

P:\2010\435 - VAMC VA Medical Center\Drawings\AMC Bolerint  
12/15/2011 5:54:26 AM

<div>Revisions:</div> <div>Date</div>		<div>CONSULTANTS:</div> <div>MKK Consulting Engineers, Inc. 7600 East Orchard Road Suite 250S Greenwood Village, CO 80111 Phone: 303.796.6000 Fax: 303.796.6099</div> <div>Calibre 9090 S Ridgeline Blvd. Suite 105 Highlands Ranch, CO 80129 Phone: 303.730.0434 Fax: 303.730.1130</div> <div>Structural Consultants Inc. 3400 E Bayaud Ave # 300 Denver, CO 80209-2929 Phone: 303.399.5154 Fax: 303.333.9501</div>		<div>ARCHITECT/ENGINEERS:</div> <div>GREENFIELD ARCHITECTS 3650 S YOSEMITE ST, STE 402 DENVER, CO 80237 PHONE: 303-770-1020 FAX: 303-770-0922</div> <div>GA Project Number 10-435</div>	<div>Drawing Title</div> <div>DESIGN DETAILS</div> <div>Approved: Project Director JASON BROWN</div>	<div>Project Title</div> <div>-BOILER PLANT -REPLACEMENT -</div> <div>Location</div> <div>- SHERIDAN, WY</div> <div>Date</div> <div>12/15/2011 BIDDING &amp; CNSTN</div> <div>Checked</div> <div>JG</div> <div>Drawn</div> <div>WS</div>	<div>Project Number</div> <div>- 666-11-101</div> <div>Building Number</div> <div>- 90</div> <div>Drawing Number</div> <div>AS-492</div> <div>Dwg. of --</div>	<div>Office of Construction and Facilities Management</div> <div>Department of Veterans Affairs</div>
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WINDOW SCHEDULE						
Type Mark	Count	Type	Sill Height	Width	Height	Comments
63	1	3-8 x 6-8	2'- 11 1/2"	3'- 8"	6'- 10 1/2"	
63	1	3-8 x 6-8	2'- 11 1/2"	3'- 8"	6'- 10 1/2"	
63	1	3-8 x 6-8	2'- 11 1/2"	3'- 8"	6'- 10 1/2"	
63	1	3-8 x 6-8	2'- 11 1/2"	3'- 8"	6'- 10 1/2"	
63	1	3-8 x 6-8	3'- 6"	3'- 8"	6'- 10 1/2"	
63	1	3-8 x 6-8	3'- 6"	3'- 8"	6'- 10 1/2"	
66	1	3-8 x 5-4	2'- 11 1/2"	3'- 8"	5'- 6"	
66	1	3-8 x 5-4	2'- 9"	3'- 8"	5'- 6"	
66	1	3-8 x 5-4	2'- 11 1/2"	3'- 8"	5'- 6"	
66	1	3-8 x 5-4	2'- 11 1/2"	3'- 8"	5'- 6"	
65	1	36" x 60"	2'- 0 1/2"	7'- 4"	5'- 6"	
64	1	36" x 60"	-4'- 10"	3'- 8"	6'- 10 1/2"	
64	1	36" x 60"	-4'- 10"	3'- 8"	6'- 10 1/2"	
64	1	36" x 60"	-4'- 10"	3'- 8"	6'- 10 1/2"	
67	1	36" x 60"	6'- 3"	3'- 8"	4'- 1"	
67	1	36" x 60"	6'- 3"	3'- 8"	4'- 1"	
70	1	36" x 60"	9'- 7"	3'- 8"	1'- 5"	
62	1	36" x 60"	4'- 0"	7'- 4"	20'- 2"	
62	1	36" x 60"	4'- 0"	7'- 4"	20'- 2"	
62	1	36" x 60"	4'- 0"	7'- 4"	20'- 2"	
62	1	36" x 60"	4'- 0"	7'- 4"	20'- 2"	
62	1	36" x 60"	4'- 0"	7'- 4"	20'- 2"	
83	1	36" x 60"	2'- 11 1/2"	1'- 10"	5'- 11 1/2"	
17	1	36" x 60"	7'- 3"	3'- 6"	3'- 5"	

NOTES: ALL WINDOWS ARE EXISTING TO REMAIN AND THE WINDOW SCHEDULE IS SHOWN FOR REFERENCE ONLY. ALL FACADE FENESTRATION SHALL BE UPGRADED TO BE DESIGNED TO CRACK BUT FRAGMENTST SHALL ENTER THE OCCUPIED SPACE AND LAND ON THE FLOOR NO FURTHER THAN 10 FEET FROM THE FACADE IN RESPONSE TO THE CALCULATED PEAK PRESSURES AND IMPULSES RESULTING FROM THE DESIGN LEVEL VEHICLE THREAT (W2) LOCATED AT THE STAND-OFF DISTANCE, BUT NO GREATER THAN GP2. A MECHANICALLY ANCHORED OR WET GLAZED ANTI-SHATTER FILM MAY BE USED TO SATISFY THE REQUIREMENTS. THE CHOICE OF FILM AND THE PERFORMANCE OF THE UPGRADED SYSTEM SHALL BE DEMONSTRATED USING U.S. GOVERNMENT DEVELOPED GLASS FRAGMENT HAZARD SOFTWARE. THE MEANS OF ATTACHMENT SHALL BE BASED ON THE SITE SPECIFIC FEATURES OF THE GLASS FACADE.

DOOR SCHEDULE																
Door Number	Type	Door						Fire Rating	Hardware	Frame					Remarks	Level
		Width	Height	Thickness	Material	Finish	Under Cut			Type	Material	Finish	Jamb	Head		
101.2	D7	3'- 0"	6'- 8"	0'- 1 3/4"				1.5 HOUR B LABEL	08						5 3/4" FRAME DEPTH **	BOILER ROOM
104.1	D1	3'- 0"	6'- 11"	0'- 1 3/4"					01						5 3/4" FRAME DEPTH **	BOILER ROOM
201.1	D1	2'- 4"	7'- 0"	0'- 1 3/4"					09						5 3/4" FRAME DEPTH **	(E1984) 58.5 MEZZ
100.5	D3	3'- 6"	6'- 8"	0'- 1 3/4"					02						5 3/4" FRAME DEPTH **	BOILER ROOM
100.6	D2	3'- 0"	7'- 0"	0'- 1 3/4"					03						6 3/4" FRAME DEPTH **	BOILER ROOM
102.1	D1	3'- 0"	6'- 11"	0'- 1 3/4"					01	F1					5 3/4" FRAME DEPTH **	BOILER ROOM
101.1	D1	3'- 0"	6'- 11"	0'- 1 3/4"					01						5 3/4" FRAME DEPTH **	BOILER ROOM
100.1	D5	13'- 1"	14'- 6"	0'- 2"					07							BOILER ROOM
100.2	D4	3'- 6"	6'- 8"	0'- 1 3/4"					04	F2						BOILER ROOM
100.3	D2	3'- 0"	7'- 0"	0'- 1 3/4"					05	F3						BOILER ROOM
100.4	D2	3'- 0"	7'- 0"	0'- 1 3/4"					05	F3						BOILER ROOM
105.1	D6	3'- 0"	6'- 8"	0'- 1 3/4"					06						5 3/4" FRAME DEPTH **	(E1984) 44 PUMP ROOM

DOOR FRAME TYPES:

F1 NEW TRANSOM FRAME 112" OA, WITH 1 3/4" FLUSH STEEL TRANSOM PANEL  
F2 EXISTING STEEL DOOR TRANSOM-SIDELITE FRAME IS PART OF A STEEL CASE WORK UNIT. REPAINT EXISTING UNIT. FRAME IS IN GOOD CONDITION.  
F3 EXISTING CHANNEL IRON FRAME\* PART OF STRUCTURAL OPENING

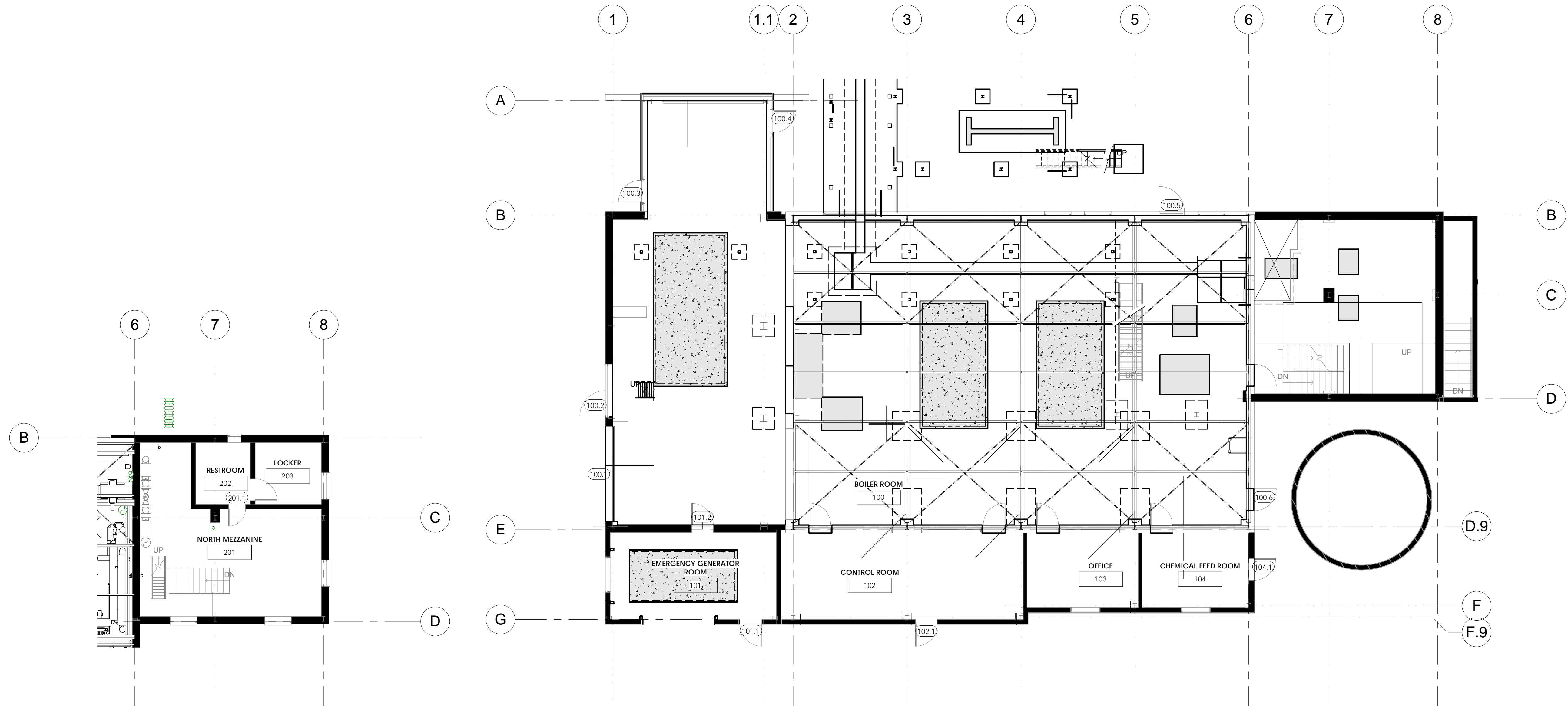
SEE PROJECT MANUAL FOR DOOR HARDWARE

\* EXISTING CHANNEL IRON FRAME REMOVE OLD W/S PAINT FRAME AND NEW DOOR  
\*\* PUNCH, DIMPLE, AND REINFORCE NEW HM FRAMES FOR EO ANCHOR, CONCEAL PREPS AFTER INSTALLATION. PROVIDE 3/8" X 6" MASONRY LAG BOLTS 4 PER JAMB LEG.

DOOR TYPE D1 PROVIDE FLUSH FACE DOORS  
DOOR TYPE D2, D3, D4, & D6 PROVIDE N630 NARROW LITE & 1/4" SAFETY-LAM CLEAR GLASS  
DOOR 101.2 TYPE D2 PROVIDE 4 x 25 EXPOSED NARROW LITE & 1/4" SAFETY-LAM WIRE GLASS UL APPROVED FIRE & IMPACT PER IBC-2009.

STAIR SCHEDULE BASE BID											
MARK	RISERS	RISER HEIGHTS	TREAD THICKNESS	MINIMUM TREAD DEPTH	NOSING LENGTH	WIDTH	RISE	RUN	DESCRIPTION	COMMENTS	
	11	0'- 8"	0'- 0"	0'- 10"		3'- 2"	7'- 4"			EXISTING	
	10	0'- 7 3/4"	0'- 0"	0'- 10"		3'- 6"	6'- 6"			EXISTING	
	15	1'- 0 1/8"	0'- 1"	0'- 3"		1'- 8"	15'- 1 1/2"		SHIPS LADDER	EXISTING	
	12	0'- 8 3/8"	0'- 0"	0'- 11"		4'- 0"	8'- 5"			EXISTING	
	9	0'- 8 3/8"	0'- 0"	0'- 11"		3'- 6"	6'- 3 3/4"			EXISTING	
	2	0'- 8"	0'- 1"	0'- 9 1/2"		2'- 6"	1'- 4"				
	18	0'- 8"	0'- 1"	0'- 9 1/2"		3'- 6"	12'- 0"			EXISTING	
1	12	1'- 0"	0'- 1"	0'- 4"	0'- 1"	2'- 0"	12'- 0"	2'- 9"	SHIPS LADDER		
2	9	0'- 6 1/8"	0'- 1"	0'- 9 1/2"	0'- 1"	2'- 0"	4'- 7 1/2"	5'- 8"			
3	3	0'- 6 1/4"	0'- 1"	0'- 9 1/2"	0'- 1"	2'- 0"	1'- 6 3/4"	1'- 5"			
4	5	0'- 8"	0'- 1"	0'- 4"	0'- 1"	2'- 6"	3'- 4"	1'- 0"	SHIPS LADDER		
5	16	0'- 6 3/4"	0'- 1"	0'- 9 1/2"	0'- 1"	2'- 0"	9'- 0"	10'- 7 1/2"			
6	16	0'- 6 3/4"	0'- 1"	0'- 9 1/2"	0'- 1"	2'- 0"	9'- 0"	10'- 7 1/2"			
7	15	0'- 7 3/4"	0'- 1"	0'- 9 1/2"	0'- 1"	3'- 6"	9'- 7 1/2"	9'- 11"			
8	4	0'- 6"	0'- 1"	0'- 4"	0'- 1"	3'- 6"	2'- 0"	0'- 9"	SHIPS LADDER		
9	4	0'- 6"	0'- 1"	0'- 4"	0'- 1"	3'- 6"	2'- 0"	0'- 9"	SHIPS LADDER		
10	5	0'- 8"	0'- 1"	0'- 4"	0'- 1"	2'- 6"	3'- 4"	1'- 0"	SHIPS LADDER		
11	5	0'- 8"	0'- 1"	0'- 4"	0'- 1"	2'- 6"	3'- 4"	1'- 0"	SHIPS LADDER		
12	5	0'- 8"	0'- 1"	0'- 4"	0'- 1"	2'- 6"	3'- 4"	1'- 0"	SHIPS LADDER		
13	5	0'- 8"	0'- 1"	0'- 4"	0'- 1"	2'- 6"	3'- 4"	1'- 0"	SHIPS LADDER		
14	4	0'- 6 3/4"	0'- 1"	0'- 9 1/2"	0'- 1"	1'- 8"	2'- 3"	2'- 1 1/2"			
15	4	0'- 6 3/4"	0'- 1"	0'- 9 1/2"	0'- 1"	1'- 8"	2'- 3"	2'- 1 1/2"			
16	8	0'- 9 1/2"	0'- 1"	0'- 4"	0'- 1"	2'- 0"	6'- 4"	1'- 9"	SHIPS LADDER		
17	4	0'- 6"	0'- 1"	0'- 4"	0'- 1"	3'- 6"	2'- 0"	0'- 9"	SHIPS LADDER		
18	4	0'- 6"	0'- 1"	0'- 4"	0'- 1"	3'- 6"	2'- 0"	0'- 9"	SHIPS LADDER		
19	4	0'- 6"	0'- 1"	0'- 4"	0'- 1"	3'- 6"	2'- 0"	0'- 9"	SHIPS LADDER		
20	9	0'- 11 1/8"	0'- 1"	0'- 9 1/2"	0'- 1"	2'- 6"	8'- 4"	5'- 8"			

STAIR SCHEDULE DEDUCT ALTERNATE											
MARK	RISERS	RISER HEIGHTS	TREAD THICKNESS	MINIMUM TREAD DEPTH	NOSING LENGTH	WIDTH	RISE	RUN	DESCRIPTION	COMMENTS	
	11	0'- 8"	0'- 0"	0'- 10"		3'- 2"	7'- 4"			EXISTING	
	10	0'- 7 3/4"	0'- 0"	0'- 10"		3'- 6"	6'- 6"			EXISTING	
	15	1'- 0 1/8"	0'- 1"	0'- 3"		1'- 8"	15'- 1 1/2"		SHIPS LADDER	EXISTING	
	12	0'- 8 3/8"	0'- 0"	0'- 11"		4'- 0"	8'- 5"			EXISTING	
	9	0'- 8 3/8"	0'- 0"	0'- 11"		3'- 6"	6'- 3 3/4"			EXISTING	
	5	1'- 0"	0'- 1"	0'- 4"		2'- 0"	5'- 0"		SHIPS LADDER	EXISTING	
	18	0'- 8"	0'- 1"	0'- 9 1/2"		3'- 6"	12'- 0"			EXISTING	
1	12	1'- 0"	0'- 1"	0'- 4"	0'- 1"	2'- 0"	12'- 0"	2'- 9"	SHIPS LADDER		
4	5	0'- 8"	0'- 1"	0'- 4"	0'- 1"	2'- 6"	3'- 4"	1'- 0"	SHIPS LADDER		
5	16	0'- 6 3/4"	0'- 1"	0'- 9 1/2"	0'- 1"	2'- 0"	9'- 0"	10'- 7 1/2"			
6	16	0'- 6 3/4"	0'- 1"	0'- 9 1/2"	0'- 1"	2'- 0"	9'- 0"	10'- 7 1/2"			
10	5	0'- 8"	0'- 1"	0'- 4"	0'- 1"	2'- 6"	3'- 4"	1'- 0"	SHIPS LADDER		
11	5	0'- 8"	0'- 1"	0'- 4"	0'- 1"	2'- 6"	3'- 4"	1'- 0"	SHIPS LADDER		
12	5	0'- 8"	0'- 1"	0'- 4"	0'- 1"	2'- 6"	3'- 4"	1'- 0"	SHIPS LADDER		
13	5	0'- 8"	0'- 1"	0'- 4"	0'- 1"	2'- 6"	3'- 4"	1'- 0"	SHIPS LADDER		
14	4	0'- 6 3/4"	0'- 1"	0'- 9 1/2"	0'- 1"	1'- 8"	2'- 3"	2'- 1 1/2"			
15	4	0'- 6 3/4"	0'- 1"	0'- 9 1/2"	0'- 1"	1'- 8"	2'- 3"	2'- 1 1/2"			
16	8	0'- 9 1/2"	0'- 1"	0'- 4"	0'- 1"	2'- 0"	6'- 4"	1'- 9"	SHIPS LADDER		
17	4	0'- 6"	0'- 1"	0'- 4"	0'- 1"	3'- 6"	2'- 0"	0'- 9"	SHIPS LADDER		
18	4	0'- 6"	0'- 1"	0'- 4"	0'- 1"	3'- 6"	2'- 0"	0'- 9"	SHIPS LADDER		
D1	7	0'- 10 5/8"	0'- 1"	0'- 4"	0'- 1"	2'- 0"	6'- 2 1/4"	1'- 6"	SHIPS LADDER		
D3	4	0'- 6"	0'- 1"	0'- 4"	0'- 1"	3'- 6"	2'- 0"	0'- 9"	SHIPS LADDER		
D4	4	0'- 6"	0'- 1"	0'- 4"	0'- 1"	3'- 6"	2'- 0"	0'- 9"	SHIPS LADDER		
D5	12	0'- 11 5/8"	0'- 1"	0'- 4"	0'- 1"	2'- 0"	11'- 7 1/2"	2'- 9"	SHIPS LADDER		





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VA FORM 08-6231

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PHONE: 303-770-1020  
FAX: 303-770-0922

GA Project Number 10-435

Drawing Title

LIGHTNING DIAGRAMS

Approved: Project Director  
JASON BROWN

Project Title

•BOILER PLANT  
-REPLACEMENT  
-

Location

- SHERIDAN, WY

Date

12/15/2011  
BIDDING & CNSTN

Checked

JG

Drawn

WS

Project Number

- 666-11-101

Building Number

- 90

Drawing Number

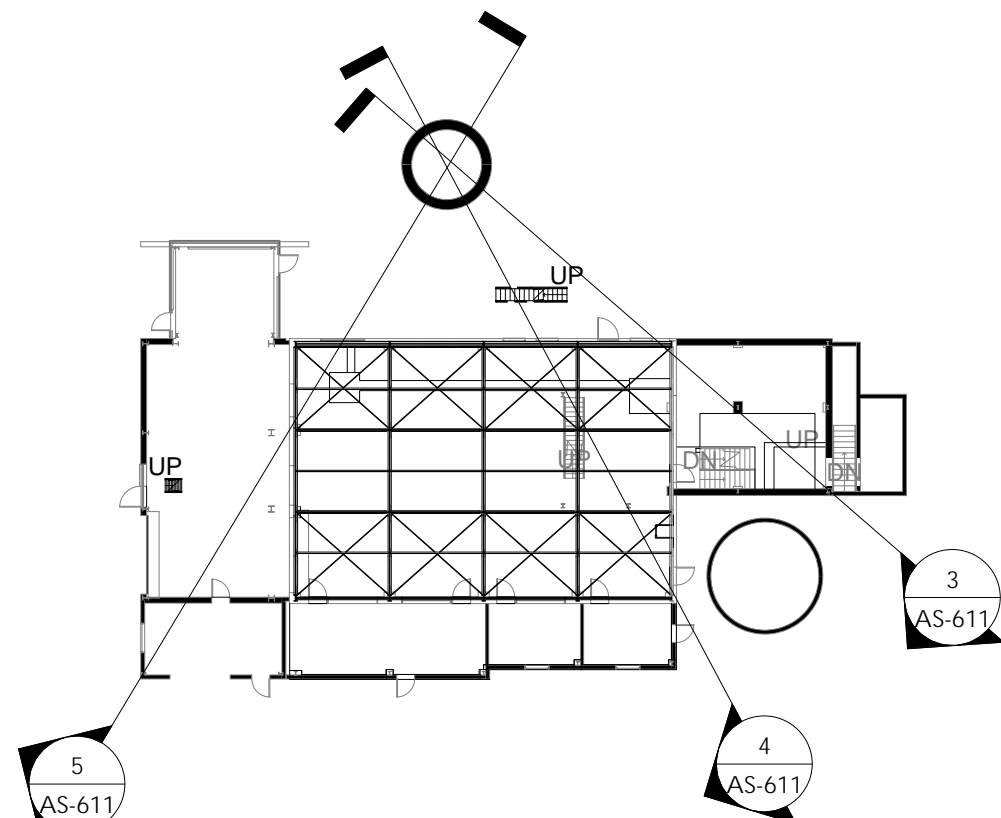
AS-611

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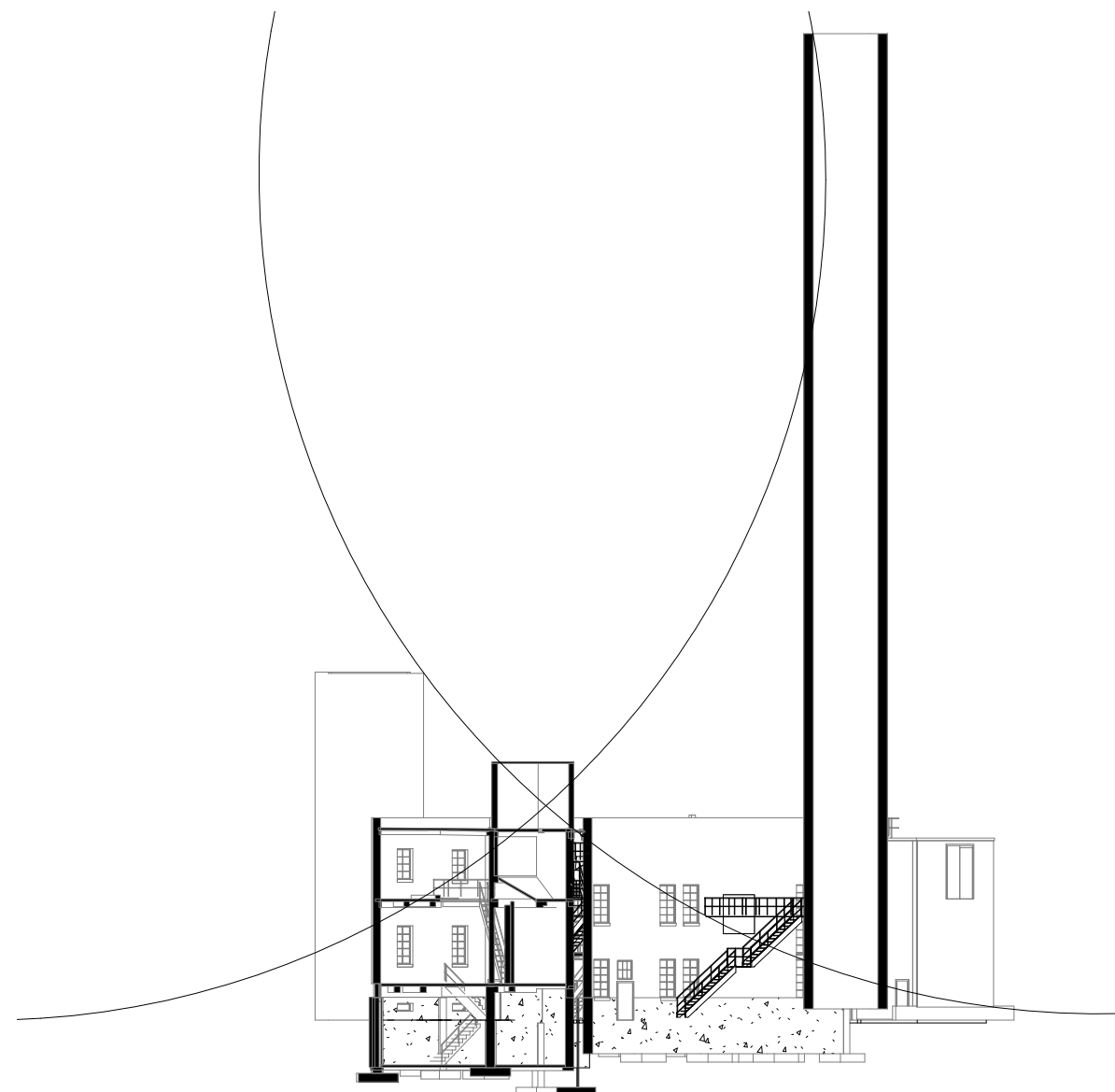
Office of  
Construction  
and Facilities  
Management



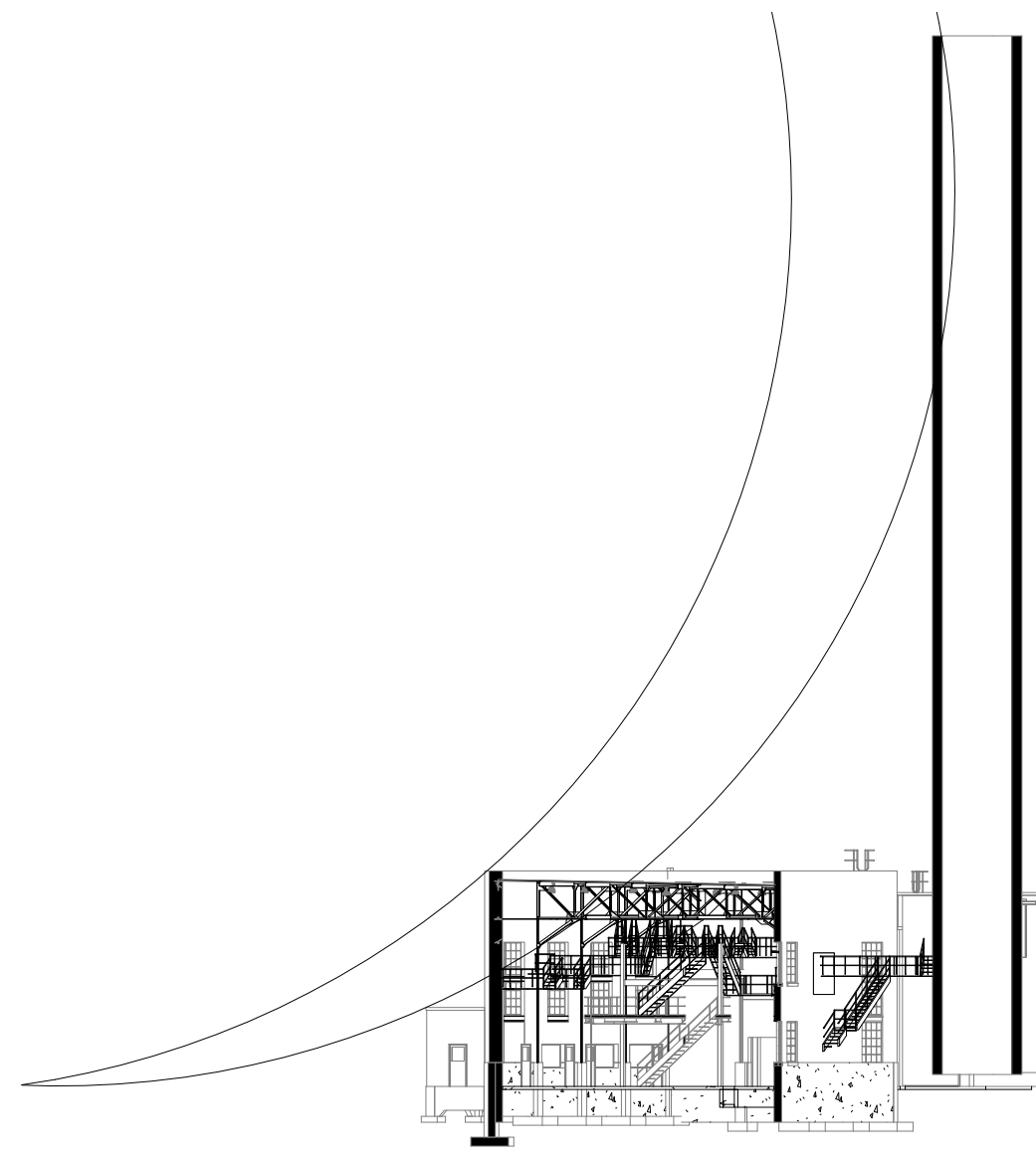
1 EXISTING PLAN  
1/32" = 1'-0"



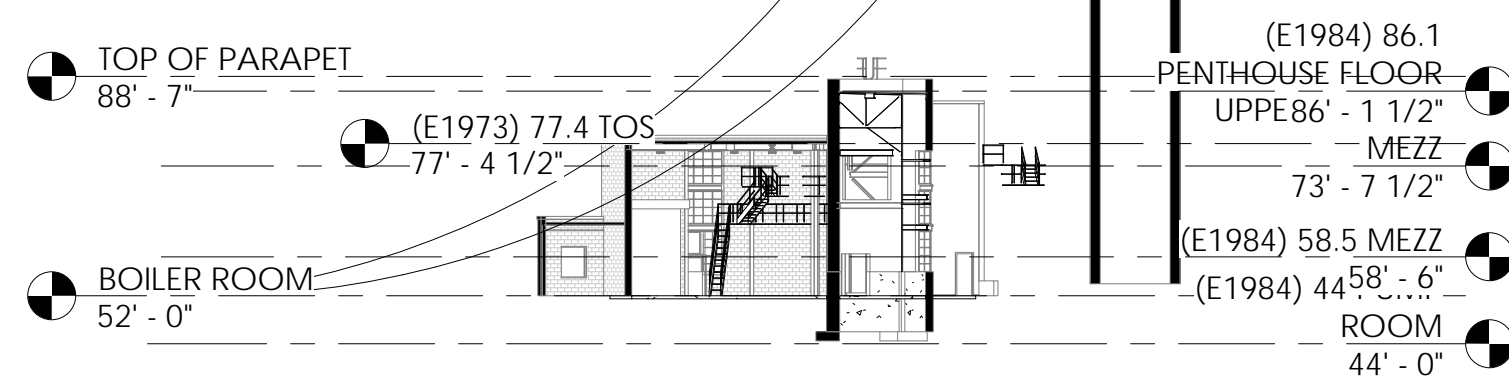
3 LIGHTNING DIAGRAM 2  
1/32" = 1'-0"



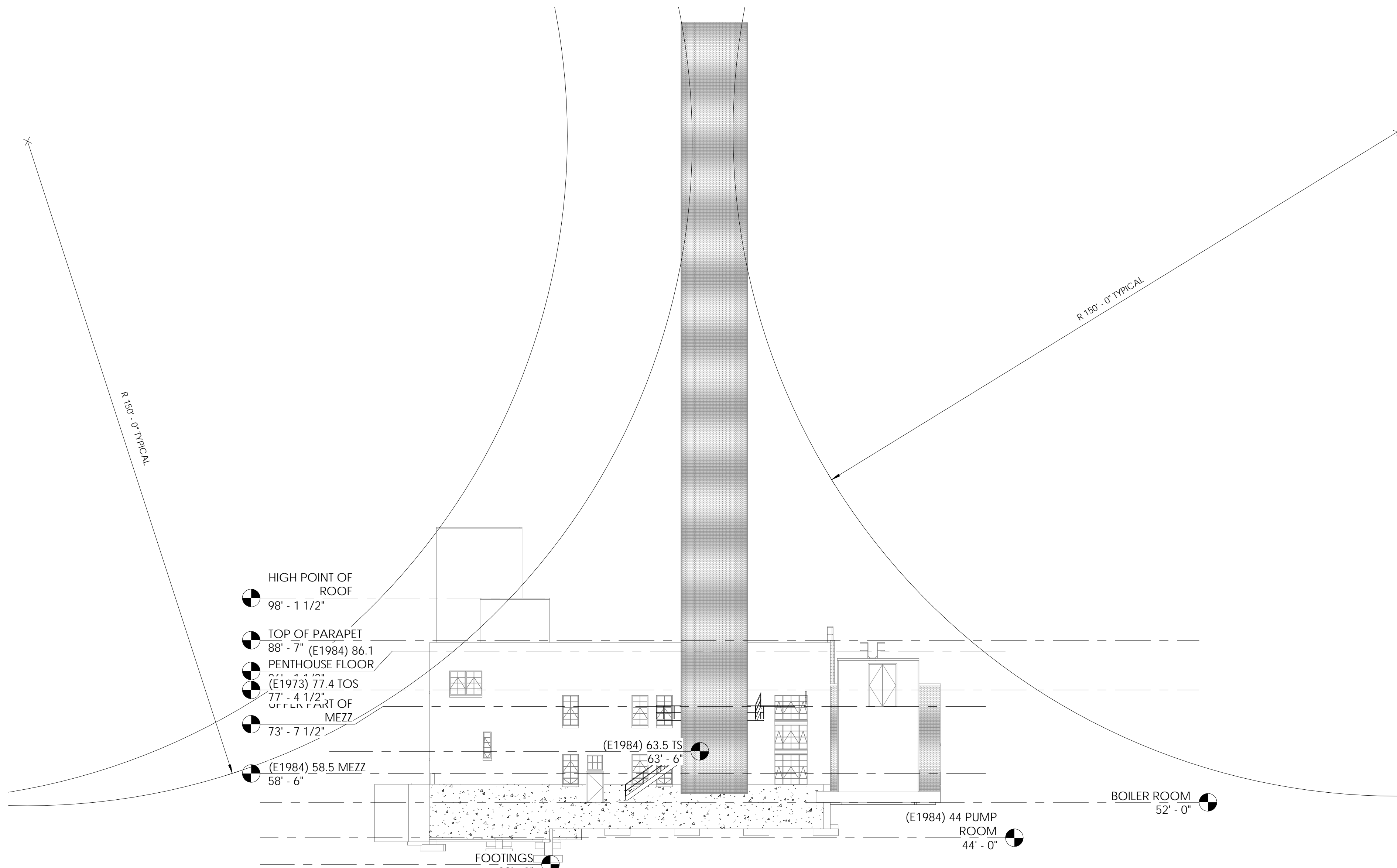
4 LIGHTNING DIAGRAM 3  
1/32" = 1'-0"



5 LIGHTNING DIAGRAM 4  
1/32" = 1'-0"



2 LIGHTNING DIAGRAM 1  
1/16" = 1'-0"





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three inches = one foot  
6"

one and one half inches = one foot  
6"

2

one inch = one foot  
6"

C

three quarters inch = one foot  
6"

D

one half inch = one foot  
6"

E

three eighths inch = one foot  
6"

F

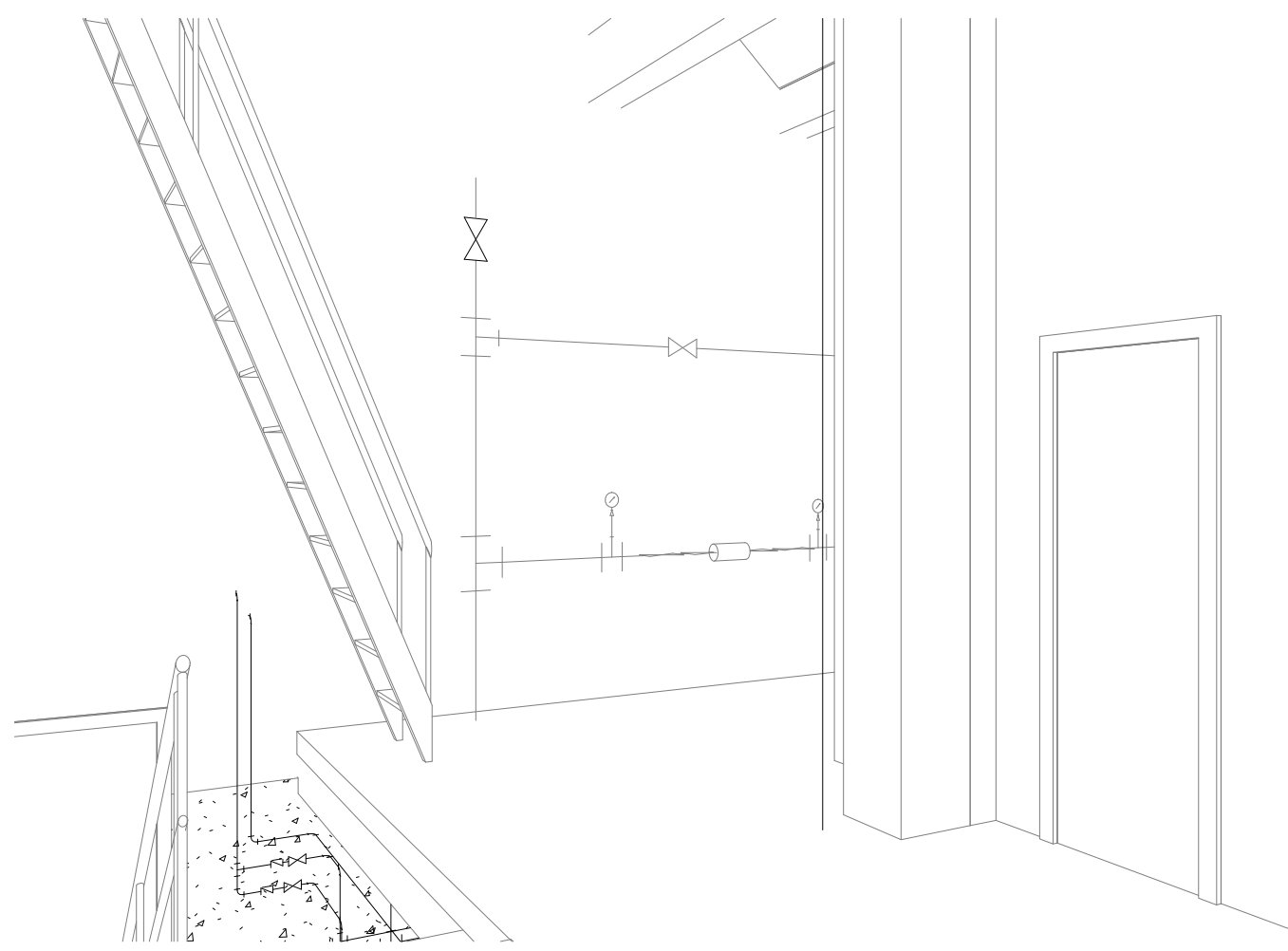
one quarter inch = one foot  
6"

0

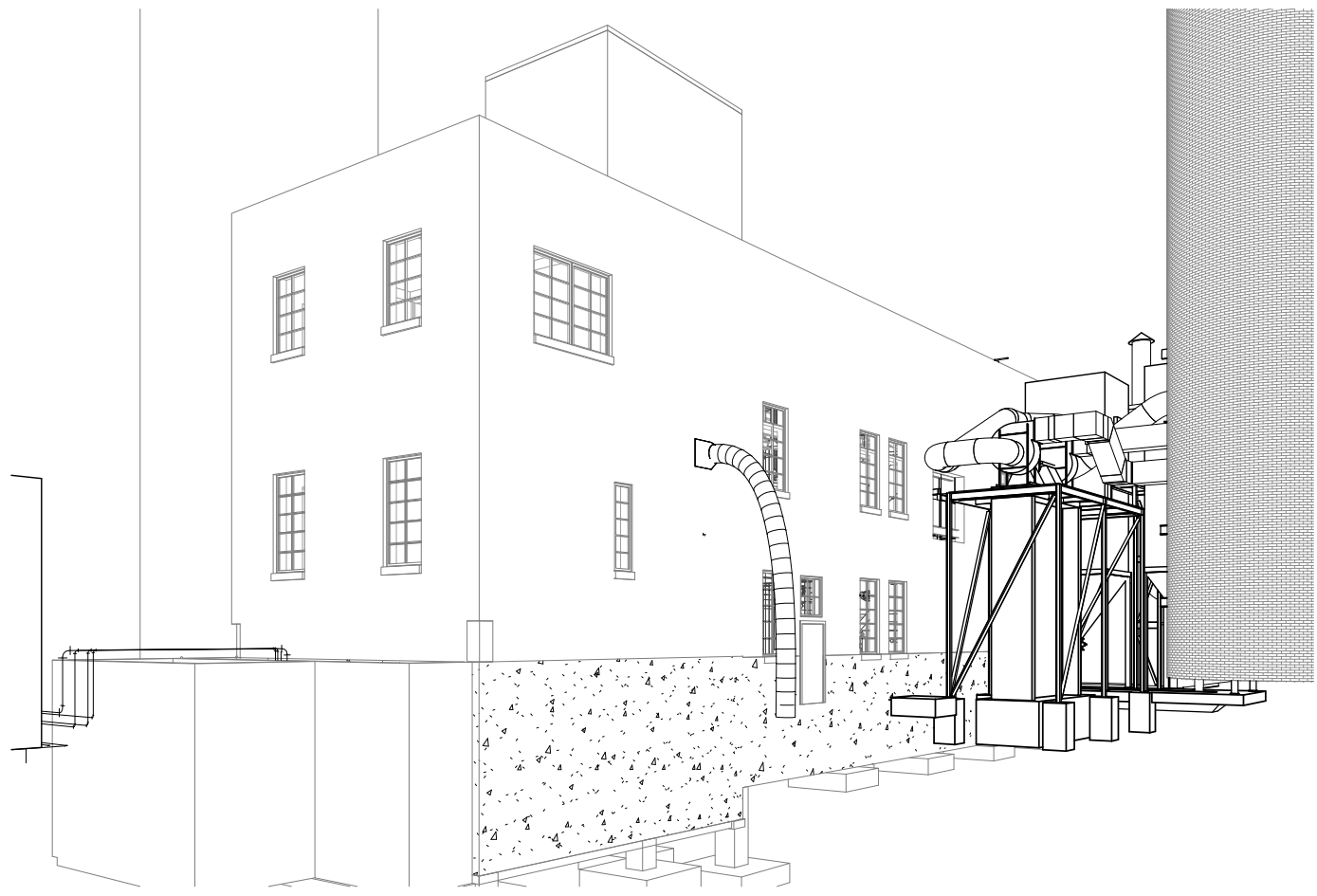
one eighth inch = one foot  
6"



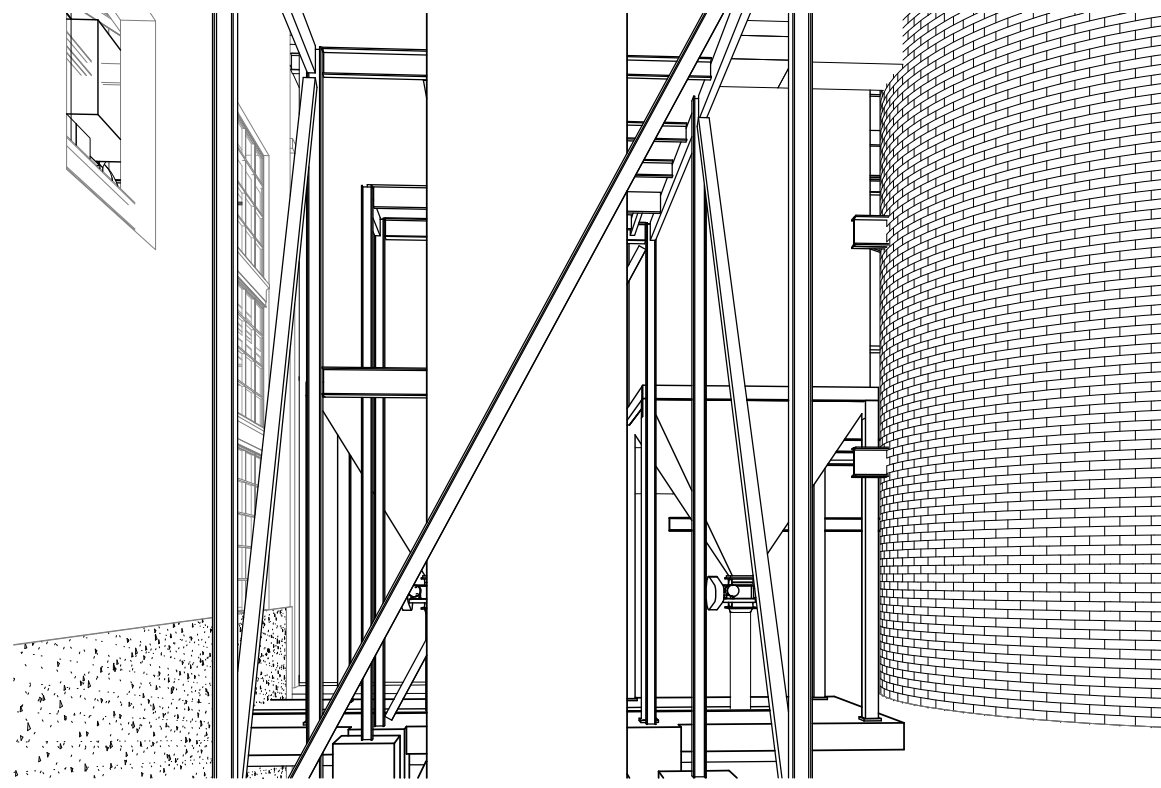
1 3D View 4



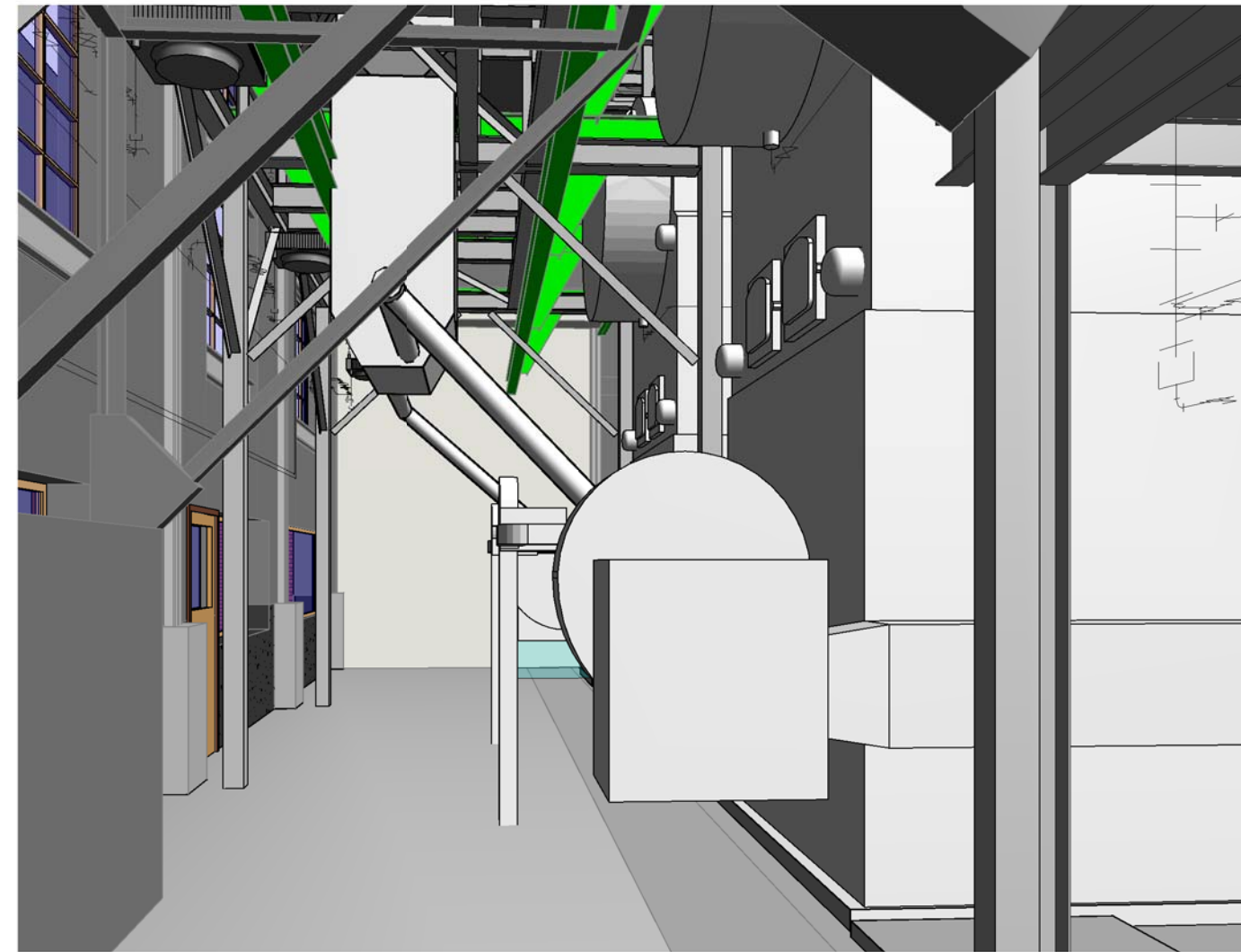
2 3D View 9



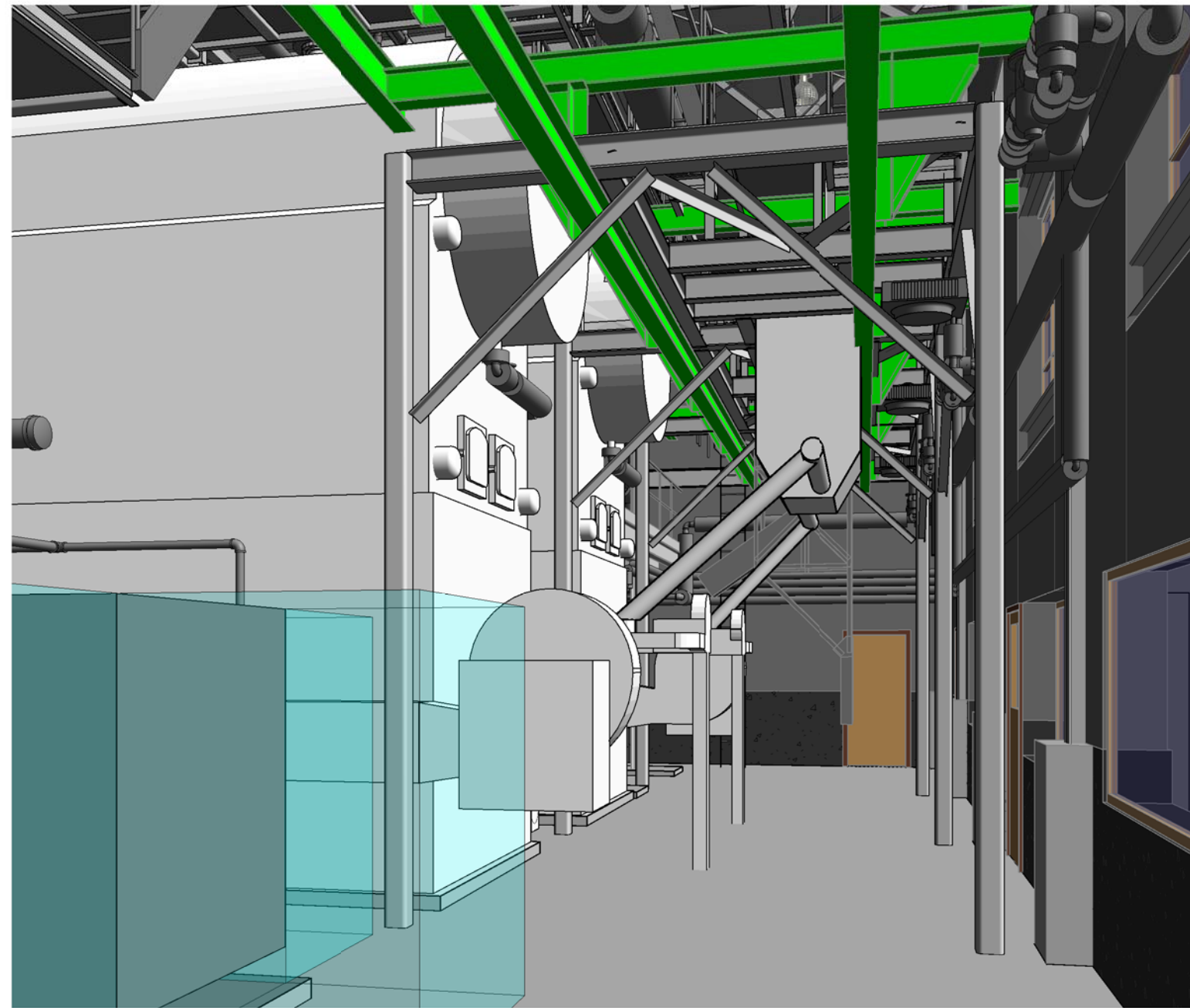
3 3D View 10



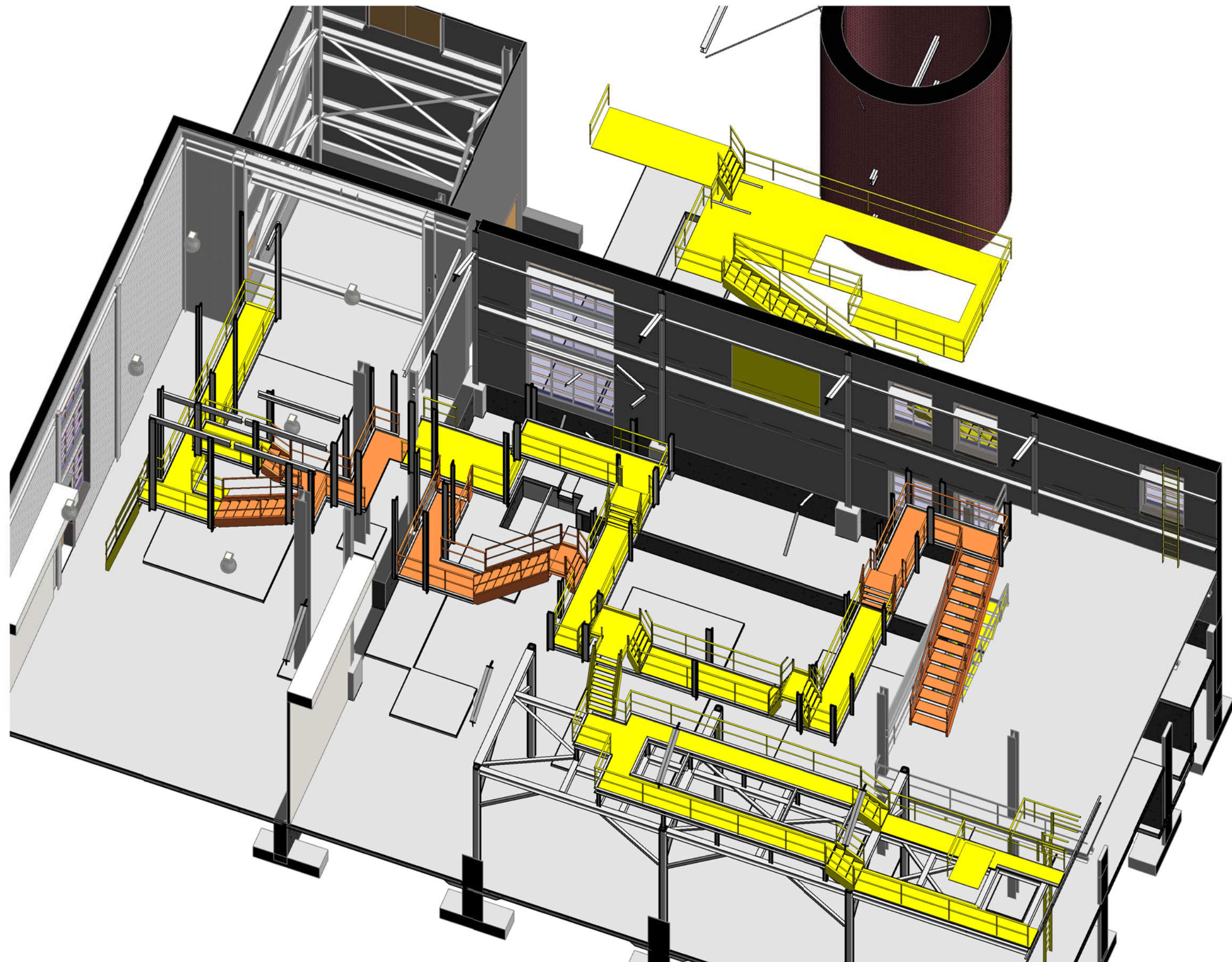
4 3D View 11



5 3D View 12



6 3D View 16



7 CATWALK ISOMETRIC SHOWING STRUCTURE

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GA Project Number 10-435

Drawing Title

3D REPRESENTATIONS

Approved: Project Director  
JASON BROWN

Project Title  
-BOILER PLANT  
-REPLACEMENT  
-

Location  
- SHERIDAN, WY

Date  
12/15/2011  
BIDDING & CNSTN

Checked  
JG

Drawn  
WS

Project Number

- 666-11-101

Building Number

- 90

Drawing Number

AS-921

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Office of  
Construction  
and Facilities  
Management

