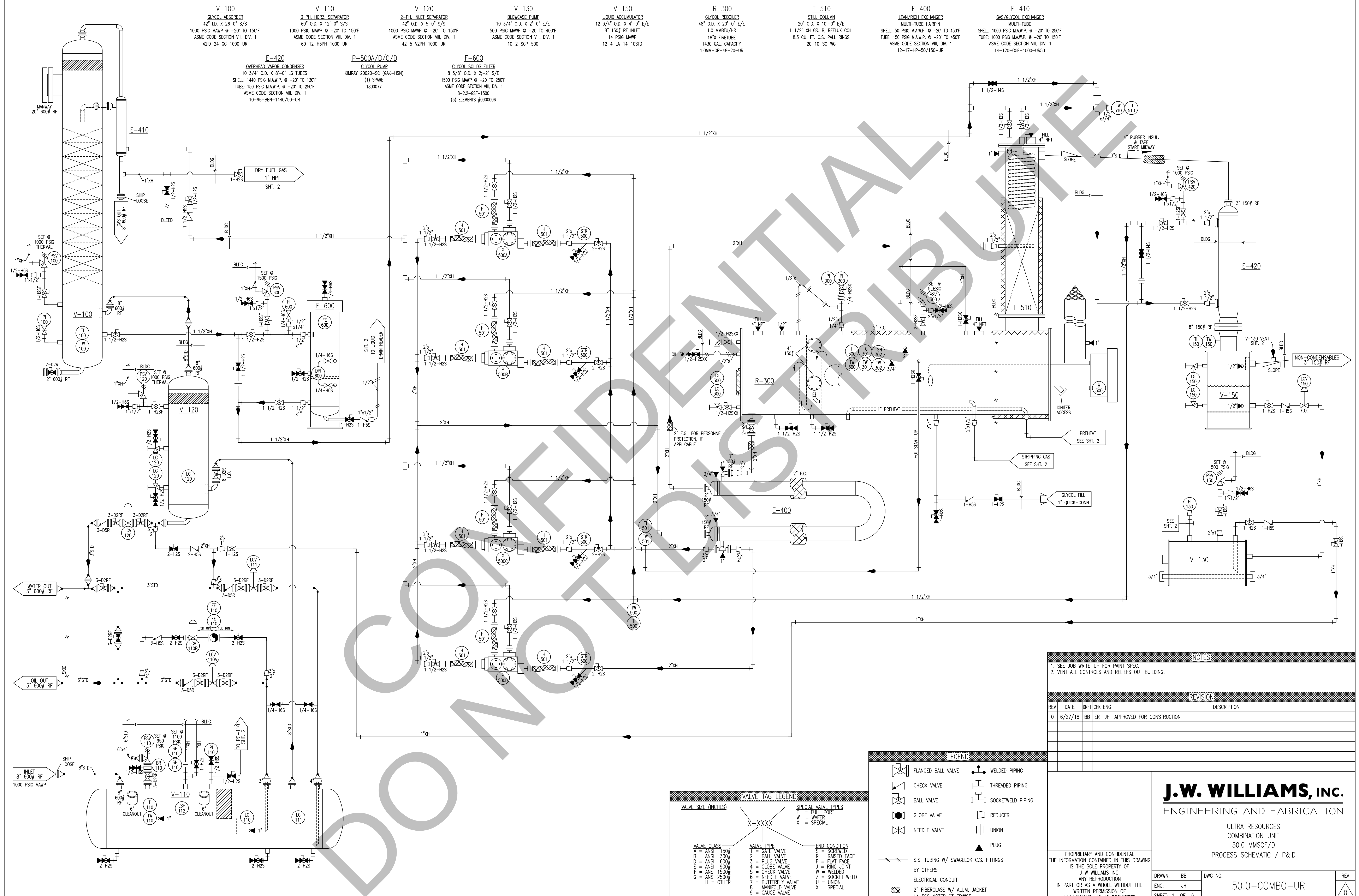




NOTES

1. SEE JOB WRITE-UP FOR PAINT SPEC.
2. VENT ALL CONTROLS AND RELIEFS OUT BUILDING.

REVISION

REV	DATE	DRT	CHK	ENG	DESCRIPTION
0	6/27/18	BB	ER	JH	APPROVED FOR CONSTRUCTION

LEGEND

FLANGED BALL VALVE

CHECK VALVE

BALL VALVE

GLOBE VALVE

NEEDLE VALVE

WELDED PIPING

THREADED PIPING

SOCKETWELD PIPING

REDUCER

PLUG

S.S. TUBING W/ SWAGelok C.S. FITTINGS

BY OTHERS

ELECTRICAL CONDUIT

2" FIBERGLASS W/ ALUM. JACKET UNLESS NOTED OTHERWISE

VALVE TAG LEGEND

VALVE SIZE (INCHES)

VALVE CLASS

VALVE TYPE

END CONDITION

J.W. WILLIAMS, INC.

ENGINEERING AND FABRICATION

ULTRA RESOURCES
COMBINATION UNIT
50.0 MMSCF/D
PROCESS SCHEMATIC / P&ID

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ENG: JH

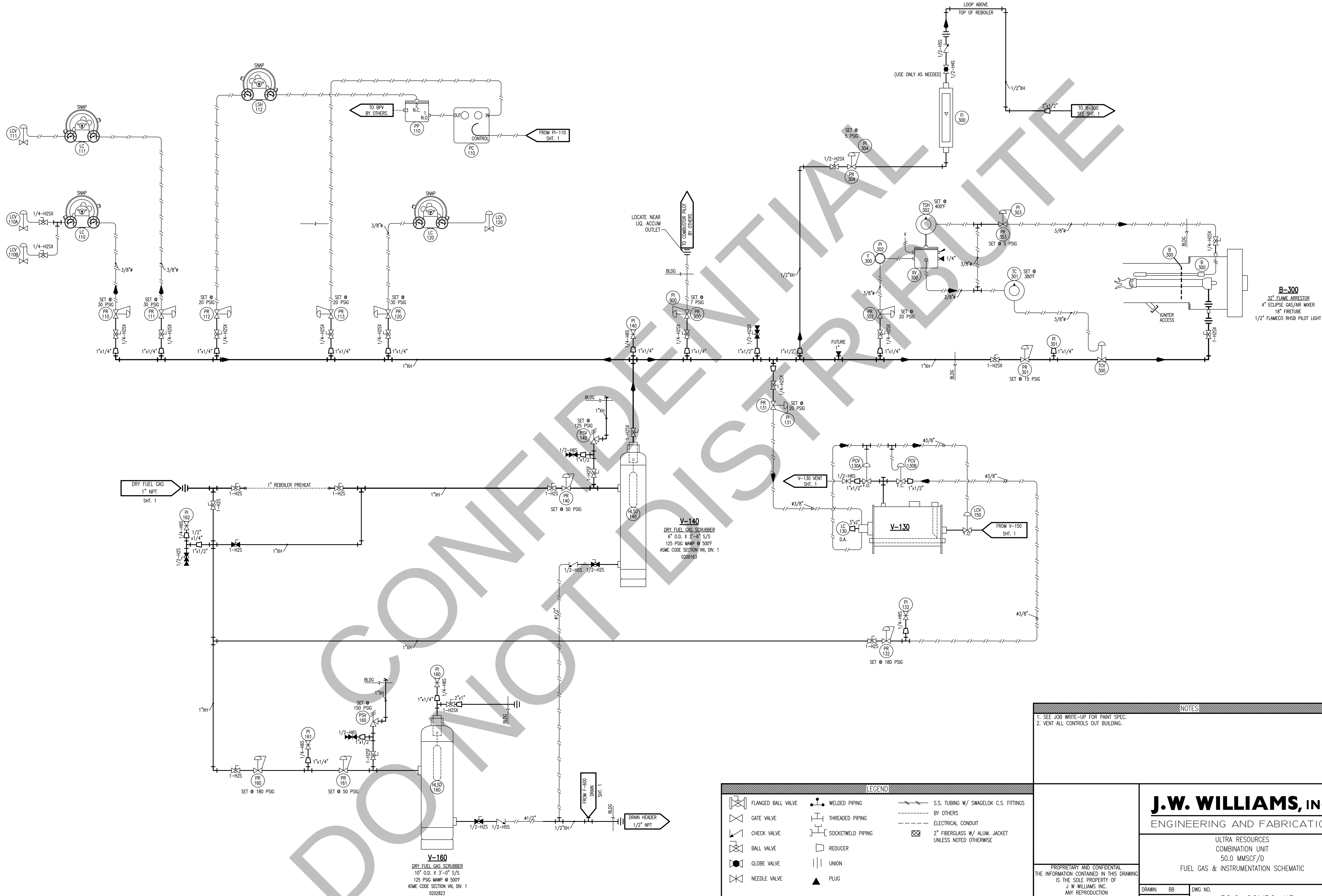
SHEET: 1 OF 6

DWG NO.

50.0-COMBO-UR

REV

0



NOTES

1. SEE JOB WRITE-UP FOR PAINT SPEC.
2. VENT ALL CONTROLS OUT BUILDING.

LEGEND

FLANGED BALL VALVE

GATE VALVE

CHECK VALVE

BALL VALVE

GLOBE VALVE

NEEDLE VALVE

WELDED PIPING

THREADED PIPING

SOCKETWELD PIPING

REDUCER

UNION

PLUG

S.S. TUBING W/ SWAGelok C.S. FITTINGS

BY OTHERS

ELECTRICAL CONDUIT

2\"/>

J.W. WILLIAMS, INC.

ENGINEERING AND FABRICATION

ULTRA RESOURCES
COMBINATION UNIT
50.0 MMSCF/D
FUEL GAS & INSTRUMENTATION SCHEMATIC

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SHEET: 2 OF 6

DWG NO.

REV

50.0-COMBO-UR

0

CONTROLS AND ACCESSORIES				
SYMBOL	TAG#	QTY.	DESCRIPTION	JDE#
B	300	1	FIRETUBE AIR PLATE, 18" X 4" BURNER, PROPIRE, ADJUSTABLE	0400424
B	300	1	PILOT ASSEMBLY, 1/2" FLAMECO PILOT W/ RHSB TIP & BRASS ORIFICE	0400075
B	300	1	BURNER ASSEMBLY, 32", SB32-1018-4A (RIGHT HAND HINGED), 1.5 MMBTU/HR	0400112
BR	110	1	BLEED RING, 3" 600# RF, 1/2" NPT TAP, CS	0203904
DPI	600	1	DIFFERENTIAL PRESSURE GAUGE, 0-50#, ORANGE RESEARCH 1201-PG-1A-2.5B	2400053
F	300	1	FILTER 1/4" KIMRAY MOD. F30 INLINE FILTER	C/W TSH-302
FE	110	1	FLOW ANALYZER, MC-III EXP DIRECT MOUNT MONITOR, NUFLO P/N9A-50179027, MODBUS RS-485, 4-20mA OUT, W/ EXT EXP PROOF RESET SWITCH INSTALLED ON RIGHT SIDE	0204578
FE	110	1	TURBINE METER, 1" X 2" EX-IN, SERIES BF, CAMERON NUFLO FLOW METER ASSEMBLY, 9A-100005115, W/ INSTALLATION HARDWARE KIT, 9A-100003555 & MAG. PICKUP, 9A-100002077	4202823
FE	600	3	SOLIDS FILTER, 3" X 18 1/4" LG, JONELL MOD. JB-318-C10	0900006
FI	300	1	ROTOMETER, 30 MSCFD, DWYER RMC#58-170308-00, NATURAL GAS SERVICE, VITON SEALS	0200164
H	501	12	FLEX HOSE, 1 1/2" 16"LG, 24C5C-24MP-24MP-16"	0202852
HLSO	140	1	SAFETY VALVE, FUEL GAS, FLAMECO, 2" NPT STEEL NIPPLE, 2 X 12 FLOAT, 1/2" ORIFICE	0200214
HLSO	160	1	SAFETY VALVE, FUEL GAS, FLAMECO, 2" NPT STEEL NIPPLE, 2 X 12 FLOAT, 1/2" ORIFICE	0200214
LC	110	1	LEVEL CONTROL, 4" CEMCO MOD. 4-CSU-RMZ-LOB, SNAP ACTING, MIZER, W/FAT O-RING	0500155
LC	111	1	LEVEL CONTROL, 4" CEMCO MOD. 4-CSU-RMZ-LOB, SNAP ACTING, MIZER, W/FAT O-RING	0500155
LC	120	1	LEVEL CONTROL, 4" CEMCO MOD. 4-CSU-RMZ-LOB, SNAP ACTING, MIZER, W/FAT O-RING	0500155
LC	130	1	LEVEL CONTROL, 2", WELLMARK 7400 SNAPTRLO ST-2TP, 2" X 10" FLOAT	0500050
LCV	110A	1	CONTROL VALVE, 3" 600# RF, KIMRAY FMT, PB 3IV (EFU)	1800625
LCV	110B	1	CONTROL VALVE, 2", KIMRAY 2150 SMT, PB 2IN IV (EFG)	1800522
LCV	111	1	CONTROL VALVE, 3" 600# RF, KIMRAY FMT, PB 3IV (EFU)	1800625
LCV	120	1	CONTROL VALVE, 3" 600# RF, KIMRAY FMT, PB 3IV (EFU)	1800625
LCV	150	1	CONTROL VALVE, 1" KIMRAY 1400 SMT PC, 3/8" IV (EAHPC), 20# SPRING	1801272
LG	120	1	LIQUID LEVEL GAGE, 1/2" NPT DANIEL 5L	0200025
LG	120	1	GAUGE COCKS, 3/4" NPT DANIEL 1S (1 PAIR)3/4" VESSEL CONNECTION 1/2" GLASS CONNECTION	0200016
LG	150	1	SIGHT GLASS, 5/8" X 50" LG, PYREX, REDLINE , HI-TEMP	0200849
LG	150	1	GAUGE COCKS, 5/8", (1 PAIR) CONBRACO 1/2" NPT CONN. MOD.#20-150	0200014
LG	300	1	SIGHT GLASS, 5/8" X 50" LG, PYREX, REDLINE , HI-TEMP	0200849
LG	300	1	GAUGE COCKS,1/2",PENBERTHY N7A (BRONZE)(PAIR)	0200010
LSH	112	1	LEVEL CONTROL, 4" CEMCO MOD. 4-CSU-RMZ-LOB, SNAP ACTING, MIZER, W/FAT O-RING	0500155
P	500A	1	GLYCOL PUMP, KIMRAY 20020 SC, (GAK-HSN)	1800077
P	500B	1	GLYCOL PUMP, KIMRAY 20020 SC, (GAK-HSN)	1800077
P	500C	1	GLYCOL PUMP, KIMRAY 20020 SC, (GAK-HSN)	1800077
P	500D	1	GLYCOL PUMP, KIMRAY 20020 SC, (GAK-HSN)	1800077
PC	110	1	PRESSURE CONTROLLER, FISHER C1P-2 W/ 1500# BOURDON TUBE, #C1-2311-51293	1000188
PCV	130A	1	CONTROL VALVE, 1" KIMRAY 1400 SMT PC, 3/8" IV (EAHPC), 20# SPRING	1801272
PCV	130B	1	CONTROL VALVE, 1", KIMRAY 1400 SMT, PO, 3/8" IV, EAH, FAIL CLOSE	1800798
PI	100	1	PRESSURE GAUGE, 4", 0-1500#, 1/2" BTIM, WIKA, #232.54, 316SS, 316 WETTED PARTS, NACE COMPLIANT	2400037
PI	110	1	PRESSURE GAUGE, 4", 0-1500#, 1/2" BTIM, WIKA, #232.54, 316SS, 316 WETTED PARTS, NACE COMPLIANT	2400037
PI	130	1	PRESSURE GAUGE, 2 1/2", 0-600#, 1/4" BTIM, WIKA, #111.10	2400017
PI	131	1	PRESSURE GAUGE, 2 1/2", 0-30#, 1/4" BTIM, WIKA, #111.10	2400007
PI	132	1	PRESSURE GAUGE, 2 1/2", 0-300#, 1/4" BTIM, WIKA, #111.10	2400016
PI	140	1	PRESSURE GAUGE, 2 1/2", 0-160#, 1/4" BTIM, WIKA, #111.10	2400013
PI	160	1	PRESSURE GAUGE, 2 1/2", 0-160#, 1/4" BTIM, WIKA, #111.10	2400013
PI	161	1	PRESSURE GAUGE, 2 1/2", 0-300#, 1/4" BTIM, WIKA, #111.10	2400016
PI	162	1	PRESSURE GAUGE, 2 1/2", 0-1500#, 1/4" BTIM, WIKA #212.53	2400084
PI	300	1	COOLING COIL, NATION IND., MOD. #SIP25-180CS	0200321
PI	300	1	PRESSURE GAUGE, 2 1/2", 0-15#, 1/4" BTIM, WIKA, #212.53	2400029
PI	301	1	PRESSURE GAUGE, 2 1/2", 0-30#, 1/4" BTIM, WIKA, #111.10	2400007
PI	302	1	PRESSURE GAUGE, 2 1/2", 0-30#, 1/4" BTIM, WIKA, #111.10	2400007
PI	303	1	PRESSURE GAUGE, 2 1/2", 0-30#, 1/4" BTIM, WIKA, #111.10	2400007
PI	304	1	PRESSURE GAUGE, 2 1/2", 0-30#, 1/4" BTIM, WIKA, #111.10	2400007
PI	600	1	PRESSURE GAUGE, 2 1/2", 0-1500#, 1/4" BTIM, WIKA #212.53	2400084
PI	900	1	PRESSURE GAUGE, 2 1/2", 0-30#, 1/4" BTIM, WIKA, #111.10	2400007
PP	110	1	PILOT, PRIORITY RELAY, KIMRAY, 4-POR, (YBA)	1801198
PR	110	1	PRESSURE REGULATOR, 1/4", FISHER 67CR-206, 0-35#	1000004
PR	111	1	PRESSURE REGULATOR, 1/4", FISHER 67CR-206, 0-35#	1000004
PR	112	1	PRESSURE REGULATOR, 1/4", FISHER 67CR-206, 0-35#	1000004
PR	113	1	PRESSURE REGULATOR, 1/4", FISHER 67CR-206, 0-35#	1000004
PR	120	1	PRESSURE REGULATOR, 1/4", FISHER 67CR-206, 0-35#	1000004
PR	131	1	PRESSURE REGULATOR, 1/4", FISHER 67CR-206, 0-35#	1000004
PR	132	1	PRESSURE REGULATOR, 1" NPT, FISHER 627H, 140-250#, 1000# BODY, 3/8" ORIFICE, NITRILE DISK	1000757
PR	140	1	PRESSURE REGULATOR, 1", FISHER 627-487, 35-80#, 1000# BODY, 3/16" ORIFICE, NITRILE DISK	1000034
PR	160	1	PRESSURE REGULATOR, 1" NPT, FISHER 627H, 140-250#, 1000# BODY, 1/4" ORIFICE, NITRILE DISK	1000756
PR	161	1	PRESSURE REGULATOR, 1", FISHER 627, 35-80#, 1000# BODY, 3/8" ORIFICE	1000081
PR	301	1	PRESSURE REGULATOR, 1", FISHER 627-485, 5-20#, 1000# BODY, 3/16" ORIFICE	1000008
PR	302	1	PRESSURE REGULATOR, 1/4", FISHER 67CR-206, 0-35#	1000004
PR	303	1	PRESSURE REGULATOR, 1/4", FISHER 67CR-206, 0-35#	1000004
PR	304	1	PRESSURE REGULATOR, 1/2", FISHER 67D-27, 5-35#	1000001
PR	900	1	PRESSURE REGULATOR, 1/4", FISHER 67CR-206, 0-35#	1000004
PSV	100	1	RELIEF VALVE, 1" X 1", SET @ 1000#, TAYLOR 8200 SERIES "E" ORIFICE	2500026
PSV	110	1	RELIEF VALVE, 3" 600# X 4" 150#, SET @ 950 PSIG, MERCER, "K" ORIFICE P/N 91-85K11P96C1	2500613
PSV	120	1	RELIEF VALVE, 1" X 1", SET @ 1000#, TAYLOR 8200 SERIES "E" ORIFICE	2500026
PSV	130	1	RELIEF VALVE, 1" X 1", SET @ 500#, TAYLOR 8200 SERIES	2500555
PSV	140	1	RELIEF VALVE, 1" X 1", SET @ 125#, TAYLOR 8200 SERIES, "E" ORIFICE	2500025
PSV	160	1	RELIEF VALVE, 1" X 1", SET @ 150#, TAYLOR 8200 SERIES, "E" ORIFICE	2500071
PSV	300	1	RELIEF VALVE, 2" X 2", SET @ 5# (80oz), TAYLOR 8400 SERIES	2500091
PSV	420	1	RELIEF VALVE, 1" X 1", SET @ 1000#, TAYLOR 8200 SERIES "E" ORIFICE	2500026

PSV	600	1	RELIEF VALVE, 1" X 1", SET @ 1500#, TAYLOR 8200 SERIES "E" ORIFICE	2500066
SH	110	1	DISC HOLDER, 1" STD UL (UNION), 2000# @ 72", LAMOT	2600017
SH	110	1	RUPTURE DISC, 1" STD UL (UNION), 1100# @ 72", 316 S.S. LAMOT	2600042
STR	500	4	Y-STRAINER, 2", 250#, KECKLEY, CAST IRON 1 1/4" CLEANOUT	0200300
TC	301	1	TEMPERATURE CONTROLLER, KIMRAY T12, (HAA)	1800085
TCV	300	1	CONTROL VALVE, 1", KIMRAY 112-SMT-DAB, (EUA3)	1801039
TI	100	1	TEMP. INDICATOR, 3" DIAL, 0-250°F, 6" STEM, TREND THERMOMETER	3300011
TI	110	1	TEMP. INDICATOR, 3" DIAL, 0-250°F, 6" STEM, TREND THERMOMETER	3300011
TI	150	1	TEMP. INDICATOR, 3" DIAL, 0-250°F, 6" STEM, TREND THERMOMETER	3300011
TI	300	1	TEMP. INDICATOR, 3" DIAL, 50-550°F, 6" STEM, TREND THERMOMETER	3300012
TI	500	1	TEMP. INDICATOR, 3" DIAL, 0-250°F, 6" STEM, TREND THERMOMETER	3300011
TI	501	1	TEMP. INDICATOR, 3" DIAL, 0-250°F, 6" STEM, TREND THERMOMETER	3300011
TI	510	1	TEMP. INDICATOR, 3" DIAL, 50-550°F, 6" STEM, TREND THERMOMETER	3300012
TSH	302	1	TEMPERATURE CONTROLLER, KIMRAY T12 DAM, (HAT)	1800098
TW	100	1	THERMOWELL, 3/4" X 1/2" X U=4.5", (260 BORE), C.S.	3300089
TW	110	1	THERMOWELL, 3/4" X 1/2" X U=4.5", (260 BORE), C.S.	3300089
TW	150	1	THERMOWELL, 3/4" X 1/2" X U=4.5", (260 BORE), C.S.	3300089
TW	300	1	THERMOWELL, 3/4" X 1/2" X U=4.5", (260 BORE), C.S.	3300089
TW	301	1	THERMOWELL, 1" X 1/2" X 12", KIMRAY SS12, (HCC)	1800112
TW	302	1	THERMOWELL, 1" X 1/2" X 12", KIMRAY SS12, (HCC)	1800112
TW	500	1	THERMOWELL, 3/4" X 1/2" X U=4.5", (260 BORE), C.S.	3300089
TW	501	1	THERMOWELL, 3/4" X 1/2" X U=4.5", (260 BORE), C.S.	3300089
TW	510	1	THERMOWELL, 3/4" X 1/2" X U=4.5", (260 BORE), C.S.	3300089
XV	300	1	MANUAL RESET PILOT, 1/4", KIMRAY, 3PGM	C/W TSH-300

SPECIALTY ITEMS			
QTY	U of M	SERVICE	CONTROL ID
1	EACH	OH CONDENSER	GASKET, 8", 150# RF, FLEX
8	EACH	OH CONDENSER	STUD, 3/4" X 4 1/2" LG, W/NUTS, SA-193-B7, SA-194-2H
2	EACH	REBOILER FIRETUBE	GASKET, 18", FR-1018, 21 1/2" OD X 17 3/4" ID X 1/8" THK, (20) 9/16" HOLES ON A 20" B.C.
1	EACH	STILL COLUMN	GASKET, 28 1/2", FR-1026, N.A.
2	EACH	INLET/OUTLET (SHIP LOOSE)	FLANGE, 8", 600# RFWN, STD BORE, SA-105
3	EACH	INLET/OUTLET (SHIP LOOSE)	GASKET, 8", 600# RF, FLEX
36	EACH	INLET/OUTLET (SHIP LOOSE)	STUD, 1 1/8" X 8" LG, W/NUTS, SA-193-B7, SA-194-2H
1	EACH	UNIT	NAMEPLATE, HOUSE, CASPER STD

VALVE LIST			
TAG#	QTY.	DESCRIPTION	JDE#
1 1/2-H2S	23	BALL VALVE, 1 1/2" 1500# C.S.	3500032
1-H2SF	7	BALL VALVE, 1" 1500#, FULL PORT, BALON 1F-S62-SE	3500252
1-H2S	16	BALL VALVE, 1", 2000#, C.S.	3500026
1-H2SX	6	BALL VALVE, 1", 600#, BRONZE	3500024
1/2-H2SXX	3	BALL VALVE, 1/2", 2000#, CS	3500010
1/2-H2S	12	BALL VALVE, 1/2", 3000#, BALON LM-05361, C.S.	3500011
1/2-H2SX	2	BALL VALVE, 1/2", 600#, BRONZE	3500008
1/4-H2SX	12	BALL VALVE, 1/4", 600# BRONZE	3500001
2-A2R	1	BALL VALVE, 2" 150# RF, RED. PORT, BALON 2R-F13-RF, C.S.	3500429
2-H2S	10	BALL VALVE, 2" 1500# C.S.	3500039
2-D2R	1	BALL VALVE, 2" 600# RF, RED PORT, BALON 2R-F63-RF, C.S.	3500113
2-H2SF	1	BALL VALVE, 2" FULL PORT, MILWAUKEE 30CSDF-02	3500126
3-D2RF	9	BALL VALVE, 3" 600# RF, FULL PORT, BALON 3F-F6X-RF, CS	3500203
8-D2R	1	BALL VALVE, 8" 600# RF, BALON REG. PORT, 8RF-63-RF, C.S.	3500811
1 1/2-H5S	1	CHECK VALVE, 1 1/2" 1440#, WHEATLEY, FLAPPER CHECK	3500181
1-H5S	4	CHECK VALVE, 1" SCRD, 1000#, DUCTILE IRON, BALON MOD. 1F-D42-SE, SWING CHECK	3500665
1/2-H5S	3	CHECK VALVE, 1/2", 800#, BALL CHECK, BONNEY FORGE, HL-51-T	3501537
2-H5S	2	CHECK VALVE, 2" NPT, 2500#, SWING, BALON 2F-D93-SE, C.S.	3501359
3-D5R	3	CHECK VALVE, 3" 600#, BALON 3L-600, C.S.	3500200
1 1/2-H4S	2	GLOBE VALVE, 1 1/2" 800#, BONNEY FORGE, HL-31-T	3500182
1/2-H4S	1	GLOBE VALVE, 1/2" 1500#, BONNEY FORGE	3500297
1/2-H6S	12	NEEDLE VALVE, 1/2" M X F, 6000#, KF 25-125	3500093
1/4-H6S	11	NEEDLE VALVE, 1/4" M X F, 6000#, KF 25-145	3500088

COMPONENT LIST				
QTY	TAG #	DESCRIPTION	ITEM NUMBER	WT
1	E-400	LEAN/RICH GLYCOL EXCHANGER	12-17-HP-50/150-UR	4864
1	E-410	GAS/GLYCOL EXCHANGER	14-120-GGE-1000-UR50	2696
1	E-420	OVERHEAD VAPOR CONDENSER	10-96-BEN-1440/50-UR	977
1	F-600	GLYCOL SOLIDS FILTER	8-2.2-GSF-1500	194
4	P-500A/B/C/D	GLYCOL PUMP	SEE CONTROLS LIST (520LBS PER)	2080
1	R-300	GLYCOL REBOILER	1.0MM-GR-48-20-UR	8885
1	V-100	GLYCOL ABSORBER	42ID-24-GC-1000-UR	21662
1	V-110	3 PHASE HORIZONTAL SEPARATOR	60-12-H3PH-1000-UR	20629
1	V-120	VERTICAL INLET SEPARATOR	42-5-V2PH-1000-UR	5924
1	V-130	BLOWCASE PUMP	10-2-SCP-500	224
1	V-140	FUEL GAS SCRUBBER	0200163	45
1	V-150	LIQUID ACCUMULATOR	12-4-LA-14-10STD	241
1	V-160	ALT. FUEL GAS SCRUBBER	0202823	65
1		STILL COLUMN	20-10-SC-WG	1460
1		BUILDING	50.0-COMBO-UR-BLDG	6562
1		SKID	50.0-COMBO-UR-SKID	11268
1		WELDED PIPE SPOOLS	50.0-COMBO-UR-SP	1200
1		THREADED PIPING	50.0-COMBO-UR-PF	4000
1		CONTROLS & ACCESSORIES		3000
4		PUMP SCOOTER	M-KIMRAY SCOOTER	321
ASSEMBLED TOTAL WEIGHT			96297	
SHIP LOOSE WEIGHTS				
		GLYCOL ABSORBER		21662
		GAS/GLYCOL EXCHANGER		2696
		STILL COLUMN	20-10-SC-WG	1460
		REBOILER STACK		600

NAMEPL. DATA	
DESCRIPTION [COMBO GAS DEHY/PRODUCTION UNIT]	J/W/ASSY #
CAPACITY [50.0 MMSCF/D]	
CUSTOMER CODE #	
MAWP [1000] PSIG AT [150] °F	
J.W. WILLIAMS, INC.	CASPER, WYOMING WALLER, TEXAS
TEST PRESSURE [1300] PSIG	MFG DATE [20XX]
ULTRA RESOURCES	
50.0-COMBO-UR	

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J.W. WILLIAMS, INC.

ENGINEERING AND FABRICATION

ULTRA RESOURCES
COMBINATION UNIT
50.0 MMSCF/D
CONTROLS & ACCESSORIES

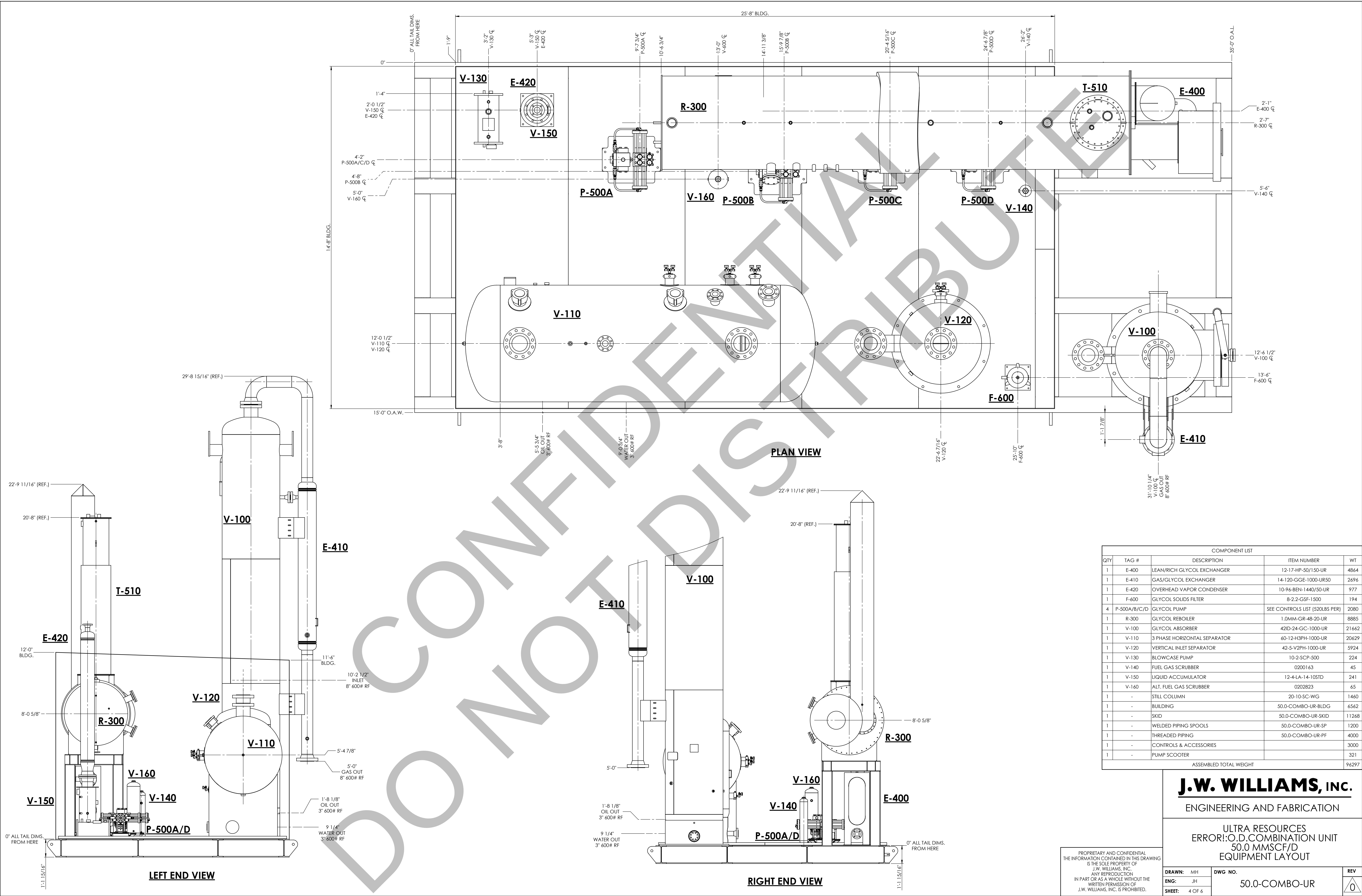
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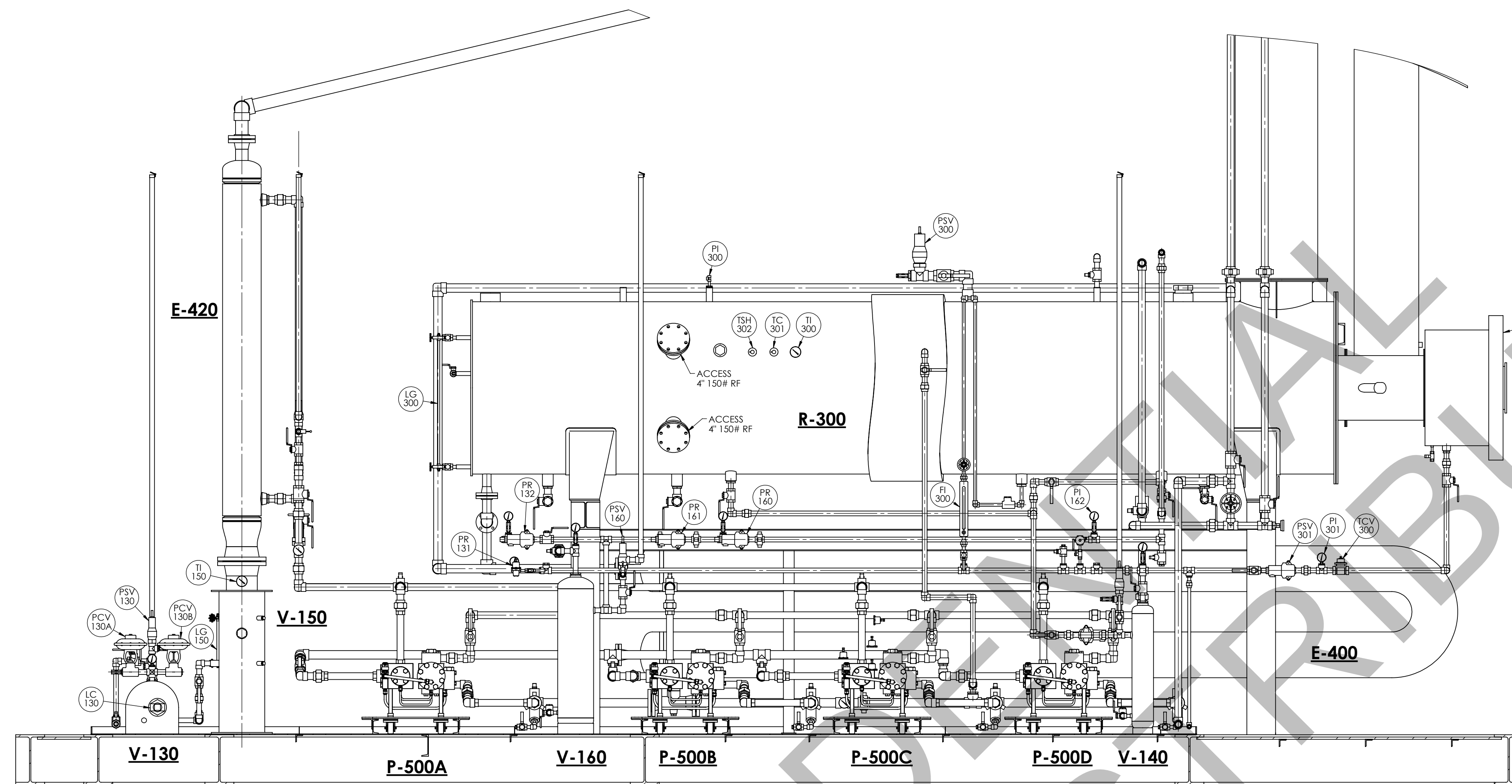
ENG: JH

SHEET: 3 OF 6

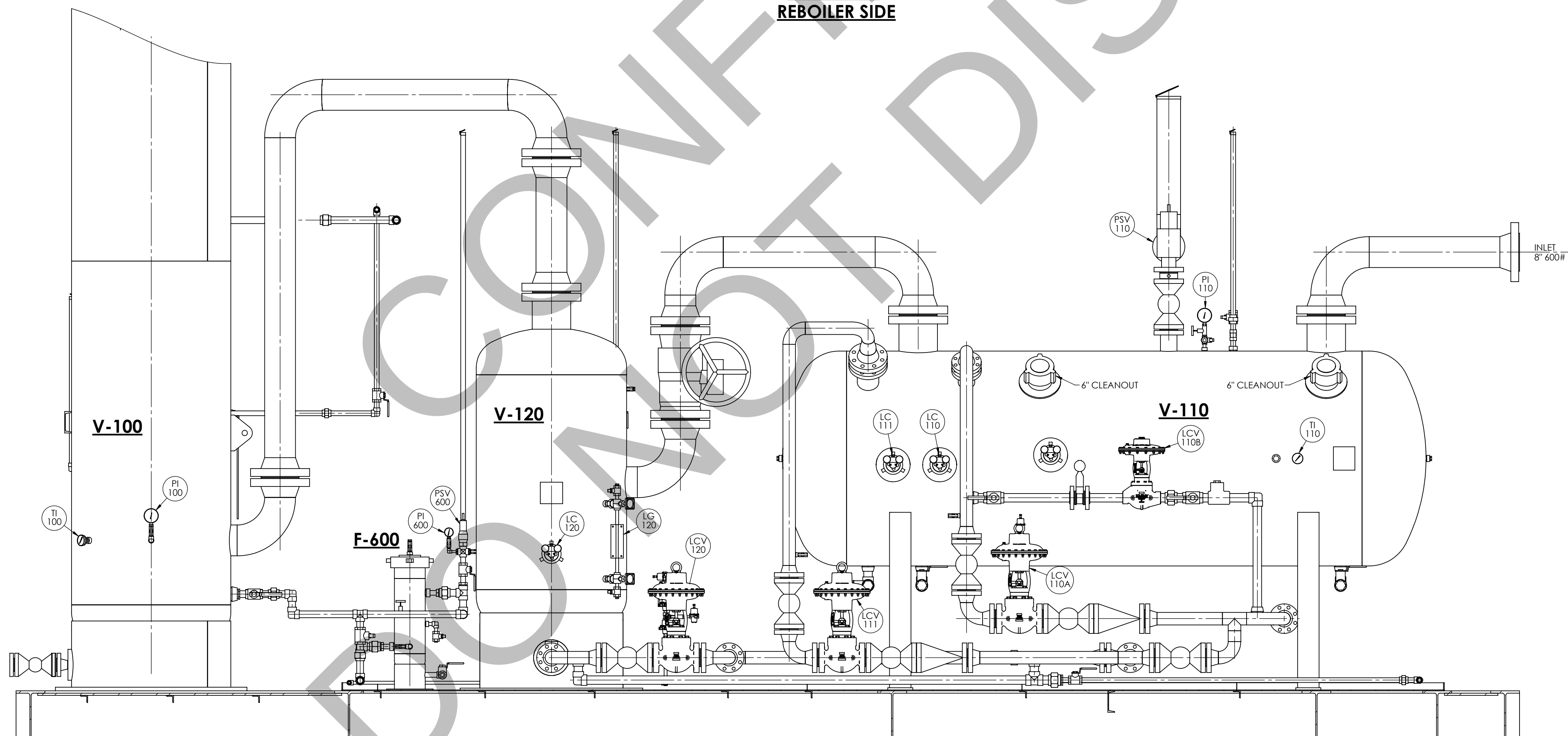
DWG NO.
50.0-COMBO-UR

REV
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**ELEVATION
REBOILER SIDE**



**ELEVATION
SEPARATOR SIDE**

J.W. WILLIAMS, INC.

ENGINEERING AND FABRICATION

ULTRA RESOURCES
ERROR! : O.D. COMBINATION UNIT
50.0 MMSCF/D
EQUIPMENT LAYOUT

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DRAWN: MH
ENG: JH
SHEET: 6 OF 6

DWG NO.
50.0-COMBO-UR

REV
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