UNSW HEALTH TRANSLATION HUB
CIVIL & STORMWATER

STATE SIGNIFICANT DEVELOPMENT APPLICATION



SOURCE : NEARMAP

LOCALITY AERIAL

NOT TO SCALE

Drawing Schedule		
DWG. No.	DRAWING TITLE	REV
C1.00 Arrangement and Overview Plans		
C1.01	Cover Sheet	2
C1.02	Specification Notes	1
C1.03	Existing Survey	1
C2.00 Sediment and Erosion Control		
C2.01	Sediment & Erosion Control Plan	2
C2.02	Sediment & Erosion Control Details	1
C4.00 Siteworks Plans		
C4.01	Siteworks Plan	2
C6.00 Stormwater Drainage		
C6.01	Stormwater Layout Plan	2
C6.02	Stormwater Pit Schedule	2
C6.03	Stormwater Catchment Plan	1
C6.04	OSD Plan	2
C6.05	OSD Sections	2
C6.10	Stormwater Drainage Details	1
C6.11	WSUD Treatment Device Details	1

CLIENT UNSW SYDNEY

PROJECT MANAGER

ARCHITECT architectus™

Warren Smith & Partners

Warren Smith & Partners Pty Ltd
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02 9299 1312 wsp@warrensmith.com.au
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Consulting Engineers
Hydraulic Fire Civil Utilities Infrastructure

GLOBAL COMPLIANCE CERTIFICATION GCC ISO 9001 Certified

Serving the Construction Industry since 1981.

TITLE **COVER SHEET**

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	M.Cz.	L.S.	M.C.

JOB No.	DRAWING No.	ISSUE
7047000	C1.01	2

DATE	STATUS
DECEMBER 2020	SSDA

Plot Date

Cad File: T:\7047000\Drawings\AutoCAD\Civil\Design\Civil 22\C1.01 Cover Sheet.dwg
Login Name: NGuata
Plot Date: 24.02.2021@14:55:03
Xrefs

GENERAL

G1. DESIGN HEREIN HAS BEEN PREPARED BY
WARREN SMITH AND PARTNERS PTY LTD
CONSULTING CIVIL ENGINEERS,
LEVEL 9, 233 CASTLEREAGH ST, SYDNEY NSW 2000.
TEL:- (02) 9299 1312, FAX:- (02) 9290 1295.

G2. THE DRAWINGS HEREIN SHALL BE READ AS REQUIRED IN CONJUNCTION WITH ARCHITECT DRAWINGS BY:
ARCHITECTUS
MLC CENTRE, MARTIN PLACE,
SYDNEY NSW 2000
TEL: (02) 8252 8400

G3. ALL DIMENSIONS IN MILLIMETRES UNO. REDUCED LEVELS AND CHAINAGES ARE IN METRES. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS.

G4. THE PROPOSED WORKS DETAILED HEREIN SHALL BE CONSTRUCTED TO THE REQUIREMENTS OF COUNCIL GENERALLY AS DETAILED HEREUNDER.

G5. ALL EXISTING SERVICES SHALL BE VERIFIED FOR DEPTH AND HORIZONTAL POSITION BY PHYSICAL MEANS PRIOR TO EXCAVATION. ANY DISCREPANCIES SHALL BE BROUGHT FORTHWITH TO THE PROJECT MANAGER'S ATTENTION.

G6. REFERENCE SHALL BE MADE TO THE CONSTRUCTION MANAGEMENT PLAN FOR ALL SITE WORKS DETAILED HEREIN.

STORMWATER & SUB-SOIL DRAINAGE

MATERIALS:

STW1. PIPES AND FITTINGS FOR STORMWATER DRAINAGE SHALL BE AS FOLLOWS UNO ON THE DRAWINGS:
A. SEWER GRADE uPVC (SN8) WITH SOLVENT WELDED JOINTS FOR BELOW GROUND DRAINAGE UP TO 225mm.
B. REINFORCED CONCRETE WITH RUBBER RINGS, CLASS 3, FOR PIPE DIA'S GREATER THAN 225mm OR WHERE REQUIRED BY AS3500 FOR EXCESSIVE DEPTH.
C. INSTALL IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

STW2. PIPES & FITTINGS FOR SUBSOIL DRAINAGE SHALL BE SLOTTED POLYVINYL CHLORIDE (PVC) WITH SOLVENT WELDED JOINTS, MIN. 150mm DIAMETER.

STW3. IN GROUND DRAINAGE PIPEWORK SERVING DP's SHALL BE MINIMUM 150mm DIA. UNO.

STW4. GRATED DRAINS SHALL BE 150mm NOM.
A. 150mm NOM. WIDTH IN NON TRAFFICABLE AREAS.
B. 225mm NOM. WIDTH IN TRAFFICABLE AREAS.

STW5. STORMWATER PITS ARE AS SHOWN & SPECIFIED ON THE PLANS . PRECAST TYPE ACCEPTABLE WITH STEP IRONS FOR DEPTH GREATER THAN 1200. BENCH ALL PITS MIN. 50mm & FORM SMOOTH TRANSITION FROM INLET TO OUTLET.

STW6. SELECT FILL SHALL BE MATERIAL OBTAINED FROM EXCAVATION OF THE PIPE TRENCH OR IMPORTED WITH A PARTICLE SIZE FOR ROCK NOT GREATER THAN 75mm OR FOR OTHER THAN ROCK NOT GREATER THAN 150mm.

STW7. IMPORTED FILL SHALL BE EITHER, AND GENERALLY CONSIST OF SINGLE SIZED AGGREGATE WITH PARTICLE SIZE NOT GREATER THAN 5mm WRAPPED ALL ROUND WITH GEOTEXTILE FILTER FABRIC OR APPROVED HIGH COMPACTION SAND OR APPROVED CRUSHED ROAD GRAVEL CONFORMING TO RTA FORM 3051 OR SIMILAR.

STW8. STORMWATER PITS AND GRATES TO CONFORM WITH STANDARD COUNCIL REQUIREMENTS, WHERE ON PUBLIC LAND. GRATES TO BE SUPPLIED IN CLASS SHOWN ON THE DRAWINGS.

INSTALLATION REQUIREMENTS:

STW9. PIPES SHALL BE TRUE TO GRADES SHOWN AND ALIGNED SO THAT THE CENTRES OF THE INLET PIPES INTERSECT WITH THE CENTRE OF THE OUTLET PIPE AT THE DOWNSTREAM FACE OF THE PIT.

STW10. MINIMUM GRADES FOR GRAVITY STORMWATER DRAINAGE SHALL CONFORM TO AS3500 PART3 AS FOLLOWS, UNO:
1% FOR 100 AND 150 mm DIA.
0.5% FOR 225 mm DIA
0.5% FOR 300 mm DIA
0.4% FOR 375 mm DIA

STW11. MINIMUM DEPTH OF COVER SHALL BE :-
- 300mm IN PRIVATE PROPERTY (NON VEHICULAR TRAFFIC).
- 450mm IN PUBLIC AREAS.
- 600mm IN VEHICULAR TRAFFICABLE AREAS (FOOTWAY/ROADWAY)

STW12. BED ALL PIPES FIRMLY AND EVENLY ONTO IMPORTED BEDDING FILL MATERIAL.

STW13. LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND
AS 3725-1989 BURIED FLEXIBLE PIPELINES
AS 2566-1998 LOADS ON BURIED FLEXIBLE PIPELINES
AS 1597.2-1996 PRECAST REINFORCED CONCRETE BOX CULVERTS.
AS 3500-1990 NATIONAL PLUMBING & DRAINAGE CODE. PART 2, SANITARY PLUMBING AND SANITARY DRAINAGE. SYDNEY WATER REQUIREMENTS.

STW14. ALLOW TO TEST ALL PIPES AND PITS TO MANUFACTURERS REQUIREMENTS.

CONCRETE WORKS

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, THE STANDARDS ASSOCIATION AUSTRALIA, STANDARDS CITED IN AS3600, THE DRAWINGS AND THE SPECIFICATION.

C2. ALL CONCRETE SHALL BE 80mm NOMINAL SLUMP, 20mm MAXIMUM AGGREGATE WITH NO ADMIXTURES OR FLY ASH, UNLESS OTHERWISE APPROVED. ALL CONCRETE WORK IN CONTACT WITH SEWER TO HAVE TYPE SL PORTLAND CEMENT, OTHERWISE TYPE A CEMENT FOR BRIDGE WORKS, A MAXIMUM 56 DAYS SHRINKAGE OF 600 MICROSTRAIN, A MINIMUM CEMENT CONTENT 350kg/m3 AND MAXIMUM WATER:CEMENT RATIO OF 0.40.

C3. STRENGTH GRADE OF CONCRETE SHALL BE : 25 MPa (KERBS, EDGE STRIPS & CONCRETE ENCASEMENT) AND 32 MPa ELSEWHERE.

C4. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR APPROVED. GENERALLY FOR HAND PLACED KERB & GUTTER 6mm THICK APPROVED BITUMINOUS MASTIC JOINTING MATERIAL SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 6m. FOR MACHINE PLACED KERB & GUTTER 6mm THICK APPROVED BITUMINOUS MASTIC JOINTING MATERIAL SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 12m & GUILLOTINED DUMMY GROOVED JOINTS, 25mm IN DEPTH, SHALL BE FORMED EVERY 3m OF GUTTER. JOINTS ARE ALSO REQUIRED AT EACH END OF GUTTER CROSSING AND GULLY PITS. JOINTS SHALL BE SET VERTICAL AND SQUARE TO THE KERB.

C5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.

C6. ELDING OR SPLICES IN REINFORCEMENT SHALL BE USED ONLY IN POSITIONS APPROVED BY THE ENGINEER.

C7. CONCRETE CURING SHALL BE IN ACCORDANCE WITH AS3600. CURING SHALL BE COMMENCED WITHIN TWO HOURS OF FINISHING OPERATIONS AND SHALL BE CONTINUED FOR A MINIMUM OF SEVEN DAYS BY AN APPROVED PROPRIETARY COMPOUND OR BY KEEPING CONTINUOUSLY WET.

C8. FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS3610. FORMWORK SHALL NOT BE STRIPPED NOR PROPS REMOVED WITHOUT APPROVAL.

C9. FABRIC LAP DETAILS SHALL BE IN ACCORDANCE WITH FIG.13.2.4 OF AS3600.

C10. HOOKS, LAPS AND BENDS SHALL BE IN ACCORDANCE WITH AS3600 UNO.

C11. ALL CHEMICAL ANCHORS SHALL BE EITHER 'CHEMSET' BY "RAMSET" WITH THE GLASS CAPSULE SYSTEM INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS OR HILTI HVU ADHESIVE ANCHOR WITH FOIL CAPSULE SYSTEM INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTION.

C12. ALL CHEMICAL ANCHORS SHALL BE HOT DIPPED GALVANIZED AND BE MIN M16 DIA. U.N.O.

GENERAL EARTHWORKS, SITEWORKS & FILLING:

FILLING:

SGE1. THESE CLAUSES SHALL BE READ IN CONJUNCTION WITH DOUGLAS PARTNERS THE GEOTECHNICAL INVESTIGATION REPORT - RANDWICK CAMPUS REDEVELOPMENT, REV 2 DATED FEBRUARY 2018.

SGE2. THE RECOMMENDATIONS CONTAINED IN THE GEOTECH REPORT SHALL OVERRIDE THE CLAUSES PRESENTED HEREIN.

SGE3. STRIP ALL TOPSOIL AND UNDERLYING FILL AND STOCKPILE TOPSOIL FOR LATER REUSE FOR LANDSCAPING PURPOSES.

SGE4. NEW FILL REQUIRED TO REINSTATE CUT LEVELS TO PROPOSED BENCHING LEVELS SHALL BE SOURCED FROM OTHER PARTS OF THE EXCAVATION AS SELECT FILL OR IMPORTED FILL AS SPECIFIED BELOW IN SGE 5 AND SGE 6.

SGE5. SELECT FILL SHALL CONSIST OF LOCALLY DERIVED OR CUT NATURAL CLAYS.

SGE6. IMPORTED FILL SHALL CONSIST OF RIPPED SANDSTONE OR SHALE OR SIMILAR MATERIAL WITH MAXIMUM PARTICLE SIZE NOT GREATER THAN 120mm AND A MOISTURE CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.

SGE7. ALL FILL (COHESIVE SOIL) SHALL BE PLACED IN LAYERS OF 200mm MAXIMUM THICKNESS, COMPACTED BY MACHINE ROLLING TO ACHIEVE A DRY DENSITY RATIO OF NOT LESS THAN 98% STANDARD MAXIMUM AT A CORRESPONDING MOISTURE CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.

SGE8. IN AREAS WHERE HIGH IMPACT ROLLING IS USED TEST EACH FINAL LAYER OF NOT GREATER THAN 300mm TO 400mm TO ACHIEVE A DRY DENSITY SGE8. RATIO OF NOT LESS THAN 98% STANDARD MAXIMUM AT A CORRESPONDING MOISTURE CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.

EXCAVATION BATTERS:

SGE9. ALL TEMPORARY BATTERS CUT IN CLAY SUBSTRATE SHALL BE 1 HORIZ : 1 VERT. ALL LONG TERM EXPOSED BATTERS CUT IN CLAY SUBSTRATE SHALL BE 2 HORIZ : 1 VERT. ALL DETENTION BASIN BATTERS IN CLAY SUBSTRATE SHALL BE 3 HORIZ : 1 VERT. ALL DETENTION BASIN BATTERS IN ROCK SUBSTRATE SHALL BE NEAR VERTICAL.

SGE10. GEOTECHNICAL TESTING IS TO BE UNDERTAKEN TO AT LEAST LEVEL 1 CONTROL OF FILL COMPACTION STANDARD, AS DEFINED IN AS. 3738 AS FOLLOWS

- FOR GENERAL FILL OR CUT AREAS OVER THE AREA PROVIDE ONE (1) TEST PER 200mm LAYER, OVER AN AREA NOT GREATER THAN 500 m^2
- FOR GENERAL FILL AREAS IN CONCENTRATED AREAS ADJACENT TO AND BEHIND THE STRUCTURE AND ADJACENT TO AND BEHIND RETAINING WALLS PROVIDE ONE (1) TEST PER 200mm LAYER, OVER AN AREA NOT GREATER THAN 50m^2

SGE11. SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN SMITH & PARTNERS FOR REVIEW PRIOR TO CONTINUATION WITH SUBSEQUENT SECTION OF WORK.

EARTH WORKS FOR SERVICES

E1. EXCAVATE TRENCHES AND STOCKPILE ALL MATERIAL FOR INSPECTION WITH REGARD TO RE-USE FOR TRENCH BACKFILL. REMAINING MATERIAL TO BE REMOVED FROM SITE.

E2. BEDDING MATERIAL SHALL CONSIST OF IMPORTED FILL ONLY. THICKNESS OF BEDDING LAYER SHALL BE 75mm IN O.T.R. AND 200mm IN ROCK.

E3. EMBED ALL PIPES WITH IMPORTED FILL. PROVIDE 200mm SIDE SUPPORT AND 150mm OVERLAY ABOVE PIPE CROWN.

E4. TRENCH FILL ABOVE THE EMBEDMENT ZONE TO THE UNDERSIDE OF THE ROAD PAVEMENT OR FOOTWAY FILL MATERIAL SHALL BE AS FOLLOWS :

UNDER ROADWAY

TRENCH FILL MATERIAL SHALL CONSIST OF IMPORTED FILL AS SPECIFIED HEREIN OF EITHER HIGH GRADE COMPACTION SAND OR APPROVED CRUSHED ROAD GRAVEL CONFORMING TO RTA FORM 3051 OR SIMILAR.

OTHER THAN ROADWAY

TRENCH FILL MATERIAL EXCAVATED SHALL CONSIST OF SELECT FILL AS SPECIFIED HEREIN AND SHALL NOT CONTAIN MORE THAN 20% OF STONES OF SIZE BETWEEN 75mm & 150mm AND NONE LARGER THAN 150mm. PRIOR TO THE USE OF THE EXCAVATED MATERIAL IT SHALL BE INSPECTED AND APPROVED BY THE CONSULTANT.

E5. COMPACT BEDDING, EMBEDMENT AND TRENCH FILL MATERIALS AS FOLLOWS:

EMBEDMENT:-
FOR GRANULAR FILL MATERIAL (NON-COHESIVE SOILS) EG. COARSE AGGREGATE FILL, HIGH GRADE COMPACTION SAND, THE DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%.

TRENCH FILL:-
FOR GRANULAR MATERIAL (NON-COHESIVE SOILS), THE DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%.

FOR NON-GRANULAR FILL MATERIAL (COHESIVE SOILS), THE DRY DENSITY RATIO (RD) SHALL BE NOT LESS THAN 95%.

E6. MEASURE OF COMPACTION:-
THE DEGREE OF COMPACTION SHALL BE MEASURED BY ONE OF THE FOLLOWING PARAMETERS :-

GRANULAR FILL (NON-COHESIVE SOILS). THE DENSITY INDEX (ID) DETERMINED IN ACCORDANCE WITH AS 1289.E6.1 BASED ON THE MAXIMUM AND MINIMUM DRY DENSITIES IN ACCORDANCE WITH AS 1289.E5.1 AND THE FIELD DRY DENSITY IN ACCORDANCE WITH AS 1289.5.3.2, AS 1289.E3.5 OR AS 1289.E8.1.

NON-GRANULAR FILL (COHESIVE SOILS). THE DRY DENSITY RATION (RD) DETERMINED IN ACCORDANCE WITH AS 1289.5.4.1 BASED ON THE FIELD DRY DENSITY IN ACCORDANCE WITH AS 1289.5.3.2 AND THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289.5.1.1

E7. GEOTECHNICAL TESTING IS TO BE UNDERTAKEN TO AT LEAST LEVEL 1 CONTROL OF FILL COMPACTION STANDARD, AS DEFINED IN AS. 3738 AS FOLLOWS:

- TEST EACH 300mm LAYER ABOVE PIPE CROWN.
- TEST BASE & SUB-BASE LAYERS WHERE APPLICABLE.
- TESTS SHALL BE REQUIRED AT EACH 50m CENTRES WHERE THE LENGTH OF TRENCH IS WITHIN THE 50m REQUIREMENT.

E8. SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN SMITH & PARTNERS FOR REVIEW PRIOR TO CONTINUATION WITH SUBSEQUENT SECTION OF WORK.

RESTORATION:

RES1. RESTORE ALL TRAFFIC AREAS TO PRE EXISTING CONDITION.

RES2. FOR ALL SURFACES OTHER THAN IN TRAFFIC AREAS RESTORE DISTURBED SURFACES TO PRE-EXISTING CONDITIONS AND COMPACT AS SPECIFIED.

RES3. RESTORE ALL AUTHORITY OWNED AREAS TO COUNCIL STANDARDS

ROAD WORKS, DRIVEWAYS & CARPARKS

R1. ALLOW FOR LEVEL 2 TESTING AND SUB-GRADE CONDITIONS & PAVEMENT THICKNESS TO BE VERIFIED BY GEOTECHNICAL CONSULTANT AFTER INSPECTION OF PRELIMINARY BOXING.

R2. ALLOW FOR ANY SUB-GRADE REPLACEMENT WORK TO BE DETERMINED AS REQUIRED BY GEOTECHNICAL CONSULTANT AT THE TIME OF PAVEMENT CONSTRUCTION.

R3. MINIMUM DRY DENSITY RATIOS (AS 1289 3.4.1-1993) TO BE:

BASE COURSE:	98% MODIFIED
SUB-BASE:	95% MODIFIED
SUB-GRADE:	100% STANDARD
SUB-GRADE REPLACEMENT:	100% STANDARD

R4. PAVEMENT MATERIALS TO COMPLY WITH RMS SPECIFICATION No. 3051 OR SIMILAR AS APPROVED BY GEOTECHNICAL CONSULTANT.

R5. PROVIDE (1) TEST FOR EACH LAYER NOT EXCEEDING 250mm THICK BEING BASECOURSE, SUB-BASE & SUB-GRADE OVER AN AREA NOT GREATER THAN 500m^2

R6. SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN SMITH & PARTNERS FOR REVIEW PRIOR TO CONTINUATION WITH SUBSEQUENT SECTION OF WORK.

APPROVALS

A1. THE AS CONSTRUCTED WORKS SHALL BE INSPECTED BY DESIGN CONSULTANT. MINIMUM 48 HOURS NOTICE SHALL APPLY TO ALL INSPECTIONS.

A2. THE DESIGN PLANS HEREIN ARE SUBJECT TO LOCAL COUNCIL APPROVAL PRIOR TO CONSTRUCTION. OBTAIN EXPRESS (WRITTEN) ADVICE TO PROCEED FROM PROJECT MANAGER PRIOR TO COMMENCEMENT.

A3. SUBMIT WORK-AS-EXECUTED DRAWINGS IN CIVILCAD OR DXF DIGITAL FORMAT AND HARD COPY FORMAT. VERIFY ALL CONSTRUCTION WORKS SHOWN HEREON.

A4. CERTIFY THAT THE AS CONSTRUCTED SYSTEM HAS BEEN BUILT IN ACCORDANCE WITH THE APPROVED PLANS ISSUED FOR CONSTRUCTION.

SERVICES UNDER ROAD SURFACES

S1. ALL OTHER SERVICES INCLUDING BUT NOT LIMITED TO WATER, HYDRANT, GAS, SEWER, ELECTRICAL AND COMMUNICATIONS CONDUITS OR CABLES SHALL BE LAID WITH MINIMUM 600mm U.N.O. COVER BELOW PROPOSED ROAD SURFACE OR APPROVED OTHER MEANS TO PROTECT DURING CONSTRUCTION.

ROAD SIGNS & LINE MARKING

RS1. ALL SIGNS AND LINEMARKING SHALL BE TO ROADS & TRAFFIC AUTHORITY STANDARDS AND SPECIFICATIONS AND AS.1742, MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES

RS2. ALL LINEMARKING SHALL BE AUGMENTED BY RETROREFLECTIVE RAISED PAVEMENT MARKERS (RRPMs) AND ALL SHALL BE TO AS 1742.2 - 1994 AND AS 1742.2 /AMDT 1/1997-10-05

RS3. ALL ROAD SIGNS AND POSTS SHALL BE TO AS 1742.2 - 1994 AND AS 1742.2 /AMDT 1/1997-10-05

PROTECTION OF FLORA - REFER SPECIFICATION

1. ANY TRENCHES WITHIN 3m OF TREES SHALL BE HAND DUG TO AVOID DAMAGE TO TREE ROOTS.

2. IF IT IS CONSIDERED NECESSARY TO PERFORM ANY WORK ON TREES, INCLUDING TRIMMING, LOPPING, ROOT CUTTING, REPAIR AND REMOVAL, APPLICATION IN WRITING SHALL BE MADE BY THE CONTRACTOR TO THE SUPERINTENDENT. ANY WORK PERMITTED TO BE DONE ON TREES TO BE RETAINED SHALL BE PERFORMED IN ACCORDANCE WITH THE ARBORISTS REPORT.

3. MATURE TREES AND SHRUBS ARE TO BE REMOVED IN ACCORDANCE WITH THE ARBORISTS REPORT.

AUTHORITY STANDARDS

LGA 1. THE DRAWINGS HEREIN SHALL BE READ IN CONJUNCTION WITH CITY OF RANDWICK COUNCIL STANDARDS & SPECIFICATIONS WHICH SHALL OVERRIDE SPECIAL DETAILS SHOWN ON THE DRAWINGS.

TRAFFIC NOTE:

1. A TRAFFIC CONTROL PLAN IS TO BE PREPARED BY AN ACCREDITED RMS 1. TRAFFIC CONTROLLER AND SUBMITTED TO COUNCIL. THIS TRAFFIC PLAN IS TO BE CERTIFIED BY AND IMPLEMENTED TO THE SATISFACTION OF AN ACCREDITED RMS TRAFFIC CONTROLLER

PRIOR TO COMMENCEMENT OF WORK

2. ALL TRAFFIC CONTROL WORKS SHALL ONLY BE CARRIED OUT BY 2. ACCREDITED RMS TRAFFIC CONTROLLERS.

CLOSED CIRCUIT COLOUR TV (CCTV)

CCTV 1. UNDERTAKE A CCTV INSPECTION OF ALL THE COMPLETED DRAINAGE IN ACCORDANCE WITH THE GUIDELINES OF THE AUSTRALIAN CONDUIT CONDITION EVALUATION MANUAL (ACCEM)

CCTV 2. APPLY THE FOLLOWING REQUIREMENTS TO THE CCTV INSPECTION:-
A. USE DATA CAPTURE SOFTWARE APPROVED BY SYDNEY WATER
B. USE CERTIFIED CCTV OPERATORS C. THE CCTV FOOTAGE SHALL BE OF QUALITY TO ALLOW ACCURATE ASSESSMENT OF THE INTERNAL CONDITION OF THE PIPE. FURNISH TO THE DESIGN CONSULTANT:-

CCTV 3. A. VIDEOS IN MPG FORMAT
B. CCTV REPORT AND SURVEY DATA IN PDF FORMAT

PROTECTION OF TREES

T1. WHERE STORMWATER DRAINAGE IS LAID WITHIN THE VICINITY OF TREES / CANOPIES OF TREES, WORK IS TO BE COMPLETED TO THE PROJECT ARBORIST'S REQUIREMENTS AND SPECIFICATIONS.

PRELIMINARY - NOT FOR CONSTRUCTION

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

THIS DRAWING IS NOT TO BE COPIED IN PART OR WHOLE WITHOUT WRITTEN PERMISSION FROM WARREN SMITH AND PARTNERS.

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR SSDA	14/12/20			

CLIENT: UNSW SYDNEY

PROJECT: UNSW HEALTH TRANSITION HUB

PREPARED BY
Warren Smith & Partners
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Consulting Engineers
Hydraulic Fire Civil Utilities Infrastructure
SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE: SPECIFICATION NOTES

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	M.Cz.	L.S.	M.C.

JOB No.	DRAWING No.	ISSUE
7047000	C1.02	1

DATE	STATUS
DECEMBER 2020	SSDA

Xrefs: X:70\7000-TB_A1H
Plot Date: 15.12.2020@08:43:30 Login Name: LSuarez Cad File: T:\7047000\Drawings\AutoCAD\Civil\Design\Civil 2D\C1.02 Specification Notes.dwg

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

A1

LEGEND

- SITE BOUNDARY
- PROPOSED DEVELOPMENT BOUNDARY
- es — EXISTING SEWER LINE
- ew — EXISTING WATER MAIN
- ee — EXISTING OVERHEAD ELECTRICITY
- eeug — EXISTING ELECTRICITY UNDERGROUND
- et — EXISTING TELECOMMUNICATIONS LINE
- eg — EXISTING GAS
- esw — EXISTING STORMWATER PIPE
- e? — UNKNOWN UNDERGROUND SERVICE
- EXISTING STORMWATER CULVERT

BOTANY STREET

EURIMBLA AVENUE

HIGH STREET

EXISTING STORMWATER CULVERT. FOR DETAILS REFER TO EXISTING DRAWINGS "EARLY AND ENABLING WORKS" PREPARED BY ACOR.

EXISTING DN300 SEWER HAS BEEN REMOVED AND DISUSED

EXISTING DN1050 STORMWATER PIPE

PROPOSED LOT 1 DRAFT DP 8897m?

STORMTRAP RISERS

SWD CULVERT

STM PIT 1116 1500 X 1500 CL 52.938 IL 48.218 IL 49.318

STM PIT 1115 1500 X 1500 48.889 PIPE INV. 48.851 BASE CL 50.958

STM PIT 1114 1500 X 1500 48.980 PIPE INV. 48.98 BASE

STM PIT 1113 1500 X 1500 51.271 CL

STM PIT 1112 1500 X 1500 49.278INV 51.085 CL

STM PIT 111 1500 X 1500 49.172INV 51.142 CL

DRAWING No. C1.03

PRELIMINARY - NOT FOR CONSTRUCTION

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NORTH

5.0 0 2.5 5.0 7.5 10.0m

PLAN SCALE 1:250 A1 SHEET

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

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR SSDA	14/12/20			

CLIENT: UNSW SYDNEY

PROJECT: UNSW HEALTH TRANSITION HUB

PREPARED BY

Warren Smith & Partners

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Consulting Engineers
Hydraulic Fire Civil Utilities Infrastructure

ISO 9001 Certified

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE: **EXISTING SURVEY**

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	M.Cz.	L.S.	M.C.

JOB No.	DRAWING No.	ISSUE
7047000	C1.03	1

DATE	STATUS
DECEMBER 2020	SSDA

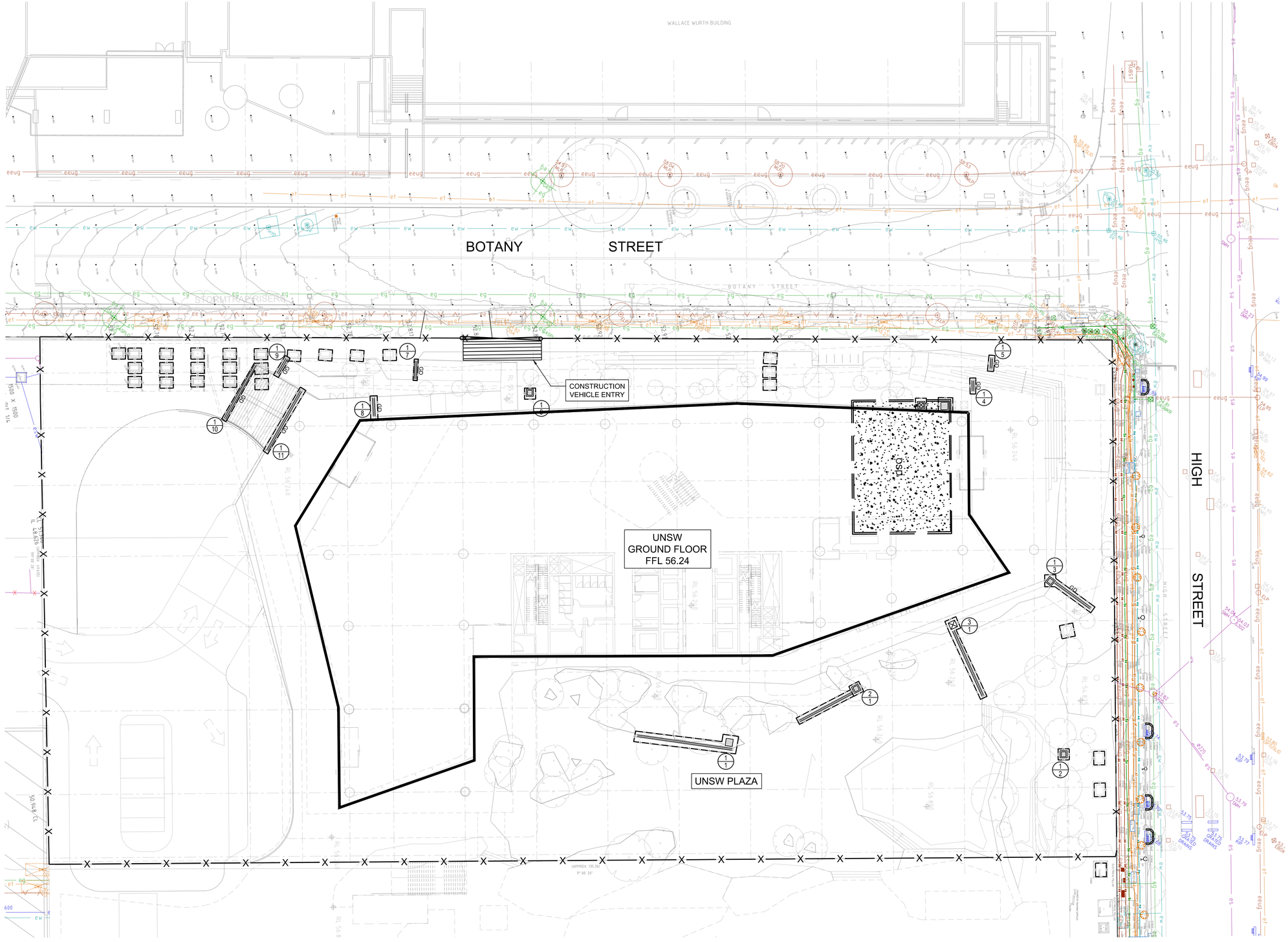
Xrefs: Y:\7047000\TB_A1H_Y:\7047000\SU_Ground...\7047000\SU_Existing Utilities_Y:\7047000\SU_Existing Trees_Y:\7047000\SU_Boundary
Plot Date: 15.12.2020@18:07:48 Login Name: mccarrozia Cad File: T:\7047000\Drawings\AutoCAD\C\Data\Design\Civil 2D\C103 Existing Survey.dwg

LEGEND

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

NOTES

1. GEOTEXTILE INLET FILTER BAGS TO BE FITTED IN ALL PROPOSED STORMWATER GRATED PITS WITHIN THE DEVELOPMENT AREA ONCE INSTALLED.
2. STOCKPILE LOCATION SHALL BE DETERMINED ON SITE DURING CONSTRUCTION STAGE. STOCKPILES 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 C2.03 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 SWEPT AND CONTAINED AND NOT WASHED INTO A GUTTER.
6. DEWATERING SYSTEM TO BE COMPLIANT WITH WATER ACT 1912.
7. APPROVAL AND CONDITIONS AS REQUIRED FOR CONNECTION OF THE DEWATERING SYSTEM TO THE PUBLIC DRAINAGE INFRASTRUCTURE AS PER SECTION 138 OF THE ROADS ACT.



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NORTH

PLAN SCALE 1:250 A1 SHEET

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

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR SSDA	14/12/20			
2	RE-ISSUE FOR SSDA	24/02/21			

CLIENT: UNSW SYDNEY

PROJECT: UNSW HEALTH TRANSITION HUB

PREPARED BY

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Consulting Engineers
Hydraulic Fire Civil Utilities Infrastructure

SERVING THE CONSTRUCTION INDUSTRY SINCE 1961.

TITLE

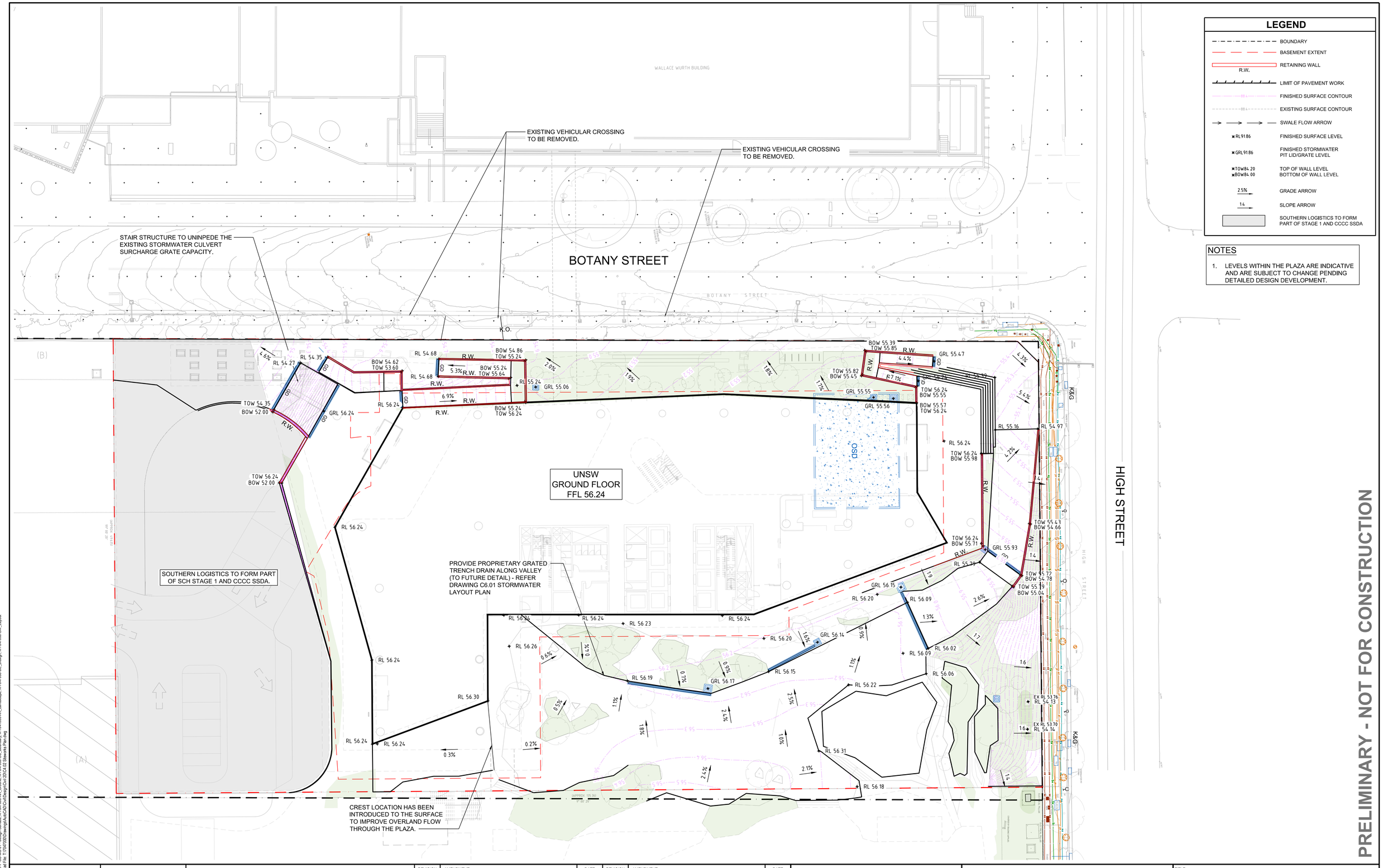
SEDIMENT & EROSION CONTROL PLAN

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	M.Cz.	L.S.	M.C.

JOB No.	DRAWING No.	ISSUE
7047000	C2.01	2

DATE	STATUS
DECEMBER 2020	SSDA

Xref: X:\7047000\TB_A1H_X-7047000-SU_Existing Utilities_X-7047000-SW_Layout_X-7047000-SU_Boundary_X-7047000-AR_Landscape_X-7047000-SU_Ground
Plot Date: 24.02.2021@15:00:07 Login Name: mczarnota Cad File: Y:\7047000\drawings\AutoCAD\Civil\Design\Civil 2\7047-21 Sediment & Erosion Control Plan.dwg



LEGEND

- BOUNDARY
- BASEMENT EXTENT
- RETAINING WALL (R.W.)
- LIMIT OF PAVEMENT WORK
- FINISHED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- SWALE FLOW ARROW
- RL 91.86 — FINISHED SURFACE LEVEL
- GRL 91.86 — FINISHED STORMWATER PIT LID/GRATE LEVEL
- TOW 84.20 / BOW 84.00 — TOP OF WALL LEVEL / BOTTOM OF WALL LEVEL
- 2.5% — GRADE ARROW
- 1:4 — SLOPE ARROW
- SOUTHERN LOGISTICS TO FORM PART OF STAGE 1 AND CCCC SSDA

NOTES

1. LEVELS WITHIN THE PLAZA ARE INDICATIVE AND ARE SUBJECT TO CHANGE PENDING DETAILED DESIGN DEVELOPMENT.

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

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
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PROJECT: UNSW HEALTH TRANSITION HUB

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Hydraulic Fire Civil Utilities Infrastructure

ISO 9001 Certified

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE: **SITEWORKS PLAN**

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	M.Cz.	L.S.	M.C.

JOB No.	DRAWING No.	ISSUE
7047000	C4.01	2

DATE	STATUS
DECEMBER 2020	SSDA

Xrefs: X:\7047000\TB_A1H_X-7047000-SU_Ground_7047000-WSP-C5-MO-01 - Design Surface_X-7047000-AR_Ground_X-7047000-SU_Boundary X-7047000-AR_Landscape_X-7047000-DE_Design_X-7047000-SW_Layout
Plot Date: 24.02.2021 @ 16:24:32 Login Name: mccarrolla Cad File: Y:\7047000\Drawings\AutoCAD\Civil\Design\Civil 2570-02 Siteworks Plan.dwg

BOTANY STREET

HIGH STREET

8m, 8.80m AND 3 x 2.50m LONG ACO K200 GRATED DRAIN TO CONNECT TO INTERNAL HYDRAULIC DRAINAGE

OSD TO BE DISCHARGED VIA GRAVITY PIPE TO THE EXISTING STORMWATER CULVERT. EXACT LOCATION OF THE CONNECTION TO BE COORDINATED DURING DETAILED DESIGN. CONNECTION INVERT LEVEL TO BE ABOVE THE 1% AEP HYDRAULIC GRADE LINE WITHIN CULVERT.

PIT 1/6 TO BE CONNECTED TO EXISTING STORMWATER CULVERT. CONNECTION INVERT LEVEL TO BE ABOVE THE 1% AEP HYDRAULIC GRADE LINE WITHIN CULVERT.

2 x 1.50m LONG ACO K200 GRATED DRAIN TO CONNECT TO INTERNAL HYDRAULIC DRAINAGE

OSD TO BE LOCATED SUSPENDED IN THE BASEMENT. FOR DETAILS REFER TO C6.05 & C6.05.

UNSW GROUND FLOOR FFL 56.24

INDICATIVE LOCATION OF THE OSD INLET PIPE. EXACT LOCATION OF THE DN225 INTLET PIPE IN THE BASEMENT TO BE COORDINATED DURING DETAILED DESIGN.

5.70m LONG ACO K200 GRATED DRAIN TO CONNECT TO INTERNAL HYDRAULIC DRAINAGE

ROOF OUTLINE

SOUTHERN LOGISTICS TO FORM PART OF SCH STAGE 1 AND THE CCCC SSDA.

UNSW PLAZA

PIT 1/2 TO BE DISCHARGED TO EXISTING KERB INLET PIT ON HIGH STREET

ADEQUATE CLEARANCE BETWEEN EXISTING STORMWATER CULVERT AND PROPOSED DN225 PIPE BE PROVIDED.

STORMWATER

- SITE BOUNDARY
- DEVELOPMENT BOUNDARY
- ROOF OUTLINE
- EXISTING STORMWATER PIPE
- EXISTING STORMWATER PIPE TO BE REMOVED
- INDICATIVE OVERLAND FLOW ROUTE
- PIPE DIAMETER AND DIRECTION OF FLOW
- STORMWATER PIPE
- KERB INLET PIT (ON GRADE)
- GRATED INLET PIT
- JUNCTION PIT
- PIT STRUCTURE NUMBER / STORMWATER LINE NUMBER
- GRATED TRENCH DRAIN
- LANDSCAPING (BY OTHERS)

NOTES:

1. OCEAN GUARD BY OCEAN PROTECT TO BE FITTED IN PITS: 1/1, 2/1, 3/1, 1/2, 1/3, 1/6 & 1/11.
2. 10 x 690mm STORMFILTERS TO BE FITTED IN "ON SITE DETENTION" TANK.
3. LEVELS WITHIN THE PLAZA ARE INDICATIVE AND ARE SUBJECT TO CHANGE PENDING DETAILED DESIGN DEVELOPMENT.

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NORTH

5.0 0 2.5 5.0 7.5 10.0m
PLAN SCALE 1:250 A1 SHEET

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SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE: **STORMWATER LAYOUT PLAN**

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	M.Cz.	L.S.	M.C.

JOB No.	DRAWING No.	ISSUE
7047000	C6.01	2

DATE	STATUS
DECEMBER 2020	SSDA

Xrefs: X:\7047000-TB_ATH_X-7047000-AR_Ground_X-7047000-SW_Layout_X-7047000-AR_Site Plan_X-7047000-SU_Ground_X-7047000-SU_Existing Utilities_X-7047000-AR_Basement_7047000-MS-P-CS-MO-01 - Design Surface_X-7047000-AR_Landscape_X-7047000-AR_Roof_X-7047000-SU_Boundary
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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 INTERNAL (ID) (mm)	No. PIPES
Pit 1/1	56.17	0.68	900SQ PIT WITH CLASS B GRATE; 12.36m LONG K200 ACO TRENCH DRAINS WITH CLASS B HEELSAFE GRATE	Pit 1/1	Pit 2/1	16.7	55.49	55.32	1.02	uPVC (SN8)	225	1
Pit 2/1	56.14	0.85	600SQ PIT WITH CLASS B GRATE; 7.83m LONG K200 ACO TRENCH DRAINS WITH CLASS B HEELSAFE GRATE	Pit 2/1	Pit 3/1	13.90	55.29	55.15	1.01	uPVC (SN8)	225	1
Pit 3/1	56.15	1.03	900SQ PIT WITH CLASS B COVER; 9.20m LONG K200 ACO TRENCH DRAINS WITH CLASS B HEELSAFE GRATE	Pit 3/1	OSD	11.4	55.12	55	1.05	uPVC (SN8)	225	1
				OSD	Existing Culvert	1.9	53.8	53.73	3.68	RCP	375	1
Pit 1/2	54.88	0.94	450SQ PIT WITH CLASS B GRATE	Pit 1/2	Existing Pit on High Street	12	53.94	52.74	10.00	uPVC (SN8)	225	1
Pit 1/3	55.70		600SQ PIT WITH CLASS B GRATE; 5.71m LONG K200 ACO TRENCH DRAINS WITH CLASS B HEELSAFE GRATE	CONNECTION TO BE MADE TO INTERNAL HYDRAULIC DRAINAGE								
Pit 1/4	56.24		1.50m LONG K200 ACO TRENCH DRAINS WITH CLASS B HEELSAFE GRATE	CONNECTION TO BE MADE TO INTERNAL HYDRAULIC DRAINAGE								
Pit 1/5	55.47		1.50m LONG K200 ACO TRENCH DRAINS WITH CLASS B HEELSAFE GRATE	CONNECTION TO BE MADE TO INTERNAL HYDRAULIC DRAINAGE								
Pit 1/6	54.92		450SQ PIT WITH CLASS B GRATE	CONNECTION TO BE MADE TO EXISTING STORMWATER CULVERT. CONNECTION INVERT LEVEL TO BE ABOVE THE 1% AEP HYDRAULIC GRADE LINE WITHIN CULVERT.								
Pit 1/7	54.66		2.53m LONG K200 ACO TRENCH DRAINS WITH CLASS B HEELSAFE GRATE	CONNECTION TO BE MADE TO INTERNAL HYDRAULIC DRAINAGE								
Pit 1/8	56.24		2.50m LONG K200 ACO TRENCH DRAINS WITH CLASS B HEELSAFE GRATE	CONNECTION TO BE MADE TO INTERNAL HYDRAULIC DRAINAGE								
Pit 1/9	54.51		2.50m LONG K200 ACO TRENCH DRAINS WITH CLASS B HEELSAFE GRATE	CONNECTION TO BE MADE TO INTERNAL HYDRAULIC DRAINAGE								
Pit 1/10	54.27		8.02m LONG K200 ACO TRENCH DRAINS WITH CLASS B HEELSAFE GRATE	CONNECTION TO BE MADE TO INTERNAL HYDRAULIC DRAINAGE								
Pit 1/11	52.01		8.90m LONG K200 ACO TRENCH DRAINS WITH CLASS B HEELSAFE GRATE	CONNECTION TO BE MADE TO INTERNAL HYDRAULIC DRAINAGE								

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CLIENT: UNSW SYDNEY

PROJECT: UNSW HEALTH TRANSITION HUB

PREPARED BY

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Consulting Engineers
Hydraulic Fire Civil Utilities Infrastructure

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE: **STORMWATER PIT SCHEDULE**

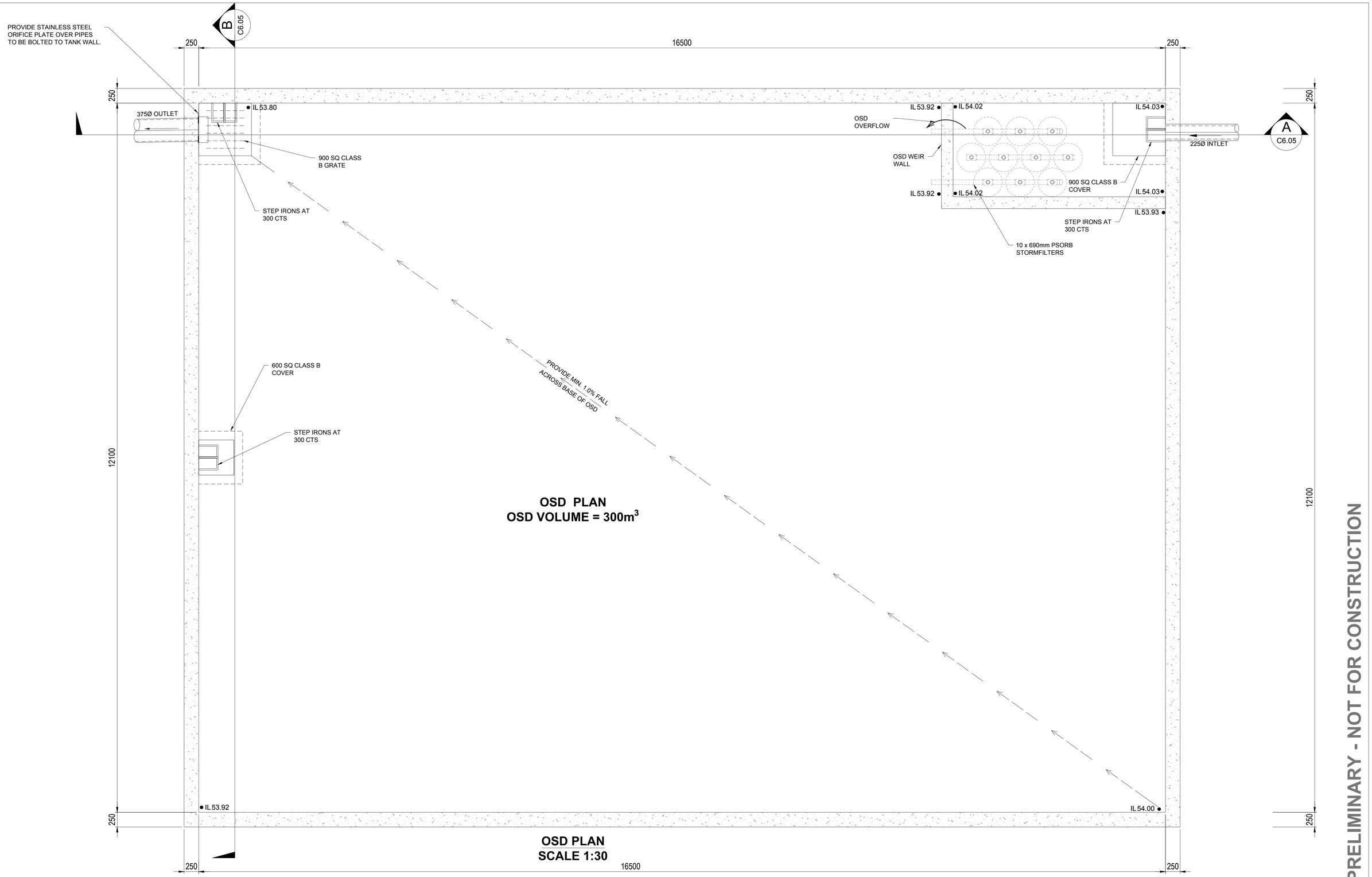
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	M.Cz.	L.S.	M.C.

JOB No.	DRAWING No.	ISSUE
7047000	C6.02	2

DATE	STATUS
DECEMBER 2020	SSDA

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CLIENT

UNSW SYDNEY

PROJECT

UNSW HEALTH TRANSITION HUB

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Consulting Engineers
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TITLE

OSD PLAN

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	M.Cz.	L.S.	M.C.

JOB No.	DRAWING No.	ISSUE
7047000	C6.04	2

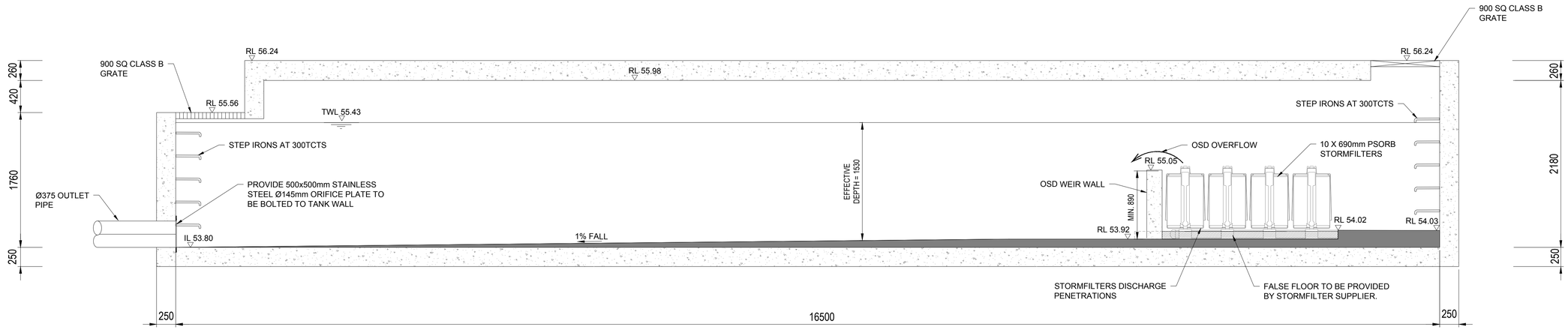
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DECEMBER 2020	SSDA

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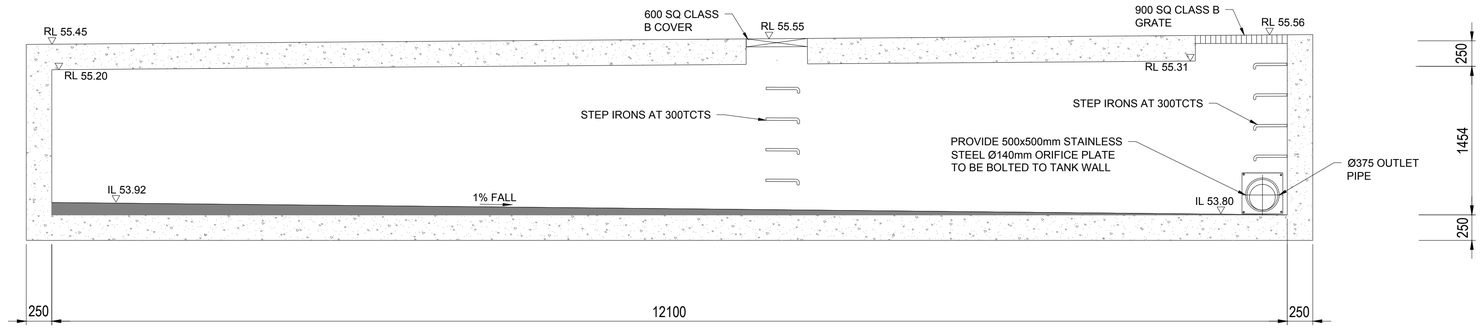
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NOTES:

1. OSD HAS BEEN DESIGNED IN ACCORDANCE WITH RANWICK CITY COUNCIL WHICH STATES THAT POST DEVELOPMENT SITE DISCHARGE FLOW DOES NOT EXCEED PERMISSIBLE SITE DISCHARGE. FOR THE PROPOSED SITE PSD= 118L/S. REFER TO WS+P REPORT FOR DETAILS.



SECTION A
SCALE: 1:30
C6.04



SECTION B
SCALE: 1:30
C6.04

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TITLE: **OSD SECTIONS**

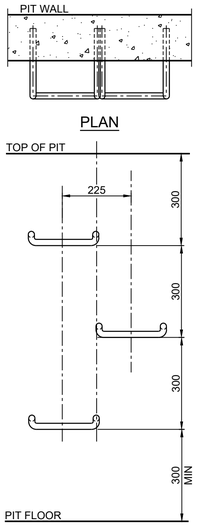
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	M.Cz.	L.S.	M.C.

JOB No.	DRAWING No.	ISSUE
7047000	C6.05	2

DATE	STATUS
DECEMBER 2020	SSDA

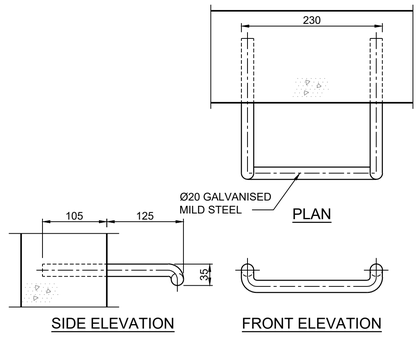
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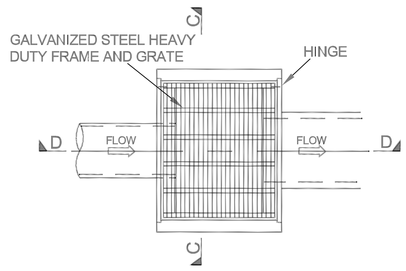
STEP IRON PLACEMENT TO PIT WALL

SCALE NTS



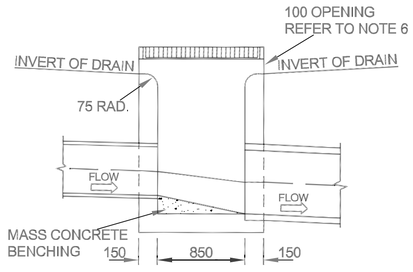
STEP IRON DETAIL

SCALE 1:5



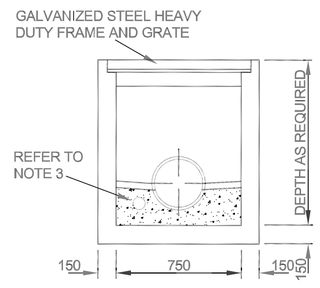
RANDWICK COUNCIL SURFACE INLET PIT PLAN

SCALE NTS



SURFACE INLET PIT - SECTION D

SCALE NTS



SURFACE INLET PIT - SECTION C

SCALE NTS

NOTES:

1. COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS TO BE 30MPa.
2. TOP OF BENCHING TO BE 1/2 OF OUTLET PIPE DIAMETER.
3. 100 DIA. SUBSOIL DRAINAGE PIPE 3.0m LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED AT INVERT LEVEL EITHER SIDE OF THE INLET PIPES.
4. PROVIDE STEP IRONS WHERE PIT IS DEEPER THAN 1.0m AT 300mm CENTERS.
5. PITS OVER 1.5m IN DEPTH TO BE REINFORCED WITH F82 MESH RETURNED 300mm INTO BASE WITH WALLS 200mm THICK.
6. WHERE INLET OPENING GREATER THAN 100mm IS REQUIRED A R20 DIA. GALVANIZED BARS SHALL BE PLACED HORIZONTALLY ACROSS THE OPENING AT MID HEIGHT.

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TITLE: **STORMWATER DRAINAGE DETAILS**

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	M.Cz.	L.S.	M.C.

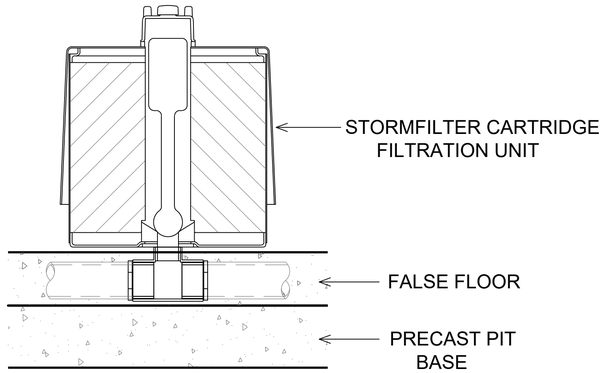
JOB No.	DRAWING No.	ISSUE
7047000	C6.10	1

DATE	STATUS
DECEMBER 2020	SSDA

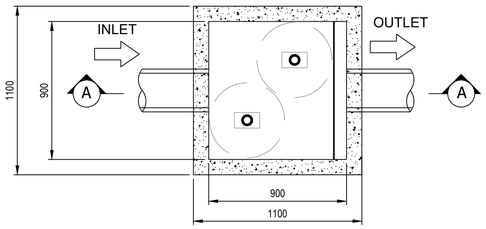
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Plot Date: 16.12.2020@09:36:56 Login Name: LSuarez Cad File: T:\7047000\Drawings\AutoCAD\Civil\Design\Civil 20\C6.06 Stormwater Drainage Details.dwg

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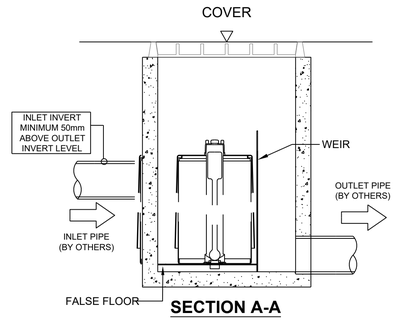
A1



STORMFILTER CARTRIDGE DETAIL
SCALE 1:20



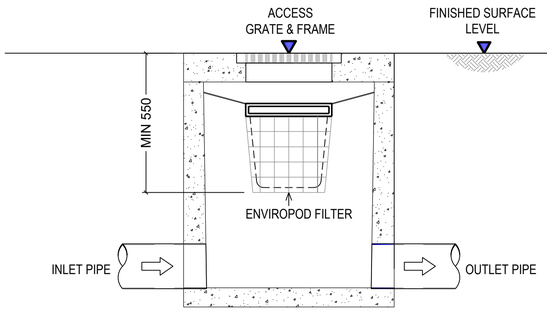
PLAN LAYOUT



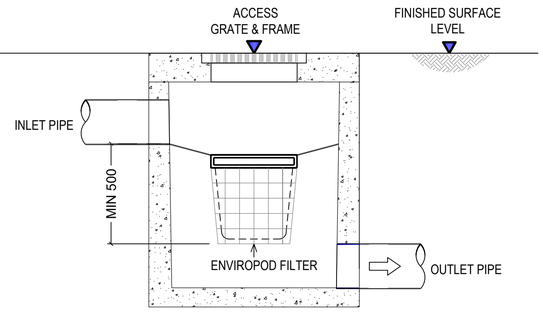
SECTION A-A

TYPICAL DETAIL OF WATER QUALITY TREATMENT PIT WITH 690 PSORB STORMFILTER

SCALE 1:20



STANDARD ENVIROPOD CONFIGURATION SECTION



DROP PIPE ENVIROPOD CONFIGURATION SECTION

PRELIMINARY - NOT FOR CONSTRUCTION

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

THIS DRAWING IS NOT TO BE COPIED IN PART OR WHOLE WITHOUT WRITTEN PERMISSION FROM WARREN SMITH AND PARTNERS.

200 0 200 400 600 800 1000mm
PLAN SCALE 1:20 A1 SHEET
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
A1

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR SSDA	14/12/20			

CLIENT
UNSW SYDNEY

PROJECT
UNSW HEALTH TRANSITION HUB

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TITLE
WSUD TREATMENT DEVICE DETAILS

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.T.	M.CZ.	L.S.	M.C.

JOB No.	DRAWING No.	ISSUE
7047000	C6.11	1

DATE	STATUS
DECEMBER 2020	SSDA

Xrefs: X:\7047000\TB_A1H
Plot Date: 15.12.2020@15:49:37 Login Name: LSuarez Cad File: T:\7047000\Drawings\AutoCAD\Civil\Design\Civil 20\C6.11 WSUD Treatment Device Details.dwg