

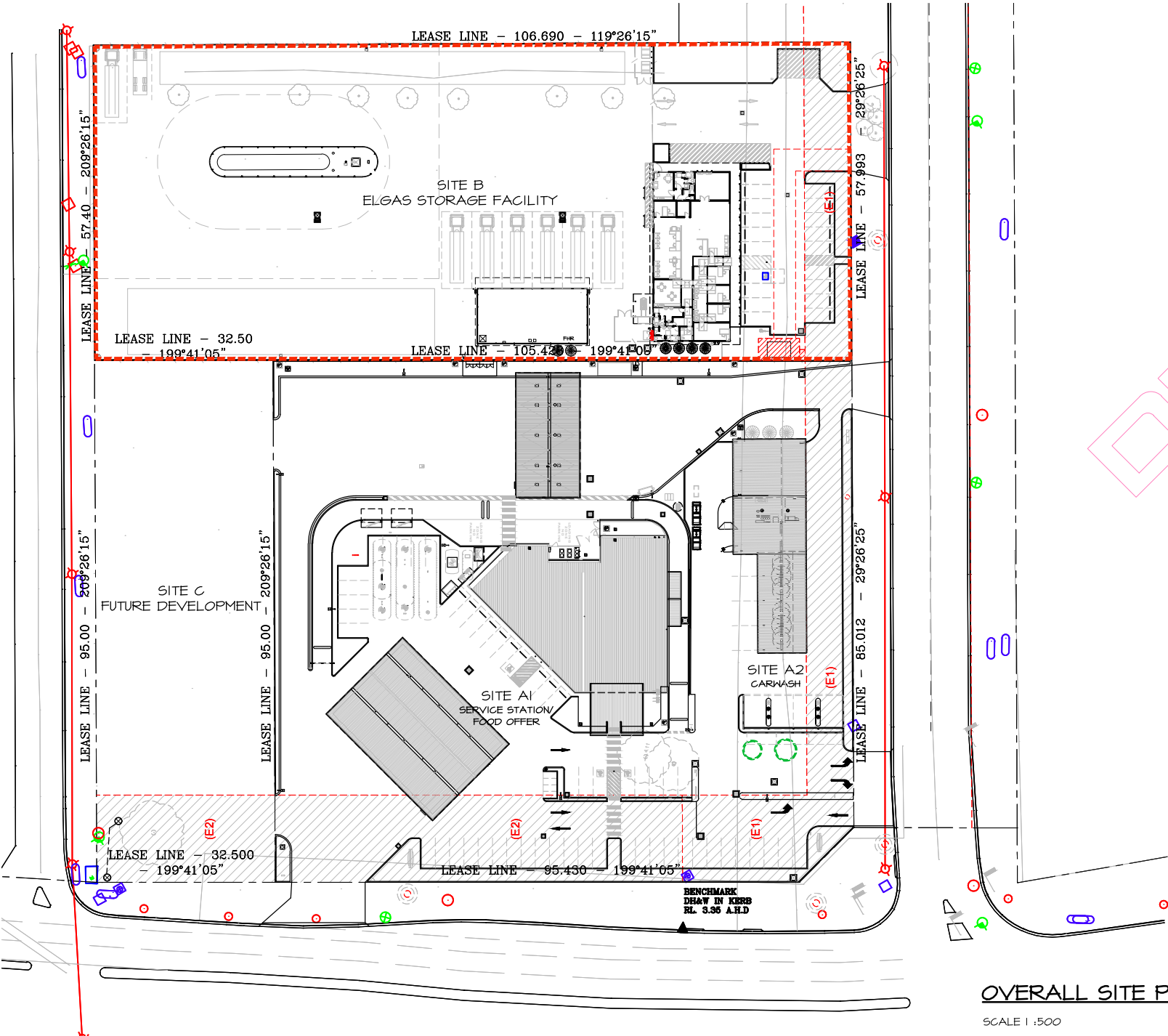
ELGAS STORAGE FACILITY

Part Lot 1 DP 1195449 CORMORANT ROAD Cnr. EGRET STREET

KOORAGANG NSW

FOR

SOVECHLES NOMINEES Pty Ltd

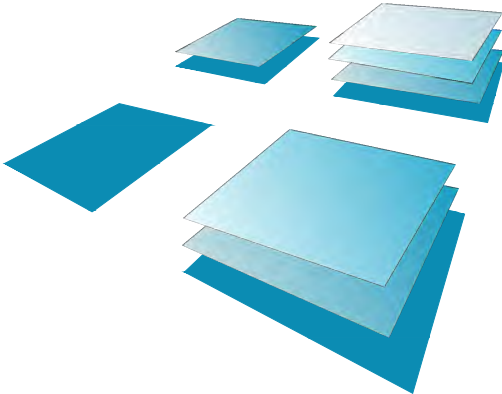


OVERALL SITE PLAN

SCALE 1:500

DRAWING SCHEDULE - DEVELOPMENT APPLICATION

ARCHITECTURAL	GA 00	COVER SHEET & DRAWING SCHEDULE
	GA 01	SITE PLAN
	GA 03	SITE DIMENSIONING PLAN
	GA 10	OFFICE BUILDING FLOOR PLAN
	GA 11	OFFICE BUILDING DIMENSIONING PLAN
	GA 12	ROOF PLAN
	GA 20	OFFICE BUILDING ELEVATIONS
	GA 21	OFFICE BUILDING SECTIONS
	GA 30	CYLINDER FILLING DOCK PLAN, SECTION & ELEVATIONS
TURNING STUDIES	TS 01	TURNING STUDY - B-DOUBLE
	TS 02	TURNING STUDY - 12m RIGID
	TS 03	TURNING STUDY - DELIVERY BAY
LANDSCAPE	L 01	LANDSCAPE SITE PLAN
	L 02	LANDSCAPE BEDDING PLANS
STORMWATER	SD 01	STORMWATER DRAINAGE PLAN
	SD 02	STORMWATER SCHEDULES AND DETAILS SHEET 1
	SD 03	STORMWATER DETAILS SHEET 2
CNSTRCT. MANAGEMENT	CMP01	CONSTRUCTION MANGEMENT PLAN
	CMP02	CONSTRUCTION MANAGEMENT NOTES & DETAILS
SURVEY	3005-DET	DETAIL & CONTOUR SURVEY
	4499-DP	PLAN OF SUBDIVISION OF LOTS 10 & 11 D.P.1144748



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NOT FOR CONSTRUCTION

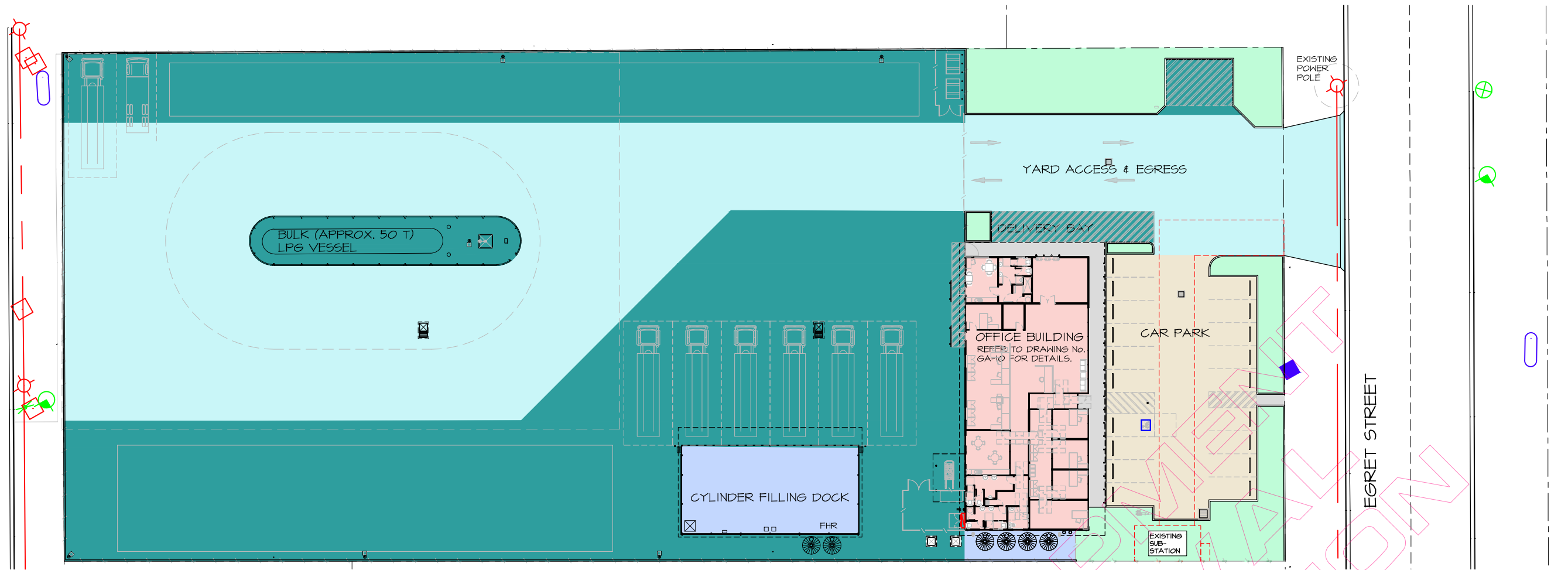
R.J. SINCLAIR Pty Ltd
Building Design

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Multi-Discipline Design + Project Management

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Accredited Building Designer : 6318
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SITE PAVEMENT FINISHES PLAN

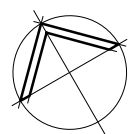
PAVEMENT AREAS	
TOTAL SITE AREA :	7958m ²
180 THICK CONCRETE PAVEMENT	2801m ²
180 THICK DRIVEWAY CROSSING (OUTSIDE SITE)	110m ²
150 THICK CONCRETE PAVEMENT	3418m ²
100 THICK BLACK CONCRETE FOOTPATH	83m ²
ASPHALTIC CONCRETE	475m ²
BUILDING	430m ²
GRAVEL	261m ²
LANDSCAPE	442m ²
EXISTING SUBSTATION	12m ²

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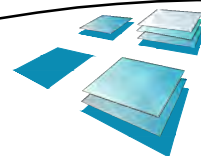
SCALE BAR 1 : 1 On A1 Size Original

SCALE BAR 1 : 2 On A3 Size Reduction

No.	Amendment	By	Date
P2	REVISED PRELIMINARY ISSUE. NOT FOR CONSTRUCTION.	AST	11.12.2014
P3	REVISED PRELIMINARY ISSUE. NOT FOR CONSTRUCTION.	VP	17.04.2015
P4	AMENDED TO SUIT ELGAS REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL. NOT FOR CONSTRUCTION.	AST	05.04.2017
P5	CLIENT NAME CHANGED, TRAFFIC ISLAND ADDED ON EXIT SIDE OF ELECTRIC OPERATED GATES. REVISED DRAFT DA SET FOR APPROVAL. NOT FOR CONSTRUCTION.	AST	11.04.2017
P6	AMENDED TO SUIT CLIENT REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL. ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION.	VP	04.05.2017
DA1	DUMP TANK REMOVED. ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION.	AST	06.06.2017
DA2		AST	21.06.2017



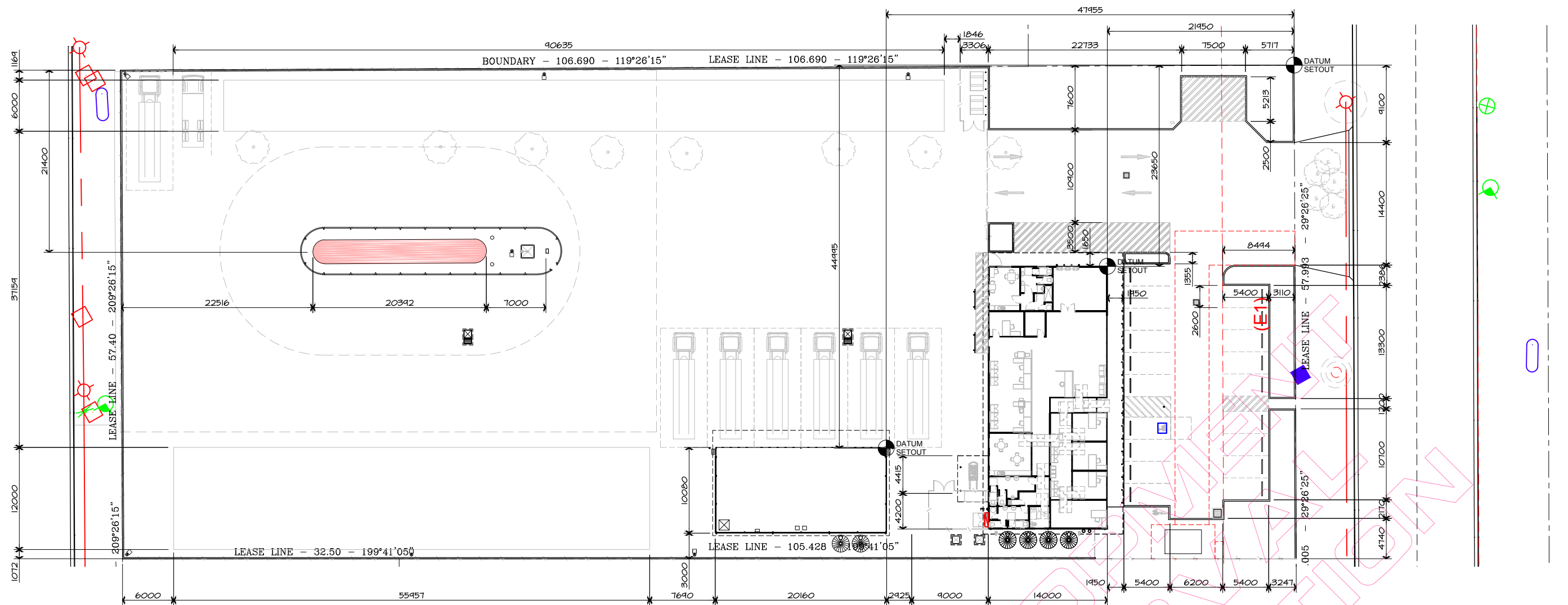
Chartered Member:
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Victoria : RBP DP-AD 15329
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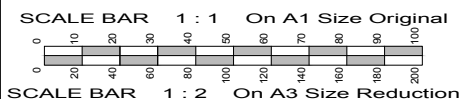
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Project
ELGAS STORAGE FACILITY
Part Lot 1 DP 1145444 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
SITE PAVEMENT FINISHES PLAN

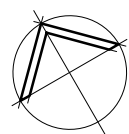
Approved	Designed
Date	Drawn
4th DECEMBER 2014	AST
Scale	Checked
1 : 250 @ A1 1 : 500 @ A3	
Project No.	Drawing No.
14 - 002	GA - 02
	Amdt.
	DA2



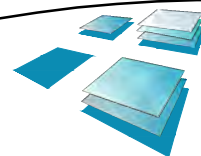
SITE DIMENSIONING PLAN



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No.	Amendment	By	Date		
P1	PRELIMINARY ISSUE, NOT FOR CONSTRUCTION.	VP	17.04.2015		
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P5	AMENDED TO SUIT CLIENT REQUIREMENTS, REVISED DRAFT DA SET FOR APPROVAL, ISSUED FOR DEVELOPMENT APPROVAL, NOT FOR CONSTRUCTION.	VP	04.05.2017		
DA1	DUMP TANK REMOVED, ISSUED FOR DEVELOPMENT APPROVAL, NOT FOR CONSTRUCTION	AST	06.06.2017		
DA2		AST	21.06.2017		



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Project
ELGAS STORAGE FACILITY
Part Lot 1 DP 1145444 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
SITE DIMENSIONING PLAN

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION

Approved	Designed
Date	13th MARCH 2015
Scale	1 : 250 @ A1 1 : 500 @ A3
Project No.	14 - 002
Drawing No.	GA - 03
Amdt.	DA2

PAINTED LINE MARKING ON PAVEMENT

1800 HIGH HEAVY DUTY PALISADE ELECTRICALLY OPERATED SLIDING SECURITY GATES AND FENCE WITH 3 ROWS OF BARBED WIRE.

1800 HIGH HEAVY DUTY PALISADE ELECTRICALLY OPERATED SLIDING SECURITY GATE WITH 3 ROWS OF BARBED WIRE FOR FORKLIFT ACCESS.

SAFETY WALKWAY LINE MARKING PAINTED ON PAVEMENT

GALV. STEEL HANDRAIL AND 90 DIA. x 900 HIGH GALV. STEEL BOLLARDS AT 1800 MAX. CTS. AT EACH REAR ACCESS DOOR.

POWDERCOATED ALUMINIUM FRAMED WINDOWS. COLOUR BLACK.

PAINTED STEEL FRAMED SOLID CORE DOORS

OUTLINE OF ROOF OVER

COLORBOND SHEETING OVER STEEL FRAMED POSTS AND ROOF FRAMING TO FORKLIFT SHELTER

EXTEND FORKLIFT SHELTER ROOF OVER AIR COMPRESSOR.

ELECTRICAL SUB-BOARD WITH ADJACENT FIRE EXTINGUISHER

1800 HIGH COLORBOND FENCE AND GATES

PRESSURE PUMP WITH RAINBANK SYSTEM FOR SUPPLY TO WET STORMWATER PITS. REFER TO STORMWATER DRAWING No. SD - 01.

2 x 5000 LTR ABOVE GROUND POLY RAINWATER HARVESTING TANKS FOR WATER SUPPLY TO WET STORMWATER PITS. TANK OVERFLOW CONNECTED TO STORMWATER SYSTEM

2 x 5000 LTR ABOVE GROUND POLY RAINWATER HARVESTING TANKS FOR LANDSCAPE IRRIGATION. TANK OVERFLOW CONNECTED TO STORMWATER SYSTEM

LOADING/UNLOADING BAY

FOOTPATH

DISPLAY GOODS STORAGE

DISPLAY AREA
4 x GAS BAYONETS IN DISPLAY AREA. LOCATIONS T.B.C.

RECEPTION

ENTRY

OFFICE

REGIONAL OFFICE AREA

OFFICE

OFFICE

OFFICE

LANDSCAPING

LANDSCAPING

PROPOSED LINE OF RIGHT OF WAY EASEMENT FOR SUB-STATION

2 x REMOVABLE 90 DIA. x 1200 HIGH GALV. STEEL BOLLARD IN FRONT OF ROLLERDOOR.

150 DIA. x 1200 HIGH GALV. STEEL BOLLARD EACH SIDE OF ROLLERDOOR.

ALL EXTERNAL WALLS TO BE STEEL STUD EXTERNAL LINED WITH CORRUGATED COLORBOND SHEETING TO 900 FROM FFL AND PANTED FC ABOVE.

90 DIA. x 1200 HIGH GALV. STEEL BOLLARDS AT 1500 MAX. CTS.

BLACK CONCRETE FOOTPATH

FULL HEIGHT POWDERCOATED ALUMINIUM FRAMED SHOP FRONT GLAZING. COLOUR BLACK.

WHEEL STOPS

DISABLED PARKING SPACE AND SHARED SPACE ALL IN ACCORDANCE WITH AS 1428.1

POWDERCOATED ALUMINIUM FRAMED GLASS SWING ENTRY DOOR. COLOUR BLACK.

POWDERCOATED ALUMINIUM FRAMED GLASS WINDOW WALL OVER LOW COLORBOND GLAD WALL. COLOUR BLACK.

BICYCLE RACK

EXISTING SUB-STATION AND EASEMENT

1200 HIGH PALISADE FENCE FROM SECURITY FENCE TO FRONT BOUNDARY.

CONNECT ROOF DOWNPIPES TO RAINWATER HARVESTING TANKS

2 x 45kg LPG BOTTLES.

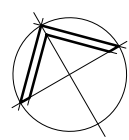
PRESSURE PUMP WITH RAINBANK SYSTEM FOR SUPPLY TO IRRIGATION.

SCALE BAR 1 : 1 On A1 Size Original

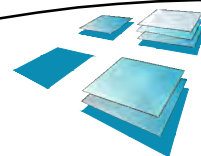
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No.	Amendment	By	Date
P5	FINAL DRAFT DA SET FOR APPROVAL ONLY. NOT FOR CONSTRUCTION.	VP	08.05.2015
P6	PRELIMINARY ISSUE FOR CLIENT COMMENT. NOT FOR CONSTRUCTION.	VP	31.08.2016
P7	MINOR AMENDMENTS. REVISED DRAFT DA SET FOR APPROVAL ONLY. NOT FOR CONSTRUCTION.	MJ	28.03.2017
P8	AMENDED TO SUIT ELGAS REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL. NOT FOR CONSTRUCTION.	AST	05.04.2017
P9	CLIENT NAME CHANGED, FINISHES REVISED, EXTRA BOLLARDS ADDED INFRONT OF ROLLERDOOR. REVISED DRAFT DA SET FOR APPROVAL. NOT FOR CONSTRUCTION.	AST	11.04.2017
P10	AMENDED TO SUIT CLIENT REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL.	VP	04.05.2017
DA1	ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION	AST	06.06.2017



Chartered Member:
BUILDING DESIGNERS AUSTRALIA
Victoria: RJP DP-AD 15329
Queensland: QBCC 1082914
Tasmania: APB 100000000
New Zealand: DP 13182



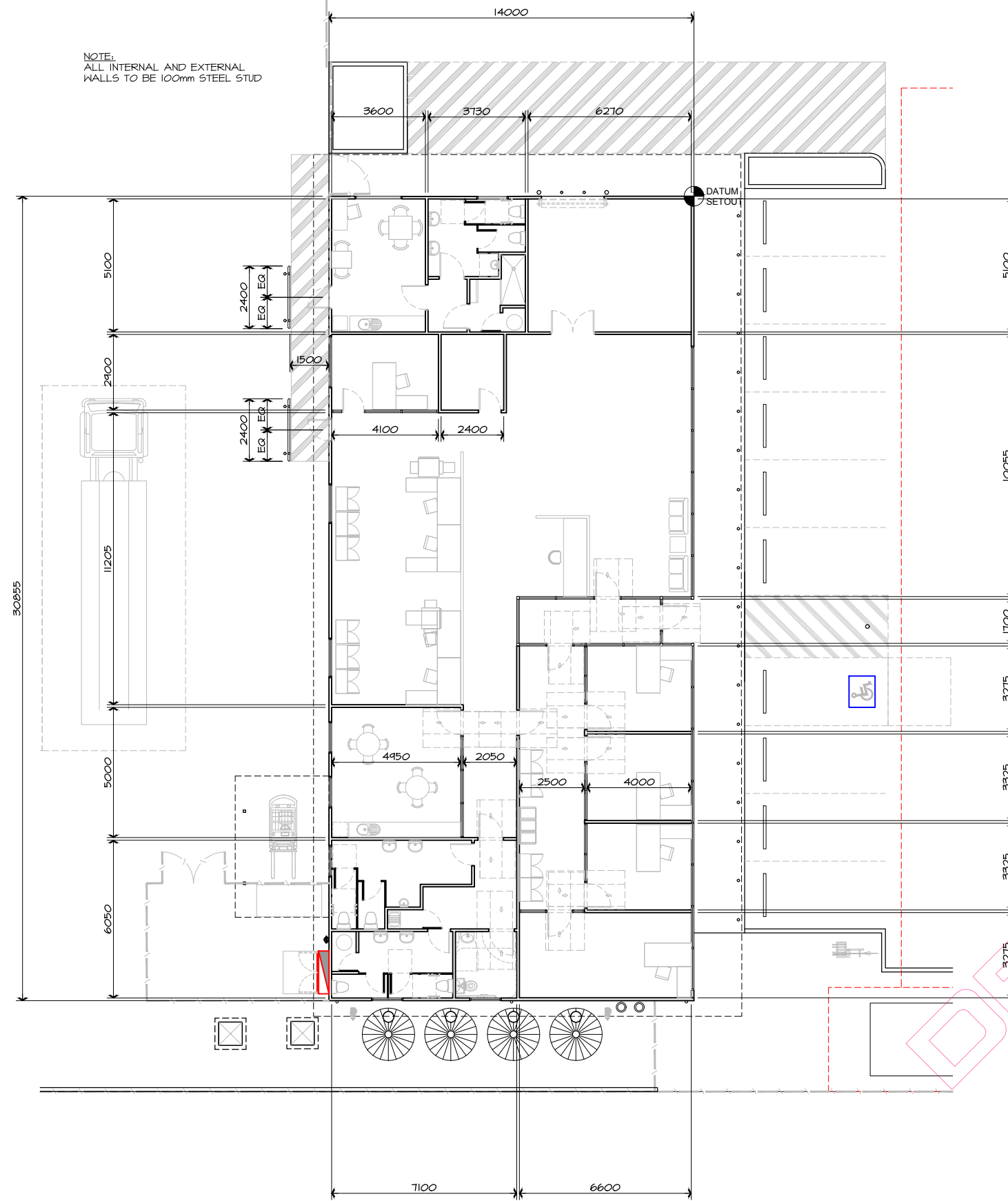
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Multi-Discipline Design - Project Management

Project
ELGAS STORAGE FACILITY
Part Lot 1 DP 1145444 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
OFFICE BUILDING FLOOR PLAN

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION

Approved	Designed
Date 4th DECEMBER 2014	Drawn AST
Scale 1 : 100 @ A1 1 : 200 @ A3	Checked
Project No. 14 - 002	Drawing No. GA - 10
	Amdt. DA1



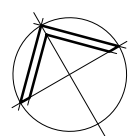
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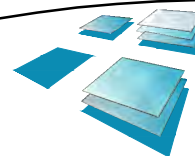
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P1	PRELIMINARY ISSUE. NOT FOR CONSTRUCTION.	VP	17.04.2015
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P4	AMENDED TO SUIT CLIENT REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL. NOT FOR CONSTRUCTION.	VP	04.05.2017
DAI	ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION	AST	06.06.2017



Chartered Member:
BUILDING DESIGNERS AUSTRALIA
Bella Vista NSW 2153
Victoria: RJP DP-AD 15329
Queensland: QBCC 1082914
Tasmania: AHP 10000011
New Zealand: DP 13182



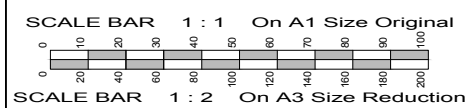
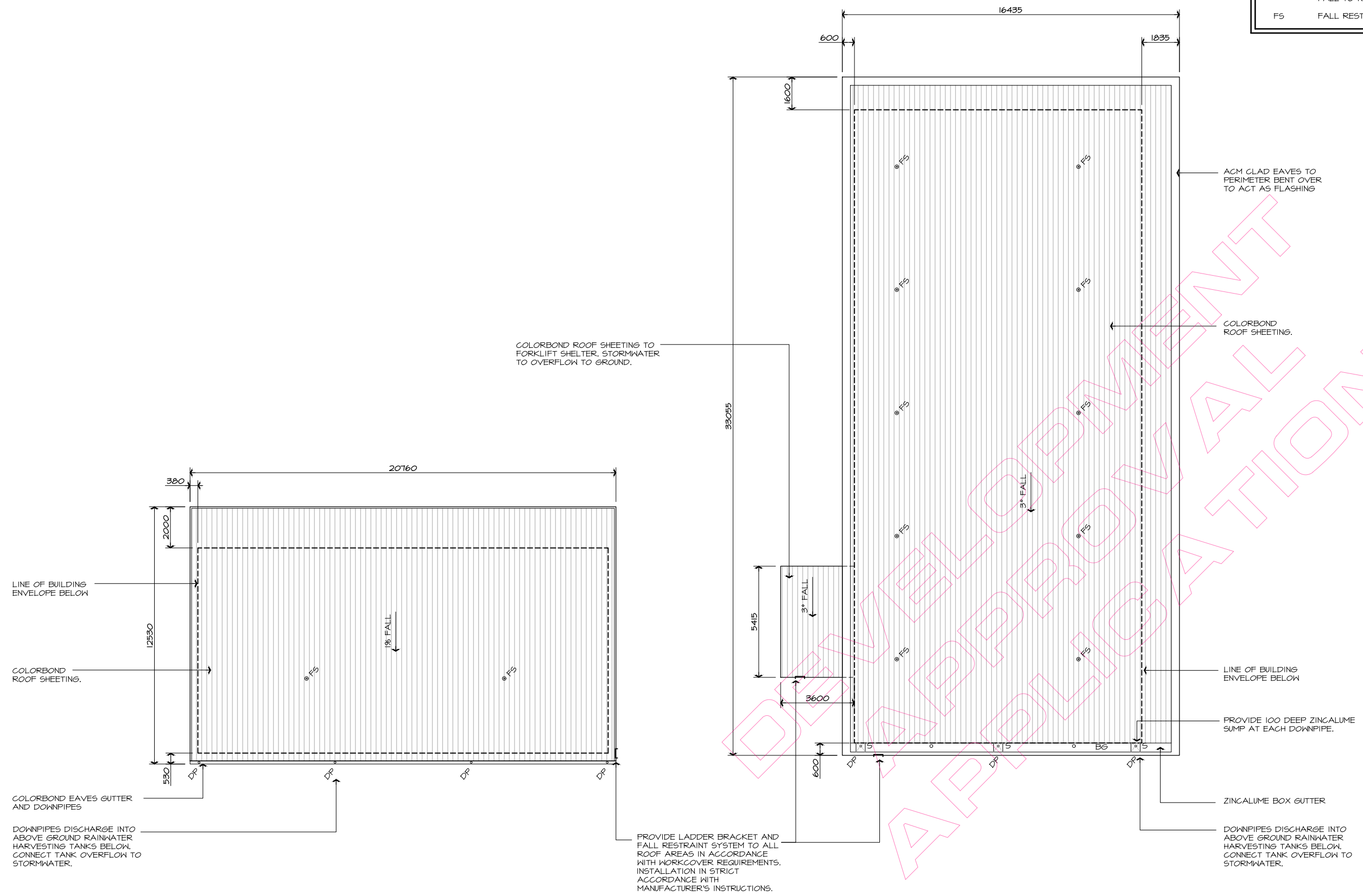
R.J. SINCLAIR Pty Ltd
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ELGAS STORAGE FACILITY
Part Lot 1 DP 1145444 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
OFFICE BUILDING DIMENSIONING PLAN

ISSUED FOR DEVELOPMENT APPROVAL
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Approved	Designed
Date	13th MARCH 2015
Scale	1 : 100 @ A1 1 : 200 @ A3
Project No.	14 - 002
Drawing No.	GA - 11
Amdt.	DAI

LEGEND:	
S	SUMP AS SPECIFIED
OF	OVERFLOW AS SPECIFIED.
BG	BOX GUTTER AS SPECIFIED. FALL TO NEAREST DP 1:100
FS	FALL RESTRAINT ANCHOR POINT.



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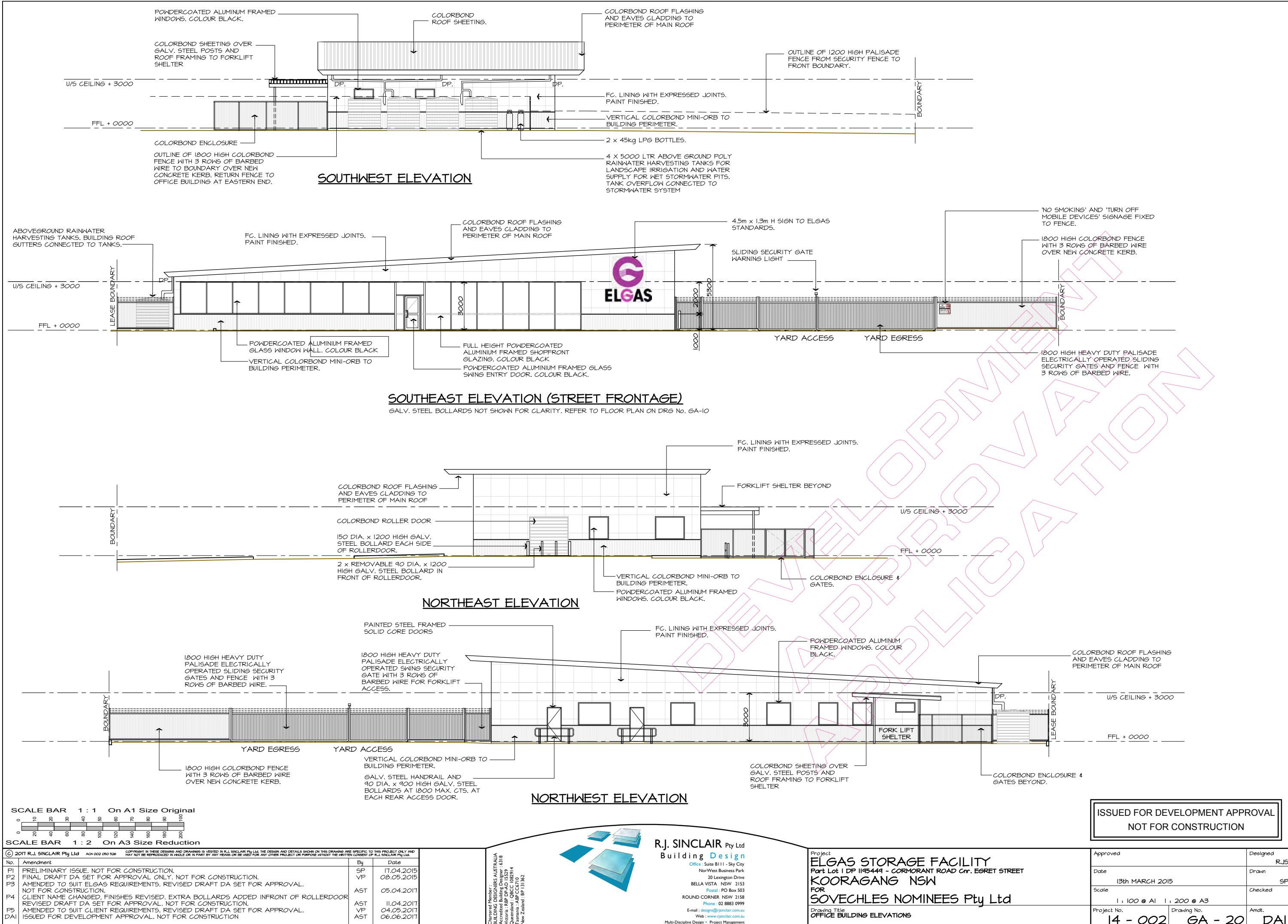
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P4		AMENDED TO SUIT CLIENT REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL.	VP	04.05.2017
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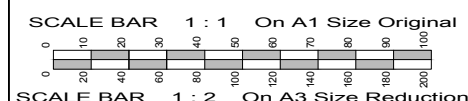
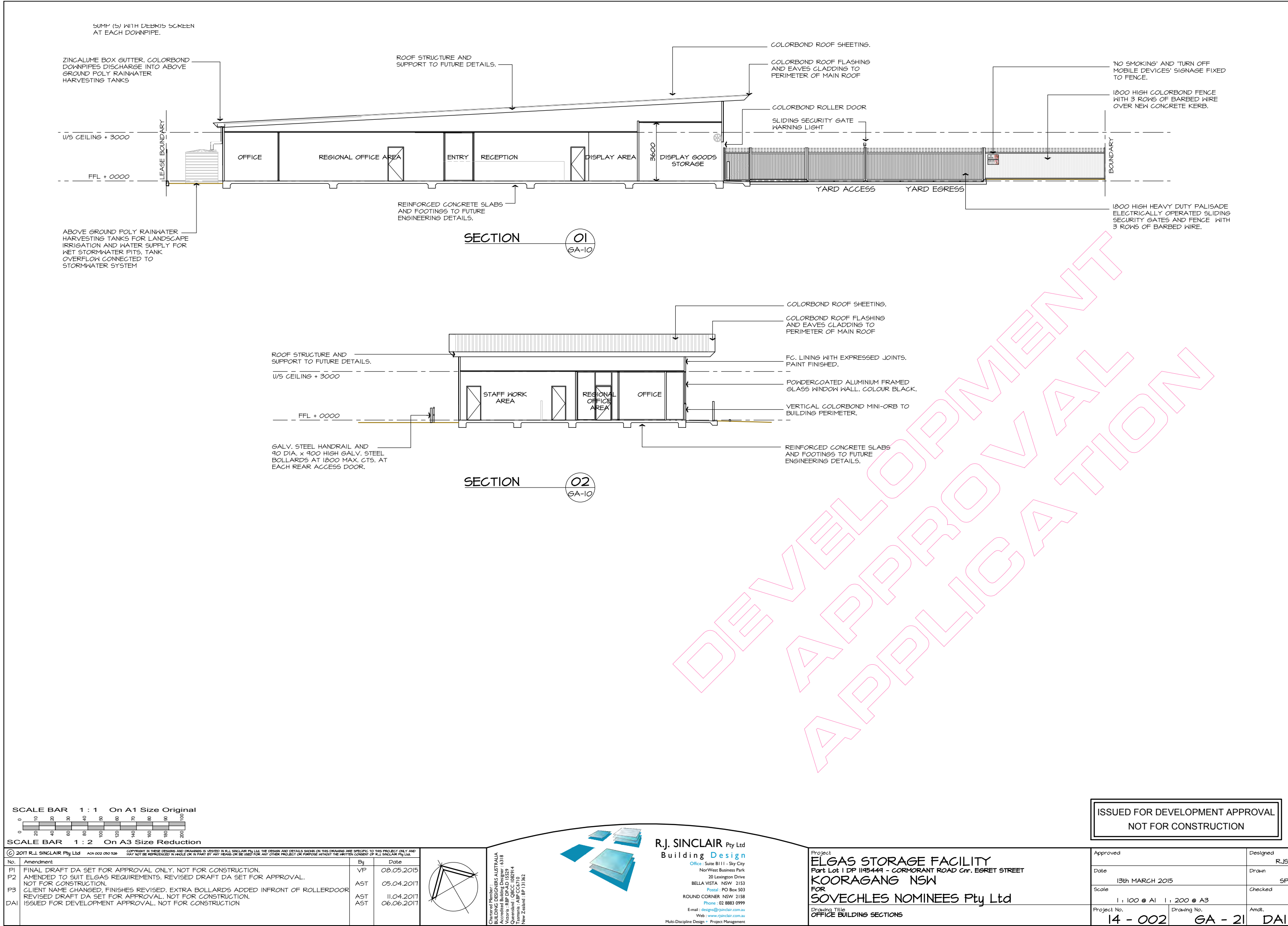
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SOVECHLES NOMINEES Pty Ltd

Drawing Title
ROOF PLAN

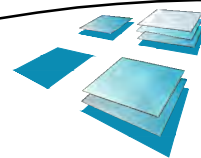
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14 - 002	GA - 12
	DAI





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P3	CLIENT NAME CHANGED, FINISHES REVISED. EXTRA BOLLARDS ADDED INFRONT OF ROLLERDOOR. REVISED DRAFT DA SET FOR APPROVAL. NOT FOR CONSTRUCTION.	AST	11.04.2017		
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Chartered Member:
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100 Victoria Road, Suite 101B
Victoria: RBP DP-AD 15329
Queensland: QBCC 1082914
Tasmania: APB 000000000
New Zealand: BRP 131362

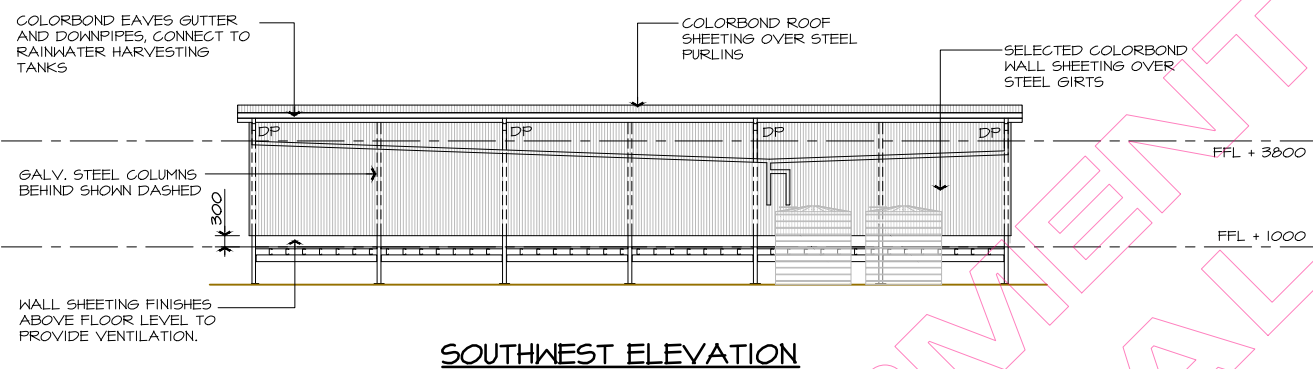
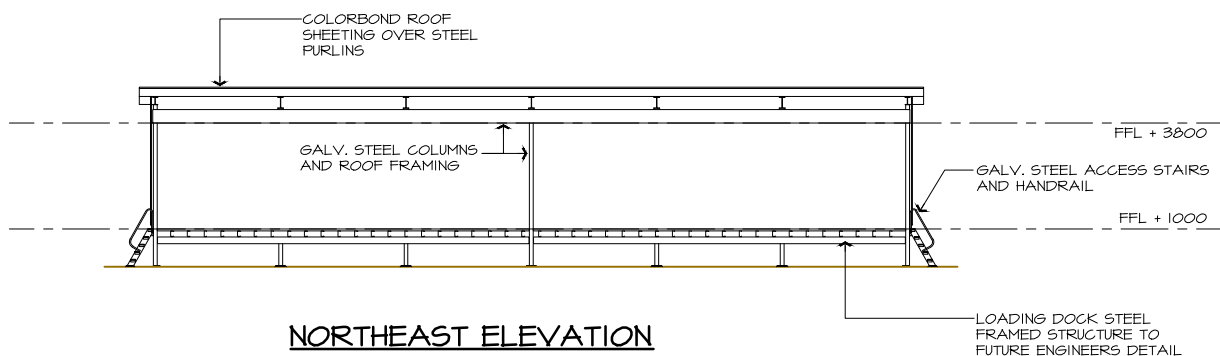


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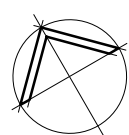
Project
ELGAS STORAGE FACILITY
Part Lot 1 DP 1145444 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
OFFICE BUILDING SECTIONS

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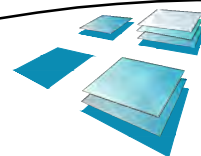
Approved		Designed
Date		Drawn
13th MARCH 2015		SP
Scale		Checked
1 : 100 @ A1 1 : 200 @ A3		
Project No.	Drawing No.	Amdt.
14 - 002	GA - 21	DAI



No.	Amendment	By	Date
P1	PRELIMINARY ISSUE, NOT FOR CONSTRUCTION.	5P	12.03.2017
P2	REVISED PRELIMINARY ISSUE, NOT FOR CONSTRUCTION.	VP	17.04.2017
P3	FINAL DRAFT DA SET FOR APPROVAL ONLY, NOT FOR CONSTRUCTION.	VP	08.05.2017
P4	AMENDED TO SUIT ELGAS REQUIREMENTS, REVISED DRAFT DA SET FOR APPROVAL, NOT FOR CONSTRUCTION.	A5T	05.04.2017
P4	CLIENT NAME CHANGED, FINISHES REVISED, RONT OF ROLLERDOOR REVISED, DRAFT DA SET FOR APPROVAL, NOT FOR CONSTRUCTION.	A5T	11.04.2017
DA1	ISSUED FOR DEVELOPMENT APPROVAL, NOT FOR CONSTRUCTION	A5T	06.06.2017
DA2	LPG RECOVERY SYSTEM ADDED, ISSUED FOR DEVELOPMENT APPROVAL, NOT FOR CONSTRUCTION	A5T	28.06.2017



Chartered Member :
BUILDING DESIGNERS AUSTRALIA
Accredited Building Designer : 6318
Victoria : RBP DP-AD 15529
Queensland : QBCC 1082914
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Multi-Discipline Design & Project Management

Project
ELGAS STORAGE FACILITY
Part Lot 1 DP 1195444 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
CYLINDER FILLING DOCK PLAN, SECTION & ELEVATIONS

ISSUED FOR DEVELOPMENT APPROVAL NOT FOR CONSTRUCTION	
Approved	Designed RJS
Date 2nd MARCH 2015	Drawn SF
Scale 1 : 100 @ A1 1 : 200 @ A3	Checked
Project No. 14 - 002	Drawing No. GA - 30 DA2

NOTE:

UNLOADING OF MATERIALS BY CRANE MUST BE COMPLETED WHOLLY WITHIN SITE BOUNDARY - REFER TO CLAUSE E.1 - DWG No. CMP-02

CONTRACTOR IS TO SEEK PERMISSION FROM ADJOINING SITE OWNERS TO ENTER/WORK NEIGHBORING SITE PRIOR TO ANY WORKS CARRIED OUT. PROVIDE TEMPORARY FENCING ON NEIGHBORING SITE TO SUIT WORKS.

LOT 12
D.P. 1032146
BORAL CEMENT

EXTENT OF PERIMETER
SECURITY FENCE & GATES
EXTENT OF PERIMETER
SILTATION FENCE

STOCK PILED EXCAVATION MATERIAL IF REQUIRED.
RELOCATE AS NECESSARY TO SUIT CONSTRUCTION
SEQUENCE

BOUNDARY - 106.690 - 119°26'15"

LEASE LINE - 106.690 - 119°26'15"

LPG TANK

OFFICE
BUILDING

CYLINDER
FILLING
DOCK

LEASE LINE - 105.428 - 190°41'05"

PROVIDE 6m WIDE SITE ACCESS GATES CENTRED ON
EXISTING VERGE CROSSING. RELOCATE AS
NECESSARY TO SUIT CONSTRUCTION SEQUENCE

FIRST AID, EMERGENCY PLAN & EVACUATION
ASSEMBLY POINT REFER TO CLAUSE B.1 - DWG No.
CMP-02

PROVIDE SITE SIGNAGE TO COUNCIL REQUIREMENTS
ADJACENT TO MAIN ENTRY GATES - INCLUDE SITE
ACCESS REQUIREMENTS AND VISITOR INSTRUCTIONS
REFER TO CLAUSE B.2 - DWG No. CMP-02

NOMINAL POSITION FOR TEMPORARY LUNCH SHEDS -
PROVIDE TEMPORARY WATER, SEWER AND
ELECTRICAL CONNECTIONS

NOMINAL POSITION FOR TEMPORARY AMENITIES
SHEDS - PROVIDE TEMPORARY WATER, SEWER AND
ELECTRICAL CONNECTIONS COMPLY WITH COUNCIL
REQUIREMENTS. RELOCATE AS NECESSARY TO SUIT
CONSTRUCTION SEQUENCE

PROVIDE TEMPORARY WATER SUPPLY ADJACENT
CONSTRUCTION EXIT FOR WASH DOWN PURPOSES

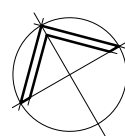
NOTE EXISTING ABOVE GROUND POWERLINES -
ENSURE ADEQUATE CLEARANCE AT ALL TIMES
DURING CONSTRUCTION
REFER TO CLAUSE E.3 - DWG B152

SCALE BAR 1 : 1 On A1 Size Original

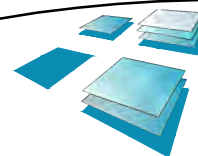
SCALE BAR 1 : 2 On A3 Size Reduction

No. Amendment
P1 FINAL DRAFT DA SET FOR APPROVAL ONLY. NOT FOR CONSTRUCTION.
P2 AMENDED TO SUIT ELGAS REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL.
DAI ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION

By Date
VP 08.05.2015
AST 05.04.2017
AST 06.06.2017



Chartered Member:
BUILDING DESIGNERS AUSTRALIA
Accredited Building Designers:
Queensland: QBCC 082914
Tasmania: ABP CC6710
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Multi-Discipline Design + Project Management

Project
ELGAS STORAGE FACILITY
Part Lot 1 DP 1195444 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
CONSTRUCTION MANAGEMENT PLAN

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION

Approved	Designed
Date	13th MARCH 2015
Scale	1 : 250 @ A1 1 : 500 @ A3
Project No.	14 - 002
Drawing No.	CMP - 01
Amdt.	DAI

SAFETY & SITE MANAGEMENT NOTES

A. PRINCIPAL CONTRACTOR

1. REFER TO CONTRACT DOCUMENTS (STD-405) FOR PRINCIPAL CONTRACTOR REQUIREMENTS AND RESPONSIBILITIES

B. SITE ESTABLISHMENT - REFER DWG CMP - 02

1. PRINCIPAL CONTRACTOR TO PREPARE TRAFFIC MANAGEMENT PLAN, EMERGENCY PLANS, SITE INDUCTION MATERIAL
2. IDENTIFIED RISKS:
- DBYD INFO (EXPOSE EXISTING SERVICES)
 - SITE SIGNAGE (VISITOR ACCESS REQUIREMENTS, SITE INDUCTIONS ETC.)
 - EMERGENCY MANAGEMENT PLAN / FIRST AID / EGRESS
 - TRAFFIC MANAGEMENT
- CODES OF PRACTICE:
- CONSTRUCTION WORK - C.O.P (SHA)
 - FIRST AID IN THE WORKPLACE - C.O.P (SHA)
 - TRAFFIC MANAGEMENT IN WORKPLACES DRAFT C.O.P (SHA).

C. DEMOLITION - REFER DWG DP - 01

1. DEMOLITION TO BE CARRIED OUT BY A LICENSED DEMOLITION CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SCOPE OF WORKS AND CODES OF PRACTICE NOMINATED BELOW.
2. DEMOLITION CONTRACTOR TO PREPARE DETAILED DEMOLITION PLAN, TRAFFIC MANAGEMENT PLAN, WASTE MANAGEMENT PLAN, WHS PLAN, AND SHMS FOR ALL DEMOLITION WORK.
3. ALL EXISTING BUILDINGS TO BE ASSESSED FOR ASBESTOS AND HAVE ASBESTOS REMOVED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH RELEVANT CODES OF PRACTICE.
4. EXISTING STRUCTURES TO BE ASSESSED BY A STRUCTURAL ENGINEER TO DETERMINE THE SAFEST METHOD FOR DEMOLITION.
6. REFER TO SAFE DESIGN REPORT FOR FUTURE DEMOLITION PROCEDURE OF PROPOSED STRUCTURES.
- CODES OF PRACTICE:
- DEMOLITION WORK - C.O.P (SHA)
 - CONFINED SPACES - C.O.P (SHA)
 - HOW TO SAFELY REMOVE ASBESTOS - C.O.P (SHA)
 - HOW TO MANAGE AND CONTROL ASBESTOS IN THE WORKPLACE - C.O.P (SHA)
 - DRAFT CRANES - C.O.P (SHA)

D. EXCAVATION

1. EXCAVATION CONTRACTOR REQUIREMENTS: GEOTECH REPORT, EXCAVATION SAFETY PLAN, DEMOLITION PLAN, WASTE MANAGEMENT, TRAFFIC MANAGEMENT, EMERGENCY PLANS
2. PREPARE A SHMS FOR ALL EXCAVATION (INCLUDING BORED PIERS).
3. PROVIDE TEMPORARY BARRIERS AROUND ALL OPEN EXCAVATION AND CHANGES IN LEVEL GREATER THAN 600mm.
- CODES OF PRACTICE:
- EXCAVATION WORK - C.O.P (SHA)
 - CONSTRUCTION WORK - C.O.P (SHA)
 - CONFINED SPACES - C.O.P (SHA)
 - MANAGING THE RISK OF FALLS AT WORKPLACES - C.O.P (SHA)

E. CONSTRUCTION

1. PRINCIPAL CONTRACTOR TO PREPARE SHMS & WHS MANAGEMENT PLANS. REFER TO TEMPLATES IN THE CONSTRUCTION WORK CODE OF PRACTICE.
2. DIAL BEFORE YOU DIG REPORTS TO BE COORDINATED AND ALL EXISTING SERVICES IDENTIFIED PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO PREPARE SHMS FOR ALL WORK CARRIED OUT UNDER POWER LINES INCLUDING CONCRETE VERGE CROSSINGS, VEHICULAR DELIVERIES, MATERIALS HANDLING WITH CRANES. DETERMINE HEIGHT OF EXISTING POWER LINES AND ESTABLISH NO-GO ZONES IN ACCORDANCE WITH CODES OF PRACTICE. INSTALL WARNING SIGNAGE AND HIGH VISIBILITY BUNTING TO DELINEATE NO-GO ZONE.
- CODES OF PRACTICE:
- CONSTRUCTION WORK - C.O.P (SHA)
 - DRAFT CRANES - C.O.P (SHA)
 - HCO1344 WORK NEAR OVERHEAD POWERLINES - C.O.P (WORKCOVER NSW)
 - MANAGING ELECTRICAL RISKS IN THE WORKPLACE - C.O.P (SHA)
 - DRAFT - WORKING IN THE VICINITY OF OVERHEAD AND UNDERGROUND ELECTRIC LINES - C.O.P (SHA)

F. CONFINED SPACES

1. ACCESS TO CONFINED SPACES TO BE RESTRICTED AND MANAGED IN ACCORDANCE WITH THE PRINCIPAL CONTRACTORS' WHS REPORT AND RELEVANT CODES OF PRACTICE.
2. IDENTIFIED RISKS:
- TANKS INSTALLATION
 - EXCAVATIONS
 - ROOF VOIDS
- CODES OF PRACTICE:
- CONFINED SPACES - C.O.P (SHA)

G. SLIPS, TRIPS & FALLS

1. PRINCIPAL CONTRACTOR TO IDENTIFY RISKS OF SLIPS, TRIPS & FALLS AND INCLUDE METHODS TO ELIMINATE OR REDUCE RISK IN THE WHS MANAGEMENT PLAN.
2. MAINTAIN CONSTRUCTION SITE FREE OF LOOSE DEBRIS.
3. IDENTIFIED RISKS
- FLOOR FINISHES (SLIP RESISTANCE)
 - STAIRS & RAMPS (SLIP RESISTANCE, HIGHLIGHTING STRIPS, TACTILES ETC.)
 - PEDESTRIAN PATHS OF TRAVEL CLEARLY MARKED
 - ROOF ACCESS PROVISIONS & FALL ARREST SYSTEMS
 - OPEN EXCAVATIONS (PROVIDE WARNING TAPE / TEMPORARY BARRIERS)
 - WORKING AT HEIGHTS (DEMOLITION, BUILDING ROOFS, SAFETY WIRE MESH ETC.)
- CODES OF PRACTICE
- MANAGING THE RISK OF FALLS AT WORKPLACES - C.O.P (SHA)
 - PREVENTING FALLS IN HOUSING CONSTRUCTION - C.O.P (SHA)

H. FALLING OBJECTS

1. PRINCIPAL CONTRACTOR TO IDENTIFY RISKS OF FALLING OBJECTS AND INCLUDE METHODS TO ELIMINATE OR REDUCE RISK IN THE WHS MANAGEMENT PLAN.
2. MOVEMENT OF MATERIAL WITH CRANES TO BE PERFORMED WHOLLY WITHIN THE SITE IN ACCORDANCE WITH SHMS.
3. IDENTIFIED RISKS:
- WORKING AT HEIGHTS (LOOSE MATERIAL OR SMALL OBJECTS)
 - DEMOLITION OF BUILDING COMPONENTS
 - WORKING IN EXCAVATED TRENCHES (BATTERS, GEOTEXTILE, FENCING ETC.)
 - TEMPORARY BRACING FOR UNFINISHED STRUCTURES
 - LIFTING BY CRANES / FORKLIFTS
- CODES OF PRACTICE:
- CONSTRUCTION WORK - C.O.P (SHA)
 - DEMOLITION WORK - C.O.P (SHA)
 - EXCAVATION WORK - C.O.P (SHA)
 - DRAFT CRANES - C.O.P (SHA)

J. OPERATIONAL USE OF BUILDING

1. THE COMPLETED SITE IS TO BE OPERATED IN ACCORDANCE WITH FUEL INDUSTRY SAFETY PROCEDURES.
- CODES OF PRACTICE
- FIRST AID IN THE WORKPLACE - C.O.P (SHA)
 - MANAGING THE RISK OF FALLS AT WORKPLACES - C.O.P (SHA)

K. HAZARDOUS SUBSTANCES

1. PRINCIPAL CONTRACTOR TO IDENTIFY HAZARDOUS SUBSTANCES AT ALL STAGES OF CONSTRUCTION AND HANDLE IN ACCORDANCE WITH RELEVANT SPECIFICATIONS.
2. EXISTING BUILDINGS ON THIS SITE MAY CONTAIN ASBESTOS. REFER DEMOLITION NOTES FOR FURTHER DETAIL.
3. IDENTIFIED RISKS:
- ASBESTOS
 - ABOVEGROUND LPG TANK
 - UNDERGROUND FUEL TANKS
- CODES OF PRACTICE:
- HOW TO SAFELY REMOVE ASBESTOS - C.O.P (SHA)
 - HOW TO MANAGE AND CONTROL ASBESTOS IN THE WORKPLACE - C.O.P (SHA)
 - MANAGING RISKS OF HAZARDOUS CHEMICALS IN THE WORKPLACE - C.O.P (SHA)
 - HCO4096 SAFE HANDLING OF TIMBER PRESERVATIVES AND TREATED TIMBER - C.O.P (WORKCOVER NSW)

L. STATE WORK HEALTH & SAFETY AUTHORITY

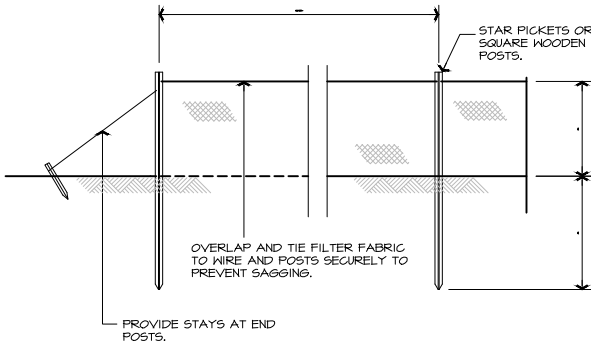
NSW:
WorkCover NSW
Website: www.workcover.nsw.gov.au
Telephone: 13 10 50

W. WORK PLACE CLEARANCE GROUP (WPCG)

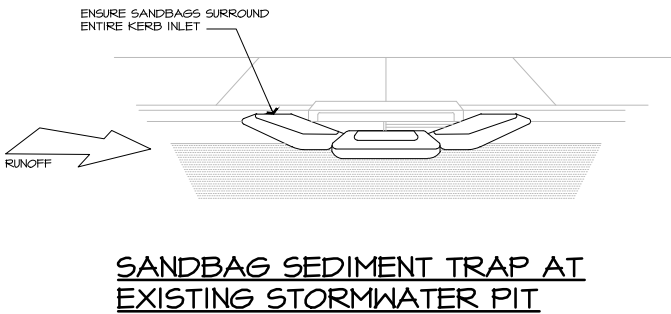
1. PRINCIPAL CONTRACTOR TO BE TRAINED AND CURRENTLY ACCREDITED BY WPCG TO WORK ON FUEL SITES.
3. PRINCIPAL CONTRACTOR SHALL ABIDE BY ALL THE REGULATIONS OF WPCG THROUGHOUT THE COURSE OF CONSTRUCTION.
2. PRINCIPLE CONTRACTOR SHALL OBTAIN ALL HOT WORKS PERMITS PRIOR TO ANY DEMOLITION AND CONSTRUCTION WORKS ON SITE.

ABBREVIATIONS LEGEND

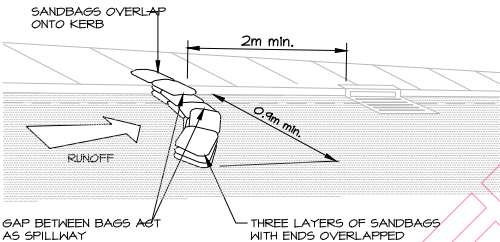
C.O.P - CODE OF PRACTICE
DBYD - DIAL BEFORE YOU DIG (www.100.com.au)
SHA - SAFE WORK AUSTRALIA (www.safeworkaustralia.com.au)
SHMS - SAFE WORK METHOD STATEMENT
WHS - WORKPLACE HEALTH & SAFETY



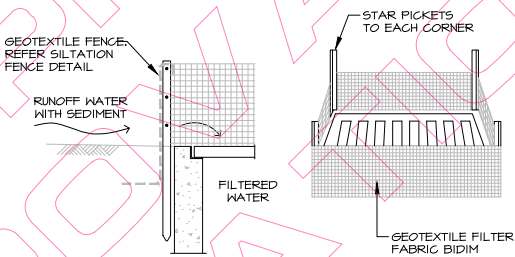
TYPICAL SILT FENCE ELEVATION



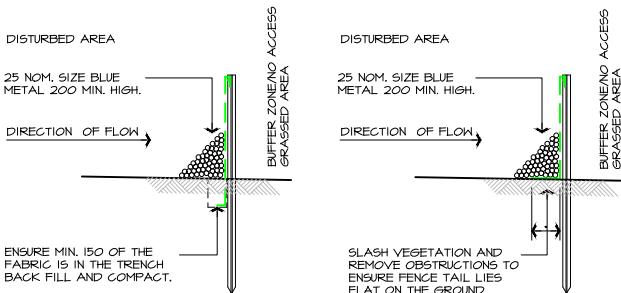
SANDBAG SEDIMENT TRAP AT EXISTING STORMWATER PIT



SANDBAG SEDIMENT TRAP (SST) N.T.S.



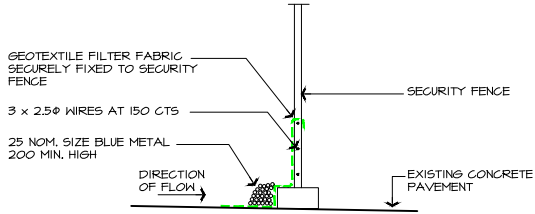
GEOTEXTILE FILTER PIT (GFP) N.T.S.



OPTION 1

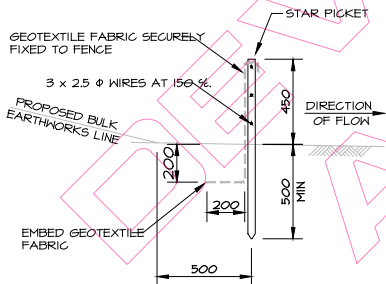
OPTION 2

TYPICAL SILT FENCE SECTIONS



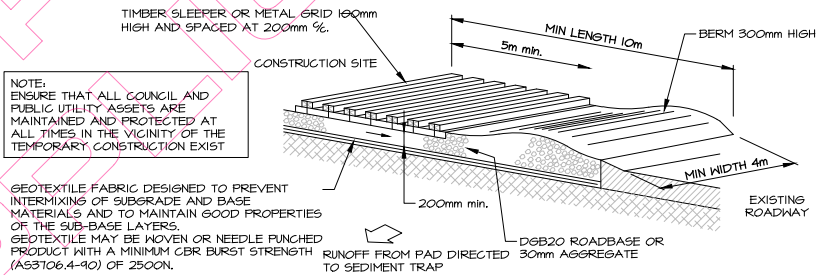
SILT/SECURITY FENCE DETAIL

NOTE: END OF SILT/SECURITY FENCE TO RETURN UP SLOPE TO PREVENT RUNOFF



NOTE: ENDS OF SILTATION FENCE TO BE RETURNED UP SLOPE TO PREVENT RUNOFF

SILTATION FENCE (SF) N.T.S.



CONSTRUCTION NOTES

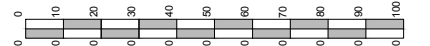
1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200MM THICK PAD OVER GEOTEXTILE USING ROADBASE OR 30MM AGGREGATE.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP WHERE THE SEDIMENT IS COLLECTED AND REMOVED.

MAINTENANCE NOTES

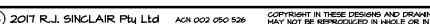
THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT OFF THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED OFF THE CONSTRUCTION SITE MUST BE REMOVED IMMEDIATELY.

TEMPORARY STABILISED CONSTRUCTION EXIT. N.T.S.

SCALE BAR 1 : 1 On A1 Size Original

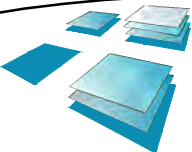


SCALE BAR 1 : 2 On A3 Size Reduction



No.	Amendment	By	Date
P1	FINAL DRAFT DA SET FOR APPROVAL ONLY. NOT FOR CONSTRUCTION.	VP	08.05.2015
P2	AMENDED TO SUIT ELGAS REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL.	AST	05.04.2017
DAI	ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION	AST	06.06.2017

Chartered Member:
BUILDING DESIGNERS AUSTRALIA
Accredited RBP DP AD 15318
Queensland: QBCC 182914
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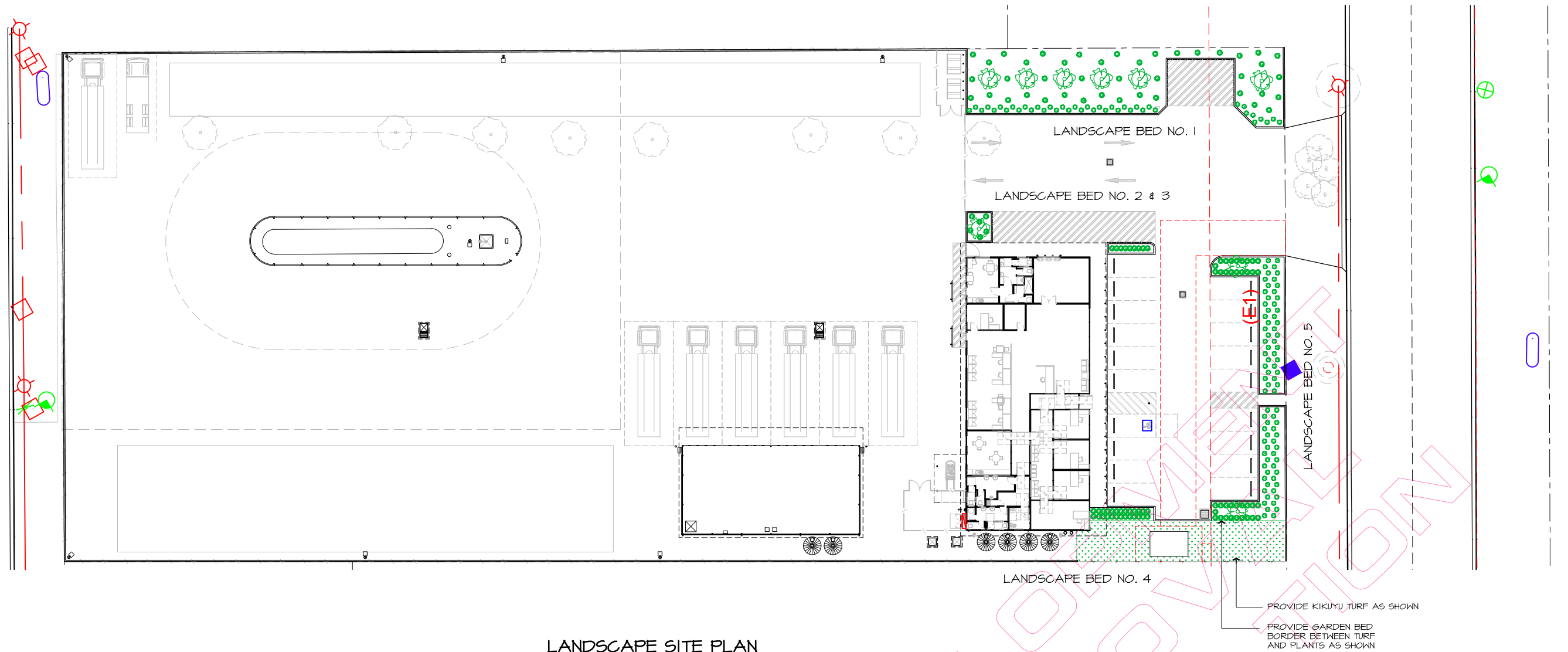


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Project
ELGAS STORAGE FACILITY
Part Lot 1 DP 1195444 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
CONSTRUCTION MANAGEMENT NOTES AND DETAILS

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION

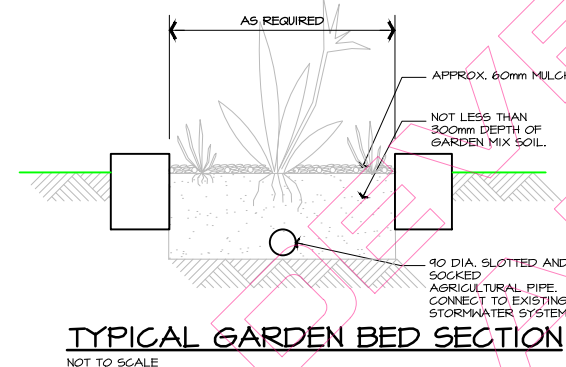
Approved	Designed
Date 13th MARCH 2015	Drawn RJS
Scale N.T.S.	Checked RJS
Project No. 14 - 002	Drawing No. CMP - 02
	Amtd. DAI



LANDSCAPE SITE PLAN

SCHEDULE OF PLANT SPECIES

ICON	PLANT NAME	COMMON NAME	MATURE SIZE		POT SIZE	No. OFF
			HEIGHT Mts	WIDTH Mts		
	RAPHIOLEPIS	SNOW MAIDEN	0.75	0.50	200 mm	120
	DURANTA	MINI GOLD	0.6	0.6	175 mm	120
	MAGNOLIA	LITTLE GEM	3 - 4.0	1.5 - 2.5	400 mm	9



TYPICAL GARDEN BED SECTION
NOT TO SCALE

LANDSCAPING GENERAL NOTES

VEGETATION CONTROL
ALL ON SITE VEGETATION OTHER THAN THAT FOR RETENTION IS TO BE REMOVED FROM SITE EITHER BY EXCAVATING THE UPPER 200mm OR BY USE OF HERBICIDE WITH NON-RESIDUAL EFFECT.

EXCAVATION
EXCAVATE ALL MASS (TREE/SHRUB/GROUND COVER) PLANTING AREAS TO A DEPTH OF 300mm BELOW ADJACENT FINISHED LEVELS.

CULTIVATION
ALL EXCAVATED PLANTING AREAS ARE THEN TO BE CULTIVATED BY HARROWING OR RIPPING, ENSURING NO DAMAGE OCCURS TO TREES OR SHRUBS.

PLANTING MIX
SUPPLY AND INSTALL TO ALL MASS PLANTING AREAS, IN MAXIMUM 150mm CONSOLIDATED LAYERS, A PLANTING MIX COMPRISING OF 3 PARTS TOPSOIL, AND 1 PART DECOMPOSED COIN MANURE OF NATURAL PH VALUE. THOROUGHLY INCORPORATE WITH PREPARED SUBGRADE AND FINISH 50mm BELOW ADJACENT LEVEL.

PLANTING
ALL PLANT MATERIAL I.E. SHRUBS AND GROUND COVERS, IS TO BE WELL GROWN OF TYPICAL FORM, NOT SORT OR FORCED, BE HARDENED OFF AND HAVE HEALTHY WELL DEVELOPED ROOT SYSTEMS. NO INDIVIDUAL PLANT IS TO BE ROOT BOUND AND EACH MUST BE FREE FROM DISEASE AND INSECT PESTS.

TO PLANT, EXCAVATE A HOLE TWICE THE DIAMETER OF THE ROOT BALL. PRESS FERTILIZER PELLETS EQUIVALENT TO KOKEL RELEASE AROUND BASE OF EACH HOLE AT THE RATE SPECIFIED.

MULCHING
ALL PLANTING AREAS ARE TO BE MULCHED WITH A MINIMUM 50mm DEEP LAYER OF PINE BARK.

MAINTENANCE
THE FOLLOWING MATTERS ARE TO BE ATTENDED TO FOR A PERIOD OF 13 WEEKS:
- WATERING
- WEEDING
- FERTILIZING
- REPLACEMENT OF ANY FAILED PLANTS
- RECTIFICATION OF ANY SOIL SUBSIDENCE

SPECIFICATION
REFER TO SPECIFICATION FOR LANDSCAPE DETAILS AND AUTOMATIC IRRIGATION SYSTEM REQUIREMENTS.

NOTES :

- REFER TO DRAWING No. L - 02 FOR LANDSCAPE BEDDING PLANS.

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION



RAPHIOLEPIS
SNOW MAIDEN
APPROX. 4 PLANTS PER SQ/M



DURANTA
MINI GOLD
PLANTED AT 500mm CTS



MAGNOLIA
LITTLE GEM

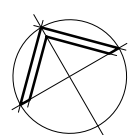
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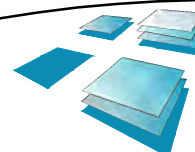
SCALE BAR 1 : 2 On A3 Size Reduction

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No.	Amendment	By	Date
P1	PRELIMINARY ISSUE. NOT FOR CONSTRUCTION.	VP	29.04.2015
P2	FINAL DRAFT DA SET FOR APPROVAL ONLY. NOT FOR CONSTRUCTION.	VP	08.05.2015
P3	AMENDED TO SUIT ELGAS REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL. NOT FOR CONSTRUCTION.	AST	05.04.2017
P4	PLANTS REVISED. REVISED DRAFT DA SET. NOT FOR CONSTRUCTION.	AST	11.04.2017
P5	AMENDED TO SUIT CLIENT REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL.	VP	04.05.2017
DA1	ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION	AST	06.06.2017



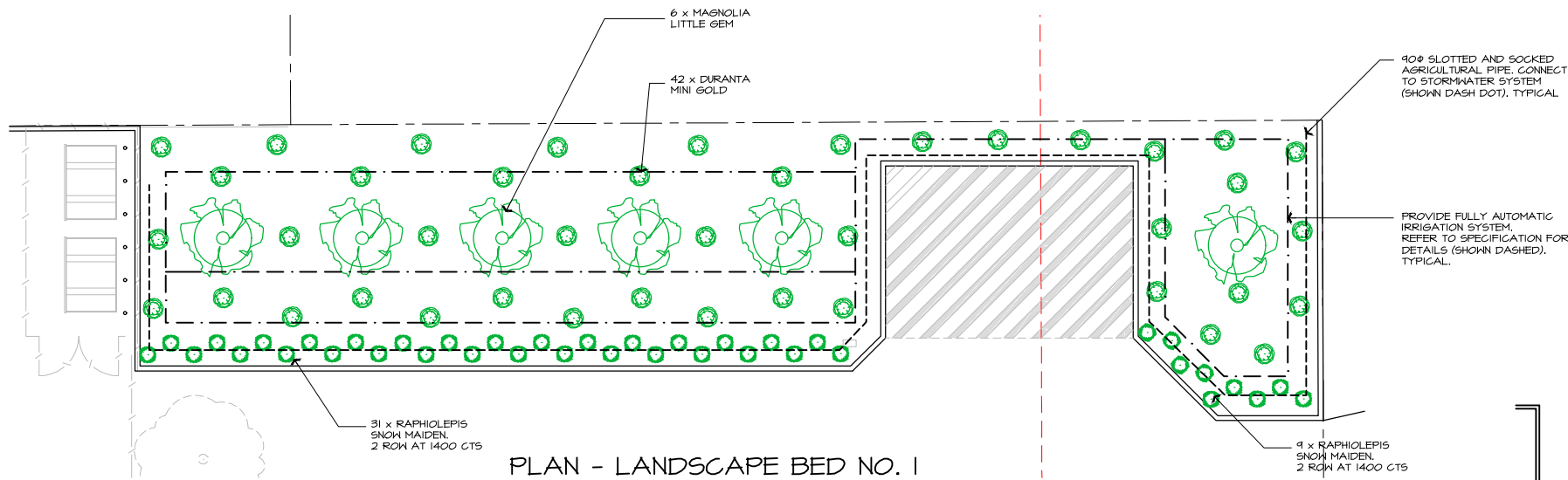
Chartered Member:
BUILDING DESIGNERS AUSTRALIA
100 Collins Street
Melbourne VIC 3000
Victoria : RBP DP-AD 15329
Queensland : QBCC 1082914
Tasmania : APB 00000000
New Zealand : RBP 13182



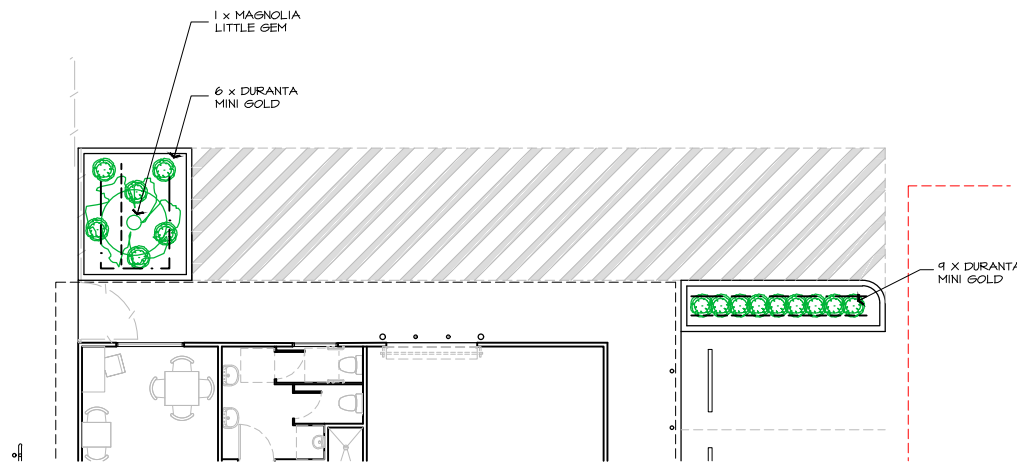
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Building Design
Office: Suite B111 - Sky City
NorWest Business Park
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Phone: 02 8883 0999
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Web: www.rjsinclair.com.au
Multi-Discipline Design • Project Management

Project
ELGAS STORAGE FACILITY
Part Lot 1 DP 1145444 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
LANDSCAPE SITE PLAN

Approved	Designed
Date APRIL 2014	Drawn AST
Scale 1 : 250 @ A1 1 : 500 @ A3	Checked
Project No. 14 - 002	Drawing No. L - 01 Amdt. DA1

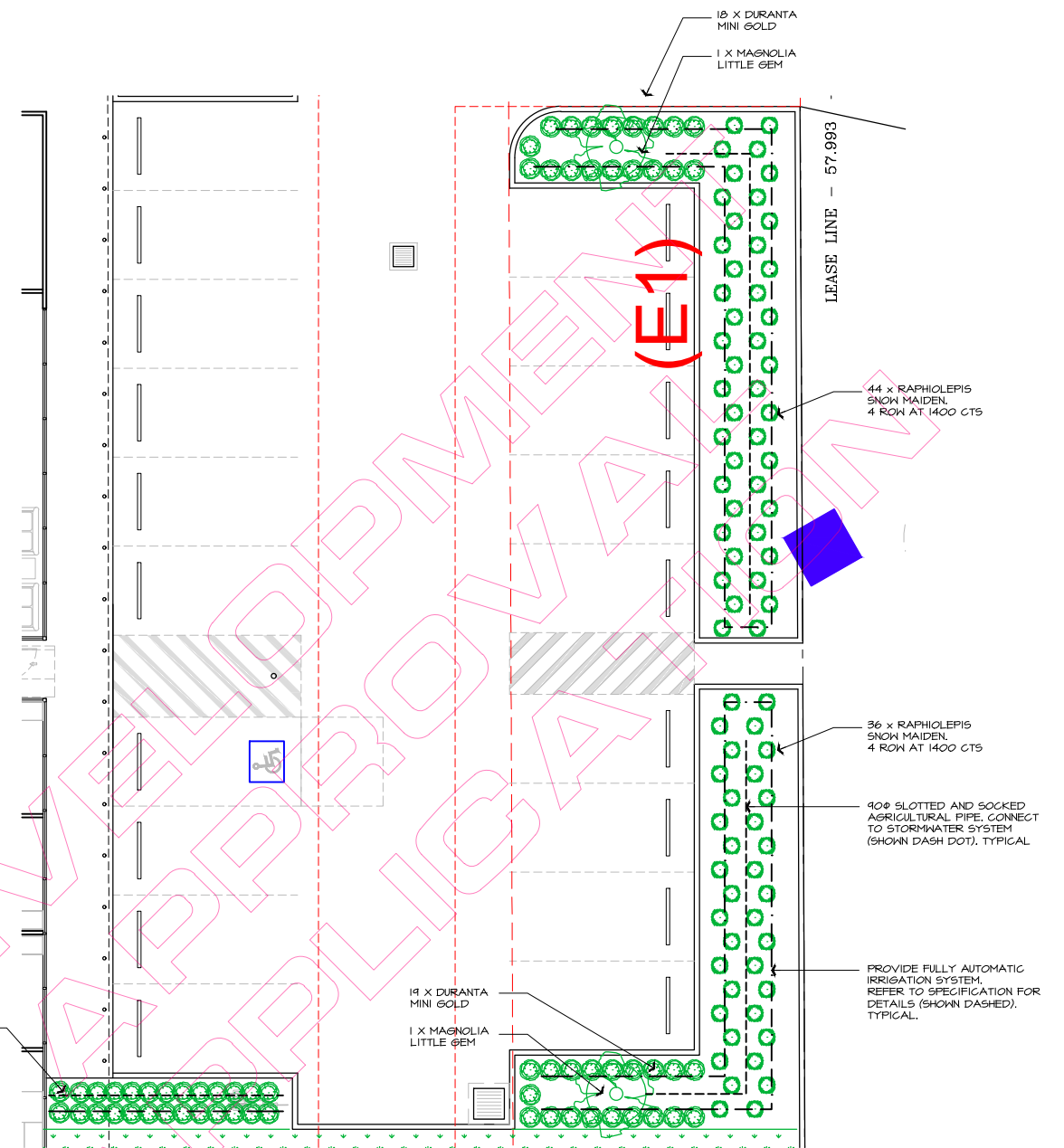


PLAN - LANDSCAPE BED NO. 1



PLAN - LANDSCAPE BED NO. 2

PLAN - LANDSCAPE BED NO. 3



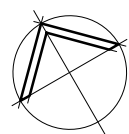
PLAN - LANDSCAPE BED NO. 4

PLAN - LANDSCAPE BED NO. 5

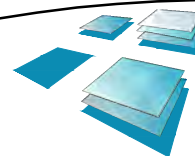
SCALE BAR 1 : 1 On A1 Size Original
0 10 20 30 40 50 60 70 80 90 100
SCALE BAR 1 : 2 On A3 Size Reduction
0 10 20 30 40 50 60 70 80 90 100

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No.	Amendment	By	Date
P1	PRELIMINARY ISSUE, NOT FOR CONSTRUCTION.	VP	29.04.2015
P2	FINAL DRAFT DA SET FOR APPROVAL ONLY, NOT FOR CONSTRUCTION.	VP	08.05.2015
P3	AMENDED TO SUIT ELGAS REQUIREMENTS, REVISED DRAFT DA SET FOR APPROVAL, NOT FOR CONSTRUCTION.	AST	05.04.2017
P4	PLANTS REVISED, REVISED DRAFT DA SET, NOT FOR CONSTRUCTION.	AST	11.04.2017
P5	AMENDED TO SUIT CLIENT REQUIREMENTS, REVISED DRAFT DA SET FOR APPROVAL.	VP	04.05.2017
DAI	ISSUED FOR DEVELOPMENT APPROVAL, NOT FOR CONSTRUCTION	AST	06.06.2017



Chartered Member:
BUILDING DESIGNERS AUSTRALIA
100 Years of Excellence
1916-2016
Victoria: RBP DP-AD 15329
Queensland: QBCC 1082914
Tasmania: APB 0000011
New Zealand: DP 13182

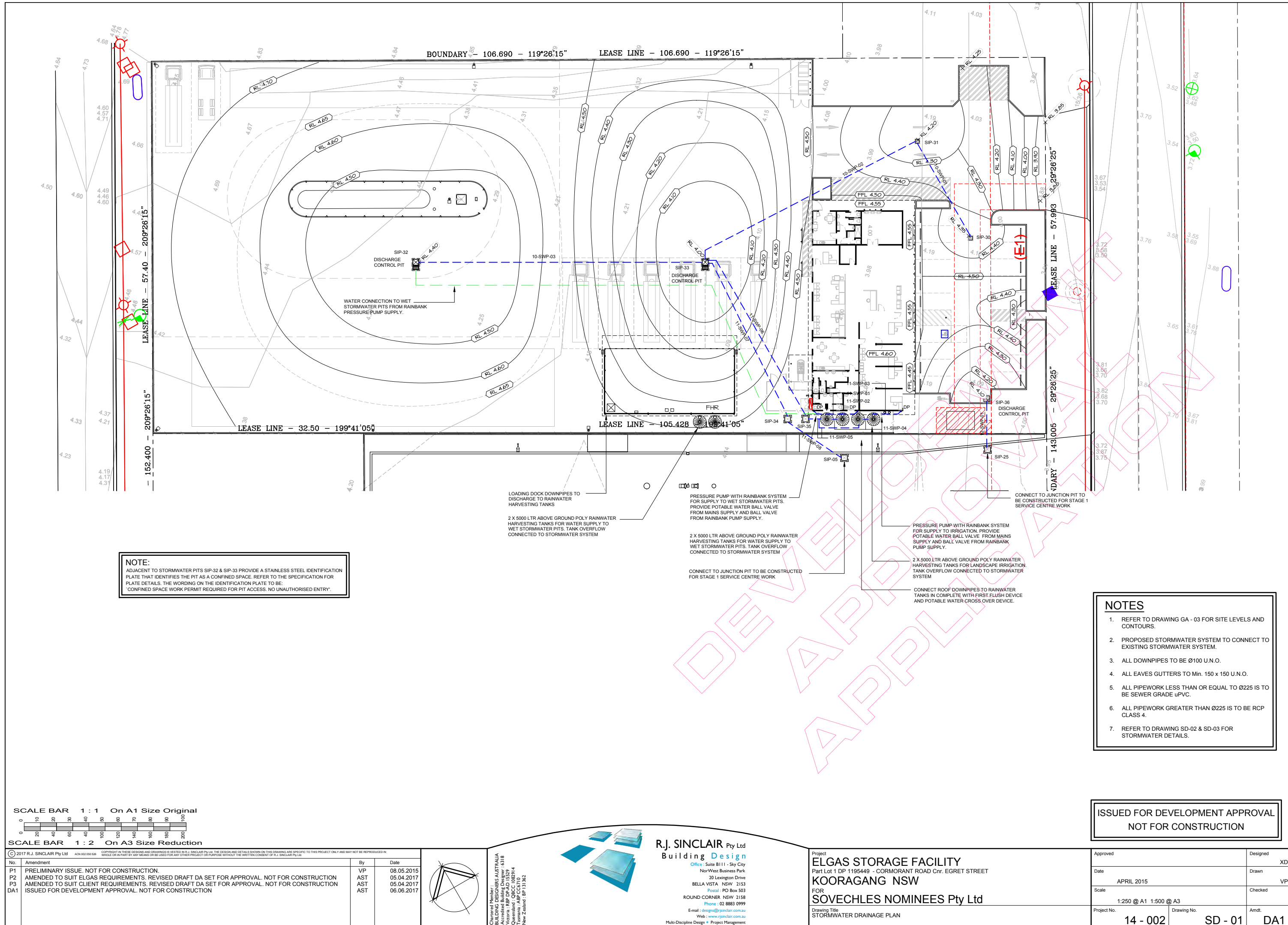


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Project
ELGAS STORAGE FACILITY
Part Lot 1 DP 1145444 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
LANDSCAPE BEDDING PLANS

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION

Approved	Designed
Date APRIL 2014	Drawn VP
Scale 1 : 100 @ A1 1 : 200 @ A3	Checked
Project No. 14 - 002	Drawing No. L - 02
	Amdt. DAI

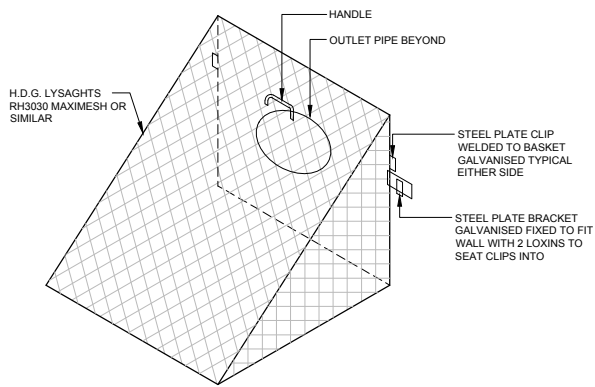


DRAINAGE CALCULATIONS

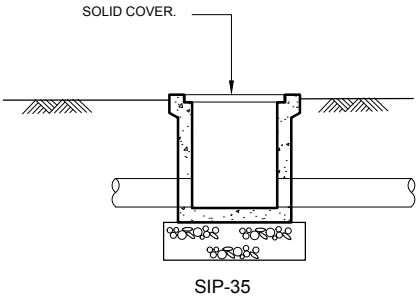
PIPED DRAINAGE SYSTEM BASED ON FOLLOWING ASSUMPTIONS :																							
ARI =		5	Years	100	Years			RUNOFF COEFFICIENTS :															
DURATION =		5	Mins.	5	Mins.			ROOF AREAS :		1.00													
INTENSITY =		140	mm/hr		mm/hr			PAVEMENTS :		0.90													
MIN. PIPE GRADIENT :		0.500	%					GARDEN AREAS :		0.75													
PIPE No.	DESCRIPTION	FROM	TO	C	INTENSITY mm/hr	AREA m2	DISCHARGE Q=CIA/360 l/sec	CUM. DISCHARGE l/sec	Min. PIPE Dia.	Min. PIPE FALL	ADOPT PIPE Dia.	PIPE CAPACITY l/sec	PIPE RUN m	INLET INVERT LEVEL	OUTLET INVERT LEVEL								
PIPE RUN No. 10																							
10-SWP-01		Collector	SIP-30	SIP-31	0.90	140	225	7.9	7.9	225	0.50%	225	43	16	3.71		3.62						
10-SWP-02		Collector	SIP-31	SIP-33	0.90	140	377	13.2															
			10-SWP-01					7.9	21.1	300	0.50%	300	88	37	3.62		3.44						
10-SWP-03		Collector	SIP-32	SIP-33	0.90	140	3750	131.3	131.3	300	0.50%	300	88	44	3.73		3.44						
PIPE RUN No. 11																							
11-SWP-01		Roof	DP	11-SWP-03	1.00	140	181	7.0	7.0	100	1.00%	100	7	7	above ground		above ground						
11-SWP-02		Roof	DP	11-SWP-03	1.00	140	180	7.0															
			11-SWP-01					7.0	14.0	150	1.00%	150	22	1	above ground		above ground						
11-SWP-03		Roof	DP	TANK	1.00	140	180	7.0															
			11-SWP-02					14.0	21.0	150	1.00%	150	22	5	above ground		top of tank						
11-SWP-04		Overflow	TANK	TANK																			
11-SWP-05		Overflow	TANK	SIP-35				21.0	21.0	150	1.00%	150	22	5	top of tank		4.00						
11-SWP-06		Collector	SIP-35	SIP-33				21.0	21.0	225	0.50%	225	43	28	4.00		3.44						
11-SWP-07		Collector	SIP-33	SIP-34	0.90	140	2138	74.8															
			10-SWP-02					21.1															
			10-SWP-03					131.3															
			11-SWP-06					21.0	248.2	375	0.50%	375	165	27	3.44		3.31						
11-SWP-08		Collector	SIP-34	SIP-05				0.0															
			11-SWP-08					248.2	248.2	375	0.50%	375	165	10	3.31		3.26						
PIPE RUN No. 12																							
12-SWP-01		Collector	SIP-36	SIP-25	0.90	140	268	9.4	9.4	150	0.50%	150	14	7	3.50		3.47						

PIT SCHEDULE

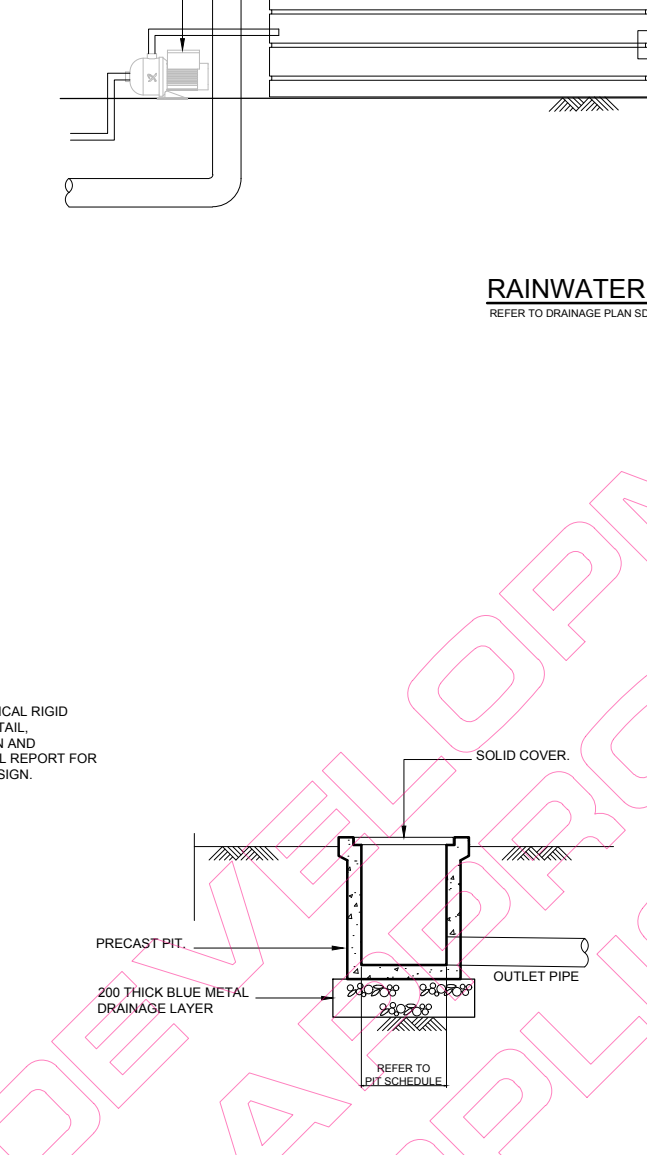
PIT No.	TYPE	SIZE	COVER/GRATING	CLASS
SIP-30	SURFACE INLET	600 x 600	GALV. STEEL	E
SIP-31	SURFACE INLET	600 x 600	GALV. STEEL	E
SIP-32	WET PIT	REFER SD-03	GALV. STEEL	E
SIP-33	WET PIT	REFER SD-03	GALV. STEEL	E
SIP-34	JUNCTION PIT	900 x 900	CONCRETE	A
SIP-35	JUNCTION PIT	900 x 900	CONCRETE	A
SIP-36	SURFACE INLET	900 x 900	GALV. STEEL	C



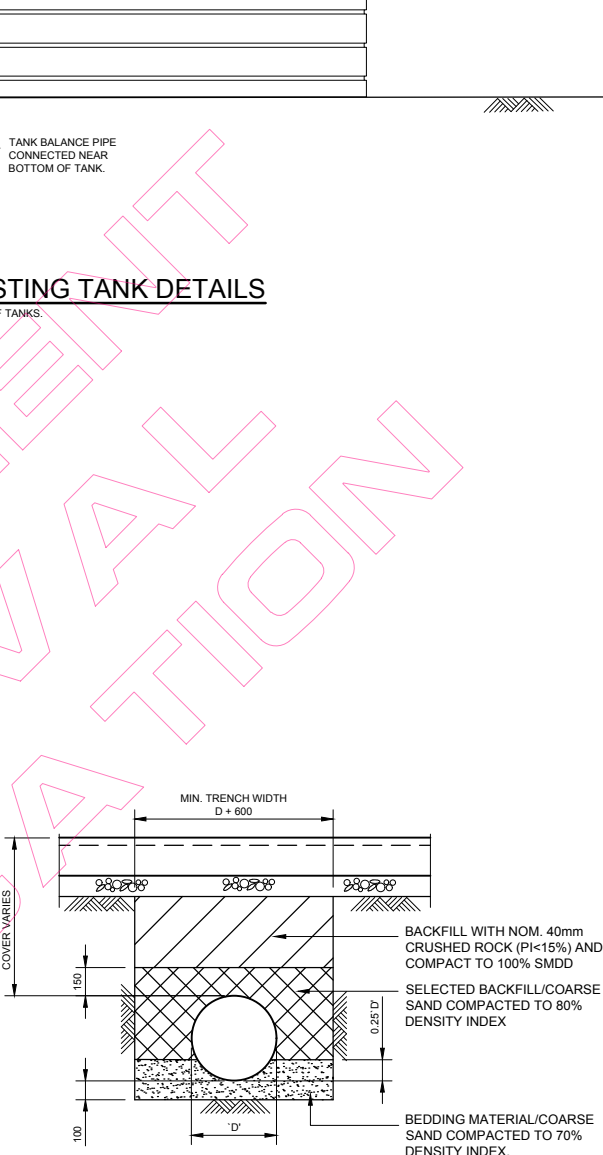
TYPICAL SCREEN DETAIL INSIDE
DISCHARGE CONTROL PITS -
SIP-32, SIP-33 & SIP-36
NTS



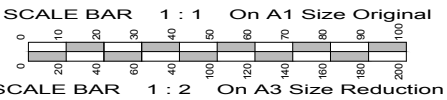
PRECAST STORMWATER DRAINAGE PIT DETAILS
SIP-30, SIP-31 AND SIP-36



PRECAST JUNCTION PIT DETAILS
SIP-34 AND SIP-35



TYPICAL PIPE TRENCH DETAIL



No.		Amendment	By	Date
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P3		AMENDED TO SUIT CLIENT REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL. NOT FOR CONSTRUCTION	AST	05.04.2017
DA1		ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION	AST	06.06.2017

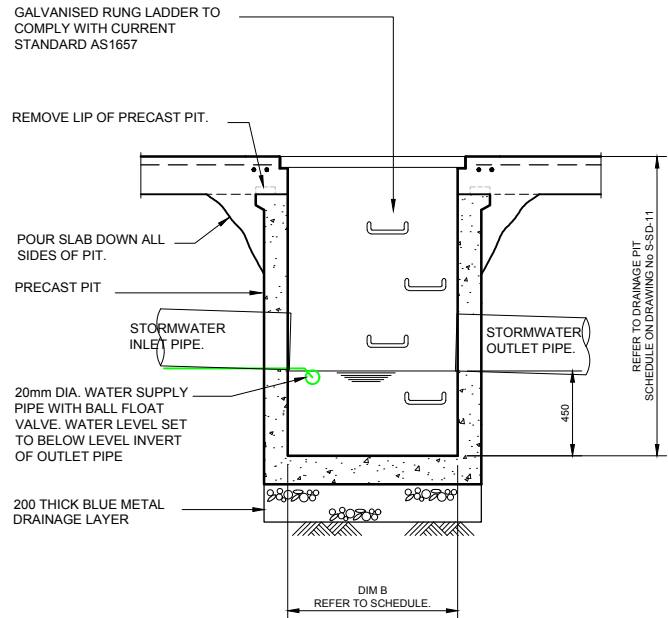
Chartered Member:
BUILDING DESIGNERS AUSTRALIA
No. 1016
Victoria : RBP DP-AD 15329
Queensland : QBCC 1082914
Tasmania : APT 000000000
New Zealand : DP 13182

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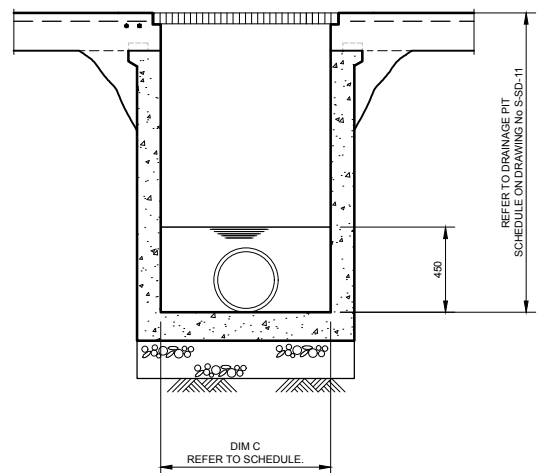
Project
ELGAS STORAGE FACILITY
Part Lot 1 DP 1195449 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
STORMWATER SCHEDULES AND DETAILS SHEET 1

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION

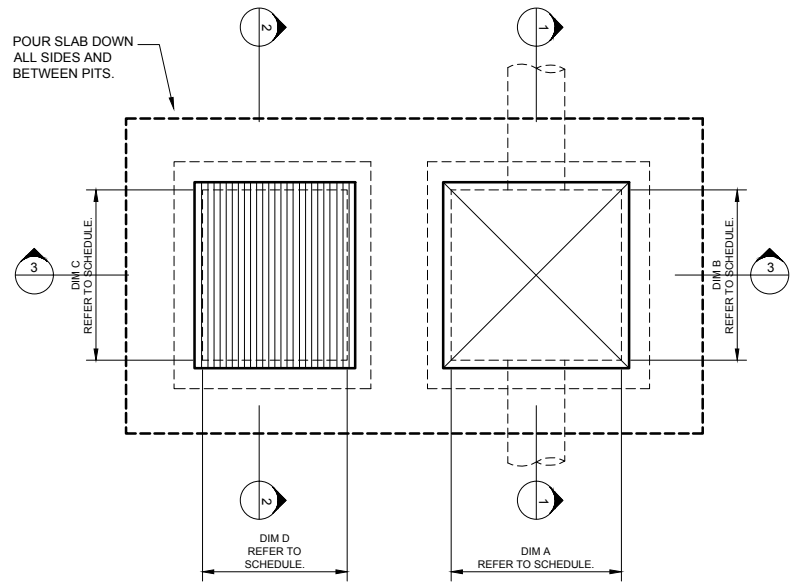
Approved	Designed
Date	Drawn
APRIL 2015	VP
Scale	Checked
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Project No.	Drawing No.
14 - 002	SD - 02
	DA1



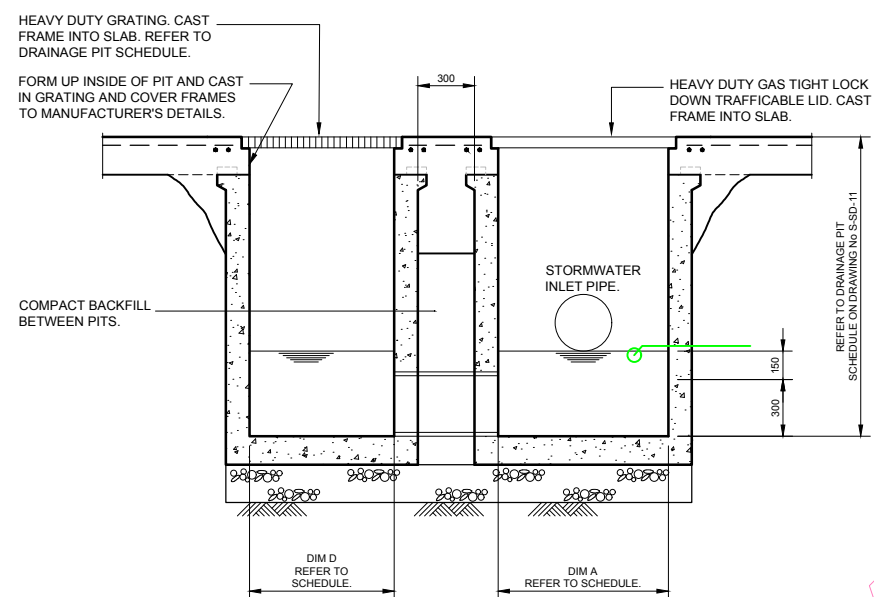
SECTION 1



SECTION 2

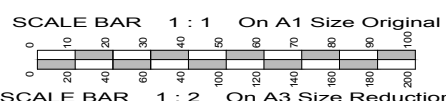


SECTION 3



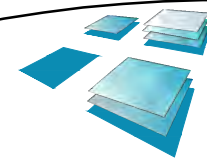
STORMWATER DRAINAGE WET PIT DETAIL
SIP-32 AND SIP-33

PIT	DIM A	DIM B	DIM C	DIM D
SIP-32	900	900	900	900
SIP-33	900	900	900	900



No.	Amendment	By	Date
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DA1	ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION	AST	06.06.2017

Chartered Member:
BUILDING DESIGNERS AUSTRALIA
Victoria: RBP DP-AD 15329
Queensland: QBCC 1082914
Tasmania: AEC 0000000
New Zealand: SP 31162

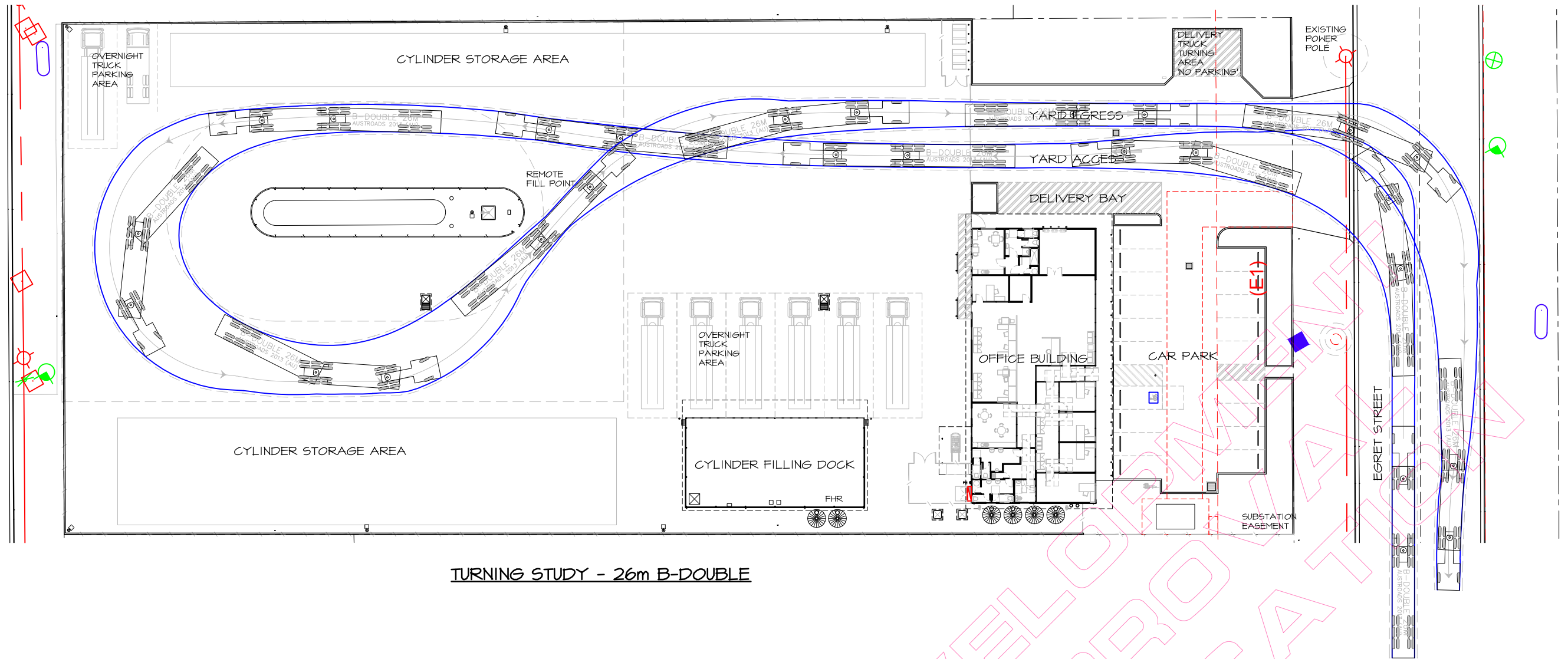


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ELGAS STORAGE FACILITY
Part Lot 1 DP 1195449 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
STORMWATER DETAILS SHEET 2

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION

Approved	Designed
Date	Drawn
APRIL 2017	AST
Scale	Checked
1:20 @ A1 1:40 @ A3	
Project No.	Amdt.
14 - 002	SD - 03
	DA1



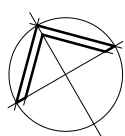
TURNING STUDY - 26m B-DOUBLE

VEHICLE TYPE	B-DOUBLE
LENGTH OVERALL	26m
TRACTOR WIDTH	2.5m
TRAILER WIDTH	2.5m
TRACTOR TRACK	2.5m
TRAILER TRACK	2.5m
LOCK TO LOCK TIME	6.0s
STEERING ANGLE	23.4°
ARTICULATING ANGLE	70.0°
THE VEHICLE TURNING PATHS SHOWN ON THIS DRAWING HAVE BEEN GENERATED USING AutoTURN 9.0, CONFIGURED TO MEET THE REQUIREMENTS OF AUSTRROADS 2013 AS DETAILED ABOVE.	

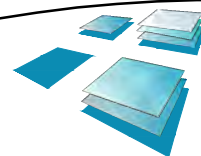
ISSUED FOR DEVELOPMENT APPROVAL
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SCALE BAR 1 : 1 On A1 Size Original
SCALE BAR 1 : 2 On A3 Size Reduction

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No.	Amendment	By	Date
P1	PRELIMINARY ISSUE. NOT FOR CONSTRUCTION.	AST	8.12.2014
P2	REVISED PRELIMINARY ISSUE. NOT FOR CONSTRUCTION.	AST	11.12.2014
P3	FINAL DRAFT DA SET FOR APPROVAL ONLY. NOT FOR CONSTRUCTION.	VP	08.05.2015
P4	AMENDED TO SUIT ELGAS REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL. NOT FOR CONSTRUCTION.	AST	05.04.2017
P5	AMENDED TO SUIT CLIENT REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL.	VP	04.05.2017
DA1	ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION	AST	06.06.2017
DA2	DUMP TANK REMOVED. ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION	AST	21.06.2017



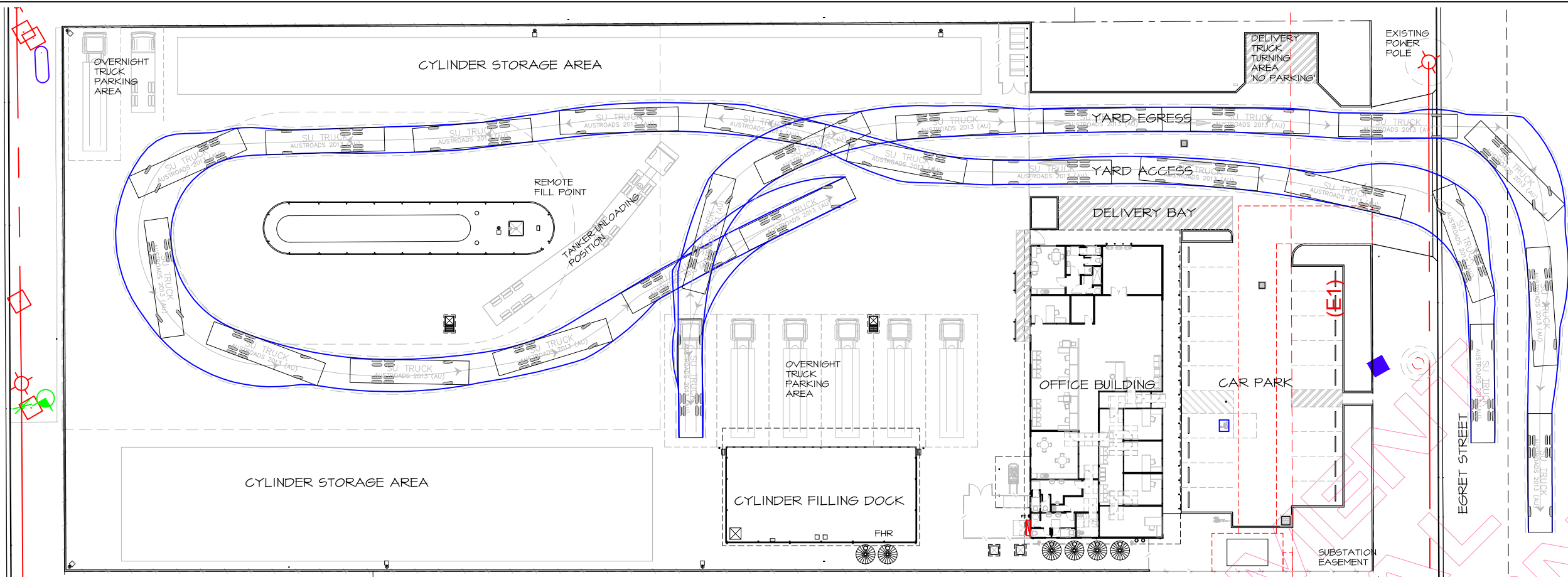
Chartered Member:
BUILDING DESIGNERS AUSTRALIA
100 Victoria Road, Suite 1016
Victoria: RBP DP-AD 15329
Queensland: QBCC 1082914
Tasmania: APB 0000011
New Zealand: BRP 13192



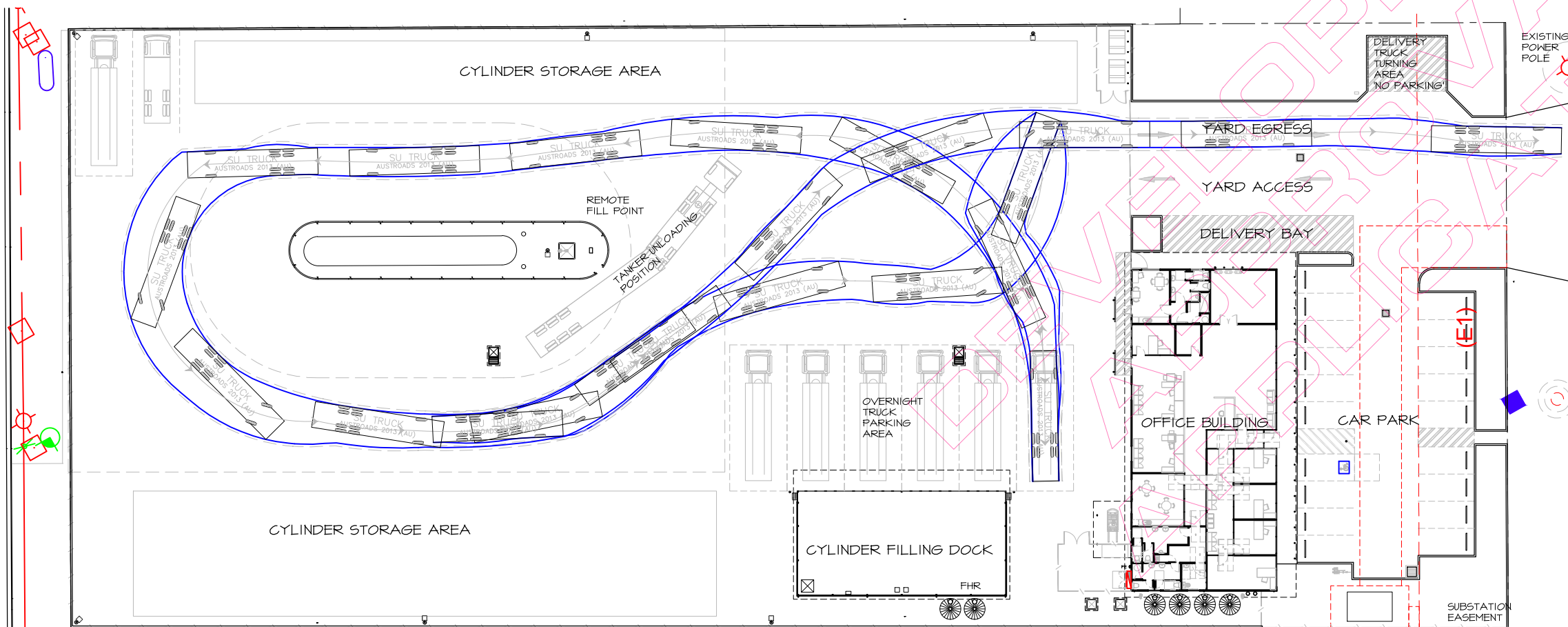
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Project
ELGAS STORAGE FACILITY
Part Lot 1 DP 1145444 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
TURNING STUDY - 26m B-DOUBLE

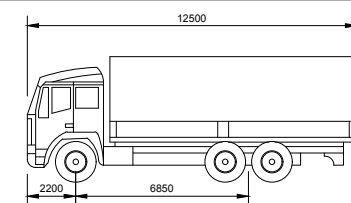
Approved	Designed
Date	4th DECEMBER 2014
Scale	1 : 250 @ A1 1 : 500 @ A3
Project No.	14 - 002
Drawing No.	TS - 01
Amdt.	DA2



TURNING STUDY - 12.5m RIGID REVERSE TO PARK - DRIVE FORWARD TO EXIT



TURNING STUDY - 12.5m RIGID REVERSE TO PARK - DRIVE FORWARD AROUND TANK TO EXIT



VEHICLE TYPE	SINGLE UNIT TRUCK
LENGTH OVERALL	12.5m
WIDTH OVERALL	2.5m
TRACK	2.5m
WHEEL BASE	6.85m
LOCK TO LOCK TIME	6.0s
STEERING ANGLE	36.6°

THE VEHICLE TURNING PATHS SHOWN ON THIS DRAWING HAVE BEEN GENERATED USING AutoTURN 9.0, CONFIGURED TO MEET THE REQUIREMENTS OF AUSTRROADS 2013 AS DETAILED ABOVE.

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SCALE BAR 1 : 1 On A1 Size Original

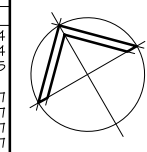


SCALE BAR 1 : 2 On A3 Size Reduction

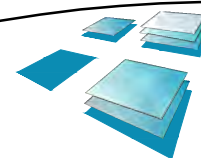
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P1	PRELIMINARY ISSUE. NOT FOR CONSTRUCTION.	AST	8.12.2014
P2	REVISED PRELIMINARY ISSUE. NOT FOR CONSTRUCTION.	AST	11.12.2014
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P4	AMENDED TO SUIT ELGAS REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL.	AST	05.04.2017
P5	AMENDED TO SUIT CLIENT REQUIREMENTS. REVISED DRAFT DA SET FOR APPROVAL.	VP	04.05.2017
DA1	ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION	AST	06.06.2017
DA2	DUMP TANK REMOVED. ISSUED FOR DEVELOPMENT APPROVAL. NOT FOR CONSTRUCTION	AST	21.06.2017



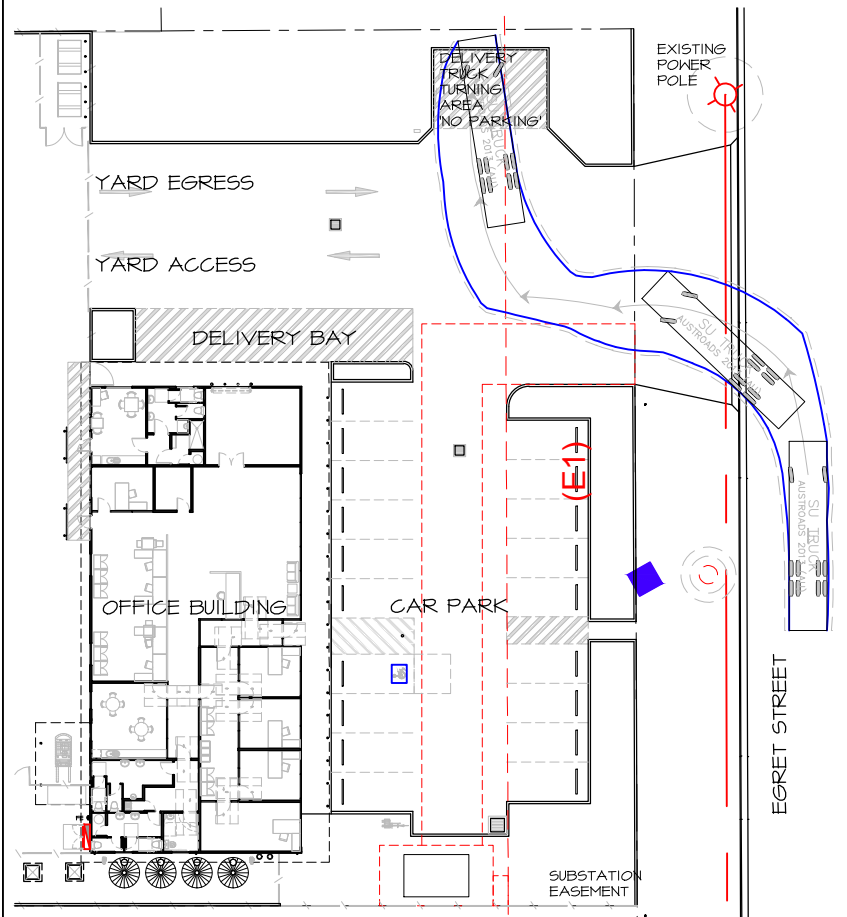
Chartered Member:
BUILDING DESIGNERS AUSTRALIA
Bella Vista NSW 2153
Victoria: RBP DP-AD 15329
Queensland: QBCC 1082914
Tasmania: APB 0000010
New Zealand: DP 13182



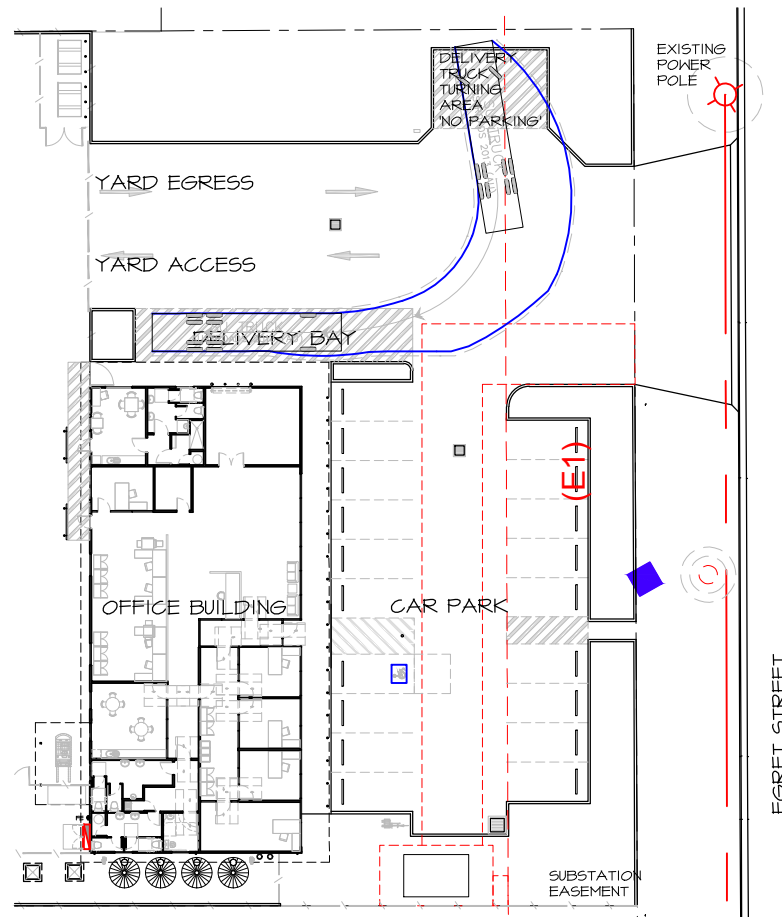
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ELGAS STORAGE FACILITY
Part Lot 1 DP 1145444 - CORMORANT ROAD Cnr. EGRET STREET
KOORAGANG NSW
FOR
SOVECHLES NOMINEES Pty Ltd
Drawing Title
TURNING STUDY - 12.5m RIGID

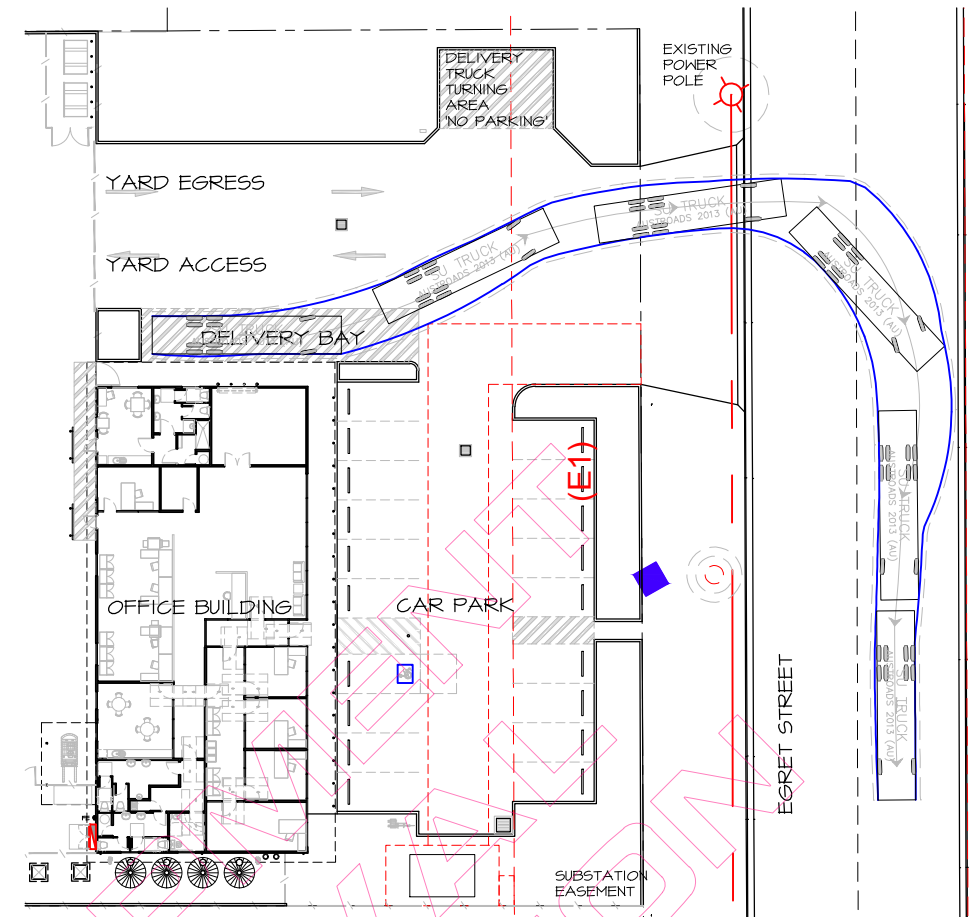
Approved	Designed
Date 4th DECEMBER 2014	Drawn AST
Scale 1 : 250 @ A1 1 : 500 @ A3	Checked
Project No. 14 - 002	Drawing No. TS - 02
	Amdt. DA2



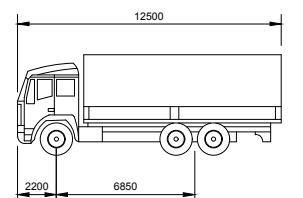
TURNING STUDY - DELIVERY BAY - 12.5m RIGID
MANOEUVRE ONE - DRIVE INTO TURNING BAY



TURNING STUDY - DELIVERY BAY - 12.5m RIGID
MANOEUVRE TWO - REVERSE INTO BAY



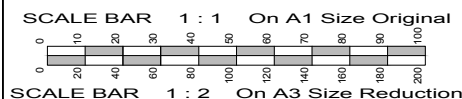
TURNING STUDY - DELIVERY BAY - 12.5m RIGID
MANOEUVRE THREE - DRIVE OUT



VEHICLE TYPE	12.5m RIGID
LENGTH OVERALL	12.5m
TRACK WIDTH	2.5m
LOCK TO LOCK TIME	6.0s
STEERING ANGLE	36.6°

THE VEHICLE TURNING PATHS SHOWN ON THIS DRAWING HAVE BEEN GENERATED USING AutoTURN 9.0, CONFIGURED TO MEET THE REQUIREMENTS OF AUSTRADS 2013 AS DETAILED ABOVE.

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Project	ELGAS STORAGE FACILITY Part Lot 1 DP 1145444 - CORMORANT ROAD Cnr. EGRET STREET KOORAGANG NSW FOR SOVECHLES NOMINEES Pty Ltd		
Drawing Title	TURNING STUDY - DELIVERY BAY		
Approved	4th DECEMBER 2014	Designed	RJS
Date		Drawn	AST
Scale	1 : 250 @ A1 1 : 500 @ A3	Checked	
Project No.	14 - 002	Drawing No.	TS - 03
		Amdt.	DAI