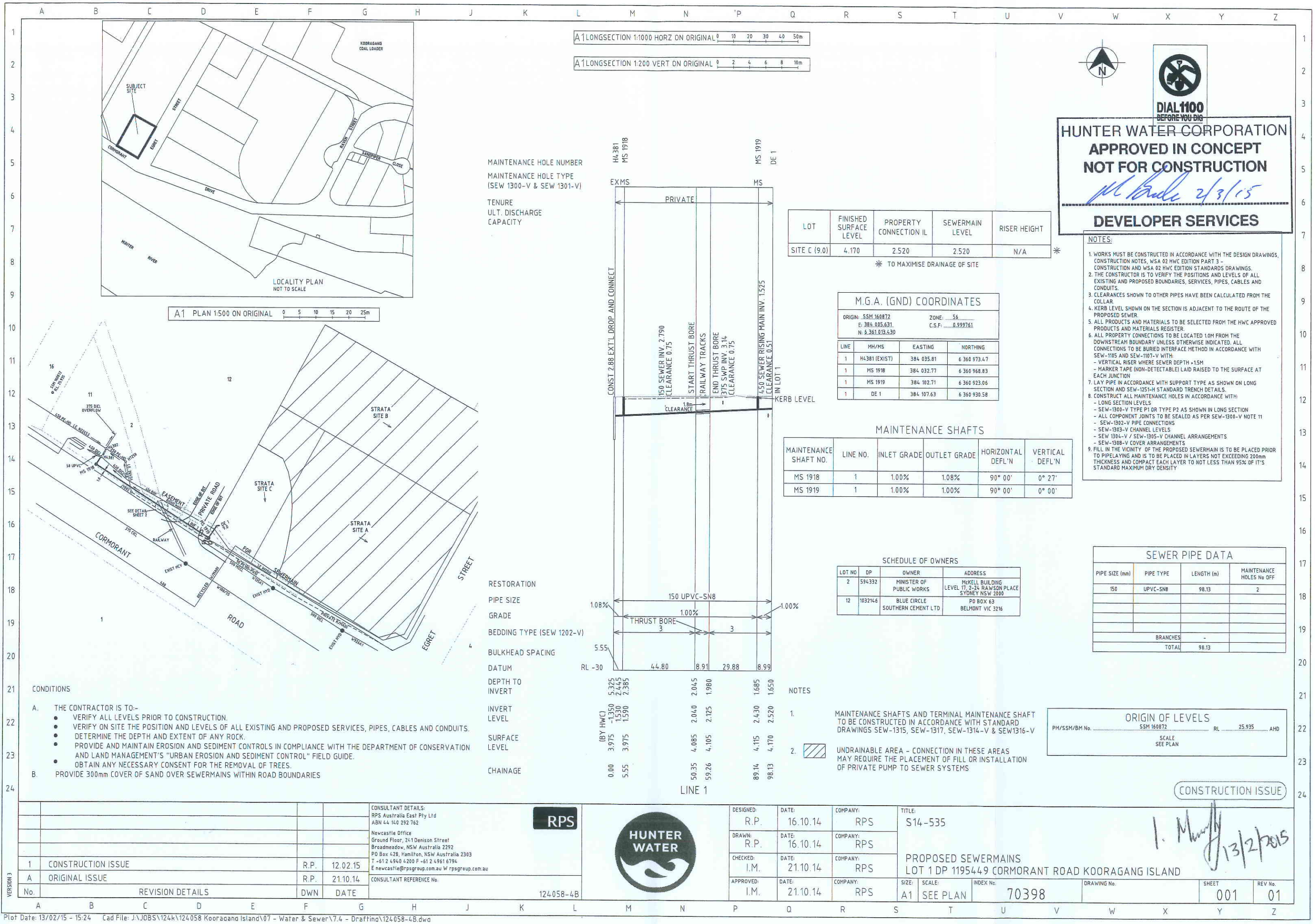




A1 LONGSECTION 1:1000 HORIZ ON ORIGINAL 0 10 20 30 40 50m
A1 LONGSECTION 1:200 VERT ON ORIGINAL 0 2 4 6 8 10m



HUNTER WATER CORPORATION
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Handwritten signature and date: 2/3/15
DEVELOPER SERVICES

LOT	FINISHED SURFACE LEVEL	PROPERTY CONNECTION IL	SEWERMAIN LEVEL	RISER HEIGHT
SITE C (9.0)	4.170	2.520	2.520	N/A

* TO MAXIMISE DRAINAGE OF SITE

M.G.A. (GND) COORDINATES			
ORIGIN: .SSM.160872		ZONE: 56	
E: 384.005.631		C.S.F: 0.999761	
N: 6.361.013.430			
LINE	MH/MS	EASTING	NORTHING
1	H4381 (EXIST)	384.035.81	6.360.973.47
1	MS 1918	384.032.77	6.360.968.83
1	MS 1919	384.102.71	6.360.923.06
1	DE 1	384.107.63	6.360.930.58

MAINTENANCE SHAFTS					
MAINTENANCE SHAFT NO.	LINE NO.	INLET GRADE	OUTLET GRADE	HORIZONTAL DEFL'N	VERTICAL DEFL'N
MS 1918	1	1.00%	1.08%	90° 00'	0° 27'
MS 1919	1	1.00%	1.00%	90° 00'	0° 00'

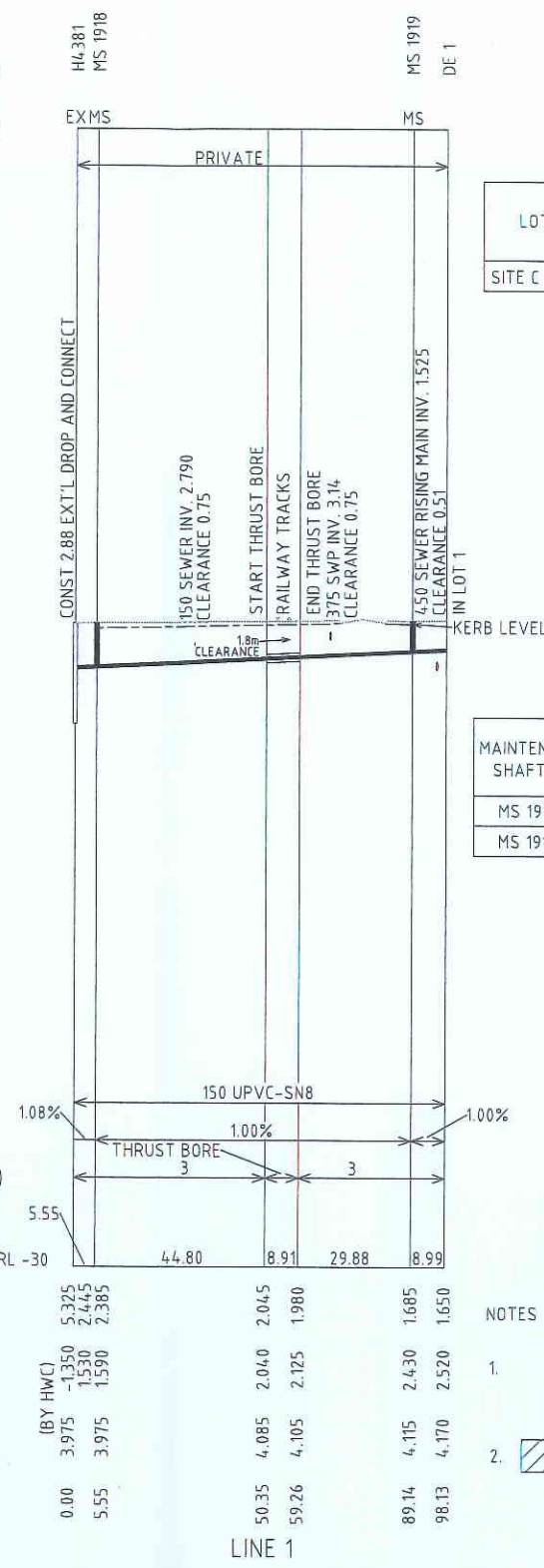
SCHEDULE OF OWNERS			
LOT NO	DP	OWNER	ADDRESS
2	594332	MINISTER OF PUBLIC WORKS	McKELL BUILDING LEVEL 17, 2-24 RAWSON PLACE SYDNEY NSW 2000
12	1032146	BLUE CIRCLE SOUTHERN CEMENT LTD	PO BOX 63 BELMONT VIC 3216

SEWER PIPE DATA			
PIPE SIZE (mm)	PIPE TYPE	LENGTH (m)	MAINTENANCE HOLES No OFF
150	UPVC-SN8	98.13	2
BRANCHES		-	
TOTAL		98.13	

ORIGIN OF LEVELS			
PM/SSM/BM No.	SSM 160872	RL	25.935 AHD
SCALE: SEE PLAN			

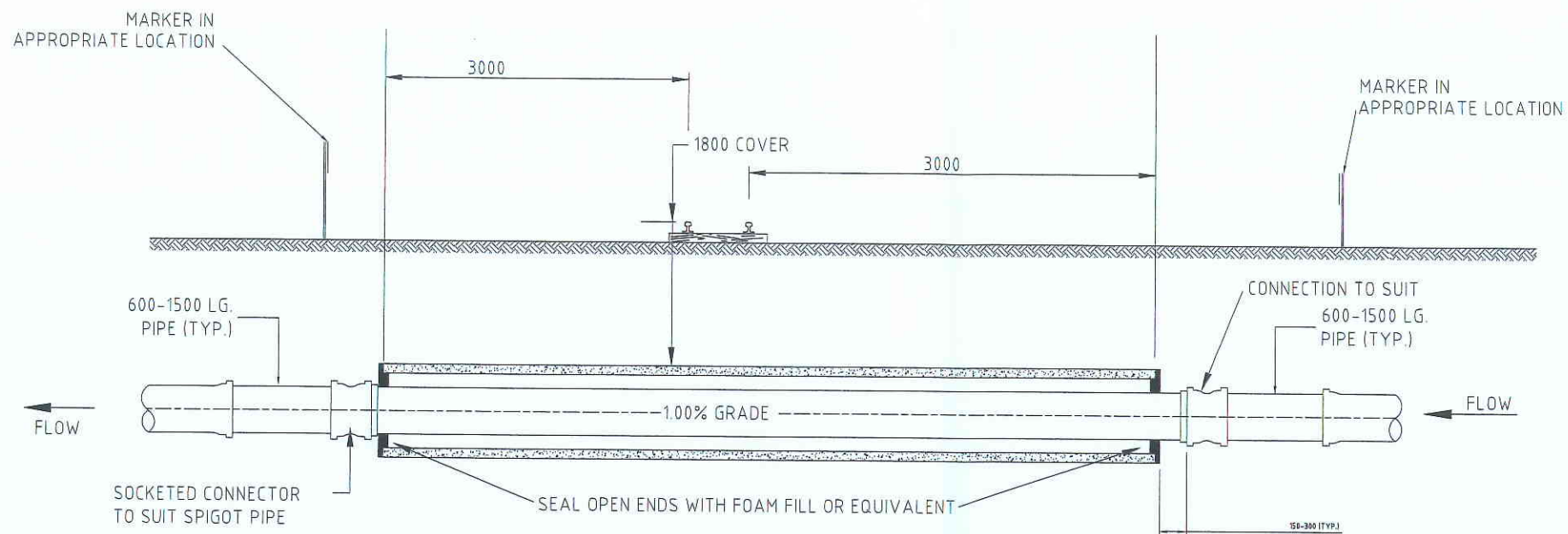
- CONDITIONS
- A. THE CONTRACTOR IS TO:-
- VERIFY ALL LEVELS PRIOR TO CONSTRUCTION.
 - VERIFY ON SITE THE POSITION AND LEVELS OF ALL EXISTING AND PROPOSED SERVICES, PIPES, CABLES AND CONDUITS.
 - DETERMINE THE DEPTH AND EXTENT OF ANY ROCK.
 - PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROLS IN COMPLIANCE WITH THE DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT'S "URBAN EROSION AND SEDIMENT CONTROL" FIELD GUIDE.
 - OBTAIN ANY NECESSARY CONSENT FOR THE REMOVAL OF TREES.
- B. PROVIDE 300mm COVER OF SAND OVER SEWERMAINS WITHIN ROAD BOUNDARIES

- RESTORATION
- PIPE SIZE
- GRADE
- BEDDING TYPE (SEW 1202-V)
- BULKHEAD SPACING
- DATUM
- DEPTH TO INVERT
- INVERT LEVEL
- SURFACE LEVEL
- CHAINAGE



- NOTES
1. MAINTENANCE SHAFTS AND TERMINAL MAINTENANCE SHAFT TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS SEW-1315, SEW-1317, SEW-1314-V & SEW1316-V
2. UNDRAINABLE AREA - CONNECTION IN THESE AREAS MAY REQUIRE THE PLACEMENT OF FILL OR INSTALLATION OF PRIVATE PUMP TO SEWER SYSTEMS

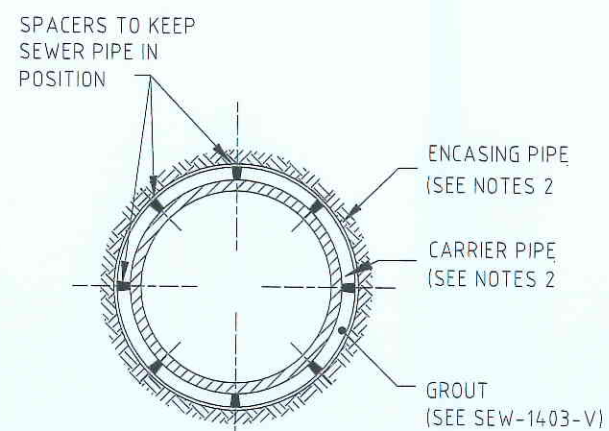
CONSULTANT DETAILS: RPS Australia East Pty Ltd ABN 44 140 292 762 Newcastle Office Ground Floor, 24/1 Denison Street Broadmeadow, NSW Australia 2292 PO Box 428, Hamilton, NSW Australia 2303 T +61 2 4940 4200 F +61 2 4961 6794 E newcastle@rpsgroup.com.au W rpsgroup.com.au			RPS		HUNTER WATER		DESIGNED: R.P. DATE: 16.10.14 COMPANY: RPS	TITLE: S14-535	
CONSULTANT REFERENCE No.							DRAWN: R.P. DATE: 16.10.14 COMPANY: RPS	PROPOSED SEWERMAINS	
1 CONSTRUCTION ISSUE			R.P.		12.02.15		CHECKED: I.M. DATE: 21.10.14 COMPANY: RPS	LOT 1 DP 1195449 CORMORANT ROAD KOORAGANG ISLAND	
A ORIGINAL ISSUE			R.P.		21.10.14		APPROVED: I.M. DATE: 21.10.14 COMPANY: RPS	SIZE: A1 SCALE: SEE PLAN INDEX No: 70398	
No. REVISION DETAILS			DWN		DATE		DRAWING No. SHEET 001 REV No. 01		



BORED OR JACKED ENCASING PIPE METHOD

FOR INSTALLATIONS AFTER TRACK CONSTRUCTION

(SEE SEW-1403-V)



TYPICAL SECTION

ENCASING PIPE & SEWER ARRANGEMENTS



NOTES:

1. ALL DIMENSIONS IN MILLIMETRES.
2. HORIZONTAL BORING
ENCASING PIPE - 375mm STEEL (BARE) PIPE WALL THICKNESS 5mm
(SUBJECT TO APPROVAL BY RAILWAY AUTHORITY)
3. SEWER PIPE
- 150 UPVC-SN8
PLACE MARKERS ABOVE PIPELINE IN APPROPRIATE LOCATIONS.

HUNTER WATER CORPORATION
APPROVED IN CONCEPT
NOT FOR CONSTRUCTION
M. Burke 2/3/15
DEVELOPER SERVICES

REVISION DETAILS			
No.		DWN	DATE
1	CONSTRUCTION ISSUE	R.P.	12.02.15
A	ORIGINAL ISSUE	R.P.	21.10.14

CONSULTANT DETAILS:
RPS Australia East Pty Ltd
ABN 44 140 292 762
Newcastle Office
Ground Floor, 241 Denison Street
Broadmeadow, NSW Australia 2292
PO Box 428, Hamilton, NSW Australia 2303
T +61 2 4940 4200 F +61 2 4961 6794
E newcastle@rpsgroup.com.au W rpsgroup.com.au

RPS



DESIGNED:	DATE:	COMPANY:
R.P.	16.10.14	RPS
DRAWN:	DATE:	COMPANY:
R.P.	16.10.14	RPS
CHECKED:	DATE:	COMPANY:
I.M.	21.10.14	RPS
APPROVED:	DATE:	COMPANY:
I.M.	21.10.14	RPS

TITLE:
S14-535

PROPOSED SEWERMAIN RAILWAY CROSSING
LOT 1 DP 1195449 CORMORANT ROAD KOORAGANG ISLAND

SIZE:	SCALE:	INDEX No:	DRAWING No	SHEET	REV No.
A1	NTS	70398		002	01

CONSTRUCTION ISSUE

I. M. Burke
13/2/2015