

# WATER STREET, HORNSBY PROPOSED GROSS POLLUTANT TRAP

| DRAWING SCHEDULE |  |       |
|------------------|--|-------|
| SHEET No.        | TITLE  | ISSUE |
| 1                | DRAWING SCHEDULE, LOCALITY PLAN, LEGEND & GENERAL NOTES. | 1     |
| 2                | GENERAL WORKS & SERVICES PLAN & SECTION.                 | 1     |
| 3                | STORMWATER PIT No.1 DETAILS                              | 1     |
| 4                | STORMWATER PIT No. 9818 DETAILS                          | 1     |
| 5                | CATCHMENT PLAN & DRAINAGE CALCULATIONS.                  | 1     |
| 6                | EROSION & SEDIMENT CONTROL PLAN & DETAILS.               | 1     |

| SUPPLEMENTARY DRAWING SCHEDULE |  |            |
|--------------------------------|--|------------|
| SHEET No.                      | TITLE  | ISSUE      |
| 1                              | GPT- OCEANSAVE 2318 - PRODUCTION DRAWING (OCEAN PROTECT DRAWING 1)                           | A          |
| 2                              | PIT STRUCTURAL DETAILS (KNEEBONE & BERETTA DRAWING 93175-1)                                  | 30/03/2023 |
| 3                              | PIT STRUCTURAL DETAILS (KNEEBONE & BERETTA DRAWING 93175-2)                                  | 30/03/2023 |
| 4                              | WATERMAIN ADJUSTMENT (SYDNEY WATER APPROVED PLAN - CASE NO. 205465PW) (FOR INFORMATION ONLY) | D          |



**LOCALITY PLAN**  
NOT TO SCALE

**LEGEND**

- EXISTING KERB & GUTTER.
- EXISTING FENCE.
- EXISTING CONCRETE PATH EDGE.
- EXISTING STORMWATER PIPE.
- EXISTING POWER POLE.
- EXISTING TREE.
- EXISTING FIRE HYDRANT.
- EXISTING WATER STOP VALVE.
- EXISTING TELSTRA PIT.
- EXISTING U/G TELSTRA CABLES.
- EXISTING NBN CABLES.
- EXISTING UNKNOWN SERVICE.
- EXISTING OVERHEAD ELECTRICAL CABLES.
- EXISTING WATER MAIN.
- PROPOSED STORMWATER PIPE.
- PROPOSED GROSS POLLUTANT TRAP (GPT).

**GENERAL NOTES:**

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS & SPECIFICATIONS OF HORNSBY SHIRE COUNCIL.
2. LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCH MARKS & NOT FROM SURVEY PEGS.
3. PROVIDE TRAFFIC MANAGEMENT, LINE MARKING & SIGNAGE IN ACCORDANCE WITH THE TfNSW "TRAFFIC CONTROL AT WORK SITES" TECHNICAL MANUAL & AS1742.3 REQUIREMENTS.
4. SERVICES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM INFORMATION SUPPLIED FROM THE RELEVANT AUTHORITIES VIA A "DIAL BEFORE YOU DIG" ENQUIRY & UNDERGROUND UTILITY LOCATING (ELECTRONIC & POTHOLING). THE LOCATION OF SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES & UNDERGROUND UTILITY LOCATOR & FIELD INVESTIGATIONS & ARE TO BE VERIFIED PRIOR TO CONSTRUCTION.
5. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE LANDCOM PUBLICATION- "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION" Vol. 1, 4th EDITION.
6. ALL DISTURBED AREAS OF THE SITE ARE TO BE REINSTATED WITH EXISTING OR MATCHING MATERIALS UNLESS NOTED OTHERWISE AT THE COMPLETION OF THE WORKS.
7. COUNCIL'S TREE MANAGEMENT OFFICER CONTACT DETAILS: NAME: Scott Hannell PH: 9847 6993

**ACCESS & SAFETY NOTES:**

1. THE CONSTRUCTOR SHALL COMPLY WITH ALL STATUTORY & INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
2. THE CONSTRUCTOR SHALL PROVIDE TRAFFIC MANAGEMENT PLANS FOR THE PROPOSED WORKS COMPLETED BY A SUITABLY QUALIFIED PERSON & WITNESSED BY COUNCIL/REGULATORY AUTHORITY. WORK IS NOT TO COMMENCE ON SITE PRIOR TO PREPARATION OF TRAFFIC MANAGEMENT SCHEME.
3. THE CONSTRUCTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO BUILDINGS/RESIDENCES ADJACENT TO THE WORKS IS NOT DISRUPTED.
4. WHERE NECESSARY THE CONSTRUCTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
5. THE CONSTRUCTOR SHALL ENSURE PUBLIC ACCESS EXTERNAL TO THE SITE IS IN ACCORDANCE WITH COUNCIL REQUIREMENTS.

**GEO-TECHNICAL NOTES:**

1. A GEO-TECHNICAL INVESTIGATION HAS BEEN UNDERTAKEN AT THIS PROJECT SITE BY STS GEOTECHNICS PTY LTD (REPORT No:22/3468) TO ASCERTAIN THE EXISTING EARTH MATERIAL IN THE LOCATION OF THE PROPOSED GROSS POLLUTANT TRAP. THE REPORT CAN BE FOUND IN COUNCIL'S DOCUMENT MANAGEMENT SYSTEM AS DOCUMENT# D08512660.
2. CARE REQUIRED TO ENSURE THAT NEARBY STRUCTURES & INFRASTRUCTURE ARE NOT DAMAGED WHEN EXCAVATING THE ROCK. EXCAVATION METHODS SHOULD BE ADOPTED WHICH LIMIT GROUND VIBRATIONS AT THE ADJOINING STRUCTURES TO NOT MORE THAN 5mm/SEC.
3. UNDERTAKE DILAPIDATION SURVEY OF ANY STRUCTURES THAT MAY POTENTIALLY BE DAMAGED BEFORE COMMENCING EXCAVATION. THIS WILL PROVIDE REASONABLE BASIS FOR ASSESSING ANY FUTURE CLAIMS OF DAMAGE.
4. EXCAVATIONS ARE NOT EXPECTED TO ENCOUNTER GROUNDWATER TABLE, HOWEVER SHOULD ANY SIGNIFICANT GROUNDWATER FLOWS BE ENCOUNTERED DURING EXCAVATION, STS MUST BE CONTACTED IMMEDIATELY TO PROVIDE FURTHER ADVICE & RECOMMENDATIONS.
5. STS GEOTECHNICS CONTACT DETAILS: NAME: Laurie Ilnativ PH: 02 9756 2166

| NATURAL RESOURCES BRANCH  |   |
|---|---|
| Asset Custodian Officer   | Name: N. KERAUNOS Telephone: 9847 6752  |
| Accepted as complying with the general intent of the design brief | Signed: <i>[Signature]</i> Date: 6/6/23 |
| Project Number  | 100949                                  |
| Sheet of  | 1 6                                     |
| Issue   | 1                                       |
| HSC Drawing Number  | 569.7                                   |

**Hornsby Shire Council  
Design & Construction  
Branch**

TELEPHONE: 1021 9847 6666  
EMAIL: [haz@hornsby.nsw.gov.au](mailto:haz@hornsby.nsw.gov.au)  
Name: R. RAJCA Signed: *[Signature]* Date: 8/6/23

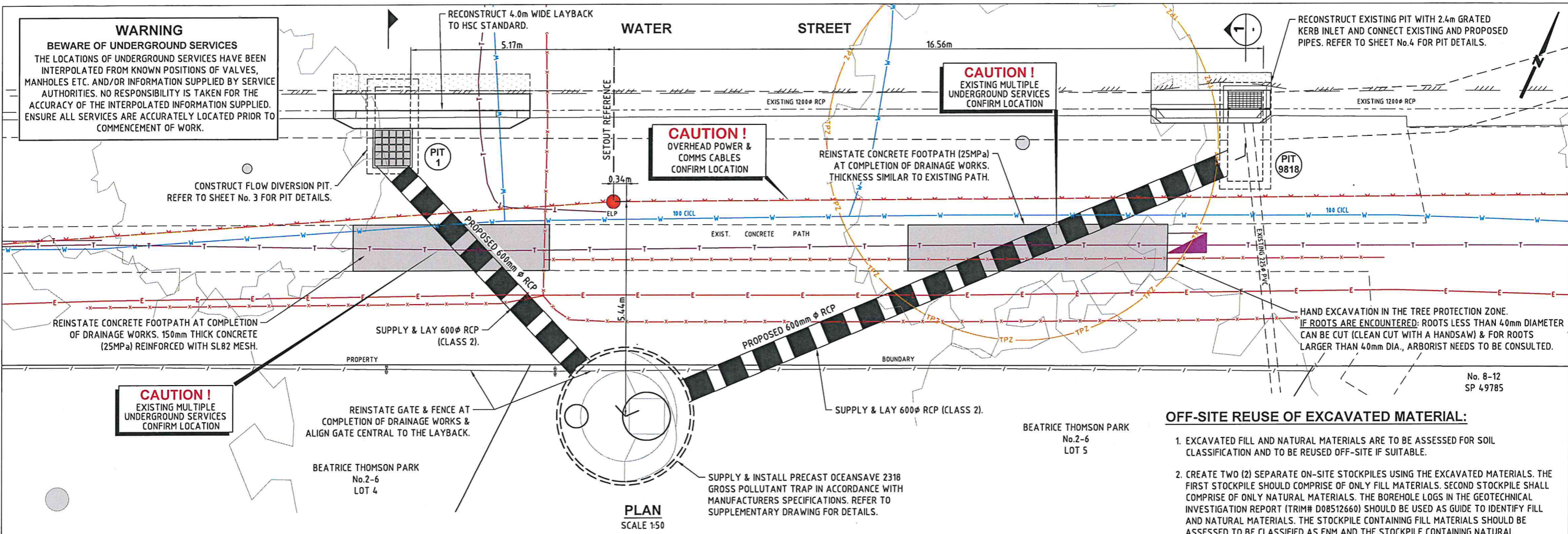
|   |                                      |  |             |         |              |
|---|--------------------------------------|--|-------------|---------|--------------|
| Designer<br>D. TAMANG   | Design Checked<br><i>[Signature]</i> | Design Team Leader<br>Signed: <i>[Signature]</i> |             |         |              |
| Drawn<br>D. TAMANG  | Drawing Checked                      |  |             |         |              |
| Surveyor<br>J. HART   | Field Book                           | Level Book                                       | GDA94 Datum |         |              |
| Project Identifier \ CAD File Name<br>H:\Projects\Water St_WC_100949\Design\ACAD\Water Street GPT.dwg |                                      |  |             |         |              |
| Issue   | 1                                    | ISSUED FOR CONSTRUCTION                          | M. DRAKE    | Initial | Date: 7/6/23 |
| Design not to be amended without authorisation by Manager Design & Construction                       |                                      |  |             |         |              |

Bar Scales  
  
NOT TO SCALE  
  
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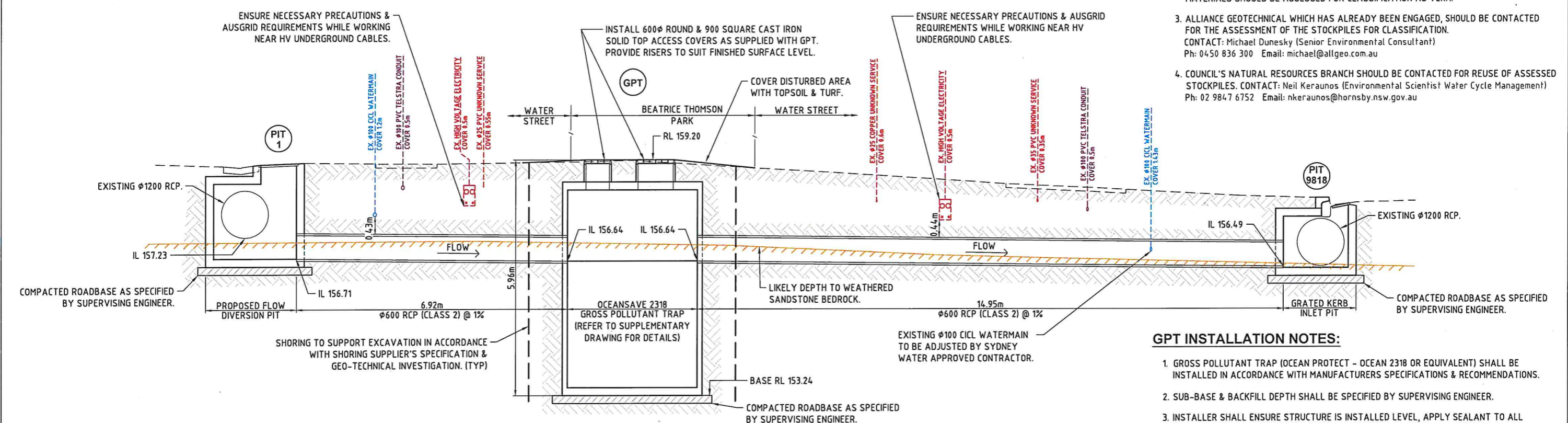


**WATER STREET, HORNSBY  
PROPOSED GROSS POLLUTANT TRAP**

DRAWING SCHEDULE, LOCALITY PLAN, LEGEND  
& GENERAL NOTES



**PLAN**  
SCALE 1:50



**SECTION 1**  
SCALE 1:50

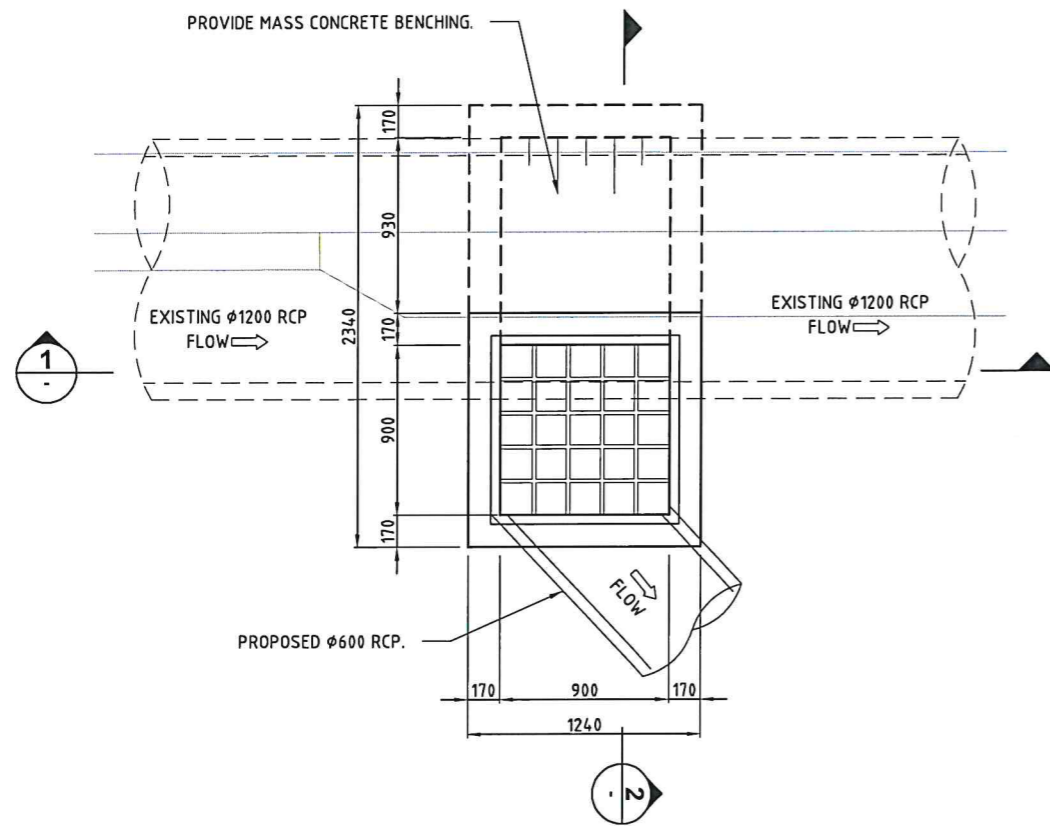
**OFF-SITE REUSE OF EXCAVATED MATERIAL:**

- EXCAVATED FILL AND NATURAL MATERIALS ARE TO BE ASSESSED FOR SOIL CLASSIFICATION AND TO BE REUSED OFF-SITE IF SUITABLE.
- CREATE TWO (2) SEPARATE ON-SITE STOCKPILES USING THE EXCAVATED MATERIALS. THE FIRST STOCKPILE SHOULD COMPRISE OF ONLY FILL MATERIALS. SECOND STOCKPILE SHALL COMPRISE OF ONLY NATURAL MATERIALS. THE BOREHOLE LOGS IN THE GEOTECHNICAL INVESTIGATION REPORT (TRIM# D08512660) SHOULD BE USED AS GUIDE TO IDENTIFY FILL AND NATURAL MATERIALS. THE STOCKPILE CONTAINING FILL MATERIALS SHOULD BE ASSESSED TO BE CLASSIFIED AS ENM AND THE STOCKPILE CONTAINING NATURAL MATERIALS SHOULD BE ASSESSED FOR CLASSIFICATION AS VENM.
- ALLIANCE GEOTECHNICAL WHICH HAS ALREADY BEEN ENGAGED, SHOULD BE CONTACTED FOR THE ASSESSMENT OF THE STOCKPILES FOR CLASSIFICATION. CONTACT: Michael Dunesky (Senior Environmental Consultant) Ph: 0450 836 300 Email: michael@allgeo.com.au
- COUNCIL'S NATURAL RESOURCES BRANCH SHOULD BE CONTACTED FOR REUSE OF ASSESSED STOCKPILES. CONTACT: Neil Keraunos (Environmental Scientist Water Cycle Management) Ph: 02 9847 6752 Email: nkeranos@hornsby.nsw.gov.au

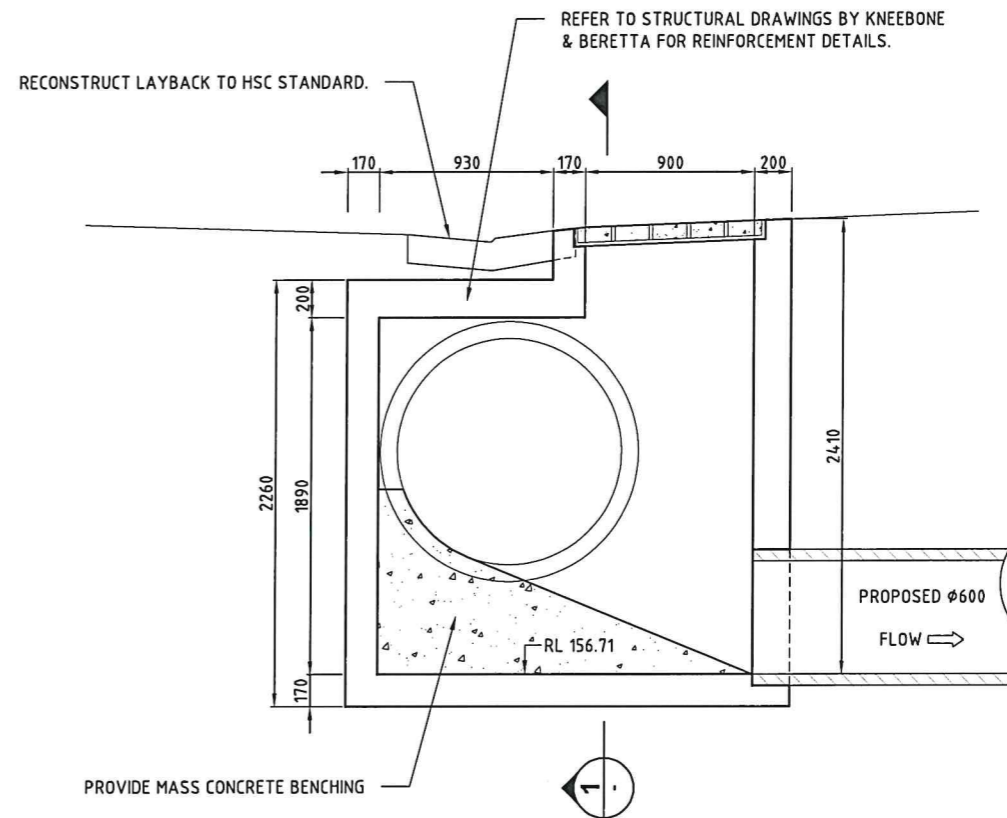
**GPT INSTALLATION NOTES:**

- GROSS POLLUTANT TRAP (OCEAN PROTECT - OCEAN 2318 OR EQUIVALENT) SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS & RECOMMENDATIONS.
- SUB-BASE & BACKFILL DEPTH SHALL BE SPECIFIED BY SUPERVISING ENGINEER.
- INSTALLER SHALL ENSURE STRUCTURE IS INSTALLED LEVEL, APPLY SEALANT TO ALL JOINTS & INSTALL & GROUT INLET & OUTLET PIPES.
- FOR MORE INFORMATION ON OCEAN PROTECT VISIT <https://oceanprotect.com.au/> CONTACT: Daniel Page (OceanProtect-Specification Engineer) Ph: 0477 77 1007

|   |   |                                      |  |                                      |  |   |  |  |   |                                     |   |   |                                 |                                  |                   |                                    |
|---|---|--------------------------------------|--|--------------------------------------|--|---|--|--|---|-------------------------------------|---|---|---------------------------------|----------------------------------|-------------------|------------------------------------|
| <b>Hornsby Shire Council</b><br><b>Design &amp; Construction</b><br><b>Branch</b><br>TELEPHONE: (02) 9847 8666<br>EMAIL: hsc@hornsby.nsw.gov.au<br>Authorised for release - Manager Design & Construction<br>Name: R. RAJCA | Designer<br><b>D. TAMANG</b><br>Signed: <i>[Signature]</i>                      | Design Checked<br><i>[Signature]</i> | Design Team Leader<br>Signed: <i>[Signature]</i> | Drawn<br><b>D. TAMANG</b><br>Signed: | Surveyor<br><b>J. HART</b>                 | Field Book<br>Level Book<br><b>GDA94</b><br>Datum | Project Identifier \ CAD File Name<br>H:\Projects\Water St_WC_108949\Design\CAD\Water Street GPT.dwg | TRIM Document Number<br><b>D08592821</b> | Design not to be amended without authorisation by Manager Design & Construction | Bar Scale<br><br>SCALE 1:50<br>@ A1 | <br><b>HORNSBY</b><br><b>SHIRE COUNCIL</b><br>PO BOX 37, HORNSBY NSW 1630 | <b>WATER STREET, HORNSBY</b><br><b>PROPOSED GROSS POLLUTANT TRAP</b><br>GENERAL WORKS & SERVICES PLAN & SECTION | Project Number<br><b>100949</b> | Sheet of<br><b>2</b> of <b>6</b> | Issue<br><b>1</b> | HSC Drawing Number<br><b>569.7</b> |
|   | Issued For Construction<br>Description<br><b>ISSUED FOR CONSTRUCTION</b>        | Name<br><b>M. DRAKE</b>              | Initial<br><b>MD</b>                             | Date<br><b>7/16/23</b>               | DO NOT SCALE. USE FIGURED DIMENSIONS ONLY. |   |  |  |   |                                     |   |   |                                 |                                  |                   |                                    |
|   | Design not to be amended without authorisation by Manager Design & Construction |                                      |  |                                      |  |   |  |  |   |                                     |   |   |                                 |                                  |                   |                                    |
|   | Name: R. RAJCA<br>Signed: <i>[Signature]</i><br>Date: <b>2/16/23</b>            |                                      |  |                                      |  |   |  |  |   |                                     |   |   |                                 |                                  |                   |                                    |

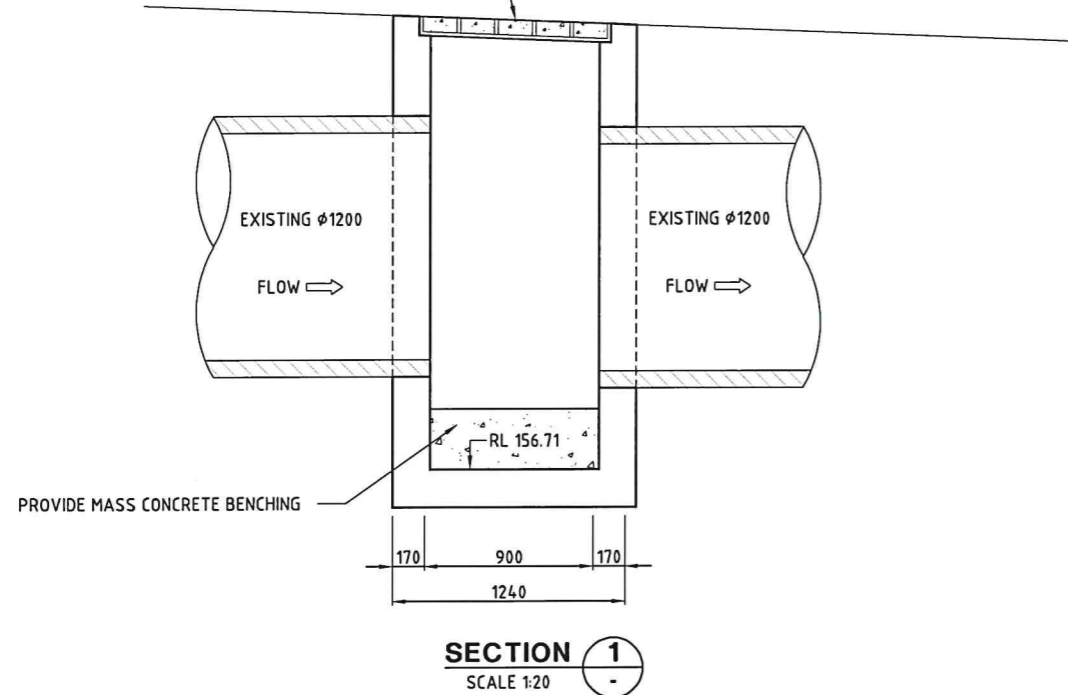


**PLAN - PIT No. 1**  
SCALE 1:20



**SECTION 2**  
SCALE 1:20

CAST IRON FRAME & BOLT-DOWN COVER WITH CONCRETE INFILL (LOAD CLASS D) TO FINISHED SURFACE LEVEL & SLOPE INSTALLED AS PER MANUFACTURER'S SPECIFICATION.



**SECTION 1**  
SCALE 1:20

**NOTES:**

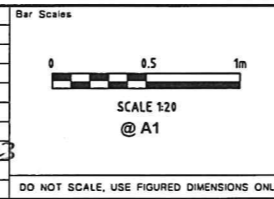
1. REFER TO ATTACHED SUPPLEMENTARY STRUCTURAL DRAWINGS BY KNEEBONE & BERETTA FOR REINFORCEMENT DETAILS & CONCRETE NOTES.
2. DIMENSION OF THE PITS TO BE DETERMINED ON SITE TO SUIT EXISTING & PROPOSED PIPES.
3. PROVIDE KERB TRANSITION ON BOTH SIDES OF THE PIT TO HSC STANDARD DRAWING No.13.
4. PROVIDE BENCHING TO HSC STANDARD DRAWING No.13.
5. PROVIDE STEP IRONS TO HSC STANDARD DRAWING No. 8.
6. PROVIDE SUBSOIL TO EITHER SIDE OF PIT TO HSC STANDARD DRAWING No.13.

**Hornsby Shire Council**  
Design & Construction  
Branch

Designer: D. TAMANG  
Drawn: D. TAMANG  
Surveyor: J. HART  
Project Identifier: \\CAD File Name  
H:\Projects\Water St\_WC\_100949\Design\ACAD\Water Street GPT.dwg  
TRM Document Number: D08592821

Design Checked/Design Team Leader: M. Drake  
Signed: M. Drake  
Drawing Checked: M. Drake  
Signed: M. Drake  
Field Book: GDA94  
Level Book: Datum

| Issue | Description             | Name     | Initial | Date   |
|-------|-------------------------|----------|---------|--------|
| 1     | ISSUED FOR CONSTRUCTION | M. DRAKE | MD      | 7/6/23 |



**WATER STREET, HORNSBY**  
**PROPOSED GROSS POLLUTANT TRAP**

STORMWATER PIT No.1 DETAILS

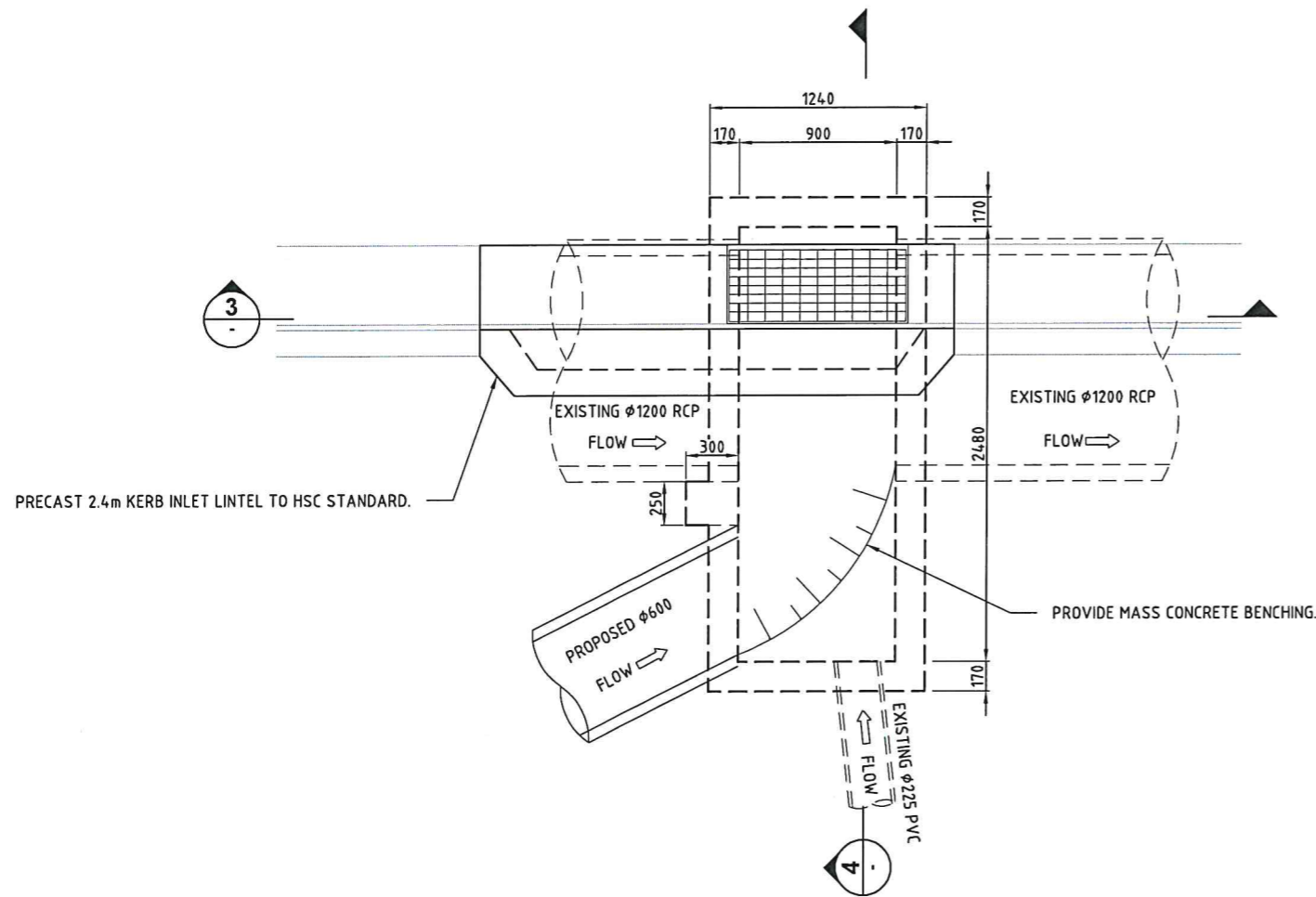
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| Project Number<br><b>100949</b>    |                |                   |
| Sheet<br><b>3</b>                  | of<br><b>6</b> | Issue<br><b>1</b> |
| HSC Drawing Number<br><b>569.7</b> |                |                   |

Authorised for release - Manager Design & Construction  
Name: R. RAJCA  
Signed: R. Rajca  
Date: 8/6/23

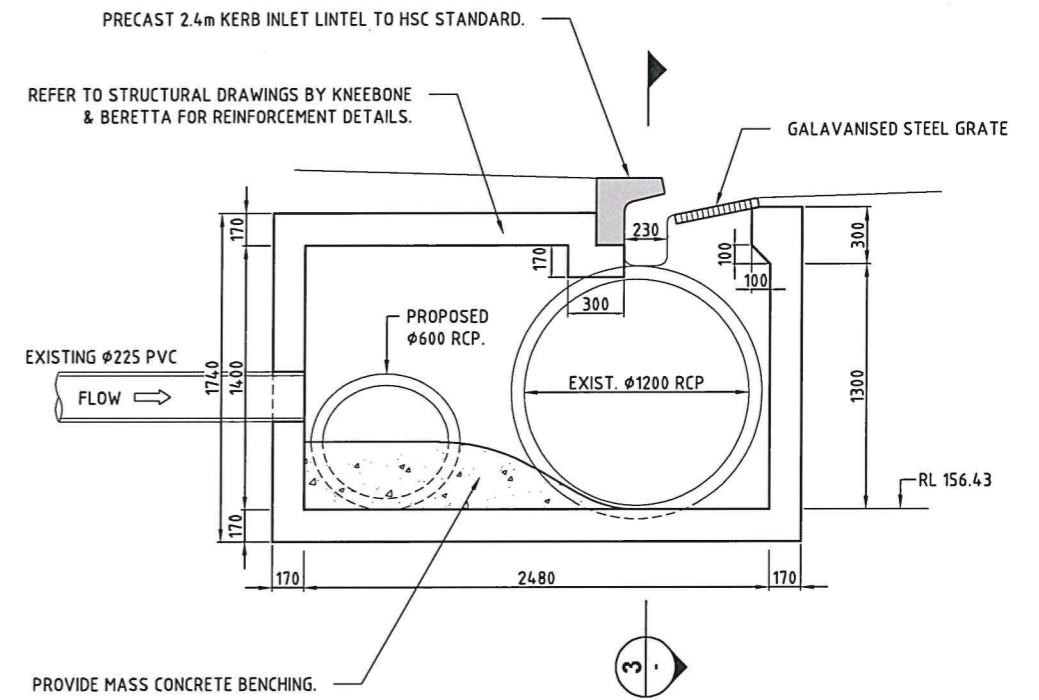
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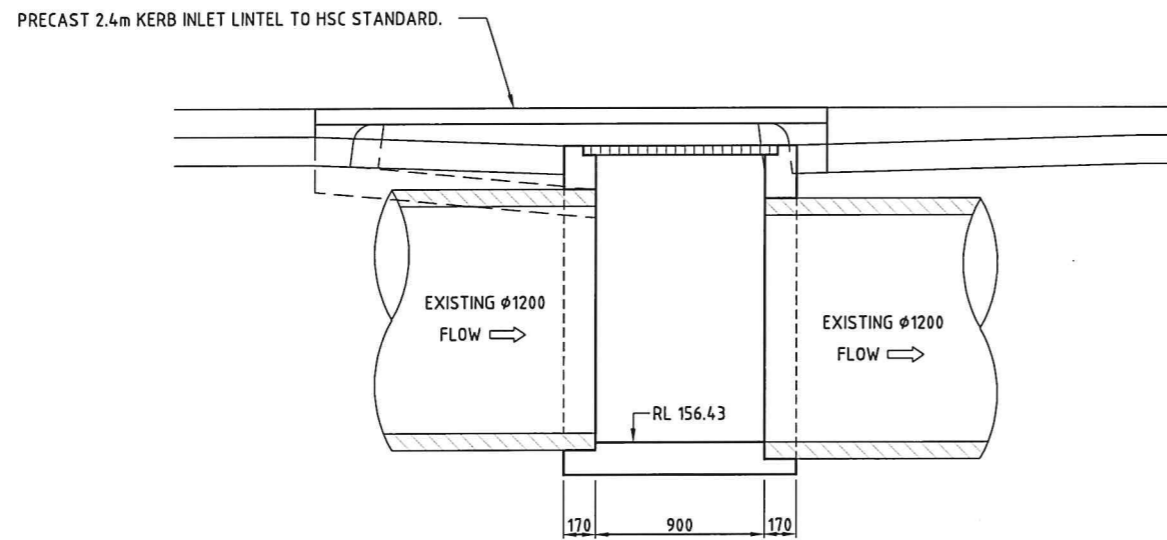
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**PLAN - PIT No. 9818**  
SCALE 1:20



**SECTION 4**  
SCALE 1:20



**SECTION 3**  
SCALE 1:20

**NOTES:**

1. REFER TO ATTACHED SUPPLEMENTARY STRUCTURAL DRAWINGS BY KNEEBONE & BERETTA FOR REINFORCEMENT DETAILS & CONCRETE NOTES.
2. DIMENSION OF THE PITS TO BE DETERMINED ON SITE TO SUIT EXISTING & PROPOSED PIPES.
3. PROVIDE KERB TRANSITION ON BOTH SIDES OF THE PIT TO HSC STANDARD DRAWING No.13.
4. PROVIDE BENCHING TO HSC STANDARD DRAWING No.13.
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6. PROVIDE SUBSOIL TO EITHER SIDE OF PIT TO HSC STANDARD DRAWING No.13.

**Hornsby Shire Council**  
Design & Construction  
Branch

Designer  
D. TAMANG

Design Checked/Design Team Leader  
Signed: *M. Drake*

Drawn  
D. TAMANG

Drawing Checked  
Signed:

Surveyor  
J. HART

Field Book Level Book Datum  
GDA94

Project Identifier/VCAD File Name

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TRM Document Number

D08592821

1

Issue

ISSUED FOR CONSTRUCTION

Description

M. DRAKE

Name

*MD*

Initial

7/1/23

Date

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Bar Scales



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**WATER STREET, HORNSBY**  
**PROPOSED GROSS POLLUTANT TRAP**

STORMWATER PIT No.9818 DETAIL

Project Number  
**100949**

Sheet of Issue  
**4 6 1**

HSC Drawing Number  
**569.7**

Authorised for release - Manager Design & Construction  
Name: R. RAJCA Signed: *R. Rajca* Date: *13/6/23*



**LEGEND**

- - - - - EXISTING CONTOUR (2m INTERVAL).
- - - - - EXISTING STORMWATER PIPE.
- - - - - CATCHMENT BOUNDARY.

| Catchment            |          |
|----------------------|----------|
| Total Catchment Area | 37.94 ha |
| Impervious Area      | 90%      |
| Pervious Area        | 10%      |

| Flow into GPT |         |
|---------------|---------|
| 4EY           | 580 l/s |
| 5% AEP        | 820 l/s |
| 1% AEP        | 870 l/s |

| Overland Flow in Water Street adjacent to Beatrice Thomson Park |                        |                              |
|---|------------------------|------------------------------|
|   | Existing Flows         | Flows After GPT Installation |
| 5% AEP  | 7.7 m <sup>3</sup> /s  | 8.2 m <sup>3</sup> /s        |
| 1% AEP  | 12.2 m <sup>3</sup> /s | 12.8 m <sup>3</sup> /s       |

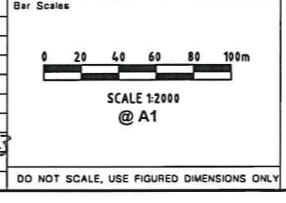
Reference drains model H:\Water St\_WC\_100949\Drainage\Drains

| Gross Pollutant Trap   |                   |
|--|-------------------|
| Device   | Oceansave OS-2318 |
| Treatable Flow Rate  | 580 l/s           |
| Pollutant Removal Efficiency as claimed by the manufacturer. |                   |
| GP   | 95%               |
| TSS  | 70%               |
| TP   | 30%               |
| TN   | nil               |

**Hornsby Shire Council**  
**Design & Construction**  
**Branch**  
 TELEPHONE: (02) 9847 5586  
 EMAIL: nac@hornsby.nsw.gov.au

Designer: **D. TAMANG**  
 Drawn: **D. TAMANG**  
 Surveyor: **J. HART**  
 Project Identifier: \\\CAD File Name  
 H:\Projects\Water St\_WC\_100949\Design\CAD\Water Street GPT.dwg  
 TRM Document Number: **D08592821**

| Issue | Description             | Name     | Initial | Date    |
|-------|-------------------------|----------|---------|---------|
| 1     | ISSUED FOR CONSTRUCTION | M. DRAKE | MD      | 7/10/23 |

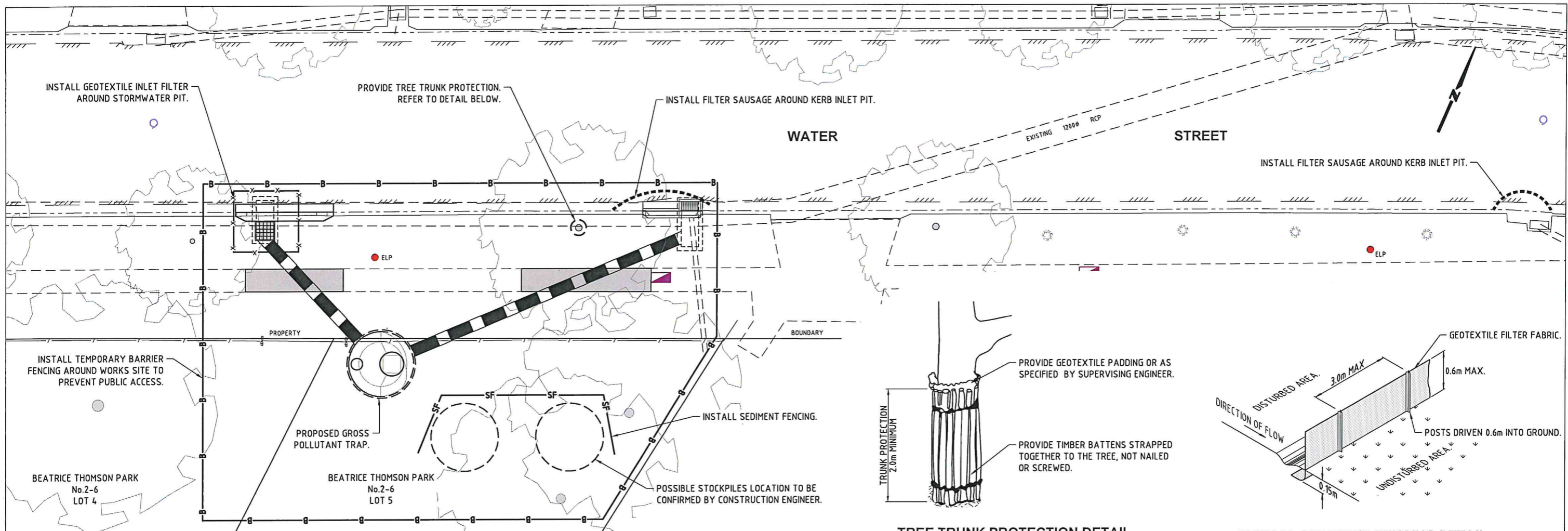


**WATER STREET, HORNSBY**  
**PROPOSED GROSS POLLUTANT TRAP**  
 CATCHMENT PLAN & DRAINAGE CALCULATIONS

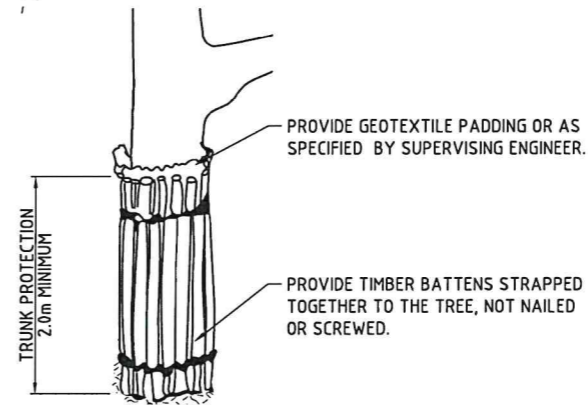
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| Project Number     | <b>100949</b> |          |
| Sheet of           | <b>5</b>      | <b>6</b> |
| Issue              | <b>1</b>      |          |
| HSC Drawing Number | <b>569.7</b>  |          |

Authorised for release - Manager Design & Construction  
 Name: **R. RAJCA** Signed: [Signature] Date: **8/6/23**

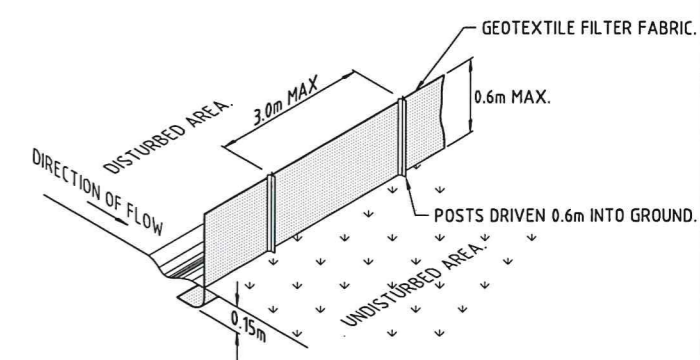
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**PLAN**  
SCALE 1:100



**TREE TRUNK PROTECTION DETAIL**  
NOT TO SCALE



**TYPICAL SEDIMENT FENCING DETAIL**  
NOT TO SCALE

**SEDIMENT & EROSION CONTROL NOTES:**

- NO WORK SHALL BE UNDERTAKEN UNTIL ALL SEDIMENT & EROSION CONTROL MEASURES ARE IN PLACE & HAVE BEEN APPROVED BY THE CONSTRUCTION ENGINEER.
- ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED BY THE SITE SUPERVISOR ON A DAILY BASIS & SIGNED OFF ON THE BACK OF THE DAY SHEET. A CHECKLIST SHALL BE HANDED OVER TO THE PROJECT MANAGER AT THE END OF EACH DAY. STRUCTURES WILL ALSO BE INSPECTED AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE & ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SOIL STOCKPILE SITE. THE PROJECT MANAGER MUST INFORM ALL CONTRACTORS & SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION CONTROL PLAN.
- SELECTIVE CLEARING OF VEGETATION TO BE RESTRICTED TO NOMINATED AREAS WITH CLEARED VEGETATION WINDROWED ON THE CONTOUR.
- TREES NEAR THE CONSTRUCTION ZONE NOT OTHERWISE PROTECTED BY FENCING SHOULD BE ARMoured 2.0m CLEAR OF TRUNK WITH STAR PICKETS SPACED AT 1.0m CENTRES & BOUND BY BARRIER MESH (REFER TO DETAIL 'A' ON SHEET No.X). ALTERNATIVE PROTECTION SATISFYING THE PROJECT MANAGER'S REQUIREMENTS IS ACCEPTABLE. TRUNK PROTECTION SHOULD BE MAINTAINED INTACT UNTIL THE COMPLETION OF ALL WORK ON THE SITE. ALL TREES REQUIRING REMOVAL ARE SHOWN ON THIS PLAN & SHALL BE MARKED ACCORDINGLY PRIOR TO REMOVAL.
- TOPSOIL FROM AREAS THAT WILL BE DISTURBED TO BE STRIPPED & STOCKPILED AT THE NOMINATED SITE.
- A MINIMUM STOCK OF THE FOLLOWING SHALL BE KEPT ON SITE AT ALL TIMES:  
(A) 50m ROLL OF SEDIMENT FENCE & PEGS.  
(B) 50m ROLL OF BIDIM GEOTEXTILE.
- ANY DISTURBED AREA OF LAND SHALL BE COMPACTED AT THE END OF EACH WORKING DAY & BEFORE ANY STORM EVENT.
- CONSTRUCTION AREA IS TO BE LIMITED AS SHOWN TO MINIMISE DISTURBANCE.
- SEDIMENT FENCING SHALL BE PLACED AROUND THE STOCKPILE AREA.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE NSW DEPT OF HOUSING PUBLICATION:- "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION" VOL.1, 4th EDITION.
- ALL DISTURBED AREAS SHALL BE TURFED OR COVERED IN MULCH WITHIN 14 DAYS OF FINAL TRIMMING.

**SEDIMENT & EROSION CONTROL DEVICES:**

- SEDIMENT FENCE**
  - CONSTRUCT SEDIMENT FENCES AS PARRALLEL AS POSSIBLE TO THE CONTOURS ON THE SITE. PROVIDE SMALL RETURNS, TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION.
  - CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
  - DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX) AT DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
  - FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
  - JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
  - BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.
- FILTER SAUSAGE**
  - FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT & FILL WITH 25mm TO 50mm GRAVEL.
  - FORM AN ELLIPTICAL CROSS-SECTION APPROXIMATELY 150mm HIGH & 400mm WIDE.
  - FORM A SEAL WITH THE CHANNEL FLOOR TO PREVENT SEDIMENT BYPASSING THE FILTER.
  - SANDBAGS FILLED WITH GAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER & SEDIMENT LADEN WATERS CANNOT PASS BETWEEN.

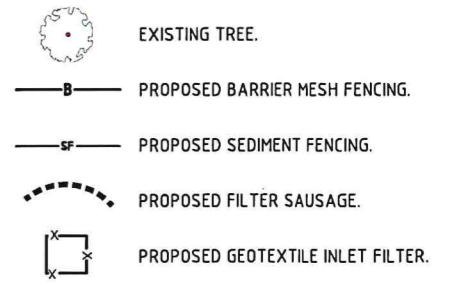
**3. GEOTEXTILE INLET FILTER**

- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE.
  - CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
  - DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 1m INTERVALS (MAX) AT DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
  - FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
  - JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
  - BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.
  - DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATER TO BYPASS IT.
- STOCKPILES**
    - PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROAD & HAZARD AREAS.
    - CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
    - WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
    - WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE AS APPROVED BY THE CONSTRUCTION ENGINEER.
    - CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES & SEDIMENT FENCE 1 TO 2m DOWNSLOPE.

**TREE PROTECTION NOTES:**

- BARRIER FENCING SHOULD BE PROVIDED AROUND TREES FOR PROTECTION.
- EXCAVATION NEAR THE TREES SHOULD BE DONE MANUALLY.
- IF TREE ROOTS ARE ENCOUNTERED DURING EXCAVATION, COUNCIL'S TREE MANGEMENT OFFICER SHOULD BE CONTACTED. REFER TO SHEET No.1 FOR CONTACT DETAILS.

**LEGEND**

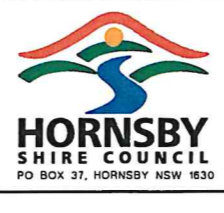
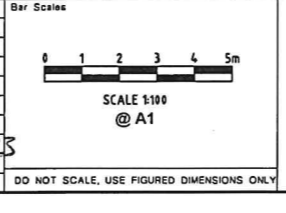


**Hornsby Shire Council**  
Design & Construction  
Branch

TELEPHONE: (02) 9847 6566  
EMAIL: hsc@hornsby.nsw.gov.au

|   |   |                    |
|---|---|--------------------|
| Designer<br>D. TAMANG   | Design Checked<br>Signed: <i>M. Drake</i> | Design Team Leader |
| Drawn<br>D. TAMANG  | Drawing Checked                           |                    |
| Surveyor<br>J. HART   | Field Book                                | Level Book         |
| Project Identifier\CAD File Name<br>H:\Projects\Water S1 WC_100949\Design\ACAD\Water Street GPT.dwg | GDA94                                     | Datum              |
| TRM Document Number<br>D08592821  |   |                    |

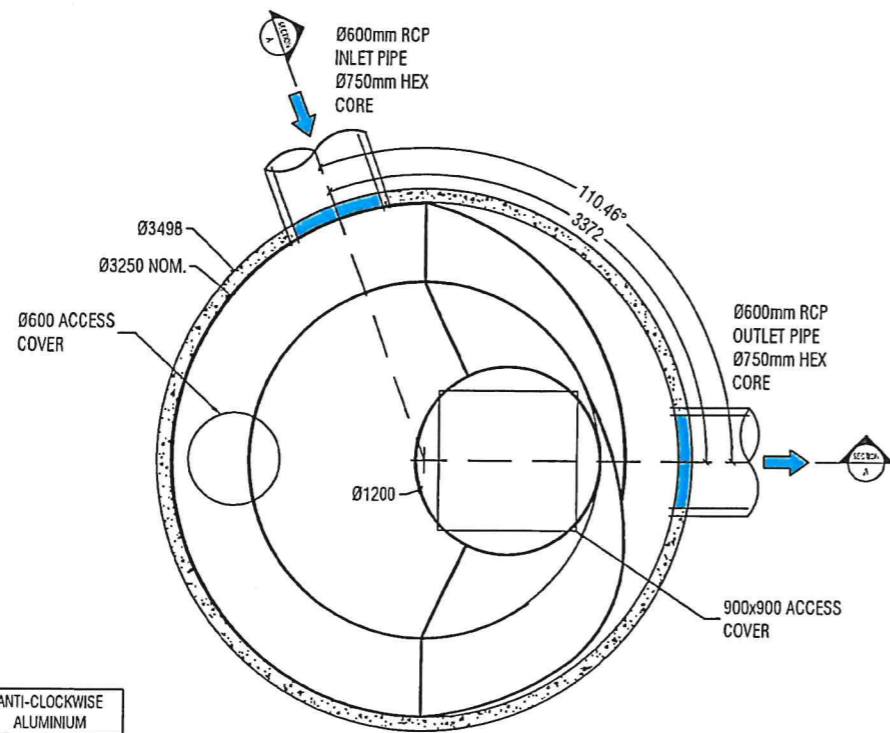
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|---|-------------------------|----------|-----------|--------------|
| 1   | ISSUED FOR CONSTRUCTION | M. DRAKE | <i>MD</i> | <i>16/23</i> |
| Issue   | Description             | Name     | Initial   | Date         |
| Design not to be amended without authorisation by Manager Design & Construction |                         |          |           |              |



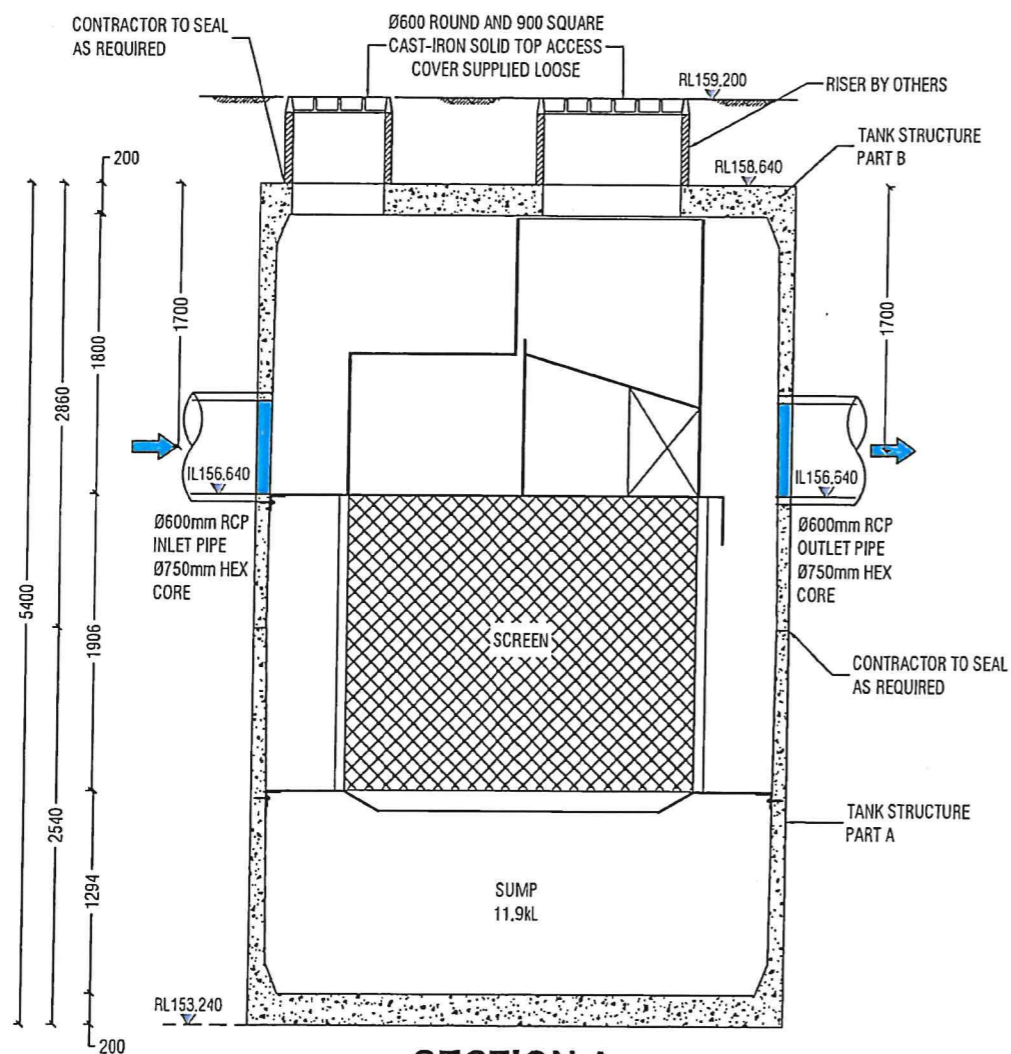
**WATER STREET, HORNSBY**  
**PROPOSED GROSS POLLUTANT TRAP**

EROSION & SEDIMENT CONTROL PLAN & DETAILS.

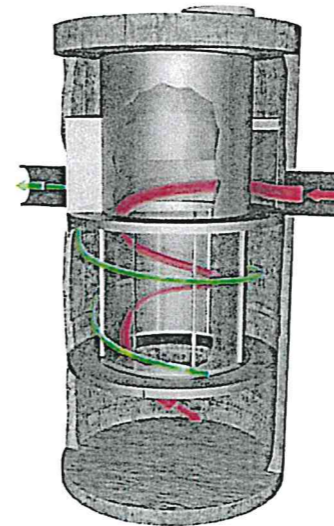
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|-----------------------------|------------|---------|------------|
| Project Number<br>100949    | Sheet<br>6 | of<br>6 | Issue<br>1 |
| HSC Drawing Number<br>569.7 |            |         |            |



**PLAN LAYOUT**



**SECTION A**



**SITE SPECIFIC DATA REQUIREMENTS**

| PIPE DATA:        | I.L.     | MATERIAL | DIAMETER |
|-------------------|----------|----------|----------|
| INLET PIPE        | AS SHOWN | AS SHOWN | AS SHOWN |
| OUTLET PIPE       | AS SHOWN | AS SHOWN | AS SHOWN |
| UPPER TANK WEIGHT |          | TBC      |          |
| LOWER TANK WEIGHT |          | TBC      |          |

GPT PIT(1)-PIT(9818)

NOTE: TANK SUPPLIED IN TWO PARTS; PARTS A & B TO BE JOINED ON SITE

**GENERAL NOTES**

- OCEANSAVE WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF THE PROJECT.
- INLET AND OUTLET PIPING SHALL BE SPECIFIED BY CERTIFYING ENGINEER. PRECAST STRUCTURE SUPPLIED WITH CORE HOLES TO SUIT OUTER DIAMETER OF NOMINATED PIPE SIZE / MATERIAL.
- PRECAST STRUCTURE SHALL MEET W80 WHEEL LOAD RATING ASSUMING A MAXIMUM EARTH COVER OF 2.0m AND A GROUND WATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER TO CONFIRM ACTUAL GROUNDWATER ELEVATION. PRECAST STRUCTURE SHALL BE IN ACCORDANCE WITH AS3600.
- ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR GUIDELINES AND ACCESS REQUIREMENTS.
- DRAWING NOT TO SCALE.

**INSTALLATION NOTES**

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE SPECIFIC DESIGN CONSIDERATION AND SHALL BE SPECIFIED BY THE SITE CIVIL ENGINEER.
- CONTRACTOR TO PROVIDE ALL EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING DETAIL PROVIDED SEPARATELY).
- CONTRACTOR TO INSTALL AND LEVEL THE STRUCTURE, APPLY SEALANT TO ALL JOINTS AND TO PROVIDE, INSTALL AND GROUT INLET AND OUTLET PIPES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT SCREEN & SEPARATION CYLINDER COMPONENTS DURING INSTALLATION

**PRODUCTION DRAWING SIGN OFF**

ALL DETAILS ON THIS PRODUCTION DRAWING HAVE BEEN REVIEWED AND MEET SITE SPECIFIC REQUIREMENTS. UPON RECEIPT OF SIGN-OFF, PRODUCTION WILL COMMENCE IN ACCORDANCE WITH THIS SITE SPECIFIC DRAWING. ALTERATIONS TO THE UNITS DESIGN AFTER RECEIPT OF SIGNED SITE SPECIFIC PRODUCTION DRAWING MAY INCUR ADDITIONAL CHARGES.

|             |                                   |
|-------------|-----------------------------------|
| APPROVED BY | Dinesh Tamang (Drainage Engineer) |
| SIGNATURE   | <i>[Signature]</i>                |
| DATE        | 6/3/2023                          |



PHONE: 1300 354 722 www.oceanprotect.com.au

19269 - GPT - Water Street, HORNSBY

OCEANSAVE-2318 [TX]

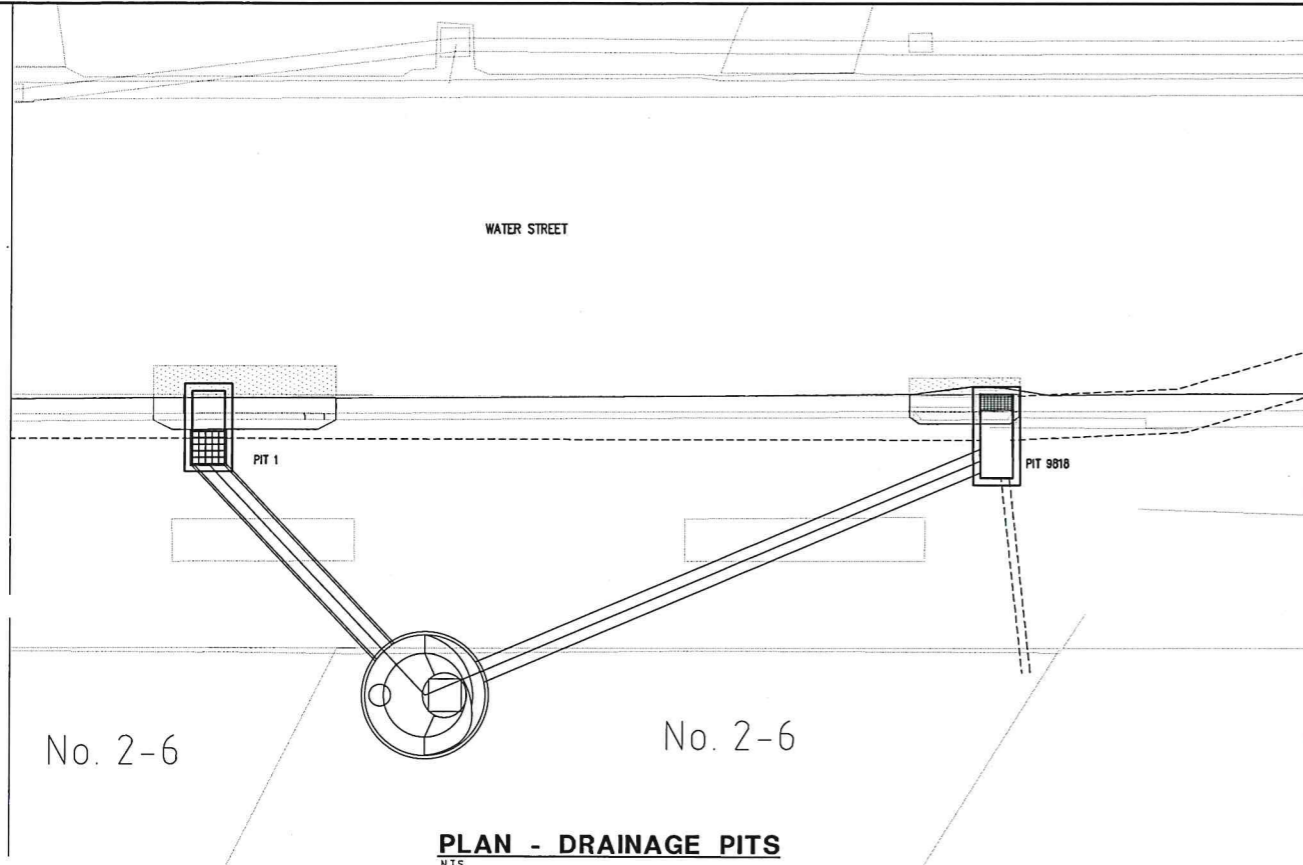
SITE SPECIFIC PRODUCTION DRAWING

|         |   |
|---------|---|
| DRAWING | 1 |
|         | A |

DATE: 16-02-2023

DRAWN: A.H.

CHECKED: J.G.



**PLAN - DRAINAGE PITS**

N.T.S.

PIT DIMENSIONS AS PER COUNCIL DOCUMENTS  
100949-569.7 PAGES 1 TO 6

**DESIGN LOADING ASSUMPTIONS**

**DURING CONSTRUCTION:**

- CONSTRUCTION LIVE LOAD ONTO SLAB/FOOTING = 14T EXCAVATOR  
100KN MAX. POINT LOAD - WORKING

**POST CONSTRUCTION LOADS:**

- 0.6m MAX. SOIL HEIGHT OVER PIT
- 5.0KPA (500 Kg/m<sup>2</sup>) MAX. LIVE LOAD

GEOTECHNICAL ENGINEER TO CONFIRM MINIMUM BEARING CAPACITY OF 300 KPa.

ALL EXCAVATION, SHORING AND BENCHING TO BE DONE IN ACCORDANCE WITH EXCAVATION CODE OF PRACTICE.

ADEQUACY OF PIPE INFRASTRUCTURE TO BE BY OTHERS

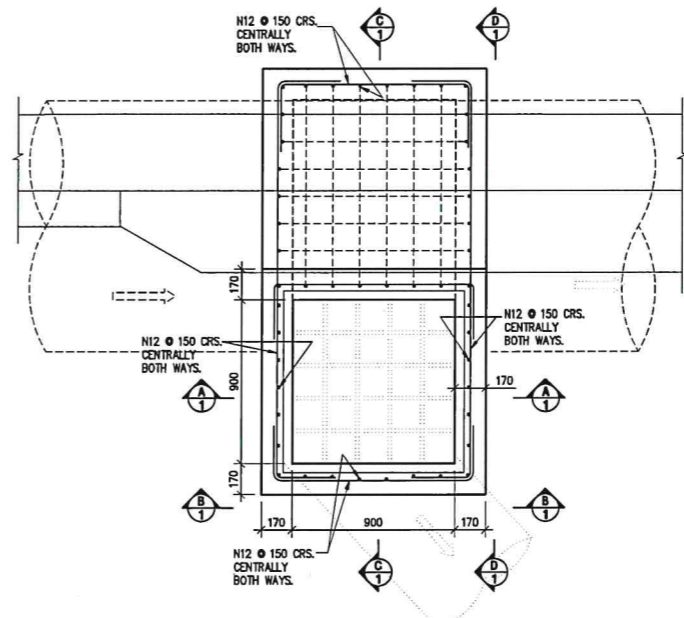
HYDRAULIC DESIGN OF PIPES AND GROSS POLLUTANT TRAP BY OTHERS

**CONCRETE NOTES**

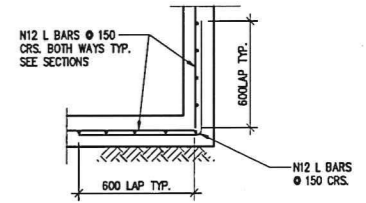
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWING AND SPECIFICATION.
2. ALL CONCRETE AND WORKMANSHIP TO BE IN ACCORDANCE WITH A.S.3600 ASSOCIATED AUSTRALIAN STANDARDS AND THE FOLLOWING TABLE:

| ELEMENT   | SLUMP | MAX. AGG. SIZE | GRADE |
|-----------|-------|----------------|-------|
| BASE SLAB | 80mm  | 20mm           | N50   |
| WALLS     | 80mm  | 20mm           | N50   |
| LID SLAB  | 80mm  | 20mm           | N50   |

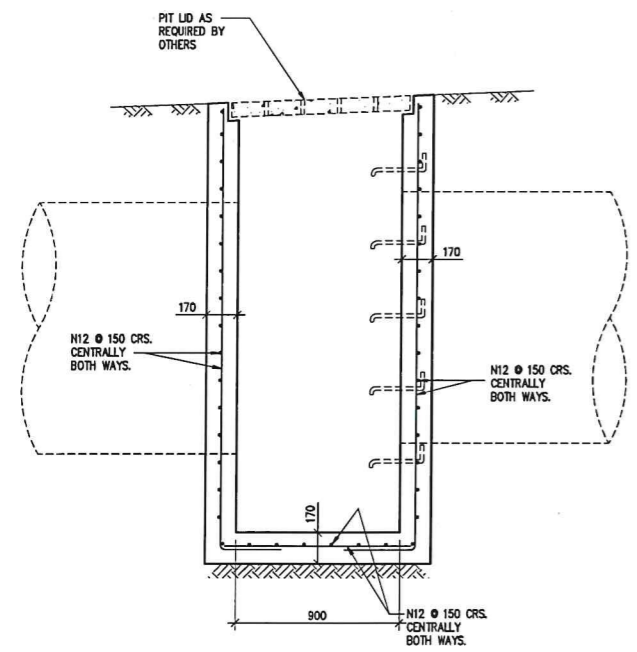
3. ALLOW AT LEAST 7 DAYS CURING OF WALLS/COLUMNS PRIOR TO POURING LID SLAB.
4. WATERPROOFING AND SUBSOIL DRAINAGE IF REQUIRED TO BE SPECIFIED BY COUNCIL.
5. NO HOLES OR CHASES OTHER THAN SHOWN ON THE STRUCTURAL DRAWINGS TO BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
6. ALL CONCRETE TO BE COMPACTED BY A MECHANICAL VIBRATOR. THE VIBRATOR SHALL NOT BE USED TO SPREAD THE CONCRETE.
7. FORMWORK TO SUSPENDED SLABS (LID) AND BEAMS TO REMAIN IN PLACE FOR A FULL 14 DAYS. DO NOT BACKFILL OR LOAD SUSPENDED (LID) SLAB UNTIL CURING PERIOD OF AT LEAST 28 DAYS.
8. DO NOT PLACE CONDUITS, PIPES, ETC. IN CONCRETE COVER.
9. REINFORCEMENT SYMBOLS :  
N - DENOTES DEFORMED D500N BARS TO AS/NZS 4671  
R - DENOTES PLAN 230R GRADE BARS TO AS 1302  
SL - DENOTES DEFORMED SQUARE D500SL GRADE MESH TO AS/NZS 4671
10. ALL REINFORCEMENT TO BE SUPPORTED ON BAR CHAIRS SPACED AT EVERY 4TH. WIRE OR 800mm IN BOTH DIRECTIONS.
11. CURE CONCRETE BY KEEPING CONSTANTLY DAMP FOR AT LEAST 5 DAYS AFTER PLACING.
12. BACKFILLING BEHIND WALLS MAY BE DONE AFTER AT LEAST 7 DAYS CONCRETE CURING. DO NOT PLACE HEAVY MACHINERY OR PLANT IN BACKFILL IMMEDIATELY BEHIND WALLS UNTIL LID SLAB HAS CURED FOR AT LEAST 14 DAYS.



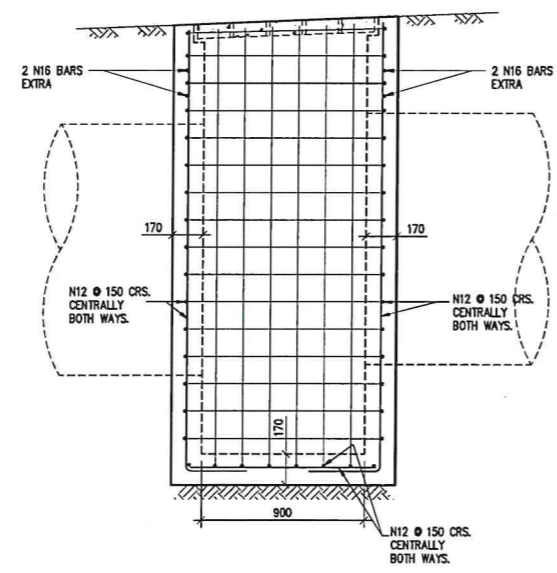
**PLAN - PIT No.1**  
SCALE 1:20



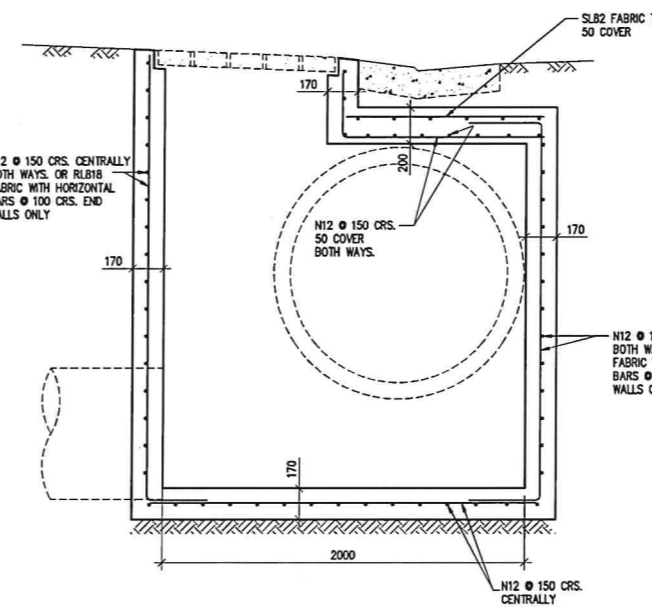
**DETAIL - ALT CORNER LAP**  
SCALE 1:20



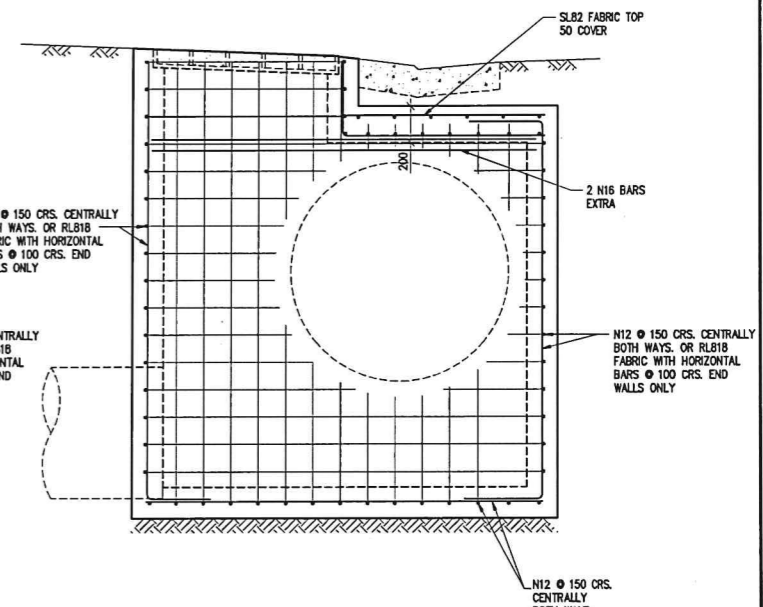
**SECTION A**  
SCALE 1:20



**SECTION B**  
SCALE 1:20



**SECTION C**  
SCALE 1:20



**SECTION D**  
SCALE 1:20

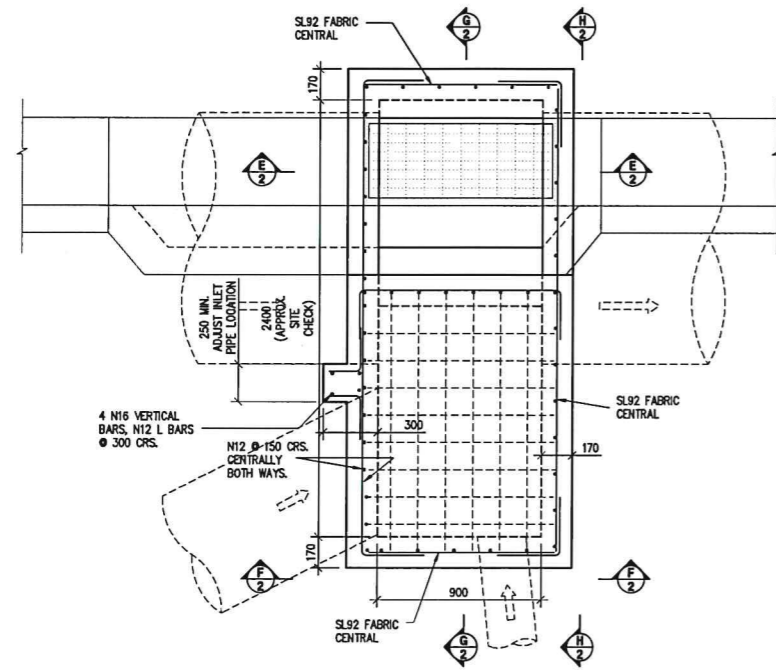
| ISSUE     | DATE | APP'D | DESCRIPTION |
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| REVISIONS |      |       |             |

**KNEEBONE & BERETTA CONSULTING**  
CONSULTING STRUCTURAL & CIVIL ENGINEERS  
ABN 43 734 246 264  
UNIT 18, 7 ANELLA AVENUE, CASTLE HILL NSW 2154  
P: (02) 8850-0799 E: info@kbgconsulting.com W: www.kbgconsulting.com

SCALE 1:20 @ A1  
DATE 30/03/2023  
DRAWN OC  
CHECKED MT  
APPROVED *[Signature]*

CLIENT : HORNSBY COUNCIL  
**PROPOSED PITS (PIT 1 AND PIT 9818) AT WATER STREET, HORNSBY FOR HORNSBY SHIRE COUNCIL**  
DRAWING NUMBER **93175-1**  
ISSUE





**PLAN - PIT No. 9818**  
SCALE 1:20

**DESIGN LOADING ASSUMPTIONS**

**DURING CONSTRUCTION:**

- CONSTRUCTION LIVE LOAD ONTO SLAB/FOOTING = 14T EXCAVATOR 100KN MAX. POINT LOAD - WORKING

**POST CONSTRUCTION LOADS:**

- 0.6m MAX. SOIL HEIGHT OVER PIT
- 5.0KPA (500 Kg/m<sup>2</sup>) MAX. LIVE LOAD

GEO TECHNICAL ENGINEER TO CONFIRM MINIMUM BEARING CAPACITY OF 300 KPa.

ALL EXCAVATION, SHORING AND BENCHING TO BE DONE IN ACCORDANCE WITH EXCAVATION CODE OF PRACTICE.

ADEQUACY OF PIPE INFRASTRUCTURE TO BE BY OTHERS

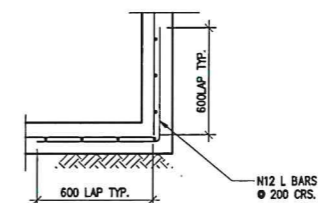
HYDRAULIC DESIGN OF PIPES AND GROSS POLLUTANT TRAP BY OTHERS

**CONCRETE NOTES**

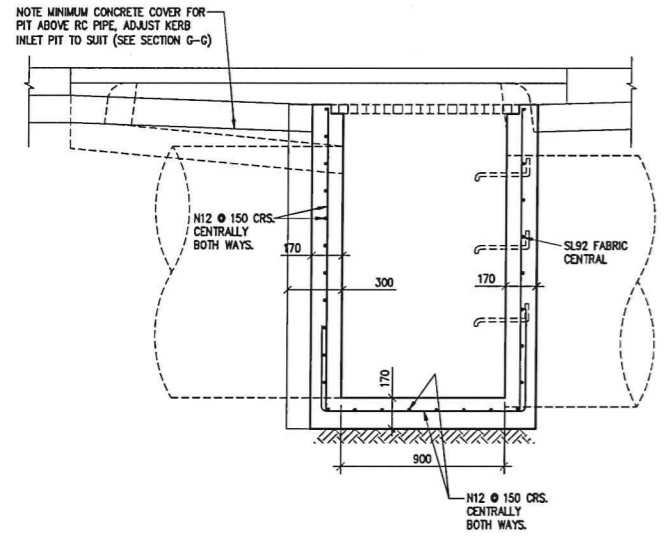
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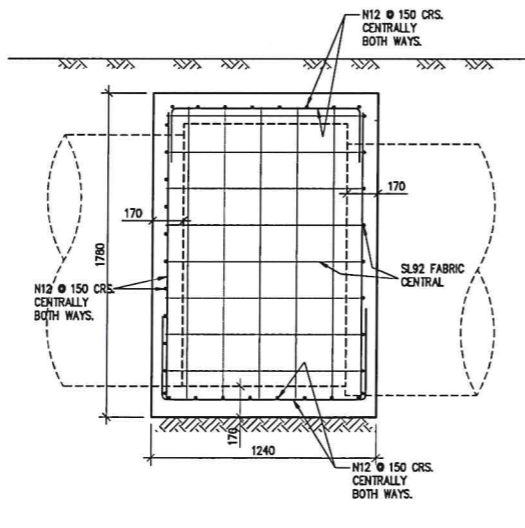
- ALLOW AT LEAST 7 DAYS CURING OF WALLS/COLUMNS PRIOR TO POURING LID SLAB.
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- REINFORCEMENT SYMBOLS:  
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R - DENOTES PLAN 230R GRADE BARS TO AS 1302  
SL - DENOTES DEFORMED SQUARE D500SL GRADE MESH TO AS/NZS 4671
- ALL REINFORCEMENT TO BE SUPPORTED ON BAR CHAIRS SPACED AT EVERY 4TH WIRE OR 800mm IN BOTH DIRECTIONS.
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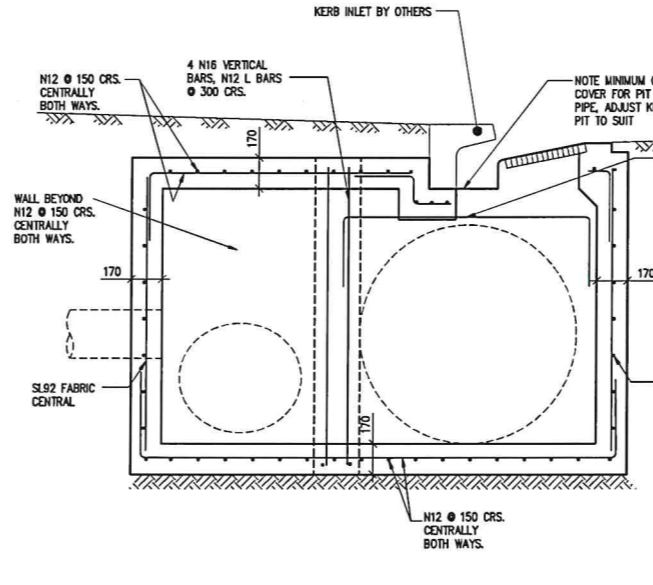
**DETAIL - ALT CORNER LAP**  
SCALE 1:20



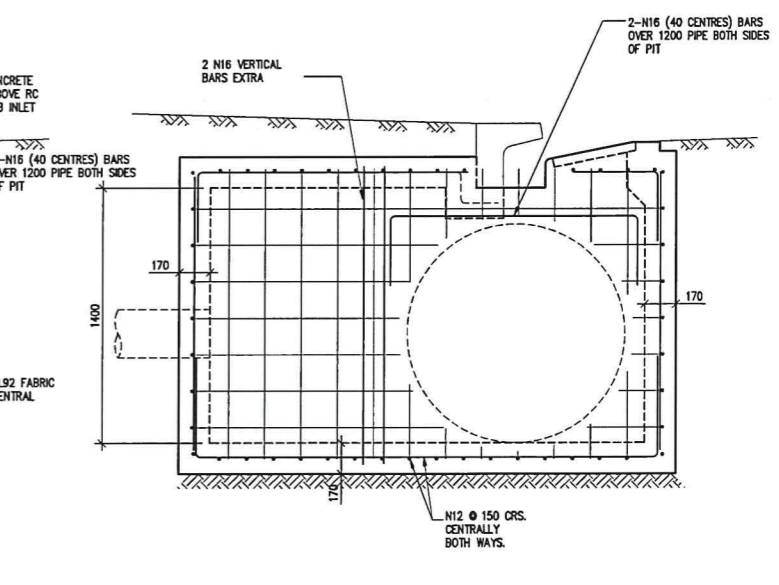
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**SECTION F**  
SCALE 1:20



**SECTION G**  
SCALE 1:20



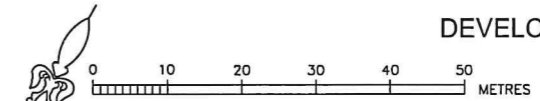
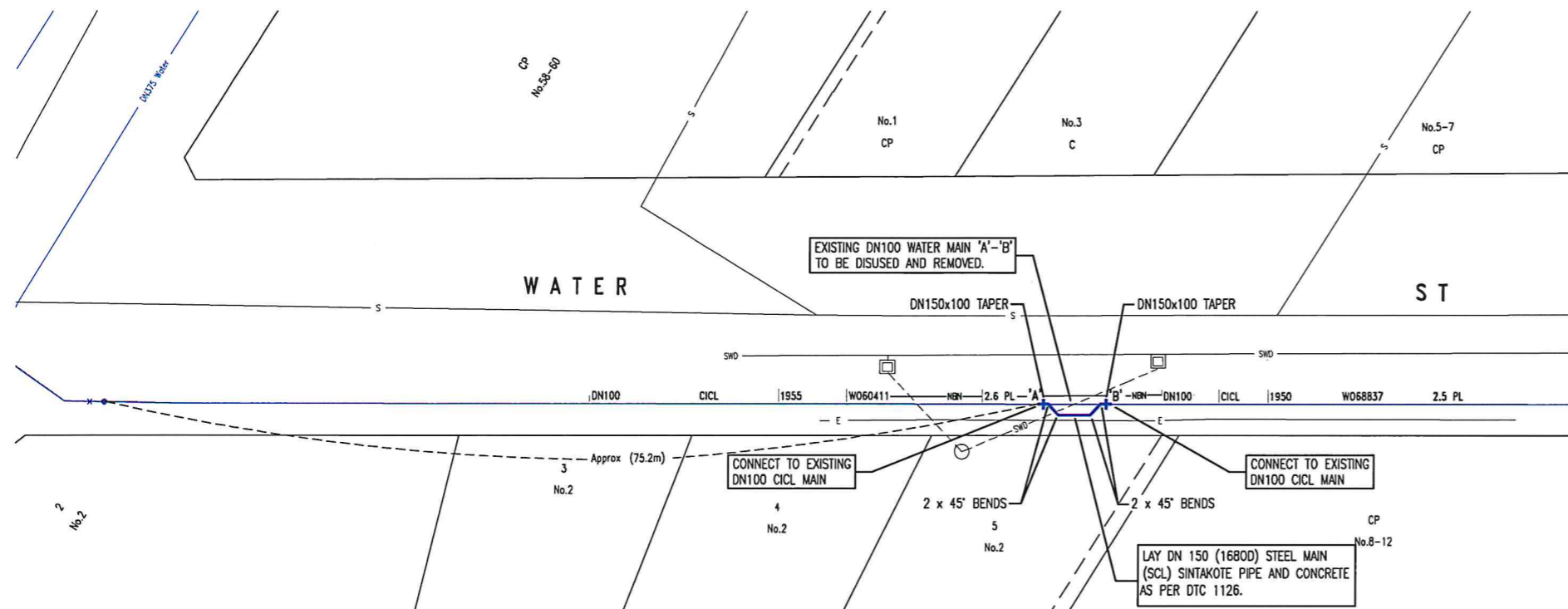
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| ISSUE     | DATE | APP'D | DESCRIPTION |
|-----------|------|-------|-------------|
| REVISIONS |      |       |             |

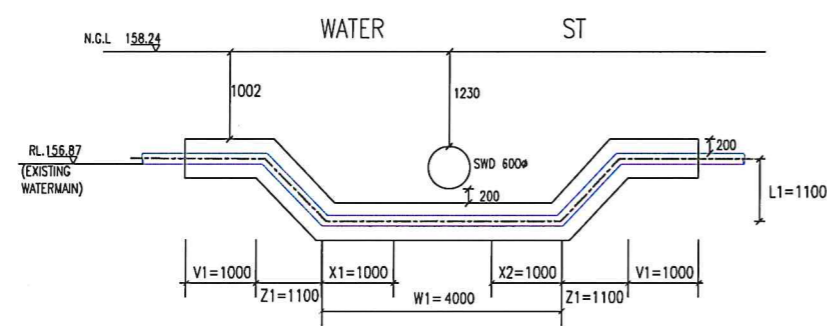
**KNEEBONE & BERETTA CONSULTING** PTY LTD  
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SCALE 1:20 @ A1  
DATE 30/03/2023  
DRAWN GC  
CHECKED MT  
APPROVED *[Signature]*

CLIENT: HORNSBY COUNCIL  
PROPOSED PITS (PIT 1 AND PIT 9818) AT WATER STREET, HORNSBY FOR HORNSBY SHIRE COUNCIL  
STRUCTURAL DETAILS  
DRAWING NUMBER 93175-2  
ISSUE



- NOTES :-
- WATER SERVICE COORDINATOR:  
OLSEN INFRASTRUCTURE P/L  
14/10 GLADSTONE RD, CASTLE HILL  
PH: 9899 4001 FAX: 9899 6005  
FOR  
HORNSBY SHIRE COUNCIL  
296 PEATS FERRY RD, HORNSBY 2077  
PH: 02 9847 6878
  - MAIN TO BE LAID GENERALLY 2.6m PL AT STANDARD DEPTH BELOW TOP OF KERB EXCEPT WHERE OTHERWISE SHOWN.
  - MAINTAINING NOT TO PROCEED PRIOR TO FORMATION OF FOOTWAYS TO FINISHED SURFACE LEVELS.
  - MAIN TO BE LAID UNDER STORMWATER UNLESS OTHERWISE INDICATED
  - THE MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 SYDNEY WATER EDITION ARE AS FOLLOWS:  
TRAFFICABLE:  
PIPE EMBEDMENT ZONE : NIL\* TRENCH FILL ZONE: NIL 0  
NON-TRAFFICABLE:  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 2 TESTS  
\*TRENCHES IN ROADWAY TO BE BACKFILLED USING STABILISED SAND (20:1 SAND TO CEMENT MIX) TO ROAD BASE LEVEL.  
NUMBER OF TESTS TO BE VERIFIED BY AN ACCREDITED FIELD TESTER. NUMBERS PROVIDED ABOVE TO BE USED AS A GUIDE ONLY. THE FIELD TESTER MUST ENSURE THE CORRECT NUMBER OF TESTS IS CARRIED OUT TO SATISFY THE WATER SUPPLY CODE OF AUSTRALIA AS PER SYDNEY WATER'S INSTRUCTION TO FIELD TESTERS.
  - CONCRETE TO BE N25.
  - ANCHOR BLOCKS TO BE PRE-POURED PRIOR TO CONNECTION.
  - CONTRACTOR TO SUBMIT THE WORK METHODS STATEMENT TO PROJECT MANAGER PRIOR TO COMMENCEMENT OF WORKS.
  - CONTRACTOR TO SUBMIT CONSTRUCTION PROGRAM TO THE PROJECT MANAGER PRIOR TO COMMENCEMENT OF WORK OUTLINING:  
• CONSTRUCTION PRECAUTIONS TO MINIMISE INCONVENIENCE  
• POTENTIAL DAMAGE TO STRUCTURAL AND MANMADE FEATURES  
• RESTORATION
  - THIS PLAN SHALL BE READ IN CONJUNCTION WITH THE FOLLOWING SYDNEY WATER'S DEEMED TO COMPLY DRAWINGS:  
DTC 1112 - B - 29.02.12  
DTC 1114 - A - 31.01.12  
DTC 1126 - A - 31.01.12
  - SERVICES SHOWN ARE INDICATIVE ONLY, A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE NECESSARY PRIOR TO COMMENCEMENT OF THE WORK AND APPROPRIATE PROCEDURES, PRECAUTIONS AND CARE NEED TO BE TAKEN WHEN WORKING WITHIN CLOSE PROXIMITY OF ANY SERVICES.
  - CONTRACTOR TO VERIFY EXACT LOCATIONS OF ALL EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING CONSTRUCTION. ANY DAMAGE TO EXISTING SERVICES TO BE RECTIFIED AT THE CONTRACTOR'S EXPENSE.
  - CLEARANCES BETWEEN WATER MAINS AND OTHER SERVICE UTILITY ASSETS SHALL NOT BE LESS THAN:  
GAS (LP) AND TELECOMMUNICATION CONDUITS & CABLES: 150mm  
ELECTRICITY CONDUITS AND CABLES: 225mm  
SEWERS (GRAVITY) : 500mm  
GAS (HP) : >400mm  
(SOURCE: WSA 03-2011-3.1 TABLE 5.5 AND JEMENA REQUIREMENTS)
  - BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL WAC DETAILS HAVE BEEN OBTAINED BY THE DESIGNER, AND APPROVAL FOR BACKFILL GIVEN BY THE WSC.
  - THE PROPOSED WORKS DETAILED HERE ON TO BE CONSTRUCTED IN ACCORDANCE WITH THE WATER SERVICES ASSOCIATION OF AUSTRALIA - WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 SYDNEY WATER EDITION - 2014 THE CONTRACTOR MUST HAVE A COPY OF THIS DOCUMENT ON SITE AT ALL TIMES.
  - THIS PLAN USES GDA2020 COORDINATES.



DETAIL 1 - CROSSING UNDER STORMWATER  
NOT TO SCALE

TABLE 1 (DTC-1126)

| DIMENSIONS (mm) |      |
|-----------------|------|
| W1              | 4000 |
| X1              | 1000 |
| X2              | 1000 |
| Z1              | 1100 |
| V1              | 1000 |
| Rocker Pipe     | 450  |

(APPROXIMATE DIMENSIONS TO BE CONFIRMED ON SITE)

**FOR INFORMATION ONLY**  
**WATERMAIN ADJUSTMENT**  
**WORKS BY OTHERS PRIOR TO**  
**GPT & STORMWATER WORKS.**

|   |                            |     |          |
|---|----------------------------|-----|----------|
| D | AMENDED PIPE SCHEDULE      | PP  | 25.05.23 |
| C | AMENDED LEVELS & DISTANCES | J.L | 24.05.23 |
| B | AMENDED NOTES & DESIGN     | J.L | 26.04.23 |
| A | ISSUE FOR APPROVAL         | J.L | 07.03.23 |

| No. | AMENDMENT DESCRIPTION | BY | DATE |
|-----|-----------------------|----|------|
|     |                       |    |      |

| UTILITIES    |             |          | WORK AS CONSTRUCTED CERTIFICATION |   |                            | PIPE SCHEDULE |      | AUSTRALIAN HEIGHT DATUM |        | SYDNEY WATER CORPORATION    |   |                   |                       |
|--------------|-------------|----------|-----------------------------------|---|----------------------------|---------------|------|-------------------------|--------|-----------------------------|---|-------------------|-----------------------|
| SEWER:       | S           | 07.03.23 | HYDRA                             | DEVELOPER   | WATER SERVICE CO-ORDINATOR | SIZE DN       | TYPE | CLASS                   | LENGTH | PIPE JOINING METHOD / NOTES | NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY. |                   |                       |
| STORMWATER:  | SWD         | 07.03.23 | ENG                               | CONSTRUCTOR   | COMPLETED                  | 168           | SCL  | 5mm                     | 9.2    | Fully Welded                |   |                   | Case No. 205465PW     |
| TELSTRA:     | TEL         | 07.03.23 | ENG                               | DESIGNER  |                            | 100           | DICL | DN35                    | 0.9    | Fully Welded                | U.B. DIRECTORY  | 133_J15 (41st Ed) | WATERMAIN ADJUSTMENT  |
| ENERGY AUST: | E           | 07.03.23 | ENG                               | I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS. |                            |               |      |                         |        |                             |   |                   | WATER STREET          |
| WATER:       | DN100 Water | 07.03.23 | HYDRA                             |   |                            |               |      |                         |        |                             |   |                   | HORNSBY               |
|              |             |          |                                   |   |                            |               |      |                         |        |                             |   |                   | Hornsby Shire Council |