

COILS INSTALLATION PACKAGE 2

COMBS	# Coils	Room #	Projected ship date	Projected Installation Schedule	Weight	Crate Dimensions	Note
AHU 1 (CW Coils)	2	B3	TBD	June 3 - July 7	TBD	TBD	
AHU 4 (CW Coils)	2	B6	TBD	July 10 - July 14	TBD	TBD	
AHU 6 (CW Coils)	1	B6	TBD	July 17 - July 21	TBD	TBD	
AHU 7 (CW Coils)	2	B6	TBD	July 31 - Aug 4	TBD	TBD	
			TBD	Aug 7 - Aug 11	TBD	TBD	
DENTAL							
AHU 13 - Cooling	3	D700	6/15/2023	June 26 - June 30	3105	12x4x6	1 crate 3 coils
AHU 13 - Heating	3	D700	7/12/2023	July 24 - July 28	3150	12x5x2	1 crate 3 coils

NOTE: Combs work is to include replacement of pressure wells.

Coil Dimensional Drawing

Coil Model: 58WC30x062-08-09AW

- Fin Height = 30 inches
- Finned Width = 62 inches
- Rows = 8
- Fin Series = 9 Fins per Inch
- Fins = 0.0095inch Thick Aluminum V Waffle Fin
- Tubes = 0.035 in. Copper
- Serpentine = 1
- Passes = 8 Number of Circuits = 20
- Connection = 2.5 In. MPT
- Connection Material = Red Brass Sweat Adapter
- Coil Hand = Left Hand Straight
- Same End Connections
- Casing = 16 ga. Type 304SS
- Coating = None
- Vent/Drain Kits = None

Quantity Required = 2

Coil Tag = SN26310-CW1

Coil Dimensions:

- A - Casing Depth = 15 inches
- B - Header Clearance = 5.25 inches
- C - Connection Extension = 9 inches
- D - Connection Size = 2.5 in. Nom. Pipe
- E - Center Support Spacing = 31 inches

Coil Dry Weight = 496 lbs

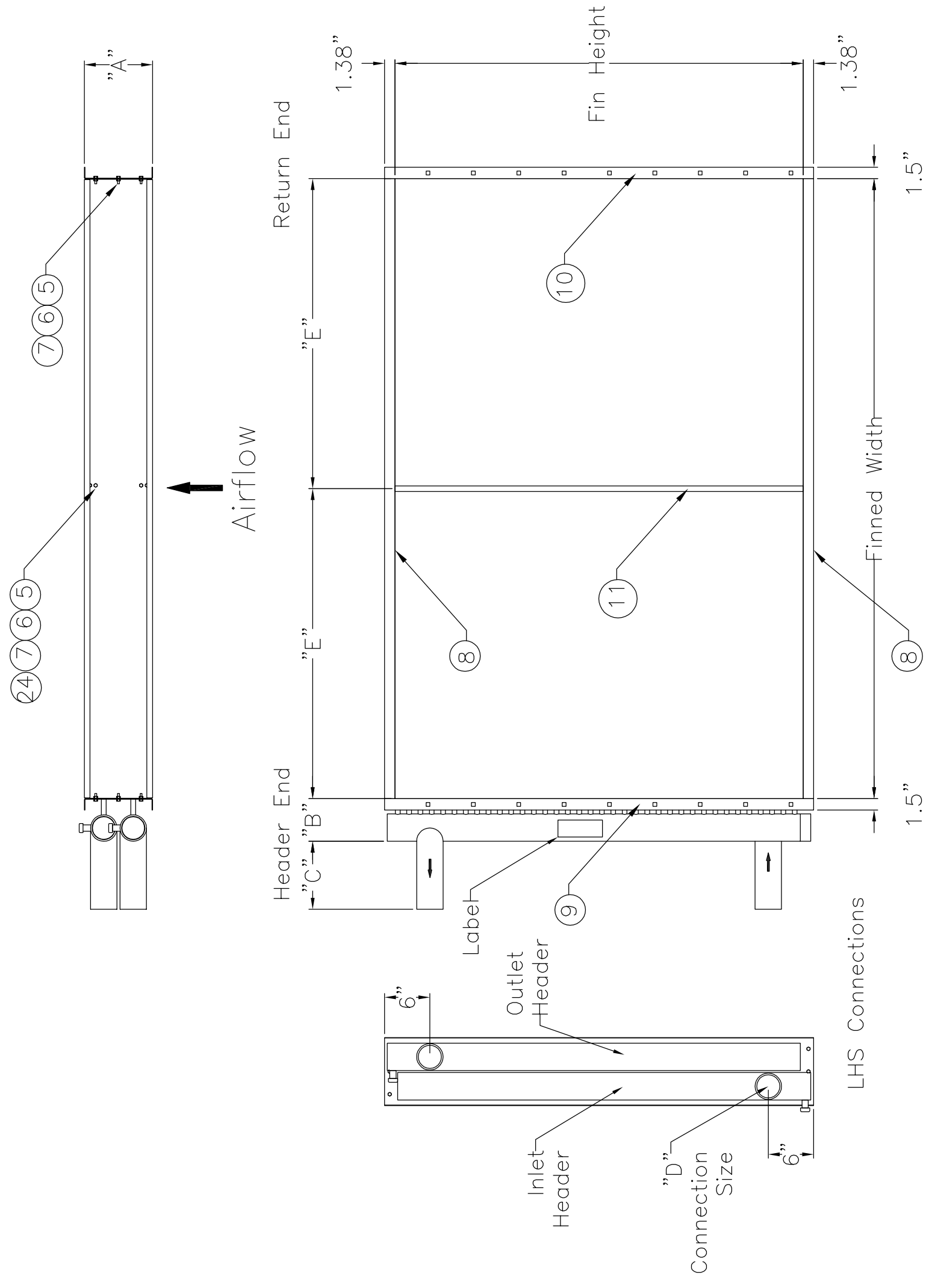
Drawing Contents

- Sheet 2 - Bill of Material
- Sheet 3 - Item 8 Stacking Flanges
- Sheet 4 - Item 9 and 10 - Tube Sheets
- Sheet 5 - Item 11 - Center Support(s)
- Sheet 6 - Inlet Header Assy
- Sheet 7 - Outlet Header Assy
- Sheet 8 - Circulating Schematic
- Sheet 9 - Header End Connection Diagram
- Sheet 10 - Return End Connection Diagram

Manufacture Coils to the specifications as detailed in ClimateCraft Document:

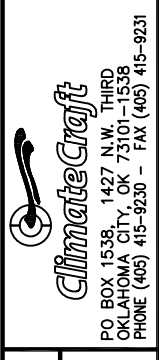
"M600-001 ClimateCraft Water Coils"

This outline drawing is for representation only and is not to scale. The number of square holes in the tubesheet flanges and the number of bolts connecting the tube sheets to the stacking flanges may not be accurately represented. Refer to the item detail drawings and the bill of material for accurate representations of those items.



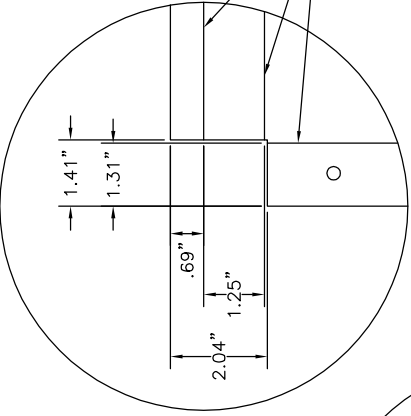
Note: A coil label is shown on the upstream side of the outlet header. Place the duplicate label on the downstream side of the inlet header in the same place.

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		BY: JM REV: 0 SIZE: B	DATE: 09/08/17 DATE: 09/08/17 Sht 1 of 10

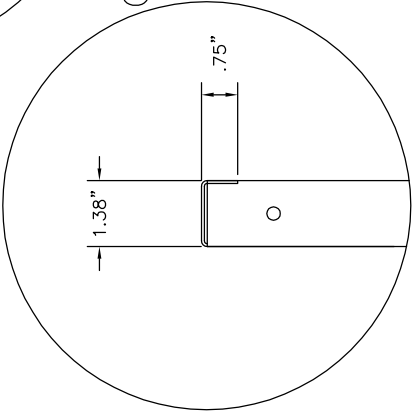


Item	Item Description	Qty	Length	Width	Scrap Factor	CNC File	Part Description	Part Number	Extended Quantity	U/M	Unit Weight	Extended Weight
1	Copper Tubes	160	64.7		0.05		Copper Tube, 5/8in. OD x 0.035in. Wall Thk	PPLB-040-003	216.9	LB	1	216.9
2	Fins, Die Formed	558	30	10.39	0.13		Aluminum Fin Stock, 0.0095in. Thk, 11.142in. Wide	PCOI-005-006	166.7	LB	1	166.7
3	Short Return Bends, 1.5in.	96			0.02		Straight Tangent Return Bend, 1.5in., 0.035in. Wall	PPLB-025-002	96	EA	0.065	6.2
4	Long Return Bends, 2.600in.	44			0.02		Straight Flat Return Bend, 2.60in., 0.035in. Wall	PPLB-025-005	44	EA	0.088	3.9
5	Cap Screws	20			0.1		1/4-20 x 3/4in. type 304 SS hex head bolt	PFAS-060-001	20	EA	0.145	2.9
6	Hex Nuts	20			0.1		1/4-20 type 304 stainless steel hex nut	PFAS-061-001	20	EA	0.074	1.5
7	Lock Washers	20			0.1		1/4in. ID type 304 stainless steel lock washer	PFAS-062-001	20	EA	0.003	0.1
8	Stacking Flanges	2	64.51	18.76	0.2	CW1+1	Steel, Type 304 Stainless, 16Ga.	PSTL-003-001	16.81	SF	2.28	38.3
9	Tube Sheet - Header End	1	32.75	22.76	0.2	CW1+2	Steel, Type 304 Stainless, 16Ga.	PSTL-003-001	5.18	SF	2.28	11.8
10	Tube Sheet - Return End	1	32.75	22.76	0.2	CW1+3	Steel, Type 304 Stainless, 16Ga.	PSTL-003-001	5.18	SF	2.28	11.8
11	Center Supports	1	31.58	21.26	0.2	CW1+4	Steel, Type 304 Stainless, 16Ga.	PSTL-003-001	4.66	SF	2.28	10.6
12	Inlet Header Riser	1	29		0.1		Copper Tubing, Type L, 3in. Nominal, 3.125 OD	PPLB-020-007	2.42	LF	3.33	8.1
13	Outlet Header Riser	1	29.44		0.1		Copper Tubing, Type L, 3in. Nominal, 3.125 OD	PPLB-020-007	2.45	LF	3.33	8.2
14	Inlet Header Connection Tube/Pipe	1	7.745		0.1		Copper Tube, Type L, 2.5in. Nominal	PPLB-020-006	0.65	LF	2.48	1.6
15	Outlet Header Connection Tube/Pipe	1	7.745		0.1		Copper Tube, Type L, 2.5in. Nominal	PPLB-020-006	0.65	LF	2.48	1.6
16	Header End Plugs	4			0.1		Copper Disc, 2.931in. OD x 0.125in. Thick	M600-004-005	4	EA	0.272	1.1
17	Inlet Header Drain Nipple	1	1		0.1		Red Brass Pipe, Sched 40, 1/4 in. Nominal	PPLB-021-011	0.08	LF	0.447	0.04
18	Outlet Header Vent Nipple	1	10.09		0.1		Red Brass Pipe, Sched 40, 1/4 in. Nominal	PPLB-021-011	0.84	LF	0.447	0.38
19	Drain/Vent Pipe Cap	2			0.1		Red Brass Pipe Cap, Sched 40, 1/4 FPT in. Nominal	PPLB-023-001	2	EA	0.15	0.3
20	Inlet Header Feed Tubes - Straight	19	2		0.1		Copper Tube, 5/8in. OD x 0.035in. Wall Thk	PPLB-040-003	0.8	LB	1	0.8
21	Outlet Header Feed Tubes - Straight	19	2		0.1		Copper Tube, 5/8in. OD x 0.035in. Wall Thk	PPLB-040-003	0.8	LB	1	0.8
22	Inlet Header Feed Tubes - Offset	1			0.1		Offset Feed Tube, 0.035in. Wall Thk	M600-002-019	1	EA	0.07	0.07
23	Outlet Header Feed Tubes - Offset	1			0.1		Offset Feed Tube, 0.035in. Wall Thk	M600-002-019	1	EA	0.07	0.07
24	Center Support Flat Washer	8			0.1		1/4in ID x 5/8in OD x 0.05in, 18-8 SS flat washer	PFAS-070-001	8	EA	0.01	
25	Connection Protector	2					Plastic Thread Cap, 2.5in. pipe	PPLB-038-003	2	EA	0.02	
26	Center Support Hole Seal Plate	4					Coil Flange Seal Assembly, SS	M100-321-001	4	EA	0.053	0.2
27	Coil Connection MPT Sweat Adapter	2					Red Brass Adapter, 2.5 in MPT x 2.5 in ODS	M600-009-003	2	EA	1.5	3

<h1>Bill of Material</h1>	COIL MANUFACTURING DRAWING		 <p>ClimateCraft PO BOX 1538, 1427 N.W. THIRD OKLAHOMA CITY, OK 73101-1538 PHONE (405) 415-9230 - FAX (405) 415-9231</p>	JOB NAME: U of K Combs Cancer Center AHU-6		BY JM	DATE 09/08/17
	WITHOUT THE EXPRESS WRITTEN PERMISSION OF ClimateCraft Inc. DO NOT REPRODUCE OR DISCLOSE THE CONTENTS OF THIS DRAWING THIS DRAWING AND IT'S CONTENTS ARE THE PROPERTY OF ClimateCraft Inc.			SN: SN26310		REV 0	DATE 09/08/17



Corner Notch Detail



Flange Bend Detail

Note 1: 3 Center Support Bolt Clearance Slots
 0.281" dia. by 1.0" center to center bolt clearance slots located as shown.
 The locating dimensions are to the center of the slot.

Note 2: 6 Tubesheet Bolt Clearance Holes
 0.281" bolt clearance holes.

Holes are dimensioned on the right side of the stacking flange. The holes are equally spaced as dimensioned. The holes on the left side are symmetrical to the top holes about the center of the stacking flange.

Note 3: CNC Output File = WC-CW1+1

Note 4: Dimensional Tolerances

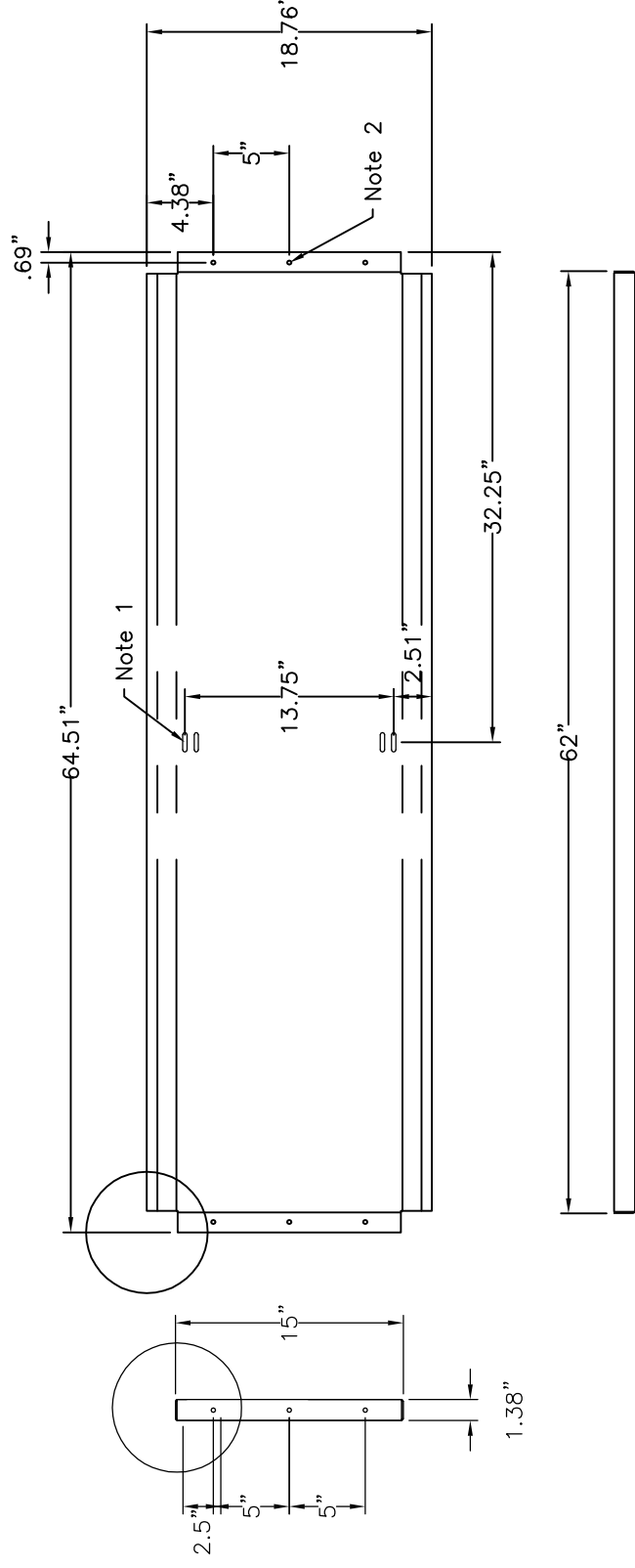
Hole to Hole tolerance = ± 0.005 "
 Flat shearing tolerance = ± 0.030 "
 Bend to Bend tolerance = ± 0.060 "

Note 5: Material

The material is either 16 ga. G90 galvanized steel, 16 ga. type 304 or type 316 stainless steel as designated in the Bill of Material.

Note 5: Construction

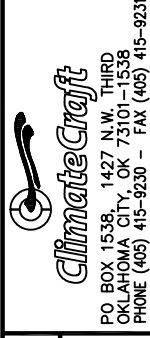
The Stacking Flanges are designed to be symmetrical so that the same flange can be used on the top and bottom of the coil.



Stacking Flange - Item 8 - 2 Required

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JOB NAME:

U of K Combs Cancer Center AHU-6

SN: SN26310 TAG: CW1

BY	JM	DATE	09/08/17
REV	0	DATE	09/08/17
SIZE	B	Sht 3 of 10	

Note 1: 160 Tube Holes

Punch, Extrude, and coin holes per figure 2a of M600-001. Holes are extruded out into the flanged areas. Only the first hole is dimensioned for clarity. The remaining holes are punched with a row pitch of 1.299" and a face pitch of 1.5". The hole labeled with the leader is for tube 1 which is to be placed on the bottom leaving air side of the coil.

Note 2: 10 Square mounting holes

0.5" x 0.5" Square holes. The first hole is dimensioned to the center. Repeat the holes horizontally on 6.0" centers. The hole pattern on the opposite flange is symmetrical to the flange edges.

Note 3: 8 Bolt Clearance Holes

0.281" bolt clearance holes. Holes are dimensioned on the top of the tubesheet. The holes are equally spaced as dimensioned. The holes on the bottom are symmetrical to the top holes about the center of the tubesheet.

Note 4: Output Files:

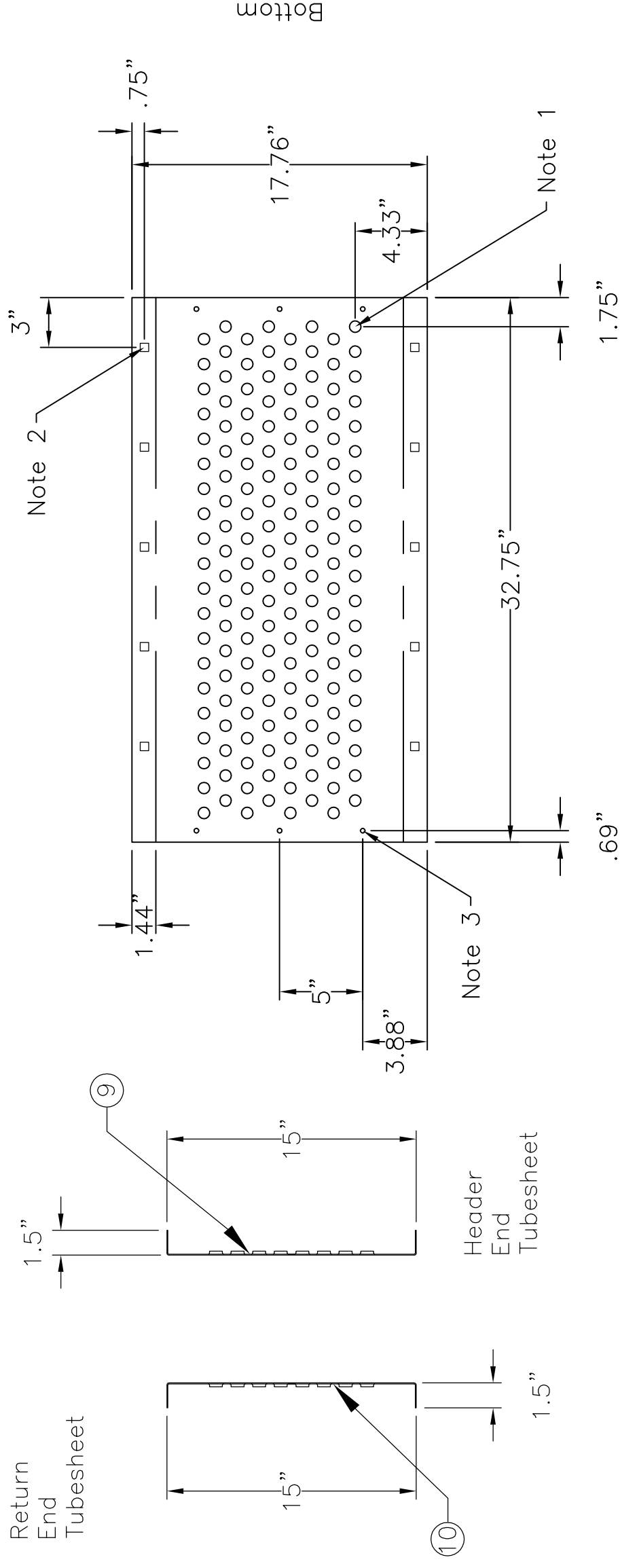
Header End = WC-CW1+2
Return End = WC-CW1+3

Note 5: Dimensional Tolerances

Hole to Hole tolerance = +/- 0.005"
Flat shearing tolerance = +/- 0.030"
Bend to Bend tolerance = +/- 0.060"

Note 6: Material

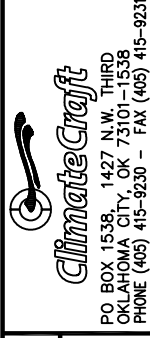
The material is either 16 ga. G90 galvanized steel, 16 ga. type 304 or type 316 stainless steel as designated in the Bill of Material.



Tubesheets - Item 9 and Item 10

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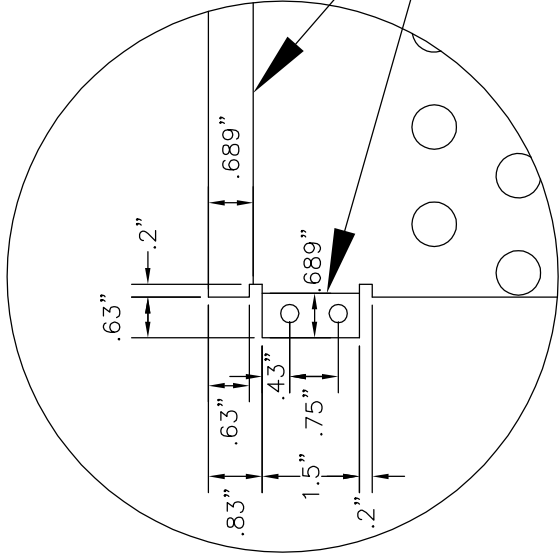


JOB NAME:

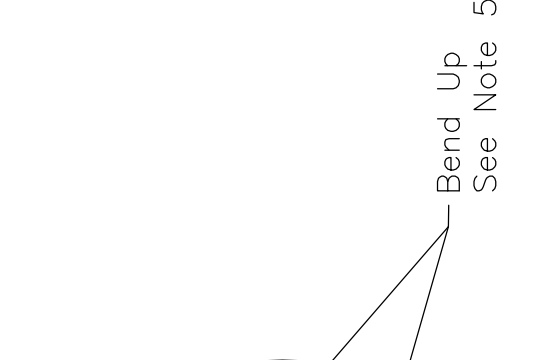
U of K Combs Cancer Center AHU-6

SN: SN26310 TAG: CW1

BY	JM	DATE	09/08/17
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SIZE	B	Sht 4 of 10	



Corner Bend Detail



Tab Detail
Typ. 4 Corners

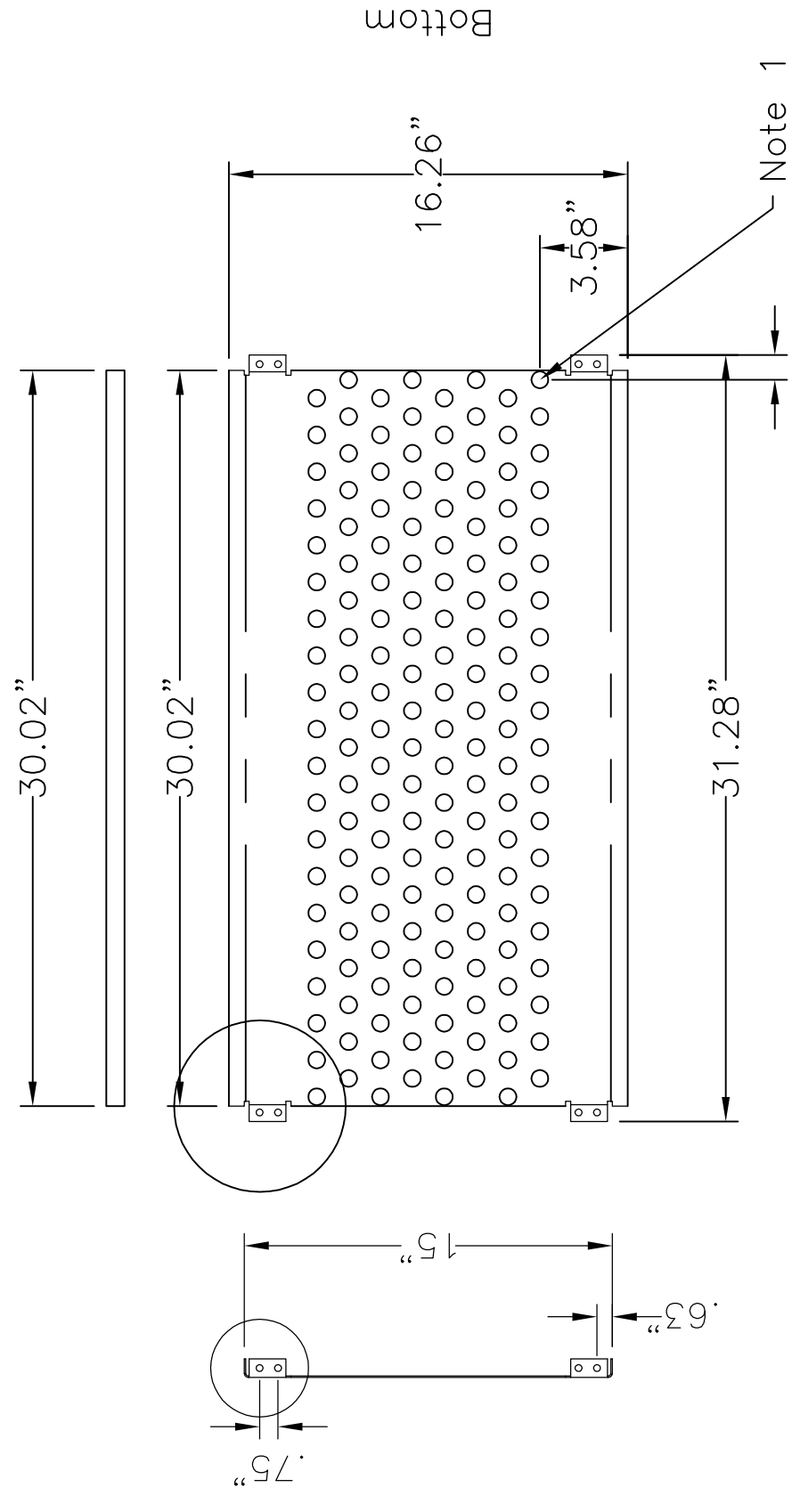
Note 1: 160 Tube Holes
0.683" Tube holes. Punch holes starting with dimensioned hole. The remaining holes are punched on a 1.5" x 1.299" triangular pattern. If there is only 1 row the holes are spaced on 1.5" centers. The hole labeled with the leader is for tube 1 which is to be placed on the bottom leaving air side of the coil.

Note 2: CNC Output File = WC-CW1+4


Note 3: Dimensional Tolerances
Hole to Hole tolerance = +/- 0.005"
Flat shearing tolerance = +/- 0.030"
Bend to Bend tolerance = +/- 0.060"

Note 4: Material
The material is either 16 ga. G90 galvanized steel, 16 ga. type 304 or type 316 stainless steel as designated in the Bill of Material.

Note 5: Bend Tabs flush so that they do not extend beyond the height of the center supports.



Center Supports Item 11 -1 Required

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				TAG:	CW1	SIZE	B	Sht 5 of 10	

Note 1: 2.5 in. - Left Hand Straight connections

Fabricate headers using materials and processes detailed in ClimateCraft specification M600-001.

Note 2: 1/4in. NPT Drain Nipple & Cap-1in. Lg

Flow drill 0.542/0.550" dia. hole in header at location shown for drain nipple. Cut red brass pipe (item 17) to length indicated. Thread one end with 1/4" x 18 tpi tapered pipe threads. Braze other end into copper header according to procedures outlined in ClimateCraft BP-1. Cap with item 19.

Note 3: Connection Hole Size = 2.634/2.640 in. for Type L Copper Tube

Flow drill connection hole into the riser tube in the location shown. Braze connection according to the procedures outlined in ClimateCraft BP-1 for red brass, BP-5 for steel, or BP-6 for copper. Hold the "A" dimension with a brazing fixture.

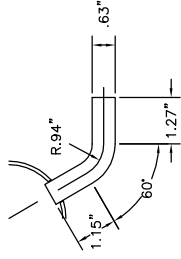
Note 3A: Connection Type is MPT Sweat Adapter - Fab per M600-010

Cut the inlet connection nozzle tube/pipe (item 14) to the length as indicated in the "CL" dimension and fabricate the nozzle per the details in the fabrication drawing listed above.

Note 4: 19 Straight Feed Tubes - 2 in. x 0.035 in. wall

Cut straight feed tubes (item 20) per length shown. Flow drill 0.627/0.635" holes at the locations shown for the straight tubes.

Braze with high silver content brazing rod per procedures outlined in ClimateCraft BP-4. Use a brazing fixture to control the location of the tube ends.



Offset Feed Tube Detail
(OF2-5S2D)

Note 5: 1 Offset Feed Tube(s)-3.4in x 0.035in wall-per M600-002-019

If offset feed tubes are used flow drill 0.627/0.635" holes at the locations shown. Mill the holes radially into the header riser at the angle shown. Bend the curved feeder tubes per the details provided in M600-002. Braze with high silver content brazing rod per procedures outlined in ClimateCraft BP-4. Use a brazing fixture to control the location of the tube ends.

Note 6: Header End Plugs

Braze header end plugs (item 16) flush to the top and bottom of the header riser with high silver content brazing rod and flux according to the process outlined in ClimateCraft BP-3.

Note 7: Interference with connection pipe.

The holes drilled in the riser for the feed tubes will sometimes interfere with the connection pipe weld when upstream or downstream connections are used. This will be apparent on the header drawing. When this occurs mill the affected holes after welding. Grind the welds smooth in the affected area to prepare for milling and brazing.

Note 8: Dimensional Tolerances

Hole to Hole tolerance = +/- 0.01"

Conn End Location tolerance = +/- 0.19"

All other tolerances = +/- 0.060"

Note 9: Hole Flow Drilling

The holes for the connection pipe, the drain pipe, and the feed tubes are to be drilled into the copper riser on the Tridan flow drilling machine in order to form the brazing collars. Insert the riser tube with the reference dimension (0,0) against the spacer block. Each hole to be drilled has a Drill Code associated with the hole dimension. The Drill Code details the pattern plate, spacer block and hole number in the drain pipe first, the connection pipe next, and the feed tubes last.

Mark a line on the copper riser at the reference end to indicate the reference angle (0 degrees). Rotate the mark to line it up with the angle shown on the top view of the header for each hole or set of holes drilled.

Drill Code: S11B4

Pattern Plate: S11B4 - Spacer Block

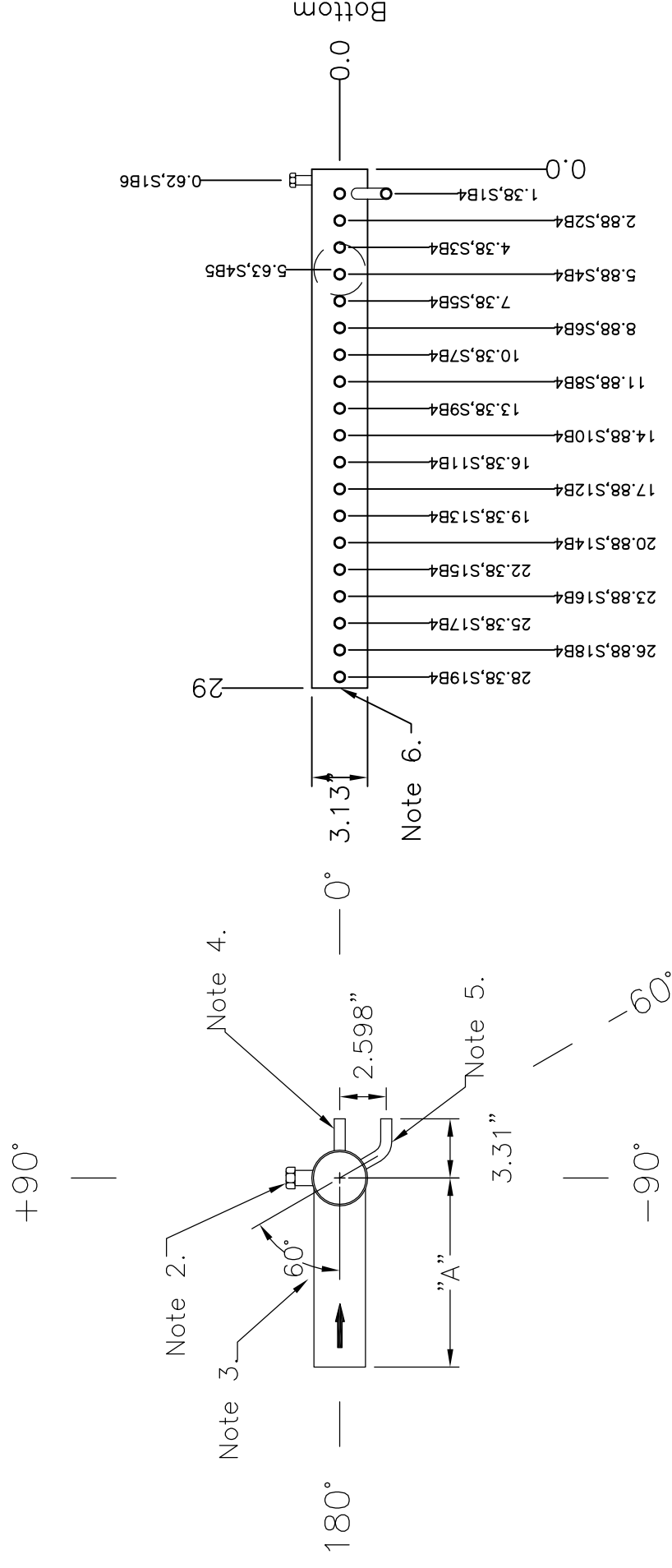
S-Single Row B0 - 0.25" B1 - 0.56"

D-Dual Row B2 - 1.00" B3 - 1.25"

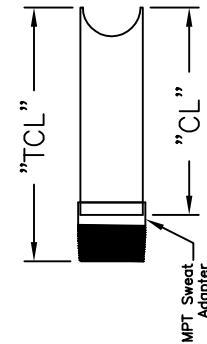
Hole Number B4 - 1.31" B5 - 1.56"

B6 - 2.06" B7 - 1.75"

B8 - 2.00"



Connection Nozzle - Note 3A



Inlet Header Assembly A = 10.56 in.

Connection Tube Cut Length CL = 7.75 in.

Total Conn. Assy. Length TCL = 10.12 in.

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PHONE (405) 415-9230 - FAX (405) 415-9231

JOB NAME:

U of K Combs Cancer Center AHU-6

BY JM DATE 09/08/17

REV 0 DATE 09/08/17

SN: SN26310 TAG: CW1

SIZE B Sht 6 of 10

Note 1: 2.5 in. - Left Hand Straight connections

Fabricate headers using materials and processes detailed in ClimateCraft specification M600-001.

Note 2: 1/4in. NPT Vent Nipple & Cap-10.09in. Lg

Flow drill 0.542/0.550" dia. hole in header at location shown for vent nipple. Cut connection (item 18) to length indicated. Thread one end with 1/4" x 18 tpi tapered pipe threads. Braze other end into copper header according to procedures outlined in ClimateCraft BP-1. Cap with item 19.

Note 3: Connection Hole Size = 2.634/2.640 in. for Type L Copper Tube
Flow drill connection hole into the riser tube in the location shown.

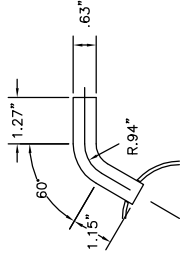
Braze connection according to the procedures outlined in BP-1 for red brass, BP-5 for steel or BP-6 for copper. Hold the "A" dimension with a brazing fixture.

Note 3A: Connection Type is MPT Sweat Adapter - Fab per M600-010

Cut the outlet connection nozzle tube/pipe (item 15) to the length as indicated in the "CL" dimension and fabricate the nozzle per the details in the fabrication drawing listed above.

Note 4: 19 Straight Feed Tubes - 2 in. x 0.035 in. wall

Cut straight feed tubes (item 21) per length shown. Flow drill 0.627/0.635" holes at the locations shown for the straight tubes. Braze with high silver content brazing rod per procedures outlined in ClimateCraft BP-4. Use a brazing fixture to control the location of the tube ends.



Offset Feed Tube Detail
(OF2-5S2)

Note 5: 1 Offset Feed Tube(s)-3.4in x 0.035in wall-per M600-002-019

If offset feed tubes are used flow drill 0.627/0.635" holes at the locations shown. Mill the holes radially into the header riser at the angle shown. Bend the curved feeder tubes per the details provided in M600-002. Braze with high silver content brazing rod per procedures outlined in ClimateCraft BP-4. Use a brazing fixture to control the location of the tube ends.

Note 6: Header End Plugs

Braze header end plugs (item 16) flush to the top and bottom of the header riser with high silver content brazing rod and flux according to the process outlined in ClimateCraft BP-3.

Note 7: Interference with connection pipe.

The holes drilled in the riser for the feed tubes will sometimes interfere with the connection pipe weld when upstream or downstream connections are used. This will be apparent on the header drawing. When this occurs mill the affected holes after welding. Grind the welds smooth in the affected area to prepare for milling and brazing.

Note 8: Dimensional Tolerances

Hole to Hole tolerance = +/- 0.01"

Conn End Location tolerance = +/- 0.19"

All other tolerances = +/- 0.060"

Note 9: Hole Flow Drilling

The holes for the connection pipe, the vent pipe, and the feed tubes are to be drilled into the copper riser on the Tridan flow drilling machine in order to form the brazing collars. Insert the riser tube with the reference dimension (0,0) against the spacer block. Each hole to be drilled has a Drill Code associated with the hole dimension. The Drill Code details the pattern plate, spacer block and hole number in the pattern plate to use for that hole. Drill the hole for the vent pipe first, the connection pipe next, and the feed tubes last.

Mark a line on the copper riser at the reference end to indicate the reference angle (0 degrees). Rotate the mark to line it up with the angle shown on the top view of the header for each hole or set of holes drilled.

Drill Code: S11B4

Pattern Plate: S11B4 - Spacer Block

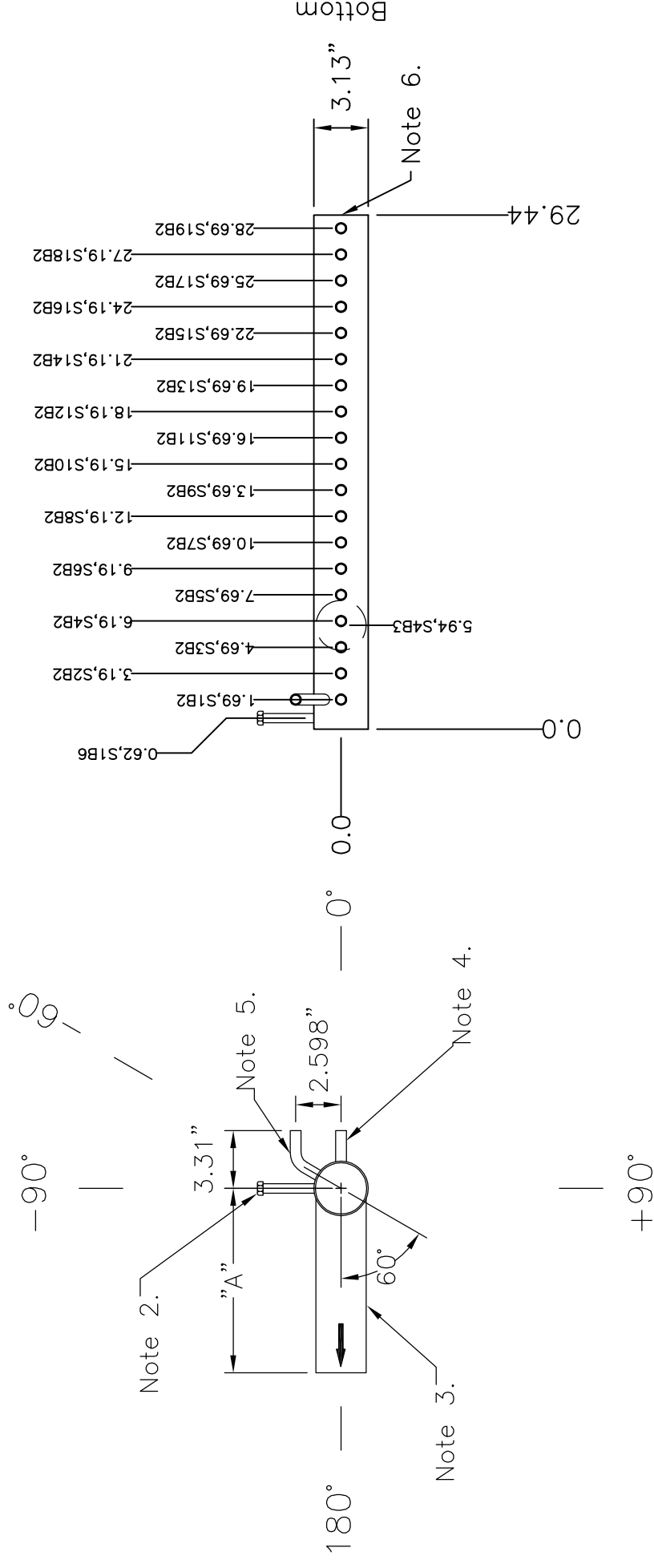
S-Single Row B0 - 0.25" B1 - 0.56"

D-Dual Row B2 - 1.00" B3 - 1.25"

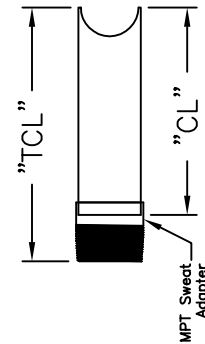
Hole Number B4 - 1.31" B5 - 1.56"

B6 - 2.06" B7 - 1.75"

B8 - 2.00"



Connection Nozzle - Note 3A



Outlet Header Assembly A = 10.56 in.
Connection Tube Cut Length CL = 7.75 in.
Total Conn. Assy. Length TCL = 10.12 in.

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JOB NAME:

U of K Combs Cancer Center AHU-6

BY JM

DATE 09/08/17

REV 0

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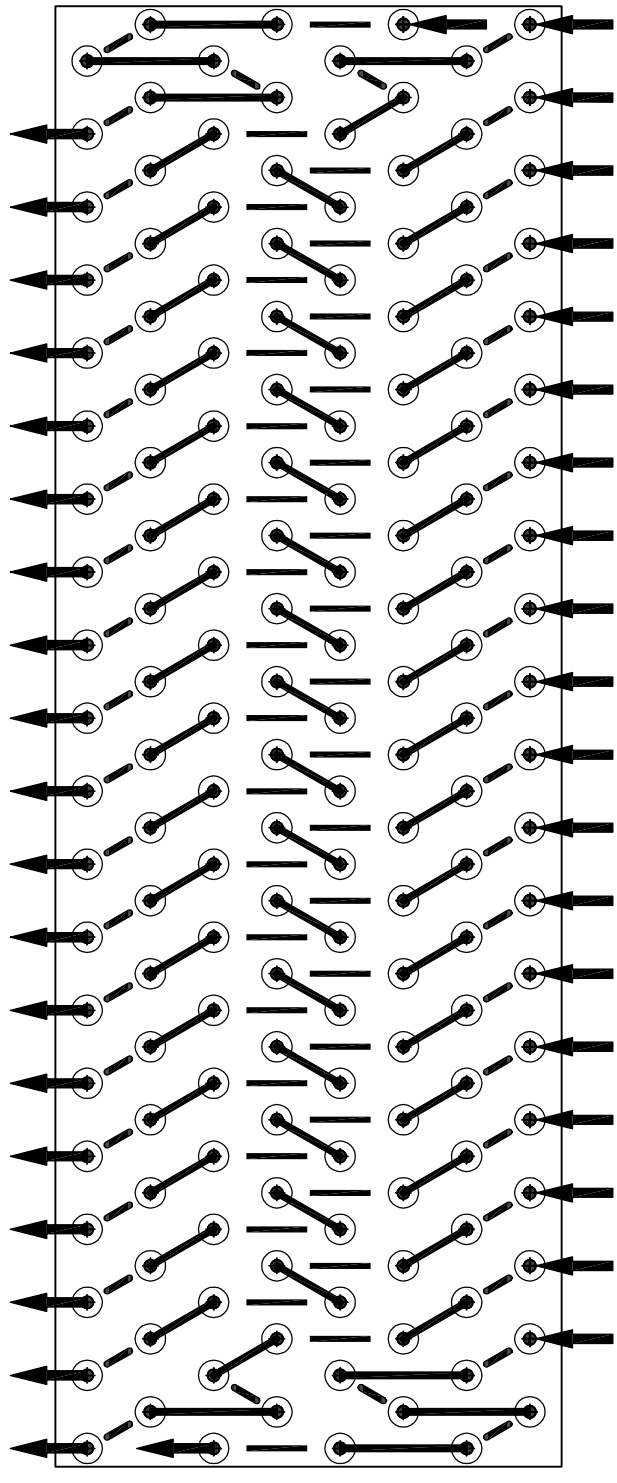
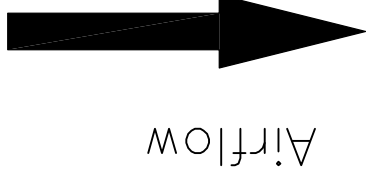
SIZE B

Sht 7 of 10

SN: SN26310 TAG: CW1

Coil Circuiting Diagram


Circuit Schematic is viewed from
Header End



Left Hand Coil - Circuit Diagram - Bottom

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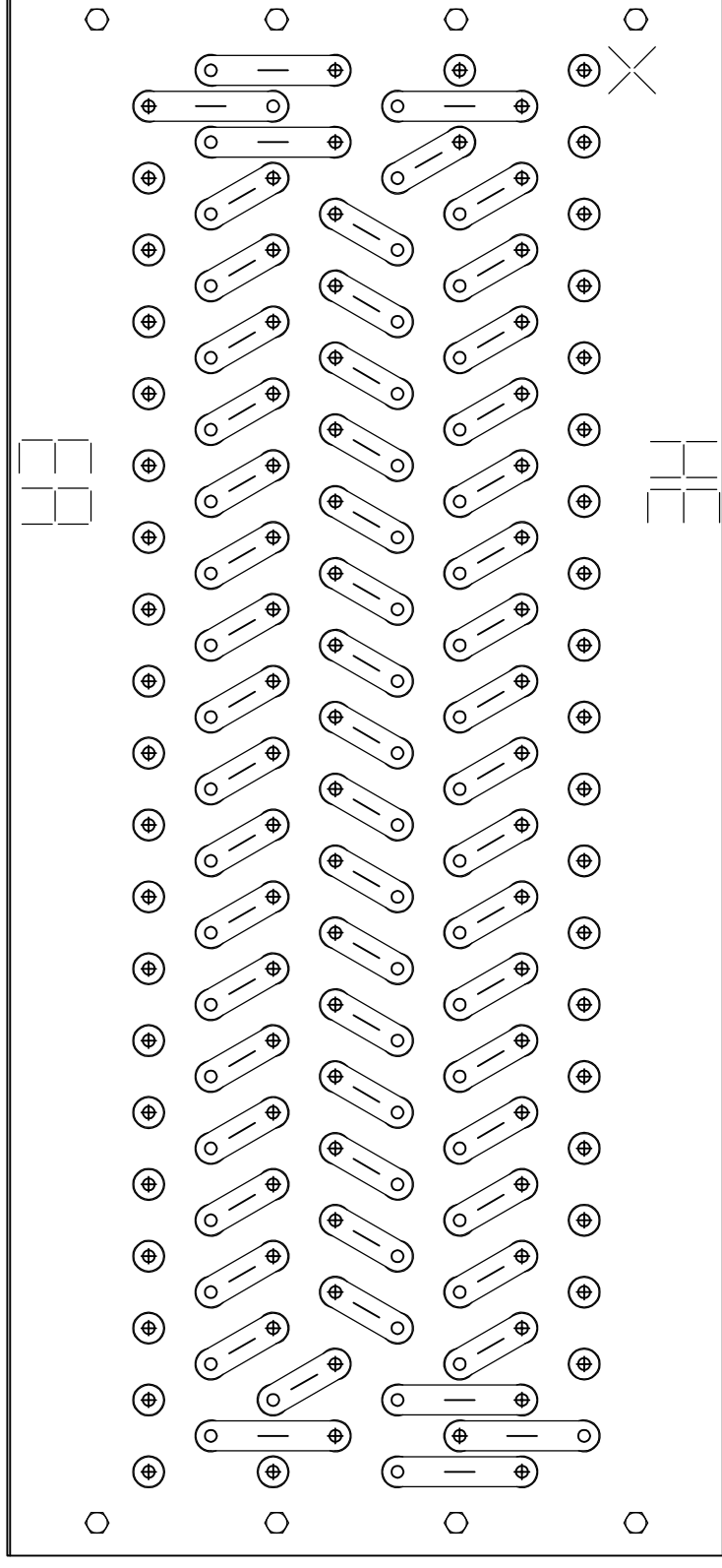
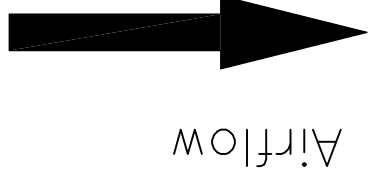

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OKLAHOMA CITY, OK 73101-1538
PHONE (405) 415-9230 - FAX (405) 415-9231

JOB NAME:
U of K Combs Cancer Center AHU-6
SN: SN26310 TAG: CW1

BY JM
REV 0
DATE 09/08/17
DATE 09/08/17
SIZE B
Sht 8 of 10

Header End Connection Diagram

Diagram is viewed from Header End



Left Hand Coil - Header End - Bottom

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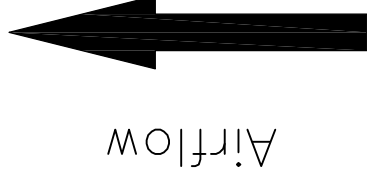
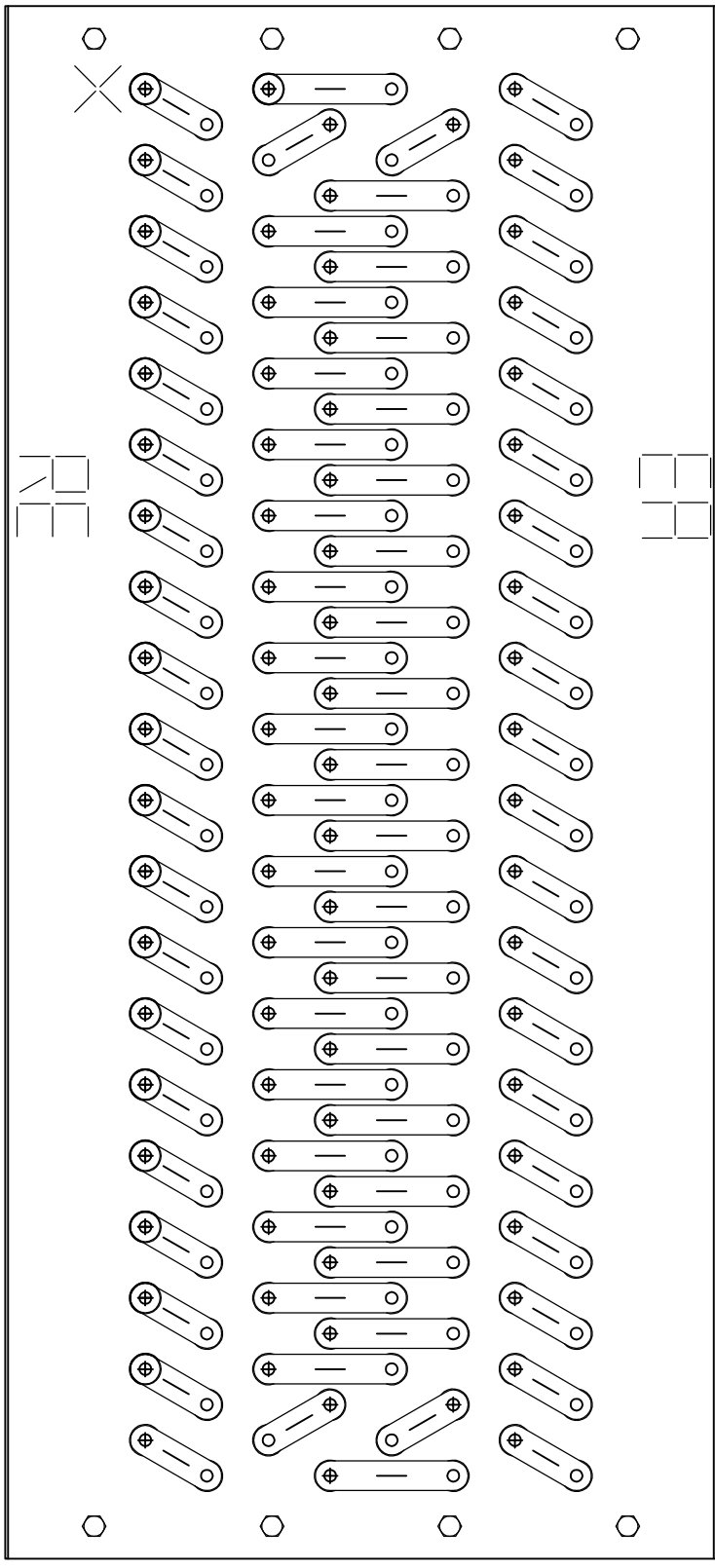
SIZE B

Sht 9 of 10

Return End Connection Diagram

Diagram is viewed from Return End

Left Hand Coil - Return End - Bottom



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SN: SN26310

TAG: CW1

BY JM

DATE 09/08/17

REV 0

DATE 09/08/17

SIZE B

Sht 10 of 10

Coil Performance Data

Project name : U of K Combs Cancer Center AHU-6	Unit Tag : AHU-6
Quotation no. : QN170504.02	V7.0.144.0 (16-Aug-2017) / V7.0.144.0 (16-Aug-2017)
Serial Number : 26310	

CHILLED WATER COOLING COIL(S)		Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.
		MFG: ClimateCraft Inc. (SelVer: 3.5.0.4)

Operating Conditions		Air Conditions		Fluid Conditions	
Airflow:	12,000 SCFM	Entering air (DB):	95.0 °F	Fluid:	Water
Elevation:	988.0 ft	Entering air (WB):	78.0 °F	Entering temp:	42.0 °F
Air pressure:	14.213 psia	Leaving air (DB):	53.2 °F	Leaving temp:	56.0 °F
Air density:	0.067 lb/ft³	Leaving air (WB):	53.0 °F	Flow rate:	151.05 gpm
		Face velocity:	465 ft/min	Pressure drop:	12.46 ft WC
		Air pressure drop:	0.82 in WC		5.4 psid
		Section pressure:	-2.94 in WC	Fluid velocity:	4.66 ft/sec

Total Coil Bank Ratings		Coil Data		Coil Options	
Total capacity:	1072952 Btu/hr	Face area:	25.8 ft²	Tube material:	Copper
Sensible capacity:	542206 Btu/hr	Finned height:	60 ins	Tube thickness:	0.035 ins
Sensible heat ratio:	0.51	Finned width:	62 ins	Fin type:	V-Waffle
		Rows:	8	Fin material:	Aluminum
		Fins/inch:	9	Fin thickness:	0.0095 ins
		Serpentine:	1	Casing material:	304 SS
		Dry weight (Ea.):	504 lb	Connections:	Red Brass MPT
		Wet weight (Ea.):	607 lb	Coating:	None
				Vent & drain:	Internal - NPT Plug

Individual Coil Ratings										
Coil Tag(s)	Model Number	Capacity Btu/hr	Airflow cfm	Flow gpm	No. of circuits	Dimensions			Connection	
						H(ins)	L(ins)	D(ins)	Size(ins)	Style
1, 2	58WC30x062-08-09-AW	536,476	6,000	75.52	20	30.00	62.00	15.00	2.50	LHS

Coil Bank Layout		Coil Drawing

Coil Dimensional Drawing

Coil Model: 58WC30x062-08-09AW

Fin Height = 30 inches
 Finned Width = 62 inches
 Rows = 8
 Fin Series = 9 Fins per Inch
 Fins = 0.0095inch Thick Aluminum V Waffle Fin
 Tubes = 0.035 in. Copper
 Serpentine = 1
 Passes = 8 Number of Circuits = 20
 Connection = 2.5 In. MPT
 Connection Material = Red Brass Sweat Adapter
 Coil Hand = Left Hand Straight
 Same End Connections
 Casing = 16 ga. Type 304SS
 Coating = None
 Vent/Drain Kits = None

Quantity Required = 2

Coil Tag = SN26310-CW1

Coil Dimensions:

- A - Casing Depth = 15 inches
- B - Header Clearance = 5.25 inches
- C - Connection Extension = 9 inches
- D - Connection Size = 2.5 in. Nom. Pipe
- E - Center Support Spacing = 31 inches

Coil Dry Weight = 496 lbs

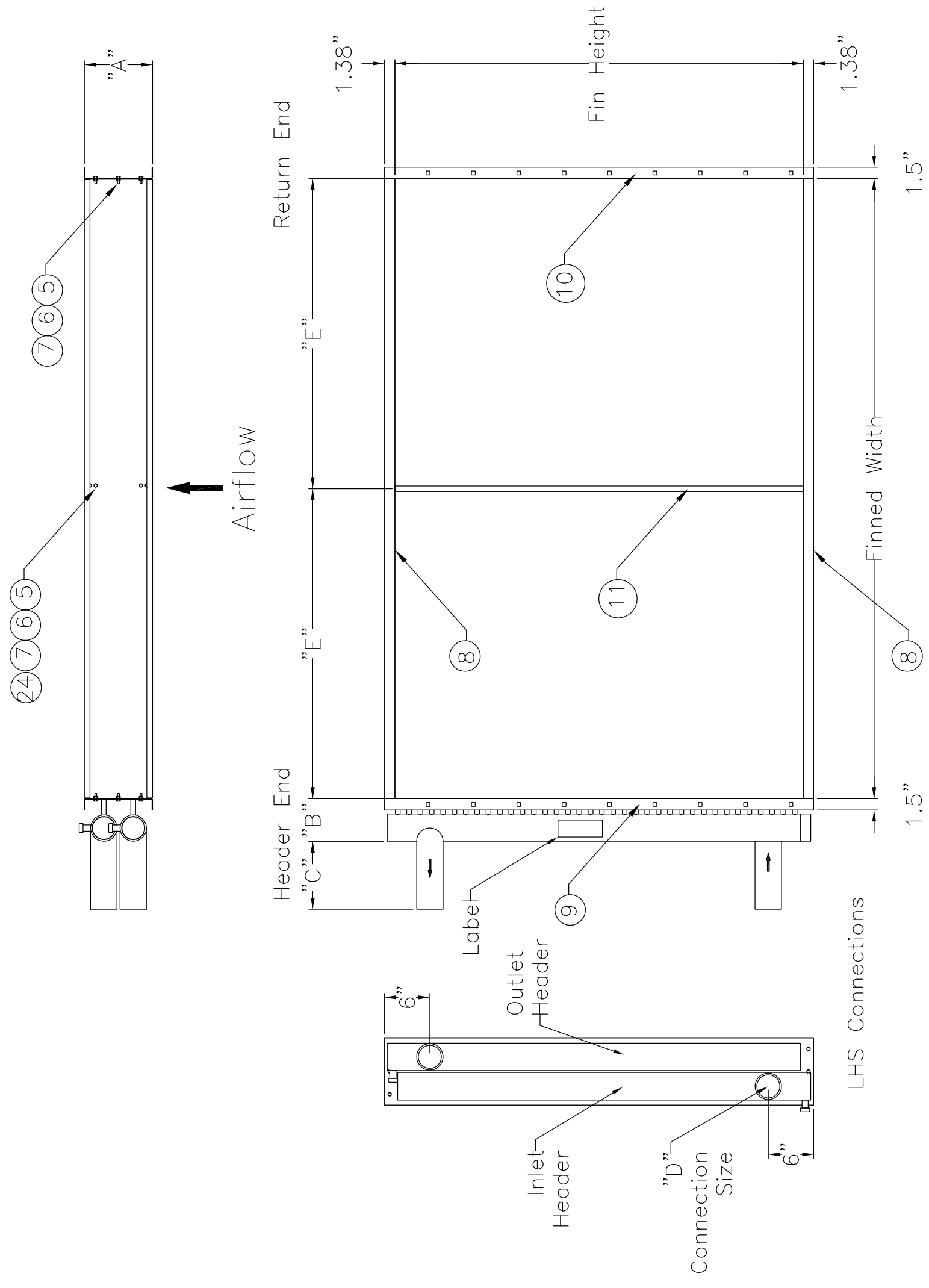
Drawing Contents

- Sheet 2 - Bill of Material
- Sheet 3 - Item 8 Stacking Flanges
- Sheet 4 - Item 9 and 10 - Tube Sheets
- Sheet 5 - Item 11 - Center Support(s)
- Sheet 6 - Inlet Header Assy
- Sheet 7 - Outlet Header Assy
- Sheet 8 - Circulating Schematic
- Sheet 9 - Header End Connection Diagram
- Sheet 10 - Return End Connection Diagram

Manufacture Coils to the specifications as detailed in ClimateCraft Document:


"M600-001 ClimateCraft Water Coils"

This outline drawing is for representation only and is not to scale. The number of square holes in the tubesheet flanges and the number of bolts connecting the tube sheets to the stacking flanges may not be accurately represented. Refer to the item detail drawings and the bill of material for accurate representations of those items.



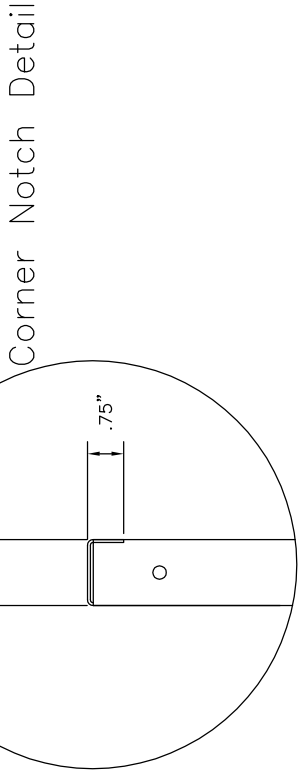
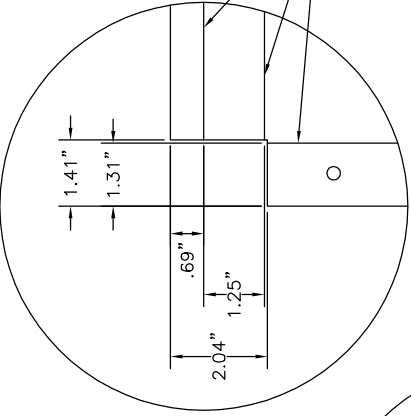
Note: A coil label is shown on the upstream side of the outlet header, Place the duplicate label on the downstream side of the inlet header in the same place.

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		BY: JM REV: 0 SIZE: B	DATE: 09/08/17 DATE: 09/08/17 Sht 1 of 10


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Item	Item Description	Qty	Length	Width	Scrap Factor	CNC File	Part Description	Part Number	Extended Quantity	U/M	Unit Weight	Extended Weight
1	Copper Tubes	160	64.7		0.05		Copper Tube, 5/8in. OD x 0.035in. Wall Thk	PPLB-040-003	216.9	LB	1	216.9
2	Fins, Die Formed	558	30	10.39	0.13		Aluminum Fin Stock, 0.0095in. Thk, 11.142in. Wide	PCOI-005-006	166.7	LB	1	166.7
3	Short Return Bends, 1.5in.	96			0.02		Straight Tangent Return Bend, 1.5in., 0.035in. Wall	PPLB-025-002	96	EA	0.065	6.2
4	Long Return Bends, 2.600in.	44			0.02		Straight Flat Return Bend, 2.60in., 0.035in. Wall	PPLB-025-005	44	EA	0.088	3.9
5	Cap Screws	20			0.1		1/4-20 x 3/4in. type 304 SS hex head bolt	PFAS-060-001	20	EA	0.145	2.9
6	Hex Nuts	20			0.1		1/4-20 type 304 stainless steel hex nut	PFAS-061-001	20	EA	0.074	1.5
7	Lock Washers	20			0.1		1/4in. ID type 304 stainless steel lock washer	PFAS-062-001	20	EA	0.003	0.1
8	Stacking Flanges	2	64.51	18.76	0.2	CW1+1	Steel, Type 304 Stainless, 16Ga.	PSTL-003-001	16.81	SF	2.28	38.3
9	Tube Sheet - Header End	1	32.75	22.76	0.2	CW1+2	Steel, Type 304 Stainless, 16Ga.	PSTL-003-001	5.18	SF	2.28	11.8
10	Tube Sheet - Return End	1	32.75	22.76	0.2	CW1+3	Steel, Type 304 Stainless, 16Ga.	PSTL-003-001	5.18	SF	2.28	11.8
11	Center Supports	1	31.58	21.26	0.2	CW1+4	Steel, Type 304 Stainless, 16Ga.	PSTL-003-001	4.66	SF	2.28	10.6
12	Inlet Header Riser	1	29		0.1		Copper Tubing, Type L, 3in. Nominal, 3.125 OD	PPLB-020-007	2.42	LF	3.33	8.1
13	Outlet Header Riser	1	29.44		0.1		Copper Tubing, Type L, 3in. Nominal, 3.125 OD	PPLB-020-007	2.45	LF	3.33	8.2
14	Inlet Header Connection Tube/Pipe	1	7.745		0.1		Copper Tube, Type L, 2.5in. Nominal	PPLB-020-006	0.65	LF	2.48	1.6
15	Outlet Header Connection Tube/Pipe	1	7.745		0.1		Copper Tube, Type L, 2.5in. Nominal	PPLB-020-006	0.65	LF	2.48	1.6
16	Header End Plugs	4			0.1		Copper Disc, 2.931in. OD x 0.125in. Thick	M600-004-005	4	EA	0.272	1.1
17	Inlet Header Drain Nipple	1	1		0.1		Red Brass Pipe, Sched 40, 1/4 in. Nominal	PPLB-021-011	0.08	LF	0.447	0.04
18	Outlet Header Vent Nipple	1	10.09		0.1		Red Brass Pipe, Sched 40, 1/4 in. Nominal	PPLB-021-011	0.84	LF	0.447	0.38
19	Drain/Vent Pipe Cap	2			0.1		Red Brass Pipe Cap, Sched 40, 1/4 FPT in. Nominal	PPLB-023-001	2	EA	0.15	0.3
20	Inlet Header Feed Tubes - Straight	19	2		0.1		Copper Tube, 5/8in. OD x 0.035in. Wall Thk	PPLB-040-003	0.8	LB	1	0.8
21	Outlet Header Feed Tubes - Straight	19	2		0.1		Copper Tube, 5/8in. OD x 0.035in. Wall Thk	PPLB-040-003	0.8	LB	1	0.8
22	Inlet Header Feed Tubes - Offset	1			0.1		Offset Feed Tube, 0.035in. Wall Thk	M600-002-019	1	EA	0.07	0.07
23	Outlet Header Feed Tubes - Offset	1			0.1		Offset Feed Tube, 0.035in. Wall Thk	M600-002-019	1	EA	0.07	0.07
24	Center Support Flat Washer	8			0.1		1/4in ID x 5/8in OD x 0.05in, 18-8 SS flat washer	PFAS-070-001	8	EA	0.01	
25	Connection Protector	2					Plastic Thread Cap, 2.5in. pipe	PPLB-038-003	2	EA	0.02	
26	Center Support Hole Seal Plate	4					Coil Flange Seal Assembly, SS	M100-321-001	4	EA	0.053	0.2
27	Coil Connection MPT Sweat Adapter	2					Red Brass Adapter, 2.5 in MPT x 2.5 in ODS	M600-009-003	2	EA	1.5	3

<p style="text-align: center;">COIL MANUFACTURING DRAWING</p> <p style="font-size: small;">WITHOUT THE EXPRESS WRITTEN PERMISSION OF ClimateCraft Inc. DO NOT REPRODUCE OR DISCLOSE THE CONTENTS OF THIS DRAWING THIS DRAWING AND IT'S CONTENTS ARE THE PROPERTY OF ClimateCraft Inc.</p>	<div style="text-align: center;">  <p>ClimateCraft <small>PO BOX 1538, 1427 N.W. THIRD OKLAHOMA CITY, OK 73101-1538 PHONE (405) 415-9230 - FAX (405) 415-9231</small></p> </div> <p style="font-size: x-small;">JOB NAME: U of K Combs Cancer Center AHU-6 SN: SN26310 TAG: CW1</p>												
<p style="font-size: x-large; margin: 0;">Bill of Material</p>	<table border="0" style="width: 100%; font-size: x-small;"> <tr> <td>BY</td> <td>JM</td> <td>DATE</td> <td>09/08/17</td> </tr> <tr> <td>REV</td> <td>0</td> <td>DATE</td> <td>09/08/17</td> </tr> <tr> <td>SIZE</td> <td>B</td> <td>Sht</td> <td>2 of 10</td> </tr> </table>	BY	JM	DATE	09/08/17	REV	0	DATE	09/08/17	SIZE	B	Sht	2 of 10
BY	JM	DATE	09/08/17										
REV	0	DATE	09/08/17										
SIZE	B	Sht	2 of 10										



Flange Bend Detail

Note 1: 3 Center Support Bolt Clearance Slots
 0.281" dia. by 1.0" center to center bolt clearance slots located as shown.
 The locating dimensions are to the center of the slot.

Note 2: 6 Tubesheet Bolt Clearance Holes
 0.281" bolt clearance holes.

Holes are dimensioned on the right side of the stacking flange. The holes are equally spaced as dimensioned. The holes on the left side are symmetrical to the top holes about the center of the stacking flange.

Note 3: CNC Output File = WC-CW1+1

Note 4: Dimensional Tolerances

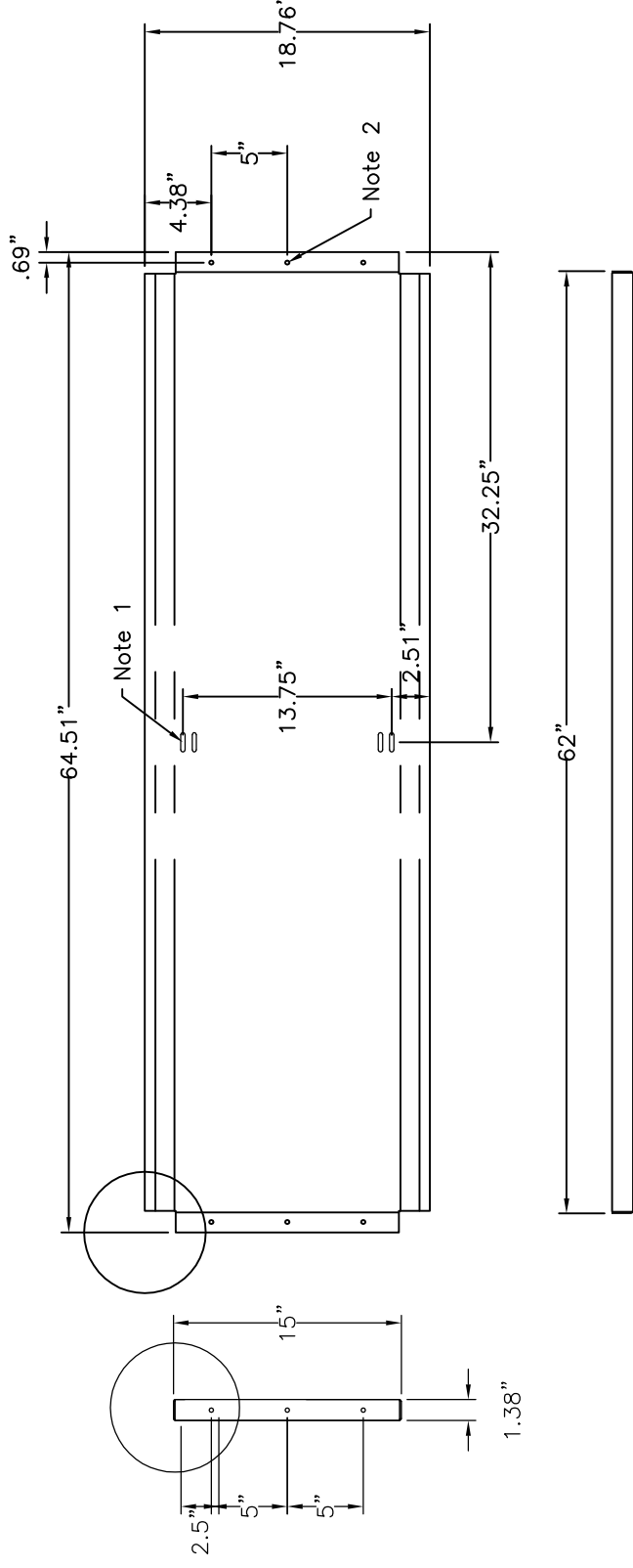
Hole to Hole tolerance = ± 0.005 "
 Flat shearing tolerance = ± 0.030 "
 Bend to Bend tolerance = ± 0.060 "

Note 5: Material

The material is either 16 ga. G90 galvanized steel, 16 ga. type 304 or type 316 stainless steel as designated in the Bill of Material.

Note 5: Construction

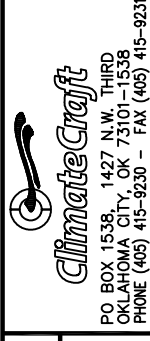
The Stacking Flanges are designed to be symmetrical so that the same flange can be used on the top and bottom of the coil.



Stacking Flange - Item 8 - 2 Required

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SN: SN26310 TAG: CW1

BY	JM	DATE	09/08/17
REV	0	DATE	09/08/17
SIZE	B	Sht	3 of 10

Note 1: 160 Tube Holes

Punch, Extrude, and coin holes per figure 2a of M600-001. Holes are extruded out into the flanged areas. Only the first hole is dimensioned for clarity. The remaining holes are punched with a row pitch of 1.299" and a face pitch of 1.5". The hole labeled with the leader is for tube 1 which is to be placed on the bottom leaving air side of the coil.

Note 2: 10 Square mounting holes

0.5" x 0.5" Square holes. The first hole is dimensioned to the center. Repeat the holes horizontally on 6.0" centers. The hole pattern on the opposite flange is symmetrical to the flange edges.

Note 3: 8 Bolt Clearance Holes

0.281" bolt clearance holes. Holes are dimensioned on the top of the tubesheet. The holes are equally spaced as dimensioned. The holes on the bottom are symmetrical to the top holes about the center of the tubesheet.

Note 4: Output Files:

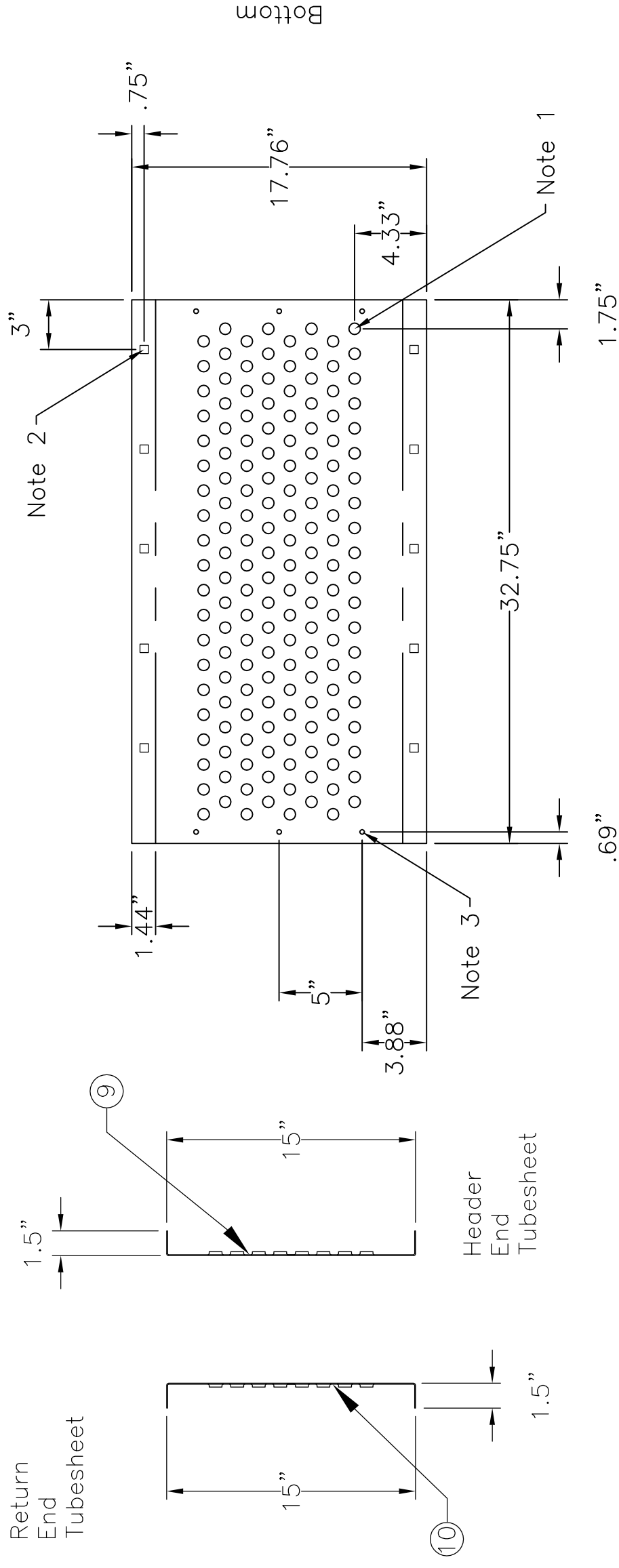
Header End = WC-CW1+2
Return End = WC-CW1+3

Note 5: Dimensional Tolerances

Hole to Hole tolerance = +/- 0.005"
Flat shearing tolerance = +/- 0.030"
Bend to Bend tolerance = +/- 0.060"

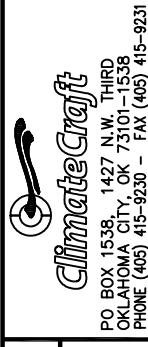
Note 6: Material

The material is either 16 ga. G90 galvanized steel, 16 ga. type 304 or type 316 stainless steel as designated in the Bill of Material.



Tubesheets - Item 9 and Item 10

COIL MANUFACTURING DRAWING

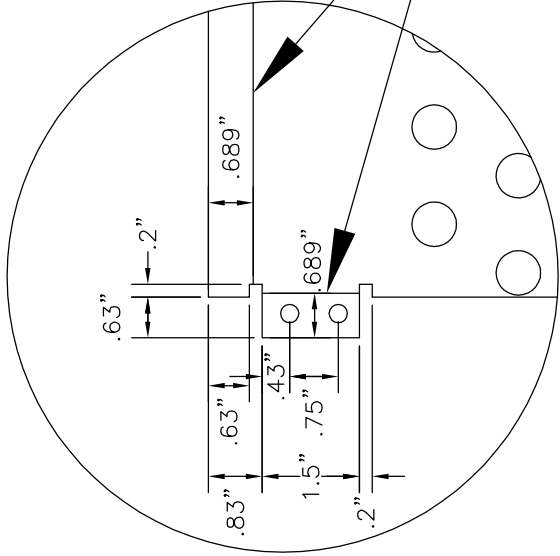


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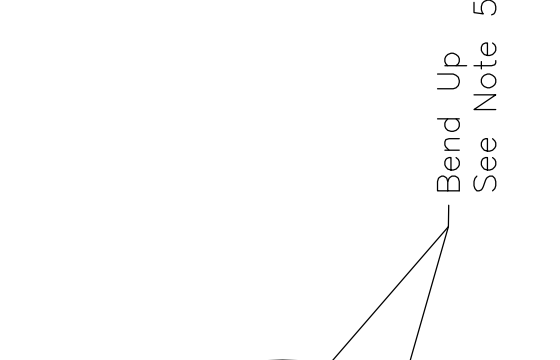
JOB NAME:

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BY	JM	DATE	09/08/17
REV	0	DATE	09/08/17
SIZE	B	Sht	4 of 10
SN:	SN26310	TAG:	CW1



Corner Bend Detail



Tab Detail
Typ. 4 Corners

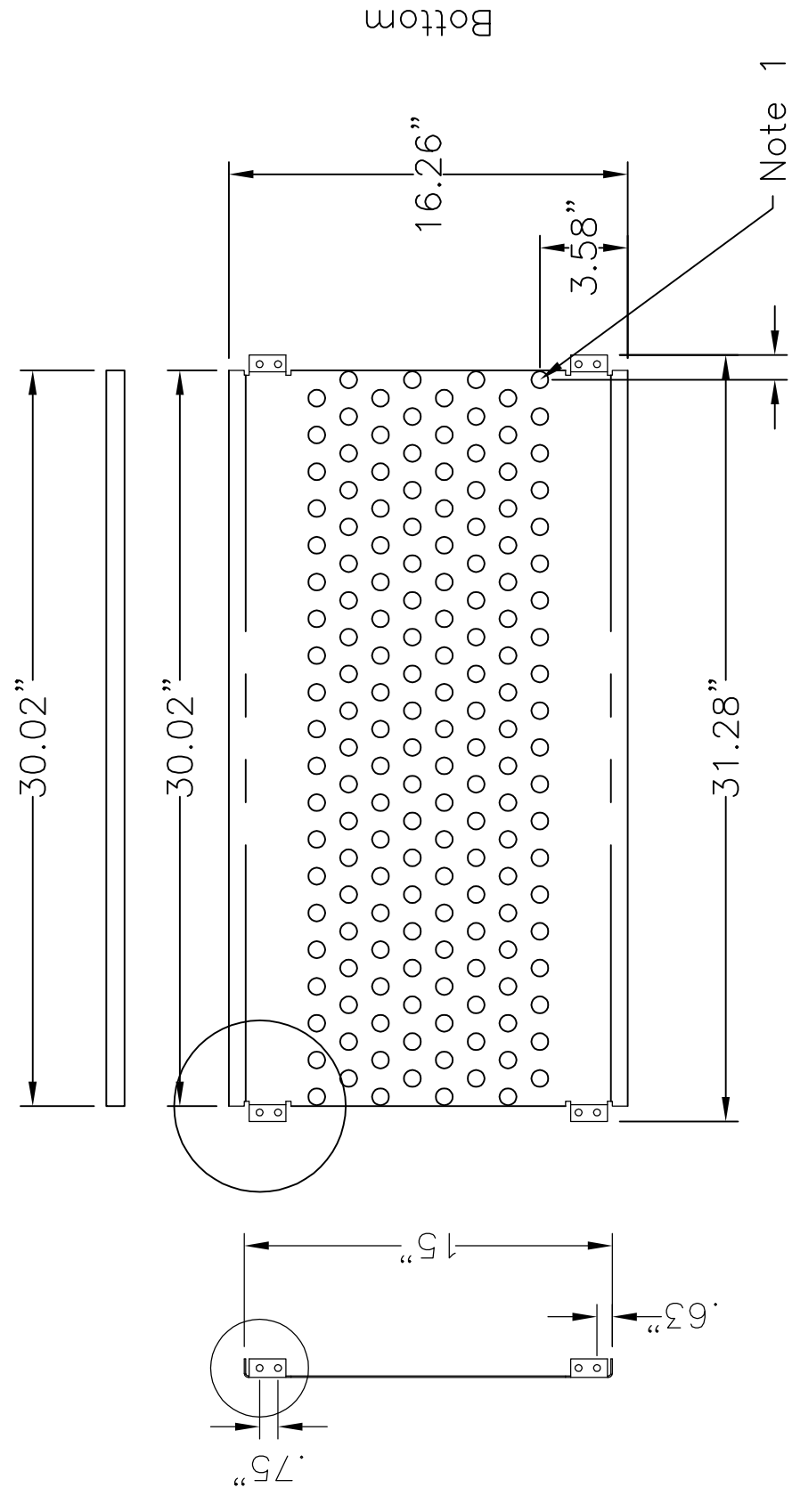
Note 1: 160 Tube Holes
0.683" Tube holes. Punch holes starting with dimensioned hole. The remaining holes are punched on a 1.5" x 1.299" triangular pattern. If there is only 1 row the holes are spaced on 1.5" centers. The hole labeled with the leader is for tube 1 which is to be placed on the bottom leaving air side of the coil.

Note 2: CNC Output File = WC-CW1+4

Note 3: Dimensional Tolerances
Hole to Hole tolerance = +/- 0.005"
Flat shearing tolerance = +/- 0.030"
Bend to Bend tolerance = +/- 0.060"

Note 4: Material
The material is either 16 ga. G90 galvanized steel, 16 ga. type 304 or type 316 stainless steel as designated in the Bill of Material.

Note 5: Bend Tabs flush so that they do not extend beyond the height of the center supports.



1.01"

Center Supports Item 11 -1 Required

		JOB NAME: U of K Combs Cancer Center AHU-6	BY: JM REV: 0 DATE: 09/08/17	DATE: 09/08/17
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Note 1: 2.5 in. - Left Hand Straight connections

Fabricate headers using materials and processes detailed in ClimateCraft specification M600-001.

Note 2: 1/4in. NPT Drain Nipple & Cap-1in. Lg

Flow drill 0.542/0.550" dia. hole in header at location shown for drain nipple. Cut red brass pipe (item 17) to length indicated. Thread one end with 1/4" x 18 tpi tapered pipe threads. Braze other end into copper header according to procedures outlined in ClimateCraft BP-1. Cap with item 19.

Note 3: Connection Hole Size = 2.634/2.640 in. for Type L Copper Tube
Flow drill connection hole into the riser tube in the location shown.

Braze connection according to the procedures outlined in ClimateCraft BP-1 for red brass, BP-5 for steel, or BP-6 for copper. Hold the "A" dimension with a brazing fixture.

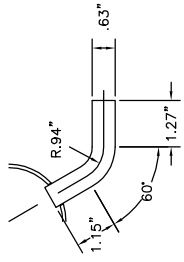
Note 3A: Connection Type is MPT Sweat Adapter - Fab per M600-010

Cut the inlet connection nozzle tube/pipe (item 14) to the length as indicated in the "CL" dimension and fabricate the nozzle per the details in the fabrication drawing listed above.

Note 4: 19 Straight Feed Tubes - 2 in. x 0.035 in. wall

Cut straight feed tubes (item 20) per length shown. Flow drill 0.627/0.635" holes at the locations shown for the straight tubes.

Braze with high silver content brazing rod per procedures outlined in ClimateCraft BP-4. Use a brazing fixture to control the location of the tube ends.



Offset Feed Tube Detail
(OF2-5S2D)

Note 5: 1 Offset Feed Tube(s)-3.4in x 0.035in wall-per M600-002-019

If offset feed tubes are used flow drill 0.627/0.635" holes at the locations shown. Mill the holes radially into the header riser at the angle shown. Bend the curved feeder tubes per the details provided in M600-002. Braze with high silver content brazing rod per procedures outlined in ClimateCraft BP-4. Use a brazing fixture to control the location of the tube ends.

Note 6: Header End Plugs

Braze header end plugs (item 16) flush to the top and bottom of the header riser with high silver content brazing rod and flux according to the process outlined in ClimateCraft BP-3.

Note 7: Interference with connection pipe.

The holes drilled in the riser for the feed tubes will sometimes interfere with the connection pipe weld when upstream or downstream connections are used. This will be apparent on the header drawing. When this occurs mill the affected holes after welding. Grind the welds smooth in the affected area to prepare for milling and brazing.

Note 8: Dimensional Tolerances

Hole to Hole tolerance = +/- 0.01"

Conn End Location tolerance = +/- 0.19"

All other tolerances = +/- 0.060"

Note 9: Hole Flow Drilling

The holes for the connection pipe, the drain pipe, and the feed tubes are to be drilled into the copper riser on the Tridan flow drilling machine in order to form the brazing collars. Insert the riser tube with the reference dimension (0,0) against the spacer block. Each hole to be drilled has a Drill Code associated with the hole dimension. The Drill Code details the pattern plate, spacer block and hole number in the drain pipe first, the connection pipe next, and the feed tubes last.

Mark a line on the copper riser at the reference end to indicate the reference angle (0 degrees). Rotate the mark to line it up with the angle shown on the top view of the header for each hole or set of holes drilled.

Drill Code: S11B4

Pattern Plate: S11B4 - Spacer Block

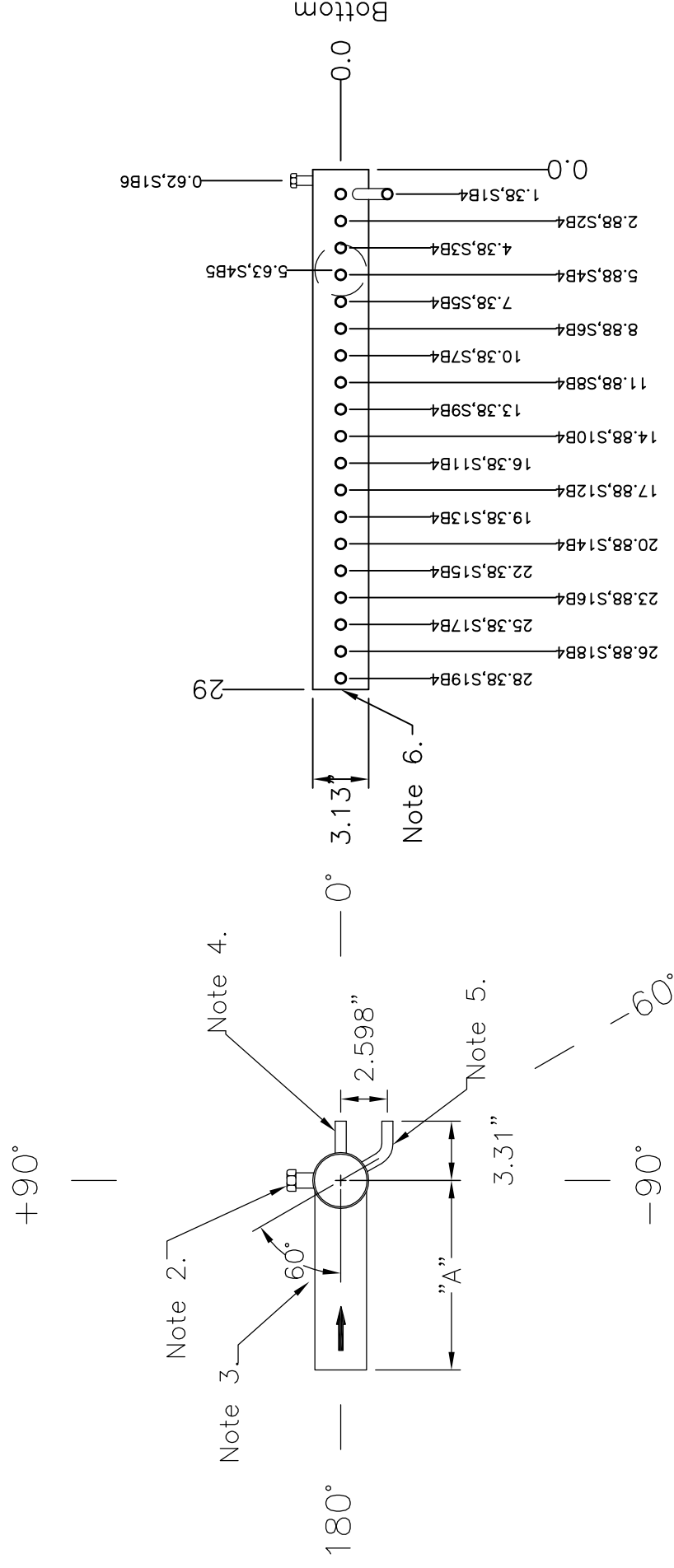
S-Single Row B0 - 0.25" B1 - 0.56"

D-Dual Row B2 - 1.00" B3 - 1.25"

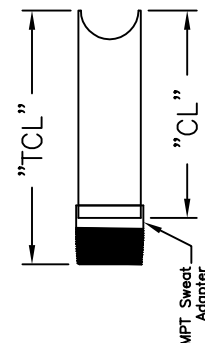
Hole Number B4 - 1.31" B5 - 1.56"

B6 - 2.06" B7 - 1.75"

B8 - 2.00"



Connection Nozzle - Note 3A



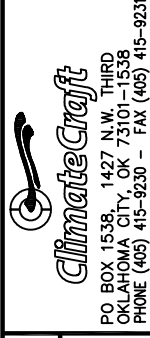
Inlet Header Assembly A = 10.56 in.

Connection Tube Cut Length CL = 7.75 in.

Total Conn. Assy. Length TCL = 10.12 in.

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SN: SN26310 TAG: CW1

BY	JM	DATE	09/08/17
REV	0	DATE	09/08/17
SIZE	B	Sht	6 of 10

Note 1: 2.5 in. - Left Hand Straight connections

Fabricate headers using materials and processes detailed in ClimateCraft specification M600-001.

Note 2: 1/4in. NPT Vent Nipple & Cap-10.09in. Lg

Flow drill 0.542/0.550" dia. hole in header at location shown for vent nipple. Cut connection (item 18) to length indicated. Thread one end with 1/4" x 18 tpi tapered pipe threads. Braze other end into copper header according to procedures outlined in ClimateCraft BP-1. Cap with item 19.

Note 3: Connection Hole Size = 2.634/2.640 in. for Type L Copper Tube
Flow drill connection hole into the riser tube in the location shown.

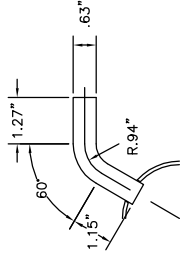
Braze connection according to the procedures outlined in BP-1 for red brass, BP-5 for steel or BP-6 for copper. Hold the "A" dimension with a brazing fixture.

Note 3A: Connection Type is MPT Sweat Adapter - Fab per M600-010

Cut the outlet connection nozzle tube/pipe (item 15) to the length as indicated in the "CL" dimension and fabricate the nozzle per the details in the fabrication drawing listed above.

Note 4: 19 Straight Feed Tubes - 2 in. x 0.035 in. wall

Cut straight feed tubes (item 21) per length shown. Flow drill 0.627/0.635" holes at the locations shown for the straight tubes. Braze with high silver content brazing rod per procedures outlined in ClimateCraft BP-4. Use a brazing fixture to control the location of the tube ends.



Offset Feed Tube Detail
(OF2-5S2)

Note 5: 1 Offset Feed Tube(s)-3.4in x 0.035in wall-per M600-002-019

If offset feed tubes are used flow drill 0.627/0.635" holes at the locations shown. Mill the holes radially into the header riser at the angle shown. Bend the curved feeder tubes per the details provided in M600-002. Braze with high silver content brazing rod per procedures outlined in ClimateCraft BP-4. Use a brazing fixture to control the location of the tube ends.

Note 6: Header End Plugs

Braze header end plugs (item 16) flush to the top and bottom of the header riser with high silver content brazing rod and flux according to the process outlined in ClimateCraft BP-3.

Note 7: Interference with connection pipe.

The holes drilled in the riser for the feed tubes will sometimes interfere with the connection pipe weld when upstream or downstream connections are used. This will be apparent on the header drawing. When this occurs mill the affected holes after welding. Grind the welds smooth in the affected area to prepare for milling and brazing.

Note 8: Dimensional Tolerances

Hole to Hole tolerance = +/- 0.01"

Conn End Location tolerance = +/- 0.19"

All other tolerances = +/- 0.060"

Note 9: Hole Flow Drilling

The holes for the connection pipe, the vent pipe, and the feed tubes are to be drilled into the copper riser on the Tridan flow drilling machine in order to form the brazing collars. Insert the riser tube with the reference dimension (0,0) against the spacer block. Each hole to be drilled has a Drill Code associated with the hole dimension. The Drill Code details the pattern plate, spacer block and hole number in the pattern plate to use for that hole. Drill the hole for the vent pipe first, the connection pipe next, and the feed tubes last.

Mark a line on the copper riser at the reference end to indicate the reference angle (0 degrees). Rotate the mark to line it up with the angle shown on the top view of the header for each hole or set of holes drilled.

Drill Code: S11B4

Pattern Plate: S11B4 - Spacer Block

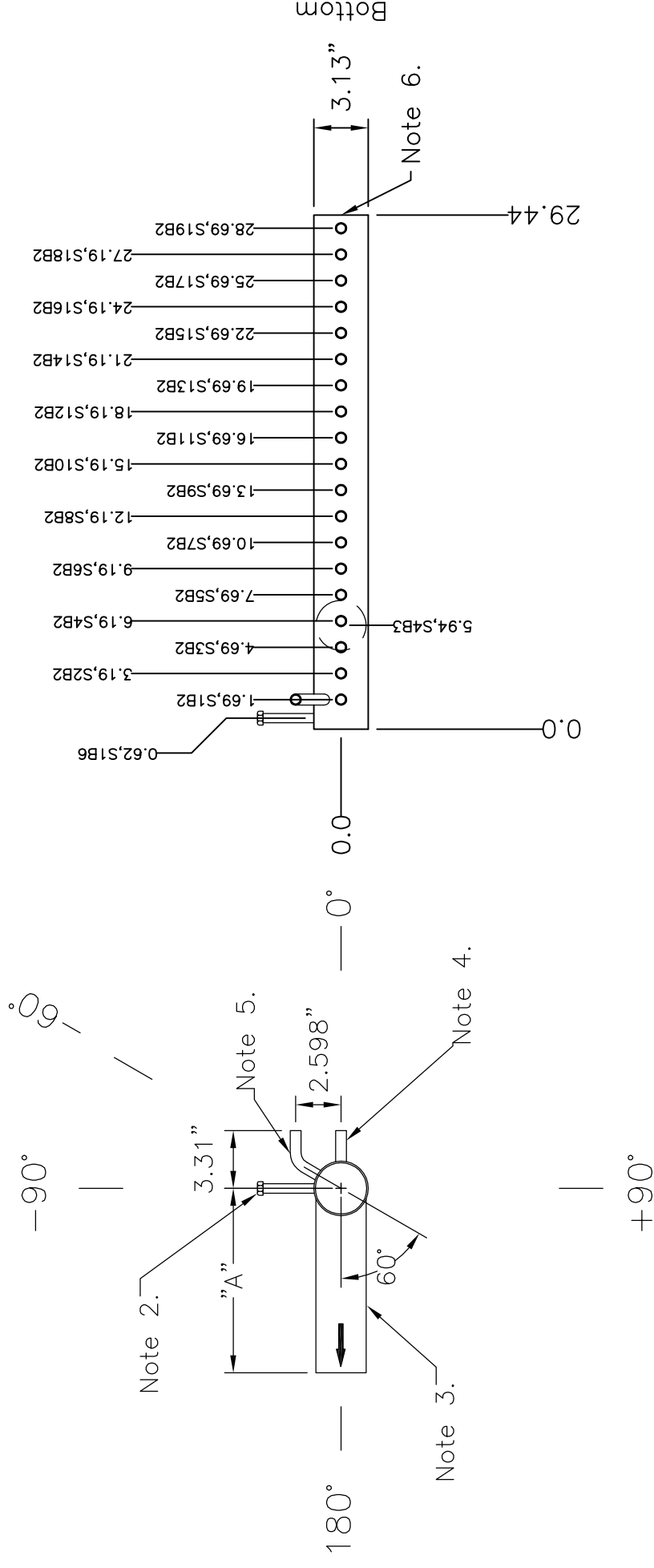
S-Single Row B0 - 0.25" B1 - 0.56"

D-Dual Row B2 - 1.00" B3 - 1.25"

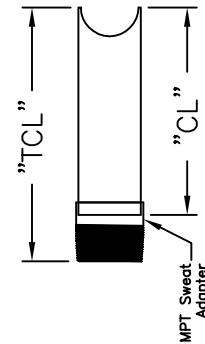
Hole Number B4 - 1.31" B5 - 1.56"

B6 - 2.06" B7 - 1.75"

B8 - 2.00"



Connection Nozzle - Note 3A



Outlet Header Assembly A = 10.56 in.

Connection Tube Cut Length CL = 7.75 in.

Total Conn. Assy. Length TCL = 10.12 in.

COIL MANUFACTURING DRAWING

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ClimateCraft
PO BOX 1538, 1427 N.W. THIRD
OKLAHOMA CITY, OK 73101-1538
PHONE (405) 415-9230 - FAX (405) 415-9231

JOB NAME:

U of K Combs Cancer Center AHU-6

BY JM

DATE 09/08/17

REV 0

DATE 09/08/17

SN: SN26310

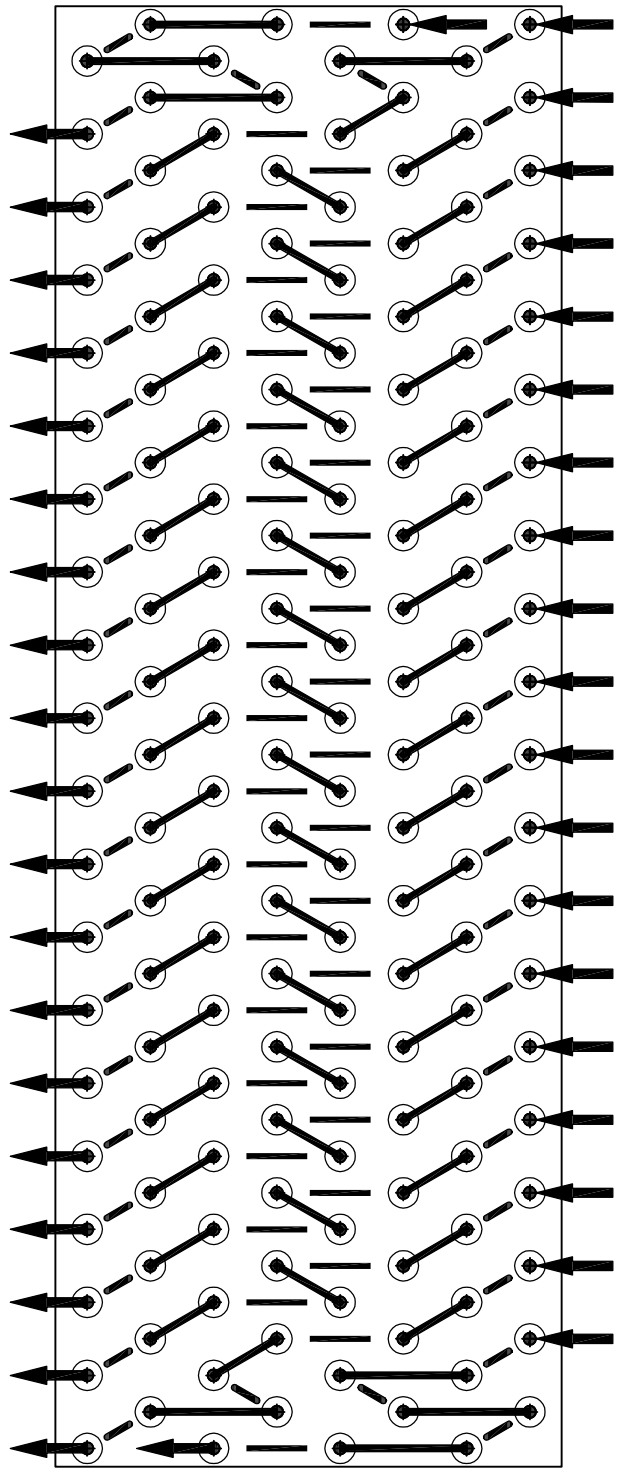
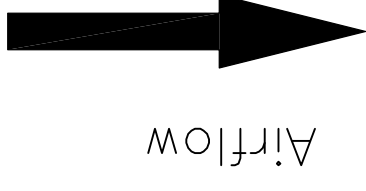
TAG: CW1

SIZE B

Sht 7 of 10

Coil Circuiting Diagram


Circuit Schematic is viewed from
Header End



Left Hand Coil - Circuit Diagram - Bottom

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PHONE (405) 415-9230 - FAX (405) 415-9231

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U of K Combs Cancer Center AHU-6

SN: SN26310

TAG: CW1

BY JM

DATE 09/08/17

REV 0

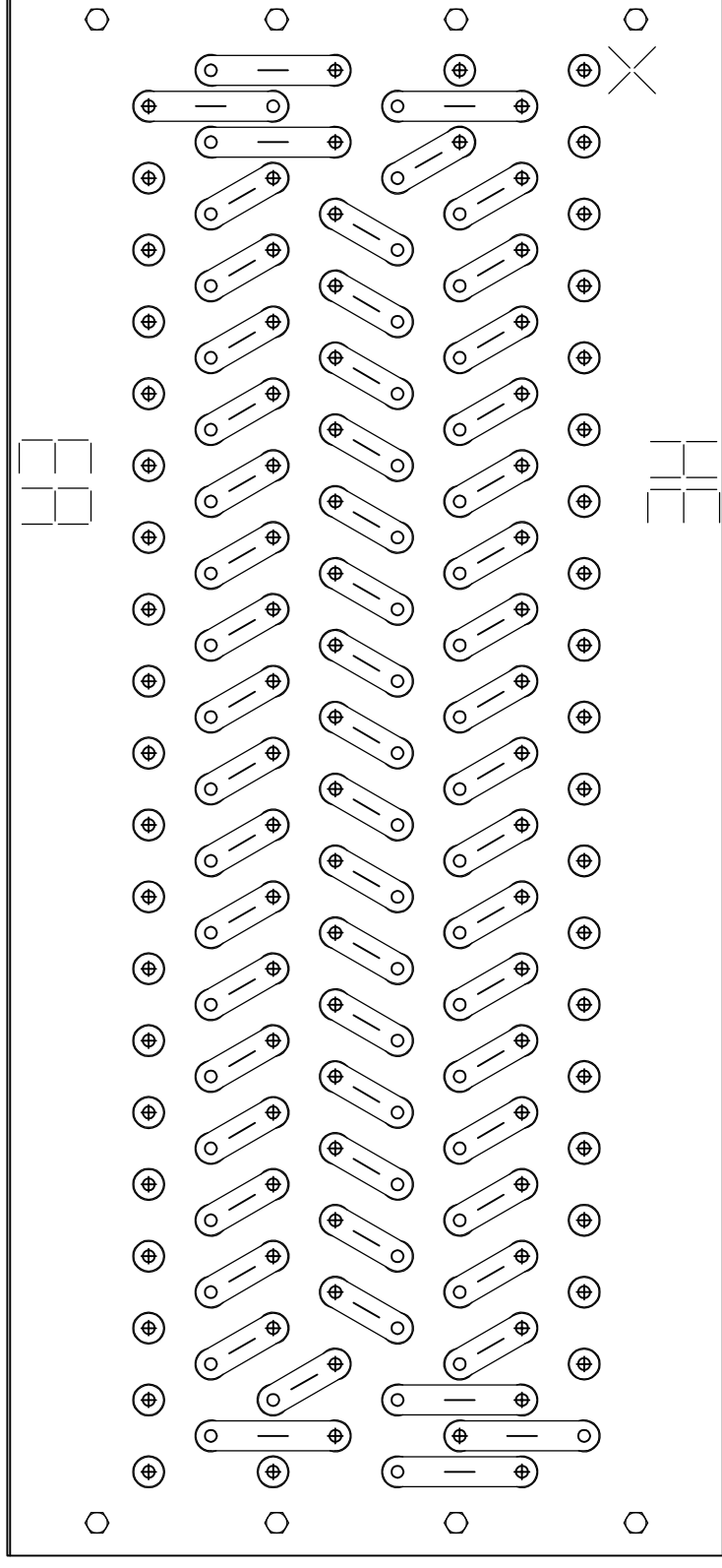
DATE 09/08/17

SIZE B

Sht 8 of 10

Header End Connection Diagram

Diagram is viewed from Header End



Left Hand Coil - Header End - Bottom

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SN: SN26310

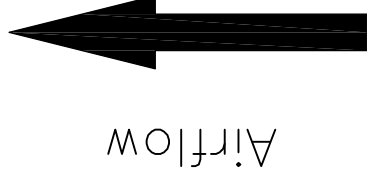
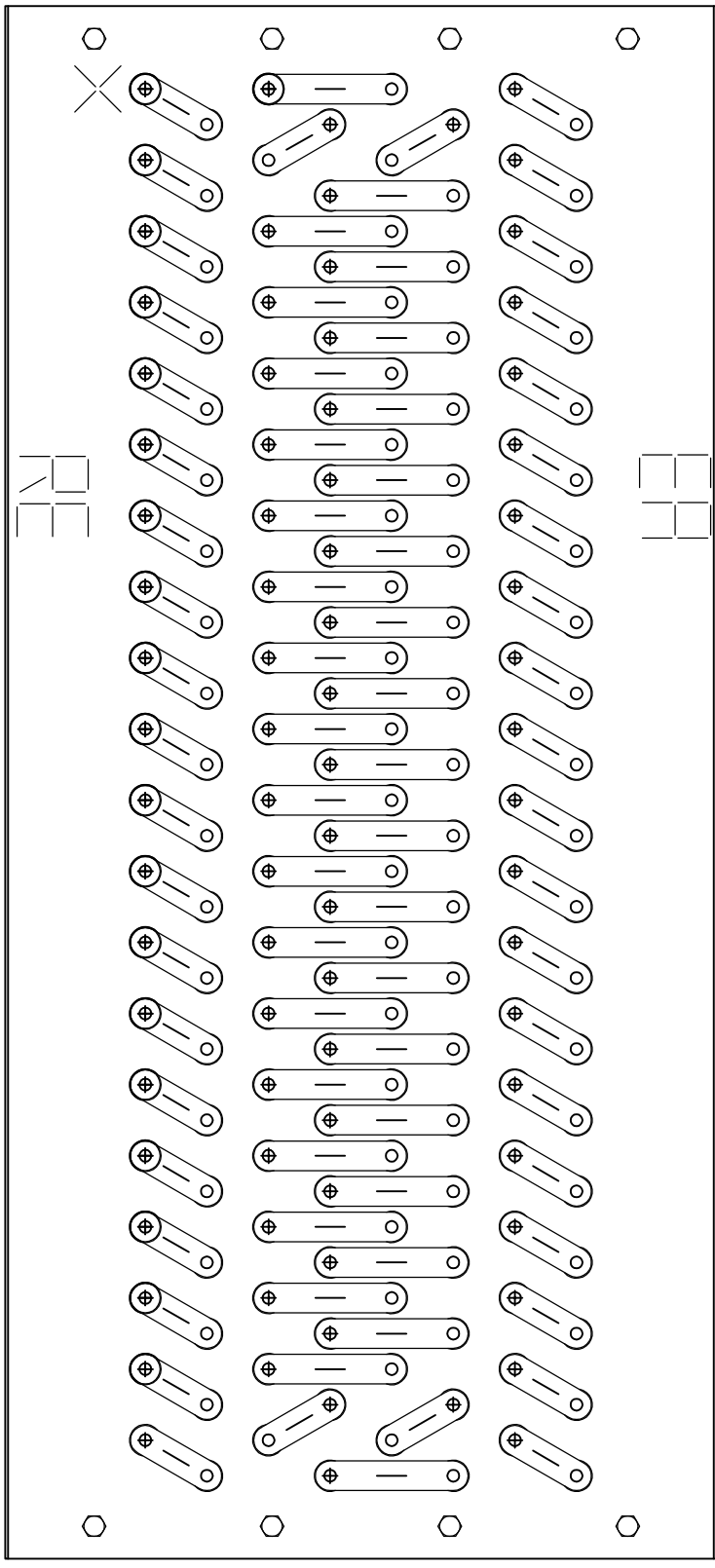
TAG: CW1

BY	JM	DATE	09/08/17
REV	0	DATE	09/08/17
SIZE	B	Sht 9 of 10	

Return End Connection Diagram

Diagram is viewed from Return End

Left Hand Coil - Return End - Bottom



COIL MANUFACTURING DRAWING

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JOB NAME:

U of K Combs Cancer Center AHU-6

SN: SN26310

TAG: CW1

BY JM

DATE 09/08/17

REV 0

DATE 09/08/17

SIZE B

Sht 10 of 10

January 30, 2023

Air Equipment Company (Louisville-Lexington)

Ref: SN26310 UK Replacement CW Coil
QN230130.01

Revision A

ClimateCraft is pleased to offer the following quotation for the custom coil as detailed below to be provided for field installation "By Others".

Unit Tag	CFM	Total Assembled Coil Weight	Heaviest Coil Weight
CW01	6,000	600 lbs	600 lbs

Unit Components:

Coils

- Water coils provided with 5/8" X 0.035" copper tubes, 0.0095" aluminum fins
 - 304 Stainless steel frames provided for cooling coils
 - Drain Pans **not** provided

Unit Wiring and Electrical

- ClimateCraft does not provide conduit, cable, wire, pull boxes, junction boxes, wiring harnesses, or electrical labor
- 460V single point power panel **not** provided

Testing and Certification:

- All coils shall be tested with 400 psig compressed air under clear water. Coils shall be designed to operate at 300 psig internal pressure and up to 250°F

Shipping:

- Units to ship with components wrapped and placed in crates and/or on pallets
- Detailed bills of material for each pallet and crate
- All parts identified with bar codes and part numbers
- Items shall not be stored outdoors after delivery

Field Services:

- See pricing alternates for field service options

Clarifications:

- Specification section/sections was/were not provided for review. Any requirements listed in this/these sections that are not specifically covered in this document are not included
- Mounting beams and base reinforcement not included

General Notes:

1. This quotation excludes factory unit assembly, air handler casing, fan safing / airseal / blank-offs, factory testing, electrical wiring and conduit, mounting beams, base reinforcement, temperature controls, motor starters, piping, VFD, VFD start-up, mounting of control or piping devices provided "By Others", field testing, factory start-up and factory training.
2. One (1) year parts only warranty provided. Warranty terms are 12-months from date of initial startup or 18-months from date of shipment, whichever expires first. See price add for extending the parts warranty.
3. Submittal is typically available within 10 business days from receipt of written purchase order. Large and complex orders may require additional time.
4. Shipment to be determined by published lead times after receipt of approved submittal. Current lead time 5-7 weeks after approval.

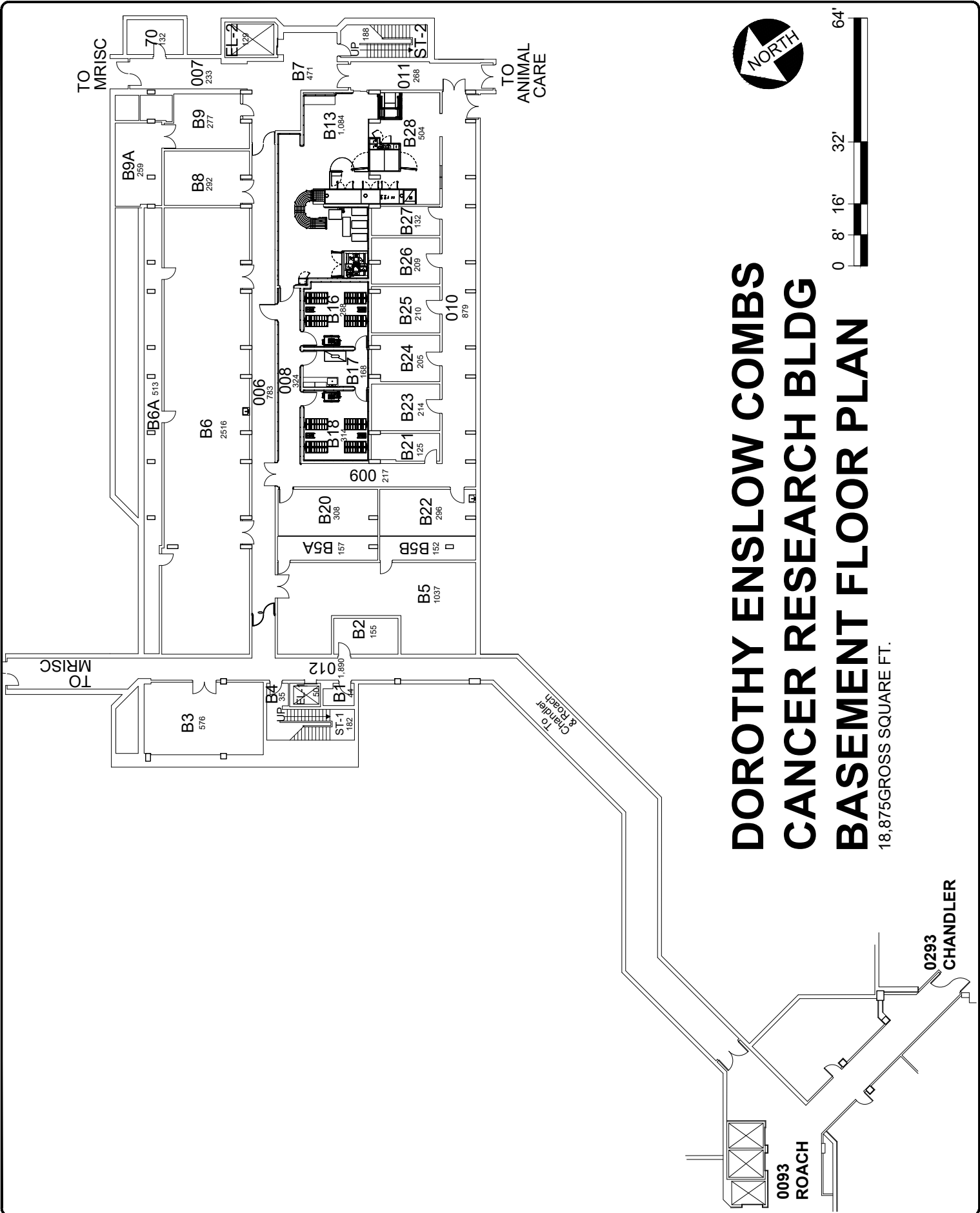


COMBS CANCER RESEARCH BLDG

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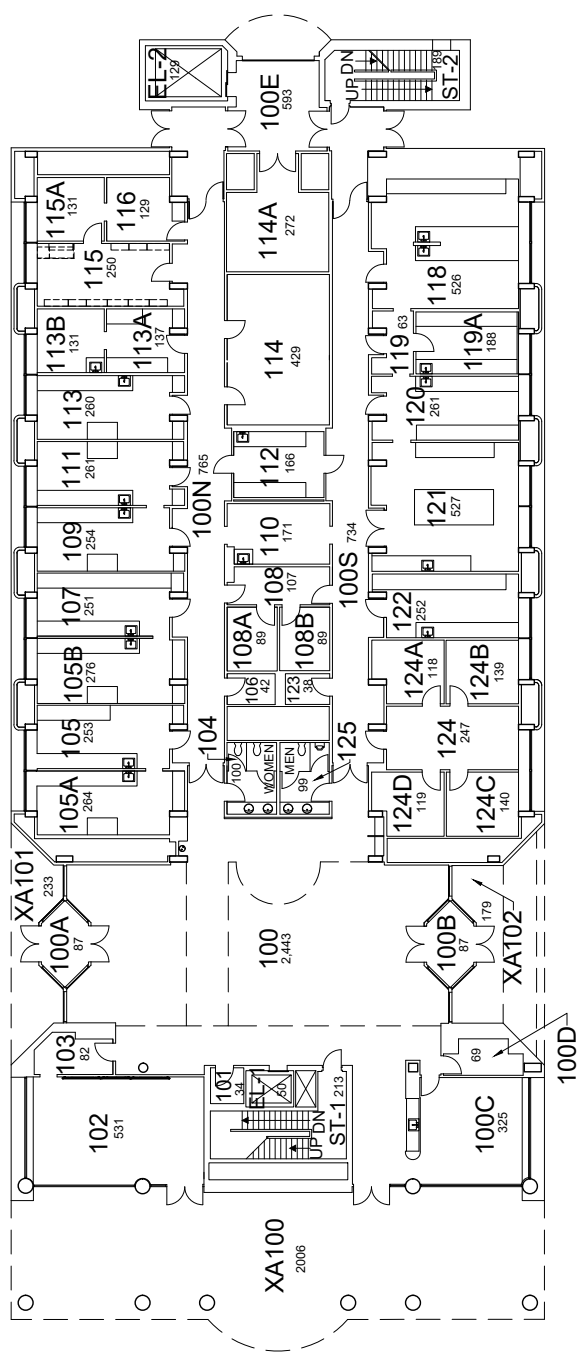
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07-25-12
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SK



**DOROTHY ENSLOW COMBS
CANCER RESEARCH BLDG
BASEMENT FLOOR PLAN**
18,875 GROSS SQUARE FT.

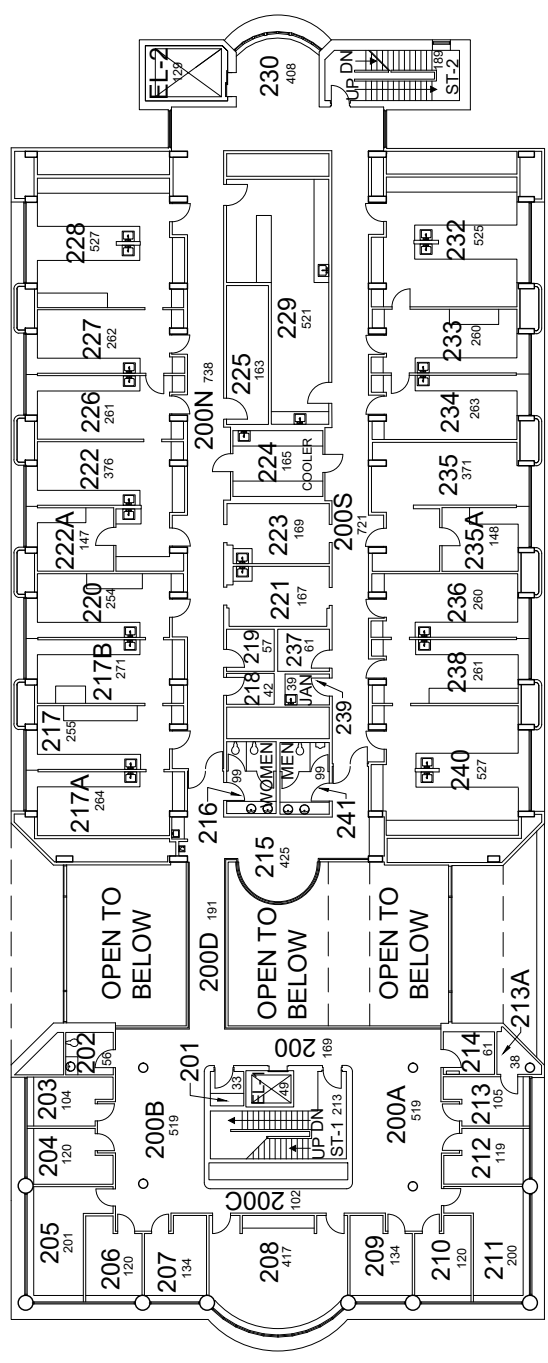
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CHANDLER

0093
ROACH



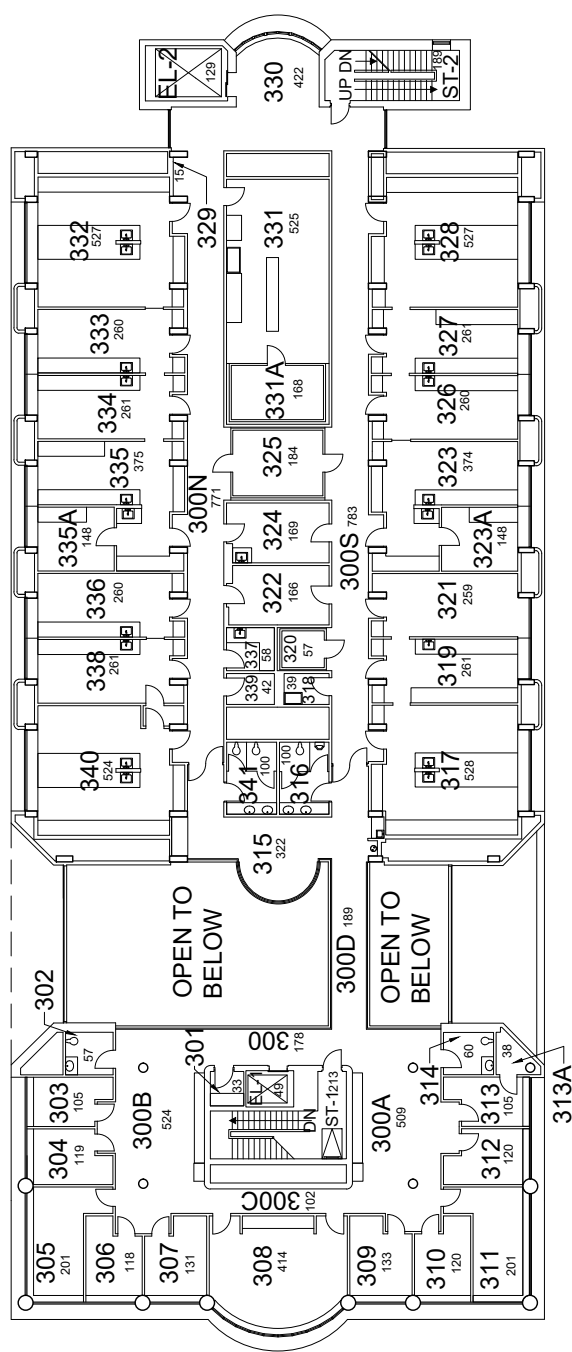
DOROTHY ENSLOW COMBS CANCER RESEARCH BLDG FIRST FLOOR PLAN

18,138 Gross Square Ft.



DOROTHY ENSLOW COMBS CANCER RESEARCH BLDG SECOND FLOOR PLAN

16,188 Gross Square Ft.



DOROTHY ENSLOW COMBS CANCER RESEARCH BLDG THIRD FLOOR PLAN

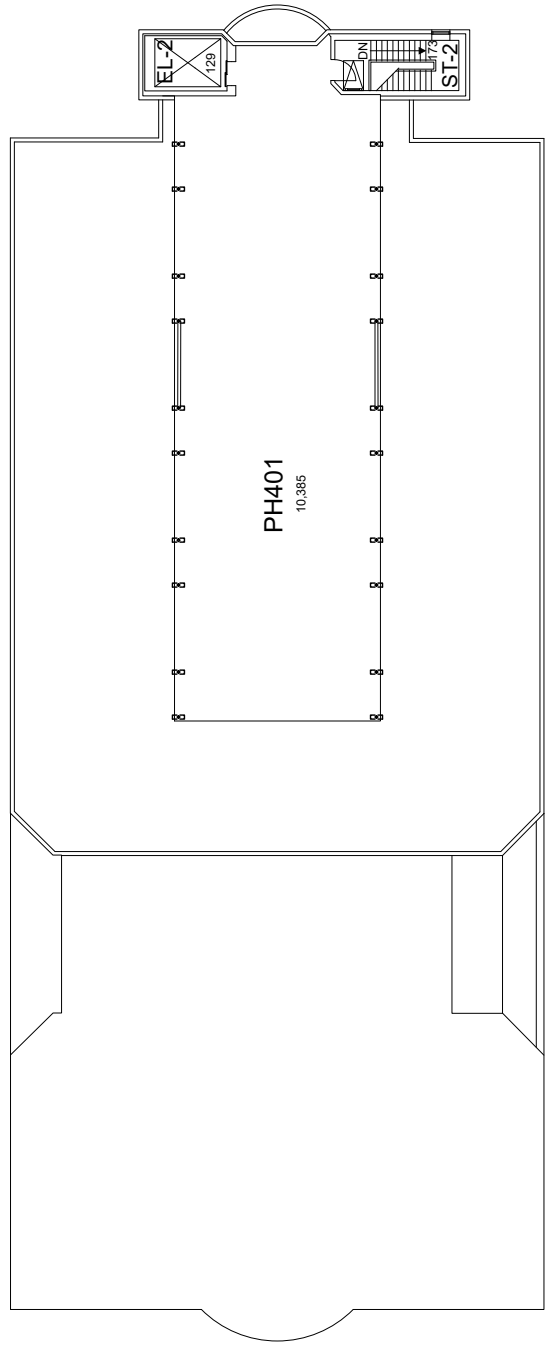
16,188 Gross Square Ft.

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07-25-12
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COMBS CANCER RESEARCH BLDG
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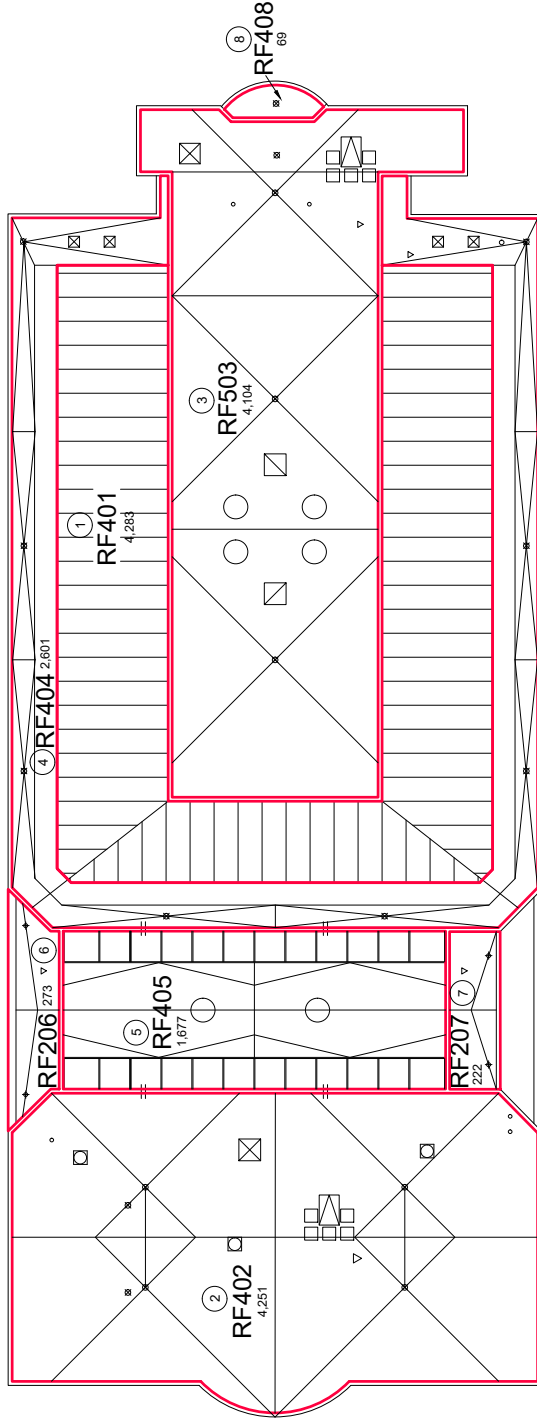
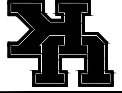
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5 OF 6



DOROTHY ENSLOW COMBS CANCER RESEARCH BLDG PENTHOUSE FLOOR PLAN

11,468 Gross Square Ft



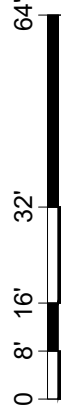
LEGEND

- ① SECTION NUMBER
- △ INSULATION VENT
- ⊥ DOWNSPOUT
- ⊥ LADDER
- ⊙ EXHAUST FAN
- ⊙ PLUMBING VENT
- ↘ FLOW ARROW
- ⊠ ROOF DRAIN

ROOF DATA

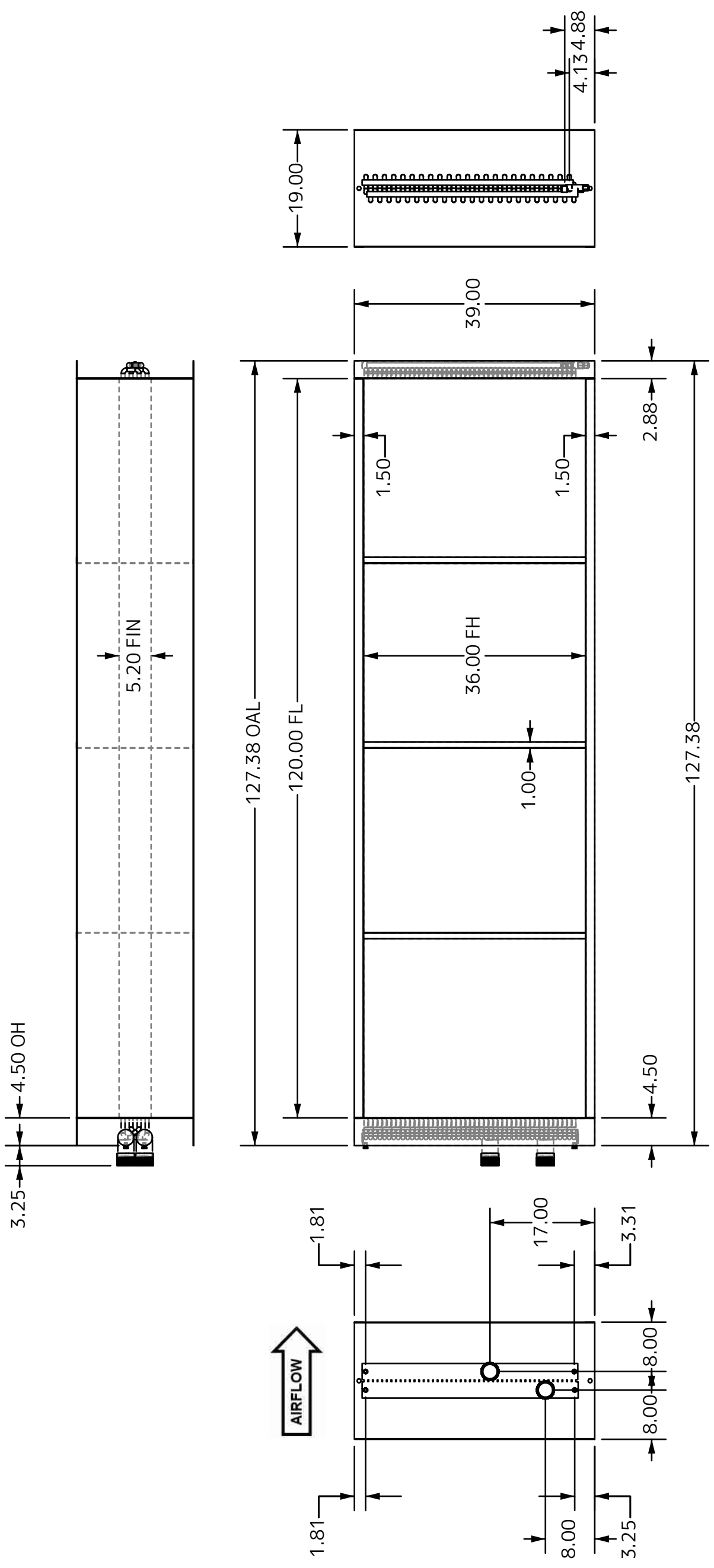
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2	RF402	Slope Main Roof	METAL (SLOPED)	4,251
3	RF503	High Peritubhouse Roof		4,104
4	RF404	Outer Roof	EPDM	2,601
5	RF405	Center Roof		1,677
6	RF206	North Low Roof		273
7	RF207	South Low Roof		222
8	RF408	Small Curved Roof		69

Data source: CPPD Data



DOROTHY ENSLOW COMBS CANCER RESEARCH BLDG ROOF FLOOR PLAN

DIE NUMBER	1
FACE TUBES	24
# CIRCUITS	46
PASS / CIRCUIT	2
TUBE MATERIAL	
0.625 x 0.035	
Copper SMOOTH	
FIN MATERIAL	
10 FINS PER INCH	
0.0095 Aluminum	
Corr	
CASING MATERIAL	
14 GAUGE	
304 S.S.	
HEADER MATERIAL	
TYPE L Copper	
HEADER SIZES	
SUPPLY: 2.5" NOM	
RETURN: 2.5" NOM	
CONNECTIONS	
SUPPLY: 2.5" NOM	
TYPE L Copper	
RETURN: 2.5" NOM	
TYPE L Copper	
DRY WEIGHT	
690 Lbs./Coil	
INTERNAL VOLUME	
2.03 GAL PER COIL	
TEST PRESSURE	
200 PSIG	
CASING STYLE	
STANDARD	
COIL QTY	3
FEATURES:	
Lifting Holes	
MPT Conn. Red Brass (2)	
Vent and Drain (4)	



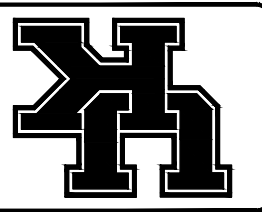
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DATE	CUST. P/N	DATE	CUSTOMER
03/10/2023	DENTAL AHU-13		
COIL I.D.		REV	
V10008396		R0	
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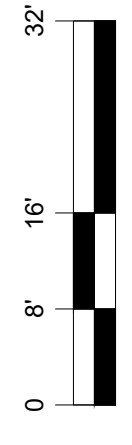
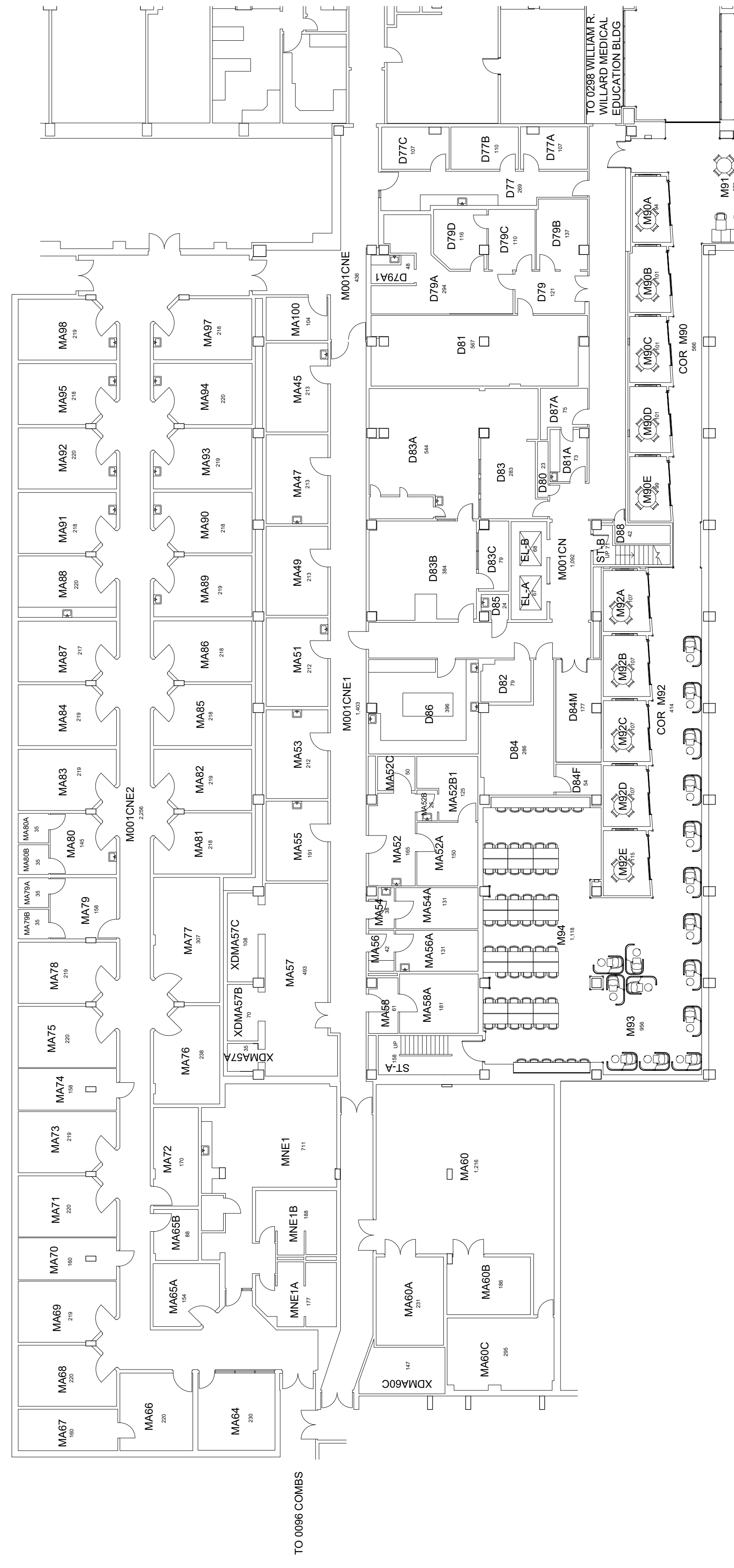
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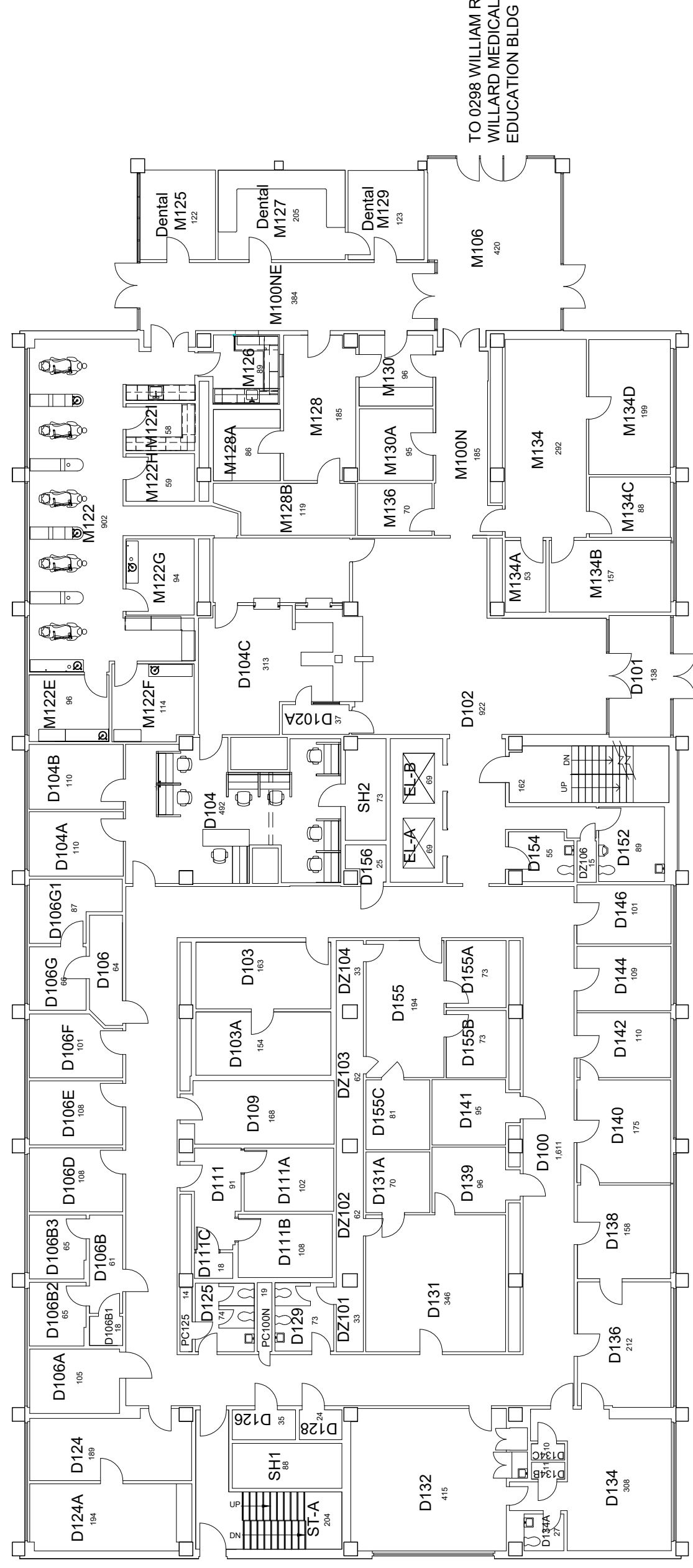
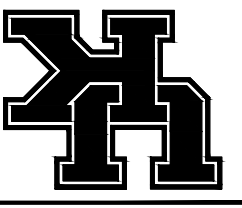
SHEET
1 of 9

Floor plan is from best available information. Drawing will be updated as more information becomes available.



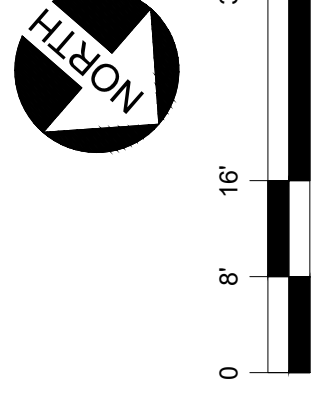
FOR ENTIRE MEDICAL CENTER LIBRARY IN
0297 & 0298
SEE BUILDING NUMBER 0298 GROUND
LEVEL PLAN

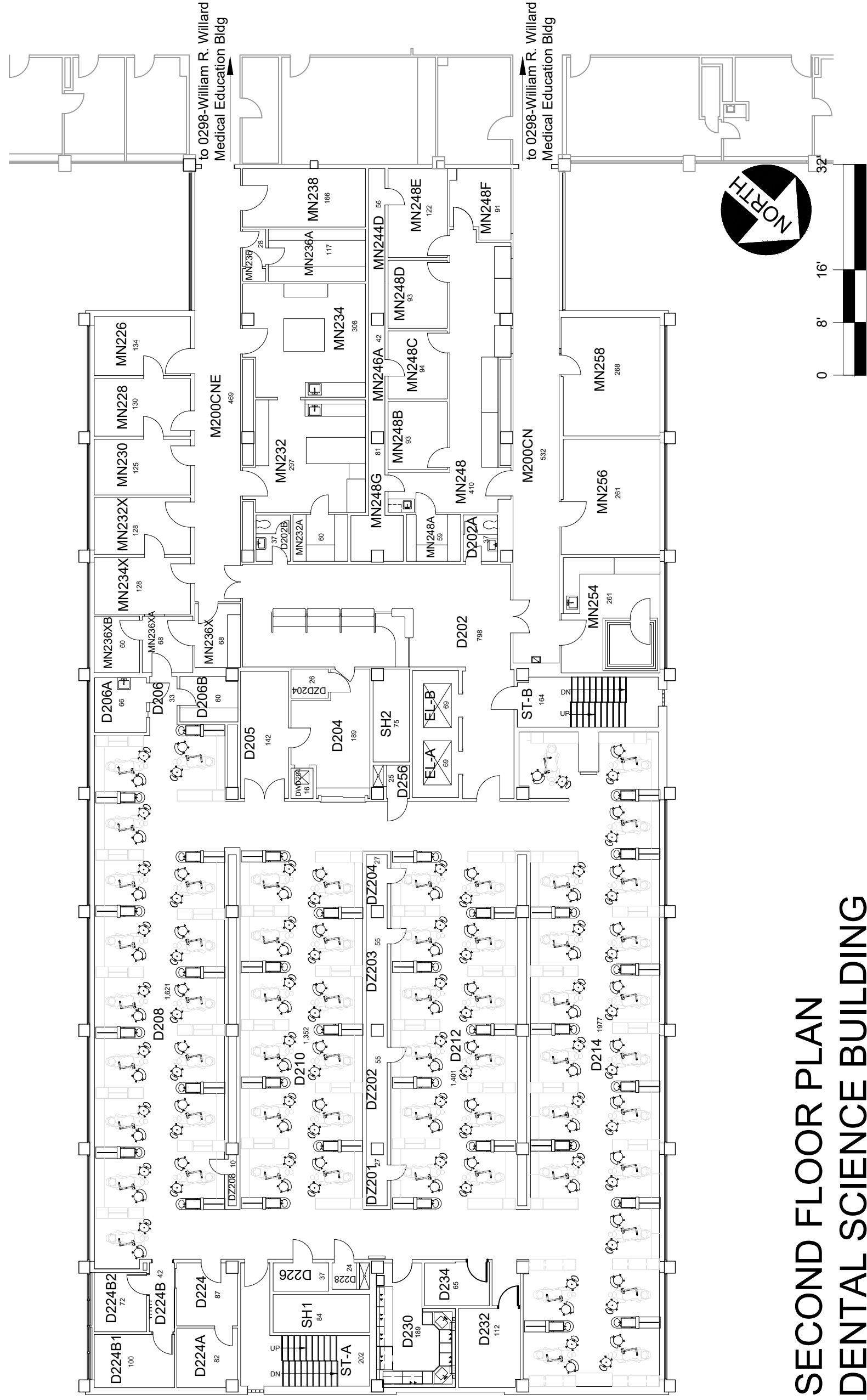
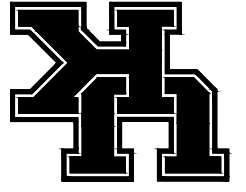
BASEMENT FLOOR PLAN DENTAL SCIENCE BUILDING 31,362 Gross Square Ft.



FIRST FLOOR PLAN DENTAL SCIENCE BUILDING

15,825 Gross Square Ft.





SECOND FLOOR PLAN
DENTAL SCIENCE BUILDING

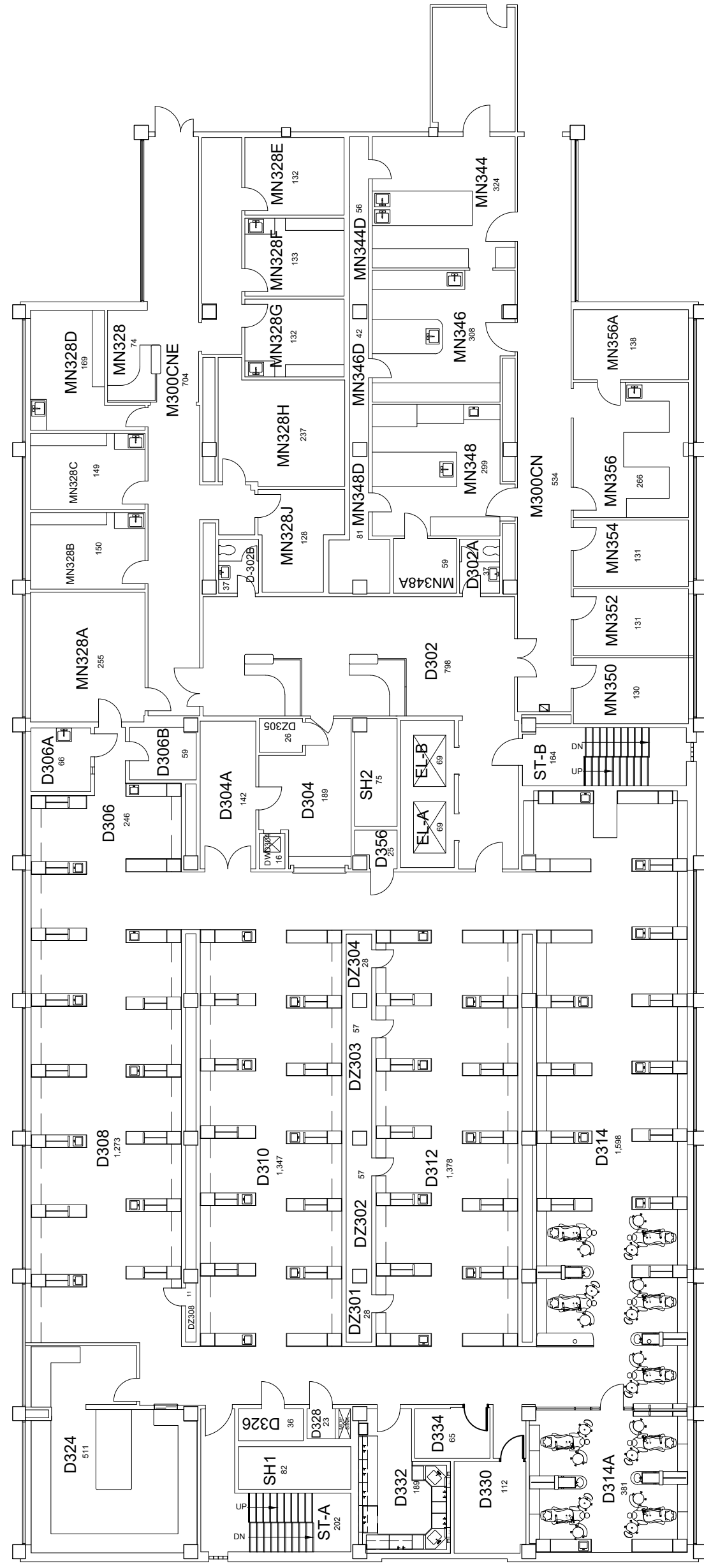
15,814 Gross Square Ft.



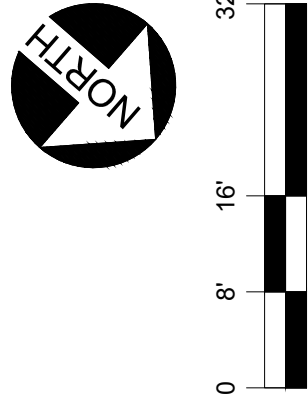
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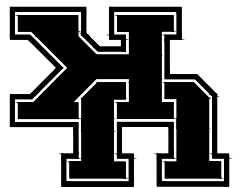
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THIRD FLOOR PLAN
DENTAL SCIENCE BUILDING
15,815 Gross Square Ft.

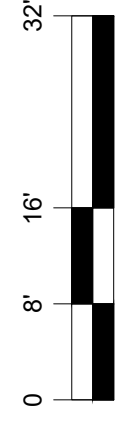
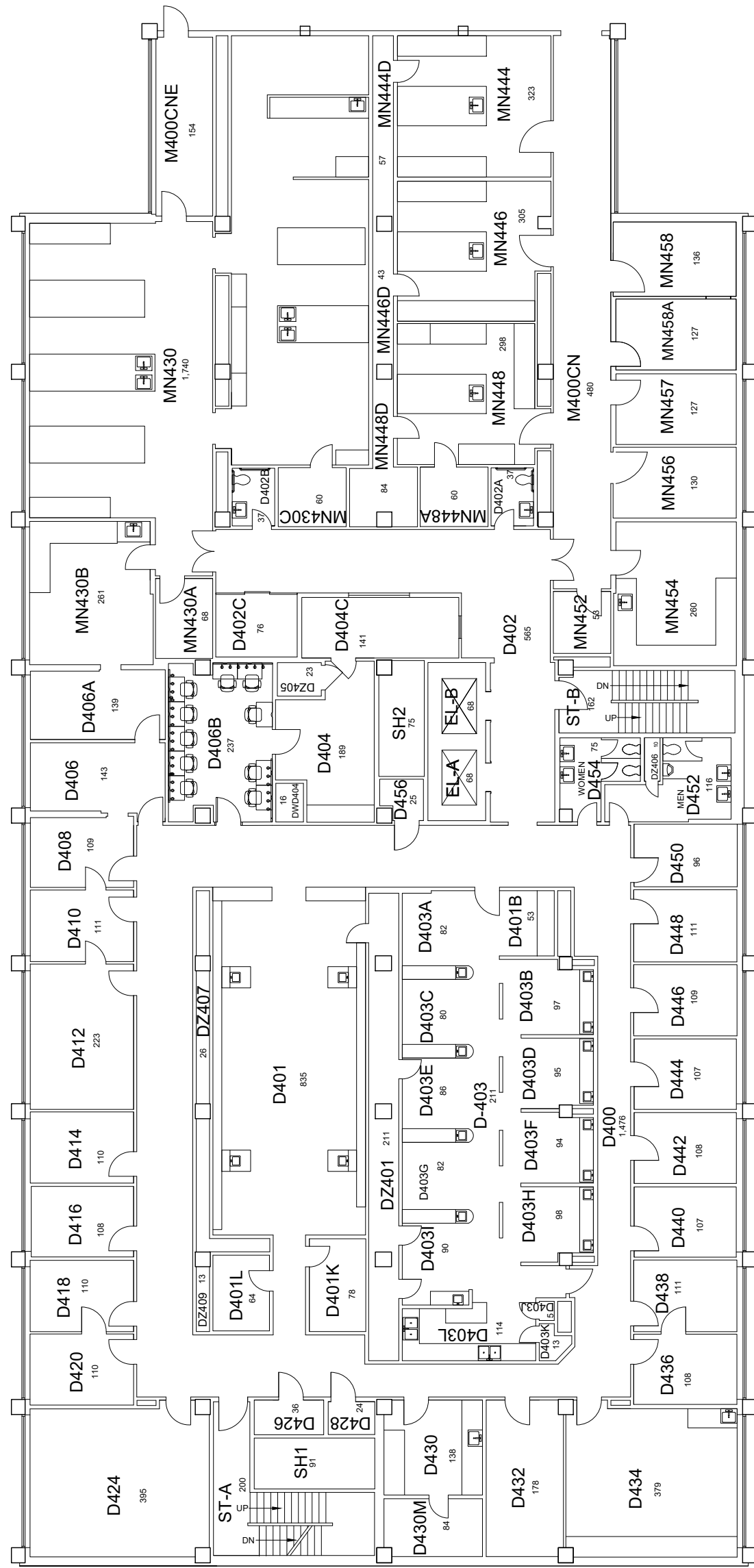




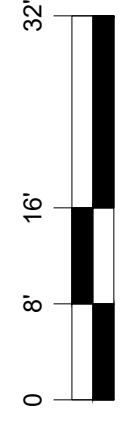
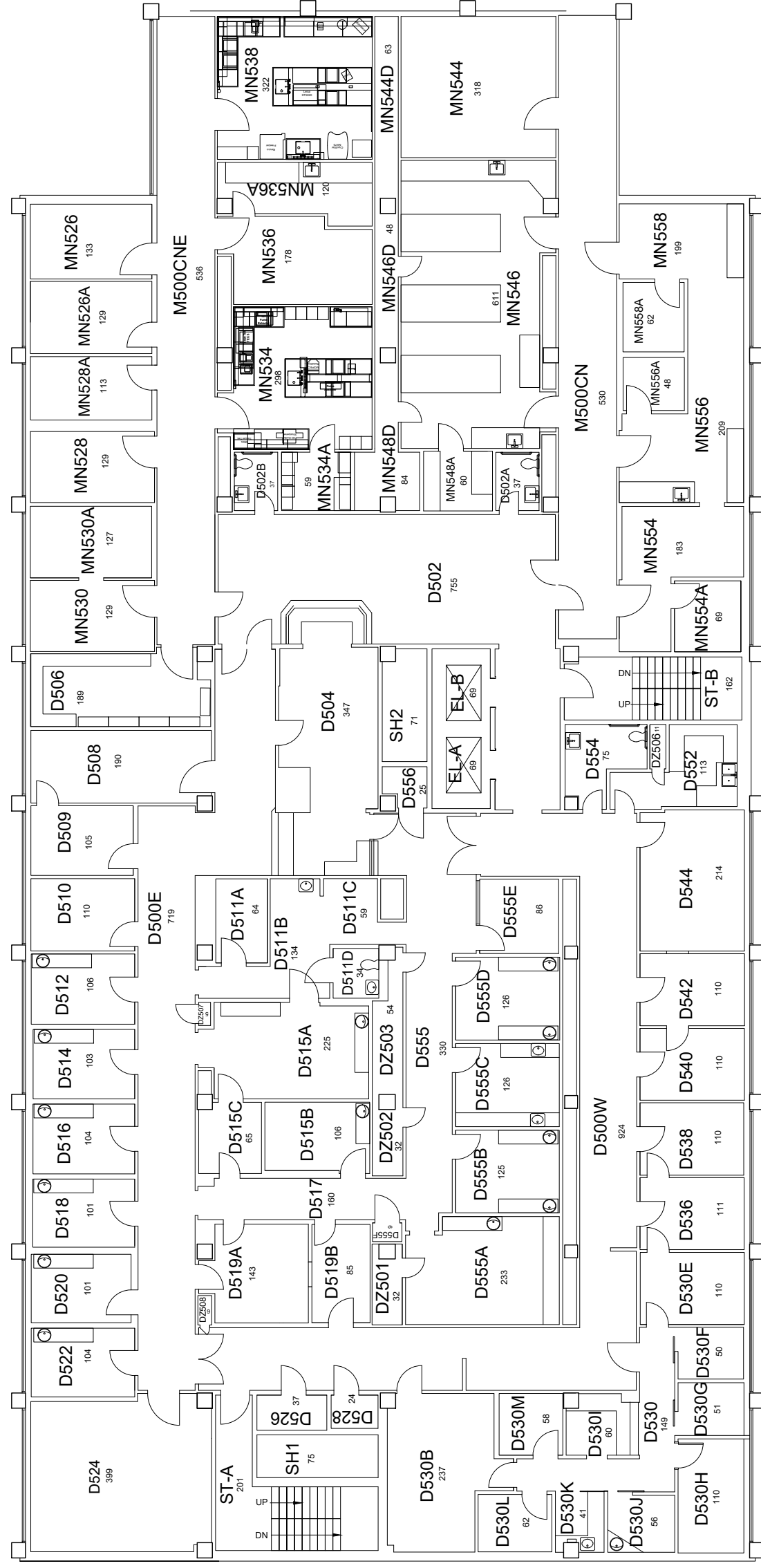
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FOURTH FLOOR PLAN
DENTAL SCIENCE BUILDING
15,822 Gross Square Ft.



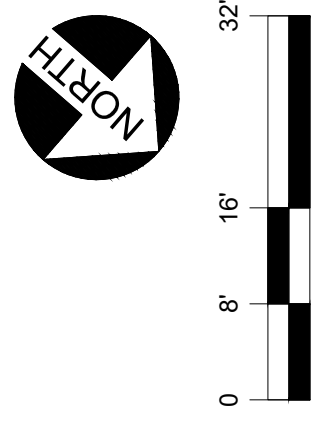
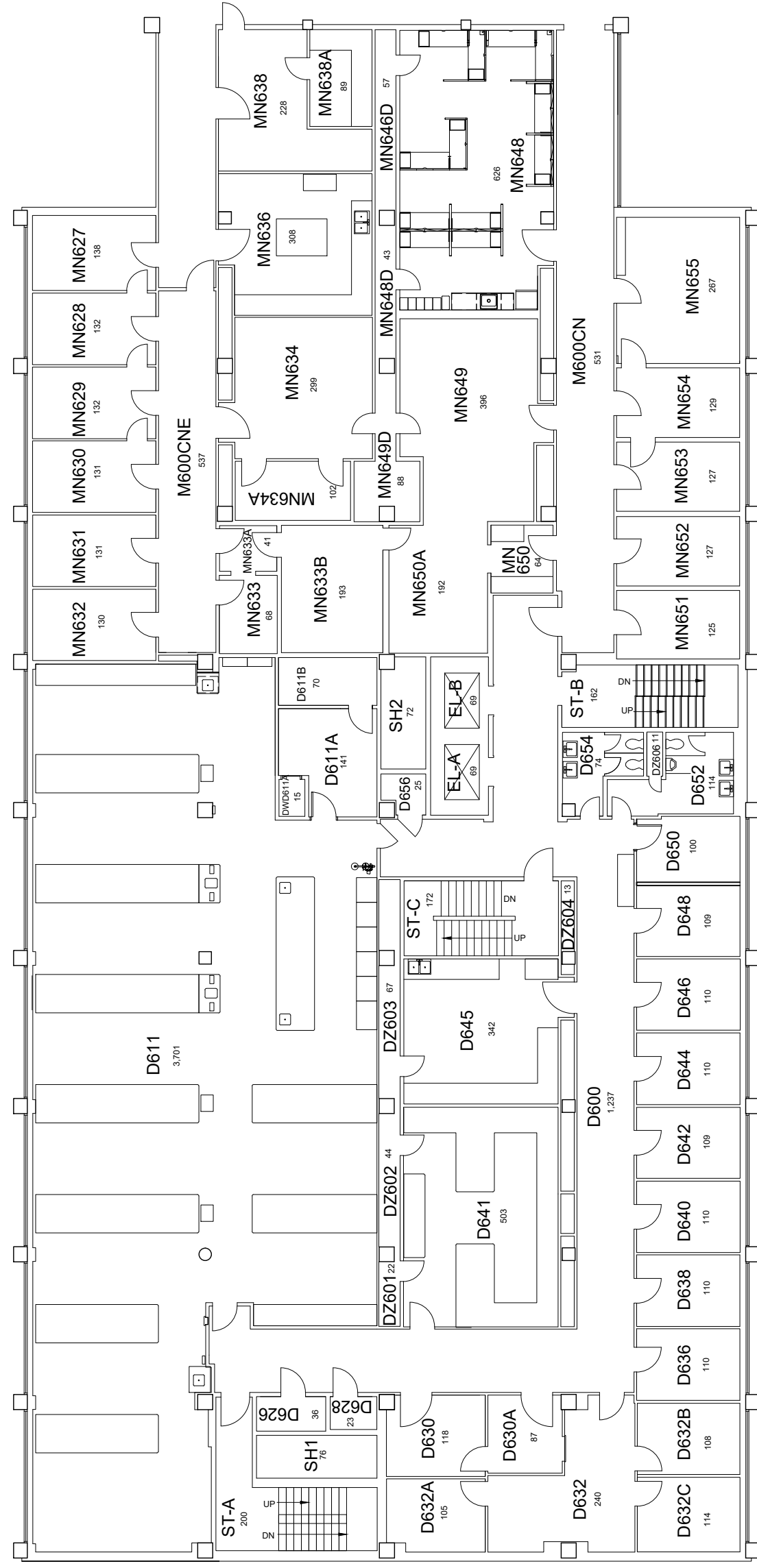
FIFTH FLOOR PLAN
DENTAL SCIENCE BUILDING
15,814 Gross Square Ft.



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SIXTH FLOOR PLAN
DENTAL SCIENCE BUILDING
15,809 Gross Square Ft.

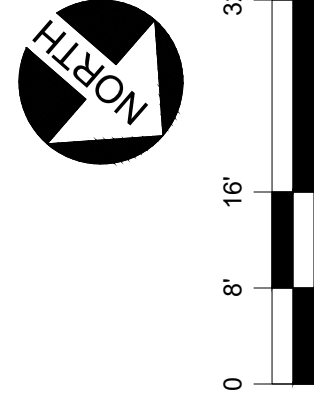
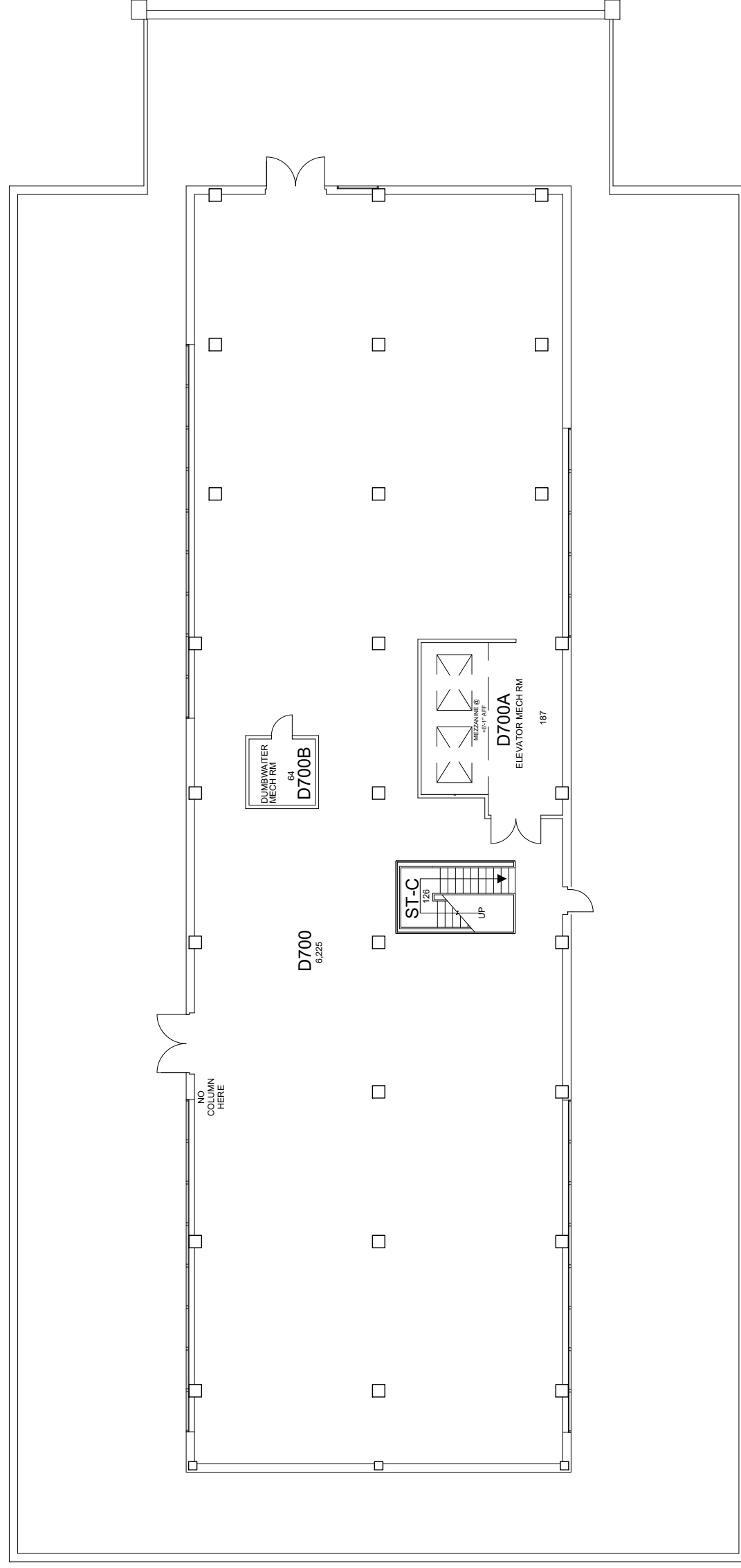


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09-23-12
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SEVENTH FLOOR PLAN
DENTAL SCIENCE BUILDING
7,179 Gross Square Ft.

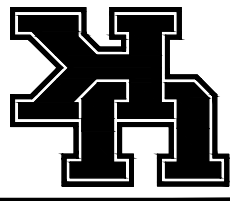
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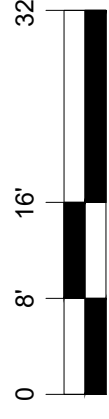
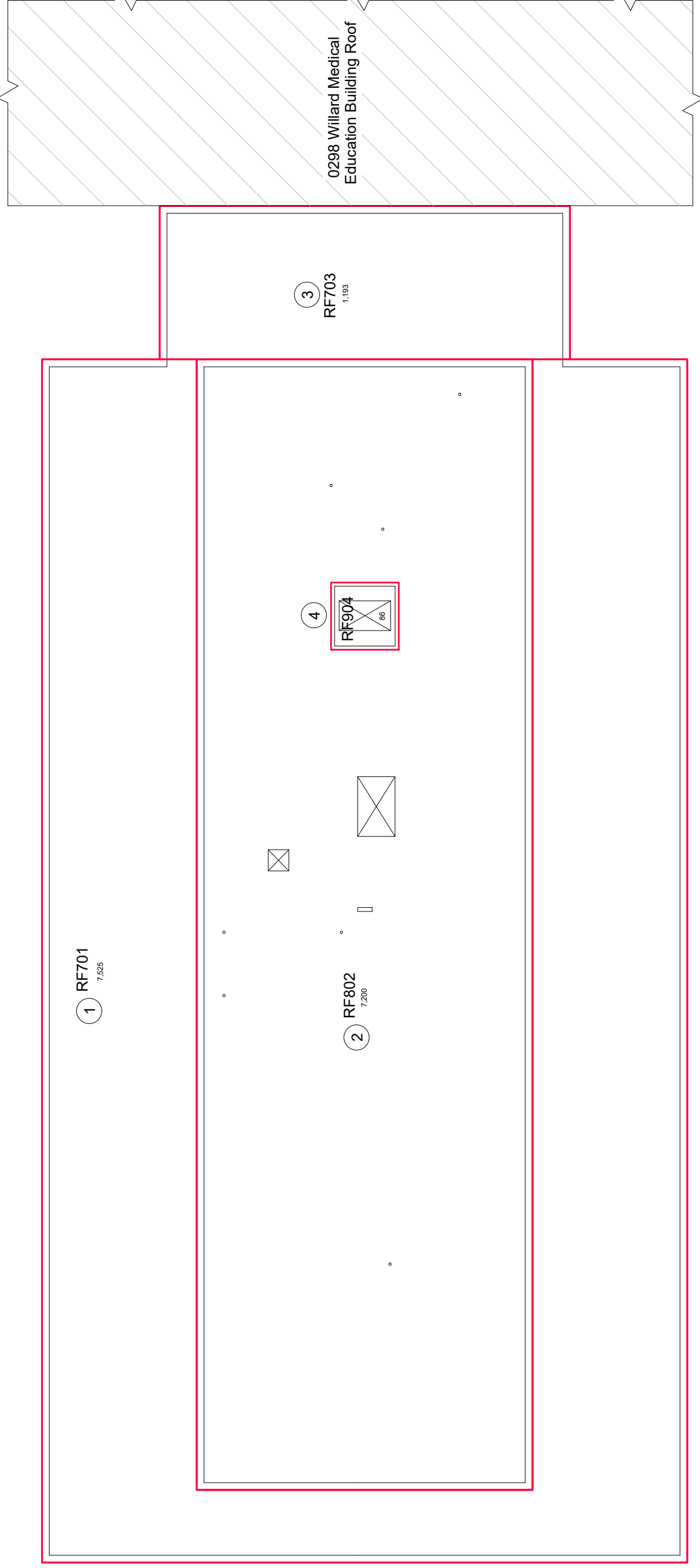


SHEET
9 of 9

ROOF DATA

Section	Roof Label	Location	Roof Type	Sq. Ft.
1	RF701	Outer Roof		7,525
2	RF802	Main Roof		7,200
3	RF703	South Roof		1,193
4	RF904	Mechanical Roof		86

- ### LEGEND
- PLUMBING VENT
 - ⊗ ROOF DRAIN
 - # SECTION NUMBER



ROOF PLAN
DENTAL SCIENCE BUILDING