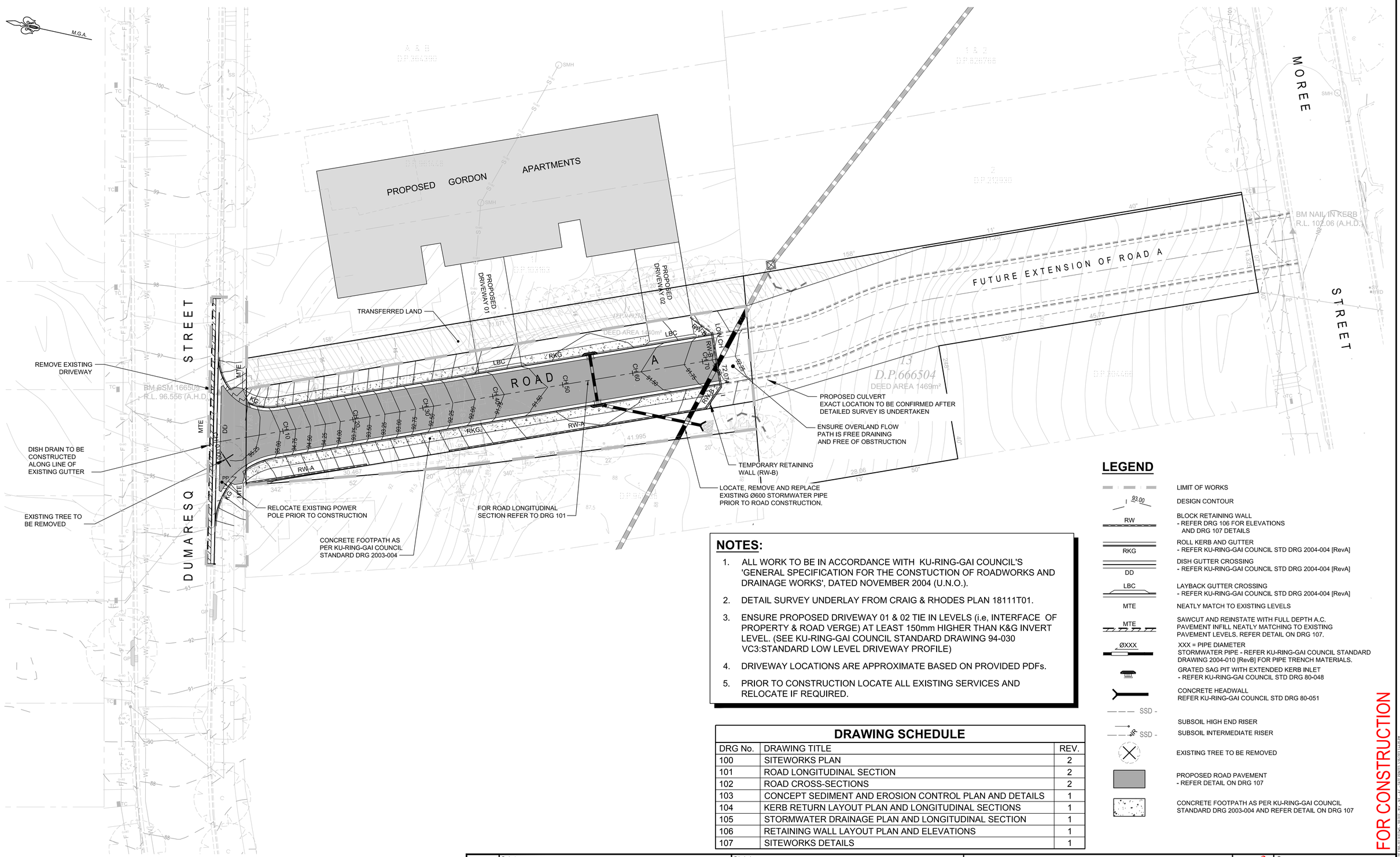
A1



NOTES:

1. ALL WORK TO BE IN ACCORDANCE WITH KU-RING-GAI COUNCIL'S 'GENERAL SPECIFICATION FOR THE CONSTUCTION OF ROADWORKS AND DRAINAGE WORKS', DATED NOVEMBER 2004 (U.N.O.).
2. DETAIL SURVEY UNDERLAY FROM CRAIG & RHODES PLAN 18111T01.
3. ENSURE PROPOSED DRIVEWAY 01 & 02 TIE IN LEVELS (i.e, INTERFACE OF PROPERTY & ROAD VERGE) AT LEAST 150mm HIGHER THAN K&G INVERT LEVEL. (SEE KU-RING-GAI COUNCIL STANDARD DRAWING 94-030 VC3:STANDARD LOW LEVEL DRIVEWAY PROFILE)
4. DRIVEWAY LOCATIONS ARE APPROXIMATE BASED ON PROVIDED PDFs.
5. PRIOR TO CONSTRUCTION LOCATE ALL EXISTING SERVICES AND RELOCATE IF REQUIRED.

LEGEND

- LIMIT OF WORKS
- 93.00 — DESIGN CONTOUR
- RW — BLOCK RETAINING WALL - REFER DRG 106 FOR ELEVATIONS AND DRG 107 DETAILS
- RKG — ROLL KERB AND GUTTER - REFER KU-RING-GAI COUNCIL STD DRG 2004-004 [RevA]
- DD — DISH GUTTER CROSSING - REFER KU-RING-GAI COUNCIL STD DRG 2004-004 [RevA]
- LBC — LAYBACK GUTTER CROSSING - REFER KU-RING-GAI COUNCIL STD DRG 2004-004 [RevA]
- MTE — NEATLY MATCH TO EXISTING LEVELS
- MTE — SAWCUT AND REINSTATE WITH FULL DEPTH A.C. PAVEMENT INFILL NEATLY MATCHING TO EXISTING PAVEMENT LEVELS. REFER DETAIL ON DRG 107.
- ØXXX — XXX = PIPE DIAMETER STORMWATER PIPE - REFER KU-RING-GAI COUNCIL STANDARD DRAWING 2004-010 [RevB] FOR PIPE TRENCH MATERIALS.
- GRATED SAG PIT WITH EXTENDED KERB INLET - REFER KU-RING-GAI COUNCIL STD DRG 80-048
- CONCRETE HEADWALL REFER KU-RING-GAI COUNCIL STD DRG 80-051
- SSD - SUBSOIL HIGH END RISER
- SSD - SUBSOIL INTERMEDIATE RISER
- EXISTING TREE TO BE REMOVED
- PROPOSED ROAD PAVEMENT - REFER DETAIL ON DRG 107
- CONCRETE FOOTPATH AS PER KU-RING-GAI COUNCIL STANDARD DRG 2003-004 AND REFER DETAIL ON DRG 107

DRAWING SCHEDULE

DRG No.	DRAWING TITLE	REV.
100	SITEWORKS PLAN	2
101	ROAD LONGITUDINAL SECTION	2
102	ROAD CROSS-SECTIONS	2
103	CONCEPT SEDIMENT AND EROSION CONTROL PLAN AND DETAILS	1
104	KERB RETURN LAYOUT PLAN AND LONGITUDINAL SECTIONS	1
105	STORMWATER DRAINAGE PLAN AND LONGITUDINAL SECTION	1
106	RETAINING WALL LAYOUT PLAN AND ELEVATIONS	1
107	SITEWORKS DETAILS	1

FOR CONSTRUCTION

1:250 @ A1

AMEND. No.	DATE	DETAILS
03	1/10/2013	ADDITIONAL INFORMATION AS PER COUNCIL REVIEW
02	26/07/2013	ISSUED FOR CONSTRUCTION
01	16/05/2013	ISSUED FOR INFORMATION

DIAL 1100 BEFORE YOU DIG

Project: PROPOSED ROAD OVER LOT 1 D.P. 949218 No. 32 DUMARESQ STREET, GORDON

Drawing Title: SITEWORKS PLAN

Principal: KU-RING-GAI COUNCIL

Scale	1:250	Date	1/10/2013	Council Ref.	
		Datum	A.H.D.	L.G.A.	KU-RING-GAI
Calc's	M.V.	Drawn.	N.F.	Proj.Man.	A.C.
Client Ref:					

CRAIG & RHODES
ABN 77 050 209 991
Level 4, Suite 400
16-18 Cambridge St
EPPING NSW 2121
PO Box 233
EPPING NSW 1710
ACN 050 209 991
DX 4408 EPPING
Tel. 9869-1855
Fax. 9869-2341
reception@crhodes.com.au
www.craigandrhodes.com.au

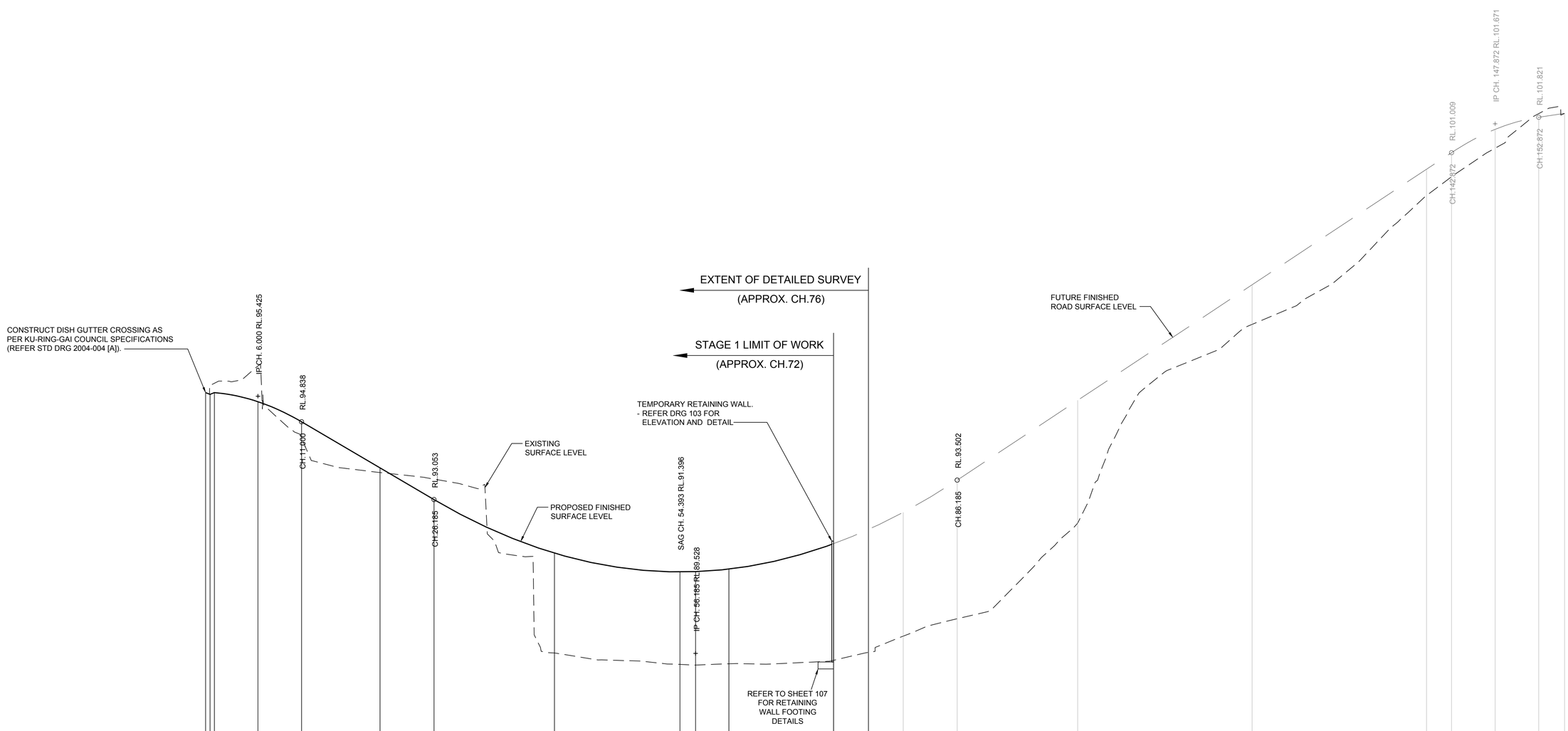
© Craig & Rhodes

LQMS ISO 9001 Approved Company

Our Ref. 181-11

Dwg File Ref. [Rev] - Sheet Ref.

181-11C E100 [03]



Horiz Curve Data

Vertical Geometry Grade (%): -1.634% | -11.75% | 13.244% | 3%

Vertical Grade Length (m): 5m | 50.185m | 91.686m | 12.623m

Vertical Curve Length (m): L 10 | L 60 | L 10

Vertical Curve Radius (m): R 98.849 | R 240.053 | R 97.619

DATUM R.L. 85.00

EXISTING SURFACE	95.506	95.679	95.721	96.120	94.471	93.675	93.525	89.538	89.277	89.261	89.290	89.370	89.924	90.325	92.515	97.072	100.025	100.456	101.112	101.905	101.910
DESIGN SURFACE LEVEL	95.51	95.47	95.51	95.3	94.84	93.78	93.05	91.83	91.4	91.4	91.46	92.04	92.76	93.5	95.33	97.98	100.63	101.01	101.54	101.82	101.91
CHAINAGE	0	0.5	1	6	11	20	26.185	40	54.393	56.185	60	72.002	76	80	86.185	100	120	140	142.872	147.872	152.872	155.833

PROPOSED ROAD A LONGITUDINAL SECTION

HORIZONTAL SCALE - 1:250
VERTICAL SCALE - 1:50

FOR CONSTRUCTION

AMEND. No:	DATE:	DETAILS:
03	1/10/2013	ADDITIONAL INFORMATION AS PER COUNCIL REVIEW
02	26/07/2013	ISSUED FOR CONSTRUCTION
01	15/05/2013	ISSUED FOR INFORMATION

DIAL 1100 BEFORE YOU DIG

Project: PROPOSED ROAD OVER LOT 1 D.P. 949218
No. 32 DUMARESQ STREET, GORDON

Drawing Title: ROAD LONGITUDINAL SECTION

Principal: KU-RING-GAI COUNCIL

Scale	1:250 HOR. 1:100 VER.	Date	1/10/2013	Council Ref.	
		Datum	A.H.D.	L.G.A.	KU-RING-GAI
Calc's	MV	Drawn.	N.F.	Proj.Man.	A.C.
Client Ref:					

CRAIG & RHODES

ABN 77 050 209 991
Level 4, Suite 400
16-18 Cambridge St
EPPING NSW 2121
PO Box 233
EPPING NSW 1710

ACN 050 209 991
DX 4408 EPPING
Tel. 9869-1855
Fax. 9869-2341
reception@crhodes.com.au
www.craigandrhodes.com.au

© Craig & Rhodes

ISO 9001 Approved Company

Our Ref. 181-11

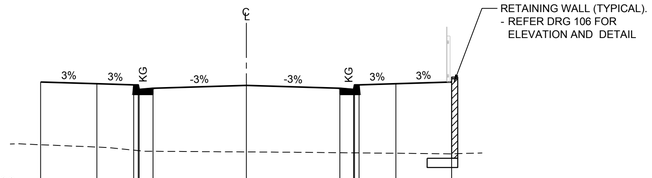
Dwg File Ref. [Rev] - Sheet Ref.

181-11C E101 [03]

DATUM RL93.00

DESIGN	93.890	93.835	93.799	93.799	93.649	93.689	93.780	93.689	93.649	93.799	93.799	93.835	93.889
EXISTING	95.036	94.830	94.185	94.105	94.089	93.847	93.675	93.663	93.662	93.662	93.661	93.657	93.646
OFFSET	-6.718	-4.880	-3.680	-3.530	-3.500	-3.050	0.000	3.050	3.500	3.530	3.680	4.880	6.700

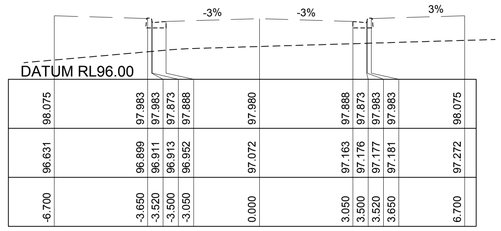
CHAINAGE 20.000



DATUM RL88.00

DESIGN	91.571	91.516	91.480	91.480	91.330	91.370	91.462	91.370	91.330	91.480	91.480	91.516	91.571
EXISTING	89.525	89.449	89.349	89.334	89.331	89.311	89.290	89.264	89.260	89.260	89.258	89.246	89.228
OFFSET	-6.717	-4.880	-3.680	-3.530	-3.500	-3.050	0.000	3.050	3.500	3.530	3.680	4.880	6.702

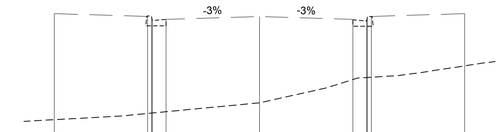
CHAINAGE 60.000



DATUM RL96.00

98.075	97.983	97.983	97.873	97.888	97.980	97.888	97.873	97.983	97.983	98.075
96.631	96.899	96.911	96.913	96.952	97.072	97.163	97.176	97.177	97.181	97.272
-6.700	-3.650	-3.520	-3.500	-3.050	0.000	3.050	3.500	3.520	3.650	6.700

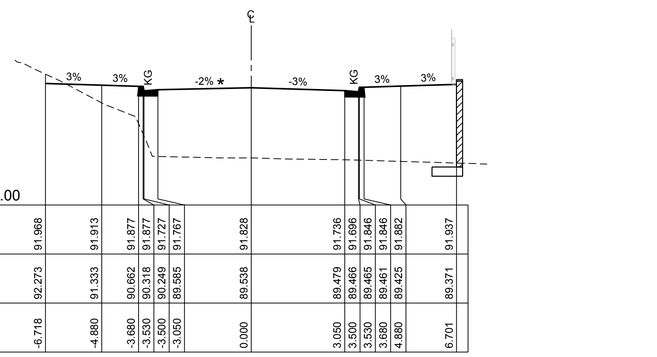
CH 120.000



DATUM RL91.00

95.426	95.335	95.335	95.225	95.240	95.331	95.240	95.225	95.335	95.335	95.426
91.965	92.168	92.180	92.182	92.225	92.515	93.276	93.341	93.342	93.350	93.722
-6.700	-3.650	-3.520	-3.500	-3.050	0.000	3.050	3.500	3.520	3.650	6.700

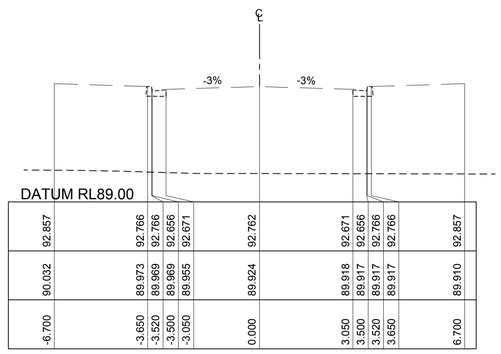
CH 100.000



DATUM RL88.00

DESIGN	91.968	91.913	91.877	91.877	91.727	91.767	91.828	91.736	91.696	91.846	91.846	91.882	91.937
EXISTING	92.273	91.333	90.662	90.318	90.249	89.585	89.538	89.479	89.466	89.465	89.461	89.425	89.371
OFFSET	-6.718	-4.880	-3.680	-3.530	-3.500	-3.050	0.000	3.050	3.500	3.530	3.680	4.880	6.701

CHAINAGE 40.000



DATUM RL89.00

92.857	92.766	92.766	92.656	92.671	92.762	92.671	92.656	92.766	92.766	92.857
90.032	89.973	89.969	89.969	89.955	89.924	89.918	89.917	89.917	89.917	89.910
-6.700	-3.650	-3.520	-3.500	-3.050	0.000	3.050	3.500	3.520	3.650	6.700

CH 80.000

KG : KERB AND GUTTER TO KU-RINGAI SPECIFICATIONS.
- REFER STD DRG 2004-004 REVISION B FOR DETAIL

* : CROSS FALL (LHS) VARIES FROM

-3% TO -2% BETWEEN CH 28 - CH 38
-2% TO -2% BETWEEN CH 38 - CH 45
-2% TO -3% BETWEEN CH 45 - CH 55

ROAD A CROSS-SECTIONS
(PART OF THIS CONTRACT)
SCALE 1:100

ROAD A CROSS-SECTIONS
(FUTURE WORKS)
SCALE 1:100

FOR CONSTRUCTION

5 4 3 2 1 0 5
1:100 @ A1

AMEND. No.	DATE	DETAILS
03	1/10/2013	ADDITIONAL INFORMATION AS PER COUNCIL REVIEW
02	26/07/2013	ISSUED FOR CONSTRUCTION
01	15/05/2013	ISSUED FOR INFORMATION

DIAL 1100 BEFORE YOU DIG

Project: PROPOSED ROAD OVER LOT 1 D.P. 949218
No. 32 DUMARESQ STREET, GORDON

Drawing Title: ROAD CROSS-SECTIONS

Principal: KU-RING-GAI COUNCIL

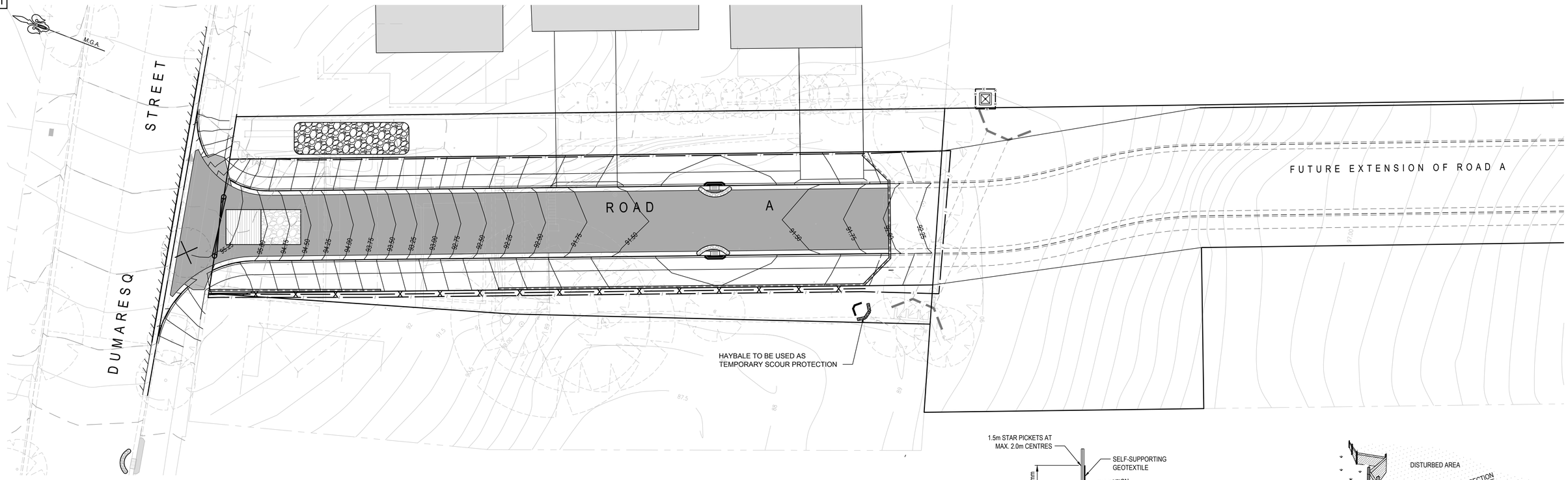
Scale	Date	Council Ref.
1:100	1/10/2013	
	Datum A.H.D.	L.G.A. KU-RING-GAI

Calc's M.V | Drawn. N.F. | Proj.Man. A.C. | Client Ref:

CRAIG & RHODES
ABN 77 050 209 991
Level 4, Suite 400
16-18 Cambridge St
EPPING NSW 2121
PO Box 233
EPPING NSW 1710
ACN 050 209 991
DX 4408 EPPING
Tel. 9869-1855
Fax. 9869-2341
reception@crhodes.com.au
www.craigandrhodes.com.au
© Craig & Rhodes

ISO 9001 Approved Company

Our Ref. 181-11
Dwg File Ref. [Rev] - Sheet Ref.
181-11C E102 [03]

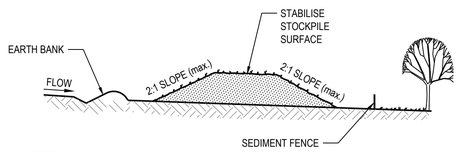


CONCEPT SEDIMENT AND EROSION CONTROL PLAN

SCALE 1:200

LEGEND

- TEMPORARY CONSTRUCTION ACCESS
- SITE STOCKPILE
- SITE FENCE
- SITE GATE
- SEDIMENT FENCE
- GEOTEXTILE INLET FILTER - DROP INLET SEDIMENT TRAP
- SEDIMENT TRAP FOR KERB INLET - WIRE MESH AND GRAVEL
- SEDIMENT TRAP - HAY BALES

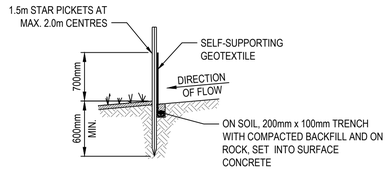


NOTES:

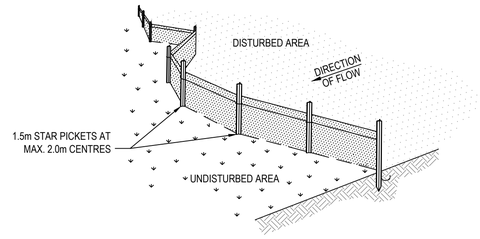
1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT. 4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

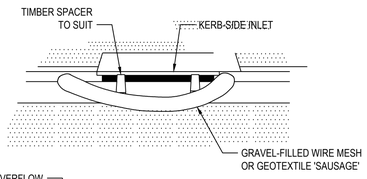
STOCKPILE

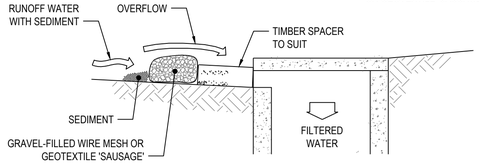
NOT TO SCALE



SECTION DETAIL





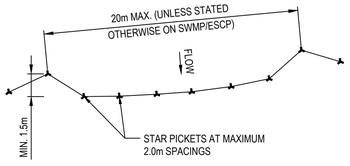


MESH AND GRAVEL INLET FILTER

NOT TO SCALE

NOTES:

1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100-mm SPACE BETWEEN IT AND THE KERB INLET . MAINTAIN THE OPENING WITH SPACE BLOCKS.
4. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
5. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.



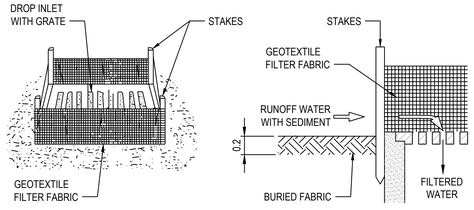
PLAN

NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50L/s IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.0m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE

NOT TO SCALE

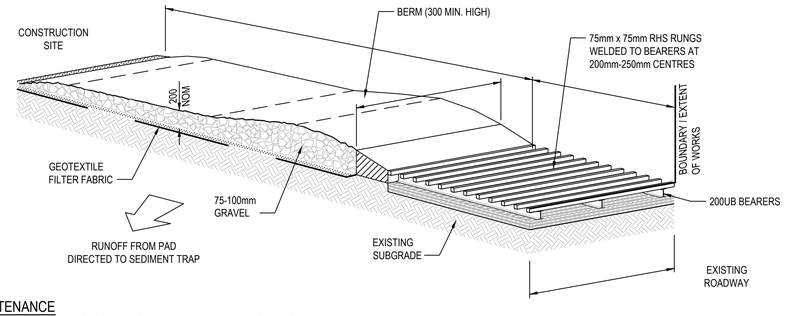


NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. CUT A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.0m LONG STAR PICKETS INTO GROUND AT THE FOUR CORNERS OF PIT WALLS. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

GEOTEXTILE INLET FILTER DROP INLET SEDIMENT TRAP

NOT TO SCALE



MAINTENANCE

- THE TEMPORARY ACCESS SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY,
- THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT,
- ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.
- INSTALL BARRIER ON EITHER SIDE OF SHAKER PAD TO ENSURE VEHICLES ARE GUIDED ON TO THE PAD.
- INVERT OF SHAKER PAD TO BE DRAINED VIA AGRICULTURAL PIPE WRAPPED IN GEOTEXTILE FABRIC.

STABILISED SITE ACCESS

NOT TO SCALE

AMEND. No.: 02	DATE: 1/10/2013	DETAILS:	ADDITIONAL INFORMATION AS PER COUNCIL REVIEW
AMEND. No.: 01	DATE: 26/07/2013	DETAILS:	ISSUED FOR CONSTRUCTION

DIAL 1100 BEFORE YOU DIG

Project: PROPOSED ROAD OVER LOT 1 D.P. 949218
No. 32 DUMARESQ STREET, GORDON

Drawing Title: CONCEPT SEDIMENT AND EROSION CONTROL PLAN AND DETAILS

Principal: KU-RING-GAI COUNCIL

Scale: AS SHOWN	Date: 1/10/2013	Council Ref.	
	Datum: A.H.D.	L.G.A. KU-RING-GAI	
Calc's: M.V	Drawn: C.S.	Proj.Man.: A.C.	Client Ref:

CRAIG & RHODES

ABN 77 050 209 991
Level 4, Suite 400
16-18 Cambridge St
EPPING NSW 2121
PO Box 233
EPPING NSW 1710

ACN 050 209 991
DX 4408 EPPING
Tel. 9869-1855
Fax. 9869-2341
reception@crhodes.com.au
www.craigandrhodes.com.au

© Craig & Rhodes

QMS ISO 9001 Approved Company

Our Ref.: 181-11

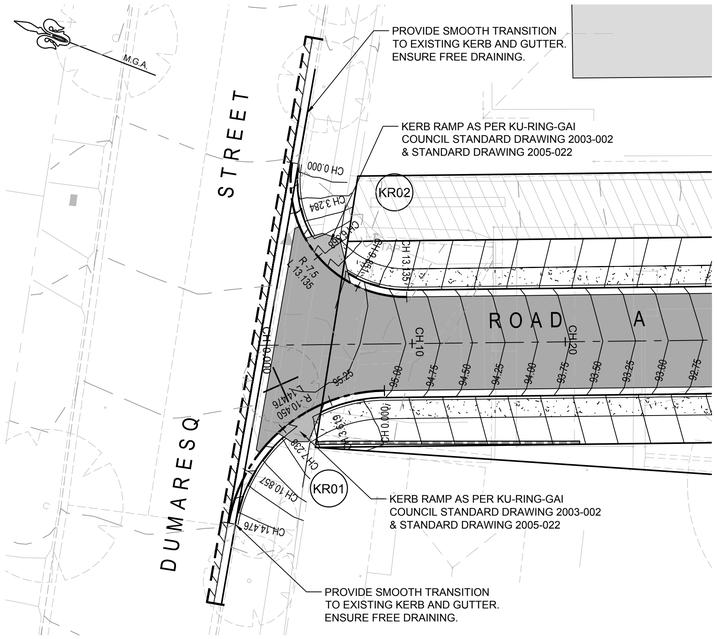
Dwg File Ref. [Rev] - Sheet Ref.

181-11C E103 [02]

FOR CONSTRUCTION

CAD REF: F:\181-11\C_PLANS\181-11C E103.DWG - 181121 - RV - AF - A1 - DATE PRINTED 07/09/2021 14:31 PM

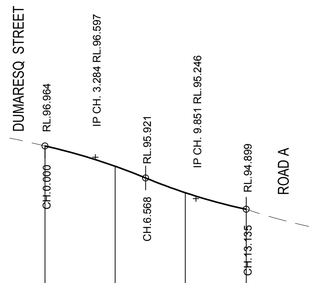
A1



PLAN

SCALE 1:200

ROAD A SETOUT TABLE							
Pt	Chainage	Easting	Northing	Level	Bearing	A.Length	D.Angle
	0	328553.56	6263431.78	95.51	158°19'15.34"		
	10	328557.25	6263422.49	94.95	158°19'15.34"		
	20	328560.95	6263413.2	93.78	158°19'15.34"		
	30	328564.64	6263403.91	92.64	158°19'15.34"		
	40	328568.33	6263394.61	91.83	158°19'15.34"		
	50	328572.03	6263385.32	91.44	158°19'15.34"		
	60	328575.72	6263376.03	91.46	158°19'15.34"		
	70	328579.42	6263366.74	91.9	158°19'15.34"		
IP2	79.69	328583	6263357.73	92.73			
	80	328583.11	6263357.44	92.76	157°52'39.54"		
IP3	84.85	328584.91	6263352.91	93.33		10.32	14°46'47.34"
	90	328587.99	6263348.74	94.01	143°33'11.02"		
IP4	90.01	328588	6263348.74	94.01			
IP5	93.11	328589.84	6263346.25	94.42			
IP6	98.23	328592.9	6263342.1	95.1		10.25	14°41'10.20"
	100	328593.44	6263340.38	95.33	153°24'58.64"		
IP7	103.36	328594.81	6263337.31	95.78			
	110	328597.27	6263331.14	96.66	158°13'50.11"		
	120	328600.98	6263321.86	97.98	158°13'50.11"		
	130	328604.69	6263312.57	99.3	158°13'50.11"		
	140	328608.4	6263303.28	100.63	158°13'50.11"		
	150	328612.11	6263294	101.69	158°13'50.11"		
IP8	155.83	328614.27	6263288.58	101.91	158°13'50.11"		



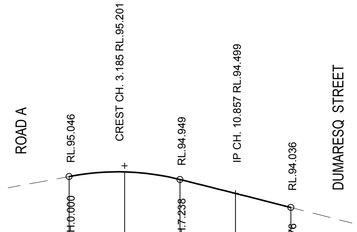
Horiz Curve Data	R-7.5m		
Vertical Geometry Grade (%)	-11.198%	-20.57%	-10.543%
Vertical Grade Length (m)	8.284m	6.568m	8.284m
Vertical Curve Length (m)	L 6.568	L 6.568	
Vertical Curve Radius (m)	R 70.073	R 65.498	

DATUM R.L.84.000

DESIGN ELEVATION	96.964	96.302	95.439	94.899	
CHAINAGE	0	4.581	9.162	13.135	

LONGITUDINAL SECTION - KR01

HORIZONTAL SCALE - 1:200
VERTICAL SCALE - 1:100



Horiz Curve Data	R-10.45m		
Vertical Geometry Grade (%)	9.771%	-12.432%	-12.796%
Vertical Grade Length (m)	8.619m	7.238m	8.619m
Vertical Curve Length (m)	L 7.238	L 7.238	
Vertical Curve Radius (m)	R 32.598	R 1992.596	

DATUM R.L.84.000

DESIGN ELEVATION	95.046	95.198	94.949	94.496	94.036
CHAINAGE	0	3.619	7.238	10.857	14.476

LONGITUDINAL SECTION - KR02

HORIZONTAL SCALE - 1:200
VERTICAL SCALE - 1:100

FOR CONSTRUCTION

AMEND. No.: 03	DATE: 1/10/2013	DETAILS:	ADDITIONAL INFORMATION AS PER COUNCIL REVIEW
AMEND. No.: 01	DATE: 26/07/2013	DETAILS:	ISSUED FOR CONSTRUCTION

DIAL 1100 BEFORE YOU DIG

Project: PROPOSED ROAD OVER LOT 1 D.P. 949218
No. 32 DUMARESQ STREET, GORDON

Drawing Title: KERB RETURN LAYOUT PLAN AND LONGITUDINAL SECTIONS

Principal: KU-RING-GAI COUNCIL

Scale: AS SHOWN	Date: 1/10/2013	Council Ref.	
	Datum: A.H.D.	L.G.A.	KU-RING-GAI
Calc's: M.V	Drawn.: C.S.	Proj.Man.: A.C.	Client Ref:

CRAIG & RHODES
ABN 77 050 209 991
Level 4, Suite 400
16-18 Cambridge St
EPPING NSW 2121
PO Box 233
EPPING NSW 1710
ACN 050 209 991
DX 4408 EPPING
Tel. 9869-1855
Fax. 9869-2341
reception@crhodes.com.au
www.craigandrhodes.com.au

© Craig & Rhodes

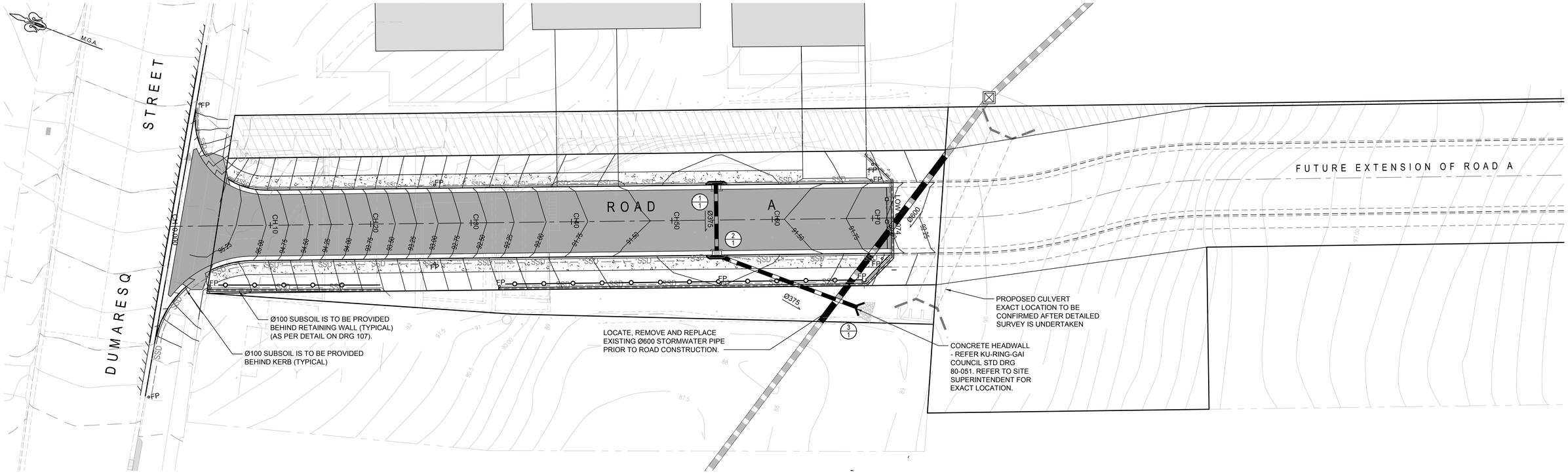
ISO 9001 Approved Company

Our Ref. 181-11

Dwg File Ref. [Rev] - Sheet Ref.

181-11C E104 [02]

A1

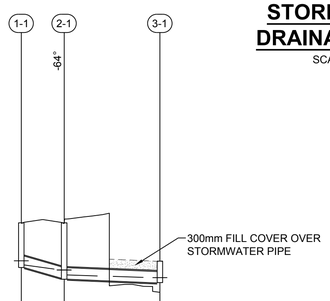


STORMWATER DRAINAGE PLAN

SCALE 1:200

LEGEND

- 93.00 — DESIGN CONTOUR
- ØXXX — XXX = PIPE DIAMETER; STORMWATER PIPE - REFER KU-RING-GAI COUNCIL STANDARD DRAWING 2004-010 [RevB] FOR PIPE TRENCH MATERIALS.
- GRATED SAG PIT WITH EXTENDED KERB INLET - REFER KU-RING-GAI COUNCIL STD DRG 80-048
- CONCRETE HEADWALL; REFER KU-RING-GAI COUNCIL STD DRG 80-051
- SSD — SUBSOIL HIGH END RISER
- SSD — SUBSOIL INTERMEDIATE RISER



	1-1	2-1		3-1
PIPE FLOW (L/s)		58	116	
PIPE GRADE (%)		5.0%	0.8%	
PIPE SIZE (mm)		375	375	
PIPE TYPE, CLASS		RCP	RCP	
DATUM (m)		81.00		
SURFACE LEVEL	91.29	91.29		90.50
HYDRAULIC GRADE LINE	90.05 / 89.92	89.75 / 89.59		89.50
INVERT LEVEL	89.83	89.48 / 89.45		89.33 / 89.33 / 89.34
PIPE CHAINAGE	0.00	7.00		22.63

STORMWATER LONGITUDINAL SECTION

- LINE 1 -

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:20

PIT SCHEDULE

NAME	DESCRIPTION
- LINE 1 -	
1-1	STANDARD 1.8m LINTEL PIT (SAG) - REFER KU-RING-GAI COUNCIL STD DRG 80-048
2-1	STANDARD 1.8m LINTEL PIT (SAG) - REFER KU-RING-GAI COUNCIL STD DRG 80-048
3-1	CONCRETE HEADWALL - REFER KU-RING-GAI COUNCIL STD DRG 80-051

FOR CONSTRUCTION

AMEND No.	DATE	DETAILS
02	1/10/2013	ADDITIONAL INFORMATION AS PER COUNCIL REVIEW
01	26/07/2013	ISSUED FOR CONSTRUCTION

DIAL 1100 BEFORE YOU DIG

Project: PROPOSED ROAD OVER LOT 1 D.P. 949218, No. 32 DUMARESQ STREET, GORDON

Drawing Title: STORMWATER DRAINAGE PLAN AND LONGITUDINAL SECTION

Principal: KU-RING-GAI COUNCIL

Scale	Date	Council Ref.
AS SHOWN	1/10/2013	
	Datum A.H.D.	L.G.A. KU-RING-GAI
Calc's M.V	Drawn. C.S.	Proj.Man. A.C. / Client Ref:

CRAIG & RHODES
ABN 77 050 209 991
Level 4, Suite 400
16-18 Cambridge St
EPPING NSW 2121
PO Box 233
EPPING NSW 1710
ACN 050 209 991
DX 4408 EPPING
Tel. 9869-1855
Fax. 9869-2341
reception@crhodes.com.au
www.craigandrhodes.com.au

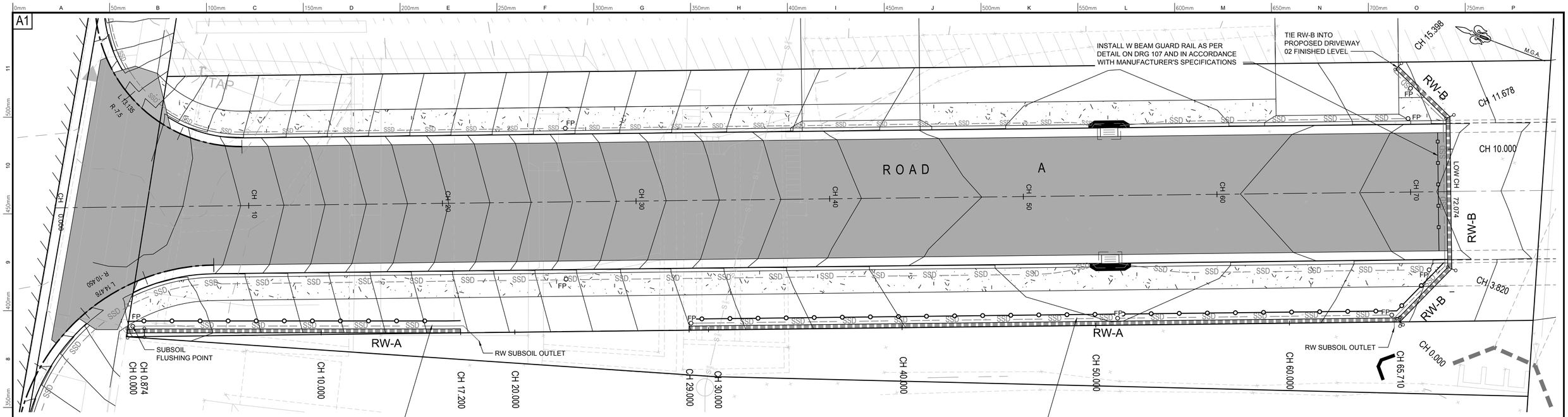
© Craig & Rhodes

LQMS ISO 9001 Approved Company

Our Ref. 181-11

Dwg File Ref. [Rev] - Sheet Ref.

181-11C E105 [02]



REFER DRG 105 FOR DETAIL OF BLOCK RETAINING WALL

RETAINING WALL SETOUT PLAN

SCALE 1:100

RETAINING WALL SETOUT

IP CHAINAGE	EASTING	NORTHING
RW-A		
CH 0.000	328548.823	6263426.036
CH 0.874	328549.159	6263425.229
CH 17.200	328555.022	6263409.992
CH 29.000	328559.381	6263399.027
CH 65.710	328572.942	6263364.914
RW-B		
CH 0.000	328572.942	6263364.914
CH 3.820	328576.449	6263363.401
CH 11.678	328583.752	6263366.304
CH 15.398	328585.225	6263369.720

LEGEND

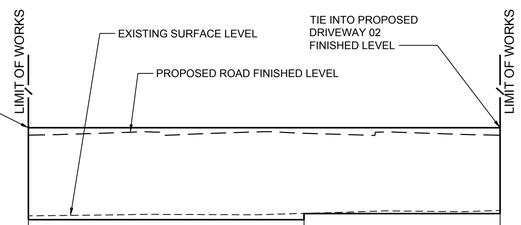
RW — BLOCK RETAINING WALL - REFER DRG BELOW FOR ELEVATIONS AND DRG 107 DETAILS

INSTALL PEDESTRIAN FENCE AS PER KU-RING-GAI COUNCIL SPECIFICATIONS.

ENGINEERS AUSTRALIA

R.C. SPRINGETT.

MIEAust CPEng
Chartered Professional Engineer
NPER (72223)

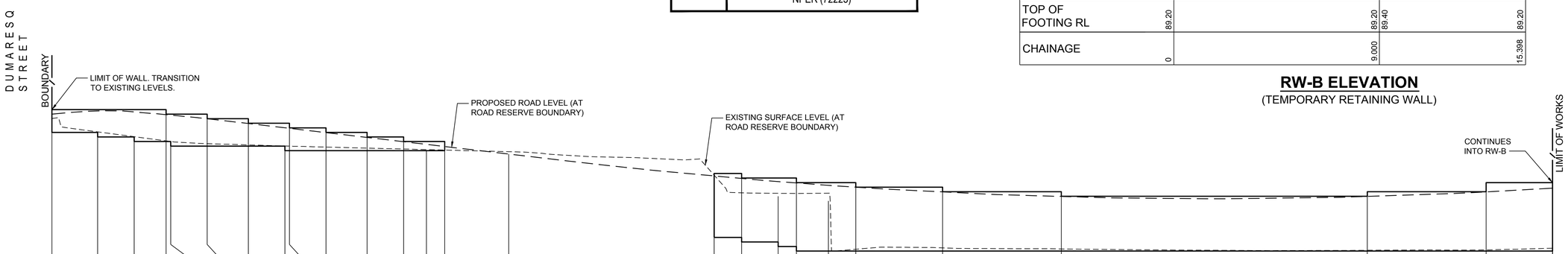


DATUM R.L. 87.00

WALL HEIGHT (m)	3.00	3.00	2.80	2.80
TOP OF WALL RL	92.20	92.20		92.20
TOP OF FOOTING RL	89.20	89.20	89.40	89.20
CHAINAGE	0	9.000		15.398

RW-B ELEVATION

(TEMPORARY RETAINING WALL)



DATUM R.L. 87.00

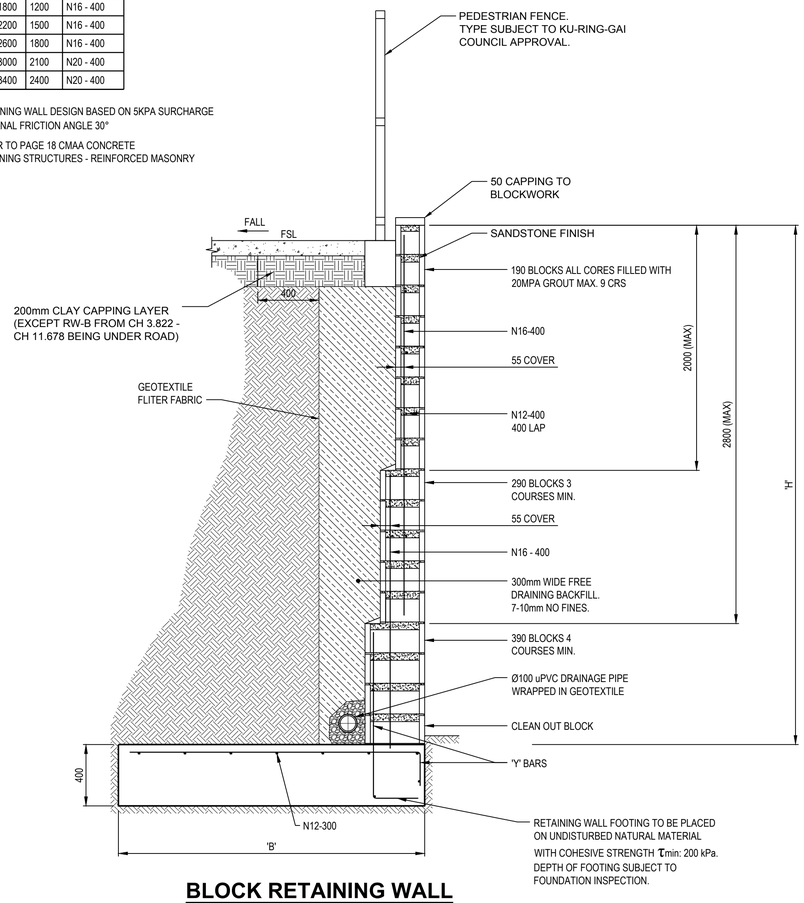
| | | | |

A1

RETAINING WALL SCHEDULE		
'H'	'B'	'Y' BARS
0 - 800	700	N12 - 400
800-1200	800	N12 - 400
1200-1800	1200	N16 - 400
1800-2200	1500	N16 - 400
2200-2600	1800	N16 - 400
2600-3000	2100	N20 - 400
3000-3400	2400	N20 - 400

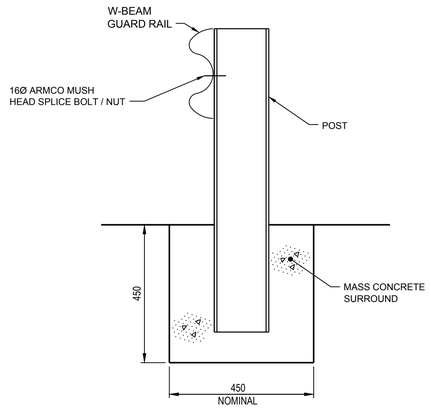
RETAINING WALL DESIGN BASED ON 5KPA SURCHARGE
INTERNAL FRICTION ANGLE 30°

REFER TO PAGE 18 CMAA CONCRETE
RETAINING STRUCTURES - REINFORCED MASONRY



BLOCK RETAINING WALL

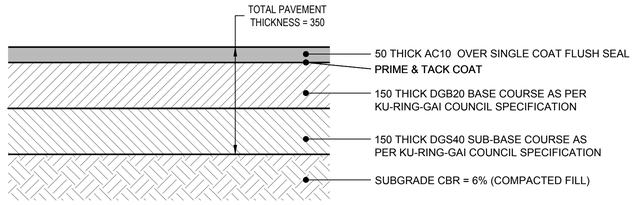
SCALE 1:10



GUARD RAIL IN GROUND OR A.C. PAVEMENT

SCALE 1:10

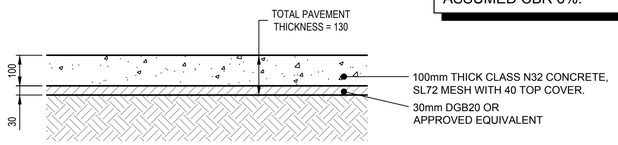
REFER TO ARMCO SPEC'N FOR
DETAILS OR APPROVED EQUIVALENT



SCALE 1:10

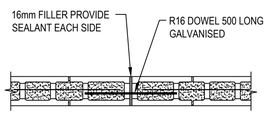
PROPOSED ROAD A PAVEMENT

IN ABSENCE OF GEOTECHNICAL
REPORT, THE PAVEMENTSUB-GRADE
ASSUMED CBR 6%.



CONCRETE FOOTPATH

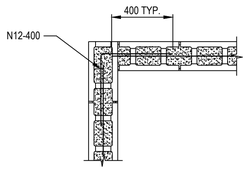
REFER KU-RING-GAI COUNCIL STANDARD
DRG No. 2003-004 FOR MORE DETAILS
SCALE 1:10



BLOCK WORK JOINT DETAIL

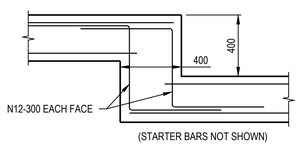
SCALE 1:20

(PROVIDE JOINT IN BLOCKWORK WALLS AT 8M
MAX. CENTRES AND WHERE ADJACENT WALL
HEIGHTS VARY BY MORE THAN 400mm).



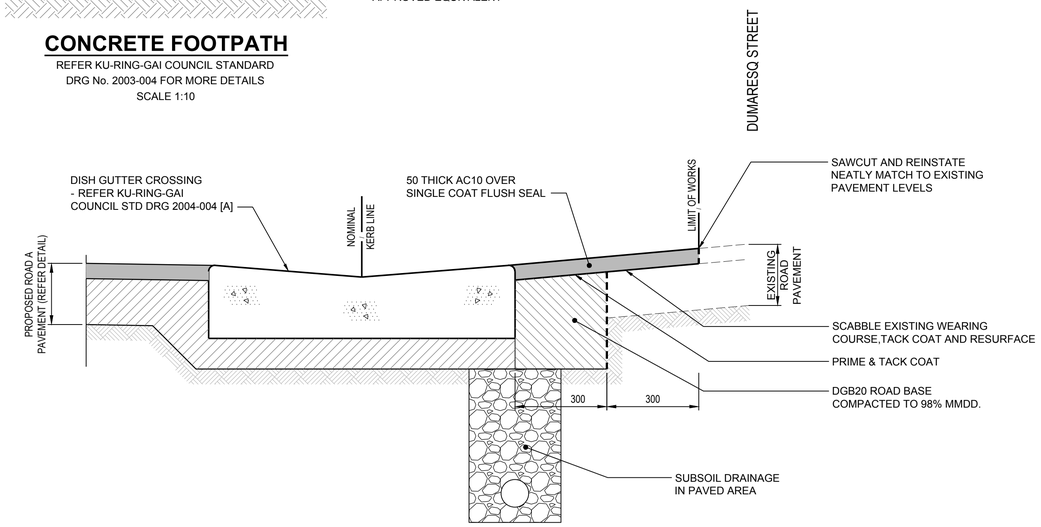
BLOCK WORK CORNER JOINT DETAIL

SCALE 1:20



STEPPED FOOTING DETAIL

SCALE 1:20



PAVEMENT REINSTATEMENT

SCALE 1:10

ENGINEERS AUSTRALIA

R.C. SPRINGETT.

MIEAust CPEng
Chartered Professional Engineer
NPER (72223)

CONCRETE NOTES

GENERAL

1. USE "AS3972-1997-PORTLAND AND BLENDED CEMENTS-TYPE GP" CEMENT (UNO).
2. ALL CONCRETE SHALL BE SUBJECT TO PROJECT CONTROL SAMPLE AND TESTING TO AS3600-2001-CONCRETE STRUCTURES.
3. CONSOLIDATE BY VIBRATION. CURE SURFACES AS SHOWN ON THE PLANS OR AS DIRECTED IN THE SPECIFICATION OR AS DIRECTED BY THE SUPERINTENDENT.
4. FIX REINFORCEMENT AS SHOWN ON DRAWINGS. THE TYPE AND GRADE IS INDICATED BY A SYMBOL AS SHOWN BELOW:
   - N — HOT ROLLED DEFORMED BAR, GRADE 500
   - R — PLAIN ROUND BAR, GRADE 250
   - SL / RL — HARD DRAWN WIRE FABRIC SQUARE OR RECTANGULAR FOLLOWING THIS SYMBOL A NUMERAL INDICATES THE SPECIFIED DIAMETER.
5. PROVIDE BAR SUPPORTS OR SPACERS TO PROVIDE CONCRETE COVER AS DETAILED TO ALL REINFORCEMENT.

CONCRETE PAVEMENTS

6. CONCRETE MIX PARAMETERS -
   MAXIMUM AGGREGATE SIZE 20mm
   FLEXURAL STRENGTH AT 28 DAYS = 4.0 MPa
7. (F'c=32MPa)SAWN JOINTS ARE TO BE CUT NOT SOONER THAN 24 HOURS AND NOT LATER THAN 48 HOURS AFTER CONCRETE POUR TO PREVENT SHRINKAGE CRACKS.
8. DOWELS AND TIE BARS TO MEET STRENGTH REQUIREMENTS OF STRUCTURAL GRADE STEEL IN ACCORDANCE WITH AS ISO 1302-2005-GEOMETRICAL PRODUCT SPECIFICATIONS. DOWELS AND TIE BARS SHALL BE -
   - STRAIGHT,
   - TO LENGTH SPECIFIED,
   - ALL DOWELS TO BE HOT DIP GALVANISED,
   - SAWN TO LENGTH NOT CROPPED.
9. THE BASE COURSE SHALL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER IMMEDIATELY PRIOR TO POURING THE CONCRETE.
10. ALL WORK TO BE FINISHED TO SATISFY ITS INTENDED USE AS SHOWN ON THE PLANS, AND / OR IN ACCORDANCE WITH THE SPECIFICATION AND GOOD ENGINEERING PRACTICE.

FOR CONSTRUCTION

AMEND. No:	DATE:	DETAILS:
02	1/10/2013	ADDITIONAL INFORMATION AS PER COUNCIL REVIEW
01	26/07/2013	ISSUED FOR CONSTRUCTION

DIAL 1100 BEFORE YOU DIG

Project: PROPOSED ROAD OVER LOT 1 D.P. 949218
No. 32 DUMARESQ STREET, GORDON

Drawing Title: SITEWORKS DETAILS

Principal: KU-RING-GAI COUNCIL

Scale	Date	Council Ref.
AS SHOWN	1/10/2013	
	Datum A.H.D.	L.G.A. KU-RING-GAI
Calc's R.C.S	Drawn. C.S.	Proj.Man. A.C. Client Ref:

CRAIG & RHODES

ABN 77 050 209 991
Level 4, Suite 400
16-18 Cambridge St
EPPING NSW 2121
PO Box 233
EPPING NSW 1710

ACN 050 209 991
DX 4408 EPPING
Tel. 9869-1855
Fax. 9869-2341
reception@crhodes.com.au
www.craigandrhodes.com.au

© Craig & Rhodes

QMS ISO 9001 Approved Company

Our Ref. 181-11

Dwg File Ref. [Rev] - Sheet Ref.

181-11C E107 [02]