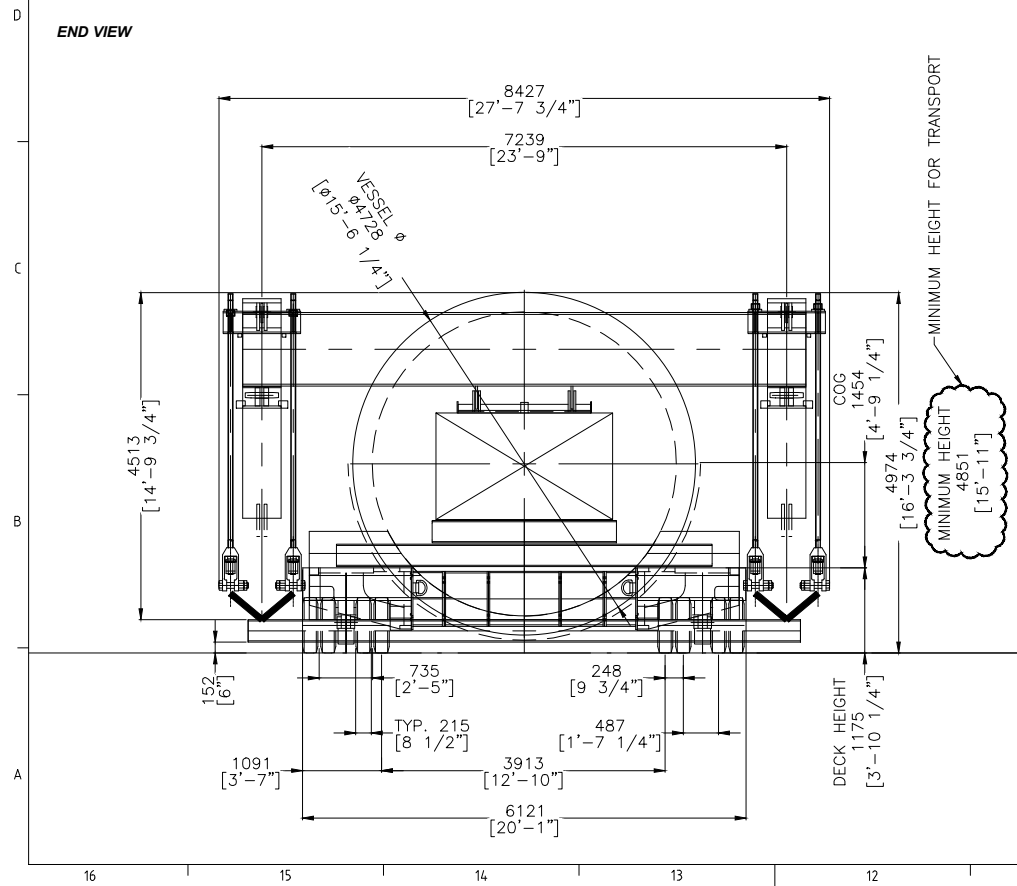
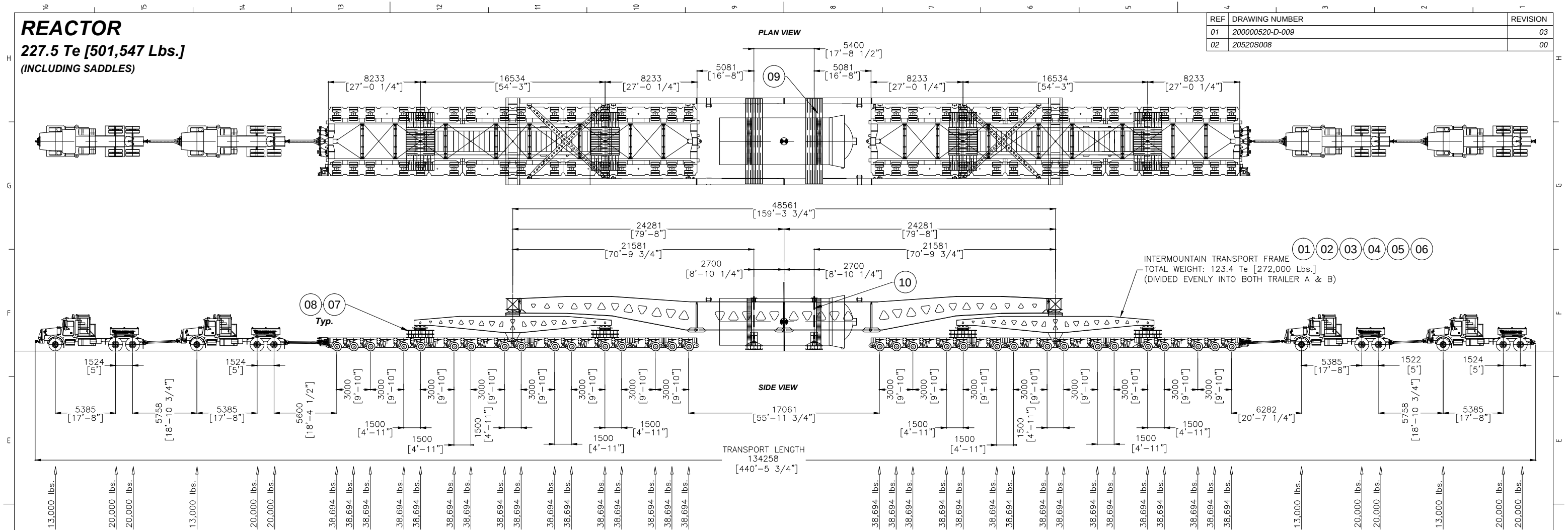


REACTOR
227.5 Te [501,547 Lbs.]
(INCLUDING SADDLES)

REF	DRAWING NUMBER	REVISION
01	200000520-D-009	03
02	20520S008	00



MATERIALS LIST						
POS	QTY	DESCRIPTION	MATERIAL/ CAPACITY	DIMENSIONS	WEIGHT (lbs / ea)	
01	4	Intermountain Frame Necks		52'-0"		
02	6	Intermountain Mid. Sections		25'-8"		
03	2	Intermountain Header Beams		25'-6"		
04	2	Intermountain Loadspreaders		57'-11"		
05	8	Intermountain Long Cross Bracing		30'-4"		
06	4	Intermountain Short Cross Bracing		21'-4"		
		Intermountain Frame Total Weight:				272000
07	2	Steel mats 8'		8'-4" x 8'-1" x 1'	4520	
08	8	Steel mats 17'		17' x 4'-1" x 1'	4610	
09	2	Hanger Steel Mats 25'		25' x 4' x 1	6454	
10	4	Auxiliary Hanger Equipment			2000	
		Grand Total:				338828

LOAD DESCRIPTION:		Reactor (Lower)	
VEHICLE DESCRIPTION:		[2x] 20' 16 L Road Style Goldhofer w_ Frame	
UNITS:	METRIC		ENGLISH
LOAD WEIGHT:	227.5 Te	501,547 lbs	
SADDLE WEIGHT:	0.0 Te	0.0 lbs	
FRAME WEIGHT:	153.7 Te	338,828 lbs	
TURNTABLE WEIGHT:	0.0 Te	0.0 lbs	
TRUCK WEIGHT:	96.2 Te	212,000 lbs	
TRAILER WEIGHT:	180.4 Te	397,810 lbs	
TOTAL WEIGHT:	657.8 Te	1,450,185 lbs	
LOAD/LINE	17.6 Te	38,694 lbs	
LOAD/ AXLE	8.8 Te	19,347 lbs	
LOAD/WHEEL	2.2 Te	4,837 lbs	
LOAD/LAT. INCH	0.3 Te	569 lbs	
GENERAL NOTES			
1	FIELD VERIFY ALL DIMENSIONS		
2	THE CLIENT IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE LOAD TO BE TRANSPORTED.		
3	THE CLIENT IS TO IDENTIFY AND CONFIRM THE SUITABILITY OF THE SUPPORT POINTS TO BE UTILIZED DURING THE TRANSPORT OF THE LOAD.		
4	SECURE CARGO ONTO THE TRAILER USING LASHING MATERIAL TO PREVENT SLIDING AND/OR TIPPING OFF THE LOAD.		
5	ALL CHAINS GRADE 70, 1/2" 11,300 lbs. CAPACITY (SINGLE) AND TIGHTENED WITH BINDERS (NOT SHOWN) 13,000 lbs. CAPACITY.		
6	3/4" PLYWOOD OR ANTI SLIP MATERIAL TO BE USED BETWEEN ALL STEEL CONTACT AREAS TO PROMOTE FRICTION.		
7	MAXIMUM WEIGHT AND DIMENSIONS SHOWN FOR REACTOR TRANSPORT		
8	SUBJECT TO FINAL ENGINEERING		

FOR PERMIT

00	First Issue	11/11/13	JLW 940062	TsD 940447
REV:	DESCRIPTION:	DATE:	DRAWN:	CHECKED:
Without authorized signatures this document is uncontrolled, not binding and for indicative purposes only.				
CLIENT: CH2M HILL / Calumet Montana Refining				
PROJECT: Great Falls, Montana				
TITLE: Permit Transport of Reactor with [2x] 20' 16 L Road Style Goldhofer w_Frame				
 MAMMOET USA 20525 FM 521, Rosharon, TX 77583 Tel. +1 (281) 369-2200 / Fax. +1 (281) 369-2178 www.mammoet.com		THIS PUBLICATION REMAINS THE PROPERTY OF THE PUBLISHER AND SHALL BE TREATED AS CONFIDENTIAL, UNLESS CONTRACTUALLY SPECIFIED OTHERWISE. NO PART OF IT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE PRIOR WRITTEN PERMISSION OF THE PUBLISHER. © 2000 MAMMOET [CQSP-02-01-01]		
SCALE: NTS	SIZE: D	DRAWING NUMBER		
SAP No:	PROJECT No:	SUB:	DOC:	PART:
7000109539	15010242	-P188	-D-	T11
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