MOTT MACDONALD

Auburn Basketball Centre

Church Street
Lidcombe NSW 2141

Cover Sheet

Development Application

Revision Date: 07-06-2024
Revision: P2

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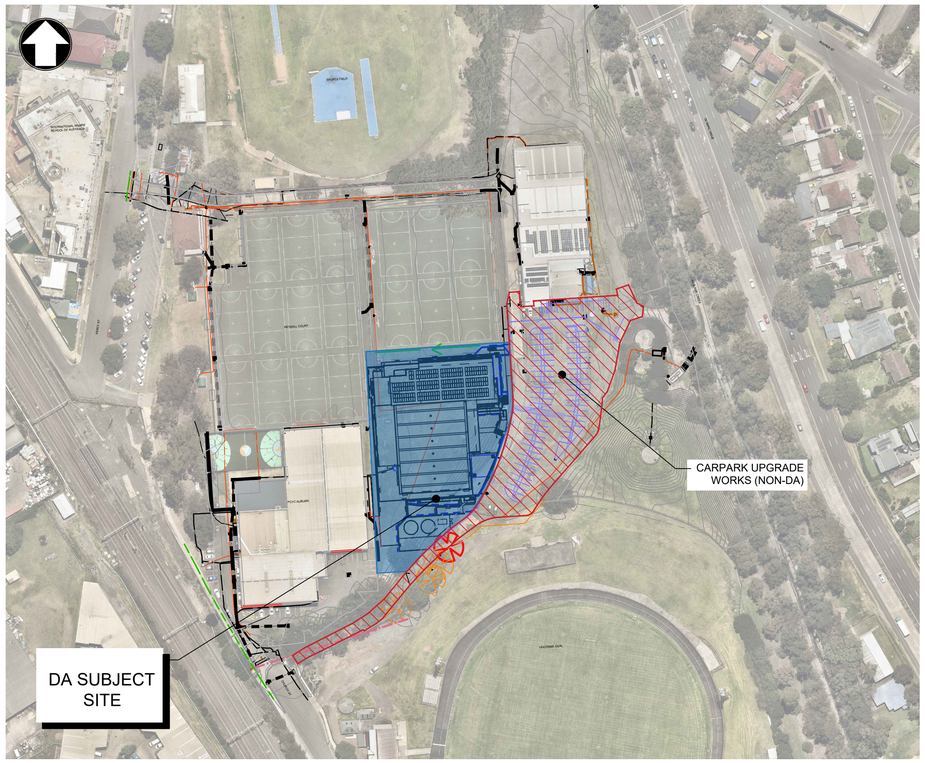

Locality Sketch
NTS

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	07.06.24	TN	REISSUED FOR APPROVAL	WP	BS
P1	29.02.24	TN	ISSUED FOR APPROVAL	WP	BS

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Client: Cumberland City Council

Project: Auburn Basketball Centre
Olympic Drive, Lidcombe

Title: Cover Sheet

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	
Scale at A1: N/A	Status: APR		Rev: P2	Security: STD	

Drawing Number: 102097-MMD-DA-00-DR-0001

General Notes

GN1 All work to be carried out in accordance with Cumberland City Council's standards and to the requirements of Council.

GN2 No work to be carried out on adjoining properties without written permission of property owner or responsible authority.

GN3 No trees are to be removed except for those noted on plan without written permission from Council.

GN4 All workmanship and materials shall comply with the National Construction Code of Australia and the relevant current Australian Standards.

GN5 Any discrepancies, omissions or errors shall be reported to the Superintendent for clarification before proceeding with the work.

GN6 Do NOT scale measurements from the drawings.

GN7 All compaction works for footpaths and pavements shall be done without the use of any form of vibrating machines or plant.

Siteworks Notes

SN1 Datum : Australian Height Datum (AHD)
Origin of levels : Vertical Benchmark SSM 99028 RL15.00
Origin of co-ordinates : Mapping Grid Of Australia (MGA)
Survey prepared by : RCS Group
Suite 1, 80 Conway Street, Lismore 2480
PO Box 4053 Goonellabah NSW 2480

SN2 The contractor must verify all dimensions and existing levels on site prior to commencement of work, and report any discrepancies to the superintendent.

SN3 All existing services (including any not shown on the plans) must be accurately located in position and level prior to any excavation. Any discrepancies shall be reported to the superintendent. minimum service clearances shall be maintained from the relevant service authority.

SN4 The contractor shall arrange for all setting out by a registered surveyor.

SN5 It is the contractors responsibility to notify the Department of Land and Property Information NSW, of any survey marks that will be destroyed in the construction of works.
Contact Head Office on 1300 052 637 www.lpi.nswgov.au and http://scims.lpi.nsw.gov.au/status_report_frames.html

SN6 The contractor shall obtain all regulatory authority approvals at their own expense.

SN7 Where new works abut existing, the contractor must ensure that a smooth and even profile, free from abrupt changes is obtained.

SN8 All disturbed areas shall be restored to their original condition, unless specified otherwise.

SN9 Excavated trenches shall be compacted to the same density as the adjacent natural material. Any subsidence's during the period to be rectified as directed by the superintendent.

SN10 Any existing trees which form part of the final landscaping plan will be protected from construction activities in accordance with the landscape architect's details and / or by -

Protecting them with barrier fencing or similar materials installed outside the drip line, ensuring that nothing is nailed to them, prohibiting paving, grading, sediment wash or placing of stockpiles within the drip line except under the following conditions -
Encroachment only occurs on one side and no closer to the trunk than either 1.5m or half the distance between the outer edge of the drip line and the trunk, which ever is the greater, a drainage system that allows air and water to circulate through the root zone (eg a gravel bed) is placed under all fill layers of more than 300mm care is taken not to cut roots unnecessarily nor to compact the soil around them.

SN11 Receptors for concrete and mortar slurries, paints, acid washings, light-weight waste materials and litter are to be emptied as necessary. Disposal of waste shall be in a manner approved by the superintendent or as specified in the works contract.

Existing Services Notes

ES1 Existing services have been plotted from supplied data and as such their accuracy cannot be guaranteed. It is the responsibility of the contractor to establish the location and level of all existing services prior to the commencement of any work. Any discrepancies shall be reported to the superintendent.

ES2 The contractor shall allow for the capping off, excavation and removal if required of all redundant existing services in areas affected by works within the contract area, as shown on the drawings unless directed otherwise by the superintendent.

ES3 The contractor shall ensure that at all times services to all buildings not affected by the works are not disrupted.

ES4 If required, the contractor shall construct temporary services to maintain existing supply to buildings remaining in operation during works to the satisfaction and approval of the superintendent. Once diversion is complete and commissioned the contractor shall remove all such temporary services and make good to the satisfaction of the superintendent and the relevant service authority.

ES5 Interruption to supply of existing services shall be done so as not to cause any inconvenience to the principal. The contractor is to gain approval from the superintendent for time of interruption - the contractor is responsible for all liaison.

ES6 All branch gas and water services under driveways and brick paving shall be located in Ø80mm uPVC sewer grade conduits extending a minimum of 500mm beyond the edge of paving.

ES7 Clearance and cover requirements shall be obtained from the relevant service authority before commencement of works and shall be adhered to at all times.

ES8 Care is to be taken when excavating near existing services. No mechanical excavations are to be undertaken over telecom or electrical services. Hand excavate in these areas only.

Earthworks Notes

EW1 All work shall comply with AS3798 (2007) - Guidelines on earthworks for commercial and residential developments.

EW2 All earthworks must be undertaken under 'Level 1 Supervision' in accordance with AS3798 (2007).

EW3 All work shall comply with the Civil Consult geotechnical report. Document Number: 20100-00-REP-01

EW4 Strip topsoil to expose naturally occurring engineering material and stockpile on site for reuse as directed by the superintendent.

EW5 All soft, wet or unsuitable material to be removed as directed by the superintendent and replaced with approved fill material.

EW6 All fill material shall be from a source approved by the superintendent and shall comply with the following -
a) free from organic and perishable matter,
b) maximum particle size 75mm,
c) plasticity index - between 2% and 15%.

EW7 All fill material shall be placed in maximum 200mm thick layers and compacted at optimum moisture content (+ or - 2%) to achieve a dry density determined in accordance with AS1289.5.1.1 - 2003 - methods of testing soils for engineering purposes of not less than the following standard minimum dry density -

location	standard dry density
under building slabs	98%
vehicular paved areas	100%
non-vehicular paved areas	98%
landscaped areas	95%

EW8 The contractor shall program the earthworks operation so that the working areas are adequately drained during the period of construction. The surface shall be graded and sealed off to remove depressions, roller marks and similar which would allow water to pond and penetrate the underlying material. any damage resulting from the contractor not observing these requirements shall be rectified by the contractor at their own expense.

EW9 Testing of the fill material shall be carried out by an approved NATA registered laboratory at the contractors expense.

EW10 Where the subgrade is unable to support construction equipment, or it is not possible to compact overlying pavement layers, only because of the subgrade moisture content, then the contractor shall condition or replace the material at the contractors discretion and expense.

EW11 Earthworks calculations are volumetric only and do not allow for bulking of excavated material. It is the contractors responsibility to make allowances for these items as part of the tender / works.

EW12 No allowance has been made for footings or foundations, retaining walls or trenching. It is the contractors responsibility to make allowances for these items as part of the tender / works.

Stormwater Notes

SW1 For residential subdivisions and public roads -

All uPVC drainage pipes in footways or accessways shall be DWV grade class SN8 in accordance with AS/NZS 1260:2009 - PVC-u pipes and fittings for drain, waste and vent application. heavy duty uPVC pipes to be in accordance with AS/NZS 1254 : 2010 - PVC pipes and fittings for storm and surface water applications may be used within allotments.

SW2 All interallotment stormwater drainage pipes shall be UPVC RRJ. All stormwater drainage pipes within council owned road reserve or land shall be RCP RRJ.

SW3 All pipe junctions up to and including Ø450mm and tapers, shall be via purpose made fittings (UNO).

SW4 Minimum grade to stormwater lines to be 1% (UNO).

SW5 Contractor to supply and install all fittings and specials including various pipe adaptors to ensure proper connection between dissimilar pipework.

SW6 All connections to existing drainage pits shall be made in a tradesman-like manner and the internal wall of the pit at the point of entry shall be cement rendered to ensure a smooth finish with no protrusions.

SW7 All in-situ concrete pits to be 32Mpa minimum at 28 days.

SW8 Pits and pipes in areas of salinity hazard shall have increased cover to any reinforcement.

SW9 Precast concrete pits may be installed in lieu of cast in-situ pits, when pipe junctions are accommodated within the overall dimensions of the pit, and approved by the superintendent.

SW10 Pits deeper than 1000mm shall have step irons installed in accordance with the local or statutory authority requirements.

SW11 Bedding shall be type H2 (UNO) for pipes not under pavements, and type HS2 for pipes under pavements in accordance with AS/NZS 3725 : 2007 - design for installation of buried concrete pipes.

SW12 Backfill trench with sand or approved granular backfill to 300mm (min) above the pipe. Where the pipe is under pavements backfill remainder of trench to pavement subgrade with sand or approved gravel sub-base compacted in 150mm layers to 98% standard maximum dry density. The contractor is to ensure compaction equipment is appropriate for the pipe class used.

SW13 Where stormwater lines pass under floor slabs DWV grade uPVC rubber ring joints are to be used (UNO).

SW14 Where subsoil drainage lines pass under floor slabs and vehicular pavements, unslotted uPVC DWV grade class SN8 pipe shall be used.

SW15 Provide 3m length of Ø100mm subsoil drainage line or 200 'Nylex' strip drain surrounded with 150mm of 20mm blue metal or gravel, and wrapped in 'Bidum' A24 geotextile filter fabric or approved equivalent, at invert of incoming upstream pipe on each pit.

Existing services and features

E1. The Contractor shall allow for the capping off, excavation and removal if required, of all existing services in areas affected by works within the contract area and as shown on the drawings, unless directed otherwise by the Superintendent.

E2. Prior to commencement of any works the Contractor shall gain approval of his programme for the relocation/construction of temporary services.

E3. Contractor shall construct temporary services to maintain existing supply to buildings remaining in operation during works to the satisfaction and approval of the superintendent. Once diversion is complete and commissioned the Contractor shall remove all such temporary services and make good to the satisfaction of the Superintendent.

E4. Interruption to supply of existing services shall be done so as not to cause any inconvenience to the principal. Contractor to gain approval of Superintendent for time of interruption.

Concrete Notes

General

CN1 Use "AS3972 - 2010 - General purpose and blended cements - Type GP" cement (UNO).

CN2 All concrete shall be subject to project control sample and testing to AS3600 - 2009 - concrete structures.

CN3 Consolidate all concrete, including footings and slabs on ground with mechanical vibrators.

CN4 Cure all concrete as follows -
- keep surfaces continuously wet for 3 days, then
- prevent moisture loss for the next 4 days using polythene sheeting or wet hessian protected from wind and traffic, and then allow drying out.
- curing compounds may be used provided that they comply with AS3799 and they do not affect floor finishes.
- PVA-based curing compounds are NOT acceptable.

CN5 Fix reinforcement as shown on drawings. The type and grade is indicated by a symbol as shown below -

N	hot rolled deformed bar, grade 500
R	plain round bar, grade 250
SL / RL	hard drawn wire fabric square or rectangular

following this symbol a numeral indicates the specified diameter.

CN6 Provide bar supports or spacers to provide concrete cover as detailed to all reinforcement.

Concrete Pavements

CN7 Concrete mix parameters -
maximum aggregate size 20mm
flexural strength at 28 days = 3.5 MPa, F'c= 32 MPa, (UNO)
flexural strength at 90 days = 3.85 MPa
max water/cement ratio = 0.55
max shrinkage limit = 650 micron strains (AS1012.13-1992)
min cement content = 300kg/m³
cement to be type "SL" (normal cement) to AS3972-2010
slump = 80mm

CN8 Early age saw cutting ('softcut') or similar shall be used for initial saw cut. It is to be performed as soon as the concrete has hardened sufficiently, to prevent excessive chipping, spalling, or tearing regardless of time or weather conditions.

CN9 Joint layout shall be as detailed on the plans.

CN10 Provide 10mm wide expansion joints between all buildings, other structures and pavements.

CN11 Bond breaker to be two (2) uniform coats of bitumen emulsion all over the exposed surface and on end.

CN12 Dowels and tie bars to meet strength requirements of structural grade steel in accordance with AS ISO 1302 - 2005 - geometrical product specifications.
Dowels and tie bars shall be -
straight,
to length specified,
all dowels to be hot dip galvanised,
sawn to length not cropped.

CN13 Dimensions of sealant reservoir dependant on the sealant type adopted. Superintendent approval to be obtained for sealant and reservoir dimensions and detail proposed by the contractor. Refer to plans for typical arrangement and sealant.

CN14 Prior to the placement of concrete in the adjacent slab, 'Ableflex' filler shall be adhered to the already cast and cleaned concrete face using an approved waterproof adhesive. Adhesive shall be liberally applied to the full face of the concrete slab to be covered by the filler, and on the full face of the filler to be adhered.

CN15 The base course shall be kept moist (not wet) by sprinkling with water immediately prior to pouring the concrete.

CN16 All work to be finished to satisfy its intended use as shown on the plans, and / or in accordance with the specification.

Kerbing Notes

CN17 All concrete kerbs to have a minimum characteristiccompressive strength F'c=25MPa (UNO).

CN18 All kerbs, dish drains, etc. to be constructed on 75mm minimum base course.(UNO on the Drawings)

CN19 Kerb expansion joints shall be formed from 10mm 'Ableflex' (or approved equivalent) for the full depth of the section.

CN20 Expansion joints shall be located at drainage pits, tangent points of curves and elsewhere at 12m maximum spacing (UNO).

CN21 Tooled joints shall be min 3mm wide and located at maximum 3m spacing.

CN22 Integral kerb joints shall match the location of the pavement jointing.

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	29.02.24	TN	ISSUED FOR APPROVAL	WP	BS

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Client: Cumberland City Council

Project: Auburn Basketball Centre
Olympic Drive, Lidcombe

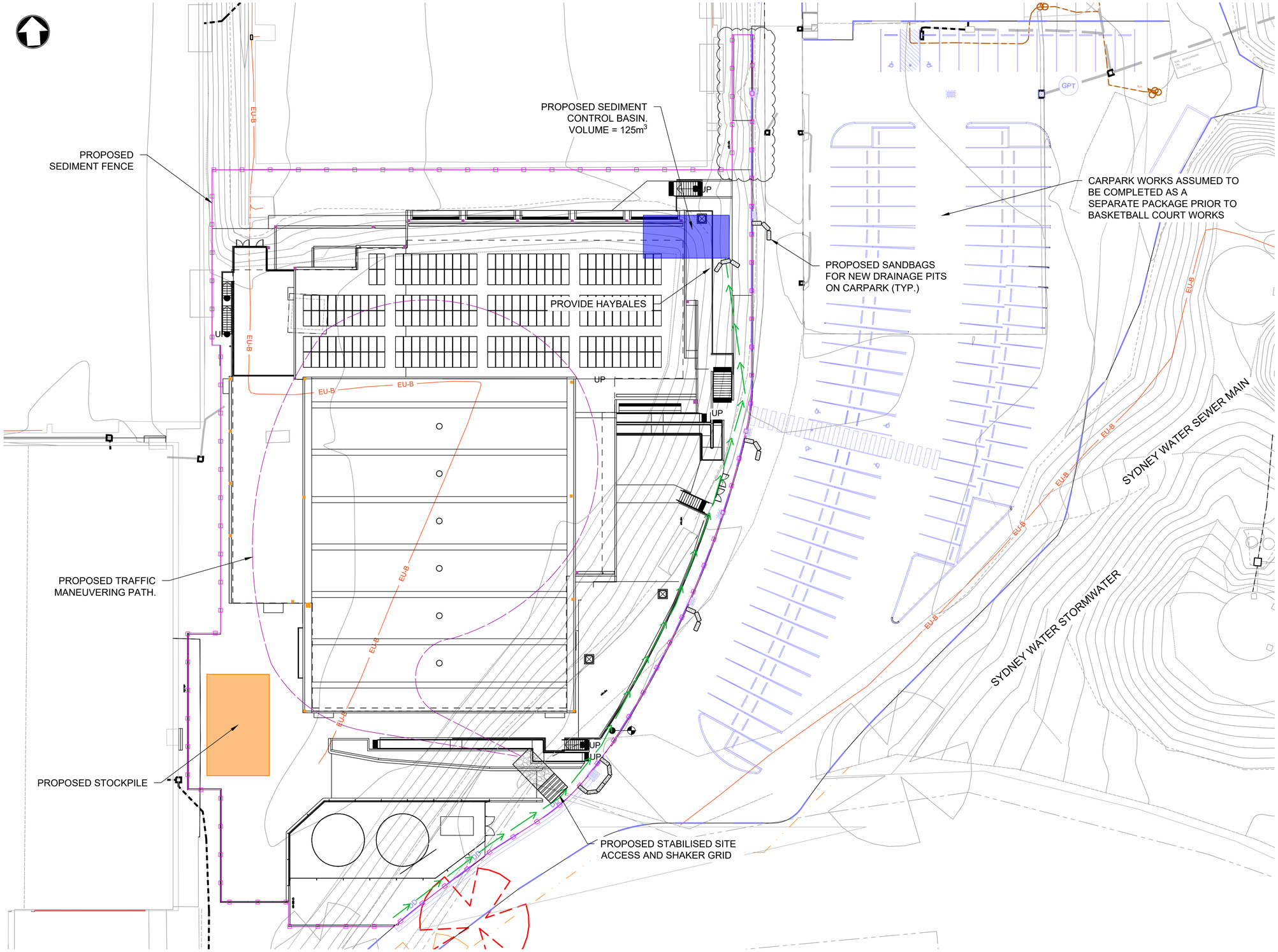
Title: General Notes

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	

Scale at A1	Status	Rev	Security
N/A	APR	P1	STD

Drawing Number: 102097-MMD-DA-00-DR-0002

Document Set ID: 11009186
Version: 1, Version Date: 18/08/2024



LEGEND

- TRAFFIC MANEUVERING PATH
- PROPOSED SEDIMENT FENCE
- PROPOSED CATCH DRAIN
- INSTALL SANBAGS SEDIMENT TRAPS
- INSTALL HAYBALE SEDIMENT TRAPS
- PROVIDE STABILISED SITE ACCESS AND SHAKER GRID
- PROPOSED STOCKPILE LOCATION
- PROPOSED SEDIMENT BASIN

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	07.06.24	TN	REISSUED FOR APPROVAL	WP	BS
P1	29.02.24	TN	ISSUED FOR APPROVAL	WP	BS

1:250 0 12.5m 25m

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Client: Cumberland City Council

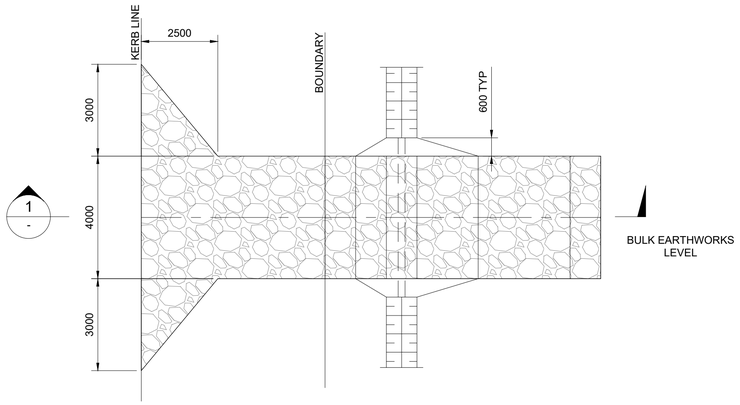
Project: Auburn Basketball Centre
Olympic Drive, Lidcombe

Title: Soil and Erosion Plan

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	
Scale at A1: 1:250	Status: APR		Rev: P2	Security: STD	

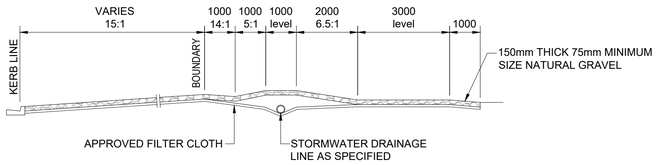
Drawing Number: 102097-MMD-DA-00-DR-0005

Document Set ID: 11009186
Version: 1, Version Date: 18/08/2024



Plan

1:100



SECTION 1 - 1

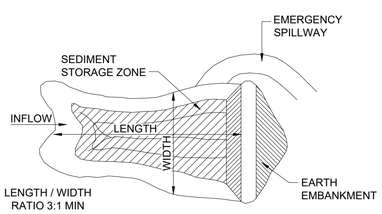
1:100

MAINTENANCE

- THE TEMPORARY ACCESS SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY.
- THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.

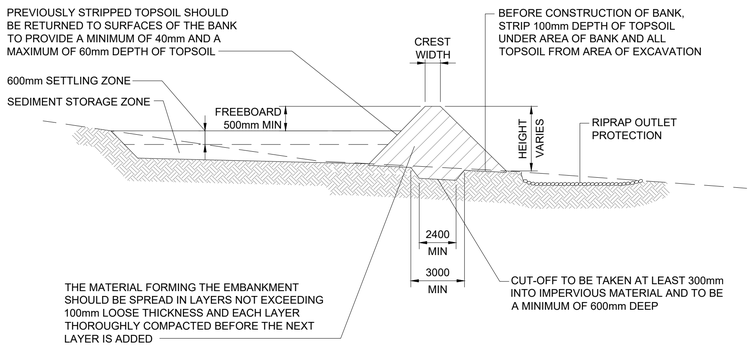
STABILISED CONSTRUCTION ENTRY / EXIT

AS SHOWN



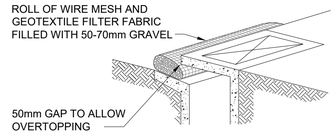
SEDIMENT BASIN (TYPICAL) PLAN - TYPE D AND F SOILS

NTS



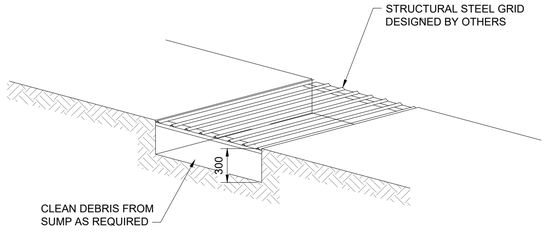
SEDIMENT BASIN (TYPICAL) CROSS SECTION - TYPE D AND F SOILS

NTS



SEDIMENT TRAP FOR KERB INLET (PORTABLE - GRAVEL)

NTS

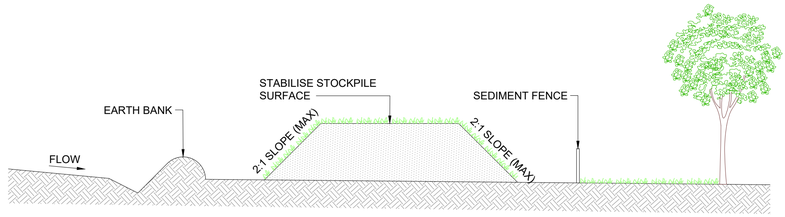


SHAKER PAD

NTS

SEDIMENT TRAP FOR KERB INLET (ON GRADE - SANDBAG)

NTS

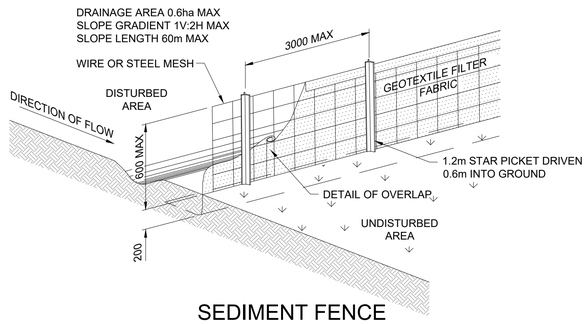


CONSTRUCTION NOTES

1. PLACE STOCKPILES AS DIRECTED BY THE SUPERINTENDENT.
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 E.S.C.P OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND INSTALL SEDIMENT FENCES 1m TO 2m DOWNSLOPE CONSISTENT WITH 'MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION' , ALSO KNOW AS 'THE BLUE BOOK'.

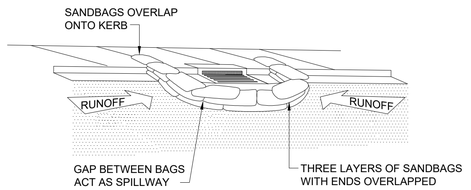
STOCKPILES

NTS



SEDIMENT FENCE (GEOTEXTILE FILTER FABRIC)

NTS



SEDIMENT TRAP FOR KERB INLET (AT LOW POINT - SANDBAG)

NTS

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Project: Auburn Basketball Centre
Olympic Drive, Lidcombe

Title: Soil and Erosion Details

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
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Scale at A1	Status	Rev	Security
AS SHOWN	APR	P1	STD

Drawing Number: 102097-MMD-DA-00-DR-0006

Refer 'Inset B'

Refer 'Inset A'

Refer 'Inset C'

BUILDING FFL: 11.34m AHD
BUILDING BEL: 11.09m AHD

SYDNEY WATER SEWER MAIN

SYDNEY WATER STORMWATER

LEGEND

BULK EARTHWORKS CUT AND FILL

- BULK EARTHWORKS CONTOUR (MAJOR)
- BULK EARTHWORKS CONTOUR (MINOR)
- BULK EARTHWORKS CONTOUR (CARPARK NON-DA)
- DA SITE BOUNDARY
- CARPARK UPGRADE WORKS BOUNDARY (NON-DA)

Depth Range Legend (0.1m)

- -999m to -1.0m
- -1.0m to -0.9m
- -0.9m to -0.8m
- -0.8m to -0.7m
- -0.7m to -0.6m
- -0.6m to -0.5m
- -0.5m to -0.4m
- -0.4m to -0.3m
- -0.3m to -0.2m
- -0.2m to -0.1m
- -0.1m to 0m
- 0m to 0.1m
- 0.1m to 0.2m
- 0.2m to 0.3m
- 0.3m to 0.4m
- 0.4m to 0.5m
- 0.5m to 0.6m
- 0.6m to 0.7m
- 0.7m to 0.8m
- 0.8m to 0.9m
- 0.9m to 1.0m
- 1.0m to 999m

NOTES

1. 100mm TOPSOIL STRIPPING IS ASSUMED.
2. PROPOSED STRUCTURAL SLAB, LANDSCAPE AND REMAINING PAVEMENT THICKNESS ASSUMED TO BE 250mm.
3. THE VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING:
   - BULKING FACTORS OF REMOVED CUT.
   - STORMWATER PIPE AND UTILITY TRENCHING EXCAVATION.
   - RETAINING WALL EARTHWORKS AND BACKFILL MATERIAL.
4. SYDNEY WATER SEWER MAIN DEPTHS TO BE CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION. SEWER MAIN SHOWN ON PLANS AND SECTIONS ARE INDICATIVELY SHOWN FROM QL-C AND QL-D SURVEY INFORMATION.

BULK EARTHWORKS BUILDING VOLUMES (DA)

Bulk earthworks cut = - 1323 m³ (cut)
Bulk earthworks fill = 697 m³ (fill)
Bulk earthworks balance = - 629 m³ (cut)

BULK EARTHWORKS CARPARK VOLUMES (NON-DA)

Bulk earthworks cut = - 811 m³ (cut)
Bulk earthworks fill = 64 m³ (fill)
Bulk earthworks balance = - 747 m³ (cut)

Inset C
1:250

Inset B
1:250

Inset A
1:250

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	29.02.24	TN	ISSUED FOR APPROVAL	WP	BS

1:250 0 12.5m 25m

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Client: Cumberland City Council

Project: Auburn Basketball Centre
Olympic Drive, Lidcombe

Title: Earthworks Cut and Fill Plan

Designed	ZW		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	
Scale at A1	1:250	Status	APR	Rev	P1
Security	STD				

Drawing Number: 102097-MMD-DA-00-DR-0010

EXISTING UTILITY PITS TO BE RAISED TO CARPARK FINISH SURFACE LEVEL (TYP.)

Refer 'Inset B'

Refer 'Inset A'

FOR PROPOSED CARPARK LAYOUT AND SWEPT PATH DETAILS REFER TO ARCHITECTURAL PACKAGE (NOT-DA)

CARPARK LEVELS TO TIE INTO EXISTING

NEW KERB ONLY AROUND RAINGARDEN

EXISTING KERB AND CARPARK FEATURES TO BE REMOVED (TYP.)

CARPARK RE-GRADING WORKS NOT SUBJECT TO DA. WORKS ARE SHOWN FOR REFERENCE ONLY.

NEW KERB RAMP TO COUNCIL STANDARDS

EXISTING ELECTRICAL CONDUITS. FURTHER INVESTIGATION REQUIRED FOR IMPACT ASSESSMENT. NOT SUBJECT TO DA.

PROPOSED WORKS UNDERGOING SYDNEY WATER IN-SCOPE APPROVAL

SYDNEY WATER SEWER MAIN

SYDNEY WATER STORMWATER

PROPOSED PAVEMENT TO SLOPE TOWARDS TRENCH DRAINS AND DRAINAGE PITS. MIN 1% FALL (TYP.)

PROPOSED LANDSCAPE AREA. REFER TO LANDSCAPE PACKAGE FOR FINISH DETAILS.

PROPOSED RETAINING WALLS TO BE DESIGNED BY STRUCTURAL ENGINEER IN NEXT STAGE OF DESIGN

PROPOSED CONCRETE KERB ONLY STOPS AT PIT

PROPOSED ACCESS RAMP LEVEL WILL BE FLUSH WITH ASPHALT PAVEMENT AT CARPARK

EXISTING TREE TO BE RETAINED

NEW CARPARK ACCESS ROAD TO TIE INTO EXISTING ROAD

NEW STANDARD KERB ONLY TO TIE INTO EXISTING KERB ALIGNMENT

TOK RL 9.70m

TOW RL 11.30m

TOK RL 9.82m

TOW RL 11.20m

TOW RL 11.23m

TOK RL 9.93m

TOW RL 11.279m

TOW RL 11.254m

BOW RL 10.13m

TOW RL 11.35m

BOW RL 10.185m

RL 11.264m

RL 11.29m

RL 11.37m

RL 11.34m

RL 11.30m

LEGEND

- DA SITE BOUNDARY
- PROPOSED TRENCH DRAIN
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- PROPOSED CATCH DRAIN
- PROPOSED SUBSOIL DRAINAGE
- PROPOSED Ø100 DOWNPIPE AND CONNECTING DRAINAGE PIPE
- PROPOSED Ø150 DOWNPIPE AND CONNECTING DRAINAGE PIPE
- UNDERGROUND OSD TANK
- RW PROPOSED RETAINING WALL
- KO PROPOSED CONCRETE KERB ONLY
- BUILDING AREA
- PROPOSED LANDSCAPE AREA
- PROPOSED CONCRETE AREA
- PROPOSED CONCRETE KERB RAMP

PROPOSED CARPARK WORKS (NOT SUBJECT TO DA)

- DD PROPOSED DISH DRAIN
- PROPOSED DRAINAGE PIPE
- CARPARK UPGRADE ROAD AREA
- PROPOSED VEGETATED SWALE
- PROPOSED BIORETENTION
- PROPOSED DRAINAGE PITS
- ABANDONED LINE
- KO PROPOSED CONCRETE KERB ONLY

Inset A
1:250

Inset B
1:250

Inset C
1:250

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	07.06.24	TN	REISSUED FOR APPROVAL	WP	BS
P1	29.02.24	TN	ISSUED FOR APPROVAL	WP	BS

1:250 0 12.5m 25m

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Client: Cumberland City Council

Project: Auburn Basketball Centre
Olympic Drive, Lidcombe

Title: General Arrangement Plan

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	
Scale at A1	1:250	Status	APR	Rev	P2
Security	STD				

Drawing Number: 102097-MMD-DA-00-DR-0015

NEW 0.3m WIDE CATCH DRAIN TO CONNECT TO EXISTING SWALE BETWEEN NETBALL COURTS

EXISTING DRAINAGE PITS AND PIPES TO BE REMOVED/ABANDONED IN CARPARK PACKAGE

NEW 450x900 GRATED INLET PIT RL 9.51 IL 8.59

ACO K200 TRENCH DRAIN WITH 0.5% LONGITUDINAL FALL. DRAINAGE OUTLET FROM TRENCH DRAIN CONNECTING TO OSD

NEW DRAINAGE PIPE TO CONNECT TO EXISTING COUNCIL DRAINAGE PIT. RL 9.00 IL 8.42

EXISTING DRAINAGE PIPE DISCHARGES TO HASLAMS CREEK

NEW 900x900 JUNCTION SURFACE INLET PIT RL 9.10 IL 8.47

NEW CDS 1009 GPT

NEW 35m² BIORETENTION TO TREAT STORMWATER AT END OF SWALE

NEW 450x900mm GRATED INLET PIT RL 9.56 IL 8.66

NEW Ø225 uPVC DRAINAGE PIPE@ 1%

NEW 900x900 OVERFLOW PIT

NEW VEGETATED SWALE 0.15m DEPTH WITH 1 IN 4 BATTERS.

Ø100 SUBSOIL FOR RETAINING WALLS (TYP.)

NEW UNDERGROUND 40m² OSD. OSD VOLUME = 70m³

Ø100 uPVC DOWNPIPE CONNECTIONS. REFER TO HYDRAULIC PLANS FOR DETAILS. (TYP.)

NEW TRENCH DRAIN OUTLET CONNECT TO OSD

EXISTING PIT AND PIPES TO BE RETAINED

ROOF DOWNPIPE ASSUMED TO DISCHARGE TO ROOF CATCHMENT BELOW

EXISTING DRAINAGE PITS AND PIPES TO BE REMOVED/ABANDONED IN CARPARK PACKAGE

NEW 450x900mm GRATED INLET PIT RL 9.72 IL 8.79

ROOF CATCHMENT ASSUMED TO CONVEY TO RAINWATER TANK

NEW TRENCH DRAIN OUTLET OSD

NEW 450x900mm GRATED INLET PIT RL 9.68 IL 8.84

NEW TRENCH DRAIN OUTLET CONNECTION TO Ø150 uPVC CARRIER PIPE

INDICATIVE LOCATION OF 20kL RAINWATER TANK. OVERFLOW TO CONNECT TO STORMWATER SYSTEM.

NEW 450x900mm GRATED INLET PIT RL 9.72 IL 8.89

SOUTH OSD TANK

Ø225 uPVC DRAINAGE PIPE OUTLET FROM OSD @ 1%

NEW SUBSOIL DRAINAGE TO CONNECT TO Ø150 uPVC PIPE

NEW UNDERGROUND 100m² OSD. OSD VOLUME = 160m³

ACO K200 TRENCH DRAIN WITH 0.5% LONGITUDINAL FALL. DRAINAGE OUTLETS FROM TRENCH DRAIN CONNECTING TO Ø225 uPVC CARRIER PIPE BELOW

PROPOSED RETAINING WALL SUBSOIL DRIANAGE

NEW Ø100 SUBSOIL DRAINAGE PIPE TO CONNECT TO Ø150 uPVC CARRIER PIPE

NEW 900x900mm VEE SHAPED GRATED INLET PIT RL 9.79 IL 9.01

NEW CONCRETE DISH DRAIN

SYDNEY WATER SEWER MAIN

SYDNEY WATER STORMWATER

LEGEND

- DA SITE BOUNDARY
- PROPOSED TRENCH DRAIN
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- PROPOSED CATCH DRAIN
- PROPOSED SUBSOIL DRAINAGE
- PROPOSED Ø100 DOWNPIPE AND CONNECTING DRAINAGE PIPE
- PROPOSED Ø150 DOWNPIPE AND CONNECTING DRAINAGE PIPE
- UNDERGROUND OSD TANK
- RW — PROPOSED RETAINING WALL
- KO — PROPOSED CONCRETE KERB ONLY
- PROPOSED CONCRETE KERB RAMP

PROPOSED CARPARK WORKS (NOT SUBJECT TO DA)

- DD — PROPOSED DISH DRAIN
- PROPOSED DRAINAGE PIPE
- CARPARK UPGRADE ROAD AREA
- PROPOSED VEGETATED SWALE
- PROPOSED BIORETENTION
- PROPOSED DRAINAGE PITS
- ABANDONED LINE
- KO — PROPOSED CONCRETE KERB ONLY
- GPT — GROSS POLLUTANT TRAP

NOTES

1. INSTALL SUBSOIL BEHIND RETAINING WALL AND UNDERNEATH SWALE.
2. REFER TO 102097-MMD-DA-00-DR-0020 FOR CATCHMENT PLAN.
3. REFER TO 102097-MMD-DA-00-DR-0026 AND DR-0027 FOR OSD TANK DETAILS
4. REFER TO HYDRAULIC ENGINEERING DRAWINGS FOR ROOF DRAINAGE
5. ALL EXISTING STORMWATER PIT AND PIPE TO BE RETAINED UNLESS NOTED OTHERWISE.
6. CONTRACTOR TO ADJUST SERVICE LIDS TO SUIT NEW LEVELS AND ACQUIRE NECESSARY APPROVALS FROM UTILITY ASSET OWNERS.
7. LANDSCAPE DRAINAGE DETAIL TO BE PROVIDED BY LANDSCAPE ARCHITECT DURING DETAILED DESIGN STAGE.
8. DETAILED SURVEY ON DEPTH AND LOCATION OF EXISTING STORMWATER ASSETS REQUIRED DURING DETAILED DESIGN STAGE.

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	07.06.24	TN	REISSUED FOR APPROVAL	WP	BS
P1	29.02.24	TN	ISSUED FOR APPROVAL	WP	BS

1:250 0 12.5m 25m

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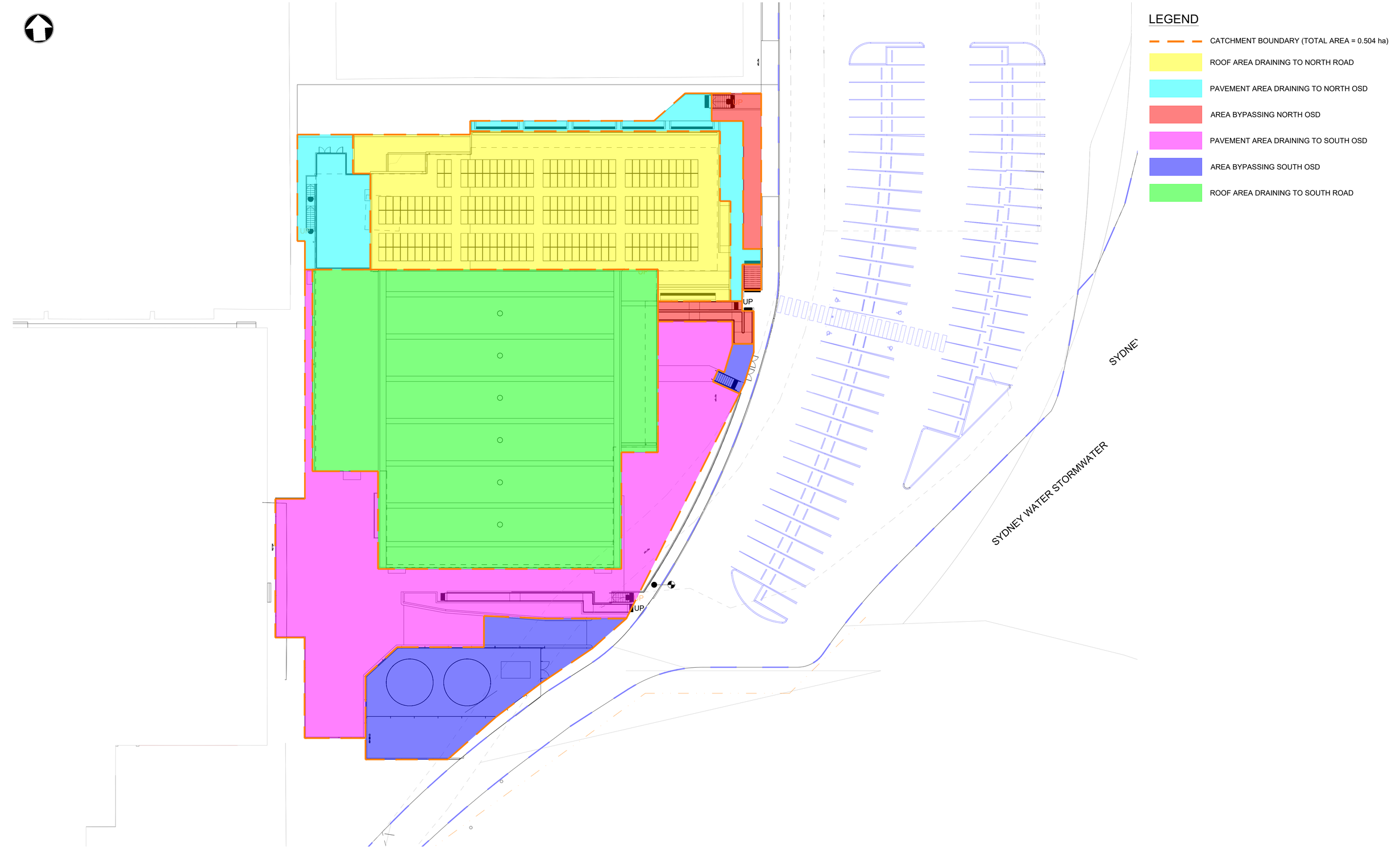
Client: Cumberland City Council

Project: Auburn Basketball Centre
Title: Olympic Drive, Lidcombe
Stormwater Plan

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	
Scale at A1: 1:250	Status: APR		Rev: P2	Security: STD	

Drawing Number: 102097-MMD-DA-00-DR-0017

Document Set ID: 11009186
Version: 1, Version Date: 18/08/2024



Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	29.02.24	TN	ISSUED FOR APPROVAL	WP	BS

1:250 0 12.5m 25m

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Client: Cumberland City Council

Project: Auburn Basketball Centre
Olympic Drive, Lidcombe

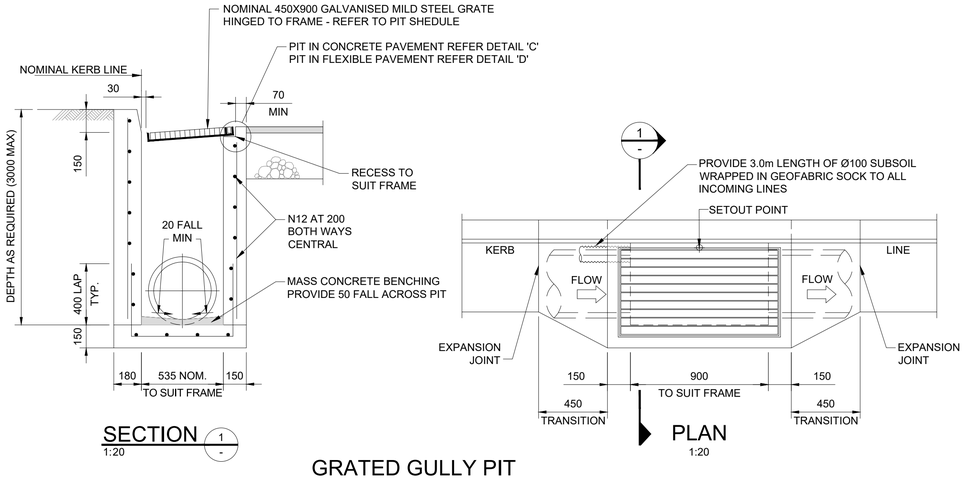
Title: Roof Plan and OSD Catchment Plan

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	

Scale at A1	Status	Rev	Security
1:250	APR	P1	STD

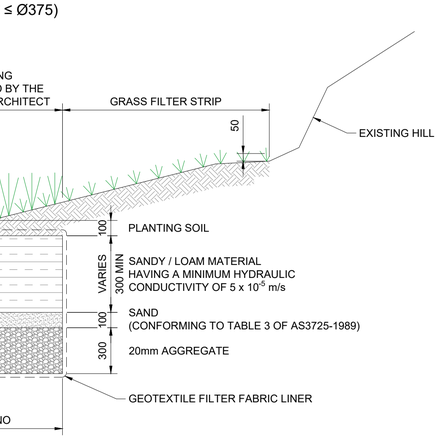
Drawing Number: 102097-MMD-DA-00-DR-0020

Document Set ID: 11009186
Version: 1, Version Date: 18/08/2024



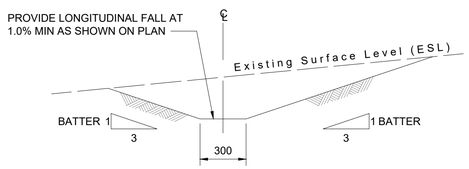
GRATED GULLY PIT

(PIPE SIZES ≤ Ø375)



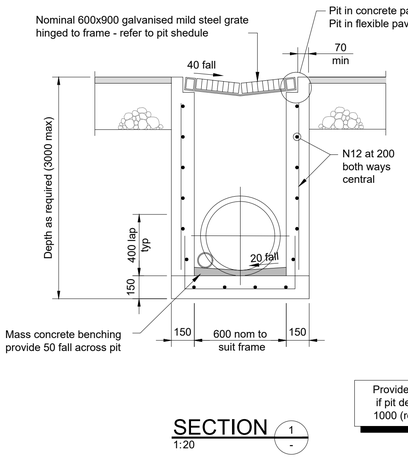
BIORETENTION SWALE

1:20



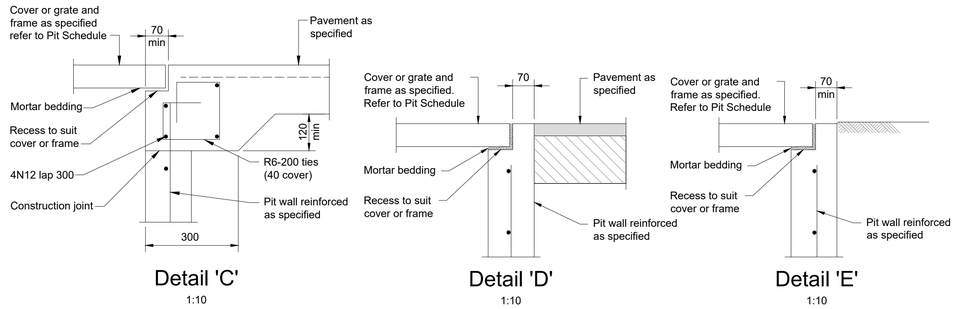
CATCH DRAIN

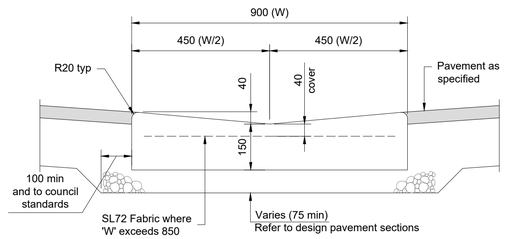
1:20



Surface inlet / junction pit in dish drain

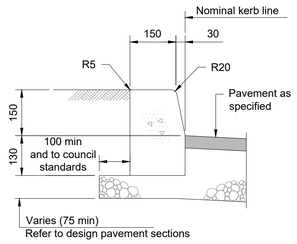
(pipe sizes ≤ Ø450)





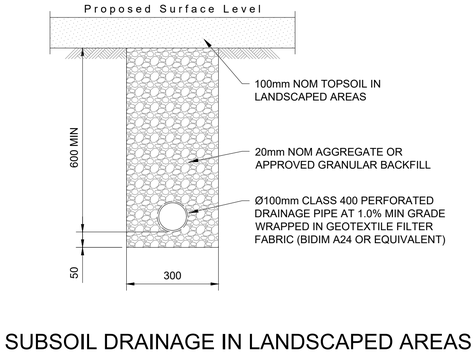
Dish Drain (DD)

1:10



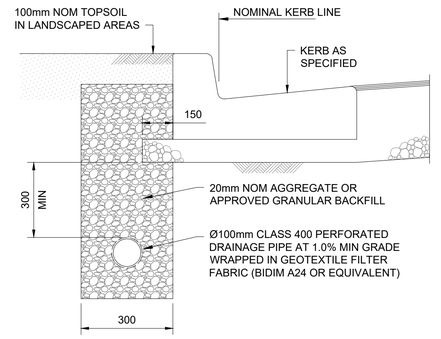
Kerb Only (KO)

1:10



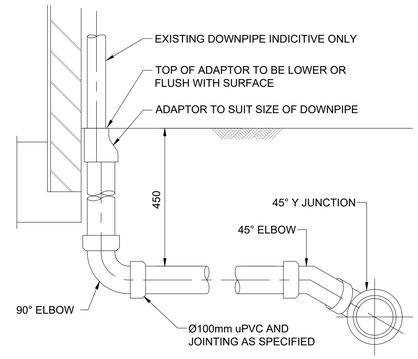
SUBSOIL DRAINAGE IN LANDSCAPED AREAS

1:10



SUBSOIL DRAINAGE BEHIND KERBS

1:10



uPVC DOWNPIPE CONNECTION

1:10

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	29.02.24	TN	ISSUED FOR APPROVAL	WP	BS

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Client: Cumberland City Council

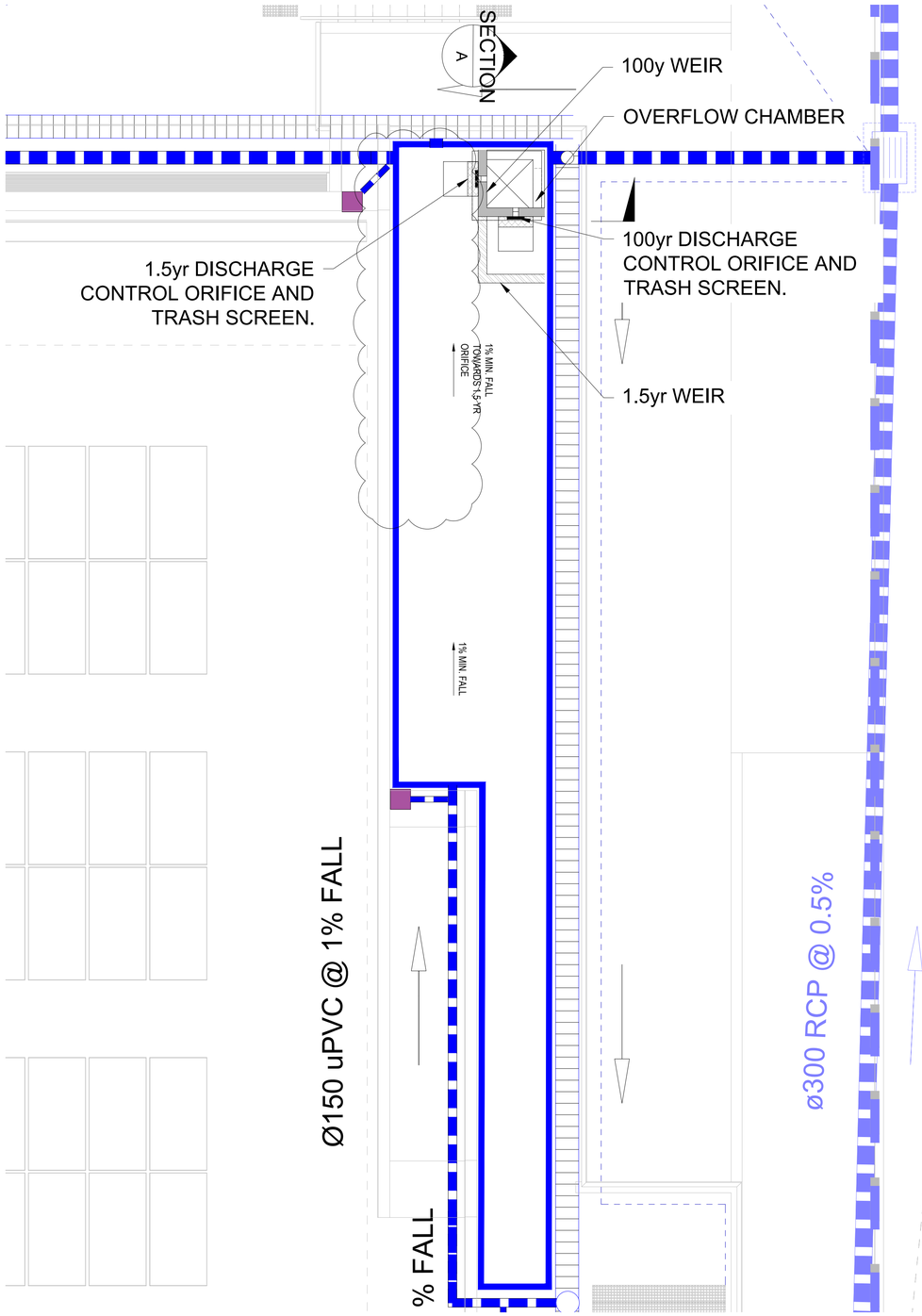
Project: Auburn Basketball Centre
Olympic Drive, Lidcombe
Siteworks and Stormwater Details

Title

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	
Scale at A1: AS SHOWN	Status: APR		Rev: P1	Security: STD	

Drawing Number: 102097-MMD-DA-00-DR-0025

Document Set ID: 11009186
Version: 1, Version Date: 18/08/2024



NORTH OSD TANK BASE PLAN

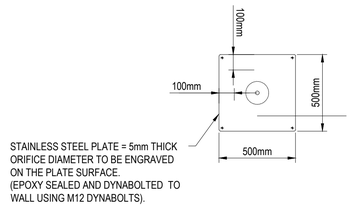
SCALE - 1:50

OSD TANK - DETAIL

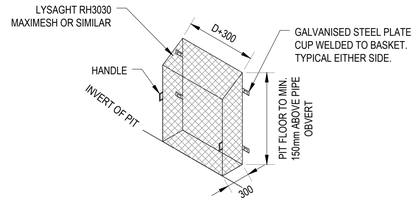
1.5 YR ARI ORIFICE
ORIFICE SIZE = 45mm
ORIFICE CL = 8.801
1.5YR ARI TWL = 10.124m
$DISCHARGE_{TANK}$ = 4.8L/Sec ($Q_{1.5}$)

100 YR ARI ORIFICE
ORIFICE SIZE = 77mm
ORIFICE CL = 8.89
100YR ARI TWL = 10.901 m
$DISCHARGE_{TANK}$ = 14.06L/Sec (Q_{100})

REFER CIVIL REPORT FOR DETAILS.
ORIFICE EQUATION: $Q=CA(2gh)^{0.5}$



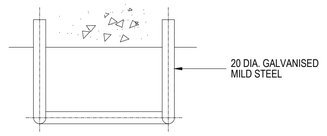
OSD ORIFICE PLATE DETAIL
1 : 20



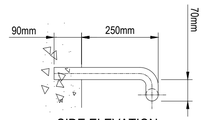
SCREEN MESH DETAILS
NOT TO SCALE

Note:
ALL WALLS FORMING THE DETENTION BASIN SHALL BE CONSTRUCTED WHOLLY WITHIN THE PROPERTY BOUNDARIES OF THE SITE BEING DEVELOPED.

FRONT ELEVATION

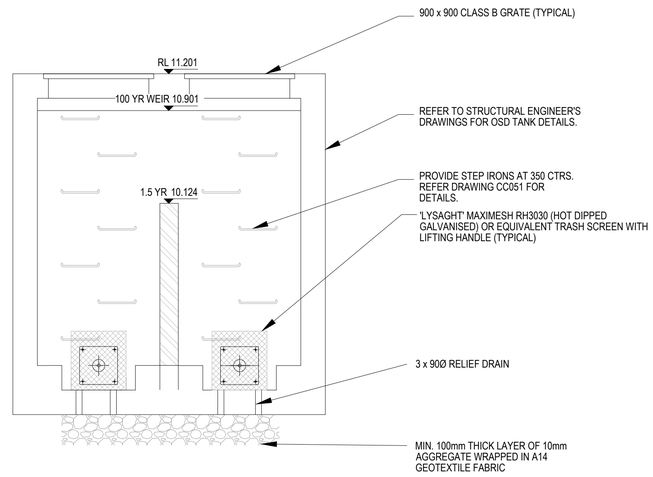


PLAN



SIDE ELEVATION

STEP IRON DETAIL
NTS



SECTION A - NORTH OSD TANK

SCALE 1:25

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	07.06.24	TN	REISSUED FOR APPROVAL	WP	BS
P1	29.02.24	TN	ISSUED FOR APPROVAL	WP	BS

1:50 0 2500mm 5000mm

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Client: Cumberland City Council

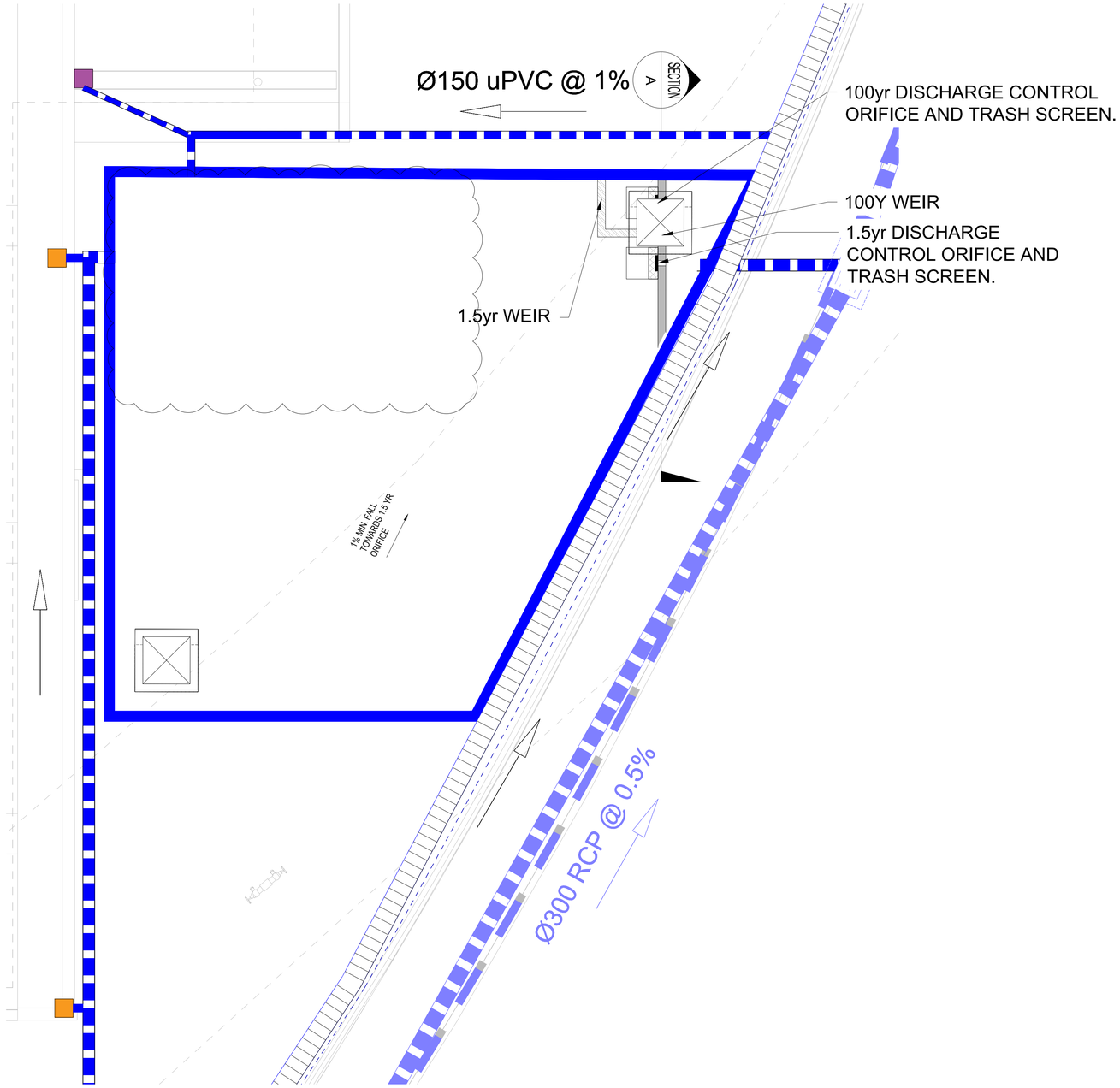
Project: Auburn Basketball Centre
Title: Olympic Drive, Lidcombe
Onsite Detention Sections
Sheet 1 of 2

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	
Scale at A1: AS SHOWN	Status: APR		Rev: P2	Security: STD	

Drawing Number: 102097-MMD-DA-00-DR-0026

Document Set ID: 11009186
Version: 1, Version Date: 18/08/2024

Note:
ALL WALLS FORMING THE DETENTION BASIN SHALL BE CONSTRUCTED WHOLLY WITHIN THE PROPERTY BOUNDARIES OF THE SITE BEING DEVELOPED.

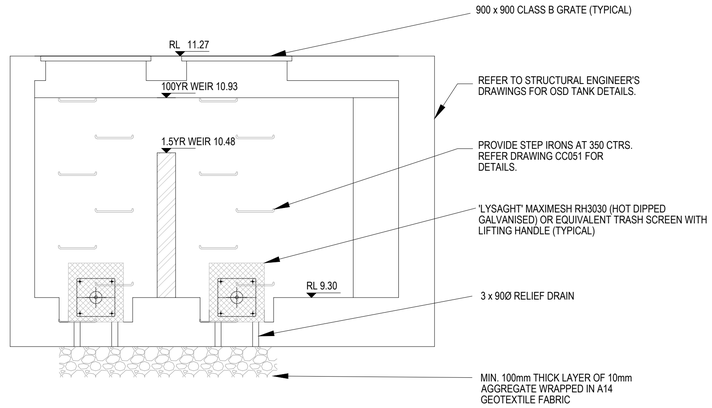


OSD TANK - DETAIL

1.5 YR ARI ORIFICE
ORIFICE SIZE = 70mm
ORIFICE CL = 9.30
1.5YR ARI TWL = 10.48m
DISCHARGE$_{TANK}$ = 11.2 L/Sec ($Q_{1.5}$)

100 YR ARI ORIFICE
ORIFICE SIZE = 122mm
ORIFICE CL = 9.30
100YR ARI TWL = 10.93 m
DISCHARGE$_{TANK}$ = 33.62 L/Sec (Q_{100})

REFER CIVIL REPORT FOR DETAILS.
ORIFICE EQUATION: $Q=CA(2gh)^{0.5}$



SOUTH OSD TANK BASE PLAN

SCALE - 1:50

SECTION A - SOUTH OSD TANK

NOT TO SCALE

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	07.06.24	TN	REISSUED FOR APPROVAL	WP	BS
P1	29.02.24	TN	ISSUED FOR APPROVAL	WP	BS

1:50 0 2500mm 5000mm

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W www.mottmac.com

Client: Cumberland City Council

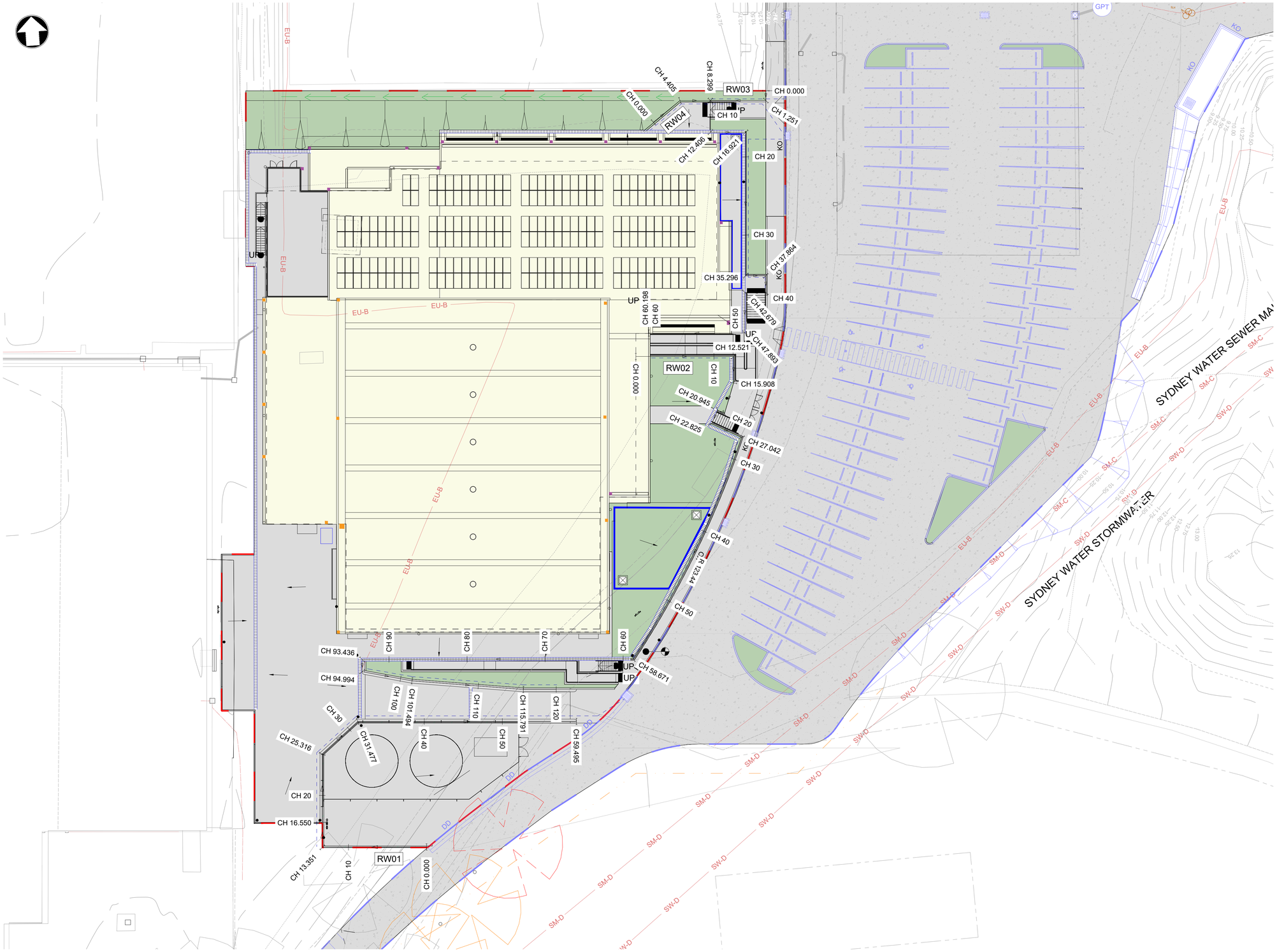
Project: Auburn Basketball Centre
Title: Olympic Drive, Lidcombe
Onsite Detention Sections
Sheet 2 of 2

Designed	WP	Eng check	WP
Drawn	TN	Coordination	JL
Dwg check	WP	Approved	BS

Scale at A1	Status	Rev	Security
AS SHOWN	APR	P2	STD

Drawing Number: 102097-MMD-DA-00-DR-0027

Document Set ID: 11009186
Version: 1, Version Date: 18/08/2024



LEGEND

- DA SITE BOUNDARY
- PROPOSED TRENCH DRAIN
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- PROPOSED CATCH DRAIN
- PROPOSED SUBSOIL DRAINAGE
- PROPOSED Ø100 DOWNPIPE AND CONNECTING DRAINAGE PIPE
- PROPOSED Ø150 DOWNPIPE AND CONNECTING DRAINAGE PIPE
- UNDERGROUND OSD TANK
- RW — PROPOSED RETAINING WALL
- KO — PROPOSED CONCRETE KERB ONLY
- BUILDING AREA
- PROPOSED LANDSCAPE AREA
- PROPOSED CONCRETE AREA
- PROPOSED CONCRETE KERB RAMP

PROPOSED CARPARK WORKS (NOT SUBJECT TO DA)

- DD — PROPOSED DISH DRAIN
- PROPOSED DRAINAGE PIPE
- CARPARK UPGRADE ROAD AREA
- PROPOSED VEGETATED SWALE
- PROPOSED BIORETENTION
- PROPOSED DRAINAGE PITS
- X X — ABANDONED LINE
- KO — PROPOSED CONCRETE KERB ONLY
- TREE TO BE REMOVED
- TREE SUBJECT TO TREE ROOT INVESTIGATION

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	07.06.24	TN	ISSUED FOR APPROVAL	WP	BS

1:250 0 12.5m 25m

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Client: Cumberland City Council

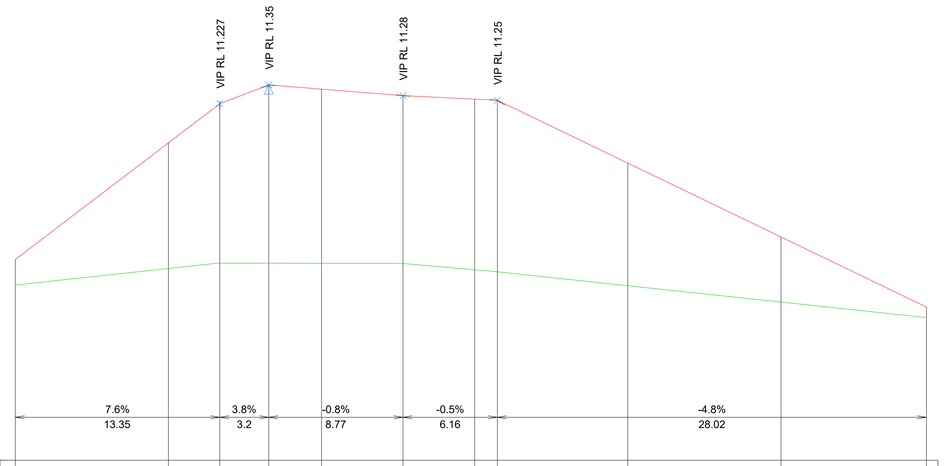
Project: Auburn Basketball Centre
Olympic Drive, Lidcombe

Title: Retaining Wall Plan

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	
Scale at A1	1:250	Status	APR	Rev	P1	Security	STD

Drawing Number: 102097-MMD-DA-00-DR-0035

Document Set ID: 11009186
Version: 1, Version Date: 18/08/2024



HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)

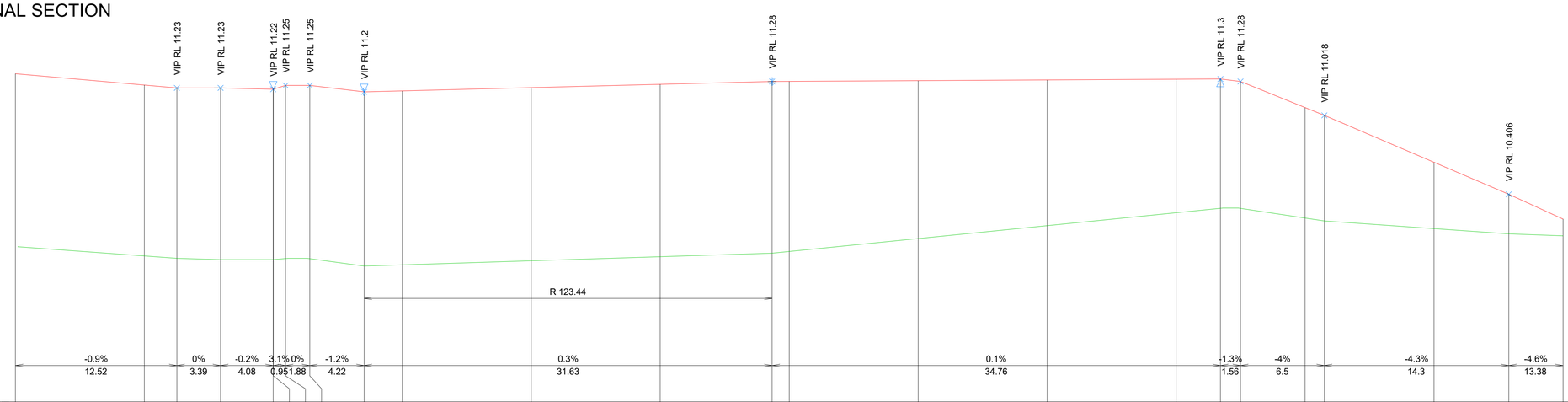
VERTICAL GEOMETRY GRADE (%) / VERTICAL GEOMETRY LENGTH (m): 7.6% / 13.35 | 3.8% / 3.2 | -0.8% / 8.77 | -0.5% / 6.16 | -4.8% / 28.02

DATUM RL = 8.900

TOP OF WALL LEVEL	10.211	10.972	11.227	11.350	11.322	11.280	11.257	11.250	10.839	10.358	9.900	
BOTTOM OF WALL LEVEL	10.048	10.153	10.186	10.186	10.186	10.184	10.144	10.130	10.048	9.950	9.857	
RETAINING WALL HEIGHT	0.163	0.819	1.041	1.164	1.137	1.096	1.114	1.120	0.791	0.408	0.043	
CONTROL LINE CHAINAGE	0	10	13.351	16.55	20	25.316	30	31.477	40	50	59.495	

A1 SCALE: H 1:200, V 1:20

RW01 - LONGITUDINAL SECTION



HORIZONTAL CURVE DATA: R 123.44

VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)

VERTICAL GEOMETRY GRADE (%) / VERTICAL GEOMETRY LENGTH (m): -0.9% / 12.52 | 0% / 3.39 | -0.2% / 4.08 | 3.1% / 0.95 | 0% / 1.88 | -1.2% / 4.22 | 0.3% / 31.63 | 0.1% / 34.76 | -1.3% / 1.56 | -4% / 6.5 | -4.3% / 14.3 | -4.6% / 13.38

DATUM RL = 8.800

TOP OF WALL LEVEL	11.340	11.252	11.230	11.230	11.220	11.220	11.250	11.250	11.200	11.207	11.233	11.258	11.280	11.281	11.287	11.292	11.298	11.300	11.280	11.078	11.018	10.654	10.406	10.214
BOTTOM OF WALL LEVEL		9.930	9.911	9.900	9.900	9.902	9.908	9.907	9.853	9.860	9.891	9.922	9.950	9.964	10.065	10.166	10.267	10.298	10.298	10.223	10.200	10.141	10.100	10.085
RETAINING WALL HEIGHT		1.323	1.319	1.330	1.320	1.318	1.342	1.343	1.347	1.348	1.342	1.336	1.330	1.316	1.221	1.126	1.031	1.002	0.982	0.855	0.818	0.514	0.306	0.130
CONTROL LINE CHAINAGE	0	10	12.521	15.908	19.991	20	20.945	22.825	27.042	30	40	50	58.671	60	70	80	90	93.436	94.994	100	101.494	110	115.791	120

A1 SCALE: H 1:200, V 1:20

RW02 - LONGITUDINAL SECTION

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	07.06.24	TN	ISSUED FOR APPROVAL	WP	BS

1:1000 0 50m 100m

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Client: Cumberland City Council

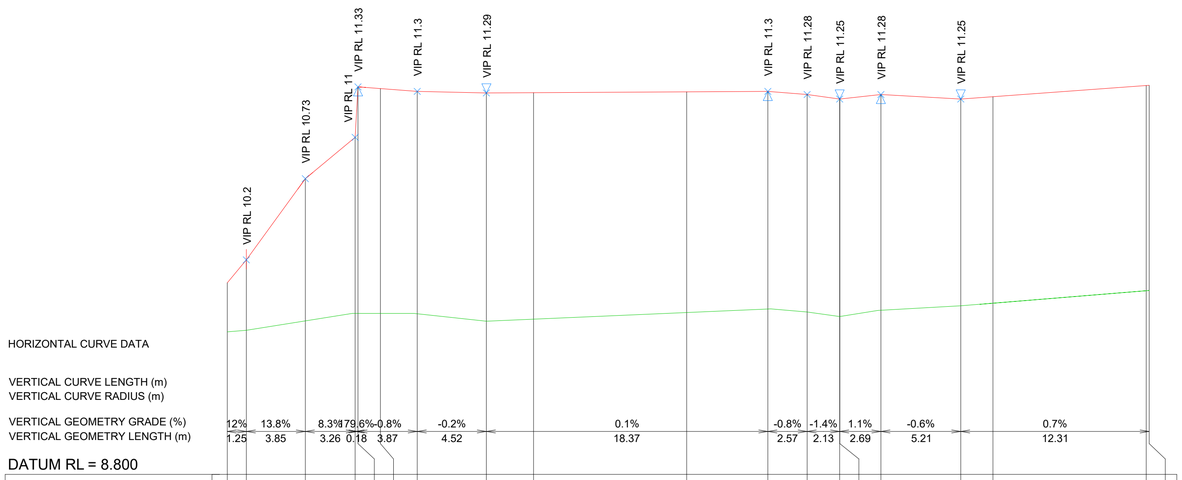
Project: Auburn Basketball Centre
Olympic Drive, Lidcombe
Retaining Wall Section
Sheet 1 of 2

Title

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	
Scale at A1	1:1000	Status	APR	Rev	P1	Security	STD

Drawing Number: 102097-MMD-DA-00-DR-0040

Document Set ID: 11009186
Version: 1, Version Date: 18/08/2024



HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)

VERTICAL GEOMETRY GRADE (%)	12%	13.8%	8.3%	79.6%	-0.8%	-0.2%	0.1%	-0.8%	-1.4%	1.1%	-0.6%	0.7%
VERTICAL GEOMETRY LENGTH (m)	1.25	3.85	3.26	0.18	3.87	4.52	18.37	2.57	2.13	2.69	5.21	12.31

DATUM RL = 8.800

TOP OF WALL LEVEL	10.050	10.200	10.730	11.000	11.330	11.319	11.300	11.290	11.292	11.297	11.300	11.280	11.250	11.250	11.280	11.250	11.265	11.339	11.340					
BOTTOM OF WALL LEVEL	9.730	9.739	9.803	9.850	9.850	9.850	9.848	9.802	9.814	9.858	9.879	9.862	9.832	9.833	9.871	9.899	9.917	9.988	9.990					
RETAINING WALL HEIGHT	0.320	0.461	0.927	1.150	1.480	1.469	1.452	1.488	1.477	1.439	1.421	1.418	1.418	1.417	1.409	1.351	1.349	1.350	1.350					
CONTROL LINE CHAINAGE	0	1.251	5.098	8.354	8.538	10	12.406	16.921	20	30	35.296	37.864	39.989	40	42.679	47.893	50	60	60.198					

A1 SCALE: H 1:200, V 1:20

RW03 - LONGITUDINAL SECTION

HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)

VERTICAL GEOMETRY GRADE (%)	-9.2%	8.2%
VERTICAL GEOMETRY LENGTH (m)	5.75	3.89

DATUM RL = 9.200

TOP OF WALL LEVEL	11.232	11.330	11.330	
BOTTOM OF WALL LEVEL	11.232	10.900	11.221	
RETAINING WALL HEIGHT	0.000	0.430	0.109	
CONTROL LINE CHAINAGE	0	4.405	8.299	

A1 SCALE: H 1:200, V 1:20

RW04 - LONGITUDINAL SECTION

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	07.06.24	TN	ISSUED FOR APPROVAL	WP	BS

1:1000 0 50m 100m

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Client: Cumberland City Council

Project: Auburn Basketball Centre
Olympic Drive, Lidcombe
Retaining Wall Section
Sheet 2 of 2

Title

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	

Scale at A1	Status	Rev	Security
1:1000	APR	P1	STD

Drawing Number: 102097-MMD-DA-00-DR-0041

Document Set ID: 11009186
Version: 1, Version Date: 18/08/2024

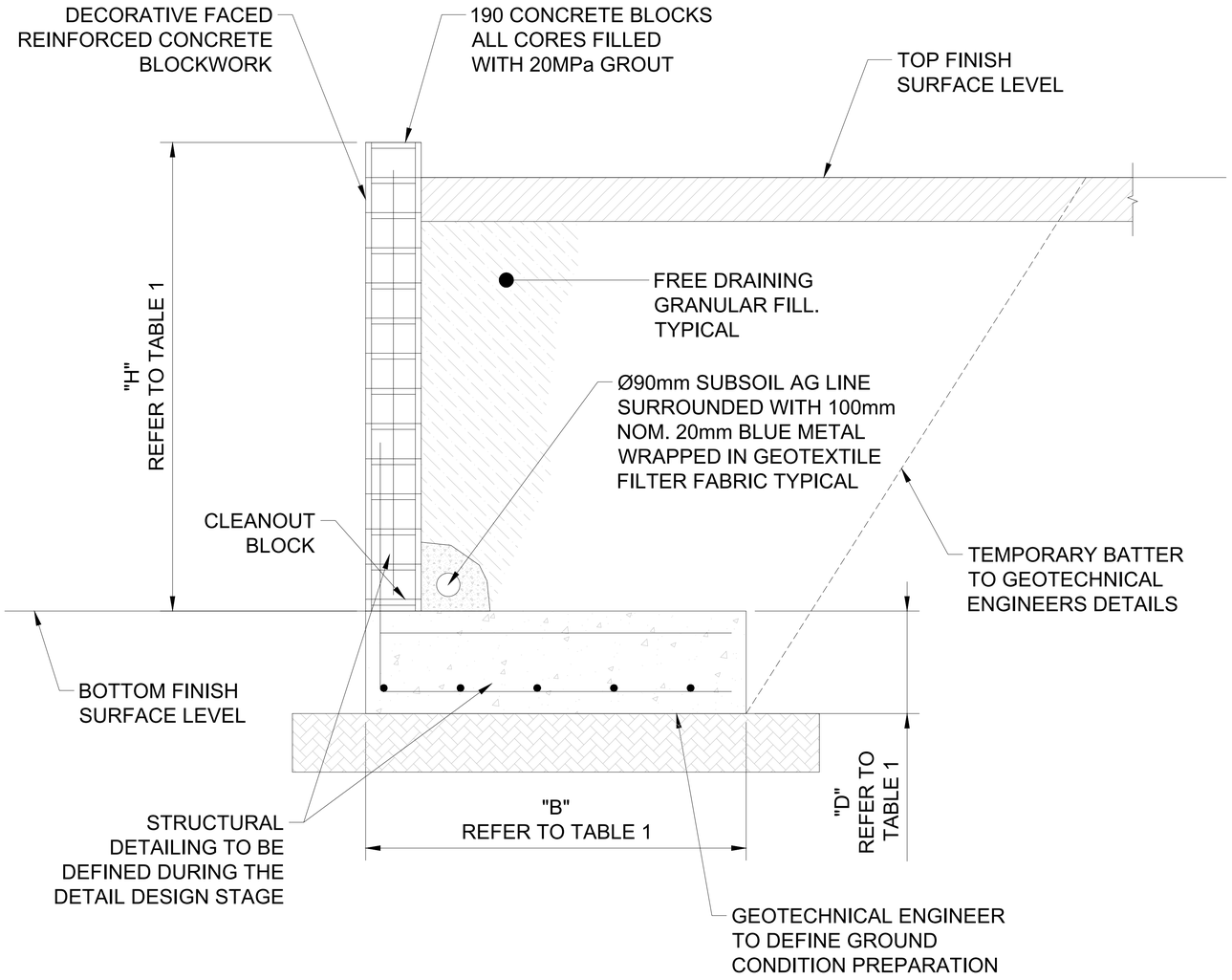

TABLE 1 : TYPICAL BLOCK RETAINING WALL DIMENSIONS			
BLOCK SIZE	"H"	"B"	"D"
190mm BLOCK	1000-1200	1000	250
	1200-1600	1300	350
	1600-2000	1700	550

TYPICAL CONCRETE BLOCK RETAINING WALL

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	07.06.24	TN	ISSUED FOR APPROVAL	WP	BS

1:10 0 500mm 1000mm

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Client: Cumberland City Council

Project: Auburn Basketball Centre
Olympic Drive, Lidcombe

Title: Block Retaining Wall Detail

Designed	WP		Eng check	WP	
Drawn	TN		Coordination	JL	
Dwg check	WP		Approved	BS	
Scale at A1: 1:10	Status: APR		Rev: P1	Security: STD	

Drawing Number: 102097-MMD-DA-00-DR-0042

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