

PROPOSED DRAINAGE

EXISTING DRAINAGE

HOUSE CONNECTION

EXISTING HOUSE CONNECTION

RAIN GARDEN

PROPOSED SEWERAGE

EXISTING SEWERAGE

TEMPORARY SEWERAGE

WATER/NDW WATER/GAS/ELEC/BNB MAINS

EXISTING WATER/NDW WATER/GAS/ELEC/BNB MAINS

EXISTING FENCING

LOT RUNOFF DIRECTION

EARTHWORKS BATTER

VEGETATION TO RETAIN

TREE TO RETAIN

VEGETATION TO REMOVE

TREE TO REMOVE

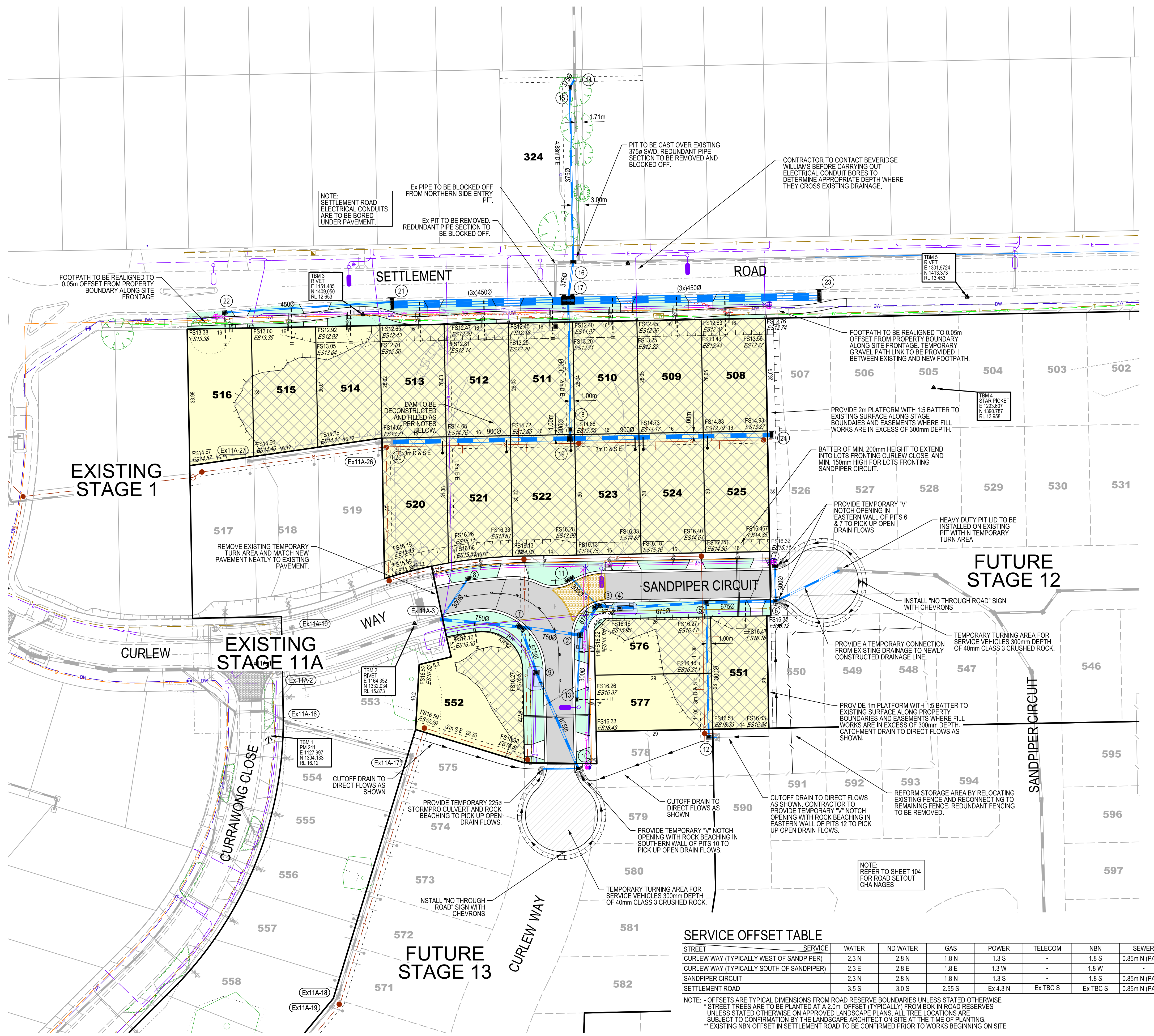
BUILDING EXCLUSION ZONE

INTERSECTION TREATMENT

VEHICLE CROSSOVER

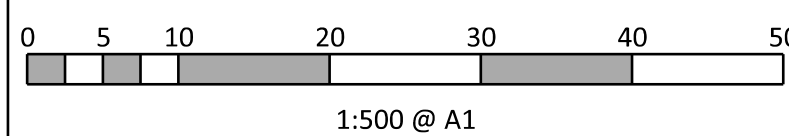
FILL AREA

PRELIMINARY PRINT  
NOT FOR CONSTRUCTION

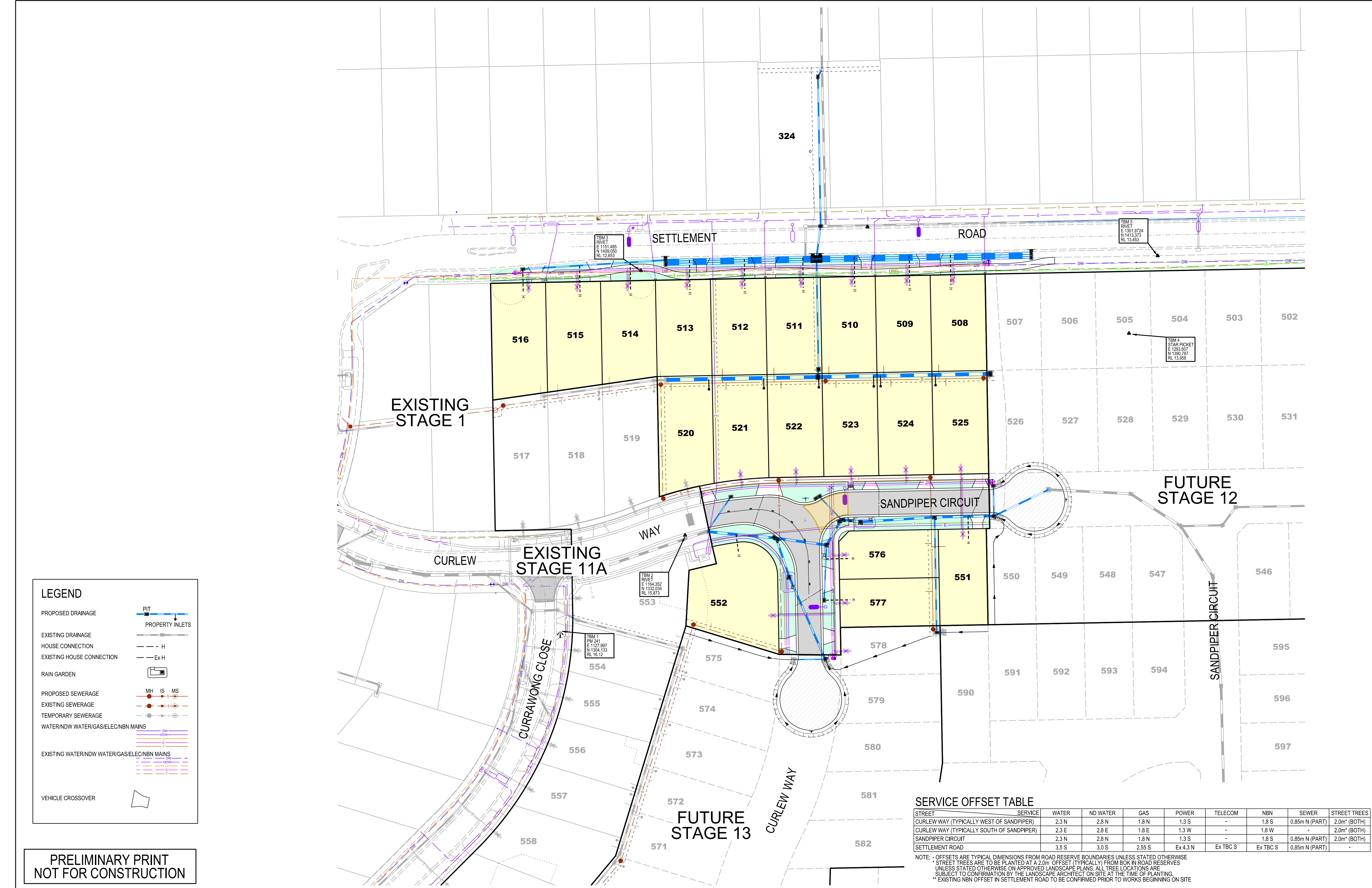


| STREET                                    | SERVICE | WATER | NO WATER | GAS      | POWER    | TELECOM  | NBN            | SEWER        | STREET TREES |
|---|---------|-------|----------|----------|----------|----------|----------------|--------------|--------------|
| CURLEW WAY (TYPICALLY WEST OF SANDPIPER)  | 2.3 N   | 2.8 N | 1.8 N    | 1.3 S    | -        | 1.8 S    | 0.85m N (PART) | 2.0m* (BOTH) |              |
| CURLEW WAY (TYPICALLY SOUTH OF SANDPIPER) | 2.3 E   | 2.8 E | 1.8 E    | 1.3 W    | -        | 1.8 W    | -              | 2.0m* (BOTH) |              |
| SANDPIPER CIRCUIT                         | 2.3 N   | 2.8 N | 1.8 N    | 1.3 S    | -        | 1.8 S    | 0.85m N (PART) | 2.0m* (BOTH) |              |
| SETTLEMENT ROAD                           | 3.5 S   | 3.0 S | 2.65 S   | Ex 4.3 N | Ex TBC S | Ex TBC S | 0.85m N (PART) | -            |              |

NOTE: - OFFSETS ARE TYPICAL DIMENSIONS FROM ROAD RESERVE BOUNDARIES UNLESS STATED OTHERWISE  
 \* STREET TREES ARE TO BE PLANTED AT A 2.0m OFFSET (TYPICALLY) FROM BOK IN ROAD RESERVES  
 UNLESS STATED OTHERWISE ON APPROVED LANDSCAPE PLANS. ALL TREE LOCATIONS ARE  
 SUBJECT TO CONFIRMATION BY THE LANDSCAPE ARCHITECT ON SITE AT THE TIME OF PLANTING.  
 \*\* EXISTING NBN OFFSET IN SETTLEMENT ROAD TO BE CONFIRMED PRIOR TO WORKS BEGINNING ON SITE







LEGEND

PROPOSED DRAINAGE

PROPERTY INLETS

EXISTING DRAINAGE

HOUSE CONNECTION

EXISTING HOUSE CONNECTION

RAIN GARDEN

PROPOSED SEWERAGE

EXISTING SEWERAGE

TEMPORARY SEWERAGE

WATER/NDW WATER/GAS/ELEC/NBN MAINS

EXISTING WATER/NDW WATER/GAS/ELEC/NBN MAINS

VEHICLE CROSSOVER

PRELIMINARY PRINT  
NOT FOR CONSTRUCTION

| SERVICE OFFSET TABLE                      |         |       |          |        |          |          |          |                |              |
|---|---------|-------|----------|--------|----------|----------|----------|----------------|--------------|
| STREET                                    | SERVICE | WATER | ND WATER | GAS    | POWER    | TELECOM  | NBN      | SEWER          | STREET TREES |
| CURLEW WAY (TYPICALLY WEST OF SANDPIPER)  |         | 2.3 N | 2.8 N    | 1.8 N  | 1.3 S    | -        | 1.8 S    | 0.85m N (PART) | 2.0m* (BOTH) |
| CURLEW WAY (TYPICALLY SOUTH OF SANDPIPER) |         | 2.3 E | 2.8 E    | 1.8 E  | 1.3 W    | -        | 1.8 W    | -              | 2.0m* (BOTH) |
| SANDPIPER CIRCUIT                         |         | 2.3 N | 2.8 N    | 1.8 N  | 1.3 S    | -        | 1.8 S    | 0.85m N (PART) | 2.0m* (BOTH) |
| SETTLEMENT ROAD                           |         | 3.5 S | 3.0 S    | 2.55 S | Ex 4.3 N | Ex TBC S | Ex TBC S | 0.85m N (PART) | -            |

NOTE: - OFFSETS ARE TYPICAL DIMENSIONS FROM ROAD RESERVE BOUNDARIES UNLESS STATED OTHERWISE  
\* STREET TREES ARE TO BE PLANTED AT A 2.0m OFFSET (TYPICALLY) FROM BOK IN ROAD RESERVES  
UNLESS STATED OTHERWISE ON APPROVED LANDSCAPE PLANS. ALL TREE LOCATIONS ARE  
SUBJECT TO CONFIRMATION BY THE LANDSCAPE ARCHITECT ON SITE AT THE TIME OF PLANTING.  
\*\* EXISTING NBN OFFSET IN SETTLEMENT ROAD TO BE CONFIRMED PRIOR TO WORKS BEGINNING ON SITE

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|     |                            |          |     |     |     |             |      |    |     |
|-----|----------------------------|----------|-----|-----|-----|-------------|------|----|-----|
| P2  | AMENDED ISSUE FOR APPROVAL | 1.12.15  | MJC | MJC |     |             |      |    |     |
| P1  | ORIGINAL ISSUE             | 21.10.15 | MJC | MJC |     |             |      |    |     |
| Rev | Description                | Date     | By  | App | Rev | Description | Date | By | App |

0 5 10 20 30 40 50

1:500 @ A1

Designed Date  
MJC  
21.10.15

Drawn  
MJC

Approved Date  
BW  
21.10.15

PS Number  
PS728721D

BW Ref  
M4015

BW

Beveridge Williams

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Project Details  
SEAGROVE ESTATE STAGE 11B, COWES  
SOUTHERN SUSTAINABLE DEVELOPMENTS  
BASS COAST SHIRE COUNCIL

Drawing Title  
SERVICE PLAN

Scale  
1:500 @ A1

Council Ref  
2605

Stage No  
11B R 102

Drawing No  
P2

Rev

N

C:\Users\coynem\Documents\Work\ACTIVE WORK FILES\m4015\Engineering\11-Stage\Design\_Road & Drainage\M4015-11B-D.dgn





Head Office  
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Customer: South Gippsland Quarries

Customer Address: RMB 7105 NERRENA VIC 3953

Project: Seagrove Estate - Stage 11B

Location: Cowes

Customer Order No.: -

Report Number: **308107.001 - 4**

Report Date: 23/07/16

C.G Order No: **5058**

Test Method: AS1289.5.7.1

Page: 1 of 1

## HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

| Sample No.:   | 1608389                         | 1608390                         | 1608391                         | 1608392                         | 1608393                         | 1608394                         | 1608395                         | 1608396                         | 1608397                         | 1608398                         |
|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| ID No.:   | 1                               | 2                               | 3                               | 4                               | 5                               | 6                               | 7                               | 8                               | 9                               | 10                              |
| Lot No.:  | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               |
| Date Sampled:                                       | 12/07/2016                      | 12/07/2016                      | 12/07/2016                      | 12/07/2016                      | 12/07/2016                      | 12/07/2016                      | 12/07/2016                      | 12/07/2016                      | 12/07/2016                      | 12/07/2016                      |
| Time Sampled:                                       | am                              | am                              | am                              | am                              | am                              | am                              | am                              | am                              | am                              | am                              |
| Date Tested:  | 13/07/2016                      | 13/07/2016                      | 13/07/2016                      | 13/07/2016                      | 13/07/2016                      | 13/07/2016                      | 13/07/2016                      | 14/07/2016                      | 13/07/2016                      | 13/07/2016                      |
| Material Source:                                    | Site Derived                    | Site Derived                    | Site Derived                    | Site Derived                    | Site Derived                    | Site Derived                    | Site Derived                    | Site Derived                    | Site Derived                    | Site Derived                    |
| Material Description:                               | Clay                            | Clay                            | Clay                            | Clay                            | Clay                            | Clay                            | Clay                            | Clay                            | Clay                            | Clay                            |
| To Be Used As                                       | Fill                            | Fill                            | Fill                            | Fill                            | Fill                            | Fill                            | Fill                            | Fill                            | Fill                            | Fill                            |
| Sample Location :                                   | Lot 514<br>Centre of Lot<br>FSL | Lot 513<br>Centre of Lot<br>FSL | Lot 512<br>Centre of Lot<br>FSL | Lot 511<br>Centre of Lot<br>FSL | Lot 510<br>Centre of Lot<br>FSL | Lot 509<br>Centre of Lot<br>FSL | Lot 508<br>Centre of Lot<br>FSL | Lot 520<br>Centre of Lot<br>FSL | Lot 521<br>Centre of Lot<br>FSL | Lot 522<br>Centre of Lot<br>FSL |
| Layer Depth (mm):                                   | 200                             | 200                             | 200                             | 200                             | 200                             | 200                             | 200                             | 200                             | 200                             | 200                             |
| Test Depth (mm):                                    | 175                             | 175                             | 175                             | 175                             | 175                             | 175                             | 175                             | 175                             | 175                             | 175                             |
| Sampling Procedure:                                 | AS1289.1.2.1.6.4(b)             | AS1289.1.2.1.6.4(b)             | AS1289.1.2.1.6.4(b)             | AS1289.1.2.1.6.4(b)             | AS1289.1.2.1.6.4(b)             | AS1289.1.2.1.6.4(b)             | AS1289.1.2.1.6.4(b)             | AS1289.1.2.1.6.4(b)             | AS1289.1.2.1.6.4(b)             | AS1289.1.2.1.6.4(b)             |
| Max Size (mm):                                      | 19.0                            | 19.0                            | 19.0                            | 19.0                            | 19.0                            | 19.0                            | 19.0                            | 19.0                            | 19.0                            | 19.0                            |
| Oversize Wet (%):                                   | 0                               | 0                               | 0                               | 0                               | 0                               | 0                               | 0                               | 0                               | 0                               | 0                               |
| Fld. Wet Density (t/m <sup>3</sup> ) AS 1289.5.8.1: | <b>2.00</b>                     | <b>2.08</b>                     | <b>2.13</b>                     | <b>2.09</b>                     | <b>2.19</b>                     | <b>2.01</b>                     | <b>2.17</b>                     | <b>2.09</b>                     | <b>2.06</b>                     | <b>1.99</b>                     |
| Fld. Moisture Content (%) AS1289.2.1.1:             | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               |
| PCWD (t/m <sup>3</sup> ):                           | <b>2.11</b>                     | <b>2.15</b>                     | <b>2.23</b>                     | <b>2.20</b>                     | <b>2.20</b>                     | <b>2.04</b>                     | <b>2.06</b>                     | <b>2.15</b>                     | <b>2.05</b>                     | <b>2.05</b>                     |
| APCWD (t/m <sup>3</sup> )                           | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               |
| O.M.C (%) AS1289.5.7.1:                             | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               |
| Moisture Ratio (%) AS1289.5.4.1:                    | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               |
| Moisture Variation (of omc):                        | <b>0.5% (wet)</b>               | <b>1.5% (wet)</b>               | <b>2% (wet)</b>                 | <b>omc</b>                      | <b>0.5% (wet)</b>               | <b>omc</b>                      | <b>omc</b>                      | <b>omc</b>                      | <b>omc</b>                      | <b>omc</b>                      |
| Adjusted Moisture Variation (of omc):               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               | -                               |
| Compactive Effort:                                  | Standard                        | Standard                        | Standard                        | Standard                        | Standard                        | Standard                        | Standard                        | Standard                        | Standard                        | Standard                        |
| Hilf Density Ratio (%):                             | <b>95.0</b>                     | <b>96.5</b>                     | <b>95.5</b>                     | <b>95.0</b>                     | <b>99.5</b>                     | <b>98.5</b>                     | <b>105.5</b>                    | <b>97.0</b>                     | <b>100.5</b>                    | <b>97.0</b>                     |
| Min Hilf Density Ratio (%):                         | 95                              | 95                              | 95                              | 95                              | 95                              | 95                              | 95                              | 95                              | 95                              | 95                              |

Remarks:



Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

APPROVED SIGNATORY

J Lamont

Form No.: **CG.315.002**

Issue Date: 19/02/2013



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Customer: South Gippsland Quarries

Customer Address: RMB 7105 NERRENA VIC 3953

Project: Seagrove Estate - Stage 11B

Location: Cowes

Customer Order No.: -

Report Number: **308107.001 - 4**

Report Date: 23/07/16

C.G Order No: **5058**

Test Method: AS1289.5.7.1

Page: 2 of 2

## HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

| Sample No.:   | 1608399                         | 1608400                         | 1608401                         |  |  |  |  |  |  |  |
|---|---------------------------------|---------------------------------|---------------------------------|--|--|--|--|--|--|--|
| ID No.:   | 11                              | 12                              | 13                              |  |  |  |  |  |  |  |
| Lot No.:  | -                               | -                               | -                               |  |  |  |  |  |  |  |
| Date Sampled:                                       | 12/07/2016                      | 12/07/2016                      | 12/07/2016                      |  |  |  |  |  |  |  |
| Time Sampled:                                       | am                              | am                              | am                              |  |  |  |  |  |  |  |
| Date Tested:  | 13/07/2016                      | 14/07/2016                      | 14/07/2016                      |  |  |  |  |  |  |  |
| Material Source:                                    | Site Derived                    | Site Derived                    | Site Derived                    |  |  |  |  |  |  |  |
| Material Description:                               | Clay                            | Clay                            | Clay                            |  |  |  |  |  |  |  |
| To Be Used As                                       | Fill                            | Fill                            | Fill                            |  |  |  |  |  |  |  |
| Sample Location :                                   | Lot 523<br>Centre of Lot<br>FSL | Lot 524<br>Centre of Lot<br>FSL | Lot 525<br>Centre of Lot<br>FSL |  |  |  |  |  |  |  |
| Layer Depth (mm):                                   | 200                             | 200                             | 200                             |  |  |  |  |  |  |  |
| Test Depth (mm):                                    | 175                             | 175                             | 175                             |  |  |  |  |  |  |  |
| Sampling Procedure:                                 | AS1289.1.2.1.6.4(b)             | AS1289.1.2.1.6.4(b)             | AS1289.1.2.1.6.4(b)             |  |  |  |  |  |  |  |
| Max Size (mm):                                      | 19.0                            | 19.0                            | 19.0                            |  |  |  |  |  |  |  |
| Oversize Wet (%):                                   | 0                               | 0                               | 0                               |  |  |  |  |  |  |  |
| Fld. Wet Density (t/m <sup>3</sup> ) AS 1289.5.8.1: | <b>2.07</b>                     | <b>1.99</b>                     | <b>2.09</b>                     |  |  |  |  |  |  |  |
| Fld. Moisture Content (%) AS1289.2.1.1:             | -                               | -                               | -                               |  |  |  |  |  |  |  |
| PCWD (t/m <sup>3</sup> ):                           | <b>2.11</b>                     | <b>2.05</b>                     | <b>2.08</b>                     |  |  |  |  |  |  |  |
| APCWD (t/m <sup>3</sup> )                           | -                               | -                               | -                               |  |  |  |  |  |  |  |
| O.M.C (%) AS1289.5.7.1:                             | -                               | -                               | -                               |  |  |  |  |  |  |  |
| Moisture Ratio (%) AS1289.5.4.1:                    | -                               | -                               | -                               |  |  |  |  |  |  |  |
| Moisture Variation (of omc):                        | <b>omc</b>                      | <b>0.5% (wet)</b>               | <b>0.5% (wet)</b>               |  |  |  |  |  |  |  |
| Adjusted Moisture Variation (of omc):               | -                               | -                               | -                               |  |  |  |  |  |  |  |
| Compactive Effort:                                  | Standard                        | Standard                        | Standard                        |  |  |  |  |  |  |  |
| <b>Hilf Density Ratio (%):</b>                      | <b>98.5</b>                     | <b>97.0</b>                     | <b>100.0</b>                    |  |  |  |  |  |  |  |
| Min Hilf Density Ratio (%):                         | 95                              | 95                              | 95                              |  |  |  |  |  |  |  |

Remarks:



Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

APPROVED SIGNATORY

J Lamont

Form No.: **CG.315.002**

Issue Date: 19/02/2013







## CONSTRUCTION NOTES

### GENERAL

- Minimum cover:
  - 0.60m footway (below invert of kerb)
  - 0.75m carriageway (below invert of kerb)
- Mains to be constructed in accordance with WSA specifications and standard drawings and other requirements of Westernport Water Corporation at offsets shown.
- Marker posts and reflectors are to be installed as per Westernport Water Corporation requirements.
- The location and direction of seals are shown as:
- All services are to be depthed and located prior to commencement of works.
- All affected services and surfaces are to be reinstated to service providers requirements.
- Contractor shall expose connection points five (5) days before scheduled connection to verify fittings required.
- Thrust restraints are to be installed in accordance with WAS 0.91.

⊗ Indicates thrust restraints.

The contractor must not alter the design unless specifically authorised by the consultant.

All hydrants are to be spring loaded and epoxy coated.

All valves to be resilient seated and epoxy coated to Australian Standards.

All lappings are to be completed using pre-tap connectors in accordance with Westernport Water requirements.

### TOTAL WORKS

| SIZE | TYPE                | LENGTH |
|------|---------------------|--------|
| 150  | MPVC (CLASS 16) RRJ | 277.3m |

### ATTENTION TO CONTRACTORS

In accordance with clause 16 of AS2134-1999 the contractor must ensure the safety of the contractors employees and all other people who are on or adjacent to the site. The contractor must comply with the Victorian Occupational Health and Safety Act. The contractor must ensure that all people employed on the site wear approved safety apparel. This includes safety helmets, safety boots, ear and eye protection, where appropriate.

**Hold Point:**  
Westernport Water or approved contractor to connect to existing live mains. Minimum five (5) clear working days to be provided to Westernport Water before commencing works or connecting to existing water main.

### ATTENTION TO CONTRACTORS

- NOTE:
- Thrust restraints are not to bear on any adjoining main.
  - 0.4m min thick PE sheet to be placed between adjacent anchor blocks.
  - The nominal thrust area  $T_N$  shall be achieved by pouring concrete the full length of the fitting and extending from the floor of the trench to the top of the fitting and tapering back to achieve required bearing area, Rafter Water Supply Code of Australia (S-3002, DWG No. WA1-120).

### WATER CONSTRUCTION HOLD POINTS SCHEDULE

| HOLD POINT | PROCESS / STAGE   |
|------------|---|
| 1          | 24 hours prior to commencement are pre-commencement details lodged, lot pegging completed and authorisation to start given. |
| 2          | Prior to use of un-approved or damaged products.  |
| 3          | Prior to use of battered or benched trench excavations.   |
| 4          | Prior to rectifying unsuitable foundation.  |
| 5          | Prior to use of alternative methods of thrust restraint.  |
| 6          | Prior to completing backfilling after asset recording is finalised.   |
| 7          | Prior to connections to existing mains after pressure testing, washing and chlorination passed.                             |
| 8          | Prior to practical completion after practical completion inspection.  |
| 9          | Prior to final completion after end of defects liability period inspection.   |

### FIRE PLUG SCHEDULE

| STREET            | LOCATION                        | TYPE              |
|-------------------|---------------------------------|-------------------|
| SETTLEMENT ROAD   | EAST BOUNDARY, LOT 508          | HYDRANT           |
| CURLEW WAY        | FRONT BOUNDARY, LOT 578         | TEMPORARY WASHOUT |
| SANDPIPER CIRCUIT | STAGE BOUNDARY, EAST OF LOT 525 | TEMPORARY WASHOUT |

### VERTICAL CLEARANCES

| Existing or proposed Service | Minimum vertical clearance (mm) | Existing or proposed Service    | Minimum vertical clearance (mm) |
|------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Water mains <DN275           | 150                             | Electricity conduits and cables | 225                             |
| Water mains >DN275           | 300                             | Stormwater drains & pits        | 150                             |
| Gas mains                    | 150                             | Sewers - gravity                | 500                             |
| Telecom conduits and cables  | 150                             | Sewers - pressure & vacuum      | 300                             |

- Vertical clearance between water mains shall depend on the larger main diameter.
- Water mains shall cross over sewers and drains unless shown otherwise.
- Maintain additional clearance from High Voltage electrical cables to allow for a protective barrier and manning.

**NOTE TO CONTRACTOR**  
CONTRACTOR TO LOCATE, DEPTH AND SIZE ALL RELEVANT EXISTING SERVICES FOR ALL CONNECTION POINT INCLUDING ANY CONFLICTING SERVICES TO BE RELOCATED OR FOR A CLEARANCE REQUIREMENT PRIOR TO COMMENCEMENT OF WORKS

**WARNING**  
BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITIONS SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN FOR EXISTING SERVICES ARE SHOWN

Neil Waters

Digitally signed by Neil Waters  
DN: cn=Neil Waters,  
o=Westernport Water,  
ou=Development,  
email=neil.waters@westernportwater.com.au, c=AU  
Date: 2016.01.14  
11:45:06 +11'00'

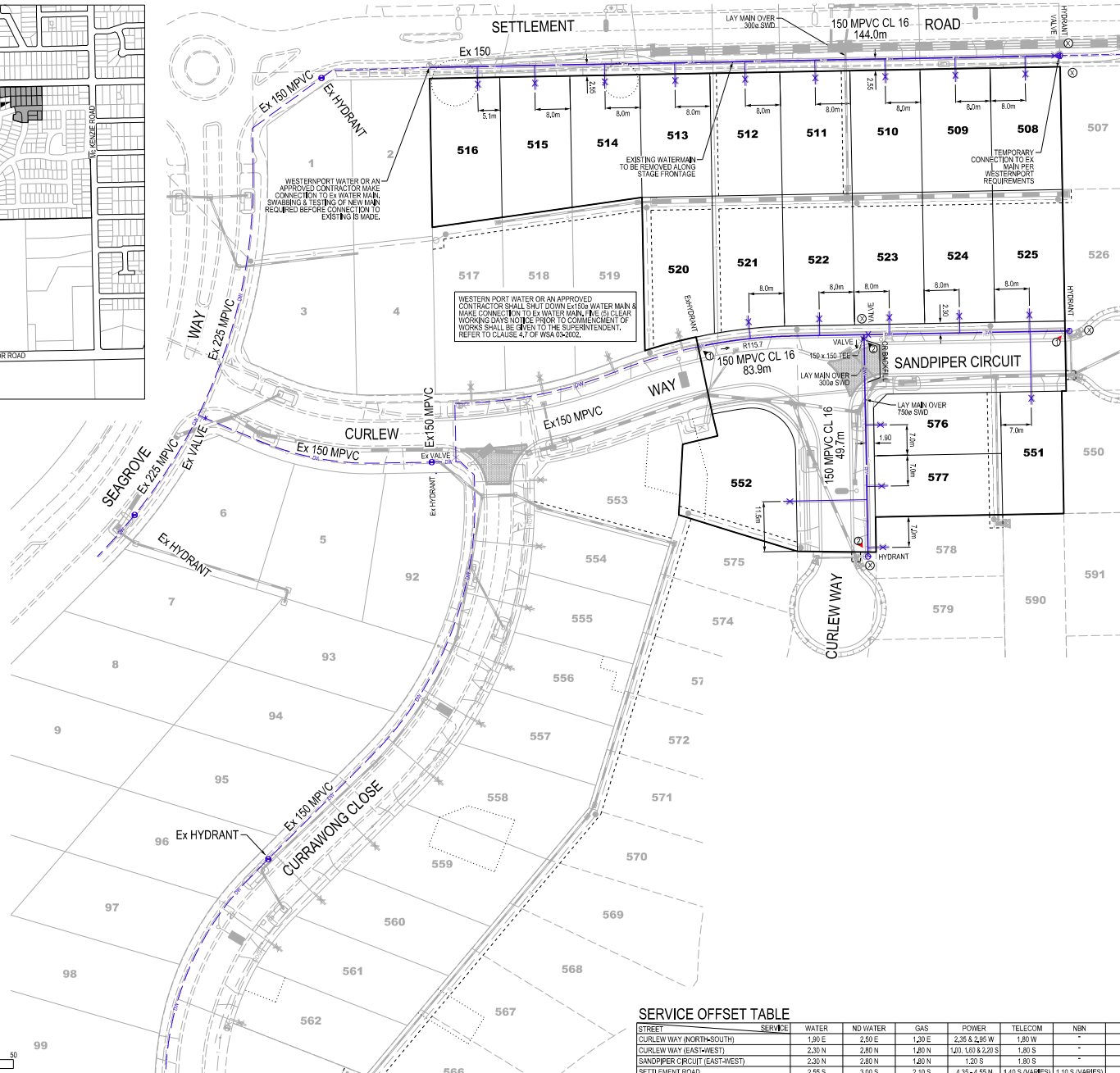
### DETAIL PLAN

SCALE 1:500 @ A1



### SITE PLAN

COVES NOT TO SCALE



### SERVICE OFFSET TABLE

| STREET                        | WATER  | NO WATER | GAS    | POWER               | TELECOM         | NBN             | SEWER  |
|-------------------------------|--------|----------|--------|---------------------|-----------------|-----------------|--------|
| CURLEW WAY (NORTH-SOUTH)      | 1.90 E | 2.60 E   | 1.20 E | 2.35 & 2.95 W       | 1.80 W          | -               | 0.80 W |
| CURLEW WAY (EAST-WEST)        | 2.30 N | 2.80 N   | 1.80 N | 1.20, 1.80 & 2.20 S | 1.80 S          | -               | 0.85 N |
| SANDPIPER CIRCUIT (EAST-WEST) | 2.30 N | 2.80 N   | 1.80 N | 1.20 S              | 1.80 S          | -               | 0.85 N |
| SETTLEMENT ROAD               | 2.55 S | 3.00 S   | 2.10 S | 4.25 - 4.55 N       | 1.40 S (VARIES) | 1.10 S (VARIES) | N/A    |

NOTE: - OFFSETS ARE TYPICAL DIMENSIONS FROM ROAD RESERVE BOUNDARIES UNLESS STATED OTHERWISE

| Revision | Details   | Date     | App'd |
|----------|---|----------|-------|
| P1       | Plans submitted to WPW for approval             | 24.11.15 | M.C   |
| P2       | Resubmitted with amendments to WPW for approval | 9.12.15  | M.C   |
| P3       | Resubmitted with amendments to WPW for approval | 22.12.15 | M.C   |
| P4       | Resubmitted with amendments to WPW for approval | 7.01.16  | M.C   |



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A/NM 63 759 106 755

|          |             |
|----------|-------------|
| Drawn    | C.KIRKCALDY |
| Designed | M.COYNE     |
| Checked  | M.COYNE     |
| Date     | 06.11.15    |
| BW Ref   | M4015-11B-W |

**WESTERNPORT WATER**  
**SEAGROVE ESTATE STAGE 11B, COWES**  
**(POTABLE) WATERMAIN DETAIL PLAN & NOTES**

|          |               |    |
|----------|---------------|----|
| DRG. NO. | 4015-11B<br>W | A1 |
| Sheet    | 1 of 1        |    |

## CONSTRUCTION NOTES

### GENERAL

Mains to be constructed in accordance with WSA specifications and standard drawings and other requirements of Westernport Water Corporation at offsets shown.

Marker posts and reflectors are to be installed as per Westernport Water Corporation requirements.

The location and direction of swabs are shown as

All services are to be depthed and located prior to commencement of works.

All affected services and surfaces are to be reinstated to service providers requirements.

Contractor shall expose connection points five (5) days before scheduled connection to verify fittings required.

Thrust restraints are to be installed in accordance with WAS 0.91.

⊗ Indicates thrust restraints.

The contractor must not alter the design unless specifically authorised by the consultant.

All hydrants are to be spring loaded and epoxy coated.

All valves to be resilient seated and epoxy coated to Australian Standards.

All lappings are to be completed using pre-tap connectors in accordance with Westernport Water requirements.

**TOTAL WORKS**

| SIZE | TYPE                | LENGTH |
|------|---------------------|--------|
| 150  | MPVC (CLASS 16) RRJ | 277.9m |

### ATTENTION TO CONTRACTORS

In accordance with clause 15 of AS2134-1999 the contractor must ensure the safety of the contractors employees and all other people who are on or adjacent to the site. The contractor must comply with the Victorian Occupational Health and Safety Act. The contractor must ensure that all people employed on the site wear approved safety apparel. This includes safety helmets, safety boots, ear and eye protection, where appropriate.

**HOLD POINT:**  
Westernport Water or approved contractor to connect to existing live main. Minimum five (5) clear working days to be provided to Westernport Water before commencing works or connecting to existing water main.

### ATTENTION TO CONTRACTORS

NOTE:

1. Thrust restraints are not to bear on any adjoining main.

2. 0.4m thick PE sheet to be placed between adjacent anchor blocks.

3. The nominal thrust area 'N' shall be achieved by pouring concrete the full length of the fitting and extending from the floor of the trench to the top of the fitting and tapering back to achieve required bearing area, Rater Water Supply Code of Australia (S-3002, DWG No. WA1-120).

### WATER CONSTRUCTION HOLD POINTS SCHEDULE

| HOLD POINT | PROCESS / STAGE   |
|------------|---|
| 1          | 24 hours prior to commencement are pre-commencement details lodged, lot pegging completed and authorisation to start given. |
| 2          | Prior to use of un-approved or damaged products.  |
| 3          | Prior to use of battered or benched trench excavations.   |
| 4          | prior to rectifying unsuitable foundation.  |
| 5          | prior to use of alternative methods of thrust restraint.  |
| 6          | Prior to completing backfilling after asset recording is finalised.   |
| 7          | Prior to connections to existing mains after pressure testing, washing and chlorination passed.                             |
| 8          | Prior to practical completion after practical completion inspection.  |
| 9          | Prior to final completion after end of defects liability period inspection.   |

### FIRE PLUG SCHEDULE

| STREET            | LOCATION                        | TYPE              |
|-------------------|---------------------------------|-------------------|
| SETTLEMENT ROAD   | EAST BOUNDARY, LOT 508          | HYDRANT           |
| CURLEW WAY        | FRONT BOUNDARY, LOT 578         | TEMPORARY WASHOUT |
| SANDPIPER CIRCUIT | STAGE BOUNDARY, EAST OF LOT 525 | TEMPORARY WASHOUT |

### VERTICAL CLEARANCES

| Existing or proposed Service | Minimum vertical clearance (mm) |
|------------------------------|---------------------------------|
| Water mains <DN375           | 150                             |
| Water mains >DN375           | 300                             |
| Gas mains                    | 150                             |
| Teleco conduits and cables   | 150                             |

| Existing or proposed Service    | Minimum vertical clearance (mm) |
|---------------------------------|---------------------------------|
| Electricity conduits and cables | 225                             |
| Stormwater drains & pits        | 150                             |
| Sewers - gravity                | 500                             |
| Sewers - pressure & vacuum      | 300                             |

- Vertical clearance between water mains shall depend on the larger main diameter.

- Water mains shall cross over sewers and drains unless shown otherwise.

- Maintain additional clearance from High Voltage electrical cables to allow for a protective barrier and manning.

### NOTE TO CONTRACTOR

CONTRACTOR TO LOCATE, DEPTH AND SIZE ALL RELEVANT EXISTING SERVICES FOR ALL CONNECTION POINT INCLUDING ANY CONFLICTING SERVICES TO BE RELOCATED OR FOR A CLEARANCE REQUIREMENT PRIOR TO COMMENCEMENT OF WORKS

### WARNING

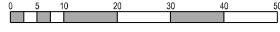
BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

Digitally signed by Neil Waters  
DN: cn=Neil Waters,  
o=Westernport Water,  
ou=Development,  
email=nwaters@westernportwater.com.au, c=AU  
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11:44:27 +11'00'

Neil Waters

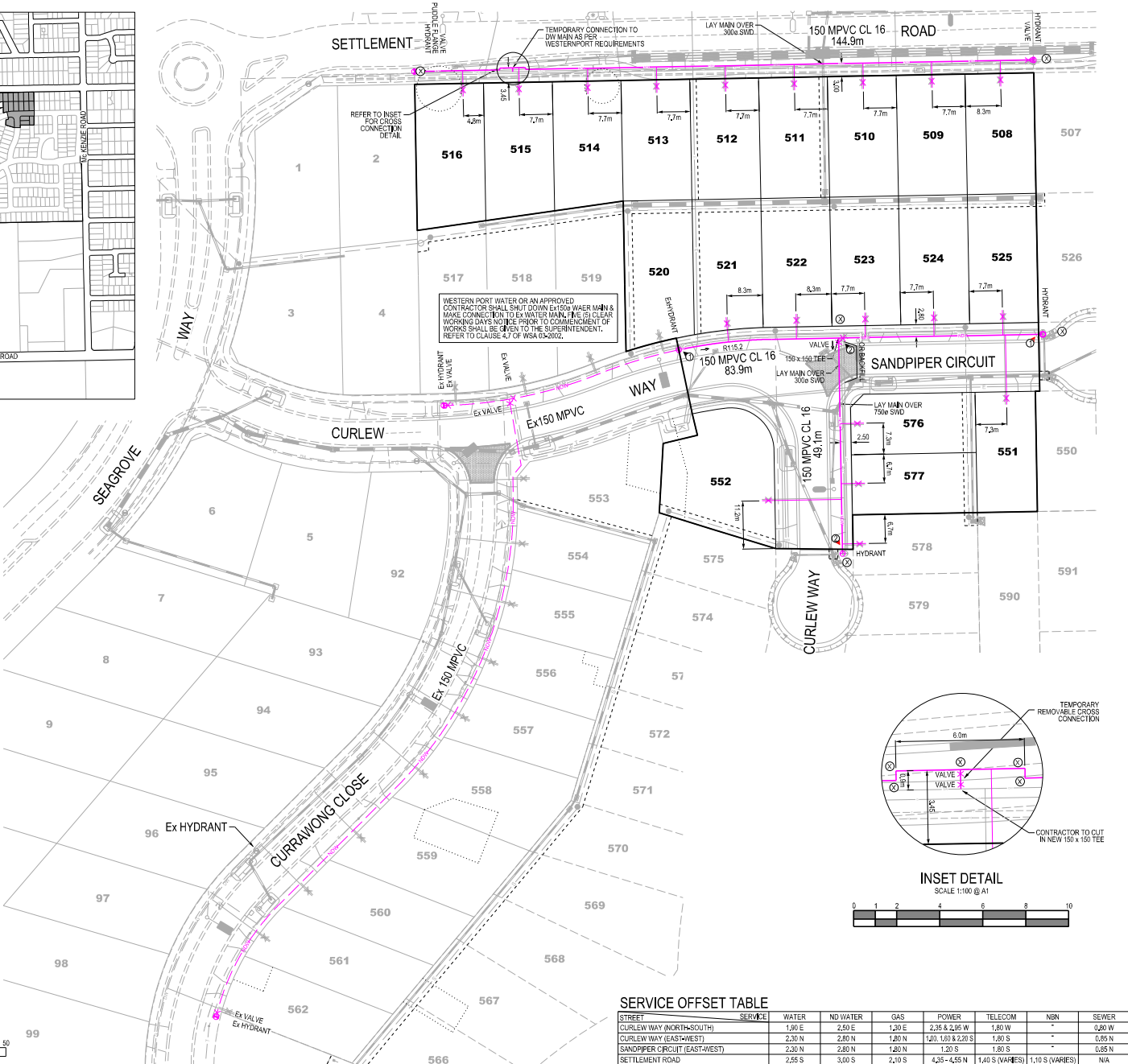
### DETAIL PLAN

SCALE 1:500 @ A1



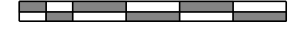
### SITE PLAN

COVES NOT TO SCALE



### INSET DETAIL

SCALE 1:100 @ A1



### SERVICE OFFSET TABLE

| STREET                        | WATER  | NO WATER | GAS    | POWER               | TELECOM         | NBN             | SEWER  |
|-------------------------------|--------|----------|--------|---------------------|-----------------|-----------------|--------|
| CURLEW WAY (NORTH-SOUTH)      | 1.90 E | 2.60 E   | 1.20 E | 2.35 & 2.95 W       | 1.80 W          | -               | 0.80 W |
| CURLEW WAY (EAST-WEST)        | 2.30 N | 2.80 N   | 1.80 N | 1.20, 1.80 & 2.20 S | 1.80 S          | -               | 0.85 N |
| SANDPIPER CIRCUIT (EAST-WEST) | 2.30 N | 2.80 N   | 1.80 N | 1.20 S              | 1.80 S          | -               | 0.85 N |
| SETTLEMENT ROAD               | 2.55 S | 3.00 S   | 2.10 S | 4.25 - 4.55 N       | 1.40 S (VARIES) | 1.10 S (VARIES) | N/A    |

NOTE: - OFFSETS ARE TYPICAL DIMENSIONS FROM ROAD RESERVE BOUNDARIES UNLESS STATED OTHERWISE

| Revision | Details   | Date     | App'd |
|----------|---|----------|-------|
| P1       | Plans submitted to WPW for approval             | 24.11.15 | M.C   |
| P2       | Resubmitted with amendments to WPW for approval | 9.12.15  | M.C   |
| P3       | Resubmitted with amendments to WPW for approval | 22.12.15 | M.C   |
| P4       | Resubmitted with amendments to WPW for approval | 7.01.16  | M.C   |



2 Boys Home Rd Newhaven, Vic 3925  
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westport@westernportwater.com.au  
A1M1 63 759 106 755

|          |              |
|----------|--------------|
| Drawn    | C.KIRKCALDY  |
| Designed | M.COYNE      |
| Checked  | 2.???        |
| Date     | 06.11.15     |
| BW Ref   | M4015-11B-RW |

**WESTERNPORT WATER**  
**SEAGROVE ESTATE STAGE 11B, COWES**  
**(RECYCLED) WATERMAIN DETAIL PLAN & NOTES**

DRG. NO.  
**4015-11B**  
**RW**  
**A1**  
Sheet 1 of 1

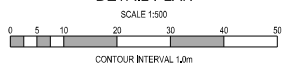


STRUCTURE SETOUT TABLE

| STRUCTURE  | TYPE   | EASTING  | NORTHING |
|------------|--------|----------|----------|
| Ex T13/1/3 | MH1050 | 1157.273 | 1376.139 |
| T13/1/3/1  | MH1050 | 1205.267 | 1376.918 |
| T13/1/3/2  | MH1050 | 1251.260 | 1377.781 |
| Ex T13/1/5 | MH1050 | 1191.585 | 1348.013 |
| T13/1/5/1  | MH1050 | 1235.787 | 1348.823 |
| T13/1/5/2  | MH1050 | 1236.596 | 1304.680 |

NOTE: - MAIN HOLE COORDINATES ARE TO THE PIPE INTERSECTION

DETAIL PLAN

**WARNING**

BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

**NOTE TO CONTRACTOR**

CONTRACTOR TO LOCATE, DEPTH AND SIZE ALL RELEVANT EXISTING SERVICES FOR ALL CONNECTION POINTS INCLUDING ANY EXISTING SERVICES TO BE RELOCATED OR FOR A CLEARANCE REQUIREMENT PRIOR TO COMMENCEMENT OF WORKS.



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westport@westernportwater.com.au  
AEM 63 759 106 755

Drawn C.KIRKCALDY  
Designed M.COYNE  
Checked M.COYNE  
Date 10.11.15  
BW Ref M4015-11B-S

**WESTERNPORT WATER**  
**SEAGROVE ESTATE STAGE 11B, COWES**  
**SEWER RETICULATION EXTENSION**

DRG. NO.

4015-11B-S

Sheet 2 of 3

**A1**

Neil  
Water  
S

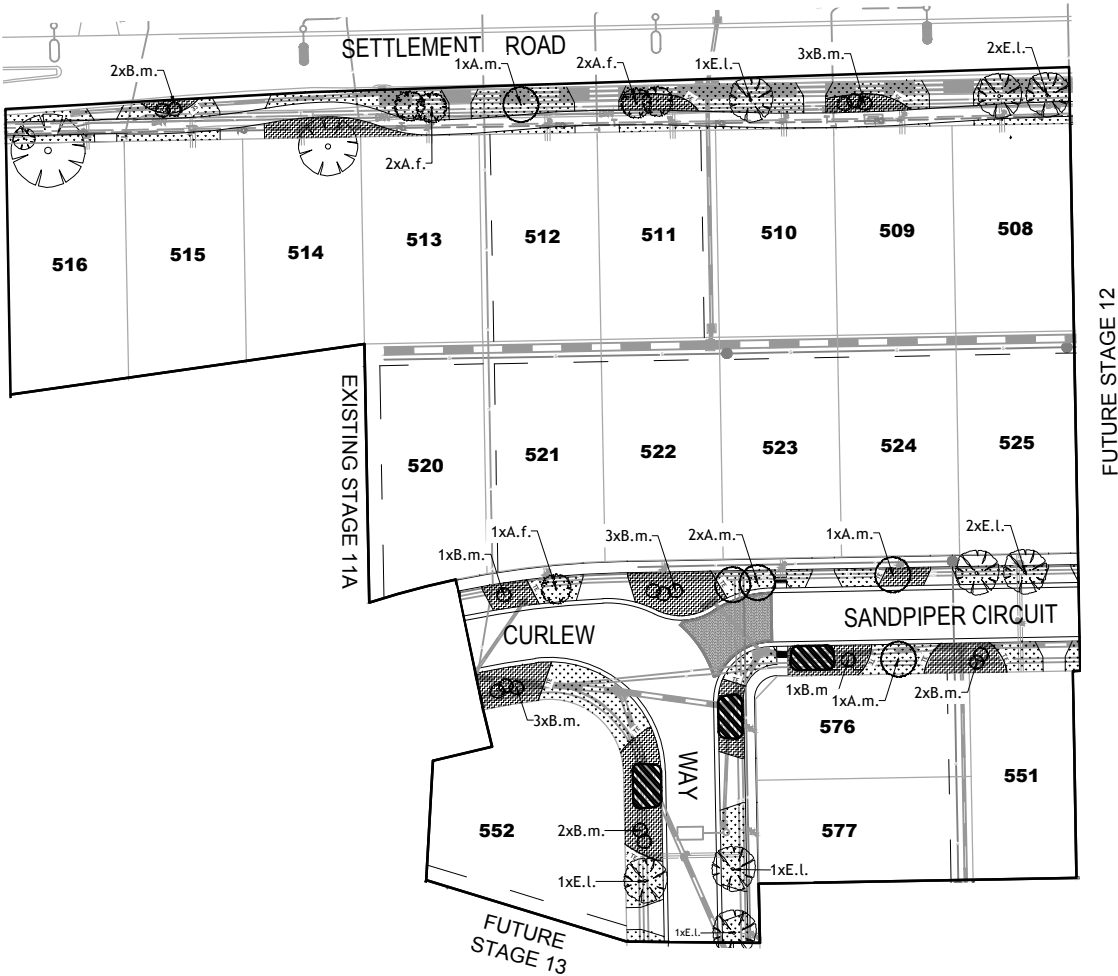
Digitally signed by  
Neil Waters  
DN: cn=Neil Waters,  
ou=Development,  
email=nnwaters@west  
ernportwater.com.au,  
c=AU  
Date: 2016.01.14  
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| PLANT SCHEDULE      |  |                  |                |                 |          |     |
|---------------------|--|------------------|----------------|-----------------|----------|-----|
| CODE                | BOTANICAL NAME                             | COMMON NAME      | HEIGHT x WIDTH | % MIX & DENSITY | POT SIZE | QTY |
| <i>Street Trees</i> |  |                  |                |                 |          |     |
| A.f.                | <i>Agonis flexuosa</i>                     | Willow Myrtle    | 7-9x4-5m       | -               | 400mm    | 5   |
| A.m.                | <i>Acacia melanoxylon</i>                  | Blackwood        | 12-16x5-7m     | -               | 45L      | 5   |
| B.m.                | <i>Banksia marginata</i>                   | Sliver Banksia   | 2x2m           | -               | 400mm    | 17  |
| E.l.                | <i>Eucalyptus leucoxylon</i> 'Eukie Dwarf' | Dwarf Yellow Gum | 9-10x7-9m      | -               | 400mm    | 8   |

| LEGEND |   |
|--------|---|
|        | STAGE BOUNDARY  |
|        | EXISTING TREE TO BE RETAINED AND PROTECTED  |
|        | PROPOSED TREES AND SHRUBS   |
|        | TERRESTRIAL PLANTING  |
|        | RAINGARDEN PLANTING IN TARRAWINGEE PEBBLES GRAVEL MULCH (Ephemeral zone)<br>Refer Detail D, L05 |
|        | SEEDED GRASS  |
|        | ELECTRICITY / STREET LIGHTS   |
|        | TIMBER EDGE Refer Detail C, L05   |
|        | TELSTRA   |
|        | GAS   |
|        | WATER   |
|        | ELECTRICITY   |
|        | DRAINAGE  |
|        | EASEMENTS   |



#### ESTABLISHMENT & MAINTENANCE NOTES

- The site is to be cleared of all debris and builder's rubble. All weed species shall be eradicated by spot spraying with approved herbicide and hand pulling. Pre-planting weed control must be undertaken no less than six weeks prior to planting.
- Approved site or imported topsoil shall be incorporated into garden beds. A 'Landscape Blend' soil mix or any weed free sandy loam/clay mix with added compost, should be added to a depth of approximately 200mm.
- Plants species shall be true to type and there should be no alterations or substitution of nominated species or cultivars without the written consent of the Landscape Architect.
- The Landscape Contractor must verify all plant quantities prior to ordering.
- All plant stock shall be checked by the Contractor and must be healthy and disease free.
- Planting must be undertaken in accordance with sound horticultural practices, with holes dug to a minimum 2.5 times the size of the root ball. Holes should be back-filled to top of root ball. Avoid excessive compaction of soil.
- All plants must be thoroughly hand watered immediately after planting.
- Slow release fertiliser, suitable for native species (eg. 9 month 'Osmocote') shall be applied at the time of planting in accordance with manufacturer's recommended dose rates and application methods.
- Terrestrial planting areas to be mulched to a minimum depth of 80mm with a eucamulch blend - refer to details.
- Raingarden areas are to be mulched with 14-20mm size Tarrawingee Pebbles gravel and lightly compacted to finished surface level of surrounding elements.
- Grassed areas to be applied by Hydramulch method to mix as specified and achieve first cut & fertilise prior to Practical Completion.
- 90x10mm flexible Redgum or treated Pine timber edge - refer to detail C, L05 - installed between grass & Terrestrial Planting / Raingarden.
- Regular maintenance must be undertaken to remove weed species. Replace any dead or diseased plants as required. Follow up turf establishment and re-top dress and seed as required.

#### GENERAL NOTES

- Refer to Landscape specification by Beveridge Williams.
- The Landscape Contractor must refer to civil engineering drawings for set out of roads (and / or carpark areas) and all infrastructure.
- This plan is intended for soft landscaping and associated landscape materials and must not be used for any other purposes.
- All survey information supplied is assumed to be correct.
- The Landscape Contractor must verify all dimensions and areas prior to commencing any work or placing any orders for materials.
- The Landscape Contractor must determine the location of all underground services prior to commencing any work on site and shall be liable for any damage to services or conduits.
- The Landscape Contractor must immediately report any perceived errors or omissions in the landscape drawings to the Project Manager and Client.
- Where any conflict occurs between proposed tree locations and infrastructure, such as light poles or powerlines, tree(s) must be relocated or removed.
- The Landscape Contractor must confirm all plant quantities prior to ordering.
- Grassed nature strips as specified.

FOR APPROVAL

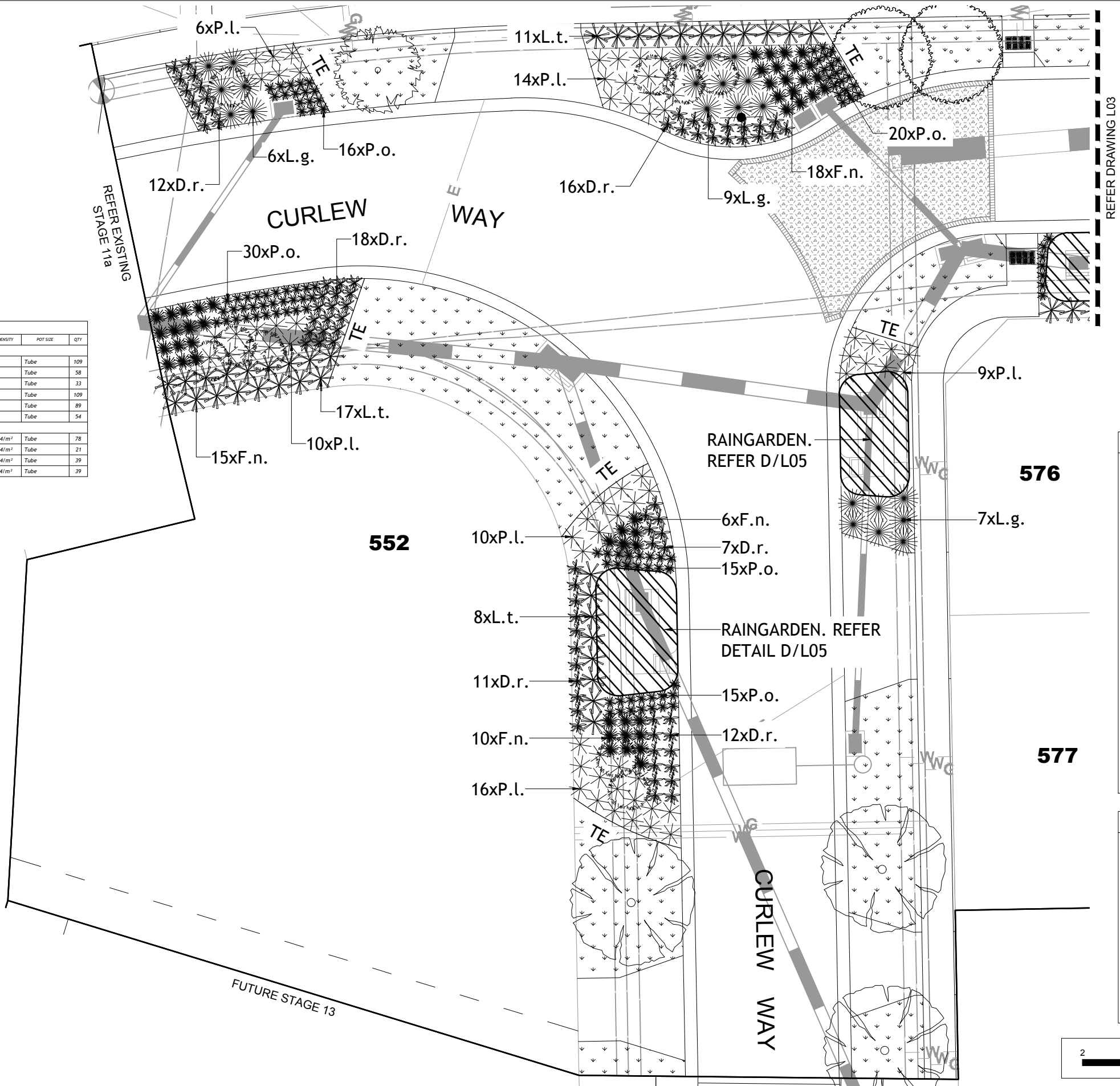


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| <div>Drawing Title</div> STAGE 11B STREET TREE PLAN   |  |  |  |  |  |  |  |  |  | <div>Project Ref.</div> 4015-11B  | <div>Drawing No.</div> L01 |  |  | <div>Rev.</div> -           |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |
| <div>Client</div> SOUTHERN SUSTAINABLE DEVELOPMENTS PTY LTD   |  |  |  |  |  |  |  |  |  |   |                            |  |  |                             |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |   |                            |  |  |                             |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |
| <div>Rev</div> <div>Description</div> <div>Date</div> <div>By</div> <div>App.</div>   |  |  |  |  |  |  |  |  |  | <div>Rev</div> <div>Description</div> <div>Date</div> <div>By</div> <div>App.</div> |                            |  |  |                             |  |  |  |  |  | <div>Drawing Ref.</div> K:\00BS DATA\4015 - SEAGROVE ESTATE\LAN\118\CAD\4015-11B LP01 CURRENT.DWG |  |  |  |  |  |  |  |  |  |





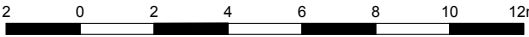
| PLANT SCHEDULE   |   |                        |                |                        |          |     |
|--|---|------------------------|----------------|------------------------|----------|-----|
| CODE   | BOTANICAL NAME                                  | COMMON NAME            | HEIGHT X WIDTH | % MIX & DENSITY        | POT SIZE | QTY |
| Terrestrial Planting (Street planting) - Tussocks & groundcovers |   |                        |                |                        |          |     |
| D.r.   | <i>Dianella revoluta</i> var <i>brevicaulis</i> | Black-anther Flax Lily | 0.8x0.8m       | -                      | Tube     | 109 |
| F.n.   | <i>Ficinia nodosa</i>                           | Knobby Club-Rush       | 1x0.8m         | -                      | Tube     | 58  |
| L.g.   | <i>Lepidosperma gladiatum</i>                   | Coast Sword Sedge      | 1x1.5m         | -                      | Tube     | 33  |
| P.o.   | <i>Potersonia occidentalis</i>                  | Purple Flag            | 0.3x0.5m       | -                      | Tube     | 109 |
| P.l.   | <i>Poa labillardieri</i>                        | Common Tussock Grass   | 1x1m           | -                      | Tube     | 89  |
| L.t.   | <i>Lomandra tanika</i>                          | Spiny Headed Mat Rush  | 1x1.2m         | -                      | Tube     | 54  |
| Ephemeral Raingarden   |   |                        |                |                        |          |     |
| C.a.   | <i>Carex appressa</i>                           | Tall Sedge             | 0.8X0.7m       | 22% @ 4/m <sup>2</sup> | Tube     | 78  |
| C.g.   | <i>Carex gaudichaudiana</i>                     | Fen Sedge              | 0.8X0.5m       | 22% @ 4/m <sup>2</sup> | Tube     | 21  |
| F.n.   | <i>Ficinia nodosa</i>                           | Knobby Club Rush       | 1x0.8m         | 44% @ 4/m <sup>2</sup> | Tube     | 39  |
| P.l.   | <i>Poa labillardieri</i>                        | Common Tussock - Grass | 0.8X0.8m       | 12% @ 4/m <sup>2</sup> | Tube     | 39  |



| LEGEND |  |
|--------|--|
|        | STAGE BOUNDARY   |
|        | EXISTING TREE TO BE RETAINED AND PROTECTED   |
|        | PROPOSED TREES AND SHRUBS  |
|        | TERRESTRIAL PLANTING   |
|        | RAINGARDEN PLANTING IN TARRAWINGEE<br>PEBBLES GRAVEL MULCH (Ephemeral zone)<br>Refer Detail D, L05 |
|        | SEEDED GRASS   |
|        | ELECTRICITY / STREET LIGHTS  |
|        | TIMBER EDGE Refer Detail C, L05  |
|        | TELSTRA  |
|        | GAS  |
|        | WATER  |
|        | ELECTRICITY  |
|        | DRAINAGE   |
|        | EASEMENTS  |

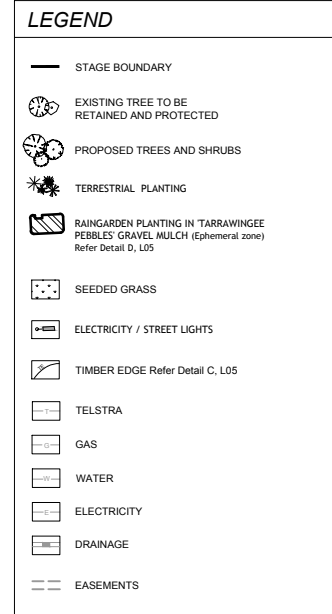
| ESTABLISHMENT & MAINTENANCE NOTES |  |
|-----------------------------------|--|
| 1.                                | The site is to be cleared of all debris and builder's rubble. All weed species shall be eradicated by spot spraying with approved herbicide and hand pulling. Pre-planting weed control must be undertaken no less than six weeks prior to planting. |
| 2.                                | Approved site or imported topsoil shall be incorporated into garden beds. A 'Landscape Blend' soil mix or any weed free sandy loam/clay mix with added compost, should be added to a depth of approximately 200mm.                                   |
| 3.                                | Plants species shall be true to type and there should be no alterations or substitution of nominated species or cultivars without the written consent of the Landscape Architect.  |
| 4.                                | The Landscape Contractor must verify all plant quantities prior to ordering.   |
| 5.                                | All plant stock shall be checked by the Contractor and must be healthy and disease free.   |
| 6.                                | Planting must be undertaken in accordance with sound horticultural practices, with holes dug to a minimum 2.5 times the size of the root ball. Holes should be back-filled to top of root ball. Avoid excessive compaction of soil.                  |
| 7.                                | All plants must be thoroughly hand watered immediately after planting.   |
| 8.                                | Slow release fertiliser, suitable for native species (eg. 9 month 'Osmocote') shall be applied at the time of planting in accordance with manufacturer's recommended dose rates and application methods.   |
| 9.                                | Terrestrial planting areas to be mulched to a minimum depth of 80mm with a eucamulch blend - refer to details.   |
| 10.                               | Raingarden areas are to be mulched with 14-20mm size 'Tarrawingee Pebbles' gravel and lightly compacted to finished surface level of surrounding elements.   |
| 11.                               | Grassed areas to be applied by Hydromulch method to mix as specified and achieve first cut & fertilise prior to Practical Completion.  |
| 12.                               | 90x10mm flexible Redgum or treated Pine timber edge - refer to detail C, L05 - installed between grass & Terrestrial Planting /Raingarden.   |
| 13.                               | Regular maintenance must be undertaken to remove weed species. Replace any dead or diseased plants as required. Follow up turf establishment and re-top dress and seed as required.  |

| GENERAL NOTES |   |
|---------------|---|
| 1.            | Refer to Landscape specification by Beveridge Williams.   |
| 2.            | The Landscape Contractor must refer to civil engineering drawings for set out of roads (and / or carpark areas) and all infrastructure.   |
| 3.            | This plan is intended for soft landscaping and associated landscape materials and must not be used for any other purposes.  |
| 4.            | All survey information supplied is assumed to be correct.   |
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| 6.            | The Landscape Contractor must determine the location of all underground services prior to commencing any work on site and shall be liable for any damage to services or conduits. |
| 7.            | The Landscape Contractor must immediately report any perceived errors or omissions in the landscape drawings to the Project Manager and Client.                                   |
| 8.            | Where any conflict occurs between proposed tree locations and infrastructure, such as light poles or powerlines, tree(s) must be relocated or removed.                            |
| 9.            | The Landscape Contractor must confirm all plant quantities prior to ordering.   |
| 10.           | Grassed nature strips as specified.   |



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1. The site is to be cleared of all debris and builder's rubble. All waste species shall be eradicated by spot spraying with approved herbicide and hand pulling. Pre-planting weed control must be undertaken no less than six weeks prior to planting.
2. Approved site or imported topsoil shall be incorporated into garden beds. A Landscape Blend soil mix or any weed free sandy loam/clay mix with added compost, should be added to a depth of approximately 200mm.
3. Plants species shall be true to type and there should be no alterations or substitution of nominated species or cultivars without the written consent of the Landscape Architect.
4. The Landscape Contractor must verify all plant quantities prior to ordering.
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6. Planting must be undertaken in accordance with sound horticultural practices, with holes dug to a minimum 2.5 times the size of the root ball. Holes should be back-filled to top of root ball. Avoid excessive compaction of soil.
7. All plants must be thoroughly hand watered immediately after planting.
8. Slow release fertiliser, suitable for native species (eg. 9 month Osmocote) shall be applied at the time of planting in accordance with manufacturer's recommended dose rates and application methods.
9. Terrestrial planting areas to be mulched to a minimum depth of 80mm with a eucalypt blend - refer to details.
10. Rain garden areas are to be mulched with 14-20mm size Tarrawingee Pebbles gravel and lightly compacted to finished surface level of surrounding elements.
11. Grassed areas to be applied by Hydromulch method to mix as specified and achieve first cut & fertilise prior to Practical Completion.
12. 90x10mm Flexible Redgum or treated Pine timber edge - refer to detail L05 - installed between grass & Terrestrial Planting / Rain garden.
13. Regular maintenance must be undertaken to remove weed species. Replace any dead or diseased plants as required. Follow up turf establishment and re-top dress and seed as required.

1. Refer to Landscape specification by Beveridge Williams.
2. The Landscape Contractor must refer to civil engineering drawings for set out of roads (and / or carpark areas) and all infrastructure.
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10. Grassed nature strips as specified.


|   |             |      |    |      |     |             |      |    |      |
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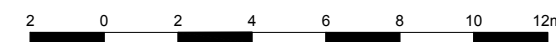
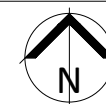
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| Designed | P.BAULCH |
| Drawn    | P.BAULCH |
| Approved | J.GREEN  |
| Date     | 04.12.15 |



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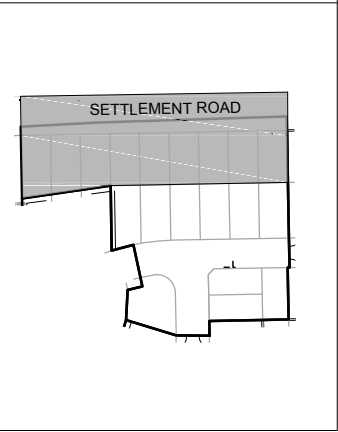
1 Glenferrie Road  
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KEY PLAN



LEGEND

|     |  |
|-----|--|
| —   | STAGE BOUNDARY   |
|     | EXISTING TREE TO BE RETAINED AND PROTECTED   |
|     | PROPOSED TREES AND SHRUBS  |
|     | TERRESTRIAL PLANTING   |
|     | RAINGARDEN PLANTING IN 'TARRAWINGEE' PEBBLES' GRAVEL MULCH (Ephemeral zone)<br>Refer Detail D, L05 |
|     | SEEDED GRASS   |
|     | ELECTRICITY / STREET LIGHTS  |
|     | SPADE DUG EDGE   |
|     | TELSTRA  |
|     | GAS  |
|     | WATER  |
|     | ELECTRICITY  |
|     | DRAINAGE   |
| --- | EASEMENTS  |

ESTABLISHMENT & MAINTENANCE NOTES

- The site is to be cleared of all debris and builder's rubble. All weed species shall be eradicated by spot spraying with approved herbicide and hand pulling. Pre-planting weed control must be undertaken no less than six weeks prior to planting.
- Approved site or imported topsoil shall be incorporated into garden beds. A 'Landscape Blend' soil mix or any weed free sandy loam/clay mix with added compost, should be added to a depth of approximately 200mm.
- Plants species shall be true to type and there should be no alterations or substitution of nominated species or cultivars without the written consent of the Landscape Architect.
- The Landscape Contractor must verify all plant quantities prior to ordering.
- All plant stock shall be checked by the Contractor and must be healthy and disease free.
- Planting must be undertaken in accordance with sound horticultural practices, with holes dug to a minimum 2.5 times the size of the root ball. Holes should be back-filled to top of root ball. Avoid excessive compaction of soil.
- All plants must be thoroughly hand watered immediately after planting.
- Slow release fertiliser, suitable for native species (eg. 9 month 'Osmocote') shall be applied at the time of planting in accordance with manufacturer's recommended dose rates and application methods.
- Terrestrial planting areas to be mulched to a minimum depth of 80mm with a eucamulch blend - refer to details.
- Raingarden areas are to be mulched with 14-20mm size 'Tarrawingee Pebbles' gravel and lightly compacted to finished surface level of surrounding elements.
- Grassed areas to be applied by Hydromulch method to mix as specified and achieve first cut & fertilise prior to Practical Completion.
- 90x10mm flexible Redgum or treated Pine timber edge - refer to detail C, L05 - installed between grass & Terrestrial Planting / Raingarden.
- Regular maintenance must be undertaken to remove weed species. Replace any dead or diseased plants as required. Follow up turf establishment and re-top dress and seed as required.

GENERAL NOTES

- Refer to Landscape specification by Beveridge Williams.
- The Landscape Contractor must refer to civil engineering drawings for set out of roads (and / or carpark areas) and all infrastructure.
- This plan is intended for soft landscaping and associated landscape materials and must not be used for any other purposes.
- All survey information supplied is assumed to be correct.
- The Landscape Contractor must verify all dimensions and areas prior to commencing any work or placing any orders for materials.
- The Landscape Contractor must determine the location of all underground services prior to commencing any work on site and shall be liable for any damage to services or conduits.
- The Landscape Contractor must immediately report any perceived errors or omissions in the landscape drawings to the Project Manager and Client.
- Where any conflict occurs between proposed tree locations and infrastructure, such as light poles or powerlines, tree(s) must be relocated or removed.
- The Landscape Contractor must confirm all plant quantities prior to ordering.
- Grassed nature strips as specified.

FOR APPROVAL

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| Project Name  | SEAGROVE ESTATE, COWES                     |
| Drawing Title | STAGE 11B LANDSCAPE PLAN - SETTLEMENT ROAD |
| Client        | SOUTHERN SUSTAINABLE DEVELOPMENTS PTY LTD  |

|               |                     |
|---------------|---------------------|
| Designed      | P.BAULCH            |
| Drawn         | P.BAULCH            |
| Approved date | J.GREEN<br>04.12.15 |



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