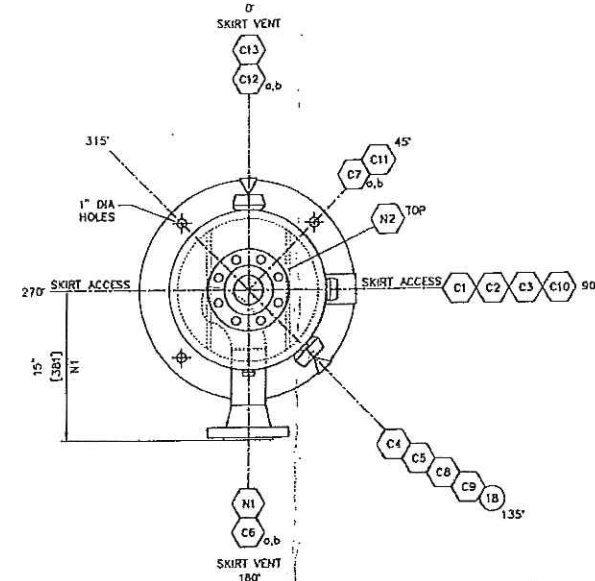
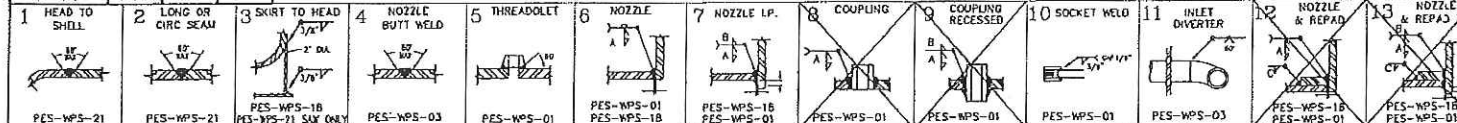
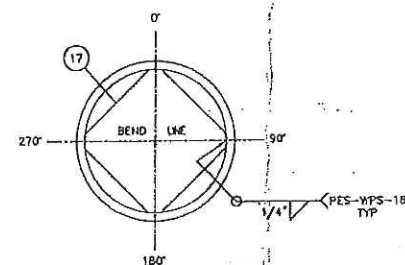


ELEVATION  
NOT TRUE ORIENTATION

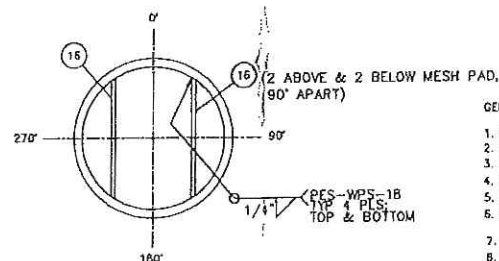
NOZZLE	A	B	C
N1	.375"	.625"	—
N2	.500"	—	—
C1-C13	.375"	—	—



ORIENTATION VIEW  
TRUE ORIENTATION



### FLOAT SHIELD DETAIL




MESH PAD SUPPORT DETAIL  
(TYP TOP & BOTTOM OF MIXTEx) 1

GENERAL NOTES:

1. VESSEL VOLUME = 2 CuFt (0.26CuM)
2. VESSEL WGTCH EMPTY = 1200 lbs (544 kg)
3. VESSEL WGTCH FULL OF WATER = 4775 lbs (805 kg)
4. APPROVED WELDING PROCEDURE 1863.2
5. REGISTERED QUALITY CONTROL PROGRAM AQP 1084(S).
6. SURFACE PREP.- MECHANICAL CLEAN  
1 5/C GREY PRIMER
7. RADIUS ALL OPENINGS 3mm (.125")
8. FOR NON PRESSURE RETAINING WELDS USE PES-WPS-18
9. ALL WELD GAPS 3/32" MINIMUM
10. ALL BOLT HOLES TO STRADDLE CENTRE LINES - UNLESS OTHERWISE NOTED.
11. ACCEPTABLE MATERIAL SUBSTITUTIONS :  
SA-350-LF2 CL1 FOR SA-105N SA-333-S FOR SA-106B (NOZZLE NECKS ONLY)  
SA-420-WPL6 FOR SA-234-WPB SA-516-70 FOR SA-36/44W
12. FABRICATION TOLERANCES SHALL BE AS PER PLATINUM  
"STANDARD FABRICATION TOLERANCES" UNLESS OTHERWISE NOTED
13. OPENINGS FOR 2" TOL NOT TO EXCEED 2 1/8" Ø
14. USE PES-WPS-01 FOR ALL TACK WELDS
15. DESIGN PRESSURE EQUALS WAMP.
16. ALL BEVEL ANGLES +/- 15°

## BILL OF MATERIAL

ITEM	REQ'D	DESCRIPTION	REMARKS
1	1	SHELL, 16" SCH 80 SULS PIPE .844"WT x 90"LG	SA-106-C
2	2	HEAD, 16"OD, .875"NDM (.8125"MIN) 2:1SE 2"SF (HOT FORMED)	SA-516-70N
3	1	SKIRT, 16" SCH STD SULS PIPE 3/8"WT x 16" LG TRIM TO SUIT	SA-106B
4	1	BASE PLATE, 1/2" PLATE x 22"OD x 14" ID	SA-36/44W
5	2	FLANGE, 3" 600J RFWD SCH XXX BORE	N1, N2 SA-105N
6	2	PIPE, 3" SCH XXX SULS x 6" LG TRIM TO SUIT	N1, N2 SA-106B
7	1	PIPE, 2" SCH 160 SULS x 7" LG TRIM TO SUIT BxTHRD	C3 SA-106B
8	1	PIPE, 2" SCH 160 SULS x 6 1/2" LG TRIM TO SUIT	C3 SA-106B
9	1	WELD ELBOW, 2" SCH 160 90 DEG L.R.	C3 SA-234-WPB
10	1	CPLG, 2"-3000J THRD x SW	C3 SA-105N
11	5	T.O.L 2"-3000J NPT ON 16" RUN	C4, C5, C10,C12a/b SA-105N
12	4	T.O.L 1"-3000J NPT ON 16" RUN	C1, C2, C11, C13 SA-105N
13	5	T.O.L 3/4"-3000J NPT ON 16" RUN	C6A/B, C7A/B, C9 SA-105N
14	1	T.O.L 1/2"-3000J NPT ON 16" RUN	C8 SA-105N
15	1	WESH PAD, 14" D.O. 4"THK 9FT3 DENSITY	304 SS
16	4	FLAT BAR, 3/8"THK x 1"W x 12 1/8"LG (2) TOP & (2) BOTTOM	SA-36/44W
17	1	FLOAT SHIELD, 1/4" PLATE x 11 1/2" SO. TRIM & BEND TO SUIT	SA-36/44W
18	1	PESC NAME PLATE & BRACKET	SA-516-70N/SS
19	2	HEX HEAD PLUG, 2" NPT	C12a/b SA-105N
20	1	WELD ELBOW, 3" SCH STD 90 DEG L.R.	N1 SA-234-WPB
21	2	FLATENED EXPANDED METAL, MISTEX GRID 13 3/4"OD 16F	C5

APPROVED FOR  
CONSTRUCTION  
DATE: NOV 25 2010  
SIGNED:   
REVISED  
DESTROY ALL PREVIOUS COPIES

### NOZZLE SCHEDULE


MARK	IN	QTY	RATING	TYPE	DESCRIPTION	ITEM No.	NT. PROJ	EX. PROJ.	WELD
N1	3" 89	1	600	R/HM	INLET	5,6,20	1*	SHOWN	4,7,11
N2	3" 89	1	600	R/HM	OUTLET	5,6	D	SHOWN	4,6
C1	1" 33	1	3000	TOL	HC OUT	12		SET-ON	5
C2	1" 33	1	3000	TOL	WATER OUT	12		SET-ON	5
C3	2" 60	1	3000	CP/G	DRAIN	7,6,9,10	FLUSH	SHOWN	4,6,10
C4	2" 60	1	3000	TOL	HC LEVEL CONTROL	11		SET-ON	5
C5	2" 60	1	3000	TOL	WATER LEVEL CONTROL	11		SET-ON	5
C6a/b	3/4" 27	2	3000	TOL	HC LEVEL GAUGE	13		SET-ON	5
C7a/b	3/4" 27	2	3000	TOL	WATER LEVEL GAUGE	13		SET-ON	5
C8	1/2" 21	1	3000	TOL	PI	14		SET-ON	5
C9	3/4" 27	1	3000	TOL	TI	13		SET-ON	5
C10	2" 60	1	3000	TOL	HSD	11		SET-ON	5
C11	1" 33	1	3000	TOL	PSV	12		SET-ON	5
C12a/b	2" 60	2	3000	TOL	INSPECTION c/w PLUG	11,19		SET-ON	5
C13	1" 33	1	3000	TOL	AUX CONDENSATE OUT	12		SET-ON	5

## DESIGN DATA

Design Press. 1440 Psig (9928 kPag)	Serial No. 18948-01
Design Temp. 130°F (54°C)	C.R.N. No. R5728.213
Corrosion All. 0.125" (3.2mm)	Location ALBERTA, BC, SK
Test Press. 1872 Psig (12908 kPag)	ASME Code: SECTION VIII, DIV. 1 2007 ED. 2009 ADD.
X-Ray UW-11(a) RTI	Paint Spec. SEE NOTE 6
Stress Relief 1150°F FOR 60 MINUTES	
Min. Metal Design Temp. -20°F to 1440 Psig -28.8°C to 9928 kPag	Exempt From Impact Testing As Per ASME Code
	UG-20(f) 1-5
DESIGN / APP'D BD 07/08/30	
DRAWN BY SW 07/08/30	
CHK'D BY BD 07/08/30	
SCALE 1 1/2" = 1'-0"	

PLATINUM STOCK

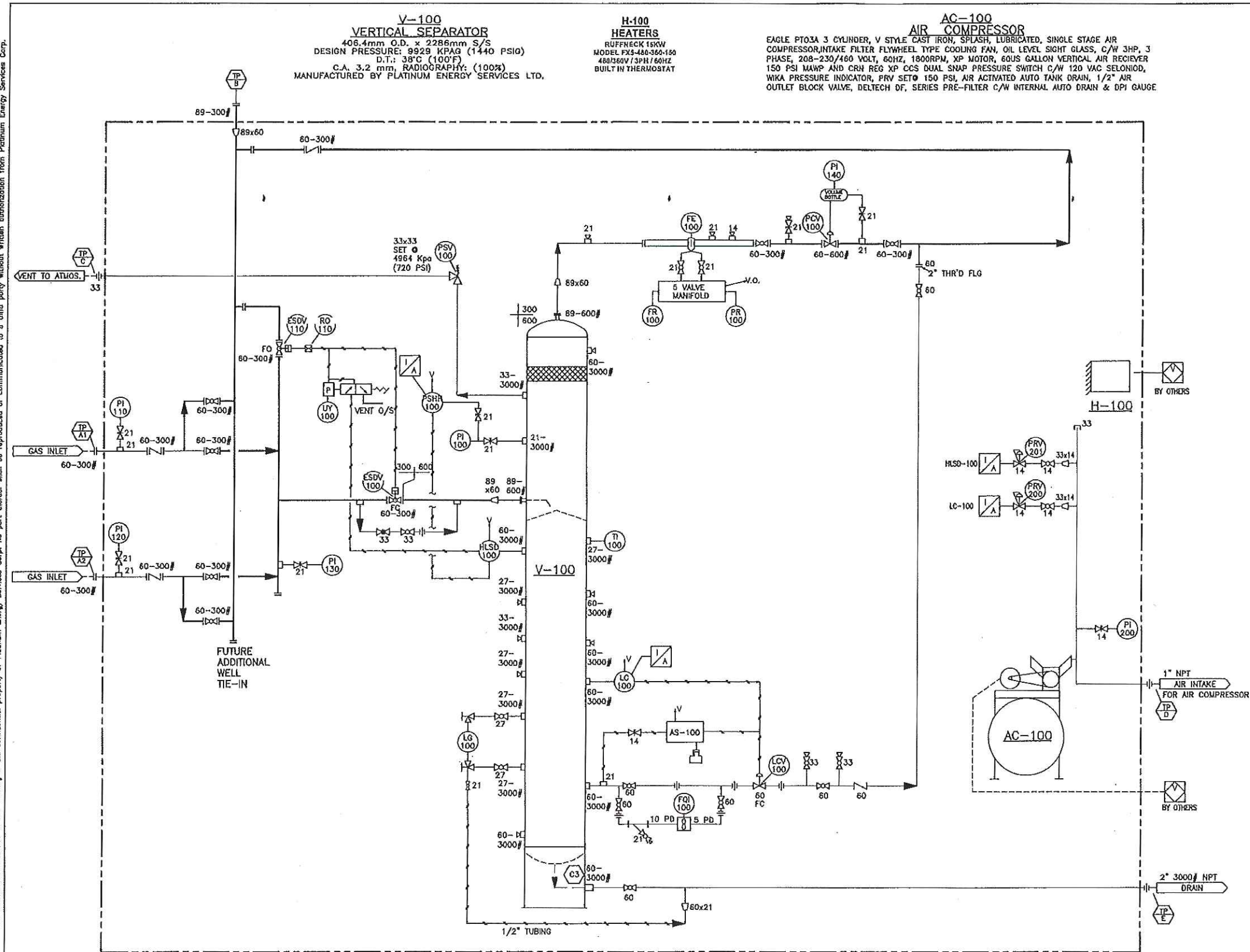
TITLE	16" OD (SCH 80) x 7'-6" S/S 1440 PSI 3 PHASE SWEET SERVICE SEPARATOR
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JOB NUMBER	18948 	DRAWING NUMBER	18948-VES-01
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REV



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INSTRUMENT AND EQUIPMENT LIST		
ITEM	QTY	DESCRIPTION
FE-100	1	2"-300# RF SR METER RUN, SCH 80, AGA 2000 CONFIGURATION, C/W ONE(1) 3/4" AND ONE(1) 6000# TOL DOWNSTREAM CONNECTIONS, FLANGED ENDS, SOUR SERVICE
PR/FR-100	1	BARTON REMANUFACTURED 202E, 2-PEN RECORDER, 0-100" WC, 0-1000 PSI STATIC, 24 HOUR AND 7 DAY COMBINATION CLOCK C/W INK AND PEN, NACE PRESSURE BOUNDARY C/W 5 VALVE CS MANIFOLD
PI-100/110/120/130	4	WESTERN OR EQUAL PRESSURE GAUGE, 1/2" BM, LF, DS, 4 1/2" DIAL, 0-1000 PSIG RANGE, 316SS INTERNALS.
PI-140	1	WESTERN OR EQUAL PRESSURE GAUGE, 1/4" BM, LF, DS, 2 1/2" DIAL, 0-1000 PSIG RANGE, 316SS INTERNALS, C/W VOLUME BOTTLE.
PI-200	1	WESTERN OR EQUAL PRESSURE GAUGE, 1/4" BM, LF, DS, 2 1/2" DIAL, 0-300 PSIG RANGE.
TI-100	1	WESTERN OR EQUAL, TEMP. INDICATOR, -40 - 160°F, DS, 3" DIAL, 4" STEM C/W 1/2" FNPT X 3/4" MNPT 316SS THERMAL WELL
LG-100	1	QUALITY MODEL 14-T-20 TRANSPARENT LEVEL GAUGE (6 3/4" VISIBLE) C/W 146 GAUGE COCKS OR EQUAL, SOUR.
LC-100	1	FISHER MODEL L2 LEVEL CONTROLLER, 2" NPT C/W 12" LONG PCV VERTICAL DISPLACER.
HLSD-100	1	SOR MODEL 15300-G2A-C-JO-PS PNEUMATIC LEVEL SWITCH, 2" NPT, SOUR.
PCV-100	1	2" 600# RF SURFLO BACK PRESSURE CONTROL VALVE MAMP 1440 PSI SOUR SERVICE WAFER STYLE 5 3/8" F/F, PART No. SF10V-C-75-S83-X-2.6
FQI-100	1	2" X 1" EZ IN TURBINE METER C/W MAGNETIC PICK-UP & TOTALIZER FOR LOCAL DISPLAY ONLY HUFLO C/W MC1 TOTALIZER.
PRV-200/201	2	FISHER 67CR PRESSURE REGULATORS, 1/4" NPT, 0-35 PSIG
LCV-100	1	FISHER 2" NPT TYPE "D3" CONTROL VALVE, 1" TRIM, FAIL CLOSED.
PSV-100	1	TAYLOR MODEL 8200 PRESSURE RELIEF VALVE, SOUR TRIM, 1" MNPT X 1" FNPT, SET@ 720 PSIG.
ESDV-100	1	2" 300# RF FISHER 1052-V200 BALL VALVE C/W SIZE 20 ACTUATOR FAIL CLOSED SOUR SERVICE.
ESDV-110	1	2" 300# RF FISHER 1052-V200 BALL VALVE C/W SIZE 20 ACTUATOR FAIL OPEN SOUR SERVICE.
UY-100	1	AMOT 4057 3-WAY SWITCHING VALVE, TYPE CP
PSHH-100	1	CVS 7970 HIGH PRESSURE SHUT DOWN
RO-100	1	2185L003 0.125 DIA CV2 47 AMOT ORIFICE
AS-100	1	FLINT PSI, SAMPLER SOUR SERVICE 720 PSI
VALVE LIST		
6	2" 300# RF R.P. BALL VALVES KF SOUR SERVICE	
3	2" 300# RF CHECK VALVES WHEATLEY SOUR SERVICE	
6	2" 2000# NPT NAVCO C1 SST R.P. BALL VALVES	
3	1" 2000# NPT NAVCO C1 SST R.P. BALL VALVES	
2	3/4" 2000# NPT NAVCO C1 SST R.P. BALL VALVES	
4	1/2" 2000# NPT NAVCO C1 SST R.P. BALL VALVES	
2	1/4" 2000# NPT NAVCO H1 SST R.P. BALL VALVES	
6	1/2" 6000# NPT NEEDLE VALVES WGI, 316	
1	1/4" 6000# NPT NEEDLE VALVES WGI, SST SAMPLER	
1	2" 2000# THREADED CHECK VALVE WHEATLEY SOUR SERVICE	
1	1" CLASS 800 SOUR GLOBE	
1	1/4" 6000# NEEDLE VALVE WGI, CARBON STEEL (INST. AIR)	

- NOTES:
1. ALL THREADED PIPE SCH XH SA-106-B.
  2. ALL THREADED FITTINGS 3000#, SA-105H.
  3. ALL TUBING 1/4" & 3/8", 316SST.
  4. ALL TUBE FITTINGS 316SS, PARKER A-LOK OR EQUAL.

19245-SKD-01	STRUCTURAL STEEL - PLAN	1	AS BUILT	LL	11/02/28	BX	RWS
19245-GA-01	GENERAL ARRANGEMENT-PLAN	0	ISSUED FOR CONSTRUCTION	SW	11/01/10	BX	RWS
REFERENCE DRAWINGS		REV	DESCRIPTION	BY	DATE	CHK'D	APP'D

ENGINEER'S STAMP

DRAWN BY SW 11/01/10  
CHK'D BY BX 11/01/10  
APP'D BY RWS 11/01/10  
CADD REF 19245-PID-01.dwg  
SCALE NTS  
**PLATINUM**  
Energy Services Corp.  
CALGARY, ALBERTA

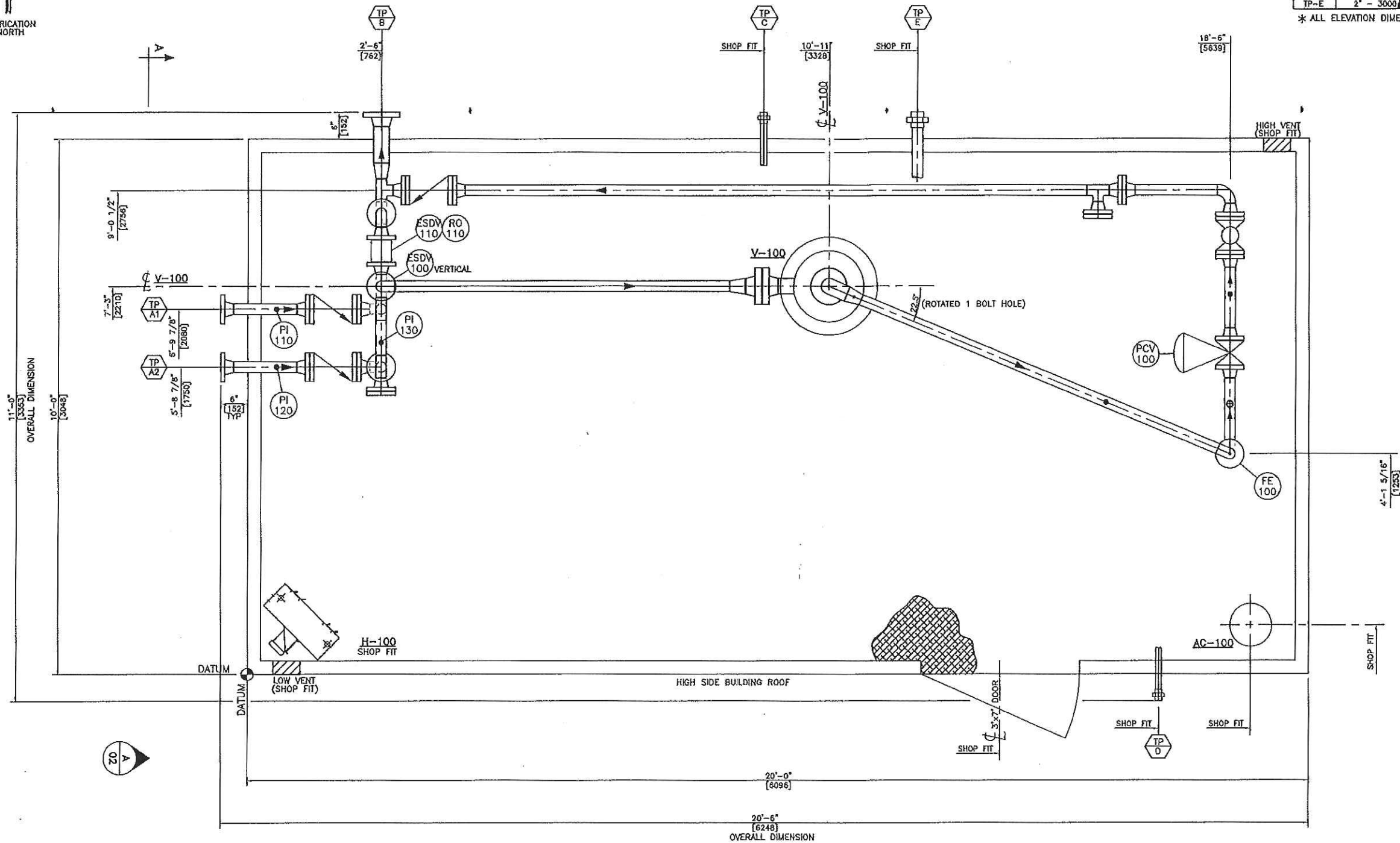
CLIENT  
CANADIAN NATURAL RESOURCES LTD.

TITLE  
16" x 7'-6" 3 PHASE 720 PSI  
PIPING & INSTRUMENTATION DIAGRAM

JOB NO. 19245  
DRAWING NO. 19245-PID-01  
REV 1



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PLAN VIEW

TIE-IN SCHEDULE			
MARK	SIZE / RATING	ELEVATION	DESCRIPTION
TP-A1	2" - 300#	25 1/2"	GAS INLET
TP-A2	2" - 300#	25 1/2"	GAS INLET
TP-B	3" - 300#	6"	GAS OUTLET
TP-C	1" - 3000#	SHOP FIT	SEPARATOR PSY OUTLET
TP-D	1" - 3000#	SHOP FIT	INTAKE FOR AIR COMPRESSOR
TP-E	2" - 3000#	4"	DRAIN

\* ALL ELEVATION DIMENSIONS ARE FROM TOP OF CHECKER PL.

- NOTES:
1. PIPING CODE TO ANSI B31.3 (CURRENT EDITION).
  2. DIMENSIONS ARE IN IMPERIAL (METRIC).
  3. ELEVATION DATUM = T.O. CHK'D PL.
  4. TAIL DIMENSIONS ARE FROM SKID PLAN DATUM.
  5. EQUIPMENT AND STRUCTURES EXTENDING PAST SKID SHIPPING LIMITS ARE REMOVED FOR SHIPPING.
  6. SHIPPING DIMENSIONS: 20'-0" x 11'-0" (6248mm x 3353mm).
  7. SHIPPING WEIGHT: 11,000lbs (4,990kg).
  8. BUILDING: ONE(1) - 3'-0" x 7'-0" MAN DOOR C/W MFG GLASS, LOCKING PANO HARDWARE, CHECK CHAIN, WEATHER STRIPPING + THRESHOLD, TWO(2) - 12" x 12" MANUAL SUDING LOUVERS.

REFERENCE DRAWINGS	REV	DESCRIPTION	BY	DATE	CHK'D	APP'D
	1	AS BUILT	LL	11/02/28	BX	RWS
	0	ISSUED FOR CONSTRUCTION	SW	11/01/10	BX	RWS

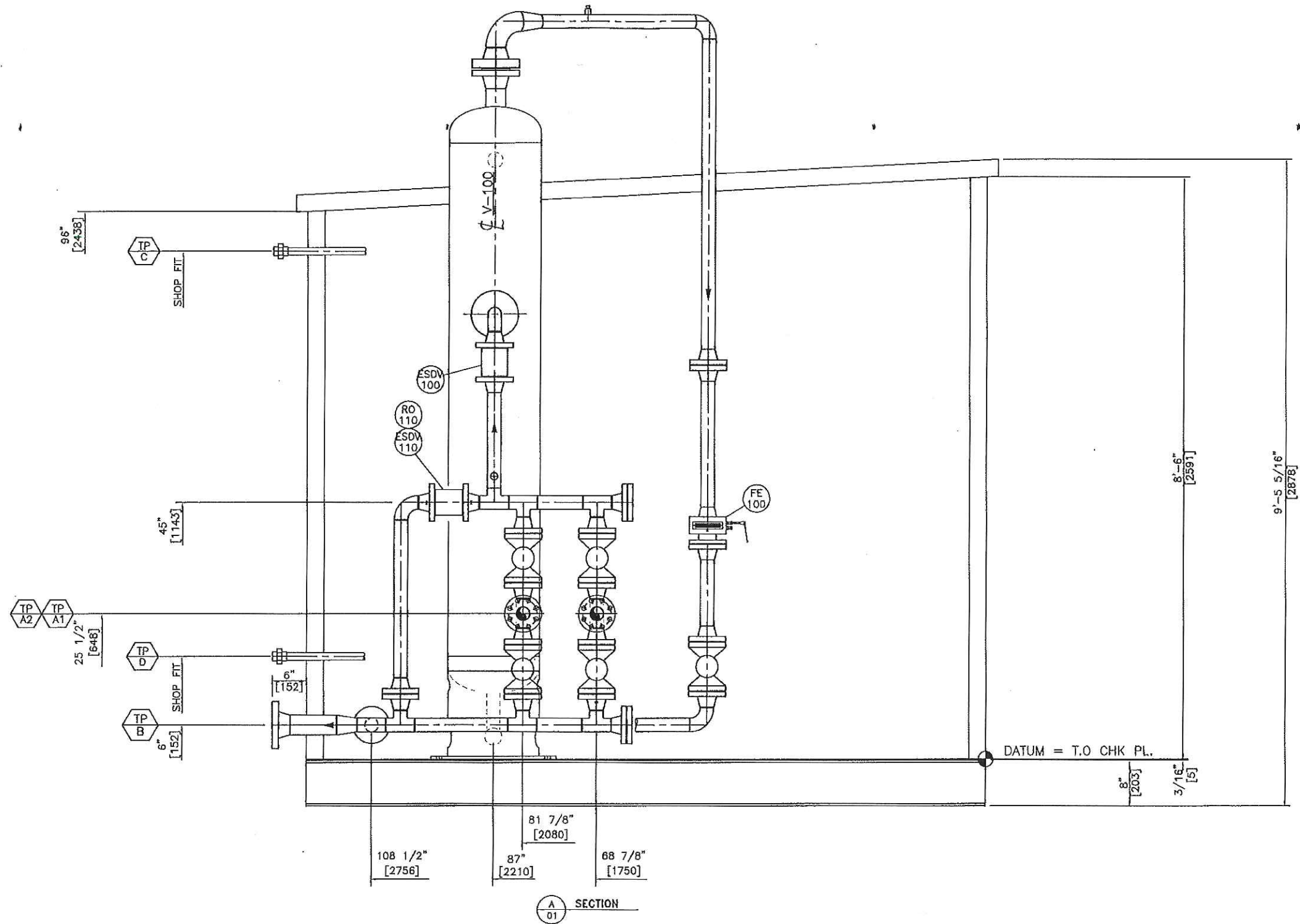
ENGINEER'S STAMP

DRAWN BY	SW	11/01/10
CHK'D BY	BX	11/01/10
APP'D BY	RWS	11/01/10
CAD REF	19245-GA-01.DWG	SCALE 1"=1'

**PLATINUM**  
Energy Services Corp.  
CALGARY, ALBERTA

CLIENT		CANADIAN NATURAL RESOURCES LTD.	
TITLE		16" x 7'-6" 3 PHASE 720 Psi GENERAL ARRANGEMENT - PLAN	
JOB NO.	19245	DRAWING NO.	19245-GA-01
REV	1		

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NOTES:

REV	DESCRIPTION	BY	DATE	CHKD	APPD
1	AS BUILT	LL	11/02/28	BX	RWS
0	ISSUED FOR CONSTRUCTION	SW	11/01/10	BX	RWS
REFERENCE DRAWINGS					

ENGINEER'S STAMP

DRAWN BY SW 11/01/10  
CHKD BY BX 11/01/10  
APPD BY RWS 11/01/10  
CAD REF 19245-GA-02.DWG SCALE 1/4"=1'

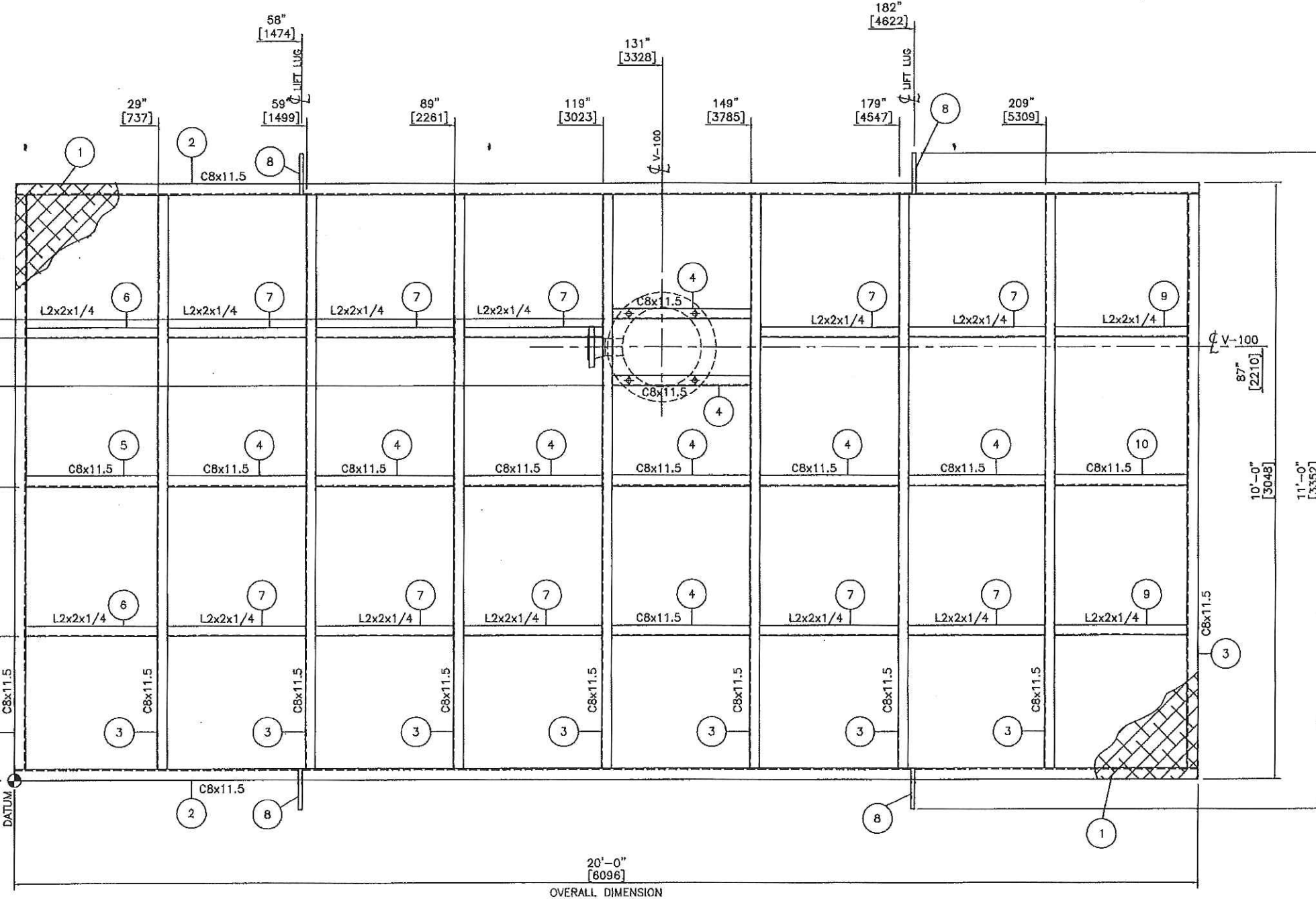


CLIENT		CANADIAN NATURAL RESOURCES LTD.	
TITLE		16" x 7'-6" 3 PHASE 720 Psi GENERAL ARRANGEMENT - VIEW "A-A"	
JOB NO.	19245	DRAWING NO.	19245-GA-02
REV	1		

**PLATINUM**  
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PLAN VIEW

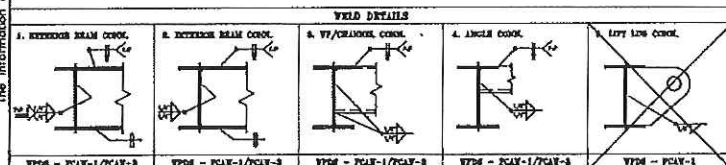
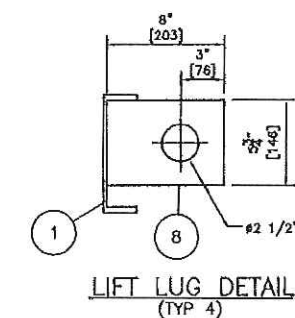
OVERALL DIMENSION

BILL OF MATERIAL			
ITEM	QTY	DESCRIPTION	MATERIAL
1	1	3/16" THK CHECKERED PL. 20'-0" x 10'-0"	SA-36
2	2	C8 x 11.5 x 240" Lg	SA-36/44W
3	9	C8 x 11.5 x 115 1/2" Lg	SA-36/44W
4	9	C8 x 11.5 x 29 7/8" Lg	SA-36/44W
5	1	C8 x 11.5 x 26 3/4" Lg	SA-36/44W
6	2	L2 x 2 x 1/4 THK x 26 3/4" Lg	SA-36/44W
7	10	L2 x 2 x 1/4 THK x 29 7/8" Lg	SA-36/44W
8	4	5 3/4" x 8" LG X 3/4" THK. PLATE	SA-36
9	2	L2 x 2 x 1/4 THK x 28 5/8" Lg	SA-36/44W
10	1	C8 x 11.5 x 28 5/8" Lg	SA-36/44W

\* ALL BOM ITEMS DO NOT INCLUDE WELD GAP(SHOP CUTS)

### GENERAL STRUCTURAL STEEL NOTES:

- ALL DIMENSION ARE IN INCHES UNLESS NOTED. ALL ELEVATIONS ARE REFERRED FROM TOP OF SKID FLOOR.
- SURFACES AND EDGES TO BE WELDED SHALL BE SMOOTH, UNIFORM AND FREE FROM FINS, CRACKS, ALSO WITH IN 50mm OF ANY WELD LOCATION, FREE FROM LOOSE OR THICK SCALE, SLAS, RUST, PAINT, GREASE, MOISTURE etc. W59-03 5.3.1
- SKID FRAMING SHALL BE OF SOLID WELDED CONSTRUCTION, 6mm CONTINUOUS FILLET WELDS, COPE ALL FRAMING MEMBERS INTO ONE ANOTHER UNLESS NOTED OTHERWISE.
- CHECKERED PLATE SEAMS TO BE SEAL WELDED CONTINUOUSLY ON TOP SIDE, STITCH WELDED TO UNDERSIDE USING 5mm FILLETS 50mm AT 300mm INTERVALS. FCAW-1.
- CLEAN ALL STEEL SURFACES PRIOR TO PAINTING TO SSPC-SP3
- PAINT: ONE SHOP COAT OF FAST DRY WARM GERY DTU, ONE SHOP COAT OF WARM GERY DTU
- WEIGHT OF STRUCTURAL STEEL SKID = 3,910 lbs (1,777kg)
- SHIPPING DIMENSIONS: 20'-0" x 11'-0" (6,096mm x 3,352mm)



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