

DRAWING NUMBER
V.P.
4915-1-F-3-1-1
1F-301

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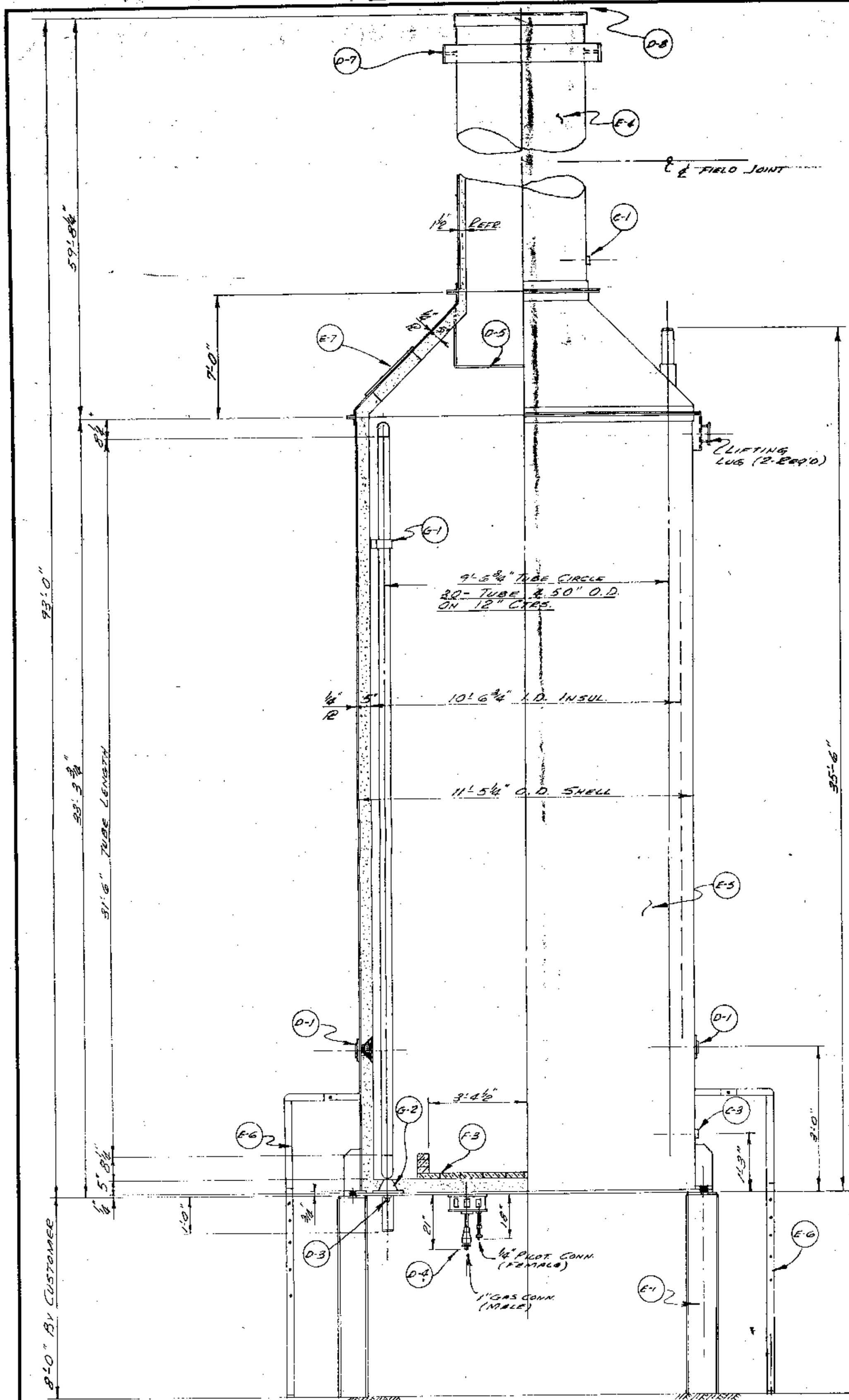
DRAWING NUMBER

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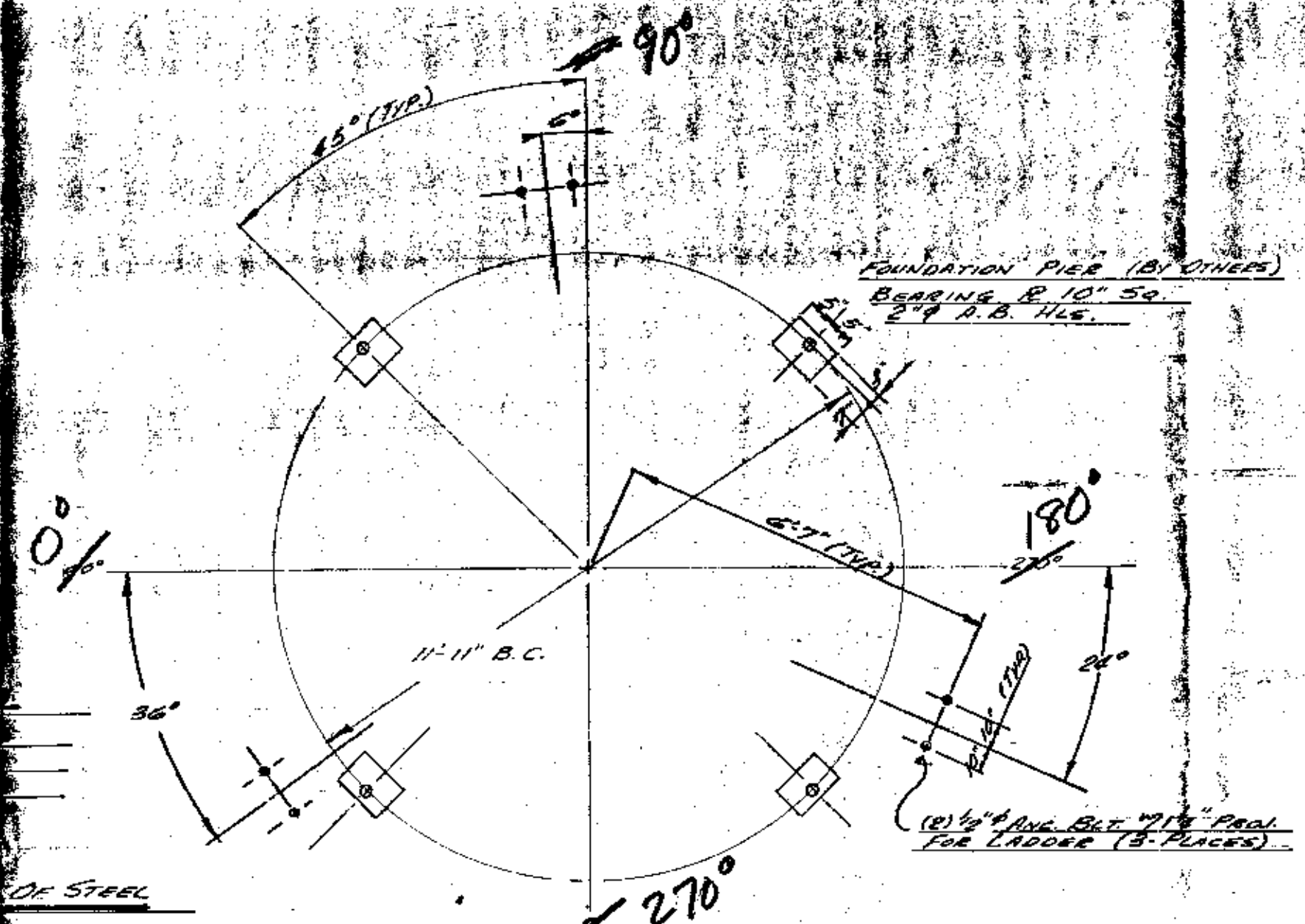


DIAGRAMMATIC SECTIONAL ELEVATION

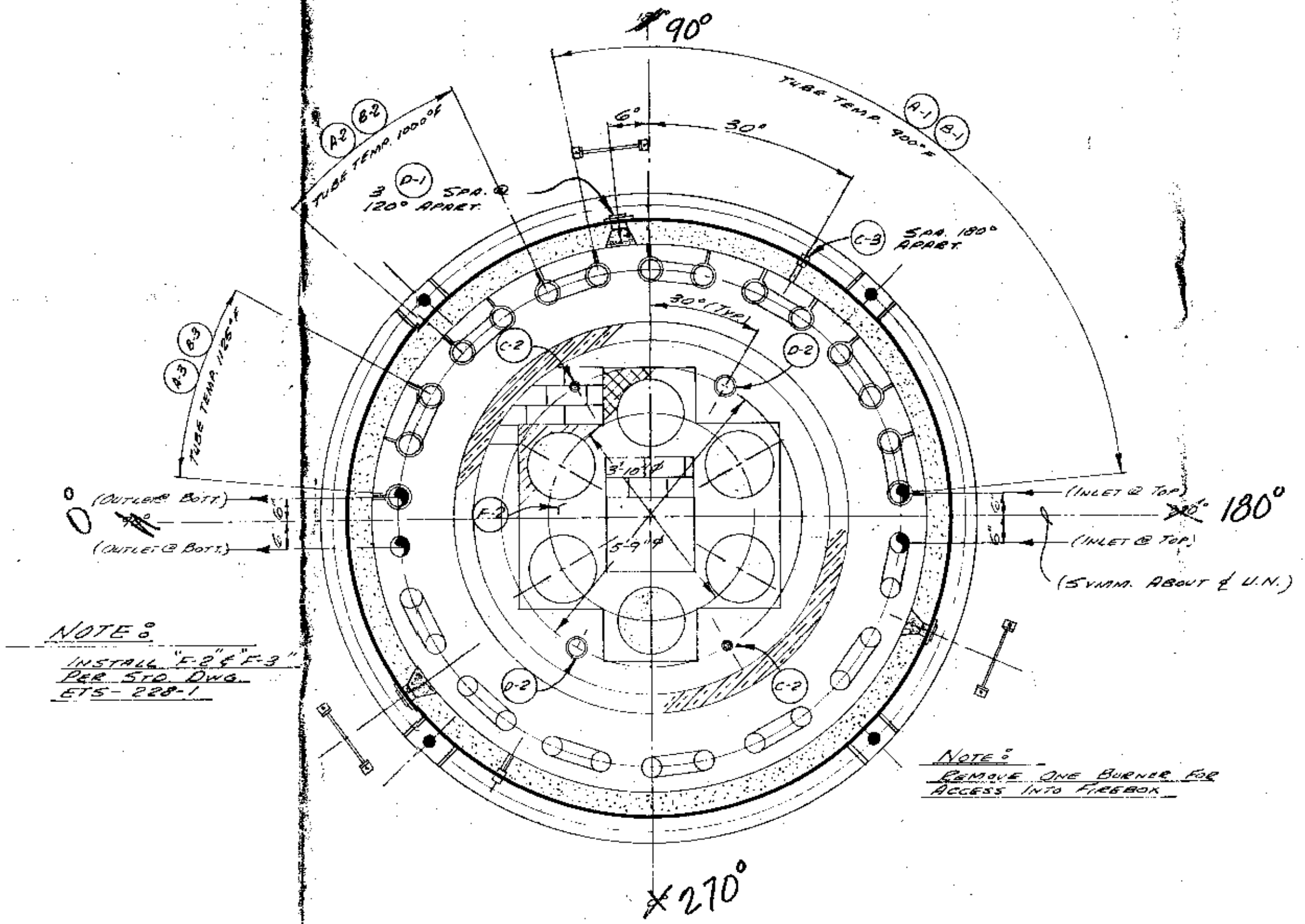
NOTE:
SEE SECTION THRU FIREBOX FOR EXACT ORIENTATIONS OF COMPONENTS.

(TYP. LOADING @ EA. COIL)
E.C. LOAD: 36,700#
WIND LOAD: 41,000#
WIND SHEAR: 3,010#
E.C. SHEAR: 6,385#

TOTAL LOADING @ BASE OF STEEL
DEAD LOAD COIL ENERGY: 78,800#
WIND LOAD @ BASE OF STEEL: 41,000#
EARTH QUAKE TOTAL Q.E.M.: 229,500#



ANCHOR BOLT LAYOUT & FOUNDATION LOADING
WIND LOAD BASED PER A.S.A. A5.1 FOR BLYTHEVILLE, ARKANSAS



SECTION THRU FIREBOX
(SHOWING THE ORIENTATION)
Plant

NOTE:
INSTALL "E-4-F-3"
PER S10 DWG.
ETS-228-1

NOTE:
REMOVE ONE BURNER FOR ACCESS INTO FIREBOX

COIL DATA

DESIGN CONDITIONS
TEMP: 250° MAX. FLUID TEMPERATURE AT 15.00 MM
BTU PER HR. ABSORPTION
PRESSURE: 2750 P.S.I.
TUBE METAL TEMPERATURE: SEE SPEC. FOR DETAILS
HYDROSTATIC TEST: 275 P.S.I.
WELDING: PER SPEC. (SEE BECHTEL FORM 741)
(490 FT. 5.0" DIA. X 1.0" THK. ALL WELDS)

SCHEDULE OF PIPE

IDENT.	QTY.	DESCRIPTION
A-1	18	1.50" O.D. x 0.237" A.W. ALLOY STEEL PER A.S.T.M. SPEC. A-213 GR. F-2
A-2	6	DIET. 4" EXCEPT 0.370" A.W. ALLOY STEEL PER A.S.T.M. SPEC. A-213 GR. F-2
A-3	6	DIET. 4" EXCEPT 0.370" A.W. ALLOY STEEL PER A.S.T.M. SPEC. A-213 GR. F-2

SCHEDULE OF FITTINGS

IDENT.	QTY.	DESCRIPTION
B-1	18	4" I.D. SCH. 40 (0.237" A.W.) ALLOY STEEL PER A.S.T.M. SPEC. A-213 GR. F-2
B-2	6	CAST 4" BOLT TO FIT 1.50" O.D. x 0.370" A.W. TUBE PER A.S.T.M. SPEC. A-213 GR. F-2
B-3	6	DIET. 4" EXCEPT 0.370" A.W. ALLOY STEEL PER A.S.T.M. SPEC. A-213 GR. F-2

MISCELLANEOUS CONNECTIONS

IDENT.	QTY.	DESCRIPTION
C-1	1	1" 3000# F.S. C.P.G. (SEED) IN STACK
C-2	2	1" 3000# F.S. C.P.G. (SEED) IN FLOOR ON 4" DIA. STEEL STUDS
C-3	2	1" 3000# F.S. C.P.G. (SEED) IN FLOOR SECTION FOR DRAFT GAGE

MISCELLANEOUS ITEMS

IDENT.	QTY.	DESCRIPTION
D-1	3	OBSERVATION DECK
D-2	2	FLOOR STUDS 1" DIA. x 12" LONG
D-3	14	1" P.C.S. STUDS 8" LONG 7/8" DIA. LATH ONE END & A.S. H.H. MAX. NUT (WELD ONE END OF STUD TO EXISTING FLOORING)
D-4	6	STEEL STUDS BURNER TYPE LADDER W/ PROTS
D-5	1	ALLOY (25-12) BARREL
D-6	1	5.5" BEER RUGGERS IN FLOOR SECTION ONLY ON 4" DIA. STUDS
D-7	1	PRINTED WHEEL & ROLL 19 3/4" x 5.5" CABLE TO BE USED
D-8	1	RAIN HOOD ON STACK (NOT SHOWN) #055

GENERAL NOTES & STRUCTURE

IDENT.	DESCRIPTION
E-1	FOUNDATION TO BE DESIGNED & CONSTRUCTED BY CUSTOMER
E-2	HEATER TO BE CONSTRUCTED IN ACCORDANCE WITH SECTION S10 DWG. S10-1
E-3	HEATER OUTSIDE SURFACES TO BE SAND-BLASTED & PAINTED PER BECHTEL SPEC. F-504
E-4	4" DIA. STEEL LINGER STACK 34" DIA. MIN.
E-5	4" DIA. STEEL LINGER STACK 34" DIA. MIN.
E-6	LADDER TO OBSERVATION DECK
E-7	TUBE PULLING CODE (1-2202)

BECHTEL CORPORATION
Date: 3/2/65

1F-301
#94202

V.P.-4915-1-F-3-1-1

EQUIP. NO. 1F-301

INSULATION COMPONENTS

IDENT.	DESCRIPTION
F-1	1/2" x 1/2" LUMULITE - HAYDITE VERMIGULITE FIBER THICKNESS AS SHOWN
F-2	FURNAS: CEMENT 2 1/2" THK. AROUND BURNERS
F-3	2 1/2" x 2 1/2" FIRST QUALITY FIBER BRICKS IN FLOOR & DIRECTION WALL

ALLOY TUBE SUPPORT CASTINGS

IDENT.	QTY.	DESCRIPTION
G-1	30	TUBE GUIDE NR. ETS-2214-B
G-2	18	TUBE SUPPORT STEEL NR. ETS-2215-1

CUSTOMER NAME

BECHTEL CORPORATION	
P.O. NUMBER:	ITEM NUMBER:
4915-1F-3-AC	1F-301
SERVICE & DUTY: 15.00 MM BTL / HR. AMMONIA CONVERTER START-UP HEATER	
PLANT & LOCATION: CONTINENTAL OIL CO. BLYTHEVILLE, ARKANSAS	

EGONO-THERM CORPORATION

P.O. BOX 7158	4502 SO. GALVESTON	PHO. NO. 5-4498	RECHO
TULSA 5, OKLAHOMA			THRM
TITLE: ASSEMBLY & CONTROL DRAWING			
DWN. TH	CKD. RBC	APP. J.S.	SCALE: NONE
DATE: 1-18-65	DATE: 2-26-65	DATE: 2/26/65	DWG. NO. ETC-121-1

REV.	BY	CHKD.	DATE	DESCRIPTION
1	TH	RBC	2/26/65	REVISED PER APPROVAL