	MIN. MCA (AMPS)	MIN. MOCP (AMPS)	MODEL NO.	SLLK		
EX CU-1	GOODMAN	G5X14-0601	57,500	95	80/67	208/1/60	26.3	50	EX AHU-1	14	4	
EX CU-2		G5X14-0481	46,000				21	45	EX AHU-2			
EX CU-3	ł	*	*				21	45	EX AHU-3	•	↓	
CU-4	LENNOX	14ACX024	23,400				15	25	CHX35-24B	15	1,2,3	
CU-5		14ACX060	56,500				34.8	60	CHX35-60D	14.5		
CU-6	ł	14ACX060	56,500	1		¥	34.8	60	CHX35-60D	14.5	•	

PROVIDE TIME DELAY ON COMPRESSOR RE-START, CRANKCASE HEATER, AND COMPRESSOR LOCK-OUT WITH AMBIENT BELOW 35 °F.

2. MECHANICAL CONTRACTOR SHALL COORDINATE ALL UNIT MOCP'S OF ACTUAL INSTALLED EQUIPMENT WITH ELECTRICAL CONTRACTOR.

				E	XISTI	NG A	AIR HANI	DLIN	NG UNIT	SCHEI	DULE				
							00	OLING	2		(ELECTRIC)	ELECTRIC	CAL	OUTSIDE	
MARK			CFM	E.S.P.	TOTAL BTUH		EVAP. EAT	(RESI	STANCE)	VOLT∕Φ∕HZ	μ	AIR (CFM)	NOTES		
				IN. MG.			DB/MB	KΜ	STAGES	YOLT/W/HZ	ΠΓ				
EX AHU-1	GOOI	PMAN	ARUF	51D14	1,990	0.5	57,500	95	80/67	11.4	2	208/1/60	3/4	360	1,3
EX AHU-2					1,600		46,000							290	1,3
EX AHU-3				ł	1,600		46,000			•	•		V	290	1,2,3
NOTES:	1. UN	ITS ARE	EXISTIN	G TO R	EMAIN.	VERIFY	UNITS ARE IN	PROF	'ER WORKING	GORDER.	•				

DRAWN BY:

MISSOURI

BC PROJECT #: 21569

MA/SM

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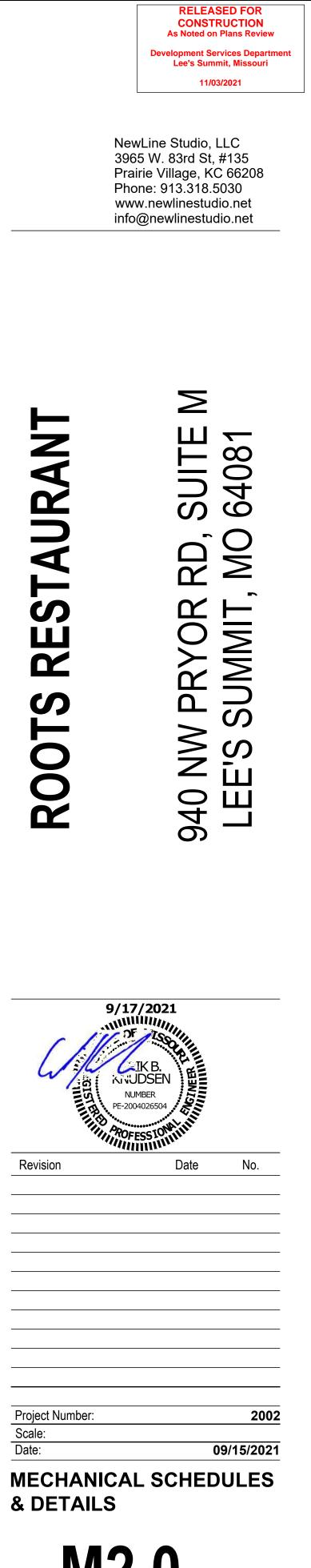
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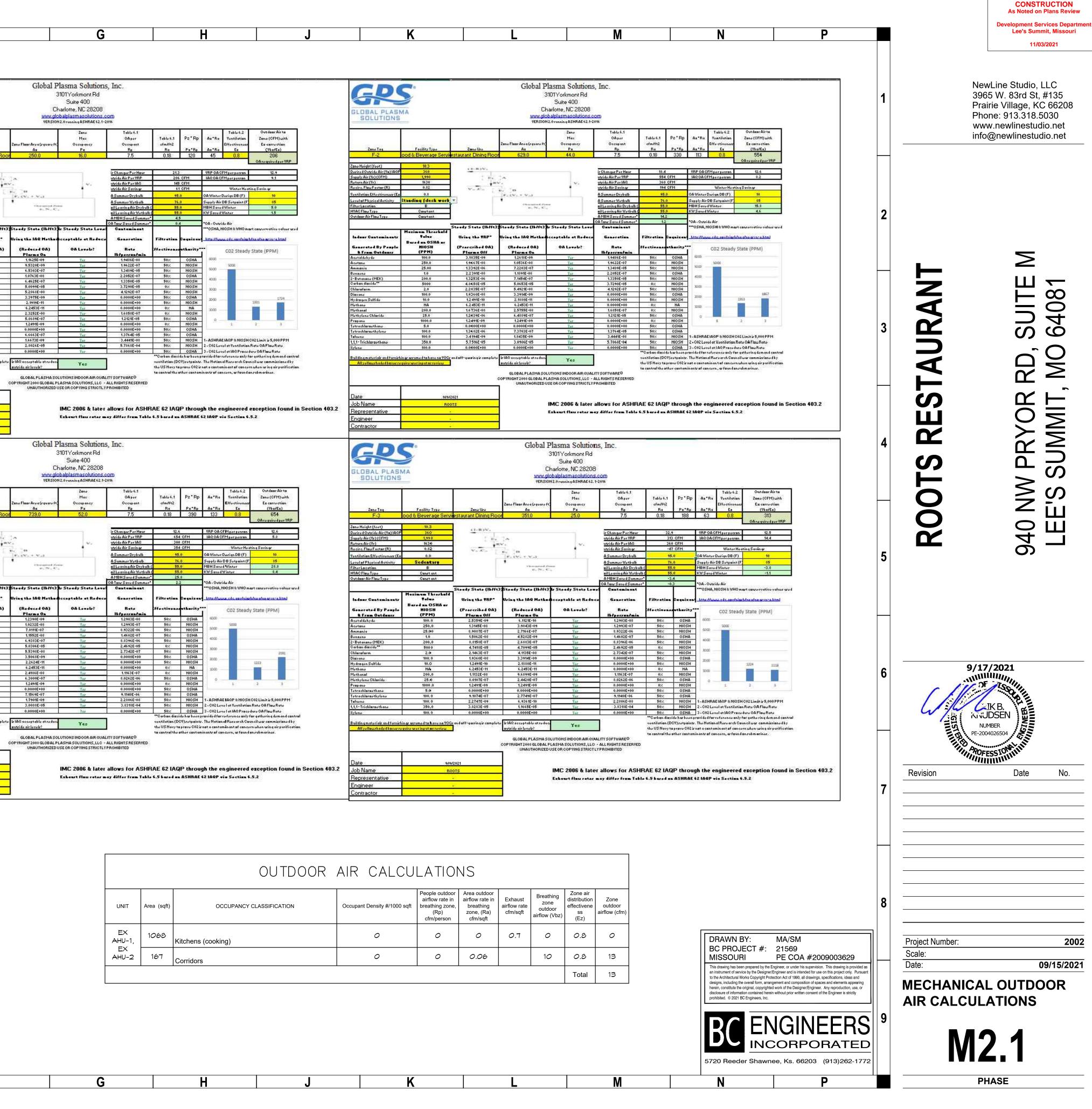
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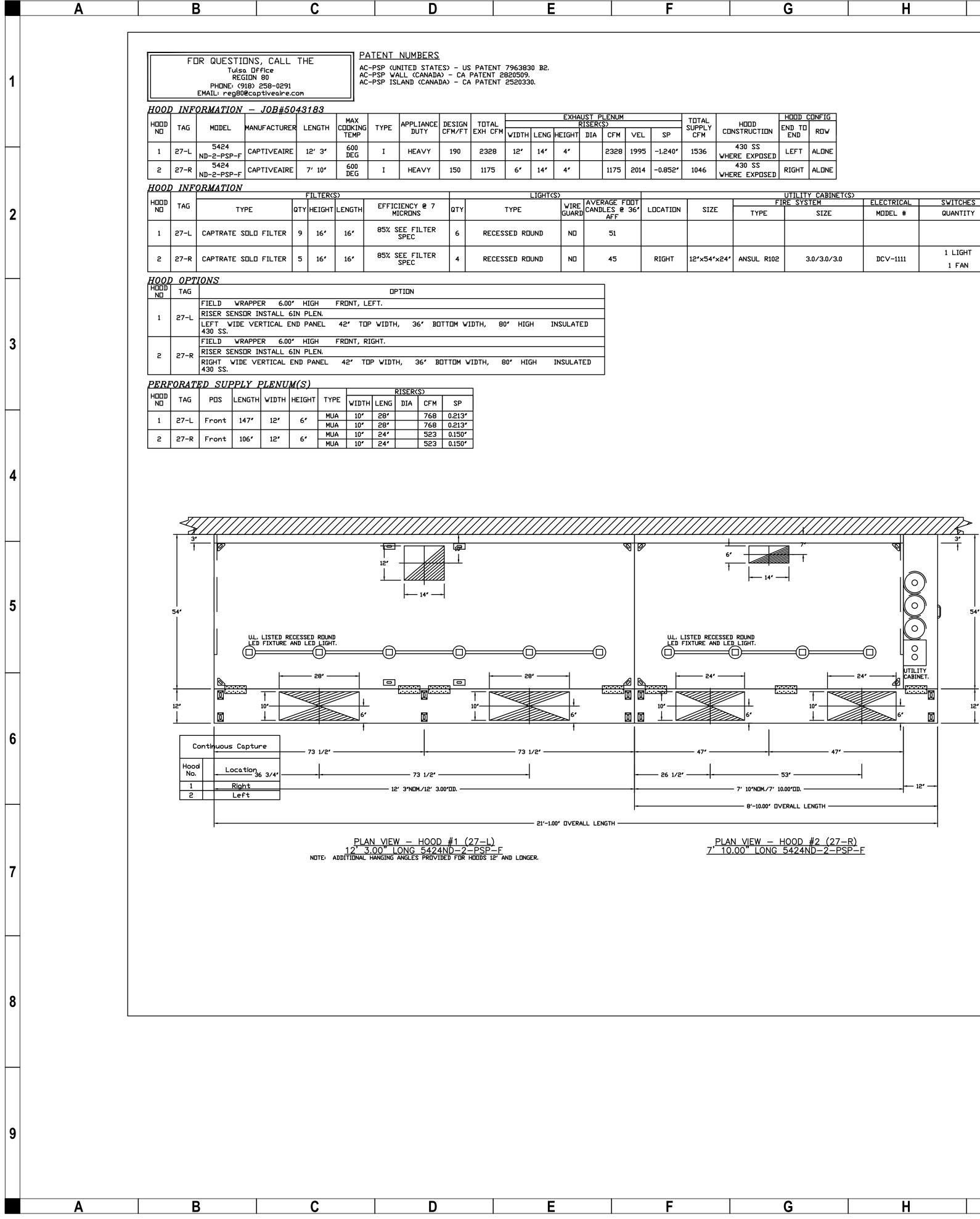


PHASE

	Α	B	(D	E		F
1						GR	5	
						GLOBAL PLAS	MA	6
						Zono Tag F-1	Facility Type Ood & Beverage Service	Zens Urs estaurant Dining Ros
						Zane Height (feet) Desired Outride Air (Va) IAQF Supply Air (Vz) (GFM) Boturn Air (Vr)	9.0 145 800 655	0-83V.
						Rocirc. Flau Factor (R) Vontilation Effoctivonous (Ex Lovel of Physical Activity Filter Location	0.82 0.8 Standing (desk work) B	v
2						HVAC Flow Type Outdoor Air Flow Type	Hezimen Threshold	Standy State (Ib/ft
						Indusr Contaminantr Generated By People & From Outdamr Acotaldohydo	Felue Bared na OSHA nr HIOSH (PPM) 100.0	Uring the VRP* (Prescribed OA) Plarme Off 3.1386E-09
						Acotano Ammania Bonzono 2-Butanano (MEK) Carban diaxide**	250.0 25.00 1.0 200.0 5000	1.9215E-08 1.3081E-06 2.1883E-08 1.2945E-06 4.8572E-05
						Chlarafarm Diaxane Hydragen Sulfide Methane Methanal	2.0 100.0 10.0 NA 200.0	2.2740E-07 1.9360E-08 1.2491E-10 6.2453E-11 1.6347E-08
3						Methylene Chluride Propane Tetrachloroethane Tetrachloroethylene	25.0 1000.0 5.0 100.0	1.1760E-06 1.2491E-09 0.0000E+00 1.3365E-06
						Taluene 1,1,1 - Trichlaraethane Xylene Building materialr and furnür	100.0 350.0 100.0 ingr arrumed to have no VOCr	3.3401E-09 5.6183E-05 0.0000E+00 and off-gazing iz complet
						All yellouzhaded boxer r	quire wor input ar review	1
						Date Job Name Representative	9/9/2 800	
4						Engineer Contractor	2	()
-						GR		
						GLOBAL PLASI SOLUTIONS	ла —	
						Zano Tag F×3	Facility Type ood & Beverage Servi <mark>e</mark>	Zano Uro estaurant Dining Roo
						Zano Hoight (foot) Dorirod Outrido Air (Va) IAQP Supply Air (Vr)(CFM) Roturn Air (Vr) Roturn Air (Vr) Rotire, Flau Factor (R)	10.3 300 1,600 1300 0.81	11-H3V. 1 - H3V.
5						Vontilation Effoctiveneur (Ex Lovel of Physical Activity Filter Location HVAC Flow Type	0.8 0.8 Sedentary B Constant	¥- £-
						Outdoor Air Flau Type Indoor Conteminentr	Constant	Stoady Stato (Ib/ft Uring the TRP*
						Generated By People & From Outdowr Acotaldohydo Acotano	Bared un OSHA ur HIOSH (PPM) 100.0 250.0	(Pres-cribed OA) Plarme Off 2.5319E-09 1.3106E-08
						Ammania Bonzono 2-Butanano (MEK) Carban diaxido" Chlarafarm	25.00 1.0 200.0 5000 2.0	8.8814E-07 1.5017E-08 8.7887E-07 4.7411E-05 2.1454E-07
6						Diaxano Hydraqon Sulfido Mothano Mothanal	100.0 10.0 NA 200.0	1.9360E-08 1.2491E-10 6.2453E-11 1.1098E-08
						Mothylono Chlarido Prapano Totrachlaraothano Totrachlaraothylono 	25.0 1000.0 5.0 100.0	7.9861E-07 1.2491E-09 0.0000E+00 9.0795E-07
						Taluono 1,1,1-Trichlaraothano Xylono Building materials and furnish	100.0 350.0 100.0 ingr azzumod ta havo na VOCr a	2.2677E-09 3.8165E-05 0.0000E+00 and off-qarring ir complet
						All yollnushədəd buxor ro	quire werinput orreview	
						Date Job Name Representative	9/9/2 800	TS
7						Engineer Contractor		
8								
9								
	Α	B	(D	E		F



	OUTDOOR AIR CALCULATIONS								
UNIT	Area (sqft)	OCCUPANCY CLASSIFICATION	Occupant Density #/1000 sqft	People outdoor airflow rate in breathing zone, (Rp) cfm/person	Area outdoor airflow rate in breathing zone, (Ra) cfm/sqft	Exhaust airflow rate cfm/sqft	Breathing zone outdoor airflow (Vbz)	Zone air distribution effectivene ss (Ez)	Zone outdoor airflow (cfm)
EX AHU-1,	1068	Kitchens (cooking)	0	0	0	0.7	0	0.8	0
EX AHU-2	167	Corridors	0	0	0.06		10	0.8	13
								Total	13



F	G	Н	J	K	Μ

									A UN	IQUE S	S-BAFF	LE	DES	IGN I		NJUN	СТІО	IS A SIN N WITH A CIENCY.						
										ER IS CH DEE						TRUC	TION	, AND SIZ	ED TO	FIT INT] STANDA	RD		
	TOTAL SUPPLY	HOOD	HOOD (END TO	CONFIG					- · · - ·	s shal 'Dnent						STEEL	L HA	NDLES AI	ND A F	ASTENING	DE∨ICE	TO SECUR	re the	TWD
SP	CFM	CONSTRUCTION	END IL	ROW																		GF GREA		D
-1.240″	1536	430 SS WHERE EXPOSED	LEFT	ALONE					THE	CAPTR	ATE GI	REAS	SE-S	тор :	SOLO	WAS	TES	STED TO	ASTM S	STANDARD	ASTM F2			JGE.
-0.852″	1046	430 SS WHERE EXPOSED	RIGHT	ALONE						I FACTU IENCY V					USE	IN S	SOLI	D FUEL A		SURE DROP		K ARREST ATE	ER.	
									1	00							\prod		3.50					
		_	UTILIT IRE SYS	Y CABINET(ELECTRICAL	SWITCHES	FIRE	ноор								H	11		3.00					
CATION	SIZE			SIZE	MDDEL #	QUANTITY		HANGING WEIGHT	ICY (%)	0						\mathcal{M}			2.50			\bigwedge		
							YES	701 LBS	EFFICIEN	0					1				H (U) 2.00					

666 LBS

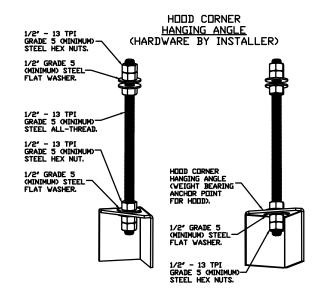
YES

0.1	PAR	TICLE	DIAMETH	ER (L	10.0 JM)	
CAPTRATE	FILTERS	ARE	BUILT	IN	COMPLIANCE	WITH.

SPECIFICATION: CAPTRATE GREASE-STOP SOLD FILTER

NFPA #96. NSF STANDARD #2. UL STANDARD #1046. INT. MECH. CDDE (IMC). ULC-S649.

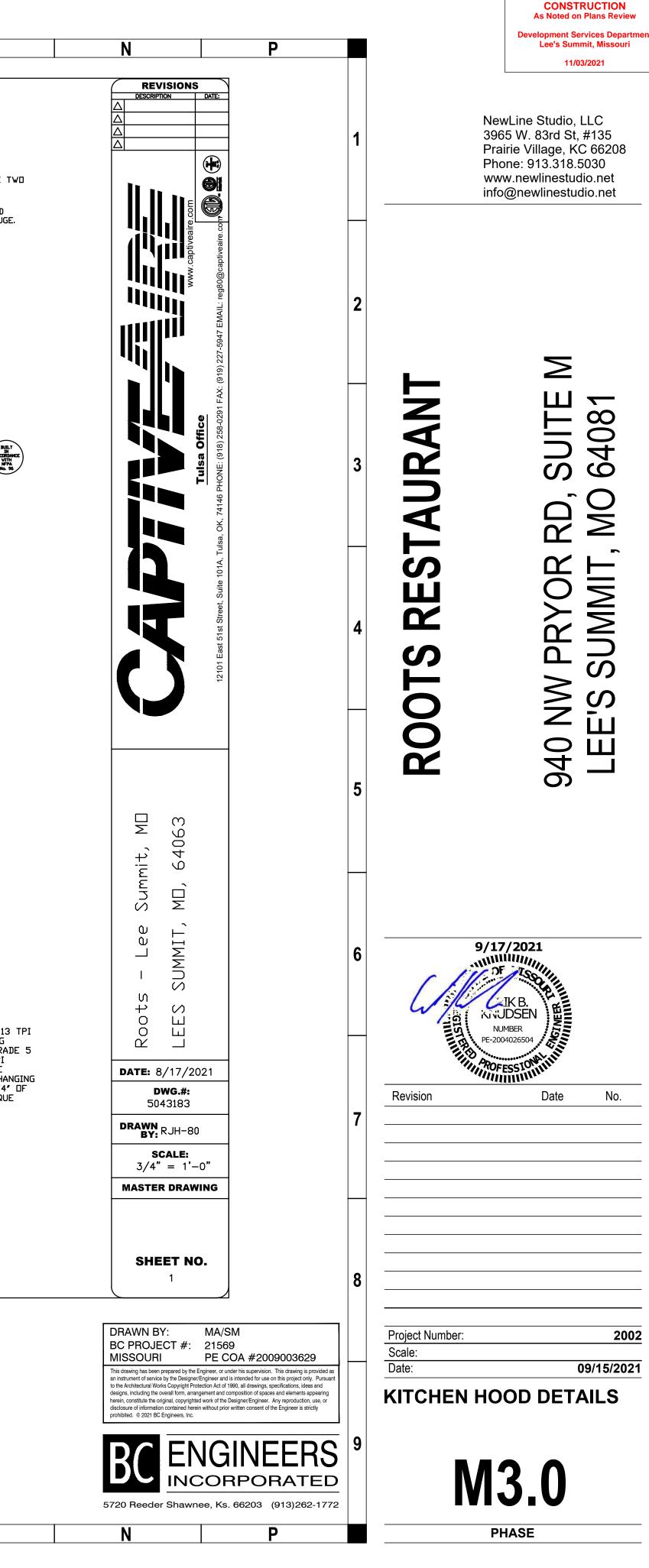


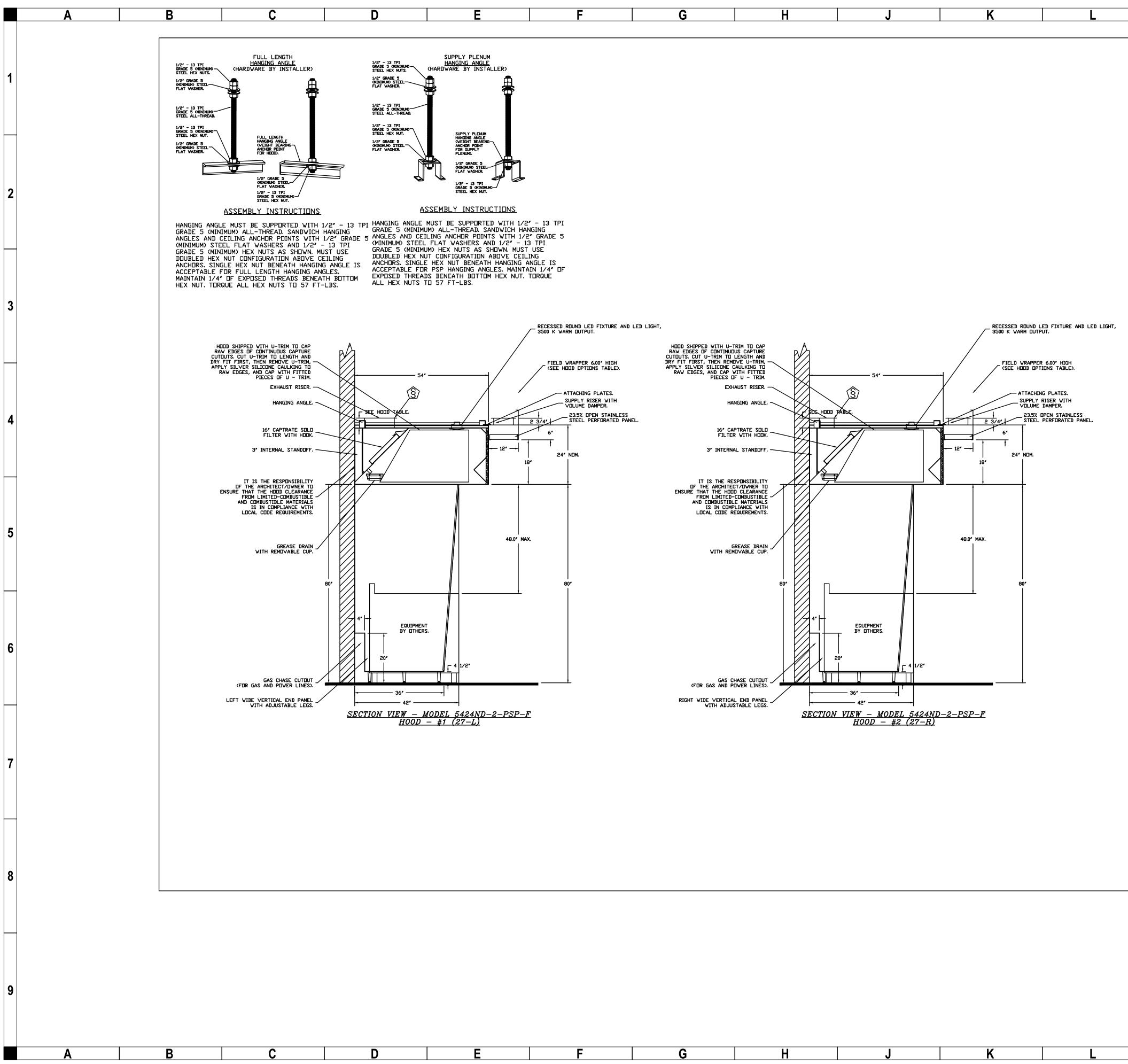


ASSEMBLY INSTRUCTIONS

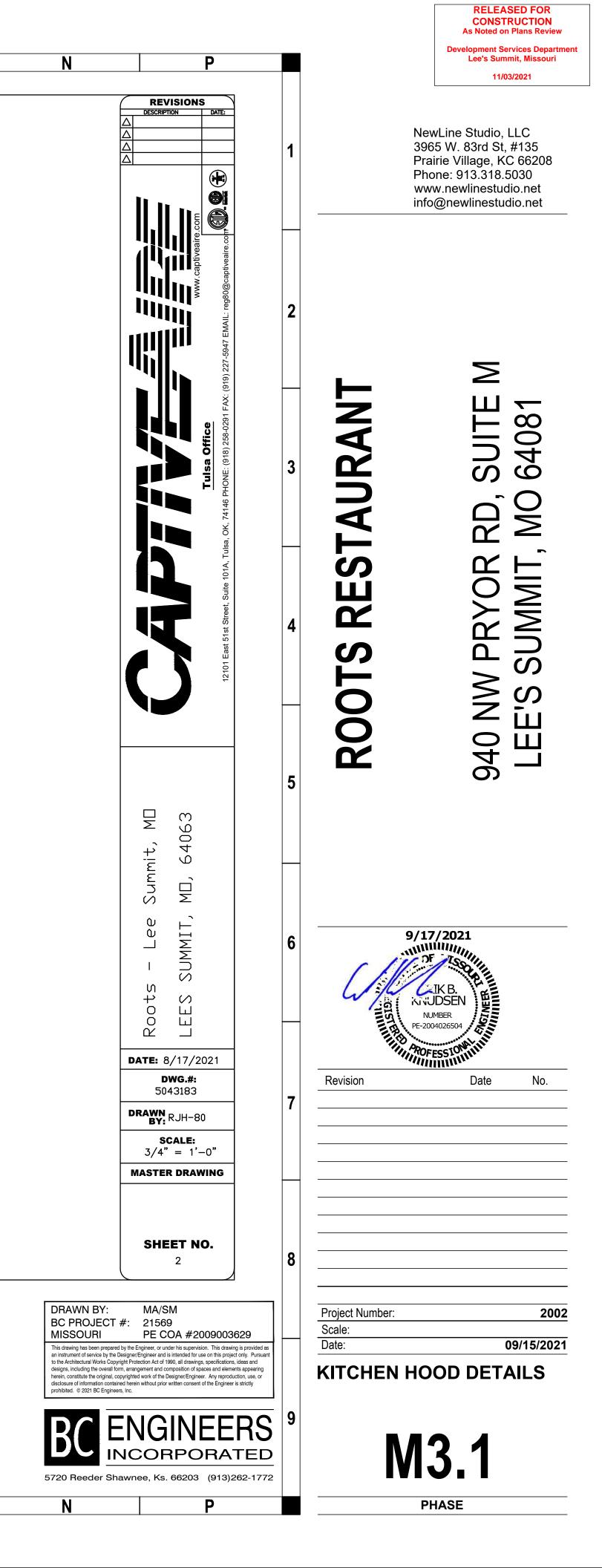
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

G	Н	J	K	L	Μ

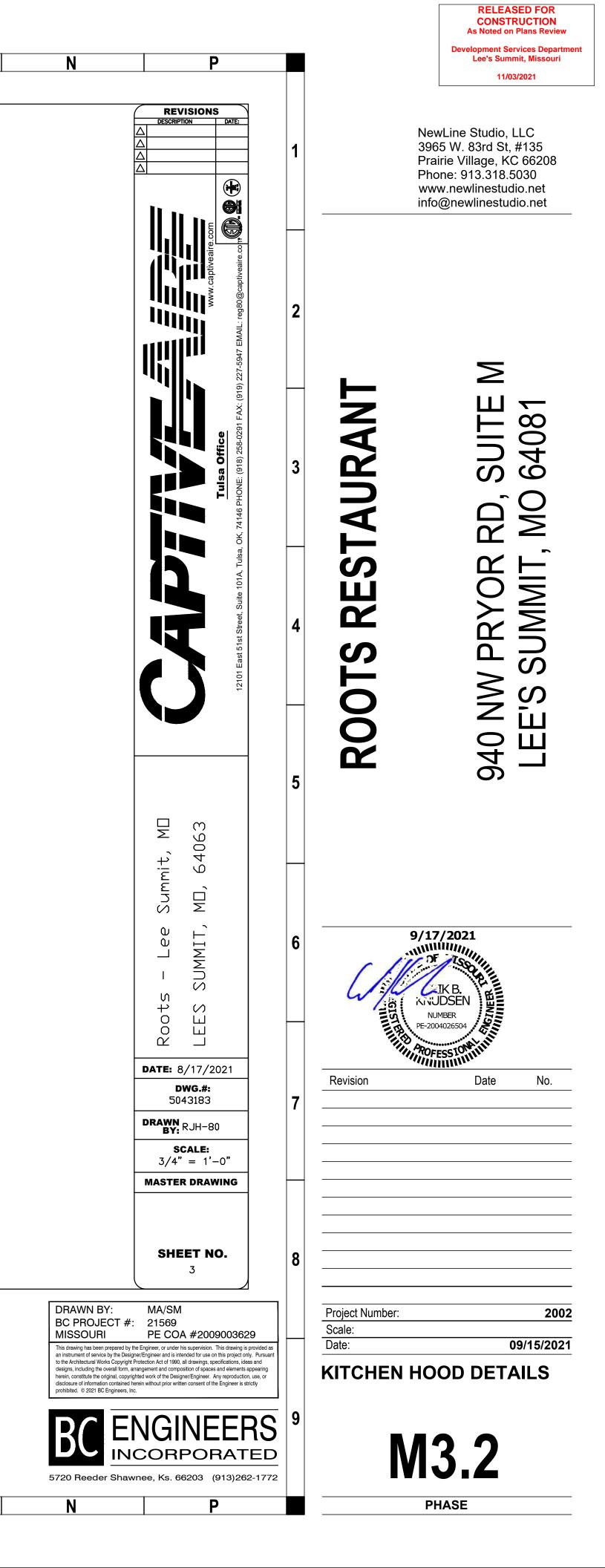


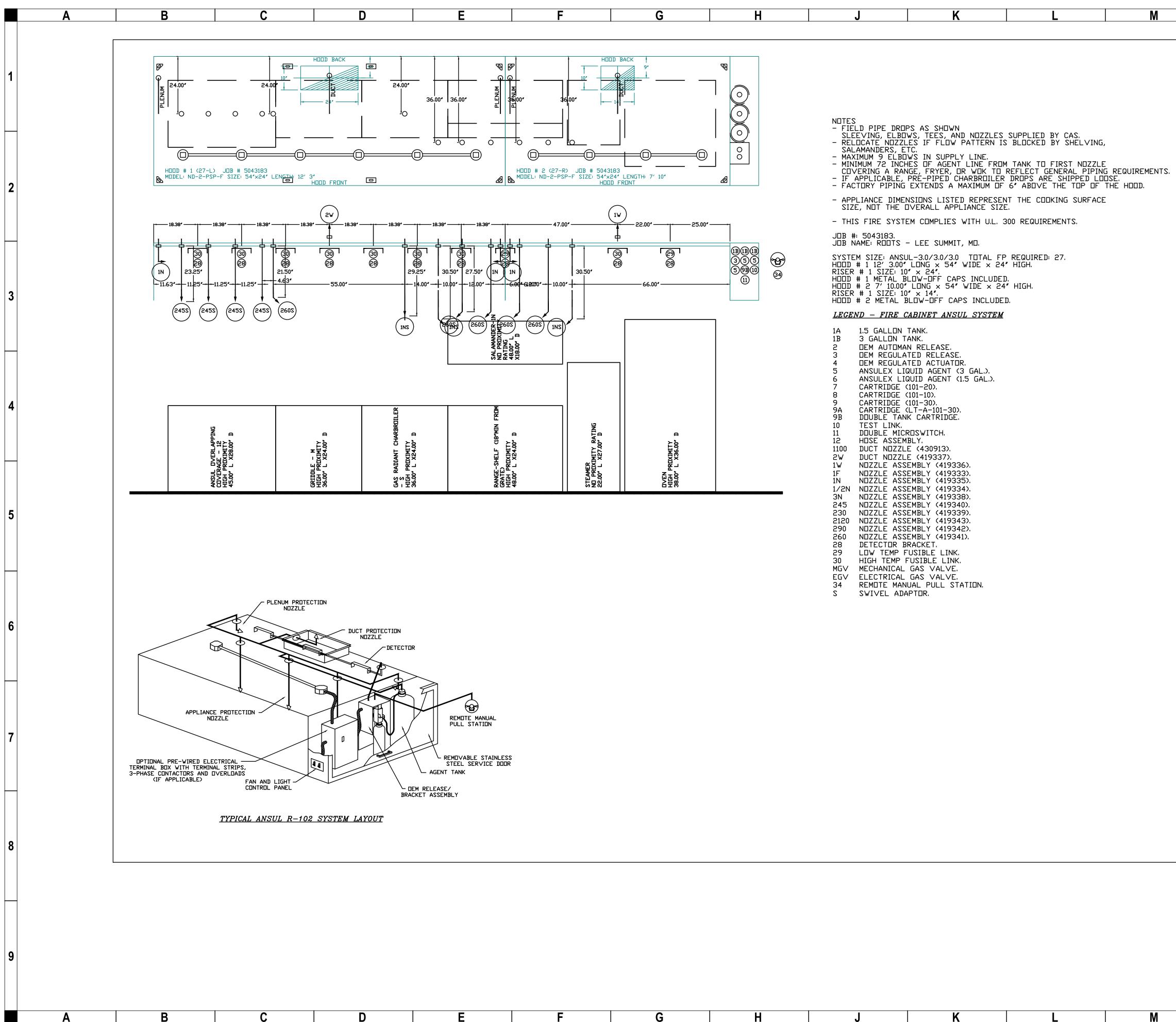


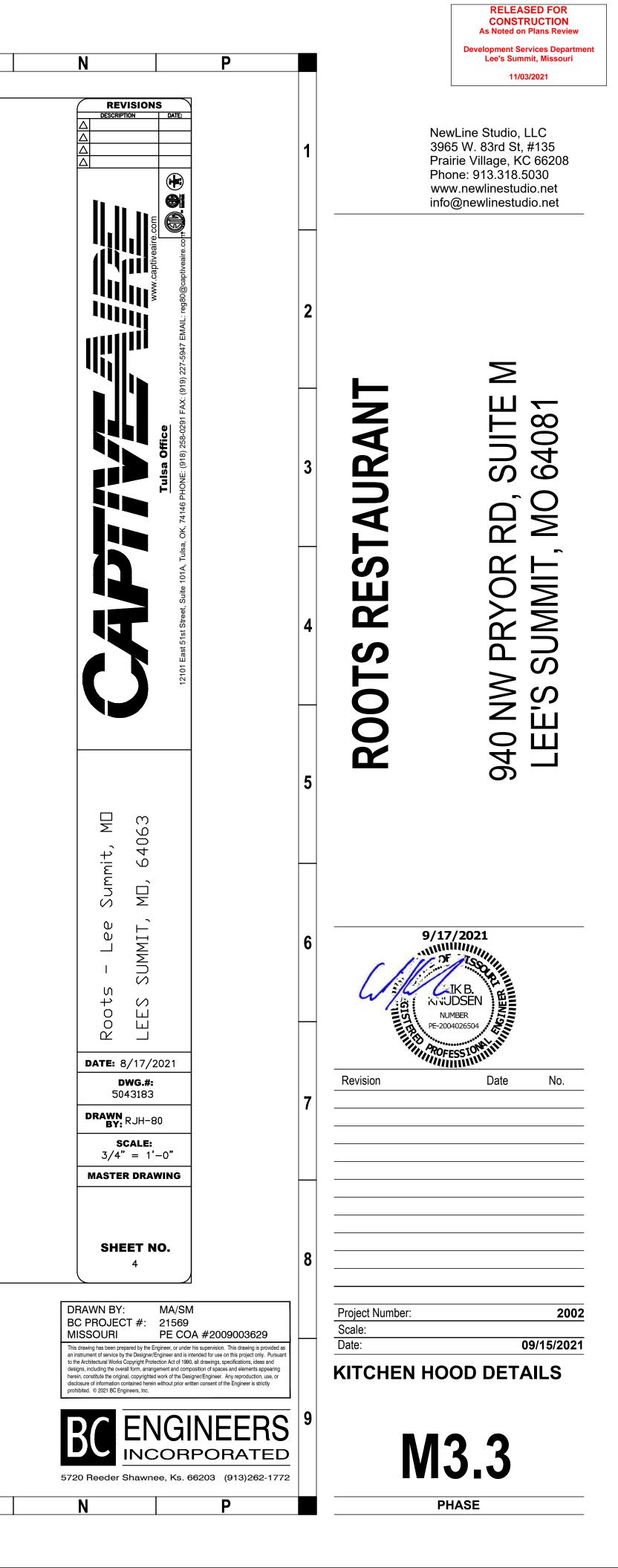
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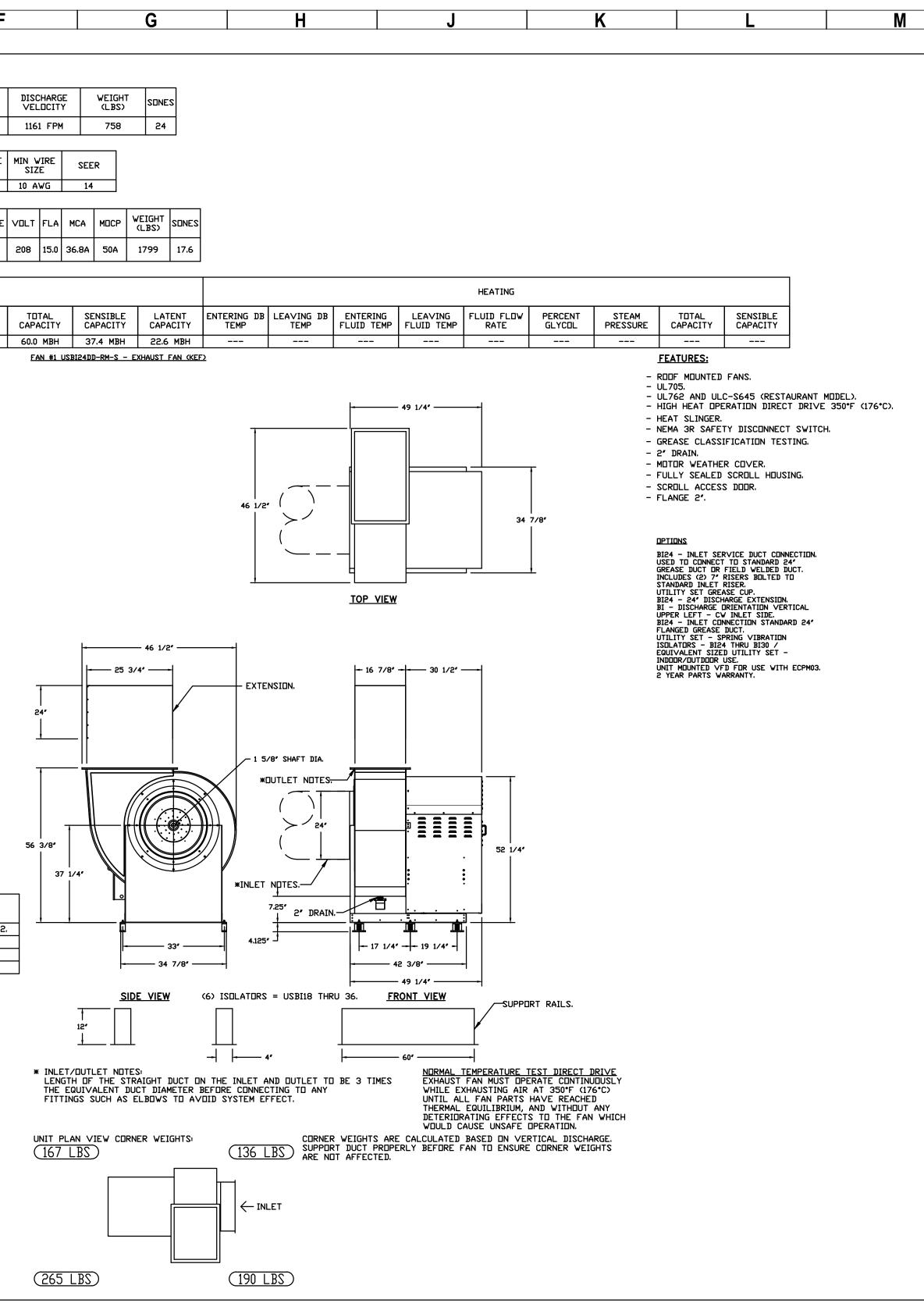
Α	B C D E F G H J K L M
	FIRE SYSTEM INFORMATION - JOB#5043183
	SYSTEM NDTAGTYPESIZEPLIW PDINTS1FS (27)ANSUL R1023.0/3.0/3.027FIRE CABINET RIGHTRIGHT, HOLD 2
	GAS VALVE(S) FIRE SYSTEM SYSTEM TAG ND SUPPLIED BY
	1 FS (27) MECHANICAL 2.000 DISTRIBUTOR
	FIRE FIRE FIRE KEY NUMBER - PART DESCRIPTION ND KEY NUMBER - PART DESCRIPTION
2	0 - 0 - 43-15733 AIR CYLINDER ASSEMBLY - AIR CYLINDER AND TUBING FOR MECHANICAL GAS 0 1 VALVES (ANSUL PART #15733). 0 1 0 - 0 - 439861 LARGE BLOWOFF CAP, METAL, TO FIT NEW LASER-ETCHED ANSUL NOZZLES, A0024201. 17 0
	0 - 0 - CBI-146 CHROME PLATED PIPE NIPPLE 3/8" NPT 60 INCHES LONG. 2 0 0 - 0 - TANK STRAP TANK STRAP - USED FOR ANSUL TANKS. 3 0 0 - 0 - UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS. 3 0
	1 - 1 - AT - 3.0 TANK(#1B) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, DR SS ENCLOSURE (UL/ULC>) MACOLA # 01-429862. 3 3 - 3 - ANS-DEM REGULATED RELEASE - ANSUL REGULATED MECHANICAL RELEASE/BRACKET ASSEMBLY, DEM, R-102, CARTRIDGE DETECTION INCLUDED, ANSUL PART # 79493. 1
	5 - 5 - LIQ-3.0 AGENT - ANSULEX LOW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372. 0 3 9 - 9 - DT-CART DOUBLE TANK NITROGEN CARTRIDGE. 0 1 10 - 10 - TLINK LINK - TEST LINK (1 TEST LINK) ANSUL PART # 24916, MACOLA # 20-24916. 0 1
2	10 10 10 10 11 - 11 - MICRD-SDA MICRDSWITCH KIT- INCLUDES 2 SWITCHES AND MOUNTING HARDWARE. SINGLE 11 - 11 DUAL ELECTRIC SWITCH, DNE STANDARD SWITCH, DNE ALARM DUTY SWITCH ANSUL PART # 437155, 1 0 MACDLA # 08-437155.
5	12 - 12 - HDSE HDSE - RUBBER HDSE. 2 0 13 - 13 - 419337 NDZZLE - 2W NDZZLE, DUCT (REPLACES ANSUL PART# 419348, CAS PART# 1 0 419337) A0001267. 1 0
	1 FS (27) 14 - 14 - 419336 NDZZLE - 1W NDZZLE, DUCT/APPLIANCE (REPLACES ANSUL PART# 419347, CAS PART# 419336) A0001266. 1 0 1 FS (27) 16 - 16 - 419335 NDZZLE - 1N NDZZLE, PLENUM/APPLIANCE (REPLACES ANSUL PART# 419346, CAS PART# 419336) A0001266. 6 0
	CAS PART# 419335> A0001265. 0 20 - 20 - 419340 NDZZLE - 245 NDZZLE, APPLIANCE (REPLACES ANSUL PART# 419351, PART# 4) 4 0 24 - 24 - 419341 NDZZLE - 260 NDZZLE, APPLIANCE (REPLACES ANSUL PART# 419352, CAS 5 0
	PART# 419341) A0001271. 25 - 25 - 418569 NUZZLE ADAPTUR - SWIVEL NUZZLE ADAPTUR (REPLACES CAS PART # 418569) A0001274.
4	26 - 26 - QSA-3/8 QUIK SEAL - 3/8' (UL). 17 0 27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2' HODD SEAL (UL) ANSUL PART # 423253, MACOLA 5 0 # 32-79768. 5 0
	28 - 28 - S-DET DETECTUR - SERIES (SCISSUR LINKAGE) ANSUL PART # 435547/435548 (DLD 10 0 # 417369/434480); MACULA # 05-417369. 10 0 29 - 29 - ANS-360FL FUSIBLE LINK - 360DEG F, R-102 AND PIRANHA, ANSUL PART # 439088. 2 0
	30 - 30 - ANS-500FL FUSIBLE LINK - 500DEG F, R-102 AND PIRANHA, ANSUL PART # 439232. 8 0 34 - 34 - RPS-A REMDTE PULL STATION - RED COMPOSITE (WITHOUT WIRE ROPE) 434618 (OLD 1 0 MACOLA #06-4835). 1 0
	35 - 35 - PE-LT PULLEY ELBOW - LOW TEMP. PULLEY ELBOW, SET SCREW TYPE ANSUL PART 5 0 # 415670, MACOLA # 11-415671. 36 - 36 - PE-HT PULLEY ELBOW - HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART 4 0 # 423251, MACOLA # 10-45771. 4 0
5	38 - 38 - ELB-90 3/8' CHRUME PLATED ELBUW - 90 DEG. 4 0 39 - 39 - ELB-45 3/8' CHRUME PLATED ELBUW - 45 DEG. 4 0
	GAS VALVES AND STRAINERS
	GAS VALVE SIZING GAS VALVE DIMENSIONS INSTALLATION PART NUMBERS TYPE SIZE VOLTAGE MIN. INLET PRESSURE MAX. INLET PRESSURE FLOW AT 1 IN.W.C. DROP NATURAL GAS FLOW AT 1 IN.W.C. DROP PROPANE FLOW AT 1 IN.W.C. DROP PROPANE DIM "G" DIM "G" MOUNTING ORIENTATION GAS VALVE PART NUMBER STRAINER PART NUMBER GAS VALVE/STRAINER KIT
	GAS VALVE FOR FS#1 MECHANICAL 2" N/A 0 PSI 10 PSI 4,616,000 (0 IN.W.C.) (277 IN.W.C.) BTU/HR BTU/HR 0-11/16" 5-7/8" 7-1/4" 7-13-16" 15-1/8" 13-3/16" HORIZONTAL 28-55610 4417K68 MGVA2 ALL GAS VALVES/STRAINERS PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
	STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP ^{0.5} PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF LP = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY) ^{0.5} .
6	DIM "F" MECHANICAL GAS VALVE.
	DIM "A"
7	DIM "B"
8	
9	
Α	B C D E F G H J K L M







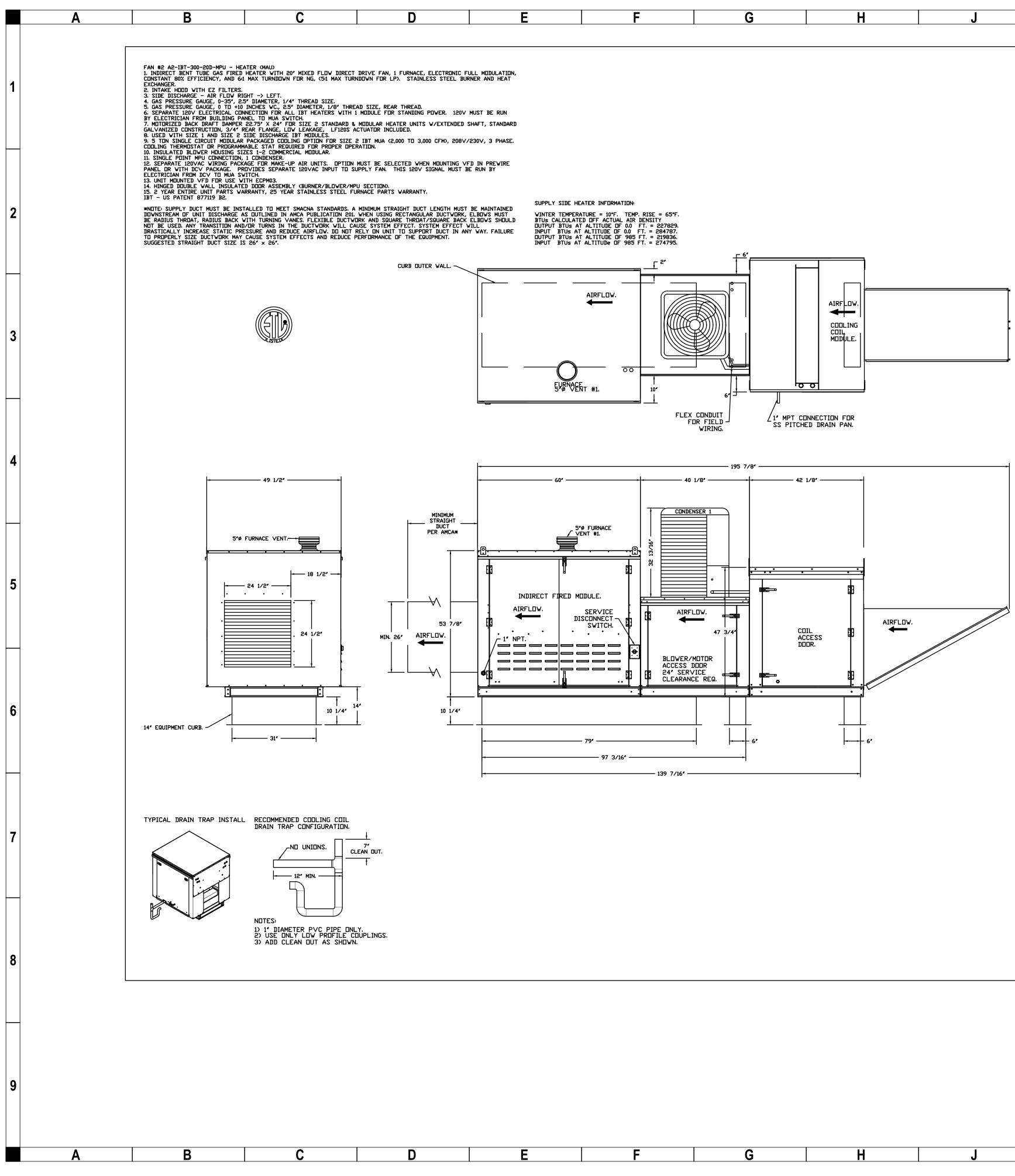
	Α		В			С)				Ε				F
]																		
				FAN II	NFORM	<u>IATION — Jo</u>	<u>) 08#50</u>	<u>43183</u>							-				
		FAN UNIT		QTY	FA	N UNIT MODEL 4	 ŧ	MANUFA	ACTURER	CFM	ES	P RPM			HP	BHP	PHASE	VOLT	FLA
1			KEF	1		USBI24DD-RM		CADTI	VEAIRE	3503	2.5	00 1105			E 000	2.8770	3	208	15.8
						O2BI24DD-KM			VEAIRE	3003	E,J	00 1103	יד, דעם	CEMION	5.000	2.8770	5	200	15.8
		FAN		<u>ER DET</u> 			CONDE											MAX	K FUSE
						MDDEL #	N		TONNAGE			PHASE	FREQUE		MCA		RLA		SIZE
	_	2				00-20D-MPU	14940		5	208-	-230	3 PHASE	60 H	Z i	21.4 AM	PS 17	7.4 AMP	S 30	AMPS
		FAN				<u>N — JOB#50</u>					MIN	DESIGN			м	JTOR			_
			TAG	QTY	FA	N UNIT MODEL 4	ŧ	BLOW		IUSING	CFM	CFM	ESP	RPM	Ē	NCL	HP	BHP	PHASE
		2	MAU	1	A2-	-IBT-300-20D-MF	บ	20MF-2		IBT-300	2000	2882	2.250	1681	DDP,F	PREMIUM	5.000	2.7190	3
		COIL	<u>, </u>	<u>10B#50</u>	43183	}													
2		FAN												COOL	ING				
				CDIL I	DESIGN CFM	ENTERING DB	ENTER		EA∨ING 1		VING ∖	B ENTE		LEAV		בו ווזח	FLOW	PFP	CENT
						TEMP	WB TE	MP	TEMP		TEMP	FLUID		FLUID			TE		ICOL
		2	MAU	DX	2882	93.0*F	76.0*	F	80.2*F		70.5 * F		-		-			-	
	-	GAS FAN				<u>AIR UNIT(S</u>				CAS				_					
			TAG	INPUT BTUs		Js TEMP RISE		PRE	D INPUT ESSURE	GAS	GAS	TYPE EFI	BURNER FICIENCY	(%)					
		2	MAU	274795	5 2198	36 65*F	7	IN. W.C.	- 14 IN	. W.C.	NAT	URAL	80						
		FAN		<u>ONS</u>															
3				QTY					DESCR	IPTION									
		ND				NLET SERVICE I													
						FIELD WELDED		NCLUDES	s (2) 7 *	RISERS	BOLTEI	D TO STAN	DARD IN	LET RI	ISER.				
				1 B.	I24 - 2	4" DISCHARGE E	XTENSI												
		1	KEF			CHARGE DRIENTA NLET CONNECTIE													
				1 U	TILITY	SET - SPRING V SET - INDODR/D	/IBRATI	IN ISOLA					ALENT	SIZED					
						SET - INDUUR/L NTED VFD FOR			103.										
						ARTS WARRANT													
						PRESSURE GAUGE,		0 10" W	C, 1 FURI	NACE.									
4	L) ELECTRICAL C DDULE. IF A N													
				¹ ″N	NS", "MA	, DR 121 DPTI IN PREWIRE.	ON PREV	WIRE MU	ST BE SI	ELECTEI). D	NOT PRE	IVIDE SU	JPPLY	I				
						D BACKDRAFT D	AMPER F	-0R A2-	I HOUSIN	G. MEET	S AMCA	CLASS 14	RATING						
						1 & 2 SIDE DIS						D 0175 0		(0.00)					
		2	MAU	1 TI	000,8 🛛	NGLE CIRCUIT M CFM), 208V/230	IUDULAR IV, 3 P	HASE. CI	JOLING T	HERMOS	TAT DR	PROGRAM	IBI MUA	AT RE	U QUIRED				
						PER OPERATION.	IDN SIZ	E 1-2 C		AL.									
						DINT MPU CONNE													
						E 120∨ WIRING I THREE PHASE ON			RED AND	USED I	JNLY FI	N DCA TH	R PREW	IRE WI	LIH				
						NTED ∨FD FOR INTIRE UNIT PAF				STAIN	ESS S	TEEL FURN	ACE PAR	TS VA	RRANT	<u>r.</u>			
5		FAN	ACCE	SSORIE															
					EXHAUST	r		SUPPL	Y										
		FAN UNIT		GREASE					OTORIZEI		-								
				CUP	DAMPER		RGE DA	MPER	DAMPER										
	-	1	KEF MAU	YES		YES			YES		-								
				SEMBLL	ES		, I		123		_								
				 TAC		WEIGHT		ITEM	1					SIZ	E				
		1	# 1	KEF	.	56 LBS		RAIL		4.000″₩	X 60.00	0″L X 12.0	00"H ALC			IGHT C	omes a	S A SE	T OF 2.
6	5		# 2			116 LBS		RAIL	. (6.000 ″ W	X 31.00	0″L X 14.0	00"H RIG	HT.					
		2	# 2			116 LBS		RAIL CURI				0″L X 14.0 00″L X 14.			/IDTH,	RIGHT	INSULA	TED.	
			I			Į													
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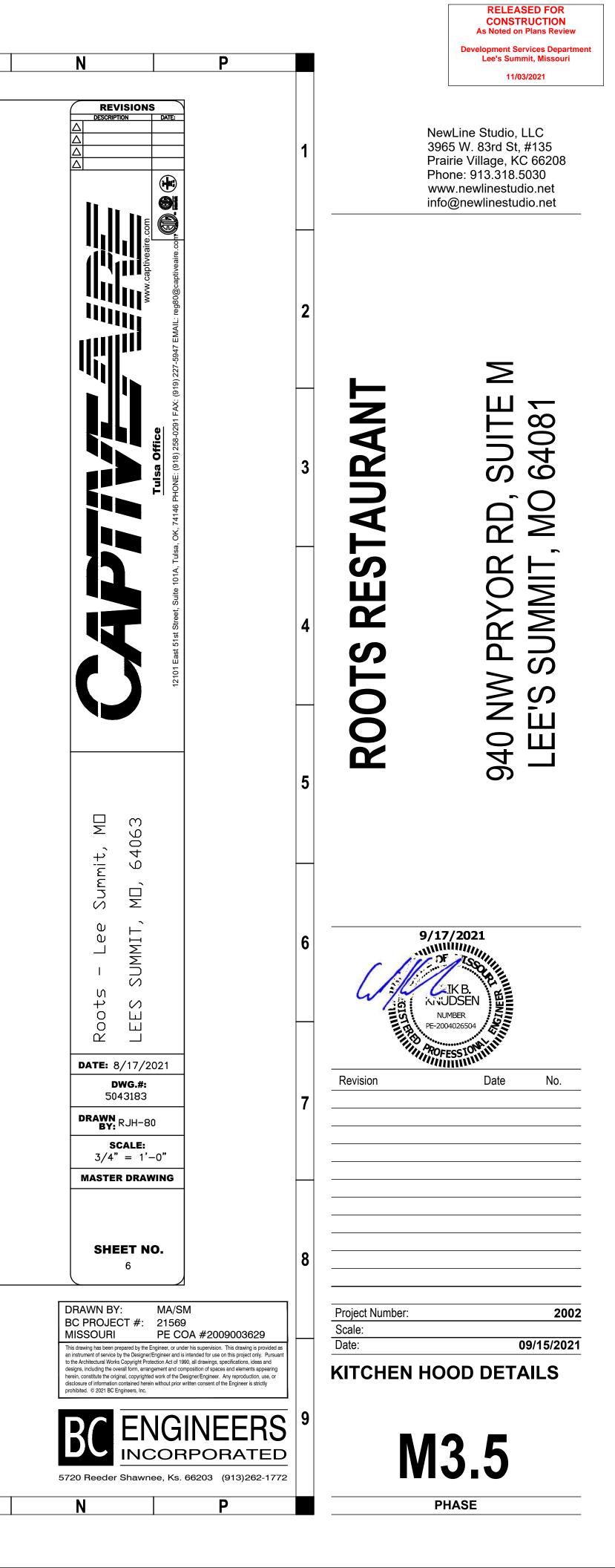
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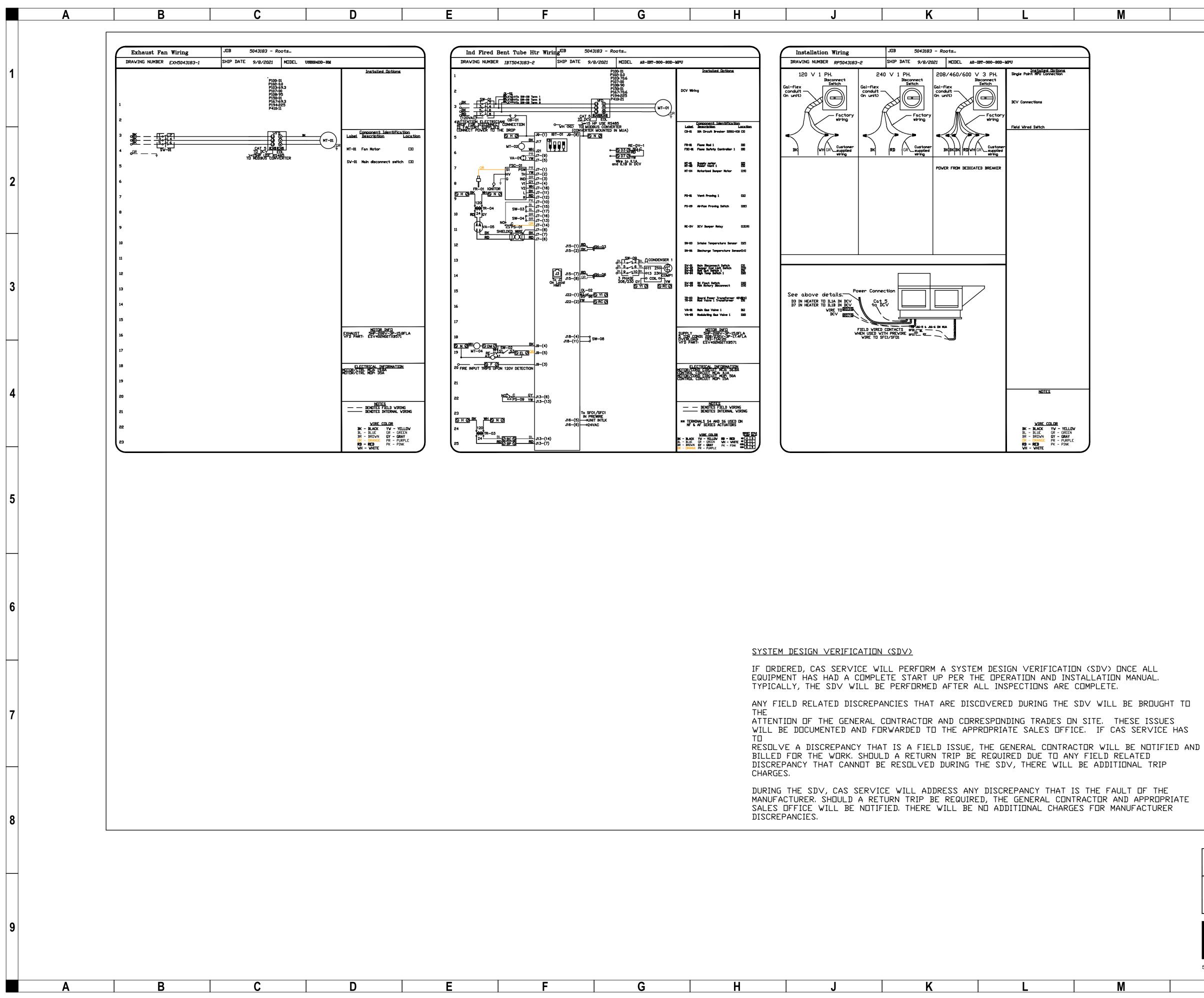




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IF DRDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) DNCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

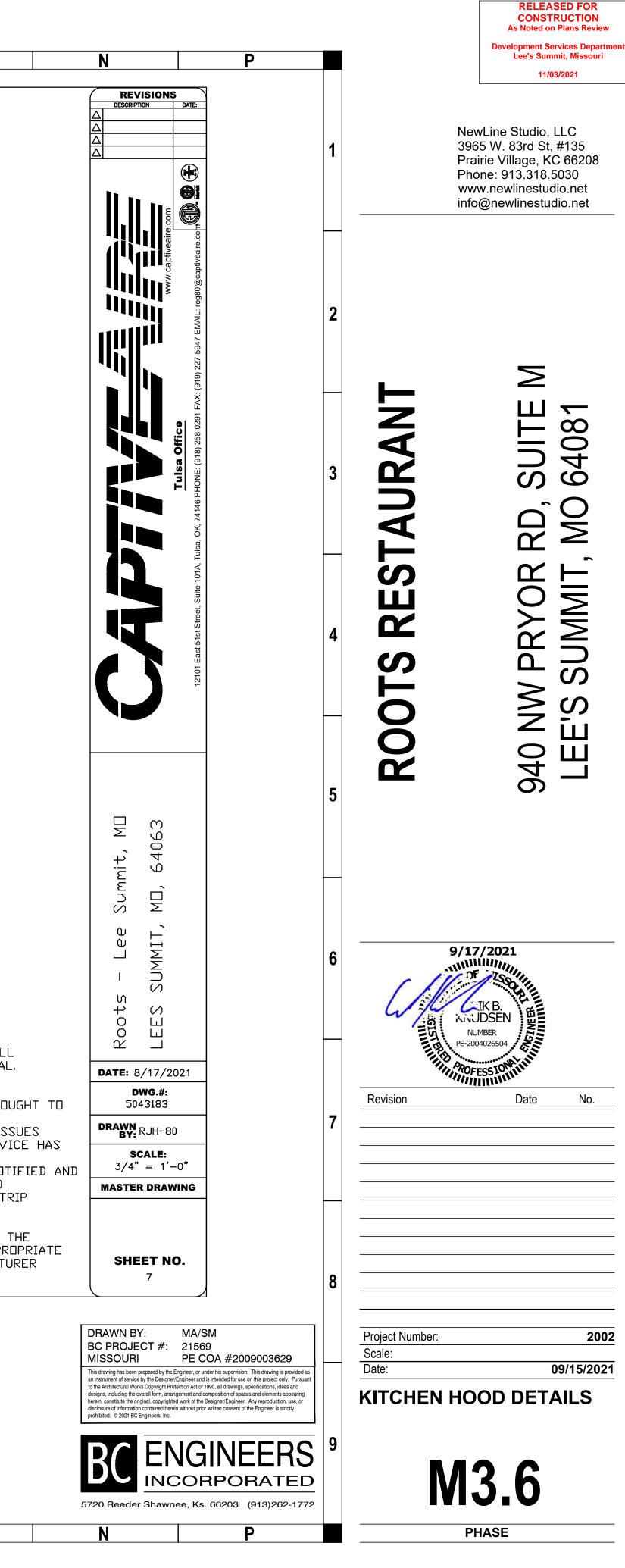
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ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO

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

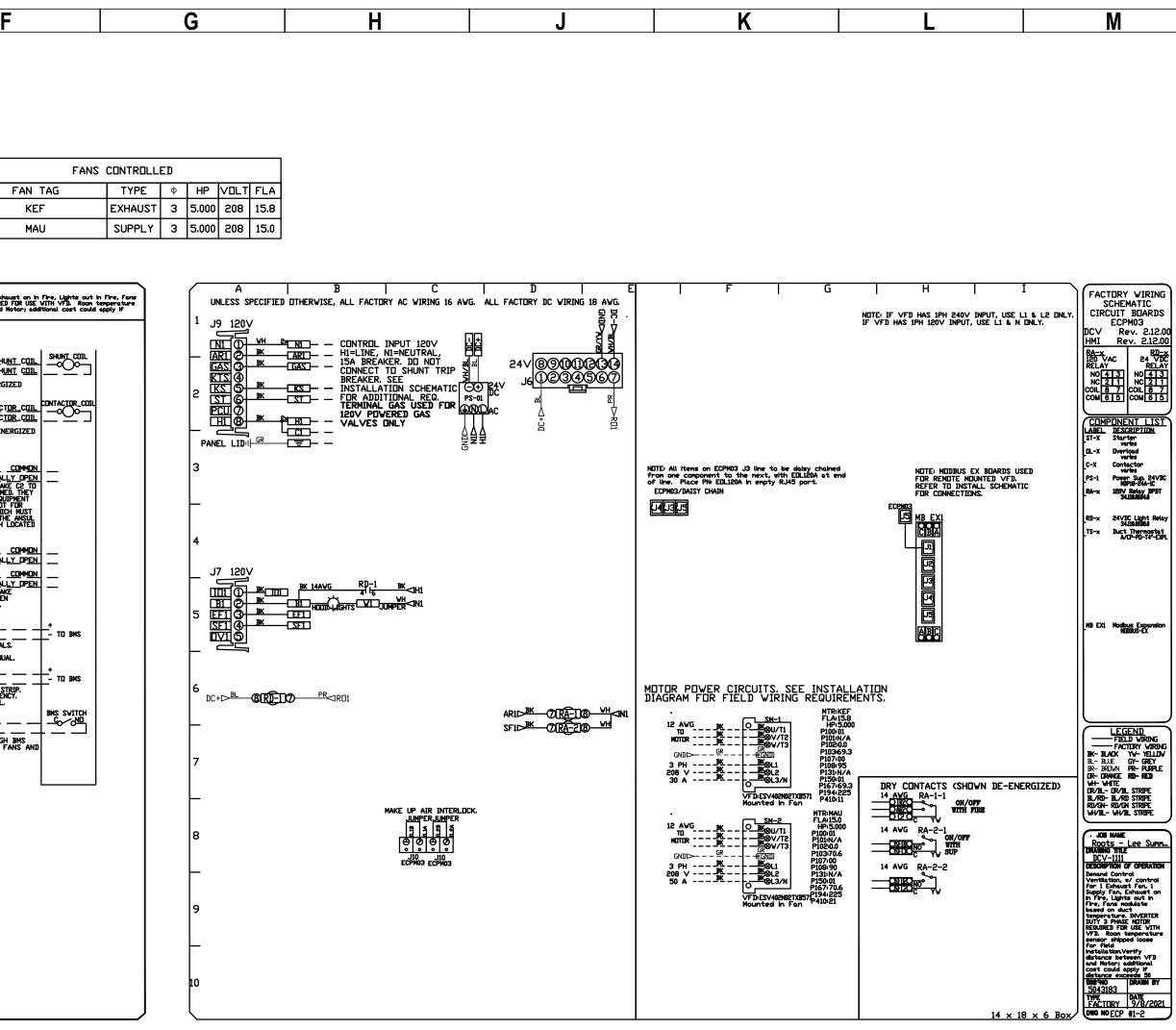
BILLED FOR THE WORK, SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP

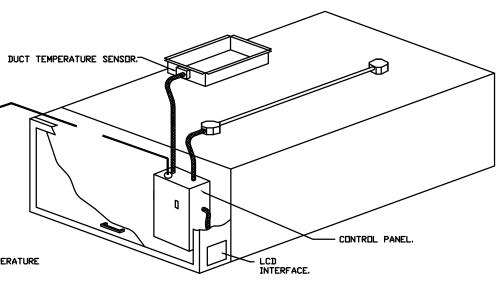
DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED, THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER



	Α	B	C		D	E		F
		ELECTRICAL PACKAGE N□ TAG PACKAGE 1 27 DCV-1111	- JOB#5043183 LOCATION UTILITY CABINET RIGHT	SWITC LOCATION 04 - UTILITY CABINET RIGHT HOOD # 2	HES QUANTITY 1 LIGHT 1 FAN		TION TROLS DC∨	
	2	JOB NO 5043183 1 2 BREAKER PANEL TO PRI Responsibility 3 BREAKER SIZE SHOWN IS BREAKER PANEL	Electrician	Summit, MD MAKE UP AIR DN PCB DAMPER ILLAO PROVING ILLBO INTERLOCK	DRAINN BY SCHEMATI DATE DWG NO 9/8/2021 ECP REMOVE JUMPER LOW VOLTAGE CONNECTION FO DAMPER INTERLOCK, WIRE	ALL Demand Control Vertitat modulate based on duct sensor shipped loose f distance exceeds 50 fe	DF DPERATION: temperature. INVERTION: temperature. INVERTION: field installation.Verify t. DNTROL PANEL SIGNAL FOR NIO EXTERNAL SHUNT TRIP	aust Fan, 1 Supply Fan, Exhau NTY 3 PHASE MUTCR REQUIRED I distance between VFD and Mo <u>— HDT_TO_SHUN</u> <u>NEUTRAL_FRQM_SHUN</u> ST TERMINAL IS ENERGIZ IN FIRE CONDITION.
	3	4 BREAKER 1PH	L TO FANS		UNITE CITO COMMON (3). VIRE CITO COMMON (3). VIRE CITO COMMON (3). VIRE CITO COMMON (3). CITO ARIS MOULT VIEN DAMPE ANDEL TO ACCESSORY SPONSIBILITY ELECTRICIAN VIRE CITO COMMON (3). VIRE CITO COMMON (3).		ONTROL PANEL SECTO	HDT_TD_CONTACTD NEUTRAL_TD_CONTACTD NEUTRAL_TD_CONTACTD KS TERMINAL IS DE-ENEF IN FIRE CONDITION. MIRMALL SPARE CONTACTS VILL MAKE AR2 WHEN SYSTEM IS ARMED DIRACTY VILL MAKE AR2 WHEN SYSTEM IS AN MIRMALL SPARE CONTACTS VILL MAKE MIRMALL SPARE CONTACTS MIRMALL MAKE COMMON TO NORMALLY MIRMALL MAKE COMMON TO NORMALLY MIRMAL MAKE MAKE MAKE MAKE MAKE MAKE MAKE MAKE
2	4	12 BREAKER 3PH 13 BREAKER 3PH 13 CONTROL PAN 14 MAU 15 MAU 16 CONTROL PAN 17 PRIMARY PANEL 18 MB EX1	LINE POWER TO REMOTE SM-2 AN DISCONNECT EL TO FANS Electrician FANS SM-1 CONNECTED TO J3		ALL SWITCHES FACTORY VIRED CAT-5 CONNECTION 		DCV SPEED VII+O- -10V DUTPUTVIVI-O- DN PCB (TIDTAL) VFD ANALOG 30 O- -10V DUTPUT 2 O- IN VFD	VIRE TO COPIOS TERMINALS. VIRE TO COPIOS TERMINALS. SEE ECOMOS DIVIERS MANUAL VIRE TO VED TERMINAL ST VIRE TO VED TERMINAL TO FROM PROPORTIONAL TO FROM SEE VFD DIVIERS MANUAL. SEE VFD DIVIERS MANUAL. SIGNAL SWITCH THROUGH VILL ACTIVATE ZONEL FA LIGHTS
ļ	5	20 21 21 22 22 22 23 24 DEMAND CONTROL VENT CONTROLS SHALL BE LIS	LATION HOD CONT STED BY ETL (UL 508A)	SENSOR CONTROL PANEL[<u>T3AO</u> TO <u>T3BO</u> CAPTURE VOLUME SENSOR <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	VOLUME. VIRE TO CONTROL BOARD. SENSOR MOUNTED IN HOLD CAPTUR MAY OR MAY NOT BE REQUIRED BASED ON JOBSITE SPECIFICATIONS			
6	5 - -	EXHAUST HOOD UTILITY OR PAINTED STEEL.	E SHALL BE NEMA 1 RAT CABINET. THE CONTROL LOCATED IN THE EXHAU SHALL BE PROVIDED TO AL BETWEEN THE AMBIEN REMENTS OF IMC 507.1.1. SHALL PROVIDE ADJUST	TED AND LISTED FOR ENCLOSURE MAY BE ST DUCT RISER(S) SH ACTIVATE THE HOD NT AND DUCT TEMPER ABLE HYSTERESIS SH	CONSTRUCTED OF ST HALL BE CONSTRUCT D EXHAUST FANS DY RATURES SENSORS, T ETTINGS TO PREVEN	AINLESS STEEL ED OF MAMICALLY BASED HIS FUNCTION T CYCLING OF THE		
	7	 A DIGITAL CONTROLLER CYCLING. VARIABLE FREQUENCY D CONTROLLER SHALL MOD DEMAND. THE DUCT TEM CALCULATE THE SPEED THE VFD SPEED RANGE MINIMUM SPEED SET AS AN INTERNAL ALGORITHM PROPORTIONAL TO ALL E THE SYSTEM SHALL OPE SUFFICIENT UPAT DEMAN 	RIVES (VFDS) SHALL BE ULATE THE VFDS BETWE PERATURE SENSOR INPUT REFERENCE SIGNAL. OF OPERATION SHALL BI REQUIRED TO MEET MINI I TO THE DIGITAL CONTR SXHAUST FANS THAT ARE RATE IN PREP MODE DUR	E PROVIDED FOR FAN EN A MINIMUM SETPE T(S) TO THE DIGITAL E FROM 0% TO 100% M MUM VENTILATION RE ROLLER SHALL MODUL E LOCATED IN THE SA RING LIGHT COOKING	IS AS REQUIRED. TH JINT AND A MAXIMUM CONTROLLER SHALL FOR THE SYSTEM, W CQUIREMENTS. .ATE SUPPLY FAN V AME FAN GROUP AS LOAD OR COOL DOW	HE DIGITAL SETPOINT ON BE USED TO ITH THE ACTUAL FD SPEED THE SUPPLY FAN. N MODE WHEN	THE HODD C GIVEN TIME: - <u>AUTOMA</u> THE TEN CONFIGL ZONE CA MOTOR C EQUIPPE WITHIN VARIABI	<u>TIC:</u> THE SYSTEM MPERATURE AT T JRABLE TEMPERA AN BE CONFIGURI (SUCH AS EC MO CO WITH VARIABI A USER-DEFINEI LE SPEED FANS
8	- 	SUFFICIENT HEAT REMAI COMPLETED. OPERATION AN EXHAUST FAN SPEED - A DIGITAL CONTROLLER THE APPLIANCE SHUNT IS DETECTED ON A COV - A DIGITAL CONTROLLER CONTROL SHALL NOT OV - AN LCD INTERFACE SHAI A. ON/OFF PUSH BUTTO B. INTEGRATED GAS VA C. VFD FAULT DISPLAY D. DUCT TEMPERATURE E. MIS-WIRED DUCT TE	DURING EITHER OF THES THAT IS EQUAL TO THE SHALL DISABLE THE SUF RIP, AND DISABLE AN E ERED HOOD. SHALL ALLOW FOR EXTE ERRIDE FAN OPERATION L BE PROVIDED WITH T N FAN & LIGHT SWITCH LVE RESET FOR ELECTR WITH AUDIBLE & VISUA SENSOR FAILURE DETECT	E PERIODS WILL DIS MINIMUM VENTILATI PPLY FAN(S), ACTIVA LECTRIC GAS VALVE CRNAL BMS FAN CONT LOGIC AS REQUIRED THE FOLLOWING FEAT ACTIVATION. CONIC GAS VALVES (AL ALARM NOTIFICAT FION WITH AUDIBLE ECTION WITH AUDIBLE	ABLE THE SUPPLY F ON REQUIREMENT. ATE THE EXHAUST F AUTOMATICALLY WH ROL VIA DRY CONT BY CODE). TURES: NO RESET RELAY RE ION. VISUAL ALARM NO	TANS AND PROVIDE AN(S), ACTIVATE HEN FIRE CONDITION ACT (EXTERNAL EQUIRED).	EXHAUS - MANUAL - SCHEDU DAY. TH SUITABL AT MODU TIME. DU ACTIVA - <u>DTHER</u> HARD-W - <u>FIRE</u> U CONTINU	ATED FOR THE D T AND MAKE UP THE SYSTEM OP LE: A WEEKLY SO ERE ARE THREE LE TO THEIR NED ULATION MODE AI URING UNDCCUPIE TION OF THE SYS THE SYSTEM OPE IRED INTERLOCK IPON ACTIVATION JE TO TO RUN, T
ę	9	F. A SINGLE L⊡W VOL ⁻ G. AN ENERGY SAVINGS			FROM THE VFDS.			TING THE SHUNT ICAL/ELECTRICAL

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TYPICAL HOOD CONTROL PANEL INSTALLATION

<u>ONS:</u> IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY

M DPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A ATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN RED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE DTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS BLE SPEED FANS AND THE ZONE IS DEFINED AS 'DYNAMIC', THESE WILL MODULATE OR RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH AND A FAN ZONE DEFINED AS 'STATIC', FANS WILL RUN AT A SET SPEED DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING AIR FAN SPEEDS PER THE REQUIREMENTS DUTLINED IN IECC 403.2.8.

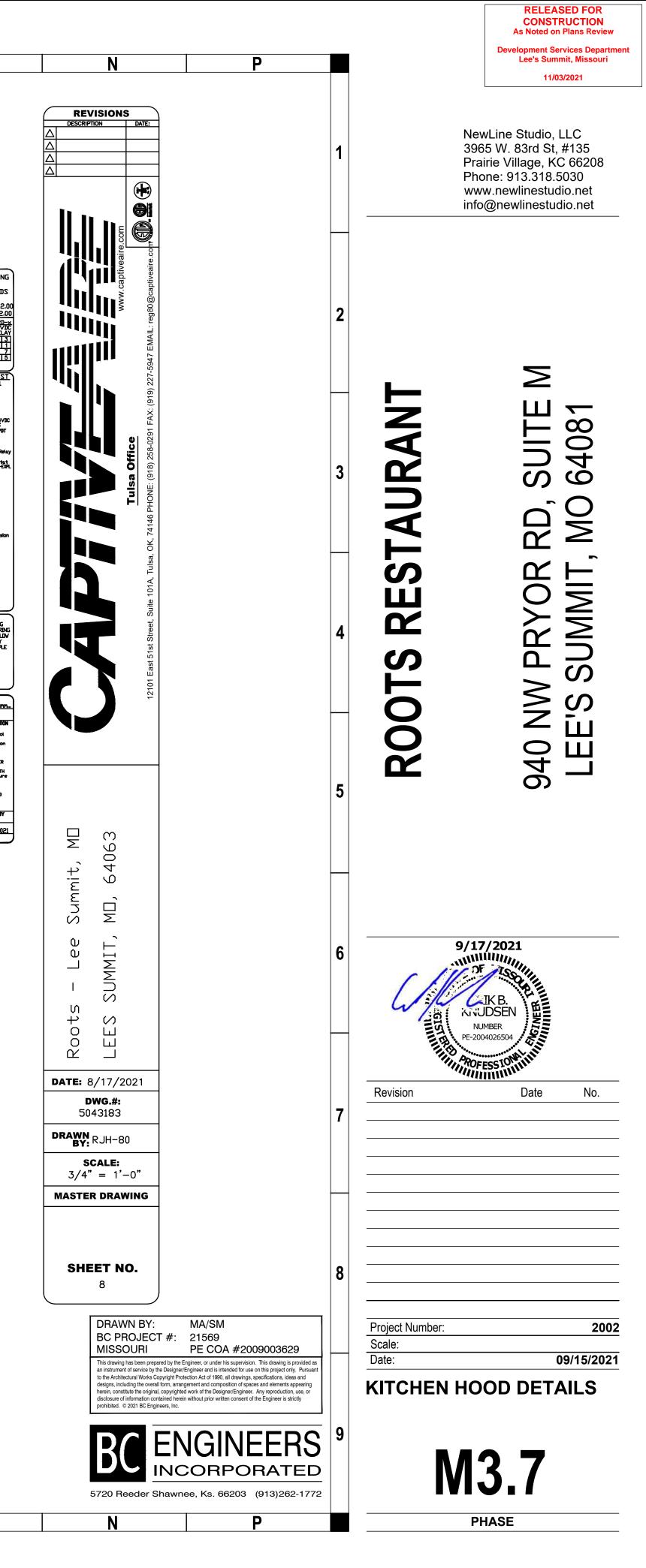
PERATES BASED ON HUMAN INPUT FROM AN HMI.

CHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS EDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS ED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED (STEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.

ERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR

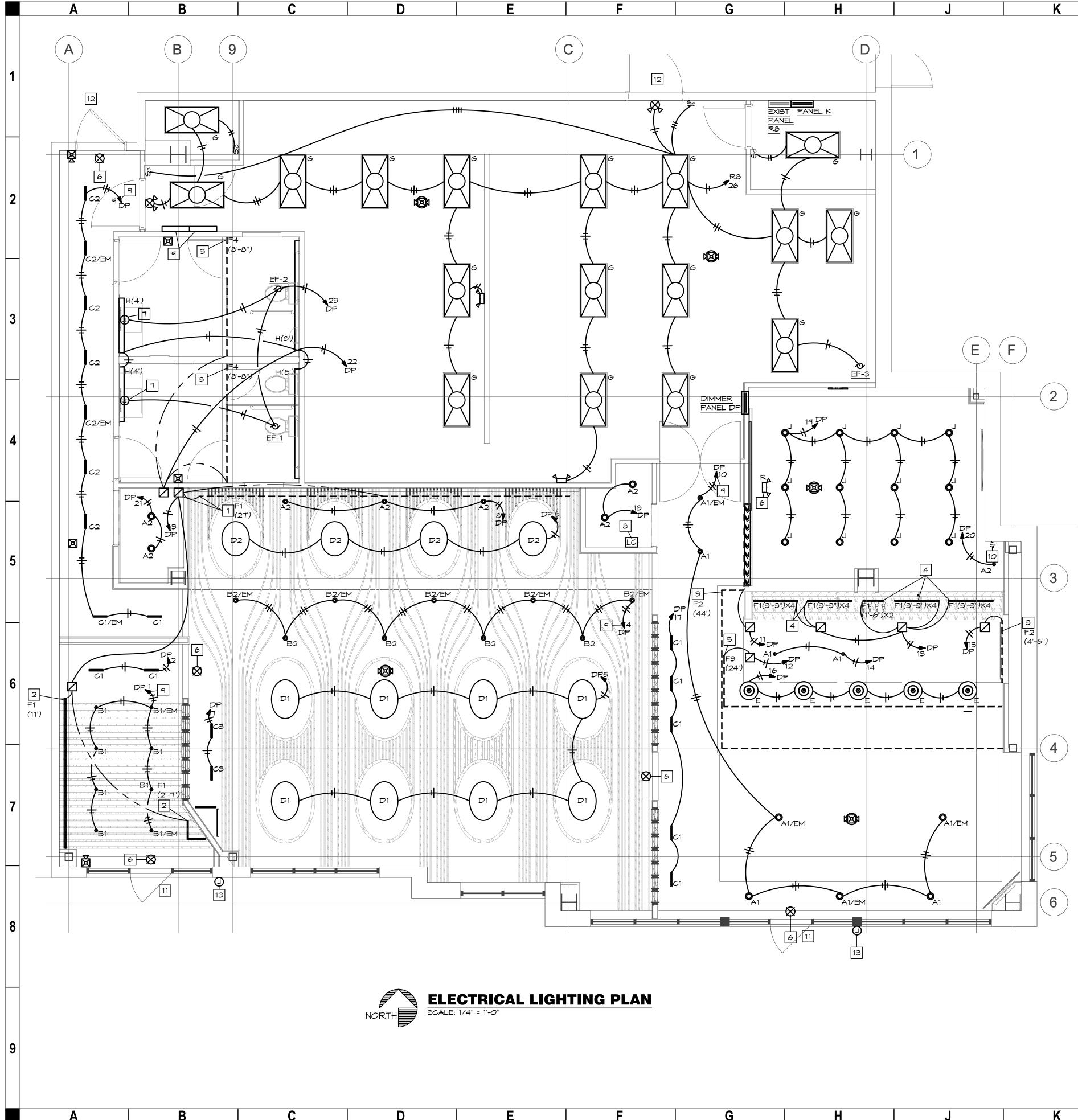
N OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A L GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

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ELECTRICAL SPECIFICATIONS	ELECTRICAL SPECIFICATIONS (CONTINUED)	ELECTRICAL SYMBOLS LIST	ELECTRICAL SYMBO
I. GENERAL PROVISIONS:	10. PANELBOARDS:	<u>CIRCUITING & NOTES</u>	FIRE ALARM - FIRE ALARM SYSTEM IS E ADDITIONAL COMPATIBLE DEVICES AND C
A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, NECESSARY FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS OUTLINED.	A. FURNISH AND INSTALL CIRCUIT BREAKER PANELBOARDS AS SHOWN ON THE DRAWINGS. PANELBOARDS SHALL BE LISTED BY UL AND SO LABELED, AND SHALL BE FULLY RATED FOR THE VOLTAGE AND CURRENT CAPACITY INDICATED ON THE PANEL SCHEDULE. PANELBOARDS SHALL BE EQUAL TO SQUARE D TYPE NQ	+46" SPECIAL MOUNTING HEIGHT FOR ASSOCIATED DEVICE (CENTERLINE OF DEVICE)	REQUIRED.
 B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR APPROVAL AS REQUIRED BY THE AUTHORITIES. C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE 	OR NE WITH BOLT IN TYPE BREAKERS. PANELBOARD LUGS SHALL BE RATED AT 75°C. 1) CIRCUIT BREAKER INTERRUPTING CAPACITIES SHALL MEET OR EXCEED THE AVAILABLE RMS	GFI GROUND FAULT CIRCUIT INTERRUPTER DEVICE	
NATIONAL ELECTRIC CODE (NEC), AND ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.	SYMMETRICAL FAULT CURRENTS INDICATED AND AS REQUIRED TO MEET OR EXCEED THE AVAILABLE FAULT CURRENT FROM LOCAL UTILITY.	MP WEATHERPROOF ENCLOSURE ON DEVICE	
 D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK. E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, CONDUIT, ETC. SHALL BE COVERED, PLUGGED, OR 	B. CIRCUIT BREAKERS SHALL MEET APPLICABLE PORTIONS OF UL STANDARD 489 AND NEMA AB-L. CIRCUIT BREAKERS SHALL BE BOLT-ON, GROUP MOUNTED, AMBIENT MAGNETIC, WITH COMMON TRIP, UL RATED TO CARRY 80% OF NAMEPLATE RATING CONTINUOUSLY IN FREE AIR AT 40° C. CIRCUIT BREAKERS SHALL	MR WEATHERPROOF RESISTANT DEVICE	
CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL ACCEPTANCE.	BE TRIP INDICATING AND FULLY INTERCHANGEABLE WITHOUT DISTURBING ADJACENT UNITS. WIRE TERMINALS SHALL BE RATED 75 DEGREES C. THE OPERATING MECHANISM SHALL BE TRIP-FREE SO THAT CONTACTS CANNOT BE HELD CLOSED AGAINST ANY ABNORMAL OVERCURRENT OR SHORT CIRCUIT CONDITION.	IG ISOLATED GROUND DEVICE	E CEILING MOUNT HEAT DETECT F FIRE ALARM PULL STATION,
F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY	a) BREAKERS SHALL MEET APPLICABLE NEMA AND/OR UL SPECIFICATIONS.	EM EMERGENCY BATTERY BACKUP	
WILL BE MAINTAINED. G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF	C. PANELBOARD BOXES SHALL BE GALVANIZED SHEET STEEL WITH AMPLE WIRING GUTTER SPACE IN ACCORDANCE WITH NEC. FRONTS SHALL BE OF SHEET STEEL PAINTED LIGHT GREY OVER A SUITABLE RUST INHIBITOR PRIMER. PANELBOARDS SHALL BE EQUIPPED WITH ONE PIECE DOOR, CYLINDER	TR TAMPER RESISTANT OUTLET	6'-8" AFF
ONE YEAR FROM FINAL ACCEPTANCE. H. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE NECESSARY FOR CONCEALED ELECTRIAL	TUMBLER TYPE LOCK, DIRECTORY CARD-HOLDER AND QUARTER-TURN ADJUSTABLE TRIM CLAMPS. D. PANELBOARD INTERIORS SHALL CONSIST OF REINFORCED GALVANIZED SHEET STEEL FRAMES WITH ALUMINUM BUS BARS AND CIRCUIT BREAKERS, PROPERLY SUPPORTED TO PREVENT VIBRATIONS AND BREAKAGE IN	USB COOPER #TR7756-X OR EQUAL DUPLEX RECEPTACLE WITH DUAL USB CHARGING PORTS. PROVIDE 2-1/8" DEEP BACK BOX.	FIRE ALARM HORN/STROBE MOUNTED
COMPONENTS. I. CONTRACTOR SHALL PROMPTLY CALL ENGINEERS ATTENTION TO ANY APPARENT CONTRADICTIONS, MULTICE ERECTOR SHALL PROMPTLY CALL ENGINEERS ATTENTION TO ANY APPARENT CONTRADICTIONS,	HANDLING. BUS BARS SHALL BE SEQUENCE PHASED. PANELBOARD SHALL HAVE A FULL SIZED SOLID ALUMINUM NEUTRAL AND GROUND BUS.	(TIE) PARTIAL HOMERUN. REFER TO PLANS FOR ADDITIONAL DEVICES CONNECTED TO THIS CIRCUIT.	FIRE ALARM VISUAL STROBI
AMBIGUITIES, ERRORS, DISCREPANCIES, OR OMISSIONS IN THE PLANS OR SPECIFICATIONS. 2. OPERATION AND MAINTENANCE MANUALS:	E. BUS BAR BRACING SHALL BE UL LISTED AS INDICATED ON DRAWINGS. ADDITIONAL BRACING SHALL BE PROVIDED AS REQUIRED TO MEET OR EXCEED INDICATED AVAILABLE FAULT CURRENTS.	X ELECTRICAL FLOOR PLAN NOTE WITH DESIGNATION	FIRE ALARM VISUAL STROB
A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.	F. DIRECTORY CARDS SHALL BE COMPLETELY FILLED IN BY TYPEWRITER, LISTING CIRCUIT NUMBERS AND LOAD SERVED, INCLUDING EXISTING CIRCUITS. CIRCUIT BREAKERS SHALL BE IDENTIFIED BY CIRCUIT	2 LP CONDUIT CONCEALED WHERE POSSIBLE OR AS NOTED, ARROWS INDICATE HOME RUN TO PANEL. CIRCUIT NUMBERS INDICATED	
B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS.	NUMBER LABELS AS HEREINBEFORE SPECIFIED. 11. DISCONNECTS:	#12 WIRE IN CONDUIT, UNLESS NOTED OTHERWISE ON DRAWINGS OR	
C. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE COLLATED AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER, CONTRACTORS, ETC.	A. DISCONNECTS SHALL BE EXTERNALLY OPERATED, QUICK-MAKE, QUICK-BREAK, SAFETY, WITH PROVISIONS FOR PAD LOCKING. FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL BE PROVIDED AS INDICATED.	GROUNDING CONDUCTOR, #12 WIRE UNLESS NOTED OTHERWISE ON	
CONTRACTORS, ETC. DOCUMENTS SHALL BE COMPILED AND BOUND IN DIGITAL FILE OR 3 RING BINDER. 3. MANUFACTURERS:	B. INDOOR SWITCHES SHALL BE NEMA I AND OUTDOOR SWITCHES SHALL BE NEMA 3R, UNLESS INDICATED OTHERWISE.	DRAWINGS OR SPECIFICATION CONDUIT ROUTED UNDER FLOOR/GRADE	R RELAY
A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL	12. FUSES: A. FUSES PROTECTING CIRCUIT BREAKER PANELS SHALL BE CURRENT LIMITING U.L. CLASS RK-1 FUSES		
BE ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.	WITH 200,000 AMPERES RMS SYM INTERRUPTING CAPACITY. FUSING ELEMENTS SHALL BE SILVER FOR RATINGS ABOVE 60 AMPERES.		
4. TESTING, AND BALANCING: A. ALL CIRCUITS SHALL BE TESTED FOR CONTINUITY, SHORTS, AND GROUNDS BEFORE CONNECTING TO THE	B. ALL OTHER FUSES SHALL BE U.L. CLASS RK-5, DUAL-ELEMENT WITH A MINIMUM TIME-DELAY OF 10 SECONDS AT 500% RATING. FUSES SHALL HAVE CURRENT-LIMITING SHORT-CIRCUIT LINKS AND 200,000 AMPERES RMS SYM INTERRUPTING CAPACITY. FUSING ELEMENTS SHALL BE COPPER.	EXIT LIGHT WITH DIRECTIONAL ARROWS INDICATED	
B. POWER AND LIGHTING PANELS SHALL BE PROPERLY PHASED TO DISTRIBUTE THE LOAD AND SHALL BE	13. LIGHT FIXTURES: A. WHERE LIGHT FIXTURES ARE MOUNTED IN A LAY-IN CEILING, PROVIDE A MINIMUM OF 2 SUPPORT WIRES		ELECTRICAL GENERAL NOTE
CONNECTED AND ADJUSTED TO OPERATE AS SPECIFIED. C. ALL MOTORS AND SIMILAR EQUIPMENT SHALL BE CHECKED FOR PROPER PHASE ROTATION AND OPERATION.	ATTACHED DIRECTLY BETWEEN EACH LIGHT FIXTURE AND THE BUILDING STRUCTURE. SUPPORT WIRES SHALL BE A MINIMUM OF 12 GAUGE GALVANIZED STEEL WIRE, SOFT ANNEALED.	RECESSED OR SURFACE MOUNTED FIXTURE WITH TYPE DESIGNATION	1. COORDINATE ALL WORK REQUIRED TO PROPERL
5. RACEWAYS: A. CONDUIT INSIDE THE BUILDING SHALL BE METALLIC TUBING (EMT), BEARING THE UL LABEL, WITH	B. FIXTURES ARE REQUIRED AT ALL LIGHTING OUTLETS SHOWN ON THE DRAWINGS. APPROVED LIGHTING FIXTURE WIRE IS REQUIRED IN ALL FIXTURES AND FIXTURE RACEWAYS. WEATHERPROOF WIRING IS REQUIRED FOR EXTERIOR FIXTURES. ALL PARTS OF FIXTURES AND WIRING SHALL BE IN ACCORDANCE	NIGHT LIGHT, CONNECT TO UNSWITCHED CIRCUIT	2. IT IS THE ELECTRICAL CO
COMPRESSION TYPE FITTINGS OR SCREW SET FITTINGS. B. CONDUIT EXPOSED TO THE WEATHER, INSTALLED UNDERGROUND, IN CONCRETE, OR USED FOR SERVICE	WITH NEC REQUIREMENTS. C. ALL FIXTURES SHALL CARRY UL AND ETL LABELS.	$A \bigcup CEILING OR RECESSED FIXTURE WITH TYPE DESIGNATION$	ALL BRANCH CIRCUITS E CIRCUITING INDICATED.
C. UNDERGROUND CONDUIT MAY BE POLYVINYL CHLORIDE WITH A DEFLECTION TEMPERATURE, UNDER LOAD	14. SLEEVES: A. PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK.	A OH WALL MOUNTED FIXTURE WITH TYPE DESIGNATION	3. ALL EXPOSED RACEWA
AT 264 PSI, OF 78 DEGREES C, AND A TENSILE STRENGTH OF 5,200 PSI. JOINTS SHALL BE FLUSH SOLVENT WELDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. CONDUIT SHALL BE EQUAL TO CARLON POMER AND COMMUNICATIONS DUCT TYPE DB (DIRECT BURIAL). CONDUIT AND FITTINGS	 A. PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. B. INTERIOR PARTITIONS: 16 GAGE GALVANIZED STEEL, PACK BETWEEN CONDUIT AND SLEEVE WITH FIRE SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT. 	POWER DEVICES	PERMITTED IN EXPOSED 4. ELECTRICAL CONTRACT
SHALL BE PRODUCED BY THE SAME MANUFACTURER. D. FLEXIBLE METAL CONDUIT SHALL ONLY BE USED FOR CONNECTIONS TO MOTORS, TRANSFORMERS, AND LIGHT FIXTURES. MAXIMUM LENGTH SHALL BE 6'-0".	 C. ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WEATHERPROOF SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY. 	DUPLEX RECEPTACLE, BOTTOM OF BOX AT 16" AFF, UNLESS NOTED OTHERWISE	EQUIPMENT, FIXTURES, S NOT JUST ABANDON.
D. CONDUCTORS:	15. GROUNDING:	Image: Contract visit Image: Contrel visit	5. ELECTRICAL CONTRACT
A. WIRES SHALL BE CONTINUOUS WITHOUT SPLICES OR TAPS IN CONDUIT RUNS. ALL SPLICES SHALL BE MADE IN JUNCTION, PULL, OR OUTLET BOXES. ALL WIRE SHALL BE INSTALLED IN CONDUIT, WIREWAYS, OR OTHER PROTECTIVE COVER SANCTIONED BY CODES.	A. GROUND ALL ELECTRICAL APPARATUS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) 250, AND ANY LOCAL REQUIREMENTS. INSURE CONTINUOUS BOND WHERE FLEXIBLE CONDUIT IS USED. PROVIDE BONDING JUMPER INSIDE ALL FLEXIBLE CONDUIT.	DEVICE MOUNTED ABOVE COUNTER AND/OR SPLASH GUARD	REQUIREMENTS FOR HV CONTRACTOR PRIOR TO BY ELECTRICAL CONTRA
B. CONDUCTORS FOR LIGHTING AND POWER SHALL BE COPPER, MINIMUM NO. 12 A.W.G., 600 VOLT.	B. BOND METAL PIPING SYSTEMS IN COMPLIANCE WITH NEC 250.4(A)(4).	 HEAVY DUTY OUTLET - NEMA CONFIGURATION SIZE PER EQUIPMENT MANUFACTURER'S RECOMMENDATION 	SCHEDULES.
C. NO. 10 GAUGE AND SMALLER CONDUCTORS SHALL BE TYPE THWN (WET LOCATIONS) OR THHN (DRY LOCATIONS), SOLID CONDUCTOR, UNLESS OTHERWISE INDICATED.	16. REMODELING WORK: A. DEMOLITION: DISCONNECT, DEMOLISH AND REMOVE ABANDONED ELECTRICAL MATERIALS AND EQUIPMENT NOTICE TO THE DEMOLISH AND REMOVE ABANDONED ELECTRICAL MATERIALS AND EQUIPMENT	PANEL BOARD, TOP OF BOX 6'-0" AFF	6. REFER TO ARCHITECTUR AND DEVICES.
 D. NO. & GAUGE AND LARGER CONDUCTORS SHALL BE TYPE THWN (WET LOCATIONS) OR THHN (DRY LOCATIONS), STRANDED, UNLESS OTHERWISE INDICATED. E. SERVICE ENTRANCE AND PANEL FEEDER CONDUCTORS, NO. 3 GAUGE AND LARGER SHALL BE TYPE 	INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR REMAIN. B. EQUIPMENT TO BE SALVAGED:	O JUNCTION BOX	7. ALL ELECTRICAL DEVIC OTHERWISE OR CONFLIC
E. SERVICE ENTRANCE AND FAREL FEEDER CONDUCTORS, NO. 5 GAUGE AND LARGER SHALL BE TIFE XHHW-2 (WET LOCATIONS) OR THHN (DRY LOCATIONS), STRANDED COPPER, UNLESS OTHERWISE INDICATED. 7. MC CABLE:	 DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE REMOVED AND SALVAGED. DELIVER EQUIPMENT TO THE LOCATION DESIGNATED BY THE OWNER FOR STORAGE. 	NON-FUSED DISCONNECT SWITCH	OPERATION OF ALL EXIS
A. MC CABLE SHALL CONSIST OF INTERLOCK ARMORED CABLE MADE OF THREE OR FOUR TYPE THHN SOLID (#8 AWG AND LARGER MAY BE STRANDED) COPPER CONDUCTORS RATED 90°C	2) ALL MATERIALS AND EQUIPMENT DESIGNATED TO BE REUSED OR RELOCATED SHALL BE CAREFULLY REMOVED, AND STORED UNTIL NEEDED FOR REMODELING WORK. ALL ITEMS SHALL BE RESTORED TO	FUSED DISCONNECT SWITCH	8. ALL MATERIALS EXPOSE SHALL HAVE A FLAME S
FOR DRY LOCATIONS, WITH NYLON OR EQUIVALENT UL LISTED JACKET, PER UL STANDARD 83 THE THREE CONDUCTORS SHALL BE TWISTED TOGETHER WITH THE COPPER GROUNDING CONDUCTOR, SUITABLE FILLERS, AND WRAPPED IN BINDER TAPE. THE ASSEMBLY SHALL BE	"LIKE NEW" CONDITION WITH RUST OR CORROSION REMOVED, SURFACE PAINT TOUCHED UP OR REPAINTED AS REQUIRED TO MATCH NEW CONSTRUCTION, AND THOROUGHLY CLEANED AND INSPECTED. ANY ITEMS WHICH BECOME DAMAGED BEYOND REPAIR AS A RESULT OF CONSTRUCTION OR DEMOLITION	MAGNETIC STARTER	SMOKE-DEVELOPED INI ACCORDANCE WITH AST
ARMORED WITH SPIRALLY WRAPPED INTERLOCKED ARMOR OF ALUMINUM OR GALVANIZED STEEL.	ACTIVITY SHALL BE REPLACED WITH NEW MATERIAL EQUIVALENT IN EVERY RESPECT. C. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND	MOTOR WITH DESIGNATION	9. EACH BRANCH CIRCUIT S
B. CABLES SHALL BE TESTED IN ACCORDANCE WITH UL STANDARD 1569 FOR TYPE MC CABLE AND RATED AT 600 VOLTS, 90 DEG. C FOR DRY LOCATIONS AND 75 DEG. C FOR WET LOCATIONS.	EQUIPMENT NOT INDICATED TO BE SALVAGED. D. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE	• FLOOR BOX	10. FIRE ALARM SYSTEM IS CONTRACTOR IS RESPO
 MIRING DEVICES: A. WALL SWITCHES SHALL BE SPECIFICATION GRADE, QUIET TYPE, FLUSH TOGGLE SWITCH, RATED FOR 20 AMPS. WITH THERMOPLASTIC COVER PLATES. 	BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER REMODELING OPERATIONS ARE COMPLETE.	<u>CONTROLS</u>	SUBMITTAL TO FIRE MAR MARSHAL. IT IS THE CO DEVICES, POWER SUPPL
 SINGLE POLE: HUBBELL #CS1221-X, OR EQUAL. THREE WAY: HUBBELL #CS1223-X, OR EQUAL. 	E. PROVIDE ALL ALTERATIONS AND REWORK INDICATED AND/OR REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF ALL EXISTING ELECTRICAL SYSTEMS, INTEGRATING THE NEW AND EXISTING AREAS. LOCATE, IDENTIFY, AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND CONTRACT AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND CONTRACT AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND CONTRACT AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND CONTRACT AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND CONTRACT AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND CONTRACT AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND CONTRACT AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND CONTRACT AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND CONTRACT AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND CONTRACT AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND CONTRACT AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND AND AND ADDRESS	5 SINGLE POLE WALL SWITCH, TOP OF BOX AT 48" AFF	11. ALL BRANCH CIRCUITS S
 3) AS SPECIFIED ON PLANS B. RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX, GROUNDING, THREE-WIRE TYPE, RATED 	SERVING OTHER AREAS OUTSIDE THE REMODELING LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE REMODELING LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS.	SP SINGLE POLE WALL SWITCH WITH PILOT LIGHT, TOP OF BOX AT 48"	VOLTAGE DROP. ALL F 2% VOLTAGE DROP. EL
FOR 20 AMPS, WITH THERMOPLASTIC COVER PLATES. HUBBELL #CR5352-X, OR EQUAL. C. GROUND FAULT INTERRUPTER RECEPTACLES (GFI) SHALL BE HUBBELL #GF20-XL. DEVICE COVER	 ABANDONED CONDUIT SHALL HAVE WIRE REMOVED AND SHALL BE CAPPED. ABANDONED OUTLETS IN WALLS OR PARTITIONS SHALL HAVE DEVICES AND WIRE REMOVED, AND SHALL BE COVERED. 	52 TWO POLE WALL SWITCH, TOP OF BOX AT 48" AFF	INDICATED IS SUFFICIENT OFF ACTUAL INSTALLED
PLATES SHALL BE AS HEREINBEFORE SPECIFIED. D. ISOLATED GROUND RECEPTACLES (IG) SHALL BE HUBBELL #CR5352IG, ORANGE COLOR. DEVICE	2) WHERE EXISTING CONDUITS TERMINATE AT AN EXISTING OUTLET IN A WALL, CEILING, OR FLOOR TO BE REMOVED, DISCONNECT AND REMOVE DEVICE AND WIRE FROM CONDUIT. CONDUIT SHALL BE	S3 THREE-WAY WALL SWITCH, TOP OF BOX AT 48" AFF	12. PROVIDE LOW VOLTAGE CONTROLLED BY 0-10V
COVER PLATES SHALL BE AS HEREINBEFORE SPECIFIED. E. RECEPTACLES OUTSIDE BUILDING AND WHERE NOTED AS WEATHERPROOF, SHALL BE LISTED 'WEATHER- RESISTANT' HUBBEL #GFTR20-X OR EQUAL AND SHALL BE INSTALLED IN A WEATHERPROOF ENGLOSURE	CUT BACK AND CAPPED (BELOW THE FLOOR OR ABOVE THE CEILING) SO NOT TO CREATE AN OBSTRUCTION. PATCH FLOOR TO MATCH EXISTING.		INDICATED ON PLANS O
NESISTAILT HUBBEL #GFTR20-X OK EQUAL AND SHALL BE INSTALLED IN A MEATHERFROOF ENCLOSURE WHICH SHALL BE INTERMATIC #WP1010MXD OR #WP1010HMXD DIECAST METAL WEATHERPROOF RECEPTACLE COVER. COVER SHALL BE WEATHER PROOF RATED WHILE IN USE.	3) WHERE EXISTING CIRCUITS EXTEND BEYOND THE OUTLET IN THE EXISTING WALL, CEILING, OR FLOOR TO BE REMOVED, FURNISH AND INSTALL NEW CONDUIT AND WIRE TO EITHER REROUTE THE CIRCUIT OR FEED THE REMAINING OUTLET(S) FROM ANOTHER ELECTRICAL SOURCE, BUT IN SUCH	Sm MANUAL MOTOR STARTER WITH OVERLOADS OCCUPANCY SENSORS	13. PROVIDE SEAL-OFF FIT
F. VERIFY DEVICES AND DEVICE COVERPLATES COLOR AND STYLE WITH ARCHITECT. BOXES:	A MANNER AS NOT TO REVISE THE CIRCUIT. ALL REPOUTED CONDUIT SHALL BE APPROVED BY THE ARCHITECT.	1. DUAL TECHNOLOGY/ULTRASONIC CEILING SENSORS SHALL BE MOUNTED 6' FROM SUPPLY/EXHAUST AIR DIFFUSERS.	SYSTEM. UPON ACTIVAT BE SENT TO FIRE ALARI
A. HOT DIPPED GALVANIZED STEEL BOXES. PROVIDE TYPE TO SUIT CONDITIONS FOR INSTALLATION.	4) WHERE EXISTING OUTLETS IN A WALL, CEILING, OR FLOOR TO BE REMOVED ARE ESSENTIAL TO MAINTAIN OPERATION OF OTHER REMAINING OUTLETS, RELOCATE THE OUTLET TO A NEW CONVENIENT LOCATION. EXISTING WIRING DEVICES SHALL NOT BE REUSED, UNLESS OTHERWISE INDICATED.	2. LOW VOLTAGE CEILING SENSORS SHALL BE PROVIDED WITH 6' SLACK CONDUCTOR COILED AT SENSOR.	
B. ALL BOXES SHALL BE FLUSH MOUNTED, UNLESS INDICATED OTHERWISE.	5) WHERE LIGHTING FIXTURES ARE INDICATED TO BE DEMOLISHED, REMOVE ALL WIRE AND MODIFY THE EXISTING CONDUIT (IF APPLICABLE) FOR THE NEW LIGHTING. ALL UNUSED CONDUIT SHALL BE REMOVED.	So WALL MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR, WATT STOPPER #DW-100, TOP OF BOX AT 48" AFF	
	KEMOVED. 6) WHERE A TELEPHONE CIRCUIT EXTENDS BEYOND AN OUTLET IN AN EXISTING WALL, CEILING, OR FLOOR TO BE REMOVED, PROVIDE NECESSARY EMPTY CONDUIT AND NOTIFY THE OWNER WHO WILL	COMMUNICATIONS	
	REQUEST THE OWNER TO ARRANGE WITH THE TELEPHONE COMPANY FOR NEW WIRING TO OUTLETS THAT REMAIN.	DATA/TELEPHONE OUTLET WITH MINIMUM ³ / ₄ " CONDUIT STUBBED UP TO ABOVE ACCESSIBLE CEILING, BOTTOM OF BOX AT 16", UNLESS	
	7) WHERE EXISTING CONDUIT AND WIRE RUNS ARE LOCATED IN OR ATTACHED TO AN EXISTING WALL, CEILING OR FLOOR TO BE REMOVED, THEY SHALL BE REROUTED IN EITHER NEW OR EXISTING CONSTRUCTION TO MAINTAIN CONTINUITY OF CIRCUITS UNLESS OTHERWISE INDICATED.	NOTED OTHERWISE. PROVIDE WITH PULL STRING	
	 8) CONDUIT SHALL BE CONCEALED WITHIN THE EXISTING BUILDING CONSTRUCTION WHEREVER POSSIBLE, EXCEPT WHERE OTHERWISE INDICATED. 	FLAT SCREEN TELEVISION - PROVIDE AND INSTALL ONE (1) HUBBELL #RR1510X RECESSED TAMPER-RESISTANT DUPLEX RECEPTACLE WITH COVERPLATE AND ONE(1) HUBBELL #HBL260 TWO GANG LARGE	
	9) EXISTING WIRE SHALL BE DISCONNECTED AND REMOVED WHEREVER EXISTING CIRCUITS ARE ABANDONED.	COVERPLATE AND ONE(1) HUBBELL #HBL260 TWO GANG LARGE CAPACITY WALL BOX (UP TO 2" KNOCKOUT) W/ MUD RING AND COVERPLATE FOR DATA. PROVIDE 2"C WITH PULL STRING TO	
		ABOVE ACCESSIBLE CEILING FOR DATA CABLES. MOUNT BOX AT 7'-6" AFF UNLESS NOTED OTHERWISE (VERIFY)	
		7'-6" AFF UNLESS NOTED OTHERWISE (VERIFY)	1

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TO REMAIN. PROVIDE I TO EXISTING SYSTEM AS	1	39 Pr Pr w	ewLine Studio, LLC 965 W. 83rd St, #135 rairie Village, KC 66208 none: 913.318.5030 ww.newlinestudio.net fo@newlinestudio.net
BOX AT 48" AFF			
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ERLINE AT 6'-8" AFF		⊢	Σ
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THER TRADES AND EXISTING CONDITIONS AS LL ALL SYSTEMS AS INTENDED, WITHIN THE LABLE, AND WITHOUT INTERFERENCES.	4	ROOTSI	SUN SUN
TORS RESPONSIBILITY TO PROPERLY BALANCE THE PHASES OF THE SYSTEM REGARDLESS OF		Б	N N N N N
BE IN EMT CONDUIT, MC CABLE IS NOT		ŏ	ZШ
L REMOVE ALL EXISTING ELECTRICAL CONDUIT AND WIRE, ETC. NOT BEING REUSED. DO COORDINATE MANUFACTURER ELECTRICAL PMENT BEING FURNISHED WITH MECHANICAL H-IN. EQUIPMENT DISCONNECTS TO BE PROVIDED INLESS NOTED OTHERWISE IN MECHANICAL	5		940 LEE
WINGS FOR EXACT LOCATION OF LIGHT FIXTURES			
EXISTING AND TO REMAIN UNLESS NOTED NEW CONSTRUCTION. MAINTAIN PROPER ECTRICAL.		9,	/17/2021
N PLENUMS SHALL BE NONCOMBUSTIBLE OR NDEX OF NOT MORE THAN 25 AND A IOT MORE THAN 50 WHEN TESTED IN	6	RECEIPTION	OF MISON
AVE A DEDICATED NEUTRAL PER NEC 210.4. FOR SCHEMATIC PURPOSES. THE FIRE ALARM FOR PROVIDING DESIGN AND SHOP DRAWINGS OR APPROVAL AS REQUIRED BY THE FIRE		H S FRI	NUMBER E-2009030047
ORS RESPONSIBILITY TO PROVIDE ADDITIONAL FOR COMPLIANCE WITH CODE.	R	Revision	Date No.
E SIZED TO ALLOW FOR A MAXIMUM OF 3% SHALL BE SIZED TO ALLOW FOR A MAXIMUM OF AL CONTRACTOR SHALL VERIFY WIRING CREASE CONDUCTOR SIZE AS REQUIRED BASED OF CONDUCTORS.	7		
BETWEEN ALL 0-10V DIMMING DRIVERS RS PER MANUFACTURER'S INSTRUCTIONS WHETHER			
ALL COOLER/FREEZER PENETRATIONS.			
N SYSTEM TO BE INTERLOCKED WITH FIRE ALARM HOOD FIRE SUPPRESSION SYSTEM SIGNAL SHALL	8		
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1 LED CHANNEL ACCENT UPLIGHT, REFER TO ARCHIT LOCATION. CONNECT TO REMOTE DIMMING DRIVER LOCATION. 2 LED CHANNEL ACCENT UPLIGHT, REFER TO ARCHITEC LOCATION. CONNECT TO REMOTE DIMMING DRIVER 3 LED CHANNEL COVE LIGHT, REFER TO ARCHITECTU LOCATION. CONNECT TO REMOTE DIMMING DRIVER INSTALL PER MANUFACTURER'S INSTALLATION INSTR

LIGHTING PLAN NOTES:

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- 4 LED RECESSED CHANNEL IN BOTTOM OF EACH SHEL PLANS FOR MOUNTING LOCATION. CONNECT TO REM ACCESSIBLE CEILING. INSTALL PER MANUFACTURER'S
- 5 LED CHANNEL MOUNTED TO BOTTOM OF BARTOP, FOR MOUNTING LOCATION. CONNECT TO REMOTE D ACCESSIBLE LOCATION. INSTALL PER MANUFACTUR
- 6 ALL EXIT AND EMERGENCY LIGHTING TO BE CONNEC DP-1A IN DIMMING PANEL 'DP' WITH 2#12, 1#12G, IN 1/ CONTINUOUS OPERATION.
- 7 CONNECT ILLUMINATED MIRROR TO RESTROOM LIGH
- B LOCATION OF MASTER LIGHTING CONTROL STATION INSTALLATION REQUIREMENTS WITH THE OWNER PRIC SYSTEM DETAIL FOR MORE INFORMATION.
- PROVIDE EMERGENCY BATTERY BACKUP FOR 'EM' 0-10V DIMMING. LOCATE IN ACCESSIBLE REMOTE LA WIRING DIAGRAM ON SHEET E3.0.
- 10 LOCATION OF LOCAL SCENE LIGHTING CONTROL F
- 11 EXTERIOR EGRESS LIGHTING EXISTING TO REMAIN.
- 12 LIGHTING IN THIS AREA IS EXISTING TO REMAIN.
- 13 EXISTING SIGNAGE CIRCUIT TO REMAIN. ROUTE CIRC

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R'S INSTALLATION INSTI , REFER TO ARCHITECT DIMMING DRIVER LOC,	TURAL PLANS ATED IN		2		
RER'S INSTALLATION IN ECTED TO NON-DIMME 1/2"C. CIRCUIT SHALL	D CIRCUIT				
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I' TYPE FIXTURES WITH E LOCATION. REFER TO			3	No.	c
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CUIT THRU NEW TIME CL	.OCK.			RESTAURANT	
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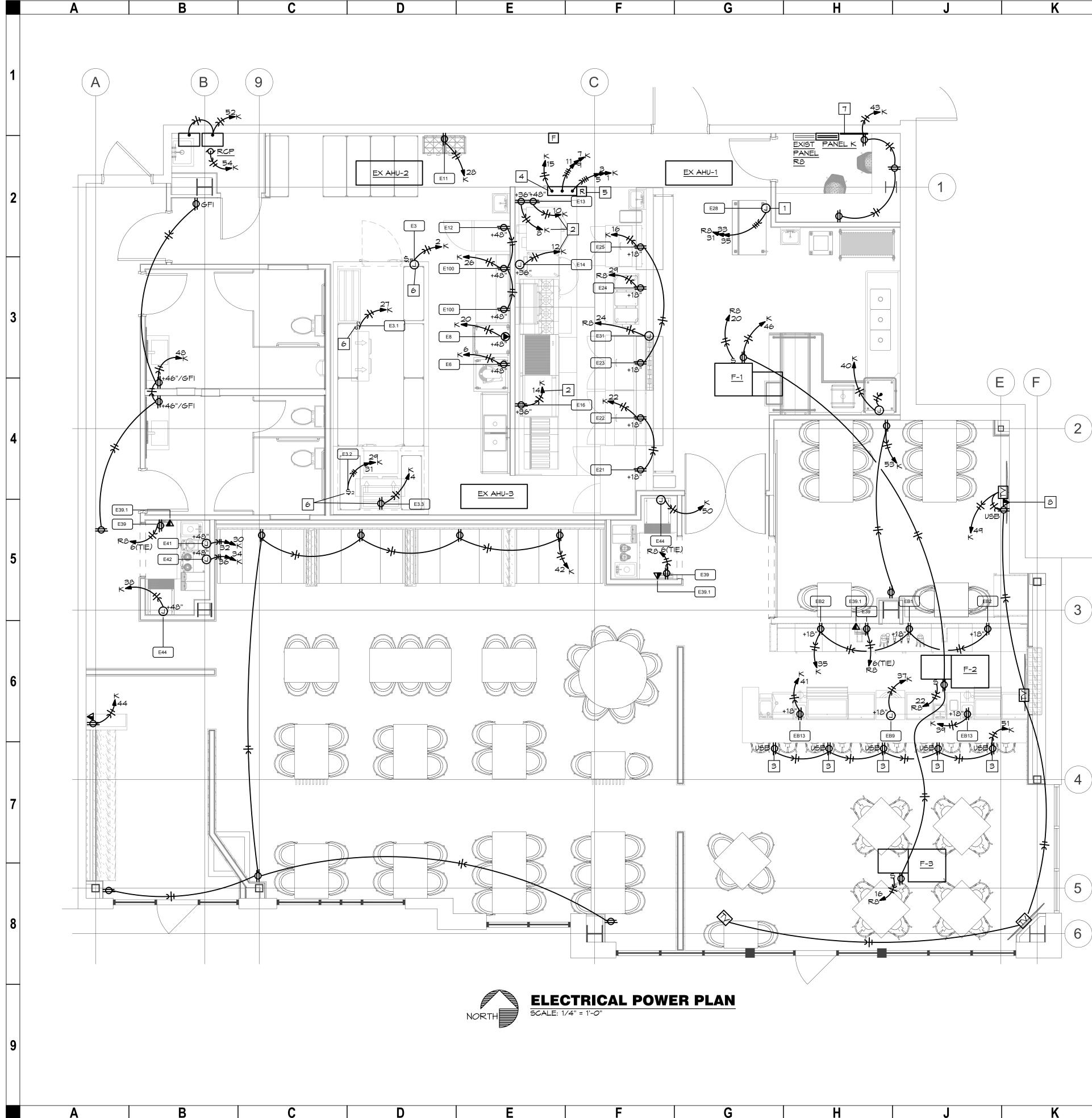
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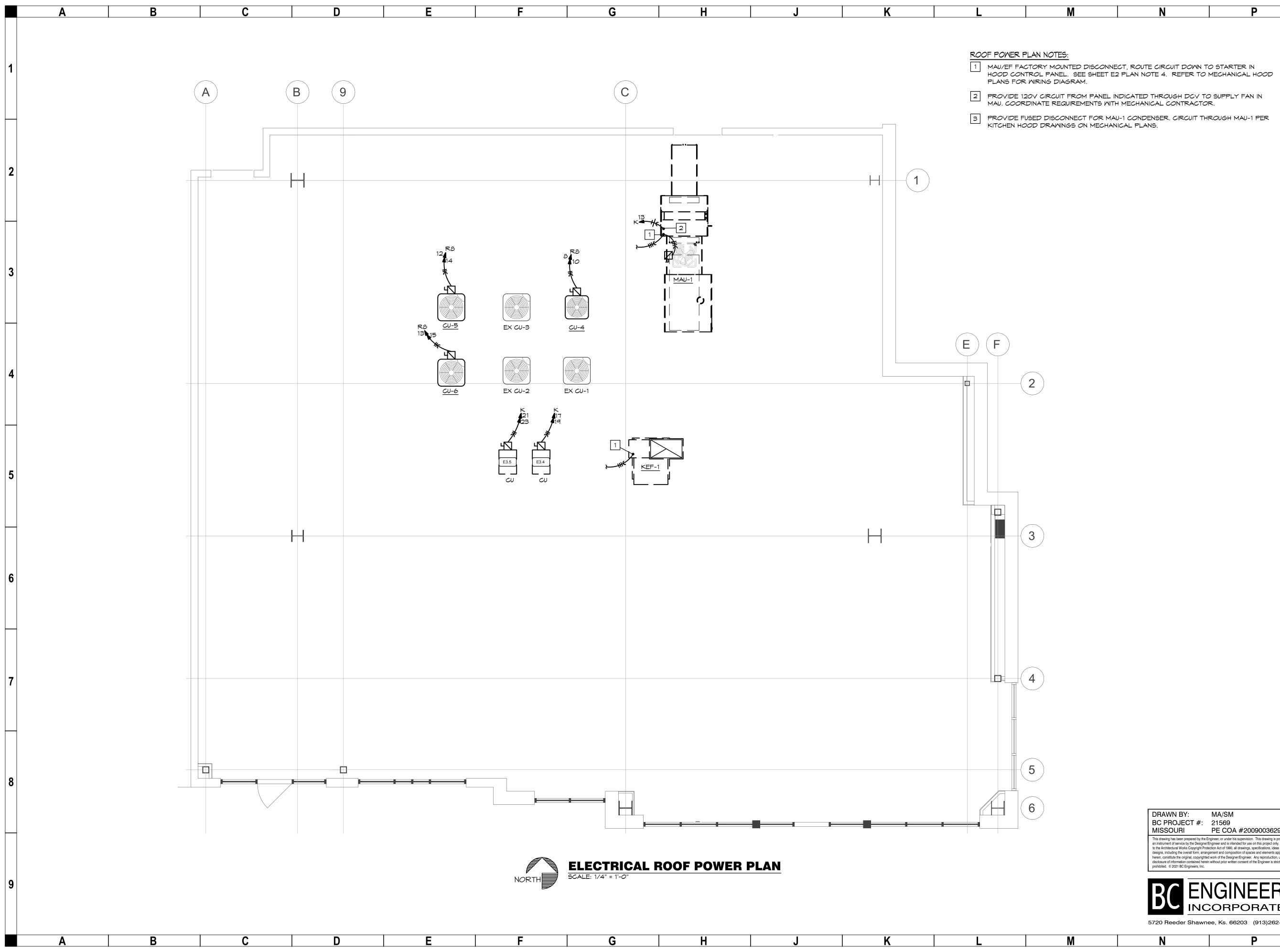
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Image: Section 2011 and	TK EX AHU-1	PANELS AS INDICATED FOR HOOD LIGHTS, CONTROLS, AND FANS. REFER TO MECHANICAL HOOD PACKAGE WIRING DIAGRAMS FOR ADDITIONAL WORK.	
 Independence of the first of th		REQUIRED BY FIRE MARSHALL. 2 6 CONNECT TO WALK-IN COOLER LIGHTS, EVAP AND HEAT TRACING PER	
Image: State Power Plan		7 TELEPHONE BACK BOARD. PROVIDE GROUND BAR WITH #6 CU BOND TO BUILDING	
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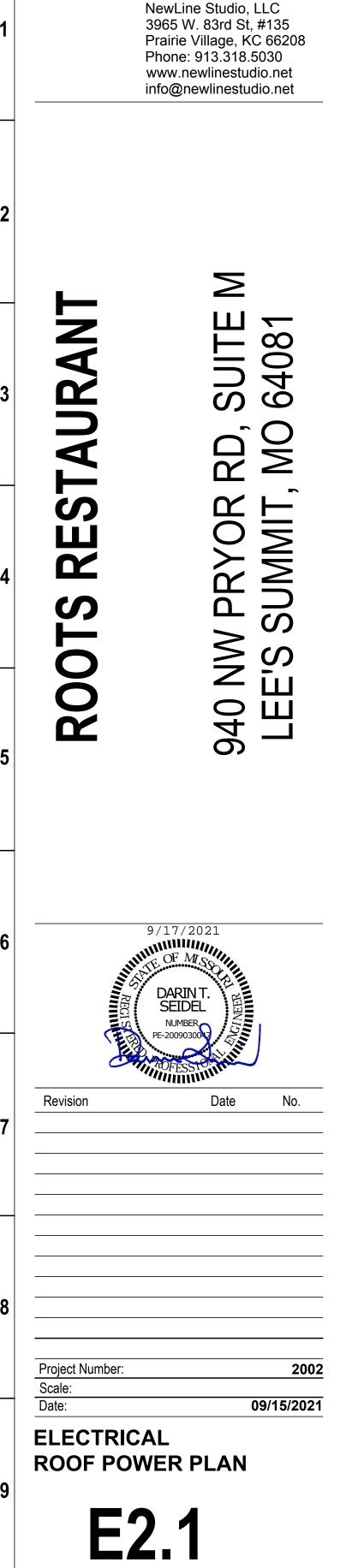
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11/03/2021

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2 PROVIDE 120V CIRCUIT FROM PANEL INDICATED THROUGH DCV TO SUPPLY FAN IN MAU. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.

3 PROVIDE FUSED DISCONNECT FOR MAU-1 CONDENSER. CIRCUIT THROUGH MAU-1 PER KITCHEN HOOD DRAWINGS ON MECHANICAL PLANS.



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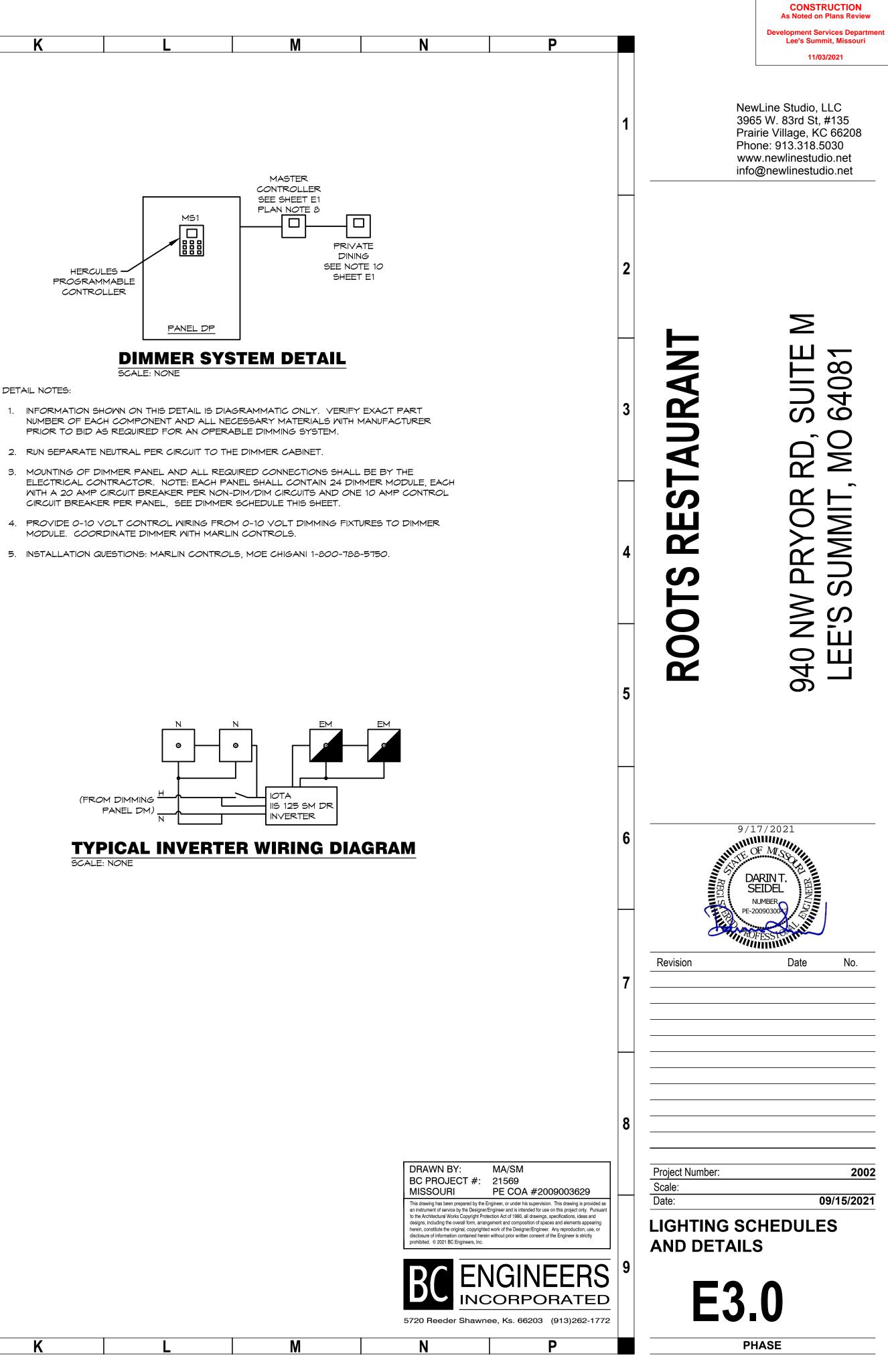
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	MARI NO.		IUFACTURER & ALOG NUMBER	VOLTS WATTS	LIGHT SOURCE	DESCR	IPTION	EQUIVALENT MANUFACTURERS
	A1	TECH LIGHT ENCL3R-F-I ENCL3R-F-I 353LEDGAT	_15-I	120 15	LED 1300LUM 2700K	3" DOWNLIGHT WITH 4 FIELD INSTALLED OP LOUVER, WHITE FINISH 0-10V DIMMING (1%)	TIC AND EGGCRATE	OR EQUAL
2	A2		_08-1	120 8	LED 700LUM 2700K	3" DOWNLIGHT WITH 4 FIELD INSTALLED OP LOUVER, WHITE FINISH 0-10V DIMMING (5%)	TIC AND EGGCRATE I	OR EQUAL
	B1	LUMEN ART ACL.90-270 BLACK-0-1	00K-120V-30-	120 15	LED 1060LUM 2700K	4" CYLINDER, BLACK 0-10V DIMMING (1%)	FINISH	
	B2	LIGHTHEAD C3P-R-6-2 P1-120-??-	4-24-828-27-9018-	120 16	LED 1800LUM 2700K	3" CYLINDER, BLACK 1 0-10V DIMMING (1%)	FINISH	OR EQUAL
	C1	9002-RM	PED W-W5-LWW-27- P-120-MMD10TFP	120 20	LED 1800LUM 2700K	MULTI-(10)LAMP WALI 0-10V DIMMING (1%)	_ WASH, WHITE FINISH	
3	C2	9002-RM	PED W-WS-LWW-27- P-120-MMD10TFP	120 30	LED 2700LUM 2700K	MULTI-(10)LAMP WALI 0-10V DIMMING (1%)	_ MASH, MHITE FINISH	
	СЗ	9002-RM	РЕД 04-ВА-LWW-27- P-120-MMD10TFP	120 20	LED 1800LUM 2700K	MULTI-(10)LAMP WALL FINISH 0-10V DIMMING (1%)	_ WASH, BLACK	
	D1	KELVIX FF2-SC-20	W-27K-IP20-24	120 120	LED 8250LUM 2700K	CUSTOM WITH OVAL B AND 6 SQFT OF LED S 0-10V DIMMING		
4	D2	KELVIX FF2-5C-20	W-27K-IP20-24	120 100	LED 6875LUM 2700K	CUSTOM WITH OVAL B AND 5 SQFT OF LED S 0-10V DIMMING		
	D1 ALT		.25-8-27-DIM-UNV .40-8-27-DIM-UNV	120 93	LED 13000LUM 2700K	CUSTOM FIXTURE WITH COVER AND LED STR 0-10V DIMMING (10%)	IP FIXTURES	
	D2 ALT	. (2) 155-2-L	.25-8-27-DIM-UN∨ .40-8-27-DIM-UN∨	120 93	LED 13000LUM 2700K	CUSTOM FIXTURE WITH COVER AND LED STR 0-10V DIMMING (10%)	IP FIXTURES	
5	E	ZANEEN D101797-Co	OP	120 10.7	LED 1260LUM 2700K	DECORATIVE BAR PEN FINISH	NDANT, COPPER	
	F1	KELVIX DL27K-24V CH502A-#-		120 2.6W/FT	LED 200LUM/FT 2700K	SHELF LIGHTING, LED CHANNEL W/ FLAT WH PROVIDE 0-10V DIMM	HITE LENS	
	F2	KELVIX DK27K-24 CH502A-#-		120 3.3M/FT	LED 400LUM/FT 2700K	COVE LIGHTING, LED CHANNEL W/ FLAT WH PROVIDE 0-10V DIMM	HITE LENS	
	F3	KELVIX DL27K-WR- CH607-#-C		120 2.6W/FT	LED 200LUM/FT 2700K	BAR SHELF LIGHTING CHANNEL W/ FLAT WH PROVIDE 0-10V DIMM	HITE LENS	
6	F4	KELVIX DK27K-24 CH0013-#-J		120 3.3W/FT	LED 400LUM/FT 2700K	COVE LIGHTING, LED CHANNEL W/ FLAT MH PROVIDE 0-10V DIMM	HITE LENS	
	G	COOPER 24CGT553	5C	120 46.8	LED 5100LUM 3500K	2'X4' TROFFER		
	н	NULITE RZ4-07L30	D-YNV-D3-1C-N-M-#	120 7.65W/F T	LED 765LUM/FT 3000K	RECESSED LINEAR GR PLANS FOR INDIVIDUA 0-10V DIMMING (1%)	•	
7	L	BEGA 50 698-K2	7-1	120 21	LED 1840LUM 2700K	SEMI-RECESSED LED I DIRECT/INDIRECT 0-10V DIMMING	DOWNLIGHT -	
	4	DUAL-LITE EV4D-02L		120 2	INCL	EMERGENCY LIGHT W ADJUSTABLE 2 WATT BATTERY, MOUNT AT OBSTACLES. (PROVI 39' CENTER FIXTURE S LOCATION RATED.	LED HEADS AND 7'-6"±, TO CLEAR DES 1 FC AVG. ON	SURE-LITES LITHONIA OR EQUAL
	1 <u>-</u> 7	ISOLITE MIGN2-WH-	MR-L-	120 9	INCL	RECESSED/CONCEAL EMERGENCY LIGHT W AND BATTERY, DAME	ITH TWIN LED HEADS	OR EQUAL
8	8	LITHONIA EDG-1-R-E	L-XX	120 1	INCL	EXIT LIGHT WITH LED LETTERS ON CLEAR E VERIFY MOUNTING CO BATTERY BACKUP	BACKGROUND,	OR EQUAL
	€ €	LITHONIA LHQM-LED	-R-HO-SD	120 3	INCL	COMBINATION EMERG WITH LED LAMPS, REI WHITE BACKGROUND EMERGENCY LIGHT H MOUNT, BATTERY BA	D LETTERS <i>O</i> N , TWIN LED EADS, UNIVERSAL	SURE-LITES LITHONIA OR EQUAL
9	NOTE	 ES:						
	Α	В	C		D		E	F

			ER PANEL DULE
MARK	FIXTURE MARK	TYPE	LOCATION
1	B1	0-10V	VESTIBULE
2	C1	0-10V	VESTIBULE SIGN
З	F1	0-10V	WAITING ACCENT
4	B2	0-10V	DINING CYLINDERS
5	D 1	0-10V	DINING
6	D2	0-10V	DINING
٦	СЗ	0-10V	DINING WALL
8	A2	0-10V	DINING ACCENT
٩	C1/C1	0-10V	RESTROOM HALLWA
10	A1	0-10V	BAR DINING
11	F2	0-10V	BAR SOFFIT
12	F3	0-10V	UNDER BAR
13	F1	0-10V	BAR SHELF
14	A1	0-10V	BAR
15	F2	0-10V	BAR TV NOOK
16	E	PHASE	BAR PENDANTS
17	C1	0-10V	BAR DINING WALL
18	A2	0-10V	BEVERAGE STATION
19	L	0-10V	PRIVATE DINING
20	A2	0-10V	PRIVATE DINING ALCO
21	A2	0-10V	BEVERAGE STATIO
22	F4/H	ON/OFF	RESTROOM
23	-	ON/OFF	RR MIRROR/EF
24	-	-	SPARE
1A			EM/EXIT

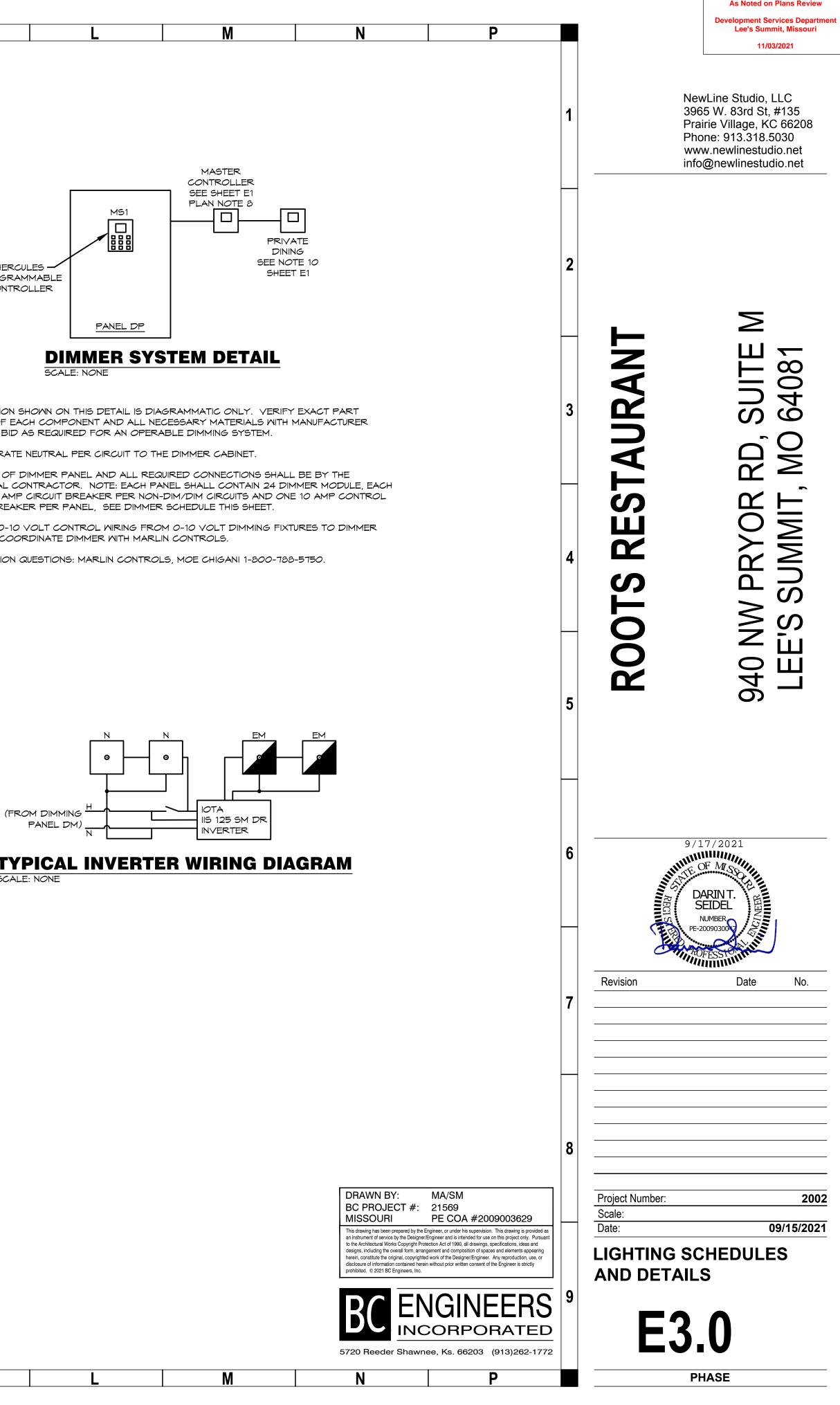
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DETAIL NOTES:

- PRIOR TO BID AS REQUIRED FOR AN OPERABLE DIMMING SYSTEM.
- 2. RUN SEPARATE NEUTRAL PER CIRCUIT TO THE DIMMER CABINET.
- CIRCUIT BREAKER PER PANEL, SEE DIMMER SCHEDULE THIS SHEET.
- MODULE. COORDINATE DIMMER WITH MARLIN CONTROLS.

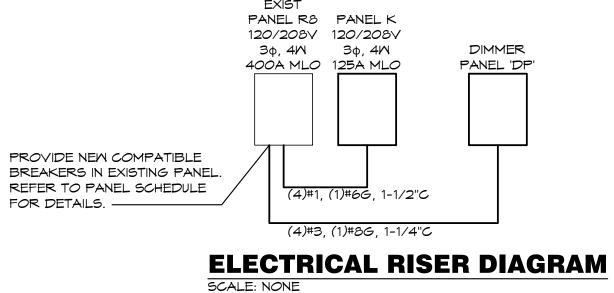


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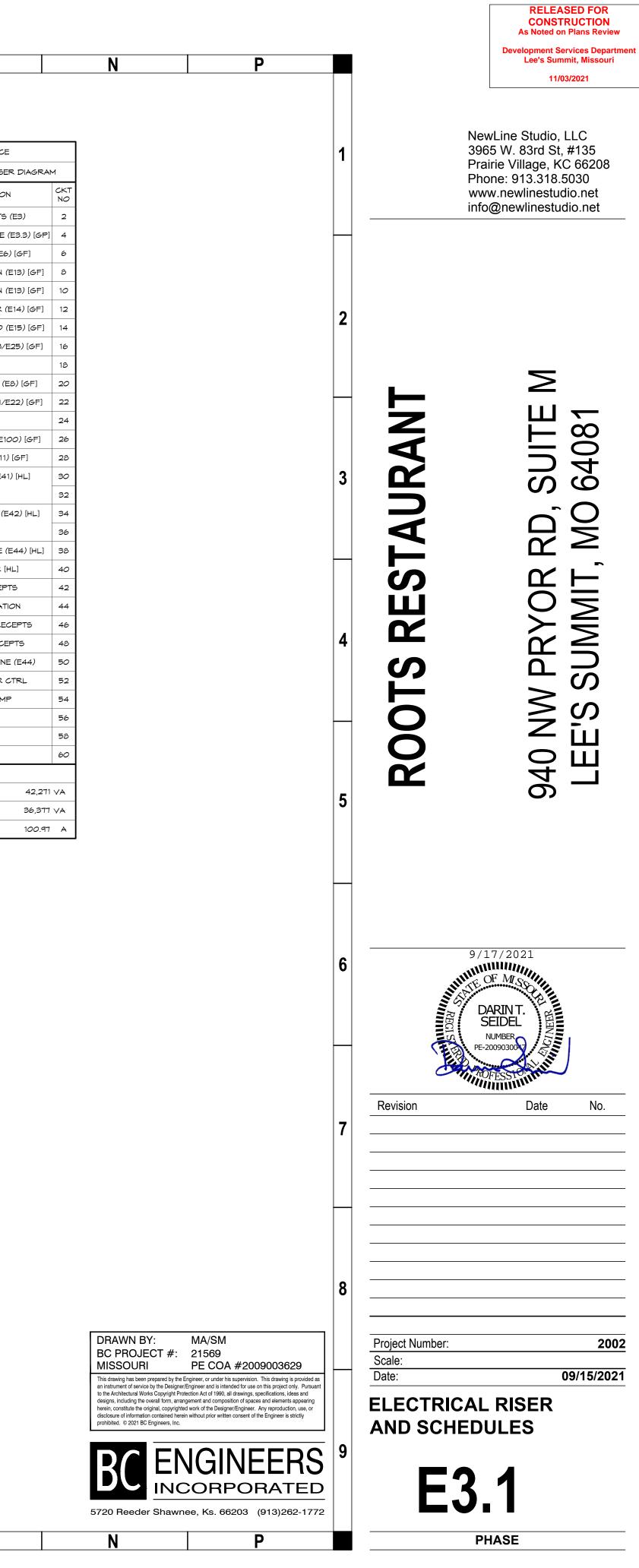
Α	B			С		D			E				F			G			Н		J			K				L			Ν	Λ
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																								1								
1			EXIST F	PANEL: Rô	VOLTS	120/20	8V F	н: ЗФ	MIRE:	4M	LOCATIO	N:	OFFICE	E	1	MOUNTING: SURFACE				PANEL: K	/OLTS:	120/2087	PH	зΦ	MIRE: 4	1M L	OCATION:	OFFI	CE		MOUNTING:	SURFACE
				BUS: 400A	MAIN:	400A MI	.0								Ŧ	FEEDER: EXISTING				BUS: 125A N	1AIN:	125A MLO	IC:	10,0	000 F	RMS SYM	AMPS				FEEDER:	SEE RISER D
			СКТ	DESCRIPTION	AMPS	POLE M	IRE ØA	ФВ	ФС	ΦΑ	ФВ	ФС	WIRE	POLE A	AMPS	DESCRIPTION	CKT NO	ск	<t< td=""><td>DESCRIPTION</td><td></td><td></td><td>ΦΑ</td><td>ФВ</td><td>ФС</td><td>ΦΑ</td><td>ФВ Ф</td><td></td><td></td><td>AMPS</td><td>DE</td><td>SCRIPTION</td></t<>	DESCRIPTION			ΦΑ	ФВ	ФС	ΦΑ	ФВ Ф			AMPS	DE	SCRIPTION
			1	AHU-R8/1 [EX]	70	2	4 5,928	, ,		50			12	1	20	EXIT LIGHTING [EX]	2	1		SPARE	20	1				600		12	1	20	MALK-	-IN LIGHTS (E3)
			з					5,928			1,200		12		20	EXTERIOR SIGNAGE [EX]	4	з	3		20	1					1,000	12	1			AT TRACE (E3.3
			5	AHU-R8/2 [EX]	70	2	4	-	5,928			360	12	1	20	POS RECEPTS (E39) [GF]	6	5	;		20	1					72	0 12	1	20		MIXER (E6) [GI
			7				5,928	,		1,560			10	2	25	CU-4	8	7	1	SPARE	20	1				948		12	1	20		ON OVEN (E13)
			٩	AHU-R8/3 [EX]	70	2	4	5,928			1,560						10	٩	1	SPARE	20	1					948	12	1	20	CONVECTIO	ON OVEN (E13)
			11						5,928			3,619	6	2	60	CU-5	12	11	1	SPARE	20	1					1,80	0 12	1	20	CONVEC. S	STEAMER (E14)
2			13	CU-6	60	2	6 3,619	·	_	3,619							14	13	3	MAU FAN CONTROLS	20	1 12	492			780		12	1	20	REFRIG. EG	R. STAND (E15)
			15					3,619			1,308		12	1	15	F-3	16	15	5	HOOD LIGHTING & CTRL	20	1 12		500			1,080	12	1	20	PREP REF	RIG (E23/E25)
			17	CU-R8/1 [EX]	50	2	6		2,735			895	12	1	20	BOH LIGHTING/EF	18	17	7	WALK-IN COOLER CU (E3.4)	20	2 12			1,186				1	20		SPARE
			19				2,735	;		816		_	12	1	15	F-1	20	19	7				1,186			2,004		12	1	20	HEATED C	CABINET (E8) [
			21	CU-R8/2 [EX]	45	2	8	2,184			1,308		12	1	15	F-2	22	21	1	WALK-IN FREEZER CU (E3.5)	20	2 12		1,310			1,200	12	1	20	REFRIG/FR	RZR (E21/E22)
			23					_	2,184		_	3,096	8	1	40	FOOD WARMER (E31) [GF]	24	23	з						1,310				1	20		SPARE
			25	CU-R8/3 [EX]	45	2	8 2,184			2,376							26	25	5	SPARE	20	1				360		12	1	20	REF/RCPT	TS (E12/E100)
			27					2,184			2,376		8	з	35	KEF-1	28	27	7 N	NALK-IN COOLER EVAP (E3.1)	15	1 12		192			1,200	12	1	20	BAG-N-	-BOX (E11) [GF
3			29 +	HOT FOOD WELL (E24) [GF]	30	1			2,256			2,376					30	20	9	WALK-IN FRZR EVAP (E3.2)	15	2 12			593		1,00	24 12	2	20	TEA BRI	EMER (E41) [HI
			31				1,500)		4,416							32	31	1				593			1,004						
			33	ICE MACHINE [HL]	20	з	12	1,500			4,416		6	з	50	MAU-1	34	33	з	HOOD CONTACTOR	20	1 12		100			1,560	12	2	20	COFFEE B	BREWER (E42)
			35						1,500			4,416					36	35	5 E	BAR REFRIG (EB1/EB2) [GF]	20	1 12			936		1,54	60				
			37				14,50	7		896							38	37	7	GLASSMASHER (EB9)	20	1 12	1,320			1,800		12	1	20	SODA/ICE N	MACHINE (E44,
			39	PANEL K	125	з	1	14,415			1,308		з	3	100	DIMMER PANEL 'DP'	40	39	9	BLENDER (EB13) [GF]	20	1 12		1,800			1,125	12	1	20	DISHI	WASHER [HL]
			41						13,349			1,074					42	41	1	BLENDER (EB13) [GF]	20	1 12			1,800		1,26	50 12	1	20	DININ	NG RECEPTS
			NOTES:				36,40	1 35,758	33,880	13,733	13,476	15,836						43	з	OFFICE RECEPTS	20	1 12	540			360		12	1	20	HOST	ESS STATION
			[EX]-EXIST	ING BRKR, [GF]-GFCI BRKR	R 5mA		5	0,134	49	1,234	49	,716		TOTAL C	CONNE	ECTED LOAD: 149,08	84 VA	45	5	SPARE	20	1					540	12	1	20	CONVEN	NENCE RECEPT
4			[HL]-HAND	DLE LOCK									_	NE	EC DEN	MAND LOAD: 110,8	371 VA	47	7	SPARE	20	1					72	0 12	1	20	RR CC	ONV. RECEPTS
												DE	EMAND A	AMPS @ 2	208 \	VOLT / 3Φ: 307.	75 A	49	9	TV RECEPTS	20	1 12	720			1,800		12	1	20	SODA/ICI	E MACHINE (E2
																		51	1	BAR RECEPTS	20	1 12		900			960	12	1	20	WATER	HEATER CTRI
																		53	з	PRIVATE DINING RECEPTS	20	1 12			360		10	0 12	1	20	REC	CIRC PUMP
																		55	5	SPARE	20	1							1	20		SPARE
																		57	7	SPARE	20	1							1	20		SPARE
																		59	9	SPARE	20	1							1	20		SPARE
																		NOT	TES:				4,851	4,802	6,185	9,656	9,613 7,16	54				
5																				CIBRKR 5MA, [GP]-GFEPBRKR :	30mA		14,	507	14,41	15	13,349		тот,	L CONNE	CTED LOAD:	
																		[HL]·	-HANE	DLE LOCK										NEC DE	MAND LOAD:	
																												DEMANI	D AMPS	9 208	VOLT / ЗФ:	
6																																
																							EXIST									
																							PANEL 120/20		NEL K 0/208√							
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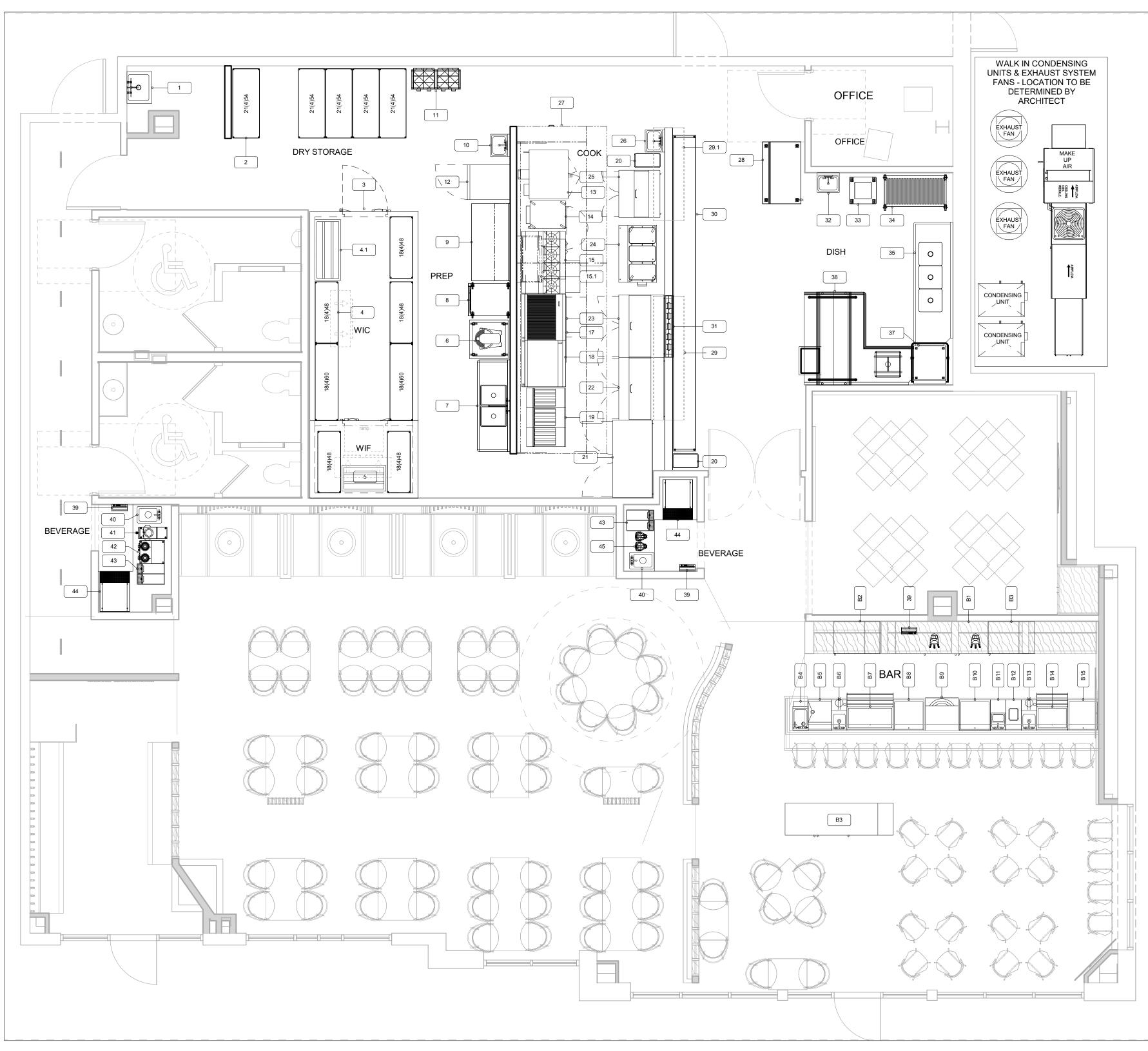
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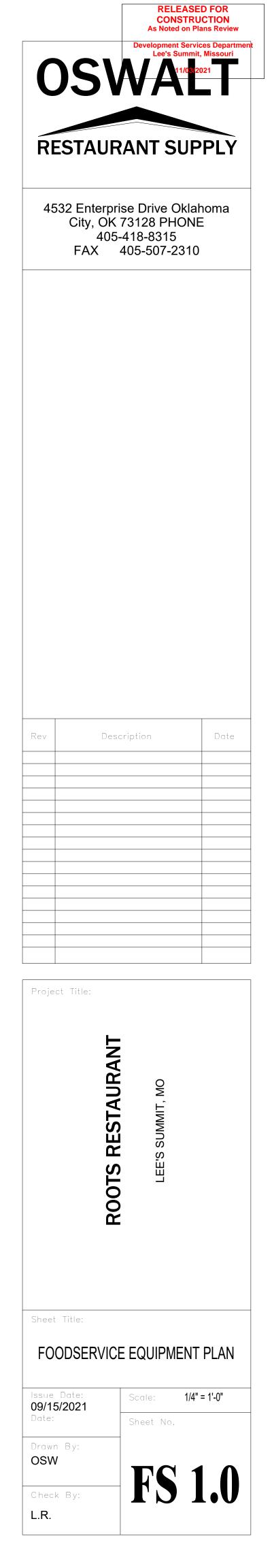


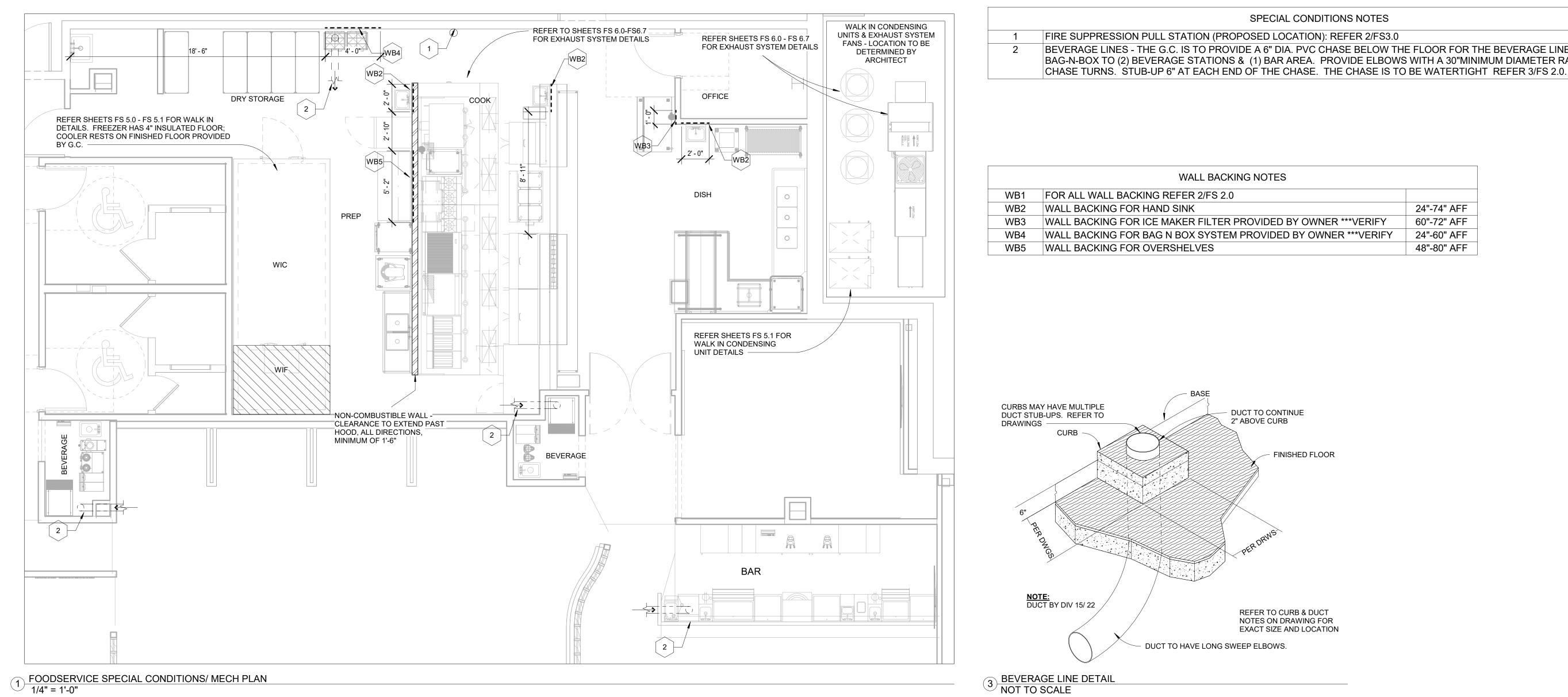


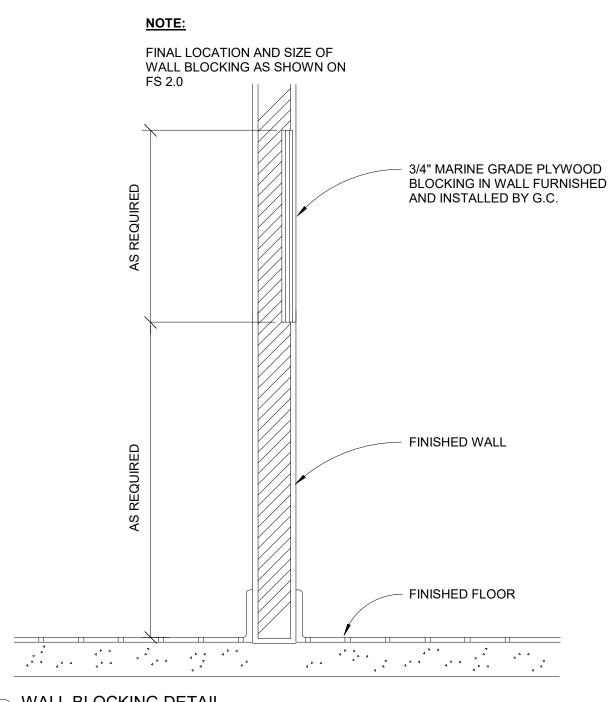


	FOODSERVICE EQUIPMENT SCHEDULE
ITEM	DESCRIPTION
1	MOP SINK CABINET
2	DRY STORAGE TRACK SHELVING
3	WALK IN COOLER/ FREEZER
4	COLD STORAGE SHELVING
4.1	DUNNAGE RACK DUNNAGE RACK
5 6	20 QT. MIXER W/STAND
7	TWO COMPARTMENT PREP SINK
8	MOBILE HEATED CABINET
9	WORK TABLE
10	HAND SINK
11	BAG-N-BOX - NOT BY K.E.C.
12	(1) DOOR REFRIGERATOR
13	CONVECTION OVEN - DOUBLE
14	CONVECTION STEAMER
15	8 OPEN BURNERS, 1 STANDARD OVEN, 1 CABINET
15.1	SALAMANDER
16	REFRIGERATED EQUIPMENT STAND
17	COUNTERTOP CHAR-GRILL GAS 36"
18 19	COUNTERTOP GRIDDLE 36" FRYERS
20	TRASH CAN
20	(2) DOOR WORK TOP FREEZER
22	PREP REFRIGERATOR
23	PREP REFRIGERATOR
24	ELECTRIC PORTABLE HOT FOOD UNITS W/ SEALED WELLS & DRAINS
25	PREP REFRIGERATOR
26	HAND SINK
27	EXHAUST HOOD
28	ICE MACHINE - NOT BY K.E.C.
29	DOUBLE PASS THRU SHELF
29.1	DOUBLE PASS THRU SHELF
30	
31	FOOD WARMER - STRIP HEAT
32 33	HAND SINK DISH RACK DOLLY
33	DISH DRYING RACK / MOBILE
35	CLEAN STRAIGHT DISHTABLE
36	SPARE NO
37	DISHWASHER-NOT BY K.E.C.
38	DIRTY DISHTABLE WITH LANDING & UNDERCOUNTER DUMP SINK
39	POINT OF SALE - NOT BY K.E.C
40	DROP IN SINK
41	TEA BREWER - NOT BY K.E.C
42	COFFEE BREWER - NOT BY K.E.C.
43	BEVERAGE DISPENSERS - NOT BY K.E.C
44	SODA & ICE DISPENSER - NOT BY K.E.C
45	AIRPOTS - NOT BY K.E.C
	BAR EQUIPMENT
B1 B2	BACK BAR KEG REFRIGERATOR BACK BAR REFRIGERATOR
ы2 В3	BACK BAR REFRIGERATOR
вз В4	HAND SINK
B5	DRAINBOARD
B6	BLENDER STATION W/ SINK
B7	ICE BIN W/ COLD PLATE
B8	GLASS RACK STORAGE
B9	GLASSWASHER - NOT BY KEC
B10	GLASS RACK STORAGE
B11	CHEMICAL STORAGE CABINET W/ SINK
B12	TRASH
B12 B13 B14	BLENDER STATION W/ SINK ICE BIN W/ COLD PLATE

	FOODSERVICE EQUIPMENT SCHEDULE
ITEM	DESCRIPTION
1	MOP SINK CABINET
2	DRY STORAGE TRACK SHELVING
3	
4	COLD STORAGE SHELVING DUNNAGE RACK
5	DUNNAGE RACK
6	20 QT. MIXER W/STAND
7	TWO COMPARTMENT PREP SINK
8	MOBILE HEATED CABINET
9	WORK TABLE HAND SINK
10 11	BAG-N-BOX - NOT BY K.E.C.
12	(1) DOOR REFRIGERATOR
13	CONVECTION OVEN - DOUBLE
14	CONVECTION STEAMER
15	8 OPEN BURNERS, 1 STANDARD OVEN, 1 CABINET
15.1	SALAMANDER REEDIGERATED FOLURMENT STAND
16 17	REFRIGERATED EQUIPMENT STAND COUNTERTOP CHAR-GRILL GAS 36"
18	COUNTERTOP GRIDDLE 36"
19	FRYERS
20	TRASH CAN
21	(2) DOOR WORK TOP FREEZER
22	PREP REFRIGERATOR
23 24	PREP REFRIGERATOR ELECTRIC PORTABLE HOT FOOD UNITS W/ SEALED WELLS & DRAINS
25	PREP REFRIGERATOR
26	HAND SINK
27	EXHAUST HOOD
28	ICE MACHINE - NOT BY K.E.C.
29	DOUBLE PASS THRU SHELF
29.1 30	DOUBLE PASS THRU SHELF DISH CABINET
31	FOOD WARMER - STRIP HEAT
32	HAND SINK
33	DISH RACK DOLLY
34	DISH DRYING RACK / MOBILE
35 36	CLEAN STRAIGHT DISHTABLE SPARE NO
37	DISHWASHER-NOT BY K.E.C.
38	DIRTY DISHTABLE WITH LANDING & UNDERCOUNTER DUMP SINK
39	POINT OF SALE - NOT BY K.E.C
40	
41	TEA BREWER - NOT BY K.E.C
42 43	COFFEE BREWER - NOT BY K.E.C. BEVERAGE DISPENSERS - NOT BY K.E.C
44	SODA & ICE DISPENSER - NOT BY K.E.C
45	AIRPOTS - NOT BY K.E.C
	BAR EQUIPMENT
ITEM	
B1 B2	BACK BAR KEG REFRIGERATOR BACK BAR REFRIGERATOR
B3	BACK BAR REFRIGERATOR
B4	HAND SINK
B5	DRAINBOARD
B6	BLENDER STATION W/ SINK
B7	ICE BIN W/ COLD PLATE
B8 B9	GLASS RACK STORAGE GLASSWASHER - NOT BY KEC
В9 B10	GLASSWASHER - NOT BY KEC
B10 B11	CHEMICAL STORAGE CABINET W/ SINK
B12	TRASH
B13	BLENDER STATION W/ SINK
B14	ICE BIN W/ COLD PLATE
B15	GLASS RACK STORAGE







2 WALL BLOCKING DETAIL NOT TO SCALE

NDITIONS	NOTES	

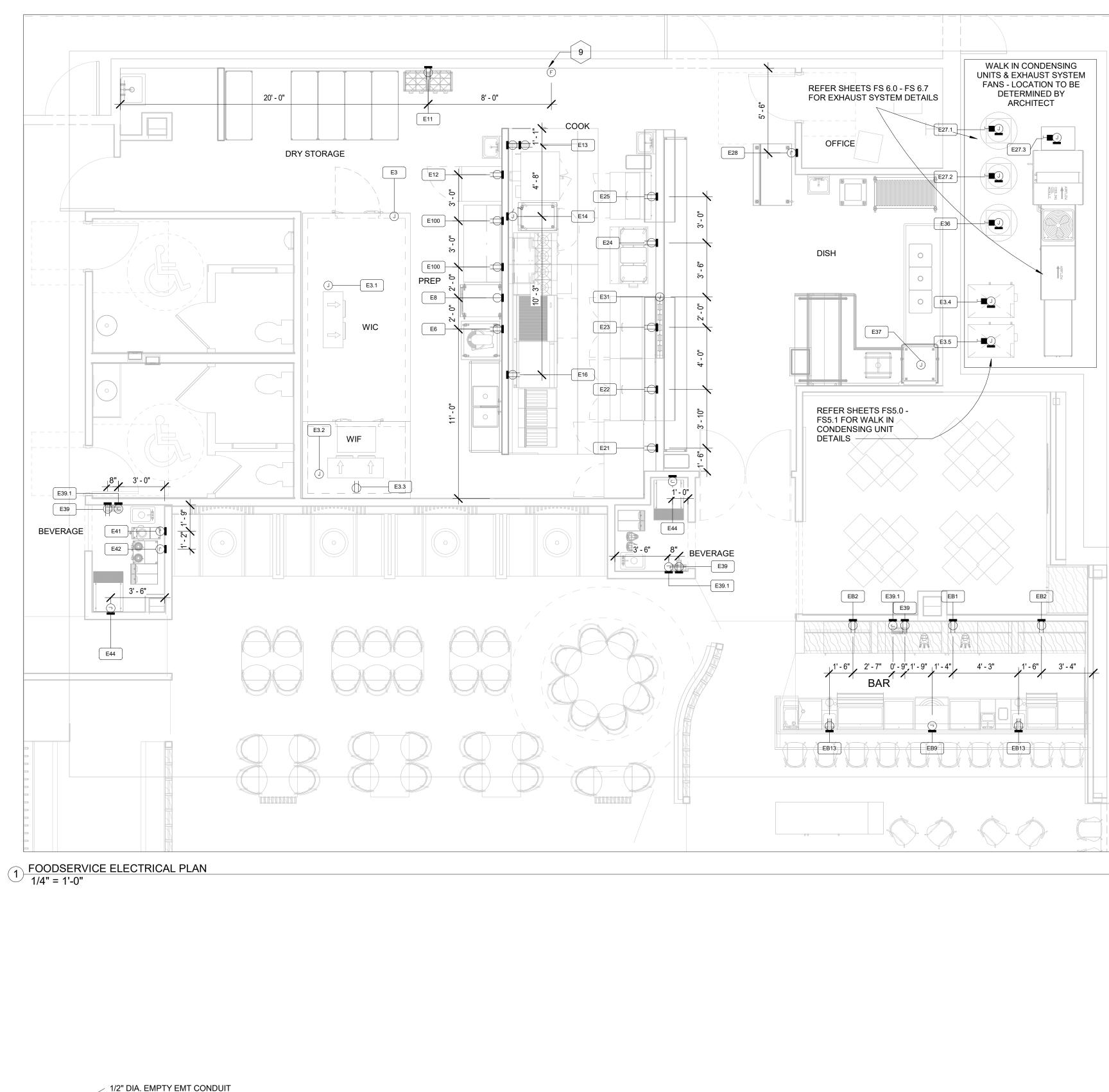
BEVERAGE LINES - THE G.C. IS TO PROVIDE A 6" DIA. PVC CHASE BELOW THE FLOOR FOR THE BEVERAGE LINES FROM BAG-N-BOX TO (2) BEVERAGE STATIONS & (1) BAR AREA. PROVIDE ELBOWS WITH A 30"MINIMUM DIAMETER RADIUS AT ALL

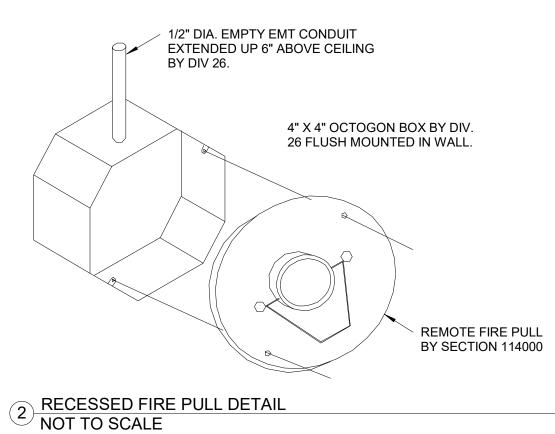
	24"-74" AFF
OWNER ***VERIFY	60"-72" AFF
YOWNER ***VERIFY	24"-60" AFF
	48"-80" AFF

BUILDING CONDITIONS / VENTILATION SYMBOLS

	WALL BACKING FLOOR DEPRESSION
	NON-COMBUSTIBLE WALL
	EXHAUST DUCT
	EXHAUST DUCT
	MAKE-UP AIR DUCT
	SUPPLY DUCT
0	BEVERAGE CONDUIT
	UTILITY CURB
	REFRIGERATION PAD
	FULL HEIGHT WALL
	GRAVITY EXHAUST CONNECTION
]	FIRE PULL STATION
00	REFRIGERATION LINE CHASE
<───	4" MIN. DIA. UNDER SLAB REFRIGERATION LINES.

6)SV	RELEASE CONSTRU As Noted on Pla Development Servic Lee's Summit, 11/08/20	CTION ans Review ces Department Missouri
		ANT SUP	
45	City, OK 405-	se Drive Oklał 73128 PHONE 418-8315 405-507-2310	
Rev	Desc	cription	Date
Proje	ct Title:		
	ROOTS RESTAURANT	LEE'S SUMMIT, MO	
	CONDI	RVICE SPECIA TIONS PLAN	
	1	Scale: As inc Sheet No.	





					FOODSERVICE ELECTRICAL S	CHEDULE		
NO	CONN.	LOAD	VOLT	PHASE	SERVICE TO	LOCATION	AFF	REMARKS
E3	JB	5.0A	120	1	WALK IN LIGHTS	ABOVE		BTC BY ELECTRICIAN
E3.1	JB	1.6A	115	1	WALK IN COOLER EVAP	ABOVE		BTC BY ELECTRICIAN
E3.2	JB	5.7A	208-230	1	WALK IN FREEZER EVAP	ABOVE		BTC BY ELECTRICIAN
E3.3	DR	15.0A	115	1	DRAIN HEAT TAPE	WALL		WEATHERPROOF: WALL MOUNTED
E3.4	JB/DS	11.4A	208-230	1	WALK IN COOLER COND	TBD		BTC: INTERCONNECT AS REQ BY ELECT
E3.5	JB/DS	12.6	208-230	1	WALK IN FREEZER COND	TBD		BTC: INTERCONNECT AS REQ BY ELECT
E6	DR	6.0 A	115	1	20 QT. MIXER W/STAND	WALL	48"	NEMA 5-15P
E8	SR	16.7	120	1	MOBILE HEATED CABINET	WALL	48"	NEMA 5-20P
E11	DR	10.0 A	120	1	BAG-N-BOX - NOT BY K.E.C.	WALL	18"	VERIFY REQUIREMENTS
E12	DR	3.8 A	115	1	(1) DOOR REFRIGERATOR	WALL	48"	NEMA 5-15P
E13	DR (2)	7.9 A (EA)	120	1	CONVECTION OVEN - DOUBLE	WALL	36"&48"	NEMA 5-15P
E14	JB	15.0 A	120	1	CONVECTION STEAMER	WALL	36"	BTC BY ELECTRICIAN
E16	DR	6.5 A	115	1	REFRIGERATED EQUIPMENT STAND	WALL	36"	NEMA 5-15P
E21	DR	5.0A	115	1	(2) DOOR WORK TOP FREEZER	WALL	18"	NEMA 5-15P
E22	DR	5.0A	115	1	PREP REFRIGERATOR	WALL	18"	NEMA 5-15P
E23	DR	5.0A	115	1	PREP REFRIGERATOR	WALL	18"	NEMA 5-15P
E24	DR	18.8A	120	1	HOT FOOD WELL	WALL	18"	NEMA L5-30
E25	DR	4.0A	115	1	PREP REFRIGERATOR	WALL	18"	NEMA 5-15P
E27.1	JB/DS	15.0A	208	3	EXHAUST FAN	TBD		VERIFY REQUIREMENTS
E27.2	JB/DS	6.6A	208	3	EXHAUST FAN	TBD		VERIFY REQUIREMENTS
E27.3	JB/DS	9.5A	208	1	EXHAUST MAKE UP AIR	TBD		VERIFY REQUIREMENTS
E28	JB	VERIFY	VERIFY	VERIFY	ICE MACHINE - NOT BY K.E.C.	WALL		VERIFY REQUIREMENTS
E31	JB	25.8A	120	1	FOOD WARMER - STRIP HEAT	WALL		BTC BY ELECTRICIAN
E36	JB/DS	4.3A	115		DISH EXHAUST FAN	TBD		VERIFY REQUIREMENTS
E37	JB	VERIFY	VERIFY	VERIFY	DISH MACHINE - NOT BY KEC	VERIFY	VERIFY	VERIFY REQUIREMENTS - NOT BY KEC
E39	DR	VERIFY	VERIFY	VERIFY	POINT OF SALE - NOT BY K.E.C	WALL	VERIFY	VERIFY REQUIREMENTS
E39.1	JB				POINT OF SALE - NOT BY K.E.C	WALL	VERIFY	EMPTY CONDUIT FOR COMMUNICATION WIRING-VERIFY
E41	JB	10.0A	208	1	TEA BREWER - NOT BY K.E.C	WALL	48"	VERIFY REQUIREMENTS
E42	JB	15.0 A	208	1	COFFEE BREWER - NOT BY K.E.C.	WALL	48"	VERIFY REQUIREMENTS
E44	JB	15.0A	120	1	SODA & ICE DISPENSER - NOT BY K.E.C	WALL	48"	VERIFY REQUIREMENTS
E100	DR	15.0A	120	1	CONVENIENCE OUTLET	WALL	48"	
EB1	DR	4.2A	120	1	BACK BAR REFRIGERATOR	WALL	18"	NEMA 5-15P
EB2	DR	1.8A	120	1	BACK BAR REFRIGERATOR	WALL	18"	NEMA 5-15P
EB9	JB	11.0A	120	1	GLASSWASHER - NOT BY KEC	WALL	18"	VERIFY REQUIREMENTS
EB13	DR	15.0 A	120	1	BLENDER STATION	WALL	18"	BTC BY ELECTRICIAN

	E
1	ELECTRICAL CONNECTIONS INDICATED ARE THE
	REQUIREMENTS REFER TO ELECTRICAL ENGINE
2	DIMENSIONS INDICATED ARE TO BE VERIFIED B
3	ACCESSORIES AND FITTINGS PROVIDED LOOSE
4	ALL ELECTRICAL CONNECTIONS BENEATH EXHA
	PANEL BOX FOR SHUT-DOWN DURING FIRE MOD
5	INTERCONNECT EXHAUST HOOD FANS, SWITCH
6	INTERCONNECT FIRE PROTECTION SYSTEM TO
7	EMPTY CONDUIT FROM EACH CASH REGISTER 1
8	CONNECTION OF ELECTRICAL TO EXHAUST HOC
	DETAIL SHEETS
9	FIRE SUPPRESSION PULL STATION (PROPOSED
L	

		ELECTRICAL	SYN	1BOLS	
Þ	DR	DUPLEX RECEPTACLE IN WALL	Œ	F	REMOTE FIRE PULL STATION
IJ	JB	JUNCTION BOX IN WALL	X	VP	VAPOR-PROOF LIGHT
Ø	SR	SINGLE PURPOSE RECEPTACLE	Īr	JB/DS	JUNCTION BOX WITH DISCONNECT
\ominus	DR	DUPLEX RECEPTACLE FROM ABOVE	\$	SW	SWITCH
D	JB	JUNCTION BOX FROM ABOVE	a d	C SR	CONDUIT STUB-BT
œ	DR/ST	DUPLEX RECEPTACLE STUB-UP			
O	JB/ST	JUNCTION BOX STUB-UP		BTC	BRANCH TO CONNECTION
Ô	SR/ST	SINGLE PURPOSE RECEPTACLE STUB-UP		AFF	ABOVE FINISHED FLOOR
\mathbb{M}	DATA	DATE LINE		DFA	DROP FROM ABOVE
œ ^{₩₽}	WPR	WEATHERPROOF RECEPTACLE			

ELECTRICAL NOTES

HOSE REQUIRED FOR THE FOODSERVICE EQUIPMENT. FOR ADDITIONAL NEER'S DRAWINGS

BY G.C. AND ADJUSTED AS REQUIRED

E WITH FOODSERVICE EQUIPMENT BY K.E.C. TO BE INSTALLED BY G.C. HAUST HOOD TO EXTEND TO SHUNT TRIP BREAKERS WITHIN ELECTRICAL ODE - BY G.C.

CHES, LIGHTS, & COMPONENTS BY G.C.

O PANEL BOX SHUNT TRIP BREAKERS AND BUILDING ALARM BY G.C. R TO OWNER DETERMINED LOCATION - BY G.C.

OOD SYSTEM AND ALL COMPONENTS BY G.C. REFER TO EXHAUST HOOD

D LOCATION): REFER 2/FS3.0

	~ 1	C As N Develop Le	RELEASE CONSTRU Noted on Pla ment Servic e's Summit	CTION ans Revi ces Depa , Missou
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Issue Dat 09/15/20 Date:		Sheet I		

L.R.

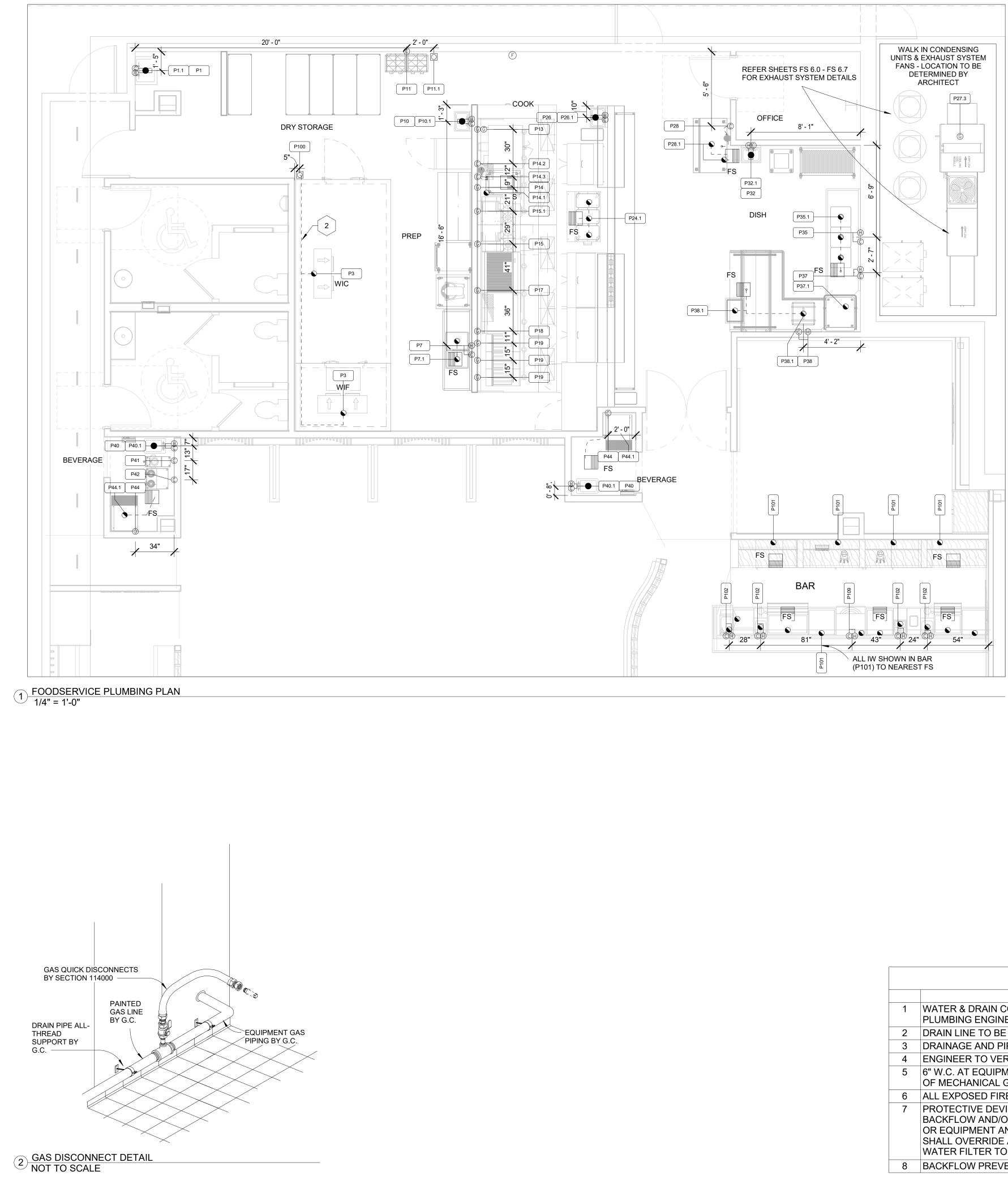


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P11 2" DW MOP SINK FLOOR	NO	SIZE		SERVICE TO		AFF	REMARKS
P3 1* IW WALK IN	P1	1/2"	HW & CW	MOP SINK	FLOOR		
17 112" HW & CW FAUCET WALL 18" P7.1 1.12" WW SINK	P1.1	2"	DW	MOP SINK	FLOOR		
IP7.1 1-1/2" IW SINK - - IW TO FS; PROVIDE AIR GAP P10 1/2" HW & CW HAND SINK WALL 20" P11 1/2" DW HAND SINK WALL 20" P11 1/2" DW HAND SINK WALL 20" P11 VERIFY D BAG-N-BOX FLOR VERIFY WITH PROVIDER - NOT BY KEC P13 3/4" (2 EA) NG CONVECTION OVEN WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 B14.1 3/4" NG STEAMER WALL 36" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 P14.2 3/4" CW STEAMER WALL 36" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 P14.3 3/4" CW STEAMER WALL 36" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 1/4" SIG SALAMANDER WALL 4" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 1/4" SIG CHARBROILER WALL 4"	P3	1"	IW	WALK IN			IW TO P100; REFER NOTE 2 FS 4.0
P10 112" HW & CW HAND SINK WALL 18" P10.1 1-12" DW HAND SINK WALL 20" P11.1 12" CW BAG-N-BOX WALL 36" VERIFY WITH PROVIDER - NOT BY KEC P11.1 VERIFY FD BAG-N-BOX FLOOR - VERIFY WITH PROVIDER - NOT BY KEC P13.3/4" CW CONVECTION OVEN WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 S8.0 MBTU S44" NG STEAMER	P7	1/2"	HW & CW	FAUCET	WALL	18"	
P10.1 1-1/2" DW HAND SINK WALL 20' P11 1/2" CW BAG-N-BOX WALL 36'' VERIFY WITH PROVIDER - NOT BY KEC P11.1 VERIFY FD BAG-N-BOX FLOOR - VERIFY WITH PROVIDER - NOT BY KEC P13 3/4" (2 EA) NG CONVECTION OVEN WALL 24'' BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 P14.3 3/4" NG STEAMER WALL 24'' BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 P14.3 3/4" IW STEAMER WALL 36'' BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 200 STEAMER WALL 36'' BTC: TONNECT UNFILTERED DATER TO STEAMER - P14.3 3/4" NG RANGE WALL 48'' BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 10 1/4" NG SALMANDER WALL 48'' BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 11 3/4" NG GRIDLE WALL 48''' BTC: THRU GAS HOSE PROVIDED BY	P7.1	1-1/2"	IW	SINK			IW TO FS; PROVIDE AIR GAP
P11 1/2" CW BAGA-BOX WALL 36" VERIFY WITH PROVIDER - NOT BY KEC P11.1 VERIFY FD BAGA-BOX FLOOR	P10	1/2"	HW & CW	HAND SINK	WALL	18"	
P111 VERIFY FD BAG-N-BOX FLOOR	P10.1	1-1/2"	DW	HAND SINK	WALL	20"	
P13 3/4" (2 EA) NG CONVECTION OVEN WALL 24" BTC: THEU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 54.0 MBTU EACH P14 3/4" NG STEAMER WALL 24" BTC: THEU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 58.0 MBTU P14.1 3/4" IW STEAMER	P11	1/2"	CW	BAG-N-BOX	WALL	36"	VERIFY WITH PROVIDER - NOT BY KEC
P14 3/4" NG STEAMER WALL 24" 54.0 MBTU EACH P14.1 3/4" WG STEAMER WALL 24" TC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 58.0 MBTU P14.2 3/4" CW STEAMER (FILTERED) WALL 36" BTC: THRU MATER FILTER PROVIDED BY KEC; P14.3 3/4" CW STEAMER (UNFILTERED) WALL 36" BTC: THRU MATER FILTER PROVIDED BY KEC; P15 3/4" NG SALAMANDER WALL 48" BTC: HARU BAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 259.0 MBTU P15 3/4" NG SALAMANDER WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 120.0 MBTU P17 3/4" NG GRIDDLE WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 120.0 MBTU P26 1/2" NG FRYER WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 120.0 MBTU P26.1 1.4" NG GRIDDLE	P11.1	VERIFY	FD	BAG-N-BOX	FLOOR		VERIFY WITH PROVIDER - NOT BY KEC
P14.1 3/4" IW STEAMER WTO FS; PROVIDE AIR GAP P14.2 3/4" CW STEAMER (FILTERED) WALL 36" BTC. THRU WATER FILTER PROVIDED BY KEC P14.3 3/4" CW STEAMER (UNFILTERED) WALL 36" BTC. TORU WATER FILTER PROVIDED BY KEC P15 3/4" NG RANGE WALL 4" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 259.0 MBTU P15.1 3/4" NG SALAMANDER WALL 4" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 120.0 MBTU P16 3/4" NG GRIDDLE WALL 4" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 120.0 MBTU P18 3/4" NG GRIDDLE WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 120.0 MBTU P14 3/4" (3 EA) IW HOT FOOD WELLS - - IW TO FS; PROVIDE AIR GAP P26.1 1-1/2" DW HAND SINK WALL 20" P27.3 1" NG MAKE UP AIR HETER TBD - <t< td=""><td>P13</td><td>3/4" (2 EA)</td><td>NG</td><td>CONVECTION OVEN</td><td>WALL</td><td>24"</td><td>BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0; 54.0 MBTU EACH</td></t<>	P13	3/4" (2 EA)	NG	CONVECTION OVEN	WALL	24"	BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0; 54.0 MBTU EACH
P14.2 3/4" CW STEAMER (FILTERED) WALL (WALL 36" BTC: THRU WATER FILTER PROVIDED BY KEC P14.3 3/4" CW STEAMER (UNFILTERED) WALL 36" BTC: THRU WATER FILTER PROVIDED BY KEC; CONDENSATE WATER CONNECTION" P15 3/4" NG RANGE WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 259.0 MBTU P15.1 3/4" NG SALAMANDER WALL 4" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 120.0 MBTU P17 3/4" NG CHARROILER WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 122.0 MBTU P18 3/4" NG FRYER WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 90.0 MBTU P24.1 3/4" (3 EA) NG FRYER WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 91.0 MBTU P24.1 3/4" (3 EA) NG FRYER WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 91.0 MBTU P24.1 3/4" (3 EA) NG MAKE UP AIR HATD SINK MAL 24"	P14	3/4"	NG	STEAMER	WALL	24"	BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0; 58.0 MBTU
Image: Pite and the state of the s	P14.1	3/4"	IW	STEAMER			IW TO FS; PROVIDE AIR GAP
Image: Constraint of the state of	P14.2	3/4"	CW		WALL	36"	BTC: THRU WATER FILTER PROVIDED BY KEC
P15.1 3/4" NG SALAMANDER WALL 48" BTC: HARD PIPED; 40.0 MBTU P17 3/4" NG CHARBROILER WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 120.0 MBTU P18 3/4" NG GRIDDLE WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 90.0 MBTU P19 3/4" (3 EA) NG FRYER WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 90.0 MBTU P24.1 3/4" (3 EA) IW HOT FOOD WELLS IW TO FS; PROVIDE AIR GAP P26 1/2" HW & CW HAND SINK WALL 20" P27.3 1" NG MAKE UP AIR HEATER TBD IW TO FS; PROVIDE AIR GAP P28.1 1/2" CW ICE MAKER WALL 20" VERIFY 306.0 MBTU P32 1/2" HW & CW HAND SINK WALL 20" VERIFY 306.0 MBTU P32.1 1-1/2" DW HAND SINK WALL 20" VERIFY 306.0 MBTU	P14.3	3/4"	CW		WALL	36"	
P17 3/4" NG CHARBROILER WALL 24" BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 12.0. MBTU P18 3/4" NG GRIDDLE WALL 24" ETC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 90.0 MBTU P19 3/4" (3 EA) NG FRYER WALL 24" ETC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 122.0 MBTU EACH P24.1 3/4" (3 EA) IW HOT FOOD WELLS 44" ETC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0 122.0 MBTU EACH P26.1 1.1/2" HW & CW HAND SINK WALL 48" 20" P26.1 1.1/2" DW HAND SINK WALL 48" 20" P27.3 1" NG MAKE UP AIR HEATER TDD P28.1 1" IW ICE MAKER IW TO FS; PROVIDE AIR GAP; VERIFY - NOT BY KEC P32.1 1-1/2" DW HAND SINK WALL 48" 20" P35.1 1-1/2" DW HAND SINK WALL 48" 24" IW TO FS; PROVIDE AIR GAP P35.1 1-1/2" WW & CW FAUCET	P15	3/4"	NG	RANGE	WALL	24"	BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0; 259.0 MBTU
P183/4"NGGRIDDLEWALL24"120.0 MBTUP193/4" (3 EA)NGGRIDDLEWALL24"BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0P24.13/4" (3 EA)NGFRYERWALL24"BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0P24.13/4" (3 EA)IWHOT FOOD WELLS	P15.1	3/4"	NG	SALAMANDER	WALL	48"	BTC: HARD PIPED; 40.0 MBTU
P193/4" (3 EA)NGFRYERWALL24"BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0P24.13/4" (3 EA)IWHOT FOOD WELLSIW TO FS; PROVIDE AIR GAPP261/2"HW & CWHAND SINKWALL18"P26.11-1/2"DWHAND SINKWALL20"P27.31"NGMAKE UP AIR HEATERTBDVERIFY 306.0 MBTUP281/2"CWICE MAKERWALL66"VERIFY WITH PROVIDER - NOT BY KECP28.11"IWICE MAKERWALL18"P32.11-1/2"DWHAND SINKWALL20"P351/2"HW & CWFAUCETWALL18"P35.11-1/2"IWSINKWALL20"P36.11-1/2" (3IWSINKIW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP371/2"HW & CWFAUCETWALL18"P37.11"IWDISH MACHINEIW TO FS; PROVIDE AIR GAPP38.11-1/2"IW & CWFAUCETWALL18"P40.11-1/2"IW & COWSINKWALL18"P40.11-1/2"WDISH MACHINEIW TO FS; PROVIDE AIR GAPP411/2"WWSINKWALL18"P40.11-1/2"WDISH KWALL18"P40.11-1/2"WSINKWALL18"P41.11/2	P17	3/4"	NG	CHARBROILER	WALL	24"	BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0; 120.0 MBTU
P24.13/4" (3 EA)IWHOT FOOD WELLSIZ2.0 MBTU EACHP261/2"HW & CWHAND SINKWALL18"P26.11-1/2"DWHAND SINKWALL20"P27.31"NGMAKE UP AIR HEATERTBDVERIFY 306.0 MBTUP27.31"NGMAKE UP AIR HEATERTBDVERIFY WITH PROVIDER - NOT BY KECP28.11"IWICE MAKERIW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP321/2"HW & CWHAND SINKWALL18"P32.11-1/2"DWHAND SINKWALL20"P351/2"HW & CWFAUCETWALL18"P35.11-1/2"DWHAND SINKWALL20"P351/2"HW & CWFAUCETWALL18"P35.11-1/2" (3)IWSINKIW TO FS; PROVIDE AIR GAPP371/2"HW & CWDISH MACHINEWALL18"P38.11-1/2"IWDISH MACHINEWALL18"P38.11-1/2"IWDISH TABLEIW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP38.11-1/2"IWDISH TABLEIW TO FS; PROVIDE AIR GAP:P40.11/2"CWCOFFEE BREWERWALL18"P40.11/2"CWCOFFEE BREWERWALL48"P40.11/2"CWCOFFEE BREWERWALL18"P41.1	P18	3/4"	NG	GRIDDLE	WALL	24"	BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0; 90.0 MBTU
P26 1/2" HW & CW HAND SINK WALL 18" P26.1 1-1/2" DW HAND SINK WALL 20" P27.3 1" NG MAKE UP AIR HEATER TBD VERIFY 306.0 MBTU P28 1/2" CW ICE MAKER WALL 66" VERIFY WITH PROVIDER - NOT BY KEC P28.1 1" IW ICE MAKER IW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KEC P32 1/2" HW & CW HAND SINK WALL 20" P35 1/2" HW & CW FAUCET WALL 18" P35.1 1-1/2" (3 IW SINK IW TO FS; PROVIDE AIR GAP P37.1 1" IW DISH MACHINE WALL 18" VERIFY WITH PROVIDER - NOT BY KEC P38 1/2" HW & CW FAUCET WALL 18" VERIFY WITH PROVIDER - NOT BY KEC P38.1 1-1/2" IW DISH MACHINE IW TO FS; PROVIDE AIR GAP <t< td=""><td>P19</td><td>3/4" (3 EA)</td><td>NG</td><td>FRYER</td><td>WALL</td><td>24"</td><td>BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0; 122.0 MBTU EACH</td></t<>	P19	3/4" (3 EA)	NG	FRYER	WALL	24"	BTC: THRU GAS HOSE PROVIDED BY KEC; REFER 2/FS4.0; 122.0 MBTU EACH
P26.11-1/2"DWHAND SINKWALL20"P27.31"NGMAKE UP AIR HEATERTBDVERIFY 306.0 MBTUP281/2"CWICE MAKERWALL66"VERIFY WITH PROVIDER - NOT BY KECP28.11"IWICE MAKERW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP321/2"HW & CWHAND SINKWALL18"P32.11-1/2"DWHAND SINKWALL20"P351/2"HW & CWFAUCETWALL18"P35.11-1/2" (3IWSINKIW TO FS; PROVIDE AIR GAPP371/2"HW & CWDISH MACHINEWALL18"VERIFY WITH PROVIDER - NOT BY KECP381/2"HW & CWDISH MACHINEIW TO FS; PROVIDE AIR GAPP38.11-1/2"IWDISH TABLEIW TO FS; PROVIDE AIR GAPP40.11-1/2"IWDISH TABLEIW TO FS; PROVIDE AIR GAPP411/2"CWSINKWALL18"P421/2"CWCOFFEE BREWERWALL20"P441/2"CWDISPENSERWALL48"VERIFY WITH PROVIDER - NOT BY KECP441/2"CWDISPENSERWALL48"VERIFY WITH PROVIDER - NOT BY KECP44.11"IWDISPENSERIW TO FS; PROVIDE AIR GAP.P44.11/2"CWDISPENSER	P24.1	3/4" (3 EA)	IW	HOT FOOD WELLS			IW TO FS; PROVIDE AIR GAP
P27.31"NGMAKE UP AIR HEATERTBDVERIFY 306.0 MBTUP281/2"CWICE MAKERWALL66"VERIFY WITH PROVIDER - NOT BY KECP28.11"IWICE MAKERIW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP321/2"HW & CWHAND SINKWALL18"P311-1/2"DWHAND SINKWALL20"P351/2"HW & CWFAUCETWALL18"P35.11-1/2" (3IWSINKIW TO FS; PROVIDE AIR GAPP371/2"HW & CWDISH MACHINEWALL18"VERIFY WITH PROVIDER - NOT BY KECP37.11"IWDISH MACHINEIW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP38.11-1/2"IWDISH MACHINEIW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP38.11-1/2"IWDISH TABLEIW TO FS; PROVIDE AIR GAPP401/2"HW & CWSINKWALL18"P40.11-1/2"DWSINKWALL18"P411/2"CWCOFFEE BREWERWALL48"P421/2"CWCOFFEE BREWERWALL48"P44.11/2"CWDISPENSERP44.11/2"CWDISPENSERP44.11"IWDISPENSERP44.11"WDISPENSER	P26	1/2"	HW & CW	HAND SINK	WALL	18"	
P281/2"CWICE MAKERWALL66"VERIFY WITH PROVIDER - NOT BY KECP28.11"IWICE MAKERIW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP321/2"HW & CWHAND SINKWALL18"P32.11-1/2"DWHAND SINKWALL20"P35.11/2"HW & CWFAUCETWALL18"P35.11/2"HW & CWFAUCETWALL18"P37.11/2"HW & CWDISH MACHINEWALL18"P37.11/2"HW & CWDISH MACHINEWALL18"P37.11"IWDISH MACHINEP381/2"HW & CWFAUCETWALL18"P37.11"IWDISH TABLEIV TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP381/2"HW & CWSINKWALLP401/2"HW & CWSINKWALLP411/2"DWSINKWALL18"P441/2"CWCOFFEE BREWERWALL48"P441/2"CWDISPENSERP441/2"CWDISPENSERP441/2"IWDISPENSERP4011"IWDISPENSERP411/2"GWDISPENSERP421/2"IWDISPENSERP441/2"IW <td>P26.1</td> <td>1-1/2"</td> <td>DW</td> <td>HAND SINK</td> <td>WALL</td> <td>20"</td> <td></td>	P26.1	1-1/2"	DW	HAND SINK	WALL	20"	
P28.11"IWICE MAKERIW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP321/2"HW & CWHAND SINKWALL18"P35.11-1/2"DWHAND SINKWALL20"P351/2"HW & CWFAUCETWALL18"P35.11-1/2" (3 EA)IWSINKP371/2"HW & CWDISH MACHINEWALL18"P37.11"IWDISH MACHINEWALL18"P381/2"HW & CWDISH MACHINEP381/2"HW & CWFAUCETWALL18"P38.11-1/2"IWDISH MACHINEP401/2"HW & CWFAUCETWALL18"P40.11-1/2"IWDISH TABLEIW TO FS; PROVIDE AIR GAPP401/2"HW & CWSINKWALL18"P40.11-1/2"DWSINKWALL20"P411/2"CWTEA BREWERWALL48"P421/2"CWDISPENSERWALL48"P44.11"IWDISPENSERP441/2"CWDISPENSERP44.11"IWDISPENSERP411-1/2"IWBAR EQUIPMENTP101-1/2"IWBAR EQUIPMENTP101-1/2"IWBAR FAUCETS<	P27.3	1"	NG		TBD		VERIFY 306.0 MBTU
P32 1/2" HW & CW HAND SINK WALL 18" P32.1 1-1/2" DW HAND SINK WALL 20" P35 1/2" HW & CW FAUCET WALL 18" P35.1 1-1/2" (3 EA) IW SINK IW TO FS; PROVIDE AIR GAP P37 1/2" HW & CW DISH MACHINE WALL 18" VERIFY WITH PROVIDER - NOT BY KEC P37.1 1" IW DISH MACHINE IW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KEC P38 1/2" HW & CW FAUCET WALL 18" P38.1 1-1/2" IW DISH TABLE IW TO FS; PROVIDE AIR GAP P40 1/2" HW & CW SINK WALL 18" P40.1 1-1/2" DW SINK WALL 20" P41 1/2" CW TEA BREWER WALL 48" VERIFY WITH PROVIDER - NOT BY KEC P42 1/2" CW COFFEE BREWER	P28	1/2"	CW	ICE MAKER	WALL	66"	VERIFY WITH PROVIDER - NOT BY KEC
P32.11-1/2"DWHAND SINKWALL20"P351/2"HW & CWFAUCETWALL18"P35.11-1/2" (3 EA)IWSINKIW TO FS; PROVIDE AIR GAPP371/2"HW & CWDISH MACHINEWALL18"VERIFY WITH PROVIDER - NOT BY KECP37.11"IWDISH MACHINEIW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP381/2"HW & CWFAUCETWALL18"P38.11-1/2"IWDISH TABLEIW TO FS; PROVIDE AIR GAPP401/2"HW & CWSINKWALL18"P40.11-1/2"DWSINKWALL20"P411/2"CWCOFFEE BREWERWALL20"P441/2"CWCOFFEE BREWERWALL48"VERIFY WITH PROVIDER - NOT BY KECP441/2"CWDISPENSERWALL48"VERIFY WITH PROVIDER - NOT BY KECP44.11"IWDISPENSERIW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP44.11"IWDISPENSERIW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP401-1/2"IWBAR EQUIPMENTIW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KECP1011-1/2"IWBAR EQUIPMENTIW TO FS; PROVIDE AIR GAPP1021/2"HW & CWBAR FAUCETSWALL12"	P28.1	1"	IW	ICE MAKER			IW TO FS; PROVIDE AIR GAP: VERIFY - NOT BY KEC
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P100VERIFYFDWALK INFLOORP1011-1/2"IWBAR EQUIPMENTIW TO FS; PROVIDE AIR GAPP1021/2"HW & CWBAR FAUCETSWALL12"					VVALL	10	
P101 1-1/2" IW BAR EQUIPMENT IW TO FS; PROVIDE AIR GAP P102 1/2" HW & CW BAR FAUCETS WALL 12"		-					IV TO FS, FROVIDE AIR GAF. VERIFT - NOT DT REG
P102 1/2" HW & CW BAR FAUCETS WALL 12"							IW TO ES: PROVIDE AIR GAP
						 12"	
P109 1/2" HW & CW BAR DISHMACHINE - WALL 12" VERIFY REQUIREMENTS - NOT BY KEC NOT BY KEC	P102	1/2"	HW & CW	BAR DISHMACHINE -	WALL	12"	VERIFY REQUIREMENTS - NOT BY KEC

PLUMBING SYMBOLS									
	FS	3/4 GRATE FLOOR SINK	G	G	GAS SUPPLY				
	FS	1/2 GRATE FLOOR SINK	٥G	G	GAS SUPPLY STUB-UP				
	FS	FULL GRATE FLOOR SINK	\odot	IW	INDIRECT WASTE (PROVIDE AIR GAP)				
O	FD	FLOOR DRAIN		DW	DIRECT WASTE				
©	CW	COLD WATER	\odot	FFD	FUNNEL FLOOR DRAIN				
(\mathbb{H})	НW	HOT WATER	0	C WI	CHILLED WATER INLET				
©	CW	COLD WATER STUB-UP		CWO	CHILLED WATER OUTLET				
сĤ	Н₩	HOT WATER STUB-UP		AFF	ABOVE FINISHED FLOOR				
0	SI	STEAM INLET		BTC	BRANCH TO CONNECTION				
\odot	SO	STEAM OUTLET		DFA	DROP FROM ABOVE				

PLUMBING NOTES
ATER & DRAIN CONNECTIONS INDICATED ARE THOSE REQUIRED FOR THE FOOL LUMBING ENGINEER'S DRAWINGS
RAIN LINE TO BE ROUTED BY WALK IN SUPPLIER. WI SUPPLIER TO FURNISH AN
RAINAGE AND PIPING SYSTEMS TO BE CLEANED BY G.C. PRIOR TO FINAL CONN
NGINEER TO VERIFY W/ LOCAL CODE TO BYPASS OR PIPE THRU GREASE TRAP /
' W.C. AT EQUIPMENT. MECHANICAL GAS SHUT-OFF VALVE FURNISHED BY HOOI F MECHANICAL GAS VALVE BY G.C.
LL EXPOSED FIRE SYSTEM PIPING TO BE CHROME PLATED OR STAINLESS STEE
ROTECTIVE DEVICES TO PROTECT AGAINST BACK FLOW. BACK SYPHONAGE SH ACKFLOW AND/OR BACKSYPHONAGE MAY OCCUR AND WHERE A MINIMUM AIR (R EQUIPMENT AND ITS FLOOD/LEVEL RIM. TO BE PROVIDED AND INSTALLED BY HALL OVERRIDE ABOVE, IF ACCEPTABLE WITH APPLICABLE CODES, BUT G.C. TO /ATER FILTER TO EQUIPMENT BY G.C.
ACKFLOW PREVENTION BY G.C.

S

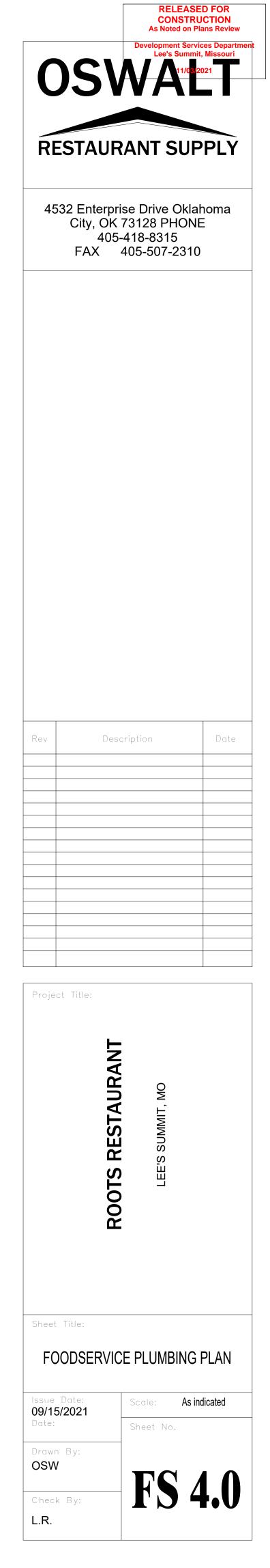
ODSERVICE EQUIPMENT. FOR ADDITIONAL REQUIREMENTS REFER TO

ND INSTALL HEAT TAPE IN FREEZER SECTION INECTION TO FOODSERVICE EQUIPMENT

P AND/OR INTERCEPTOR.

OD SUPPLIER. FINAL CONNECTION TO EQUIPMENT AND INSTALLATION

SHALL BE INSTALLED AT ALL FIXTURES AND EQUIPMENT WHERE R GAP CANNOT BE PROVIDED BETWEEN THE WATER TO THE FIXTURE Y G.C. VACUUM BREAKERS, WHEN FURNISHED WITH EQUIPMENT, TO PIPE WHEN NOT PREPIPED BY FACTORY. INTERCONNECT THRU



WALK - IN SPECIFICATIONS

(NSF)

Cooler/Freezer Combo OVERALL SIZE: 18'-6" X 7'-0" X 9'-0 1/4" (INDOOR)

PANELS FOAMED IN PLACE URETHANE FOAM 4"

EXTERIOR FINISH WALL: GALVALUME - EMBOSSED 26 GA TOP: GALVALUME - EMBOSSED 26 GA FLOOR: GALVALUME - EMBOSSED 26 GA

INTERIOR FINISH WALL: GALVALUME - EMBOSSED 26 GA TOP: GALVALUME - EMBOSSED 26 GA

FLOOR TYPE F01 FREEZER : STANDARD 1000# ERA ALUMINUM - SMOOTH ALUMINUM .100

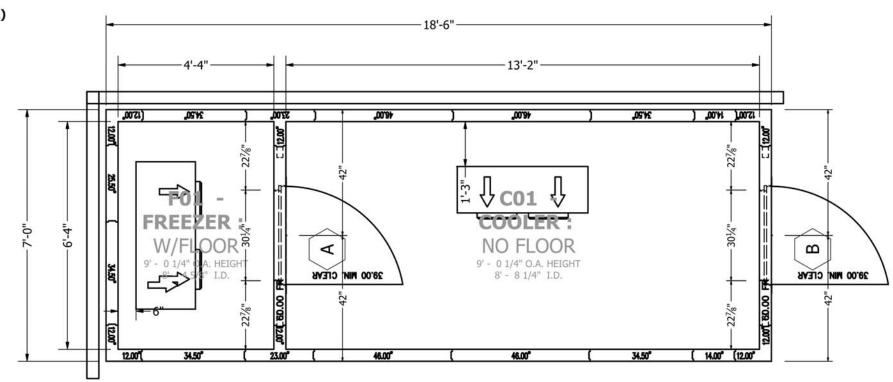
C01 COOLER : SCREED, VINYL 4" X 4" HIGH

WALK-IN ACCESSORIES

NONE REFRIGERATION

F01 FREEZER : KPC149LOP-2E, R404A, VOLTS: 208-230-60-1,BTU:3716 KASLE25-46-2EC-PR-4 VOLTS: 208-230-60-1,BTU:5000 TEMP: WALK-IN -10,AMBIENT TEMP: 90

C01 COOLER : KPC99MOP-2E, R404A, VOLTS: 208-230-60-1,BTU:9740 KAM26-094-1EC-PR-4 VOLTS: 115-60-1,BTU:9547 TEMP: WALK-IN 35,AMBIENT TEMP: 90



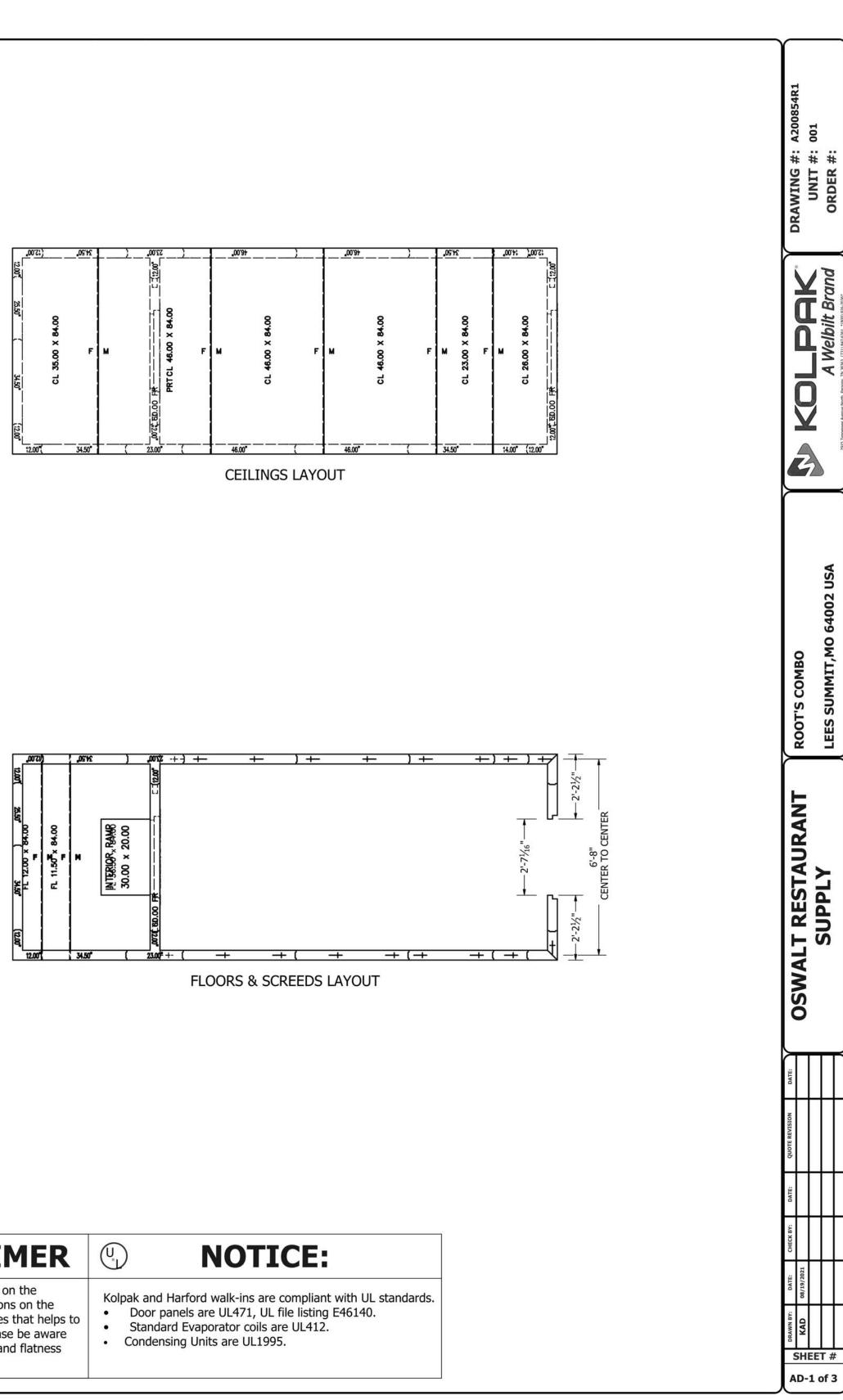
WALLS LAYOUT

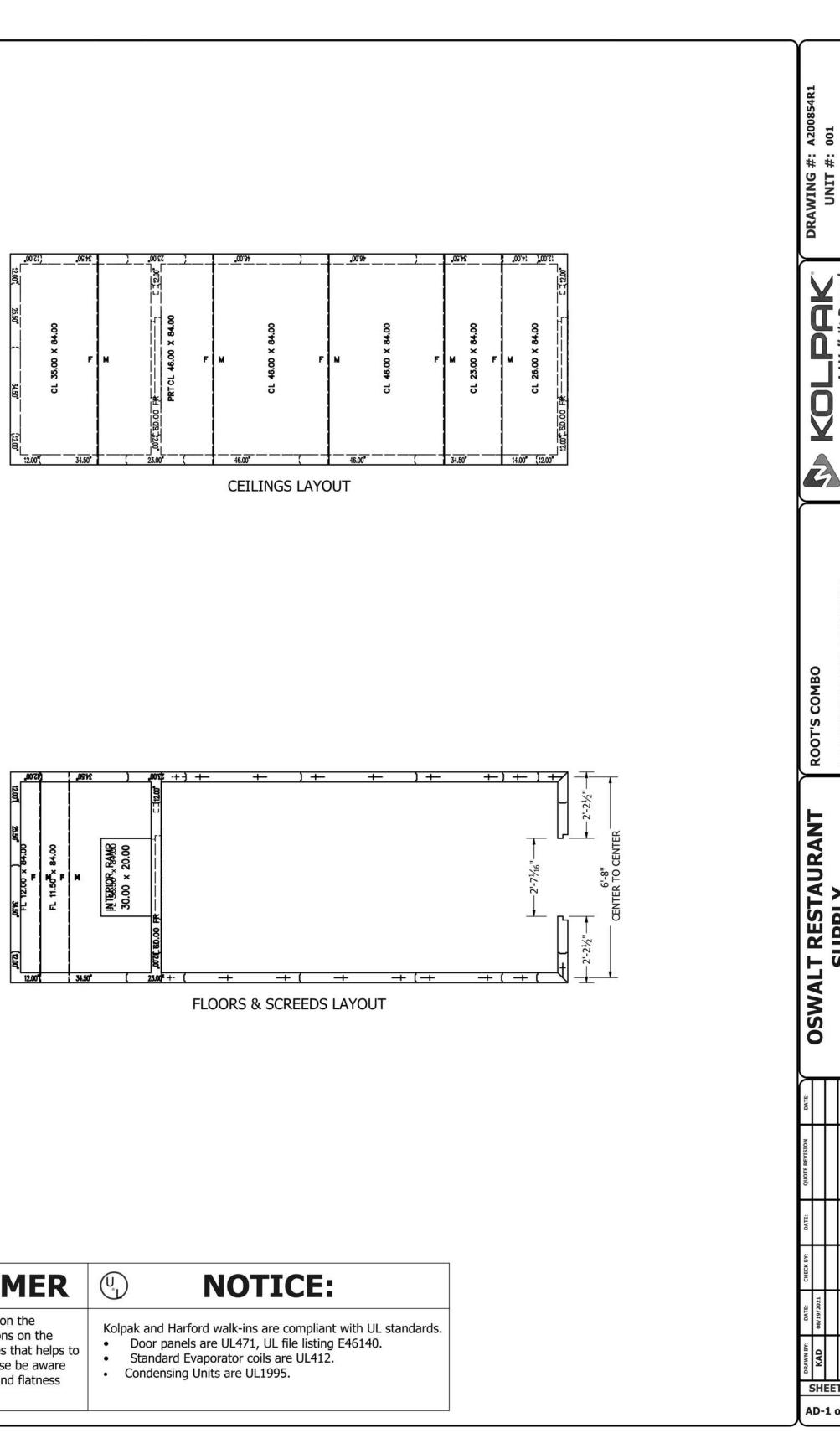
AS-BUILT DRAWING FOR INSTALLATION WILL BE AVAILABLE AFTER ORDER IS PLACED. HARD COPY OF AS-BUILT DRAWING WILL BE IN HARDWARE BOX WITH WALK-IN SHIPMENT TO JOBSITE. ALL AS-BUILT DRAWINGS SHOW PART NUMBERS AND ID LABELS ON PLAN VIEWS.

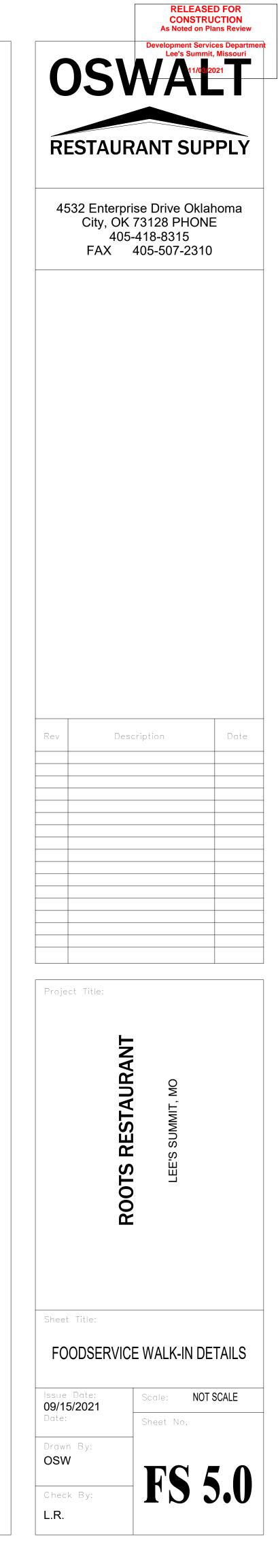
BOX WITH WALK-IN SHIPMENT TO JOBSITE. ALL AS-BUILT DRAWINGS SHOW PART NUMBERS AND ID LABELS ON PLAN VIEWS.
2. ALL WALK-INS ARE DESIGNED FOR INDOOR APPLICATION UNLESS NOTED OTHERWISE
3. PENETRATIONS AND SEALING OF ARE THE RESPONSIBILITY OF OTHERS
4. ALLOW 2" MINIMUM CLEARANCE WITH AIRFLOW OF 5 CFM PER 100 SQ FT AROUND ENTIRE PANEL SURFACES. INDOOR WALK-INS REQUIRE A 75°F AMBIENT AND 55% RELATIVE HUNDITY OR LESS AROUND THE EXTERIOR OF THE WALK-IN.
5. GENERAL CONTRACTOR TO REFER TO DESIGN AND SPECIFICATION MANUAL FOR FLOOR DETAIL INFORMATION
6. QUARRY TILE OR CONCRETE FLOOR APPLICATIONS: METAL PANEL FACING MAY BE SUSCEPTIBLE TO STAINING DUE TO EXCESSIVE MOISTURE CREATED BY THE HYDRATION OF CONCRETE TYPE MATERIALS. IT IS ABSOLUTELY NECESSARY THAT EACH ROOM BE PROPERLY VENTILATED. SPECIAL PRECAUTIONS MUST ALSO BE TAKEN WHEN USING MURIATIC ACID DUE TO EFFECTS HYDROCHLORIC FUMES HAVE ON METAL MATERIALS
7. PANEL LAYOUT MAY CHANGE BASED ON OPTIMAL MANUFACTURING STANDARDS
8. WALK-IN TOP IS NOT DESIGNED FOR FOOT TRAFFIC OR STORAGE UNLESS NOTED OTHERWISE
9. IF CONDENSING UNIT IS LOCATED IN THE INTERIOR OF BUILDING A MINIMUM OF 24' OF CLEARANCE IS REQUIRED AROUND TOP AND SIDES
10. FLOOR, CURB, AND PIT DETAILS ARE FOR GENERAL REFERENCE ONLY. THESE DRAWINGS SHOULD NOT BE USED OR INCORPORATED IN THE DESIGN OR PREPARATION OF THE INSULATED FLOOR, SUB-SLAB OR CURBS, WITHOUT HAVING THE DESIGN REVIEWED BY A QUALIFIED ENGINEER. ALL FOOTINGS, FOUNDATION WALLS AND CONCRETE WEAR SLABS ARE THE RESPONSIBILITY OF THE BUILDING ENGINEER OR ARCHITECT.
11. THE FOAM PLASTIC USED IN THIS PRODUCT COMPLIES TO THE IBC SECTION 2603 AS FOLLOWS: FLAME SPREAD RATING: 20; SMOKE DEVELOPED RATING: 450; FLASH IGNITION TEMPERATURE RATING: 915°F; SPONTANEOUS IGNITION TEMPERATURE RATING: 950°F.
12. R-VALUES MEET DOE REQUIREMENTS AND ARE ASTM CS18 TESTED. COOLER R-VALUES ARE R-29 FOR 4" THICK, R-36 FOR 5" THICK, AND R-44 FOR 6S THICK PANELS. REDEZER R-V

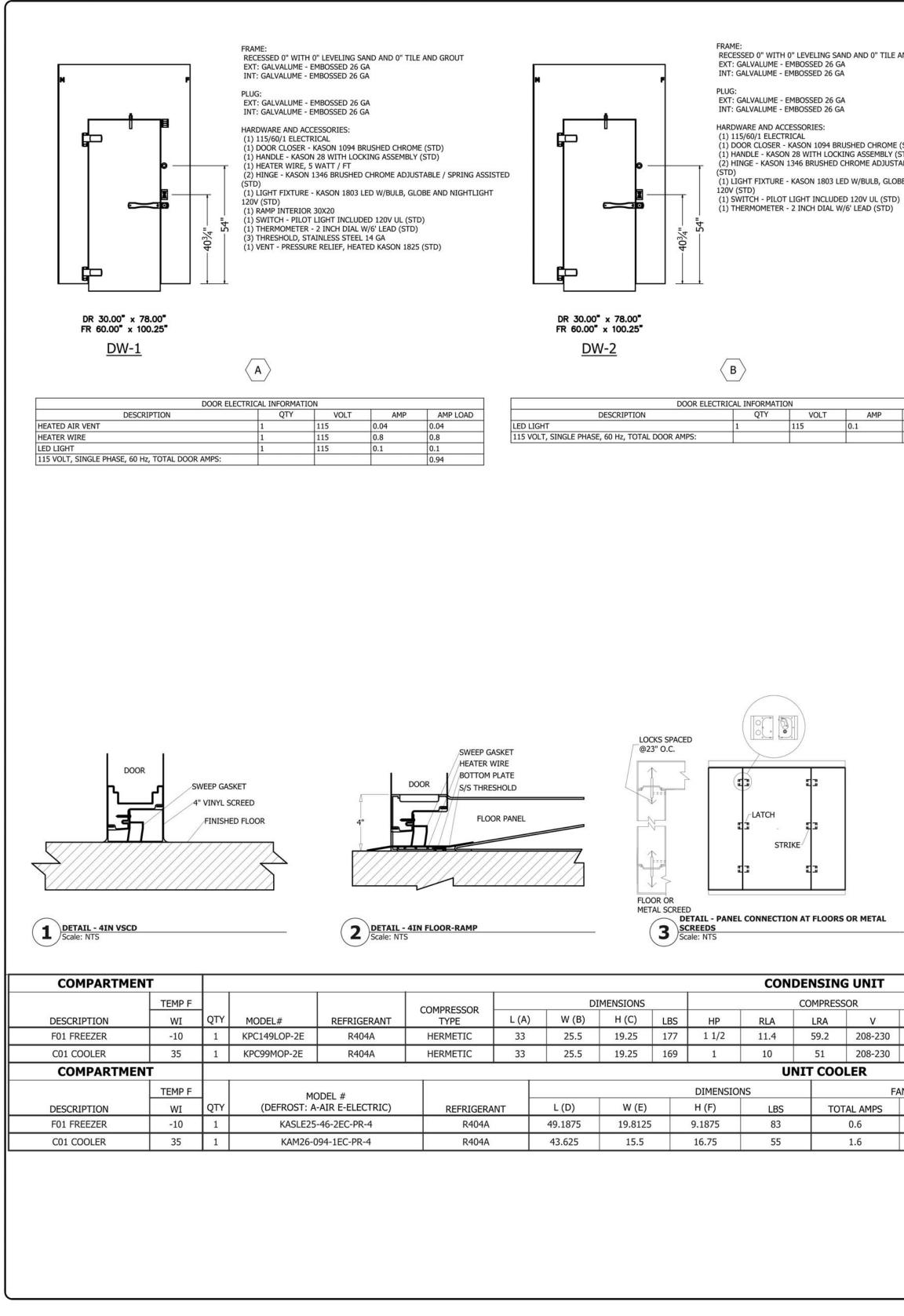
FOR APPROVAL YOU MUST REVIEW ALL NOTES, DETAILS, DIMENSIONS, FINISHES, DOORS SIZES, LOCATIONS AND SWINGS		
APPROVAL- NO CHANGE REQUIRED, MANUFACTURE AS	SMOOTH FINISH DISCLAIMER	NOTICE:
APPROVED AS NOTED- MAKE REQUIRED CHANGES AND MANUFACTURE AS DRAWN. NOT APPROVED- DESIGN CHANGES REQUIRE DRAWING REVISION AND RESUBMISSION.	Panels with non-textured and/or no-profile panel finishes (smooth finishes) on the exterior and interior faces may exhibit "oil canning" and flatness imperfections on the surface. Our standard panels have a stucco embossed texture on both faces that helps to reduce oil canning and any other irregularities in the exposed surface. Please be aware of this potential situation in your specification process. Such "oil canning" and flatness issues are typical and are not covered under standard warranties.	 Kolpak and Harford walk-ins are compliant with UL standards. Door panels are UL471, UL file listing E46140. Standard Evaporator coils are UL412. Condensing Units are UL1995.

. SUBMITTAL DRAWING NOT INTENDED FOR INSTALLATION.









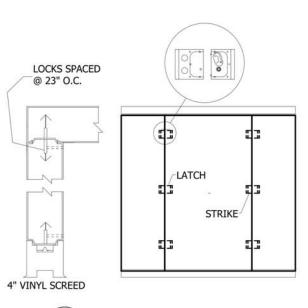
RECESSED 0" WITH 0" LEVELING SAND AND 0" TILE AND GROUT

(1) 115/60/1 ELECTRICAL
(1) DOOR CLOSER - KASON 1094 BRUSHED CHROME (STD)
(1) HANDLE - KASON 28 WITH LOCKING ASSEMBLY (STD)
(2) HINGE - KASON 1346 BRUSHED CHROME ADJUSTABLE / SPRING ASSISTED

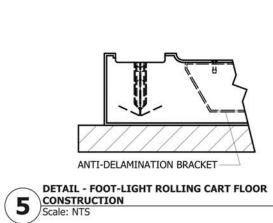
(1) LIGHT FIXTURE - KASON 1803 LED W/BULB, GLOBE AND NIGHTLIGHT

(1) THERMOMETER - 2 INCH DIAL W/6' LEAD (STD)

AMP AMP LOAD



4 DETAIL - PANEL CONNECTION AT 4IN VINYL SCREEDS Scale: NTS



COVER PLATE \gg THERMAL RESISTIVE CONDUIT SUCH AS SCHEDULE 40 PVC. *NOTE* FOR OUTDOOR WALK-IN, DO NOT PENETRATE CEILING PANELS. 6 DETAIL - ELECTRICAL CONDUIT PENETRATION Scale: NTS

													-		
CON	DENSING	G UNIT											CONDENSING UNIT	T ASSEMBLY	
.7	COMPRESS		CONDEN	CONDENSER FAN MTR		TOTAL	MX AMP	CONNECTIONS O.D.		RCV CAP					
RLA	LRA	v	HZ	Φ	FLA	v	Φ	AMPS	DISC	SUCT	LIQ	@ 90% FULL (lbs)	AIR INLET B		
11.4	59.2	208-230	60	1	1.1	208-230	1	12.6	25	7/8	3/8	10.4			
10	51	208-230	60	1	1.2	208-230	1	11.4	20	5/8	3/8	10.4			
UNIT COOLER														C C	
S FAN					HEATER				CONNECTIONS O.D.			L' L'	X		
LBS	LBS TOTA		v	5	то	TOTAL AMPS V		V	Φ	SUCT	LIQ	DRAIN	A SUCTION AND LIQUID LINE		××
83	0.6		208-2	230		5.7		208-230	1	7/8	3/8	7/8			
55		1.6	115	5		0 N/		N/A	0	5/8	3/8	3/4	EVAPORATOR - MODEL SL	A, SLE, ASLA, ASLE, TL	+
															+
													D CLIQUID CONNECTION (IN REAL SUCTION CONNECTION (IN REAL	(27) Strengther Constraint Strengther Constraints (Strengther Constraint)	

