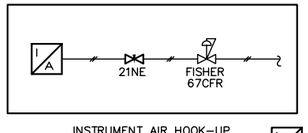
LEGEND

- GATE VALVE (GA)
- BALL VALVE (BA)
- PLUG VALVE (PL)
- NEEDLE VALVE (NE)
- GLOBE VALVE (GL)
- CHECK VALVE (CH)
- BUTTERFLY VALVE (BU)
- SOCKET WELD VALVE
- SCREWED VALVE
- FLANGED VALVE
- CONTROL VALVE WITH DIAPHRAGM ACTUATOR
- CONTROL VALVE WITH PISTON ACTUATOR
- PRESSURE REGULATOR
- SOLENOID VALVE
- ANGLE CHOKE
- INLINE CHOKE
- Y–STRAINER
- PRESSURE SAFETY VALVE
- ORIFICE METER RUN
- TURBINE METER OR POSITIVE DISPLACEMENT METER
- SPECTACLE BLIND, OPEN (CLOSED)
- CHANGE IN PIPE SIZE
- INLINE STRAINER

- INSULATION (H–HOT, C–COLD)
- INSULATION & HEAT TRACE
- PROCESS PIPING
- PNEUMATIC SIGNAL
- CAPILLARY TUBING
- ELECTRICAL SIGNAL
- HYDRAULIC SIGNAL
- ELECTROMAGNETIC/SONIC SIGNAL
- SOFTWARE OR DATA LINK
- A.O. AIR TO OPEN (FAIL CLOSED)
- A.C. AIR TO CLOSE (FAIL TO OPEN)
- C.S.O.(C) CAR SEAL OPEN (CLOSED)
- E.S.D. EMERGENCY SHUTDOWN
- F.P. FULL PORT
- R.P. REGULAR PORT
- N.C. NORMALLY CLOSED
- N.O. NORMALLY OPEN
- SPEC BREAK
- ▲ SUPPLIED BY OTHERS
- TIE IN NUMBER
- TIE IN LOCATIONS
- PNEUMATIC TO CURRENT
- CURRENT TO PNEUMATIC



INSTRUMENT AIR HOOK–UP
TYPICAL AT LOCATIONS MARKED WITH: I/A

- LOCALLY MOUNTED INSTRUMENT
- MOUNTED ON MAIN CONTROL ROOM PANEL
- LOCAL PANEL MOUNTED INSTRUMENT
- DISTRIBUTED CONTROL SYSTEM ITEMS
- DISTRIBUTED CONTROL SYSTEM AUXILIARY OPERATOR'S INTERFACE
- DISTRIBUTED CONTROL SYSTEM ITEMS (COMPUTER FUNCTION)
- PROGRAMMABLE LOGIC CONTROL SYSTEM
- PROGRAMMABLE LOGIC CONTROL SYSTEMS ACCESSIBLE TO OPERATOR
- AUX. PROGRAMMABLE LOGIC CONTROL SYSTEMS ACCESSIBLE TO OPERATOR
- (BDV) BLOWDOWN VALVE
- (CV) CONTROL VALVE
- (DPI) DIFFERENTIAL PRESSURE INDICATOR
- (DPS) DIFFERENTIAL PRESSURE SWITCH
- (ESDV) EMERGENCY SHUTDOWN VALVE
- (FAH) FLOW ALARM HIGH, L–LOW
- (FC) FLOW CONTROLLER
- (FCV) FLOW CONTROL VALVE
- (FDSD) FIRE DETECTION SHUTDOWN
- (FSDH) FLOW SHUTDOWN HIGH, L–LOW
- (FE) FLOW ELEMENT
- (FFSD) FLAME FAILURE SHUTDOWN
- (FI) FLOW INDICATOR
- (FR) FLOW RECORDER
- (FS) FLOW SWITCH (H–HIGH, L–LOW)

- (FQI) FLOW TOTALIZER
- (H2S) H2S GAS DETECTION
- (LAH) LEVEL ALARM HIGH, L–LOW
- (LC) LEVEL CONTROLLER
- (LCV) LEVEL CONTROL VALVE
- (LEL) COMBUSTIBLE GAS DETECTION
- (LG) LEVEL GAUGE
- (LI) LEVEL INDICATOR
- (LIC) LEVEL INDICATOR CONTROLLER
- (LR) LEVEL RECORDER
- (LS) LEVEL SWITCH (H–HIGH, L–LOW)
- (LSDH) LEVEL SHUTDOWN HIGH, L–LOW
- (LT) LEVEL TRANSMITTER
- (ME) MOISTURE ELEMENT
- (MI) MOISTURE INDICATOR
- (OSS) OVERSPEED SWITCH
- (OSSD) OVERSPEED SHUTDOWN
- (PAH) PRESSURE ALARM HIGH, L–LOW
- (PC) PRESSURE CONTROLLER
- (PCV) PRESSURE CONTROL VALVE
- (PDM) POSITIVE DISPLACEMENT METER
- (PI) PRESSURE INDICATOR
- (PIC) PRESSURE INDICATOR CONTROLLER
- (PR) PRESSURE RECORDER

- (PRV) PRESSURE REGULATING VALVE
- (PS) PRESSURE SWITCH (H–HIGH, L–LOW)
- (PSDH) PRESSURE SHUTDOWN HIGH, L–LOW
- (PSV) PRESSURE SAFETY VALVE
- (PT) PRESSURE TRANSMITTER
- (PVB) PRESSURE VACUUM BREATHER
- (PZ) PRESSURE TRANSDUCER
- (RO) RESTRICTING ORIFICE
- (SAV) SOLENOID ACTUATED VALVE
- (SC) SURGE CONTROLLER
- (SCV) SURGE CONTROL VALVE
- (TAH) TEMPERATURE ALARM HIGH, L–LOW
- (TC) TEMPERATURE CONTROLLER
- (TCV) TEMPERATURE CONTROL VALVE
- (TI) TEMPERATURE INDICATOR
- (TS) TEMPERATURE SWITCH (H–HIGH, L–LOW)
- (TSDH) TEMPERATURE SHUTDOWN HIGH, L–LOW
- (TT) TEMPERATURE TRANSMITTER
- (TW) THERMO WELL
- (VI) VALVE ACTUATION INDICATOR
- (VS) VIBRATION SWITCH
- (VSD) VIBRATION SHUTDOWN
- (Z) TRANSDUCER
- (ZS) LIMIT SWITCH
- (XVPI) VALVE POSITION INDICATOR
- (XVPS) VALVE POSITION SWITCH

NO.	REVISION	PROJ. No.	BY	DATE	CHK.	DATE
.						
.						
.						
2	ISSUED FOR CONSTRUCTION	53951	EB	06.03.20	JR	06.03.20
1	GENERAL REVISIONS	53951	EB	06.01.30		
0	PRELIMINARY ISSUE	53951	JB			

GENERAL NOTES:

1. "POST CONSTRUCTION DRAWINGS" ARE GENERATED FROM CONSTRUCTION CHANGE INFORMATION FORWARDED TO BOWER DAMBERGER ROLSETH ENGINEERING LTD. BY THE OWNER'S FIELD SUPERVISORS AND, OR HIRED CONTRACTORS. ANY CHANGES NOT DOCUMENTED WILL NOT APPEAR ON THE DRAWINGS AND THEREFORE THE DRAWING MAY NOT BE AN ACCURATE REPRESENTATION OF THE CONSTRUCTED FACILITY.
2. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND OR EXCAVATION IT SHALL BE THE RESPONSIBILITY OF THE OWNERS REPRESENTATIVE TO VERIFY THE LOCATION AND STATUS OF ANY PIPING, ELECTRICAL EQUIPMENT OR BUILDINGS.
3. ANY REVISIONS MADE TO EXISTING EQUIPMENT, PIPING OR ELECTRICAL OR A FACILITY NOT DESIGNED BY B.D.R. ENG. LTD. IS ONLY SHOWN AS A REPRESENTATION OF WHAT EXISTS AND MUST BE VERIFIED BY THE OWNER.

	BY	DATE
DRN.	JB	05.11.29
CHK.		
APP'D.		
L.S.D.	09–06–61–05 W5M	

Bower Damberger Rolseth Engineering Ltd.

FORT ENERGY CORP.

THUNDER GAS PLANT
MECHANICAL FLOWSHEET

SHEET NUMBER	DRAWING NUMBER	REV
1 OF 42	F–53951–F–00–01	2

PIGGING SKID LIMITS

324-150PX-100
INLET GAS FROM
01-12

324-150PX-101
INLET GAS FROM
01-12

273-150PX-102
INLET GAS FROM
04-32

273-150PX-103
INLET GAS FROM
16-05

324-150PX-104
INLET GAS FROM
04-22

219-150PX-105
INLET GAS FROM
13-17

TRANSITION PIECE

PIPELINE CONTRACTOR
PIPELINE CONTRACTOR

38H&T

60ø NPT
CORROSION COUPON

PI 1 | PI 2 | PI 3 | PI 4 | PI 7 | PI 8 | PI 9 | PI 10 | PI 11 | PI 12 | PI 13 | PI 14

33BA-103X

21NE

356x324 | 324x273 | 273x219

BARRED TEE

BARRED CONN.

324BA-131X | 273BA-131X | 219BA-131X

INSUL. KIT

356ø-150# QUICK OPEN CLOSURE

324ø-150# QUICK OPEN CLOSURE

273ø-150# QUICK OPEN CLOSURE

33GL-103X

114GL-101X

60x33

33-150PX-403
33-150PX-404
33-150PX-405
33-150PX-406
33-150PX-407
33-150PX-443

33-150PX-273
33-150PX-274
33-150PX-275
33-150PX-276
33-150PX-277
33-150PX-295

324-150PX-100
324-150PX-101
273-150PX-102
273-150PX-103
324-150PX-104
219-150PX-105

324CH-101X
273CH-101X
219CH-101X

60-150PX-402
60-150PX-296
324-150PX-110

SHEET 42 60-150PX-402 TO FLARE HEADER

60-150PX-471 PIGGING SKID SHEET 36

SHEET 3 324-150PX-110 INLET HDR. TO V-100

SHEET 40 60-150PX-296 TO H.C. DRAIN HEADER

33BA-103X (L.P. DRAIN.)

PIGGING SKID LIMITS

SHEET NUMBER	DRAWING NUMBER	REV
2 OF 42	F-53951-F-00-01	2

V-100
INLET SEPARATOR
2438 O.D. x 9144 S/S
D.P: 1931 kPa @-29/38°C
INTERNALLY COATED

INLET SEPARATOR SKID LIMITS

SHEET 2 324-150PX-110 INLET HDR. TO V-100

324BA-131X

PAHH PIR 10001

ROSEMOUNT 2088

PI 10001

PIT 10001

21NE

33BA-103X

273BA-131X c/w BETTIS ACT. CBA1030SR (F.C.)

ESDV 10002

SAV 10002

114-150# x 168-150# FARRIS 26MA10-120 SET @ 1931 kPa BLOCKED FLOW

REXROTH QUICK EXHAUST

324x273

33BA-103X (C.S.C.)

PSV 10004

219x168

219-150PX-408

219BA-131X (C.S.O.)

33BA-103X

60BA-101X

SHEET 42 219-150PX-408 TO FLARE HEADER

60-150PX-215 SHEET 28 DEETHANIZER OVERHEADS

60GL-101X

60-150PX-409

60-150# CVS D c/w 1-1/4" TRIM (F.O.)

SAV 10011

BDV 10011

60BA-101X (C.S.O.)

60-150PX-215

PAHH PAH PAL PALL

PIR 10012

FIR 10012

TIR 10012

PIT 10012

FIT 10012

TIT 10012

PIT-10012 ROSEMOUNT MODEL 3051TG (0-2,000 kPa)
dPIT-10012 ROSEMOUNT MODEL 3051CD (0-62 kPa)
TIT-10012 ROSEMOUNT MODEL 3144P (-20°C TO 100°C)
4-20 mA

FE 10012 324ø-150# V-CONE FLOW METER

324-150PX-111

33BA-103X

324BA-131X

60BA-101X (DRN)

SHEET 4 219-150PX-114 K-600 SUCTION

SHEET 7 219-150PX-130 K-601 SUCTION

SHEET 10 219-150PX-146 K-602 SUCTION

SHEET 13 219-150PX-162 K-603 SUCTION

SHEET 16 219-150PX-178 K-604 SUCTION

324-150PX-111 COMPRESSOR SUCTION HEADER

60-150PX-483 SHEET 38 FROM V.R.U. BLOWER

114-150#

33ø NPT

60 NPT NORRISEAL 1005E

LAHH 10006

LSH 10006

V-100

DEMISTER 316L SS 152mm THICK 9 LBS/FT³

610ø MANWAY

LAHH 1829mm (FUTURE)
LAHH 1676mm (FUTURE)
LAHH 1524mm
LAH 610mm
NLL 305mm
LALL 152mm

FLANGED VORTEX BREAKER

60BA-101X

27BA-103X

33BA-103X

TI 10007

PI 10005

21NE

LG 10008

LT 10009

LIC 10009

LIR 10009

LAHH LAH LAL LALL

MAGTECH LG4 c/w LTM 200D

60BA-101X

27BA-103X

21BA-103X

33BA-103X

NOTE:
VESSEL AND PIPING OUTSIDE OF BUILDING IS INSULATED AND HEAT-TRACED AS NEEDED.

AE 10001 LEL

AIT 10001

AIR 10001

AAH AAHH

ELECTRIC HEATER 25 KW

114-150PX-279

60-150PX-280

60-150PX-278

LIC 10010

LY 10010

SAV 10010

60-150# NORRISEAL 2220-9 (F.C.)

LCV 10010

60BA-101X

ALTA 'Y' STRAINER 60YSF-101X C/W 21BA-103X

33BA-103X

60BA-101X

60-150PX-278

60GL-101X

LIC 10009

LY 10009

SAV 10009

89-150# CVS ET (F.C.)

LCV 10009

114BA-101X

ALTA 'Y' STRAINER 114YSF-101X C/W 48BA-103X

114x89

33BA-103X

89BA-101X

114x89

60-150PX-280

114-150PX-279

33BA-103X

60-150IAX-901 SHEET 37 INSTRUMENT AIR

60x33

114BA-101X

114CH-101X

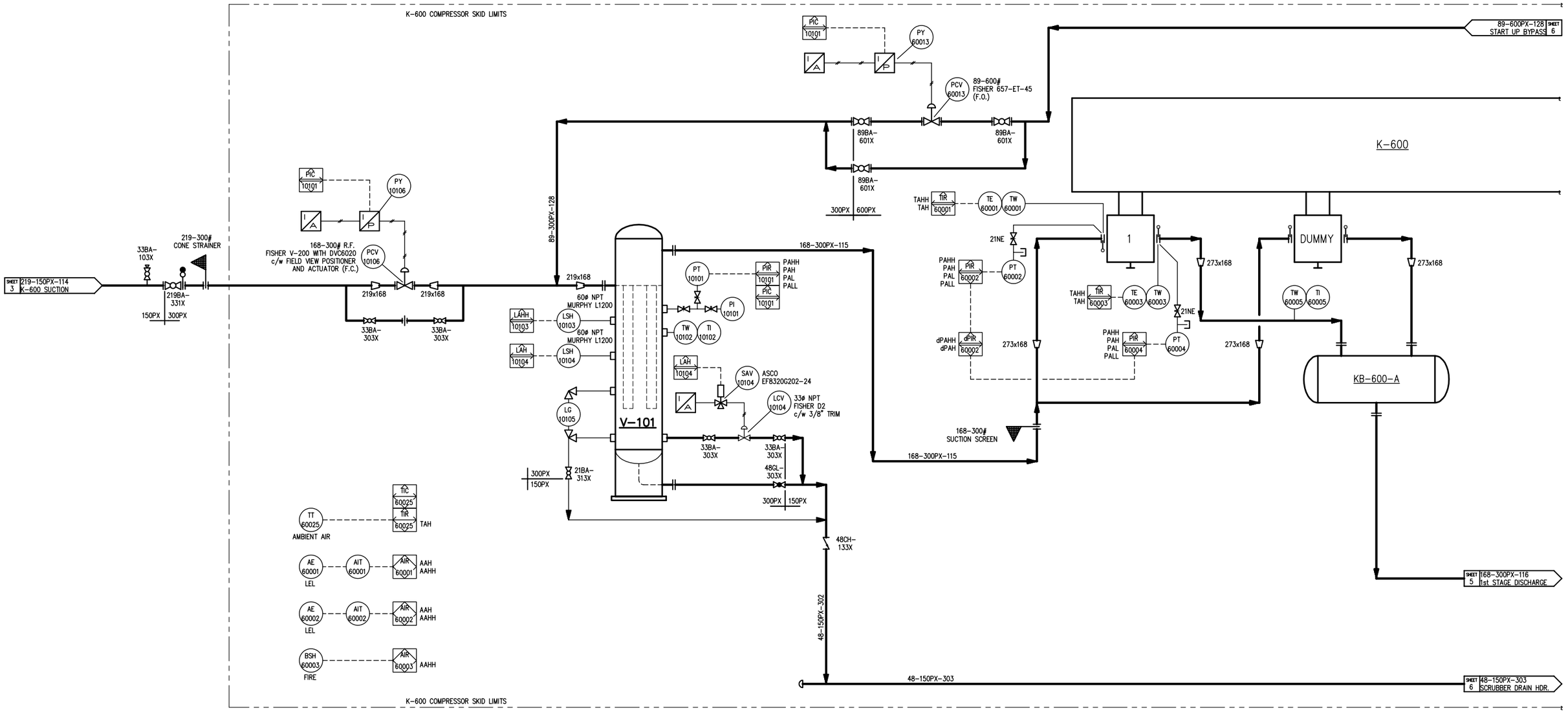
SHEET 39 114-150PX-279 TO WATER STORAGE HDR

INLET SEPARATOR SKID LIMITS

SHEET NUMBER	DRAWING NUMBER	REV
3 OF 42	F-53951-F-00-01	2

V-101
1st STAGE GLM CYCLONE VORTEX CLUSTER
762 O.D. x 2134 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

KB-600-A
1st STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 4378 kPa @ -28/177°C
C.A: 1.6mm



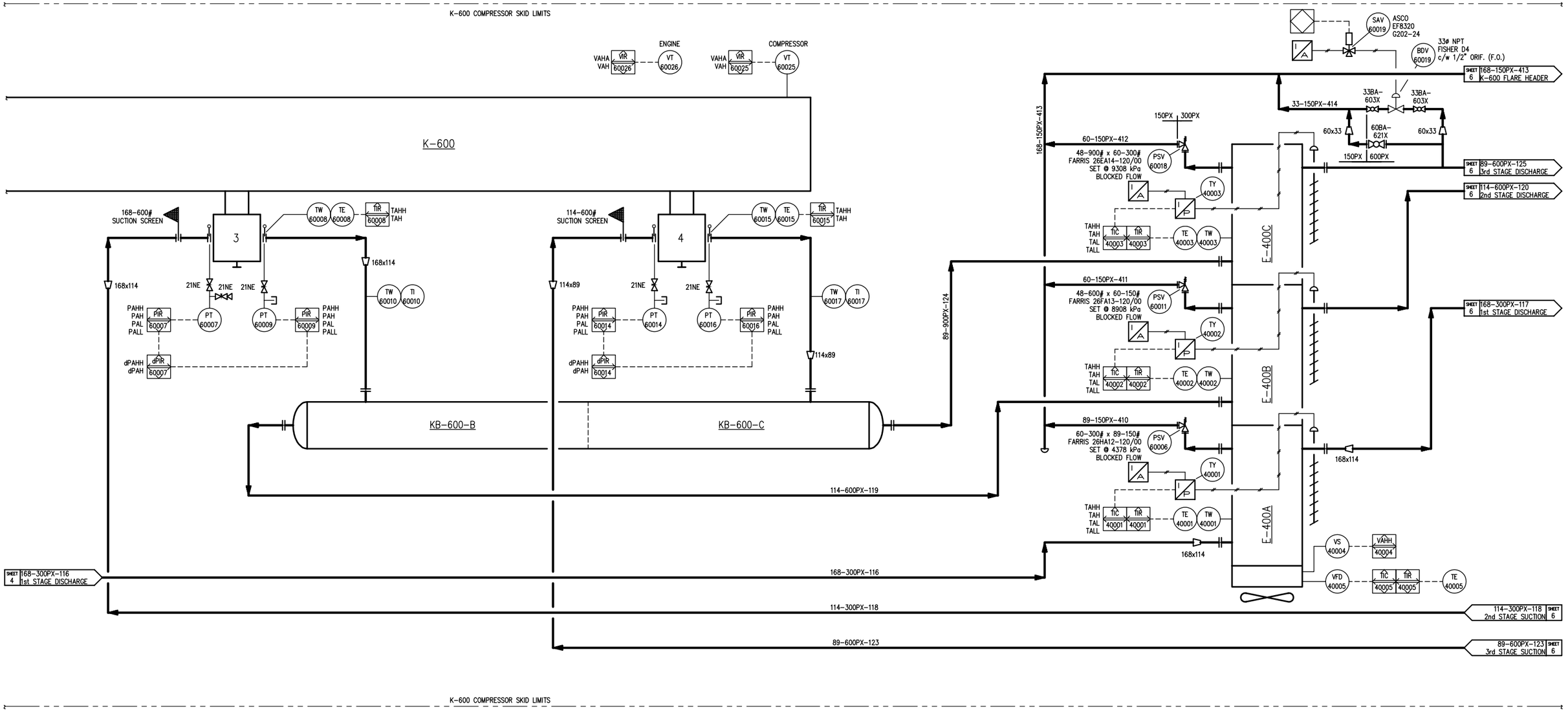
SHEET NUMBER	DRAWING NUMBER	REV
4 OF 42	F-53951-F-00-01	2

K-600
PROCESS COMPRESSOR
ARIEL JGK/4
c/w CATERPILLAR 3516TALE ENGINE

KB-600-B
2nd STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 9308 kPa @ -28/177°C
C.A: 1.6mm

KB-600-C
3rd STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 9308 kPa @ -28/177°C
C.A: 1.6mm

E-400 A/B/C
AIR X-CHANGER
AIR-X-HEMPILL 144ZF
A: 4447 kPa @ -29/177°C
B: 8908 kPa @ -29/177°C
C: 9308 kPa @ -29/177°C
50 HP 40V 3PH TEFC VFD



SHEET NUMBER	DRAWING NUMBER	REV
5 OF 42	F-53951-F-00-01	2

V-102
2nd STAGE SUCTION SCRUBBER
610 O.D. x 1676 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

V-103
2nd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

V-105
3rd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

V-104
3rd STAGE SUCTION SCRUBBER
406 O.D. x 1626 S/S
MAWP: 9067 kPa @ -28/149°C
C.A: 1.6mm

SHEET 42 168-150PX-413 TO FLARE HEADER

XVPACC
XVPI 60024
XVPS 60024
168BA-111X

K-600 COMPRESSOR SKID LIMITS

89-600PX-128 SHEET 4 START UP BYPASS

SHEET 5 168-150PX-413 K-600 FLARE HEADER

33ø NPT FISHER D4 c/w 1/2" ORIF. (F.O.)
BDV 60012
33BA-603X
33-150PX-415
60x33
60BA-621X
150PX 600PX
SAV 60012 ASCO EF8320 G202-24

SHEET 5 89-600PX-125 3rd STAGE DISCHARGE

SHEET 5 114-600PX-120 2nd STAGE DISCHARGE

114-300PX-118

PI 10501

V-105

LAH 10503
SAV 10503 ASCO EF8320G202-24
33ø NPT FISHER D2 (F.C.)
LCV 10503
LSH 10502
LAHH 10502
LSH 10503
LAH 10503
33BA-603X
21BA-613X
LG 10504
33CH-133X
150PX 600PX
33-150PX-305

PI 10301

V-103

LAH 10303
SAV 10303 ASCO EF8320G202-24
33ø NPT FISHER D2 (F.C.)
LCV 10303
LSH 10302
LAHH 10302
LSH 10303
LAH 10303
33-150PX-306
LG 10304

89-600PX-126

114-600PX-121

89-600PX-127
89-600# FISHER 657-ET-45 (F.O.)
PCV 60020
PY 60020
PIC 60014
89BA-621X (TYP. 3)
114-600PX-129
114BA-621X

PI 60021
21NE
33BA-603X
89CH-631X
89BA-621X
PI 60022
114BA-621X
114CH-631X

SHEET 19 89-600PX-209 TO AMINE SKID
SHEET 35 89-600PX-126 TO SALES GAS HEADER
SHEET 19 114-600PX-121 TO AMINE SKID

89-600PX-123

PI 10401
21NE
LAHH 10403
LSH 10403
LAH 10404
LSH 10404
TW 10402
TI 10402
V-104
LAH 10404
SAV 10404 ASCO EF8320G202-24
LCV 10404 33ø NPT FISHER D2
LG 10405
600PX 150PX
21BA-603X
33BA-603X
48GL-603X
48-600PX-307
600PX 150PX
48CH-103X

114-600PX-122

89-150PX-478 START GAS VENT
XVPS 60023
XVPI 60023
XVPACC
89CH-101X
89BA-111X

SHEET 26 114-600PX-122 FROM REFRIG. SKID
SHEET 42 89-150PX-478 TO FLARE HEADER
SHEET 36 60-150PX-253 K-600 START GAS
SHEET 37 60-150IAX-902 INSTRUMENT AIR
SHEET 36 60-150PX-226 K-600 FUEL GAS
SHEET 34 60-150PX-649 K-600 LUBE OIL
SHEET 34 60-150PX-650 K-600 WASTE OIL
SHEET 40 60-150PX-303 TO H.C. DRAIN HEADER

60BA-101X
25H&T
3BH&T
60x48
33BA-103X
60CH-101X
60BA-101X (C.S.O.)

SHEET 5 168-300PX-117 1st STAGE DISCHARGE
21NE
PI 10201
LAHH 10203
LSH 10203
TW 10202
TI 10202
LAH 10204
LSH 10204
LAH 10204
SAV 10204 ASCO EF8320G202-24
V-102
LG 10205
LCV 10204 33ø NPT FISHER D2
33BA-303X
48GL-303X
300PX 150PX
21BA-303X
300PX 150PX
48CH-133X
48-150PX-304

SHEET 5 114-300PX-118 2nd STAGE SUCTION

SHEET 5 89-600PX-123 3rd STAGE SUCTION

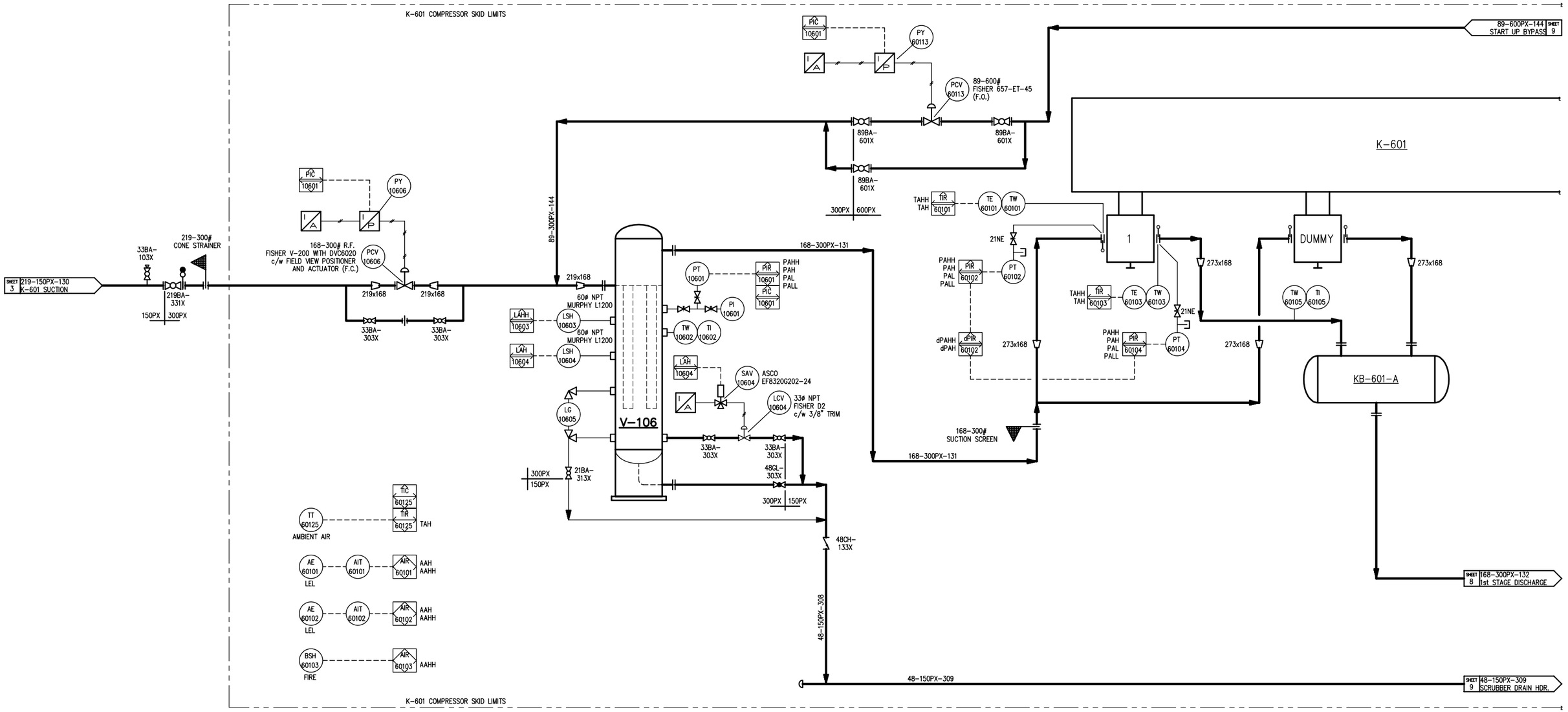
SHEET 4 48-150PX-303 SCRUBBER DRAIN HDR.

K-600 COMPRESSOR SKID LIMITS

SHEET NUMBER	DRAWING NUMBER	REV
6 OF 42	F-53951-F-00-01	2

V-106
1st STAGE GLM CYCLONE VORTEX CLUSTER
762 O.D. x 2134 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

KB-601-A
1st STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 4378 kPa @ -28/177°C
C.A: 1.6mm



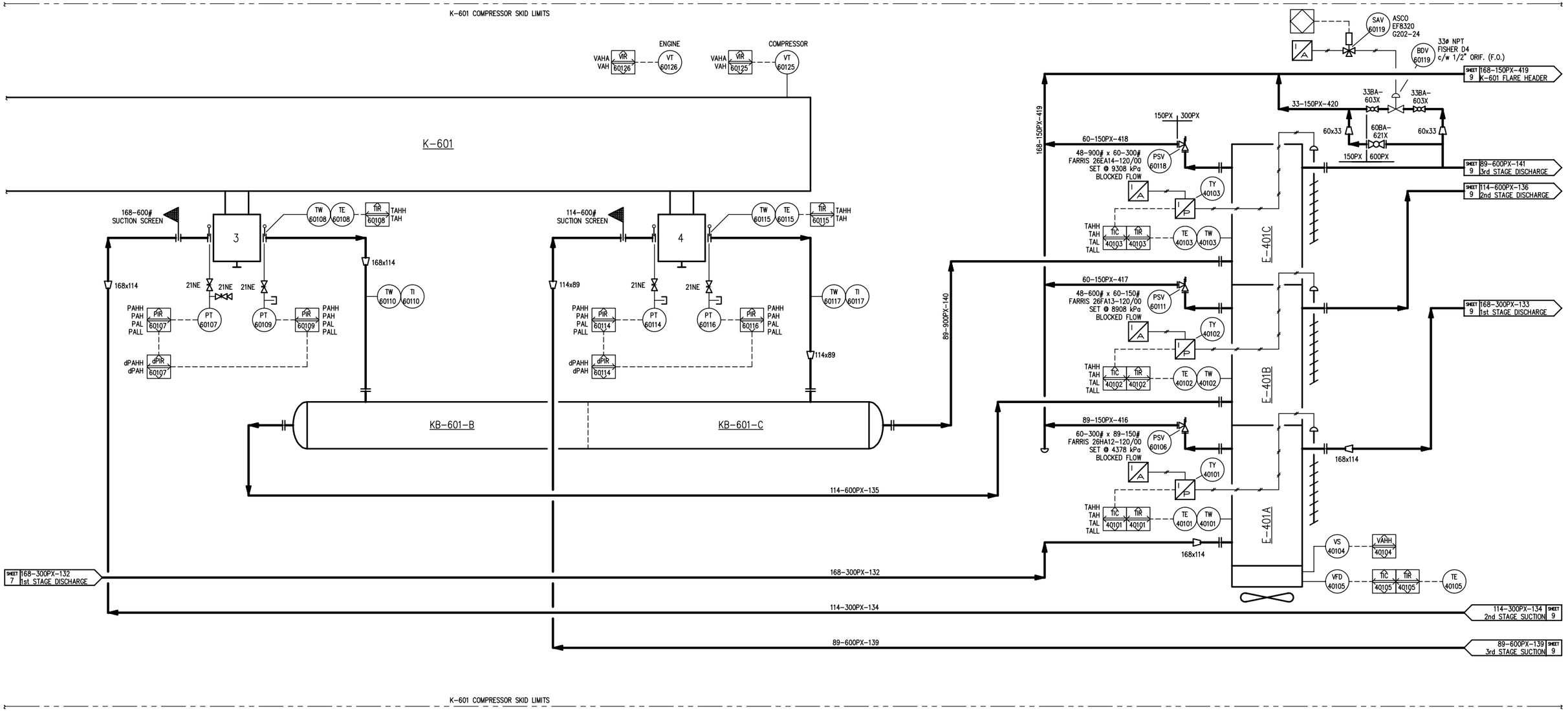
SHEET NUMBER	DRAWING NUMBER	REV
7 OF 42	F-53951-F-00-01	2

K-601
PROCESS COMPRESSOR
ARIEL JGK/4
c/w CATERPILLAR 3516TALE ENGINE

KB-601-B
2nd STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 9308 kPa @ -28/177°C
C.A: 1.6mm

KB-601-C
3rd STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 9308 kPa @ -28/177°C
C.A: 1.6mm

E-401 A/B/C
AIR X-CHANGER
AIR-X-HEMPILL 144ZF
A: 4447 kPa @ -29/177°C
B: 8908 kPa @ -29/177°C
C: 9308 kPa @ -29/177°C
50 HP 40V 3PH TEFC VFD



SHEET NUMBER	DRAWING NUMBER	REV
8 OF 42	F-53951-F-00-01	2

V-107
2nd STAGE SUCTION SCRUBBER
610 O.D. x 1676 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

V-108
2nd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

V-110
3rd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

V-109
3rd STAGE SUCTION SCRUBBER
406 O.D. x 1626 S/S
MAWP: 9067 kPa @ -28/149°C
C.A: 1.6mm

SHEET 168-150PX-419 42 TO FLARE HEADER

XVPACC XVPI 60124 XVPS 60124 168BA-111X

K-601 COMPRESSOR SKID LIMITS

89-600PX-144 SHEET 7 START UP BYPASS

SHEET 168-150PX-419 8 K-601 FLARE HEADER

33ø NPT FISHER D4 c/w 1/2" ORIF. (F.O.) BDV 60112

33-150PX-421 33BA-603X 33BA-603X 60x33 60BA-621X 60x33 150PX 600PX

SAV 60112 ASCO EF8320 G202-24

PI 11001

SHEET 89-600PX-141 8 3rd STAGE DISCHARGE

SHEET 114-600PX-136 8 2nd STAGE DISCHARGE

V-110

LAH 11003 SAV 11003 ASCO EF8320G202-24 33ø NPT FISHER D2 (F.C.) LCV 11003 LSH 11002 LAHH 11002 LSH 11003 LAH 11003

33BA-603X 33BA-603X 21BA-613X

33CH-133X 33BA-603X 150PX 600PX 21BA-613X LG 11004 21BA-613X 21BA-613X

33-150PX-311

PI 10801

V-108

LAH 10803 SAV 10803 ASCO EF8320G202-24 33ø NPT FISHER D2 (F.C.) LCV 10803 LSH 10802 LAHH 10802 LSH 10803 LAH 10803

33-150PX-312 33BA-603X 33BA-603X 21BA-613X

33CH-133X 33BA-603X 150PX 600PX 21BA-613X LG 10804 21BA-613X 21BA-613X

114-300PX-134

SHEET 168-300PX-133 8 1st STAGE DISCHARGE

21NE PI 10701

LAHH 10703 LSH 10703 TW 10702 TI 10702

LAH 10704 LSH 10704 LAH 10704 SAV 10704 ASCO EF8320G202-24

V-107

LG 10705 LCV 10704 33ø NPT FISHER D2

33BA-303X 33BA-303X 48GL-303X

300PX 150PX 21BA-303X 300PX 150PX

48CH-133X

48-150PX-310

89-600PX-142

114-600PX-137

89-600PX-143

89-600# FISHER 657-ET-45 (F.O.) PCV 60120 PY 60120 PIC 60014

89BA-621X (TYP. 3)

114-600PX-145

114BA-621X

89-600PX-139

PI 10901 21NE

LAHH 10903 LSH 10903 LAH 10904 LSH 10904 TW 10902 TI 10902

V-109

LAH 10904 SAV 10904 ASCO EF8320G202-24 LCV 10904 33ø NPT FISHER D2

LG 10905 600PX 150PX 21BA-603X

33BA-603X 48GL-603X 33BA-603X

48-600PX-313 600PX 150PX

48CH-153X 60x48

114BA-621X

114-600PX-138

89-150PX-479 START GAS VENT

XVPS 60123 XVPI 60123 XVPACC

89CH-101X 89BA-111X

60BA-101X

25H&T

38H&T

33BA-103X 60CH-101X 60BA-101X (C.S.O.)

PI 60121 21NE 33BA-603X 89CH-631X 89BA-621X 89BA-621X

PI 60122 21NE 33BA-603X 114CH-631X 114BA-621X

SHEET 89-600PX-210 19 TO AMINE SKID

SHEET 89-600PX-142 35 TO SALES GAS HEADER

SHEET 114-600PX-137 19 TO AMINE SKID

SHEET 114-600PX-138 FROM REFRIG. SKID 26

SHEET 89-150PX-479 42 TO FLARE HEADER

SHEET 60-150PX-254 K-601 START GAS 36

SHEET 60-150IAX-903 INSTRUMENT AIR 37

SHEET 60-150PX-227 K-601 FUEL GAS 36

SHEET 60-150PX-651 K-601 LUBE OIL 34

SHEET 60-150PX-652 34 K-601 WASTE OIL

SHEET 60-150PX-309 40 TO H.C. DRAIN HEADER

SHEET 114-300PX-134 2nd STAGE SUCTION 8

SHEET 89-600PX-139 3rd STAGE SUCTION 8

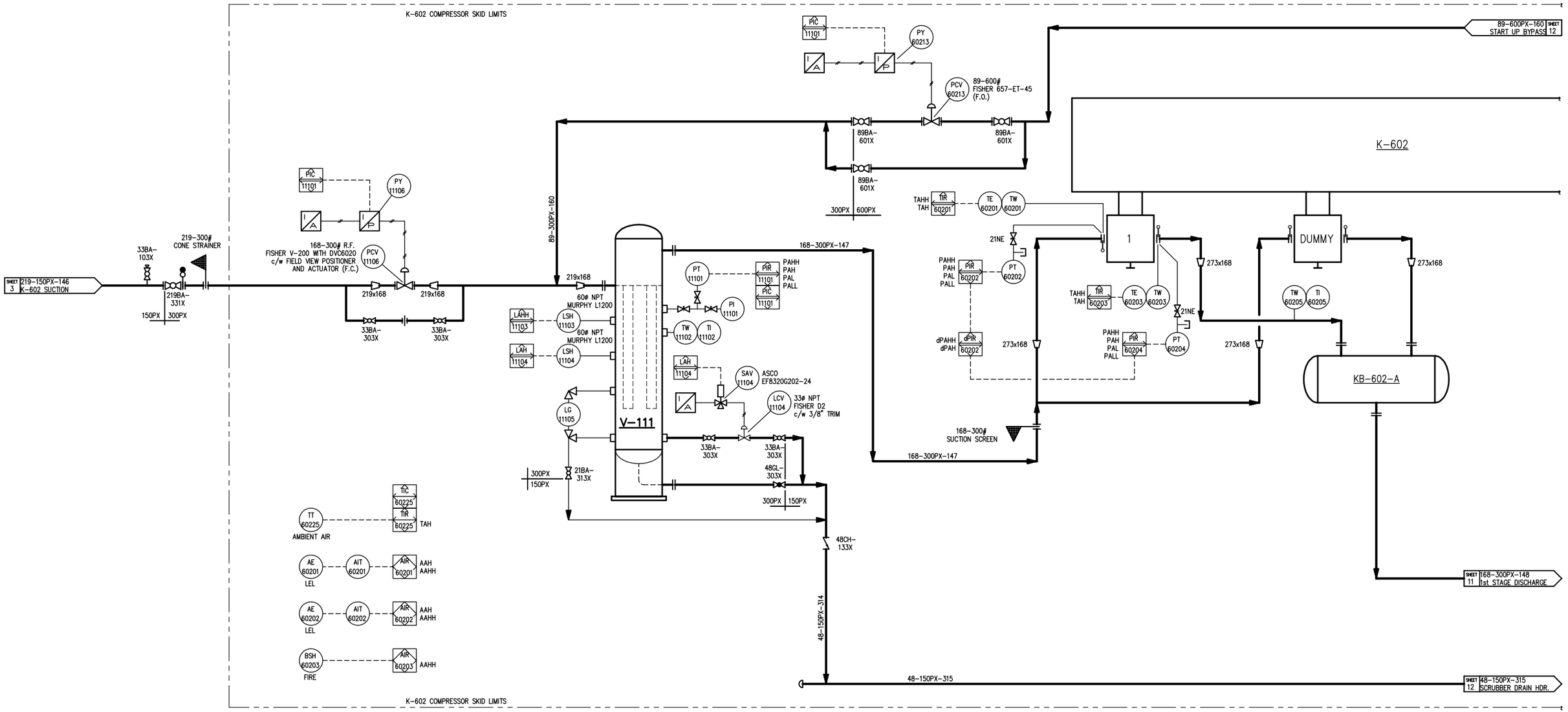
SHEET 48-150PX-309 7 SCRUBBER DRAIN HDR.

K-601 COMPRESSOR SKID LIMITS

SHEET NUMBER	DRAWING NUMBER	REV
9 OF 42	F-53951-F-00-01	2

V-111
1st STAGE GLM CYCLONE VORTEX CLUSTER
762 O.D. x 2134 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

KB-602-A
1st STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 4378 kPa @ -28/177°C
C.A: 1.6mm



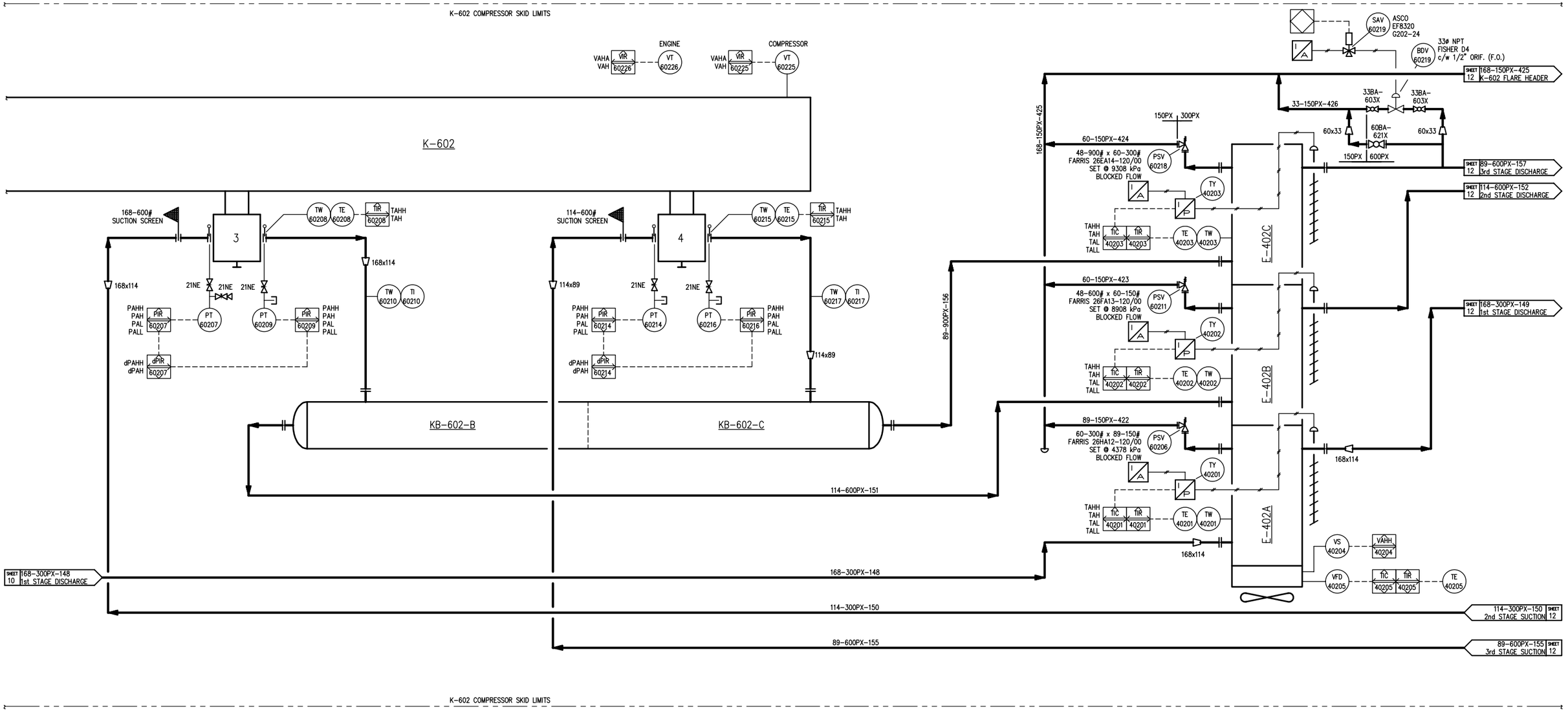
SHEET NUMBER	DRAWING NUMBER	REV
10 OF 42	F-53951-F-00-01	2

K-602
PROCESS COMPRESSOR
ARIEL JGK/4
c/w CATERPILLAR 3516TALE ENGINE

KB-602-B
2nd STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 9308 kPa @ -28/177°C
C.A: 1.6mm

KB-602-C
3rd STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 9308 kPa @ -28/177°C
C.A: 1.6mm

E-402 A/B/C
AIR X-CHANGER
AIR-X-HEMPILL 144ZF
A: 4447 kPa @ -29/177°C
B: 8908 kPa @ -29/177°C
C: 9308 kPa @ -29/177°C
50 HP 40V 3PH TEFC VFD



SHEET NUMBER	DRAWING NUMBER	REV
11 OF 42	F-53951-F-00-01	2

V-112
2nd STAGE SUCTION SCRUBBER
610 O.D. x 1676 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

V-113
2nd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

V-115
3rd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

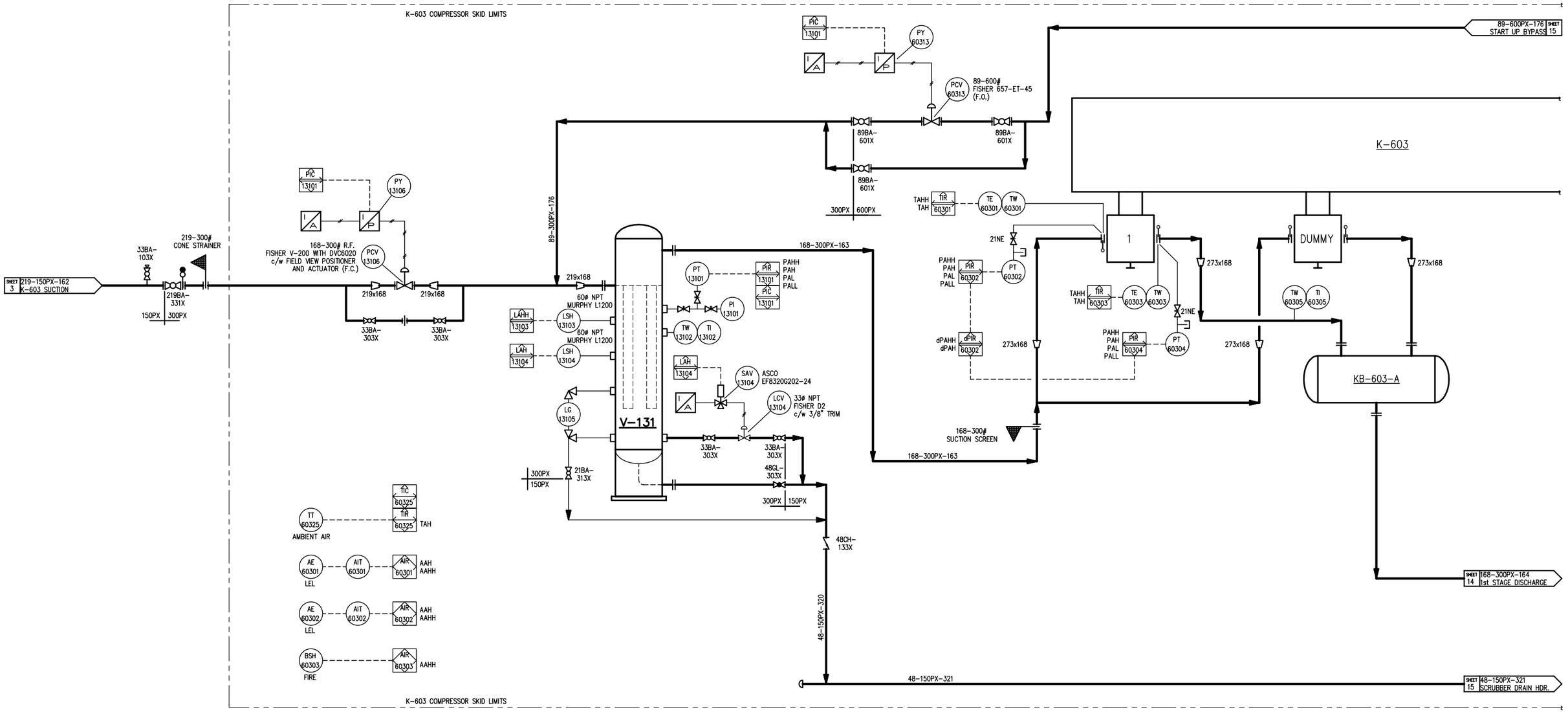
V-114
3rd STAGE SUCTION SCRUBBER
406 O.D. x 1626 S/S
MAWP: 9067 kPa @ -28/149°C
C.A: 1.6mm

XVPACC
XVPI 60224
XVPS 60224
168BA-111X
SHEET 42 168-150PX-425 TO FLARE HEADER
K-602 COMPRESSOR SKID LIMITS
89-600PX-160 SHEET 10 START UP BYPASS
SHEET 11 168-150PX-425 K-602 FLARE HEADER
33ø NPT FISHER D4 c/w 1/2" ORIF. (F.O.)
BDV 60212
33BA-603X
33-150PX-427
60x33
60BA-621X
150PX
600PX
SAV 60212
ASCO EF8320 G202-24
SHEET 11 89-600PX-157 3rd STAGE DISCHARGE
SHEET 11 114-600PX-152 2nd STAGE DISCHARGE
PI 11501
V-115
LAH 11503
SAV 11503
ASCO EF8320G202-24
33ø NPT FISHER D2 (F.C.)
LCV 11503
LSH 11502
LAHH 11502
LSH 11503
LAH 11503
21BA-613X
LG 11504
33CH-133X
150PX
600PX
PI 11301
V-113
LAH 11303
SAV 11303
ASCO EF8320G202-24
33ø NPT FISHER D2 (F.C.)
LCV 11303
LSH 11302
LAHH 11302
LSH 11303
LAH 11303
33-150PX-318
LG 11304
33-150PX-317
89-600PX-158
114-600PX-153
89-600PX-159
89-600# FISHER 657-ET-45 (F.O.)
PCV 60220
PY 60220
PIC 60214
89BA-621X (TYP. 3)
114-600PX-161
114BA-
PI 60221
21NE
33BA-603X
89CH-631X
89BA-621X
PI 60222
114BA-621X
114CH-631X
SHEET 19 89-600PX-211 TO AMINE SKID
SHEET 35 89-600PX-158 TO SALES GAS HEADER
SHEET 19 114-600PX-153 TO AMINE SKID
114-300PX-150
SHEET 11 168-300PX-149 1st STAGE DISCHARGE
21NE
PI 11201
LAHH 11203
LSH 11203
TW 11202
TI 11202
LAH 11204
LSH 11204
V-112
SAV 11204
ASCO EF8320G202-24
LCV 11204
33ø NPT FISHER D2
LG 11205
33BA-303X
48GL-303X
300PX
150PX
21BA-303X
48CH-133X
48-150PX-316
89-600PX-155
PI 11401
21NE
LAHH 11403
LSH 11403
TW 11402
TI 11402
LAH 11404
LSH 11404
V-114
LAH 11404
SAV 11404
ASCO EF8320G202-24
LCV 11404
33ø NPT FISHER D2
LG 11405
600PX
150PX
21BA-603X
33BA-603X
48GL-603X
48-600PX-319
48CH-153X
60x48
114-600PX-154
89-150PX-480 START GAS VENT
114BA-621X
XVPS 60223
XVPI 60223
XVPACC
89CH-101X
89BA-111X
SHEET 26 114-600PX-154 FROM REFRIG. SKID
SHEET 42 89-150PX-480 TO FLARE HEADER
60BA-101X
SHEET 36 60-150PX-255 K-602 START GAS
60-150IAX-904 INSTRUMENT AIR SHEET 37
SHEET 36 60-150PX-228 K-602 FUEL GAS
25H&T
SHEET 34 60-150PX-653 K-602 LUBE OIL
SHEET 60-150PX-654 K-602 WASTE OIL
33BA-103X
60CH-101X
38H&T
SHEET 40 60-150PX-315 TO H.C. DRAIN HEADER
60BA-101X (C.S.O.)
114-300PX-150 SHEET 11 2nd STAGE SUCTION
89-600PX-155 SHEET 11 3rd STAGE SUCTION
SHEET 10 48-150PX-315 SCRUBBER DRAIN HDR.
K-602 COMPRESSOR SKID LIMITS

SHEET NUMBER	DRAWING NUMBER	REV
12 OF 42	F-53951-F-00-01	2

V-131
1st STAGE GLM CYCLONE VORTEX CLUSTER
762 O.D. x 2134 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

KB-603-A
1st STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 4378 kPa @ -28/177°C
C.A: 1.6mm



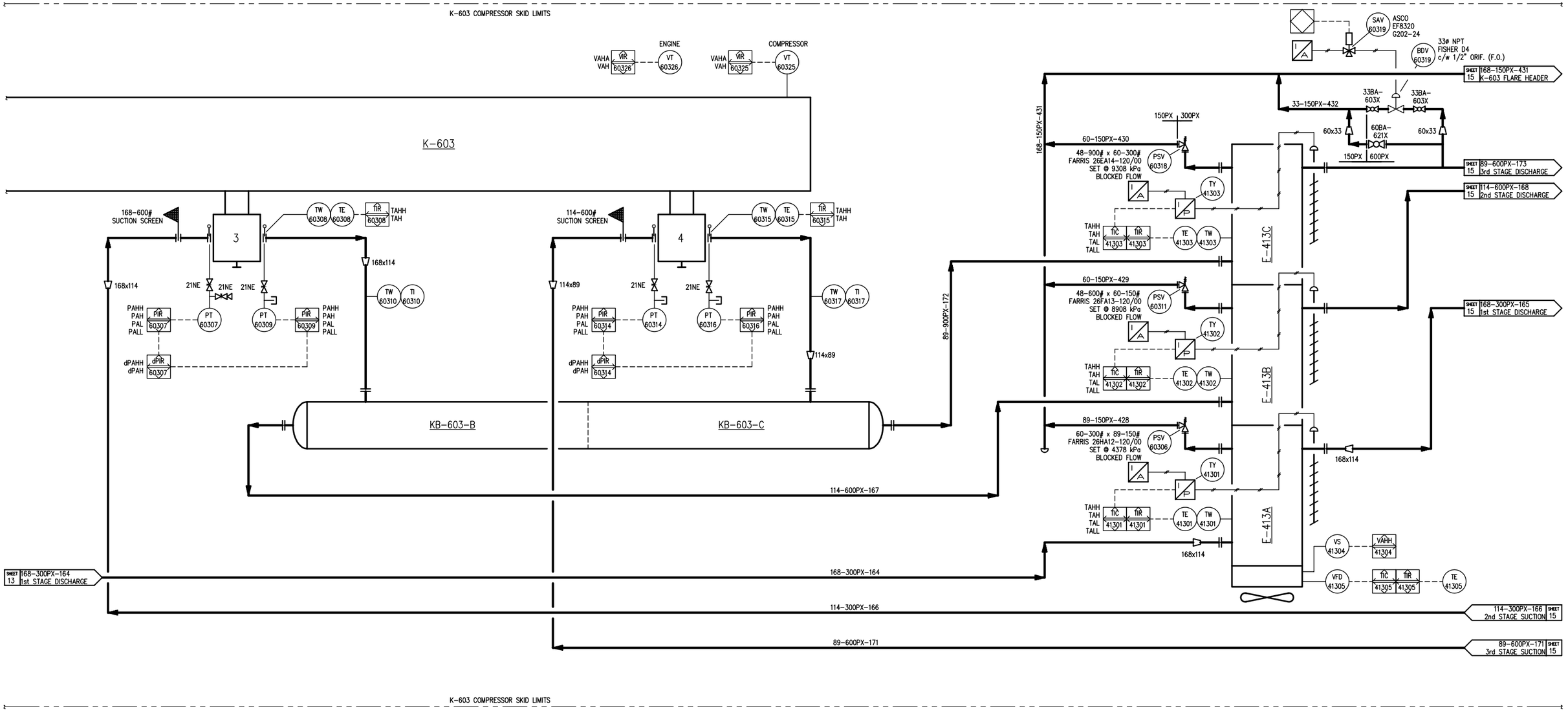
SHEET NUMBER	DRAWING NUMBER	REV
13 OF 42	F-53951-F-00-01	2

K-603
PROCESS COMPRESSOR
ARIEL JGK/4
c/w CATERPILLAR 3516TALE ENGINE

KB-603-B
2nd STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 9308 kPa @ -28/177°C
C.A: 1.6mm

KB-603-C
3rd STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 9308 kPa @ -28/177°C
C.A: 1.6mm

E-413 A/B/C
AIR X-CHANGER
AIR-X-HEMPILL 144ZF
A: 4447 kPa @ -29/177°C
B: 8908 kPa @ -29/177°C
C: 9308 kPa @ -29/177°C
50 HP 40V 3PH TEFC VFD



SHEET NUMBER	DRAWING NUMBER	REV
14 OF 42	F-53951-F-00-01	2

V-132
2nd STAGE SUCTION SCRUBBER
610 O.D. x 1676 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

V-133
2nd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

V-135
3rd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

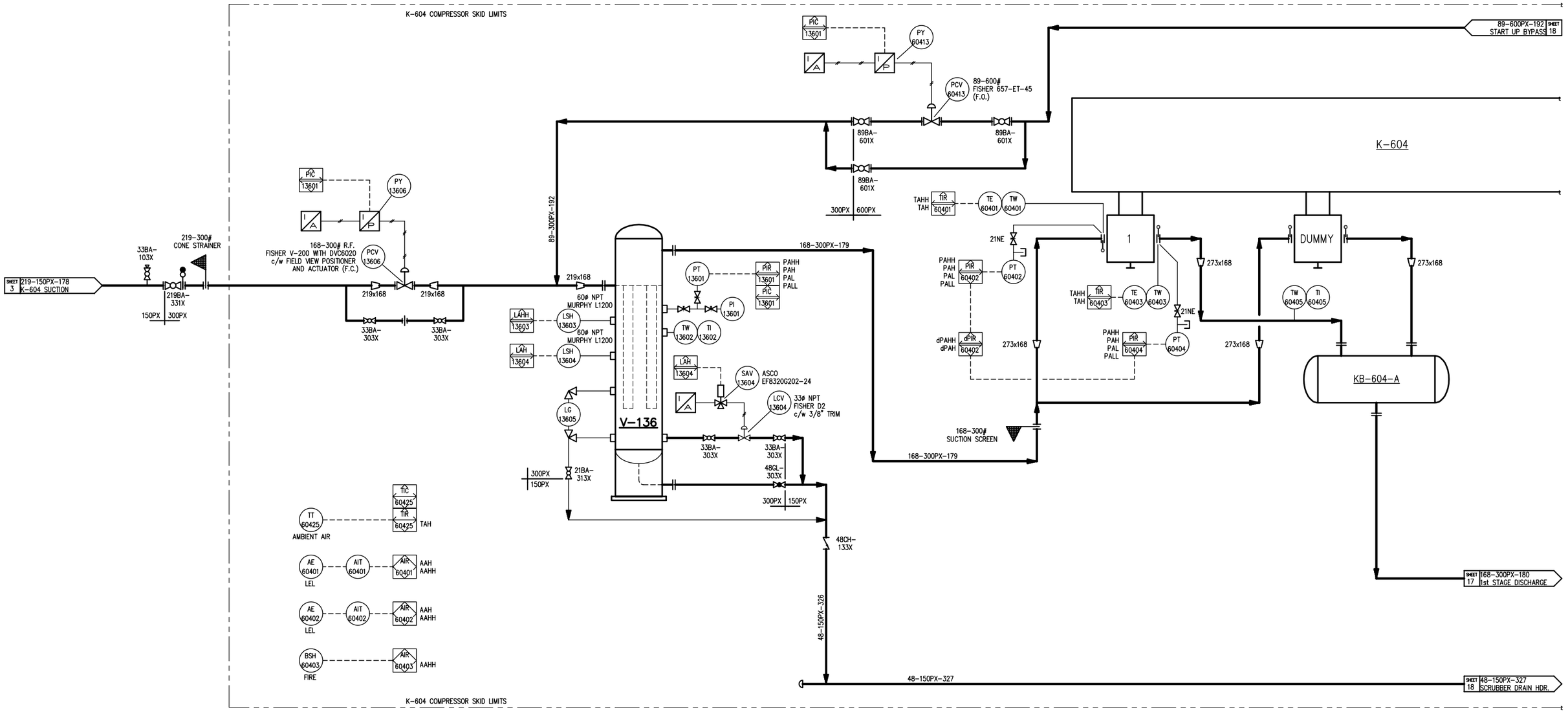
V-134
3rd STAGE SUCTION SCRUBBER
406 O.D. x 1626 S/S
MAWP: 9067 kPa @ -28/149°C
C.A: 1.6mm

XVPACC
XVPI 60324
XVPS 60324
168BA-111X
SHEET 42 168-150PX-431 TO FLARE HEADER
K-603 COMPRESSOR SKID LIMITS
89-600PX-176 SHEET 13 START UP BYPASS
SHEET 14 168-150PX-431 K-603 FLARE HEADER
33ø NPT FISHER D4 c/w 1/2" ORIF. (F.O.)
BDV 60312
33BA-603X
33-150PX-433
60x33
60BA-621X
150PX 600PX
SAV 60312
ASCO EF8320 G202-24
PI 13501
V-135
SHEET 14 89-600PX-173 3rd STAGE DISCHARGE
SHEET 14 114-600PX-168 2nd STAGE DISCHARGE
LAH 13503
SAV 13503
ASCO EF8320G202-24
33ø NPT FISHER D2 (F.C.)
LCV 13503
LSH 13502
LAHH 13502
LSH 13503
LAH 13503
33BA-603X
21BA-613X
LG 13504
33CH-133X
150PX 600PX
21BA-613X
33-150PX-323
PI 13301
V-133
LAH 13303
SAV 13303
ASCO EF8320G202-24
33ø NPT FISHER D2 (F.C.)
LCV 13303
LSH 13302
LAHH 13302
LSH 13303
LAH 13303
33-150PX-324
33BA-603X
21BA-613X
LG 13304
33CH-133X
150PX 600PX
21BA-613X
89-600PX-174
114-600PX-169
PI 60321
21NE
33BA-603X
89CH-631X
89BA-621X
89BA-621X
SHEET 19 89-600PX-213 TO AMINE SKID
SHEET 35 89-600PX-174 TO SALES GAS HEADER
SHEET 19 114-600PX-169 TO AMINE SKID
PI 60322
21NE
33BA-603X
114BA-621X
114CH-631X
89-600PX-175
89-600# FISHER 657-ET-45 (F.O.)
PCV 60320
PY 60320
PIC 60314
89BA-621X (TYP. 3)
114-600PX-177
89-600PX-171
PI 13401
21NE
LAHH 13403
LSH 13403
LAH 13404
LSH 13404
V-134
LG 13405
600PX 150PX
21BA-603X
TW 13402
TI 13402
LAH 13404
SAV 13404
ASCO EF8320G202-24
LCV 13404
33ø NPT FISHER D2
33BA-603X
48GL-603X
48-150PX-325
600PX 150PX
48CH-153X
114-600PX-170
114BA-621X
89-150PX-481 START GAS VENT
XVPS 60323
XVPI 60323
XVPACC
89CH-101X
89BA-111X
SHEET 42 89-150PX-481 TO FLARE HEADER
60-150PX-256 SHEET 36 K-603 START GAS
60BA-101X
60-150IAX-905 SHEET 37 INSTRUMENT AIR
60BA-101X
60-150PX-229 SHEET 36 K-603 FUEL GAS
60BA-101X
60-150PX-655 SHEET 34 K-603 LUBE OIL
25H&T
60BA-101X
SHEET 34 60-150PX-656 K-603 WASTE OIL
25H&T
60BA-101X
SHEET 14 168-300PX-165 1st STAGE DISCHARGE
21NE
PI 13201
LAHH 13203
LSH 13203
TW 13202
TI 13202
LAH 13204
LSH 13204
V-132
LAH 13204
SAV 13204
ASCO EF8320G202-24
LG 13205
LCV 13204
33ø NPT FISHER D2
33BA-303X
33BA-303X
300PX 150PX
21BA-303X
48GL-303X
300PX 150PX
48CH-133X
48-150PX-322
SHEET 14 114-300PX-166 2nd STAGE SUCTION
SHEET 14 89-600PX-171 3rd STAGE SUCTION
SHEET 13 48-150PX-321 SCRUBBER DRAIN HDR.
60x48
33BA-103X
60CH-101X
60BA-101X (C.S.O.)
38H&T
SHEET 40 60-150PX-321 TO H.C. DRAIN HEADER
K-603 COMPRESSOR SKID LIMITS

SHEET NUMBER	DRAWING NUMBER	REV
15 OF 42	F-53951-F-00-01	2

V-136
1st STAGE GLM CYCLONE VORTEX CLUSTER
762 O.D. x 2134 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

KB-604-A
1st STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 4378 kPa @ -28/177°C
C.A: 1.6mm



SHEET NUMBER	DRAWING NUMBER	REV
16 OF 42	F-53951-F-00-01	2

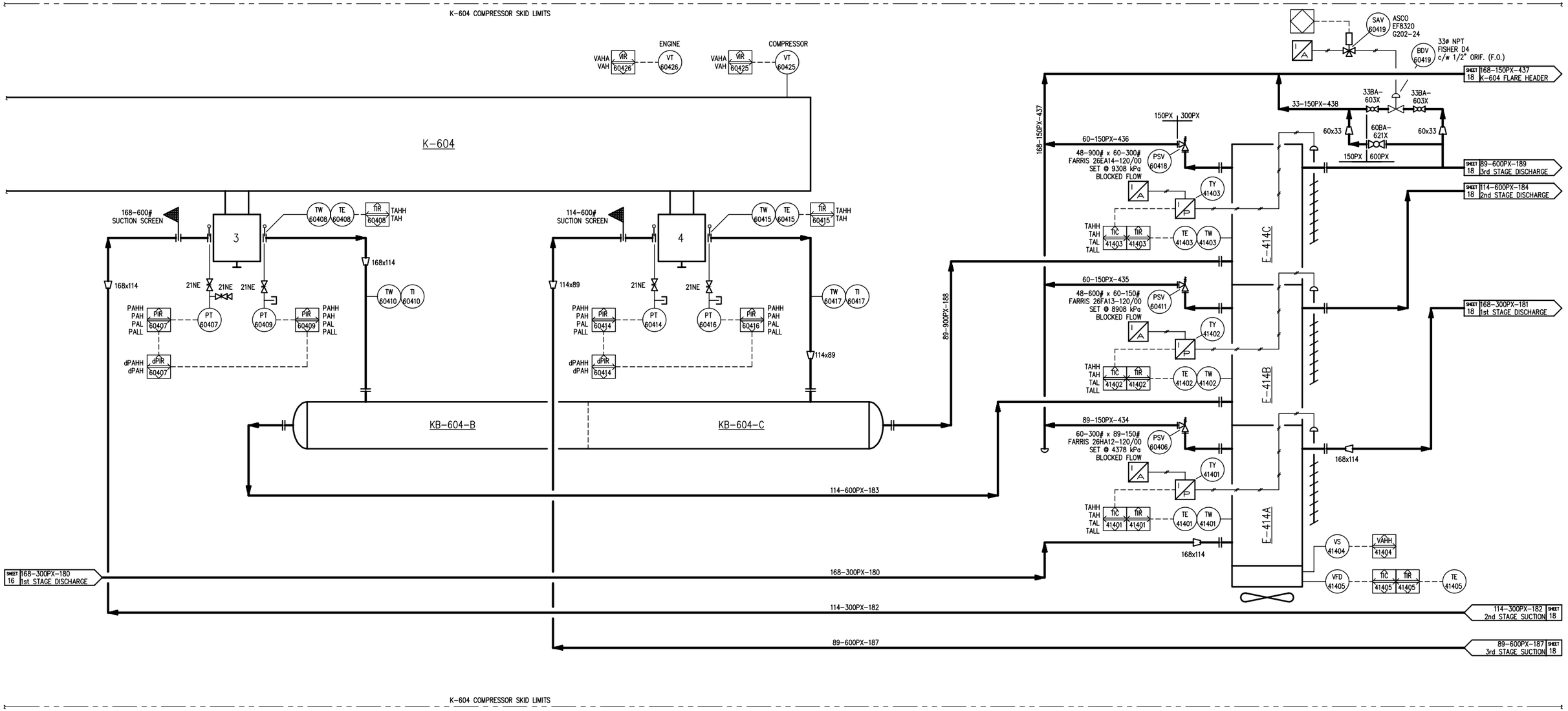
K-604
PROCESS COMPRESSOR
ARIEL JGK/4
c/w CATERPILLAR 3516TALE ENGINE

KB-604-B
2nd STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 9308 kPa @ -28/177°C
C.A: 1.6mm

KB-604-C
3rd STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 9308 kPa @ -28/177°C
C.A: 1.6mm

E-414 A/B/C
AIR X-CHANGER
AIR-X-HEMPILL 144ZF
A: 4447 kPa @ -29/177°C
B: 8908 kPa @ -29/177°C
C: 9308 kPa @ -29/177°C
50 HP 40V 3PH TEFC VFD

K-604 COMPRESSOR SKID LIMITS



K-604 COMPRESSOR SKID LIMITS

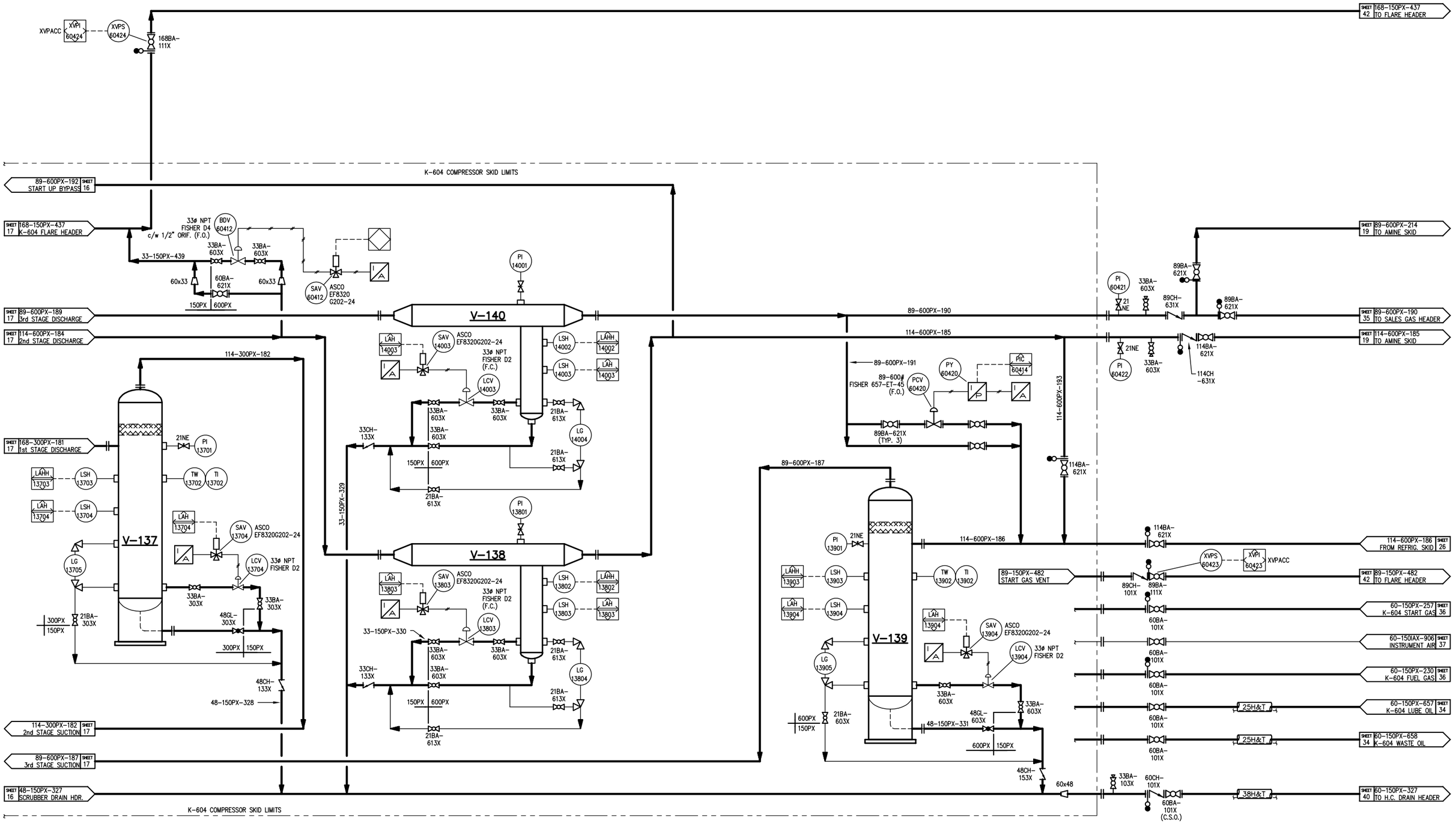
SHEET NUMBER	DRAWING NUMBER	REV
17 OF 42	F-53951-F-00-01	2

V-137
2nd STAGE SUCTION SCRUBBER
610 O.D. x 1676 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

V-138
2nd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

V-140
3rd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

V-139
3rd STAGE SUCTION SCRUBBER
406 O.D. x 1626 S/S
MAWP: 9067 kPa @ -28/149°C
C.A: 1.6mm



SHEET NUMBER	DRAWING NUMBER	REV
18 OF 42	F-53951-F-00-01	2

V-116
FILTER SEPARATOR
610 O.D. x 3048 S/S
D.P: 9308 kPa @ -29/93°C
C.A: 3.2mm

C-300
AMINE CONTACTOR
914 O.D. x 15240 S/S
D.P: 9308 kPa @ -29/93°C
C.A: 3.2mm

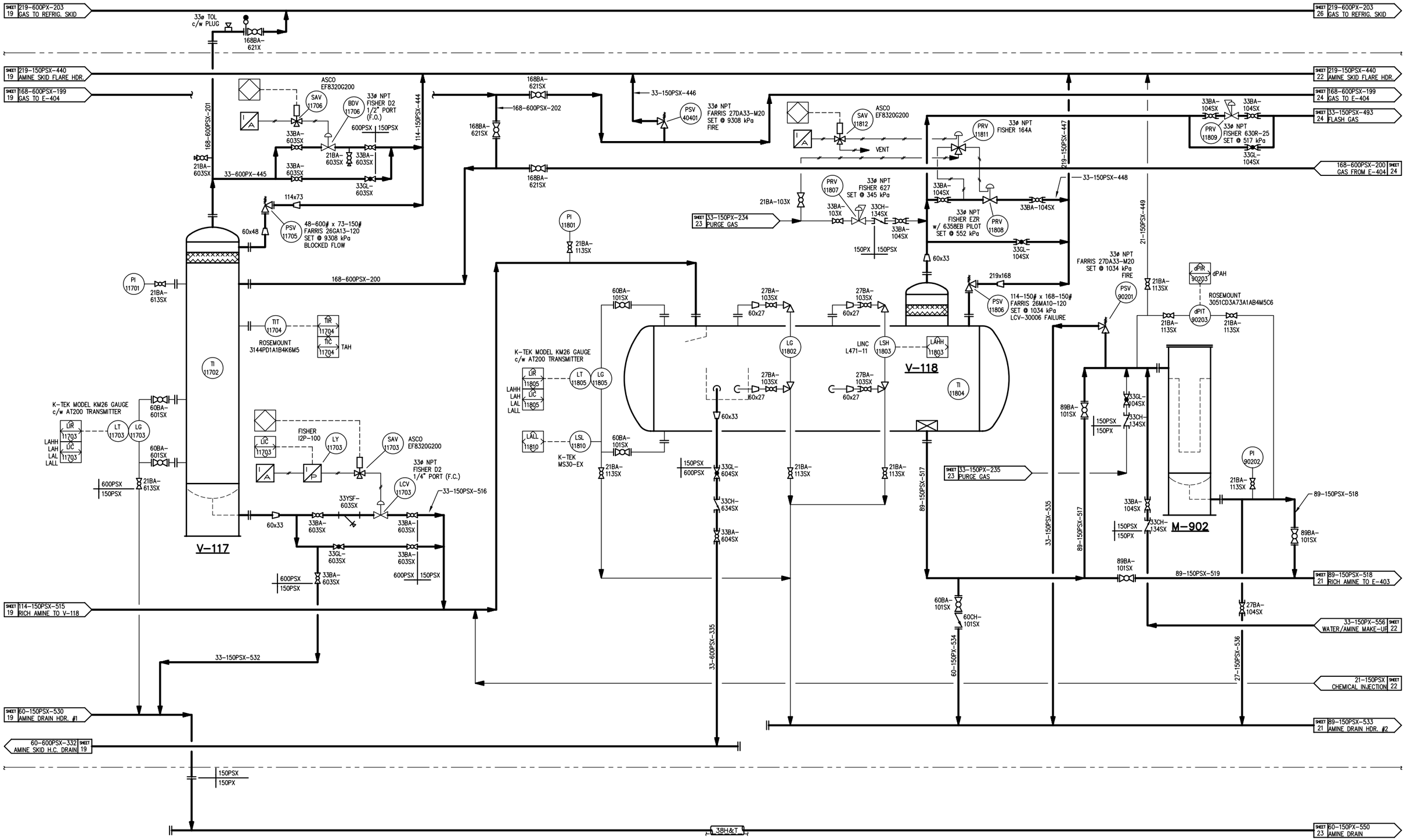
SHEET 89-600PX-213 18 FROM K-604
SHEET 114-600PX-185 18 FROM K-604
SHEET 89-600PX-213 15 FROM K-603
SHEET 114-600PX-169 15 FROM K-603
SHEET 89-600PX-211 12 FROM K-602
SHEET 114-600PX-153 12 FROM K-602
SHEET 89-600PX-210 9 FROM K-601
SHEET 114-600PX-137 9 FROM K-601
SHEET 89-600PX-209 6 FROM K-600
SHEET 114-600PX-121 6 FROM K-600
219-600PX-194 INTERSTAGE DISCHARGE HEADER
168-600PX-195
168BA-631X
33BA-603SX
219BA-621X
600PX 600PSX
219x168
168BA-631SX
219-600PSX-196
33ø TOL c/w PLUG
168BA-621X
600PSX 600PX
SHEET 219-600PX-203 20 GAS TO REFRIG. SKID
SHEET 219-150PSX-440 20 AMINE SKID FLARE HDR.
SHEET 168-600PSX-199 20 GAS TO E-404
168-600PSX-198
FISHER DVC 6020
FIC 30003
FY 11612
SAV 11612
ASCO EF8320G200
FCV 11612
89ø-600# FISHER V-200 c/w 1051-40 ACT. (F.O.)
168x89
ROSEMOUNT 3051CD3A73 A1AB4M5C6
dPIT 30002
dPIR 30002 dPAH
21BA-613SX
TRAY #1 89BA-621SX 25H O/S BLDG.
TRAY #3 89BA-621SX 25H O/S BLDG.
TRAY #5 89BA-621SX 25H O/S BLDG.
TRAY #7 89BA-621SX 25H O/S BLDG.
50H O/S
TRAY #20
AE 30001 AIT 30001 AIR 30001 AAH AAHH LEL
AE 30002 AIT 30002 AIR 30002 AAH AAHH LEL
AE 30003 AIT 30003 AIR 30003 AAH AAHH LEL
AE 30004 AIT 30004 AIR 30004 AAL AALL O2
219-600PSX-197
219BA-621SX
60BA-601SX
27BA-603SX
60ø NPT NORRISEAL 1001A
LG 11607
LC 11608
21BA-613SX
ASCO EF8320G202
SAV 30001
168BA-631SX c/w BETTIS CBA 930SR80-11-CW ACT. (F.C.)
ESDV 30001
168ø-600# V-CONE VH06-A1SN3
PIT-30003 ROSEMOUNT MODEL 3051TG (0-2,000 kPa)
dPIT-30003 ROSEMOUNT MODEL 3051CD (0-62 kPa)
TIT-30003 ROSEMOUNT MODEL 3144P (-20°C TO 100°C)
4-20 mA
PIR 30003 PIT 30003
FAHH FAH FAL FIC 30003 FIR 30003 FIT 30003
TIR 30003 TIT 30003
FE 30003
RTD
33ø NPT FISHER D2 TRIM (F.C.) c/w 3/8" TRIM (F.C.)
LCV 11608
33-600PSX-333
33BA-604SX
33GL-604SX (N.C.)
48-600# x 73-150# FARRIS 26GA13-120 SET @ 9308 kPa BLOCKED FLOW
PSV 30004
114x73
ROSEMOUNT 3144PD1A1B4K6M5
TIR 30010 TAH TAL
TIT 30010
TW 30010
FIR 30009 FAH FAL FALL
FQIT 30009
FE 30009
60-600# R.F. SUR-FLO SF1015-6S-ESP-H-2.0-80
89x60
89-600PSX-508 SHEET 22 LEAN AMINE TO C-300
33BA-603SX
168-150PSX-441
PI 11606
TI 11605
PSV 11604
60-600# x 89-150# FARRIS 26HA13-120 SET @ 9308 kPa BLOCKED FLOW
168x89
168x33
33GL-601SX
60x33
150PSX 600PSX
ROSEMOUNT 3051CD3A73A1AB4M5C6
dPIT 11602
dPIR 11602 dPAH
60ø NPT LINC L471-11
LAHH 11603
LSH 11603
60x27
27BA-603SX
PI 11601
60x21
21BA-613SX
219BA-621SX
150PX 600PSX
33GL-604SX
SHEET 33-150PX-233 23 PURGE GAS
33CH-634SX
LAHH 11611
LSH 11611
60ø NPT LINC L471-11
33-600PSX-334
Y-STRAINER
33CH-633SX
V-116
K-TEK MODEL KM26 GAUGE c/w AT200 TRANSMITTER
LIR 30006
LT 30006
LG 30006
LAHH LAH LAL LALL
LIC 30006
60BA-601SX
600PSX 150PSX
21BA-613SX
60-150PSX-531
60GL-601SX
50PSX 600PSX
TI 30005
457ø MANWAY
C-300
21BA-613SX
PI 30007
60x21
33-600PSX-514
ASCO EF8320G200
SAV 30006
LY 30006
LIC 30006
33GL-604SX
600PSX 150PSX
60-600# R.F. FISHER D c/w 667-40 ACT. 3/4" PORT (F.C.)
LCV 30006
114BA-621SX
114x60
21BA-603X
33BA-604X
33GL-604X
SHEET 114-150PSX-515 20 RICH AMINE TO V-118
SHEET 60-150PSX-530 20 AMINE DRAIN HDR. #1
33BA-603X
60BA-601X
60CH-601X
150PX 600PX
60-600PSX-332
SHEET 60-600PSX-332 AMINE SKID H.C. DRAIN 20
38H&T
SHEET 60-150PX-332 40 TO H.C. DRAIN HEADER

SHEET NUMBER	DRAWING NUMBER	REV
19 OF 42	F-53951-F-00-01	2

V-117
SWEET GAS SCRUBBER
914 O.D. x 2438 S/S
D.P: 9308 kPa @ -29/93°C
C.A: 3.2mm

V-118
RICH AMINE FLASH TANK
914 O.D. x 3048 S/S
D.P: 1034 kPa @ -29/93°C
C.A: 3.2mm

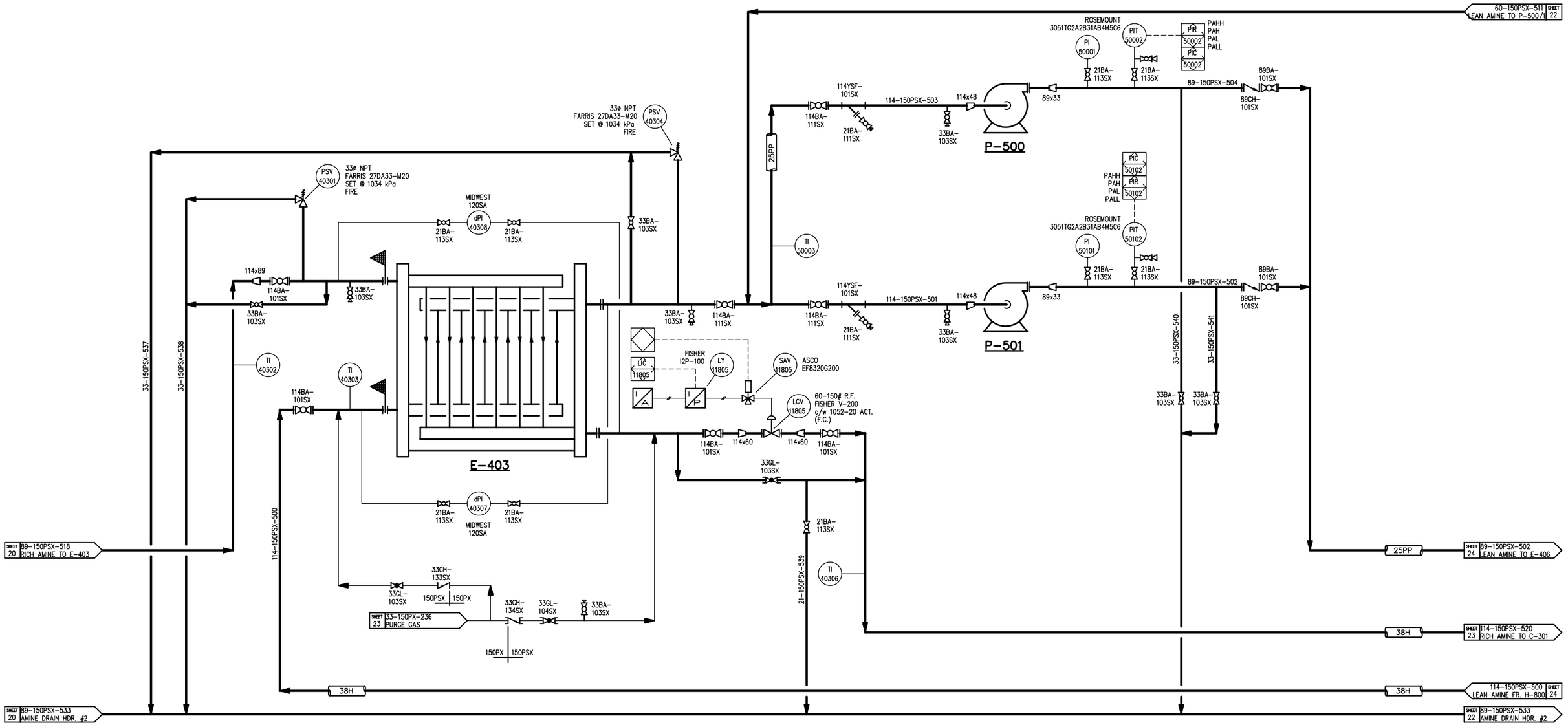
M-902
RICH AMINE PARTICLE FILTER
406 O.D. x 1549 S/S
D.P: 1793 kPa @ -29/93°C
C.A: 3.2mm



SHEET NUMBER	DRAWING NUMBER	REV
20 OF 42	F-53951-F-00-01	2

E-403
LEAN/RICH AMINE EXCHANGER
VIEX PLATE MODEL VX-45-SS-FS-1-100
DUTY: 1.695 MM BTU/HR.
D.P: 1034 kPa @ -29/149°C

P-500/501
LEAN AMINE BOOSTER PUMPS
DEAN MODEL CNV 206 1-1/2 x 1 x 6
7.5 H.P. X.P. MOTOR 3600 R.P.M.
230-460/3/60 VFD



SHEET NUMBER	DRAWING NUMBER	REV
21 OF 42	F-53951-F-00-01	2

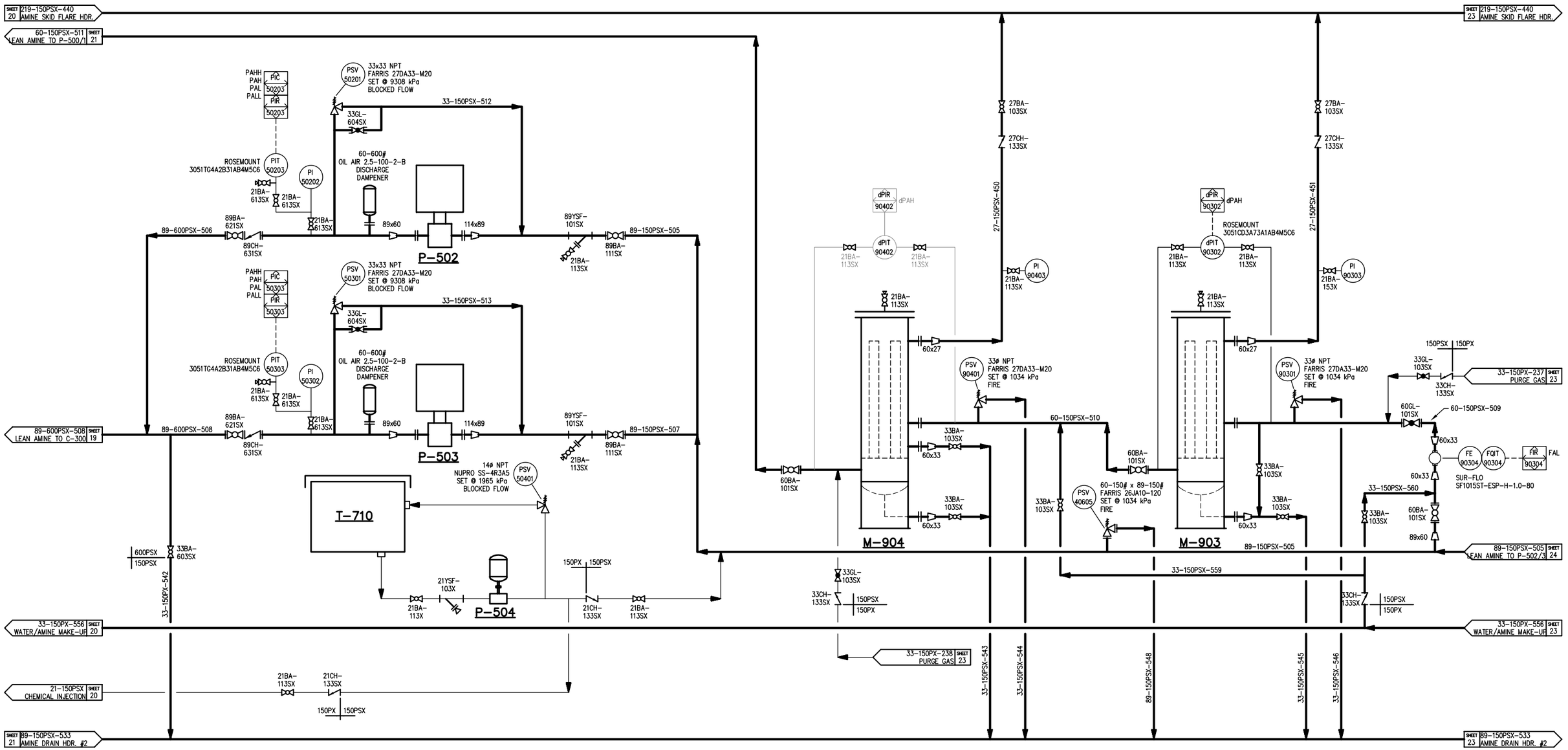
T-710
CHEMICAL TANK
5 GALLON

P-504
CHEMICAL INJECTION PUMP
WESTERN MODEL MA#3 3/8YY1/3
1/3 H.P. X.P. MOTOR
120/208V/1/60

P-502/503
LEAN AMINE CHARGE PUMPS
DUPLEX S.S. TRIPLEX MODEL M1422SS
60 H.P., 1200 R.P.M. X.P. MOTOR
230-460/3/60 c/w VFD

M-904
AMINE CARBON FILTER
406 O.D. x 1118 S/S
D.P: 1793 kPa @ -29/93°C
C.A: 3.2mm

M-903
LEAN AMINE PARTICULATE FILTER
168 O.D. x 1524 S/S
D.P: 1793 kPa @ -29/93°C
C.A: 3.2mm



SHEET NUMBER	DRAWING NUMBER	REV
22 OF 42	F-53951-F-00-01	2

P-505/506
REFLUX PUMPS
DEAN MODEL 3/4 DL
2 H.P. X.P. MOTOR, 3550 R.P.M.
230/460V/3/60

C-301
AMINE REGENERATOR
914 O.D. x 15240 S/S
D.P: 517 kPa @ -29/149°C
C.A: 3.2mm

C-302
REFLUX ACCUMULATOR
914 O.D. x 1829 S/S
D.P: 517 kPa @ -29/149°C
C.A: 3.2mm

P-507
WATER/AMINE MAKE-UP PUMP
DEAN MODEL 3/4 DL
c/w 2 H.P. X.P. MOTOR
3550 R.P.M. 230/460V/3/60

SHEET 219-150PX-440 42 TO FLARE HEADER
SHEET 114-150PX-492 42 TO VENT HEADER
38H&T
219BA-131X (C.S.O.)
33ø TOL c/w PLUG
150PX
150PSX
219x168
SHEET 168-150PSX-452 FROM PSV 80005 24
SHEET 219-150PSX-440 22 AMINE SKID FLARE HDR.
33-150PSX-243
33BA-103SX (C.S.C.)
33-150PX-240
33BA-103X
33x14
FI 50504
FE 50504
21GL-103X
33CH-133SX
150PSX
150PX
33x21
HEDLAND H271A-005
33BA-103X (N.C.)
33GL-103X
25H
21BA-113SX
TW 30105
TI 30106
PI 30107
TIR 30105
TT 30105
ROSEMOUNT 3144PD1A1B4K6
33ø NPT FISHER D4 1/4" PORT (F.C.)
LCV 30101
33-150PSX-526
38H 0/S
33BA-104SX
21BA-113SX
33GL-104SX
60x33
dPIT 30104
dPIR 30104
dPAH
ROSEMOUNT 3051CD3A73A1AB4M5C6
TRAY #1
TRAY #5
50H 0/S
TRAY #20
C-301
114-150PSX-520
SAV 30206
ASCO EF8320G202
TI 30102
PAL PALL
FAH FAL
PIR 30205
PIT-30205 ROSEMOUNT MODEL 3051TG (0-2,000 kPa)
dPIT-30205 ROSEMOUNT MODEL 3051CD (0-62 kPa)
TIT-30205 ROSEMOUNT MODEL 3144P (-20°C TO 100°C)
4-20 mA
SHEET 168-150PSX-522 VAPOUR TO C-301 24
SHEET 114-150PSX-523 24 OVERHEADS TO E-405
114-150PSX-492
SHEET 33-150PX-233 PURGE GAS TO V-116 19
SHEET 33-150PX-234 PURGE GAS TO FLARE 20
SHEET 33-150PX-235 PURGE GAS TO M-902 20
SHEET 33-150PX-236 PURGE GAS TO E-403 21
SHEET 33-150PX-237 PURGE GAS TO M-903 22
SHEET 33-150PX-238 PURGE GAS TO M-904 22
33ø NPT SUR-FLO SF1015ST-ESP-H-1.0-80
FE 50503
FIT 50503
FIR 50503
FAH
33-150PSX-529
33ø NPT FISHER D4 1/4" PORT (F.O.)
LCV 30201
PI 50502
PI 50501
PI 50601
33-150PSX-528
33-150PSX-527
33-150PSX-526
33GL-104SX
33CH-134SX
21BA-113SX
33x27
P-505
P-506
33YSF-104SX
33-150PSX-525
33-150PSX-547
LC 30201
60ø NPT NORRISEAL 1001A
60BA-101SX
TI 30202
C-302
LG 30204
27BA-103SX
60x27
PI 30203
FISHER 4150KR
PIC 30206
21NE
PIT 30205
FIT 30205
TIT 30205
114-150# FISHER V-200 c/w 1051-40 ACT. (F.O.)
PCV 30206
RTD
114BA-101SX
114CH-121SX
114GL-101SX
FE 30205
114-150# V-CONE VH04-A1SN3
114-150PSX-524 REFLUX LIQ. FR. E-405 24
FE 50701
33ø NPT BARTON F500-1 FLOCO FLOW METER
33-150PX-556 WATER/AMINE MAKE-UP 22
21BA-113X
33YSF-103X
33CH-133X
33BA-103X
150PX
150PSX
P-507
33-150PX-555 FRESH AMINE 24
33-150PX-554 MAKE-UP WATER 24
33-150PSX-557
33-150PSX-558
38H
SHEET 114-150PSX-520 21 RICH AMINE TO C-301
SHEET 89-150PSX-533 22 AMINE DRAIN HDR. #2
SHEET 168-150PSX-521 24 RICH AMINE TO H-800
SHEET 60-150PX-241 24 FUEL GAS
33-150PX-561
60BA-101X
60-150PX-232 FUEL GAS 35
SHEET 60-150PX-550 20 AMINE DRAIN
38H&T
89x60
SHEET 89-150PSX-550 24 AMINE DRAIN

SHEET NUMBER	DRAWING NUMBER	REV
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E-404
SWEET GAS COOLER
CALHEX 2.0 x 18 x 4RF AERIAL COOLER
D.P: 9308 kPa @ -29/66°C

E-406
LEAN AMINE COOLER
CALHEX 6.5 x 18 x 4RF AERIAL COOLER
D.P: 1034 kPa @ -29/149°C

E-405
REFLUX CONDENSER
CALHEX 3.6 x 18 x 4RF AERIAL COOLER
D.P: 517 kPa @ -29/149°C

H-800
AMINE REBOILER
1676 O.D. x 12192 S/S
D.P: 345 kPa @ -29/149°C
3.5 MMBTU/HR.
INTEGRAL 1067mm SURGE CAPACITY

168-150PSX-452 FROM PSV 80005 SHEET 23
SHEET 20 168-600PSX-199 GAS FROM C-300
SHEET 20 33-150PSX-493 FLASH GAS
168-600PSX-200 GAS TO V-117 SHEET 20
168-150PSX-522 VAPOUR TO C-301 SHEET 23
SHEET 23 114-150PSX-523 OVERHEADS TO E-405
114-150PSX-524 REFLUX LIQ. TO C-302 SHEET 23
89-150PSX-505 LEAN AMINE TO M-903 SHEET 22
SHEET 21 89-150PSX-502 LEAN AMINE TO E-406
33-150PSX-555 FRESH AMINE SHEET 23
33-150PSX-554 MAKE-UP WATER SHEET 23
114-150PSX-500 LEAN AMINE TO E-403 SHEET 21
SHEET 23 168-150PSX-521 RICH AMINE FR. C-301
SHEET 23 60-150PX-241 FUEL GAS
SHEET 23 89-150PSX-550 AMINE DRAIN

25H DO NOT POCKET
38H&T
60BA-101X
60-150IAX-908 INSTRUMENT AIR SHEET 37
60x33
33x21

E-404
E-405
E-406

TIC 11704 TY 40402 FISHER I2P-100
FISHER I2P-100 TY 40602 TIR 40602 TT 40602 ROSEMOUNT 3144PD1A1B4K6 TW 40602 TI 40601
TIC 40502 TY 40504 FISHER I2P-100
FISHER I2P-100 TY 40506 TIC 40506
TIC 40603 TIR 40603 TAH TAL
TIC 40502 TIR 40502 TAH TAL TALL
TT 40502 TW 40502 ROSEMOUNT 3144PD1A1B4K6
TI 40501
21BA-103SX
21CH-103SX TI 40503
TT 40603 TW 40603 ROSEMOUNT 3144PD1A1B4K6
TI 40604
VSH 40605 VAHH 40605 ROSEMOUNT 3144PD1A1B4K6
TW 40506 TT 40506 TIR 40506 TIC 40506

SET 207 kPa 14 NPT FISHER 67C PRV 80024
TSH 80004 PI 80025 SAV 80026 TIC 80008 TY 80018 FAIRCHILD TCX1-7800-403EN
14BA-103SX PI 80027
SAV 80029 VENT
SCV 80028 SMC AS3500
33 NPT FISHER D2 10mm ORIFICE SDV 80016 PI 80017 21BA-103SX
33 NPT FISHER D4 TCV 80018 PI 80019 21BA-103SX PI 80020 21BA-103SX
33BA-103SX
PILOT GAS
PI 80015 21BA-103SX
SET @ 103 kPa 33 NPT FISHER 627 PRV 80012 PI 80014 21BA-103SX
33BA-103SX 150PSX 150PX 33BA-103SX 33CH-103SX
33CH-103X 33BA-103X 33YSF-103SX
NAGY ELECTRONIC FLAME CONTROL (24 VCD)
SET @ 28 kPa 14 NPT FISHER 67C 7-34 kPa PRV 80022
PI 80023 14BA-103X
33ø NPT FISHER 627 PRV 80010
33CH-103X 33BA-103X 33BA-103X 60x33
14BA-103X

38H
60-150PSX-552 TRUCK IN 60BA-101SX
89-150ø x 114-150ø FARRIS 26LA10-120 SET @ 345 kPa FIRE PSV 80005 168x114
PAHH PAH PAL PIR 80007 ROSEMOUNT 3051TG2A2B31AB4M5C6
PI 80006 PIT 80007 21BA-113SX 21BA-113SX 21BA-113SX
TAHH TAH TAL TALL TIR 80009 TIC 80009
TIT 80008 ROSEMOUNT 3144PD1A1B4K6M5 TW 80008
168x114 168x114 168x114 168x114

H-800
50BØ MANWAY
27BA-103SX LG 80001 27BA-103SX 21BA-113SX
33GA-103SX LINC L471-11 LSL 80002 LALL 80002 33BA-103SX 21BA-113SX
33GA-103SX LINC L471-11 LSL 80013 LALL 80013 33BA-103SX 21BA-113SX
38H
TSH 80004 KIMRAY T18-DA TI 80003
IGN 80021 FFSD 80004
114BA-111SX 60BA-101SX 60BA-101SX
168x114 168x114

38H&T
TI 80009
33ø NPT FISHER 627 SET @ 345 kPa PRV 80011
60x33 33BA-103X 33BA-103X
60-150PSX-551 TRUCK OUT 60BA-101SX
60-150PSX-553 150PSX 150PX

SAV 40505 ASCO EF8320G202 PRV 40507 33 NPT FISHER 627 SET@ 138 kPa
33BA-103SX

60-150PSX-555 FRESH AMINE SHEET 25
60-150PX-554 MAKE-UP WATER SHEET 25

SHEET NUMBER	DRAWING NUMBER	REV
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T-705
FRESH AMINE TANK
2896ø x 2438 HIGH
100 bbl

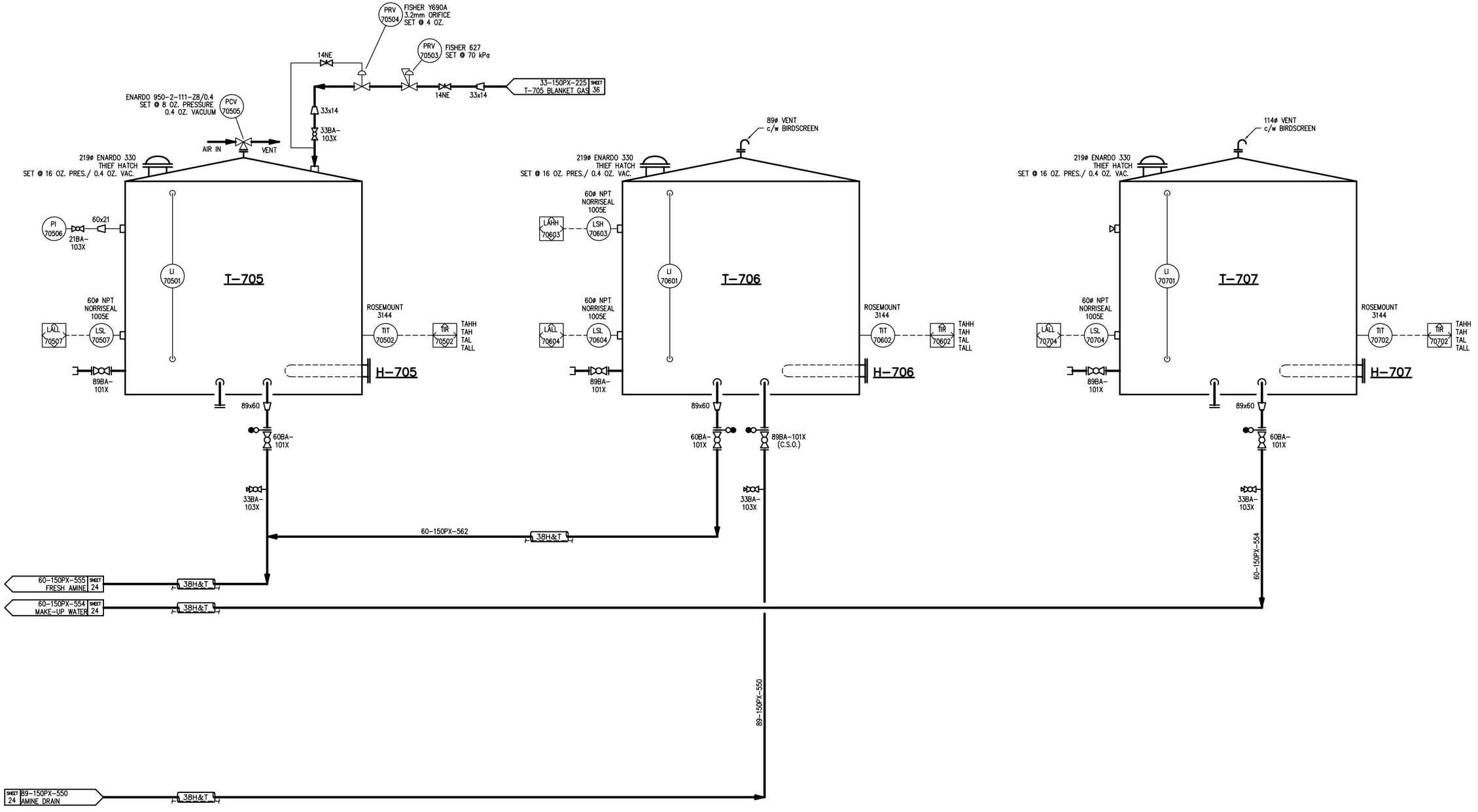
H-705
IMMERSION TANK HEATER
CALORITECH MODEL MXI303F368TX
480 VOLT, 3 PHASE, 5kW
68" INSERTION LENGTH
X.P. TERMINAL BOX
149°C TO 371°C PILOT DUTY CYCLING HIGH LIMIT

T-706
AMINE DRAIN TANK
2896ø x 2438 HIGH
100 bbl

H-706
IMMERSION TANK HEATER
CALORITECH MODEL MXI303F368TX
480 VOLT, 3 PHASE, 5kW
68" INSERTION LENGTH
X.P. TERMINAL BOX
149°C TO 371°C PILOT DUTY CYCLING HIGH LIMIT

T-707
MAKE-UP WATER TANK
3658ø x 3048 HIGH
200 bbl
INTERNALLY COATED

H-707
IMMERSION TANK HEATER
CALORITECH MODEL MXI304F387TX
480 VOLT, 3 PHASE, 4kW
87" INSERTION LENGTH
X.P. TERMINAL BOX
149°C TO 371°C PILOT DUTY CYCLING HIGH LIMIT



SHEET NUMBER	DRAWING NUMBER	REV
25 OF 42	F-53951-F-00-01	2

E-407A/B
GAS/GAS EXCHANGER
24-576 NEN TEMA "C"
TS/SS: 9749 kPa @ -45/66°C, 1.6mm C.A.
DESIGN DUTY: 4,677,790 BTU/HR

V-127
FUEL GAS SCRUBBER
273 O.D. x 737 HIGH
D.P: 1034 kPa @ -29/66°C, 1.6mm C.A.
ALCO STANDARD

SHEET 20 219-600PX-203 GAS FROM AMINE SKID

SHEET 42 114-150PX-453 TO FLARE HEADER

SHEET 35 219-600PX-217 TO SALES GAS HEADER

REFRIGERATION SKID LIMITS

114-150PX-453

SHEET 27 114-150PX-453 REFRIG. FLARE HEADER

114BA-131X (C.S.O.)

60-600# x 89-150# FARRIS 26HA13-120 SET @ 9308 kPa

PSV 40701

89-150PX-488

219-600PX-217

219BA-621X

273x219

273-600PX-203

219-600PX-207

168GL-601X

33BA-603X

SHEET 18 114-600PX-186 TO K-604

SHEET 15 114-600PX-170 TO K-603

SHEET 12 114-600PX-154 TO K-602

SHEET 9 114-600PX-138 TO K-601

SHEET 6 114-600PX-122 TO K-600

INTERSTAGE SUCTION HEADER

SHEET 36 60-150PX-231 FUEL GAS

60x33

33-150PX-454

33x33 NPT SET @ 862 kPa

PSV 12702

SET @ 689 kPa

PRV 12701

PI 12703

21NE

SHEET 29 33-150PX-231 FUEL GAS

600PX 150PX

HLSD 12704

21BA-103X

V-127

dPAH

dPIR 40704

dPIT 40704

14NE

TI 40702

TI 40707

33BA-603X

33CH-603X

PI 40703

PI 40706

SHEET 27 219-600PX-204 GAS TO E-408

219x114

114x89

SHEET 35 89-600PX-251 TO V-125 F.G. SCRUB.

21GA-604X

PI 40709

PI 40711

33-600PX-708

33-600PX-709

33x21

21YSF 604X

FI 40708

FI 40710

21CH-604X

21GL-604X

21BA-603X

21BA-609X

33ø

27ø DRAIN

E-407A

E-407B

38 C

219ø-600#

273ø-600#

273x219

dPAH

dPIR 40705

dPIT 40705

PI 40802

TI 40801

TO dPIT-40705 SHEET 27

FISHER 67 CFR

PRV

TYPICAL I.A. SUPPLY

33BA-103X

SHEET 37 60-150IAX-907 INSTRUMENT AIR

60x33

219-600PX-204

219-600PX-206

38C

SHEET 28 219-600PX-206 GAS FROM V-120

60x48

SHEET 29 48-600PX- CONDENSATE INLET

33-600PX-701 SHEET 27 LEAN GLYCOL

REFRIGERATION SKID LIMITS

SHEET NUMBER	DRAWING NUMBER	REV
26 OF 42	F-53951-F-00-01	2

E-408
GAS CHILLER

33/46-168 BKU TEMA 'C'
TS: 9749 kPa @ -46/66°C, 1.6mm C.A.
SS: 2068 kPa @ -46/66°C, 1.6mm C.A.
DESIGN DUTY: 1,133,048 BTU/HR

REFRIGERATION SKID LIMITS

114-150PX-453 REFRIG. FLARE HEADER SHEET 26

114-150PX-453 REFRIG. FLARE HEADER SHEET 28

38C 168-300PX-604 DO NOT POCKET

SHEET 31 168-300PX-604 PROPANE VAPUOUR

DO NOT POCKET

114-150PX-456

89-300#RF X 114-150#RF SET @ 2068 kPa

PSV 40806

168ø-300#

PI 40805

21NE

38C 168x114 (F.O.B.) 38C 168x114 (F.O.B.)

SHEET 26 219-600PX-204 GAS FROM E-407B

38C 219-600PX-204

21GA-604X

21GA-604X 21YSF 604X 21GA-604X FI 40811 21GA-604X 21CH-604X 21GL-604X

33x21

21BA-

PI 40812

14NE

21BA-609X

219ø-600#

219ø-600#

51C

TI 40804

LI 40807

LI 40808

LI 40809

E-408

48BA-303X

48BA-303X

LC 40810

21GA-303X

300PX 150PX

TO dPIT-40705 SHEET 26

14NE dPIT 40803 14NE

dPAH dPIR 40803

33GA-303X

33GL-303X

33-150PX-455

33-150PX-338

300PX 150PX

33-150PX-707

219-600PX-205

38C

114-300PX-603

LCV 40810

60BA-301X

60BA-301X

114X60

38C

33BA-303X

21BA-303X

F.C.

21BA-303X

48GL-303X

38C SHEET 28 219-600PX-205 GAS TO V-120

25C 60-300PX-603 PROPANE FROM E-409 SHEET 28

48-300PX-613 HOT GAS BYPASS SHEET 33

SHEET 28 60-150PX-337 H.C. DRAIN

33-600PX-701 LEAN GLYCOL SHEET 26

33-600PX-701 LEAN GLYCOL SHEET 28

REFRIGERATION SKID LIMITS

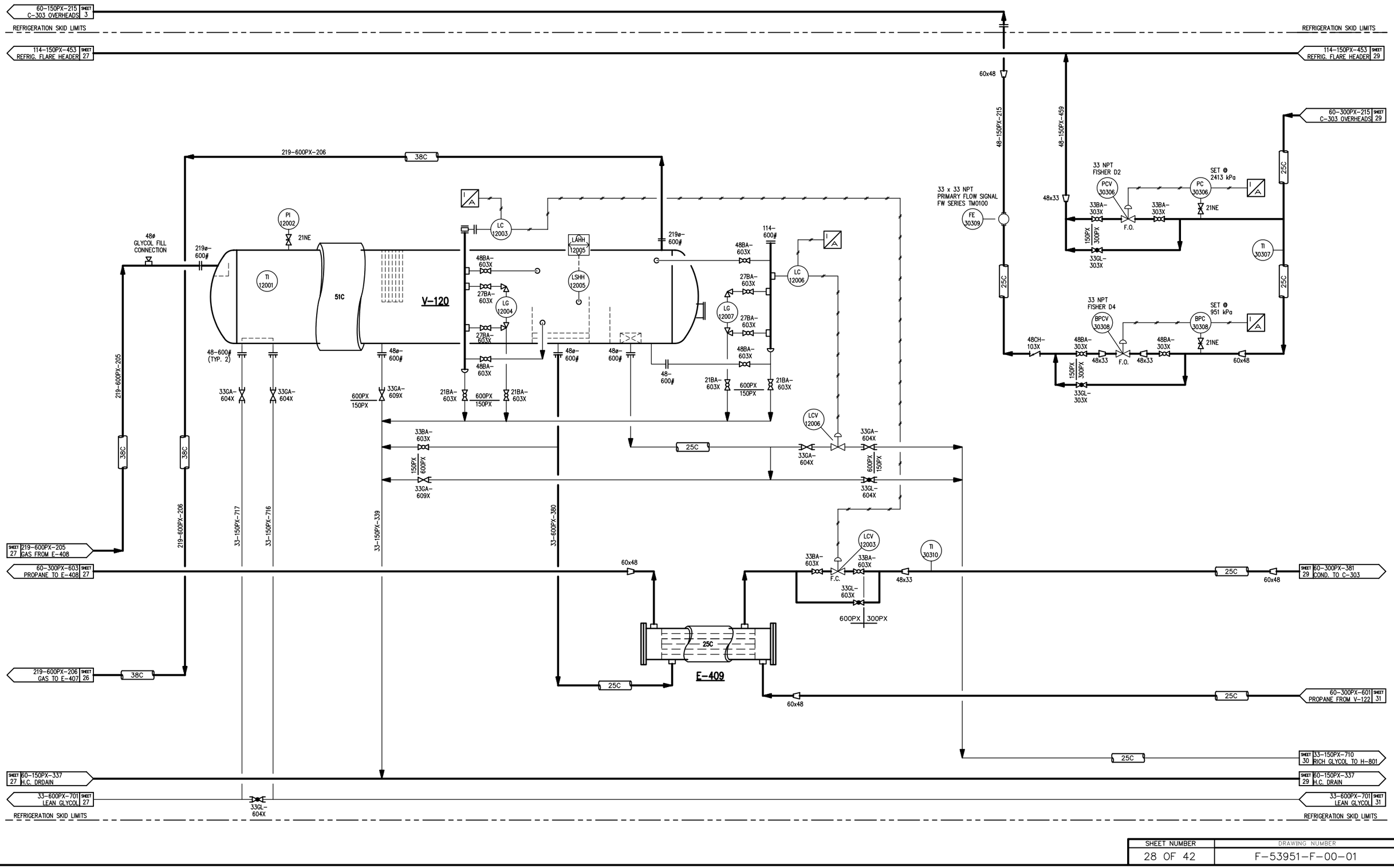
SHEET NUMBER	DRAWING NUMBER	REV
27 OF 42	F-53951-F-00-01	2

V-120
LOW TEMP SEPARATOR

1067 O.D. x 2438 S/S
D.P: 9749 kPa @ -29/66°C, 1.6mm C.A.
VANE PACK & CONDENSATE BUCKET
3 PHASE

E-409
CONDENSATE SUBCOOLER

10-96 NEN TEMA "C"
TS: 2068 kPa @ -29/66°C, 1.6mm C.A.
SS: 9749 kPa @ -29/66°C, 1.6mm C.A.
DESIGN DUTY: 50,751 BTU/HR



SHEET NUMBER	DRAWING NUMBER	REV
28 OF 42	F-53951-F-00-01	2

C-303
DE-ETHANIZER
324 O.D. x 15240 S/S
D.P: 2758 kPa @ -46/204°C, 1.6mm C.A.
(2) 6096 PACKED SECTIONS

V-124
GLYCOL FLASH SEPARATOR
324 O.D. x 1524 S/S
D.P: 1724 kPa @ -29/93°C, 1.6mm C.A.
2 PHASE

REFRIGERATION SKID LIMITS

114-150PX-453 REFRIG. FLARE HEADER SHEET 28

SHEET 33-150PX-231 26 FUEL GAS

60-300PX-215 C-303 OVERHEADS SHEET 28

25C

27ø INSPECTION

38C

38C

38H

C-303

60-150PX-460

25C

60x48

PSV 30301
33x48 NPT
SET @ 2758 kPa

SLOPE

25H

SHEET 114-300PX-382 30 TO H-801 REBOILER

TIC 30312

AR 30311

TCV 30311
60-300#RF
FISHER D4
F.O.

DO NOT POCKET OR TRAP

25H

168x114

SHEET 114-300PX-383 FROM H-801 REBOILER 30

PIT 30302
21NE

TI 30303

114-300#

27GA-303X

48GA-303X

LG 30305

LC 30304

27GA-303X

48GA-303X

300PX 150PX

21GA-303X

21GA-303X

300PX 150PX

48GA-303X

SHEET 60-300PX-381 28 COND. FROM E-404

60x48

300PX 600PX

48BA-603X

300PX 150PX

33GA-303X

48-300PX-384

33-150PX-340

25H

SHEET 48-600PX- 26 CONDENSATE INLET

SHEET 60-150PX-337 28 H.C. DRAIN

H.C. DRAIN HEADER

33-150PX-239

PSV 12403
33x48 NPT
SET @ 1724 kPa

48-150PX-465

SET @ 345 kPa

BPRV 12404

33-150PX-466

33BA-103X

33BA-103X

33BA-103X

48x33

27ø INSPECTION

SET @ 276 kPa

PRV 12401

33x14

14NE

21x14

PI 12402

21NE

TI 12405

48x33

H.C. SKIM

33BA-103X

33-150PX-712

27BA-103X

LG 12407

27BA-103X

LC 12406

LCV 12406

21BA-103X

33-150PX-343

33GA-104X

33GA-104X

33GL-104X

V-124

33BA-109X N.C.

SHEET 33-150PX-713 30 GLYCOL TO FILTERS

33-150PX-712 GLYCOL FROM H-801 SHEET 30

25H

SHEET 48-300PX-384 33 COND. TO E-411

SHEET 60-150PX-337 30 HYDROCARBON DRAIN

REFRIGERATION SKID LIMITS

SHEET 114-150PX-453 REFRIG. FLARE HEADER 31

SHEET 33 LEVEL SIGNAL TO LCV-30304

SHEET 33-150PX-231 30 FUEL GAS

SHEET NUMBER	DRAWING NUMBER	REV
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M-906
GLYCOL FILTER
CUNO 1B2 GLYCOL FILTER
10 MICRON FILTER ELEMENT
1724 kPa @ -29/121°C

M-907
CHARCOAL FILTER
CUNO 1B2 GLYCOL FILTER
W/ CHARCOAL ELEMENT
1724 kPa @ -29/121°C

P-508/509
GLYCOL INJECTION PUMP
FMC MO405 DUPLEX
6.81 L/MIN. @ 9653 kPa
2 H.P. 460/3/60, 1200 RPM
TEXP MOTOR

H-801
GLYCOL REGENERATOR
REBOILER: 1372 O.D. x 4877 LG.
SURGE TANK: 914 O.D. x 2896 LG.
HIGH STACK: 324 O.D. x 4267 LG.
STILL COLUMN: 324 O.D. x 3048 LG.
DUTY: 669,805 BTU/HR

E-430
DE-ETHANIZER
8-PASS 114ø SCH.40
D.P: 2758 kPa @ -29/149°C, 1.6mm C.A.
DESIGN DUTY: 284,354 BTU/HR

REFRIGERATION SKID LIMITS

SHEET 29 33-150PX-231 FUEL GAS

27 MNPT x 33 FNPT

PSV 90601 SET @ 241 kPa BLOCKED FLOW

33-150PX-710

33x27

33GA-104X

14NE dPI 90602 14NE

M-906 M-907

21GA-109X

33x21

33-150PX-713

33-150PX-706

150PX 600PX 33GA-604X

SHEET 29 33-150PX-713 GLYCOL FROM V-124

33GA-604X 33CH-604X

PSV 50901 33 NPT SET @ 9749 kPa

33-150PX-705

PD 50904 PI 50902 PD 50903 21NE 21NE

33GL-604X

600PX 150PX

33x27 P-509 48YS-104X 48GA-104X 21GA-104X

PSV 50801 33 NPT SET @ 9749 kPa

33-150PX-704

PD 50804 PI 50802 PD 50803 21NE 21NE

33GL-604X

600PX 150PX

33x27 P-508 48YS-104X 48GA-104X 21GA-104X

33-600PX-703

25C

33-600PX-701

33GA-604X 33CH-604X

48-150PX-702

33-150PX-712

48-150PX-700

SHEET 29 33-150PX-712 GLYCOL TO V-124

SHEET 28 33-150PX-710 RICH GLYCOL TO H-801

SHEET 29 60-150PX-337 HYDROCARBON DRAIN

33-150PX-710

33-150PX-710

33GL-104X

33-150PX-711

33-150PX-714

33-150PX-231

TAHH TAH TAL TALL TIR 80102

21ø

114-300PX-383 SHEET 29 TO DEETHANIZER

114GA-301X

TIT 80102

TI 80101

E-430

H-801

38H

I/A TC 80103

I/A TSDH 80109

114GL-301X

25H

SHEET 29 114-300PX-382 FROM DEETHANIZER

21ø

VENTED 89ø FILL

33GA-103X

H.C. SKIM

LG 80104

LALL 80105

LSL 80105

33GA-103X

33BA-103X 21BA-103X

PI 80111

33-150PX-231

33-150PX-344

THIEF HATCH
16 oz. PRESSURE
0.4 oz. VACUUM

TI 80106

60ø

38H-6ET

60-150PX-727 STEAM OUTLET

89x60

SHEET 34 89-150PX-727 STILL COLUMN VENT

89ø FILL

NAGY ELECTRONIC FLAME CONTROL (24 VCD)

IGN 80110 FFSD 80109

PI 80117 21BA-103X 33BA-103X PI 80116 21BA-103X

PILOT GAS

SET @ 28 kPa 14 NPT FISHER 67C 7-34 kPa

PRV 80119

PI 80118 14BA-103X

14BA-103X

SET 207 kPa 14 NPT FISHER 67C

PRV 80120

TSH 80109

PI 80121

SAV 80122

I/A 14BA-103X

VENT

SAV 80125

VENT

TIC 80102 TY 80103 I/P

14BA-103X PI 80123

SCV 80124 SMC AS3500

14BA-103X

FAIRCHILD TCX1-7800-403EN

PI 80114 21BA-103X

SDV 80113 33 NPT FISHER D2

PI 80115 21BA-103X

33 NPT FISHER D4

TCV 80103

PRV 80112 SET @ 103 kPa 33 NPT FISHER 627

SHEET 31 33-600PX-701 LEAN GLYCOL

SHEET 32 60-150PX-337 HYDROCARBON DRAIN

REFRIGERATION SKID LIMITS

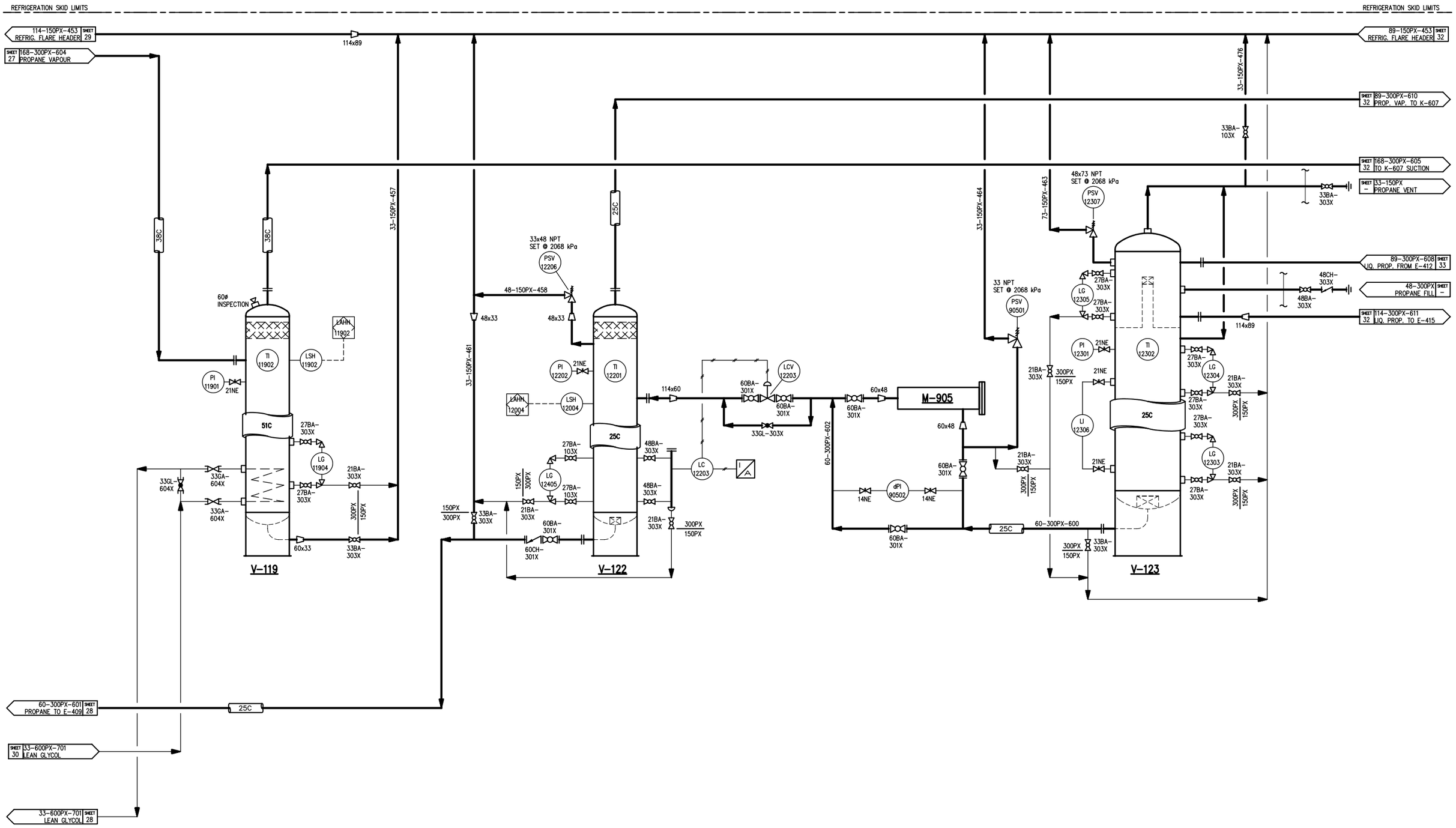
SHEET NUMBER	DRAWING NUMBER	REV
30 OF 42	F-53951-F-00-01	2

V-119
SUCTION SCRUBBER
610 I.D. x 2438 S/S
D.P: 2068 KPa @ -29/93°C
2 PHASE

V-122
PROPANE ECONOMIZER
762 O.D. x 2438 S/S
D.P: 2068 KPa @ -29/93°C
2 PHASE

M-905
PROPANE DRIER
SPORLAN C-19212P CORE CATCHER
w/ 4 RCW-48 ACTIVE DESICANT CORES

V-123
PROPANE ACCUMULATOR
762 O.D. x 3505 S/S
D.P: 2068 kPa @ -46/93°C
2 PHASE
w/ INTEGRAL TSOC REFRIGERANT RECEIVER



SHEET NUMBER	DRAWING NUMBER	REV
31 OF 42	F-53951-F-00-01	2

K-607
REFRIGERANT COMPRESSOR
MYCOM 200VSD-T-300 V SERIES MICRO-COLD SCREW
C/W 300 HP 460/3/60 TEFC TECO-WESTINGHOUSE MOTOR

V-121
LUBE OIL SEPARATOR

E-415
THERMOSYPHON OIL COOLER

P-514
LUBE OIL PUMP

M-908/914
LUBE OIL FILTERS

P-517
COMPRESSOR OIL MAKE-UP PUMP
TUTHILL MODEL 4105
SPUR GEAR PUMP W/ INTEGRAL RELIEF VALVE
4.5 USGPM @ 2068 kPa DISCHARGE
0.75 HP 1/60/220 VAC 1750 RPM XP MOTOR

T-711
COMPRESSOR OIL TANK
WESTEEL ROSCO
65 USGAL

REFRIGERATION SKID LIMITS

89-150PX-453 SHEET 31 REFRIG. FLARE HEADER

60-150PX-453 SHEET 32 REFRIG. FLARE HEADER

89x60

PCV 12207

PI 12208

14NE

SHEET 89-300PX-610 31 PROP. VAP. FROM V-122

89x41

89BA-311X

21BA-303X

41CH-304X

89x41

89BA-311X

89x60

60-300PX-610

SHEET PRESSURE SIGNAL 33 TO PCV-60708

SHEET 168-300PX-605 31 FROM V-119

38C

21NE

PT 60703

CP

21NPT CHARGE & PURGE

17ø

17ø

168ø ANGLE VALVE

168CH-301X

21x17

48-150PX-462

60ø FILL

T-711

LG 71101

33BA-103X

PI 51701

14NE

27BA-303X

27BA-303X

27x21

33x21

21BA-103X

P-517

SV 51402

A

B

P

T

VSH 60702

VSH 60701

K-607

42x48 NPT SET @ 2068 kPa

PSV 12101

42x48 NPT SET @ 2068 kPa

PSV 12102

SHEET 114-300PX-611 31 LIQ. PROP. FROM V-123

114-300PX-606

SHEET 114-300PX-607 33 TO PROP. COND. E-412

114CH-303X

TE 12103

PT 12107

33x21

HTR

HTR

SG 12104

SG 12105

V-121

SG 12106

PT 91401

48GL-303X

TE 51401

33CH-303X

21BA-303X

33x27

PSV 41501

21x27 NPT SET @ 689 kPa

M-914

M-908

60GL-304X

TCV 41502

P-514

E-415

168x141

SHEET 168-300PX-609 33 TO PROP COND. E-411

SHEET 60-150PX-337 30 HYDROCARBON DRAIN

SHEET 60-150PX-337 33 HYDROCARBON DRAIN

REFRIGERATION SKID LIMITS

SHEET NUMBER	DRAWING NUMBER	REV
32 OF 42	F-53951-F-00-01	2

E-411/412
PROPANE CONDENSER/LPG PRODUCT COOLER

ACE E144-164-21
E-411 2068kPa -29/93°C DUTY: 1,976,850 BTU/HR
E-412 2758 kPa @ -29/149°C DUTY: 255,125 BTU/HR
C/W 40 HP 480/3/60 1800 RPM TEFC MOTOR
VFD COMPATIBLE

REFRIGERATION SKID LIMITS

60-150PX-453 SHEET 33
REFRIG. FLARE HEADER

SHEET 29 LEVEL SIGNAL TO LCV-30306

SHEET 32 PRESSURE SIGNAL FROM V-119

33-150PX-486

89-300PX-608 SHEET 31
LIQ. PROP. TO V-123

89CH 301X

89-300PX-608

48BA-303X
PCV 60706
42CH-304X
PI 60707
14NE
21BA-303X
48-300PX-612
PCV 60703
PI 60704
14NE
48BA-303X

TI 60705

114-300PX-607

168x114

TI 41101
TI 41201

114x60
114x60

E-411
E-412

89x60
89x60

TI 41102
TI 41202

60x33
60x33

VSH 41103

SHEET 32 114-300PX-607
FROM L.O. SEP. V-121

114x73
21BA-303X
114x73

33GL-303X
150PX 300PX

SHEET 32 168-300PX-609
TO PROP COND. E-411

168-300PX-609

60x48
60-300PX-385

PCV 60708
PI 60709
14NE

33 NPT
FE 30313
LCV 30304
33 NPT FISHER D4 F.C.
48GL-303X
48ø "Y" STRAINER
48CH-303X

48-300PX-613 SHEET 27
HOT GAS BYPASS

48BA-303X
42CH-304X
21BA-303X
48BA-303X
48BA-303X
48x33
48BA-303X
60x48

60-300PX-385

SHEET 41 60-300PX-385
TO L.P.G. STORAGE HDR

SHEET 29 48-300PX-384
COND. TO E-411

25H
60x48

60-300PX-384

33BA-103X
60CH 101X
60BA-101X (C.S.O.)
60-150PX-337
38H&T

SHEET 32 60-150PX-337
HYDROCARBON DRAIN

SHEET 40 60-150PX-337
TO H.C. DRAIN HEADER

REFRIGERATION SKID LIMITS

SHEET NUMBER	DRAWING NUMBER	REV
33 OF 42	F-53951-F-00-01	2

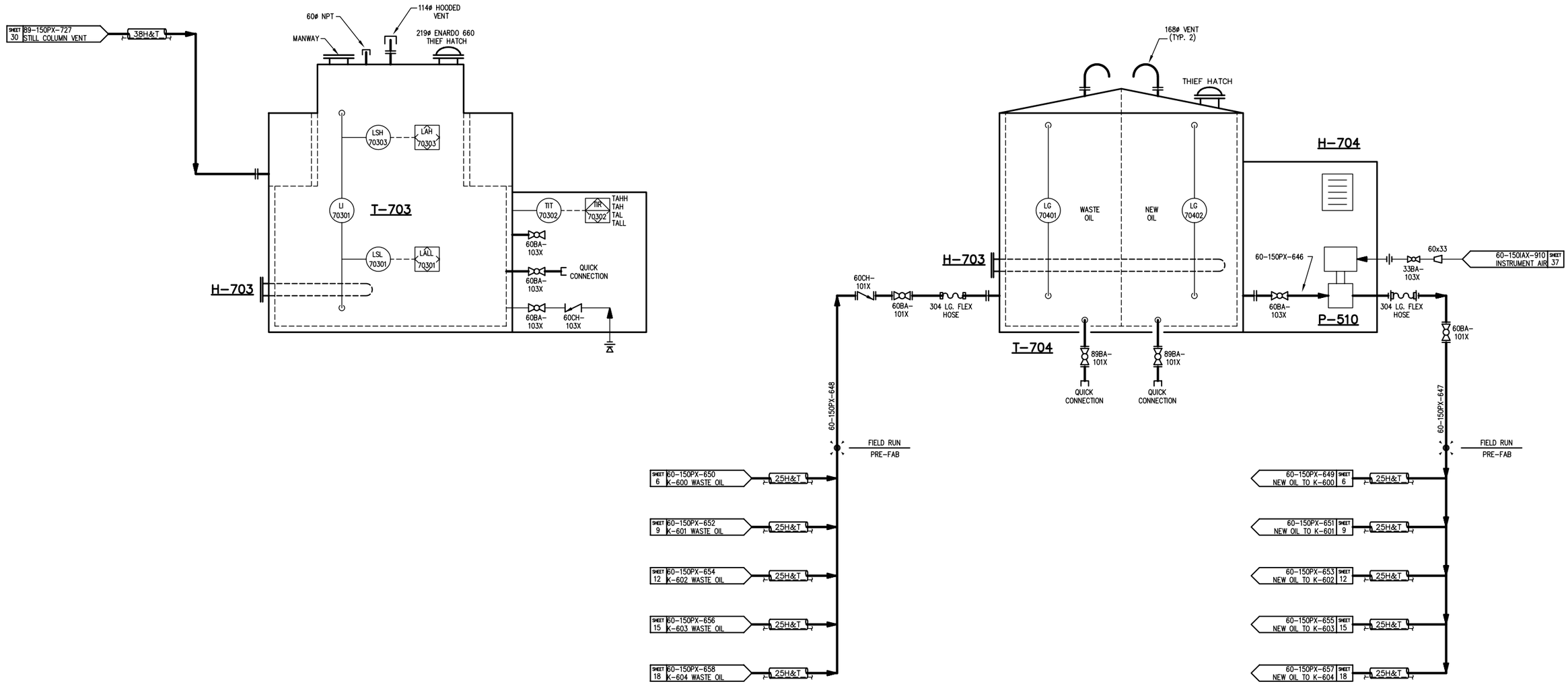
H–703
IMMERSION TANK HEATER
CALORITECH MODEL CXI308F342X–00X
480 VOLT, 3 PHASE, 8kW
42" INSERTION LENGTH
X.P. TERMINAL BOX
10°C TO 121°C PILOT DUTY CYCLING HIGH LIMIT

T–703
STILL COLUMN VENT TANK
50 bbl DOUBLE WALLED
INTERNALLY COATED

T–704
COMPRESSOR OIL TANK
100 bbl DOUBLE WALLED SPLIT TANK

P–510
COMPRESSOR OIL PUMP
WILDEN D2
DIAPHRAGM PUMP

H–704
UNIT HEATER
RUFFNECK CXI–480160–036
480 VOLT, 3 PHASE, 3.5kW



SHEET NUMBER	DRAWING NUMBER	REV
34 OF 42	F–53951–F–00–01	2

V-125
FUEL GAS SCRUBBER

508 O.D. x 1829 s/s
DESIGN: 1965 kPa @ 38°C
C.A. 1.6mm

SHEET 18 89-600PX-190 K-604 DISCHARGE
SHEET 15 89-600PX-174 K-603 DISCHARGE
SHEET 12 89-600PX-158 K-602 DISCHARGE
SHEET 9 89-600PX-142 K-601 DISCHARGE
SHEET 6 89-600PX-126 K-600 DISCHARGE
SHEET 26 219-600PX-217 FROM REFRIG. SKID

219-600PX-208 SALES GAS HEADER

SKID LIMITS

21NE
33BA-603X
27ø TOL
RTD
219ø-600# V-CONE DIFFERENTIAL PRESSURE METER MODEL: VW08AP16N
FE 2
27ø TOL
219-600PX-208

219BA-611X c/w MORIN B-270U S080LT ACT. (F.C.)
ESDV 1
ASCO EF-8320 G200
SAV 1

SHEET 36 219-600PX-208 SALES GAS HEADER

21NE TYP. 2
PIT 2
dPIT 2
TIT 2
4-20 mA
PAHH PAH PAL PALL
PIC 2
PIR 2
dPIR 2
TIR 2
FAL

PIT-2 ROSEMOUNT MODEL 2088 OR 3051TG (0-10,000 kPa)
dPIT-2 ROSEMOUNT MODEL 3051CD (0-62 kPa)
TIT-2 ROSEMOUNT MODEL 3144P (-20°C TO 100°C)

ASCO EF-8320 G202-24
SAV 3
PY 3
PIC 2
I/P
I/A

60-600# FISHER D c/w POSITIONER c/w 1 1/4" TRIM (F.O.)
BDV 3
60BA-601X
60GL-601X
600PX 150PX
60-600PX-467
89X60
89-150PX-467
SHEET 42 89-150PX-467 TO FLARE HEADER

ASCO EF-8320 G202-24
SAV 12510
33ø NPT FISHER D2 (F.O.)
BDV 12510
33BA-103X
33GL-103X
33-150PX-469

PIT-12508 ROSEMOUNT MODEL 2088 OR 3051TG (0-2,000 kPa)
dPIT-12508 ROSEMOUNT MODEL 3051CD (0-62 kPa)
TIT-12508 ROSEMOUNT MODEL 3144P (-20°C TO 100°C)

PIC 12508
PIR 12508
dPIR 12508
TIR 12508
PIT 12508
dPIT 12508
TIT 12508
4-20 mA

48x60 NPT FARRIS 27FA45-M20 SET @ 1138 kPa PRV FAILURE
PSV 12518
60-150PX-470

ASCO EF-8320 G200
SAV 12514
89BA-611X c/w MORIN MRP 037 UT S080 ACT. (F.C.)
ESDV 12514
89BA-601X (N.C.)
89-600PX-250

89ø WAFER STYLE V-CONE DIFFERENTIAL PRESSURE METER MODEL: VH03A1SN3
FE 12508
114-150PX-221
89BA-111X
21NE TYP. 2
27ø TOL
RTD
114x89
60BA-101X

33ø NPT FISHER 627 c/w 1/4" ORIFICE SET @ 862 kPa
PRV 12515
PI 12518
PRV 12516
PI 12519
PRV 12517
PI 12520
33BA-103X
89x33
60x33
600PX 150PX

SHEET 36 114-150PX-221 FUEL GAS HEADER

SHEET 26 89-600PX-251 FROM INTERSTAGE SUCT.
33BA-603X
89BA-601X

89-150PX-468
PSV 12503
60-150# x 89-150# FARRIS 26JA10-120 SET @ 1138 kPa

PIC 12508
SAV 12512
PY 12512
89-600PX-252

ASCO EF-8320 G200
SAV 12511
89BA-611X c/w MORIN MRP 037 UT S080 ACT. (F.C.)
ESDV 12511

PI 12504
60-600# FISHER D
PCV 12512
33BA-603X
89BA-621X (R.P.)
114x60
60BA-631X (F.P.)
89x60
33BA-603X (N.C.)
89CH-601X
89-600PX-220

SHEET 36 89-600PX-220 BUYBACK FROM SALES

NORRISEAL 1005E
LAHH 12506
LSH 12506
TI 12501
LSH 12502
NORRISEAL 1005E
LAH 12502
ASCO EF-8320 G200
SAV 12502
LAH 12502
LCV 12502
33 NPT FISHER D2 (F.C.)
V-125
27BA-103X
DANIEL 72TL
LG 12507
33BA-103X
33GL-603X (N.C.)
150PX 600PX
PRV 12513
33ø NPT FISHER 627 c/w 1/4" ORIFICE SET @ 862 kPa
60x33
33CH-103X
33-150PX-345
27BA-103X
21BA-103X

AE 12501 LEL
AIT 12501
AIR 12501
AAH AAHH

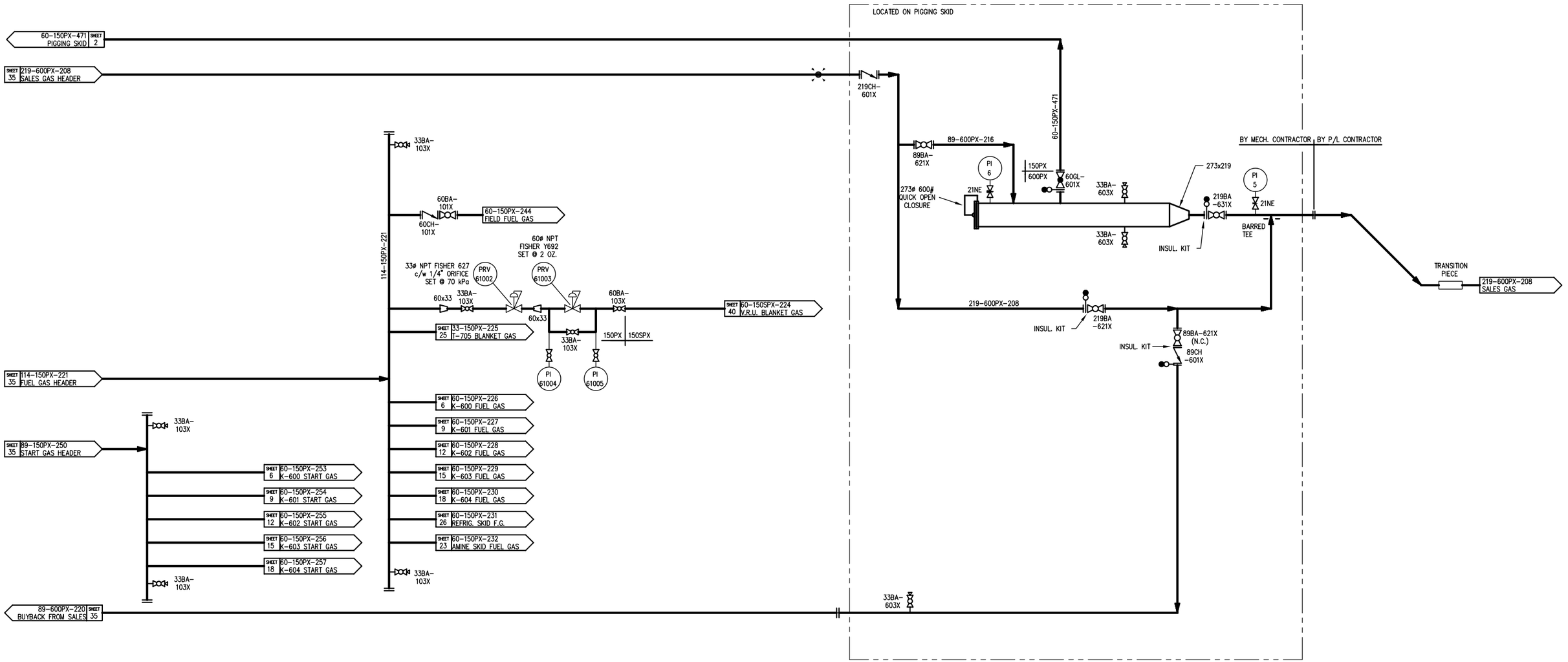
ELECTRIC HEATER 25 KW

60x33
33BA-103X
SHEET 37 60-150IAX-911 INSTRUMENT AIR

SKID LIMITS

60BA-101X
38H&T
SHEET 40 60-150PX-345 TO H.C. DRAIN HEADER

SHEET NUMBER	DRAWING NUMBER	REV
35 OF 42	F-53951-F-00-01	2



SHEET NUMBER	DRAWING NUMBER	REV
36 OF 42	F-53951-F-00-01	2

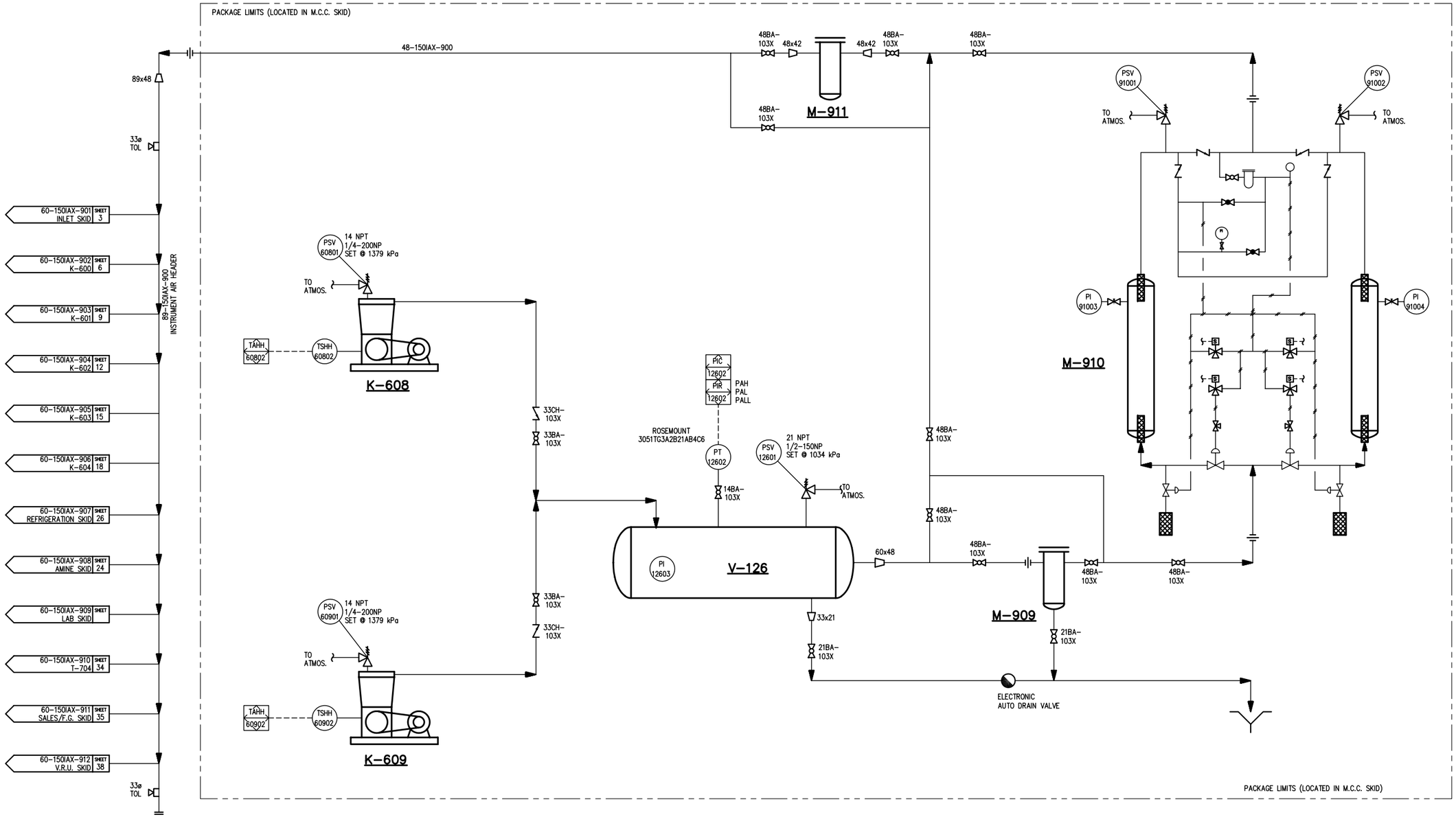
K-608/609
ROTARY SCREW INST. AIR COMPRESSOR
ROTA NOVA NK100
CAPACITY: 108 CFM @ 862 kPa
C/W WESTINGHOUSE 25 HP MOTOR
1800 RPM, 3/60/230-460, TEFC

V-126
WET AIR RECEIVER
762ø x 2134 s/s
DESIGN: 1379 kPa @ 232°C
908 LITRE CAPACITY

M-909
AIR PRE-FILTER
DELTECH D0175-CC
DESIGN: 1379 kPa @ 232°C
CAPACITY: 175 CFM

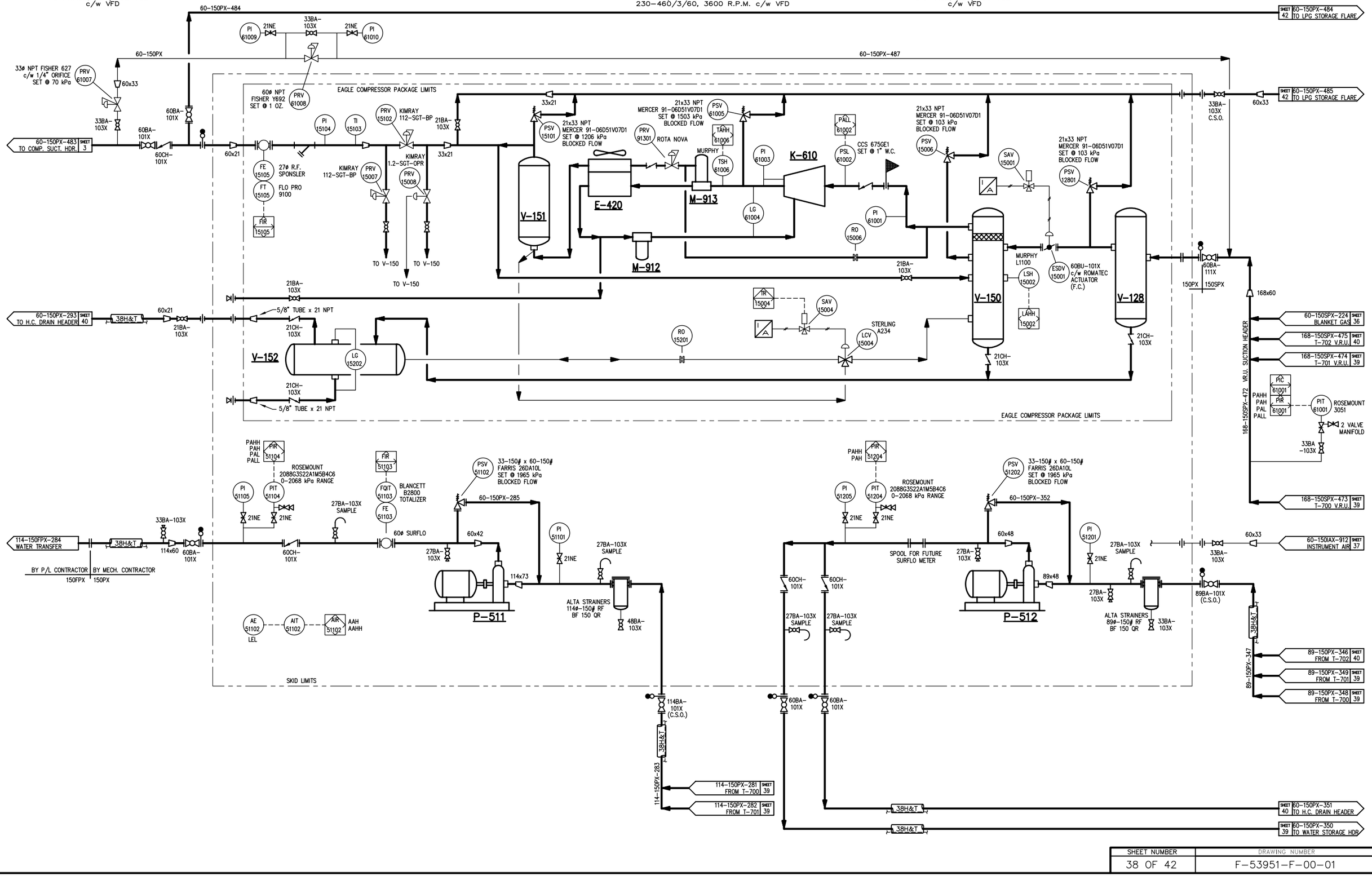
M-910
HEATLESS AIR DRYER
EAGLE MOD. EADR130
CAPACITY 130 CFM @ °C @ 689 kPa
DESIGN: 1379 kPa @ 93°C

M-911
AIR AFTER FILTER
DELTECH D-0170-PF
DESIGN: 1379 kPa @ 232°C
CAPACITY: 170 CFM



SHEET NUMBER	DRAWING NUMBER	REV
37 OF 42	F-53951-F-00-01	2

P-511	V-151	E-420	M-912	M-913	K-610	V-152	P-512	V-150	V-128
WATER TRANSFER PUMP	DISCHARGE SCRUBBER	AFTERCOOLER/OIL COOLER	OIL FILTER	SEPARATOR/FILTER	V.R.U. COMPRESSOR	ACCUMULATOR	SKIM PUMP	SUCTION SCRUBBER	V.R.U. SUCTION KNOCK OUT
HYDRA-CELL MODEL D35EKSTHFECB c/w 5 H.P. X.P. MOTOR, 1150 R.P.M. 3 PHASE, 230/460 VOLT c/w VFD	114 O.D. x 787 S/S D.P: 2413 kPa @ 121°C	NK-60 COOLER D.P: 1724 kPa @ 121°C	ROTA NOVA	ROTA NOVA	EAGLE ROTA NOVA NK-40NG 5500 R.P.M. c/w 15 H.P. X.P. MOTOR 230-460/3/60, 3600 R.P.M. c/w VFD	152 O.D. x 610 S/S D.P: 1379 kPa @ 121°C	TUTHILL MODEL GG030IAVID1AHIC000 c/w 3 H.P. X.P. MOTOR, 1750 R.P.M. 3 PHASE, 230/460 VOLT c/w VFD	152 O.D. x 813 S/S D.P: 103 kPa @ 121°C (NON CODE)	203 O.D. x 978 S/S D.P: 103 kPa (NON CODE)



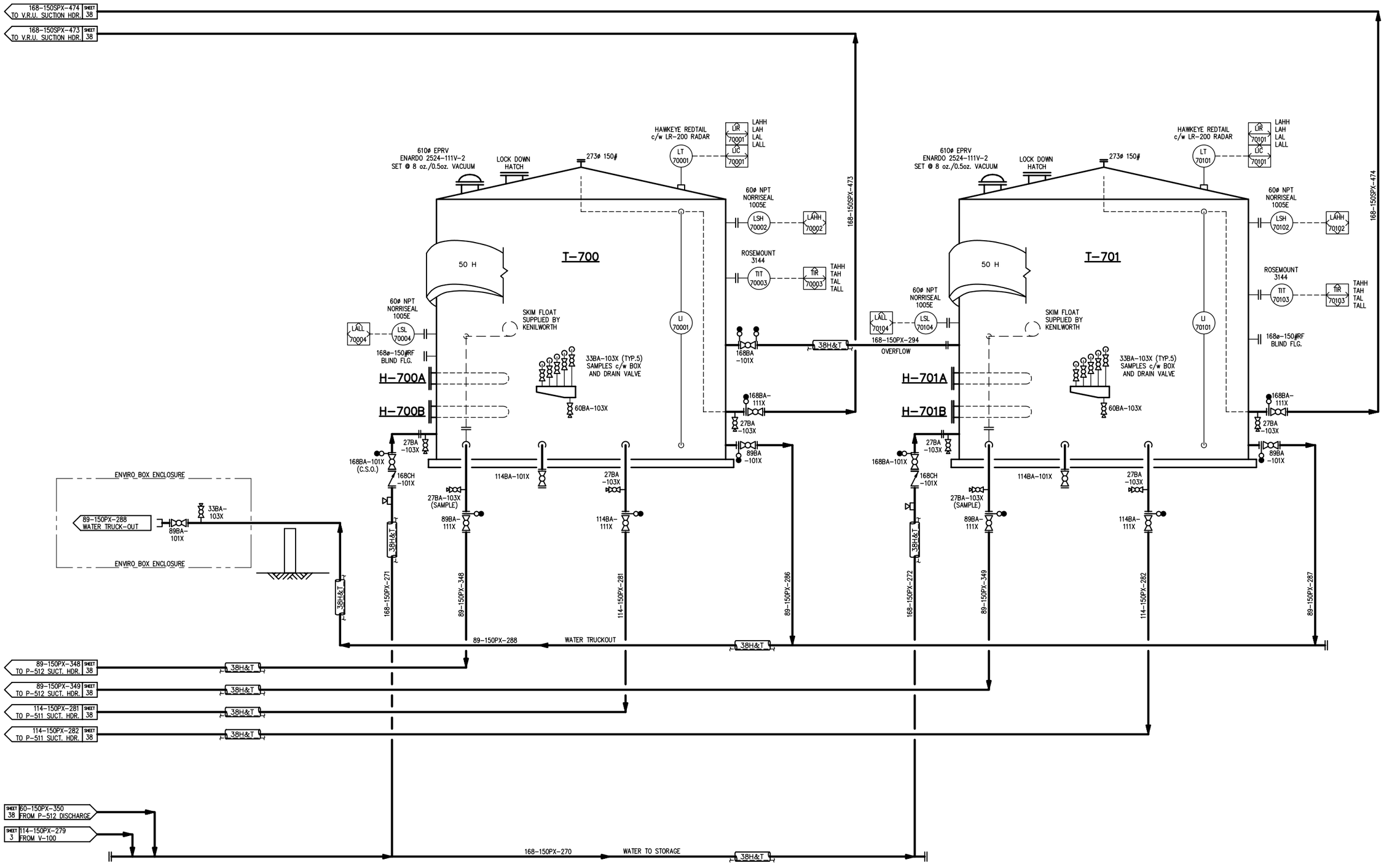
SHEET NUMBER	DRAWING NUMBER	REV
38 OF 42	F-53951-F-00-01	2

T-700
WATER STORAGE TANK
4724ø x 7315 HIGH
(750 BBL)
INTERNALLY COATED

H-700A/B
IMMERSION TANK HEATER
CALORITECH MODEL MXI305F3105X
480 VOLT, 3 PHASE, 5kW
105" INSERTION LENGTH
X.P. TERMINAL BOX
149°C TO 371°C PILOT DUTY CYCLING HIGH LIMIT

T-701
WATER STORAGE TANK
4724ø x 7315 HIGH
(750 BBL)
INTERNALLY COATED

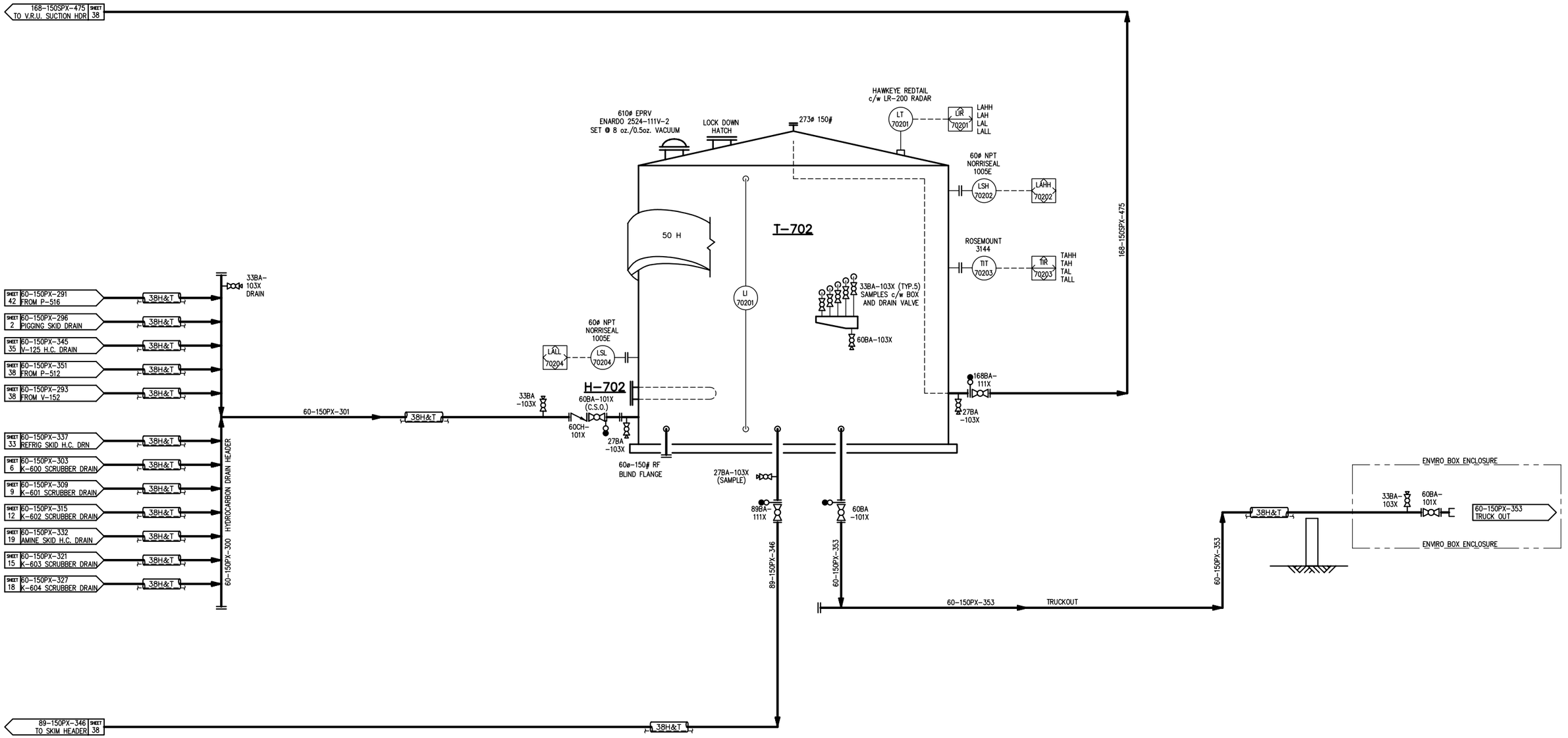
H-701A/B
IMMERSION TANK HEATER
CALORITECH MODEL MXI305F3105X
480 VOLT, 3 PHASE, 5kW
105" INSERTION LENGTH
X.P. TERMINAL BOX
149°C TO 371°C PILOT DUTY CYCLING HIGH LIMIT



SHEET NUMBER	DRAWING NUMBER	REV
39 OF 42	F-53951-F-00-01	2

T-702
HYDROCARBON DRAIN/SKIM TANK
3658ø x 6096 HIGH
(400 BBL)

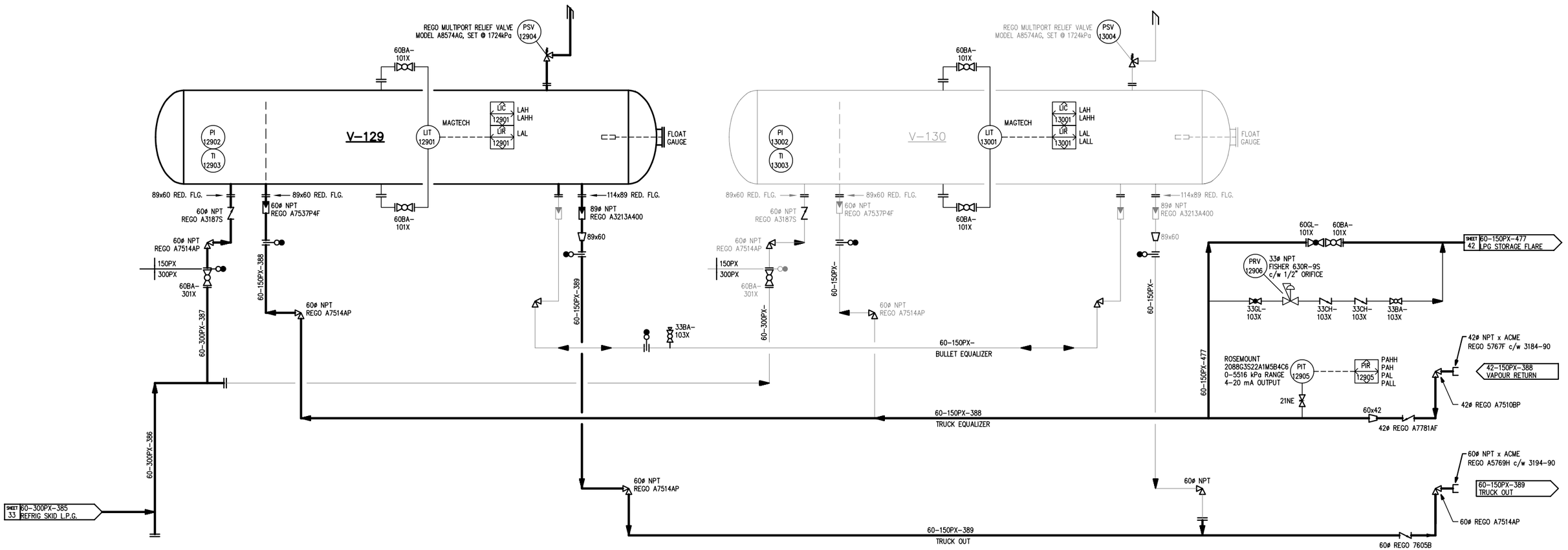
H-702
IMMERSION TANK HEATER
CALORITECH MODEL MXI306F3124TX
480 VOLT, 3 PHASE, 6kW
124" INSERTION LENGTH
X.P. TERMINAL BOX
149°C TO 371°C PILOT DUTY CYCLING HIGH LIMIT



SHEET NUMBER	DRAWING NUMBER	REV
40 OF 42	F-53951-F-00-01	2

V-129
L.P.G. STORAGE BULLET
2743 I.D. x 18212 S/S
D.P: 1724 kPa @ 46°C
30000 USWG

V-130
L.P.G. STORAGE BULLET (FUTURE)
2743 I.D. x 18212 S/S
D.P: 1724 kPa @ 46°C
30000 USWG



SHEET NUMBER	DRAWING NUMBER	REV
41 OF 42	F-53951-F-00-01	2

P-516
KNOCKOUT DRAIN PUMP
HYDRA-CELL MODEL D10EKSGSFEMP
c/w 1 H.P. X.P. MOTOR, 1750 R.P.M.
3 PHASE, 230/460 VOLT

T-708
FLARE KNOCKOUT DRUM
3048 O.D. x 9144 S/S
INTERNALY COATED

H-708
IMMERSION HEATER
CALORITECH MODEL MXI308F3162X-00X
480 VOLT, 3 PHASE, 8kW
162" INSERTION LENGTH
X.P. TERMINAL BOX
PILOT DUTY CYCLING HIGH LIMIT

T-709
VENT KNOCKOUT DRUM
914ø x 1829 S/S
INTERNALY COATED

H-709
IMMERSION HEATER
CALORITECH MODEL MXI302F351X-00X
480 VOLT, 3 PHASE, 2kW
51" INSERTION LENGTH
X.P. TERMINAL BOX
PILOT DUTY CYCLING HIGH LIMIT

M-900
FLARE STACK
406ø x 24384 HIGH
SELF SUPPORTED

M-901
VENT STACK
114ø x 12192 HIGH
SELF SUPPORTED

SHEET 18 168-150PX-437 K-604 FLARE
SHEET 18 89-150PX-482 K-604 START GAS VENT
SHEET 15 168-150PX-431 K-603 FLARE
SHEET 15 89-150PX-481 K-603 START GAS VENT
SHEET 23 219-150PX-440 AMINE SKID FLARE
SHEET 12 168-150PX-425 K-602 FLARE
SHEET 12 89-150PX-480 K-602 START GAS VENT
SHEET 9 168-150PX-419 K-601 FLARE
SHEET 9 89-150PX-479 K-601 START GAS VENT
SHEET 6 168-150PX-413 K-600 FLARE
SHEET 6 89-150PX-478 K-600 START GAS VENT
SHEET 26 114-150PX-453 REFRIG SKID FLARE
SHEET 3 219-150PX-408 V-100 FLARE
SHEET 41 60-150PX-477 LPG STORAGE FLARE
SHEET 38 60-150PX-484 VRU BLOWER BYPASS
SHEET 38 60-150PX-485 VRU SKID FLARE
SHEET 35 89-150PX-467 FG SCRB'R SKID FLARE
SHEET 2 60-150PX-402 PIGGING SKID FLARE

324-150PX-400 FLARE HEADER

406-150PX-401

CONTINUOUS ELECTRONIC IGNITER

33BA-103X

M-900

33BA-103X

406x324

NORRISEAL 1005E

LSH 70801 — LAHH 70801

LSH 70802 — LAH 70802

27BA-103X

LG 70803

TI 70804

457ø MANWAY

50H

H-708

89ø-150# RF HEATING PROBE

T-708

60BA-101X (N.C.)

60BA-101X

60-150PX-290

UTILIDOR LIMITS

CCS DUAL SNAP SET @ 1724 kPa

PI 51601

PSH 51602 — PAHH 51602

21NE

21NE

PSV 51603

33-150# x 60-150# FARRIS 26DA10L SET @ 1965 kPa BLOCKED FLOW

60-150PX-292

60-150PX-291 SHEET 40 TO H.C. DRAIN HEADER

38H&T

60CH-101X

60BA-101X

60x27

60x33

P-516

60YSF-101X

60BA-101X

33BA-103X

60-150PX-290

UTILIDOR LIMITS

114-150PX-490 VENT HEADER

38H&T

SHEET 23 114-150PX-492 AMINE SKID VENT

27BA-103X

60BA-101X

NORRISEAL 1005E (TYP)

LSH 70902 — LAHH 70902

LSH 70901 — LAH 70901

LG 70903

TI 70904

457ø MANWAY

50H

H-709

89ø-150# RF HEATING PROBE

T-709

60BA-101X

60-150PX-289

114-150PX-491

38H&T

33BA-103X

M-901

SHEET NUMBER	DRAWING NUMBER	REV
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