

SENIORS LIVING AND RACF DEVELOPMENT - VILLAGE GREEN PENRITH

DEVELOPMENT APPLICATION



LOCALITY AERIAL
NOT TO SCALE

SOURCE : SIX MAPS

DRAWING SCHEDULE		
DRG NO.	DRAWING TITLE	Rev.
C1.01	Cover Sheet	3
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C2.02	Soil and Water Managment Details	3
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C6.07	Typical Drainage Details	3
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Penrith, 15/10/2019 09:13:03, Logon Name: daniel, Cad File: 1:577001 Drawings\dwg\245\DWG\Drawn\DWG\1:01 Cover Sheet.dwg

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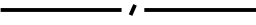
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JOB No.	DRAWING No.		ISSUE	
5778001	C1.01		4	
DATE	STATUS			
OCT 2019	DEVELOPMENT APPLICATION			

Plot Date

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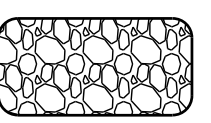
LEGEND

SITE FENCE

SITE GATE

SEDIMENT FENCE

VEHICLE ENTRY SHAKER GRID

SITE STOCKPILE

EXISTING BUILDING TO BE DEMOLISHED

SEDIMENT TRAP FOR KERB INLET - SAND BAGS

- NOTES:
1.

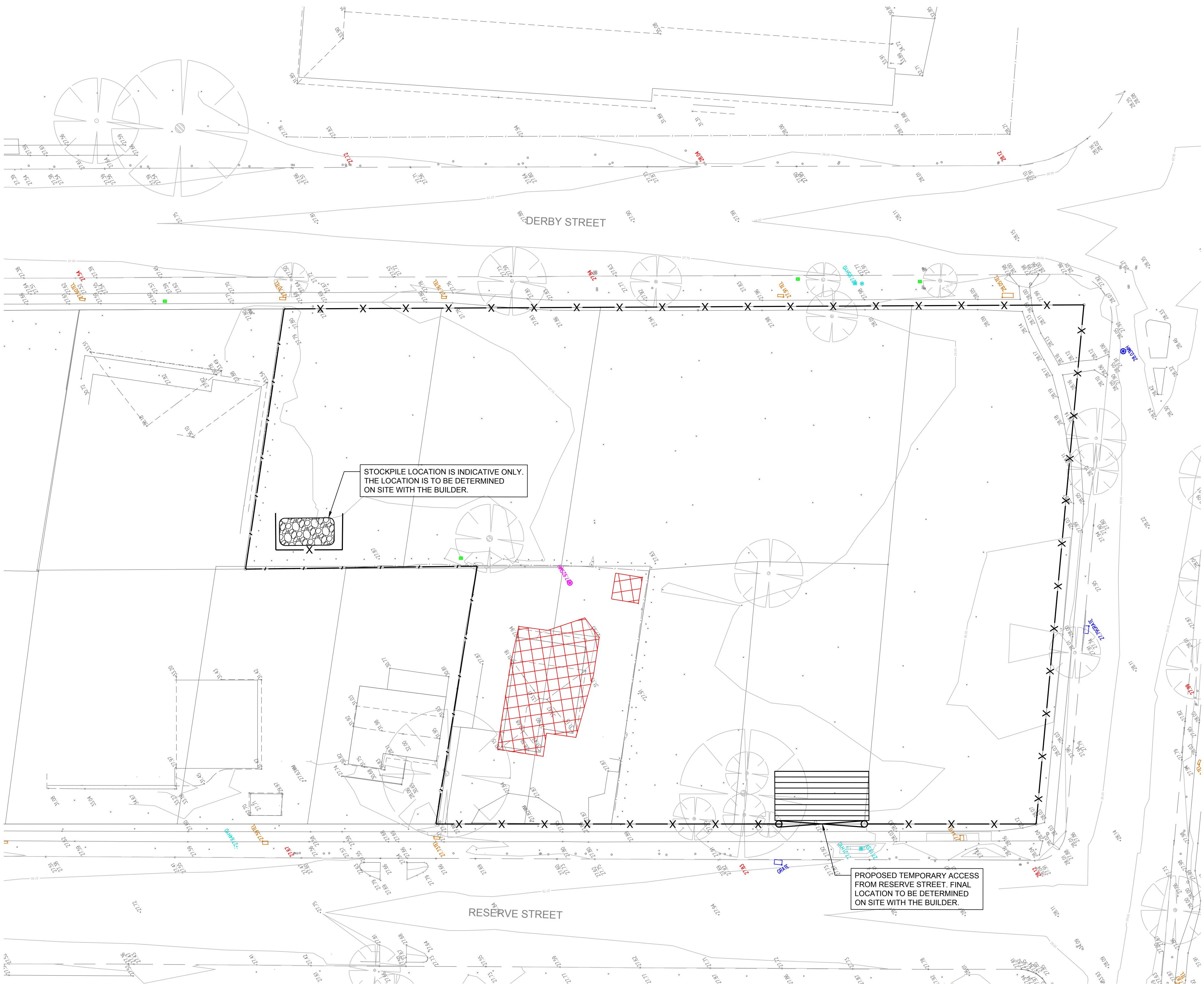
INSTALLATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES IS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE 'BLUE BOOK - MANAGING URBAN STORMWATER'. ALL CONTROLS ARE TO BE INSTALLED PRIOR TO CONSTRUCTION COMMENCING.
2.

THE CONTRACTOR IS RESPONSIBLE FOR THE CORRECT INSTALLATION AND ONGOING MAINTENANCE OF THE CONTROLS. REFER TO DRG EW-C2.02 FOR MAINTENANCE REQUIREMENTS.
3.

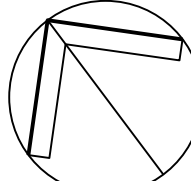
STOCKPILES ARE TO REMAIN CLEAR OF SITE ACCESS, DRAINS AND PAVED AREAS. HEIGHT OF STOCKPILE SHALL NOT EXCEED 2m.
4.

SUITABLE AND APPROVED BINS SHALL BE UTILISED FOR THE CONTAINMENT OF ALL HARD WASTE, INCLUDING CONCRETE SLURRIES, BUILDING WASTE AND LITTER. IN THE CASE OF ACCIDENTAL SPILLS OF SOIL OR OTHER MATERIAL, PARTICULARLY IN THE PUBLIC RESERVE, THE MATERIAL SHALL BE SWEEPED AND CONTAINED AND NOT WASHED INTO A GUTTER.
5.

ALL STORMWATER GRATED INLET PITS OR GRATED TRENCH DRAINS LOCATED ADJACENT TO THE DEVELOPMENT SITE ARE TO BE FITTED WITH GEOTEXTILE INLET FILTERS TO PREVENT THE INGRESS OF ANY SEDIMENT FROM THE PROPOSED WORKS.



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NORTH

5.00

0

2.5

5.0

7.5

10.0m

PLAN

SCALE 1:250

A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR DA	07/12/18			
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PREPARED BY

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Civil Services

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Sydney Water Accredited Water Servicing Co-ordinator and Designer

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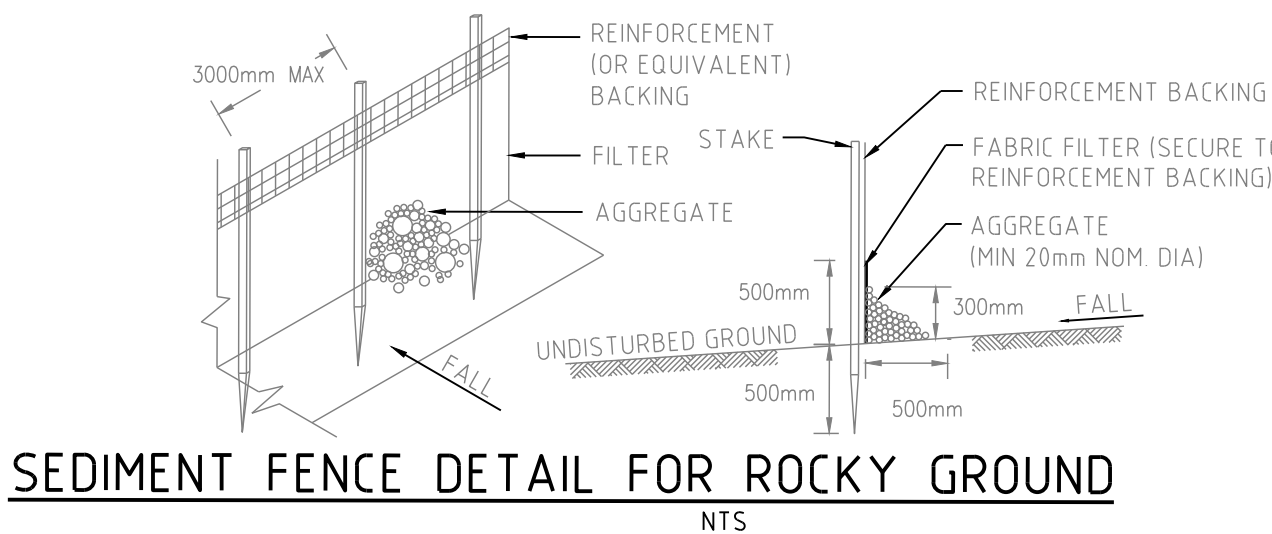
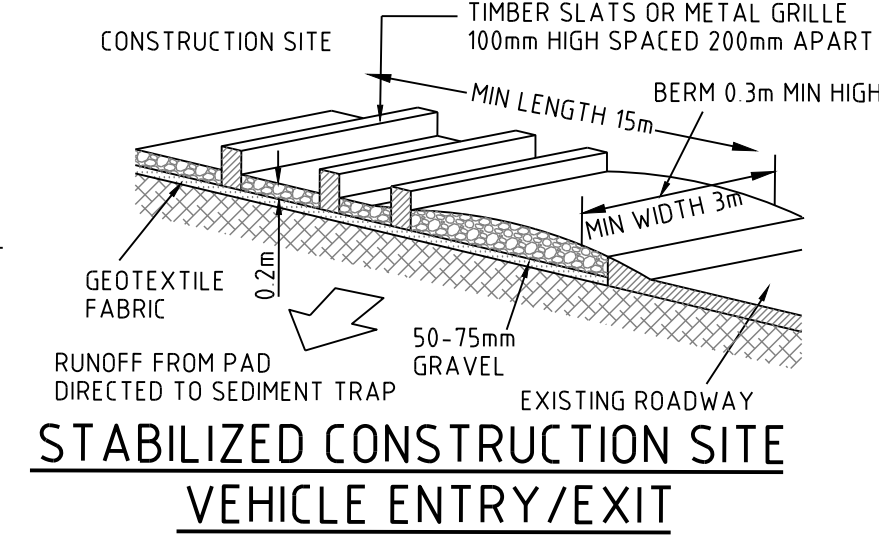
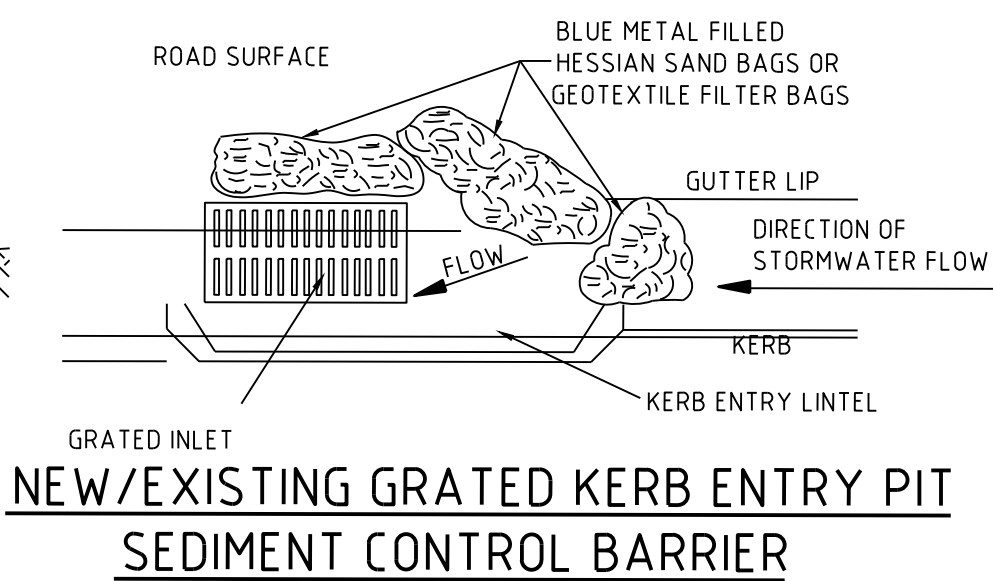
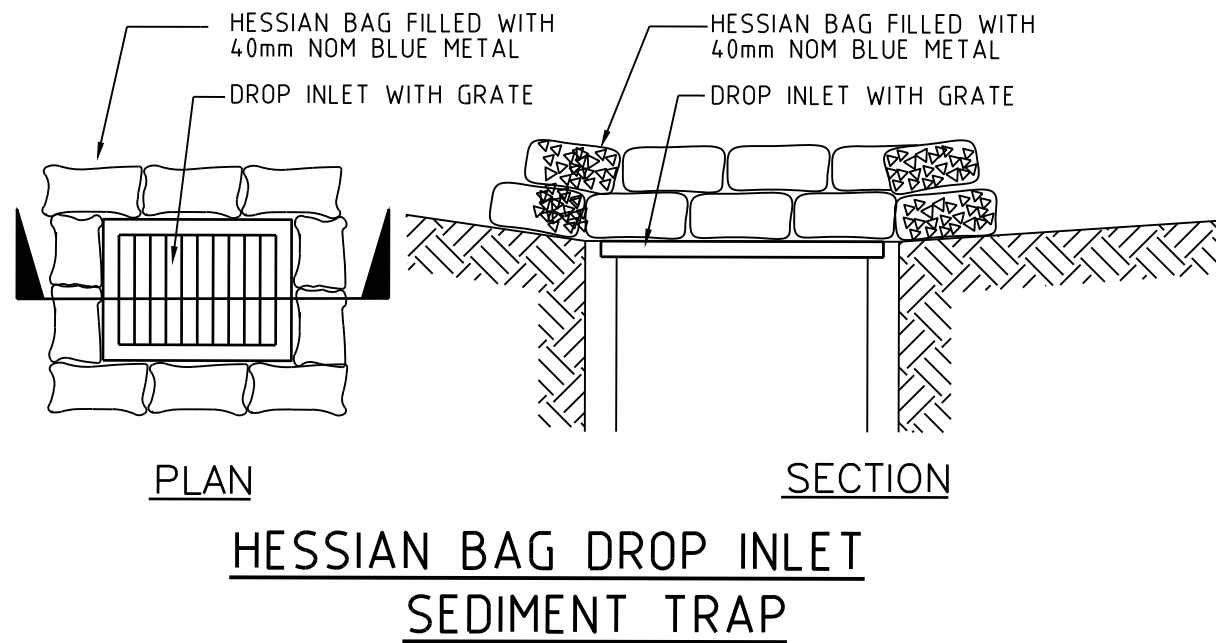
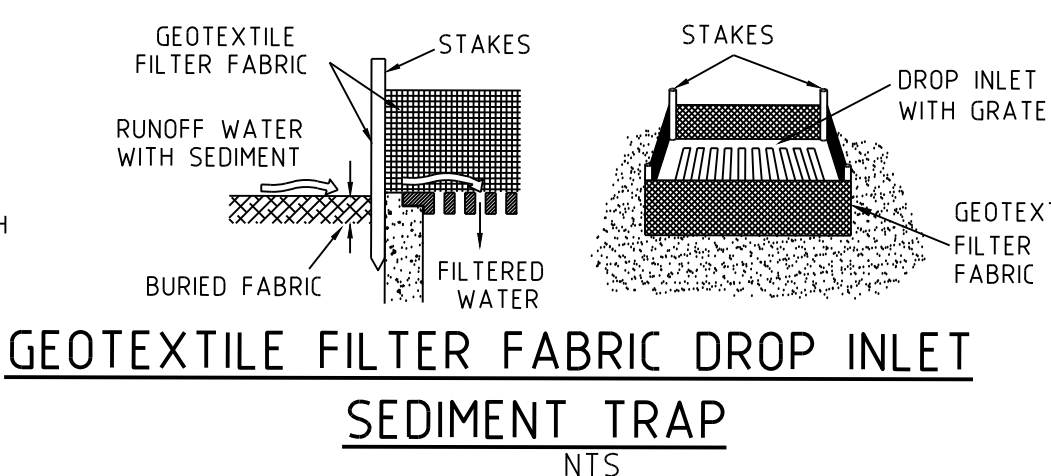
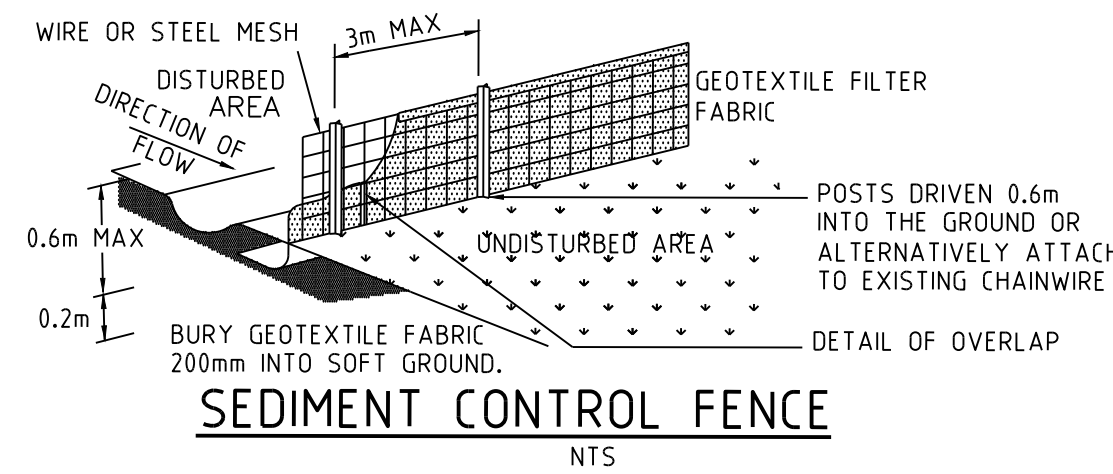
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TITLE				
SOIL AND WATER MANAGEMENT PLAN				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.Cz.	L.Sl.	L.Sh.	M.C.
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SEDIMENT FENCE NOTES:-

1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE OR AT THE TOE OF A SLOPE.
2. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND SUFFICIENT TO PROVIDE RIGID SUPPORT, 3 METERS APART, WHERE THERE IS INSUFFICIENT SOIL DEPTH OVER ROCK, HOLES ARE TO BE DRILLED INTO ROCK TO ACCEPT THE STAR PICKETS.

ON SOFT GROUND MATERIALS, DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.

BACKFILL TRENCH OVER BASE OF FABRIC & COMPACT.

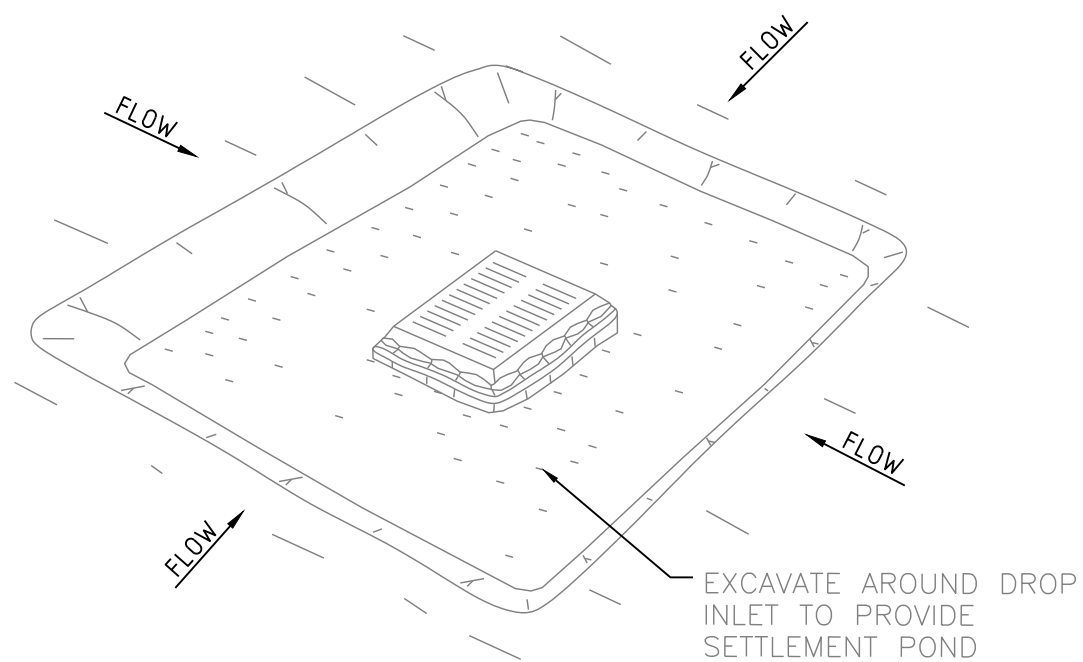
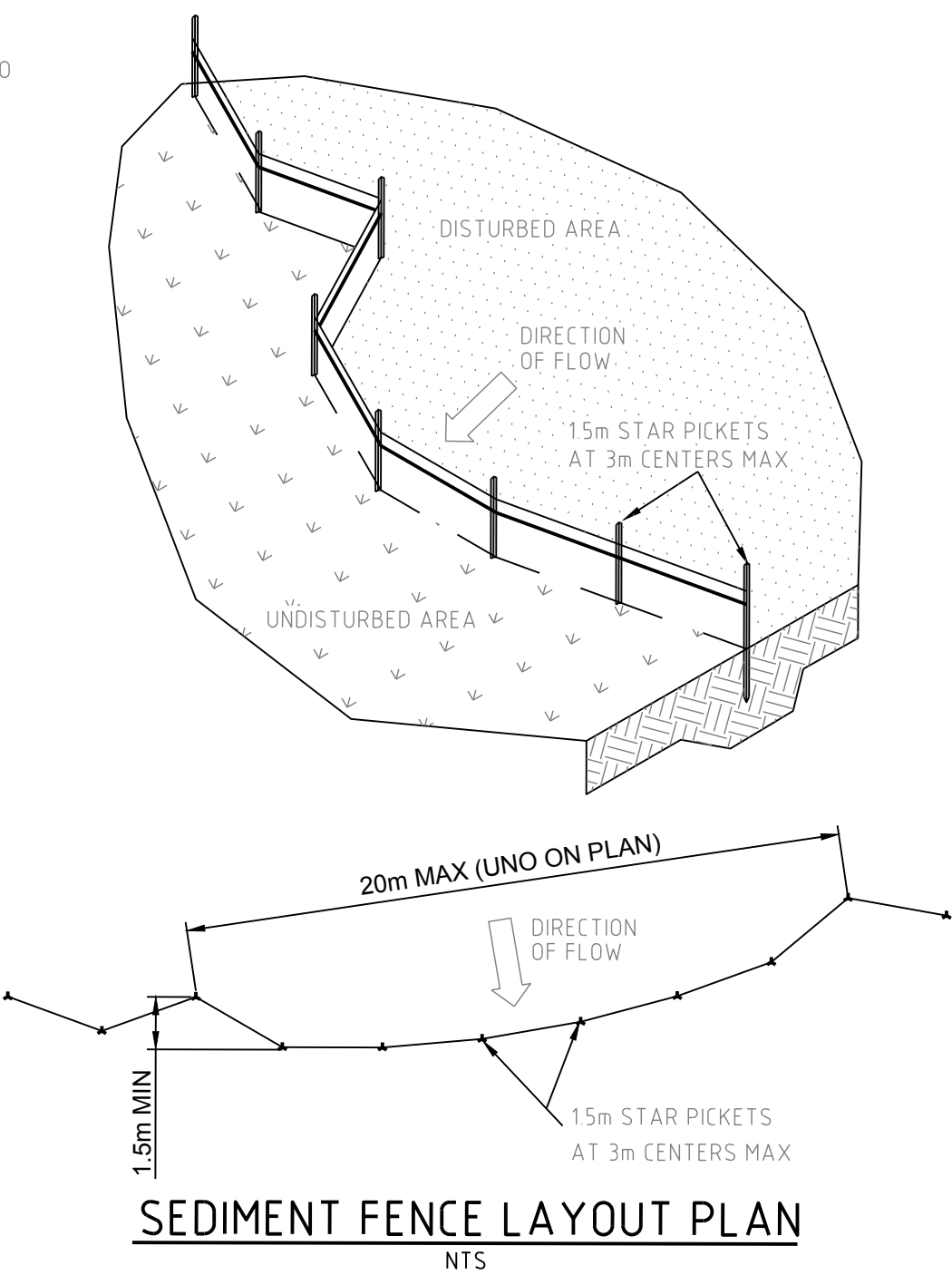
4. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY THE GEOTEXTILE MANUFACTURER. USE A REINFORCEMENT BACKING WITH NON SELF-SUPPORTING GEOTEXTILE FABRIC.

JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

6. ON HARD OR ROCKY GROUND, SMOOTH A 500mm WIDE STRIP UPSLOPE OF THE FENCE LINE. TURN THE BOTTOM 500mm OF THE FABRIC UPSLOPE AND ANCHOR IN PLACE WITH SUITABLE AGGREGATE.

7. WHERE A SEDIMENT FENCE IS CONSTRUCTED DOWN SLOPE FROM A DISTURBED BATTER THE FENCE SHOULD BE LOCATED 1.5 TO 2.0 METERS DOWN SLOPE FROM THE TOE OF THE BATTER.

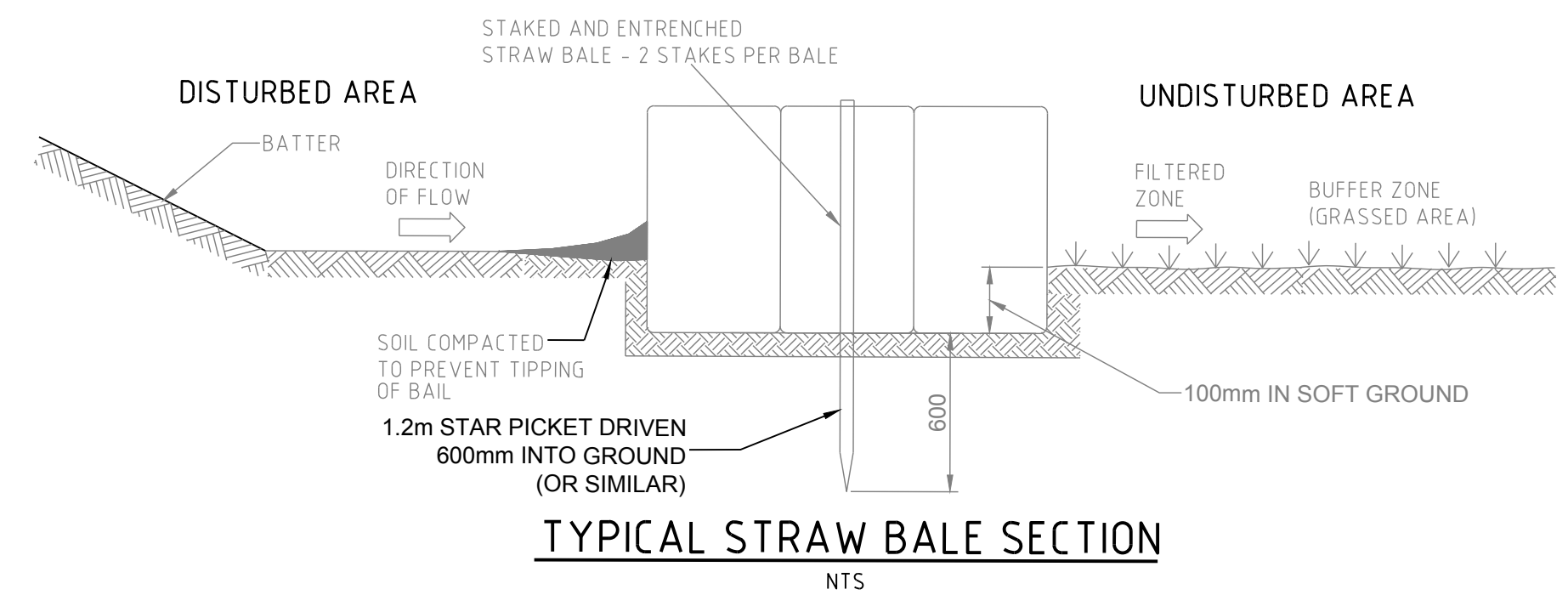
8.



EXCAVATED SEDIMENT TRAP

EXCAVATED SEDIMENT TRAP NOTES:-

1. REMOVE THE SEDIMENT WHEN IT HAS ACCUMULATED TO HALF THE DESIGN DEPTH OF THE TRAP AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
2. PROVIDE 50 cu.m/Ha OF SEDIMENT STORAGE VOLUME.
3. REFER TO THE MAINTENANCE REQUIREMENTS.



STRAW BALE NOTES:-

1. CONSTRUCT STRAW BALE FILTER AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE OR AT THE TOE OF A SLOPE.

2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS TO BE PLACED PARALLEL TO GROUND.

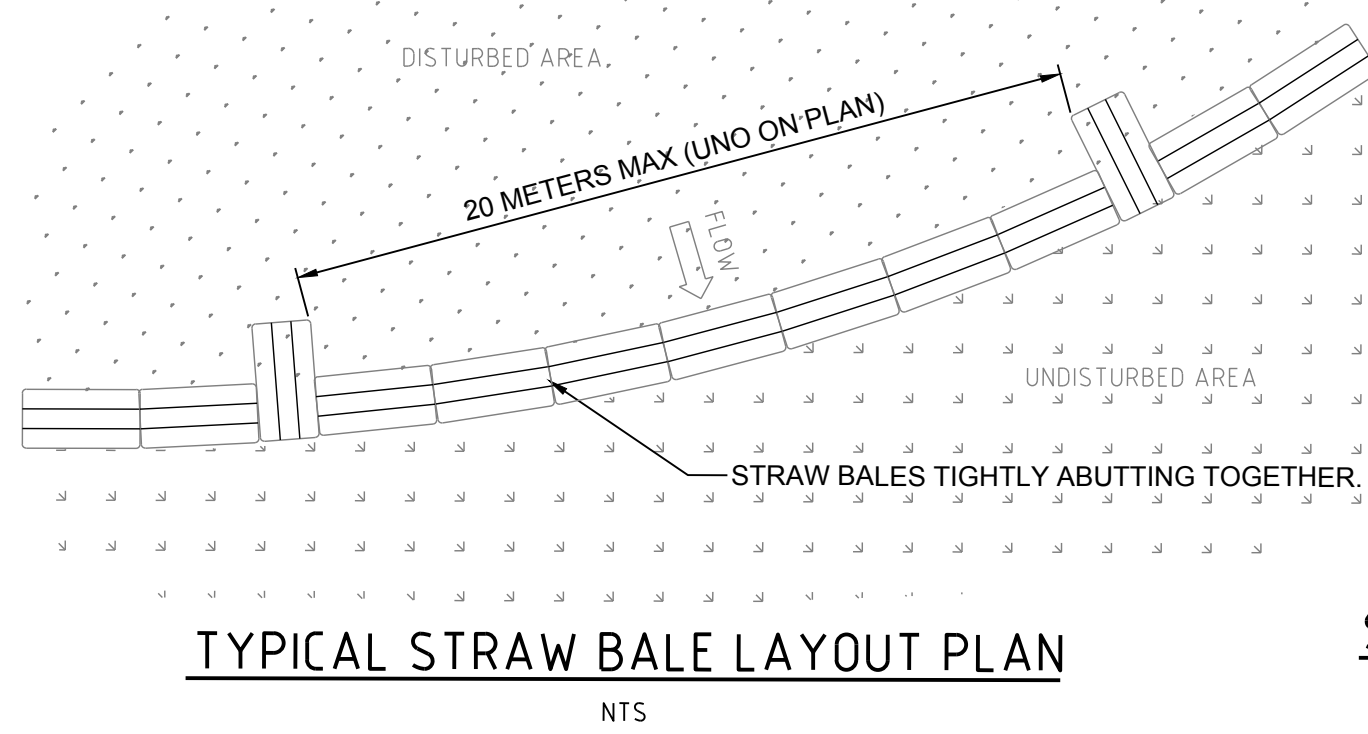
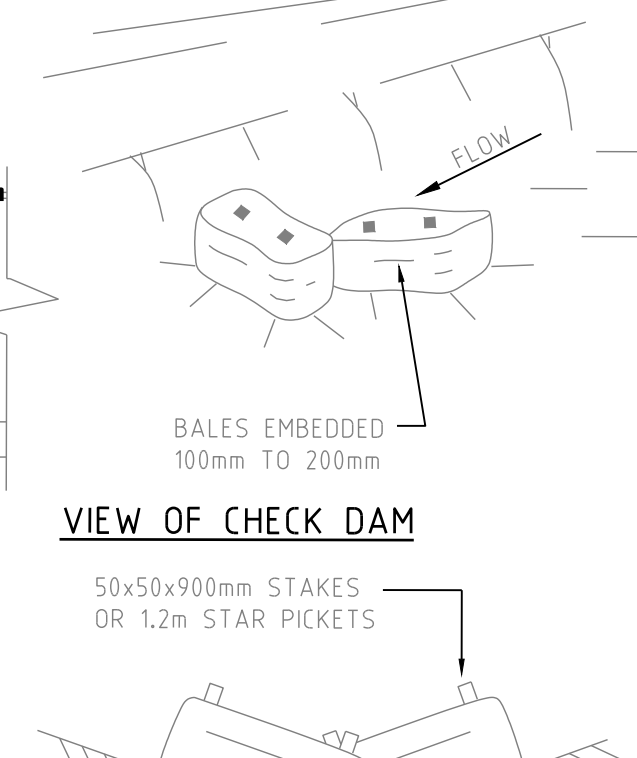
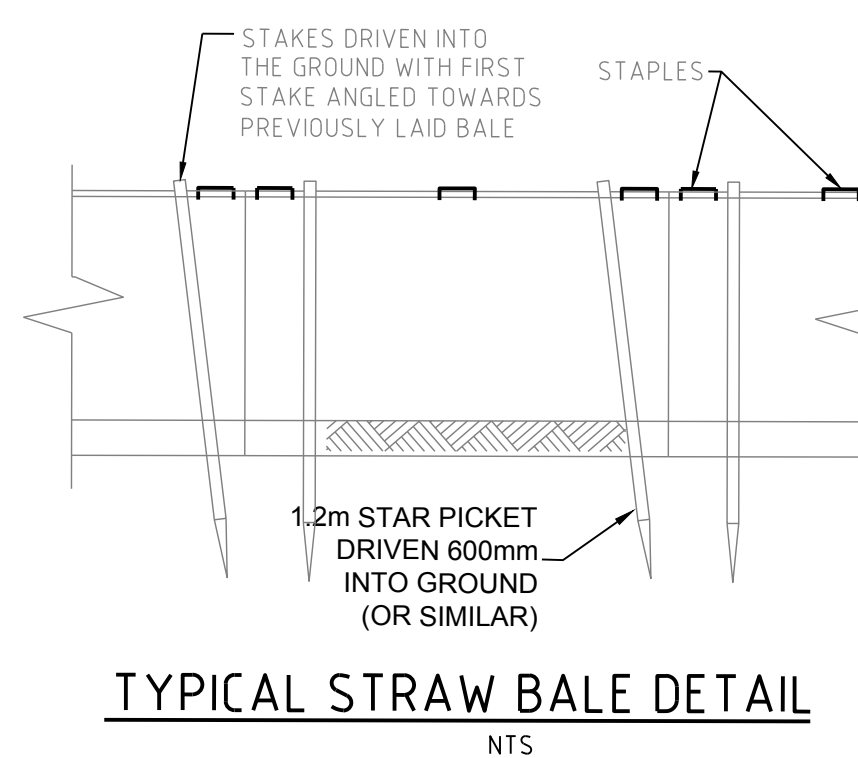
MAXIMUM HEIGHT OF FILTER IS ONE BALE.

3. ON SOFT MATERIALS, EMBE EACH BALE IN THE GROUND 75mm TO 100mm.
4. AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS, ANGLE THE FIRST STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BAIL. DRIVE STAKES 600mm INTO THE GROUND AND FLUSH WITH THE TOP OF THE BALES.

- WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWN SLOPE FROM A DISTURBED BATTER THE BALES SHOULD BE LOCATED 1.5 TO 2.0 METERS DOWN SLOPE FROM THE TOE OF THE BATTER.

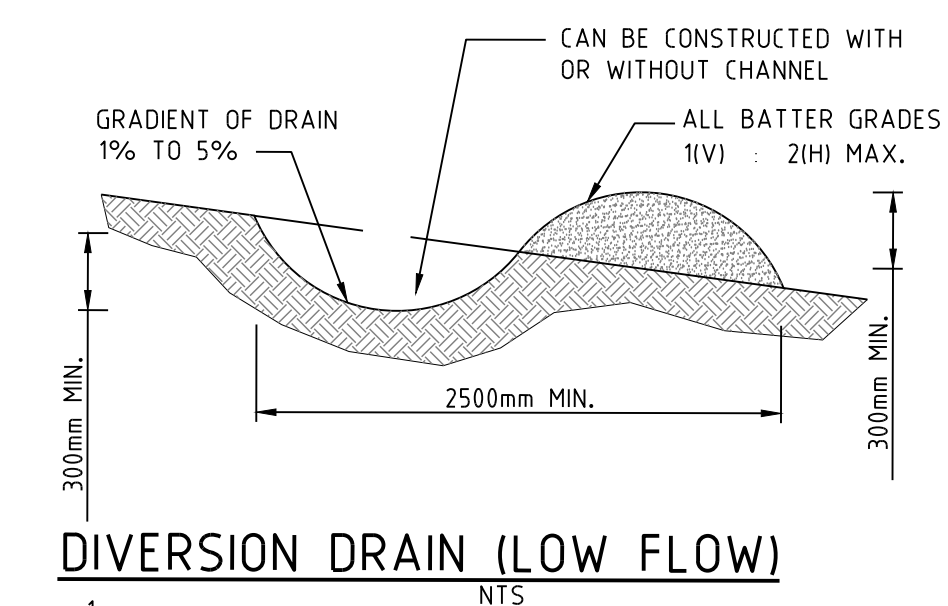
- WHERE REQUIRED WRAP GEOTEXTILE FILTER FABRIC AROUND BALES AND STAPLE IN POSITION.

6.



LONGITUDINAL GRADE (%)	SPACING (METERS)
0 - 5	40
5 - 10	30
10 - 15	20
GREATER THAN 15	10

STRAW BALE CHECK DAM DETAILS



DIVERSION DRAIN NOTES:-

1. CONSTRUCT WITH GRADIENT OF 1 PER CENT TO 5 PER CENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE.
3. DRAINS TO BE OF CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTION NOT V-SHAPED.
4. EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE.
5. PERMANENT OR TEMPORARY STABILIZATION OF THE EARTH BANK TO BE COMPLETED WITHIN 10 DAYS OF CONSTRUCTION.
6. ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO A SEDIMENT BASIN OR SIMILAR.
7. DISCHARGE RUN OFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILIZED OR AN UNDISTURBED DISPOSAL SITE WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED.
8. COMPACT BANK WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS.
9. EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT WILL IMPEDE NORMAL FLOW.

SITE ENTRY/EXIT NOTES:-

1. ALL VEHICLE ENTRANCES & EXITS TO THE CONSTRUCTION SITE MUST BE STABILIZED TO PREVENT THEM BECOMING A SOURCE OF SEDIMENT, BY PROVIDING A VEHICLE SHAKE AREA. THIS MAY CONSIST OF A TIMBER, CONCRETE OR STEEL SHAKER GRID OR RUBBLE AREA.

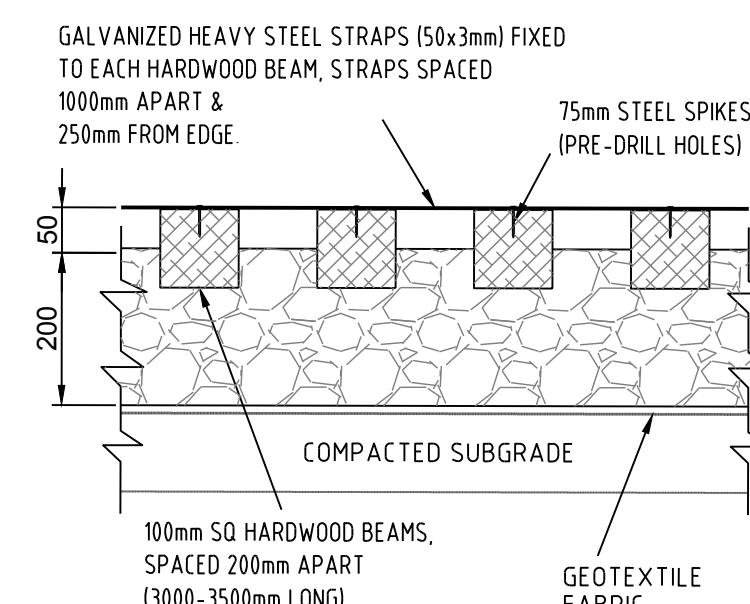
2. THE VEHICLE EXIT AREA IS TO BE MAINTAINED IN A CLEAN & SERVICEABLE CONDITION DURING THE TOTAL TIME OF USAGE.

- ANY UNSEALED ROAD BETWEEN THE DEVICE AND COUNCILS ROADWAY IS TO BE TOPPED WITH 100mm THICK, 40mm NOMINAL SIZE AGGREGATE.

3. PUBLIC ROADS MUST BE KEPT FREE OF DIRT AND MUD. SEDIMENT TRACKED ONTO THE PUBLIC ROADWAY BY VEHICLES LEAVING THE CONSTRUCTION SITE IS TO BE SWEEPED UP IMMEDIATELY.

4. FENCES SHOULD BE ERECTED TO ENSURE VEHICLES CAN NOT BYPASS THE STABILIZED ACCESS POINTS, UNLESS COMING FROM A STABILIZED AREA.

5.



VEHICLE SHAKER GRID

SITE ENTRY/EXIT CONSTRUCTION NOTES:-

1. STRIP TOP SOIL & LEVEL SITE. PROVIDE CATCH DRAIN AT SIDES TO DIRECT RUNOFF WATER TO SEDIMENT TRAPS.

2. COMPACT SUBGRADE AND REMOVE ANY HIGH POINTS.

3. COVER AREA WITH GEOTEXTILE FABRIC. THIS MAY BE WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N.

4. CONSTRUCT 200mm THICK RUBBLE PAD OVER GEOTEXTILE USING ROAD BASE OR 30-40mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES. CONSTRUCT 300mm HIGH HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT TRAP.

- WHERE GRIDS ARE USED FIRST CONSTRUCT A 150 THICK PAD OVER GEOTEXTILE FABRIC. LEVEL THIS IN BOTH DIRECTIONS. LOWER GRID ON TO THE PREPARED BASE AND ENSURE THAT NO PART IS SITTING ON ANY HIGH POINTS. BACKFILL THE SPACES BETWEEN THE GRIDS TO WITHIN 50mm OF THE TOP.

- PROVIDE RAMPS AT ENDS AND SIDE OF GRIDS. IF DEPRESSIONS OCCUR IN THE RAMPS DURING USE. ADD ADDITIONAL MATERIAL.

6.

MAINTENANCE REQUIREMENTS:-

1. ACCUMULATED SILT & SEDIMENT MUST BE REMOVED AT REGULAR INTERVALS AND AFTER EACH MAJOR STORM.

2. SILT & SEDIMENT MUST BE REMOVED FROM OFF THE SITE OR TO A COUNCIL APPROVED LOCATION WITHIN THE SITE, WHERE IT WILL NOT ERODE.

- THE SEDIMENT FENCES, BALES & TRAPS SHALL BE REGULARLY INSPECTED, ESPECIALLY AFTER RAIN AND KEPT IN GOOD REPAIR AND FUNCTIONING CONDITION AT ALL TIMES.

- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT SEDIMENT, EROSION & WATER POLLUTION SHALL BE MINIMIZED.

- THE SEDIMENT TRAPS SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE CONSTRUCTION AREA HAS BEEN PROPERLY STABILIZED.

5.

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2	RE-ISSUE FOR DA	07/06/19			
3	RE-ISSUE FOR DA	16/10/19			

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PROJECT	SENIORS LIVING AND RACF DEVELOPMENT - VILLAGE GREEN PENRITH

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CONSULTING ENGINEERS	Hydraulic Services Fire Services Civil Services Sydney Water Accredited Water Servicing Co-ordinator and Designer
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SOIL AND WATER MANAGMENT DETAILS				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.Cz.	L.Si.	L.Sh.	M.C.
JOB No	DRAWING No		ISSUE	
5778001	C2.02		3	
DATE	STATUS			
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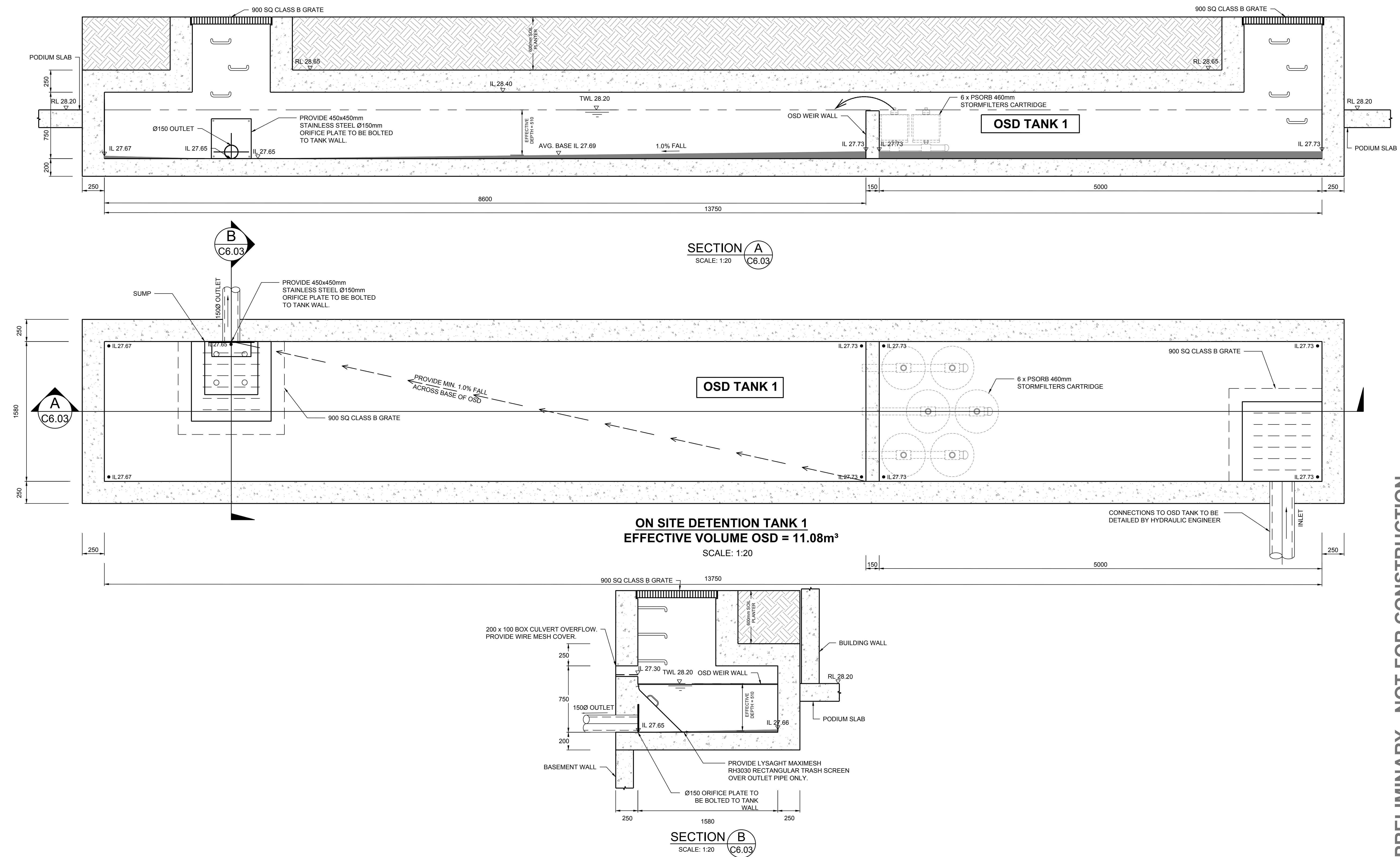
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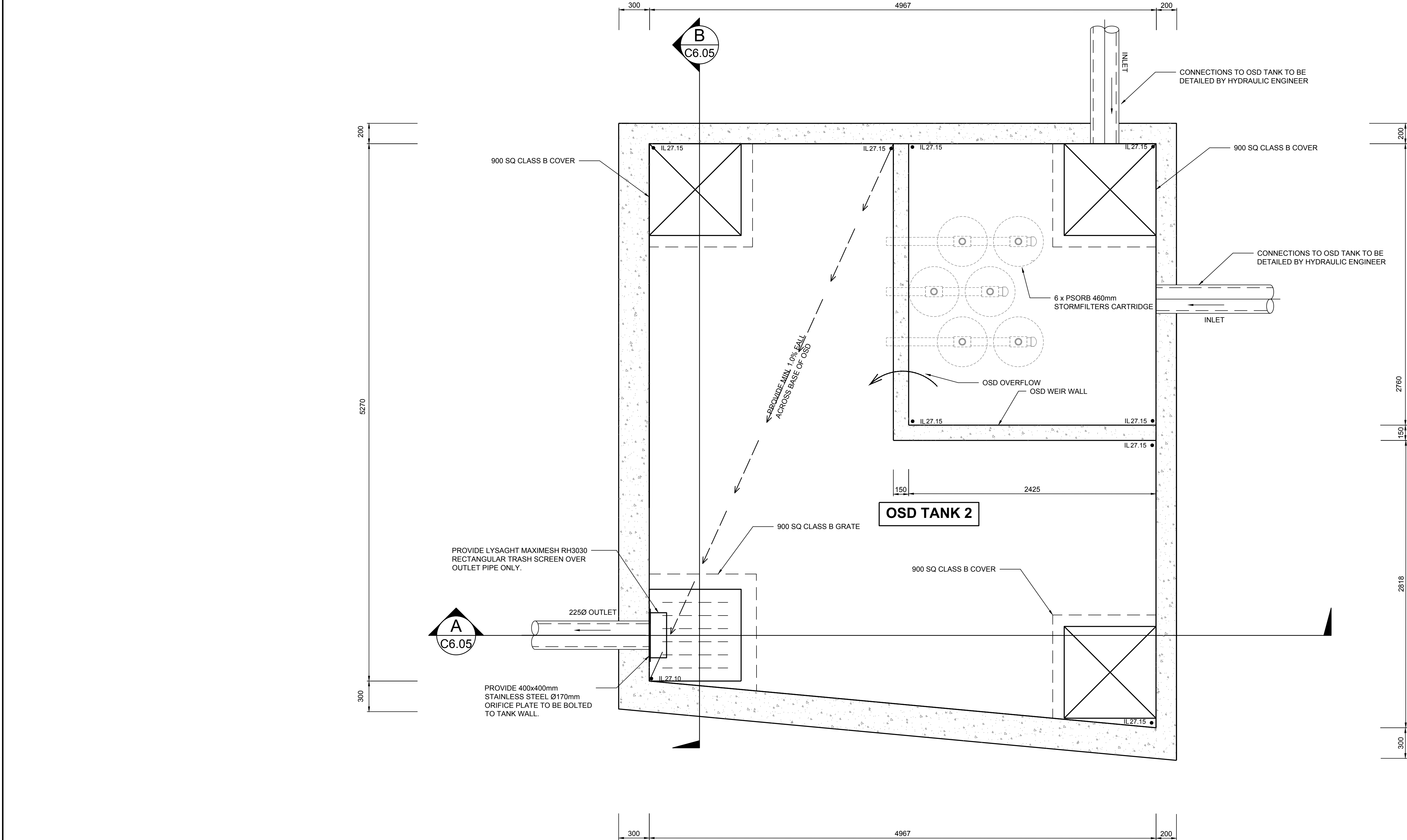
**ON-SITE DETENTION (OSD)
TANK 1 PLAN AND SECTIONS**

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AS SHOWN	M.Cz.	L.Si.	L.Sh.	M.C.
JOB No.	DRAWING No.		ISSUE	
5778001	C6.03		4	
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ON SITE DETENTION TANK 2
EFFECTIVE VOLUME OSD = 20.48m³
SCALE: 1:20

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CONSULTING ENGINEERS

Hydraulic Services

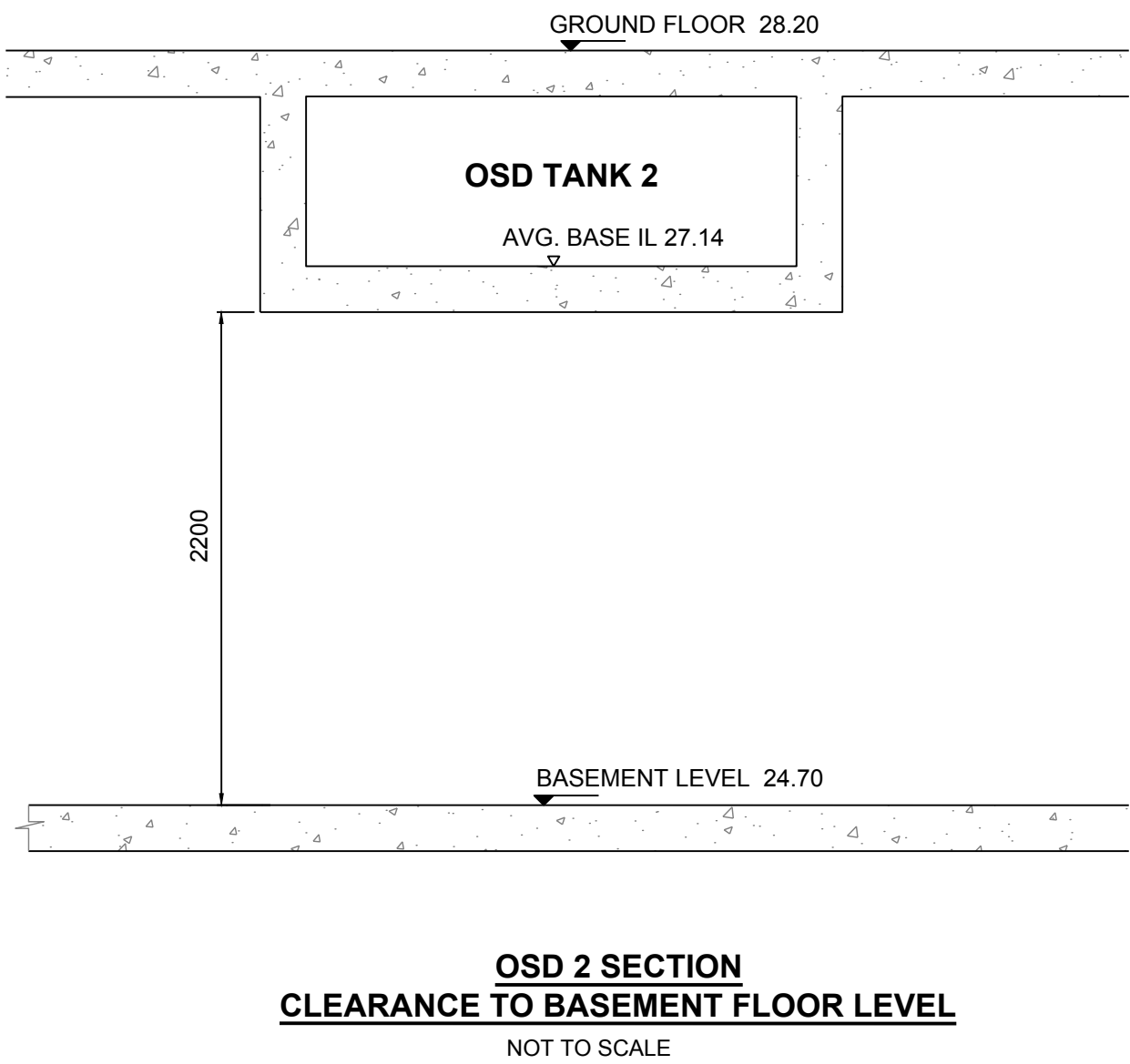
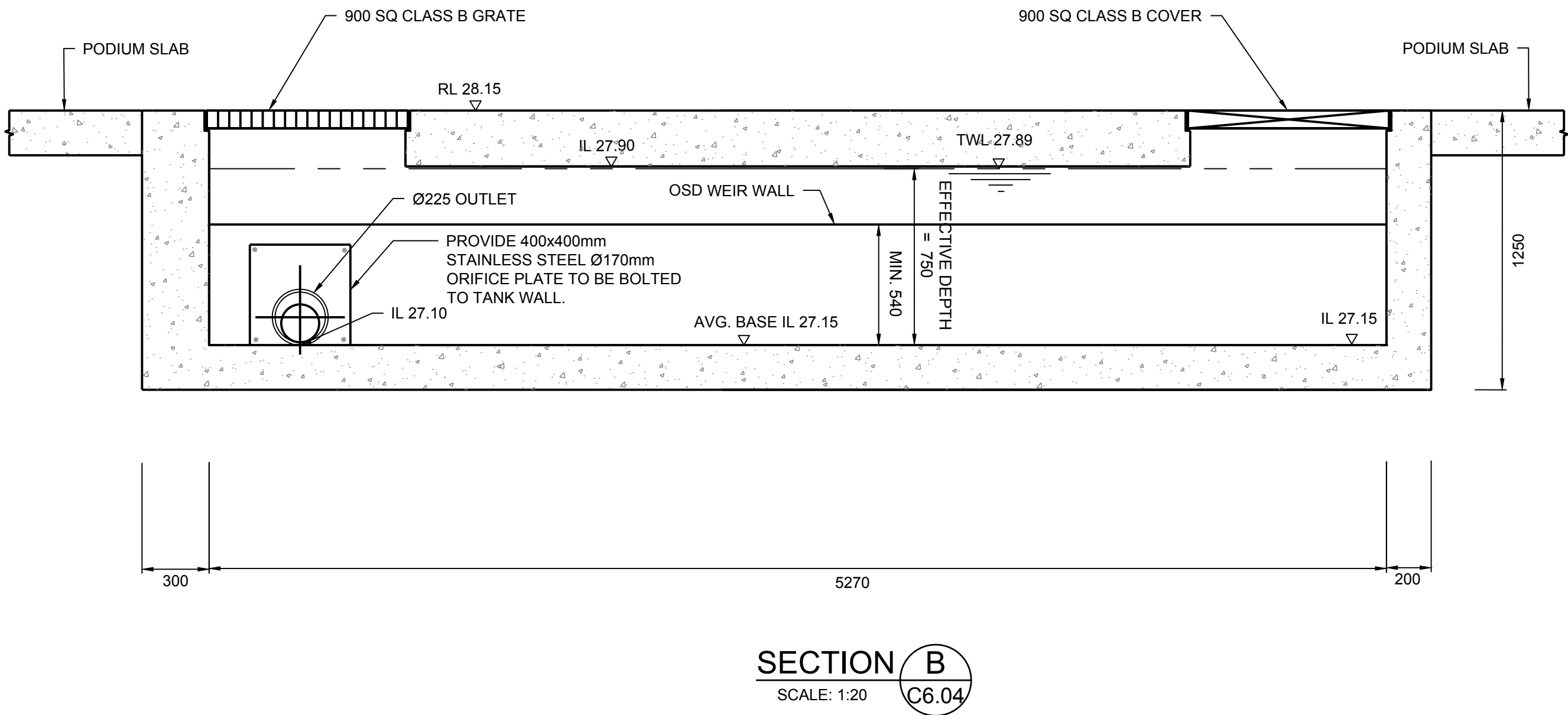
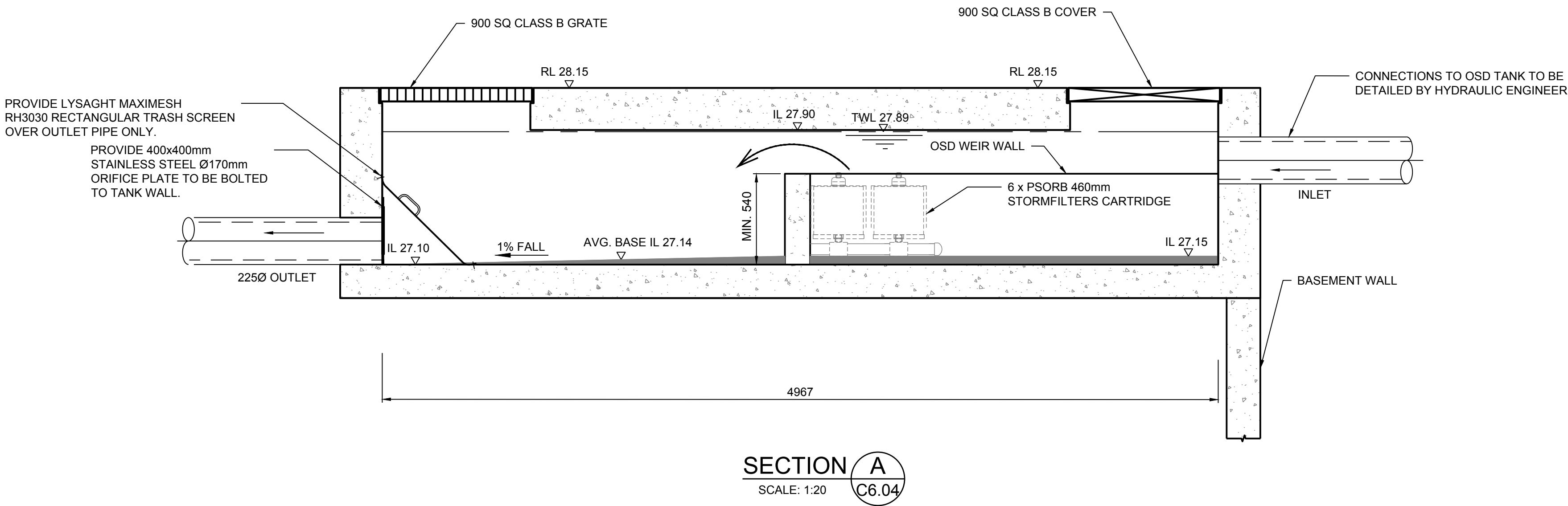
Fire Services

Civil Services

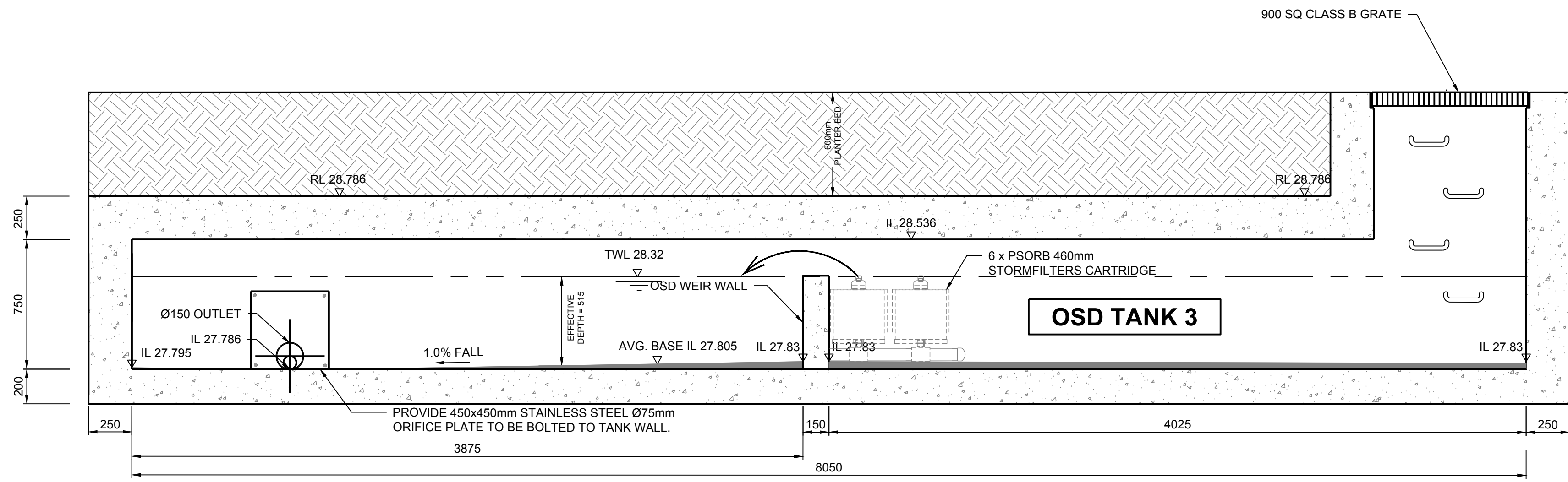
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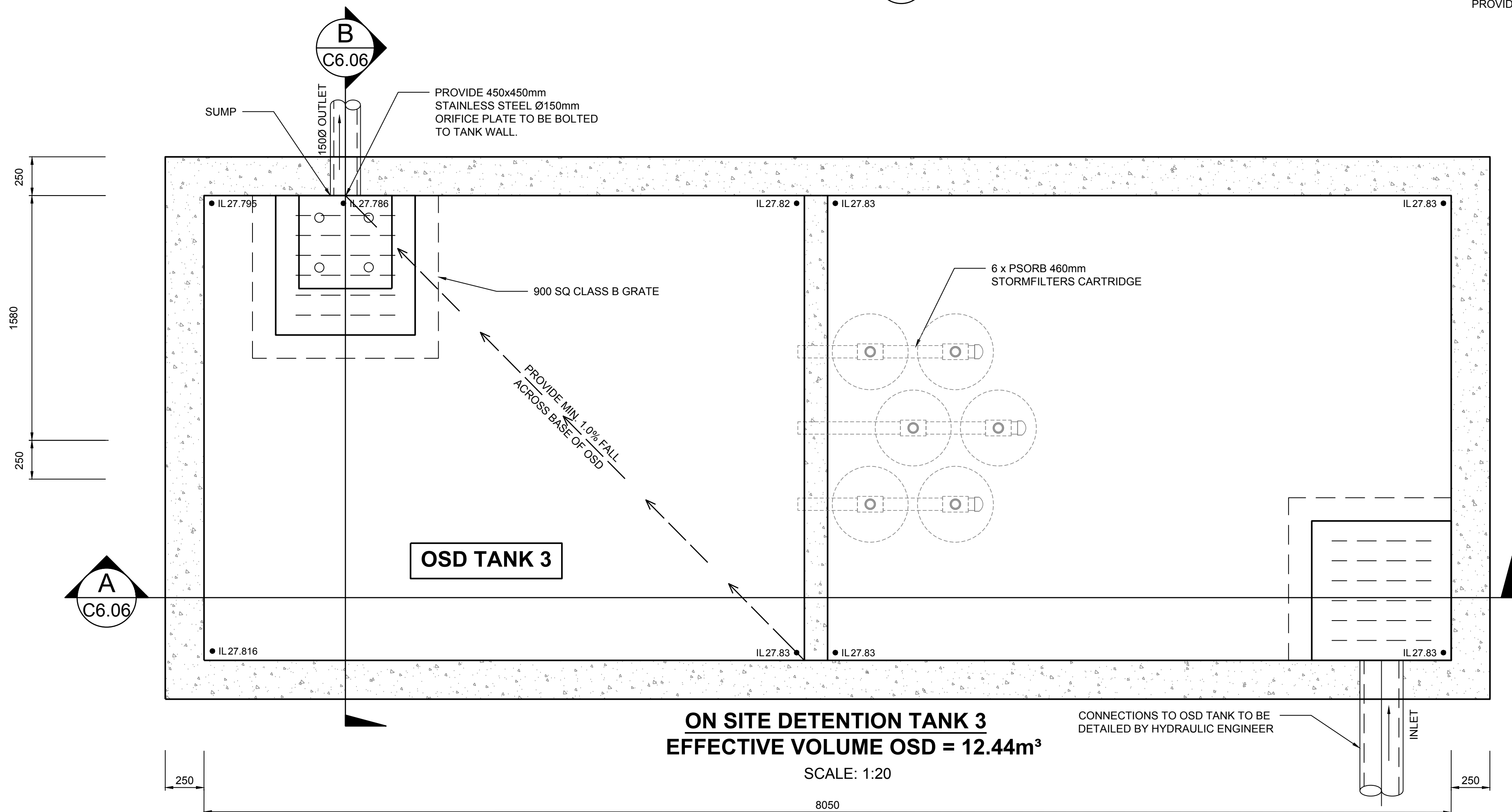
ON-SITE DETENTION (OSD) TANK 2 SECTIONS				
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JOB No. 5778001		DRAWING No. C6.05	ISSUE 4	
DATE OCT 2019	STATUS DEVELOPMENT APPLICATION			



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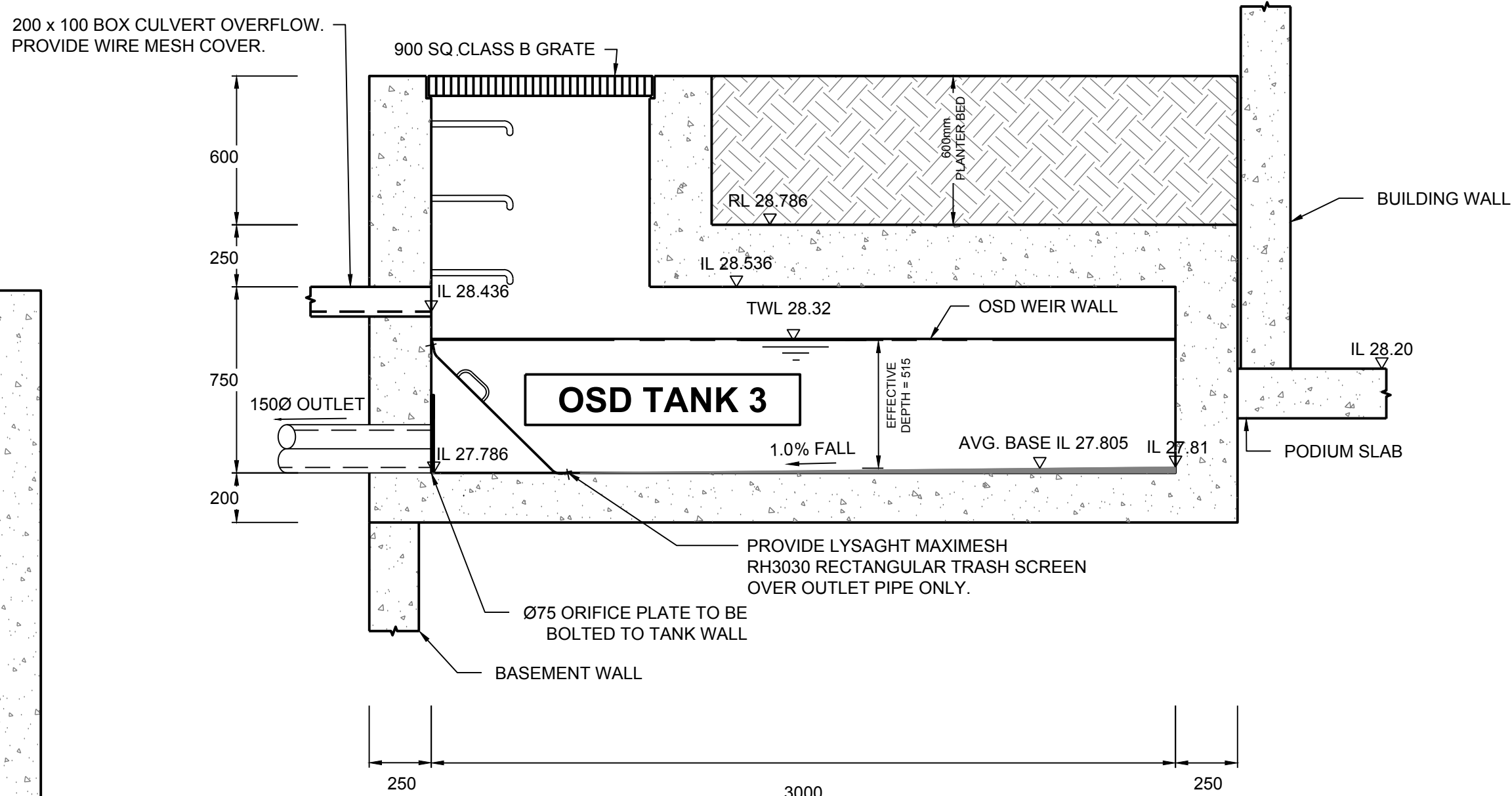


SECTION A
SCALE: 1:20
C6.06



ON SITE DETENTION TANK 3
EFFECTIVE VOLUME OSD = 12.44m³

SCALE: 1:20

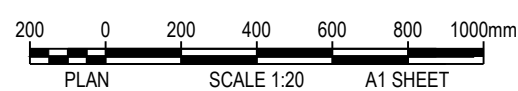


SECTION B
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C6.06

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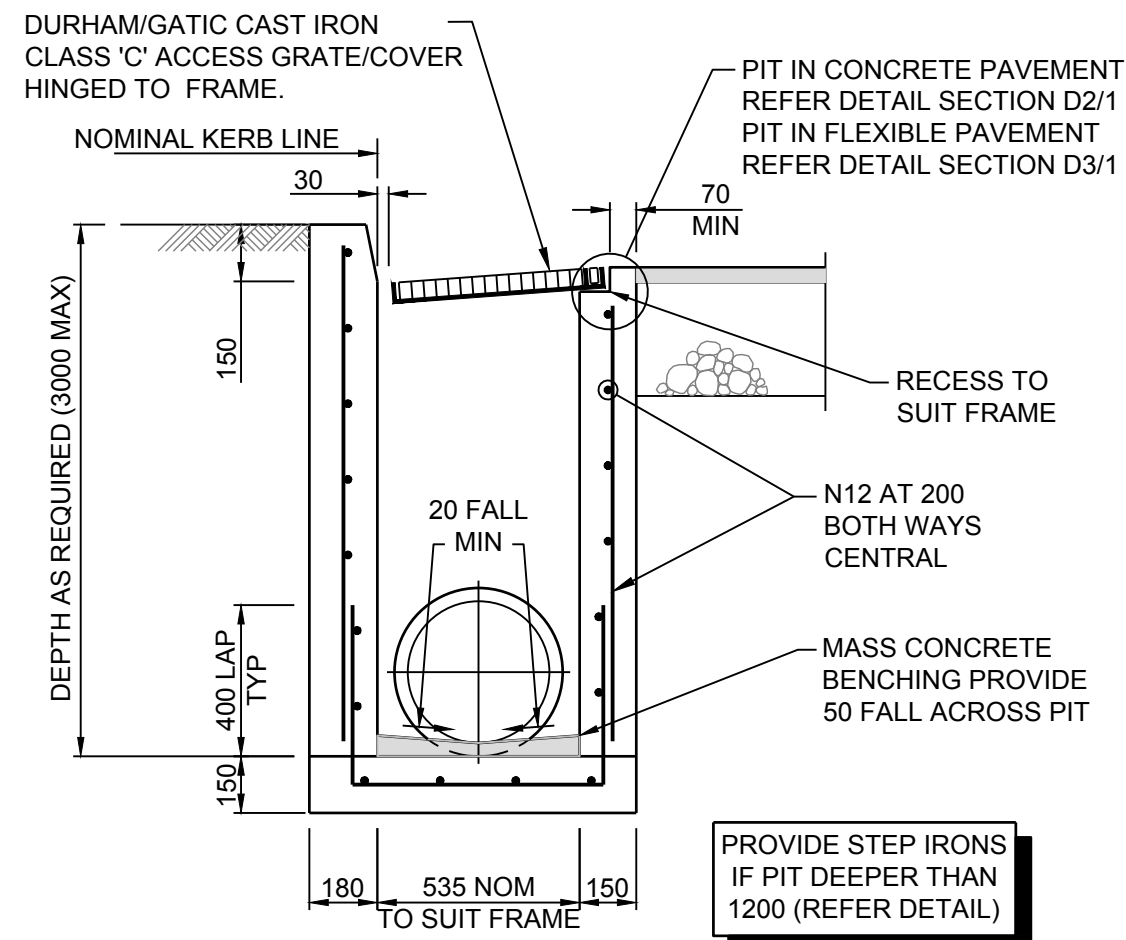
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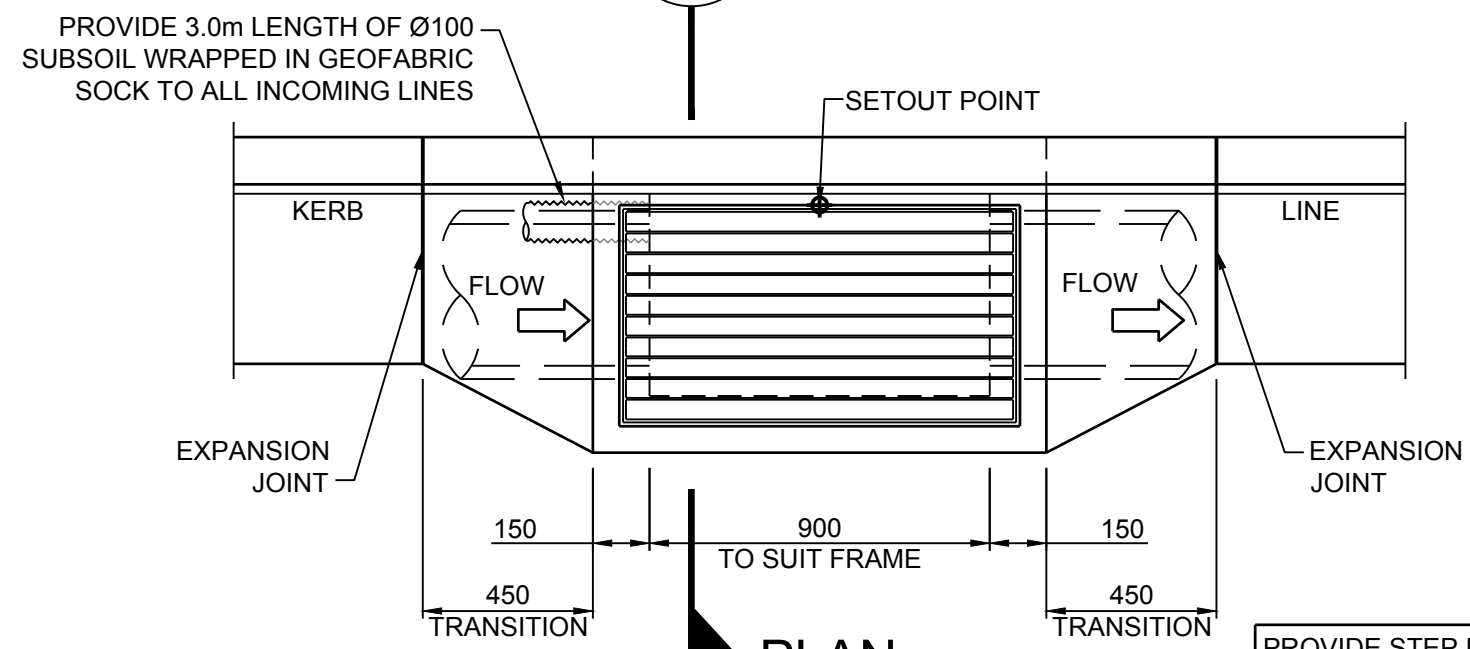
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- Fire Services
- Civil Services
- Sydney Water Accredited Water Servicing Co-ordinator and Designer

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE				
ON-SITE DETENTION (OSD) TANK 3 PLAN AND SECTIONS				
SCALE AS SHOWN	DRAWN M.Cz.	DESIGNED L.Si.	CHECKED L.Sh.	APPROVED M.C.
JOB No. 5778001		DRAWINGS No. C6.06	ISSUE 4	
DATE OCT 2019	STATUS DEVELOPMENT APPLICATION			



DETAIL D1/1
SCALE 1:20

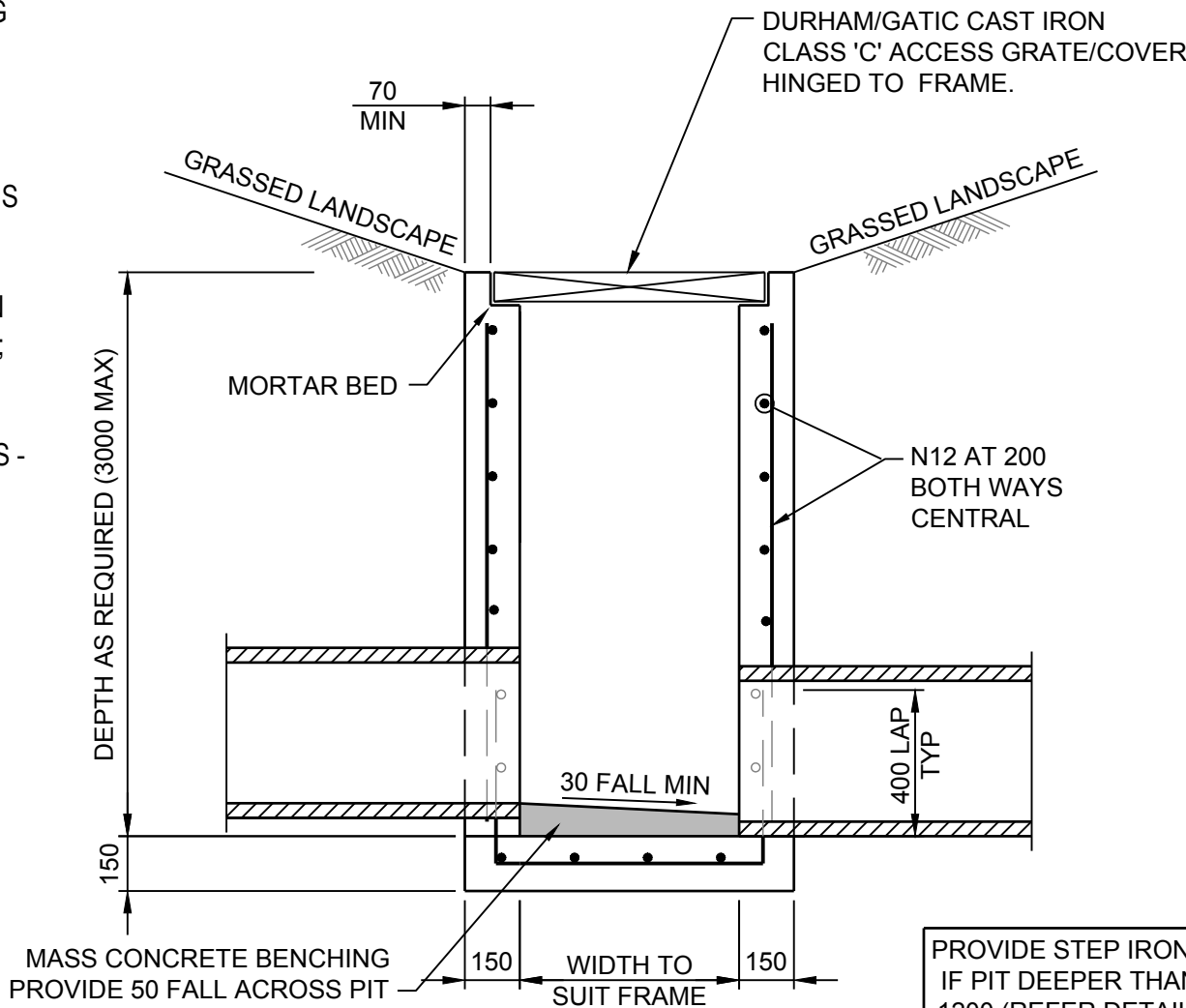


GRATED GULLY PIT
SCALE 1:20

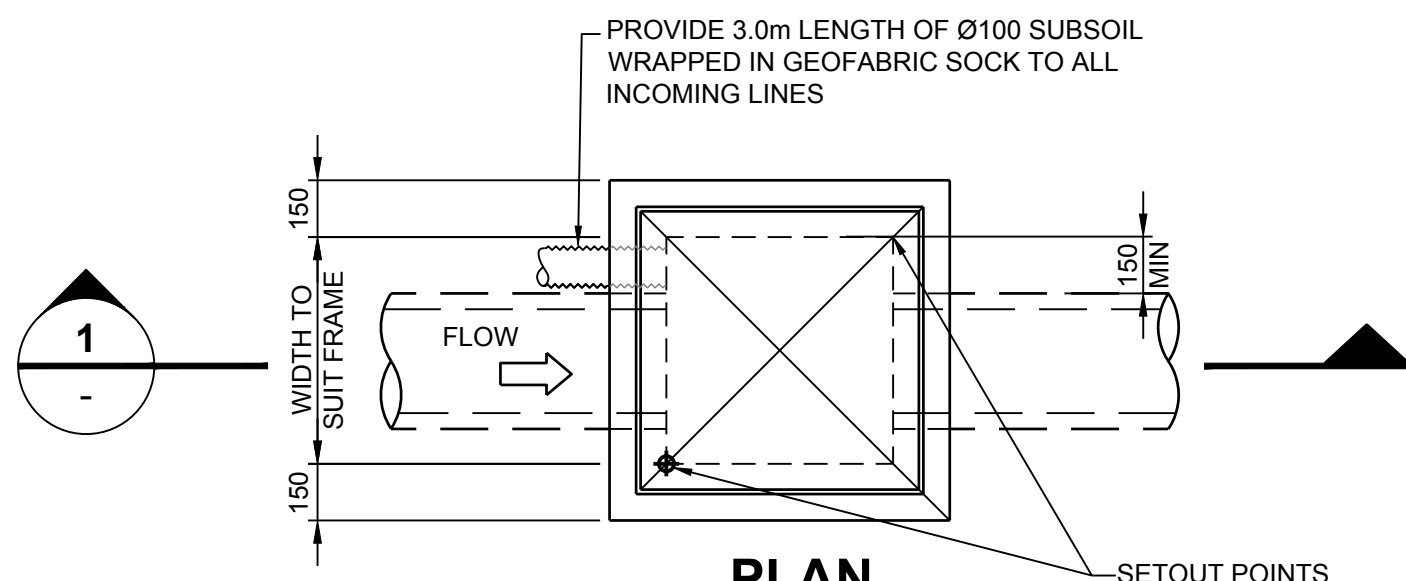
(PIPE SIZES $\leq \varnothing 375$)
TO PENRITH CITY COUNCIL SPECIFICATION

NOTES:

1. TRENCH WIDTH MAY NEED TO BE INCREASED SUBJECT TO ACHIEVING ADEQUATE COMPACTION.
2. MINIMUM PIPE COVER NOT UNDER ROADS = 450mm UNO.
3. THE CONTRACTOR SHALL ENSURE THAT THE SHORING OF TRENCHES IS INSTALLED AS REQUIRED BY STATUTORY REQUIREMENTS.
4. ENSURE BACKFILLING COMPACTION MEETS THE RELEVANT STANDARDS;
A) TRENCHES UNDER PAVED AREAS & BUILDINGS - 100% SMDD.
B) TRENCHES NOT UNDER PAVEMENTS - 95% SMDD.

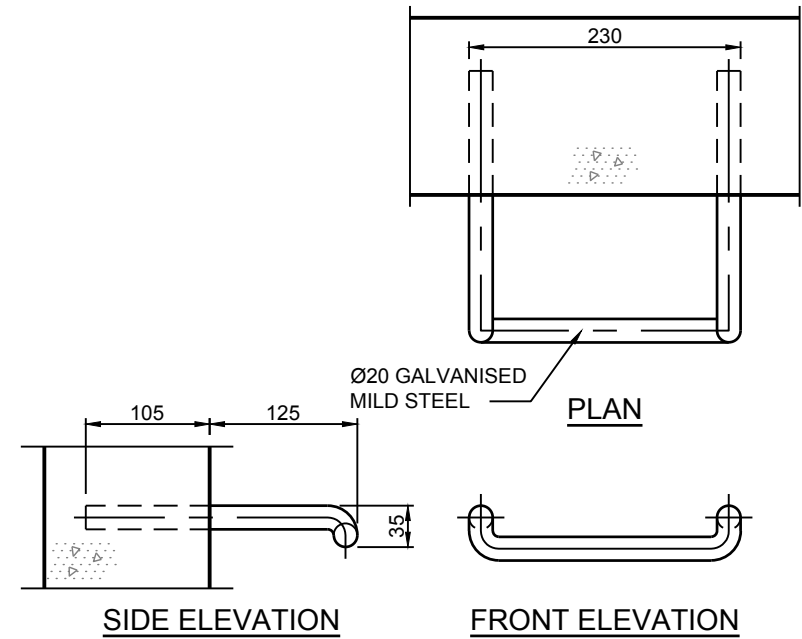


DETAIL D1/2
SCALE 1:20

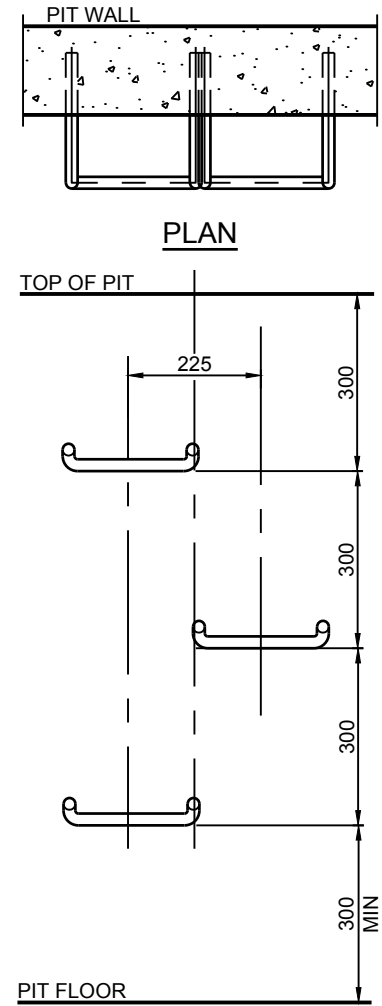


PLAN
SCALE 1:20

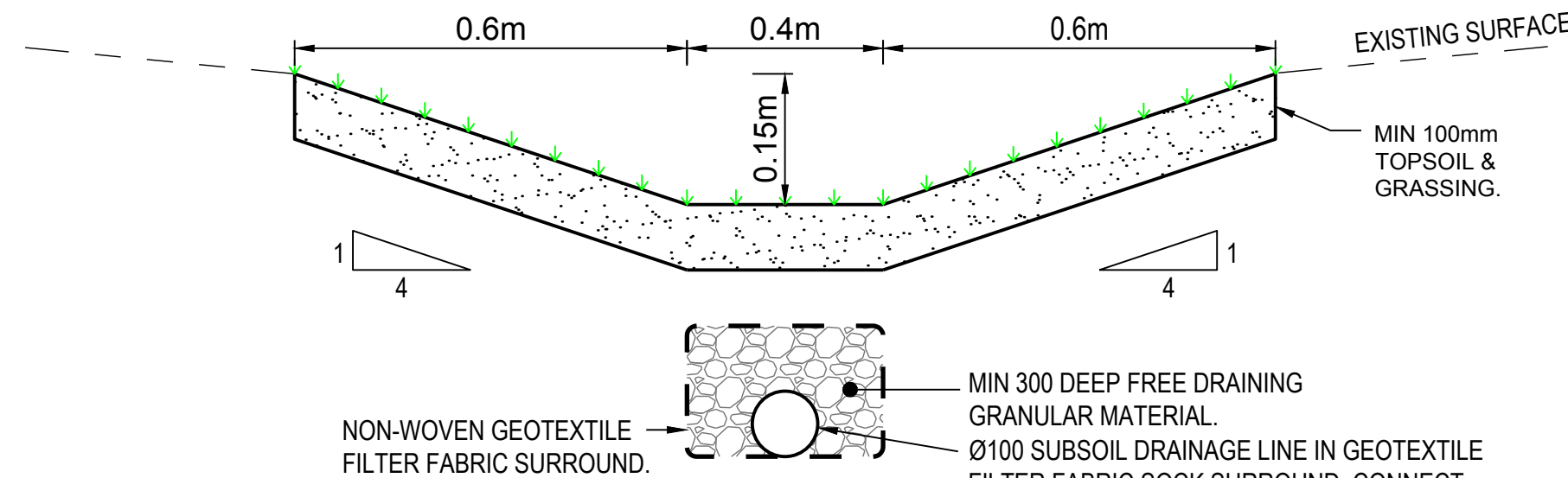
600 - 900SQ SURFACE INLET PITS



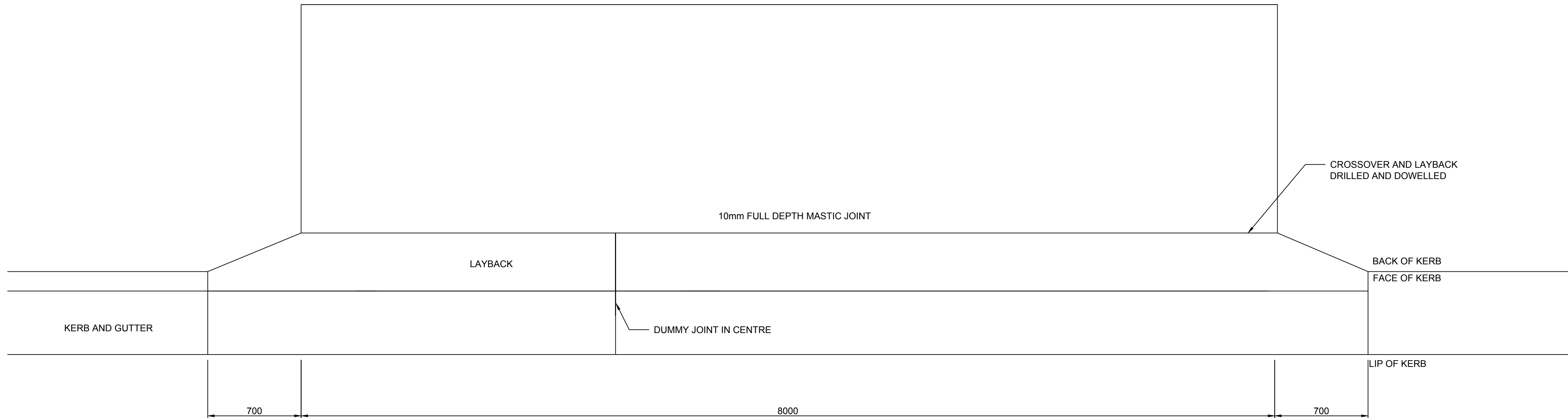
STEP IRON DETAIL
SCALE 1:5



ELEVATION
STEP IRON
PLACEMENT TO PIT WALL
SCALE NTS



SWALE DETAIL
SCALE 1:10

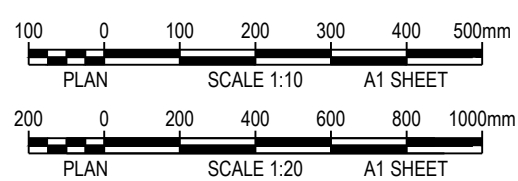


VEHICULAR CROSSING DETAIL
SCALE 1:20

Ver: 1.078001_TB_A1H
Log Name: dtaul
Caf File: T:\578001\Drawings\AutoCAD\Design\Civil 20\03.07 Typical Drainage Details.dwg
Plot Date: 16/10/2019 14:31:21

DO NOT SCALE FROM DRAWINGS. CHECK & VERIFY ALL DIMENSIONS & LEVELS BEFORE COMMENCEMENT OF ANY WORK.

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REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR DA	07/12/18			
2	RE-ISSUE FOR DA	07/06/19			
3	RE-ISSUE FOR DA	16/10/19			

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PROJECT
SENIORS LIVING AND RACF DEVELOPMENT - VILLAGE GREEN PENRITH

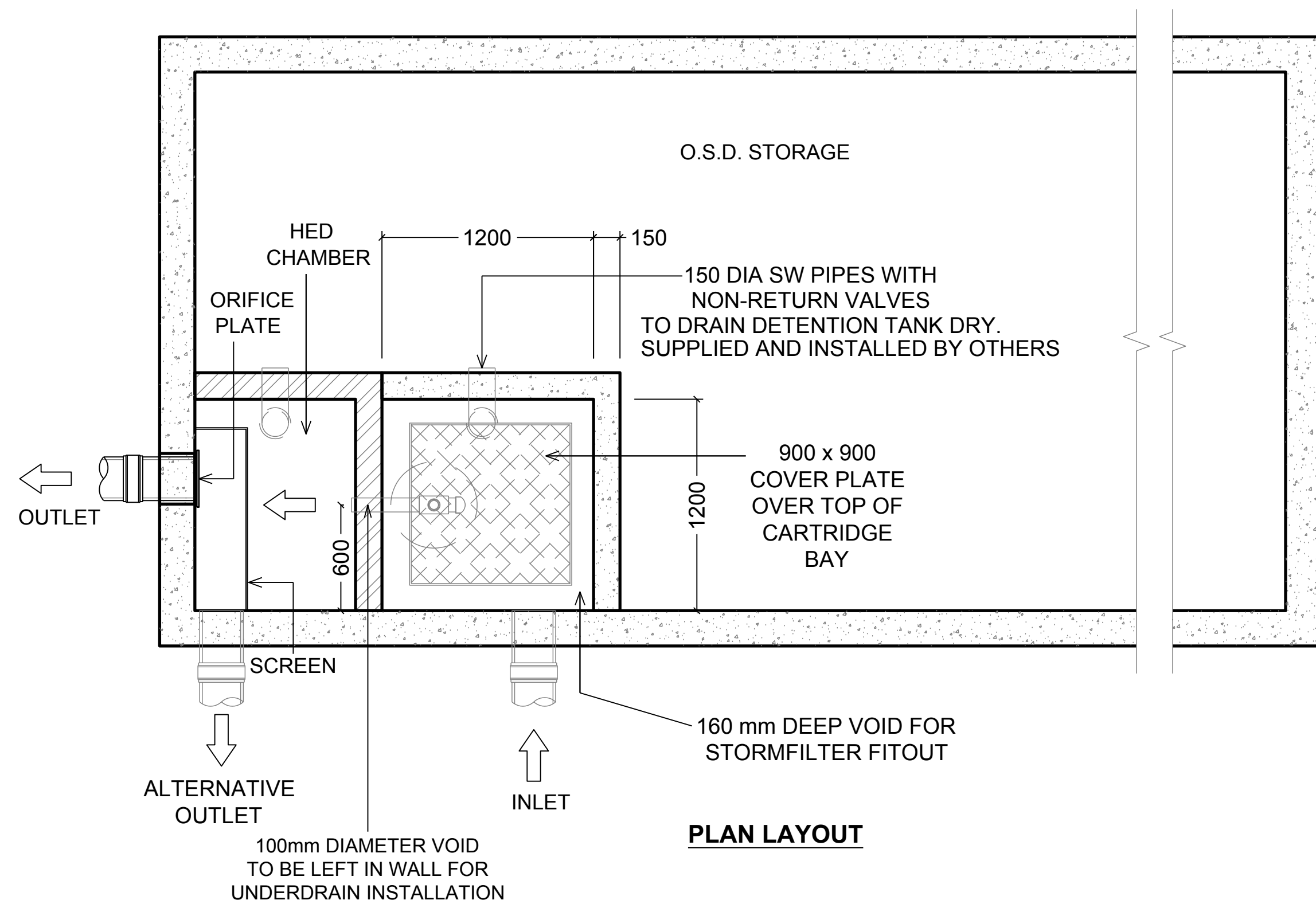
PREPARED BY
Warren Smith & Partners
Level 9, 233 Castlereagh St, Sydney 2000 NSW Australia
02 9299 1312 wsp@warrensmith.com.au
www.warrensmith.com.au ABN 36 300 430 126

CONSULTING ENGINEERS
■ Hydraulic Services ■ Fire Services
■ Civil Services ■ Sydney Water Accredited Water Servicing Co-ordinator and Designer

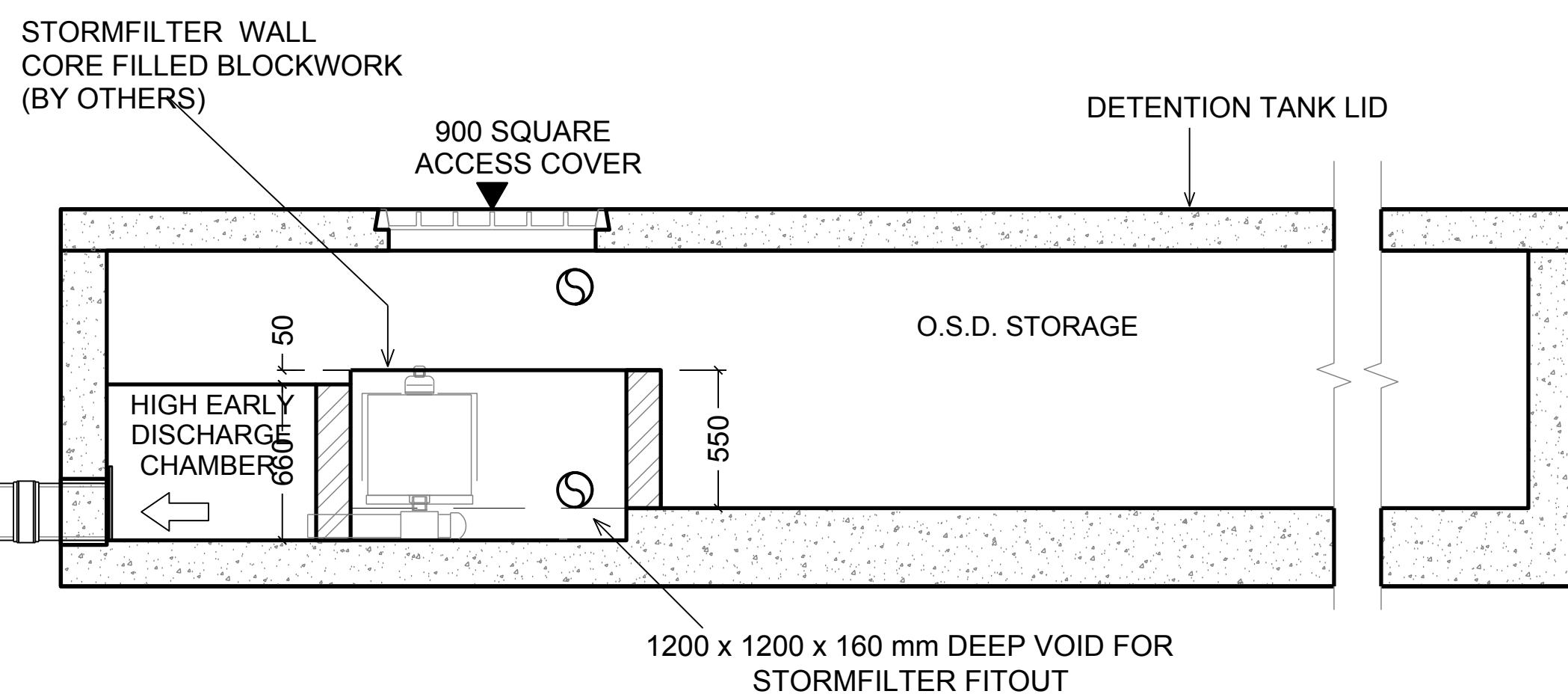
SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TYPICAL DRAINAGE DETAILS				
SCALE AS SHOWN	DRAWN M.Cz.	DESIGNED L.Si.	CHECKED L.Sh.	APPROVED M.C.
JOB No. 5778001		DRAWINGS No. C6.07		ISSUE 3
DATE OCT 2019	STATUS DEVELOPMENT APPLICATION			

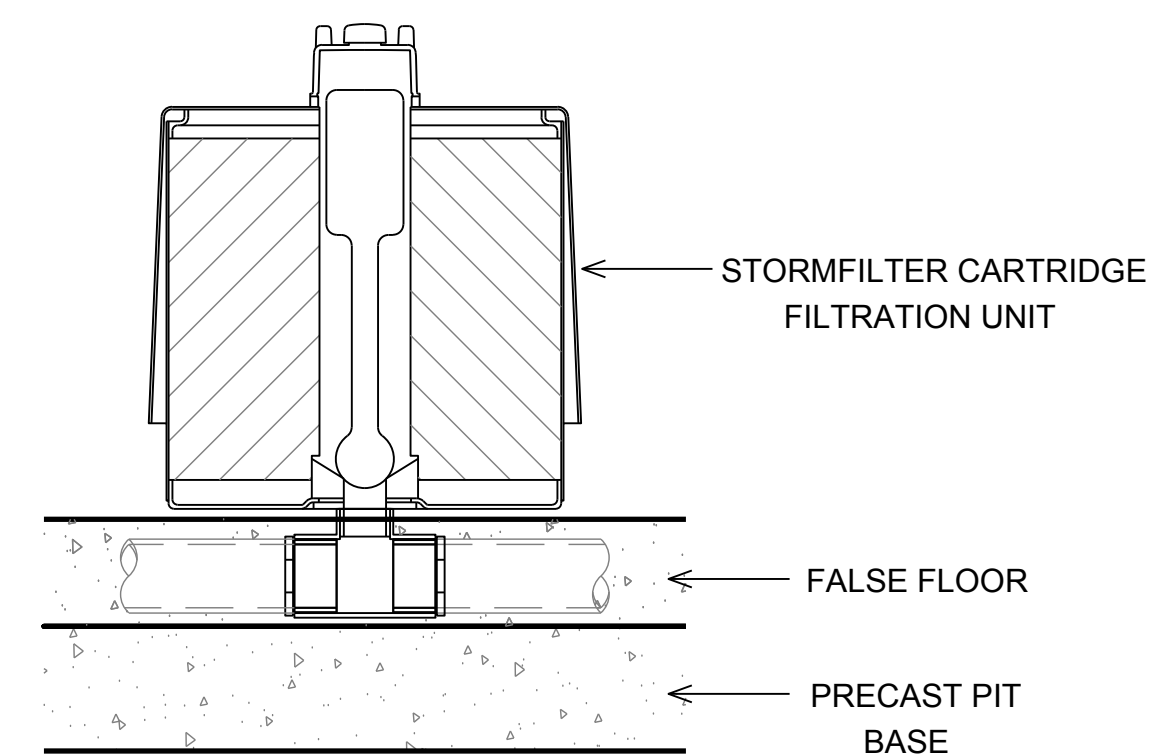
PRELIMINARY - NOT FOR CONSTRUCTION



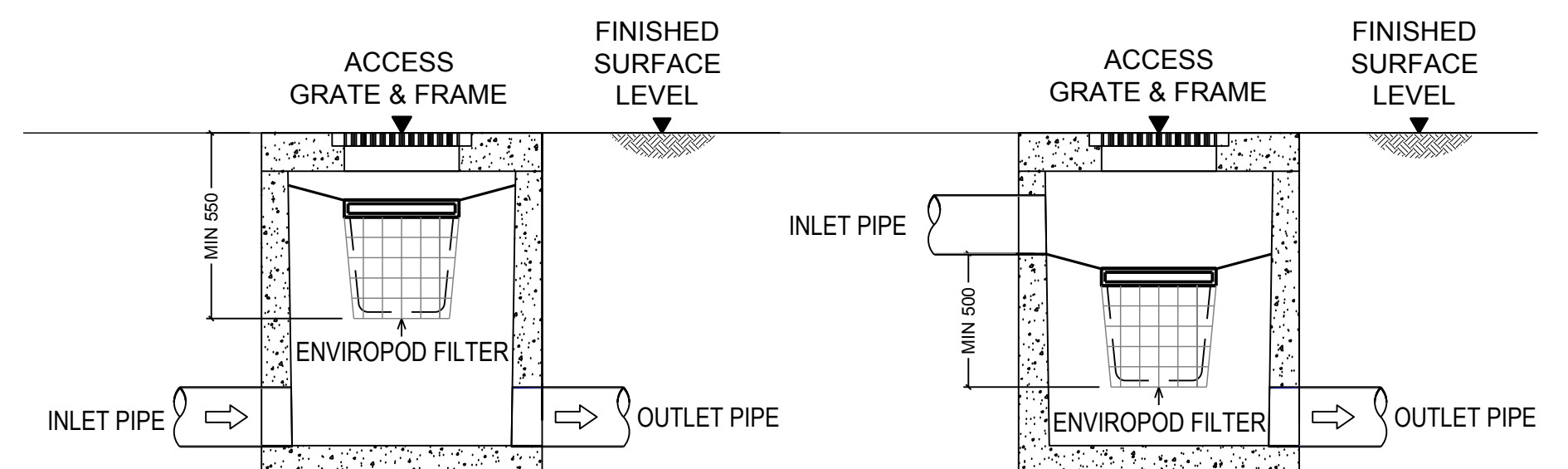
PLAN LAYOUT



SECTION



STORMFILTER CARTRIDGE DETAIL



STANDARD ENVIROPOD CONFIGURATION SECTION

DROP PIPE ENVIROPOD CONFIGURATION SECTION

Note: X: 778001_Tp_A1.dwg
 Path: 1: 5778001 Drawings\AutoCAD\Drawings\Civil 2D\05\08 Stormwater360 Treatment Device Typical Details.dwg
 Plot Date: 16/10/2019 14:32:10
 User Name: darsal
 Login Name: darsal

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NOT TO SCALE

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SHEET SIZE: A1

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR DA	07/12/18			
2	RE-ISSUE FOR DA	07/06/19			
3	RE-ISSUE FOR DA	16/10/19			

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SENIORS LIVING AND RACF DEVELOPMENT - VILLAGE GREEN PENRITH

PREPARED BY

Warren Smith & Partners

Warren Smith & Partners Pty Ltd
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CONSULTING ENGINEERS

Hydraulic Services Fire Services
Civil Services Sydney Water Accredited Water
Servicing Co-ordinator and Designer

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE				
STORMWATER360 TREATMENT DEVICE TYPICAL				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.Cz.	L.Si.	L.Sh.	M.C.
JOB No.		DRAWING No.	ISSUE	
5778001		C6.08	3	
DATE	STATUS			
OCT 2019	DEVELOPMENT APPLICATION			

PRELIMINARY - NOT FOR CONSTRUCTION