

Canadian County Purchasing

Addendum

Date Issued:

April 18, 2016

Bid Number:

2016-#20

Closing Date:

May 16, 2016 at 9:30am

PO Box 458, 201 N. Choctaw Ave., El Reno, OK 73036

Opening Date:

May 16, 2016 at 9:30am

Commissioner's Meeting Room, 201 N. Choctaw Ave., El Reno, OK 73036

~ ADDENDUM~

Roof Replacement / County Commissioners

Please see attached addendum number (1) one to the plans and specifications for the roof replacement and HVAC System for the Canadian County Administration Building.

For more information contact:

Tom Ratanasin, AIA
Boynton Williams & Associates

Phone: (405) 329-0423

Hours: Monday - Friday 8:00am to 4:00pm

Address: 900 36th Avenue NW, Suite 100, Norman, OK 73072

Email: tomr@bwaarchitects.com

Witness my hand and seal this 5th day of May 2016.

(SEAL)

If you have any questions or need additional information, please contact: Sherry Murray, Purchasing Agent, 405.295.6125 or 405.422.2441 smurray@okcana.cogov.net



ARCHITECTURE

PLANNING

INTERIORS

NORMAN

DALLAS

TULSA

900 36TH AVENUE NW

SUITE 100

NORMAN, OK 73072

405-329-0423

FAX 405-364-1439

A Professional Corporation

Member: American Institute of Architects

ADDENDUM NUMBER ONE

TO THE PLANS AND SPECIFICATIONS FOR

CANADIAN COUNTY ADMINISTRATION BUILDING RE-ROOF AND HVAC REPLACEMENT 200 N. CHOCTAW AVE. EL RENO, OKLAHOMA 73036 ARCHITECT'S PROJECT NUMBER N16001

May 5RD, 2016

The following items, applicable to the work designated, shall be understood to be an Addendum, and as such, shall be included in the Contract Documents.

General Contractor is to inform all subcontractors and suppliers of the Addendum items as appropriate or applicable to their portion of the work.

Clarifications:

- Existing roof condition: EPDM single ply roof system w/ ½" recover board over 3ply built-up roofing system. Field verify.
- 2. Existing antenna on roof shall be removed and discarded.
- 3. Mandatory Pre-bid Meeting attendance lists. See following pages.

<u>Mechanical, plumbing and electrical addendum:</u> - Following pages



END OF ADDENDUM

MECHANICAL ADDENDUM NO. 1

Roof Replacement & HVAC Renovation CANADIAN COUNTY OFFICE BUILDING 201 N. CHOCKTAW AVE. EL RENO, Oklahoma 73036

PROJECT NO. N16001 DATE: 05/05/2016

NOTICE:

The following amendments, additions, deletions, and/or corrections are hereby made to the drawings and specifications where applicable to accomplish the following.

MECHANICAL ITEMS:

GENERAL MECHANICAL ITEMS:

Item No. 1 TEMPORARY MECHANICAL COOLING AND HEATING

- a. The contractor shall provide temporary heating and cooling in areas that the owner leaves personnel in. The spaces shall be maintained at a minimum of 68 degrees in the heating season and a maximum of 77 degrees F in the cooling season. The owner will remove personnel to the extent possible, however some space may have personnel. The use of spot cooling and heating is allowed.
- b. It is believed that the HVAC renovation work will be completed prior to the overall building needing heat. If the contractor runs into the heating season, all area's of the building will be furnished with temporary heating to maintain all areas above freezing.

REFERENCE THE DRAWINGS:

Item No. 1 Refer to Sheet 2M2 FIRST FLOOR MECHANICAL PLAN

- a. Add FCU2-26 as indicated. The contractor shall bid this item as HVAC Alt #1.
- b. Add Keyed Note 11.

Item No. 2 Refer to Sheet 2M3 MECHANICAL ROOF PLAN

- a. Refer to A/2M3, Add locations of keyed notes 6 and 7 as indicated. The contractor shall replace all fan curbs as noted.
- b. Add Keved Notes 6 and 7
- c. Add General Note 5.

Item No. 3 Refer to Sheet 2M4 BASEMENT HYDRONIC PIPING PLAN

- a. Add piping to FCU2-26 as indicated. The contractor shall bid this piping as HVAC Alt #1.
- b. Cap 1 1/2" CHS/CHR in southeast corner as indicated.

Item No. 4 Refer to Sheet 2M5 FIRST FLOOR HYDRONIC PIPING PLAN

a. Add piping to FCU2-26 as indicated. The contractor shall bid this piping as HVAC Alt #1.

Item No. 5 Refer to Sheet 5M1 MECHANICAL SCHEDULES

- 1. Refer to FAN COIL UNIT SCHEDULE.
- a. Add FCU2-26 to this schedule.
- b. Modify note 4 as indicated.

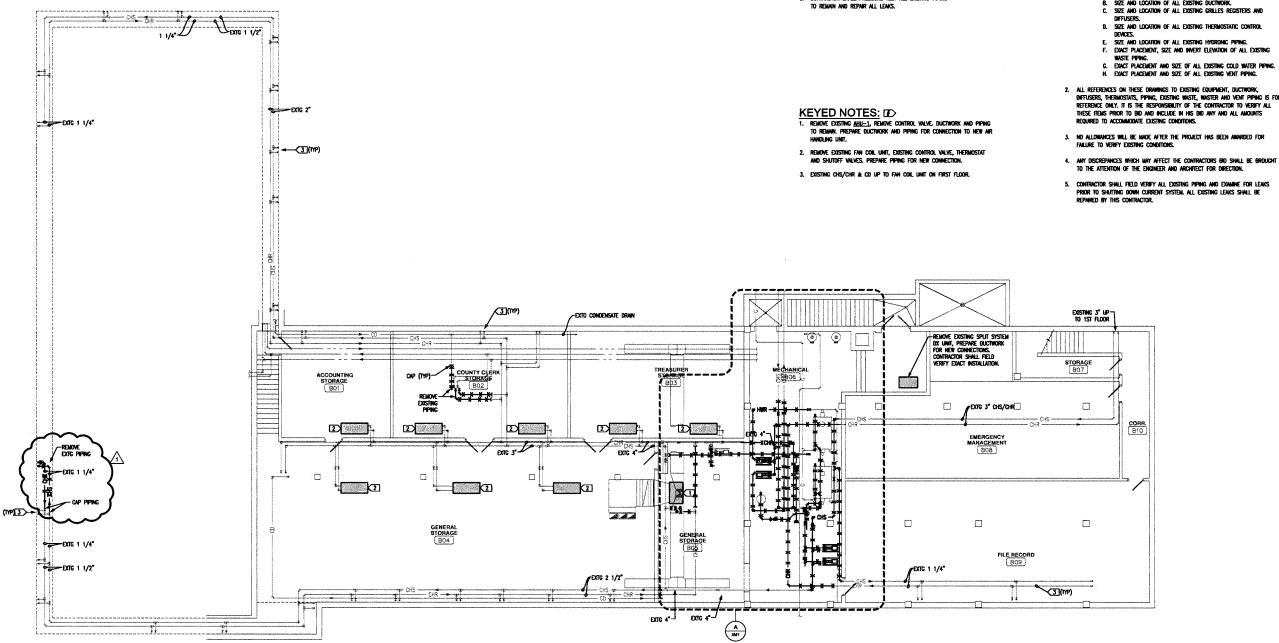
Item No. 6 Refer to Sheet 2MD1 BASEMENT MECHANICAL DEMOLITION FLOOR PLAN

a. Remove and Cap 1 1/4" CHS/CHR in southeast corner as indicated.

Item No. 7 Refer to Sheet 2MD2 FIRST FLOOR MECHANICAL DEMOLITION PLAN

a. Remove 1 1/4" CHS/CHR in southeast corner as indicated.

END OF MECHANICAL ADDENDUM NO. ONE



A BASEMENT MECHANICAL DEMOLITION FLOOR PLAN SCALE: 1/8°-1'-0°

DEMOLITION NOTES:

REMOVING ALL EXISTING MECHANICAL EQUIPMENT

2. REMOVE ALL EXISTING PIPING AS INDICATED B AN "X" WARK. CAP OR PLUG AS NECESSARY.

3. CONTRACTOR SHALL PRESSURE TEST ALL EXISTING PIPING

- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID. THE FOLLOWING ITEMS SHALL BE VERIFIED
 - A. EXACT PLACEMENT, SIZE, CAPACITY, MANUFACTURER AND CONDITION OF ALL EXISTING HAIC EQUIPMENT WITHIN SCOPE OF WORK, WHETHER SPECIFICALLY SHOWN OR NOT.

 SIZE AND LOCATION OF ALL EXISTING CURVORK.

 C. SIZE AND LOCATION OF ALL EXISTING GRALES REGISTERS AND

 - DIFFUSERS.

 D. SIZE AND LOCATION OF ALL EXISTING THERMOSTATIC CONTROL
 - DEVICES.

 E. SIZE AND LOCATION OF ALL EXISTING HYDRONIC PIPMG.

 F. EXACT PLACEMENT, SIZE AND INVEST ELEVATION OF ALL EXISTING
- ALL REFERENCES ON THESE DRAWINGS TO EXISTING EQUIPMENT, DUCTNORK, OHFTUSERS, THERMOSTATS, PIPMIC, EXISTING WASTE, WASTER AND VENT PIPMIC IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERRY ALL THESE TIPMS PROR TO BO AND NICLIDES IN HIS BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- NO ALLONANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
- ANY DISCREPANCES WHICH MAY AFFECT THE CONTRACTORS 6ID SMALL BE GROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.
- 5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPMS AND EXAMINE FOR LEAKS PROOR TO SHUTTING DOWN CURRON SYSTEM. ALL EXISTING LEAKS SHALL BE REPAIRED BY THIS CONTRACTOR.



ARCHITECTURE PLANNING

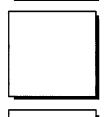
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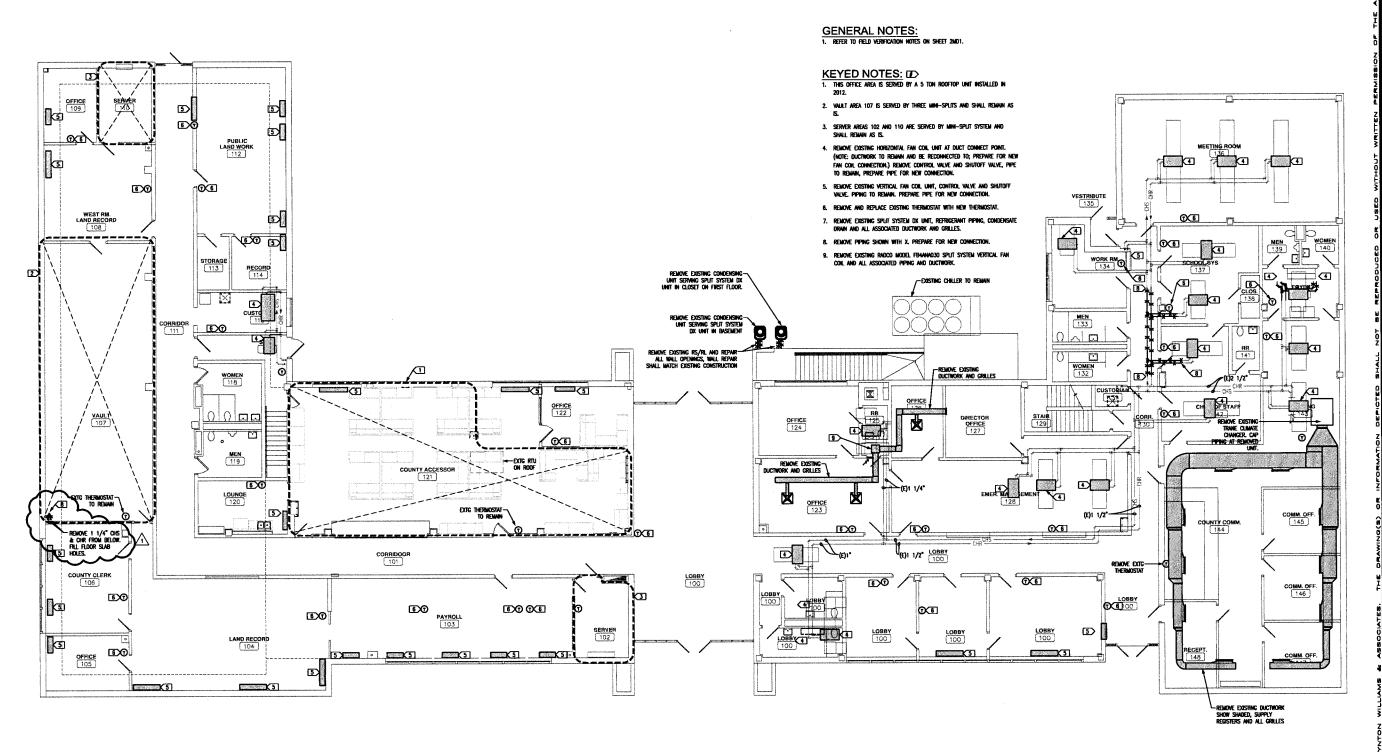
Roof Replacement & HVAC Renovation CANADIAN COUNTY OFFICE BUILDING 201 N. CHOCKTAW AVE.
EL RENO, OKLAHOMA 73036

Revisions 5/5/16 ADDENDUM 1

03.29.16

N16001

2MD1





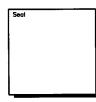


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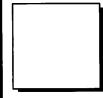
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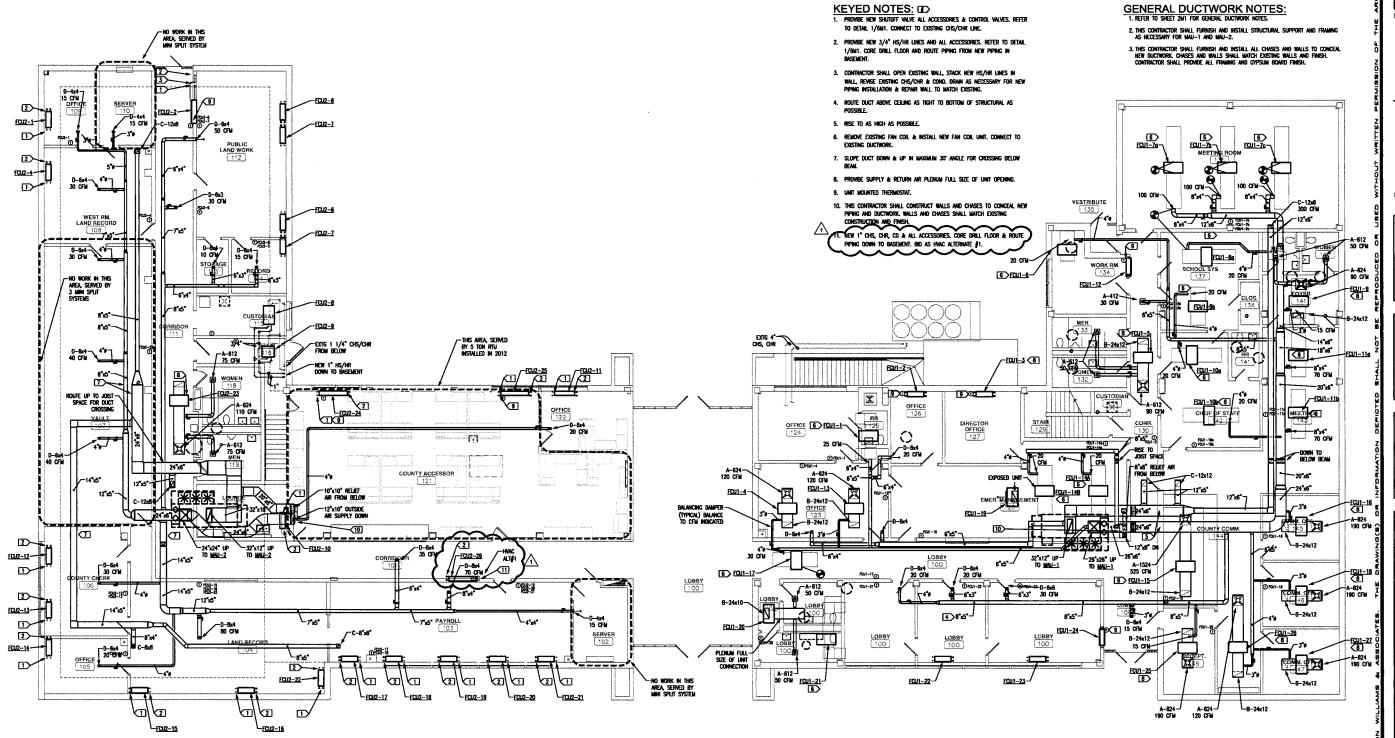
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2MD2







ARCHITECTURE PLANNING

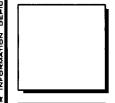
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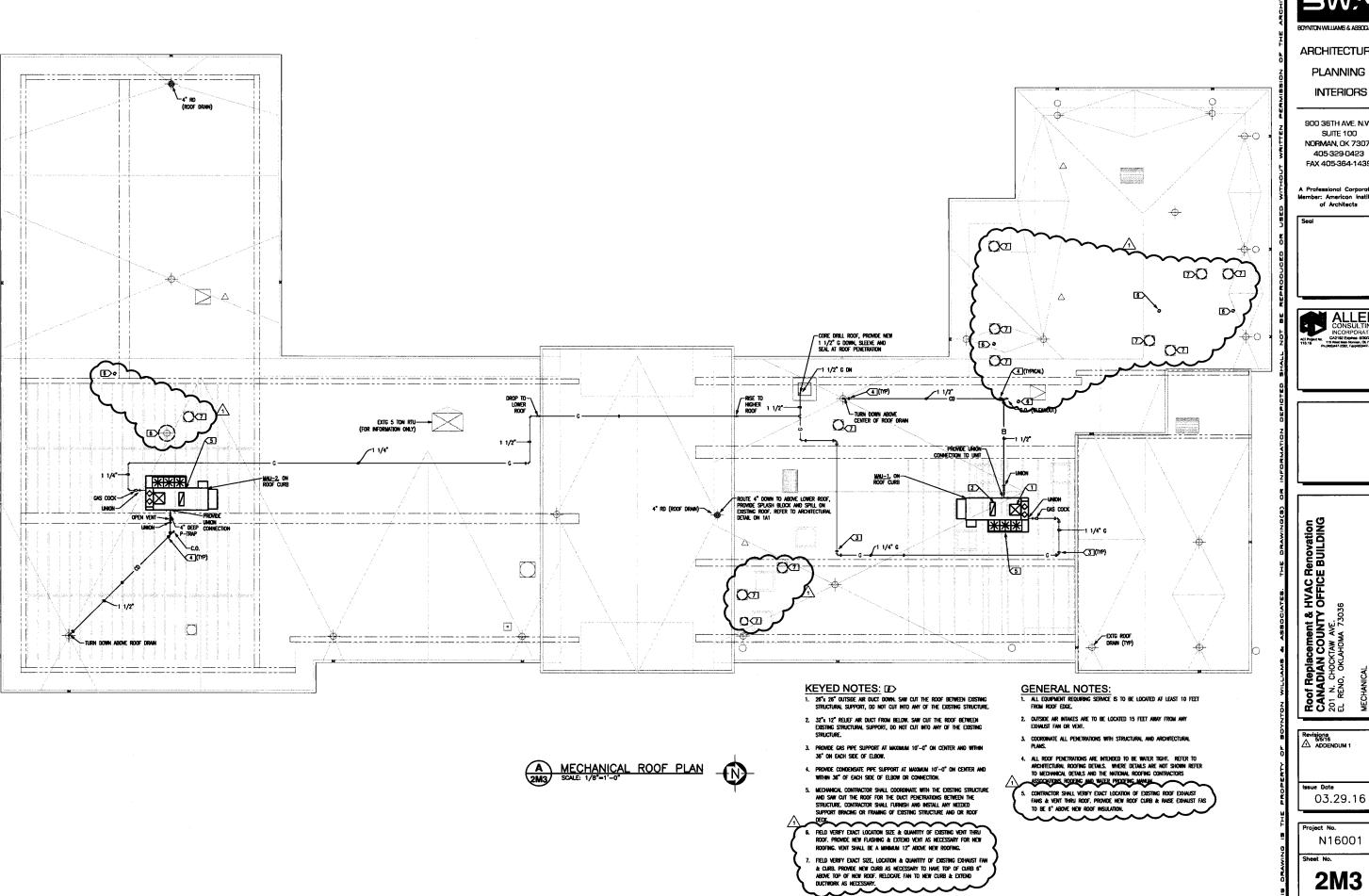
HVAC Renovation OFFICE BUILDING Roof Replacement & H CANADIAN COUNTY C 201 N. CHOCKTAW AVE. EL RENO, OKLAHOMA 73036

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eet No. **2M2**





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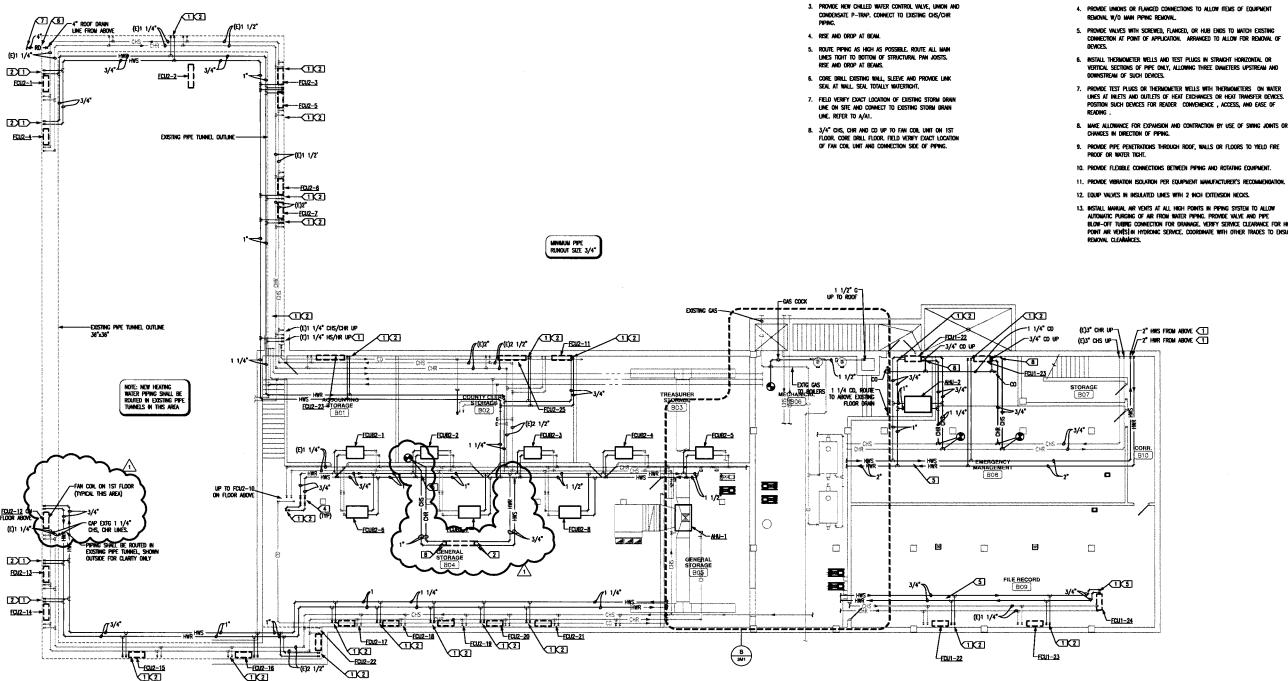
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N16001

2M3



A BASEMENT HYDRONIC PIPING PLAN
SCALE: 1/8"=1'-0"

GENERAL PIPING NOTES:

KEYED NOTES: ID

1. SLEEVE AND FIRE SEAL HS AND HR (HEATING WATER SUPPLY AND HEATING WATER RETURN) LINES AT RATED WALL PENETRATION, AND AT ALL WALL PENETRATIONS.

COIL UNIT AND CONNECTION SIDE OF PIPING.

2. 3/4° HS AND HR UP TO FAN COIL UNIT ON 1ST FLOOR. CORE DRILL FLOOR. FIELD VERIFY EXACT LOCATION OF FAN

- FOR TYPICAL STEAM, WATER AND REFRIGE SEE STANDARD EQUIPMENT DETAILS.
- Water Pipe Connections to air heating and cooling coils shall be made to provide counter flow between water and air.
- 3. ACCESS PANELS IN SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC.
- 5. PROVIDE VALVES WITH SCREWED, FLANGED, OR HUB ENDS TO MATCH EXISTING CONNECTION AT POINT OF APPLICATION. ARRANGED TO ALLOW FOR REMOVAL OF
- 6. INSTALL THERMOMETER WELLS AND TEST PLUGS IN STRAIGHT HORIZONTAL OR VERTICAL SECTIONS OF PIPE ONLY, ALLOWING THREE DIAMETERS UPSTREAM AND DOWNSTREAM OF SUCH DEVICES.
- MAKE ALLOWANCE FOR EXPANSION AND CONTRACTION BY USE OF SWING JOINTS OR CHANGES IN DIRECTION OF PIPING.
- PROMOE PIPE PENETRATIONS THROUGH ROOF, WALLS OR FLOORS TO YIELD FIRE PROOF OR WATER TIGHT.
- 10. PROVIDE FLEXIBLE CONNECTIONS BETWEEN PIPING AND ROTATING EQUIPMENT.

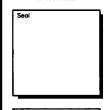
- 13. INSTALL MANIAL AIR VENTS AT ALL HIGH POINTS IN PIPING SYSTEM TO ALLOW AUTOMATIC PURGING OF AIR FROM WATER PIPING. PROVIDE VALVE AND PIPE BLOW-OFF TUBING CONNECTION FOR DRAININGS. VERBY SERVICE CLEARANCE FOR HIGH POINT AIR VENTS IN HYDROING SERVICE. COORDINATE WITH OTHER TRADES TO BISIRE REMOVAL CLEARANCES.

BWA BOYNTON-WILLIAMS & ASSOCIATES

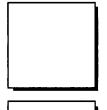
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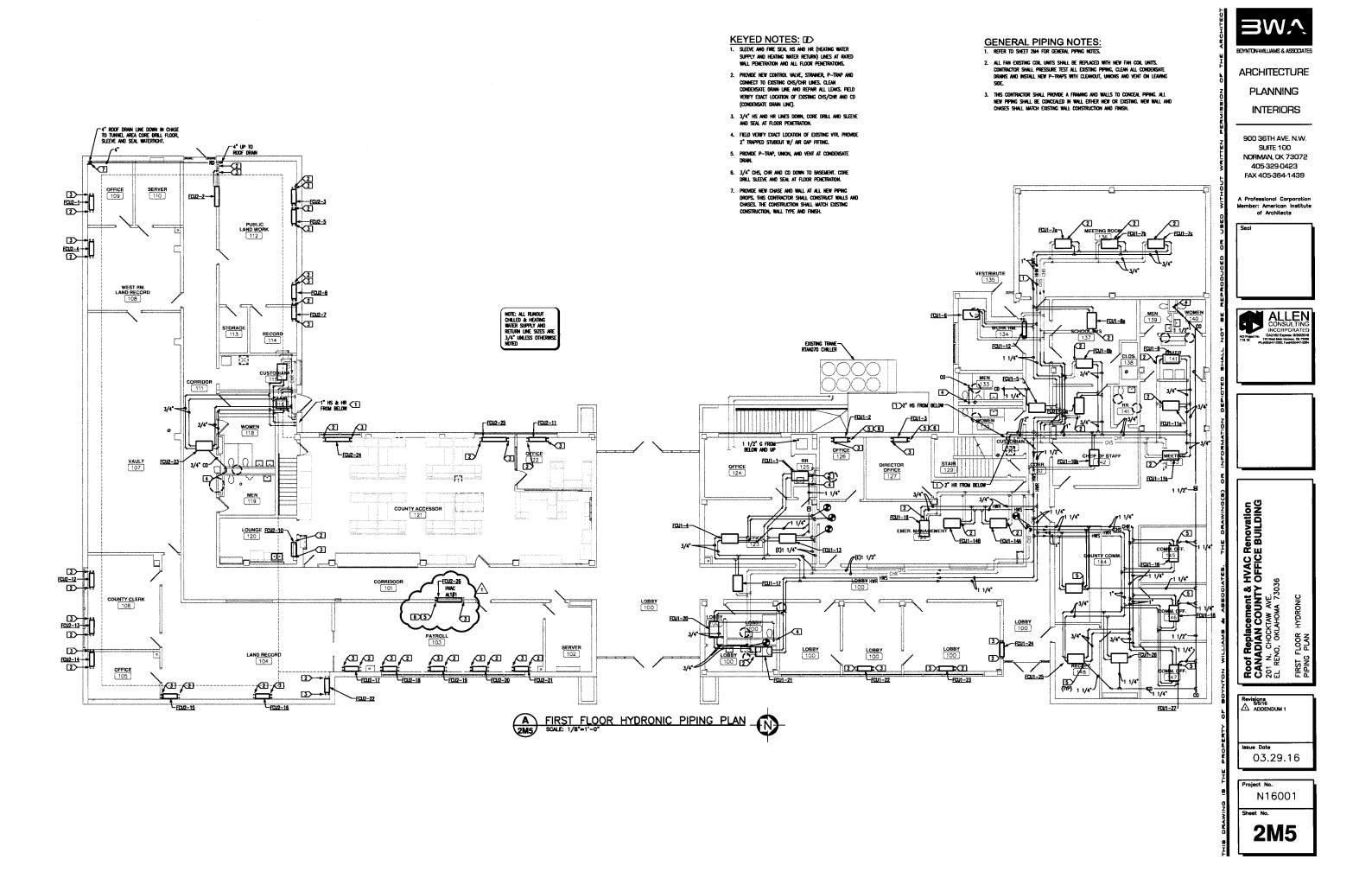
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2M4



ARK T	UNIT	FAN DAT	Α								TCHILLED WAT	TER COIL DATA									HEATING WAT	ER COIL D.	ATA							$\overline{}$	1 1		$\overline{}$
	CONFIGURATION		ESP	FAN	MAX RPM	DRIVE TYPE	MOTOR DTY.	MAX	MCA MOC	V/PH/	COOLING FDB/FWB (F)		TOTAL BTUH /	WATER FLOW	WATER PD (FT)	EWIALWI	PIPE SIZE	CONTROL VALVE RE:NOTE 8	AIR P.D.	FINS PER INCH ROWS/CIRCUITS	HEATING EDBALDB (F)	TOTAL		WATER	EWT/LWT	PIPE SIZE (IN)	CONTROL VALVE	AIR P.D.	FINS PER INCH ROWS/CIRCUITS	FILTER	WEIGHT	MANUFACTURES	۹,
ASEMENT UNITS		1. 0	HOULE	4117.	, rom	1766	411.	(#	HON I HOO	-1 1/4	[EDDEWO (r)	I COUCHO (F)	Joenside Bron	FLOW	FD (F1)	4 (-)	(114)	VALVE NE.HOTE 6	1 INCHES	INCHAGINGUITA	EDUILDO (F)	I BION	PLON	FUFI	(F)	SIZE (IN)	VALVE	I INCHES I	COMPORTACIONE	PILIER	(LDO)	WOUEL	
CUB2-1, FCUB2-2, FCUB2-3	HORIZONTAL	185	0.13	1.0	905	DIRECT	1 1	1/8	2.8 15.0	115/1/	76.4/	55.47/	3590/	1.0	0.54	45/ 59.65	3/4	TWO	1 1	10	60/	5040	0.50	0.40	140/	3/4	3 WAY	0.01"	10	1	120	RANE	7
CUB2-4 & FCUB2-5 CUB2-6, FCUB2-7,	CABINET EXPOSED HORIZONTAL	330	N/A	-7.		DIRECT		40	39 150	60	61.2 76.7/	54.31	3590 60A0/	(GPM)	 		 	POSITION	1	3/2	86.14		GPM		109.4		MODULATING	 	1/2	PLEATED		CDB04	
FCUB2-8	CABINET EXPOSED	330	0.13	1.0	***	DIRECT		1/4	3.9 15.0	115/1/	81.3	59.15/ 54.83	6080	1.5 (GPM)	0.48	45/ 57.37	34	POSITION	1."	3/2	85.61	8790	0.70 GPM	1.08	140/ 104.75	3/4	3 WAY MODULATING	0.01"	10 1/2	PLEATED	150	RANE CDB06	
RST FLOOR NORTH WING UNIT	ms				L					1		<u> </u>	<u></u>	l						1								<u> </u>		'	J1		L
CU1-1, FCU1-21	HORIZONTAL	525	0.40	1.0	1492	DIRECT	- 1 1	1/4	3.9 15.0	1 115/1/	79.1/	51.73/	12850/	3.5	3.6	45/	T 3/4 T	TWO	1 .1"	1 10	60/	13.590	1.5	3.53	140/	3/4	3 WAY	1 0.01° I	10	T 1	T 132 T	RANE	т,
FCU1-15	CABINET CONCEALED									80	61.2	50.33	12850	(GPM)		53.76		POSITION		3/2	84.89	12,000	GPM		112.77		MODULATING	1	1/2	PLEATED		CCB06	╀
CU1-2 & FCU1-3	VERTICAL CABINET EXPOSED	190	0.10	1.0	898	DIRECT	1	1/8	2.8 15.0	115/1/	78/ 61.4	50.48/ 49.73	5900/ 5450	2.5 (GPM)	8.4	45/ 51.00	3/4	POSITION	1	10	60/	6130	1.0	1.27	140/	3/4	3 WAY MODULATING	0.01*	10	1	125	RANE	Г
CU1-4, FCU1-8a, FCU1-8b.	HORIZONTAL	120	0.35	1.0	1180	DIRECT		1/8	28 15.0	115/1/	84.3/	57.65/	3170/	(GPM) 0.7	0.47	51.00	1 - 1/4 - 1	TWO	+	3/2	89.2	9810	GPM 0.50	0.33	121.09	2/4	3 WAY	0.010	1/2	PLEATED		CBB04	╄
CU1-13, FCU1-20 & FCU1-26	CABINET CONCEALED	""			''	J., 201	· 1			60	84.4	55.49	3170	(GPM)	1 "."	56.15	~	POSITION	1 "	3/2	88.69	3010	GPM	0.55	118.1		MODULATING	1 "" [1/2	PLEATED		FCCB03	Т
CU1-10a, FCU1-10b, FCU1-16,	HORIZONTAL	190	0.35	1.0	1338	DIRECT	7	1/8	2.8 15.0	115/1/	84.9/	61.64/	4620/	1.0	0.79	45/	3/4	TWO	.1"	10	60/	4790	0.50	0.34	140/	3/4	3 WAY	0.01"	10	1.		RANE	т
CU1-18 & FCU1-27 CU1-8, FCU1-7a, FCU1-7b,	CABINET CONCEALED HORIZONTAL	420	0.35	10	1286	DIRECT		1/4	3.9 15.0	115/1/	81.2/	55.74 57.94/	4620 10930/	(GPM) 2.5	 	59 1/3 45/	 30 	POSITION	 	3/2	84.4 60/	42.070	GPM	3.53	110 8/9	- 7/4	MODULATING 3 WAY	1 000	1/2	PLEATED		CC903	╀
CU1-7c & FCU1-17	CABINET CONCEALED	725	0.50	1.0	1200	Direc:	' I	۱,77	3.9 10.0	80	85.4	56.88	10370	(GPM)	1.7	56.13	"	POSITION	1 ."	3/2	87.8	12,070	GPM	3.55	115.81	3~	MODULATING	0.01	1/2	PLEATED		FCCB06	ı
CU1-5, FCU1-9, FCU1-14A,	HORIZONTAL	190	0.35	1.0	1336	DIRECT	1	1/8	2.8 15.0	115/1/	79/	54.4/	4710/	1.5	1.62	45/	3/4	TWO	111	10	80/	5450	0.70	0.68	140/	3/4	3 WAY	0.01"	10	1.	75	TRANE	_
CU1-14B & FCU1-25 CU1-11a & FCU1-11b	CABINET CONCEALED HORIZONTAL		2.45							60	60.3	50.78	4710	(GPM)		54.77		POSITION	1	3/2	87.59		GPM		118.15		MODULATING		1/2	PLEATED	\perp	CC803	丄
CU1-118 & FCU1-110	CABINET CONCEALED	260	0.35	1.0	1301	DIRECT	וי ו	1/8	2.8 15.0	115/1/	80/ 65.2	57.66/ 56.54	6780/ 6320	1.5 (GPM)	1.84	45/ 58.8] 34]	TWO POSITION	.1"	3/2	60/ 86.9	7004	0.70 GPM	0.81	140/ 111,79	3/4	MODULATING	0.01	10 1/2	PLEATED	102	TRANE FCCB04	ı
CU1-12 & FCU1-24	VERTICAL CABINET RECESSED	448	0.10	1.0	1108	DIRECT	- 1	1/4	3.9 15.0	115/1/	78/ 81.3	52.97/ 51.62	11,630/ 11630	3.5 (GPM)	4.9	45/	1	TWO	-1"	10	60/ 86.95	12,510	1.5 GPM	3.5	140/ 114.93	3/4	3 WAY MODULATING	0.01"	10	PLEATED	155	RANE FCHB06	t
CU1-19	HORIZONTAL CABINET EXPOSED	330	0.13	1.0	943	DIRECT	1	1/4	3.9 15.0	115/1/	76.7/ 81.3	59.15/ 54.83	6080/ 6080	1.5 (GPM)	0.48	45/ 57.37	3/4	3 WAY MODULATING	.1"	10 3/2	60/ 85.61	8790	0.70 GPM	1.06	140/	3/4	3 WAY MODULATING	0.01"	10	PLEATED	150		T
:U1-22	VERTICAL CABINET EXPOSED	448	0.10	1.0	1108	DIRECT	1	1,4	3.9 15.0	115/1/	78/ 61.3	52.97/ 61.82	11,630/ 11630	4.0 (GPM)	4.9	45/ 51.77	1 1	TWO POSITION	1-7	10	60/ 86,95	12,510	1.3 GPM	3.5	140/ 114.93	3/4	3 WAY MODULATING	0.01*	10	PLEATED	155	RANE C8808	t
CU1-23	VERTICAL CABINET EXPOSED	550	0.10	1.0	1118	DIRECT	-	1/4	3.9 15.0	115/1/ 60	77.5/ 61.5	53/ 51.63	14,160/	4.5 (GPM)	6.9	45/ 52.26	1	TWO POSITION	1.1"	10 3/2	60/ 88.86	16,440	2.0 GPM	8.6	140/ 118.04	3/4	3 WAY MODULATING	0.01"	10	PLEATED	164	RANE CBB08	t
																					,												Γ
RST FLOOR SOUTH WING UNI CU2-1, FCU2-3.	TS VERTICAL																																_
202-1, PCU2-3, CU2-5 & FCU2-6	CABINET EXPOSED	190	0.10	1.0	898	DIRECT	'	1/6	2.8 15.0	115/1/	78/	56.25/ 55.19	4280/ 4280	1.0 (GPM)	0.91	45/ 57.97	3/4	POSITION	1 .1	1 3/2	60/ 85.9	5130	0.50 GPM	0.40	140/ 108.87	3/4	3 WAY MODULATING	0.01	10 1/2	PLEATED	125	FRANE FCBB04	ļ
CU2-2, FCU2-4, FCU2-11	VERTICAL	345	0.13	1.0	943	DIRECT		1/4	3.9 15.0	115/1/	78/	64.11/	9630/	2.5	2.6	45/	3/4	TWO	-1"	10	60/	8990	0.5	1.1	140/	3/4	3 WAY	0.01*	10	10	155	RANE	t
CU2-10, FCU2-15, FCU2-18 CU2-22, FCU2-24 & FCU2-25	CABINET EXPOSED									60	63	53.06	8640	(GPM)		52 2/3		POSITION		3/2	85.18		GPM		104		MODULATING	<u> </u>	1/2	PLEATED	1 1	FCBB06	L
CU2-12, FCU2-13, FCU2-14, CU2-17, FCU2-18, FCU2-19, CU2-20 & FCU2-21	VERTICAL CABINET EXPOSED	190	0.10	1.0	898	DIRECT	'	1/8	2.8 15.0	115/1/ 60	78/ 61.4	50.46/ 49.73	5900/ 5450	2.5 (GPM)	6.4	45/ 51.00	3/4	TWO POSITION	.1"	10 3/2	89.2	6130	1.0 GPM	1.27	140/ 121.09	3/4	3 WAY MODULATING	0.01*	1/2	PLEATED		TRANE FCBB04	Γ
SU2-7	VERTICAL	100	0.10	1.0	779	DIRECT		1/8	2.8 15.0	115/1/	80/	56.31/	2470/	1.0	0.5	45/	3/4	TWO	- 1"	10	60/	3003	0.50	0.33	140/	3/4	3 WAY	0.01*	10	 		TRANE	╆
CU2-8	CABINET EXPOSED HORIZONTAL	115	0.10	10	755	DIRECT		-1/8	28 150	115/1/	63	54.2 55.81/	2470	(GPM) 1.5	108	55.07	1 - 3/4	POSITION		3/2	89.48	9300	GPM 0.50	0.33	121.61 140/	1 34	MODULATING 3 WAY	0.04*	1/2	PLEATED		FCB802	┺
	CABINET EXPOSED	I ''"			'~	5201	'		10.0	60	63	53.51	301	(GPM)	I ""	54.08	~~	POSITION	1 "	3/2	89.1	3380	GPM	V.33	119.41	~	MODULATING	0.01	1/2	PLEATED	""	TRANE FCDB03	1
CU2-9	HORIZONTAL	185	0.13	1.0	905	DIRECT	1	1/8	2.8 15.0	115/1/	76.4/	55.47/	3590/	1.0	0.54	45/	3/4	TWO	.1"	10	80/	5040	0.50	0.40	140/	3/4	3 WAY	0.01*	10	1"	120	TRANE	т
219.93	CABINET EXPOSED HORIZONTAL	260	0.35	1.0	1301	DIRECT	\vdash	1/8	2.8 15.0	115/1/	81.2	54.31 57.68/	3590 6780/	(GPM) 1.5	1 184	59.65 45/	3/4	POSITION 3 WAY	+	3/2	86.14	1-200	GPM 0.70	0.81	109.4		MODULATING 3 WAY	0.01*	1/2	PLEATED		FCDB04 TRANE	╀
	CABINET CONCEALED				'**'		'	""	'5.0	60	65.2	57.06V 56.54	6320	(GPM)	'.04	58.8	344	MODULATING	1 '	3/2	85.9	1004	GPM	0.01	111,79	344	MODULATING	0.01	10 1/2	PLEATED		TRANE FCCB04	Т
CU2-26	VERTICAL	448	0.10	1.0	1108	DIRECT	-1	1/4	3.9 15.0	115/1/	78/	52.97/	11,630/	3.5	4.9	45/	1	TWO	.1"	10	60/	12,510	1.5	3.5	140/	3/4	TWO	0.01*	10	1-	155	IRANE.	1
	CABINET RECESSED	┼	ļ		\vdash		\vdash		-	60	61.3	51.62	11630	(GPM)	_	51.77	\vdash	POSITION	+	3/2	86.95		GPM		114.93	1	POSITION		1/2	PLEATED		FCHB06	Į.
\sim		1			1			- 1	- 1	1	1	1		1	1		I		i				i	1			l			1 '			1
\triangle	1. CONTROLS TO BE PROV 2. ALL COILS SHALL HAVE 3. EAN COIL CONTROLS TO	BE BACNE	WALL THIC	KNESS. NISHED	EATED	NECTED TO	NEW CON	TROL SYST	EM.)																								
6	S. ENTERNO CHILLED WAS B. CONTRACTOR SHALL RE 7. CAPACITY BASED ON W/ B. FCU UNIT's FCU1-1, 1-7s	FER TO PL	ANS, OUTS IE FLUID T	SIDE AIR I YPE.	MAY BE	AT THE RETU			XEGREES.																								

Air I		ling Ur		ched	ule																									
MARK		Y FAN DAT	A								PACITY DATA								HEATING	COILC	APACITY	DATA						WEIGHT	MANUFACTURER	REMARKS
	CFM	TYPE	E.S.P.			TOTAL	MOCP	VOLTAGE	TOTAL			LAT.	GPM		E.W.T.	L.W.T.	FINSAN.	ROWS	TOTAL	EAT.	LAT.	GPM	FPD	E.W.T.	L.W.T.	FINS/IN.	ROWS	POUNDS	MODEL NO.	
				QTY		FLA	_L	1			DB/WB	DB/WB	1	FEET			1		(MBH)	l	1 1		FEET				1 I			
AHU-1	2,400	HOUSED	7.7	1.5/	1081	7.4	15 AMPS	208/3/60	66.96	66.96	78/60	51.42/	13.4	1.13	45	55	14	6	93.83	65	102.66	10.5	0.43	140	122.09	14	2	686	TRANE/	PROVIDE STAINLESS STEEL DRAIN PAN AND
			1	1		AMPS						49.54												L						ANGLED FILTER RACKS.
AHU-2	1,200	HOUSED	7	1.5/	841	5.3	15 AMPS	208/3/60	26.83	26.83	76/60	58.7/	5.35	0.17	45	55	14	4	35.61	65	93.58	3	0.04	140	116.22	14	2	655.2		PROVIDE STAINLESS STEEL DRAIN PAN AND
				1 1		AMPS		1				51.6			1			t	!								1 I		UCCAD06A0	ANGLED FILTER RACKS.

WARK	TYPE	SERVICE	FLOW (GPM)	HEAD (FT)	HP	RPM	VOLTAGE/ PHASE	PUMP EFF. (%)	PUMP WEIGHT	PUMP SIZE	MANUFACTURER MODEL	NOTES:	REMARKS
EXISTING	PUMPS SCHED	ULE AND NOTE	s										
EXISTING P-1	BASE MOUNTED END SUCTION	HEATING WATER	140	26	1 1/2	1750	208/3			2x2-1/2x78	AURORA		REPLACE WITH NEW PUMP
XISTING	BASE MOUNTED	THEATING	140	26	110	1750	208/3			2v2-1/2v7B	341A AURORA/	BE REMOVED	REPLACE WITH NEW PUMP
EAGTING P-2	END SUCTION	WATER	140	Z*	1 1/2	1/50	208/3		l	2002-172X/B	341A	BE REMOVED	REPLACE WITH NEW POMP
XISTING	BASE MOUNTED	PRIMARY	140	50	5	3750	208/3			1510 2BC	BELL & GOSSETT/		THIS PUMP SHALL BE USED
2-3	END SUCTION	CHILLED WATER	140	_ ~	,	// 30	2003		l	1310 250	1510	3.4.586	AS PRIMARY CHILLED WATER
OCATION OF		G. CHELLES THE LEVEL			-						10.0	10, 4, 5 4 6	THIS PUMP HAS ALREADY BEEN
REMOVED P-4	:						i i		l	ļ		i	REMOVED, PROVIDE NEW PUMP
EXISTING	BASE MOUNTED	CHILLED	240	100	10	1750	208/3		_	2x3x11	AURORA/	EXISTING PUMP TO	INSTALL NEW P-5
P-5	END SUCTION	WATER					l I		l	l	344A	BE REMOVED	AT THIS LOCATION
EXISTING	BASE MOUNTED	CHILLED	240	100	10	1750	208/3			2x3x11	AURORA/	EXISTING PUMP TO	
P-6	END SUCTION	WATER							L		344A	BE REMOVED	AT THIS LOCATION
NEW PUM	PS SCHEDULE	AND NOTES											
2-1	BASE MOUNTED	THEATING	68	65	3	1750	208/3	54	281	2.5x2x7.8	TACO	IREFER TO NOTES	INSTALL AT LOCATION OF EXISTIN
	END SUCTION	WATER					l I		LBS		MODEL FI 2009	1, 2, 3, 4 & 6	P-1. PROVIDE VFD.
3.2	BASE MOUNTED	HEATING	68	65	3	1750	208/3	54	281	2.5x2x7.8	TACO	REFER TO NOTES	INSTALL AT LOCATION OF EXISTI
	END SUCTION	WATER							LBS	l	MODEL FI 2009		P-2. PROVIDE VFD.
-4	BASE MOUNTED	PRIMARY	140	50	- 5	1760	208/3	66	381	3x2.5x6.5	TACO		PROVIDE VFD
	END SUCTION	CHILLED WATER							LBS		MODEL FI 2507	1, 2, 3 & 4	
2-5	BASE MOUNTED	SECONDARY	140	65	- 5	1760	208/3	66	381	3x2.5x6.5	TACO	REFER TO NOTES	PROVIDE VFD
	END SUCTION	CHILLED WATER							LBS		MODEL FI 2507	1, 2, 3 & 4	
6	BASE MOUNTED	SECONDARY	140	65	5	1760	208/3	66	381	3x2.5x6.5	TACO	REFER TO NOTES	PROVIDE VED
NOTES:	END SUCTION 1. PROVIDE FLANGE	CHILLED WATER							LB\$		MODEL FI 2507	1, 2, 3 & 4	
WOIES;	2. PROVIDE FLANG												
		FF VALVE ON PUMP II	-	AI ANCING	eu me	EVALVE	W OUTLIET						
		ALINEMENT AND GR					m GOILE).						
		LINE AND BALANCE F		W-UL 191111		U							
		D, LOCATION ON WA											

ARK -	FLOW GPM	SIZE	STRAINER	MAX P.D. FEET	SERVICE	MANUFACTURER MODEL	WEIGHT	REMARKS
AS-1	140	OIZE	1200	PEEI	CHILLED	TACO		
A0-1	1 140		YES	3			190	COVER WITH 3/4" THICK ELASTOMETRIC INSULTION.
					WATER	4904AD-125		PROVIDE DRAIN VALVE AND AUTOMATIC AIR VENT.
AS-2	69	3"	YES	1.6	HEATING	TACO/	90	COVER WITH 34" THICK ELASTOMETRIC INSULTION.
		TO 4" FLANGE			WATER	1904AD-125	1	PROVIDE DRAIN VALVE AND AUTOMATIC AIR VENT.

Chil	lled W	ater Buffer	[.] Tank Sc	hedu	le				
		DISCHARGE FLOW RATE GPM	CHANGE FLOW RATE GPM	CONN	MAX. P.D. PSI.	UNIT	MANUFACTURER MODEL	FLUID	REMARKS
CST-1	500	272	140	4"	2	4300 LBS FULL	CEMLINE V500CWB		PROVIDE FLANGED CONNECTIONS, INTERN. BAFFLE, 3/4" TOP VENT AND 1" DRAIN VALVE
NOTES:	2. COVER 3. PROVID	HALL BE CONSTRUC WITH 1" THICKNESS DE OPTIONAL OUTDO	ELASTOMETRIC I	INSULATIOSSED A	ON. LUMINUM	JACKET.			SSEL CODE. VING AS NECESSARY.

S, INTERNAL AIN VALVE.	Ex	pansi	ion Tanl	k Sch	edule							
	MARK		ACCEPTANCE		SYSTEM	MIN		PRE-CHARGE	FLUID		MANUFACTURER	REN
- 1		(GAL)	(GAL)	TEMP (F)	VOLUME	TEMP (F)	(psi)	(pei)			MODEL	
	EI-1	34	27	180	500	50	46	15	CHILLED		BELL & GOSSETT	VER
					GALLON				WATER	LBS	B-130LA	ASA

Diffuser Schedule

	mbing Fixture							
MARK	FIXTURE		SIZE/MOUNT	ROUGH-				FITTINGS & REMARKS
	L	MODEL		CW	HW	WASTE		1
P-1			WALL	1/2" &	1/2"	3"	1 1/2"	(WALL BRACKET, S19-2000 THERMOSTATIC MIXING VALVE,
	W/ EYEWASH	S19314EW	l	1 1/4*		TOFD		SHUT-OFF VALVES, P-TRAP
P-2	HOSE	WOOODFORD	WALL	3/4*	-	-	-	MOUNT AT 38" ABOVE FINISH FLOOR, SECURE PIPING TO WALL, FIELD VERIFY THE EXACT LOCATION
	BIBB	MODEL 24						ON EXISTING CW LINE AND CONNECT TO EXISTING WATER IN BASEMENT MECH ROOM AND CONNECT.

Gly	col Ma	ke Up	Unit Sc	chedu	ıle								,
MARK	CAPACITY	TANK	TANK	CONIN	PRE\$\$URE	PUMP C	ATA			UNIT	MANUFACTURER		REMARKS
i I	(GPM@psi	SIZE	DIMENSIONS	SIZE	RANGE	MODEL	RPM	HP	SIZE	ELECTRICAL	MODEL	FLUID	i e
GF-1	10 at 30	- 56	58"H x 30"	3/4*NPT	3 to 30	3530	3600	1/2	1x1 1/4x6	115V/1PH/60	BELL & GOSSETT	PROPYLENE	PROVIDE 3/4" MAKE UP WATER LINE AND
		GALLON			PSI				1	l	GMU-30	GLYCOL	NON THREADED WALL HYDRANT TO FILL TANK.
NOTES:	1. SYSTEM S	HALL BE A	PACKAGED AL	JTOMATIC	GLYCOL SOI	UTION I	AKE L	PUN	T WITH DIAP	HRAGM EXPA	NSION TANK, LOW	WATER CUTOFF	
	PRESSURE	SWITCH	STARTER, Y-ST	RAINER O	N DISCHARG	E, 0-60 P	SI PRE	SSUR	E GAUGE AN	D MODEL 30)	-1 VALVE.		

Dra	in Sche	dule		
MARK	TYPE	MANUFACTURE MODEL	STRAINER MATERIAL	REMARKS
	ROOF DRAIN	WADE 3000-3-52-53	CAST IRON	PROVIDE DECK CLAMP, CAST IRON STRAINER

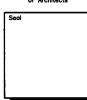
MARK	MAU-1	MAU-2	
MANUFACTURER	GREENHECK	GREENHECK	
WODEL INIT WEIGHT	RVE-35-30P-30H-5	RVE-35-30P-30H-5 2.495	
SUPPLY FAN	2,495	2,495	
AN SIZE (INYTYPE	14" PLENUM	14" PLENUM I	
NRFLOW (CFM)	1200	1560	
OTAL STATIC PRESSURE (IN WG)	2.403	2.735	
XTERNAL STATIC PRESSURE (IN WG)	1.5	1.5	
MOTOR HP	1	1	
/OLTS/PHASE/HERTZ	208/3/60	208/3/60	
XHAUST FAN	4487975684	441 FG F111047 - 1	
AN SIZE (IN)/TYPE URFLOW (CFM)	14" PLENUM 1200	14" PLENUM 1560	
OTAL STATIC PRESSURE (IN WG)	1,778	2.054	
XTERNAL STATIC PRESSURE (IN WG)	- '''	1	
AOTOR HP	1	1	
/OLTS/PHASE/HERTZ	206/3/60	208/3/60	
NEAT WHEEL, SUMMER			
OUTSIDE AIR SUPPLY CFM/EXHAUST CFM	1200/1200	1560/1560	
SUPPLY ENTERING AIR DBAWB (DEG. F) SUPPLY LEAVING AIR DBAWB (DEG. F)	99.5/74 81.4/65.7	99.5/74 82.4/66,2	
EXHAUST ENTERING AIR DB/WB (DEG. F)	81.4/65.7 75/62.38	82.4/66.2 75/62.38	
EXHAUST LEAVING AIR DE/WB (DEG. F)	93.1/72.2	92.1/71.8	
MHEEL EFFECTIVENESS	73.9	69.6	
HEAT WHEEL, WINTER		•	
OUTSIDE AIR SUPPLY CFM/EXHAUST CFM	1200/1200	1560/1560	
SUPPLY ENTERING AIR DB/WB (DEG. F)	11.4/9	11.4/9	
SUPPLY LEAVING AIR DBAWB (DEG. F) EXHAUST ENTERING AIR DBAWB (DEG. F)	58.2/47 72/52.85	53.6/45.2 72/52.65	
EXHAUST LEAVING AIR DEWB (DEG. F)	27.2/24.7	29.8/27	
FFICIENCY	73.9	69.6	
ROST CONTROL (ELECTRIC PREHEATER)	4.1 KW	4.1 KW	
DIRECT EXPANSION COOLING		·	
COOLING TOTAL MBH	59.1	61.8	
COOLING SENSIBLE MBH	41.5	47.7	
AT DB/WB (F) AT DB/WB (F)	61.4/65.7 49.5/48.8	82.4/66.2 54.2/53.3	
ER (F)	11.8	12.4	
BAS HEAT			
TYPE	INDIRECT GAS	INDIRECT GAS	
NPUT MBH/OUTPUT MBH	100/80	100/80	
EAVING AIR DB (DEG. F)	117.9	101.1	
TEMPERATURE RISE (DEG. F)	61.7	47.5	
FURNACE CONTROL	4:1 MODULATING	4:1 MODULATING	
HOT GAS REHEAT			
CAPACITY (MBTUH) LEAVING AIR DB (DEG. F)	32.1 74.3	35.2 75.1	
EAVING AIR DB (DEG. F)	/4.3	/5.1	
OUTDOOR AIR AND EXHAUST AIR FILTERS	PLEATED	PLEATED	
FFICIENCY	35% (MERV 8)	35% (MERV 8)	
DEPTH	2	2	
BUPPLY AIR FILTER			
TYPE	PLEATED	PLEATED	
FFICIENCY	65% (MERV 11)	65% (MERV 11)	
DEPTH	2	2	
INIT ELECTRICAL DATA		******	
/OLTS/PHASE/HERTZ WINIMUM CIRCUIT AMPACITY (AMPS)	208/3/60	208/3/60 36.1	
MAX FUSE (AMPS)	36.1	36.1	
ACCESSORIES AND NOTE	17HRU 8	17HRU 8 1	
NOTES			

BOYNTON-WILLIAMS & ASSOCIATES

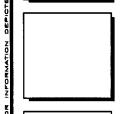
ARCHITECTURE
PLANNING
INTERIORS

900 36TH AVE. N.W. SUITE 100 NORMAN, OK 73072 405-329-0423 FAX 405-364-1439

A Professional Corporation Member: American Institute of Architects







Roof Replacement & HVAC Renovation CANADIAN COUNTY OFFICE BUILDING 201 N. CHOCKTAW AVE. EL RENO, OKLAHOWA 73036

Revisions
5/5/16
ADDENDUM 1

03.29.16

Project No. N16001

5M1

FIRST FLOOR SO	LUTH WING MECHANICAL EQUIPMENT	SCHEDULE											
CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	CIRCUIT	BREAKER	WIRE CALLOUT	DISCONNECT	DISCO PROV BY	DISCO INST BY	MOCP	NOTES
FCU2-1	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-13	30/1	3/4"C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-2	FAN COIL	120V 1P 2W	1/4 HP	0.7	3.9	P-11	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-3	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-11	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-4	FAN COIL	120V 1P 2W	1/4 HP	0.7	3.9	P-13	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-5	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-11	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-6	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-9	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-7	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-9	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-8	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-9	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-9	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-9	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-10	FAN COIL	120V 1P 2W	1/4 HP	0.7	3.9	P-7	30/1	3/4°C,1#10,#10N,#10G	Fused	EC	EC	15	
FCU2-11	FAN COIL	120V 1P 2W	1/4 HP	0.7	3.9	P-7	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-12	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-5	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-13	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-5	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-14	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-5	30/1	3/4"C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-15	FAN COIL	120V 1P 2W	1/4 HP	0.7	3.9	P-3	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-16	FAN COIL	120V 1P 2W	1/4 HP	0.7	3.9	P-3	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-17	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-1	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-18	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-1	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-19	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-1	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-20	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-1	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-21	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-1	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	[
FCU2-22	FAN COIL	120V 1P 2W	1/4 HP	0.7	3.9	P-3	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-23	FAN COIL	120V 1P 2W	1/8 HP	0.47	2.8	P-5	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-24	FAN COIL	120V 1P 2W	1/4 HP	0.7	3.9	P-7	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-25	FAN COIL	120V 1P 2W	1/4 HP	0.7	3.9	P-7	30/1	3/4°C,1#10,#10N,#10G	FUSED	EC	EC	15	
FCU2-26(1)	FAN COIL	120V 1P 2W	1/4 HP	0.7	3.9	P-21	15/1	3/4°C,1 12, 12N, 12G	FUSED	EC	EC	15)	Λ
MAU-2	MAKE UP AIR UNIT	208V 3P 3W		10.4	36.1	P-15,17,19	50/3	3/4°C,3#8,#10G	NON-FUSED	EC	EC	50	

GENERAL NOTES:

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATIONS OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.

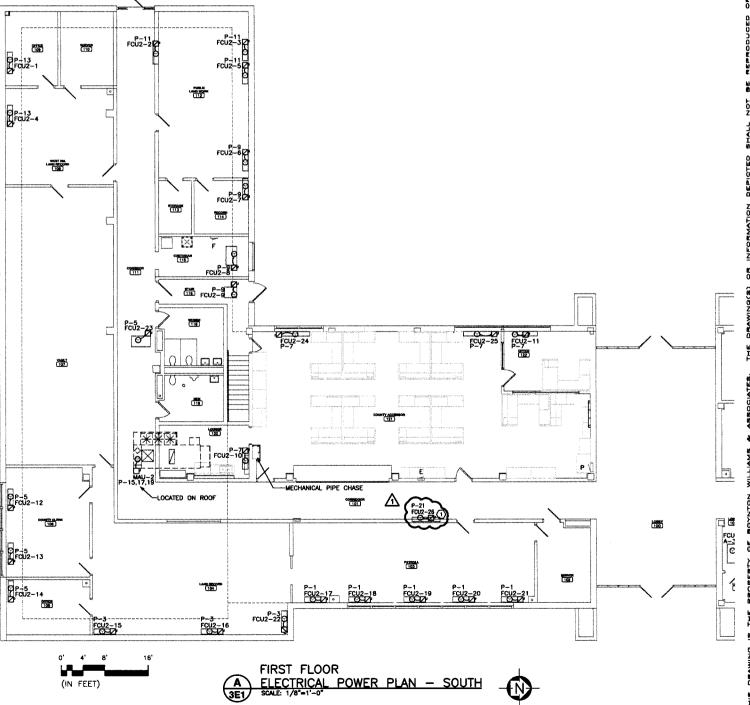
2. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES. SEE MECHANICAL PLANS FOR MORE DETAIL. PROVIDE 120V POWER FOR ALL MOTORIZED DAMPERS. INTERLOCK WITH CORRESPONDING EXHAUST FAN, ALL INDOOR TAC UNITS ARE POWERED VAN OUTDOOR UNITS. PROVIDE DISCONNECT AND WIRING BETWEEN UNITS.

3.COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.

A.CIRCUIT LABELS CORRESPONDING TO EXISTING PANELS ARE FOR REFERENCE ONLY; CONTRACTOR TO VERIFY EXISTING CIRCUIT NUMBERS IN THE FIELD.

KEYED NOTES: 4

1. BID AS HVAC ALTERNATE #1.



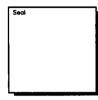


ARCHITECTURE

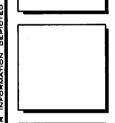
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acement & HVAC Renovation N COUNTY OFFICE BUILDING DKTAW AVE. LAHOWA 73036 Roof Replace CANADIAN (201 N. CHOCKT EL RENO, OKLAN

Revisions ADD-1 5/5/16 Issue Date 03.29.16

N16001 3E1



Canadian County Purchasing

Affidavit / Proof of Mailing

Date Issued:

April 18, 2016

Bid Number:

2016-#20

Closing Date:

May 16, 2016 at 9:30am

PO Box 458, 201 N. Choctaw Ave., El Reno, OK 73036

Opening Date:

May 16, 2016 at 9:30am

Commissioner's Meeting Room, 201 N. Choctaw Ave., El Reno, OK 73036

~ AFFIDAVIT~

Roof Replacement / County Commissioners

State of Oklahoma) County of Canadian) §

I, Sherry Murray, Purchasing Agent, in and for said County and State, do hereby certify that the Addendum was sent to the following:

3D's Roofing

Stevek3dsroofing@sbcglobal.net

Action Roofing & Contracting LLC

Attn: Heather PO Box 50558

Midwest City, OK 73140

Alva Roofing Co 2613 Linda Lane

Edmond, OK 73013

Arrowhead Roofing & Remodeling

7705 NW 134th St

Oklahoma City, OK 73142

Bid Clerk

Projects@bidclerk.com

Bid News

projects@isqft.com

Coontz Roofing Inc

colton.wayne@gmail.com

CCRS, LLC

17416 Golden Hawk Lane

Edmond, OK 73012

Clayco Industries Inc

DBA Ford Roofing & Sheet Metal

15 West Bishop Road

PO Box 941

Lawton, OK 73502

Crawford Roofing 3100 W lowa

Chickasha, OK 73018

DP Byers Company LLC

11842 South 33rd West Ave, Unit B

Sapulpa, OK 74066

ePlan

4115 South Providence, Suite 105

Columbia, MO 65203

Francis Tuttle Vo-Tech Center Attn: Bid Assistant - Judy Robbins

12777 N Rockwell

Oklahoma City, OK 73142

Hart Roofing LLC 357713 E 900 Road Stroud, OK 74079

Innovative Construction & Roofing 2236 NW 10th Street, Suite 112 Oklahoma City, OK 73107

Integrity Restoration Specialists LLC

Attn: Michael Denton 11532 NW 5th Street Yukon, OK 73099

Martin Peters & Son Roofing

6006 Blue Jay Way El Reno, OK 73036

Matthew's Roofing 2017 Harvey Street Oklahoma City, OK 73109

Mid-America Roofing

t.hoeggl@gmail.com

Mountain Top Enterprises LLC Saratoga Roofing & Construction

209 NW 132nd Street Oklahoma City, OK 73114 **Nester Commercial Roofing Inc**

2313 Pawnee Crossing Edmond, OK 73034

Nurnberg Roofing Co nurnbergroofing@aol.com Oklahoma Roofing blawson@okroofing.com

Online Data Services 3295 River Exchange Drive, Suite 213 Norcross, GA 30092

Preferred Roofing 7127 NW 39th Expressway, #A Bethany, OK 73088

Reed Construction Data 30 Technology Pkwy South, Suite 100 Norcross, GA 30092 Salazar Roofing 209 W Main Street Yukon, OK 73099

Sealtight Roofing & Paving 1479 South Sunnylane Road Oklahoma City, OK 73115 Southwest Roofing Attn: Max PO Box 54858 Oklahoma City, OK 73102 Standard Roofing standardroofing@coxinet.net

Target Roofing & Construction LLC 5830 NW Expressway, Suite 215 Oklahoma City, OK 73132 Today's Roofing Inc 3604 S Service Road Moore, OK 73160

Dodge Data & Analytics support@construction.com

American Roofing cody.warner@americanroofingok.com

Brox Industries mark.brox@cox.net

Crawford Roofing sharon@crawfordroofinginc.com

Floorco mark@floorco-designcenter.com Ford Roofing nick@fordroofingok.com

Interstate Roofing richard@interstateok.com

Standard Roofing standardroofing@coxinet.net

Terrazzo Emily@terrazzousa.com BRB Roofing sales@brbroofing.com

Witness my hand and seal this 5th day of May 2016.

Sherry Murray, Purchasing Agent (SEAL)