Sensitivity: General

DRAWING REGISTER - CIVIL

HOUSING DELIVERY SYSTEM - MBU5 7-15 CHURCH STREET, HAMPSTEAD, ASHBURTON - AR109524

Drawing No.	PROJECT VELOCITY	CURRENT REV	DAY MONTH YEAR	11 08 23				
AR109524-CV-001	COVER SHEET	Α		Α				
AR109524-CV-001 AR109524-CV-002	GENERAL CIVIL NOTES	A		A				
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AR109524-CV-101	SITE PLAN SHEET 1							Г
AR109524-CV-102	SITE PLAN SHEET 2							
AR109524-CV-111	CONCEPTUAL SERVICES PLAN SHEET 1	Α		Α				Г
AR109524-CV-112	CONCEPTUAL SERVICES PLAN SHEET 2	Α		Α				
AR109524-CV-121	EXISTING SITE PLAN WITH EROSION & SEDIMENT CONTROL.	Α		Α				
AR109524-CV-131	EARTHWORKS PLAN	Α		Α				
AR109524-CV-205	PROPOSED VESTED WASTEWATER MAIN SHEET 1							
AR109524-CV-206	PROPOSED VESTED WASTEWATER MAIN SHEET 2							
AR109524-CV-501	EROSION & SEDIMENT CONTROL DETAILS	Α		Α				
AR109524-CV-505	PAVEMENT DETAILS							
AR109524-CV-506	KERB & CHANNEL DETAILS							
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AR109524-CV-510	VEHICLE CROSSINGS DETAILS SHEET 1							
AR109524-CV-511	VEHICLE CROSSINGS DETAILS SHEET 2							ш
AR109524-CV-512	MISCELLANEOUS DETAILS							
AR109524-CV-513	SOAKPIT DETAILS							ш
AR109524-CV-515	3 WATERS DETAILS SHEET 1							
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AR109524-CV-518	3 WATERS DETAILS SHEET 4							
AR109524-CV-519	STORMWATER MAIN CONNECTION DETAILS							
AR109524-CV-520	WATER SUPPLY SERVICE CONNECTION DETAILS							
AR109524-CV-521	TRENCH, EMBEDMENT, TRENCH FILL& REINSTATEMENTS DETAIL	S						
AR109524-CV-522	NZBC DETAILS							
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DISTRIBUTION

HOUSING DELIVERY SYSTEM - MBU5 7-15 CHURCH STREET, HAMPSTEAD, ASHBURTON - AR109524

DRAWING REGISTER AND TRANSMITTAL NOTICE

Resource Consent

		1100001100 0011	
C	COMPANY		
C	CHRISTCHURCH CITY COUNCIL	Р	
E	BUILDER	Р	KEY PDFP A1
			A1A1 Hardcopy A3A3 Hardcopy AAA1 and A3 Hardcopy

HOUSING DELIVERY SYSTEM - CHCH MBU1





LOCALITY PLAN

DRAWING LIST					
DRAWING NUMBER	DESCRIPTION				
AR109524-CV-001	COVER SHEET				
AR109524-CV-002	GENERAL CIVIL NOTES				
AR109524-CV-111	CONCEPTUAL SERVICES PLAN SHEET 1				
AR109524-CV-112	CONCEPTUAL SERVICES PLAN SHEET 2				
AR109524-CV-121	EXISTING SITE PLAN WITH EROSION & SEDIMENT CONTROL.				
AR109524-CV-131	EARTHWORKS PLAN				
AR109524-CV-501	EROSION & SEDIMENT CONTROL DETAILS				

CIVIL

3160491

7-15 CHURCH STREET **HAMPSTEAD ASHBURTON**

COVER SHEET

AUGUST 2023









Project Velocity Specifications

1. Datums and Coordinate Systems

- levels are in terms of Lyttelton Vertical Datum 1937(LVD37). Origin of levels: (AC97) RL:108.894m
- coordinates are in terms of NZGD2000 Gawler Circuit 2000. Origin of Coordinates: IT IV DP 16102 (781572.19mN.431806.43mE)

2. Civil Works General

All works shall be in accordance with the New Zealand Building Code (NZBC) and the Ashburton District Council Standard Specifications for (i) Construction of Sewer and Stormwater Pipelines, and the (ii) Construction of Water Supply Pipelines, including the (iii) Water Services Department Standard Details, and (iv) the Roading Standard Drawings (Aoraki Roading Collaboration).

3. Setout

The contractors shall be responsible for setting out the work as shown on the drawings.

It is the contractors responsibility to confirm design positions and levels on site. If any existing positions or levels are found to conflict with the design then the contractor shall provide details to the engineer

4. Existing Services

The contractor shall check territorial authorities and services providers for details and locations of services within and adjacent to the site. The contractor shall locate and protect all existing services

5. Erosion and Sediment control

Erosion and sediment control shall be in accordance with the Canterbury regional Council's Erosion and Sediment Control Toolbox, the ADC Stormwater Bylaw, the specification and the drawings.

6. Earthworks General

The scope for the earthworks include;

- · stripping and disposal of surplus topsoil
- excavation and disposal of unsuitable material as agreed with the engineer
- minor cut to fill works within the proposed extent of works.

The contractor shall be responsible for managing stormwater runoff for the period of the contract term as per the contractors construction management plans. All excavation works are to be carried out in accordance with Worksafe NZ excavation safety good practice guide dated July 2016.

7. Subgrade

The contractor shall be responsible for the protection and care of the subgrade for the works duration and particularly during wet weather

Subgrade testing shall be carried out immediately prior to pavement construction in accordance with the below parameters:

• fine grained material in-situ CBR shall be determined by testing with a dynamic cone (scala) penetrometer to a depth of not less than 1 metre in accordance with NZS 4402 test 6.5.2 at 10m spacings.

The contractor shall not commence the construction of the sub-basecourse layer until the engineer's acceptance of the subgrade is given.

Filling shall be to the following requirements;

• fill material shall be laid and compacted in layers not exceeding 150mm thick;

Minimum CBR of 4% for pavement construction and 7% for vehicle crossings.

• AP65 shall be compacted to a minimum dry density of 98% and the materials Maximum Dry Density (MMD).

10. Drainage and Water Supply

- placement and compaction of all embedment and backfilled layers shall be in layers not exceeding 250mm compacted thickness. Where hand tampers are used, the compacted lift thickness shall not exceed 150mm. backfill shall be AP65.
- during construction, test backfill compaction of every layer at least once in each 10m of trench using a nuclear

o backfill shall comply as follows;

- trafficked and pedestrian areas compacted to a minimum dry density of 98% and the materials Maximum Dry Density (MMD)
- landscape areas (not trafficked) compacted to minimum of 70% of that materials maximum dry density • gravity drainage shall be Hydrostatic Tested with a minimum head of 1.2m at the upper end of the pipe for a minimum of 5 minutes with no drop in water level. No part of the pipeline shall be subjected to a head of water
- greater than 6m for safety reasons. • water supply pipelines shall be tested in accordance with AS/NZS 2566.2 Appendix M8 at a minimum pressure of 200kPa with no drop in pressure
- abandoned services shall be removed in accordance with the ADC Standard Specifications for Construction of Sewer and Stormwater Pipelines.

11. Sub-basecourse Preparation

Should rain fall on the subgrade between the time of initial acceptance and the commencement of sub-basecourse construction, a further inspection of the subgrade surface shall be carried out to confirm that the subgrade is still suitable for sub-basecourse construction to proceed

- Supply, placement and compaction of sub-base material shall be in accordance with NZTA B/2 and NZS 4404
- Sub base shall be AP65.

13. Sub-basecourse Acceptance

The sub-basecourse shall meet the following requirements prior to acceptance;

- acceptance for compaction shall be in accordance with NZTA B/2 and NZS 4404.
- surface shape and tolerances shall comply with the requirements of NZTA B/2 and NZS 4404

Any yielding or otherwise unsatisfactory areas of the sub-basecourse which become evident shall be treated in accordance with the engineer's instructions.

For areas less than 500mm depth one set of testing shall suffice. For areas greater than 500mm two sets of testing shall be undertaken on layers of equal depth.

14. Basecourse Construction

The supply, placing and compaction of the basecourse layers shall be in accordance with NZTA B/2 and NZS 4404. Basecourse shall comply with the NZTA M/4 specification unless otherwise noted on the drawings

15. Basecourse Acceptance

The basecourse shall meet the following requirements prior to acceptance:

- acceptance for compaction shall be in accordance with NZTA B/2 and NZS 4404.
- surface shape and tolerances shall comply with the requirements of NZTA B/2 and NZS 4404.

The contractor shall not commence the construction of the surface layer until the engineer's acceptance of the

16. Asphaltic Concrete

Asphaltic concrete shall be manufactured and installed in accordance with NZTA M/10 and NZS 4404. The finished surface shall be:

- Uniform in texture
- · Contain no segregated areas
- Not pond water

17. Concrete

All concrete shall be in accordance with the requirements of NZBC, NZS 3104, NZS 3109, NZS 3112, NZS 3114.

The finished surface shall be :

- Uniform in texture
- Contain no segregated areas
- Not pond water

18. Asbuilts

Asbuilts shall be marked up copies of the Building Consent drawings.

19. Completion

Completion documents shall include all testing included in the above specifications and asbuilt documentation to the satisfaction of the engineer and in accordance with the contract documents.

The following shall be submitted for final sign off.

- · asbuilt documents
- compaction test results (clegg, Nuclear Density Meter)
- · leakage testing (air testing or hydrostatic testing)
- supplier specifications and warranties (for pumps, tanks, chambers etc)
- construction inspections records including site photos.

The engineer reserves the right to request further documentation to that listed above

20. Inspections

The contractor shall provide the engineer with 72 hours notice prior to an item being ready for inspection.

The following items are to be inspected by the engineer on site

- o excavated subgrade prior to any filling.
- o completion of compaction of each layer of fill material and testing prior to placement of further layers

- o trench excavation prior to laying of bedding materials
- o completed pipework, manholes, chambers and other structures prior to backfilling
- o completion of compaction of backfill and testing

- o inspection of subgrade prior to sub-basecourse placement
- o completion of compaction of basecourse material prior to placement of surfacing
- o boxing and jointing prior to pouring of concrete

o final inspection on completion of drainage and surfaces.

RESOURCE CONSEN[.] NOT FOR CONSTRUCTION ORIGINAL DRAWING IN COLOUR

A ISSUED FOR RESOURCE CONSENT CB DJ PH 11.08.23



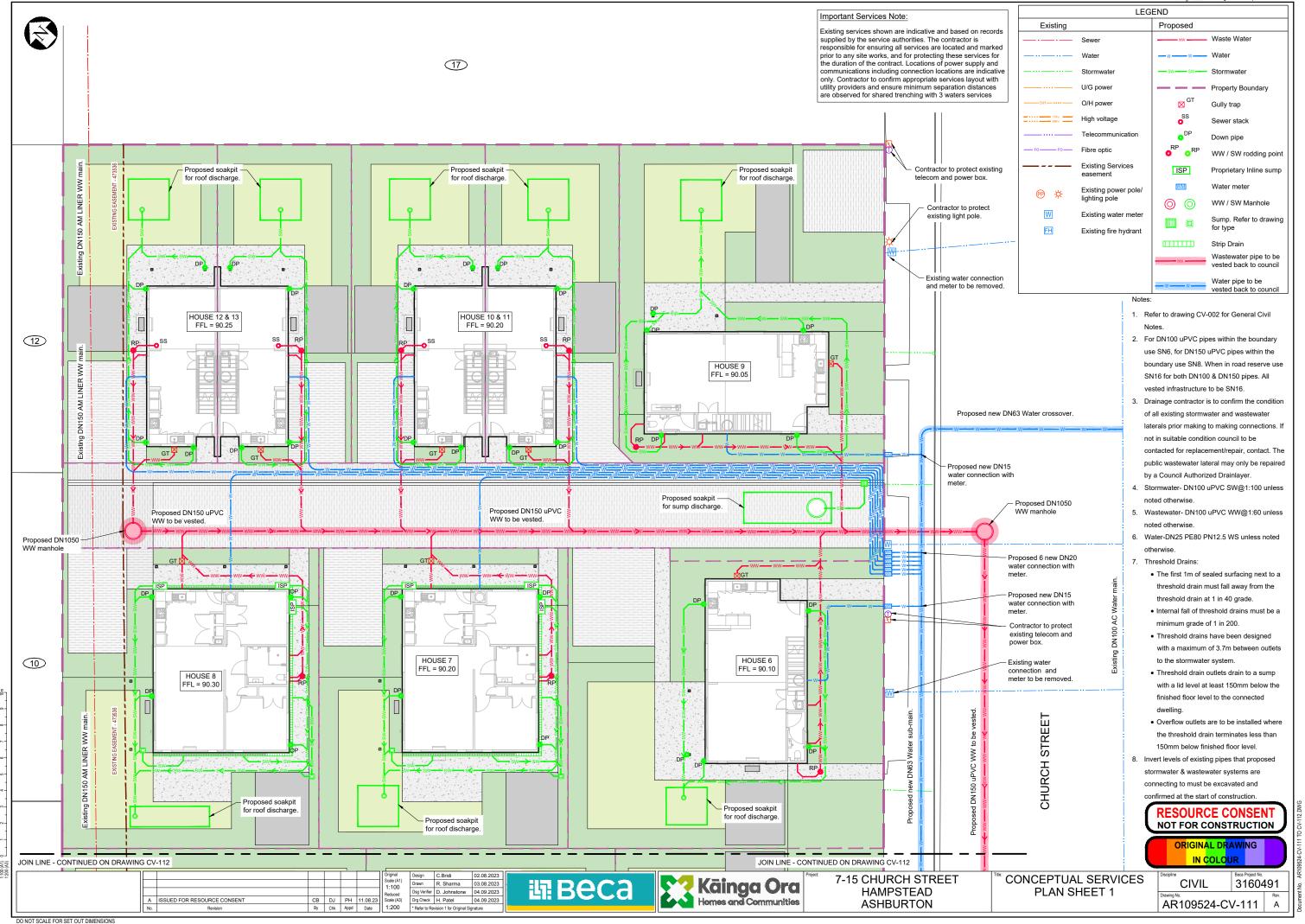


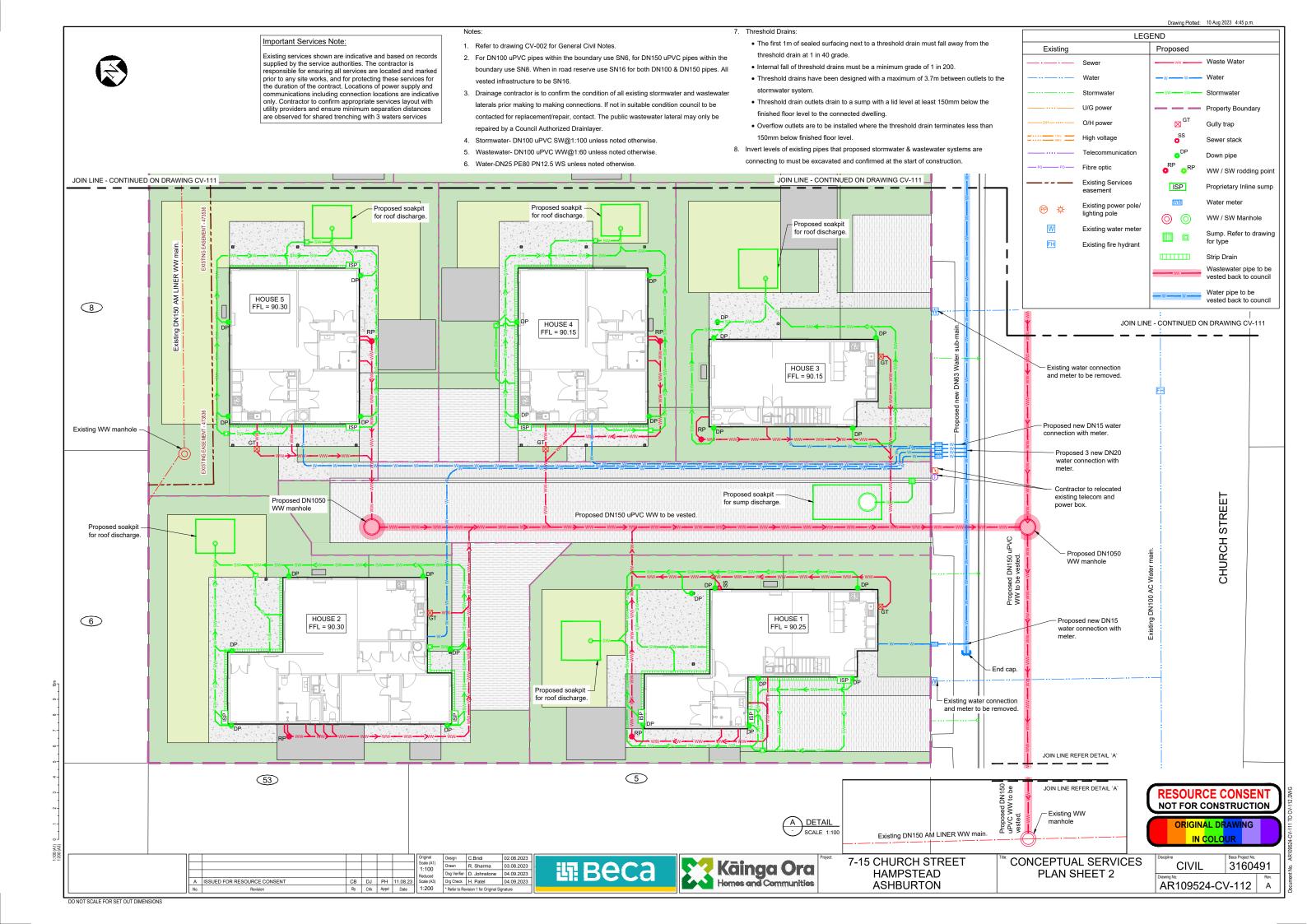


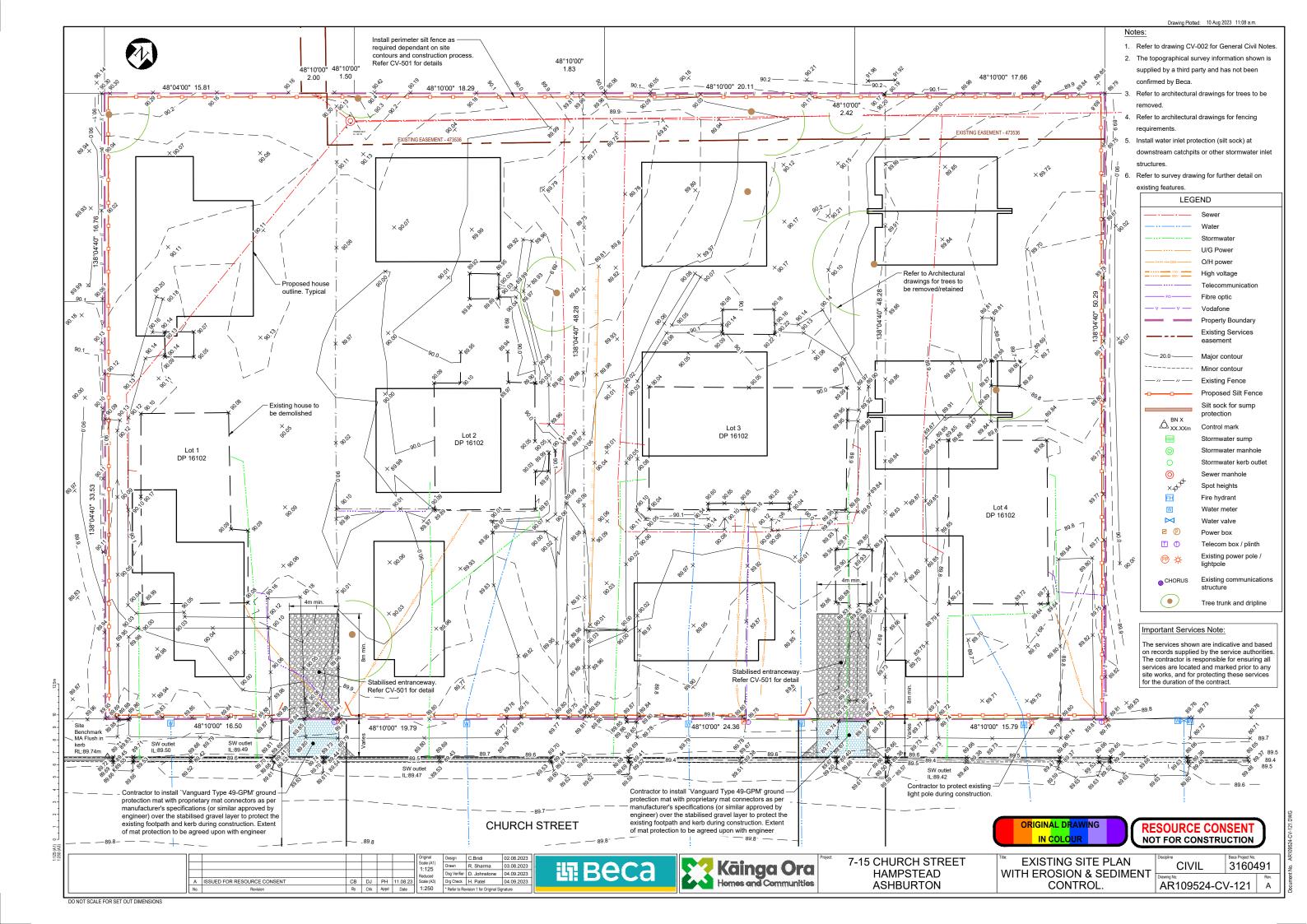
7-15 CHURCH STREET **HAMPSTEAD ASHBURTON**

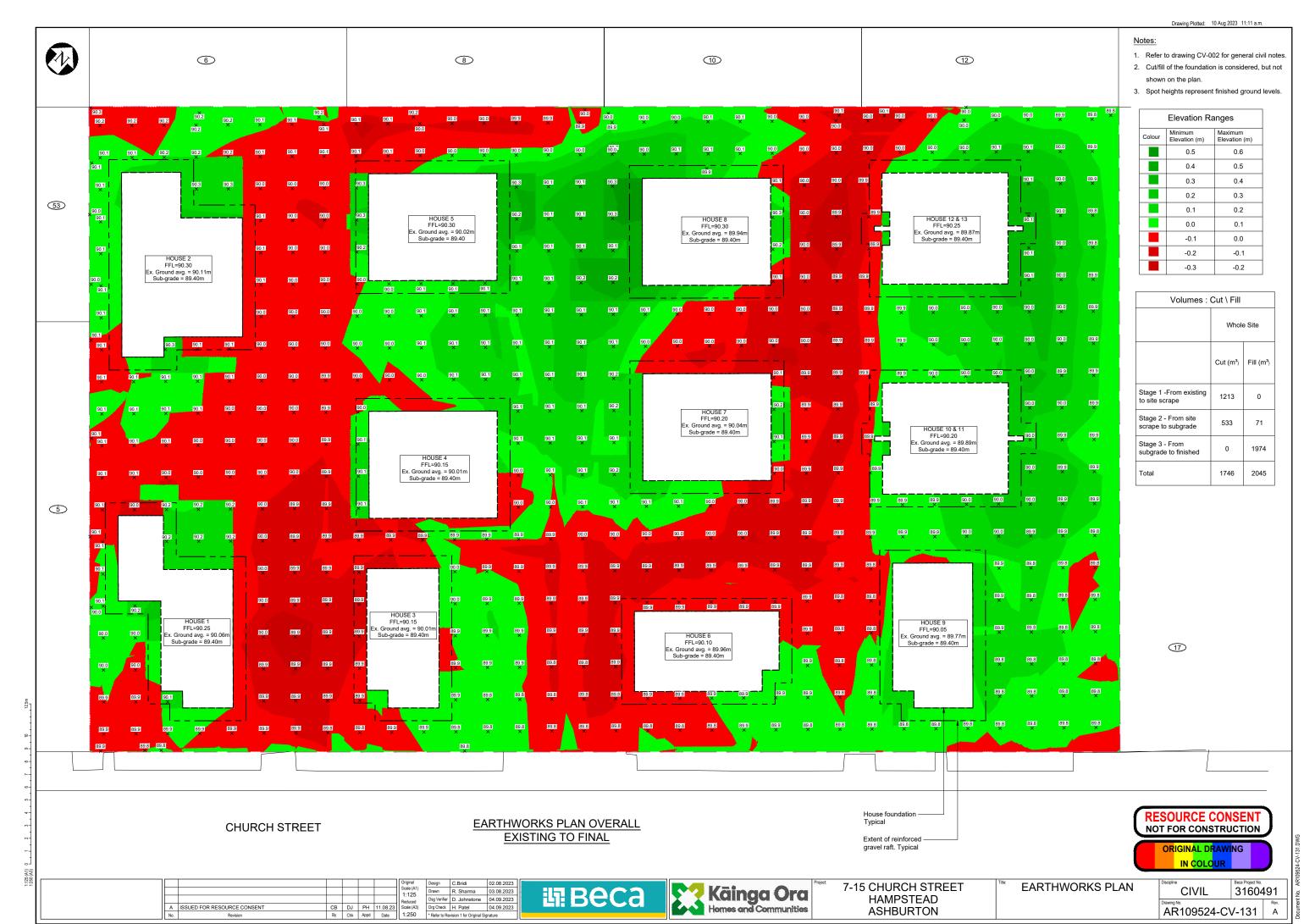
GENERAL CIVIL NOTES

CIVIL 3160491 AR109524-CV-002



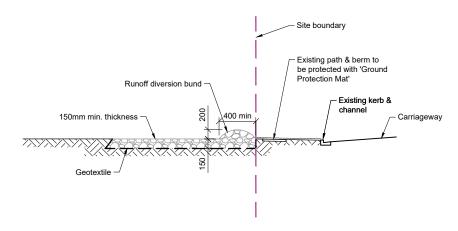




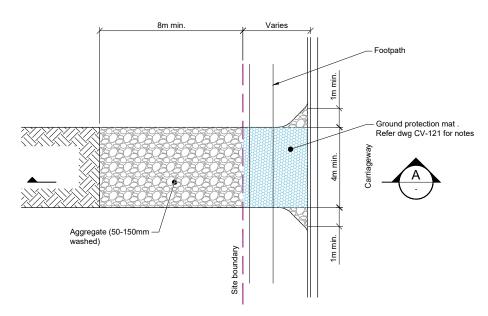


Notes:

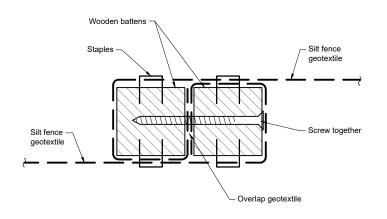
- 1. Refer to drawing CV-002 for General Notes.
- 2. Refer to drawing CV-121 for location of stabilised entranceway on property boundary.



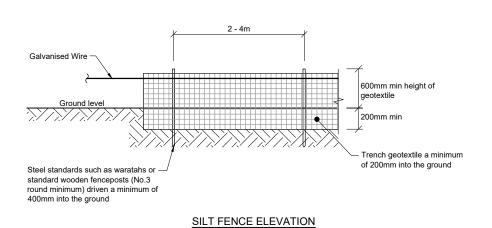


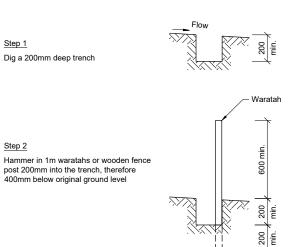


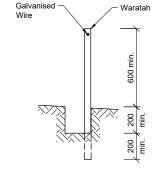
STABILISED ENTRANCEWAY - PLAN SCALE

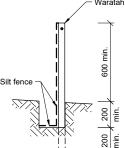


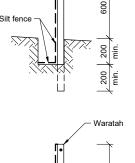
SILT FENCE GEOTEXTILE JOIN SECTIONAL PLAN











SILT FENCE CONSTRUCTION METHOD

RESOURCE CONSENT NOT FOR CONSTRUCTION

 Design
 C.Bridi
 02.08.2023

 Drawn
 R. Sharma
 03.08.2023
 | as shown | Bedured | Day Verifier | D. Johnstone | 04.09.2023 | CB | DJ | PH | 11.08.23 | Scale (A3) | Drg Check | H. Patel | 04.09.2023 | A ISSUED FOR RESOURCE CONSENT





7-15 CHURCH STREET HAMPSTEAD **ASHBURTON**

Step 3

Step 4

height)

Step 5

Install single galvanised wire and tension it at 50m intervals

Install single layer of silt fence geotextile fabric hard against the side of the trench (800mm total

Back fill and compact well (critical)

EROSION & SEDIMENT CONTROL DETAILS

CIVIL 3160491 AR109524-CV-501