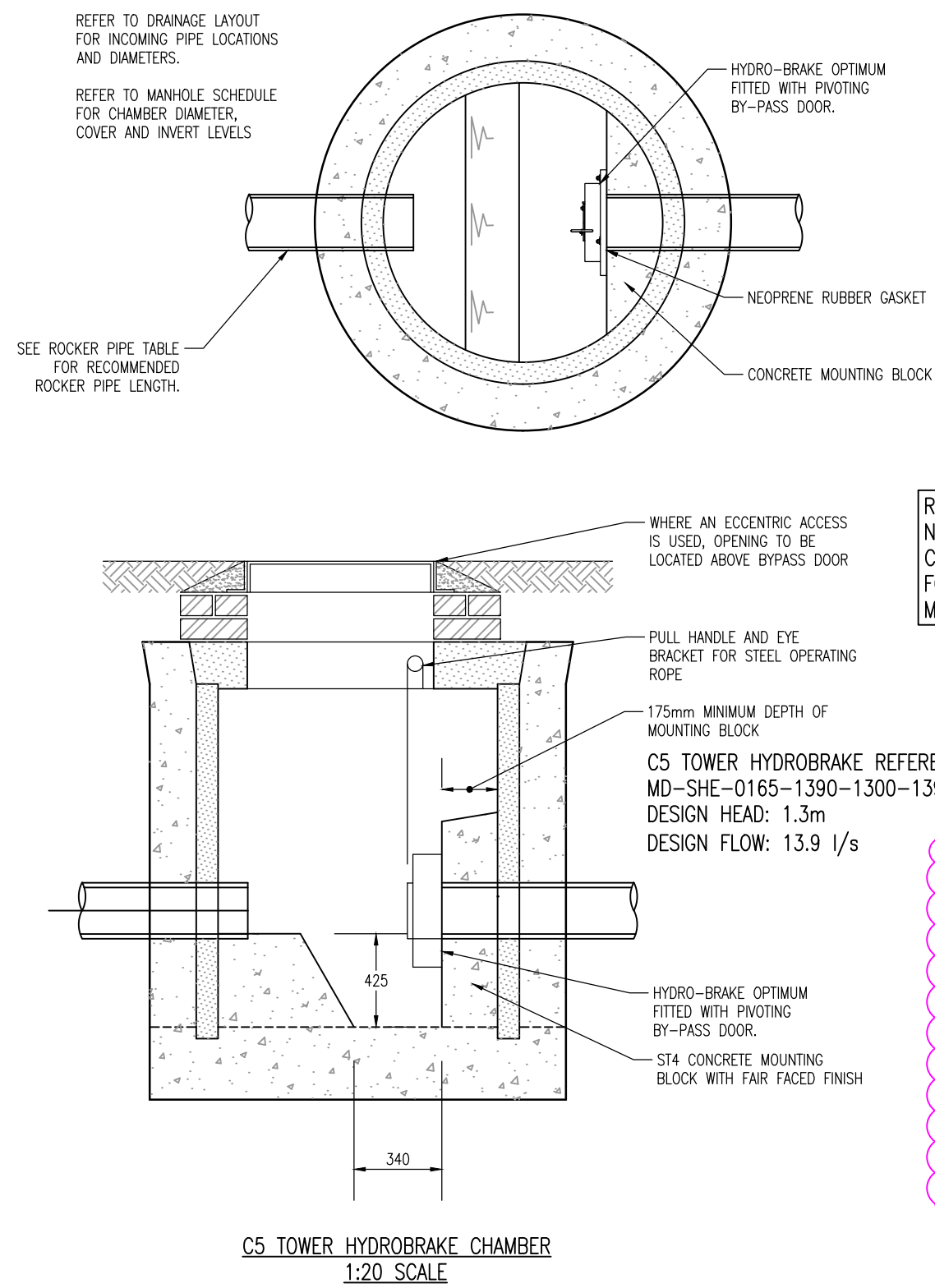
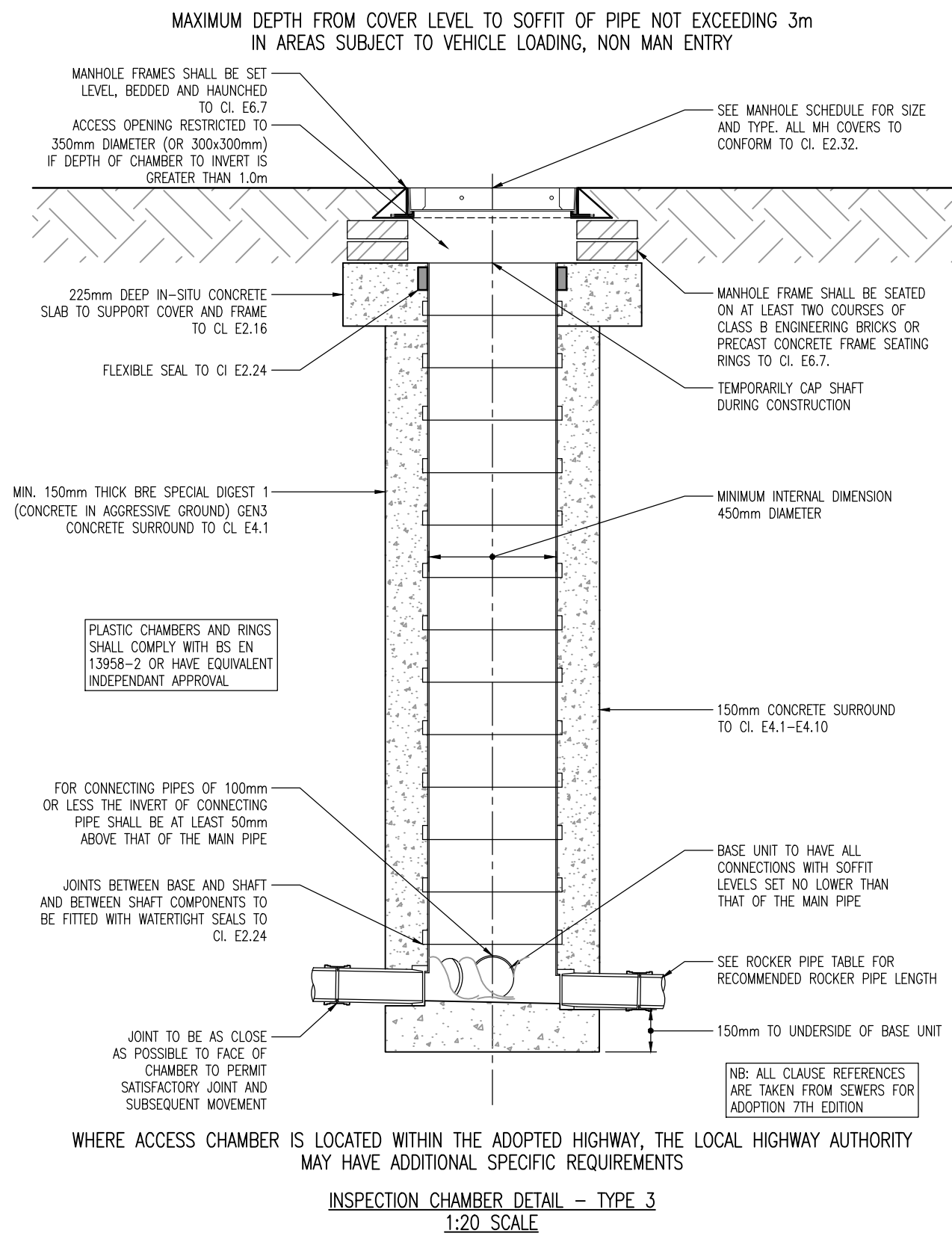
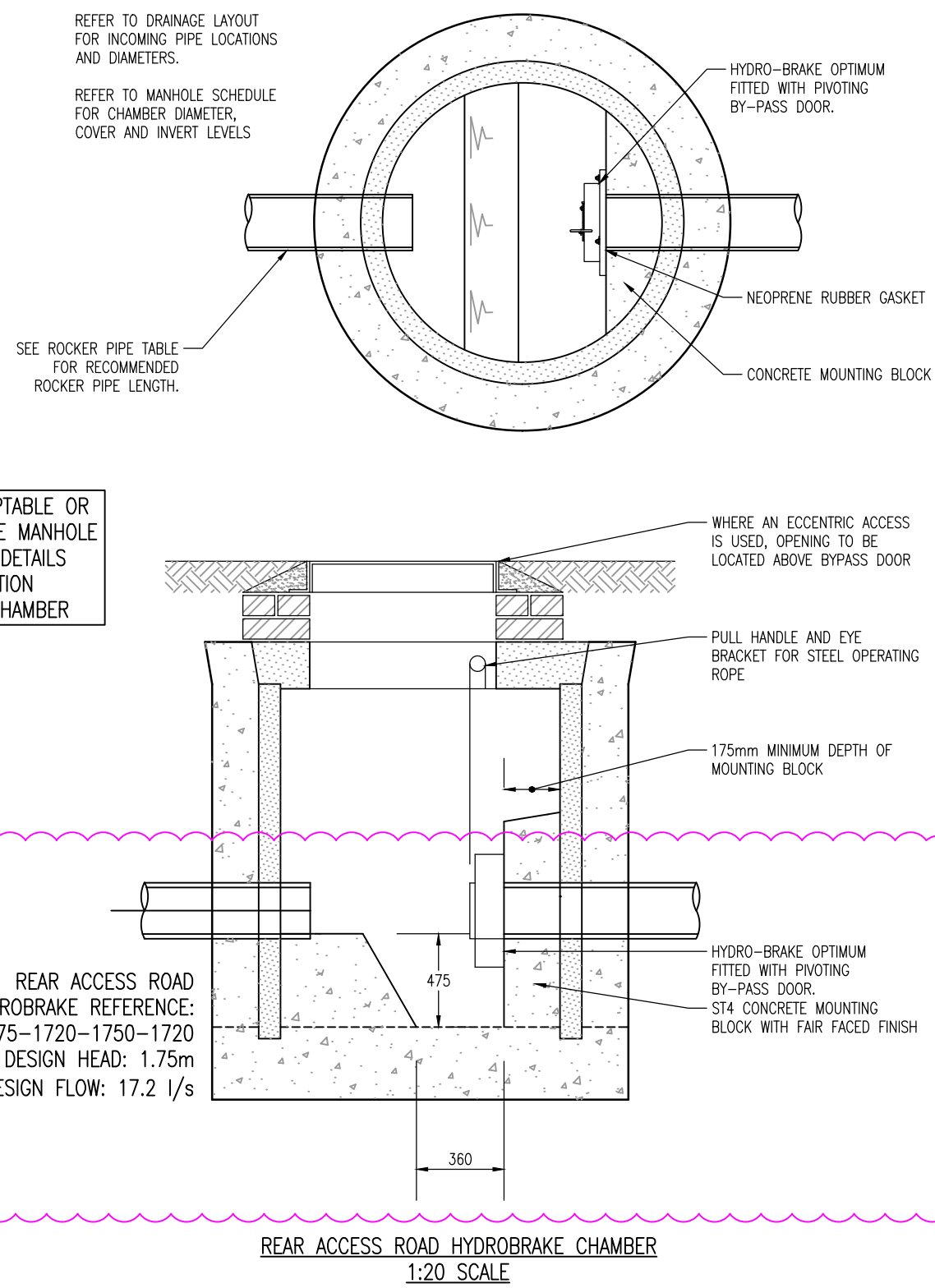


File name: \\UK.VSPGROUP.COM\CENTRAL DATA\PROJECTS\70064036\04036 - CROWN STREET INCR. DRAINAGE\03 WPCV CIVIL ENGINEERING\03 DRAWINGS\WORKING\Z1-WSP-G580-DE-XX-DR02.DWG, printed on 15 January 2021 11:53:03 by McGowan, Jordan



REFER TO ADAPTABLE OR NON-ADAPTABLE MANHOLE CONSTRUCTION DETAILS FOR CONSTRUCTION MAKE-UP OF CHAMBER



| PIPE BEDDING HATCHINGS |                                                                                    |                                                                   |                                                                                                       |
|------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| HATCH                  | SPECIFICATION FOR HIGHWAY WORKS (SHW)                                              | SEWERS FOR ADOPTION 7th EDITION (SFA7)                            | NON-ADAPTABLE WORKS (DOC. H)                                                                          |
|                        | TRENCH BACKFILL TO SHW CL 505                                                      | 20-200mm UNIFORM GRADED MATERIAL TO SFA7 CL E.3.4*                | SELECTED FILL OR GRANULAR FILL FREE FROM STONES>40mm                                                  |
|                        | CLASS B MATERIAL TO SHW CL 503.3 (iv)                                              | SELECTED BACKFILL MATERIAL IN ACCORDANCE WITH SFA7 CL E.3.4*      | SELECTED FILL FREE FROM STONES>40mm, LUMPS OF CLAY>100mm, TIMBER, FROZEN MATERIAL OR VEGETABLE MATTER |
|                        | CONCRETE TO SHW CL 503.3 (ii)                                                      | GEN3 (C16/C20) CONCRETE TO SFA7 CL E.5.3                          | ST4 CONCRETE TO BS 8500-2                                                                             |
|                        | GRANULAR MATERIAL TO SHW CL 503.3 (i)                                              | GRANULAR OR AS-DUG MATERIAL TO WIS 4-08-02 - REFER TO TABLE BELOW | GRANULAR OR AS-DUG MATERIAL TO BS EN 1295-1 - REFER TO TABLE BELOW                                    |
|                        | TYPE B FILTER MEDIA TO SHW CL 505                                                  | N/A                                                               | 20/40mm SIZE CLEAN GRANULAR MATERIAL                                                                  |
|                        | TYPE A OR C FILTER MATERIAL TO SHW CL 505 OR GRANULAR MATERIAL TO SHW CL 503.3 (i) | N/A                                                               | 0/20mm SIZE CLEAN GRANULAR MATERIAL                                                                   |
|                        | TURF OR SEED ON TOPSOIL AS DESCRIBED IN SHW APPENDIX 5/1                           | N/A                                                               | TURF OR SEED ON TOPSOIL AS PER LANDSCAPE ARCHITECT'S SPECIFICATION                                    |
|                        | GRANULAR MATERIAL TO SHW CL 503.3 (i) e.g. SAND                                    | N/A                                                               | 0-4mm FINE AGGREGATE OR SHARP SAND                                                                    |

\*WHERE SFA7 SEWERS ARE LOCATED INSIDE OR WITHIN 1m OF ADOPTED CARRIAGEWAYS (FUTURE OR EXISTING), BACKFILL AND REINSTATEMENT SHALL BE IN ACCORDANCE WITH THE RELEVANT HIGHWAY REINSTATEMENT SPECIFICATION.

"BC" REFERS TO PIPE OUTER BARREL DIAMETER, EXCLUDING SOCKET SECTIONS

#### DIMENSION Y

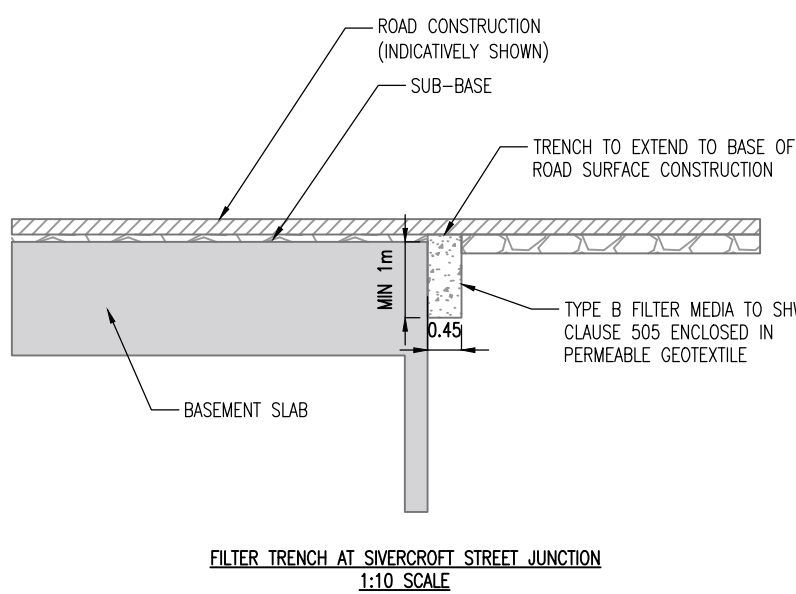
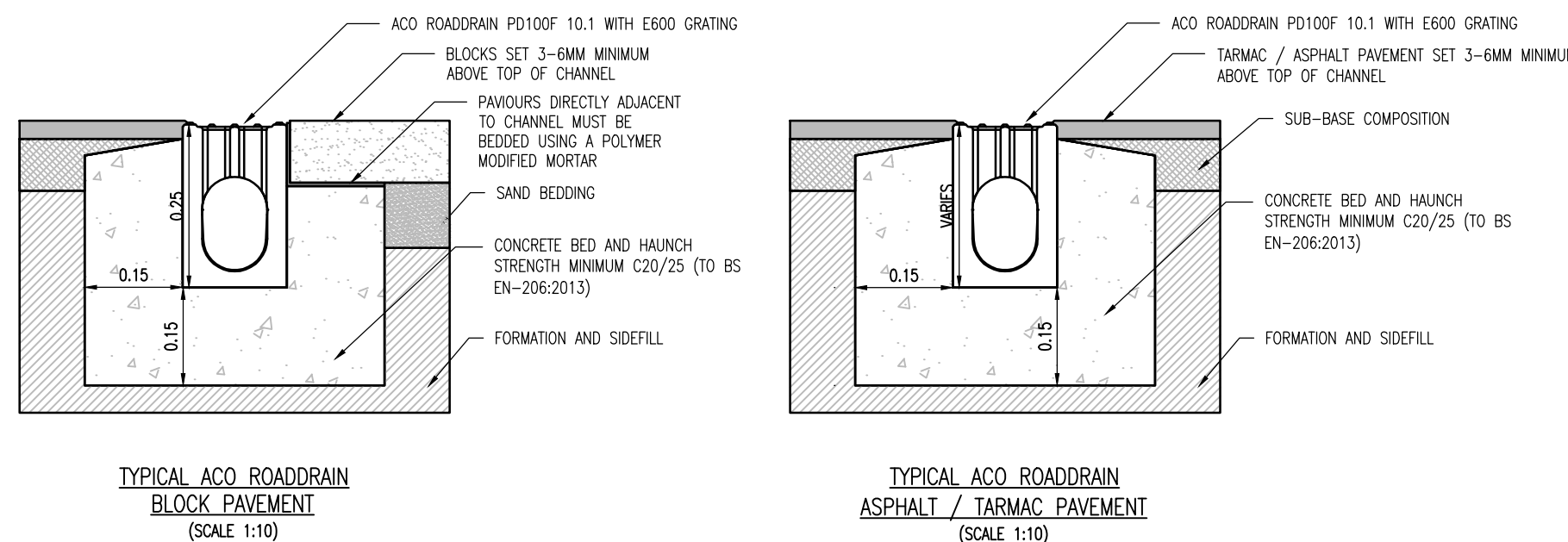
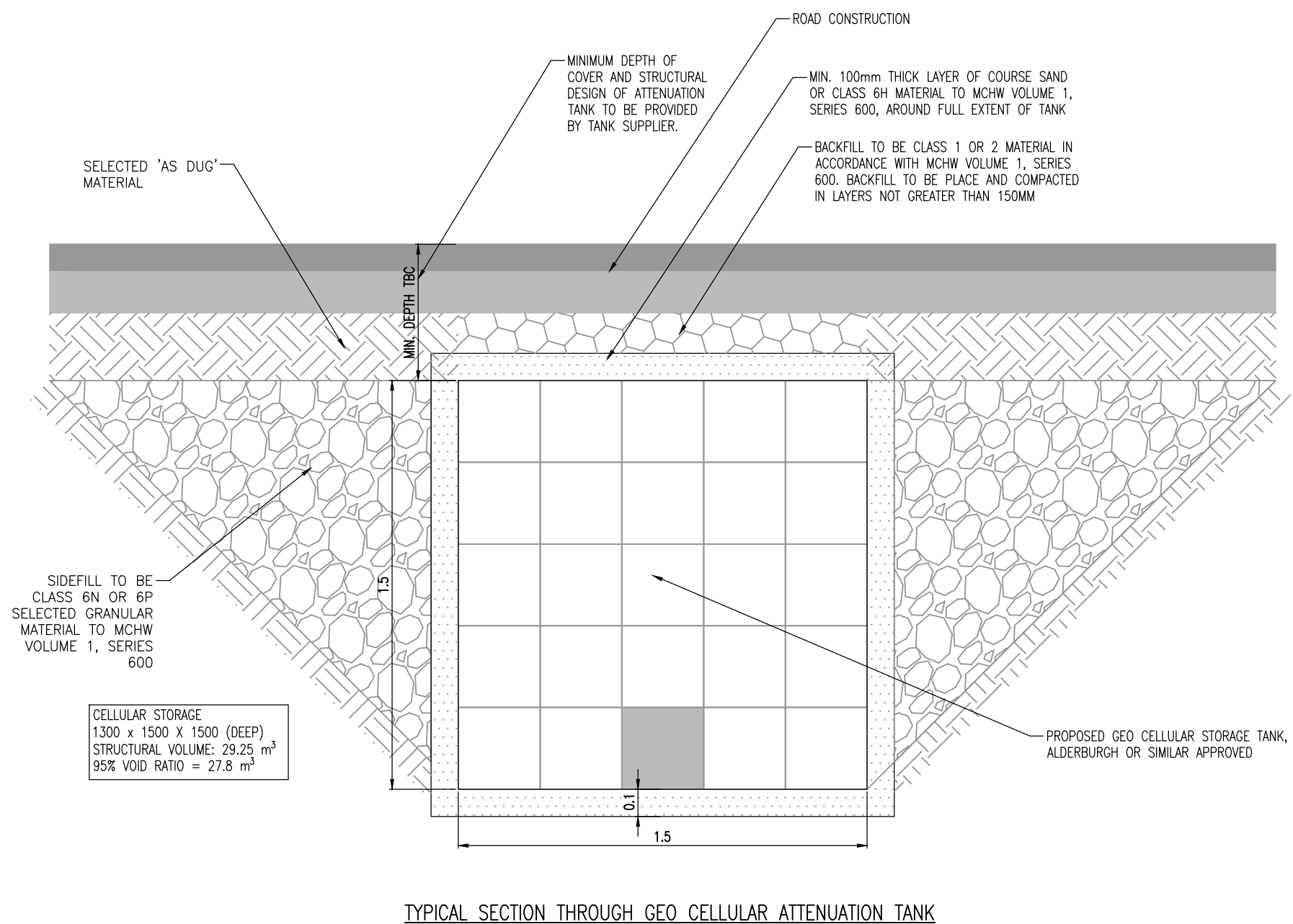
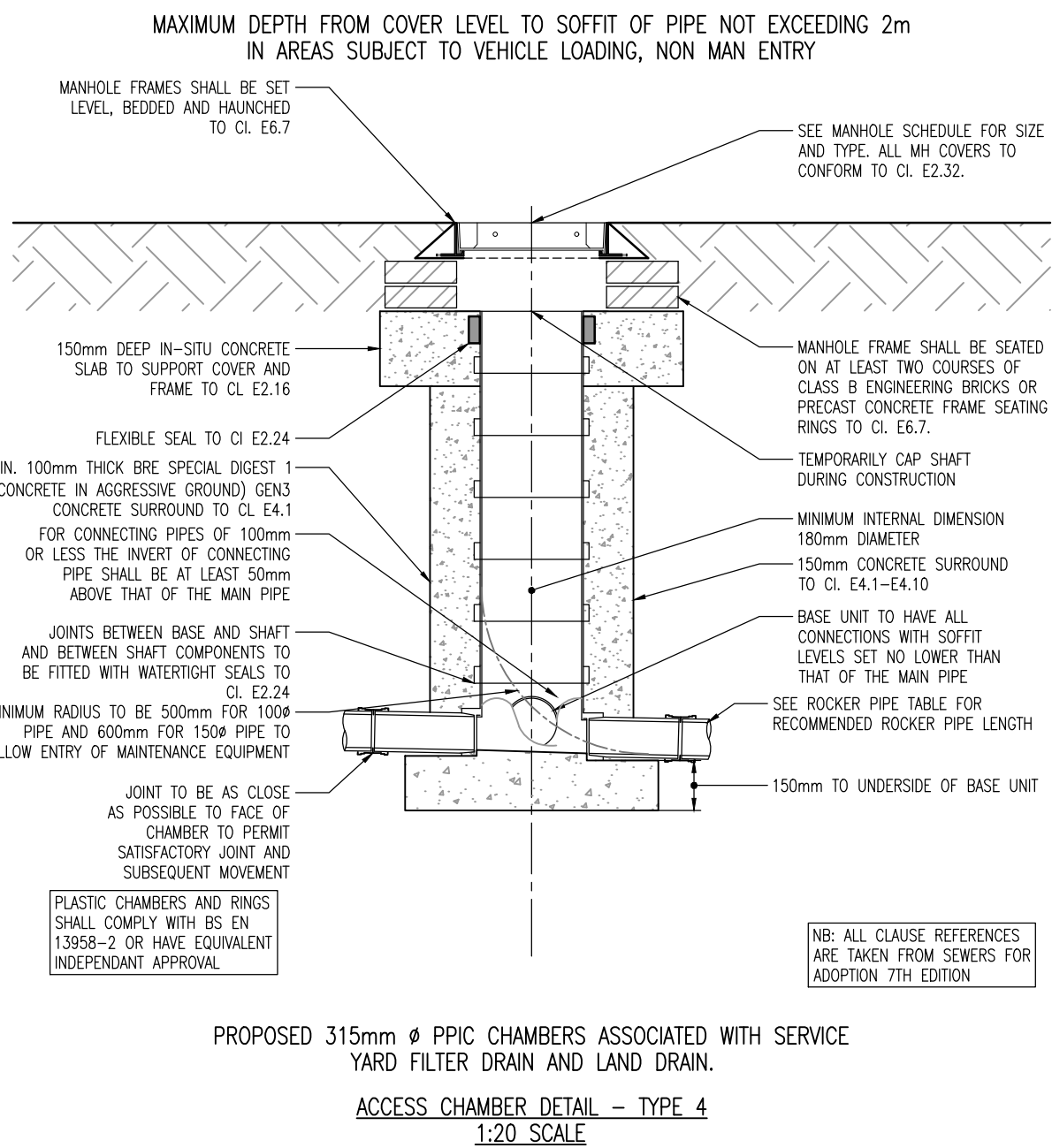
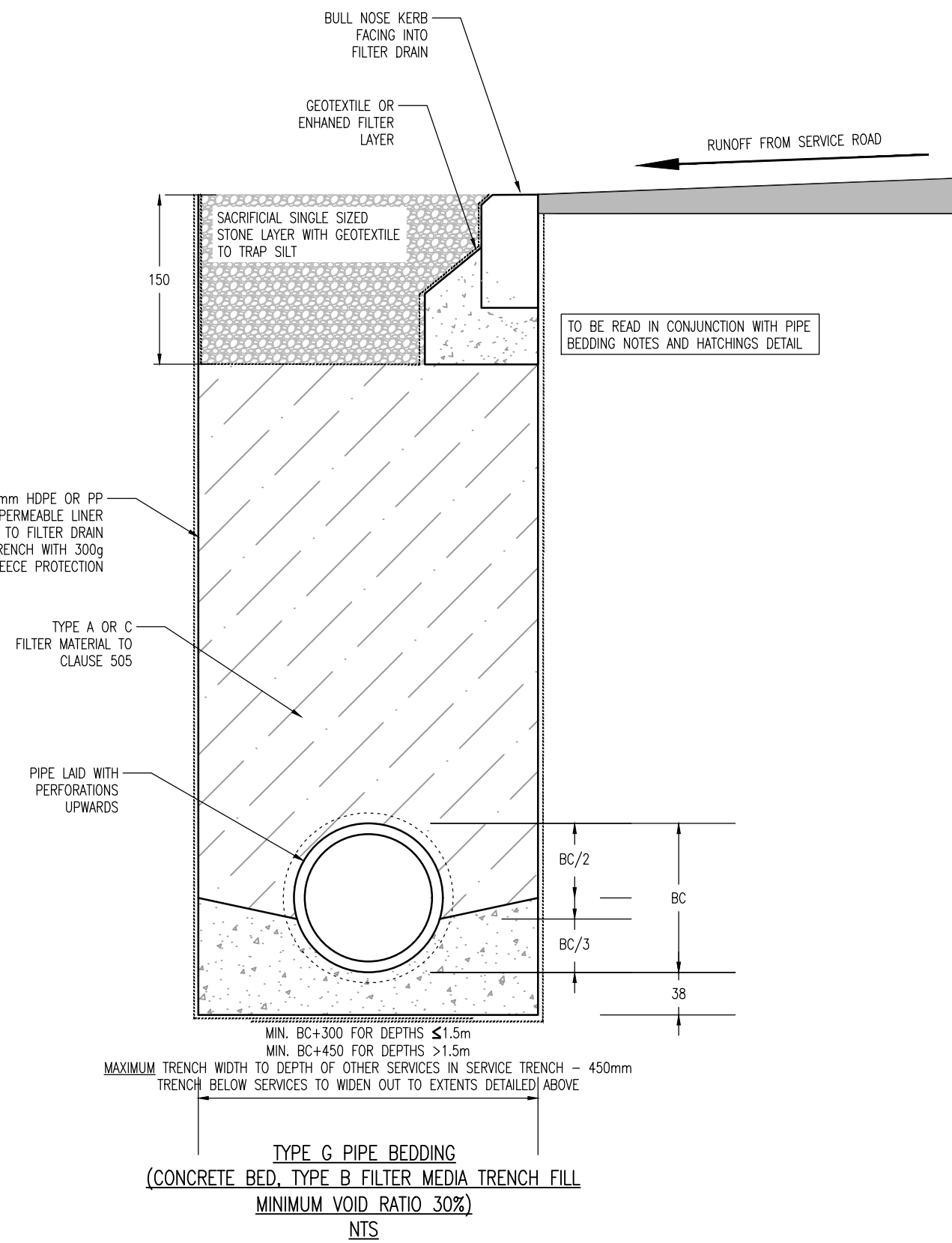
| CLASS     | MACHINE DUG UNIFORM SOIL | ROCK OR MIXED SOILS |
|-----------|--------------------------|---------------------|
| N.F.B & S | NOTE (i)                 | NOTE (ii)           |
| A & Z     | NOTE (i)                 | NOTE (ii)           |

(i) Y=BC/6, WITH MIN 100mm UNDER BARRELS (50mm IF SLEEVE JOINTED) AND MIN 50mm UNDER SOCKETS, WHICHEVER IS THE GREATER

(ii) Y=BC/4, WITH MIN 200 UNDER BARRELS (150 FOR SLEEVE JOINTED) AND MIN 150 UNDER SOCKETS, WHICHEVER IS THE GREATER

| NOMINAL BORE OF PIPE | SIZE (mm)    |         |
|----------------------|--------------|---------|
|                      | SINGLE SIZED | GRADED  |
| 100-125              | 10           | -       |
| 150-200              | 10 OR 14     | 14 TO 5 |
| 225-300              | 10, 14 OR 20 | 14 TO 5 |
|                      |              | OR      |
| 375-500              | 14 OR 20     | 14 TO 5 |
|                      |              | OR      |
| EXCEEDING 500        | 14, 20 OR 40 | 20 TO 5 |
|                      |              | OR      |
|                      |              | 20 TO 5 |
|                      |              | OR      |
|                      |              | 40 TO 5 |

TABLE: SIZE OF GRANULAR MATERIAL FOR PIPE BEDDING COMPLIES WITH - GEN 4-11-02, WS 4-08-02, BS EN 1510 AND THE TBRU DOCUMENT "STRUCTURAL DESIGN OF BURIED RIGID PIPES", 1983; REFERRED BY BS 1295-1.



DO NOT SCALE

| REV | DATE       | BY  | DESCRIPTION                           | CHK | APP |
|-----|------------|-----|---------------------------------------|-----|-----|
| P04 | 15/01/2021 | JAM | FILTER DRAIN HYDRO-BRAKE SPEC UPDATED | SM  | SM  |
| P03 | 11/12/2020 | JAM | DETAILS ADDED                         | SM  | SM  |
| P02 | 23/10/2020 | JAM | DETAILS ADDED                         | SM  | SM  |
| P01 | 02/10/2020 | JAM | FIRST ISSUE                           | SM  | SM  |

DRAWING STATUS: S2 - FOR INFORMATION

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CLIENT: RENAKER BUILD LTD

ARCHITECT: SIMPSON HAUGH

SITE/PROJECT: CROWN STREET, ZONE 2

TITLE: TYPICAL SUSTAINABLE URBAN DRAINAGE (SUDS) CONSTRUCTION DETAILS

|                                    |                   |              |
|------------------------------------|-------------------|--------------|
| SCALE @ A1:                        | CHECKED: SM       | APPROVED: SM |
| PROJECT NO: 70064036               | DESIGNED: JAM     | DRAWN: JAM   |
| DRAWING NO: Z1-WSP-G580-DE-XX-DR02 | DATE: December 20 | REV: P04     |

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