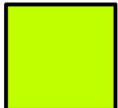


Stage One



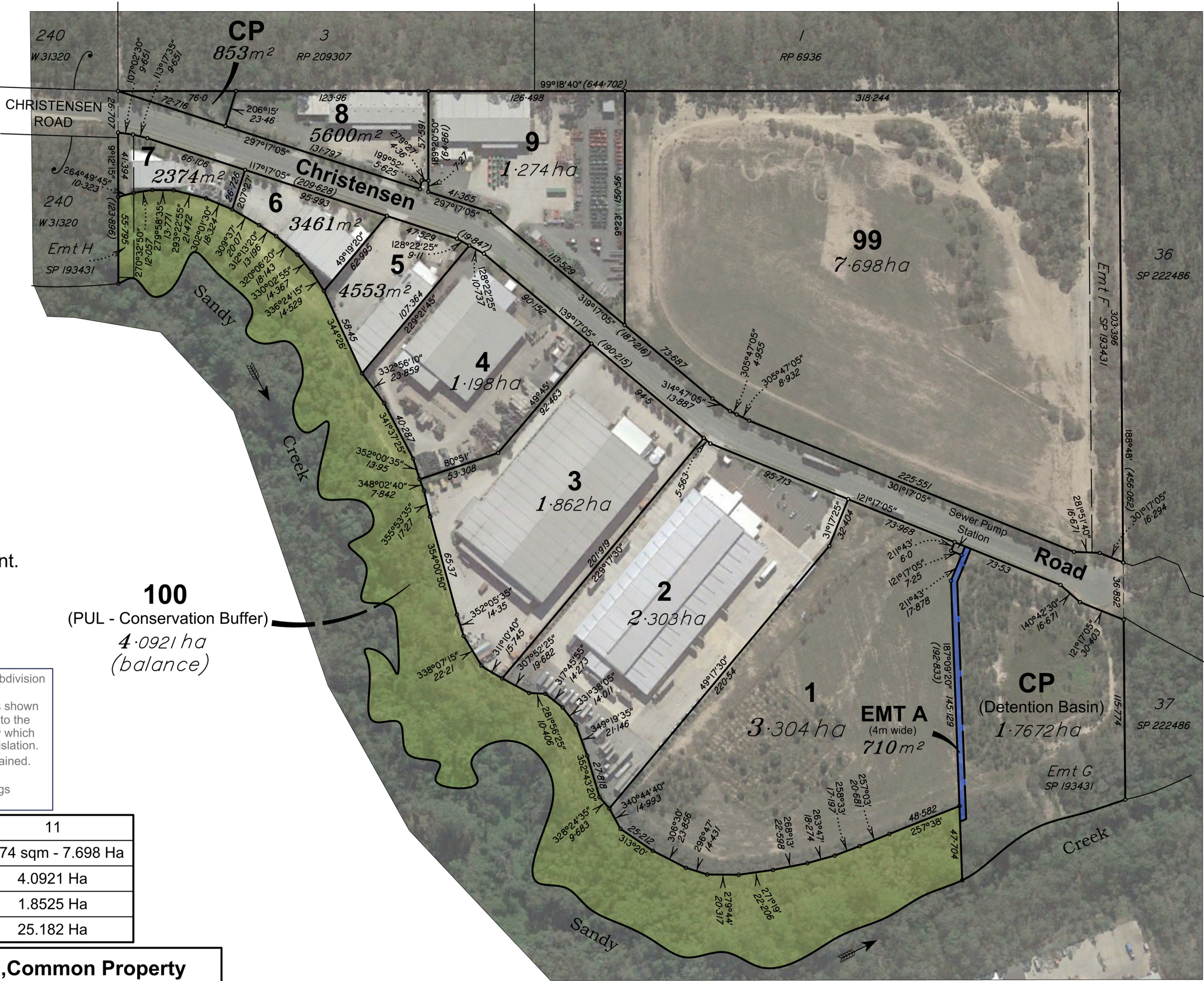
-  Denotes access easement.
-  Denotes conservation buffer zone.

 This plan has been prepared as a proposed subdivision and should not be used for any other purpose. The dimensions, areas and total number of lots shown hereon are subject to field survey and are also to the requirements of council and any other authority which may have requirements under any relevant legislation. Certificate of Title for this site has not been obtained. Therefore, no reliance should be placed on the information on this plan for any financial dealings involving the land.

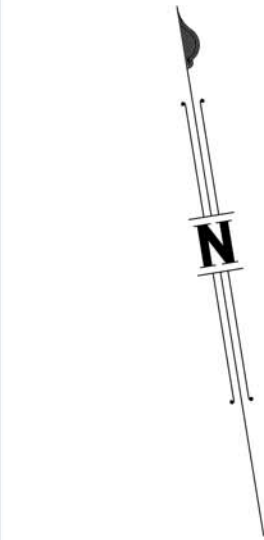
Number of new lots (including park)	11
Lot sizes	2374 sqm - 7.698 Ha
PUL - Conservation Buffer area	4.0921 Ha
Total Area of Common Property	1.8525 Ha
Total Site Area	25.182 Ha

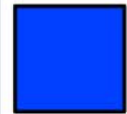
Proposed Lots 1-9,99,100,Common Property and Easement A in Common Property Cancelling Lot 334 on SP 193431

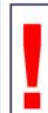
REVISIONS			ASSOCIATED CONSULTANTS:		SURVEYOR	DATE	LEVEL DATUM:	CLIENT:	SITE:	SCALE
					PDR	15/08/2017	N/A	King and Co Property Consultants	81-161 Christensen Road, Stapylton	1:2500 (A3)
31/8/17	Add easement A, detention basin & buffer lot size	A				CHECKED	AJS			PLAN REF: S0204-P4(A)



Stage Two



-  Denotes access easement.
-  Denotes conservation buffer zone.

 This plan has been prepared as a proposed subdivision and should not be used for any other purpose. The dimensions, areas and total number of lots shown hereon are subject to field survey and are also to the requirements of council and any other authority which may have requirements under any relevant legislation. Certificate of Title for this site has not been obtained. Therefore, no reliance should be placed on the information on this plan for any financial dealings involving the land.

Number of new lots	8
Lot sizes	5431 sqm - 1.604 Ha
Area of New Road	6179 sqm
Total Site Area	7.698 Ha

Proposed Lots 10-17
Cancelling Lot 99

REVISIONS	
30-10-17	Add easement A, detention basin & buffer lot size

ASSOCIATED CONSULTANTS:

SURVEYOR
DRAWN PDR

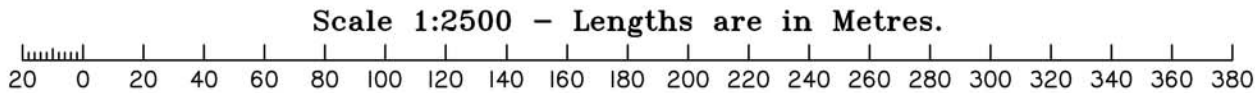
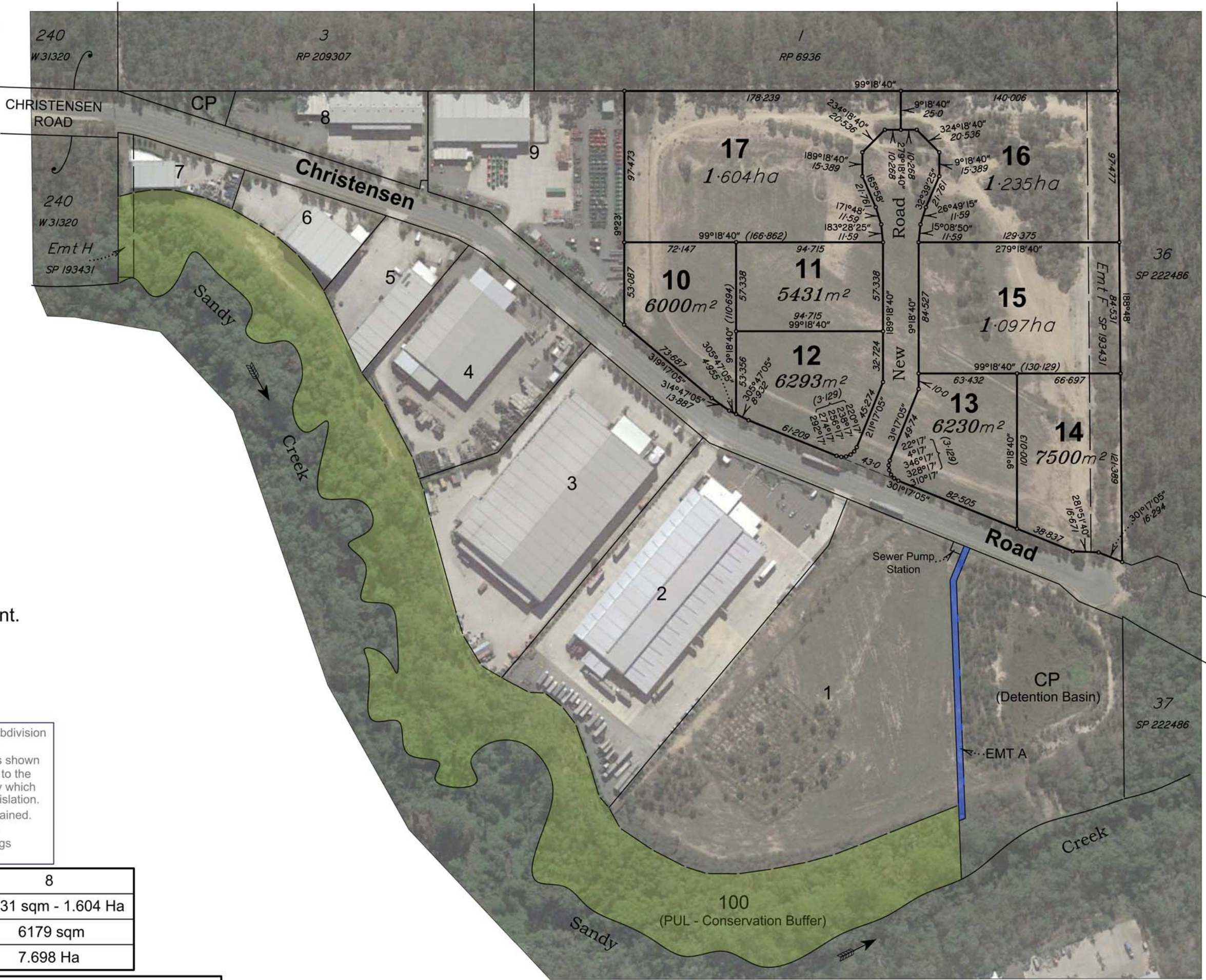
DATE 15/08/2017
CHECKED AJS

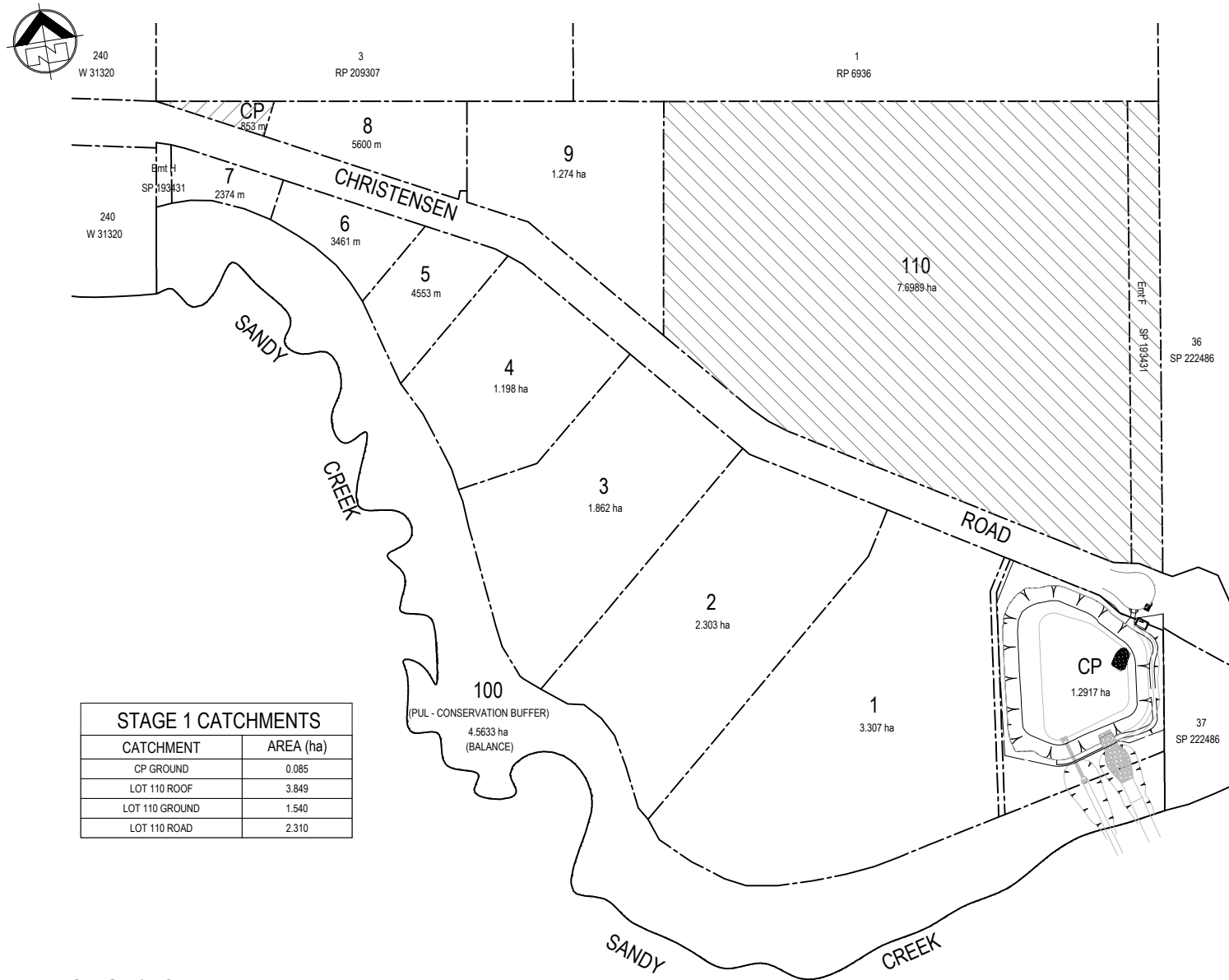
LEVEL DATUM:
N/A

CLIENT: King and Co
Property Consultants

SITE:
81-161 Christensen Road, Stapylton

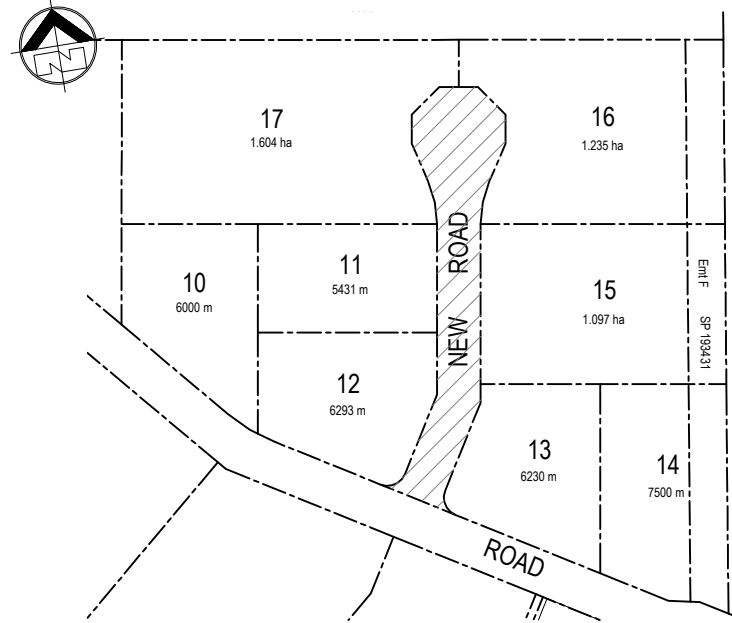
SCALE 1:2500 (A3)
PLAN REF: S0204-P5(A)





STAGE 1 CATCHMENTS	
CATCHMENT	AREA (ha)
CP GROUND	0.085
LOT 110 ROOF	3.849
LOT 110 GROUND	1.540
LOT 110 ROAD	2.310

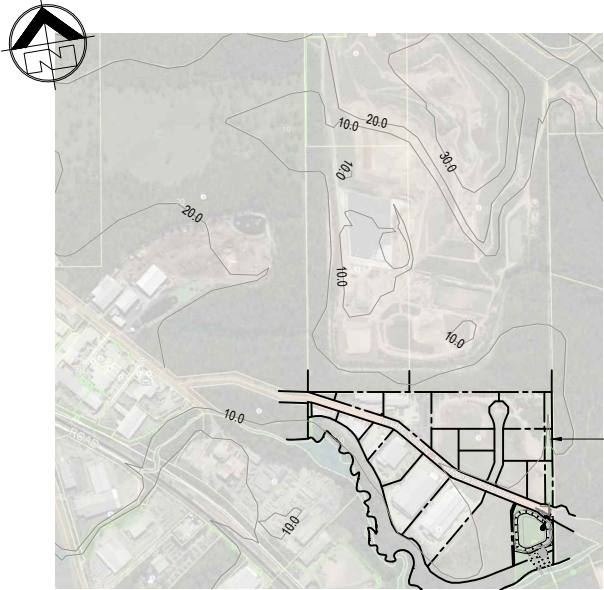
STAGE 1 - OVERALL PLAN
SCALE 1:1000 (A1)



STAGE 2 - LOT 110 SUBDIVISION PLAN
SCALE 1:500 (A1)

STAGE 2 CATCHMENTS	
CATCHMENT	AREA (ha)
CP GROUND*	0.085
LOT 110 ROOF	3.540
LOT 110 GROUND	3.540
LOT 110 ROAD	0.618

* REFER STAGE 1 PLAN FOR CP GROUND LOCATION



EXISTING UPSTREAM CONTOURS DETAIL
SCALE 1:10000 (A1)

EASEMENT F TO BE RELINQUISHED BY GCCC
AS THERE IS NO UPSTREAM CATCHMENT

PROJECT TEAM

Consulting Engineer:

i³ consulting pty ltd
engineering consultants
innovation, ingenuity, inspiration
LV2, 39 Sherwood Rd Toowoong, Qld 4066
www.icubed.com.au
ABN 89 106 675 156
p 07 3870 8888

PO Box 878 Toowoong, Qld 4066
mail@icubed.com.au
ACN 106 675 156

Engineers Certification:

Travis Smith MIE Aust. CPEng.
RPEQ 16400

Signature:

Date: 25/10/2017

A	FOR APPROVAL	19/09/2017	K.J.L.
REV	DESCRIPTION	DATE	BY

Status

FOR APPROVAL

Project
**84-160 CHRISTENSEN ROAD
STAPYLTON**

for
MS PROJECTS

Title
LAYOUT PLAN

Drawn	Date	Chkd	Date
K.J.L.	15/09/17	T.J.S.	15/09/17
Design	Date	Scale	A1
K.J.L.	15/09/17	AS INDICATED	
Project No.	Dwg. No.	Rev	
17-209	DA01	A	



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PROJECT TEAM

Consulting Engineer:



i³ consulting pty ltd
engineering consultants
innovation, ingenuity, inspiration
LV2, 39 Sherwood Rd Toowoong, Qld 4066
www.icubed.com.au
ABN 89 106 675 156
p 07 3870 8888

PO Box 878
Toowoong, Qld 4066
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ACN 106 675 156

Engineers Certification:

Travis Smith MIE Aust. CPEng.
RPEQ 16400

Signature: 

Date: 25/10/2017

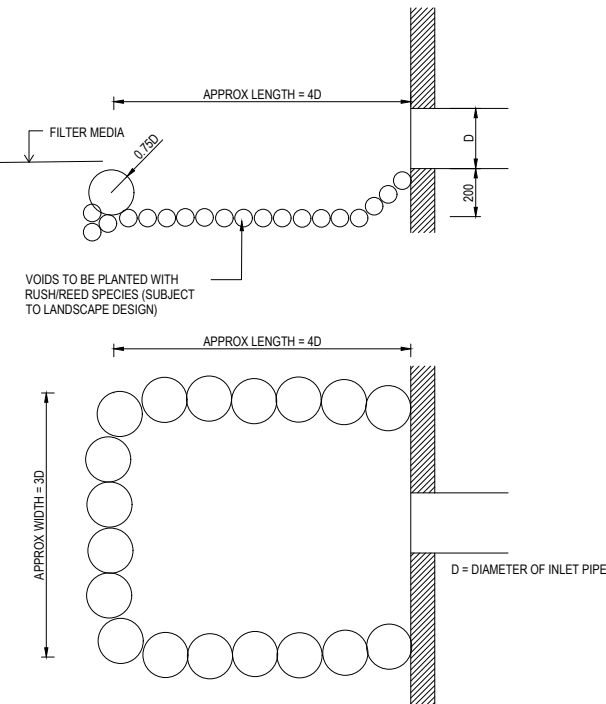
SEDIMENT FOREBAY NOTES

THE SIZE OF THE SEDIMENT FOREBAY IS ESTABLISHED USING THE FOLLOWING:

$V_s = A_c \times R \times L_o \times F_c$
WHERE: V_s = VOLUME OF FOREBAY SEDIMENT STORAGE REQUIRED (m^3)
 A_c = CONTRIBUTING CATCHMENT AREA (ha)
 R = CAPTURE EFFICIENCY (ASSUME 80%)
 L_o = SEDIMENT LOADING RATE ($m^3 / ha / year$) = 1.6
 F_c = DESIRED CLEANOUT FREQUENCY (years) = 1.0

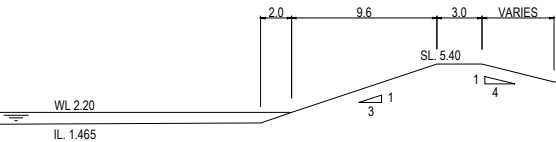
THE AREA OF THE SEDIMENT FOREBAY IS ESTABLISHED USING THE FOLLOWING:

$A_s = \frac{V_s}{D_s}$
WHERE: D_s = DEPTH OF SEDIMENT FOREBAY (m) = 0.3m



SEDIMENT FOREBAY DETAIL

NTS



SECTION

SCALE (A1): 1:250
SCALE (A3): 1:500



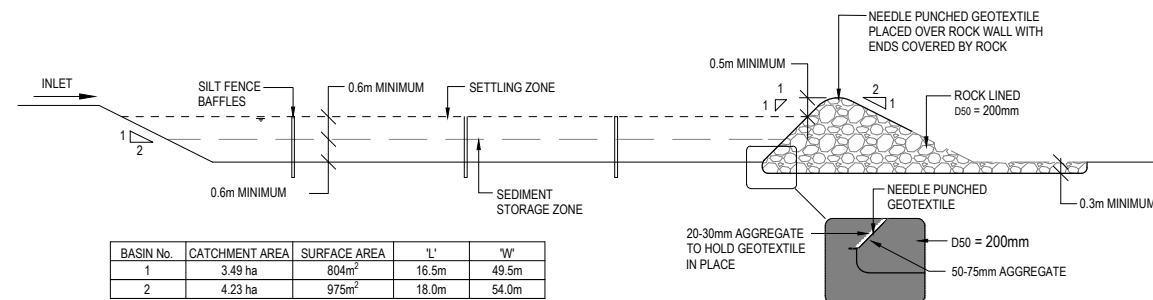
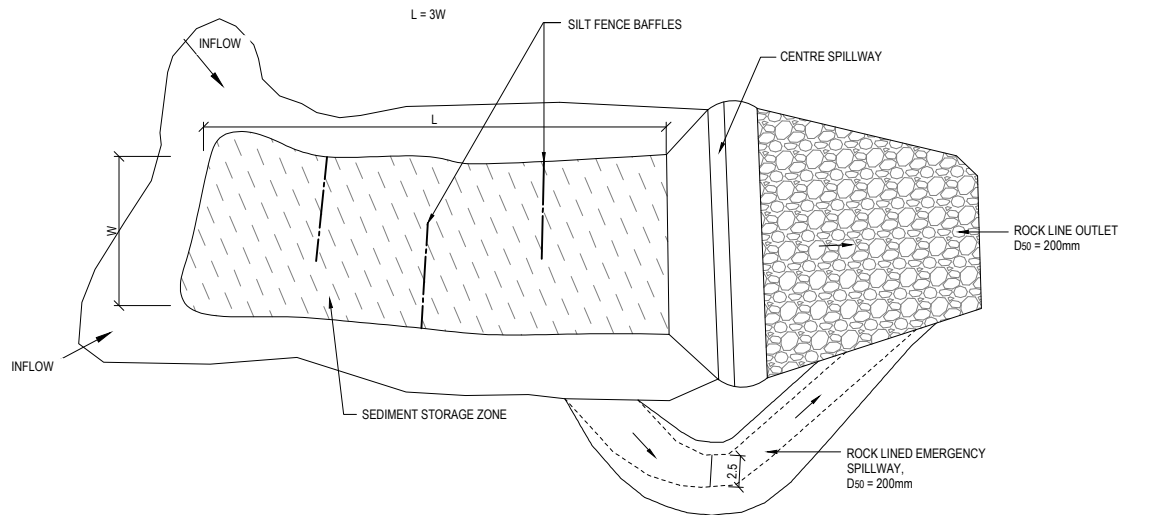
PLANTING SCHEDULE

LOCATION	SCIENTIFIC NAME	PLANTING DENSITY (QTY/m ²)
POOL	MYRIOPHYLLUM PAPILLOSUM	1.00
POOL	POTAMOGETON CRISPUS	1.00
POOL	RIBBONWEED	1.00
BATTER	CYPERUS POLYSTACHYOS	6-8
BATTER	LOMANDRA LONGIFOLIA VAR. LONGIFOLIA	4-6
BATTER	VIOLA HEDERACEA	2-4

WETLANDS DETAIL

SCALE 1:250 (A1)



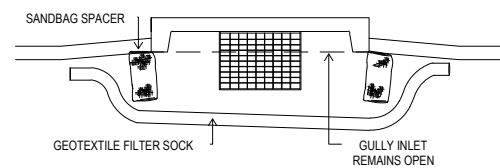


BASIN No.	CATCHMENT AREA	SURFACE AREA	'L'	'W'
1	3.49 ha	804m ²	16.5m	49.5m
2	4.23 ha	975m ²	18.0m	54.0m

BASIN SURFACE AREA = $3400 \times H_e \times Q$ (m²)
 $H_e = 1.1$ (HYDRAULIC EFFICIENCY FACTOR)
 $Q = 0.5 \times 1$ IN 1 YEAR ARI

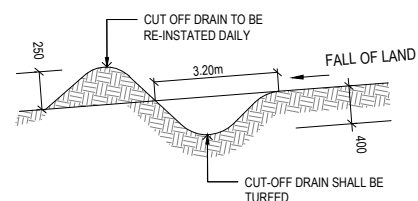
TYPE C SEDIMENT BASIN DETAILS

NTS

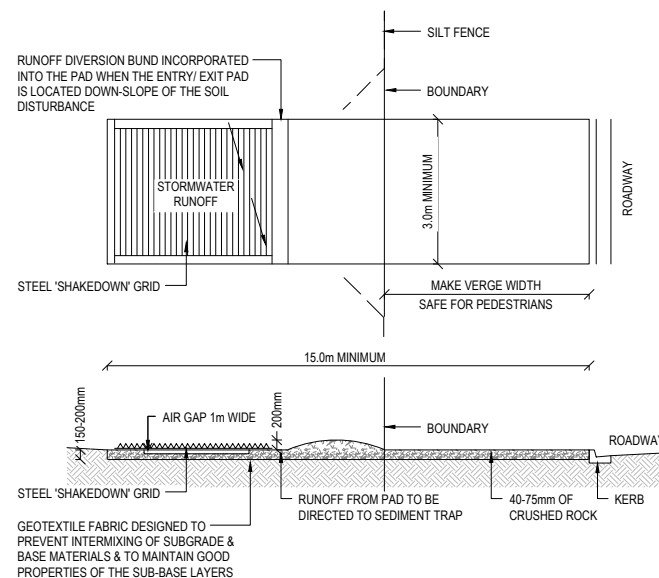


GULLY PIT SEDIMENT CONTROL

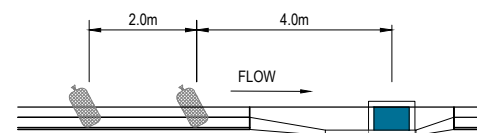
NTS



CUT OFF DRAIN / DIVERSION BERM



SHAKEDOWN DETAIL

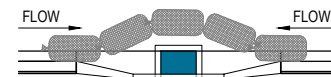


GULLIES ON GRADE

N.T.S.

SANDBAGS AT GULLIES

NTS



SAG GULLIES

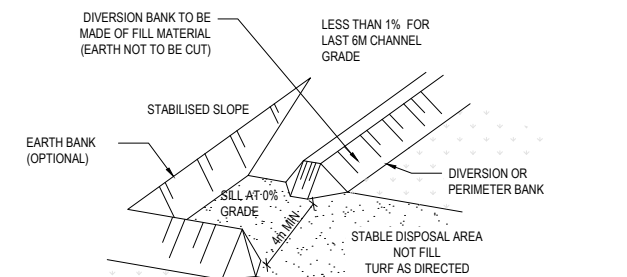
N.T.S.

OPERATION & MAINTENANCE NOTES

ALL ESC MEASURES MUST BE INSPECTED:
 - AT LEAST DAILY (WHEN WORK IS OCCURRING ON SITE) OR WEEKLY (WHEN WORK IS NOT OCCURRING ON SITE);
 - WITHIN 24 HOURS OF EXPECTED RAIN; AND
 - WITHIN 18 HOURS OF A RAINFALL EVENT (ie AN EVENT OF SUFFICIENT INTENSITY AND DURATION TO MOBILISE SEDIMENT ON SITE).

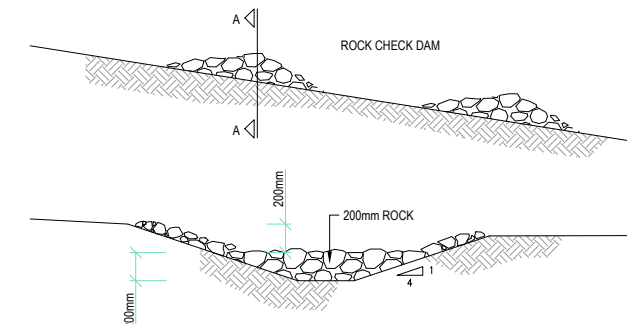
ESC MEASURE	MAINTENANCE TRIGGER	TIMEFRAME FOR COMPLETION OF MAINTENANCE
SEDIMENT BASINS	WHEN SETTLED SEDIMENT EXCEEDS THE VOLUME OF THE SEDIMENT STORAGE ZONE (SEE COUNCIL'S SEDIMENT BASIN DESIGN GUIDELINES).	WITHIN 7 DAYS OF THE INSPECTION.
OTHER ESC MEASURES	THE CAPACITY OF ESC MEASURES FALLS BELOW 30%.	BY THE END OF THE DAY

PRIOR TO LONG PERIOD OF SHUT DOWN ALL ESC MEASURES TO BE INSPECTED AND CLEANED.
 SEDIMENT BASIN CAPACITY TO BE CHECKED AND SIZE INCREASED IF REQUIRED FOR SHUT DOWN PERIOD.



LEVEL SPREADERS

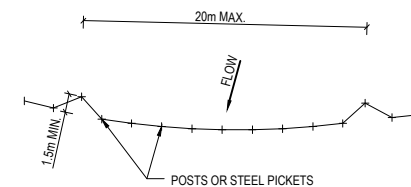
NTS



CROSS SECTION A-A AT CREST OF CHECK DAM

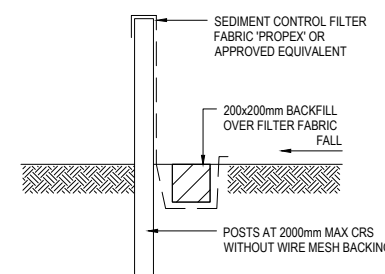
CHECK DAM SEDIMENT TRAP

NTS



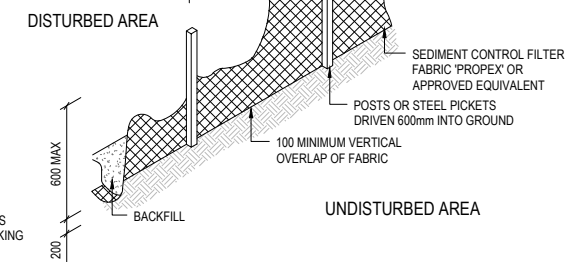
SEDIMENT CONTROL DEVICE DETAILS

AMENDED EXTRACTS FROM IPWEAQ STANDARD DRAWINGS D-0040, D-0041 AND ICEA BEST PRACTICE EROSION AND SEDIMENT



SILT FENCE SECTION

SILT FENCE DETAIL



SILT FENCE PERSPECTIVE

SILT FENCE DETAIL



Consulting Engineer:

i³ consulting pty ltd
 engineering consultants
 innovation, ingenuity, inspiration
 L2 39 Sherwood Rd Toowoong, Qld 4066
 www.icubed.com.au
 ABN 89 106 675 156
 P 07 3870 8888
 PO Box 878 Toowoong, Qld 4066
 mail@icubed.com.au
 ACN 106 675 156

Engineers Certification:

Travis Smith MIE Aust. CPEng.
 RPEQ 16400

Signature: *[Signature]*

Date: 25.10.2017

PROPOSED SUBDIVISION LOT 334 ON RP193431

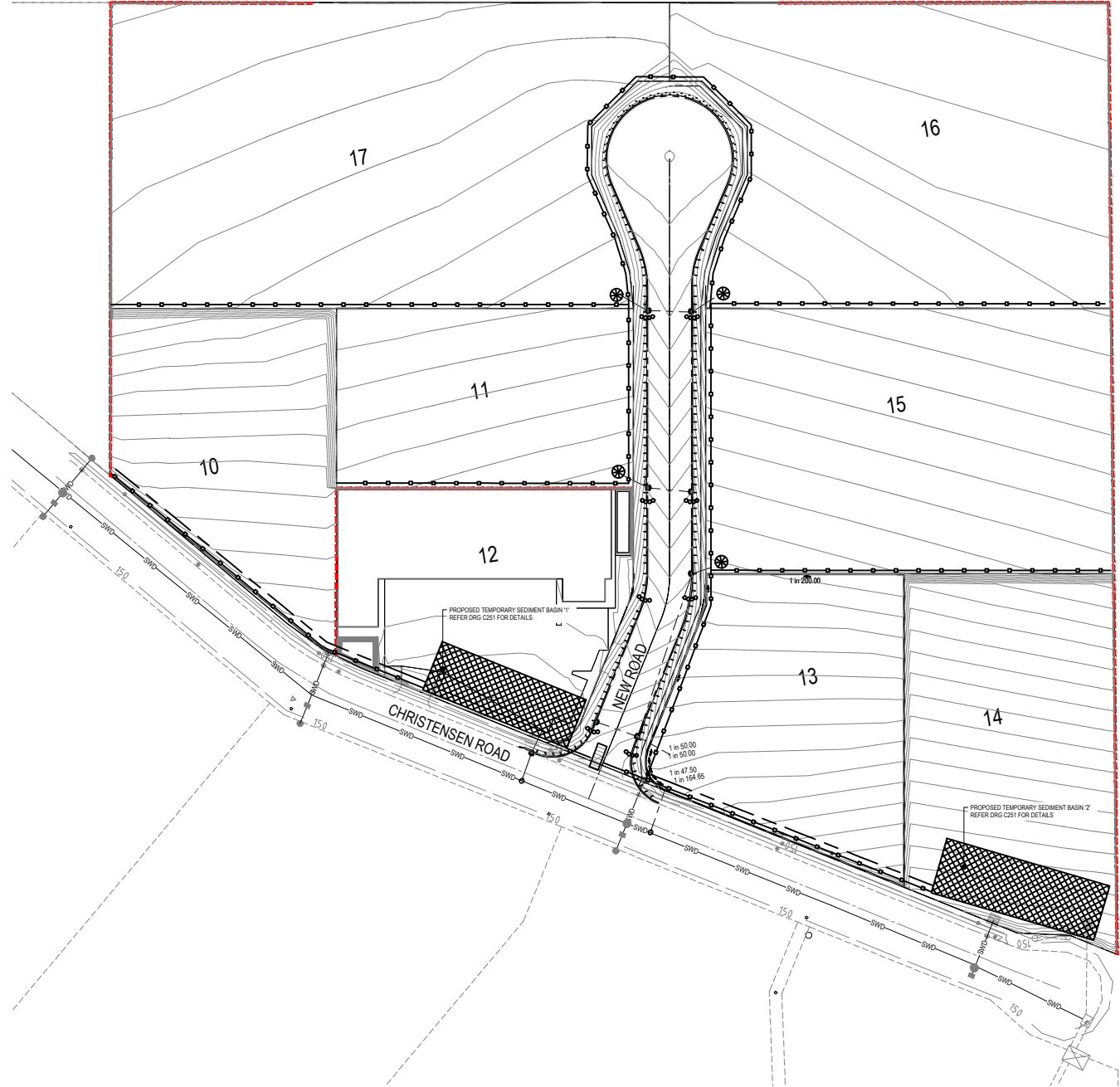
for MS PROJECTS

SEDIMENT AND EROSION CONTROL DETAILS

FOR APPROVAL

Drawn	Date	Chkd	Date
TJS	12.10.17	TJS	12.10.17
Design	Date	Apprd	Date
TJS	12.10.17		
Scale	A1	Certif	Date
AS INDICATED			
Project No.	Dwg. No.	Rev.	
16-283	C251	A	

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EROSION & SEDIMENT CONTROL PLAN
SCALE 1:500 (A1)

EROSION AND SEDIMENTATION CONTROL NOTES

1. CONTRACTOR TO NOMINATE SITE REPRESENTATIVE TO BE RESPONSIBLE FOR THE IMPLEMENTATION AND UP KEEP OF THE SILTATION AND EROSION MANAGEMENT CONTROL PLAN.
2. CONSTRUCTION OF ALL SEDIMENT MANAGEMENT DEVICES SHALL BE COMPLETED AND EFFECTIVE PRIOR TO:
 - STRIPPING OF TOPSOIL AND GRASS
 - BULK EARTHWORKS
 - SERVICE INSTALLATION
3. WHERE THE CONTRACTOR IS REQUIRED TO SLASH EXISTING VEGETATION, THE SLASHED HEIGHT SHALL BE AT LEAST 75mm, SO THAT THE STUBS CAN ASSIST IN PREVENTING EROSION.
4. ENSURE NO RUN OFF OR SEDIMENT DISCHARGES TO STREET OR ADJOINING PROPERTIES.
5. SHOULD THE SUPERINTENDENT, OR COUNCIL'S DESIGNATED REPRESENTATIVE, REQUEST THE CONTRACTOR TO IMPLEMENT AN EROSION AND SEDIMENT CONTROL MEASURE, THE CONTRACTOR SHALL IMPLEMENT IT WITHIN 24 HOURS.
6. BOTH TEMPORARY AND PERMANENT SEDIMENT MANAGEMENT DEVICES SHALL BE MAINTAINED, AT A SUITABLE LEVEL/CONDITION THROUGHOUT CONSTRUCTION.
7. SEDIMENT FENCES ARE TO BE CLEANED OUT WHEN CAPACITY IS REDUCED BY 30%.
8. IF EROSION AND SEDIMENT CONTROL DEVICES HAVE BEEN FOUND TO BE DEFICIENT OR FAILED IN SERVICE, DUE TO UNFORESEEN CIRCUMSTANCES, CORRECTIVE ACTION IS TO BE UNDERTAKEN IMMEDIATELY WHICH MAY INCLUDE AMENDMENTS/ADDITIONS TO THE ORIGINAL APPROVED EROSION CONTROL PLANS. SUCH ADDITIONS OR AMENDMENTS ARE TO BE APPROVED BY RELEVANT LICENSING AND COMPLIANCE OFFICER.
9. THE CONTRACTOR SHALL PROVIDE ONE VEHICLE ACCESS POINT TO SERVE THE SITE, ITS LOCATION, AND THE ASSOCIATED EROSION AND SEDIMENT CONTROL MEASURES, SHALL BE AS AGREED WITH COUNCIL'S DESIGNATED REPRESENTATIVE. THE PURPOSE OF THE ACCESS POINT AND CONTROL MEASURES IS TO MINIMIZE THE AMOUNT OF SEDIMENT TAKEN OFF SITE BY VEHICLE TYRES.
10. THE CONTRACTOR SHALL PROVIDE INLET PROTECTION TO ANY EXISTING GULLIES DIRECTLY DOWNSTREAM OF THE SITE OF WORKS.
11. THE CONTRACTOR SHALL TURF ALL DISTURBED AREAS OF VERGES, PRIOR TO ON MAINTENANCE INSPECTION.
12. ALL REMAINING BATTERS AND DISTURBED AREAS SHALL BE GRASS SEEDED WITHIN 7 DAYS OF FINAL TRIMMING AND ESTABLISHMENT OF 70 PERCENT GROUND COVER WITHIN 30 CALENDAR DAYS.

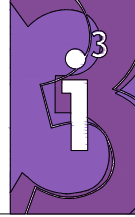
LEGEND

- BULK EARTHWORKS CONTOURS
- SEDIMENT FENCE
- GULLY PIT INLET PROTECTION
- FIELD INLET PROTECTION
- ENTRY / EXIT SHAKE DOWN DEVICE
- TREE PROTECTION FENCING
- STORMWATER CUT OFF / DIVERSION DRAIN
- TEMPORARY SEDIMENT BASIN - REFER DRG 17-209-C251 FOR DETAILS
- SAND BAG WEIR
- PROPOSED SEDIMENT FENCE SPILL THROUGH WEIR
- PROPOSED TURF TO 0.6m BEHIND KERB

WARNING

NO GUARANTEE IS GIVEN THAT SERVICES SHOWN ARE COMPLETE AND CORRECT. CONTRACTOR SHALL VERIFY EXACT POSITION OF SERVICES ON SITE BY HAND DIGGING OR OTHER NON DESTRUCTIVE MEANS PRIOR TO CONSTRUCTION AND SHALL MAINTAIN AND PROTECT THE SAME FOR THE DURATION OF THE CONTRACT.



Consulting Engineer:			
 i ³ consulting pty ltd engineering consultants innovation, ingenuity, inspiration L2 39 Sherwood Rd Toowoong, Qld 4066 www.icubed.com.au ABN 89 106 675 156 p 07 3870 8888			
B	CONTOURS UPDATED	24.10.2017	J.C.
A	FOR APPROVAL	19.01.2017	T.J.S.
REV	DESCRIPTION	DATE	BY

Engineers Certification:

Travis Smith MIE Aust. CPEng.
RPEQ 16400

Signature: 

Date: 25.10.2017

Project
PROPOSED SUBDIVISION
LOT 334 ON RP193431

for
MS PROJECTS

Title
SEDIMENT AND EROSION
CONTROL PLAN

Status
FOR APPROVAL

Drawn	Date	Chkd	Date
TJS	12.10.17	TJS	12.10.17
Design	Date	Apprd	Date
TJS	12.10.17		
Scale	A1	Certif	Date
AS INDICATED			
Project No.	Dwg. No.	Rev.	
16-283	C250	B	

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File Location P:\17209 - Christensen Road Development\10
Revised by Travis Smith
For date 1:52 PM

A	FOR APPROVAL	19.01.2017	T.J.S.
REV	DESCRIPTION	DATE	BY

Consulting Engineer:



i³ consulting pty ltd
engineering consultants
innovation, ingenuity, inspiration
L2 39 Sherwood Rd PO Box 878
Toowong, Qld 4066 Toowong, Qld 4066
www.icubed.com.au mail@icubed.com.au
ABN 89 106 675 156 ACN 106 675 156
p 07 3870 8888

Engineers Certification:

Travis Smith MIE Aust. CPEng.
RPEQ 16400

Signature: 

Date: 25.10.2017

Project
**PROPOSED SUBDIVISION
LOT 334 ON RP193431**

for
MS PROJECTS

Title
TYPICAL RETAINING WALL DETAILS

Status
FOR APPROVAL

Drawn	Date	Chkd	Date
TJS	12.10.17	TJS	12.10.17
Design	Date	Apprd	Date
TJS	12.10.17		
Scale	A1	Certif	Date
AS INDICATED			

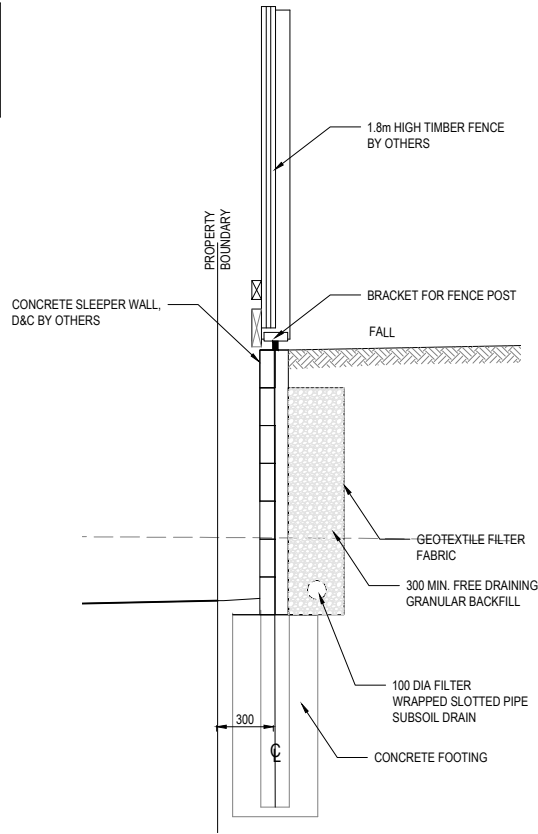
Project No.	Dwg. No.	Rev.
16-283	C202	A

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CONCRETE SLEEPERS

COLOUR: PLAIN CONCRETE
TEXTURE: PLAIN /SMOOTH



TYPICAL RETAINING WALL DETAIL

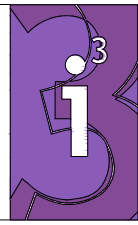
SCALE 1:20



File Location P:\17209 - Christensen Road Development\LD
Revised by Travis Smith
Plot Date 12.10.17

B	LEVELS REVISED	24.10.2017	J.C.
A	FOR APPROVAL	19.01.2017	T.J.S.
REV	DESCRIPTION	DATE	BY

Consulting Engineer:



i³ consulting pty ltd
engineering consultants
innovation, ingenuity, inspiration
L2 39 Sherwood Rd PO Box 878
Toowong, Qld 4066 Toowong, Qld 4066
www.icubed.com.au mail@icubed.com.au
ABN 89 106 675 156 ACN 106 675 156
p 07 3870 8888

Engineers Certification:

Travis Smith MIE Aust. CPEng.
RPEQ 16400

Signature: *TJS*

Date: 25.10.2017

Project
PROPOSED SUBDIVISION
LOT 334 ON RP193431

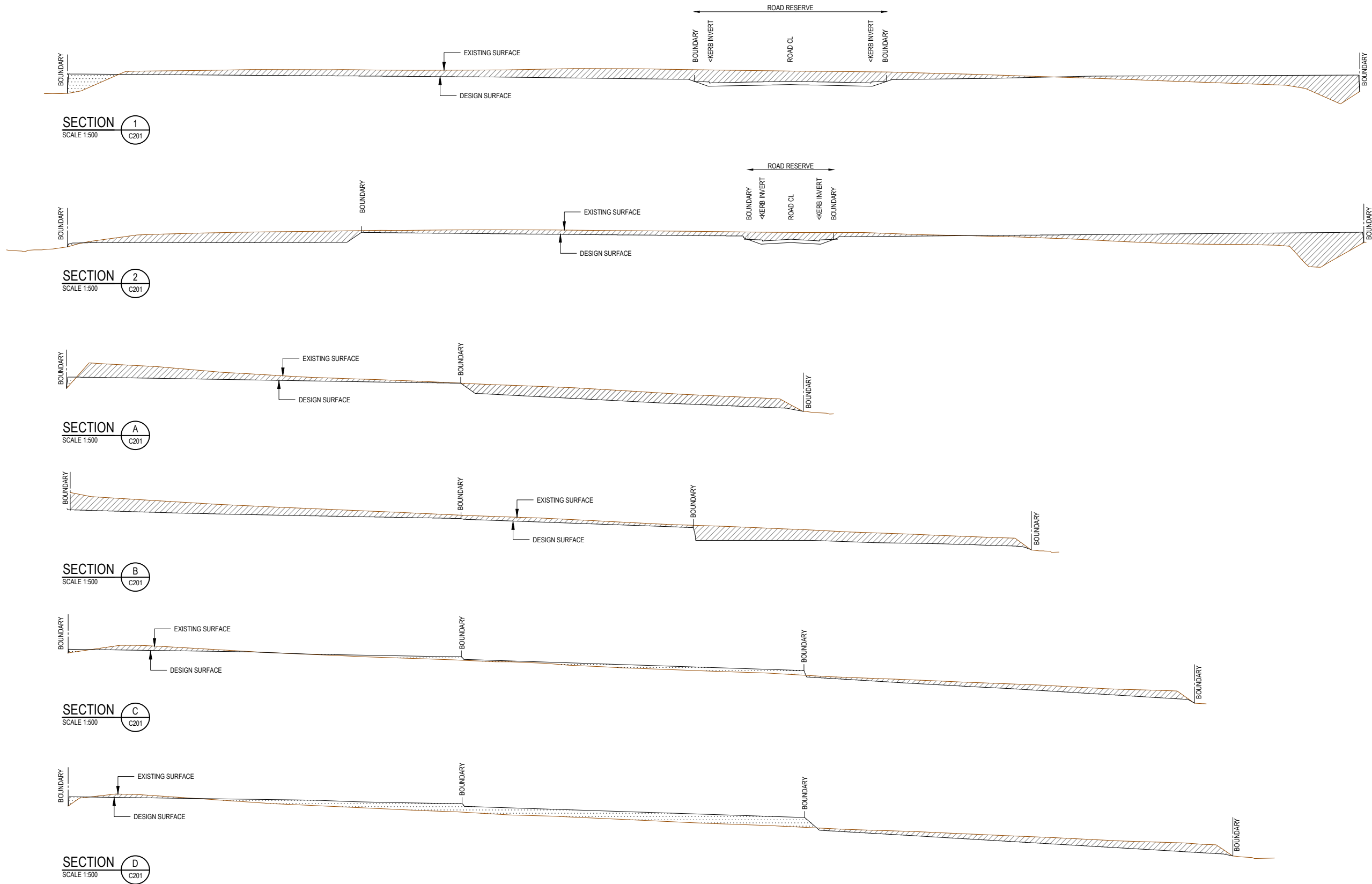
for
MS PROJECTS

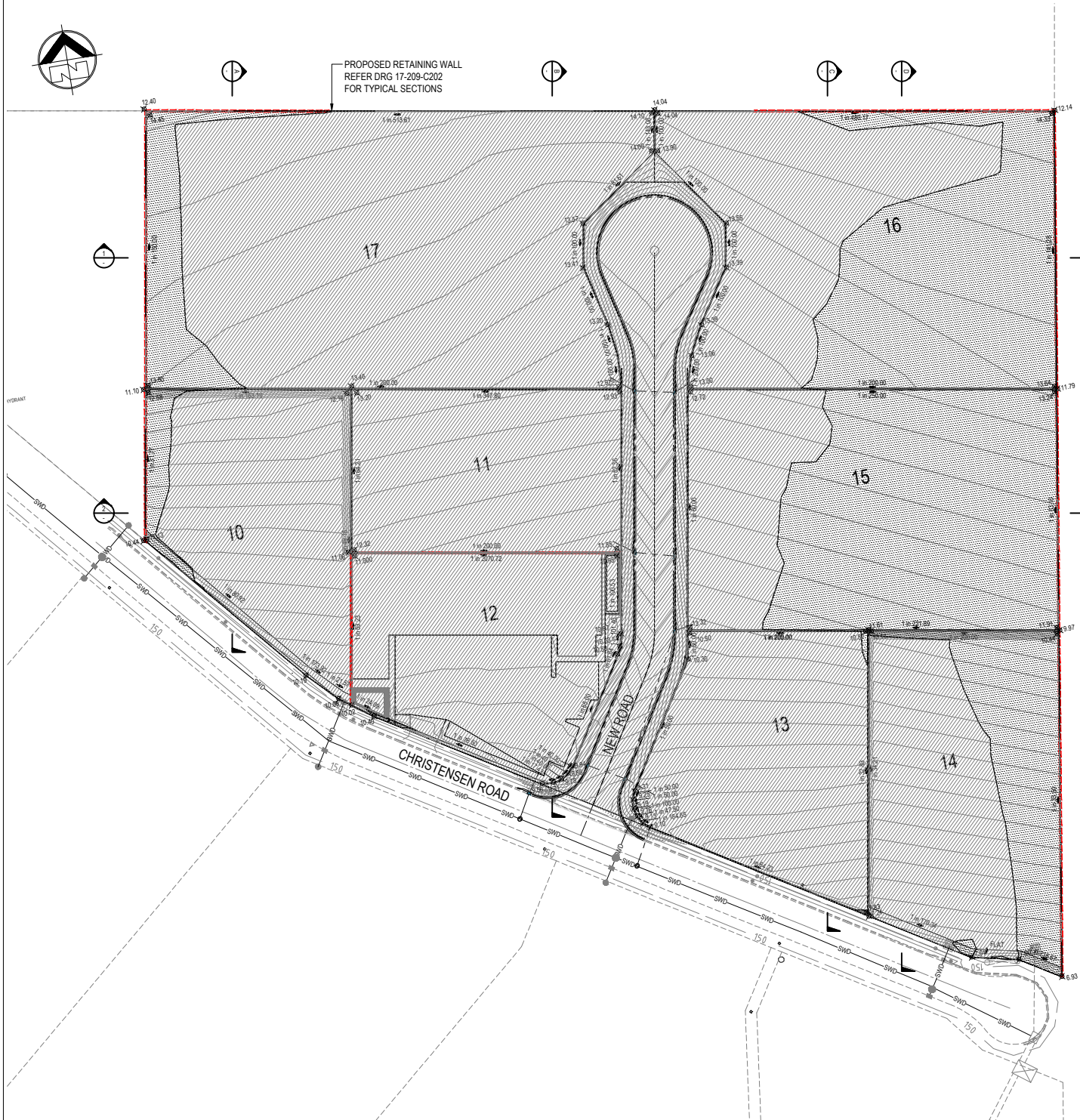
Title
BULK EARTHWORKS SECTIONS

Status
FOR APPROVAL

Drawn	Date	Chkd	Date
TJS	12.10.17	TJS	12.10.17
Design	Date	Apprd	Date
TJS	12.10.17		
Scale	A1	Certif	Date
AS INDICATED			
Project No.	Dwg. No.	Rev.	
16-283	C201	B	

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BULK EARTHWORKS PLAN

SCALE 1:250 (A1)

LEGEND

- BULK EARTHWORKS CONTOURS
- BULK EARTHWORKS LEVEL
- AREA CUT
- AREA FILL
- CONCRETE SLEEPER WALL, D&C BY OTHERS

BULK EARTHWORKS NOTES

- WORKS SHALL BE EXECUTED BY THE CONTRACTOR IN ACCORDANCE WITH AS3798 - 2007, 'GUIDELINES FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS' AND SHALL BE SUPERVISED BY AND APPROVED GEOTECHNICAL TESTING AUTHORITY, (GTA) AS DEFINED IN THE CODE TO A LEVEL 1 STANDARD.
- THE GEOTECHNICAL TESTING AUTHORITY SHALL PROVIDE A COMPLETED CONSTRUCTION PHASE REPORT INCLUDING AS A MINIMUM:
 - DAILY FIELD RECORD SHEETS INCLUDING ELEVATION AND LOCATION OF WHEEL LOAD TESTS COMPLETED AND THE NATURE OF REJECTED / ACCEPTED MATERIAL;
 - PHOTOGRAPHIC DIARY; AND
 - COMPACTION TEST RESULTS, INCLUDING X, Y, Z CO-ORDINATES OF SAMPLE;
 - RPEQ CERTIFICATION OF THE WORKS AND RE-CLASSIFICATION IN ACCORDANCE WITH AS2870.
- FOLLOWING INITIAL MOBILISATION AND PRIOR TO STRIPPING OF THE SITE, THE CONTRACTOR SHALL IMMEDIATELY UNDERTAKE THE EROSION AND SEDIMENT RUNOFF PREVENTION MEASURES.
- FOLLOWING THE STRIPPING OF THE UPPER ORGANIC SOIL, THE SITE SHALL BE PROOF ROLLED TO IDENTIFY ANY SOFT SPOTS OR FURTHER SIGNS OF UNSUITABLE MATERIAL. ANY SUCH AREAS SHALL BE RECTIFIED PRIOR TO COMMENCEMENT OF FILLING OPERATIONS.
- FILLING SHALL BE COMPLETED IN ACCORDANCE THE FOLLOWING REQUIREMENTS:
 - WORKS TO BE IN ACCORDANCE WITH AS3798 - 2007.
 - DEGREE OF COMPACTION TO BE AS FOLLOWS:
 - ALLOTMENT FILL = 95% STANDARD COMPACTION
 - VERGE = 95% STANDARD COMPACTION
 - SUBGRADE GREATER THAN 300mm BELOW TOP OF SUBGRADE = 95% STANDARD COMPACTION
 - SUBGRADE LESS THAN 300mm BELOW TOP OF SUBGRADE = 100% STANDARD COMPACTION
 - PAVEMENT 100% STANDARD COMPACTION
 - MATERIAL MOISTURE CONTENT TO BE IN THE RANGE OF 80% TO 100% OF OPTIMAL MOISTURE CONTENT (OMC).
 - FIELD DENSITY TESTING TO BE CARRIED OUT AS PER GOLD COAST CITY COUNCIL'S SUBDIVISION AND DEVELOPMENT GUIDELINES.
 - THE EXPENSE OF THE TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT THE SITE AND SURROUNDING AREAS FROM DAMAGE RESULTING FROM STORMWATER RUNOFF. TEMPORARY DIVERSION DRAINS AND OR OTHER DRAINAGE CONTROL DEVICES ARE TO BE IMPLEMENTED BY THE CONTRACTOR DURING CONSTRUCTION TO MINIMISE THE EFFECTS OF WEATHER. NO EXTENSIONS OF TIME WILL BE GRANTED SHOULD DAMAGE TO THE WORKS AND SURROUNDING AREAS RESULT FROM THE CONTRACTORS NEGLIGENCE IN NOT PROVIDING ADEQUATE PROTECTION.
- EXCESS SPOIL MATERIAL GENERATED DURING CONSTRUCTION IS TO BE REMOVED FROM THE SITE BY THE CONTRACTOR.
- ALL FILL MATERIAL PLACED ON THE SITE COMPRISING ONLY NATURAL EARTH AND ROCK IS TO BE FREE OF CONTAMINANTS (AS DEFINED BY SECTION 11 OF THE ENVIRONMENTAL PROTECTION ACT 1994), NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIALS. SUITABLE FILL MATERIAL IS DEEMED TO COMPLY WITH THE REQUIREMENTS OF CLAUSE 4.3, AS3798, GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS
- TURF SHALL BE LAID TO FULL WITH OF VERGE UPON COMPLETION OF WORKS.
- SHOULD ANY ABORIGINAL, ARCHAEOLOGICAL OR HISTORIC SITES, ITEMS OR PLACES BE IDENTIFIED, LOCATED OR EXPOSED DURING THE COURSE OR CONSTRUCTION OR OPERATION OF THE DEVELOPMENT, ALL ACTIVITIES SHALL CEASE FORTHWITH, AND THE CONTRACTOR SHALL CONTACT THE SENIOR CULTURAL HERITAGE OFFICER (PH. 3225-1074) OF THE ENVIRONMENTAL PROTECTION AGENCY.

VEGETATION MANAGEMENT

CLEARED VEGETATION SHALL NOT BE BURNED ON SITE. THE CONTRACTOR SHALL DUMP CLEARED MATERIAL AT AN APPROVED WASTE DISPOSAL FACILITY, OR MULCH AND RETAIN IT ON SITE FOR LATER USE IN LANDSCAPING AND REVEGETATION WORKS.

IN GENERAL, THE CONTRACTOR SHALL MINIMIZE THE AREA OF CONSTRUCTION VEHICLE ACTIVITY.

THE CONTRACTOR SHALL PROTECT TREES WITHIN 4 METRES OF GENERAL MACHINE OPERATION WITH TREE GUARDS, MADE OF RUBBER OR HARDWOOD GIRDLES TO WHICH HAVE BEEN ATTACHED 1.8m HIGH BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. THE CONTRACTOR SHALL STRAP THE GUARDS TO THE TREES PRIOR TO CONSTRUCTION AND KEEP THEM IN PLACE UNTIL COMPLETION.

WHERE POSSIBLE, THE CONTRACTOR SHALL TUNNEL UNDER TREE ROOTS RATHER THAN SEVERING THEM. WHERE ROOTS HAVE BEEN DAMAGED, THE CONTRACTOR SHALL SEVER THEM CLEANLY AND TREAT THE CUT FACES WITH A SUITABLE FUNGICIDE.

DUST CONTROL NOTES

THE CONTRACTOR SHALL ALTER WORK PRACTICES TO AVOID OR MINIMISE DUST GENERATION. THIS CAN INCLUDE BUT IS NOT LIMITED TO:

- SCHEDULING DUST-GENERATING ACTIVITIES FOR TIMES AND WEATHER CONDITIONS THAT WILL AVOID IMPACTS ON SENSITIVE USES.
- SPRAYING WATER ON UNPAVED ROADS, ACCESS TRACKS AND STOCKPILES AT A SUFFICIENT LEVEL TO SUPPRESS DUST GENERATION.
- REMOVING MATERIALS SPILLED OR TRACKED ONTO PAVED ROADS THAT MAY CREATE DUST.
- RESTRICTING VEHICLE MOVEMENTS AND/ OR VEHICLE SPEEDS ON UNPAVED ROADS.
- COVERING LOADS ON HAULAGE VEHICLES.
- WASHING TYRES OF VEHICLES LEAVING SITE.
- COVERING OR ENCLOSING STOCKPILES.
- USING DUST COLLECTION DEVICES ON RELEVANT EQUIPMENT.
- MINIMISING THE AREA DISTURBED, AND REVEGETATING EXPOSED AREAS AS SOON AS PRACTICAL.
- USING WINDBREAKS AND SCREENS TO RESTRICT DUST MOVEMENT.
- STREET CLEANING

PRELIMINARY
BULK EARTHWORK
QUANTITIES

	VOLUME (m3)
CUT	-50365
FILL	23942
BALANCE	-26423

NO BULKING FACTORS HAVE BEEN APPLIED.

WARNING

NO GUARANTEE IS GIVEN THAT SERVICES SHOWN ARE COMPLETE AND CORRECT. CONTRACTOR SHALL VERIFY EXACT POSITION OF SERVICES ON SITE BY HAND DIGGING OR OTHER NON DESTRUCTIVE MEANS PRIOR TO CONSTRUCTION AND SHALL MAINTAIN AND PROTECT THE SAME FOR THE DURATION OF THE CONTRACT.



B	LEVELS REVISED	24.10.2017	J.C.
A	FOR APPROVAL	19.01.2017	T.J.S.
REV	DESCRIPTION	DATE	BY

Consulting Engineer:



i³ consulting pty ltd
engineering consultants
innovation, ingenuity, inspiration
L2 39 Sherwood Rd Toowong, Qld 4066
www.icubed.com.au
ABN 89 106 675 156
p 07 3870 8888
PO Box 878 Toowong, Qld 4066
mail@icubed.com.au
ACN 106 675 156

Engineers Certification:

Travis Smith MIE Aust. CPEng.
RPEQ 16400

Signature: *TJS*

Date: 25.10.2017

Project
PROPOSED SUBDIVISION
LOT 334 ON RP193431

for
MS PROJECTS

Title
BULK EARTHWORKS LAYOUT PLAN

Status
FOR APPROVAL

Drawn	Date	Chkd	Date
TJS	12.10.17	TJS	12.10.17
Design	Date	Apprd	Date
TJS	12.10.17		
Scale	A1	Certif	Date
AS INDICATED			
Project No.	Dwg. No.	Rev.	
16-283	C200	B	

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