

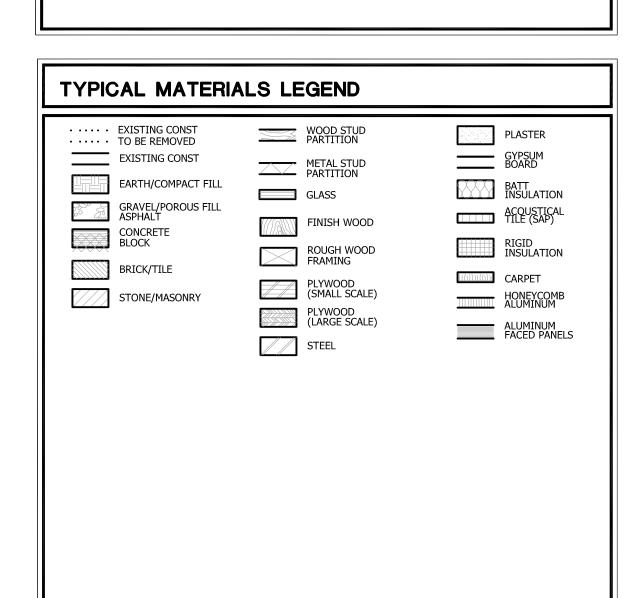
ARCHITECTURAL ALLEN BELOT ARCHITECT 708 W. 9th St, Suite 205 Lawrence, Kansas 66044 v. (785) 843-4670 f. (785) 843-4842 Contact: Allen Belot E-mail: allen@allenbelotarchitect.com A001 - COVER SHEET, CODE ANALYSIS, CODE FOOTPRINT, ABBREVIATIONS A110 - DEMOLITION PLAN, CONSTRUCTION PLAN, ENTRY ELEVATION, CONSTRUCTION DETAILS A112 - POWER PLAN, REFLECTED CEILING PLAN, ROOF PLAN A300 - ENLARGED RESTROOM PLANS, RESTROOM INTERIOR ELEVATIONS MECHANICAL ELECTRICAL & PLUMBING **CKEC Engineers** Central Kansas Engineering Consultants 17 West 5th Avenue Emporia, Kansas 66801 p 620.344.1396 Contact: Dustin Oates E-mail: dustin@ckec-design.com PLUMBING POWER & LIGHTING **MECHANICAL**

INDEX TO DRAWINGS

TYPICAL GRAPHIC SYMBOLS DETAIL REFERENCE COLUMN REFERENCE DETAIL REFERENCE ----- CENTER LINE RESTROOM ACCESSORY ROOM NAME ROOM NUMBER ELEVATION DESIGNATION DRAWING REFERENCE NOTE DOOR NUMBER (100.1) WINDOW/GLAZING

(ALT.# 3)

SYSTEM DESIGNATION



INDEX TO ABBREVIATIONS

anchor bolt

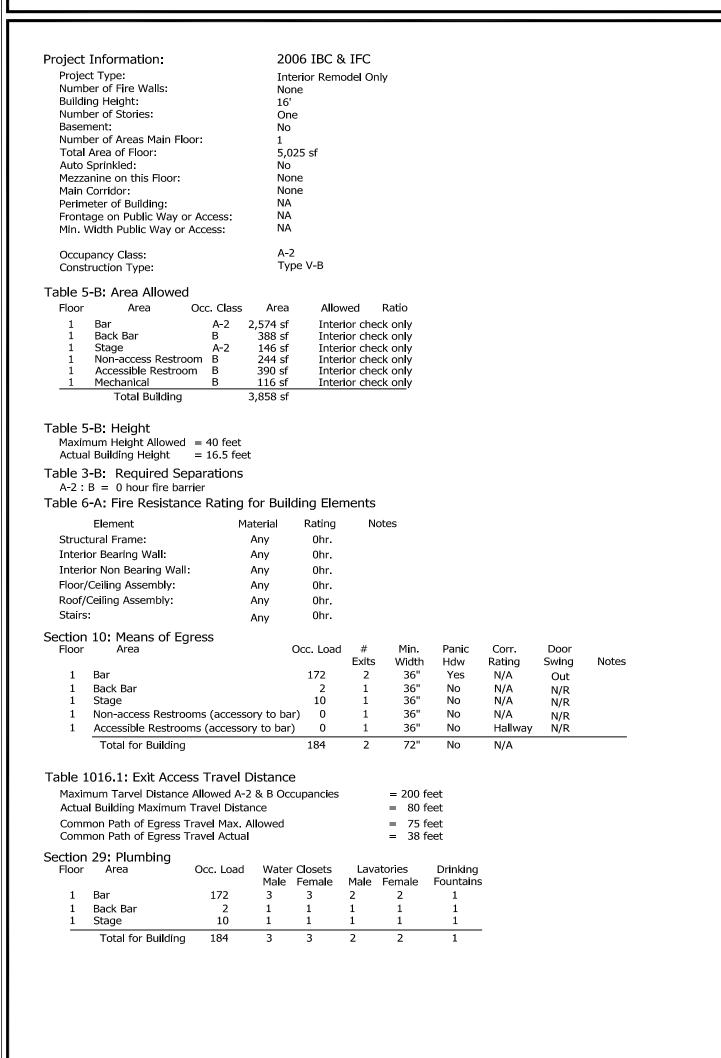
ABC	anchor boil	FFL	finish floor finished floor line	PL -	plate
AC AC	aggregate base course air conditioning	FGRG	fiberglass-reinforced gypsum	PL	property line
ACOUST	acoustic(al)	FH	flat head	PLAM	plastic laminate
ACP	asphaltic concrete paving	FIN	finish(ed)	PLAS	plaster
ADJ	adjacent	FIXT		PLUMB	plumbing
	_		fixture	PLYWD	plywood
AFF	above finish floor	FLR	floor(ing)	PR	pair
AGG	aggregate	FPT	factory painted	PT	point/paint
ALT	alternate	FR	fire resistive	PTN	partition
ALUM	aluminum	FRMG	frame(ing)		
ANC	anchor,anchorage	FRP	fiber-reinforced plastic	QΤ	quarry tile
APPROX	approximate	FT	foot/feet	QTR	quarter
ARCH	architectur(al)	FTG	footing		
ASPH	asphalt	FUT	future	R	radius
		FWC	fabric wall covering	R/RIS	riser
BD	board			RB	rubber base
BITUM	bituminous	GA	gage/gauge	RE	reference
BK/PV	brick pavers	GAL	gallon	REC	recommend(ations)
BLDG	building	GALV	galvanized	REINF	reinforced(ing)
BLK	block	GC	general Contractor	REQD	required
BLKG	blocking	GCMC	glazed concrete masonry unit	RET	retaining
ВМ	beam	GCT	glazed ceramic tile	RFG	roofing
ВМ	benchmark	GEN	general	RM	room
ВО	by others	GL	glass/glazing	RO	rough opening
BOT	bottom	GR	grade	ROW	right of way
BRCH	birch	GYPBD/GB	gypsum board	RT	rubber tile
BRG	bearing			RTG	rating
BS	both sides	HARDWD	hardwood		3
BSMT	basement	НВ	hose bib	SAP	suspended acoustical panel
BTWN	between	HC	handicapped	SAT	suspended acoustical tile
		HC	hollow core	SC	solid core
C/PV	concrete pavers	HDBD	hardboard	SCHED	schedule
CIP	cast in place	HDR	header	SEC	section
CAB	cabinet	HORIZ	horizontal	SF	square foot/feet
CARP	carpet	HT	height	SHT	sheet
CHRY	cherry	HTG	heating	SIM	similar
CHNL	channel	HTR	heater	SPDRL	spandrel
CI	cast iron			SPEC	specification(s)
CIR	circle	ID	inside diameter		square
CJT	control joint	INCL	include(d)(ing)	SQ SS	stainless steel
CLG	ceiling	INSL	insulate(d)(ion)	STA	station
CL	centerline	INT	interior/intermediate	STD	standard
CLR	clear(ance)		,	ST/PV	stone pavers
CMU	concrete masonry unit	JST(s)	joists	ST/TL	stone tiles
COL	column	JT(s)	joint(s)	STIFF	stiffener
CONC	concrete	(-)	, (-)	STL	steel
CONN	connection	KIT	kitchen	STN	stain/seal
CONST	construction			STOR	storage
CONT	continuous	LAM	laminated		
CR	cold rolled	LAT	lateral	STRUCT SUPPL	structural
CT	ceramic tile	LAV	lavatory		supplied(er)
CTSK	countersink	LT	light	SUSP	suspended
CUFT	cubic foot	LTWT	light weight	SYM	symmetrical
0011	cable 100t	21001	light Weight	SYST	system
DBL	double	MAS	masonry	-	to and
DEPT	department	MAX	maximum	T	tread
DF	drinking fountain	MBR	member	T&B	top & bottom
DIA	diameter	MC	mechanical Contractor	T&G	tongue & grooved
DIAG	diagonal	ME	mechanical engineer	T.O.	top of
DIM	dimension	MECH	mechanic(al)	TEL	telephone
DISP	dispenser	MFG(R)	manufacture(r)(d)	TEMP	tempered/temporary
DISI	down	MH	manhole	THK	thickness
DR	drain/door	MIN	minimum	THLD	threshold
DS	downspout	MISC	miscellaneous	TS	tube section
DTL	detail	MLD	molding/moulding	TVD	television
DWG	drawing	MO	masonry opening	TYP	typical
I	a. arming	MPTN	movable partition system	LINIT	unfinished
Е	existing	MS	metal stud	UNF	unfinished
EA	each	MTD	mount(ed)	UON	unless otherwise noted
EB	expansion bolt	MTG	meeting	3.74 B	
EC	electrical Contractor	MTL	material(s)	VAR	varies
EE	electrical contractor electrical engineer	MTL	metal	VCT	vinyl composition tile
EJ	expansion joint	IMI L	metai	VERT	vertical
ELEC	expansion joint electrical	N	north	VEST	vestibule
ELEC/EL	electrical elevation	NTS	north not to scale	VIF	verify in field
ELEV/EL ENCL	elevation enclosure	NIS NIC		VWC	vinyl wall covering
ENCL ENGR		NIC NO	not in contract	v = -	
	engineer(ed)		number	W	wide flange beam
EQ EQUITE	equal	NONCOM	non-combustible	W/	with
EQUIP ES	equipment each side	OC	on contor(s)	W/O	without
ES EWC		OC OD	on center(s)	WC	water closet
EWC	electric water cooler	OFF	outside diameter	WD	wood
EXH	exhaust		office	WDW	window
EXP	expansion	OPNC	overhead	WH	water heater
EXPSD	exposed	OPNG OPR	opening	WI	wrought iron
EXT	exterior	OPP	opposite	WRT	with respect to
EXSTG	existing	OPTN	operable partition system	WSCT	wainscot
FBK	face brick			WT	weight
FBGL	fiberglass	PARTBD	particle board	WWF	welded wire fabric
	floor drain	PC	precast	WWM	welded wire mesh
FD FDN	foundation	PC/TL PERP	porcelain ceramic tile		
1		PERP	perpendicular		
1					
		PFAB	prefabricate(d)		

GENERAL NOTES

1.	Contractor shall be governed by the currently adopted edition of all codes and regulations having jurisdiction over aspects of this construction project.
2.	Construction of this project shall be governed by the following national codes: 2006 International Building Code (IBC) 2006 International Fire Code (IFC) 2006 Uniform Plumbing Code (UPC) 2012 International Mechanical Code (IMC) 2005 National Electric Code (NEC) AND 2004 Americans With Diabilities Act Accessibility Guidelines Kansas Fire Prevention Code
3.	Written dimensions and existing conditions shall be verified in the field by the General Contractor and/or his Sub-Contractors. Do not scale drawings. If further clarification is required, contact Architect and provide him with field dimensions as to assist him with his clarification.
4.	Any discrepancy in dimensions and/or drawings and/or field measurements shall be brought to the attention of the Architect prior to the commencement of any work.
5.	These drawings and specifications are the property and copyright of the Architect and shall not be used on any other work except by prior written agreement with the Architect.
6.	Duty of Cooperation: Release of these plans anticipates further cooperation among the Owner, General Contractor, and Architect. Although the Achitect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Any ambiguity or discrepancy discovered shall be reported immediately to the Architect. Failure to cooperate by a simple notice to the Architect shall not relieve the Contractor from responsibility for all consequences. Changes made from the plans without the consent of the Architect are unauthorized, and shall relieve the Architect of responsibility for all consequences arriving out of such changes.
7.	Plans reflect the final building configuration. Demolition, site clearing, site work, etc. shall be coordinated with the plans prepared by the Ower's separate consultant and are to be performed as required. No inference is made in the construction drawings that follow that all existing conditions are shown or all demolition noted. Contractor shall field confirm these construction documents with those prepared by the Owner's separate consultant's and the existing conditions.

- 8. All products shall be installed per manufacturer's recommendations.
- 9. All work shall be in accordance with "General Conditions of the Contract for Construction A.I.A. Document A201" and other Contract Documents.
- 10. The Contract for Construction with the Owner shall be governed by "General Conditions of the Contract for Construction A.I.A. Document A201" and other Contract Documents.
- 11. The Contractor shall include any work required to make the end result building operative and occupiable. If equipment, material and/or intent are not detailed in drawings or specifications but are obviously required as industry standard for operative conditions, this work shall be included in base bid. If the Owner does not accept the Contractor's selection, the additional cost (to the Contractor) of that equipment or materials chosen by the Owner will be offset by Change Order.
- 12. Do not use cadmium or cadmium plated products or products containing cadmium for work in place.
- 13. Do not use asbestos or asbestos containing products for work in place. Contractor shall not cut, drill, remove, or otherwise disturb any material, equipment, construction, etc., if it is thought to contain any hazardous material. If material, equipment, construction, etc., is encountered which appears to, or is likely to contain hazardous materials, notify Owner immediately.
- 14. Do not use lead or lead containing products for work in place. Contractor shall not cut, drill, remove, or otherwise disturb any material, equipment, construction, etc., if it is thought to contain any hazardous material. If material, equipment, construction, etc., is encountered which appears to, or is likely to contain hazardous materials, notify Owner immediately.
- 15. Electrical equipment shall be certified as containing no PCB's.
- 16. Typographical errors or errors of spelling shall be brought to the Architect's attention for clarification. Interpretaion of the meaning of mistyped or misspelled words without clarification from the Architect will be done by the Contractor with acceptance of responsibility for that interpretation and all consequences arriving therefrom.
- 17. Note: All dimensions to face of masonry, center line of structural steel or face of stud, typ. u.o.n. All masonry dimensions indicated are nominal dimensions.
- The term "provide" as used herein shall mean that Contractor shall furnish and install construction, equipment, etc., for a complete, finished installation.
 The Contractor shall be responsible for coordination of all trades doing work and coordination with Only 19.
- The Contractor shall be responsible for coordination of all trades doing work and coordination with Owner and Owner's sub-Contractors regarding installation and provision for all equipment, materials and construction indicated "by Owner" or "by others" on these documents.
- All existing areas outside of contract limits are fully finished and beyond the jurisdiction of this contract. Contractor shall take all precautions necessary to protect these areas from damage, debris and other deleterious effects caused by construction. Any areas affected by this construction shall be restored to original condition as required at completion of project.

BUILDING CODE ANAYSIS



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RICKYARD REMODEL 402 MERCHANT EMPORIA, KANSAS

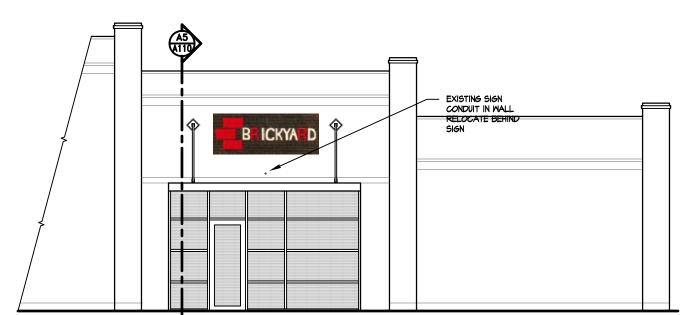
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REVISIONS:

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CODE
FOOTPRINT &
ANALYSIS

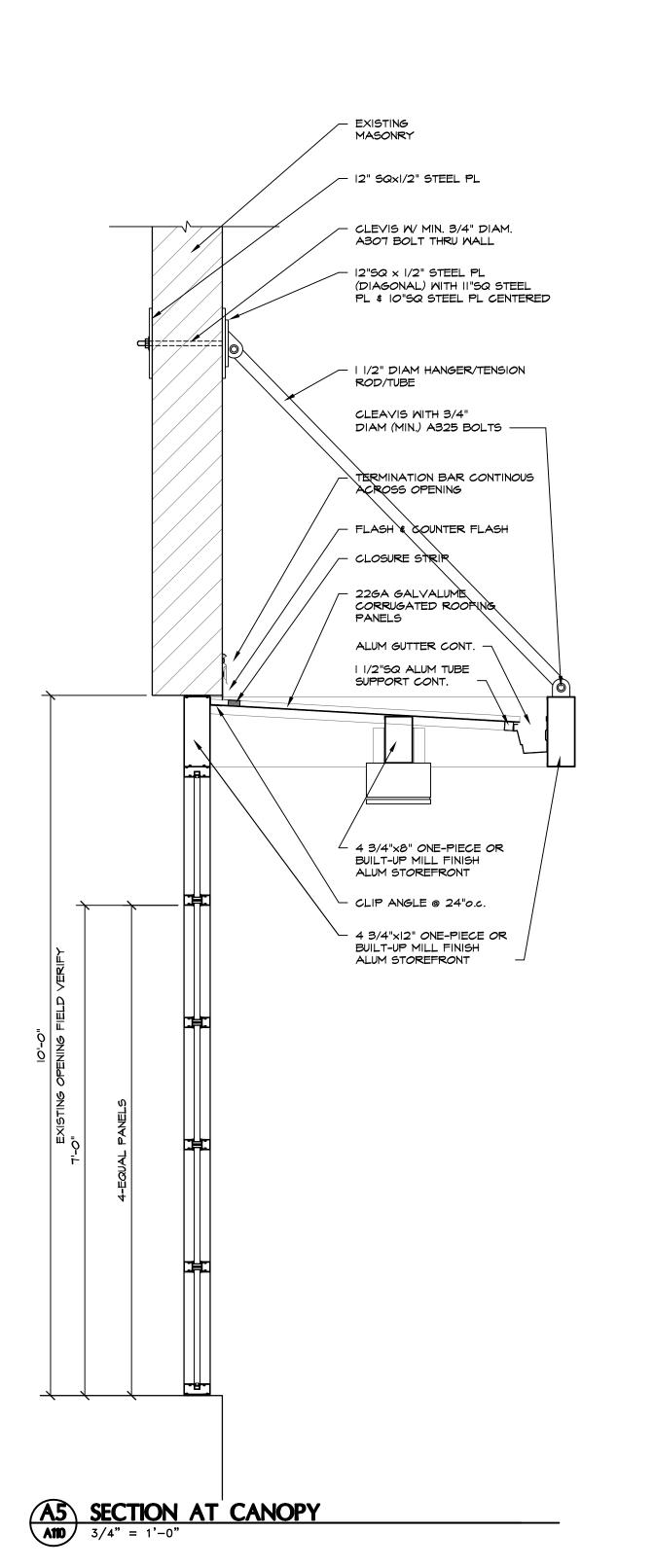
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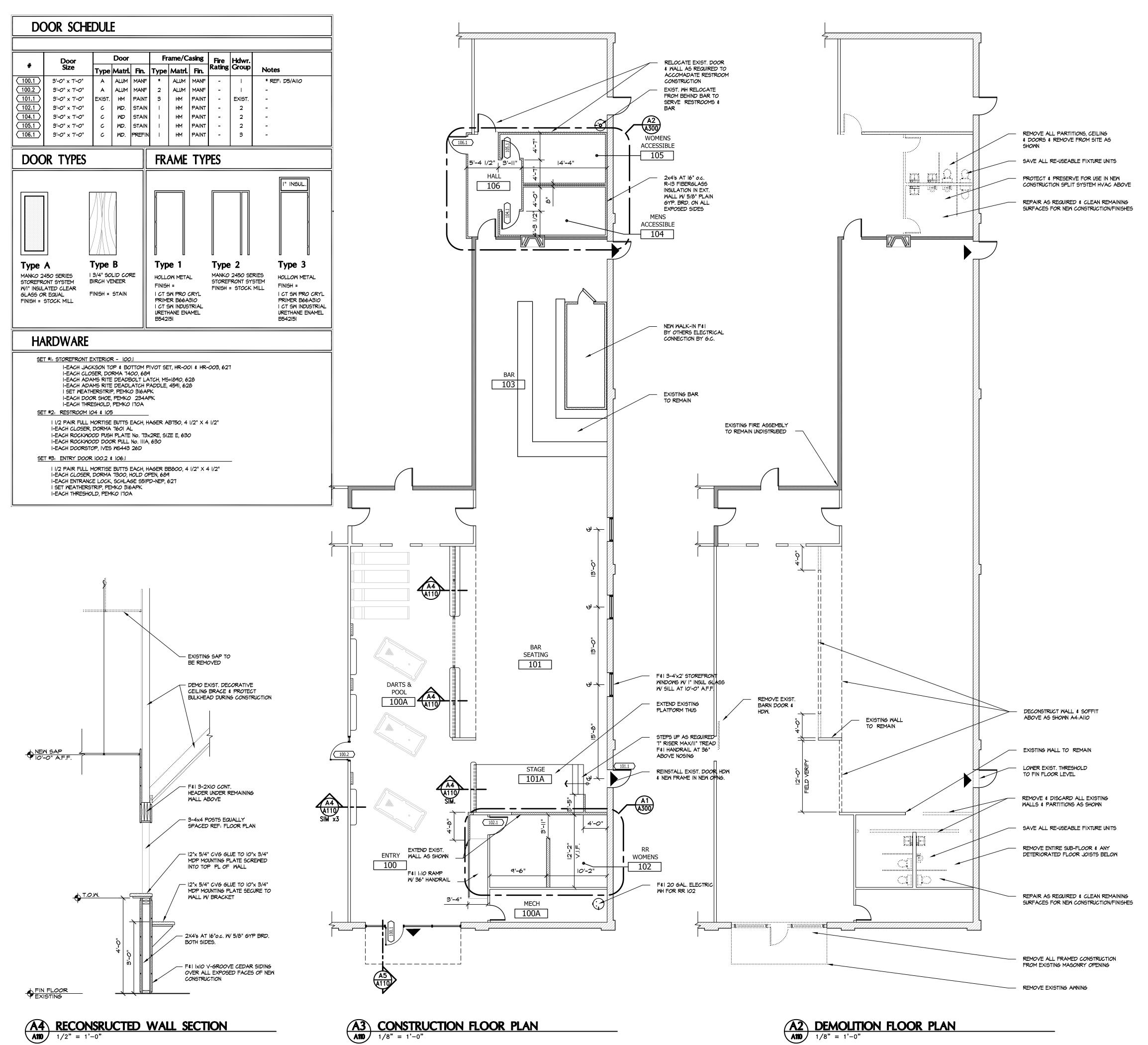
A001

of 4 Sheets









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Hughes Consulting Engineers

BRICKYARD REMODEL 402 Merchant Stree Emporia, Kansas

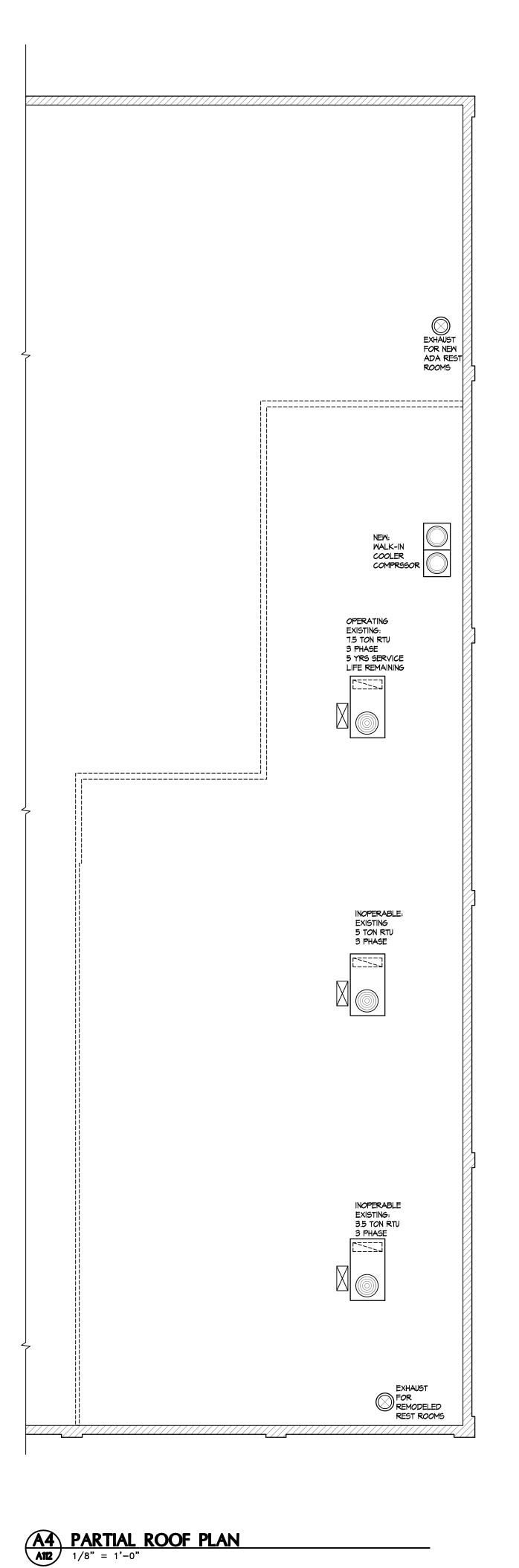
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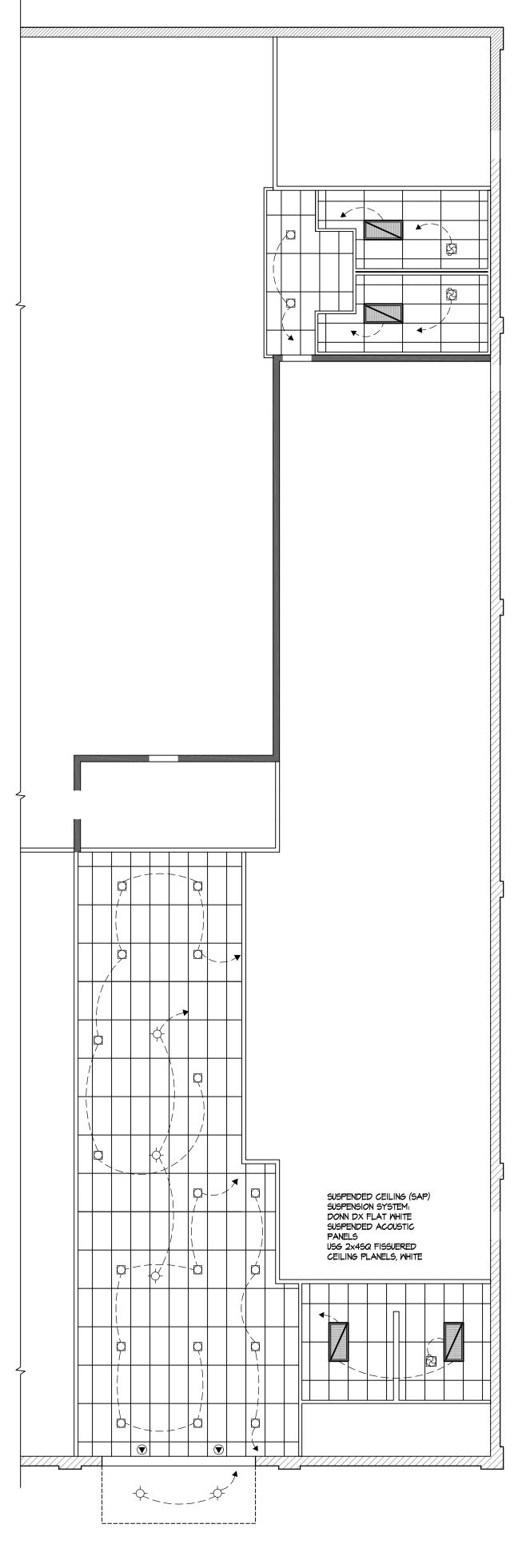
DEMO PLAN
CONSTRUCTION
PLAN
ELEVATION

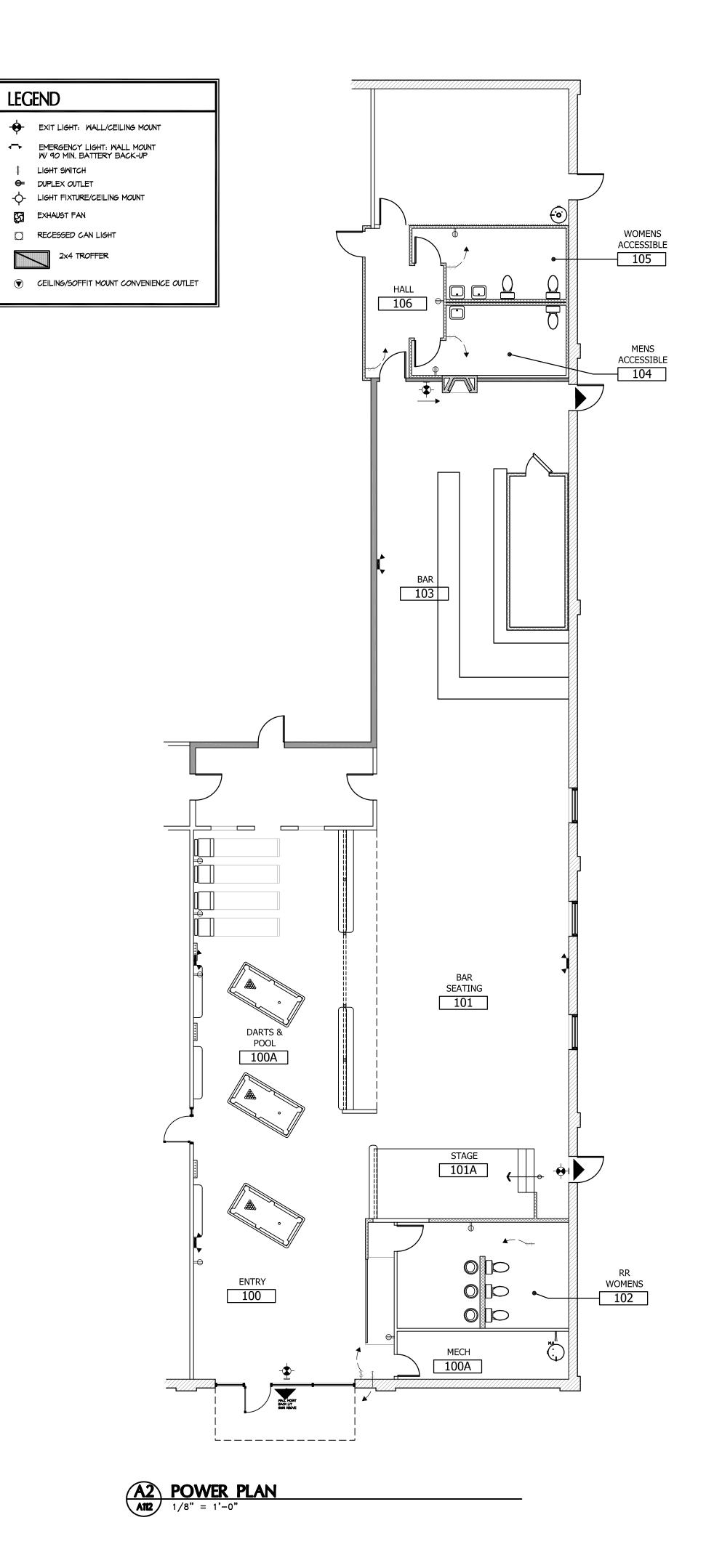
Sheet

A110

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A3 REFLECTED CEILING PLAN
1/8" = 1'-0"

Sheet

A 11

в of 4 Sheets

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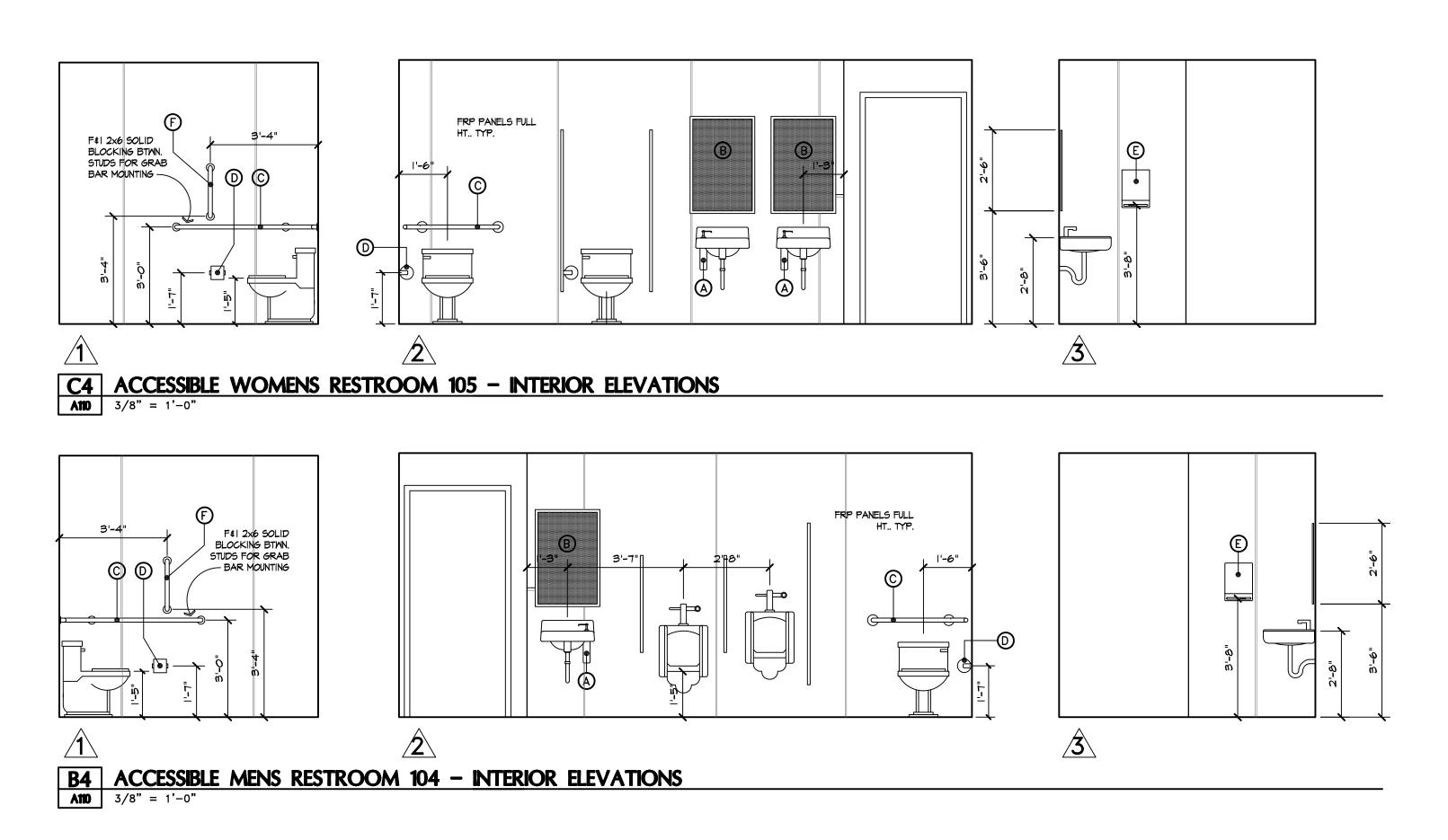
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BRICKYARI 402 Merc

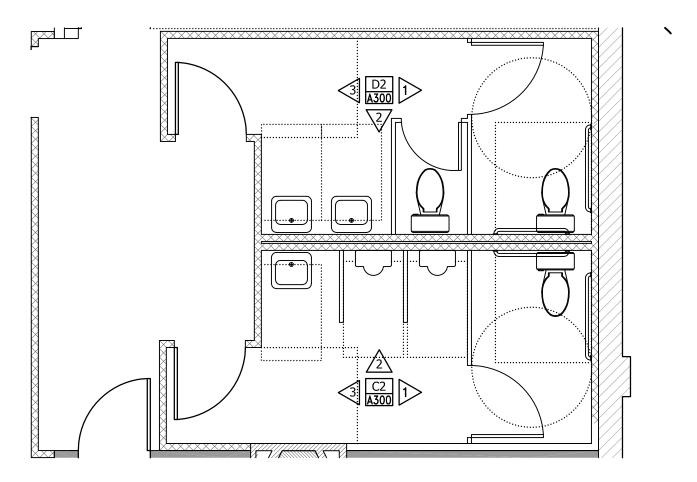
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POWER PLAN

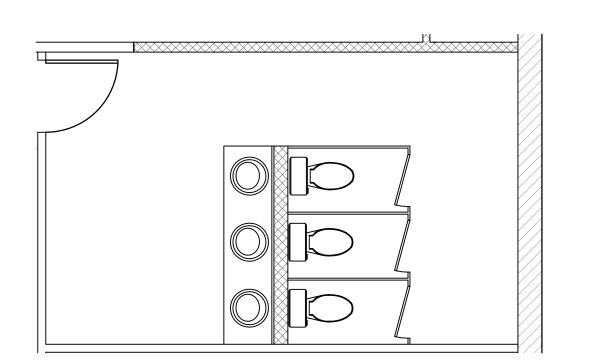
REFLECTED CEILING PLAN ROOF PLAN



R	estroom Acces	sory Schedule					
#	Description	Size	Mfg.	Model #	Finish	Mntg. Ht.	Notes
A	SOAP DISPENSER	20 oz.	BOBRICK	B-82216	SATIN S.S.	ON LAV.	I" P MOUNTING HOLE IN LAV
B	1/4" PL MIRROR	24" × 36"	BOBRICK	B-165 2436	S.S FRAME	3'-4"	MOUNTING HT. TO BOTTOM EDGE
0	GRAB BAR	Ι Ι/2" Φ × 36" × 54"	BOBRICK	B-6 8 137	SATIN S.S.	34" A.F.F.	MOUNTING HT. TO BAR &
D	TOILET TISSUE DISPENSER	6 1/2" × 4 7/8"	BOBRICK	B-2730	SATIN ALUM	19" A.F.F.	MOUNTING HT. TO SPINDLE &
D	TOWEL DISPENSER	II I/2" x I5" x 4 3/4"	BOBRICK	B-5262	SATIN S.S.	AS SHOWN	& OF DISPENSER SLOT
Đ	VERTICAL GRAB BAR	1/2" φ × 18"	BOBRICK	B-6806.99x18	SATIN S.S.	AS SHOWN	MOUNTING HT. TO BAR &







A1 ENLARGED 102 NON-ACCESS RR PLAN
1/4" = 1'-0"

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BRICKYARD REMODEL 402 Merchant Stree Emporia, Kansas

PROJECT # 1416
DATE: 08DEC14
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ENLARGED RESTROOM PLANS & ELEVATIONS

Sheet

A300

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				EQUIPMENT	SCHEDULE		
	PLAN MARK	MANUFACTURER	MODEL	AIRFLOW	HEATING	COOLING	REMARKS
	RTU-1	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	3
	FURN-1	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	3
	CU-1	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	3
	RTU-2	ALLIED	L0920 KGA060S4DM P	1,900	84,000	43,234	1,2,4
	RTU-3	ALLIED	L0920 KGA060S4DM P	1,900	84,000	43,234	1,2,4
F	REMARKS:						

1. NEW EQUIPMENT SHALL BE UL RATED FOR EXPOSED EXTERIOR USE. INSTALL WITH CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.

2. NEW EQUIPMENT SHALL BE INSTALLED ON EXISTING ROOF CURB(S). 3. EXISTING EQUIPMENT AND DUCT WORK SHALL NOT BE DISTURBED.

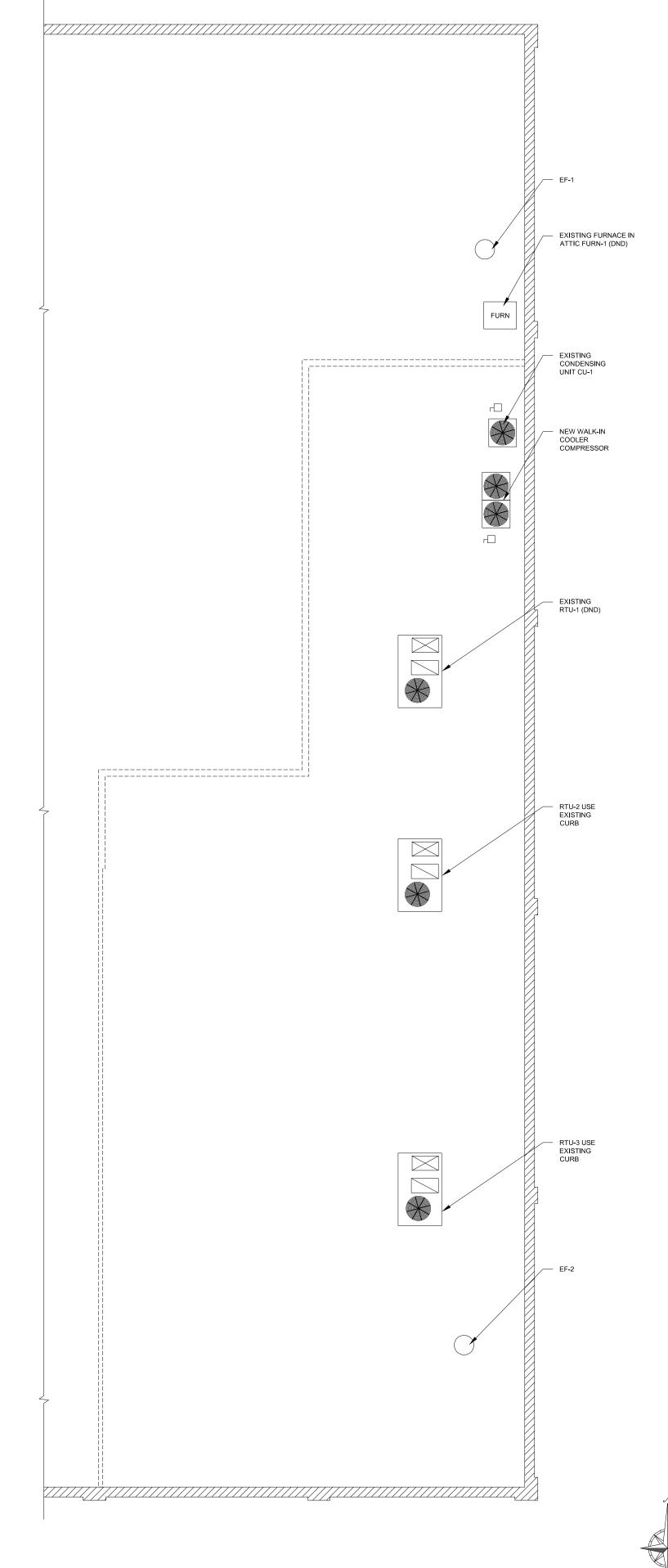
4. NEW EQUIPMENT SHALL USE EXISTING DUCT WORK, INSTALL NEW DUCT WORK AS REQUIRED..

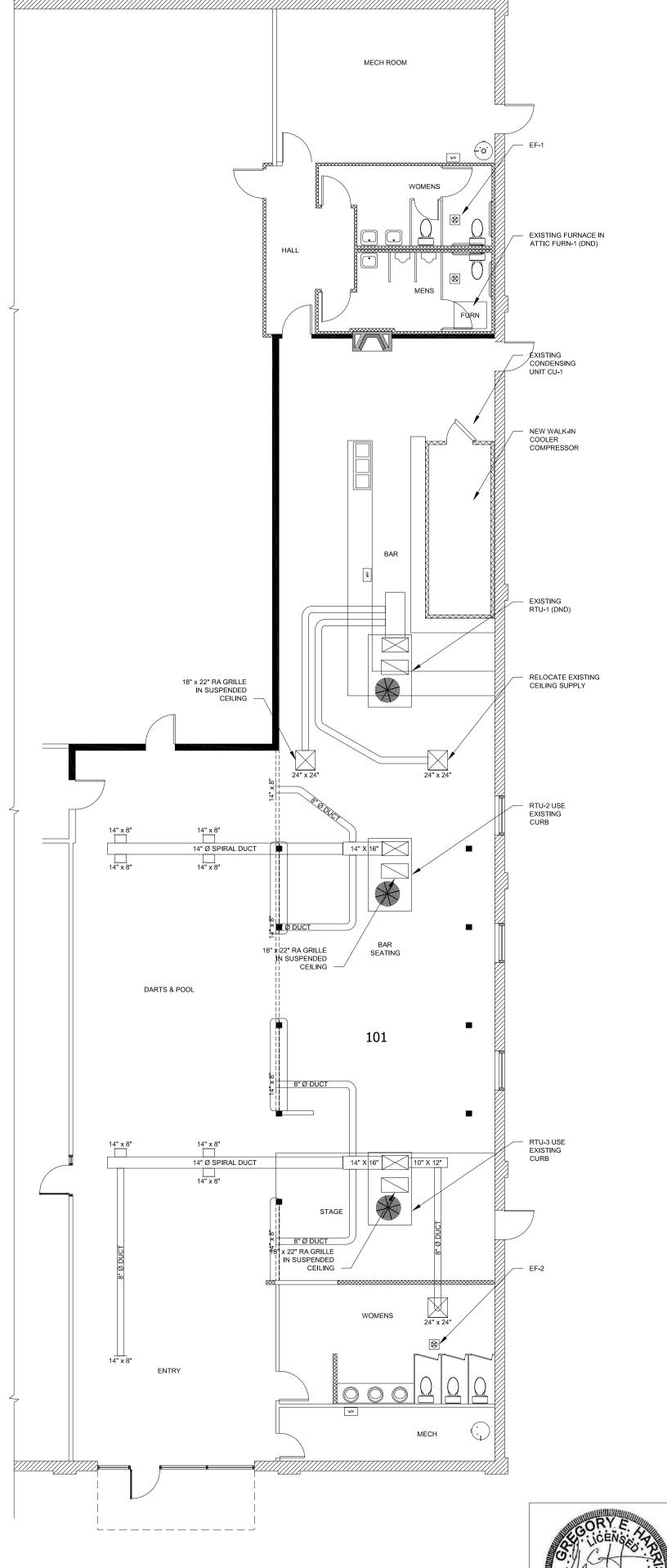
			EXHAL	JST FAN	N SCHED	ULE			
PLAN MARK	MANUFACTURER	R MODEL AIRFLOW ELECTRICAL						LOCATION	REMARKS
MARK	THRIOT HCTOILE		(in cfm)	watt	volt	ph	amps		INDININIS
EF-1	GREENHECK	G-065	232	25	120	1	.13	RR WOMENS	
EF-2	GREENHECK	G-065	232	25	120	1	.13	WOMENS ACCESSIBLE	
EF-3	GREENHECK	G-065	232	25	120	1	.13	MENS ACCESSIBLE	

MECHANICAL NOTES:

- 1. THESE DRAWINGS ARE BASED UPON AVAILABLE DOCUMENTS, WHICH MAY NOT ACCURATELY PORTRAY AS-BUILT CONDITIONS. EXISTING EQUIPMENT AND PIPING SIZES, LOCATIONS, AND DIMENSIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO DEMOLITION AND CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY OF ALL DISCREPANCIES AFFECTING THE REMOVAL OF EXISTING EQUIPMENT AND PIPING AND THE INSTALLATION OF NEW EQUIPMENT AND PIPING.
- 2. INSTALL PIPING AND DUCT WORK TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE INSTALLATION WORK OF OTHER TRADES. THESE DRAWINGS INDICATE APPROXIMATE LOCATIONS. DO NOT SCALE TO DETERMINE LOCATION OF PIPING. ALL DUCT WORK SHALL BE 26 GAUGE OR THICKER AND SHALL BE INSTALLED PER SMACNA STANDARDS.
- 3. PROTECT ALL EXISTING EQUIPMENT AND DUCT WORK THAT IS TO REMAIN.
- 4. REPAIR AND/OR REPLACE ALL EXISTING UTILITIES, STRUCTURAL ELEMENTS, EQUIPMENT, PIPING, CONDUIT, AND DUCT WORK THAT IS DAMAGED AS A RESULT OF THIS WORK.
- 5. PROVIDE CONDUIT AND WIRING PER THE 2005 NEC AND MANUFACTURER'S RECOMMENDATIONS.
- 6. NEW DUCT WORK SHALL BE A DESIGN / BUILD BY THE MECHANICAL CONTRACTOR PER THE CITY OF EMPORIA MINIMUM STANDARDS.
- 7. EXHAUST DUCT TERMINATION SHALL MAINTAIN A MINIMUM OF 10' CLEARANCE HORIZONTALLY OR NOT LESS THAN 3' VERTICALLY FROM AIR INTAKE OPENINGS.

	MECHANICAL LEGEND							
	ROOF TOP UNIT (RTU)							
(39)	EXHAUST FAN							
	WALK-IN COOLER COMPRESSOR							
FURN	FURNACE (EXISTING)							
	CONDENSING UNIT							
T	THERMOSTAT							





Checked: DWO

Date: Jan 27, 2015

Designed: DWO

Drawn: KHG

No.

CENTRAL KANSAS E

				PAN	IEL S	CHED	ULE				
PANEL: P1 (EXIST	VC	VOLTS: 240 / 120 V AIC RATING: 10,000									
MOUNTING: SURFACE			PH	IASE: 1					MAINS	S: BRE	AKER
ENCL TYPE: NEMA 1			WI	IRE: 3					AMPERE	200	
BRANCH CIRCUIT DESCRIPTION	WIRE	POLE	CKT NO.	ф	Α	ф	В	CKT NO.	POLE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION
		BKR		-	-	—	— ►		BKR		
WALK-IN COOLER	10	2/30A	1	1.25	0.80			2	1/20A	12	RESTROOM LIGHTS
WALK-IN COOLER	10	2/30A	3			1.25	0.80	4	1/20A	12	RESTROOM RECEPTS
GENERAL LIGHTS	12	1/20A	5	0.80	0.80			6	1/20A	12	BAR LIGHTS
POOL LIGHTS	12	1/20A	7			0.80	0.80	8	1/20A	12	POOL RECEPTS
NEON RECEPTS	12	1/20A	9	0.80	0.80			10	1/20A	12	EXHAUST FAN: EF-1
EXISTING RECEPTS	12	1/20A	11			0.80	0.80	12	1/20A	12	EXISTING RECEPTS
BAR RECEPTS	12	1/20A	13	0.80				14			OPEN
BAR SEATING	12	1/20A	15			0.80	0.00	4.0	4/004	40	DAD DECEDTO
OPEN		1/20A	15				0.80	16	1/20A	12	BAR RECEPTS
CEILING FANS	12	1/20A	17	0.80	,,,,,,,			4.0			OPEN
OPEN		1/20A	17					18			
WATER HEATER WH-3	8	2/40A	19			2.40	2.40	20	2/40A	8	WATER HEATER WH-2
WATER HEATER WH-3	8	2/40A	21	2.40	2.40			22	2/40A	8	WATER HEATER WH-2
ENTRY RECEPTS	12	1/20A	23			0.80				_	011.4 (5)(1071)10)
OPEN		1/20A	23				2.40	24	2/40A	8	CU-1 (EXISTING)
EXISTING RECEPTS	12	1/20A	25	0.80	2.40			26	2/40A	8	CU-1 (EXISTING)
FURN-1 (EXISTING)	12	1/20A	27			0.80		28	2/30A	10	OPEN
EXISTING (OPEN)	12	1/20A	29					30	2/30A	10	OPEN
Т	OTALS (8	0% DIVERS	IFIED)	7.65	7.20	7.65	8.00	ТОТА	LS (80% DI	VERSIFIE	D)

				PAN	IEL S	CHED	ULE				
PANEL: P2 (EXIST	ING)		VC	DLTS: 20	08 / 120 V			A	AIC RATING	i: 10,0	00
MOUNTING: SURFACE			PH	IASE: 1					MAINS	: BRE	AKER
ENCL TYPE: NEMA 1			WI	RE: 3					AMPERE	: 150	
BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	POLE BKR	CKT NO.	φ	ρΑ →	φ	B	CKT NO.	POLE BKR	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION
SPARE			1		4.70			2	2/70A	4	RTU-1 (EXISTING)
SPARE			3				4.70	4	2/70A	4	RTU-1 (EXISTING)
RTU-2	8	2/50A	5	3.60	0.80			6	1/20A	12	EXTERIOR LIGHTS
RTU-2	8	2/50A	7			3.60	0.80	8	1/20A	12	SIGN
RTU-3	8	2/50A	9	3.60	0.80			10	1/20A	12	EXHAUST FAN: EF-3
RTU-3	8	2/50A	11			3.60	0.80	12	1/20A	12	WOMENS RESTROOM
SPARE			13					14			SPARE
SPARE			15					16			SPARE
SPARE			17					18			SPARE
Т	OTALS (8	U DIVERS	SIFIED)	7.20	6.30	7.20	6.30	TOTA	LS (80% DI\	/ERSIFIE	D)

	LEGEND					
SYMBOL	DESCRIPTION					
	4 LAMP T5 LITHONIA FIXTURE					
•	EXIT LIGHT					
◆	EMERGENCY BATTERY LIGHT FIXTURE					
\ominus	DUPLEX GROUNDED RECEPTACLE					
	208v RECEPTACLE					
\$	LIGHT SWITCH, TOGGLE TYPE, SINGLE POLE, 20 AMP, 120 - 277 VOLT AC, HUBBELL CAT. NO. HBL1224					
(X)	EXHAUST FAN					
	CONDUIT RUN 2#12 & 1#12 GRD ½" C.					
J	JUNCTION BOX					
-	LIGHT FIXTURE/CEILING MOUNT					
	RECESSED CAN LIGHT					
•	CEILING/SOFFIT MOUNT CONVENIENCE OUTLET					
WH	WATER HEATER					
W.P.	WEATHER PROOF					
P.B.	ELECTRICAL PANEL BOARD					
WPC	WEATHER PROOF ENCLOSURE					
GFI	GROUND FAULT CURRENT INTERUPTER					
T	THERMOSTAT					

N	MECHANICAL LEGEND
	ROOF TOP UNIT (RTU)
8	EXHAUST FAN
	WALK-IN COOLER COMPRESSOR
FURN	FURNACE (EXISTING)
	CONDENSING UNIT
	THERMOSTAT

- 1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2008 NATIONAL ELECTRICAL CODE (NEC), LATEST EDITION, RULES AND REGULATIONS OF THE DEPARTMENT OF PUBLIC WORKS.
- 2. ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED WHERE LISTING IS AVAILABLE FOR THAT TYPE OF EQUIPMENT OR CONFORM TO ANSI OR NEMA STANDARDS, SUBMIT SHOP DRAWINGS AND PRODUCT INFORMATION CATALOG FOR APPROVAL.
- 3. WORKMANSHIP SHALL CONFORM TO CONSTRUCTION PRACTICES RECOMMENDED BY THE AMERICANS HANDBOOK BY CROFT (LATEST EDITION) AND SHALL BE SUBJECT TO THE APPROVAL OF THE AGENCY WHO HAS JURISDICTION AND THE ENGINEER.
- 4. ANY DEVICE MAY BE RELOCATED FROM THE LOCATION SHOWN ON THE DRAWINGS PRIOR TO INSTALLATION AT THE DIRECTION OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
- 5. METALLIC ENCLOSURES, RACEWAYS, AND ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH REQUIREMENTS OF NEC ARTICLE 250. PROVIDE GROUND WIRE IN EVERY RACEWAY. SIZE IN ACCORDANCE WITH NEC TABLE.
- 6. OBTAIN AND PAY FOR PERMITS.
- 7. CONDUIT SHALL BE PVC (ENCASED IN CONCRETE AND BELOW GRADE), ALUMINUM (EXPOSED INSTALLATION), EMT (DRY LOCATIONS) CONCEALED ABOVE GRADE, $\frac{3}{4}$ " DIAMETER UNLESS OTHERWISE NOTED.
- 8. WIRING SHALL BE NEC TYPE THWN OR XHHW, 600V. CONDUCTORS SHALL BE COPPER.
- 9. TESTING SHALL BE PER 2008 NEC.
- A. MEASUREMENT OF VOLTAGES AT SERVICE EQUIPMENT.
- B. OPERATION TEST C. INSULATION RESISTANCE
- D. GROUNDING TEST
- 10. PANEL BOARD SHALL BE COMPLETE WITH BUS, ENCLOSURE AND TRIM, COMPLEMENT OF MOLDED PLASTIC CASE CIRCUIT BREAKERS WITH RATINGS AS INDICATED, AND COMPLETED TYPE WRITTEN CIRCUIT DIRECTORY.
- 11. SUBSTITUTE MATERIALS TO BE EQUAL QUALITY TO SPECIFIED ITEM. IF SUBSTITUTE MATERIALS ARE PROPOSED, SUBMIT FOUR (4) COPIES OF SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING. PROVIDE SAMPLES OF SUBSTITUTE MATERIALS, IF REQUESTED TO EVALUATE EQUALITY OF PROPOSED SUBSTITUTION.
- 12. GUARANTEE THE ENTIRE INSTALLATION SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP, WHEN NOTIFIED BY THE OWNER OF FAILURE OF ANY PART OF THE INSTALLATION DURING THE GUARANTEE PERIOD. CONTRACTOR SHALL REPAIR OR REPLACE THE DEFECTIVE PART AT HIS OWN EXPENSES TO THE SATISFACTION OF THE OWNER.
- 13. INSTALLATION AND WORKMANSHIP,
- A. ALL WORK SHALL BE NEATLY EXECUTED, WORKMANLIKE IN APPEARANCE SYMMETRICAL, PLUMB, UNIFORM, PROPERLY ALIGNED AND SECURED IN PLACE.
- B. WIRING METHODS,
- (1) USE SEALTITE FLEX FOR CONNECTION TO EQUIPMENT. (2) ATTACH TO CONCRETE AND MASONRY WITH EXPANSION ANCHORS AND TO WOOD WITH WOOD
- (3) SUPPORT RACEWAYS PER NEC.
- (4) DO NOT SUPPORT RACEWAYS AND BOXES FROM AND ON MECHANICAL SYSTEMS. (5) CABLES WILL NOT BE PERMITTED.
- (1) MAKE SPLICES IN ACCESSIBLE LOCATIONS, MAKE SPLICES IN CONDUCTORS No. 10 AWG AND SMALLER DIAMETER WITH INSULATED, PRESSURE-TYPE CONNECTOR MAKE SPLICES IN CONDUCTORS No. 8 AWG AND LARGER DIAMETER WITH SOLDERLESS CONNECTOR, AND COVER WITH INSULATION MATERIAL EQUIVALENT TO CONDUCTOR INSTALLATION.
- D. CUT, DRILL AND PATCH AS REQUIRED. REPAIR ANY SURFACES DAMAGED OR MARRED. CUTTING,
- REPAIRS AND REFINISHING SHALL BE SUBJECT TO THE APPROVAL OF ARCHITECT. E. CLEAN ALL SURFACES TO RECEIVE PAINT. PAINT ANY SURFACE DAMAGED DURING INSTALLATION.
- F. REPAIR ALL SURFACES DAMAGED DURING THE INSTALLATION OF THE WORK SUBJECT TO THE APPROVAL OF THE ARCHITECT.
- G. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED WITH APPROVED FIRESTOPPING MATERIAL.
- H. PROVIDE EXPANSION/DEFLECTION FITTING FOR CONDUITS THROUGH SEISMIC JOINTS.
- I. PROVIDE CONDUIT SEAL FOR CONDUITS PASSING THROUGH AIR CONDITIONED AND NON-AIR CONDITIONED AREAS.

15. WIRING DEVICES,

- A. SWITCHES, 20A-POLES AS INDICATED ¹²⁹/₂₇₇V, COLOR TO MATCH DEVICE PLATE.
- B. RECEPTACLES, 20A, 125V. COLOR TO MATCH DEVICE PLATE.
- 16. FIXTURES INSTALL FIXTURES INDICATED IN LUMINAIRE SCHEDULE COMPLETE WITH LAMPS, HANGERS, SUPPORTS, BALLAST AND ACCESSORIES. ALL FLUORESCENT BALLAST SHALL BE ELECTRONIC TYPE.
- 17. DEVICE PLATES PLASTIC COLOR TO MATCH DEVICE.
- 18. OUTLETS PROVIDE OUTLET BOXES TO SUIT CONDITIONS ENCOUNTERED. BOXES SIZED TO ACCOMMODATE CONDUCTORS PER NEC. MINIMUM SIZE OF BOX FOR USE WITH RACEWAY SYSTEMS TO BE 4" SQUARE BY 1½" DEEP.
- 19. CIRCUIT BREAKERS AND SAFETY SWITCHES GENERAL ELECTRIC, SQUARE D, ITE, WESTINGHOUSE OR CUTLER HAMMER CHALLENGER SAFETY SWITCH - HEAVY DUTY TYPE.

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				P1 - PANEL SCHEDULE / P2 - PANEL SCHEDULE	Revisions
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PLAN Mark	MANUFACTURER	MODEL NUMBER	GALLONS	# OF HEATING ELEMENTS	KW	ELECTRICAL	REMARK
WH-1	EXISTING	EXISTING	40	GAS	NA	NA	1
WH-2	EEMAX	EX8208	NA	1	8.3	240V / 1PH	2
WH-3	EEMAX	EX8208	NA	1	8,3	240V / 1PH	2

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP GRATE SIZE	WASTE SIZE	REMARKS
FD-1	EXISTING			6″ø	2"	

PLUMBING FIXTURE SCHEDULE											
PLAN	EIVILDE MODEL			FITTINGS AND TRIM			PLUMBING FIXTURE PIPE SIZE				
MARK	FIXTURE MODEL	FIXTURE DESCRIPTION	FITTINGS MODEL	FITTINGS AND DESCRIPTION	REMARKS	WASTE	VENT	CW	HW		
L-1	KDHLER K2202-4-0	WHITE 19" BROOKLINE SELF-RIMMING VIREOUS CHINA 1 HOLE LAV. (ADA COMPLIANT. WITH FAUCET HOLES ON 4" CENTERS. OR ACCEPTALBLE EQUIVALANT. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS	KOHLER	4" CENTERSET FAUCET WITH 4", VANDAL-RESISTANT METAL LEVER HANDLE, ½" CONNECTIONS, AND GRID DRAIN WITHOUT POP-UP HOLE. 2.0 GPM SPRAY	1,2,3,4	11/4"	11/4"	½"	1/2"		
WC-1	KOHLER K4274-0	ADA COMPLIANT, 1.6 GALLON, FLUSH TANK WATER CLOSET, PRESSURE-ASSISTED SIPHON JET. WHITE VITREOUS CHINA ELONGATED BOWL AND TANK, 16 ½" HIGH. TWO PIECE, 12" ROUGH-IN. FURNISHED WITH POLISHED CHROME FLUSH ACTUATOR.	CHURCH 9500C	WHITE, SOLID PLASTIC, OPEN-FRONT SEAT FOR ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POST		3"	2"	½"			
WC-2	KOHLER .	1.6 GALLON, FLUSH TANK WATER CLOSET, PRESSURE-ASSISTED SIPHON JET. WHITE VITREOUS CHINA ELONGATED BOWL AND TANK, 16 ½" HIGH. TWO PIECE, 12" ROUGH-IN. FURNISHED WITH POLISHED CHROME FLUSH ACTUATOR.	CHURCH 9500C	WHITE, SOLID PLASTIC, OPEN-FRONT SEAT FOR ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POST		3″	2"	½"			
S-1	EXISTING	SERVICE SINK	EXISTING	EXISTING		2"	1½″	1/2"	1/2"		

1. PROVIDE CHROME-PLATED BRASS TAILPIECE AND GRID DRAIN.
2. PROVIDE CHROME-PLATED BRASS P-TRAP.
3. PROVIDE LOOSE KEY STOP AND FLEXIBLE RISERS.
4. INSULATE EXPOSED TAILPIECE, P-TRAP, WATER RISERS.

MECHANICAL NOTES:

1. SLOPE NEW DRAIN LINES TOWARDS BUILDING SANITARY SEWER 1/4" PER FOOT MIN.

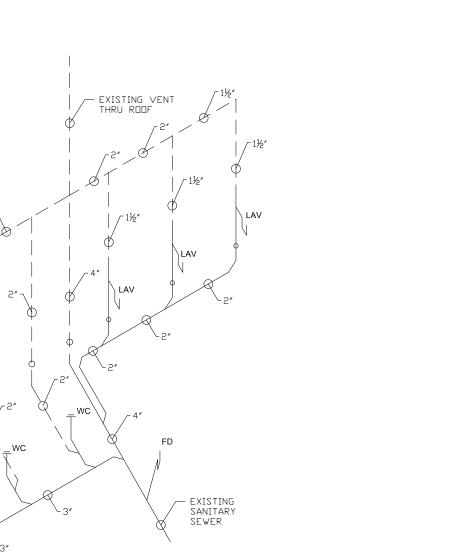
2. EXISTING HOT (HW) AND COLD (CW) MAIN TO REMAIN TIE INTO EXISTING AS INDICATED TO SERVICE NEW FIXTURES.

3. EXISTING HOT WATER HEATER TO BE RELOCATED AS INDICATED ON THE DRAWINGS.

4. PROVIDE $\frac{1}{2}$ " HOT WATER AND/OR COLD WATER CONNECTIONS TO NEW PLUMBING FIXTURES AS INDICATED ON THE DRAWINGS.

5. PROVIDE MANUAL $\frac{1}{4}$ TURN GAS SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION(ON THE WALL OR OVERHEAD) AT THE NEW WATER HEATER LOCATION.

6. PROVIDE $\frac{1}{2}$ " HOT AND COLD WATER CONNECTIONS WITH MANUAL $\frac{1}{4}$ TURN SHUT-OFF VALVES AT EACH NEW PLUMBING FIXTURE.



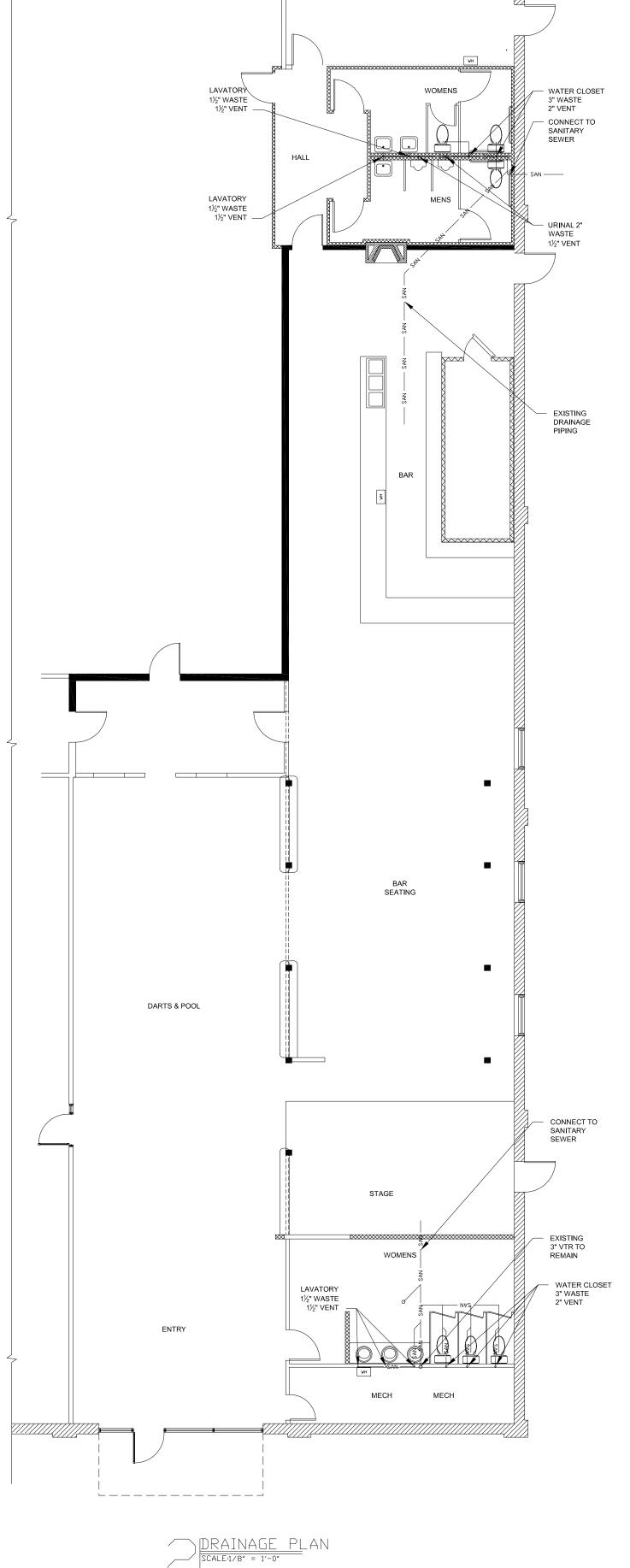
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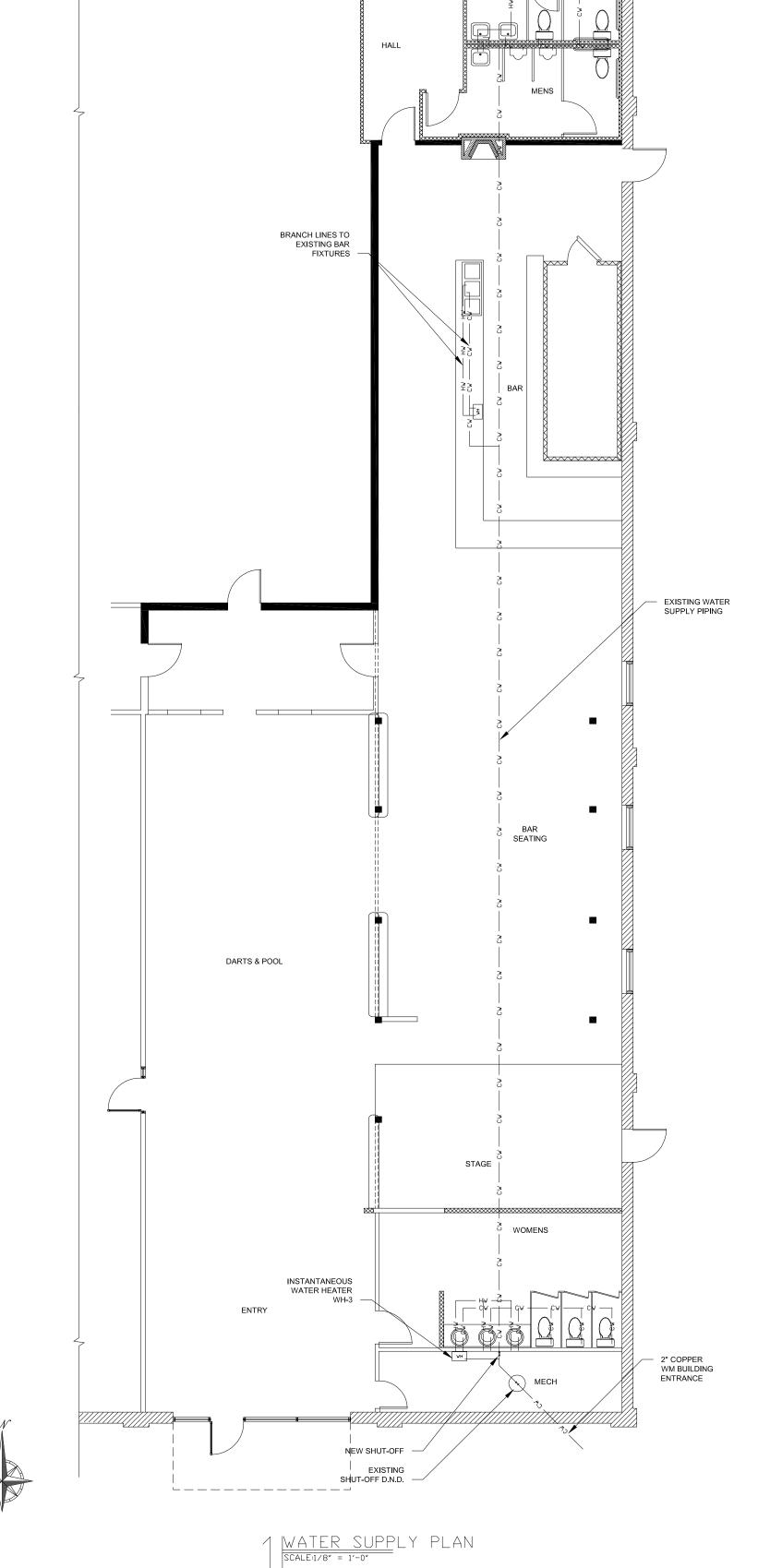
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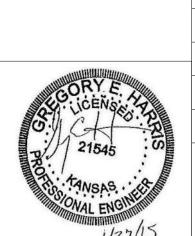


MECH ROOM



MECH ROOM

INSTANTANEOUS WATER HEATER WH-2



Date: Jan 27, 2015 Drawn: KHG Checked: DWO

BRICKYARD REMODEL 402 MERCHANT STREET Emporia, Kansas

No.

CENTRAL KANSAS ENGINEERING CONSULTANTS, L. CIVIL ENGINEERING - PLANNING - CONSTRUCTION MANAGEMENT