

1. THIS REPORT SUMMARISES AN INTERNAL REVIEW OF BRADLEES DETAILED DESIGN DRAWINGS FOR DESIGN SAFETY ONLY. THIS REPORT IN NO WAY RELIEVES THE PRINCIPAL, PCBU, CONTRACTOR OR ANY OTHER PARTY OF THEIR OWN OBLIGATIONS AND RESPONSIBILITIES UNDER THE WORK HEALTH AND SAFETY ACT 2011 QLD, INCLUDING (BUT NOT LIMITED TO) CONSULTATION WITH DESIGNER (BRADLEES) UNDER SECTION 294 OF THE ACT, SATISFACTORY SAFE WORK METHOD STATEMENTS AND DUTIES OF CARE.
2. THE RISK ASSESSMENT (HIGH, MEDIUM OR LOW) HAVE BEEN DETERMINED USING THE 3X3 RISK MATRIX (REF SECTION 4.1 OF BRADLEES QMS MANUAL). IF THE RESIDUAL RISK (AFTER DESIGN CONTROLS HAVE BEEN IMPLEMENTED) REMAINS HIGH, DO NOT PROCEED.
3. IT IS A REQUIREMENT UNDER SECTION 296 OF THE WORK HEALTH AND SAFETY ACT 2011 QLD THAT A COPY OF THIS REPORT BE PROVIDED TO THE CONTRACTOR BY THE ENTITY COMMISSIONING THE WORK SHOWN ON THE BRADLEES DRAWINGS.
4. AS PER THE DEPARTMENT OF JUSTICE AND ATTORNEY-GENERAL, WORKPLACE HEALTH AND SAFETY QUEENSLAND, A WHITE REPORT IS NOT REQUIRED FOR DESIGNS THAT HAVE TYPICAL FEATURES. REFER [HTTP://WWW.DCIR.QLD.GOV.AU/WORKPLACE/INDUSTRY/CONSTRUCTION/DESIGNERS/](http://www.dcir.qld.gov.au/WORKPLACE/INDUSTRY/CONSTRUCTION/DESIGNERS/) FOR FURTHER INFORMATION.
5. THE CONTRACTOR IS TO ENSURE THAT THEIR SITE-SPECIFIC WORKS MANAGEMENT PLAN AND SITE-SPECIFIC SWMS HAVE APPROPRIATE PROVISIONS TO DEAL WITH UXOS (UNEXPLODED ORDNANCE) IN THE EVENT THAT ANY FINDS ARE FOUND ONSITE.
6. TABLE 1: DESIGN CHANGES MADE, UP TO/BEFORE ISSUE OF THE 'FOR CONSTRUCT' DRAWING SET ARE TO HAVE THEIR HAZARDS ASSESSED AND RECORDED IN TABLE 1 (NOT IN TABLE 2)
7. TABLE 2: WHERE DRAWING CHANGES MADE AFTER ISSUE OF THE 'FOR CONSTRUCT' SET DO NOT INTRODUCE NEW/ADDITIONAL HAZARDS, RECORD THE HAND WRITTEN INITIALS OF THE DESIGNER IN THE 'SIDR' (SAFETY IN DESIGN REVIEW) COLUMN IN THE 'REVISIONS' SECTION OF THE DRAWING TITLE BLOCK AND DETAILS OF THE HAZARDS AND RISK ASSESSMENT ARE TO BE RECORDED IN TABLE 2 ABOVE. HOWEVER, WHERE DRAWING CHANGES MADE AFTER ISSUE OF THE 'FOR CONSTRUCT' SET DO NOT INTRODUCE NEW/ADDITIONAL HAZARDS, SIMPLY RECORD THE HAND WRITTEN INITIALS OF THE DESIGNER IN THE 'SIDR' (SAFETY IN DESIGN REVIEW) COLUMN IN THE 'REVISIONS' SECTION OF THE DRAWING TITLE BLOCK – AS EVIDENCE THAT THE HAZARD ANALYSIS HAS BEEN UNDERTAKEN AND NO NEW HAZARDS HAVE BEEN INTRODUCED AS A RESULT OF THE DESIGN CHANGE/S.

HAS THE PRINCIPAL/ PCBU CONSULTED WITH BRADLEES REGARDING POTENTIAL HAZARDS AND RISKS AT THE ABOVE STAGE PRIOR TO THE ISSUE OF THE BRADLEES DESIGN DRAWINGS? (IN ACCORDANCE WITH SECTION 294 OF THE ACT) NOTE THE PRINCIPAL/ PBCU IS REQUIRED TO FORWARD ANY INFORMATION IT HAS TO THE DESIGNER IN RELATION TO POTENTIAL HAZARDS AND RISKS AT THE SUBJECT WORKPLACE.	☒ YES	☐ NO
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TABLE 1 – DESIGN HAZARDS IDENTIFIED UP TO/ BEFORE ISSUE OF THE "FOR CONSTRUCT" DRAWING SET (NOTE 6 REFERS).

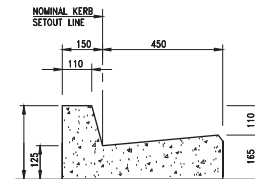
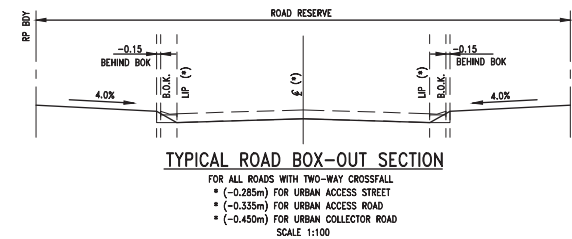
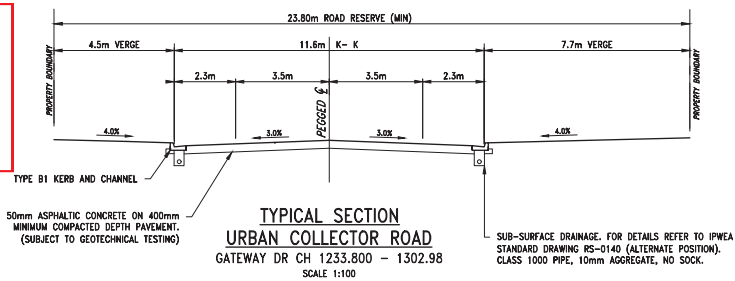
HAZARD/ RISK	HAS A HAZARD/ RISK BEEN IDENTIFIED IN THIS DESIGN?	CAN THE DESIGN BE MODIFIED TO ELIMINATE THE HAZARD/ RISK?	IF Y, DESIGN SAFETY HAZARD/ RISK RATING (WITHOUT CONTROLS)	DESIGN CONTROLS TO MITIGATE THE HAZARD/ RISK	IF Y, DESIGN SAFETY RESIDUAL HAZARD/ RISK RATING (WITH CONTROLS)
EXISTING SERVICES EXISTING SERVICES ARE LOCATED WITHIN THE WORKS SITE AND HAZARDS EXIST WITH WORKS LOCATED IN THE PROXIMITY OF THESE SERVICES.	☒ YES ☐ NO	☐ YES ☒ NO	☒ HIGH ☐ MED ☐ LOW	CONTRACTOR IS TO TAKE APPROPRIATE MEASURES TO LOCATE ALL EXISTING SERVICES LOCATED ON SITE. CONTRACTOR SHALL TAKE DUE CARE TO AVOID DAMAGE TO EXISTING SERVICES FOR ALL WORKS LOCATED IN THE VICINITY OF THE SERVICES.	☐ HIGH ☒ MED ☐ LOW
CONSTRAINED AND DEEP EXCAVATION/ TRENCHING > 1.5m DEEP WORKS INVOLVE DEEP EXCAVATION AND TRENCHING.	☒ YES ☐ NO	☐ YES ☒ NO	☒ HIGH ☐ MED ☐ LOW	CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE AUSTRALIAN AND LOCAL AUTHORITY STANDARDS FOR DEEP EXCAVATION AND WILL EMPLOY APPROPRIATE SAFE WORK METHODOLOGIES. CONTRACTOR SHALL SEEK GEOTECHNICAL ADVICE REGARDING ANY DEEP EXCAVATION AND TRENCHING FOR THE WORKS.	☐ HIGH ☒ MED ☐ LOW
SOILS & BATTERS WORKS ARE EXPECTED TO DISTURB DISPERSIVE SOILS LOCATED ACROSS THE MAJORITY OF THE SITE.	☒ YES ☐ NO	☐ YES ☒ NO	☒ HIGH ☐ MED ☐ LOW	CONTRACTOR TO SEEK GEOTECHNICAL ADVICE REGARDING EXISTING DISPERSIVE SOILS LOCATED ON SITE AND THEIR NECESSARY TREATMENT AND CONSIDERATION DURING CONSTRUCTION.	☐ HIGH ☒ MED ☐ LOW
WORKING IN TRAFFIC WORKS ARE ADJACENT TO GATEWAY DRIVE.	☒ YES ☐ NO	☒ YES ☐ NO	☐ HIGH ☒ MED ☐ LOW	WORKS SITE HAS BEEN EXTENDED 15m FURTHER TO THE NORTH TO GET CONSTRUCTION ACTIVITY AWAY FROM TRAFFIC.	☐ HIGH ☐ MED ☒ LOW



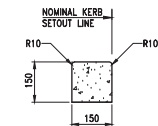
Queensland
Government

LOCAL AUTHORITY: EDQ FILE REF NO: DEV2012/403
RP DESCRIPTION: LOT 2 SP3030389, 908 SP195799,
910 RP857850, 911 SP303089
PARISH/COUNTY: MACLEAN/UNDULLAH
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

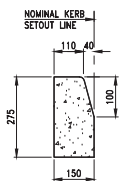
DESCRIPTION					BY	SDR	DATE	NAME: Jason Harley RPEQ: 5665					 Meinhardt Urban Pty Ltd A.B.N. 29 064 259 125 Brisbane - Level 2, 135 William Terrace, Spring Hill QLD 4000 Gold Coast - Level 3, 34 Thomas Drive, Chevron Island QLD 4217 Sunshine Coast - 8 Pike Street, Maroochydore QLD 4558 Postal PO Box 2293, Souderton QLD 4215 T + 61 7 5529 6411 F +61 7 5529 6422 info@meinhardtgroup.com http://www.meinhardtgroup.com © Copyright					CLIENT PEET FLAGSTONE CITY Pty. Ltd.		PROJECT FLAGSTONE CITY - STAGE 1 TEMPORARY BUS TURNAROUND ECONOMIC DEVELOPMENT QUEENSLAND				
A	ORIGINAL ISSUE				30	31	15.08.13	 BRISBANE 075 554 0040 MACKAY 075 554 0040 GOLD COAST 075 554 0040 SUNSHINE COAST 075 554 0040 Queensland Surveying Pty Ltd is a Subsidiary of Meinhardt Group Pty Ltd					This drawing has been produced for the exclusive use of the client (nominated on this document). No third party is to rely on this document without written permission from Meinhardt. This drawing is not to be constructed from unless "issued for construction" is displayed and only where signed by an RPEQ. © Copyright					TITLE SAFETY IN DESIGN		STATUS APPROVAL NOT FOR CONSTRUCTION				
															DESIGNED NM		DRAWN SW		APPROVED JH		DATE 15.08.13		SCALE & AL 1 : 1 or 1	
															PROJECT NO. 14-771		DRAWING NO. C1-S1BUS-002		REV 001		SHEET A			



TYPICAL SECTION (B1)
BARRIER KERB & CHANNEL
REFER TO IPWEA STANDARD DRAWING RS-081
SCALE 1 : 10



TYPICAL SECTION (ER1)
EDGE RESTRAINT
REFER TO IPWEA STANDARD DRAWING RS-080
SCALE 1:10



TYPICAL SECTION (B2)
BARRIER KERB ONLY
REFER TO IPWEAQ STD DWG SEQ R-080
SCALE 1 : 10

- ### LEGEND
- | | |
|---|--------------------------------------|
|  | FINISHED SURFACE CONTOURS |
|  | NOMINAL KERB LINE |
|  | EXISTING STORMWATER DRAIN |
|  | STORMWATER DRAIN MANHOLE 4 ON LINE 1 |
|  | FUTURE STORMWATER |
|  | SWALE DRAIN |
|  | LOG BARRIER SETOUT |
|  | GROUTED ROCK PITCHED |
|  | TURF |

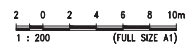
ROADWORKS & DRAINAGE NOTES

1. REFER DRAWING 001 FOR GENERAL NOTES.
2. SIDE DRAINS ARE TO BE CONSTRUCTED UNDER ALL KERB AND, KERB AND CHANNEL, UNLESS NOTED OTHERWISE.
3. PROVIDE SIDE DRAINS AND FLUSHING POINTS TO ALL CENTER ISLANDS IN ACCORDANCE WITH IPWEA STANDARD DRAWING RS-140.
4. LOG BARRIER FENCING IN ACCORDANCE WITH IPWEA STANDARD DRAWING GS-042.
5. 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.
6. ANY WORKS CONSTRUCTED OUTSIDE OF SPECIFIED TOLERANCES ARE TO BE RECTIFIED AT THE CONTRACTORS EXPENSE (IF ORDERED).
7. ALL PAVEMENTS TO BE EXTENDED 150mm BEYOND BACK OF KERB PROFILE.

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.

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910 RP857850, 911 SP303089
PARISH/COUNTY: MACLEAN/UNDULLAH
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

[illegible]

NAME: Jason Harley
RPEQ: 5665

Approved by, for and on behalf of Meinhardt

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PEET FLAGSTONE CITY Pty. Ltd.

TITLE	ROADWORKS & DRAINAGE GATEWAY DRIVE BUS TEMPORARY TURNAROUND LAYOUT PLAN
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PROJECT	FLAGSTONE CITY - STAGE 1 TEMPORARY BUS TURNAROUND ECONOMIC DEVELOPMENT QUEENSLAND
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	STATUS
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APPROVAL
NOT FOR CONSTRUCTION

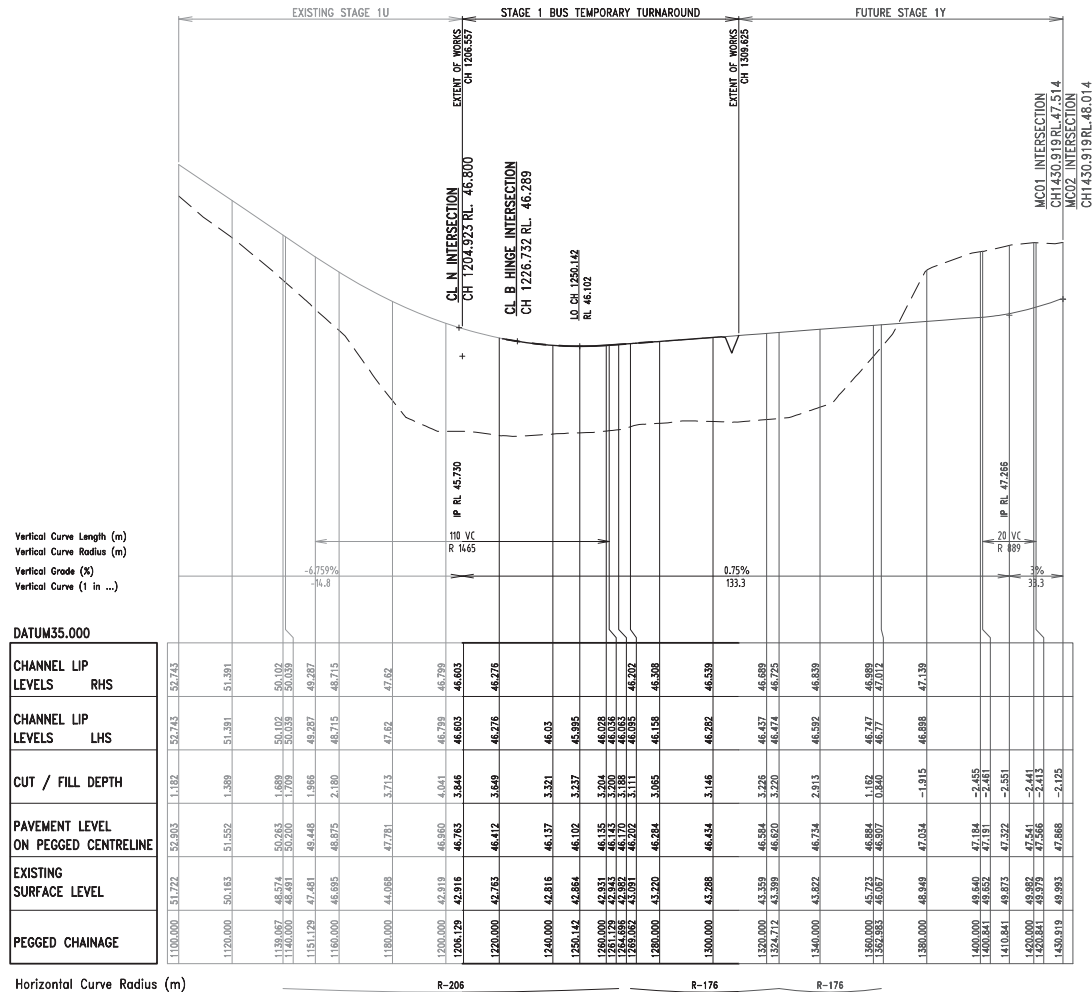
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PROJECT No 14-771		DRAWING No C1-S1BUS-200			REV A

Approval no: DEV2019/1060
Date: 21 August 2019

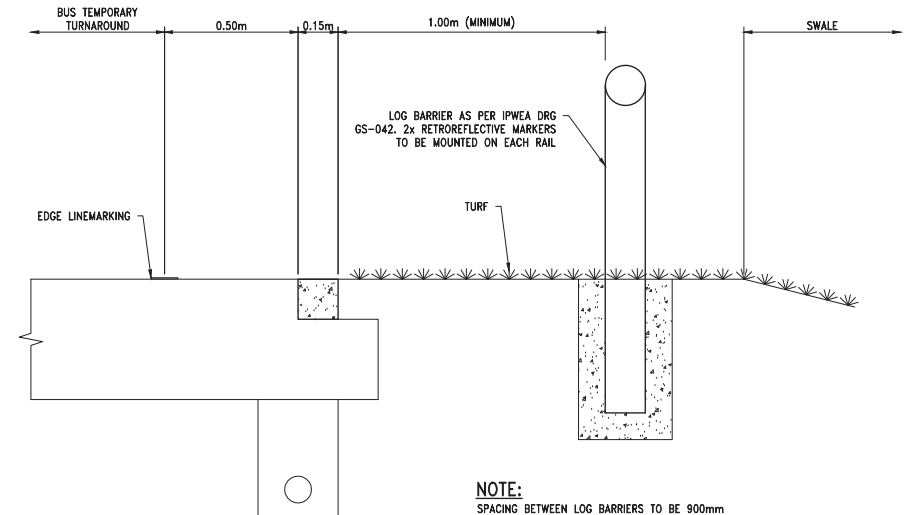
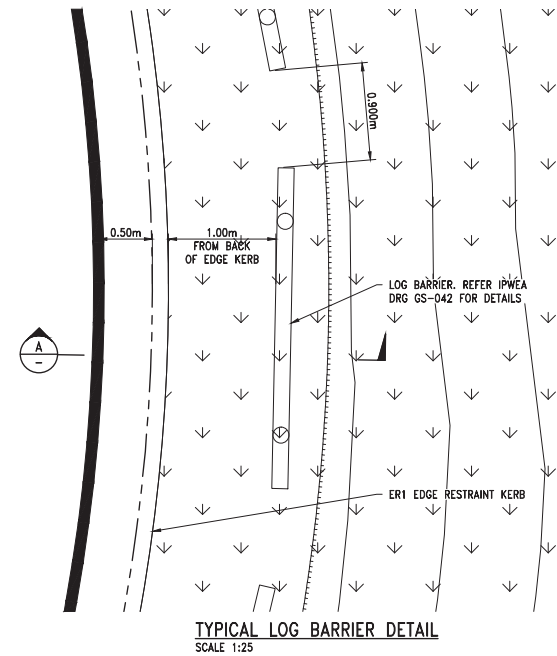


GATEWAY DRIVE - URBAN COLLECTOR ROAD
SUBJECT TO IN FIELD GEOTECHNICAL RESULTS AND CONFIRMATION BY THE SUPERINTENDENT.
PRELIMINARY PAVEMENT DESIGN ASSUMED MINIMUM BOX DEPTH. ASSUMED SUBGRADE CBR10.

STREET TYPE	SURFACE TYPE	PRIMER SEAL	BASE COURSE CBR80 GRAVEL	UPPER SUB-BASE COURSE CBR60 GRAVEL	LOWER BASE COURSE CBR15 GRAVEL	TOTAL DEPTH (mm)
URBAN COLLECTOR ROAD ESA 6.4x10 ⁶	50mm OF 14mm AC	YES	300	100	-	450



GATEWAY DRIVE
SCALE: HORIZONTAL - 1:1000
VERTICAL - 1:100



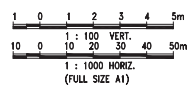
NOTE:
SPACING BETWEEN LOG BARRIERS TO BE 900mm

SECTION

PLAN



LOCAL AUTHORITY: EDQ FILE REF NO: DEV2012/403
RP DESCRIPTION: LOT 2 SP3030389, 908 SP195799,
910 RP857850, 911 SP303089
PARISH/COUNTY: MACLEAN/UNDULLAH
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

[illegible]

NAME: Jason Harley
RPEQ: 5665

Approved by, for and on behalf of Meinhardt

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TITLE	GATEWAY DRIVE BUS TEMPORARY TURNAROUND LONGITUDINAL SECTION
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d.	PROJECT	FLAGSTONE CITY - STAGE 1 TEMPORARY BUS TURNAROUND ECONOMIC DEVELOPMENT QUEENSLAND
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STATUS

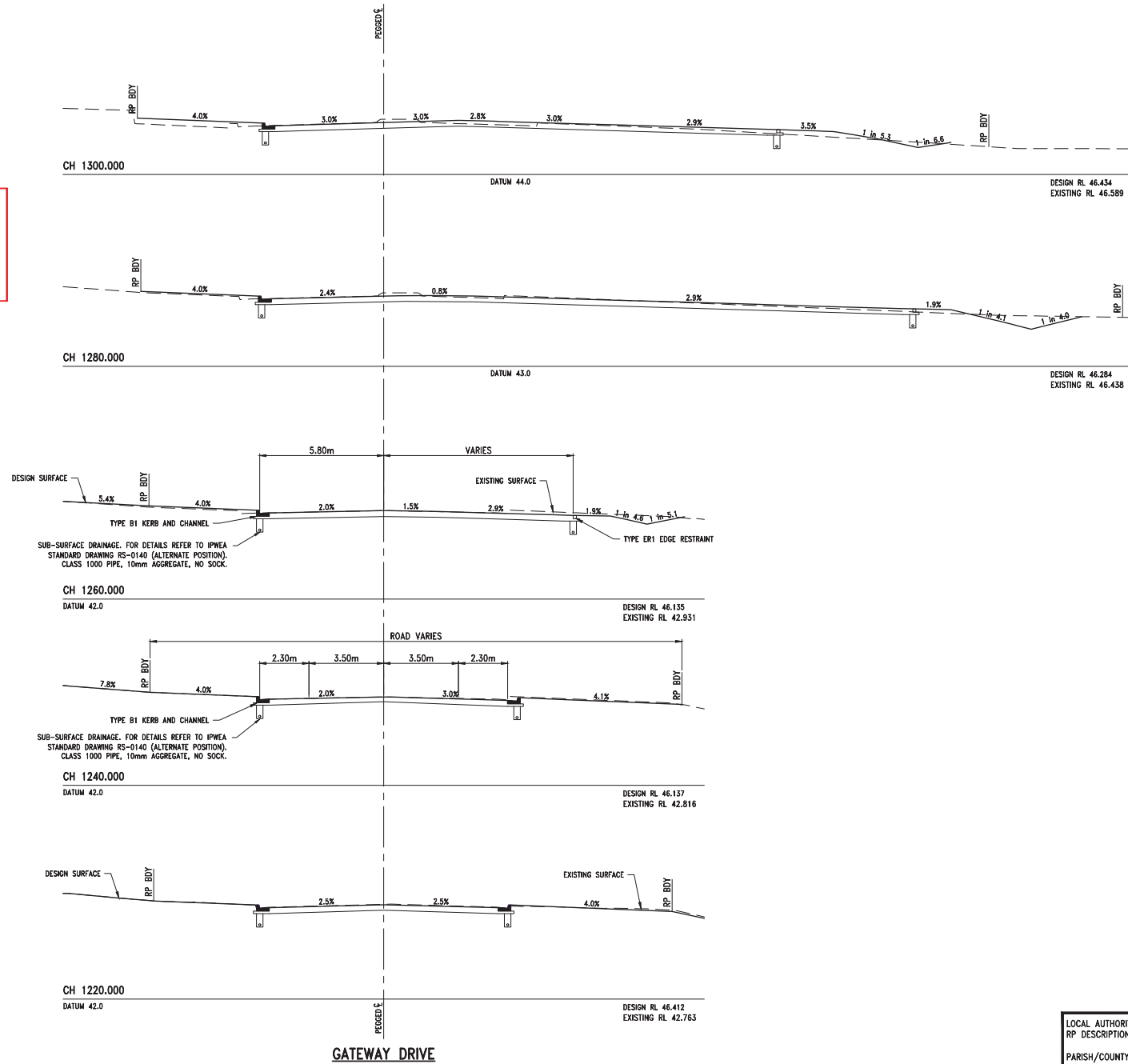
APPROVAL
NOT FOR CONSTRUCTION

DESIGNED NM	DRAWN SW	APPROVED JH	DATE 15.08.19	SCALE @ A1	SHEET 1 of 1
PROJECT No 14-771		DRAWING No C1-S1BUS-220			REV A

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1060

Date: 21 August 2019



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910 RP857850, 911 SP303089
PARISH/COUNTY: MACLEAN/UNDULLAH
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

REV	DESCRIPTION	BY	CHK	DATE
A	ORIGINAL ISSUE	SW	JH	15.08.19

1 0 1 2 3 4 5m
1 : 100 (FULL SIZE A1)



NAME: Jason Harley
RPEQ: 5665
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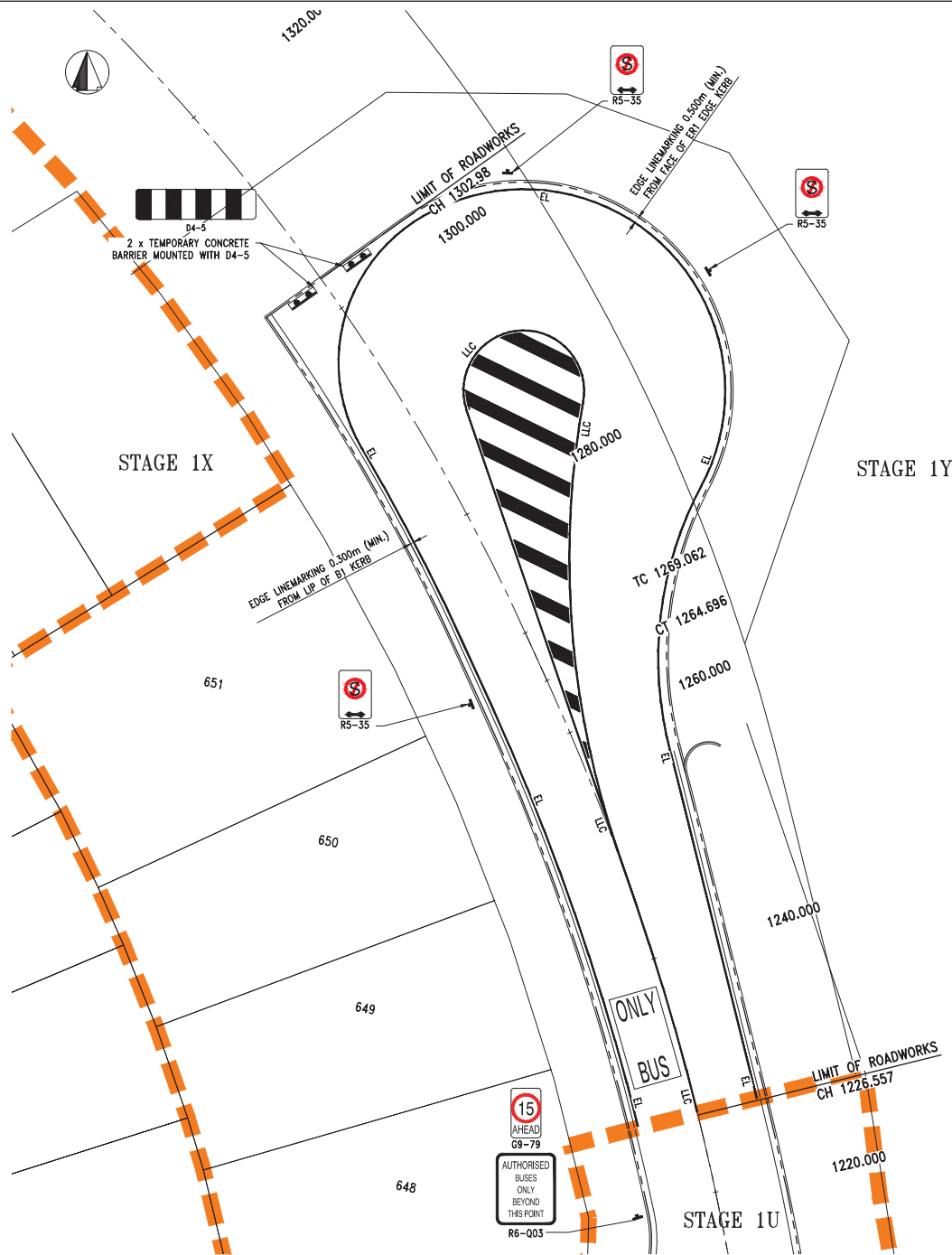
CLIENT
PEET FLAGSTONE CITY Pty. Ltd.

TITLE
GATEWAY DRIVE
BUS TEMPORARY TURNAROUND
CROSS SECTIONS

PROJECT
FLAGSTONE CITY - STAGE 1
TEMPORARY BUS TURNAROUND
ECONOMIC DEVELOPMENT QUEENSLAND

STATUS
APPROVAL
NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ AL	SHEET
NM	SW	JH	15.08.19		1 of 1
PROJECT No	DRAWING No	REV			
14-771	C1-S1BUS-230	A			



PAVEMENT-MARKING LEGEND :

CODE	LINE TYPE	LINE LENGTH	GAP	WIDTH
EL	EDGE LINE	-	-	100mm
GWL	GIVE-WAY LINE	0.6m	0.6m	300mm
BL	BARRIER LINE (SINGLE DIRECTION)	-	-	100mm
BL(2)	BARRIER LINE (BOTH DIRECTIONS)	-	-	80mm
CL	CONTINUITY LINE	1.0m	3.0m	100mm
LL	LANE LINE (BROKEN)	3.0m	9.0m	100mm
LLC	LANE LINE CONTINUOUS	-	-	100mm

NOTE:
ALL CHEVRON ON AC TO BE WHITE
PAINT ONLY, NO THERMOPLASTIC PAINT.

NOTES:

1. THE APPROACH SPEED FOR LINEMARKING IS 50km/hr.

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1060
Date: 21 August 2019



FIRE ANT NOTE:

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PARISH/COUNTY: MACLEAN/UNDULLAH
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

REV	DESCRIPTION	BY	CHK	DATE
A	ORIGINAL ISSUE	SW	JH	15.08.19

2 0 2 4 6 8 10m
1 : 200 (FULL SIZE A1)



NAME: Jason Harley
RPEQ: 5665

Approved by, for and on behalf of Meinhardt

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TITLE
SIGNS AND LINEMARKING

PROJECT
FLAGSTONE CITY - STAGE 1
TEMPORARY BUS TURNAROUND
ECONOMIC DEVELOPMENT QUEENSLAND

STATUS
APPROVAL
NOT FOR CONSTRUCTION

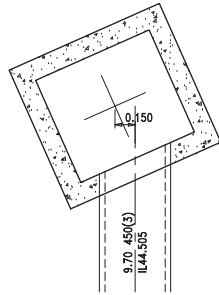
DESIGNED	DRAWN	APPROVED	DATE	SCALE @ AL	SHEET
NM	SW	JH	15.08.19	1:200	1 of 1
PROJECT No	DRAWING No	REV			
14-771	C1-S1BUS-250	A			

CONSTRUCTION NOTES	
1	ALL STORMWATER DRAINAGE PIPES Ø300 TO Ø750 ARE TO BE S.R.C. CLASS '3' UNLESS NOTED OTHERWISE.
2	ALL SWD PIPES GREATER THAN Ø750 ARE TO BE S.R.C CLASS 3 UNLESS NOTED OTHERWISE.
3	IF F.R.C PIPES ARE TO BE USED FOR PIPE DIAMETERS LESS THAN Ø825, THE CONTRACTOR SHALL ISSUE EQUIVALENT F.R.C PIPE CLASSES TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO CONSTRUCTION.
4	PIPE CLASSES HAVE BEEN DESIGNED FOR A MINIMUM CONSTRUCTION TRENCH TYPE H2.
5	THE FOLLOWING CONSTRUCTION LOADS HAVE BEEN ALLOWED FOR AT THE NOMINATED MINIMUM COVER. THESE LOADS SHALL NOT BE EXCEEDED WITHOUT THE APPROVAL OF THE SUPERINTENDENT: * NAASRA A14 AXLE 950mm * ASPHALT COMPACTOR CAT P5500 925mm * VIBRATORY ROLLER 10T 725mm * VIBRATORY RAMMER (WACKER) 410mm
6	UNDER NO CIRCUMSTANCES SHALL AN EXCAVATOR COMPACTION WHEEL BE USED TO COMPACT STORMWATER DRAINAGE TRENCHES.
7	FOR MANHOLE WALL THICKNESSES REFER IPWEA STANDARD DRAWING DS-010.
8	ALL NON-STANDARD STRUCTURES TO BE DESIGNED AND CERTIFIED BY CONTRACTORS STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

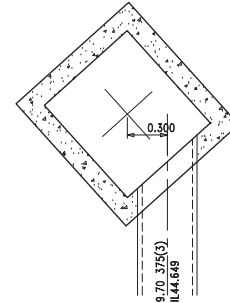
PLANS AND DOCUMENTS
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Approval no: DEV2019/1060
Date: 21 August 2019



1.75 – 835 x 930 SL 46.010



1.74 – 835 x 930 SL 45.939

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ORIGIN:	PW107142 (RL39.078)		
HORIZONTAL DATUM:	MGA		

REV	DESCRIPTION	BY	CHK	DATE
A	ORIGINAL ISSUE	SW	JH	15.08.19

1	0	1	2	3	4	5m
1	100					(FULL SIZE A1)

veris	PROSPERINE 201 000 0100 MACKAY 201 000 0100 CHARNIS 201 000 0100 201 000 0100 201 000 0100 Queensland Surveying Pty Ltd is Veris
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NAME: Jason Harley RPEQ: 5665	Approved by, for and on behalf of Meinhardt
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CLIENT	PEET FLAGSTONE CITY Pty. Ltd.
TITLE	STORMWATER DRAINAGE STRUCTURE DETAILS

PROJECT	FLAGSTONE CITY - STAGE 1 TEMPORARY BUS TURNAROUND ECONOMIC DEVELOPMENT QUEENSLAND
STATUS	APPROVAL NOT FOR CONSTRUCTION

DESIGNED	NM	DRAWN	SW	APPROVED	JH	DATE	15.08.19	SCALE @ A1	1:200	SHEET	1 of 1
PROJECT No	14-771	DRAWING No	C1-S1BUS-340	REV	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".

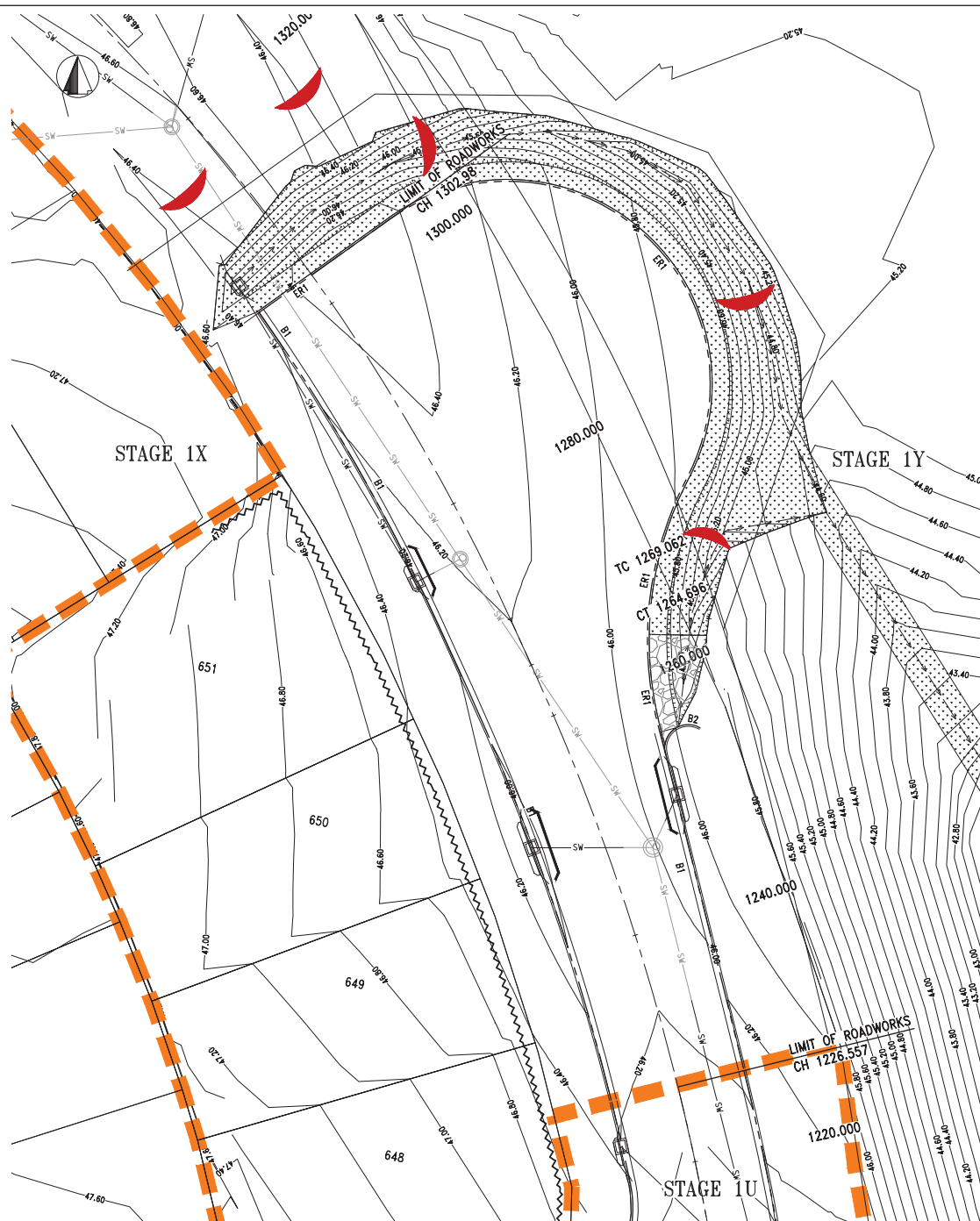
LEGEND

- 12 FINISHED SURFACE CONTOURS
- NOMINAL KERB LINE
- SEDIMENT FENCE
- DIVERSION DRAIN
- SEDIMENT TRAP
- FIELD INLET SEDIMENT TRAP
- SHAKEDOWN AREA
- SW STORMWATER
- EXISTING STORMWATER
- FUTURE STORMWATER
- STAGE BOUNDARY
- TREES TO BE RETAINED
- ROCK CHECK DAM. REFER IPWEA STANDARD DRAWING DS-041.

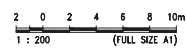
FIRE ANT NOTE:

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: EDQ FILE REF NO: DEV2012/403
RP DESCRIPTION: LOT 2 SP3030389, 908 SP195799, 910 RP857850, 911 SP303089
PARISH/COUNTY: MACLEAN/UNDULLAH
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA



REV	DESCRIPTION	BY	CHK	DATE
A	ORIGINAL ISSUE	SW	JH	15.08.19



NAME: Jason Harley
RPEQ: 5665

Approved by, for and on behalf of Meinhardt

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CLIENT
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TITLE
EROSION AND SEDIMENT CONTROL
MANAGEMENT PLAN
PHASE 2

PROJECT		STATUS		DESIGNED		APPROVED		DATE		SCALE @ A1		SHEET	
FLAGSTONE CITY - STAGE 1 TEMPORARY BUS TURNAROUND ECONOMIC DEVELOPMENT QUEENSLAND		APPROVAL NOT FOR CONSTRUCTION		NM		SW		JH		15.08.19		1:200	
PROJECT No		DRAWING No		REV		14-771		C1-S1BUS-601		1 of 1		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. SEDIMENT CONTROLS ARE NOT TO BE REMOVED PRIOR TO SATISFACTORY ESTABLISHMENT OF GROUND COVER/WRITTEN DIRECTION FROM THE SUPERINTENDENT.
3. ONCE HYDRO MULCH IS DEEMED TO BE SUFFICIENTLY ESTABLISHED, SILT FENCES CAN BE REMOVED IF INSTRUCTED BY THE SUPERINTENDENT.
4. 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
- STORMWATER
- STAGE BOUNDARY
- TREES TO BE RETAINED
- ROCK CHECK DAM. REFER IPWEA STANDARD DRAWING DS-041.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2019/1060
Date: 21 August 2019



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: EDQ FILE REF NO: DEV2012/403
RP DESCRIPTION: LOT 2 SP3030389, 908 SP195799, 910 RP857850, 911 SP303089
PARISH/COUNTY: MACLEAN/UNDULLAH
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

REV	DESCRIPTION	BY	CHK	DATE
A	ORIGINAL ISSUE	SW	JH	15.08.19

2 0 2 4 6 8 10m
1 : 200 (FULL SIZE A1)



NAME: Jason Harley
RPEQ: 5665

Approved by, for and on behalf of Meinhardt

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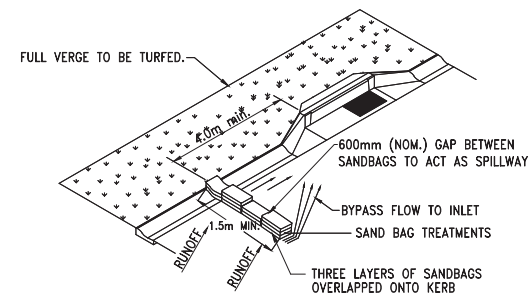
TITLE
EROSION AND SEDIMENT CONTROL
MANAGEMENT PLAN
PHASE 3

PROJECT
FLAGSTONE CITY - STAGE 1
TEMPORARY BUS TURNAROUND
ECONOMIC DEVELOPMENT QUEENSLAND

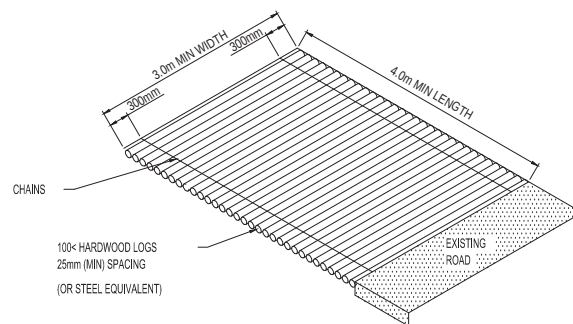
STATUS
APPROVAL
NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ AL	SHEET
NM	SW	JH	15.08.19	1:200	1 of 1
PROJECT No	DRAWING No	REV			
14-771	C1-S1BUS-602	A			

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.



ON GRADE GULLY SEDIMENT TREATMENT
SCALE N.T.S.



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

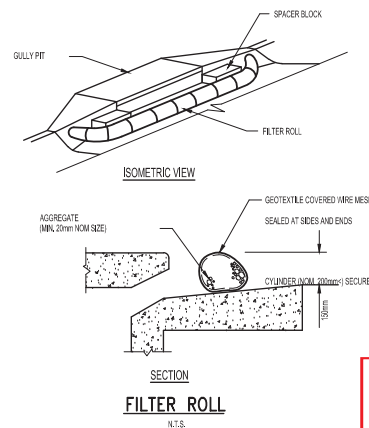
PHASE 1 - PRIOR TO PRE-START
THE CONTRACTOR WILL BE PAID FOR SCHEDULED QUANTITIES FOR THIS PHASE

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.

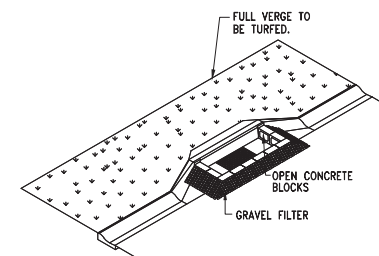
THE MONTHLY ALLOWANCE IN THE SCHEDULE WILL NOT BE CLAIMABLE IF TESTS SHOW A RELEASE OF GREATER THAN 50mg/L OF SUSPENDED SOLIDS AND THE RAIN EVENTS DO NOT EXCEED 75TH PERCENTILE OF A 5 DAY EVENT (ON THIS SITE 40mm OVER 5 DAYS). ALL OTHER COSTINGS NOT SCHEDULED ARE DEEMED INCLUDED.

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.

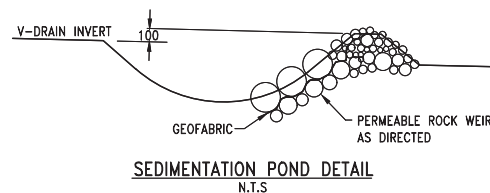


SAG GULLY SEDIMENT TREATMENT
SCALE N.T.S.



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

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.



SEDIMENTATION POND DETAIL
N.T.S

REV		DESCRIPTION	BY	DATE																																																		
A		ORIGINAL ISSUE	JH	15.08.19																																																		
					2 0 2 4 6 8 10m 1 : 200 (FULL SIZE A1) VERIS BRISBANE: 07 554 0000 MELBOURNE: 03 9594 1393 SYDNEY: 02 9594 1393 VERIS: 0800 600 600 Queensland Surveying Pty Ltd is Veris PROCESSED BY: JH CHECKED BY: JH DATE: 15.08.19 VERIS: 0800 600 600 Queensland Surveying Pty Ltd is Veris ISO 9001 CERTIFIED Meinhardt Urban Pty Ltd A.B.N. 29 664 159 181 Brisbane - Level 2, 135 Wickham Terrace, Spring Hill QLD 4000 Gold Coast - Level 1, 34 Thomas Drive, Chevron Island QLD 4217 Sunshine Coast - 6 PMB Street, Mooloolah Queensland QLD 4558 Produce PO Box 3203, Southport QLD 4215 T +61 7 5528 6411 F +61 7 5528 6412 info@meinhardtgroup.com www.meinhardtgroup.com © Copyright CLIENT PEET FLAGSTONE CITY Pty. Ltd. PROJECT FLAGSTONE CITY - STAGE 1 TEMPORARY BUS TURNAROUND ECONOMIC DEVELOPMENT QUEENSLAND <table><tr><th>TITLE</th><th>STATUS</th><th>DESIGNED</th><th>DRAWN</th><th>APPROVED</th><th>DATE</th><th>SCALE A1</th><th>SHEET</th></tr><tr><th></th><th></th><th>NO</th><th>NO</th><th>NO</th><th></th><th></th><th>NO</th></tr><tr><td>EROSION AND SEDIMENT CONTROL MANAGEMENT PLAN NOTES AND DETAILS</td><td>APPROVAL NOT FOR CONSTRUCTION</td><td>14-771</td><td>SW</td><td>JH</td><td>15.08.19</td><td></td><td>1 of 1</td></tr><tr><td>PROJECT NO:</td><td></td><td>14-771</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DRAWING NO:</td><td></td><td>C1-S1BUS-603</td><td></td><td></td><td></td><td></td><td></td></tr></table>										TITLE	STATUS	DESIGNED	DRAWN	APPROVED	DATE	SCALE A1	SHEET			NO	NO	NO			NO	EROSION AND SEDIMENT CONTROL MANAGEMENT PLAN NOTES AND DETAILS	APPROVAL NOT FOR CONSTRUCTION	14-771	SW	JH	15.08.19		1 of 1	PROJECT NO:		14-771						DRAWING NO:		C1-S1BUS-603					
TITLE	STATUS	DESIGNED	DRAWN	APPROVED	DATE	SCALE A1	SHEET																																															
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EROSION AND SEDIMENT CONTROL MANAGEMENT PLAN NOTES AND DETAILS	APPROVAL NOT FOR CONSTRUCTION	14-771	SW	JH	15.08.19		1 of 1																																															
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