

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

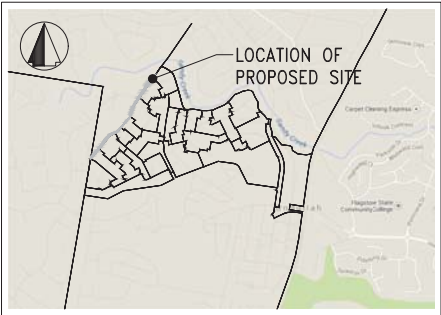


Approval no: DEV2018/949
Date: 21 August 2018

FLAGSTONE CITY

RESIDENTIAL ESTATE

STAGE 1 WEST EARTHWORKS – OP WORKS



LOCALITY PLAN
NOT TO SCALE

GENERAL NOTES:

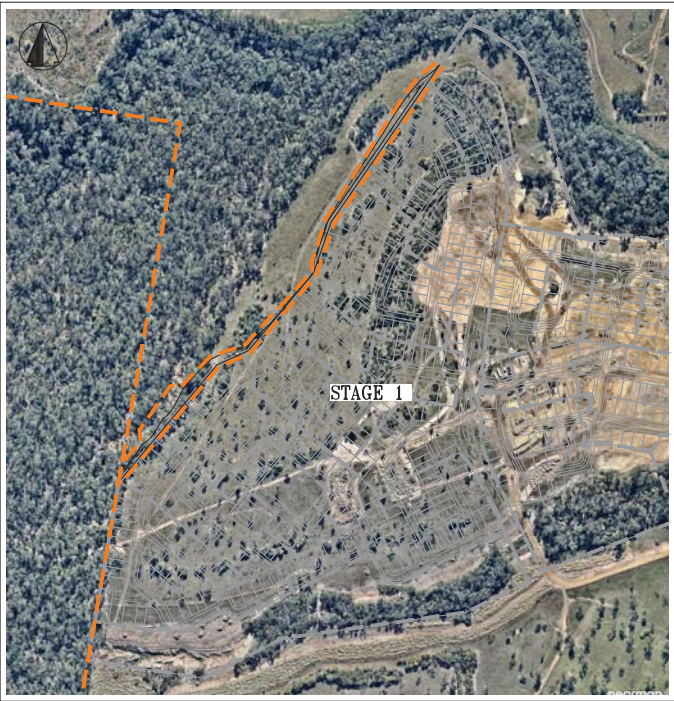
- ALL DIMENSIONS ON THE JOB ARE IN METRES UNLESS SHOWN OTHERWISE.
- THE CONTRACTOR IS TO MAKE THEMSELVES FULLY AWARE OF ALL EXISTING SERVICES PRIOR TO WORKS COMMENCING INCLUDING CONFIRMATION OF LOCATION AND LEVELS TO ENSURE DESIGN LEVELS AT CONNECTION POINTS ARE APPROPRIATE AND THAT POTENTIAL CONFLICT POINTS ARE AVOIDED.
- NOTWITHSTANDING THAT EXISTING SERVICES MAY BE SHOWN ON THE DRAWINGS OR REFERRED TO IN THE CONTRACT DOCUMENTS NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPAL FOR THIS INFORMATION. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL LIAISE DIRECTLY WITH THE APPROPRIATE LOCAL AUTHORITIES AND SHALL ASCERTAIN THE POSITION OF ALL SERVICES AND SHALL BE RESPONSIBLE FOR THE FULL COST OF REPAIRS OF ANY DAMAGE THERETO CAUSED BY THE CONTRACTOR'S OPERATIONS.
- ALL WORKS ARE TO BE CARRIED OUT TO L.C.C. AND SOUTH EAST QUEENSLAND (SEQ) WATER SUPPLY AND SEWERAGE CODE STANDARDS UNLESS OTHERWISE DIRECTED (IN WRITING).
- NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION. SIMILARLY, FINISHED SURFACE CONTOURS FOR ALLOTMENTS MAY BE ADJUSTED BY A WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION (REFER JOB SPECIFICATION).
- THE CONTRACTOR SHALL INITIALLY EXCAVATE THE PAVEMENT BOX TO THE MIN. DEPTHS NOMINATED ON THE DRAWINGS. HE SHALL THEN NOTIFY THE SUPERINTENDENT WHO WILL FIX THE PAVEMENT THICKNESS TO BE CONSTRUCTED FOLLOWING THE RESULTS OF SUBGRADE TESTING.
- ALL DRAINAGE PIPES SHALL BE CLASS '3' R.C. PIPES UNLESS SHOWN OTHERWISE. SALTWATER COVER WHERE PIPES BELOW RL 1.0.
- UNLESS SHOWN OTHERWISE, THE INVERT LEVELS SHOWN ON DRAINAGE LONGITUDINAL SECTIONS ARE LEVELS CALCULATED AT THE CENTRE OF MANHOLES. TO OBTAIN LEVELS ON DRAINLINES AT THE INSIDE FACE OF MANHOLES, THE CONTRACTOR SHALL MAKE ALLOWANCE FOR THE DIFFERENCE IN LEVEL CALCULATED AT SLOPE SHOWN ON DRAINLINE LONGITUDINAL SECTION FOR THE APPROPRIATE DISTANCE.
- THE LEVELS AND SLOPES SHOWN ON MANHOLE COVERS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL FINISH MANHOLE COVERS AND SURROUNDS TO SUIT THE SLOPE AND LEVEL OF THE FINISHED SURFACE AT THAT LOCATION UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- EACH ALLOTMENT CONTAINING AN INTER ALLOTMENT FIELD INLET PIT MUST HAVE A DIVERSION DRAIN SUFFICIENT TO DRAIN THE ENTIRE LOT TO THE FIELD INLET PIT.
- ALL SETTING OUT IS TO NOMINAL KERB LINE AND LEVELS ARE TO LIP OF CHANNEL OR FACE OF MEDIAN KERB UNLESS SHOWN OTHERWISE.
- WHERE WORK UNDER THIS CONTRACT ABUTS EXISTING ROADS THE KERB CONNECTIONS SHALL BE NEAT AND THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT PRIOR TO THE LAYING OF ASPHALT.
- KERB AND CHANNEL SHALL BE CONSTRUCTED TO THE TYPES SHOWN ON THE TYPICAL SECTIONS AND ALL KERB SHALL BE AS SHOWN ON THE JOB DRAWINGS AND IN ACCORDANCE WITH L.C.C. STANDARD DRAWINGS.
- THE CIVIL CONTRACTOR SHALL LIAISE WITH ELECTRICAL SUBCONTRACTOR TO ENSURE THAT STREET LIGHTS ARE LOCATED CLEAR OF WATER AND SEWER SERVICES.
- ALL FIELD INLETS AND ROOFWATER PITS WHICH SERVICE ALLOTMENTS SHALL HAVE A #150 uPVC SN8 STUB CAST INTO. GULLY PITS WHICH FRONT ALLOTMENTS AND PROVIDE A DRAINAGE CONNECTION POINT SHALL HAVE A 150mm uPVC ROOFWATER STUB CAST INTO.
- ANY WORK CONSTRUCTED OUTSIDE TOLERANCES WILL BE RECTIFIED AT CONTRACTORS EXPENSE IF ORDERED.
- ALL BATTERS BETWEEN 1:4 AND 1:6 ARE TO BE FULLY TURFED TO PREVENT SCOUR AND EROSION. ANY BATTERS BETWEEN 1:4 AND 1:3 TO BE HEAVILY LANDSCAPED. BATTERS STEEPER THAN 1:3 ARE UNDESIRABLE.
- THE LOCATION OF ALL STORMWATER OUTLETS ARE INDICATIVE ONLY AND MUST BE VERIFIED IN THE FIELD AND CONFIRMED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION OF DISCHARGE LINE AND OUTLET.
- DESIGN SAFETY:**
THIS DESIGN HAS BEEN REVIEWED INTERNALLY BY BRADLEES FOR DESIGN SAFETY IN ACCORDANCE WITH SECTIONS 22 AND 285 OF THE WORK HEALTH & SAFETY ACT 2011. ANY UNUSUAL OR ATYPICAL DESIGN FEATURES WHICH PRESENT HAZARDS AND RISKS DURING THE CONSTRUCTION PHASE THAT ARE UNIQUE TO THIS PARTICULAR DESIGN HAVE BEEN IDENTIFIED IN A WRITTEN REPORT PROVIDED TO THE PRINCIPAL. THE PRINCIPAL CONTRACTOR IS TO ENSURE HE OBTAINS A COPY OF THIS REPORT PRIOR TO TENDER SUBMISSION.
CONSTRUCTION SAFETY:
CONSTRUCTION SAFETY REMAINS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR, INCLUDING (BUT NOT LIMITED TO) SATISFACTORY SAFE WORK METHOD STATEMENTS, ALL REQUIREMENTS AND RESPONSIBILITIES UNDER THE WORK HEALTH AND SAFETY ACT 2011 QLD AND ALL APPROPRIATE DUTIES OF CARE.

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KEY PLAN
NOT TO SCALE



SITE LAYOUT
NOT TO SCALE

FIRE ANT NOTE:

UNDER QUEENSLAND LEGISLATION, FIRE ANTS ARE A NOTIFIABLE PEST AND SUSPECTED SIGHTING MUST BE REPORTED TO BIOSECURITY QUEENSLAND. MOVEMENT OF FIRE ANTS IS PROHIBITED UNLESS APPROVED OTHERWISE BY THE DEPARTMENT OF PRIMARY INDUSTRIES. THE CONTRACTOR SHALL ACQUIRE THE NECESSARY PERMITS TO COMPLETE THE WORKS.

LOCAL AUTHORITY: ECONOMIC DEVELOPMENT QUEENSLAND
DO FILE REF NO: DEV2012/402
SP DESCRIPTION: LOT 908 RP819216
PARISH/COUNTY: MACLEAN/UNDULLAH
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

REV	DESCRIPTION	BY	CHKD	DATE
A	ORIGINAL ISSUE	LH	JPH	18/03/18
B	UPDATED EARTHWORKS	LH	JPH	18/07/18



NAME Jason Harley
RPEQ 9665
Jason Harley
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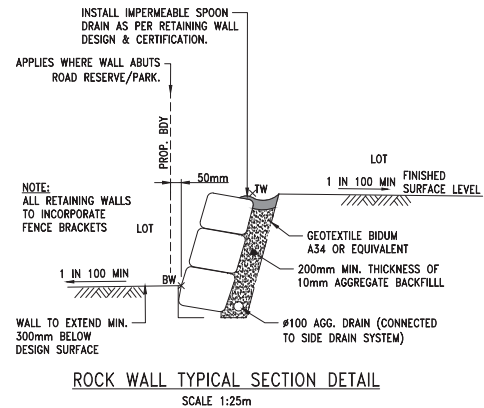


CLIENT
PEET FLAGSTONE CITY Pty. Ltd.
TITLE
DRAWING INDEX
& LOCALITY PLAN

PROJECT					
FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS OP WORKS ECONOMIC DEVELOPMENT QUEENSLAND					
STATUS					
APPROVAL NOT FOR CONSTRUCTION					
DESIGNED	DRAWN	APPROVED	DATE	SCALE @ AL	SHEET
NM	LH	JPH	08.02.18		1 of 1
PROJECT NO		DRAWING NO		REV	
118746		C1-S1WEST-CIL-800		B	

1. REFER DRAWING 001 FOR GENERAL NOTES.
2. ALL DESIGN LEVELS AND CONTOURS SHOWN ARE FINISHED SURFACE LEVELS AND INCLUDE A 150mm ALLOWANCE FOR TOPSOIL, EXCLUDING LOTS IN CUT WHERE TOPSOIL IS TO BE ON TOP OF INDICATED LEVELS.
3. ALL DIMENSIONS ON THE JOB ARE IN METRES UNLESS SHOWN OTHERWISE.
4. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION. SIMILARLY, FINISHED SURFACE CONTOURS FOR ALLOTMENTS MAY BE ADJUSTED BY A WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION (REFER JOB SPECIFICATION).
5. ALL STRUCTURAL FILL MATERIAL PLACED SHALL BE COMPACTED TO THE FOLLOWING MINIMUM DENSITY IN ACCORDANCE WITH THE PROJECT SPECIFICATION
: 65% DENSITY INDEX FOR NON-COHESIVE MATERIAL
: 95% FOR COHESIVE MATERIALS
6. THE CONTRACTOR IS TO ENSURE THAT NO PONDING OCCURS DURING CONSTRUCTION AND IN THE FINAL PROFILE.
7. SITE EARTHWORKS SHALL GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS 3798-2007.
8. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING EARTHWORKS AS DEFINED IN AS 3798-2007 SHALL BE REMOVED & REPLACED. THE SUPERINTENDENT SHALL BE NOTIFIED PRIOR TO EXCAVATING ANY UNSUITABLE MATERIAL.
9. SWALE INVERTS SHALL BE GRADED TO DRAIN FREELY TO ASSOCIATED FIELD INLETS, ALL SWALES ARE TO BE TOPSOILED AND TURFED
10. ALL BATTERS BETWEEN 1:4 & 1:6 ARE TO BE FULLY TURFED TO PREVENT SCOUR & EROSION. ANY BATTER 1:4 & 1:3 TO BE HEAVILY LANDSCAPED & ANY BATTERS STEEPER THAN 1:3 ARE UNDESIRABLE.
11. ALL EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH APPROVED VEGETATION MANAGEMENT PLANS AND APPROVALS.
12. REFER TO APPROVED VEGETATION MANAGEMENT PLANS PREPARED BY SAUNDERS HAVILL GROUP, FOR CLEARING STAGES AND PROCESS.
13. SWALE INVERTS SHALL BE GRADED TO DRAIN FREELY TO ASSOCIATED FIELD INLETS. ALL SWALES ARE TO BE TOPSOILED AND TURFED.
14. THE DISPERSIVE SOIL MANAGEMENT STRATEGY CONSISTS OF APPLYING A MINIMUM OF 500mm THICK FILL LAYER OF CEMELIORATED LIME CONSISTING OF A MINIMUM 10kg/m³ OF CRYSTALLINE GYPSUM.
15. CONTRACTOR MUST ENSURE THAT NO MORE THAN 35% OF THE SITE IS OPEN DURING BULK EARTHWORK OPERATIONS.

1. WALL ALIGNMENT IS TO BE PEGGED FOR INSPECTION BY SUPERINTENDENT PRIOR TO CONSTRUCTION.
2. WALLS TO BE VERTICAL FACE TYPE TO A MAXIMUM HEIGHT OF 2.5m. TYPE, FINISH AND COLOUR TO BE APPROVED BY SUPERINTENDENT.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING STRUCTURAL DESIGN, CONSTRUCTION SUPERVISION AND STRUCTURAL CERTIFICATION BY A SUITABLY QUALIFIED AND EXPERIENCED, REGISTERED STRUCTURAL ENGINEER (RPEQ) FOR ALL WALLS 1.0m HIGH OR GREATER.
4. WALL TO BE DESIGNED FOR A MINIMUM SERVICE LIFE OF 50 YEARS.
5. THE STANDARD BUILDING REGULATION 1993 REQUIRES THAT A BUILDING APPLICATION BE LODGED FOR EARTH RETAINING STRUCTURES >1000mm HIGH.
6. ALL WALLS TO BE DESIGNED BASED ON A GEOTECHNICAL ASSESSMENT OF INSITU SOILS BY A SUITABLY QUALIFIED ENGINEER
7. ALL COUNCIL RETAINING WALLS TO BE CONSTRUCTED IN THE ROAD RESERVE WHERE POSSIBLE.
8. PRIVATE WALLS INCLUDING FOOTING TO BE CONTAINED WHOLLY WITHIN PRIVATE PROPERTY AND ARE TO BE FULLY CONTAINED WITHIN THE LOWER LOT UNLESS WALL ABUTS ROAD RESERVE/PARK, IN WHICH CASE THE WALL SHALL BE CONTAINED WHOLLY WITHIN THE PRIVATE PROPERTY.
9. SUBSOIL DRAINAGE BEHIND ALL WALLS TO INCLUDE DISCHARGE PIPE INTO THE NEAREST STORMWATER STRUCTURE (OR DEDICATED KERB ADAPTOR) AND MUST BE FREE DRAINING. ALL WALL DRAINAGE LINES DISCHARGING THROUGH LOTS OR ROAD VERGE TO BE SOLID uPVC (NO SLOTS) AND MUST BE FREE DRAINING.
10. WALLS ARE TO BE CAPABLE OF SUPPORTING TWO STOREY "HEAVY CONSTRUCTION" BUILDINGS.
11. CONTRACTOR TO PROVIDE & MAINTAIN SAFETY FENCE TO ALL WALLS GREATER THAN 1.0m IN HEIGHT.
12. A MINIMUM 600mm CLEARANCE IS TO BE MAINTAINED BETWEEN THE OUTSIDE OF THE BORED PIERS AND THE OUTSIDE OF ANY SEWER MAIN OR ROOFWATER PIPE IN THE VICINITY OF THE RETAINING WALL.
13. RETAINING WALL DESIGN AND CONSTRUCTION TO CONSIDER AND CATER FOR ALL SERVICES LOCATED UNDER, OR IN THE VICINITY OF, THE RETAINING WALL.
14. ALL WALLS TO BE DESIGNED TO ALLOW FOR 1.8m HIGH ENCLOSED FENCE.



LOCAL AUTHORITY: ECONOMIC DEVELOPMENT QUEENSLAND
 IDQ FILE REF NO: DEV2012/402
 RP DESCRIPTION: LOT 908 RP819216
 PARISH/COUNTY: MACLEAN/UNDULLAH
 ORIGIN: PM107142 (RL39.078)
 HORIZONTAL DATUM: MGA

MANUSCRIPT TO BE REVIEWED



1. REFER DWG 804 FOR EARTHWORKS
NOTES & DETAILS.

15 FINISHED SURFACE CONTOURS

12 EXISTING SURFACE CONTOURS

NOMINAL KERB LINE

TOP OF BATTER

TOE OF BATTER

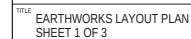
RETAINING WALL LOCATION

LANDSCAPE WALL LOCATION

STAGE BOUNDARY



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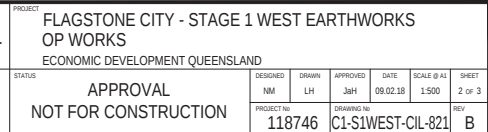
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 IDQ FILE REF NO: DEV2012/402
 RP DESCRIPTION: LOT 908 RP819216
 PARISH/COUNTY: MACLEAN/UNDULLAH
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 HORIZONTAL DATUM: MGA

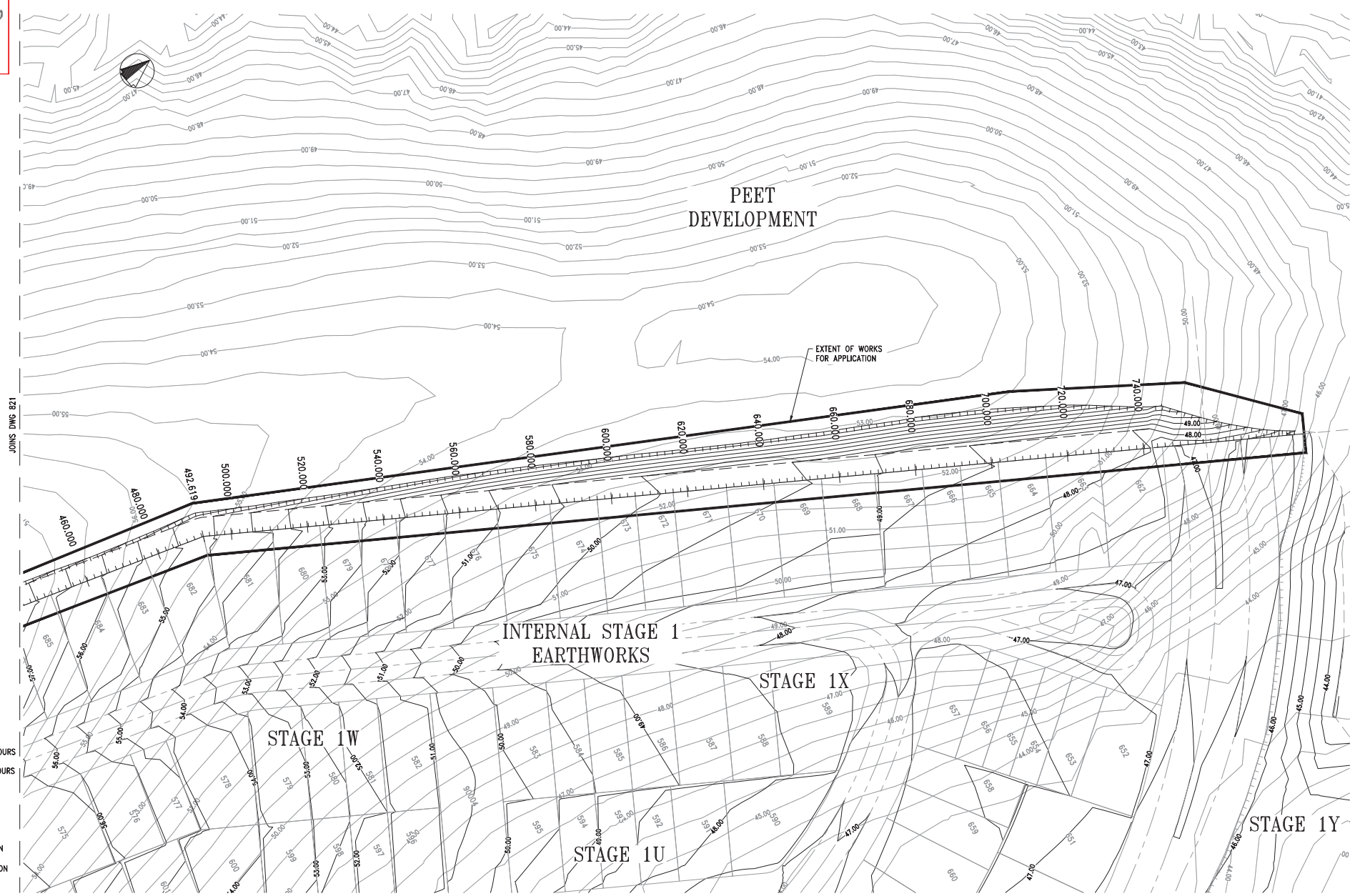
PROJECT
FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS
OP WORKS
ECONOMIC DEVELOPMENT QUEENSLAND

STATUS

APPROVAL
NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
NM	LH	JaH	09.02.18	1:500	1 of 3
PROJECT No		DRAWING No			REV
118746		C1-S1WEST-CIL-820			B





NOTES

1. REFER DWG 804 FOR EARTHWORKS NOTES & DETAILS.

LEGEND

- 15 FINISHED SURFACE CONTOURS
- 12 EXISTING SURFACE CONTOURS
- NOMINAL KERB LINE
- TOP OF BATTER
- TOE OF BATTER
- RETAINING WALL LOCATION
- LANDSCAPE WALL LOCATION
- STAGE BOUNDARY
- TREE TO BE RETAINED - REFER SAUNDERS HAVIL VMP

FIRE ANT NOTE:

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LOCAL AUTHORITY: ECONOMIC DEVELOPMENT QUEENSLAND

DO FILE REF NO: DEV2012/402

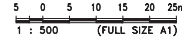
SP DESCRIPTION: LOT 908 RP819216

PARISH/COUNTY: MACLEAN/UNDULLAH

ORIGIN: PM107142 (RL39.078)

HORIZONTAL DATUM: MGA

REV	DESCRIPTION	BY	CHKD	DATE
A	ORIGINAL ISSUE	LH	JAH	18.02.18
B	UPDATED EARTHWORKS	LH	JAH	18.07.18



NAME Jason Harley
RPEQ 5665

Jason Harley

Approved by, for and on behalf of Meinhardt

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CLIENT
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TITLE
EARTHWORKS LAYOUT PLAN
SHEET 3 OF 3

PROJECT
FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS OP WORKS
ECONOMIC DEVELOPMENT QUEENSLAND

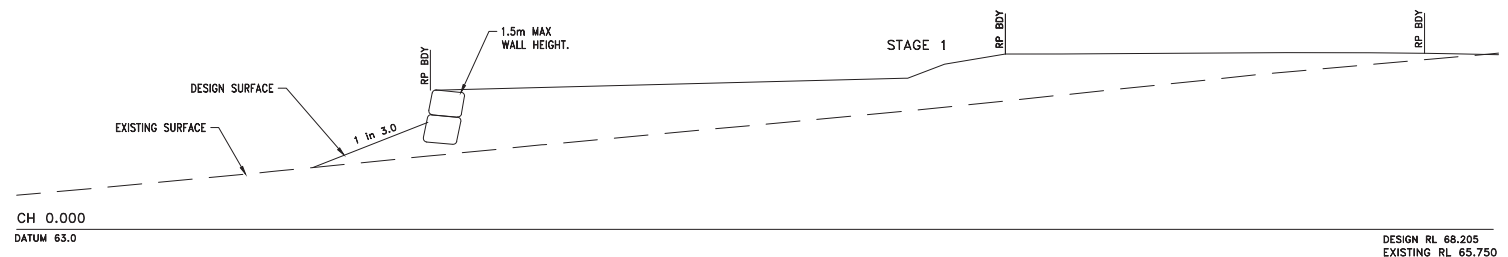
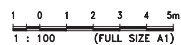
STATUS
APPROVAL
NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
NM	LH	JAH	08.02.18	1:500	3 of 3

PROJECT NO
118746

DRAWING NO
C1-S1WEST-CIL-822

REV
B

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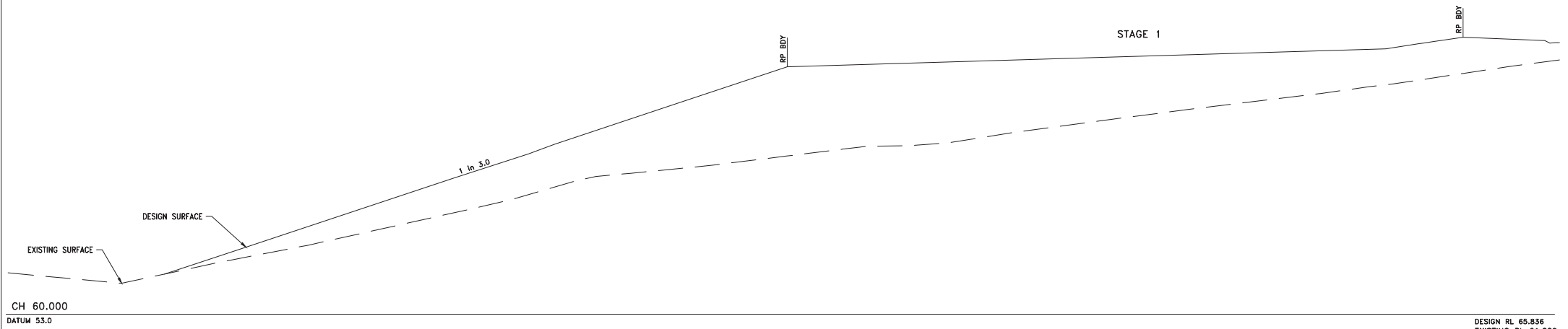
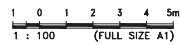


TITLE	EARTHWORKS SECTIONS SHEET 1 OF 11
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STATUS

APPROVAL
NOT FOR CONSTRUCTION

DESIGNED NM	DRAWN LH	APPROVED JaiH	DATE 09.02.18	SCALE @ A1 1:100	SHEET 1 of 11
PROJECT No 118746		DRAWING No C1-S1WEST-CIL-830			REV A

[illegible]

NAME Jason Harley
RPEQ 5665



Jason Harley

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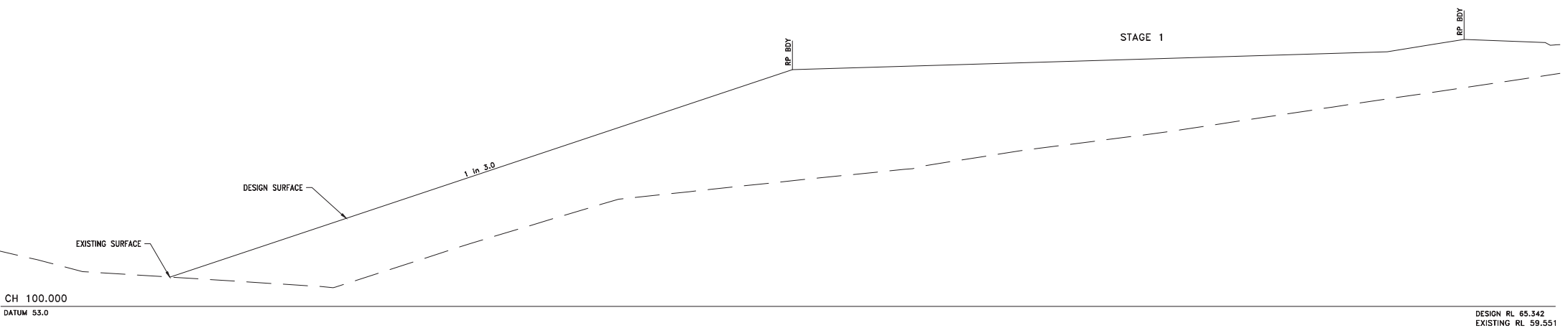


CLIENT	PEET FLAGSTONE CITY Pty. Ltd.
TITLE	EARTHWORKS SECTIONS SHEET 2 OF 11

PROJECT					
FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS OP WORKS ECONOMIC DEVELOPMENT QUEENSLAND					
STATUS	APPROVAL				
	NOT FOR CONSTRUCTION				
	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ AL
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	PROJECT NO.		DRAWING NO.		
	118746		C1-S1WEST-CIL-831		

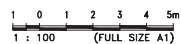
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DATUM 51.0

DESIGN RL 65.18
EXISTING RL 59.252



CH 100.000
DATUM 53.0

DESIGN RL 65.342
EXISTING RL 59.551

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RPEQ 5665

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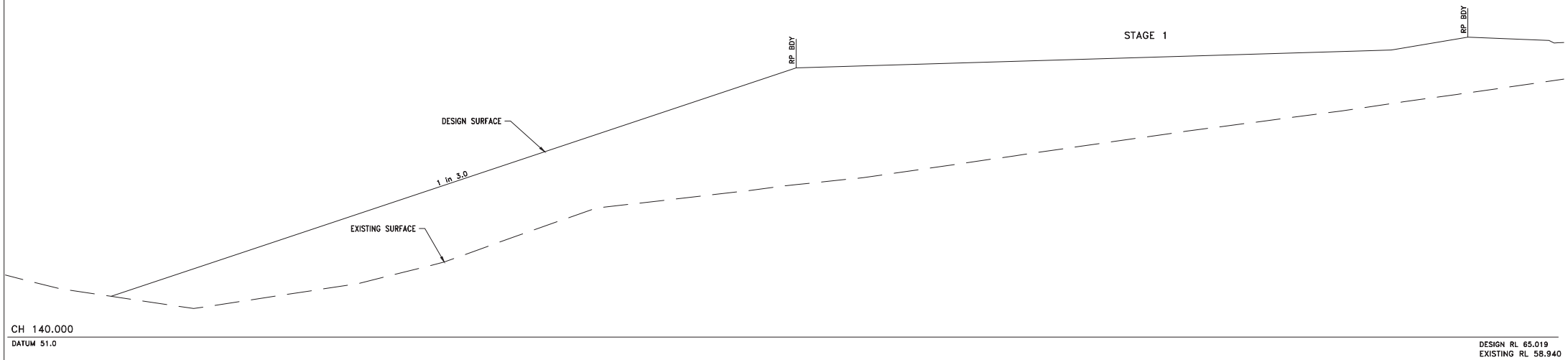
TITLE	EARTHWORKS SECTIONS SHEET 3 OF 11
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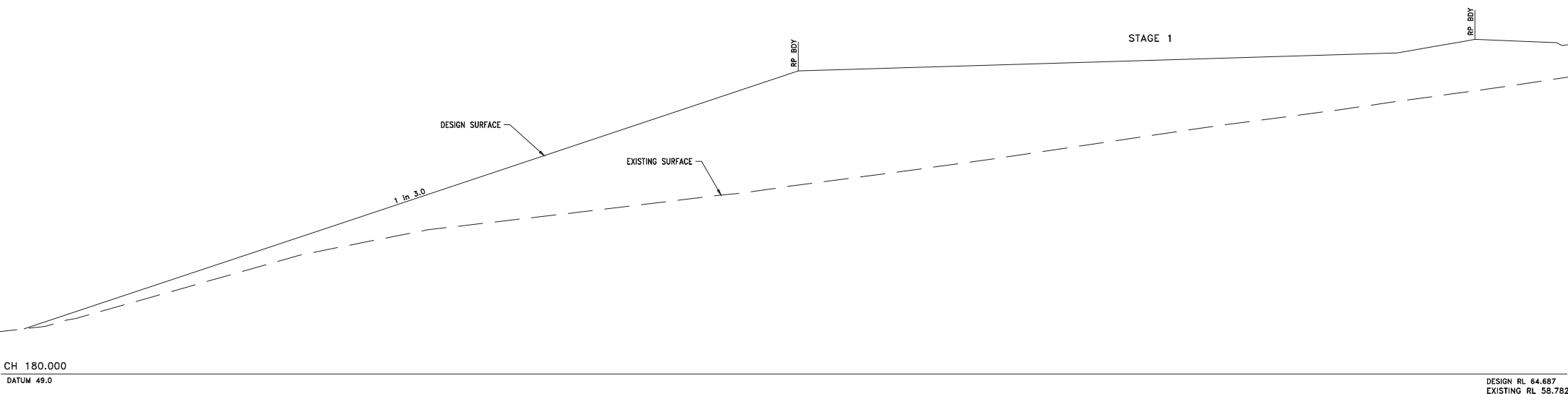
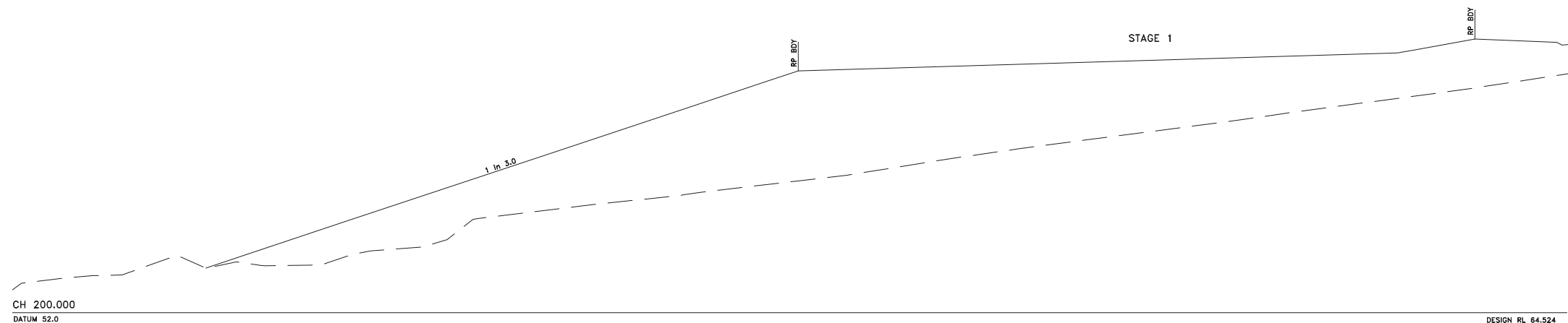
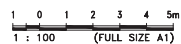
PROJECT
FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS
OP WORKS
ECONOMIC DEVELOPMENT QUEENSLAND

STATUS

APPROVAL
NOT FOR CONSTRUCTION

DESIGNED NM	DRAWN LH	APPROVED JaH	DATE 09.02.18	SCALE @ A1 1:100	SHEET 3 OF 1
PROJECT No 118746		DRAWING No C1-S1WEST-CIL-832			REV A

[illegible]

[illegible]

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Queensland Surveying Pty Ltd t/a Veris

NAME Jason H
RPEO 5665

Jason Harley



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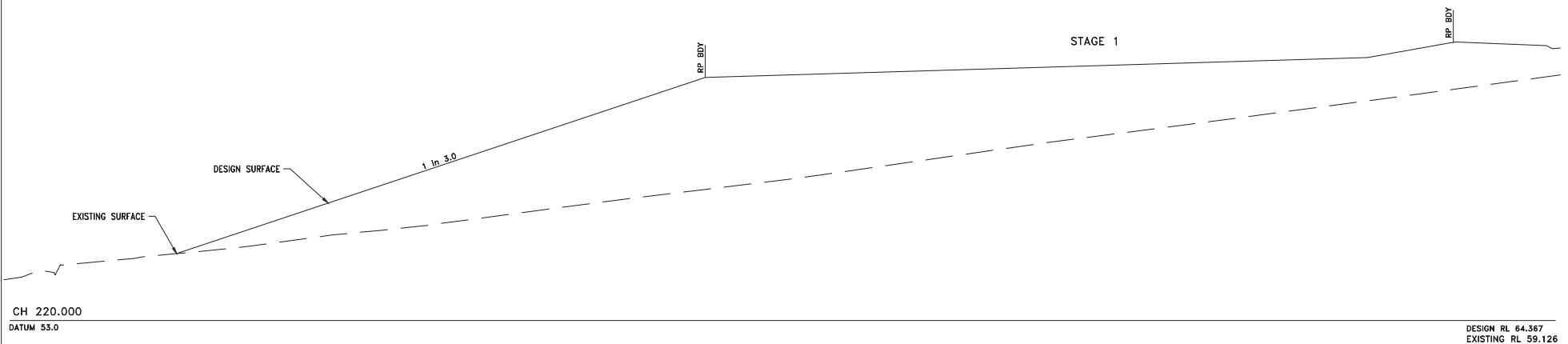
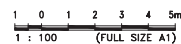
PEET FLAGSTONE CITY Pty. Ltd.

TITLE	EARTHWORKS SECTIONS SHEET 5 OF 11
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PROJECT FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS
OP WORKS
ECONOMIC DEVELOPMENT QUEENSLAND

STATUS	APPROVAL NOT FOR CONSTRUCTION
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DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
NM	LH	JaH	09.02.18	1:100	5 OF 11
PROJECT No		DRAWING No			REV
118746		C1-S1WEST-CIL-834			A

[illegible]

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NAME Jason Harley
RPEQ 5665

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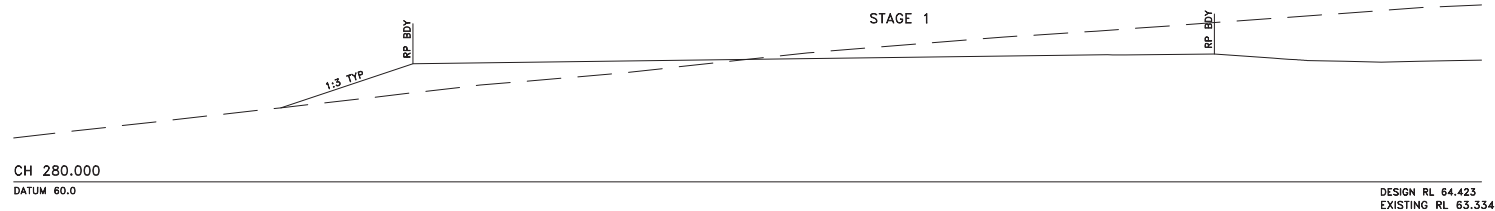
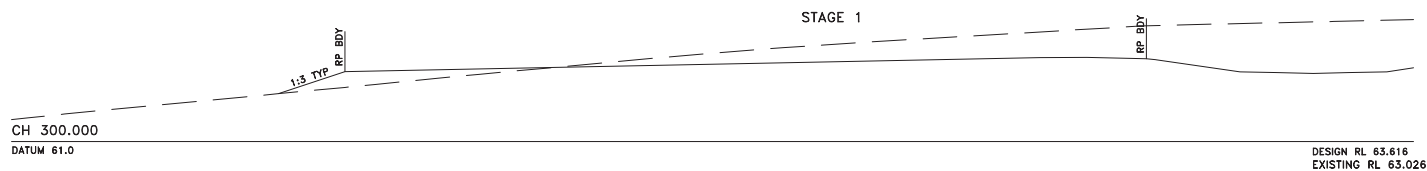
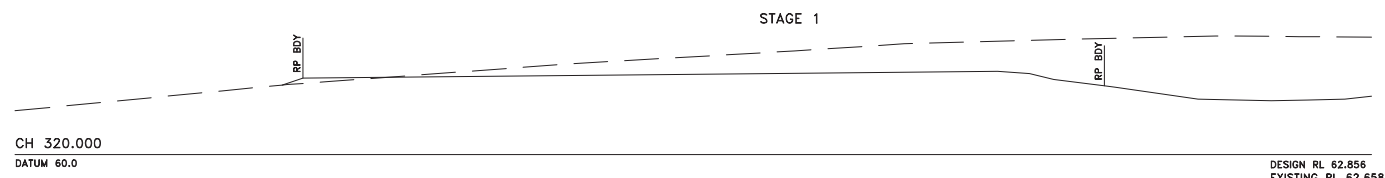
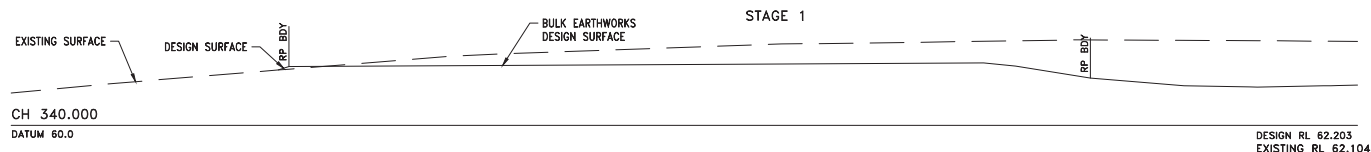
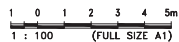
TITLE	EARTHWORKS SECTIONS SHEET 6 OF 11
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PROJECT	FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS OP WORKS ECONOMIC DEVELOPMENT QUEENSLAND
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STATUS	APPROVAL NOT FOR CONSTRUCTION
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DESIGNED NM	DRAWN LH	APPROVED JaH	DATE 09.02.18	SCALE @ A1 1:100	SHEET 6 of 11
PROJECT No 118746		DRAWING No C1-S1WEST-CIL-835			REV A

Approval no: DEV2018/949
Date: 21 August 2018

[illegible]

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NAME Jason Harley
RPEO 5665

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TITLE	EARTHWORKS SECTIONS SHEET 7 OF 11
-------	--------------------------------------

PROJECT	FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS OP WORKS ECONOMIC DEVELOPMENT QUEENSLAND
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STATUS	APPROVAL NOT FOR CONSTRUCTION
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DESIGNED NM	DRAWN LH	APPROVED JaH	DATE 09.02.18	SCALE @ A1 1:100	SHEET 7 OF 1
PROJECT No 118746		DRAWING No C1-S1WEST-CIL-836			REV A

Queensland
Government

CH 460.000
 DATUM 53.0

5.0
 1.0%
 RP BDY

STAGE 1

RP BDY

DESIGN RL 56.345
 EXISTING RL 56.432

STAGE 1

CH 440,000

DATUM 54.0

EXISTING RL 57.469

DESIGN RL 57.319

STAGE 1

1.0%

RP BDY

CH 420.000

DATUM 55.0

DESIGN RL 58.294
EXISTING RL 58.465

CH 400.000

DATUM 57.0

STAGE 1

RP

BDY

RP

BDY

EXISTING RL 59.647

DESIGN RL 59.71

CH 380.000

DATUM 58.0

STAGE 1

RP B'DY

DESIGN RL 60.844

EXISTING RL 60.404

CH 360.000

DATUM 59.0

STAGE 1

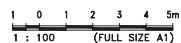
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RP BDY

RP BDY

DESIGN RL 61.81

EXISTING RL 61.349

[illegible]

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RPEQ 5665

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TITLE	EARTHWORKS SECTIONS SHEET 8 OF 11
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PROJECT	FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS OP WORKS ECONOMIC DEVELOPMENT QUEENSLAND
---------	---

STATUS

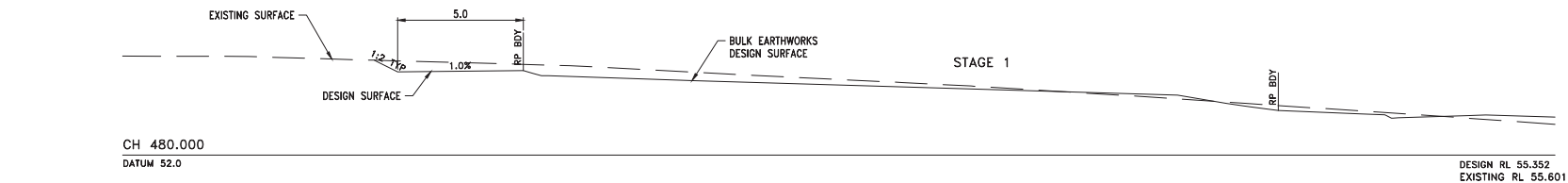
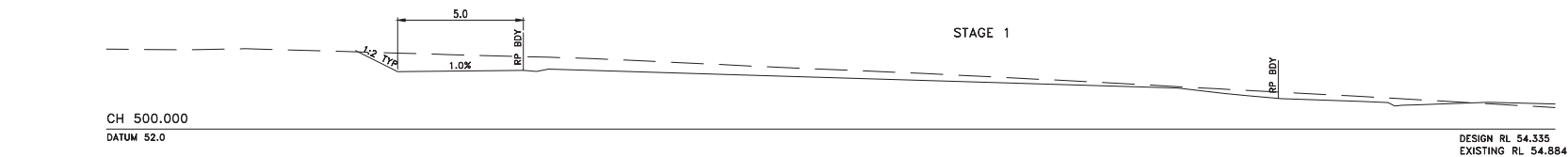
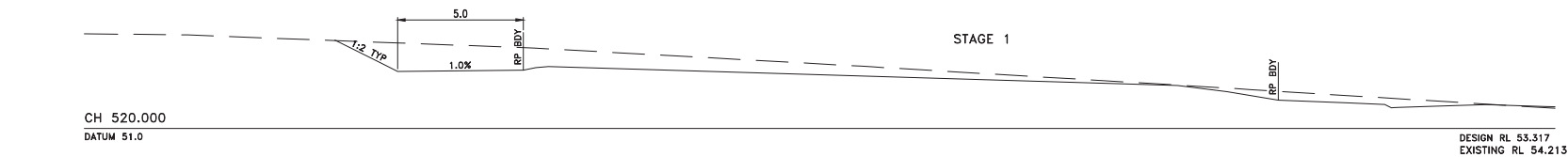
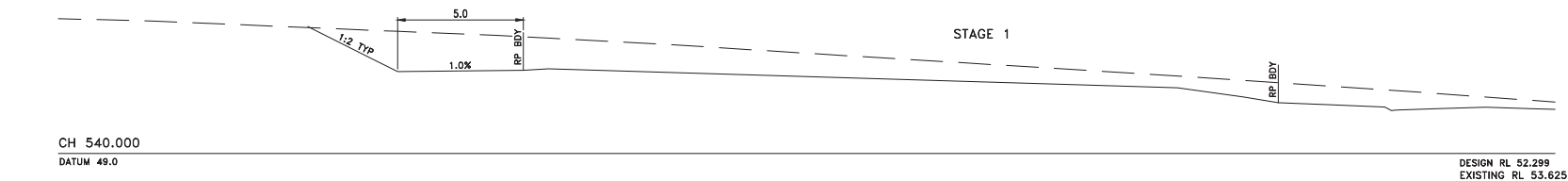
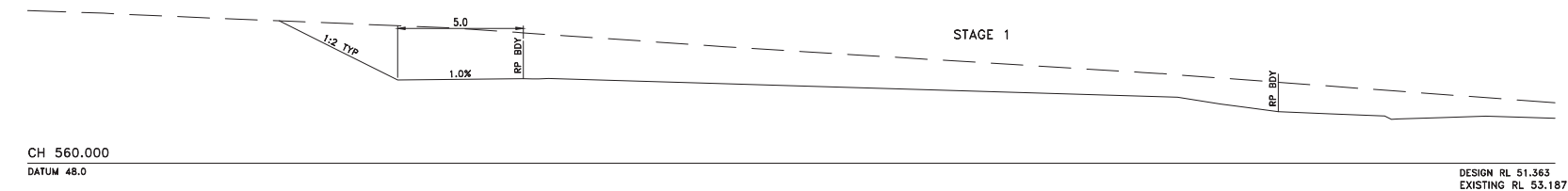
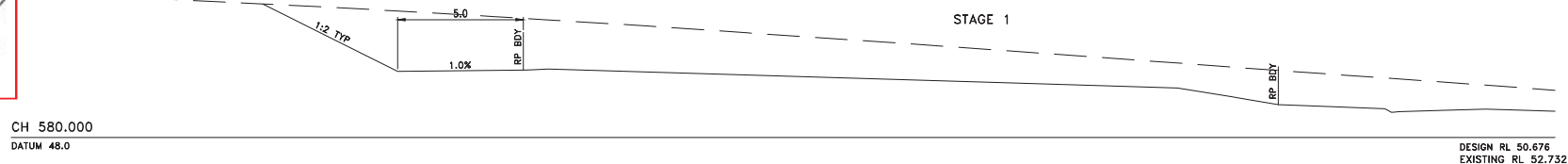
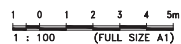
APPROVAL
NOT FOR CONSTRUCTION

DESIGNED NM	DRAWN LH	APPROVED JaH	DATE 09.02.18	SCALE @ A1 1:100	SHEET 8 OF 11
PROJECT No 118746		DRAWING No C1-S1WEST-CIL-837			REV A



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Approval no: DEV2018/949
Date: 21 August 2018

[illegible]

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RPEQ 5665

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Professional Engineer
Engineering Council of New Zealand
Registration Number 5665
Engineering Council of New Zealand
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Tel: 09 308 9000
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Email: jason.harley@ecnz.org.nz

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TITLE	EARTHWORKS SECTIONS SHEET 9 OF 11
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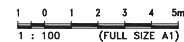
PROJECT	FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS OP WORKS ECONOMIC DEVELOPMENT QUEENSLAND
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APPROVAL
NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
NM	LH	JaH	09.02.18	1:100	9 of 11
PROJECT No		DRAWING No			REV
118746		C1-S1WEST-CIL-838			A

11	
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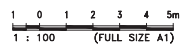
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PROJECT FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS
OP WORKS
ECONOMIC DEVELOPMENT QUEENSLAND

STATUS APPROVAL NOT FOR CONSTRUCTION	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
	NM	LH	JaH	09.02.18	1:100	10 of 11
PROJECT No		DRAWING No		REV		
118746		C1-S1WEST-CIL-839		A		

Queensland
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Date: 21 August 2018

[illegible]

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TITLE	EARTHWORKS SECTIONS SHEET 11 OF 11
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PROJECT	FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS
d.	OP WORKS
	ECONOMIC DEVELOPMENT QUEENSLAND

STATUS	APPROVAL NOT FOR CONSTRUCTION
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DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
NM	LH	JaH	09.02.18	1:100	11 of 11
PROJECT No 118746		DRAWING No C1-S1WEST-CIL-840			REV A



- NOTES:**
1. ALL FENCING AND SILT FENCING TO BE INSTALLED PRIOR TO PRE-START MEETING.
 2. THE CONTRACTOR SHALL PROVIDE AN EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL BY SUPERINTENDENT PRIOR TO POSSESSION OF SITE BEING GRANTED.

THE CONTRACTOR MUST INFORM THEMSELVES OF AND COMPLY WITH THE "STATE PLANNING POLICY FOR HEALTHY WATERS".

- LEGEND**
- 12 — EXISTING SURFACE CONTOURS
 - - - - - NOMINAL KERB LINE
 - SEDIMENT FENCE
 - STAGE BOUNDARY
 - + TREES TO BE RETAINED

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2018/949
Date: 21 August 2018



FIRE ANT NOTE:
UNDER QUEENSLAND LEGISLATION, FIRE ANTS ARE A NOTIFIABLE PEST AND SUSPECTED SIGHTING MUST BE REPORTED TO BIOSECURITY QUEENSLAND. MOVEMENT OF FIRE ANTS IS PROHIBITED UNLESS APPROVED OTHERWISE BY THE DEPARTMENT OF PRIMARY INDUSTRIES. THE CONTRACTOR SHALL ACQUIRE THE NECESSARY PERMITS TO COMPLETE THE WORKS.

LOCAL AUTHORITY: ECONOMIC DEVELOPMENT QUEENSLAND
DO FILE REF NO: DEV2012/402
PP DESCRIPTION: LOT 908 RP819216
PARISH/COUNTY: MACLEAN/UNDULLAH
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

REV	DESCRIPTION	BY	CHKD	DATE
A	ORIGINAL ISSUE	LH	JPH	18.02.18
B	UPDATED EARTHWORKS	LH	JPH	18.07.18

10 0 10 20 30 40 50m
1 : 1000 (FULL SIZE A1)

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BRISBANE PROSPERITY
MACKAY CARRIVE
1001 1001 1001
www.veris.com.au
1001 1001 1001
Queensland Surveying Pty Ltd is Veris

NAME Jason Harley
RPEQ 5665

Jason Harley

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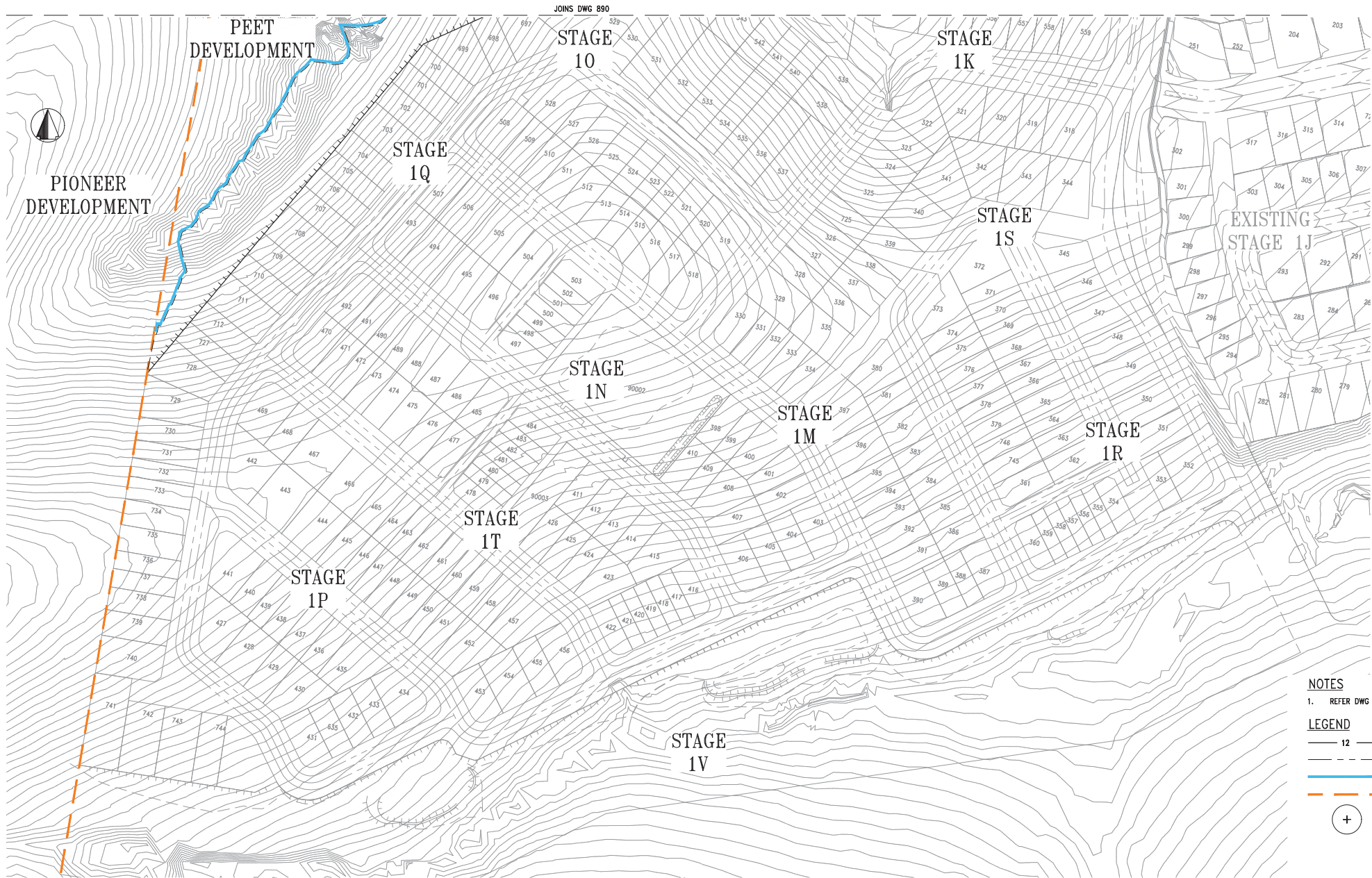
TITLE
EROSION/SEDIMENT CONTROL
MANAGEMENT PLAN
PHASE 1
SHEET 1 OF 2

PROJECT
FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS
OP WORKS
ECONOMIC DEVELOPMENT QUEENSLAND

STATUS
APPROVAL
NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
NM	LH	JPH	08.02.18	1:1000	1 of 2

PROJECT NO	DRAWING NO	REV
118746	C1-S1WEST-CIL-890	B



NOTES

1. REFER DWG 890 FOR ESC NOTES.

LEGEND

- 12 FINISHED SURFACE CONTOURS
- NOMINAL KERB LINE
- SEDIMENT FENCE
- STAGE BOUNDARY
- Trees to be Retained

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2018/949
Date: 21 August 2018



FIRE ANT NOTE:

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LOCAL AUTHORITY: ECONOMIC DEVELOPMENT QUEENSLAND
DO FILE REF NO: DEV2012/402
IP DESCRIPTION: LOT 908 RP819216
PARISH/COUNTY: MACLEAN/UNDULLAH
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

REV	DESCRIPTION	BY	CHK	DATE
A	ORIGINAL ISSUE			

10 0 10 20 30 40 50m
1 : 1000 (FULL SIZE A1)



NAME Jason Harley
RPEQ 5665
Jason Harley

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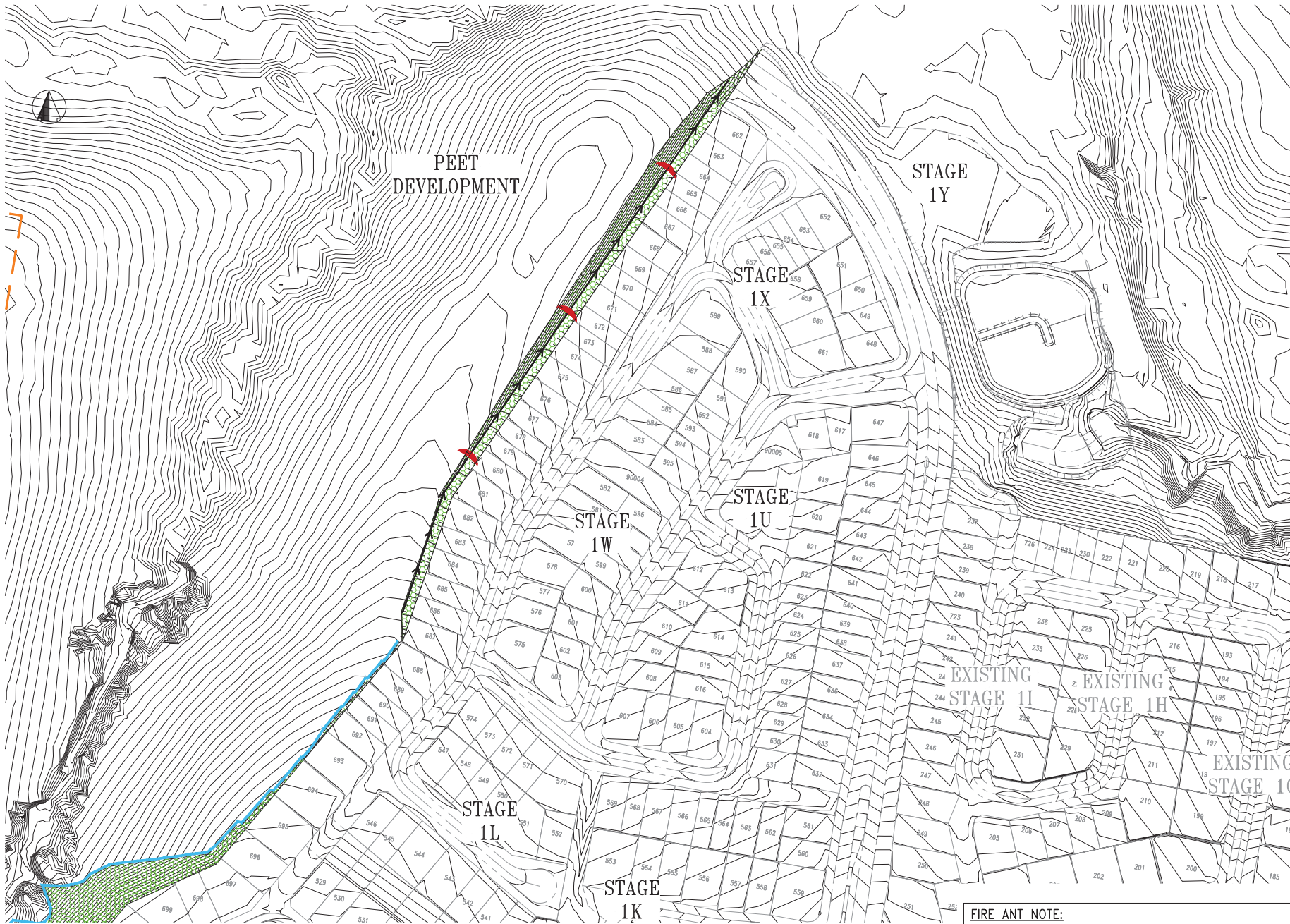
CLIENT
PEET FLAGSTONE CITY Pty. Ltd.

TITLE
EROSION/SEDIMENT CONTROL
MANAGEMENT PLAN
PHASE 1
SHEET 2 OF 2

PROJECT
FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS
OP WORKS
ECONOMIC DEVELOPMENT QUEENSLAND

STATUS
APPROVAL
NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
NM	LH	Jah	09.02.18	1:1000	2 OF 2
PROJECT NO	DRAWING NO	REV			
118746	C1-S1WEST-CIL-891	A			



- NOTES:**
1. THE MEASURES SHOWN ON THIS PLAN ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CARRY OUT ALL WORKS IN ACCORDANCE WITH THE CONTRACTORS SEDIMENT AND EROSION CONTROL PLAN. ALL RESPONSIBILITY FOR SEDIMENT AND EROSION CONTROL IS DELEGATED TO THE CONTRACTOR BY THE APPLICANT AND THE LAND OWNERS UNTIL THE ON MAINTENANCE INSPECTION.
 2. THE CONTRACTOR AT A MINIMUM IS TO COMPLY WITH HEALTHY WATERWAYS "CONTROLLING STORMWATER POLLUTION ON YOUR BUILDING SITE" AND ALL ASSOCIATED DOCUMENTATION AND CHECKLISTS.
 3. REFER ES&C DETAILS & NOTES DRAWING FOR GENERAL NOTES.

THE CONTRACTOR MUST INFORM THEMSELVES OF AND COMPLY WITH THE "STATE PLANNING POLICY FOR HEALTHY WATERS".

LEGEND

- 12 — FINISHED SURFACE CONTOURS
- — — NOMINAL KERB LINE
- — — SEDIMENT FENCE
- — — DIVERSION DRAIN
- — — STAGE BOUNDARY
- ⊕ TREES TO BE RETAINED
- — — ROCK CHECK DAM. REFER IPWEAQ STD DRG. DS-041.
- — — HYDROMULCH

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2018/949
Date: 21 August 2018



FIRE ANT NOTE:

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LOCAL AUTHORITY: ECONOMIC DEVELOPMENT QUEENSLAND
DO FILE REF NO: DEV2012/402
PP DESCRIPTION: LOT 908 RP819216
PARISH/COUNTY: MACLEAN/UNDULLAH
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

REV	DESCRIPTION	BY	CHKD	DATE
A	ORIGINAL ISSUE	LH	JAH	18.02.18
B	UPDATED EARTHWORKS	LH	JAH	18.07.18

10 0 10 20 30 40 50m
1 : 1000 (FULL SIZE A1)



NAME Jason Harley
RPEQ 3665
Jason Harley
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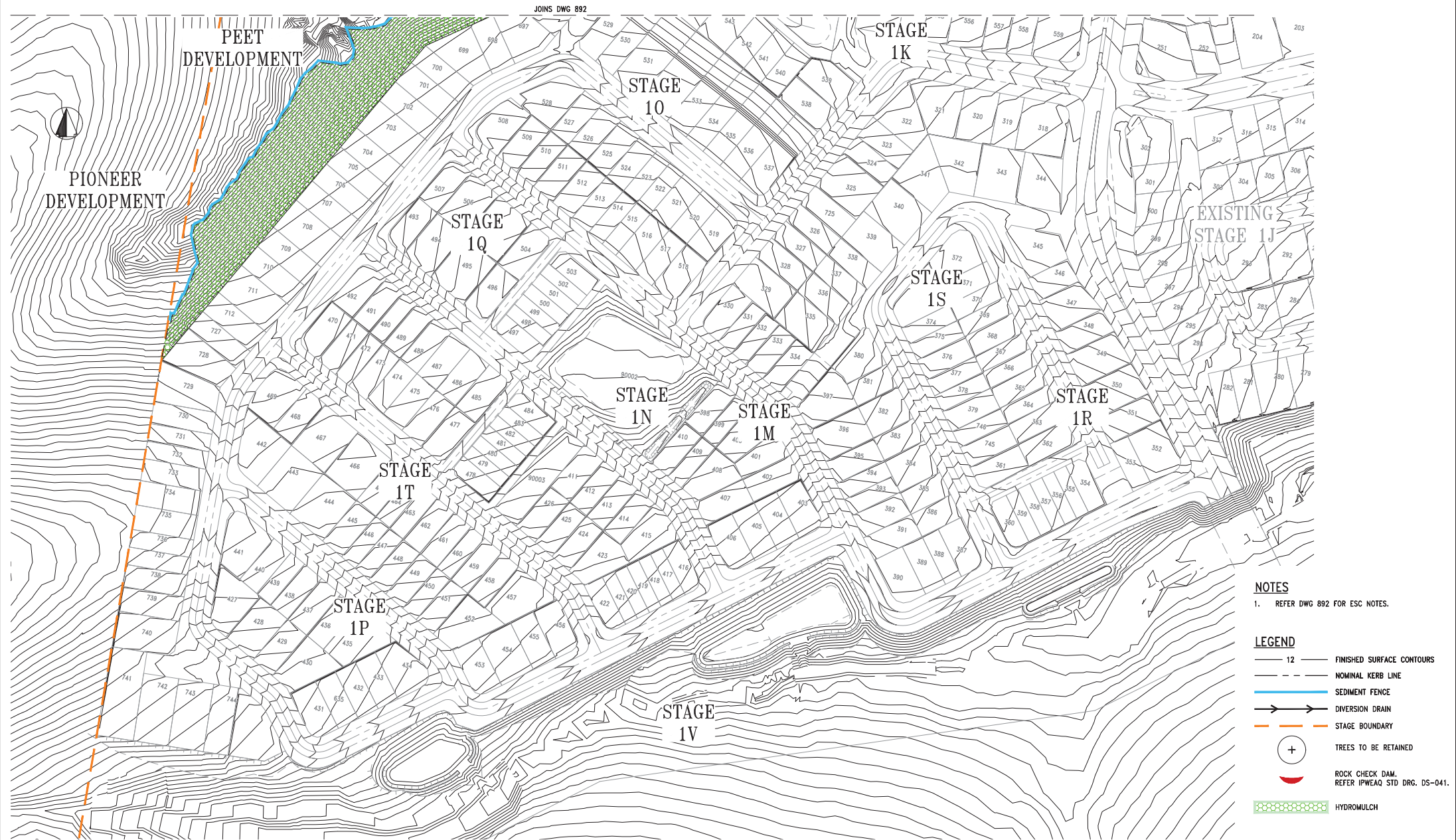


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PROJECT
PEET FLAGSTONE CITY Pty. Ltd.
TITLE
EROSION/SEDIMENT CONTROL
MANAGEMENT PLAN
PHASE 2
SHEET 1 OF 2

PROJECT
FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS
OP WORKS
ECONOMIC DEVELOPMENT QUEENSLAND
STATUS
APPROVAL
NOT FOR CONSTRUCTION
DESIGNED
LH
DRAWN
JAH
APPROVED
DATE
08.02.18
SCALE @ A1
1:1000
REV
1 OF 2
PROJECT NO
118746
DRAWING NO
C1-S1WEST-CIL-892
REV
B



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2018/949

Date: 21 August 2018



FIRE ANT NOTE:

UNDER QUEENSLAND LEGISLATION, FIRE ANTS ARE A NOTIFIABLE PEST AND SUSPECTED SIGHTING MUST BE REPORTED TO BIOSECURITY QUEENSLAND. MOVEMENT OF FIRE ANTS IS PROHIBITED UNLESS APPROVED OTHERWISE BY THE DEPARTMENT OF PRIMARY INDUSTRIES. THE CONTRACTOR SHALL ACQUIRE THE NECESSARY PERMITS TO COMPLETE THE WORKS.

LOCAL AUTHORITY: ECONOMIC DEVELOPMENT QUEENSLAND

DO FILE REF NO: DEV2012/402

SP DESCRIPTION: LOT 908 RP819216

PARISH/COUNTY: MACLEAN/UNDULLAH

ORIGIN: PM107142 (RL39.078)

HORIZONTAL DATUM: MGA

REV	DESCRIPTION	BY	CHK	DATE
A	ORIGINAL ISSUE			08.02.18

10 0 10 20 30 40 50m

1 : 1000 (FULL SIZE A1)



NAME Jason Harley
RPEQ 3665

Jason Harley

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CLIENT

PEET FLAGSTONE CITY Pty. Ltd.

TITLE

EROSION/SEDIMENT CONTROL MANAGEMENT PLAN

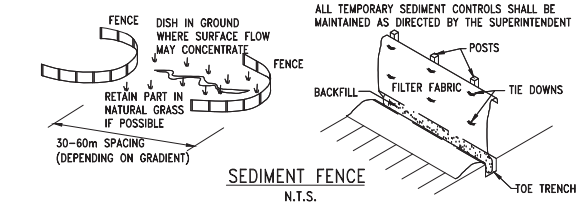
PHASE 2

SHEET 2 OF 2

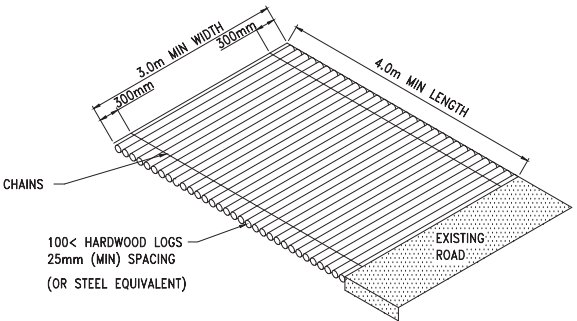
PROJECT		FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS OP WORKS		ECONOMIC DEVELOPMENT QUEENSLAND	
STATUS		APPROVAL		NOT FOR CONSTRUCTION	
DESIGNED	DRAWN	APPROVED	DATE	SCALE	SHEET
NM	LH	Jah	09.02.18	1:1000	2 OF 2
PROJECT NO		DRAWING NO		REV	
118746		C1-S1WEST-CIL-893		A	

GENERAL NOTES:

1. THE MEASURES SHOWN ON THE ESC PLANS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CARRY OUT ALL WORKS IN ACCORDANCE WITH THE CONTRACTORS SEDIMENT AND EROSION CONTROL PLAN. ALL RESPONSIBILITY FOR SEDIMENT AND EROSION CONTROL IS DELEGATED TO THE CONTRACTOR BY THE APPLICANT AND THE LAND OWNERS UNTIL THE ON MAINTENANCE INSPECTION.
2. THE CONTRACTOR AT A MINIMUM IS TO COMPLY WITH HEALTHY WATERWAYS "CONTROLLING STORMWATER POLLUTION ON YOUR BUILDING SITE" AND ALL ASSOCIATED DOCUMENTATION AND CHECKLISTS. SEDIMENT CONTROLS ARE NOT TO BE REMOVED PRIOR TO SATISFACTORY ESTABLISHMENT OF GROUND COVER/Written DIRECTION FROM THE SUPERINTENDENT.
2. ALL FENCING AND SILT FENCING TO BE INSTALLED PRIOR TO PRE-START MEETING.
3. THE CONTRACTOR SHALL PROVIDE AN EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL BY SUPERINTENDENT PRIOR TO POSSESSION OF SITE BEING GRANTED.
4. ALL COARSE SEDIMENTS ARE TO BE TREATED AND SHALL NOT ENTER THE DOWNSTREAM INFRASTRUCTURE. THE TARGET FOR THIS IS 50mg/L OF SUSPENDED SOLIDS 90% OF THE TIME.
5. ALL FINE SEDIMENTS (DISPERSIVE SOILS) ARE TO BE TREATED IN TEMPORARY BASINS ON SITE. THE CONTRACTOR MUST TREAT AND RELEASE THE WATER AT COUNCIL STANDARDS, AS SOON AS POSSIBLE AFTER EACH EVENT.
6. ONCE HYDRO MULCH IS DEEMED TO BE SUFFICIENTLY ESTABLISHED, SILT FENCES CAN BE REMOVED IF INSTRUCTED BY THE PRINCIPAL.



THE CONTRACTOR MUST INFORM THEMSELVES OF AND COMPLY WITH THE "STATE PLANNING POLICY FOR HEALTHY WATERS".



PHASING NOTES:

PHASE 1 - PRIOR TO PRE-START
THE CONTRACTOR WILL BE PAID FOR SCHEDULED QUANTITIES FOR THIS PHASE

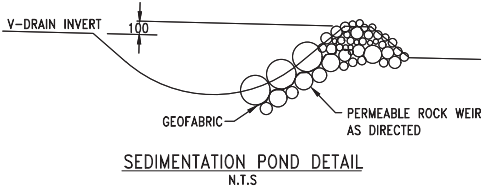
PHASE 2 - DURING CONSTRUCTION
THIS PHASE IS TO BE IN ACCORDANCE WITH THE CONTRACTOR'S SEDIMENT AND EROSION CONTROL PLAN. THE CONTRACTOR IS TO ENGAGE A STORMWATER QUALITY CONSULTANT TO UNDERTAKE STORMWATER QUALITY AND EVENT MONITORING DURING THE "CONSTRUCTION" PHASE, INCLUDING BUT NOT LIMITED TO REMEDIAL ACTION FOLLOWING EVENT MONITORING RESULTS.

THE MONTHLY ALLOWANCE IN THE SCHEDULE WILL NOT BE CLAIMABLE IF TESTS SHOW A RELEASE OF GREATER THAN 50mg/L OF SUSPENDED SOLIDS AND THE RAIN EVENTS DO NOT EXCEED 75TH PERCENTILE OF A 5 DAY EVENT (ON THIS SITE 40mm OVER 5 DAYS). ALL OTHER COSTINGS NOT SCHEDULED ARE DEEMED INCLUDED.

PHASE 3 - PRACTICAL COMPLETION INSPECTION
THE CONTRACTOR IS TO ENGAGE A STORMWATER QUALITY CONSULTANT TO UNDERTAKE STORMWATER QUALITY AND EVENT MONITORING DURING THE "MAINTENANCE" PHASE, INCLUDING BUT NOT LIMITED TO REMEDIAL ACTION FOLLOWING EVENT MONITORING RESULTS.

THE CONTRACTOR WILL BE PAID FOR SCHEDULED QUANTITIES FOR THIS PHASE.

SHAKE-DOWN AREA
N.T.S.



STOCKPILE NOTES:

1. ALL STOCKPILES MUST BE SURROUNDED BY A SILT FENCE.
2. STOCKPILES MUST BE COVERED, IF NECESSARY, TO PREVENT DUST OR CONTAMINATION OF WATERS.

STABILISATION NOTES:

1. TOP SOIL AND SEED MUST BE PLACED ON COMPLETED AREAS WITHIN 7 DAYS OF THAT AREA BEING COMPLETED.
2. HYDROMULCHING MAY BE ORDERED BY THE SUPERINTENDENT.
3. ALL BATTERS GREATER THAN 1 IN 4 TO BE MULCHED WITH ONSITE MULCH.
4. 90% STRIKE MUST OCCUR WITHIN 4 WEEKS. AFTER THIS PERIOD RE-SEEDING MAY BE ORDERED AT THE CONTRACTOR'S COST.

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2018/949
Date: 21 August 2018



FIRE ANT NOTE:

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LOCAL AUTHORITY: ECONOMIC DEVELOPMENT QUEENSLAND
DO FILE REF NO: DEV2012/402
P DESCRIPTION: LOT 908 RP819216
PARISH/COUNTY: MACLEAN/UNDULLAH
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

REV	DESCRIPTION	BY	CHKD	DATE
A	ORIGINAL ISSUE	LH	JAH	18.02.18
B	UPDATED EARTHWORKS	LH	JAH	18.07.18



NAME Jason Harley
RPEQ 9565
Jason Harley
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CLIENT
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TITLE
EROSION/SEDIMENT CONTROL
MANAGEMENT PLAN
NOTES AND DETAILS

PROJECT FLAGSTONE CITY - STAGE 1 WEST EARTHWORKS OP WORKS ECONOMIC DEVELOPMENT QUEENSLAND				
STATUS APPROVAL NOT FOR CONSTRUCTION				
DESIGNED	DRAWN	APPROVED	DATE	SCALE @ AL
NM	LH	JAH	08.02.18	1 of 1
PROJECT NO 118746		DRAWING NO C1-S1WEST-CIL-894		REV B