TIE-IN SCHEDULE

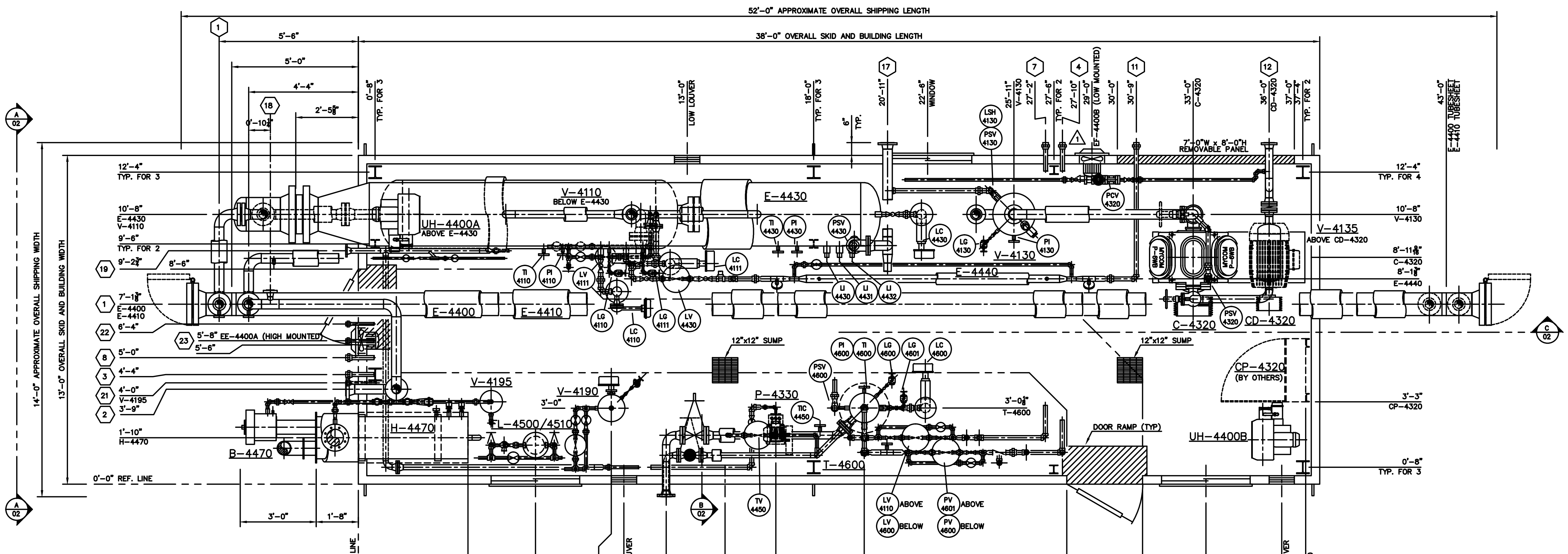
1. 4"-600# ANSI RF, H.P. GAS INLET @ F.O.F. ELEV. 12'-4[7\8]".
2. 4"-600# ANSI RF, H.P. GAS OUTLET @ ℄ ELEV. 2'-0".
3. 1[1\2]"-3000# NPT, T-4600 OVERHEADS OUTLET ℄@ ELEV. 8'-2". △1
4. 1[1\2]"-3000# NPT, CONDENSATE FROM T-600 TO SKID EDGE @℄ ELEV. 8'-1[15\16]".
5. 1[1\2]"-3000# NPT, A-4210 CONDENSATE INLET @ CUSTOMER LOCATED ELEV.
6. 1[1\2]"-3000# NPT, A-4210 CONDENSATE OUTLET @ CUSTOMER LOCATED ELEV.
7. 1[1\2]"-3000# NPT, CONDENSATE FROM A-4210 @℄ ELEV. 8'-1[15\16]". △1
8. 1[1\2]"-3000# NPT, CONDENSATE TO STORAGE @℄ ELEV. 8'-2".
9. 1[1\2]"-3000# NPT, PROPANE FILL CONNECTION @℄ ELEV. 7" ABOVE GRADE.
10. 1[1\2]"-3000# NPT, F-4520 PROPANE OUTLET @℄ ELEV. 4'-6" ABOVE GRADE.
11. 1[1\2]"-3000# NPT, PROPANE FROM F-4520 @℄ ELEV. 8'-1[15\16]". △1
12. 3"-150# ANSI RF, C-4320 DISCHARGE TO SKID EDGE @ ℄ ELEV. 8'-2[3\4]". △1
13. 3"-150# ANSI RF, A-4200 PROPANE INLET @ F.O.F. ELEV. 8'-2" ABOVE GRADE.
14. 3"-150# ANSI RF, A-4200 PROPANE OUTLET @ F.O.F. ELEV. 5'-10" ABOVE GRADE.
15. 1"-3000# NPT, PROPANE VENT @ ℄ ELEV. 4'-1" ABOVE GRADE.
16. 1[1\2]"-3000# NPT, PROPANE TO FLARE @℄ ELEV. 4'-6" ABOVE GRADE.
17. 4"-150# ANSI RF, FLARE HEADER @ ℄ ELEV. 7'-10[1\4]".
18. 2"-600# ANSI RF, FUEL GAS OUTLET @ ℄ ELEV. 13'-3[3\8]". △1
19. 2"-150# ANSI RF, DRAIN HEADER @ ℄ ELEV. 0'-4".
20. 2"-3000# NPT, SKID DRAIN @ ℄ ELEV. 4" BELOW T.O.S.
21. 1"-3000# NPT, FUEL GAS SUPPLY @ ℄ ELEV. 1'-0".
22. 1"-3000# NPT, INSTRUMENT AIR SUPPLY @ ℄ ELEV. 8'-1[3\4]".
23. 1"-3000# NPT, CONDENSATE LIQUIDS FROM COMP.#4 INLET SCRUBBER @ ℄ ELEV. 8'-1[3\4]".
24. 2"-300# ANSI RF, CONDENSATE OUTLET TO (H-4403) @ ℄ ELEV. 4'-10[1\2]".
25. 3"-300# ANSI RF, CONDENSATE/VAPOUR INLET FROM (H-4403) @ ℄ ELEV. 6'-0".
26. 1"-3000# NPT, FUEL GAS SUPPLY TO (H-4403) @ ℄ ELEV. 4'-0".

GENERAL NOTES:

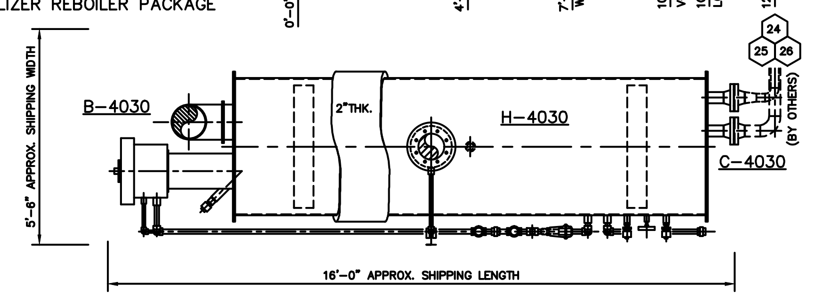
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE MECHANICAL FLOWSHEET.
2. PROCESS PIPING TO BE DESIGNED TO ASME B31.3 2002 EDITION.
3. PRESSURE VESSELS ARE TO BE REGISTERED IN ALBERTA, BRITISH COLUMBIA, & SASKATCHEWAN.
4. VESSELS AND PIPING TO BE INSULATED AS PER FLOWSHEET AND/OR FABRICATION DRAWINGS.
5. PAINTING: SURFACE PREPARATION: COMMERCIAL SANDBLAST TO SSPC-SP6
PRIMER: 1 [S\C] CLOVERDALE #T101 GREY OVERALL.
FINISH PAINT: 1 [S\C] CLOVERDALE #20-F-34 WARM GREY SERIES 111 MARINE ENAMEL.
5. ALL ELEVATIONS SHOWN ARE FROM TOP OF MAIN SKID MEMBERS. DEPTH OF SKID IS 1'-0[1\4]".
6. ALL SKID EDGE CONNECTIONS TO BE HELD AT DIMENSIONS AND ELEVATIONS SHOWN FOR CUSTOMER TIE-INS.
7. SKID IS DESIGNED FOR A SIX (6) POINT LIFT.
8. BLEED TYPE INSTRUMENTS AND METER RUN MANIFOLD ARE INDIVIDUALLY VENTED [O\S] BUILDING. REGULATOR BONNETS, INSTRUMENT CASES AND CONTROL VALVE ACTUATORS ARE NOT VENTED.
9. 1"ø INSTRUMENT AIR HEADER AS SHOWN. SHOP TO RUN AS REQUIRED WITH [1\4]"ø TAKE-OFFS [C\W] ISOLATION NEEDLE VALVE, 67 CFR REGULATOR, AND TUBING TO COMPLETE.
10. REMOVE ALL FLOATS/DISPLACERS FROM ALL LEVEL CONTROLLERS AND SWITCHES. TAG AND CRATE FOR SHIPPING.
11. ALL THERMOWELLS TO BE TAGGED WITH "TW" TAG NUMBERS.
12. PROTECT ALL OPENINGS FOR SHIPPING.
13. ESTIMATED SHIPPING WEIGHTS: PROCESS SKID (LESS T-4600 TOP SECTIONS): 78,180 lbs.
T-4600 TOP SECTIONS: 4,600 lbs.
AERIAL COOLER/ACCUMULATOR SKID: 8,000 lbs.
14. FIVE (5) OPERATING MANUALS AND FOUR (4) QUALITY CONTROL DATA BOOKS ARE PROVIDED.

	600#	300#	150#
DESIGN CONDITIONS:			
D.P. & TEMP.	1415 PSIG @ [-20\150]°F	400 PSIG @ [-20\400]°F	270 PSIG @ [-20\150]°F
BW C.A.	[1\16]"	[1\16]"	[1\16]"
NPT/SW C.A.	0"	0"	0"
RADIOGRAPHY	10% TO ASME B31.3	10% TO ASME B31.3	10% TO ASME B31.3
P.W.H.T.	NONE	NONE	NONE
HYDROTEST*	1.5 TIMES D.P.	1.5 TIMES D.P.	1.5 TIMES D.P.
PIPING:			
BW PIPING**	2",3",4" SCH. 80, SM'LS SA-106-B	2" & 3" SCH. 40, SM'LS SA-106-B	2" & 3" SCH. 40, SM'LS SA-106-B
SW PIPING	≤ 2" SCH. 80, SM'LS SA-106-B	≤ 2" SCH. 80, SM'LS SA-106-B	≤ 2" SCH. 80, SM'LS SA-106-B
NPT PIPING	≤ 2" SCH. XXH, SM'LS SA-106-B	≤ 2" SCH. XXH, SM'LS SA-106-B	≤ 2" SCH. XXH, SM'LS SA-106-B
INSTRUMENT TUBING	[3\8]" O.D. 304SS (0.035")	[3\8]" O.D. 304SS (0.035")	[3\8]" O.D. 304SS (0.035")
PROCESS TUBING	[3\8]" O.D. 304SS (0.035")	[3\8]" O.D. 304SS (0.035")	[3\8]" O.D. 304SS (0.035")
FITTINGS:			
BW FITTINGS	2",3",4" SCH. 80, SA-234-WPB	2" & 3" SCH. 40, SA-234-WPB	2" & 3" SCH. 40, SA-234-WPB
	-	-	-
SW FITTINGS	≤ 2" 3000# SA-105	≤ 2" 3000# SA-105	≤ 2" 3000# SA-105
NPT FITTINGS	≤ 2" 3000# SA-105	≤ 2" 3000# SA-105	≤ 2" 3000# SA-105
FLANGES	RFWN BORE TO PIPE, SA-105	RFWN BORE TO PIPE, SA-105	RFWN BORE TO PIPE, SA-105
GASKETS	304SS x [1\8]" THK. FLEXITALLIC	304SS x [1\8]" THK. FLEXITALLIC	304SS x [1\8]" THK. FLEXITALLIC
BOLTING	SA-193-B7/SA-194-2H	SA-193-B7/SA-194-2H	SA-193-B7/SA-194-2H
PUMP/L.G. NIPPLES	SCH. 160, SM'LS SA-106-B	SCH. 160, SM'LS SA-106-B	SCH. 160, SM'LS SA-106-B
TUBING FITTINGS	304SS PARKER A-LOK	304SS PARKER A-LOK	304SS PARKER A-LOK

*LOW PRESSURE NPT/SW PIPING IS AIR TESTED AT 100 PSIG.
**PIPE SCHEDULE IS SELECTED BASED ON PRESSURE AND CORROSION LIMITS.
***ALLOW [1\16]" GAP IN SOCKET WELDING.



SEE DWG.# C-2003-7134-51A-001
FOR STABILIZER REBOILER PACKAGE



		1	2003 11-25	JSB			DELETED PUMP P-4330A & FE4400, CHG'D TIE-IN 3,7,11,12 & 18 ELEV.
D-2003-7134-51A-001	STABILIZER REBOILER LAYOUT	0	2003 11-14	KRT	JM		ISSUED FOR CONSTRUCTION
D-2003-7134-50F	MECHANICAL FLOWSHEET	A	2003 11-11	KRT			ISSUED FOR CUSTOMER APPROVAL
DWG.	DESCRIPTION	REV.	DATE	REV. BY	APP'D PROJ. CO-ORD.	APP'D CHIEF ENG.	DESCRIPTION
REFERENCE DRAWINGS		REVISIONS					

DRAWN	FEH
DATE	2003-09-19
SCALE	[1\2]"=1'-0"
CHK'D	KEW

ALCO GAS & OIL PRODUCTION EQUIPMENT LTD.

LAYOUT / ASSEMBLY
REFRIGERATION PACKAGE

LOCATION: CARBON GAS PLANT
CUSTOMER: ATCO GAS
DWG/SHOP ORDER: D-2003-7134-50A-001/002 REV. 1

S2001-150260-50F