

ANGLICARE - LIVERPOOL

DEVELOPMENT APPLICATION

9-15 NORTHUMBERLAND STREET, LIVERPOOL

CIVIL ENGINEERING PACKAGE



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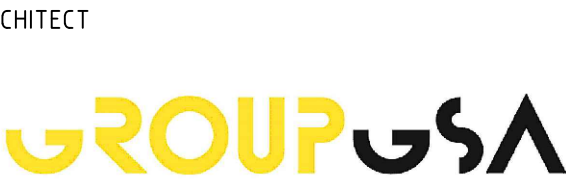
DRAWING SCHEDULE	
DRG No.	DRAWING TITLE
DAC01.01	COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN
DAC02.01	CONCEPT SEDIMENT AND EROSION CONTROL PLAN
DAC02.02	SEDIMENT AND EROSION CONTROL DETAILS
DAC02.50	CONCEPT CUT AND FILL PLAN
DAC03.01	CONCEPT STORMWATER MANAGEMENT PLAN
DAC04.01	DETAILS - SHEET 1
DAC04.02	DETAILS - SHEET 2
DAC04.03	DETAILS - SHEET 3
DAC06.01	CATCHMENT PLAN

DRAWN: J.TAI
DESIGNED: A.LIU
JOB MANAGER: J.DOMINGO
VERIFIER: J.TOTH

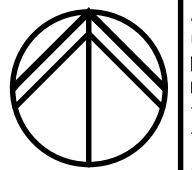
REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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2	RE-ISSUED FOR DEVELOPMENT APPLICATION	UM		JD	01.04.19



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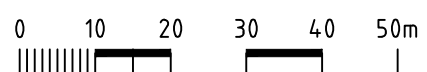


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PROJECT

ANGLICARE
LIVERPOOL

DRAWING TITLE

CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION

COVER SHEET, DRAWING
SCHEDULE AND LOCALITY PLAN

JOB NUMBER

171349-LP

DRAWING NUMBER

DAC01.01

REVISION

3

DRAWING SHEET SIZE = A1

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Date : 15.02.2019 11:24 AM

DESIGNED: A. LIU

DRAWN: J. TAI

JOB MANAGER: J. DOMINGO

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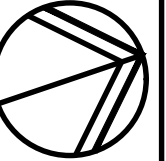
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PROJECT

ANGLICARE LIVERPOOL

DRAWING TITLE

CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION

CONCEPT SEDIMENT AND EROSION CONTROL PLAN

JOB NUMBER

171349-LP

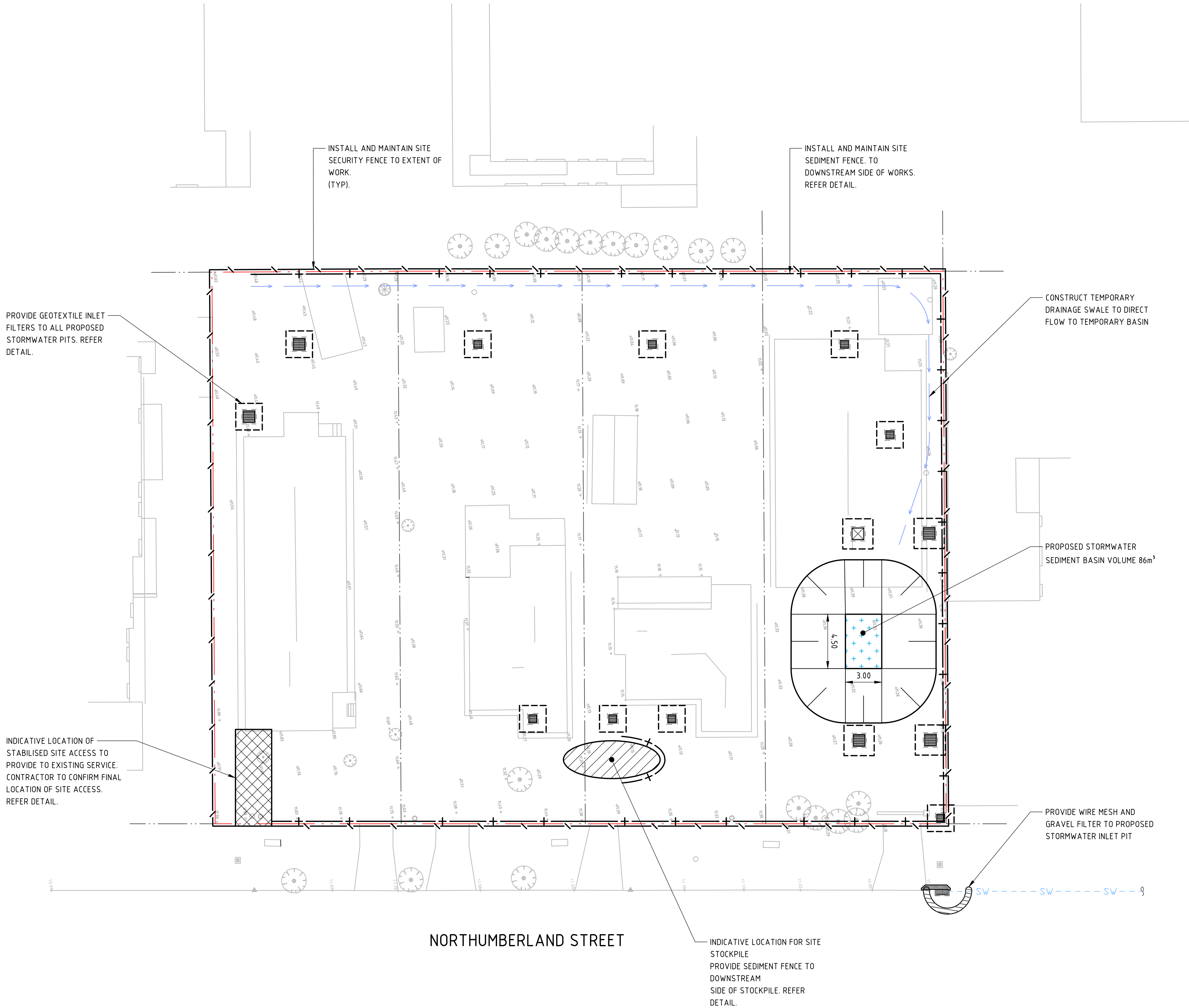
DRAWING NUMBER

DAC02.01

REVISION

2

DRAWING SHEET SIZE = A1



LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- SEDIMENT FENCE
- SECURITY FENCE
- WIRE MESH AND GRAVEL SEDIMENT FILTER
- DROP INLET SEDIMENT TRAP
- DIVERSION MOUND
- STABILISED SITE ACCESS
- STOCKPILE
- SEDIMENT BASIN

SEDIMENT BASIN CALCULATIONS:

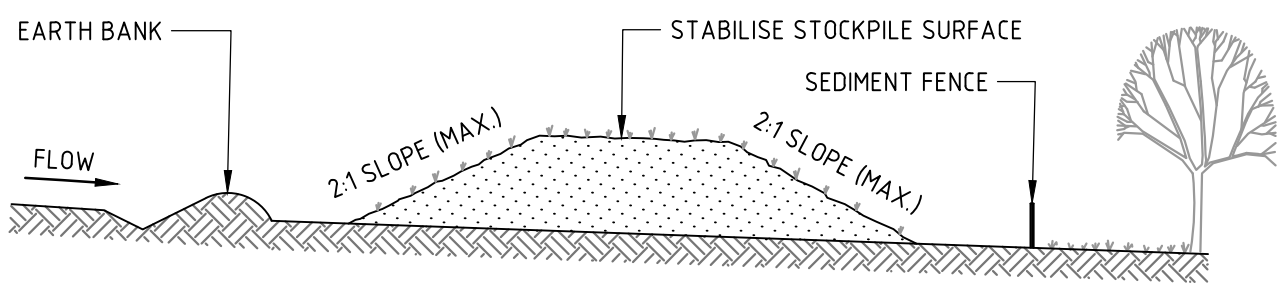
SOIL TYPE D

$V_{sz} = 10 \times C_v \times A \times R$
 $= 10 \times 0.5 \times 0.275 \times 32.2$
 $= 45m^3$

$V_{ss} = V_{sz} \times 0.5$
 $= 22m^3$

$V_{REQUIRED} = V_{SB} = 67m^3$
 $V_{PROVIDED} = 70m^3$

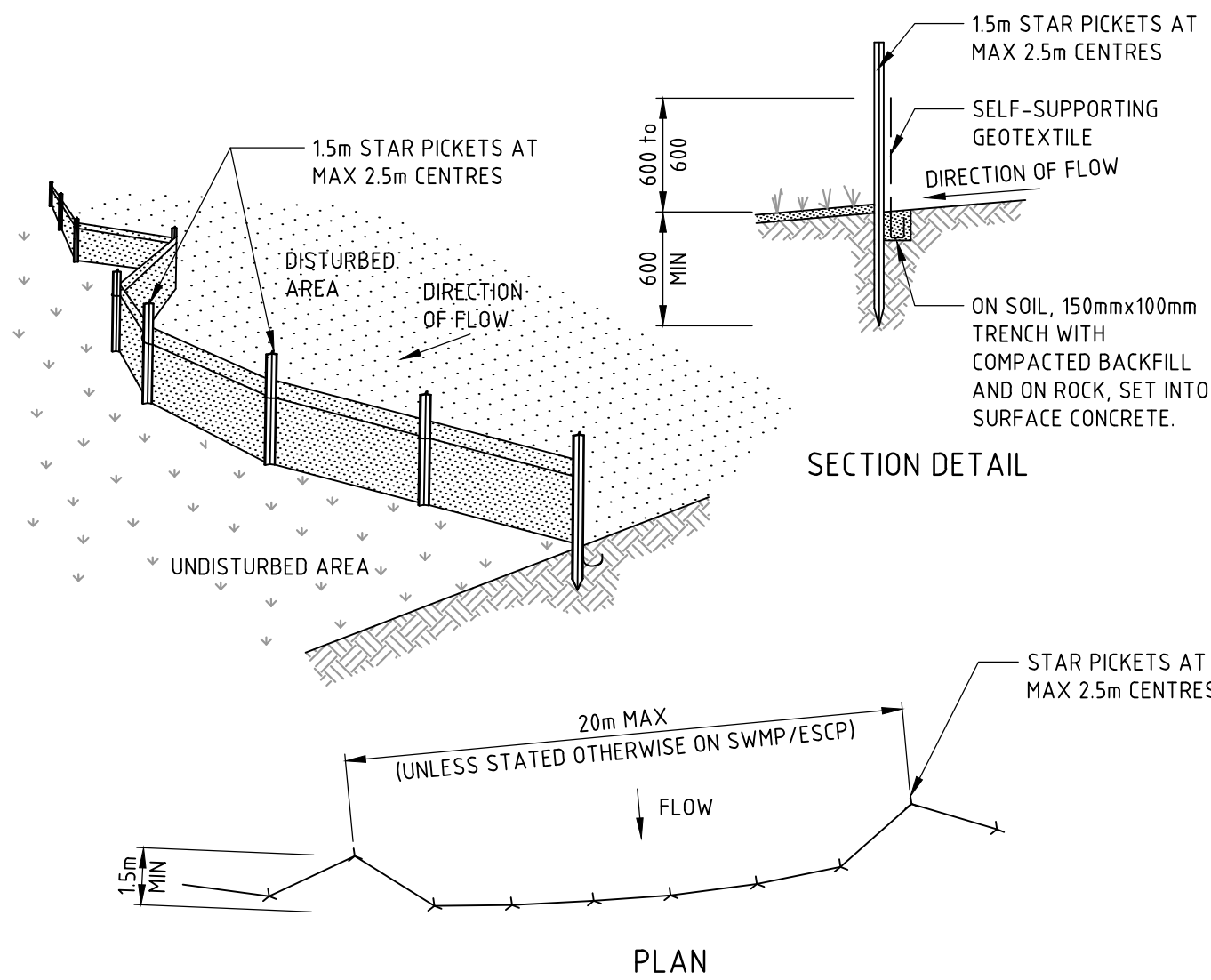
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CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

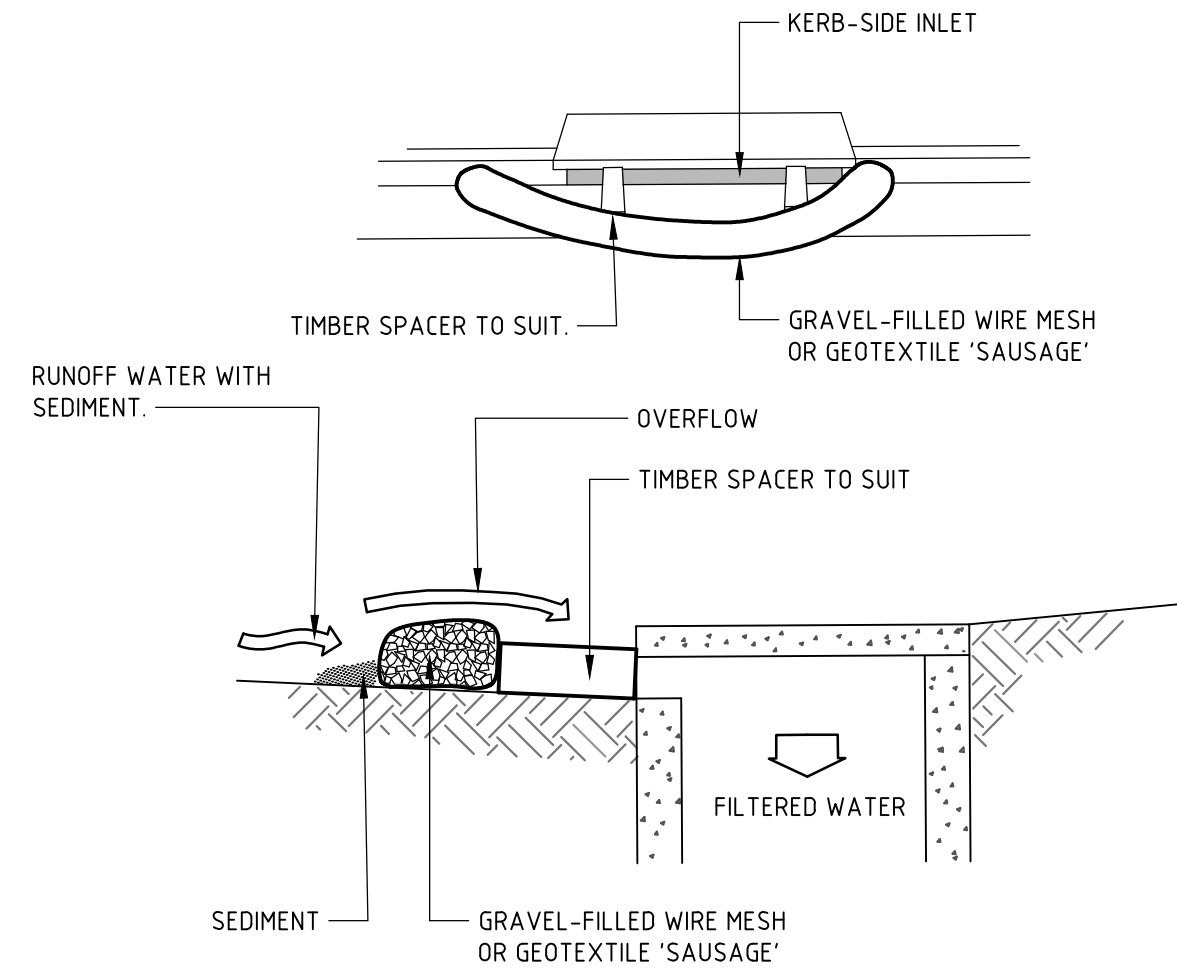
STOCKPILES (SD 4-1)



CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. 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 SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
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.

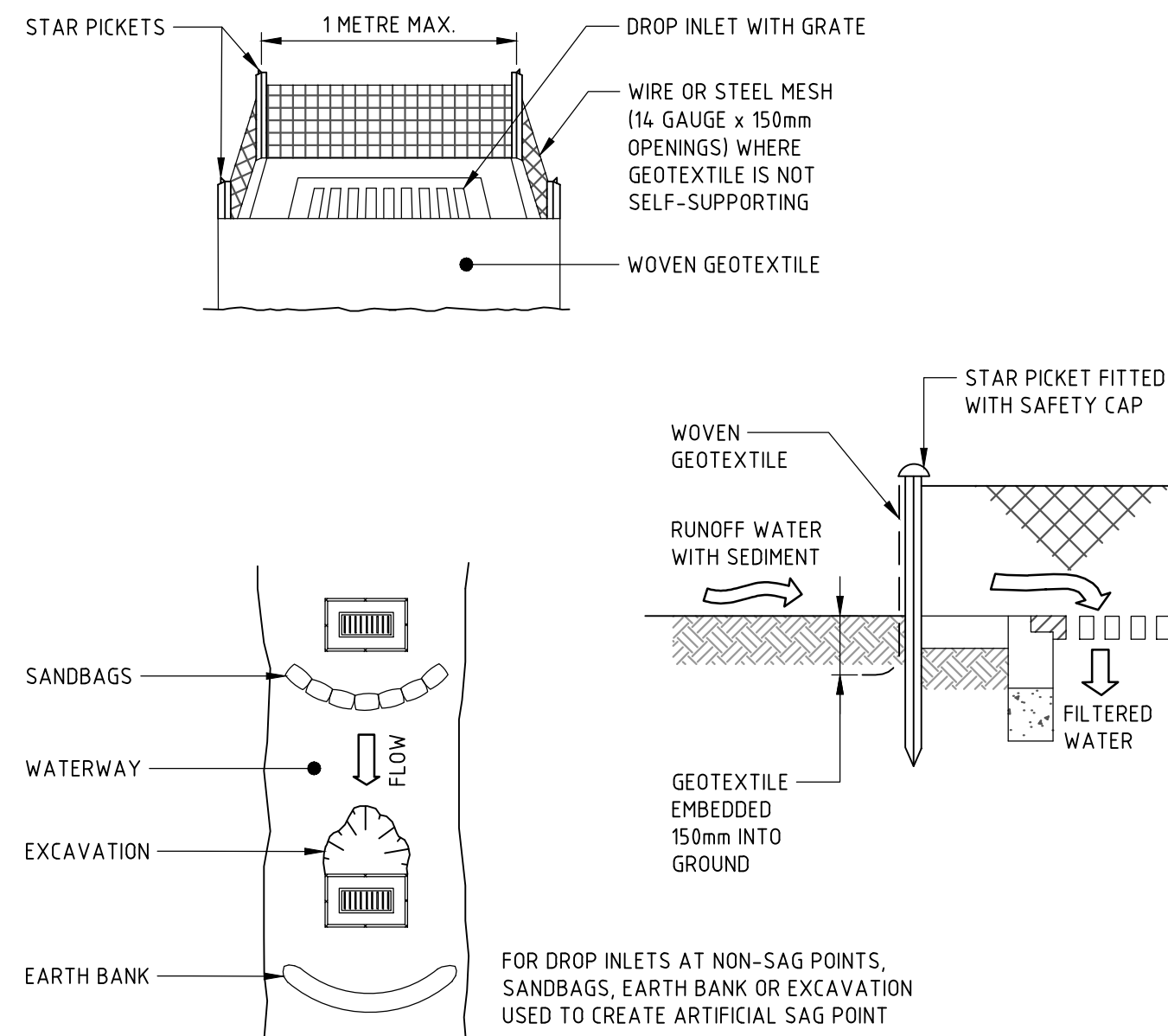
SEDIMENT FENCE (SD 6-8)



CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLETS 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 THE 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.

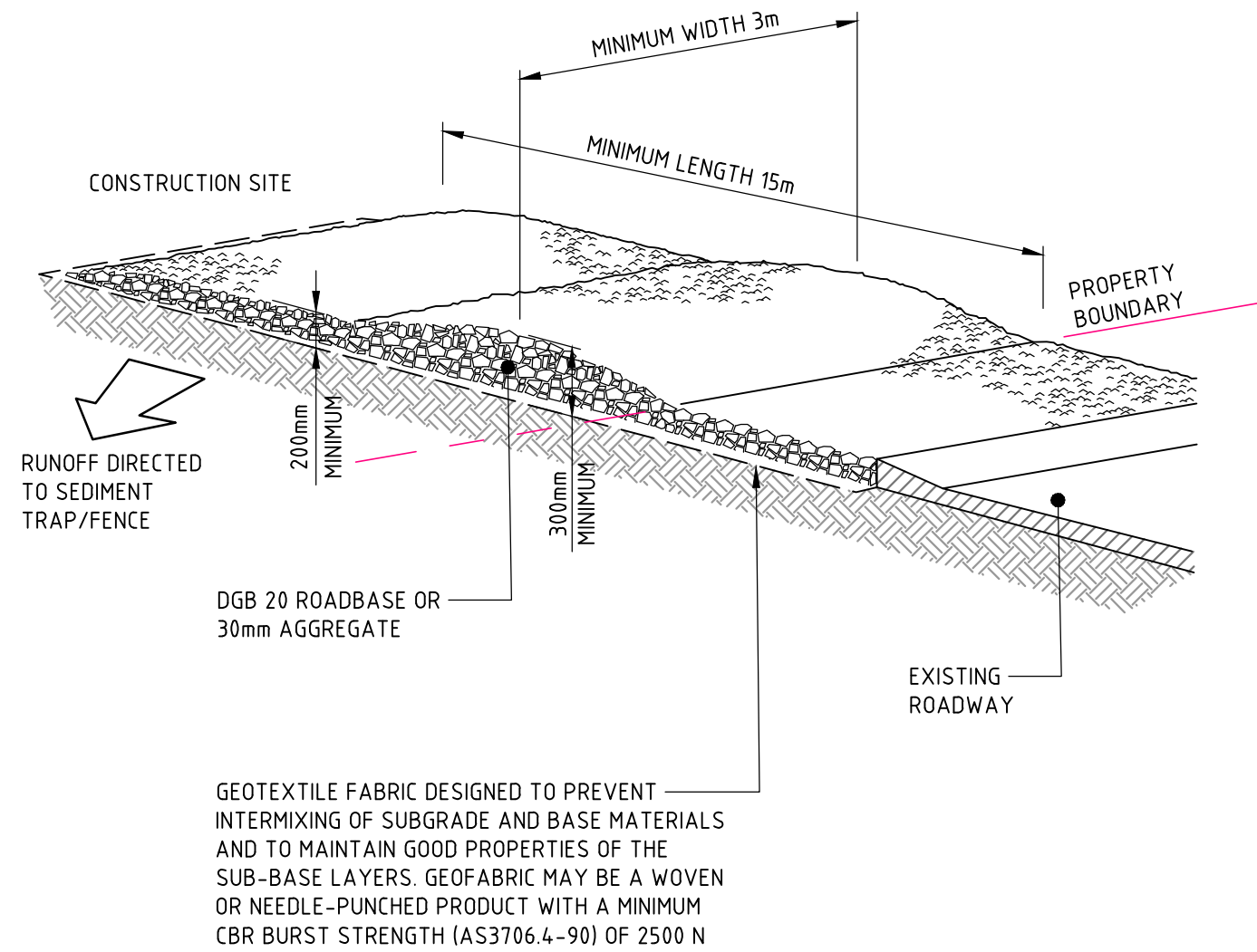
MESH AND GRAVEL INLET FILTER (SD 6-11)



CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOTEXTILE. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER (SD 6-12)



CONSTRUCTION NOTES

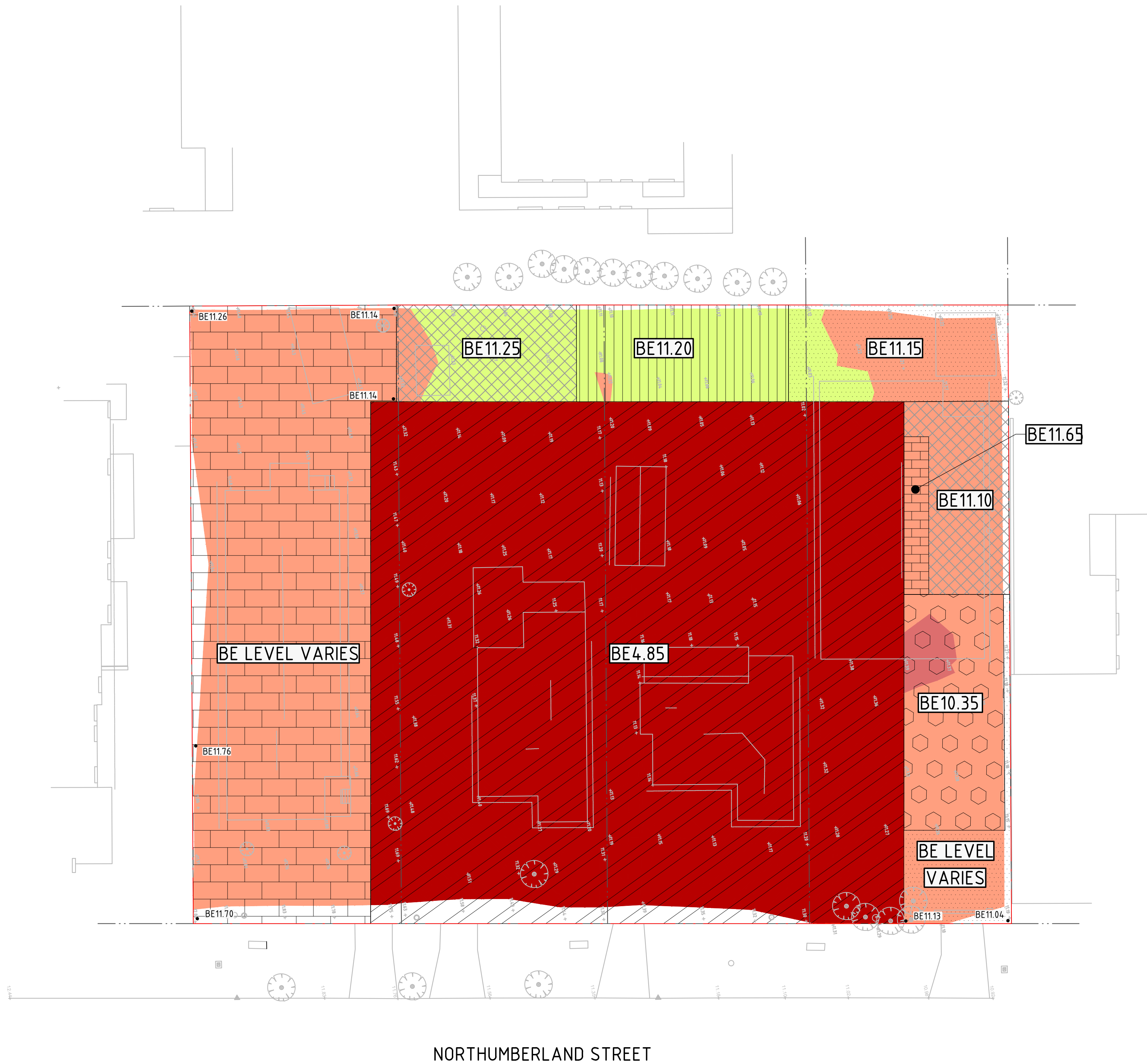
1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS (SD 6-14)

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2	RE-ISSUED FOR DEVELOPMENT APPLICATION	UM		JD	01.04.19					SEDIMENT AND EROSION CONTROL DETAILS	DRAWING NUMBER
											REVISION
											DAC02.02
											2
											DRAWING SHEET SIZE = A1

DRAWN: J.TAI
DESIGNED: A.LIU
JOB MANAGER: J.DOMINGO
VERIFIER: J.TOTH



LEGEND	
	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE
DEPTH OF CUT	
	- 7.0m TO - 6.0m
	- 6.0m TO - 5.0m
	- 5.0m TO - 4.0m
	- 4.0m TO - 3.0m
	- 3.0m TO - 2.0m
	- 2.0m TO - 1.0m
	- 1.0m TO - 0.0m
DEPTH OF FILL	
	0.0m TO 1.0m
	1.0m TO 2.0m
	2.0m TO 3.0m

GENERAL NOTES:	
1.	REFER SPECIFICATIONS NOTES FOR EARTHWORKS GENERAL REQUIREMENTS.
2.	ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3.	CAD FILES / DTM FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).
4.	NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.
5.	NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS, ie SERVICE TRENCHING, DETAILED EXCAVATION, FOOTINGS, RETAINING WALLS AND THE LIKE. THE CONTRACTOR SHALL USE FINAL SURFACE LEVELS AND TYPICAL PAVEMENT DETAILS FOR ACTUAL EARTHWORKS LEVELS.
7.	APPROXIMATE BULK EARTHWORK VALUES AS FOLLOWS:
7.1.	CUT 9,721 cu.m
7.2.	FILL 22 cu.m
7.3.	BALANCE 9,698 cu.m EXPORT
7.4.	SITE STRIPPING VOLUMES HAVE NOT BEEN INCLUDED IN ABOVE CALCULATIONS.
8.0	BULK EARTHWORKS ASSUMPTIONS:
	• NO ALLOWANCE FOR EARTHWORKS BULKING FACTORS.
	• NO ALLOWANCE FOR SPOIL GENERATED FROM UTILITY SERVICES AND STORMWATER DRAINAGE TRENCHING.
	• NO ALLOWANCE FOR SPOIL GENERATED FROM WATER QUALITY MEDIA.
	• 200mm SLAB THICKNESS FROM BUILDING.
	• 300mm PAVEMENT THICKNESS FROM CARPARK.
	• 150mm STRIPPING

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SCALE 1:200@ A1

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PROJECT

ANGLICARE LIVERPOOL

DRAWING TITLE

CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION

CONCEPT CUT AND FILL PLAN

JOB NUMBER

171349-LP

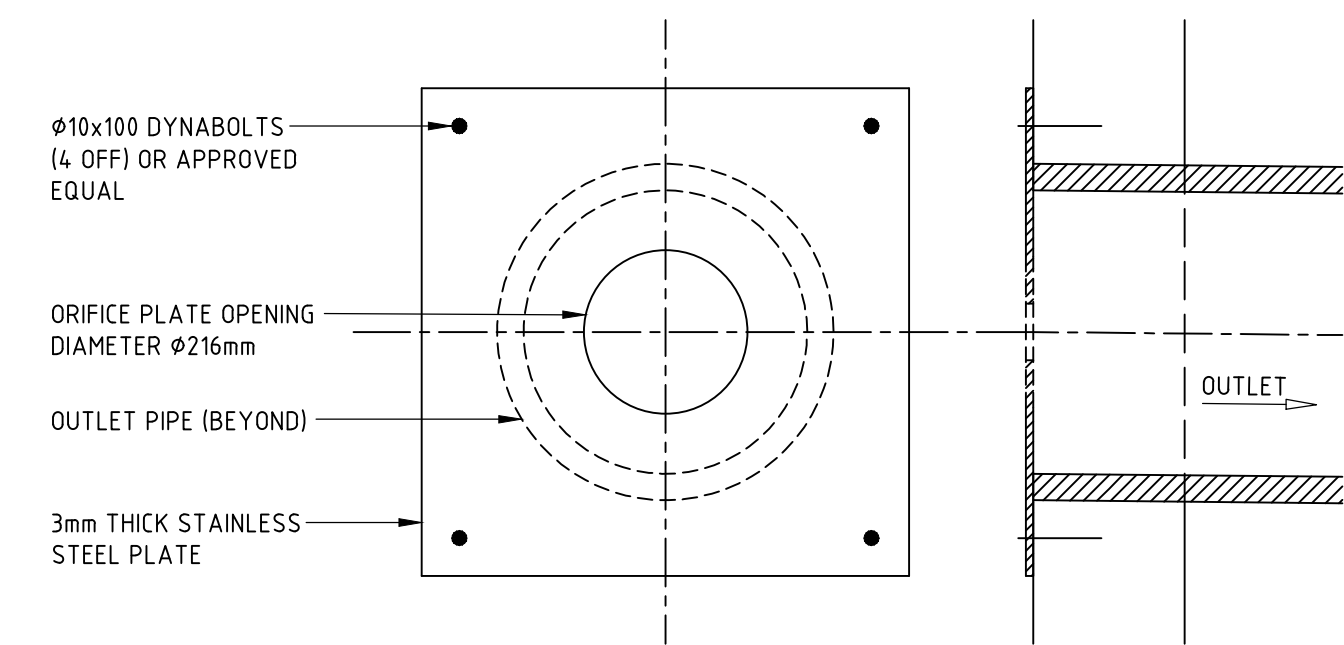
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DAC02.50

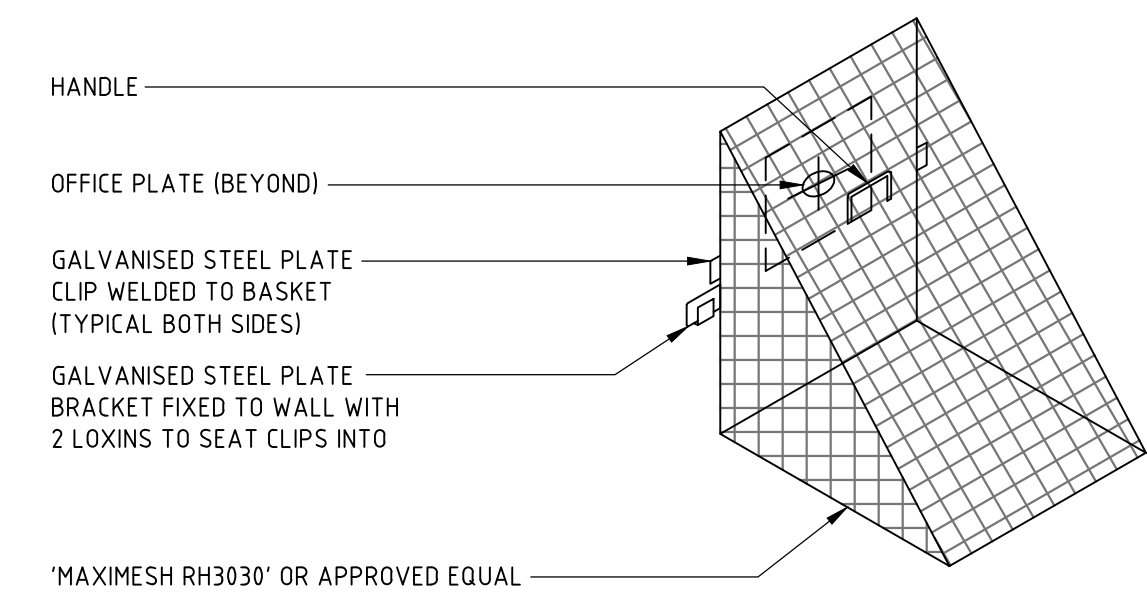
REVISION

2

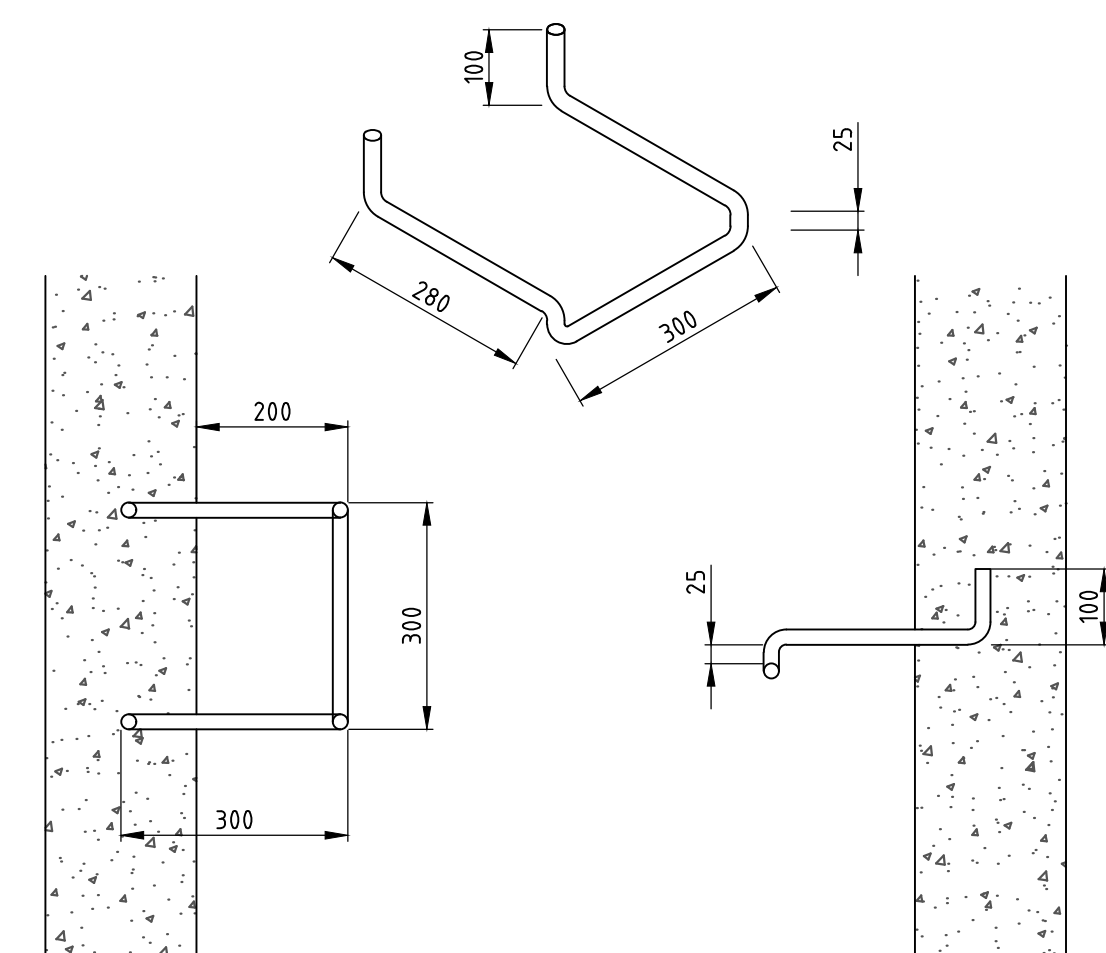
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ORIFICE PLATE DETAIL
ORIFICE PLATE - Ø216mm

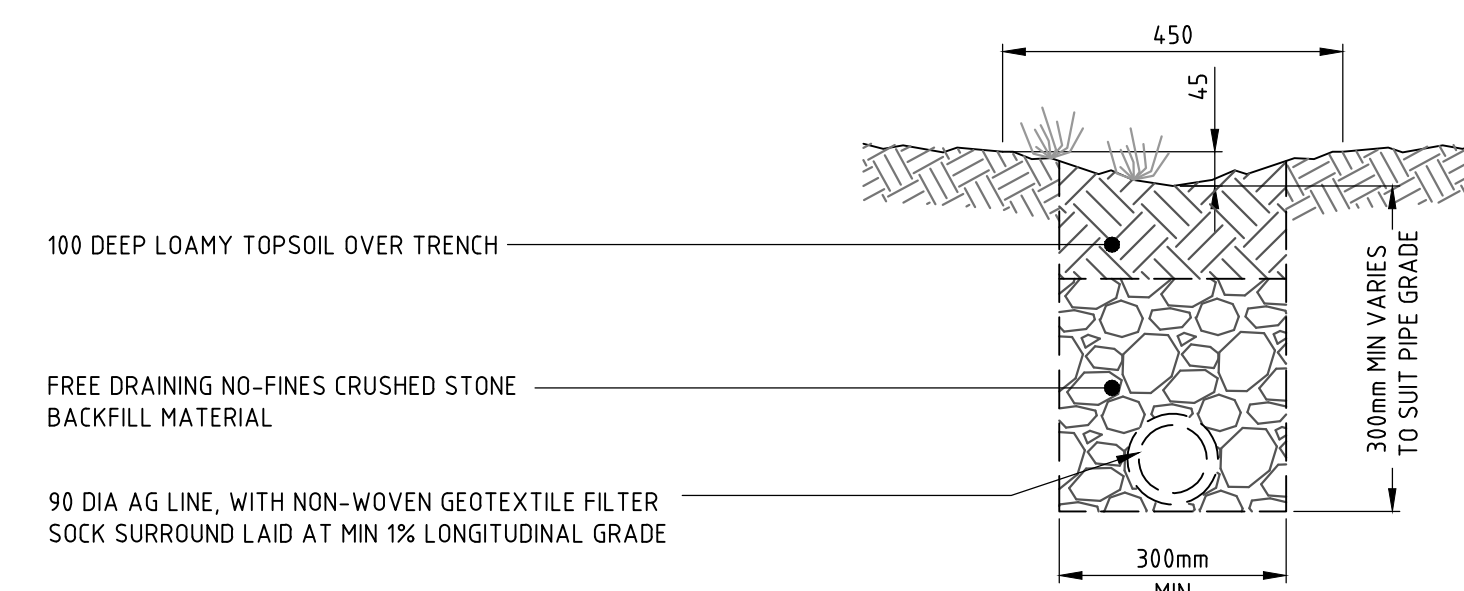


TRASH SCREEN DETAIL



STEP IRON DETAIL

STEP IRON OF 20mm GALVANISED STEEL MADE TO SHAPE AND DIMENSIONS AS SHOWN
PLACED AT 300 CENTRES AND STAGGERED HORIZONTALLY FOR ALL PITS DEEPER THAN
1.0m. THE USE OF PROPRIETARY STEP IRONS ARE ACCEPTABLE PROVIDED THE PRODUCT
IS IN ACCORDANCE WITH AUSTRALIAN STANDARDS



TYPICAL SWALE DETAIL (450 WIDE) WITH SUBSOIL DRAIN

NOTE: USED SEALED uPVC PIPE WHERE SUBSOIL DRAINAGE LINES CROSS BENEATH PAVEMENT AREAS.

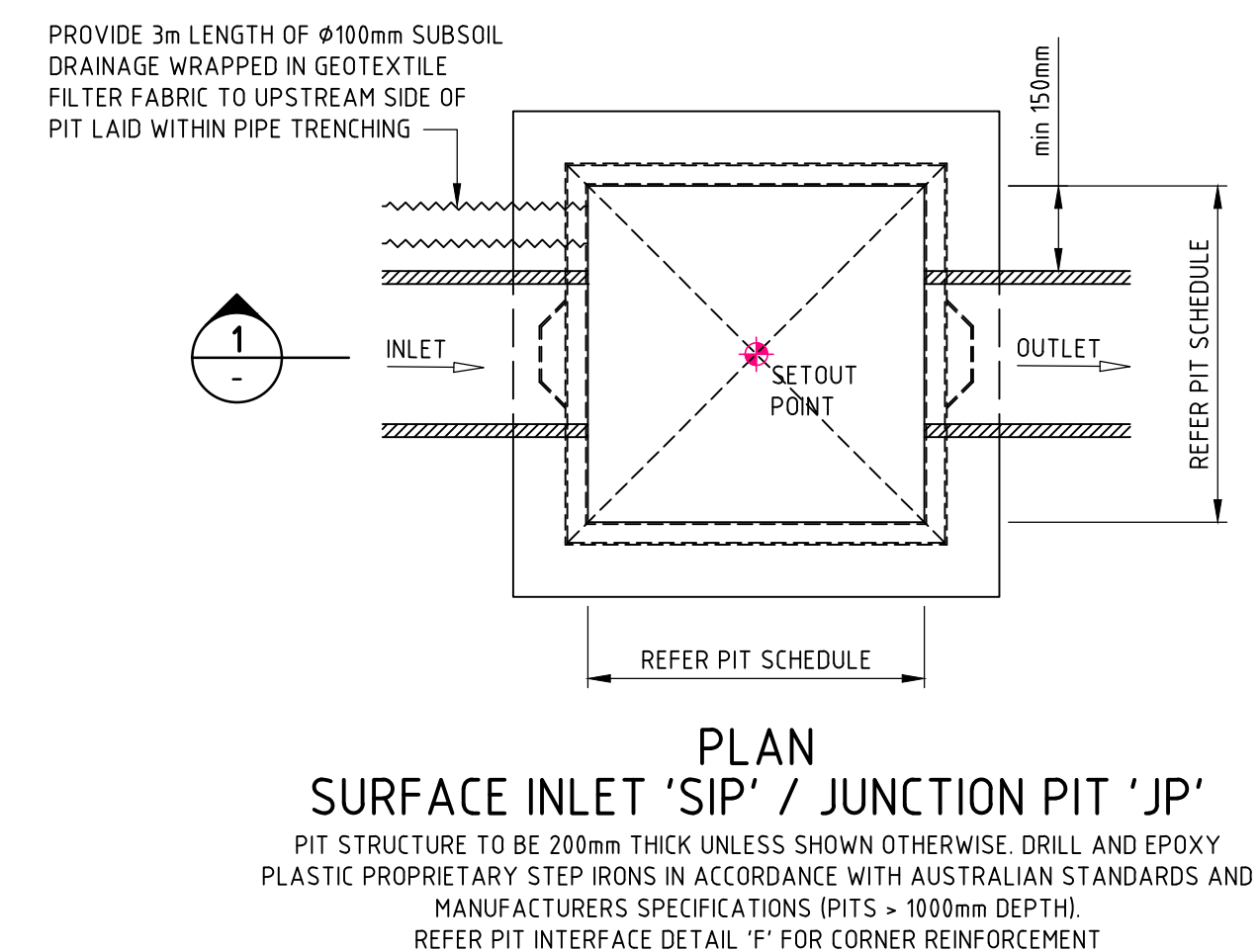
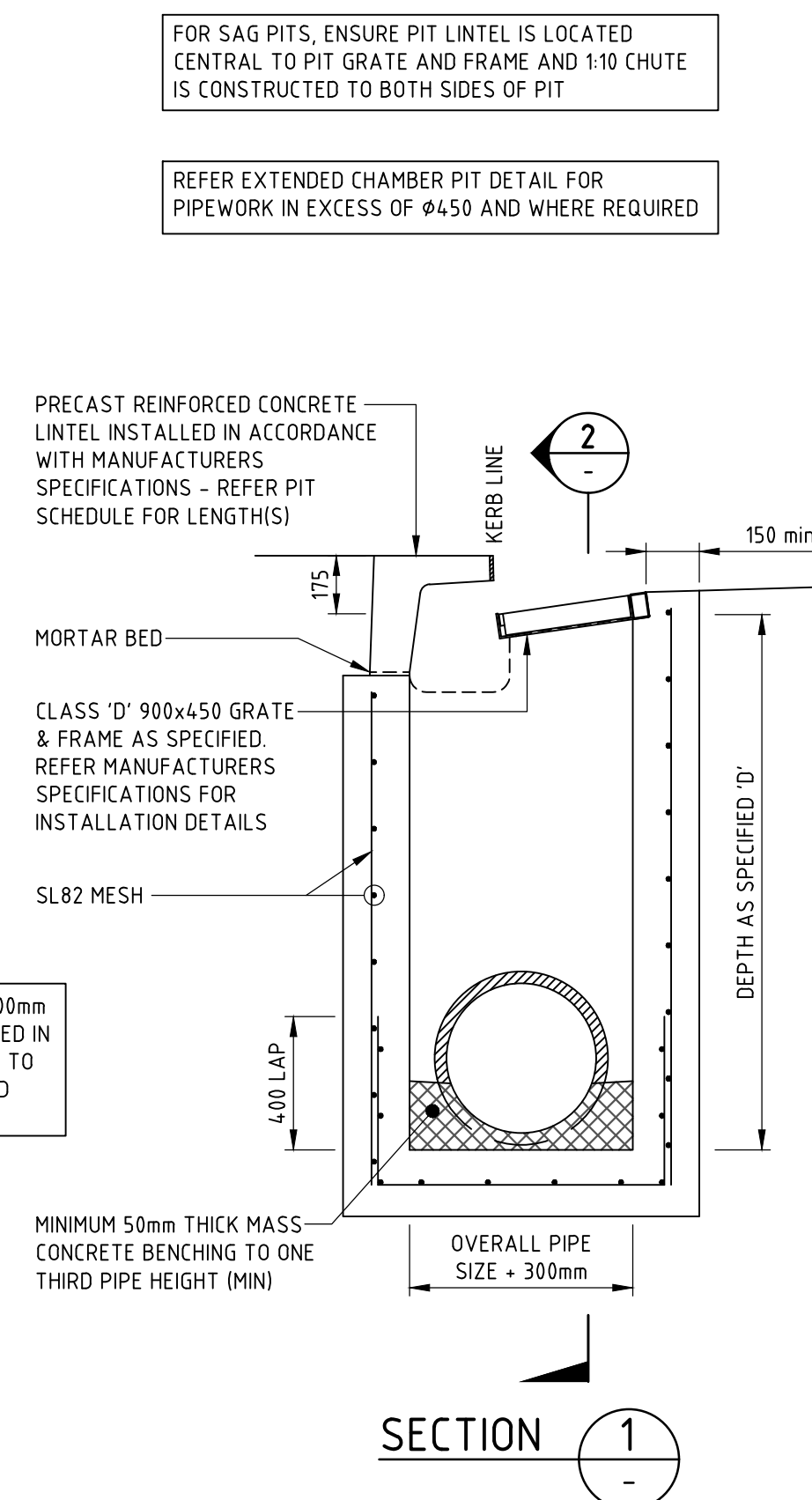
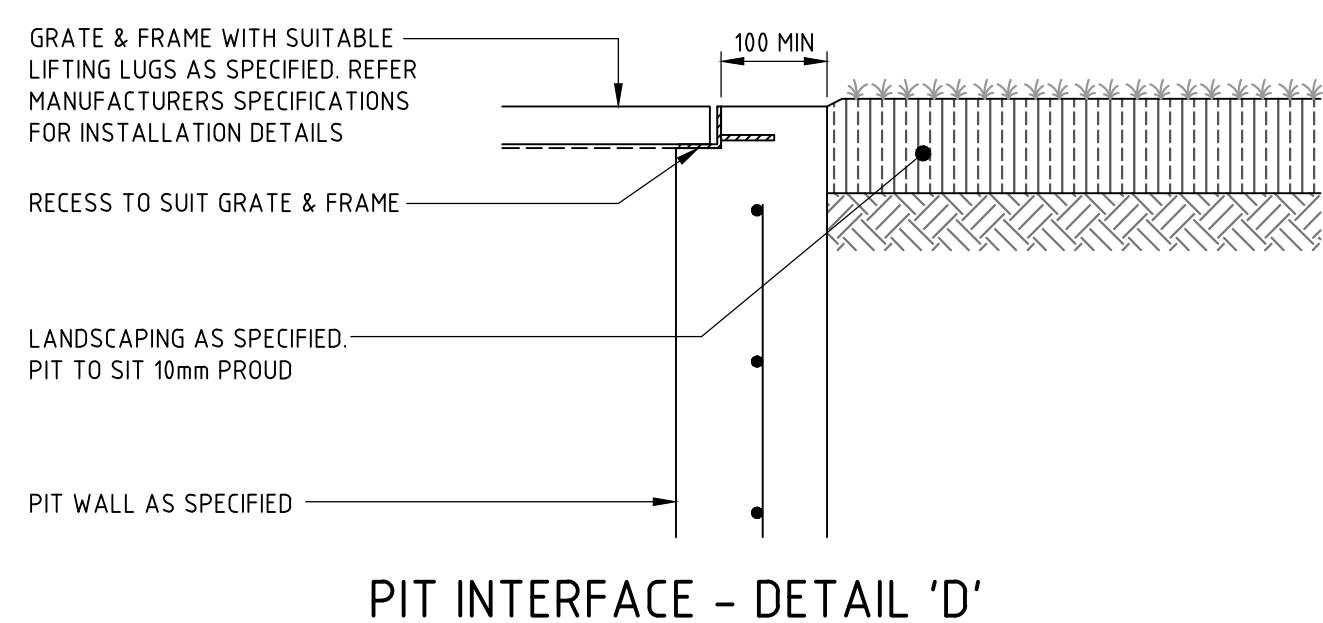
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3	RE-ISSUED FOR DEVELOPMENT APPLICATION	MM		JD	14.06.19					DAC04.01	3
									DETAILS - SHEET 1 - SHEET 1	DRAWING SHEET SIZE = A1	

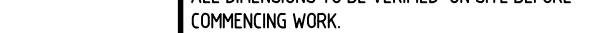
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Plotted By : MICHAEL MAI

Date : 15.02.2018 11:24 AM



PLAN
SURFACE INLET 'SIP' / JUNCTION PIT 'JP'
PIT STRUCTURE TO BE 200mm THICK UNLESS SHOWN OTHERWISE. DRILL AND EPOXY
PLASTIC PROPRIETARY STEP IRONS IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND
MANUFACTURERS SPECIFICATIONS (PITS > 1000mm DEPTH).
REFER PIT INTERFACE DETAIL 'F' FOR CORNER REINFORCEMENT

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PILOTED BY : MICHAEL MAI

MIY 47:11 01.07.2015 15:01

DRAWN: J.TAI
DESIGNED: A.LIU
JOB MANAGER: J.DOMINGO
VERIFIER: J.TOTH



LEGEND	
	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE
	728m ² RAINWATER TANK AREA CONTRIBUTING TO RWT
	673m ² IMPERVIOUS AREA
	522m ² ROAD AREA
	684m ² PERVIOUS AREA
	149m ² IMPERVIOUS BYPASS AREA

NORTHUMBERLAND STREET

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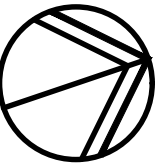
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ARCHITECT



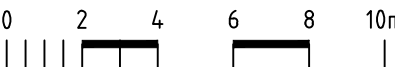
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CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION

CATCHMENT PLAN

JOB NUMBER

171349-LP

DRAWING NUMBER

DAC06.01

REVISION

2

DRAWING SHEET SIZE = A1

CIVIL TRANSMITTAL

JOB No.	JOB NAME	PAGES
181349-LP	ANGLICARE SAHF 2 - LIVERPOOL	1

DESCRIPTION	ISSUED FOR DEVELOPMENT APPLICATION
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DA PACKAGE	DATE	D	5	1	3	14				
		M	12	4	5	6				
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METHOD	C = Courier H = Hand E = Email F = Facsimile P = Post	E	E	E	E				

SENT BY	J. DOMINGO
QA FORM No.	

DESIGNED: A. LIU
DRAWN: J. TAI
JOB MANAGER: J. DOMINGO
VERIFIER: J. TOTH

DRAINAGE STRUCTURE SCHEDULE

PIT NUMBER	CHAMBER SIZE	STRUCTURE DESCRIPTION	GRATE & FRAME SIZE	ACCESS COVER & CLASS	GRATE RL
A1/1	900 x 900	NEW SURFACE INLET PIT	900 x 900	CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME	11.190
A1/2	600 x 600	NEW SURFACE INLET PIT	600 x 600	CLASS 'B' GALVANISED MILD STEEL GRATE HINGED TO FRAME	11.400
A1/3	600 x 600	NEW SURFACE INLET PIT	600 x 600	CLASS 'B' GALVANISED MILD STEEL GRATE HINGED TO FRAME	11.410
A1/4	600 x 600	NEW SURFACE INLET PIT	600 x 600	CLASS 'B' GALVANISED MILD STEEL GRATE HINGED TO FRAME	11.420
A1/5	600 x 600	NEW SURFACE INLET PIT	600 x 600	CLASS 'B' GALVANISED MILD STEEL GRATE HINGED TO FRAME	11.430
A1/6	900x900	NEW SURFACE INLET PIT	900 x 900	CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME	11.450
A1/7	900x900	NEW SURFACE INLET PIT	900 x 900	CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME	11.470
A2/1	900x900	NEW 1.0m KERB INLET PIT	450 x 900	CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME	10.920

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT		PROJECT	DRAWING TITLE	JOB NUMBER
1	ISSUED FOR DEVELOPMENT APPLICATION	MM		JD	14.06.19			ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.	 Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100	ANGLICARE LIVERPOOL	171349-LP
										CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION	DRAWING NUMBER
										DETAILS - SHEET 3	REVISION
											DAC04.03
											1
											DRAWING SHEET SIZE = A1