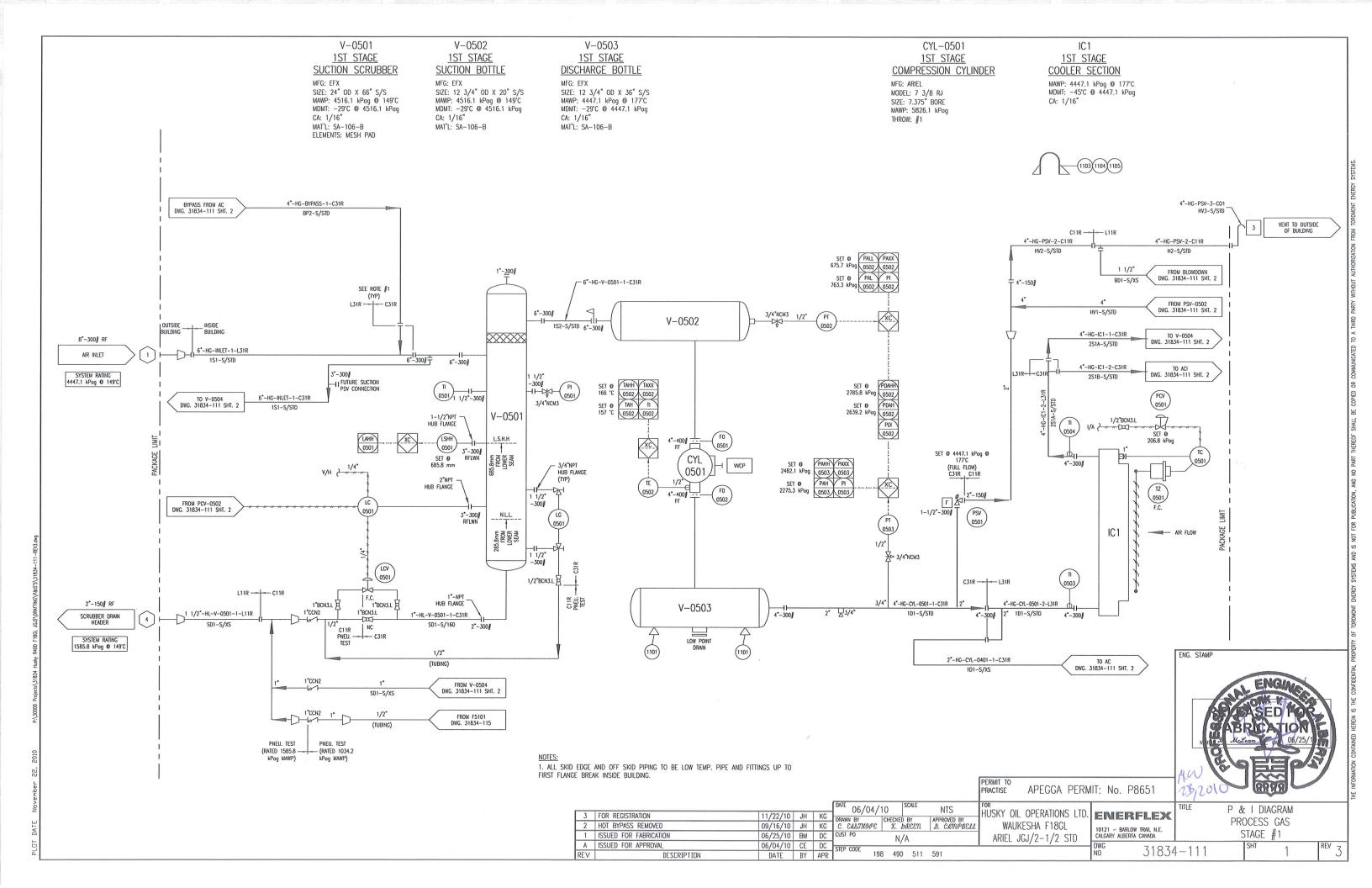
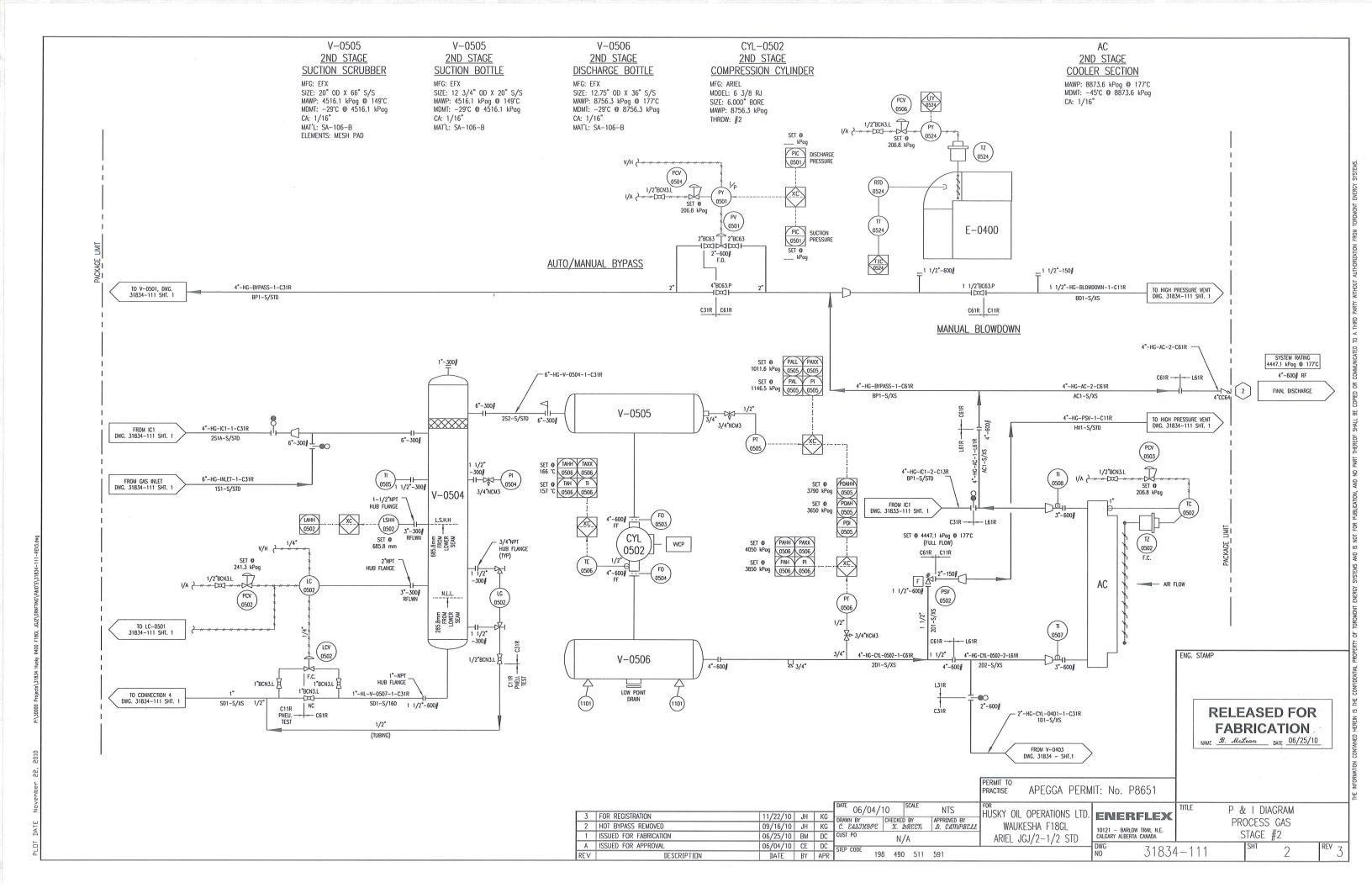


| LOW DIAGRAM | LINE NUMBER | SERVICE | SIZE (INCH) | FROM | ТО | TESI PIPE SPEC | WALL THICKNESS (SCHEDULE) | DESIGN PRESSURE (KPAG) | DESIGN TEMP. (Deg. C) | CORROSION ALLOWANCE (mm) | TEST PRESSURE (KPAG) | X-RAY | NOTES | PIPE MATERIAL | FLANGE MATERIAL | CODE | PWHT |
|----------------------|---------------------------|--------------------|-------------|--|---|----------------|------------------------------|------------------------------|-----------------------------|--------------------------------|-------------------------|-------|-------|----------------|-----------------|-------|------|
| 31834-111- SHT. 1 | 6"-HG-INLET-1-L31R | NORMAL FLUID (AIR) | 4/6/8 | AIR INLET 4"-HG-BYPASS-1-C31R | V-0501 INLET 6"-HG-INLET-1-C31R | L31R | 40 / 40 / 40 | 4516 | -45/149 | 1.5875 | 6774 | 10% | 1, 3 | SA-333 Grade 6 | SA-350-LF2 | B31.3 | NO |
| 31834-111- SHT. 1 | 6"-HG-INLET-1-C31R | NORMAL FLUID (AIR) | 3/6 | 6"-HG-INLET-1-L31R | 4"-HG-IC1-1-C31R | C31R | 40 / 40 | 4516 | -29/149 | 1.5875 | 6774 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | МО |
| 31834-111- SHT. 1 | 6"-HG-V-0501-1-C31R | NORMAL FLUID (AIR) | 6 | V-0501 OUTLET | V-0502 INLET | C31R | 40 | 4516 | -29/149 | 1.5875 | 6774 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 1 | 4"-HG-CYL-0501-1-C31R | NORMAL FLUID (AIR) | 1.5 / 4 | V-0503 OUTLET | 4"-HG-CYL-0501-2-L31R | C31R | XS / 40 | 4447 | -29/177 | 1.5875 | 6671 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 1 | 4"-HG-CYL-0501-2-L31R | NORMAL FLUID (AIR) | 1.5/2/4 | 4"-HG-CYL-0501-1-C31R | 2"-HG-CYL-0501-1-C31R IC1 SECTION INLET | L31R | XS / XS / 40 | 4447 | -45/177 | 1.5875 | 6671 | 10% | 1, 3 | SA-333 Grade 6 | SA-350-LF2 | B31.3 | NO |
| 31834-111- SHT. 1 | 2"-HG-CYL-0501-1-C31R | NORMAL FLUID (AIR) | 2 | 4"-HG-CYL-0501-2-L31R | 4"-HG-CYL-0502-2-L61R | C31R | XS | 4447 | -29/177 | 1.5875 | 6671 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 1 | 4"-HG-IC1-1-L31R | NORMAL FLUID (AIR) | 4 | IC1 SECTION OUTLET | 4"-HG-IC1-1-C31R 4"-HG-IC1-2-C31R | L31R | 40 | 4516 | -45/149 | 1.5875 | 6774 | 10% | 1, 3 | SA-333 Grade 6 | SA-350-LF2 | B31.3 | NO |
| 31834-111- SHT. 1 | 4"-HG-IC1-1-C31R | NORMAL FLUID (AIR) | 4/6 | 4"-HG-IC1-1-L31R | 6"-HG-INLET-1-C31R | C31R | 40 / 40 | 4516 | -29/149 | 1.5875 | 6774 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 2 | 4"-HG-IC1-2-C31R | NORMAL FLUID (AIR) | 4 | 4"-HG-IC1-1-L31R | 4"-HG-AC-1-L61R | C31R | 40 | 4516 | -29/149 | 1.5875 | 6774 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 2 | 6"-HG-V-0504-1-C31R | NORMAL FLUID (AIR) | 6 | V-0504 OUTLET | V-0505 INLET | C31R | 40 | 4516 | -29/149 | 1.5875 | 6774 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 2 | 4"-HG-CYL-0502-1-C61R | NORMAL FLUID (AIR) | 4 | V-0506 OUTLET | 4"-HG-CYL-0502-2-L61R | C61R | XS | 8880 | -29/177 | 1.5875 | 13320 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 2 | 4"-HG-CYL-0502-2-L61R | NORMAL FLUID (AIR) | 1.5/2/3/4 | 4"-HG-CYL-0502-1-C61R 2"-HG-CYL-0501-1-C31R | 4"-HG-PSV-1-C11R (PSV-0502 INLET) AC SECTION INLET | L61R | XS/XS/XS | 8880 | -45/177 | 1.5875 | 13320 | 10% | 1, 3 | SA-333 Grade 6 | SA-350-LF2 | B31.3 | NO |
| 31834-111- SHT. 2 | 4"-HG-AC-1-L61R | NORMAL FLUID (AIR) | 3/4 | AC SECTION OUTLET 4"-HG-IC1-2-C31R | 4"-HG-AC-1-C61R | L61R | XS/XS | 8880 | -45/177 | 1.5875 | 13320 | 10% | 1, 3 | SA-333 Grade 6 | SA-350-LF2 | B31.3 | NO |
| 31834-111- SHT. 2 | 4"-HG-AC-1-C61R | NORMAL FLUID (AIR) | 4 | 4"-HG-AC-1-L61R | 4"-HG-AC-2-L61R 4"-HG-BYPASS-1-C61R | C61R | XS | 8880 | -29/177 | 1.5875 | 13320 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 2 | 4"-HG-AC-2-L61R | NORMAL FLUID (AIR) | 4 | 4"-HG-AC-1-C61R | FINAL DISCHARGE | L61R | XS | 8880 | -45/177 | 1.5875 | 13320 | 10% | 1, 3 | SA-333 Grade 6 | SA-350-LF2 | B31.3 | NO |
| 31834-111- SHT. 2 | 4"-HG-BYPASS-1-C61R | NORMAL FLUID (AIR) | 1.5/2/4 | 4"-HG-AC-1-C61R | 4"-HG-BYPASS-1-C31R 1 1/2"-HG-BLOWDOWN-1-C11R | C61R | XS/XS/XS | 8880 | -29/177 | 1.5875 | 13320 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 2 | 4"-HG-BYPASS-1-C31R | NORMAL FLUID (AIR) | 2/4 | 4"-HG-BYPASS-1-C61R | 6"-HG-INLET-1-L31R | C31R | XS / 40 | 4516 | -29/149 | 1.5875 | 6774 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 2 | 1 1/2"-HG-BLOWDOWN-1-C11R | NORMAL FLUID (AIR) | 1.5 | 4"-HG-BYPASS-1-C61R | 4"-HG-PSV-2-L11R | C11R | XS | 1586 | -29/149 | 1.5875 | 2379 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 2 | 4"-HG-PSV-1-C11R | NORMAL FLUID (AIR) | 2/4 | 4"-HG-CYL-0501-1-C31R (PSV-0501 OUTLET) 4"-HG-CYL-0502-2-L61R (PSV-0502 OUTLET) | 4"-HG-PSV-2-C11R | C11R | XS / 40 | 1586 | -29/149 | 1.5875 | 2379 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 2 | 4"-HG-PSV-2-C11R | NORMAL FLUID (AIR) | 4 | 4"-HG-PSV-1-C11R | 4"-HG-PSV-2-L11R | C11R | 40 | 1586 | -29/149 | 1.5875 | 2379 | 10% | 1, 3 | SA-106-B | SA-105 | B31.3 | NO |
| 31834-111- SHT. 2 | 4"-HG-PSV-2-L11R | NORMAL FLUID (AIR) | 1.5 / 4 | 4"-HG-PSV-2-C11R 1 1/2"-HG-BLOWDOWN-1-C11R | 4"-HG-PSV-3-L11R | L11R | XS / 40 | 1586 | -45/149 | 1.5875 | 2379 | 10% | 1, 3 | SA-333 Grade 6 | SA-350-LF2 | B31.3 | NO |
| 31834-111- SHT. 2 | 4"-HG-PSV-3-L11R | NORMAL FLUID (AIR) | 4 | 4"-HG-PSV-2-L11R | HIGH PRESSURE VENT HEADER | L11R | 40 | NA | NA | 1.5875 | NA | 10% | 1, 3 | SA-333 Grade 6 | SA-350-LF2 | B31.3 | NO |
| | | | | | | | | | | | | | | | | # | 1 |

NOTE 1: TEST MEDIUM TO BE ${\rm H_2O}$ - MINIMUM DURATION 10 MINUTES NOTE 2: TEST MEDIUM TO BE AIR NOTE 3: 10% MPI ON ALL FILLET WELDS INCLUDING PSV GUSSETS

| PSV TAG# | LOCATION | MAKE | MODEL # | INLET | OUTLET | SET AT | | | | | |
|-----------------------------|--------------------|--------|------------|--|--------------|--------------------|----------------------------------|---|--|-----|-----|
| PSV-0501 | STAGE #1 DISCHARGE | FARRIS | 26FA12-140 | 1 1/2" - 300# RF | 2" - 150# RF | 4447.1 kPag @ 177C | | | | | |
| PSV-0502 | STAGE #2 DISCHARGE | FARRIS | 26FA13-140 | 1 1/2" - 600# RF | 2" - 150# RF | 4447.1 kPag @ 177C | | | | | |
| | | | | ENGIN | | | | | | | |
| | | | | A STATE OF THE STA | | | | | | | |
| REVISIONS | | | | SEA | | | | - | | | |
| NO. | ISSUE | | DATE | 16/47 | , | | HUSKY OIL OPERATIONS LTD | | | | |
| 0 RELEASED FOR REGISTRATION | | | 14-Oct-10 | | | | Site Nan LSD: (Wa ARIE | ne:: McMullen TCP 03-35-078-25 W4 ukesha F18GL L JGJ/2-1/2 STD | | ERF | LEX |
| | | | | ALL PARTY AND | 19,200 | | AIR-X | -LIMITED 96AEF | | | |





DESCRIPTION

N/A

DATE BY APR

31834-099

