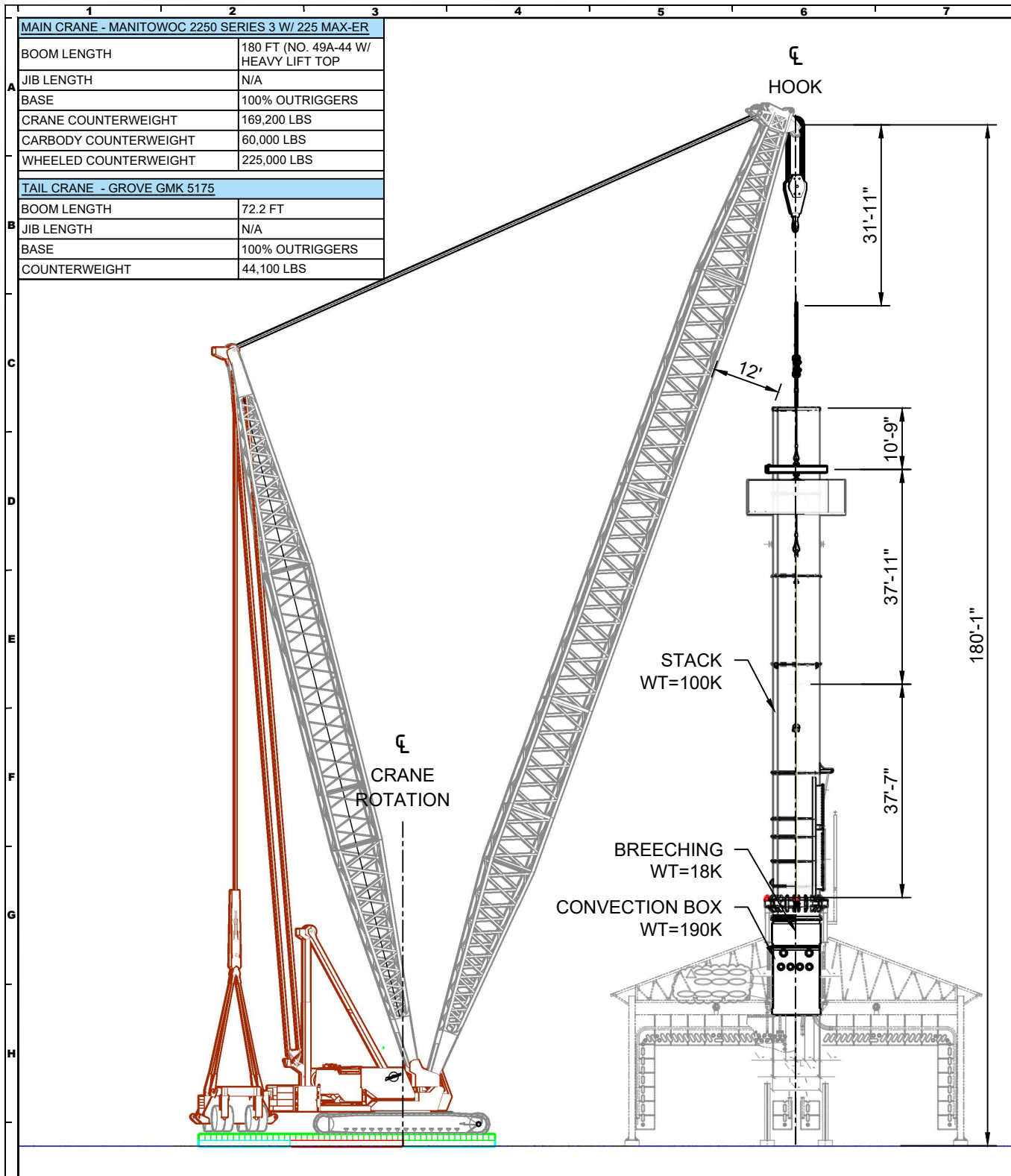
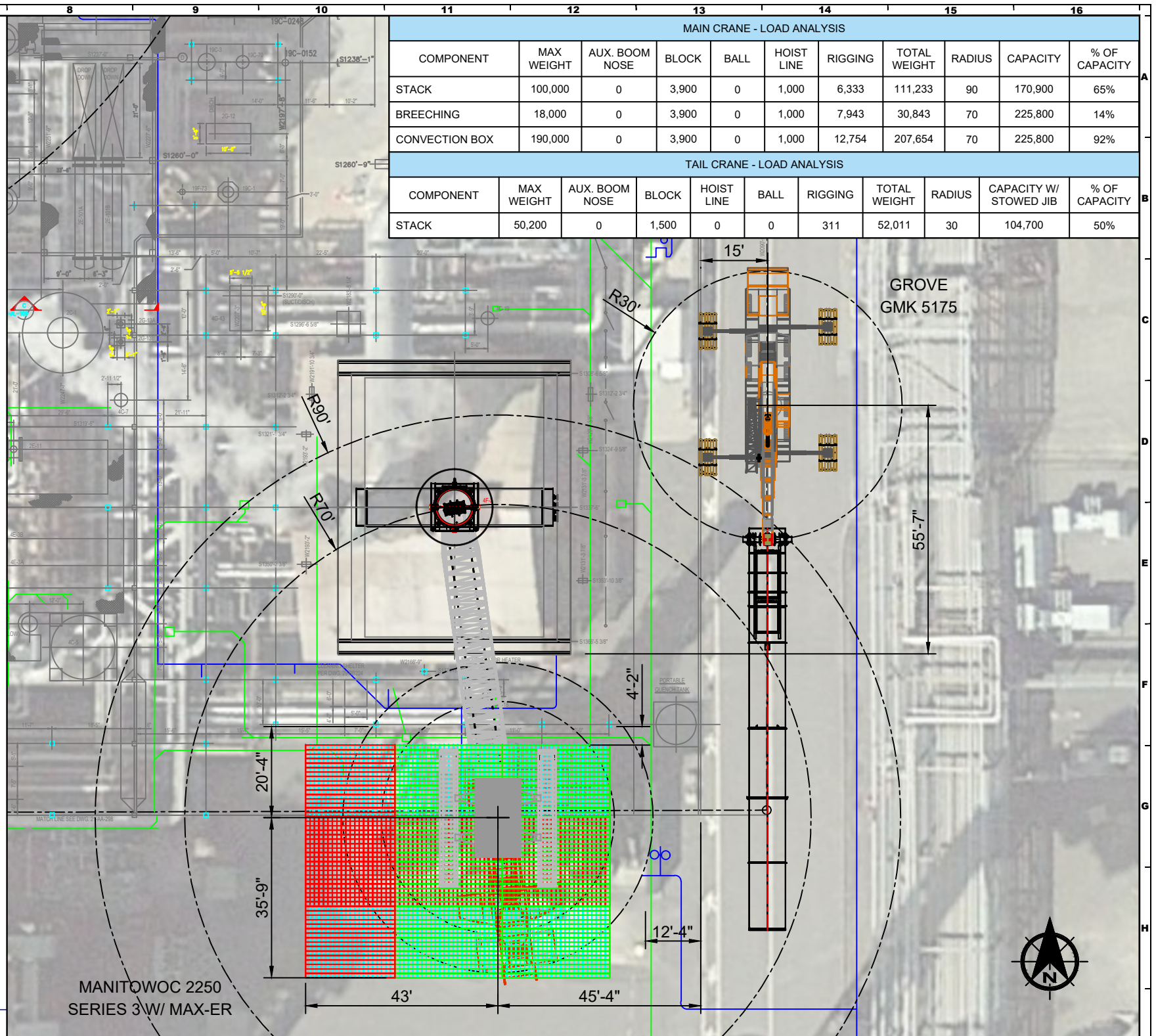




ELEVATION VIEW

LOOKING WEST, TAIL CRANE NOT SHOWN FOR CLARITY



PLAN VIEW

GENERAL NOTES:	REV #	REVISIONS	DATE	REV BY	CHK BY
1. LOAD DIMENSIONS PER TULSA HEATERS INC DRAWINGS PROVIDED BY CUSTOMER.					
2. LOAD CENTER LOCATION ASSUMED TO BE LOCATED CENTRALLY.					
3. EXISTING SUPPORT SURFACE TO BE VERIFIED BY OTHERS. MAXIMUM TRACK PRESSURE AND OUTRIGGER LOADS PROVIDED IN THE FOLLOWING SHEETS.					

OFFICES:
SEATTLE DIVISION - 1821 180TH ST S.E.
BOTHELL, WA 98031
(206) 784-1054
PORTLAND DIVISION - 5730 NE 138TH AVE
PORTLAND, OR 97320
(503) 283-3111

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TITLE:
4F-2 VACCUM PRE-FLASH HEATER REPLACEMENT

PROJECT:
PHILLIPS 66 2017 TA, FERNDALE, WA.

CUSTOMER:
PHILLIPS 66 REFINERY

DESCRIPTION:
SITE LAYOUT

DATE:
2/9/2017

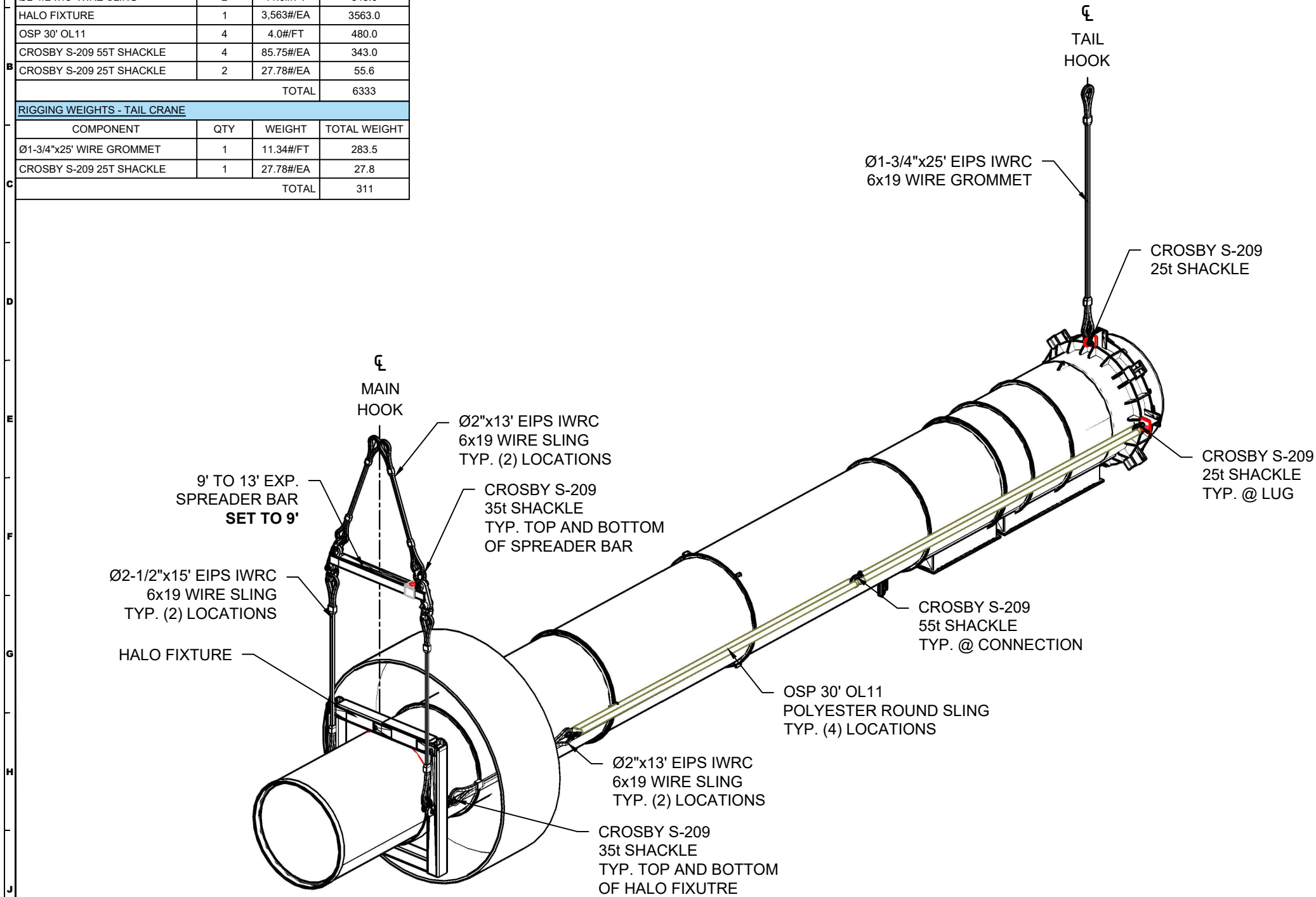
DRAWN BY:
M.A.

APPROVED BY:
M.A.

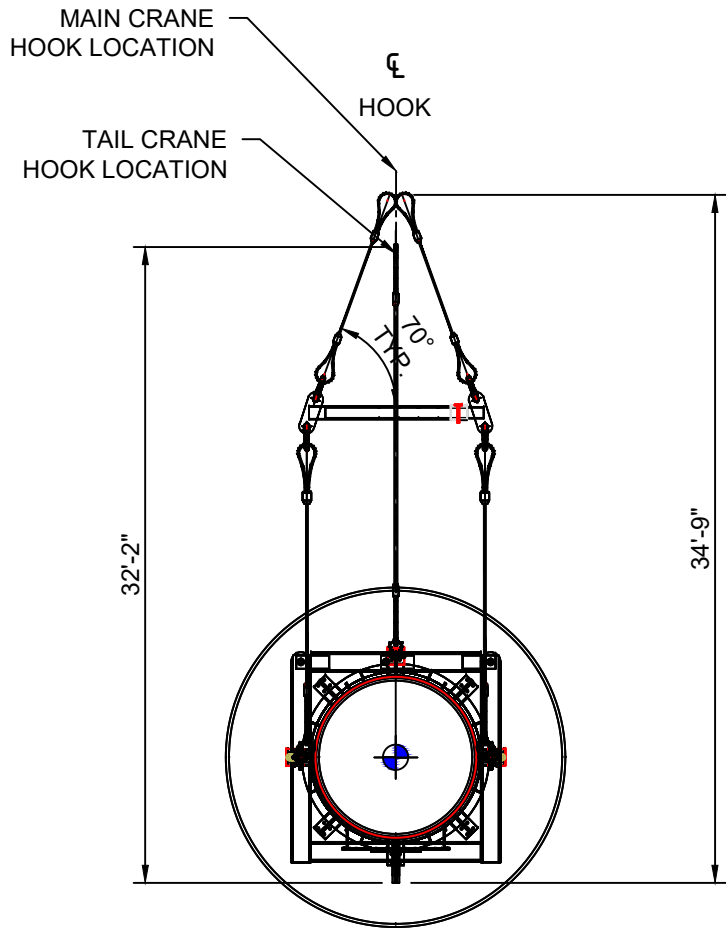
SCALE:
AS SHOWN

SHEET:
1 OF 2

RIGGING WEIGHTS - MAIN CRANE			
COMPONENT	QTY	WEIGHT	TOTAL WEIGHT
Ø2"x13' WIRE SLING	4	7.39#/FT	384.3
CROSBY S-209 35T SHACKLE	8	45.00#/EA	360.0
9' TO 13' EXP SPREADER BAR	1	799#/EA	799.0
Ø2-1/2"x15' WIRE SLING	2	11.6#/FT	348.0
HALO FIXTURE	1	3,563#/EA	3563.0
OSP 30' OL11	4	4.0#/FT	480.0
CROSBY S-209 55T SHACKLE	4	85.75#/EA	343.0
CROSBY S-209 25T SHACKLE	2	27.78#/EA	55.6
TOTAL			6333
RIGGING WEIGHTS - TAIL CRANE			
COMPONENT	QTY	WEIGHT	TOTAL WEIGHT
Ø1-3/4"x25' WIRE GROMMET	1	11.34#/FT	283.5
CROSBY S-209 25T SHACKLE	1	27.78#/EA	27.8
TOTAL			311



ISOMETRIC VIEW



FRONT VIEW

GENERAL NOTES:		REV #	REVISIONS	DATE	REV BY	CHK BY		OFFICES:		TITLE: 4F-2 VACUUM PRE-FLASH HEATER REPLACEMENT PROJECT: PHILLIPS 66 2017 TA, FERNDAL, WA. CUSTOMER: PHILLIPS 66 REFINERY DESCRIPTION: RIGGING DETAILS - EXISTING STACK	DATE:				
1. LIFTING LUG LOCATIONS AND LOAD CENTER LOCATION PROVIDED BY CUSTOMER, PER THI INC. DRAWING NO. SJ1138-SC1 REV. 1.								SEATTLE DIVISION - 1821 180TH ST S.E. BOTHELL, WA 98031 (206) 784-1054	DRAWN BY:						
2. MINIMUM RIGGING COMPONENTS DETAILED. ALTERNATIVE RIGGING COMPONENTS MAY BE USED GIVEN THEY MEET OR EXCEED THE COMPONENTS DETAILED.								PORTLAND DIVISION - 5730 NE 138TH AVE PORTLAND, OR 97320 (503) 283-3111	APPROVED BY:						
3. SLING LENGTHS DETAILED AND SHACKLE SIZE AT BASE LUGS SHALL BE USED								DISCLOSURE: THIS DOCUMENT IS THE PROPERTY OF NESS & CAMPBELL CRANE, INC. THIS DOCUMENT SHALL NOT BE REPRODUCED, COPIED, DISCLOSED TO OTHERS, OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS FURNISHED WITHOUT PRIOR WRITTEN CONSENT OF NESS & CAMPBELL CRANE, INC.	SCALE:						
									AS SHOWN						
									SHEET:						
									2 OF 2						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16