

QUU AND CONSTRUCTOR LIVE SEWER WORKS

CONSULTING ENGINEERS ARE TO CONTACT QUEENSLAND URBAN UTILITIES 24 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION ON PHONE 13 26 57 TO ARRANGE FOR THIS WORK TO BE CARRIED OUT.

(EXCAVATION, SAFE SHORING & ASSOCIATED WORKS BY CONTRACTOR)

EXCAVATION WORKS CARRIED OUT BY CONSTRUCTORS AT DEPTHS OF 1.5m OR GREATER MUST PROVIDE A 'SAFE WORK PLAN' AS PER WORKPLACE HEALTH AND SAFETY LEGISLATION TO QUU PRIOR TO COMMENCING ANY WORKS.

IT IS, THE DEVELOPERS RESPONSIBILITY TO ENSURE ALL LIVE SEWER WORKS ARE COMPLETE BEFORE ALLOWING PRIVATE DRAINAGE TO BE CONNECTED.

CONTRACTOR

CONSTRUCTOR TO REQUEST LIVE WORKS PRIOR TO COMMENCEMENT OF CONSTRUCTION IF REQUIRED	LIVE WORKS:	QUEENSLAND URBAN UTILITIES. PH: 13 26 57							
COSTRUCTOR TO CONFIRM SEWER WORK START DATE AND BOOK INSPECTION TIMES (MIN TWO[2] WORKING DAYS NOTICE REQUIRED)	INSPECTION:	QUU DELEGATE							
CONSTRUCTOR TO CONSTRUCT SEWER WORKS AND ARRANGE INSPECTIONS AS REQUIRED. A FIELD INSPECTION REPORT WILL BE ISSUED UPON SUCCESSFUL "ON MAINTENANCE" INSPECTION AND COLLECTION OF "AS CONSTRUCTED" INFORMATION BY THE MINOR SEWER WORKS INSPECTION UNIT.	INSPECTION:	QUU DELEGATE							
CONSTRUCTOR IS REQUIRED TO FORWARD A COPY OF THE FIELD INSPECTION REPORT TO QUEENSLAND URBAN UTILITIES TO CONFIRM SEWER WORKS ARE ACCEPTABLE AND REQUEST LIVE WORKS TO COMPLETE SEWER WORKS.	LIVE WORKS:	QUEENSLAND URBAN UTILITIES PH: 13 26 57							

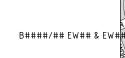
No.	DESCRIPTION	DIA SEWER	MH No.	MH/MS TYPE	COVER TYPE	LOT No.	F.S.L.	E.S.L.	I.L.	DEPTH
1)	CONSTRUCTOR TO CUT EXISTING END AND INSTALL PUDDLE FLANGE ON EXISTING VC PIPE WHERE IT WILL BE LOCATED IN NEW MANHOLE WALL THEN INSTALL TEMPORARY PIECE OF CAPPED PVC PIPE. CONSTRUCTOR TO BUILD NEW MH WITH WALL LOCATED OVER PUDDLE FLANGE. CONSTRUCTOR TO REMOVE PVC PIPE AND COMPLETE BENCHING AFTER SUCCESSFUL ON MAINTENANCE INSPECTION. REFER LIVE CONNECTION 1 DETAIL.	160 PE100	2 /7	END	N/A	LOT65 RD4/WENDON WAY	33.856	33.856	31.420	2.436

CERTIFICATION OF AS-CONSTRUCTED WORKS BY SURVEYOR

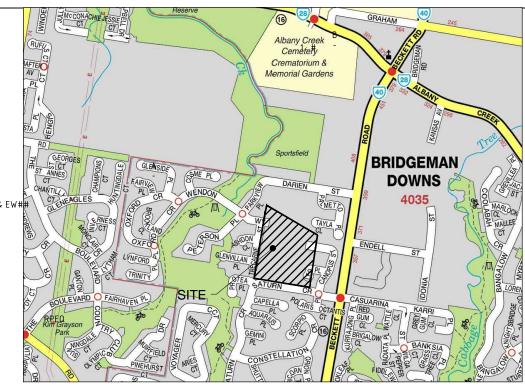
IUEENSLAND SURVEYING SOLUTIONS PTY LTD DO CERTIFY THAT THE AS CONSTRUCTED DATA AND PLANS ROVIDED TO PENSAR CONSTRUCTIONS GROUP (AS THE PRINCIPAL CIVIL CONTRACTOR) FOR THE EVELOPMENT AT 26 DARIEN STREEST, BRIDGEMAN DOWNS IS A TRUE AND ACCURATE REFLECTION OF THE WORKS COMPLETED ON SITE. WE CONFIRM THAT ALL DATA AND PLANS HAVE DEED PRESENTED USII HE CORRECT DATUM AND ORIENTATION APPROPRIATE TO THE SITE IN A FORMAT AS REQUIRED BY THE

SIGNATURE JOHN DONALD O'BRIEN

DULY AUTHORISED ON BEHALF OF QUEENSLAND SURVEYING SOLUTIONS PTY LTD



ENGINEER



LOCALITY PLAN

MAP GRID No. 118 Q4

GENERAL NOTES:

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND AND SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THESE DRAWINGS SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO QUEENSLAND URBAN UTILITIES (Q.U.U.) SEWERAGE SYSTEM.
- ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY THE CONTRACTOR UNDER THE SUPERVISION OF QUEENSLAND URBAN UTILITIES AT THE DEVELOPER'S COST UNLESS OTHERWISE SPECIFIED BY QUU.
- ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
- EACH ALLOTMENT SHALL BE SERVED BY A DN110 PE (OR DN100 PVC) PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 PE (OR DN150 PVC) PROPERTY CONNECTION SHALL BE PROVIDED.
- PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS
- PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm
- WHERE PIPES ARE LAID IN FILL. THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE DRY DENSITY IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY Q.U.U. UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
- WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SED SEWER CODE
- THE CONTRACTOR IS TO VERIFY LOCATIONS OF EXISTING SERVICES WITH ALL RELEVANT AUTHORITIES BEFORE COMMENCING WORKS
- SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWER CODE
- 13. BENCH MARK AND LEVELS TO AHD

ENVIRONMENTAL NOTES VEGETATION PROTECTION

TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES

- SHOULD BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- TREE ROOTS SHALL BE TUNNELED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED, THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST

- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

CREEK CROSSINGS

- A. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
- NO SOIL SHOULD BE STOCKPILED WITHIN 5m OF THE CREEK

REHABILITATION

- A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS ARE TO BE REINSTATED.
- PREDISTURBANCE VEGETATION PATTERNS SHOULD BE RESTORED.

A. THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION

EXISTING VC PIPE WITH NEW PUDDLE ELANGE 27/02/2015 LOCATED IN MH WALL EXISTING VC PIPE TO BE REMOVED TO SUIT MH LOCATION LINE 7 NEW PIPE LIVE CONNECTION 1 DETAIL

ENDORSED BY: TREAT CONSULTAN TOM McKINNEY , certify the works have been completed generally in accordance with the

AS-CONSTRUCTED

approved design.

THESE WORKS ARE CONSIDERED MAJOR WORKS THAT MUST BE SUPERVISED BY A CONSULTING ENGINEER WITH RPEQ ACCREDITATION. THE CONSULTING ENGINEER IS TO ARRANGE A PRESTART MEETING BY CONTACTING ASSURANCE@URBANUTILITIES.COM.AU CONSULTING ENGINEER MUST GIVE 48HRS NOTICE FOR INSPECTION.

FOR MAINTENANCE OF EXISTING VEGETATION & REMOVAL WHERE PERMITTED, REFER TO APPROVED VEGETATION MANAGEMENT PLAN & NAL PERMITS

CONSULTANT: JFP URBAN CONSULTANTS PTY LTD CONTACT: MR. TOM MCKINNEY TELEPHONE: 3012 0100

PLEASE NOTE:

Services locations and dimensions are indicative only and may be subject to change.

These plans do not detail the exact location of services. Mirvac does not provide any warranty as to the accuracy or completeness of the nformation and some constructed services may not be shown. Therefore it is vital that all services are located on site by a suitably quali-

Mirvac will not be responsible for any loss, damage or costs incurred as a result of any errors or omissions in relation to the material in this document or for any possible actions ensuing from information contained in the document.

> THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE AS CONSTRUCTED ISSU QUU AMENDMENTS FOR APPROVAL ORIGINAL ISSUE FOR COUNCIL

SEWERAGE RETICULATION **DETAILS PLAN SHEET 1 of 3**

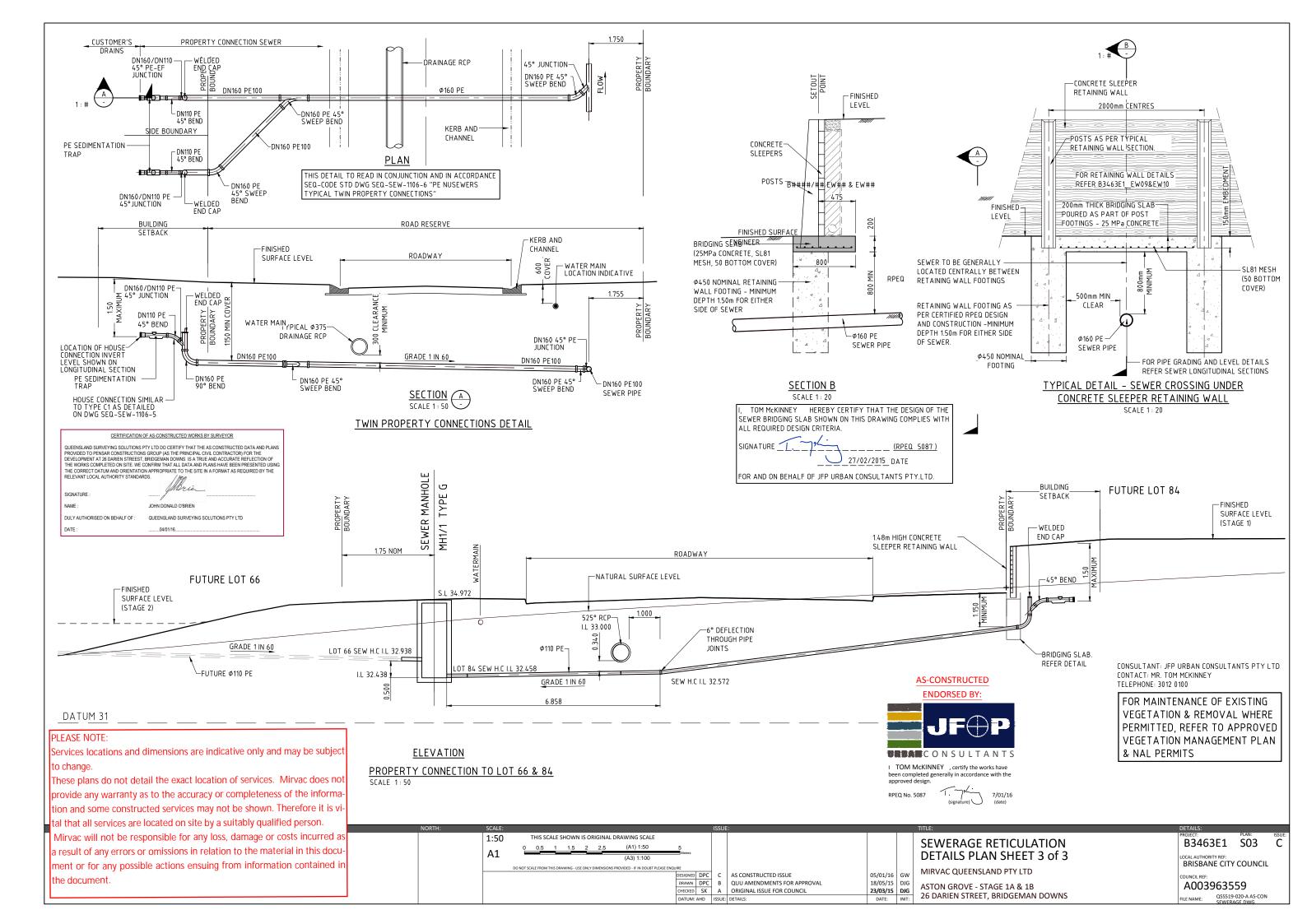
MIRVAC QUEENSLAND PTY LTD

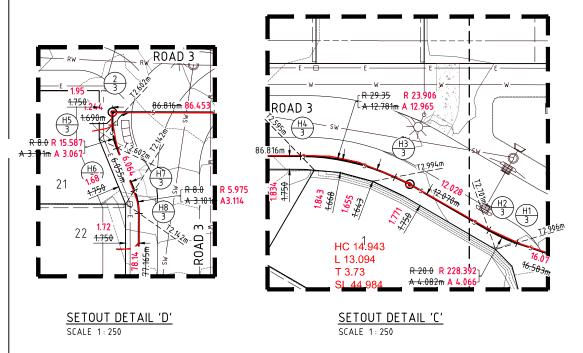
18/05/15 DJG

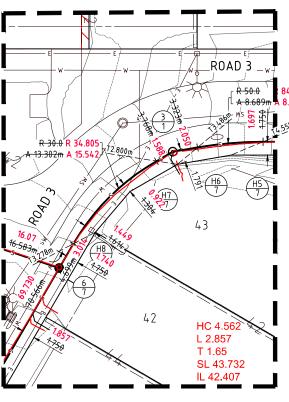
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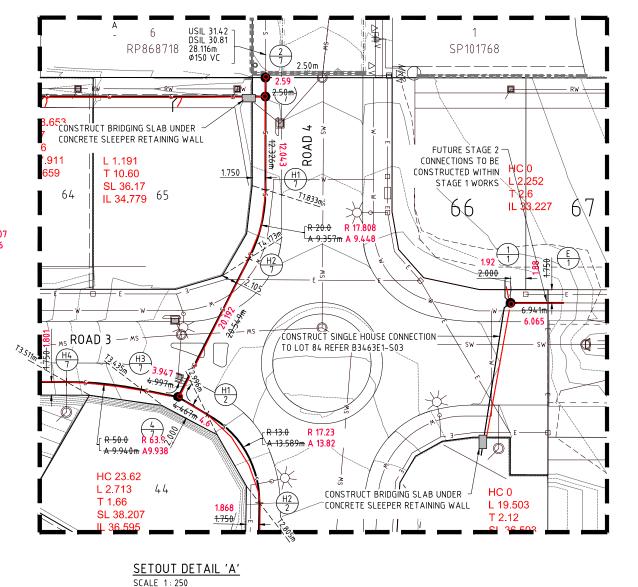
ASTON GROVE - STAGE 1A & 1B 26 DARIEN STREET, BRIDGEMAN DOWNS B3463E1 S02 BRISBANE CITY COUNCIL

A003963559









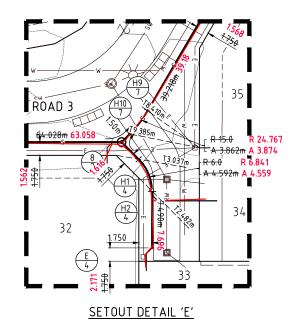
SETOUT DETAIL 'B' SCALE 1: 250

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SCALE 1:250

CERTIFICATION OF AS-CONSTRUCTED WORKS BY SURVEYOR

QUEENSLAND SURVEYING SOLUTIONS PTY LTD DO CERTIFY THAT THE AS CONSTRUCTED DATA AND PLANS
PROVIDED TO PENSAR CONSTRUCTIONS GROUP (AS THE PRINCIPAL CIVIL CONTRACTOR) FOR THE

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RELEVANT LOCAL AUTHORITY STANDARDS.

SIGNATURE:

JOHN DONALD O'BRIEN

QUEENSLAND SURVEYING SOLUTIONS PTY LTD

AS-CONSTRUCTED
ENDORSED BY:

UPDATE CONSULTANTS

I TOM McKINNEY, certify the works have been completed generally in accordance with the approved design.

CONSULTANT: JFP URBAN CONSULTANTS PTY LTD CONTACT: MR. TOM MCKINNEY

TELEPHONE: 3012 0100

DULY AUTHORISED ON BEHALF OF

NAME :

SEWERAGE RETICULATION DETAILS PLAN SHEET 3 of 3

MIRVAC QUEENSLAND PTY LTD

ASTON GROVE - STAGE 1A & 1B

26 DARIEN STREET, BRIDGEMAN DOWNS

DETAILS:
PROJECT: PLAN: IS
B3463E1 S04
LOCAL AUTHORITY REF:
BRISBANE CITY COUNCIL

COUNCIL REF:
A003963559

OSS519-020-A AS-C

