

TEMPORARY BRIDGE ROADWORKS

CIVIL WORKS

GENERAL NOTES:

- ALL DIMENSIONS ON THE JOB ARE IN METRES UNLESS SHOWN OTHERWISE.
- THE CONTRACTOR IS TO MAKE HIMSELF 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 LAISE 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.
- 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.
- ANY WORK CONSTRUCTED OUTSIDE TOLERANCES WILL BE RECTIFIED AT CONTRACTORS EXPENSE IF ORDERED.
- ALL BATTERS ARE TO BE HYDRO MULCHED TO PREVENT SCOUR AND EROSION UNLESS NOTED OTHERWISE.
- DESIGN SAFETY:**
THIS DESIGN HAS BEEN REVIEWED INTERNALLY BY BRADLEES FOR DESIGN SAFETY IN ACCORDANCE WITH SECTIONS 22 AND 295 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.

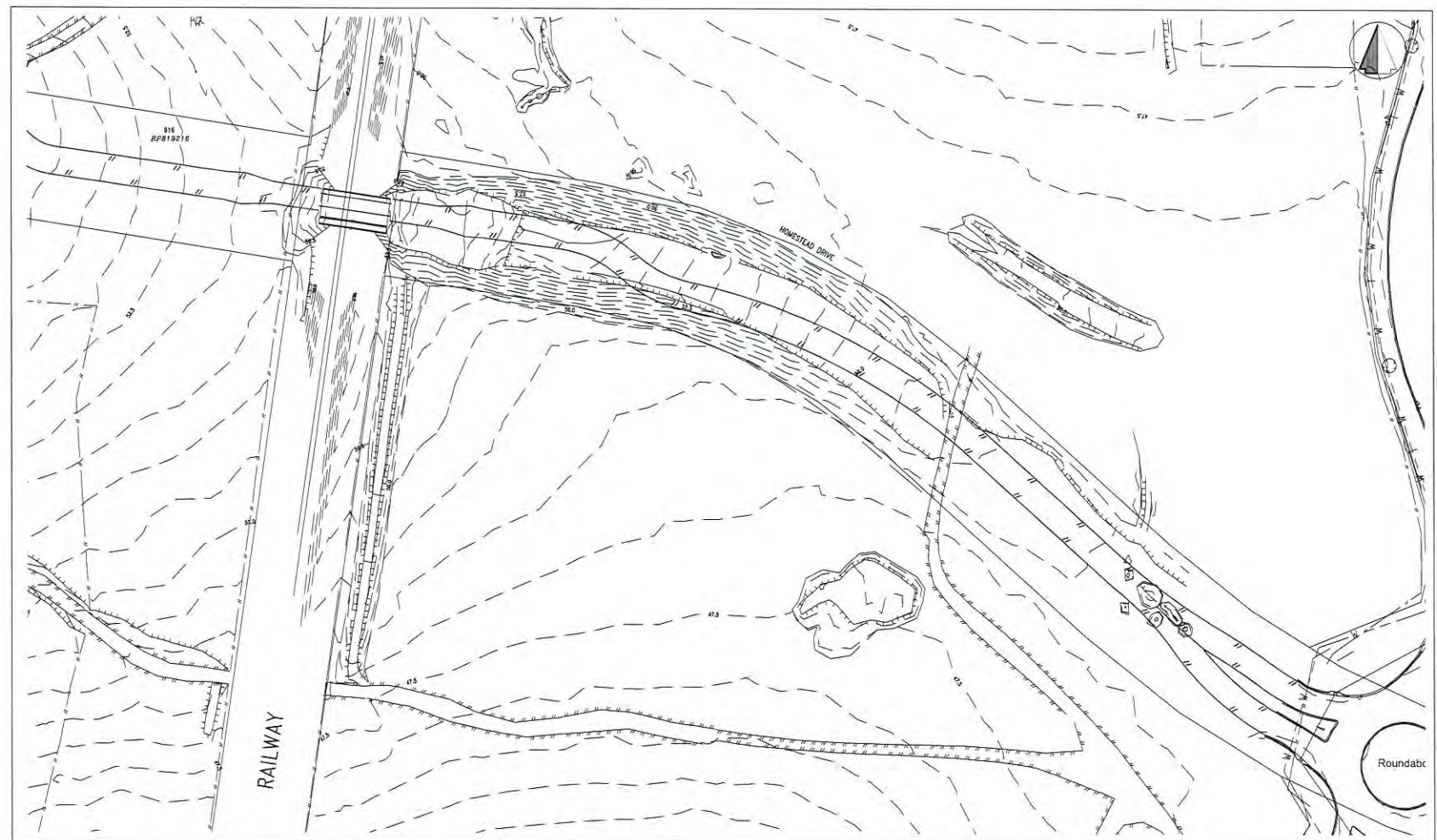
DRAWING INDEX:

DWG No.	DESCRIPTION
000	DRAWING INDEX & LOCALITY PLAN
001	SAFETY IN DESIGN CHECKLIST
002	EARTHWORKS PLAN
003	EROSION AND SEDIMENT CONTROL PLAN
004	ROADWORKS PLAN
005	ROAD LONGITUDINAL SECTIONS
006	ROAD CROSS SECTIONS - SHEET 1 OF 2
007	ROAD CROSS SECTIONS - SHEET 2 OF 2

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

- 3 MAR 2015

MEDQ



SITE LAYOUT
1:1000



LOCALITY PLAN
NOT TO SCALE

LOCAL AUTHORITY: LOGAN CITY COUNCIL
LCC FILE REF NO:
RP DESCRIPTION: EXISTING ROAD RESERVE
PARISH/COUNTY: UNDULLAH/STANLEY
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

REV	DESCRIPTION	BY	APP	DATE
A	ORIGINAL ISSUE	NM	JH	12.12.14
B	BRIDGE LEVELS AMENDED AND EDG COMMENTS	NM	JH	11.02.15

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

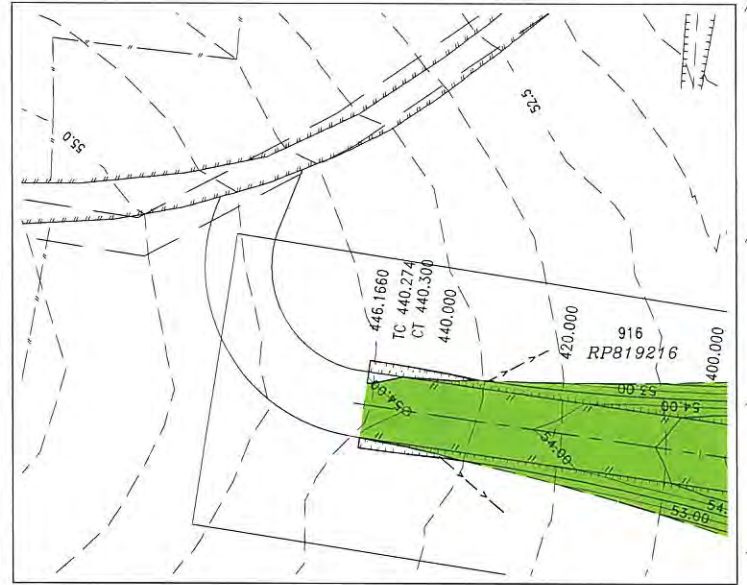
BRISBANE ROSEBANE MACKAY CAIRNS BOWEN thg@thg.com.au www.thg.com.au RPEQ 5023  Approved by:  This drawing has been produced for the exclusive use of the client (nominated on this document). No third party is to rely on this document without written permission from Bradlees. This drawing is not to be constructed from unless "Issued for construction" is displayed and only where signed by an RPEQ. © Copyright  Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail.aui@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217 Brisbane Ph 07 3018 5034 Sunshine Coast Ph 07 5451 1994  Bradlees DRAWING INDEX & LOCALITY PLAN CLIENT PEET FLAGSTONE CITY PTY. LTD. PROJECT TEMPORARY BRIDGE ROADWORKS LOGAN CITY COUNCIL TITLE DRAWING INDEX & LOCALITY PLAN STATUS APPROVAL <table><tr><th>DESIGNED</th><th>DRAWN</th><th>APPROVED</th><th>DATE</th><th>SCALE @ A1</th><th>SHEET</th></tr><tr><td>NM</td><td>CD</td><td>JH</td><td>05.12.14</td><td>1:1000</td><td>1 OF 1</td></tr></table> <table><tr><td>PROJECT No</td><td>DRAWING No</td><td>REV</td></tr><tr><td>14 771</td><td>000</td><td>B</td></tr></table>	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET	NM	CD	JH	05.12.14	1:1000	1 OF 1	PROJECT No	DRAWING No	REV	14 771	000	B
DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET													
NM	CD	JH	05.12.14	1:1000	1 OF 1													
PROJECT No	DRAWING No	REV																
14 771	000	B																



NOTES

1. TABLE DRAIN TURNOUTS / SWALE INVERTS SHALL BE GRADED TO DRAIN FREELY. ALL SWALES ARE TO BE TOPSOILED AND TURFED.
2. FOR ROAD SETOUT AND CHAINAGES REFER TO DRAWING No. 004
3. ALL BATTERS ARE TO BE HYDRO MULCHED TO PREVENT SCOUR AND EROSION UNLESS NOTED OTHERWISE.

FOR CONTINUATION REFER INSET A



INSET A

LEGEND

- 12 — EXISTING SURFACE CONTOURS
- PROPOSED EDGE OF BITUMEN
- PROPOSED CONTROL LINE
- PROPOSED TOP OF BATTER
- PROPOSED TOE OF BATTER
- PROPOSED TABLE DRAIN TURNOUT
- PROPOSED EARTHWORKS CUT
- PROPOSED EARTHWORKS FILL

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

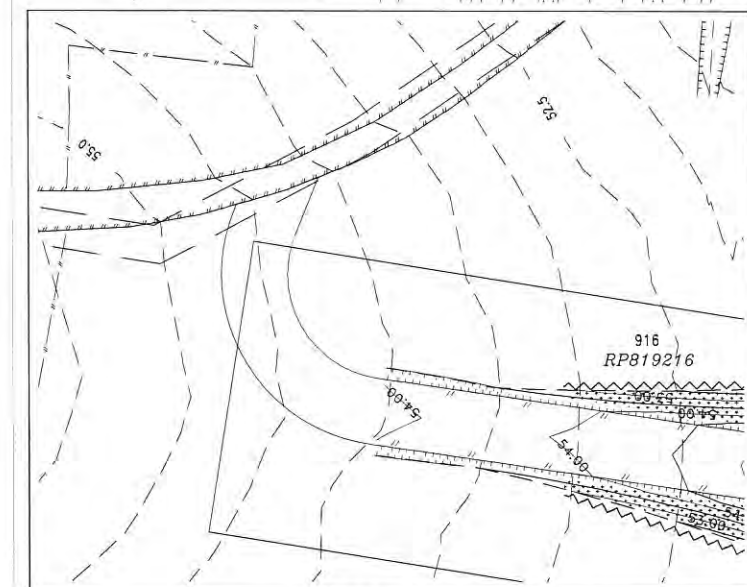
- 3 MAR 2015

MEDQ

LOCAL AUTHORITY: LOGAN CITY COUNCIL
LCC FILE REF NO:
RP DESCRIPTION: EXISTING ROAD RESERVE
PARISH/COUNTY: UNDULLAH/STANLEY
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

REV A 9	DESCRIPTION ORIGINAL ISSUE BRIDGE LEVELS AMENDED AND EDQ COMMENTS	BY NBR JH	APP NBR JH	DATE 12.12.14 11.02.15
5 0 5 10 15 20 25m 1 : 500 (FULL SIZE A1) THG BRIAN THOMAS MACKAY BOWEN PROSERPINE CARRIBLO CARRIBLO RPEQ 5023 Approved by: [Signature] 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 Bradlees. This drawing is not to be constructed unless "Issued for construction" is displayed and only where signed by an RPEQ. © Copyright SCI QUAL INTERNATIONAL QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 REG. NO. 233 Bradlees Bradford Lees Pty Ltd ABN 29 064 199 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradleesmenhardts.com Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217 Brisbane Ph 07 3018 5034 Sunshine Coast Ph 07 5451 1994 CUSTOMER PEET FLAGSTONE CITY PTY. LTD. PROJECT TEMPORARY BRIDGE ROADWORKS LOGAN CITY COUNCIL TITLE EARTHWORKS PLAN STATUS APPROVAL DESIGNED NM DRAWN CD APPROVED JH DATE 05.12.14 SCALE @ A1 1:500 SHEET 1 OF 1 PROJECT No 14 771 DRAWING No 002 REV B				

FOR CONTINUATION REFER INSET A



INSET A

LEGEND

- EXISTING SURFACE CONTOURS
- FINISHED SURFACE CONTOURS
- PROPOSED TOP OF BATTER
- PROPOSED TOE OF BATTER
- PROPOSED EDGE OF BITUMEN
- PROPOSED SEDIMENT FENCE
- PROPOSED DIVERSION DRAIN
- EXISTING DIVERSION DRAIN
- PROPOSED SHAKEDOWN AREA
- PROPOSED EROSION CONTROL MATTING

GENERAL NOTES:

- 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.
- 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.
- ALL FENCING AND SILT FENCING TO BE INSTALLED PRIOR TO PRE-START MEETING.
- THE CONTRACTOR SHALL PROVIDE AN EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL BY SUPERINTENDENT PRIOR TO POSSESSION OF SITE BEING GRANTED.
- ONCE HYDRO MULCH IS DEEMED TO BE SUFFICIENTLY ESTABLISHED, SILT FENCES CAN BE REMOVED IF INSTRUCTED BY THE PRINCIPLE.

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

STOCKPILE NOTES:

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

STABILISATION NOTES:

- TOP SOIL AND SEED MUST BE PLACED ON COMPLETED AREAS WITHIN 7 DAYS OF THAT AREA BEING COMPLETED.
- HYDROMULCHING MAY BE ORDERED BY THE SUPERINTENDENT.
- ALL BATTERS GREATER THAN 1 IN 2 TO BE COVERED WITH EROSION CONTROL MATTING.
- 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 APPROVAL
3 MAR 2015
MEDQ

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A	ORIGINAL ISSUE	NM	JH	12.12.14
B	BRIDGE LEVELS AMENDED AND EDO COMMENTS	NM	JH	11.02.15

5 0 5 10 15 20 25m

1 : 500 (FULL SIZE A1)

SURVEYOR

THG

BRISBANE MACKEY PROSERPINE

ROCHESTER

127 568 4782 127 568 4782 127 568 4782

127 568 4782 127 568 4782 127 568 4782

RPEQ 5023

Approved by *[Signature]*

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Brisbane Ph 07 3018 5034 Sunshine Coast Ph 07 5451 1994

Bradlees

Part of the Brierley Group

CLIENT

PEET FLAGSTONE CITY PTY. LTD.

PROJECT

TEMPORARY BRIDGE ROADWORKS

LOGAN CITY COUNCIL

TITLE

EROSION & SEDIMENT CONTROL PLAN

STATUS

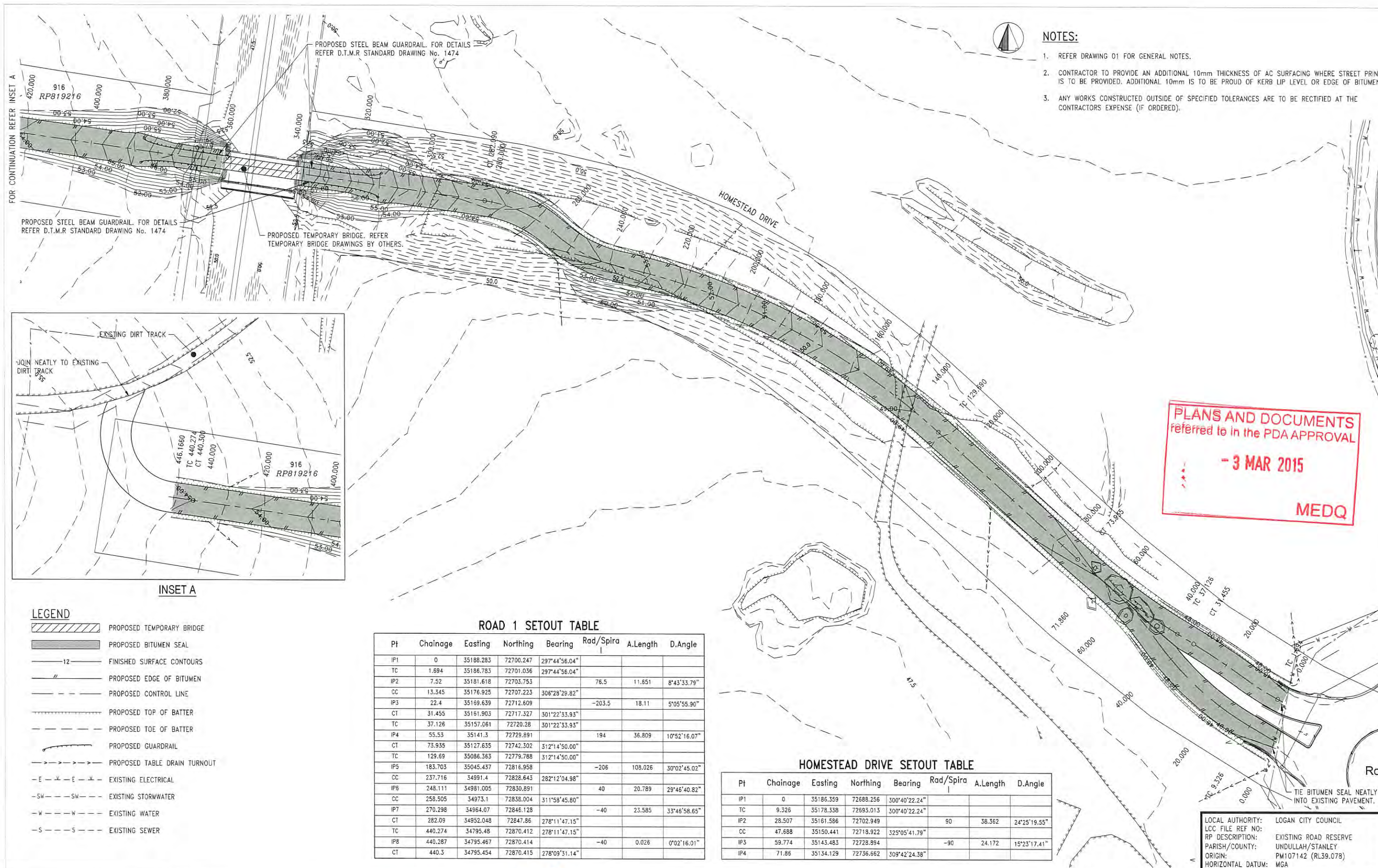
APPROVAL

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
NM	CD	JH	05.12.14	1:500	1 OF 1

PROJECT NO: 14 771

DRAWING NO: 003

REV: B



REV	DESCRIPTION	BY	APP	DATE
A	ORIGINAL ISSUE	NM	JH	12.12.14
B	BRIDGE LEVELS AMENDED AND EDQ COMMENTS	NM	JH	11.02.15

1 0 5 10 15 20 25m
1 : 500 (FULL SIZE A1)

SURVEYOR
THG
BOWEN
MACKAY
PRESEBRNE
77 487 750
77 487 750

RPEQ 5023
Approved by: [Signature] of Bradlees
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Brisbane Ph 07 3018 5034 Sunshine Coast Ph 07 5451 1994

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CURT
PEET FLAGSTONE CITY PTY. LTD.

PROJECT
TEMPORARY BRIDGE ROADWORKS
LOGAN CITY COUNCIL

TITLE
ROADWORKS PLAN

STATUS
APPROVAL

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
NM	CD	JH	05.12.14	1:500	1 OF 1

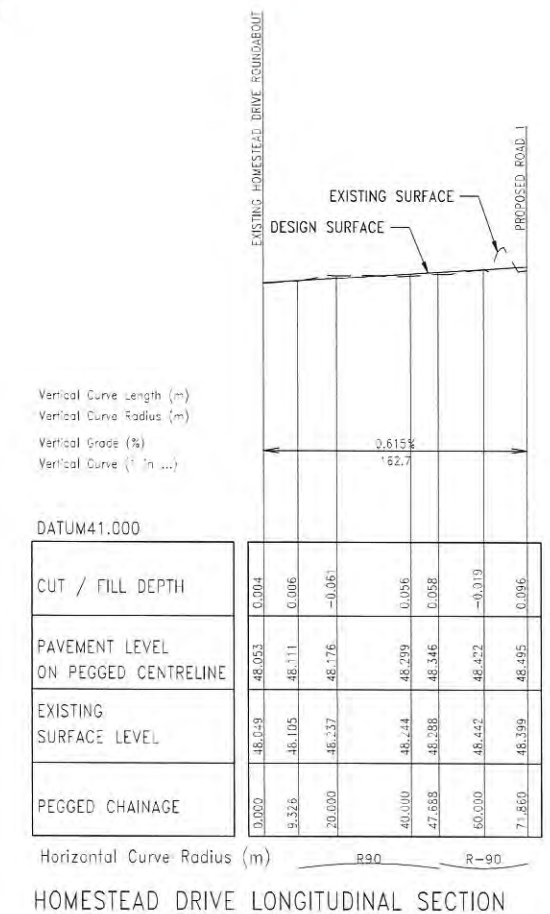
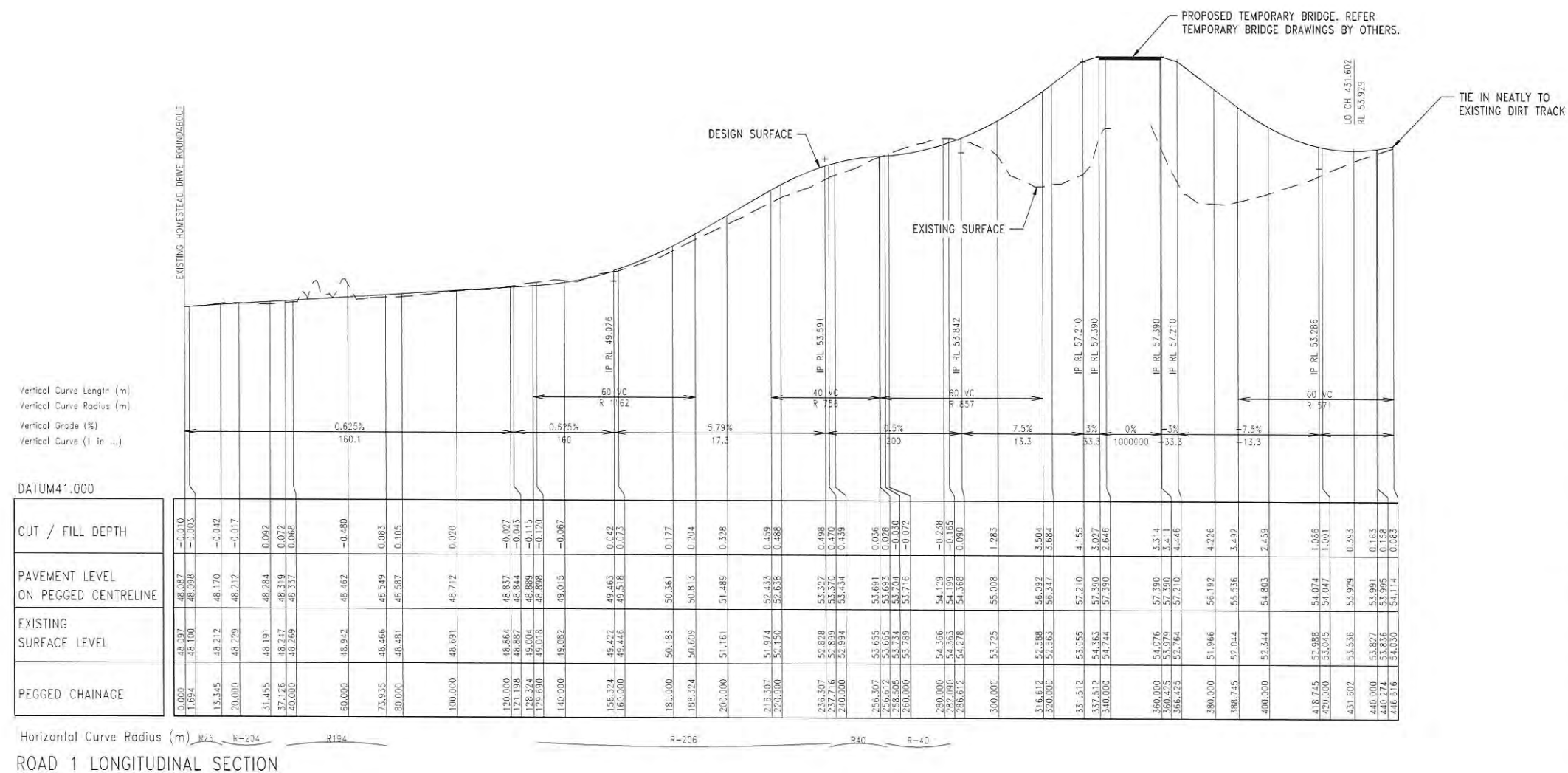
PROJECT NO: 14 771
DRAWING NO: 004
REV: B

CHAINAGE LIMITS	SURFACE TYPE	PRIMER SEAL	BASE COURSE CBR60 GRAVEL	SUB-BASE COURSE CBR45 GRAVEL	SELECT MATERIAL CBR15 GRAVEL	BLANKET COURSE CBR15 MATERIAL	TOTAL DEPTH (mm)
0.000-446.166	BITUMEN	Y	100	150	-	-	275

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

- 3 MAR 2015

MEDQ



LOCAL AUTHORITY: LOGAN CITY COUNCIL
LCC FILE REF NO:
RP DESCRIPTION: EXISTING ROAD RESERVE
PARISH/COUNTY: UNDULLAH/STANLEY
ORIGIN: PM107142 (RL39.078)
HORIZONTAL DATUM: MGA

REV	DESCRIPTION	BY	APP	DATE
A	ORIGINAL ISSUE	NM	JH	12.12.14
B	BRIDGE LEVELS AMENDED AND EDO COMMENTS	NM	JH	11.02.15

1 : 1000 HORIZ.

1 : 100 VERT. (FULL SIZE)

SURVEYOR

THG

BRISBANE
257 484 191

MACKAY
277 481 781

CAIRNS
277 481 781

ROCKHAMPTON
277 481 781

ENTERED IN THE REGISTER OF PROFESSIONAL SURVEYORS

RPEQ 5023

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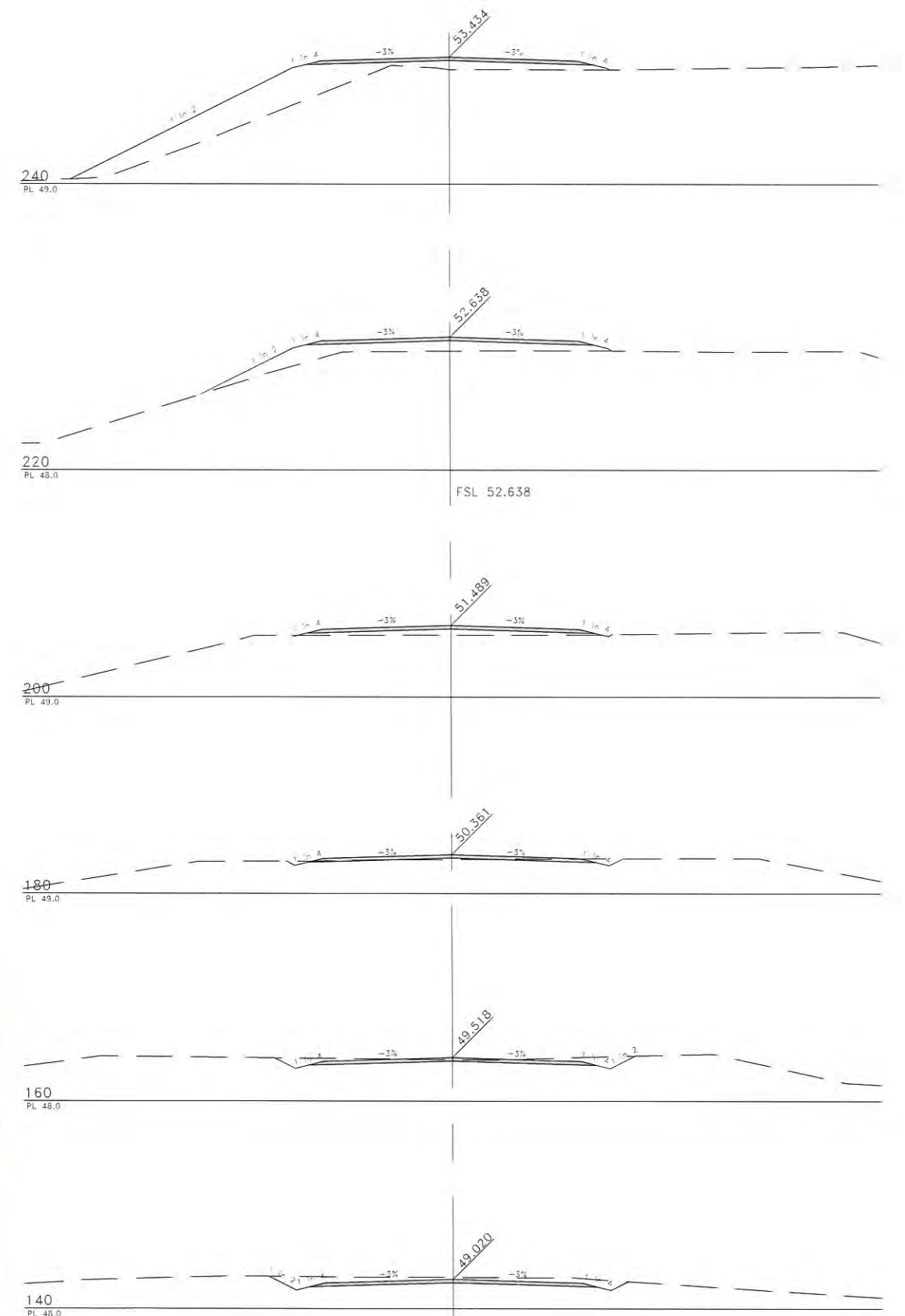
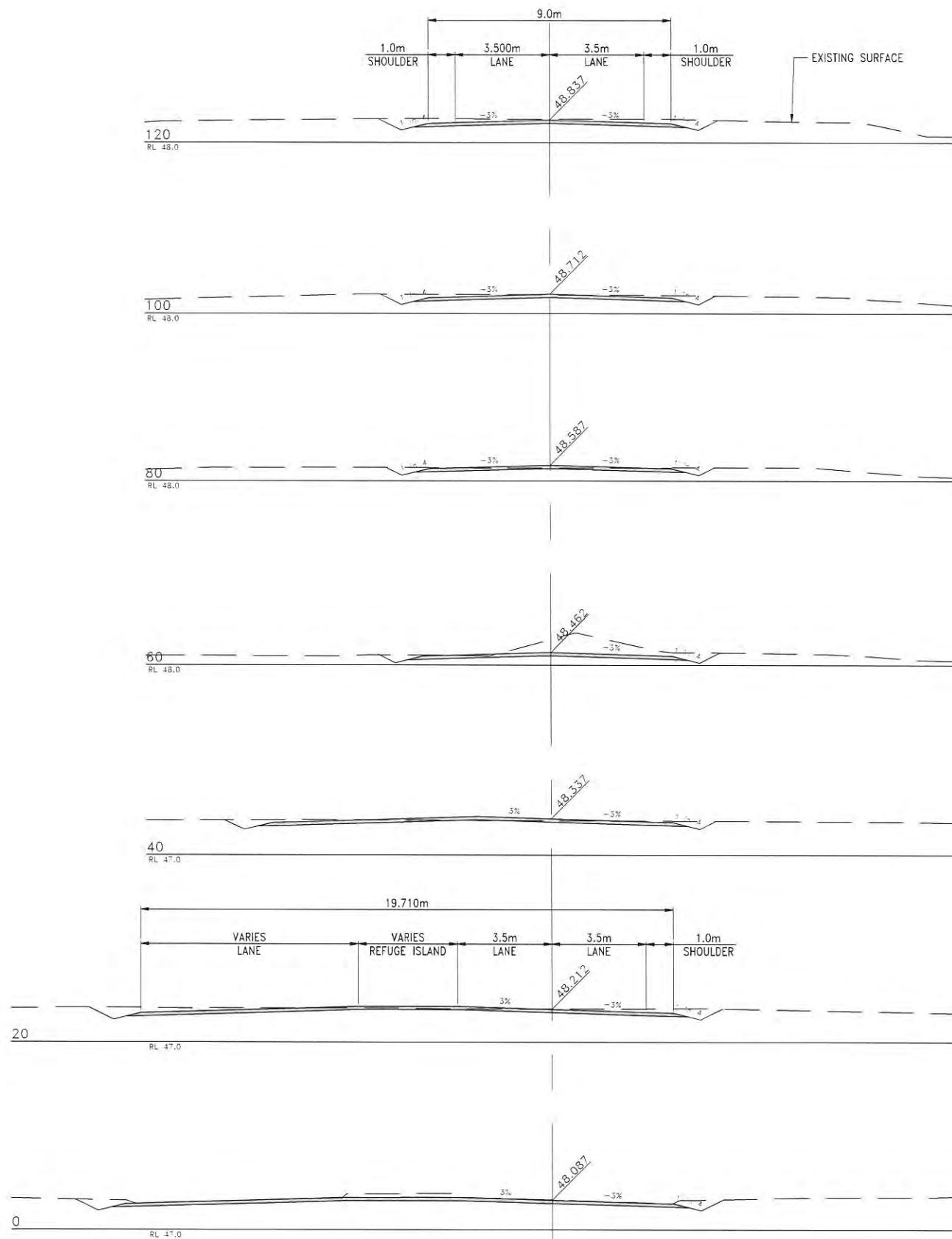
Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

Brisbane Ph 07 3018 5034 Sunshine Coast Ph 07 5451 1994

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CURRENT	PROJECT	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
PEET FLAGSTONE CITY PTY. LTD.	TEMPORARY BRIDGE ROADWORKS	NM	CD	JH	05.12.14	1 OF 1	
TITLE	STATUS	PROJECT NO.	DRAWING NO.	REV			
ROAD LONGITUDINAL SECTIONS	APPROVAL	14 771	005	B			



PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
- 3 MAR 2015
MEDQ

LOCAL AUTHORITY: LOGAN CITY COUNCIL
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A	ORIGINAL ISSUE	NM	JH	12.12.14
B	BRIDGE LEVELS AMENDED AND EDQ COMMENTS	NM	JH	11.02.15

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1 : 100 (FULL SIZE A1)						

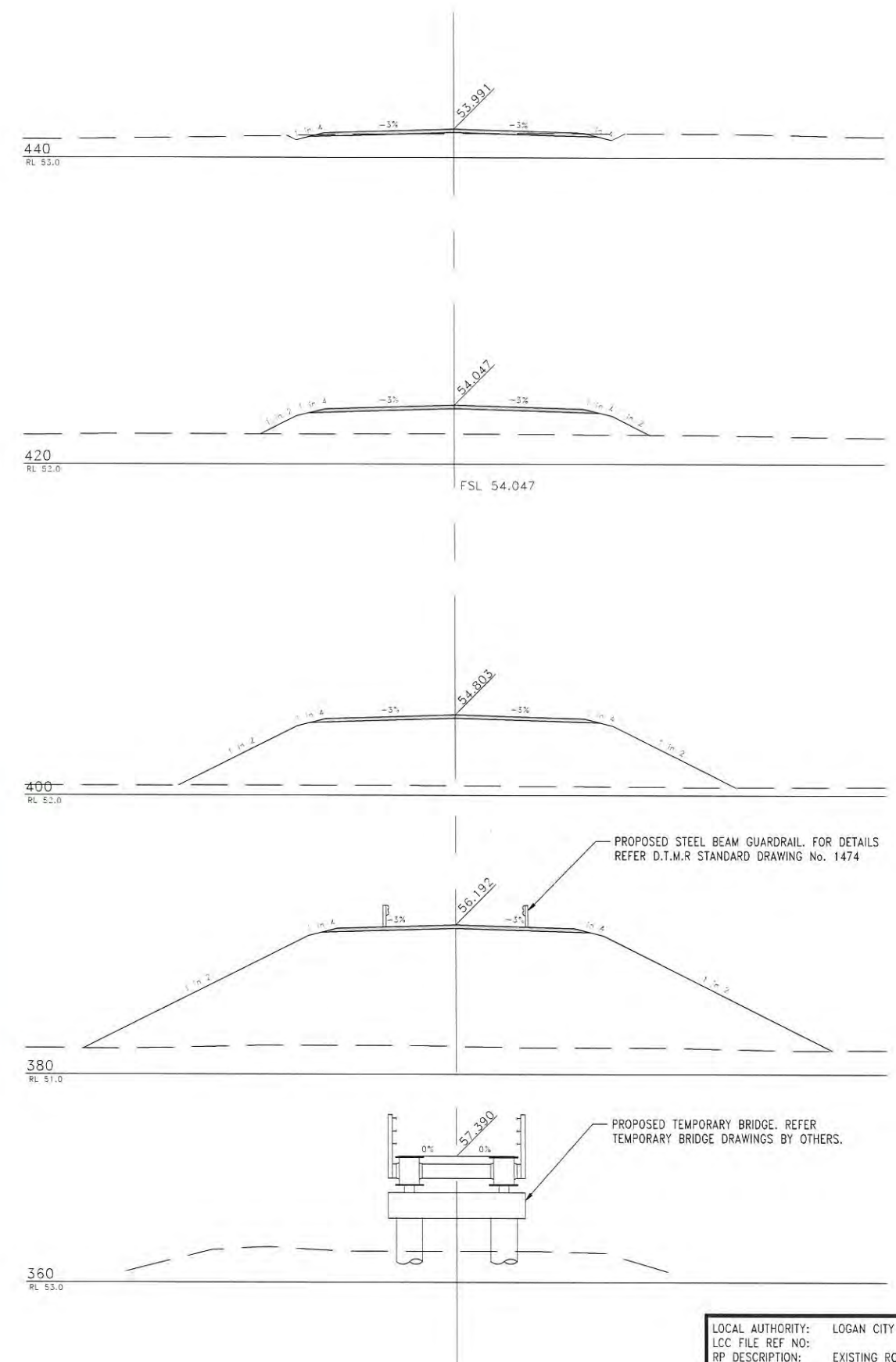
SURVEYOR	
THG	THG
BRISBANE	MACKAY
207-208-209	207-208-209
BOWEN	CAIRNS
207-208-209	207-208-209
207-208-209	207-208-209

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CLIENT	PROJECT
PEET FLAGSTONE CITY PTY. LTD.	TEMPORARY BRIDGE ROADWORKS
TITLE	LOGAN CITY COUNCIL
ROAD CROSS SECTIONS - SHEET 1 OF 2	APPROVAL

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
NM	CD	JH	05.12.14	1:100	1 OF 1
PROJECT No	DRAWING No	REV			
14 771	006	B			



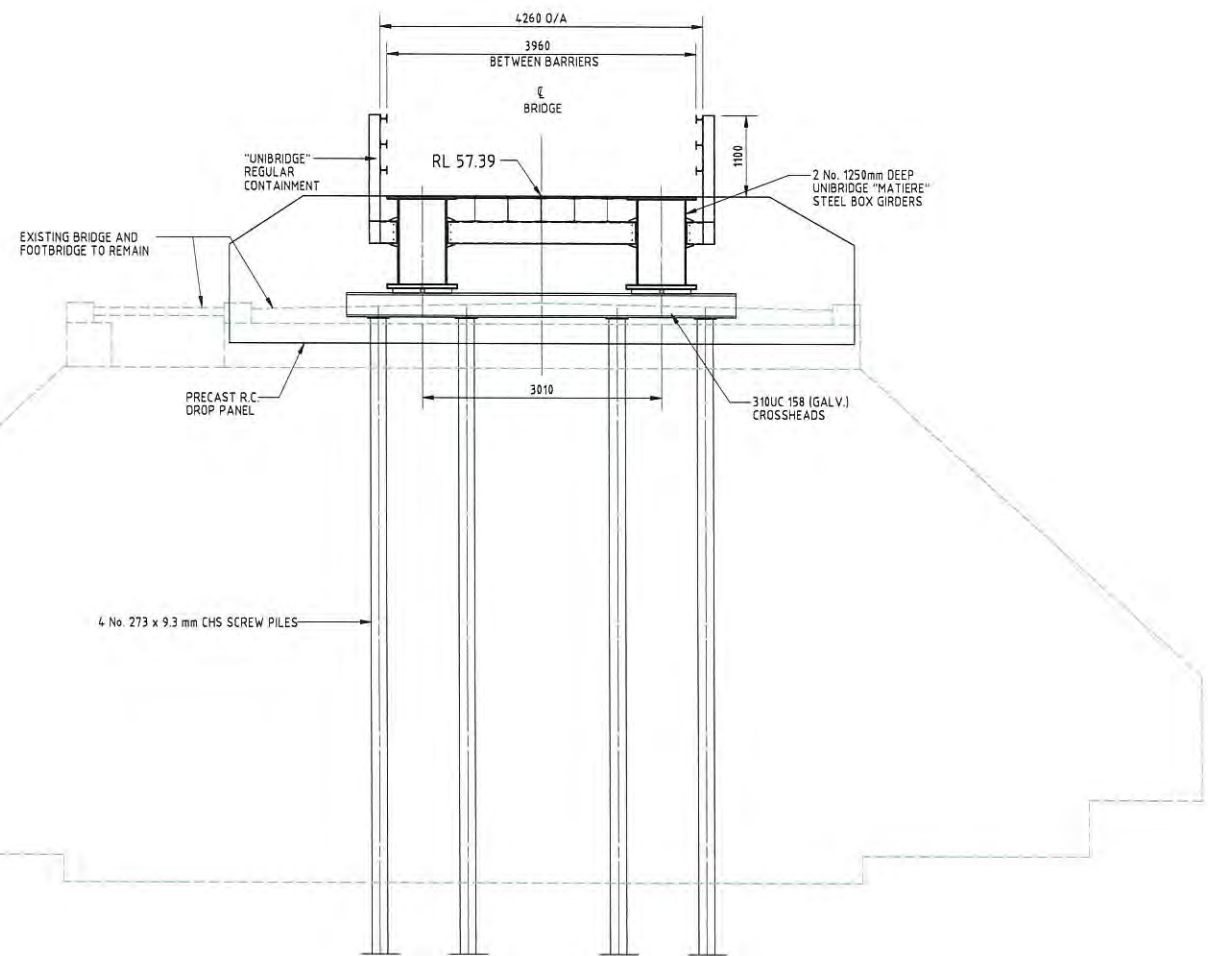
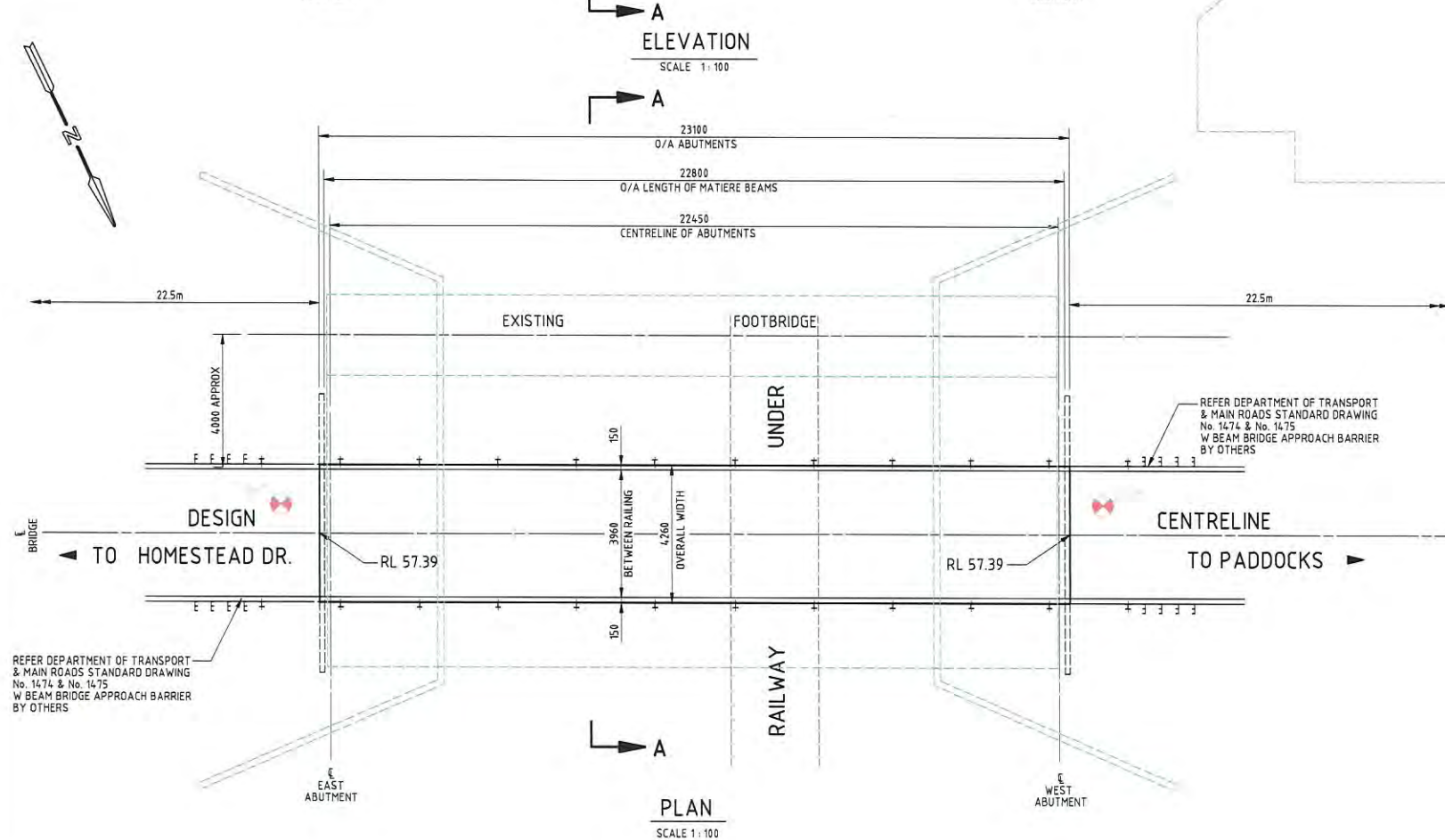
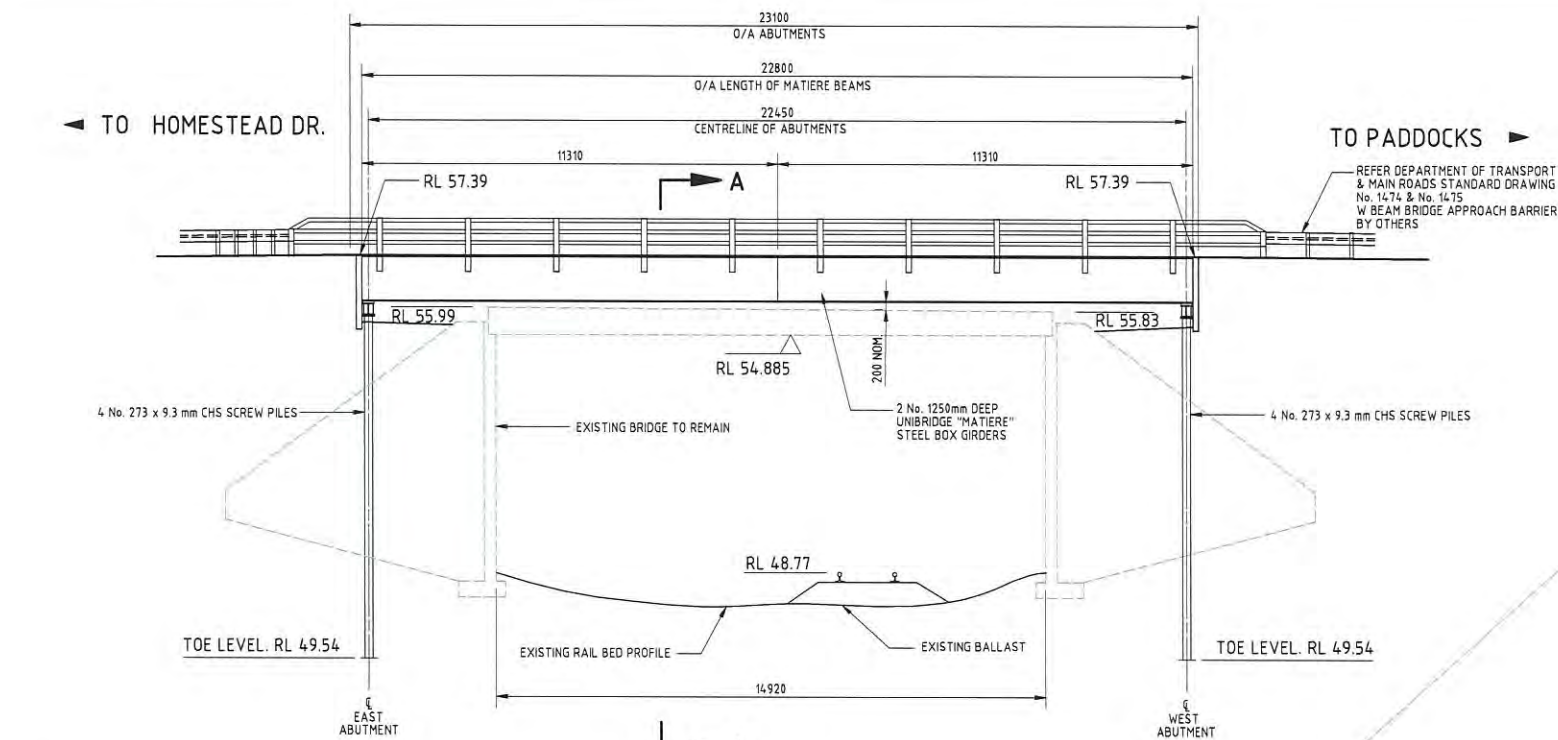
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1012345 100 (FULL SIZE A1)						SURVEYOR THG BRISBANE 261 564 8111 SCOTT MACKAY 261 564 8111 CAIRNS PROSPECTOR 261 564 8111 ENTER HERE TO GET A QUOTE 4/10/15 (12/12/14) 7/10/15 (12/12/14) 7/10/15 (12/12/14) 7/10/15 (12/12/14) Website: www.thg.com.au RPEQ 5023 Approved by on behalf of Bradlees 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 Bradlees. This drawing is not to be constructed from unless 'Issued for construction' is displayed and only where signed by an RPEQ. © Copyright SCI QUAL INTERPRETATION QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 REG. NO. 233 Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradleesmonhardt.com Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217 Brisbane Ph 07 3018 5034 Sunshine Coast Ph 07 5451 1994 Bradlees "Not a Bradlees" logo CLIENT PEET FLAGSTONE CITY PTY. LTD. <tr><td colspan="6">PROJECT</td><td colspan="6">TEMPORARY BRIDGE ROADWORKS</td></tr><tr><td colspan="6">STATUS</td><td colspan="6">LOGAN CITY COUNCIL</td></tr><tr><td colspan="6">TITLE</td><td colspan="6">ROAD CROSS SECTIONS - SHEET 2 OF 2</td></tr><tr><td colspan="2">DESIGNED</td><td colspan="2">DRAWN</td><td colspan="2">APPROVED</td><td colspan="2">DATE</td><td colspan="2">SCALE @ 1:100</td><td colspan="2">SHEET</td></tr><tr><td colspan="2">NM</td><td colspan="2">CD</td><td colspan="2">JH</td><td colspan="2">05.12.14</td><td colspan="2">1:100</td><td colspan="2">1 OF 1</td></tr><tr><td colspan="2">PROJECT NO</td><td colspan="2">DRAWING NO</td><td colspan="2">REV</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2">14 771</td><td colspan="2">007</td><td colspan="2">B</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr>										PROJECT						TEMPORARY BRIDGE ROADWORKS						STATUS						LOGAN CITY COUNCIL						TITLE						ROAD CROSS SECTIONS - SHEET 2 OF 2						DESIGNED		DRAWN		APPROVED		DATE		SCALE @ 1:100		SHEET		NM		CD		JH		05.12.14		1:100		1 OF 1		PROJECT NO		DRAWING NO		REV								14 771		007		B							
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- 3 MAR 2015

MEDQ

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

- GENERAL**
- DECK LEVELS ARE TO TOP OF STEEL.
 - THE CONTRACTOR SHALL ENSURE MINIMUM PILE BEARING RESISTANCE OF ULTIMATE LIMIT STATE LOAD PER PILE IS ACHIEVED PRIOR TO PILING TERMINATION. THE DESIGN LOADING SHALL BE VERIFIED WITH AN ADDITIONAL GEOTECHNICAL INVESTIGATION AND REPORT FOLLOWING FURTHER TESTING BOTH SIDES OF THE STREAM IN ACCORDANCE WITH ADVICE RECEIVED FROM CARDNO
 - DESIGN TRAFFIC LOAD: SM1600 TO AS 5100
 - BRIDGE CONTAINMENT BARRIER: REGULAR CONTAINMENT
- ALIGNMENT**
- CONTRACTOR SHALL CONFIRM ALL DIMENSIONS ON SITE PRIOR TO DEMOLISHING EXISTING BRIDGE AND COMMENCING CONSTRUCTION.
 - ABUTMENT CENTRELINES ARE PARALLEL.
 - DECK LEVELS ARE TO TOP OF STEEL.
- CONCRETE**
- CONCRETE STRENGTH GRADE SHALL BE 40MPa.
 - ALL CORNERS SHALL HAVE 20 x 20 mm FILLETS OR CHAMFERS UNLESS NOTED OTHERWISE.
 - EXPOSURE CLASSIFICATION FOR SURFACES OF CONCRETE SHALL BE INDICATED BELOW UNLESS NOTED ON THE DRAWING.
IN CONTACT WITH THE GROUND.....B1
ABOVE GROUND.....B1

DWG FILE NAME: 101114B-1.DWG
DATE PLOTTED: 15-01-2015

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All correspondence to:
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Telephone 03 5174 9911
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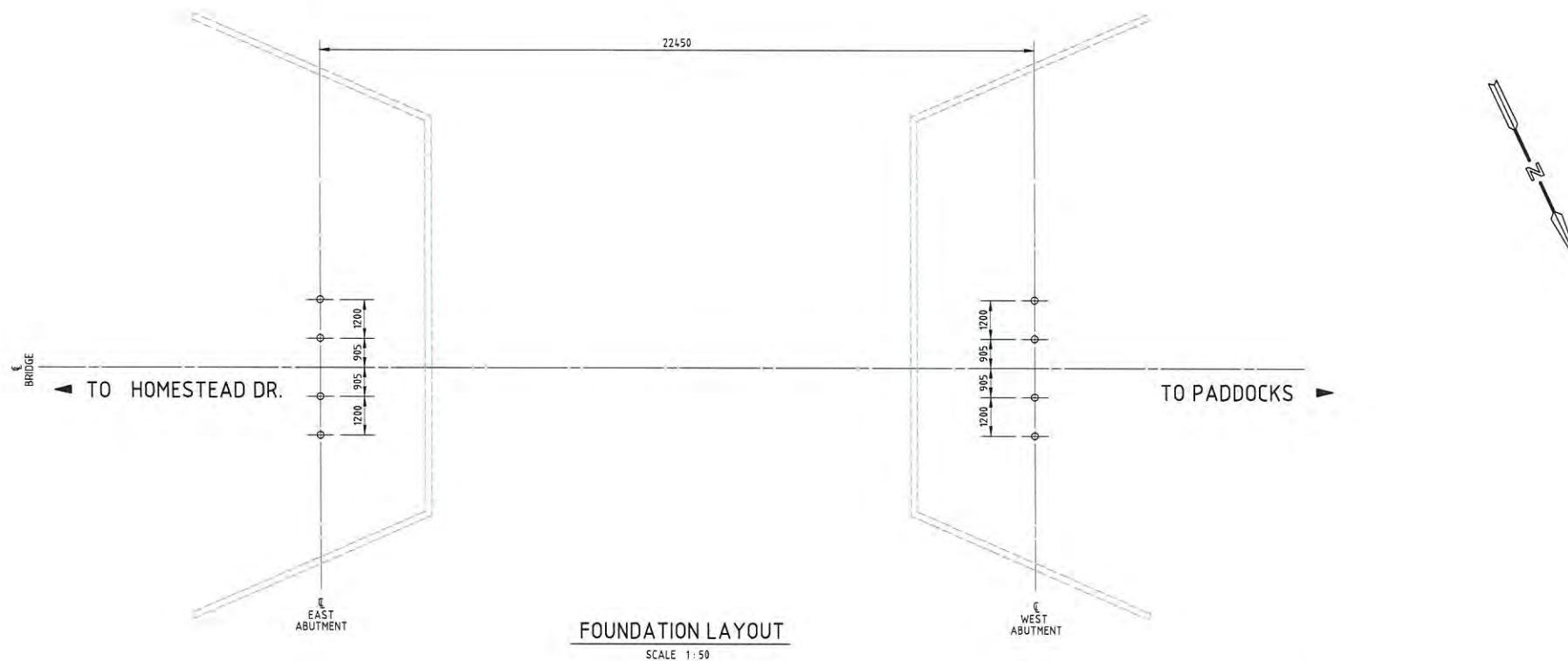
GENERAL ARRANGEMENT
PROJECT

HOMESTEAD DRIVE RAIL
OVERPASS TEMPORARY BRIDGE
AT FLAGSTONE, QLD

DATE
NOV 2014
SCALE
AS SHOWN AT A1
SHEET No.
1 OF 6
PROJECT No.
101114B

No.	REVISION	DATE	BY
B	NOTES UPDATED, BEAM CENTERS AMENDED, DECK LEVEL RAISED	15-01-15	LDM
A	ABUTMENT DESIGN ALT'D TO INCL. P.C.R.C. FENDERWALL	23-12-14	AMH

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FOUNDATION LAYOUT
SCALE 1:50

NOTE: CONTRACTOR TO CHECK BRIDGE ALIGNMENT
LOCATIONS PRIOR TO COMMENCING CONSTRUCTION

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
- 3 MAR 2015
MEDQ

PILE SCHEDULE						
LOCATION	TYPE	ULTIMATE (kN.)	SERVICEABILITY (kN.)	LENGTH (m)	NO. OFF	ULTIMATE BENDING MOMENT (kN-m.)
EAST ABUTMENT	273 CHS 9.3 mm THICK STEEL PILES	620	400	6.0 (MIN)	4	55
WEST ABUTMENT	273 CHS 9.3 mm THICK STEEL PILES	620	400	6.0 (MIN)	4	55

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

- NOTES**
FOUNDATIONS
1. THE PILE SHALL BE A MINIMUM OF 6.0m LONG INTO UNDISTURBED SOIL.
 2. ALL PILES ARE VERTICAL
 3. THE CONTRACTOR SHALL EXCAVATE AS REQUIRED FOR PILE DRIVING PURPOSES.
- GENERAL**
4. ABUTMENT CENTRELINES ARE PARALLEL.
 5. THE CONTRACTOR SHALL ENSURE MINIMUM PILE BEARING RESISTANCE OF ULTIMATE LIMIT STATE LOAD PER PILE IS ACHIEVED PRIOR TO PILING TERMINATION.
 6. SHOULD THE CONTRACTOR VARY THE PILE DESIGN AS DOCUMENTED HEREON, THEN THE CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR ANY OTHER PILE DESIGN AND ANY ASSOCIATED GEOTECHNICAL REPORT. THIS COMPANY SHALL NOT BE RESPONSIBLE FOR ANY ALTERNATIVE PILE DESIGN AND FOUNDATION ASSESSMENT SUPPLIED BY OTHERS.

DWG FILE NAME: 101114B-2.DWG
DATE PLOTTED: 15-01-2015

B	NOTES UPDATED, PILE CENTERS AMENDED	15-01-15	LDM	
A	ABUTMENT DESIGN ALT'D TO INCL. P.C.R.C FENDERWALL	23-12-14	AMH	
No.	REVISION	DATE	BY	

DATE	ISSUED TO	COPIES	BY	

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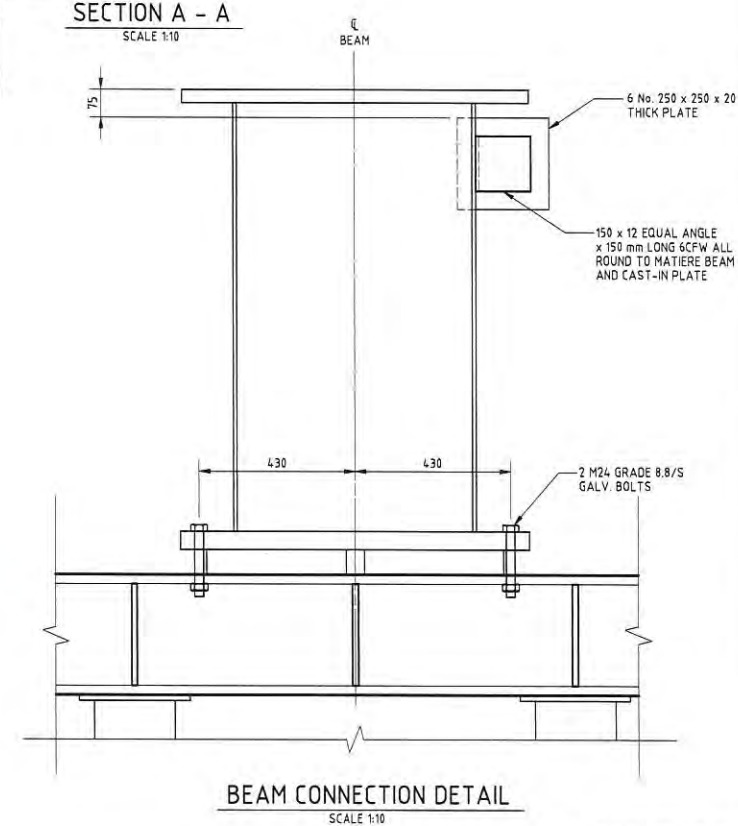
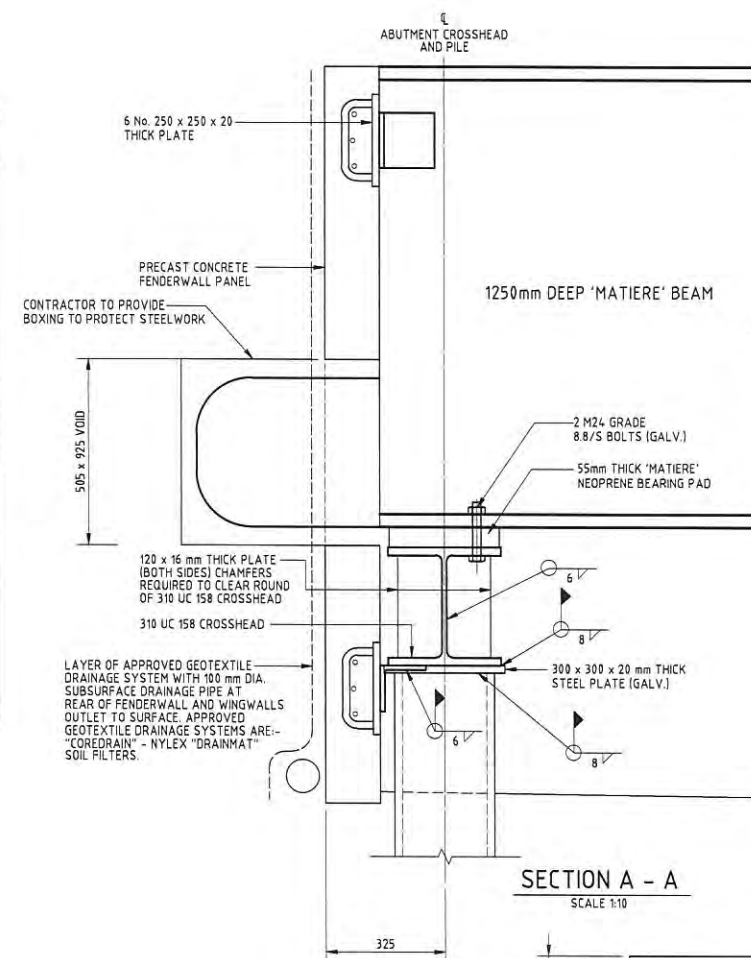
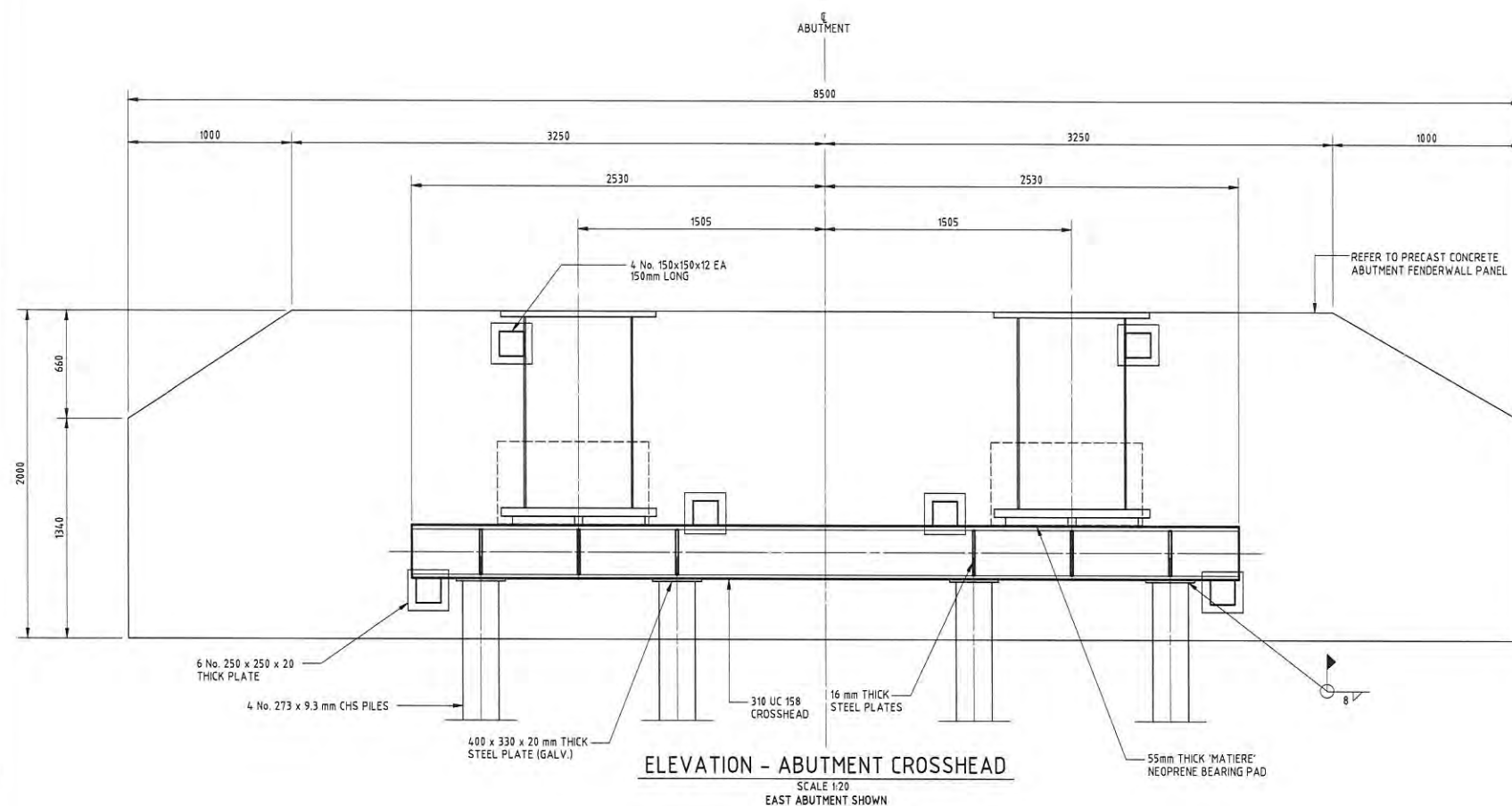
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FOUNDATION LAYOUT AND ABUTMENT DETAILS
PROJECT
HOMESTEAD DRIVE RAIL
OVERPASS TEMPORARY BRIDGE
AT FLAGSTONE, QLD

DATE
NOV 2014
SCALE
AS SHOWN AT A1
SHEET No.
2 OF 6
PROJECT No.
101114B



NOTES

GENERAL

- HOT ROLLED SECTIONS SHALL BE GRADE 300 PLUS
- ALL STEELWORK TO BE GRADE 250 TO AS 3678
- AFTER FABRICATION ALL SURFACES SHALL BE ZINC-IN-SILICATE COATED. REFER SPECIFICATION.
- DAMAGED SURFACE COATING SHALL BE MADE GOOD BY SPOT PAINTING WITH ZINC-IN-SILICATE.
- WELDING SHALL BE IN ACCORDANCE WITH AS 1554 - PART 1
- WELDING SHALL BE CATEGORY SP FOR ALL WELDS.
- ELECTRODES SHALL BE E41XX TO AS 4855
- BOLTS, NUTS AND WASHERS SHALL BE TO AS 1252 GRADE 8.8/S.

PLATES

- ALL SURFACES OF STEEL PLATES SHALL BE GIVEN ONE COAT OF ZINC-IN-SILICATE PAINT AFTER FABRICATION.
- PLATES SHALL NOT VARY FROM FLAT BY MORE THAN 0.2 mm PER 100 mm AFTER GALVANIZING.
- STEEL FOR PLATES SHALL COMPLY WITH AS 3678 - GRADE 250

PLAN - FENDER WALL AND WINGWALL

SCALE 1:20
EAST ABUTMENT SHOWN

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
- 3 MAR 2015
MEDQ

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EAST ABUTMENT FENDERWALL DETAILS

PROJECT

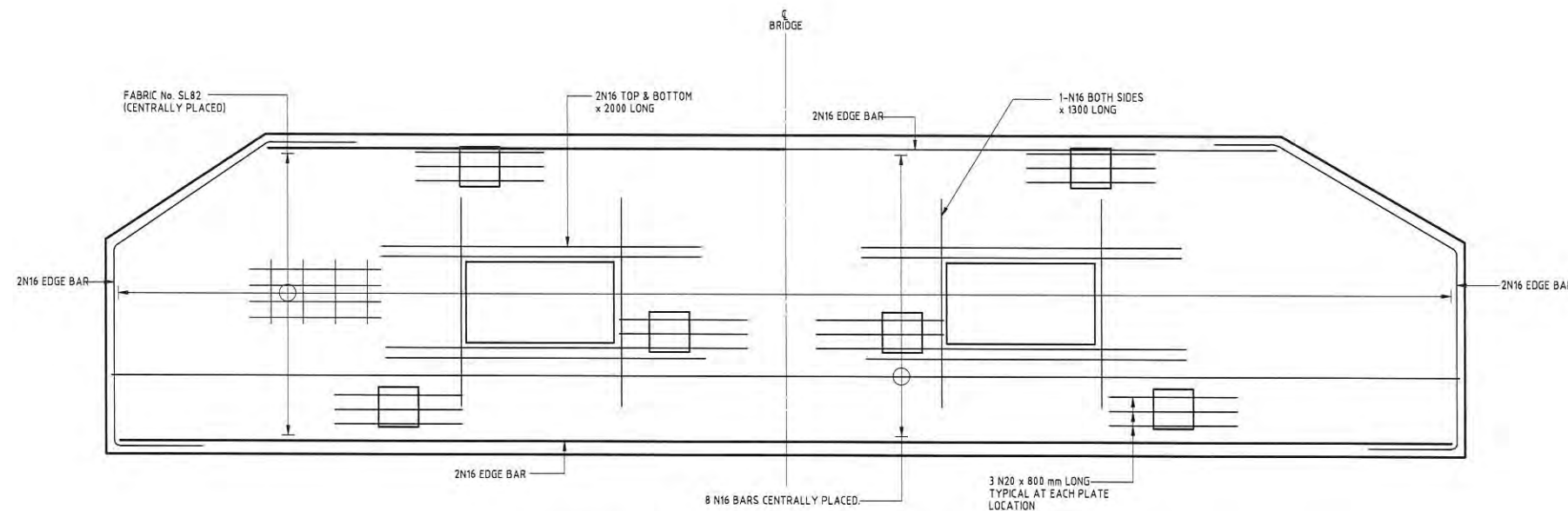
HOMESTEAD DRIVE RAIL
OVERPASS TEMPORARY BRIDGE
AT FLAGSTONE, QLD

DATE
NOV 2014
SCALE
AS SHOWN AT A1
SHEET No.
3 OF 6
PROJECT No.
101114B

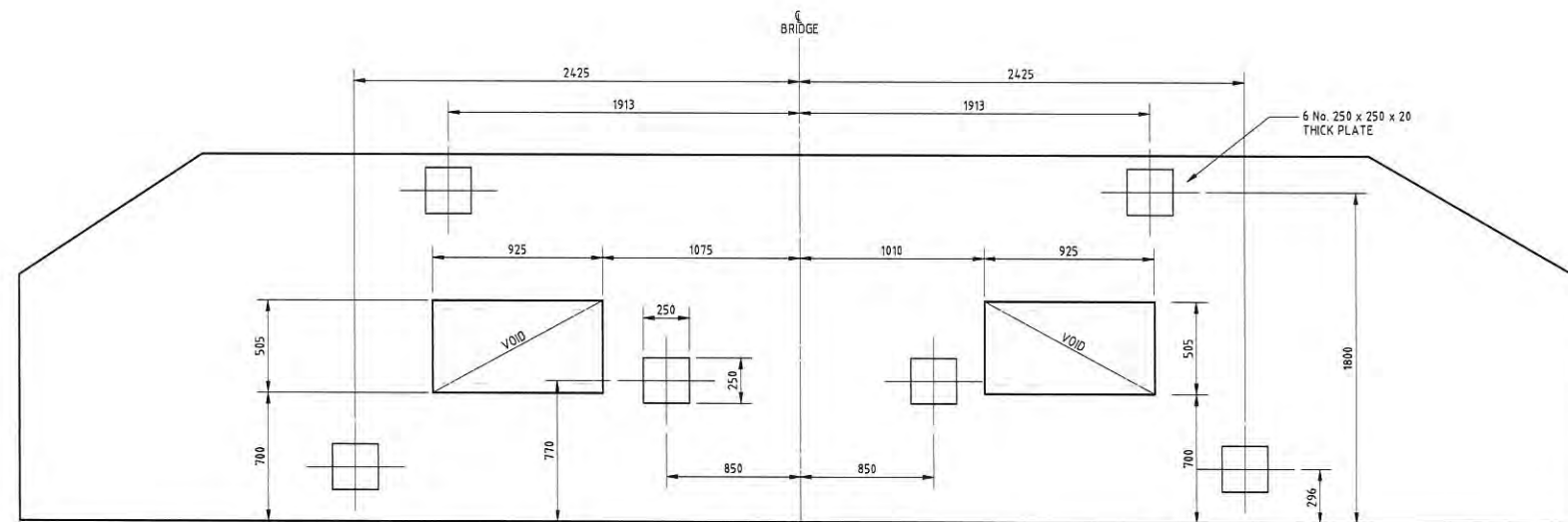
DWG FILE NAME: 101114B-3.DWG
DATE PLOTTED: 15-01-2015

No.	REVISION	DATE	BY
B	NOTES UPDATED, FULL LINE SHOWN ON SECTION A-A, BEAM CENTERS AMENDED	15-01-15	LDH
A	ABUTMENT DESIGN ALT'D TO INCL. P.C.R.F. FENDERWALL	23-12-14	AMH

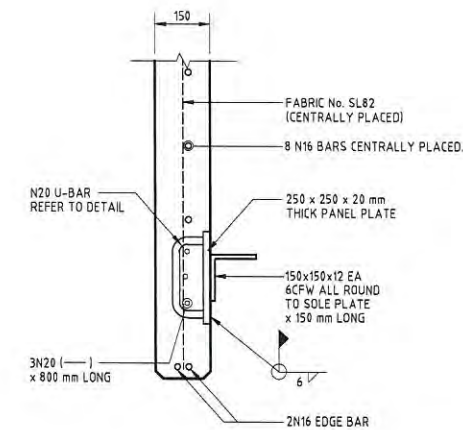
DATE	ISSUED TO	COPIES	BY



ELEVATION - PRECAST FENDERWALL REINFORCEMENT
1 No. REQUIRED
SCALE 1:20



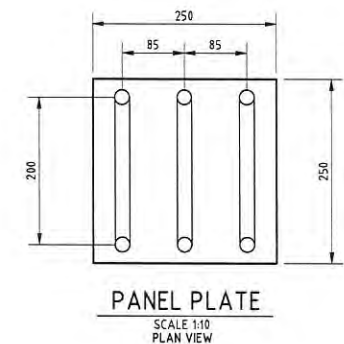
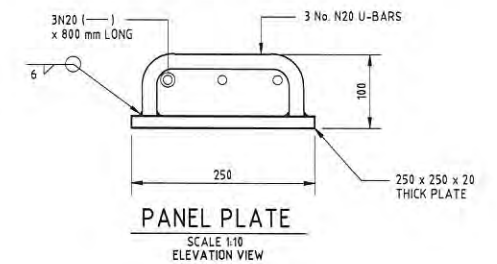
ELEVATION - PRECAST FENDERWALL PANEL
1 No. REQUIRED
SCALE 1:20
NOTE: LUGS SHOWN FOR CLARITY



SECTION A - A
SCALE 1:10

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
- 3 MAR 2015
MEDQ

NOTE IMPORTANTLY:
CONTRACTOR TO CHECK MEASURE AND CONFIRM ONSITE
EXACT VOID MEASUREMENTS PRIOR TO CONSTRUCTION
OF PRECAST FENDERWALL PANEL.



NOTES

CONCRETE

1. CONCRETE STRENGTH GRADE SHALL BE 40MPa.
2. ALL CORNERS SHALL HAVE 20 x 20 mm FILLETS OR CHAMFERS UNLESS NOTED OTHERWISE.

REINFORCEMENT

3. COVER : - CLEAR COVER SHALL BE 45mm UNLESS NOTED OTHERWISE.
4. SPACING : - TAKEN AS EQUAL UNLESS NOTED OTHERWISE.
5. GRADE : - 500 (N) HOT ROLLED DEFORMED BARS TO AS/NZS. 4671.
6. WELDING : - SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE.

STEELWORK

7. STEEL SHALL BE GRADE 250 TO AS 3678.
8. AFTER FABRICATION ALL SURFACES SHALL BE GIVEN ONE COAT OF ZINC-IN-SILICATE PAINT.
9. DAMAGED SURFACE COATING SHALL BE MADE GOOD BY SPOT PAINTING WITH ZINC-IN-SILICATE.
10. WELDING AND WELD PREPARATION SHALL BE IN ACCORDANCE WITH AS 1554.1. 2014.
11. ELECTRODES SHALL BE E41XX TO AS 4855.
12. GRADE 8.8/5 BOLTS, NUTS AND WASHERS TO AS. 1252 GALVANIZED TO AS/NZ 4680 UNLESS OTHERWISE NOTED.
13. COUPLER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

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DATE PLOTTED: 15-01-2015

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EAST ABUTMENT FENDERWALL REINFORCEMENT DETAILS

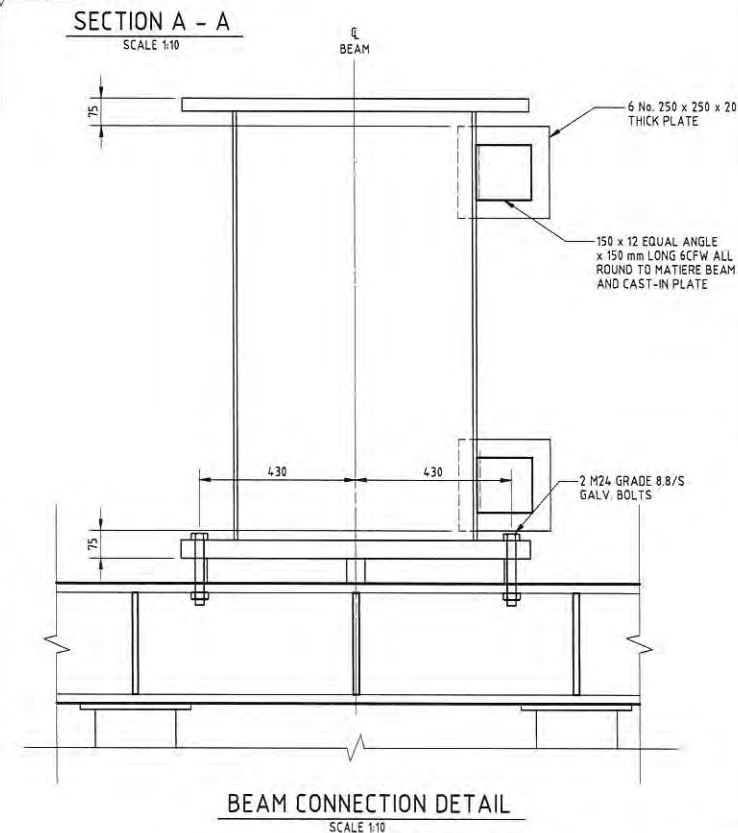
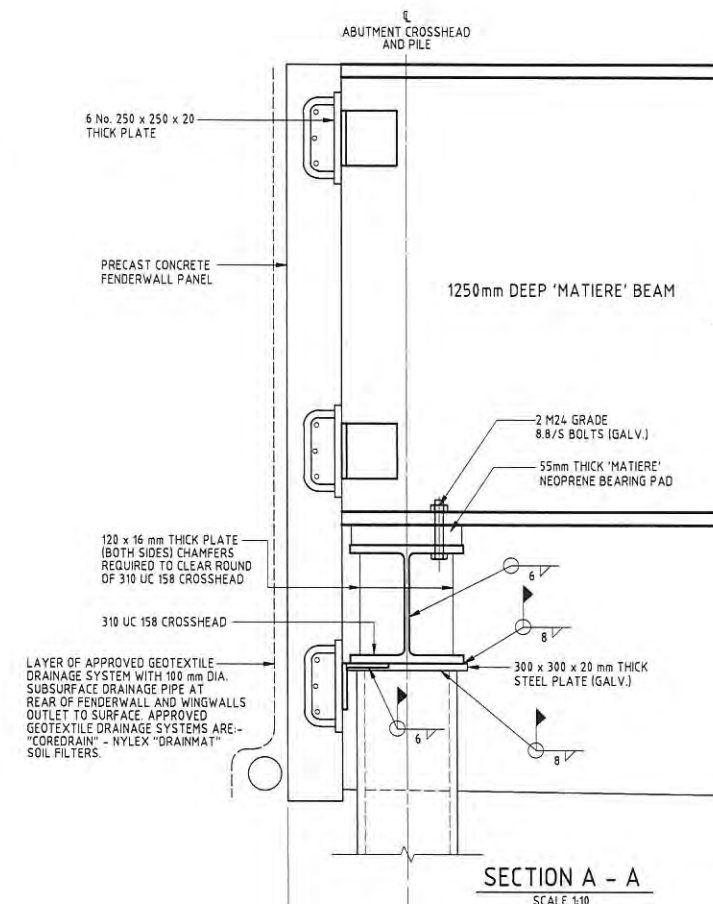
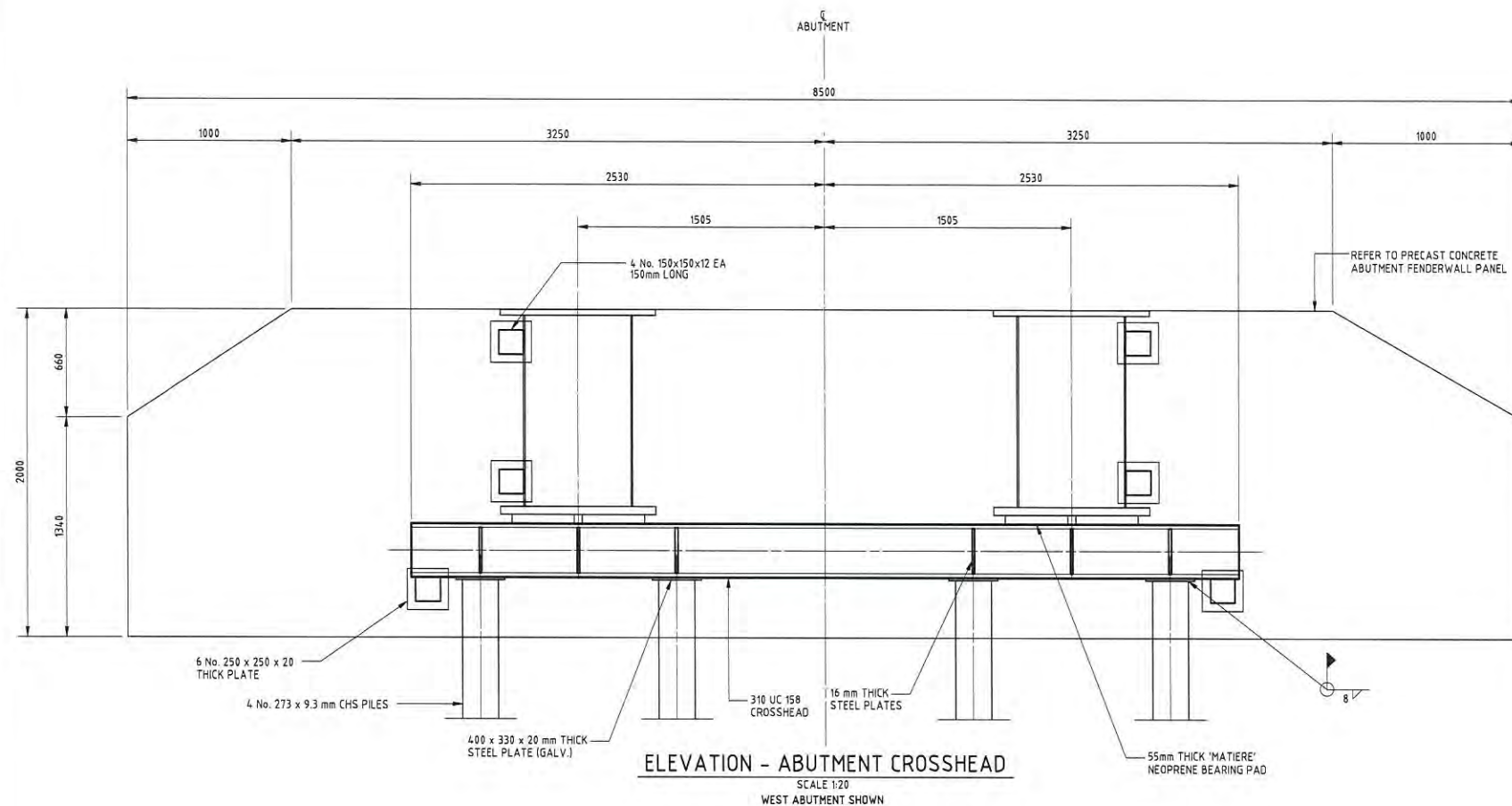
PROJECT

HOMESTEAD DRIVE RAIL
OVERPASS TEMPORARY BRIDGE
AT FLAGSTONE, QLD

DATE
NOV 2014
SCALE
AS SHOWN
SHEET No.
4 OF 6
PROJECT No.
101114B

No.	REVISION	DATE	BY
B	NOTES UPDATED, VOIDS ADDED TO FENDERWALL PANEL	15-01-15	LOH
A	ABUTMENT DESIGN ALT'D TO INCL. P.C.R.C. FENDERWALL	23-12-14	AMH

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NOTES

GENERAL

- HOT ROLLED SECTIONS SHALL BE GRADE 300 PLUS
- ALL STEELWORK TO BE GRADE 250 TO AS 3678
- AFTER FABRICATION ALL SURFACES SHALL BE ZINC-IN-SILICATE COATED. REFER SPECIFICATION
- DAMAGED SURFACE COATING SHALL BE MADE GOOD BY SPOT PAINTING WITH ZINC-IN-SILICATE.
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- PLATES
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- PLATES SHALL NOT VARY FROM FLAT BY MORE THAN 0.2 mm PER 100 mm AFTER GALVANIZING.
- STEEL FOR PLATES SHALL COMPLY WITH AS 3678 - GRADE 250

PLAN - FENDER WALL AND WINGWALL

SCALE 1:20
WEST ABUTMENT SHOWN

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

- 3 MAR 2015

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DWG FILE NAME: 101114B-5.DWG
DATE PLOTTED: 15-01-2015

No.	REVISION	DATE	BY
B	NOTES UPDATED, FILL LINE SHOWN ON SECTION A-A	15-01-15	LDM
A	ABUTMENT DESIGN ALT'D TO INCL. P.C.R.E FENDERWALL	23-12-14	AMH

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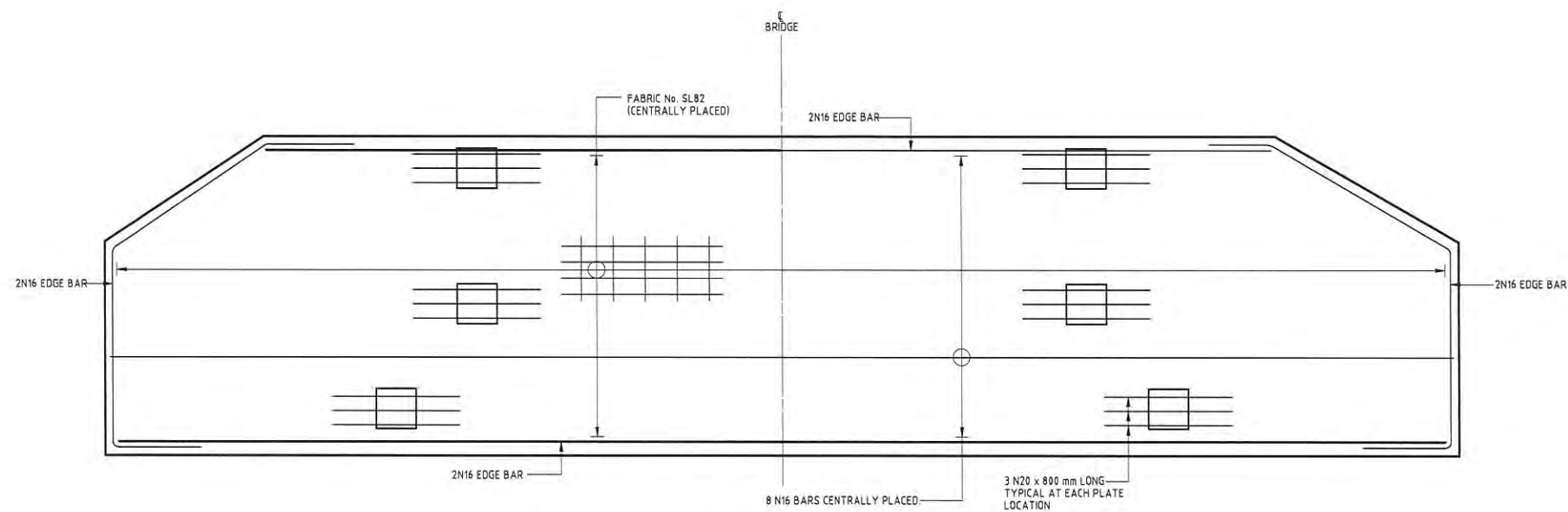
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WEST ABUTMENT FENDERWALL DETAILS

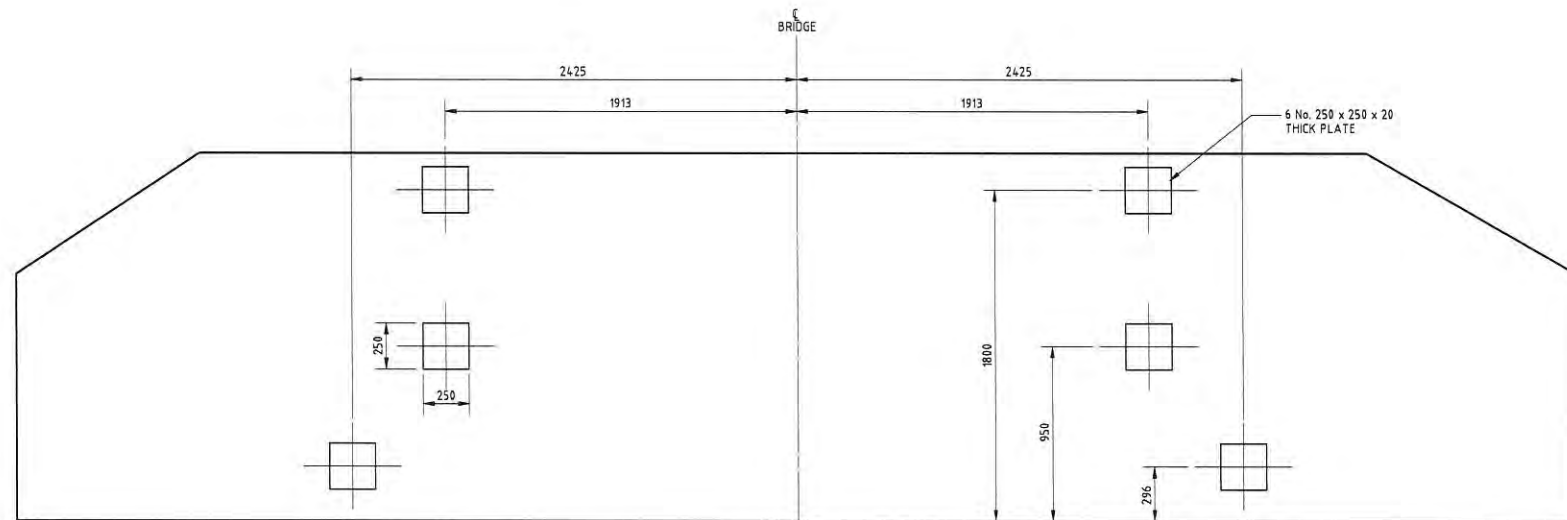
PROJECT

HOMESTEAD DRIVE RAIL
OVERPASS TEMPORARY BRIDGE
AT FLAGSTONE, QLD

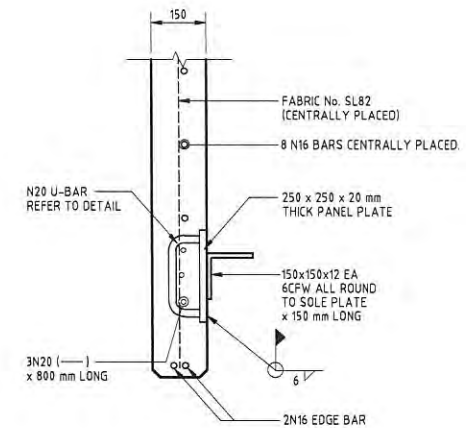
DATE
NOV 2014
SCALE
AS SHOWN AT A1
SHEET No.
5 OF 6
PROJECT No.
101114B



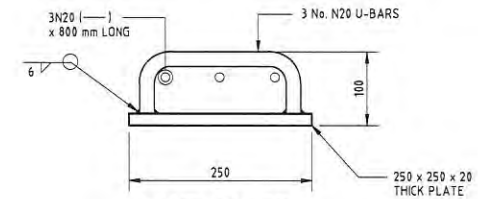
ELEVATION - PRECAST FENDERWALL REINFORCEMENT
1 No. REQUIRED
SCALE 1:20



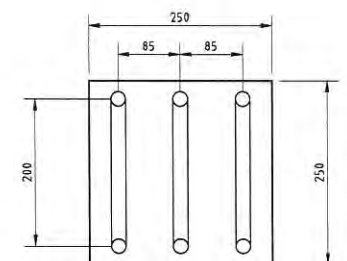
ELEVATION - PRECAST FENDERWALL PANEL
1 No. REQUIRED
SCALE 1:20



SECTION A - A
SCALE 1:10



PANEL PLATE
SCALE 1:10
ELEVATION VIEW



PANEL PLATE
SCALE 1:10
PLAN VIEW

NOTES

CONCRETE

1. CONCRETE STRENGTH GRADE SHALL BE 40MPa.
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REINFORCEMENT

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6. WELDING : - SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE.

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13. COUPLER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
- 3 MAR 2015
MEDQ

DWG FILE NAME: 101114B-6.DWG
DATE PLOTTED: 15-01-2015

No.	REVISION	DATE	BY
B	NOTES UPDATED, DIMENSIONS ADDED	15-01-15	LDH
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DESIGNED	PROJECT	SCALE
NRR		AS SHOWN
CHECKED		SHEET No.
COB		6 OF 6
SIGNED		PROJECT No.
		101114B

HOMESTEAD DRIVE RAIL
OVERPASS TEMPORARY BRIDGE
AT FLAGSTONE, QLD