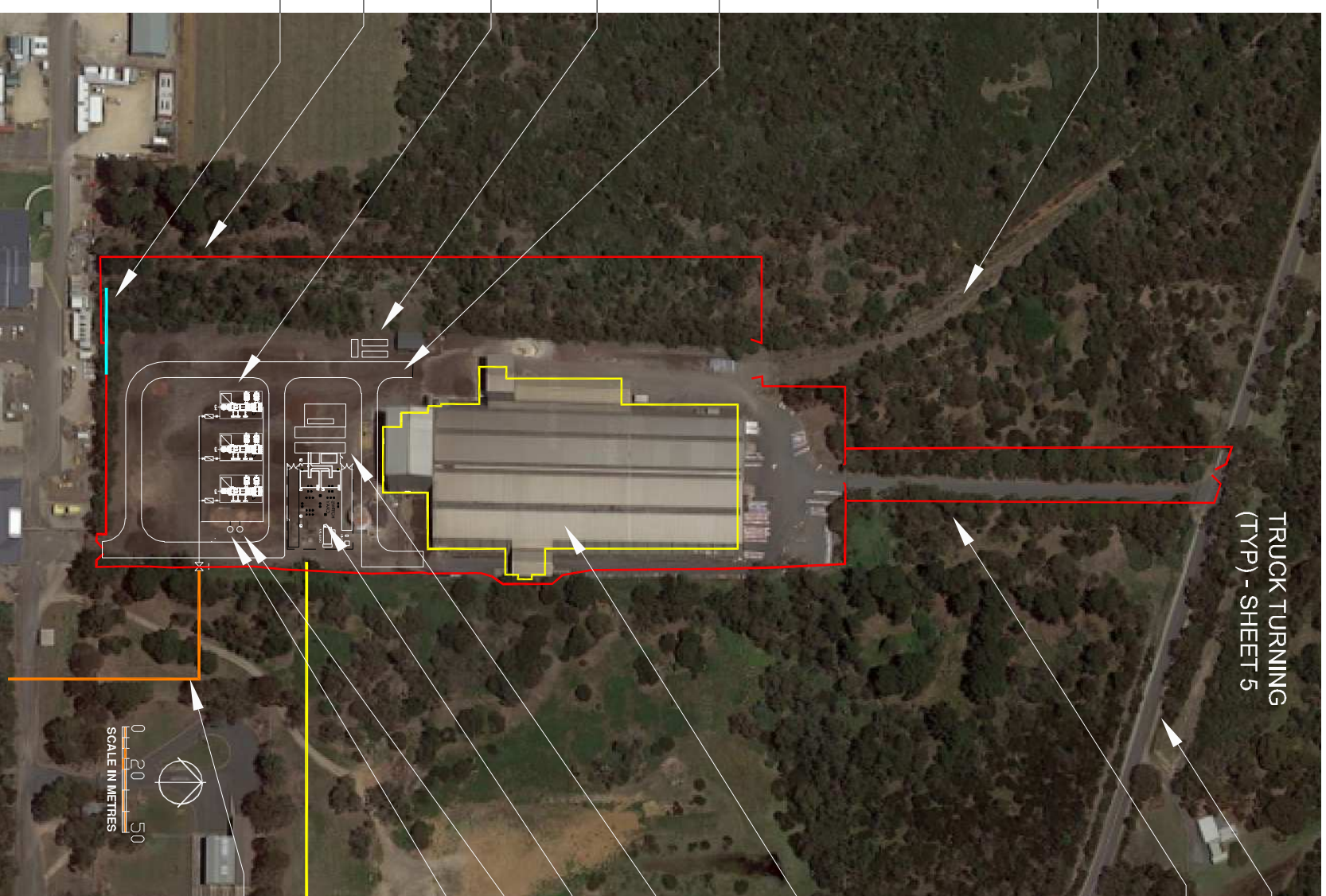


ADVERTISED PLAN



REDUNDANT RAILWAY

PROPOSED CIRCULATING ROADS FOR HGS PLANT (7.5m SEALED WIDTH)

OPERATIONS BUILDINGS

30OFF TITAN 130 TURBINE/GENERATOR SETS

PERIMETER FENCE

NOISE WALL (L=41m, H=5m)

TRUCK TURNING (TYP) - SHEET 5

BAYVIEW ROAD

CRESCO ENTRY ROAD (7.5m SEALED WIDTH)

EXISTING CRESCO BUILDING

PROPOSED ELECTRICAL EQUIPMENT BUILDING

PROPOSED SWITCH YARD

PROPOSED OILY WATER WELL (SEALED)

PROPOSED VENT

PROPOSED HGS POWERLINE ROUTE

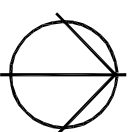
PROPOSED FUEL GAS SUPPLY FROM ESSO LIP (APPROX ROUTE)

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CIVIL DESIGN MANAGEMENT PTY LTD
 ABRN 22 071 989 938

24 MANCHESTER GROVE
 GLEN HUNTLY 3163
 0408 406 220

No	DATE	REVISION	APP'D
F	8-04-22	ISSUED FOR AUTHORITY APPL	NZ
E	7-02-22	ISSUED FOR AUTHORITY APPL	NZ
D	28-01-22	ISSUED FOR REVIEW	GK
C	21-12-21	ISSUED FOR REVIEW	GK
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FOR CONSTRUCTION	AS CONSTRUCTED	

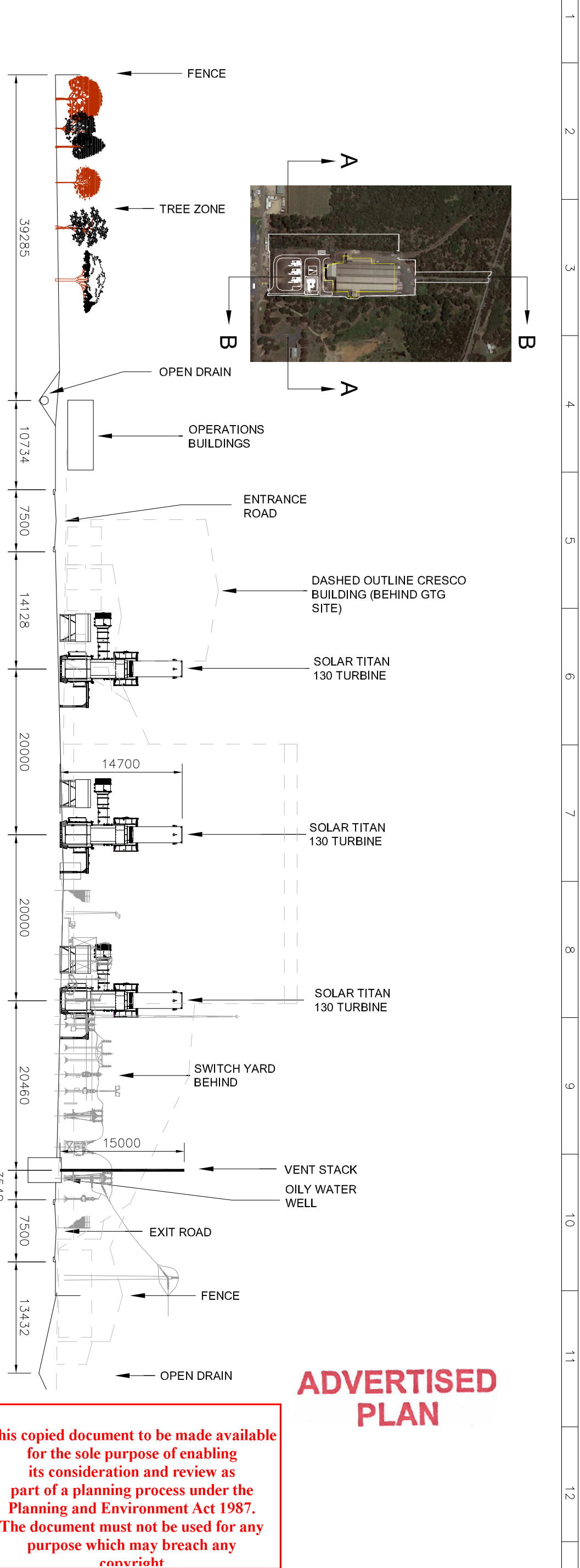
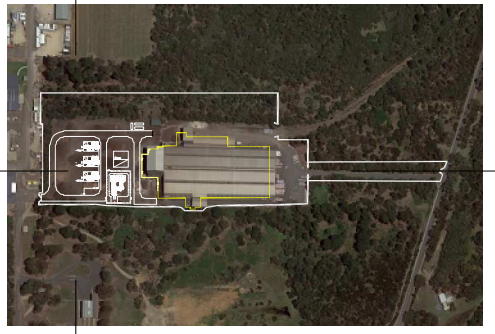
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EXXON MOBIL HASTINGS HASTINGS GENERATION SITE
SITE GENERAL ARRANGEMENT



White Technics Pty Ltd
 Unit 4, 36 New Street
 Ringwood, VIC, 3134
 Australia
 Tel: +61 3 9847 0222
 Fax: +61 3 9847 0333
 White Technics Project No 6646

FILENAME: ESSO_PP.DWG	SHEET 1 OF 18	DRAWING No.
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VIEW A-A ELEVATION LOOKING NORTH
SCALE IN METRES

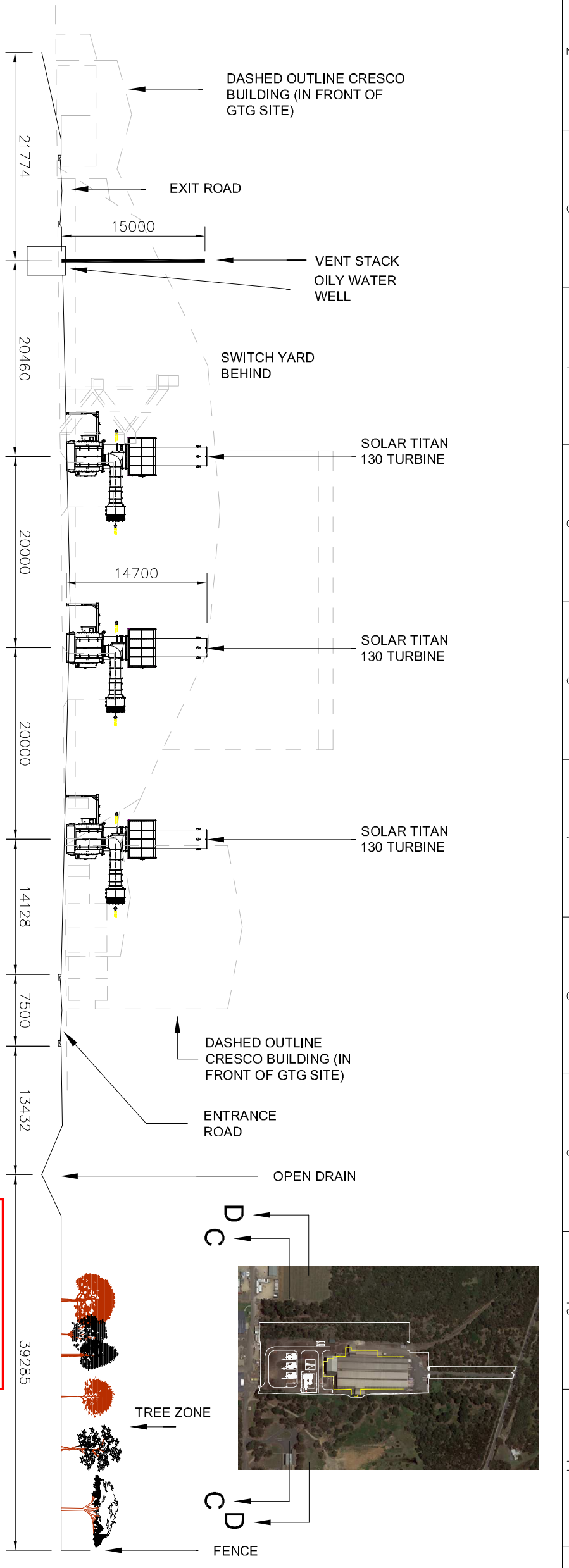
VIEW B-B ELEVATION LOOKING EAST
(WHOLE OF SITE - BAYVIEW RD TO LIP FENCE)

SCALE IN METRES

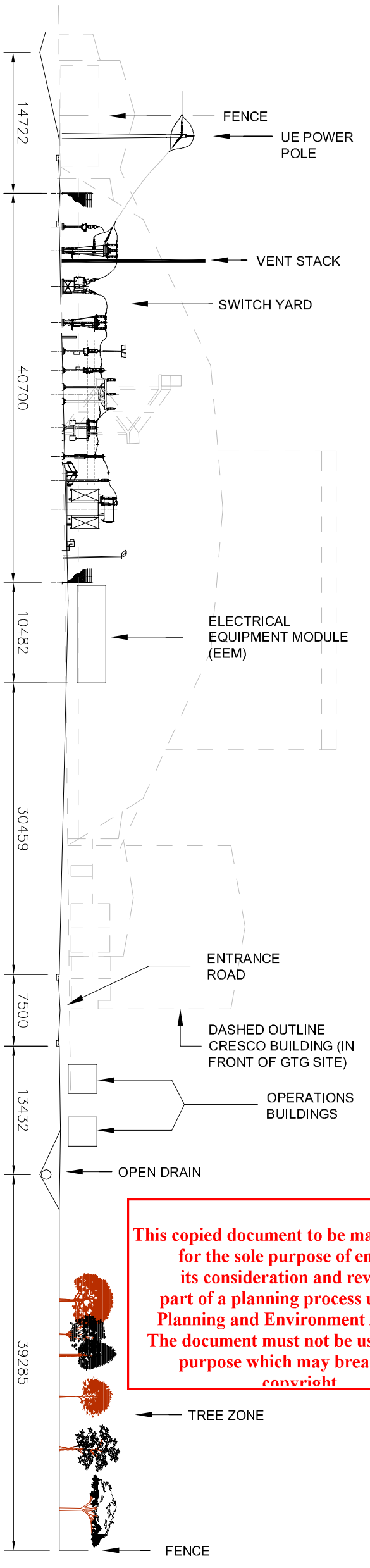
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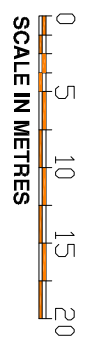
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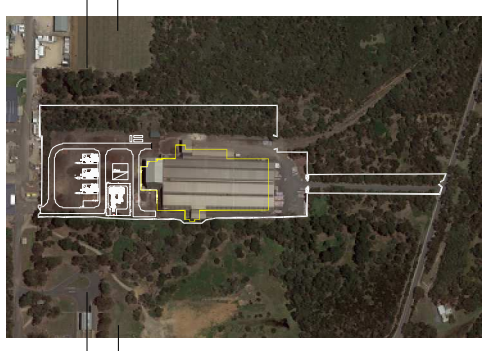
VIEW C-C ELEVATION LOOKING SOUTH
SECTION THROUGH TURBINES



VIEW D-D ELEVATION LOOKING SOUTH
SECTION THROUGH SWITCHYARD

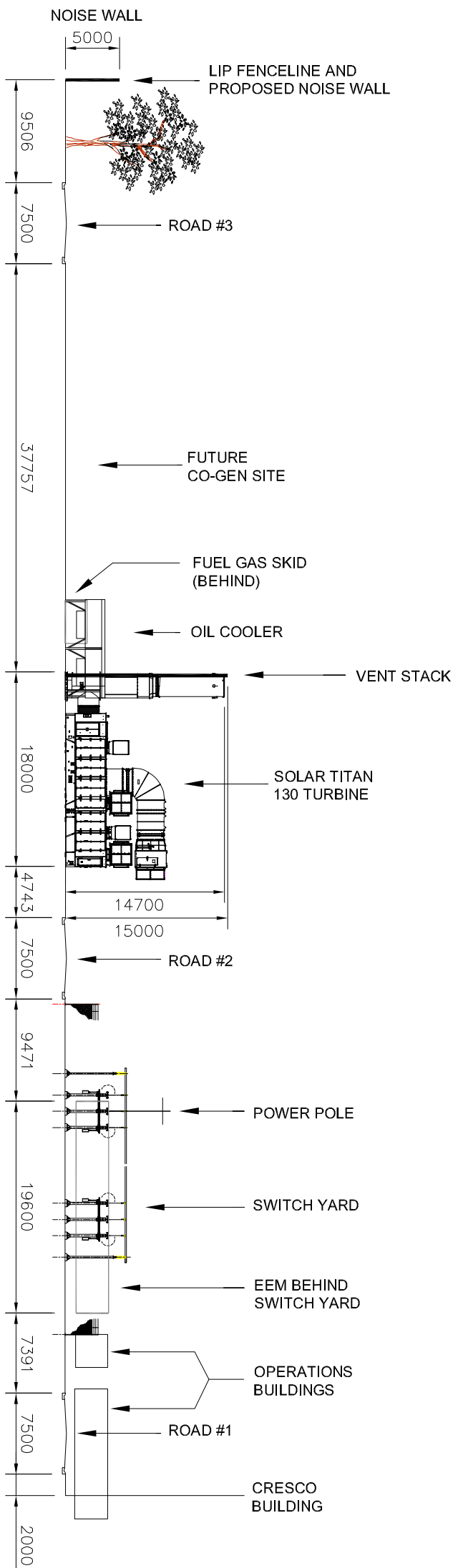


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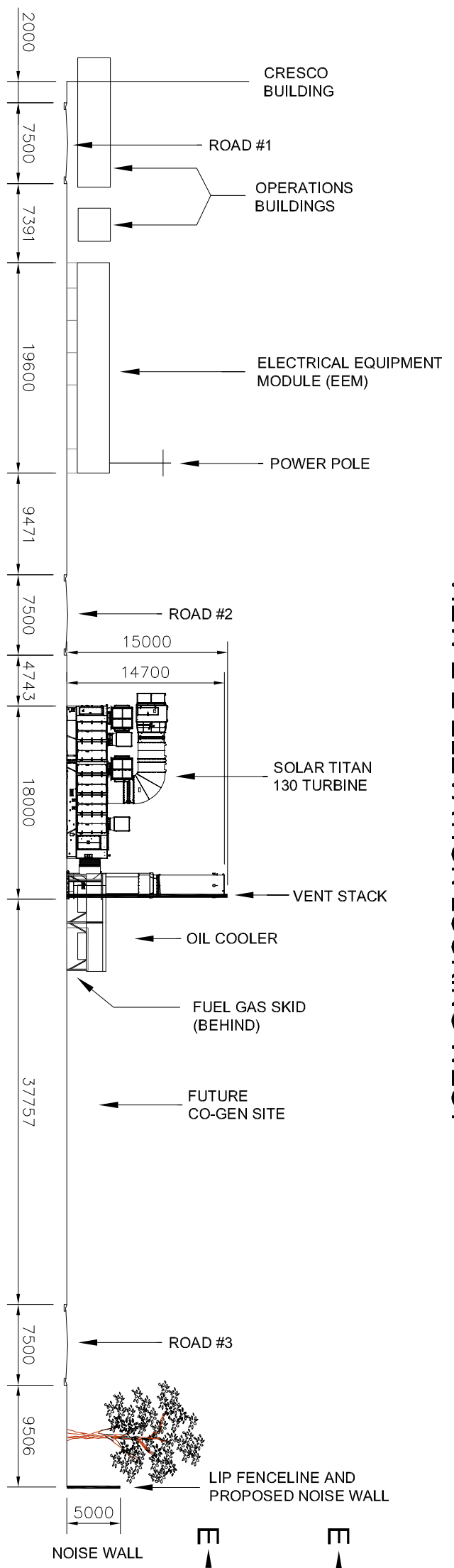


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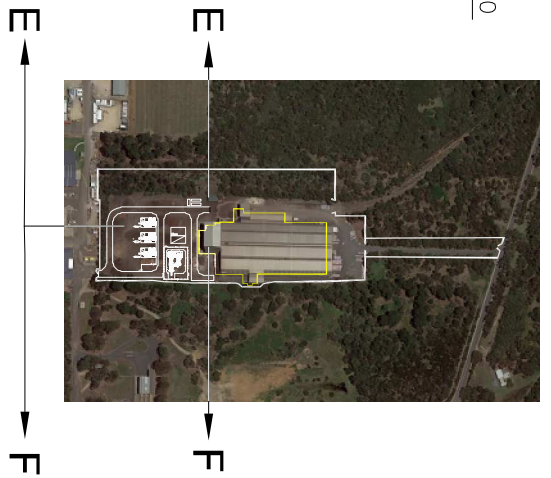
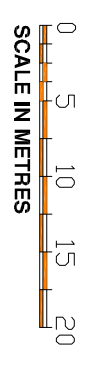
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A No		DATE		REVISION		APP'D		DATE:		DATE:		REV F	



VIEW E-E ELEVATION LOOKING WEST



VIEW F-F ELEVATION LOOKING EAST

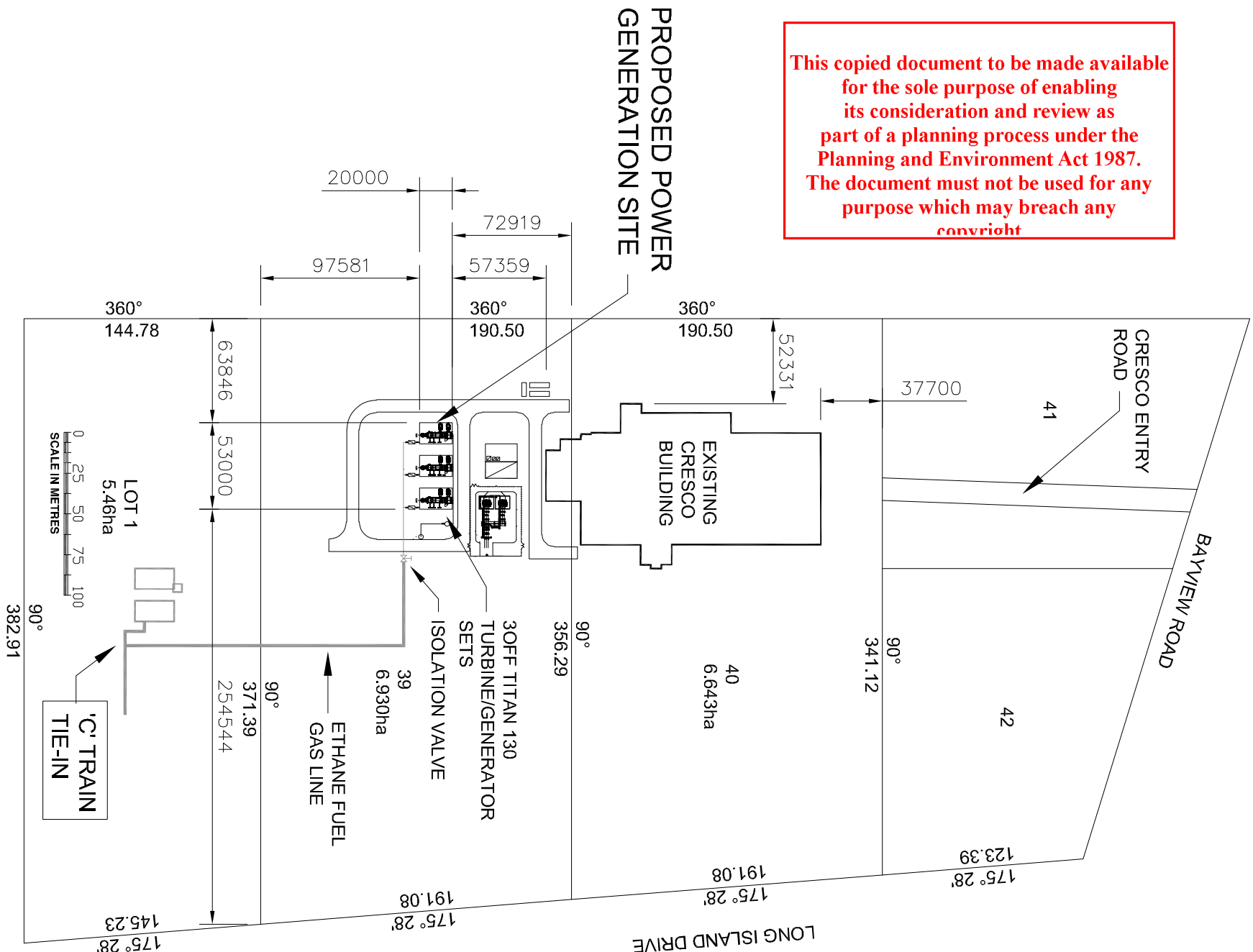


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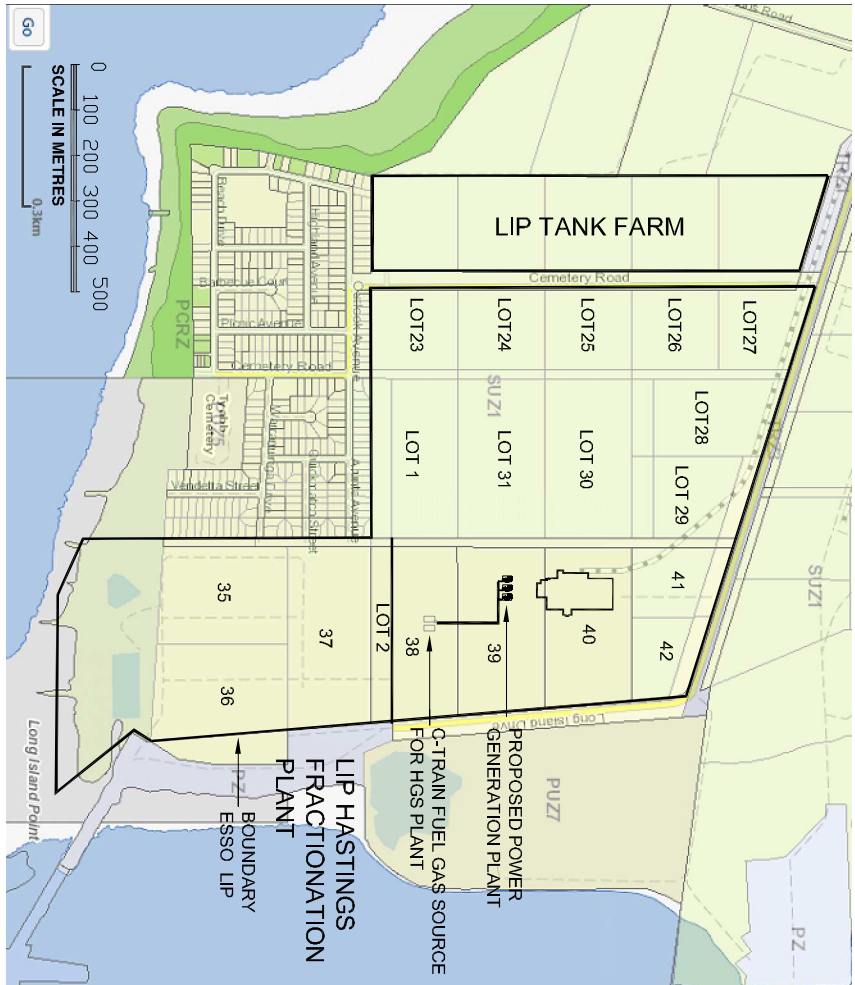
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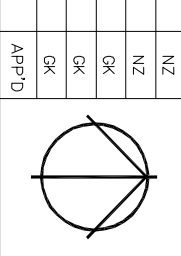
KEY PLAN ESSO TITLES HASTINGS



AERIAL PHOTO ESSO HASTINGS

CIVIL DESIGN MANAGEMENT PTY LTD
 ABN 22 071 989 998
 24 MANCHESTER GROVE
 GLEN HUNTLY 3163
 0408 406 220

No	DATE	REVISION
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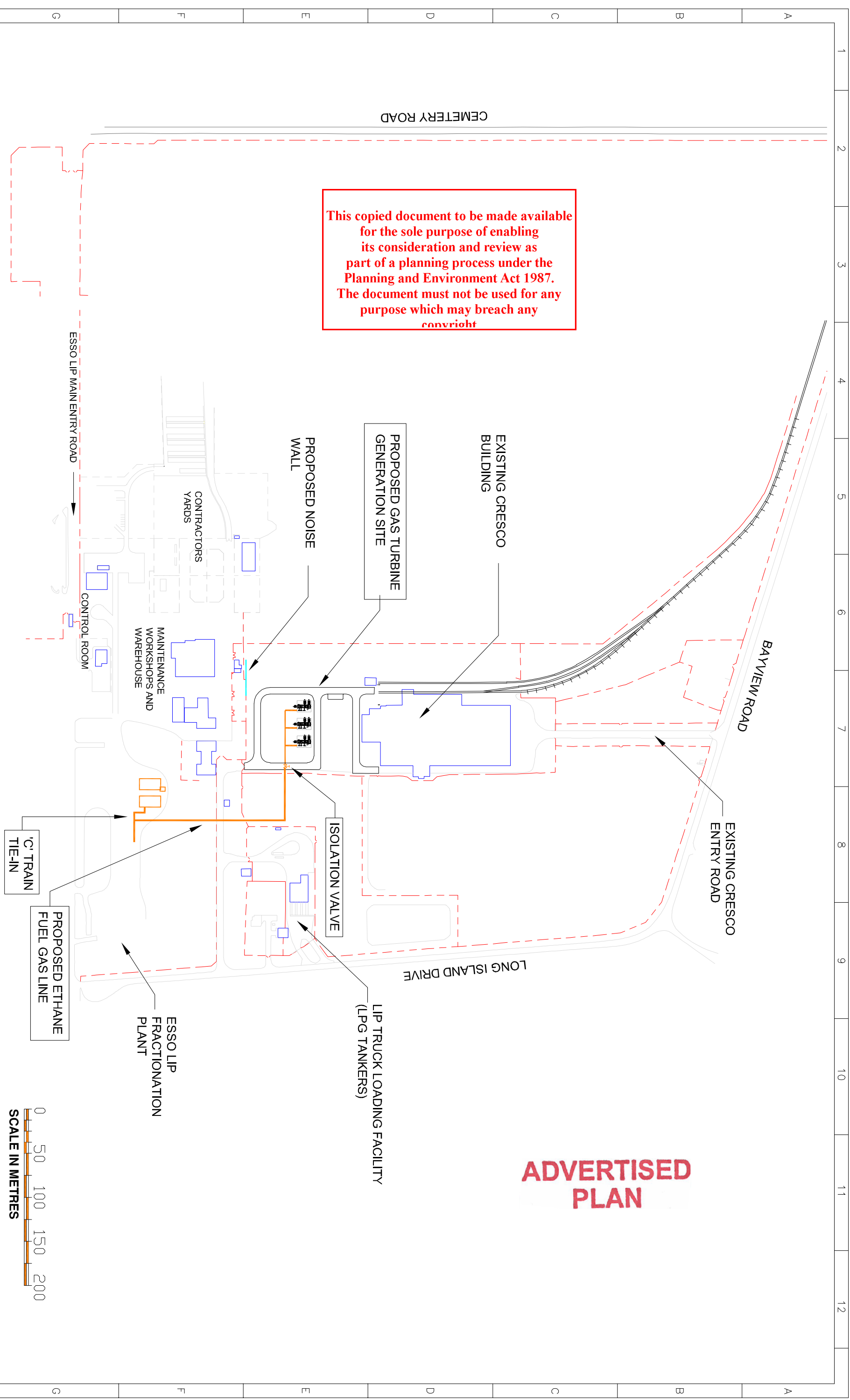


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FOR CONSTRUCTION	FOR CONSTRUCTION	DATE:

EXXON MOBIL HASTINGS HASTINGS GENERATION SITE
PROPERTY TITLE DETAILS

White Technics Pty Ltd
 Unit 4, 36 New Street
 Ringwood, VIC, 3134
 Australia
 Tel: +61 3 9847 0222
 Fax: +61 3 9847 0333
 White Technics Project No 6646

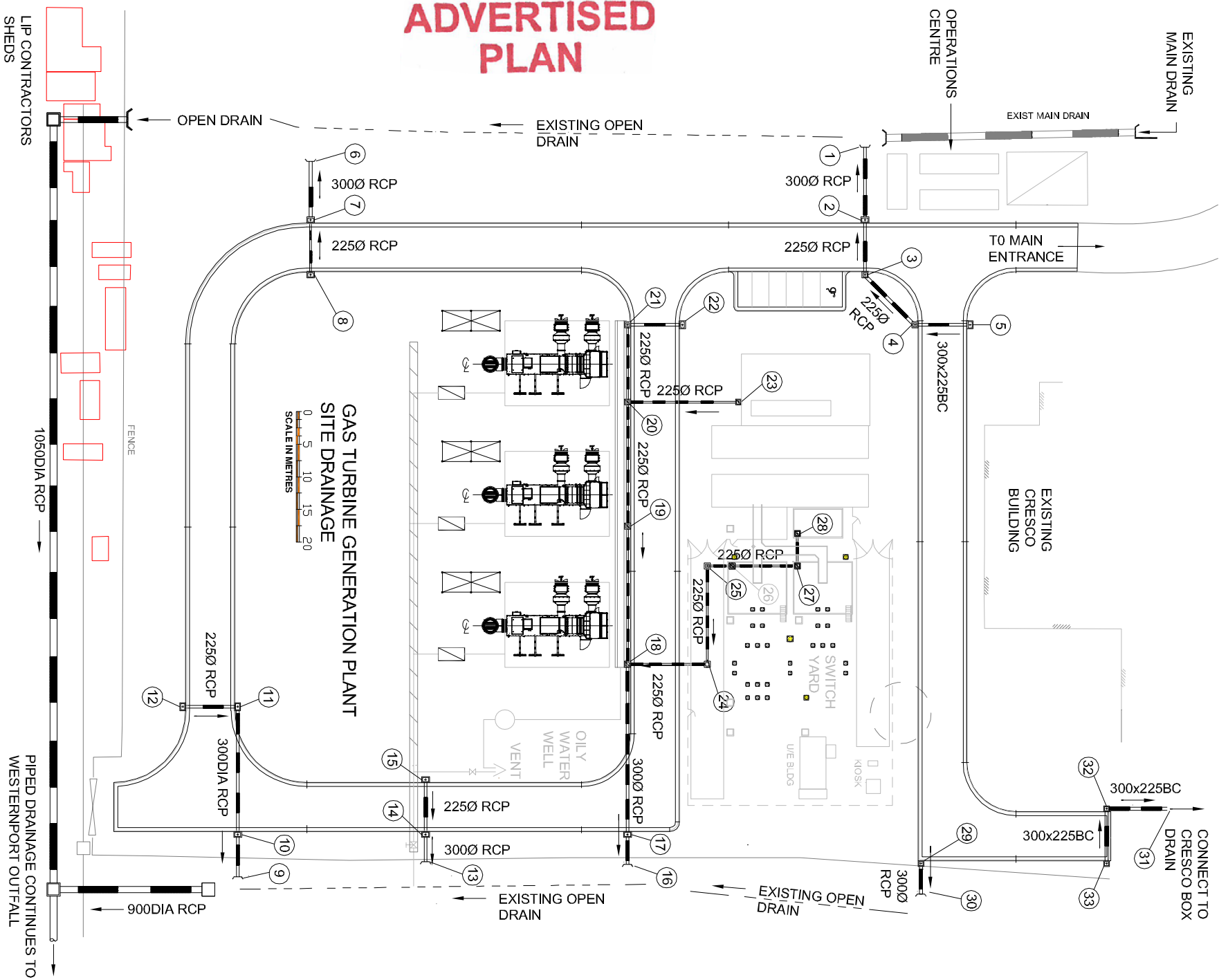
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 GLEN HUNTLY 3163
 0408 406 220

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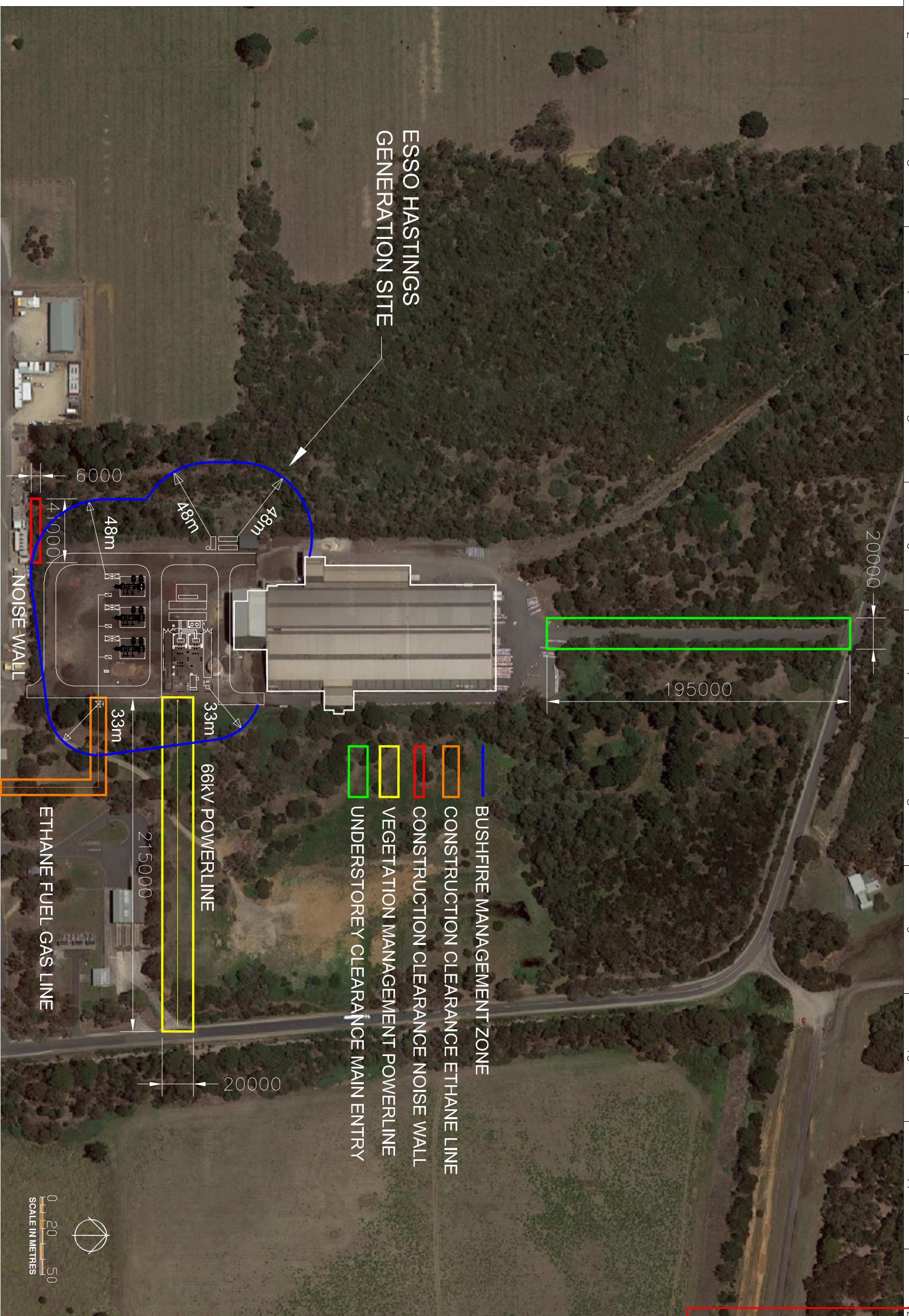
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AS CONSTRUCTED		

EXXON MOBIL HASTINGS HASTINGS GENERATION SITE SITE DRAINAGE

White Technics Pty Ltd
 Unit 4, 36 New Street
 Ringwood, VIC, 3134
 Australia
 Tel: +61 3 9847 0222
 Fax: +61 3 9847 0333
 White Technics Project No 6646

FILENAME: ESSO_FP.DWG
 SHEET 7 OF 18
 DRAWING No. REV F

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ESSO HASTINGS
GENERATION SITE

NOISE WALL

ETHANE FUEL GAS LINE

66kV POWERLINE

- BUSHFIRE MANAGEMENT ZONE
- CONSTRUCTION CLEARANCE ETHANE LINE
- CONSTRUCTION CLEARANCE NOISE WALL
- VEGETATION MANAGEMENT POWERLINE
- UNDERSTOREY CLEARANCE MAIN ENTRY

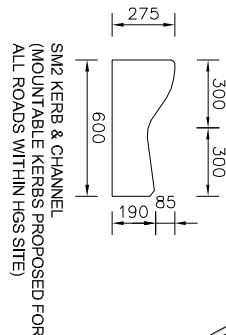
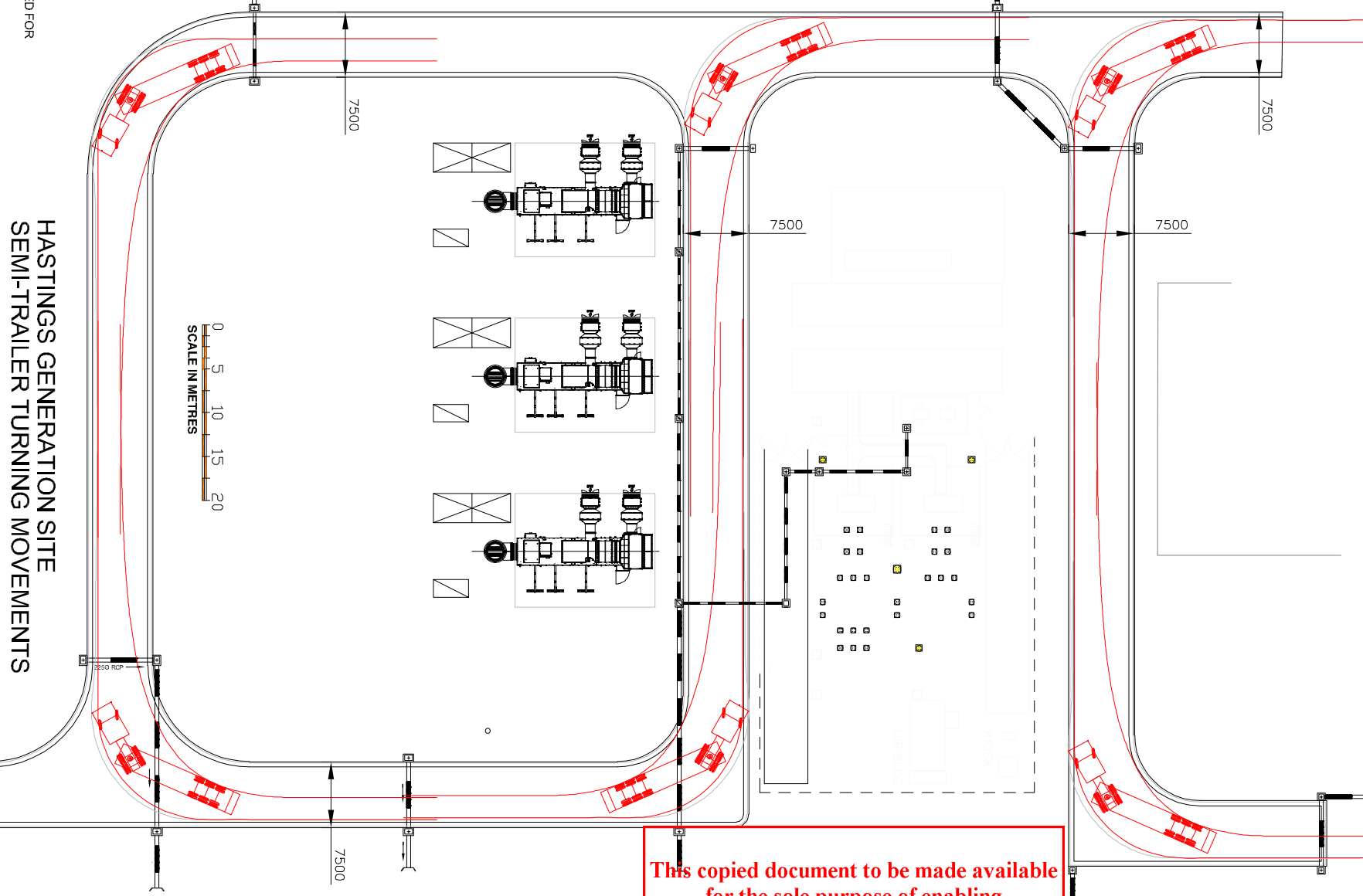
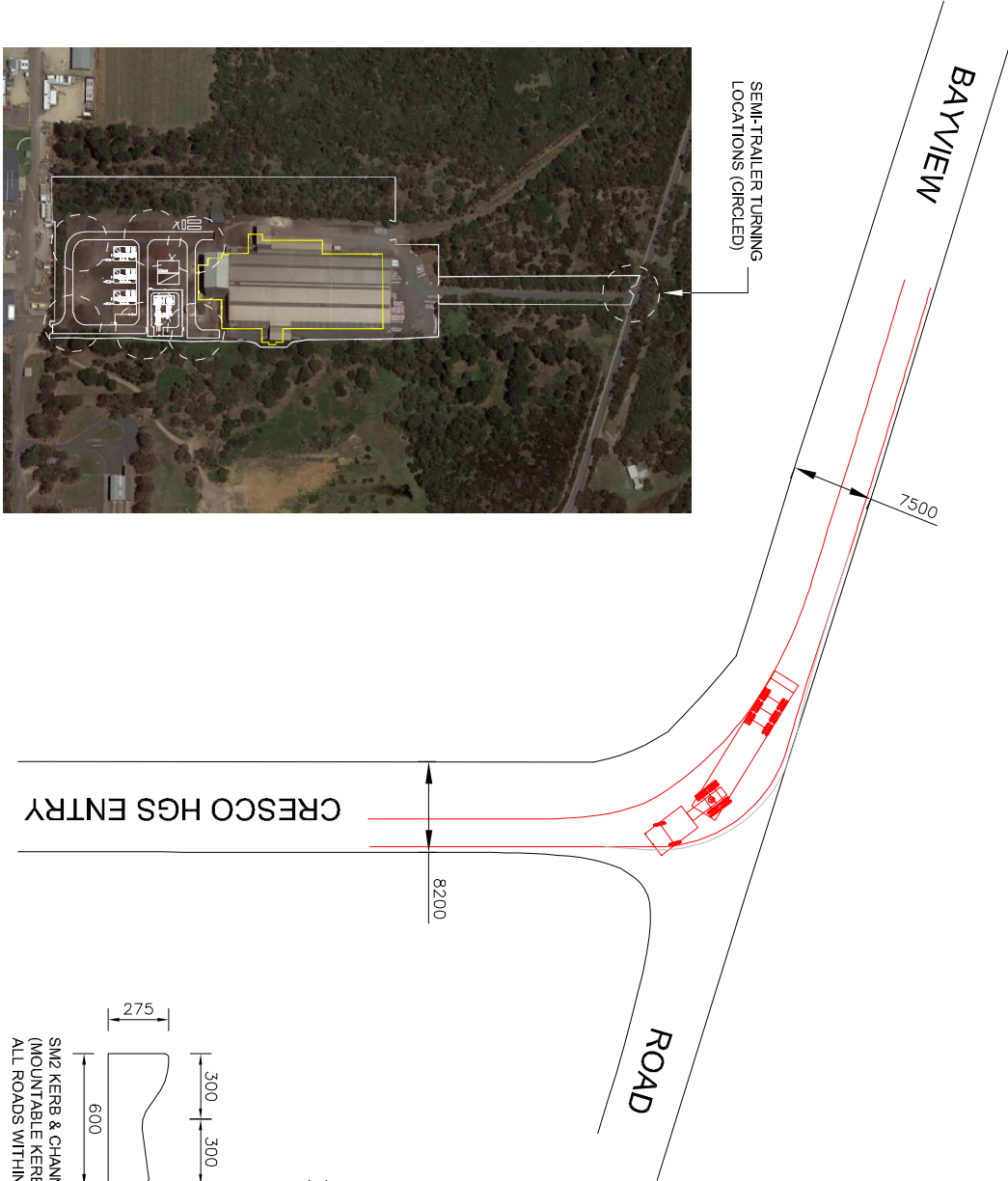
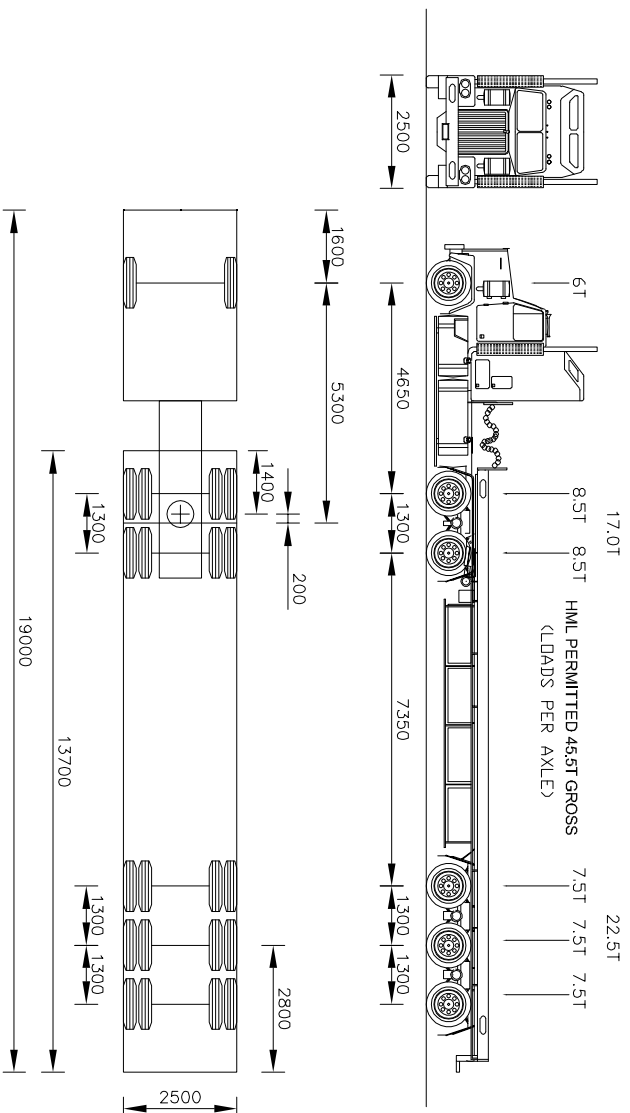
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CIVIL DESIGN MANAGEMENT PTY LTD ABN 22 071 989 938 24 MANCHESTER GROVE GLEN HUNTLY 3163 0408 406 220		F 8-04-22 ISSUED FOR AUTHORITY APPL NZ		DOCUMENT PURPOSE: A3 SHEET SIZE: A3 APPROVED:		DESIGN: DRWN: G/ing DATE: Feb 2022		White Technics Pty Ltd Unit 4, 36 New Street Ringwood, VIC, 3134 Australia Tel: +61 3 9847 0222 Fax: +61 3 9847 0333 White Technics Project No 6646	
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19.0m PRIME MOVER/SEMI-TRAILER NATIONAL HEAVY VEHICLE REGULATIONS

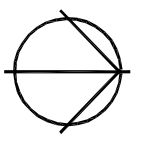


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PTY LTD

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0408 406 220

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**EXXON MOBIL HASTINGS
HASTINGS GENERATION SITE
TRUCK TURNING**

White Technics Pty Ltd
Unit 4, 36 New Street
Ringwood, VIC, 3134
Australia
Tel: +61 3 9847 0222
Fax: +61 3 9847 0333
White Technics Project No 6646

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SHEET 9 OF 18
FILENAME: ESSO_PP.DWG
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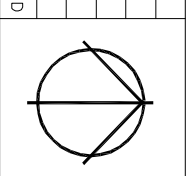
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B	16-12-21	ISSUED FOR REVIEW	GK



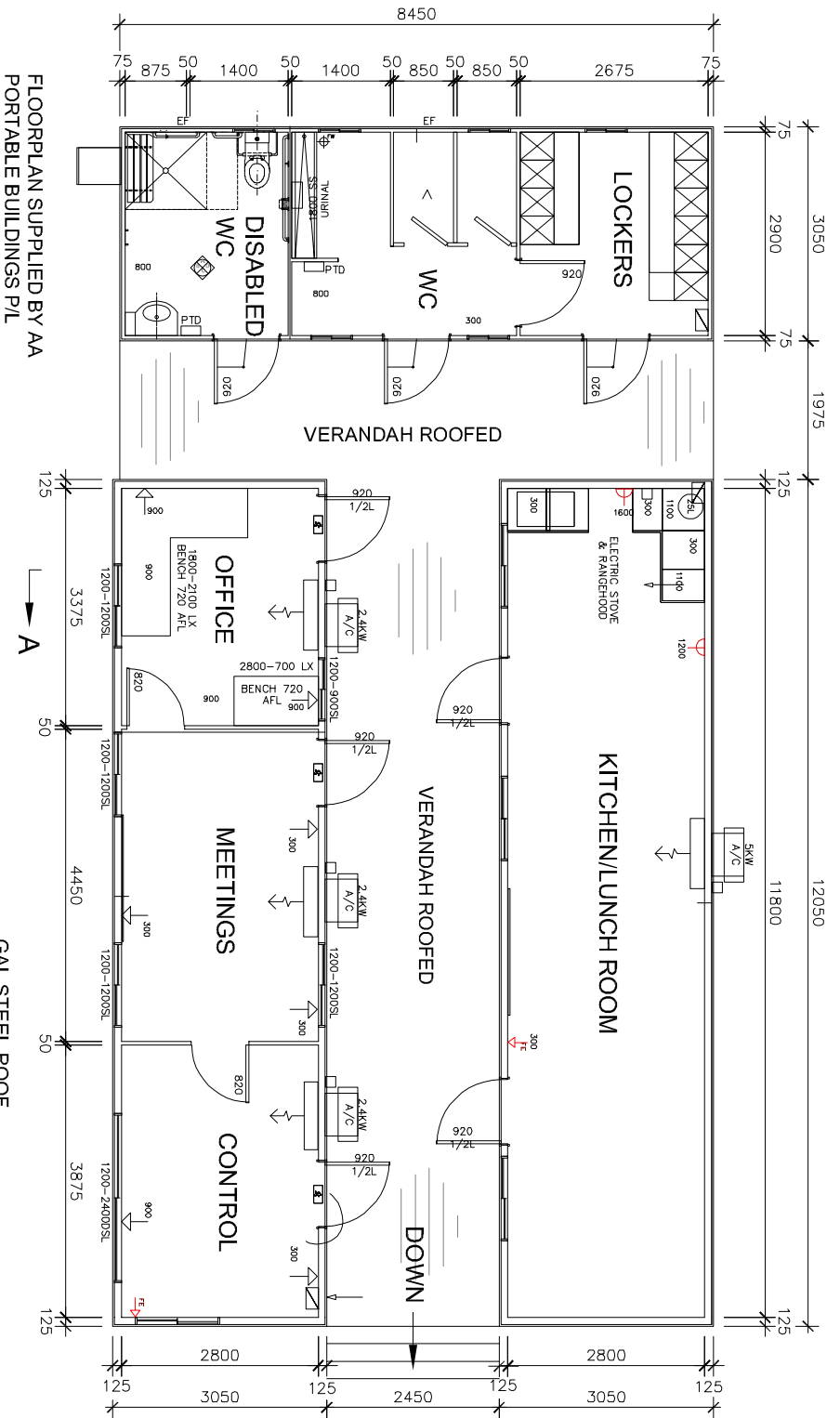
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AS CONSTRUCTED	AS CONSTRUCTED	DATE:

**EXXON MOBIL HASTINGS
 HASTINGS GENERATION SITE
 CONSTRUCTION ARRANGEMENTS**

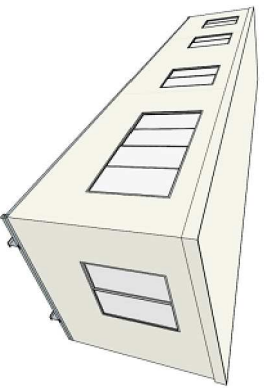
White Technics Pty Ltd
 Unit 4, 36 New Street
 Ringwood, VIC, 3134
 Australia
 Tel: +61 3 9847 0222
 Fax: +61 3 9847 0333
 White Technics Project No 6646

FILENAME: ESSO_PP.DWG	SHEET 10 OF 18	DRAWING No.
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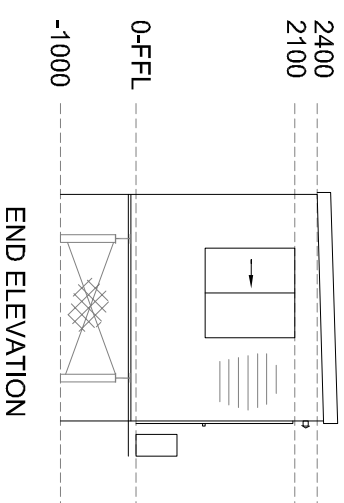
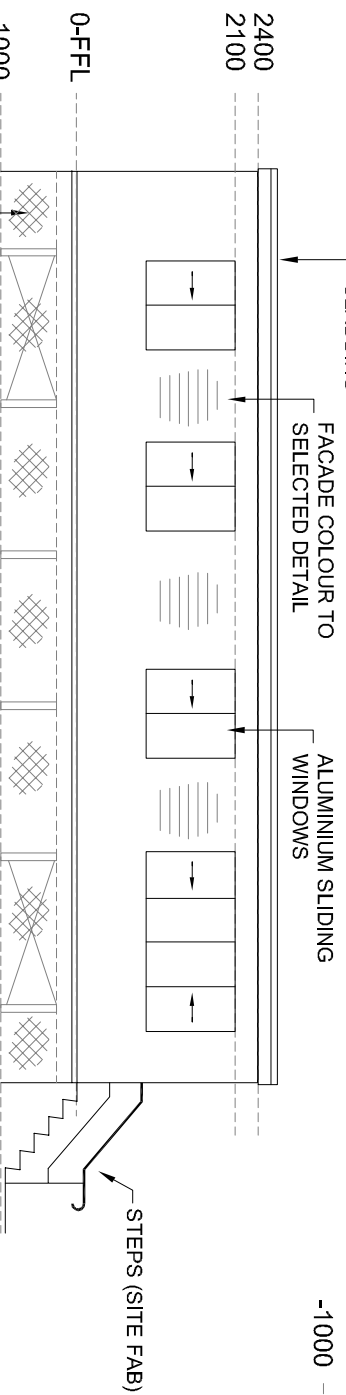
FLOORPLAN SUPPLIED BY AA PORTABLE BUILDINGS P/L



SCHEMATIC OFFICE/CONTROL ROOM

UNDERFLOOR AREA TO BE INFILLED WITH VERMIN-PROOF MATERIAL (PROVIDE ACCESS HATCH)

ELEVATION OFFICE/CONTROL ROOM

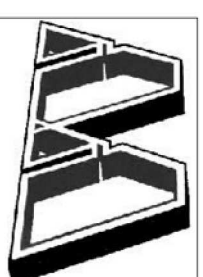


PASSAGE (AIRWAY) ROOFED OVER AND SEALED TO BUILDINGS EACH SIDE

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SEE NEXT DRAWING FOR ELEVATIONS AND DETAILS OF LUNCHROOM AND ABLUTIONS

HASTINGS GENERATION SITE OPERATIONS BUILDINGS SCALE IN METRES



A & A PORTABLE BUILDINGS PTY LTD
Unit 1, 28 Longstaff Rd
Bayswater, Victoria 3153 AUSTRALIA
Ph: +613 9720 8398, F: +613 9720 8499
sales@portablebuild.com.au
www.aaportablebuildings.com.au
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CIVIL DESIGN MANAGEMENT PTY LTD
ABN 22 071 989 938
24 MANCHESTER GROVE
GLEN HUNTLY 3163
0408 406 220

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D			
C			
B			
Z	4-02-22	ISSUED FOR REVIEW	GK

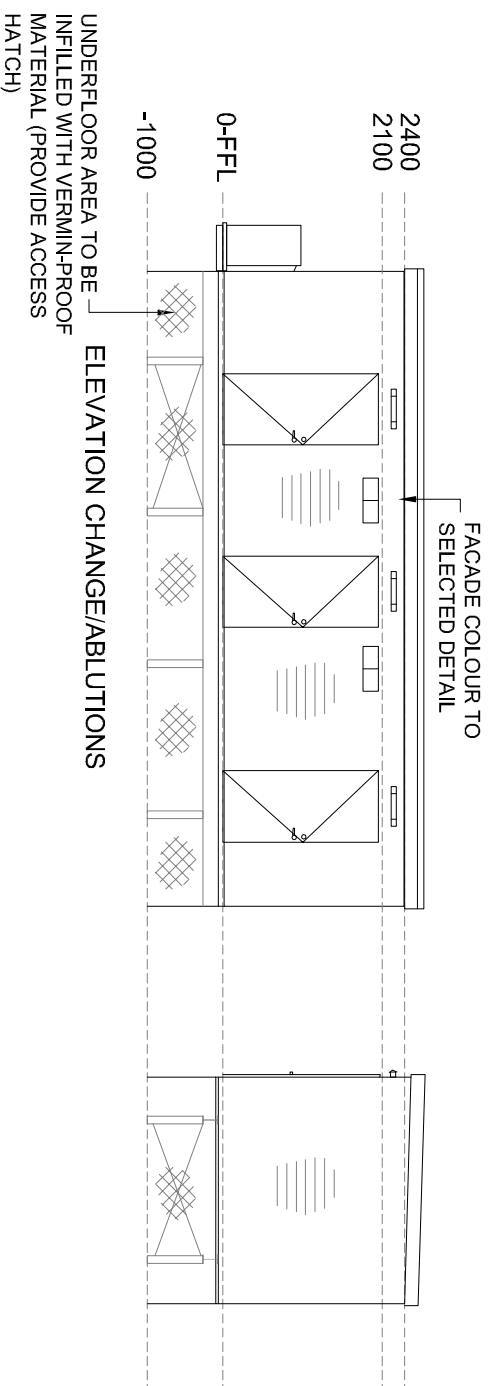
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EXXON MOBIL HASTINGS
HASTINGS GENERATION SITE
OFFICE/CONTROL ROOM

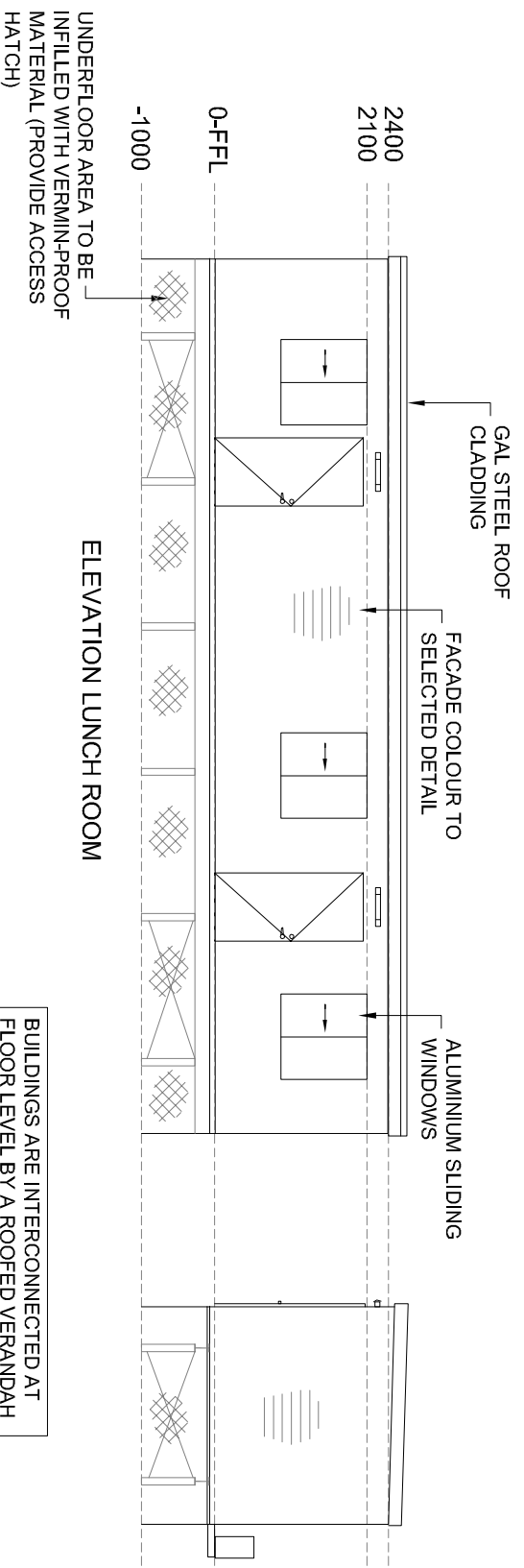
White Technics Pty Ltd
Unit 4, 36 New Street
Ringwood, VIC, 3134
Australia
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SCHEMATIC CHANGE/ABLUTIONS



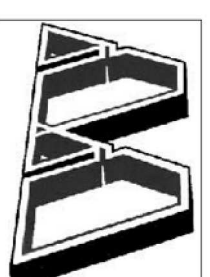
SCHEMATIC LUNCH ROOM

BUILDINGS ARE INTERCONNECTED AT FLOOR LEVEL BY A ROOFED VERANDAH WITH STEPS TO GROUND AS SHOWN ON PREVIOUS DRAWING

SEE PREVIOUS DRAWING FOR FLOORPLANS BY AA PORTABLE BUILDINGS P/L

HASTINGS GENERATION SITE LUNCHROOM AND ABLUTIONS

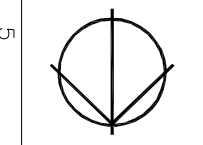
SCALE IN METRES



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Ph: +613 9720 8399, F: +613 9720 8499
sales@portablebuild.com.au
www.aaportablebuildings.com.au
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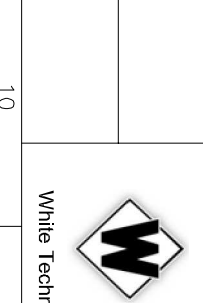
CIVIL DESIGN MANAGEMENT PTY LTD
ABN 22 071 989 938
24 MANCHESTER GROVE
GLEN HUNTLY 3163
0408 406 220

No	DATE	REVISION
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C		
D		
F	8-04-22	ISSUED FOR AUTHORITY APPL



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AS CONSTRUCTED		

EXXON MOBIL HASTINGS HASTINGS GENERATION SITE LUNCHROOM AND ABLUTIONS

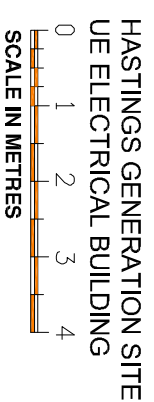
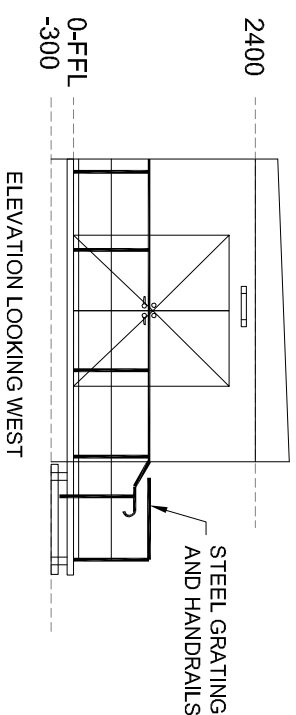
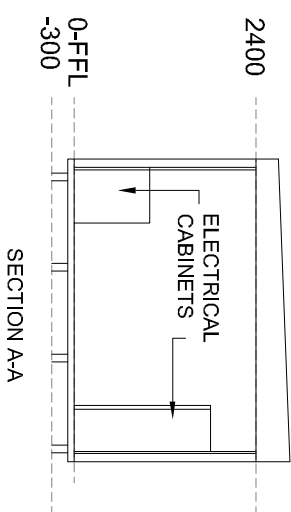
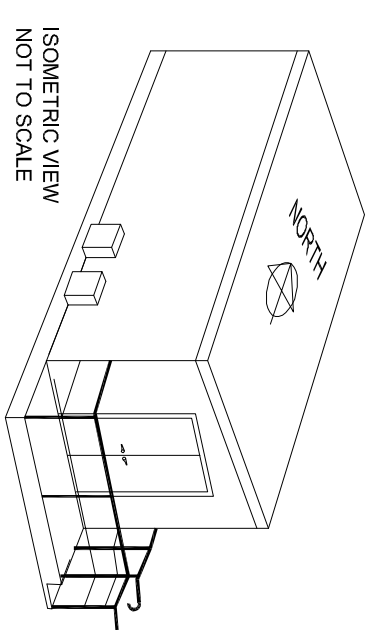
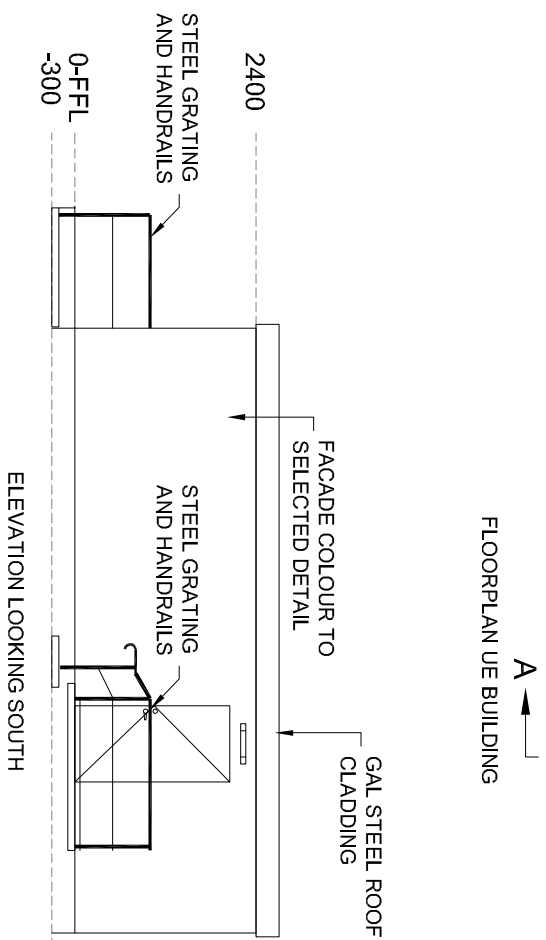
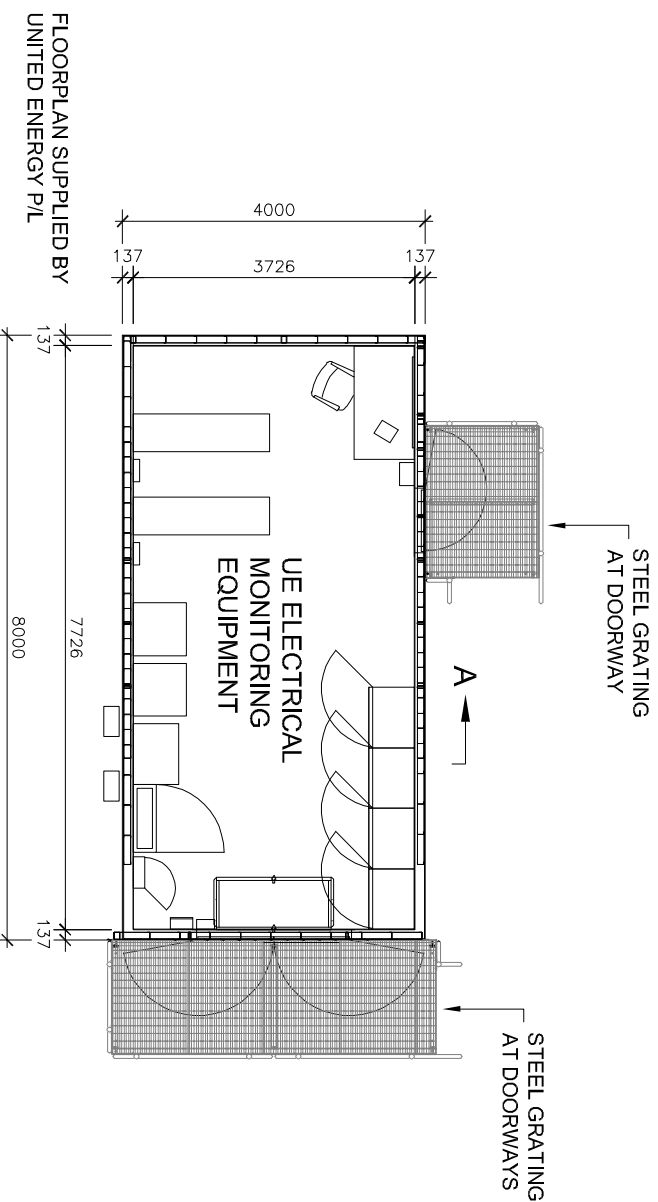


White Technics Pty Ltd
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SHEET 12 OF 18
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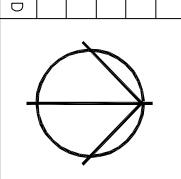
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 ABN 22 071 989 998
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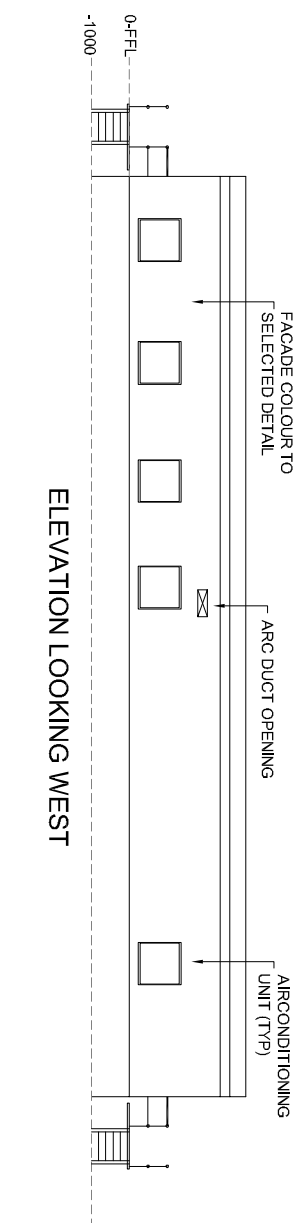
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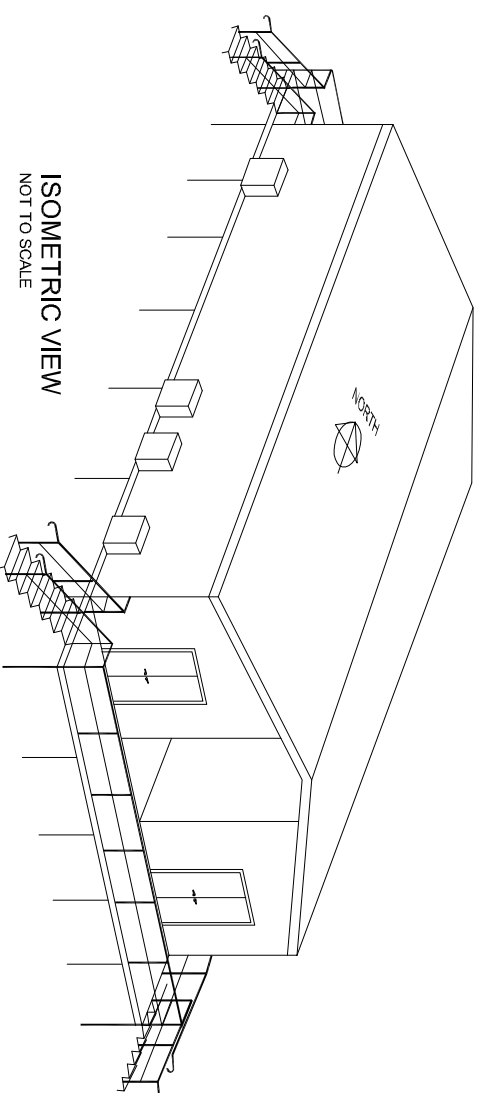
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**EXXON MOBIL HASTINGS
 HASTINGS GENERATION SITE
 UNITED ENERGY BUILDING**

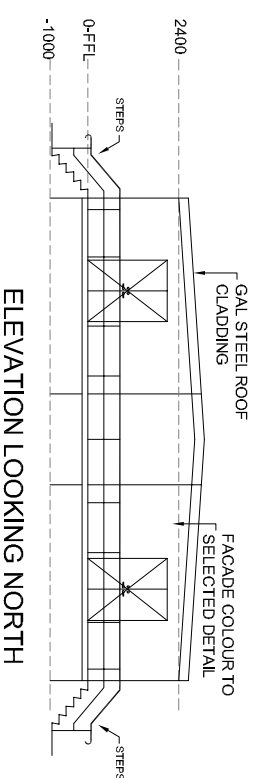
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 Unit 4, 36 New Street
 Ringwood, VIC, 3134
 Australia
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 Fax: +61 3 9847 0333
 White Technics Project No 6646



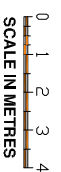
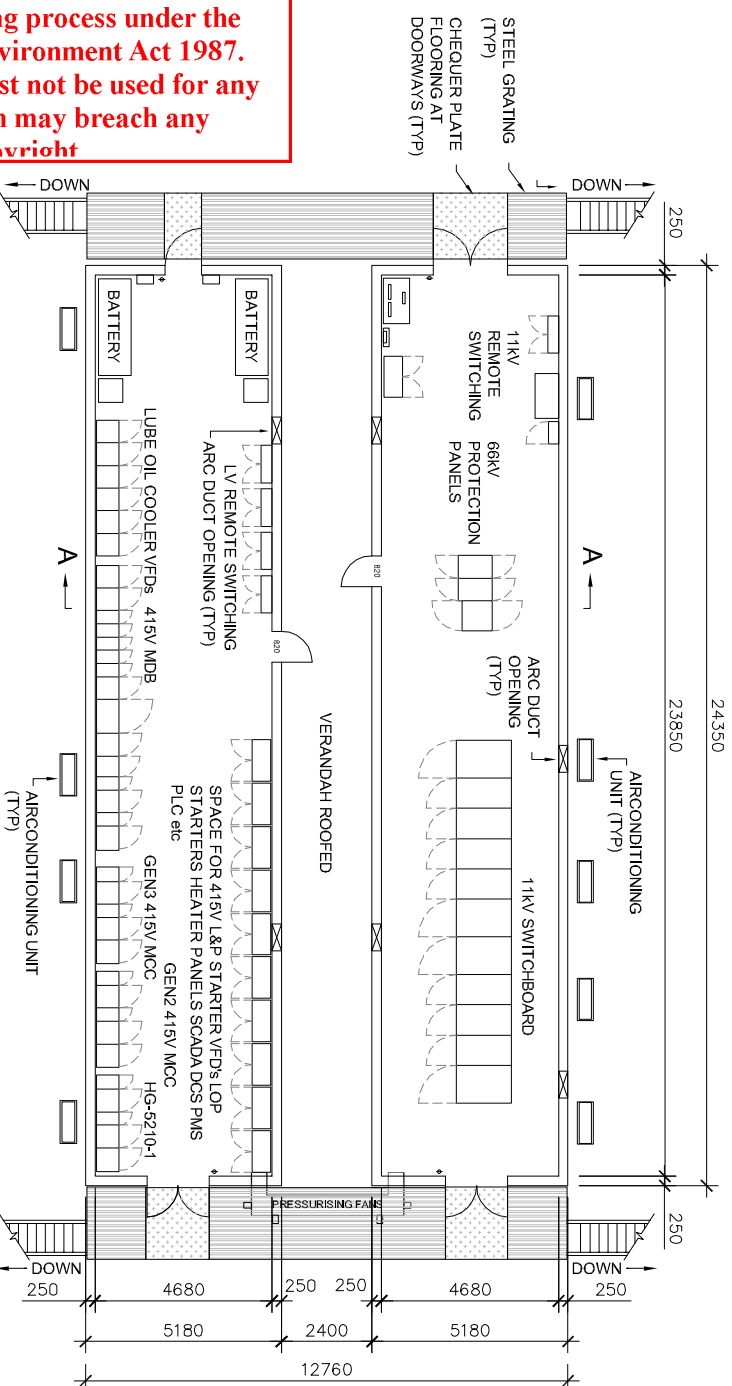
ELEVATION LOOKING WEST



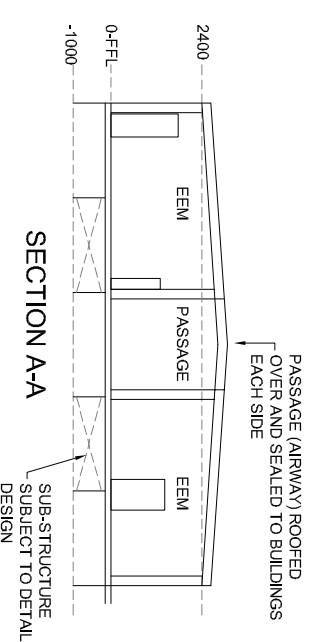
ISOMETRIC VIEW
NOT TO SCALE



ELEVATION LOOKING NORTH



FLOORPLAN ELECTRICAL EQUIPMENT MODULE BUILDINGS
(HG-5200 / HG-5201 HV/LV SWITCHROOM)



SECTION A-A

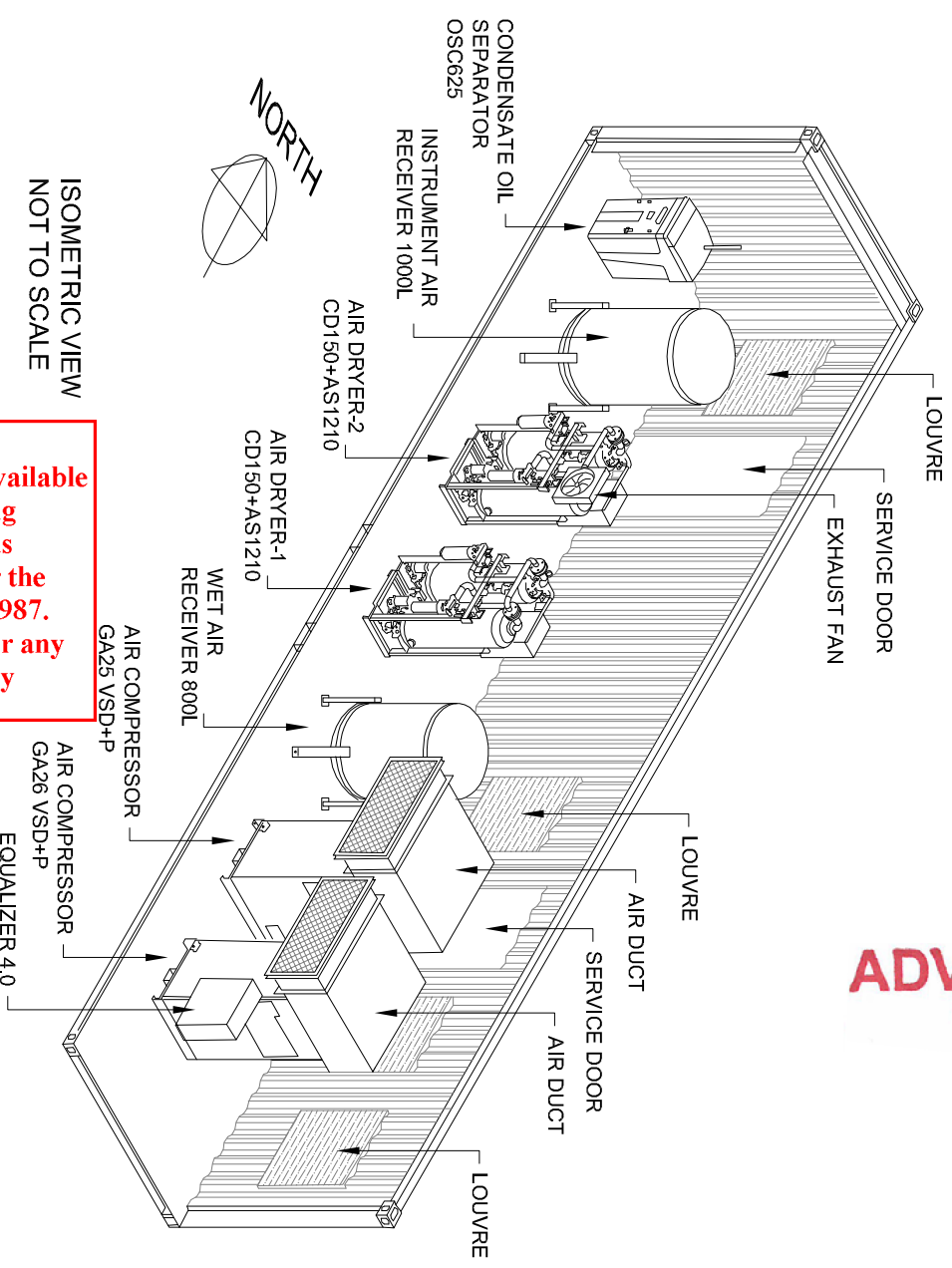
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CHANGE

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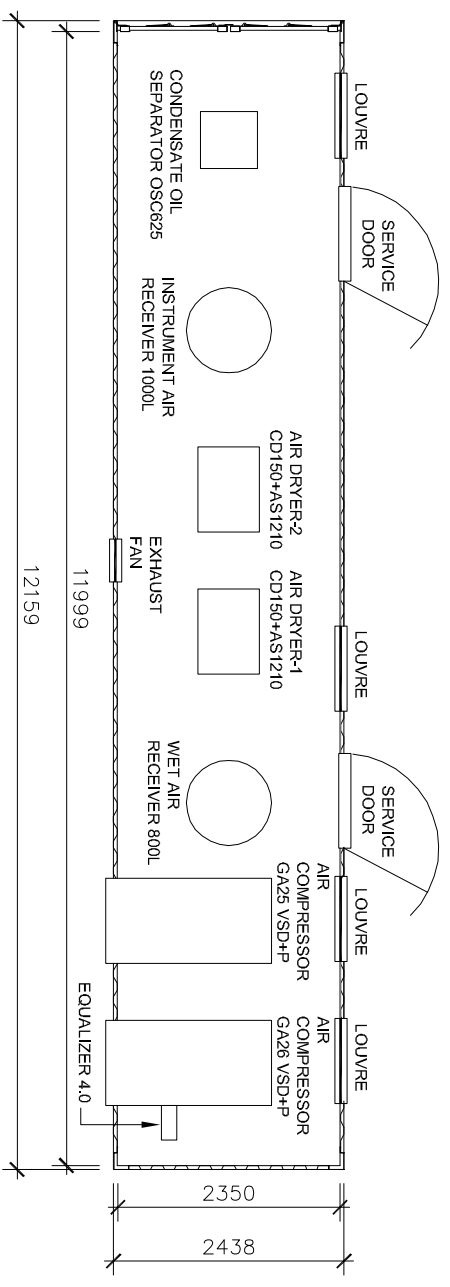
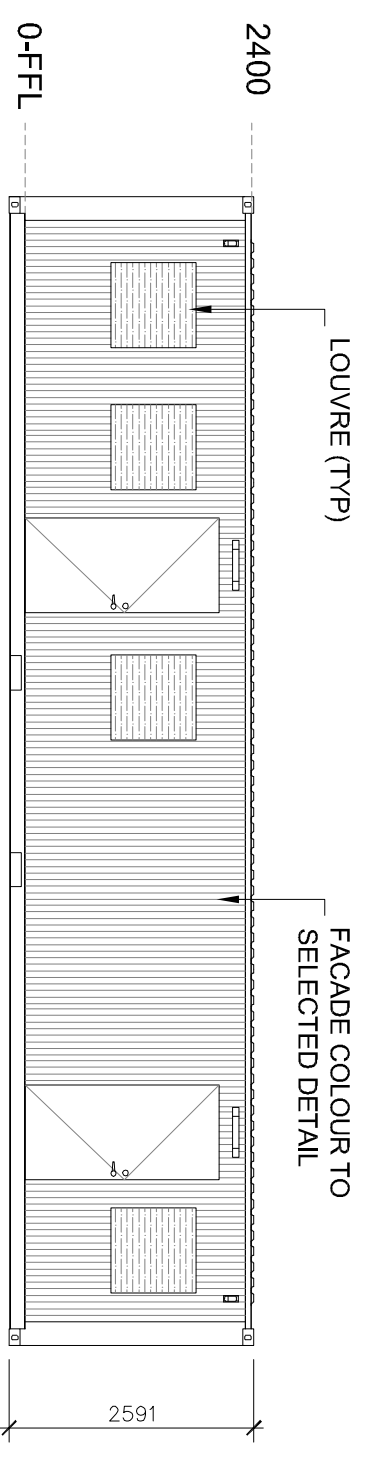
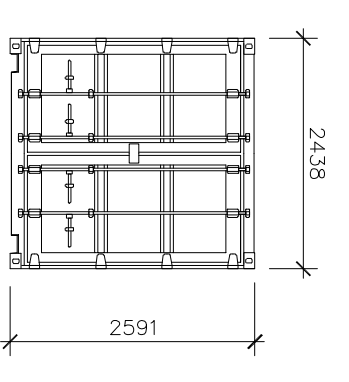
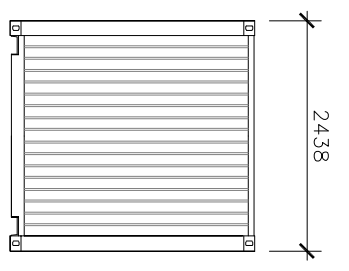
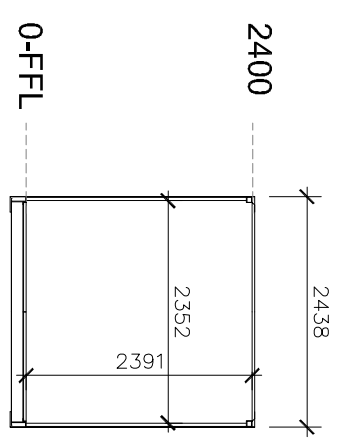
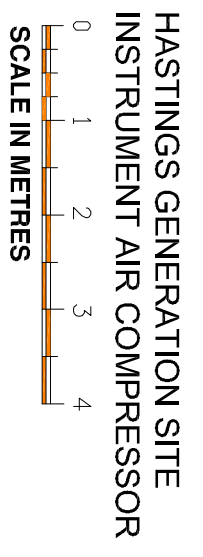
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<p>CIVIL DESIGN MANAGEMENT ABN 22 071 989 998 PTY LTD</p>		<p>24 MANCHESTER GROVE GLEN HUNTLY 3163 0408 406 220</p>		<table border="1"> <tr> <th>No</th> <th>DATE</th> <th>REVISION</th> <th>APP'D</th> </tr> <tr> <td>A</td> <td>4-02-22</td> <td>ISSUED FOR REVIEW</td> <td>GK</td> </tr> <tr> <td>B</td> <td></td> <td></td> <td></td> </tr> <tr> <td>C</td> <td></td> <td></td> <td></td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> </tr> <tr> <td>F</td> <td>8-04-22</td> <td>ISSUED FOR AUTHORITY APPL</td> <td>NZ</td> </tr> </table>		No	DATE	REVISION	APP'D	A	4-02-22	ISSUED FOR REVIEW	GK	B				C				D				F	8-04-22	ISSUED FOR AUTHORITY APPL	NZ			<table border="1"> <tr> <th>DOCUMENT PURPOSE</th> <th>AUTHORITY</th> <th>DESIGN</th> </tr> <tr> <td>AS CONSTRUCTED</td> <td>CONTRACT DATE:</td> <td>APPROVED:</td> </tr> <tr> <td>FOR TENDER ONLY</td> <td>FILE NO:</td> <td>CHECKED:</td> </tr> <tr> <td>FOR AUTHORITY APPL</td> <td>DATE:</td> <td>DATE: Dec 2021</td> </tr> <tr> <td>FOR INFORMATION</td> <td>APPROVED:</td> <td>DATE:</td> </tr> <tr> <td>ADVANCE COPY</td> <td>A3</td> <td>DATE:</td> </tr> <tr> <td>SHEET SIZE</td> <td></td> <td></td> </tr> </table>		DOCUMENT PURPOSE	AUTHORITY	DESIGN	AS CONSTRUCTED	CONTRACT DATE:	APPROVED:	FOR TENDER ONLY	FILE NO:	CHECKED:	FOR AUTHORITY APPL	DATE:	DATE: Dec 2021	FOR INFORMATION	APPROVED:	DATE:	ADVANCE COPY	A3	DATE:	SHEET SIZE			<p>EXXON MOBIL HASTINGS HASTINGS GENERATION SITE ELECTRICAL EQUIPMENT MODULE</p>		<p>White Technics Pty Ltd Unit 4, 36 New Street Ringwood, VIC, 3134 Australia Tel: +61 3 9847 0222 Fax: +61 3 9847 0333 White Technics Project No 6646</p>	
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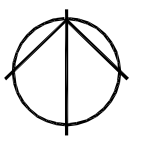
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0408 406 220

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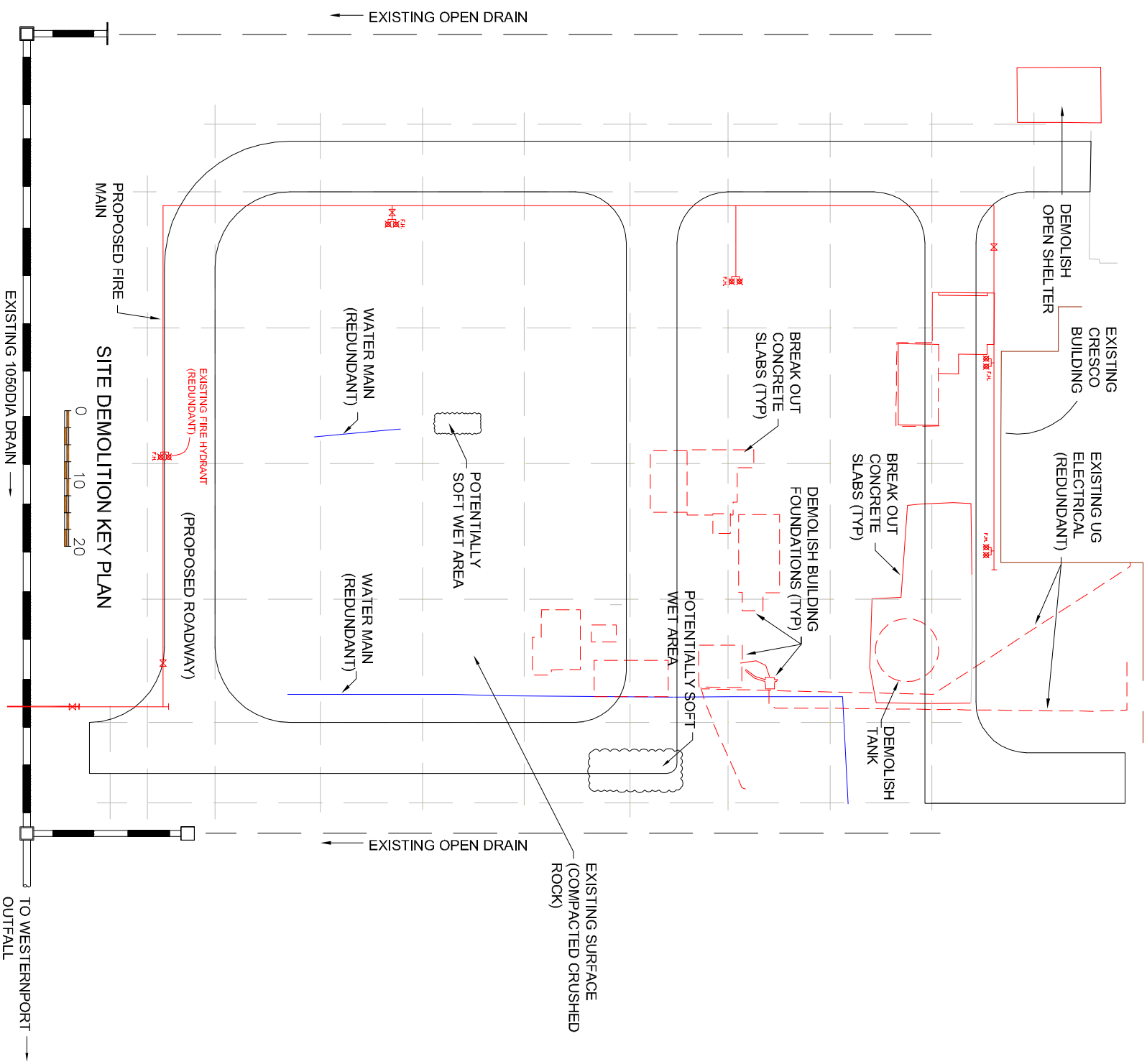
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EXXON MOBIL HASTINGS
HASTINGS GENERATION SITE
INSTRUMENT AIR COMPRESSOR



White Technics Pty Ltd
Unit 4, 36 New Street
Ringwood, VIC, 3134
Australia
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White Technics Project No 6646

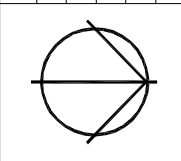
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 24 MANCHESTER GROVE
 GLEN HUNTLY 3163
 0408 406 220

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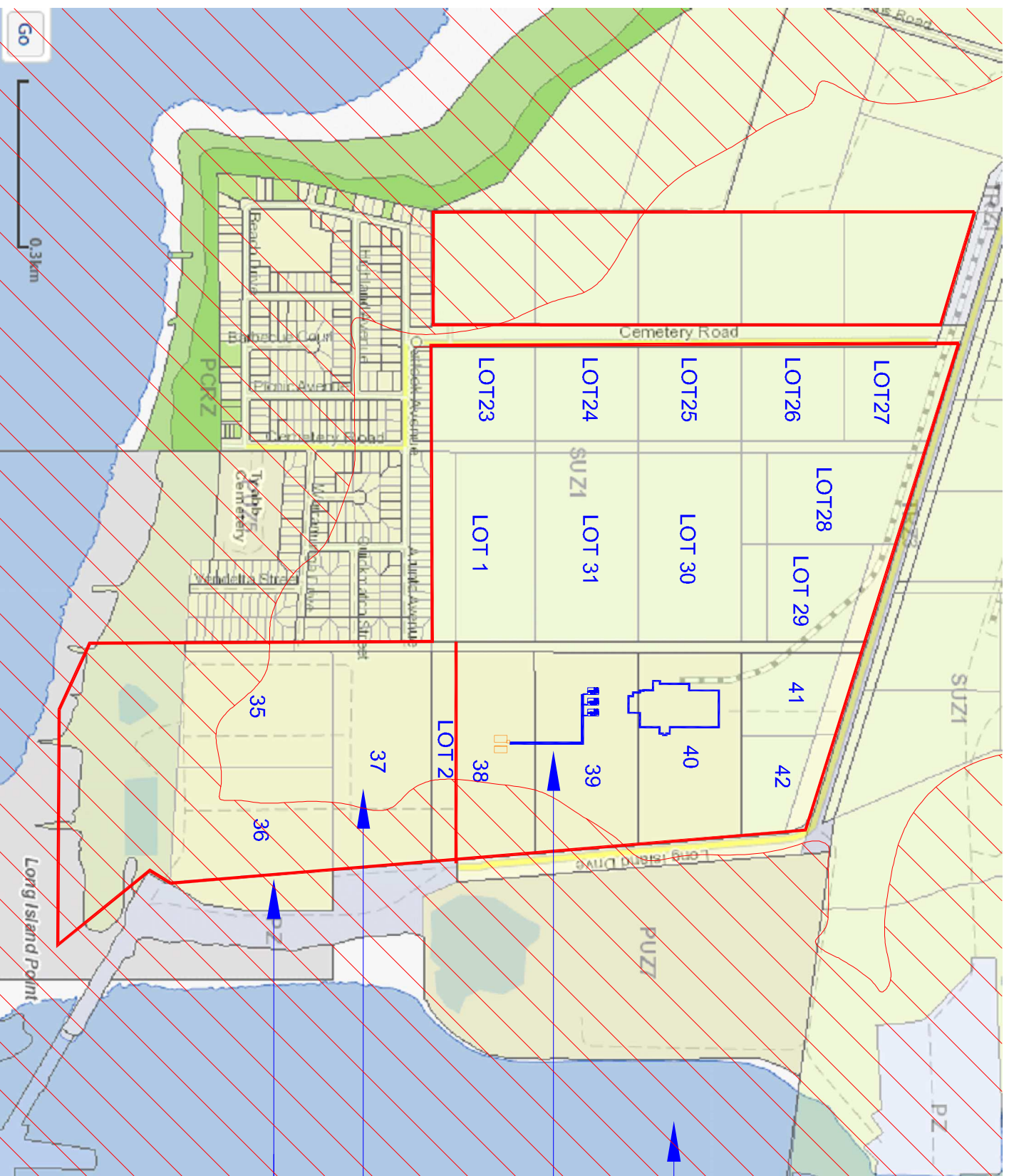


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FOR CONSTRUCTION		

EXXON MOBIL HASTINGS HASTINGS GENERATION SITE
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 Ringwood, VIC, 3134
 Australia
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 White Technics Project No 6646

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KEY PLAN ABORIGINAL CULTURAL HERITAGE AREA

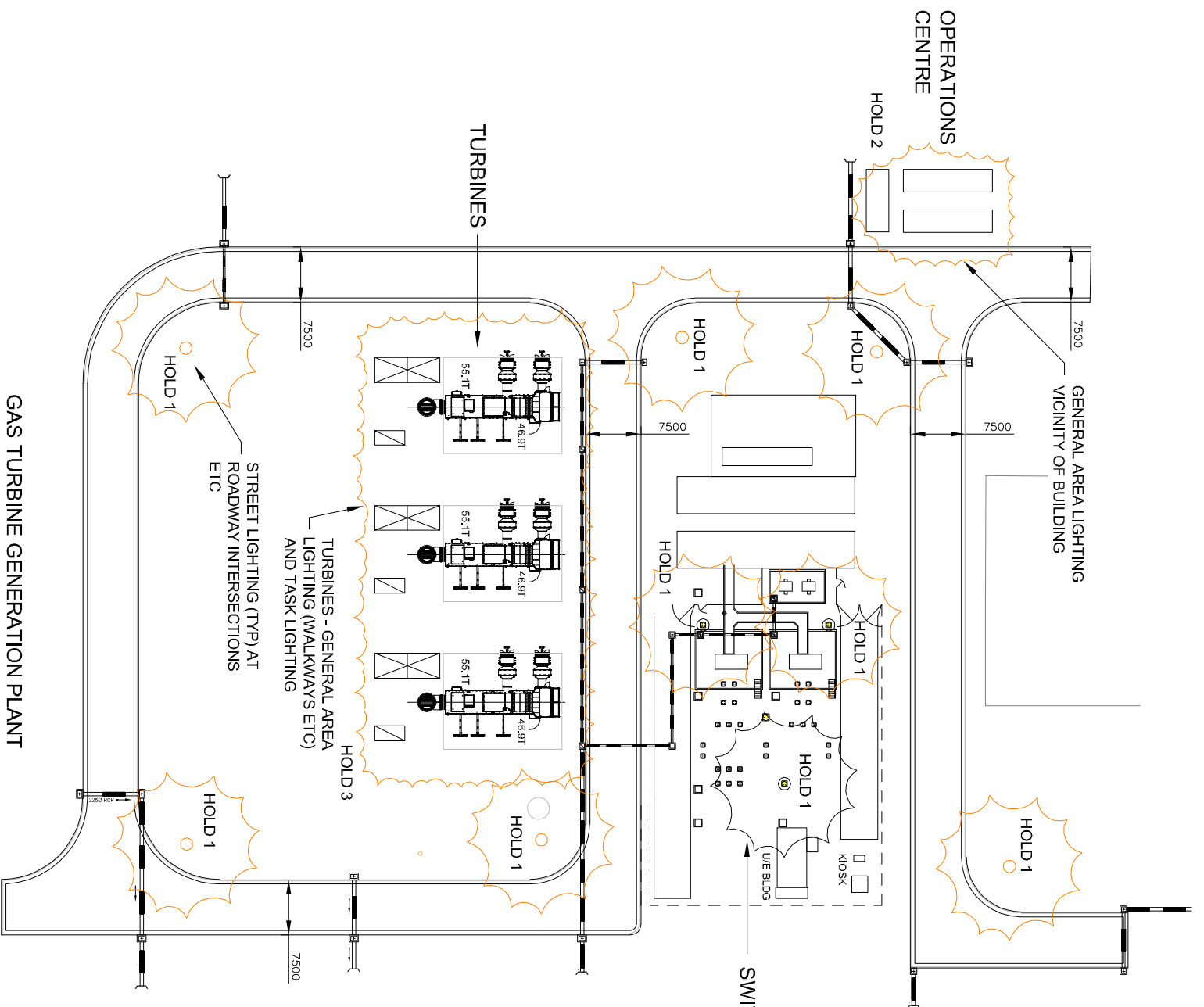


- CULTURAL HERITAGE AREA (HATCHED)
- ETHANE PIPELINE ROUTE
- LIP HASTINGS FRACTIONATION PLANT
- BOUNDARY ESSO LIP

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No DATE REVISION APP'D		FOR INFORMATION:		CHECKED:		APPROVED:		DATE:		REV F
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**GAS TURBINE GENERATION PLANT
LIGHTING PROPOSAL**



NOTE:-
LIGHTING DESIGN IN
PROGRESS - THIS PLAN IS
INDICATIVE ONLY

HOLD 1
ALL STANDARDS TBC,
SUBJECT TO DESIGN
LIGHTING SPECIFICATIONS:-
FLOOD LIGHTING H = 12m
STREET LIGHTING H = 6m
TASK LIGHTING H = 2.4m

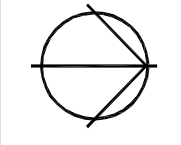
HOLD 2
BUILDING LIGHTING OPS
CENTRE LOW LEVEL OR
ATTACHED TO EAVES

HOLD 3
TASK LIGHTING TO BE
MOUNTED OFF TURBINE
STRUCTURES, WALKWAYS ETC

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GLEN HUNTLY 3163
0408 406 220

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A	22-3-22	ISSUED FOR REVIEW	GK

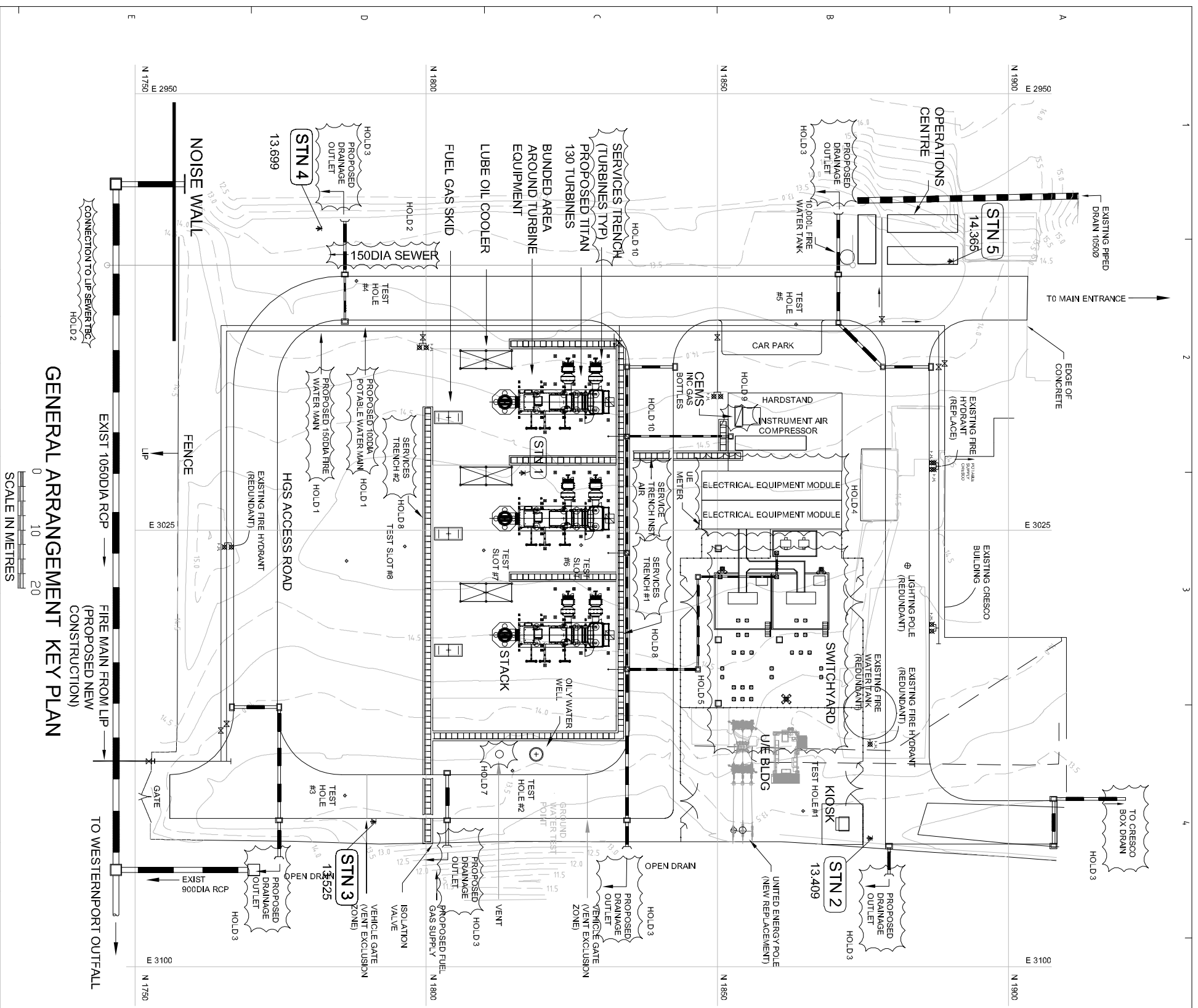


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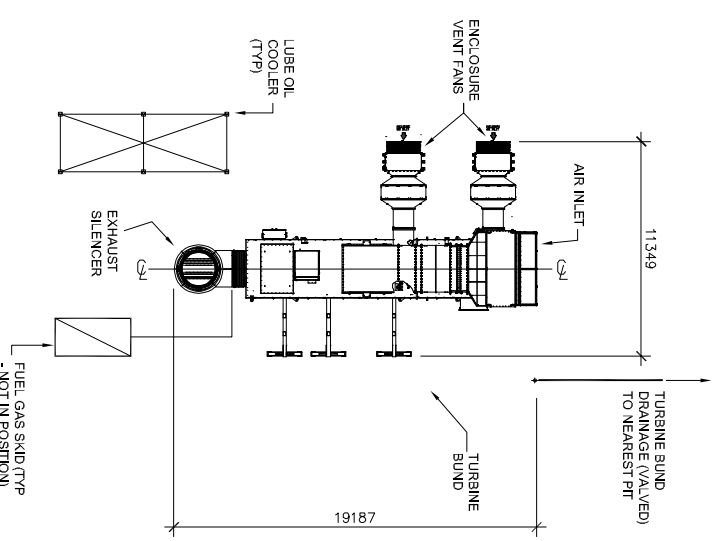
**EXXON MOBIL HASTINGS
HASTINGS GENERATION SITE
SITE LIGHTING**

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Unit 4, 36 New Street
Ringwood, VIC, 3134
Australia
Tel: +61 3 9847 0222
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White Technics Project No 6646

FILENAME: ESSO_FPP.DWG	SHEET 18 OF 18	DRAWING No.
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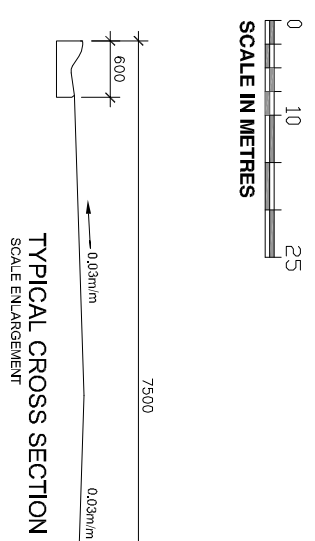


PLAN DETAIL - TITAN 130 GENERATOR SET (TVP) SCALE ENLARGEMENT

SURVEY MARKS

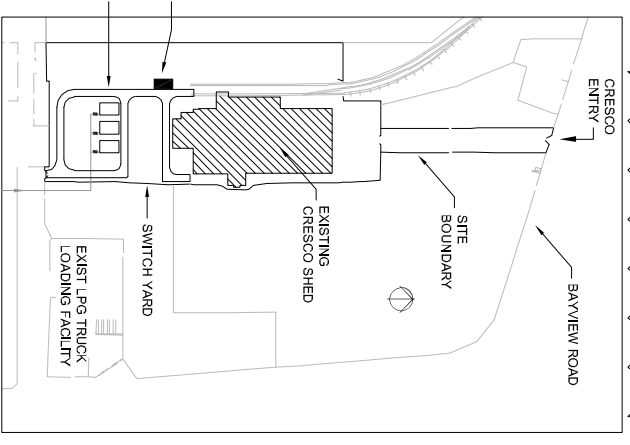
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STN 2	3077903.006, 1876676.058, 13.409
STN 3	3075047.227, 1791407.208, 13.525
STN 4	2973214.708, 1782110.466, 13.699
STN 5	2978826.741, 1890576.096, 14.365

SURVEY POINTS (EASTINGS AND NORTHINGS) ARE TO ESSO JLP DATUM



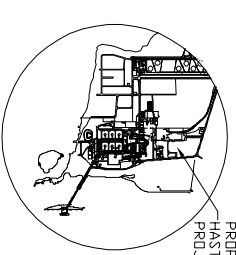
TYPICAL CROSS SECTION SCALE ENLARGEMENT

NOTES:
 1. DIMENSIONED DETAILS SHOWN ON DWG 3624.0016
 2. VICROADS ROAD SPECIFICATIONS ARE REFERENCED FOR ALL CIVIL WORKS UNLESS OTHERWISE NOTED



SITE PLAN ESSO HGS SCALE ENLARGEMENT

- LOCALITY PLAN ESSO SITE**
- HOLDS (DETAILS TO SC:-
 1. FIRE AND POTABLE WATER MAINS
 2. SEWER
 3. EBM OUTFALLS (EPA)
 4. EBM
 5. SWITCHYARD FOOTINGS (LOADS)
 6. FUEL-GAS-SKID
 7. VENT STACK
 8. SERVICE TRENCHES INC ROAD CROSSING
 9. CEMS UNIT AND GAS BOTTLE STORE (SIZE ETC)
 10. SERVICES TRENCHES CEWS & TURBINES

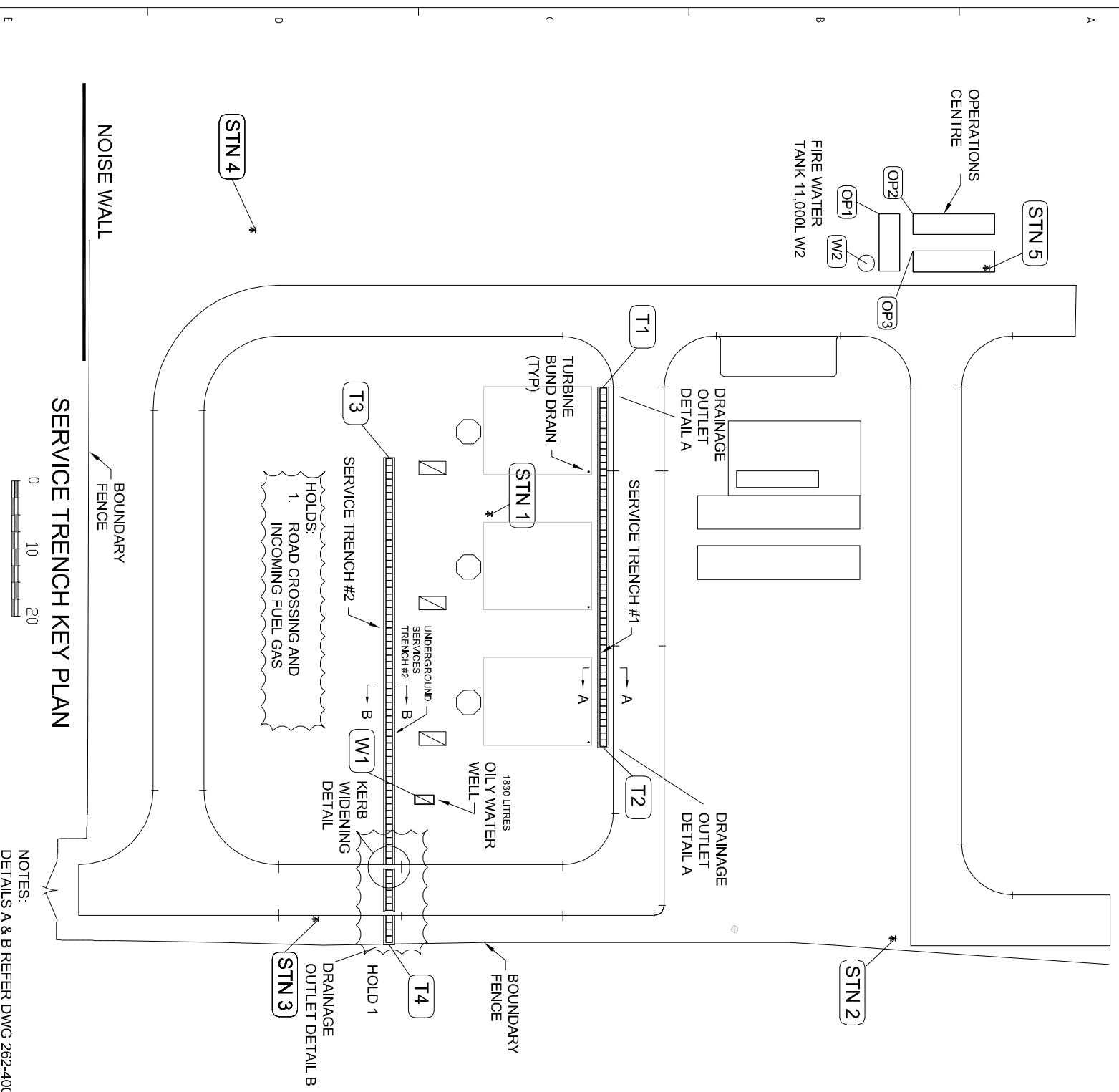


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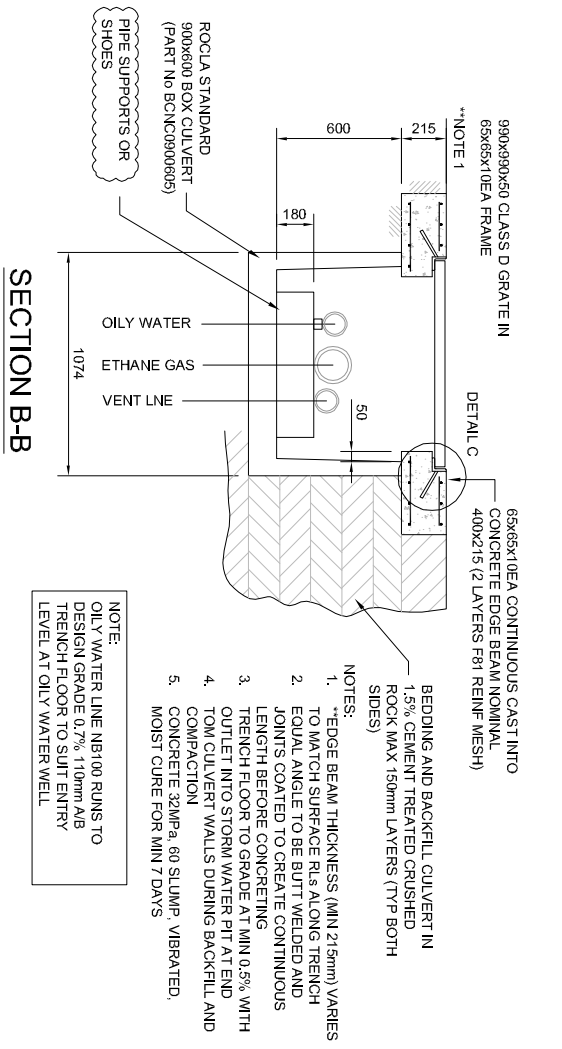
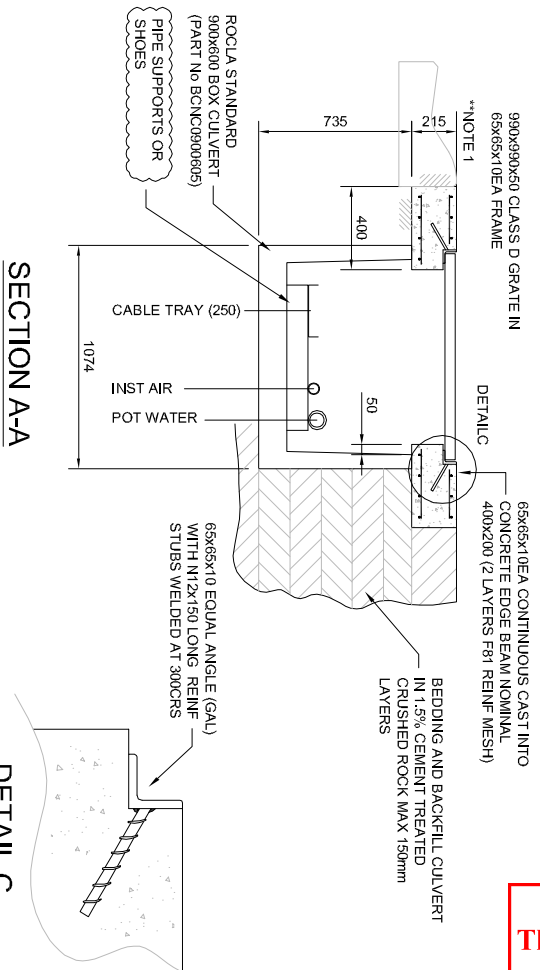
WHITE TECHNICS		Esso Australia Pty Ltd	
PROJECT MANAGER		PROJECT MANAGER	
DRAWING CHECKED		SIGNATURE	
DESIGNED		DATE	
ENGINEERING APPROVED		DATE	
CONSULTANT		DATE	
REVISION		DATE	
SCALE AS SHOWN		SCALE AS SHOWN	
262-40000		262-40000	

POINT	EASTING, NORTHING, IL
T1	2996369.938, 1833432.716, 13.040
T2	3049679.938, 1833432.716, 13.200
T3	3006832.896, 1801792.846, 13.080
T4	3078822.896, 1801792.846, 12.723
W1	3056677.897, 1805551.341, 12.160
W2	2978115.405, 1872268.786, 14.500

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ADVERTISED PLAN



- NOTES:
- EDGE BEAM THICKNESS (MIN 215mm) VARIES TO MATCH SURFACE RLS ALONG TRENCH
 - EQUAL ANGLE TO BE BUTT WELDED AND JOINTS COATED TO CREATE CONTINUOUS LENGTH BEFORE CONCRETING
 - TRENCH FLOOR TO GRADE AT MIN 0.5% WITH OUTLET INTO STORM WATER PIT AT END
 - TOM CULVERT WALLS DURING BACKFILL AND COMPACTION
 - CONCRETE 32MPa, 80 SLUMP, VIBRATED, MOIST CURE FOR MIN 7 DAYS
- NOTE: OILY WATER LINE NB100 RUNS TO DESIGN GRADE (7% 110mm) AB TRENCH FLOOR TO SUIT ENTRY LEVEL AT OILY WATER WELL

PROJECT MANAGER	E. PORIC	DRAWN	GK
REFERENCE No	262-40003	DRAFTING CHECKED	BK
DESIGNED	GK	ENGINEERING CHECKED	BK
DESIGN APPROVED	WA	CONSULTANT	WT
REV No	A	DATE	14-02-22
ISSUED FOR REVIEW		REVISION	
PROJECT MANAGER	N. ZED	DRAWING No	
SIGNATURE		REFERENCE DRAWINGS	
HASTINGS GENERATION SITE		SCALE	AS SHOWN
SERVICE TRENCH AND OILY WATER		DWG No	262 - 40003
		REV	A

WHITE TECHNICS
 1411 7th Ave, Geelong
 VIC 3220

Esso Australia Pty Ltd
 OILY WATERS PRODUCTION DEPARTMENT



FOUNDATION SET-OUT

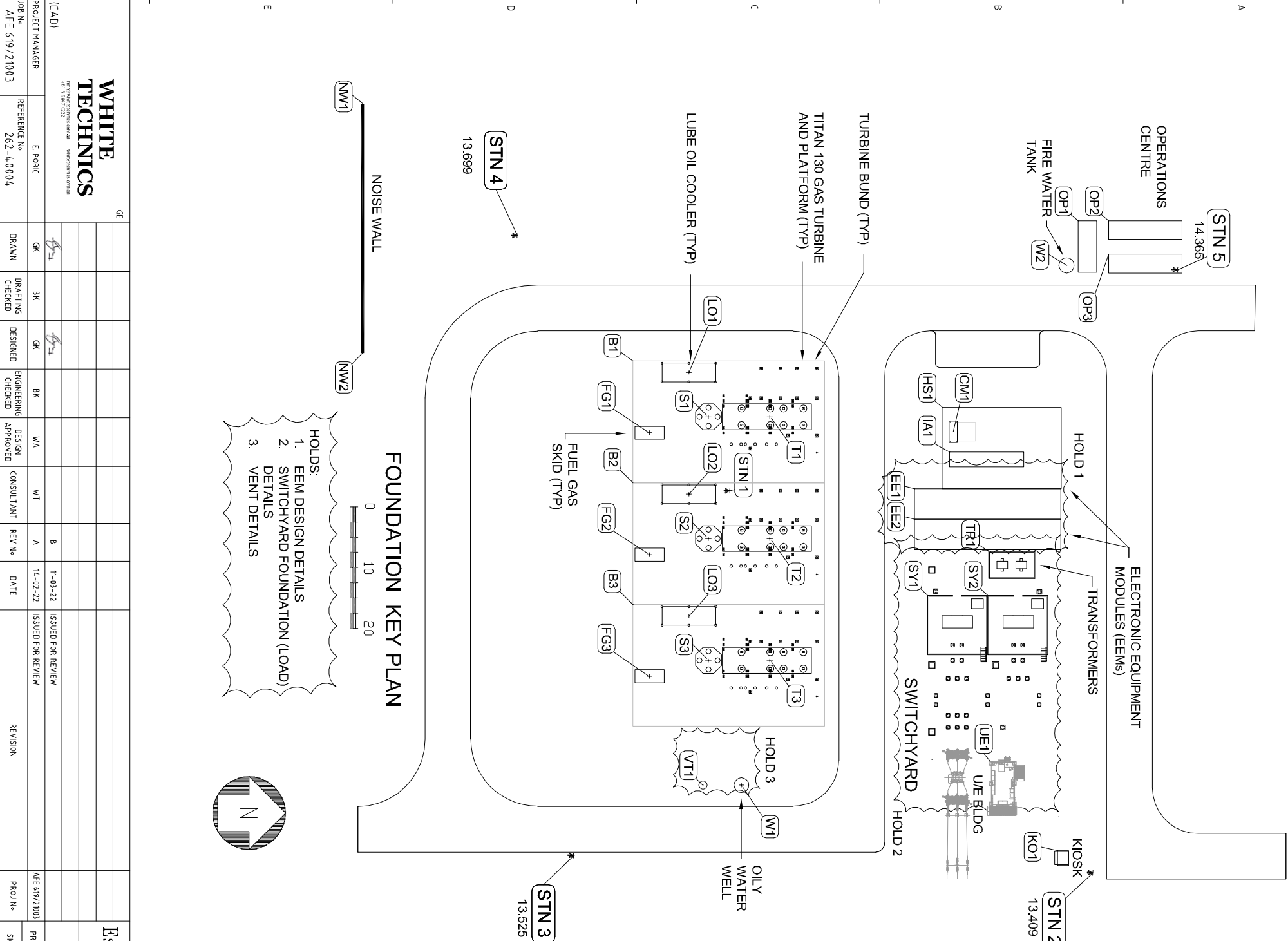
POINT	EAST, NORTH, RL	ITEM
T1	3003000, 1823585, 14050	TURBINE #1
T2	3023000, 1823585, 14050	TURBINE #2
T3	3043000, 1823585, 14050	TURBINE #3
S1	3003000, 1813500, 14050	STACK #1
S2	3023000, 1813500, 14050	STACK #2
S3	3043000, 1813500, 14050	STACK #3
L01	2995700, 1810285, 14050	LUBE OIL #1
L02	3015700, 1810285, 14050	LUBE OIL #2
L03	3035700, 1810285, 14050	LUBE OIL #3
FG2	3025620, 1803815, 14050	FUEL GAS #1
FG2	3025620, 1803815, 14050	FUEL GAS #2
FG2	3045622, 1803815, 14050	FUEL GAS #3
B1	2993820, 1801100, 14050	TURBINE BUND #1
B2	3013820, 1801100, 14050	TURBINE BUND #2
B3	3033820, 1801100, 14050	TURBINE BUND #3
V1	3063500, 1812600, 13800	VENT
W1	3063500, 1818900, 13960	DILY WATER WELL
HS1	3001430, 1851840, 14350	HARD STAND SLAB
CM1	3005440,000, 1853690,000, 0,000	INST/AIR BLDG
IA1	3008792, 1853090, 14350	ELEC EQUIP MODULE #1
EI1	3014830, 1847340, 14350	ELEC EQUIP MODULE #1
EE2	3019830, 1847340, 14350	ELEC EQUIP MODULE #2
TR1	3025070, 1859508, 14350	TRANSFORMER BUND
SY1	3032331, 1849514, 14350	SWITCH YARD BUND #1
SY2	3032331, 1849514, 14350	SWITCH YARD BUND #2
UE1	3059612, 1859804, 4	UNITED ENERGY BLDG
K01	3074272, 1870854, 14500	PADMOUNT KIOSK
W2	2978100, 1872300, 14500	FIRE WATER TANK
DP1	2970800, 1874200, 14000	DPS BLDG ABUTMENTS
DP2	2970800, 1879225, 14000	DPS BLDG KIT AMENITIES
DP3	2976300, 1879225, 14000	DPS BLDG CONTRL RM
NW1	2951520, 1756700, 14500	NOISE WALL (WEST END)
NW2	2992520, 1756700, 14500	NOISE WALL (EAST END)

NOTES :-

- CONCRETE SHALL BE SPECIAL CLASS CONCRETE AS SPECIFIED IN VIBROADS SPECIFICATION 610

CONCRETE GRADE	CHARACTERISTIC COMPRESSIVE STRENGTH F _c (MPa)	CEMENTITIOUS MATERIAL CONTENT (MIN) (kg/m ³)	WATER/CEMENTITIOUS MATERIAL RATIO (MAX)
VR 330/32	32	330	0.50
VR 400/40	40	400	0.45

- EXPOSURE CLASSIFICATION - UP TO AND INCLUDING B2
- ALL CORNERS SHALL HAVE 20mm FILLETS OR CHAMFERS UNLESS NOTED OTHERWISE
 - ALL LONGITUDINAL SURFACES SHALL HAVE A FINISH EQUIVALENT TO A STEEL FLOAT FINISH
 - MOIST CURING MUST BE UNDERTAKEN FOR A MINIMUM 7 DAYS, OR AS DIRECTED BY ESSO
- REINFORCEMENT
- REINFORCEMENT SHALL COMPLY WITH AS/NZS 4671 GRADE D500N
 - (W) DENOTES HARD DRAWN REINFORCING WIRE TO AS1303
 - HELICAL LEGATURES SHALL HAVE 1.5 TURNS AT ENDS OF PILE AND SHALL HAVE A SPLICE LENGTH OF 1.5 TURNS
 - SPLICES (IF REQUIRED) IN PILE REINFORCEMENT SHALL BE BUTT WELDED TO AS 1564
 - PART 3: BUTT WELDS SHALL BE STAGGERED AND LOCATED WITHIN L4 OF ENDS OF PILE
 - COVER ... 45mm PEDESTAL UNO
 - COVER ... 70mm PILES AND GROUND SLABS UNO
 - SPACING ... TAKEN AS EQUAL UNLESS OTHERWISE NOTED
 - GRADE ... D600 DEFORMED BARS TO AS/NZS 4671
 - WELDING SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE
 - SPLICING 12mm BARS ... 435mm
 - 16mm BARS ... 600mm
 - FABRIC ... 225mm
 - SPLICES TO ALTERNATE AND NO MORE THAN 50% OF SPLICES IN ANY ONE LOCATION
 - REINFORCEMENT TO BE CUT BACK SHALL BE GROUND OFF 25mm BELOW CONCRETE SURFACE AND PROTECTED WITH EPOXY MORTAR
- GENERAL
- GROSS-CHECK ALL DIMENSIONS WITH CURRENT OEM DRAWINGS TO CONFIRM EQUIPMENT WILL FIT
 - CONFIRM ALL HOLD-DOWN BOLT SIZE/SET OUT BEFORE PLACING CONCRETE
 - THE CONTRACTOR SHALL CHECK ALL DIMENSIONS ON SITE PRIOR TO FABRICATION AND CONSTRUCTION
 - LOOSEN FORMS NEXT DAY, STRIP AT 7 DAYS
 - CONSTANT MOIST CURING TIME SLABS MIN 7 DAYS
 - NOTE CONSTRUCTION SEQUENCE TO SUIT CRANE LIFTS - SERVICE TRENCH CONSTRUCTION TO BE DEFERRED UNTIL AFTER HEAVY EQUIPMENT INSTALLATION

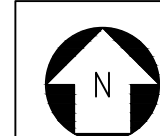


PROJECT MANAGER	E. PORIC	DRAWN	BK	DESIGNED	BK	ENGINEERING CHECKED	WA	DESIGN APPROVED	WT	CONSULTANT	REV No	DATE	REVISION
PROJECT MANAGER	E. PORIC	DRAWN	BK	DESIGNED	BK	ENGINEERING CHECKED	WA	DESIGN APPROVED	WT	CONSULTANT	REV No	DATE	REVISION
PROJECT MANAGER	E. PORIC	DRAWN	BK	DESIGNED	BK	ENGINEERING CHECKED	WA	DESIGN APPROVED	WT	CONSULTANT	REV No	DATE	REVISION

PROJECT MANAGER	Esso Australia Pty Ltd	PROJECT MANAGER	N. ZED	DRAWING No	REFERENCE DRAWINGS	SCALE	AS SHOWN	DWG No	262 - 40004	REV
PROJECT MANAGER	Esso Australia Pty Ltd	PROJECT MANAGER	N. ZED	DRAWING No	REFERENCE DRAWINGS	SCALE	AS SHOWN	DWG No	262 - 40004	REV
PROJECT MANAGER	Esso Australia Pty Ltd	PROJECT MANAGER	N. ZED	DRAWING No	REFERENCE DRAWINGS	SCALE	AS SHOWN	DWG No	262 - 40004	REV

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ADVERTISED PLAN



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EXIST CRESCO SITE

TRENCH N 1802 580
 SKE-003
 ALLOW 7 No 4000x1000 BASE BELL HOLES PROPOSED FOR CONSTRUCTION

EROSION PROTECTION IN SWALE DRAIN
 4000 x 3000 x 150THK RC SLAB
 N16-150 EW CENTRAL

ETHANE PIPELINE TRENCH
 600 WIDE (NOM)
 DEPTH VARIES

EXISTING UNDERGROUND SERVICES. LOCATIONS AND LEVELS TO BE CONFIRMED TYPICAL

EXIST FENCE

EXIST TRAINING ANNEXE

EXIST CATHODIC PROTECTION (CP) ANODES AND U/G CABLE

PERMANENT SURVEY MARKER PSM 3
 (STEEL PLATE INSIDE CONCRETE PIT)
 REFER DRG 205-15251
 E 3108 936
 N 1672 742
 RL 10138

PIPERACK COLS
 N 1625 487 REF

ANCHOR BLOCK
 2000W x 2000H x 1500LG
 N16-150 EW EF
 COG & LAP 400

B
 SKE-003

E 3132 400
 BASE RL 10350

N 1802 880
 BASE RL 10350

N 1747 000
 BASE RL 10350

N 1735 000
 BASE RL 9150

C
 SKE-004

N 1712 200
 BASE RL 9150

N 1702 200
 BASE RL 8150

D
 SKE-004

3941 REF

N 1626 987
 BASE RL 8150

TRENCH
 E 3132 100

E 3132 100

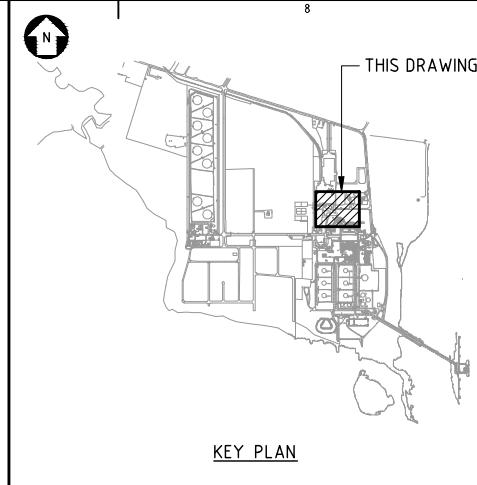
EXIST LPG LOADING

EXIST ROAD
 EXIST FENCE

EXIST TRACK

EXIST 'C' TRAIN PIPERACK

EXIST LIGHT POLE



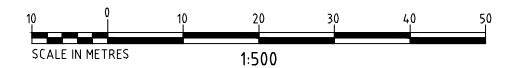
ADVERTISED PLAN

QUANTITIES	
TRENCH LENGTH (600 WIDE)	230m
TRENCH VOLUME (EXCL BENCHING)	230cu.m
TRENCH VOLUME (INCL BENCHING)	570cu.m
CONCRETE VOLUME	8cu.m

PRELIMINARY & UNCHECKED
 NOT FOR CONSTRUCTION

ALIGNMENT SUBJECT TO
 DEVELOPMENT PLAN
 APPROVALS

- NOTES:
- FOR GENERAL NOTES REFER DRG 032557-205-CIV-SKE-001.
 - THIS DRAWING USES EAPL SITE GRID. REFER TO DRAWING E100-ENG-DWG-018 FOR LIP OVERALL PLANT SURVEY DATUM POINT



UNDERGROUND ETHANE PIPELINE - PROPOSED TRENCH ALIGNMENT - PLAN
 SCALE 1:500

											Esso Australia Pty Ltd	032557-205-CIV-SKE-006 TRENCH ALIGNMENT - DETAILS 032557-205-CIV-SKE-005 TRENCH ALIGNMENT - AERIAL VIEW 032557-205-CIV-SKE-004 TRENCH ALIGNMENT - CROSS SECTIONS 032557-205-CIV-SKE-003 TRENCH ALIGNMENT - LONGITUDINAL SECTIONS 032557-205-CIV-SKE-001 GENERAL NOTES		LONG ISLAND POINT ETHANE DISPOSITION PROJECT UNDERGROUND PIPELINE TRENCH ALIGNMENT - PLAN																									
	PROJECT MANAGER	NICK ZED	E1	01/02/22	ISSUED FOR ENQUIRY	GA	HRP	HRP	WOOD	WOOD		ESSO ENGINEER	DRAWING No	REFERENCE DRAWINGS	SCALE	DRG No	REV																						
JOB No	032557	REFERENCE No	032557-205-CIV-SKE-002	REV No		DATE		REVISION		PROJ No		DRAWN		DRAFTING CHECKED		DESIGNED		ENGINEERING CHECKED		DESIGN APPROVED		CONSULTANT		ESSO APPROVED		SIGNATURE		DATE		DRAWING No		REFERENCE DRAWINGS		SCALE	1:500	DRG No	032557-205-CIV-SKE-002	REV	E1

EXIST CRESCO SITE

ESL 13750 NOM

EXIST FENCE

SURFACE DRAIN
IL 11500 NOM
4000x3000x150 THK RC SLAB
EROSION PROTECTION

EXIST FENCE
ESL 11650 NOM

E 3078 800 NOM
BASE RL 11750

E 3084 100
BASE RL 10350

ETHANE PIPELINE TRENCH
600 WIDE (NOM)

E 3132 400
BASE RL 10350

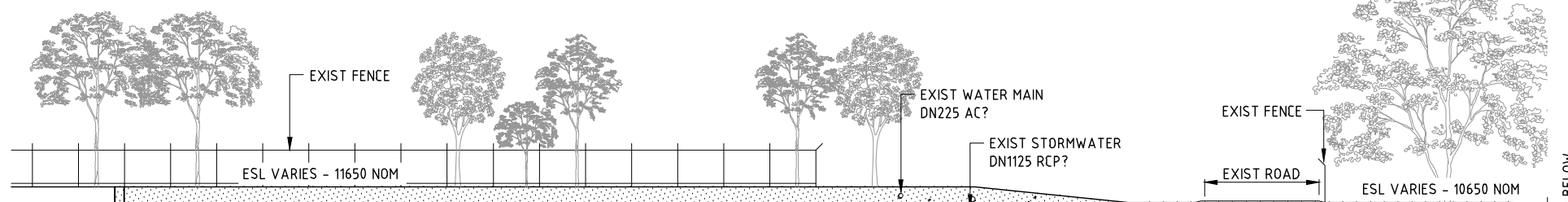
5300 NOM
DEPTH VARIES (1500-1300 NOM)
SLOPING BASE

48300
DEPTH VARIES (2600-1300 NOM)
LEVEL BASE

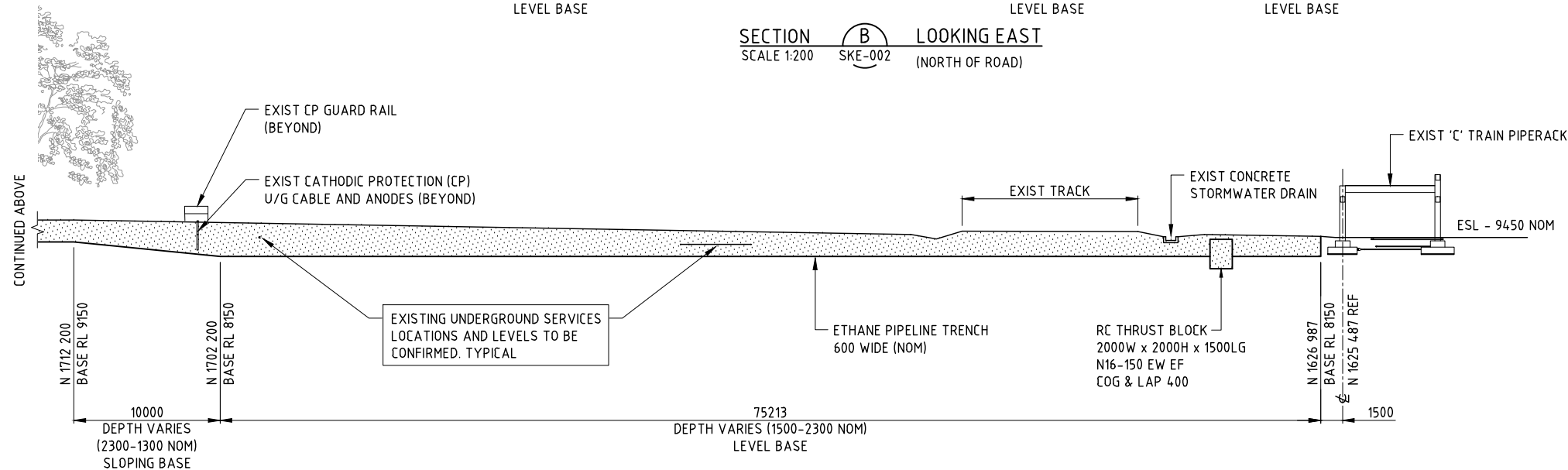
SECTION A LOOKING NORTH
SCALE 1:200 SKE-002

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SECTION B LOOKING EAST
SCALE 1:200 SKE-002 (NORTH OF ROAD)



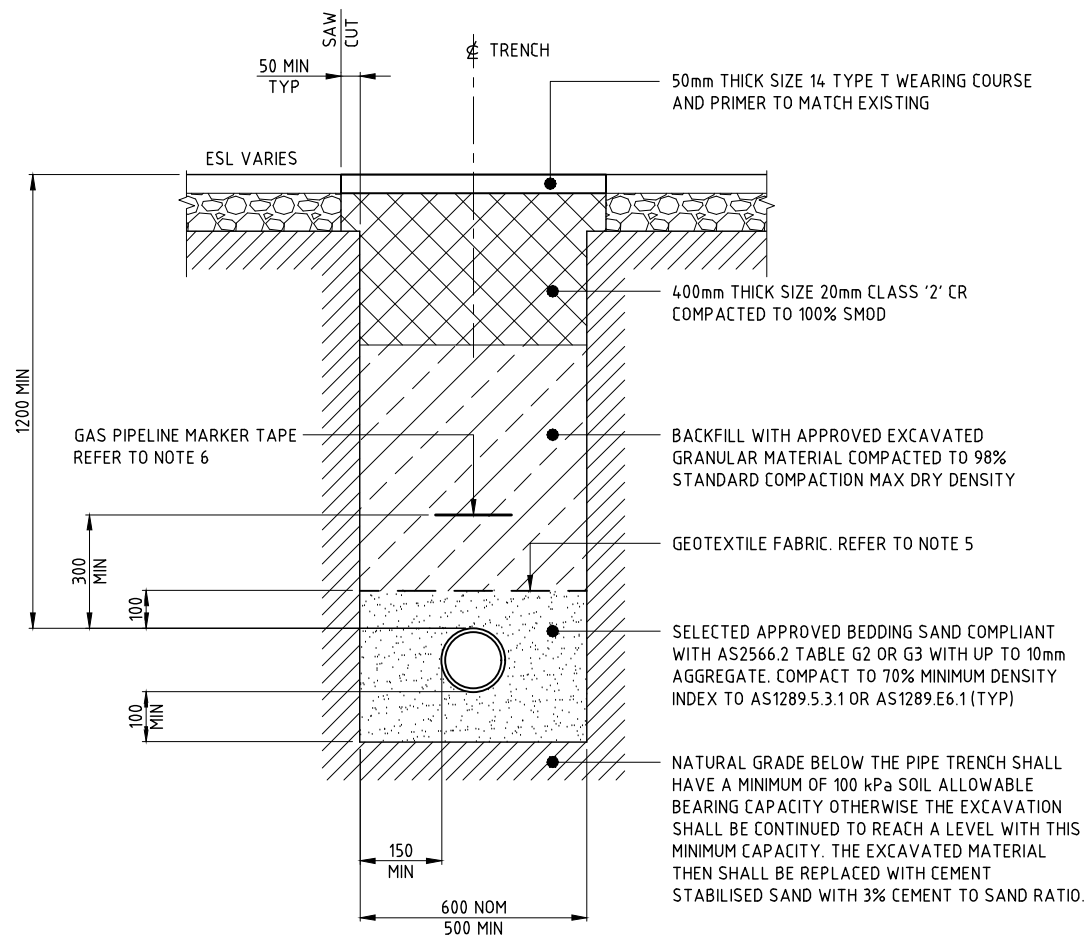
SECTION B LOOKING EAST
SCALE 1:200 SKE-002 (SOUTH OF ROAD)

PRELIMINARY & UNCHECKED NOT FOR CONSTRUCTION

NOTES:
1. FOR GENERAL NOTES REFER DRG 032557-205-CIV-SKE-001.



wood.												Esso Australia Pty Ltd		LONG ISLAND POINT ETHANE DISPOSITION PROJECT UNDERGROUND PIPELINE TRENCH ALIGNMENT - LONG SECTIONS							
(CAD)A1														032557-205-CIV-SKE-002 TRENCH ALIGNMENT - PLAN							
PROJECT MANAGER	NICK ZED	E1	01/02/22	ISSUED FOR ENQUIRY	GA	HRP	HRP	WOOD	ESSO ENGINEER	032557-205-CIV-SKE-001 GENERAL NOTES											
JOB No	032557	REFERENCE No	032557-205-CIV-SKE-003	REV No	DATE	REVISION	PRJ No	DRAWN	DRAFTING CHECKED	DESIGNED	ENGINEERING CHECKED	DESIGN APPROVED	CONSULTANT	ESSO APPROVED	SIGNATURE	DATE	DRAWING No	REFERENCE DRAWINGS	SCALE	DRG No	REV
																			1:200 UNO	032557-205-CIV-SKE-003	E1

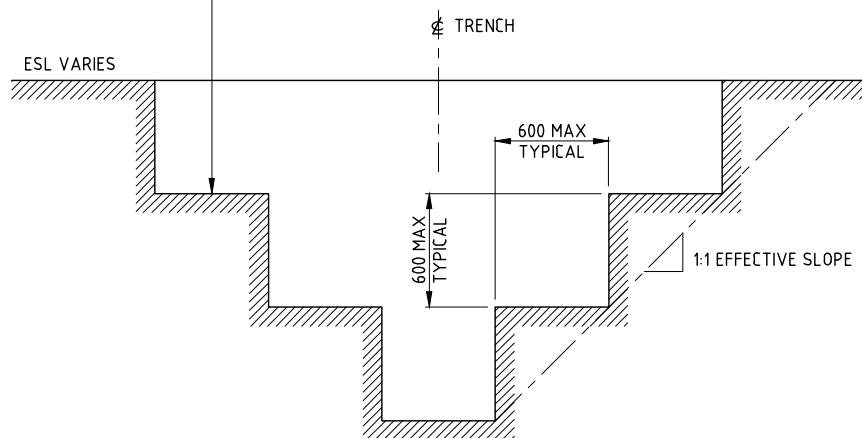


BEDDING AND PADDING
DESIGN LOAD: ML-1600 LOAD DR W80 WHEEL LOAD AS PER AS 5100.2

TYPICAL PIPE TRENCH UNDER EXISTING ROAD

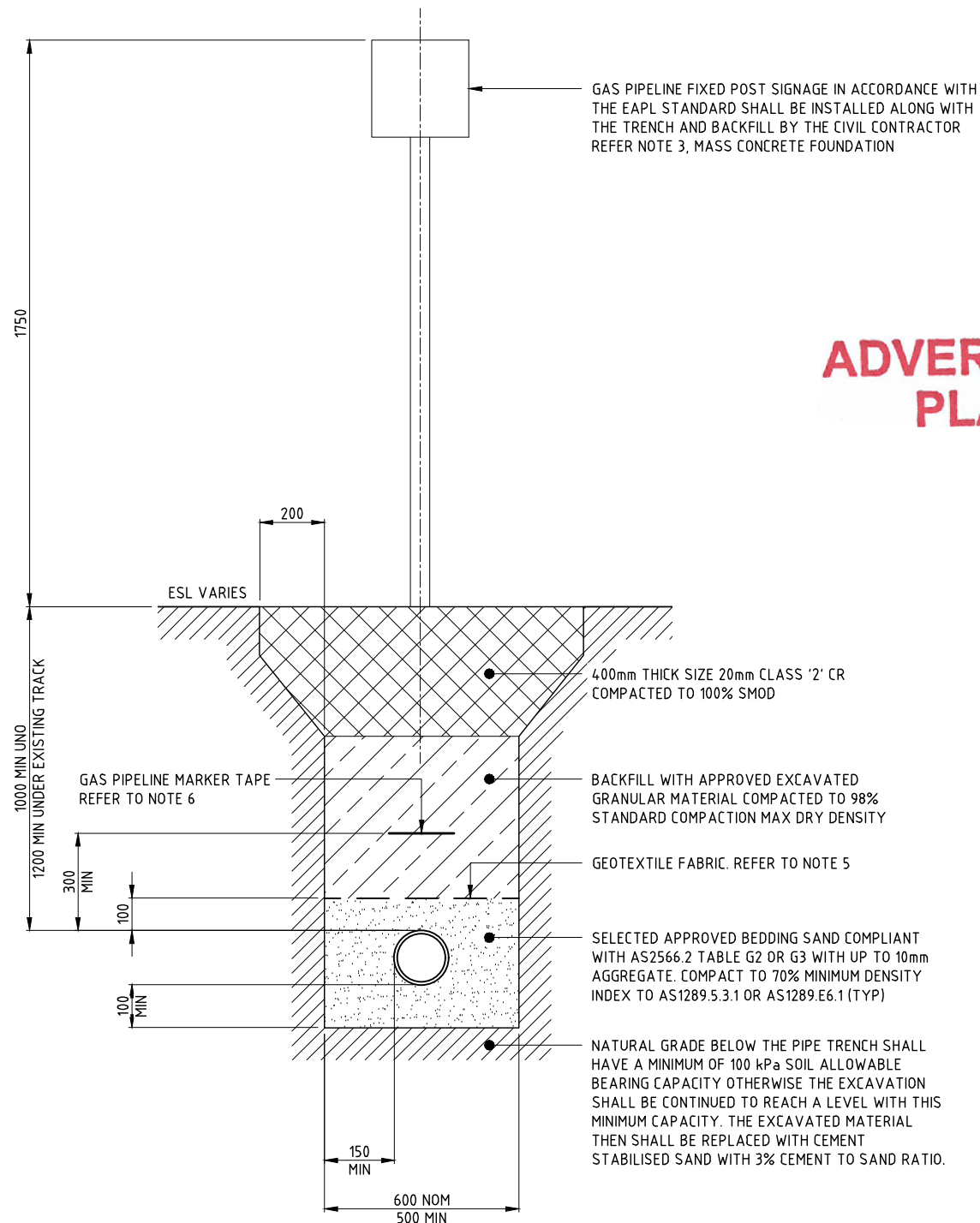
SECTION C
SCALE 1:10 SKE-002

PROVIDE BENCHED EXCAVATIONS WHERE TRENCH DEPTH IS GREATER THAN 1400mm AND/OR TRENCH SIDES ARE PRONE TO COLLAPSE



NOTE:
SIMILAR DETAIL APPLIES AT ANCHOR BLOCK AND 'BELL HOLES' FOR CONSTRUCTION AND WELDING LOCATIONS NOTED ON 032557-205-CIV-SKE-002

TYPICAL BENCHED EXCAVATION DETAIL
SCALE 1:20



TYPICAL PIPE TRENCH IN PLANT NON-RATED TRAFFICABLE AREA

SECTION D
SCALE 1:10 SKE-002

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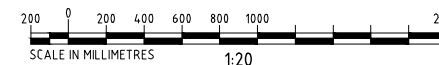
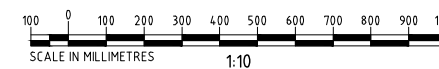
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PIPELINE TRENCH NOTES:

- REFER TO GEOTECHNICAL INVESTIGATION INTERPRETIVE REPORT No. V2129R1 DECEMBER 2021 FOR INFORMATION ON EXISTING SITE GEOTECHNICAL CONDITIONS
- REFER TO AUE UNDERGROUND SURVEY DRAWINGS #1 THRU #6 DATED 13 DEC 2021 FOR GUIDANCE ON EXISTING UNDERGROUND SERVICES. THE CIVIL CONTRACTOR SHALL BE RESPONSIBLE TO DISCOVER THESE AND ANY OTHER EXISTING SERVICES CROSSING OR CLOSE TO THE TRENCH TO ENSURE THE INTEGRITY OF THE EXISTING SITE UNDERGROUND SERVICES AND TO WORK AROUND THE SERVICES FOR PIPE INSTALLATION.
- PIPELINE MARKER POSTS AND SIGN TO BE PROVIDED TO EAPL STANDARD AT MAXIMUM 250M CENTRES AND AT ALL FENCE BOUNDARIES, PROPERTY BOUNDARIES AND CHANGES IN DIRECTION. POSTS SHALL BE 60mm MINIMUM CHS OR SHS WITH DOUBLE SIGNS AND DOUBLE SIDED ALUMINIUM TAMPER PROOF ANTIVANDAL MOUNTING BRACKET WITH BOLTS
- WHERE NOTED ON TRENCH SECTIONS THE BEDDING SAND SHALL BE REPLACED WITH CLSM 3% CEMENT STABILISED SAND WHERE TRENCH IS SANDY AND EMBEDMENT MATERIAL IS AGGREGATE OR IF MORE THAN 85% OF THE TRENCH FILL IS FINER THAN 2mm, OR MORE THAN 15% OF THE TRENCH FILL IS FINER THAN 0075mm, GEOTEXTILE FABRIC SHALL BE POSITIONED AS A BARRIER TO SEPARATE THE MATERIALS
- PIPELINE MARKER TAPE SHALL BE INSTALLED WHERE SPECIFIED ON THE SECTIONS. REFER EAPL STANDARD & IN ACCORDANCE WITH AS/NZS 2648.1. TAPE COLOUR TO BE YELLOW AND LETTERING TO BE CONTINUOUS BLACK
- ROAD BACKFILL MATERIAL AND CONSTRUCTION SHALL COMPLY WITH THE VIC ROADS SPECIFICATIONS FOR MAIN ARTERIAL ROADS. SPECIFIED ROAD COMPACTION TESTING SHALL COMPLY WITH AS 1289.6.1.1 AND AS1289.E1.1

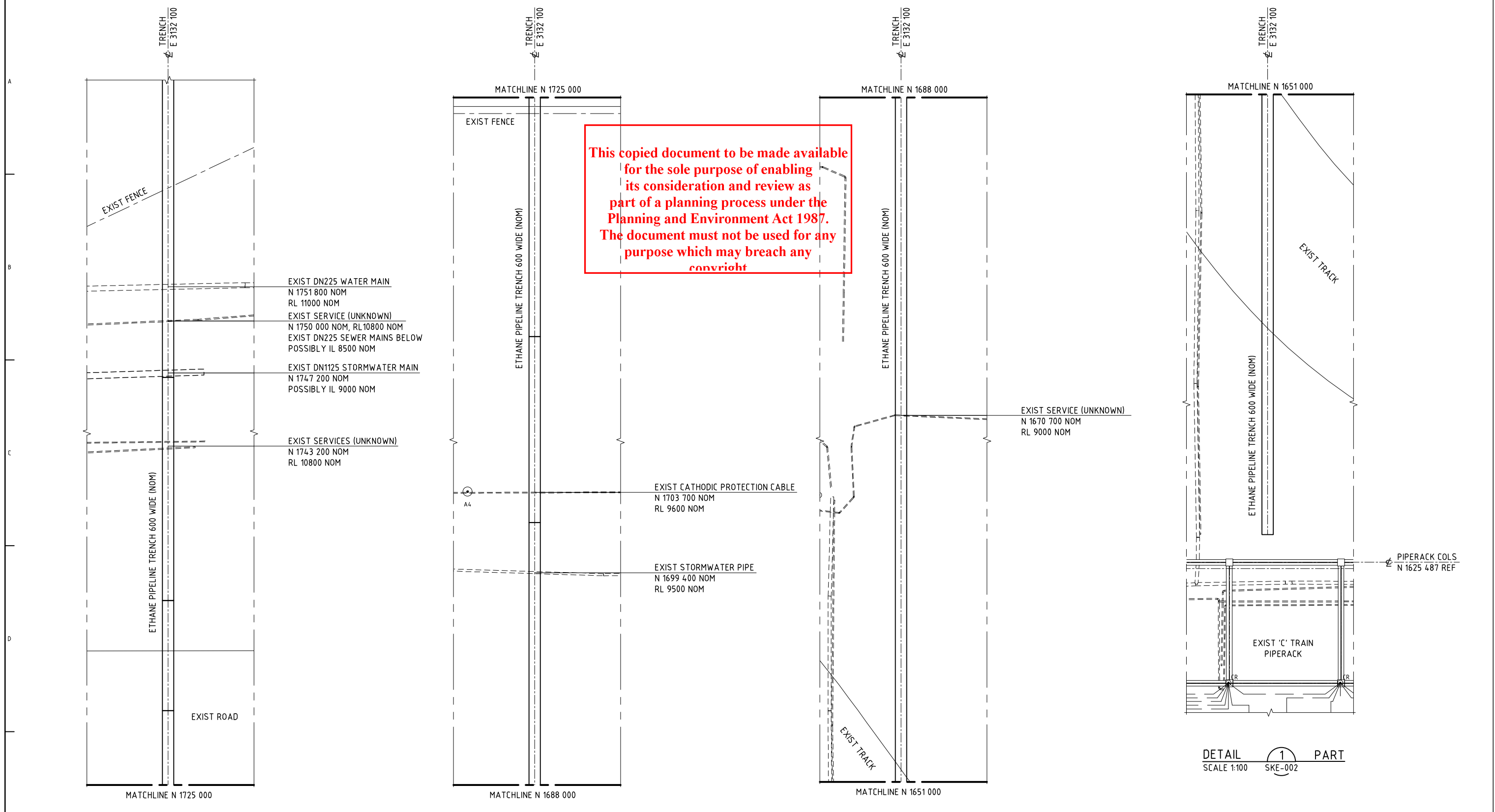
NOTES:

- FOR GENERAL NOTES REFER DRG 032557-205-CIV-SKE-001.



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NOT FOR CONSTRUCTION

wood.										Esso Australia Pty Ltd		LONG ISLAND POINT ETHANE DISPOSITION PROJECT UNDERGROUND PIPELINE TRENCH ALIGNMENT - CROSS SECTIONS											
(CAD)A1										032557-205-CIV-SKE-002		TRENCH ALIGNMENT - PLAN											
PROJECT MANAGER	NICK ZED	E1	01/02/22	ISSUED FOR ENQUIRY	GA	HRP	HRP	WOOD	ESSO ENGINEER	032557-205-CIV-SKE-001		GENERAL NOTES											
JOB No	032557	REFERENCE No	032557-205-CIV-SKE-004	REV No	DATE	REVISION	PRJ No	DRAWN	DRAFTING CHECKED	DESIGNED	ENGINEERING CHECKED	DESIGN APPROVED	CONSULTANT	ESSO APPROVED	SIGNATURE	DATE	DRAWING No	REFERENCE DRAWINGS	SCALE AS SHOWN	DRG No	032557-205-CIV-SKE-004	REV	E1



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DETAIL 1 PART
SCALE 1:100 SKE-002

DETAIL 1 PART
SCALE 1:100 SKE-002

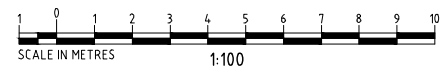
DETAIL 1 PART
SCALE 1:100 SKE-002

DETAIL 1 PART
SCALE 1:100 SKE-002

- NOTES:**
- FOR GENERAL NOTES REFER DRG 032557-205-CIV-SKE-001.
 - ALL COORDINATES AND LEVELS TO EXISTING SERVICES ARE APPROXIMATE ONLY.

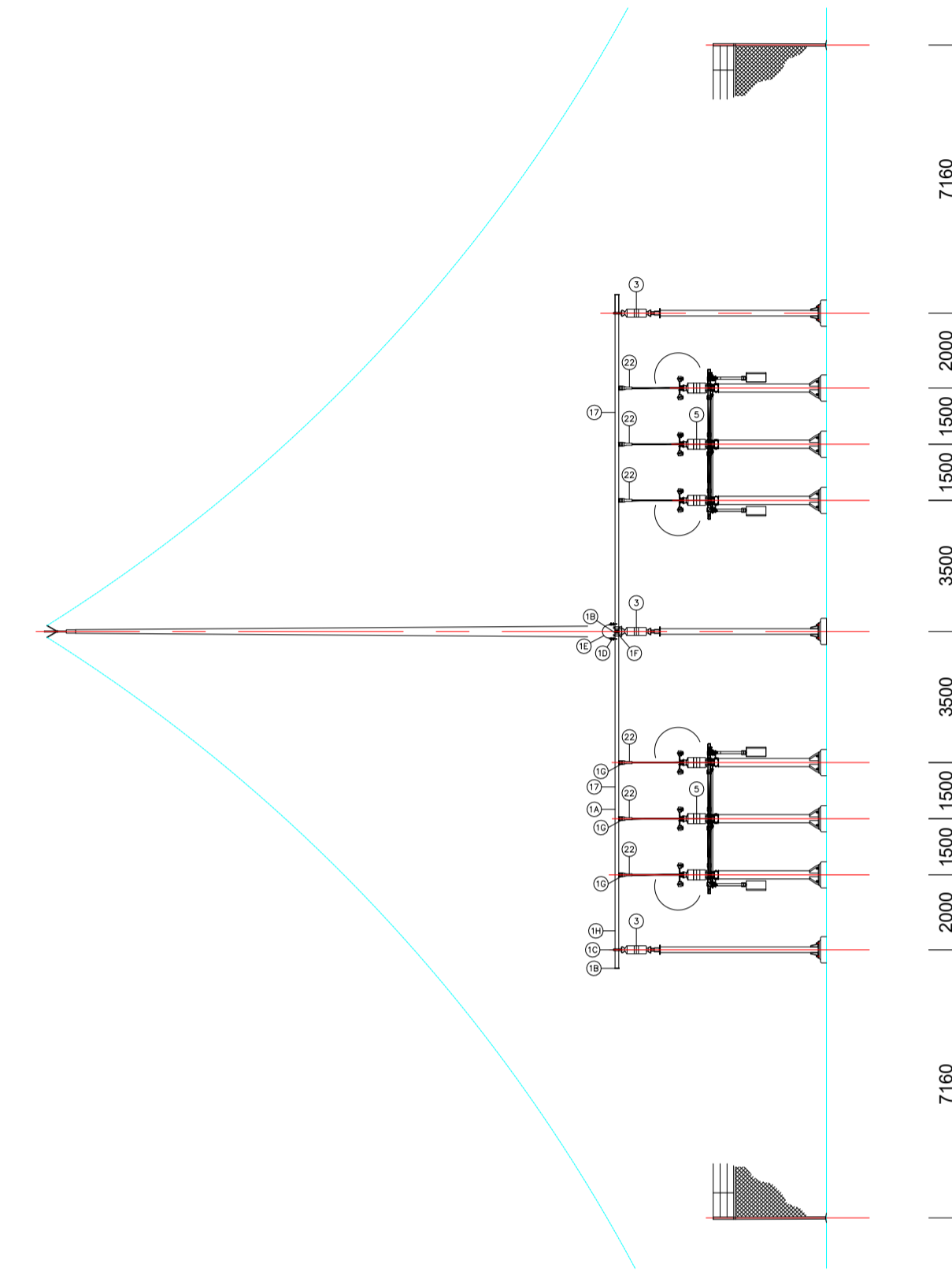
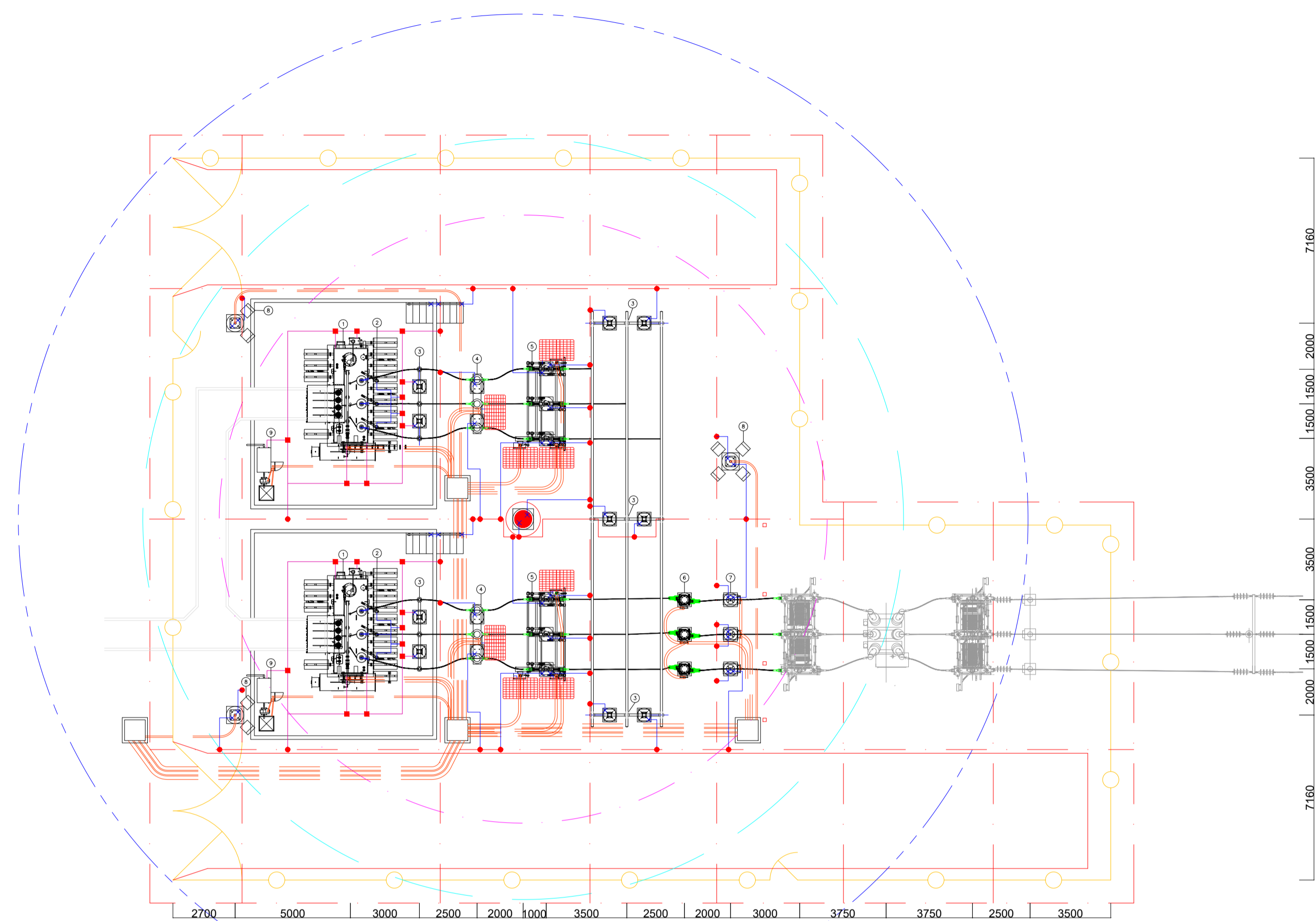
ADVERTISED
PLAN

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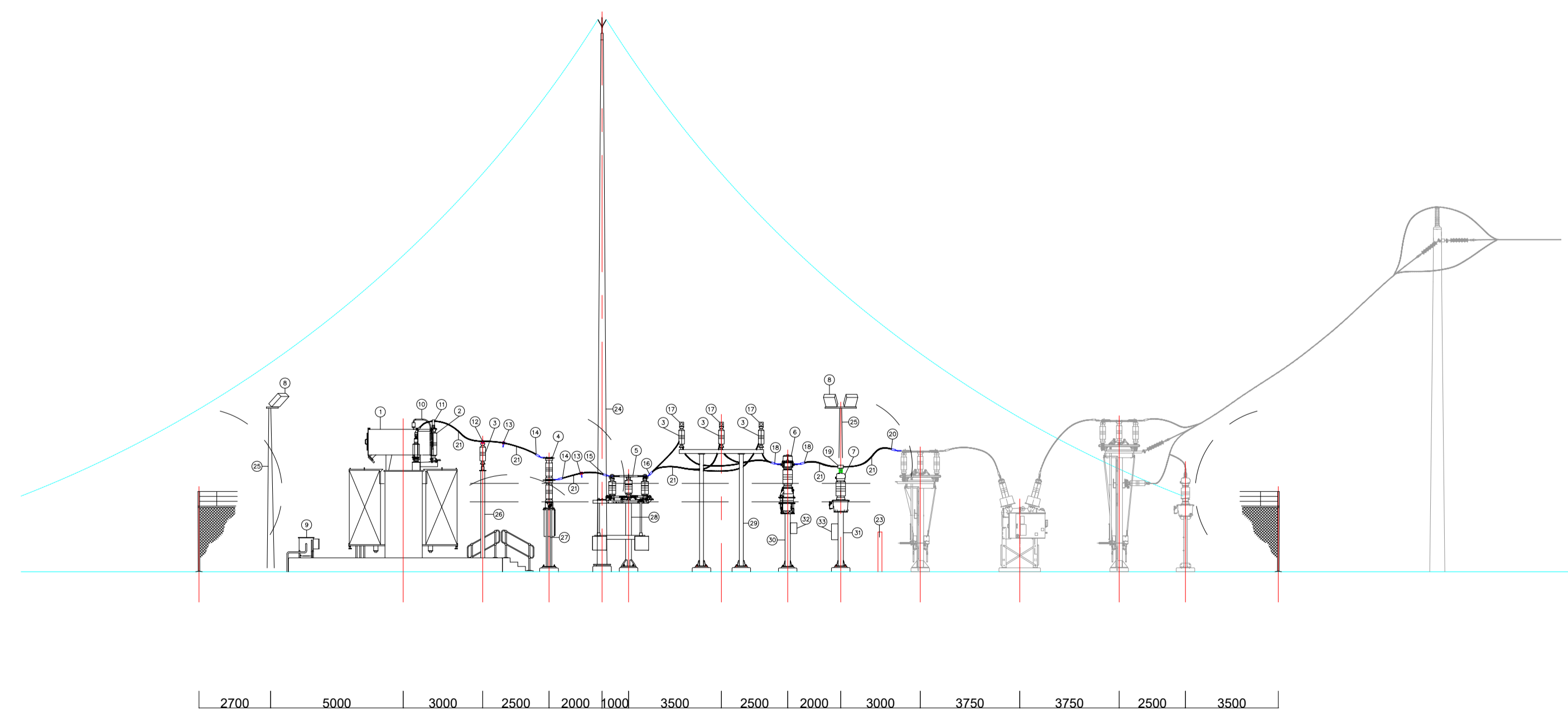


wood.												Esso Australia Pty Ltd		LONG ISLAND POINT ETHANE DISPOSITION PROJECT UNDERGROUND PIPELINE TRENCH ALIGNMENT - DETAILS SHT 1					
PROJECT MANAGER NICK ZED		E1 01/02/22 ISSUED FOR ENQUIRY		GA		HRP		HRP		WOOD		ESSO ENGINEER		032557-205-CIV-SKE-002 TRENCH ALIGNMENT - PLAN		032557-205-CIV-SKE-001 GENERAL NOTES			
JOB No 032557	REFERENCE No 032557-205-CIV-SKE-006	REV No	DATE	REVISION	PRJ No	DRAWN	DRAFTING CHECKED	DESIGNED	ENGINEERING CHECKED	DESIGN APPROVED	CONSULTANT	ESSO APPROVED	SIGNATURE	DATE	DRAWING No	REFERENCE DRAWINGS	SCALE 1:100 UNO	DRG No 032557-205-CIV-SKE-006	REV E1

ADVERTISED PLAN



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ITEM	QTY	DESCRIPTION	REF DRAWING	SPEC	MANUFACTURER	COMMENTS
1	2	POWER TRANSFORMER, 2500VA, 250V/110V	18A	1000-16	MILSONS	POWERPLANT ORGA
1A	6	6KV SURGE ARRESTER, 10.5KV, 100KA, 1000VDC	-	1000-16	HRE	-
1B	6	BUSBAR END CAP FOR 100MM DIA TUBE	-	8802-107-F17	HRE	-
1C	6	BUSBAR SUPPORT (SUSPENSION) INSULATOR TYPE	-	8804-001-017	HRE	107 FMS
1D	6	BUSBAR PALM TRANSVERSE	-	8804T-100-455	HRE	-
1E	3	ALUMINIUM FEMALE CONNECTOR, TYPE B	-	1280-100-455	HRE	107 FMS
1F	3	BUSBAR SUPPORT (SUSPENSION) CONNECTOR	-	8804-100-F17	HRE	-
1G	6	BUSBAR ALUMINIUM PALM PLATE	-	8804-455	HRE	-
1H	6	BRASS PIN CONNECTOR (SUSPENSION) 80% LOAD, INCLUDES ONE END OF TUBE	-	-	HRE	-
2	6	6KV SURGE ARRESTER, 10.5KV, 100KA, 1000VDC	18A	1000-16	MILSONS	POWERPLANT ORGA
3	15	6KV POST INSULATOR, 10.5KV, 100KA, 1000VDC, 1000VDC	18A	1000-16	MILSONS	POWERPLANT ORGA
4	2	6KV CIRCUIT BREAKER, 72.5KV, 2000AMP, 31.5KA, 1000VDC, 1000VDC	18A	1000-16	MILSONS	POWERPLANT ORGA
5	2	6KV DISCONNECTOR, 72.5KV, 2000AMP, 31.5KA, 1000VDC, 1000VDC	18A	1000-16	MILSONS	POWERPLANT ORGA
6	3	6KV CURRENT TRANSFORMER, 250VA, 250V/5A	18A	1000-16	MILSONS	POWERPLANT ORGA
7	3	6KV VOLTAGE TRANSFORMER, 250VA, 250V/110V	18A	1000-16	MILSONS	POWERPLANT ORGA
8	8	6KV FUSIBLE SWITCH, 1000A, 1000VDC	18A	1000-16	MILSONS	POWERPLANT ORGA
9	2	6KV FUSIBLE SWITCH, 1000A, 1000VDC	18A	1000-16	MILSONS	POWERPLANT ORGA
10	6	COMPRESSION TERMINAL PALM, SINGLE "T"TYPE, PALM ANGLE 90°, TUBE ANGLE 90°, 4 INCHES, 1.5MM DIA @ 1000 CENTRES	18A	1000-16	MILSONS	POWERPLANT ORGA
11	6	INSULATED BUS PALM TAP	18A	1000-16	MILSONS	POWERPLANT ORGA
12	6	INSULATED BUS POST INSULATOR	18A	1000-16	MILSONS	POWERPLANT ORGA
13	12	COMPRESSION TERMINAL PALM, SINGLE "T"TYPE, PALM ANGLE 90°, TUBE ANGLE 90°, 4 INCHES, 1.5MM DIA @ 1000 CENTRES	18A	1000-16	MILSONS	POWERPLANT ORGA
14	12	COMPRESSION TERMINAL PALM, SINGLE "T"TYPE, PALM ANGLE 90°, TUBE ANGLE 90°, 4 INCHES, 1.5MM DIA @ 1000 CENTRES	18A	1000-16	MILSONS	POWERPLANT ORGA
15	6	COMPRESSION TERMINAL PALM, SINGLE "T"TYPE, PALM ANGLE 90°, TUBE ANGLE 90°, 4 INCHES, 1.5MM DIA @ 1000 CENTRES	18A	1000-16	MILSONS	POWERPLANT ORGA
16	6	COMPRESSION TERMINAL PALM, SINGLE "T"TYPE, PALM ANGLE 90°, TUBE ANGLE 90°, 4 INCHES, 1.5MM DIA @ 1000 CENTRES	18A	1000-16	MILSONS	POWERPLANT ORGA
17	3	TUBULAR BUSBAR ASSEMBLY, 1000A, 1000VDC, COMPLETE WITH HV FITTINGS AND CURRENT PARTS	18A	1000-16	MILSONS	POWERPLANT ORGA
18	6	COMPRESSION TERMINAL PALM, SINGLE "T"TYPE, PALM ANGLE 90°, TUBE ANGLE 90°, 4 INCHES, 1.5MM DIA @ 1000 CENTRES	18A	1000-16	MILSONS	POWERPLANT ORGA
19	3	INSULATED BUS PALM TAP	18A	1000-16	MILSONS	POWERPLANT ORGA
20	3	COMPRESSION TERMINAL PALM, SINGLE "T"TYPE, PALM ANGLE 90°, TUBE ANGLE 90°, 4 INCHES, 1.5MM DIA @ 1000 CENTRES	18A	1000-16	MILSONS	POWERPLANT ORGA
21	12mm	TUBULAR BUSBAR ASSEMBLY, 1000A, 1000VDC, COMPLETE WITH HV FITTINGS AND CURRENT PARTS	18A	1000-16	MILSONS	POWERPLANT ORGA
22	9	COMPRESSION TERMINAL PALM, SINGLE "T"TYPE, PALM ANGLE 90°, TUBE ANGLE 90°, 4 INCHES, 1.5MM DIA @ 1000 CENTRES	18A	1000-16	MILSONS	POWERPLANT ORGA
23	4	BOLLARD LIGHTING SQUARE, 1.5m	18A	1000-16	MILSONS	POWERPLANT ORGA
24	1	6KV LIGHTING MAST COMPLETE WITH 6KV SPIRE	18A	1000-16	MILSONS	POWERPLANT ORGA
25	3	6KV LIGHTING MAST COMPLETE WITH 6KV SPIRE	18A	1000-16	MILSONS	POWERPLANT ORGA
26	2	SUPPORT STRUCTURE, 6KV POST INSULATOR 1 PHASE, 2000MM HIGH	18A	1000-16	MILSONS	POWERPLANT ORGA
27	2	SUPPORT STRUCTURE, 6KV CIRCUIT BREAKER 1 PHASE SUPPLIED BY ABB	18A	1000-16	MILSONS	POWERPLANT ORGA
28	2	SUPPORT STRUCTURE, 6KV DISCONNECTOR 1 PHASE SUPPLIED BY ABB	18A	1000-16	MILSONS	POWERPLANT ORGA
29	2	SUPPORT STRUCTURE, 6KV POST INSULATOR 1 PHASE, 2000MM HIGH	18A	1000-16	MILSONS	POWERPLANT ORGA
30	3	SUPPORT STRUCTURE, 6KV CURRENT TRANSFORMER 1 PHASE, 2000MM HIGH	18A	1000-16	MILSONS	POWERPLANT ORGA
31	3	SUPPORT STRUCTURE, 6KV VOLTAGE TRANSFORMER 1 PHASE, 2000MM HIGH	18A	1000-16	MILSONS	POWERPLANT ORGA
32	2	6KV FUSIBLE SWITCH, 1000A, 1000VDC	18A	1000-16	MILSONS	POWERPLANT ORGA
33	8	6KV FUSIBLE SWITCH, 1000A, 1000VDC	18A	1000-16	MILSONS	POWERPLANT ORGA
34	6	6KV FUSIBLE SWITCH, 1000A, 1000VDC	18A	1000-16	MILSONS	POWERPLANT ORGA

DESIGNED	PP (GH)	25/11/21
DRAWN	EHV (GS)	25/11/21
CHECKED	WT (SB)	-
APPROVED	GH	25/11/21
DATE	CHKD.	APP.
PRINTED		

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TITLE: HV SWITCHYARD CONCEPT LAYOUT

PROJECT:	LONG ISLAND POINT POWER STATION
SCALE:	N.T.S.
DWG No.	
REV	