

SYMBOLS

COMMON AND I.S.A. INSTRUMENT & DEVICE ABBREVIATIONS
(NOT ALL INCLUSIVE)

LINE LEGEND

- MAJOR FLOW LINE
- OBJECT OR MINOR FLOW LINE
- MATCH LINE OR SKID OUTLINE
- UNDEFINED SIGNAL
- ELECTRIC SIGNAL
- ALTERNATIVE/ELECTRIC SIGNAL
- ELECTRIC, BINARY SIGNAL
- ALTERNATIVE SIGNAL
- PNEUMATIC SIGNAL
- PNEUMATIC, BINARY SIGNAL
- MECHANICAL LINK
- CAPILLARY LINE
- HYDRAULIC SIGNAL
- INTERNAL SYSTEM LINK
- ELECTROMAGNETIC OR SONIC SIGNAL (GUIDED)
- ELECTROMAGNETIC OR SONIC SIGNAL (NOT GUIDED)
- ELECTRICAL HEAT TRACE
- STEAM HEAT TRACE
- TUBING

TYPE OF VALVES

- CONTROL VALVE, SELF CONTAINED
- FOUR WAY VALVE
- GATE VALVE
- GLOBE VALVE
- MOTOR OPERATED VALVE
- NEEDLE VALVE
- PLUG VALVE
- PLUG / CHECK VALVE
- PISTON OPERATED VALVE
- POSITIVE CHOKE
- QUICK EXHAUST VALVE
- RELIEF VALVE
- SHUTDOWN VALVE
- SOLENOID OPERATED VALVE
- THREE WAY VALVE
- VALVE W/LOCKING DEVICE

OTHER

- INSULATION W/THICKNESS
- INSULATED PIPE W/HEAT TRACING
- INSULATED W/THICKNESS FOR MAINTAINING MAX. TEMP.

TYPE OF VALVE HOOK-UP

- FLANGED VALVE
- WELD END VALVE
- SCREWED VALVE
- SOCKET WELD END VALVE

TYPE OF VALVES

- ADJUSTABLE CHOKE
- ANGLE CONTROL VALVE
- ANGLE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- CONTROL VALVE, FAILS CLOSE
- CONTROL VALVE, FAILS OPEN
- CONTROL VALVE, W/POSITIONER

TYPICAL PIPING FITTINGS

- ADAPTER (TUBING PIPE)
- ANALYZER ELEMENT
- BLEED RING
- CAP
- CONTINUOUS DRAINER
- FILTER
- FILTER REGULATOR
- FIRE HYDRANT
- FLAME ARRESTOR
- FLEX HOSE
- FLOW ELEMENT (ORIFICE)
- FLOW ELEMENT (VENTURI)
- FLOW STRAIGHTENING VANES
- GAS ANALYZER

HOSE CONNECTION

- INSULATION GASKET ASSEMBLY
- LOCALLY MOUNTED INSTR. (LOCAL)
- LOCALLY MOUNTED INSTR. (REMOTE)
- MONITOR
- PANEL MOUNTED INSTR. (REMOTE)
- PANEL MOUNTED INSTR. (LOCAL)
- POSITIVE DISPLACEMENT METER
- QUALITY CONTROL PROBE
- PRESSURE SAFETY ELEMENT
- PRESSURE VACUUM HATCH
- PULSATION DAMPER OR SUCTION STABILIZER
- REDUCER, CONCENTRIC
- REDUCER, ECCENTRIC
- SAMPLER
- SAMPLER W/ BS & W MONITOR
- SPECTACLE BUND
- SPRINKLER (THERMAL OPERATED)
- STRAINER (BASKET TYPE)
- STRAINER ("Y" TYPE)
- TEMPORARY STRAINER
- TRAP - OTHER THAN CONTINUOUS DRAINERS
- TURBINE METER
- UNION
- OPEN DRAIN SYSTEM
- LINE RATING CHANGE (W/PIPING SPEC. DESIG)
- OFF/ON SKID OR SHOP FABRICATED
- LINE NUMBER CHANGE

A	E	H	L	N	Q	T	W
A&D ANALOG TO DIGITAL ACD ACCUMULATOR/DAMPENER AE AIR ELIMINATOR/ANAL. ELEM. AF ARRESTOR-FLAME TYPE AP ANALYZER TEST POINT AS AIR SUPPLY ASH ANALYZER SAFETY HIGH ASL ANALYZER SAFETY LOW	EDV EMERGENCY DIVERT VALVE ES ELECTRIC SUPPLY ESD EMERGENCY SHUTDOWN SWITCH	H 2 A HYDROGEN ALARM H 2 T HYDROGEN TRANSMITTER HCV HAND CONTROL VALVE HE HEATING ELEMENT HH HAND HOLE HOA HAND-OFF AUTOMATIC HS HYDRAULIC SUPPLY	LA LEVEL ALARM LAH LEVEL ALARM HIGH LAHL LEVEL ALARM HIGH-LOW LAL LEVEL ALARM LOW LC LEVEL CONTROLLER LCV LEVEL CONTROL VALVE LDC LOCK DEVICE CLOSED LDO LOCK DEVICE-OPEN LG LEVEL GAUGE LI LEVEL INDICATOR LIC LEVEL INDICATING CONTROLLER LR LEVEL RECORDER LRC LEVEL RECORDER CONTROLLER LS LEVEL SWITCH LSDH LEVEL SHUTDOWN HIGH LSDL LEVEL SHUTDOWN LOW LSH LEVEL SAFETY HIGH LSL LEVEL SAFETY LOW LT LEVEL TRANSMITTER LY LEVEL RELAY	NC NORMALLY CLOSED NO NORMALLY OPEN NOC NET OIL COMPUTER NS NITROGEN SUPPLY NV NEEDLE VALVE	QC QUALITY CONTROL QCA QUALITY CONTROL ALARM QCI QUALITY CONTROL INDICATOR	TA TEMPERATURE ALARM TAH TEMPERATURE ALARM HIGH TAL TEMPERATURE ALARM LOW TC TEMPERATURE CONTROLLER TCV TEMPERATURE CONTROLLER VALVE TE TEMPERATURE ELEMENT TI TEMPERATURE INDICATOR TIC TEMPERATURE INDICATOR CONTROLLER TM TURBINE METER TP TEMPERATURE TEST POINT TR TEMPERATURE RECORDER TRC TEMPERATURE RECORDER CONTROLLER TS TEMPERATURE SWITCH TSDH TEMPERATURE SHUTDOWN HIGH TSDL TEMPERATURE SHUTDOWN LOW TSE TEMPERATURE SAFETY ELEMENT TSH TEMPERATURE SAFETY HIGH TSL TEMPERATURE SAFETY LOW TT TEMPERATURE TRANSMITTER TW THERMOWELL	WHS WELLHEAD START - STOP WS WATER SUPPLY
B	F	I	J	M	O	R	X
BFV BUTTERFLY VALVE BR BLEED RING BS & W BASIC SEDIMENT & WATER BSL BURNER SAFETY LOW BV BALL VALVE	FA FLOW ALARM FAH FLOW ALARM HIGH FAL FLOW ALARM LOW FC FLOW CONTROLLER FCV FLOW CONTROL VALVE FE FLOW ELEMENT FG FLOW GLASS FI FLOW INDICATOR FIC FLOW INDICATING CONTROLLER FIS FLOW INDICATING SWITCH FM FLOW METER FO FULL OPEN FP FLOW TEST POINT FPR FLOW PRESSURE RECORDER (TWO PEN) FPTIR FLOW PRESS-TEMP. RECORDER (THREE PEN) FRC FLOW RATIO RECORDER CONTROLLER FR FLOW RECORDER FRC FLOW RECORDER CONTROLLER FS FLOW SWITCH FSH FLOW SAFETY HIGH FSL FLOW SAFETY LOW FSV FLOW SAFETY VALVE FT FLOW TRANSMITTER	IA INSTRUMENT AIR ILC INTERFACE LEVEL CONTROL ILCV INTERFACE LEVEL CONTROL VALVE ILG INTERFACE LEVEL GAUGE I/P CURRENT TO PNEUMATIC TRANSDUCER I/S CURRENT TO SWITCH TRANSDUCER ILT INTERFACE LEVEL TRANSMITTER	J POWER INDICATOR JR POWER RECORDER JY POWER RELAY	M METER MA MOISTURE ANALYZER MAA MOISTURE ANALYZER ALARM M/A MANUAL-AUTOMATIC SYSTEM MCC MOTOR CONTROL CENTER MCI MOTOR CONTROLLED VALVE INDICATOR MDV MAIN DIVERT VALVE MLS MANUAL LOADING STATION MOV MOTOR OPERATED VALVE MS MANUAL SET POINT STATION MSS MANUAL SELECTOR STATION MX MIXER	OST OVERSPEED TRIP	RC RATIO CONTROLLER RO RESTRICTION ORIFICE RR RATIO RELAY RTD RESISTANCE TEMPERATURE DETECTOR RTU REMOTE TERMINAL UNIT	X MULTIPLIER XAC ANALOG COMPUTER XAS AUTO-SELECT RELAY XB BEACON LIGHT XBA BEACON ALARM XC CONVERTER XCM CORROSION MONITOR XCR CONTROL RELAY XDI DEW POINT INDICATOR XFA FLOW ADDER XFC FLOW COMPUTER XFT FLOW TOTALIZER XFCR FLOW RATIO CONTROLLER XGD HAZARDOUS GAS DETECTOR XPA PIG OR SPHERE DETECTOR XPSU POWER SUPPLY UNIT XPV PILOT VALVE XRG RAMP GENERATOR XRRS REVERSE ROTATION SWITCH XJR RATIO RELAY XSD SPHERE DETECTOR XSDV SHUTDOWN VALVE XSRH SELECTOR RELAY HIGH XSLR SELECTOR RELAY LOW XSS SPHERE PASSAGE SWITCH XSV SOLENOID VALVE XTC TEMPERATURE CONVERTER XTP TICKET PRINTER XVB VOLUME BOOSTER XVPI VALVE POSITION INDICATOR XVPS VALVE POSITION SWITCH
C	G	K	P	S	U	V	Y
CC CORROSION COUPON CD CONTINUOUS DRAINER CHA CHOKE ADJUSTABLE CHP CHOKE - POSITIVE CN CHOKE NIPPLE CP CORROSION PROBE	GA GAS ANALYZER GAI GAS ANALYZER INDICATOR GLV GLOBE VALVE GS GAS SUPPLY GV GATE VALVE	KC TIME CONTROLLER KI TIME INDICATOR KR TIME RECORDER KY TIME RELAY	PA PRESSURE ALARM PAH PRESSURE ALARM HIGH PAL PRESSURE ALARM LOW PC PRESSURE CONTROLLER PCV PRESSURE CONTROL VALVE PD PULSATION DAMPENER PDC PRESSURE DIFFERENTIAL CONTROLLER PDCV PRESSURE DIFFERENTIAL CONTROL VALVE PDI PRESSURE DIFFERENTIAL INDICATOR PDIK PRESSURE DIFFERENTIAL INDICATING CONTROLLER PDSH PRESSURE DIFFERENTIAL SAFETY HIGH PDSL PRESSURE DIFFERENTIAL SAFETY LOW PDT PRESSURE DIFFERENTIAL TRANSMITTER POV PISTON OPERATED VALVE PI PRESSURE INDICATOR PIC PRESSURE INDICATING CONTROLLER P/I PNEUMATIC TO CURRENT TRANSDUCER PP PRESSURE TEST POINT PR PRESSURE RECORDER PRC PRESSURE RECORDER CONTROLLER PS PRESSURE SWITCH PSE PRESSURE SAFETY ELEMENT PSH PRESSURE SAFETY HIGH PSL PRESSURE SAFETY LOW PSV PRESSURE SAFETY VALVE PSHL PRESSURE SWITCH HIGH-LOW PSIG POUNDS PER SQUARE IN GAGE PT PRESSURE TRANSMITTER PV PLUG VALVE	SC SPEED CONTROLLER SCSSV SURFACE CONTROLLED SUBSURFACE SAFETY VALVE SDV SHUTDOWN VALVE SDR SHUTDOWN RELAY SH STACK HEAD SI SPEED INDICATOR SP SPECIAL SR SPEED RECORDER SS SPEED SWITCH/STEAM SUP. SSH SPEED SAFETY HIGH SSL SPEED SAFETY LOW SSV SURFACE SAFETY VALVE ST SPEED TRANSMITTER STB SUCTION STABILIZER STR STRAINER STV STRAIGHTENING VANES SW SIGHT WINDOW	UA UNIT ALARM USH ULTRAVIOLET/INFRARED FLAME DETECTOR USV UNDERWATER SAFETY VALVE	VPSV VACUUM PRESSURE SAFETY VALVE VS VIBRATION SWITCH	YSH SMOKE DETECTOR (IONIZATION)
D	L	M	N	O	P	Q	R
DE DENSITY ELEMENT DPC DIFFERENTIAL PRESSURE CONTROLLER DPI DIFFERENTIAL PRESSURE INDICATOR DR DENSITY RECORDER DV DIVERT VALVE	LA LEVEL ALARM LAH LEVEL ALARM HIGH LAHL LEVEL ALARM HIGH-LOW LAL LEVEL ALARM LOW LC LEVEL CONTROLLER LCV LEVEL CONTROL VALVE LDC LOCK DEVICE CLOSED LDO LOCK DEVICE-OPEN LG LEVEL GAUGE LI LEVEL INDICATOR LIC LEVEL INDICATING CONTROLLER LR LEVEL RECORDER LRC LEVEL RECORDER CONTROLLER LS LEVEL SWITCH LSDH LEVEL SHUTDOWN HIGH LSDL LEVEL SHUTDOWN LOW LSH LEVEL SAFETY HIGH LSL LEVEL SAFETY LOW LT LEVEL TRANSMITTER LY LEVEL RELAY	M METER MA MOISTURE ANALYZER MAA MOISTURE ANALYZER ALARM M/A MANUAL-AUTOMATIC SYSTEM MCC MOTOR CONTROL CENTER MCI MOTOR CONTROLLED VALVE INDICATOR MDV MAIN DIVERT VALVE MLS MANUAL LOADING STATION MOV MOTOR OPERATED VALVE MS MANUAL SET POINT STATION MSS MANUAL SELECTOR STATION MX MIXER	NC NORMALLY CLOSED NO NORMALLY OPEN NOC NET OIL COMPUTER NS NITROGEN SUPPLY NV NEEDLE VALVE	OST OVERSPEED TRIP	PA PRESSURE ALARM PAH PRESSURE ALARM HIGH PAL PRESSURE ALARM LOW PC PRESSURE CONTROLLER PCV PRESSURE CONTROL VALVE PD PULSATION DAMPENER PDC PRESSURE DIFFERENTIAL CONTROLLER PDCV PRESSURE DIFFERENTIAL CONTROL VALVE PDI PRESSURE DIFFERENTIAL INDICATOR PDIK PRESSURE DIFFERENTIAL INDICATING CONTROLLER PDSH PRESSURE DIFFERENTIAL SAFETY HIGH PDSL PRESSURE DIFFERENTIAL SAFETY LOW PDT PRESSURE DIFFERENTIAL TRANSMITTER POV PISTON OPERATED VALVE PI PRESSURE INDICATOR PIC PRESSURE INDICATING CONTROLLER P/I PNEUMATIC TO CURRENT TRANSDUCER PP PRESSURE TEST POINT PR PRESSURE RECORDER PRC PRESSURE RECORDER CONTROLLER PS PRESSURE SWITCH PSE PRESSURE SAFETY ELEMENT PSH PRESSURE SAFETY HIGH PSL PRESSURE SAFETY LOW PSV PRESSURE SAFETY VALVE PSHL PRESSURE SWITCH HIGH-LOW PSIG POUNDS PER SQUARE IN GAGE PT PRESSURE TRANSMITTER PV PLUG VALVE	QC QUALITY CONTROL QCA QUALITY CONTROL ALARM QCI QUALITY CONTROL INDICATOR	RC RATIO CONTROLLER RO RESTRICTION ORIFICE RR RATIO RELAY RTD RESISTANCE TEMPERATURE DETECTOR RTU REMOTE TERMINAL UNIT

ADDITIONAL INSTRUMENT ABBREVIATIONS, IF REQUIRED

THE FOLLOWING TABLE IS A GUIDE FOR ADDING ABBREVIATIONS

USUAL OR PREFERRED USAGE			
FIRST POSITION	SECOND POSITION	THIRD POSITION	FOURTH POSITION
A ANALYSIS	ALARM	ALARM/ADJUSTABLE	
B BURNER COMBUSTION			
C	CONTROL CONTROLLER	CONTROL CONTROLLER	CONTROLLER
D DENSITY/DIFFERENTIAL/DIVERT	DIFFERENTIAL		
E VOLTAGE (EMP)/EMERGENCY	SENSOR (PRIMARY ELEMENT)	ELEMENT	
F FLOW RATE	FRACTION (RATIO)		
G	GLASS VIEWING DEVICE		
H HAND INITIATED		HIGH	HIGH
I CURRENT (ELECTRICAL)	INDICATOR, INDICATING	INDICATOR	INDICATOR
J POWER/SCAN	SCAN		
K TIME	TIME RATE OF CHANGE	CONTROL STATION	
L LEVEL	LIGHT (PLOT)	LOW	LOW
M	MOMENTARY		MIDDLE/INTERMEDIATE
N			
O	ORIFICE (RESTRICTION)		
P PRESSURE OR VACUUM	POINT (TEST CONNECTION)		
Q QUANTITY	INTEGRATE (TOTALIZE)		
R RADIATION	RECORDER		RECORDER
S SPEED/FREQUENCY/SAFETY	SWITCH, SAFETY		
T TEMPERATURE	TRANSMIT		
U MULTIVARIABLE	MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V VIBRATION, MACHINERY ANALYSIS	VALVE/DAMPENER/LOUVER		
W WEIGHT OR FORCE	WELL		
X UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED
Y EVENT, STATE OR PRESENCE	Y AXIS	RELAY/COMPUTE	
Z POSITION, DIMENSION	Z AXIS	DRIVER/ACTUATE/UNCL. FINAL CONT. ELEM.	

BLANK SPACE INDICATES THERE IS NO USUAL OR PREFERRED USAGE.

VALVE IDENTIFICATION

EXAMPLE: 12-G-E-1001

TYPE: 1. GATE, 2. BALL, 3. PLUG, 4. GLOBE, 5. CHECK, 6. NEEDLE, 7. BUTTERFLY, 9. GAUGE

FACING: S SCREWED, R RAISED FACE, J RING JOINT, Z SOCKET WELD, V VICTAULIC OPLG, F FLAT FACE, W WELDED, U UNION, X SOLDERED

DESIGN: R REDUCED PORT, F FULL PORT, S FLAPPER CHECK, P PISTON CHECK, B BALL CHECK, M MNPT X FNPT, T FNPT X FNPT, L LUG TYPE, O MNPT X MNPT

SPECIAL: 1 HIGH TEMP TRIM, 2 BLOCK AND BLEED, 3 W/LOCKING DEVICE, 4 STAINLESS STEEL, 5 BRASS/BRONZE, 6 OTHER

LINE IDENTIFICATION

EXAMPLE: 12-G-E-1001

CLASS AND RATING INDEX

CLASS	ANSI RATING
A	150#
B	300#
C	400#
D	600#
E	900#
F	1500#
G	2500#/6000PSIG

OTHER ABBREVIATIONS

CLASS AND RATING INDEX

CLASS	ANSI RATING
H	2000#
J	3000#
K	5000#
L	10,000#
M	15,000#
N	20,000#

LINE SERVICE DESIGNATIONS

PROCESS LINES	NO. SERIES
G GAS	1000
O OIL	1000
PW PRODUCED WATER	1000

UTILITIES, GENERAL

AI AIR, INSTRUMENT	5000
AU AIR, UTILITY	5000
GI GAS, INSTRUMENT	5000
GU GAS, UTILITY	5000
HY HYDRAULIC	5000

UTILITY GAS & FUEL

BC BLANKET GAS	6000
DF DIESEL FUEL	6000
FG FUEL GAS	6000
N NITROGEN	6000

UTILITY OILS

LO LUBE OIL	7000
SO SEAL OIL	7000

CAUSTIC & CHEMICAL

C CHEMICAL	8000
GL GLYCOL	8000
K CAUSTIC	8000

OTHERS

PL PIPELINE	9000
FL FLOWLINE	9000

SPECIFICATIONS

- PROCESS LINES
- DRAINS AND RELIEFS
- STEAM AND CONDENSATE
- UTILITY WATER
- UTILITIES, GENERAL
- UTILITY GAS AND FUEL
- UTILITY OILS
- CAUSTIC AND CHEMICAL
- OTHERS

NO.	DATE	REVISIONS	BY/CHK/APP	NO.	DATE	REVISIONS	BY/CHK/APP
A	12/3/98	FOR REVIEW					
O	2/27/97	GENERAL REVISIONS					

ENRON Oil & Gas Company

APPROVED BY: **AFI** A. F. INDUSTRIES

DESCRIPTION: MECHANICAL FLOW DIAGRAM LEGEND SHEET EUGENE ISLAND BLK. 135 "A"

P.O. BOX 3123 LAFAYETTE LA. 70508

DATE: 02-27-97

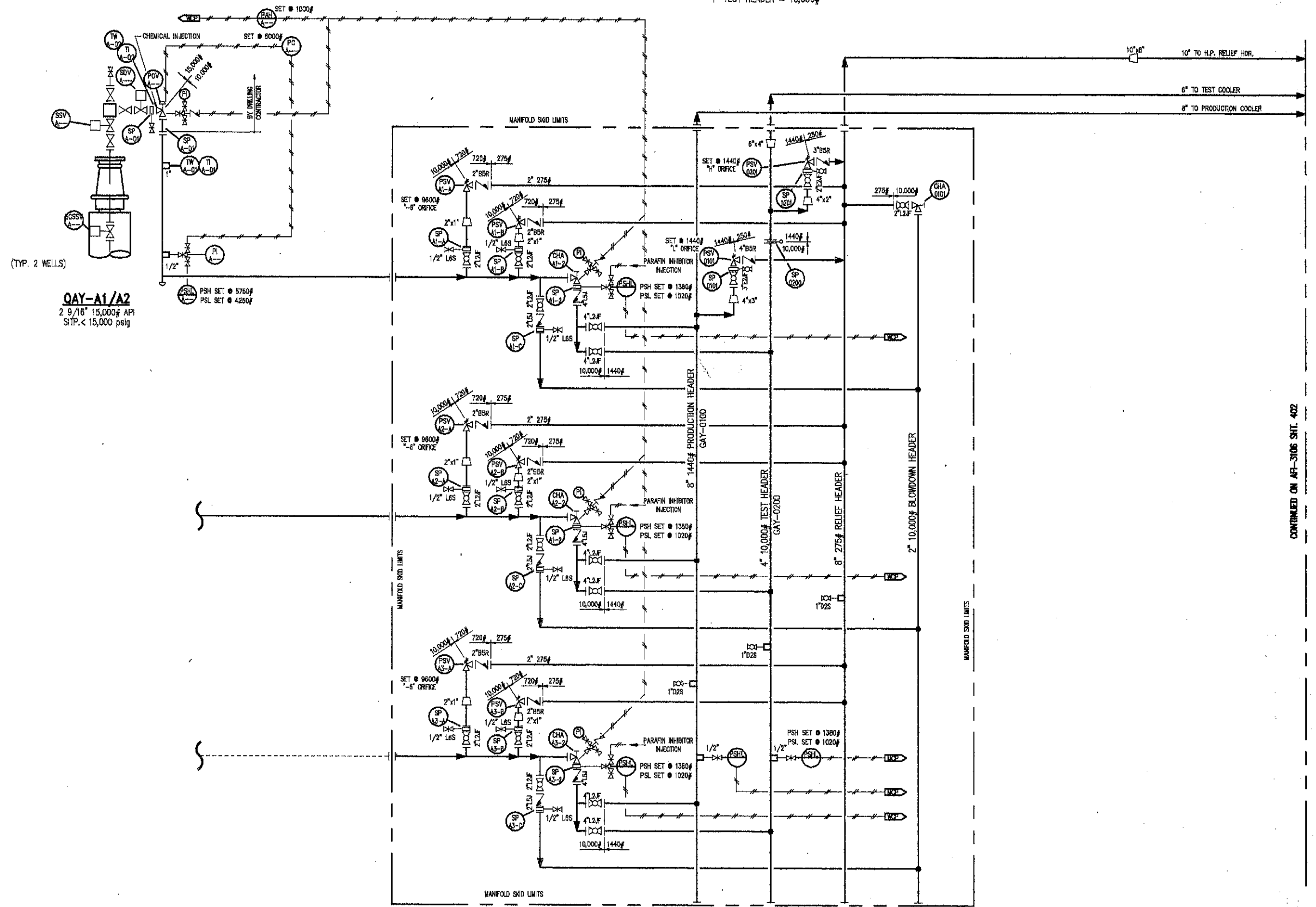
NO. 3258

3258-400

SIZE:
DESIGN:
OPERATING:
CAPACITY:

QAY-0100/0200
15,000# API WELLHEAD
2 9/16" API
15,000#

GAY-0100/0200/0300
PRODUCTION MANIFOLD
8" PRODUCTION HEADER = 1440#
4" TEST HEADER = 10,000#



QAY-A1/A2
2 9/16" 15,000# API
SITP < 15,000 psig

- NOTES:**
1. ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 10,000# M.W.P. (ENRON SPEC. 1/2" LBS) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 6000# SOLID HEX HEAD S.S. PLUGS U.N.O.
 2. ALL 1/2" GAGE VALVES SHOWN ARE TO BE 10,000# M.W.P. (ENRON SPEC. 1/2" LBS) WITH 1/2" BLEED VALVE & S.S. HEX. HEAD PLUG.
 3. ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL GAGES ARE TO BE 2000# M.W.P. (ENRON SPEC. 3/4" ODS), DRAIN VALVES ARE TO BE (ENRON SPEC. 1/2" ODS)
 4. ALL 1" ISOLATION & DRAIN VALVES SHOWN AT LEVEL SAFETY HIGH & LOW ARE TO BE 2000# M.W.P. (ENRON SPEC. 1" ODS)

NO.	DATE	REVISIONS	BY/CHK/APP	NO.	DATE	REVISIONS	BY/CHK/APP
A	12/3/96	FOR REVIEW					
D	2/27/97	ISSUED FOR CONSTRUCTION					
1	3/28/97	GENERAL REVISION					
2	5/22/97	GENERAL REVISION					
3	7/21/97	AS BUILT					

CUSTOMER: **ENRON Oil & Gas Company**

DESIGNED BY: **A. F. INDUSTRIES**

DESCRIPTION: **MECHANICAL FLOW DIAGRAM WELLHEAD, INCOMING LINES, & PROD. MANIFOLD EUGENE ISLAND B.L.C. 135 "A"**

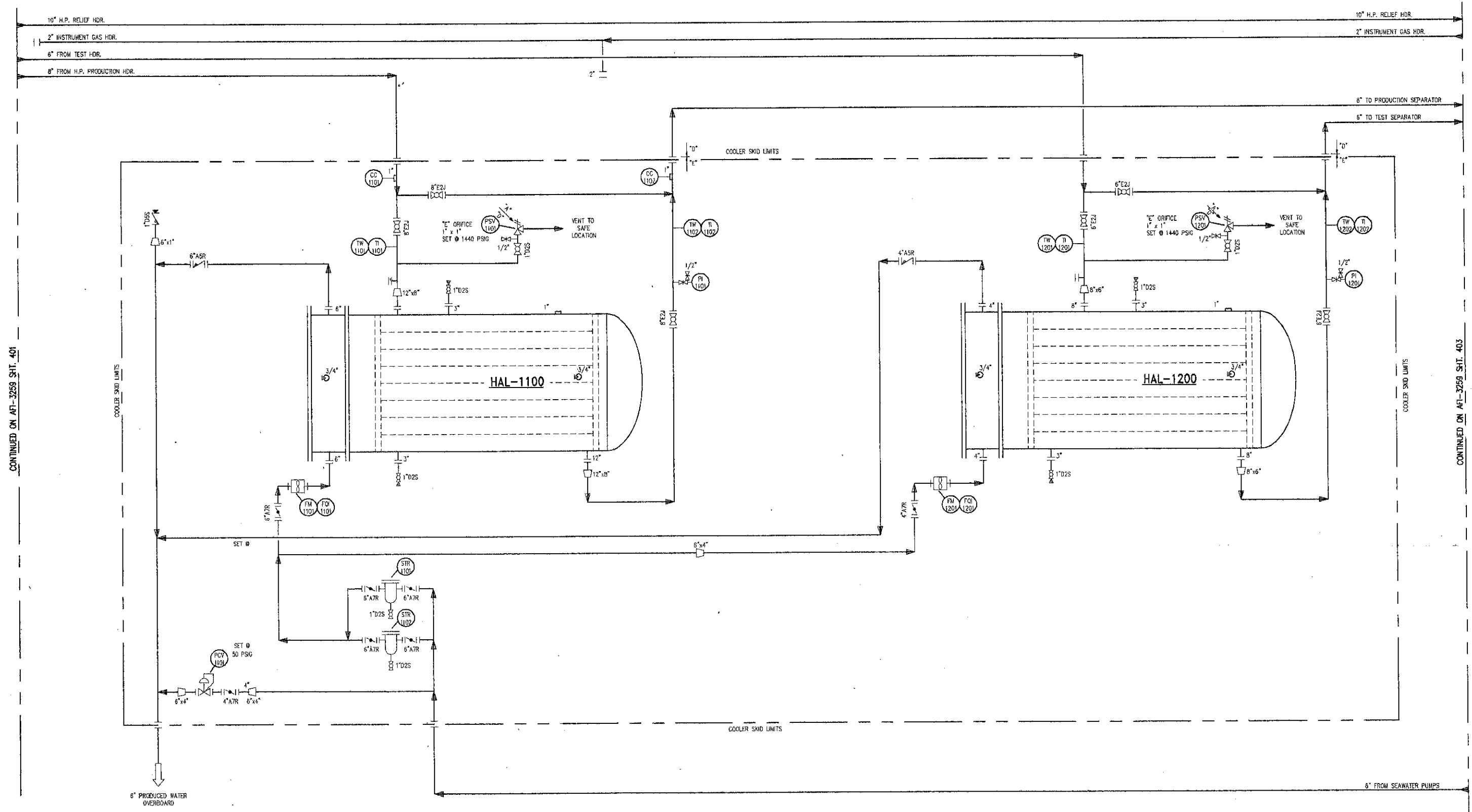
P.O. NO. 3259, JOB NO. 3259, DATE 07-21-97, APPROVED BY: [Signature]

CONTINUED ON AF-3106 SHI. 402

SIZE:
DESIGN:
OPERATING:
CAPACITY:

**HAL-1100
PRODUCTION COOLER**
SHELL/TUBE 23" I.D. x 24'-0" LG. / 3/4" O.D. x 24'-0" LG.
SHELL/TUBE 1440 PSIG @ 250° F / 245 PSIG @ 250° F
1100 PSIG @ 165° F
7.5 MMBTU/HR

**HAL-1200
TEST COOLER**
SHELL/TUBE 20" O.D. x 20'-0" LG. / 3/4" O.D. x 20'-0" LG.
SHELL/TUBE 1440 PSIG @ 250° F / 245 PSIG @ 250° F
1100 PSIG @ 165° F
2.5 MMBTU/HR



CONTINUED ON AFI-3258 SHT. 401

CONTINUED ON AFI-3258 SHT. 403

NOTES:

- ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2" GSS) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 6000# SOLID HEX HEAD S.S. PLUGS U.N.O.
- ALL 1/2" GAGE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2" GSS) WITH 1/2" BLEED VALVE & S.S. HEX. HEAD PLUG.
- ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL GAGES ARE TO BE 2000# M.W.P. (ENRON SPEC. 3/4" D2S). DRAIN VALVES ARE TO BE (ENRON SPEC. 1/2" GSS).
- ALL 1" ISOLATION, VENT & DRAIN VALVES SHOWN AT LEVEL SAFETY HIGHS & LOWS ARE TO BE 2000# M.W.P. (ENRON SPEC. 1" D2S).

SUPPLEMENTAL REVISIONS	NO.	DATE	REVISIONS	BY	CHK	APP	NO.	DATE	REVISIONS	BY	CHK	APP
	A	12/3/96	FOR REVIEW									
	B	2/27/97	GENERAL REVISIONS									
	C	3/26/97	REVISED FOR CONSTRUCTION									
	1	5/22/97	GENERAL REVISIONS									
	2	6/25/97	AS BUILT									

CUSTOMER: **ENRON Oil & Gas Company**

PREPARED BY: **AFI INDUSTRIES**
P.O. BOX 91731
LAFAYETTE LA. 70509

DESCRIPTION: **MECHANICAL FLOW DIAGRAM
PRODUCTION & TEST COOLER
EUGENE ISLAND BLK. 135 "A"**

P.O. NO. _____ JOB NO. 3258 ENGR. _____ DWG. BY D. GUBRY DWG. NO. AFI 3258-402
APPROVED BY _____ DATE _____ CHK. BY _____ DATE 06-25-97

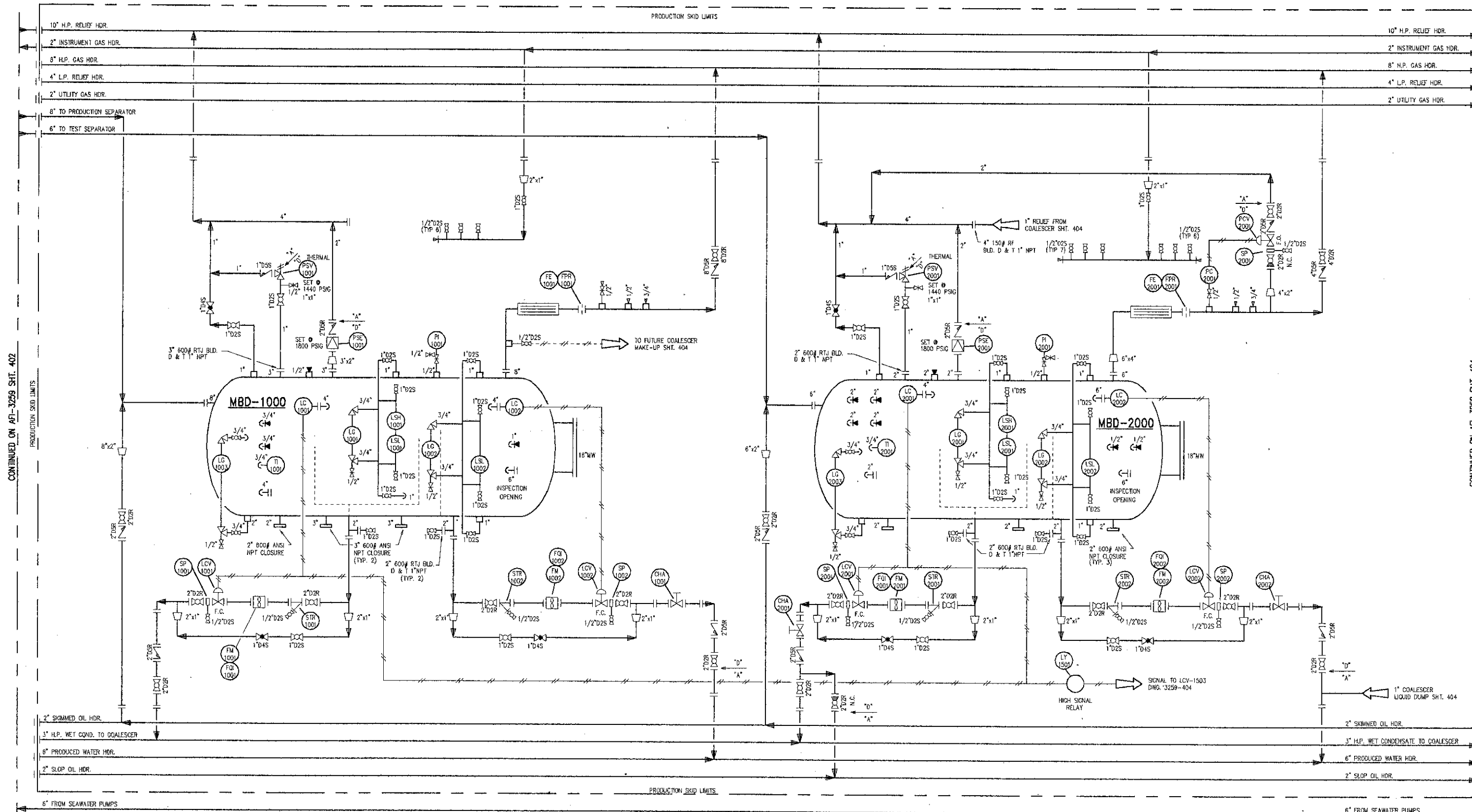
**MBD-1000
PRODUCTION SEPARATOR**

48" O.D. x 15'-0" S/S
1440 PSIG @ 130° F
1100 PSIG @ 100° F
75 MMSCFD, 3000 BCPD, 1500 BWPD

**MBD-2000
TEST SEPARATOR**

42" O.D. x 10'-0" S/S
1440 PSIG @ 130° F
1100 PSIG @ 100° F
25 MMSCFD, 1000 BCPD, 500 BWPD

SIZE:
DESIGN:
OPERATING:
CAPACITY:



CONTINUED ON AFI-3259 SHT. 402

CONTINUED ON AFI-3259 SHT. 404

- NOTES:**
1. ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"GS) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 6000# SOLID HEX HEAD S.S. PLUGS U.N.O.
 2. ALL 1/2" GAGE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"GS) WITH 1/2" BLEED VALVE & S.S. HEX. HEAD PLUG.
 3. ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL GAUGES ARE TO BE 2000# M.W.P. (ENRON SPEC. 3/4"DS), DRAIN VALVES ARE TO BE (ENRON SPEC. 1/2"GS)
 4. ALL 1" ISOLATION, VENT & DRAIN VALVES SHOWN AT LEVEL, SAFETY HIGHs & LOWs ARE TO BE 2000# M.W.P. (ENRON SPEC. 1"DS).

SUPERVISORIAL		REVISIONS		REVISIONS		CUSTOMER	
NO	DATE	BY	CHK/APP	NO	DATE	BY	CHK/APP
A	12/1/96						
0	2/21/97						
1	9/25/97						

ENRON Oil & Gas Company

PREPARED BY: **A. F. INDUSTRIES**
P.O. BOX 91731
LAFALETTE LA 70509

DESCRIPTION: **MECHANICAL FLOW DIAGRAM
PRODUCTION & TEST SEPARATOR
EUGENE ISLAND BLK. 135 "A"**

APPROVED BY: _____ DATE: _____ ENGR: _____ DATE: _____

DRAWN BY: D. GUIDRY DATE: 06-25-97

PROJECT NO. 3259 DWG. NO. 3259-403

**MAD-1500
CONDENSATE COALESCER**

30" O.D. x 7'-0" S/S
1440 PSIG @ 130° F
1100 PSIG @ 100° F
4000 BCPD

**PBE-8050
L.P. VENT SCRUBBER PUMP**

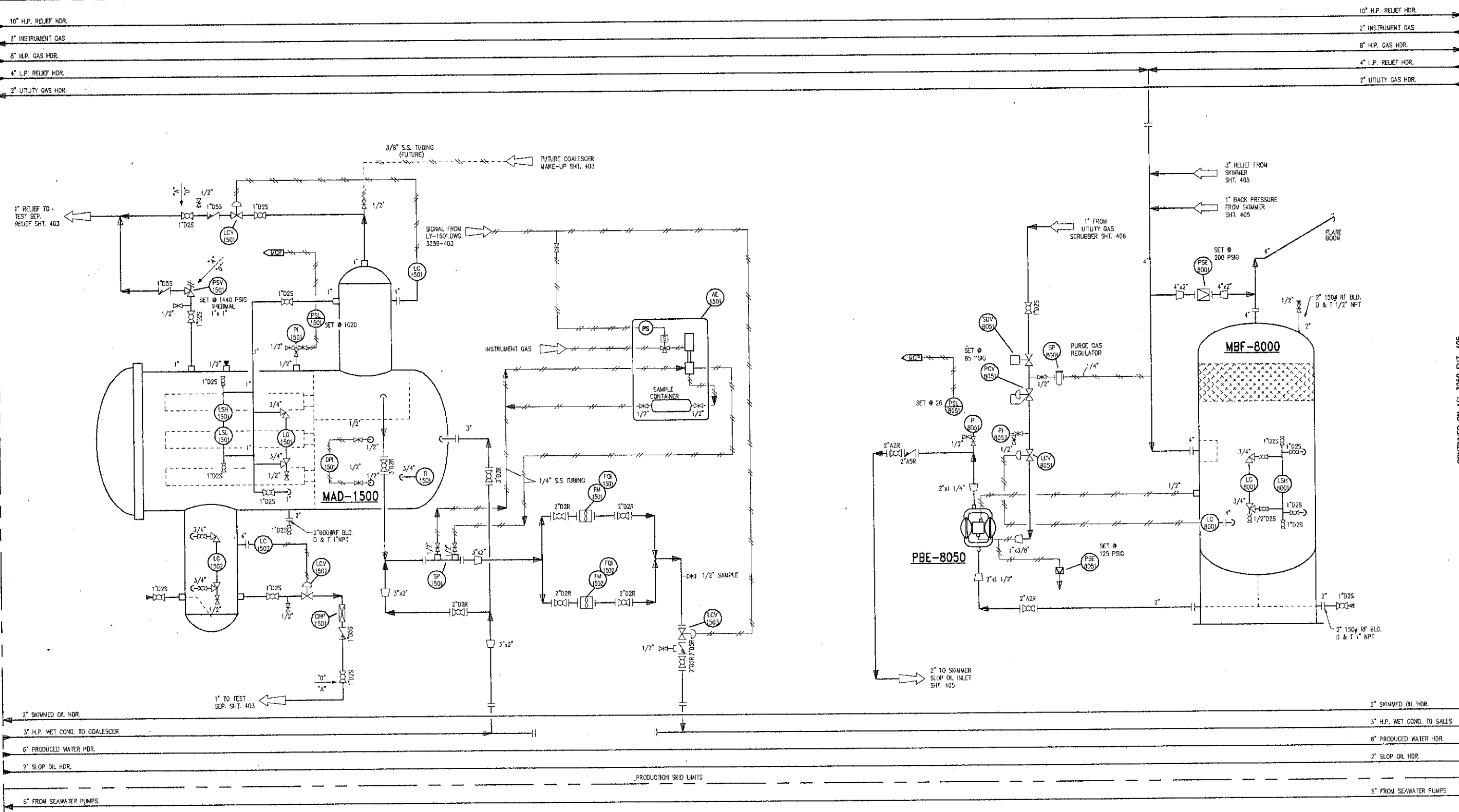
WILDEN M4
125 PSIG MAX. DISCHARGE PRESSURE
50 GPM @ 30 PSIG

**MBF-8000
L.P. VENT SCRUBBER**

20" O.D. x 5'-0" S/S
285 PSIG @ 100° F
40 PSIG @ 100° F
4 MMSCFD, 120 BCPD, 3000 BLPD

SIZE:
DESIGN:
OPERATING:
CAPACITY:

PRODUCTION SKID LIMITS



CONTINUED ON AFI-3259 SHT. 403

CONTINUED ON AFI-3259 SHT. 405

NOTES:

- ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2" G65) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 6000# SOLID HEX HEAD S.S. PLUGS UNDO.
- ALL 1/2" GATE VALVES SHOWN ARE TO BE 8000# M.W.P. (ENRON SPEC. 1/2" G65) WITH 1/2" BLEED VALVE & S.S. HEX HEAD PLUG.
- ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL GAGES ARE TO BE 2000# M.W.P. (ENRON SPEC. 3/4" D25), DRAIN VALVES ARE TO BE (ENRON SPEC. 1/2" G65).
- ALL ISOLATION/VENT & DRAIN VALVES SHOWN AT LEVEL SAFETY HIGH & LOWs ARE TO BE 2000# M.W.P. (ENRON SPEC. 1" D25).

NO	DATE	REVISIONS	BY/CHK/APP	NO	DATE	REVISIONS	BY/CHK/APP
A	12/3/96	FOR REVIEW					
D	2/7/97	ISSUED FOR CONSTRUCTION					
1	3/26/97	GENERAL REVISION					
2	5/23/97	GENERAL REVISION					
3	6/25/97	AS BUILT					
4	7/15/97	REVISED AS BUILT					

ENRON Oil & Gas Company

AFI **A. F. INDUSTRIES**

MECHANICAL FLOW DIAGRAM
CONDENSATE COALESCER & L.P. VENT SCRUBBER
EUGENE ISLAND BLK. 135 "A"

DATE: 07-15-97
SHEET NO: 404

**MBM-3000
PRODUCED WATER SKIMMER**

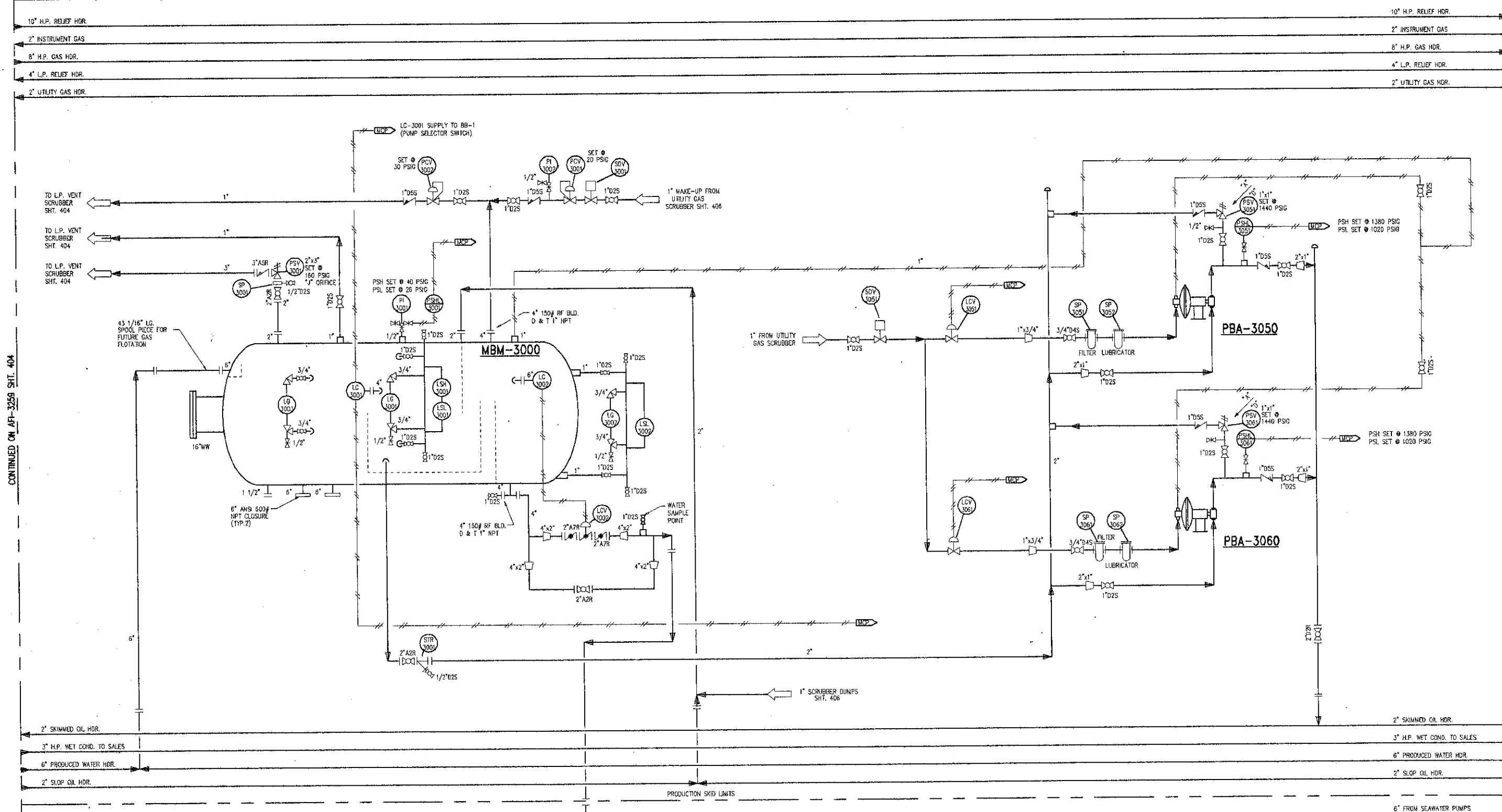
54" I.D. X 15'-0" S/S
160 PSIG @ 150° F
30 PSIG @ 100° F
5000 BWPD

SIZE:
DESIGN:
OPERATING:
CAPACITY:

**PBA-3050/3060
SKIMMED OIL PUMPS**

TEXSTEAM 6121
1800 PSIG MAX DISCHARGE PRESSURE
1200 PSIG
9.0 GPM @ 1050 PSIG EACH

PRODUCTION SKID LIMITS



CONTINUED ON AFI-3259 SHIT. 404

CONTINUED ON AFI-3259 SHIT. 405

- NOTES:**
- ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"065) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 6000# SOLID HEX HEAD S.S. PLUGS U.N.O.
 - ALL 1/2" GAGE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"085) WITH 1/2" BLEED VALVE & S.S. HEX. HEAD PLUG.
 - ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL GAGES ARE TO BE 2000# M.W.P. (ENRON SPEC. 3/4"025). DRAIN VALVES ARE TO BE (ENRON SPEC. 1/2"065)
 - ALL 1" ISOLATION, VENT & DRAIN VALVES SHOWN AT LEVEL SAFETY HIGH & LOW ARE TO BE 2000# M.W.P. (ENRON SPEC. 1"025).

SUPPLEMENTAL DRAWINGS		REVISIONS		REVISIONS	
NO.	DATE	DESCRIPTION	BY	CHK	APP
A	12/1/86	FOR REVIEW			
D	2/21/87	ISSUED FOR CONSTRUCTION			
1	3/16/87	GENERAL REVISION			
2	5/23/87	ADDED LCV-3051 & 3061			
3	8/25/87	AS BUILT			

ENRON Oil & Gas Company

Customer: **A. F. INDUSTRIES**
P.O. BOX 91231
LAFAYETTE LA. 70509

DESCRIPTION: **MECHANICAL FLOW DIAGRAM
PRODUCED WATER SKIMMER & SKIMMED OIL PUMPS
EUGENE ISLAND BLK. 135 "A"**

PROJ. NO. 3259
DATE 06-25-87
ENR. BY G. GUDDY
DATE 06-25-87
DWS. NO. AFI
3259-405

SIZE:
DESIGN:
OPERATING:
CAPACITY:

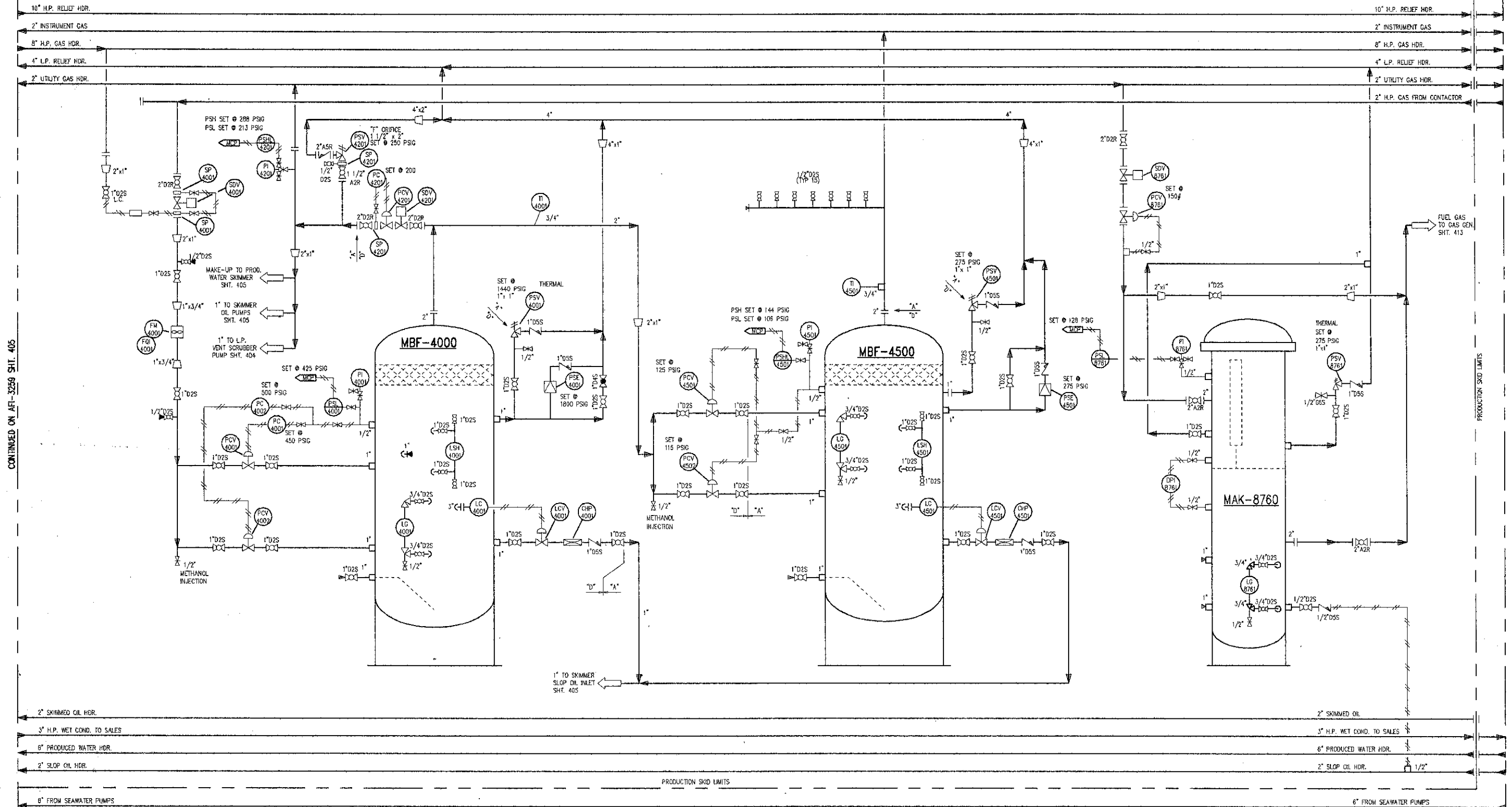
MBF-4000
UTILITY GAS SCRUBBER
16" O.D. x 5'-0" S/S
1440 PSIG @ 130F
500 PSIG @ 100F
250 MSCFD

ZZZ-4200
UTILITY GAS HEADER
2" 275#

MBF-4500
INSTRUMENT GAS SCRUBBER
16" O.D. x 5'-0" S/S
1440 PSIG @ 130F
125 PSIG @ 100F
250 MSCFD

MAK-8760
GENERATOR FILTER SEPARATOR
6 5/8" O.D. x 69 3/4" O.A.L. PECO MODEL# 85-1-FG24
275 PSIG @ 130F
150 PSIG @ 100F
17,000 SCFH

PRODUCTION SKID LIMITS



CONTINUED ON AFI-3259 SHT. 405

CONTINUED ON AFI-3259 SHT. 407

NOTES:

- ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"06S) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 8000# SOLID HEX HEAD S.S. PLUGS U.N.O.
- ALL 1/2" GAGE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"06S) WITH 1/2" BLEED VALVE & S.S. HEX. HEAD PLUG.
- ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL GAGES ARE TO BE 2000# M.W.P. (ENRON SPEC. 3/4"02S). DRAIN VALVES ARE TO BE (ENRON SPEC. 1/2"06S)
- ALL 1" ISOLATION, VENT & DRAIN VALVES SHOWN AT LEVEL SAFETY HIGHS & LOWS ARE TO BE 2000# M.W.P. (ENRON SPEC. 1"02S).

NO.	DATE	REVISIONS	BY/CHK/APP	NO.	DATE	REVISIONS	BY/CHK/APP
A	12/3/96	FOR REVIEW					
0	2/21/97	ISSUED FOR CONSTRUCTION					
1	3/26/97	GENERAL REVISION					
2	5/23/97	GENERAL REVISION					
3	6/25/97	AS BUILT					

ENRON Oil & Gas Company

REVISION BY CUSTOMER

AFI A. F. INDUSTRIES
P.O. BOX 91731
LAFAYETTE, LA. 70509

MECHANICAL FLOW DIAGRAM
VERT. UTILITY & INSTRUMENT GAS SCRUBBERS
EUGENE ISLAND BLK. 135 "A"

APPROVED BY: DATE: 06-25-97

ENR. NO. 3259
DATE: 06-25-97

DWG. NO. 3259-406

SIZE:
DESIGN:
OPERATING:
CAPACITY:

PBE-6500
SUMP PUMP
WILDEN M-4
125 PSIG MAX. DISCHARGE PRESSURE
50 GPM @ 30 PSIG

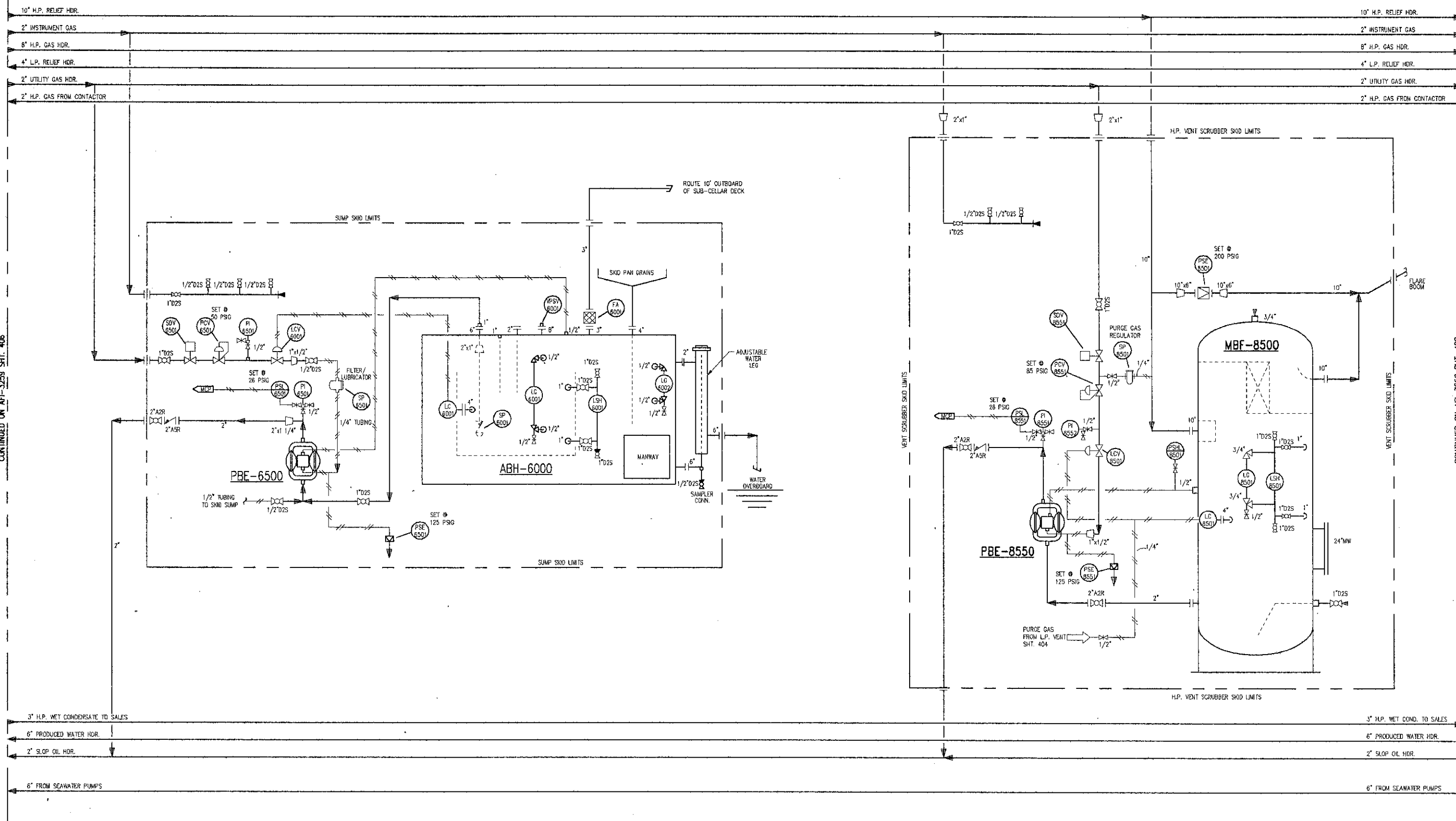
ABH-6000
SUMP TANK
4'-0" x 8'-0" x 4'-0" HIGH
ATMOSPHERIC @ 100°F
ATMOSPHERIC
3000 B.W.P.O.

PBE-8550
H.P. VENT SCRUBBER PUMP
WILDEN M8
125 PSIG MAX. DISCHARGE PRESSURE
7.5 GPM @ 30 PSIG

MBF-8500
H.P. VENT SCRUBBER
72" I.D. x 10'-0" S/S
250 PSIG @ 200° F
80 PSIG @ 165° F
90 MMSCFD, 4000 BLPD

CONTINUED ON AFI-3259 SHT. 406

CONTINUED ON AFI-3259 SHT. 408



NOTES:

- ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2" GSS) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 6000# SOLID HEX HEAD S.S. PLUGS U.N.O.
- ALL 1/2" GATE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2" GSS) WITH 1/2" BLEED VALVE & S.S. HEX. HEAD PLUG.
- ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL CAGES ARE TO BE 2000# M.W.P. (ENRON SPEC. 3/4" GSS). DRAIN VALVES ARE TO BE (ENRON SPEC. 1/2" GSS)
- ALL 1" ISOLATION, VENT & DRAIN VALVES SHOWN AT LEVEL SAFETY HIGHs & LOWs ARE TO BE 2000# M.W.P. (ENRON SPEC. 1" GSS)

SUPPLEMENTAL DRAWINGS				REVISIONS				REVISIONS				CUSTOMER	
NO.	DATE	REVISIONS	BY	CHK	APP	NO.	DATE	REVISIONS	BY	CHK	APP	DATE	DATE
A	11/3/96	FOR REVIEW											
0	2/17/97	ISSUED FOR CONSTRUCTION											
1	3/28/97	GENERAL REVISION											
2	5/21/97	GENERAL REVISION											
3	6/25/97	AS BUILT											
4	7/15/97	REVISED AS BUILT											

ENRON Oil & Gas Company

AFI A. F. INDUSTRIES
P.O. BOX 91731
LAFALETTE, LA. 70508

DESCRIPTION: MECHANICAL FLOW DIAGRAM
H.P. VENT SCRUBBER & SUMP TANK
EUGENE ISLAND BLK. 135 "A"

APPROVED BY: _____ DATE: _____
 DATE: 07-15-97
 DWG. NO. 3259
 DWG. BY: D. QUICRY
 Dwg. No. AFI 3259-407

SIZE:
DESIGN:
OPERATING:
CAPACITY:

**MAK-4900
FILTER SEPARATOR**

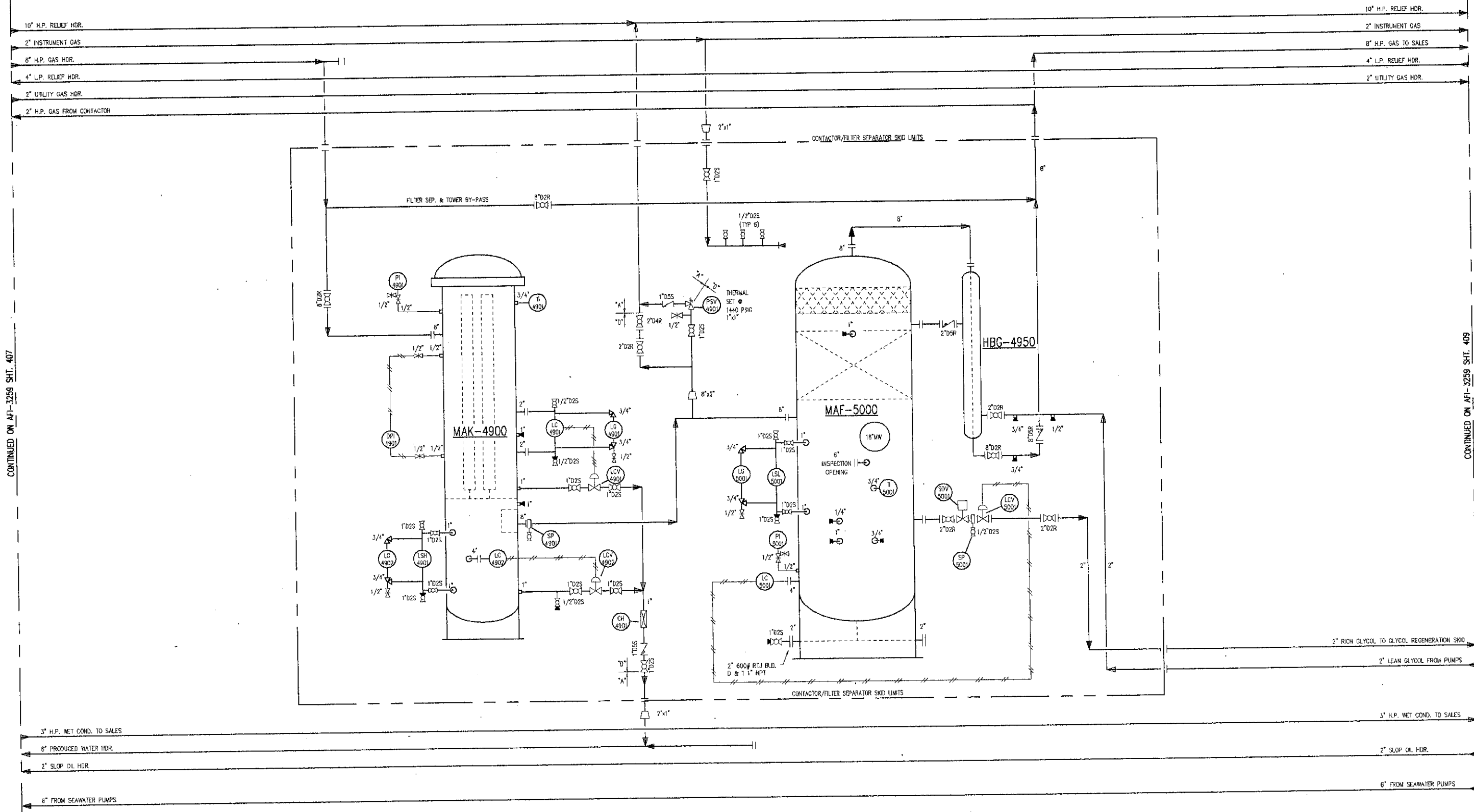
36" O.D. x 12'-0" S/S
1440 PSIG @ 130°F
1100 PSIG @ 100° F
90 MMSCFD

**MAF-5000
GLYCOL CONTACTOR**

42" I.D. x 22'-6" S/S
1440 PSIG @ 130°F
1100 PSIG @ 100° F
90 MMSCFD

**HBG-4950
GAS/GLYCOL
HEAT EXCHANGER**

SHELL/TUBE 12 3/4" O.D. x 21'-6" S/S / 8 5/8" O.D. x 23'-0" F/F
1440 PSIG @ 130°F / 1440 PSIG @ 130°F
1100 PSIG / 100°F



CONTINUED ON AFI-3259 SHIT. 407

CONTINUED ON AFI-3259 SHIT. 409

NOTES:

- ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"085) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 8000# SOLID HEX HEAD S.S. PLUGS U.N.O.
- ALL 1/2" GAGE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"095) WITH 1/2" BLEED VALVE & S.S. HEX. HEAD PLUG.
- ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL GAGES ARE TO BE 2000# M.W.P. (ENRON SPEC. 3/4"025), DRAIN VALVES ARE TO BE (ENRON SPEC. 1/2"085)
- ALL 1" ISOLATION VENT & DRAIN VALVES SHOWN AT LEVEL SAFETY HIGH & LOWS ARE TO BE 2000# M.W.P. (ENRON SPEC. 1"025).

SUPPLEMENTAL DRAWINGS	NO.	DATE	REVISIONS	BY/CHK/APP	NO.	DATE	REVISIONS	BY/CHK/APP
	A	12/3/96	FOR REVIEW					
	0	2/27/97	ISSUED FOR CONSTRUCTION					
	1	3/26/97	GENERAL REVISION					
	2	5/23/97	GENERAL REVISION					
	3	8/25/97	AS BUILT					

ENRON Oil & Gas Company

PROJECT BY: **A. F. INDUSTRIES**
P.O. BOX 91731
LAFAYETTE LA. 70509

DESCRIPTION: **MECHANICAL FLOW DIAGRAM
GLYCOL CONTACTOR & FILTER SEPARATOR
EUGENE ISLAND BLK. 135 "A"**

P.D. NO. [] DWG. NO. 1259 ENR. DATE []
APPROVED BY [] DATE []

ENR. NO. [] DATE []
D. GUDRY
AFI
3259-408

HBG-5500/5550
GLYCOL/GLYCOL HEAT EXCHANGERS

1 1/5 MMBTU/HR
BROWN FIN TUBE MODEL 40-1E000-820
10 SECTION PARALLEL

SIZE:
DESIGN:
OPERATING:
CAPACITY:

BBC-5200
GLYCOL REBOILER/SURGE

48" O.D. x 20'-0" S/S
MAWP ATMOS. @ ___ F
1 MMBTU/HR

PBA-5800/5900
GLYCOL PUMPS

10 HP ROTOR TECH
12 GPM

MAJ-5700
CHARCOAL FILTER

16" O.D. x 5'-0" S/S
MAWP 1440 PSIG @ ___ F

MAJ-5600
GLYCOL SOCK FILTER

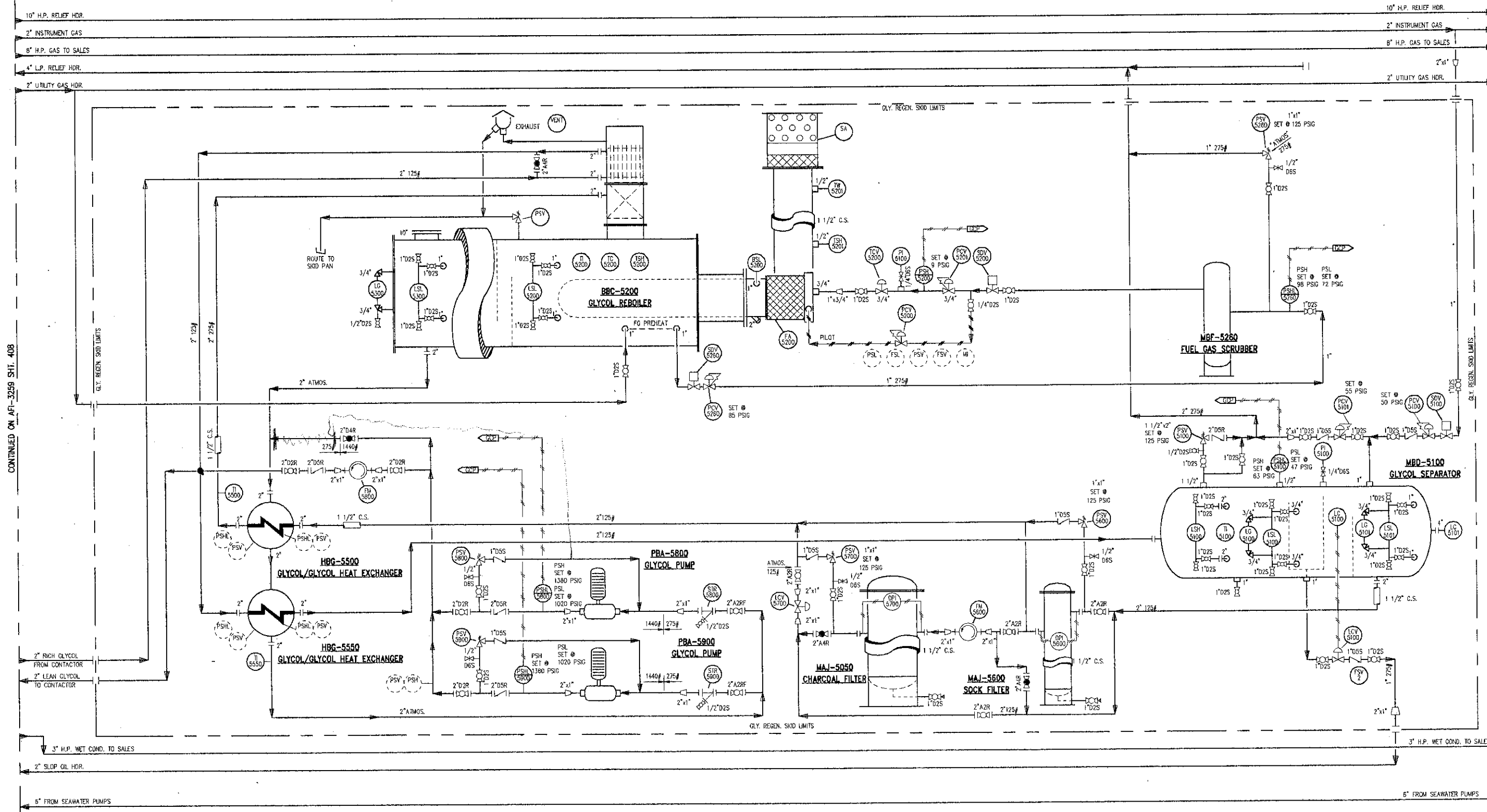
PECO 59-11-336

MBF-5260
FUEL GAS SCRUBBER

10 3/4" O.D. x 4'-0" LG.
MAWP 125 PSIG @ ___ F

MBD-5100
GLYCOL SKIMMER

48" O.D. x 15'-0" S/S
MAWP 125 PSIG @ ___ F



CONTINUED ON AFI-3259 SHI. 40B

CONTINUED ON AFI-3259 SHI. 410

NOTES:

- ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"CGS) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 6000# SOLID HEX HEAD S.S. PLUGS UNL.O.
- ALL 1/2" GAGE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"CGS) WITH 1/2" BLEED VALVE & S.S. HEX. HEAD PLUG.
- ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL CAGES ARE TO BE 2000# M.W.P. (ENRON SPEC. 3/4"OGS). DRAIN VALVES ARE TO BE (ENRON SPEC. 1/2"OGS)
- ALL 1" ISOLATION/VENT & DRAIN VALVES SHOWN AT LEVEL SAFETY HIGH & LOWs ARE TO BE 2000# M.W.P.(ENRON SPEC. 1"OGS).

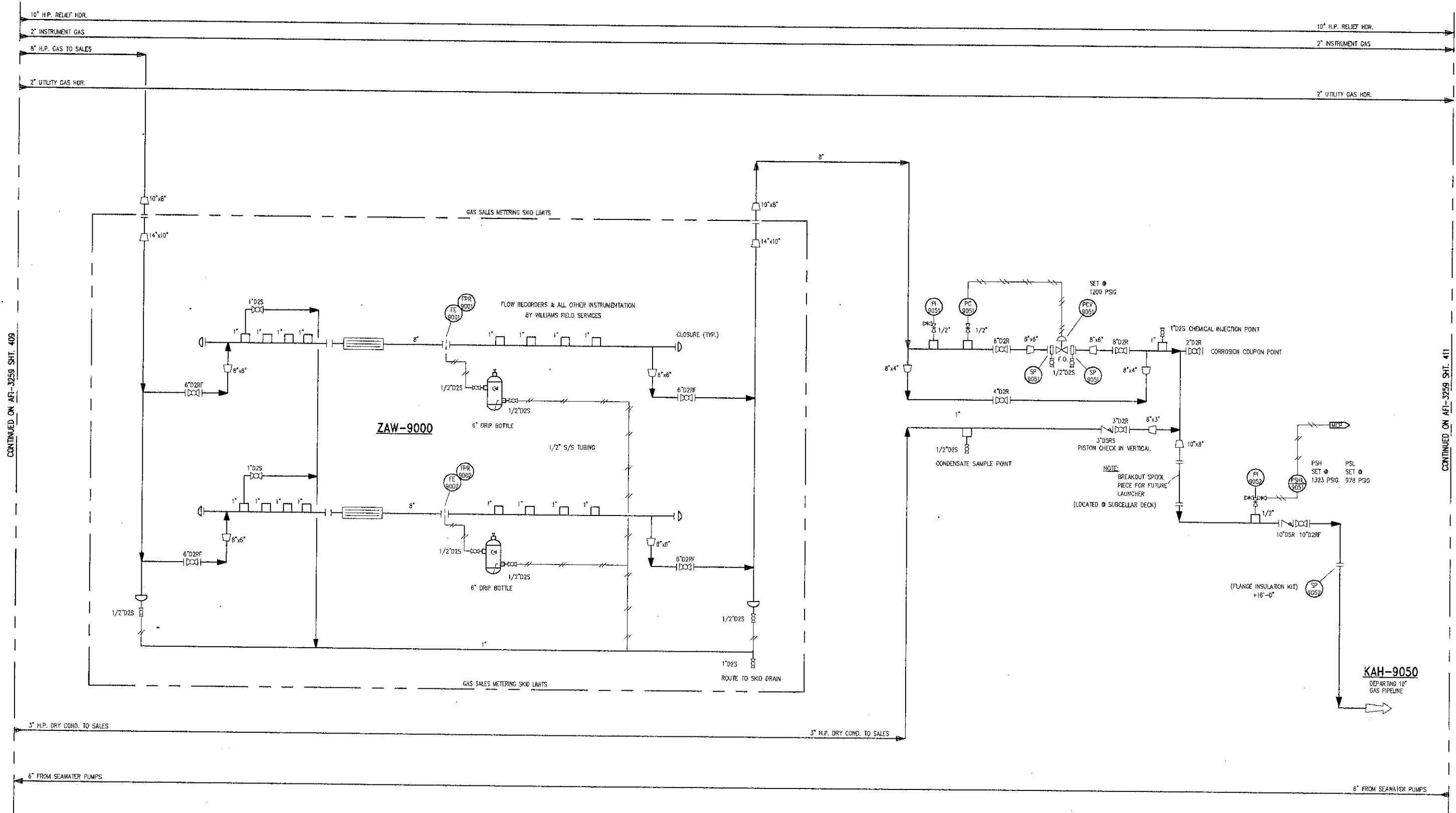
SUPPLEMENTAL DRAWINGS	NO.	DATE	REVISIONS		BY/CHK	APPROV	DATE	REVISIONS		BY/CHK	APPROV
	A	12/13/96	FOR REVIEW								
	0	2/21/97	REVISED PER NATCO								
	1	3/28/97	REVISED FOR CONSTRUCTION								
	2	5/23/97	GENERAL REVISION								
	3	6/25/97	AS BUILT								

		ENRON Oil & Gas Company P.O. BOX 917M LAFAYETTE, LA. 70509		DESCRIPTION MECHANICAL FLOW DIAGRAM GLYCOL REGENERATION SKID EUGENE ISLAND BLK. 135 "A"	
				F.D. NO. APPROVED BY	JOB NO. DATE

**ZAW-9000
GAS SALES METERING SKID**

SIZE:
DESIGN:
OPERATING:
CAPACITY:

**KAH-9050
10" DEPARTING GAS PIPELINE**
1440 PSIG @ 130°F
1150 PSIG @ 110°F



CONTINUED ON AFI-3259 SHT. 409

CONTINUED ON AFI-3259 SHT. 411

NOTES:

1. ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"06S) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 6000# SOLID HEX HEAD S.S. PLUGS U.I.C.O.
2. ALL 1/2" GAGE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"06S) WITH 1/2" BLEED VALVE & S.S. HEX. HEAD PLUG.
3. ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL GAGES ARE TO BE 2000# M.W.P. (ENRON SPEC. 3/4"02S). DRAIN VALVES ARE TO BE (ENRON SPEC. 1/2"06S)
4. ALL 1" ISOLATION, VENT & DRAIN VALVES SHOWN AT LEVEL SAFETY HIGHS & LOWS ARE TO BE 2000# M.W.P. (ENRON SPEC. 1"02S).

SUPPLEMENTAL DRAWINGS		REVISIONS		REVISIONS	
NO	DATE	BY	CHK	NO	DATE
A	12/3/96				
B	2/20/97				
C	5/11/97				
D	5/26/97				
1	5/13/97				
2	6/25/97				

ENRON Oil & Gas Company

PROVIDED BY: **A. F. INDUSTRIES**
P.O. BOX 91731
LAFAYETTE LA. 70509

**MECHANICAL FLOW DIAGRAM
GAS SALES METERING SKID & DEPARTING PIPELINE
EUGENE ISLAND BLK. 135 "A"**

APPROVED BY: [Signature] DATE: 08-25-97

ENGR: [Signature] DATE: []
CHK BY: [Signature] DATE: []
DWC BY: D. GUERRY DATE: []

DWG NO. 3259
DATE: 08-25-97
REV 2
3259-410

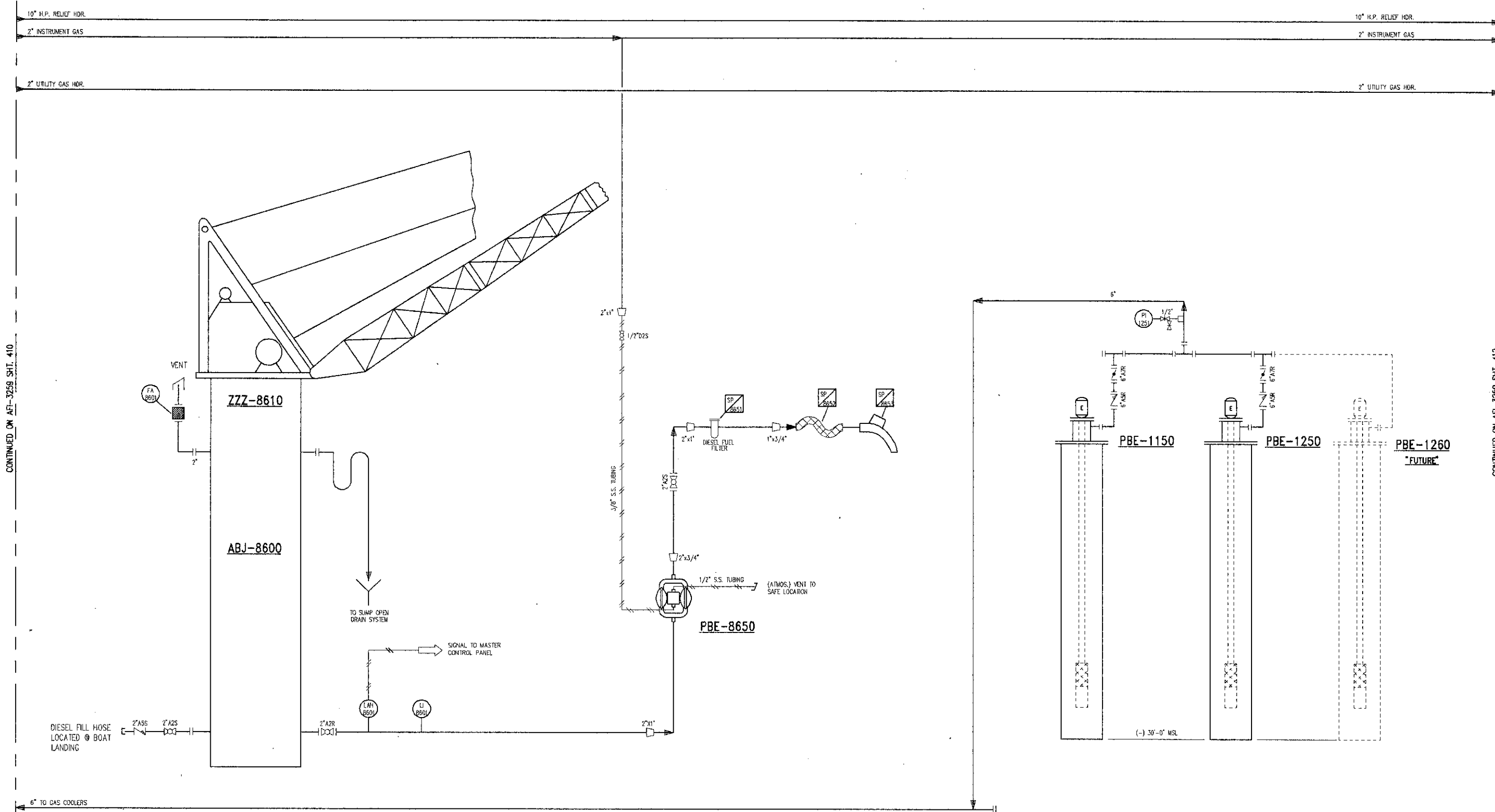
SIZE:
DESIGN:
OPERATING:
CAPACITY:

ZZZ-8610
CRANE
40 TON

ABJ-8600
DIESEL STORAGE TANK
42" DIA.
1400 GAL.
ATMOS. @ 100 F
ATMOS. @ 85 F

PBE-8650
DIESEL TRANSFER PUMP
M.W.P. = 125 PSIG
WILDEN M2
20 GPM @ 30 PSIG DISCHARGE
(MANUALLY OPERATED)

PBE-1150/1250
SEAWATER PUMPS
40 H.P. @ 480V/60HZ/3Ø
510 GPM @ 50 PSIG EACH



CONTINUED ON AFI-3259 SHIT. 410

CONTINUED ON AFI-3259 SHIT. 412

NOTES:

- ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"06S) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 6000# SOLID HEX HEAD S.S. PLUGS U.N.O.
- ALL 1/2" GAGE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"09S) WITH 1/2" BLEED VALVE & S.S. HEX. HEAD PLUG.
- ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL GAGES ARE TO BE 2000# M.W.P. (ENRON SPEC. 3/4"02S), DRAIN VALVES ARE TO BE (ENRON SPEC. 1/2"06S)
- ALL 1" ISOLATION VENT & DRAIN VALVES SHOWN AT LEVEL SAFETY HIGH & LOW ARE TO BE 2000# M.W.P. (ENRON SPEC. 1"02S)

SUPPLEMENTAL DRAWINGS	NO.	DATE	REVISIONS	BY/CHK/APP/NO		DATE	REVISIONS		BY/CHK/APP	
	A	12/3/96	FOR REVIEW							
	B	2/7/97	GENERAL REVISIONS							
	C	3/26/97	REVISED FOR CONSTRUCTION							
	1	5/13/97	GENERAL REVISIONS							
	2	6/26/97	AS BUILT							

ENRON Oil & Gas Company

PREPARED BY: **AFI** A. F. INDUSTRIES
P.O. BOX 91731
LAFAYETTE, LA. 70509

DESCRIPTION: MECHANICAL FLOW DIAGRAM
DIESEL STORAGE TANK & SEAWATER PUMPS
EUGENE ISLAND BLK. 135 "A"

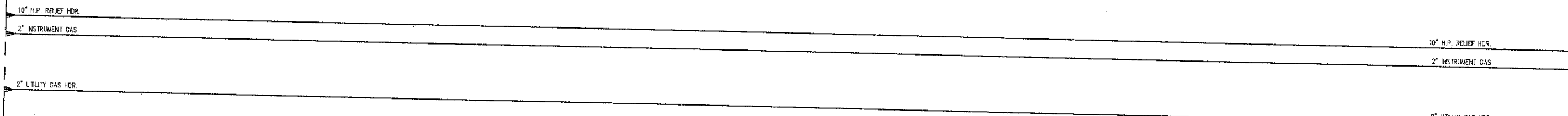
APPROVED BY: _____ DATE: _____
ENGR: _____ DATE: _____
CHK. BY: _____ DATE: _____
DWC BY: D. GUIDRY DATE: 06-25-97
DWC NO. AFI 3259-411

SIZE:
DESIGN:
OPERATING:
CAPACITY:

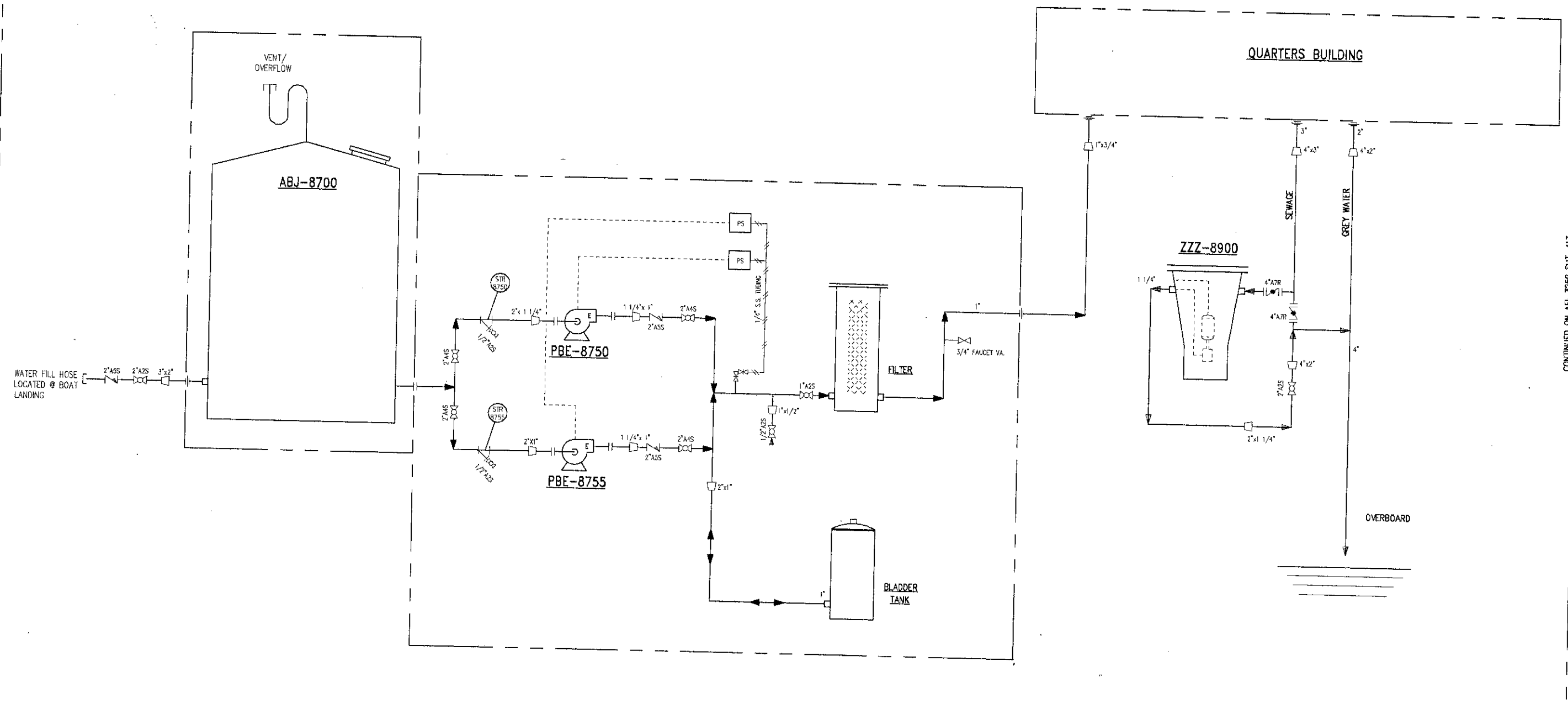
ABJ-8700
POTABLE WATER TANK
12'-0" O.D. x 12'-0" HIGH
ATMOS. PSIG @ 100 F
ATMOS.

PBA-8750/8755
POTABLE WATER PUMPS
1.5 H.P.
VOLTS 208-230/460
AMPS 5-4.6/2.3

ZZZ-8900
SEWAGE GRINDER
24" O.D. x 36" HIGH
2 H.P. 3 PHASE/60 CYCLE/230-460 VOLTS



CONTINUED ON AFI-3259 SHIT. 411



CONTINUED ON AFI-3259 SHIT. 413

- NOTES:**
1. ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC: 1/2"08S) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 6000# SOLID HEX HEAD S.S. PLUGS U.N.O.
 2. ALL 1/2" GAGE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC: 1/2"08S) WITH 1/2" BLEED VALVE & S.S. HEX. HEAD PLUG.
 3. ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL GAGES ARE TO BE 2000# M.W.P. (ENRON SPEC: 3/4"02S), DRAIN VALVES ARE TO BE (ENRON SPEC: 1/2"08S)
 4. ALL 1" ISOLATION, VENT & DRAIN VALVES SHOWN AT LEVEL SAFETY HIGH & LOW ARE TO BE 2000# M.W.P. (ENRON SPEC: 1"02S).

SUPPLEMENTAL DRAWINGS	NO	DATE	REVISIONS	BY	CHK	APP	NO	DATE	REVISIONS	BY	CHK	APP
	A	12/3/96	FOR REVIEW									
	0	2/21/97	ISSUED FOR CONSTRUCTION									
	1	5/21/97	GENERAL REVISION									
	2	6/25/97	AS BUILT									

CUSTOMER: **ENRON Oil & Gas Company**

PREPARED BY: **AFI A. F. INDUSTRIES**
P.O. BOX 91731
LAFAYETTE, LA. 70509

DESCRIPTION: **MECHANICAL FLOW DIAGRAM POTABLE WATER TANK & QUARTERS BUILDING EUGENE ISLAND BLK. 135 "A"**

P.O. NO. [] JOB NO. 3259 ENGR. DATE 06-25-97

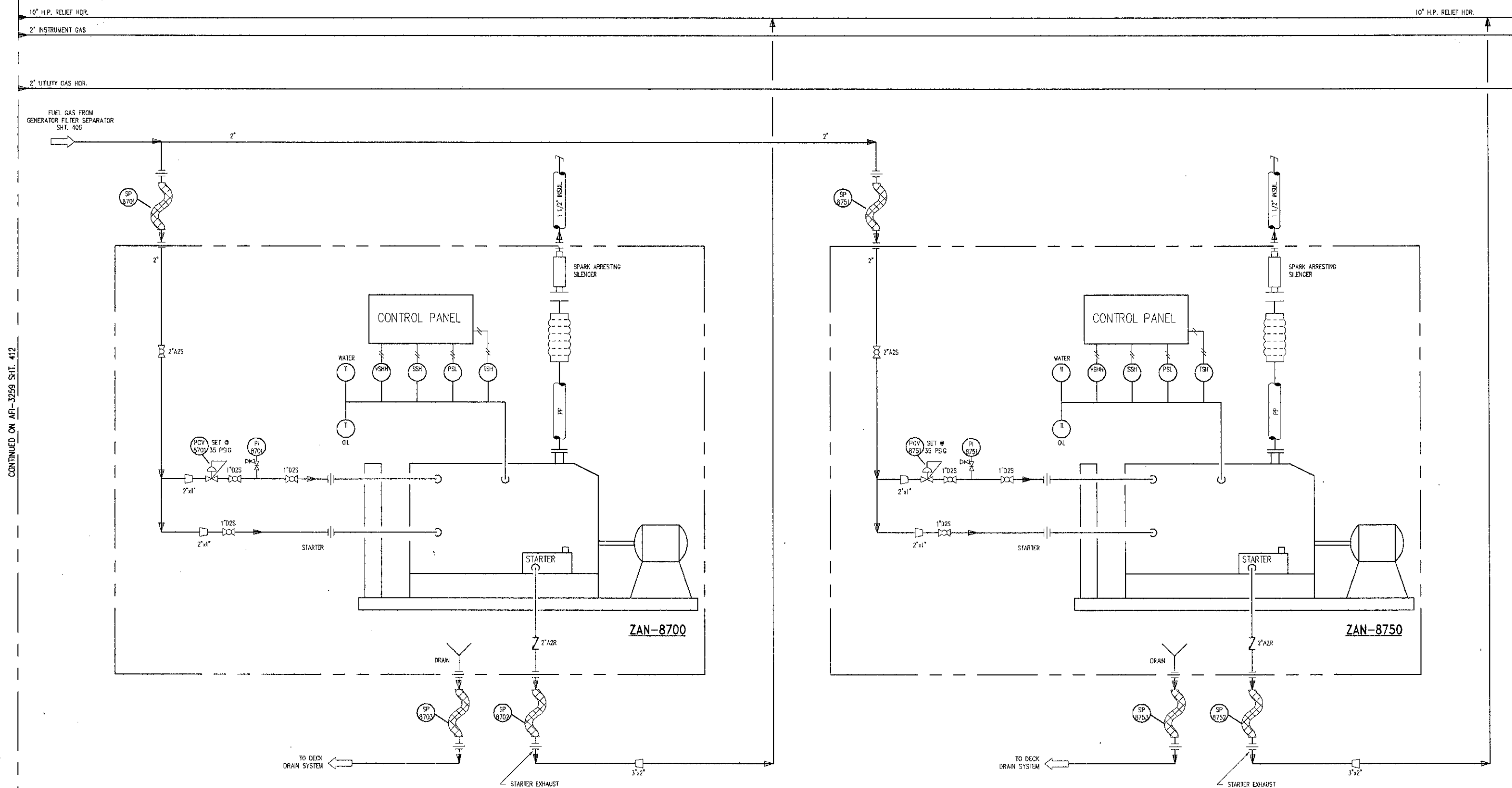
APPROVED BY: [] DATE []

DWG. NO. AFI 3259-412

SIZE:
DESIGN:
OPERATING:
CAPACITY:

ZAN-8700
GAS GENERATOR
ENGINE: CAT. G353 NA LC
GENERATOR: KATO 150KW 3ø/480 V

ZAN-8750
GAS GENERATOR
ENGINE: CAT. G353 NA LC
GENERATOR: KATO 150KW 3ø/480 V



CONTINUED ON AFI-3259 SHT. 412

NOTES:

- ALL 1/2" NEEDLE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"06S) AND PLUGGED ON OPEN END ONLY WITH 1/2" NPT 8000# SOLID HEX HEAD S.S. PLUGS (U.I.O.)
- ALL 1/2" GAGE VALVES SHOWN ARE TO BE 6000# M.W.P. (ENRON SPEC. 1/2"08S) WITH 1/2" BLEED VALVE & S.S. HEX. HEAD PLUG.
- ALL 3/4" ISOLATION VALVES SHOWN AT LEVEL GAGES ARE TO BE 2000# M.W.P. (ENRON SPEC. 3/4"02S), DRAIN VALVES ARE TO BE (ENRON SPEC. 1/2"06S)
- ALL 1" ISOLATION VENT & DRAIN VALVES SHOWN AT LEVEL SAFETY HIGH & LOWS ARE TO BE 2000# M.W.P. (ENRON SPEC. 1"02S).

SUPPLEMENTAL DRAWINGS	NO.	DATE	REVISIONS	BY	CHK	APP	NO.	DATE	REVISIONS	BY	CHK	APP
	A	12/3/96	FOR REVIEW									
	B	2/27/97	FOR REVIEW									
	D	3/28/97	REVISED FOR CONSTRUCTION									
	1	5/23/97	GENERAL REVISION									
	2	6/25/97	AS BUILT									

CUSTOMER: **ENRON Oil & Gas Company**

PREPARED BY: **AFI INDUSTRIES**
P.O. BOX 91731
LAFAYETTE LA 70509

DESCRIPTION: **MECHANICAL FLOW DIAGRAM
GENERATOR FILTER SEPARATOR & GAS GENERATORS
EUGENE ISLAND BLK. 135 "A"**

DEPT NO: 3259
DATE: 06-25-97
ENGR: []
CHK BY: []
DWC BY: []
DATE: []
DWC NO: []
AFI: []
3259-413