H&H Consulting Engineers Pty Ltd *(trading as Henry & Hymas)*

ABN 77 091 243 355
ACN 091 243 355

Address
Suite 2.01
828 Pacific Highway
Gordon
New South Wales 2072

Telephone
+61 2 9417 8400

Facsimile
+61 2 9417 8337

Email
email@hhconsult.com.au

Web
www.henryandhymas.com.au

henry&hymas

18th September 2025

Our Ref: A230804-L1/nw

Rod Pascoe
Greater Sydney Parklands Trust
P.O. BOX 3064
PARRAMATTA NSW 2124

Attention: Rod Pascoe

Dear Rod,

RE: WALLGROVE BUISNESS HUB
125-151 WALLGROVE ROAD, CECIL PARK NSW
COMPLIANCE WITH GUIDELINES FOR CONTROLLED ACTIVITIES ON WATERFRONT LAND

The following letter has been prepared to provide clarification in relation to the proposed works for the aforementioned development and their interaction with the adjacent watercourse. We make reference to the Wallgrove Business Hub State Significant Development (SSD-50972718) and the Submission provided by the NSW Department of Climate Change, Energy, the Environment and Water reference OUT24/14373, specifically item 3 relating to controlled activity on waterfront land.

It is understood further information is requested to confirm the proposed design meets the requirements of the Guidelines for Controlled Activities on Waterfront Land by Department of Planning and Environment (DPE). The proposed civil design for the Wallgrove Business Hub is documented on the civil engineering drawings in Appendix A of this letter.

Following agency advice, the civil engineering drawings prepare by Henry & Hymas have been amended to better show:

- Top of bank (TOB) line as noted in boxall surveyors survey reference 11550-001 dated 16.03.2023.
- 20 metre (m) Vegetated riparian zone (VRZ) applied from the TOB line expressed as inner 50% (0-10m) and outer 50% (10-20m).
- 40m buffer line from TOB line.

From review of civil engineering drawing C101 it is evident:

- The detention storage is located outside of the inner 50% VRZ offset and within the outer 50% VRZ offset.
- A stormwater outlet structure is located within the 20m VRZ offset.
- Proposed retaining structures and fencing is located beyond the 20m VRZ offset (40m riparian corridor).

Quality Management · ISO 9001
Global-Mark.com.au®

We make reference to the Guidelines for Controlled Activities on Waterfront Land Fact Sheet by the DPE. An excerpt of riparian corridor matrix (Table 2) of the Fact Sheet is shown below:

Riparian corridor matrix

The riparian corridor matrix enables applicants to identify certain works and activities that can occur on waterfront land and in riparian corridors. Applicants should note that the matrix relates to controlled activity approvals under the WM Act only. They are still required to comply with other relevant government legislation, such as threatened species, flood planning levels and fisheries guidelines.

Table 2: Riparian corridor matrix

Stream order	VRZ	RC offsetting for non-RC uses	Cycleways and paths	Detention Basins		Stormwater outlet structures and essential services	Stream realignment	Road crossings		
				Only within 50% outer VRZ	Online			Any	Culvert	Bridge
1st	10m	•	•	•	•	•	•	•		
2nd	20m	•	•	•	•	•		•		
3rd	30m	•	•	•		•			•	•
4th +	40m	•	•	•		•			•	•

From review of the riparian corrdior matrix above, it is understood:

- Detention basins can be built in the outer 50% of the VRZ.
- Stormwater outlets structures are permitted with the VRZ.

It is understood from reviewing the civil engineering drawings in Appendix A and the riparian corridor matrix that the development proposal is consistent with the requirements of the Guidelines for Controlled Activities on Waterfront Land.

Furthermore, following agency advice, concordance of the development proposals consistency with the Guidelines for Controlled Activities on Waterfront Land was sought from the Project Ecologist – Ecoplanning. Following a review of the civil engineering drawings Ecoplanning confirmed the ecological consistency of the proposed approach in regards to satisfying the Guidelines for Controlled Activities on Waterfront Land. Refer Appendix B for email dated 12th September 2025 summarising the review.

It should be noted that the further annotations to the Civil Engineering Drawings requested by Ecoplanning have been made and are shown on the Civil Engineering Drawings in Appendix A.

We trust that the information presented above, including the appendices to this letter, is sufficient to resolve this matter. Please feel free to contact the undersigned below should you require any further clarification

Designer:	Nicholas Wetzlar
Qualifications:	B.E. (Civil), M.S.C (IWRM), MIEAust, NER
	NSW Fair Trading Design Practitioner Registration
	NSW Fair Trading Professional Engineer Registration
Employer:	H & H Consulting Engineers Pty Ltd
Address:	Suite 2.01, 828 Pacific Highway, Gordon 2072
Business Tel. No:	(02) 9417 8400

H & H Consulting Engineers Pty Ltd possesses indemnity insurance to the satisfaction of the Client. However, this certificate shall not be construed in any way to relieve any other party of their responsibilities.

Yours faithfully,

NICHOLAS WETZLAR
For, and on behalf of,
H & H Consulting Engineers Pty Ltd

Appendix A: Civil Engineering Drawings by Henry & Hymas

PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW
CIVIL ENGINEERING WORKS

LOCALITY SKETCH
SCALE: N.T.S.

DRAWING SCHEDULE	
230804_DA_C000	COVER SHEET, DRAWING SCHEDULE AND LOCALITY SKETCH
230804_DA_C010	EARLY SUBDIVISION WORKS - NOTES
230804_DA_C100	EARLY SUBDIVISION WORKS - GENERAL ARRANGEMENT PLAN
230804_DA_C101	EARLY SUBDIVISION WORKS - DETAIL PLAN - SHEET 1 OF 4
230804_DA_C102	EARLY SUBDIVISION WORKS - DETAIL PLAN - SHEET 2 OF 4
230804_DA_C103	EARLY SUBDIVISION WORKS - DETAIL PLAN - SHEET 3 OF 4
230804_DA_C104	EARLY SUBDIVISION WORKS - DETAIL PLAN - SHEET 4 OF 4
230804_DA_C108	EARLY SUBDIVISION WORKS - INTERSECTION DETAIL PLAN
230804_DA_C110	EARLY SUBDIVISION WORKS - SITE SECTIONS - SHEET 1 OF 2
230804_DA_C111	EARLY SUBDIVISION WORKS - SITE SECTIONS - SHEET 2 OF 2
230804_DA_C120	EARLY SUBDIVISION WORKS - ROAD CHAINAGES PLAN AND ROAD LONGITUDINAL SECTION
230804_DA_C150	STAGE 1 (INDIVIDUAL LOT FUTURE STAGE) - GRADING AND RETAINING CONCEPT PLAN
230804_DA_C200	EARLY SUBDIVISION WORKS - STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE
230804_DA_C201	EARLY SUBDIVISION WORKS - BIO-RETENTION BASIN SECTIONS AND STORMWATER DETAILS
230804_DA_C202	EARLY SUBDIVISION WORKS - GROSS POLLUTANT TRAP DETAIL
230804_DA_C210	EARLY SUBDIVISION WORKS - STORMWATER LONG SECTION - SHEET 1 OF 2
230804_DA_C211	EARLY SUBDIVISION WORKS - STORMWATER LONG SECTION - SHEET 2 OF 2
230804_DA_C250	STAGE 1 (INDIVIDUAL LOT FUTURE STAGE) - STORMWATER CATCHMENT PLAN
230804_DA_C310	EARLY SUBDIVISION WORKS - RETAINING WALL TYPICAL DETAILS
230804_DA_C510	EARLY SUBDIVISION WORKS - KERB AND LAYBACK STANDARD DETAILS
230804_DA_SE01	EARLY SUBDIVISION WORKS - SEDIMENT AND EROSION CONTROL PLAN
230804_DA_SE02	EARLY SUBDIVISION WORKS - SEDIMENT AND EROSION CONTROL DETAILS
230804_DA_BE01	EARLY SUBDIVISION WORKS - BULK EARTHWORKS CUT AND FILL PLAN
230804_DA_BE02	EARLY SUBDIVISION WORKS - BULK EARTHWORKS SITE SECTIONS

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUED FOR CO-ORDINATION	MB	FZ	17.01.2024

Client
GREATER SYDNEY PARKLANDS TRUST

Architect
nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

Suite 2.01
828 Pacific Highway
Gordon NSW 2072

Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

henry&hymas

Project
PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title
COVER SHEET, DRAWING SCHEDULE AND LOCALITY SKETCH

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	N.T.S.

Drawing number 230804_DA_C000
Revision 04

GENERAL NOTES:

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CITY OF FAIRFIELD COUNCIL'S CIVIL WORKS SPECIFICATION. CONTRACTOR TO OBTAIN AND RETAIN A COPY ON SITE DURING THE COURSE OF THE WORKS.
2. ALL NEW WORKS ARE TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS AND MARRY IN A 'WORKMANLIKE' MANNER.
3. THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL SERVICES WITH EACH RELEVANT AUTHORITY. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED BY THE CONTRACTOR OR THE RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE. SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY OR AS DETERMINED FROM SERVICE DIAGRAMS. H & H CONSULTING ENGINEERS PTY. LTD CANNOT GUARANTEE THE INFORMATION SHOWN NOR ACCEPT ANY RESPONSIBILITY FOR INACCURACIES OR INCOMPLETE DATA.
4. SERVICES & ACCESSES TO THE EXISTING PROPERTIES ARE TO BE MAINTAINED IN WORKING ORDER AT ALL TIMES DURING CONSTRUCTION.
5. ADJUST EXISTING SERVICE COVERS TO SUIT NEW FINISHED LEVELS TO RELEVANT AUTHORITY REQUIREMENTS WHERE NECESSARY.
6. REINSTATE AND STABILISE ALL DISTURBED LANDSCAPED AREAS.
7. MINIMUM GRADE OF SUBSOIL SHALL BE 0.5% (1:200) FALL TO OUTLETS.
8. ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, EROSION AND SEDIMENTATION CONTROL PLAN AND CITY OF FAIRFIELD COUNCIL'S WORKS REQUIREMENTS WHERE APPLICABLE.
9. CONTRACTOR TO CHECK AND CONFIRM SITE DRAINAGE CONNECTIONS ACROSS THE VERGE PRIOR TO COMMENCEMENT OF SITE DRAINAGE WORKS.
10. PROPERTIES AFFECTED BY THE WORKS ARE TO BE NOTIFIED IN ADVANCE WHERE DISRUPTION TO EXISTING ACCESS IS LIKELY.

SITEWORKS NOTES

- DATUM : A.H.D.
- ORIGIN OF LEVELS : REFER TO BENCH OR STATE SURVEY MARKS WHERE SHOWN ON PLAN.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO THE COMMENCEMENT OF WORK.
- ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE DIRECTIONS OF THE SUPERINTENDENT.
- EXISTING SERVICES UNLESS SHOWN ON THE SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS ACHIEVED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION IS TO BE UNDERTAKEN OVER TELSTRA OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- CONTRACTOR TO OBTAIN AUTHORITY APPROVALS WHERE APPLICABLE.
- MAKE SMOOTH TRANSITION TO EXISTING SURFACES AND MAKE GOOD.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT AT THE SITE.
- TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.
- GRADES TO PAVEMENTS TO BE AS IMPLIED BY RL'S ON PLAN . GRADE EVENLY BETWEEN NOMINATED RL'S. AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED UNLESS IN A DESIGNATED SAG POINT.
- ALL COVERS AND GRATES ETC TO EXISTING SERVICE UTILITIES ARE TO BE ADJUSTED TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE.

EXISTING SERVICES & FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA OR AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF HIS PROGRAM FOR THE RELOCATION/ CONSTRUCTION OF TEMPORARY SERVICES.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN SUPPLY TO EXISTING BUILDING REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED, THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL FROM THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
- EXISTING SERVICES, BUILDINGS, EXTERNAL STRUCTURES AND TREES SHOWN ON THESE DRAWINGS ARE EXISTING FEATURES PRIOR TO ANY DEMOLITION WORKS.
- EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE A 'DIAL BEFORE YOU DIG' SEARCH AND TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE SURVEYOR SPECIFIED IN THE TITLE BLOCK.
THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. HENRY AND HYMAS PTY. LTD. DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT HENRY AND HYMAS PTY. LTD. THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM ORIGINAL SURVEY DOCUMENTS.

COMPACTION REQUIREMENTS

1. PREPARATION FOR PAVEMENT:
   CLEAR SITE, STRIP TOP-SOIL, CUT AND FILL AND PREPARATIONS OF SUB-GRADE SHALL BE AS DESCRIBED IN " SUBGRADE PREPARATION".
2. SUB-GRADE SHALL BE COMPACTED TO 98% STANDARD DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT ± 2% IN ACCORDANCE WITH AS 1289 5.1.1., TOP 300MM TO 100% SDD.
3. LOWER BASE COURSE SHALL BE CONSTRUCTED FROM CRUSHED SANDSTONE COMPACTED TO 100% STANDARD DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT ± 2% IN ACCORDANCE WITH AS 1289 5.1.1. OF THICKNESS NOTED ON DRAWINGS.
4. BASE COURSE SHALL BE CONSTRUCTED FROM FINE CRUSHED ROCK COMPACTED TO 100% STANDARD DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT ± 2% IN ACCORDANCE WITH AS 1289 5.1.1 OF THICKNESS NOTED ON DRAWINGS.
5. WEARING SURFACE SHALL BE ASPHALTIC CONCRETE TO STANDARD SPECIFICATION, MINIMUM THICKNESS = 30mm U.N.O.
6. TESTING OF THE SUBGRADE AND PAVEMENT LAYERS SHALL BE CARRIED OUT BY APPROVED N.A.T.A. REGISTERED LABORATORY.

BULK EARTHWORKS/ SUBGRADE PREPARATION - SITEWORKS.

1. REFER TO GEOTECHNICAL INVESTIGATION REPORT (CONSTRUCTION SCIENCES REFERENCE 10791E/P/71a) RELATING TO EXISTING GROUND CONDITIONS, SITE TREATMENT AND SUPERVISION.
2. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM SURVEY AND AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
3. HENRY AND HYMAS PTY LTD CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS, ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN ARISING FROM ANY CAUSE WHATSOEVER.
   CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION.
   FOR COMMENCEMENT OF WORKS ON SITE, SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.
4. ALL SERVICES ARE TO BE LOCATED AND CUT OFF PRIOR TO THE COMMENCEMENT OF EXCAVATION AND FILLING OPERATIONS.
5. ALL TOP SOIL, ORGANIC MATTER AND FILL MATERIAL SHALL BE REMOVED FROM ALL AREAS UNDER BUILDING AND CARPARK LOCATIONS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER. AREAS TO BE FULLY STRIPPED OF EXISTING FILL AND DARK BROWN BLACK UPPER ORGANIC ALLUVIUM, OR OBVIOUS UNSUITABLE MATERIAL.
6. EXCAVATE TO ACHIEVE SUBGRADE LEVELS WHERE NECESSARY.
7. THE EXPOSED SUBGRADE AFTER STRIPPING AND/ OR EXCAVATION IS TO BE PROOF ROLLED IN ACCORDANCE WITH GEOTECHNICAL ENGINEER REQUIREMENTS UNDER THE SUPERVISION OF AN EXPERIENCED GEOTECHNICAL ENGINEER OR AN EXPERIENCED CIVIL ENGINEER. ANY AREAS ON THE SUBGRADE EXHIBITING EXCESSIVE DEFLECTION / MOVEMENT UNDER ROLLER TO BE EXCAVATED TO A MIN. DEPTH OF 0.5m AND REPLACED WITH APPROVED GRANULAR MATERIAL COMPACTED IN 250mm LOOSE LAYERS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
8. ENGINEERED FILL FOR REPLACEMENT OF SOFT OR HEAVING AREAS OR FOR BULK FILLING TO COMPRISE ESSENTIALLY OF GRANULAR MATERIALS (EG. EXCAVATED SHALE), WITH A PARTICLE SIZE NOT GREATER THAN 75mm DIAMETER. ENGINEERED FILL TO BE PLACED IN LAYERS NOT EXCEEDING 250mm LOOSE THICKNESS AND COMPACTED TO 100% OF STANDARD MAXIMUM DRY DENSITY (SMDD) WITHIN ± 2% OF OPTIMUM MOISTURE CONTENT (OMC).
9. IMPORTED FILLING (IF REQUIRED) IS TO BE TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR IS TO NOMINATE THE SOURCE AND PROVIDE A SAMPLE FOR APPROVAL PRIOR TO IMPORTATION AND PLACEMENT ON SITE.
10. ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING.
    FREE FORM ORGANIC AND PERISHABLE MATTER
    MAXIMUM PARTICLE SIZE = 75mm
    MAXIMUM PLASTICITY INDEX = 15%
    MIN CBR 5%

    ALL IMPORTED FILL MATERIAL SHALL BE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER REQUIREMENTS.
11. ALL EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH GEOTECHNICAL ENGINEER REQUIREMENTS.
12. IN-SITU DENSITY TESTING AND SUPERVISION MUST BE CARRIED OUT IN ACCORDANCE WITH GEOTECHNICAL ENGINEER REQUIREMENTS.

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUED FOR CO-ORDINATION	MB	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST

Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

Suite 2.01
828 Pacific Highway
Gordon NSW 2072

Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title: EARLY SUBDIVISION WORKS NOTES

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	N.T.S.

Drawing number: 230804_DA_C010
Revision: 04

230804_DA_C101

230804_DA_C102

230804_DA_C103

230804_DA_C104

230804_DA_C108

ESTATE ROAD

OFFICE 1

OFFICE 2.1

OFFICE 2.2

PROPOSED LOT 1
WH 1

PROPOSED LOT 2
WH 2.1

PROPOSED LOT 2
WH 2.2

NOTE: INDIVIDUAL LOTS SHOWN SCHEMATICALLY. NOT PART OF WORKS.

NOTE: INDIVIDUAL LOTS SHOWN SCHEMATICALLY. NOT PART OF WORKS.

EXISTING CREEK

WALLGROVE ROAD

WESTLINK M7

TOP OF BANK LINE AS NOTED IN BOXALL SURVEYORS SURVEY. REFERENCE 11550-001 DATED 16.03.2023

40M OFFSET FROM TOP OF BANK

EXISTING DRAINAGE DEPRESSION

100% VRZ- 20M OFFSET FROM TOP OF BANK

50% VRZ- 10M OFFSET FROM TOP OF BANK

HEAVILY FORESTED

VEGETATION

SHED

B.M. SURVEY MARK (PM18L/09) RL 118.56

GENERAL ARRANGEMENT PLAN

SCALE: 1:500

0 10 20 30 40 50m

10 8 6 4 2

SCALE 1:500

ISSUED FOR APPROVAL

SURVEY INFORMATION

SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUED FOR CO-ORDINATION	MB	FZ	17.01.2024

Client
GREATER SYDNEY PARKLANDS TRUST

Architect
nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

Suite 2.01
828 Pacific Highway
Gordon NSW 2072

Telephone
+61 2 9417 6400
Facsimile
+61 2 9417 8337
Email
email@hhconsult.com.au
Web
www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

henry&hymas

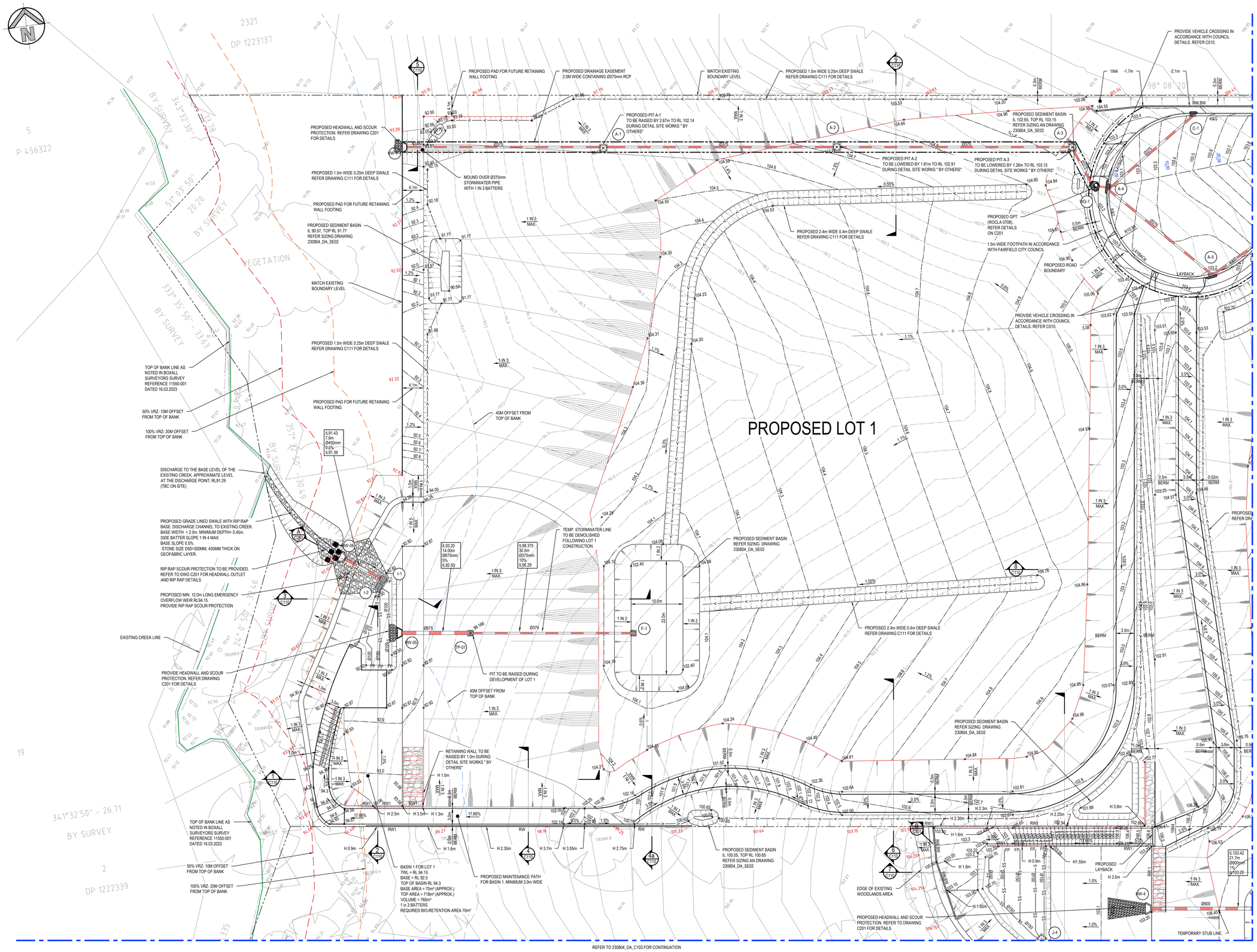
Project
PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title
EARLY SUBDIVISION WORKS
GENERAL ARRANGEMENT PLAN

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	1:500

Drawing number
230804_DA_C100

Revision
04



LEGEND

- EXISTING BOUNDARY
- PROPOSED RIDGE LINE
- PROPOSED VALLEY LINE
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- PROPOSED PIT TAG (A-1: LINE LETTER / PIT NUMBER)
- STORMWATER UPSTREAM INVERT RL (40.125) / STORMWATER PIPE DIAMETER & CLASS (Ø425RCP) / STORMWATER PIPE LENGTH (20.450m) / STORMWATER PIPE GRADE (1.5%) / STORMWATER DOWNSTREAM INVERT RL (39.818)
- PROPOSED GRATED DRAIN
- EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- PROPOSED SWALE
- PROPOSED BATTER LINE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED SPOT LEVEL
- EXISTING SPOT LEVEL
- PROPOSED FALL
- PROPOSED HEIGHT OF WALL
- PROPOSED CHAINAGE
- PROPOSED KERB & GUTTER
- PROPOSED SA KERB
- PROPOSED RETAINING WALL
- PROPOSED RETAINING WALL (BLOCKWORK)
- PROPOSED RETAINING WALL TYPE 1 (BY OTHERS)
- PROPOSED CULVERT
- PROPOSED HEADWALL
- EXISTING ELECTRICAL LINE
- EXISTING GAS LINE
- PROPOSED CRASH VEHICLE BARRIER
- PROPOSED FLUSHING POINT

DETAIL PLAN

SCALE: 1:250

ISSUED FOR APPROVAL

SURVEY INFORMATION

SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
06	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
05	ISSUED FOR SSDA APPROVAL	DC	FZ	12.09.2025
04	ISSUED FOR SSDA APPROVAL	DC	FZ	10.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUED FOR CO-ORDINATION	MB	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST

Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title: EARLY SUBDIVISION WORKS
DETAIL PLAN - SHEET 1 OF 4

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	1:250

Drawing number: 230804_DA_C101
Revision: 06

ROADWORKS DETAIL PLAN

SCALE: 1:250

INSET 1

SCALE: 1:250

LEGEND

- EXISTING BOUNDARY
- PROPOSED RIDGE LINE
- PROPOSED VALLEY LINE
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- PROPOSED PIT TAG (A-1 LINE LETTER / PIT NUMBER)
- STORMWATER UPSTREAM INVERT RL / STORMWATER PIPE DIAMETER & CLASS / STORMWATER PIPE LENGTH / STORMWATER PIPE GRADE / STORMWATER DOWNSTREAM INVERT RL (40.125 / DN/2RCP / 20.450m / 1.5% / 39.818)
- PROPOSED GRATED DRAIN
- EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- PROPOSED SWALE
- PROPOSED BATTER LINE
- EXISTING CONTOURS (109.5)
- PROPOSED CONTOURS (104.7)
- PROPOSED SPOT LEVEL (104.10)
- EXISTING SPOT LEVEL (106.4.1)
- PROPOSED FALL (1.0%)
- PROPOSED HEIGHT OF WALL (H 3.7m)
- PROPOSED CHAINAGE (CH 310.000)
- PROPOSED KERB & GUTTER (K&G)
- PROPOSED SA KERB (SA)
- PROPOSED RETAINING WALL (RW)
- PROPOSED RETAINING WALL (BLOCKWORK) (RW BW)
- PROPOSED RETAINING WALL TYPE 1 (BY OTHERS) (RW1)
- PROPOSED CULVERT
- PROPOSED HEADWALL
- EXISTING ELECTRICAL LINE (E)
- EXISTING GAS LINE (EXG)
- PROPOSED CRASH VEHICLE BARRIER (VB1)
- PROPOSED FLUSHING POINT (FP)

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY:
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
04	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
03	ISSUED FOR SSDA APPROVAL	MB	FZ	17.06.2024
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUED FOR CO-ORDINATION	MB	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST

Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

DRAWING TO BE PRINTED IN COLOUR

Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title: EARLY SUBDIVISION WORKS
DETAIL PLAN - SHEET 2 OF 4

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	1:250

Drawing number: 230804_DA_C102 Revision: 05

REFER TO 230804_DA_C101 FOR CONTINUATION

REFER TO 230804_DA_C104 FOR CONTINUATION

TOP OF BANK LINE AS NOTED IN BOXALL SURVEYORS SURVEY REFERENCE 11550-001 DATED 16.03.2023

50% VRZ- 10M OFFSET FROM TOP OF BANK

100% VRZ- 20M OFFSET FROM TOP OF BANK

RETAINING WALL TO BE RAISED BY 1.0m DURING DETAIL SITE WORKS * BY OTHERS*

BASIN 1 FOR LOT 1
TWL = RL 94.15
BASE = RL 92.6
TOP OF BASIN RL 94.3
BASE AREA = 70m² (APPROX.)
TOP AREA = 718m² (APPROX.)
VOLUME = 760m³
1 in 3 BATTERS
REQUIRED BIO-RETENTION AREA 70m²

PROPOSED MAINTENANCE PATH FOR BASIN 1. MINIMUM 3.0m WIDE

PROPOSED SEDIMENT BASIN
IL 100.05, TOP RL 100.65
REFER SIZING AN DRAWING 230804_DA_SE02

EXISTING DRAINAGE DEPRESSION

EDGE OF EXISTING WOODLANDS AREA

PROPOSED HEADWALL AND SCOUR PROTECTION. REFER TO DRAWING C201 FOR DETAILS

BASIN 2 FOR WH2
TWL = RL 104.79
BASE = RL 102.70
TOP OF BASIN RL 105.00
BASE AREA = 185m² (APPROX.)
TOP AREA = 1236m² (APPROX.)
VOLUME = 1988m³
1 in 3 BATTERS
REQUIRED BIO-RETENTION AREA = 180m²

EDGE OF EXISTING WOODLANDS AREA

PROPOSED MIN. 8.0m LONG EMERGENCY OVERFLOW. WEIR RL104.79
PROVIDE RIP RAP SCOUR PROTECTION

PROPOSED 1.5m WIDE 0.25m DEEP SWALE REFER DRAWING C111 FOR DETAILS

BASIN 2 DISCHARGE LOCATION. RIP RAP SCOUR PROTECTION TO BE PROVIDED. REFER TO DWG C201 FOR HEADWALL OUTLET AND RIP RAP DETAILS

EDGE OF EXISTING WOODLANDS AREA

PROPOSED LAYBACK

TEMPORARY STUB LINE

PROPOSED 1.5m WIDE 0.25m DEEP SWALE REFER DRAWING C111 FOR DETAILS

MATCH EXISTING LEVEL

HEAVILY FORESTED AND VEGETATED AREA

LOT 25 SEC. 4 DP 2954 4.893Ha BY SURVEY

341° 32' 50" - 26.71 BY SURVEY

2 DP 1222339

27° 44' 50" - 46.335 BY SURVEY

1° 36' 55" - 62.925 BY SURVEY

59.295

314° 02' 55"

1 DP 1222339

29 DP 1281852

98° 07' 15" - 303.695 BY SURVEY

SHED

LEGEND

- EXISTING BOUNDARY
- PROPOSED RIDGE LINE
- PROPOSED VALLEY LINE
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- LINE LETTER / PIT NUMBER — PROPOSED PIT TAG
- 40.125 / DN250RCP / 20.450m / 1.0% / 99.818 — STORMWATER UPSTREAM INVERT RL; STORMWATER PIPE DIAMETER & CLASS; STORMWATER PIPE LENGTH; STORMWATER PIPE GRADE; STORMWATER DOWNSTREAM INVERT RL
- PROPOSED GRATED DRAIN
- EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- PROPOSED SWALE
- PROPOSED BATTER LINE
- 100.5 — EXISTING CONTOURS
- 104.7 — PROPOSED CONTOURS
- 104.10 — PROPOSED SPOT LEVEL
- 106.4-1 — EXISTING SPOT LEVEL
- 1.0% — PROPOSED FALL
- H 3.7m — PROPOSED HEIGHT OF WALL
- CH 310.000 — PROPOSED CHAINAGE
- K&G — PROPOSED KERB & GUTTER
- SA — PROPOSED SA KERB
- RW — PROPOSED RETAINING WALL
- RW BW — PROPOSED RETAINING WALL (BLOCKWORK)
- RW1 — PROPOSED RETAINING WALL TYPE 1 (BY OTHERS)
- PROPOSED CULVERT
- PROPOSED HEADWALL
- E — EXISTING ELECTRICAL LINE
- EXG — EXISTING GAS LINE
- VB1 — PROPOSED CRASH VEHICLE BARRIER
- FP — PROPOSED FLUSHING POINT

0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

ROADWORKS DETAIL PLAN

SCALE: 1:250

ISSUED FOR APPROVAL

SURVEY INFORMATION

SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUED FOR CO-ORDINATION	MB	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST

Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

DRAWING TO BE PRINTED IN COLOUR

Suite 2.01
828 Pacific Highway
Gordon NSW 2072

Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title: EARLY SUBDIVISION WORKS
DETAIL PLAN - SHEET 3 OF 4

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	1:250

Drawing number: 230804_DA_C103
Revision: 04

REFER TO 230804_DA_C102 FOR CONTINUATION

REFER TO 230804_DA_C103 FOR CONTINUATION

PROPOSED LOT 2

PROPOSED 2.4m WIDE 0.4m DEEP SWALE
REFER DRAWING C111 FOR DETAILS

PROPOSED SEDIMENT BASIN
IL 104.70, TOP RL 106.30
TOP WATER LEVEL 106.00
REFER SIZING DRAWING
230804_DA_SE02

PROPOSED SEDIMENT BASIN
101.88, TOP RL 102.48
REFER SIZING DRAWING
230804_DA_SE02

PROPOSED 2.4m WIDE 0.4m DEEP SWALE
REFER DRAWING C111 FOR DETAILS

TEMPORARY STUB LINE

IL103.42
21.7m
Ø900mm
1%
IL103.20

RL106.70

MAINTAIN COVER OVER
EXISTENT GAS LINE

PROPOSED BATTER

EXISTING GAS MAIN
SIZE TO BE CONFIRMED

EXISTING BATTER
TO BE RETAINED

MATCH
EXISTING
LEVELS

EXITING BB LINE
TO BE RETAINED

PROPOSED 1.5m WIDE 0.25m DEEP SWALE
REFER DRAWING C111 FOR DETAILS

SITE
BOUNDARY

MATCH EXISTING
LEVEL

WALLGROVE ROAD

WESTLINK M7

B.M. SURVEYMARK
(PM18409)
RL 115.54

LEGEND

- EXISTING BOUNDARY
- PROPOSED RIDGE LINE
- PROPOSED VALLEY LINE
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- A-1 LINE LETTER / PIT NUMBER — PROPOSED PIT TAG
- 40.125 Ø429RCP 20.60m 1.5% 39.818 — STORMWATER UPSTREAM INVERT RL / STORMWATER PIPE DIAMETER & CLASS / STORMWATER PIPE LENGTH / STORMWATER PIPE GRADE / STORMWATER DOWNSTREAM INVERT RL
- PROPOSED GRATED DRAIN
- EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- PROPOSED SWALE
- PROPOSED BATTER LINE
- 100.5 — EXISTING CONTOURS
- 104.7 — PROPOSED CONTOURS
- 104.10 — PROPOSED SPOT LEVEL
- 106.41 — EXISTING SPOT LEVEL
- 1.0% — PROPOSED FALL
- H 3.7m — PROPOSED HEIGHT OF WALL
- CH 310.000 — PROPOSED CHAINAGE
- K&G — PROPOSED KERB & GUTTER
- SA — PROPOSED SA KERB
- RW — PROPOSED RETAINING WALL
- RW BW — PROPOSED RETAINING WALL (BLOCKWORK)
- RW1 — PROPOSED RETAINING WALL TYPE 1 (BY OTHERS)
- PROPOSED CULVERT
- PROPOSED HEADWALL
- E — E — EXISTING ELECTRICAL LINE
- EX/G — EXISTING GAS LINE
- VB1 — PROPOSED CRASH VEHICLE BARRIER
- FP — PROPOSED FLUSHING POINT

0 5 10 15 20 25m
5 4 3 2 1
SCALE 1:250

ROADWORKS DETAIL PLAN

SCALE: 1:250

ISSUED FOR APPROVAL

SURVEY INFORMATION

SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUE FOR CO-ORDINATION	MB	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST
Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

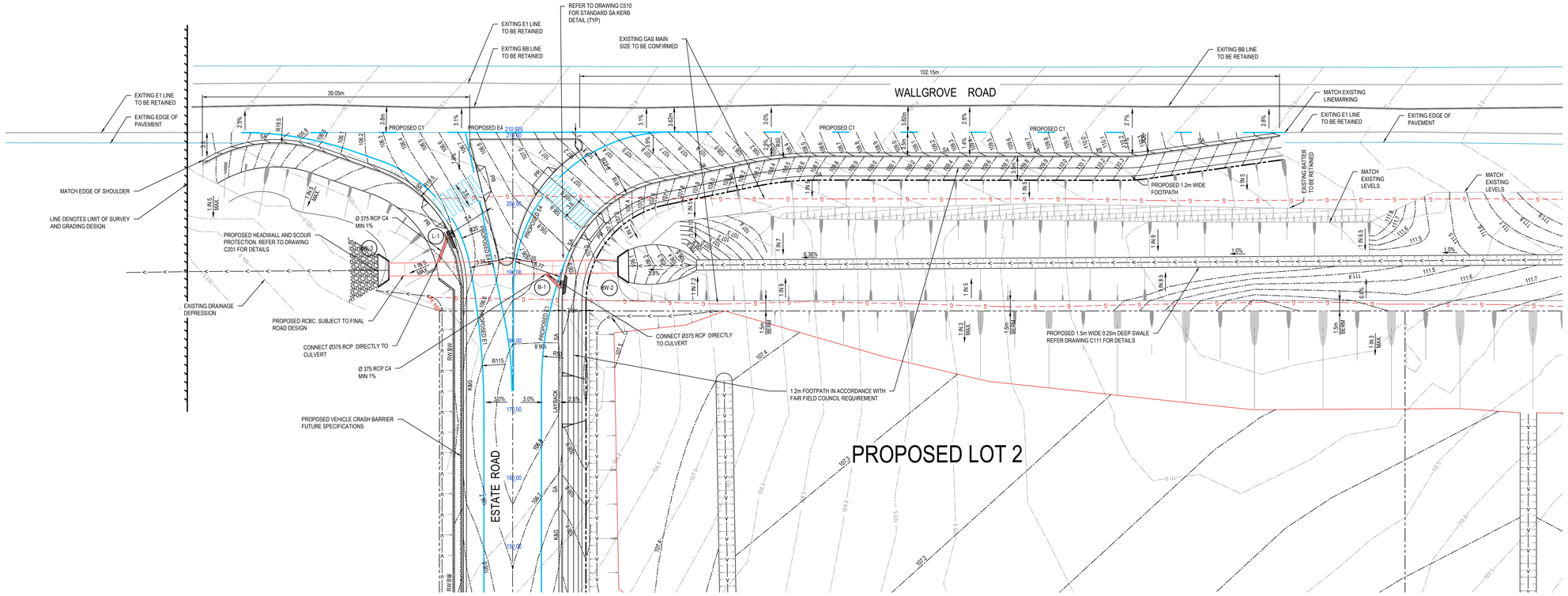
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	1:250

Drawing number: 230804_DA_C104
Revision: 04

Title: EARLY SUBDIVISION WORKS
DETAIL PLAN - SHEET 4 OF 4



INTERSECTION DETAIL PLAN

SCALE: 1:250

LEGEND

- EXISTING BOUNDARY
- PROPOSED RIDGE LINE
- PROPOSED VALLEY LINE
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- PROPOSED PIT TAG (LINE LETTER / PIT NUMBER)
- STORMWATER UPSTREAM INVERT RL / STORMWATER PIPE DIAMETER & CLASS / STORMWATER PIPE LENGTH / STORMWATER PIPE GRADE / STORMWATER DOWNSTREAM INVERT RL.
- PROPOSED GRATED DRAIN
- EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- PROPOSED SWALE
- PROPOSED BATTER LINE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED SPOT LEVEL
- EXISTING SPOT LEVEL
- PROPOSED FALL
- PROPOSED HEIGHT OF WALL
- CH 310.000 PROPOSED CHAINAGE
- K&G PROPOSED KERB & GUTTER
- SA PROPOSED SA KERB
- RW PROPOSED RETAINING WALL
- RW BW PROPOSED RETAINING WALL (BLOCKWORK)
- RW1 PROPOSED RETAINING WALL TYPE 1 (BY OTHERS)
- PROPOSED CULVERT
- PROPOSED HEADWALL
- E EXISTING ELECTRICAL LINE
- EXISTING GAS LINE
- VB1 PROPOSED CRASH VEHICLE BARRIER
- FP PROPOSED FLUSHING POINT

0 5 10 15 20 25m

5 4 3 2 1

SCALE 1:250

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR SSDA APPROVAL	DC	FZ	16.09.2025
01	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025

Client: GREATER SYDNEY PARKLANDS TRUST

Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

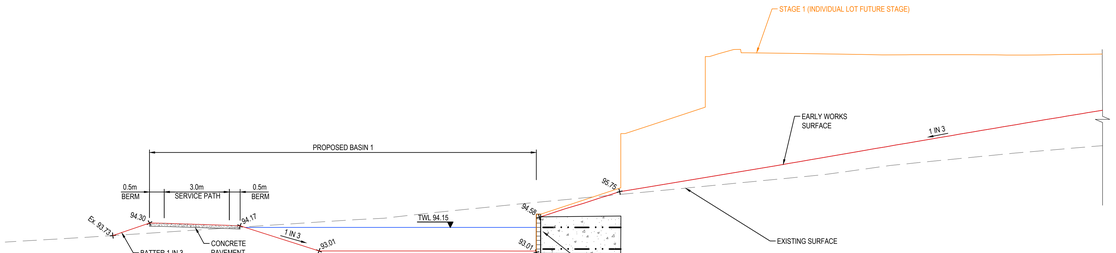
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

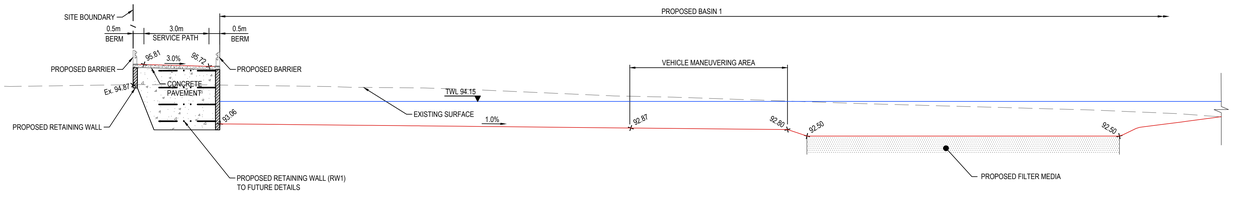
Title: EARLY SUBDIVISION WORKS
INTERSECTION DETAIL PLAN

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	1:250

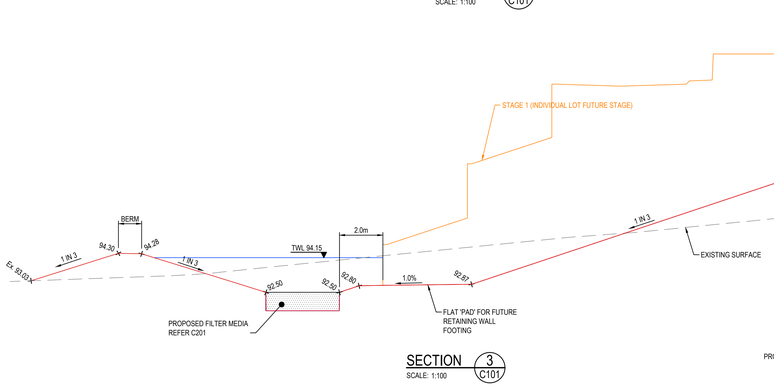
Drawing number: 230804_DA_C108
Revision: 02



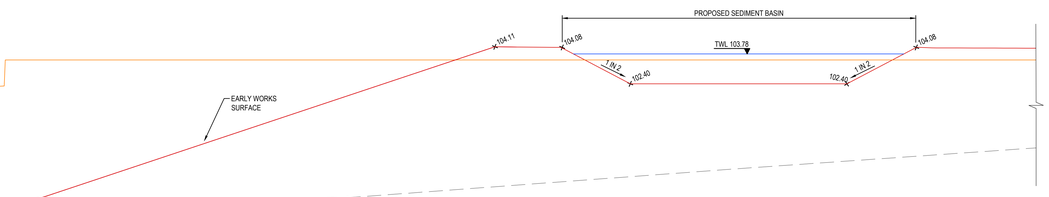
SECTION 1 C101
SCALE: 1:100

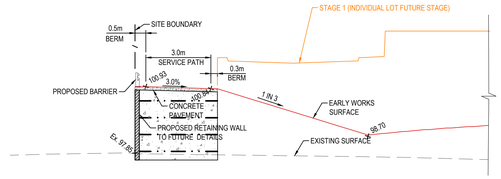


SECTION 2 C101
SCALE: 1:100

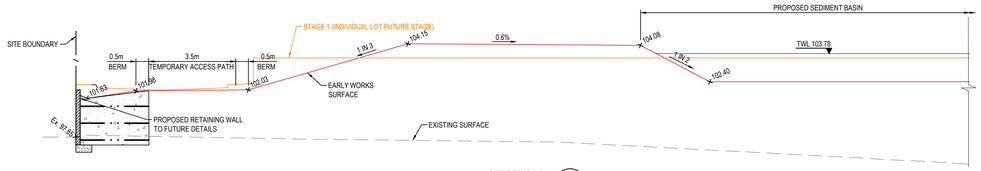


SECTION 3 C101
SCALE: 1:100

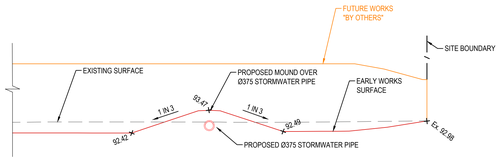




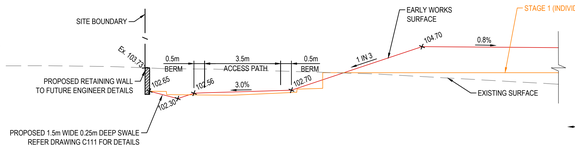
SECTION 4 C101
SCALE: 1:100



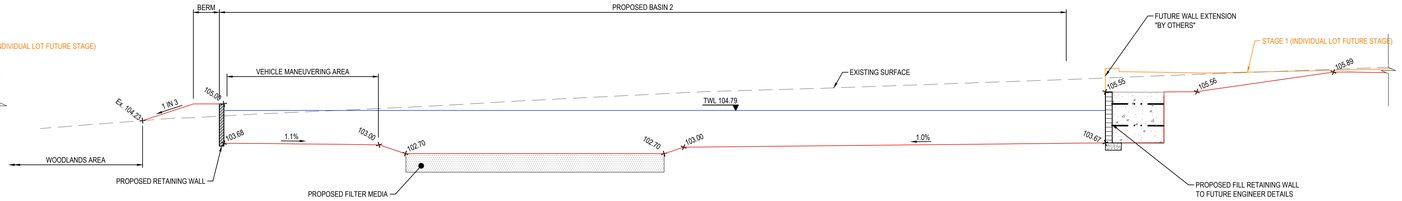
SECTION 4a C101
SCALE: 1:100



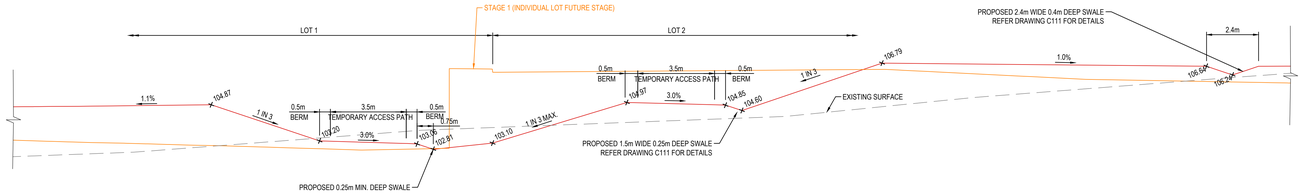
SECTION 5 C101
SCALE: 1:100



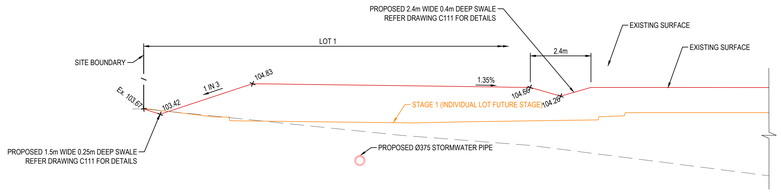
SECTION 6 C101
SCALE: 1:100



SECTION 7 C101
SCALE: 1:100



SECTION 8 C101
SCALE: 1:100



SECTION 9 C101
SCALE: 1:100

0 2 4 6 8 10m
SCALE 1:100

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY:
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	LC	NW	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUED FOR CO-ORDINATION	LC	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST
Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hconsult.com.au
Web www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

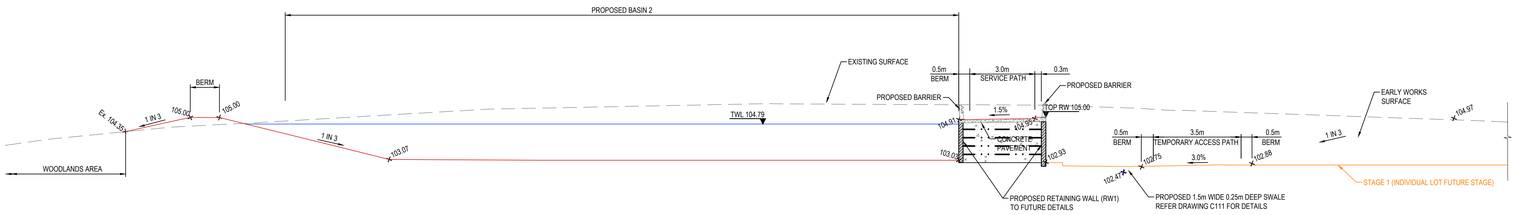
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

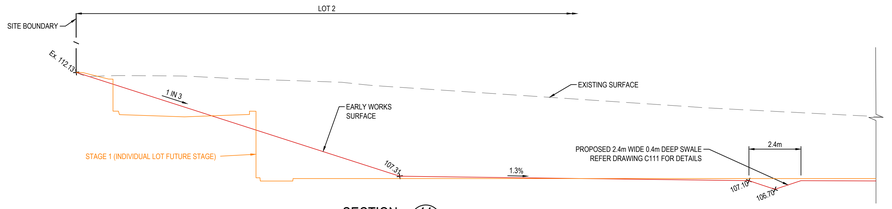
Title: EARLY SUBDIVISION WORKS
SITE SECTIONS - SHEET 1 OF 2

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	1:100

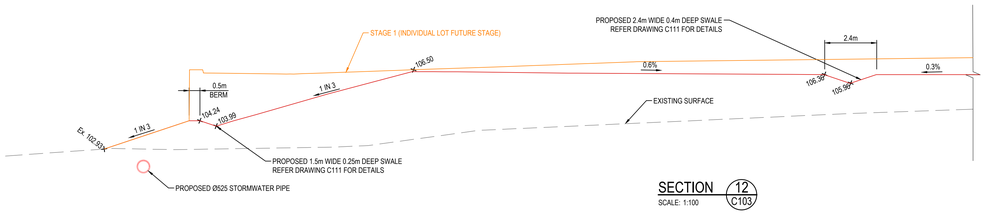
Drawing number: 230804_DA_C110
Revision: 04



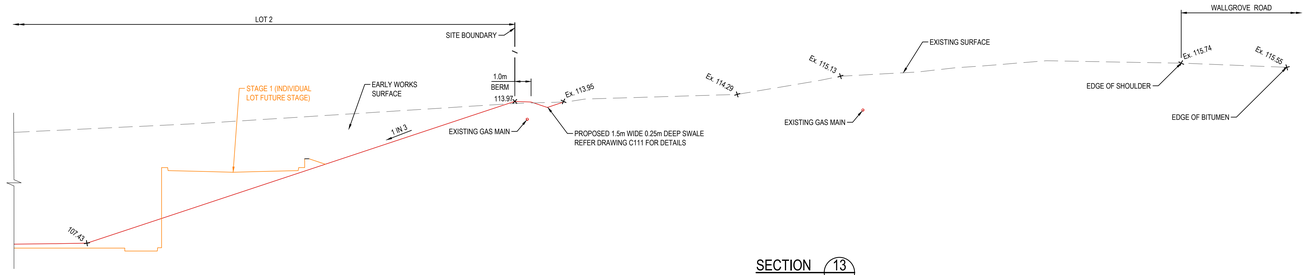
SECTION 10 (C103)
SCALE: 1:100



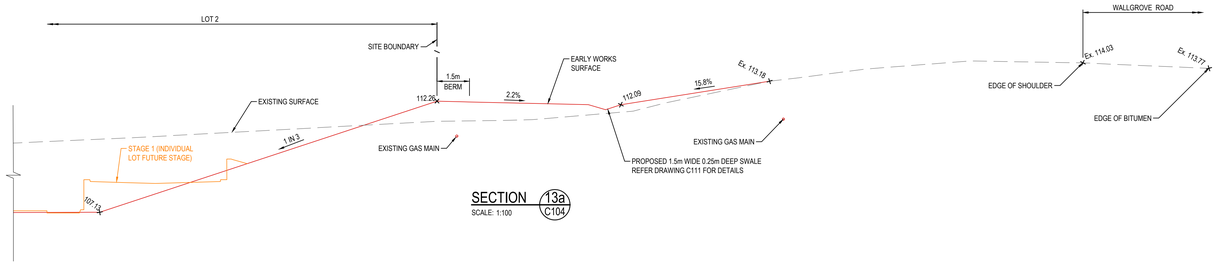
SECTION 11 (C104)
SCALE: 1:100



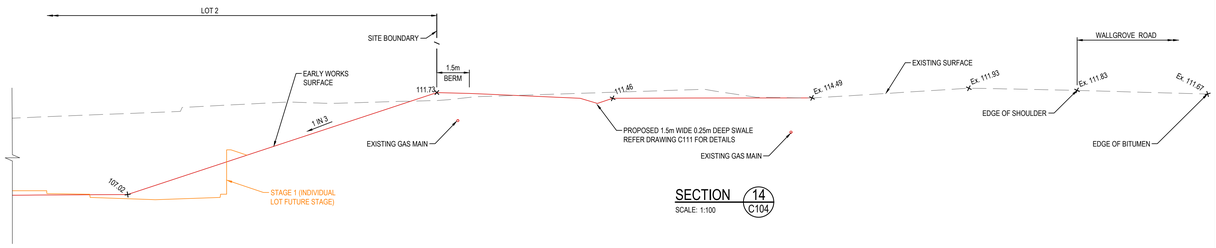
SECTION 12 (C103)
SCALE: 1:100



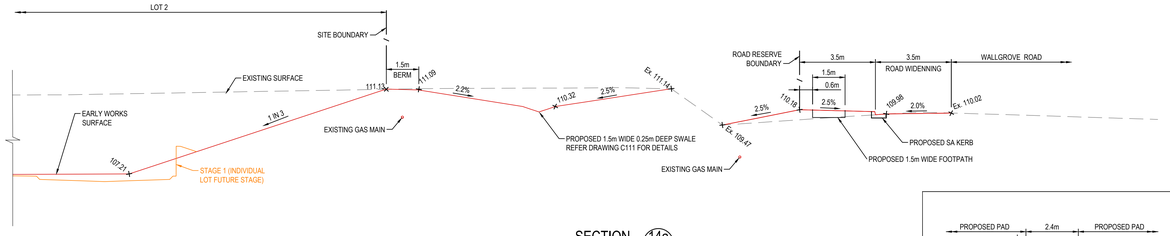
SECTION 13 (C104)
SCALE: 1:100



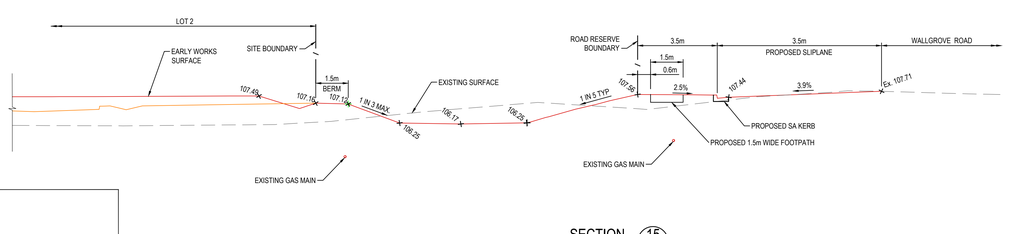
SECTION 13a (C104)
SCALE: 1:100



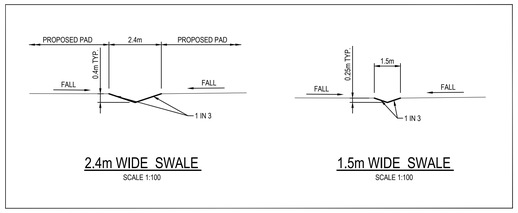
SECTION 14 (C104)
SCALE: 1:100



SECTION 14a (C104)
SCALE: 1:100

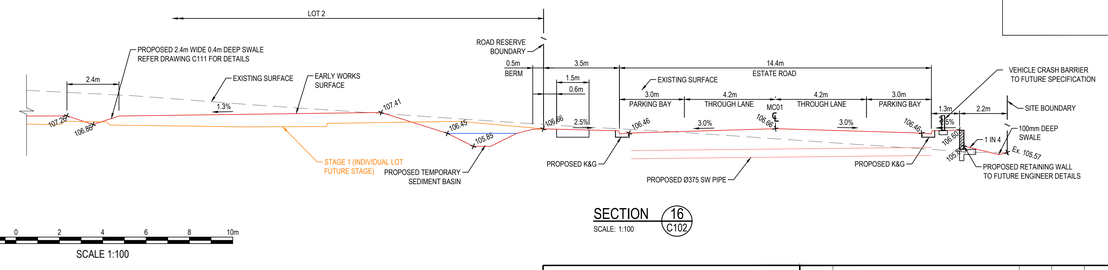


SECTION 15 (C102)
SCALE: 1:100

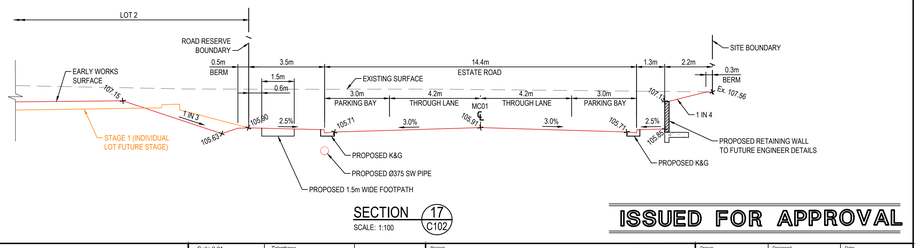


2.4m WIDE SWALE
SCALE 1:100

1.5m WIDE SWALE
SCALE 1:100



SECTION 16 (C102)
SCALE: 1:100



SECTION 17 (C102)
SCALE: 1:100

0 2 4 6 8 10m
SCALE 1:100

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY:
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	ISSUED FOR SSDA APPROVAL	LC	NW	18.09.2025
04	ISSUED FOR SSDA APPROVAL	LC	NW	24.04.2025
03	ISSUED FOR SSDA APPROVAL	MB	FZ	17.06.2024
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUED FOR CO-ORDINATION	LC	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST
Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

DRAWING TO BE PRINTED IN COLOUR

Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

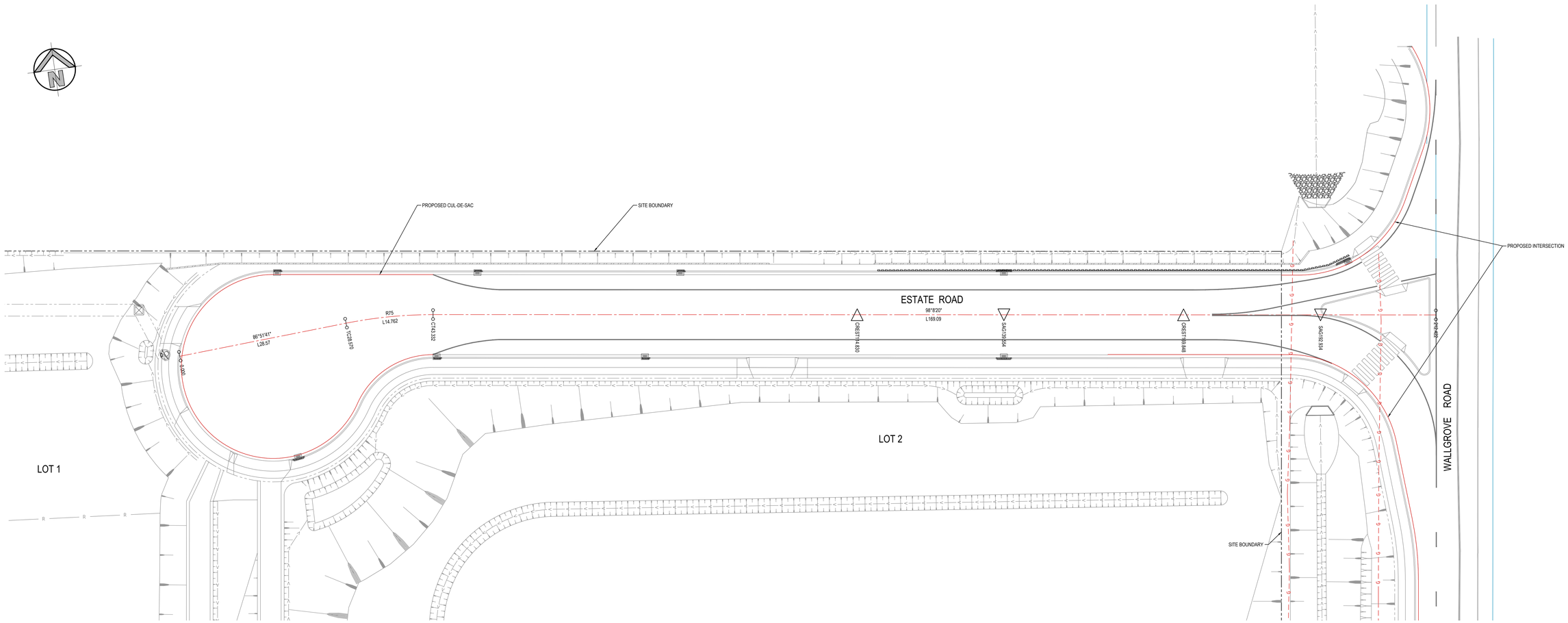
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title: EARLY SUBDIVISION WORKS
SITE SECTIONS - SHEET 2 OF 2

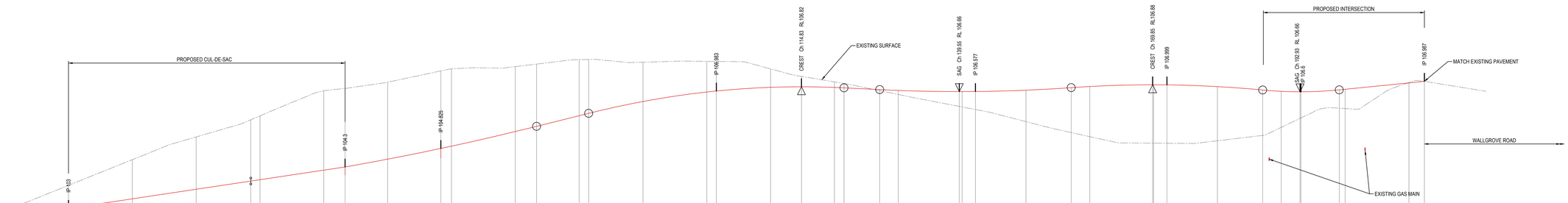
Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	1:100

Drawing number: 230804_DA_C111
Revision: 05



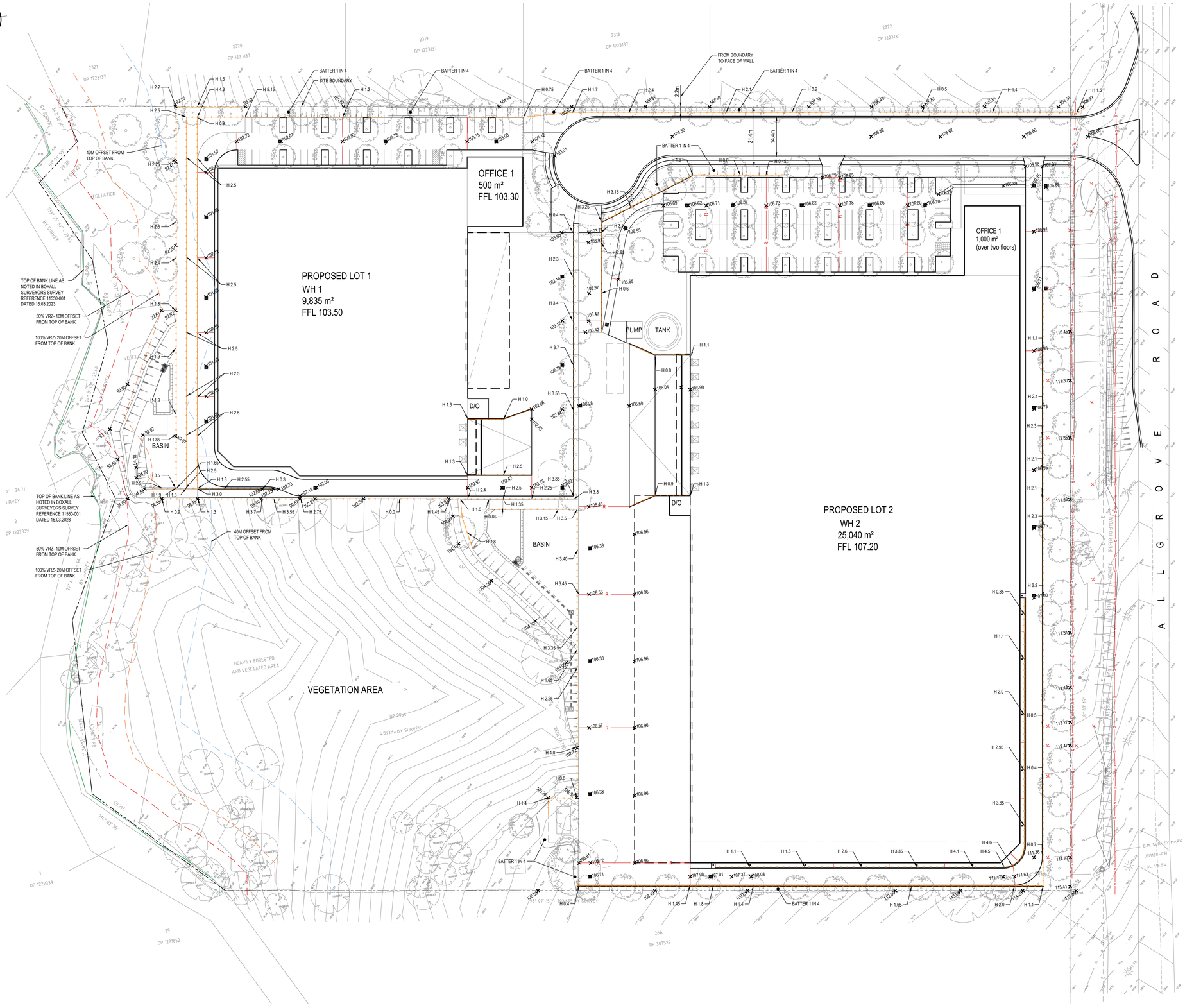
PROPOSED ROAD CHAINAGES PLAN - CENTERLINE MC01

SCALE: 1:250



HORIZONTAL CURVE DATA

| | | |



LEGEND

- EXISTING BOUNDARY
- PROPOSED RIDGE LINE
- PROPOSED VALLEY LINE
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- PROPOSED GRATED DRAIN
- PROPOSED BATTER LINE
- PROPOSED SPOT LEVEL
- PROPOSED SPOT LEVEL
- PROPOSED HEIGHT OF WALL
- PROPOSED RETAINING WALL

NOTE: GRADING, LEVELS AND RETAINING HEIGHTS BASED ON INDICATIVE LOT LAYOUT AND IS INDICATIVE ONLY.

GENERAL ARRANGEMENT PLAN

SCALE: 1:500

0 10 20 30 40 50m

SCALE 1:500

ISSUED FOR APPROVAL

SURVEY INFORMATION

SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
02	ISSUED FOR SSDA APPROVAL	DC	FZ	12.09.2025
01	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025

Client: GREATER SYDNEY PARKLANDS TRUST

Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

DRAWING TO BE PRINTED IN COLOUR

Suite 2.01
828 Pacific Highway
Gordon NSW 2072

Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

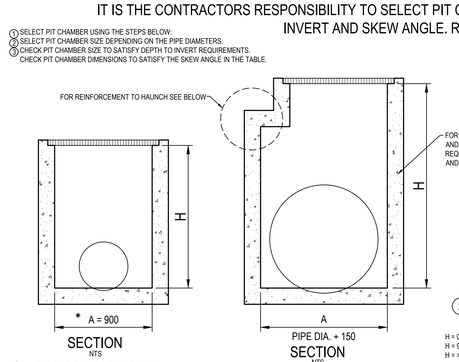
Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	1:500

Drawing number: 230804_DA_C150 Revision: 03

Title: STAGE 1 (INDIVIDUAL LOT FUTURE STAGE)
GRADING AND RETAINING CONCEPT PLAN

TYPICAL PIT CHAMBER SIZES
IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

1. SELECT PIT CHAMBER USING THE STEPS BELOW:
2. SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
3. CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
   CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.

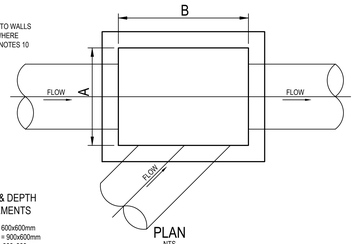


*A = 600 FOR PIPES UP TO 375 DIA.

(1) PIT CHAMBER DIMENSIONS FOR PIPES UP TO 600 DIA.

(1) PIT CHAMBER FOR PIPES GREATER THAN 600 DIA.

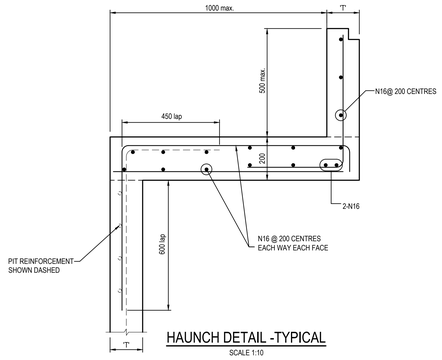
FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm
FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm
FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm
FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm
FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm



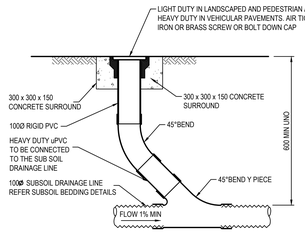
(2) PIT SIZE & DEPTH REQUIREMENTS

H = 0-900mm - AxB = 600x600mm
H = 900-1200mm - AxB = 900x600mm
H = >1200mm - AxB = 900x900mm

(3) PIT CHAMBER FOR SIDE ENTRY ON SKEW



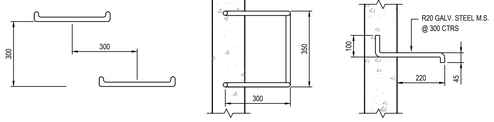
HAUNCH DETAIL -TYPICAL
SCALE 1:10



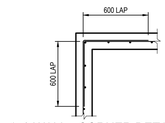
INTERMEDIATE RISER (IR)
SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED

PIT LID SCHEDULE

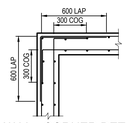
PIT/STRUCTURE NUMBER	DESCRIPTION
A-1 A-2 A-3 TP-1	PROPOSED JUNCTION PIT WITH 900x900 HEAVY DUTY SEALED LID CLASS "D", IN ACCORDANCE WITH ACCORDANCE WITH CITY OF FAIRFIELD COUNCIL'S REQUIREMENT OR APPROVED EQUIVALENT. PIT LID LEVEL TO BE ADJUSTED DURING DETAILED LOT DEVELOPING
F-1 F-2	TEMPORARY HIGH LEVEL OUTLET PIT IN SEDIMENT BASIN, REFER NOTES ON PLANS FOR DETAILS. TYPICALLY SURCHAGE STYLE INLET PIT WITH 900x900 HINGED LIGHT DUTY GRATED LID CLASS "B"
A-6 A-7 C-1 D-1 E-1 L-1	PROPOSED 1.20m KERB INLET PIT WITH HEAVY DUTY GRATE AND FRAME, CLASS 'D', IN ACCORDANCE WITH CITY OF FAIRFIELD COUNCIL'S REQUIREMENTS OR APPROVED EQUIVALENT.
A-9 A-8 A-4 A-5 B-1	PROPOSED SAG KERB INLET PIT WITH 2.4m LINTEL AND HEAVY DUTY GRATED LID CLASS "D" IN ACCORDANCE WITH CITY OF FAIRFIELD COUNCIL'S REQUIREMENTS OR APPROVED EQUIVALENT.
I-1 J-3	PROPOSED SURFACE INLET PIT WITH 1200x1200 HINGED HEAVY DUTY GRATED LID CLASS "D" IN ACCORDANCE WITH CITY OF FAIRFIELD COUNCIL'S REQUIREMENT OR APPROVED EQUIVALENT.
J-1 I-2 J-4 J-2	PROPOSED JUNCTION PIT WITH 1200x1200 HEAVY DUTY SEALED LID CLASS "D", IN ACCORDANCE WITH ACCORDANCE WITH CITY OF FAIRFIELD COUNCIL'S REQUIREMENT OR APPROVED EQUIVALENT.
RW-1 RW-2 RW-3 RW-4 RW-5 RW-6 RW-7	PROPOSED HEADWALL, REFER C201.
WQ-1	WATER QUALITY TREATMENT UNIT. ROCLA CDA 0708. REFER C202.



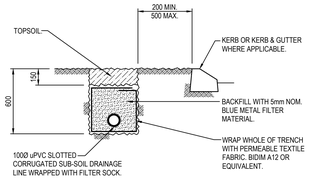
TYPICAL STEP IRON DETAIL
SCALE 1:10



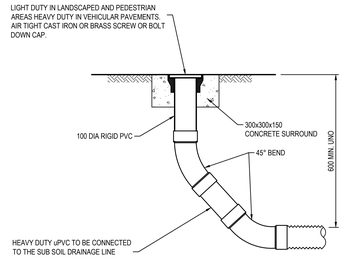
150 WALL - CORNER DETAIL
SCALE 1:20



200 WALL - CORNER DETAIL
SCALE 1:20



SUB-SOIL DRAIN DETAIL
SCALE 1:20



FLUSHING POINT (FP)
SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED

DRAINAGE NOTES:

1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.

3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.

5. MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.

6. NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.

7. FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.

8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIRED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.

9. ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE "POLYCRETE" WITH "LIGHT DUTY" CLASS B GALV. MILD STEEL GRATING AND FRAME.
ALL PITS IN TRAFFICABLE AREAS (CLASS "D" LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU f'c=32 MPa, REINFORCED WITH N12-200 BOTH LOADING WAYS CENTRALLY PLACE. U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. GALV MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.

10. ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3996.

11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:
- PIPE SIZE
- DEPTH TO INVERT
- SKEW ANGLE
  REFER TYPICAL PIT CHAMBER DETAILS BELOW
IF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.

12. FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCHED TO FACILITATE FLOW.

13. GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).

14. ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.

15. ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.

16. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.

17. ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.

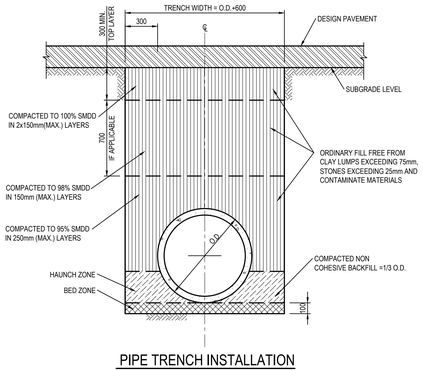
18. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.

19. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.

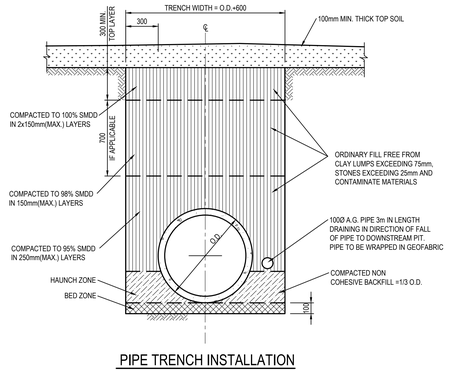
20. PITS IN EXCESS OF 1.5 m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12@200 CTS CENTRALLY PLACED BOTH WAYS, BOTH FACES THROUGHOUT U.N.O.ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.

21. SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.

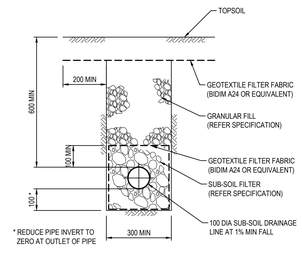
22. ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.



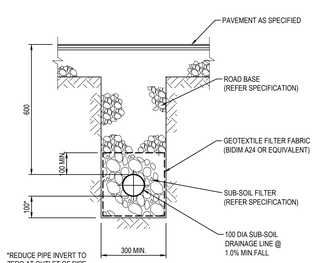
PIPE TRENCH INSTALLATION BENEATH PAVEMENT
(H1 & H2 SUPPORT)
SCALE 1:20



PIPE TRENCH INSTALLATION IN LANDSCAPE AREAS
(H1 & H2 SUPPORT)
SCALE 1:20



SUB-SOIL IN LANDSCAPED AREAS
SCALE 1:10



SUB-SOIL IN PAVED AREAS
SCALE 1:10

SUBSOIL DRAINAGE NOTES

1. GENERAL PROVIDE SUBSOIL DRAINS TO INTERCEPT GROUNDWATER SEEPAGE AND PREVENT WATER BUILD-UP BEHIND WALLS AND UNDER FLOORS AND PAVEMENT. CONNECT SUBSOIL TO SURFACE DRAINS OR TO THE STORMWATER DRAINAGE SYSTEM AS APPLICABLE.

2. PIPE DEPTH:
   PROVIDE THE FOLLOWING MINIMUM CLEAR DEPTH, MEASURED TO THE CROWN OF THE PIPE, WHERE THE PIPE PASSES BELOW THE FOLLOWING ELEMENTS:
   - 100mm BELOW FORMATION LEVEL OF THE PAVEMENT, KERB OR CHANNEL.
   - 100mm BELOW THE AVERAGE GRADIENT OF THE BOTTOM OF FOOTINGS.

3. JOINTING:
   AT JUNCTIONS OF SUBSOIL PIPES PROVIDE TEES, COUPLINGS OR ADAPTORS TO AS2439.1.

4. TRENCH WIDTH MINIMUM 300mm

5. PIPE UNDERLAY
   GENERAL: GRADE THE TRENCH FLOOR EVENLY TO THE GRADIENT OF THE PIPELINE. IF THE TRENCH FLOOR IS ROCK, CORRECT ANY IRREGULARITIES WITH COMPACTED BEDDING MATERIAL. BED PIPING ON A CONTINUOUS UNDERLAY OF BEDDING MATERIAL, AT LEAST 75mm THICK AFTER COMPACTION. LAY THE PIPE WITH ONE LINE OF PERFORATIONS AT THE BOTTOM.

   CHASES: IF NECESSARY TO PREVENT PROJECTIONS SUCH AS SOCKETS AND FLANGES FROM BEARING ON THE TRENCH BOTTOM OR UNDERLAY.

6. PIPE SURROUNDS:
   GENERAL: PLACE THE MATERIAL IN THE PIPE SURROUND IN LAYERS SMALLER THAN OR EQUAL TO 200mm LOOSE THICKNESS, AND COMPACT WITHOUT DAMAGING OR DISPLACING PIPING.
   DEPTH OF OVERLAY: TO THE UNDERSIDE OF THE BASE OF OVERLYING STRUCTURES SUCH AS PAVEMENTS, SLABS AND CHANNELS. TO WITHIN 150mm OF THE FINISHED SURFACE OF UNPAVED OR LANDSCAPED AREAS.

7. FILTER SOCKS PROVIDE POLYESTER PERMEABLE SOCKS CAPABLE OF RETAINING PARTICLES OF 0.25mm SIZES. SECURELY FIT OF JOIN THE SOCK AT EACH JOINT.

TABLE 1

SIEVE SIZE (MM)	WEIGHT PASISNG (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

TABLE 2

SIEVE SIZE (MM)	WEIGHT PASISNG (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

TABLE 3

SUPPORT TYPE	BED ZONE X	HAUNCH ZONE Y	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR
HS1	100 IF D<=1500 , OR 150 IF D>=1500	0.1D	50	2.0
HS2		0.3D	60	2.5
HS3		0.3D	70	4.0

0 200 400 600 800 1000mm
200 100
SCALE 1:10

0 400 800 1200 1600 2000mm
400 200
SCALE 1:20

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUED FOR CO-ORDINATION	MB	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST
Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

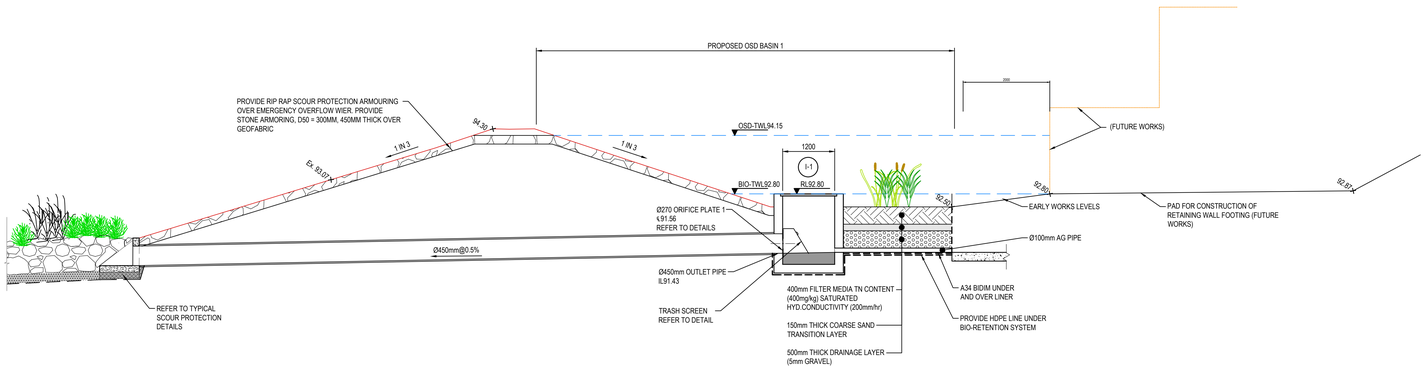
DRAWING TO BE PRINTED IN COLOUR

Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW
Title: EARLY SUBDIVISION WORKS
STORMWATER MISECELLANEOUS DETAILS AND PIT LID SCHEDULE

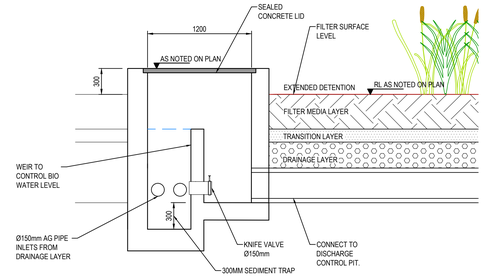
Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	AS NOTED

Drawing number: 230804_DA_C200
Revision: 04



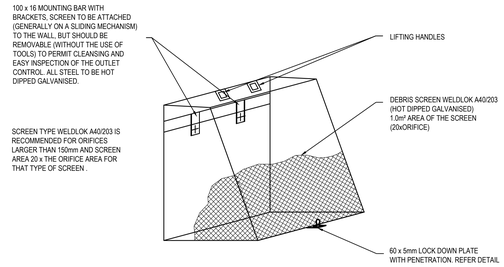
SECTION A / C101

SCALE: 1:50



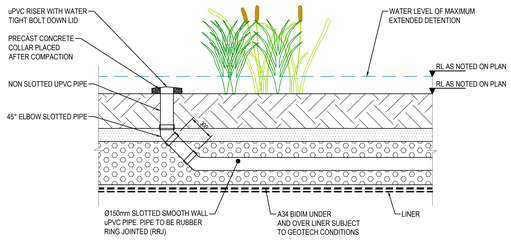
OUTLET FOR LARGE BIO-RETENTION SYSTEM (BASIN 2)

SCALE 1:25



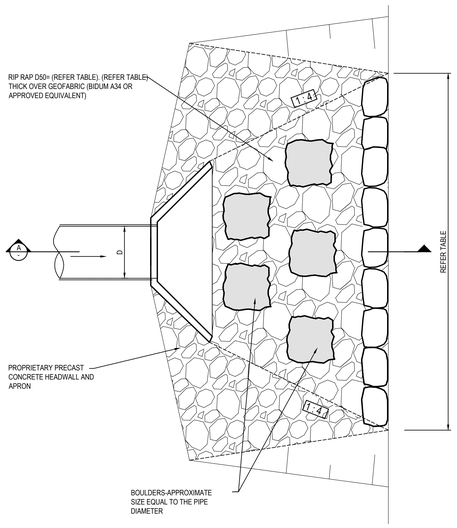
DEBRIS SCREEN DETAIL

NOT TO SCALE
ALL STEEL TO BE HOT DIPPED GALVANISED



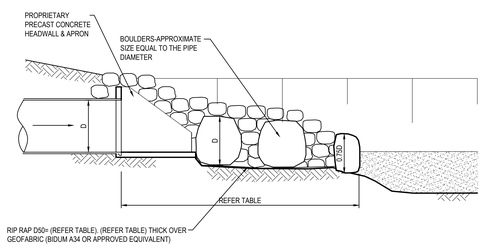
DRAINAGE & FLUSHING POINTS

SCALE:1:25



ROCK HEADWALL - OUTLET PLAN TYPICAL

SCALE N.T.S.

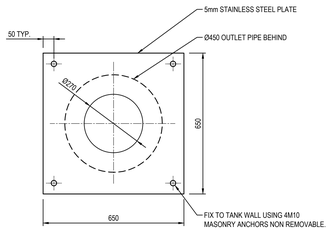


SECTION A / -

SCALE N.T.S.

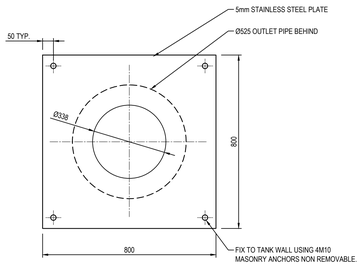
	D_{50}					ROCK DISTRUBUTION BY %
	200mm	300mm	400mm	500mm	600mm	
ROCK SIZE (mm)	400	600	750	850	900	15-25%
	300	400	525	600	750	20%
	200	300	400	500	600	50%
	75	100	150	150	200	15-25%

ROCK GRADATION TABLE



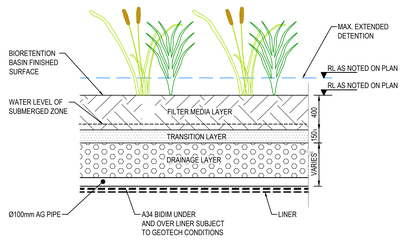
ORIFICE PLATE DETAIL 1

SCALE 1:10



ORIFICE PLATE DETAIL 2

SCALE 1:10



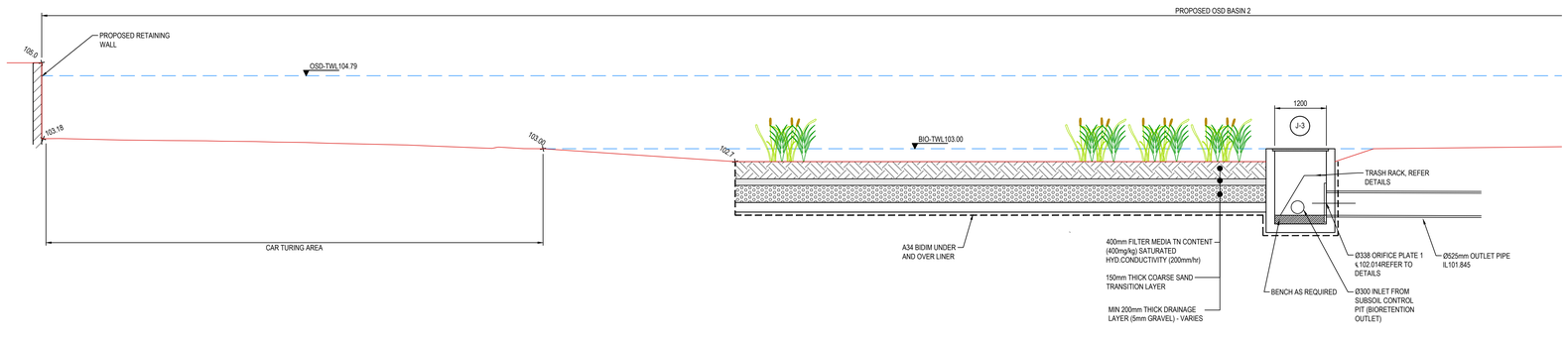
BIO-RETENTION FILTER PROFILE

SCALE 1:25

NOTE: PROVIDE MYCOTROPHIC PLANTS IN ACCORDANCE WITH LOCAL COUNCIL BIO-RETENTION LANDSCAPING DETAILS

	ENTRY PIPE	HEADWALL	D_{50}	RIP RAP THICKNESS	LENGTH OF RIPRAP	WIDTH AT END
HW1	Ø375 RCP C2	PRECAST SINGLE CELL	300mm	400mm	4m	2m
HW2	1800x600 RCBC (T.B.C.)	PRECAST SINGLE CELL	400mm	600mm	4m	4m
HW3	1800x600 RCBC (T.B.C.)	PRECAST SINGLE CELL	400mm	600mm	4m	4m
HW4	Ø900 RCP C2	PRECAST SINGLE CELL	400mm	600mm	7.2m	2.7m
HW5	Ø675 RCP C2	PRECAST SINGLE CELL	400mm	300mm	5.4m	2.1m
HW6	Ø450 RCP C2	PRECAST SINGLE CELL	200mm	300mm	2m	1.5m
HW7	Ø600 RCP C2	PRECAST SINGLE CELL	300mm	450mm	3m	1.8m
HW8	Ø375 RCP C2	PRECAST SINGLE CELL	200mm	300mm	2m	1.2m

SCOUR PROTECTION - RIP RAP SIZING TABLE



SECTION B / C103

SCALE: 1:50

0 500 1000 1500 2000 2500mm
500 300 100
SCALE 1:25

0 1000 2000 3000 4000 5000mm
1000 600 200
SCALE 1:50

ISSUED FOR APPROVAL

SURVEY INFORMATION

SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
04	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
03	ISSUED FOR SSDA APPROVAL	MB	FZ	17.06.2024
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUED FOR CO-ORDINATION	MB	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST
Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

DRAWING TO BE PRINTED IN COLOUR

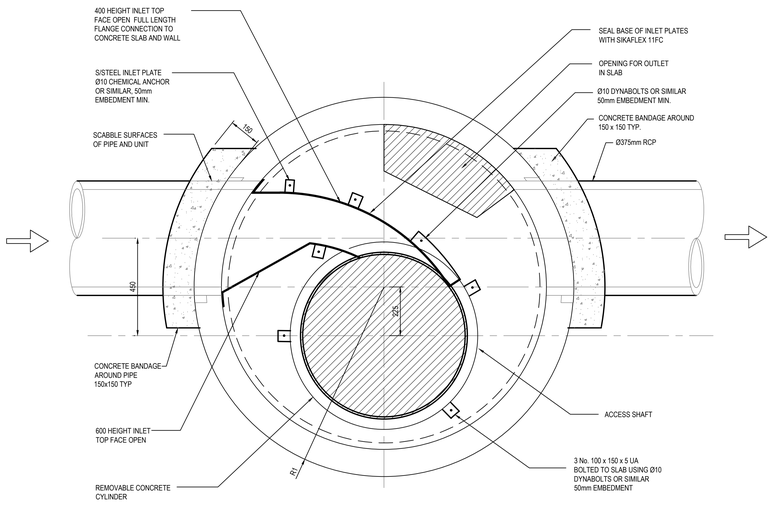
Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

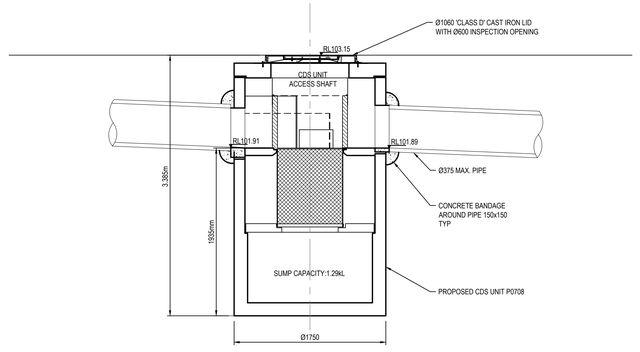
Title: EARLY SUBDIVISION WORKS
BIO-RETENTION BASIN SECTIONS AND STORMWATER DETAILS

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	AS NOTED

Drawing number: 230804_DA_C201
Revision: 05



LAYOUT
SCALE 1:10



SECTION
SCALE 1:25

0 500 1000 1500 2000 2500mm
500 300 100
SCALE 1:25

0 200 400 600 800 1000mm
200 100
SCALE 1:10

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
02	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
01	ISSUED FOR SSDA APPROVAL	MB	FZ	01.02.2024

Client: GREATER SYDNEY PARKLANDS TRUST
Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

DRAWING TO BE PRINTED IN COLOUR

Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

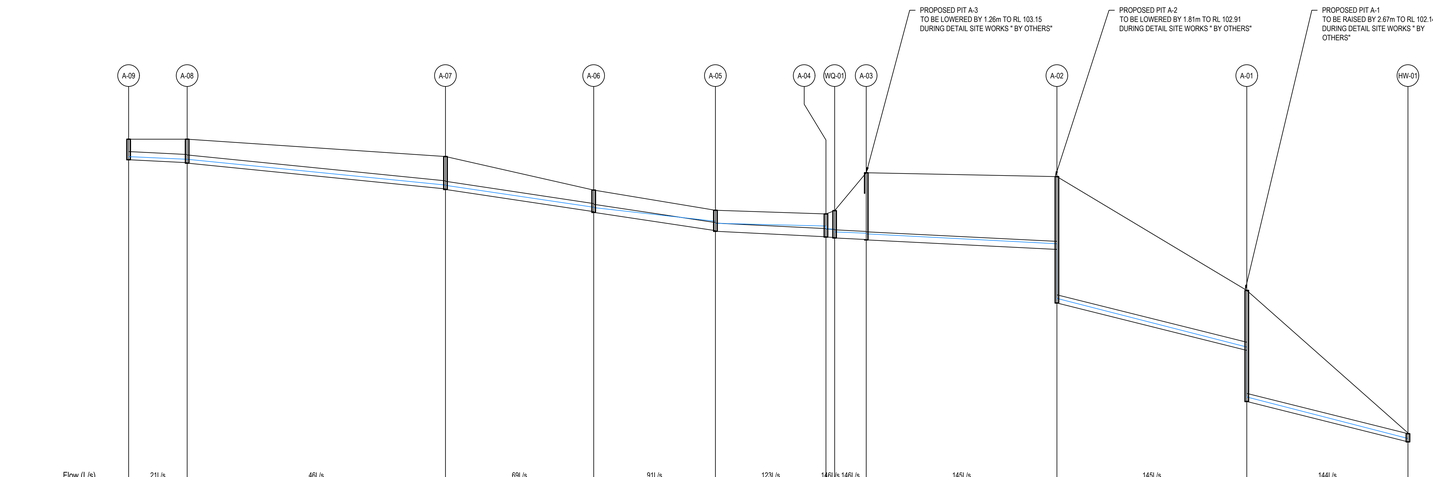
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

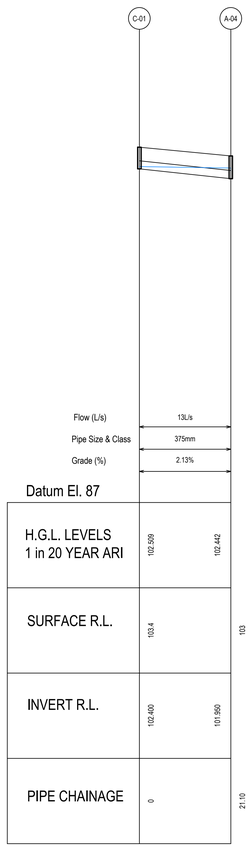
Title: EARLY SUBDIVISION WORKS
GROSS POLLUTANT TRAP DETAIL

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	AS NOTED

Drawing number: 230804_DA_C202
Revision: 03


PROPOSED PIT A-3
TO BE LOWERED BY 1.26m TO RL 103.15
DURING DETAIL SITE WORKS * BY OTHERS*
PROPOSED PIT A-2
TO BE LOWERED BY 1.81m TO RL 102.91
DURING DETAIL SITE WORKS * BY OTHERS*
PROPOSED PIT A-1
TO BE RAISED BY 2.67m TO RL 102.14
DURING DETAIL SITE WORKS * BY OTHERS*
A-09
A-08
A-07
A-06
A-05
A-04
WQ-01
A-03
A-02
A-01
HW-01

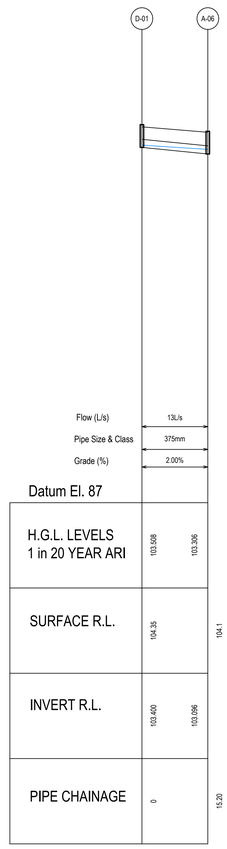
| | | |



Flow (L/s)	13L/s	
Pipe Size & Class	375mm	
Grade (%)	2.13%	
Datum El. 87		
H.G.L. LEVELS 1 in 20 YEAR ARI	102.509	102.442
SURFACE R.L.	103.4	103
INVERT R.L.	102.400	101.950
PIPE CHAINAGE	0	21.10

LINE C-01 - A-04

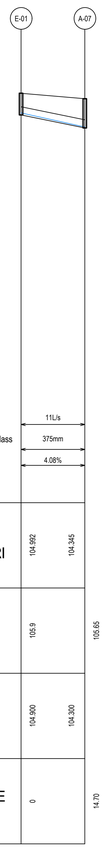
SCALE: H 1:500 / V 1:100



Flow (L/s)	13L/s	
Pipe Size & Class	375mm	
Grade (%)	2.00%	
Datum El. 87		
H.G.L. LEVELS 1 in 20 YEAR ARI	103.508	103.306
SURFACE R.L.	104.35	104.1
INVERT R.L.	103.400	103.096
PIPE CHAINAGE	0	15.20

LINE D-01 - A-06

SCALE: H 1:500 / V 1:100



Flow (L/s)	11L/s	
Pipe Size & Class	375mm	
Grade (%)	4.08%	
Datum El. 87		
H.G.L. LEVELS 1 in 20 YEAR ARI	104.992	104.345
SURFACE R.L.	105.9	105.65
INVERT R.L.	104.900	104.300
PIPE CHAINAGE	0	14.70

LINE E-01 - A-07

SCALE: H 1:500 / V 1:100

0 2 4 6 8 10m
2 1
SCALE 1:100

0 10 20 30 40 50m
10 8 6 4 2
SCALE 1:500

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613; RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUED FOR CO-ORDINATION	MB	FZ	17.01.2024

Client
GREATER SYDNEY PARKLANDS TRUST

Architect
nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

Suite 2.01
828 Pacific Highway
Gordon NSW 2072

Telephone
+61 2 9417 8400
Facsimile
+61 2 9417 8337
Email
email@hhconsult.com.au
Web
www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

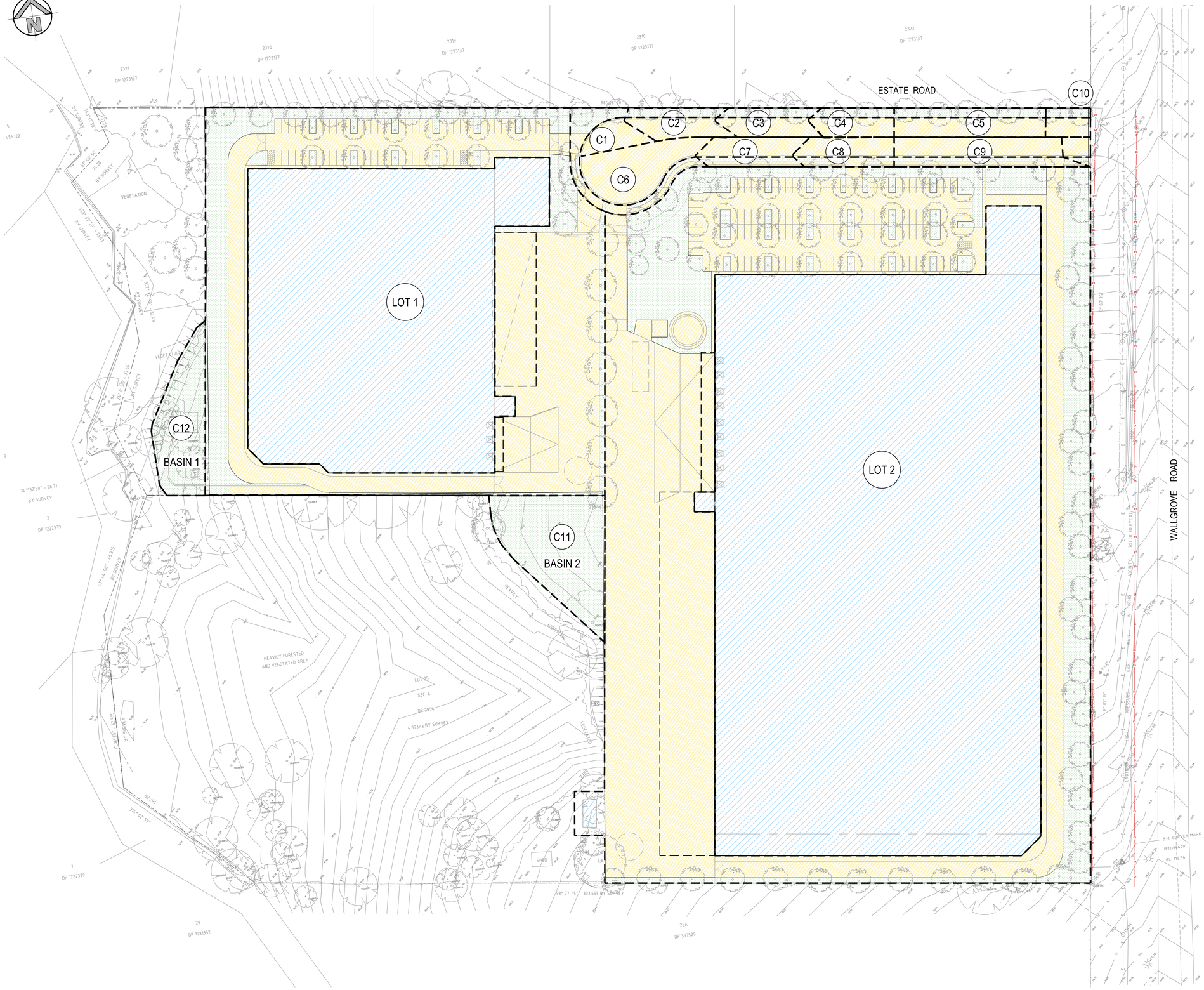
henry&hymas

Project
PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title
EARLY SUBDIVISION WORKS
STORMWATER LONG SECTION - SHEET 2 OF 2

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	AS SHOWN

Drawing number: 230804_DA_C211
Revision: 04



STORMWATER CATCHMENT PLAN - MASTERPLAN STAGE

SCALE: 1:500

0 10 20 30 40 50m

10 8 6 4 2

SCALE 1:500

TOTAL SITE AREA = 72835m²
AREA = 62901 (86% IMPERVIOUS)
AREA = 9934 (14% PERVIOUS)

TOTAL LOT 1 AREA TO BASIN 1 = 20078.97m²
86.75% IMPERVIOUS
13.25% PERVIOUS

- ROOF: AREA = 10386.31m² (51.73% IMPERVIOUS)
- HARDSTAND: AREA = 7032.35m² (35.02% IMPERVIOUS)
- LANDSCAPE: AREA = 2660.31m² (13.25% PERVIOUS)

TOTAL LOT 2 AREA TO BASIN 2 = 45556.60m²
87.90% IMPERVIOUS
12.10% PERVIOUS

- ROOF: AREA = 25593.58m² (56.18% IMPERVIOUS)
- HARDSTAND: AREA = 14449.92m² (31.72% IMPERVIOUS)
- LANDSCAPE: AREA = 5513.10m² (12.10% PERVIOUS)

TOTAL C1 AREA = 383.5m²
54% IMPERVIOUS
46% PERVIOUS

- HANDSTAND: AREA = 208.4m²
- LANDSCAPE: AREA = 175.1m²

TOTAL C2 AREA = 366.7m²
66% IMPERVIOUS
34% PERVIOUS

- HANDSTAND: AREA = 243.6m²
- LANDSCAPE: AREA = 123.1m²

TOTAL C3 AREA = 354.6m²
67% IMPERVIOUS
33% PERVIOUS

- HANDSTAND: AREA = 237.8m²
- LANDSCAPE: AREA = 116.8m²

TOTAL C4 AREA = 307.2m²
68% IMPERVIOUS
32% PERVIOUS

- HANDSTAND: AREA = 207.9m²
- LANDSCAPE: AREA = 99.3m²

TOTAL C5 AREA = 588.8m²
67% IMPERVIOUS
33% PERVIOUS

- HANDSTAND: AREA = 393.1m²
- LANDSCAPE: AREA = 195.7m²

TOTAL C6 AREA = 891.1m²
75% IMPERVIOUS
25% PERVIOUS

- HANDSTAND: AREA = 667.0m²
- LANDSCAPE: AREA = 224.1m²

TOTAL C7 AREA = 374.6m²
67% IMPERVIOUS
33% PERVIOUS

- HANDSTAND: AREA = 249.7m²
- LANDSCAPE: AREA = 124.9m²

TOTAL C8 AREA = 367.3m²
67% IMPERVIOUS
33% PERVIOUS

- HANDSTAND: AREA = 245.3m²
- LANDSCAPE: AREA = 122.0m²

TOTAL C9 AREA = 674.0m²
66% IMPERVIOUS
34% PERVIOUS

- HANDSTAND: AREA = 443.2m²
- LANDSCAPE: AREA = 230.8m²

TOTAL C10 AREA = 265.2m²
72% IMPERVIOUS
28% PERVIOUS

- HANDSTAND: AREA = 190.8m²
- LANDSCAPE: AREA = 74.4m²

TOTAL C11,C12 AREA = 2303m²
100% PERVIOUS

- LANDSCAPE: AREA = 2303m²

SURVEY INFORMATION
SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	13.02.2024
01	ISSUED FOR CO-ORDINATION	MB	NW	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST
Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW
Title: STAGE 1 (INDIVIDUAL LOT FUTURE STAGE) STORMWATER CATCHMENT PLAN

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzler	A.Francis	1:500

Drawing number: 230804_DA_C250
Revision: 04

ISSUED FOR APPROVAL

MASONRY CONSTRUCTION:

B1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3700 AND AS NOTED ON THE DRAWINGS.

B2 BRICK AND BLOCK COMPRESSIVE STRENGTH (f'uc) SHALL BE 15 MPa MINIMUM UNO . STRENGTH GRADE SHALL BE CLEARLY INDICATED ON THE DELIVERY DOCKETS.

B3 JOINT MORTAR SHALL BE OF CLASS M3 WITH 1:1:6 (CEMENT: LIME: SAND) PROPORTIONS BY VOLUME AND COMPLY WITH AS3700. MORTAR JOINTS SHALL BE 10 mm THICK AND HAVE A MAXIMUM TOOLED DEPTH OF 3 mm UNO.

B4 NON-LOAD BEARING WALLS SHALL BE SEPARATED FROM THE LOAD-BEARING ELEMENTS BY 15 mm THICK 'CANEITE' OR EXPANDED POLYSTYRENE UNO AT BOTH HORIZONTAL AND VERTICAL FACES.

NON-LOAD BEARING WALLS SHALL BE TIED TO THE SOFFITS OF BEAMS OR SLABS OVER BY USING 'MET 4-1' TIES (OR APPROVED EQUIVALENT), AT 800 mm MAX. CENTRES, UNO ON THE DRAWINGS, TO MANUFACTURER'S SPECIFICATIONS

B5 WHERE CONCRETE SLABS BEAR ON UNREINFORCED MASONRY, INCLUDING CLAY BRICKS, RENDER THE BEARING SURFACE OF THE MASONRY WALL WITH 1:3 (CEMENT : SAND) MORTAR TO ACHIEVE A LEVEL SURFACE AND PLACE A PRE-GREASED METAL SLIP JOINT PROTECTED BY 0.2 mm POLYETHYLENE SHEET TAPED TO THE FORMWORK BEFORE PLACING CONCRETE. SPECIAL DETAILS SUCH AS WATER-PROOFING MAY APPLY FOR ROOF SLABS OR SIMILARLY EXPOSED ELEMENTS.

B6 CONTROL JOINTS

1. CONTROL JOINTS SHALL BE PROVIDED IN MASONRY WALLS AS PER THE TABLE BELOW UNLESS CLOSER SPACINGS ARE SPECIFIED ELSEWHERE IN THE DOCUMENTATION.

MASONRY TYPE	LOCATION	JOINT SIZE (mm)	SPACING (m)
CONCRETE MASONRY	- EXTERNAL	10	7.0
	- EXTERNAL (WITH OPENINGS > 900mm IN HEIGHT)	10	5.0
	- INTERNAL (FACE FINISHED)	10	6.0
	- INTERNAL (RENDERED)	10	5.0
LIGHT-WEIGHT MASONRY	- INTERNAL / EXTERNAL	10	6.0
CLAY MASONRY	- INTERNAL / EXTERNAL	15	6.0 *
	- PARAPET WALLS	15	4.0

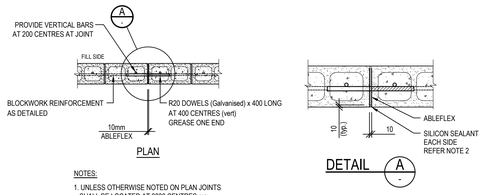
* - FOR REACTIVE 'CLASS M' SITES ONLY. REFER TABLE 4.3 OF AS3700:2011 FOR ARTICULATION JOINTS IN CLAY MASONRY.

2. CONTROL JOINTS SHALL BE PLACED AT HALF THE SPECIFIED SPACING FROM A CORNER. PROVIDE JOINTS TO MATCH JOINTS IN THE SUPPORTING STRUCTURE.
3. CONTROL JOINTS MUST BE KEPT FREE OF MORTAR AND SEALED WITH A POLYETHYLENE FOAM BACKING ROD SQUEEZED INTO THE GAP AND A GUNNED-IN MASTIC SEALANT. IF THE WALL IS TO BE FIRE-RATED, A FIRE-RATED SEALING SYSTEM WILL BE REQUIRED INSTEAD.

B7 BLOCKWORK

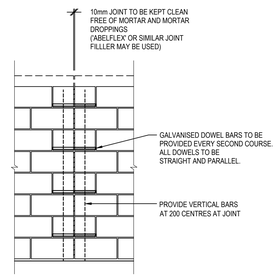
1. IN CORE-FILLED BLOCKWORK, EXCESS MORTAR PROTRUDING INTO THE CORES SHALL BE REMOVED BY RODDING AFTER EACH COURSE IS LAID. EVERY CORE FILLED WITH GROUT SHALL HAVE A CLEANOUT BLOCK IN THE BOTTOM COURSE.
2. REINFORCEMENT SHALL BE PLACED AND SECURELY TIED IN POSITION AS SHOWN ON THE DRAWINGS. STARTER BARS SHALL BE HELD IN PLACE BY TYING TO HORIZONTAL BARS AT CLEANOUT BLOCKS. PROVIDE COVER TO REINFORCEMENT AS SHOWN IN THE DETAILS.
3. CORE FILLING GROUT SHALL BE AS NOTED IN CONCRETE NOTES IN LIFTS NO MORE THAN 1200mm IN HEIGHT.

Element	Slump	Max. Agg. Size	Cement Type	Exposure Classifn.	Min. Conc. Grade (f'c) MPa U.N.O.	Conc. Cover (U.N.O.)
Core Filling Grout	230±30	10	GP	-	20	-



NOTES:

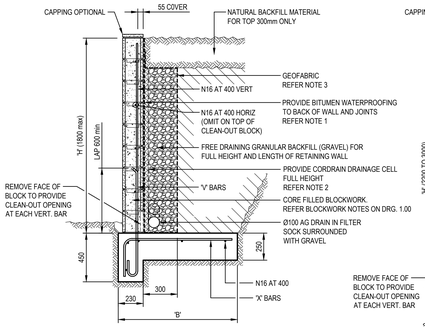
1. UNLESS OTHERWISE NOTED ON PLAN JOINTS SHALL BE LOCATED AT 8000 CENTRES max. AND 4000 FROM CORNERS.
2. PROVIDE SILICON SEALANT BOTH FACES IN ALL JOINTS. USE PARCHEM EMER-SEAL CR OR AN APPROVED EQUIVALENT.



ELEVATION

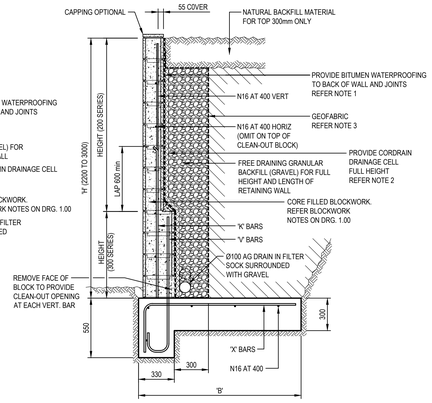
TYPICAL BLOCKWORK VERTICAL EXPANSION JOINT

SCALE 1:20



150 OR 200 SERIES BLOCK WALL

15.0 kPa SURCHARGE



200 AND 300 SERIES BLOCK WALL

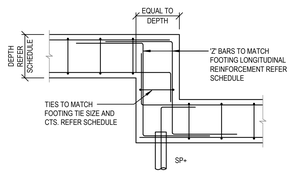
15.0 kPa SURCHARGE

RETAINING WALL SCHEDULE

TOTAL HEIGHT 'H' (mm)	HEIGHT OF BLOCK TYPE 200 SERIES	HEIGHT OF BLOCK TYPE 300 SERIES	'B' (mm)	'V' & 'X' BARS	'K' BARS
800	800	-	900	N16 AT 400	-
1000	1000	-	1000	N16 AT 400	-
1200	1200	-	1100	N16 AT 400	-
1400	1400	-	1200	N16 AT 400	-
1600	1600	-	1300	N16 AT 400	-
1800	1800	-	1400	N20 AT 400	-
2000	1400	600	1500	N16 AT 400	-
2200	1400	800	1700	N16 AT 400	N16 AT 400
2400	1400	1000	1900	N20 AT 400	N20 AT 400
2600	1400	1200	2200	N20 AT 400	N20 AT 400
2800	1400	1400	2400	N20 AT 400	N20 AT 400
3000	1400	1600	2700	N20 AT 400	N20 AT 400

NOTES:

1. ENSURE REAR FACE OF RETAINING WALL IS FULLY WATERPROOFED. USE EMER-PROOF ECOFLEX OR APPROVED EQUIVALENT IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION, EG: 2 COATS min. APPLIED IN OPPOSITE DIRECTIONS AND ALLOWED TO CURE FOR 7 DAYS.
2. INSTALL FULL HEIGHT DRAINAGE CELL TO REAR OF WALL. USE NYLEX CORDRAIN18 OR APPROVED EQUIVALENT, THESE ARE SUPPLIED IN 1.2m WIDE ROLLS x 25m LONG AVAILABLE FROM MACCAFERRI IN ALL CAPITAL CITIES.
3. PROVIDE GEOFABRIC MATERIAL AS SEPERATION BETWEEN GRANULAR BACKFILL (GRAVEL) AND NATURAL BACKFILL MATERIAL. USE BIDIM A24 OR APPROVED EQUIVALENT.



TYPICAL FOOTING STEP DETAIL

SCALE 1:20

0 400 800 1200 1600 2000mm
400 200
SCALE 1:20

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
01	ISSUED FOR SSDA APPROVAL	MB	FZ	01.02.2024

Client: GREATER SYDNEY PARKLANDS TRUST
Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

DRAWING TO BE PRINTED IN COLOUR

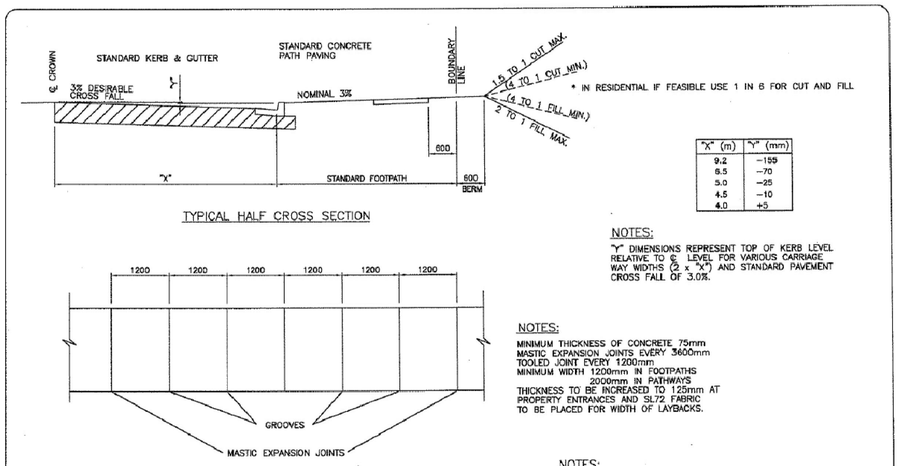
Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title: EARLY SUBDIVISION WORKS
RETAINING WALL TYPICAL DETAILS

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzler	A.Francis	AS NOTED

Drawing number: 230804_DA_C310
Revision: 04



TYPICAL HALF CROSS SECTION

"X" (m)	"Y" (mm)
9.2	−155
8.5	−70
5.0	−25
4.5	−10
4.0	+5

NOTES:

"Y" DIMENSIONS REPRESENT TOP OF KERB LEVEL RELATIVE TO ℄ LEVEL FOR VARIOUS CARRIAGE WAY WIDTHS (2 x "X") AND STANDARD PAVEMENT CROSS FALL OF 3.0%.

PATH PAVING

NOTES:

MINIMUM THICKNESS OF CONCRETE 75mm
MASTIC EXPANSION JOINTS EVERY 3600mm
TOOLED JOINT EVERY 1200mm
MINIMUM WIDTH 1200mm IN FOOTPATHS
2000mm IN PATHWAYS
THICKNESS TO BE INCREASED TO 125mm AT PROPERTY ENTRANCES AND SL72 FABRIC TO BE PLACED FOR WIDTH OF LAYBACKS.

NOTES:

1. CONCRETE STRENGTH – STRENGTH OF ALL CONCRETE USED SHALL BE 25MPa AFTER 28 DAYS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

No.	REVISION	DATE	INIT'S

SCALE: N.T.S. DATUM: N.A. ACAD FILE: P:\ACAD\STD-DWG\S-1

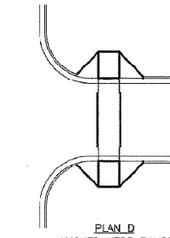
RECOMMENDED FOR APPROVAL: DESIGN ENGINEER DATE:
APPROVED: MAN.– ENGINEERING SERVICES. DATE:

DESIGN: DRAWN: K.L.S. 02.01

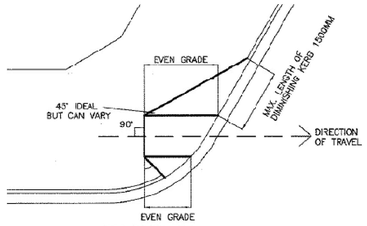
FAIRFIELD CITY COUNCIL

TYPICAL CROSS SECTION FOR SUBDIVISION ROADS — S–1

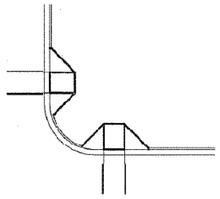
PLAN AND SECTION — SHEET NO. 1 OF 2 — REV'N NO.



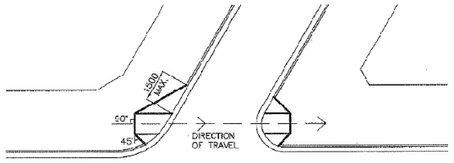
PLAN D
ALIGNED KERB RAMPS
SEE NOTE 4



KERB RAMPS FOR OBTUSE INTERSECTION



PLAN E
ADJACENT CROSSINGS
SEE NOTE 7



KERB RAMPS FOR ACUTE / OBTUSE INTERSECTION

No.	REVISION	DATE	INIT'S
A	SHARED PEDESTRIAN/BICYCLE NOTE ADDED	09.02	K.L.S.
B	RTA AMENDMENT REQUESTED – REDRAWN	02.04	K.L.S.

SCALE: N.T.S. DATUM: N.A. ACAD FILE: P:\CSD\ACAD\STD-DWG\S-8

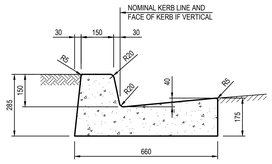
RECOMMENDED FOR APPROVAL: DESIGN ENG. DATE:
APPROVED: MAN – ENGINEERING SERVICES DATE:

DESIGN: DRAWN: K.L.S. 06.04.00

FAIRFIELD CITY COUNCIL

STANDARD KERB RAMP IN ROADWAYS — S–8

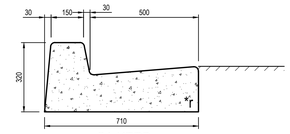
TYPICAL APPLICATION OF KERB RAMPS AT INTERSECTION — SHEET NO. 2 OF 2 — REV'N NO. B



150mm KERB & GUTTER (K&G)

SCALE 1:10

NOTE:
CONFIRM DIMENSIONS AND DETAILS WITH LOCAL AUTHORITY



SA KERB

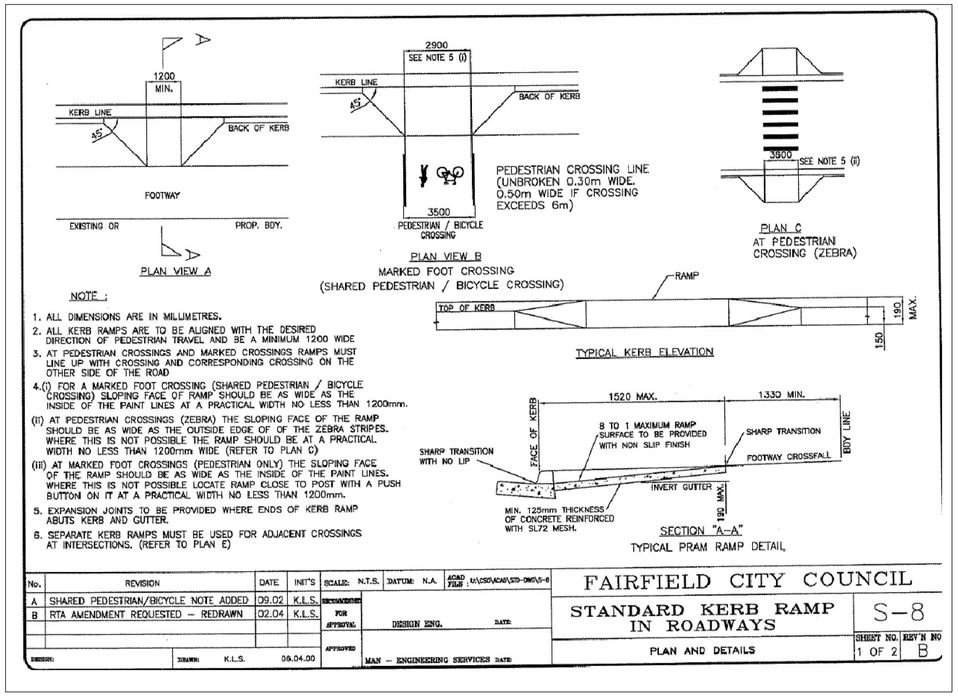
SCALE 1:10

BARRIER KERB AND GUTTER ADJACENT TO FOOTWAY

KERBING NOTES:

INCLUDES ALL KERBS, GUTTERS, DISH DRAINS, CROSSING AND EDGES.

1. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSING TO BE CONSTRUCTED ON MINIMUM 75mm GRANULAR BASE COURSE COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
2. EXPANSION JOINTS (EJ) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILTER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATION IN KERBS.
3. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
4. BROAMED FINISHED TO ALL RAMPED AND VEHICULAR CROSSINGS, ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
5. IN THE REPLACEMENT OF KERBS
EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm FROM LIP OF GUTTER. UPON COMPLETION OF NEW KERBS, NEW BASE COURSE AND SURFACE IS TO BE LAID 900mm WIDE TO MATCH EXISTING MATERIALS AND THICKNESS. EXISTING ALLOTMENT DRAINAGE PIPE ARE TO BE BUILT INTO NEW KERB WITH A 100mm DIA HOLE.
EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.



NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL KERB RAMPS ARE TO BE ALIGNED WITH THE DESIRED DIRECTION OF PEDESTRIAN TRAVEL AND BE A MINIMUM 1200 WIDE
3. AT PEDESTRIAN CROSSINGS AND MARKED CROSSINGS RAMPS MUST LINE UP WITH CROSSING AND CORRESPONDING CROSSING ON THE OTHER SIDE OF THE ROAD
4. (i) FOR A MARKED FOOT CROSSING (SHARED PEDESTRIAN / BICYCLE CROSSING) SLOPING FACE OF RAMP SHOULD BE AS WIDE AS THE INSIDE OF THE PAINT LINES AT A PRACTICAL WIDTH NO LESS THAN 1200mm.
(ii) AT PEDESTRIAN CROSSINGS (ZEBRA) THE SLOPING FACE OF THE RAMP SHOULD BE AS WIDE AS THE OUTSIDE EDGE OF OF THE ZEBRA STRIPES. WHERE THIS IS NOT POSSIBLE THE RAMP SHOULD BE AT A PRACTICAL WIDTH NO LESS THAN 1200mm WIDE (REFER TO PLAN C)
(iii) AT MARKED FOOT CROSSINGS (PEDESTRIAN ONLY) THE SLOPING FACE OF THE RAMP SHOULD BE AS WIDE AS THE INSIDE OF THE PAINT LINES. WHERE THIS IS NOT POSSIBLE LOCATE RAMP CLOSE TO POST WITH A PUSH BUTTON ON IT AT A PRACTICAL WIDTH NO LESS THAN 1200mm.
5. EXPANSION JOINTS TO BE PROVIDED WHERE ENDS OF KERB RAMP ABUTS KERB AND GUTTER.
6. SEPARATE KERB RAMPS MUST BE USED FOR ADJACENT CROSSINGS AT INTERSECTIONS. (REFER TO PLAN E)

No.	REVISION	DATE	INIT'S
A	SHARED PEDESTRIAN/BICYCLE NOTE ADDED	09.02	K.L.S.
B	RTA AMENDMENT REQUESTED – REDRAWN	02.04	K.L.S.

SCALE: N.T.S. DATUM: N.A. ACAD FILE: P:\CSD\ACAD\STD-DWG\S-8

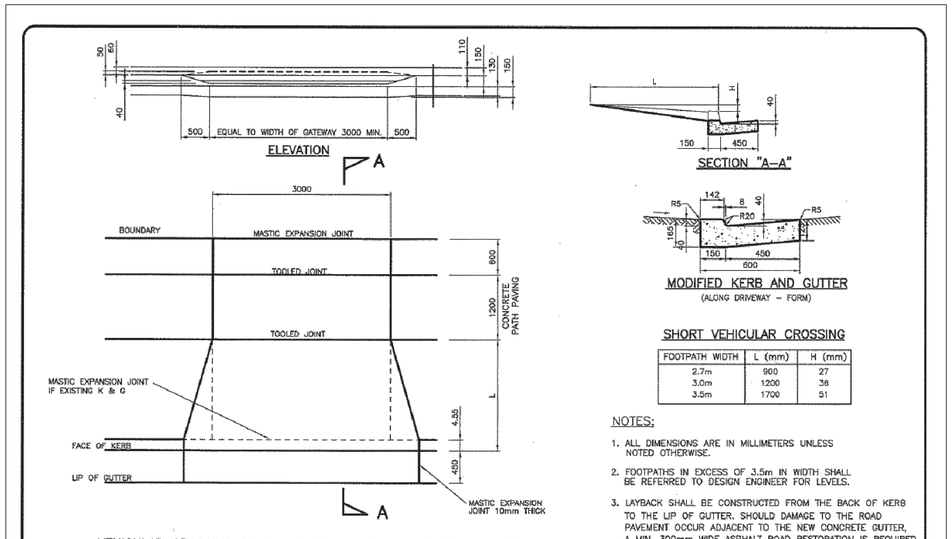
RECOMMENDED FOR APPROVAL: DESIGN ENG. DATE:
APPROVED: MAN – ENGINEERING SERVICES DATE:

DESIGN: DRAWN: K.L.S. 09.04.00

FAIRFIELD CITY COUNCIL

STANDARD KERB RAMP IN ROADWAYS — S–8

PLAN AND DETAILS — SHEET NO. 1 OF 2 — REV'N NO. B



SHORT VEHICULAR CROSSING

FOOTPATH WIDTH	L (mm)	H (mm)
2.7m	900	27
3.0m	1200	36
3.5m	1700	51

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. FOOTPATHS IN EXCESS OF 3.5m IN WIDTH SHALL BE REFERRED TO DESIGN ENGINEER FOR LEVELS.
3. LAYBACK SHALL BE CONSTRUCTED FROM THE BACK OF KERB TO THE LIP OF GUTTER. SHOULD DAMAGE TO THE ROAD PAVEMENT OCCUR ADJACENT TO THE NEW CONCRETE GUTTER, A MIN. 300mm WIDE ASPHALT ROAD RESTORATION IS REQUIRED

No.	REVISION	DATE	INIT'S

SCALE: N.T.S. DATUM: N.A. ACAD FILE: P:\ACAD\STD-DWG\S-1

RECOMMENDED FOR APPROVAL: DESIGN ENGINEER DATE:
APPROVED: MAN.– ENGINEERING SERVICES. DATE:

DESIGN: DRAWN: K.L.S. 02.01

FAIRFIELD CITY COUNCIL

TYPICAL DRIVEWAY — S–1

PLAN AND SECTIONS — SHEET NO. 2 OF 2 — REV'N NO.

0 200 400 600 800 1000mm
200 100
SCALE 1:10

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MP	FZ	12.02.2024
01	ISSUED FOR SSDA APPROVAL	MB	FZ	01.02.2024

Client: GREATER SYDNEY PARKLANDS TRUST
Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

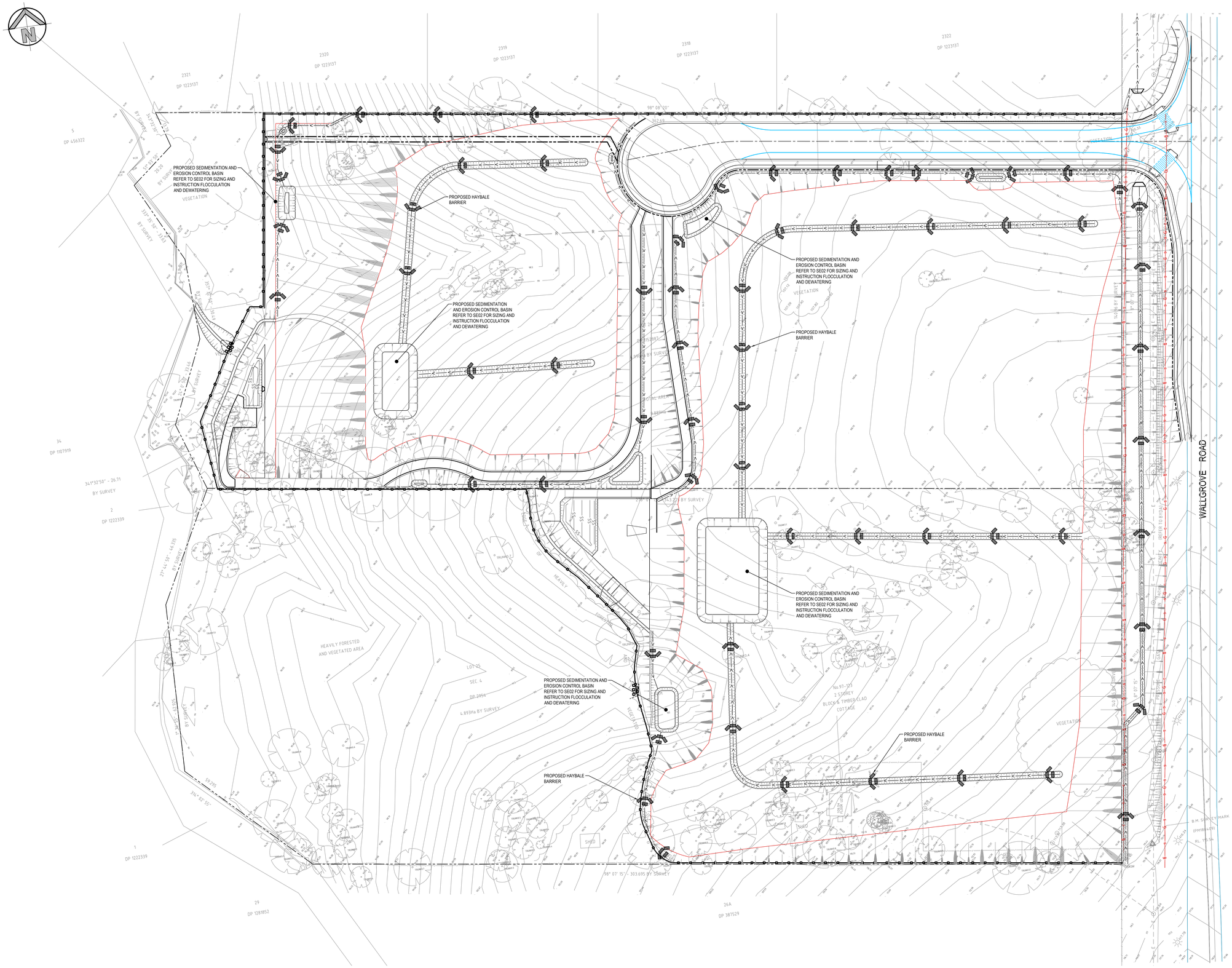
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title: EARLY SUBDIVISION WORKS
KERB AND LAYBACK STANDARD DETAILS

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Webster	A.Francis	AS NOTED

Drawing number: 230804_DA_C510 — Revision: 04



LEGEND

- SITE BOUNDARY
- PROPOSED SEDIMENTATION FENCE
- CD — PROPOSED CATCH DIVERSION DRAIN
- TM — PROPOSED TRAFFIC MANOEUVRING
- PROPOSED HAYBALE FILTER OR ROCK CHECK DAM.
- PROPOSED STOCKPILE LOCATION
- PROPOSED VEHICLE SHAKER GRID
- PROPOSED STABILISED SITE ACCESS
- PROPOSED MESH AND GRAVEL INLET FILTER
- PROPOSED GEO-TEXTILE INLET FILTER
- PROPOSED SEDIMENT BASIN

SEDIMENT & EROSION CONTROL NOTES

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH CITY OF FAIRFIELD COUNCIL'S SPECIFICATIONS AND LANDCOM'S "SOIL AND CONSTRUCTION" MANUAL.
- ALL PERIMETER & SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTH WORKS AND/OR CLEARING.
- THE SEDIMENT & EROSION CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO PREPARE THEIR OWN SEDIMENT AND EROSION CONTROL PLAN WHICH SUITS THE DESIGNED CONSTRUCTION STAGING.
- FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS & SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
- ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR REUSE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND STRAW MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION U.N.O. BY LANDSCAPE ARCHITECTS.
- UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
- EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.

SEDIMENT AND EROSION CONTROL PLAN

SCALE: 1:500

0 10 20 30 40 50m
10 8 6 4 2
SCALE 1:500

ISSUED FOR APPROVAL

SURVEY INFORMATION

SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613; RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	01.02.2024
01	ISSUED FOR CO-ORDINATION	MB	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST
Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

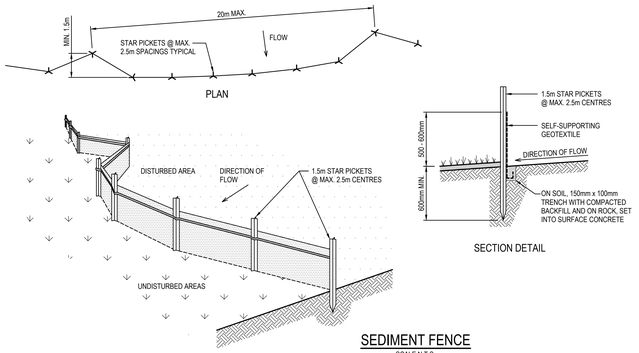
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title: EARLY SUBDIVISION WORKS
SEDIMENT AND EROSION CONTROL PLAN

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	1:500

Drawing number: 230804_DA_SE01
Revision: 04

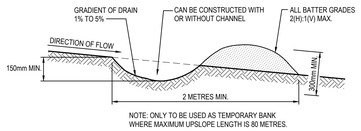


SEDIMENT FENCE

SCALE N.T.S.

SEDIMENT FENCE CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



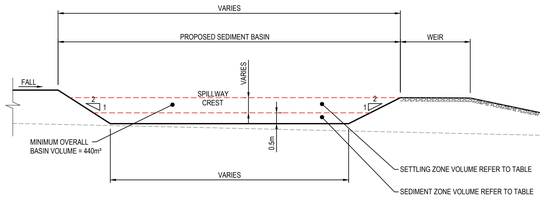
NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

EARTH BANK CONSTRUCTION NOTES:

1. BUILD WITH GRADIENTS BETWEEN 1% AND 5%.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS-SECTIONS, NOT "V" SHAPED.
5. ENSURE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

EARTH BANK (LOW FLOW)

SCALE N.T.S.



TYPICAL SECTION

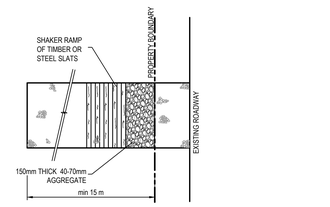
SEDIMENTATION BASIN

N.T.S.

CONSTRUCTION SEQUENCE

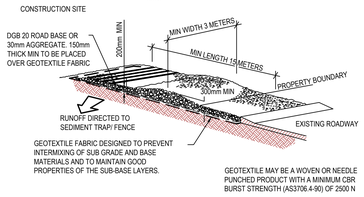
WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:

1. INSTALL SEDIMENT FENCING AND CUT DRAINS TO MEET THE REQUIREMENTS OF THE SEDIMENT AND EROSION CONTROL PLAN. WASTE COLLECTION BINS SHALL BE INSTALLED ADJACENT TO SITE OFFICE.
2. CONSTRUCT STABILISED SITE ACCESS IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S REQUIREMENTS.
3. REDIRECT CLEAN WATER AROUND THE CONSTRUCTION SITE.
4. INSTALL SEDIMENT CONTROL PROTECTION MEASURES AT ALL NATURAL AND MAN-MADE DRAINAGE STRUCTURES. MAINTAIN UNTIL ALL THE DISTURBED AREAS ARE STABILISED.
5. CLEAR AND STRIP THE WORK AREAS. MINIMISE THE DAMAGE TO THE GRASS AND LOW GROUND COVER OF NON-DISTURBED AREAS.
6. ANY DISTURBED AREAS, OTHER THAN BUILDING PAD AREAS, SHALL IMMEDIATELY BE COVERED WITH SITE TOPSOIL WITHIN 7 DAYS OF CLEARING. BUILDING PAD AREAS SHALL BE COVERED WITH BITUMEN EMULSION AS SPECIFIED.
7. APPLY PERMANENT STABILISATION TO SITE (LANDSCAPING).



PLAN
STABILISED SITE ACCESS WITH SHAKER RAMP

N.T.S.

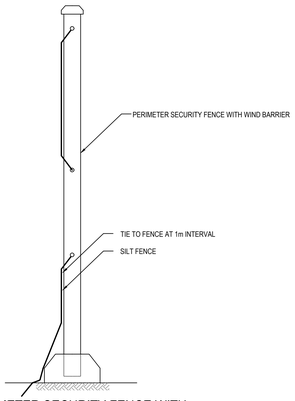


STABILISED SITE ACCESS WITH SHAKER RAMP

N.T.S.

NOTES:

1. THIS DEVICE IS TO BE LOCATED AT ALL EXITS FROM CONSTRUCTION SITE.
2. THIS DEVICE IS TO BE REGULARLY CLEANED OF DEPOSITED MATERIAL SO AS TO MAINTAIN A 50mm DEEP SPACE BETWEEN PLANKS.
3. ANY UNSEALED ROAD BETWEEN THIS DEVICE AND NEAREST ROADWAY IS TO BE TOPPED WITH 100mm THICK 40-70mm SIZE AGGREGATE.
4. ALTERNATIVELY, THREE(3) PRECAST CONCRETE CATTLE GRIDS (AS MANUFACTURED BY 'HUMES CONCRETE MAY BE USED. 1, 2 & 3 ABOVE ALSO APPLY.



PERIMETER SECURITY FENCE WITH WIND BARRIER & SILT FENCE

N.T.S.

STOCKPILE CONSTRUCTION NOTES:

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

STOCKPILES

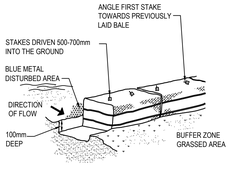
SCALE N.T.S.

MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:

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

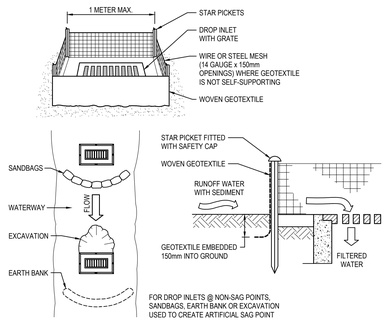
MESH & GRAVEL INLET FILTER

SCALE N.T.S.



HAYBALE BARRIERS

N.T.S.



GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE.
2. PICKET SPACING TO BE MAXIMUM 1.0m.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER

SCALE N.T.S.

SEDIMENT BASIN SIZING

1. THE SEDIMENT BASIN SHALL BE CONSTRUCTED ON A RATE PER HECTARE BASIS AND HAS BEEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE LANDCOM MANUAL "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", FOR SEDIMENTATION **TYPE D** SOILS. THE DISTURBED AREA WITHIN THIS CATCHMENT AT ANY ONE TIME SHOULD BE LIMITED TO AN AREA FOR WHICH EACH SEDIMENT BASIN CAN HANDLE. EACH BASIN SHALL BE SIZED IN ACCORDANCE WITH THE TABLE BELOW.

SEDIMENT BASIN SIZING TYPE D SOILS	
VOLUMETRIC RUNOFF COEFFICIENT, CV	0.51 (APPENDIX F - TABLE F2)
85TH PERCENTILE 5 DAY TOTAL RAINFALL DEPTH, R	32.2 mm
CATCHMENT AREA, A	1 Ha (UNIT AREA)
SETTLING ZONE VOLUME (PER HECTARE) 10 CV A R	164.22 m³
DISTURBED CATCHMENT AREA	1 Ha (UNIT AREA)
R K LS P C	110.87m³
SEDIMENT ZONE VOLUME (0.17 A (R K LS P C)/1.3	14.5m³ < 50% SETTLING VOL=82.11 m³
TOTAL SEDIMENT BASIN VOLUME REQUIRED :	246.33 m³/Ha

* (LANDCOM MANAGING URBAN STORMWATER MANUAL REFERENCE)

2. THE FOLLOWING DESIGN PARAMETERS HAVE BEEN ASSESSED FOR THE SITE:

CONSTRAINT	VALUE	(SOURCE)*
RAINFALL EROSIVITY (R-FACTOR)	2350	APPENDIX B
LENGTH/SLOPE GRADIENT FACTOR, LS	0.955	APPENDIX A - TABLE A1
SOIL ERODIBILITY (K-FACTOR)	0.038	(TABLE C20)
EROSION CONTROL PRACTICE FACTOR (P-FACTOR)	1.3 (COMPACTED)	APPENDIX A - TABLE A2
COVER FACTOR (C-FACTOR)	1.0 (DURING EARTHWORKS)	APPENDIX A - FIGURE A5
CALCULATED SOIL LOSS, A (RUSLE EQUATION)	110.87t/Ha/YR	A = R K LS P C
SOIL HYDROLOGIC GROUP	GROUP C	APPENDIX C TABLE 20
SEDIMENT TYPE	TYPE D	APPENDIX C TABLE 4
85TH PERCENTILE 5-DAY RAINFALL EVENT	32.2mm (BLACKTOWN)	TABLE 6.3A

* (LANDCOM MANAGING URBAN STORMWATER MANUAL REFERENCE)

* SIZING TO BE UPDATE BASED ON DETAILED DESIGN

BASIN MANAGEMENT

1. THE CAPTURED STORMWATER IN THE SETTLING ZONE SHOULD BE DRAINED TO MEET THE MINIMUM STORAGE CAPACITY REQUIRED WITHIN A FIVE (5) DAY PERIOD FOLLOWING RAINFALL, PROVIDED THE ACCEPTABLE WATER QUALITY (NFR) AND TURBIDITY HAVE BEEN ACHIEVED.
2. CHEMICAL FLOCCULENT SUCH AS GYPSUM MAY BE DOSED TO AID SETTLING WITHIN 24 HOURS OF CONCLUSION OF EACH STORM. THE APPLIED DOSING RATES SHOULD ACHIEVE THE TARGET QUALITY WITHIN 36 TO 72 HOURS OF THE STORM EVENT.
3. INSPECT THE SEDIMENT BASINS AFTER EACH RAINFALL EVENT AND/OR WEEKLY. ENSURE THAT ALL SEDIMENT IS REMOVED ONCE THE SEDIMENT STORAGE ZONE IS FULL (REFER TO PEGS INSTALLED IN BASINS IN ACCORDANCE WITH THE SWMP). ENSURE THAT OUTLET AND EMERGENCY SPILLWAY WORKS ARE MAINTAINED IN A FULLY OPERATIONAL CONDITION AT ALL TIMES.

SOWING SEASON	SEED MIX
AUTUMN/WINTER	OATS@40KG/Ha + JAPANESE MILLET@10kg/Ha
SPRING/SUMMER	OATS@20kg/Ha + JAPANESE MILLET@20kg/Ha

NOTE : THESE PLANT SPECIES ARE FOR TEMPORARY REVEGETATION ONLY. THEY WILL ONLY PROVIDE PROTECTION FROM EROSION FOR SIX MONTHS. WHERE THE PADS ARE TO BE LEFT UNDEVELOPED FOR A LONGER PERIOD, THE CONTRACTOR SHALL SEEK ADVICE FROM THE SITE SUPERINTENDENT AS TO MORE APPROPRIATE REVEGETATION METHODS.

REVEGETATION IN ACCORDANCE WITH THE ABOVE TABLE WILL BE ENHANCED BY ADDING LIME AT A RATE OF 4kg/TONNE OF TOPSOIL AND 7.5kg/TONNE OF SUBSOIL.

4. THE LONG TERM GROUND COVER FACTORS FOR THE CONSTRUCTION WORKS IS NOT TO EXCEED THE FOLLOWING LIMITS:

LAND	MAXIMUM C-FACTOR	REMARKS
WATERWAYS AND OTHER AREAS OF CONCENTRATED FLOWS, POST CONSTRUCTION	0.05	APPLIES AFTER TEN WORKING DAYS OF COMPLETION OF FORMATION AND BEFORE CONCENTRATED FLOWS ARE APPLIED. FOOT AND VEHICULAR TRAFFIC IS PROHIBITED IN THIS AREA AND 70% GROUND COVER IS REQUIRED.
STOCKPILES, POST CONSTRUCTION	0.10	APPLIES AFTER TEN WORKING DAYS FROM COMPLETION OF FORMATION. 60% GROUND COVER IS REQUIRED.
ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION.	0.15	APPLIES AFTER 20 DAYS OF INACTIVITY, EVEN THOUGH WORKS MAY BE INCOMPLETE. 50% GROUND COVER IS REQUIRED.

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	DC	FZ	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	01.02.2024
01	ISSUED FOR CO-ORDINATION	MB	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST

Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

DRAWING TO BE PRINTED IN COLOUR

Suite 2.01
828 Pacific Highway
Gordon NSW 2072

Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

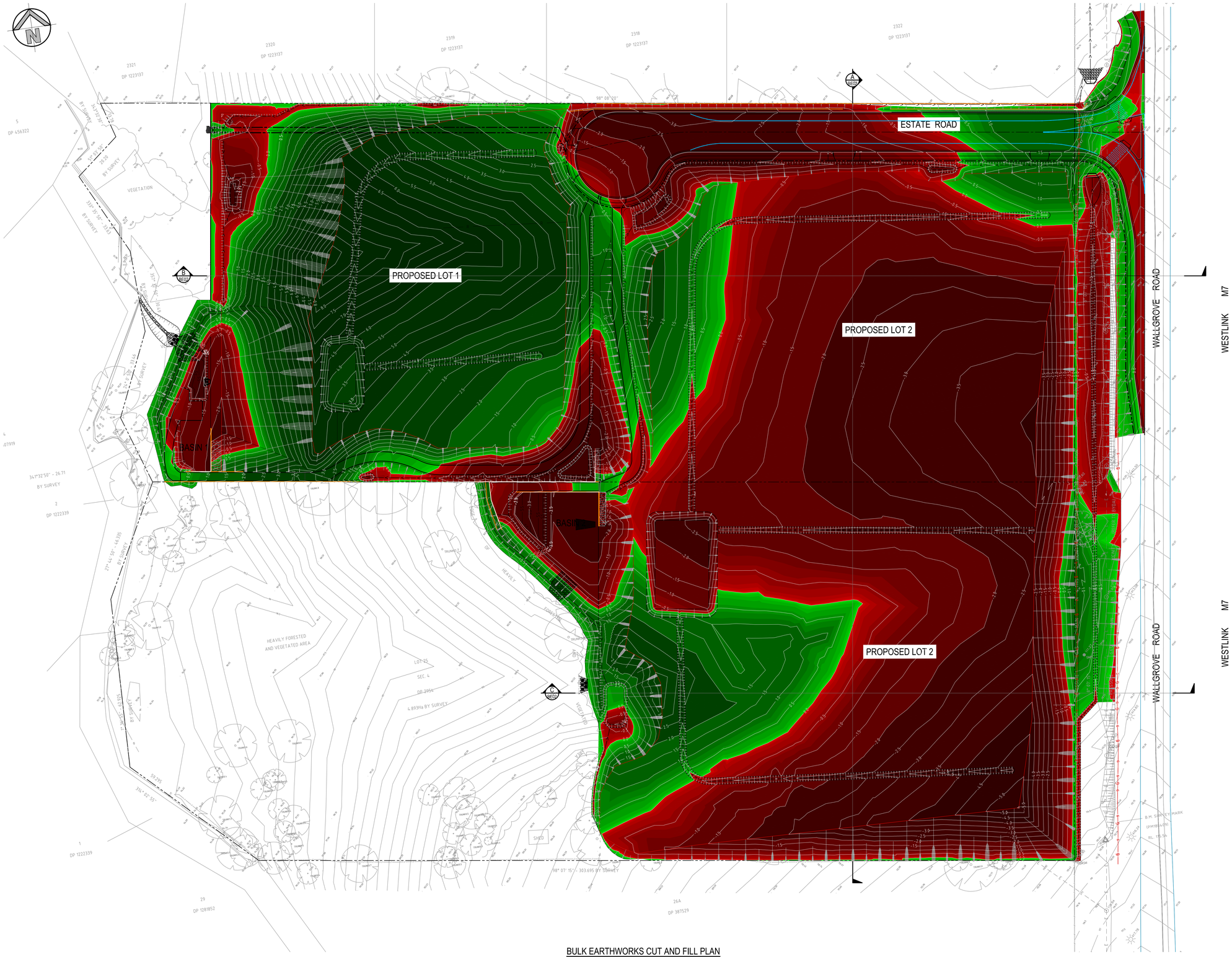
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title: EARLY SUBDIVISION WORKS
SEDIMENT AND EROSION CONTROL DETAILS

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Weitzlar	A.Francis	N.T.S.

Drawing number: 230804_DA_SE02
Revision: 04



BULK EARTHWORKS CUT AND FILL PLAN

SCALE: 1:500

LEGEND

- EXISTING BOUNDARY
- 0.5 DEPTH CONTOUR FOR FILL
- -0.5 DEPTH CONTOUR FOR CUT
- PROPOSED BATTER LINE
- PROPOSED RETAINING WALL

DEPTH RANGE Lower_value		Upper_value	Colour
-6	to	-4	Meters
-4	to	-2	Meters
-2	to	-1	Meters
-1	to	-.8	Meters
-.8	to	-.6	Meters
-.6	to	-.4	Meters
-.4	to	-.2	Meters
-.2	to	-.1	Meters
-.1	to	-.05	Meters
-.05	to	.0	Meters
.0	to	.05	Meters
.05	to	.1	Meters
.1	to	.2	Meters
.2	to	.4	Meters
.4	to	.6	Meters
.6	to	.8	Meters
.8	to	1	Meters
1	to	2	Meters
2	to	4	Meters
4	to	6	Meters

NOTES:

CONTOURS SHOW LEVEL DIFFERENCE BETWEEN STRIPPED "100mm" EXISTING SURFACE LEVELS AND BULK EARTHWORKS LEVELS

EARTHWORKS QUANTITIES

(APPROXIMATE ONLY)

NOT TO BE USED FOR CONTRACTUAL PURPOSES. TENDERERS TO DETERMINE VOLUMES USING THEIR OWN METHOD OF CALCULATION.

- EARTHWORKS QUANTITIES -	
TOTAL AREA (7.88 ha)	
CUT	78080m³
FILL	77870m³
EXCESS OF CUT	210m³
TOPSOIL STRIPPING "100mm" OF 7880m² NOT INCLUDED IN CALCULATION	
EXCAVATION FOR SERVICE TRENCHES NOT INCLUDED IN CALCULATION	
EXCAVATION AND BACKFILL FOR RETAINING WALLS INCLUDED IN CALCULATION	
EXCAVATION FOR BOX CULVERTS UNDER ROAD NOT INCLUDED IN CALCULATION	

PAVEMENT THICKNESS "INCLUDING BEDDING THICKNESS"		
ROAD PAVEMENT	470	mm
LANDSCAPE	150	mm
FOOTPATH	150	mm
HEAVY DUTY CROSS OVER	350	mm
CONCRETE BASIN RAMP	250	mm
BIO BASIN	850	mm

0 10 20 30 40 50m

10 8 6 4 2

SCALE 1:500

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	LC	NW	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	01.02.2024
01	ISSUED FOR CO-ORDINATION	LC	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST

Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

Suite 2.01
828 Pacific Highway
Gordon NSW 2072

Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

henry&hymas

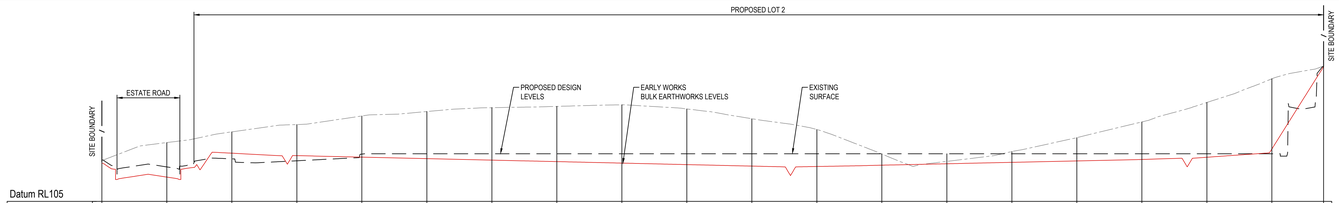
Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title: EARLY SUBDIVISION WORKS
BULK EARTHWORKS - CUT AND FILL PLAN

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	1:500

Drawing number: 230804_DA_BE01

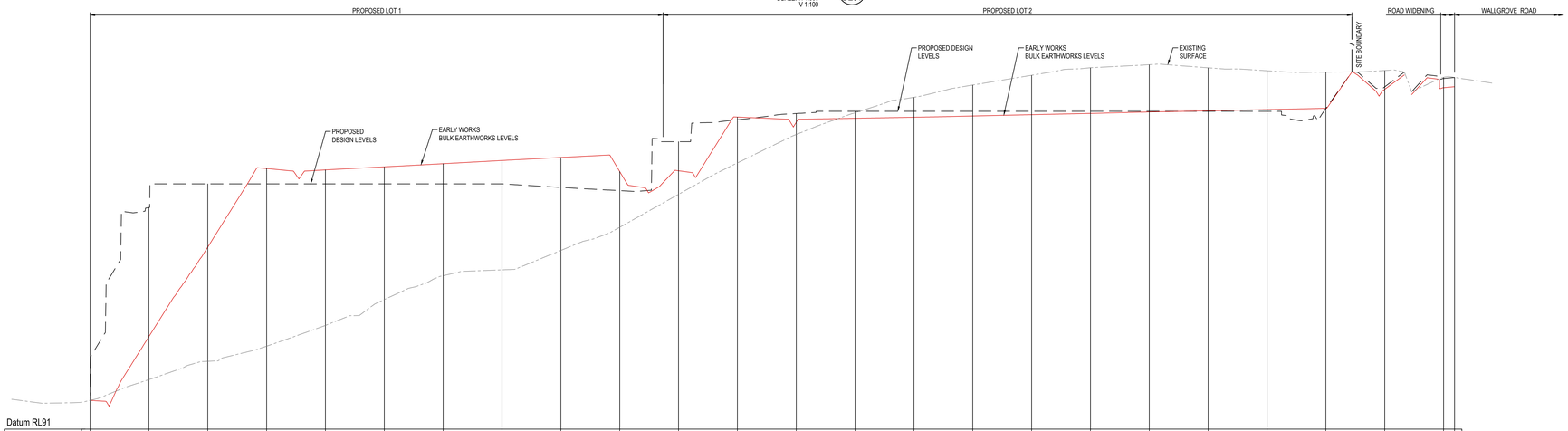
Revision: 04



Datum RL105

BE DESIGN LEVELS	106.765	106.122	107.224	107.112	107.043	106.975	106.906	106.837	106.768	106.698	106.629	106.611	106.672	106.737	106.803	106.868	106.936	107.039	107.423	111.219
DESIGN LEVELS	106.915	106.592	106.965	106.875	107.182	107.200	107.200	107.200	107.200	107.200	107.200	107.200	107.200	107.200	107.200	107.200	107.200	107.200	107.200	111.219
EXISTING LEVELS		107.716	108.210	108.549	108.843	109.148	109.326	109.386	109.459	109.268	108.815	108.320	107.185	106.847	107.392	107.844	108.668	109.568	110.659	111.842
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	240.000	255.000	270.000	281.937

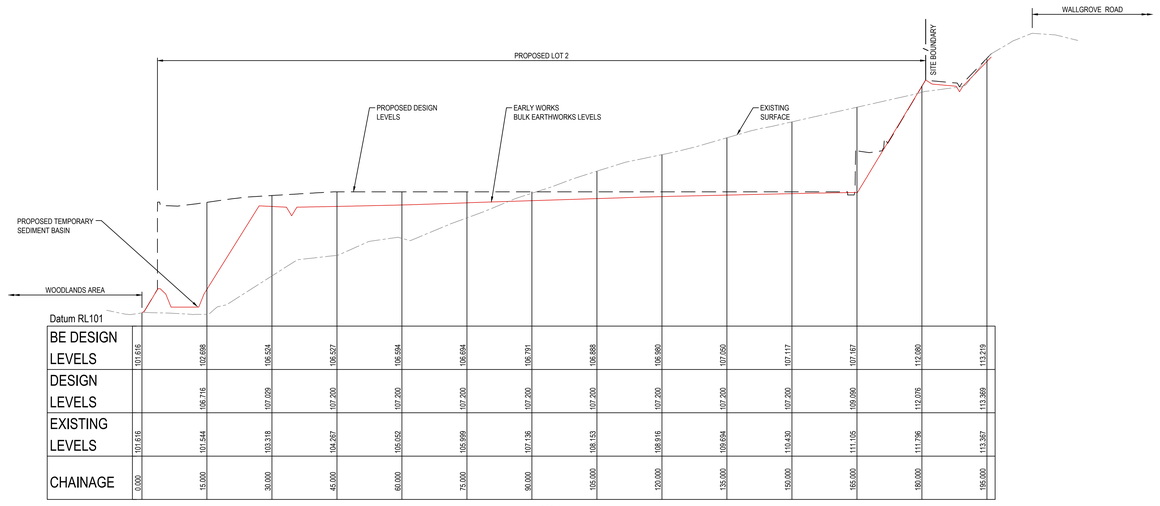
SECTION A (BE01)
SCALE: H 1:500 V 1:100



Datum RL91

BE DESIGN LEVELS	90.463	96.176	100.277	104.981	104.211	104.367	104.529	104.692	104.847	104.133	104.169	105.908	106.642	106.844	106.899	106.961	107.028	107.094	107.164	107.225	107.286	107.364	108.323	108.403	108.434
DESIGN LEVELS	92.463	102.294	103.500	103.500	103.500	103.500	103.500	103.500	103.321	103.198	105.448	106.769	107.087	107.200	107.200	107.200	107.200	107.200	107.200	107.200	107.200	107.347	108.448	108.873	108.924
EXISTING LEVELS	92.463	93.923	94.455	95.227	96.286	97.603	98.820	99.117	100.107	101.286	102.968	104.570	106.018	107.127	107.916	108.540	109.038	109.422	109.577	109.419	109.269	109.196	109.281	108.934	108.930
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	240.000	255.000	270.000	285.000	300.000	315.000	330.000	345.000	347.796

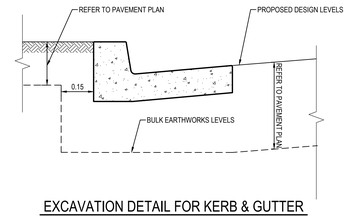
SECTION B (BE01)
SCALE: H 1:500 V 1:100



Datum RL101

BE DESIGN LEVELS	101.616	102.888	106.624	106.527	106.594	106.694	106.791	106.888	106.990	107.050	107.117	107.167	112.080	113.219
DESIGN LEVELS		106.716	107.009	107.200	107.200	107.200	107.200	107.200	107.200	107.200	107.200	109.090	112.076	113.369
EXISTING LEVELS	101.616	101.544	103.318	104.267	105.052	105.999	107.136	108.153	108.916	109.684	110.430	111.105	111.796	113.367
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000

SECTION C (BE01)
SCALE: H 1:500 V 1:100



EXCAVATION DETAIL FOR KERB & GUTTER
SCALE N.T.S

0 2 4 6 8 10m
SCALE 1:100

0 10 20 30 40 50m
SCALE 1:500

ISSUED FOR APPROVAL

SURVEY INFORMATION
SURVEYED BY
BOXALL SURVEYORS
DATUM: A.H.D.
ORIGIN OF LEVELS: SSM 26613, RL118.6

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR SSDA APPROVAL	DC	FZ	18.09.2025
03	ISSUED FOR SSDA APPROVAL	LC	NW	24.04.2025
02	ISSUED FOR SSDA APPROVAL	MB	FZ	01.02.2024
01	ISSUED FOR CO-ORDINATION	LC	FZ	17.01.2024

Client: GREATER SYDNEY PARKLANDS TRUST
Architect: nettletontribe partnership

This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.

DRAWING TO BE PRINTED IN COLOUR

Suite 2.01
828 Pacific Highway
Gordon NSW 2072
Telephone +61 2 9417 8400
Facsimile +61 2 9417 8337
Email email@hhconsult.com.au
Web www.henryandhymas.com.au
henry&hymas

Project: PROPOSED WALLGROVE BUSINESS HUB
97-151 WALLGROVE ROAD, CECIL PARK NSW

Title: EARLY SUBDIVISION WORKS
BULK EARTHWORKS - SITE SECTIONS

Drawn	Designed	Date
M.Barrozo	F.Zhou	December 2023
Checked	Approved	Scale @A0
N. Wetzlar	A.Francis	AS SHOWN

Drawing number: 230804_DA_BE02
Revision: 04

Appendix B: Email summarising Ecoplanning Review of Civil Engineering Drawings – Ecoplanning.

henry&hymas

From: Erin Leslie <Erin.Leslie@ecoplanning.com.au>
Sent: Friday, 12 September 2025 12:48 PM
To: Rod Pascoe <rod.pascoe@gsp.nsw.gov.au>
Cc: Robert Humphries <Robert.Humphries@ecoplanning.com.au>
Subject: RE: Wallgrove Business Hub (SSD-50972718) – Submissions Report

Hi Rod,

Thanks for sending the updated H+H material. Based on a desktop review of H+H's note and drawing C101 provided 10 September 2025 (and the Boxall Survey top-of-bank shown thereon), my understanding is summarized below.

I assume the H+H letter this will be drafted following receipt of my review.

What DCCEEW requested (Section 3.0 of OUT24/14373 dated 17 September 2024):

- Show that setbacks are measured from top of bank and that the design meets the riparian buffer requirements under the *Guidelines for Controlled Activities on Waterfront Land* (the Guidelines).
- Relocate the western fence if it sits within/adjacent to the watercourse (noting this reference comes from the email thread – I haven't located a direct reference to fencing in OUT24/14373).

What H+H set out in their emails and updated drawing:

- The watercourse is 2nd-order.
- Top of bank (ToB) is shown on the Boxall Survey and used on C101.
- A 20 m VRZ (each side) is applied (inner 0–10 m; outer 10–20 m), and the detention basin is located only within the outer 50% VRZ.
- They consider this consistent with the guidelines.

My review (desktop, subject to assumptions and limitations below):

- On the assumption that the offsets are correctly measured from surveyed ToB by Boxall (original survey not sighted by me) and that channel width is excluded (per the Guidelines), the approach of applying a 20 m VRZ each side (40 m total RC + channel width) is consistent with the Guidelines for Controlled Activities on Waterfront Land.
- On that basis, a detention basin only within the outer 50% VRZ is an acceptable land use in principle under the riparian corridor matrix.
- To address DCCEEW's Section 3.0 request, you have clearly shown on C101:
  - Dimensioning of inner (0–10 m) and outer (10–20 m) VRZ bands.
- You may also wish to:
  - Add a 40 m buffer line from ToB (as suggested in Tom's email of 19 August); and
  - Confirm on C101 that the western fence is outside the 40 m RC envelope (I couldn't see any mapped fence)

Assumptions & limitations:

- This advice is limited to ecological consistency with the Guidelines based on information supplied (H+H emails, C101, and references to the Boxall Survey).
- The stream order (2nd order) has been identified at a desktop level using Strahler classification.
- I have not independently verified TOB survey accuracy, hydrology, hydraulic capacity, flood planning levels, or structural design – these are beyond my scope of engagement and expertise, but I have no reason to doubt the accuracy of the information provided.
- Final design responsibility rests with the civil engineers, and final determination rests with the consent/approval authorities.

Subject to the above annotations being added to the plans, I'm comfortable confirming the ecological consistency of H+H's approach with the controlled-activities guidance cited by DCCEEW Section 3.0.

Please let me know if this addresses what you were asking.

Once this item is closed out, I'll prepare and issue an invoice for the hours spent.

I will be in the field next week with very limited reception, but can address any further questions on my return.

Thanks, regards,

Erin Leslie (she/her)
Consultant Ecologist
BE (Hons), GradCert EnvMgt&Sust
M: 0435 254 384
E: erin.leslie@ecoplanning.com.au
428 Princes Highway, Woonona NSW 2517, Dharawal Country

ecoplanning
ecology | planning | offsets

This email and any attachments are proprietary and confidential and are intended solely for the use of the individual to whom it is addressed. Views expressed are those of the author and do not necessarily represent those of Ecoplanning Pty Ltd. If you have received this email in error, please let u