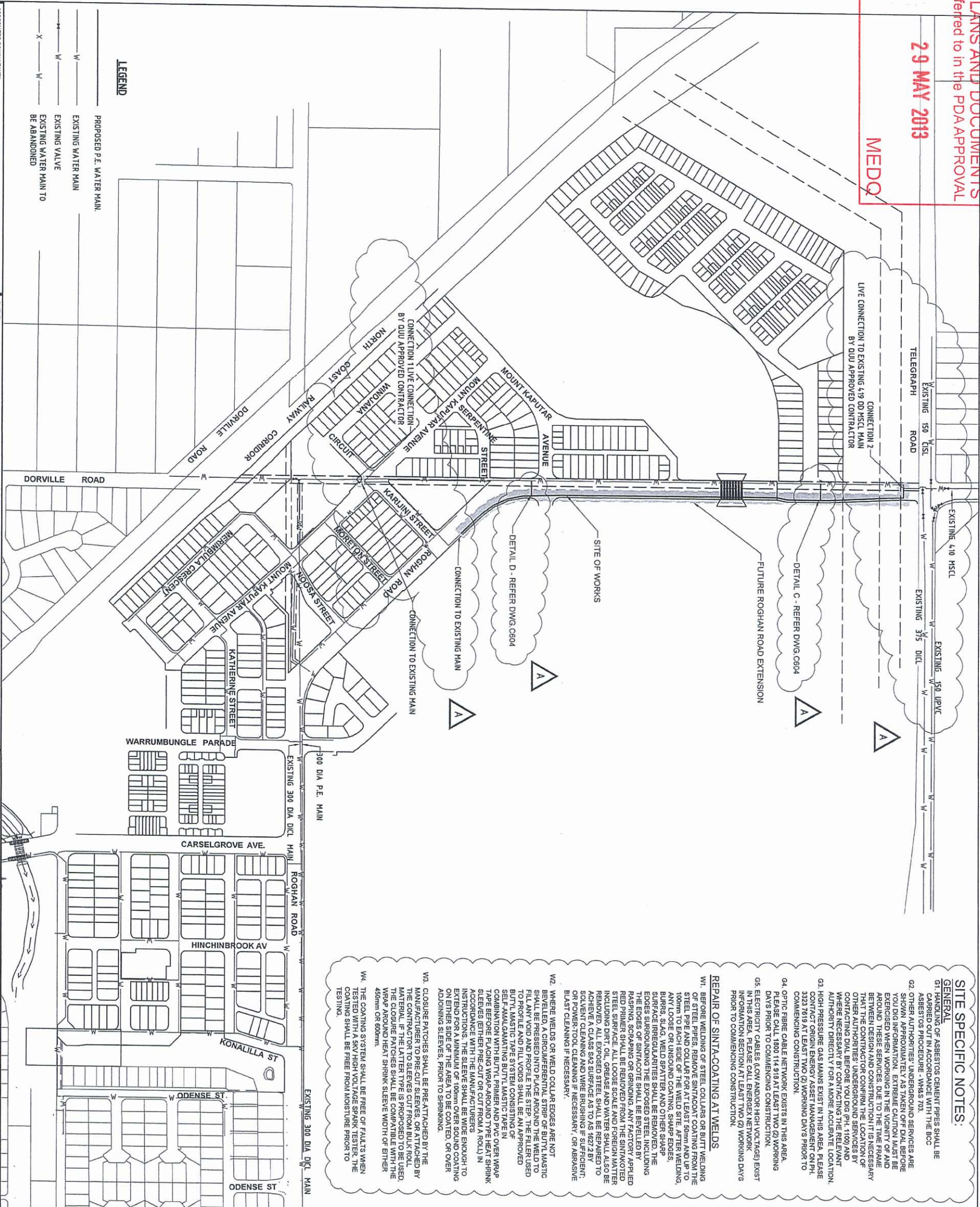


29 MAY 2013

MEDQ



SITE SPECIFIC NOTES:

- GENERAL
1. HANDLING OF ASBESTOS CEMENT PIPES SHALL BE IN ACCORDANCE WITH THE BOC ASBESTOS PROCEDURE - WMS 703
 2. OTHER AUTHORITIES' UNDERGROUND SERVICES ARE SHOWN APPROXIMATELY AS TAKEN OFF DAI BEFORE YOU DIG INFORMATION. EXTREME CAUTION MUST BE EXERCISED WHEN WORKING IN THE VICINITY OF AND AROUND THESE SERVICES. DUE TO THE TIME FRAME BETWEEN DESIGN AND CONSTRUCTION IT IS NECESSARY THAT THE CONTRACTOR CONFIRM THE LOCATION OF OTHER AUTHORITIES' UNDERGROUND SERVICES BY OTHER MEANS BEFORE YOU DIG (PH, 100 AND WHERE NECESSARY, BY EXCAVATION AND VISUAL INSPECTION) DIRECTLY FOR A MORE ACCURATE LOCATION.
 3. HIGH PRESSURE GAS MAINS EXIST IN THIS AREA. PLEASE CONTACT GAS MANAGEMENT OFFICE, PH. 3323 7619 AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION.
 4. OPTIC FIBRE CABLE NETWORK EXISTS IN THIS AREA. PLEASE CALL 1800 114 616 AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION.
 5. ELECTRICITY CABLES (LOW AND/OR HIGH VOLTAGE) EXIST IN THIS AREA. PLEASE CALL ENERGEX NETWORK INFORMATION SECTION AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION.

REPAIR OF SINTA-COATING AT WELDS

1. BEFORE WELDING OF STEEL COLLARS OR BUTT WELDING OF STEEL PIPES REMOVE SINTA-COATING FROM THE STEEL PIPE AND COLLAR FOR AT LEAST 50mm AND UP TO 100mm TO EACH SIDE OF THE WELD SITE. AFTER WELDING, ANY LOOSE OR UNSOUND COATING, SHARP EDGES, BURRS, SLAG, WELD SPATTER AND OTHER SHARP SURFACE IRREGULARITIES SHALL BE REMOVED. THE EDGES SURROUNDING THE EXPOSED STEEL INCLUDING THE EDGES OF SINTA-COATING SHALL BE BEVELLED BY HAND OR POWER TOOL TO A MINIMUM OF 10mm OVER SOUND RED PRIMER SHALL BE REMOVED FROM THE DENT/NOTCH INCLUDING DIRT, OIL, GREASE AND FOREIGN MATTER REMOVED. ALL EXPOSED STEEL SHALL BE REPAIRED TO ACHIEVE A CLASS SA2 SURFACE AS TO AS 402.2 BY SOLVENT CLEANING AND WIRE BRUSHING IF SUFFICIENT OR POWER TOOL CLEANING IF NECESSARY, OR ABRASIVE BLAST CLEANING IF NECESSARY.
2. WHERE WELDS OR WELD COLLAR EDGES ARE NOT BEVELLED, A CIRCUMFERENTIAL STRIP OF BUTYL MASTIC SHALL BE PRESSED INTO PLACE AROUND THE WELD TO FILL ANY VOID AND PROFILE THE STEP. THE FILLER USED TO PROFILE AND FILL VOIDS SHALL BE AN APPROVED SELF-ADHESIVE SYSTEM CONSISTING OF BUTYL MASTIC COMBINATION WITH BUTYL PRIMER AND PVC OVER WRAP TAPE BEFORE PLACING WRAP-AROUND TYPE HEAT SHRINK SLEEVES EITHER PRE-CUT OR CUT FROM A ROLL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE SLEEVE SHALL BE WIDE ENOUGH TO EXTEND FOR A MINIMUM OF 100mm OVER SOUND COATING ON EITHER SIDE OF THE AREA TO BE COATED OR OVER ADJOINING SLEEVES, PRIOR TO SHRINKING.
3. CLOSURE PATCHES SHALL BE PRE-ATTACHED BY THE MANUFACTURER TO PRE-CUT SLEEVES, OR ATTACHED BY THE CONTRACTOR TO SLEEVES CUT FROM BULK ROLL. MATERIAL, IF THE LATTER TYPE IS PROPOSED TO BE USED, THE CLOSURE PATCHES SHALL BE COMPATIBLE WITH THE WRAP AROUND HEAT SHRINK SLEEVE WIDTH OF EITHER 450mm OR 600mm.
4. THE COATING SYSTEM SHALL BE FREE OF FAULTS WHEN TESTED WITH A SKV HIGH VOLTAGE SPARK TESTER. THE COATING SHALL BE FREE FROM MOISTURE PRIOR TO TESTING.

PERMIT TO WORK

A 'PERMIT TO WORK' MUST BE OBTAINED FROM THE RELEVANT QUT CONTROL ROOM PRIOR TO COMMENCEMENT OF WORK ON SITE. A MINIMUM PERIOD OF TEN WORKING DAYS IS REQUIRED FOR THE ISSUING OF A PERMIT.

CONTROL ROOM EAST (BRISBANE LG AREA) PH. 3407 8391 EMAIL: P1WCE@URBANUTILITIES.COM.AU

CONTROL ROOM WEST (PESWCH, SOMERSET, LOCKYER, SCENIC RM LG AREAS) PH. 3407 7999 EMAIL: CONTROLROOMWEST@URBANUTILITIES.COM.AU

VALVE SHUT PLANS

FOR CONNECTIONS TO LIVE QUT MAIN, CONTRACTOR SHALL REQUEST PREPARATION OF VALVE SHUT PLAN BY QUT. APPROVED VALVE SHUT PLAN TO BE ATTACHED TO PERMIT TO WORK APPLICATION FORM FOR THIS PHASE OF THE WORK. REFER TO QUT PERMIT TO WORK FACT SHEET FOR DETAILS.



NOTE: PLEASE CONTACT QUEENSLAND URBAN UTILITIES CONTROL ROOM FOR ALL LIVE WATER WORKS PH 3407 8414

CONSTRUCTION INSPECTIONS: NOTIFICATION OF INSPECTIONS MUST BE RECEIVED BY QUT AND URBAN UTILITIES FIELD SERVICES BRANCH AT LEAST TWO (2) WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION. PLEASE CONTACT TONY FACEY ON 0412 438 579

AMENDMENT A
DATE 06/03/13
PAPER BADA
QUEENSLAND URBAN UTILITIES DELEGATE
VALID FOR 12 MONTHS FROM DATE SHOWN

ORIGINAL SIGNED BY: ERROL GEORGE DATE: 18/11/10

CLIENT: URBAN LAND DEVELOPMENT AUTHORITY
CONTACT: JOSEPH STONE - ETS GROUP PH. 3371 7000
Q.U.U. AUDITOR: AUDIT & COMPLIANCE OFFICER
CONTACT: QUEENSLAND URBAN UTILITIES
TONY FACEY PH. 0412 438 579

AS CONSTRUCTED DETAILS FOR AMEND.

I CERTIFY THAT THE 'AS CONSTRUCTED' DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS

SIGNED: NAME OF SIGNATORY DATE:
RPEO No. or LICENCE
COMPANY NAME
START DATE

SHEET No. 2 OF 8
QUEENSLAND URBAN UTILITIES DRAWING No. 486/4/6-0021-002
AMEND. A



ASSOCIATED CONSULTANTS		CLIENT	
65411 F	LANDSCAPE REQUESTED BY QUT	URBAN LAND DEVELOPMENT AUTHORITY	
65412 K	LANDSCAPE REQUESTED BY QUT	450 DIA TRUNK WATER MAIN DEVIATION	
25112 L	LANDSCAPE REQUESTED BY QUT	253 TELEGRAPH ROAD, FITZGIBBON	
25113 M	SERVED WITH MAIN ADJUNCT	LOCALITY PLAN	
DATE	REVISIONS	PROJECT	LOCATION
06/03/13	1	450 DIA TRUNK WATER MAIN DEVIATION	253 TELEGRAPH ROAD, FITZGIBBON
06/03/13	2	LOCALITY PLAN	LOCALITY PLAN
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06/03/13	100		

DESIGNED	DATE
L.K.	5/8/13
CHECKED	DATE
G.S.	
SCALE	AS SHOWN
DATE	SEPTEMBER 2010

ARCHITECTS	CIVIL & STRUCTURAL ENGINEERS
BRISBANE AUSTRALIA	
505 CORPORATION DRIVE, COOMBERG QLD 4008	
PH. (07) 3371 7000 FAX. (07) 3371 7079	
EMAIL: ma@etsgroup.net.au	
20 INDIANATION PARKWAY, BENTLEY QLD 4107	
PH. (07) 5428 8100 FAX. (07) 5428 8000	
EMAIL: ma@etsgroup.net.au	
PAPUA NEW GUINEA	
PORT MORESBY	
PO BOX 908	
TELEPHONE (09) 321 1333 FAX (09) 321 7053	
EMAIL: etsp@etsgroup.net.au	

JOB CODE	U/LDWFC01
SHEET NUMBER	REV
C601	L
FORM E02	10 AUG 2000

FOR CONTINUATION REFER BELOW RIGHT

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
29 MAY 2013
MEDQ

FOR CONTINUATION REFER DRAWING C603

LEGEND

- PROPOSED P.E. WATER MAIN
U.N.O.
- SCOUR BRANCH, REFER WATER
FITTING TABLE BELOW.
- DEAD END, REFER WATER
FITTING TABLE BELOW.
- PROPOSED FIRE HYDRANT
LOCATION.
- TEST POINT, REFER WATER
FITTING TABLE BELOW.
- ISOLATION VALVE, REFER
WATER FITTING TABLE.
- WATER MAIN FITTING,
REFER WATER FITTING
TABLE
- LOT NUMBER.
- PROPOSED STORMWATER LINE
- PROPOSED SEWER MAIN
- EXISTING GAS MAIN
- EXISTING WATER MAIN TO
BE ABANDONED
- POTABLE WATER MAIN



WATER FITTING TABLE

PT.	DESCRIPTION	NUMBER REQUIRED
1	450mm ISOLATION VALVE WITH INTEGRAL BYPASS	2
2	AIR VALVE AND PIT - REFER C607 FOR DETAILS	1
3	450mm x 45mm BEND	3
4	450mm x 90mm BEND	3
5	DEAD END CAP	1

FOR CONNECTION 1 & 2 WATER FITTINGS
REFER TO WATER FITTING TABLES ON DWG. C604

CONSTRUCTION INSPECTIONS

NOTIFICATION OF INSPECTIONS MUST BE RECEIVED BY
THE LOCAL COUNCIL AND URBAN UTILITIES PRIOR TO
COMMENCEMENT OF CONSTRUCTION
PLEASE CONTACT TONY FACEY ON 0412 438 579

AMENDMENT A

PAKEE BUA DATE: 06/05/13
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

ORIGINAL, SIGNED BY: ERROL GEORGE DATE: 18/11/10

CLIENT: URBAN LAND DEVELOPMENT AUTHORITY
CONTACT: JOSHUA STONE - ETS GROUP Ph. 371 7000
O.U.U. AUDITOR: AUDIT & COMPLIANCE OFFICER
QUEENSLAND URBAN UTILITIES
CONTACT: TONY FACEY Ph. 0412 438 579

AS CONSTRUCTED DETAILS FOR AMEND.

I CERTIFY THAT THE AS CONSTRUCTED DETAILS
SHOWN ON THIS PLAN ARE TRUE AND ACCURATE
RECORD OF THE WORKS

SIGNED: NAME OF SIGNATORY DATE:

PRINTED No. of LICENCE

COMPANY NAME

START DATE

SHEET No. 3 OF 8
QUEENSLAND URBAN UTILITIES DRAWING No. AMEND.
486/4/6-0027-003 A



QUEENSLAND URBAN UTILITIES

QUEENSLAND URBAN UTILITIES

QUEENSLAND URBAN UTILITIES

QUEENSLAND URBAN UTILITIES

QUEENSLAND URBAN UTILITIES

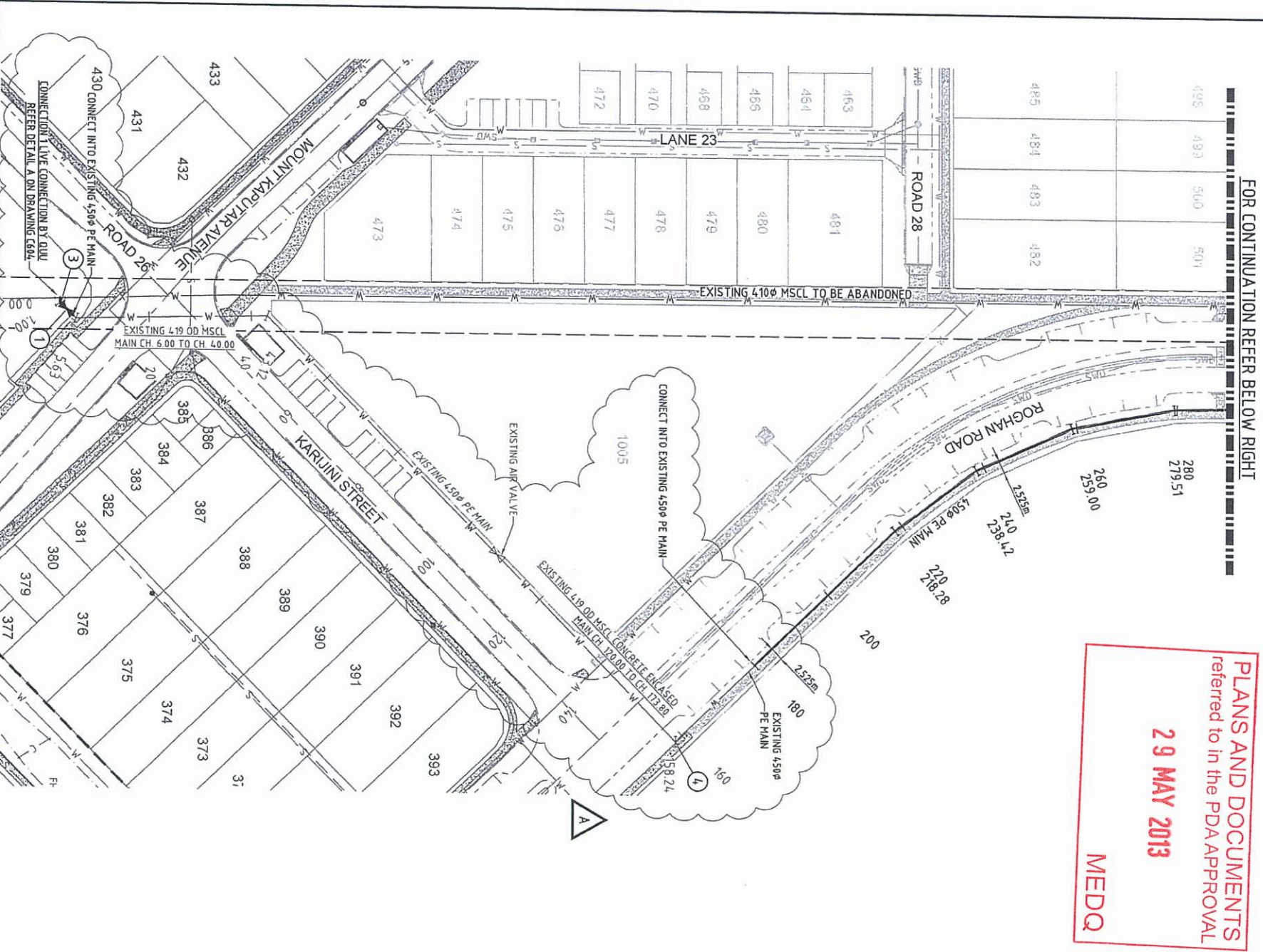
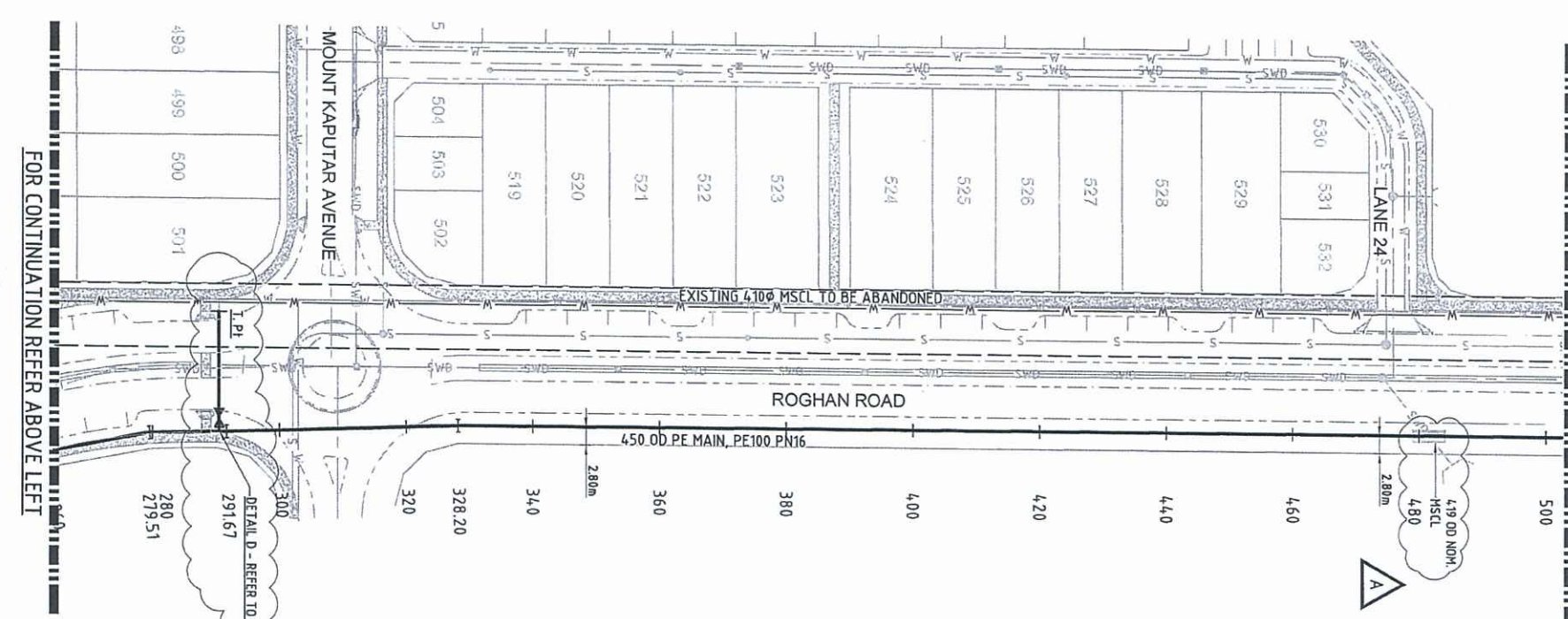
QUEENSLAND URBAN UTILITIES

QUEENSLAND URBAN UTILITIES

FOR CONTINUATION REFER ABOVE LEFT

SCALE OF METRES
1 : 500 FULL SIZE A1 SHEET

NOTE: PLEASE CONTACT
QUEENSLAND URBAN UTILITIES
CONTROL ROOM FOR ALL LIVE
WATER WORKS
PH 3407 8414



DATE	REVISION	DESCRIPTION	APPROVED
06/11/10	1	ISSUED FOR PERMIT	ERROL GEORGE
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06/11/10	72	ISSUED FOR PERMIT	ERROL GEORGE
06/11/10	73	ISSUED FOR PERMIT	ERROL GEORGE
06/11/10	74	ISSUED FOR PERMIT	ERROL GEORGE
06/11/10	75	ISSUED FOR PERMIT	ERROL GEORGE
06/11/10	76	ISSUED FOR PERMIT	ERROL GEORGE
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06/11/10	97	ISSUED FOR PERMIT	ERROL GEORGE
06/11/10	98	ISSUED FOR PERMIT	ERROL GEORGE
06/11/10	99	ISSUED FOR PERMIT	ERROL GEORGE
06/11/10	100	ISSUED FOR PERMIT	ERROL GEORGE

ASSOCIATED CONSULTANTS				CLIENT
URBAN LAND AND DEVELOPMENT AUTHORITY				PROJECT
450 DIA TRUNK WATER MAIN DEVIATION				LOCATION
253 TELEGRAPH ROAD, FITZGIBBON				SHEET
LAYOUT - SHEET 1 OF 2				
06/11/10	F	AMENDMENTS REQUESTED BY DLU	PH	
06/03/13	0	AMENDMENTS REQUESTED BY DLU	PH	
06/02/13	0	AMENDMENTS REQUESTED BY DLU	PH	
17/11/11	1	ISSUED FOR MAIN AMENDMENT	PH	
DATE	REV	DESCRIPTION	APPROVED	

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

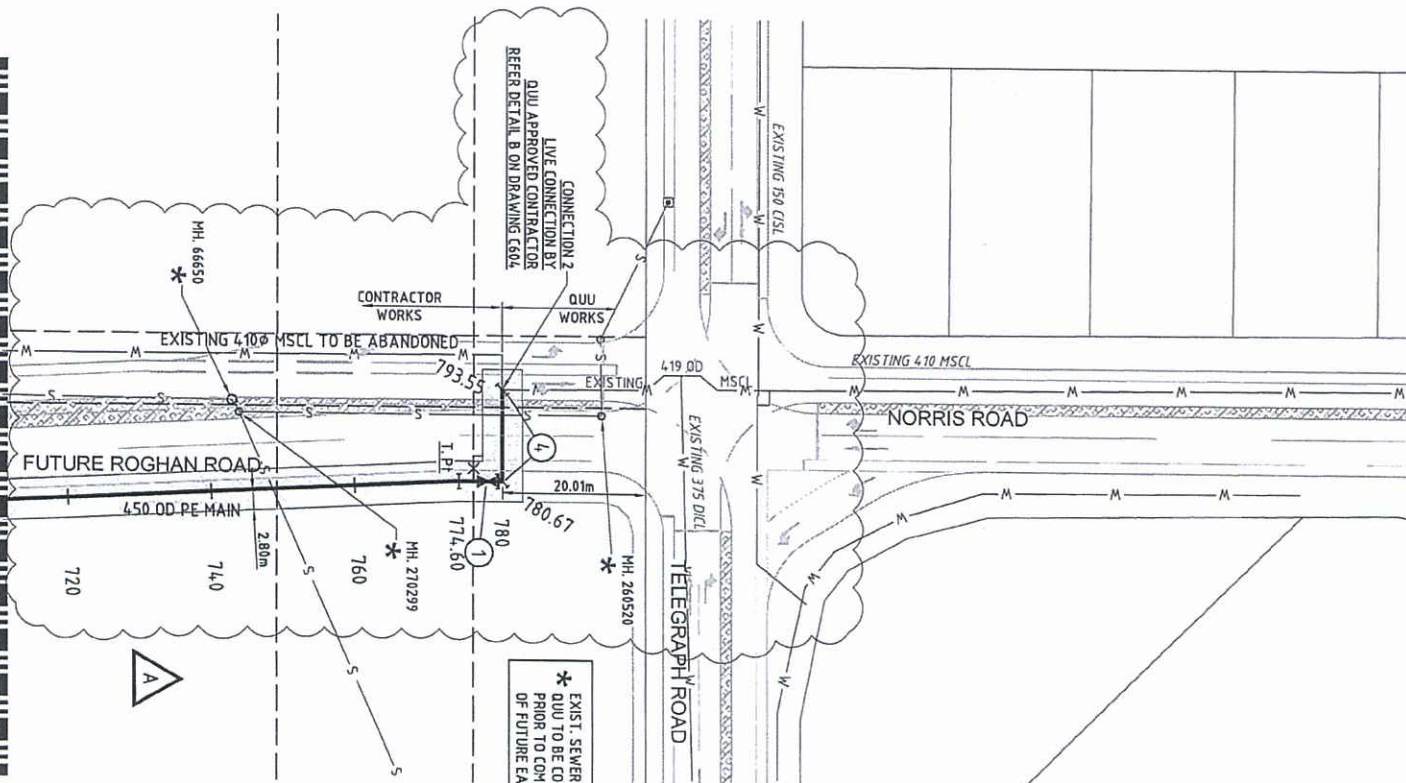
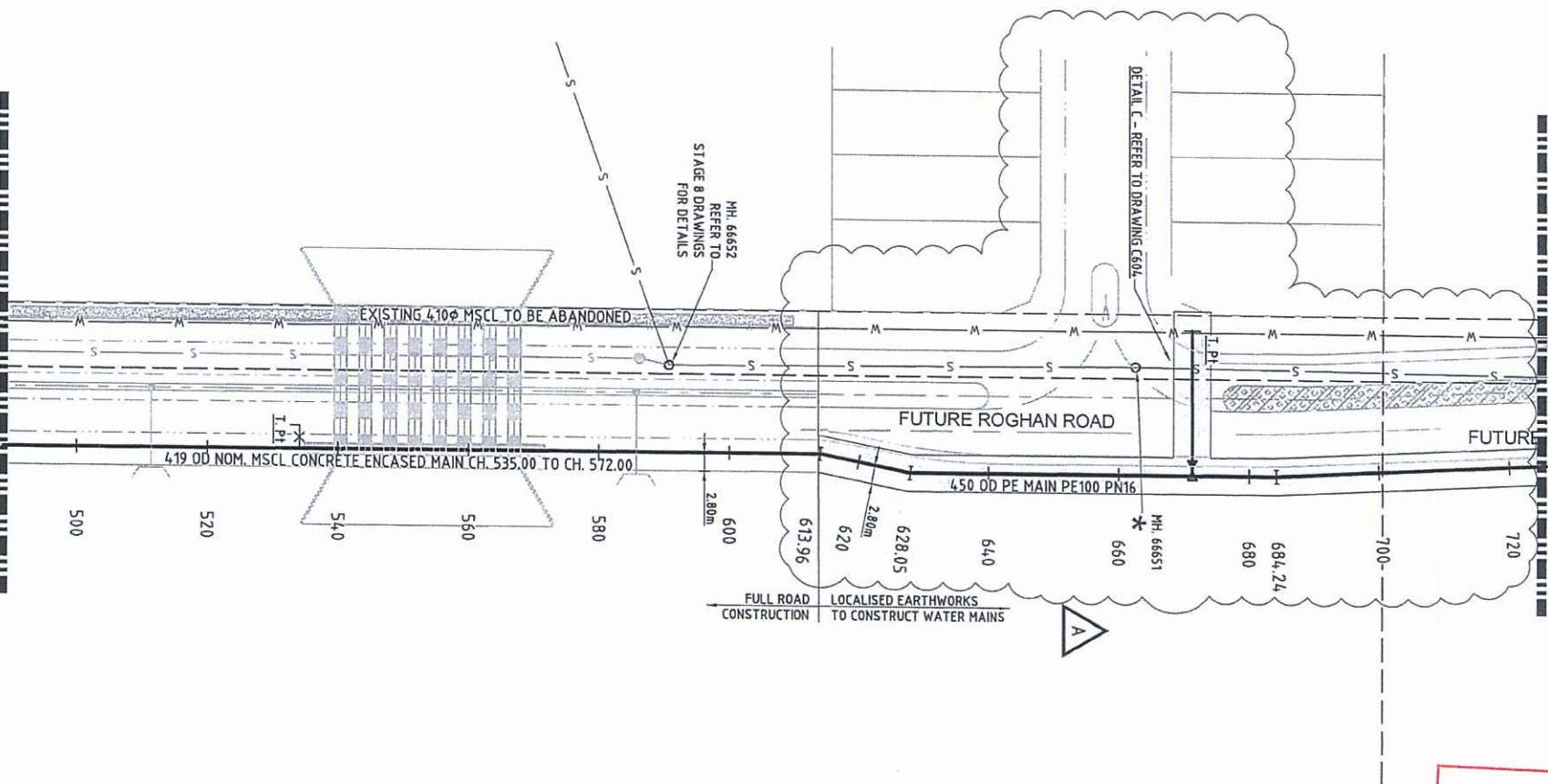
29 MAY 2013

MEDQ

FOR CONTINUATION REFER BELOW RIGHT

FOR CONTINUATION REFER DRAWING C602

FOR CONTINUATION REFER ABOVE LEFT



LEGEND

—	PROPOSED P.E. WATER MAIN, U.N.O.
—	SCOUR BRANCH REFER WATER FITTING TABLE BELOW.
—	DEAD END AS PER QUL STD DWG 486/4.25-W601. REFER WATER FITTING TABLE BELOW.
—	PROPOSED FIRE HYDRANT LOCATION.
—	TEST POINT, REFER WATER FITTING TABLE BELOW.
—	ISOLATION VALVE, REFER WATER FITTING TABLE.
—	WATER MAIN FITTING, REFER WATER FITTING TABLE.
—	WATER MAIN FITTING, REFER WATER FITTING TABLE.
—	LOT NUMBER.
—	PROPOSED STORMWATER LINE.
—	PROPOSED SEWER MAIN.
—	EXISTING GAS MAIN.
—	EXISTING WATER MAIN TO BE ABANDONED.
—	POTABLE WATER MAIN.

NOTE: PLEASE CONTACT
QUEENSLAND URBAN UTILITIES
CONTROL ROOM FOR ALL LIVE
WATER WORKS
PH 3407 8414

CONSTRUCTION INSPECTIONS:
NOTIFICATION OF INSPECTIONS MUST BE RECEIVED BY
QUEENSLAND URBAN UTILITIES FIELD SERVICES
BRANCH AT LEAST TWO (2) WEEKS PRIOR TO
COMMENCEMENT OF CONSTRUCTION.
PLEASE CONTACT TONY FACEY ON 0412 438 579

AMENDMENT A

DATE: 06/03/13

QUEENSLAND URBAN UTILITIES DELEGATE

ORIGINAL SIGNED BY: ERROL GEORGE DATE: 18/11/10

CLIENT: URBAN LAND DEVELOPMENT AUTHORITY
CONTACT: JOSHUA STONE - ETS GROUP Ph. 3371 7000
Q.U.U. AUDITOR: AUDIT & COMPLIANCE OFFICER
QUEENSLAND URBAN UTILITIES
CONTACT: TONY FACEY Ph. 0412 438 579

AS CONSTRUCTED DETAILS FOR AMEND.
I CERTIFY THAT THE 'AS CONSTRUCTED' DETAILS
SHOWN ON THIS PLAN ARE TRUE AND ACCURATE
RECORD OF THE WORKS
SIGNED: NAME OF SIGNATORY: DATE:
RPEA No. or LICENCE:
COMPANY NAME:
START DATE:

SHEET No. 4 OF 8
QUEENSLAND URBAN UTILITIES DRAWING No. AMEND.
486/4.6-0027-004 A

QUEENSLAND
UrbanUtilities

SCALE OF METRES
1 : 500 (FULL SIZE A1 SHEET)

ASSOCIATED CONSULTANTS

DA1110	F	ADVISORS REQUESTED BY QUL	QUL
DA1111	P	ADVISORS REQUESTED BY QUL	QUL
DA1112	Q	ADVISORS REQUESTED BY QUL	QUL
DA1113	M	ADVISORS REQUESTED BY QUL	QUL
DA1114	M	ADVISORS REQUESTED BY QUL	QUL
DA1115	M	ADVISORS REQUESTED BY QUL	QUL
DA1116	M	ADVISORS REQUESTED BY QUL	QUL
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DA1197	M	ADVISORS REQUESTED BY QUL	QUL
DA1198	M	ADVISORS REQUESTED BY QUL	QUL
DA1199	M	ADVISORS REQUESTED BY QUL	QUL
DA1200	M	ADVISORS REQUESTED BY QUL	QUL

CLIENT: URBAN LAND DEVELOPMENT AUTHORITY

PROJECT: 450 DIA TRUNK WATER MAIN DEVIATION

LOCATION: 253 TELEGRAPH ROAD, FITZGIBBON

SHEET: LAYOUT - SHEET 2 OF 2

DESIGNED: LK

CHECKED: G.S.

DATE: SEPTEMBER 2010

SCALE: AS SHOWN

BUSINESS: 555 CONSTRUCTION DRIVE, TROON, QLD 4208

ARCHITECTS: CIVIL & STRUCTURAL ENGINEERS

ARCHITECTS: CIVIL & STRUCTURAL ENGINEERS

ARCHITECTS: CIVIL & STRUCTURAL ENGINEERS

JOB CODE: ULDWFC01

SHEET NUMBER: C603

REV: P

DATE: 10 AUG 2000

MEDQ

NOTE: CLEARANCES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR TO CONFIRM EXISTING SERVICE DEPTH AND LOCATION PRIOR TO CONSTRUCTION AND INFORM THE SUPERINTENDENT

CONSTRUCTION INSPECTIONS:
NOTIFICATION OF INSPECTIONS MUST BE RECEIVED BY
QUENSLAND URBAN UTILITIES FIELD SERVICES
BUREAU AT LEAST TWO (2) WEEKS PRIOR TO
COMMENCEMENT OF CONSTRUCTION.
PLEASE CONTACT TONY FACEY ON 0412 436 579

CONTACT: POSITION CHAIRMAN - E/L/S GROUP - TEL 334 1 7000
Q.U.U. AUDITOR: AUDIT & COMPLIANCE OFFICE
QUEENSLAND URBAN UTILITIES
CONTACT: TONY FACEY Ph. 0412 435 57

AS INSTRUCTED DETAILS FOR AMEND,
I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS
SHOWN ON THIS PLAN ARE TRUE AND ACCURATE
RECORD OF THE WORKS

SIGNED _____ DATE _____
NAME of SIGNATORY _____
PED No. or LICENSE _____
COMPANY NAME _____
START DATE _____

QUEENSLAND URBAN UTILITIES DRAWING NO.	AMEND.
486/4/6-0027-006	A

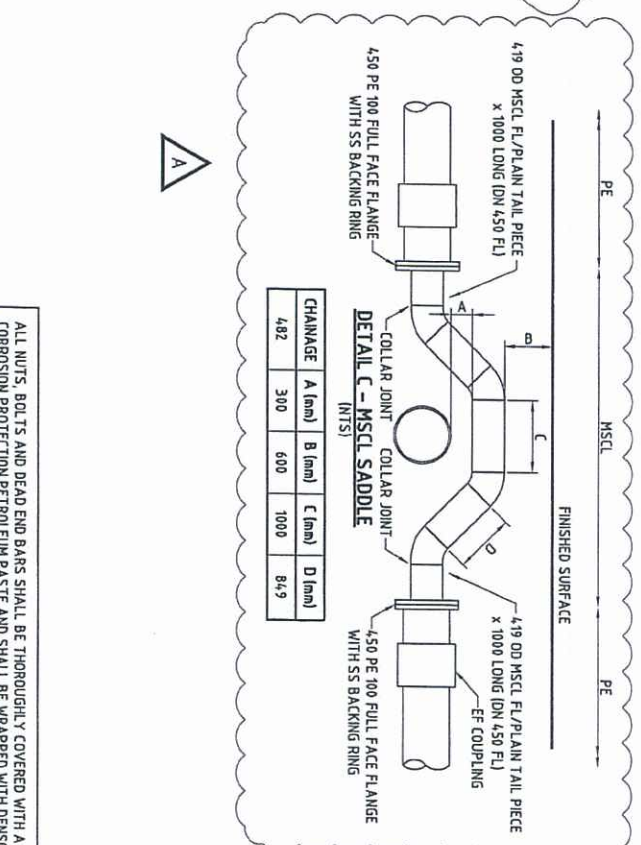


ULDWFC01

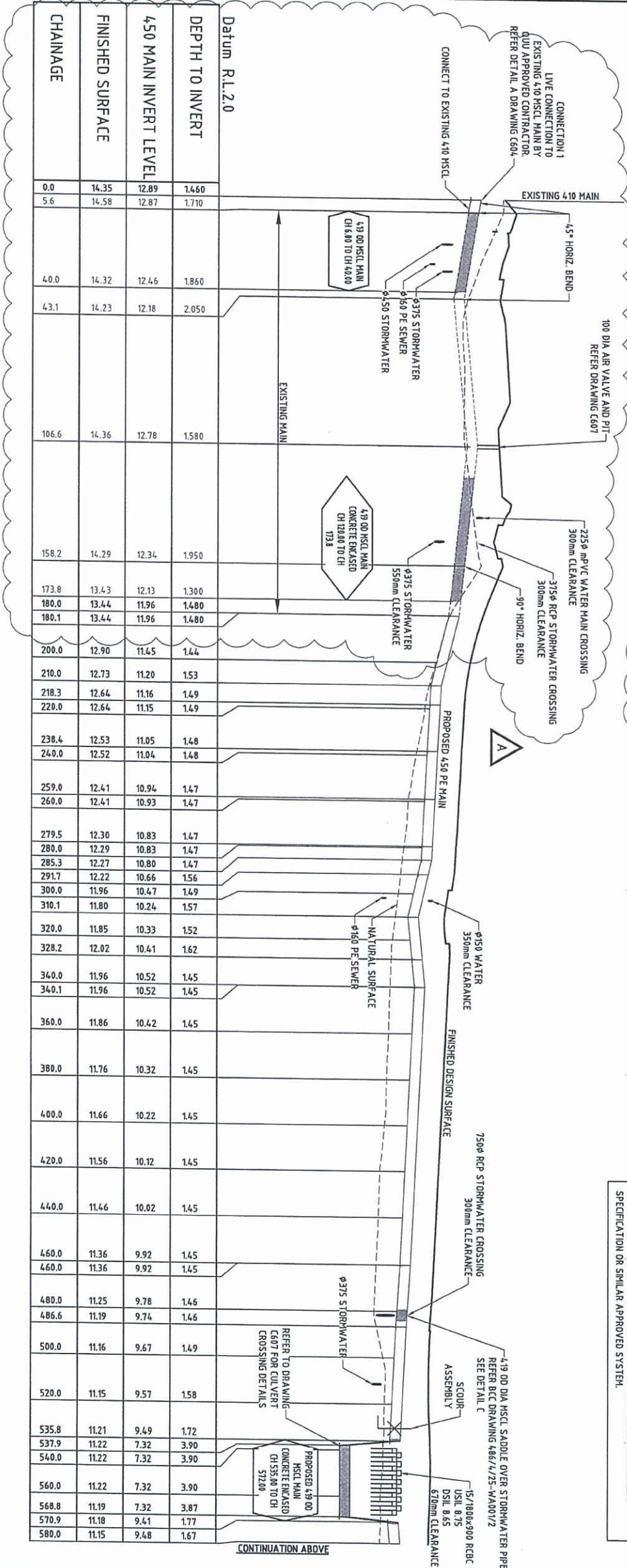
SHEET NUMBER: REV:

C605 J

©Copyright TOWN EAST



CHAINAGE	A (mm)	B (mm)	C (mm)	D (mm)
482	300	600	1000	849



ALL NUTS, BOLTS AND DEAD END BARS SHALL BE THOROUGHLY COVERED WITH A CORROSION PROTECTION PETROLEUM PASTE AND SHALL BE WRAPPED WITH DENSOGREASE TAPE AND PVC WRAP IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION OR SIMILAR APPROVED SYSTEM.

0 1 2 3 4 5m
0 10 20 30 40 50m
SCALE 1 : 100 VERTICAL
SCALE 1 : 1000 HORIZONTAL
FULL SIZE A1 SHEET

DATE	BY	DESCRIPTION	NO. OF COPIES	APPROVED
03/02/11	F	ADJUSTMENTS REQUESTED BY DAD		BYH
10/10/10	E	ADJUSTMENTS REQUESTED BY DAD		BYH
06/03/10	F	ADJUSTMENTS REQUESTED BY DAD		BYH
17/11/11	H	ADJUSTMENTS REQUESTED BY DAD EXPANDED NERS MAIL MARCH		BYH

CLIENT	URBAN LAND DEVELOPMENT AUTHORITY
PROJECT	450 DIA TRUNK WATER MAIN DEVIATION
LOCATION	253 TELEGRAPH ROAD, FITZGIBBON
SHEET TITLE	LONGITUDINAL SECTION

DESIGNED	C.S.	APPROVED	DATE
DRAWN	C.S.	<i>M. Howell</i>	7/2/13
CHECKED	DATE	SCALE	KEITH HOWELL
DATE		AS SHOWN	
SEPTEMBER 2010			

BRISBANE
585 CROMWELL AVENUE, S.E. 2008
TEL: (07) 3271 7000 FAX: (07) 3271 0097
EMAIL: mail@stapleton.net.au

PAPUA NEW GUINEA
5TH FLOOR CANTERBURY HOUSE, PO BOX 608
TELEPHONE (675) 321 1331 FACSIMILE (675) 321 7003
E-MAIL: stapleton@stapleton.net.au

AUSTRALIA
20 HUNTERVIEW AVENUE, S.E.
TEL: (07) 5454 5100 FAX: (07) 5454 8482
EMAIL: mail@stapleton.net.au

SUNSHINE COAST
1000 SUNSHINE COAST DRIVE, S.E.
TEL: (07) 5454 5100 FAX: (07) 5454 8482
EMAIL: mail@stapleton.net.au


 JOD CODE: ULDWFC01
 SHEET NUMBER: C605
 REV: J

29 MAY 2013

**NOTE: PLEASE CONTACT
QUEENSLAND URBAN UTILITIES
FIELD SERVICES VIA CONTACT
CENTRE
PH 3407 8414 FOR ALL LIVE
WATER WORKS**

CONSTRUCTION INSPECTIONS:
NOTIFICATION OF INSPECTIONS MUST BE RECEIVED BY QUEENSLAND AND URBAN UTILITIES FIELD SERVICES BRANCH AT LEAST TWO (2) WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
PLEASE CONTACT TONY FACEY ON 0412 436 579

ORIGINAL SIGNED BY: ERROL GEORGE DATE: 18/1/10

CLIENT	URBAN LAND DEVELOPMENT AUTHORITY
CONTACT	JOSHUA STONE - EIS GROUP PH 327 7000
Q.U.U. AUDITOR	AUDIT & COMPLIANCE OFFICER
	QUEENSLAND URBAN UTILITIES
CONTACT	TONY FACEY PH. 0412 436 57

NO CONSTRUCTION FOR PROPOSED PROJECT

I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS

SIGNED: _____ DATE: _____

NAME of SIGNATORY _____

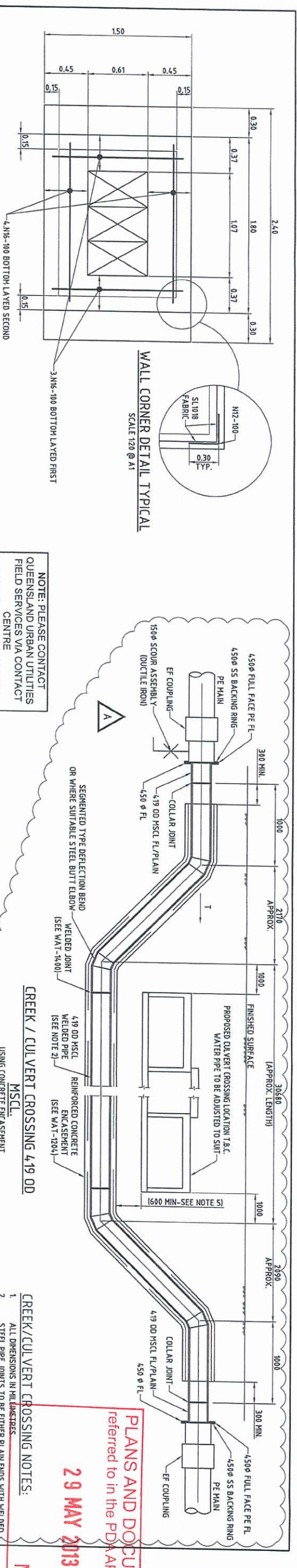
REC'D No. of LICENCE _____

COMPANY NAME _____

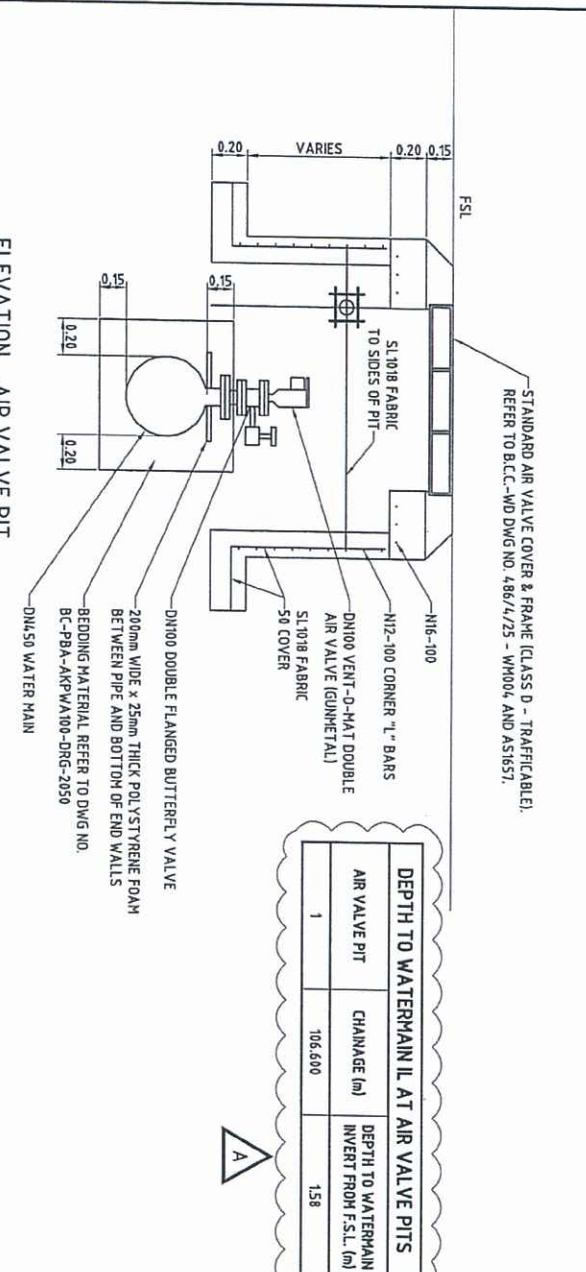
START DATE _____

QUEENSLAND URBAN UTILITIES DRAWING No.	AMEND.
486/4/6-0027-007	A

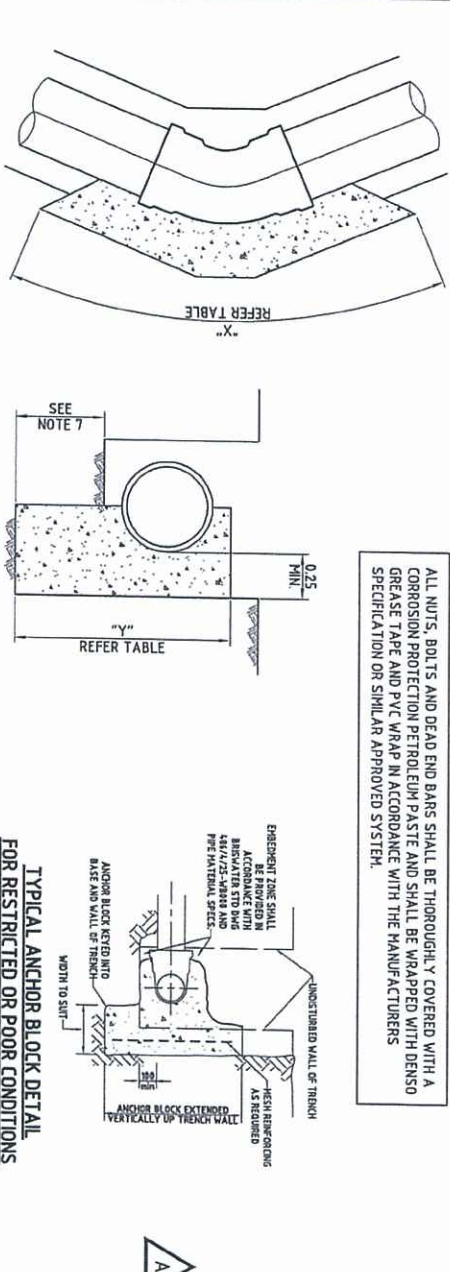
[illegible]



PLAN - AIR VALVE PIT
SCALE 1:20 @ A1



ELEVATION - AIR VALVE PIT
SCALE 1:20 @ A1



PLAN
THRUST BLOCK FOR BENDS
(HORIZONTAL THRUST)
SCALE 1:20 @ A1

SECTION
THRUST BLOCK FOR BENDS
(HORIZONTAL THRUST)
SCALE 1:20 @ A1

ALL NUTS, BOLTS AND DEAD END BARS SHALL BE THOROUGHLY COVERED WITH A CORROSION PROTECTION PETROLEUM PASTE AND SHALL BE WRAPPED WITH DENSIO GREASE TAPE AND PVC WRAP IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION OR SIMILAR APPROVED SYSTEM.

CLIENT
URBAN LAND DEVELOPMENT AUTHORITY

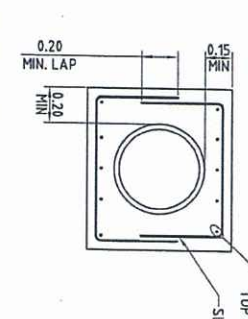
PROJECT
450 DIA TRUNK WATER MAIN DEVIATION

LOCATION
253 TELEGRAPH ROAD, FITZGIBBON

SHEET
AIR VALVE PIT & THRUST BLOCKS & CULVERT CROSSING DETAILS

DATE	REVISION	DESCRIPTION	BY	CHKD
08/02/11	1	AMENDMENTS REQUESTED BY DUL	PH	PH
08/02/11	2	AMENDMENTS REQUESTED BY DUL	PH	PH
08/02/11	3	AMENDMENTS REQUESTED BY DUL	PH	PH
08/02/11	4	AMENDMENTS REQUESTED BY DUL	PH	PH
08/02/11	5	AMENDMENTS REQUESTED BY DUL	PH	PH
08/02/11	6	AMENDMENTS REQUESTED BY DUL	PH	PH
08/02/11	7	AMENDMENTS REQUESTED BY DUL	PH	PH
08/02/11	8	AMENDMENTS REQUESTED BY DUL	PH	PH
08/02/11	9	AMENDMENTS REQUESTED BY DUL	PH	PH
08/02/11	10	AMENDMENTS REQUESTED BY DUL	PH	PH

SECTION THROUGH CONCRETE
ENCASEMENT
SCALE 1:20 @ A1



450 DIA. MSL PIPE - ROGHAN ROAD THRUST & SETOUT TABLE

PIPE SIZE (Ø)	RUNNING CHANAGE (m)	EASTING	NORTHING	DESCRIPTION	SOIL TYPE	THRUST (kN)	LENGTH (m)	HEIGHT (m)
450	0.00	3326.12	2417.65	CONNECTION 1 - LIVE CONNECTION BY DUL REFER DETAIL A ON DRAWING 604 (90° HORIZ. BEND)	NATURAL SOIL	336	5.60	1.20
450	1.000	3327.18	2417.683	45° HORIZONTAL BEND	NATURAL SOIL	182	3.03	1.20
450	3.206	3328.356	2418.989	ISOLATION VALVE	NATURAL SOIL	238	3.97	1.20
450	5.630	3330.020	2420.745	45° HORIZONTAL BEND	NATURAL SOIL	182	3.03	1.20
450	4.3120	3329.020	2458.222	45° HORIZONTAL BEND	NATURAL SOIL	182	2.02	1.20
450	8.1310	3356.434	2484.935	AIR VALVE	GENERAL FILL	238	2.64	1.20
450	158.240	3416.620	2538.408	90° HORIZONTAL BEND	GENERAL FILL	336	3.73	1.20
450	229.491	3344.727	2647.281	TEE PIECE	GENERAL FILL	238	2.64	1.20
450	534.100	3342.507	2890.864	SCOUR VALVE	GENERAL FILL	238	2.64	1.20
450	669.008	3344.729	3025.808	TEE PIECE	GENERAL FILL	238	2.64	1.20
450	776.670	3339.810	3130.640	SCOUR VALVE	NATURAL SOIL	238	3.97	1.20
450	778.670	3339.810	3135.040	ISOLATION VALVE	NATURAL SOIL	238	3.97	1.20
450	780.670	3339.802	3137.040	90° HORIZONTAL BEND	NATURAL SOIL	336	5.60	1.20
450	793.550	3326.924	3136.990	90° HORIZONTAL BEND	NATURAL SOIL	336	5.60	1.20
450	793.550	3326.924	3136.990	CONNECTION 2 - LIVE CONNECTION BY DUL REFER DETAIL B ON DRAWING 604	NATURAL SOIL	238	3.97	1.20

NOTES:

1. SITE SOIL CONDITIONS ARE INDICATIVE ONLY. GEOTECHNICAL TESTING TO BE CONDUCTED ON SITE IN ACCORDANCE WITH WSSA STD DNG WAT-1200.
2. THRUST BLOCK DIMENSIONS HAVE BEEN SPECIFIED IN ACCORDANCE WITH STANDARDS. REFER NOTE 4.
3. IF THRUST BLOCKS ARE NOT BEARING IN SOIL TYPE SHOWN ON THE TABLE, THRUST BLOCK DESIGN IS TO BE ADJUSTED ON SITE IN ACCORDANCE WITH STANDARDS.
4. THRUST BLOCKS TO BE DESIGNED IN ACCORDANCE WITH WSSA STD DNGS WAT-1205 TO WAT-1208.

DESIGN HEAD = 120m

DESIGN PRESSURES BASED ON HOBSONS GEOTECHNICAL REPORT DATED 29 SEPTEMBER 2010

ALLOWABLE HORIZONTAL BEARING PRESSURE OF GROUND (kPa) NATURAL SOIL = 50

ALLOWABLE HORIZONTAL BEARING PRESSURE OF GROUND (kPa) GENERAL FILL = 75

ALLOWABLE HORIZONTAL BEARING PRESSURE OF GROUND (kPa) SELECT FILL = 100

SIGNED: _____ DATE: _____

NAME OF SIGNATORY: _____

REPO. No. or LICENCE: _____

COMPANY NAME: _____

START DATE: _____

SHEET No. 8 OF 8

QUEENSLAND URBAN UTILITIES DRAWING No. AMEND. A

486/4/6-0027-008



ARCHITECTS - CIVIL & STRUCTURAL ENGINEERS

QUEENSLAND URBAN UTILITIES

UTLWFC01

C607 J

29 MAY 2013

MEDQ