

Virginia Hemsley

To: Clancy Beveridge
Cc: Emmitt Housman; Rodney Carsburg
Subject: RE: St Ann's carpark subgrade replacement
Attachments: VW007 Subgrade replacement.pdf; VW009 Subgrade replacement over tank area.pdf; 210420 Anns St Earthworks Report - CARPARK RAMP to FSL less 280mm.pdf; 210420 Anns St Earthworks Report - TANK BOX to FSL less 280mm.pdf; 210420 Anns St Earthworks Report - 300 BOX SGR to FSL less 280mm.pdf; Tank subgrade area.png; Pickup Area and Volumes.png

Clancy,

Please find attached the Data pick up in the Carpark subgrade replacement and variation costs involved.

All work carried out was as per Note 7, 8, 9, 11 and 15 on drawing C.01 and specifications (sections 02315, 02630 and 02740).

Regards,

Virginia Hemsley
Accounts Officer

'Earthmoving Excellence'

207 Elliot Road, Banyo QLD 4014

T: (07) 3267 8033 M:

virginia@carsburgearthmoving.com.au

www.carsburgearthmoving.com.au

MACHINE & TRUCK HIRE – SAND & GRAVEL SUPPLY – PROJECT SOLUTIONS

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From: Clancy Beveridge <clancy@insitecs.com.au>

Sent: Tuesday, 13 April 2021 10:04 AM



To: Rodney Carsburg <rodney@carsburgearthmoving.com.au>; Emmitt Housman <emmit.housman@insitecs.com.au>; Virginia Hemsley <virginia@carsburgearthmoving.com.au>
Subject: RE: St Ann's carpark subgrade replacement

Hi Rodney,

Please proceed with the works as per the rates provided.

Note ive received verbal confirmation that a 200mm cover on the tanks will be sufficient for running of truck and trailer however we have requested this in writing before work continues.

Kind regards,

M: 0448 166 486 | P: 07 3348 8439
E: clancy@insitecs.com.au
6/8 Metroplex Avenue, Murarrie Q.4172

QBCC: 1509 0273
ABN: 79 612 898 414



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From: Rodney Carsburg <rodney@carsburgearthmoving.com.au>

Sent: Tuesday, 13 April 2021 08:47

To: Clancy Beveridge <clancy@insitecs.com.au>; Emmit Housman <emmit.housman@insitecs.com.au>; Virginia Hemsley <virginia@carsburgearthmoving.com.au>

Subject: St Ann's carpark subgrade replacement

Clancy, the body truck rate for soft spot removal for the carpark subgrade replacement is \$97.62 p/m3 as per the truck and trailer rate of \$75 p/m3 in the BOQ's. I can confirm area and volume with Total Station data . Can you confirm acceptance so to avoid delays in programming.

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St Anns - Redbank Plains - Bill of Quantities - Rev 2					
	Item Description	Quantity	Unit	Unit Rate (Ex GST)	Amount (Ex GST)
1	P&G				
1.1	Site Establishment & Dis-establishment		Lump Sum	N/A	\$3,000.00
1.2	Additional Site Establishment & Dis-establishment's - for Car Park at a later date		Lump Sum		\$2,500.00
1.3	Supply HSQE documentation / program / insurances and any other necessary documentation - does not necessarily include the use of 3rd party online HSQE system - unless agreed		Lump Sum	N/A	\$1,200.00
1.4	Topographical Survey at commencement & on completion		Lump Sum	N/A	
	Survey Costs - use lower value if not using our Stormwater Pricing below!!				
1.5	Survey setout - excl S/W		Lump Sum	\$2,800.00	\$2,800.00
1.7	Survey Asbuilt - excl S/W - by Registered Surveyor		Lump Sum	N/A	n/a
1.9	Traffic control - excluded by builder		Lump Sum	N/A	by builder
1.10	Pothole for Existing Services - 3T & Spotter		hrly	\$195.00	hrly rate
	Sub Total				\$9,500.00
2	Environmental Control				
	Car Park				
2.1	Silt Fence Erection	66	m	\$7.50	by builder
2.2	Temporary entrance shake down's - excl steel grids	1	No	\$1,500.00	by builder
2.3	e/o- incl steel grids for job duration		No	\$1,900.00	rate only
2.4	Sediment Protection to various Pits - during construction - existing	6	No	\$125.00	by builder
	New Build				
2.1	Silt Fence Erection	57	m	\$7.50	by builder
2.2	Temporary entrance shake down's - excl steel grids	1	No	\$1,500.00	by builder
2.3	e/o- incl steel grids for job duration		No	\$1,900.00	rate only
2.4	Sediment Protection to various Pits - during construction - existing	1	No	\$125.00	by builder
2.5	Sediment Protection to various Pits - during construction - proposed	1	No	\$125.00	by builder
2.6	Diversion Drain incl check dams to top of R/W (any turfing by landscaper)	35	m	\$50.00	\$1,750.00
2.7	Dust Suppression - earthwork / pavement rates inclusive of onsite water-cart				incl
2.8	Road Sweeping - in the event material tracked onto roads - otherwise POA for daily / weekly undertaking				incl
2.9	Wash-down Bay				POA
	Temporary / Permanent - Sediment Basin				n/a
	BioRetention Basin				n/a
	Sub Total				\$1,750.00
3	Demolition & Earthworks				
	Demolition				
3.1	Wall Removal		LS		by others
3.2	Hardstands and man-made surfacing		LS		by others
3.3	Tree Removal incl Root Structure		LS		n/a
3.4	Saw cutting to existing AC	73	m	\$5.00	\$365.00
	Car Park				
	Earthworks				
3.6	Remove 100mm topsoil / grass covering to waste -870m2		m3	\$25.00	rate only
3.7	Remove 100mm topsoil / grass covering to stockpile for re-use in Landscape Zones	87	m3	\$10.00	\$870.00
3.12	Cut to Waste - Box out - 870m2 x 280mm	244	m3	\$21.50	\$5,246.00
3.13	extra over for non rippable rock with 21T Excavator - rate only		m3	\$90.00	rate only
3.19	Final Trim & Proof Roll Subgrade	870	m2	\$3.00	\$2,610.00
3.20	extra-over Remove & Replace soft spots - utilise on-site materials - rate only		m3	\$55.00	rate only
3.21	extra-over Remove & Replace soft spots - import - cohesive soil / cleanfill - CBR3+ - rate only		m3	\$65.00	rate only
3.22	extra-over Remove & Replace soft spots - import - granular - CBR10/15+ - rate only		m3	\$80.00	rate only
	New Build				
	Earthworks				
3.6	Remove 100mm topsoil / grass covering to waste -Approx 2090m2		m3	\$25.00	rate only
3.7	Remove 100mm topsoil / grass covering to stockpile for re-use in Landscape Zones	209	m3	\$10.00	\$2,090.00
3.12	Cut to Waste -Qty as per Designers BOQ - (2308+30+157) -(87+244+209)	1955	m3	\$21.50	\$42,032.50
3.13	extra over for non rippable rock with 21T Excavator - rate only		m3	\$90.00	rate only
3.19	Final Trim & Proof Roll Subgrade	2090	m2	\$1.00	\$2,090.00
3.20	extra-over Remove & Replace soft spots - utilise on-site materials - rate only		m3	\$55.00	rate only
3.21	extra-over Remove & Replace soft spots - import - cohesive soil / cleanfill - CBR3+ - rate only		m3	\$65.00	rate only
3.22	extra-over Remove & Replace soft spots - import - granular - CBR10/15+ - rate only		m3	\$75.00	rate only
	Geotechnical				
3.47	Geotech Supervision - Level 1 incl N/D testing - but excluding RPEQ certification	1	LS	\$3,000.00	\$3,000.00
	Sub Total				\$58,303.50
4	Stormwater				
	Drainage - trench, supply, bed, lay, cap, joint and backfill concrete RCRRJ pipe incl CCTV				by builder
	Sub Total				\$0.00
	Sewer - By Plumber				
	Sub Total				\$0.00
	Water - By Plumber				
	Sub Total				\$0.00

	Item Description	Quantity	Unit	Unit Rate (Ex GST)	Amount (Ex GST)
	Site Services - excl by Electrical - Price available upon request				
	Services- trench, supply, bed, lay, cap, joint and backfill hdpe pipe incl , bends, bulk heads, marker posts, surface boxes, pressure testing etc				
	Sub Total				\$0.00
5	Pavements - Optional				
	Supply, lay, grade, compact and compaction test				
	Internal Only				
	Car Park				
	Flexible Pavment - 870m2 / 824m2				
5.1	CBR15 x 125mm	103	m3	\$70.00	rate only
5.2	CBR45 x 125mm	103	m3	\$75.00	\$7,725.00
5.3	e/o CBR45 x for kerb placement - 55m x 0.5m x 150mm	5	m3	\$75.00	\$375.00
5.4	Trim CBR45 - pre kerb	824	m2	\$3.00	\$2,472.00
5.5	CBR80 x 125mmm	103	m3	\$80.00	\$8,240.00
5.6	Trim CBR80 - pre primecoat	824	m2	\$4.00	\$3,296.00
5.7	Prime Coat	824	m2	\$3.50	\$2,884.00
5.8	30mm x AC	824	m2	\$18.50	\$15,244.00
	Rigid Pavment				
	Concrete Paths				
5.12	CBR15 x		m3	\$80.00	\$0.00
5.13	Concrete Supply & Placement				by concretor
	Kerbing				
5.15	K&C Type E - Machine Pour	144	m	\$55.00	\$7,920.00
5.20	Subsoil drainage to kerbs (point of discharge by plumber if stormwater not part of scope)	144	m	\$35.00	\$5,040.00
	Road Marking - Optional				
5.21	White Lines - Single Coat - double rate for 2nd coat	152	m	\$2.00	\$304.00
5.22	Stop Lines	37	m	\$6.00	\$222.00
5.28	Directional Arrows	2	No	\$75.00	\$150.00
5.29	Combo Arrows	1	No	\$115.00	\$115.00
5.31	Wheel Stops	31	No	\$130.00	\$4,030.00
	Signage				
5.35	Right Turn Only	2	No	\$450.00	\$900.00
5.36	No Entry	1	No	\$450.00	\$450.00
5.37	Relocating existing	2	No	\$250.00	\$500.00
	External Only				
	Sub Total				\$61,087.00
6	Detailed Excavations				
	Excavate for				
6.1	Footings / Thickeneing		m3		POA
	Sub Total				\$0.00
7	Retaining Walls				
	Backfill to				
	Sub Total				\$0.00

TOTALCOST (excl GST)	\$130,640.50
GST	\$ 13,064.05
TOTALCOST (Incl GST)	\$ 143,704.55

Variation Charge Sheet



PROJECT	St Anns	DATE	15/04/2021
INITIATED BY	Rod	Instruction No.	as per email
AUTHORISED BY	Clancy	CV No.	7
CHARGED TO	Insite Constructions	IV NO	
DESCRIPTION	Subgrade replacement provisional box		

[illegible]

Variation Charge Sheet



PROJECT	St Anns	DATE	15/04/2021
INITIATED BY	Rod	Instruction No.	As per email
AUTHORISED BY	Clancy	CV No.	8
CHARGED TO	Insite Constructions	IV NO	
DESCRIPTION	Subgrade replacement level 1 testing		

[illegible]

Variation Charge Sheet



PROJECT	St Anns	DATE	15/04/2021
INITIATED BY	Rod	Instruction No.	as per email
AUTHORISED BY	Clancy	CV No.	9
CHARGED TO	Insite Constructions	IV NO	
DESCRIPTION	Subgrade replacement over tank area		

[illegible]

Is this claim subject to time extension? If so provide details:

	Sub Total	\$ 11,303.58
Overhead & Margin	0.0%	\$ -
TOTAL SUBMITTED (Ex GST)		\$ 11,303.58

Virginia Hemsley

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Sent: Tuesday, 13 April 2021 10:04 AM
To: Rodney Carsburg; Emmitt Housman; Virginia Hemsley
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Hi Rodney,

Please proceed with the works as per the rates provided.

Note ive received verbal confirmation that a 200mm cover on the tanks will be sufficient for running of truck and trailer however we have requested this in writing before work continues.

Kind regards,
CLANCY BEVERIDGE
Contracts Administrator



M: 0448 166 486 | P: 07 3348 8439
E: clancy@insitecs.com.au
6/8 Metroplex Avenue, Murarrie Q.4172

QBCC: 1509 0273
ABN: 79 612 898 414



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SECTION 02740 BITUMINOUS CONCRETE PAVEMENT

SCOPE OF WORK *Perform work described here and shown on drawings including but not limited to:*

Excavation, preparation of sub-grade, base courses, laying and compaction, bituminous concrete surfacing, lane marking.

CO-OPERATE WITH THESE OTHER TRADES *to resolve possible problems before starting work:*

Excavation & fill, sanitary sewerage, storm drainage, concrete pavement, kerbs and gutters.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS *Current edition*

AS 2150 2005 Hot mix asphalt – A guide to good practice.

AS 2758 Aggregates and rock for engineering purposes. *There are 7 parts, 2000-2015*

AS 2876 2000 Concrete kerbs and channels (gutters) - Manually or machine placed.

AS 4049 Paints and related materials - Pavement marking materials.

There are 5 parts, 2005 - 2007.

AUSTROADS www.onlinepublications.austroads.com.au/?override=1 Supplies a range of technical bulletins. Where relevant, comply with standards of pavement construction as available from State Road Construction authority.

Comply throughout with the current edition of the NCC.

MATERIALS TO BE USED

Comply with the material specification of the appropriate State Road Construction authority. Such specifications define materials required for various classes of load capacity.

Refer to Civil Engineers Drawings.

Line Marking

Local council specifications

Equipment

Provide and employ equipment required for satisfactory completion of the work.

PREPARATION *Inspect conditions at site before starting the work.*

Review services owner requirements for working on, near or over services at the location, locate and identify existing services before excavation commences

Ensure that suitable conditions exist at the time of start of work. Prevent delay in job schedule. Remove surface material to required depth. Test compaction capacity of natural material. Fill soft spots with crushed rock to required compaction. Shape to specified falls. Allow for installation by other trades of drainage and other items.

Comply with civil engineer's instructions.

ON SITE ACTIONS *Start of work means total acceptance of conditions. Refer to Appendix E*

Installation of Base Course

Comply with State Road Construction authority, Spec No. . See above or spread base course material in layers between 100 and 150mm thick. Compact to 100% of standard maximum dry density with minimum 10 tonne roller. Employ a vibrating roller as necessary. Maintain damp condition of material until seal is applied. Employ 15 tonne roller for final compaction.

Testing

Allow for 3 separate compaction density tests to be conducted in random locations by a NATA approved testing organisation.

Should tests prove unsatisfactory, repair the work and repeat tests to a satisfactory result without cost to the proprietor.

Pavement Courses

Finish pavement courses consisting of layers of wet-mix crushed rock to smooth and uniform surfaces and conform to the lines, grades and cross sections shown on the drawings, within the following limits:

A. Level: The top of each pavement course: within 10 mm of level shown on drawing.

B. Thickness: of the top course of the Wet Mix pavement: within the tolerance of +5, -10mm.

C. Shape: Finished surface of the pavement course: within 10mm either way from a 3 metre straight-edge laid parallel to the centre line of the pavement or from a template placed at right angles to the centreline.

Prime Coat

Prime with cut back bitumen suitable for the surface of base material and prevailing weather conditions. Apply in compliance with state authority specification.

Tack Coat

If required, apply tack coat to clean dry surface. Consulting engineer will determine necessity for this item. Apply in compliance with state authority specification.

Bituminous Concrete

Prepare adjacent surfaces such as longitudinal joints, kerbs, channels, headers, manholes, etc. with a thin uniform tack coat. Install bituminous concrete with approved equipment in suitable climatic conditions. Form straight and waterproof joints with even texture and density.

Compact without delay and finish smooth and true to established grades.

Thoroughly compact areas around kerbs, channels, manholes to same density as other surfaces.

Thickness of bituminous concrete is not to vary more than 7mm from that indicated on drawings.

Replace low or defective areas immediately by cutting out and replacing with fresh hot mix and compacting to conform to surrounding areas. Entire area is to be free draining on completion.

The finished work is not to be less than 97% of laboratory tested specified density.

Lane Marking

Comply with local authority requirements regarding sizes of parking bays and traffic control.

Mark pavement surface as instructed. Comply with AS 4049.

COMPLETION

Complete work in accordance with instructions and written variation orders to satisfactory performance.

WARRANTY

Provide to proprietor a Warranty covering satisfactory performance of the complete installation.

END OF SECTION

SECTION 02315 EXCAVATION & SITE WORKS

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to:

Stockpile topsoil for re-use in future landscaping under direction of the architect.
Where appropriate, equalize excavation with fill material as approved by the architect.
Protect all trees and vegetation identified for preservation on the site plan.
Prepare site, excavate for roads, paving, drains, pits, foundations, slabs. Remove trees and other vegetation, including roots, where they prevent building work, paving, trenches etc. Allow for installation of material required for termite management system.

CO-OPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work
Water distribution, sanitary sewerage, storm drainage, pavements, concrete.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current edition.
AS 1289 Methods of testing soils for engineering purposes.
There are many parts, 1995 - 2014; each refers to a specific application.
1289.5 1.1 2003 Soil compaction and density tests.
AS 2187 Explosives - Storage, transport and use.
AS 3660 Termite management. *There are 3 parts –2000-2014.*
AS 3798 2007 Guidelines on earthworks for commercial and residential developments.
AS/NZS 4200 Pliable building membranes and underlays. *There are 2 parts.*
4200.2 1994 Installation requirements.
AS 4678 2002 Earth-retaining structures.
AS 4970 2009 Protection of trees on development sites. *There is 1 Amdmt, 2010*
Comply with particular specifications in Building Regulations and/or Local Council publications.

Definitions:
Rock: natural or artificial material encountered in the excavation which cannot be removed until broken up by mechanical means such as rippers, jackhammers or percussion drills.
Rippable Rock: Means rock which can be removed by a single tine, "D9" ripper.
Non-Rippable Rock: Means all other rock. Other than Rock: other material encountered in excavation.
Sub-Grade: The natural ground below the excavations. Filling: A general term for material spread and compacted over the sub-grade to make up levels to the underside of the base. Subbase: Select filling spread and complete over sub-grade to compaction to make up levels to the underside of the base. Base: A selected filling layer spread and compacted to form an acceptable working surface directly under the building.
Comply throughout with the current edition of the NCC.

MATERIALS TO BE USED
Refer to Appendix D, E, F & G

Item	Description	Manufacturer
Termite control	Kordon Termite Barrier	
Rock removal	Refer to Structural Engineers Drawings. Refer to Structural Engineers Drawings. Contractor to all for the removal of all rock irrespective of the nature of the subgrade material. Refer to Geotechnical Report for indication of rock depth.	
Filling	Refer to Civil and Structural Engineers Drawings.	
Waterproof membrane	0.2mm thick plastic film	
Back filling	Refer to Civil and Structural Engineers Drawings.	

PREPARATION Inspect conditions at site before starting work.
Obtain and confirm the locations, depths and types of underground and overhead services at the site and develop documentation and procedures to ensure service owner requirements are complied with.
Clear site, for building and paving, of plants, trees and rocks etc. shown on plan.

ON-SITE ACTIONS Start of work means total acceptance of conditions.
Below slabs on ground: Hardcore
Below footings, beams and other structural elements: concrete of strength equal to the structural element, minimum 15MPa.
In service trenches: 1:2:4 concrete/approved compacted pipe bedding material.
Excavation for strip footings and edge beams, paving, water and piped supply and drains, pits. Apply termite management system.
Provide fill and compact in 150 mm layers, to 95% of maximum density, by vibrating or watering. Protect excavations and existing underground or overhead services from damage. Maintain excavations free of water. Install waterproof membrane over sand.
Seal laps. Take underlay in walls to level of top of slab. Seal, terminate, remove or protect and record location, type and services located at the site as work progresses and provided details to the principal before burying any service in ground, structure etc..
Inspect and repair membrane before concrete pour.

COMPLETION
Complete work in accordance with instructions and written variation orders.

WARRANTY
Provide to proprietor a Warranty covering satisfactory performance of the complete installation.

END OF SECTION

SECTION 02630 STORM DRAINAGE

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to:
Supply and lay a complete system of site storm water drainage including agricultural drains, drains below slabs and pavements, retaining wall drains, culverts, pits, frames, manhole covers.
Apply for permits and pay required fees and charges to responsible authorities. Provide permits and approval certificates to contractor.

CO-OPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work
Sanitary sewerage, concrete, concrete pavement, masonry pavers, excavation & fill, bituminous concrete pavement.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current edition.
AS 1379 2007 Specification and supply of concrete. There are 2 Amdmts 2009, 2015 Supplement 2008.
AS/NZS 1547 2012 On site domestic wastewater management
AS/NZS 3500 Plumbing and drainage. There are numerous other parts, 1996-2015.
3500.3 2015 Stormwater drainage
3500.3.1 1998 Stormwater drainage - Performance requirements.
3500.5 2012 Housing installations.
AS 3600 2009 Concrete structures. 2 Amdmts 2010, 2013.
Comply throughout with the current edition of the NCC.

MATERIALS TO BE USED
Refer to Hydraulics Drawings

PREPARATION Inspect conditions at site before starting work
Review services owner requirements for working on, near or over services at the location, locate and identify existing services before excavation commences
Form straight and true trenches 600mm clear of walls, maintain sides, and free from water. Form trenches and bedding to provide constant falls as approved by the local authorities. Prepare trenches and paths of pipes through structure.
Contractor to form cutouts of minimum size to take pipes. Not to be done by plumber.
After inspection (and testing) where required, back-fill with material approved by Local Council Engineer and architect.

ON-SITE ACTIONS Start of work means total acceptance of conditions
Ensure correct pipe sizes. Provide upstands to and connect to bottom of downpipes. Provide inspection openings where authority requires (usually at 6 metre intervals), bends and junctions. Provide complete seals at junctions and ends in accordance with manufacturers written instructions. Comply with statutory requirements for trenches and excavations. Under buildings run pipes below ground where crawl space access would be otherwise compromised
Arrange for inspection by local authority. When issued, prepare as-built drawings detailing types of service, depth and location before backfilling with material approved by authority. Remove debris and clean areas beside excavation for drains.
For water tank(s) provide a level, stable compacted sand base no less than 100mm thick or reinforced concrete slab on compacted base. Refer manufacturer's recommendations for details and drawings for location.

COMPLETION
Complete work in accordance with instructions and written variation orders.

TESTING
Test each installation to verify satisfactory performance of each component specified.

END OF SECTION

Project File Data		Coordinate System	
Name:	Y:\Engineering Services\SitechClients\Carsburg Earthmoving Pty Ltd\210420 Ann St\Working\TBC\210420 Ann St Pickup.vce	Name:	Default
Size:	146 KB	Datum:	WGS 1984
Modified:	20/04/2021 10:38:48 AM (UTC:10)	Zone:	Default
Time zone:	E. Australia Standard Time	Geoid:	
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Earthworks Volume Report

Unclassified surface compared to Unclassified surface

Surfaces	
300 box sgr	Classification: Unclassified
210420 St Anns CP FSL -280mm	Classification: Unclassified

Embankment Volumes Based on Surface Geometry Alone	
Cut material	0.0 m³
Fill material	241.0 m³
Deficit	241.0 m³

Bank Areas Based on Surface Geometry Alone	
Cut area	0.0 m²
Fill area	788.0 m²
Zero volume area	0.0 m²
Total	788.0 m²

Depth summary	
Maximum depth of cut material	-
Maximum depth of fill material	0.346 m

Note: 'Cut Material' is defined as material where [210420 St Anns CP FSL -280mm] is lower than [300 box sgr]. 'Fill Material' is defined as the volume of material where [210420 St Anns CP FSL -280mm] is higher than [300 box sgr].

Note: The above volumes are calculated solely from the geometries of the selected surfaces. No material properties are applied to the above numbers.

Project File Data		Coordinate System	
Name:	Y:\Engineering Services\SitechClients\Carsburg Earthmoving Pty Ltd\210420 Ann St\Working\TBC\210420 Ann St Pickup.vce	Name:	Default
Size:	146 KB	Datum:	WGS 1984
Modified:	20/04/2021 10:38:48 AM (UTC:10)	Zone:	Default
Time zone:	E. Australia Standard Time	Geoid:	
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Earthworks Volume Report

Unclassified surface compared to Unclassified surface

Surfaces	
Carpark ramp	Classification: Unclassified
210420 St Anns CP FSL -280mm	Classification: Unclassified

Embankment Volumes Based on Surface Geometry Alone	
Cut material	6.3 m³
Fill material	3.6 m³
Excess	2.7 m³

Bank Areas Based on Surface Geometry Alone	
Cut area	26.9 m²
Fill area	21.4 m²
Zero volume area	0.0 m²
Total	48.2 m²

Depth summary	
Maximum depth of cut material	0.473 m
Maximum depth of fill material	0.323 m

Note: 'Cut Material' is defined as material where [210420 St Anns CP FSL -280mm] is lower than [Carpark ramp]. 'Fill Material' is defined as the volume of material where [210420 St Anns CP FSL -280mm] is higher than [Carpark ramp].

Note: The above volumes are calculated solely from the geometries of the selected surfaces. No material properties are applied to the above numbers.

Project File Data	Coordinate System
Name: Y:\Engineering Services\SitechClients\Carsburg Earthmoving Pty Ltd\210420 Ann St\Working\TBC\210420 Ann St Pickup.vce	Name: Default
Size: 146 KB	Datum: WGS 1984
Modified: 20/04/2021 10:38:48 AM (UTC:10)	Zone: Default
Time zone: E. Australia Standard Time	Geoid:
Reference number:	Vertical datum:
Description:	Calibrated site:
Comment 1:	
Comment 2:	
Comment 3:	

Earthworks Volume Report

Unclassified surface compared to Unclassified surface

Surfaces	
tank box	Classification: Unclassified
210420 St Anns CP FSL -280mm	Classification: Unclassified

Embankment Volumes Based on Surface Geometry Alone	
Cut material	0.0 m³
Fill material	189.8 m³
Deficit	189.8 m³

Bank Areas Based on Surface Geometry Alone	
Cut area	0.0 m²
Fill area	303.9 m²
Zero volume area	0.0 m²
Total	303.9 m²

Depth summary	
Maximum depth of cut material	-
Maximum depth of fill material	0.791 m

Note: 'Cut Material' is defined as material where [210420 St Anns CP FSL -280mm] is lower than [tank box]. 'Fill Material' is defined as the volume of material where [210420 St Anns CP FSL -280mm] is higher than [tank box].

Note: The above volumes are calculated solely from the geometries of the selected surfaces. No material properties are applied to the above numbers.

Project File Data		Coordinate System	
Name:	Y:\Engineering Services\SitechClients\Carsburg Earthmoving Pty Ltd\210420 Ann St\Working\TBC\210420 Ann St Pickup.vce	Name:	Default
Size:	160 KB	Datum:	WGS 1984
Modified:	20/04/2021 2:12:39 PM (UTC:10)	Zone:	Default
Time zone:	E. Australia Standard Time	Geoid:	
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Earthworks Volume Report

Unclassified surface compared to Unclassified surface

Surfaces	
tank box	Classification: Unclassified
300 box sgr	Classification: Unclassified

Embankment Volumes Based on Surface Geometry Alone	
Cut material	0.0 m³
Fill material	94.0 m³
Deficit	94.0 m³

Bank Areas Based on Surface Geometry Alone	
Cut area	0.0 m²
Fill area	303.7 m²
Zero volume area	0.0 m²
Total	303.7 m²

Depth summary	
Maximum depth of cut material	-
Maximum depth of fill material	0.474 m

Note: 'Cut Material' is defined as material where [300 box sgr] is lower than [tank box]. 'Fill Material' is defined as the volume of material where [300 box sgr] is higher than [tank box].

Note: The above volumes are calculated solely from the geometries of the selected surfaces. No material properties are applied to the above numbers.





LINEMARKING LEGEND

NTS



LEGEND - LAYOUT PLAN

PROPOSED

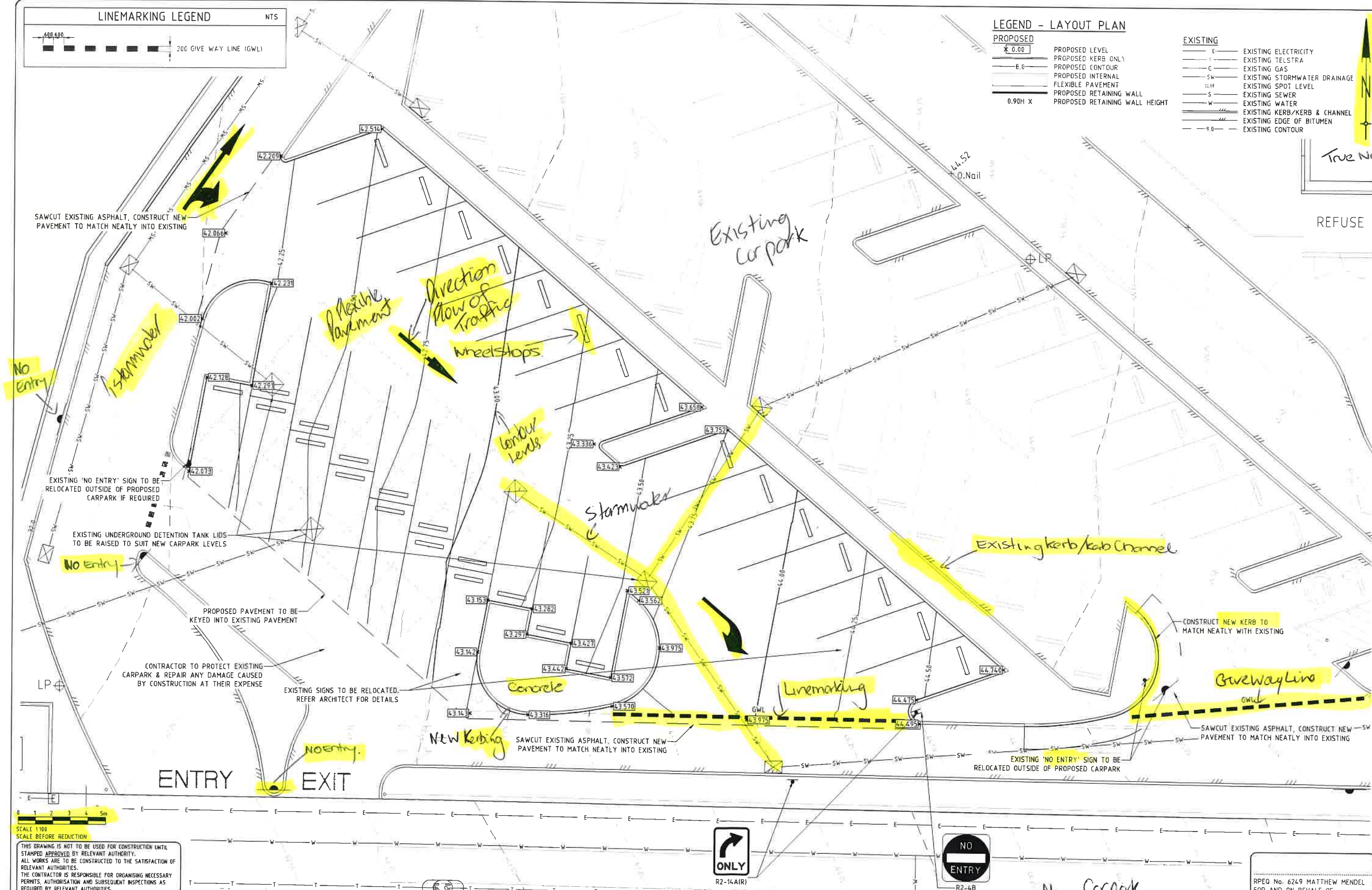
- PROPOSED LEVEL
- PROPOSED KERB ONLY
- PROPOSED CONTOUR
- PROPOSED INTERNAL
- FLEXIBLE PAVEMENT
- PROPOSED RETAINING WALL
- PROPOSED RETAINING WALL HEIGHT

EXISTING

- EXISTING ELECTRICITY
- EXISTING TELSTRA
- EXISTING GAS
- EXISTING STORMWATER DRAINAGE
- EXISTING SPOT LEVEL
- EXISTING SEWER
- EXISTING WATER
- EXISTING KERB/KERB & CHANNEL
- EXISTING EDGE OF BITUMEN
- EXISTING CONTOUR

True North

REFUSE



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PROPOSED CATHOLIC PRIMARY SCHOOL
67-87 HALLETTS RD, REDBANK PLAINS
STAGE 2

BRISBANE CATHOLIC EDUCATION
GIBSON ARCHITECTS

New Carpark
CIVIL SITEWORKS
LAYOUT PLAN
SHEET 1 OF 2

RPE No. 6249 MATTHEW MENDEL
FOR AND ON BEHALF OF
DEQ CONSULTING ENGINEERS

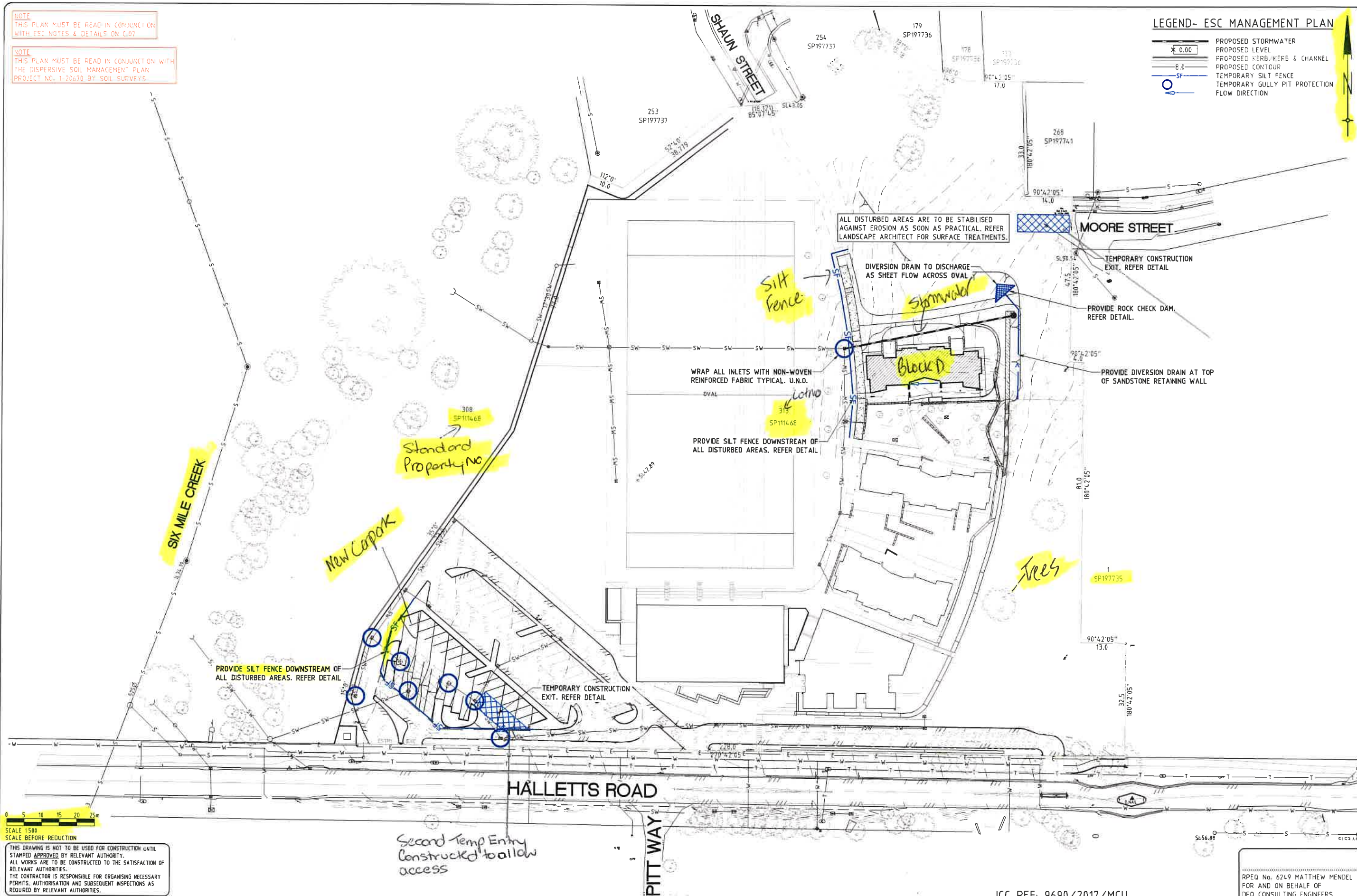
SCALE	AS SHOWN	DATE	AUG 2020
CONTACT:	NT	SHEET	2 OF 8
JOB No.	20.2137	DRG No.	C.02
CHECKED		DATUM	AHD

NOTE
THIS PLAN MUST BE READ IN CONJUNCTION
WITH ESC NOTES & DETAILS ON C.07

NOTE
THIS PLAN MUST BE READ IN CONJUNCTION WITH
THE DISPERSIVE SOIL MANAGEMENT PLAN
PROJECT NO. 1-20670 BY SOIL SURVEYS

LEGEND- ESC MANAGEMENT PLAN

- PROPOSED STORMWATER
- PROPOSED LEVEL
- PROPOSED KERB, KERB & CHANNEL
- PROPOSED CONTOUR
- TEMPORARY SILT FENCE
- TEMPORARY GULLY PIT PROTECTION
- FLOW DIRECTION



SCALE 1:500
SCALE BEFORE REDUCTION

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01.10.20	P3	FURTHER CO-ORDINATION ISSUE	NT				
25.09.20	P2	CO-ORDINATION ISSUE	NT				
24.08.20	P1	PRELIMINARY ISSUE	NT				

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PROPOSED CATHOLIC PRIMARY SCHOOL
67-87 HALLETTS RD, REDBANK PLAINS
STAGE 2

BRISBANE CATHOLIC EDUCATION
GIBSON ARCHITECTS

ICC REF: 9690/2017/MCU

CIVIL SITEWORKS
ESC MANAGEMENT PLAN

RPED No. 6249 MATTHEW MENDEL
FOR AND ON BEHALF OF
DEQ CONSULTING ENGINEERS

SCALE AS SHOWN	DATE AUG 2020
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20.2137	C.06
JOB No.	DRG. No.
CHECKED	DATUM: AHD

REFER EARTHWORKS NOTES ON DRAWING C.01

ALL EARTHWORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH SOIL SURVEYS GEOTECHNICAL INVESTIGATION PROJECT NO 1-22167 REVISION 2 ISSUE DATE 30.07.2020

LEGEND-BULK EARTHWORKS PLAN

* 0.00
 PROPOSED BULK EARTHWORKS LEVEL
 EXISTING CONTOUR
 EXISTING SPOT LEVEL
 PROPOSED CUT AREA
 PROPOSED FILL AREA
 PROPOSED RETAINING WALL
 PROPOSED RETAINING WALL HEIGHT
 0.90H X

REFUSE

Cut Area

Existing Carpark

EXISTING SIGNS TO BE RELOCATED.
REFER ARCHITECT FOR DETAILS

ENTRY EXIT

SCALE 1:100
SCALE BEFORE REDUCTION

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25.09.20	P2	CO-ORDINATION ISSUE	NT				
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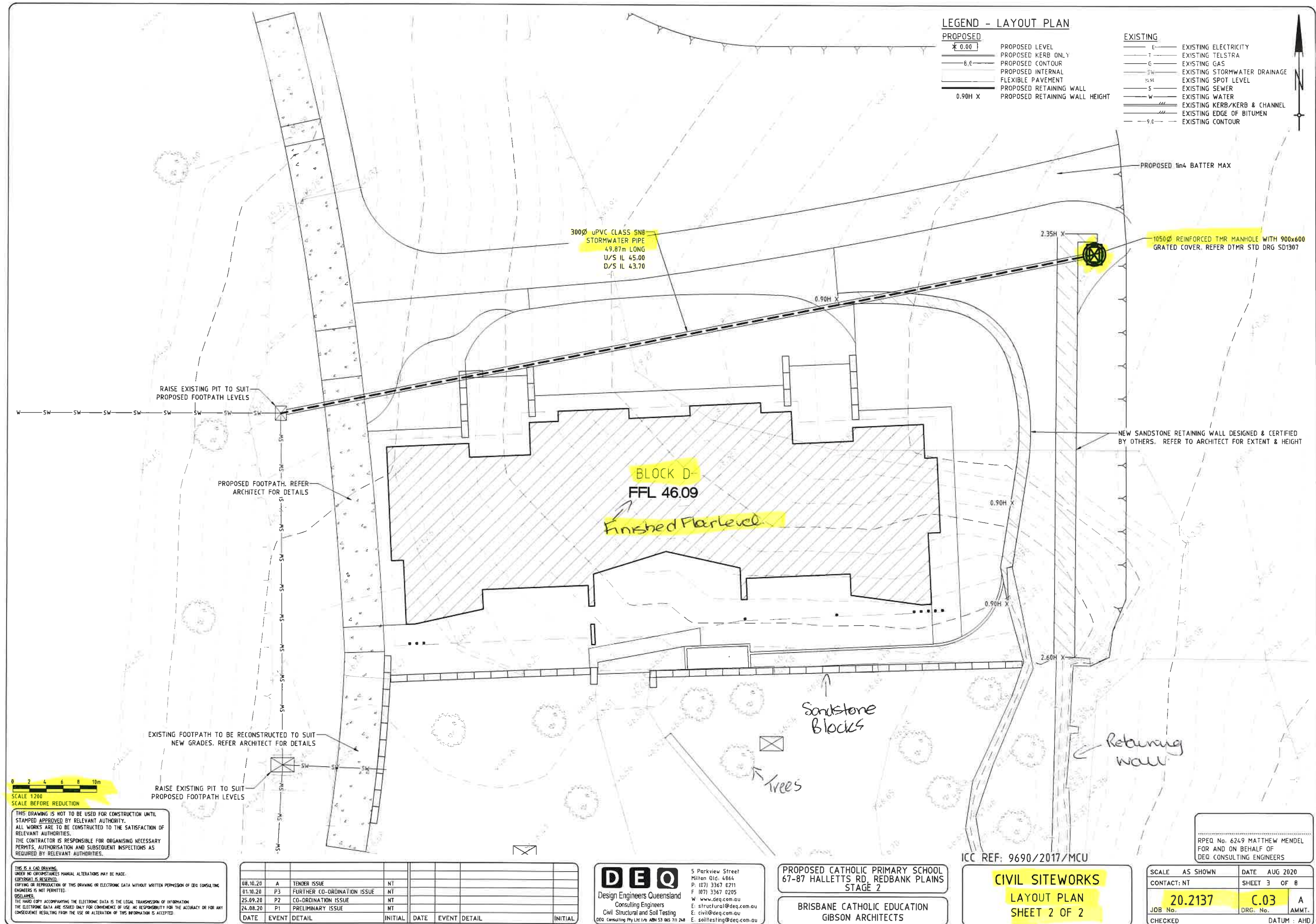
PROPOSED CATHOLIC PRIMARY SCHOOL
 67-87 HALLETTS RD, REDBANK PLAINS
 STAGE 2

BRISBANE CATHOLIC EDUCATION
 GIBSON ARCHITECTS

ICC REF: 9690/2017/MCU
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CIVIL SITEWORKS
 BULK EARTHWORKS PLAN
 SHEET 1 OF 2

SCALE A5 SHOWN	DATE AUG 2020
CONTACT: NT	SHEET 4 OF 8
JOB No. 20.2137	DRG. No. C.04
CHECKED	DATUM : AHD



SITE EROSION & SEDIMENT CONTROL

- PERSON(S) CONDUCTING LAND-DISTURBING DEVELOPMENT SHALL CONDUCT SUCH DEVELOPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF RELEVANT ENVIRONMENTAL LEGISLATION (E.G. THE ENVIRONMENTAL PROTECTION ACT 1994 AND THE ASSOCIATED ENVIRONMENTAL PROTECTION (WATER) POLICY 1997).
- ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL - INTERNATIONAL EROSION CONTROL ASSOCIATION (AUSTRALASIA) 2008'S 'BEST PRACTICE EROSION AND SEDIMENT CONTROL FOR BUILDING AND CONSTRUCTION SITES' OR LATER VERSION.
- ALL REASONABLE AND PRACTICABLE MEASURES ARE TO BE TAKEN TO:
 - ALLOW STORMWATER TO PASS THROUGH THE SITE IN A CONTROLLED MANNER AT NON EROSION FLOW VELOCITIES
 - MINIMISE SOIL EROSION FROM WATER AND WIND
 - MINIMISE ADVERSE EFFECTS OF SEDIMENT RUNOFF
 - MINIMISE OR PREVENT ENVIRONMENTAL HARM
 - ENSURE THAT NEIGHBOURING PROPERTIES ARE PROTECTED FROM MIGRATION OF SEDIMENT FROM THE DEVELOPMENT SITE
- CONSTRUCTION OF ALL SEDIMENT MANAGEMENT DEVICES SHALL BE COMPLETED AND EFFECTIVE PRIOR TO:
 - STRIPPING OF TOPSOIL AND GRASS
 - BULK EARTHWORKS TO THE SITE
- SERVICE INSTALLATION THE PROVIDED SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE STAGED TO SUIT CONSTRUCTION OPERATIONS.
- MINIMISE FLOWS ONTO EARTHWORKS AREAS BY PROVIDING CUT OFF DRAINS AT TOP OF BATTERS AND UPSTREAM OF CONSTRUCTION AREAS.
- PROVIDE SILT FENCES DOWNSTREAM OF ALL EARTHWORK AREAS TO CONTAIN SEDIMENT-LADEN RUNOFF FROM STORMWATER FLOWS.
- MAINTAIN ALL SEDIMENT AND EROSION CONTROL MEASURES FOR THE FULL PERIOD OF SITE DISTURBING ACTIVITIES AND UNTIL ALL EXPOSED SOIL AREAS ARE STABILISED AGAINST EROSION.
- WHERE THERE IS A HIGH PROBABILITY THAT SERIOUS OR MATERIAL ENVIRONMENTAL HARM MAY OCCUR AS A RESULT OF SEDIMENT LEAVING THE SITE, APPROPRIATE ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED SUCH AT ALL REASONABLE PRACTICABLE MEASURES ARE BEING TAKEN TO PREVENT OR MINIMISE SUCH HARM. ONLY THOSE WORKS NECESSARY TO MINIMISE OR PREVENT ENVIRONMENTAL HARM SHALL BE CONDUCTED ON-SITE PRIOR TO AMENDMENT OF THE EROSION AND SEDIMENT CONTROL PLAN.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED AND THE EROSION AND SEDIMENT CONTROL PLAN IS TO BE AMENDED IN THE EVENT THAT SITE CONDITIONS CHANGE SIGNIFICANTLY FROM THOSE CONSIDERED WITHIN THE EROSION AND SEDIMENT CONTROL PLAN.

CLEARING AND VEGETATION PROTECTION

- VEGETATION PROTECTION ORDERS ON THE SITE ARE TO BE OBSERVED AT ALL TIMES AND UNDERTAKEN IN ACCORDANCE WITH AN APPROVED VEGETATION MANAGEMENT PLAN WHERE REQUIRED.
- ALL REASONABLE AND PRACTICABLE EFFORTS MUST BE TAKEN TO MINIMISE DISTURBANCE OR REMOVAL OF TREES, SHRUBS AND GOOD GROUND COVER ON THE SITE PRIOR TO, AND DURING LAND-DISTURBING DEVELOPMENT.
- NO CLEARING CAN BE UNDERTAKEN UNLESS PRECEDED OR ACCOMPANIED BY INSTALLATION OF ADEQUATE RUNOFF AND SEDIMENT CONTROL MEASURES. MAINTAIN VEGETATION ON FOOTPATH WHERE PRACTICABLE.
- CLEARING IS TO BE STAGED TO SUIT CONSTRUCTION WHERE POSSIBLE TO MINIMISE EROSION POTENTIAL.
- PROTECTED VEGETATION (IF IDENTIFIED) IS TO BE CLEARLY MARKED/FENCED OFF TO ENSURE VEGETATION IS NOT DISTURBED DURING ANY STAGE OF THE PROPOSED WORKS.

SOIL MANAGEMENT

- SOIL THAT IS STOCKPILED MUST BE PROTECTED FROM WIND AND WATER EROSION.
- SEDIMENT-LADEN RUNOFF FROM STOCKPILES MUST BE CONTROLLED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- TOPSOIL AND SUBSOIL SHOULD BE STOCKPILED SEPARATELY.
- LOCATE STOCKPILES UPSTREAM OF EROSION AND SEDIMENT CONTROL MEASURES.
- STOCKPILES MUST NOT BE LOCATED WITHIN AN OVERLAND FLOW PATH OR ON A COUNCIL FOOTPATH.

EROSION & SEDIMENT CONTROL - CONSTRUCTION STAGES

1. PRESTART

ESC MEASURE - SILT FENCES, DIVERSION DRAINS & DUST CONTROL (CLEARING)

LIMIT DISTURBANCE TO EXISTING SURFACE WHERE POSSIBLE. DO NOT STRIP SURFACE OF EXISTING GROUND COVER UNTIL READY FOR EARTHWORKS. ERECT SILT FENCES ALONG ALL DOWNSTREAM PROPERTY BOUNDARIES & STRATEGIC AREAS WITHIN THE SITE. SILT FENCES TO BE CLEANED WHEN CAPACITY IS REDUCED BY 25%.

2. BULK EARTHWORKS

ESC MEASURE - SILT FENCES, DIVERSION DRAINS, SEDIMENT BASIN & DUST CONTROL (EARTHWORKS STOCKPILES)

PROTECT AGAINST WIND & WATER EROSION. PROVIDE SILT FENCE AROUND BASE AND COVER WHERE POSSIBLE. STOCKPILES NOT PERMITTED TO BE STORED WITHIN ROAD RESERVE.

3. CONSTRUCTION

ESC MEASURE - SILT FENCES, DIVERSION DRAINS, SEDIMENT BASIN, DUST CONTROL, GULLY PIT PROTECTION, ROAD SWEEPING & LITTER CONTROL

PROVIDE SEDIMENT & EROSION CONTROL AS SOON AS EARTHWORKS HAVE COMMENCED AND STAGE TO SUIT CONSTRUCTION. PROVIDE DIVERSION DRAINS AT TOP OF BATTERS TO MINIMISE FLOWS ONTO EARTHWORKS AREAS. PROVIDE ROCK CHECK DAM TO OUTLETS OF DIVERSION DRAINS. ERECT SILT FENCES ALONG ALL PROPERTY BOUNDARIES. PROVIDE TEMPORARY CONSTRUCTION EXIT AT ALL TRUCK EXITS FROM SITE. ENSURE WETTING OF DUST PRODUCING AREAS & SWEEPING OF ROADS ADJACENT TO THE SITE TO REMOVE SILT/DUST. PROVIDE BIN OR LITTER TRAP FOR WASTE MATERIAL. CONCRETE RUN-OFF FROM WASH-DOWN OF EXPOSED AGGREGATE AREAS TO BE PREVENTED FROM DISCHARGING INTO STORMWATER DRAINS.

PIPE LAYING - PLACE EXCAVATED MATERIAL ON HIGH SIDE OF TRENCH. STOCKPILE TOPSOIL & SUBSOIL SEPARATELY. TRENCHES TO BE BACKFILLED, CAPPED WITH TOPSOIL & COMPACT TO MIN 100mm ABOVE ADJACENT GROUND LEVEL.

4. MAINTENANCE PERIOD

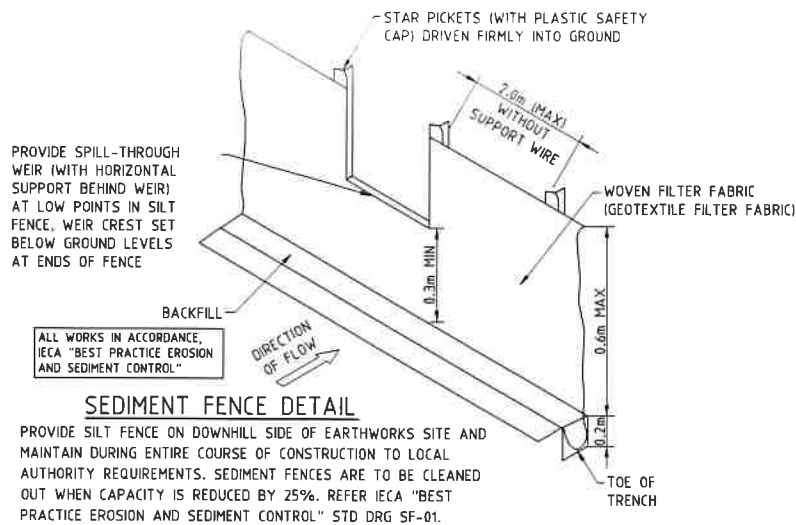
ESC MEASURE - SILT FENCES, GROUND COVER, DUST CONTROL, TURF FILTER STRIPS & ROAD SWEEPING

SILT FENCE TO REMAIN IN PLACE FOR MAINTENANCE PERIOD OR UNTIL GRASSING, TURFING AND LANDSCAPING ESTABLISHED.

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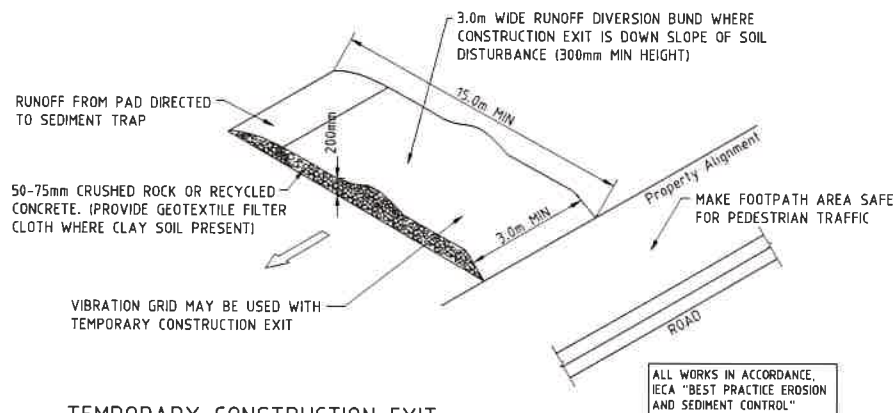
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24.08.20	P1	PRELIMINARY ISSUE	NT				



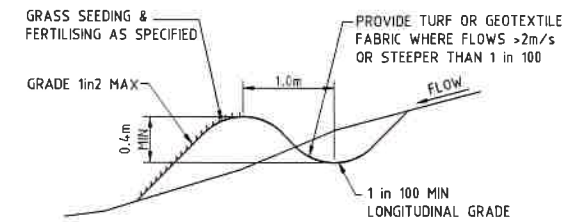
SEDIMENT FENCE DETAIL

PROVIDE SILT FENCE ON DOWNHILL SIDE OF EARTHWORKS SITE AND MAINTAIN DURING ENTIRE COURSE OF CONSTRUCTION TO LOCAL AUTHORITY REQUIREMENTS. SEDIMENT FENCES ARE TO BE CLEANED OUT WHEN CAPACITY IS REDUCED BY 25%. REFER IECA "BEST PRACTICE EROSION AND SEDIMENT CONTROL" STD DRG SF-01.



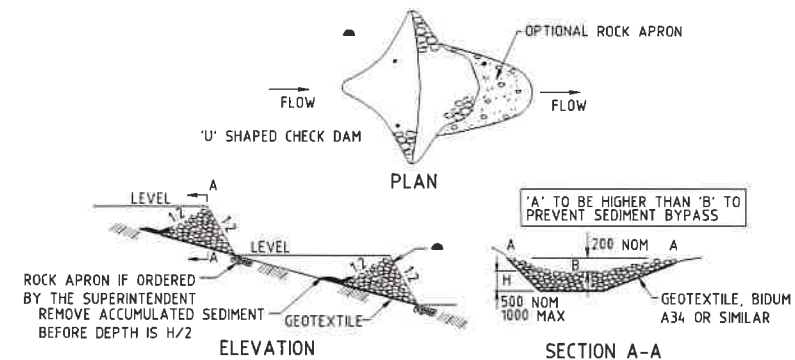
TEMPORARY CONSTRUCTION EXIT

- THIS COMPRISES A PAD OF COURSE GRAVEL, OCCASIONALLY WITH A CONCRETE, STEEL OR TIMBER SHAKER RAMP, LOCATED AT EXITS FROM CONSTRUCTION SITES. IT IS DESIGNED TO MINIMISE THE TRANSPORT OF SEDIMENT FROM CONSTRUCTION SITES ONTO PUBLIC ROADS VIA THE WHEELS AND SIDES OF VEHICLES.
- WHEN A SITE IS DRY, MUCH OF THE SOIL IS SHAKEN FROM THE VEHICLES AS THEY TRAVERSE THIS RAMP. IN WET WEATHER, MUD IS HOSED OFF ON THE RAMP AS VEHICLES LEAVE THE SITE.
- WHERE THE EXIT SLOPES TOWARDS THE ROAD, A BUND (HUMP) SHOULD BE INSTALLED ACROSS THE AGGREGATE PAD TO DEFLECT STORMWATER RUN-OFF TO THE SIDE WHERE IT CAN BE FILTERED BY A SEDIMENT FENCE.
- ADDITIONAL GRAVEL MAY HAVE TO BE ADDED PERIODICALLY, TO MAINTAIN THE CORRECT FUNCTIONING OF THE PAD.
- REFER IECA "BEST PRACTICE EROSION AND SEDIMENT CONTROL" STD DRG EXIT-01.



DIVERSION DRAIN

NTS
(REQUIRED WHERE UPSTREAM CATCHMENT AREA GREATER THAN 0.5ha) DO NOT DIVERT ONTO NEIGHBOURING PROPERTIES



CHECK DAM DETAIL

NTS
REFER IPWEAQ STD DRG D-0041 FOR DETAILS

ICC REF: 9690/2017/MCU

CIVIL SITEWORKS
ESC MANAGEMENT NOTES
AND DETAILS

RPEQ No. 6249 MATTHEW MENDEL
FOR AND ON BEHALF OF
DEQ CONSULTING ENGINEERS

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PROPOSED CATHOLIC PRIMARY SCHOOL
67-87 HALLETTS RD, REDBANK PLAINS
STAGE 2

BRISBANE CATHOLIC EDUCATION
GIBSON ARCHITECTS

PROPOSED CATHOLIC PRIMARY SCHOOL

67-87 HALLETTS ROAD

REDBANK PLAINS

STAGE 2

COORDINATION NOTES

1. REFER ARCHITECT'S DRAWINGS FOR BUILDING AND CARPARK SETOUT.
2. REFER HYDRAULICS CONSULTANT'S DRAWINGS FOR DOWNPIPE CONNECTIONS AND INTERNAL SEWER RETICULATION.
3. REFER ELECTRICAL CONSULTANT'S DRAWINGS FOR ELECTRICAL RETICULATION LAYOUT.
4. REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR LANDSCAPE AND SOIL STABILISATION DETAILS.
5. CONTRACTOR TO CONDUCT A DIAL BEFORE YOU DIG SEARCH PRIOR TO COMMENCEMENT OF WORKS ON SITE TO CONFIRM THE LOCATION OF ALL EXISTING SERVICES. ENGINEER TO BE CONTACTED OF ANY CONFLICTS FOR RESOLUTION.
6. COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS ARE AVAILABLE TO DOWNLOAD FOR FREE FROM THE COUNCIL WEBSITE. THE WATER AND SEWER SPECIFICATIONS ARE AVAILABLE TO DOWNLOAD FOR FREE FROM THE SEQ CODE WEBSITE.

EARTHWORKS NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK. ALL EXISTING SERVICES AND STRUCTURES ARE TO BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE CONTRACT. ANY COSTS ASSOCIATED WITH REPAIRING DAMAGE TO EXISTING SERVICES SHALL BE PAID FOR BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY BENCH MARK LEVELS AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCY BEFORE COMMENCEMENT OF CONSTRUCTION.
3. ALL LEVELS ARE TO AND (UNO) REFER SURVEYOR'S LEVEL DATUM.
4. THE SITE OF THE PROPOSED WORKS SHALL BE CLEARED OF ALL UNDESIRABLE MATTER. THIS SHALL INCLUDE DEAD TIMBER, GRASS, OLD FOUNDATIONS, CONCRETE, REDUNDANT MASONRY REMAINS, GARBAGE, DEBRIS AND ALL OTHER OBSTRUCTIONS TO THE WORKS. HOLES LEFT BY THE REMOVAL OF ANY OF THE ABOVE SHALL BE FILLED WITH APPROVED COMPACTED MATERIAL WITH PROPERTIES AT LEAST SIMILAR TO THE INSITU SOILS. CLEARED MATERIAL AND EARTHWORKS SPOIL SHALL BE REMOVED FROM SITE.
5. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY ALL EARTHWORKS AND CLEARING OPERATIONS.
7. SITE EARTHWORKS GENERALLY, SHALL BE CARRIED OUT IN ACCORDANCE WITH **AS3798-2007 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS, UNO**.
8. IF DURING EARTHWORKS OPERATIONS UNSUITABLE MATERIAL IS ENCOUNTERED, AS DEFINED IN SECTION 4 OF **AS3798-2007**, THEN PRIOR TO ANY FILLING OPERATION THIS MATERIAL SHALL BE REMOVED AND REPLACED, AS DIRECTED BY THE SUPERINTENDENT, WITH AN APPROVED SUITABLE MATERIAL.
9. FILL MATERIAL SHALL BE COMPACTED TO THE FOLLOWING STANDARD, WHERE DRY DENSITY RATIO IS DETERMINED IN ACCORDANCE WITH **AS1289 USING STANDARD COMPACTION METHODS**:
 - 100% DRY DENSITY RATIO FOR ROAD SUBGRADE
 - 98% DRY DENSITY RATIO FOR COMMERCIAL BUILDING PADS
 - 95% DRY DENSITY RATIO FOR RESIDENTIAL BUILDING PADS
 - 95% DRY DENSITY RATIO FOR ALL AREAS OTHER THAN THE ROADWAY AND BUILDING PADS
10. THROUGHOUT THE EARTHWORKS OPERATION THE CONTRACTOR IS TO ENSURE THAT THE SITE IS SELF DRAINING, AND THAT WATER IS NOT ALLOWED TO COLLECT ON THE SUBGRADE. DAMAGE RESULTING FROM THE EXPOSURE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
11. EARTHWORKS COMPACTION TO BE MONITORED BY FIELD DENSITY TESTS CARRIED OUT IN ACCORDANCE WITH **REQUIREMENTS OF AS3798-2007**. GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS. ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH **AS3798-2007 APPENDIX B**, GEOTECHNICAL TESTING AUTHORITY, LEVEL 1 REQUIREMENTS INCLUDING RPEQ CERTIFICATION BY GITA.
12. ALL ACCESS ROADS TO AND FROM SITE TO BE MAINTAINED FREE OF ALL FILL MATERIAL AND CLEANED AS NECESSARY.
13. ALL ADJOINING PROPERTIES AND ROADS TO BE PROTECTED FROM STORMWATER PONDING OR NUISANCE RESULTING FROM EARTHWORKS OPERATIONS.
14. ALL VEHICLES EXITING THE SITE ARE TO BE CLEANED AND TREATED TO PREVENT ANY MATERIAL BEING TRACKED OR DEPOSITED ON PUBLIC ROADS. REFER EROSION AND SEDIMENT CONTROL PLAN FOR TRUCK SHAKER DETAIL.
15. ALL FILL MATERIAL PLACED ON THE SITE TO BE NATURAL EARTH AND ROCK, FREE OF CONTAMINANTS (REFER **SEC. 11 OF EPA 1994**). NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIALS. FILL MATERIAL IS TO COMPLY WITH **CLAUSE 4.3 OF AS3798-2007 GUIDELINES FOR EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS**.
16. BULK EARTHWORKS LEVELS AT BUILDING PLATFORMS BASED ON PRELIMINARY FOUNDATION DESIGNS. REVISED LEVELS TO SUIT FINAL DESIGN SHOULD BE CONFIRMED PRIOR TO FINAL TRIM OF BUILDING PLATFORMS.
17. ALL AREAS DISTURBED BY EARTHWORKS ARE TO BE STABILISED WITHIN 14 DAYS OF COMPLETION OF EARTHWORKS.
18. FIRE ANT INFESTATION AREA IS TO BE INVESTIGATED BY THE CONTRACTOR AND DISPOSAL IS TO BE INCLUDED IN EARTHWORKS SPOIL RATE WHERE THE DEVELOPMENT SITE IS IN A KNOWN FIRE ANT AREA. **UNDER SECTION 32 OF THE PLANT PROTECTION ACT 1989 (QUEENSLAND)**, THERE IS A LEGAL OBLIGATION TO INFORM THE QUEENSLAND GOVERNMENT DEPARTMENT OF PRIMARY INDUSTRIES (DPI) OF POSSIBLE FIRE ANT INFESTATIONS.
IT IS THE CONTRACTOR'S RESPONSIBILITY UNDER THIS CONTRACT TO ASSESS THE DEVELOPMENT SITE, AND REPORT ANY SUSPECT FIRE ANT ACTIVITY TO BOTH THE DPI AND THE CLIENT.
FOR INFORMATION AND REPORTING OF POSSIBLE FIRE ANT LOCATIONS, THE DPI CAN BE CONTACTED AT THE:
DPI CALL CENTRE ON 13 25 23
DPI WEB SITE: www.dpi.qld.gov.au
DELIBERATE AVOIDANCE OF NOTIFICATION OF THE DPI OF POSSIBLE FIRE ANT ACTIVITY COULD INCUR A MAXIMUM PENALTY OF \$75,000.00 FOR INDIVIDUALS, WITH HEAVIER PENALTIES FOR CORPORATIONS.



REAL PROPERTY DESCRIPTION
LOT 313 ON SP 111468
LOCAL AUTHORITY:
IPSWICH CITY COUNCIL

SITE PLAN
NOT TO SCALE
UBD MAP NO: 235
UBD GRID NO: F11

DRAWING REGISTER

DRG	DRAWING TITLE
C.01	DRAWING REGISTER AND NOTES
C.02	LAYOUT PLAN SHEET 1 OF 2
C.03	LAYOUT PLAN SHEET 2 OF 2
C.04	BULK EARTHWORKS PLAN SHEET 1 OF 2
C.05	BULK EARTHWORKS PLAN SHEET 2 OF 2
C.06	ESC MANAGEMENT PLAN
C.07	ESC MANAGEMENT NOTES AND DETAILS
C.08	CONSTRUCTION DETAILS

CONCRETE NOTES

1. ALL CONCRETE SUPPLY AND WORK SHALL MEET THE REQUIREMENTS OF **AS3600**.
2. CONCRETE STRENGTH GRADE SHALL BE S32. TENSILE STRENGTH SHALL BE 4.5 MPa AT 90 DAYS.
3. CONCRETE SLUMP SHALL BE 80 mm +/- 15 mm (AT POINT OF DISCHARGE).
4. NO ADMIXTURES TO THE CONCRETE SHALL BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT.
5. COMPLIANCE OF CONCRETE SUPPLY AND TESTING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 20, AS3600.
6. CONCRETE SURFACE SHALL BE BROOM FINISHED.
7. CONCRETE SHALL NOT BE PLACED WHEN HOT DRY WIND CONDITIONS PREVAIL.
8. CONCRETE PLACED IN TEMPERATURES ABOVE 25°C SHALL IMMEDIATELY AFTER PLACEMENT BE COATED WITH AN EVAPORATION RETARDANT AND/OR CURING OIL AS APPROVED.
9. CONCRETE PAVEMENTS SHALL BE JOINTED AS DETAILED ON THE DRAWINGS. ALL SHRINKAGE CRACK CONTROL JOINTS SHALL BE SAWN WITHIN 10 HOURS OF CONCRETE PLACEMENT. ALL JOINTS SHALL BE SEALED WITH BITUMEN IMPREGNATED CORK OR APPROVED EQUIVALENT INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
10. CONCRETE SHALL BE FULLY COMPACTED BEFORE SCREEDING, WITH PARTICULAR CARE TAKEN AT EACH EXPANSION JOINT.
11. JOINT PREPARATION - BEFORE FRESH CONCRETE IS PLACED AT A CONSTRUCTION JOINT, ROUGHEN AND CLEAN THE HARDENED CONCRETE SURFACE OF THE JOINT SO THAT ALL LOOSE OR SOFT AND FOREIGN MATTER IS REMOVED. ALL JOINTS HOWEVER MADE SHALL BE PROVIDED WITH A GROOVE TO ACCOMMODATE SEALING MATERIAL.
12. DIMENSIONAL TOLERANCES:
 - LENGTH OF SLAB (UP TO 18m) +/- 6 mm
 - WIDTH SLAB +/- 6 mm
 - THICKNESS SLAB +/- 3 mm
13. CURING. DURING THE CURING PERIOD, MAINTAIN THE CONCRETE AT A REASONABLY CONSTANT TEMPERATURE, NOT EXCESSIVELY HOT OR COLD, TO MINIMISE MOISTURE LOSS, BY A SUITABLE METHOD WHICH MAY INCLUDE:
 - PONDING OR CONTINUOUS SPRINKLING WITH WATER (MOIST CURING)
 - AN IMPERMEABLE CLEAR MEMBRANE, TAPED AT JOINTS AND SEALED AT THE EDGES
 - AN ABSORPTIVE COVER KEPT CONTINUOUSLY WET
 - AN APPROVED CURING COMPOUND (SUBMIT DETAILS FOR APPROVAL PRIOR TO CONCRETING OPERATIONS TAKING PLACE), APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CURING PERIOD SHALL BE FOR NOT LESS THAN 7 DAYS.
14. THE GROUND SLABS HAVE BEEN DESIGNED WITH MINIMAL REINFORCEMENT TO CONTROL CONCRETE SHRINKAGE IN ORDER TO PROVIDE AN ECONOMIC SLAB. SOME SHRINKAGE CRACKING IN THE SLAB IS TO BE EXPECTED.
15. THE SLABS HAVE BEEN DESIGNED AS A FLOATING SLAB. HENCE, MOVEMENT IN THE SUBGRADE WILL RESULT IN VERTICAL & CURVATURE MOVEMENTS IN THE SLAB ALONG WITH SOME MINOR CRACKING. EXPECTED MOVEMENT TO BE IN THE RANGE OF +/- 4.0mm.
16. EXTERNAL CONCRETE SLABS HAVE BEEN DESIGNED TO ACCOMMODATE PNEUMATIC TYRED VEHICLES ONLY.

STORMWATER DRAINAGE NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR IS TO CHECK THAT THE PROPOSED PIPE WORKS DO NOT CLASH WITH THE IDENTIFIED EXISTING SERVICES PRIOR TO ANY TRENCH EXCAVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY CLASHES ARE FOUND FOR ADVICE OF ANY REDESIGN REQUIREMENTS.
2. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH **CURRENT COUNCIL STANDARD SPECIFICATIONS AND DRAWINGS**, UNLESS NOTED OTHERWISE.
3. ALL uPVC STORMWATER PIPES SHALL BE CLASS SN6, RCP PIPES SHALL BE CLASS 2, FRC PIPES SHALL BE CLASS 1 UNLESS NOTED OTHERWISE.
4. ROOFWATER DRAINAGE TO CONNECT INTO PITS AS REQUIRED. FOR ROOFWATER DRAINAGE DETAILS REFER HYDRAULICS CONSULTANT'S DRAWINGS.
5. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
6. PROVIDE 'AS CONSTRUCTED' SURVEY OF ALL STORMWATER DRAINAGE INFRASTRUCTURE.

NOTE:
IPSWICH CITY COUNCIL STANDARD DRAWINGS ARE AVAILABLE FROM THIS LINK:
<https://www.ipswichplanning.com.au/planning-documents/standard-drawings>
IPSWICH CITY COUNCIL SPECIFICATIONS ARE AVAILABLE FROM THIS LINK:
https://www.ipswichplanning.com.au/_data/assets/pdf_file/0019/1963/ips_plan_scheme_policy_3_general_works.pdf



NOTE: LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A DIAL BEFORE YOU DIG SEARCH PRIOR TO COMMENCEMENT OF WORKS. ANY POTENTIAL CONFLICT OF EXISTING SERVICES SHALL BE REPORTED TO THE SUPERINTENDENT.

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL STAMPED **APPROVED** BY RELEVANT AUTHORITY. ALL WORKS ARE TO BE CONSTRUCTED TO THE SATISFACTION OF RELEVANT AUTHORITIES. THE CONTRACTOR IS RESPONSIBLE FOR ORGANISING NECESSARY PERMITS, AUTHORISATION AND SUBSEQUENT INSPECTIONS AS REQUIRED BY RELEVANT AUTHORITIES.

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08.10.20	A	TENDER ISSUE	NT				
01.10.20	P3	FURTHER CO-ORDINATION ISSUE	NT				
25.09.20	P2	CO-ORDINATION ISSUE	NT				
24.08.20	P1	PRELIMINARY ISSUE	NT				

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PROPOSED CATHOLIC PRIMARY SCHOOL
67-87 HALLETTS RD, REDBANK PLAINS
STAGE 2

BRISBANE CATHOLIC EDUCATION
GIBSON ARCHITECTS

ICC REF: 9690/2017/MCU

CIVIL SITEWORKS
DRAWING REGISTER AND NOTES

RPEQ No. 6249 MATTHEW MENDEL
FOR AND ON BEHALF OF
DEQ CONSULTING ENGINEERS

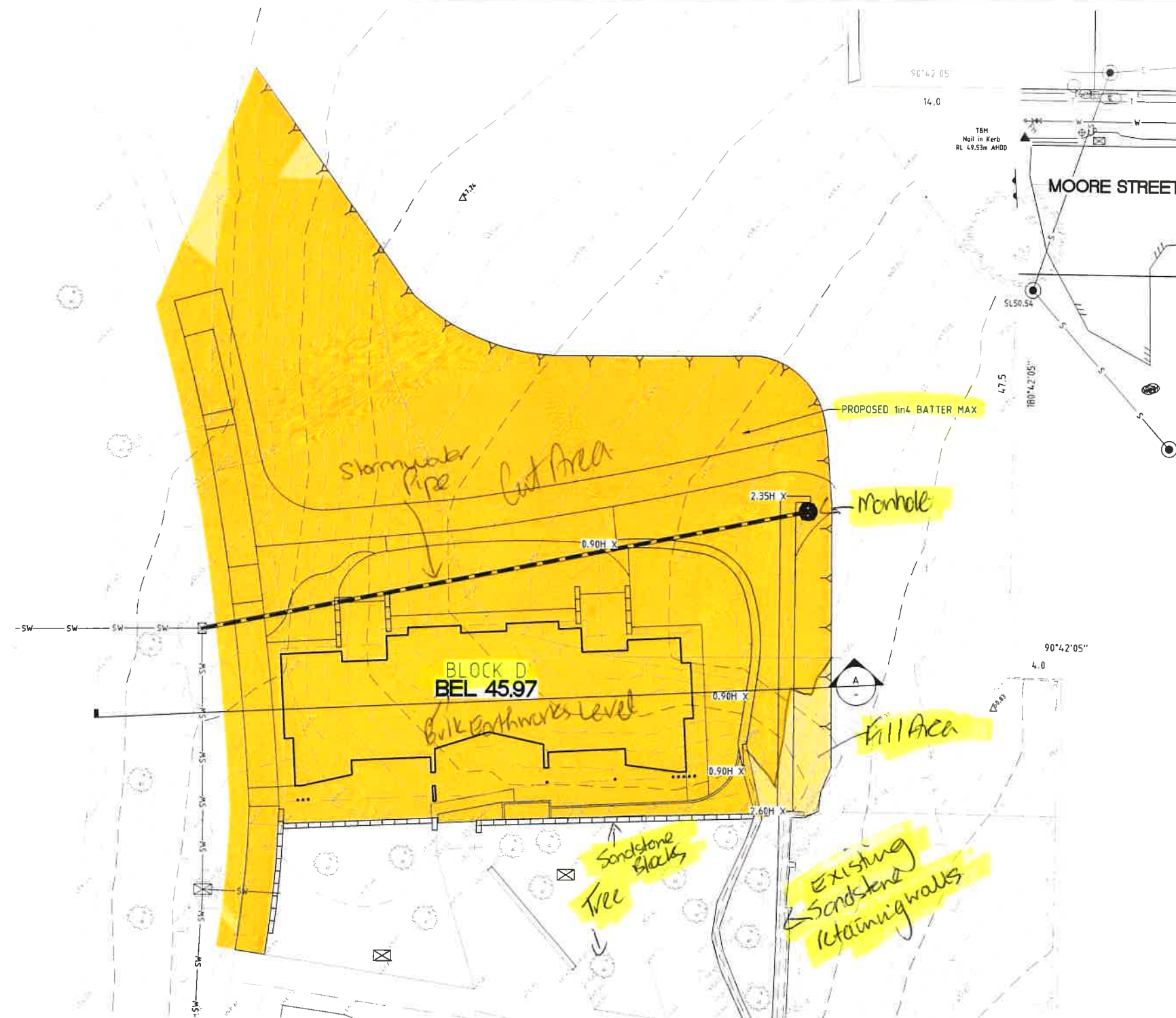
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CONTACT: NT		SHEET 1	OF 8
20.2137		C.01	A
JOB No.		DRG. No.	AMMT.
CHECKED		DATUM	: AHD

REFER EARTHWORKS NOTES ON DRAWING C.01

ALL EARTHWORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH SOIL SURVEYS GEOTECHNICAL INVESTIGATION PROJECT NO 1-22167 REVISION 2 ISSUE DATE 30.07.2020

LEGEND-BULK EARTHWORKS PLAN

- PROPOSED BULK EARTHWORKS LEVEL
- EXISTING CONTOUR
- EXISTING SPOT LEVEL
- PROPOSED CUT AREA
- PROPOSED FILL AREA
- PROPOSED RETAINING WALL
- PROPOSED RETAINING WALL HEIGHT



MOORE STREET

PROPOSED 1in4 BATTER MAX

Monhole

BLOCK D
BEL 45.97

Fill Area

Sandstone
Blocks

Tree

Existing
Sandstone
Retaining Walls

EXISTING SURFACE

NEW SANDSTONE RETAINING WALL DESIGNED & CERTIFIED BY OTHERS. REFER TO ARCHITECT FOR EXTENT & HEIGHT

TEMPORARY CONSTRUCTION BATTERS. REFER GEOTECHNICAL ENGINEER REPORT

BLOCK D
BEL 45.97

PROPOSED EARTHWORKS PROFILE

SECTION A

REFER C.10 AND C.11 FOR CONTINUATION

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Civil, Structural and Soil Testing
DEQ Consulting Pty Ltd t/a DEQ 53 965 371 248

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CIVIL SITEWORKS

BULK EARTHWORKS PLAN
SHEET 2 OF 2

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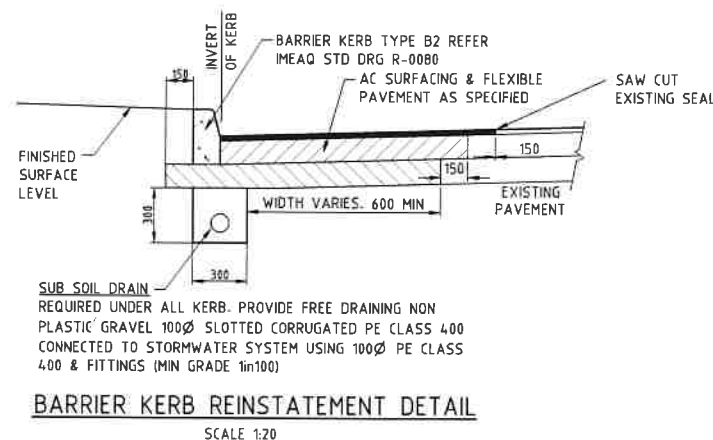
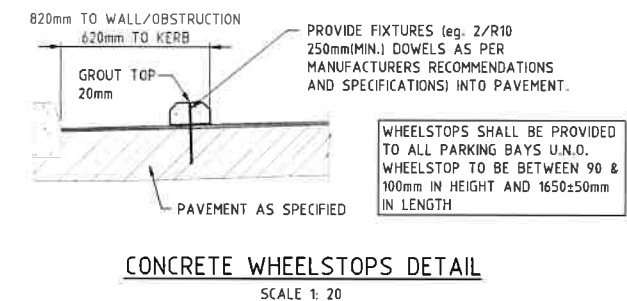
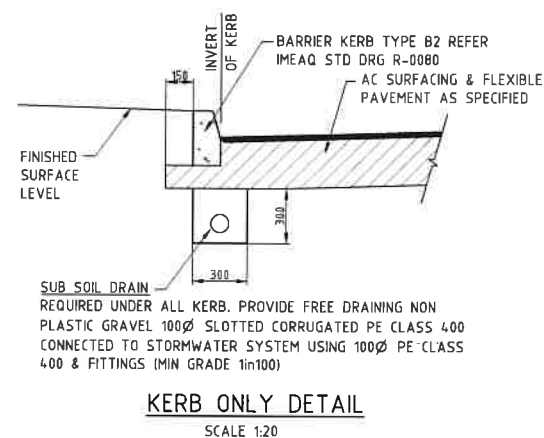
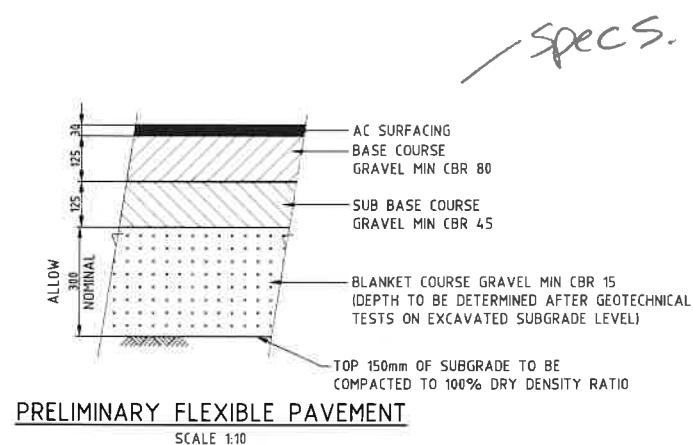
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JOB No.	DRG. No.
CHECKED	DATUM: AHD

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SCALE 1:100
SCALE BEFORE REDUCTION
0 2 4 6 8 10m
SCALE 1:200
SCALE BEFORE REDUCTION

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0 0.1 0.2 0.3 0.4 0.5m
SCALE 1:10
SCALE BEFORE REDUCTION

0 0.2 0.4 0.6 0.8 1.0m
SCALE 1:20
SCALE BEFORE REDUCTION

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CONSTRUCTION DETAILS

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JOB No.	20.2137	DRG. No.	C.08
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