
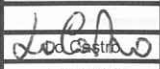



Vendor Reference:	1066-B-200	Revision :	2
Requisition Reference:	9952T - 000 - MR - 0150 - 0001	Purchase	9952T - 0000 - PO - 0150 - 0001

UTILITY BOILERS
BURNER GENERAL ARRANGEMENT
751-G-001 A/B

2	17/03/2014	Final Issue			
1	21/09/2012	Revised as per client comments	F. Caldrololi	D. Zanotti	F. Borroni
0	15/02/2012	Issue for approval	ZEECO	L. Baresi	F. Borroni
Rev	Date	STATUS	WRITTEN BY	CHECKED BY	APPROVED BY
	DD/MM/YY		(name & visa)	(name & visa)	(name & visa)

DOCUMENT REVISIONS

Sections changed in last revision are identified by a vertical line in the margin

2	17/03/2014	FINAL ISSUE	Cafà	Caldirolì	LoCastro	Borroni
1	21/09/2012	REVISED AS PER CLIENT COMMENTS	Cafà	Caldirolì	Zanotti	Borroni
0	15/02/2012	ISSUE FOR APPROVAL	ZEECO	Caldirolì	Baresi	Borroni
Rev. rev.	Data Date	Descrizione / Description	Comp. Prepared	Cont. 1 1st check	Con. 2 2nd check	Visto Approv.

MACCHITM

STEAM & POWER GENERATION

A DIVISION OF SOFINTER S.p.a.

Address: Largo Buffoni, 3 - 21013 Gallarate (VA) - Italy

Tel. ++39 0331 738111 - Fax: ++39 0331 738377

E-Mail: macchi@macchiboiler.it - Web Site: <http://www.macchiboiler.it>

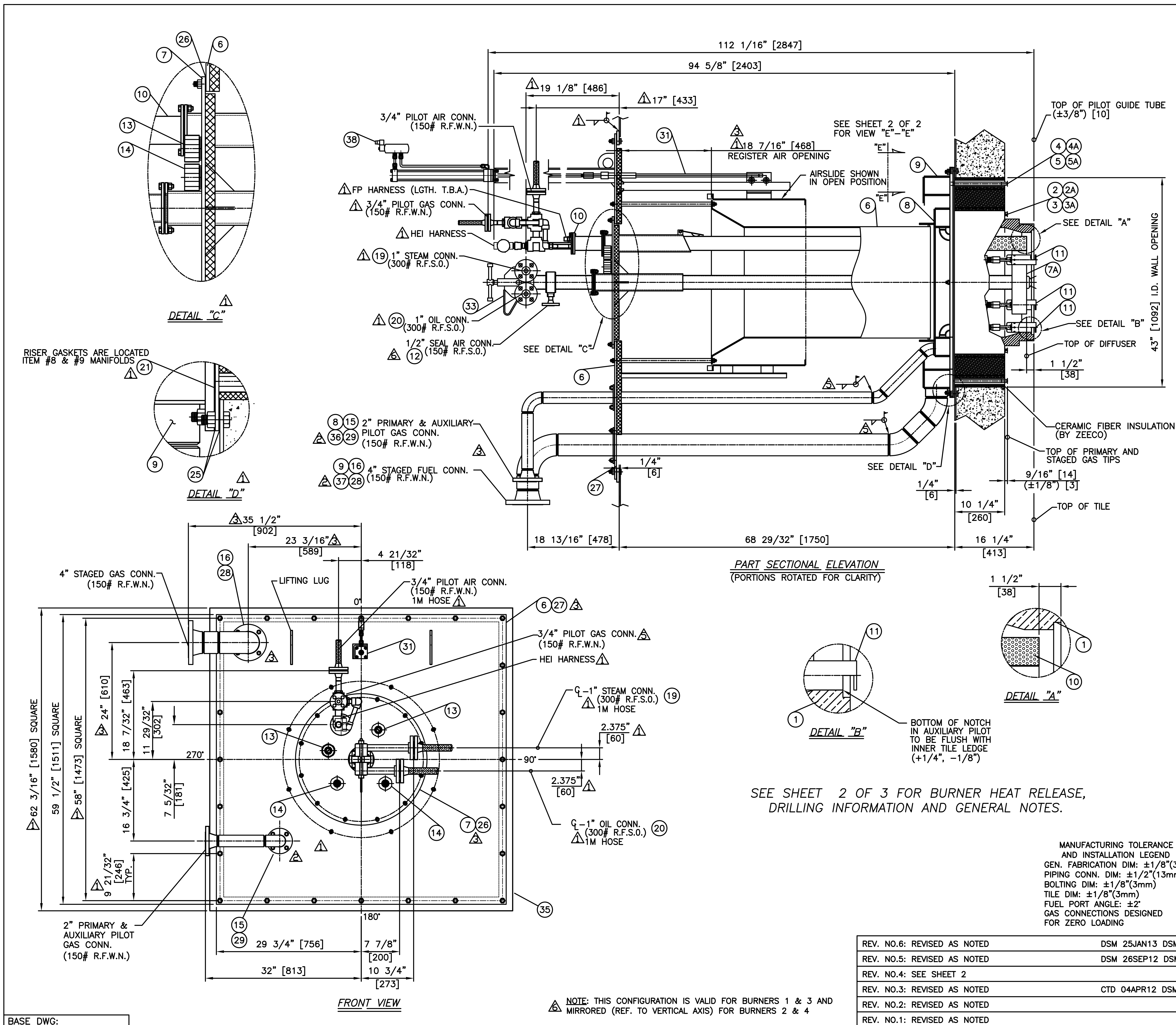
Cliente: TECHNIP FRANCE client :	Impianto : ALGIERS REFINERY REHABILITATION AND ADAPTATION PRJ plant :	Fg. 2 di 5 Sheet 2 of 5																														
Titolo / title : <div style="text-align: center; font-weight: bold; font-size: 1.2em;"> UTILITY BOILERS - BURNER GENERAL ARRANGEMENT </div>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Rev.</td> <td style="width: 10%;">0</td> <td style="width: 10%;">1</td> <td style="width: 10%;">2</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td colspan="2">Doc.No. :</td> <td colspan="8" style="text-align: center; font-weight: bold; font-size: 1.2em;">1066-B-200</td> </tr> <tr> <td colspan="2">doc.no. :</td> <td colspan="8"></td> </tr> </table>	Rev.	0	1	2							Doc.No. :		1066-B-200								doc.no. :									
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- PARTS LIST -				
ITEM	QTY	DESCRIPTION	PART NO	MATERIAL
(P) 1	1	BURNER TILE AND MOUNTING PLATE ASS'Y.	JE-3701	60% AL ₂ O ₃ w/NEEDLES
(P) 2	25	TYPE 1~(PRIMARY) GAS TIP AND RISER ASSEMBLY	JD-100	A-312 TP304 A-297 HK
(A) 2A	25	TYPE 1~GAS TIP (STAMPED "P")	CA-118	A-297 HK
(A) 3	25	TYPE 2~(PRIMARY) GAS TIP AND RISER ASSEMBLY	JD-100	A-312 TP304 A-297 HK
(A) 3A	25	TYPE 2~GAS TIP (STAMPED "P")	CA-118	A-297 HK
(A) 4	32	TYPE 1~(STAGED) GAS TIP AND RISER ASSEMBLY	JE-3760	A-312 TP304 A-297 HK
(A) 4A	32	TYPE 1~GAS TIP (STAMPED "S")	CA-281	A-297 HK
(A) 5	32	TYPE 2~(STAGED) GAS TIP AND RISER ASSEMBLY	JE-3760	A-312 TP304 A-297 HK
(A) 5A	32	TYPE 2~GAS TIP (STAMPED "S")	CA-281	A-297 HK
6	1	BURNER AIR REGISTER AND MOUNTING PLATE ASSEMBLY	JE-3702	-/-
7	1	BURNER FRONT PLATE ASSEMBLY	JE-3704	-/-
7A	1	SPIN DIFFUSER ASSEMBLY	JE-3703	A-240 310
(A) 8	1	PRIMARY FUEL GAS MANIFOLD ASSEMBLY	JE-3705	-/-
9	1	STAGED FUEL GAS MANIFOLD ASSEMBLY	JE-3706	-/-
(R/P) 10	1	AR/GS-1 PILOT HIGH CAPACITY ASSEMBLY	UB-1158	-/-
(R/P) 11	6	EX-MO AUXILIARY PILOT ASSEMBLY	UB-1138	-/-
12	1	OIL GUN GUIDE TUBE AND AIR BLOCK ASSEMBLY	JE-3711	-/-
(R) 13	2	SWIVEL SCANNER MOUNT ASSEMBLY (1" NPT CONN.)	XA-053	-/-
(R) 14	2	2" SIGHT GLASS/LIGHT PORT ASSEMBLY	XA-054	-/-
(A) 15	1	COVER PLATE PRIMARY FUEL MANIFOLD	EB-328	A-36
(A) 15A	0	DELETED	-/-	-/-
(A) 16	1	COVER PLATE STAGED FUEL MANIFOLD	EB-327	A-36
(A) 16A	0	DELETED	-/-	-/-
(A) 17	0	DELETED	-/-	-/-
(A) 18	0	DELETED	-/-	-/-
19	1	FLANGED NIPPLE ASSEMBLY (300# RFSO) (STEAM)	JA-128A	A-105 A-106B
20	1	FLANGED NIPPLE ASSEMBLY (300# RFSO) (OIL)	JA-128B	A-105 A-106B
21	114	GAS RISER GASKET (1/16")	AA-361	GSK. MAT'L
(A) 22	0	DELETED	-/-	-/-
(A) 23	0	DELETED	-/-	-/-
(A) 24	0	DELETED	-/-	-/-
(A) 25	2	TUBING GASKET (12 1/2 FT.) [3.8 M.] LG.	1/2" O.D.	FIBERGLASS
(A) 26	1	TUBING GASKET (7 1/2 FT.) [2.9 M.] LG.	1/2" O.D.	FIBERGLASS
(A) 27	1	TUBING GASKET (20 1/2 FT.) [6.25 M.] LG.	1/2" O.D.	FIBERGLASS
(A) 28	1	ROPE GASKET (1 1/4 FT.) [.4 M.] LG.	1/4" O.D.	FIBERGLASS
(A) 29	1	ROPE GASKET (3/4 FT.) [.25 M.] LG.	1/4" O.D.	FIBERGLASS
(A) 30	0	DELETED	-/-	-/-
(A) 31	1	REGISTER AIR SLIDE ASSEMBLY	JE-3871	-/-
(A) 32	0	DELETED	-/-	-/-
(A/P) 33	1	EOA Z2 DUAL TUBE OIL GUN ASSEMBLY	RB-1843	-/-
(A) 34	1	GAS TIP SOCKET (SHIP LOOSE)	CA-119	-/-
(A) 35	1	WINDBOX MOUNTING PLATE ASSY	JE-3870	-/-
(A) 36	1	PRIMARY GAS MANIFOLD ASSEMBLY	JE-3872	-/-
(A) 37	1	STAGED GAS MANIFOLD ASSEMBLY	JE-3873	-/-
(A) 38	1	PNEUMATIC RETRACT ASSEMBLY	JE-3880	-/-

(P) = RECOMMENDED SPARE PARTS
(R) = REFERENCE DRAWINGS : B-UB-1158 AR/GS-1 PILOT ASSEMBLY; B-UB-1138 JM-1S AUXILIARY PILOT ASSEMBLY; B-XA-053-SWIVEL SCANNER MOUNT ASS'Y.; B-RB-1843 EOA DUAL TUBE OIL GUN INSERT ASSEMBLY. B-XA-054-2" SIGHT GLASS/LIGHT PORT ASS'Y.; B-RB-1843 OIL GUN ASS'Y.; TAG NO's. : RB-1835-1 BURNER ASSEMBLY; JE-3701-1 BURNER TILE AND MOUNTING PLATE ASSEMBLY; RB-1835-25 TUBING GASKET; RB-1835-27 TUBING GASKET; RB-1835-34 GAS TIP SOCKET

PATENT No.: 6,499,990

JOBSITE: ALGERIA	ELEVATION: [20.5 M.] (ASL)
P.O. NO.: AV/AC/2587	S.O. NO.: 20746

ZECCO, INC.
22151 EAST 91st STREET
BROKEN ARROW, OK 74014
PHONE: (918) 258-8551
FAX: (918) 251-5519
www.zecco.com
sales@zecco.com

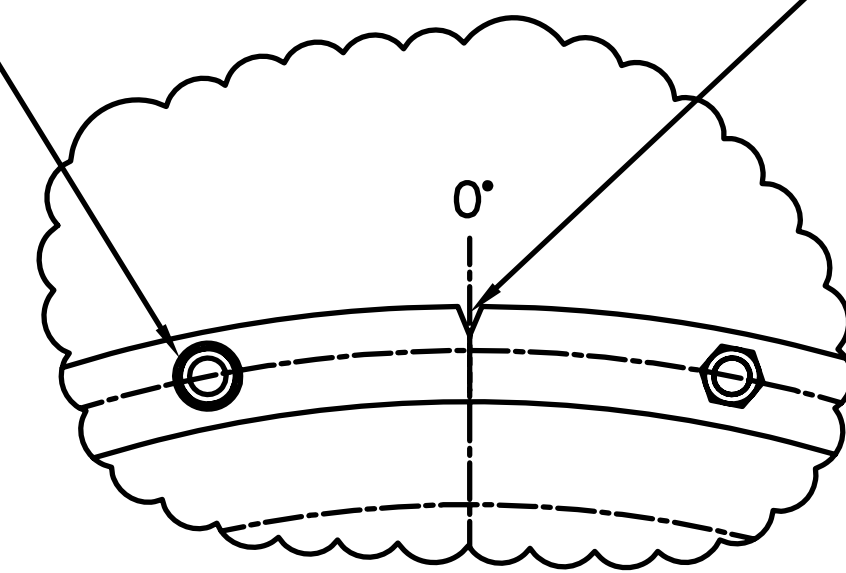
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USER: ALGIERS REFINERY
CLSF-17 COMBINATION OIL AND GAS FREE-JET GAS BURNER ASS'Y.
TAG. NO.: 751-G-001 A&B
BOILER: D TYPE (8~REQUIRED)

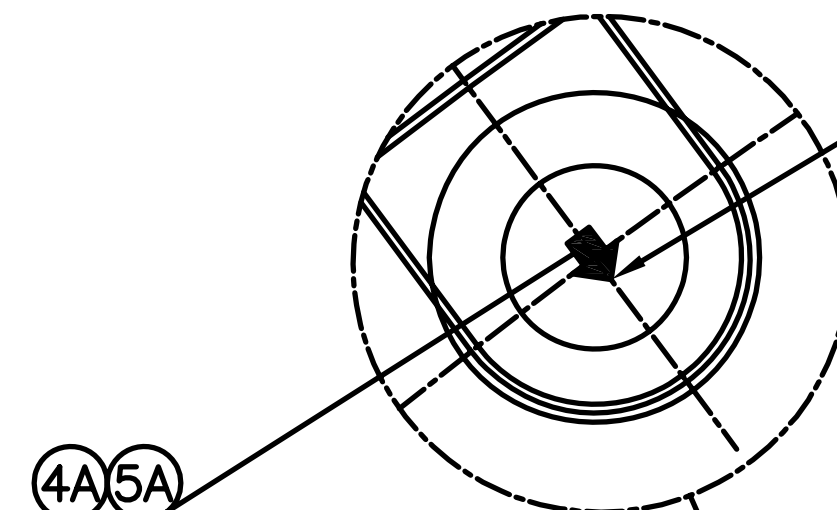
FOR: MACCHI - A DIVISION OF SOFINETER S.P.A.

DRAWN: DMS
CHK: SAF
SCALE: NONE
DATE: 24JAN12
APP: ELJ
REV: 6

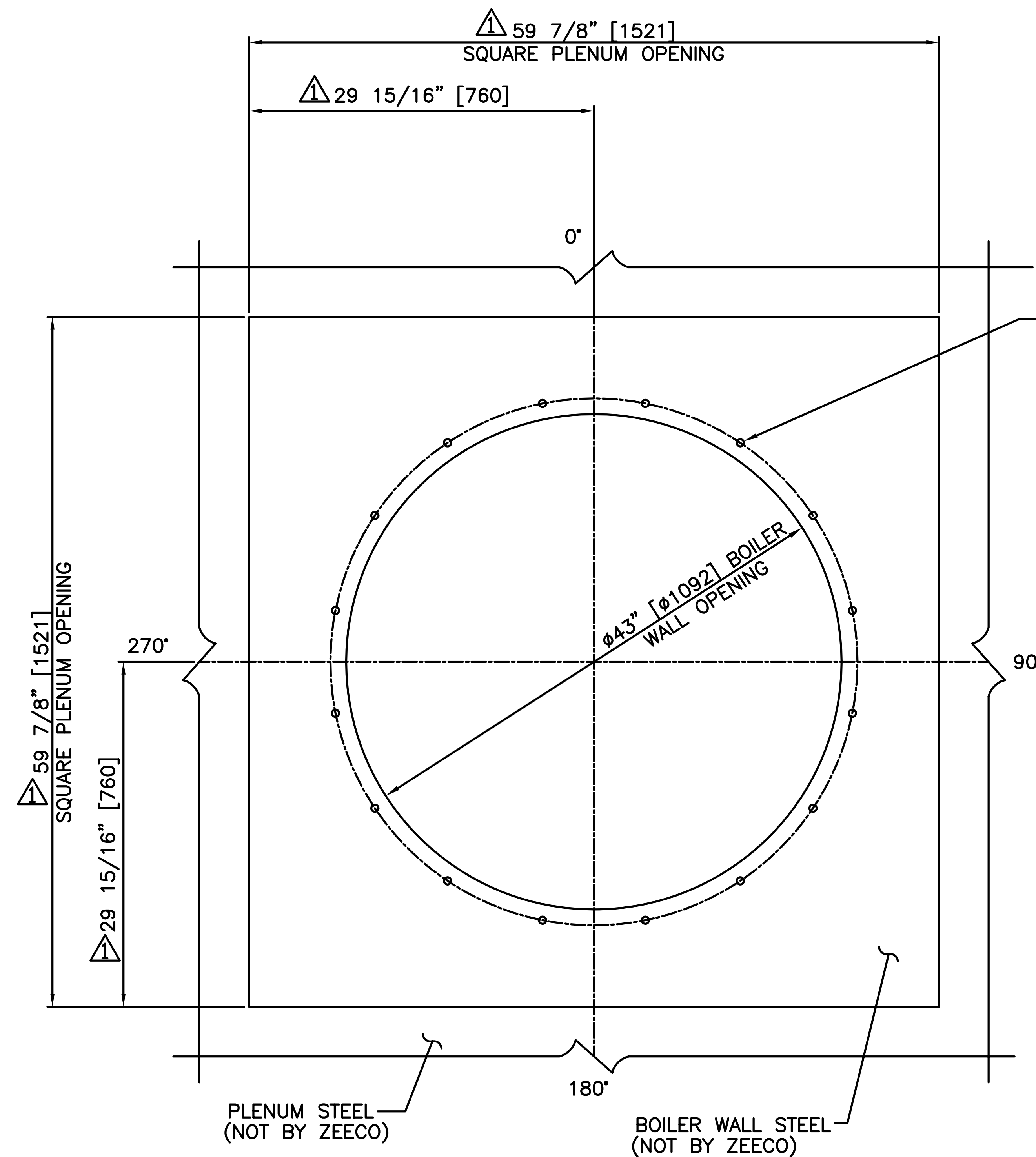
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SHEET 1 OF 3



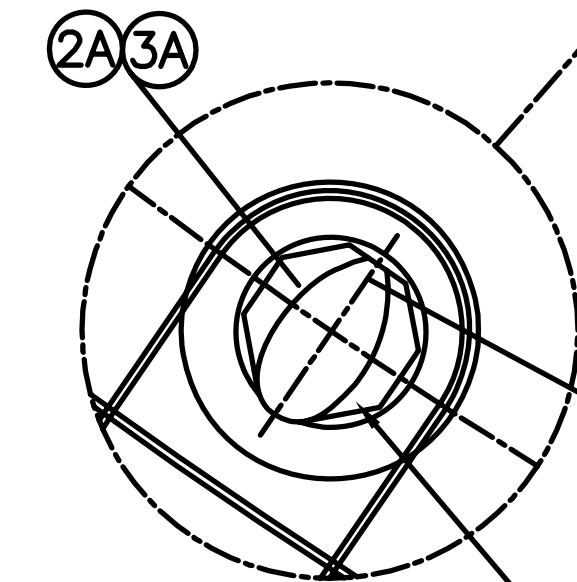
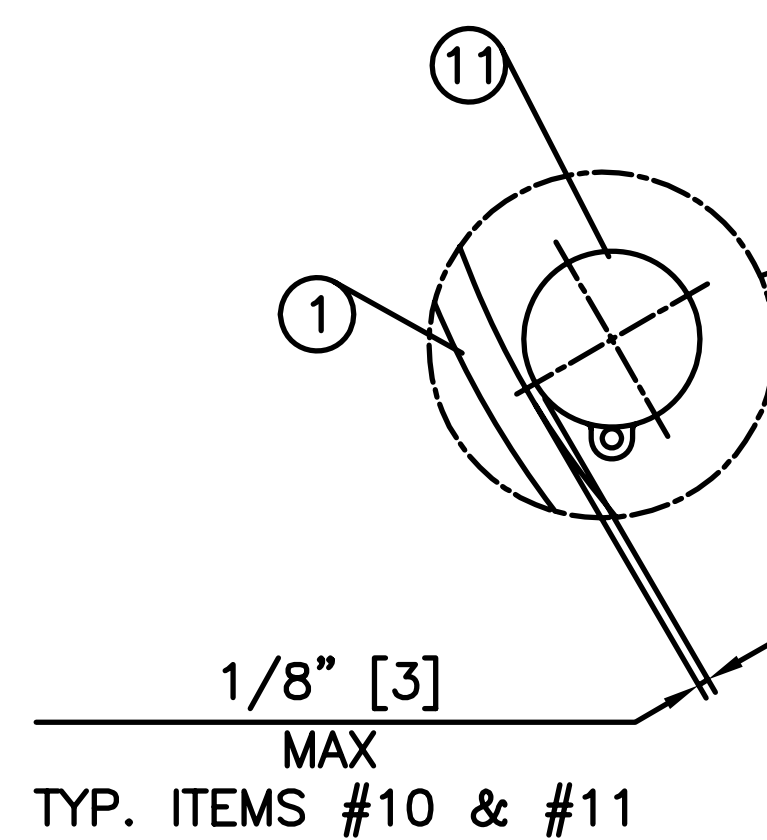
VIEW "E"-"E"
FROM SHEET 1 OF 2



—NOTE: ARROW ON GAS TIP
POINTS TOWARDS BURNER CENTERLINE



THIS AREA IS PACKED WITH HIGH-TEMP
KAOWOOL CERAMIC FIBER (OR EQUAL).
(BY ZEECO)



- U.S. PATENT #6,626,661

TILE VIEW


(BY ZEECO)
CASTABLE REFRACTORY

SEE SHEET 1 OF 2 FOR BURNER PARTS LIST

ZEECO, INC.
22151 EAST 91ST STREET
BROKEN ARROW, OK 74014

PHONE: (918) 258-8551
FAX: (918) 251-5519

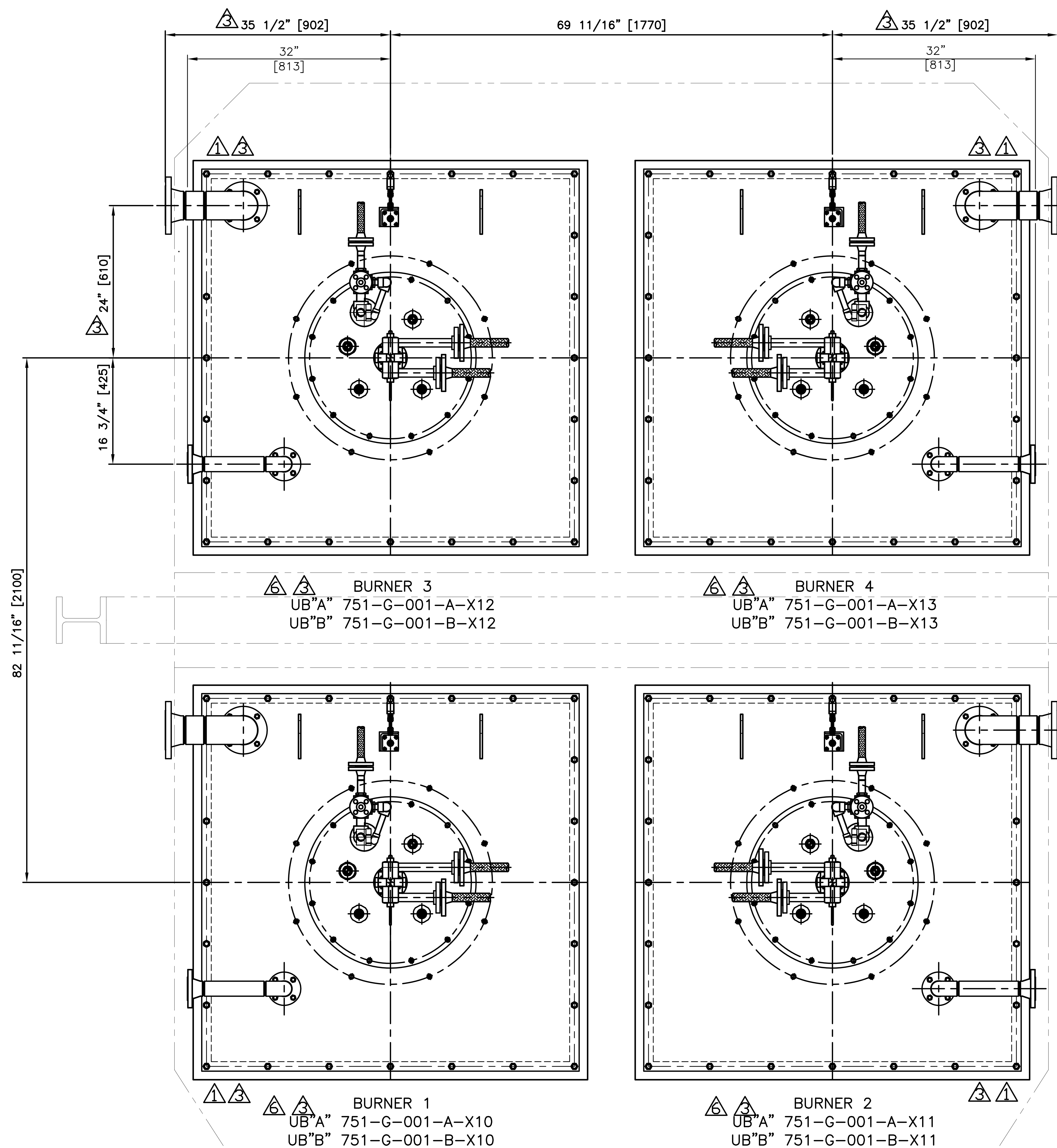
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S	DRAWN: DMS	DATE: 24JAN12
	CHK: SAF	APP: ELJ
	SCALE: NONE	REV: 6
DRAWING NUMBER: B-RB-1835 SHEET 2 OF 3		

FOR: MACCHI- A DIVISION OF SOFINETER S.P.A.



MANUFACTURING TOLERANCE
AND INSTALLATION LEGEND
GEN. FABRICATION DIM: $\pm 1/8"$ (3mm)
PIPING CONN. DIM: $\pm 1/2"$ (13mm)
BOLTING DIM: $\pm 1/8"$ (3mm)
TILE DIM: $\pm 1/8"$ (3mm)
FUEL PORT ANGLE: $\pm 2^\circ$
GAS CONNECTIONS DESIGNED
FOR ZERO LOADING

REV. NO.6: REVISED AS NOTED	DSM 25JAN13 DSM CWL
REV. NO.5: REVISED AS NOTED	DSM 26SEP12 DSM CWL
REV. NO.4: SEE SHEET 2 FOR REVISIONS.	
REV. NO.3: REVISED INLET LOCATION. UPDATED PICTORALLY. SEE SHT 1 FOR REV'S.	
REV. NO.2: UPDATED PICTORALLY. SEE SHEET 1 FOR REVISIONS.	
REV. NO.1: REVISED FRONT PLATE & ADDED WINDBOX MOUNTING ADJUSTMENT PLATE.	

PATENT No.: 6,499,990			
JOBSITE: ALGERIA		ELEVATION: [20.5 M.] (ASL)	
P.O. NO.: AV/AC/2587		S.O. NO.: 20746	
<div><div>ZEECO, INC. 22151 EAST 91st STREET BROKEN ARROW, OK 74014 PHONE: (918) 258-5551 FAX: (918) 251-5519 www.zeeeco.com sales@zeeeco.com</div><div></div></div>		USER: ALGIERS REFINERY	
<div>PROPRIETARY DATA IS INCLUDED IN THE INFORMATION DISCLOSED HEREIN AND IS THE PROPERTY OF ZEECO, INC. THIS INFORMATION IS SUBMITTED IN CONFIDENCE AND MUST BE USED IN CONNECTION WITH WORK DONE FOR ZEECO, INC. AND ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED. UNAUTHORIZED DISCLOSURE OR USE IS PROHIBITED BY LAW.</div>		CLSF-17 COMBINATION OIL AND GAS FREE-JET GAS BURNER ASS'Y. TAG. NO.: 751-G-001 A&B BOILER: D TYPE (8~REQUIRED)	
		FOR: MACCHI- A DIVISION OF SOFINETER S.P.A.	
		DRAWING NUMBER: B-RB-1835 SHEET 3 OF 3	
DRAWN: DMS CHK: SAF SCALE: NONE		DATE: 24JAN12 APP: ELJ REV: 6	

BASE DWG: