

1. GENERAL

2. ANY DISCREPANCIES WITHIN THESE DRAWINGS SHALL BE REFERRED TO THE SUPERINTENDENT FOR DIRECTION BEFORE PROCEEDING WITH WORK.

3. NO SUBSTITUTE MATERIALS SHALL BE USED WITHOUT THE APPROVAL OF THE SUPERINTENDENT.

4. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, RELEVANT AUSTRALIAN STANDARDS, RELEVANT PROVISIONS OF THE QUEENSLAND BUILDING ACT, AND THE NATIONAL CONSTRUCTION CODE.

5. ALL WORK SHALL BE UNDERTAKEN IN A SAFE AND RESPONSIBLE MANNER AND IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF THE QUEENSLAND WORK, HEALTH, AND SAFETY ACT; QUEENSLAND WORK HEALTH AND SAFETY REGULATION; CODES OF PRACTICE AND INDUSTRY ACCEPTED CONSTRUCTION PRACTICE AND PRINCIPLES.

6. DURING CONSTRUCTION MAINTAIN THE STRUCTURE IN A STABLE CONDITION AND ENSURE NO PART IS OVERSTRESSED. PROVIDE ALL TEMPORARY PROPPING AND BRACING NECESSARY TO ACHIEVE THIS.

7. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY PROTECTION AND ADEQUATE SITE FENCING TO PREVENT ANY UNAUTHORISED ENTRY TO THE WORKS.

8. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH GEOTECHNICAL REPORT NO. PG-0734, 2017-10-05, GR VER 1 PRODUCED BY PRECISE GEOTECHNICAL ON 20 OCTOBER 2017.

- 2.1 ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600, AS/NZS 4671, MRTS70 AND MRTS71.
- 2.2 REINFORCED CONCRETE EXPOSURE CLASSIFICATION C2 IN ACCORDANCE WITH AS 3600-2009.
- 2.3 65mm MIN. COVER TO ALL REINFORCING STEEL UNLESS OTHERWISE SPECIFIED.
- 2.4 ALL CONCRETE TO BE S50/20 UNLESS SPECIFIED OTHERWISE.

3.1 THE CONSTRUCTION WORKS WILL REQUIRE AN ENVIRONMENTAL MANAGEMENT PLAN, CONSTRUCTION EMP(C). THIS EMP(C) SHOULD ADDRESS ISSUES SUCH AS, BUT NOT LIMITED TO: WATER QUALITY, EROSION AND SEDIMENTATION, CULTURAL HERITAGE, NOISE, VIBRATION, AIR QUALITY, ACID SULPHATE SOILS, CONTAMINATED SITES, FLORA AND FAUNA, VEGETATION, PEST MANAGEMENT, WASTE, AND CHEMICALS AND FUELS.

3.2 ALL WORKS SHALL BE STRICTLY PERFORMED IN ACCORDANCE WITH ALL PERMIT RESTRICTIONS, EGO APPROVAL CONDITIONS, AND THE CONTRACTOR'S EMP(C).

3.3 THE ENTIRETY OF THE CONTRACTOR'S WORK PERSONNEL AND SUB CONTRACTORS SHALL OBTAIN A RCC CONTRACTOR SAFETY INDUCTION CARD PRIOR TO COMMENCING WORKS ONSITE.

3.4 THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION WORKS DO NOT RESULT IN THE CONTAMINATION OF ADJACENT WATERWAYS, WETLANDS AND/OR ECOSYSTEMS.

3.5 CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

3.6 ALL VESSELS, STRUCTURES, PLANT AND EQUIPMENT ASSOCIATED WITH THE CONSTRUCTION OF THE APPROVED WORKS MUST BE LIT/MARKED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS AND REQUIREMENTS SUCH THAT UNDERTAKING THE CONSTRUCTION WORKS DOES NOT CAUSE A RISK TO THE SAFE NAVIGATION OF SHIPS:
- ANY ANCHORS DEPLOYED MUST BE MARKED WITH YELLOW BUOYS AND FITTED WITH YELLOW LIGHTS.

3.7 LIGHTING PROVIDED MUST NOT OBSCURE, DISGUISE OR OTHERWISE INTERFERE WITH THE EFFECTIVENESS OF NAVIGATIONAL LIGHTING.

4.1 ALL WORKMANSHIP MATERIALS SHALL BE IN ACCORDANCE WITH MRTS70, MRTS72, MRTS300, SD4000, SD4002, SD4020, SD4021 AND SD4022.

4.2 ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 20mm X 20mm CHAMFERS UNLESS NOTED OTHERWISE.

4.3 DYNAMIC FACTOR = 4.

4.4 THE PRECAST SUPPLIER SHALL ENSURE THAT THE DYNAMIC EFFECTS DURING MANUFACTURE, LIFTING, HANDLING, TRANSPORTATION AND INSTALLATION DO NOT EXCEED THE DESIGN DYNAMIC FACTOR ABOVE. THE PRECAST SUPPLIER SHALL PROVIDE, IF REQUIRED, ANY ADDITIONAL REINFORCEMENT/ANCHORS TO UNDERTAKE THE MANUFACTURE AND SUPPLY OF THE PRECAST UNITS.

4.5 THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE PRECAST PANELS ARE NOT OVERSTRESSED DURING LIFTING, HANDLING, TRANSPORTATION, AND INSTALLATION.

4.6 ALL PANELS DAMAGED DURING MANUFACTURE, TRANSPORTATION AND/OR ERECTION SHALL BE REJECTED, UNLESS OTHERWISE INSTRUCTED BY THE SUPERINTENDENT AFTER INSPECTION OF SUCH PANELS.

5.1 WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH MRTS300 AND TMR STD DRG 4020.

6.1 GEOTEXTILE FILTER MATERIAL SHALL BE IN ACCORDANCE WITH MRTS300 AND TMR STD DRG 4021.

7.1 CRUSHED ROCK COMPACTION SHALL BE IN ACCORDANCE WITH MRTS300.

7.2 DESIGN SURFACE LEVELS SHALL BE RESTORED IF DISTORTION OCCURS DURING COMPACTION.

7.3 GEOGRID MATERIAL SHALL BE IN ACCORDANCE WITH MRTS300 AND TMR STD DRG 4021105 GEOGRID APERTURE SIZE APPROXIMATELY 37x37 TO CONTAIN 75mm CRUSHED ROCK.

7.4 UNLESS SHOWN OTHERWISE LAPS SHALL BE 250 MINIMUM AND BRAIDED TOGETHER SO THAT BOTH EDGES ARE FIXED TO THE LAPPED SHEETS. GEOGRID BRAID SHALL HAVE A NOMINAL WEIGHT OF 6.8 g/m AND BE MADE FROM 3 PLY, 19 STRANDS PER PLY, HIGH DENSITY POLYETHYLENE (HDPE), AND SHALL HAVE A BREAKING STRENGTH GREATER THAN 200kg.

AHD	AUSTRALIAN HEIGHT DATUM
AS	AUSTRALIAN STANDARD
CRS	CENTRES
HAT	HIGHEST ASTRONOMICAL TIDE
LAT	LOWEST ASTRONOMICAL TIDE
m	METRES
MIN.	MINIMUM
mm	MILLIMETRES
MHWS	MEAN HIGH WATER SPRINGS
MLWS	MEAN LOW WATER SPRINGS
OD	OUTSIDE DIAMETER
PSM	PERMANENT SURVEY MARK
RL	REDUCED LEVEL
SS	STAINLESS STEEL
TMR	DEPARTMENT OF TRANSPORT AND MAIN ROADS
TP	TYPICAL

TMR PRECAST PLANK

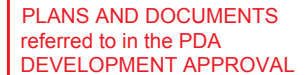
D50 = 150mm ROCK

CAST INSITU ANCHOR BEAM

REMOVE EXISTING PRECAST PLANKS

CONTROL LINE

SYMBOL	DESCRIPTION
	PROPERTY BOUNDARY
	EXING CONTOUR
	EDGE OF BITUMEN
	EDGE OF VEGETATION
	EDGE OF FOOTPATH
	KERB LINE
	KERB RESTRAINT
	TOP EDGE OF ROCK REVETMENT
	LOG BARRIER
	FENCE GATE
	FENCE POST
	SIGN SINGLE POST
	SIGN TWO POSTS
	TREE
	STREET LIGHT POLE



Date: 4 April 2018



PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

ENGINEERING CERTIFICATION
(Civil)

L. FRISKE
RPEQ No. 15348

DESIGN SERVICES DWG	REV
46967-02	P1

NOT TO SCALE

P1	31.10.17	PRELIMINARY ISSUE	TAF	LMS	LRP	-
RfV	JATF	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED

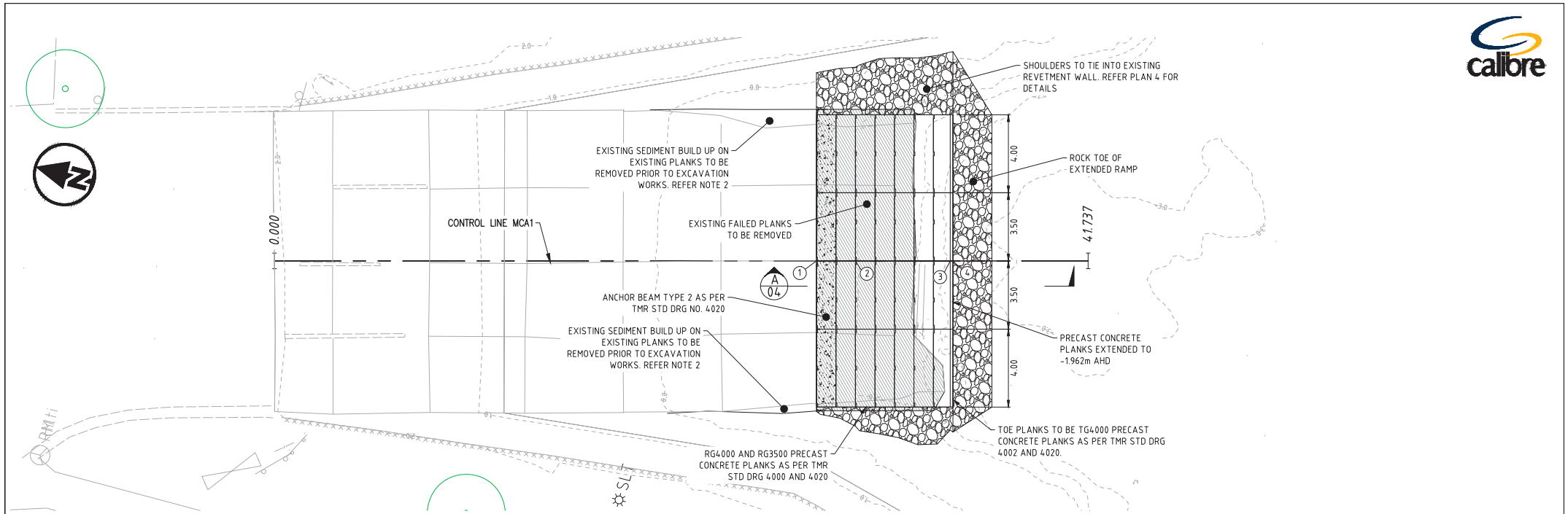


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SCALE	1:500@A3
FILE# / RUN#	P1203020
JOB #	46967
SURVEYOR	J MCGRATH

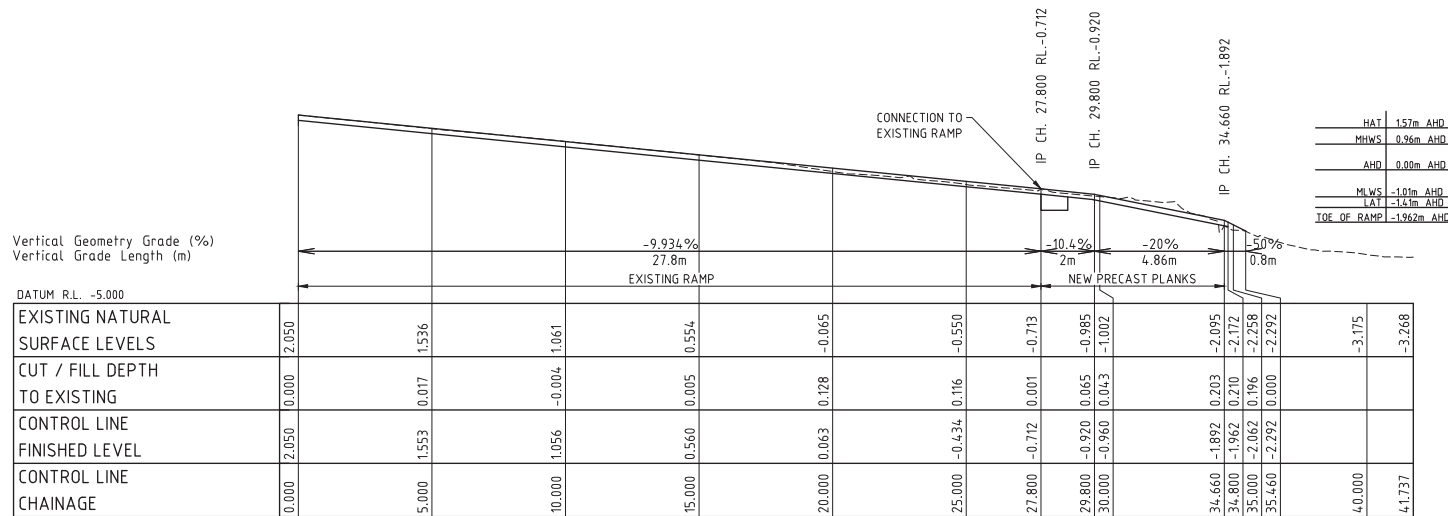
SURVEY OF REDLAND BAY WIENAM CREEK BARGE RAMPS P1203020 COMBINED WITH P1203019			
FIELD BK	04/11	LEVEL BK	01/11
HORIZ DATUM	RCC	VERT DATUM	AHD
ORIGIN PSM	PSM113437	ORIGIN RL	1986

<u>PROJECT:</u>	BANANA STREET, REDLAND BAY BOAT RAMP UPGRADE
<u>TITLE:</u>	GENERAL NOTES AND LEGEND

SHEET SIZE: A1
PLAN 2 OF 5



PLAN



Vertical Geometry Grade (%)
Vertical Grade Length (m)

LONGITUDINAL SECTION MCA1

SETOUT TABLE - MCA1					
POINT	CHAINAGE	EASTING	NORTHING	LEVEL (m AHD)	BEARING
1	27.800	30655.362	143753.546	-0.712	165°4'18"
2	29.800	30655.877	143751.614	-0.920	165°4'18"
3	34.660	30657.129	143746.918	-1.892	165°4'18"
4	34.800	30657.165	143746.783	-1.962	165°4'18"

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2018/912

Date: 4 April 2018



NOTES:

- REFER PLAN 02 FOR GENERAL NOTES AND LEGEND
- IF REVETMENT WALL EXTENTS ARE AFFECTED BY SEDIMENT REMOVAL, THE STRUCTURAL INTEGRITY OF REVETMENT WALL MUST BE ASSESSED BY A EXPERIENCED GEOTECHNICAL ENGINEER PRIOR TO EXCAVATION WORKS.

PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

ENGINEERING CERTIFICATION
(Civil)

LFRSKE
RPED No. 15348

DESIGN SERVICES DWG
46967-03

REV
P1

RCC DWG No: -

0 1 2 3 4m

REV	DATE	DESCRIPTION	TAF	LMS	LRP	APPROV
P1	31.10.17	PRELIMINARY ISSUE				

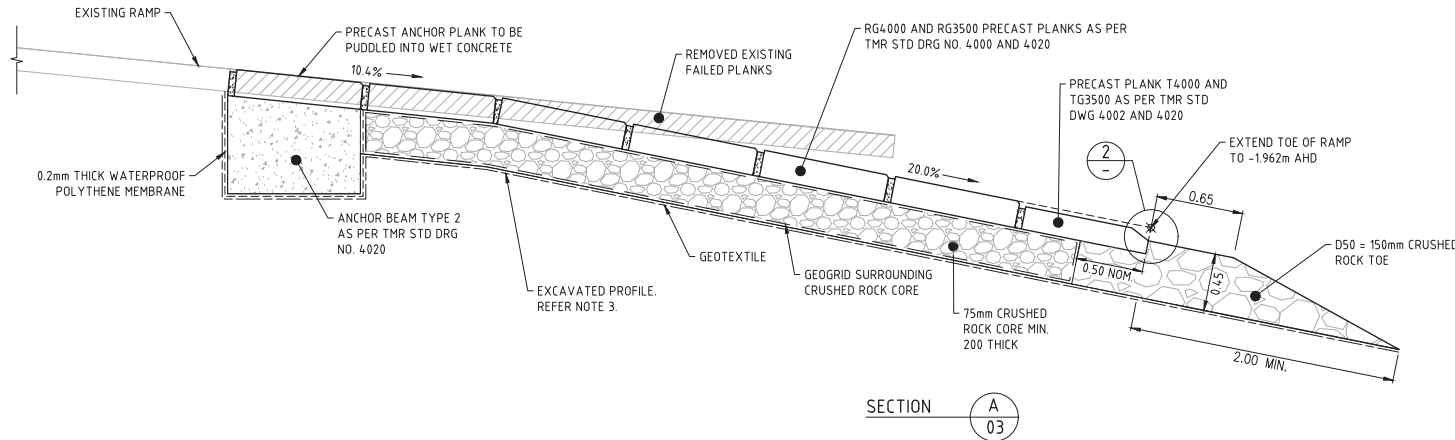


DATE SCALE
07/09/2017
1:500@A3
FILE# / RUN#
P1203020
JOB #
46967
SURVEYOR
J MCGRATH

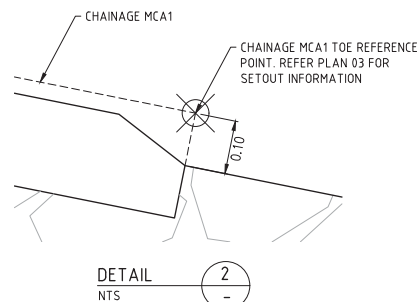
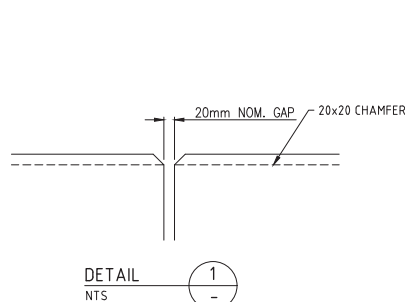
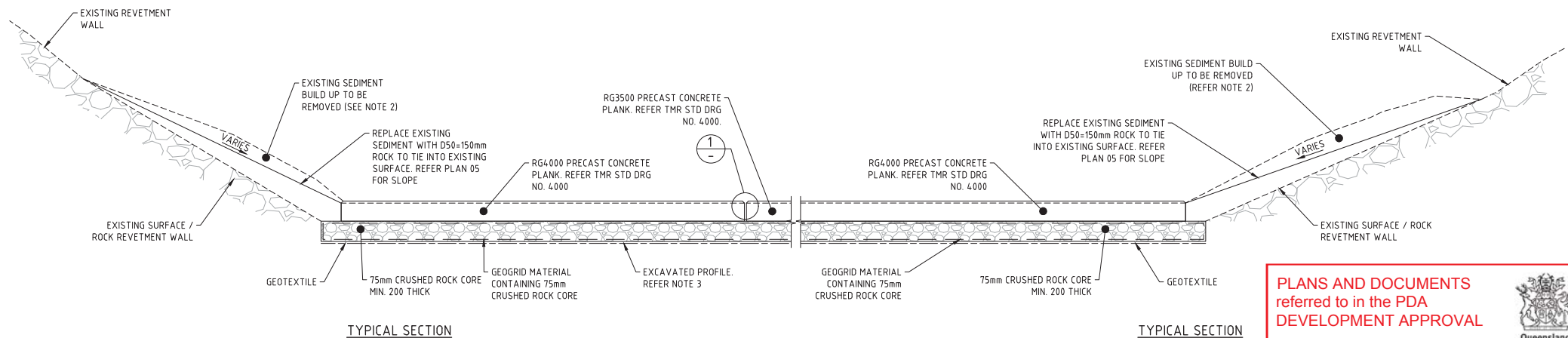
SURVEY OF REDLAND BAY WIENAM CREEK BARGE RAMP
P1203020 COMBINED WITH P1203019
FIELD BK
HORIZ DATUM
ORIGIN PSM
04/11
RCC
PSM113437
LEVEL BK
VERT DATUM
ORIGIN RL
01/11
AHD
1986

PROJECT: BANANA STREET, REDLAND BAY
BOAT RAMP UPGRADE
TITLE: GENERAL ARRANGEMENT PLAN
AND LONGITUDINAL SECTION

SHEET SIZE: A1
PLAN 3 OF 5



AHD	0.00m AHD
MLWS	-1.01m AHD
LAT	-1.41m AHD
TOE OF RAMP	-1.962m AHD



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2018/912

Date: 4 April 2018



NOTES:

1. REFER PLAN 02 FOR GENERAL NOTES AND LEGEND.
2. EXISTING SEDIMENT BUILD UP ON EXISTING RAMP SHALL BE REMOVED PRIOR TO UNDERTAKING EXCAVATION WORKS. IF REVELMENT WALL EXTENTS ARE AFFECTED BY SEDIMENT REMOVAL, THE STRUCTURAL INTEGRITY OF REVELMENT WALL MUST BE ASSESSED BY A EXPERIENCED GEOTECHNICAL ENGINEER PRIOR TO EXCAVATION WORKS.
3. THE SANDY SILT MATERIAL SHOULD BE REMOVED FROM THE BASE OF THE BOAT RAMP PRIOR TO ANY PLACEMENT OF ROCK OR FILL. ADDITIONALLY, WEAKENED CLAY LAYERS AFFECTED BY THE CURRENT RAMP SHOULD BE REMOVED AND INSPECTED BY A COMPETENT GEOTECHNICAL ENGINEER (RPEQ) PRIOR TO PLACEMENT OF ROCK/FILL OR GEOFABRIC.

PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

ENGINEERING CERTIFICATION
(Civil)

LFRSKE
RPED No. 15348

DESIGN SERVICES DWG
REV
46967-04 P1

RCC DWG No: -

0 0.2 0.4 0.6 0.8m

REV.	DATE	DESCRIPTION	TAF	LMS	LRP	APPROV
P1	31.10.17	PRELIMINARY ISSUE				



DATE
SCALE
FILE# / RUN#
JOB #
SURVEYOR

07/09/2017
1:500@A3
P1203020
46967
J MCGRATH

SURVEY OF REDLAND BAY WIENAM CREEK BARGE RAMP
P1203020 COMBINED WITH P1203019

FIELD BK
HORIZ DATUM
ORIGIN PSM

04/11
RCC
PSM113437

LEVEL BK
VERT DATUM
ORIGIN RL

01/11
AHD
1.986

PROJECT:

BANANA STREET, REDLAND BAY
BOAT RAMP UPGRADE

TITLE:

SECTIONS AND DETAILS

SHEET SIZE: A1

PLAN 4 OF 5

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2018/912
Date: 4 April 2018



CONTROL LINE MCA1
X = 30655.929
Y = 143751.421
Z = -0.960

Datum -2.00

DESIGN HEIGHT		0.250	-0.960	-0.960	-0.960	-0.960	-0.354
SUBGRADE HEIGHT		0.250	-1.360	-1.360	-1.360	-1.360	-0.354
EXISTING SURFACE		-10.056	-0.250	-0.886	-1.002	-0.835	-0.354
OFFSETS		-10.056	-7.500	0.000	7.500	8.711	

CHAINAGE 30.000

CONTROL LINE MCA1
X = 30655.414
Y = 143753.353
Z = -0.733

Datum -2.00

DESIGN HEIGHT		0.250	-0.733	-0.733	-0.733	-0.546
SUBGRADE HEIGHT		0.250	-1.133	-1.133	-1.133	-0.546
EXISTING SURFACE		-9.700	-0.250	-0.563	-0.762	-0.546
OFFSETS		-9.700	-7.500	0.000	7.500	7.874

CHAINAGE 28.000

CONTROL LINE MCA1
X = 30655.362
Y = 143753.546
Z = -0.712

Datum -2.00

DESIGN HEIGHT		0.250	-0.712	-0.712	-0.712	-0.599
SUBGRADE HEIGHT		0.250	-1.112	-1.112	-1.112	-0.599
EXISTING SURFACE		-9.654	-0.250	-0.544	-0.713	-0.599
OFFSETS		-9.654	-7.500	0.000	7.500	7.727

CHAINAGE 27.800

CONTROL LINE MCA1
X = 30657.165
Y = 143746.783
Z = -1.962

Datum -4.00

DESIGN HEIGHT		0.250	-1.962	-1.962	-1.962	-1.321
SUBGRADE HEIGHT		0.250	-2.362	-2.362	-2.362	-1.321
EXISTING SURFACE		-10.237	-0.250	-1.449	-2.172	-1.759
OFFSETS		-10.237	-7.500	0.000	7.500	8.782

CHAINAGE 34.800

CONTROL LINE MCA1
X = 30656.959
Y = 143747.556
Z = -1.760

Datum -4.00

DESIGN HEIGHT		0.250	-1.760	-1.760	-1.760	-0.813
SUBGRADE HEIGHT		0.250	-2.160	-2.160	-2.160	-0.813
EXISTING SURFACE		-10.543	-0.250	-1.319	-1.776	-1.334
OFFSETS		-10.543	-7.500	0.000	7.500	9.394

CHAINAGE 34.000

CONTROL LINE MCA1
X = 30656.444
Y = 143749.488
Z = -1.360

Datum -2.00

DESIGN HEIGHT		0.250	-1.360	-1.360	-1.360	-0.576
SUBGRADE HEIGHT		0.250	-1.760	-1.760	-1.760	-0.576
EXISTING SURFACE		-10.430	-0.250	-1.132	-1.188	-0.904
OFFSETS		-10.430	-7.500	0.000	7.500	9.069

CHAINAGE 32.000

NOTES:

1. REFER PLAN 02 FOR GENERAL NOTES AND LEGEND.

PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

ENGINEERING CERTIFICATION
(Civil)

LFRSKE
RPED No. 15348

DESIGN SERVICES DWG
46967-05

REV
P1

RCC DWG No: -

NOT TO SCALE

REV.	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED
P1	31.10.17	PRELIMINARY ISSUE	TAF	LMS	LRP	-



DATE
SCALE
FILE# / RUN#
JOB #
SURVEYOR

07/09/2017
1500@A3
P1203020
46967
J MCGRATH

SURVEY OF REDLAND BAY WIENAM CREEK BARGE RAMP
P1203020 COMBINED WITH P1203019

FIELD BK
HORIZ DATUM
ORIGIN PSM

04/11
RCC
PSM113437

LEVEL BK
VERT DATUM
ORIGIN RL

01/11
AHD
1.986

PROJECT:

BANANA STREET, REDLAND BAY
BOAT RAMP UPGRADE

TITLE:

CROSS SECTIONS

SHEET SIZE: A1

PLAN 5 OF 5