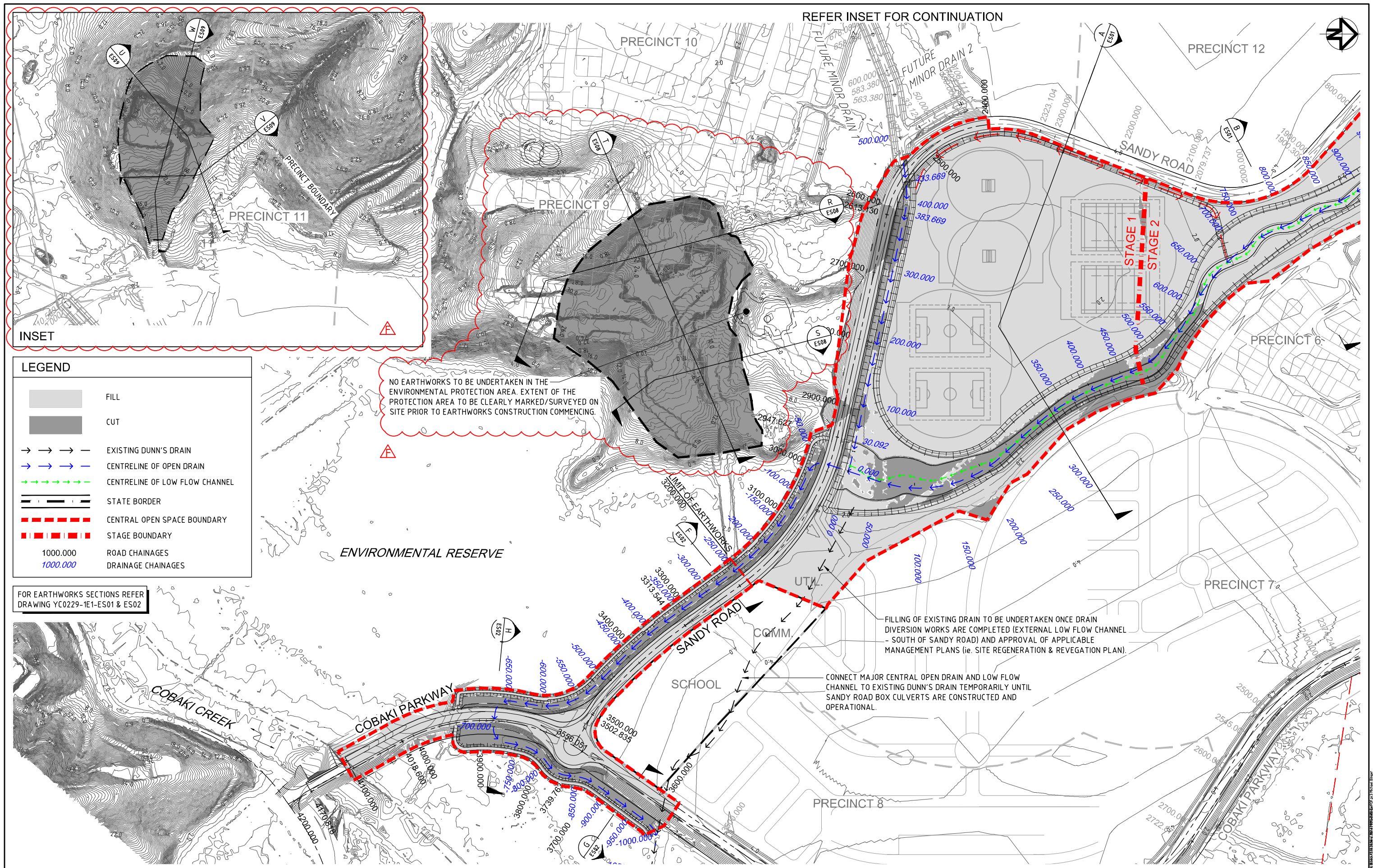




STATUS				CONSTRUCTION CERTIFICATE				FOR APPROVAL			
F	PRECINCT 9 AND PRECINCT 11 BORROW AREAS ADDED			M.B.	11.12.13			THIS DESIGN AND PLAN IS COPYRIGHT AND IS NOT TO BE USED OR REPRODUCED WHOLLY OR IN PART OR TO BE USED ON ANY PROJECT WITHOUT THE WRITTEN PERMISSION OF YEATS CONSULTING PTY LTD			
E	MINOR OPEN DRAIN 5 ADDED TO DRAWING SET			T.W.	02.10.13						
D	BULK EARTHWORKS CONSTRUCTION CERTIFICATE			M.G.	15.02.13						
C	RESPONSE TO 3rd PARTY SWMP REVIEW			H.W.	18.10.12						
B	RESPONSE TO TSC REQUEST FOR INFORMATION (RFI)			H.W.	04.05.12						
A	ORIGINAL ISSUE			G.S.	18.03.11			DRAWING IS NOT TO BE SCALED			
REV	DESCRIPTION			DRAWN	DATE						
				SCALE (AT ORIGINAL SHEET SIZE)				ORIGINAL SHEET SIZE			
				SCALE 1:2500							
				50 0 50 100				A1			
								LEDAMANORSTEAD Pty Ltd			
								COBAKI, TWEED HEADS WEST CENTRAL OPEN SPACE BULK EARTHWORKS CONSTRUCTION CERTIFICATE CIVIL ENGINEERING DRAWINGS			
								SEDGMANYEATS			
								LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA T 07 5558 4200 F 07 5503 1672 info@yeats.com.au www.yeats.com.au			
								TITLE BULK EARTHWORKS CUT & FILL PLAN SHEET 1 OF 2			
								TASK BY INITIAL DATE APPROVED RPEQ No 7817			
								REVIEW CS 18.03.11 DRAWING NUMBER REVISION			
								DESIGN CJE 18.03.11 YC0229-1E1-EC01 F			
								DRAWN GS 18.03.11			



LEGEND				
5.0	PROPOSED SURFACE CONTOURS			
	TOP/TOE OF BATTER			
	TEMPORARY SWALE			
	CUT (BORROW MATERIAL)			
	APPROX. VOLUME REQUIRED: 500,000m3			
	PRECINCT BOUNDARY			

CONSTRUCTION CERTIFICATE FOR APPROVAL			
A	ORIGINAL ISSUE	G.S.	11.12.13
REV	DESCRIPTION	DRAWN	DATE

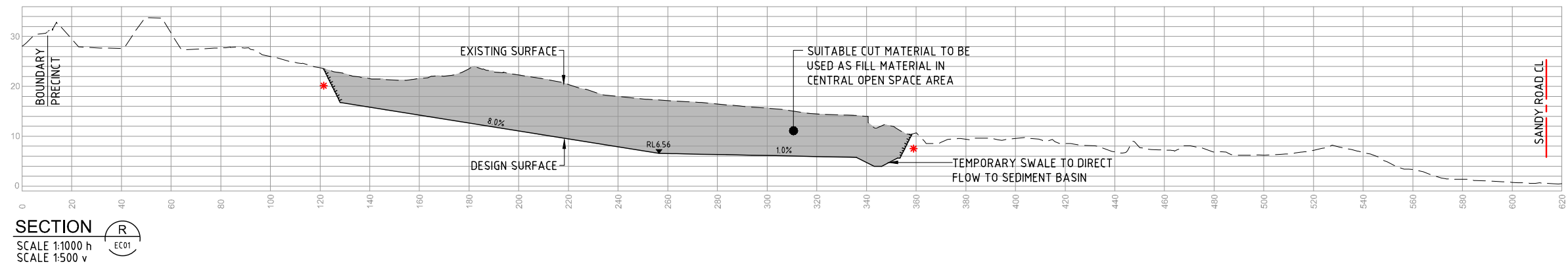
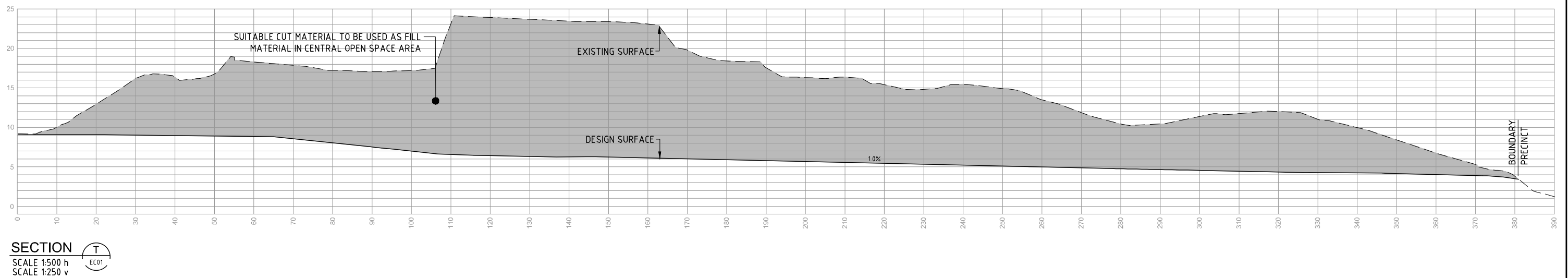
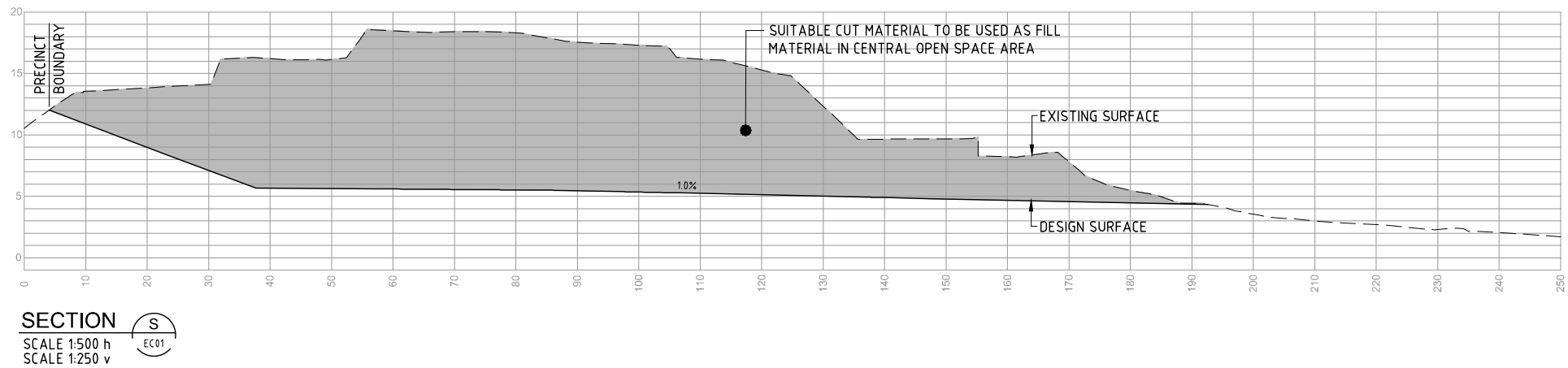
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DRAWING IS NOT TO BE SCALED	
SCALE	(AT ORIGINAL SHEET SIZE)
10	0 10 20 30 40 50
SCALE	1:1000
A1	ORIGINAL SHEET SIZE

CLIENT	LEDA MANORSTEAD Pty Ltd
	LEDA

PROJECT	COBAKI, TWEED HEADS WEST CENTRAL OPEN SPACE BULK EARTHWORKS CONSTRUCTION CERTIFICATE CIVIL ENGINEERING DRAWINGS
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PRECINCT 9 BORROW AREA EARTHWORKS PLAN				
TASK	BY	INITIAL	DATE	APPROVED
REVIEW	CS		11.12.13	RPEQ No 7817
DESIGN	CJE		11.12.13	DRAWING NUMBER
DRAWN	GS		11.12.13	YC0229-1E1-EW13
				REVISION
				A



NOTE

* CONTRACTOR TO APPLY A TEMPORARY 1 in 2 BATTER AT THIS LOCATION DURING BULK EARTHWORKS PHASE. LANDFORMING OF FUTURE EARTHWORKS IS TO BE UNDERTAKEN AS PART OF FUTURE WORKS OF PRECINCT 11 AND SHALL NOT BE INCLUDED IN THE BORROW AREAS FOR THE CENTRAL OPEN SPACE.

LEGEND	
	FINAL DESIGN SURFACE
	EXISTING DESIGN SURFACE
	TEMPORARY 1 in 2 BATTER
	CUT (BORROW MATERIAL)

STATUS				CONSTRUCTION CERTIFICATE FOR APPROVAL	
A	ORIGINAL ISSUE	G.S.	11.12.13		
REV	DESCRIPTION	DRAWN	DATE		

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DRAWING IS NOT TO BE SCALED (AT ORIGINAL SHEET SIZE)	
SCALE	AS SHOWN

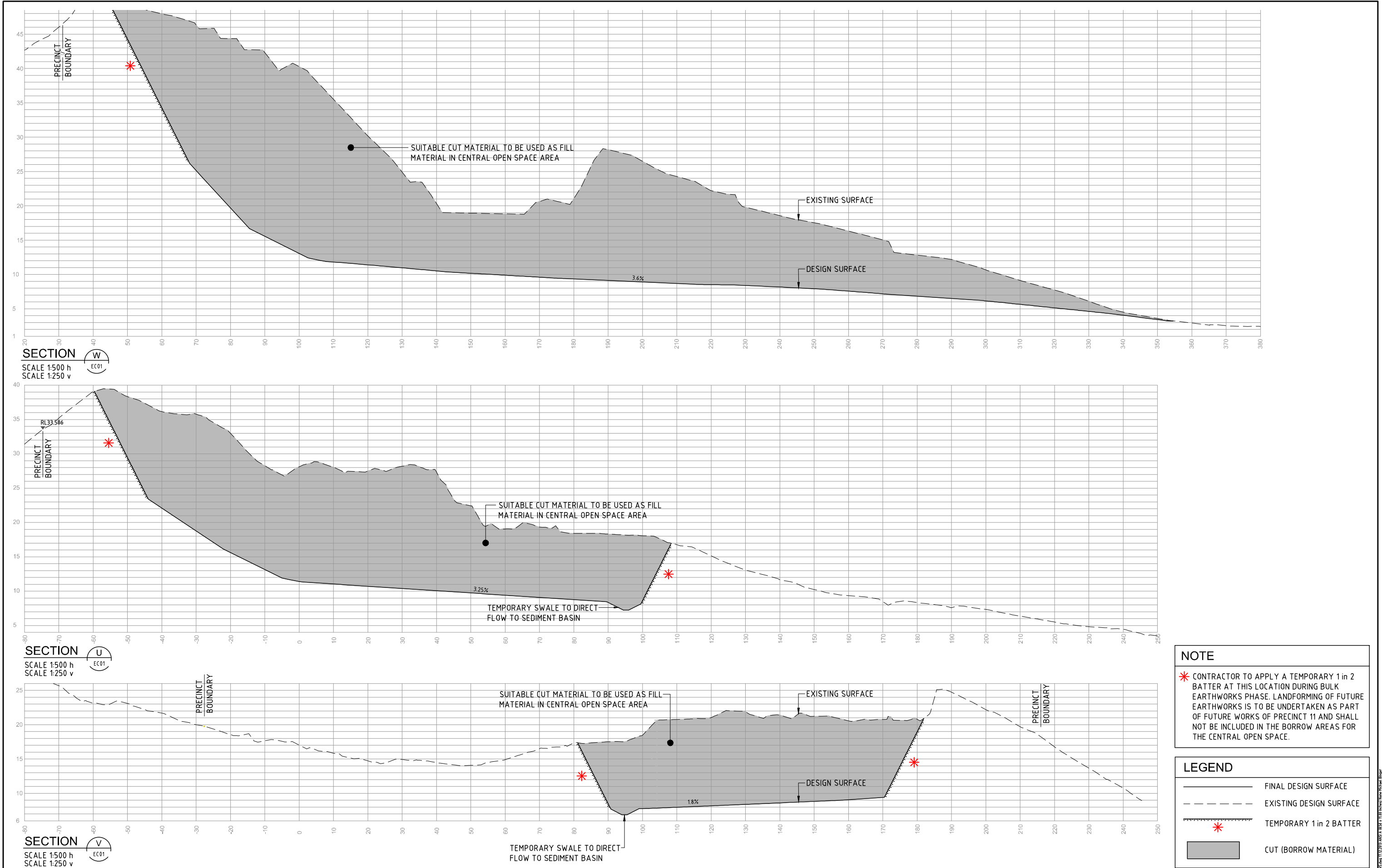
CLIENT	LEDA MANORSTEAD Pty Ltd
ORIGINAL SHEET SIZE	A1

PROJECT	COBAKI, TWEED HEADS WEST CENTRAL OPEN SPACE BULK EARTHWORKS CONSTRUCTION CERTIFICATE CIVIL ENGINEERING DRAWINGS
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TITLE						PRECINCT 9 BORROW AREA EARTHWORKS SECTIONS	
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No	7817	
REVIEW	CS		11.12.13				
DESIGN	MB		11.12.13				
DRAWN	GS		11.12.13				
DRAWING NUMBER						YC0229-1E1-ES08	REVISION
							A



STATUS				CONSTRUCTION CERTIFICATE FOR APPROVAL			
A	ORIGINAL ISSUE			G.S.	11.12.13		
REV	DESCRIPTION			DRAWN	DATE		

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DRAWING IS NOT TO BE SCALED			
SCALE (AT ORIGINAL SHEET SIZE)		ORIGINAL SHEET SIZE	
AS SHOWN		A1	

CLIENT

LEDA MANORSTEAD Pty Ltd

LEDA

PROJECT

COBAKI, TWEED HEADS WEST
CENTRAL OPEN SPACE
BULK EARTHWORKS
CONSTRUCTION CERTIFICATE
CIVIL ENGINEERING DRAWINGS



SEDGMAN
YEATS

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TITLE						PRECINCT 11 BORROW AREA EARTHWORKS SECTIONS	
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No	7817	
REVIEW	CS		11.12.13				
DESIGN	CJE		11.12.13				
DRAWN	GS		11.12.13				
				DRAWING NUMBER		YC0229-1E1-ES09	REVISION
							A

APPENDIX B – EARTHWORKS FENCING PLAN

APPENDIX C – NON-COMPLIANCE AND CORRECTIVE ACTION REGISTER

Non Conformance Number	Date	Location	Description	Works required	Allowance of action (days)	Photo log number	Date closed out	Closed out by (name and signature)
								Name: Signature:
								Name: Signature:
								Name: Signature:
								Name: Signature:
								Name: Signature:
								Name: Signature:
								Name: Signature:
								Name: Signature:
								Name: Signature:
								Name: Signature:
								Name: Signature:
								Name: Signature:
								Name: Signature:

APPENDIX D – COMPLAINTS REGISTER

COMPLAINTS REGISTER

Complainants Name	Address	Contact Phone Number	Brief Description of Complaint	Resolved (Date)

APPENDIX E – ENVIRONMENTAL INCIDENT REGISTER

ENVIRONMENTAL INCIDENT REPORT

Date of Incident:		
Type of Incident:		
Names of Staff Interviewed:		
Incident Witnessed by:		
Description of Incident:		
Damage to plant and equipment:		
Method of Clean up?:		
Authorities/Community involved?:		
Findings from Investigation:		
Recommended Actions (tick):		
Education or persons involved		
Improve Construction Methods		
Improve inspection/maintenance		
Change work method		
Equipment repair/replacement		
Other:		
Follow Up Evaluation (date):		
General Comments:		
Signed:		
Project Environmental Officer		
Date:		

APPENDIX F – ENVIRONMENTAL TRAINING REGISTER

Name	Company	Position on Project	Site Induction	Training Details	CEMP Version

APPENDIX G – SITE INSPECTION CHECKLISTS

Project:					
Inspection Date:		Area:			
PRE-CLEARING CHECKLIST					
#	Control Measure	Yes	No	N/A	Comment/Corrective Action
1	Has the boundary of the clearing zone been fenced/delineated				
2	Has the ecologist marked the communities and or individuals of threatened plants?				
3	Has the seed and plant material collection been undertaken?				
4	Has the in situ significant plants been fenced?				
5	Have habitat trees been identified?				
6	Has weed mapping and eradication been completed?				
7	Have areas of weed infected topsoil been separated/removed?				
8	Has vegetation and topsoil to be salvaged been identified?				
9	Mulching and chipping plant established?				
10	Have clearing contractors been educated on the no-go/ environmental protection areas?				
11	Have heritage items been identified and protected?				
12	Have permits to remove saltmarsh been gained from Fisheries?				
13	Have threatened fauna surveys been undertaken?				
14	Have all sediment control measures been installed?				
15	Have habitat trees been flagged for removal as stage 2 of the clearing works?				
16	Are WIRES and the spotter/catcher organised for clearing/				
17	Any other issues to add or delete from the checklist?				
Completed by:			Signature:		

Project:	COBAKI ESTATE				
Inspection Date:	Area/Precinct:				
WEEKLY CONSTRUCTION CHECKLIST					
#	Control Measure	Yes	No	N/A	Comments/Corrective Action
1	Is drainage from the project site being directed through necessary controls prior to entering any watercourse?				
2	Is vegetation being protected with Environmental Protection Zones?				
3	Is the integrity of the delineation fencing along the Environmental Protection Zone buffer satisfactory?				
4	Are fauna structures (koala posts and nest boxes) in place?				
5	Have hollows been salvaged for re-use?				
6	Have hollows been inspected by the fauna specialist?				
7	Has the area been inspected for threatened fauna?				
8	Has flora monitoring been undertaken?				
9	Is monitoring of water quality being undertaken?				
10	Is riparian and wetland monitoring being undertaken?				
11	Are disturbed areas being rehabilitated as soon as practical?				
12	Are suitable sedimentation and erosion control devices in place where necessary?				
13	Are protected areas being protected from sediment and erosion impacts?				
14	Are areas surrounding waterways satisfactorily stable?				
15	Is there evidence to suggest changes should be made to the site induction relating to flora and fauna aspects? (i.e. reoccurring issues, prevention measures, etc)				
16	Have any injuries or death to wildlife been identified or reported?				
17	Have any weed infestations been identified?				
18	Any other issues to add to the checklist?				
Completed by:		Signature:			

HOLLOW INSPECTION CHECKLIST	
Part 1 (To be completed prior to clearing)	
Inspection Date:	Location:
Project Ecologist:	
Tree Number:	Tree Location:
Tree species:	
Size of entrance: (Small: ≤5cm; Medium: 5-15cm; Large: 15-30cm; Extra Large: >30cm)	
Height of hollow from ground:	
Are there any additional hollows on same tree:	
Fauna species inhabiting hollow (if present) or species most likely to utilize the hollow:	
Can the hollow be soft-felled and relocated? If so, provide recommended GPS location for relocation:	
Part 2 (To be completed during clearing of the identified hollow)	
If an animal was present in the hollow, is it injured?	
Does it require immediate attention?	
Can it be released and, if so, where will it be released?	
If not, what time was the fauna rescue agency called?	
What was the outcome of the fauna rescue?	
Will a compensatory nest box be required? If so, specify the type/size and recommended GPS location:	
Additional Notes/Comments:	
Completed By:	Signed:

APPENDIX H – EROSION AND SEDIMENT CONTROL DRAWINGS

Within Appendix A

APPENDIX I – WASTE REGISTER

Date	Type of Waste	Destination			Contractor
		Recycle		Disposal	
		Onsite	Offsite		

APPENDIX J – MONITORING CHECKLIST

Monitoring Issue	Location	Frequency	Activity	Action Completed?	Signature
Pre- Construction					
Fauna	Precincts 9 & 11	Within one week prior to the commencement of clearing.	Inspection of fauna protection/exclusion fencing and erosion and sediment controls.		
		During all clearing activities.	Inspection of clearing area and habitat features for the presence of fauna.		
Flora	Precincts 9 & 11	Once	Inspection of all construction environmental controls.		
		During Clearing	Inspection for integrity of construction environmental controls		
		Every 6 months	Inspection for the presence of weeds		
Baseline Water Quality Monitoring	Sediment Basins	Monthly	Data collected for pH, turbidity, suspended solids, salinity, dissolved oxygen, dissolved organic compounds, magnesium and calcium hardness and temperature in accordance with the Groundwater Management Plan (SMEC, 2012f).		
Construction					
Fauna	Work areas	Daily	Inspection of fauna protection/exclusion fencing		
		Weekly general inspection	A general inspection completed for fencing associated with fauna. Rectifications reported and completed.		
		Monthly monitoring of Boyd Street, Cobaki Parkway and the Pacific Highway Tugun	Monitoring for road strike		

Monitoring Issue	Location	Frequency	Activity	Action Completed?	Signature
		Bypass on road strike.			
Surface Water Quality	Boards 1 to 4	Monthly	Water quality monitoring and sampling		
Storm Water	Stormwater retention basis	Weekly/ 12 hourly during rainfall events (>25 mm)/ when pH is recorded < 6.5	Water quality monitoring and sampling		
Contaminated Lands	Where potential for contamination is identified	Weekly	Inspection and sampling for potential contamination		
Noise	Nearest possible location to likely affected residence or boundary of.	Reactive (complaint based)	Noise monitoring		
Cultural Heritage	Entire site	As detected	Detection of Aboriginal objects or Aboriginal human remains reported and addressed.		
Erosion and Sediment Control	Work Areas	Daily	Inspection of erosion and sediment controls		
Air Quality	Work Areas	Daily	Visual observations for dust assessed, reported and managed		
Waste	Work Areas	Daily	Inspection of receptacles		
		Monthly	Monitoring of monthly volumes of waste streams		
Traffic and Pedestrian	Work Areas	Daily	Inspection of washing facilities, road traffic and public access roads.		

Monitoring Issue	Location	Frequency	Activity	Action Completed?	Signature
Management					
Biting Midge and Mosquito Control	Surface waters	Weekly	Inspection for presence of mosquito larvae undertaken in accordance with the Biting Midge and Mosquito Control Management Plan (McGinn, 2008).		

Comments:

Signed:

APPENDIX K – ENVIRONMENTAL MANAGEMENT PLANS

- Fauna Management Plan (K1);
- Vegetation Management Plan (K2);
- Cultural Heritage Management Plan (K3);
- Environmental Noise Impact Report (K4)

K1 - Fauna Management Plan