PLANT NORTH

73-PC-109 DE CANTING SYSTEM
DESIGN FLOW RATE: 60m^3/h
DESIGN PRESSURE: 62 kPa
DESIGN TEMPERATURE: 30°C
INSULATION: NIL

73-SF-102 FILTER/SEPARATOR
DESIGN FLOW RATE: 138m^3 /hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65°C
INSULATION: NIL

73-SF-107 STRAINER/AIR ELIMINATOR
DESIGN FLOW RATE: 138m^3 /hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65°C

73-MM-102 PRODUCT POSITIVE DISPLACEMENT METER AND CONTROL
DESIGN FLOW RATE: 138m^3 /hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65°C

73-MA-102 LOADING ARM - DIESEL
DESIGN FLOW RATE: 138m^3 /hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65°C

BAY 1 BAY 3 BAY 5 BAY 7 BAY 9
BAY 2 BAY 4 BAY 6 BAY 8 BAY 10

KEY PLAN

HSI 1102A, HSI 1102B, HS 1102, ASSIZE TANK RAIL
MCC JJ103-A, SWITCH POWER TO ASSIZE PUMP
PUMP 51-PC 177A RUNNING, PUMP 51-PC 177B RUNNING
51-ML 1226, 51-ML 1228, NOTE 3
XL 1110, PERMISSIVE FROM CAR PUSHER CONTROL
XL 1111, PERMISSIVE FROM F & S SYSTEM
PERMISSIVE FROM BLENDING CONTROL NOTE 3
XL 1112
HS 1101, HSI 1101
HS 1103, RAIL, ROAD, TANKER SELECT SWITCH, P073.1052
ZL 6103A, STATIC LINE CONNECTION ON
ZL 1103A, ZS 1103A, ZL 1103B, ZS 1103B, STATIC LINE CONNECTION OFF
ZL 1102B, ZS 1102B, ZL 1102A, ZS 1102A
PERMISSIVE TO OPEN VALVE
RAIL LOADING, ROAD LOADING
LOADING ARM DOWN FOR FILLING
LOADING ARM UP FOR CAR PUSHER
TRAINLOAD LTD. VENDOR DRG No.: 73771/9/10 (PO No. 2342-M-R026-P1602).
PERMISSIVE TO START CAR PUSHER
PLATFORM RAISED
ZL 1101, ZS 1101
ZL 1105, ZS 1105, ASSIZE CONTROL PLUG IN
PERMISSIVE TO PROCEED WITH ASSIZE TEST (TO PUMP ON ASSIZE WAGON).
ZL 1104, ZS 1104, ASSIZE POWER PLUG IN
BAY 8 7313002-D115 1 STATIC LINE ON
P073.1052

AP EE730013002-D530
HY 1101
HLO 1101, HZO 1101, HLC 1101, HZC 1101
¾"x1" SET AT 1800 kPa PSV 1101, PSV 1102
PG AH, DPG
UNIT 44 UNIT 73 BL
UNIT 51 EE440013002-D609 DIESEL
73-PPD-4101-AB-8", 8" LO, FC, HV 1101
73-VRL-4102-AB-1"
73-SF102
TUN DISH
73-DCW-5105-KA-2", DCW NOTE 1
73-PPP-M0002-AB-4", ¾", 2", PG AC
73-PPP-M0001-AB-6"
73-PPP-M0003-AB-1½"
73-PC 109
DCP 03, LO, DAR 04

73-PPD-4105-AB-¾"
¾"x1" SET AT 1800 kPa PSV 1103
ASSIZE AIR TEST LOOP MINIMUM VOLUME 50 LITRES
73-PPD-4107-AB-8"
73-PPD-4108-AB-1"
TW, PG AH
73-MM-102
73-PPD-4101-AB-4", NOTE 2
73-SF-107
REF DWG: No EE730013002-D400
73-PPD-4106-AB-1"
73-PPD-4103-AB-4"
73-PPD-4106-AB-1"
DCW, DCW NOTE 1
TI 1102, TT 1102, TE 1102, TW-DA 4"
PI 1101, PT 1101, L
¾"x1" SET AT 1800 kPa PSV 1104
PG AH
73-PPD-4104-AB-4", BAY 3
73-PPD-4109-AB-1"
ASSIZE TEST MEASURE DRG No. 2342-EE7300-13002-D104 BAY 3
LC BAY 3

HAND CONTROL TO VALVE
VACUUM BREAKER
73-MA-102
BY VENDOR
STATIC LINE (200 AMP WELDING CABLE)
SYNFUELS SATS
SATS RAIL TANKWAGON
3 PHASE PLUG IN
CONTROL PLUG IN
SLOPE
DCW
P073.1052
73-PPD-4104-AB-4" Diesel 2 7313002-D115
73-PPD-M0042-AB-4" EE730013002-D106
73-PPP-M0001-AB-6" EE730013002-D107

NOTES:
1. THE DRAINS SHOWN TERMINATE IN THE TANK FARM DRAIN SYSTEM.
2. VALVES TO HAVE RISING STEMS.
3. REF MFD 2342EE510013002-D208.

NOTE:
THIS DRAWING PREVIOUSLY NUMBERED 2342-EE7300-13002**D102

REV. NO.	DATE	REVISION	DR.	APP. E & I	APP. PR ENG	APP. MOSSGAS	DRAWING NO.	REFERENCE DRAWING DESCRIPTION
18	28/01/15	REVISED AS PER P073.1052	DN MP	JvA	FS	FVB		
17	21/02/12	REVISED AS PER P073.1033	BvdM MP		MX	FVB		
16	25/11/10	REVISED AS PER P073.1026	DG HW	JvA	MX	FVB		
15	12/03/09	REVISED AS PER P051.1139	R.T. M.P.	/	MX	FVB		
14	13/08/96	PLANT MODIFICATION INCORPORATED	R.T. J.C.	/	/	/	2342-EE7300-13002-D***	DCS LOGIC DIAGRAM
			CH.				2342-ZZ0000-13002-D000	FLOW DIAGRAM LEGEND

PRODUCED ON MOSSCAD
NO ORIGINAL AVAILABLE ,ALL FUTURE REVISIONS TO BE DONE ON CAD

DRAWN BY: S.V. SIMCOX
CHECKED BY / DESIGN SUPV'R.: D.H. DUNCAN
DESIGN ENG. / LEAD ENG.: P.A. OLIVIER
PROFESSIONAL ENG. & NO.: D.W. BROADHURST 750659
SYNFUELS: N. WILLEMSE
MOSSREF: G. DEDEKIND

MOSSGAS (PROPRIETARY) LIMITED (EIENDOMS) BEPERK
MOSSELBAY ONSHORE OPERATIONS

UNIT 73 RAIL & ROAD RECEIPTS & DESPATCHES
P073.1052 MECHANICAL FLOW DIAGRAM
RAIL TANKER FILLING
DIESEL PRODUCT (BAY 1)

SCALE	PROJECT NO.	PLANT	UNIT	AREA	DOC. CAT. NO.		IDENT.	SERIAL NO.	REV.	STATUS
NTS	2342	EE	73	00	13002	**	D	105	18	

E:\UNIT73\13002\D105.DGN

3 2 1

PLANT NORTH

73-SF-103 FILTER/SEPARATOR

DESIGN FLOW RATE: 138m^3 /hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65^{0}C
INSULATION: NIL

73-SF-108 STRAINER/AIR ELIMINATOR

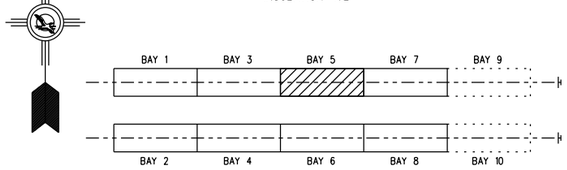
DESIGN FLOW RATE: 138m^3 /hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65^{0}C

73-MM-103 PRODUCT POSITIVE DISPLACEMENT METER AND CONTROL

DESIGN FLOW RATE: 138m^3 /hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65^{0}C

73-MA-103 LOADING ARM - ULP 93

DESIGN FLOW RATE: 138m^3 /hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65^{0}C



KEY PLAN

NOTES:

1. THE DRAINS SHOWN TERMINATE IN THE TANK FARM DRAIN SYSTEM.
2. VALVES TO HAVE RISING STEMS.
3. REF MFD 2342EE51001302-D209
4. RE-INSTATE LOADING ARM

NOTE:
THIS DRAWING PREVIOUSLY NUMBERED 2342-EE7300-13002**D103

REV. NO.	DATE	REVISION	DR.	APP. E & I	APP. PR ENG	APP. MOSSGAS	DRAWING NO.	REFERENCE DRAWING DESCRIPTION
14	28/01/15	REVISED AS PER P073.1052 & P073.1037	DN MP	JvA	FS	FVB		
13	12/06/12	REVISED AS PER P073.1037	MP		MX	FVB		
12	12/03/09	REVISED AS PER P051.1139	BvA RT	/	MX	FVB	2342-EE7300-NQ101-D***	DCS LOGIC DIAGRAM
11	08/12/99	REVISED AS PER P073.1007	MP RT	/	/	/	2342-EE7300-QZ005-D010	FIRE FIGHTING LAYOUT
							2342-ZZ0000-13002-D000	FLOW DIAGRAM LEGEND

PRODUCED ON MOSSCAD
NO ORIGINAL AVAILABLE ,ALL FUTURE REVISIONS TO BE DONE ON CAD

DRAWN BY: S.V. SIMCOX
CHECKED BY / DESIGN SUPV'R.: D.H. DUNCAN
DESIGN ENG. / LEAD ENG.: P.A. OLIVIER
PROFESSIONAL ENG. & NO.: D.W. BROADHURST 750659
SYNFUELS: N. WILLEMSE
MOSSREF: G. DEDEKIND

MOSSGAS (PROPRIETARY) LIMITED (EIENDOMS) BEPERK
MOSSELBAY ONSHORE OPERATIONS

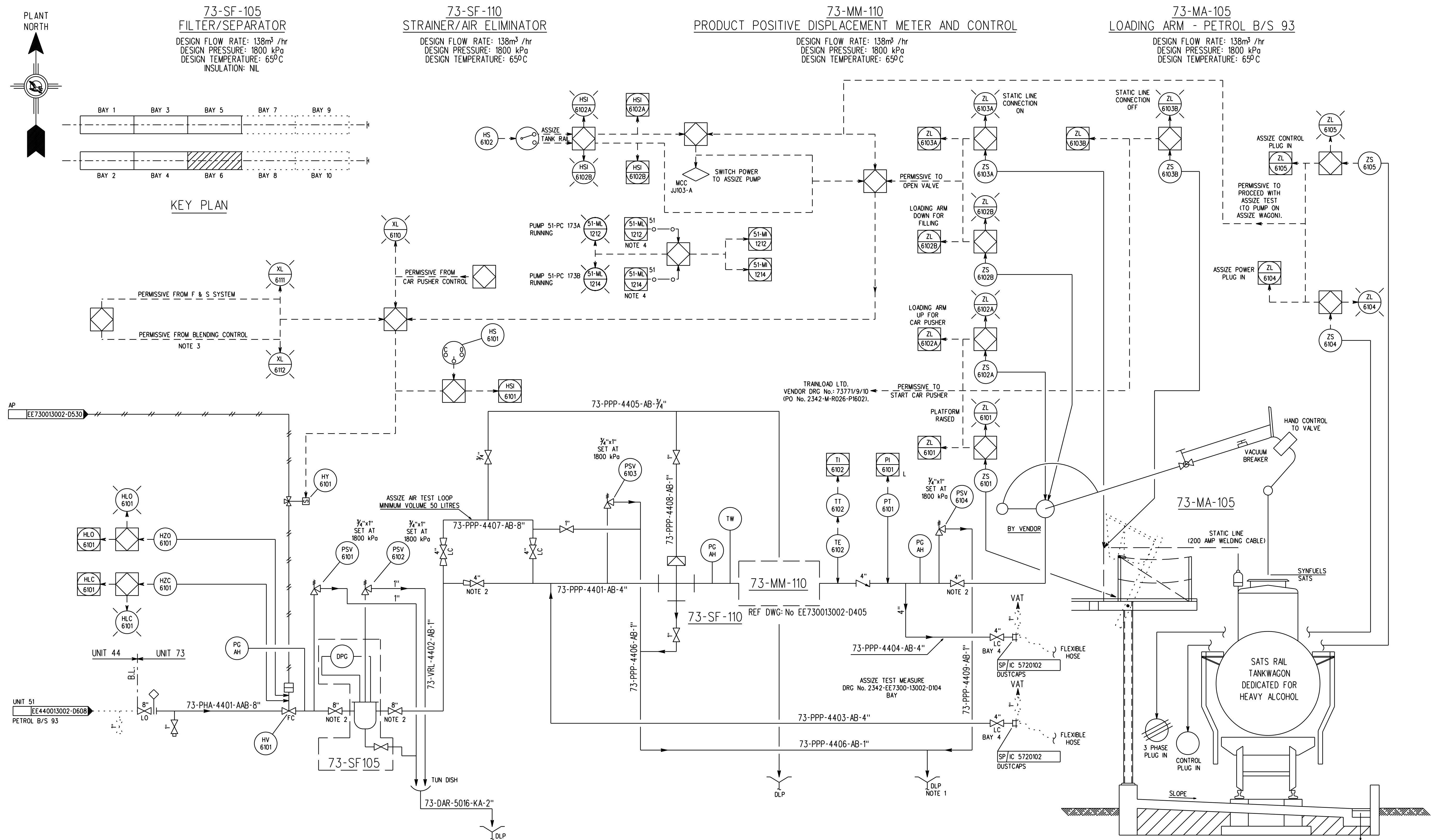
UNIT 73 RAIL & ROAD RECEIPTS & DESPATCHES MECHANICAL FLOW DIAGRAM
RAIL TANKER FILLING
ULP 93 PRODUCT (BAY 5)

P073.1052

SCALE	PROJECT NO.	PLANT	UNIT	AREA	DOC. CAT. NO.		IDENT.	SERIAL NO.	REV.	STATUS
NTS	2342	EE	7300	13002	**		D	106	14	

E:/UNIT73/13002/D106.DGN

3 2 1


PLANT NORTH
73-SF-105
FILTER/SEPARATOR
DESIGN FLOW RATE: 138m³ /hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65°C
INSULATION: NIL
73-SF-110
STRAINER/AIR ELIMINATOR
DESIGN FLOW RATE: 138m³ /hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65°C
73-MM-110
PRODUCT POSITIVE DISPLACEMENT METER AND CONTROL
DESIGN FLOW RATE: 138m³ /hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65°C
73-MA-105
LOADING ARM - PETROL B/S 93
DESIGN FLOW RATE: 138m³ /hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65°C
BAY 1
BAY 3
BAY 5
BAY 7
BAY 9
BAY 2
BAY 4
BAY 6
BAY 8
BAY 10
KEY PLAN
HS 6102
ASSIZE TANK RAIL
HSI 6102A
HSI 6102B
SWITCH POWER TO ASSIZE PUMP
MCC JJ103-A
PERMISSIVE TO OPEN VALVE
STATIC LINE CONNECTION ON
ZL 6103A
ZS 6103A
STATIC LINE CONNECTION OFF
ZL 6103B
ZS 6103B
ZL 6105
ASSIZE CONTROL PLUG IN
ZS 6105
PERMISSIVE TO PROCEED WITH ASSIZE TEST (TO PUMP ON ASSIZE WAGON).
ASSIZE POWER PLUG IN
ZL 6104
ZS 6104
PUMP 51-PC 173A RUNNING
51-ML 1212
NOTE 4
PUMP 51-PC 173B RUNNING
51-ML 1214
51-MI 1212
51-MI 1214
LOADING ARM DOWN FOR FILLING
ZL 6102B
ZS 6102B
LOADING ARM UP FOR CAR PUSHER
ZL 6102A
ZS 6102A
XL 6110
XL 6111
XL 6112
PERMISSIVE FROM CAR PUSHER CONTROL
PERMISSIVE FROM F & S SYSTEM
PERMISSIVE FROM BLENDING CONTROL
NOTE 3
HS 6101
HSI 6101
TRAINLOAD LTD.
VENDOR DRG No.: 73771/9/10
(PO No. 2342-M-R026-P1602).
PERMISSIVE TO START CAR PUSHER
PLATFORM RAISED
ZL 6101
ZS 6101
AP
EE730013002-D530
73-PPP-4405-AB-¾"
HY 6101
HLO 6101
HZO 6101
HLC 6101
HZC 6101
ASSIZE AIR TEST LOOP
MINIMUM VOLUME 50 LITRES
73-PPP-4407-AB-8"
¾"x1" SET AT 1800 kPa
PSV 6101
PSV 6102
PSV 6103
PSV 6104
73-PPP-4408-AB-1"
TW
PG AH
TI 6102
PI 6101
TT 6102
PT 6101
TE 6102
BY VENDOR
HAND CONTROL TO VALVE
VACUUM BREAKER
73-MA-105
STATIC LINE (200 AMP WELDING CABLE)
SYNFUELS SATS
73-PPP-4401-AB-4"
NOTE 2
73-MM-110
REF DWG: No EE730013002-D405
73-SF-110
73-PPP-4406-AB-1"
73-PPP-4404-AB-4"
VAT
FLEXIBLE HOSE
BAY 4
SP/IC 5720102
DUSTCAPS
ASSIZE TEST MEASURE
DRG No. 2342-EE7300-13002-D104
BAY
73-PPP-4409-AB-1"
73-PPP-4403-AB-4"
SATS RAIL TANKWAGON DEDICATED FOR HEAVY ALCOHOL
3 PHASE PLUG IN
CONTROL PLUG IN
SLOPE
UNIT 44
UNIT 73
B.L.
UNIT 51
EE440013002-D608
PETROL B/S 93
LO
73-PHA-4401-AAB-8"
FC
HV 6101
DPG
73-SF105
73-VRL-4402-AB-1"
TUN DISH
73-DAR-5016-KA-2"
DLP
NOTE 1

NOTE:
THIS DRAWING PREVIOUSLY NUMBERED 2342-EE7300-13002**D105

NOTES:

1. THE DRAINS SHOWN TERMINATE IN THE TANK FARM DRAIN SYSTEM.
2. VALVES TO HAVE RISING STEMS.
3. DCS LOGICS CHANGES REQUIRED TO CHANGE SYSTEM TO HEAVY ALCOHOL SERVICE USING 51-PC171B ONLY.
4. REF MFD 2342EE510013002-D204

REV. NO.	DATE	REVISION	DR. / CH.	APP. E & I	APP. PR ENG	APP. MOSSGAS
13	18/01/93	PLANT MODIFICATION INCORPORATED	R.T. / J.C.			

DRAWING NO.	REFERENCE DRAWING DESCRIPTION
2342-EE7300-NQ101-D***	DCS LOGIC DIAGRAM
2342-EE7300-QZ005-D010	FIRE FIGHTING LAYOUT
2342-ZZ0000-13002-D000	FLOW DIAGRAM LEGEND

PRODUCED ON MOSSCAD
NO ORIGINAL AVAILABLE , ALL FUTURE REVISIONS TO BE DONE ON CAD

DRAWN BY: S.V. SIMCOX
CHECKED BY / DESIGN SUPV'R.: D.H. DUNCAN
DESIGN ENG. / LEAD ENG.: P.H OLIVIER
PROFESSIONAL ENG. & NO.: D.W. BROADHURST
SYNFUELS: N. WILLEMSE
MOSSREF: S.F.J. HERBST

MOSSGAS (PROPRIETARY) LIMITED (EIENDOMS) BEPERK
MOSSELBAY ONSHORE OPERATIONS

UNIT 73 RAIL & ROAD RECEIPTS & DESPATCHES
MECHANICAL FLOW DIAGRAM
RAIL TANKCAR FILLING
PETROL B/S 93 (BAY 6)

SCALE	PROJECT NO.	PLANT	UNIT	AREA	DOC. CAT. NO.		IDENT.	SERIAL NO.	REV.	STATUS
NTS	2342	EE	73	00	13002	**	D	108	13	

E:/UNIT73/13002/D108.DGN

FORMAT: E:\DRAWSHTS\A1MOSS.DGN
A1 DRAWING FORM

PLANT NORTH

73-SF-101
FILTER/SEPARATOR

DESIGN FLOW RATE : 276 m3/hr
DESIGN PRESSURE : 1800 kPa
DESIGN TEMPERATURE : 65 °C
INSULATION : NIL

73-SF-106
STRAINER/AIR ELIMINATOR

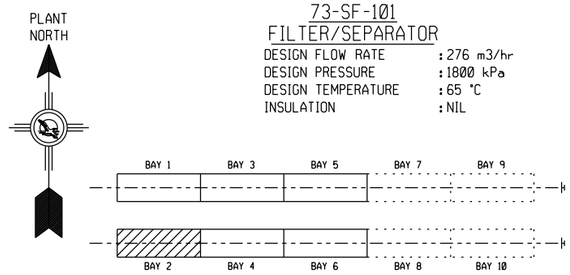
DESIGN FLOW RATE : 138 m3/hr
DESIGN PRESSURE : 1800 kPa
DESIGN TEMPERATURE : 65 °C

73-MM-107
PRODUCT POSITIVE DISPLACEMENT METER AND CONTROL

DESIGN FLOW RATE : 138 m3/hr
DESIGN PRESSURE : 1800 kPa
DESIGN TEMPERATURE : 65 °C

73-MA-101
LOADING ARM - ALCOHOL

DESIGN FLOW RATE : 138 m3/hr
DESIGN PRESSURE : 1800 kPa
DESIGN TEMPERATURE : 65 °C



KEY PLAN

NOTES:

1. THE DRAINS SHOWN TERMINATE IN THE TANK FARM DRAIN SYSTEM.
2. VALVES TO HAVE RISING STEMS.
3. REFER TO MFD. 2342-EE5100-13002-••-D210
4. REFER TO MFD 2342-EE7300-13002-••-D112
5. BOTTOM LOADING ARM (INSTALLATION)

NOTE:
THIS DRAWING PREVIOUSLY NUMBERED 2342-EE7300-13002••D106

REV. NO.	DATE	REVISION	DR. / CH.	APP. E & I	APP. PR ENG	APP. MOSSGAS	DRAWING NO.	REFERENCE DRAWING DESCRIPTION
14	29/11/23	REVISED AS PER P073.1076	LL / E.W	RA	SM	KM		
13	07/05/19	REVISED AS PER P051.1278	NN / MP	JvA	MP/FS	FVB	2342-EE7300-NG101-D•••	DCS LOGIC DIAGRAM
12	18/01/95	PLANT MODIFICATION INCORPORATED	RT / JC				2342-EE7300-0Z005-D010	FIRE FIGHTING LAYOUT
							2342-ZZ0000-13002-D000	FLOW DIAGRAM LEGEND

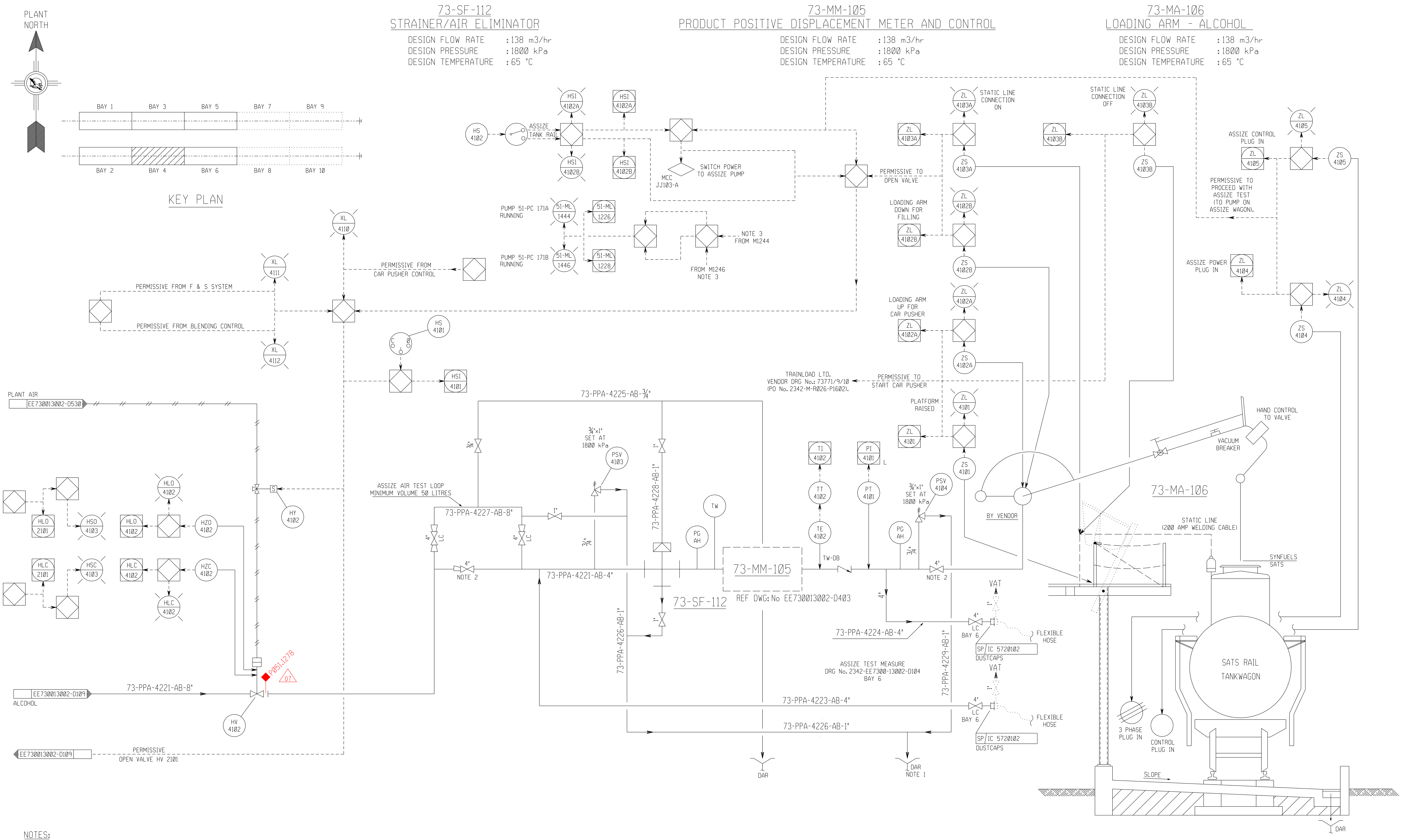
PRODUCED ON CAD
NO ORIGINAL AVAILABLE , ALL FUTURE REVISIONS TO BE DONE ON CAD

DRAWN BY: S.V. SIMCOX
CHECKED BY / DESIGN SUPV'R.: D.H. DUNCAN
DESIGN ENG. / LEAD ENG.: P.H OLIVIER
PROFESSIONAL ENG. & NO.: D.W. BROADHURST
SYNFUELS: N. WILLEMSE
MOSSREF: S.F.J. HERBST

MOSSGAS (PROPRIETARY) LIMITED (EIENDOMS) BEPERK
MOSSELBAY ONSHORE OPERATIONS

UNIT 73 RAIL & ROAD RECEIPTS & DESPATCHES MECHANICAL FLOW DIAGRAM RAIL TANKCAR FILLING ALCOHOL PRODUCT (BAY 2)

SCALE	SIZE	PROJECT NO.	PLANT	UNIT	AREA	DOC. CAT. NO.	DCNT.	SERIAL NO.	REV.	STATUS
NTS	A1	2342	EE	73	00	13002	**	D109	14	



73-SF-112
STRAINER/AIR ELIMINATOR
DESIGN FLOW RATE :138 m3/hr
DESIGN PRESSURE :1800 kPa
DESIGN TEMPERATURE :65 °C
73-MM-105
PRODUCT POSITIVE DISPLACEMENT METER AND CONTROL
DESIGN FLOW RATE :138 m3/hr
DESIGN PRESSURE :1800 kPa
DESIGN TEMPERATURE :65 °C
73-MA-106
LOADING ARM - ALCOHOL
DESIGN FLOW RATE :138 m3/hr
DESIGN PRESSURE :1800 kPa
DESIGN TEMPERATURE :65 °C
PLANT NORTH
BAY 1
BAY 3
BAY 5
BAY 7
BAY 9
BAY 2
BAY 4
BAY 6
BAY 8
BAY 10
KEY PLAN
HS 4102
ASSIZE TANK RAIL
HSI 4102A
HSI 4102B
SWITCH POWER TO ASSIZE PUMP
MCC JJ103-A
PUMP 51-PC 171A RUNNING
51-ML 1444
51-ML 1226
PUMP 51-PC 171B RUNNING
51-ML 1446
51-ML 1228
NOTE 3 FROM M1244
FROM M1246 NOTE 3
PERMISSIVE TO OPEN VALVE
XL 4110
PERMISSIVE FROM CAR PUSHER CONTROL
XL 4111
PERMISSIVE FROM F & S SYSTEM
PERMISSIVE FROM BLENDING CONTROL
XL 4112
HS 4101
C
O
HSI 4101
ZL 4103A
STATIC LINE CONNECTION ON
ZS 4103A
STATIC LINE CONNECTION OFF
ZL 4103B
ZS 4103B
ZL 4102B
LOADING ARM DOWN FOR FILLING
ZS 4102B
ZL 4102A
LOADING ARM UP FOR CAR PUSHER
ZS 4102A
TRAINLOAD LTD.
VENDOR DRG No.: 73771/9/10
(PO No. 2342-M-R026-P1602).
PERMISSIVE TO START CAR PUSHER
PLATFORM RAISED
ZL 4101
ZS 4101
ZL 4105
ASSIZE CONTROL PLUG IN
ZS 4105
PERMISSIVE TO PROCEED WITH ASSIZE TEST (TO PUMP ON ASSIZE WAGON).
ASSIZE POWER PLUG IN
ZL 4104
ZS 4104
PLANT AIR
EE730013002-D530
HLO 2101
HSO 4103
HLO 4102
HZO 4102
HLC 2101
HSC 4103
HLC 4102
HZC 4102
HY 4102
S
P051.1278
07
73-PPA-4221-AB-8"
EE730013002-D109
ALCOHOL
HV 4102
EE730013002-D109
PERMISSIVE
OPEN VALVE HV 2101
73-PPA-4225-AB-3/4"
3/4"
3/4"x1" SET AT 1800 kPa
PSV 4103
1"
73-PPA-4228-AB-1"
ASSIZE AIR TEST LOOP MINIMUM VOLUME 50 LITRES
73-PPA-4227-AB-8"
4" LC
NOTE 2
73-PPA-4221-AB-4"
PG AH
TW
73-MM-105
REF DWG: No EE730013002-D403
73-SF-112
73-PPA-4226-AB-1"
TI 4102
TT 4102
TE 4102
TW-DB
PI 4101
L
PT 4101
PSV 4104
3/4"x1" SET AT 1800 kPa
73-PPA-4224-AB-4"
ASSIZE TEST MEASURE
DRG No. 2342-EE7300-13002-D104
BAY 6
73-PPA-4229-AB-1"
73-PPA-4223-AB-4"
73-PPA-4226-AB-1"
DAR
DAR NOTE 1
VAT
LC BAY 6
FLEXIBLE HOSE
SP IC 5720102
DUSTCAPS
BY VENDOR
73-MA-106
HAND CONTROL TO VALVE
VACUUM BREAKER
STATIC LINE (200 AMP WELDING CABLE)
SYNFUELS SATS
SATS RAIL TANKWAGON
3 PHASE PLUG IN
CONTROL PLUG IN
SLOPE
DAR

NOTES:

1. THE DRAINS SHOWN TERMINATE IN THE TANK FARM DRAIN SYSTEM.
2. VALVES TO HAVE RISING STEMS.
3. REFER TO MFD. 2342-EE7300-13002-**-D109

REV. NO.	DATE	REVISION	DR. / CH.	APP. E & I	APP. PR ENG	APP. MOSSGAS
07	19/01/96	REVISED AS PER P051.1278 & PLANT MODIFICATION INCORPORATED	DG			

DRAWING NO.	REFERENCE DRAWING DESCRIPTION
2342-EE7300-NQ101-D***	DCS LOGIC DIAGRAM
2342-EE7300-QZ005-D010	FIRE FIGHTING LAYOUT
2342-ZZ0000-13002-D000	FLOW DIAGRAM LEGEND

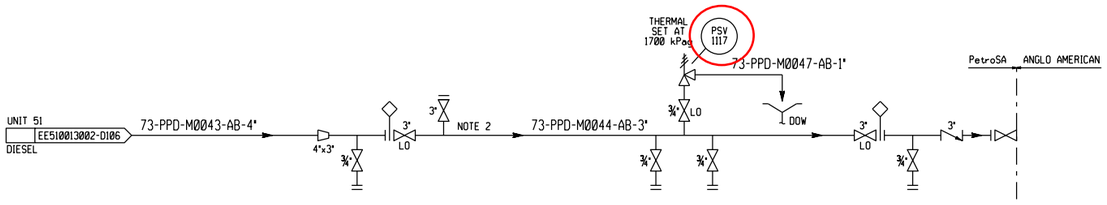
PRODUCED ON MOSSCAD
NO ORIGINAL AVAILABLE , ALL FUTURE REVISIONS TO BE DONE ON CAD

DRAWN BY: F. SNYMAN
CHECKED BY / DESIGN SUPV'R.: D.H. DUNCAN
DESIGN ENG. / LEAD ENG.: D.K. SCHAFFRATH
PROFESSIONAL ENG. & NO.: D.W. BROADHURST
SYNFUELS:
MOSSREF: S.F.J. HERBST

MOSSGAS (PROPRIETARY) LIMITED (EIENDOMS) BEPERK
MOSSELBAY ONSHORE OPERATIONS

UNIT 73 RAIL & ROAD RECEIPTS & DESPATCHES
MECHANICAL FLOW DIAGRAM
RAIL TANKCAR FILLING
ALCOHOL (BAY 4)

SCALE	SIZE	PROJECT NO.	PLANT	UNIT	AREA	DOC. CAT. NO.		IDENT.	SERIAL NO.	REV.	STATUS
NTS	A1	2342	EE	73	00	13002	**	D	112	07	



NOTES:

1. LINE FROM UNIT 73, DIESEL BOTTOM LOADING POINT (TEMPORARY)
2. LINE TO BE REMOVED BEFORE COMMISIONING OF THE MAIN LINE

FORMAT: E:\DRAWSHTS\AMOSS.DGN

2342-ZZ0000-13002-D000 - FLOW DIAGRAM LEGEND

01	18/03/2009	RT	MP	MX	FVB	ISSUED AS PER P051.1139

RIA THERON
18/03/2009
M.PRETORIUS
27/03/2009
XABA MBUSO
30/03/2009
F.V.BARTLETT
30/03/2009

UNIT 73 RAIL & ROAD RECEIPTS & DESPATCHES
TEMPORARY DIESEL LOADING POINT
MECHANICAL FLOW DIAGRAM

NTS P051.1139 73-13002-**-D113 01

E:/UNIT73/13002/D113.DGN

PLANT NORTH

73-SF-115
FILTER/SEPARATOR

DESIGN FLOW RATE: 81 m³/hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65° C
INSULATION: NIL
TRIM: 73-PID-M0061-AB

73-SF-117
STRAINER/AIR ELIMINATOR

DESIGN FLOW RATE: 81 m³/hr
DESIGN PRESSURE: 1900 kPa
DESIGN TEMPERATURE: 100° C

73-MM-111
PRODUCT POSITIVE DISPLACEMENT METER AND CONTROL

DESIGN FLOW RATE: 90 m³/hr
DESIGN PRESSURE: 1700 kPa
DESIGN TEMPERATURE: 65° C

73-MA-107
LOADING RACK

GENERAL

BAY 1 BAY 3 BAY 5 BAY 7 BAY 9
BAY 2 BAY 4 BAY 6 BAY 8 BAY 10

KEY PLAN

HS 7102 — ASSIZE TANK RAIL — HSI 7102A / HSI 7102B — AND — MCC JJ103-A — SWITCH POWER TO ASSIZE PUMP

PUMP 51-PC187 RUNNING — 51-ML 2187 — NOTE 3

PERMISSIVE TO OPEN VALVE

ZL 7103A — STATIC LINE CONNECTION ON — ZS 7103A

ZL 7103B — STATIC LINE CONNECTION OFF — ZS 7103B

ASSIZE CONTROL PLUG IN — ZL 7105

PERMISSIVE TO PROCEED WITH ASSIZE TEST (TO PUMP ON ASSIZE WAGON).

BAY 6 ZS6105 EE730013002-D108

ASSIZE POWER PLUG IN — ZL 7104

BAY 6 ZS6104 EE730013002-D108

XL 7110 — PERMISSIVE FROM CAR PUSHER CONTROL

XL 7111 — PERMISSIVE FROM F & S SYSTEM

PERMISSIVE FROM BLENDING CONTROL NOTE 3

XL 7112

HS 7101 — HSI 7101

PERMISSIVE TO START CAR PUSHER → TRAINLOAD LTD. VENDOR DRG No.: 73771/9/10 (PO No. 2342-M-R026-P1602).

INSTRUMENT AIR

HY 7101

HLO 7101 — HZO 7101 — HLC 7101 — HZC 7101

¾"x1" SET AT 1700 kPa — PSV 1111 — PSV 1112

73-PID-M0057-AB-1"

¾"x1" SET AT 1700 kPa — PSV 1109

ASSIZE AIR TEST LOOP MINIMUM VOLUME 50 LITRES

73-PID-M0035-AB-8"

8"x4" 4" LC 6"x4" — 8"x4" 4" LC — ¾" LO

6"x4" 4" NOTE 2

73-PID-M0035-AB-4"

73-PID-M0057-AB-1"

PG 7102

73-MM-111

REF DWG: No 73-13002-•••-D406

TW-DA 4"

TI 7102 — TT 7102 — TE 7102

PI 7101 — PT 7101 — PG 7103

¾"x1" SET AT 1700 kPa — PSV 1113 — ¾" LO

4" NOTE 2

73-PID-M0035-AB-4"

1"x¾" 1"

73-SF-117

73-PID-M0055-AB-1"

73-PID-M0055-AB-1"

73-PID-M0055-AB-1"

DCW

DCW NOTE 1

UNIT 44 UNIT 73 BL

UNIT 44 44-PID-M0422-AB-6" EE440013002-D608 DIESEL

6" LO 73-PID-M0034-AB-6"

1" ¾" FC HV 7101

6" NOTE 2

PG 7101 — DPG 7101 — PG 7104 — ¾"

6" NOTE 2

73-PID-M0050-AB-1"

73-SF115

73-DCW-M0058-KA-4"

DCW NOTE 1

73-MA-107 GENERAL

STATIC LINE (200 AMP WELDING CABLE)

ASSIZE TEST MEASURE DRG No. 2342-EE7300-13002-D104 BAY 7

4" SP 57511348

ROAD TANKER CBS 007

SLOPE

DCW

NOTES:

1. THE DRAINS SHOWN TERMINATE IN THE TANK FARM DRAIN SYSTEM.
2. VALVES TO HAVE RISING STEMS.
3. REF MFD 51-13002-D179

NOTES	REV	DATE	DRAWN	CHK. DATE	ENG. DATE	APP. DATE	REVISION DESCRIPTION
	04	14/09/2015	WB	LM	FS	FVB	REVISED AS PER GENERAL
	03	30/01/2015	DN/MP	JvA	FS	FVB	REVISED AS PER P073.1052 (TO BE ON D115 BAY 8)
	02	21/02/2012	BvdM	MP	MX	FVB	APPROVED FOR CONSTRUCTION AS PER P073.1033
	01	25/06/2009	RT	MP	SM	FVB	APPROVED FOR CONSTRUCTION AS PER P073.1022

PRODUCED ON CAD
NO ORIGINAL AVAILABLE ,ALL FUTURE REVISIONS TO BE DONE ON CAD

DESIGNER : H.WALKER
DATE : 26/01/2010

DRAWN BY : R.THERON
DATE : 05/06/2009
CHECKED : M.PRETORIUS
DATE : 26/01/2010
ENGINEER : S.MKHIZE
DATE : 26/01/2010
APPROVED : F.V.BARTLETT
DATE : 26/01/2010
PROJECTION

PetroSA
THE PETROLEUM OIL & GAS CORPORATION OF SOUTH AFRICA (SOC) LTD

UNIT 73 RAIL & ROAD RECEIPTS & DESPATCHES
INTERMEDIATE DIESEL (ASH H) BAY 7
RAIL/ROAD TANKER FILLING
MECHANICAL FLOW DIAGRAM

SCALE	SIZE	PROJECT NUMBER	DRAWING NUMBER	REV
NTS	A1	P073.1022	73-13002-**-D114	04

E:/UNIT73/13002/D114.DGN

PLANT NORTH

73-SF-116 FILTER/SEPARATOR

DESIGN FLOW RATE: 81 m³/hr
DESIGN PRESSURE: 1800 kPa
DESIGN TEMPERATURE: 65° C
INSULATION: NIL
TRIM: 73-PIK-M0062-AB

73-SF-118 STRAINER/AIR ELIMINATOR

DESIGN FLOW RATE: 81 m³/hr
DESIGN PRESSURE: 1900 kPa
DESIGN TEMPERATURE: 100° C

73-MM-112 PRODUCT POSITIVE DISPLACEMENT METER AND CONTROL

DESIGN FLOW RATE: 90 m³/hr
DESIGN PRESSURE: 1700 kPa
DESIGN TEMPERATURE: 65° C

73-MA-108 LOADING RACK

P051.1278
DESIGN FLOW RATE: 138 m³/hr
DESIGN PRESSURE: 1600 kPa
DESIGN TEMPERATURE: 65° C

BAY 1 BAY 3 BAY 5 BAY 7 BAY 9
BAY 2 BAY 4 BAY 6 BAY 8 BAY 10

KEY PLAN

HS 8102 — ASSIZE TANK RAIL — HSI 8102A / HSI 8102B — AND — MCC JJ103-A — SWITCH POWER TO ASSIZE PUMP
PUMP 51-PC196 RUNNING — 51-ML 2196 — NOTE 3
PERMISSIVE TO OPEN VALVE
ZL 8103A — STATIC LINE CONNECTION ON — ZS 8103A
ZL 8103B — STATIC LINE CONNECTION OFF — ZS 8103B
ASSIZE CONTROL PLUG IN — ZL 8105
PERMISSIVE TO PROCEED WITH ASSIZE TEST (TO PUMP ON ASSIZE WAGON).
BAY 6 ZS6105 EE730013002-D108
ASSIZE POWER PLUG IN — ZL 8104
BAY 6 ZS6104 EE730013002-D108
XL 8110 — PERMISSIVE FROM CAR PUSHER CONTROL
XL 8111 — PERMISSIVE FROM F & S SYSTEM
PERMISSIVE FROM BLENDING CONTROL NOTE 3
XL 8112
HS 8101 — HSI 8101
PERMISSIVE TO START CAR PUSHER — TRAINLOAD LTD. VENDOR DRG No.: 73771/9/10 (PO No. 2342-M-R026-P1602).
TO BAY 5 ULP 93 — 3 EE730013002-D106 — BAY 8 STATIC LINE ON
TO BAY 1 DIESEL — 1 EE730013002-D105 — BAY 8 STATIC LINE ON

INSTRUMENT AIR
HY 8101
HLO 8101 / HZO 8101 / HLC 8101 / HZC 8101
73-PIK-M0056-AB-1"
ASSIZE AIR TEST LOOP MINIMUM VOLUME 50 LITRES
73-PIK-M0037-AB-8"
¾"x1" SET AT 1700 kPa — PSV 1110
¾"x1" SET AT 1700 kPa — PSV 1114
¾"x1" SET AT 1700 kPa — PSV 1115
8"x4" 4" LC 6"x4"
¾" LO
6"x4" 4" NOTE 2
73-PIK-M0037-AB-4"
73-PIK-M0056-AB-1"
TI 8102 — TT 8102 — TE 8102
PI 8101 — PT 8101 — PG 8103
PG 8102
¾"x1" SET AT 1700 kPa — PSV 1116
TW-DA 4"
73-MM-112
REF DWG: No 73-13002-•••-D407
73-SF-118
73-PIK-M0054-AB-1"
1"x¾" 1"
73-PIK-M0037-AB-4"
DCW
NOTE 1
DPG 8101
PG 8101
PG 8104
73-PIK-M0051-AB-1"
73-SF 116
UNIT 44 — UNIT 73
UNIT 44 44-PIK-M0423-AB-6" EE440013002-D608 DIESEL
73-PIK-M0036-AB-6"
6" LO ¾" FC HV 8101
NOTE 2
73-DCW-M0058-KA-4"
NOTE 4
73-MA-108
P051.1278
STATIC LINE (200 AMP WELDING CABLE)
ASSIZE TEST MEASURE DRG No. 2342-EE7300-13002-D104 BAY 8
4" SP 5751348
ROAD TANKER
SLOPE
VAT 1" — 4" 4"x3" LC — FLEXIBLE HOSE — SP IC 5720102 DUSTCAPS

P051.1278
5 73-13002-D109 — KERO TO ROAD TANKER (BAY 8)
4 EE730013002-D106 — ULP 93 FROM BAY 5
2 EE730013002-D105 — DIESEL FROM BAY 1
73-PPA-M0065-AB-4"
73-PPK-4304-AB-4"
73-PPD-4104-AB-4"

NOTES:
1. THE DRAINS SHOWN TERMINATE IN THE TANK FARM DRAIN SYSTEM.
2. VALVES TO HAVE RISING STEMS.
3. REF MFD 51-13002-D179
4. BOTTOM LAODING ARM

REV	DATE	DRAWN	CHK. DATE	ENG. DATE	APP. DATE	REVISION DESCRIPTION
04	22/01/2020	NN DRM	JvA	FS/PM	FVB	REVISED AS PER P051.1278
03	14/09/2015	WB	LM	FS	FVB	REVISED AS PER GENERAL
02	30/01/2015	DN/MP	JvA	FS	FVB	REVISED AS PER P073.1052
01	25/06/2009	RT	MP	SM	FVB	APPROVED FOR CONSTRUCTION AS PER P073.1022

PRODUCED ON CAD
NO ORIGINAL AVAILABLE .ALL FUTURE REVISIONS TO BE DONE ON CAD

DESIGNER : H.WALKER
DATE : 26/01/2010

DRAWN BY : R.THERON
DATE : 05/06/2009
CHECKED : M.PRETORIUS
DATE : 26/01/2010
ENGINEER : S.MKHIZE
DATE : 26/01/2010
APPROVED : F.V.BARTLETT
DATE : 26/01/2010
PROJECTION

PetroSA
THE PETROLEUM OIL & GAS CORPORATION OF SOUTH AFRICA (SOC) LTD

UNIT 73 RAIL & ROAD RECEIPTS & DESPATCHES MOSSPAR H BAY 8 RAIL/ROAD TANKER FILLING MECHANICAL FLOW DIAGRAM

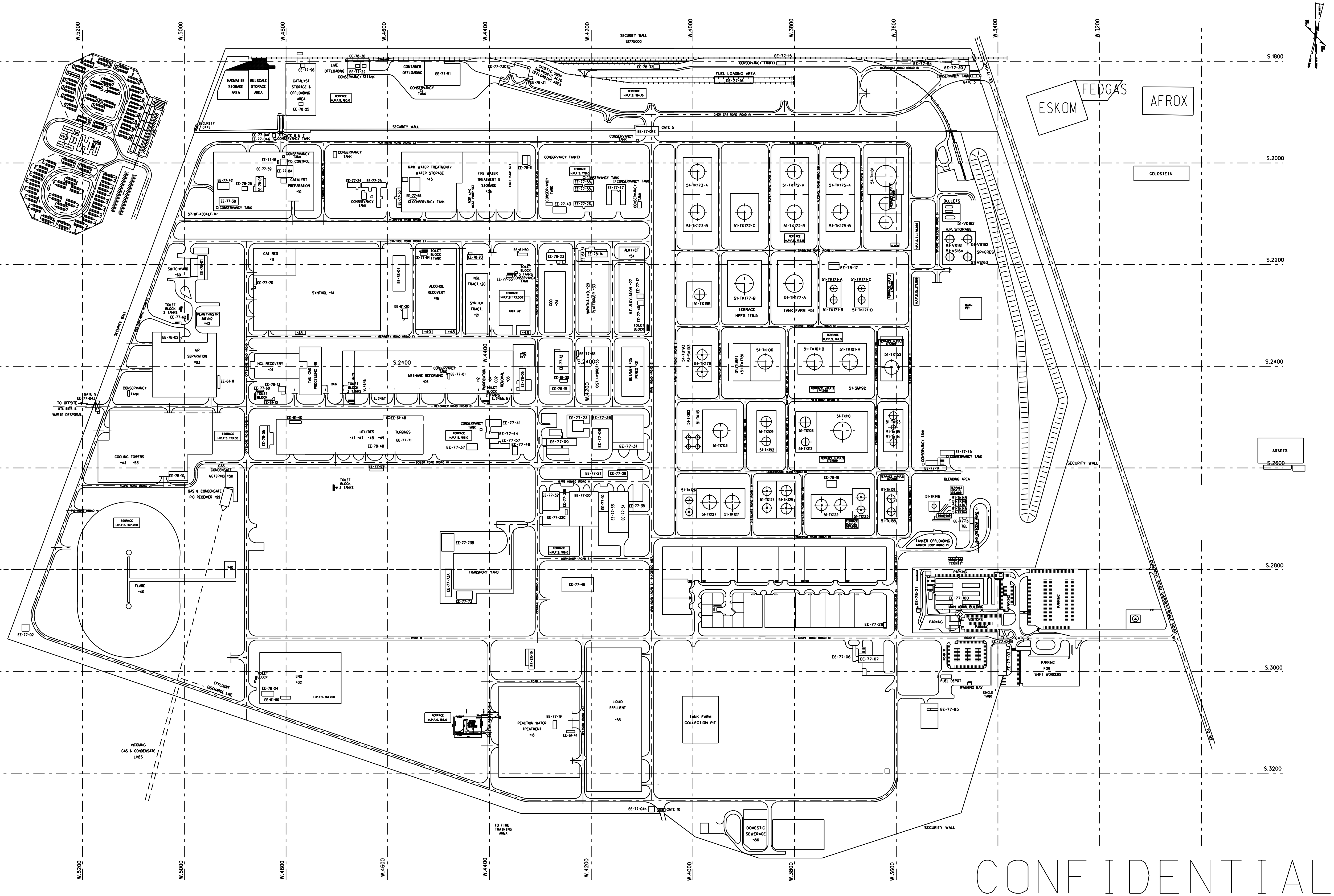
SCALE	SIZE	PROJECT NUMBER	DRAWING NUMBER	REV
NTS	A1	P073.1022	73-13002-**-D115	04

E:/UNIT73/13002/D115.DGN

FORMAT: E:\DRAWSHTS\PetroSA\bfrae.dgn

	LEVEL	TEXT SIZE	WT	COLOUR
DRAWING FRAME	LV=1		WT=2	YELLOW
ROADS.	LV=1		WT=2	YELLOW
BUILDINGS	LV=2		WT=2	RED
CONSERVANCY TANKS/TOILET BLOCKS-TANKS	LV=3	3.5x3	WT=2	WHITE
RAILWAY LINE	LV=5		WT=2	BLUE
SQUARE METERS PER AREA	LV=6		WT=5	ALL COLOURS
SECURITY WALL AND GATES	LV=36		WT=5	RED
SOUTHINGS & WESTINGS, CENTRE LINES.	LV=37	5x4.6	WT=1	WHITE
ALL ROAD NAMES	LV=38	2.52x2.52	WT=2	WHITE
ALL TEXT (UNITS, TANK NUMBERS etc.)	LV=38	3.5x3	WT=2	WHITE
ALL FIRE HYDRANTS , MONITORS AND VALVES	LV=39		WT=5	BLUE
POTABLE WATER LINES	LV=48		WT=2	LIGHT BLUE
TEMP. WATER LINES	LV=49		WT=2	RED
SEWERAGE LINES	LV=50			BROWN

UNIT	DOCUMENT NUMBER	TYPE	SERIAL NO.
72	QZ001	D	003



CONFIDENTIAL

REV.	DATE	DRAWN	CHK. DATE	ENG DATE	APP DATE	REVISION DESCRIPTION
2A	03/04 2001	RT				REDLINING IN PROGRESS
01	22/3/93	RT	JC	/	FVB	ISSUED FOR INFORMATION

NOTES

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PRODUCED ON MOSSCAD

NO ORIGINAL AVAILABLE ALL FUTURE REVISIONS TO BE DONE ON CAD

TOLERANCE INSTRUCTIONS

SURFACE ROUGHNESS ISO R468 Ra VALUES CLEAN UP TO DIMENSION 3.2 1.6 0.8

DRAWN BY : R. THERON
DATE : 29/11/93
CHECKED : J. COMBRINCK
DATE : 25/01/94
ENGINEER :
DATE :
APPROVED : FVB
DATE : 31/10/94
PROJECTION

MOSSGAS (PROPRIETARY) LIMITED (EIENDOMS) BEPERK

MOSSELBAY ONSHORE OPERATIONS

UNIT 72

OVERALL PLOTPLAN

SCALE	SIZE	PROJECT NUMBER	DRAWING NUMBER				REV.
	A0		72	QZ001	D	003	2A

ONLY ROADS AND BUILDINGS LV3,6,39,40,48,49,50 OFF