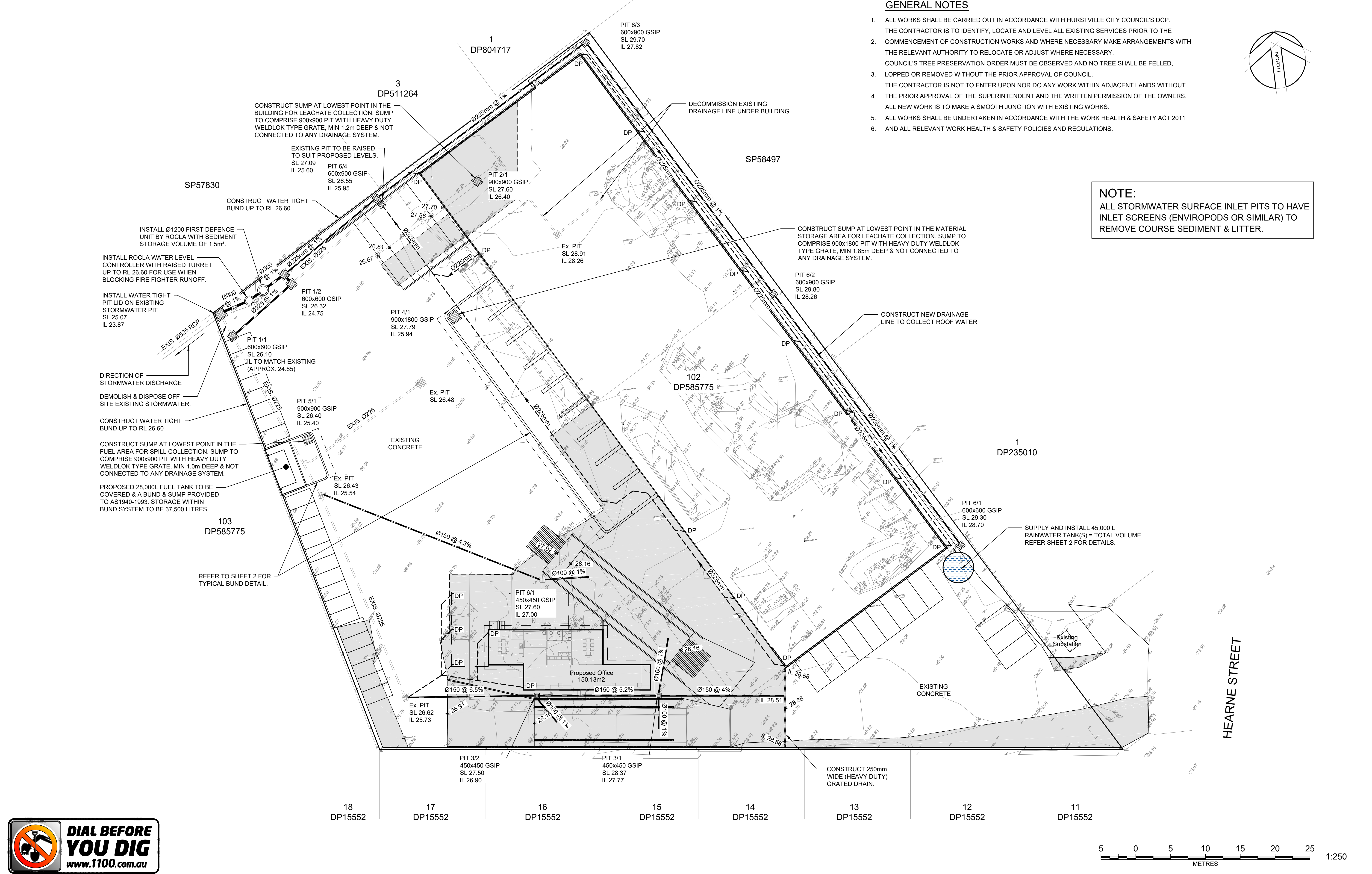




GENERAL NOTES

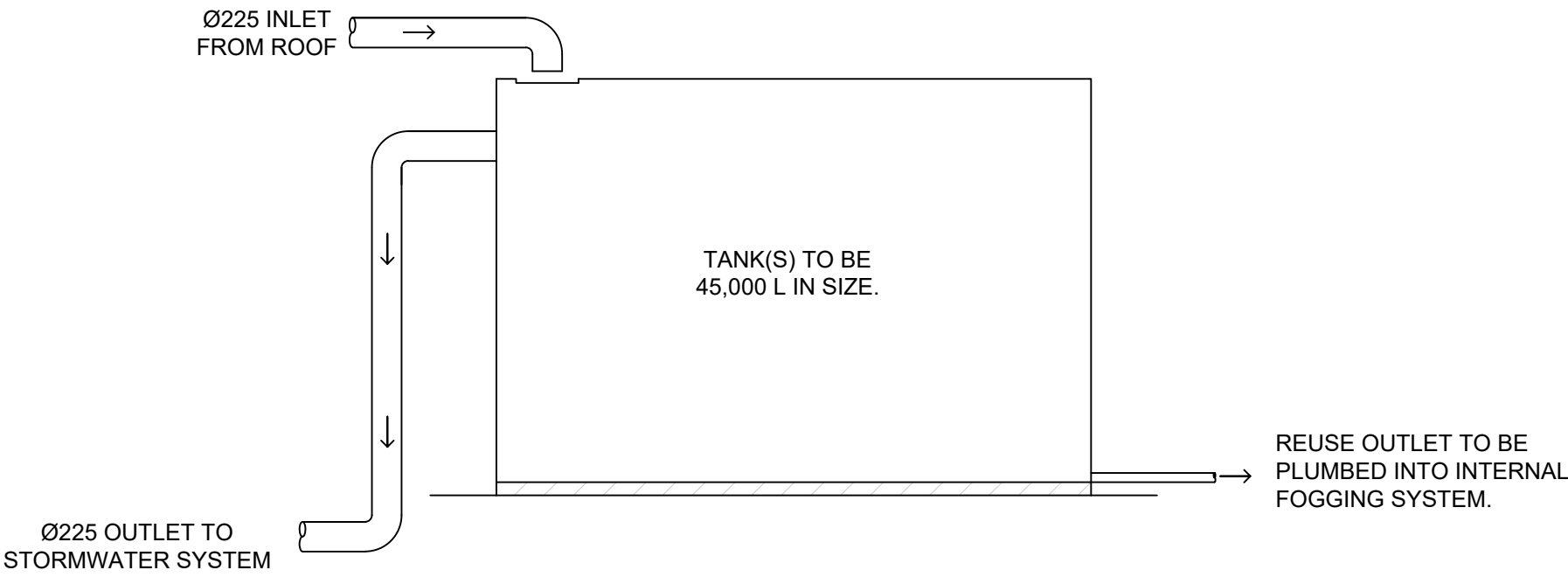
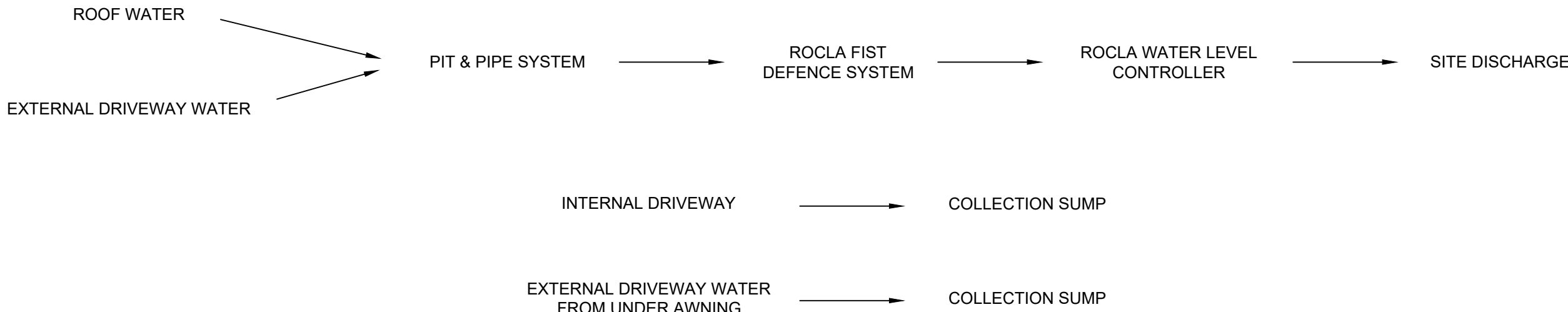
- 1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH HURSTVILLE CITY COUNCIL'S DCP. THE CONTRACTOR IS TO IDENTIFY, LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS AND WHERE NECESSARY MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST WHERE NECESSARY. COUNCIL'S TREE PRESERVATION ORDER MUST BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT THE PRIOR APPROVAL OF COUNCIL.
- 2. THE CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT AND THE WRITTEN PERMISSION OF THE OWNERS.
- 3. ALL NEW WORK IS TO MAKE A SMOOTH JUNCTION WITH EXISTING WORKS.
- 4. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE WORK HEALTH & SAFETY ACT 2011
- 5. AND ALL RELEVANT WORK HEALTH & SAFETY POLICIES AND REGULATIONS.

NOTE:
ALL STORMWATER SURFACE INLET PITS TO HAVE INLET SCREENS (ENVIPODS OR SIMILAR) TO REMOVE COARSE SEDIMENT & LITTER.

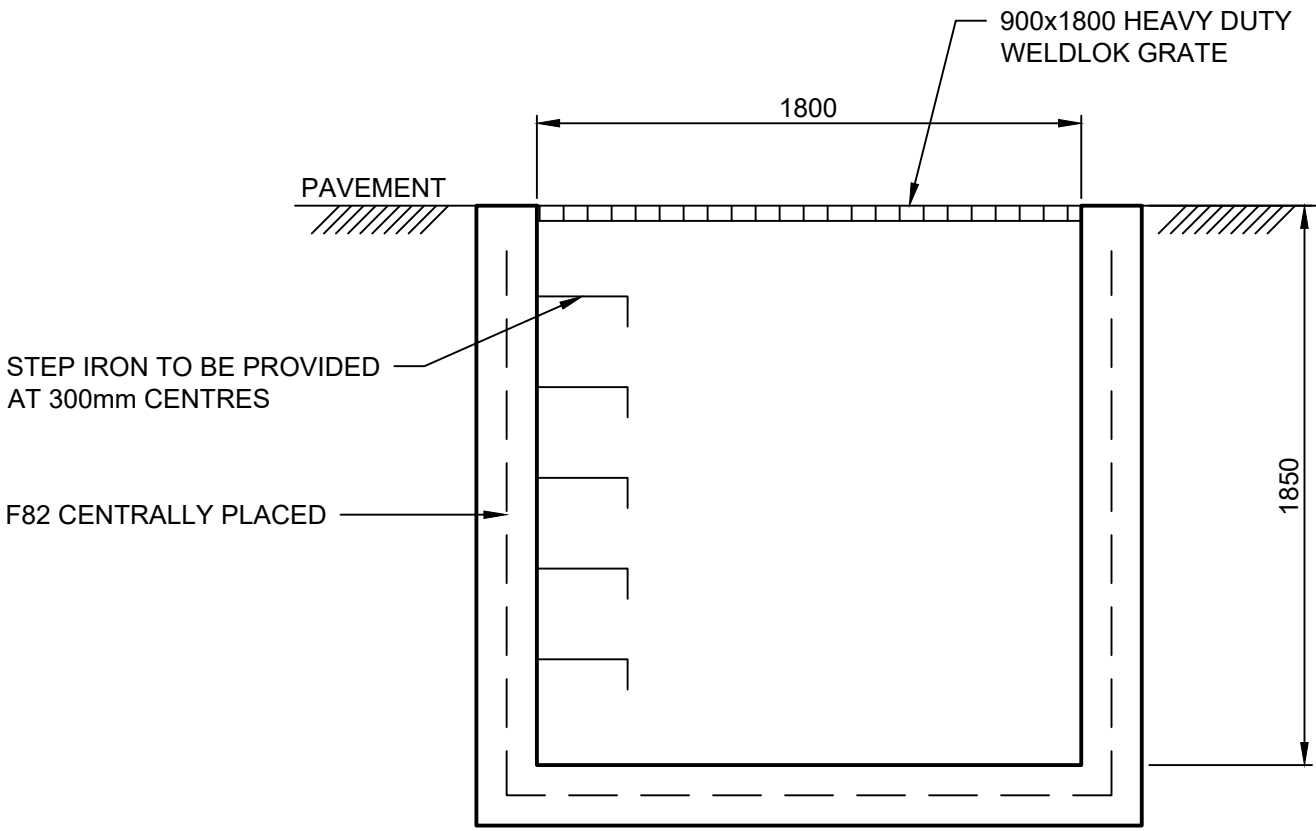


<table><tr><td>E</td><td>23/03/16</td><td>REISSUED FOR APPROVAL</td></tr><tr><td>D</td><td>18/03/16</td><td>REISSUED FOR APPROVAL</td></tr><tr><td>C</td><td>18/03/16</td><td>REISSUED FOR APPROVAL</td></tr><tr><td>B</td><td>17/03/16</td><td>ISSUED FOR APPROVAL</td></tr><tr><td>A</td><td>11/03/16</td><td>FIRST ISSUE - DRAFT</td></tr><tr><td>No</td><td>DATE</td><td>AMENDMENT</td></tr></table>			E	23/03/16	REISSUED FOR APPROVAL	D	18/03/16	REISSUED FOR APPROVAL	C	18/03/16	REISSUED FOR APPROVAL	B	17/03/16	ISSUED FOR APPROVAL	A	11/03/16	FIRST ISSUE - DRAFT	No	DATE	AMENDMENT	 Barker Ryan Stewart Sydney P: 02 9659 0005 Hunter P: 02 4966 8388 Central Coast P: 02 4325 5255 ABN: 26 134 067 842 barkerryanstewart.com.au mail@barkerryanstewart.com.au © BARKER RYAN STEWART PTY LTD			Client: BINGO GROUP	STORMWATER DESIGN SERVICES 20 HEARNE STREET, MORTDALE STORMWATER PLAN	Designed: GJ Drawn: CM Checked: GJ	Scales: Plan 1:250 Horiz. Vert. X-Sect.	Datum: A.H.D.	Plan No. SY16043C101 File Ref. SY16043C_E.dwg SHEET 1 OF 4 SHEETS	REV. E
E	23/03/16	REISSUED FOR APPROVAL																												
D	18/03/16	REISSUED FOR APPROVAL																												
C	18/03/16	REISSUED FOR APPROVAL																												
B	17/03/16	ISSUED FOR APPROVAL																												
A	11/03/16	FIRST ISSUE - DRAFT																												
No	DATE	AMENDMENT																												

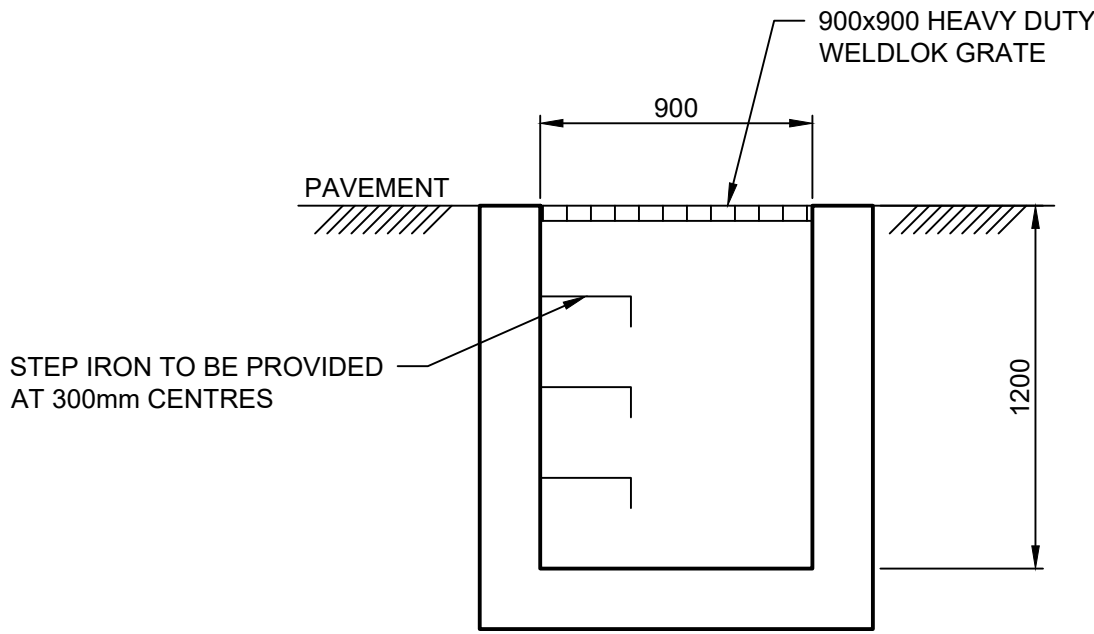
STORMWATER MANAGEMENT SYSTEM



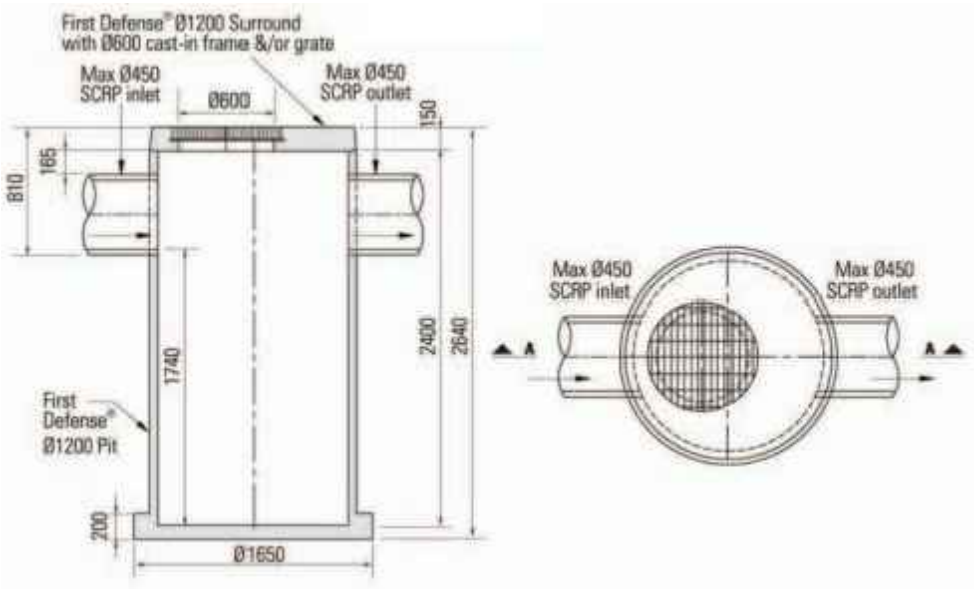
RAINWATER TANK SYSTEM
SCALE 1:50



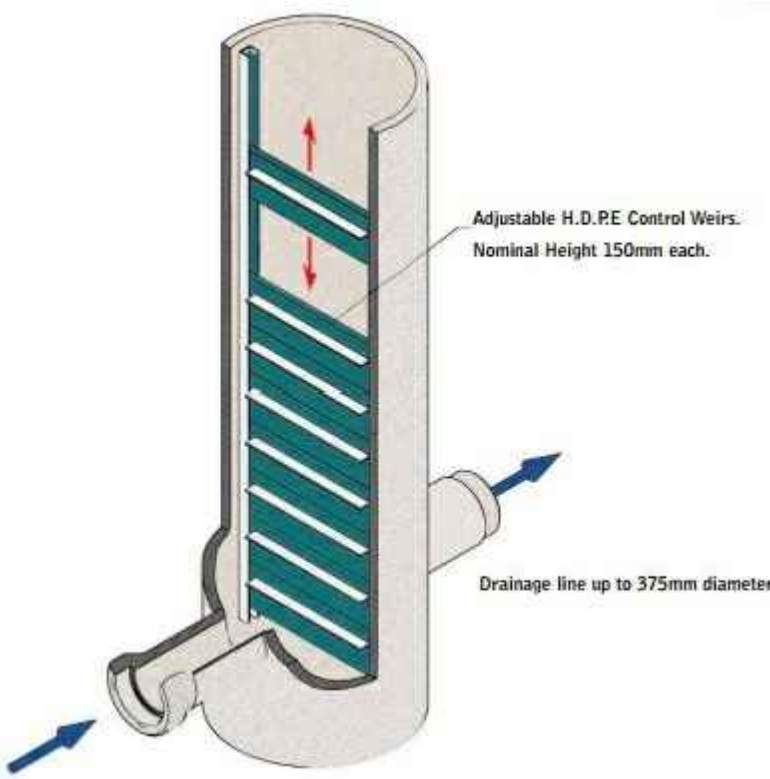
MATERIAL STORAGE LEACHATE COLLECTION
SUMP DETAIL UNDER BUILDING
SCALE 1:25



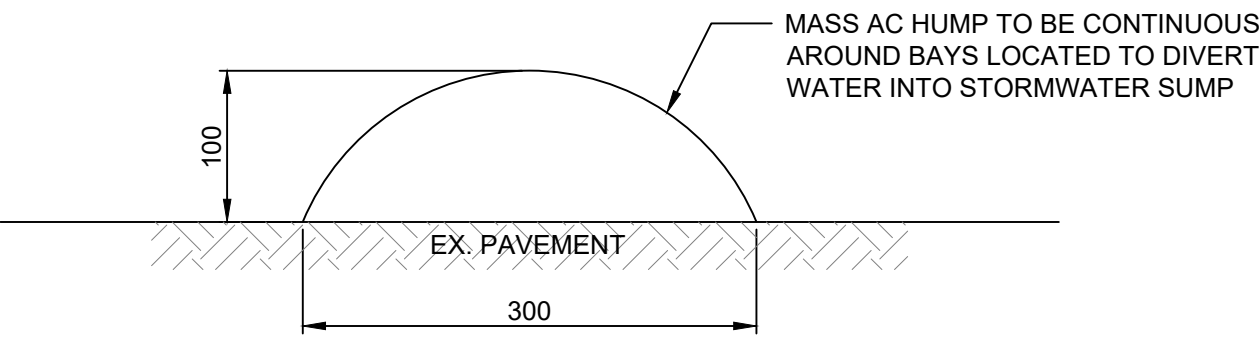
BUILDING LEACHATE COLLECTION
SUMP DETAIL WITHIN BUILDING
SCALE 1:25



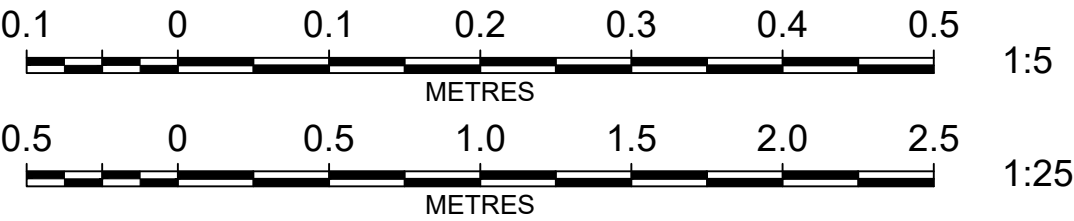
ROCLA FIRST
DEFENCE DETAIL
NOT TO SCALE



ROCLA WATER LEVEL
CONTROLLER DETAIL
NOT TO SCALE



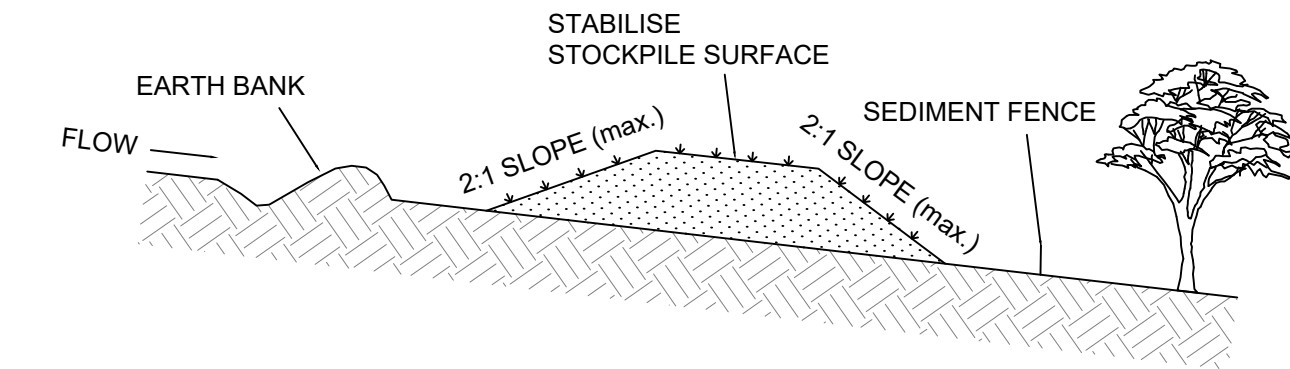
TYPICAL BUND DETAIL
SCALE 1:5



E	23/03/16	REISSUED FOR APPROVAL	 Sydney P: 02 9659 0005 Central Coast P: 02 4325 5255 Hunter P: 02 4966 8388 ABN: 26 134 067 842 barkerryanstewart.com.au mail@barkerryanstewart.com.au © BARKER RYAN STEWART PTY LTD	Client: BINGO GROUP	STORMWATER DESIGN SERVICES 20 HEARNE STREET, MORTDALE DETAIL SHEET	Designed: GJ Drawn: CM Checked: GJ Scales: Plan Horiz. Vert. X-Sect. Datum: A.H.D.	Plan No. SY16043C102 File Ref. SY16043C_E.dwg SHEET 2 OF 4 SHEETS REV. E
D	18/03/16	REISSUED FOR APPROVAL					
C	18/03/16	REISSUED FOR APPROVAL					
B	17/03/16	ISSUED FOR APPROVAL					
A	11/03/16	FIRST ISSUE - DRAFT					
No	DATE	AMENDMENT					



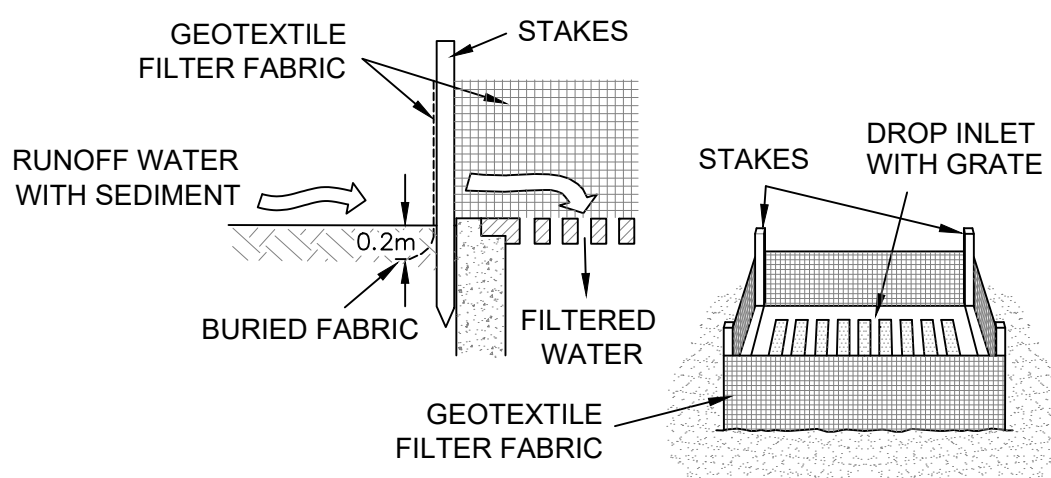
E	23/03/16	REISSUED FOR APPROVAL	 BarkerRyanStewart Sydney Central Coast P: 02 9659 0005 P: 02 4325 5255 Hunter P: 02 4966 8388 ABN: 26 134 067 842 barkerryanstewart.com.au mail@barkerryanstewart.com.au © BARKER RYAN STEWART PTY LTD	Client: BINGO GROUP	STORMWATER DESIGN SERVICES 20 HEARNE STREET, MORTDALE	Designed: GJ Drawn: CM Checked: GJ	Scales: Plan 1:250 Horiz. Vert. X-Sect.	Plan No. SY16043C103 File Ref. SY16043C_E.dwg SHEET 3 OF 4 SHEETS	REV. E
D	18/03/16	REISSUED FOR APPROVAL							
C	18/03/16	REISSUED FOR APPROVAL							
B	17/03/16	ISSUED FOR APPROVAL							
A	11/03/16	FIRST ISSUE - DRAFT							
No	DATE	AMENDMENT							
			EROSION & SEDIMENT CONTROL PLAN						



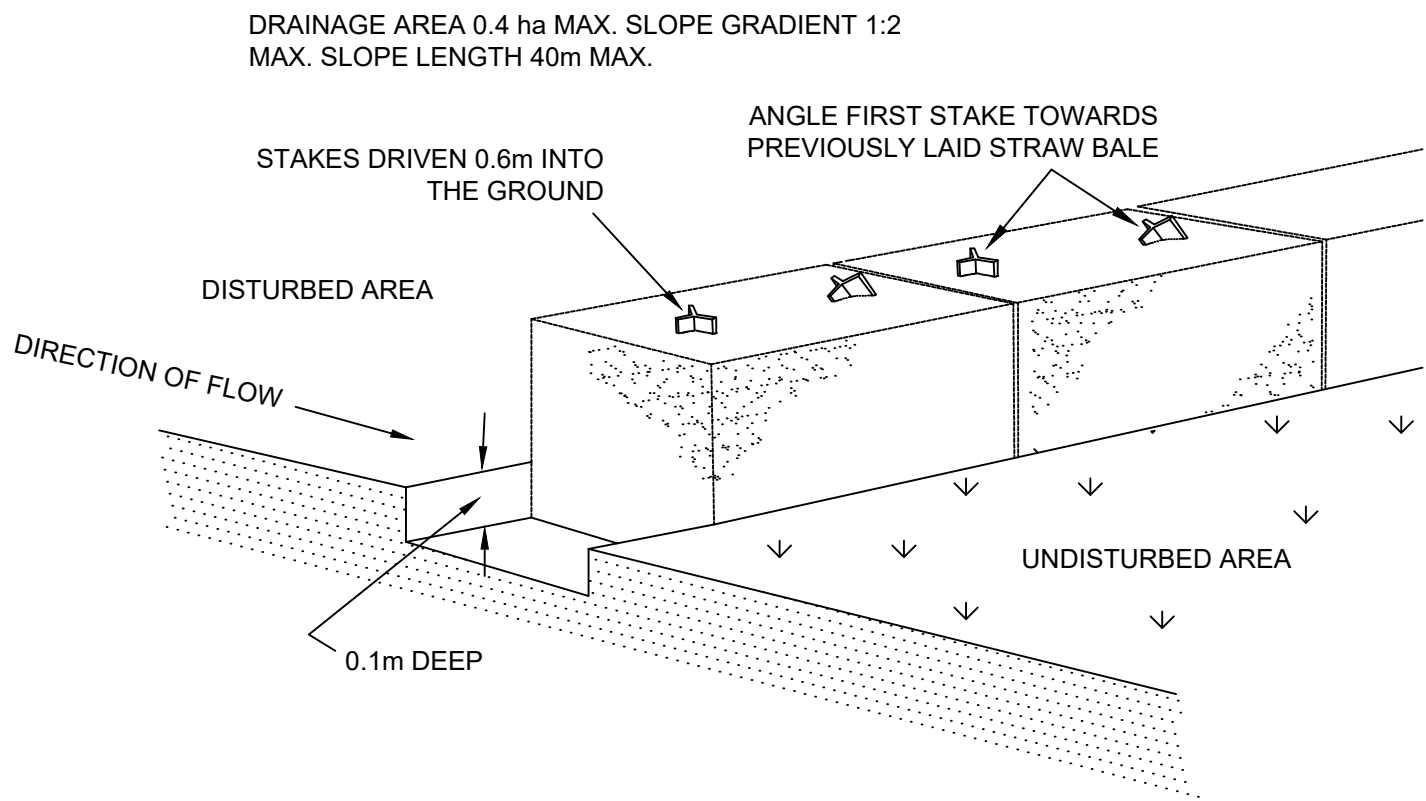
CONSTRUCTION NOTES

- 1. WHERE POSSIBLE LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS, HAZARD AREAS AND MIN. 1.5m AWAY FROM EMBANKMENTS.
- 2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT ELONGATED MOUND.
- 3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
- 4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
- 5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

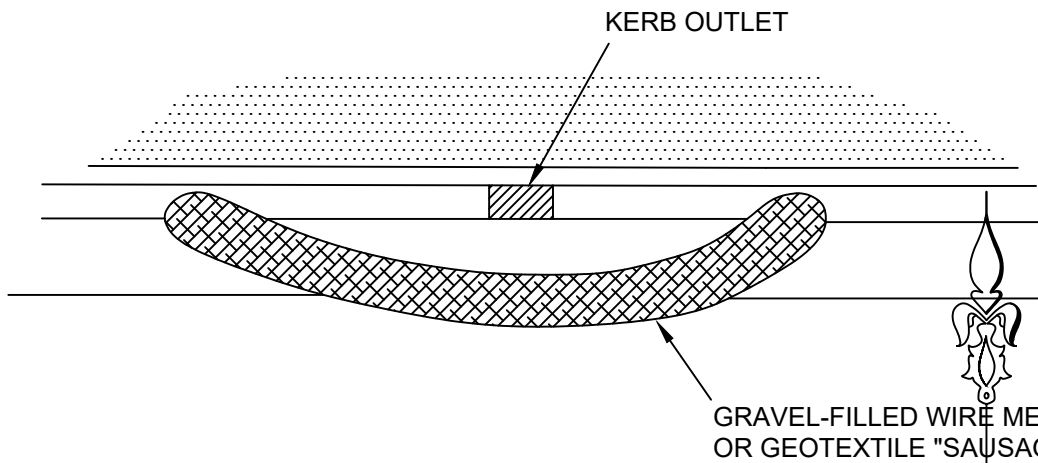
TOPSOIL STOCKPILE



SURFACE INLET PIT SEDIMENT TRAP



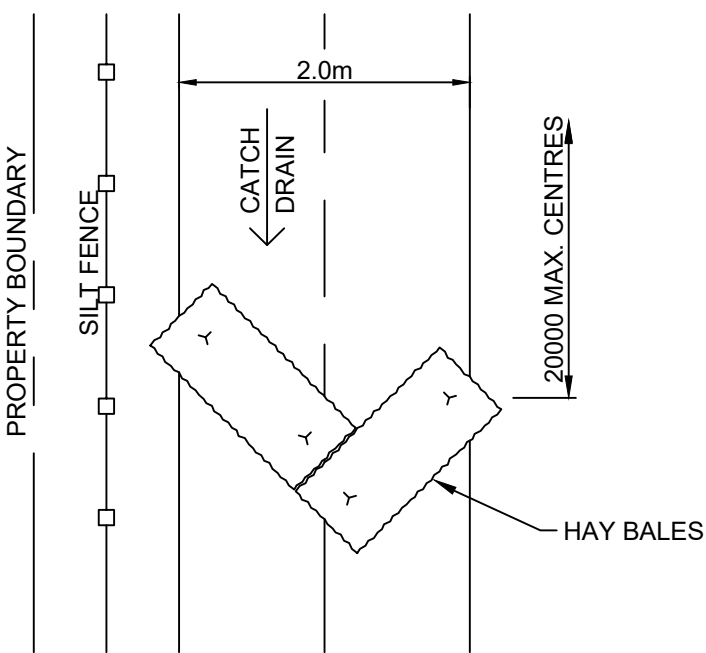
STRAW BALE SEDIMENT FILTER



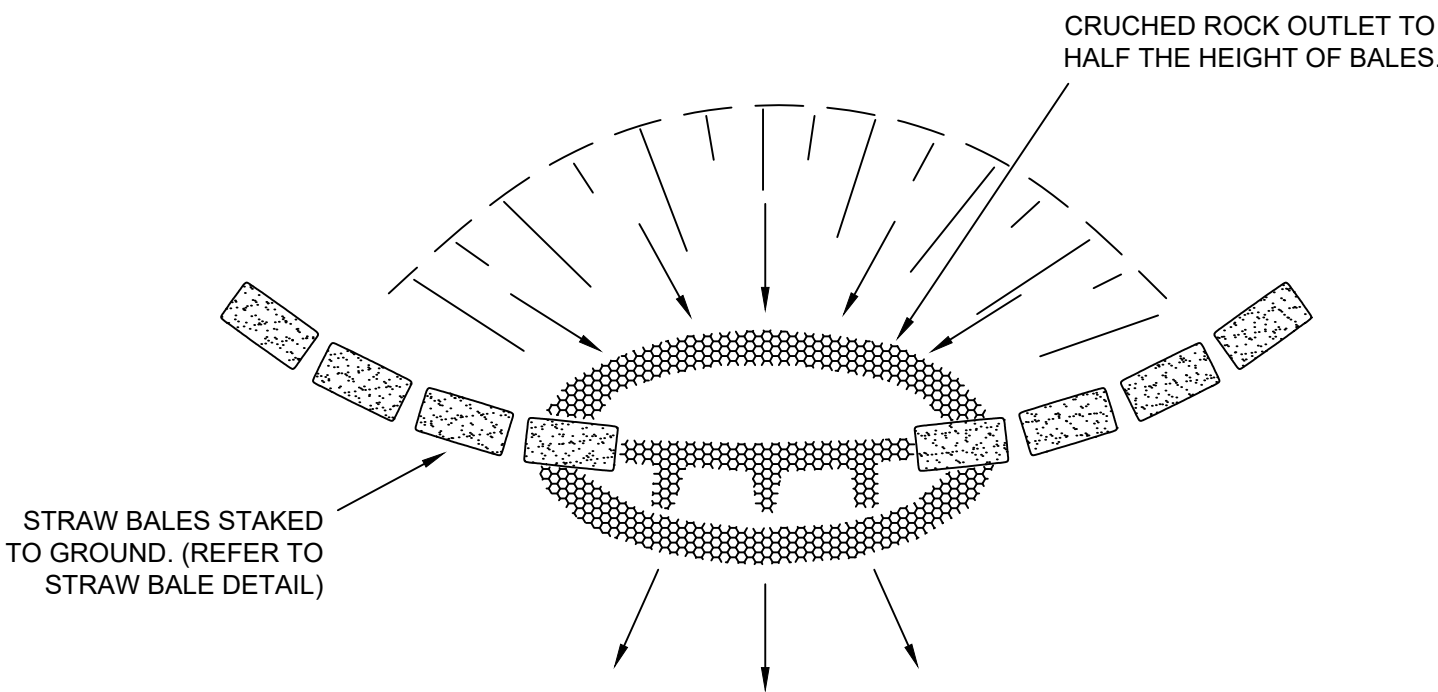
CONSTRUCTION NOTES

- 1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH AND FILL IT WITH 25mm TO 50mm GRAVEL.
- 2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
- 3. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER.
- 4. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

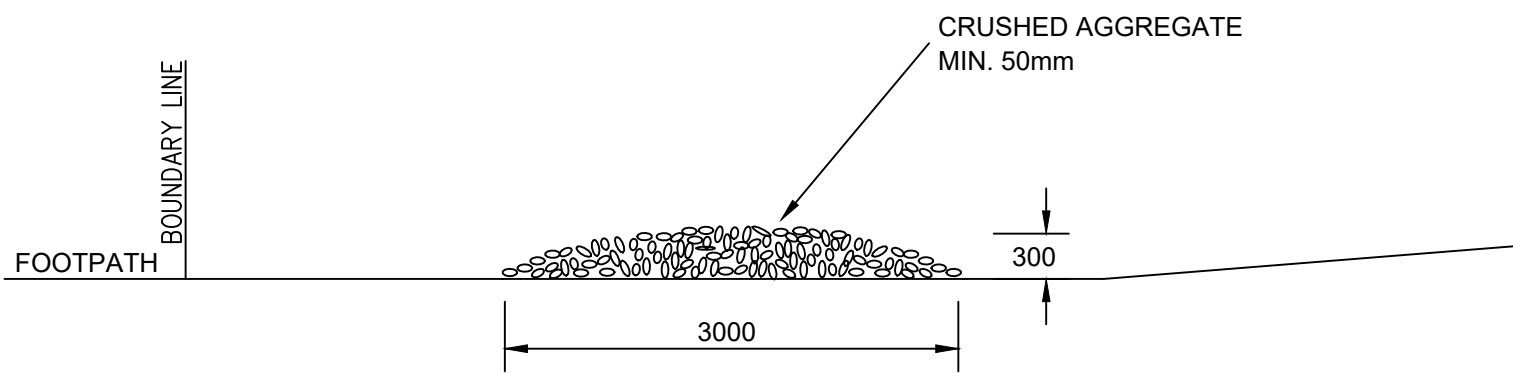
MESH & GRAVEL FILTER "SAUSAGE" BARRIER



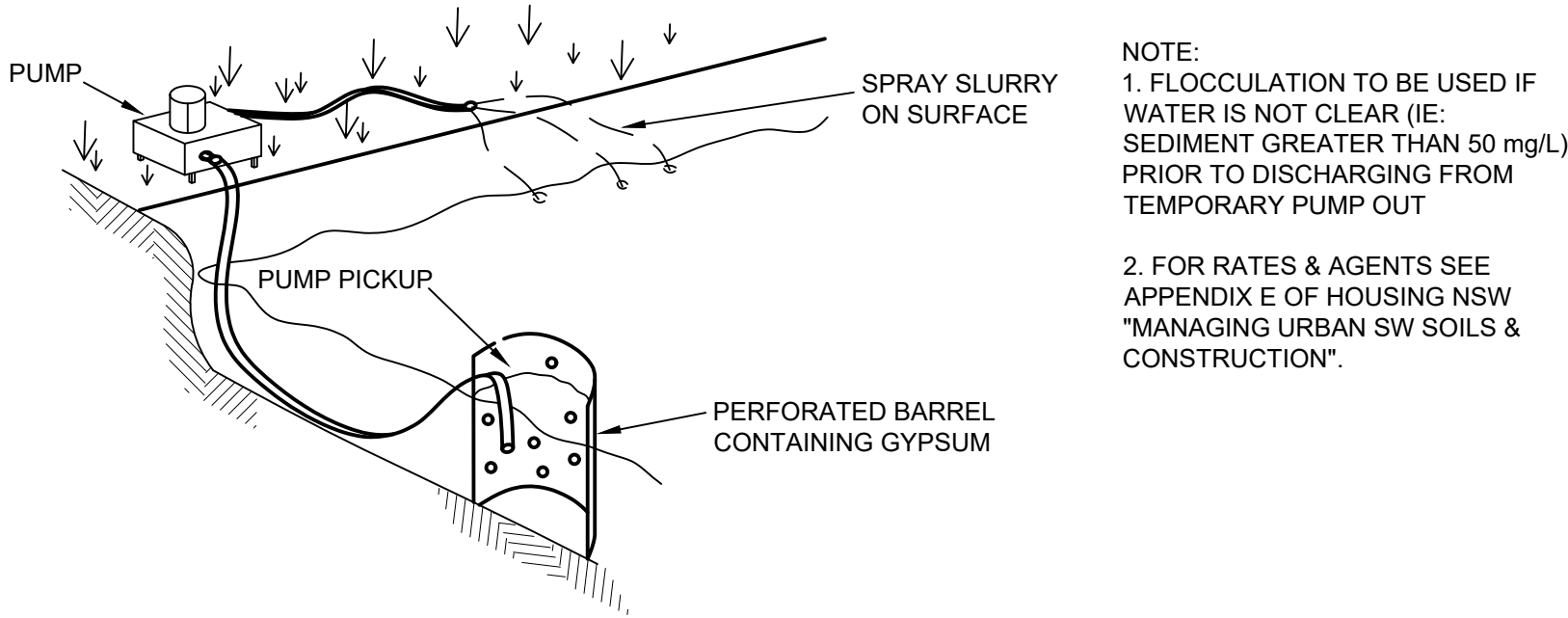
CATCH DRAIN DETAIL



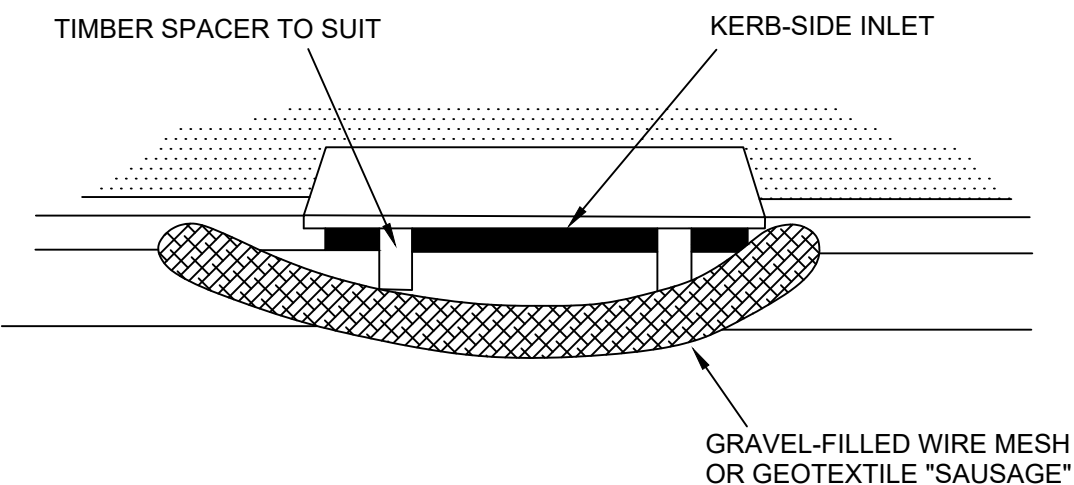
STRAW BALE & CRUSHED ROCK SEDIMENT FILTER



VEHICLE DUST SHAKE DOWN DETAIL



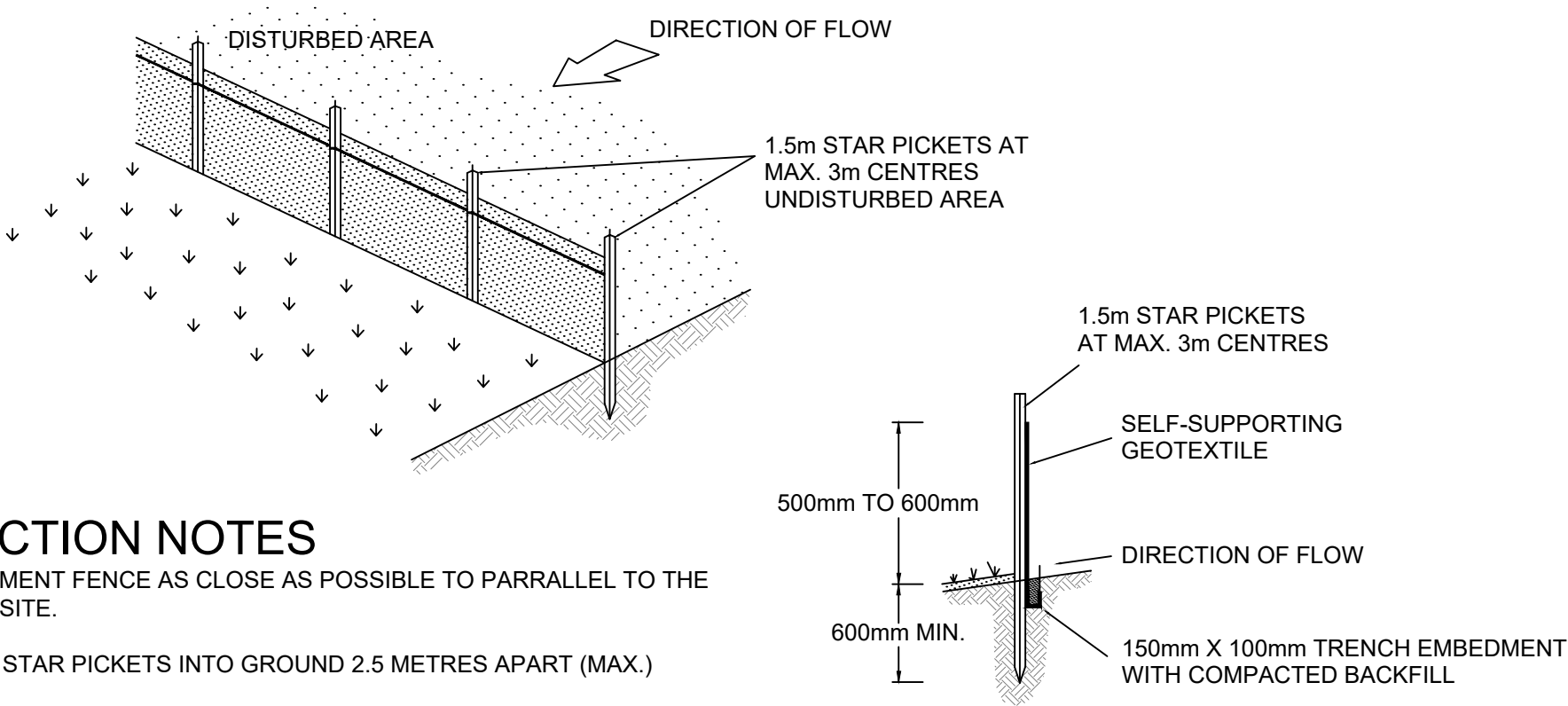
FLOCCULATION DETAIL



CONSTRUCTION NOTES

- 1. INSTALL FILTERS TO KERB INLET ONLY AT SAG POINTS.
- 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- 3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
- 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET MAINTAIN THE OPENING WITH SPACER BLOCKS.
- 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER.
- 6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL INLET "SAUSAGE" FILTER

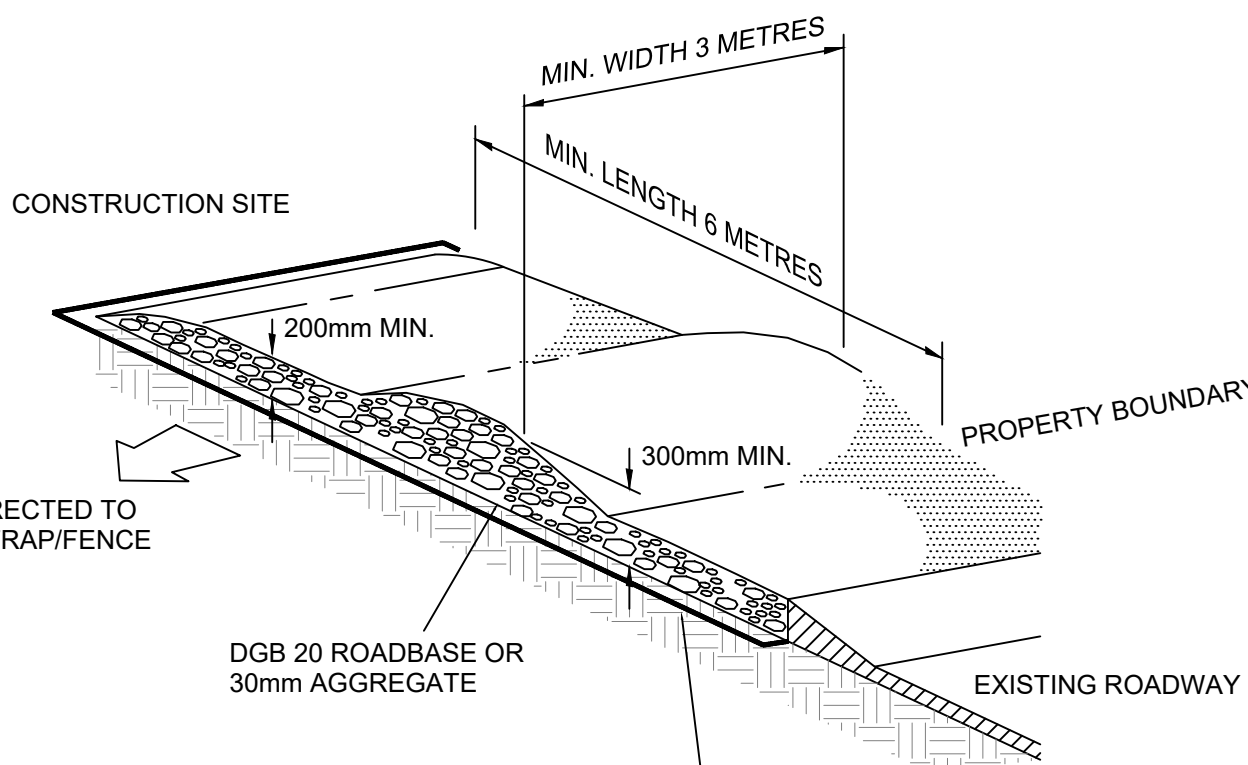


CONSTRUCTION NOTES

- 1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARRALLEL TO THE CONTOURS OF THE SITE.
- 2. DRIVE 1.5m LONG STAR PICKETS INTO GROUND 2.5 METRES APART (MAX.)
- 3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- 4. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
- 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
- 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE

SECTION DETAIL



CONSTRUCTION NOTES

- 1. STRIP TOPSOIL AND LEVEL SITE.
- 2. COMPACT SUBGRADE.
- 3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
- 4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROADBASE OR 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.
- 5. CONSTRUCT HUMPS IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP.

STABILISED SITE ACCESS



E	23/03/16	REISSUED FOR APPROVAL	 Sydney P: 02 9659 0005 Central Coast P: 02 4325 5255 Hunter P: 02 4966 8388 ABN: 26 134 067 842 barkerryanstewart.com.au mail@barkerryanstewart.com.au © BARKER RYAN STEWART PTY LTD	Client: BINGO GROUP	STORMWATER DESIGN SERVICES 20 HEARNE STREET, MORTDALE	Designed: GJ Drawn: CM Checked: GJ Scales: Plan Horiz. Vert. X-Sect. Datum: A.H.D.	Plan No. SY16043C104 File Ref. SY16043C_E.dwg SHEET 4 OF 4 SHEETS REV. E
D	18/03/16	REISSUED FOR APPROVAL					
C	18/03/16	REISSUED FOR APPROVAL					
B	17/03/16	ISSUED FOR APPROVAL					
A	11/03/16	FIRST ISSUE - DRAFT					
No	DATE	AMENDMENT					