

7.1. Matora Lane, Cremorne – Laneway Upgrade

AUTHOR: Report of Engineering Project Manager, Shahid Rehman

ENDORSED BY: Duncan Mitchell, Director Engineering and Property Services

ATTACHMENTS: {attachment-list-do-not-remove}

PURPOSE:

The purpose of this report is to address community concerns on the existing condition of Matorla Lane, Cremorne and discuss the proposed upgrading of the Laneway to improve safety for all road users.

EXECUTIVE SUMMARY:

A report concerning speeding and public safety issues at Matora Lane, Cremorne request to upgrade the laneway to address speeding issues and implement public road safety measures by reducing the speed limit from 50km/hr to 10km/hr and carry out the following upgrade works:

1. Introduce road widening at the entry to Matora lane from Young Street
2. Introducing bend widening and a passing bay where there is little to no forward visibility of on-coming traffic.
3. Safety barrier and retaining wall works at the steep embankment on the northern side of the lane and re-profiling parts of the embankment to meet Australian road design standards.
4. Kerb and Gutter and Drainage works to improve embankment stability due to soil erosion.
5. New road surfacing from Young Street to the Primrose Park carpark
6. New road signage
7. Road markings and reflective markings

FINANCIAL IMPLICATIONS:

Nil

RECOMMENDATION:

1. **THAT** Traffic Committee endorse the proposal to reduce the speed limit at Matora Lane from 50km/hr to 10km/hr.
2. **THAT** Traffic Committee endorse the Traffic aspect of the proposed works as identified in

this report to address public safety concerns raised by the community about the current condition of Matora Lane.

3.THAT Traffic Committee note that a Construction Traffic Management Plan (CTMP) will be produced to ensure that access to the Tennis Courts, Arts and Crafts centre and the adjoining Sports field carpark will be maintained during the construction period.

LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

2. Our Built Infrastructure

2.1 Infrastructure and assets meet diverse community needs

2.4 Efficient traffic mobility and parking

4. Our Social Vitality

4.1 North Sydney is connected, inclusive, healthy and safe

CONSULTATION REQUIREMENTS

Consultation will be undertaken with all key stakeholders who use Matora Lane on the development of a Construction Traffic Management Plan (CTMP)

DETAIL

Matora Lane is a narrow laneway (average 5.2m wide) located in Cremorne, off Young Street which is approximately 160m in length. It is used primarily by locals and visitors to access/egress Primrose Park car park for the sports field and community facilities at Primrose Park which include the newly upgraded Tennis Courts, Art & Craft Centre and Artist Studios.

Please refer to Attachment 1 for the location plan and photos showing the existing condition of the laneway.

The designated speed limit on Matora Lane is currently 50km/hr. Though it is not signposted this is the default road speed on all local roads in North Sydney – unless signposted otherwise.

The current road geometry of the laneway and its existing alignment and profile are not considered appropriate for a 50km/hr speed limit. The roadway is also used frequently by pedestrians to access the facilities as there is no dedicated footpath due to the narrowness of the lane and surrounding topography.

A recent speed and traffic survey undertaken (October 2022) highlighted the average weekly 85th percentile speed of the laneway was between 20 and 27 km/hr at the three locations tested. Refer to Attachment 2 for details.

Furthermore, local residents and users of the community facilities at Primrose Park have complained to Council about the condition of the Lane and Public Safety concerns around its narrowness and vehicle speeds. Upgrading of the Laneway has been identified by council in its delivery program for 2021-22 but was postponed until after the completion of the Primrose Park tennis courts upgrade which required heavy vehicles (Concrete Trucks, Tippers and the like) to use the Laneway on a daily basis.

The proposal to improve publicly safety in the laneway and also address its condition includes the following:

1. Reduce the speed limit to 10km/hr
2. Introduce road widening at the entry to Matora lane from Young Street
3. Introducing bend widening and a passing bay where there is little to no forward visibility of on-coming traffic.
4. Safety barrier and retaining wall works at the steep embankment on the northern side of the lane and re-profiling parts of the embankment to meet Australian road design standards.
5. Kerb and Gutter and Drainage works to improve embankment stability due to soil erosion.
6. New road surfacing from Young Street to the Primrose Park carpark
7. New road signage
8. Road markings and reflective markings

Additionally, Ausgrid have been contacted to improve the street lighting on the laneway.

Refer to Attachment 3 for further details of the design.

ATTACHMENT 1 - MATORA LANE UPGRADE – VISUAL CONDITION PHOTOGRAPHS



LOCATION PLAN

MATORA LANE RECONSTRUCTION



PLAN SHOWING IMAGE LOCATIONS FOR MATORA LANE

MATORA LANE - VISUAL CONDITION PHOTOGRAPHS



Image 1

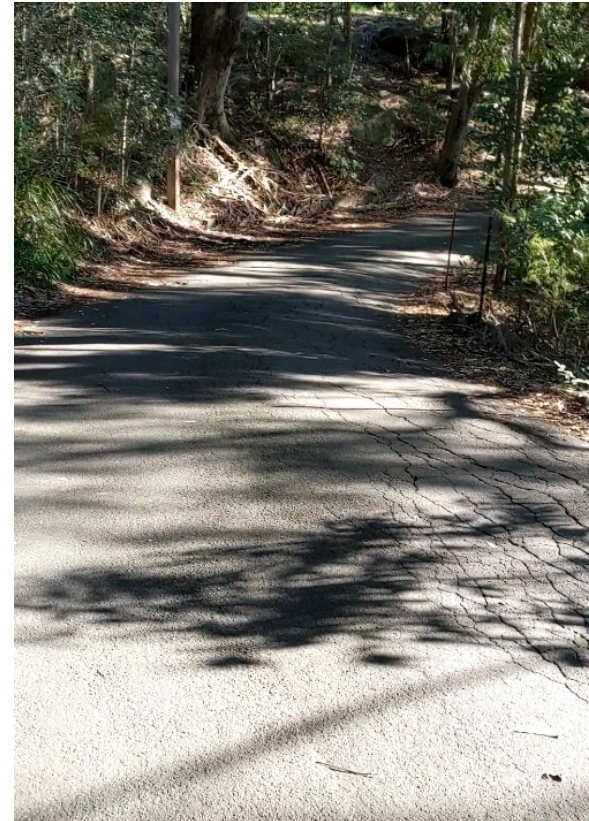


Image 2

MATORA LANE - VISUAL CONDITION PHOTOGRAPHS



Image 3



Image 4

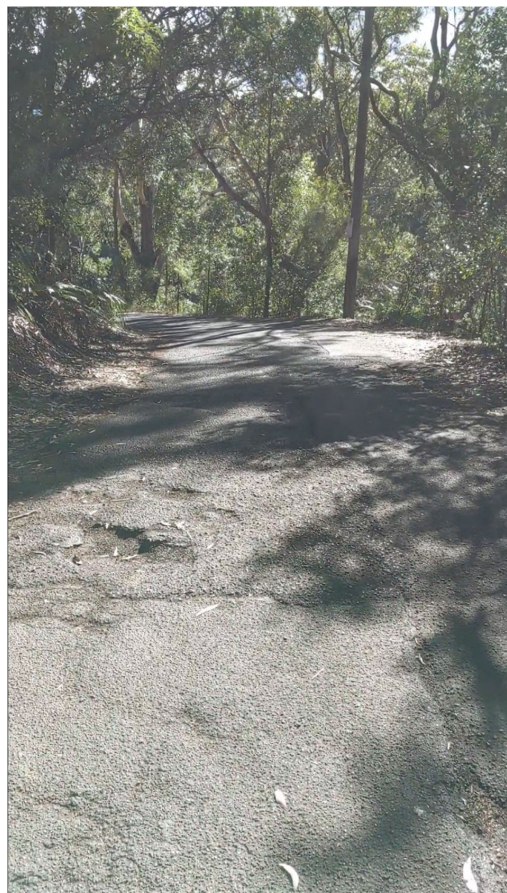


Image 5

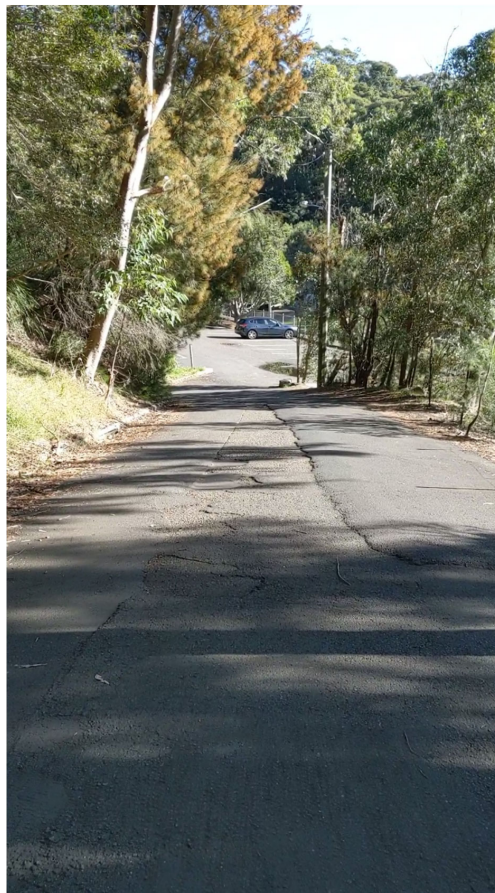


Image 6



Image 7

Count Number 1187 Ref : OCT22
 Street MATORA LANE, CREMORNE : Between YOUNG STREET & CUL-DE-SACs (bidirectional) :
 Location On the first straight from Young St, on Tree Carriageway

TOTAL COUNT MATRIX

Start Date	26-OCT-22	Weekly 50th Percentile Speed	20
Start Time	1900	Weekly 85th Percentile Speed	27
Duration	7 DAYS	Five Day AADT	223
Interval	1 HOUR	Seven Day AADT	211

	MON 31ST	TUE 1ST	WED 26TH / 2ND	THU 27TH	FRI 28TH	SAT 29TH	SUN 30TH	5 Day		7 Day	
								Total	Average	Total	Average
Midnight - 1am	0	0	0	0	0	0	0	0	0	0	0
1am - 2am	0	1	0	0	0	0	0	1	0	1	0
2am - 3am	0	0	0	0	0	0	0	0	0	0	0
3am - 4am	0	0	0	0	0	0	0	0	0	0	0
4am - 5am	0	0	0	2	0	0	0	2	0	2	0
5am - 6am	0	4	2	3	2	0	1	11	2	12	2
6am - 7am	3	32	4	11	5	4	1	55	11	60	9
7am - 8am	7	6	2	4	14	1	5	33	7	39	6
8am - 9am	10	7	4	10	28	17	9	59	12	85	12
9am - 10am	9	6	17	15	11	17	13	58	12	88	13
10am - 11am	19	17	7	30	15	18	16	88	18	122	17
11am - Midday	7	7	28	14	17	14	9	73	15	96	14
Midday - 1pm	11	9	10	16	12	15	12	58	12	85	12
1pm - 2pm	4	14	10	8	8	22	11	44	9	77	11
2pm - 3pm	7	7	13	8	8	20	13	43	9	76	11
3pm - 4pm	15	16	14	11	18	16	18	74	15	108	15
4pm - 5pm	11	15	43	22	21	15	15	112	22	142	20
5pm - 6pm	28	16	62	26	14	32	10	146	29	188	27
6pm - 7pm	18	15	25	19	18	7	6	95	19	108	15
7pm - 8pm	14	10	14	11	1	12	6	50	10	68	10
8pm - 9pm	13	16	19	12	3	0	0	63	13	63	9
9pm - 10pm	11	8	9	1	2	5	1	31	6	37	5
10pm - 11pm	3	9	1	6	0	0	1	19	4	20	3
11pm - Midnight	0	1	0	0	0	0	0	1	0	1	0
Total	190	216	284	229	197	215	147	1116	223	1478	211

Count Number 1188 Ref : OCT22
 Street MATORA LANE, CREMORNE : Between YOUNG STREET & CUL-DE-SACs (bidirectional) :
 Location On the second straight from Young St, on Tree Carriageway

TOTAL COUNT MATRIX

Start Date	17-OCT-22	Weekly 50th Percentile Speed	20
Start Time	1300	Weekly 85th Percentile Speed	27
Duration	7 DAYS	Five Day AADT	201
Interval	1 HOUR	Seven Day AADT	186

	MON 17TH / 24TH	TUE 18TH	WED 19TH	THU 20TH	FRI 21ST	SAT 22ND	SUN 23RD	5 Day		7 Day	
								Total	Average	Total	Average
Midnight - 1am	0	0	0	0	0	2	0	0	0	2	0
1am - 2am	0	0	0	0	0	0	0	0	0	0	0
2am - 3am	0	0	0	0	0	0	0	0	0	0	0
3am - 4am	0	0	0	0	0	0	0	0	0	0	0
4am - 5am	0	0	0	1	0	0	0	1	0	1	0
5am - 6am	3	3	3	1	3	0	0	13	3	13	2
6am - 7am	9	33	3	11	10	1	0	66	13	67	10
7am - 8am	4	6	5	3	6	3	1	24	5	28	4
8am - 9am	2	4	4	17	18	5	6	45	9	56	8
9am - 10am	9	15	17	20	8	11	8	69	14	88	13
10am - 11am	7	10	8	15	4	29	9	44	9	82	12
11am - Midday	8	5	21	9	15	15	5	58	12	78	11
Midday - 1pm	4	10	10	7	6	16	3	37	7	56	8
1pm - 2pm	6	20	9	11	9	19	11	55	11	85	12
2pm - 3pm	9	16	8	15	10	29	11	58	12	98	14
3pm - 4pm	10	16	20	17	19	14	10	82	16	106	15
4pm - 5pm	8	26	19	18	28	24	9	99	20	132	19
5pm - 6pm	13	17	27	17	11	19	10	85	17	114	16
6pm - 7pm	19	22	24	21	12	9	8	98	20	115	16
7pm - 8pm	8	13	17	5	3	6	4	46	9	56	8
8pm - 9pm	16	18	14	7	1	0	2	56	11	58	8
9pm - 10pm	13	16	12	3	2	0	0	46	9	46	7
10pm - 11pm	4	8	7	0	0	0	0	19	4	19	3
11pm - Midnight	0	2	0	0	0	0	0	2	0	2	0
Total	152	260	228	198	165	202	97	1003	200	1302	186

Count Number 1189 Ref : OCT22
 Street MATORA LANE, CREMORNE : Between YOUNG STREET & CUL-DE-SACs (bidirectional) :
 Location On the third straight from Young St, ELP MO14973 Carriageway

TOTAL COUNT MATRIX	Start Date	17-OCT-22	Weekly 50th Percentile Speed	16
	Start Time	1300	Weekly 85th Percentile Speed	20
	Duration	7 DAYS	Five Day AADT	207
	Interval	1 HOUR	Seven Day AADT	194

	MON 17TH / 24TH	TUE 18TH	WED 19TH	THU 20TH	FRI 21ST	SAT 22ND	SUN 23RD	5 Day		7 Day	
								Total	Average	Total	Average
Midnight - 1am	0	0	0	0	0	2	0	0	0	2	0
1am - 2am	0	0	0	0	0	0	0	0	0	0	0
2am - 3am	0	0	0	0	0	0	0	0	0	0	0
3am - 4am	0	0	0	0	0	0	0	0	0	0	0
4am - 5am	0	0	0	1	0	0	0	1	0	1	0
5am - 6am	3	3	3	1	3	0	0	13	3	13	2
6am - 7am	10	35	1	11	11	0	0	68	14	68	10
7am - 8am	4	6	5	5	5	4	1	25	5	30	4
8am - 9am	2	4	3	16	19	6	7	44	9	57	8
9am - 10am	9	16	18	21	8	14	9	72	14	95	14
10am - 11am	8	9	12	17	6	32	12	52	10	96	14
11am - Midday	7	4	22	7	15	13	5	55	11	73	10
Midday - 1pm	5	10	10	8	6	15	3	39	8	57	8
1pm - 2pm	7	20	13	10	10	21	13	60	12	94	13
2pm - 3pm	10	14	10	17	10	29	12	61	12	102	15
3pm - 4pm	11	17	18	13	20	13	10	79	16	102	15
4pm - 5pm	8	29	21	19	25	29	11	102	20	142	20
5pm - 6pm	14	18	29	19	13	21	10	93	19	124	18
6pm - 7pm	19	22	23	24	14	11	9	102	20	122	17
7pm - 8pm	8	12	16	6	3	4	4	45	9	53	8
8pm - 9pm	17	20	14	8	1	1	2	60	12	63	9
9pm - 10pm	12	15	12	2	2	0	0	43	9	43	6
10pm - 11pm	4	6	7	0	0	0	0	17	3	17	2
11pm - Midnight	0	2	0	0	0	0	0	2	0	2	0
Total	158	262	237	205	171	215	108	1033	206	1356	193

MATORA LANE LANEWAY UPGRADE, CREMORNE POINT LANEWAY UPGRADE

ALL WORKS MUST BE IN ACCORDANCE WITH THE NORTH SYDNEY COUNCIL INFRASTRUCTURE SPECIFICATIONS.

GENERAL NOTES

- G1. ALL DIMENSIONS ARE IN MILLIMETERS
- G2. ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS AND ARCHITECTURAL DRAWINGS.
- G3. ALL EXCAVATIONS SHALL BE UNDERTAKEN UNDER SUPERVISION OF STRUCTURAL ENGINEER AND ANY EXCESSIVE MOVEMENT OF THE EMBANKMENTS AND EXCAVATION SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER AND ADVICE SHALL BE SOUGHT.

CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND OTHER RELEVANT AUSTRALIAN CODES. C2. CONCRETE COMPONENTS AND QUALITY SHALL BE AS FOLLOWS:-

ELEMENT	SLUMP	AGGREGATE	CEMENT	f _c
RETAINING WALL AND FOOTING	80	20	G.P.	32

NOTE: MAXIMUM DRYING SHRINKAGE STRAIN (TO AS 1012 PART 13) SHALL NOT EXCEED 650 MICROMETERS AT 56 DAYS.

C3. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.

C4. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

C5. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER.

C6. CONDUITS, PIPES AND THE LIKE SHALL NOT BE PLACED WITHIN THE CONCRETE COVER.

C7. CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH AS 3600 AND SHALL COMMENCE WITHIN 2 HOURS OF FINISHING OPERATIONS AND SHALL BE MAINTAINED FOR A MINIMUM OF 7 DAYS USING AN APPROVED PROPRIETARY CURING COMPOUND EXCEPT CHLORINATED RUBBER BASED TYPE) OR CONTINUOUS PONDING WITH POTABLE WATER.

C8. ALIPHATIC ALCOHOL WHEN SHADE TEMPERATURE EXCEEDS 35 C SPRAY THE EXPOSED SURFACE OF CONCRETE SLAB DURING THE PLACING AND FINISHING OPERATION WITH FINE FILM OF APPROVED ALIPHATIC ALCOHOL. REPEAT THE SPRAY IF THE SPRAYED SURFACE HAS BEEN RE-WORKED.

C9. ENSURE ADEQUATE SUPPLY OF ALIPHATIC ALCOHOL ON SITE BEFORE COMMENCING CONCRETE WORK. C10. CALCIUM CHLORIDE IS NOT PERMITTED TO BE USED.

STRUCTURAL STEEL

S1. ALL MATERIALS AND WORKMANSHIP TO COMPLY WITH AS 4103.

S2. ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS UNO.

S3. ALL BOLTS, WASHERS & NUTS TO BE GRADE 8.8 or GALVANISED.

S4. FINISH: HOT DIP GALVANISE 600 g/m² COATING MASS PLUS A HIGH BUILD EPOXY FIRST COAT EQUIVALENT TO SYSTEM DESIGNATION HDG 600 P3 IN TABLE 5.3 OF AS/NZS 2312. COLOUR OF FIRST COAT TO BE SELECTED BY THE SUPERINTENDENT.

MONITORING EXISTING RETAINING WALL AND ROCK FACES

MER1. CONSIDERING PROXIMITY TO THE EXISTING RETAINING WALL, THE CONTRACTOR SHALL PREPARE DILATATION REPORTS FOR THE WORKS PRIOR TO COMMENCEMENT OF THE WORKS AND AFTER COMPLETION OF THE WORKS.

MER2. THE CONTRACTOR SHALL MONITOR THE EXISTING RETAINING WALL DURING DEMOLITION WORKS, EXCAVATION WORKS AND PILING WORKS.

MER3. IF THE PILING AND EXCAVATION WORKS ENCOUNTERED LARGE SANDSTONE BOLDERS WHICH COULD NOT BE REMOVED, THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER TO REVIEW THE SITUATION AND PROVIDE ADVICE REGARDING THE IMPACT ON THE RETAINING WALL STABILITY.

TRAFFIC BARRIER DESIGN AND INSTALLATION

TB1. THE TRAFFIC BARRIER DESIGN CRITERIA ARE SHOWN ON THE DRAWINGS.

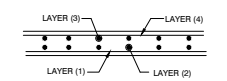
TB2. ALL TRAFFIC W/ BEAM BARRIERS, POSTS AND TERMINAL POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE RMS TECHNICAL SPECIFICATIONS AND MANUFACTURERS' MANUALS.

REINFORCEMENT

R1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND OTHER RELEVANT AUSTRALIAN CODES. R2. REINFORCEMENT TYPE AND GRADE.

SYMBOL	TYPE	AUS STAN	GRADE
R1 & S1	HOT ROLLED DEFORMED BARS	1302	500
	WELDED WIRE REINFORCEMENT FABRIC	1304	500

R3. BAR NOTATION GIVES THE FOLLOWING INFORMATION IN THIS ORDER: No. OF BARS, TYPE, BAR SIZE (mm), SPACING (mm), LAYER e.g. 2@ (Y OR N)16-200 (1) U.N.O.



R4. FABRIC NOTATION GIVES THE FOLLOWING INFORMATION IN THIS ORDER: 'RL' OR 'SL' SYMBOL, AS REFERENCE NUMBER, LOCATION, e.g. RL18 IS TOP.

R5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION.

R6. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

R7. ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS.

R8. CLEAR COVER TO FACE OF ALL REINFORCEMENT SHALL CONFORM TO THE FOLLOWING TABLE U.N.O. ON THE DRAWINGS.

EXPOSURE CONDITION	COVER (mm)
SURFACES OF MEMBERS IN CONTACT WITH THE GROUND.	30 U.N.O.
(A) SURFACE PROTECTED BY DAMP PROOF MEMBRANE	75
(B) UNPROTECTED SURFACES	75

R9. COVER SPECIFIED ALSO APPLIES LOCALLY AT RECESSES, DRIP GROOVES etc..

R10. LAP REINFORCEMENT ONLY AT LOCATIONS SHOWN ON THE DRAWINGS OR AS APPROVED, UNLESS OTHERWISE NOTED, LAP BARS AS TABULATED BELOW.

f _c	TENSION LAP SPlice LENGTH					
	COVER N12	N16	N20	N24	N28	N32
40	30	475	665	876	1200	1575

R11. FABRIC SHALL BE LAPPED SUCH THAT THE TWO OUTERMOST WIRES OF ONE SHEET OVERLAP THE TWO OUTERMOST WIRES OF THE OTHER SHEET BY 25 mm MINIMUM.

BAR SIZE	DEVELOPMENT SPlice LENGTH	
	MIN.	SPlice LENGTH (mm)
N12		375 (900)

LAP LENGTH SHOWN IN BRACKETS APPLY TO HORIZONTAL BARS WITH MORE THAN 300 MM OF CONCRETE CAST BELOW THE BAR.

R12. A MAXIMUM OF THREE SHEETS OF FABRIC SHALL BE LAPPED AT ANY POINT.

R13. HOOKS, BENDS AND COGS TO BE IN ACCORDANCE WITH AS 3600 (500 Min) UNLESS NOTED OTHERWISE ON DRAWINGS.

R14. ALL EXCAVATIONS SHALL BE FINISHED CLEAN AND HORIZONTAL.

R15. THE FILL IS TO BE PLACED AND COMPACTED IN LAYERS OF MAXIMUM LOOSE THICKNESS 200mm.

R16. TOP LAYER OF PAVED AREAS TO BE COMPACTED TO MINIMUM 100% STANDARD MAXIMUM DRY DENSITY.

R17. LOWER LAYERS IN PAVED AREAS AND ALL LAYERS IN BUILDING AREA TO BE COMPACTED TO A MINIMUM 98% STANDARD DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2% AS REQUIRED BY AS 1289 E1.1. GEOTECHNICAL ENGINEER TO VERIFY.

R18. ALL EMBANKMENTS TO BE COMPACTED IN 200 mm LAYERS AS PER NOTE G6 AND AT A MAXIMUM SLOPE OF 1 VERTICAL TO 3 HORIZONTAL UNLESS NOTED OTHERWISE SHOULD DRAINAGE BE REQUIRED THEN SUBMIT DETAILS TO THE ENGINEER.

R19. ALL GROUND WORKS SHALL BE TESTED BY AN APPROVED GEOTECHNICAL ENGINEER TO A LEVEL 2 STANDARD IN ACCORDANCE WITH AS 3798.

R20. CONTRACTOR TO ADVISE OF GEOTECHNICAL CONSULTANT PRIOR TO COMMENCEMENT OF THE CONSTRUCTION WORKS.

R21. ALL FILL MATERIAL SHALL BE INSPECTED AND APPROVED PRIOR TO COMMENCEMENT OF WORKS BY ACCREDITED GEOTECHNICAL OR STRUCTURAL ENGINEER.

CHEMICALLY ANCHORED REINFORCEMENT

CA1. WHERE SHOWN ON THE DRAWINGS REINFORCEMENT BARS SHALL BE CHEMICALLY ANCHORED INTO EXISTING CONCRETE AS DESCRIBED BELOW.

CA2. PERCUSSION DRILL (CORING NOT PERMITTED) A HOLE TO THE CORRECT DIAMETER AND DEPTH FOR THE PARTICULAR SIZE REINFORCING BAR AS TABULATED BELOW, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

BAR SIZE (Y OR N)	HOLE DIA (mm)	HOLE DEPTH (mm)
12	16	260
16	22	350
20	28	450
24	32	550

CA3. THOROUGHLY CLEAN THE HOLE USING A ROUND WIRE BRUSH AND BLOW OUT ALL DUST.

CA4. ENSURE HOLE IS CLEAN AND DRY AND INSERT SUFFICIENT HILTI HY 150 RESIN INTO THE BASE OF THE HOLE TO ENSURE THAT WHEN THE BAR IS INSTALLED RESIN APPEARS AT THE FACE OF THE HOLE.

CA5. IMMEDIATELY INSERT THE REINFORCING BAR INTO THE HOLE BY ROTATING SLOWLY TO FULLY COAT THE BAR WITH RESIN, AND PUSH FULLY INTO THE HOLE.

CA6. ENSURE BAR IS NOT DISTURBED WHILEST RESIN IS CURING. (APPROX. 2 HOURS).

TRAFFIC BARRIER DESIGN AND INSTALLATION

TB1. THE TRAFFIC BARRIER DESIGN CRITERIA ARE SHOWN ON DRAWINGS.

TB2. ALL TRAFFIC W/ BEAM BARRIERS, POSTS AND TERMINAL POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE RMS TECHNICAL SPECIFICATIONS AND MANUFACTURERS' MANUALS.



LOCATION PLAN OF MATORA LANE AND PRIMROSE PARK CAR PARK

DRAWING SCHEDULE

C001 GENERAL NOTES AND DRAWING SCH.	SHEET 1/9	REV 2
C100 ROAD DESIGN PLAN AND SECTION	SHEET 2/9	REV 2
C101 SETOUT PLAN	SHEET 3/9	REV 2
C102 CUT AND FILL PLAN	SHEET 4/9	REV 2
C103 CROSS SECTIONS SHEET 1	SHEET 5/9	REV 2
C104 CROSS SECTIONS SHEET 2	SHEET 6/9	REV 2
C200 SWEPT PATH ANALYSIS	SHEET 7/9	REV 2
C201 LINEMARKING AND SIGNAGE PLAN	SHEET 8/9	REV 2
C300 DETAILS	SHEET 9/9	REV 2

Date	No.	By	Amendments	Checked
	1			
	2			
01.11.2022	2	HN	ISSUED FOR TENDER	HN
01.10.2022	1	HN	ISSUED FOR REVIEW	HN



CLIENT:
NORTH SYDNEY COUNCIL

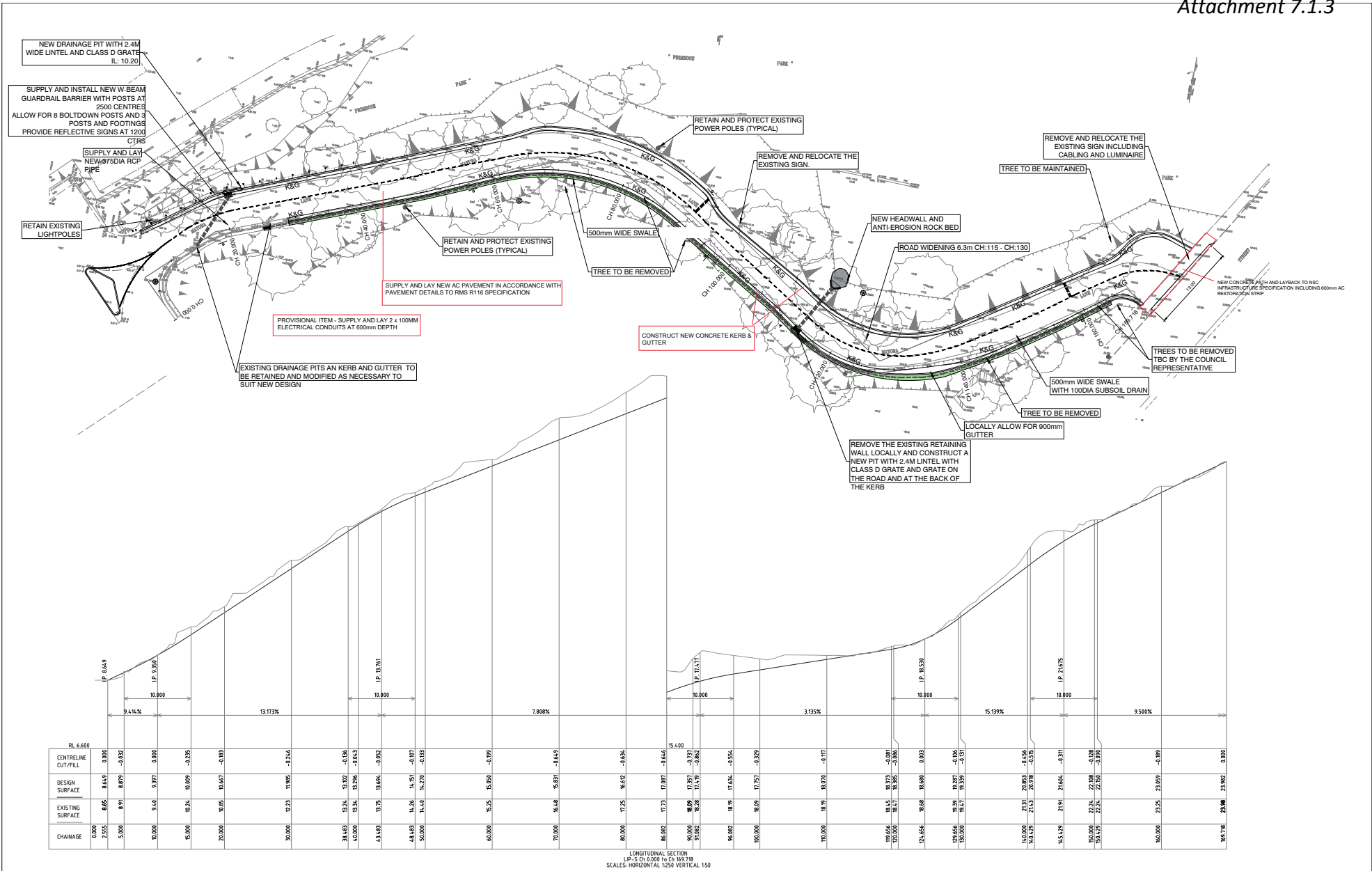
URBANSPEC ENGINEERING PTY LTD
 ABN 96 626 940 883
 M: 0411 352 614
 Email: hassan@urbanspec.com.au
 www.urbanspec.com.au

MATORA LANE LANEWAY UPGRADE
 CREMORNE POINT
 LANEWAY UPGRADE
 GENERAL NOTES AND DRAWING SCH.

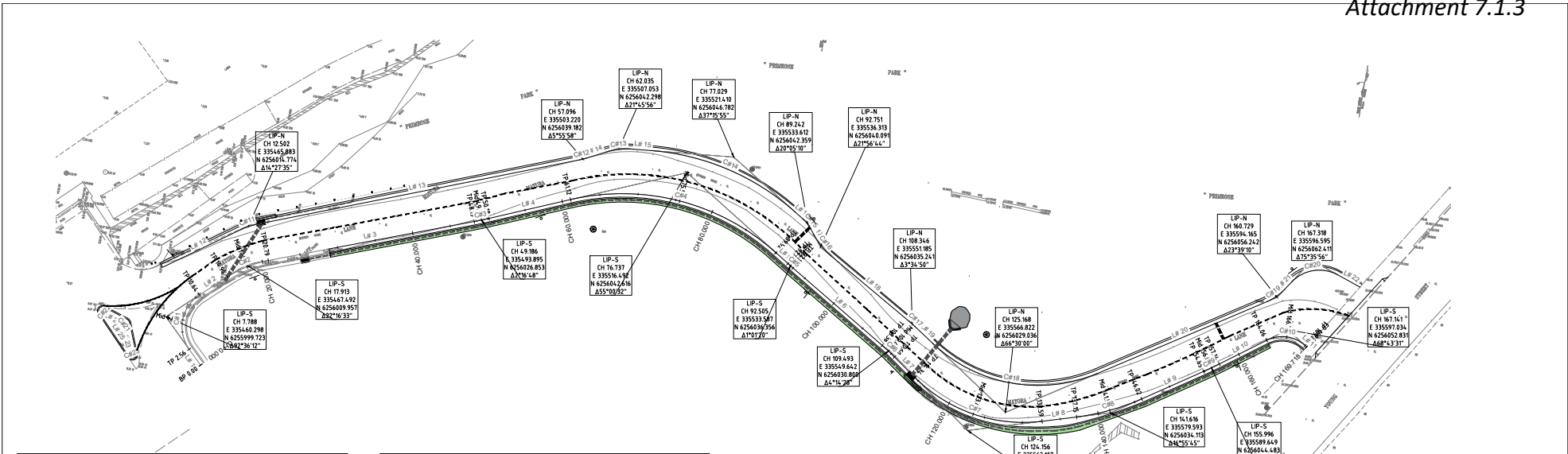
BEFORE YOU DIG
 www.bydo.com.au

ISSUED FOR REVIEW

Design:	HN	Checked:	HN	SCALE:	AS SHOWN	PAPER:	A1	Sheet No.:	1 OF 9
Drawn:	ZK	Approved:	HN						



<table border="1"> <tr><td>1</td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td></td></tr> <tr><td>17</td><td></td><td></td><td></td></tr> <tr><td>18</td><td></td><td></td><td></td></tr> <tr><td>19</td><td></td><td></td><td></td></tr> <tr><td>20</td><td></td><td></td><td></td></tr> <tr><td>21</td><td></td><td></td><td></td></tr> <tr><td>22</td><td></td><td></td><td></td></tr> <tr><td>23</td><td></td><td></td><td></td></tr> <tr><td>24</td><td></td><td></td><td></td></tr> <tr><td>25</td><td></td><td></td><td></td></tr> <tr><td>26</td><td></td><td></td><td></td></tr> <tr><td>27</td><td></td><td></td><td></td></tr> <tr><td>28</td><td></td><td></td><td></td></tr> <tr><td>29</td><td></td><td></td><td></td></tr> <tr><td>30</td><td></td><td></td><td></td></tr> <tr><td>31</td><td></td><td></td><td></td></tr> <tr><td>32</td><td></td><td></td><td></td></tr> <tr><td>33</td><td></td><td></td><td></td></tr> <tr><td>34</td><td></td><td></td><td></td></tr> <tr><td>35</td><td></td><td></td><td></td></tr> <tr><td>36</td><td></td><td></td><td></td></tr> <tr><td>37</td><td></td><td></td><td></td></tr> <tr><td>38</td><td></td><td></td><td></td></tr> <tr><td>39</td><td></td><td></td><td></td></tr> <tr><td>40</td><td></td><td></td><td></td></tr> <tr><td>41</td><td></td><td></td><td></td></tr> <tr><td>42</td><td></td><td></td><td></td></tr> <tr><td>43</td><td></td><td></td><td></td></tr> <tr><td>44</td><td></td><td></td><td></td></tr> <tr><td>45</td><td></td><td></td><td></td></tr> <tr><td>46</td><td></td><td></td><td></td></tr> <tr><td>47</td><td></td><td></td><td></td></tr> <tr><td>48</td><td></td><td></td><td></td></tr> <tr><td>49</td><td></td><td></td><td></td></tr> <tr><td>50</td><td></td><td></td><td></td></tr> <tr><td>51</td><td></td><td></td><td></td></tr> <tr><td>52</td><td></td><td></td><td></td></tr> <tr><td>53</td><td></td><td></td><td></td></tr> <tr><td>54</td><td></td><td></td><td></td></tr> <tr><td>55</td><td></td><td></td><td></td></tr> <tr><td>56</td><td></td><td></td><td></td></tr> <tr><td>57</td><td></td><td></td><td></td></tr> <tr><td>58</td><td></td><td></td><td></td></tr> <tr><td>59</td><td></td><td></td><td></td></tr> <tr><td>60</td><td></td><td></td><td></td></tr> <tr><td>61</td><td></td><td></td><td></td></tr> <tr><td>62</td><td></td><td></td><td></td></tr> <tr><td>63</td><td></td><td></td><td></td></tr> <tr><td>64</td><td></td><td></td><td></td></tr> <tr><td>65</td><td></td><td></td><td></td></tr> <tr><td>66</td><td></td><td></td><td></td></tr> <tr><td>67</td><td></td><td></td><td></td></tr> <tr><td>68</td><td></td><td></td><td></td></tr> <tr><td>69</td><td></td><td></td><td></td></tr> <tr><td>70</td><td></td><td></td><td></td></tr> <tr><td>71</td><td></td><td></td><td></td></tr> <tr><td>72</td><td></td><td></td><td></td></tr> <tr><td>73</td><td></td><td></td><td></td></tr> <tr><td>74</td><td></td><td></td><td></td></tr> <tr><td>75</td><td></td><td></td><td></td></tr> <tr><td>76</td><td></td><td></td><td></td></tr> <tr><td>77</td><td></td><td></td><td></td></tr> <tr><td>78</td><td></td><td></td><td></td></tr> <tr><td>79</td><td></td><td></td><td></td></tr> <tr><td>80</td><td></td><td></td><td></td></tr> <tr><td>81</td><td></td><td></td><td></td></tr> <tr><td>82</td><td></td><td></td><td></td></tr> <tr><td>83</td><td></td><td></td><td></td></tr> <tr><td>84</td><td></td><td></td><td></td></tr> <tr><td>85</td><td></td><td></td><td></td></tr> <tr><td>86</td><td></td><td></td><td></td></tr> <tr><td>87</td><td></td><td></td><td></td></tr> <tr><td>88</td><td></td><td></td><td></td></tr> <tr><td>89</td><td></td><td></td><td></td></tr> <tr><td>90</td><td></td><td></td><td></td></tr> <tr><td>91</td><td></td><td></td><td></td></tr> <tr><td>92</td><td></td><td></td><td></td></tr> <tr><td>93</td><td></td><td></td><td></td></tr> <tr><td>94</td><td></td><td></td><td></td></tr> <tr><td>95</td><td></td><td></td><td></td></tr> <tr><td>96</td><td></td><td></td><td></td></tr> <tr><td>97</td><td></td><td></td><td></td></tr> <tr><td>98</td><td></td><td></td><td></td></tr> <tr><td>99</td><td></td><td></td><td></td></tr> <tr><td>100</td><td></td><td></td><td></td></tr> </table>	1				2				3				4				5				6				7				8				9				10				11				12				13				14				15				16				17				18				19				20				21				22				23				24				25				26				27				28				29				30				31				32				33				34				35				36				37				38				39				40				41				42				43				44				45				46				47				48				49				50				51				52				53				54				55				56				57				58				59				60				61				62				63				64				65				66				67				68				69				70				71				72				73				74				75				76				77				78				79				80				81				82				83				84				85				86				87				88				89				90				91				92				93				94				95				96				97				98				99				100				<p>NORTH SYDNEY COUNCIL</p>	<p>CLIENT: NORTH SYDNEY COUNCIL</p>	<p>URBANSPEC ENGINEERING PTY LTD ABN 96 626 940 983 M: 0411 352 614 Email: hassan@urbanspec.com.au www.urbanspec.com.au</p>	<p>MATORA LANE LANEWAY UPGRADE CREMORNE POINT LANEWAY UPGRADE ROAD DESIGN PLAN</p>	<p>BEFORE YOU DIG www.beforeyoudig.com.au</p>
1																																																																																																																																																																																																																																																																																																																																																																																																																					
2																																																																																																																																																																																																																																																																																																																																																																																																																					
3																																																																																																																																																																																																																																																																																																																																																																																																																					
4																																																																																																																																																																																																																																																																																																																																																																																																																					
5																																																																																																																																																																																																																																																																																																																																																																																																																					
6																																																																																																																																																																																																																																																																																																																																																																																																																					
7																																																																																																																																																																																																																																																																																																																																																																																																																					
8																																																																																																																																																																																																																																																																																																																																																																																																																					
9																																																																																																																																																																																																																																																																																																																																																																																																																					
10																																																																																																																																																																																																																																																																																																																																																																																																																					
11																																																																																																																																																																																																																																																																																																																																																																																																																					
12																																																																																																																																																																																																																																																																																																																																																																																																																					
13																																																																																																																																																																																																																																																																																																																																																																																																																					
14																																																																																																																																																																																																																																																																																																																																																																																																																					
15																																																																																																																																																																																																																																																																																																																																																																																																																					
16																																																																																																																																																																																																																																																																																																																																																																																																																					
17																																																																																																																																																																																																																																																																																																																																																																																																																					
18																																																																																																																																																																																																																																																																																																																																																																																																																					
19																																																																																																																																																																																																																																																																																																																																																																																																																					
20																																																																																																																																																																																																																																																																																																																																																																																																																					
21																																																																																																																																																																																																																																																																																																																																																																																																																					
22																																																																																																																																																																																																																																																																																																																																																																																																																					
23																																																																																																																																																																																																																																																																																																																																																																																																																					
24																																																																																																																																																																																																																																																																																																																																																																																																																					
25																																																																																																																																																																																																																																																																																																																																																																																																																					
26																																																																																																																																																																																																																																																																																																																																																																																																																					
27																																																																																																																																																																																																																																																																																																																																																																																																																					
28																																																																																																																																																																																																																																																																																																																																																																																																																					
29																																																																																																																																																																																																																																																																																																																																																																																																																					
30																																																																																																																																																																																																																																																																																																																																																																																																																					
31																																																																																																																																																																																																																																																																																																																																																																																																																					
32																																																																																																																																																																																																																																																																																																																																																																																																																					
33																																																																																																																																																																																																																																																																																																																																																																																																																					
34																																																																																																																																																																																																																																																																																																																																																																																																																					
35																																																																																																																																																																																																																																																																																																																																																																																																																					
36																																																																																																																																																																																																																																																																																																																																																																																																																					
37																																																																																																																																																																																																																																																																																																																																																																																																																					
38																																																																																																																																																																																																																																																																																																																																																																																																																					
39																																																																																																																																																																																																																																																																																																																																																																																																																					
40																																																																																																																																																																																																																																																																																																																																																																																																																					
41																																																																																																																																																																																																																																																																																																																																																																																																																					
42																																																																																																																																																																																																																																																																																																																																																																																																																					
43																																																																																																																																																																																																																																																																																																																																																																																																																					
44																																																																																																																																																																																																																																																																																																																																																																																																																					
45																																																																																																																																																																																																																																																																																																																																																																																																																					
46																																																																																																																																																																																																																																																																																																																																																																																																																					
47																																																																																																																																																																																																																																																																																																																																																																																																																					
48																																																																																																																																																																																																																																																																																																																																																																																																																					
49																																																																																																																																																																																																																																																																																																																																																																																																																					
50																																																																																																																																																																																																																																																																																																																																																																																																																					
51																																																																																																																																																																																																																																																																																																																																																																																																																					
52																																																																																																																																																																																																																																																																																																																																																																																																																					
53																																																																																																																																																																																																																																																																																																																																																																																																																					
54																																																																																																																																																																																																																																																																																																																																																																																																																					
55																																																																																																																																																																																																																																																																																																																																																																																																																					
56																																																																																																																																																																																																																																																																																																																																																																																																																					
57																																																																																																																																																																																																																																																																																																																																																																																																																					
58																																																																																																																																																																																																																																																																																																																																																																																																																					
59																																																																																																																																																																																																																																																																																																																																																																																																																					
60																																																																																																																																																																																																																																																																																																																																																																																																																					
61																																																																																																																																																																																																																																																																																																																																																																																																																					
62																																																																																																																																																																																																																																																																																																																																																																																																																					
63																																																																																																																																																																																																																																																																																																																																																																																																																					
64																																																																																																																																																																																																																																																																																																																																																																																																																					
65																																																																																																																																																																																																																																																																																																																																																																																																																					
66																																																																																																																																																																																																																																																																																																																																																																																																																					
67																																																																																																																																																																																																																																																																																																																																																																																																																					
68																																																																																																																																																																																																																																																																																																																																																																																																																					
69																																																																																																																																																																																																																																																																																																																																																																																																																					
70																																																																																																																																																																																																																																																																																																																																																																																																																					
71																																																																																																																																																																																																																																																																																																																																																																																																																					
72																																																																																																																																																																																																																																																																																																																																																																																																																					
73																																																																																																																																																																																																																																																																																																																																																																																																																					
74																																																																																																																																																																																																																																																																																																																																																																																																																					
75																																																																																																																																																																																																																																																																																																																																																																																																																					
76																																																																																																																																																																																																																																																																																																																																																																																																																					
77																																																																																																																																																																																																																																																																																																																																																																																																																					
78																																																																																																																																																																																																																																																																																																																																																																																																																					
79																																																																																																																																																																																																																																																																																																																																																																																																																					
80																																																																																																																																																																																																																																																																																																																																																																																																																					
81																																																																																																																																																																																																																																																																																																																																																																																																																					
82																																																																																																																																																																																																																																																																																																																																																																																																																					
83																																																																																																																																																																																																																																																																																																																																																																																																																					
84																																																																																																																																																																																																																																																																																																																																																																																																																					
85																																																																																																																																																																																																																																																																																																																																																																																																																					
86																																																																																																																																																																																																																																																																																																																																																																																																																					
87																																																																																																																																																																																																																																																																																																																																																																																																																					
88																																																																																																																																																																																																																																																																																																																																																																																																																					
89																																																																																																																																																																																																																																																																																																																																																																																																																					
90																																																																																																																																																																																																																																																																																																																																																																																																																					
91																																																																																																																																																																																																																																																																																																																																																																																																																					
92																																																																																																																																																																																																																																																																																																																																																																																																																					
93																																																																																																																																																																																																																																																																																																																																																																																																																					
94																																																																																																																																																																																																																																																																																																																																																																																																																					
95																																																																																																																																																																																																																																																																																																																																																																																																																					
96																																																																																																																																																																																																																																																																																																																																																																																																																					
97																																																																																																																																																																																																																																																																																																																																																																																																																					
98																																																																																																																																																																																																																																																																																																																																																																																																																					
99																																																																																																																																																																																																																																																																																																																																																																																																																					
100																																																																																																																																																																																																																																																																																																																																																																																																																					
<p>Designed: HN Drawn: ZR</p>	<p>Checked: HN Approved: HN</p>	<p>SCALE: AS SHOWN</p>	<p>PAPER: A1 Drawing No.: 220117C-1000</p>	<p>ISSUED FOR REVIEW</p>	<p>Issue: 2 Sheet No.: 2 OF 9</p>																																																																																																																																																																																																																																																																																																																																																																																																																



LIP-S						
Number		Chainage	Easting	Northing	Radii/A Value	Bearing
LF 1	Start	0.000	335466.865	6255995.538	-	302°30'13" Straight
	End	2.555	335464.710	6255996.911	-	
CR1	Start	2.555	335464.710	6255996.911	5.000	302°10'13" Arc
	End	10.836	335463.307	6256004.004		35°06'25" Arc
	IP Co-ords	7.188	335460.298	6255997.723		
LF 2	Start	10.836	335463.307	6256004.004	-	35°06'25" Straight
	End	14.960	335465.793	6256007.541	-	
CR2	Start	14.960	335465.793	6256007.541	15.000	35°06'25" Arc
	End	20.792	335469.979	6256015.548		57°22'58" Arc
	IP Co-ords	17.913	335467.492	6256009.957		
LF 3	Start	20.792	335469.979	6256015.548	-	57°22'58" Straight
	End	48.191	335493.057	6256026.317	-	
CR3	Start	48.191	335493.057	6256026.317	50.000	57°22'58" Arc
	End	50.880	335494.711	6256027.422		50°08'10" Arc
	IP Co-ords	49.186	335493.095	6256026.853		
LF 4	Start	50.880	335494.711	6256027.422	-	55°06'10" Straight
	End	61.117	335503.681	6256033.679	-	
CR4	Start	61.117	335503.681	6256033.679	30.000	50°08'10" Arc
	End	89.919	335511.860	6256037.245		100°06'42" Arc
	IP Co-ords	76.737	335506.492	6256042.616		
LF 5	Start	89.919	335511.860	6256037.245	-	100°06'42" Straight
	End	92.059	335533.169	6256036.509	-	
CR5	Start	92.059	335533.169	6256036.509	50.000	100°06'42" Arc
	End	121.603	335534.009	6256042.810		109°05'21" Arc
	IP Co-ords	92.505	335533.587	6256036.356		
LF 6	Start	121.603	335534.009	6256042.810	-	109°05'21" Straight
	End	108.382	335545.592	6256031.163	-	
CR6	Start	108.382	335545.592	6256031.163	30.000	109°05'21" Arc
	End	150.603	335556.662	6256030.360		113°19'49" Arc
	IP Co-ords	109.493	335544.642	6256030.800		
LF 7	Start	150.603	335556.662	6256030.360	-	113°19'49" Straight
	End	114.341	335554.094	6256028.880	-	
CR7	Start	114.341	335554.094	6256028.880	20.000	113°19'49" Arc
	End	132.591	335571.696	6256029.744		61°02'53" Arc
	IP Co-ords	121.196	335563.107	6256041.992		
LF 8	Start	132.591	335571.696	6256029.744	-	61°02'53" Straight
	End	137.151	335575.686	6256031.952	-	
CR8	Start	137.151	335575.686	6256031.952	30.000	44°07'08" Arc
	End	146.015	335582.701	6256037.318		44°07'08" Arc
	IP Co-ords	146.015	335582.701	6256037.318		
LF 9	Start	146.015	335582.701	6256037.318	-	44°07'08" Straight
	End	154.852	335588.853	6256043.662	-	
CR9	Start	154.852	335588.853	6256043.662	50.000	44°07'08" Arc
	End	157.139	335590.407	6256045.340		44°07'08" Arc
	IP Co-ords	155.996	335589.649	6256044.483		
LF 10	Start	157.139	335590.407	6256045.340	-	41°29'52" Straight
	End	164.064	335596.995	6256050.526	-	
CR10	Start	164.064	335596.995	6256050.526	4.500	41°29'52" Arc
	End	169.442	335599.021	6256051.767		110°13'23" Arc
	IP Co-ords	167.141	335597.034	6256052.831		
LF 11	Start	169.442	335599.021	6256051.767	-	110°13'23" Straight
	End	169.718	335600.161	6256051.679	-	

LIP-N						
Number		Chainage	Easting	Northing	Radii/A Value	Bearing
LF 12	Start	0.000	335457.458	6256005.536	-	42°21'57" Straight
	End	11.234	335465.028	6256013.836	-	
CR11	Start	11.234	335465.028	6256013.836	10.000	42°21'57" Arc
	End	17.578	335466.965	6256016.448		56°49'32" Arc
	IP Co-ords	12.302	335465.883	6256011.774		
LF 13	Start	17.578	335466.965	6256016.448	-	56°49'32" Straight
	End	56.578	335502.786	6256038.899	-	
CR12	Start	56.578	335502.786	6256038.899	10.000	56°49'32" Arc
	End	57.613	335503.622	6256039.509		50°53'34" Arc
	IP Co-ords	57.613	335503.220	6256039.102		
LF 14	Start	57.613	335503.622	6256039.509	-	50°53'34" Straight
	End	60.113	335505.561	6256041.086	-	
CR13	Start	60.113	335505.561	6256041.086	10.000	50°53'34" Arc
	End	63.911	335508.888	6256042.872		72°39'30" Arc
	IP Co-ords	62.035	335507.053	6256042.298		
LF 15	Start	63.911	335508.888	6256042.872	-	72°39'30" Straight
	End	66.240	335511.111	6256043.566	-	
CR14	Start	66.240	335511.111	6256043.566	32.000	72°39'30" Arc
	End	87.053	335515.554	6256043.105		109°55'25" Arc
	IP Co-ords	77.029	335512.410	6256044.782		
LF 16	Start	87.053	335515.554	6256043.105	-	109°55'25" Straight
	End	88.356	335517.779	6256042.661	-	
CR15	Start	88.356	335517.779	6256042.661	5.000	109°55'25" Arc
	End	90.109	335519.290	6256041.780		130°00'35" Arc
	IP Co-ords	89.242	335513.612	6256042.359		
LF 17	Start	90.109	335519.290	6256041.780	-	130°00'35" Straight
	End	90.812	335514.828	6256041.138	-	
CR16	Start	90.812	335514.828	6256041.138	10.000	130°00'35" Arc
	End	94.642	335518.757	6256039.490		108°03'51" Arc
	IP Co-ords	92.751	335516.313	6256040.091		
LF 18	Start	94.642	335518.757	6256039.490	-	108°03'51" Straight
	End	107.721	335515.591	6256035.434	-	
CR17	Start	107.721	335515.591	6256035.434	20.000	108°03'51" Arc
	End	108.971	335517.766	6256035.110		111°38'41" Arc
	IP Co-ords	108.344	335516.766	6256035.241		
LF 19	Start	108.971	335517.766	6256035.110	-	111°38'41" Straight
	End	112.056	335514.633	6256033.872	-	
CR18	Start	112.056	335514.633	6256033.872	30.000	41°02'53" Arc
	End	135.269	335516.117	6256038.284		45°08'41" Arc
	IP Co-ords	125.919	335506.822	6256039.096		
LF 20	Start	135.269	335516.117	6256038.284	-	45°08'41" Straight
	End	159.263	335519.126	6256055.208	-	
CR19	Start	159.263	335519.126	6256055.208	7.000	45°08'41" Arc
	End	162.153	335514.702	6256051.606		21°29'31" Arc
	IP Co-ords	160.729	335516.165	6256056.242		
LF 21	Start	162.153	335514.702	6256051.606	-	21°29'31" Straight
	End	163.339	335515.124	6256058.883	-	
CR20	Start	163.339	335515.124	6256058.883	5.000	97°05'27" Arc
	End	170.036	335601.443	6256061.932		
	IP Co-ords	167.318	335603.758	6256061.520		
LF 22	Start	170.036	335601.443	6256061.932	-	97°05'27" Straight
	End	173.377	335603.758	6256061.520	-	

Island						
Number		Chainage	Easting	Northing	Radii/A Value	Bearing
LF 23	Start	0.000	335458.540	6255993.707	-	326°25'24" Straight
	End	4.268	335456.179	6255997.263	-	
CR21	Start	4.268	335456.179	6255997.263	0.600	326°25'24" Arc
	End	4.796	335455.762	6255997.528		215°56'43" Arc
	IP Co-ords	4.550	335456.023	6255997.499		
LF 24	Start	4.796	335455.762	6255997.528	-	215°56'43" Straight
	End	8.214	335453.363	6255997.882	-	
CR22	Start	8.214	335453.363	6255997.882	0.500	215°56'43" Arc
	End	16.584	335457.862	6255996.911		124°08'02" Arc
	IP Co-ords	10.205	335450.362	6255998.088		
LF 25	Start	16.584	335457.862	6255996.911	-	124°08'02" Straight
	End	19.122	335458.540	6255993.707	-	
CR23	Start	19.122	335458.540	6255993.707	0.500	124°08'02" Arc
	End	19.122	335458.540	6255993.707		326°25'24" Arc
	IP Co-ords	19.122	335458.540	6255993.707		

01.11.2022	2	HN	ISSUED FOR TENDER	HN
01.11.2022	1	HN	ISSUED FOR REVIEW	HN
Date	Nr	By	Amendments	Checked



CLIENT:
NORTH SYDNEY COUNCIL

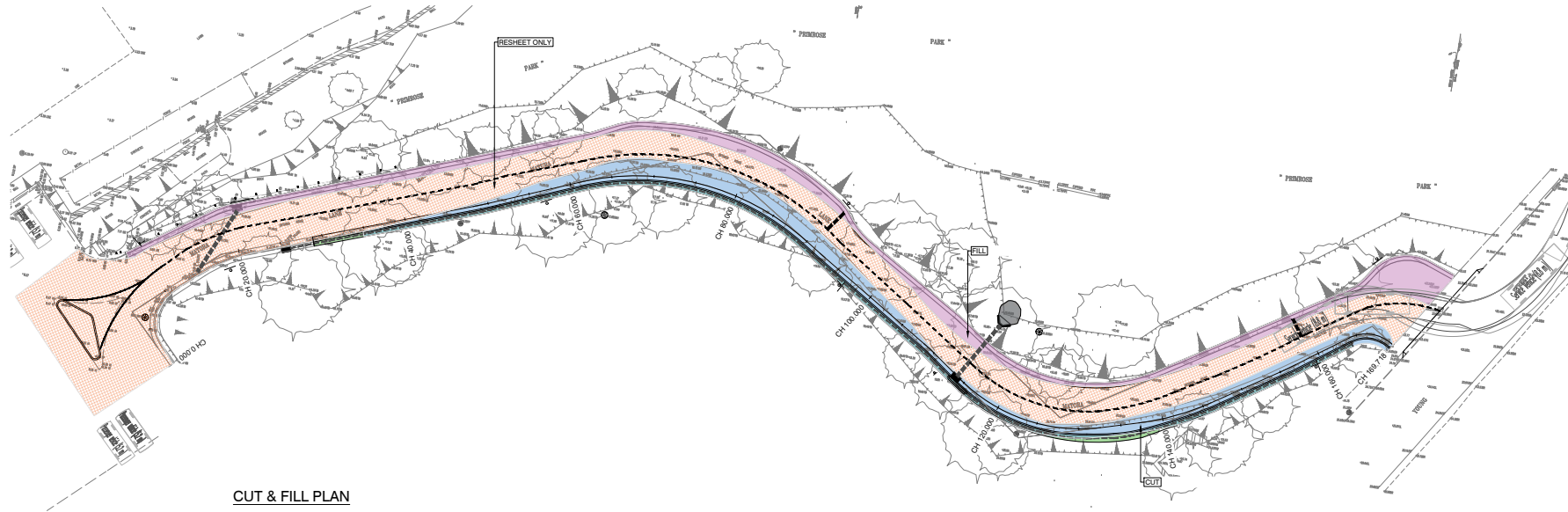
URBANSPEC ENGINEERING PTY LTD
ABN 96 626 940 083
M: 0411 352 614
Email: hassan@urbanspec.com.au
www.urbanspec.com.au

MATORA LANE LANEWAY UPGRADE
CREMORNE POINT
LANEWAY UPGRADE
SETOUT

BEFORE YOU DIG
www.beforeyoudig.com.au

ISSUED FOR REVIEW

Drawn: 2R
Checked: HN
SCALE: AS SHOWN
PAPER: A1
Drawing No: 22011001-01
Sheet No: 2
3 OF 9



CUT & FILL PLAN

CUT: 261 m² (WEATHERED SANDSTONE : 80m³, TOP SOIL 160m³); REFER ASPHALTIC CONCRETE DETAIL 2 DRG# C300 FOR PAVEMENT DETAIL
 FILL: 217 m³ (DGS40: 35m³) : REFER ASPHALTIC CONCRETE DETAIL 1 DRG# C300 FOR PAVEMENT DETAIL
 RESHEETING AREA: 861 m² (50mm AC14)
 TOTAL ASPHALT AREA: 1300 M² : AVERAGE 50mm AC14

01				
02				
03				
04	01.11.2022	HN	ISSUED FOR TENDER	HN
05	04.10.2022	1	ISSUED FOR REVIEW	HN
Date	Nr	By	Amendments	Checked



CLIENT:
NORTH SYDNEY COUNCIL



URBANSPEC ENGINEERING PTY LTD
 ABN 96 626 940 983
 M: 0411 352 614
 Email: hassan@urbanspec.com.au
 www.urbanspec.com.au

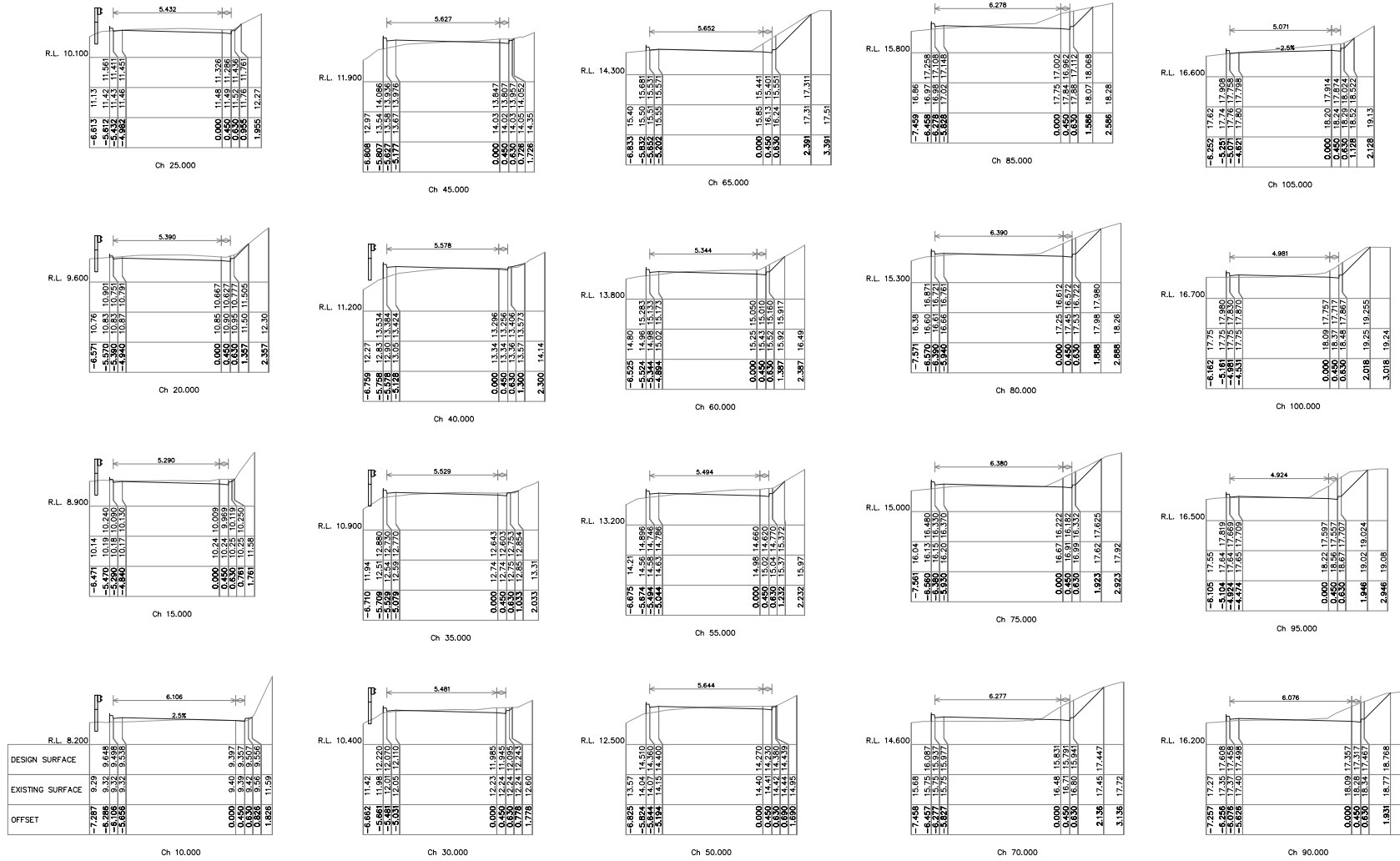
MATORA LANE LANEWAY UPGRADE
 CREMORNE POINT
 LANEWAY UPGRADE
 CUT AND FILL PLAN

Designed: HN
 Drawn: ZR
 Checked: HN
 Approved: HN
 SCALE:
 AS SHOWN

PAPER: A1
 Drawing No.: 221115C102
 Issue No.: 4 OF 9



ISSUED FOR REVIEW



01/11/2022	2	HN	ISSUED FOR TENDER	HN
04/10/2022	1	HN	ISSUED FOR REVIEW	HN
Date	Nr	By	Amendments	Checked



CLIENT:
NORTH SYDNEY COUNCIL



URBANSPEC ENGINEERING PTY LTD
ABN 96 625 940 983
M: 0411 352 614
Email: hassan@urbanspec.com.au
www.urbanspec.com.au

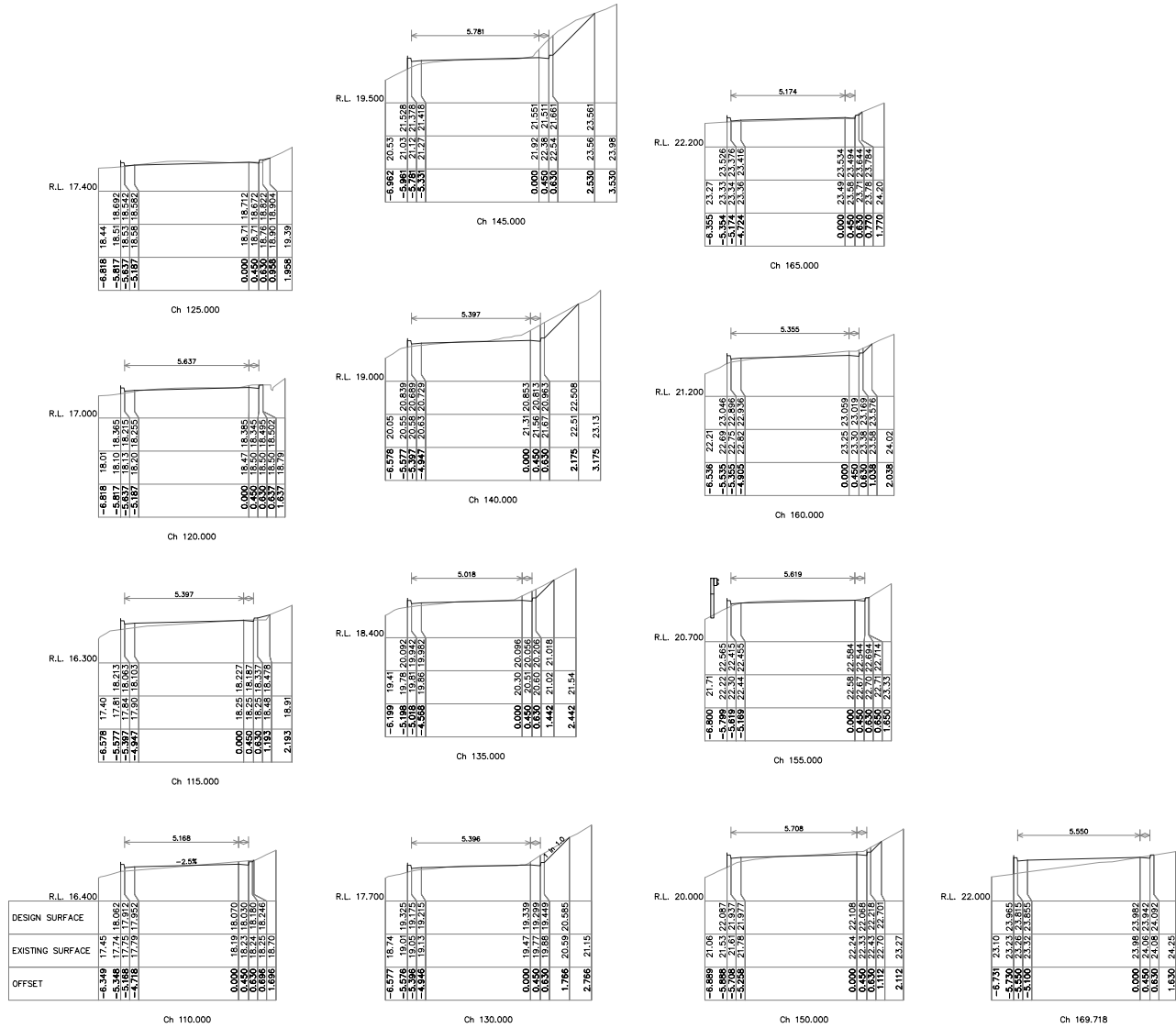
MATORA LANE LANEWAY UPGRADE
CREMORNE POINT
LANEWAY UPGRADE
CROSS SECTIONS - SHEET 1

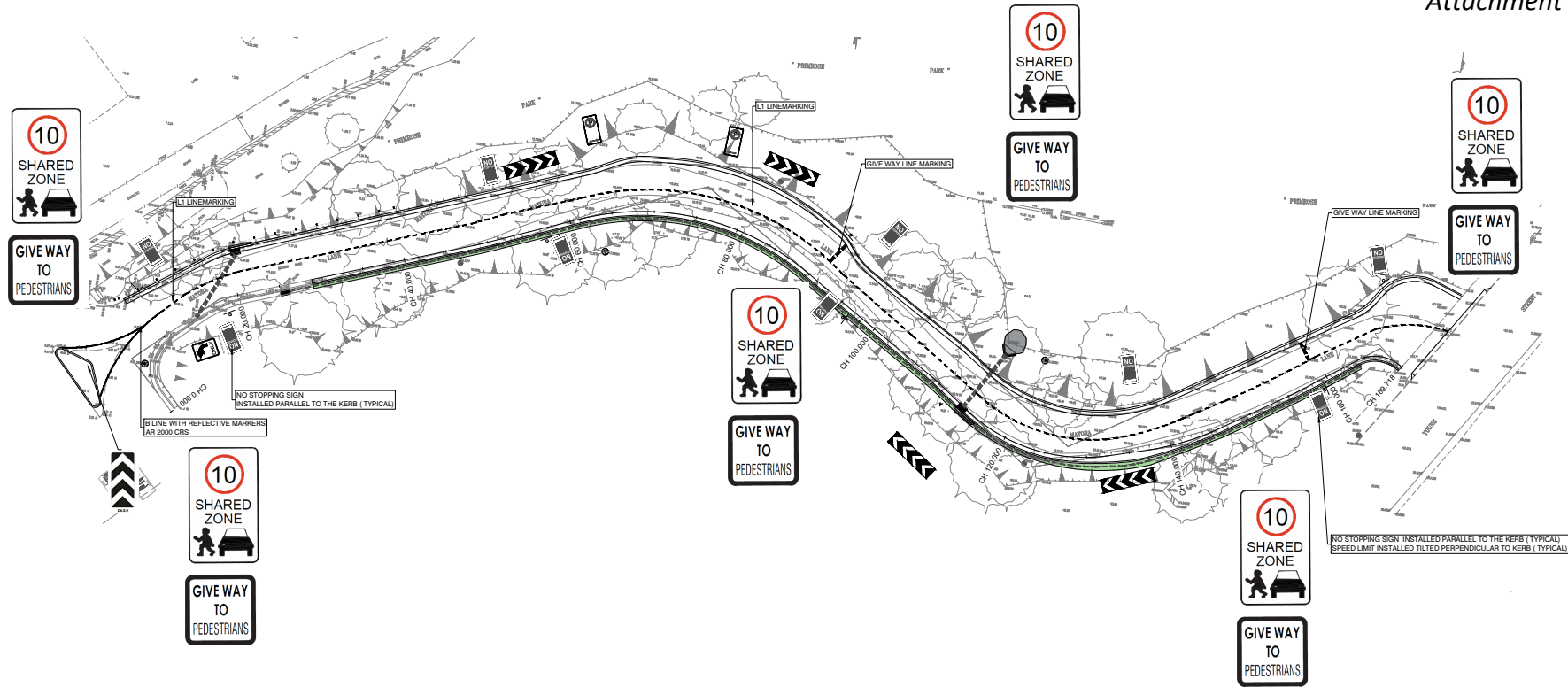
Design: HN
Checked: HN
Scale: AS SHOWN

PAPER: A1
Drawing No: 220115C103
Sheet No: 5 OF 9



ISSUED FOR REVIEW





01				
02				
03				
04	01.11.2022	HN	ISSUED FOR TENDER	HN
05	04.10.2022	HN	ISSUED FOR REVIEW	HN
Date	Nr	By	Amendments	Checked

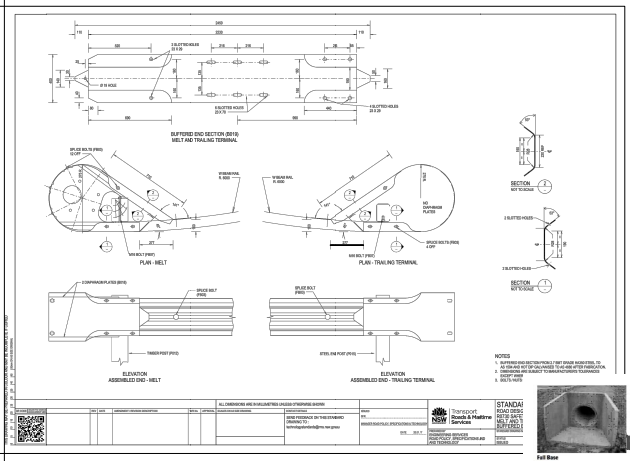
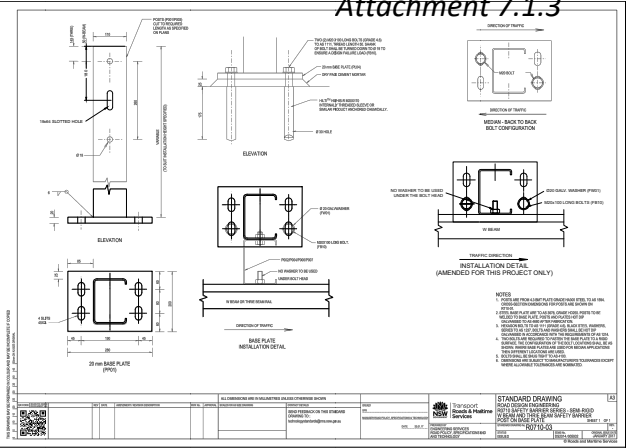
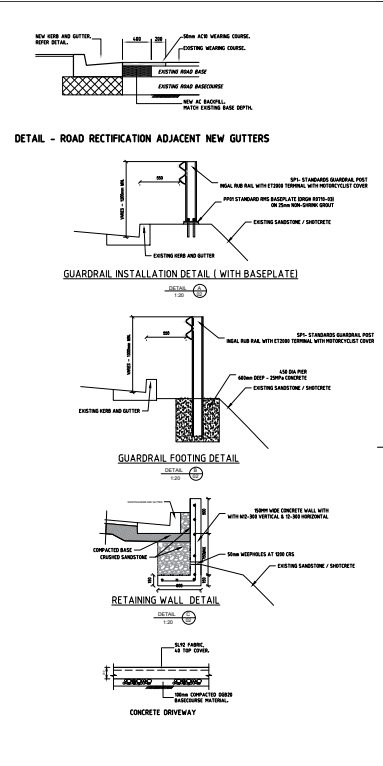
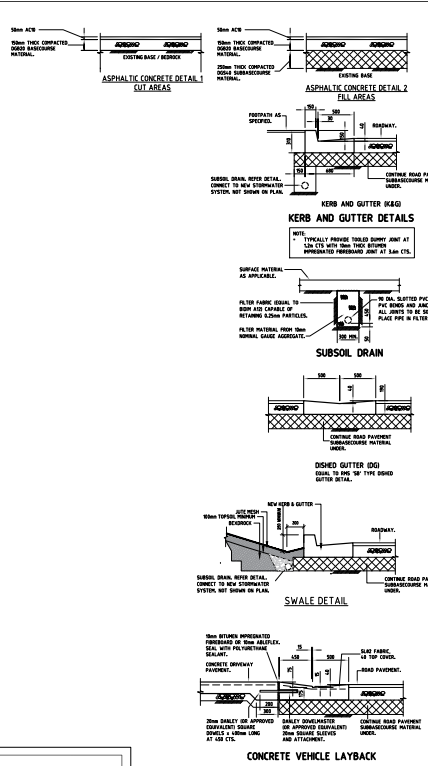
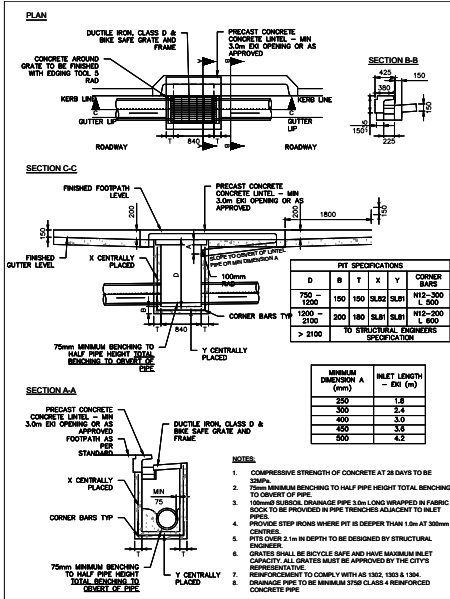


CLIENT:
NORTH SYDNEY COUNCIL

URBANSPEC ENGINEERING PTY LTD
 ABN 96 626 940 983
 M: 0411 352 614
 Email: hassan@urbanspec.com.au
 www.urbanspec.com.au

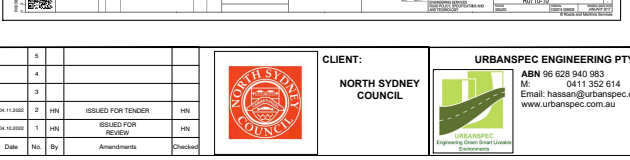
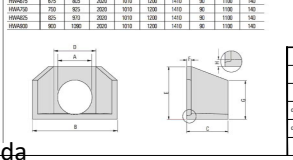
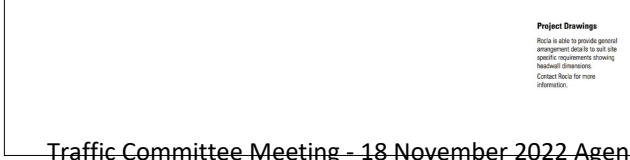
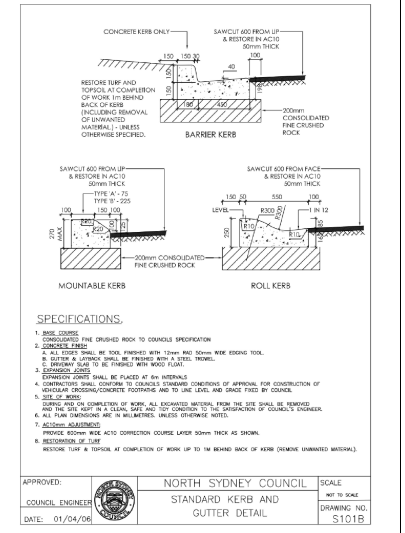
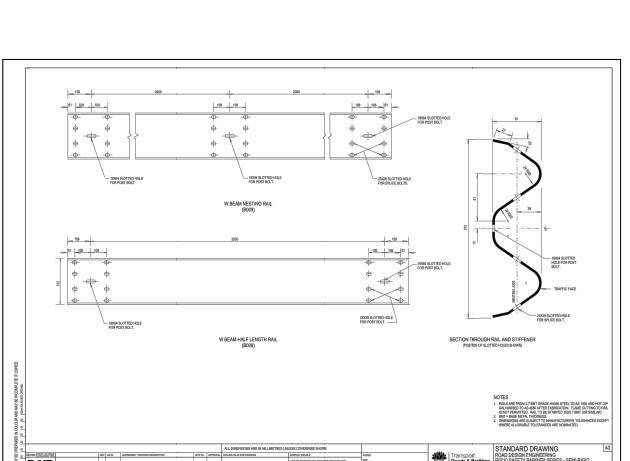
MATORNA LANE LANEWAY UPGRADE
 CREMORNE POINT
 LANEWAY UPGRADE
 LINEMARKING AND SIGNAGE

		ISSUED FOR REVIEW	Issue
Designed: HN	Checked: HN	SCALE: AS SHOWN	2
Drawn: ZR	Approved: HN	PAPER: A1	8 OF 9



Small Pipe Headwalls - Full Base

Product Code	Plan Size	A	B	C	D	E	F	G	H
HWAL25	255	375	1575	360	780	108	80	200	80
HWAL30	330	450	1875	420	900	120	90	220	90
HWAL35	375	525	2175	480	1020	132	100	240	100
HWAL40	420	600	2475	540	1140	144	110	260	110
HWAL45	465	675	2775	600	1260	156	120	280	120
HWAL50	510	750	3075	660	1380	168	130	300	130
HWAL55	555	825	3375	720	1500	180	140	320	140
HWAL60	600	900	3675	780	1620	192	150	340	150
HWAL65	645	975	3975	840	1740	204	160	360	160
HWAL70	690	1050	4275	900	1860	216	170	380	170



APPROVED: NORTH SYDNEY COUNCIL

COUNCIL ENGINEER: [Signature]

DATE: 01/04/06

SCALE: NOT TO SCALE

STANDARD DRAWING: NORTH SYDNEY COUNCIL AND GUTTER DETAIL

DRAWING NO.: ST101B

ISSUED FOR REVIEW: 2

DESIGNED BY: HN

CHECKED BY: HN

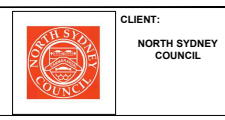
SCALE: AS SHOWN

PAPER: A1

DRAWING NO.: 20115-001

SHEET NO.: 9 OF 9

Date	No.	By	Amendments	Checked
04-11-2022	2	HN	ISSUED FOR TENDER	HN
04-10-2022	1	HN	ISSUED FOR REVIEW	HN



CLIENT: NORTH SYDNEY COUNCIL

URBANSPEC ENGINEERING PTY LTD

ABN 96 628 343 983

M: 0411 352 614

Email: hassan@urbanspec.com.au

www.urbanspec.com.au

MATORA LANE LANEWAY UPGRADE

CREMORNE POINT

LANEWAY UPGRADE

DETAILS

BEFORE YOU DIG

www.youdig.com.au