


- LEGEND:**
- SPORT COLORS:**
- GREEN FIELDTURF
RGF XM7 60-10.5
 - SOCCER
PANTONE COLOR NO. WHITE
 - HALF SIZE SOCCER
COLOR NAME : REFLEX BLUE
PANTONE COLOR NUMBER RFXC

APPROVED: TURFONE PTY LTD

DON VARY
DATE :

- FIELD LAYOUT NOTES (SPORTS ARE IN ORDERS OF DOMINANCE):**
1. SOCCER MARKINGS ARE 10cm WHITE FIFA STANDARDS.
 2. HALF SIZE SOCCER MARKINGS ARE 7.5cm REFLEX BLUE.
- ALL DIMENSIONS TO BE VERIFIED BEFORE ANY CONSTRUCTION BEGINS.

Drawing no. LD-01		Date : 21 MAY 2021	
Rev	Date	Description	Check
0	21 MAY 2021	TENDER	DV
A	21 MAY 2021	TENDER	DV
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Drawn by : DW		 AUSTRALIAN MADE	
Checked by : IT			



AUSTRALIA

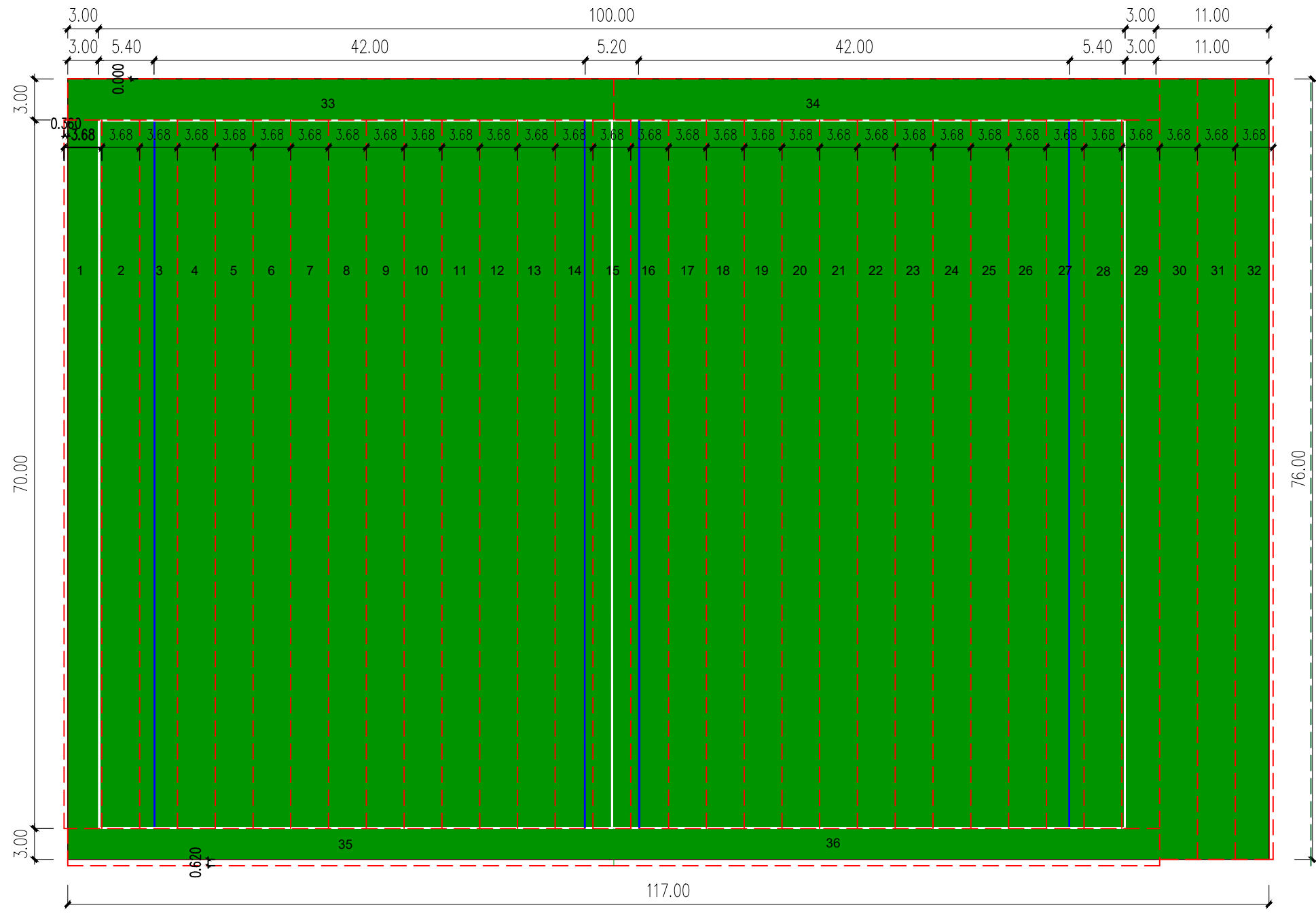
PRODUCT : RGF XM7 60-10.5

FIELD LAYOUT PLAN

FOR NORMAN GRIFFITHS OVAL

Scale : 1:500 (A3 Size)

Notes :
Colours portrayed on this drawing are not necessarily representative of the actual colours of the synthetic turf.

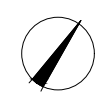


INSTALLATIONS NOTES

1. ROLLS (SEAMS) ARE SHOWN IN **RED DASHED LINES**.
2. FIELD EDGE AND SPORTS LINES ARE SHOWN IN CONTINUOUS LINES.
3. COLOURS PORTRAYED ON THIS DRAWING ARE NOT NECESSARILY REPRESENTATIVE OF THE ACTUAL COLOURS OF THE SYNTHETIC TURF.

APPROVED: TURFONE PTY LTD

 DON VARY
 DATE :

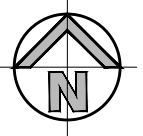


**FIELDS ROLL LAYOUT PLAN
 FOR NORMAN GRIFFITH OVAL**



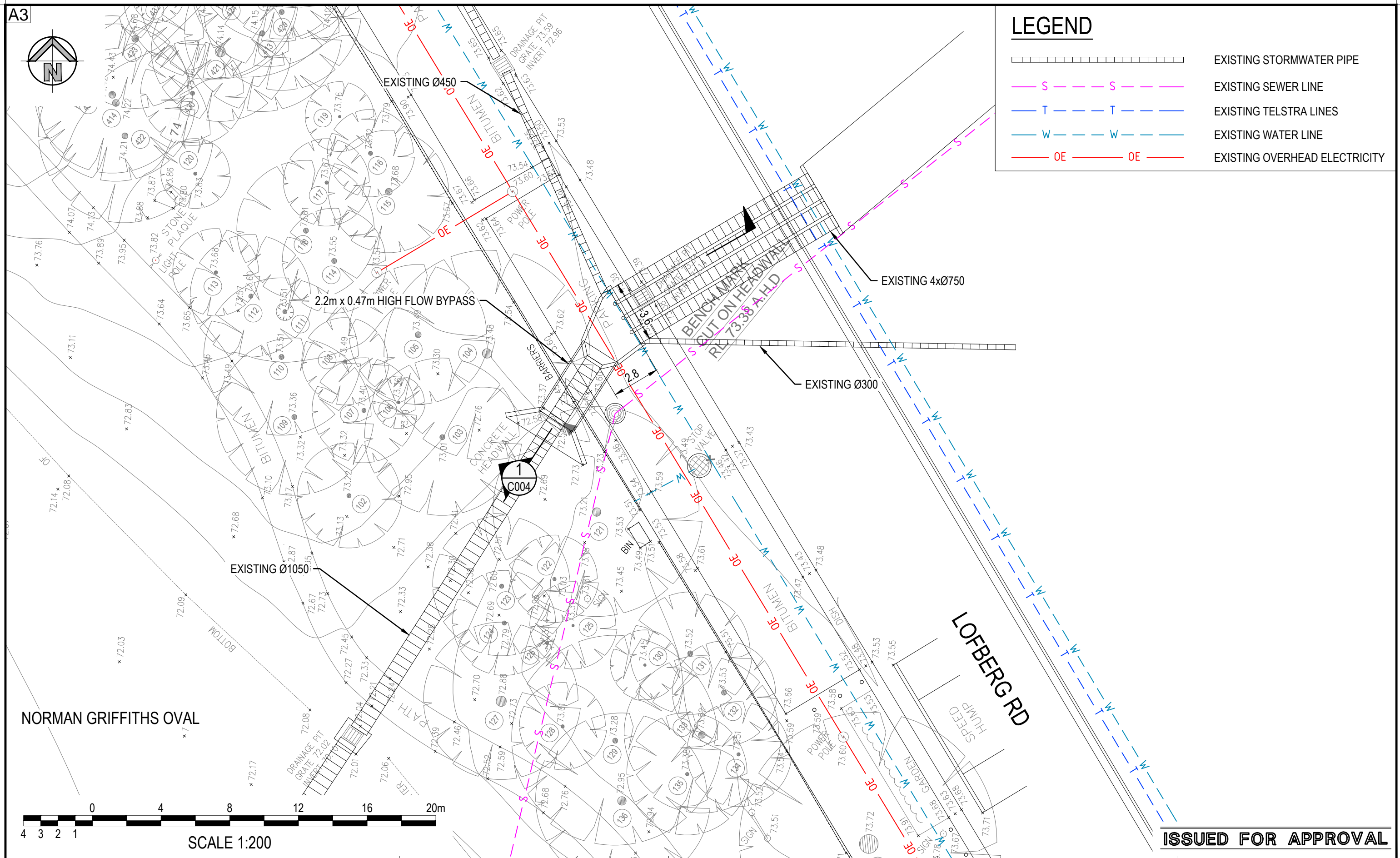
D. W.	
D. V.	
SCALE:	1 : 500 (A3 SIZE)
FIELD AREA:	8892 m ²
TURF MANUFD	9132 m ²
EXTRA TURF :	2.7% (INCLUDED INLAYS)

A3



LEGEND

	EXISTING STORMWATER PIPE
	EXISTING SEWER LINE
	EXISTING TELSTRA LINES
	EXISTING WATER LINE
	EXISTING OVERHEAD ELECTRICITY



NORMAN GRIFFITHS OVAL



ISSUED FOR APPROVAL

02	ISSUED FOR APPROVAL	Aug 2022
01	ISSUED FOR CONCEPT	Oct 2021
REVISION	AMENDMENT	DATE


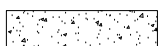
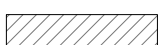
Client TURFONE
Surveyor N/A
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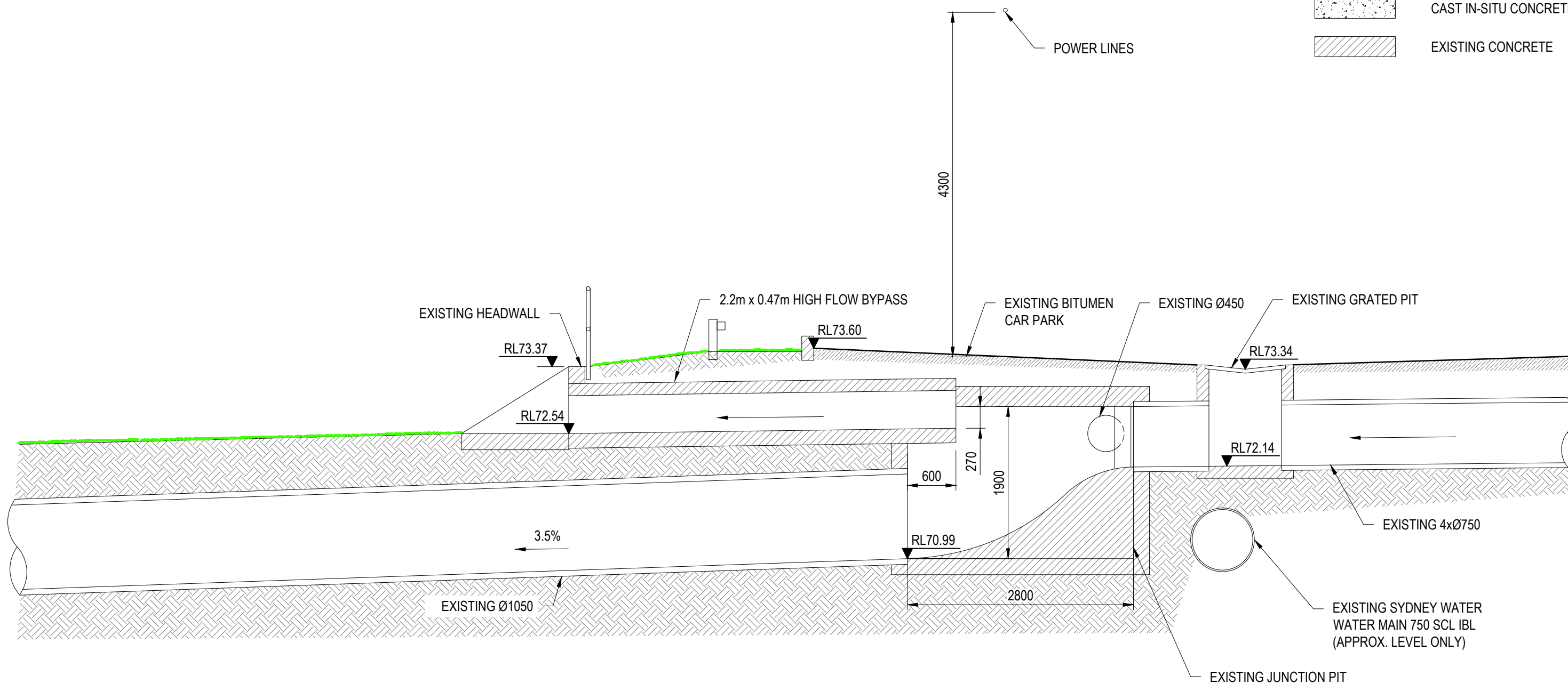
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Project GPT DESIGN & CONSTRUCTION LOFBERG RD, WEST PYMBLE
Title EXISTING PLAN

Drawn D.Tran	Designed O.Bentham	Date Oct 2021
Checked M.Powell	Approved M.Powell	Scale 1:200
Drawing number. 21N74_SK_C003		Revision 02

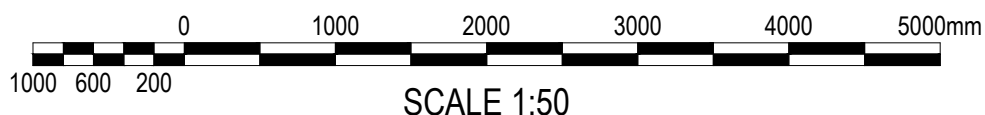
LEGEND

-  PRECAST CONCRETE
-  CAST IN-SITU CONCRETE
-  EXISTING CONCRETE



SECTION 1
SCALE: 1:50






C003

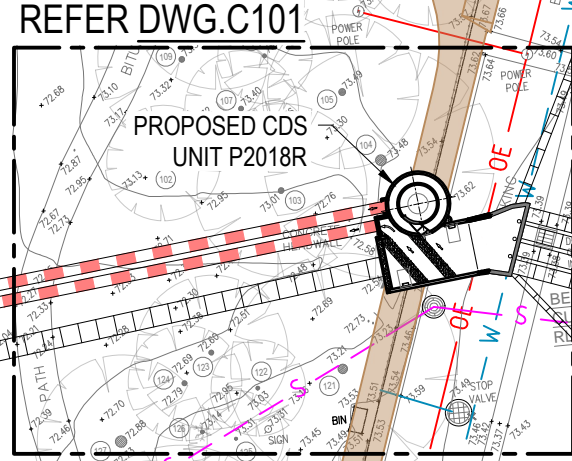
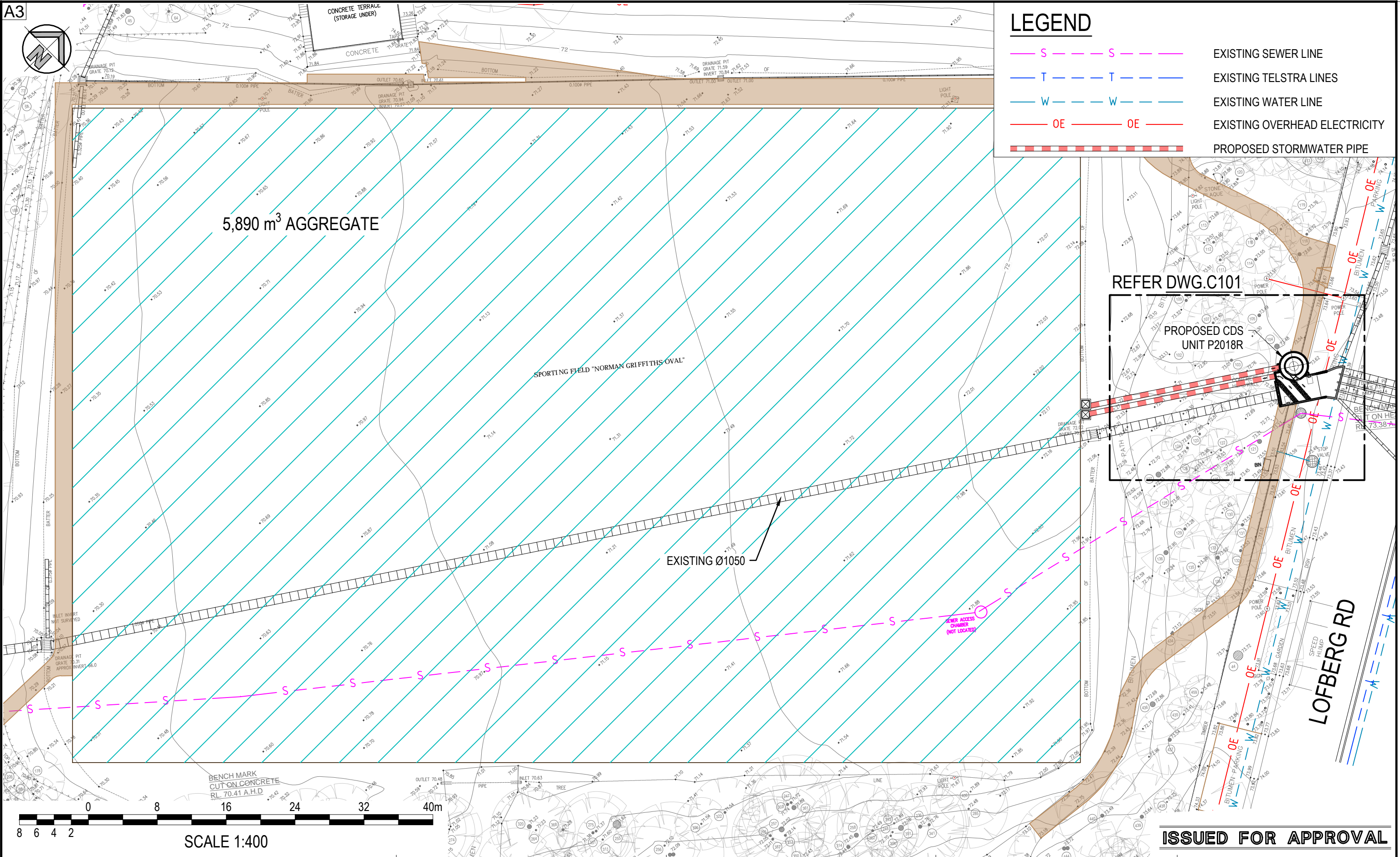


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			Client TURFONE	 optimal stormwater SUITE 2.01, 828 PACIFIC HIGHWAY GORDON, NSW 2072 Telephone : +61 2 9417 8400 Fax : +61 2 9417 8337 www.optimalstormwater.com.au	Project GPT DESIGN & CONSTRUCTION LOFBERG RD, WEST PYMBLE	Drawn D.Tran	Designed O.Bentham	Date Oct 2021
			Surveyor N/A		Title EXISTING SECTION	Checked M.Powell	Approved M.Powell	Scale 1:50
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01	ISSUED FOR CONCEPT	Oct 2021			21N74_SK_C004		02	
REVISION	AMENDMENT	DATE						

LEGEND

-  EXISTING SEWER LINE
-  EXISTING TELSTRA LINES
-  EXISTING WATER LINE
-  EXISTING OVERHEAD ELECTRICITY
-  PROPOSED STORMWATER PIPE



ISSUED FOR APPROVAL

07	ISSUED FOR APPROVAL	Aug 2022
06	ISSUED FOR CONCEPT	Jul 2022
05	ISSUED FOR CONCEPT	Feb 2022
04	ISSUED FOR CONCEPT	Dec 2021
03	ISSUED FOR CONCEPT	Nov 2021
REVISION	AMENDMENT	DATE

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Surveyor	N/A
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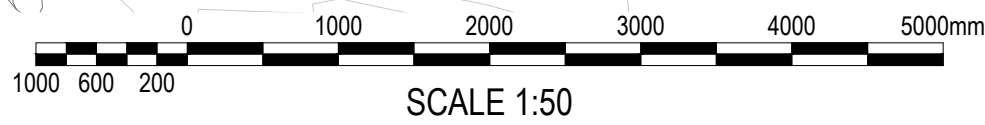
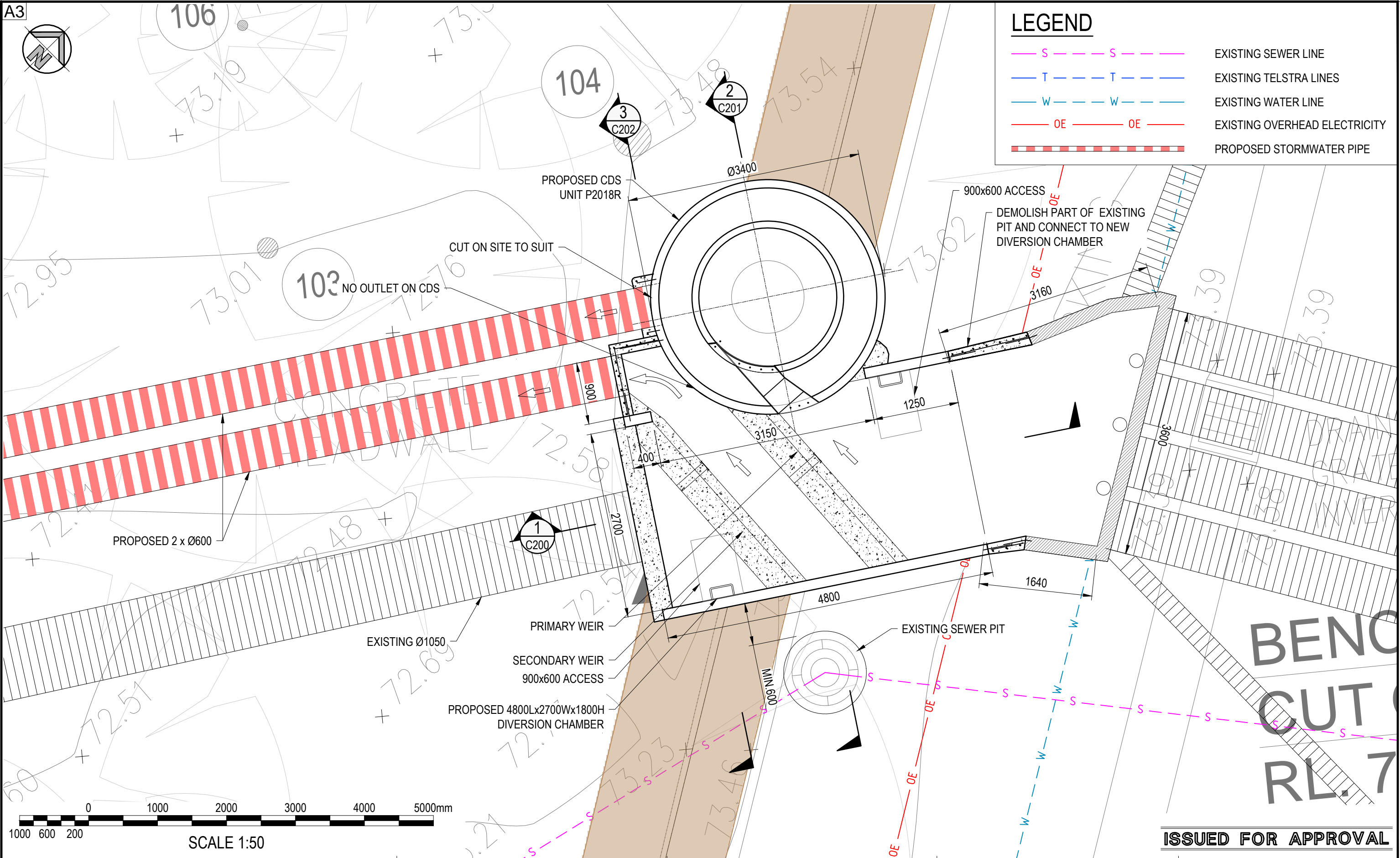
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Project	GPT DESIGN & CONSTRUCTION LOFBERG RD, WEST PYMBLE
Title	GENERAL ARRANGEMENT

Drawn	D.Tran	Designed	O.Bentham	Date	Oct 2021
Checked	M.Powell	Approved	M.Powell	Scale	1:400
Drawing number.	21N74_SK_C100			Revision	07

LEGEND

- S --- S --- S EXISTING SEWER LINE
- T --- T --- T EXISTING TELSTRA LINES
- W --- W --- W EXISTING WATER LINE
- OE --- OE --- OE EXISTING OVERHEAD ELECTRICITY
- PROPOSED STORMWATER PIPE



REVISION	AMENDMENT	DATE
04	ISSUED FOR APPROVAL	Aug 2022
03	ISSUED FOR CONCEPT	Jul 2022
02	ISSUED FOR CONCEPT	Feb 2022
01	ISSUED FOR CONCEPT	Dec 2021

Client TURFONE
Surveyor N/A
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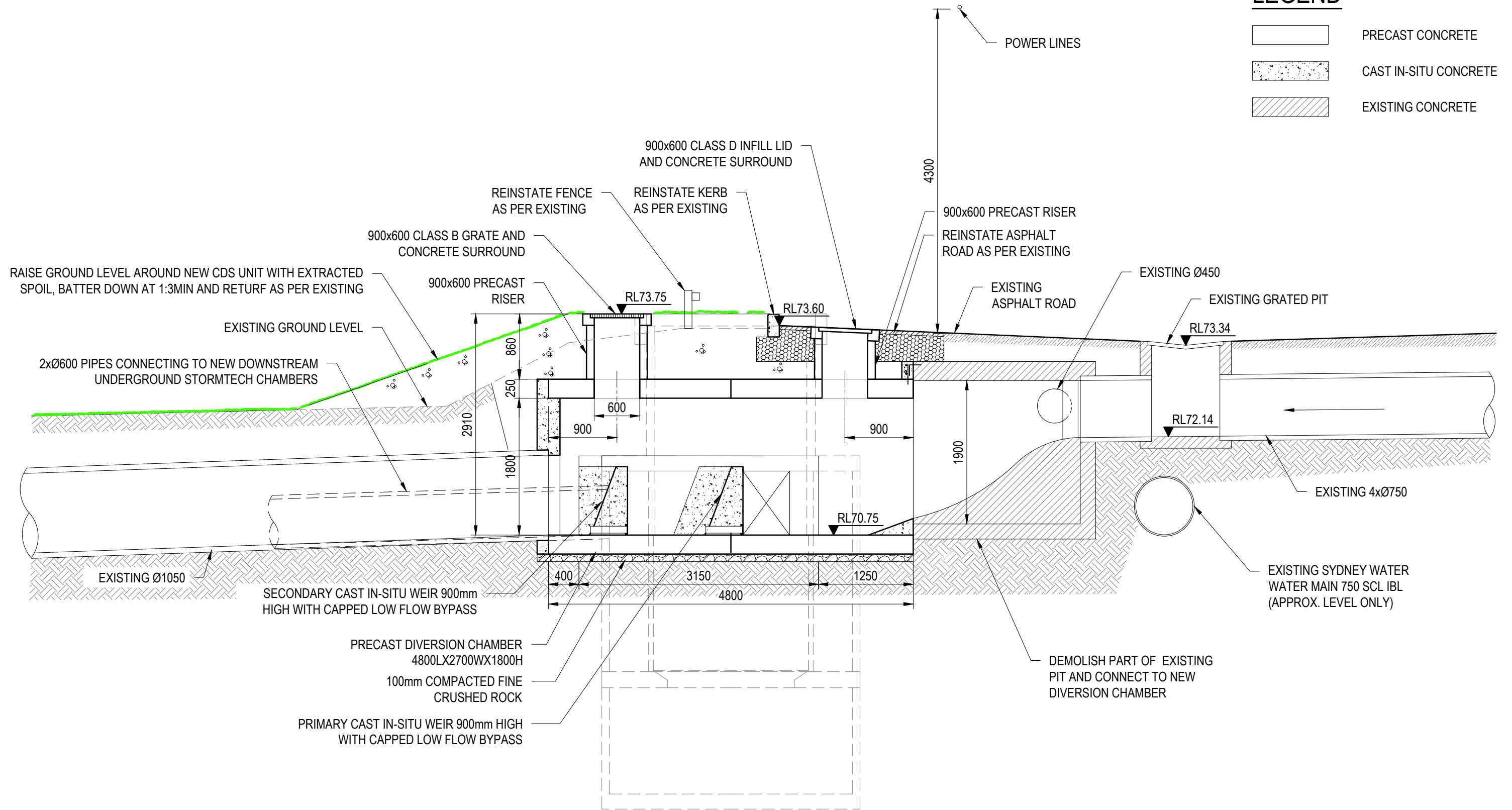
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Project GPT DESIGN & CONSTRUCTION LOFBERG RD, WEST PYMBLE
Title DETAIL PLAN

Drawn D.Tran	Designed O.Bentham	Date Oct 2021
Checked M.Powell	Approved M.Powell	Scale 1:50
Drawing number. 21N74_SK_C101		Revision 04

LEGEND

	PRECAST CONCRETE
	CAST IN-SITU CONCRETE
	EXISTING CONCRETE



SECTION 1
SCALE: 1:50

ISSUED FOR APPROVAL

REVISION	AMENDMENT	DATE
05	ISSUED FOR APPROVAL	Feb 2023
04	ISSUED FOR APPROVAL	Aug 2022
03	ISSUED FOR CONCEPT	Jul 2022
02	ISSUED FOR CONCEPT	Feb 2022
01	ISSUED FOR CONCEPT	Dec 2021

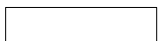
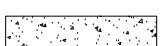

Client	TURFONE
Surveyor	N/A
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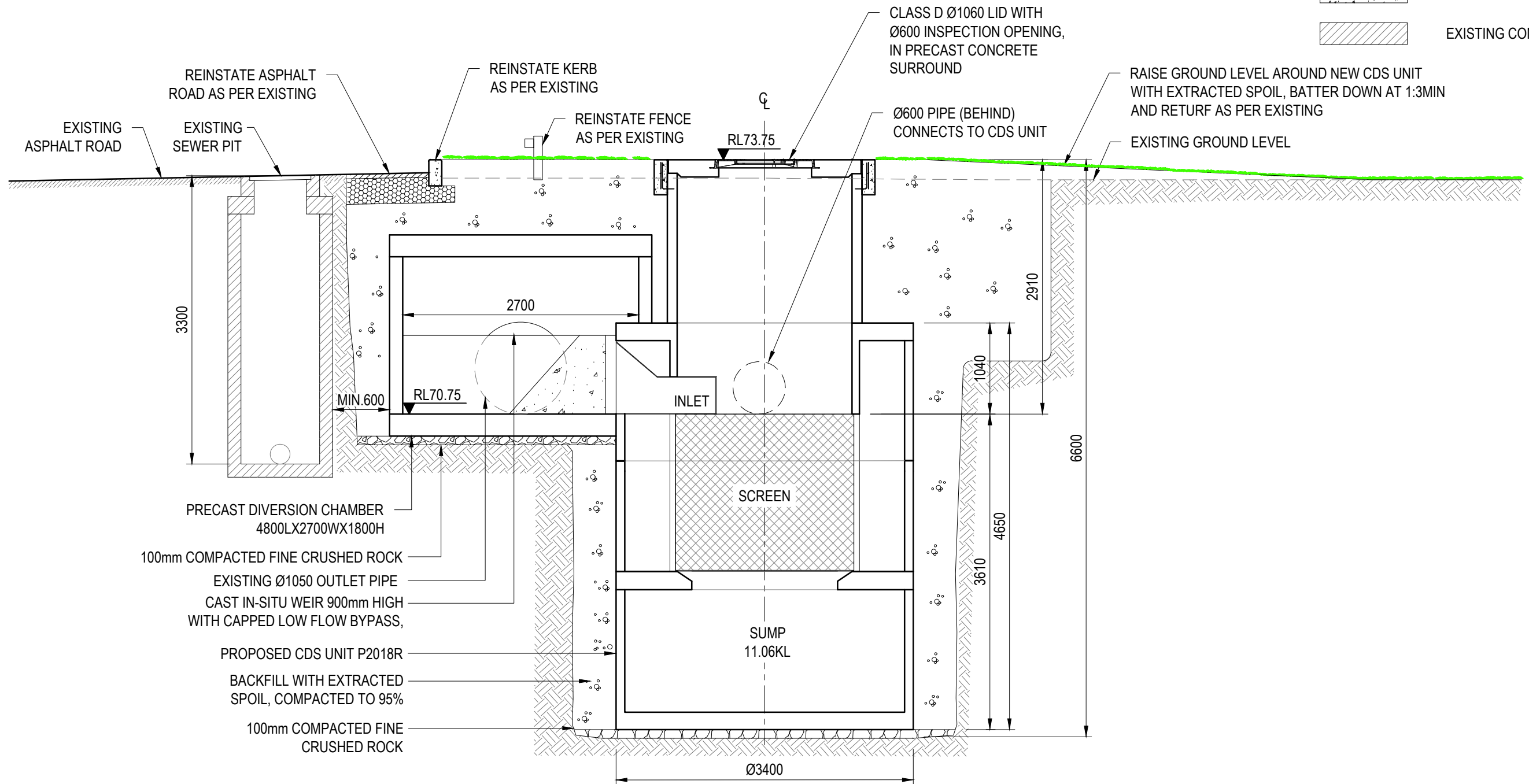
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Project	GPT DESIGN & CONSTRUCTION LOFBERG RD, WEST PYMBLE
Title	SECTIONS, SHEET 1 OF 3

Drawn	D.Tran	Designed	O.Bentham	Date	Oct 2021
Checked	M.Powell	Approved	M.Powell	Scale	1:50
Drawing number.					Revision
21N74_SK_C200					05

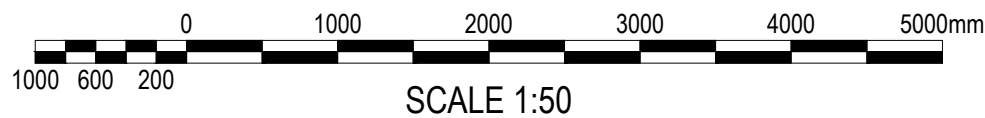
LEGEND

	PRECAST CONCRETE
	CAST IN-SITU CONCRETE
	EXISTING CONCRETE




- PRECAST DIVERSION CHAMBER 4800X2700WX1800H
- 100mm COMPACTED FINE CRUSHED ROCK
- EXISTING Ø1050 OUTLET PIPE
- CAST IN-SITU WEIR 900mm HIGH WITH CAPPED LOW FLOW BYPASS,
- PROPOSED CDS UNIT P2018R
- BACKFILL WITH EXTRACTED SPOIL, COMPACTED TO 95%
- 100mm COMPACTED FINE CRUSHED ROCK

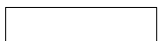
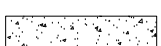

SECTION 2
SCALE: 1:50

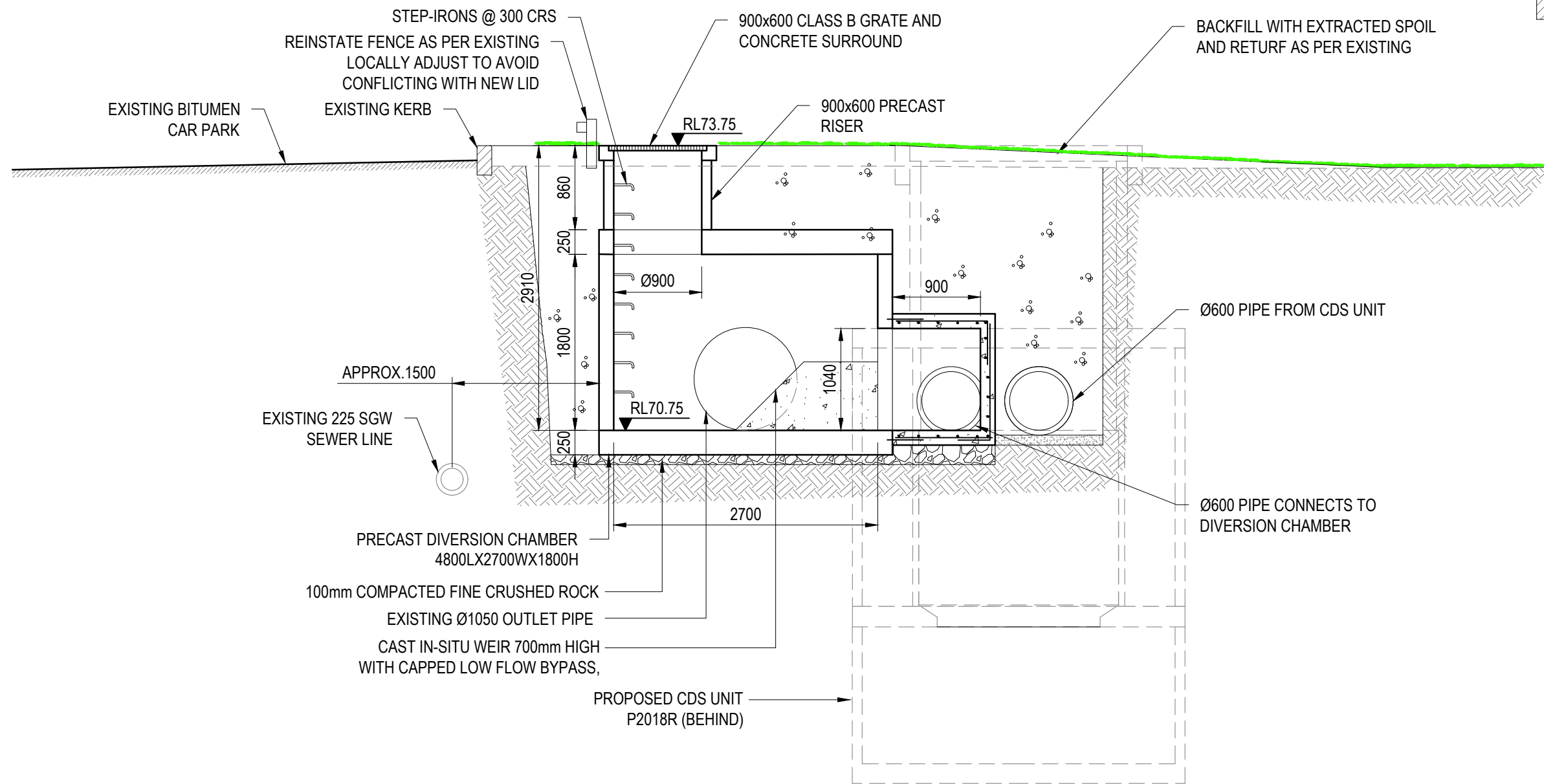


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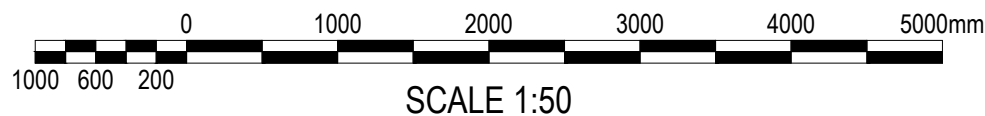
			Client TURFONE	 <p>optimal stormwater SUITE 2.01, 828 PACIFIC HIGHWAY GORDON, NSW 2072</p> <p>Telephone : +61 2 9417 8400 Fax : +61 2 9417 8337 www.optimalstormwater.com.au</p>	Project GPT DESIGN & CONSTRUCTION LOFBERG RD, WEST PYMBLE	Drawn D.Tran	Designed O.Bentham	Date Oct 2021
03	ISSUED FOR APPROVAL	Feb 2023	Surveyor N/A		Checked M.Powell	Approved M.Powell	Scale 1:50	
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01	ISSUED FOR CONCEPT	Dec 2021			REVISION	AMENDMENT		

LEGEND


	PRECAST CONCRETE
	CAST IN-SITU CONCRETE
	EXISTING CONCRETE



SECTION 3
SCALE: 1:50



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05	ISSUED FOR APPROVAL	Feb 2023	Client	 optimal stormwater SUITE 2.01, 828 PACIFIC HIGHWAY GORDON, NSW 2072 Telephone : +61 2 9417 8400 Fax : +61 2 9417 8337 www.optimalstormwater.com.au	Project GPT DESIGN & CONSTRUCTION LOFBERG RD, WEST PYMBLE	Drawn	Designed	Date
04	ISSUED FOR APPROVAL	Aug 2022	TURFONE			D.Tran	O.Bentham	Oct 2021
03	ISSUED FOR CONCEPT	Jul 2022	Surveyor			Checked	Approved	Scale
02	ISSUED FOR CONCEPT	Feb 2022	N/A		M.Powell	M.Powell	1:50	
01	ISSUED FOR CONCEPT	Dec 2021	This drawing and design remains the property of Optimal Stormwater Pty Ltd and may not be copied in whole or in part without the prior written approval of Optimal Stormwater Pty Ltd.		Title	Drawing number.		Revision
REVISION	AMENDMENT	DATE			SECTIONS, SHEET 3 OF 3	21N74_SK_C202		05




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A BildGroup Company


PROJECT
KU-RING-GAI COUNCIL RFT9-2021
STORMWATER MITIGATION AND SYNTHETIC SPORTS FIELD
NORMAN GRIFFITHS OVAL DESIGN AND CONSTRUCT

DRAWING TITLE
SPORTS FIELD PERSPECTIVE SCHEMATIC LAYOUT

LEGEND	
1. 100 Lux LED lighting system	8. 1.2m high black chainmesh fencing
2. Existing pavilion (not shown)	9. 4.0m high retractable textile netting
3. 2.4m high bio-security fence	10. 6.0m high backdrop fencing
4. Sandstone log bleachers	11. FIFA certified synthetic turf surface with cork infill and tufted-in line marking for soccer and small-sided games
5. Concrete paving to circulation paths	12. International standard soccer goals
6. Player access with foot grates	13. Accessible pathway from carpark
7. Player shelters (9 seats)	14. Accessible parking space
	15. Gross pollutant trap
	16. Emergency vehicle access gateway
	17. 200mm high concrete kerb
	18. Outlet from 2.4 megalitre OSD
	19. Tiered sandstone retaining wall
	20. Bio-retention basin
	21. 1.2m high black mesh safety fence
	22. 1.5m wide path to Aquatic Centre
	23. Electronic scoreboard
	24. Provision of rock lined absorption pits/check dams in overland flow path to counteract any potential erosion and to provide collection point for any potential migration of infill material, silt & sediment.
	25. Accessible player access with ramps and foot grate



REVISIONS				DRAWN	DATE
REV	DATE	DESCRIPTION	CHECK	Donald Vary	1/02/2023
I	1/02/23	CONSTRUCTION	DOV	Geethaka Kumbalatarra	1/02/2023
				APPROVED	DATE
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				DRAWING No.	010 REV I

PROJECT
 KU-RING-GAI COUNCIL RFT9-2021
 STORMWATER MITIGATION AND SYNTHETIC SPORTS FIELD
 NORMAN GRIFFITHS OVAL DESIGN AND CONSTRUCT

DRAWING TITLE
 SPORTS FIELD PLAN SCHEMATIC LAYOUT

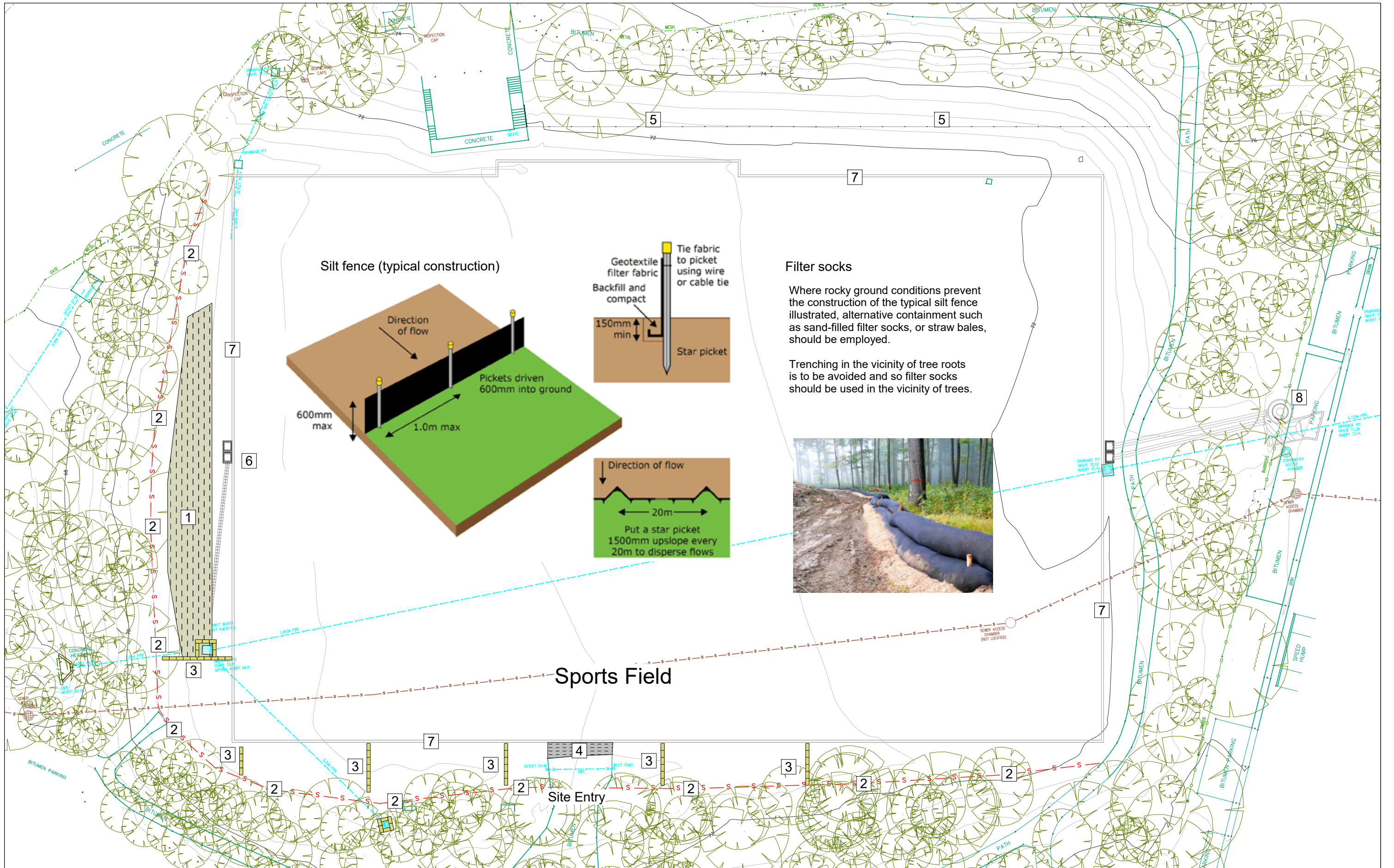
LEGEND	
1. 100 Lux LED lighting system	8. 1.2m high black chainmesh fencing
2. Existing pavilion (not shown)	9. 4.0m high retractable textile netting
3. 2.4m high bio-security fence	10. 6.0m high backdrop fencing
4. Sandstone log bleachers	11. FIFA certified synthetic turf surface with cork infill and tufted-in line marking for soccer and small-sided games
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	17. 200mm high concrete kerb
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	19. Tiered sandstone retaining wall
	20. Bio-retention basin
	21. 1.2m high black mesh safety fence
	22. 1.5m wide path to Aquatic Centre
	23. Electronic scoreboard
	24. Provision of rock lined absorption pits/check dams in overland flow path to counteract any potential erosion and to provide collection point for any potential migration of infill material, silt & sediment.
	25. Accessible player access with ramps and foot grate

REVISIONS			
REV	DATE	DESCRIPTION	CHECK
I	1/02/23	CONSTRUCTION	DOV

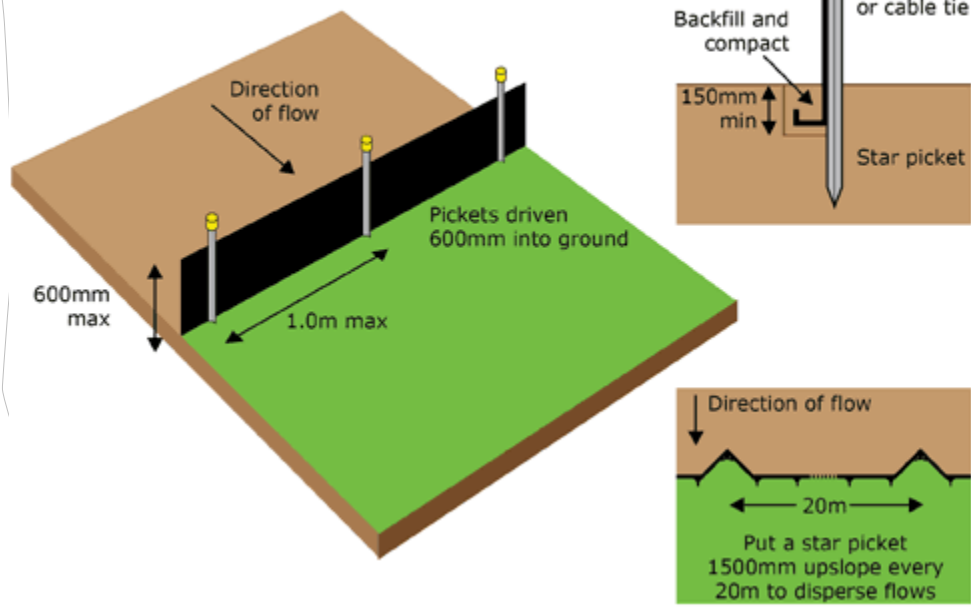
DRAWN Donald Vary		DATE 1/02/2023
VERIFIED Geethaka Kumbalataru		DATE 1/02/2023
APPROVED		DATE
PROJECT No.	TO-003	
DRAWING No.	011 REV I	



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Silt fence (typical construction)



Filter socks

Where rocky ground conditions prevent the construction of the typical silt fence illustrated, alternative containment such as sand-filled filter socks, or straw bales, should be employed.

Trenching in the vicinity of tree roots is to be avoided and so filter socks should be used in the vicinity of trees.



Sports Field

Site Entry

LEGEND

- 1. Temporary sedimentation pondage.
- 2. Silt containment using a combination of prefilled hessian sand bags and prefilled silt sausage. Site security fence will be erected just outside the alignment of containment measures.
- 3. Straw bale dam checks (final location to be determined on site).
- 4. All-weather site access for construction traffic. Rumble grid to be installed over existing hardstand.
- 5. 2.4m high bio-security fence (constructed by others)..
- 6. On-site detention outlet pit to be constructed. Flows into the sedimentation pondage to be controlled by means of sand bags at the low level outlets of this pit.
- 7. 200mm high concrete kerb to be constructed to perimeter of the playing field.
- 8. Gross pollutant trap to be constructed.



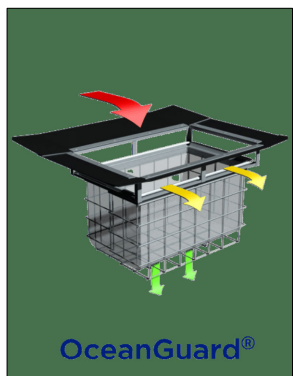
PROJECT
 KU-RING-GAI COUNCIL RFT9-2021
 STORMWATER MITIGATION AND SYNTHETIC SPORTS FIELD
 NORMAN GRIFFITHS OVAL DESIGN AND CONSTRUCT

DRAWING TITLE
 EROSION & SEDIMENT CONTROL PLAN



REVISIONS				DRAWN	DATE
REV	DATE	DESCRIPTION	CHECK	VERIFIED	DATE
C	31/01/23	CONSTRUCTION	DOV	Geethaka Kumbalatarata	31/01/2023
				APPROVED	DATE
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				DRAWING No.	012 REV C

Pit 11
Build up existing pit and set grate flush with new surface. Install OceanGuard filter basket to intercept microplastics.



1.8 m wide (includes edge beam at side of sportsfield)

Set concrete surrounds for pit lids to Pit 03 and Pit 04 flush with path surface.

Marry in new finished surface with existing where possible

Shoe cleaning grate set flush with surface

Variable invert spoon drain formed in surface of paving between pits, terminating with 50mm max. invert at edge of each pit.

Concrete path to be constructed with the surface sloping away from the field at 2% (20mm per metre)

2.1 m wide (includes edge beam at side of sportsfield)

Ramp down 200mm 2.4 m

Technical area 30.0 m x 2.0m setback

49.0 m

3.3 m wide (includes edge beam at side of sportsfield)

2.3 m wide (includes edge beam at side of sportsfield)

Shoe cleaning grate set flush with surface

Accessible pathway Design gradient 1:36.

Concrete path to be constructed on top of sandstone log retaining wall. 25mm (minimum) depth of crushed rock bedding on top of sandstone.

Paving levels to marry in where new concrete path crosses existing asphalt path.

Marry in with existing path

PIT	PIT TYPE	LENGTH	WIDTH	DEPTH	INLET	OUTLET	INVERT RL	COVER RL	EASTING	NORTHING	COVER	CLASS
05	GRADED INLET PIT	600	600	500		225	71.32	71.82 AT V			VEE GRATE HEEL SAFE	C
06	GRADED INLET PIT	600	600	600	225	225	71.22	71.82 AT V			VEE GRATE HEEL SAFE	C
07	GRADED INLET PIT	600	600	690	225	225	71.13	71.82 AT V			VEE GRATE HEEL SAFE	C
08	GRADED INLET PIT	600	600	790	225	300	71.03	71.82 AT V			VEE GRATE HEEL SAFE	C
09	GRADED INLET PIT	600	600	880	300	300	70.94	71.82 AT V			VEE GRATE HEEL SAFE	C
10	GRADED INLET PIT	600	600	980	300	300	70.84	71.82 AT V			VEE GRATE HEEL SAFE	C
11	GRADED INLET PIT	800	800	2680	300	375	69.14	71.82 AT V			VEE GRATE HEEL SAFE	C

Notes: Install uPVC drain at 1:200 gradient from Pit 05 to Pit 11. Pit cover RL is measured at the centreline of the Vee.

300mm wide x 300mm high concrete edge beam. Top of edge beam set 200mm above FSL of synthetic turf. Smooth finish to both internal and external exposed faces. Note: Edge beam is to be boxed after installation of fence posts.

Emergency / maintenance vehicle access Refer drawing 052.

Synthetic turf surface 117.0 m

Accessible pathway Maximum gradient 1:41.



NOTES

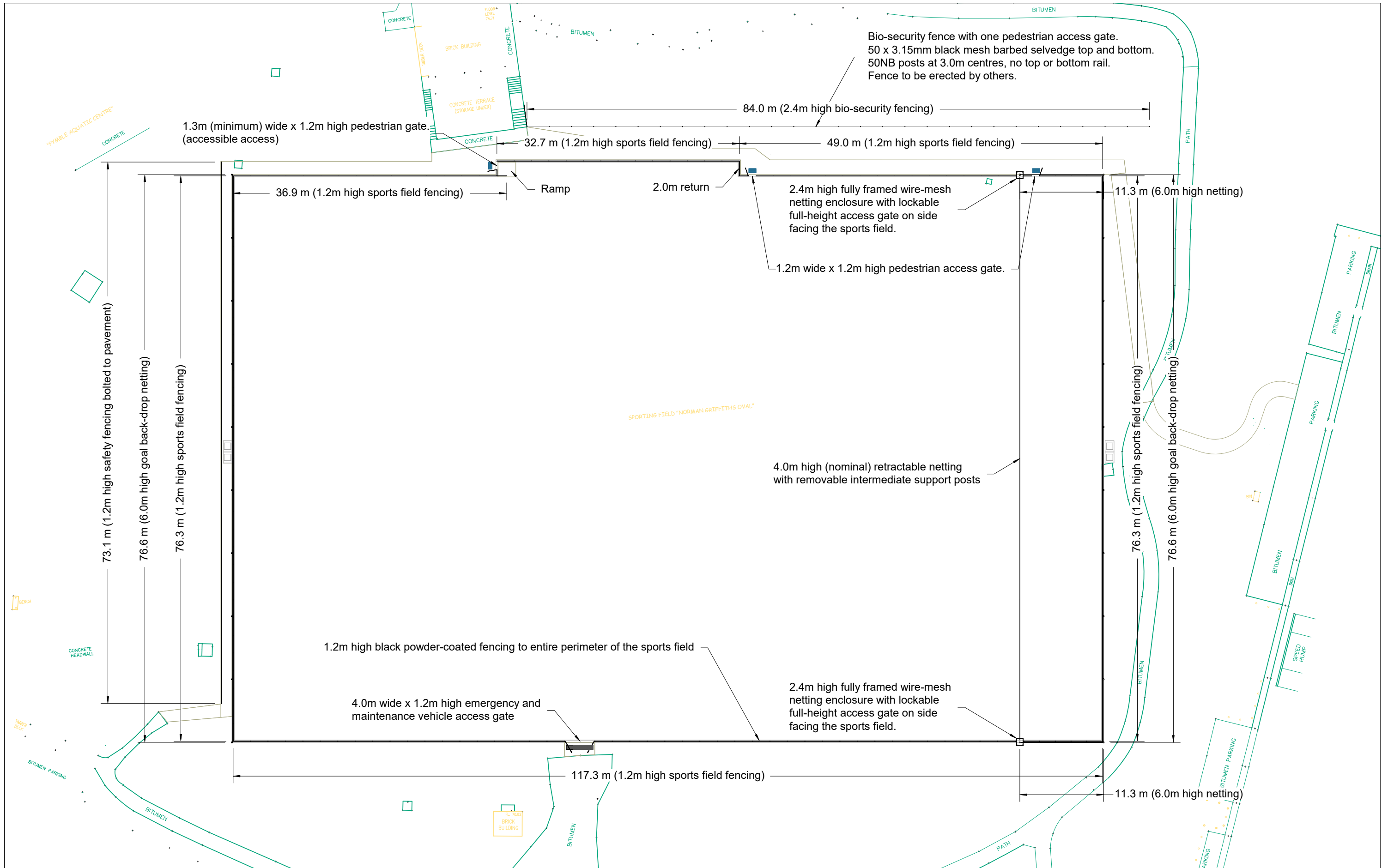
All pedestrian paving (circulation paths) is to be 125mm thick N32 grade concrete with SL72 mesh placed centrally. Light broom finish with ruled margins. Cast edge beam integrally with the paving slab on edge abutting the field to provide 300mm (minimum) high finished exposed vertical face. The finished surface of concrete paving abutting the field is slope at a 2% gradient away from the field. Paving at the emergency / maintenance vehicle access is to be 175mm thick N32 grade concrete with SL82 mesh placed centrally. Stiff broom finish with ruled margins. The concrete edge beam to the balance of the perimeter is to be 300mm wide with 300mm (minimum) high finished exposed faces on both sides. Compressive strength testing shall be in accordance with AS 1012. All concrete is to be bedded on crushed rock road base 75mm (nominal) thick, with the exception that the depth of bedding is to be reduced to 25mm on the top of the sandstone log retaining wall. Construct 60mm deep recesses for shoe grates and piped drainage to adjacent drain.



REVISIONS				DRAWN	DATE
REV	DATE	DESCRIPTION	CHECK	Donald Vary	31/01/2023
B	31/01/23	CONSTRUCTION	DOV	Geethaka Kumbalata	31/01/2023
				APPROVED	DATE
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				DRAWING No.	014 REV B

PROJECT
KU-RING-GAI COUNCIL RFT9-2021
STORMWATER MITIGATION AND SYNTHETIC SPORTS FIELD
NORMAN GRIFFITHS OVAL DESIGN AND CONSTRUCT

DRAWING TITLE
SPORTS FIELD CONCRETE PAVING & DRAINAGE PLAN




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PROJECT
KU-RING-GAI COUNCIL RFT9-2021
STORMWATER MITIGATION AND SYNTHETIC SPORTS FIELD
NORMAN GRIFFITHS OVAL DESIGN AND CONSTRUCT

DRAWING TITLE
SPORTS FIELD FENCING PLAN

NOTES

Wire mesh is to be black fuse-bonded polymer coated and posts, rails and fittings are to be black powder-coated. All fencing is to comply with Australian Standard, or building regulations where there is no applicable standard. The 1.2m high sports field fencing is to be constructed in accordance with AS 1725.5 Type 2 Heavy Durability standard. Powder coating shall comply with the requirements of AS/NZS 4506. Fuse-bonded polymer to comply with AS 2423.

Supporting posts and foundations for ball catch netting to fully engineered and inspected and certified by building surveyor as compliand with BSA.

The centreline of posts supporting the ball catch netting is set back 150mm from the centreline of sportsfield fencing

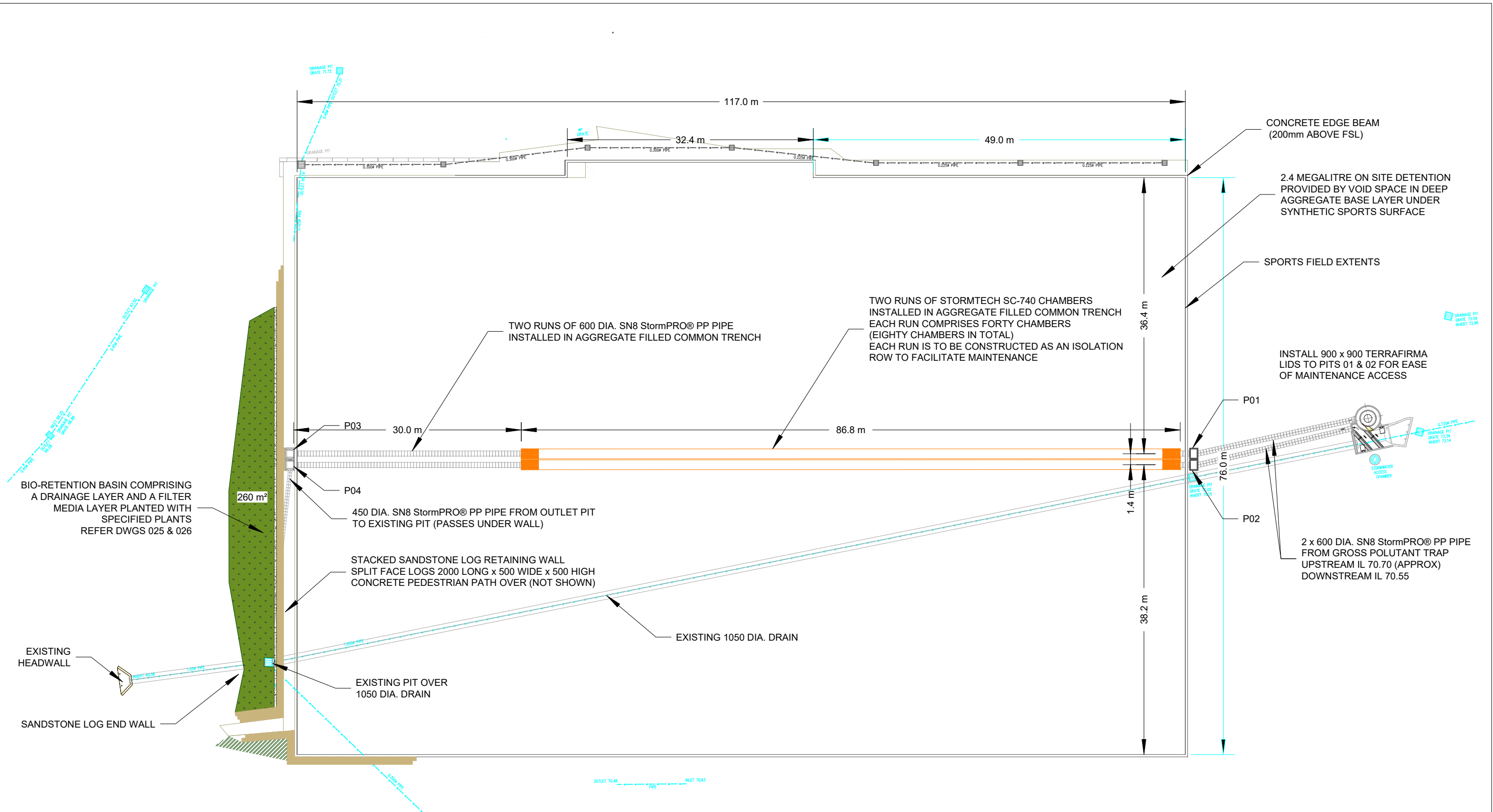
All gates are to be lockable by means of shoot bolts and / or drop bolts, with hasp and staple to accept council padlocks.



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PLAN VIEW

SCALE 1:500 @ A3

PIT	PIT TYPE	LENGTH	WIDTH	DEPTH	INVERT RL	COVER RL	EASTING	NORTHING	COVER	CLASS
01	JUNCTION PIT INLET	1200	900	1550	70.50	72.05			TERRA FIRMA GRP	B
02	JUNCTION PIT INLET	1200	900	1550	70.50	72.05			TERRA FIRMA GRP	B
03	JUNCTION PIT OUTLET	1200	900	1870	70.24	72.11			CONCRETE	B
04	JUNCTION PIT OUTLET	1200	900	1870	70.24	72.11			CONCRETE	B

NOTES
 THE CENTERLINE OF THE STORMTECH TRENCH IS SET 0.9m TO THE NORTH OF THE CENTERLINE OF THE FIELD TO AVOID CONFLICT IN THE POSITIONING OF PIT 02 AND THE EXISTING PIT OVER THE BARREL DRAIN AT THE LOFTBERG ROAD END OF THE FIELD.

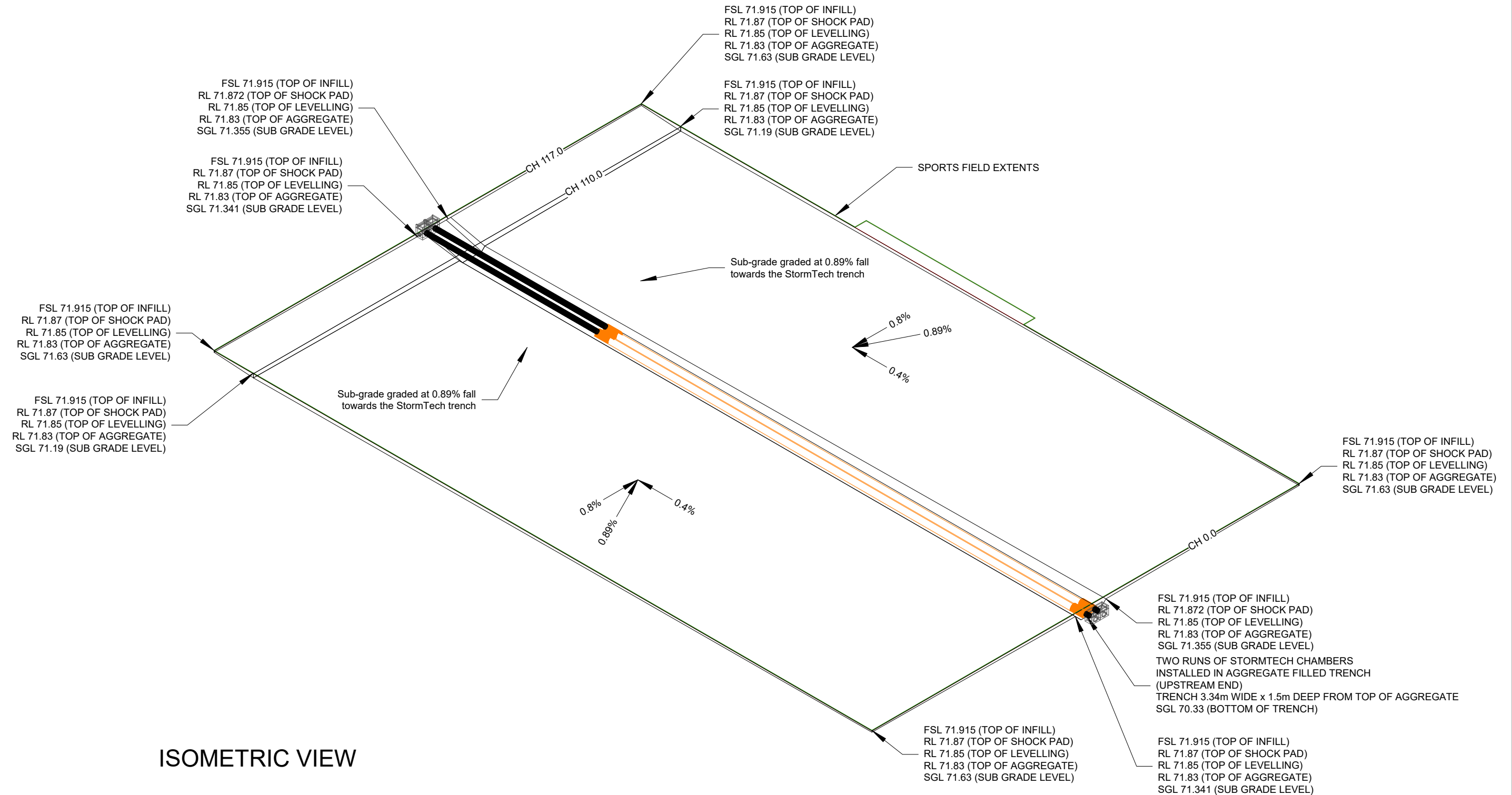


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 KU-RING-GAI COUNCIL RFT9-2021
 STORMWATER MITIGATION AND SYNTHETIC SPORTS FIELD
 NORMAN GRIFFITHS OVAL DESIGN AND CONSTRUCT

DRAWING TITLE
 SPORTS FIELD BASE PROFILE ON-SITE DETENTION SCHEMATIC LAYOUT



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 STORMWATER MITIGATION AND SYNTHETIC SPORTS FIELD
 NORMAN GRIFFITHS OVAL DESIGN AND CONSTRUCT

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 SPORTS FIELD BASE PROFILE ON-SITE DETENTION SCHEMATIC LAYOUT

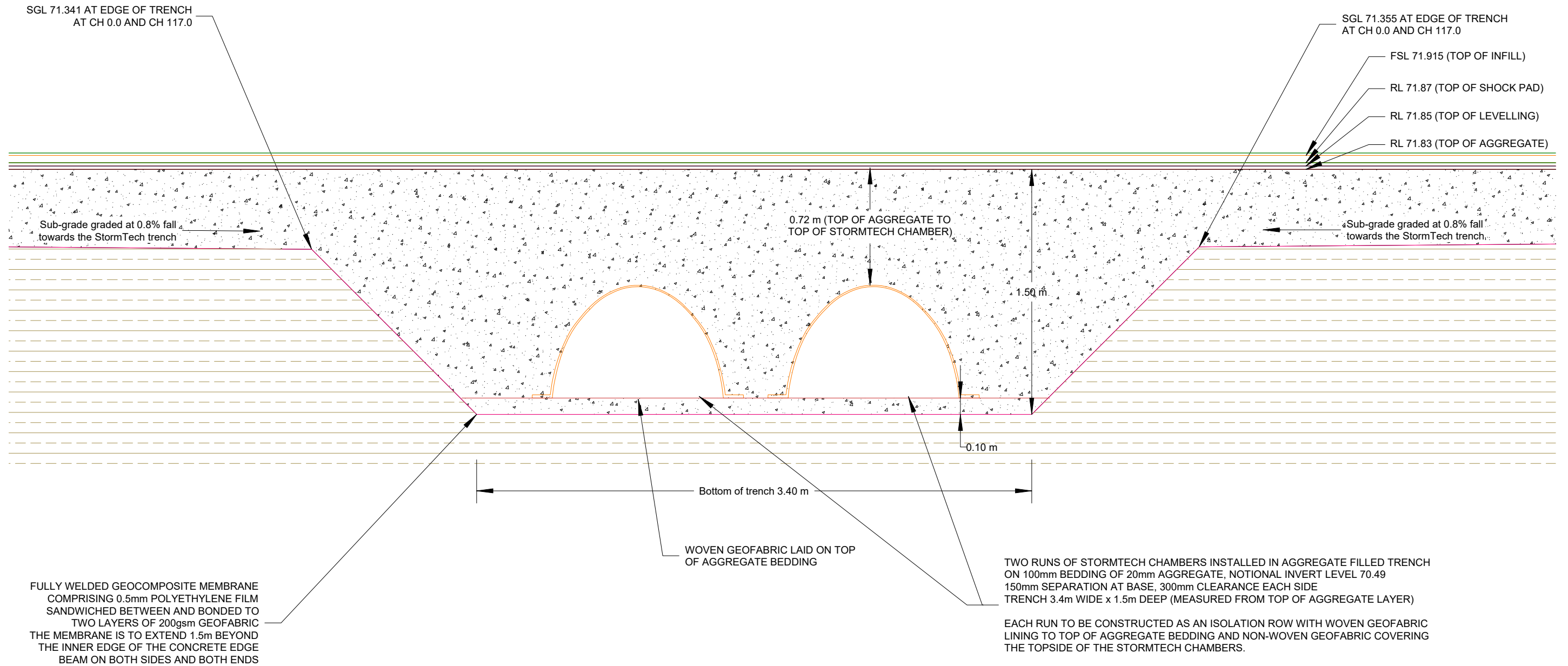
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SECTIONAL VIEW OF STORMTECH TRENCH AT CH 0.0 AND CH 117.0

SCALE 1:25 @ A3



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 STORMWATER MITIGATION AND SYNTHETIC SPORTS FIELD
 NORMAN GRIFFITHS OVAL DESIGN AND CONSTRUCT

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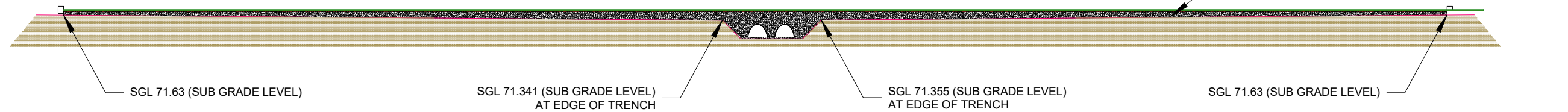
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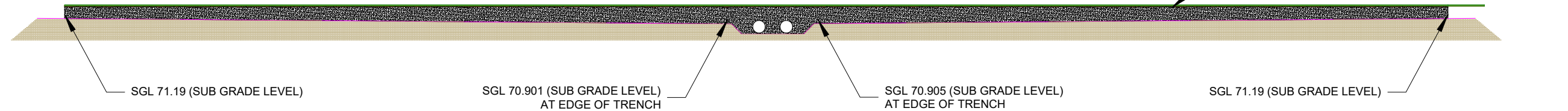
SECTIONAL VIEW AT NORTHEASTERN END OF FIELD (CH 0.0)

SCALE 1:250



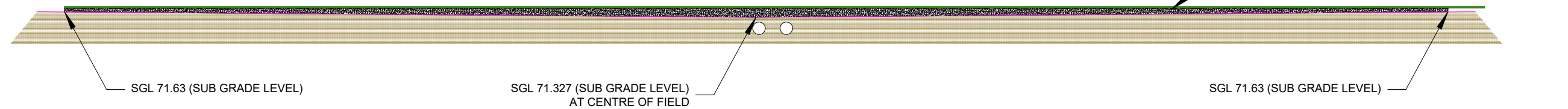
SECTIONAL VIEW AT LOWEST POINT (CH 110.0)

SCALE 1:250



SECTIONAL VIEW AT SOUTHWESTERN END OF FIELD (CH 117.0)

SCALE 1:250



VOLUMETRIC CALCULATION FOR ON-SITE DETENTION

Cross-sectional area of aggregate:

CH 0.0 33.5 m²

CH 110.0 64.8 m²

CH 117.0 29.1 m²

Volume of aggregate CH 0.0 to CH 110 = $110 \times (33.5 + 64.8) / 2 = 5,406 \text{ m}^3$

Volume of aggregate CH 110.0 to CH 117.0 = $7 \times (64.8 + 29.1) / 2 = 328 \text{ m}^3$

Therefore total volume of aggregate = 5,734 m³

Void space in aggregate layer = $0.4 \times 5,734 = 2,293 \text{ m}^3$

Void space in StormTech chambers = $80 \times 1.30 = 104 \text{ m}^3$

Void space in 600 dia. StormPro pipes = $62.4\text{m} \times 0.28 = 17.5 \text{ m}^3$

Therefore total void space measured to underside of blinding layer = 2,414 m³

Capacity of on-site detention = 2.4 megalitres



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 KU-RING-GAI COUNCIL RFT9-2021
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 SPORTS FIELD BASE PROFILE ON-SITE DETENTION OSD VOLUMETRIC CALCULATIONS

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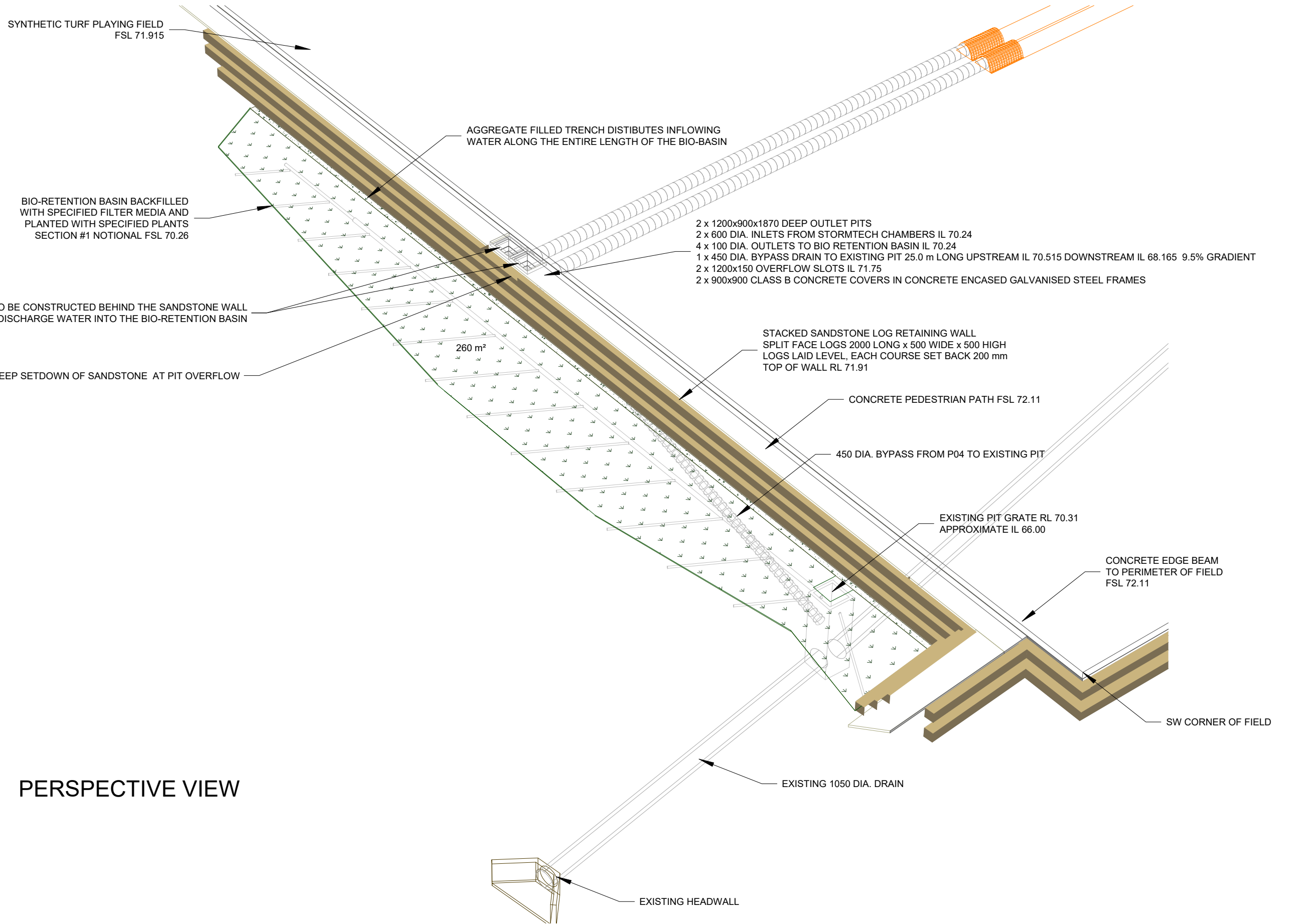


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PERSPECTIVE VIEW



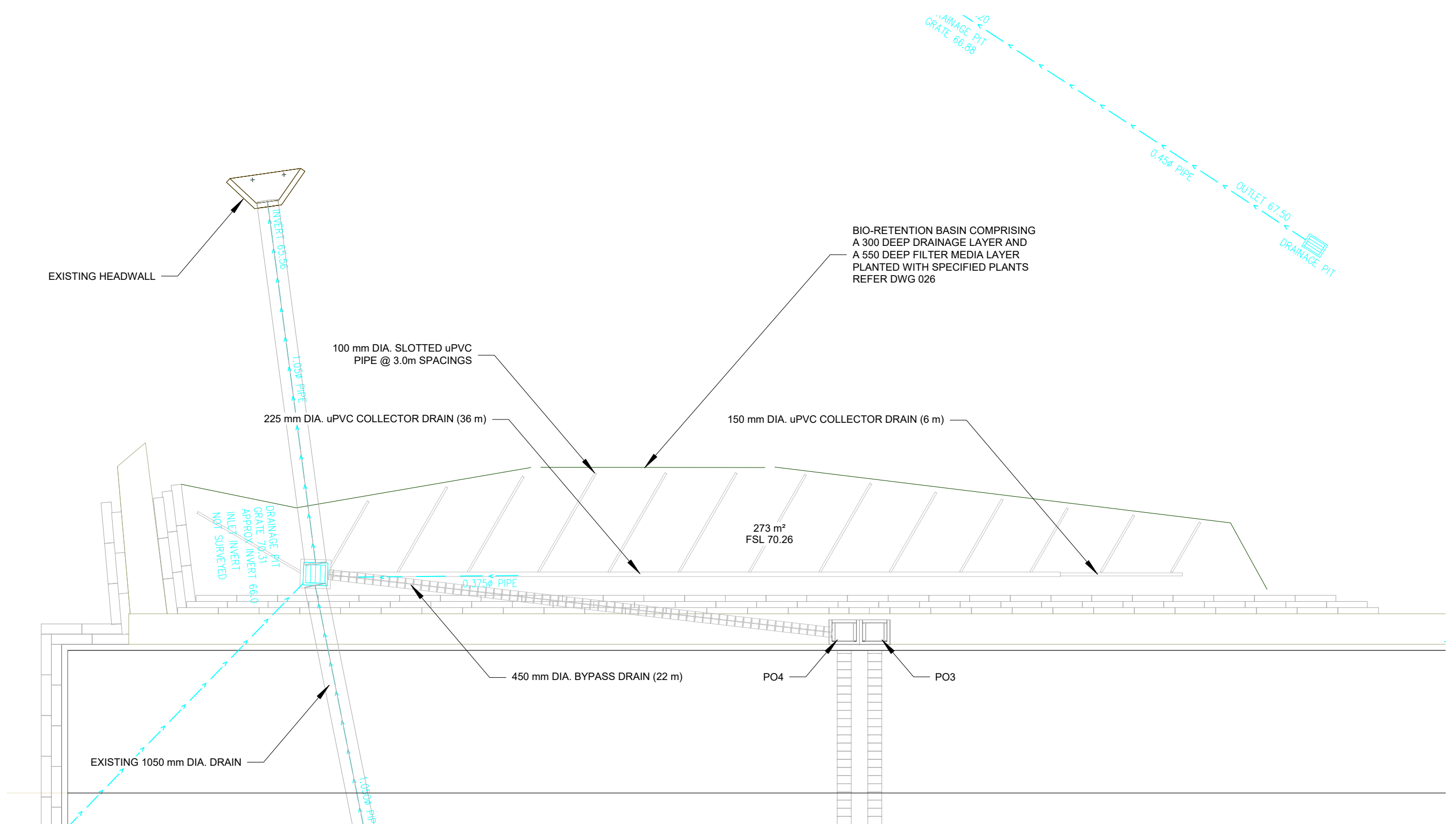
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NORMAN GRIFFITHS OVAL DESIGN AND CONSTRUCT

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PLAN VIEW
SCALE 1:100 @ A3



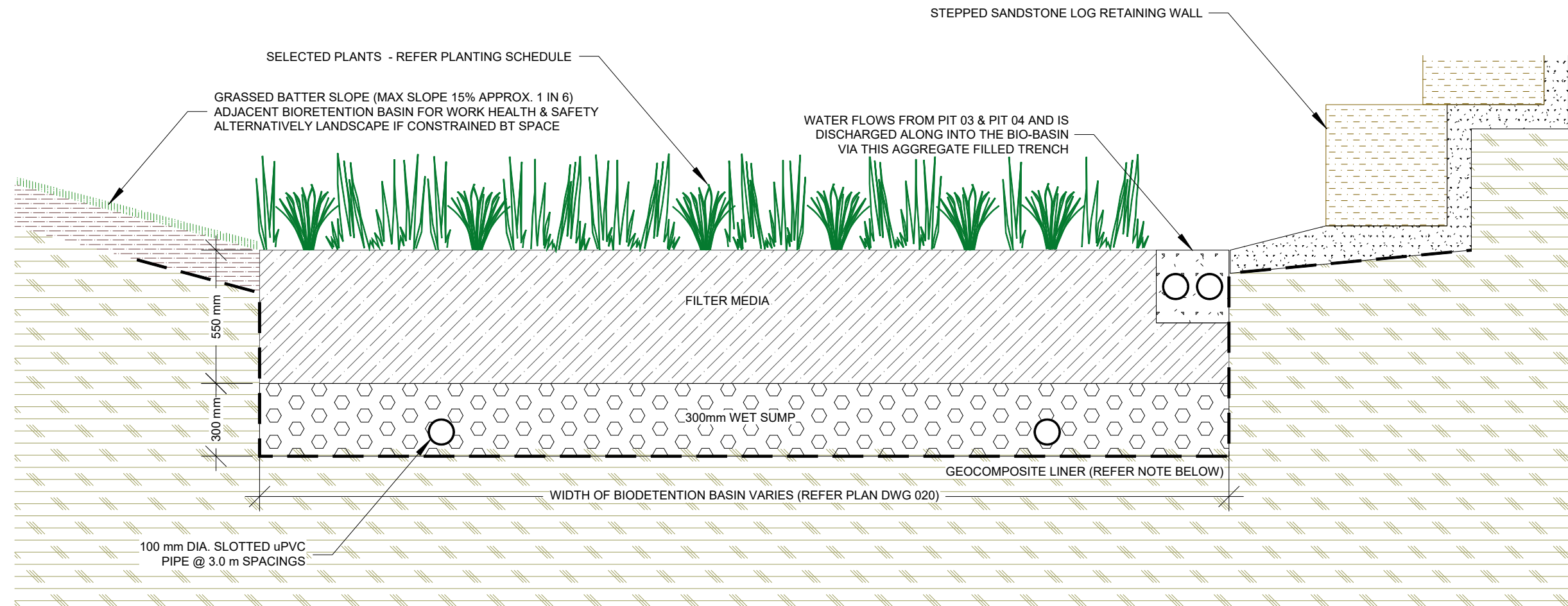
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SCHEMATIC SECTION

SCALE 1:20 @ A3

FILTER MEDIA

Filter media is to be a low nutrient freely draining sandy loam. Media infiltration rate: 300mm/hr hydraulic conductivity (saturated).

WET SUMP

Drainage layer is to be 5-7mm clean drainage gravel (not recycled)

GEOCOMPOSITE LINER

Fully welded impermeable geocomposite liner comprising 500 micron polyethylene film sandwiched between and bonded to two layers of non-woven 200 gsm geofabric.

Note that this material is the same as the liner to be installed under the OSD.

PLANTING SCHEDULE

BIORETENTION FILTER SURFACE (260 m ²)	PLANT SPECIES	SIZE	NUMBER
Density: 8 plants/sq.m	<i>Ficinia nodulosa</i>	Tube	414
	<i>Carex appressa</i>	Tube	414
	<i>Dianella revoluta</i>	Tube	322
	<i>Juncus usitatus</i>	Tube	414
	<i>Centella asiatica</i>	Tube	207
	<i>Crinum pendunculatum</i>	Tube	207
	<i>Pratia purpurascens</i>	Tube	102
	Total		2,080

LEGEND



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SPORTS FIELD BIO-RETENTION BASIN SCHEMATIC SECTION

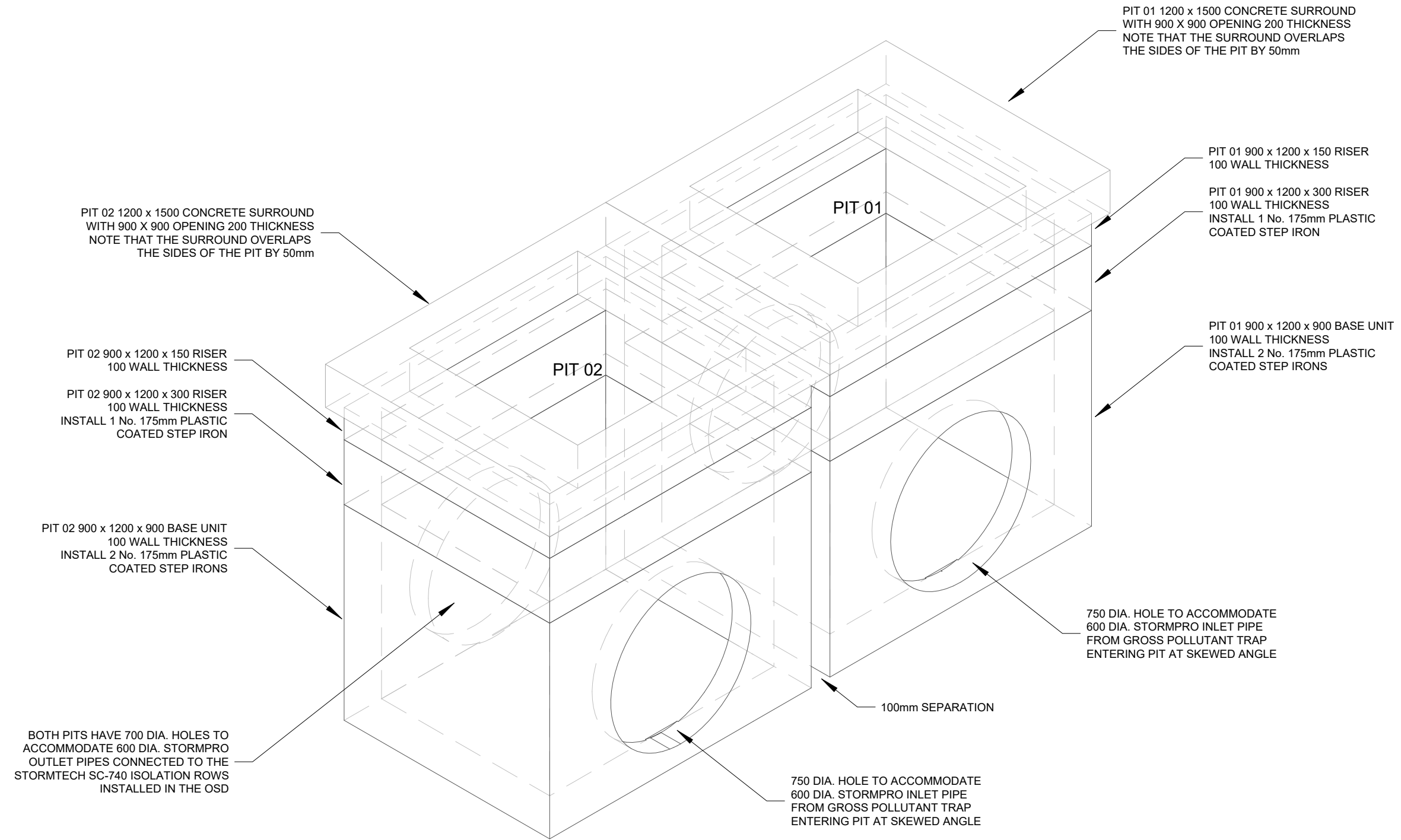


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ISOMETRIC VIEW

NOT TO SCALE

VIEWED FROM INLET SIDE
(NOTIONALLY THE EASTERN SIDE)

NOTES:

THESE PITS ARE NOT SYMETRICAL. INLET HOLES ARE 750 DIA., OUTLET HOLES ARE 700 DIA.
PIT COVERS ARE TO BE TERRA FIRMA B80 1055 x 1055 jct GREEN FRP CLASS B TO SUIT
900 x 900 CLEAR OPENING



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NORMAN GRIFFITHS OVAL DESIGN AND CONSTRUCT

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SPORTS FIELD INLET PITS SCHEMATIC LAYOUT

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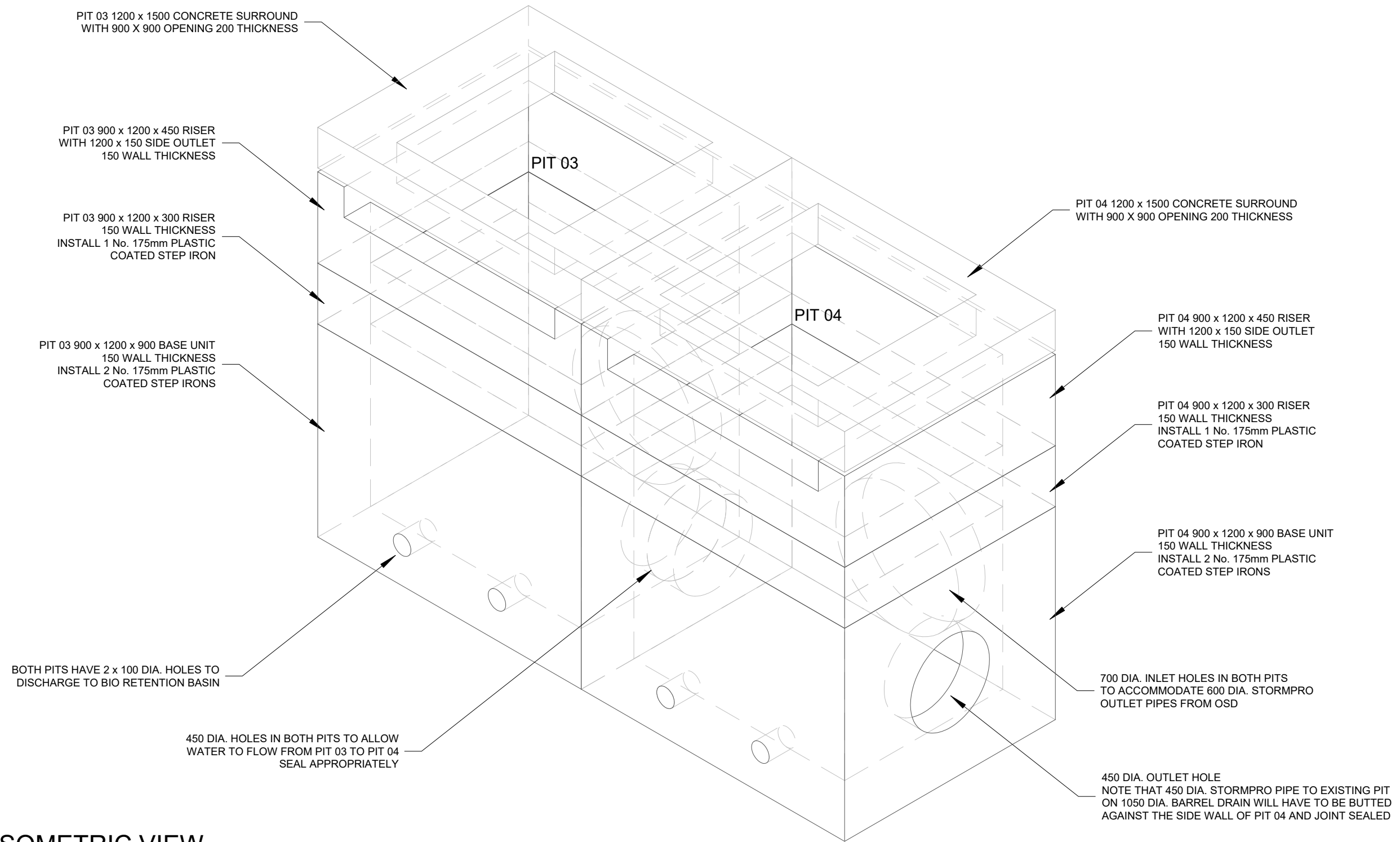


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ISOMETRIC VIEW

NOT TO SCALE

VIEWED FROM OUTLET SIDE
(NOTIONALLY THE WESTERN SIDE)

NOTES:
THESE PITS ARE NOT SYMETRICAL..
PIT COVERS ARE TO BE SOLID CONCRETE CLASS B TO SUIT 900 x 900 CLEAR OPENING



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SPORTS FIELD OUTLET PITS SCHEMATIC LAYOUT

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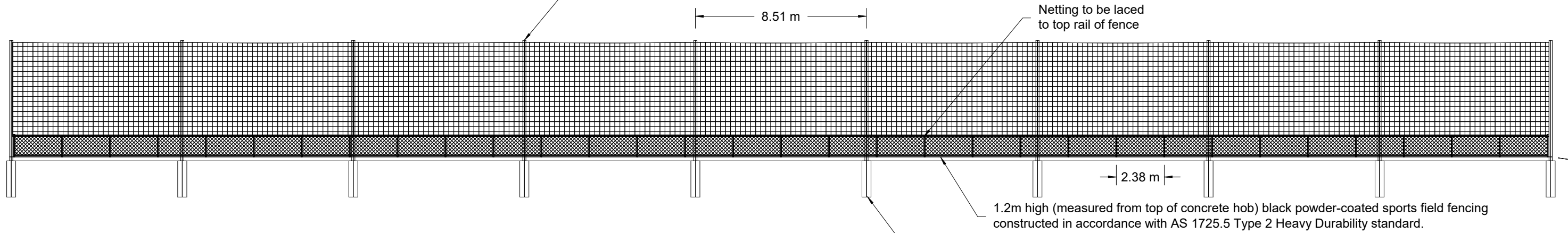
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BALL CATCH FENCING AT ENDS OF PLAYING FIELD

ELEVATION SCALE 1:20 (A3)

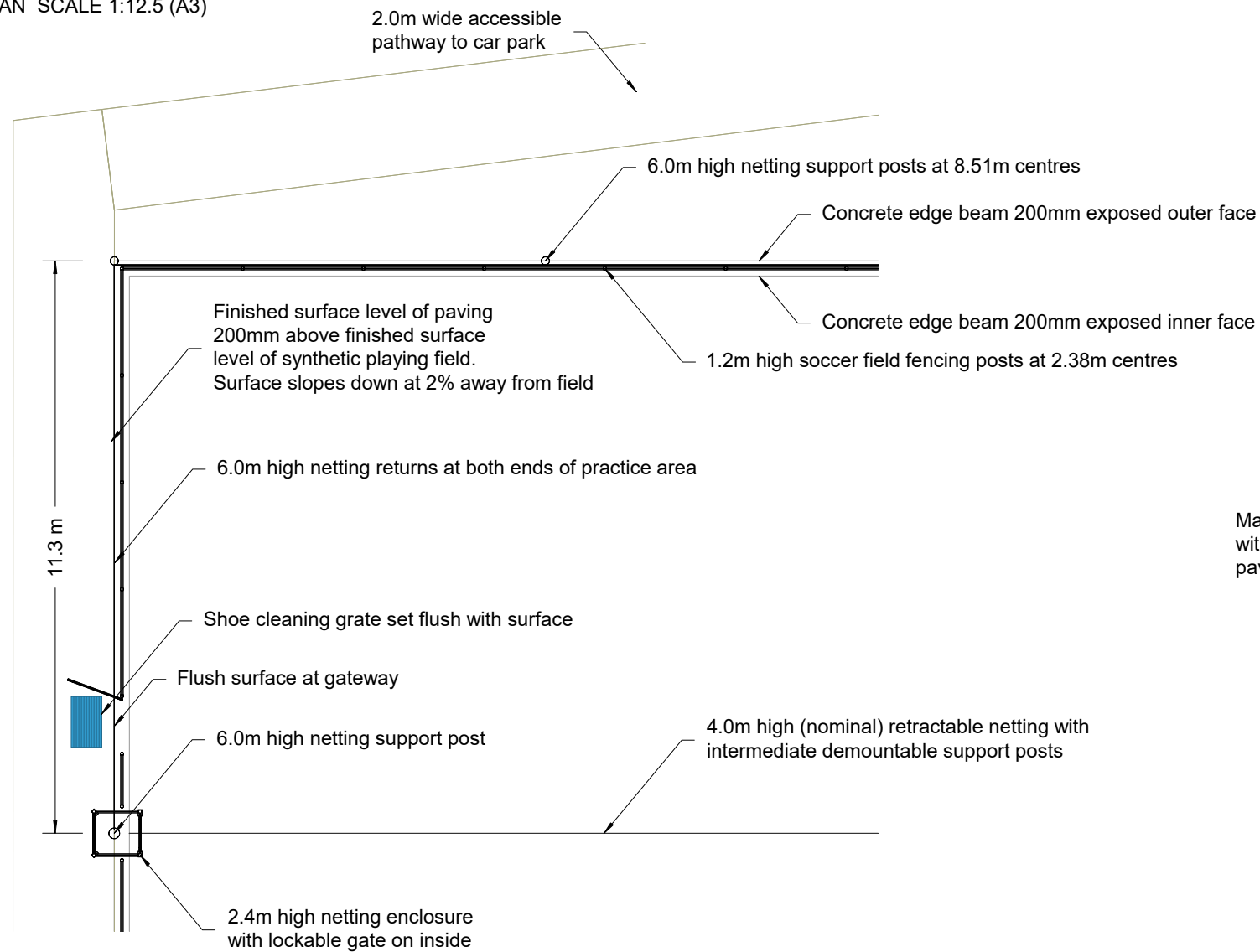
10 no. 6.0m high (from FSL) black powder-coated galvanised steel support posts at 8.51m (nom.) centres, with netting cable attachment points welded on prior to powder coating. Post joins to be fully welded and buried in concrete foundation.

Note: The centreline of posts supporting the ball catch netting is set back 150mm from the centreline of posts of the sports field fencing.



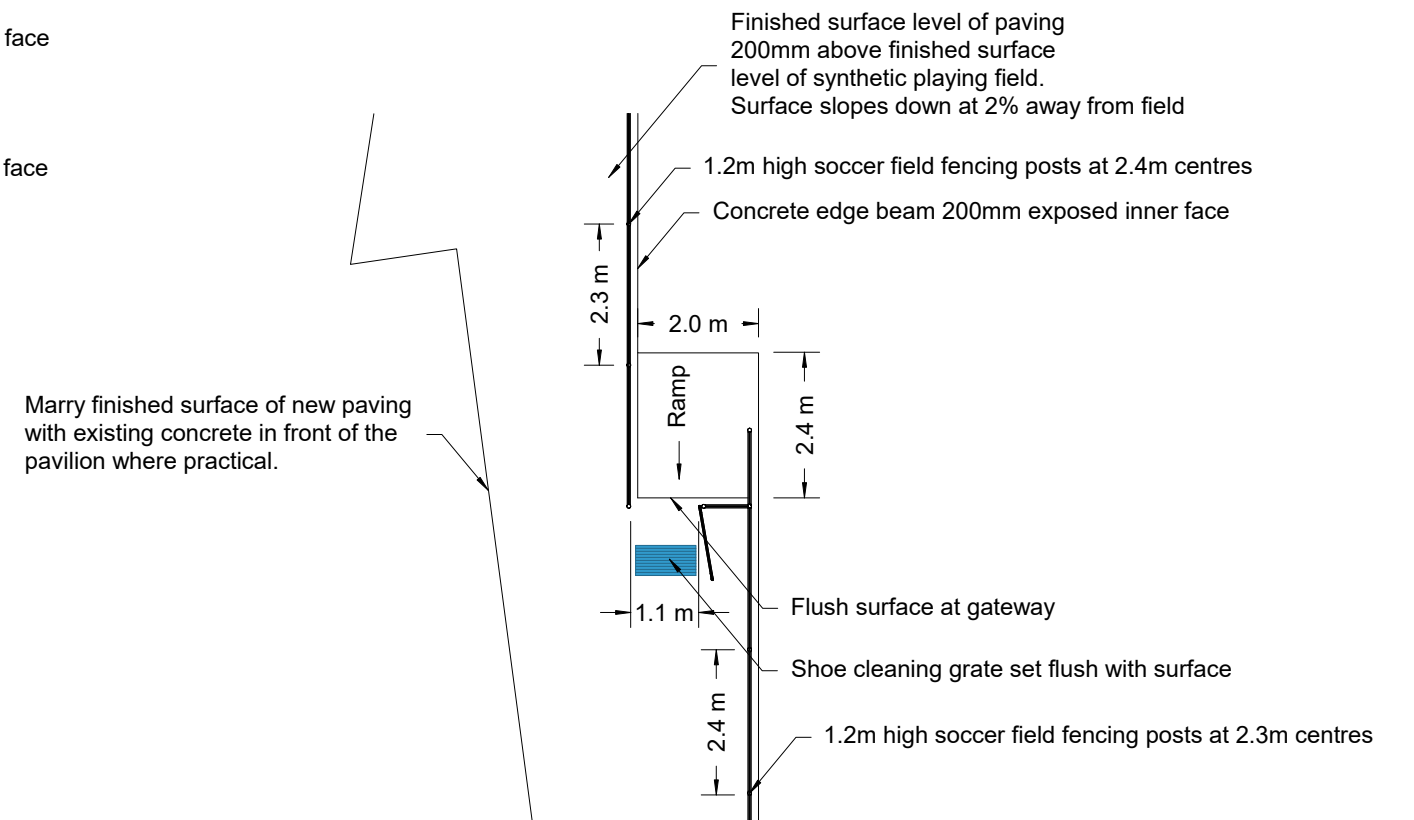
FENCING AT NORTHERN CORNER OF PLAYING FIELD

PLAN SCALE 1:12.5 (A3)



FENCING AT WESTERN END OF TECHNICAL AREA

PLAN SCALE 1:12.5 (A3)



Marry finished surface of new paving with existing concrete in front of the pavilion where practical.

NOTES

Netting Specification
 Product Name: Oxley Nets 150 ply Football Barrier Netting
 Colour: Black
 Material: Nylon
 UV Stability: High
 Twine: 150 ply (3mm)
 Mesh Dimension: 100mm x 100mm
 Standard Break Load: 125 kg
 Weight: 90 g/m²
 Porosity: 94%

Posts, Foundations and Cable
 Support posts: Galvanised steel tube with fully-welded end caps and attachment points
 Colour: Black (powder-coated)
 Specification: 150 nominal bore x 4mm wall thickness (subject to engineering)
 Foundations: 450 dia. unreinforced concrete (depth subject to engineering)
 Cable: 5mm dia. hot-dip galvanised steel cable.
 Engineering: To be certified as compliant with BSA regulations.



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 SPORTS FIELD FENCING DETAILS



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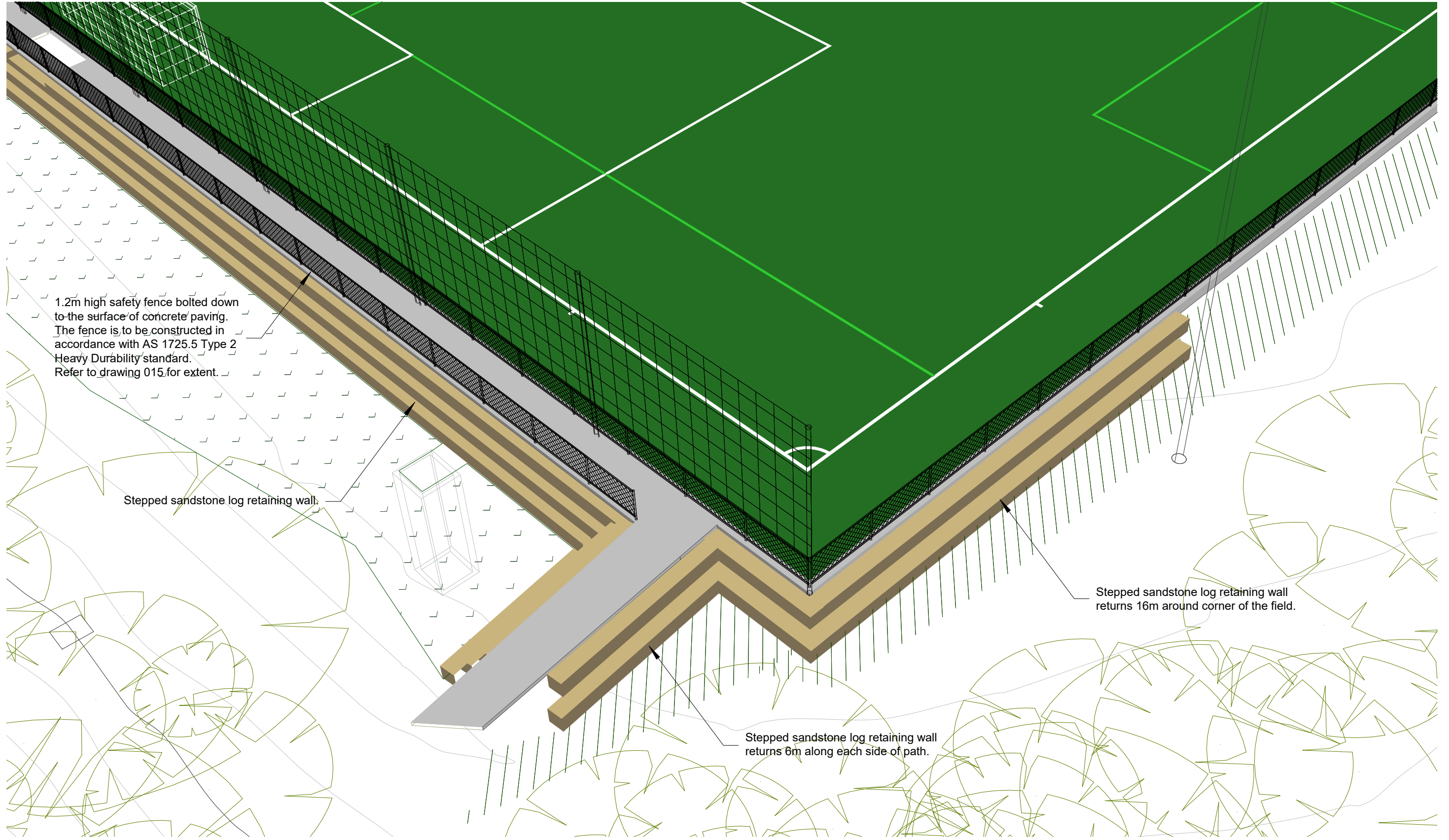
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SAFETY FENCING AT SOUTH-WESTERN END OF PLAYING FIELD

SCHEMATIC PERSPECTIVE VIEW (NOT TO SCALE)



1.2m high safety fence bolted down to the surface of concrete paving. The fence is to be constructed in accordance with AS 1725.5 Type 2 Heavy Durability standard. Refer to drawing 015 for extent.

Stepped sandstone log retaining wall.

Stepped sandstone log retaining wall returns 16m around corner of the field.

Stepped sandstone log retaining wall returns 6m along each side of path.



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SPORTS FIELD SAFETY FENCING

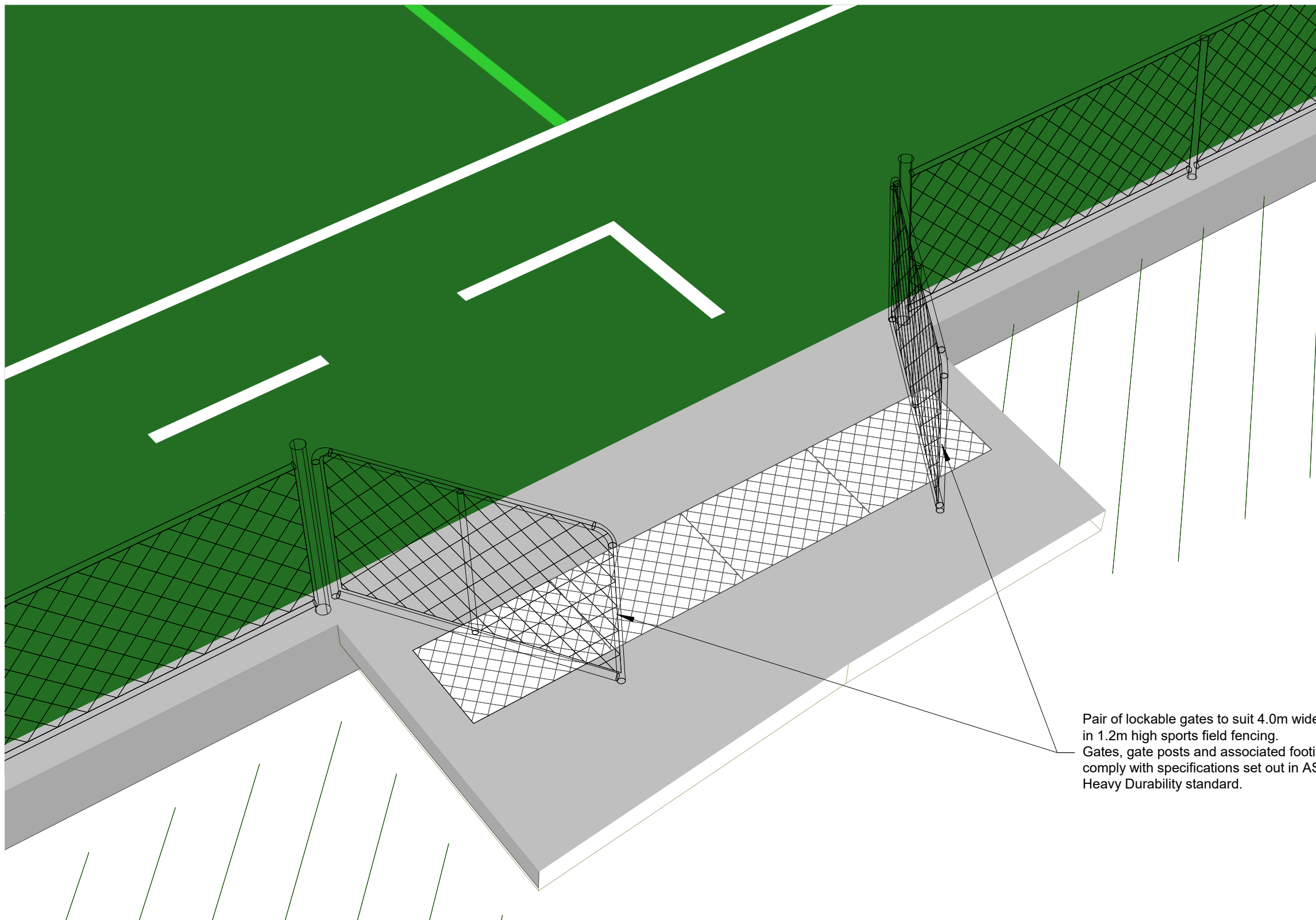
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EMEGENCY / MAINTENANCE VEHICLE ACCESS GATE ON SOUTHERN SIDE OF PLAYING FIELD

SCHEMATIC PERSPECTIVE VIEW (NOT TO SCALE)



Pair of lockable gates to suit 4.0m wide opening in 1.2m high sports field fencing. Gates, gate posts and associated footings to comply with specifications set out in AS 1725.5 Heavy Durability standard.

NOTES
 Concrete driveway to be ramped up to top of edge beam (200mm above finished level of playing surface).
 Lightweight removable ramp to be provided to allow vehicles to be driven onto and off the playing surface
 Install 4 no. 900mm x 600mm Class D galvanised steel grates in 80mm deep well.
 Construct sump with filter sock in well and piped drainage to existing.



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 KU-RING-GAI COUNCIL RFT9-2021
 STORMWATER MITIGATION AND SYNTHETIC SPORTS FIELD
 NORMAN GRIFFITHS OVAL DESIGN AND CONSTRUCT

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 SPORTS FIELD EMERGENCY / MAINTENANCE GATE



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SANDSTONE BLEACHERS ON NORTH EASTERN SIDE OF PLAYING FIELD

SCHEMATIC PERSPECTIVE VIEW (NOT TO SCALE)

Sandstone log bleachers set on 50mm crushed rock bedding. Logs typically 2.0m long x 500mm wide x 500mm deep.
 Select best sawn face for top of bleachers.
 Construct bleachers to provide 450mm high exposed front face.
 1.0m wide (nominal) x 75mm thick compacted granitic sand pathway behind each run of sandstone logs.

Form spoon drain in paving to carry water to grated pits.
 Adjust height of existing grated pit to flush with new paving.

2.4m high bio-security fencing (barbed selvage top and bottom)
 Fence to be erected by others.

2.0m wide x 150mm high sandstone steps



Lockable player access gate to suit 1.2m wide opening in 1.2m high sports field fencing.
 Gate, gate posts and associated footings to comply with specifications set out in AS 1725.5 Heavy Durability standard.



NOTES

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