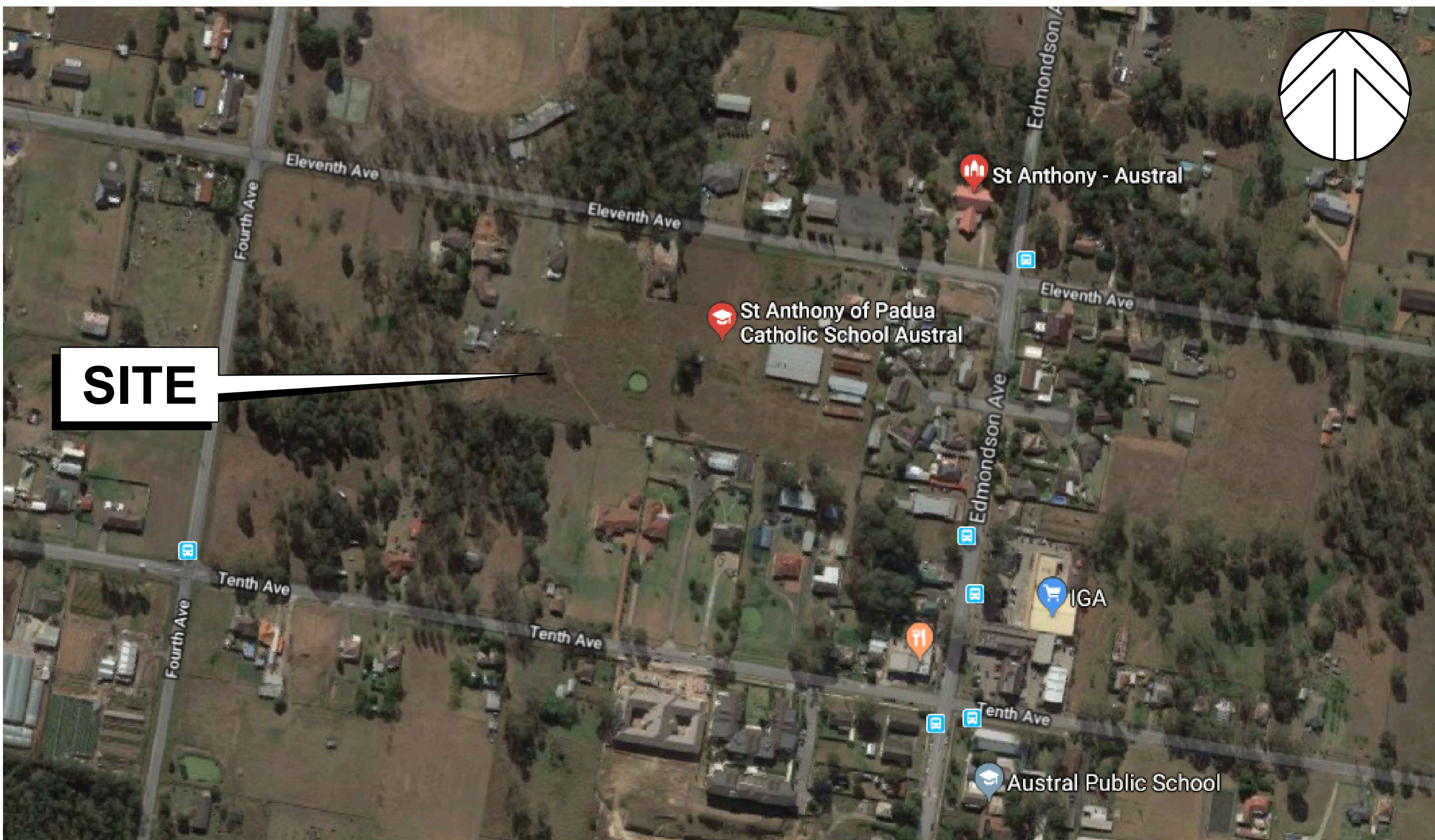


ST ANTHONY OF PADUA CATHOLIC SCHOOL

DEVELOPMENT APPLICATION



LOCALITY AERIAL
NOT TO SCALE

SOURCE : GOOGLE EARTH

Sheet List Table		
Sheet Number	Sheet Title	Rev.
C1.01	Cover Sheet	2
C1.02	Specification Notes	2
C2.01	Sediment and Erosion Control Plan	2
C2.02	Sediment and Erosion Control Details	2
C5.01	Off Site Works Plan	2
C5.02	Road Typical Sections	2
C6.01	Stormwater Layout Plan	2
C6.02	Stormwater Pit Schedule Sheet 1	2
C6.03	Stormwater Pit Schedule Sheet 2	2
C6.04	OSD Tank 1 plan	2
C6.05	OSD Tank 1 Sections	2
C6.06	Stormwater Drainage Details	2
C6.07	Stormwater 360 Treatment Device Typical Details	2

X:\dgs_2017\2018\61634518_Light House_Mains_Civil.dwg 1:500 Drawing Author: C:\Users\jmc\OneDrive\Documents\2018\61634518_Light House_Mains_Civil.dwg

CLIENT	SYDNEY CATHOLIC SCHOOLS
PROJECT MANAGER	ERIK INNS
ARCHITECT	MUNNS SLY MOORE ARCHITECTS



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

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



TITLE				
COVER SHEET				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.C.Z.	N.M.	L.Sh.	M.C.
JOB No.		DRAWING No.	ISSUE	
5914000		C1.01	2	
DATE	STATUS			
MARCH 2018	DEVELOPMENT APPLICATION			

Rev. A/2001/18_A11
Drawn by: J. Zhang
Check by: J. Zhang
Cadd File: T:\5914000\Drawings\AutoCAD\201\Design\Cal 2010\A11.DWG
Log Name: A1.dwg

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: MUNNS SLY MOORE ARCHITECTS PTY LTD 9 HALL STREET, PO BOX 5093, LYNHAM ACT 2602 TEL: (02) 6248 8922. FAX: (02) 6248 8300
- 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.

STORMWATER AND SUBSOIL 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. FIBRE REINFORCED CEMENT / REINFORCED CONCRETE CLASS 3 WITH RUBBER RINGS FOR PIPE DIA'S GREATER THAN 225mm UNO.
- C. REINFORCED CONCRETE WHERE REQUIRED BY AS 3500 FOR EXCESSIVE DEPTH.
- D. 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. STORMWATER PITS ARE AS SHOWN & SPECIFIED ON THE PLANS. PRECAST TYPE ACCEPTABLE WITH STEP IRONS FOR DEPTH GREATER THAN 1200. BENCH ALL PITS MIN. 30mm & FORM SMOOTH TRANSITION FROM INLET TO OUTLET. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO TABLE 8.2 AS - 3500.3
- STW5. 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.
- STW6. 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.
- STW7. 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:
- STW8. 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.
- STW9. 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
- STW10. MINIMUM DEPTH OF COVER SHALL BE :-
- 300mm IN PRIVATE PROPERTY (NON VEHICULAR TRAFFIC).
- 450mm IN PUBLIC AREAS.
- 600mm IN VEHICULAR TRAFFICABLE AREAS (FOOTWAY/ROADWAY)
- STW11. BED ALL PIPES FIRMLY AND EVENLY ONTO IMPORTED BEDDING FILL MATERIAL.
- STW12. 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.
- STW13. 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. 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.
- C6. FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS3610. FORMWORK SHALL NOT BE STRIPPED NOR PROPS REMOVED WITHOUT APPROVAL.

REINFORCEMENT:

- R1. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- R2. WELDING OR SPLICES IN REINFORCEMENT SHALL BE USED ONLY IN POSITIONS APPROVED BY THE ENGINEER.
- R3. FABRIC LAP DETAILS SHALL BE IN ACCORDANCE WITH FIG.13.2.4 OF AS3600.
- R4. HOOKS, LAPS AND BENDS SHALL BE IN ACCORDANCE WITH AS3600 UNO.
- R5. 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. 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 ANY AVAILABLE GEOTECHNICAL REPORT UNDERTAKEN FOR THE SITE.
- 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

- SGE10. BASIN BATTERS IN ROCK SUBSTRATE SHALL BE NEAR VERTICAL.
- GEOTECHNICAL TESTING IS TO BE UNDERTAKEN TO AT LEAST LEVEL 2 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 m²
- 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 50m²
- 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 2 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 500m²
- 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 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. THE SEWERAGE WORKS HAVE BEEN LOCATED TO MINIMISE CLEARING AND DAMAGE TO THE EXISTING FLORA ENVIRONMENT. NO TREES ARE PERMITTED TO BE REMOVED OR DAMAGED UNO. CONSTRUCTION OF THE SEWER GRAVITY OR RISING MAIN IN THE VICINITY OF EXISTING TREES SHALL BE HAND EXCAVATED ONLY, ENSURING IRREVERSIBLE DAMAGE OF THE ROOT SYSTEM DOES NOT OCCUR.
3. 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 BY AN APPROVED TREE SURGEON.
4. NO MATURE TREES OR SHRUBS ARE TO BE REMOVED

FOR THE PURPOSES OF THE WORKS WITHOUT PRIOR APPROVAL FROM LIVERPOOL CITY COUNCIL.

AUTHORITY STANDARDS

- LGA 1. THE DRAWINGS HEREIN SHALL BE READ IN CONJUNCTION WITH LOCAL AUTHORITY'S STANDARDS & SPECIFICATIONS WHICH SHALL OVERRIDE SPECIAL DETAILS SHOWN ON THE DRAWINGS.
- .

CLOSED CIRCUIT COLOUR TV (CCTV)

- CCTV1. UNDERTAKE A CCTV INSPECTION OF ALL THE COMPLETED DRAINAGE IN ACCORDANCE WITH THE GUIDELINES OF THE THE AUSTRALIAN CONDUIT CONDITION EVALUATION MANUAL (ACCCEM)
- CCTV2. 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 VIDEOTAPE SHALL BE OF QUALITY TO ALLOW ACCURATE ASSESSMENT OF THE INTERNAL CONDITION OF THE PIPE.
- CCTV3. FURNISH TO THE DESIGN OF THE CONSULTANT:-
- A. VIDEOS IN MPG FORMAT FOR VIEWING
- B. CCTV REPORT AND SURVEY DATA IN PDF FORMAT
- C. ONE HARD COPY PRINTOUT OF THE SURVEY DATA

PROTECTION OF TREES

- T1. WHERE STORMWATER DRAINAGE IS LAID IN THE VICINITY OF TREES/ CANOPIES OF TREES, PARTICULARLY IN THE NORTH EAST CORNER OF THE SITE, ALLOW THE CONSULTANT ARBORIST TO INSPECT PROGRESSIVELY THE EXCAVATION AND CONSTRUCTION WORKS.

PRELIMINARY - NOT FOR CONSTRUCTION

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

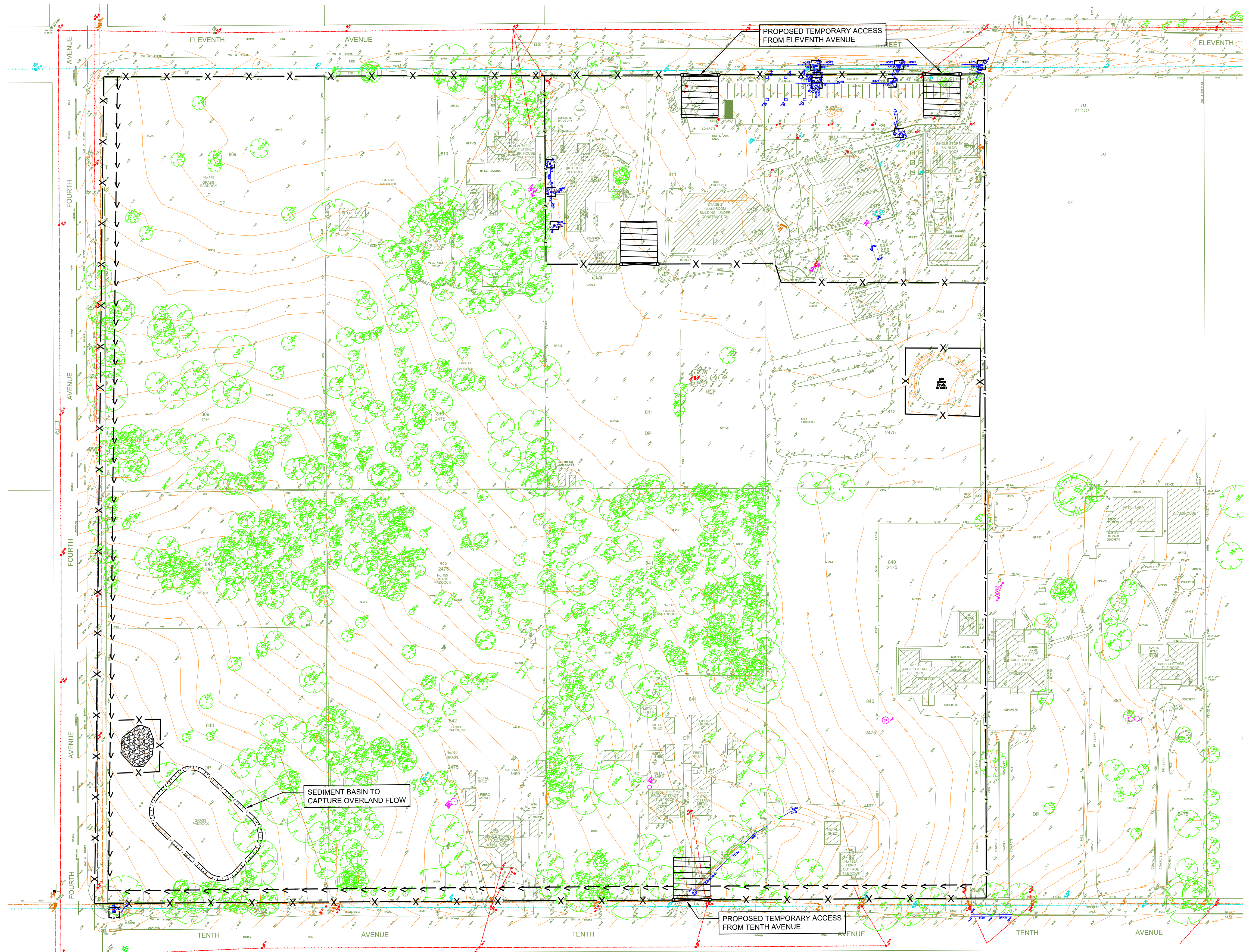
THIS DRAWING IS NOT TO BE COPIED IN PART OR WHOLE WITHOUT WRITTEN PERMISSION FROM WARREN SMITH AND PARTNERS.

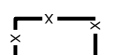
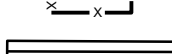
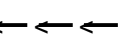
REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	DEVELOPMENT APPLICATION	25/05/18			
2	DEVELOPMENT APPLICATION	19/07/18			

CUSTOMER	SYDNEY CATHOLIC SCHOOLS
PROJECT	ST ANTHONY OF PADUA CATHOLIC SCHOOL

PREPARED BY	Warren Smith & Partners Warren Smith & Partners Pty Ltd 1st Floor, 123 Clarence Street, Sydney 2000 NSW Australia T 02 9299 1312 F 02 9290 1295 wsp@warrensmith.com.au www.warrensmith.com.au ABN 36 300 430 126
CONSULTING ENGINEERS	Hydraulic Services Fire Protection Civil Engineering Sydney Water Accredited Water Servicing Co-ordinator Design Project Management - Building Plan Approvals
SERVING THE CONSTRUCTION INDUSTRY SINCE	1981.

TITLE				
SPECIFICATION NOTES				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.CZ.	N.M.	L.Sh.	M.C.
JOB No.	DRAWING No.		ISSUE	
5914000		C1.02		2
DATE		STATUS		
MARCH 2018		DEVELOPMENT APPLICATION		



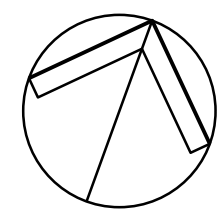
LEGEND	
	SITE FENCE
	SITE GATE
	SEDIMENT FENCE
	GEOTEXTILE INLET FILTER DROP INLET SEDIMENT TRAP
	VEHICLE ENTRY SHAKER GRID
	CATCH DRAIN
	SITE STOCKPILE

NOTES
1. GEOTEXTILE INLET FILTER BAGS TO BE FITTED IN ALL STORMWATER GRATED PITS WITHIN THE DEVELOPMENT AREA. 2. SEDIMENT BASIN SIZE AND LOCATION ARE INDICATIVE ONLY AND WILL BE DESIGNED DURING DETAILED DESIGN STAGE. 3. STOCKPILE LOCATION IS INDICATIVE ONLY AND SHALL BE DETERMINED ON SITE DURING CONSTRUCTION STAGE.

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.

[illegible]

CLIENT	SYDNEY CATHOLIC SCHOOLS
PROJECT	ST ANTHONY OF PADUA CATHOLIC SCHOOL



PREPARED BY



Warren Smith & Partners Pty Ltd
 1st Floor, 122 Clarence Street, Sydney 2000 NSW Australia
 T 02 9299 1312 F 02 9290 1295 info@warrensmith.com.au
www.warrensmith.com.au ABN 36 300 430 126

CONSULTING ENGINEERS

- Hydraulic Services ■ Fire Protection ■ Civil Engineering
- Sewer Water Accredited Water Services Co-ordinator
- Design Project Management - Building Plan Approvals

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE				
SEDIMENT AND EROSION CONTROL PLAN				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.CZ.	N.M.	L.Sh.	M.C.
JOB No.		DRAWINGS No.		ISSUE
5914000		C2.01		2
DATE	STATUS			
MARCH 2018	DEVELOPMENT APPLICATION			



NTS



NTS



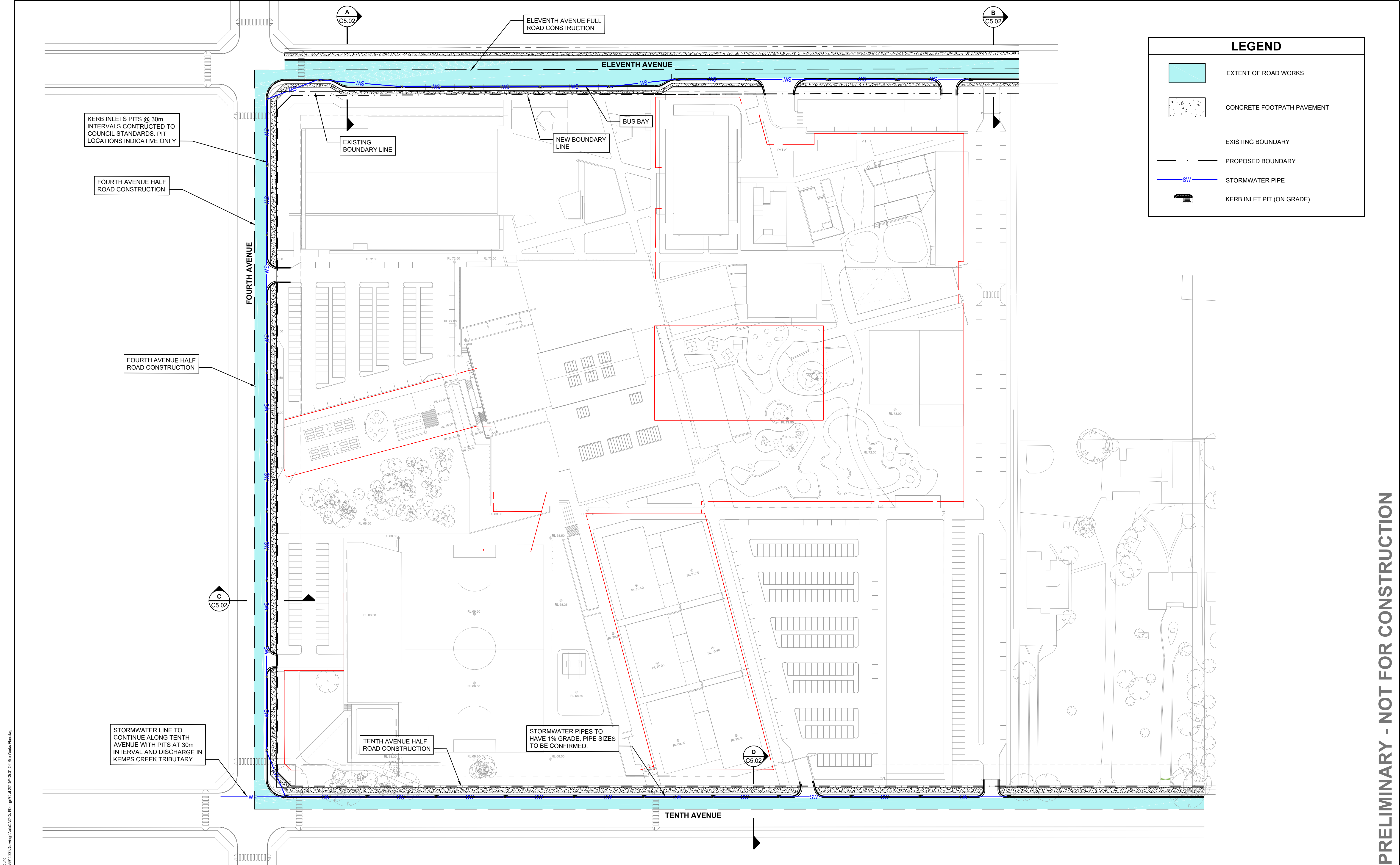
CLIENT

SYDNEY CATHOLIC
SCHOOLS

PROJECT

ST ANTHONY OF PADUA
CATHOLIC SCHOOL

TITLE				
SEDIMENT AND EROSION CONTROL DETAILS				
SCALE AS SHOWN	DRAWN M.CZ.	DESIGNED N.M.	CHECKED L.Sh.	APPROVED M.C.
JOB No. 5914000	DRAWING No. C2.02		ISSUE 2	
DATE MARCH 2018	STATUS DEVELOPMENT APPLICATION			



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.

NORTH

12.5 0 5 10 15 20 25m
PLAN SCALE 1:750 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	DEVELOPMENT APPLICATION	25/08/18			
2	DEVELOPMENT APPLICATION	19/07/18			

CLIENT

SYDNEY CATHOLIC SCHOOLS

PROJECT

ST ANTHONY OF PADUA CATHOLIC SCHOOL

PREPARED BY

Warren Smith & Partners

1st Floor, 123 Clarence Street, Sydney 2000 NSW Australia
T 02 9299 1312 F 02 9290 1295 wsp@warrensmith.com.au
www.warrensmith.com.au ABN 36 300 430 126

CONSULTING ENGINEERS
Hydraulic Services Fire Protection Civil Engineering
Sydney Water Accredited Water Servicing Co-ordinator
Design Project Management - Building Plan Approvals

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE				
OFF SITE WORKS PLAN				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.CZ.	N.M.	L.Sh.	M.C.
JOB No.	DRAWING No.		ISSUE	
5914000		C5.01		2
DATE	STATUS			
MARCH 2018	DEVELOPMENT APPLICATION			

PRELIMINARY - NOT FOR CONSTRUCTION

LEGEND

900 x 900 JUNCTION PIT

KERB INLET PIT (KIP)

GRATED INLET PIT

STORMWATER PIPE DIAMETER AND FLOW

STORMWATER PIPE

SWALE

PIT STRUCTURE NUMBER

STORMWATER LINE NUMBER

INDICATIVE OVERLAND FLOW ROUTE

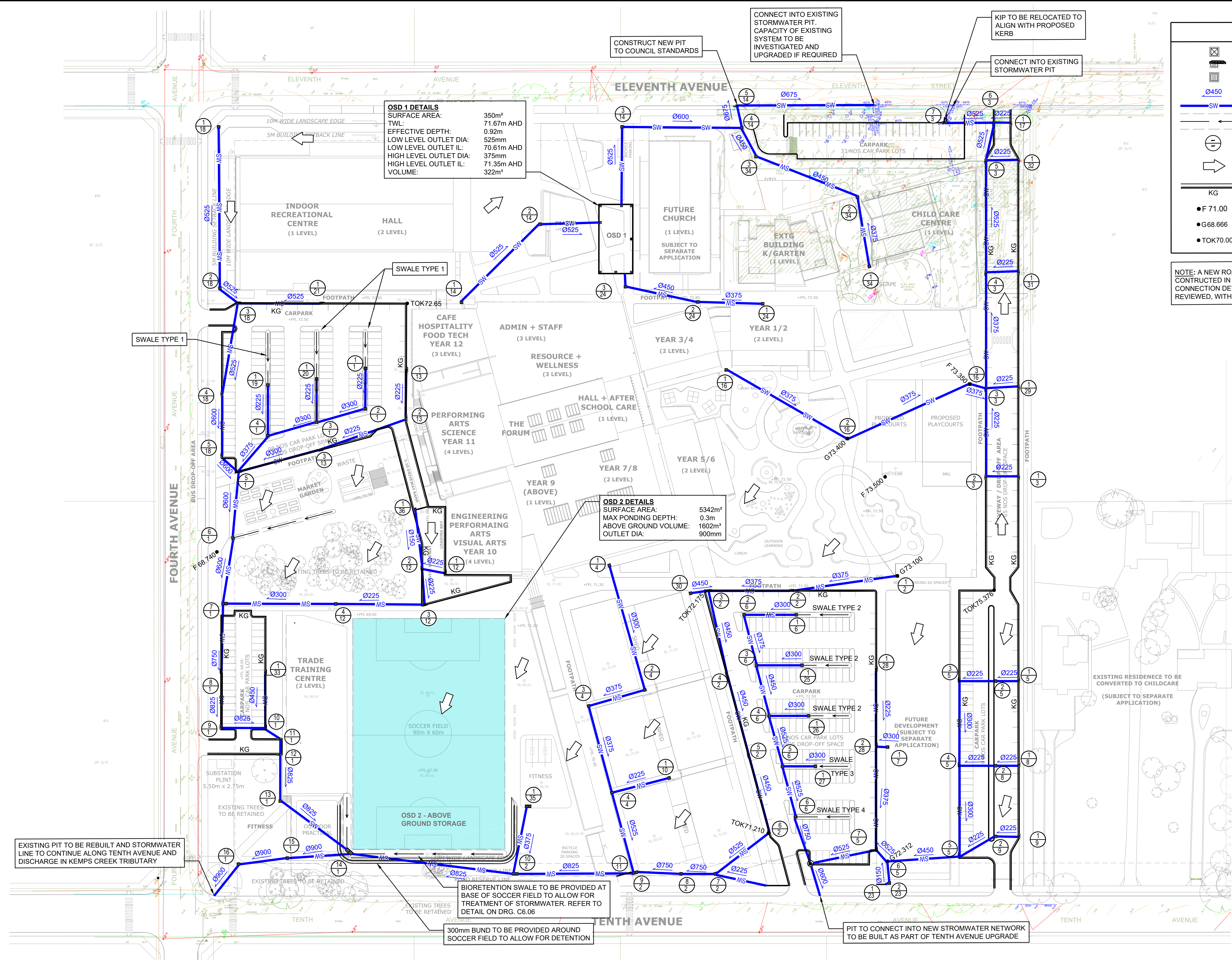
KERB AND GUTTER

FINISHED LEVEL

GRATE LEVEL

TOP OF KERB LEVEL

NOTE: A NEW ROAD AND STORMWATER INFRASTRUCTURE WILL BE CONSTRUCTED IN FOURTH, TENTH AND ELEVENTH AVENUES. CONNECTION DETAILS OF THE SITE STORMWATER SHALL BE REVIEWED, WITH COUNCIL'S APPROVAL, AT DETAILED DESIGN STAGE.



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.

12.5 0 5 10 15 20 25m

PLAN SCALE 1:750 A1 SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	DEVELOPMENT APPLICATION	25/05/18			
2	DEVELOPMENT APPLICATION	19/07/18			

CLIENT

SYDNEY CATHOLIC SCHOOLS

PROJECT

ST ANTHONY OF PADUA CATHOLIC SCHOOL

PREPARED BY

Warren Smith & Partners Pty Ltd
1st Floor, 123 Clarence Street, Sydney 2000 NSW Australia
T 02 9299 1312 F 02 9290 1295 wssp@warrensmith.com.au
www.warrensmith.com.au ABN 36 300 430 126

CONSULTING ENGINEERS

Hydraulic Services Fire Protection Civil Engineering

Sydney Water Accredited Water Servicing Co-ordinator

Design Project Management - Building Plan Approvals

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE		STORMWATER LAYOUT PLAN			
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED	
AS SHOWN	M.CZ.	N.M.	L.Sh.	M.C.	
JOB No.		DRAWING No.		ISSUE	
5914000		C6.01		2	
DATE		STATUS			
MARCH 2018		DEVELOPMENT APPLICATION			

Rev: 1.0 (01/03/18) Drawn: K.S. (01/03/18) Checked: M.C. (01/03/18) Approved: M.C. (01/03/18) Title: ST ANTHONY OF PADUA CATHOLIC SCHOOL - STORMWATER LAYOUT PLAN

Pit 1/12	68.74	0.75	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 1/12	Pit 2/12	8.46	67.99	67.9	1.06	RCP(CLASS 3)	225	1																			
Pit 2/12	68.76	0.97	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 2/12	Pit 3/12	13.11	67.79	67.65	1.07	RCP(CLASS 3)	225	1																			
Pit 3/12	68.63	1.09	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 3/12	Pit 4/12	33.83	67.54	67.2	1.01	uPVC (SN8)	300	1																			
Pit 4/12	68.5	1.41	900SQ Pit, Class B Grate	Pit 4/12	Pit 7/1	41.87	67.09	66.46	1.5	RCP(CLASS 3)	450	1																			
Pit 1/13	71.56	0.83	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 1/13	Pit 2/13	18.14	70.73	70.32	2.26	RCP(CLASS 3)	225	1																			
Pit 2/13	71.15	0.86	900SQ Pit with 2 x 600x900 Class D Grate, 3m Lintel	Pit 2/13	Pit 3/13	34.85	70.29	69.8	1.41	RCP(CLASS 3)	225	1																			
Pit 3/13	70.63	0.86	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 3/13	Pit 5/1	32.43	69.77	69.23	1.67	RCP(CLASS 3)	300	1																			
Pit 1/14	72.57	1.16	900SQ Pit, Class B Grate	Pit 1/14	Pit 2/14	39.46	71.41	71.21	0.51	RCP(CLASS 3)	525	1																			
Pit 2/14	72.15	0.97	900SQ Pit, Class B Grate	Pit 2/14	OSD 1	23.17	71.18	71.08	0.43	RCP(CLASS 3)	525	1																			
Pit 3/14	72.75	2.29	900SQ Pit, Class B Grate	OSD 1	Pit 3/14	29.86	70.61	70.49	0.4	RCP(CLASS 3)	525	1																			
Pit 4/14	72.24	2.08	900SQ Pit, Class B Grate	Pit 3/14	Pit 4/14	45.78	70.46	70.27	0.42	RCP(CLASS 3)	600	1																			
Pit 5/14	72.16	2.07	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 4/14	Pit 5/14	8.83	70.16	70.12	0.45	RCP(CLASS 3)	675	1																			
Pit 1/15 (GD)	70.75	0.69	ACO K300 Graded Trench Drain	Pit 5/14	Ex. Pit 2	53.04	70.09	69.82	0.51	RCP(CLASS 3)	675	1																			
Pit 1/16	73.2	1.83	900SQ Pit, Class B Grate	Pit 1/15 (GD)	Pit 7/2	20.23	70.06	69.85	1.04	RCP(CLASS 3)	225	1																			
Pit 2/16	73.4	2.2	900SQ Pit, Class B Grate	Pit 1/16	Pit 2/16	39.88	71.37	71.23	0.35	RCP(CLASS 3)	450	1																			
Pit 3/16	73.35	2.35	900SQ Pit, Class B Grate	Pit 2/16	Pit 3/16	51.47	71.2	71.03	0.33	RCP(CLASS 3)	450	1																			
Pit 1/17	71.85	1.36	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 3/16	Pit 3/3	6	71	70.98	0.33	RCP(CLASS 3)	450	1																			
Pit 1/18	72.37	0.98	900SQ Pit, Class B Grate	Pit 1/17	Pit 6/3	5.85	70.49	70.43	1.03	uPVC (SN8)	525	1																			
Pit 2/18	71.67	1.13	900SQ Pit, Class B Grate	Pit 1/18	Pit 2/18	62.52	71.39	70.69	1.12	RCP(CLASS 3)	525	1																			
Pit 3/18	71.51	1.16	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 2/18	Pit 3/18	8.78	70.54	70.36	2.05	RCP(CLASS 3)	525	1																			
Pit 4/18	70.54	1.29	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 3/18	Pit 4/18	35.4	70.35	69.36	2.8	RCP(CLASS 3)	525	1																			
Pit 5/18	69.96	1.78	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 4/18	Pit 5/18	23.21	69.25	68.21	4.48	RCP(CLASS 3)	600	1																			
Pit 1/19	70.61	0.83	900SQ Pit, Class B Grate	Pit 5/18	Pit 5/1	8.02	68.18	67.86	3.99	RCP(CLASS 3)	600	1																			
Pit 1/20	70.99	0.83	900SQ Pit, Class B Grate	Pit 1/19	Pit 4/1	19.05	69.78	69.22	2.94	RCP(CLASS 3)	225	1																			
Pit 1/21	72	1.21	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 1/20	Pit 3/1	16.86	70.16	69.67	2.91	RCP(CLASS 3)	225	1																			
Pit 1/23 (GD)	72.5	0.6	ACO K300 Graded Trench Drain	Pit 1/21	Pit 3/18	31.72	70.79	70.38	1.29	RCP(CLASS 3)	525	1																			
Pit 2/23	72.5	0.75	900SQ Pit, Class B Grate	Pit 1/23 (GD)	Pit 2/23	1.09	71.9	71.88	1.84	uPVC (SN8)	150	1																			
Pit 1/24	72.35	0.8	900SQ Pit, Class B Grate	Pit 2/23	Pit 6/5	7.62	71.75	71.57	2.36	uPVC (SN8)	300	1																			
Pit 2/24	72.3	1.03	900SQ Pit, Class B Grate	Pit 1/24	Pit 2/24	24.41	71.55	71.3	1.02	RCP(CLASS 3)	300	1																			
Pit 3/24	72.25	1.29	900SQ Pit, Class B Grate	Pit 2/24	Pit 3/24	27.96	71.27	70.99	1	RCP(CLASS 3)	450	1																			
Pit 1/25	71.77	0.75	900SQ Pit, Class B Grate	Pit 3/24	OSD 1	4.74	70.96	70.8	3.38	RCP(CLASS 3)	450	1																			
Pit 1/26	71.55	0.75	900SQ Pit, Class B Grate	Pit 1/25	Pit 3/6	16.87	71.02	70.85	1.01	uPVC (SN8)	300	1																			
Pit 1/27	71.29	0.75	900SQ Pit, Class B Grate	Pit 1/26	Pit 4/6	14.47	70.8	70.66	0.97	uPVC (SN8)	300	1																			
Pit 1/28	72.64	0.82	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 1/27	Pit 5/6	11.88	70.54	70.42	1.01	uPVC (SN8)	300	1																			
Pit 2/28	72.43	1.1	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 1/28	Pit 2/28	29.1	71.82	71.52	1.03	RCP(CLASS 3)	225	1																			
Pit 1/29	73.73	0.9	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 2/28	Pit 7/5	37.88	71.33	70.95	1	RCP(CLASS 3)	375	1																			
Pit 1/30	72.24	0.9	900SQ Pit, Class B Grate	Pit 1/29	Pit 3/3	11.97	72.83	72.77	0.5	RCP(CLASS 3)	225	1																			
Pit 1/31	72.91	1.42	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 1/30	Pit 3/2	6.2	71.34	70.95	6.29	RCP(CLASS 3)	450	1																			
Pit 1/32	72.12	0.83	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 1/31	Pit 4/3	11.96	71.49	71.37	1	RCP(CLASS 3)	225	1																			
Pit 1/33	67	1.09	900SQ Pit with 600x900 Class D Grate, 1.8m Lintel	Pit 1/32	Pit 5/3	11.95	71.29	71.17	1	RCP(CLASS 3)	225	1																			
Pit 1/34	72.24	1.12	900SQ Pit, Class B Grate	Pit 1/33	Pit 10/1	20.56	65.91	65.35	2.72	RCP(CLASS 3)	450	1																			
Pit 2/34	72.08	1.24	900SQ Pit, Class B Grate	Pit 1/34	Pit 2/34	24.93	71.12	70.87	1	RCP(CLASS 3)	450	1																			
Pit 3/34	72.43	1.84	900SQ Pit, Class B Grate	Pit 2/34	Pit 3/34	42.75	70.84	70.62	0.51	RCP(CLASS 3)	450	1																			
Pit 1/35	68.5		2 x 900SQ Pit, Class B Grate	Pit 3/34	Pit 4/14	11.67	70.59	70.47	1.03	RCP(CLASS 3)	450	1																			
Pit 1/36	69.0		ACO K300 Graded Trench Drain	Pit 1/35	Pit 10/2	25.95	67.6	66.82	3.01	RCP(CLASS 3)	300	1																			
				Pit 1/36	Pit 2/12	22.83	68.25	67.9	1.53	RCP(CLASS 3)	150	1																			
DO NOT SCALE FROM DRAWINGS. CHECK & VERIFY ALL DIMENSIONS & LEVELS BEFORE COMMENCEMENT OF ANY WORK.				REVISION				AMENDMENT				DATE				CLIENT				PREPARED BY				TITLE							
THIS DRAWING IS NOT TO BE COPIED IN PART OR WHOLE WITHOUT WRITTEN PERMISSION FROM WARREN SMITH AND PARTNERS.				1				DEVELOPMENT APPLICATION				25/05/18				SYDNEY CATHOLIC SCHOOLS				 Warren Smith & Partners Pty Ltd 1st Floor, 123 Clarence Street, Sydney 2000 NSW Australia T 02 9299 1312 F 02 9290 1295 wsp@warrensmith.com.au www.warrensmith.com.au ABN 36 300 430 126				STORMWATER PIT SCHEDULE SHEET 2							
				2				DEVELOPMENT APPLICATION				19/07/18												CONSULTING ENGINEERS				SCALE			
																ST ANTHONY OF PADUA CATHOLIC SCHOOL				 SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.				AS SHOWN				DRAWN			
																				DESIGNED				M.C.Z.							
																5914000				C6.03				JOB No.				DRAWING No.			
																				ISSUE				2							
																DATE				STATUS				MARCH 2018				DEVELOPMENT APPLICATION			

PRELIMINARY - NOT FOR CONSTRUCTION

CO-FILE: T15940001Drawings\hsc\CD\CD\Design\CAJ_2014\CAJ_03 Summary PI Schedule Sheet 2.dwg
Xref: X:\B40001B_A\H
PC: 2014 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818 2819 2820 2821 2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2846 2847 2848 2849 2850 2851 2852 2853 2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870 2871 2872 2873 2874 2875 2876 2877 2878 2879 2880 2881 2882 2883 2884 2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2896 2897 2898 2899 2900 2901 2902 2903 2904 2905 2

PRELIMINARY - NOT FOR CONSTRUCTION

Y:\01_1914000\1914000_1914000.dwg
User: Y:\1914000\1914000_1914000.dwg
Plot Date: 20/07/2018 16:46:19
Plot Path: T:\1914000\Drawings\AutoCAD\Output\1914000_1914000.dwg

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	DEVELOPMENT APPLICATION	25/05/18			
2	DEVELOPMENT APPLICATION	19/07/18			

CLIENT
**SYDNEY CATHOLIC
SCHOOLS**

PROJECT
**ST ANTHONY OF PADUA
CATHOLIC SCHOOL**

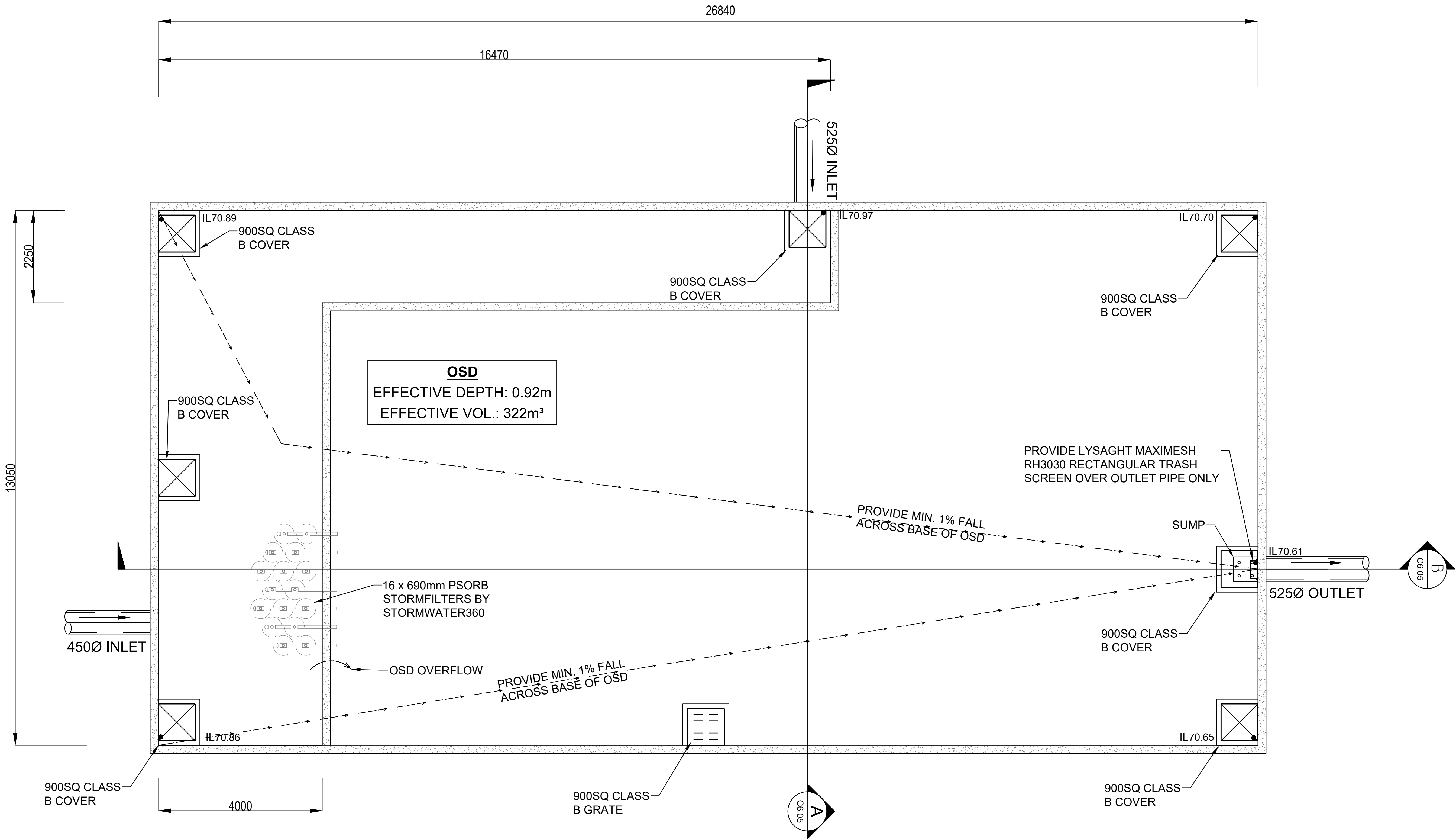
PREPARED BY
**Warren
Smith &
Partners**

Warren Smith & Partners Pty Ltd
1st Floor, 123 Clarence Street, Sydney 2000 NSW Australia
T 02 9299 1312 F 02 9290 1295 wsp@warrensmith.com.au
www.warrensmith.com.au ABN 36 300 430 128

CONSULTING ENGINEERS
■ Hydraulic Services ■ Fire Protection ■ Civil Engineering
■ Sydney Water Accredited Water Servicing Co-ordinator
- Design Project Management - Building Plan Approvals

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

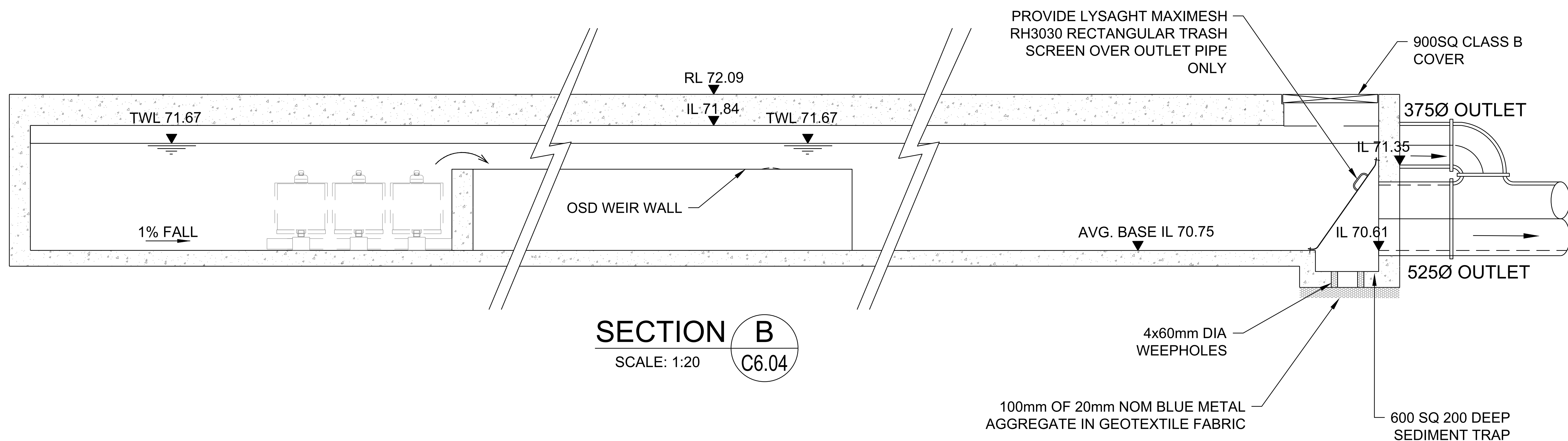
TITLE				
OSD TANK 1 PLAN				
SCALE AS SHOWN	DRAWN M.C.Z.	DESIGNED N.M.	CHECKED L.Sh.	APPROVED M.C.
JOB No. 5914000		DRAWING No. C6.04		ISSUE 2
DATE MARCH 2018	STATUS DEVELOPMENT APPLICATION			



ON SITE DETENTION TANK PLAN

SCALE: 1:50

PRELIMINARY - NOT FOR CONSTRUCTION



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.

2000mm
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
SHEET SIZE: A1

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	DEVELOPMENT APPLICATION	25/05/18			
2	DEVELOPMENT APPLICATION	19/07/18			

CLIENT

SYDNEY CATHOLIC SCHOOLS

PROJECT

ST ANTHONY OF PADUA CATHOLIC SCHOOL

PREPARED BY

Warren Smith & Partners Pty Ltd

1st Floor, 123 Clarence Street, Sydney 2000 NSW Australia
T 02 9299 1312 F 02 9290 1295 wisp@warrensmith.com.au
www.warrensmith.com.au ABN 36 300 430 126

CONSULTING ENGINEERS

Hydraulic Services

Fire Protection

Civil Engineering

Sydney Water Accredited Water Servicing Co-ordinator

Design Project Management - Building Plan Approvals

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE

OSD TANK 1 SECTIONS

SCALE

AS SHOWN

M.CZ.

DESIGNED

N.M.

CHECKED

L.Sh.

APPROVED

M.C.

JOB No.

5914000

DRAWING No.

C6.05

ISSUE

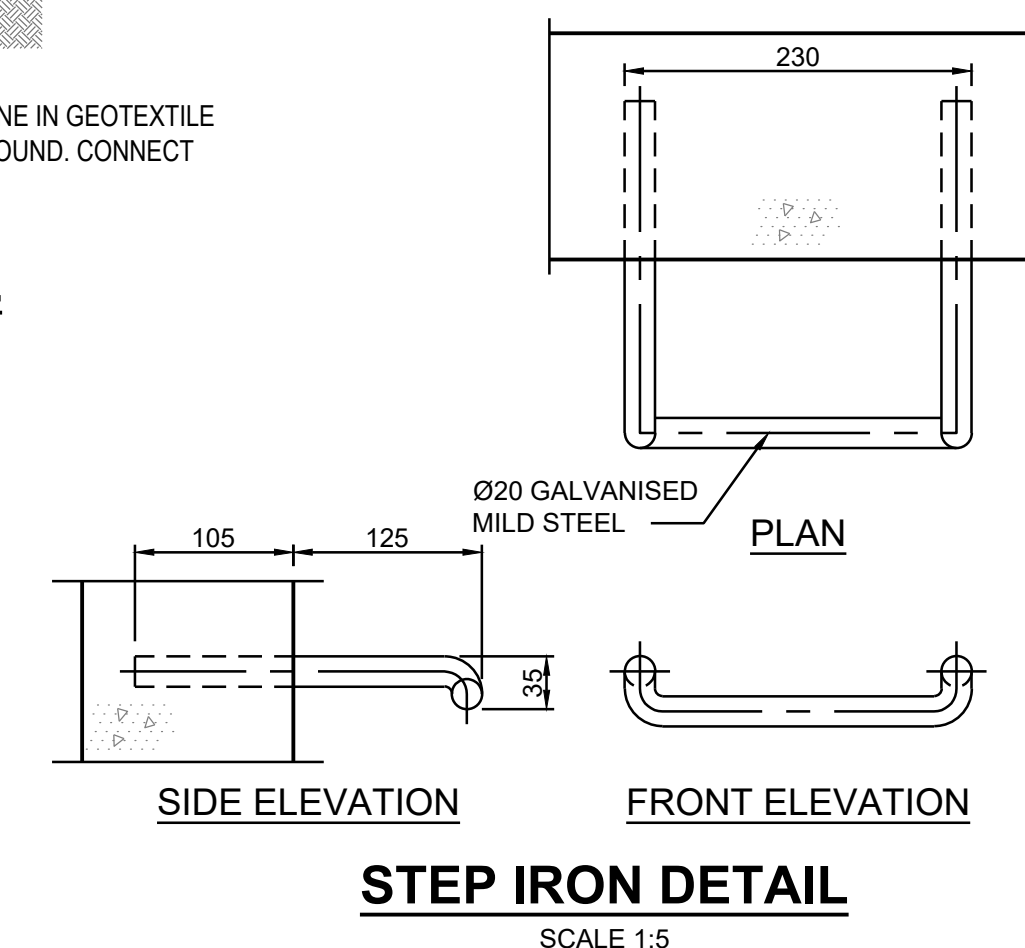
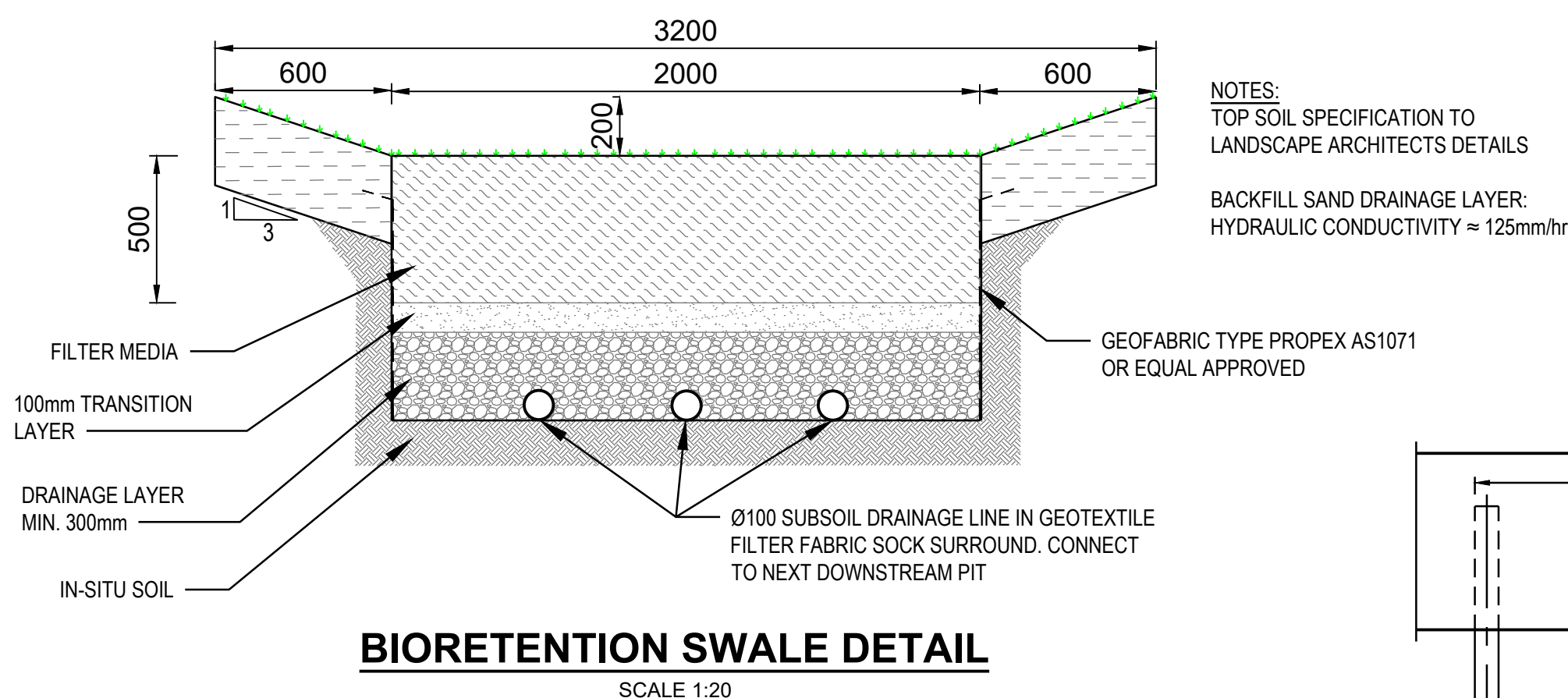
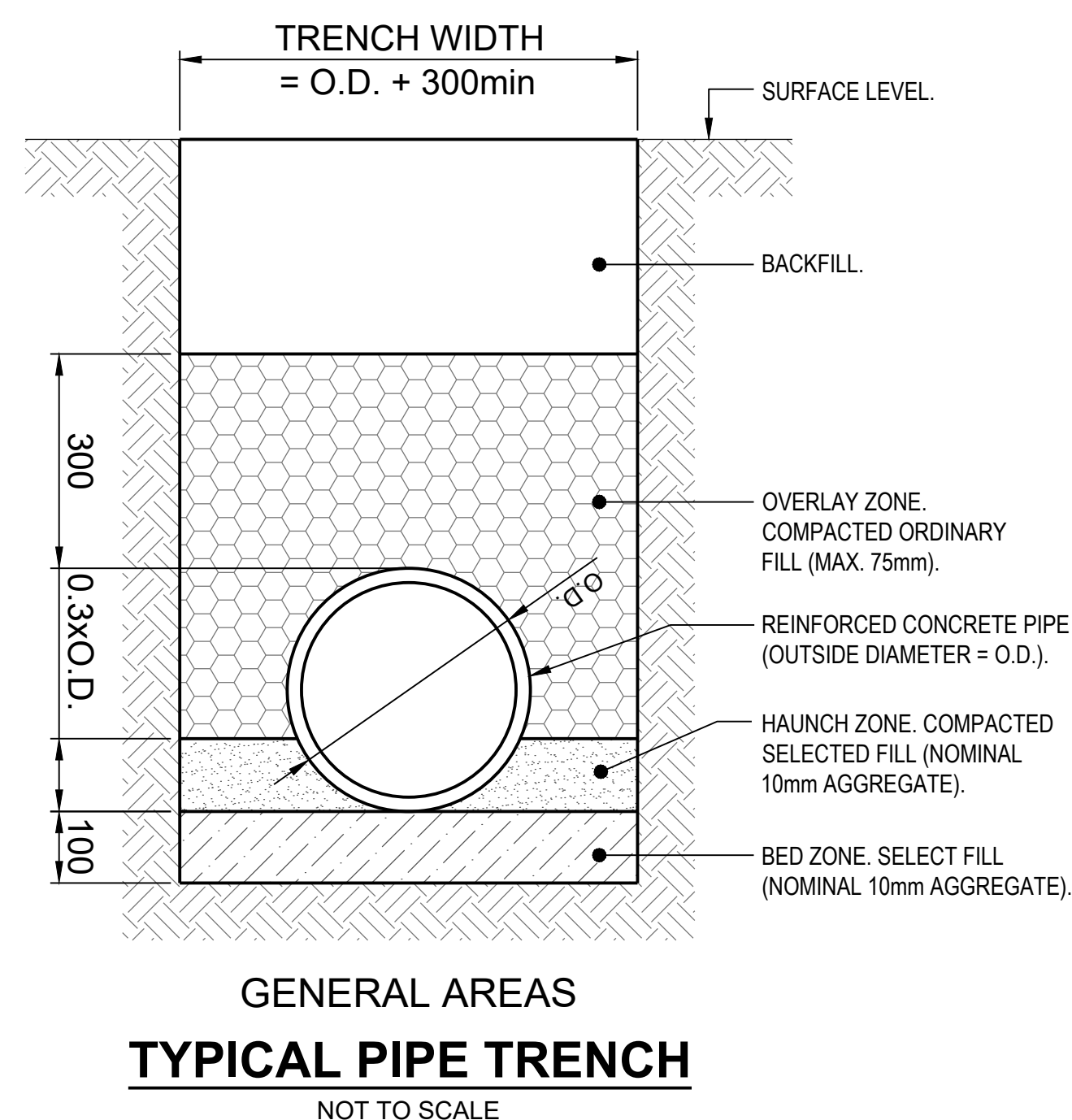
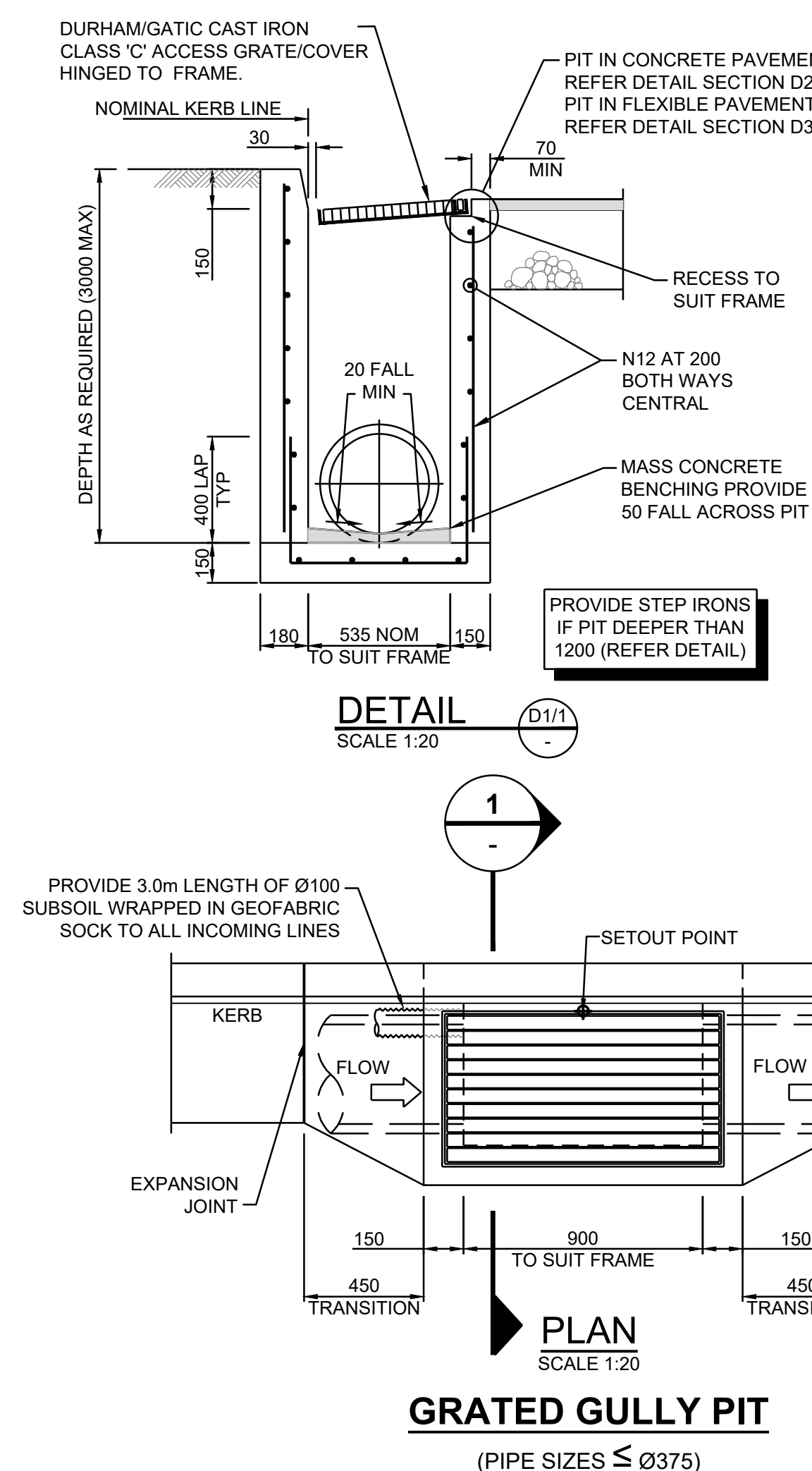
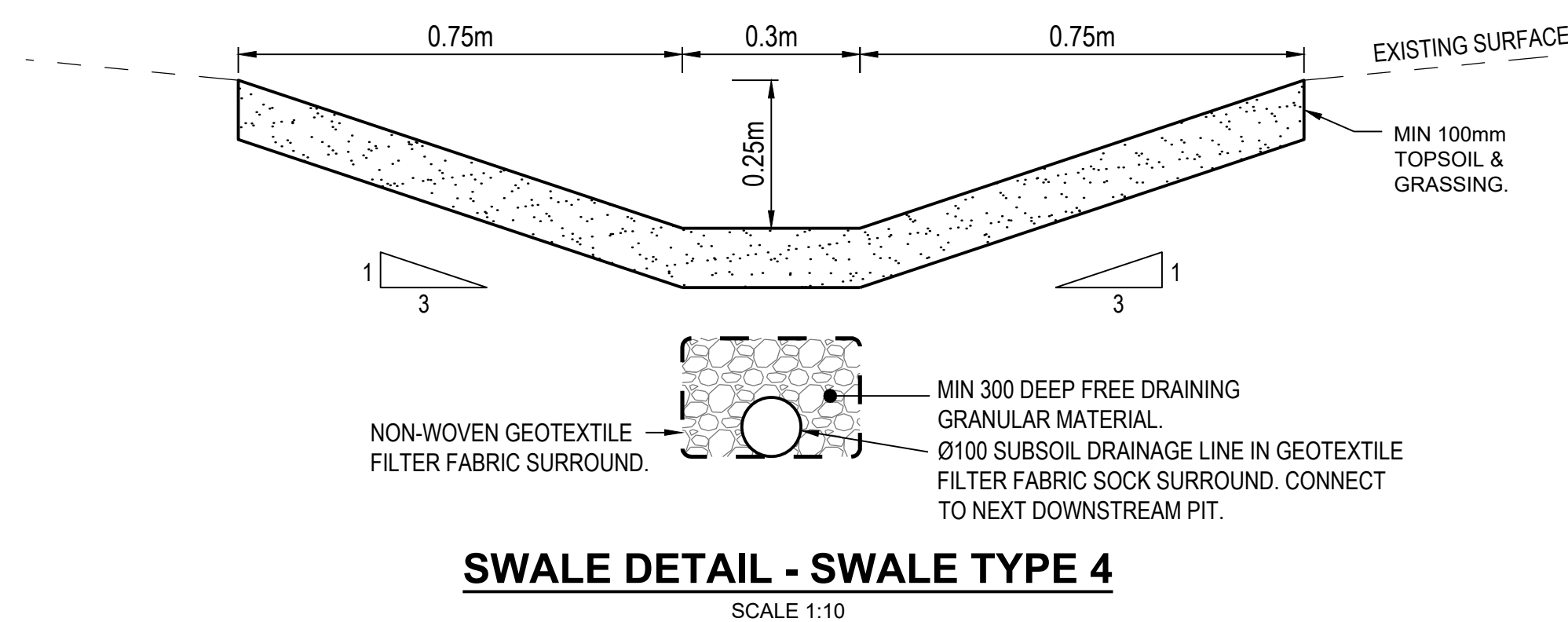
2

DATE

MARCH 2018

STATUS

DEVELOPMENT APPLICATION



CLIENT	SYDNEY CATHOLIC SCHOOLS
PROJECT	ST ANTHONY OF PADUA CATHOLIC SCHOOL

PREPARED BY



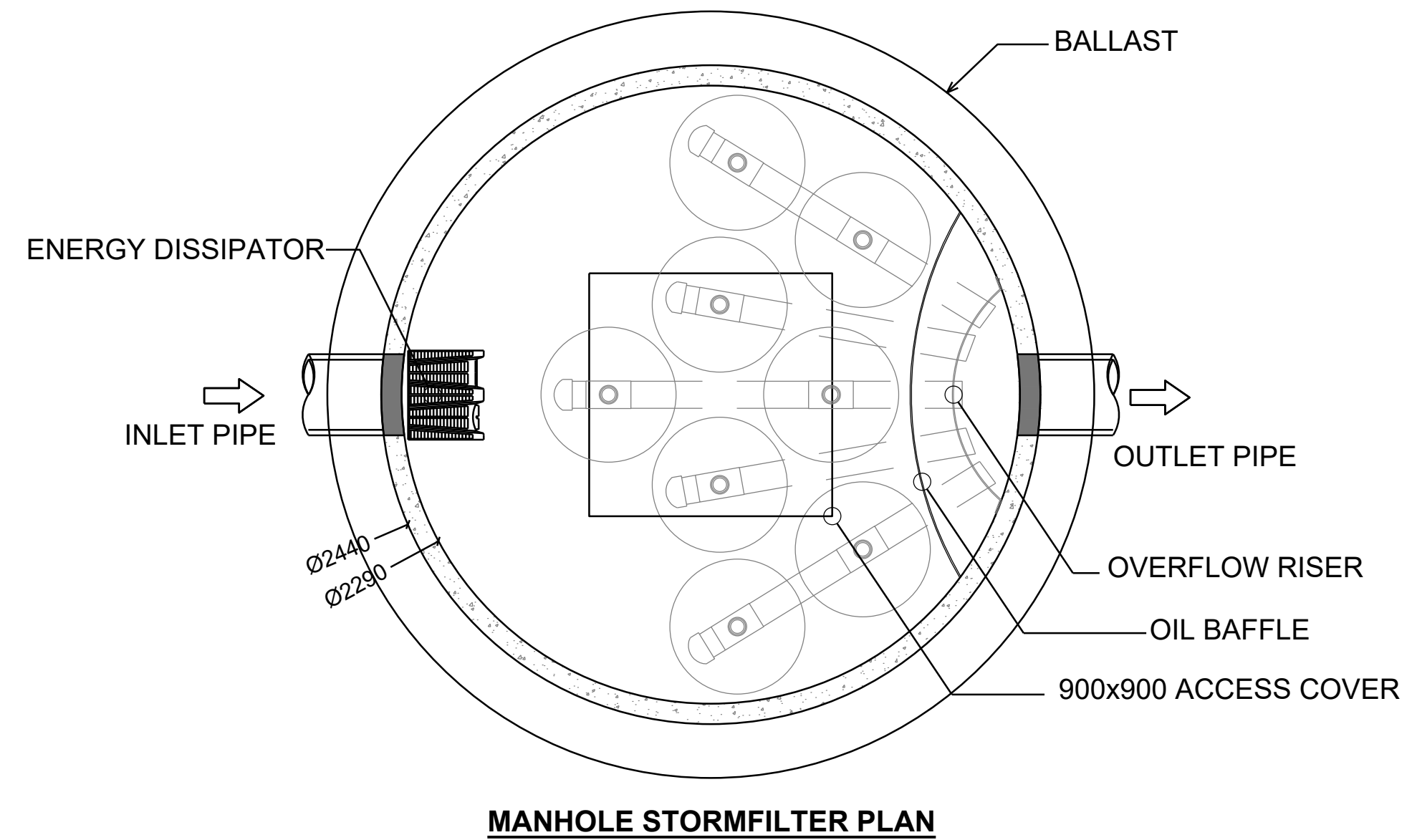
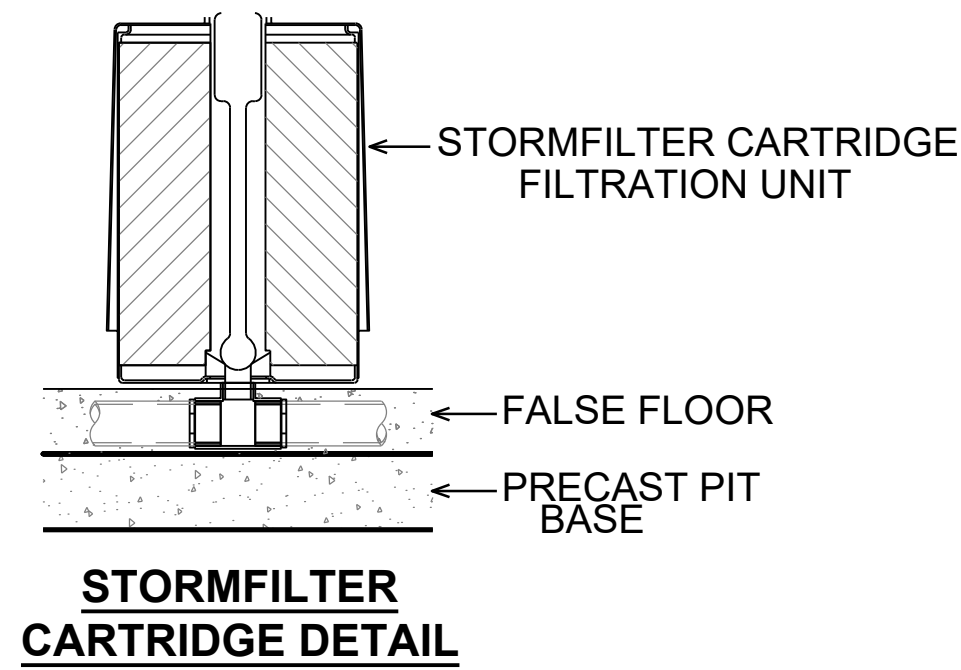
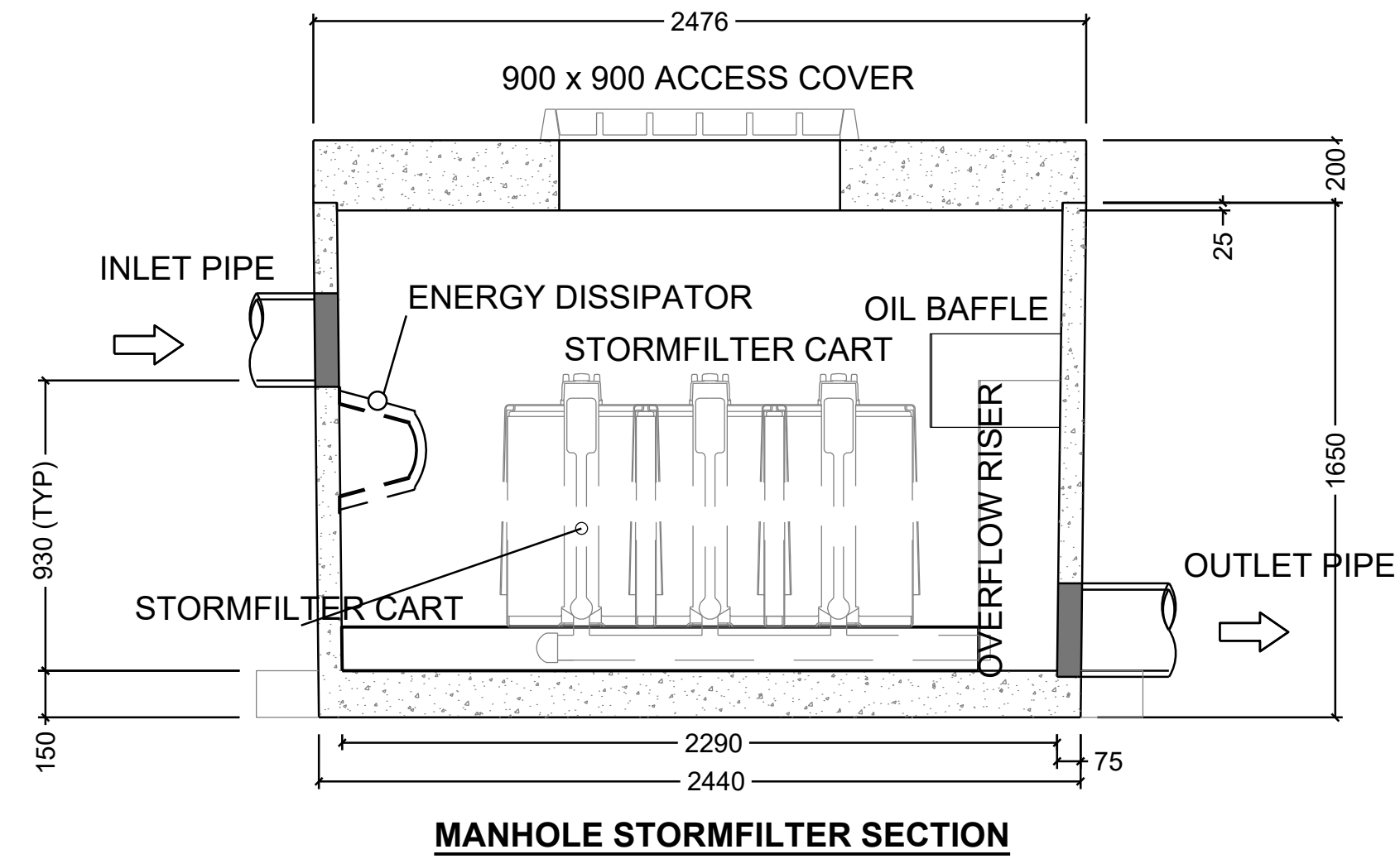
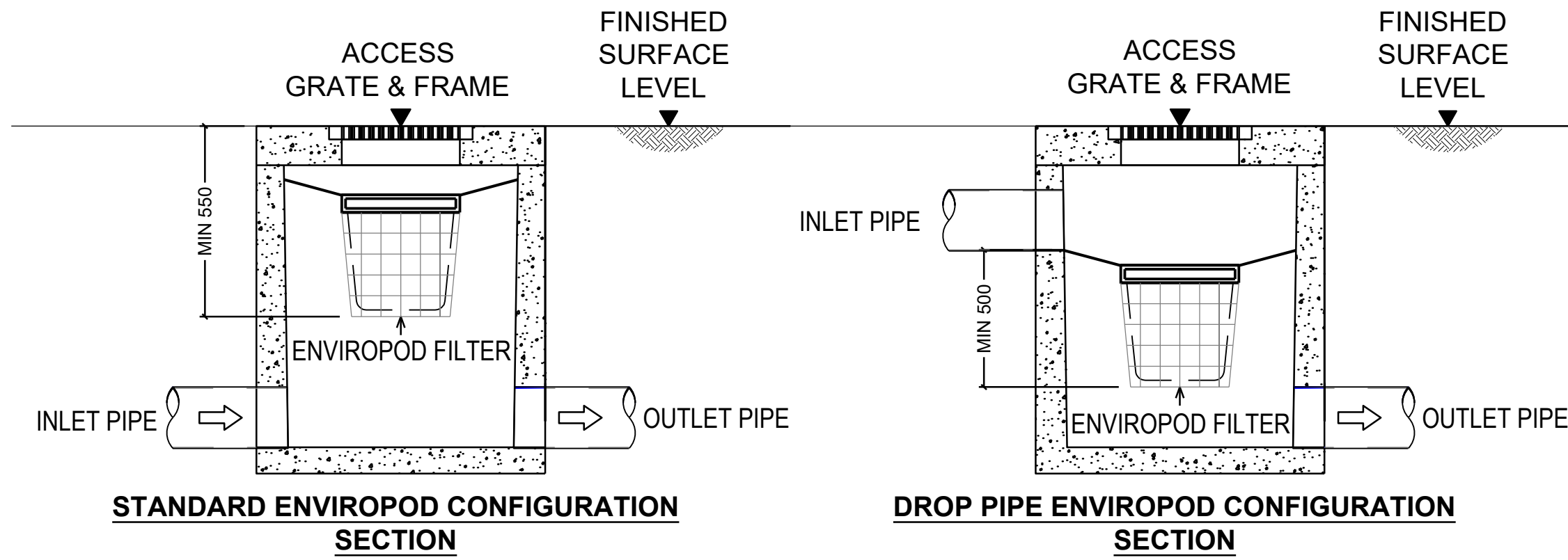
Warren Smith & Partners Pty Ltd
 1st Floor, 123 Clarence Street, Sydney 2000 NSW Australia
 T 02 9299 1312 F 02 9290 1295 vap@warrensmith.com.au
www.warrensmith.com.au **ABN 36 300 430 126**

CONSULTING ENGINEERS

- **Hydraulic Services** ■ **Fire Protection** ■ **Civil Engineering**
- **Sydney Water Accredited Water Servicing Co-ordinator**
- **Design Project Management** ■ **Building Plan Approvals**

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981

TITLE				
STORMWATER DRAINAGE DETAILS				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.CZ.	N.M.	L.Sh.	M.C.
JOB No.		DRAWINGS No.		ISSUE
5914000		C6.06		2
DATE	STATUS			
MARCH 2018	DEVELOPMENT APPLICATION			



PRELIMINARY - NOT FOR CONSTRUCTION

Rev: X591000.TB_A11
Date: 25/05/2018
User: m.c.
C:\F:\15914000\Drawings\AutoCAD\Design\2018\20180525\Stormwater 360 Treatment Device Typical Details.dwg

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	DEVELOPMENT APPLICATION	25/05/18			
2	DEVELOPMENT APPLICATION	19/07/18			

CLIENT
SYDNEY CATHOLIC SCHOOLS

PROJECT
ST ANTHONY OF PADUA CATHOLIC SCHOOL

PREPARED BY
Warren Smith & Partners
1st Floor, 123 Clarence Street, Sydney 2000 NSW Australia
T 02 9299 1312 F 02 9290 1295 wsp@warrensmith.com.au
www.warrensmith.com.au ABN 36 300 430 126

CONSULTING ENGINEERS
■ Hydraulic Services ■ Fire Protection ■ Civil Engineering
■ Sydney Water Accredited Water Servicing Co-ordinator
- Design Project Management - Building Plan Approvals

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE				
STORMWATER 360				
TREATMENT DEVICE TYPICAL				
DETAILS				
SCALE AS SHOWN	DRAWN M.CZ.	DESIGNED N.M.	CHECKED L.Sh.	APPROVED M.C.
JOB No. 5914000		DRAWINGS No. C6.07	ISSUE 2	
DATE MARCH 2018	STATUS DEVELOPMENT APPLICATION			