MFR	MANUFACTURER
DX	DIRECT EXPANSION
RV-1	RELIEF VENT
ESP	EXTERNAL STATIC PRESSURE
LAT	LEAVING AIR TEMPERATURE
EAT	ENTERING AIR TEMPERATURE
EF-1	EXHAUST FAN
DN	DOWN
OSA	OUTSIDE AIR
EAD	EXHAUST AIR DUCT
RA	RETURN AIR
RAD	RETURN AIR DUCT
SA	SUPPLY AIR
SAD	SUPPLY AIR DUCT
TAD	TRANSFER AIR DUCT
AFF	ABOVE FINISHED FLOOR
CFM	CUBIC FEET PER MINUTE
TYP	TYPICAL
8ø	ROUND DUCTWORK
PRV	PRESSURE REDUCING VALVE
10×6	RECTANGULAR DUCT (WIDTH×D
MAU-1	MAKE-UP AIR UNIT
HPG	HIGH PRESSURE GAS (5 PSIG
LPG	LOW PRESSURE GAS (0.5 PSI



А

1

D

С

В

1

SEISMIC BRACING <u>—×</u>— SUPPLY DUCT IN SECTION X RETURN DUCT IN SECTION EXHAUST DUCT IN SECTION VOLUME DAMPER _____ TURNING VANES FIRE DAMPER FIRE/SMOKE DAMPER $\bullet - \bullet$ \sum SUPPLY DIFFUSER (A) 500 DIFFUSER CFM AND TYPE NALVE RETURN/EXHAUST AIR DEVICE (WIDTH×DEPTH) AIRFLOW DIRECTION _∕-► 6 (5 PSIG) (T)THERMOSTAT (0.5 PSIG) \bigtriangledown PRV

2 SYMBOLS - MECHANICAL NOT TO SCALE

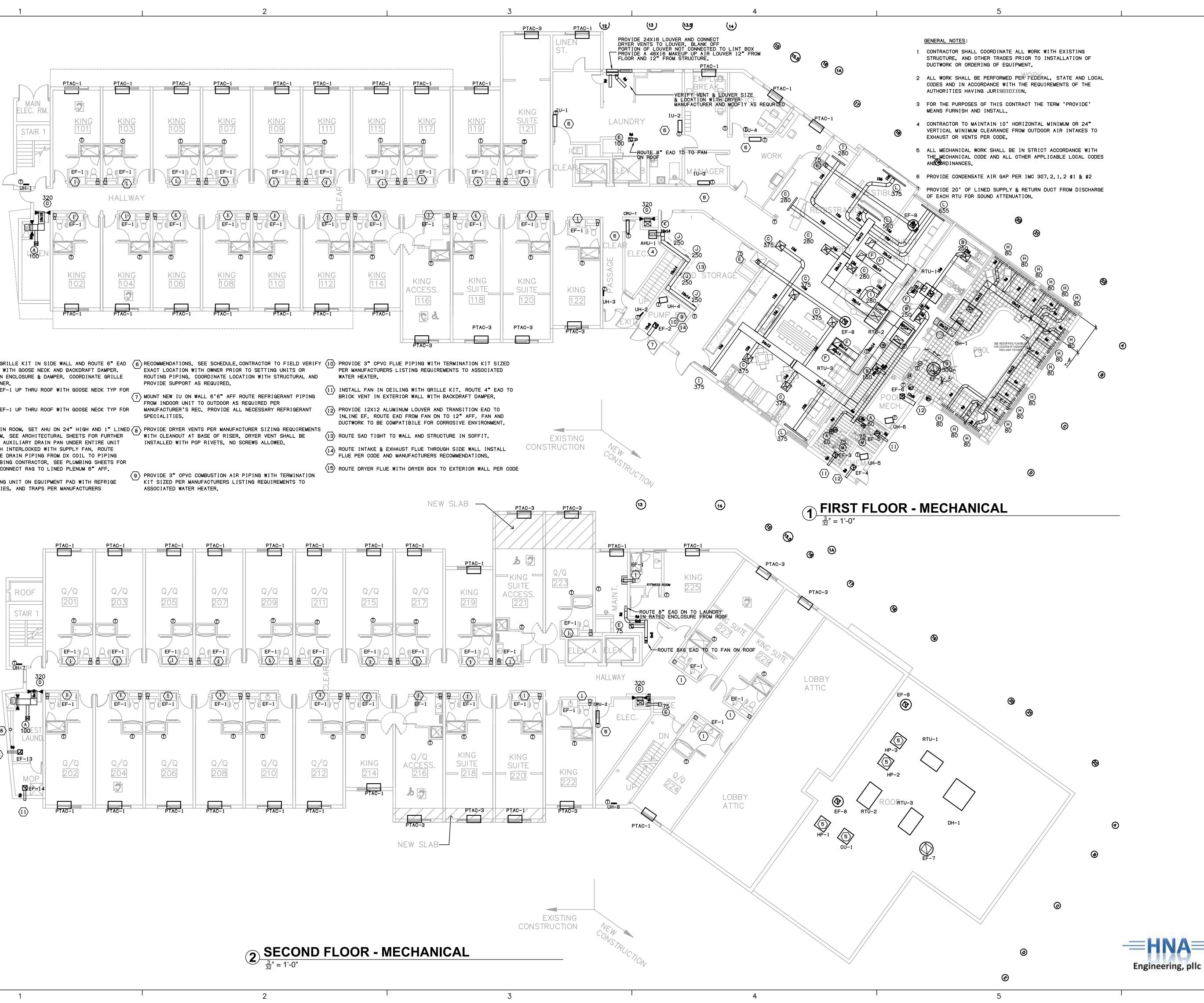
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3

	byron b. carson, jr., aia ARCHITECT
	5134 ELMORE, SUITE 6 MEMPHIS, TN 38134 PH: 901.433.9492 FAX: 901.208.8842 bcarson.carsoninc@comcast.net
	COMMERCIAL + MULTI-FAMILY+ RESIDENTIAL ARCHITECTURAL DESIGN & INTERIOR DESIGN A MEMBER FIRM OF THE AMERICAN INSTITUTE OF ARCHITECTS SINCE1985
	MARRIOTT FAIRFIELD
	290 POWER DRIVE, BATESVILLE, MS 38606
	SEAL
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	CONSULTANTS
	ISSUES & REVISIONS NO. DATE DESCRIPTION 1 01/19/2016 FOR CONSTRUCTION
	PROJECT NAME:
	PROJECT NUMBER: DRAWING NAME: NOTES & LEGEND -
	MECHANICAL
	DRAWN BY: CHECKED BY: DATE: 01-19-16 SCALE: AS NOTED DRAWING NUMBER
-	M001

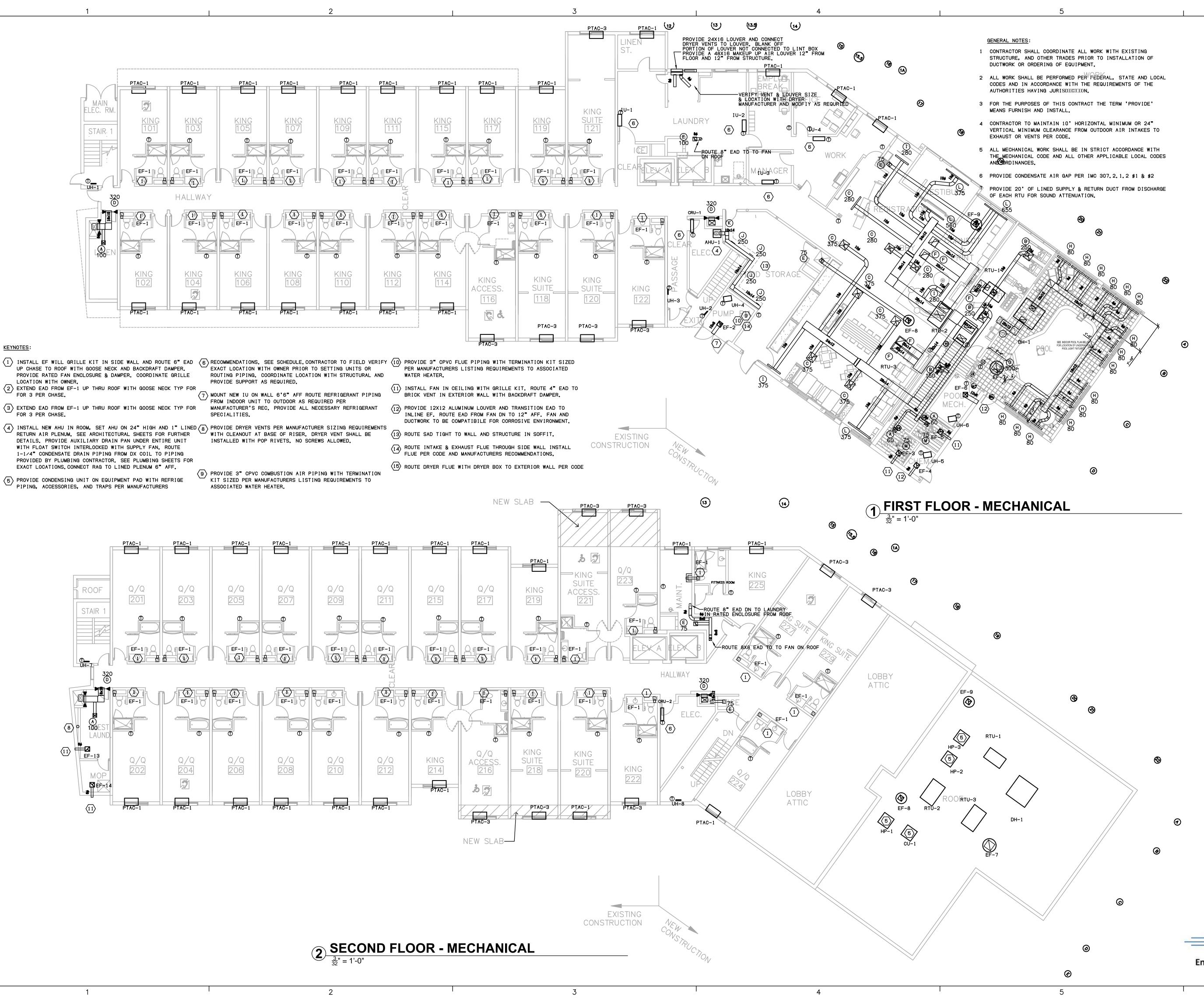
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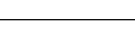
INA= Engineering, pllc



KEYNOTES:

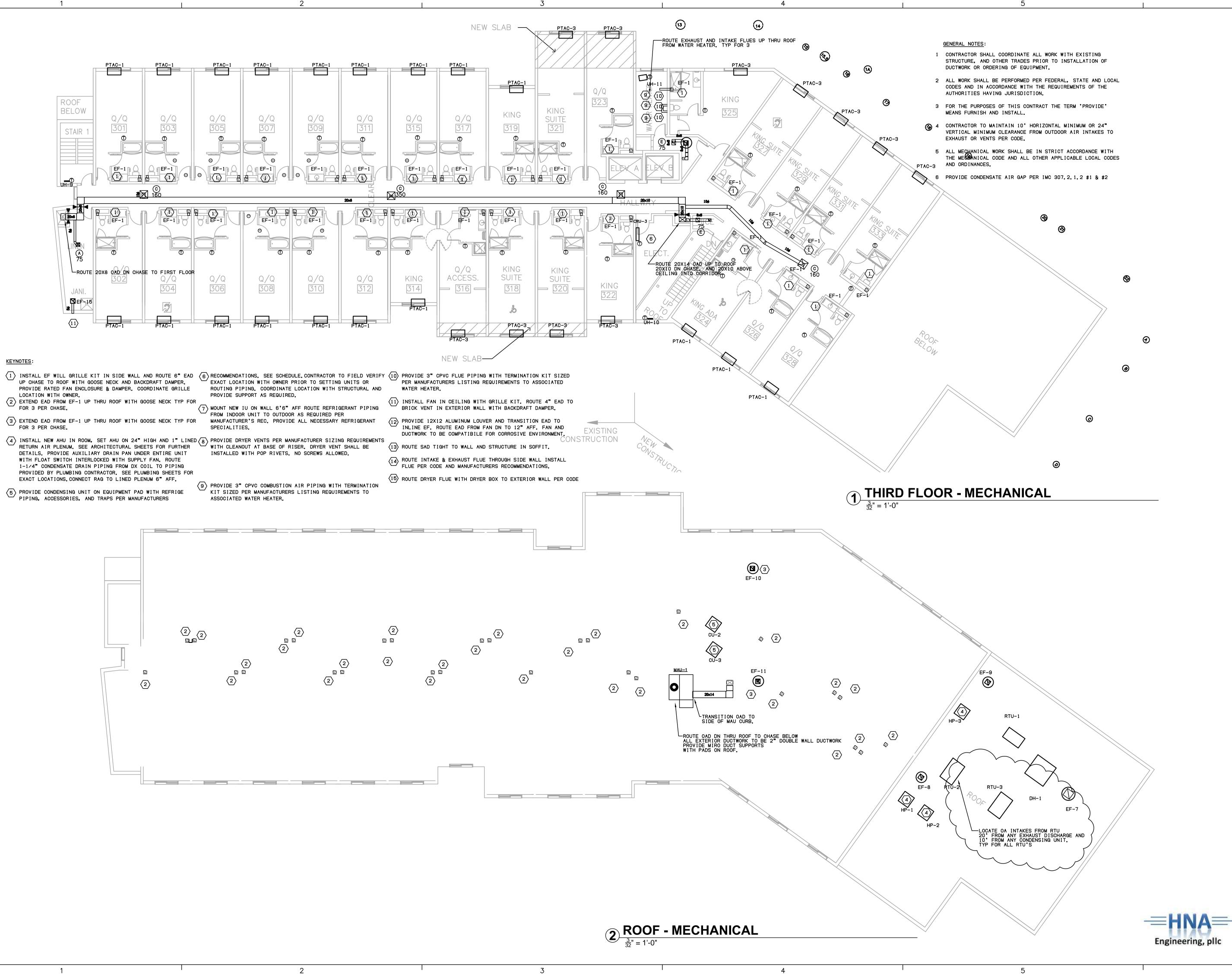
- UP CHASE TO ROOF WITH GOOSE NECK AND BACKDRAFT DAMPER. PROVIDE RATED FAN ENCLOSURE & DAMPER. COORDINATE GRILLE LOCATION WITH OWNER.
- (2) EXTEND EAD FROM EF-1 UP THRU ROOF WITH GOOSE NECK TYP FOR FOR 3 PER CHASE.
- FOR 3 PER CHASE.
- DETAILS. PROVIDE AUXILIARY DRAIN PAN UNDER ENTIRE UNIT WITH FLOAT SWITCH INTERLOCKED WITH SUPPLY FAN, ROUTE 1-1/4" CONDENSATE DRAIN PIPING FROM DX COIL TO PIPING PROVIDED BY PLUMBING CONTRACTOR. SEE PLUMBING SHEETS FOR EXACT LOCATIONS. CONNECT RAG TO LINED PLENUM 6" AFF.
- 5 PROVIDE CONDENSING UNIT ON EQUIPMENT PAD WITH REFRIGE PIPING, ACCESSORIES, AND TRAPS PER MANUFACTURERS





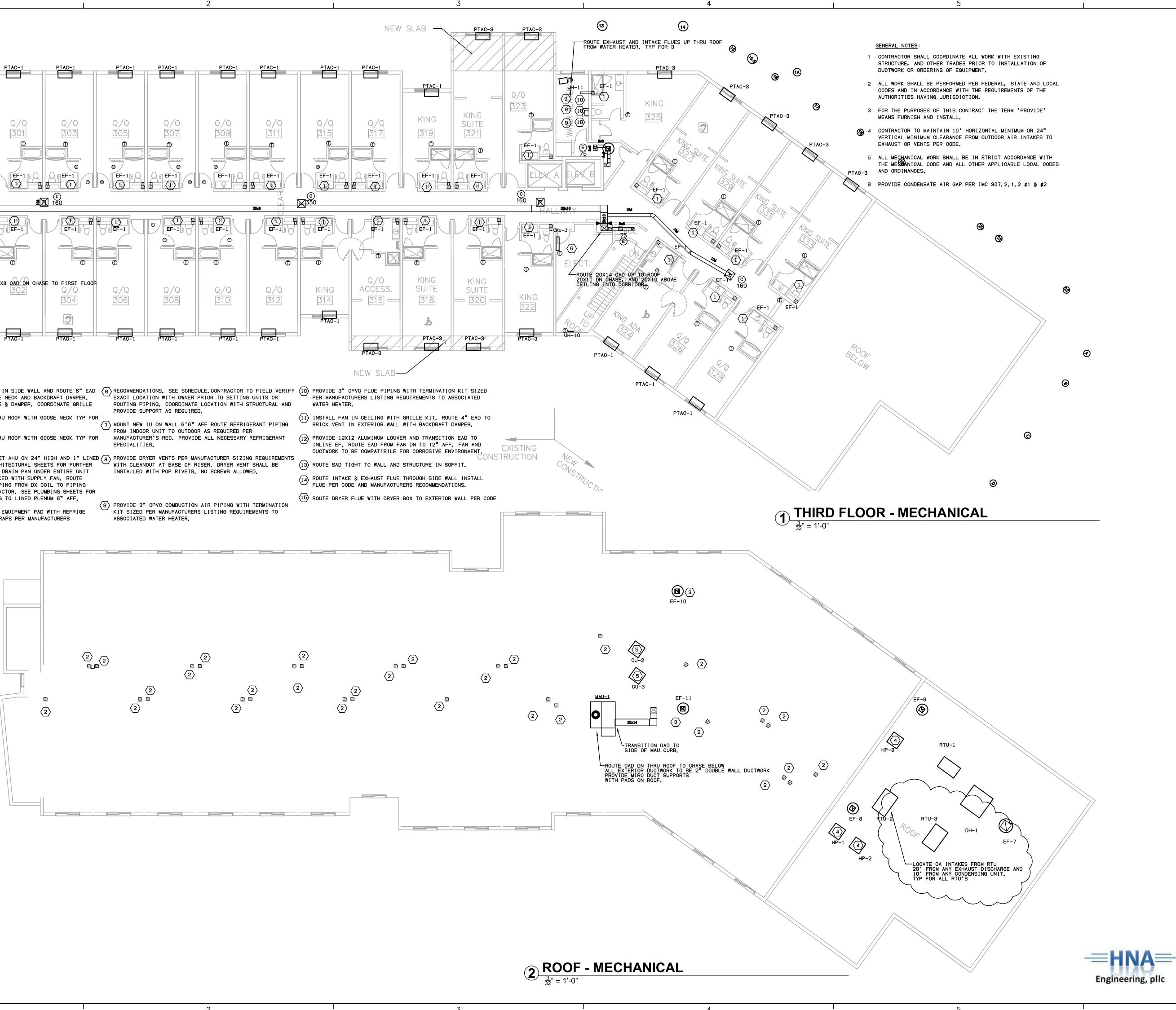
A	RCHITECT
١	134 ELMORE, SUITE 6 MEMPHIS, TN 38134 PH: 901.433.9492 FAX: 901.208.8842 arson.carsoninc@comcast.net
	MMERCIAL + MULTI-FAMILY+ RESIDENTIAL CHITECTURAL DESIGN & INTERIOR DESIGN
AMER	A MEMBER FIRM OF THE RICAN INSTITUTE OF ARCHITECTS SINCE198
	MARRIOTT FAIRFIELD
-	290 POWER DRIVE, ATESVILLE, MS 38606
SEAL	
CON U F(BYI C	COPY RIGHTED BY YRON B. CARSON, JR., AIA-ARCHITECT - 2014 DRAWINGS, SPECIFICATIONS, AND DESIGN NCEPTS CONTAINED HEREWITH SHALL NOT BE SED OR REPRODUCED IN WHOLE OR IN ANY ORM, WITHOUT THE WRITTEN CONSENT OF - RON B. CARSON, JR., AIA-ARCHITECT. DO NOT SCALE THESE DRAWINGS. USE GIVEN DIMENSIONS ONLY. IF NOT SHOWN, VERIFY ORRECT DIMENSIONS WITH THE ARCHITECT. ONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION OF THE WORK DESCRIBED HEREIN.
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ISSUE NO.	ES & REVISIONS DATE DESCRIPTION
1	01/19/2016 FOR CONSTRUCTION
PRO.	JECT NAME:
DRAV	JECT NUMBER: WING NAME:
	ST & SECOND FLOOR - CHANICAL
	/N BY: KED BY:
	e 01-19-16 E AS NOTED
DRAW	VING NUMBER

HNA



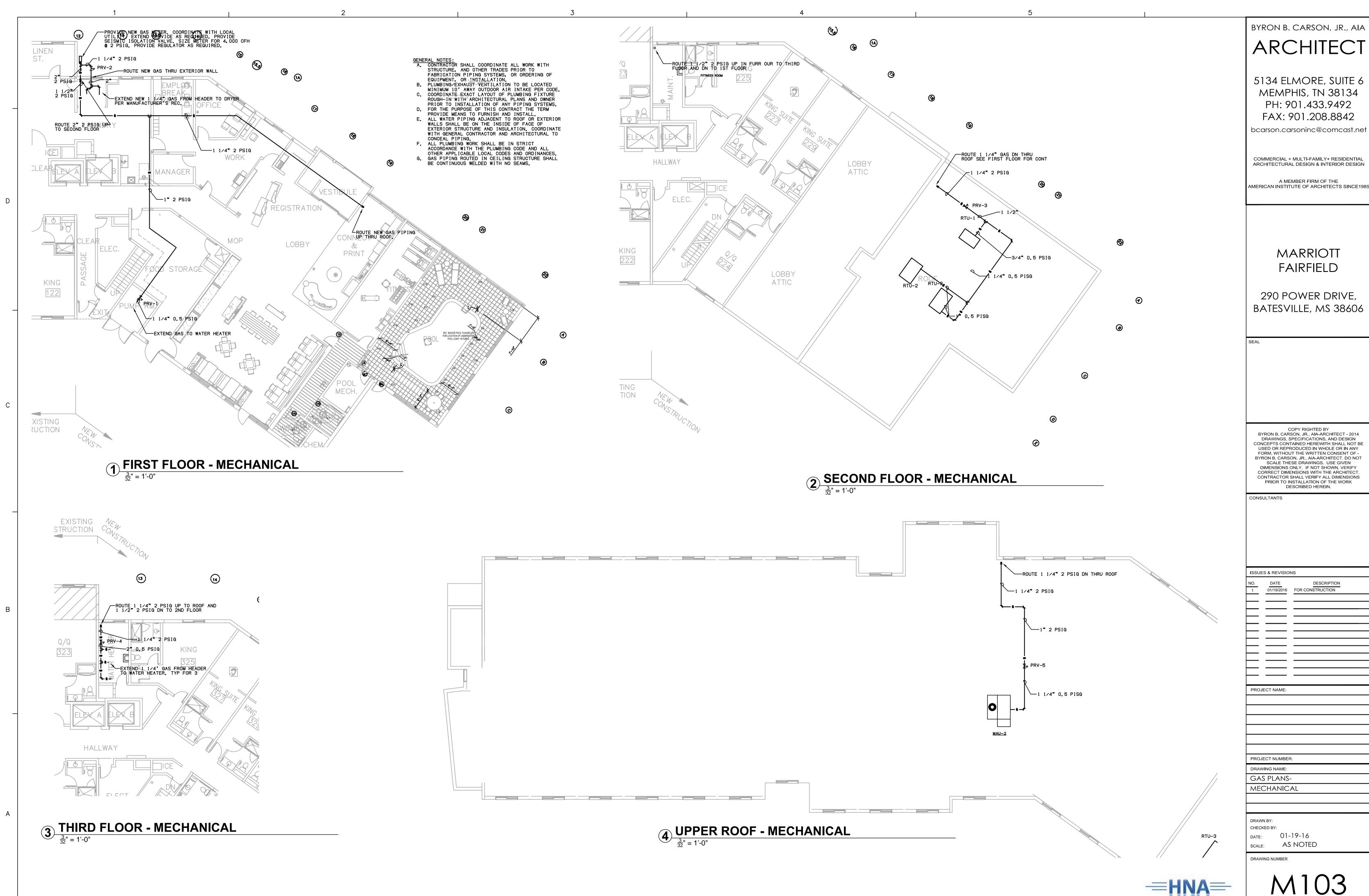
KEYNOTES:

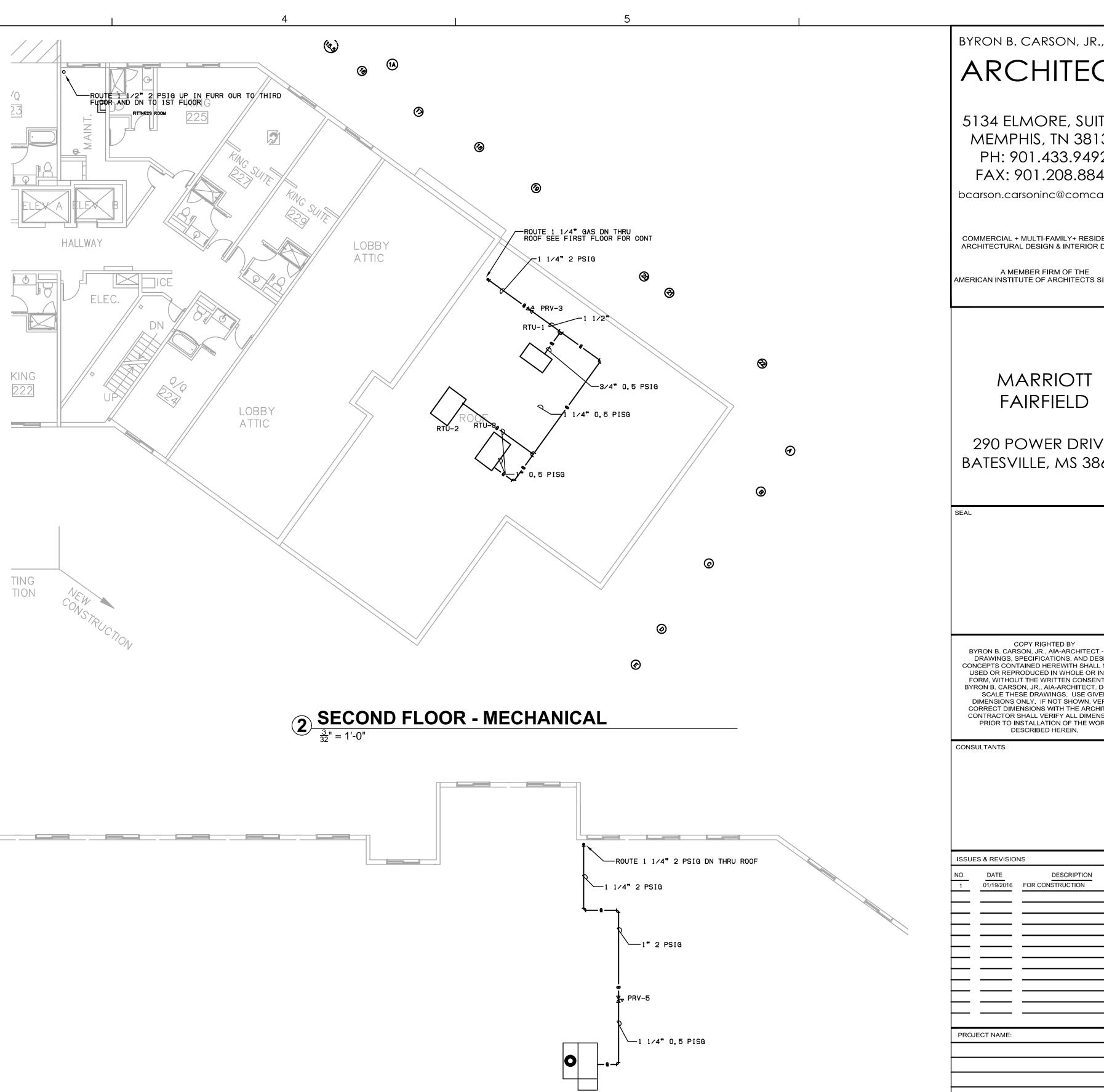
- PROVIDE RATED FAN ENCLOSURE & DAMPER, COORDINATE GRILLE LOCATION WITH OWNER.
- $\langle 2 \rangle$ EXTEND EAD FROM EF-1 UP THRU ROOF WITH GOOSE NECK TYP FOR FOR 3 PER CHASE.
- $\langle 3 \rangle$ EXTEND EAD FROM EF-1 UP THRU ROOF WITH GOOSE NECK TYP FOR
- DETAILS. PROVIDE AUXILIARY DRAIN PAN UNDER ENTIRE UNIT WITH FLOAT SWITCH INTERLOCKED WITH SUPPLY FAN, ROUTE 1-1/4" CONDENSATE DRAIN PIPING FROM DX COIL TO PIPING PROVIDED BY PLUMBING CONTRACTOR. SEE PLUMBING SHEETS FOR EXACT LOCATIONS.CONNECT RAG TO LINED PLENUM 6" AFF.
- 5 PROVIDE CONDENSING UNIT ON EQUIPMENT PAD WITH REFRIGE



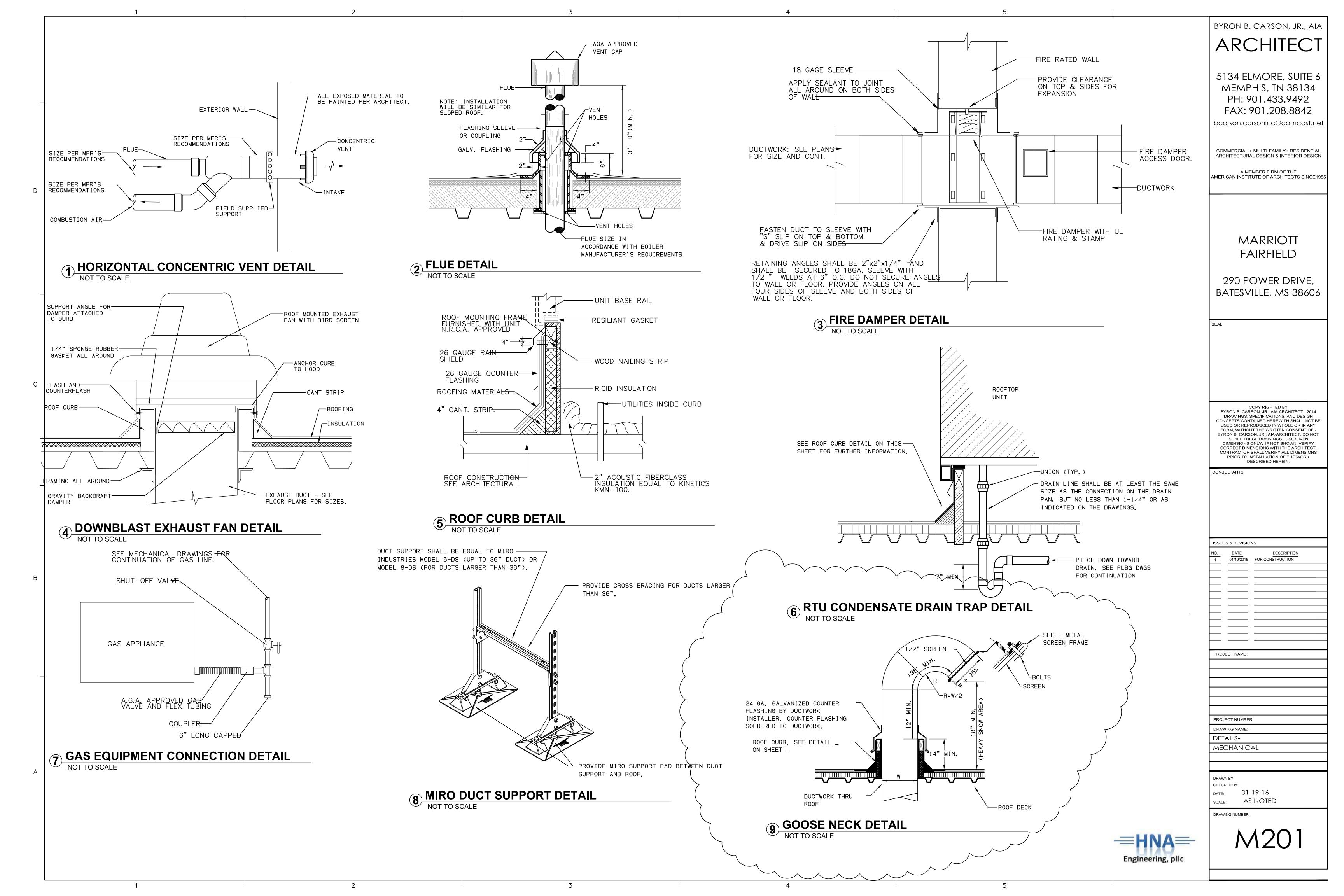
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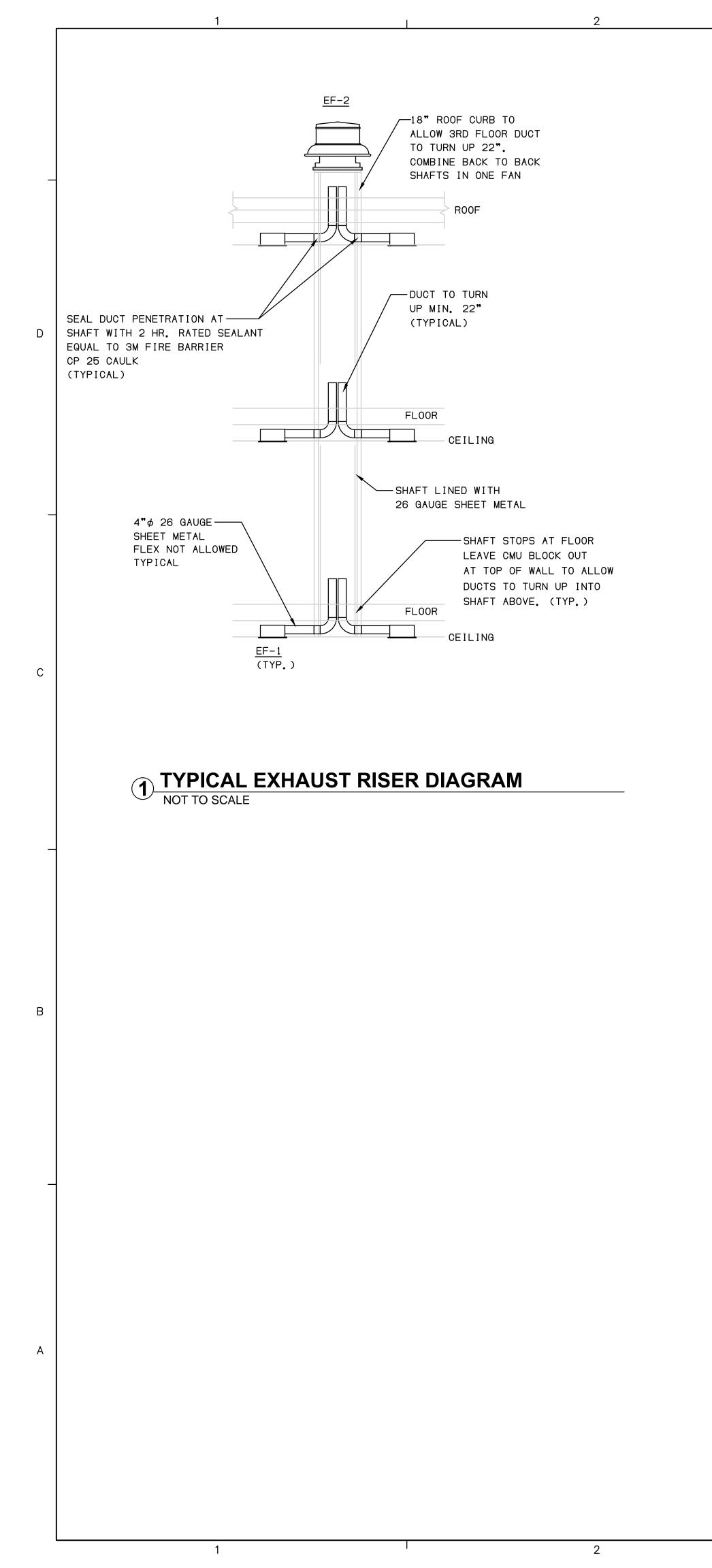
byron B. Carson, Jr., Aia
5134 ELMORE, SUITE 6 MEMPHIS, TN 38134 PH: 901.433.9492 FAX: 901.208.8842 bcarson.carsoninc@comcast.net
COMMERCIAL + MULTI-FAMILY+ RESIDENTIAL
ARCHITECTURAL DESIGN & INTERIOR DESIGN
AMERICAN INSTITUTE OF ARCHITECTS SINCE 1985
MARRIOTT FAIRFIELD 290 POWER DRIVE, BATESVILLE, MS 38606
DATES VILLE, 1413 50000
SEAL
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DIMENSIONS ONLY. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH THE ARCHITECT. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION OF THE WORK
DESCRIBED HEREIN.
ISSUES & REVISIONS
NO.DATEDESCRIPTION101/19/2016FOR CONSTRUCTION
PROJECT NAME:
PROJECT NUMBER: DRAWING NAME:
THIRD FLOOR & ROOF- MECHANICAL
DRAWN BY: CHECKED BY:
DATE: 01-19-16 SCALE: AS NOTED
DRAWING NUMBER
M102

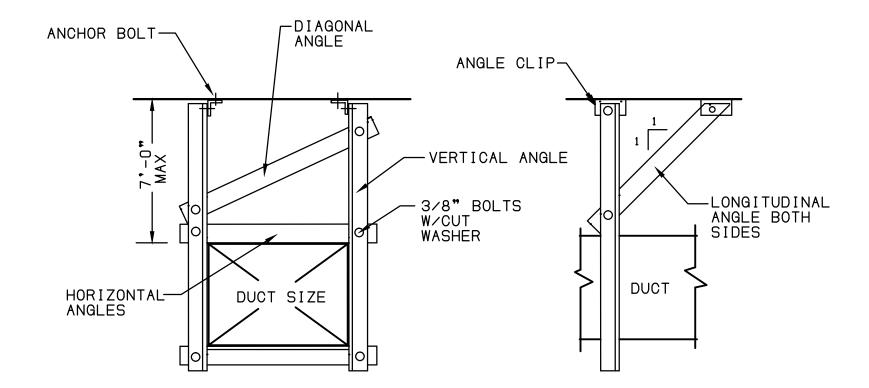










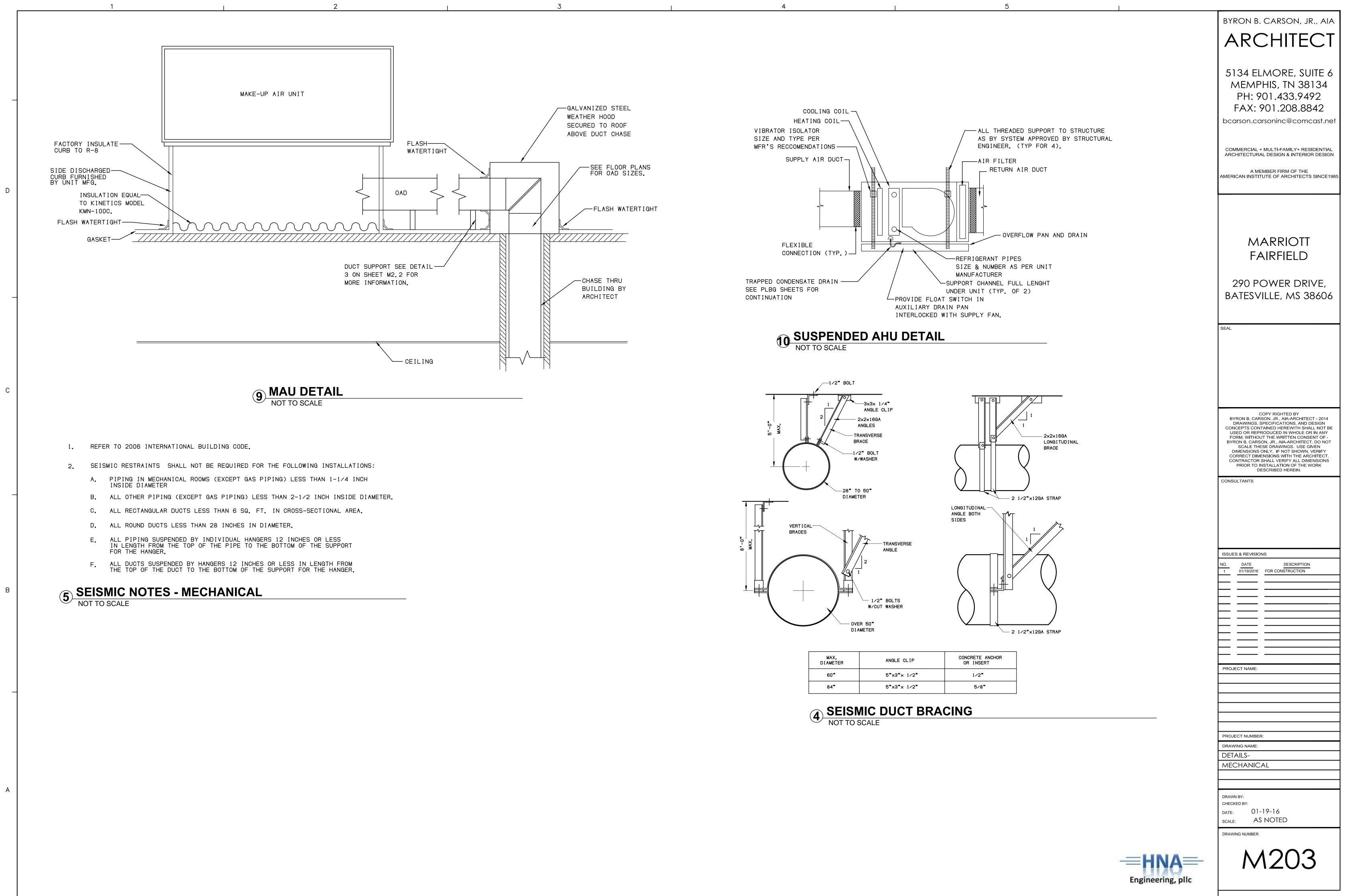


MAX DUCT	BRACIN	G ANGLES	ANGLE	CONCRETE ANCHOR	
DIMENSION	VERTICAL	ALL OTHERS	CLIP	OR INSERT	
UP TO 60"	4×4×12GA	3×3×16GA	3x3x1/4	1/2"	
84"	4×4× 1/4"	4×4×12GA	4×4×1/2	5⁄8 "	
96"	5×3× 1/4"	4×4×12GA	4x4x1/2	5⁄8 "	

3 SEISMIC DUCT BRACING NOT TO SCALE

BYRON B. C	ARSON, JR., AIA
ARC	HITECT
MEMPH PH: 90 FAX: 90	NORE, SUITE 6 IS, TN 38134 1.433.9492 01.208.8842 pninc@comcast.net
ARCHITECTURAL D	JLTI-FAMILY+ RESIDENTIAL DESIGN & INTERIOR DESIGN ER FIRM OF THE E OF ARCHITECTS SINCE1985
FAI 290 PO	RRIOTT RFIELD WER DRIVE, LE, MS 38606
SEAL	
BYRON B. CARSON DRAWINGS, SPEC CONCEPTS CONTAIN USED OR REPROD FORM, WITHOUT T BYRON B. CARSON, SCALE THESE DIMENSIONS ONL CORRECT DIMENS CONTRACTOR SHA PRIOR TO INST,	Y RIGHTED BY I, JR., AIA-ARCHITECT - 2014 CIFICATIONS, AND DESIGN IED HEREWITH SHALL NOT BE UCED IN WHOLE OR IN ANY HE WRITTEN CONSENT OF - JR., AIA-ARCHITECT. DO NOT DRAWINGS. USE GIVEN Y. IF NOT SHOWN, VERIFY IONS WITH THE ARCHITECT. ILL VERIFY ALL DIMENSIONS ALLATION OF THE WORK RIBED HEREIN.
CONSULTANTS	
ISSUES & REVISIONS	DESCRIPTION
1 01/19/2016 FC	DR CONSTRUCTION
$\models = =$	
PROJECT NAME:	
PROJECT NUMBER:	
DRAWING NAME:	
DETAILS- MECHANICAL	
	-16 OTED
	202





MAX. DIAMETER	ANGLE CLIP
60 *	5"×3"× 1/2"
84"	5"×3"× 1⁄2"

System No	b. W-L-5115
Augus	t 13, 2008
<u>F Ratings - 1 an</u>	d 2 Hr (See Item 1)
	and 1 Hr (See Item 5)
Leakage Rating at Ambi	ent - Less Than 1 CFM/sq ft
. Wall Assembly — The 1 or 2 hr fire—rated gypsum bo nd in the manner specified in the individual U300, U400 esistance Directory and shall include the following constr) or V400 Series Wall and Partition Designs in
. Studs — Wall framing may consist of either wood stud y 4 in. (51 by 102 mm) lumber spaced 16 in. (406 m paced max 24 in. (610 mm) OC.	m) OC. Steel studs to be min $2-1/2$ in. (64
. Gypsum Board* — One or Two layers of nom 5/8 in. /all and Partition Design. Max diam of opening is 12 in. he hourly F Rating of the firestop system is equal to th nstalled.	(305 mm).
. Steel Sleeve — (See Table in Item 5.) Nom. 8 in. (20 ipe sleeve friction fit in wall assembly, or max 12 in. (n. (0.330 mm) thick (No. 30 gauge) to max 0.056 in. (nin 1 in. (25 mm) lap along the longitudinal seam. Ends leeve to be installed by coiling the sheet metal to a did nrough the opening and releasing the coil to let it unco . Through Penetrants — One metallic pipe or tubing to restop system. Pipe or tubing to be rigidly supported or f metallic pipes or tubing may be used:	305 mm) diam cylindrical sleeve fabricated fro (1.42 mm) (No. 16 gauge) galv steel sheet ar s of sleeve to be flush with both surfaces of am smaller than the through opening, inserting il against the circular cutouts in the gypsum b be installed either concentrically or eccentrically
. Steel Pipe – Nom 8 in. (203 mm) diam (or smaller) . Iron Pipe – Nom 8 in. (203 mm) diam (or smaller) . Copper Tubing – Nom 4 in. (102 mm) diam (or sma	cast or ductile iron pipe. Iler) Type L (or heavier) copper tubing.
. Copper Pipe — Nom 4 in. (102 mm) diam (or smalle . Pipe Covering* — Nom 1 in. (25 mm) thick hollow cy ber units jacketed on the outside with an all service jac actory— applied self—sealing lap tape. Transverse joints s	lindrical heavy density (min 3.5 pcf or 56 kg/ cket. Longitudinal joints sealed with metal faste secured with metal fasteners or with butt tape
ne product. See Table in Item 5 for annular space requ ee Pipe and Equipment Covering—Materials (BRGU) categ nanufacturers. Any pipe covering material meeting the ab ith a Flame Spread Index of 25 or less and a Smoke I . Firestop System — The firestop system shall consist o	ory in the Building Materials Directory for nam pove specifications and bearing the UL Classific Developed Index of 50 or less may be used.

. Packing Material — (Optional, See Table in Item 5) — Foam backer rod firmly packed into the opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

A1. Packing Material — (See Table in Item 5) — Min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Material* — Caulk — Fill material applied within the annulus, flush with both surfaces of wall or overlapping min 1/4 in. (6 mm) onto wall surfaces when the steel sleeve is used. See Table below for min thickness of fill material. Additional fill material to be installed such that a min 3/8 in. (10 mm) crown is formed around the penetrating item.

*Bearing the UL Classification Marking

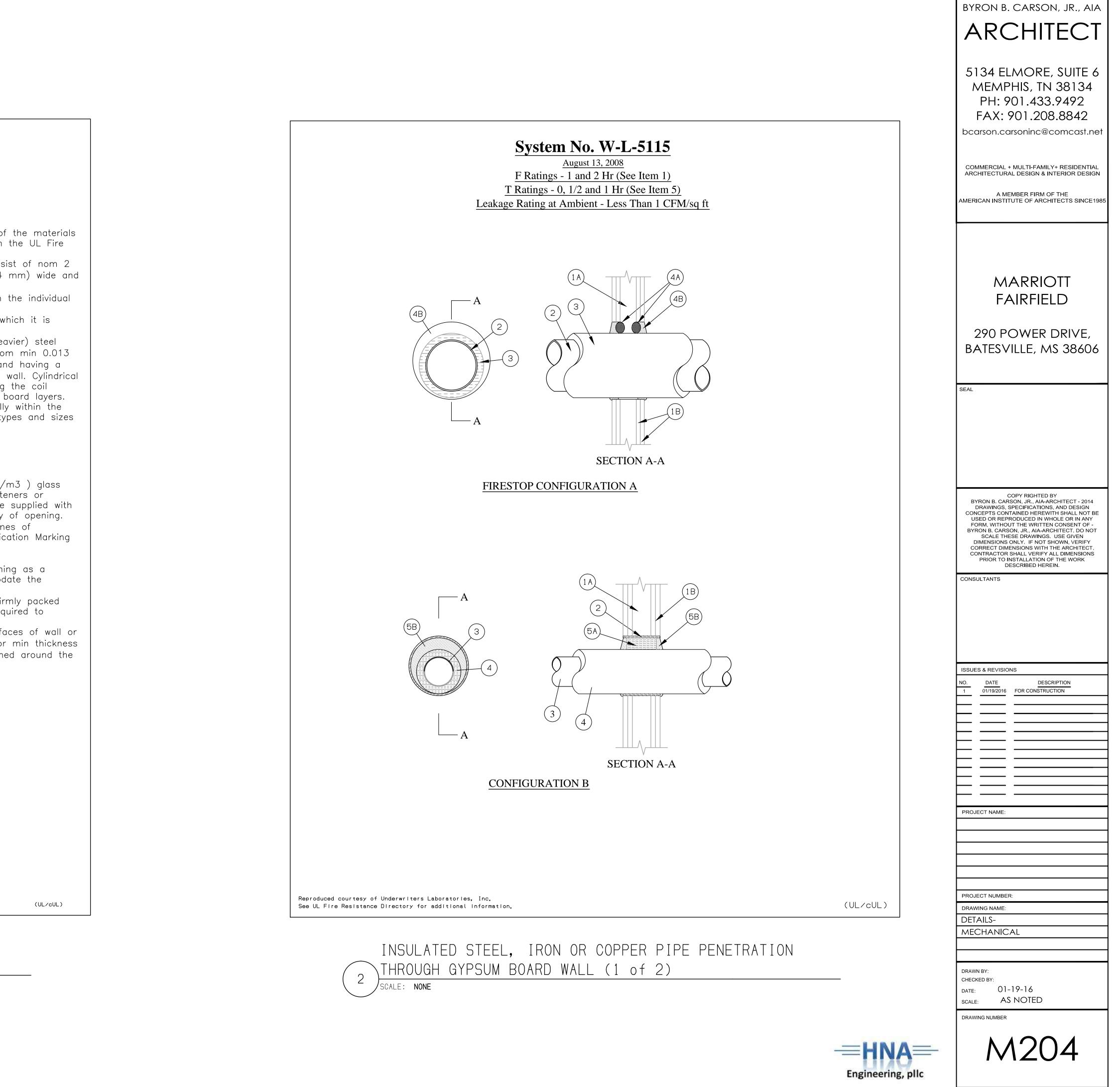
Sleeve	Packing Matl.	Min. Annular	Max. Annular	Min. Fill Material Thickness	T. Rating
None	Opt. Foam Backer	1/4"	1 1/4"	1 **	1 Hr.
Sch. 10	Mineral Wool	0"	1 9×16"	1/2"	O Hr.
Cylindrical	Mineral Wool	0"	1 9×16"	1/2"	O Hr.
Cylindrical	Opt. Foam Backer	0 "	1 3⁄8"	5⁄8"	1/2 Hr.

Reproduced courtesy of Underwriters Laboratories, Inc. See UL Fire Resistance Directory for additional information.



INSULATED STEEL, IRON OR COPPER PIPE PENETRATION THROUGH GYPSUM BOARD WALL (2 of 2) SCALE: NONE

2



				E	XHAUST FAN S	CHEDULE			
			ELECTRIC	CAL DATA					
MARK	MAX	MAX SONE	EST	DISCHARGE	TYPE		MOTOR	VOLTS/	COMMENTS
	CFM	RATING	S.P.W.G	DISCHARGE		YPE DRIVE	WATTS/HP	PHASE	
EF-1	50	1	0.3	WALL	INLINE	DIRECT	25 watts	120/1	1
EF-2	200	5	0.3	WALL	INLINE	DIRECT	1/6	120/1	2
EF-3	75	2.7	0.3	WALL	INLINE	DIRECT	30 WATTS	120/1	3
EF-4	150	5	0.3	WALL	INLINE	DIRECT	80 WATTS	120/1	4
EF-5	75	2.7	0.3	WALL	INLINE	DIRECT	30 WATTS	120/1	3
EF-6	150	2.7	0.3	WALL	INLINE	DIRECT	80 WATTS	120/1	4
EF-7	300	5	0.5	ROOF	ROOF	DIRECT	1/6HP	120/1	5
EF-8	75	5	0.3	ROOF	ROOF	DIRECT	1/6HP	120/1	6
EF-9	75	5	0.3	ROOF	ROOF	DIRECT	1/6HP	120/1	6
EF-10	150	6	0.1	ROOF	ROOF	DIRECT	1/4 HP	120/1	7
EF-11	150	6	0.1	ROOF	ROOF	DIRECT	1/4 HP	120/1	7
EF-12	75	2.7	0.3	WALL	INLINE	DIRECT	80 WATTS	120/1	3
EF-13	75	2.7	0.3	WALL	INLINE	DIRECT	80 WATTS	120/1	3
EF-14	75	2.7	0.3	WALL	INLINE	DIRECT	80 WATTS	120/1	3
EF-15	75	2.7	0.3	WALL	INLINE	DIRECT	80 WATTS	120/1	3

2. FAN TO BE INLINE FAN WITH DISCONNECT INTERLOCKED WITH THERMOSTAT. EQUAL TO GREENHECK

3. FAN TO BE CABINET CEILING MOUNTED FAN WITH GRILLE KIT, DISCONNECT AND INTERLOCKED WITH WALL SWITCH. EQUAL TO GREENHECK

1

4. FAN TO BE INLINE FAN OF ALUMINUM CONSTRUCTION RATED FOR CHEMICAL EXHAUST WITH DISCONNECT AND SPEED CONTROLLER 5. FAN TO BE ROOF MOUNTED FAN OF ALUMINUM CONSTRUCTION RATED FOR CHEMICAL EXHAUST WITH 14" ROOF CURB, MOTORIZED DAMPER I DISCONNECT, INTERLOCED WITH REMOTE SWITCH IN POOL MECHANICAL ROOM, AND SPEED CONTROLLER

6. FAN TO BE ROOF MOUNTED FAN WITH 14" ROOF CURB, MOTORIZED DAMPER INTERLOCKED WITH FAN, DISCONNECT, INTERLOCKED WITH LIGI CONTROLLER

7. FAN TO BE ROOF MOUNTED FAN WITH 14" EXTENDED ROOF CURB, MOTORIZED DAMPER INTERLOCKED WITH FAN, DISCONNECT, INTERLOCKE SPEED CONTROLLER. COORDINATE SIZE OF CURB FOR CONNECTION TO BACK TO BACK EXHAUST CHASES.

VRF INDOOR UNIT SCHEDULE

									-
	GENER	AL DATA		ELECTRI	CAL DATA	COOLING			
MARK	CFM	OSA	EXT IN. WG	MCA	VOLTS∕ PHASE	REFRIGERANT	COOLING BTU/HR	HEATING BTU∕HR	СОМ
I U-1	550	30	N∕A	0.3	208/1	R-410A	17,100	27,000	(1/2)
IU-2	550	30	N∕A	0.3	208/1	R-410A	17,100	27,000	$\left(1\right)\left(2\right)$
IU-3 , 4	300	_	N∕A	0.3	208/1	R-410A	12,000	13,500	(1/2)

(1) UNIT TO BE WALL MOUNTED EQUALTO TRANE . PROVIDE THERMOSTAT CONNECTED TO EMS, DISCONNECT, AND CONDENSATE PUMP.

2

2 PROVIDE EACH INDOOR UNIT WITH REFRIGERNAT BALL VALVES FOR ISOLATION.

1

(3) INSTALL CONDENSATE PIPING PER MANUFACTURER'S RECOMMENDATIONS & PER PLUMBING DRAWINGS.

(4) THE VRF EQUIPMENT SHALL BE SUPPLIED WITH A BACNET MS/TP OR BACNET IP INTERFACE FOR COMMUNICATING WITH THE EMS. UP TO 15 POINTS WILL BE MAPPED IN TO THE EMS FOR SCHEDULING, MONITORING, AND ALARMING FUNCTIONS.

Α

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													\frown			byron b. carson, jr., aia ARCHITECT
					Ρ	TAC S	SCHED	ULE								
	MARK	MANUFACTURE	ER MODE	L CF	м о,			ATING	SEER		ELE	CTRICAL		COMMENTS		5134 ELMORE, SUITE 6 MEMPHIS, TN 38134 PH: 901.433.9492
	740.1					BTU		0208V)	10.0	VOLTS	B PH					FAX: 901.208.8842
	TAC-1	NOT USED		27	0 35	5 7,00		. 82	12.0	208		60 1	4.5	20 (1)	-	bcarson.carsoninc@comcast.net
P	TAC-3	-	-	28	0 38	5 9,00	0 2	. 82	10.2	208	1	60 1	4.5	20 (2)	-	COMMERCIAL + MULTI-FAMILY+ RESIDENTIAL ARCHITECTURAL DESIGN & INTERIOR DESIGN
$\langle 1 \rangle$ $\langle 2 \rangle$	INTERFA PROVID	CE AT FRONT	F DESK. MANU ONFIGURATIO	JFACTURER DN (DISCO	R: MUST	BE ISLAND. WALL SLEE	AIRE EZDI VES, SUB	RO7 -BASES,						ALTERNATE FO		A MEMBER FIRM OF THE AMERICAN INSTITUTE OF ARCHITECTS SINCE 1985
	\frown	\frown	\frown			ELEC	IRIC	UNI	I HE	AFE			10H			
						GENER. SUPPLY	AL DATA		TING		TRICAL	DATA VOLTS/		COMMENTS		
					MARK	AIR-CFM	HEIGH	T (BTU	ACITY J/HR)	KW		PHASE				MARRIOTT FAIRFIELD
					JH-1 JH-2	160 160	12" 12"		250 250	3 3		208/1 208/1				
					JH-3 IH-4	160 700	12 " 8'		250 050	3 5		208/1				290 POWER DRIVE,
					JH-4 JH-5	700 700	8' 8'		050	5 5		208/1 208/1		2		BATESVILLE, MS 38606
					JH-6	700	8'		050	5		208/1		2		
					JH-7 JH-8	160 160	12" 12"		250 250	3 3		208/1 208/1		$ \frac{1}{1} $		SEAL
					JH-9	160	12"	-	250	3		208/1				
					JH-10 JH-11	160 700	12" 8'		250 050	3 5		208/1 208/1				
				TH SE (2) UN	HERMOSTA ELECTED NIT HEAT	AT & DISCO BY ARCHIT	NNECT. U ECT. BE EQUAL	H TO BE TO INDE	RECESSE	ED IN WA Del uci	LL. CO	DLOR OF	ИН ТС	TAMPERPROOF BE TAMPERPROOF		COPY RIGHTED BY BYRON B. CARSON, JR., AIA-ARCHITECT - 2014
					HEA	AT PUI	MP S(CHEDU	JLE							DRAWINGS, SPECIFICATIONS, AND DESIGN CONCEPTS CONTAINED HEREWITH SHALL NOT BE USED OR REPRODUCED IN WHOLE OR IN ANY FORM, WITHOUT THE WRITTEN CONSENT OF - BYRON B. CARSON, JR., AIA-ARCHITECT. DO NOT
-		GENERAL DA	TA		COOLING	i			NG DATA	\	ELECT	RICAL D	DATA		-	SCALE THESE DRAWINGS. USE GIVEN DIMENSIONS ONLY. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH THE ARCHITECT.
	MARK	SERVES	NOMINAL TONNAGE	MIN SEER	AMBIE AIR (°F)	CAPIC	ITY A	IR CA	IEATING APICITY 3TU∕HR)	I HSPE I	MCA	VOLTA PHAS		COMMENTS		CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION OF THE WORK DESCRIBED HEREIN. CONSULTANTS
	HP-1	AHU-1	3	13	105	34, 5	90 4	17 3	33,000	7.7	18	208/	1	$\langle 1 \rangle 2 \langle 3 \rangle$		
	2 MOU 3 SIZ	AT PUMP SHAL	ROOF SUPPO	rt. r manufa IG UN	CTURER'	s recommen SCHED	NDATIONS.									ISSUES & REVISIONS NO. DATE DESCRIPTION 1 01/19/2016 FOR CONSTRUCTION
ELECTR: MOTOR	ICAL DAT		E	X COOLING		SENSIBLE	TOTAL		ECTRIC AIR TEM	HEATING P NO.		ON DATA		COMMENTS		
HP	PHASE		GERANT H		Fwb	BTU/HR	BTU/HR		=db		GES	KW				
1⁄6	208/1	R-4	410A -	77.9 6	65.4	26,560	34, 590)	70		1	8	$\langle 1 \rangle$	$\langle 2 \langle 3 \rangle \langle 4 \rangle$		
R'S RECO ON. PROV ELECTF TO BE F GENERAL GENERAL SERVE	DMMENDATI VIDE VALV RIC RESIS PROVIDED	AMBI AINAL NAGE 4 9 2 9	BERANT PIPI CIALTIES IN SINGLE PT BY ELECTRIC HEAT OOLING DATA IENT COOL IR CAPIO F) (BTU 5 48, 0 5 24, 0	AL CONTR AL CONTR PUMF A ING AMB CITY A (1000	NCE WIT RICAL CO ACTOR AND SIENT AIR 47 47	H EQUIPMEN NNECTION, ND MOUNTED HEDUL DATA HEATING CAPICITY (BTU/HR) 55,000	NT MFR. 'S AUXILIAN D BY MECH ELECTRIC MCA V 21 12	AL DATA OLTAGE/ PHASE 208/3	ENDATIC PAN UN CONTRAC COM	MENTS						PROJECT NAME: PROJECT NUMBER: PROJECT NUMBER: DRAWING NAME: SCHEDULES- MECHANICAL DRAWN BY: CHECKED BY: DRAWN BY: CHECKED BY: DRAWN BY:
NDENSER I ZE REFRI CONSIST	FANS. GERANT P S OF MUL	EQUAL TO T IPING AND P TIPLE MODUL	ROVIDE ALL ES EACH WI	NECESSAF	RY REFRI BLE POIN	GERATION	ACCESSOR CAL CONN	IES PER I	MFR'S F COORDIN	RECOMMEN		IS.				date: 01-19-16 scale: AS NOTED drawing number
CONNECT		IDE NECESSA	NI IUWER, I	NOVIDE L		LUIU, UUN		IV WIKE							10-	

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											-	$\sum_{i=1}^{n}$	ARCHITECT
		PT,	AC S	CHEDU	JLE								
												4	5134 ELMORE, SUITE 6 MEMPHIS, TN 38134
	CFM	OA	COOLI BTUI		I SEER		ELE	CTRIC	AL T		COMMENTS		PH: 901.433.9492
			ВЮ			VOLTS	6 PH	HZ	FLA	MOCP			FAX: 901.208.8842
	270	35	7,000	2.8	12.0	208	1	60	14.5	20	$\langle 1 \rangle$	1 4	bcarson.carsoninc@comcast.net
	280	35	9,000	2.8	10.2	208	1	60	14.5	20	$\langle 2 \rangle$		COMMERCIAL + MULTI-FAMILY+ RESIDENTIAL
													ARCHITECTURAL DESIGN & INTERIOR DESIGN
				LS, SUB-BA VIRE EZDRO [.]	NSES, DRAIN K 7	IIS, FA	CE GRI	LLES,	SOBW	III ALI	ERNATE FO	R COMM LINK	A MEMBER FIRM OF THE AMERICAN INSTITUTE OF ARCHITECTS SINCE1985
				/ES, SUB-B AIRE EZDRC	ASES, DRAIN K 19	ITS, FA	CE GR	ILLES,	SUBN	MIT AL	TERNATE FO	R COMM LINK	
]													
\square	\frown	E	LECI	RICU	NITHE	AFE	BVZ	CHE	BUH	EE >			
			I		HEATING	ELEC	TRICAL			-	AUEL : * ~		
	MARK		UPPLY IR-CFM	MOUNTING HEIGHT	CAPACITY (BTU/HR)	KW		VOLTS/ PHASE		CO	MMENTS		MARRIOTT
	UH-1		160	12"	10, 250	3		208/1			$\overline{\langle 1 \rangle}$		FAIRFIELD
	UH-2		160	12"	10,250	3		208/1			$\langle 1 \rangle$		
	UH-3 UH-4		160 700	12 " 8'	10,250	3 5		208/1			$\overline{\langle 2 \rangle}$		290 POWER DRIVE,
	UH-4 UH-5		700	8'	17,050	5		208/1 208/1			$\langle 2 \rangle$		BATESVILLE, MS 38606
	UH-6		700	8'	17,050	5		208/1			2		
	UH-7 UH-8		160 160	12 " 12 "	10,250	3		208/1			(1)		
	UH-8 UH-9		160	12	10, 250	3		208/1 208/1	_		$\langle 1 \rangle$		SEAL
	UH-1		160	12"	10,250	3		208/1			$\overline{1}$		
	UH-1	1	700	8'	17,050	5		208/1			2		
ا 		I											
$\langle 1$	_				O INDEECO MOD TO BE RECESSE						PERPROOF		
6	SELEC	TED BY	ARCHITE	ECT.									
<u>{</u> 2	-				O INDEECO MOD UNTING BRACKE		WITH U	JNIT-M	IOUNTE	ED TAM	PERPROOF		COPY RIGHTED BY BYRON B. CARSON, JR., AIA-ARCHITECT - 2014
		-										1	DRAWINGS, SPECIFICATIONS, AND DESIGN CONCEPTS CONTAINED HEREWITH SHALL NOT BE
	⊢	IEAT	PUN	AP SCH	HEDULE								USED OR REPRODUCED IN WHOLE OR IN ANY FORM, WITHOUT THE WRITTEN CONSENT OF - BYRON B. CARSON, JR., AIA-ARCHITECT. DO NOT
		LING DA			HEATING DATA		ELECT	FRICAL	. DATA				SCALE THESE DRAWINGS. USE GIVEN DIMENSIONS ONLY. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH THE ARCHITECT.
M I	.N	MBIENT AIR	COOLI CAPIC			MIN	MCA		TAGE	, c	OMMENTS		CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION OF THE WORK DESCRIBED HEREIN.
SE		('F)	(BTU/H	HR) (°F)	(BTU/HR)	HSPF			HASE				CONSULTANTS
1	3	105	34, 59	90 47	33,000	7.7	18	20	08/1	$\langle 1 \rangle$	2/3		
οт													
0 1	RANE MU	DDEL 41	WR OK AI	N APPROVED	EQUAL.								
•													
MAN	UFACTUF	RER'S R	ECOMMEN	DATIONS.									ISSUES & REVISIONS
													NO. DATE DESCRIPTION
												_	1 01/19/2016 FOR CONSTRUCTION
ìl	JNI7	r sc	HEDU	JLE									<u> </u>
	_ING CO	_ 1			ELECTRIC			1					
A db	IR TEM		NSIBLE TU∕HR	TOTAL BTU∕HR	ENT. AIR TEMP • Fdb		OF GES	I NF		CO	MMENTS		
9	65.4	-	6, 560	34, 590	70		1	8		1/2/	3/4	=	
			.,	J-, UJU	, 0		-		. [$\underline{\cdot} \underline{\cdot} \underline{\cdot} \underline{\cdot} \underline{\cdot} \underline{\cdot} \underline{\cdot} \underline{\cdot} $	<u>~/~</u> /		
					TUBING WITH W		COPPER	FITT	INGS.	REFRI	GERANT		PROJECT NAME:
					RECOMMENDATIO DRAIN PAN UN				ᅚᆈᄃ╵				
LLE	UTATOA			NUNILINKI		UCIN CINI	INE UN	411 VVI	FL		, i i Ul ș		
. CO	NTRACTO	DR AND	MOUNTED	BY MECHAN	NICAL CONTRAC	OR.							
							7						
- U			EDUL										PROJECT NUMBER:
IG	HEA1	TING DA	TA E	ELECTRICAL									DRAWING NAME:
TY	AIR	CAP	YICITY	MCA I	TAGE∕ COMM HASE	IENTS							SCHEDULES-
R)	(°F)		U/HR)				1						MECHANICAL
) 	47		,000			$\overline{(3/4)}$	4						
ן נ	47	55,	,000	12 20	08/3	$\langle 3 \langle 4 \rangle$							DRAWN BY:
l cn.		IKIN W	ιτη ναρι		D COMPRESSORS								снескед ву: date: 01-19-16
													scale: AS NOTED
					S PER MFR'S R			NS.					DRAWING NUMBER
					TION. COORDIN WIRE AND INS		н						
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					PTA	C SC	HEDU	JLE								5134 ELMORE, SUITE 6
MARK	MANUFACTUR	R MO	DEL	CFM	OA	COOLIN			SEER		ELE	CTRICAL		COMMENTS		MEMPHIS, TN 38134 PH: 901.433.9492
						BTUH	KW(@2	208V)		VOLTS	PH	HZ FLA	MOCP			FAX: 901.208.8842
PTAC-1 PTAC-2	- NOT USED	-	-	270	35	7,000	2.8	32 1	2.0	208	1	60 14.5	20		-	bcarson.carsoninc@comcast.net
PTAC-3	-		-	280	35	9,000	2.8	32 1	0.2	208	1	60 14.5	20	2	-	COMMERCIAL + MULTI-FAMILY+ RESIDENTIAL
	E PLUG-IN CO								AIN KI	TS, FAC	E GRI	LLES, SUBM	IIT AL	TERNATE FC	⊐ R COMM LINK	ARCHITECTURAL DESIGN & INTERIOR DESIGN
2) provi	ACE AT FRON DE PLUG-IN C FACE AT FRON	ONFIGURAT	ION (D)	ISCONNE	CT) WALL	SLEEVE	S, SUB-B	ASES, DF	RAIN KI	TS, FA	CE GRI	LLES, SUB	MIT AL	TERNATE F	DR COMM LINK	AMERICAN INSTITUTE OF ARCHITECTS SINCE198
		1 DESK. M									2 ~ 5 !	CHEDÙ				
						GENERAL					TRICAL					
			-	MARK	SUP AIR-		MOUNTING HEIGHT	HEATI CAPAC (BTU/I	ITY	KW		VOLTS/ PHASE	CC	MMENTS		MARRIOTT
			-	UH-1	16	30	12"	10,25	50	3		208/1				FAIRFIELD
				UH-2 UH-3	16		12 " 12 "	10,25		3 3	-	208/1 208/1		$\frac{\langle 1 \rangle}{\langle 1 \rangle}$		
			ł	UH-4	7(00	8'	17,05	50	5		208/1		2		290 POWER DRIVE,
				UH-5 UH-6			8' 8'	17,05		5 5	-	208/1 208/1		$\langle 2 \rangle$ $\langle 2 \rangle$		BATESVILLE, MS 38606
					16		12"	10,25		3 3		208/1		$\overline{1}$		
				UH-8 UH-9	16		12" 12"	10, 25		3	_	208/1 208/1		$\frac{1}{1}$		SEAL
				UH-10 UH-11			12 " 8'	10,25		3 5		208/1 208/1		$\overline{1}$ $\overline{2}$		
							0	17,00		0		208/1		~		
					OSTAT & I TED BY AI	DISCONN RCHITEC	ECT. UH T.	TO BE RE	ECESSED) IN WAL	_L. CC	NIT-MOUNTE	TO BE			
				-	OSTAT, D						VIIH C	IN I T-MOUNTE		PERPROUP		COPY RIGHTED BY BYRON B. CARSON, JR., AIA-ARCHITECT - 2014 DRAWINGS, SPECIFICATIONS, AND DESIGN
				Η	EAT	PUM	- SCI	HEDU	LE]	CONCEPTS CONTAINED HEREWITH SHALL NOT BE USED OR REPRODUCED IN WHOLE OR IN ANY FORM, WITHOUT THE WRITTEN CONSENT OF - BYRON B. CARSON, JR., AIA-ARCHITECT. DO NOT
	GENERAL DA	ΓA		COOL	_ING DAT/	٩		HEATING) DATA		ELECT	RICAL DAT	۹.		-	SCALE THESE DRAWINGS. USE GIVEN DIMENSIONS ONLY. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH THE ARCHITECT.
MARK	SERVES	NOM I NAL TONNAGE		INI		COOLING CAPICIT			ATING ICITY	MIN HSPF	MCA	VOLTAGE/ PHASE	/ c	OMMENTS		CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION OF THE WORK DESCRIBED HEREIN.
HP-1	AHU-1	3			(°F) 105	(BTU/HR 34, 590		,	U/HR)	7.7	18	208/1		(2)(3)	-	CONSULTANTS
										I						
	AT PUMP SHAL			RANE MU	DEL 41WB	UR AN	APPROVEL) EQUAL.								
	ZE REFRIGER/						TIONS									
(0) 01																ISSUES & REVISIONS
	AIR HA															NO. DATE DESCRIPTION 1 01/19/2016 FOR CONSTRUCTION
RICAL DA				LING CO				ELEC	TRIC H	EATING	SECTI	ON DATA			_	
VOLT	S/ REERI	GERANT	ENT. A	IR TEMP	SENS		IOIME	ENT. AII	R TEMP	NO.	OF	INPUT	C	DMMENTS		
208/		110A	•Fdb 77.9	• Fwb			BTU/HR 34,590	• Fd.		STAG	3ES	KW 8	$\overline{(1/2)}$	(3)(4)		
						-	., 200			· ·		-	<u>-///</u>			
	APPROVED EQU															
	IONS. REFRIC										OPPER	FITTINGS.	REFR	IGERANT		PROJECT NAME:
RIC RES	STANCE HEAT,	SINGLE	PT. ELE	ECTRICAL	_ CONNECT	ION, AU	JXILIARY	DRAIN P	AN UND	ER ENTI	RE UN	IT WITH FL	.0AT S	WITCH,		
PROVIDED	AND WIRED E	BY ELECTR	ICAL CO	NTRACTO	R AND MO	UNTED E	BY MECHAN	NICAL CO	NTRACTO	OR.						
	VRF	HEAT	- PU	MP (SCHEI	DULE										
L DATA		OOLING DA			ING DATA		ECTRICAL	DATA								PROJECT NUMBER:
	MINAL AMBI		OLING PICITY	AMBIEN1 AIR	T HEAT CAPIC		A I	TAGE	СОММЕ	ENTS						drawing name: SCHEDULES-
	INNAGE (*	F) (B ⁻	(U/HR)	('F)	(BTU/	HR)		HASE								MECHANICAL
-1,2 STEM 3,4	4 9		,000	47	55,0			08/3	(1)(2)							
STEM	2 9	b 24	,000	47	55,0	00 1	2 20	08/3	$\langle 1 \rangle 2 \rangle$	$(3\chi 4)$						DRAWN BY: CHECKED BY:
FANS.	E EQUAL TO T															DATE: 01-19-16 SCALE: AS NOTED
	PIPING AND P _TIPLE MODUL											5.				DRAWING NUMBER
	VIDE NECESSA													-116		N N 2 O 1

2			$\overline{)}$	\sim				4					5					
				· · · · /			\frown	\frown	\sim	\checkmark	\searrow	\frown	\sim		\frown	$\overline{}$		BYRON B. CARSON, JR., AIA
EXHAUST FAN SC	HEDULE	1			2													ARCHITECT
TA		ELECTRICA																
E TYPE	DRIVE	MOTOR	VOLTS/	COMMENTS	$\langle \langle \rangle$					РТА	C SCH	HEDULE						
		WATTS/HP	PHASE														2	5134 ELMORE, SUITE 6
INLINE	DIRECT	25 watts	120/1	1							COOLING	HEATING			ELECTRICAL			MEMPHIS, TN 38134
INLINE	DIRECT	1/6	120/1	2	$\langle \langle \rangle$		MARK MANU	JFACTURER	MODEL CFM	AO	BTUH	KW(@208V)	SEER	VOLTS	PH HZ	LA MOCP	ıts ζ	PH: 901.433.9492
INLINE	DIRECT	30 WATTS	120/1	3													=) FAX: 901.208.8842
INLINE	DIRECT	80 WATTS	120/1	4	$\langle \langle \rangle$	F	PTAC-1	-	- 270	35	7,000	2.82	12.0	208	1 60 1	4.5 20 1		bcarson.carsoninc@comcast.ne
INLINE	DIRECT	30 WATTS	120/1	3		F	PTAC-2 NO	DT USED										4
INLINE	DIRECT	80 WATTS	120/1	4		F	PTAC-3	-	- 280	35	9,000	2.82	10.2	208	1 60 1	4.5 20 2		COMMERCIAL + MULTI-FAMILY+ RESIDENTIAL
ROOF	DIRECT	1/6HP	120/1	5	$\langle \langle \rangle$													
ROOF	DIRECT	1/6HP	120/1	6					MANUFACTURER:				DRAIN KI	IIS, FACE	GRILLES, S	SUBMIT ALTERNATE	FUR COMM LINK	A MEMBER FIRM OF THE AMERICAN INSTITUTE OF ARCHITECTS SINCE1
ROOF	DIRECT	1/6HP	120/1	6	$\langle \langle \langle$	(2	angle provide pl	UG-IN CONFIGUE		IECT) WALL	_ SLEEVES,	SUB-BASES,	DRAIN K	ITS, FAC	E GRILLES,	SUBMIT ALTERNATE	E FOR COMM LINK	ĸ
ROOF	DIRECT	1/4 HP	120/1	7		7	INTERFACE	AT FROM DESK.									\neg	
ROOF	DIRECT	1/4 HP	120/1	7			\sim	\checkmark		Λ El	ECIR	I,C UNI	J HE	AFER	~SCHEE	JOLE ~~		
INLINE	DIRECT	80 WATTS	120/1	3 <							GENERAL D				RICAL DATA			
INLINE	DIRECT	80 WATTS	120/1	3					MAF	SUI	PPLY MO		ATING ACITY	KW	VOLTS/	COMMENTS		MARRIOTT
INLINE	DIRECT	80 WATTS	120/1	3 <	$\langle \rangle$					AIR	R-CFM H		U/HR)		PHASE			
INLINE	DIRECT	80 WATTS	120/1	3)				UH-	-	160 160		, 250	3	208/1	$\langle 1 \rangle$	_	FAIRFIELD
									UH- UH-				, 250	3	208/1 208/1			
ITH THERMOSTAT. EQUAL TO					ζ				UH-	-4 7	700	8' 17,	,050	5	208/1	2		290 POWER DRIVE,
									UH-		700		,050	5	208/1	2	_	BATESVILLE, MS 38600
IT, DISCONNECT AND INTERL					\langle				UH- UH-		700 160		, 050 , 250	с З	208×1 208×1		\neg	
D FOR CHEMICAL EXHAUST W)				UH-		160		, 250	3	208/1			SEAL
ECHANICAL ROOM, AND SPE		OF CORD, MOTORIZED		UNED WITH FAIN,					UH-				, 250	3	208/1			
			D WITH LIGHT AN		\langle				UH- UH-		160 700		, 250 , 050	3 5	208/1 208/1			
															200/1			
CURB, MOTORIZED DAMPER CTION TO BACK TO BACK EX)				THEF SELE (2) UN I T	RMOSTAT & CTED BY A HEATER S	DISCONNEC ARCHITECT. SHALL BE E	T. UH TO BE	RECESSE EECO MOD	D IN WALI EL UCI WI	COLOR OF	UNTED TAMPERPROO UH TO BE UNTED TAMPERPROO		COPY RIGHTED BY
			$ \land \land \land \land \land$									SCHED						BYRON B. CARSON, JR., AIA-ARCHITECT - 2014 DRAWINGS, SPECIFICATIONS, AND DESIGN CONCEPTS CONTAINED HEREWITH SHALL NOT B USED OR REPRODUCED IN WHOLE OR IN ANY FORM, WITHOUT THE WRITTEN CONSENT OF - BYRON B. CARSON, JR., AIA-ARCHITECT. DO NO SCALE THESE DRAWINGS. USE GIVEN
							GEN	ERAL DATA		OLING DAT			ING DATA		ELECTRICAL	DATA		DIMENSIONS ONLY. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH THE ARCHITECT. CONTRACTOR SHALL VERIFY ALL DIMENSIONS
							MARK S	ERVES NOMIN	NAL MIN	AMBIENT AIR	CAPICITY		HEATING APICITY		MCA VOLTA		3	PRIOR TO INSTALLATION OF THE WORK DESCRIBED HEREIN.
										(°F)	(BTU/HR)	(°F) (BTU/HR)					CONSULTANTS
							HP-1 /	AHU-1 3	13	105	34,590	47	33,000	7.7	18 208			
							_		QUAL TO TRANE I	MUDEL 41W	B OK AN AF	PROVED EQUA	L.					
							$\langle 2 \rangle$ MOUNT L	JNIT ON ROOF S	UPPORT.									
							⟨3⟩ SIZE RE	EFRIGERANT PIP	E PER MANUFACT	JRER'S RE		IONS.						
																		ISSUES & REVISIONS
																		NO. DATE DESCRIPTION 1 01/19/2016 FOR CONSTRUCTION
							AI	r handi	ING UNI	T SCH	HEDUI	F						
				GENERAL DATA		FLECTR	RICAL DATA		DX COOLING C				FOTRIC	HEATING 9	SECTION DATA	A		
					EXT.	MOTOR	VOLTS/		ENT. AIR TE				AIR TEMF	-				
			MARK	CFM OSA	S.P.W.G.	HP	PHASE	REFRIGERANT	•Fdb •Fv				Fdb	STAGE				
			AHU-1	1125 140	0.25	1/6	208/1	R-410A	77.9 65.	4 26,	560 34	4,590	70	1	8	1/2/3/4		
			L	,			I	I	_ I	I	I	I		-	I			
				COIL UNIT SHALL BE														
			2 SIZE	REFRIGERANT PIPE P NG TO HAVE 3/8" ARM	ER MANUFACTU	RER'S REC	OMMENDATIONS.	REFRIGERANT	PIPING SHALL B	E TYPE AC	R DRAWN CO	OPPER TUBING	WITH WE	ROUGHT CC	PPER FITTIN	NGS. REFRIGERANT		PROJECT NAME:
				IDE 7 DAY PROGRAMMA														
R UNIT SCHEDUL	E		DISC	ONNECT, & 1" PLEATE	D FILTER.													
DATA COOLING/HE	ATING DATA		<a> <br< td=""><td>LY AND RETURN DUCT</td><td>SMOKE DETECT</td><td>OR TO BE</td><td>PROVIDED AND</td><td>WIRED BY ELEC</td><td>TRICAL CONTRAC</td><td>TOR AND M</td><td>IOUNTED BY</td><td>MECHANICAL</td><td>CONTRACT</td><td>FOR.</td><td></td><td></td><td></td><td></td></br<></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br>	LY AND RETURN DUCT	SMOKE DETECT	OR TO BE	PROVIDED AND	WIRED BY ELEC	TRICAL CONTRAC	TOR AND M	IOUNTED BY	MECHANICAL	CONTRACT	FOR.				
VOLTS/ REFRIGERANT	COOLING HEATING	COMMENTS							T PUMP									
PHASE	BTU/HR BTU/HR												1					PROJECT NUMBER:
208/1 R-410A	17,100 27,000	$\left< 1 \right< 2 \right< 3 \right< 4$				GENERAI		COOLING AMBIENT	DATA HEA	ATING DAT	A ELEC	TRICAL DATA	-					DRAWING NAME:
208/1 R-410A	17,100 27,000	$\langle 1 \rangle \langle 2 \rangle \langle 3 \rangle \langle 4 \rangle$			MARK	SERV	ES NOMINAL TONNAGE	AIR (CAPICITY AIR	CAPI	CITY MCA	VOLTAGE/ PHASE	COMN	IENTS				SCHEDULES-
208/1 R-410A	12,000 13,500	$\langle 1 \rangle 2 \langle 3 \rangle 4 \rangle$						(°F)	(BTU/HR) (°F									MECHANICAL
	,				HP-2	515	TEM 4	95	48,000 47	55, 1	000 21	208/3		$\overline{3}4$				
					HP-3	3 U-3 SYST	,4 TEM 2	95	24,000 47	55, 1	000 12	208/3	1/2	$\overline{3}4$				DRAWN BY:
E THERMOSTAT CONNECTED TO I	EMS, DISCONNECT, AN	ND CONDENSATE							······································									CHECKED BY:
VALVES FOR ISOLATION.						HEAT PUMP		AL TO TRANE, M	MITSUBISHI OR E	DAIKIN WIT	IH VARIABL	E SPEED COMF	RESSORS	AND				date: 01-19-16 scale: AS NOTED
VALVES FOR ISOLATION. ECOMMENDATIONS & PER PLUMB	ING DRAWINGS				_			G AND PROVIDE	ALL NECESSARY	REFRIGERA	ATION ACCE	SSORIES PER	MFR'S R	ECOMMEND	ATIONS.			DRAWING NUMBER
NET MS/TP OR BACNET IP INTE	·								H WITH A SINGLE									
DR SCHEDULING, MONITORING,						CONTRACTOF		NECESSARY POWE	ER. PROVIDE DIS	JUNNECTS.	CONTRAC	IUK IU WIRE	AND INS	IALL				$\lambda \lambda 2 \cap 1$

			4						5							
		\checkmark		\checkmark		\sim	\frown	\checkmark	\sim	\frown		\checkmark	\sim		$\overline{}$	BYRON B. CARSON, JR., AIA
						PT	AC S	CHEDU	LE							5134 ELMORE, SUITE 6
					054		COOL I	NG HEATI			ELE	CTRICAL				MEMPHIS, TN 38134
	MARK	MANOF	ACTURER	MODEL	CFM	OA	BTUH	H KW(@20	SEER	VOLTS	PH	HZ FLA	моср	COMMENTS		PH: 901.433.9492 FAX: 901.208.8842
>	PTAC-	1	-	_	270	35	7,000	2,82	2 12.0	208	1	60 14.5	5 20	$\langle 1 \rangle$		bcarson.carsoninc@comcast.ne
,	PTAC-		USED		280	35	9,000	2.82	2 10.2	208	1	60 14.5	5 20	$\langle 2 \rangle$		
7																COMMERCIAL + MULTI-FAMILY+ RESIDENTIAL ARCHITECTURAL DESIGN & INTERIOR DESIGN
		ERFACE AT	FRONT DES	SK. MANUFA	CTURER:	MUST BE	ISLANDA	IRE EZDR07							R COMM LINK	A MEMBER FIRM OF THE AMERICAN INSTITUTE OF ARCHITECTS SINCE 19
7	\smile					MUST BE	ISLAND/	AIRE EZDROS	9							
	\sim	\frown	\checkmark	\sim		<u> </u>		<u> </u>					LE			
					MAF			L DATA MOUNTING	HEATING CAPACITY	ELEC1	TRICAL	DATA VOLTS/	COM	IENTS		MARRIOTT
					UH-	A	IR-CFM	HEIGHT	(BTU/HR) 10, 250	3		PHASE		1>		FAIRFIELD
					UH- UH-	-2	160	12" 12"	10,250 10,250	3		208/1		$\frac{1}{1}$		
					UH-	-4	700	8' 8'	17,050	5		208/1 208/1		$\frac{1}{2}$		290 POWER DRIVE, BATESVILLE, MS 38606
					UH- UH-	-6	700	8'	17,050 17,050	5		208/1 208/1		2>		
					UH- UH-	-8	160 160	12" 12"	10,250 10,250	3		208/1 208/1	<			SEAL
					UH- UH-		160 160	12 " 12 "	10,250 10,250	3 3		208/1 208/1				
					UH-	-11	700	8'	17,050	5		208/1	(3	2>		
									INDEECO MO					RPROOF		
						ECTED BY	ARCHITE	CT.	INDEECO MO					RPROOF		
									INTING BRACK							COPY RIGHTED BY BYRON B. CARSON, JR., AIA-ARCHITECT - 2014 DRAWINGS, SPECIFICATIONS, AND DESIGN CONCEPTS CONTAINED HEREWITH SHALL NOT BI
						HEAT	PUN	IP SCH	IEDULE							USED OR REPRODUCED IN WHOLE OR IN ANY FORM, WITHOUT THE WRITTEN CONSENT OF - BYRON B. CARSON, JR., AIA-ARCHITECT. DO NOT SCALE THESE DRAWINGS. USE GIVEN
		GENEF	RAL DATA			OLING DA	ATA COOLII		HEATING DAT T HEATING		ELECT	RICAL DAT				DIMENSIONS ONLY. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH THE ARCHITECT. CONTRACTOR SHALL VERIFY ALL DIMENSIONS
	MA	RK SE	RVES I	MINAL NNAGE	MIN SEER	AIR (°F)	CAPICI (BTU/H		CAPICIT (BTU/HR		MCA	VOLTAGE> PHASE		IMENTS		PRIOR TO INSTALLATION OF THE WORK DESCRIBED HEREIN. CONSULTANTS
	HP	-1 AH	HU-1	3	13	105	34, 59	0 47	33,000	7.7	18	208/1	$\langle 1 \rangle \langle 2$	2/3/		
	$\langle 1 \rangle$	HEAT PUN	IP SHALL BE	E EQUAL T	0 TRANE	MODEL 4T	WB OR AN	N APPROVED	EQUAL.							
	(2)	MOUNT UN	NIT ON ROOF	SUPPORT	•											
	3	SIZE REF	RIGERANT F	PIPE PER	MANUFACT	URER'S F	RECOMMEN	DATIONS.								ISSUES & REVISIONS
																NO. DATE DESCRIPTION 1 01/19/2016 FOR CONSTRUCTION
		AIF	r hane) LING	UNI	T SC	HEDU	JLE								
	TOR	DATA OLTS/		ENT	. AIR TE		A NSIBLE	TOTAL E	ELECTRIC ENT. AIR TEM			ON DATA INPUT	СОМ	MENTS		
		PHASE	REFRIGERA	• Fc				BTU/HR	• Fdb	STAC)ES	KW			_	
5 1	/6 2	08/1	R-410A	77.	9 65.	4 2	6,560	34,590	70			8	(1)(2)(3)	<u>X4</u> >		
	EL FHP OR															
SULATION	. PROVIDE	VALVES AN	ND SPECIAL	TIES IN A	CCORDANC	E WITH E	EQUIPMEN	T MFR.'S R	JBING WITH V ECOMMENDATI	ONS.						PROJECT NAME:
₹.									DRAIN PAN U		NE UN	II WIIN FL	LONI 201	100,		
TECTOR TO	U BE PROV.								ICAL CONTRAG	JIOR.						
			VRF H													PROJECT NUMBER:
	ENERAL DAT	NOMINAL	AMBIENT	NG DATA	G AMBIE		ATING	ELECTRICAL		MMENTS						DRAWING NAME:
MARK	SERVES	TONNAGE	AIR (°F)	CAPICI (BTU/HF			VICITY I U/HR)	MCA I	ASE							SCHEDULES- MECHANICAL
HP-2	IU-1,2 SYSTEM U-3,4	4	95	48,000			·			$2\sqrt{3}\sqrt{4}$						
HP-3	SYSTEM	2	95	24,000	47	55	,000	12 208	8/3 (1)	2\3\4						DRAWN BY: CHECKED BY:
CONDE	ENSER FANS	•							COMPRESSOR							date: 01-19-16 scale: AS NOTED
\leq									PER MFR'S ION. COORDI			IS.				DRAWING NUMBER
CONTR									WIRE AND IN				_	-118	A	N A 2 O 1

4

 $\langle 4 \rangle$ THE VRF EQUIPMENT SHALL BE SUPPLIED WITH A BACNET MS/TP OR BACNET IP INTERFACE FOR COMMUNICATING WITH THE EMS. UP TO 15 POINTS WILL BE MAPPED IN TO THE EMS FOR SCHEDULING, MONITORING, AND ALARMING FUNCTIONS.



PACKAGED ROOFTOP UNIT SCHEDULE

				ELECTRICAL				CC	OOLING	
MARK	CFM	OSA	MOTOR	MCA	VOLTS/	REFRIGERANT		EMP	SENSIBLE	TOTAL
			HP		PHASE		ENT AIR	LVG AIR	BTU/HR	BTU/HR
RTU-1	800	80	1/2	10	208/1	R410A	80	67	16,000	24,000
RTU-2	3,000	600	2	8	208/3	R410A	80	67	72,000	90,000
RTU-3	3,000	600	2	8	208/3	R410A	80	67	72,000	90,000

 $\langle 1 \rangle$ RTU TO BE EQUAL TO TRANE WITH 14" HIGH ROOF CURB, GAS HEAT WITH STAINLESS STEEL HEAT EXCHANGERS, 7 DAY PROGRAMMABLE THERMOSTAT WITH BATTERY BACK-UP.

 $\langle 2 \rangle$ RTU TO BE EQUAL TO TRANE MODEL YSC WITH 14" HIGH ROOF CURB, 0-100% DUAL ENTHALPY ECONOMIZER WITH POWER EXHAUST, GAS HEAT WITH STAINLESS STEEL HEAT EXCHANGERS, HAIL GUARDS, 7 DAY PROGRAMMABLE THERMOSTAT WITH BATTERY BACK-UP, AND HINGED ACCESS DOORS. PROVIDE SMOKE DETECTOR FOR SUPPLY & RETURN.

		CONDE	ENSIN	G UNI	T SCH	IEDU	LE	
G	ENERAL DAT	A	C	COOLING DA	TA	ELECT	RICAL DATA	
MARK	SERVES	NOMINAL TONNAGE	MIN SEER	AMBIENT AIR (°F)	COOLING CAPICITY (BTU/HR)	MCA	VOLTAGE/ PHASE	COMMENTS
CU-1, 2, 3	CRU-1,2,3	2	13	105	22, 500	28	208/1	$\langle 1 \rangle \langle 2 \rangle$

 $\langle 1 \rangle$ UNIT TO BE EQUAL TO TRANE. PROVIDE LOW AMBIENT CONTROL, DISCONNECT, & STARTER. $\overline{\langle 2 \rangle}$ SIZE REFRIGERANT PIPE PER MANUFACTURER'S RECOMMENDATIONS.

		MII	NI SPL	IT C	OMPU	JTER RO	NOM UN	IIT SC	HEDULE		
GENE	RAL DATA			CO	OLING D	АТА			HEATING	DATA	
MARK	SUPPLY	REFRIGERANT	AMBIENT	ENT AIF	R TEMP	SENSIBLE	TOTAL	SEER	TOTAL	HSPF	COMMENTS
	CFM	TYPE		db'F	wb F	BTU∕HR	BTU∕HR		BTU∕HR		
CRU-1,2,3	600	R-410A	105°F	72	61	14,500	22,500	13	20,000	7.8	$\langle 1 \rangle$

(1) UNIT TO BE EQUAL TO TRANE. PROVIDE WIRED CONTROLLER WITH BACNET INTERFACE TO JCI CONTROLS, CONDENSATE PUMP. INDOOR UNIT TO RECEIVE POWER FROM OUTDOOR UNIT THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE

2

							PO	OL DEHUI	MIDIFIE	ER SCHEDULE	-								
	GENERAL DATA								ICATION ING	DEHUMIDIFICATION HEATING	SUPPLEMENTAL	BLOWER		ELEC.	TRICAL	DATA		UNIT	
MARK	MANUFACTURER	MODEL NUMBER	SUPPLY CFM	OSA	ESP IN. WG	TOTAL COOL CAP.	SENSIBLE COOL CAP.	82°F/60%	82°F⁄50%	HEATING	HEATING	HP	VOLTS	PHASE	HERTZ	MCA	MAX FUSE	WEIGHT	COMMENTS
DH-1	SERESCO	_	1200	220	1.0	38.4	20	_	_	62.3 MBH	12.5 KW	1.5	208	3	60	63	_	-	$\langle 1 \rangle \langle 2 \rangle \langle 3 \rangle$

1 UNIT TO BE SERESCO NO SUBSTITUTES CONTACT TOM WHITELY AT 443 832 1657

2 PROVIDE DISCONNECT, LOW AMBIENT CONTROL TO 0'F, HAIL GUARDS, HEAVY GAUGE ALUMINUM CASING, REFRIGERANT PIPING SIZED PER MANUFACTURER, AND REFRIGERANT SPECIALTIES PER MANUFACTURER RECOMMENDATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.

 $\langle 3 \rangle$ provide 5 year compressor warranty with 1 year parts and labor warranty for all components.

Tag	Supply CFM	Outside CFM	ESP (in wg)	Coil EADB	Coil EAWB	Coil LADB	Coil LAWB	Unit LADB	RH %	Total Cap (MBH)	Sen Cap (MBH)	SA Fan HP	Heat Type	Heater EADB	Heater LADB	Heat Input	Heat Output	Voltage	MCA	Op Weight	Model String
MAU-1	2200	2200	1.5	91.1	80.2	54.42	54.22	75	48	191.4	83.65	3	Nat. Gas Heat	17	109	270.0 MBH	218.7 MBH	208/3	77	3074 lbs	RNA-016-C-0-3-AAA02-DB1K0
1	Summer Desig	n Conditions b	ased on ASHI	RAE .4% Eva	poration Colu	umn															
2	Units to have	modulating ho [.]	t gas re-heat	for dehumid	ification (on,	off not ac	ceptable) and	deliver 75 F	@ 50% RH	(max) air at deisgn c	onditions										
3	Units to have	hot gas bypass	on ALL circui	its																	
4	units to have	modulating gas	heat furnace	es with Stainl	ess Steel HX	carrying 25	year non-pro	-rated warra	nty												
5	Cabinet const	ruction is 2" do	uble wall wit	h foam injec	ted panels w	vith R-13 ins	sulation value														
6	2500 Salt Spra	y Tested exter	ior paint																		
7	Factory install	led electrical di	sconnect for	single point	wiring																
8	ECM Condens	er fan motors f	for condense	r head press	ure control (\	VFD Conde	nser Fans acco	eptable)													
9	Direct Drive P	lenum Supply F	an with unit r	mounted VFE) (belt driven	fans not a	cceptable)														
10	Phase and bro	wnout protect	ion monitor																		
11	18" High fully	welded insulate	ed solid botto	om curb																	
12	Unit to be hor	rizontal dischar	ge from the e	end of the ur	it opposite t	he OA hoo	b														
13		teley with HAV	-		• •			all pricing													

GAS HEAT

BTU/HR

38,880

145,800

145,800

ENT

AIR

55

55

55

HEATING NUMBER OF

STAGES

3

3

3

COMMENTS

1

2

2

1

В

1

AIR D	ISTRIE	BUTION	DEVICE S	SCHEDULE
NECK SIZE	FACE SIZE	MAX. N.C. RATING	MAXIMUM S.P. DROP, IN.	COMMENTS
6 " ¢	12×12	30	0.1	
8 " ¢	24×24	30	0.1	$\langle 1 \rangle$
10 " ø	24×24	30	0.1	$\langle 1 \rangle$
-	16X12	30	0.1	3
6 " ¢	12X12	30	0.1	2
22X22	24X24	30	0.1	$\langle 2 \rangle$
14X14	24×24	30	0.1	$\langle 4 \rangle$
8 " ø	1 * X42 *	30	0.1	(5)
1 Oø	1"X48"	30	0.1	6
-	1 O X 8	30	0.1	$\langle 3 \rangle$
-	24X12	30	0.1	$\langle 7 \rangle$
2 0 10¢	1 " X72 "	30	0.1	$\langle 6 \rangle$

	air d	ISTRIE	BUTION	DEVICE	SCHEDULE
MARK	NECK SIZE	FACE SIZE	MAX. N.C. RATING	MAXIMUM S.P. DROP, IN.	COMMENTS
A	6 " ¢	12×12	30	0.1	
В	8 " ø	24×24	30	0.1	
С	10 " ¢	24×24	30	0.1	
D	-	16X12	30	0.1	3
E	6 " ¢	12X12	30	0.1	2
F	22X22	24X24	30	0.1	2
G	14X14	24×24	30	0.1	
Н	8 " ø	1 * X42 **	30	0.1	5
	10φ	1 " X48 "	30	0.1	6
U	-	10X8	30	0.1	3
K	_	24X12	30	0.1	
I	2 0 10ø	1 " X72 "	30	0.1	6

 $\langle 1 \rangle$ SUPPLY AIR DEVICE TO BE EQUAL TO NAILOR RNS WITH FACTORY INSULATED BACK. 2 RETURN/EXHAUST AIR DEVICE TO BE NAILOR 4260 EGG CRATE. $\overline{\langle 3 \rangle}$ SUPPLY AIR DEVICE TO BE NAILOR 51DV. COLOR TO BE SELECTED BY ARCHITECT. $\overline{\langle 4 \rangle}$ RETURN/EXHAUST AIR DEVICE TO BE NAILOR 4260AA RATED FOR POOL ENVIRONMENT. (5 SUPPLY AIR DEVICE TO BE ALUMINUM CONSTRUCTION EQUAL TO NAILOR FLH

WITH INSULATED PLENUM. RATED FOR POOL ENVIRONMENT

4

4

3

6 SUPPLY AIR DEVICE TO BE EQUAL TO NAILOR FLH WITH INSULATED PLENUM.

 $\langle 7 \rangle$ RETURN AIR DEVICE TO BE NAILOR 51FH. COLOR TO BE SELECTED BY ARCHITECT.

PRV SCHEDULE			
MARK	PRESSURE (P.S.I.G)		CFH
	INGOING	OUTGOING	
PRV-1	2.0	0.5	250
PRV-2	2.0	0.5	500
PRV-3	2.0	0.5	500
PRV-4	2.0	0.5	750
PRV-5	2.0	0.5	350
PRV-6	2.0	0.5	350



byron b. carson, jr., aia ARCHITECT
5134 ELMORE, SUITE 6 MEMPHIS, TN 38134 PH: 901.433.9492 FAX: 901.208.8842 bcarson.carsoninc@comcast.net
COMMERCIAL + MULTI-FAMILY+ RESIDENTIAL ARCHITECTURAL DESIGN & INTERIOR DESIGN A MEMBER FIRM OF THE AMERICAN INSTITUTE OF ARCHITECTS SINCE1983
MARRIOTT FAIRFIELD 290 POWER DRIVE, BATESVILLE, MS 38606
SEAL
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ISSUES & REVISIONS
NO. DATE DESCRIPTION
1 01/19/2016 FOR CONSTRUCTION
PROJECT NAME:
PROJECT NUMBER:
SCHEDULES-
MECHANICAL
drawn by: checked by: date: 01-19-16 scale: AS NOTED
DRAWING NUMBER
M302