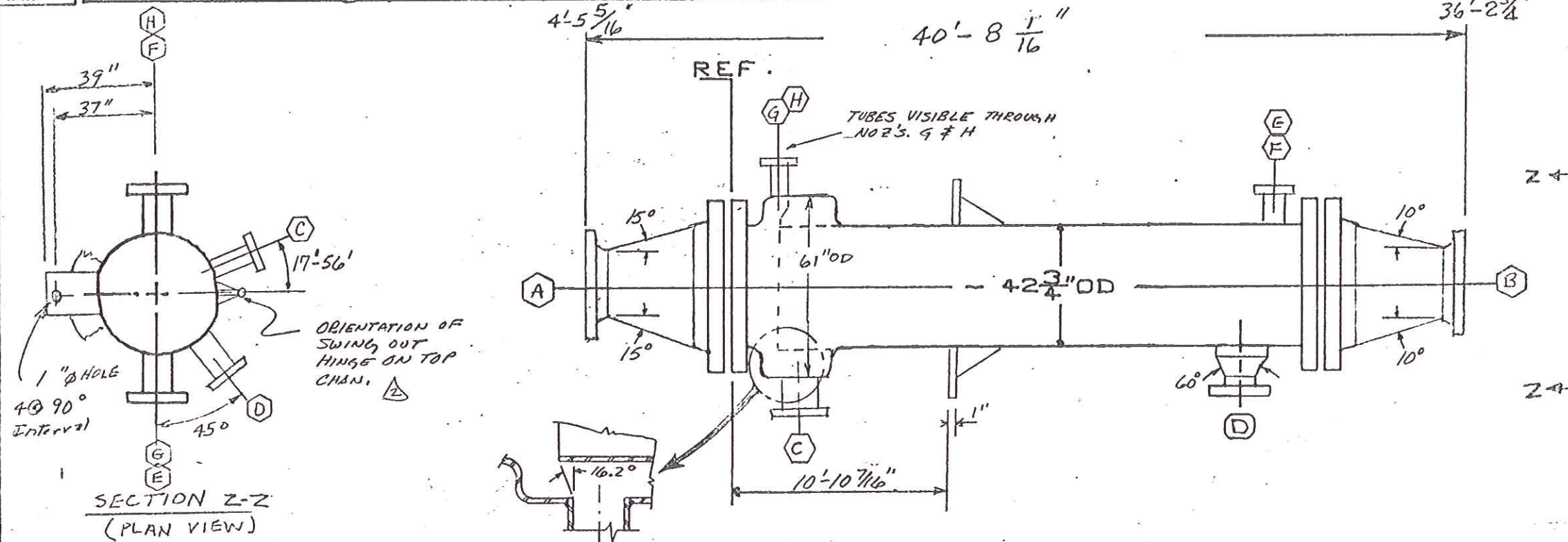


UNITED FRONT
 APPROVED FOR FABRICATION
 BY ONE DATE 4/11-79
WALTER HILL CO. LTD.
 Tulsa, Oklahoma

MARK	A	B	C	D	E/H	E/F
FLOW	OUTLET	INLET	INLET	OUTLET	AUX	AUX
SIZE	20" 150	20" 150	20" 150	20" 150	4-150	4-150
FACING	RF WN	RF WN	RF WN	RF WN	RF WN	RF WN
AUX. CORR.				(30"x20" REDUCING)		
WHEEL FACE STR. LINE			3'-3"	3'-3"	3'-0"	2'-6"
DIST. TO REF.	4'-5 5/16	36'-2 3/4	2'-4"	28'-2"	1'-1 3/4"	29'-3"

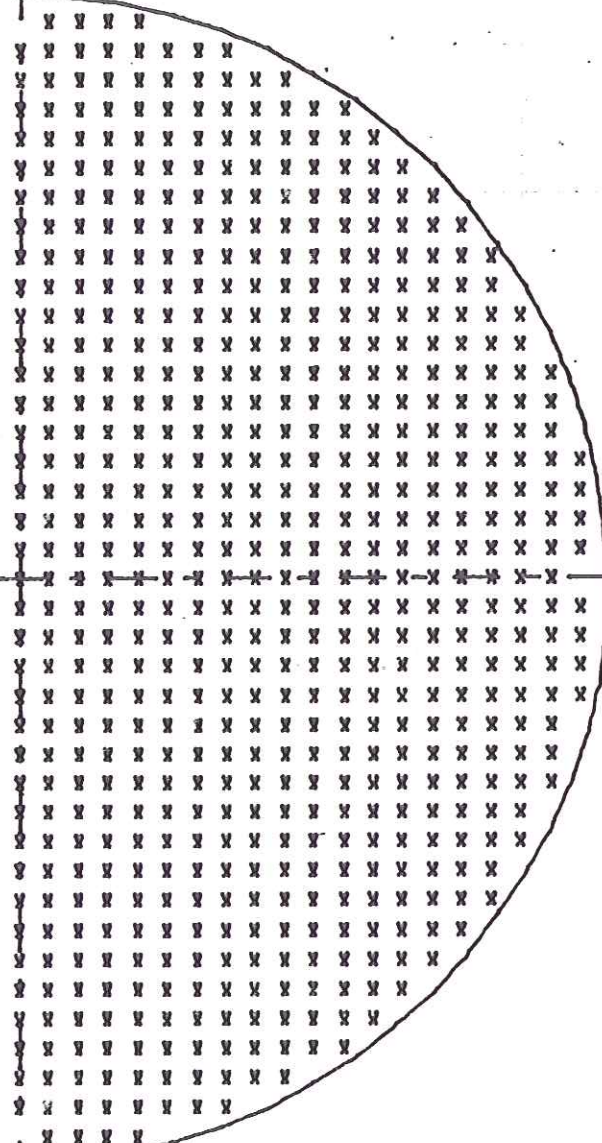


ESTIMATED WEIGHTS			SPECIFICATION FOR ONE UNIT				FABRICATION REQUIREMENTS		WANER MFG. CORP. P. O. Box 564 Tulsa, Oklahoma 74101	
DRY	31000		SHELL SIDE		TUBE SIDE		TEMA CLASS	B		
WET	54200		DESIGN PRESS	150	PSIG	150	PSIG	ASME CODE SECTION	VIII	
BUNDLE			TEST PRESS	225	PSIG	225	PSIG	ASME CODE STAMP	IS REQUIRED	
			DESIGN TEMP	400	°F	400	°F	STR. RELIEVE - NONE		
			CORR. ALLOW	0.0000		0.0000		SPOT X-RAY	SHELL	
			Nº OF PASSES	ONE		1		SPOT X-RAY	CHANNEL	
			Nº OF TUBES	197 Ø.750	ODx.	Ø65	WALL			
			TUBE MATERIAL	316SS						
			TUBE SURFACE	7062	SQ FT/SHELL					
			TUBE PITCH	1.0000	SQUARE					
			MATERIAL	316LSS						
			GASKET MAT'L.	SPIRAL 316TEFLON(FLEXITALLIC)						
			1 SET SPARE GASKETS							
REV	DATE	DESCRIPTION								
REVISIONS										

CUSTOMER	HERCOFINA	
P.O. No.	X1300013	
SCALE	NONE	DIMENSIONAL
DATE		OUTLINE
TAG No.	E-4100-3	
SERVICE	EXPANDER PREHEATER	
SIZE	42- 360 BEM	DWG
		79-1515A

104190

TIEROD



VIEW LOOKING AT SHELL
SIDE OF NO. 8 TUBE SHT.
OTCL 39

NOTES

1. TUBE PITCH 1.0000 SQ.
2. TOTAL NO. TUBES 1197

104190



MFG. CORP.

P. O. Box 564
Tulsa, Oklahoma 74101

CUST: HERCOFINA

P.O. X1300013

SCALE: NONE TUBE LAYOUT

DATE: 4-23

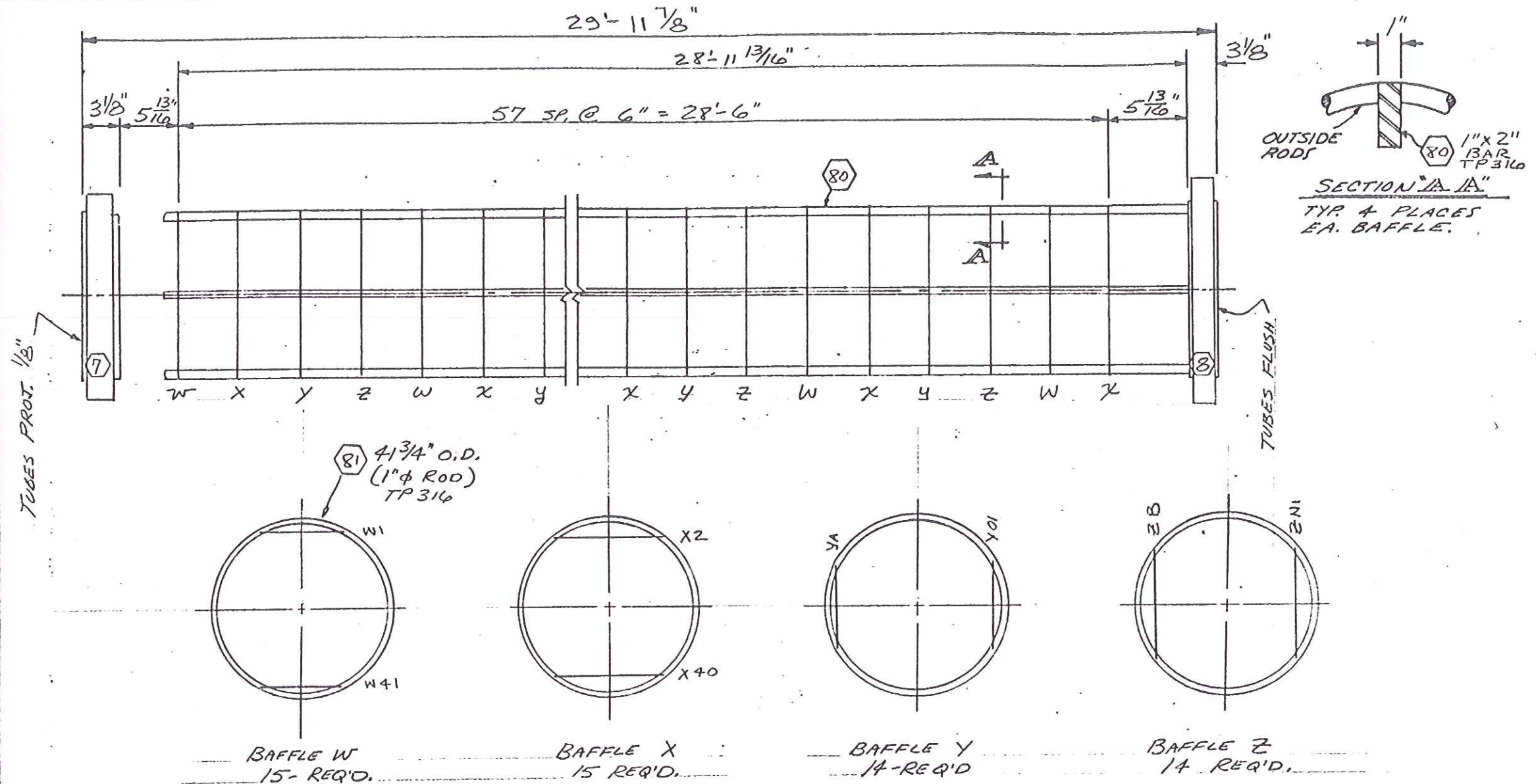
TAG: E-4100-3

DRAWN BY

CHECKED BY

DWG.

79-1515G



ALL MAT'L. TP 316

BUNDLE DETAILS		WANER MFG. CORP.		TULSA OKLAHOMA U.S.A.	
CUST. HERCOFINA	SCALE: 1"	DWN. BY	DRAWING NUMBER		REV.
P.O. NO. X1300013	DATE: 4-2-0	CHK. BY	79-1515H		
TAG NO. E-4100-3					

104190