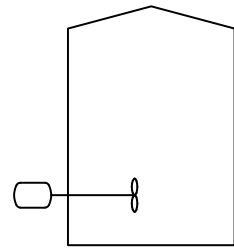
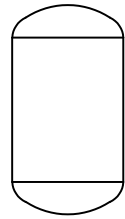


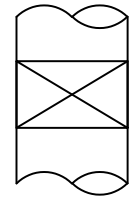
EQUIPMENT



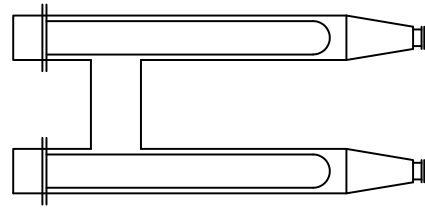
TANK
w/AGITATOR



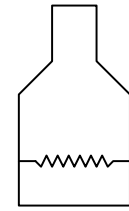
DRUM



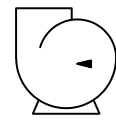
PACKED REACTOR



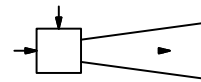
ELECTRIC HEATER



FIRED HEATER



BLOWER



EJECTOR



MIXER



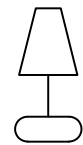
PULSATION
DAMPER



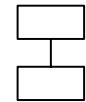
DEMISTER



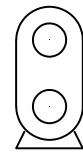
CENTRIFUGAL



TURBINE



RECIPROCATING

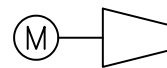


ROTARY



METERING

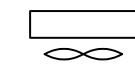
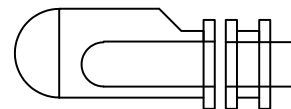
PUMPS



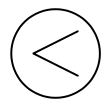
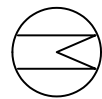
COMPRESSORS



REBOILER



AIR COOLER



SHELL/TUBE
EXCHANGERS

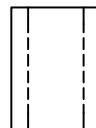
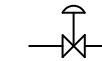
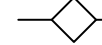


PLATE & FRAME
EXCHANGER

FLows AND INSTRUMENTATION



CONTROL VALVE



STREAM #



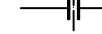
INDICATOR



LEVEL GAUGE



ORIFICE PLATE
FX CAN BE EITHER OF FOLLOWING:
FE = FLOW ELEMENT
FO = RESTRICTION ORIFICE
FI = LOCAL FLOW INDICATOR



SAMPLE CONNECTION



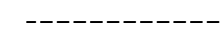
LOGIC BLOC



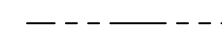
FILTER



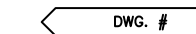
PROCESS LINE



INSTRUMENTATION LINE



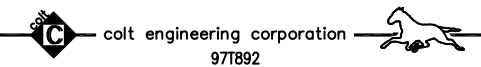
FUTURE EXPANSION/BATTERY LIMIT



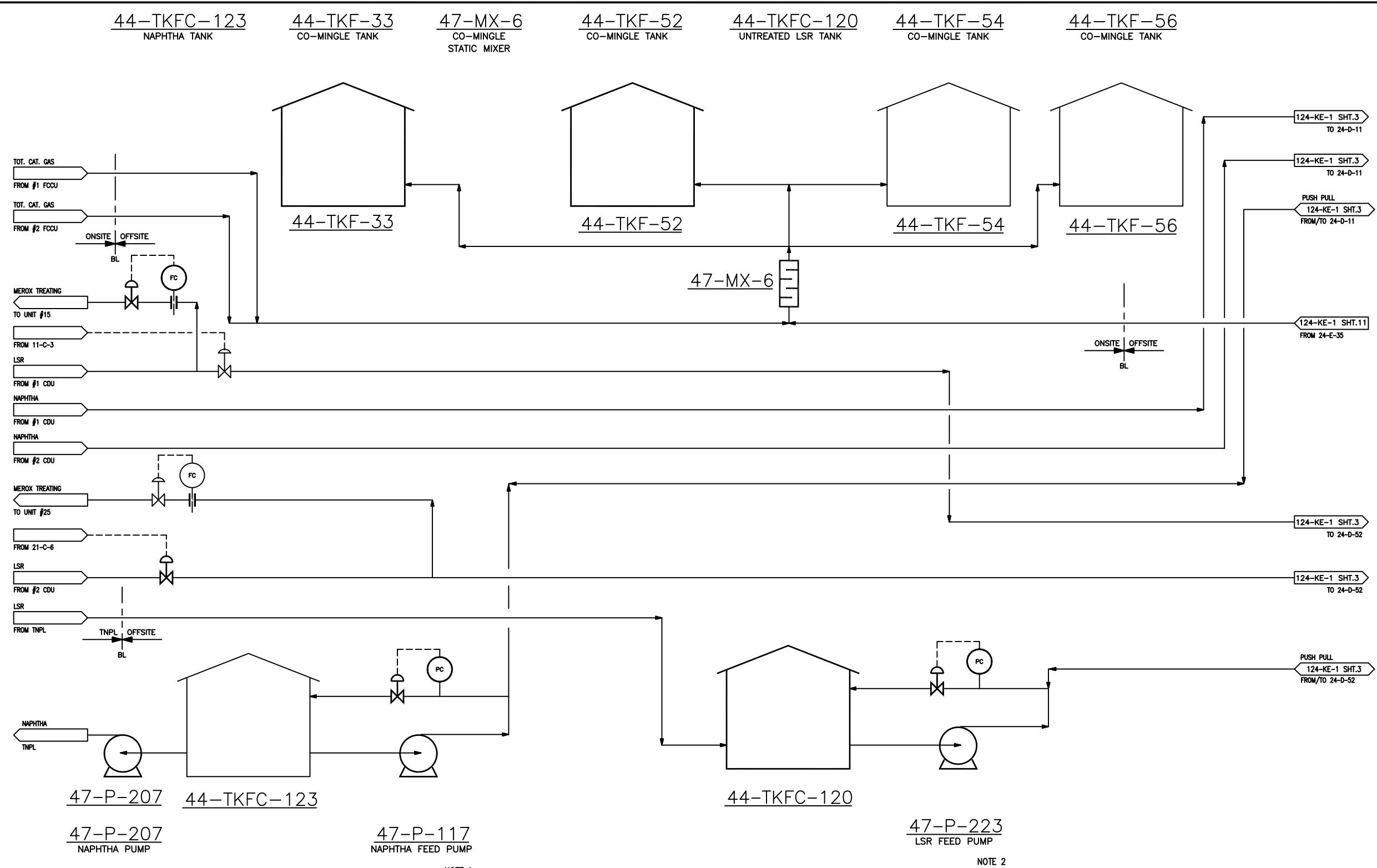
CONTINUED ON ANOTHER DWG

GENERAL NOTES

2	DEC 99	RFG PROJECT ADDED - ENG FILE # 15001345 NOW 11 SHEETS AND DRAWINGS RESEQUENCED.	A.V.	H.L.	B.B.
1	MARCH 1974	PROCON DRAWING SHEET 1,2 & 3.			
0					
REVISION	DATE	DESCRIPTION	DRAWN BY	CHEK'D BY	APP'D BY



TITLE		DEPARTMENT	
CENTRAL REGION RFG PROJECT OAKVILLE PROCESS FLOW DIAGRAM LEGENDS AND SYMBOLS #2 CRU		02	
AREA NO.		CLASS NO.	
15001345		15001345	
DATE		SCALE	
		NONE	
DRAWN BY	CHECKED CH. DRAFT	SECTION NO.	DWG. NO.
A.V.	CHECKED ENGINEER	APPROVED BY	124-KE-1 SHT. 1 OF 11
			2



GENERAL NOTES

- FOR GENERAL NOTES AND LEGEND SEE DWG. 124-KE-1 SHT. 1 OF 10.
- NOTES:**
- NORMALLY NO NET FORWARD FLOW TO NAPHTHA FEED DRUM
 - NORMALLY NET FORWARD FLOW TO LSR FEED DRUM IS 47 USGPM.

124-KE-1 SHT.3	TO 24-D-11
124-KE-1 SHT.3	TO 24-D-11
PUSH PULL	124-KE-1 SHT.3 FROM/TO 24-D-11
124-KE-1 SHT.11	FROM 24-E-35
124-KE-1 SHT.3	TO 24-D-52
124-KE-1 SHT.3	TO 24-D-52
PUSH PULL	124-KE-1 SHT.3 FROM/TO 24-D-52

NOTE 1

NOTE 2

2	DEC 99	RFQ PROJECT ADDED - ENG FILE # 15001345 NOW 11 SHEETS AND DRAWINGS RESEQUENCED.	A.V.	H.L.	B.B.
1	MARCH 1974	PROCON DRAWING SHEET 1,2 & 3.			
0					
REVISION	DATE	DESCRIPTION	DRAWN BY	CHK'D BY	APP'D BY

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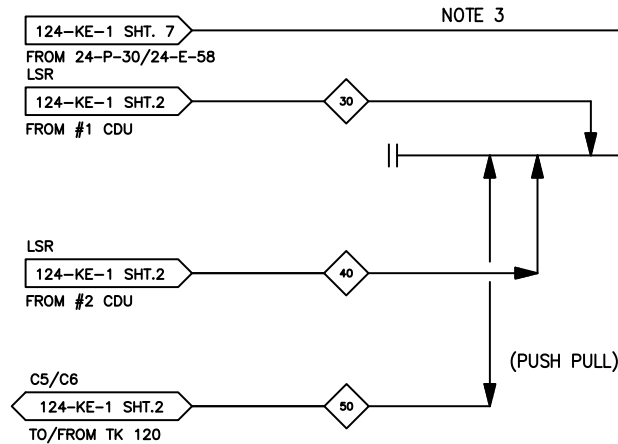
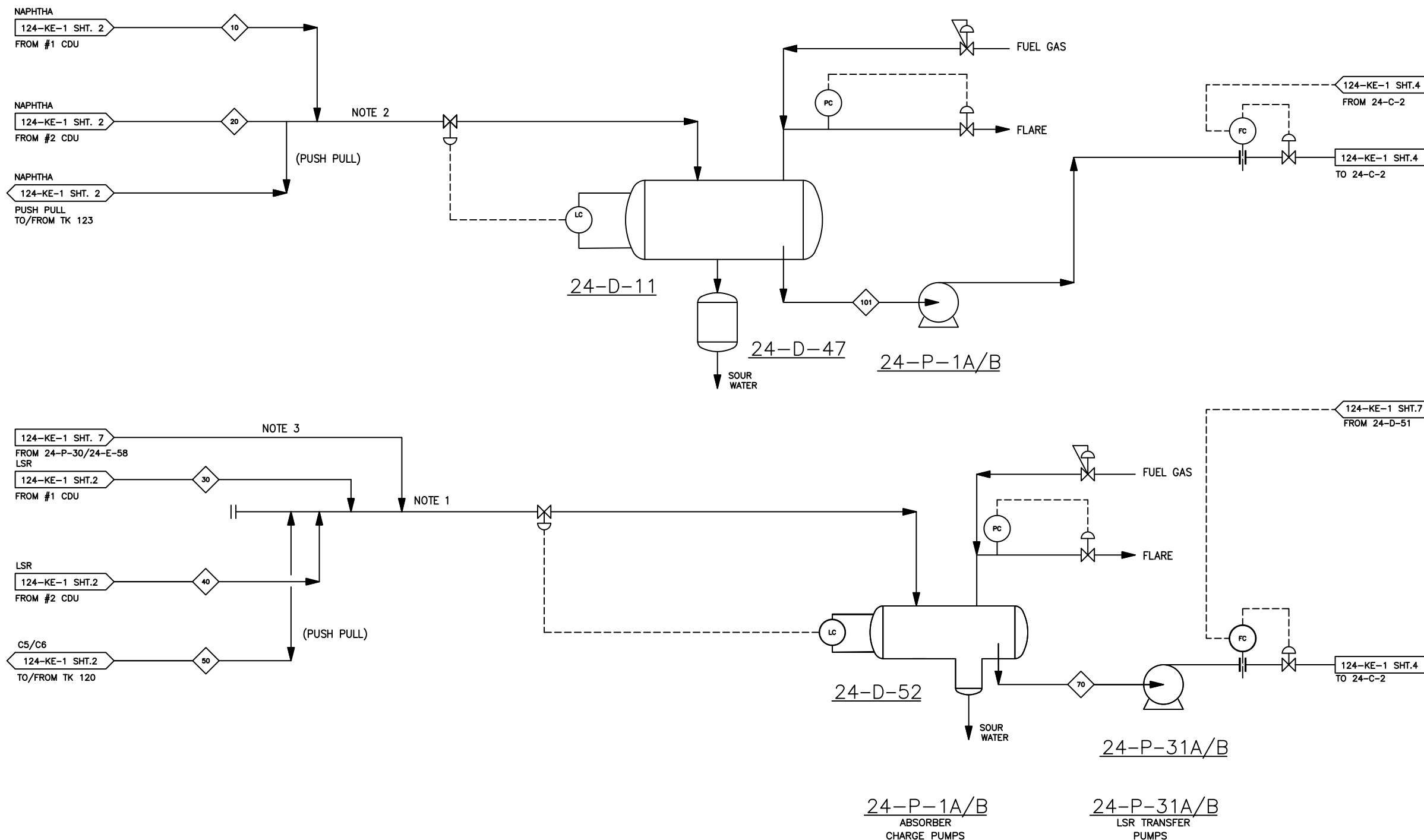
TITLE	DEPARTMENT
CENTRAL REGION RFG PROJECT OAKVILLE PROCESS FLOW DIAGRAM #2 CRU - OFFSITES	02
AREA NO.	CLASS NO.
15001345	
PROJ. NO.	DATE
SCALE	NONE

DRAWN BY	CHECKED CH. DRAFT	SECTION NO.	DWG. NO.	REV.
A.V.	CHECKED ENGINEER	APPROVED BY	124-KE-1 SHT. 2 OF 11	2

24-D-11
NAPHTHA FEED
SURGE DRUM

24-D-47
WATER COLLECTION
POT

24-D-52
LSR FEED
SURGE DRUM



GENERAL NOTES

1. FOR GENERAL NOTES AND LEGEND SEE DWG. 124-KE-1 SHT. 1 OF 10.

NOTES:

- LSR FROM #1 CDU IS PREFERRED FEED FOLLOWED BY #2 LSR THEN TANK 120 VIA PUSH PULL LINE.
- NAPHTHA FEED**
- NAPHTHA FROM #1 CDU IS PREFERRED FEED.
- THE BALANCE FLOW IS FED FROM #2 CDU UNDER BACK-PRESSURE CONTROL TO STORAGE.
- NORMALLY NO FLOW.

CASE 1B 330 DEG F #1 NAPHTHA

STREAM NUMBER	10	20	30	40	50	70	101
STREAM ID	1 CDU NAPHTHA	2 CDU NAPHTHA	1 CDU LSR	2 CDU LSR	C5/C6 FROM TANK 120	TOTAL LSR	TOTAL NAPHTHA
PHASE	L	L	L	L	L	L	L
TEMPERATURE °F	140	110	105	100	100	100	128
PRESSURE psig	90	90	90	90	90	30	30
BBL/day	4900	3610	2600	1620	1600	5820	8510
lb/hr	52643	39407	24912	15424	16300	56636	92049
MW	100.18	105.87	78.14	76.76	84.00	79.35	102.54
ENTHALPY MMBTU/hr	2.08	0.94	0.62	0.34	0.33	1.24	3.02
usgpm @ T	150.2	108.4	78.6	48.8	48.0	175.5	258.7
ft ³ /sec @ T & P	---	---	---	---	---	---	---

1	NOV 99	AS BUILT ENG. FILE #15001345 REV 0 SHT 8 SPLIT AND DRAWING SHEETS RESEQUENCED.	A.V.	H.L.	B.B.
0	NOV 98	ISSUED FOR CONSTRUCTION	T.L.	H.L.	B.B.
REVISION	DATE	DESCRIPTION	DRAWN BY	CHK'D BY	APP'D BY

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TITLE	DEPARTMENT
CENTRAL REGION RFG PROJECT OAKVILLE PROCESS FLOW DIAGRAM #2 CRU - HYDROBON	AREA NO. 02
CLASS NO.	PROJ. NO. 15001345
DATE	AUG. 1997
SCALE	NONE
DRAWN BY	CHECKED CH. DRAFT
A.V.	CHECKED ENGINEER
SECTION NO.	APPROVED BY
DWG. NO. 124-KE-1	REV. 1
SHT. 3 OF 11	

24-C-2
ABSORBER COLUMN

24-E-1 A-H
HYDROBON COMBINED FEED
EXCHANGERS

24-FX-9A/B
FEED PREFILTER

24-D-54
FEED COALESCER

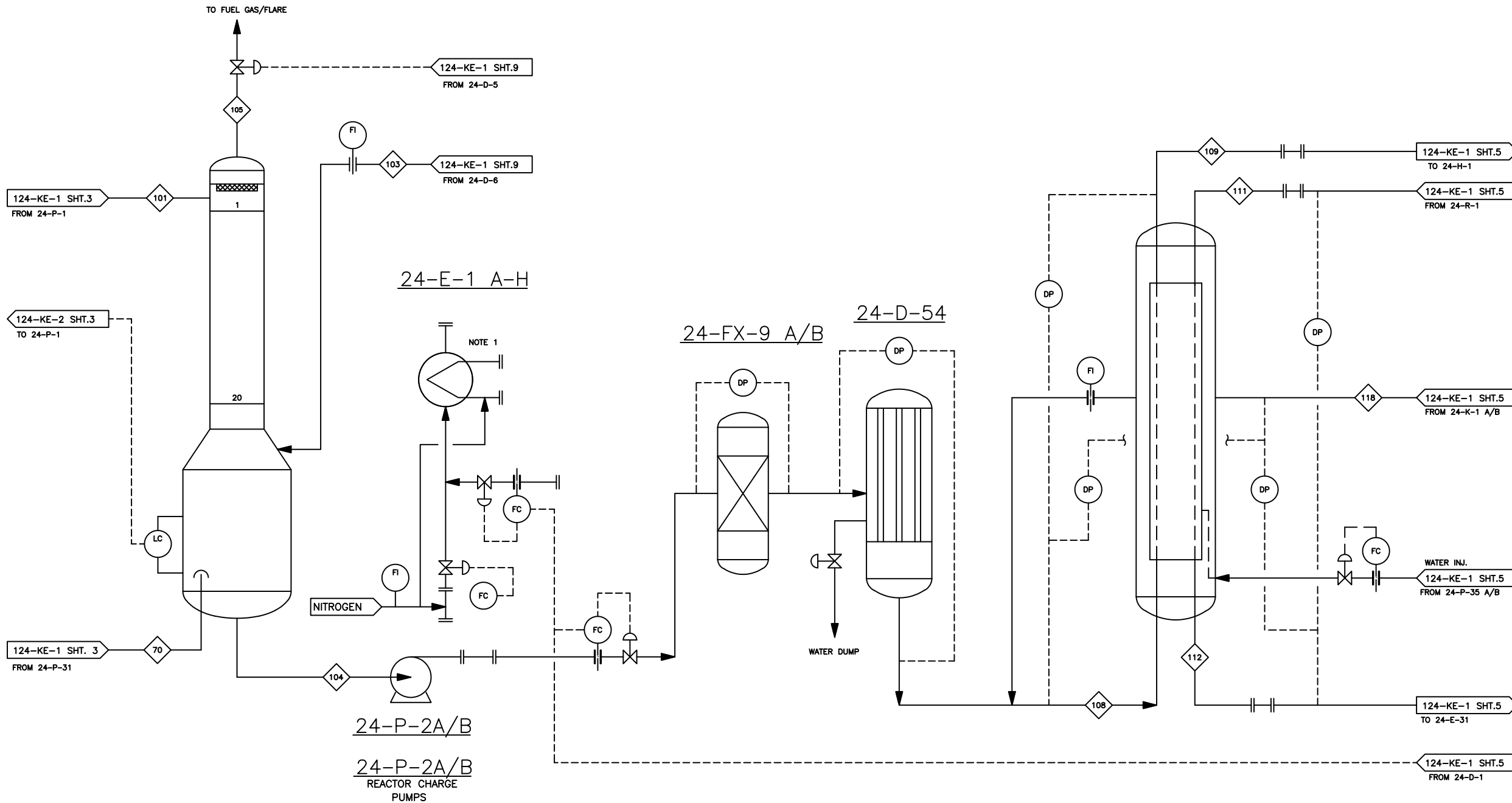
24-E-55
HYDROBON FEED/EFFLUENT
EXCHANGER (PACKINOX)

GENERAL NOTES

- FOR GENERAL NOTES AND LEGEND SEE DWG. 124-KE-1 SHT. 1 OF 10.

NOTES:

- 24-E-1 A TO H IN IDLE MODE WITH N₂ PURGE.



CASE 1B 330 DEG F #1 NAPHTHA

STREAM NUMBER	70	101	103	104	105	108	109	111	112
STREAM ID	TOTAL LSR	TOTAL NAPHTHA	H2 TO 24-C-2	UNIT CHARGE	24-C-2 OFF GAS	24-E-55 INLET	24-H-1 INLET	24-R-1 OUTLET	24-E-55 OUTLET
PHASE	L	L	V	L	V	2	V	V	2
TEMPERATURE	100	128	100	120	129	124	601	661	211
PRESSURE	30	30	235	220	215	422	411	367	357
BBL/day	5820	8510	---	14616	---	---	---	---	---
lb/hr	56636	92049	6104	150556	4232	154797	154797	154797	161897
MW	79.35	102.54	8.62	90.46	6.46	64.22	64.22	64.24	52.17
ENTHALPY	1.29	3.02	---	4.38	---	---	---	---	---
usgpm @ T	175.5	258.7	---	443.4	---	---	---	---	---
ft ³ /sec @ T & P	---	---	4.70	---	5.01	---	14.96	19.36	---

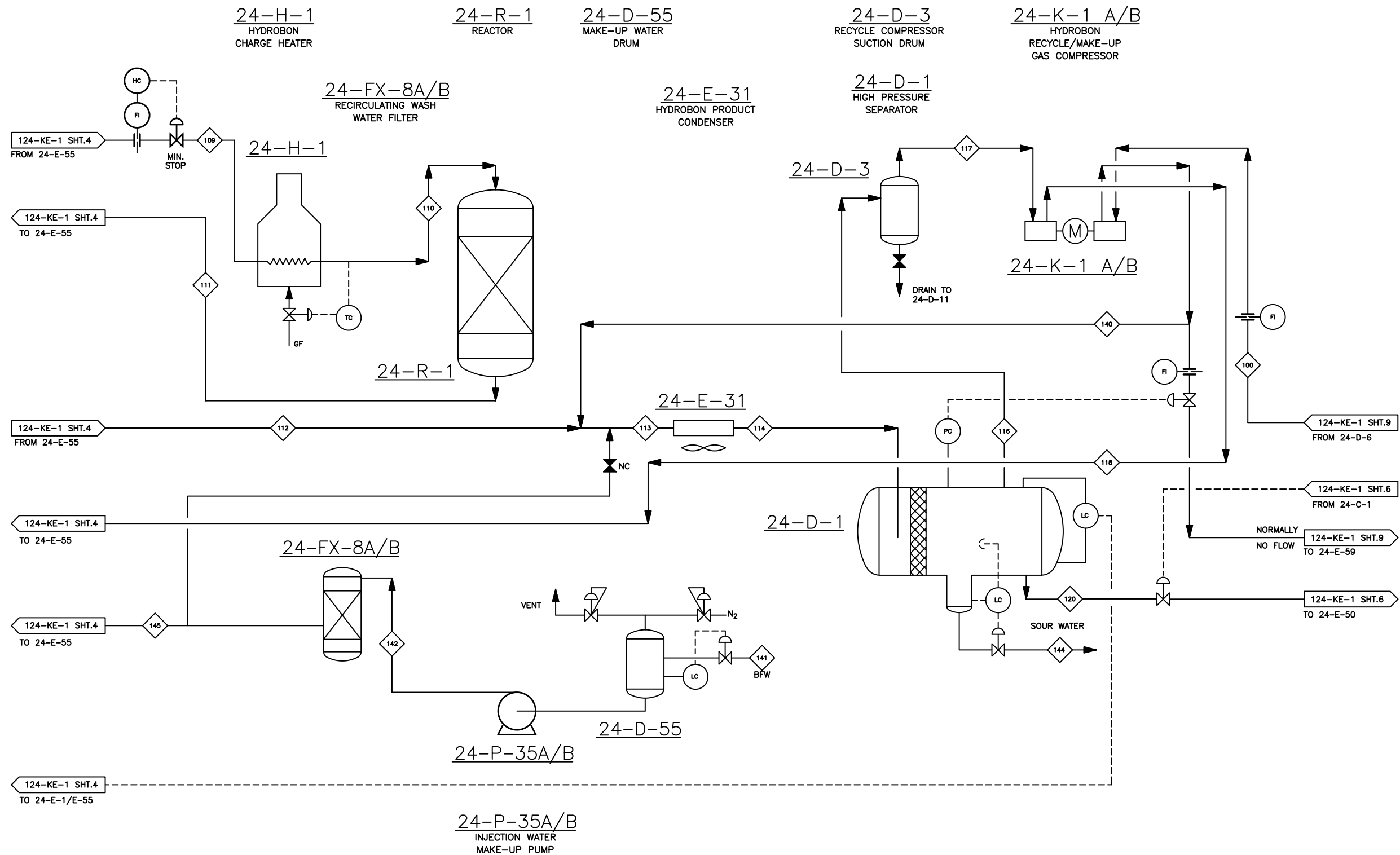
REVISION	DATE	DESCRIPTION	DRAWN BY	CHK'D BY	APP'D BY
2	DEC 99	RFG PROJECT ADDED - ENG FILE # 15001345 NOW 11 SHEETS AND DRAWINGS RESEQUENCED.	A.V.	H.L.	B.B.
1	MARCH 1974	PROCON DRAWING SHEET 1.2 & 3.			
0					

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TITLE	DEPARTMENT
CENTRAL REGION RFG PROJECT OAKVILLE PROCESS FLOW DIAGRAM #2 CRU - HYDROBON	AREA NO. 02
	CLASS NO.
	PROJ. NO. 15001345
	DATE APR. 1999
	SCALE NONE

DRAWN BY	CHECKED CH. DRAFT	SECTION NO.	DWG. NO.	REV.
A.V.	CHECKED ENGINEER	APPROVED BY	124-KE-1 SHT. 4 OF 11	2



GENERAL NOTES:

- FOR GENERAL NOTES AND LEGEND SEE DWG. No. 124-KE-1 SHT. 1 OF 10

REVISION	DATE	DESCRIPTION	DRAWN BY	CHK'D BY	APPR'D BY
2	DEC 99	RFG PROJECT ADDED - ENG FILE # 15001345 NOW 11 SHEETS AND DRAWINGS RESEQUENCED.	A.V.	H.L.	B.B.
1	MARCH 1974	PROCON DRAWING SHEET 1,2 & 3.			
0					

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TITLE: CENTRAL REGION RFG PROJECT OAKVILLE PROCESS FLOW DIAGRAM #2 CRU - HYDROBON
 DEPARTMENT: 02
 CLASS NO.:
 PROJ. NO.: 15001345
 DATE: AUG. 1997
 SCALE: NONE

DRAWN BY: PG	CHECKED CH. DRAFT: CHECKED ENGINEER	SECTION NO.: APPROVED BY:	DWG. NO.: 124-KE-1 SHT. 5 OF 11	REV.: 2
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CASE 1B 330 DEG F #1 NAPHTHA

STREAM NUMBER	100	109	111	112	116	117	118	120	140	141	142	144	145	146
STREAM ID	24-K-1 H2 MU	24-H-1 INLET	24-R-1 OUTLET	24-E-55 OUTLET	24-D-1 OFF GAS	24-K-1 SUCTION	24-K-1 DISCHARGE	24-D-1 LIQUID	MAKE UP H2	MAKE UP WATER	WASH WATER	SOUR WATER	WW TO 24-E-55	WW TO 24-E-31
PHASE	V	V	V	2	V	V	V	L	V	L	L	L	L	L
TEMPERATURE °F	100	601	661	211	110	110	166	110	165	235	235	110	235	110
PRESSURE psig	235	411	367	357	325	325	422	335	357	60	357	60	357	357
BBL/day	---	---	---	---	---	---	---	14686	---	513	513	491	513	---
lb/hr	300	154797	154797	16187	4241	4241	4241	150754	198	7100	7100	7100	7100	---
MW	8.68	64.22	64.24	52.17	5.68	5.68	5.68	89.39	8.62	18.01	18.01	20.46	18.01	18.01
ENTHALPY MMBTU/hr	---	---	---	---	---	---	---	4.3	---	---	---	---	---	---
usgpm @ T	---	---	---	---	---	---	---	442.1	---	15	15	14.3	15	---
ft ³ /sec @ T & P	0.23	14.96	19.36	---	3.74	3.74	3.20	---	0.11	---	---	---	---	---

24-C-4
PREFRACTIONATOR

24-D-56
WATER COLLECTION POT.

24-E-51
PREFRACTIONATOR
OVERHEAD CONDENSER

24-E-52
PREFRACTIONATOR
OVERHEAD TRIM CONDENSER

24-D-51
PREFRACTIONATOR RECEIVER

24-H-6
REBOILER

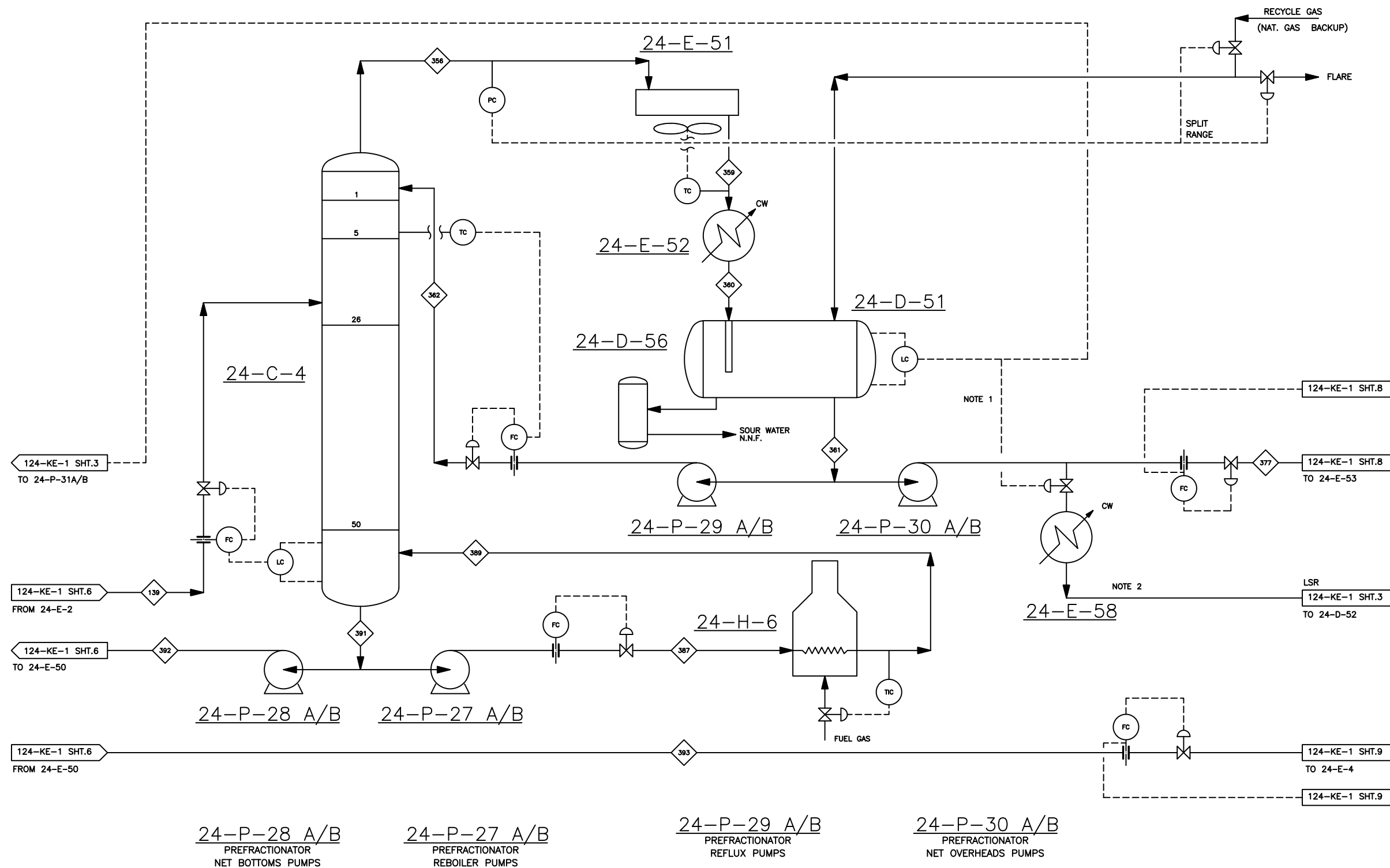
24-E-58
RUNDOWN COOLER

GENERAL NOTES

- FOR GENERAL NOTES AND LEGEND SEE DWG. 124-KE-1 SHT. 1 OF 10.

NOTES:

- VALVE TO STORAGE OPENS AT 80% LEVEL IN 24-D-51.
- NORMALLY NO FLOW.



24-P-28 A/B
PREFRACTIONATOR
NET BOTTOMS PUMPS

24-P-27 A/B
PREFRACTIONATOR
REBOILER PUMPS

24-P-29 A/B
PREFRACTIONATOR
REFLUX PUMPS

24-P-30 A/B
PREFRACTIONATOR
NET OVERHEADS PUMPS

CASE 1B 330 DEG F #1 NAPHTHA

STREAM NUMBER	139	356	359	360	361	362	377	387	389	391	392	393
STREAM ID	24-C-4 FEED	24-C-4 OHD VAPOUR	24-E-51 EFFLUENT	24-E-52 EFFLUENT	24-D-51 LIQUID	24-C-4 REFLUX	ISOM FEED	24-H-6 FEED	24-H-6 EFFL	24-C-4 BOTTOMS	24-C-4 NET BTMS	REFORMER CHARGE
PHASE	L	V	L	L	L	L	L	L	2	L	L	L
TEMPERATURE °F	268	180	131	120	120	120	120	296	327	296	296	179
PRESSURE psig	135	15	10	10	10	15	268	79	29	79	301	293
BBL/day	14102	---	21308	21308	21308	13806	7502	37466	---	44115	6649	6649
lb/hr	146524	208661	208661	208661	135194	73467	414219	414219	487735	73516	73516	73516
MW	92.88	79.50	79.50	79.50	79.50	79.50	79.50	111.50	111.50	111.50	111.51	111.51
ENTHALPY MMBTU/hr	15.84	42.35	7.66	6.40	6.40	4.11	2.29	50.72	80.67	59.60	8.88	4.14
usgpm @ T	488.2	---	657.7	651.5	651.5	422.1	229.4	1290.1	---	1519.0	228.9	209.2
ft ³ /sec @ T & P	---	156.20	---	---	---	---	---	---	---	---	---	---

REVISION	DATE	DESCRIPTION	DRAWN BY	CHK'D BY	APP'D BY
2	DEC 99	RFG PROJECT ADDED - ENG FILE # 15001345 NOW 11 SHEETS AND DRAWINGS RESEQUENCED.	A.V.	H.L.	B.B.
1	MARCH 1974	PROCON DRAWING SHEET 1,2 & 3.			
0					

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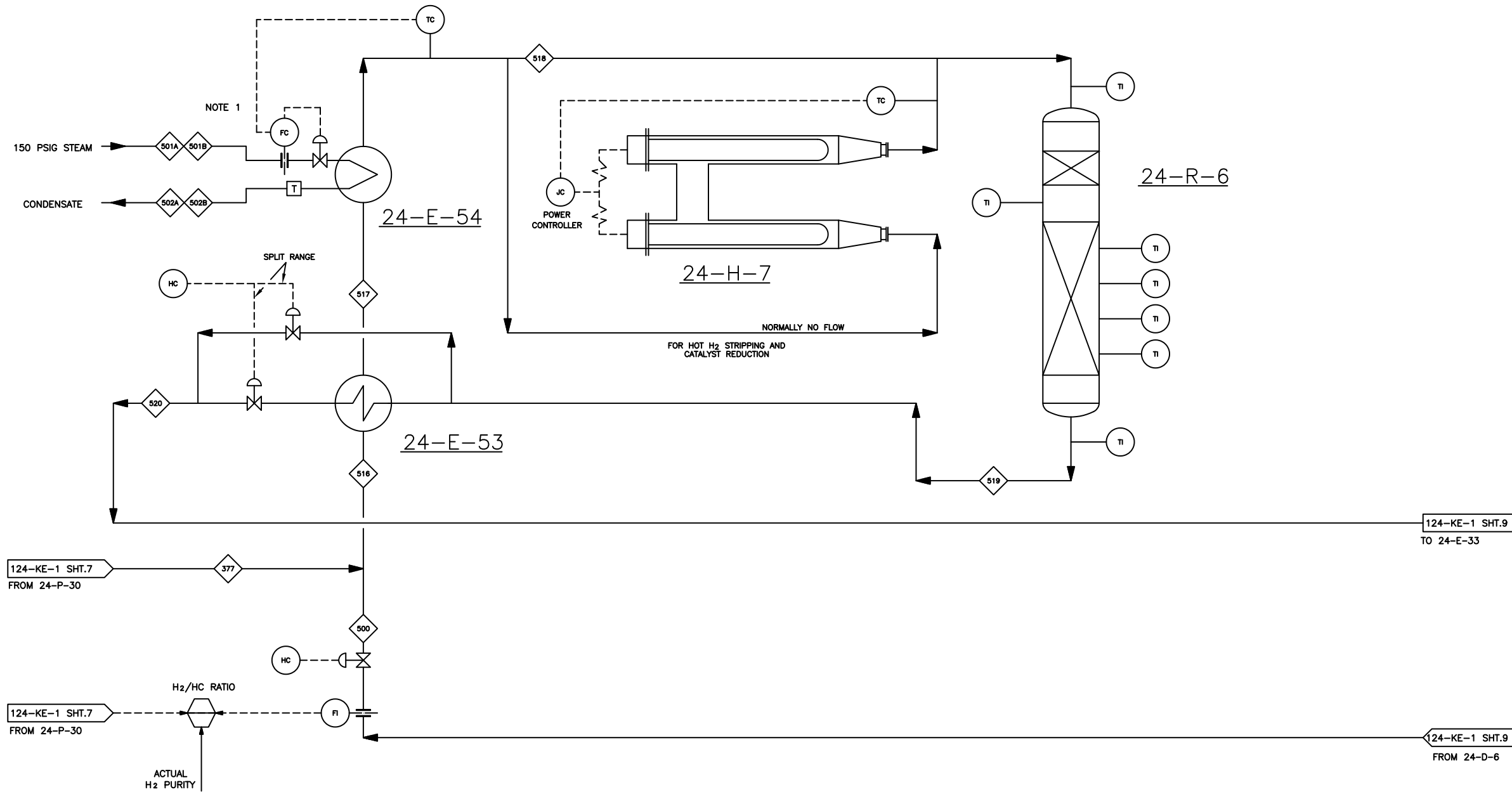
TITLE	DEPARTMENT
CENTRAL REGION RFG PROJECT OAKVILLE PROCESS FLOW DIAGRAM #2 CRU - PREFRACTIONATOR	02
	CLASS NO.
	PROJ. NO. 15001345
	DATE AUG. 1997
	SCALE NONE
DRAWN BY PG	CHECKED CH. DRAFT
	CHECKED ENGINEER
	SECTION NO.
	APPROVED BY
	DWG. NO. 124-KE-1
	SHT. 7 OF 11
	REV. 2

24-E-54
PREHEATER
DUTY : 2.54 MMBTU/HR
4.56 MMBTU/HR

24-E-53
ISOM COMBINED FEED
EFFLUENT EXCHANGER

24-H-7
ELECTRIC HEATER

24-R-6
PAR ISOM REACTOR



GENERAL NOTES

- FOR GENERAL NOTES AND LEGEND SEE DWG. 124-KE-1 SHT. 1 OF 10.

NOTES:

- STEAM & CONDENSATE RATES VARY DEPENDING UPON BENZENE CONTENT OF FEED STREAM.

124-KE-1 SHT.9
TO 24-E-33

124-KE-1 SHT.9
FROM 24-D-6

CASE 1B 330 DEG F #1 NAPHTHA

STREAM NUMBER	377	500	501 A	501 B	502 A	502 B	516	517	518	519	520
STREAM ID	ISOM FEED	RECYCLE HYDROGEN	24-E-54 MP STREAM	24-E-54 MP STREAM	24-E-54 MP COND.	24-E-54 MP COND.	24-E-53 SS INLET	24-E-54 SS INLET	24-R-6 INLET	24-R-6 OUTLET	24-E-53 TS OUTLET
PHASE	L	V	V	V	L	L	2	V	V	V	2
TEMPERATURE °F	120	100	364	364	364	364	104	270	302	386	150
PRESSURE psig	268	235	150	150	150	150	221	206	203	200	182
BBL/day	7502	---	---	---	---	---	---	---	---	---	---
lb/hr	73467	38973	2954	5200	2954	5200	112440	112440	112440	112500	112500
MW	79.50	8.63	18.01	18.01	18.01	18.01	20.66	20.66	20.66	21.50	21.50
ENTHALPHY MMBTU/hr	2.29	6.10	3.53	6.22	1.00	1.76	8.39	31.34	33.88	40.43	17.58
usgpm @ T	229.4	---	---	---	6.7	11.8	---	---	---	---	---
ft ³ /sec @ T & P	---	30.15	2.29	3.98	---	---	---	53.20	56.35	61.17	---

REVISION	DATE	DESCRIPTION	DRAWN BY	CHEK'D BY	APPR'D BY
2	DEC 99	RFG PROJECT ADDED - ENG FILE # 15001345 NOW 11 SHEETS AND DRAWINGS RESEQUENCED.	A.V.	H.L.	B.B.
1	MARCH 1974	PROCON DRAWING SHEET 1,2 & 3.			
0					

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TITLE CENTRAL REGION RFG PROJECT OAKVILLE PROCESS FLOW DIAGRAM #2 CRU - PAR-ISOM		DEPARTMENT AREA NO. 02
CLASS NO.		PROJ. NO. 15001345
DATE AUG. 1997		SCALE NONE
DRAWN BY PG	CHECKED CH. DRAFT CHECKED ENGINEER	SECTION NO. APPROVED BY
DWG. NO. 124-KE-1 SHT. 8 OF 11		REV. 2

24-E-4 A/B
PLATFORMING COMBINED
FEED EXCHANGER

24-E-33
PLATFORMING
PRODUCTS CONDENSER

24-D-5
LOW PRESSURE
SEPARATOR

24-K-2
PLATFORMING
RECYCLE GAS
COMPRESSOR

24-D-6
PLATFORMING
PRODUCTS SEPARATOR

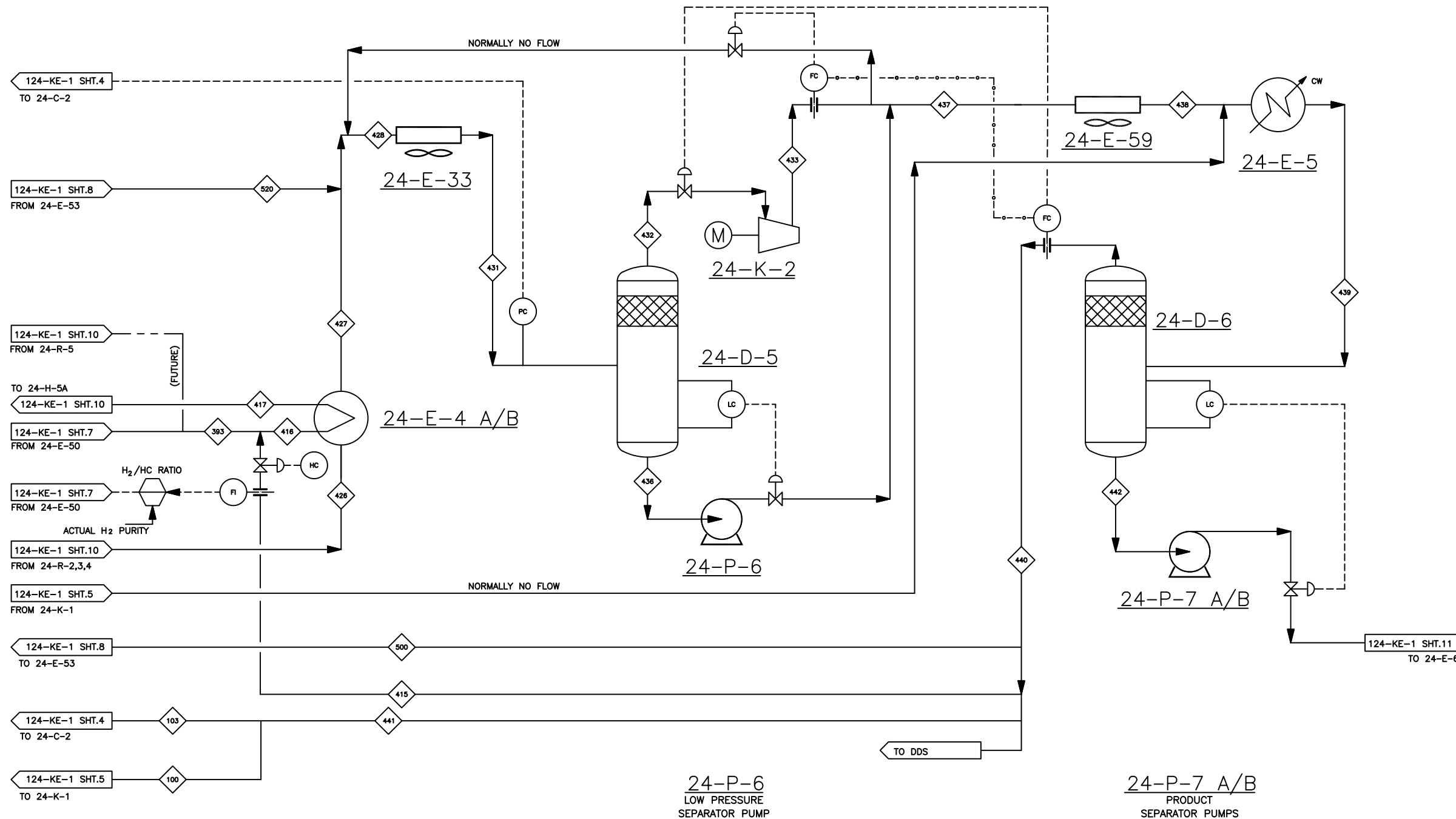
24-E-59
HIGH PRESSURE
PRECOOLER

24-E-5
HIGH PRESSURE
COOLER

GENERAL NOTES

- FOR GENERAL NOTES AND LEGEND SEE DWG. 124-KE-1 SHT. 1 OF 10.

NOTES:



CASE 1B 330 DEG F #1 NAPHTHA

STREAM NUMBER	100	103	393	415	416	417	426	427	428	431	432	433	436	437	438	439	440	441	442	500	520
STREAM ID	24-K-1 H2 MU	H2 TO 24-C-2	REFORMER CHARGE	HYDROGEN RECYCLE	24-E-4 TS INLET	24-H-5 A INLET	24-R-4 OUTLET	24-E-4 SS OUTLET	24-E-33 INLET	24-E-33 OUTLET	24-K-2 SUCTION	24-K-2 DISCHARGE	24-D-5 LIQUID	24-E-59 INLET	24-E-59 OUTLET	24-E-5 OUTLET	24-D-6 VAPOUR	H2 REC.	24-D-6 LIQUID	RECYCLE HYDROGEN	24-E-53 TS OUTLET
PHASE	V	V	L	V	2	V	V	2	2	2	V	V	L	2	2	2	V	V	L	V	2
TEMPERATURE °F	100	100	179	100	145	801	867	196	171	100	100	153	100	125	109	100	100	100	100	100	150
PRESSURE psig	235	235	293	235	215	211	182	175	175	170	170	240	170	240	237	235	235	235	235	235	182
BBL/day	---	---	6649	---	---	---	---	---	---	---	---	12676	---	---	---	---	---	---	13694	---	---
lb/hr	300	6104	73516	35173	108689	108689	108720	108720	221220	221220	89601	89601	131619	221220	221220	221220	80550	6404	140670	38973	112500
MW	8.68	8.62	111.51	8.63	22.94	22.94	18.84	18.84	20.10	20.10	9.46	9.46	86.12	20.10	20.10	20.10	8.63	8.63	84.36	8.63	21.50
ENTHALPY MMBTU/hr	---	---	4.14	5.50	9.64	75.29	83.59	18.07	35.65	16.79	14.17	18.71	2.62	21.33	19.58	15.43	12.60	1.00	2.83	6.10	17.58
usgpm @ T	---	---	209.2	---	---	---	---	---	---	---	---	---	378.6	---	---	---	---	---	409.6	---	---
ft ³ /sec @ T & P	0.23	4.70	---	27.22	---	79.05	116.23	---	---	---	---	85.44	67.96	---	---	---	62.32	4.95	---	30.15	---

REVISION	DATE	DESCRIPTION	DRAWN BY	CHK'D BY	APP'D BY
2	DEC 99	RFQ PROJECT ADDED - ENG FILE # 15001345 NOW 11 SHEETS AND DRAWINGS RESEQUENCED.	A.V.	H.L.	B.B.
1	MARCH 1974	PROCON DRAWING SHEET 1,2 & 3.			
0					

colt engineering corporation
977892

PETRO-CANADA
OAKVILLE REFINERY

TITLE: CENTRAL REGION RFG PROJECT
OAKVILLE
PROCESS FLOW DIAGRAM
#2 CRU - PLATFORMER

DEPARTMENT: 02
CLASS NO.:
PROJ. NO.: 15001345
DATE: APRIL 1999
SCALE: NONE

DRAWN BY: A.V.
CHECKED ENGINEER:
SECTION NO.:
APPROVED BY:
DWG. NO.: 124-KE-1
SHT. 9 OF 11
REV: 2

24-H-4
REACTOR NO. 4
CHARGE HEATER
(FUTURE)

24-H-5 A/B/C
PLATFORMING HEATER

24-R-2
PLATFORMING
REACTOR NO. 1

24-R-3
PLATFORMING
REACTOR NO. 2

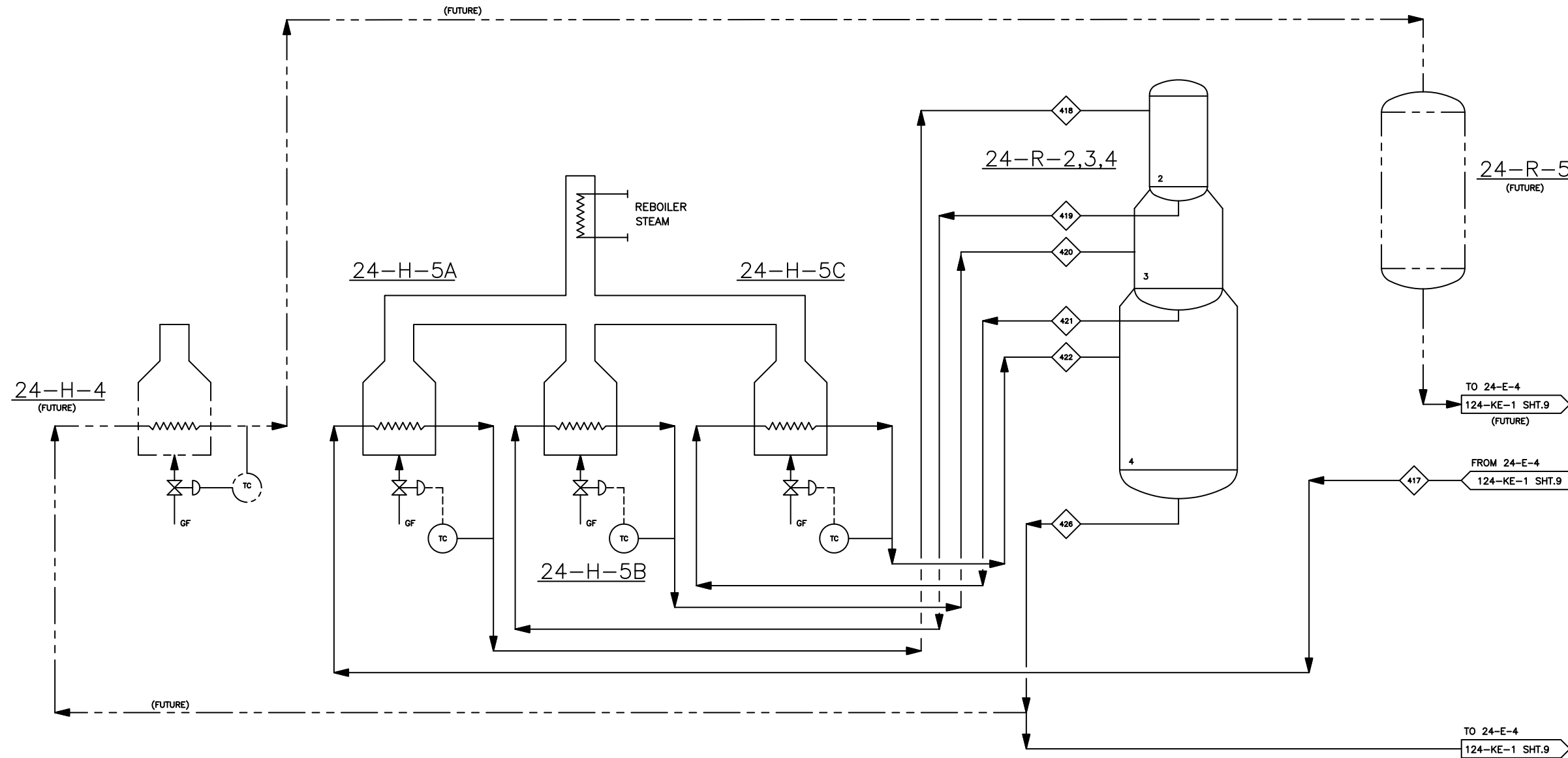
24-R-4
PLATFORMING
REACTOR NO. 3

24-R-5
PLATFORMING
REACTOR NO. 4

GENERAL NOTES

1. FOR GENERAL NOTES AND LEGEND SEE DWG. 124-KE-1 SHT. 1 OF 10.

NOTES:



CASE 1B 330 DEG F #1 NAPHTHA

STREAM NUMBER	417	418	419	420	421	422	426
STREAM ID	24-H-5 A INLET	24-R-2 INLET	24-H-5 B INLET	24-R-3 INLET	24-H-5 C INLET	24-R-4 INLET	24-R-4 OUTLET
PHASE	V	V	V	V	V	V	V
TEMPERATURE °F	801	925	781	925	823	925	867
PRESSURE psig	211	204	202	195	192	186	182
BBL/day	---	---	---	---	---	---	---
lb/hr	108689	108689	108689	108689	108689	108689	108720
MW	22.94	22.94	20.75	20.75	19.42	19.42	18.84
ENTHALPY MMBTU/hr	75.29	87.74	74.19	88.61	78.91	89.22	83.59
usgpm @ T	---	---	---	---	---	---	---
ft ³ /sec @ T & P	79.05	89.59	89.62	103.58	104.01	115.36	116.23

--	--	--	--	--	--

2	DEC 99	RFG PROJECT ADDED - ENG FILE # 15001345 NOW 11 SHEETS AND DRAWINGS RESEQUENCED.	A.V.	H.L.	B.B.
1	MARCH 1974	PROCON DRAWING SHEET 1,2 & 3.			
0					
REVISION	DATE	DESCRIPTION	DRAWN BY	CHECK'D BY	APP'D BY

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TITLE	DEPARTMENT
CENTRAL REGION RFG PROJECT OAKVILLE PROCESS FLOW DIAGRAM #2 CRU - PLATFORMER	AREA NO. 02
CLASS NO.	PROJ. NO. 15001345
DATE	AUG. 1997
SCALE	NONE

DRAWN BY	CHECKED CH. DRAFT	SECTION NO.	DWG. NO.	REV.
PG	CHECKED ENGINEER	APPROVED BY	124-KE-1 SHT. 10 OF 11	2

24-E-6 A/B/C
STABILIZER
FEED EXCHANGERS

24-E-35
STABILIZER
BOTTOMS COOLER

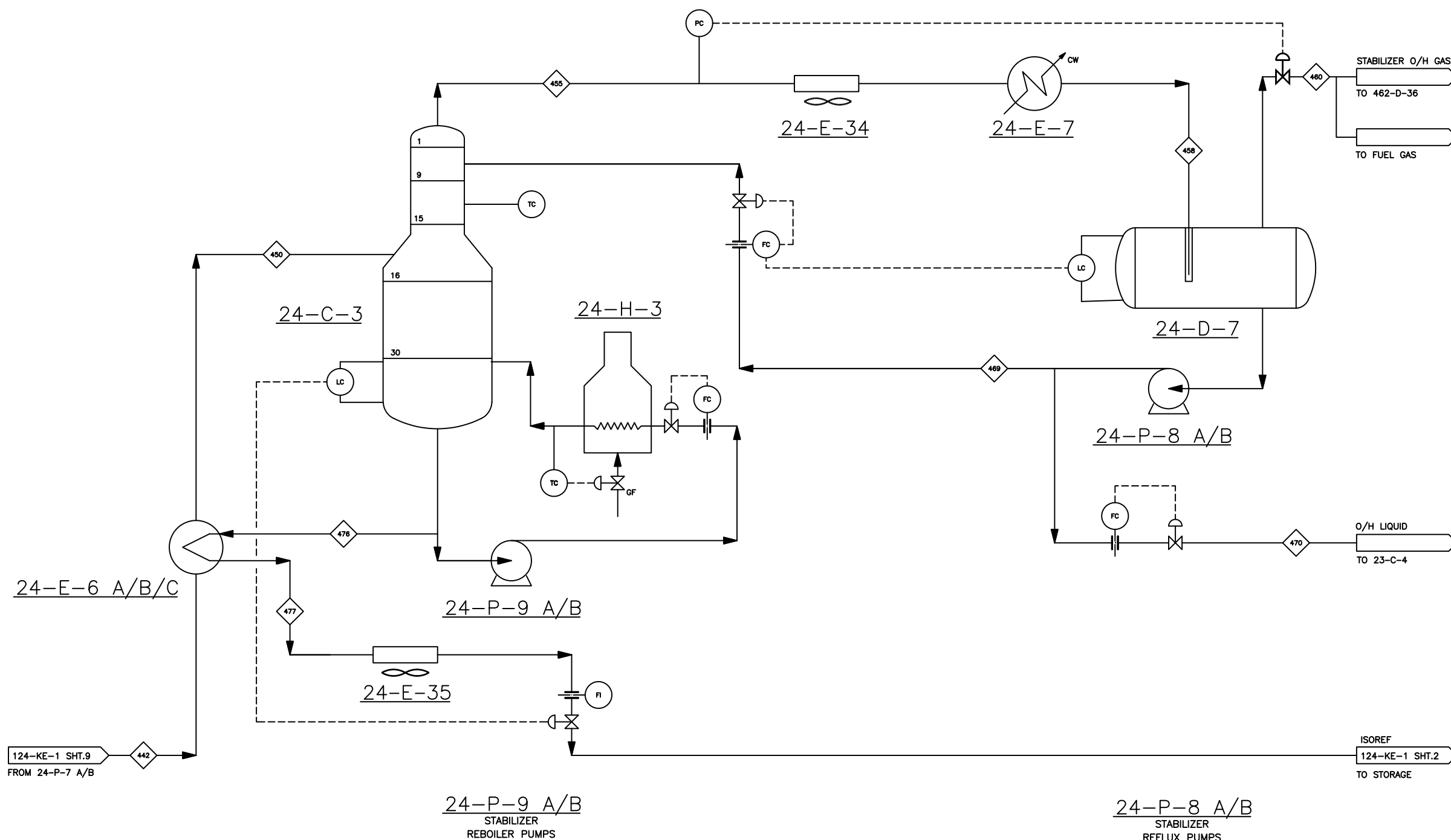
24-C-3
STABILIZER

24-H-3
STABILIZER
REBOILER HEATER
DUTY: 12.28 MMBTU/HR

24-E-34
STABILIZER
CONDENSER

24-E-7
STABILIZER
TRIM CONDENSER

24-D-7
STABILIZER
RECEIVER



124-KE-1 SHT.9
FROM 24-P-7 A/B

ISOREF
124-KE-1 SHT.2
TO STORAGE

24-P-9 A/B
STABILIZER
REBOILER PUMPS

24-P-8 A/B
STABILIZER
REFLUX PUMPS

GENERAL NOTES

1. FOR GENERAL NOTES AND LEGEND SEE DWG. 124-KE-1 SHT. 1 OF 10.

NOTES:

REVISION	DATE	DESCRIPTION	DRAWN BY	CHK'D BY	APPR'D BY
2	DEC 99	RFG PROJECT ADDED - ENG FILE # 15001345 NOW 11 SHEETS AND DRAWINGS RESEQUENCED.	A.V.	H.L.	B.B.
1	MARCH 1974	PROCON DRAWING SHEET 1,2 & 3.			
0					

colt engineering corporation
97T892



TITLE CENTRAL REGION RFG PROJECT OAKVILLE PROCESS FLOW DIAGRAM #2 CRU - PLATFORMER		DEPARTMENT AREA NO. 02
CLASS NO.		PROJ. NO. 15001345
DATE APRIL 1999		SCALE NONE
DRAWN BY A.V.	CHECKED CH. DRAFT CHECKED ENGINEER	SECTION NO. APPROVED BY
DWG. NO. 124-KE-1 SHT. 11 OF 11		REV. 2

CASE 1B 330 DEG F #1 NAPHTHA

STREAM NUMBER	442	450	455	458	460	469	470	476	477
STREAM ID	24-D-6 LIQUID	24-C-3 FEED	24-C-3 VAPOUR	24-C-3 COND LIQ	24-C-3 NET VAP.	24-C-3 REFLUX	24-C-3 NET TOPS	24-C-3 NET BTMS.	24-C-3 NET BTMS.
PHASE	L	2	V	2	V	L	L	L	L
TEMPERATURE °F	100	307	190	100	100	100	392	204	
PRESSURE psig	235	285	258	250	250	250	250	262	250
BBL/day	13694	---	---	---	---	2854	633	12744	12744
lb/hr	140670	140670	29269	29269	1992	22324	4953	133724	133724
MW	84.36	84.36	48.94	48.94	29.91	51.33	51.33	88.89	88.89
ENTHALPY MMBTU/hr	2.83	20.43	5.69	1.06	0.31	0.61	0.14	27.59	9.99
usgpm @ T	409.6	---	---	---	---	86.6	19.2	524.3	412.6
ft ³ /sec @ T & P	---	---	4.25	---	0.42	---	---	---	---