CARRINGTON ROAD, HORNSBY
PROPOSED DRAINAGE UPGRADE

LEGEND

- EXISTING KERB & GUTTER.
- EXISTING FENCE.
- EXISTING CONCRETE PATH EDGE.
- EXISTING TOP/BOTTOM OF BANK
- EXISTING PLANTER BEDS.
- EXIST 375mmø RCP — EXISTING STORM WATER PIPE.
- ELP — EXISTING POWER POLE.
- EXISTING TREE.
- STN 1 RL 100.000 — SURVEY TRAVERSE STATION.
- DH&W — SURVEY REFERENCE MARKS - DRILL HOLE.
- EXISTING TELSTRA PIT.
- SMH — EXISTING SEWER MANHOLE.
- HYD — EXISTING FIRE HYDRANT.
- SV — EXISTING WATER STOP VALVE.
- S — EXISTING SEWER MAIN.
- O — EXISTING U/G OPTIC FIBRE CABLES.
- W — EXISTING U/G WATER MAIN.
- T — EXISTING U/G TELSTRA CABLES
- EXISTING U/G GAS CABLES
- NBN — EXISTING U/G NBN CABLES
- EXISTING O/H POWER CABLES.
- PROPOSED STORMWATER INLET PIT.
- PROPOSED KERB & GUTTER.
- 604 GIS — STORMWATER PIT LABEL (LINE No./PIT No.).

ACCESS & SAFETY NOTES:

1. THE CONSTRUCTOR SHALL COMPLY WITH ALL STATUTORY & INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
2. THE CONSTRUCTOR SHALL PROVIDE TRAFFIC MANAGEMENT PLANS FOR THE PROPOSED WORKS COMPLETED BY A SUITABLY QUALIFIED PERSON & APPROVED BY COUNCIL/REGULATORY AUTHORITY. WORK IS NOT TO COMMENCE ON SITE PRIOR TO APPROVAL OF TRAFFIC MANAGEMENT SCHEME.
3. THE CONSTRUCTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO BUILDINGS/RESIDENCES ADJACENT TO THE WORKS IS NOT DISRUPTED.
4. WHERE NECESSARY THE CONSTRUCTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
5. THE CONSTRUCTOR SHALL ENSURE PUBLIC ACCESS EXTERNAL TO THE SITE IS IN ACCORDANCE WITH COUNCIL REQUIREMENTS.

DRAWING SCHEDULE

SHEET No.	TITLE	ISSUE
1	DRAWING SCHEDULE, GENERAL NOTES, LOCALITY PLAN & LEGEND.	1
2	GENERAL WORKS & SERVICES PLAN.	1
3	CATCHMENT PLAN.	1
4	HYDROLOGY & HYDRAULIC CALCULATIONS.	1

GENERAL NOTES:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS & SPECIFICATIONS OF HORNSBY SHIRE COUNCIL.
2. LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCH MARKS & NOT FROM SURVEY PEGS.
3. PROVIDE TRAFFIC MANAGEMENT, LINE MARKING & SIGNAGE IN ACCORDANCE WITH THE TFNSW "TRAFFIC CONTROL AT WORK SITES" TECHNICAL MANUAL & AS1742.3 REQUIREMENTS.
4. SERVICES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM INFORMATION SUPPLIED FROM THE RELEVANT AUTHORITIES VIA A "BEFORE YOU DIG AUSTRALIA" ENQUIRY. THE LOCATION OF SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES & FIELD INVESTIGATIONS & ARE TO BE VERIFIED PRIOR TO CONSTRUCTION.
5. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE LANDCOM PUBLICATION:- "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION" Vol. 1, 4th EDITION.
6. ALL DISTURBED AREAS OF THE SITE ARE TO BE REINSTATED WITH EXISTING OR MATCHING MATERIALS UNLESS NOTED OTHERWISE AT THE COMPLETION OF THE WORKS.
7. ARRANGE SET-OUT BY HORNSBY SHIRE COUNCIL DESIGN & CONSTRUCTION BRANCH SURVEYOR. NOTIFY ENGINEERING SURVEYOR A MINIMUM OF 24 HOURS IN ADVANCE.
8. WHERE PAVEMENT RESURFACING IS UNDERTAKEN ENSURE ALL BLUE HYDRANT MARKER RRPM'S ARE REINSTATED AT THE COMPLETION OF WORKS.
9. WHERE WORKS ARE ADJACENT TO EXISTING STRUCTURES UNDERTAKE A DILAPIDATION SURVEY OF EXISTING ADJACENT STRUCTURES BEFORE COMMENCEMENT OF ANY WORKS.
10. UTILITY SERVICES INVESTIGATION HAS BEEN DONE BY UTILITY MAPPING (AUST) PTY LTD. DATE OF LOCATING SERVICES : 19/11/2024. TRIM DOCUMENT No.D09030488.

ABORIGINAL ARTIFACT NOTES:

1. AN AHIMS WEB SEARCH HAS BEEN UNDERTAKEN FOR THIS PROJECT (REF:CARRINGTON ROAD). ALTHOUGH NO ARTIFACTS HAVE BEEN IDENTIFIED IN THIS SEARCH SHOULD ANY POTENTIAL ARTIFACTS BE UNCOVERED THEY ARE NOT TO BE REMOVED FROM THE SITE & SHALL BE IMMEDIATELY REPORTED TO COUNCIL'S PROJECT MANAGER. TRIM DOCUMENT # D09030362.

LOCALITY PLAN
NOT TO SCALE

ASSET MANAGEMENT & MAINTENANCE BRANCH
Senior Asset Engineer
Name: A. BOYD Telephone: 9847 6672
Accepted as complying with the general intent of the design brief
Signed: Date:

Hornsby Shire Council Design & Construction Branch
TELEPHONE: (02) 9847 6666
EMAIL: hsc@hornsby.nsw.gov.au

Authorised for release - Manager Design & Construction
Name: M. DRAKE Signed: Date: 3/3/25

Designer	B. RAJAKARUNA
Drawn	B. RAJAKARUNA
Surveyor	J. HART
Project Identifier\:\CAD File Name	H\\PROJECTS\Carrington Road_DR_101737\Design\ACAD\Carrington Road.dwg
TRIM Document Number	D09062481

Design Checked/Design Team Leader Signed:
Drawing Checked Signed:
NA Field Book | NA Level Book | AHD Datum

Issue	Description	Name	Initial	Date
1	ISSUED FOR CONSTRUCTION	D TAMANG	DT	3/3/25

Design not to be amended without authorisation by Manager Design & Construction

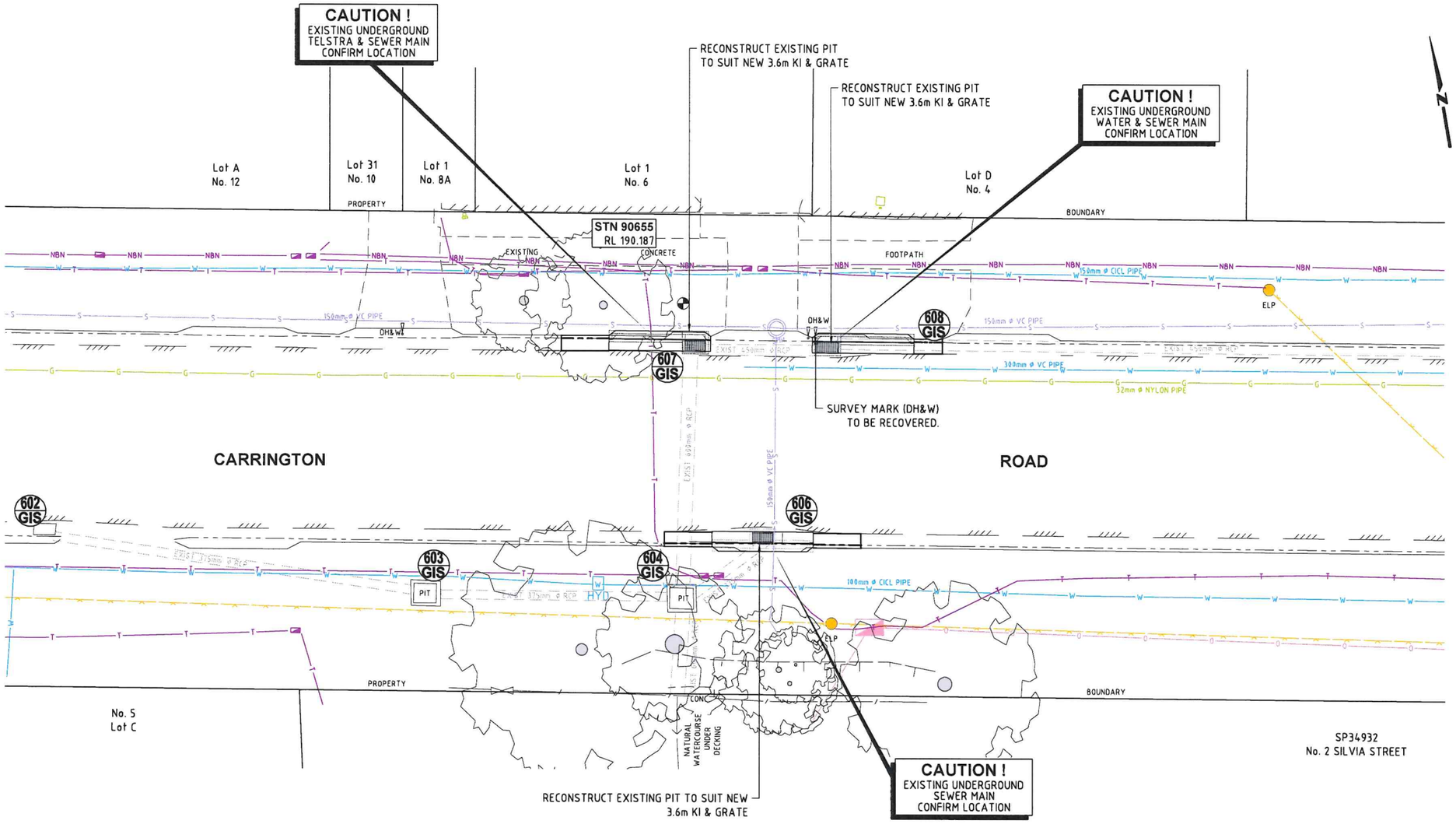
Bar Scales: NOT TO SCALE
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

CARRINGTON ROAD, HORNSBY
PROPOSED DRAINAGE UPGRADE AT No.6

DRAWING SCHEDULE, GENERAL NOTES, LOCALITY PLAN & LEGEND

Project Number: 101737
Sheet: 1 of 4
Issue: 1
HSC Drawing Number: 788.4



PLAN
SCALE 1:100

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM KNOWN POSITIONS OF VALVES, MANHOLES ETC. AND/OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.

SURVEY MARKS:

NOTE: SURVEY MARKS MUST NOT TO BE DISTURBED. IF MARKS HAVE TO BE REMOVED APPLICATION MUST BE MADE THROUGH A REGISTERED SURVEYOR TO SUBMIT A "PRESERVATION OF SURVEY INFRASTRUCTURE" FORM TO SPATIAL SERVICES NSW.

REFER TO SHEET No.4 FOR HYDROLOGIC HYDRAULIC ANALYSIS DATA TABLES.

Hornsby Shire Council
Design & Construction Branch
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Authorised for release - Manager Design & Construction
Name M. DRAKE Signed Date 3/3/25

Designer	B. RAJAKARUNA
Design Checked-Design Team Leader	Signed
Drawn	B. RAJAKARUNA
Drawing Checked	Signed
Surveyor	J. HART
NA Field Book / NA Level Book / AHD Datum	
Project Identifier\-\-\CAD File Name	H\\PROJECTS\Carrington Road_DR_101737\Design\ACAD\Carrington Road.dwg
TRIM Document Number	D09062481

Issue	Description	Name	Initial	Date
1	ISSUED FOR CONSTRUCTION	D TAMANG	DT	3/3/25

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Bar Scales
0 1 2 3 4 5m
SCALE 1:100 @ A1
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HORNSBY SHIRE COUNCIL
PO BOX 37, HORNSBY NSW 1630

CARRINGTON ROAD, HORNSBY
PROPOSED DRAINAGE UPGRADE AT No.6

GENERAL WORKS & SERVICES PLAN.

Project Number	101737
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CATCHMENT PLAN

SCALE 1:500

Hornsby Shire Council
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EMAIL: hsc@hornsby.nsw.gov.au

Authorised for release - Manager Design & Construction
Name M. DRAKE Signed [signature] Date 3/3/25

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Design Checked/Design Team Leader	Signed [signature]
Drawn	B. RAJAKARUNA
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Issue	Description	Name	Initial	Date
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Design not to be amended without authorisation by Manager Design & Construction

Bar Scales: 0 5 10 15 20 25m
SCALE 1:500 @ A1

DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

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CARRINGTON ROAD, HORNSBY
PROPOSED DRAINAGE UPGRADE AT No.6

CATCHMENT PLAN.

Project Number	101737
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EXISTING

5% AEP (ANNUAL EXCEEDANCE PROBABILITY) HYDROLOGIC & HYDRAULIC DATA & RESULTS

CATCHMENT AND RUNOFF						INLET FLOWS						PIPE									PIT						
Pit Name	Sub-Catchment Area (ha)	Land Use Type (IL-CL)	Land Use (%)	Total Entry Time, tc (minutes)	Peak Sub-Catchment Flowrate (m3/s)	Overflows Approaching Pit: Origin of Approach Flows	Overflows Approaching Pit: Peak Flowrate(s) (m3/s)	Flow Width (m)	Depth x Velocity (m2/s)	Peak Approach Flow (m3/s)	Bypass Flow(s) (m3/s)	Peak Flow in Pipe (m3/s)	Pipe Length (m)	Pipe Slope (%)	Pipe Diameter (mm)	U/S Pipe Invert Level (m)	D/S Pipe Invert Level (m)	U/S HGL in Pipe (m)	D/S HGL in Pipe (m)	Pipe Flow Velocity (m/s)	Pressure Change Coeff. Ku	Water Surface Elevation (m)	Ground Surface Level (m)	Pit Free-board (m)	Pit Name	Pit Type & Size
Pit 606	0.03	EIA	90	5	0.016	Pit602	0	-	-	0.377	0.146	0.182	4.41	1.38	375	188.919	188.858	189.23	189.134	2.08	4	189.73	189.8	0.07	Pit 606	Existing GP 1.8m KI
		RIA	5	5		Pit608	0.088	24.1	0.01																	
		PA	5	5		Pit 607	0.289	23.7	0.04																	
Pit 604		EIA	0	-	-	-	-	-	-	-	-	0.778	4.24	7	600	188.048	187.751	188.588	188.043	5.69	1.8	188.8	190	1.2	Pit604	Existing Junction Pit
		RIA	0																							
		PA	0																							
Pit 602	0.04	EIA	90	5	0.021	-	-	0.7	0.03	0.021	0	0.021	15.2	1.36	375	189.395	189.189	189.5	189.284	0.95	4	189.5	191.1	1.6	Pit602	Existing GP 3.0m KI
		RIA	5	5																						
		PA	5	5																						
Pit 603		EIA	0	-	-	-	-	-	-	-	-	0.02	9.5	1.97	375	189.189	189.002	189.284	189.069	1.51	0.5	189.28	190.3	1.02	Pit603	Existing Junction Pit
		RIA	0																							
		PA	0																							
Pit 609	0.8	EIA	60	5	0.412	-	-	2.5	0.12	0.412	0.001	0.413	36.11	1.52	450	189.536	188.988	190.171	189.403	2.69	0.5	190.36	190.79	0.43	Pit609	Existing GP 2.4m KI
		RIA	10	5																						
		PA	30	5																						
Pit 608	0.4	EIA	60	5	0.206	Pit609		24.1	0.01	0.206	0.08	0.511	5.7	2	450	188.913	188.799	189.267	189.056	2.73	1	189.32	189.85	0.53	Pit608	Existing SP 1.8m KI
		RIA	10	5																						
		PA	30	5																						
Pit 607	0.88	EIA	60	5	0.453	-		23.7	0.04	0.453	0.289	0.619	9.5	5.05	525	188.59	188.11	188.965	188.797	1.87	1.5	189.01	189.87	0.86	Pit 607	Existing SP 1.8m KI
		RIA	10	5																						
		PA	30	5																						

PROPOSED

5% AEP (ANNUAL EXCEEDANCE PROBABILITY) HYDROLOGIC & HYDRAULIC DATA & RESULTS

CATCHMENT AND RUNOFF						INLET FLOWS						PIPE									PIT						
Pit Name	Sub-Catchment Area (ha)	Land Use Type (IL-CL)	Land Use (%)	Total Entry Time, tc (minutes)	Peak Sub-Catchment Flowrate (m3/s)	Overflows Approaching Pit: Origin of Approach Flows	Overflows Approaching Pit: Peak Flowrate(s) (m3/s)	Flow Width (m)	Depth x Velocity (m2/s)	Peak Approach Flow (m3/s)	Bypass Flow(s) (m3/s)	Peak Flow in Pipe (m3/s)	Pipe Length (m)	Pipe Slope (%)	Pipe Diameter (mm)	U/S Pipe Invert Level (m)	D/S Pipe Invert Level (m)	U/S HGL in Pipe (m)	D/S HGL in Pipe (m)	Pipe Flow Velocity (m/s)	Pressure Change Coeff. Ku	Water Surface Elevation (m)	Ground Surface Level (m)	Pit Free-board (m)	Pit Name	Pit Type & Size
Pit 606	0.03	EIA	90	5	0.016	Pit602	**0.153**	**10.68**	**0.02**	**0.17**	0	**0.098**	4.41	1.38	375	188.919	188.858	**189.174**	**189.165**	**1.22**	4	**189.27**	**189.8**	0.53	Pit 606	**Proposed SP 3.6m KI**
		RIA	5	5		Pit608																				
		PA	5	5		Pit 607																				
Pit 604		EIA	-	-	-	-	-	-	-	-	-	0.959	4.24	7	600	188.048	187.751	**188.621**	**188.078**	**6.09**	1.8	**189.16**	190	**0.84**	Pit604	Existing Junction Pit
		RIA	-	-																						
		PA	-	-																						
Pit 602	0.04	EIA	90	5	0.021	-	-	-	-	0.021	0	0.021	15.2	1.36	375	189.395	189.189	189.5	189.284	0.95	4	189.5	191.1	**1.6**	Pit602	Existing GP 3.0m KI
		RIA	5	5																						
		PA	5	5																						
Pit 603		EIA	-	-	-	-		0.48	0.03	-	-	0.021	9.5	1.97	375	189.189	189.002	189.284	**189.165**	**0.93**	0.5	189.28	190.3	**1.02**	Pit603	Existing Junction Pit
		RIA	-	-																						
		PA	-	-																						
Pit 609	0.8	EIA	60	5	0.412	-		0.4	0.05	0.412	0.001	0.408	36.11	1.52	450	189.536	188.988	**190.521**	**189.799**	**2.57**	0.5	**190.69**	190.79	**0.1**	Pit609	Existing GP 2.4m KI
		RIA	10	5																						
		PA	30	5																						
Pit 608	0.4	EIA	60	5	0.206	Pit609		1.75	0.11	0.206	0.005	0.595	5.7	2	450	188.913	188.799	**189.627**	**189.568**	**1.87**	1	**189.8**	189.85	**0.05**	Pit608	**Proposed GP 3.6m KI**
		RIA	10	5																						
		PA	30	5																						
Pit 607	0.88	EIA	60	5	0.453	-		2.15	0.17	0.453	0.154	0.884	9.5	5.05	525	188.59	188.11	**189.261**	**189.165**	**2.04**	1.5	**189.57**	189.87	**0.3**	Pit 607	**Proposed GP 3.6m KI**
		RIA	10	5																						
		PA	30	5																						

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PROPOSED DRAINAGE UPGRADE AT No.6

HYDROLOGY & HYDRAULIC CALCULATIONS.

Project Number: 101737
Sheet 4 of 4 | Issue 1
HSC Drawing Number: 788.4