

# SYMBOLS

FINISHED FLOOR LEVEL F.G.L. FINISHED GARAGE LEVEL TOP OF KERB FINISHED LEVEL EXISTING LEVEL SURFACE LEVEL INVERT LEVEL ROOF CATCHMENT AREA (m2) IMPERVIOUS CATCHMENT AREA (m2) LANDSCAPED CATCHMENT AREA (m2) Ø100 DOWN PIPE OR EQUIVALENT SPREADER VERTICAL DROP

VERTICAL RISER OF SAFETY OVERFLOW

RAIN WATER HEAD & DOWN PIPE **CLEAN OUT POINT** 

⊜ SUMP Ø150 SUMP

CONCRETE COVER JUNCTION PIT

GRATED INLET PIT 450x450 200Wx100D GRATED DRAIN WITH 2% BTM SLOPE

STORMWATER PIPE SUSPENDED STORMWATER PIPE STORMWATER PIPE TO RWT \_\_\_ PUMP LINE

Ø100 SUBSOIL PIPE \_\_\_\_ SILT FENCE  $\bigcirc$ **OVERLAND FLOW** 

### **EROSION CONTROL NOTES**

**FALLS** 

1. ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION. 2. ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR

LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC. 3. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT

LADDEN WATER, TO COUNCIL'S STANDARDS 4. NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN

WATERS ACT. 5. ALL TOPSOIL TO BE CONSERVED FOR RE-USE ON SITE

1. ALL LINES ARE TO BE Ø100 U.P.V.C @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWER GRADE & SEALED.

2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.

3. ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY. 4. ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO

BE 450x450 PLASTIC. PITS LESS THAN 600 DEEP MAY BE BRICK, PRECAST OR CONCRETE.

PITS DEEPER THAN 900 MUST BE 900x900 AND HAVE STEP RUNGS AT 300 CENTRES. ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN

ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS. 8. ALL EXTERNAL SLABS TO BE WATERPROOFED.

9. ALL GRATES TO HAVE CHILD PROOF LOCKS. 10. ALL DRAINAGE WORKS TO AVOID TREE ROOTS.

11. ALL DP'S TO HAVE LEAF GUARDS

12. ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION. 13. ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO

LEVELS ONCE ISSUED BY COUNCIL.

CONSTRUCTION. 14. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED

15. ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3.

16. EXISTING STORMWATER PIPE LOCATIONS HAVE BEEN ASSUMED. PLUMBER TO INSPECT PRIOR TO WORKS AND UPGRADE PIPES AS NECESSARY.

ROOF DRAINAGE PLAN

1. MINIMUM ROOF FALL 1% TO OUTLETS

2. WATERPROOF ALL CONCRETE ROOFS

3. PROVIDE SAFETY OVERFLOW TO ALL ROOFS

4. ALL DOWNPIPES CHARGED TO THE RAINWATER TANK ARE TO BE SEALED UP TO GUTTER

LEVEL & BE PRESSURE TESTED AND CERTIFIED.

5. ALL DOWNPIPES TO BE CONSTRUCTED OF ONE MATERIAL FOR AESTHETICS REASONS AND PAINTED TO PROTECT THEM AGAINST ULTRA-VIOLET LIGHT DAMAGE.

REFER TO DRAWING No. SW04 & SW05 FOR ALL DRAINAGE DETAILS

# ISSUE FOR DA ONLY

|     | Davidalara |                            |
|-----|------------|----------------------------|
|     | Revision   |                            |
| Rev | Date       | Description                |
| Α   | 05.12.2024 | ISSUE FOR DA               |
| В   | 02.05.2025 | ISSUE FOR DA (SW REDESIGN) |
|     |            |                            |
|     |            |                            |
|     |            |                            |
|     |            |                            |
|     |            |                            |

PROJECT: PROPOSED NEW RESIDENCE 2 PRINCE EDWARD ROAD,

COUNCIL: NORTHERN BEACHES

CLIENT: SOPHIA & STUART NAYLOR

BUILDER:

SEAFORTH

ARCHITECT: NEW PARADIGM DESIGN PTY LTD

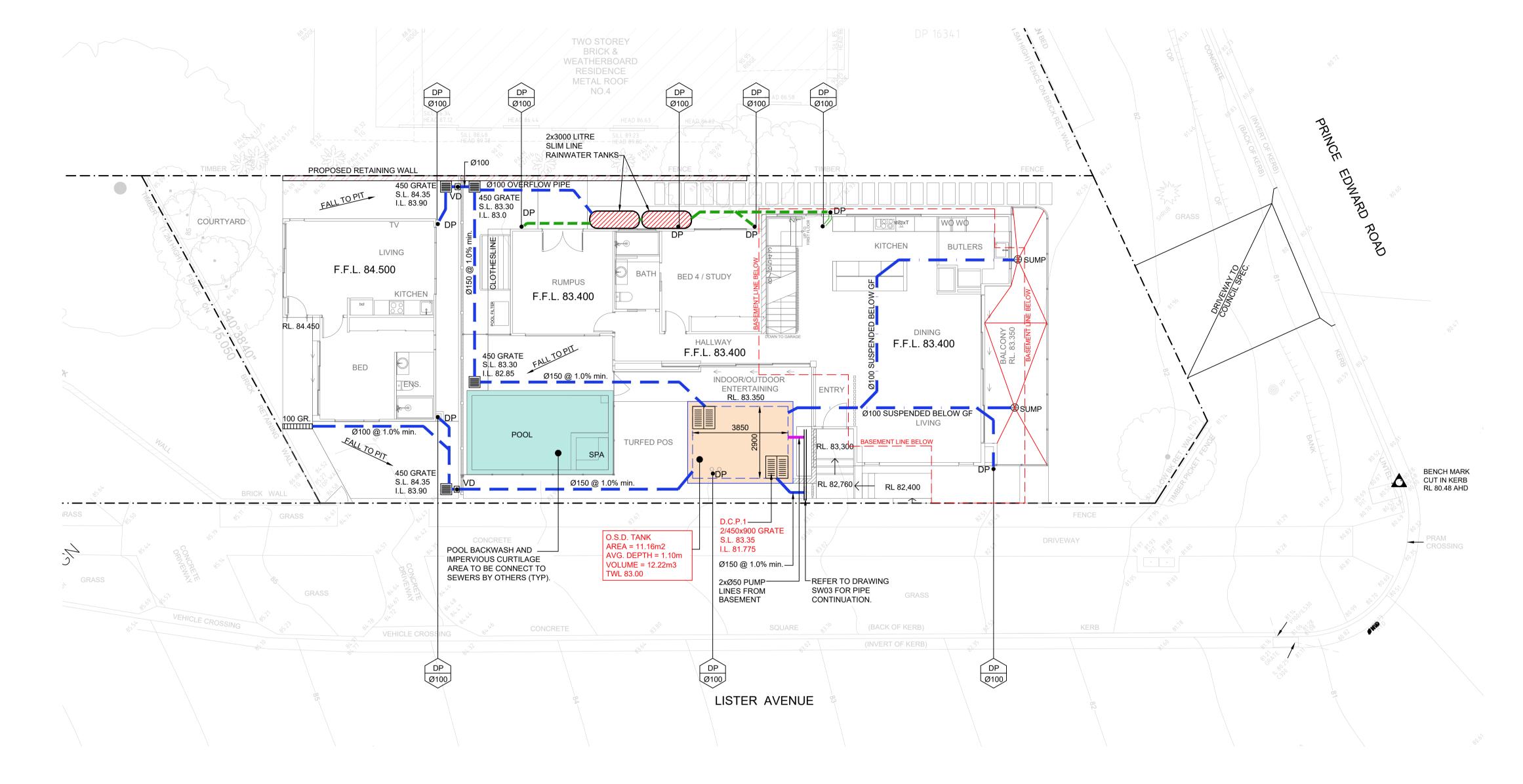
DRAWING TITLE: ROOF DRAINAGE PLAN



3/10 Childs Road, Chipping Norton, NSW 2170 e: info@neconsultants.com.au ABN:97 672 826 345 ACN: 672 826 345

J.T. V.S. APPROVED: JOSEPH SAAD TANNOUS SIZE: JOB No: REVI DRAWING No: SW01





SYMBOLS FINISHED FLOOR LEVEL FINISHED GARAGE LEVEL TOP OF KERB FINISHED LEVEL EXISTING LEVEL SURFACE LEVEL INVERT LEVEL ROOF CATCHMENT AREA (m2) IMPERVIOUS CATCHMENT AREA (m2) LANDSCAPED CATCHMENT AREA (m2) Ø100 DOWN PIPE OR EQUIVALENT SPREADER VERTICAL DROP VERTICAL RISER SAFETY OVERFLOW

RAIN WATER HEAD & DOWN PIPE

**CLEAN OUT POINT** ⊜ SUMP CONCRETE COVER JUNCTION PIT

GRATED INLET PIT 450x450 200Wx100D GRATED DRAIN WITH 2% BTM SLOPE STORMWATER PIPE

SUSPENDED STORMWATER PIPE PUMP LINE Ø100 SUBSOIL PIPE

SILT FENCE  $\bigcirc$ OVERLAND FLOW **FALLS** 

### **EROSION CONTROL NOTES**

1. ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION.

ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC.

INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADDEN WATER, TO COUNCIL'S STANDARDS

4. NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.

5. ALL TOPSOIL TO BE CONSERVED FOR RE-USE ON SITE

1. ALL LINES ARE TO BE Ø100 U.P.V.C @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWER GRADE & SEALED.

2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.

4. ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 PLASTIC.

3. ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.

PITS LESS THAN 600 DEEP MAY BE BRICK, PRECAST OR CONCRETE.

PITS DEEPER THAN 900 MUST BE 900x900 AND HAVE STEP RUNGS AT 300 CENTRES.

ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.

8. ALL EXTERNAL SLABS TO BE WATERPROOFED. 9. ALL GRATES TO HAVE CHILD PROOF LOCKS.

10. ALL DRAINAGE WORKS TO AVOID TREE ROOTS.

11. ALL DP'S TO HAVE LEAF GUARDS

12. ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION. 13. ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.

14. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.

15. ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3. 16. EXISTING STORMWATER PIPE LOCATIONS HAVE BEEN ASSUMED. PLUMBER TO INSPECT

PRIOR TO WORKS AND UPGRADE PIPES AS NECESSARY.

# GROUND FLOOR DRAINAGE PLAN

### SCALE 1:100

1. MINIMUM ROOF FALL 1% TO OUTLETS

WATERPROOF ALL CONCRETE ROOFS

PROVIDE SAFETY OVERFLOW TO ALL ROOFS

4. ALL BALCONIES TO HAVE FLOOR WASTE AND 1% FALL WITH SAFETY OVERFLOW 5. ALL DOWNPIPES CHARGED TO THE RAINWATER TANK ARE TO BE SEALED UP TO GUTTER

LEVEL & BE PRESSURE TESTED AND CERTIFIED.

6. ALL DOWNPIPES TO BE CONSTRUCTED OF ONE MATERIAL FOR AESTHETICS REASONS AND PAINTED TO PROTECT THEM AGAINST ULTRA-VIOLET LIGHT DAMAGE.

REFER TO DRAWING No. SW04 & SW05 FOR ALL DRAINAGE DETAILS

|     | ISSUE FOR DA ONLY |                            |  |  |  |  |  |
|-----|-------------------|----------------------------|--|--|--|--|--|
| R   | Revision          |                            |  |  |  |  |  |
| Rev | Date              | Description                |  |  |  |  |  |
| Α   | 05.12.2024        | ISSUE FOR DA               |  |  |  |  |  |
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|     |                   |                            |  |  |  |  |  |
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PROJECT: PROPOSED NEW RESIDENCE 2 PRINCE EDWARD ROAD, SEAFORTH

COUNCIL: NORTHERN BEACHES

SOPHIA & STUART NAYLOR

BUILDER:

ARCHITECT:

NEW PARADIGM DESIGN PTY LTD

DRAWING TITLE: GROUND FLOOR DRAINAGE PLAN

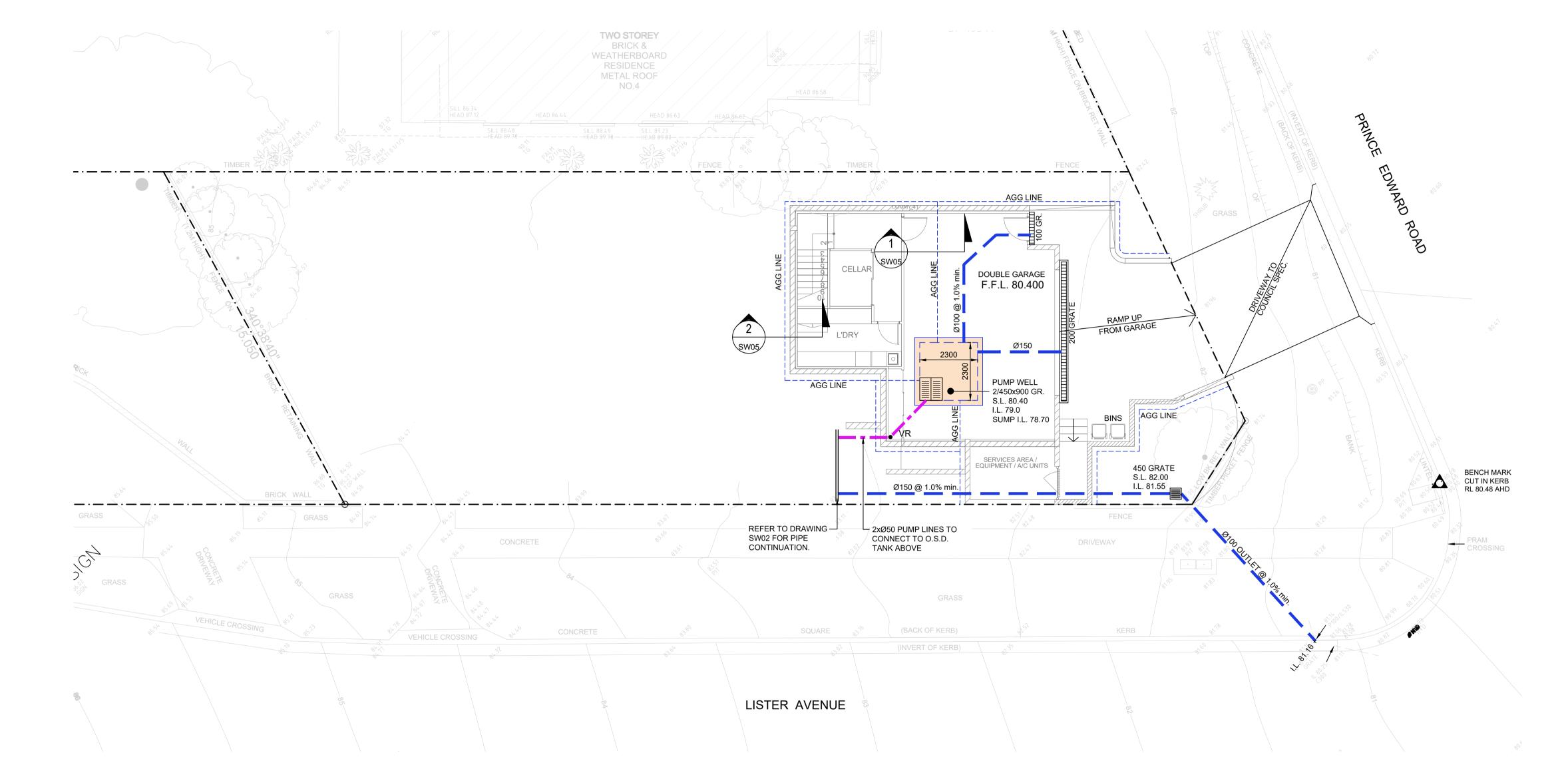


3/10 Childs Road, Chipping Norton, NSW 2170 e: info@neconsultants.com.au ABN:97 672 826 345

ACN: 672 826 345

V.S. APPROVED: JOSEPH SAAD TANNOUS SIZE: JOB No: REVI





1. ENGINEER TO INSPECT D.C.P.1 DURING CONSTRUCTION

2. MINIMUM ROOF FALL 1% TO OUTLETS

4. PROVIDE SAFETY OVERFLOW TO ALL ROOFS

5. ALL BALCONIES TO HAVE FLOOR WASTE AND 1% FALL WITH SAFETY OVERFLOW 6. ALL DOWNPIPES CHARGED TO THE RAINWATER TANK ARE TO BE SEALED UP TO GUTTER

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REFER TO DRAWING No. SW04 &

# BASEMENT DRAINAGE PLAN

3. WATERPROOF ALL CONCRETE ROOFS

SW05 FOR ALL DRAINAGE DETAILS

# ISSUE FOR DA ONLY

| F   | Revision   |                            |  |  |  |  |  |  |  |
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PROJECT: PROPOSED NEW RESIDENCE 2 PRINCE EDWARD ROAD,

COUNCIL: NORTHERN BEACHES

SEAFORTH

SOPHIA & STUART NAYLOR

BUILDER:

ARCHITECT: NEW PARADIGM DESIGN PTY LTD

DRAWING TITLE: BASEMENT DRAINAGE PLAN



3/10 Childs Road, Chipping Norton, NSW 2170 e: info@neconsultants.com.au ABN:97 672 826 345

ACN: 672 826 345 J.T. V.S. APPROVED: JOSEPH SAAD TANNOUS SIZE: JOB No: REVISION: B DRAWING No: SW03

### LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC. 3. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT

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WATERS ACT. 5. ALL TOPSOIL TO BE CONSERVED FOR RE-USE ON SITE

SYMBOLS

OF

⊜ SUMP

 $\bigcirc$ 

FINISHED FLOOR LEVEL FINISHED GARAGE LEVEL

ROOF CATCHMENT AREA (m2) IMPERVIOUS CATCHMENT AREA (m2) LANDSCAPED CATCHMENT AREA (m2) Ø100 DOWN PIPE OR EQUIVALENT

TOP OF KERB

FINISHED LEVEL

EXISTING LEVEL SURFACE LEVEL INVERT LEVEL

SPREADER VERTICAL DROP VERTICAL RISER

SAFETY OVERFLOW

**CLEAN OUT POINT** 

RAIN WATER HEAD & DOWN PIPE

CONCRETE COVER JUNCTION PIT

SUSPENDED STORMWATER PIPE STORMWATER PIPE TO RWT

200Wx100D GRATED DRAIN WITH 2% BTM SLOPE

GRATED INLET PIT 450x450

STORMWATER PIPE

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**OVERLAND FLOW** 

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**FALLS** 

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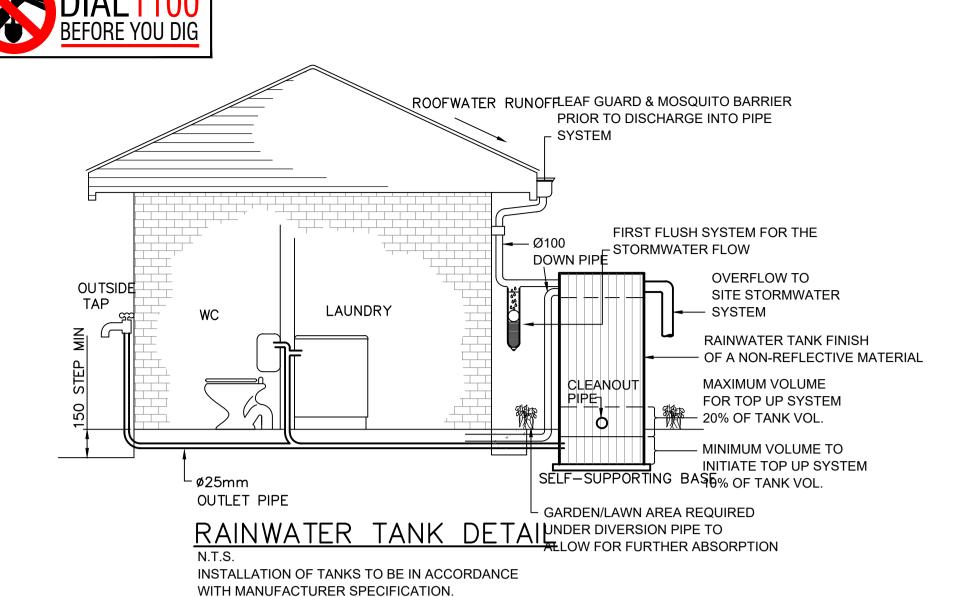
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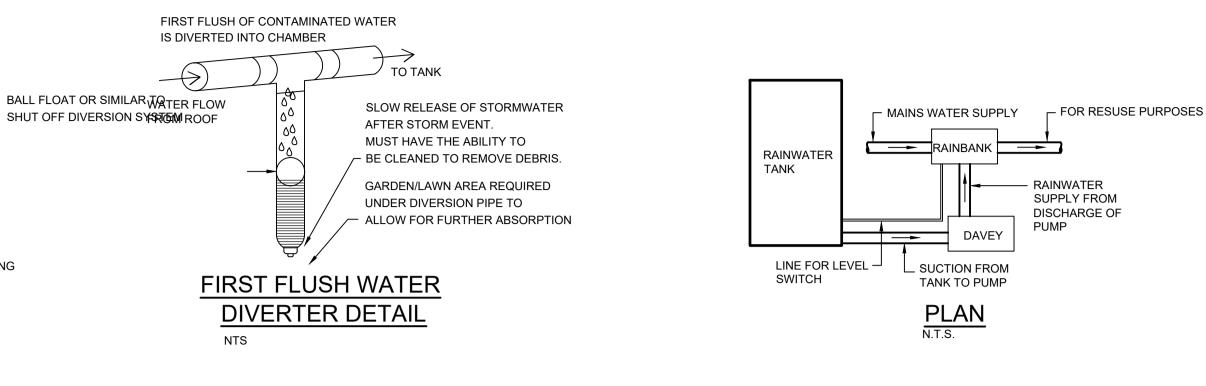
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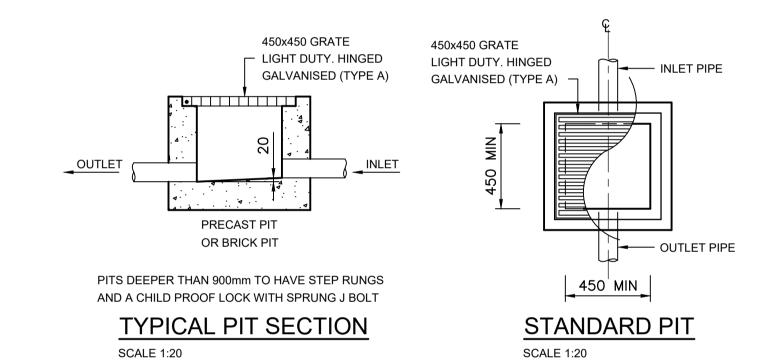


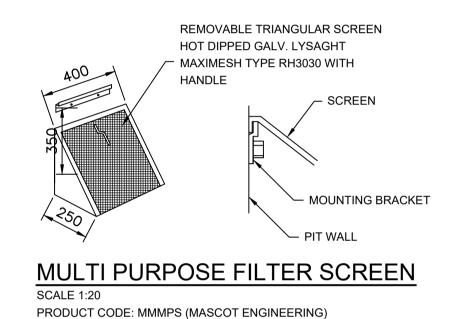
### RAINWATER TANK TO COMPLY WITH BASIX CERTIFICATE

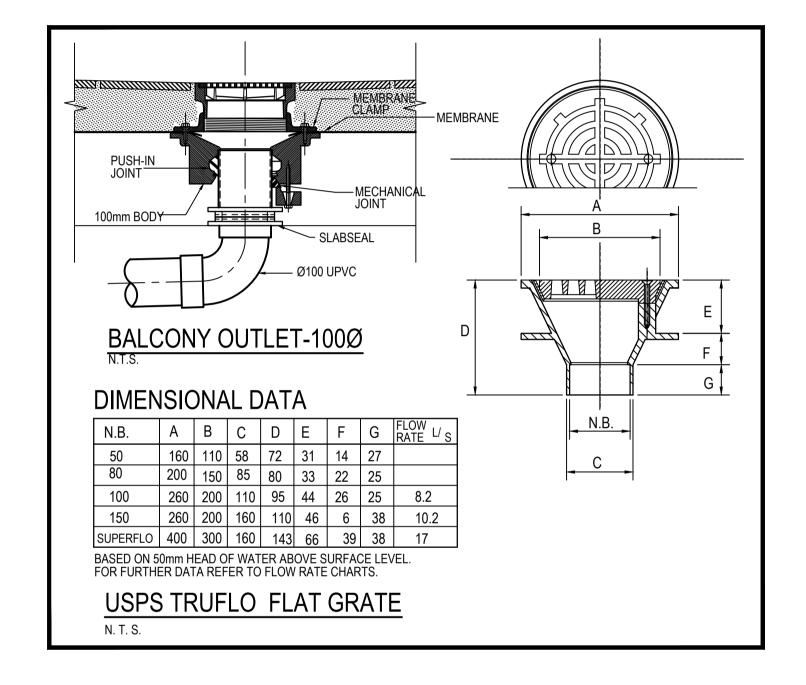
### STORAGE TANK NOTES

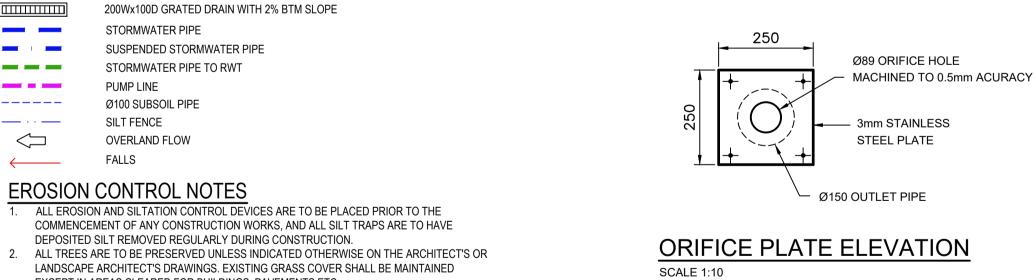
- TANK WATER TAPS SHALL BE MARKED "RAINWATER NOT TO BE USED FOR HUMAN CONSUMPTION"
- MINIMUM TANK SIZE 6000 LITRES (2x3000 LITRE RAINWATER TANKS PROVIDED) RAINWATER TANKS SHALL BE CONNECTED TO MAINS WATER SUPPLY AS BACKUP
- THE PUMPS ARE TO BE INSULATED IN ACCORDANCE WITH COUNCIL POLICY PUMPS SHALL PROVIDE MINIMUM 150 kPa PRESSURE
- TANK TO BE CONNECTED TO AN OUTDOOR TAP FOR IRRIGATION USE TANK TO BE CONNECTED TO ALL TOILETS FOR TOILET FLUSHING
- RAINWATER TANKS TO BE CLEANED OUT EVERY 6 MONTHS
- WATER TANK AND ASSOCIATED STRUCTURE TO BE THE SAME COLOUR, OR A COLOUR COMPLEMENTARY TO THE DWELLING
- TOP OF TANK TO BE BELOW TOP OF NEAREST FENCE, OR 1.8 METRES, WHICHEVER IS LESSER. THE WATER TANK SHOULD BE LOCATED AT LEAST 900mm FROM ANY PROPERTY BOUNDARY
- 11. PLUMBING FROM THE WATER TANK IS TO BE KEPT SEPARATE FROM THE RETICULATED WATER SUPPLY SYSTEM 12. TANK TO BUILT ON SELF-SUPPORTING BASE
- 13. PROVIDE BACK-FLOW PREVENTION DEVICE AT MAINS WATER METER
- 14. ROOF DRAINING TO TANK MUST NOT CONTAIN LEAD, TAR BASED PAINTS OR ASBESTOS
- 15. WATER TO BE DRAWN FROM ANAEROBIC ZONE OF TANK













SPACE WARNING SIGN

| RIFICE PLATE ELEVATION | CONFINED SI |
|------------------------|-------------|
| _E 1:10                |             |
|                        |             |

**SUMMARY CALCULATIONS** 

QTotal

8

13

TWL

51.37

82.96

VOLUME

4.63

12.0

QPost QByPass

REFER TO DRAINS FILES FOR ALL STORM EVENTS

12.22m3 OF OSD STORAGE HAS BEEN PROVIDED IN BELOW GROUND TANK.

TOTAL SITE AREA = 494m2

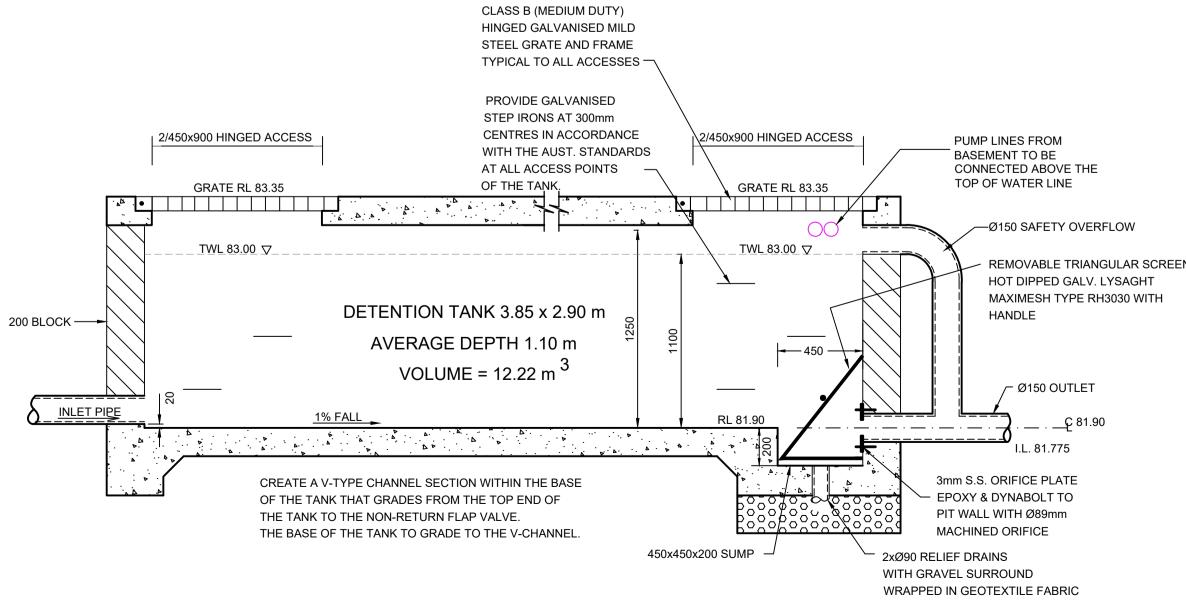
QPre

13

ARI

5

100



SECTION THROUGH DETENTION TANK D.C.P.1 SCALE 1:20

|                |                           | CLASS B (MEDIUM DUTY)         |                  |   |   |
|----------------|---------------------------|-------------------------------|------------------|---|---|
|                |                           | HINGED GALVANISED MILE        | D                |   |   |
|                |                           | STEEL GRATE AND FRAME         | <b></b>          |   |   |
|                |                           | TYPICAL TO ALL ACCESSE        | S                |   |   |
|                |                           |                               |                  |   |   |
|                |                           | PROVIDE GALVANISED            |                  |   |   |
|                |                           | STEP IRONS AT 300mm           |                  |   |   |
|                | 1 2/450x900 HINGED ACCESS | CENTRES IN ACCORDANC          | E \\2/450x900 H  | IINGED ACCESS 1                         | PUMP LINES FROM                             |
|                |                           | WITH THE AUST. STANDAR        | \                |   | BASEMENT TO BE                              |
|                |                           | AT ALL ACCESS POINTS          | _ ' \            | ' /                                     | CONNECTED ABOVE THE                         |
|                | GRATE RL 83.35            | OF THE TAŅK,                  | \ GRA            | TE RL 83.35                             | TOP OF WATER LINE                           |
| · 44 ·         |                           | 4 4 4 4                       |                  |   |   |
| <u> </u>       | [A. A. A.                 |                               | 4                |   | ✓—Ø150 SAFETY OVERFLOW                      |
|                |                           | 1 1                           |                  |   | DISU SALETI OVERI EOW                       |
|                | TWL 83.00 🗸               |                               |                  | . 83.00 🗸                               | DEMOVABLE TRIANGULAR COREEN                 |
|                |                           |                               |                  |   | REMOVABLE TRIANGULAR SCREEN                 |
|                |                           |                               |                  |   | HOT DIPPED GALV. LYSAGHT                    |
|                | DETE                      | NTION TANK 3.85 x 2.90 m      |                  |   | MAXIMESH TYPE RH3030 WITH                   |
| 200 BLOCK —— \ | DETE                      | TAINE 3.03 X 2.30 III         |                  | \ \\                                    | i HANDLE                                    |
|                | — A\                      | ′ERAGE DEPTH 1.10 m           | 1100             | 1 -450                                  | <u>[</u>                                    |
|                |                           | •                             |                  | 450                                     | i i   |
|                |                           | VOLUME = 12.22 m <sup>3</sup> |                  |   |   |
|                |                           |                               |                  |   | √ Ø150 OUTLET                               |
| NLET PIPE      | 1% FALL                   |                               |                  |   | <u> </u>                                    |
| <u> </u>       | 7=                        | D                             | RL 81.90         | <u>-</u>                                | <u>C</u> 81.90                              |
|                |                           | Δ ν                           |                  |   | I.L. 81.775                                 |
|                | *                         |                               |                  |   |   |
|                | CREATE A V-TYPE CHA       | NNEL SECTION WITHIN THE BASE  |                  |   | 3mm S.S. ORIFICE PLATE                      |
| <u> </u>       | OF THE TANK THAT GF       | ADES FROM THE TOP END OF      | - · ·            | 0 0 0 0 0 0 0 0 0 0 0                   | <ul> <li>EPOXY &amp; DYNABOLT TO</li> </ul> |
|                | THE TANK TO THE NO        | -RETURN FLAP VALVE.           | F 2 0            |   | PIT WALL WITH Ø89mm                         |
|                | THE BASE OF THE TAN       | K TO GRADE TO THE V-CHANNEL.  | Po-C             | 20/000000000000000000000000000000000000 | MACHINED ORIFICE                            |
|                |                           |                               | 450x450x200 SUMP |   | RELIEF DRAINS                               |
|                |                           |                               |                  |   | GRAVEL SURROUND                             |
|                |                           |                               |                  |   | PED IN GEOTEXTILE FABRIC                    |
|                |                           |                               |                  |   |   |

### NATIONAL ENGINEERING CONSULTANTS PTY LTD 3/10 Childs Road, Chipping Norton, NSW 2170 e: info@neconsultants.com.au ABN:97 672 826 345 ACN: 672 826 345 V.S. APPROVED: JOSEPH SAAD TANNOUS SIZE: BEng (Hons), MIEAust, CPEng 24-1086 SW04

ISSUE FOR DA ONLY

Description

B 02.05.2025 ISSUE FOR DA (SW REDESIGN)

PROPOSED NEW RESIDENCE

2 PRINCE EDWARD ROAD,

NORTHERN BEACHES

SOPHIA & STUART NAYLOR

NEW PARADIGM DESIGN PTY LTD

A 05.12.2024 ISSUE FOR DA

Revision

PROJECT:

SEAFORTH

COUNCIL:

CLIENT:

BUILDER:

**ARCHITECT:** 

DRAWING TITLE:

DRAINAGE DETAILS

www.dialbeforeyoudig.com.au

- 1. ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE
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SYMBOLS

F.G.L.

\* 11.0

20 L

OF

⊜ SUMP

FINISHED FLOOR LEVEL

FINISHED GARAGE LEVEL

ROOF CATCHMENT AREA (m2)

IMPERVIOUS CATCHMENT AREA (m2)

LANDSCAPED CATCHMENT AREA (m2)

Ø100 DOWN PIPE OR EQUIVALENT

RAIN WATER HEAD & DOWN PIPE

CONCRETE COVER JUNCTION PIT

GRATED INLET PIT 450x450

TOP OF KERB

FINISHED LEVEL

EXISTING LEVEL

SURFACE LEVEL

INVERT LEVEL

SPREADER

VERTICAL DROP

VERTICAL RISER

SAFETY OVERFLOW

**CLEAN OUT POINT** 

Ø150 SUMP

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COMPONENTS

1. 2 x ALINE, MODEL AL750-1, 0.75kW, 240 VOLT SUBMERSIBLE PUMPS

2. 2x ALINE DIFFERENTIAL FLOAT SWITCHES MODEL 9006 COMPLETE WITH 20m CABLES.

3. 1x DUAL DOL CONTROL PANEL WITH: MAIN ISOLATING SWITCH

AUTOMATIC ALTERNATION

MANUAL/OFF/AUTO SWITCH FOR EACH PUMP CIRCUIT BREAKERS FOR EACH MOTOR AND CONTROL CIRCUIT.

LIGHTS, CODED DATA OUTPUT FOR BMS CONNECTION AUDIBLE ALARM WITH MUTE BUTTON

4. SET OF VALVES AND FITTINGS TO SUIT

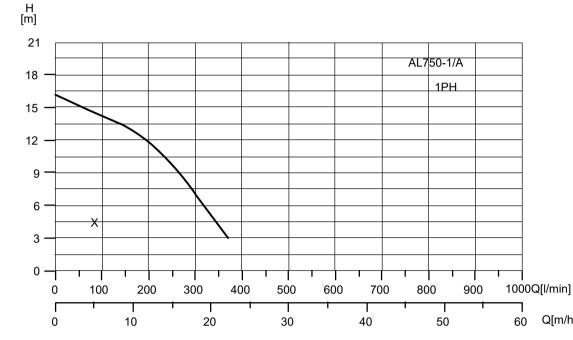
5. INSTRUCTION AND MAINTENANCE MANUAL

6. NOTE: CONDUIT FROM PIT TO WALL SHOULD BE MINIMUM 50mm (OR 2x32 mm) WITH LONG RADIUS BENDS

POWER REQUIREMENTS: 240 VOLTS, 0.75 KW & 6 AMPS EACH PUMP

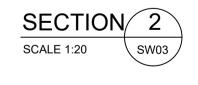
| TYPI          | E    | HF  | KW      |     | UOUS AN<br>TING |        | PERATIN<br>MPERATI |     | VOLTAGE | AUTO/<br>MANUAL      | DISCHARGE<br>(MM) | CABLE<br>LENGTH |
|---------------|------|-----|---------|-----|-----------------|--------|--------------------|-----|---------|----------------------|-------------------|-----------------|
| Oper<br>Chann |      | 1.0 | 0.75    |     | 6               | 0,     | °C to 40°0         | 0   | 240V    | Manual/<br>Automatic | 50                | 10M             |
|               |      |     |         |     |                 |        |                    |     |         |                      |                   |                 |
| OU.           | TLET |     | MAX FLC | W   | FLOW            | AT M H | EAD (LPI           | M)  | MAX HEA | DIME                 | ENSIONS           | WEIGHT          |
| MM            | INC  | Н   | (LPM)   | 3M  | 6M              | 9M     | 12M                | 15M | (M)     | LXW                  | X H (MM)          | (KG)            |
| 50            | 2"   |     | 380     | 370 | 320             | 270    | 190                | 50  | 13      | 525 x                | 250 x 280         | 27              |

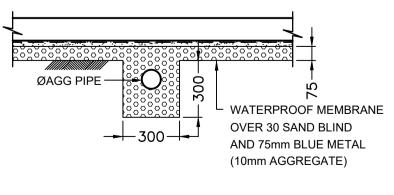
### PUMP SPECIFICATIONS



PUMP PERFORMANCE CURVE

### APPLY WATER PROOF CLEANOUT MEMBRANE BASEMENT Ø100 AGG PIPE IN RUBBLE DRAIN, CONNECT TO FREE OUTLET 25mm MIN. SINGLE SIZED AGGREGATE WATERPROOF MEMBRANE OVER 30 SAND BLIND AND 75mm BLUE METAL (10mm AGGREGATE)







SYMBOLS FINISHED FLOOR LEVEL F.G.L. FINISHED GARAGE LEVEL T.K. TOP OF KERB \* 11.0 FINISHED LEVEL + 11.0 EXISTING LEVEL SURFACE LEVEL INVERT LEVEL ROOF CATCHMENT AREA (m2) IMPERVIOUS CATCHMENT AREA (m2) 20 L LANDSCAPED CATCHMENT AREA (m2) Ø100 DOWN PIPE OR EQUIVALENT SPREADER VERTICAL DROP VERTICAL RISER

OF SAFETY OVERFLOW RAIN WATER HEAD & DOWN PIPE

**CLEAN OUT POINT** ⊜ SUMP Ø150 SUMP

CONCRETE COVER JUNCTION PIT GRATED INLET PIT 450x450

200Wx100D GRATED DRAIN WITH 2% BTM SLOPE

STORMWATER PIPE SUSPENDED STORMWATER PIPE STORMWATER PIPE TO RWT PUMP LINE Ø100 SUBSOIL PIPE

SILT FENCE  $\bigvee$ OVERLAND FLOW

**EROSION CONTROL NOTES** 

1. ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORKS, AND ALL SILT TRAPS ARE TO HAVE DEPOSITED SILT REMOVED REGULARLY DURING CONSTRUCTION.

ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT

LADDEN WATER, TO COUNCIL'S STANDARDS NOT WITHSTANDING DETAILS SHOWN IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN

WATERS ACT.

5. ALL TOPSOIL TO BE CONSERVED FOR RE-USE ON SITE

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## PUMP WELL DETAILS

SUMP SIZE AND PUMP SIZE BASE ON 100 YEAR 2 HOUR STORM INTENSITY IS 62.3 mm/hr, AREA DRAINING TOWARDS SUMP IS 48m2

Q=CIA/3600 =1.0x62.3x48/3600 = 0.83 l/s

VOLUME REQUIRED IS 0.83x(2x60x60) = 5,976 litres STORAGE PROVIDED 2300x2300x1200 = 6,348 litres

THEREFORE ADEQUATE STROAGE PROVIDED

USE DUAL AL750-1A OR SIMILAR

TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL

WHICH WILL ALLOW FOR THE PUMPS TO ACT ALTERNATIVELY

AT 3.53m HEAD

### STANDARD PUMP OUT DESIGN NOTES

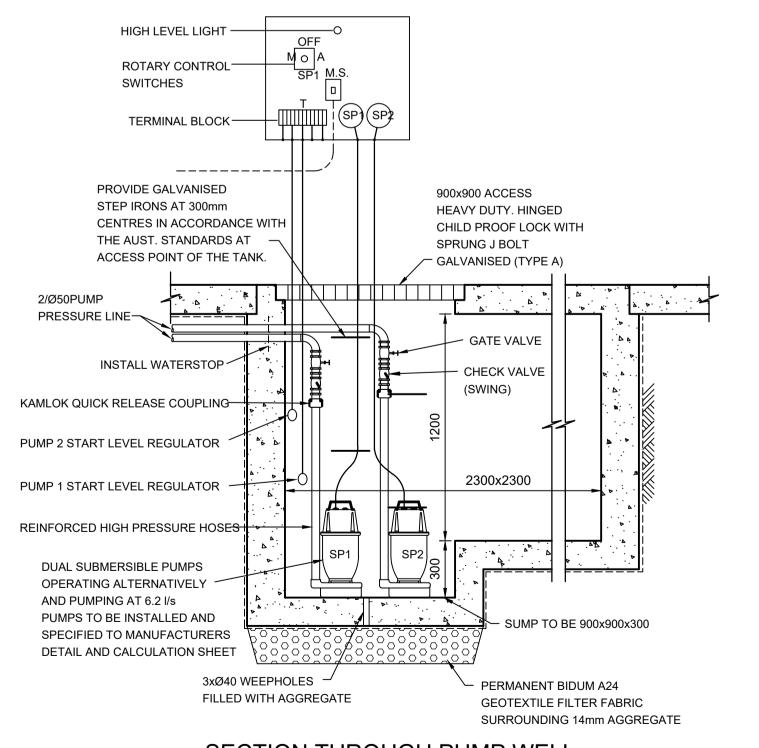
THE PUMP SHALL BE PROGRAMMED TO WORK ALTERNATIVELY SO AS TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.

A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.

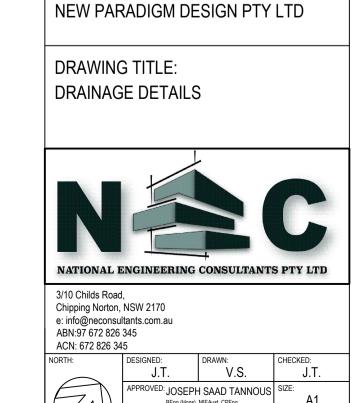
A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.

A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.

AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT AN A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.



# SECTION THROUGH PUMP WELL



24-1086

SW05

ISSUE FOR DA ONLY

Description

B 02.05.2025 ISSUE FOR DA (SW REDESIGN)

PROPOSED NEW RESIDENCE

2 PRINCE EDWARD ROAD,

NORTHERN BEACHES

SOPHIA & STUART NAYLOR

A 05.12.2024 ISSUE FOR DA

Revision

PROJECT:

SEAFORTH

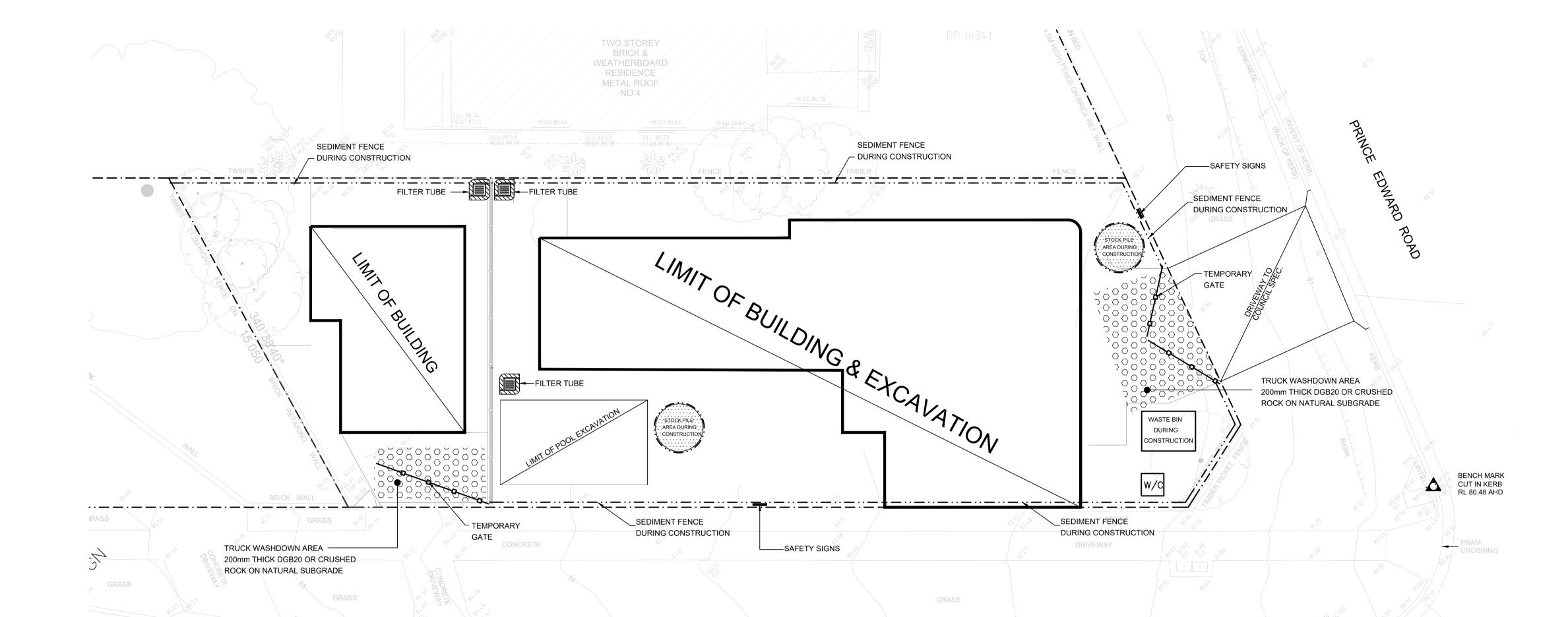
COUNCIL:

CLIENT:

BUILDER:

ARCHITECT:





LISTER AVENUE

### STORMWATER PIPE SUSPENDED STORMWATER PIPE

GRATED INLET PIT 450x450

FINISHED FLOOR LEVEL

FINISHED GARAGE LEVEL

ROOF CATCHMENT AREA (m2) IMPERVIOUS CATCHMENT AREA (m2) LANDSCAPED CATCHMENT AREA (m2) Ø100 DOWN PIPE OR EQUIVALENT

TOP OF KERB

FINISHED LEVEL

EXISTING LEVEL

SURFACE LEVEL

INVERT LEVEL

SPREADER VERTICAL DROP VERTICAL RISER

SAFETY OVERFLOW

**CLEAN OUT POINT** 

RAIN WATER HEAD & DOWN PIPE

CONCRETE COVER JUNCTION PIT

200Wx100D GRATED DRAIN WITH 2% BTM SLOPE

STORMWATER PIPE TO RWT PUMP LINE Ø100 SUBSOIL PIPE

SILT FENCE  $\bigvee$ OVERLAND FLOW

SYMBOLS

F.G.L.

OF

⊜ SUMP

**EROSION CONTROL NOTES** 

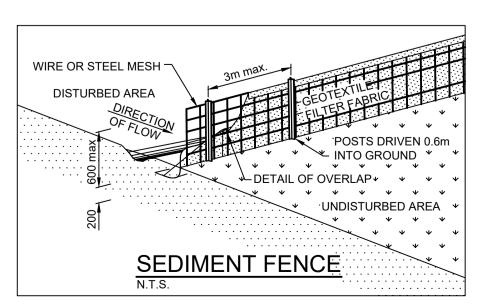
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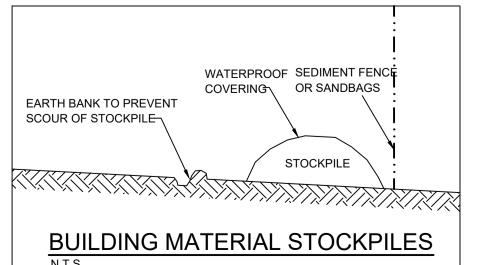
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CONSTRUCTION SITE BERM (O.3m MIN. HEIGHT)-MIN LENGTH 3m GEOTEXTILE/ **FABRIC** RUNOFF DIRECTED EXISTING ROADWAY-TO SEDIMENT TRAP TEMPORARY CONSTRUCTION EXIT



SOIL & WATER MANAGEMENT PLAN

NOTE: CONNECT DOWN PIPES AS SOON AS ROOF IS ON.



\* ,KERB & \* .

STORMWATER PIT-

# SEDIMENT CONTROL NOTES

FILTER TUBE SILT TRAP

FILTER TUBE FILLED -

WITH BLUE METAL

N.T.S.

ALL EROSION AND SEDIMENTATION CONTROL MEASURES, INCLUDING REVEGETATION AND STORAGE OF SOIL, SHALL BE IMPLEMENTED TO THE

WITH FILTER TUBE

- STANDARDS OF SOIL CONSERVATION N.S.W.
- 2. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILIZED AS
- EARLY AS POSSIBLE DURING DEVELOPMENT. SEDIMENT TRAPS SHALL BE CONSTRUCTED AROUND ALL INLET PITS,
- CONSISTING OF 300mm WIDE x 300mm DEEP TRENCH. 4. ALL SEDIMENT BASINS AND TRAPS SHALL BE CLEANED WHEN THE
- STRUCTURES ARE A MINIMUM OF 60% FULL OF SOIL MATERIALS, INCLUDING DURING THE MAINTENANCE PERIOD.
- 5. ALL DISTURBED AREAS SHALL BE REVEGETATED AS SOON AS THE
- RELEVANT WORKS ARE COMPLETED. SOIL AND STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES
- AND AREAS WHERE WATER MAY CONCENTRATE. FILTER SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC
- (PROPEX OR APPROVED EQUIVALENT BETWEEN POST AT 3.0M CENTERS. FABRIC SHALL BE BURIED 150 mm ALONG ITS LOWER EDGE.
- 8. CONTROL SURFACE WATER FLOW IN A MANNER THAT: A- DIVERTS RUN-OFF AROUND DISTURBED AREAS
- B- MINIMISES SLOPE AND FLOW DISTANCE WITHIN DISTURBED AREAS C- ENSURES SURFACE RUN-OFF OCCURS AT NON-ERODABLE VELOCITIES D- ENSURES DISTURBED AREAS ARE PROMPTLY REHABILITATED

| ISSUE FOR DA ONLY |            |              |  |  |  |
|-------------------|------------|--------------|--|--|--|
| Revision          |            |              |  |  |  |
| Rev               | Date       | Description  |  |  |  |
| Α                 | 05.12.2024 | ISSUE FOR DA |  |  |  |

B 02.05.2025 ISSUE FOR DA (SW REDESIGN)

PROJECT: PROPOSED NEW RESIDENCE 2 PRINCE EDWARD ROAD, SEAFORTH

COUNCIL: NORTHERN BEACHES

CLIENT: SOPHIA & STUART NAYLOR

**BUILDER**:

ARCHITECT: NEW PARADIGM DESIGN PTY LTD

DRAWING TITLE: SOIL & WATER MANAGEMENT PLAN



3/10 Childs Road, Chipping Norton, NSW 2170 e: info@neconsultants.com.au ABN:97 672 826 345

| ABN.97 072 020 345 |                                  |           |                  |  |  |  |  |  |  |
|--------------------|----------------------------------|-----------|------------------|--|--|--|--|--|--|
| ACN: 672 826 345   |                                  |           |                  |  |  |  |  |  |  |
| NORTH:             | DESIGNED:                        | DRAWN:    | CHECKED:         |  |  |  |  |  |  |
|                    | J.T.                             | V.S.      | J.T.             |  |  |  |  |  |  |
|                    | APPROVED: JOSEPH<br>BEng (Hons), | SIZE:     |                  |  |  |  |  |  |  |
|                    | JOB No: <b>24-1086</b>           | REVISION: | DRAWING No: SW06 |  |  |  |  |  |  |