

ITEM	PART#	QTY.	UOM	DESCRIPTION
1	17089-233	1	EA	STAGE 1 SUCTION BOTTLE, 30 OD x 50 S/S, 215 MAWP
2	17089-234	1	EA	STAGE 1 DISCHARGE BOTTLE, 18 OD x 102 S/S, 215 MAWP
3	17089-231	1	EA	STAGE 1 SCRUBBER, 36 OD x 72 S/S, 215 MAWP
4	17089-601	1	EA	SPOOL FROM PROCESS GAS INLET - TO SPOOL 602
5	17089-602	1	EA	SPOOL FROM SPOOL 601 - TO V-201 INLET
6	17089-603	1	EA	SPOOL FROM V-201 OUTLET - TO V-203 INLET
7	17089-604	1	EA	SPOOL FROM V-204 OUTLET - TO SPOOL 605
8	17089-605	1	EA	SPOOL FROM SPOOL 604 - TO SPOOL 606
9	17089-606	1	EA	SPOOL FROM SPOOL 605 - TO COOLER IC-1 INLET
10	17089-639	1	EA	SPOOL FROM COOLER IC-1 OUTLET - TO SPOOL 607
11	17089-607	1	EA	SPOOL FROM SPOOL 639 - TO SPOOL 608
12	17089-608	1	EA	SPOOL FROM SPOOL 607 - TO V-206 INLET
13	17089-609	1	EA	SPOOL FROM PROPANE SUBCOOLER - TO SPOOL 608
14	GROUP	1	EA	GSKT, 8"-150CL GREY, B7M STUD 3/4"x4-1/2", 2HM NUT
15	801246	1	EA	GASKET,FLEXITALLIC (GREY),8"-150CL
16	801947	8	EA	STUD, 3/4-10TPI x 4 1/2" LG, B7M
17	700706	16	EA	HEX, NUT, 3/4" 2HM
18	GROUP	2	EA	GSKT, 10"-150CL GREY, B7M STUD 7/8"x4-1/2", 2HM NUT
19	801252	1	EA	GASKET,FLEXITALLIC (GREY),10"-150CL
20	700157	12	EA	STUD, 7/8-9TPI x 4 1/2" LG, B7
21	700793	24	EA	HEX, NUT, 7/8" 2HM
22	801252	1	EA	GASKET,FLEXITALLIC (GREY),10"-150CL
23	GROUP	8	EA	GSKT, 6"-150CL GREY, B7M STUD 3/4"x4", 2HM NUT
24	700791	1	EA	GASKET,FLEXITALLIC (GREY),6"-150CL
25	801946	8	EA	STUD, 3/4-10TPI x 4" LG, B7M
26	700706	16	EA	HEX, NUT, 3/4" 2HM
27	700058	1	EA	GASKET,FLEXITALLIC (PINK),6"-150CL
28	GROUP	1	EA	GSKT, 3"-150CL GREY, B7M STUD 5/8"x3-1/2", 2HM NUT
29	700785	1	EA	GASKET,FLEXITALLIC (GREY),3*-150CL
30	801938	4	EA	STUD, 5/8-11TPI x 3 1/2" LG, B7M
31	700695	8	EA	HEX, NUT, 5/8" 2HM
32	801246	10	EA	GASKET,FLEXITALLIC (GREY),8*-150CL
33	802564	48	EA	WASHER, LOCK, 1/2", GR8
34	700942	48	EA	CAPSCREW, HEX, 1/2-UNC x 4", GR5
35	806418	8	EA	STUD, 3/4-10TPI x 14 1/2" LG, B7M
36	700706	16	EA	HEX, NUT, 3/4" 2HM

NO.	DATE	REVISION			B	
Α	10/10/14	ISSUED FOR APPROVAL	ISSUED FOR APPROVAL			KM
0	11/05/14	ISSUED FOR FABRICATION	1			KM
1	12/30/14	ADDED STAGE #3 SUCTION PSV & CV-592				KM
2	05/11/15	AS BUILT				KA
3						
		5120 6th STREET N.E.	DRAWN BY:	KMB	DATE:	10/10/1
		CALGARY ALBERTA	A DDDOV/CD DV/		DATE.	



5120 6th STREET N.E. CALGARY, ALBERTA T2K 4W5

KDM TEL: 403, 274,6106 FAX: 403, 730,1644 www.ngc-ltd.com

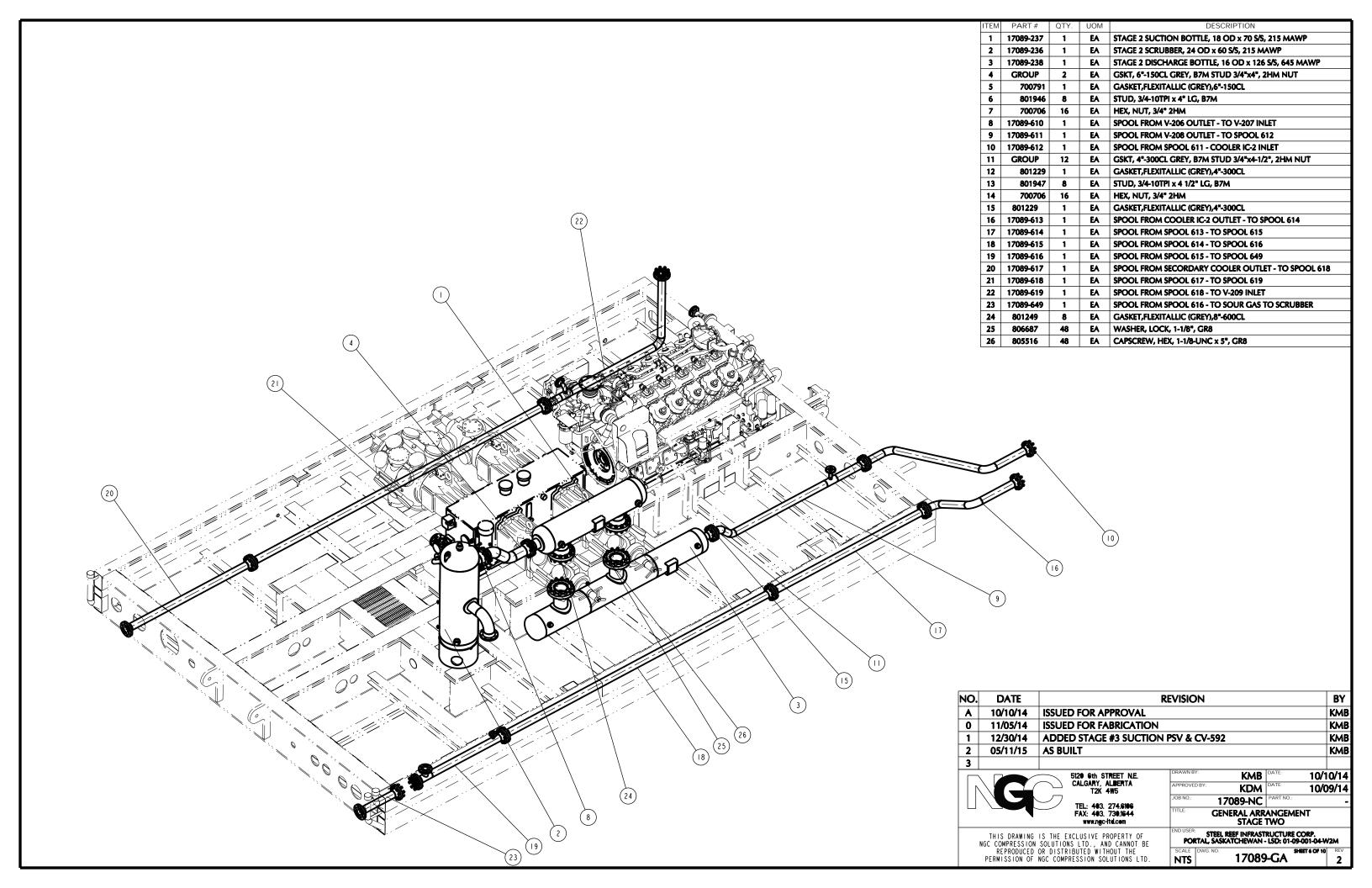
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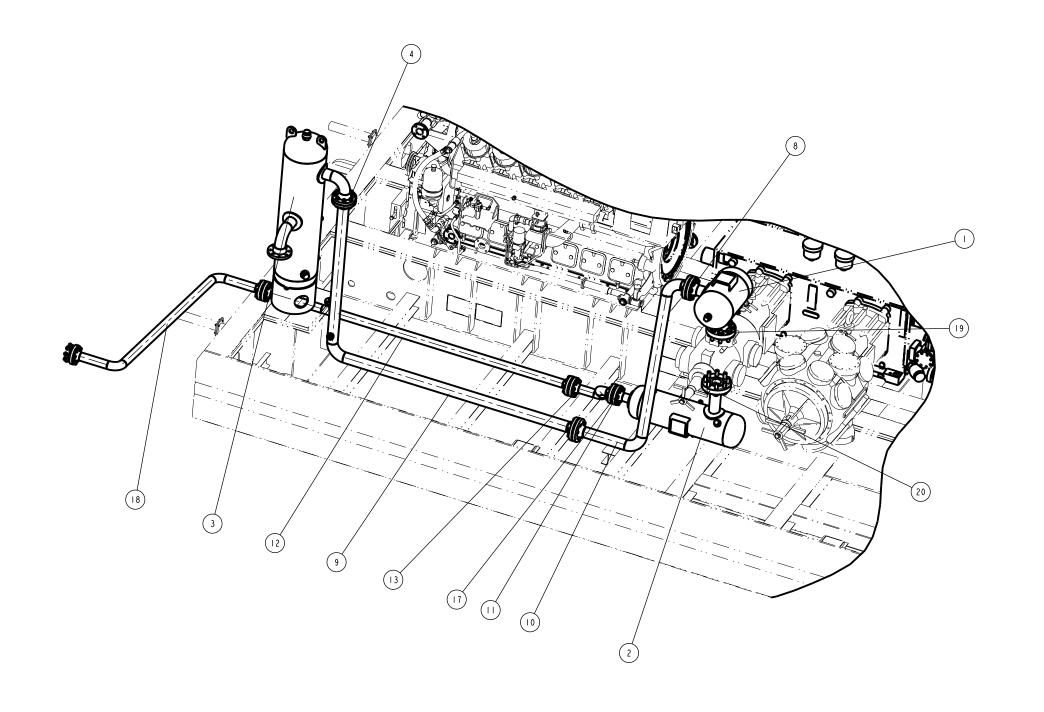
JOB NO.:	17	089-NC	PART NO	
TITLE:	GEN	IERAL ARR STAGE		MENT
END USER:	STEEL R	REEF INFRAST ATCHEWAN -	RUCTUR LSD: 01	E CORP. -09-001-04
SCALE	DWG. NO.			SHEET 5 OF
NTS		17089	-GA	

10/09/14

**AS-BUILT** 

BY: DATE:





TEM	PART#	QTY.	UOM	DESCRIPTION
1	17089-240	1	EA	STAGE 3 SUCTION BOTTLE, 16 OD x 16 S/S, 645 MAWP
2	17089-241	1	EA	STAGE 3 DISCHARGE BOTTLE, 14 OD x 39 S/S, 1287 MAWP
3	17089-239	1	EA	STAGE 3 SCRUBBER, 18 OD x 60 S/S, 645 MAWP
4	GROUP	3	EA	GSKT, 4"-300CL GREY, B7M STUD 3/4"x4-1/2", 2HM NUT
5	801229	1	EA	GASKET,FLEXITALLIC (GREY),4"-300CL
6	801947	8	EA	STUD, 3/4-10TPl x 4 1/2" LG, B7M
7	700706	16	EA	HEX, NUT, 3/4" 2HM
8	801229	2	EA	GASKET,FLEXITALLIC (GREY),4"-300CL
9	17089-620	1	EA	SPOOL FROM V-209 OUTLET - TO SPOOL 621
10	17089-621	1	EA	SPOOL FROM SPOOL 620 - TO V-210 INLET
11	17089-622	1	EA	SPOOL FROM V-211 OUTLET - TO SPOOL 623
12	17089-623	1	EA	SPOOL FROM SPOOL 622 - TO SPOOL 640
13	GROUP	4	EA	GSKT, 3"-600CL GREY, B7M STUD 3/4"x5", 2HM NUT
14	801224	1	EA	GASKET,FLEXITALLIC (GREY),3"-3/4/600CL
15	801948	8	EA	STUD, 3/4-10TPI x 5" LG, B7M
16	700706	16	EA	HEX, NUT, 3/4" 2HM
17	801224	1	EA	GASKET,FLEXITALLIC (GREY),3"-3/4/600CL
18	17089-640	1	EA	SPOOL FROM SPOOL 623 - TO COOLER AC INLET
19	805802	16	EA	CAPSCREW, HEX, 1-1/4-UNC x 5", GR8
20	802570	16	EA	WASHER, LOCK, 1-1/4", GR8

NO.	DATE	REVISION	BY
Α	10/10/14	ISSUED FOR APPROVAL	KMB
0	11/05/14	ISSUED FOR FABRICATION	KMB
1	12/30/14	ADDED STAGE #3 SUCTION PSV & CV-592	KMB
2	05/11/15	AS BUILT	KMB
3			



5120 6th STREET N.E. CALGARY, ALBERTA T2K 4W5

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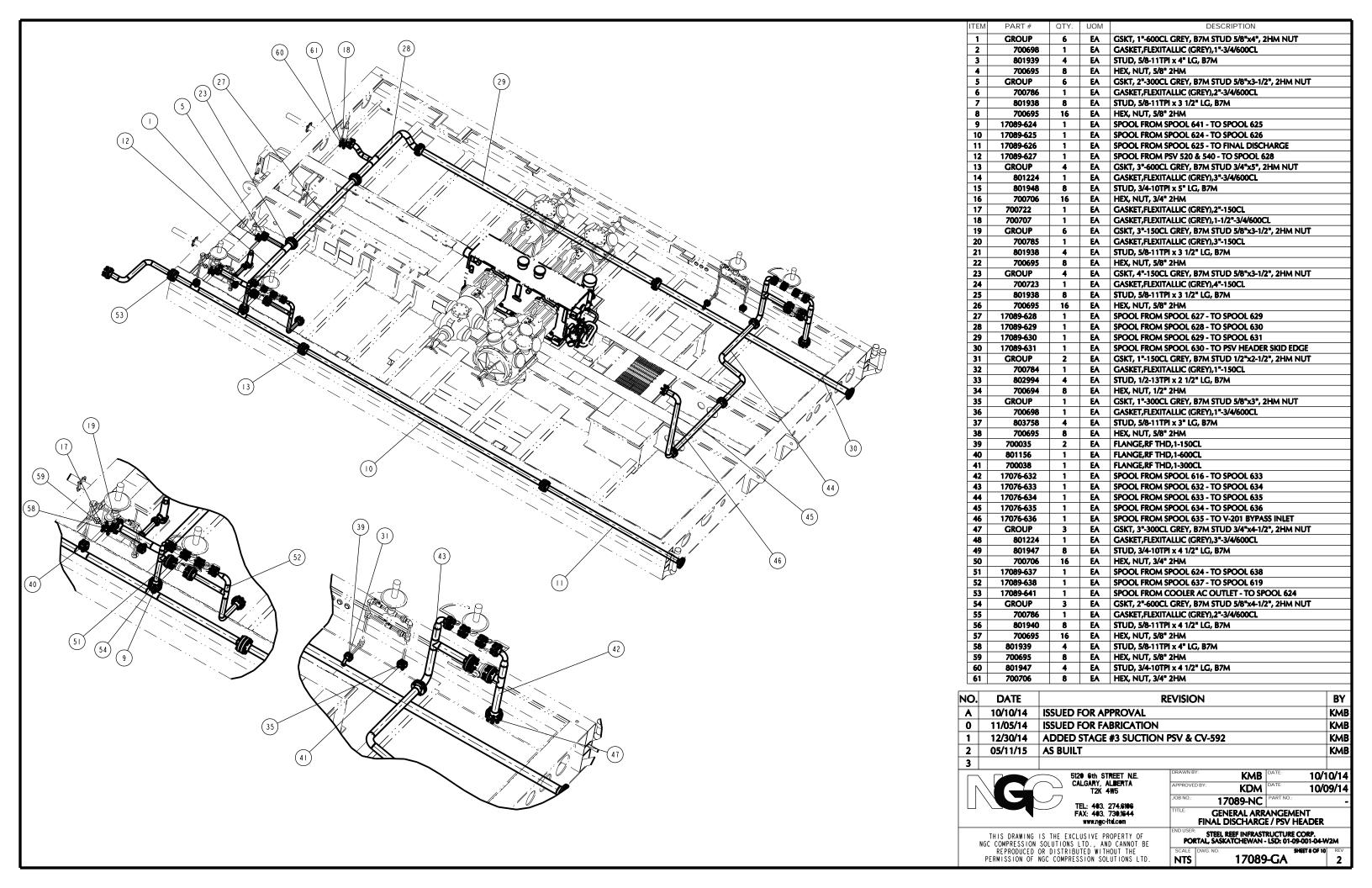
TITLE:	GENERAL ARR STAGE T		NT
JOB NO.:	1 <i>7</i> 089-NC	PART NO.:	
APPROVED BY:	KDM	DATE:	10/09/
DRAWN BY:	KMB	DATE:	10/10/

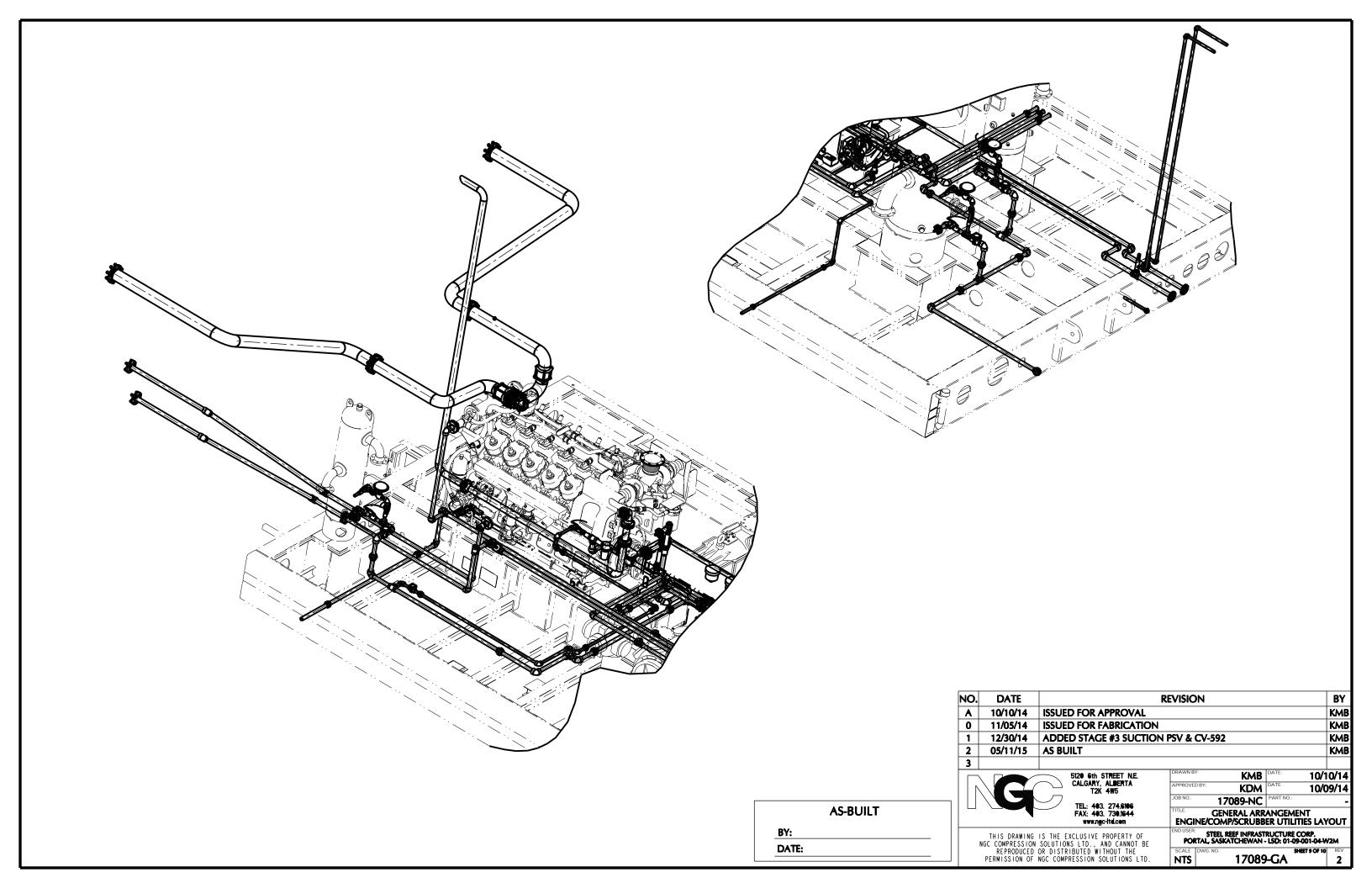
NTS

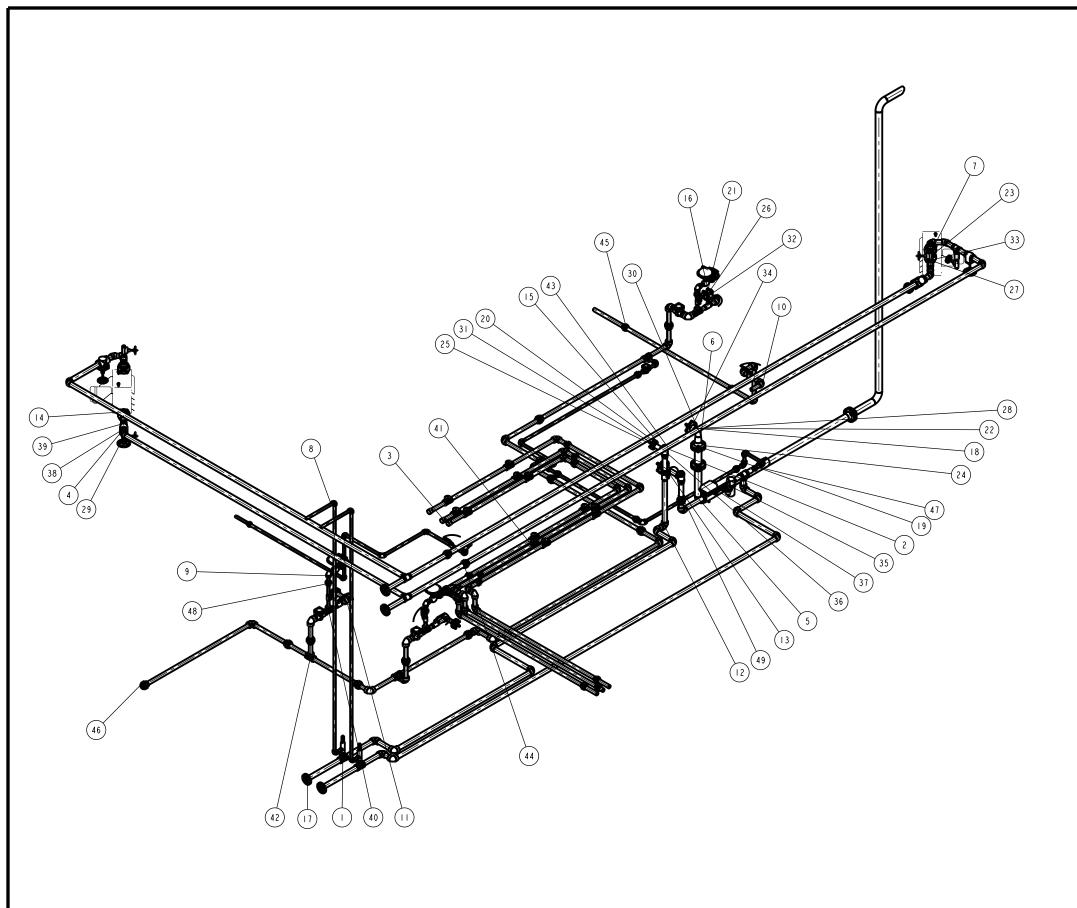
STEEL REEF INFRASTRUCTURE CORP.
PORTAL, SASKATCHEWAN - LSD; 01-09-001-04-W2M 17089-GA

	AS-BUILT	
BY:		

DATE:







BILL OF MATERIALS						
TEM	QTY.	PART #	DESCRIPTION	MATERIAL	COMMENTS	
	_					
1	2	800027	BUSHING, REDUCING HEX, 2" x 1"-3000/6000CL	SA105N		
2	2	800026	BUSHING, REDUCING HEX, 2" x 3/4"-3000/6000CL	SA105N		
3	3	700003	CAP, THD, 1-1/2"-3000CL	SA105N		
4	4	807200	ELBOW, 45 SW, 2-3000CL	SA105N		
5	3	800348	ELBOW, 90 LR, 3", STD	SA234-WPB		
6	1	800398	ELBOW, 90 SR, 2-1/2", STD	SA234-WPB		
7	4	805424	ELBOW, 90 SW, 2-3000CL	SA105N		
8	10	700027	ELBOW, 90 THD, 1*-3000CL	SA105N		
9	15	800450	ELBOW, 90 THD, 1"-6000CL	SA105N		
10	19	700028	ELBOW, 90 THD, 1-1/2"-3000CL	SA105N		
11	16	800452	ELBOW, 90 THD, 1-1/2"-6000CL	SA105N		
12	14	700029	ELBOW, 90 THD, 2-3000CL	SA105N		
13	1	806158	FLANGE,RF RED THD,3-150CL x 2 NPT	SA105N		
14	6	805307	FLANGE,RF SW,2-150CL XH	SA105N		
15	3	700036	FLANGE,RF THD,1-1/2-150CL	\$A105N		
16	1	801139	FLANGE,RF THD,1-1/2-300CL	SA105N		
17	6	700037	FLANGE,RF THD,2-150CL	SA105N		
18	1	800467	FLANGE,RF WN,2-1/2-150CL STD	SA105N		
19	4	800468	FLANGE,RF WN,3-150CL STD	\$A105N		
20	3	700697	GASKET,FLEXITALLIC (GREY),1-1/2"-150CL	316L/FLEXICARB		
21	1	700707	GASKET,FLEXITALLIC (GREY),1-1/2"-3/4/600CL	316L/FLEXICARB		
22	1	700789	GASKET,FLEXITALLIC (GREY),2-1/2"-150CL	316L/FLEXICARB		
23	4	700722	GASKET,FLEXITALLIC (GREY),2"-150CL	316L/FLEXICARB		
24	4	700785	GASKET,FLEXITALLIC (GREY),3"-150CL	316L/FLEXICARB		
25	24	700694	HEX, NUT, 1/2" 2HM	2HM		
26	8	700706	HEX, NUT, 3/4" 2HM	2HM		
27	32	700132	HEX, NUT, 5/8" 2H	2H		
28	40	700695	HEX, NUT, 5/8" 2HM	2HM		
29	4	700140	PLUG, THD HEX, 1"-3000/6000CL	\$A105N		
30	1	801681	REDUCER,CONC. BW,3" x 2-1/2",STD	SA234-WPB		
31	12	803756	STUD, 1/2-13TPI x 3" LG, B7M	B7M		
32	4	802995	STUD, 3/4-10TPl x 3 1/2" LG, B7M	B7M		
33	16	700147	STUD, 5/8-11TPl x 3 1/2" LG, B7	B7		
34	20	801938	STUD, 5/8-11TPl x 3 1/2" LG, B7M	B7M		
35	1	700165	SWAGE NIPPLE, CONC., 1- 1/2" x 1"	SA105N		
36	2	700168	SWAGE NIPPLE, CONC., 2" x 1-1/2"	SA105N		
37	2	700787	SWAGE NIPPLE, CONC., 2" x 1"	SA105N		
38	4	807201	SWAGE NIPPLE, CONC., 2 x 1" SWAGE NIPPLE, CONC.PLE/TSE, 2" x 1"	SA105N		
			<u> </u>			
39 40	4	805956 700185	TEE, SW, 2"-3000CL TEE, THD, 1-1/2" x 1"-3000CL	SA105N		
40		700185		SA105N		
41	12	700186	TEE, THD, 1-1/2" x 1/2"-3000CL	SA105N		
42	2	802421	TEE, THD, 1-1/2"-6000CL	SA105N		
43	5	700187	TEE, THD, 2"-3000CL	SA105N		
44	2	805957	UNION, SW, 2"-3000CL	SA105N		
45	11	700191	UNION, THD, 1-1/2"-3000CL	SA105		
46	10	802442	UNION, THD, 1-1/2"-6000CL	SA105		
47	3	700190	UNION, THD, 1"-3000CL	SA105		
48	10	802440	UNION, THD, 1"-6000CL	SA105		
49	1	700192	UNION, THD, 2"-3000CL	SA105		

NO.	DATE	REVISION	BY		
		132 132 2 1			
A	10/10/14	ISSUED FOR APPROVAL	KMB		
0	11/05/14	ISSUED FOR FABRICATION	KMB		
1	1 12/30/14 ADDED STAGE #3 SUCTION PSV & CV-592				
2	2 05/11/15 AS BUILT				
3					
		5120 6th STREET NE.	10/14		



5120 6th STREET N.E. CALGARY, ALBERTA T2K 4W5

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KDM 10/09/14 17089-NC PART NO:
GENERAL ARRANGEMENT
(UTILITIES MATERIALS) STEEL REEF INFRASTRUCTURE CORP.
PORTAL, SASKATCHEWAN - LSD\_DRW:1 17089-GA NTS

**AS-BUILT** 

BY:

DATE: