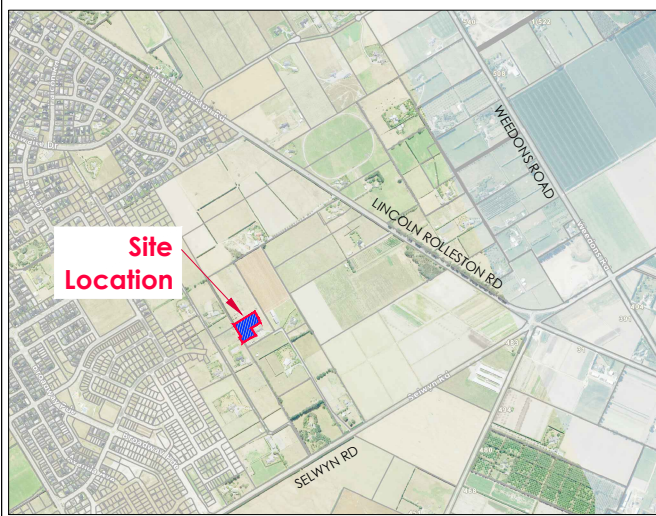
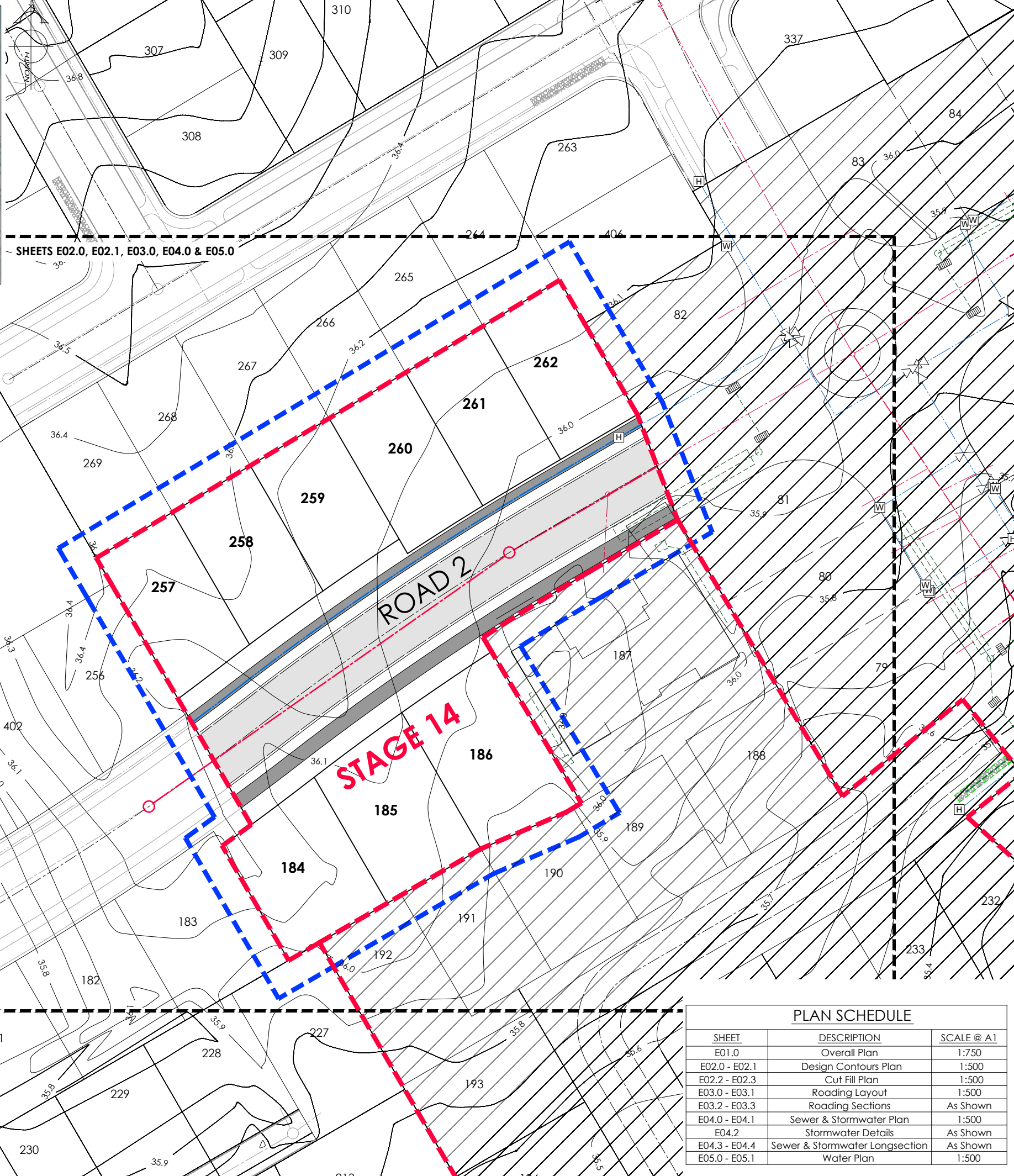




LOCATION PLAN

Scale: 1:10,000@A1
1:20,000@A3

Lot 5
DP 337894



AMENDMENTS:

AMENDMENT	DATE	DESCRIPTION

NOTES:

1.

ALL WORKS IN ACCORDANCE WITH SDC CODE OF PRACTICE PARTS 1-11 STANDARDS, IF STANDARDS ARE UNSPECIFIED REFER TO CCC CSS PARTS 1-7.

2.

ALL PLANS ARE TO BE READ AND DISTRIBUTED AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.

3.

ELECTRICITY & TELECOM SERVICES NOT SHOWN. REFER TO ELECTRICAL & COMMUNICATION PLANS FOR DUCT LOCATIONS.

4.

TRENCHING AND INSTALLATION OF POWER AND TELECOM SERVICES TO BE PROVIDED IN ACCORDANCE WITH SERVICE PROVIDERS PLANS AND SPECIFICATIONS.

5.

EXISTING SERVICES HAVE BEEN DIGITISED FROM SERVICE AUTHORITY PLANS; COMPLETENESS AND ACCURACY ARE NOT GUARANTEED. ALL SERVICES TO BE FULLY SEARCHED AND PILOTTED PRIOR TO TRENCHING.

6.

CONTOUR INTERVAL: 0.1m MINOR. 1.0m MAJOR.

7.

ORIGIN OF LEVELS
LEVELS ARE IN TERMS OF LYTTELTON VERTICAL DATUM 1937

ORIGIN MARK B882 (UG 32)
RL 55.908m
CHK EJBW (CC 370 NO 2)
RL 58.154m

8.

CONTROL OF SW, SEDIMENT AND DUST ON SITE IS THE RESPONSIBILITY OF THE CONTRACTOR.

9.

ALL ROW AND DRIVEWAYS ARE TO HAVE 50mm DUCTS INSTALLED FOR COMMUNICATIONS AND POWER SUPPLY.

LEGEND:

STAGE BOUNDARY

EXTENT OF WORKS

FLUSHING POINT

BOUNDARY BOX

STREET LIGHT

EXISTING STREET LIGHT

PROPOSED TREE

NEW ASPHALT PAVEMENT

NEW FOOTPATH

NEW CHIP SEAL PAVEMENT

COMPLETED STAGES

NEW EXPOSED AGGREGATE CONCRETE

EXISTING SERVICES

SANITARY SEWER STD. MH

SANITARY SEWER VENTED MH

SANITARY SEWER MH

STORMWATER MH

WATER FH

WATER VALVE

WATER METER

KERB

KERB CUT DOWN

PROPOSED SERVICES

SANITARY SEWER STD. MH

SANITARY SEWER VENTED MH

SANITARY SEWER MH

STORMWATER MH

WATER FH

WATER VALVE

WATER METER

KERB

KERB CUT DOWN

NAME	SIGNED	DATE
DESIGNED BY BEN FOX	BEN FOX	
CHECKED BY ANDY HALL	ANDY HALL	

DAVIE LOVELL-SMITH

PLANNING SURVEYING ENGINEERING

116 Wrights Road
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P O Box 679
Website: www.dls.co.nz

Christchurch 8140, New Zealand
E-mail: office@dls.co.nz

JOB TITLE:

Broadfield Grange
Stage 14

SHEET TITLE:

Overall Plan
RC245118 & RC245458

DRAWING STATUS

For Engineering Approval

SCALE: 1:750@A1
1:1500@A3

DATE: November 2025

CAD FILE: J:\20666\Eng\Drawings\STAGE 14\E20666_E01.0 STG 14_R0.dwg

DRAWING No: E.20666

SHEET No: E01.0

DRAWN: JS

REVISION: R0

PLAN SCHEDULE

SHEET	DESCRIPTION	SCALE @ A1
E01.0	Overall Plan	1:750
E02.0 - E02.1	Design Contours Plan	1:500
E02.2 - E02.3	Cut Fill Plan	1:500
E03.0 - E03.1	Roading Layout	1:500
E03.2 - E03.3	Roading Sections	As Shown
E04.0 - E04.1	Sewer & Stormwater Plan	1:500
E04.2	Stormwater Details	As Shown
E04.3 - E04.4	Sewer & Stormwater Longsection	As Shown
E05.0 - E05.1	Water Plan	1:500



AMENDMENTS:

AMENDMENT	DATE	DESCRIPTION

NOTES:

1.

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2.

ALL PLANS ARE TO BE READ AND DISTRIBUTED AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.

3.

CARRIAGEWAY AND FOOTPATH ACCEPTANCE TESTING IN ACCORDANCE WITH CCC CSS PART 6 AND CCC IDS.

4.

ORIGIN OF LEVELS
LEVELS ARE IN TERMS OF LYTTELTON VERTICAL DATUM 1937

ORIGIN MARK B882 (UG 32)
RL 55.908m
CHK EJBW (CC 370 NO 2)
RL 58.154m

5.

FOOTPATH BASECOURSE TESTING - MINIMUM CLEGG HAMMER VALUE OF 25 REQUIRED FOR FOOTPATHS & RESIDENTIAL CROSSINGS.

6.

- MINIMUM CLEGG HAMMER VALUE OF 35 REQUIRED FOR COMMERCIAL CROSSINGS.

7.

KERB & CHANNEL BASECOURSE TESTING - MINIMUM DRY DENSITY OF 2100kg/m³ WITH 75% EQUAL OR EXCEEDING 2150kg/m³.

8.

CUTDOWNS AT RESIDENTIAL PARKING AREAS TO HAVE 280mm OF CONCRETE AS PER SD611 AND CUT DOWN IN COMMERCIAL PARKING AREAS TO HAVE 280mm OF CONCRETE WITH REINFORCEMENT AS PER SD611.

9.

ALL BERMS TO BE AND COVERED WITH A MINIMUM OF 150mm GRADE 1 TOPSOIL AND GRASSED WITH CCC BERM MIX.

10.

ELECTRICITY & TELECOM SERVICES NOT SHOWN. REFER TO ELECTRICAL & COMMUNICATION PLANS FOR DUCT LOCATIONS.

11.

ALL ROAD AND FOOTPATH AREAS TO BE SURFACED USING ASPHALTIC CONCRETE. FOOTPATHS TO BE CONSTRUCTED IN ACCORDANCE WITH SDC REQUIREMENTS WITH 25mm DEPTH AC, WHILE ROAD PAVEMENTS TO BE 35mm DEPTH.

12.

METAL DEPTHS TO BE CONFIRMED OR INCREASED PRIOR TO COMMENCEMENT OF WORK FOLLOWING THE CHECKING OF SUBGRADE CBR ON SITE.

13.

KERBS AT INTERSECTIONS HAVE A RADIUS OF 6.0m UNLESS SHOWN OTHERWISE.

14.

ALL PAVEMENT CROSSFALLS ARE TO BE CONSTRUCTED IN ACCORDANCE SD423.

15.

TACTILE PAVERS ARE TO BE INSTALLED AS PER SD423 AND RTS14 GUIDELINES FOR FACILITIES FOR THE BLIND AND VISION -IMPAIRED PEDESTRIANS.

16.

ROAD BASECOURSE TESTING - MAXIMUM BENKELMAN BEAM DEFLECTION OF 2.00mm WITH 95% BELOW 1.6mm FOR ROADS AND A MAXIMUM DEFLECTION OF 2.5mm WITH 95% BELOW 2.00mm FOR ROWS.

17.

ALL ROW AND DRIVEWAYS ARE TO HAVE 50mm DUCTS INSTALLED FOR COMMUNICATIONS AND POWER SUPPLY.

	NAME	SIGNED	DATE
DESIGNED BY	BEN FOX	BEN FOX	
CHECKED BY	ANDY HALL	ANDY HALL	



DAVIE LOVELL-SMITH
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Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

JOB TITLE:

**Broadfield Grange
Stage 14**

SHEET TITLE:

**Roothing Layout
RC245118 & RC245458**

DRAWING STATUS

For Engineering Approval

SCALE: 1:550@A1
1:1100@A3

DATE: November 2025

CAD FILE: J:\20666\Eng\Drawings\STAGE 14\E20666_E01.0 STG 14_R0.dwg

DRAWING No: **E.20666**

SHEET No: **E03.0**

DRAWN: JS
REVISION: **R0**



AMENDMENTS :

AMENDMENT	DATE	DESCRIPTION

NOTES :

1.

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3.

ALL SERVICES TO BE FULLY SEARCHED AND PILOTTED PRIOR TO TRENCHING.

4.

ALL UPVC PIPES (WHETHER SEWER OR STORMWATER) SHALL CONFORM TO AS NZS 1260:1999 AND SHALL HAVE THE FOLLOWING STIFFNESS NUMBERS AS SET OUT IN THE STANDARD: DN 100 AND 150...SN16; DN225 AND LARGER ... SN8.

5.

ALL SERVICES UP DRIVEWAYS & ROWs TO BE INSTALLED BY A REGISTERED DRAIN LAYER AND IN TERMS OF THE BUILDING CONSENT.

6.

REFER TO LONGSECTIONS FOR ALL SEWER & STORMWATER LEVELS.

7.

ORIGIN OF LEVELS
LEVELS ARE IN TERMS OF LYTTELTON VERTICAL DATUM 1937

ORIGIN MARK B882 (UG 32)
RL 55.908m
CHK EJBW (CC 370 NO 2)
RL 58.154m

8.

ALL SEWER AND STORMWATER LATERALS TO BE LAID AT 1:60, MINIMUM GRADE AND LAID TO 1.0m WITHIN LOTS.

9.

NOMINATED PIPE SIZES ARE INTERNAL DIAMETER UNLESS NOTED OTHERWISE.

10.

ALL RESIDENTIAL STORMWATER LATERALS TO BE 100mm DIAMETER AND INDUSTRIAL LATERALS TO BE A MINIMUM OF 150mm.

11.

RAMPED RISERS ARE TO BE USED FOR LATERALS TO ENSURE A MAXIMUM DEPTH OF 1.5m COVER AT THE LOT BOUNDARY.

12.

BEDDING TO BE AS PER SD344 UNLESS OTHERWISE SPECIFIED.

13.

ALL STORMWATER PIPES 225mm DIAMETER uPVC SN8 UNLESS NOTED OTHERWISE. REFER TO LONSECTIONS FOR DETAILS.

LEGEND :

STREET LIGHT

EXISTING STREET LIGHT

STORMWATER SOAKPIT

EXISTING SERVICES

PROPOSED SERVICES

STORMWATER

STORMWATER

KERB

KERB

MH

MH

CUT DOWN

NAME	SIGNED	DATE
DESIGNED BY BEN FOX	BEN FOX	
CHECKED BY ANDY HALL	ANDY HALL	

DAVIE LOVELL-SMITH

PLANNING SURVEYING ENGINEERING

116 Wrights Road P O Box 679 Christchurch 8140. New Zealand
Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

JOB TITLE:

Broadfield Grange
Stage 14

SHEET TITLE:

Sewer & Stormwater Plan
RC245118 & RC245458

DRAWING STATUS

For Engineering Approval

SCALE : 1:550@A1
1:1100@A3

DATE : November 2025

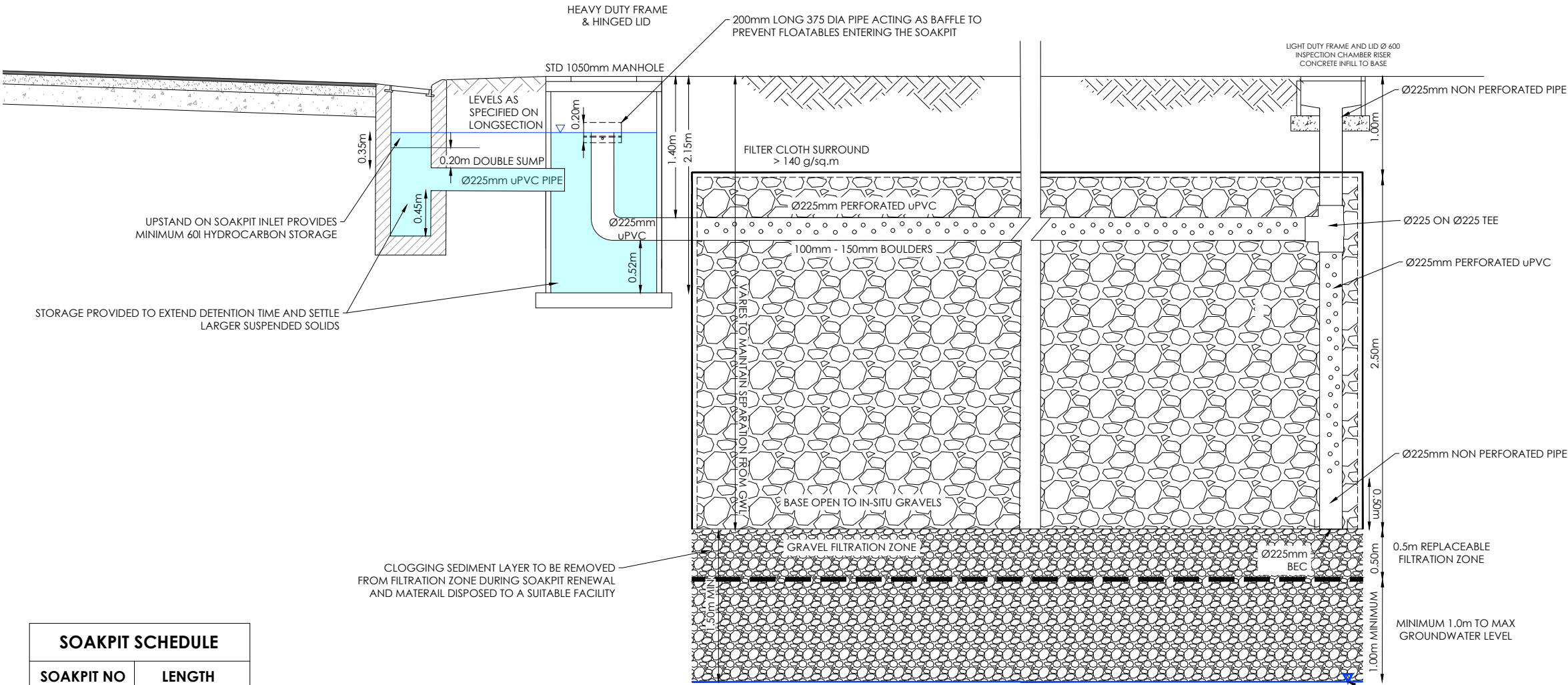
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DRAWING No : E.20666

SHEET No: E04.0

REVISION : R0

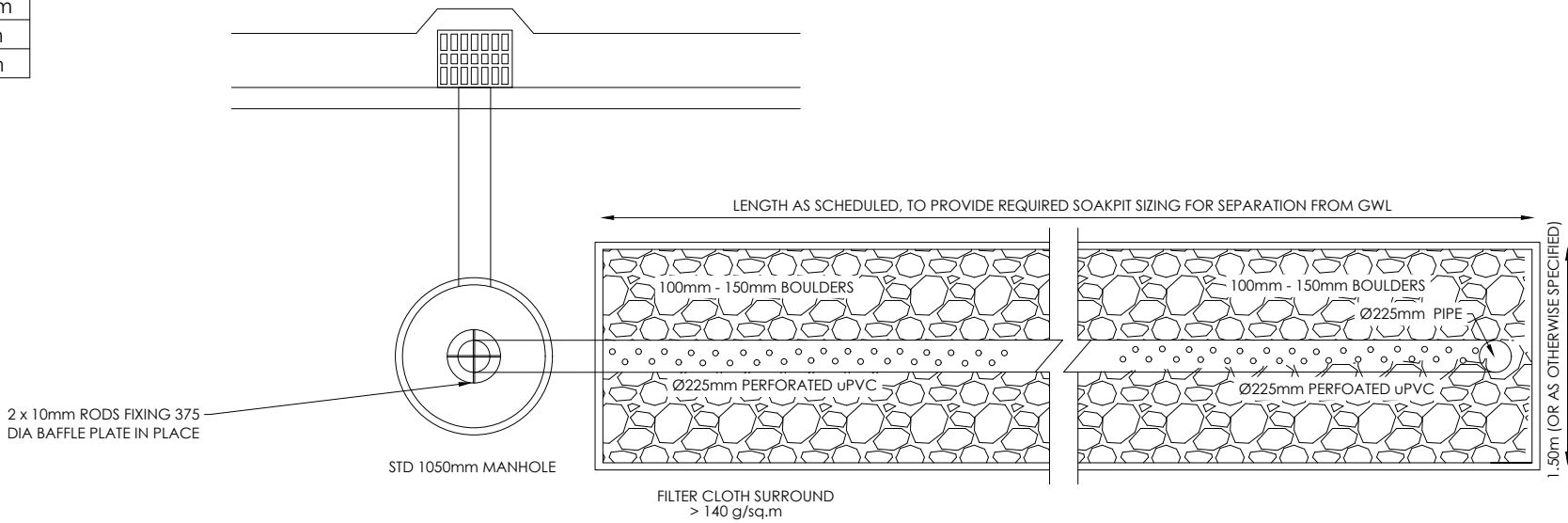
SOAKAGE RATE TO BE CONFIRMED ONSITE. REFER TO ENGINEER FOR SOAKPIT SIZING.



SOAKPIT TYPE 1 CONNECTION CROSS-SECTION

SCALE:
1:25@A1
1:50@A3

SOAKPIT SCHEDULE	
SOAKPIT NO	LENGTH
SW.9	31.2m x 2m
SW.10	30.7m x 2m
SW.11	29.5m x 2m
SW.12	36.9m x 1.5m
SW.13	12.8m x 1.5m
SW.14	23.5m x 1.5m
SW.15	10.4m x 2m
SW.23	28.3m x 2m



SUMP TO SOAKPIT TYPE 1 CONNECTION PLAN

SCALE:
1:25@A1
1:50@A3

AMENDMENTS :		
AMENDMENT	DATE	DESCRIPTION
NOTES :		
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2. ALL PLANS ARE TO BE READ AND DISTRIBUTED AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.		
3. ALL SERVICES TO BE FULLY SEARCHED AND PILOTTED PRIOR TO TRENCHING.		
4. ALL UPVC PIPES (WHETHER SEWER OR STORMWATER) SHALL CONFORM TO AS NZS 1260:1999 AND SHALL HAVE THE FOLLOWING STIFFNESS NUMBERS AS SET OUT IN THE STANDARD: DN 100 AND 150...SN16; DN225 AND LARGER ... SN8.		
5. <u>ALL SERVICES UP DRIVEWAYS & ROWs TO BE INSTALLED BY A REGISTERED DRAIN LAYER AND IN TERMS OF THE BUILDING CONSENT.</u>		
6. REFER TO LONGSECTIONS FOR ALL SEWER & STORMWATER LEVELS.		
7. <u>ORIGIN OF LEVELS</u> LEVELS ARE IN TERMS OF LYTTELTON VERTICAL DATUM 1937 ORIGIN MARK B882 (UG 32) RL 55.908m CHK EJBW (CC 370 NO 2) RL 58.154m		
8. <u>ALL SEWER AND STORMWATER LATERALS TO BE LAID AT 1:60. MINIMUM GRADE AND LAID TO 1.0m WITHIN LOTS.</u>		
9. NOMINATED PIPE SIZES ARE INTERNAL DIAMETER UNLESS NOTED OTHERWISE.		
10. <u>ALL RESIDENTIAL STORMWATER LATERALS TO BE 100mm DIAMETER AND INDUSTRIAL LATERALS TO BE A MINIMUM OF 150mm.</u>		
11. <u>RAMPED RISERS ARE TO BE USED FOR LATERALS TO ENSURE A MAXIMUM DEPTH OF 1.5m COVER AT THE LOT BOUNDARY.</u>		
12. BEDDING TO BE AS PER SD344 UNLESS OTHERWISE SPECIFIED.		



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JOB TITLE:
**Broadfield Grange
Stage 14**

SHEET TITLE:
**Stormwater Details
RC245118 & RC245458**

DRAWING STATUS:
For Engineering Approval

SCALE : As Shown DATE : November 2025

CAD FILE : \\20666\Eng\Drawings\STAGE 14\E20666_E01.0 STG 14_R0.dwg	DRAWN : JS	
DRAWING No : E.20666	SHEET No : E04.2	REVISION : R0



AMENDMENTS :

AMENDMENT	DATE	DESCRIPTION

NOTES :

1.

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3.

TRENCHING AND INSTALLATION OF POWER AND TELECOM SERVICES TO BE PROVIDED IN ACCORDANCE WITH SERVICE PROVIDERS PLANS AND SPECIFICATIONS.

4.

ALL SERVICES TO BE FULLY SEARCHED AND PILOTED PRIOR TO TRENCHING.

5.

ALL WATER PIPES TO BE PE PN12.5 AND ALL FITTINGS TO BE PN16.

6.

WATERMAINS AND SUBMAINS TO BE INSTALLED AT THE OFFSET STATED ON THE PLAN AND AGREED WITH ENGINEER.

7.

WATERMAINS TO HAVE A MINIMUM COVER OF 0.75M.

8.

CONTRACTORS ATTENTION IS DRAWN TO THE COUNCILS REQUIREMENTS FOR PE WELD TESTING.

9.

REGISTERED CRAFTSMAN PLUMBER TO INSTALL ALL REAR LOT LATERALS. REFER TO THE BUILDING CODE.

10.

CONTRACTOR TO INSTALL WATER MAIN TO ENSURE NO CLASHES WITH OTHER SERVICES. TO BE INSTALLED IN ACCORDANCE WITH THE IDS 7.9.5.

11.

THRUST BLOCK AS PER WSD-004, 1m² DN300 TEE, 05m² DN200 TEE.

12.

ALL SUBMAIN CONNECTIONS TO MAIN PIPES TO BE BY TAPPING BAND OR HYDRANT CROSSOVER

LEGEND :

EXISTING SERVICES

WATER VALVE KERB

PROPOSED SERVICES

WATER VALVE METER CUT DOWN

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JOB TITLE:

**Broadfield Grange
Stage 14**

SHEET TITLE:

**Water Plan
RC245118 & RC245458**

DRAWING STATUS

For Engineering Approval

SCALE : 1:550@A1
1:1100@A3

DATE : November 2025