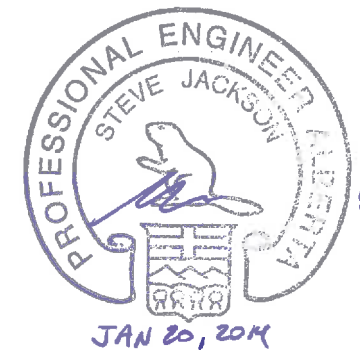
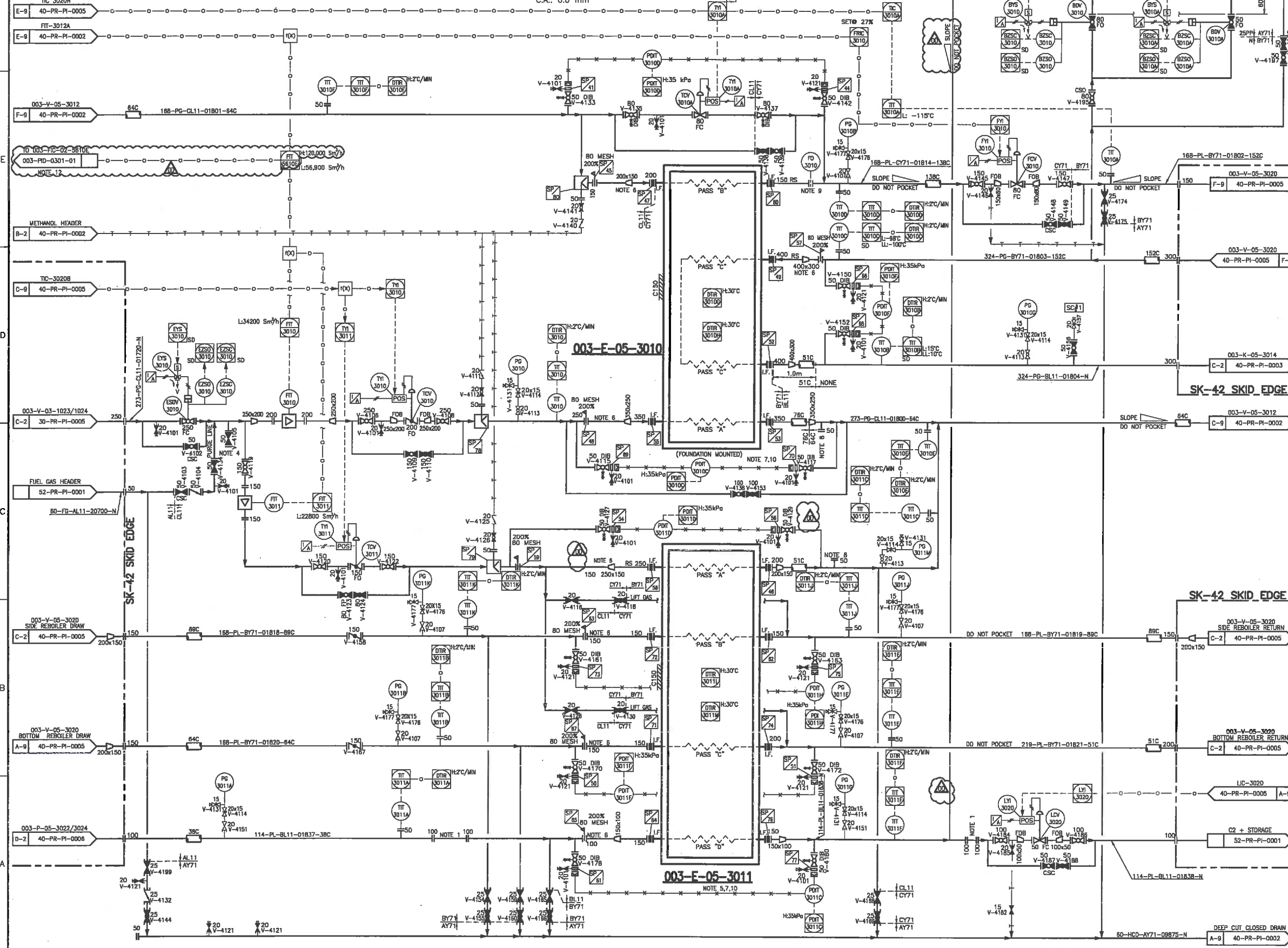


PRINTED: Monday, January 20, 2014 8:16:56 AM DWG NAME: H:\PROJECTS\New_NOS\Design Drafting\General\PRV\PRV-40-PR-PI-0001 REV 00.dwg
 UPLOADED: Friday, December 06, 2013 3:58:48 PM BY: Vadim

003-E-05-3010
INLET/RESIDUE GAS EXCHANGER
 MANUFACTURER: KOBE STEEL LTD.
 SIZE: 1200mm (W) x 4550mm (L) x 1232mm (H)
 DUTY: 5744 kW
 DESIGN: PASS A: 7550 kPag @ 65/-128°C, DUTY: 2826 kW
 PASS B: 7550 kPag @ 65/-128°C, DUTY: 2933 kW
 PASS C: 3275 kPag @ 65/-128°C, DUTY: 5759 kW
 MATERIAL: ALUMINUM
 C.A.: 0.0 mm

003-E-05-3011
DEMETHANIZER REBOILER
 MANUFACTURER: KOBE STEEL LTD.
 SIZE: 500mm (W) x 2940mm (L) x 580mm (H)
 DUTY: 2180 kW
 DESIGN: PASS A: 7550 kPag @ 65/-128°C, DUTY: 2204 kW
 PASS B: 3275 kPag @ 65/-128°C, DUTY: 683.7 kW
 PASS C: 3275 kPag @ 65/-128°C, DUTY: 1027 kW
 PASS D: 4138 kPag @ 65/-45°C, DUTY: 492.7 kW
 MATERIAL: ALUMINUM
 C.A.: 0.0 mm

- GENERAL NOTES:**
1. REMOVABLE SPOOL PROVIDED FOR ADDITION OF FUTURE VALVE AND CONNECTION REQUIRED FOR ETHANE REJECTION OPERATION.
 2. DELETED.
 3. ALL INSTRUMENT TAG NUMBERS SHALL FOLLOW ITS ASSOCIATED EQUIPMENT TAG NUMBERS, UNLESS OTHERWISE INDICATED (EX. PG-1010 ON EQUIPMENT 093-V-03-1010, FULL INSTRUMENT TAG NUMBER SHALL BE 003-PG-03-1010).
 4. PURGE CONNECTION.
 5. DEMETHANIZER REBOILER IS NOT OPERATIONAL DURING ETHANE REJECTION OPERATION.
 6. REMOVABLE PIPE SPOOL.
 7. BRAZED ALUMINUM HEAT EXCHANGERS ARE A MERCURY TOLERANT DESIGN.
 8. SPARE CONNECTION PROVIDED FOR FUTURE ADDITION OF NITROGEN BACK PUFFING SYSTEM ON PASS A OF INLET/RESIDUE GAS EXCHANGER AND DEMETHANIZER REBOILER.
 9. FLOW ORIFICE TO PROVIDE NECESSARY PRESSURE DROP REQUIRED FOR TCV-3010A BYPASS OPERATION. ORIFICE SIZED FOR 3 PSI PRESSURE DROP IN C2 RECOVERY OPERATION WITH 25% FLOW THROUGH BYPASS.
 10. ALL STRUCTURAL SUPPORT CONNECTIONS ON COLD BOXES TO INCLUDE MICARTA INSULATION AND ISOLATION KITS.
 11. ALL INSTRUMENT SYMBOLS ON THIS PID TO BE PREFIXED BY 05.
 12. SIGNAL USED FOR CONTROLLING FLOW IN RECYCLE LINE FROM DISCHARGE OF SALES GAS COMPRESSION TO UPSTREAM OF MOLE SIEVE UNIT.



NO.	REVISION	DATE	BY
OC	REVISED AS MARKED	DEC.06/13	VV
OC	REVISED AS MARKED	NOV.12/13	MFF
OB	REVISED AS MARKED	OCT.09/13	SSE
OA	REVISED AS MARKED	AUG.30/13	VV
D	RELEASED FOR FABRICATION	APR.5/13	MFF

PROJECT NAME:
FERRIER CENTRAL PROCESSING FACILITY

CLIENT:
DEVON CANADA c/o WORLEY PARSONS

DOCUMENT NAME:
COLD BOX HEAT EXCHANGER PIPING AND INSTRUMENTATION DIAGRAM

THERMO DESIGN ENGINEERING LTD.
 OIL & GAS PRODUCTION EQUIPMENT DESIGN
 DESIGN, CONSTRUCTION, INSTALLATION, COMMISSIONING, MAINTENANCE
 4000 100th Street, Edmonton, Alberta, Canada
 Alberta Permit Number: P2800

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TDE Job Number:
12-118

DOCUMENT NUMBER:
DFR-40-PR-PI-0001