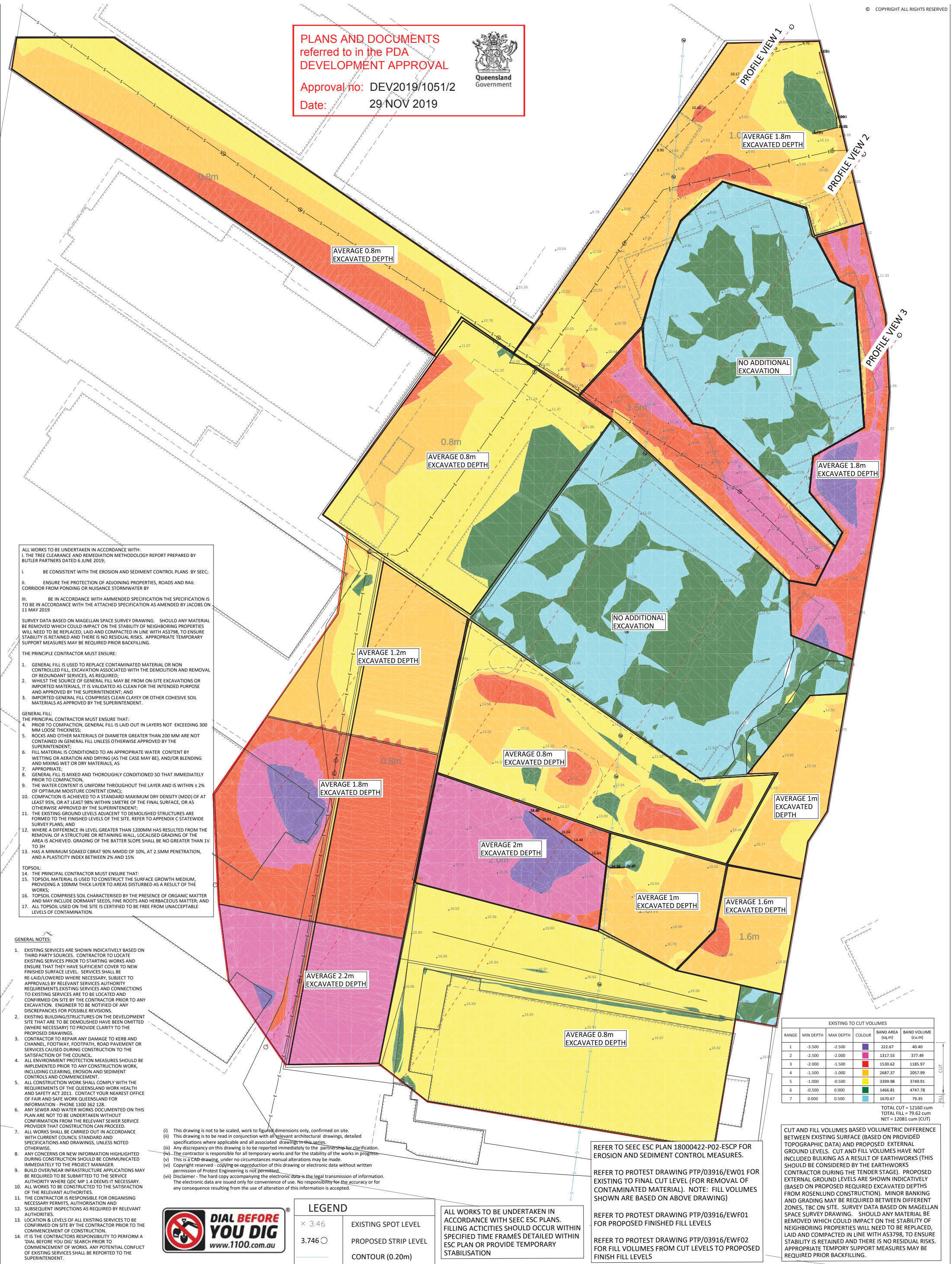


PLANS AND DOCUMENTS
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DEVELOPMENT APPROVAL

Approval no: DEV2019/1051/2
Date: 29 NOV 2019


Queensland
Government



ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH:

1. THE TREE CLEARANCE AND REMEDIATION METHODOLOGY REPORT PREPARED BY BUTLER PARTNERS DATED 6 JUNE 2019;

I. BE CONSISTENT WITH THE EROSION AND SEDIMENT CONTROL PLANS BY SEEC;

II. ENSURE THE PROTECTION OF ADJOINING PROPERTIES, ROADS AND RAIL CORRIDOR FROM PONDING OR NUISANCE STORMWATER BY

III. BE IN ACCORDANCE WITH AMENDED SPECIFICATION THE SPECIFICATION IS TO BE IN ACCORDANCE WITH THE ATTACHED SPECIFICATION AS AMENDED BY JACOBS ON 11 MAY 2019

SURVEY DATA BASED ON MAGELLAN SPACE SURVEY DRAWING. SHOULD ANY MATERIAL BE REMOVED WHICH COULD IMPACT ON THE STABILITY OF NEIGHBORING PROPERTIES WILL NEED TO BE REPLACED, LAID AND COMPACTED IN LINE WITH AS3798, TO ENSURE STABILITY IS RETAINED AND THERE IS NO RESIDUAL RISKS. APPROPRIATE TEMPORARY SUPPORT MEASURES MAY BE REQUIRED PRIOR BACKFILLING.

THE PRINCIPLE CONTRACTOR MUST ENSURE:

1. GENERAL FILL IS USED TO REPLACE CONTAMINATED MATERIAL OR NON CONTROLLED FILL, EXCAVATION ASSOCIATED WITH THE DEMOLITION AND REMOVAL OF REDUNDANT SERVICES, AS REQUIRED;
2. WHILST THE SOURCE OF GENERAL FILL MAY BE FROM ON-SITE EXCAVATIONS OR IMPORTED MATERIALS, IT IS VALIDATED AS CLEAN FOR THE INTENDED PURPOSE AND APPROVED BY THE SUPERINTENDENT; AND
3. IMPORTED GENERAL FILL COMPRISES CLEAN CLAYEY OR OTHER COHESIVE SOIL MATERIALS AS APPROVED BY THE SUPERINTENDENT.

GENERAL FILL:

THE PRINCIPAL CONTRACTOR MUST ENSURE THAT:

4. PRIOR TO COMPACTION, GENERAL FILL IS LAID OUT IN LAYERS NOT EXCEEDING 300 MM LOOSE THICKNESS;
5. ROCKS AND OTHER MATERIALS OF DIAMETER GREATER THAN 200 MM ARE NOT CONTAINED IN GENERAL FILL UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT;
6. FILL MATERIAL IS CONDITIONED TO AN APPROPRIATE WATER CONTENT BY WETTING OR AERATION AND DRYING (AS THE CASE MAY BE), AND/OR BLENDING AND MIXING WET OR DRY MATERIALS, AS
7. APPROPRIATE;
8. GENERAL FILL IS MIXED AND THOROUGHLY CONDITIONED SO THAT IMMEDIATELY PRIOR TO COMPACTION,
9. THE WATER CONTENT IS UNIFORM THROUGHOUT THE LAYER AND IS WITHIN ± 2% OF OPTIMUM MOISTURE CONTENT (OMC);
10. COMPACTION IS ACHIEVED TO A STANDARD MAXIMUM DRY DENSITY (MDD) OF AT LEAST 95%, OR AT LEAST 98% WITHIN 1METRE OF THE FINAL SURFACE, OR AS OTHERWISE APPROVED BY THE SUPERINTENDENT;
11. THE EXISTING GROUND LEVELS ADJACENT TO DEMOLISHED STRUCTURES ARE FORMED TO THE FINISHED LEVELS OF THE SITE. REFER TO APPENDIX C STATEWIDE SURVEY PLANS; AND
12. WHERE A DIFFERENCE IN LEVEL GREATER THAN 1200MM HAS RESULTED FROM THE REMOVAL OF A STRUCTURE OR RETAINING WALL, LOCALISED GRADING OF THE AREA IS ACHIEVED. GRADING OF THE BATTER SLOPE SHALL BE NO GREATER THAN 1V TO 3H
13. HAS A MINIMUM SOAKED CBAT 90% MMD OF 10%, AT 2.5MM PENETRATION, AND A PLASTICITY INDEX BETWEEN 2% AND 15%

TOPSOIL:

14. THE PRINCIPAL CONTRACTOR MUST ENSURE THAT:
15. TOPSOIL MATERIAL IS USED TO CONSTRUCT THE SURFACE GROWTH MEDIUM, PROVIDING A 100MM THICK LAYER TO AREAS DISTURBED AS A RESULT OF THE WORKS;
16. TOPSOIL COMPRISES SOIL CHARACTERISED BY THE PRESENCE OF ORGANIC MATTER AND MAY INCLUDE DORMANT SEEDS, FINE ROOTS AND HERBACEOUS MATTER; AND
17. ALL TOPSOIL USED ON THE SITE IS CERTIFIED TO BE FREE FROM UNACCEPTABLE LEVELS OF CONTAMINATION.

GENERAL NOTES:

1. EXISTING SERVICES ARE SHOWN INDICATIVELY BASED ON THIRD PARTY SOURCES. CONTRACTOR TO LOCATE EXISTING SERVICES PRIOR TO STARTING WORKS AND ENSURE THAT THEY HAVE SUFFICIENT COVER TO NEW FINISHED SURFACE LEVEL. SERVICES SHALL BE RE-LAID/LOWERED WHERE NECESSARY, SUBJECT TO APPROVALS BY RELEVANT SERVICES AUTHORITY REQUIREMENTS. EXISTING SERVICES AND CONNECTIONS TO EXISTING SERVICES ARE TO BE LOCATED AND CONFIRMED ON SITE BY THE CONTRACTOR PRIOR TO ANY EXCAVATION. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES FOR POSSIBLE REVISIONS.
2. EXISTING BUILDING/STRUCTURES ON THE DEVELOPMENT SITE THAT ARE TO BE DEMOLISHED HAVE BEEN OMITTED (WHERE NECESSARY) TO PROVIDE CLARITY TO THE PROPOSED DRAWINGS.
3. CONTRACTOR TO REPAIR ANY DAMAGE TO KERB AND CHANNEL, FOOTWAY, FOOTPATH, ROAD PAVEMENT OR SERVICES CAUSED DURING CONSTRUCTION TO THE SATISFACTION OF THE COUNCIL.
4. ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, EROSION AND SEDIMENT CONTROLS AND COMMENCEMENT.
5. ALL CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT YOUR NEAREST OFFICE OF FAIR AND SAFE WORK QUEENSLAND FOR INFORMATION - PHONE 1300 362 128.
6. ANY SEWER AND WATER WORKS DOCUMENTED ON THIS PLAN ARE NOT TO BE UNDERTAKEN WITHOUT CONFIRMATION FROM THE RELEVANT SEWER SERVICE PROVIDER THAT CONSTRUCTION CAN PROCEED.
7. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CURRENT COUNCIL STANDARD AND SPECIFICATIONS AND DRAWINGS, UNLESS NOTED OTHERWISE.
8. ANY CONCERNS OR NEW INFORMATION HIGHLIGHTED DURING CONSTRUCTION SHOULD BE COMMUNICATED IMMEDIATELY TO THE PROJECT MANAGER.
9. BUILD OVER/NEAR INFRASTRUCTURE APPLICATIONS MAY BE REQUIRED TO BE SUBMITTED TO THE SERVICE AUTHORITY WHERE QDC MP 1.4 DEEMS IT NECESSARY. ALL WORKS TO BE CONSTRUCTED TO THE SATISFACTION OF THE RELEVANT AUTHORITIES.
10. THE CONTRACTOR IS RESPONSIBLE FOR ORGANISING NECESSARY PERMITS, AUTHORISATION AND SUBSEQUENT INSPECTIONS AS REQUIRED BY RELEVANT AUTHORITIES.
11. LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
12. IT IS THE CONTRACTORS 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.



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LEGEND

× 3.46	EXISTING SPOT LEVEL
3.746 ○	PROPOSED STRIP LEVEL
—	CONTOUR (0.20m)

ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH SEEC ESC PLANS. FILLING ACTIVITIES SHOULD OCCUR WITHIN SPECIFIED TIME FRAMES DETAILED WITHIN ESC PLAN OR PROVIDE TEMPORARY STABILISATION

REFER TO SEEC ESC PLAN 18000422-P02-ESCP FOR EROSION AND SEDIMENT CONTROL MEASURES.

REFER TO PROTEST DRAWING PTP/03916/EW01 FOR EXISTING TO FINAL CUT LEVEL (FOR REMOVAL OF CONTAMINATED MATERIAL). NOTE: FILL VOLUMES SHOWN ARE BASED ON ABOVE DRAWING)

REFER TO PROTEST DRAWING PTP/03916/EWF01 FOR PROPOSED FINISHED FILL LEVELS

REFER TO PROTEST DRAWING PTP/03916/EWF02 FOR FILL VOLUMES FROM CUT LEVELS TO PROPOSED FINISH FILL LEVELS

EXISTING TO CUT VOLUMES					
RANGE	MIN DEPTH	MAX DEPTH	COLOUR	BAND AREA (sq.m)	BAND VOLUME (cu.m)
1	-3.500	-2.500		222.67	40.40
2	-2.500	-2.000		1317.53	377.49
3	-2.000	-1.500		1530.62	1185.97
4	-1.500	-1.000		2687.37	2057.99
5	-1.000	-0.500		3399.98	3749.91
6	-0.500	0.000		1466.81	4747.78
7	0.000	0.500		1670.67	79.35

TOTAL CUT = 12160 cum
TOTAL FILL = 79.62 cum
NET = 12081 cum (CUT)

CUT AND FILL VOLUMES BASED VOLUMETRIC DIFFERENCE BETWEEN EXISTING SURFACE (BASED ON PROVIDED TOPOGRAPHIC DATA) AND PROPOSED EXTERNAL GROUND LEVELS. CUT AND FILL VOLUMES HAVE NOT INCLUDED BULKING AS A RESULT OF EARTHWORKS (THIS SHOULD BE CONSIDERED BY THE EARTHWORKS CONTRACTOR DURING THE TENDER STAGE). PROPOSED EXTERNAL GROUND LEVELS ARE SHOWN INDICATIVELY (BASED ON PROPOSED REQUIRED EXCAVATED DEPTHS FROM ROSEN LUND CONSTRUCTION). MINOR BANKING AND GRADING MAY BE REQUIRED BETWEEN DIFFERENT ZONES, TBC ON SITE. SURVEY DATA BASED ON MAGELLAN SPACE SURVEY DRAWING. SHOULD ANY MATERIAL BE REMOVED WHICH COULD IMPACT ON THE STABILITY OF NEIGHBORING PROPERTIES WILL NEED TO BE REPLACED, LAID AND COMPACTED IN LINE WITH AS3798, TO ENSURE STABILITY IS RETAINED AND THERE IS NO RESIDUAL RISKS. APPROPRIATE TEMPORARY SUPPORT MEASURES MAY BE REQUIRED PRIOR BACKFILLING.



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LEVELS GRADED TO FORM SHALLOW BOWL TO
DETAIN ONSITE STORMWATER RUNOFF, AND
MITIGATE STORM WATER RUNOFF FROM
IMPACTING ON ADJOINING PROPERTIES.

WHERE BOUNDARY LEVELS ARE NOT
SHOW, TIE IN LEVELS HAVE BEEN BASED
ON SURVEY PLAN BY RPS REF
139204DET

DURING FILLING WORKS MAINTAIN
GRADIENTS TO THE NORTH DIRECTING
OVERLAND FLOWS TOWARDS THE
SEDIMENTATION BASIN (AS PER SEEC
ESC PLAN 18000422-P02-ESCP101)

EXISTING FIELD INLET GULLIES
(AND MAY NEED TO BE RAISED
TO SUIT FINAL LEVELS) TO BE
BLOCKED UP IF THERE IS A RISK
OF DIRTY WATER INGRESS IN
ACCORDANCE WITH SEEC ESC

PROPOSED CUT TO FILL VOLUMES					
RANGE	MIN DEPTH	MAX DEPTH	COLOUR	BAND AREA (sq.m)	BAND VOLUME (cu.m)
1	-1.000	0.000		1216.80	136.80
2	0.000	1.000		5913.38	8382.54
3	1.000	2.000		3810.08	3020.30
4	2.000	3.000		1332.14	383.70
5	3.000	4.000		17.56	1.45

CUT AND FILL VOLUMES BASED VOLUMETRIC DIFFERENCE BETWEEN
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NOT INCLUDED BULKING AS A RESULT OF EARTHWORKS (THIS SHOULD
BE CONSIDERED BY THE EARTHWORKS CONTRACTOR DURING THE
TENDER STAGE). PROPOSED EXTERNAL GROUND LEVELS HAVE BEEN
DESIGNED TO NOT CHANGE EXTERNAL LEVELS BY MORE THAN 900MM
(BASED POST DEMOLITION SURVEY).

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I. THE TREE CLEARANCE AND REMEDIATION METHODOLOGY REPORT
PREPARED BY BUTLER PARTNERS DATED 6 JUNE 2019;

II. BE CONSISTENT WITH THE EROSION AND SEDIMENT
CONTROL PLANS BY SEEC;

III. ENSURE THE FILLING AND EXCAVATION FINISH LEVELS
MATCH IN WITH THE EXISTING LEVELS OF THE SITE (BASED ON POST
DEMOLITION LEVELS) AND NOT EXCEED A LEVEL CHANGE OF +/-
900MM

IV. ENSURE THE PROTECTION OF ADJOINING PROPERTIES,
ROADS AND RAIL CORRIDOR FROM PONDING OR NUISANCE
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V. BE IN ACCORDANCE WITH AMMENDED SPECIFICATION THE
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 - ROCKS AND OTHER MATERIALS OF DIAMETER GREATER THAN 200
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FOR PROPOSED FINISHED FILL LEVELS

LEGEND

- × 3.46
3.746 ○
—
↩
- EXISTING (POST DEMOLITION) SPOT LEVEL
PROPOSED FINISHED FILL LEVEL
CONTOUR (0.50m)
PROPOSED OVERLAND FLOW DIRECTION



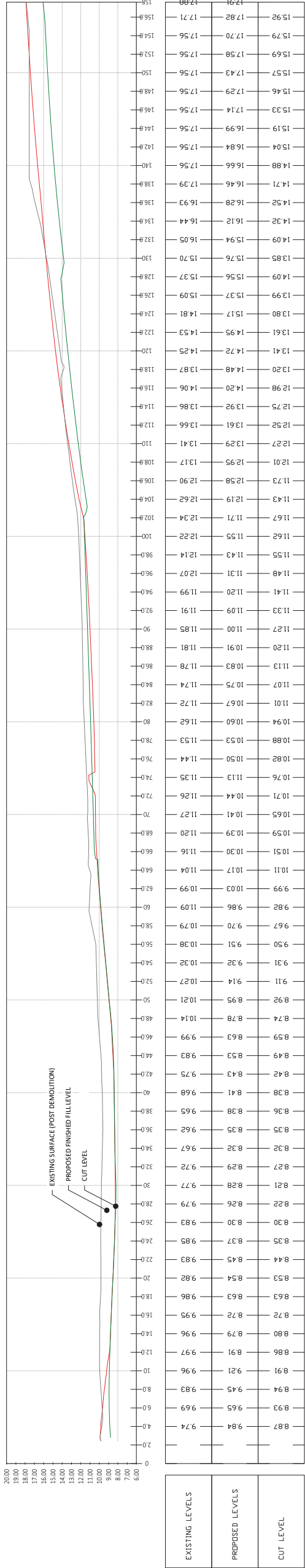
CLIENT: ROSENLUND
PROJECT: NEW DEVELOPMENT
DRAWING TITLE: PROPOSED FILL LEVELS
SITE ADDRESS: 70 PARK ROAD, YERONGA

APPROVED:
RYAN HOFMAN
BEng (Hons) CPEng CWEM RPEQ 21643
DESIGNED: RH
CHECKED: RH
JOB: PTP/03196
SHEET No. 01 OF 01

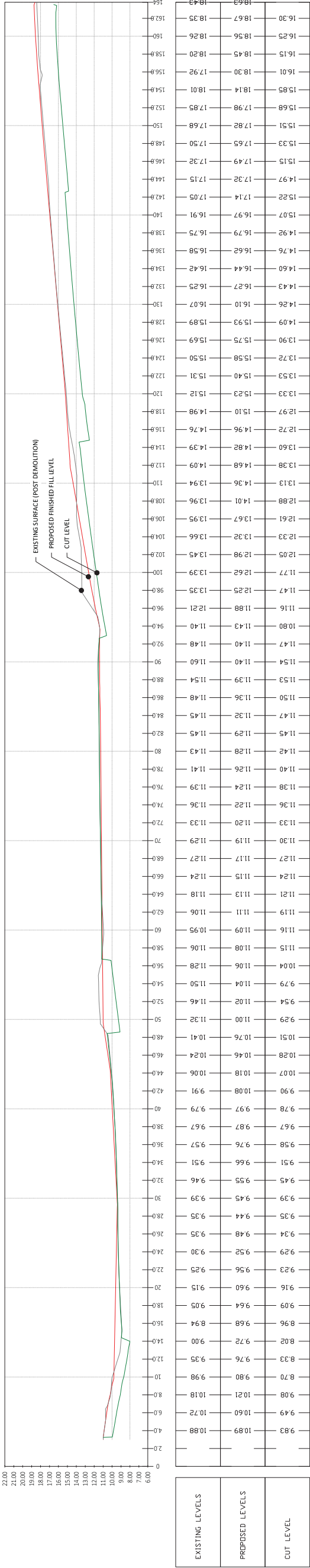
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STATUS: PLANNING APPLICATION
FOR INFORMATION ONLY
NOT FOR CONSTRUCTION
DRAWING SCALE AT A1: 1:100
ORNT:

REVISION: C

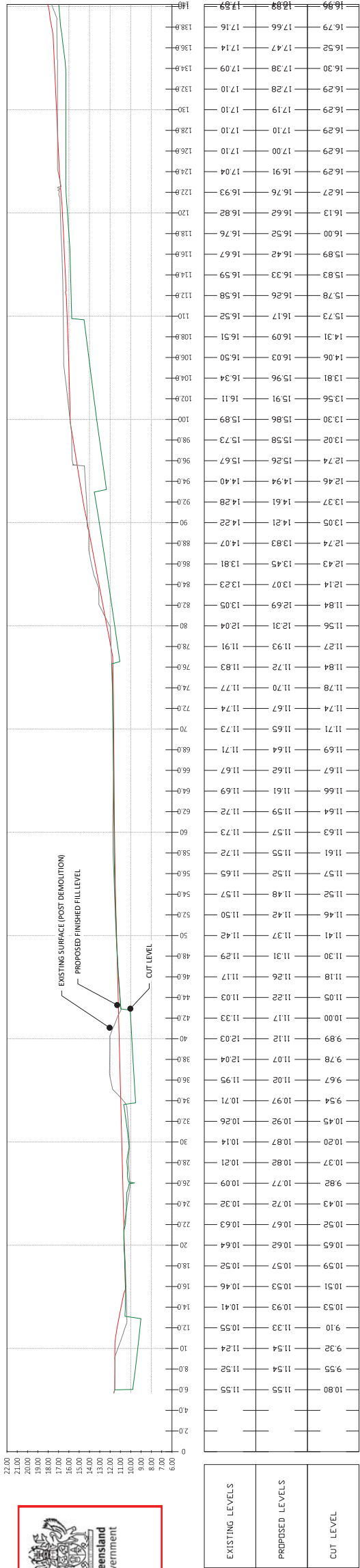
REV	DESCRIPTION	DATE	BY
C	UPDATE TO FINISHED LEVELS AND CUT FILL EXTENTS	20.11.19	RH
B	PROFILE VIEW LINES ADDED ON PLAN	21.10.19	RH
A	UPDATE TO FINISHED LEVELS	14.10.19	RH



PROFILE VIEW 1 PROPOSED LONGSECTION



PROFILE VIEW 2 PROPOSED LONGSECTION



PROFILE VIEW 3 PROPOSED LONGSECTION



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1051/2
Date: 29 NOV 2019

 PROTEST ENGINEERING Synergy // Efficiency // Productivity P 071 5588 0180 E info@protestengineering.com W www.protestengineering.com	CLIENT: ROSENILUND	APPROVED:	DRAWING NUMBER: PTP/03196/EFWF03	REVISION: B	(i) This drawing is not to be scaled, work to figured dimensions only, confirmed on site. (ii) This drawing is not to be scaled, work to figured dimensions only, confirmed on site. (iii) Any discrepancy on this drawing is to be reported immediately to the partnership for clarification. (iv) The contractor is responsible for all temporary works and for the stability of the works in progress. (v) This is a CAD drawing, under no circumstances should any alterations be made. (vi) Completion of this drawing or electronic data without written permission of Protest Engineering is not permitted. (vii) Disclaimer - The hard copy accompanying the electronic data is the legal transmission of information. (viii) The electronic data are issued only for convenience of use. No responsibility for the accuracy or for any consequence resulting from the use of alteration of this information is accepted.
	PROJECT: NEW DEVELOPMENT	STATUS: PLANNING APPLICATION	FOR INFORMATION ONLY NOT FOR CONSTRUCTION	ORIN	
	DRAWING TITLE: PROPOSED FILL LEVELS - SECTIONS	DESIGNED: RH	JOB: PTP/03196	DRAWING SCALE AT A1: 1:100	
	911 ADDRESS: 70 PARK ROAD, YERONGA	CHECKED: RH	SHEET No. 01 OF 01		