

WALLACIA COUNTRY CLUB

CIVIL, STORMWATER & WSUD DEVELOPMENT APPLICATION



LOCALITY AERIAL
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SOURCE : GOOGLE EARTH

DRAWING SCHEDULE		
DRG. No.	DRAWING TITLE	REV.
C1.00 Arrangement and Overview Plans		
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 Client: St Johns Park Bowling Club

CLIENT
St Johns Park
Bowling Club

PROJECT MANAGER

ARCHITECT
Axilarchitects
Architecture | Interior Design | Planning

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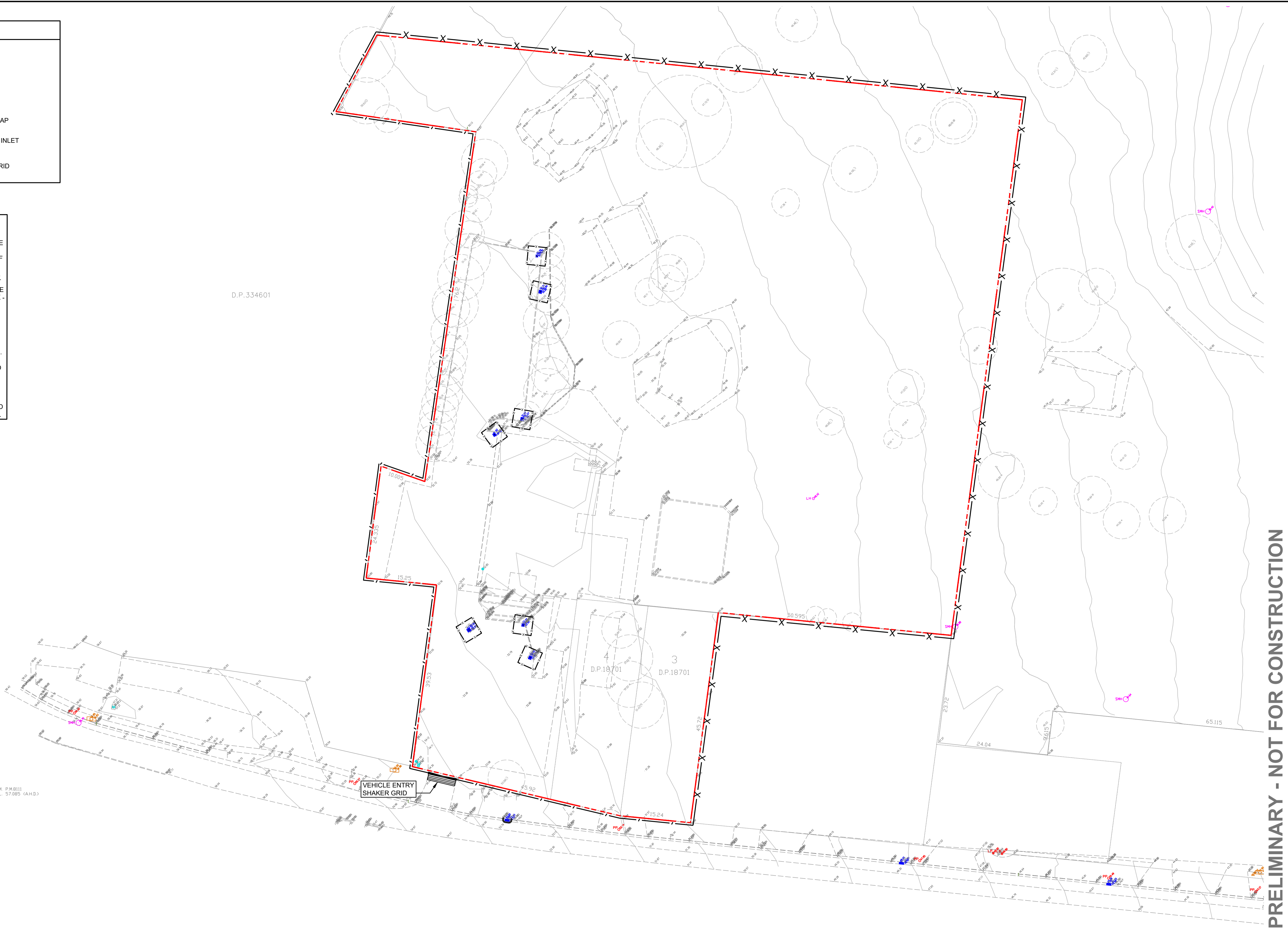
TITLE
COVER SHEET

SCALE AS SHOWN	DRAWN M.Cz.	DESIGNED M.Cz.	CHECKED N.Q.	APPROVED M.C.
JOB No. 6675000	DRAWING No. C1.01		ISSUE 2	
DATE DEC 2019	STATUS DEVELOPMENT APPLICATION			

Plot Date

LEGEND	
	SITE BOUNDARY
	SITE FENCE
	SITE GATE
	SEDIMENT FENCE
	GEOTEXTILE INLET FILTER - DROP INLET SEDIMENT TRAP
	SEDIMENT TRAP FOR KERB INLET - SAND BAGS
	VEHICLE ENTRY SHAKER GRID

- NOTES**
1. GEOTEXTILE INLET FILTER BAGS TO BE FITTED IN ALL STORMWATER GRATED PITS WITHIN THE DEVELOPMENT AREA.
 2. STOCKPILES, IF ANY, ARE TO REMAIN CLEAR OF SITE ACCESS, DRAINS AND PAVED AREAS. HEIGHT OF STOCKPILE SHALL NOT EXCEED 2m.
 3. 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.
 4. THE CONTRACTOR IS RESPONSIBLE FOR THE CORRECT INSTALLATION AND ONGOING MAINTENANCE OF THE CONTROLS. REFER TO DRG C2.02 FOR MAINTENANCE REQUIREMENTS.
 5. 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.

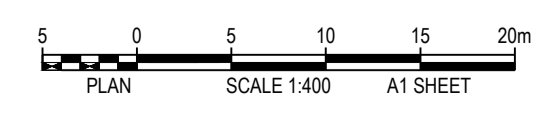
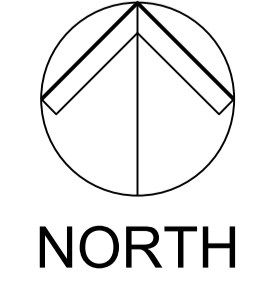


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REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	DRAFT DEVELOPMENT APPLICATION	26/11/19			
2	DEVELOPMENT APPLICATION	06/12/19			

CLIENT **St Johns Park Bowling Club**

PROJECT **WALLACIA COUNTRY CLUB**

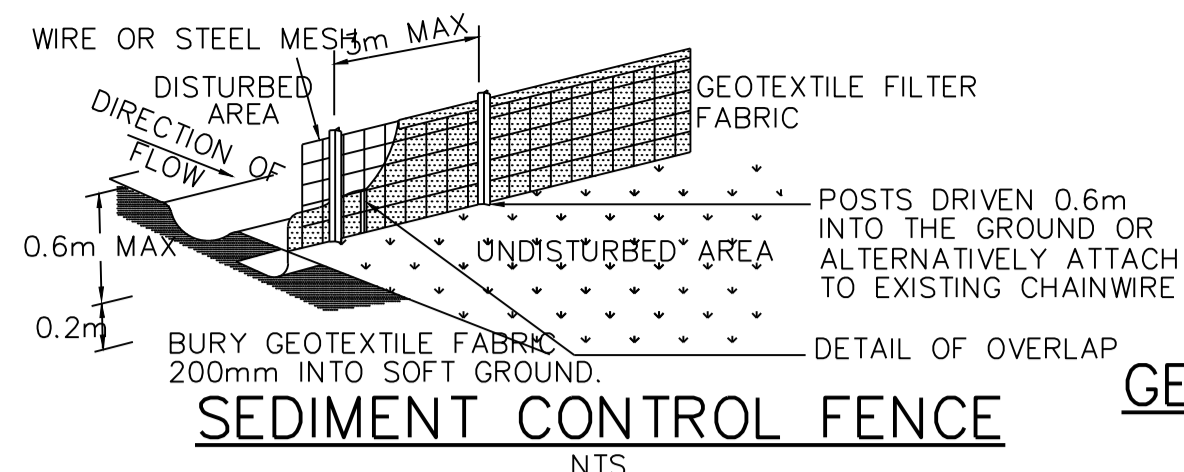
PREPARED BY **Warren Smith & Partners**

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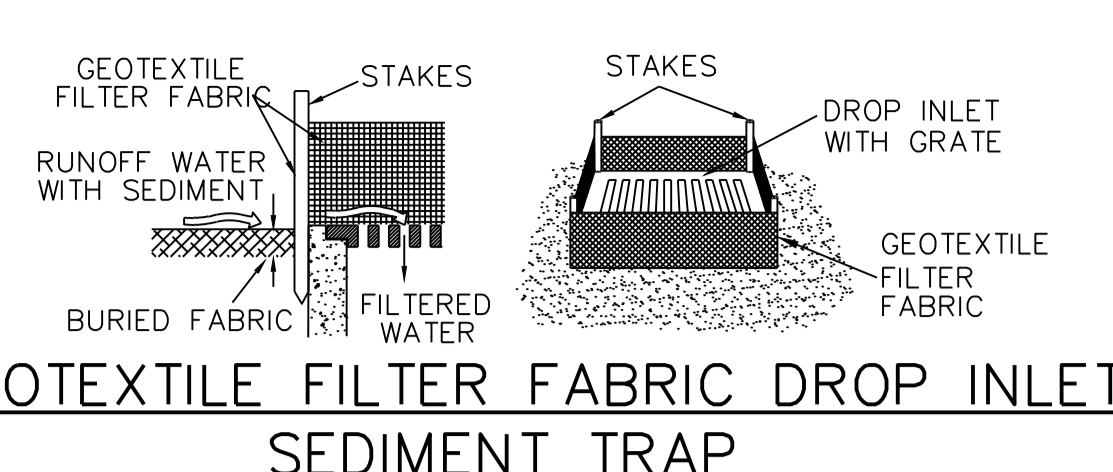
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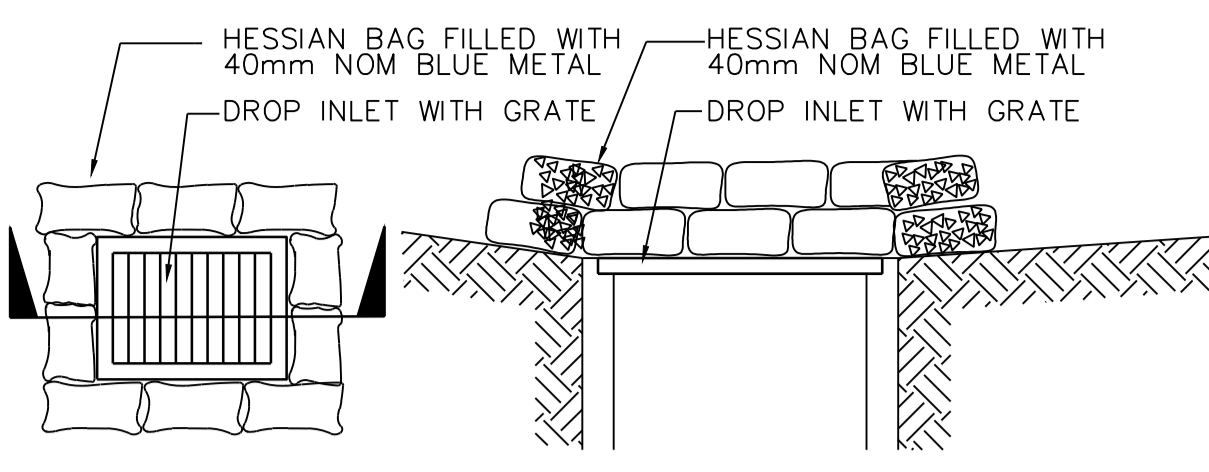
TITLE				
SEDIMENT AND EROSION CONTROL PLAN				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.Cz.	M.Cz.	N.Q.	M.C.
JOB No.	DRAWING No.		ISSUE	
6675000	C2.01		2	
DATE	STATUS			
DEC 2019	DEVELOPMENT APPLICATION			



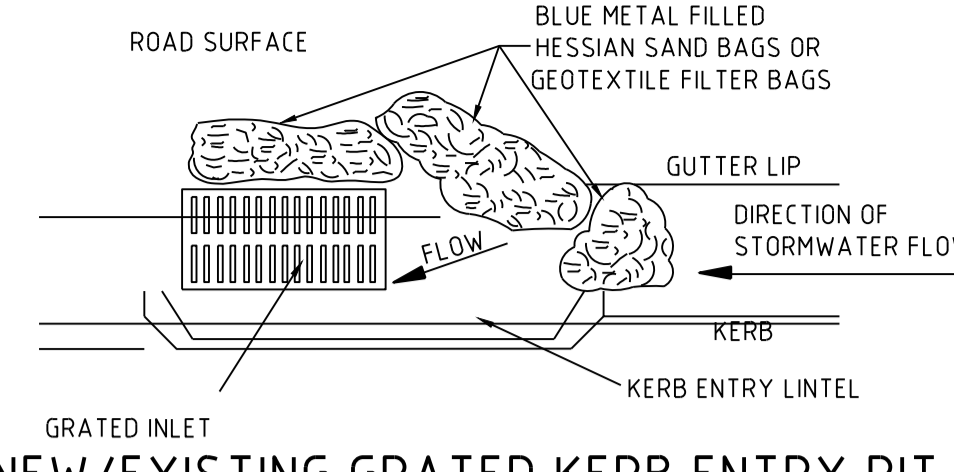
SEDIMENT CONTROL FENCE
NTS



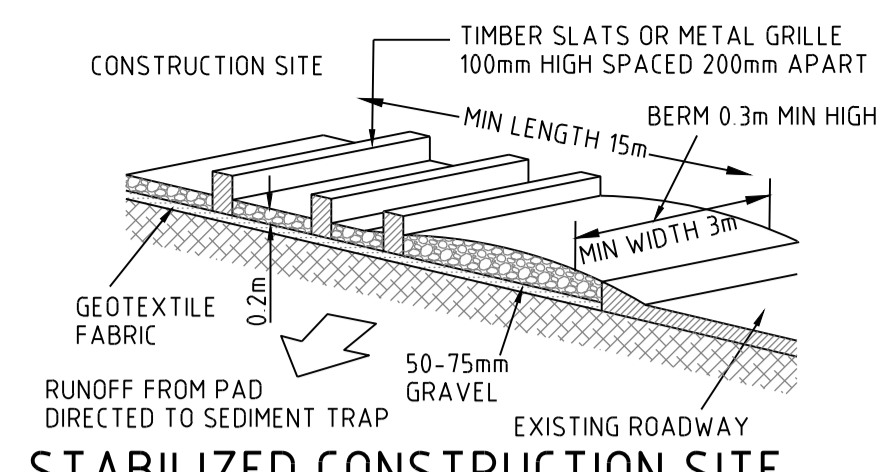
GEOTEXTILE FILTER FABRIC DROP INLET
NTS



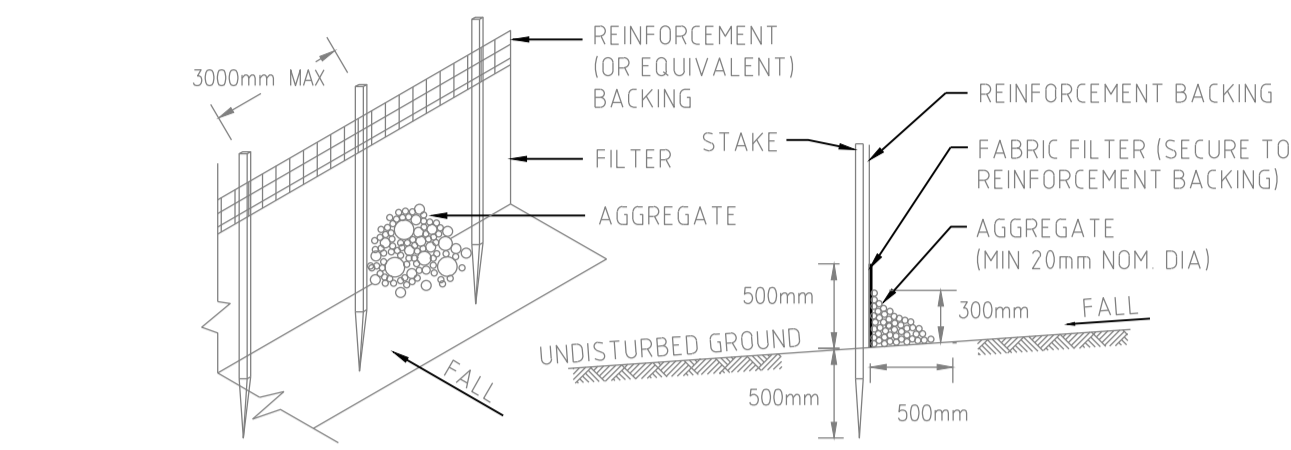
HESSIAN BAG DROP INLET
SEDIMENT TRAP
NTS



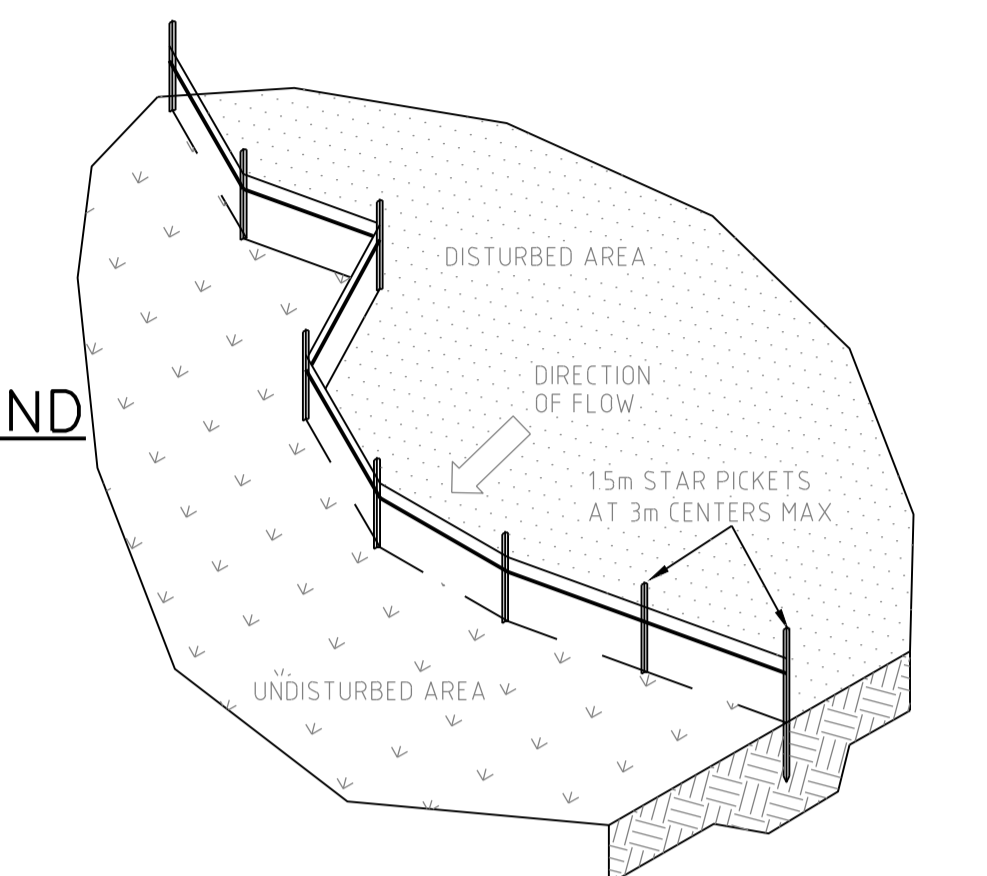
NEW/EXISTING GRATED KERB ENTRY PIT
SEDIMENT CONTROL BARRIER
NTS



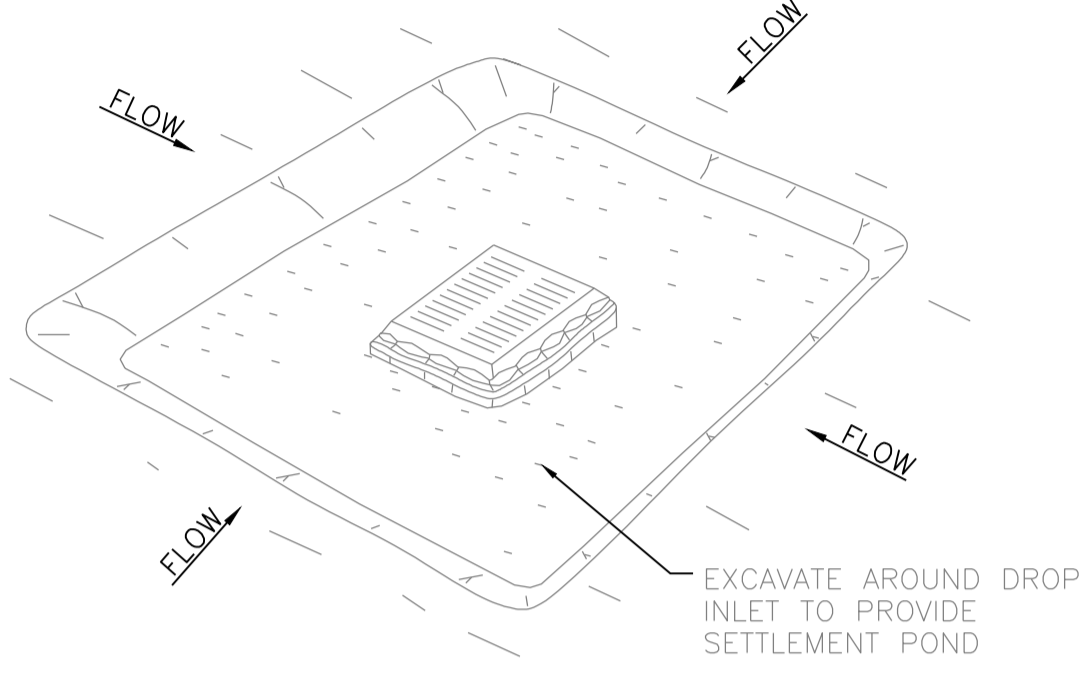
STABILIZED CONSTRUCTION SITE
VEHICLE ENTRY/EXIT
NTS



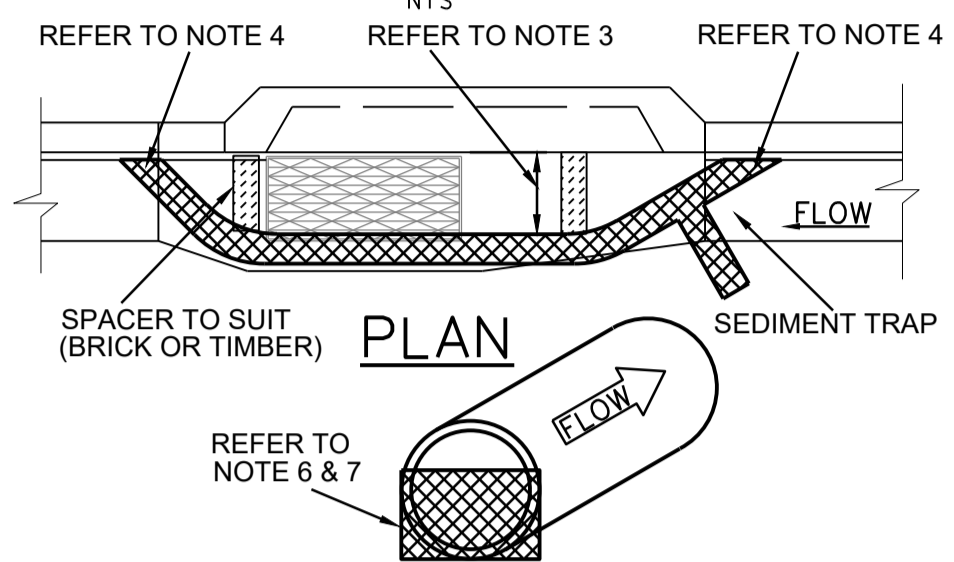
SEDIMENT FENCE DETAIL FOR ROCKY GROUND
NTS



SEDIMENT FENCE LAYOUT PLAN
NTS

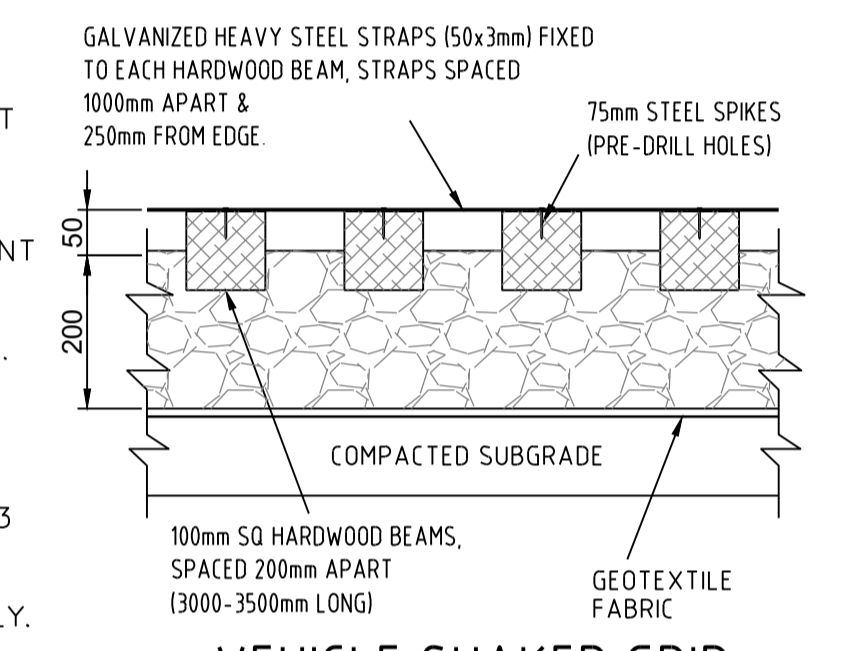


EXCAVATED SEDIMENT TRAP
NTS



GEOTEXTILE FILTER BAGS
SEDIMENT BARRIER FOR PITS & PIPES, NOTES: -

- 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.
 3. ANY UNSEALED ROAD BETWEEN THE DEVICE AND COUNCILS ROADWAY IS TO BE TOPPED WITH 100mm THICK, 40mm NOMINAL SIZE AGGREGATE.
 4. 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.
 5. FENCES SHOULD BE ERRECTED TO ENSURE VEHICLES CAN NOT BYPASS THE STABILIZED ACCESS POINTS, UNLESS COMING FROM A STABILIZED AREA.



VEHICLE SHAKER GRID
NTS

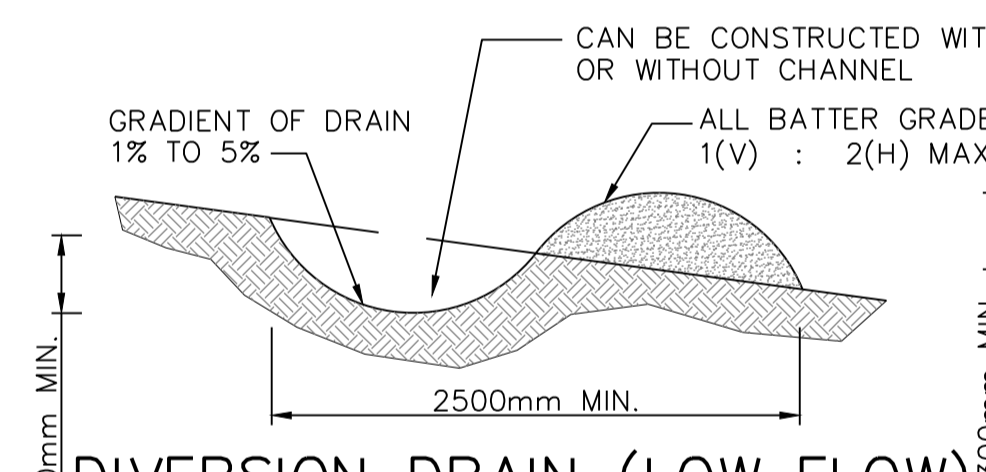
- SITE ENTRY/EXIT CONSTRUCTION NOTES: -**
1. STRIP TOP SOIL & LEVEL SITE. PROVIDE CATCH DRAIN AT SIDES TO DIRECT RUNOFF WATER TO SEDIMENT TRAPS.
 2. COMPACT SUBGRADE AND REMOVE ANY HIGH POINTS.
 3. COVER AREA WITH GEOTEXTILE FABRIC. THIS MAY BE WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST 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 HUMPS IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT TRAP.
 5. 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.
 6. PROVIDE RAMPS AT ENDS AND SIDE OF GRIDS. IF DEPRESSIONS OCCUR IN THE RAMPS DURING USE. ADD ADDITIONAL MATERIAL.

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.
3. THE SEDIMENT FENCES, BALES & TRAPS SHALL BE REGULARLY INSPECTED, ESPECIALLY AFTER RAIN AND KEPT IN GOOD REPAIR AND FUNCTIONING CONDITION AT ALL TIMES.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT SEDIMENT, EROSION & WATER POLLUTION SHALL BE MINIMIZED.
5. THE SEDIMENT TRAPS SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE CONSTRUCTION AREA HAS BEEN PROPERLY STABILIZED.

- 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.
 3. 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.
 4. BACKFILL TRENCH OVER BASE OF FABRIC & COMPACT.
 5. 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.
 6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
 7. 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.
 8. 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.

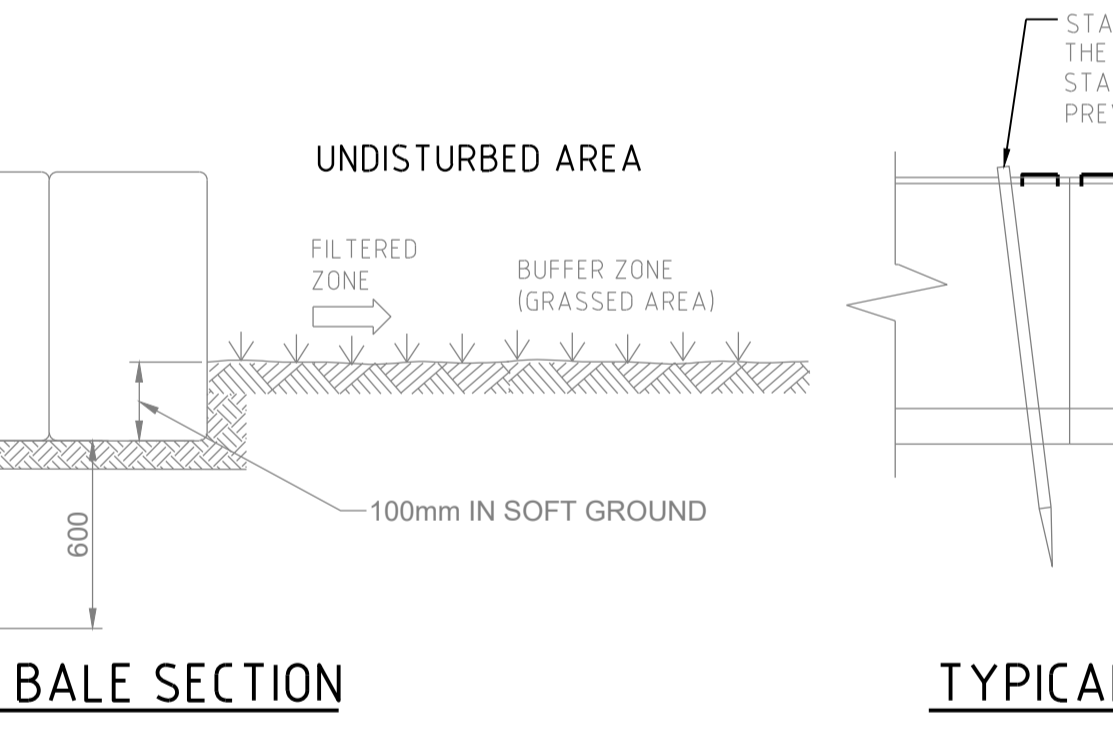
- EXCAVATED SEDIMENT TRAP NOTES: -**
1. REMOVE THE SEDIMENT WHEN IT HAS ACCUMULATED TO HALF THE DESIGN DEPTH OF THE TRAP AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
 2. PROVIDE 50 cu.m/Ha OF SEDIMENT STORAGE VOLUME.
 3. REFER TO THE MAINTENANCE REQUIREMENTS.



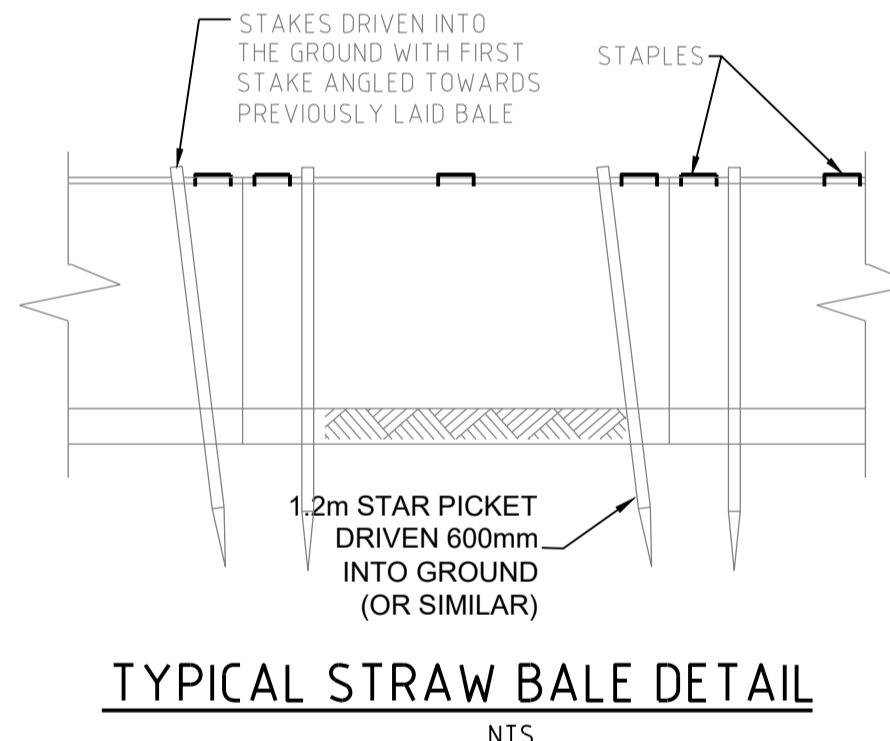
DIVERSION DRAIN (LOW FLOW)
NTS

- 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.

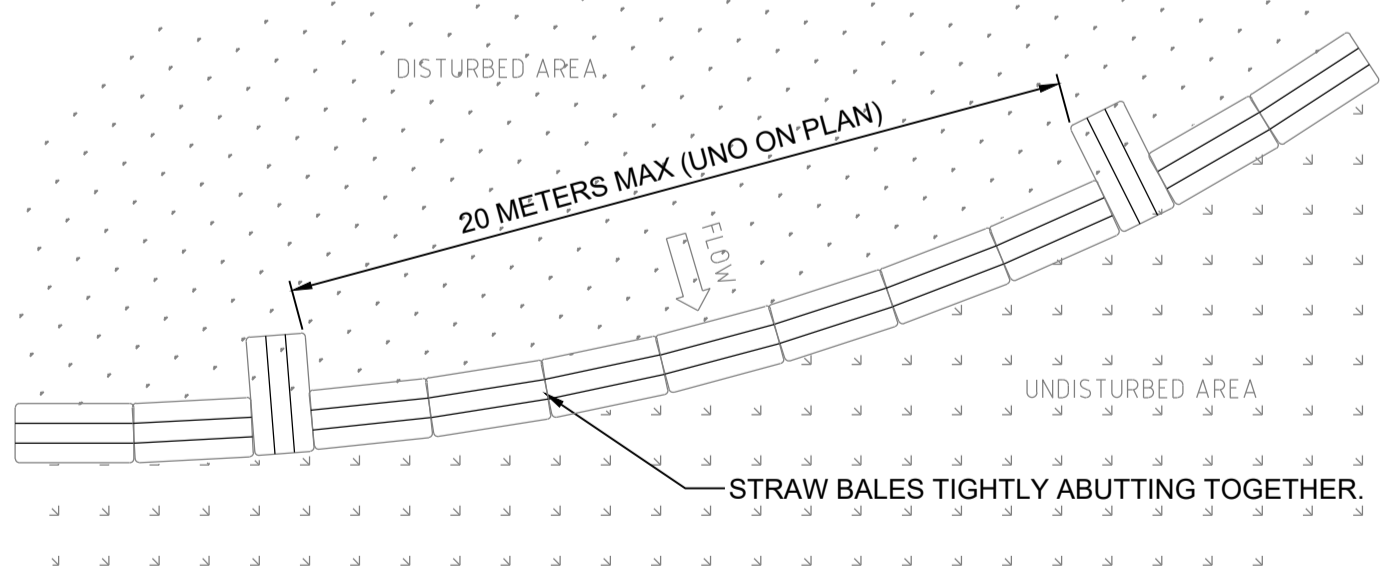
- STRAW BALE NOTES: -**
1. CONSTRUCT STRAW BALE FILTER AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE OR AT THE TOE OF A SLOPE.
 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS TO BE PLACED PARALLEL TO GROUND.
 3. MAXIMUM HEIGHT OF FILTER IS ONE BALE.
 4. ON SOFT MATERIALS, EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS. ANGLE THE FIRST STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE STAKES 600mm INTO THE GROUND AND FLUSH WITH THE TOP OF THE BALES.
 5. 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.
 6. WHERE REQUIRED WRAP GEOTEXTILE FILTER FABRIC AROUND BALES AND STAPLE IN POSITION.



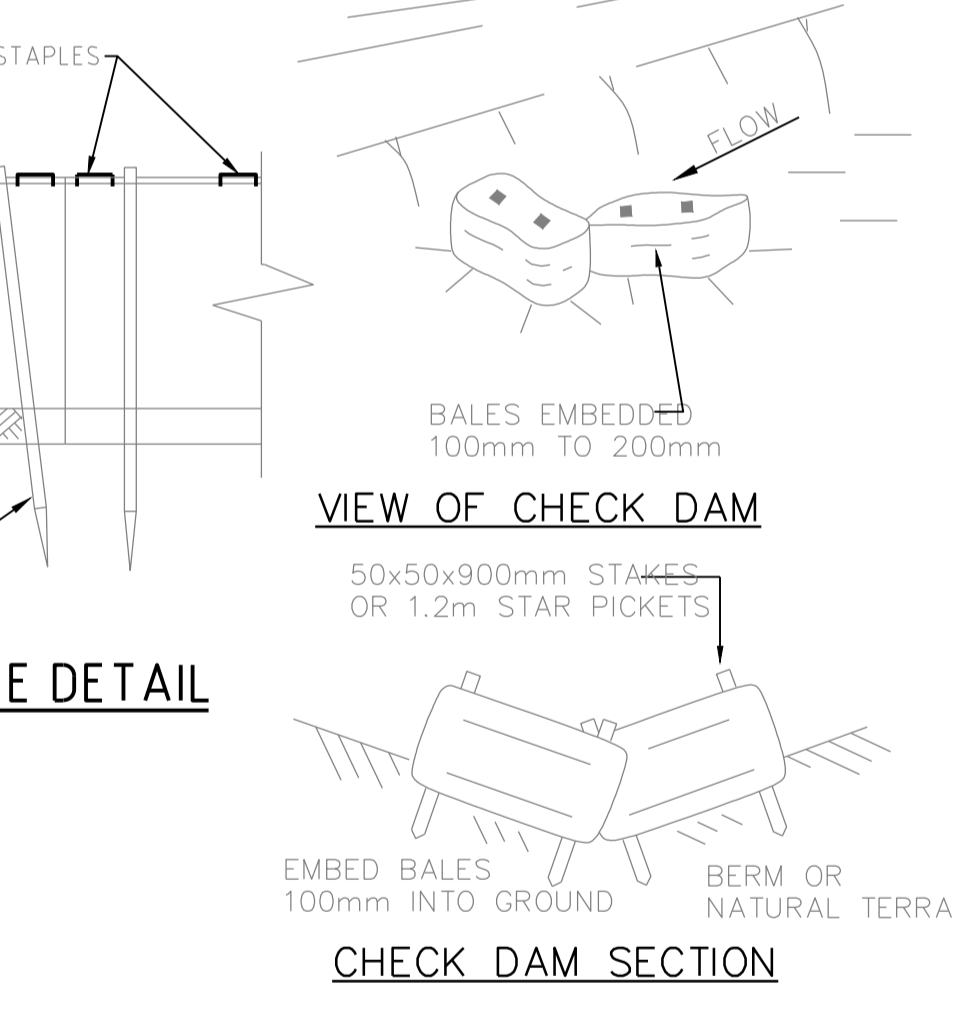
TYPICAL STRAW BALE SECTION
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TYPICAL STRAW BALE DETAIL
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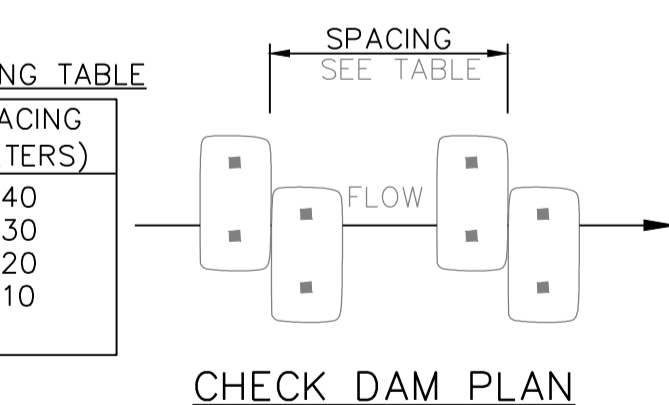
TYPICAL STRAW BALE LAYOUT PLAN
NTS



VIEW OF CHECK DAM
NTS

CHECK DAM SPACING TABLE

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



CHECK DAM PLAN
NTS

STRAW BALE CHECK DAM DETAILS
NTS

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1	DRAFT DEVELOPMENT APPLICATION	26/11/19			
2	DEVELOPMENT APPLICATION	06/12/19			

CLIENT: **St Johns Park Bowling Club**

PROJECT: **WALLACIA COUNTRY CLUB**

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 ■ Hydraulic Services ■ Fire Services
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TITLE: SEDIMENT AND EROSION CONTROL DETAILS				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.Cz.	M.Cz.	N.Q.	M.C.
JOB No.	DRAWING No.		ISSUE	
6675000	C2.02		2	
DATE	STATUS			
DEC 2019	DEVELOPMENT APPLICATION			

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Name	Surface Elev. (m)	Pit Depth (m)	Pit Size and Type	From	To	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Pipe Type	Dia (mm)	No. Pipes
Pipe 1/1	52.78	0.825	900 SQ PIT WITH CLASS C GRATE	Pit 1/1	Pit 2/1	16.53	51.955	51.79	1	uPVC (SN8)	225	1
Pipe 2/1	52.65	0.89	900 SQ PIT WITH CLASS C GRATE	PIT 2/1	Pit 3/1	22.25	51.76	50.835	4.29	uPVC (SN8)	225	1
Pipe 3/1	51.88	1.38	900 SQ PIT WITH CLASS C GRATE	Pit 3/1	Pit 4/1	15.4	50.5	50.65	2.82	uPVC (SN8)	225	1
Pipe 4/1	51.32	1.285	900 SQ PIT WITH CLASS C GRATE	Pit 4/1	Pit 5/1	27.65	50.035	49.758	1	uPVC (SN8)	225	1
Pipe 5/1	50.49	1.19	900 SQ PIT WITH CLASS C GRATE	Pit 5/1	OSD	15.76	49.3	48.5	5.08	uPVC (SN8)	225	1
Pit 1/2	50.7	0.9	900 SQ PIT WITH CLASS C GRATE	Pit 1/2	Pit 2/2	11.9	49.8	49.225	4.83	RCP (CLASS 3)	300	1
Pit 2/2	50.15	0.955	900 SQ PIT WITH CLASS C GRATE	Pit 2/2	PIT 4/3	7.141	49.195	49.095	1.4	RCP (CLASS 3)	300	1
Pit 1/3	52.65	0.825	900 SQ PIT WITH CLASS C GRATE	Pit 1/3	Pit 2/3	11.93	51.825	51.304	4.37	uPVC (SN8)	225	1
Pit 2/3	52.64	1.366	900 SQ PIT WITH CLASS C GRATE	Pit 2/3	Pit 3/3	10.03	51.274	50.15	11.21	uPVC (SN8)	225	1
Pit 3/3	50.9	0.825	900 SQ PIT WITH CLASS D GRATE	Pit 3/3	PIT 4/3	23.08	50.075	49.225	3.68	uPVC (SN8)	225	1
PIT 4/3	50.05	0.955	900 SQ PIT WITH CLASS C GRATE	PIT 4/3	Pit 5/3	29.994	49.095	48.795	1	RCP (CLASS 3)	300	1
Pit 5/3	50.38	1.615	900 SQ PIT WITH CLASS B COVER	Pit 5/3	Pit 6/3	23.215	48.765	48.533	1	RCP (CLASS 3)	300	1
Pit 6/3	50.15	1.647	900 SQ PIT WITH CLASS B COVER	Pit 6/3	Pit 7/3	37.581	48.503	48.157	0.92	RCP (CLASS 3)	300	1
Pit 7/3	49.06	0.933	900 SQ PIT WITH CLASS B COVER	Pit 7/3	Pit 8/3	11.1	48.127	48.016	1	RCP (CLASS 3)	300	1
Pit 8/3	49.1	1.084	900 SQ PIT WITH CLASS B COVER	Pit 8/3	OSD	14.6	48.016	47.9	0.79	RCP (CLASS 3)	300	1
Pit 1/4	50.8		1.20m LONG ACO K200 GRATED TRENCH DRAIN WITH CLASS C HEEL SAFE GRATE	Pit 1/4	Pit 3/1	5.5	50.59	50.53	1.09	uPVC (SN8)	150	1
Pit 1/5	50.8		2.23m LONG ACO K200 GRATED TRENCH DRAIN WITH CLASS C HEEL SAFE GRATE	Pit 1/5	Pit 4/1	5.54	50.589	50.35	4.31	uPVC (SN8)	150	1
Pit 1/6	49.64		3.46m LONG ACO K200 GRATED TRENCH DRAIN WITH CLASS C HEEL SAFE GRATE	Pit 1/6	Pit 5/1	8.48	49.42	49.335	1	uPVC (SN8)	150	1
Pit 1/7	49.7	0.855	900 SQ PIT WITH CLASS C GRATE	Pit 1/7	OSD	12.634	48.845	48.4	3.52	uPVC (SN8)	225	1
Pit 1/8	49.15	0.9	900 SQ PIT WITH CLASS C GRATE	Pit 1/8	OSD	4.76	48.25	48.1	3.15	uPVC (SN8)	225	1

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CONSULTING ENGINEERS

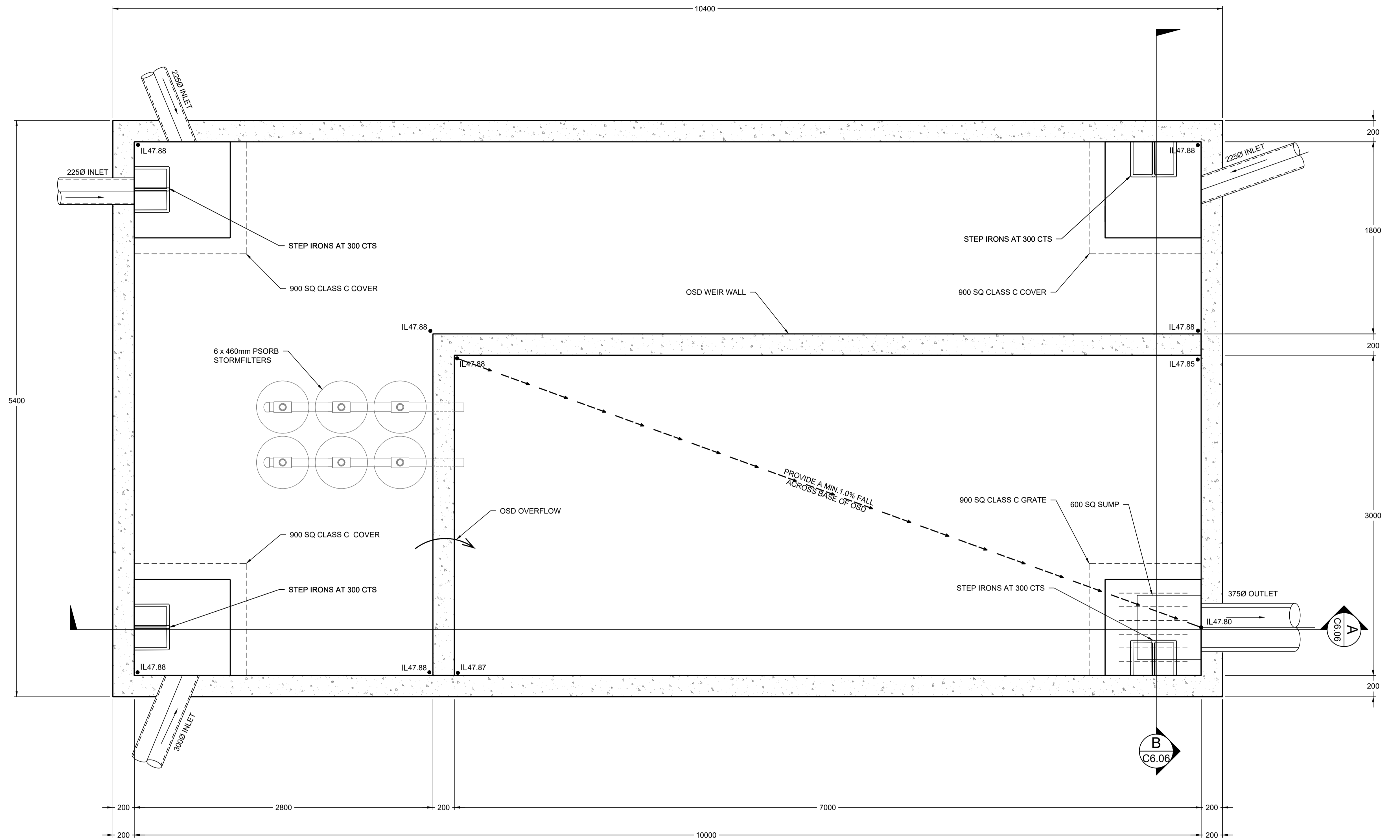
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SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE

PIT SCHEDULE

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.Cz.	M.Cz.	N.Q.	M.C.
JOB No.	DRAWING No.		ISSUE	
6675000	C6.04		2	
DATE	STATUS			
DEC 2019	DEVELOPMENT APPLICATION			



OSD TANK 1 PLAN
SCALE: 1:20

PRELIMINARY - NOT FOR CONSTRUCTION

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 Title: OSD Tank 1 Plan & Sections.dwg

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REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	DRAFT DEVELOPMENT APPLICATION	26/11/19			
2	DEVELOPMENT APPLICATION	06/12/19			

CLIENT

 PROJECT
WALLACIA COUNTRY CLUB

PREPARED BY

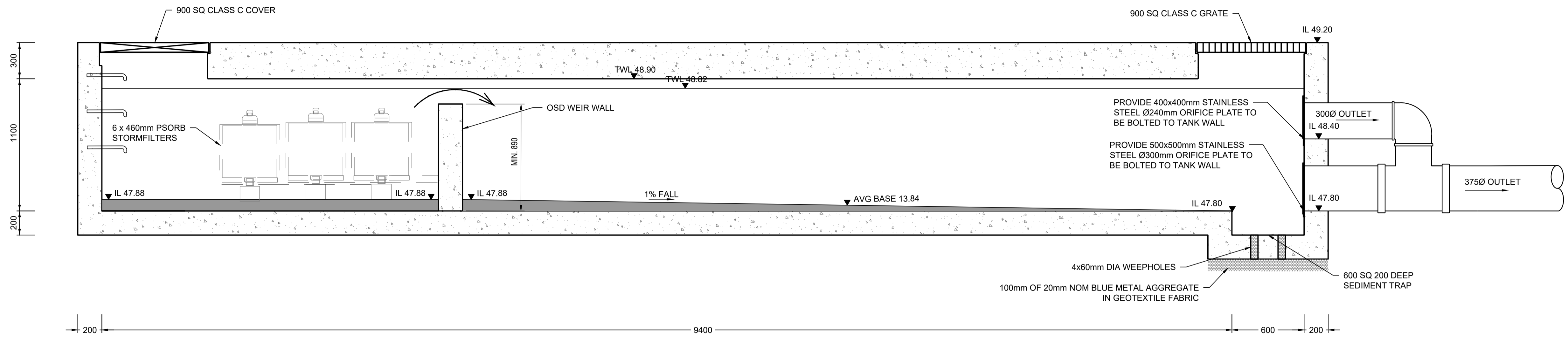
 Warren Smith & Partners Pty Ltd
 Level 9, 233 Castlereagh St, Sydney 2000 NSW Australia
 02 9299 1312 wsp@warrensmith.com.au
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CONSULTING ENGINEERS
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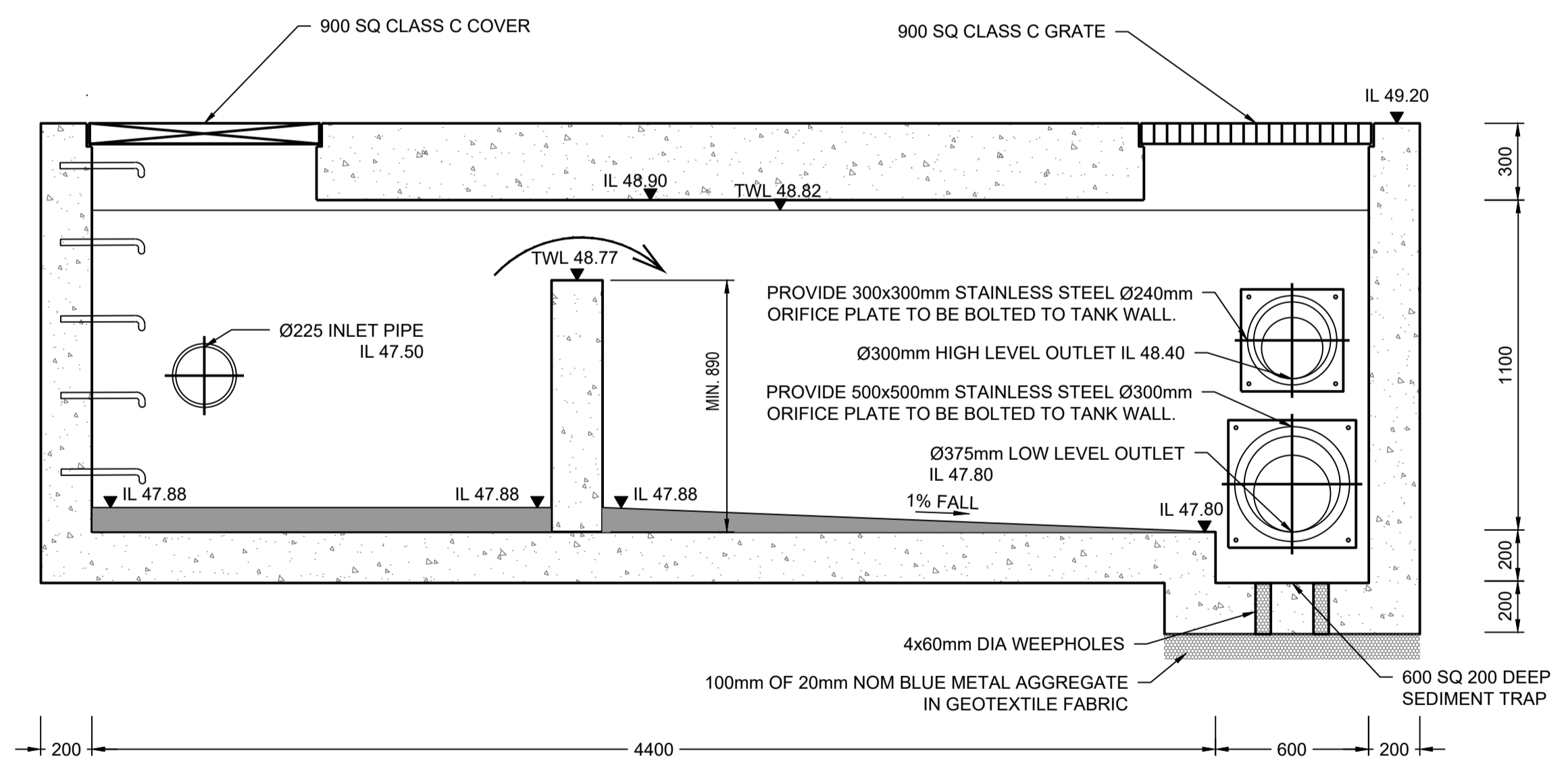
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TITLE
ON SITE DETENTION (OSD) TANK PLAN

SCALE AS SHOWN	DRAWN M.Cz.	DESIGNED M.Cz.	CHECKED N.Q.	APPROVED M.C.
JOB No. 6675000	DRAWING No. C6.05		ISSUE 2	
DATE DEC 2019	STATUS DEVELOPMENT APPLICATION			



SECTION A
SCALE: 1:20
C6.05



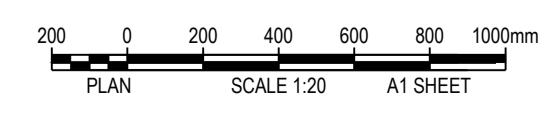
SECTION B
SCALE: 1:20
C6.05

PRELIMINARY - NOT FOR CONSTRUCTION

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User: x.429200018_A.H
Login Name: mcarron
Print Date: 06/12/2019 16:44:43
Version: 1, Version Date: 17/12/2019

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REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	DRAFT DEVELOPMENT APPLICATION	26/11/19			
2	DEVELOPMENT APPLICATION	06/12/19			

CLIENT **St Johns Park Bowling Club**

PROJECT **WALLACIA COUNTRY CLUB**

PREPARED BY **Warren Smith & Partners**

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TITLE				
ON SITE DETENTION (OSD) TANK SECTIONS				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.Cz.	M.Cz.	N.Q.	M.C.
JOB No.	DRAWING No.		ISSUE	
6675000	C6.06		2	
DATE	STATUS			
DEC 2019	DEVELOPMENT APPLICATION			

