

DOCUMENTATION OF STORMWATER DESIGN

NEW DEVELOPMENT

EILEEN O'CONNOR CATHOLIC SCHOOL

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STORMWATER DRAWING LIST	
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LOCALITY PLAN

SCALE 1 : 2000 @A1

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BY CHKD DESCRIPTION					DATE REV		PHONE+61 2 8876 5300				COPYRIGHT: THIS DESIGN AND PLANS ARE NOT TO BE USED OR REPRODUCED WHOLLY OR IN PART WITHOUT WRITTEN PERMISSION FROM JAMES TAYLOR AND ASSOCIATES		SCALE As indicated		DATE		SW.1 D	



GENERAL

- G1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTS INCLUDING ALL WORKING DRAWINGS, MAIN CONTRACT, SPECIFICATIONS AND WRITTEN INSTRUCTIONS AS MAY BE ISSUED PRIOR TO OR DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES AND VARIATIONS SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- G2. ALL STORMWATER WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL RELEVANT AND CURRENT S.A.A. CODES.
- G3. CIVIL DRAWINGS SHALL NOT BE SCALED IN ORDER TO OBTAIN DIMENSIONS. DIMENSIONS WHERE SHOWN ON CIVIL DRAWINGS SHALL BE CO-ORDINATED WITH ALL OTHER RELEVANT DRAWINGS.

EARTHWORKS

1. THE CONTRACTOR SHALL PROVIDE PROPER FENCING, GUARDING, LIGHTING AND OBSERVATION OF ALL EARTHWORKS, TEMPORARY ROADWAYS, FOOTWAYS, GUARDS AND FENCES AS MAY BE RENDERED NECESSARY FOR THE ACCOMMODATION AND PROTECTION OF PEDESTRIANS, VEHICLES, ANIMALS AND THE PUBLIC.
2. DURING THE EXECUTION OF WORKS, THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING SERVICES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED TO THE EXISTING SERVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT SERVICE AUTHORITY, AT NO COST TO THE PRINCIPAL.
3. WHERE IT IS NECESSARY TO REMOVE, DIVERT OR CUT INTO ANY EXISTING SERVICE, THE CONTRACTOR SHALL GIVE AT LEAST THREE (3) DAYS NOTICE OF ITS REQUIREMENTS TO THE SUPERINTENDENT, WHO WILL ADVISE WHAT ARRANGEMENTS SHOULD BE MADE FOR THE ALTERATION OF SUCH EXISTING WORKS
4. THE EXCAVATION SHALL BE CARRIED OUT IN THE LOCATIONS SHOWN AND TO THE LEVELS, WIDTHS AND BATTER SLOPES INDICATED ON THE DRAWINGS.
5. EXCAVATED MATERIAL NOT MEETING THE SPECIFICATION FOR FILL MATERIAL SHALL BE DISPOSED OF OFF SITE IN AN APPROPRIATE MANNER.
6. WHERE EXCAVATION WORK IS REQUIRED IN THE VICINITY OF EXISTING SERVICES, THE CONTRACTOR SHALL SUPPORT ALL SERVICES DURING THE WORKS.
7. WHERE EXCAVATED MATERIAL IS TO BE USED FOR FILLING, THE MATERIAL SHALL BE INSPECTED AND APPROVED BY THE SUPERINTENDENT PRIOR TO USE.
8. UNLESS SPECIFIED OTHERWISE ALL FILL SHALL BE COMPACTED TO A STANDARD MAXIMUM DRY DENSITY RATIO BETWEEN 98% - 102% MAXIMUM AT -1% TO +3% OF STANDARD OPTIMUM MOISTURE CONTENT AS DETERMINED BY AS1289.5.4.1 (LATEST ADDITION)
9. ALL WASTE MATERIALS SHALL BE DISPOSED OFF-SITE IN AN APPROPRIATE MANNER.
10. WHERE ROCK IS EXPOSED DURING EXCAVATION, THE CONTRACTOR SHALL CEASE EXCAVATION AT THIS LOCALITY AND CONTACT THE SUPERINTENDENT WHO WILL THEN ADVISE ON THE LEVEL TO WHICH EXCAVATION IS TAKEN.
11. THE CONTRACTOR SHALL AT ITS OWN EXPENSE DO ALL THINGS NECESSARY TO DIVERT ANY WATER INTERFERING WITH THE PROGRESS OF WORKS, KEEP THE EXCAVATIONS AND TRENCHES FREE FROM WATER WHILE THE WORKS ARE IN PROGRESS AND PREVENT ANY DAMAGE TO THE WORKS BY WATER DUE TO FLOODS OR OTHER CAUSES. THE CONTRACTOR SHALL HAVE PUMPING EQUIPMENT FOR KEEPING THE EXCAVATION OR TRENCHES CONSTANTLY DEWATERED DURING THE TIMES THE WORKS ARE IN PROGRESS. ANY WORK OR MATERIAL DAMAGED BY WATER SHALL BE MADE GOOD BY THE CONTRACTOR.
12. WHERE DIRECTED BY THE SUPERINTENDENT THE BOTTOM OF TRENCHES OR EXCAVATIONS SHALL BE COMPACTED PRIOR TO THE PLACING OF ANY BEDDING OR CONCRETE MATERIALS. SHOULD, IN THE OPINION OF THE SUPERINTENDENT, THE FOUNDATION MATERIAL BE INCAPABLE OF EFFECTIVE COMPACTION, THE MATERIAL SHALL BE REMOVED AND REPLACED WITH APPROPRIATE MATERIAL.

GENERAL COMPACTION NOTES

1. FOUNDATION MATERIAL DEEMED BY THE SUPERINTENDENT AS UNSUITABLE TO BE REMOVED AS DIRECTED BY THE SUPERINTENDENT AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
2. UNLESS OTHERWISE APPROVED OR SPECIFIED, 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 20%
 - D) CBR > 10
3. SELECT FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200MM LOOSE THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS1289E3.1 OF NOT LESS THAN THE FOLLOWING STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289E1.1:
4. LOCATION STANDARD DRY DENSITY
- AREAS OF SERVICE TRENCHES 98%
 - EMBANKMENTS 100%
 - LANDSCAPED AREAS 90%
 - CONCRETE FOUNDATIONS 100%
5. THE CONTRACTOR SHALL PROGRAMME 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 HIS COST.
6. COMPACTION CONTROL TESTING SHALL BE CARRIED OUT BY AND AT THE COST OF THE CONTRACTOR TO CONFORM WITH LEVEL 1. AS DEFINED IN AS3798 (LATEST EDITION).

SOIL EROSION AND SEDIMENT CONTROL

1. THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE DRAWINGS.
2. THE CONTRACTOR SHALL CONSTRUCT OR INSTALL SOIL AND SEDIMENT CONTROL MEASURES TO THE SATISFACTION OF THE SUPERINTENDENT PRIOR TO ANY DISTURBANCES TO THE SITE. SOIL AND SEDIMENT CONTROL DEVICES SHALL BE AS SHOWN THE DRAWINGS. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SEDIMENT FROM SUCH DEVICES BEFORE 50% CAPACITY IS USED. ALL THE ACCUMULATED SEDIMENT SHALL BE RE-SPREAD OR REMOVED IN ACCORDANCE WITH THE SUPERINTENDENTS INSTRUCTIONS. THE DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE DISTURBED AREAS HAVE BEEN REHABILITATED TO A CONDITION SATISFACTORY TO THE SUPERINTENDENT.
3. THE CONTRACTOR SHALL MAINTAIN ALL REVEGETATED AREAS INCLUDING WATERING AND FERTILISING UNTIL SUCH TIME AS THE VEGETATION HAS STABILISED (MINIMUM TIME IS AT LEAST UNTIL THE END OF THE WORKS).
4. VEHICULAR ACCESS TO THE SITE SHALL BE CONTROLLED THROUGH THE ACCESS POINTS IDENTIFIED ON THE DRAWINGS. VEHICLES NOT REQUIRED IN THE PERFORMANCE OF THE WORKS SHALL BE PARKED OFF SITE AWAY FROM DISTURBED AREAS.
5. A VEHICLE WASHDOWN BAY FOR ALL SITES INCLUDING A 25mm DIAM. HOSE SHALL BE PROVIDED.
6. THE CONTRACTOR SHALL ENSURE TEMPORARY CONTROLS DO NOT DAMAGE EXISTING STRUCTURES.
7. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO SITE DISTURBANCE.
8. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED FOLLOWING EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SITE.
9. THE CONTRACTOR SHALL INFORM ALL SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN
10. ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END OF THE DAYS ACTIVITIES.
11. THE CONTRACTOR MUST ENSURE THE STABILITY AND INTEGRITY OF ALL WORKS AT THE END OF EACH DAYS WORK
12. NOMINATED UNDISTURBED AREAS SHALL BE BARRICADED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
13. PUBLIC ROADS ARE TO BE SWEEP FREE OF DEBRIS RESULTING FROM CONSTRUCTION ACTIVITIES. SWEEPING SHALL BE UNDERTAKEN AT A MINIMUM TWICE WEEKLY.
14. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LOCATED ON EXISTING ACCESS TRACKS OR ROADWAYS SO AS NOT TO ENCROACH ON TRAFFIC. ALL EROSION CONTROL MEASURES PLACED SHALL BE CLEARLY IDENTIFIABLE DURING BOTH DAY AND NIGHT. EROSION CONTROL MEASURES SHALL BE COORDINATED WITH THE CONTRACTORS TRAFFIC MANAGEMENT PLANS IN ORDER TO LIMIT 'CLUTTERING' OF THE EXISTING TRAFFICABLE AREAS.
15. ALL DISTURBED AREAS ARE TO BE HYDRO MULCHED ON COMPLETION OF THE ROAD CONSTRUCTION WORKS.
16. TURFED AREAS ADJACENT TO CONSTRUCTION AREA ARE TO BE MAINTAINED TO PROVIDE A VEGETATED BUFFER STRIP.
17. THE CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL PRIOR TO EXCAVATION OR FILLING. TOPSOIL SHALL BE RESPREAD ON THE COMPLETION OF EARTHWORKS.
18. THE CONTRACTOR SHALL STABILISE ALL DISTURBED AREAS AND STOCKPILES WITHIN 14 DAYS.
19. THE CONTRACTOR SHALL TAKE CARE NOT TO DISTURB ANY PORTION OF THE SITE OTHER THAN IN THE IMMEDIATE AREA OF WORKS.

EXISTING SERVICES

1. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA. THE ACCURACY IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK. ALL CLEARANCES AND APPROVALS SHALL ALSO BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY PRIOR TO THE COMMENCEMENT OF WORK.
2. ALL NEW AND EXHUMED SERVICES THAT CROSS EXISTING AND FUTURE ROADS/PAVEMENTS WITHIN THE SITE SHALL BE BACKFILLED WITH DGB20 MATERIAL TO SUBGRADE LEVEL AND COMPACTED TO 98% STANDARD DENSITY RATIO. SUBJECT TO PRIOR APPROVAL FROM RELEVANT AUTHORITY.
3. ON COMPLETION OF SERVICES INSTALLATION. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
4. CARE TO BE TAKEN WHEN EXCAVATING NEAR UTILITY SERVICES. NO MECHANICAL EXCAVATION TO BE UNDERTAKEN OVER UTILITIES SERVICES. LIAISE WITH RELEVANT AUTHORITY.
5. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS WITHIN THE CONTRACT AREA AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL TO REGULATORY AUTHORITY STANDARDS AND APPROVAL.
6. THE CONTRACTOR IS TO MAINTAIN EXISTING STORMWATER DRAINAGE FLOWS THROUGH THE SITE AT ALL TIMES. MAKE DUE ALLOWANCE FOR ALL SUCH FLOWS AT ALL TIMES.
7. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL OBTAIN THE SUPERINTENDENT'S APPROVAL OF THE PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
8. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES AS REQUIRED TO MAINTAIN EXISTING SUPPLY TO ADJOINING PROPERTIES 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.
9. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE OR DAMAGE TO THE ADJACENT RESIDENCES. CONTRACTOR TO GAIN APPROVAL OF THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
10. THE CONTRACTOR SHALL UNDERTAKE A DIAL BEFORE YOU DIG (DBYD 1100) SERVICES SEARCH IN ADDITION TO PHYSICAL FIELD LOCATION BEFORE THE COMMENCEMENT OF ANY WORKS.

SUBSOIL DRAINAGE

1. ALL STORMWATER WORKS ARE TO BE UNDERTAKEN GENERALLY IN ACCORDANCE WITH AS 3500 (LATEST EDITION) STORMWATER DRAINAGE.
2. ALL PIPEWORK SHALL BE BEDDED ON A CONTINUOUS UNDERLAY OF SAND, NOT LESS THAN 75mm THICK IN OTHER THAN ROCK AND 200mm THICK IN ROCK AFTER COMPACTION. THE SAND SHALL BE GRADED IN ACCORDANCE WITH AS3500 (LATEST EDITION) AND COMPACTED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY AND SHALL BE GRADED EVENLY TO THE REQUIRED GRADIENT OF THE PIPELINE.
3. IN WET OR UNSTABLE GROUND CONDITIONS WHERE THE TRENCH BOTTOM REQUIRES FURTHER STABILIZING, ADDITIONAL BEDDING OF 20mm AND/OR 30mm NOMINAL SIZE AGGREGATE (AS DIRECTED BY THE SUPERINTENDENT), SHALL BE PLACED BELOW THE STANDARD BEDDING TO A DEPTH DETERMINED BY THE SUPERINTENDENT, WHERE ORDERED BY THE SUPERINTENDENT AN APPROVED FILTER FABRIC SHALL BE USED IN CONJUNCTION WITH THE ADDITIONAL BEDDING.
4. THE BED MATERIAL SHALL BE COMPACTED FOR THE FULL WIDTH OF THE TRENCH BY A MINIMUM OF TWO PASSES OF A VIBRATING PLATE OR HAND TAMPING METHOD TO THE SATISFACTION OF THE SUPERINTENDENT.
5. CHASES SHALL BE FORMED WHERE NECESSARY TO PREVENT SOCKETS, FLANGES OR THE LIKE FROM BEARING ON THE TRENCH BOTTOM OR THE UNDERLAY.
6. THE CONTRACTOR SHALL ENSURE THAT ANY EXISTING STRUCTURES LOCATED ADJACENT TO EXCAVATED TRENCHES ARE SUPPORTED OR PROTECTED TO PREVENT DAMAGE TO OR MOVEMENT OF THESE STRUCTURES
7. THE CONTRACTOR MUST LEAVE ALL SUBSOIL DRAINAGE WORKS UNCOVERED UNTIL ANY TESTING DEEMED NECESSARY BY THE SUPERINTENDENT HAS BEEN PERFORMED.
8. PIPE LAYING SHALL BEGIN AT THE DOWNSTREAM END OF THE LINE.
9. JOINTS SHALL NOT BE MADE UNDERWATER. THE TRENCH SHALL BE DEWATERED TO FACILITATE JOINT MAKING AND INSPECTION. PRECAUTIONS SHALL BE TAKEN TO PREVENT EROSION OF JOINT MATERIAL BY MOVING CURRENTS OF WATER.
10. DRAINAGE LINES SHALL BE CONSTRUCTED TO THE TOLERANCES AS FOLLOWS:
- | PIPELINE GRADING | LINE TOLERANCE (mm) | LEVEL TOLERANCE (mm) |
|-------------------|---------------------|----------------------|
| - LESS THAN 0.6% | 50 | 10 |
| - 0.6% TO 1% | 50 | 20 |
| - GREATER THAN 1% | 50 | 40 |
- NOT WITHSTANDING THE TOLERANCES ABOVE EACH SUBSOIL DRAIN SHALL HAVE A MINIMUM FALL (OF 0.5%) IN THE DIRECTION OF FLOW.
11. BACKFILL MATERIAL SHALL BE INSPECTED AND APPROVED BY THE SUPERINTENDENT PRIOR TO PLACING AND COMPACTION.
12. ALL BACKFILL FOR SUBSOIL DRAINAGE WORKS IS TO BE COMPACTED IN LAYERS NOT EXCEEDING 300mm LOOSE THICKNESS AND COMPACTED WITHOUT DAMAGING OR DISPLACING THE PIPEWORK.
13. BACKFILL FOR SUBSOIL PIPES SHALL BE COMPACTED TO AT LEAST 95% (98% UNDER ROADS) OF THE MAXIMUM DRY DENSITY AT -2% TO +2% OF OPTIMAL MOISTURE CONTENT AND GRADED IN ACCORDANCE WITH AS 3500.3 (LATEST EDITION).
14. 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 CEMENT RENDERED WITH AN EPDXY GROUT TO ENSURE A SMOOTH FINISH.

QUALITY ASSURANCE

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN A QUALITY ASSURANCE SYSTEM MEETING THE REQUIREMENTS OF AS 9002 (LATEST EDITION). THE QUALITY SYSTEM SHALL BE SUCH THAT RECORDS ARE KEPT OF ALL ASPECTS AND STAGES OF THE WORK.
2. THE RECORDS FOR EACH CONSTRUCTION TASK SHALL BE STAGED AND ITEMISED TO THE SATISFACTION OF THE CONTRACTOR ADMINISTRATOR. THE PROFORMAS FOR RECORDS SHALL BE SUBMITTED TO THE CONTRACTOR ADMINISTRATOR FOR APPROVAL AND WORK SHALL NOT COMMENCE UNTIL SUCH APPROVAL HAS BEEN GIVEN.
3. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN ACCURATE AND UP TO DATE RECORDS AND SHALL MAKE SUCH RECORDS AVAILABLE TO THE CONTRACTOR ADMINISTRATOR IF REQUESTED. FAILURE TO MAINTAIN RECORDS AS SPECIFIED WILL RESULT IN THE CONTRACTOR RE-INSPECTING COMPLETED WORKS IF INSTRUCTED TO DO SO BY THE CONTRACTOR ADMINISTRATOR.
4. AT THE COMPLETION OF EACH STAGE OF THE WORKS THE CONTRACTOR SHALL CERTIFY THAT THOSE WORKS HAVE BEEN UNDERTAKEN AND COMPLETED IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATION AND INSTRUCTIONS ISSUED DURING THE COURSE OF THE CONTRACT.

STORMWATER NOTES

1. ALL STORMWATER WORKS ARE TO BE UNDERTAKEN GENERALLY IN ACCORDANCE WITH AS 3500 (LATEST EDITION) STORMWATER DRAINAGE.
2. UNLESS OTHERWISE APPROVED ALL DRAINAGE PIPES SHALL BE APPROVED SPIGOT AND SOCKET RCP PIPES WITH RUBBER RING JOINTS, CLASS '2'.
3. ALL PIPE JUNCTIONS UP TO AND INCLUDING 450DIA AND ALL TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.
4. THE CONTRACTOR IS TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION TO DISSIMILAR PIPEWORK.
5. 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 WITH A NON SHRINK EPDXY GROUT TO ENSURE A SMOOTH FINISH.
6. STEP IRONS AT SPACINGS OF 0.3M ARE TO BE PROVIDED IN DRAINAGE PITS MORE THAN 1.0M DEEP.
7. PROVIDE 3.0M LENGTH OF 100DIA SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK AT UPSTREAM END OF EACH PIT.
8. ALL CONCRETE USED IN DRAINAGE PITS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 32MPA.
9. THE EXCAVATED TRENCH WIDTH FOR PIPE LAYING MUST BE AT LEAST 300mm WIDER THAN THE OUTER DIAMETER OF THE PIPE. PIPES ARE TO BE LAID CENTRALLY WITHIN THE EXCAVATED TRENCH.
10. ALL PIPES ARE TO BE LAID ON A MINIMUM BEDDING OF 75mm OF SAND GRADED IN ACCORDANCE WITH AS 3500.3 (LATEST EDITION). BEDDING SHALL BE COMPACTED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY.
11. BACKFILL FOR STORMWATER PITS AND PIPES SHALL BE COMPACTED TO AT LEAST 95% (98% UNDER ROADS) OF THE MAXIMUM DRY DENSITY AND GRADED IN ACCORDANCE WITH AS 3500.3 (LATEST EDITION).
12. BACKFILL MATERIAL SHALL BE INSPECTED AND APPROVED BY THE SUPERINTENDENT PRIOR TO PLACING AND COMPACTION.
13. UNLESS OTHERWISE SPECIFIED PIPE TRENCH TO BE TYPE H2.
14. THE CONTRACTOR SHALL ENSURE THAT ANY EXISTING STRUCTURES LOCATED ADJACENT TO EXCAVATED TRENCHES ARE SUPPORTED OR PROTECTED TO PREVENT DAMAGE TO OR MOVEMENT OF THESE STRUCTURES
15. UNLESS SPECIFIED ALL DRAINAGE GRATES TO BE CLASS C HEAVY DUTY GALVANISED MILD STEEL TO AS 3996 (LATEST EDITION).
16. CHASES SHALL BE FORMED WHERE NECESSARY TO PREVENT SOCKETS, FLANGES OR THE LIKE FROM BEARING ON THE TRENCH BOTTOM OR THE UNDERLAY.
17. MATERIAL SHALL BE PLACED IN THE PIPE SURROUND IN LAYERS NOT MORE THAN 200mm LOOSE THICKNESS AND COMPACT WITHOUT DAMAGING OR DISPLACING THE PIPEWORK. CARE TO BE TAKEN IN VICINITY OF EXISTING SERVICES.
18. UPVC PIPES SHALL CONFORM IN ALL RESPECTS WITH THE REQUIREMENTS OF AS1254 (LATEST EDITION). THE CLASS OF PIPES SHALL BE UPVC "STORMWATER HD" DESIGNED FOR SOLVENT WELD SPIGOT AND SOCKET CONNECTION UNLESS NOTED OTHERWISE.
19. UPVC PIPES SHALL BE SUPPLIED WITH SUFFICIENT QUANTITIES OF SOLVENT FOR MAKING OF THE PIPE JOINTS.
20. UPVC PIPES SHALL BE TRANSPORTED, HANDLED AND STACKED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
21. UPVC PIPE LAYING SHALL BEGIN AT THE DOWNSTREAM END OF THE LINE WITH THE SOCKET END OF THE PIPE FACING UPSTREAM. WHEN THE PIPES ARE LAID, THE BARREL OF EACH PIPE SHALL BE IN CONTACT WITH THE BEDDING MATERIAL THROUGHOUT ITS FULL LENGTH.
22. THE UPVC PIPE ENDS SHALL BE THOROUGHLY CLEANED BEFORE THE JOINT IS MADE. JOINTING SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS USING JOINTING SOLVENT AND PRIMER.

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STORMWATER DESIGN - GENERAL NOTES

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CHKD.		DRAWING NO.	REV
APPRD.		SW.2	C
SCALE 1 : 1	DATE		



STORMWATER CATCHMENT PLAN - EXISTING SITE
SCALE1 : 250 @A1

LEGEND

- ROOF AREA
- PAVED/IMPERVIOUS AREA
- GRASSED/PERVIOUS AREA

REFER DRAWING SW.1 FOR REFERENCE DOCUMENTS.

EXISTING SITE CONDITIONS

TOTAL SITE AREA = 1.2838 ha
ROOF AREA = 0.0457 ha
PAVED/IMPERVIOUS AREA = 0.1573 ha
GRASSED/PERVIOUS AREA = 1.0808 ha
TOTAL IMPERVIOUS AREA = 0.2030 ha OR 16%



COLOUR REPRODUCTION WARNING:
ELEMENTS OF THIS DRAWING
ARE PRINTED IN COLOUR.

HL	JM	FOR SSDA	13.03.2025	C	
HL	JM	FOR REVIEW	19.12.2024	B	
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Catholic School

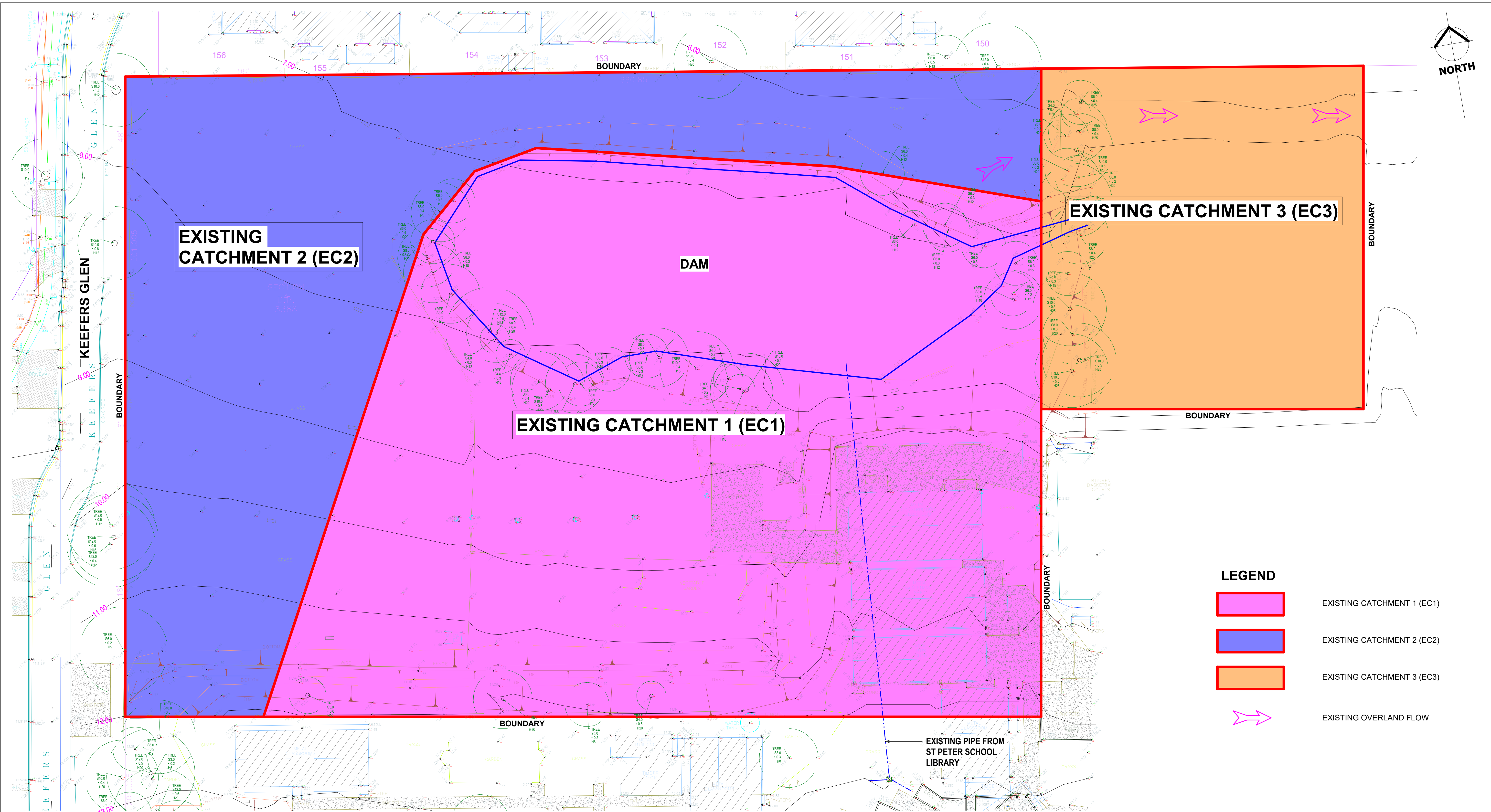


CATHOLIC SCHOOLS
Broken Bay

PROJECT
EILEEN O'CONNOR CATHOLIC SCHOOL
STORMWATER CATCHMENT PLAN - EXISTING SITE

James Taylor & Associates
Civil & Structural Consulting Engineers
SUITE 301, 115 MILITARY ROAD NEUTRAL BAY NSW 2089
A.B.N. 33 102 603 558
TEL: 02 99691999 EMAIL: mail@jamestaylorassociates.com.au

DESIGN JM	DRAWN HL	PROJECT NO.	6588
CHKD.		DRAWING NO.	SW.3
APPRD.		REV	C
SCALE 1 : 250	DATE		



STORMWATER CATCHMENT BOUNDARIES - EXISTING SITE
SCALE1 : 250 @A1

CATCHMENT SITE CONDITIONS

CATCHMENT	TOTAL AREA	IMPERVIOUS AREA	% IMPERVIOUS	PERVIOUS AREA	% PERVIOUS
EC1	0.6897 ha	0.0449 ha	7%	0.6448 ha	93%
EC2	0.3921 ha	0 m²	0%	0.3921 ha	100%
EC3	0.2020 ha	0.1581 ha	78%	0.0439 ha	22%
TOTAL	1.2838 ha	0.2030 ha	16%	1.0808 ha	84%

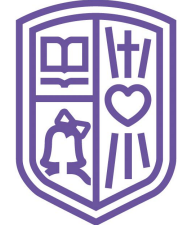


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HL	JM	FOR SSDA	13.03.2025	C
HL	JM	FOR REVIEW	19.12.2024	B
HL	JM	FOR REVIEW	29.11.2024	A

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Catholic School



CATHOLIC SCHOOLS
Broken Bay

PROJECT

EILEEN O'CONNOR CATHOLIC SCHOOL

**STORMWATER CATCHMENT
BOUNDARIES - EXISTING SITE**

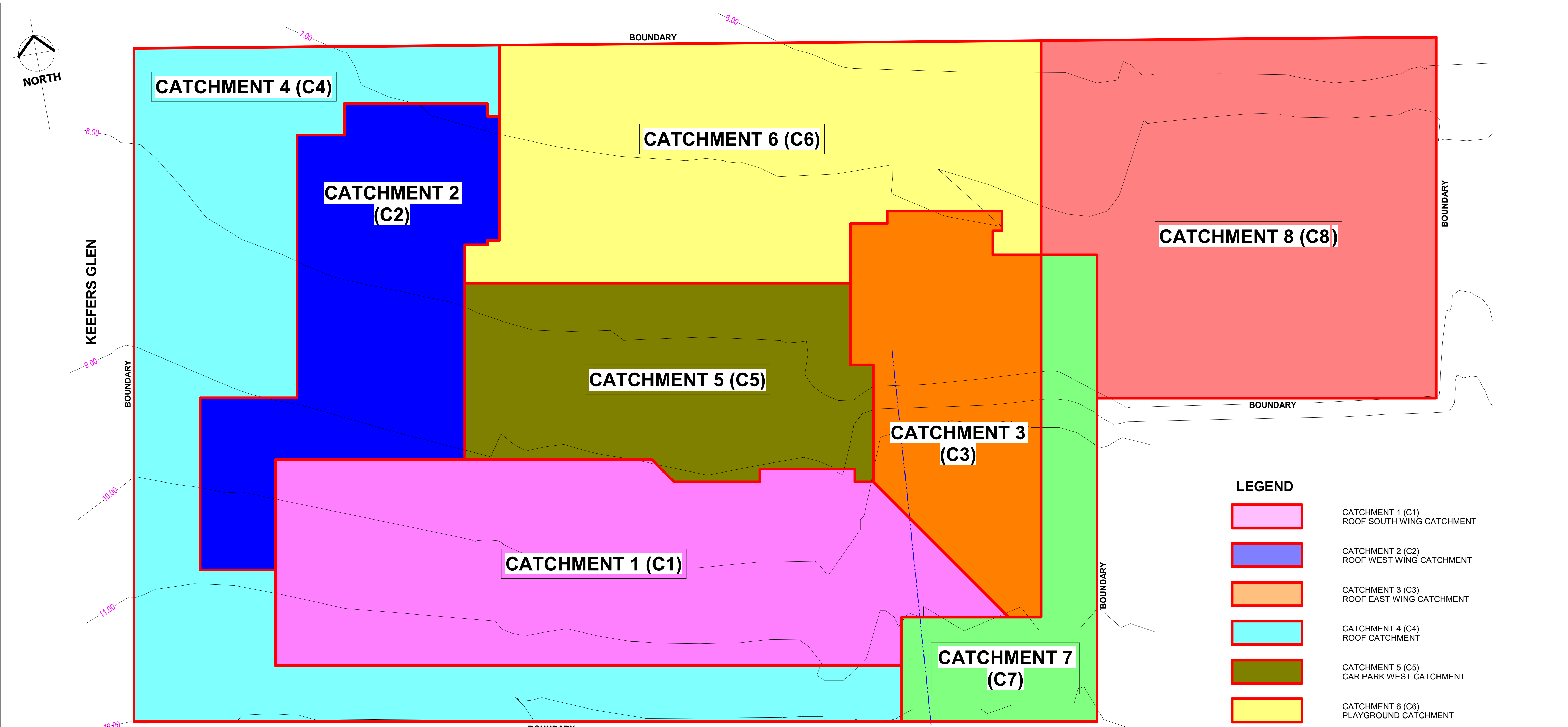
James Taylor & Associates
Civil & Structural Consulting Engineers
SUITE 301, 115 MILITARY ROAD NEUTRAL BAY NSW 2089
A.B.N. 33 102 603 558
TEL: 02 99691999 EMAIL: mail@jamestaylorassociates.com.au

DESIGN	JM	DRAWN	HL
CHKD.			
APPRD.			
SCALE	As indicated	DATE	

PROJECT NO.
6588

DRAWING NO.
SW.5

REV
C



STORMWATER CATCHMENT BOUNDARIES - PROPOSED SITE

SCALE1 : 250 @A1

CATCHMENT SITE CONDITIONS

CATCHMENT	TOTAL AREA	IMPERVIOUS AREA	% IMPERVIOUS	PERVIOUS AREA	% PERVIOUS
C1	0.2159 ha	0.2159 ha	100%	0 ha	0%
C2	0.1280 ha	0.1280 ha	100%	0 ha	0%
C3	0.0997 ha	0.0997 ha	100%	0 ha	0%
C4	0.2295 ha	0.1627 ha	71%	0.0668 ha	29%
C5	0.1222 ha	0.0917 ha	75%	0.0305 ha	25%
C6	0.1991 ha	0.0711 ha	36%	0.1280 ha	64%
C7	0.0674 ha	0.0559 ha	83%	0.0115 ha	17%
C8	0.2220 ha	0.0558 ha	25%	0.1662 ha	75%
TOTAL	1.2838 ha	0.8808 ha	69%	0.4030 ha	31%



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HL	JM	FOR SSDA	13.03.2025	C	
HL	JM	FOR REVIEW	19.12.2024	B	
HL	JM	FOR REVIEW	29.11.2024	A	
BY	CHKD	DESCRIPTION	DATE	REV	

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PROJECT
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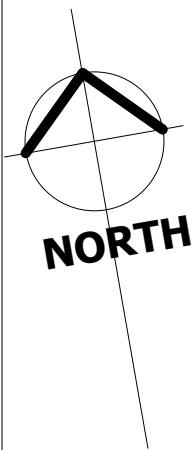
STORMWATER CATCHMENT BOUNDARIES - PROPOSED SITE

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APPRD.			
SCALE	As indicated	DATE	

PROJECT NO.
6588

DRAWING NO. REV
SW.6 C



BACKGOURND IMAGE SOURCED FROM
CENTRAL COAST COUNCIL 2024

STORMWATER UPSTREAM CATCHMENT BOUNDARIES

SCALE1 : 1500 @A1

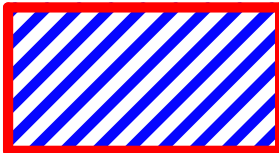
UPSTREAM CATCHMENT SITE CONDITIONS

CATCHMENT	TOTAL AREA	IMPERVIOUS AREA	% IMPERVIOUS	PERVIOUS AREA	% PERVIOUS
UC1	0.3040 ha	0.2888 ha	95%	0.0152 ha	5%
UC2	2.5100 ha	0.3164 ha	13%	2.1936 ha	87%
UC3	0.6670 ha	0.1680 ha	25%	0.4990 ha	75%
UC4	6.2765 ha	0.7679 ha	12%	5.5086 ha	88%

LEGEND



UPSTREAM CATCHMENT 1 (UC1)



UPSTREAM CATCHMENT 2 (UC2)



UPSTREAM CATCHMENT 3 (UC3)



UPSTREAM CATCHMENT 4 (UC4)



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BY	CHKD	DESCRIPTION	DATE	REV	

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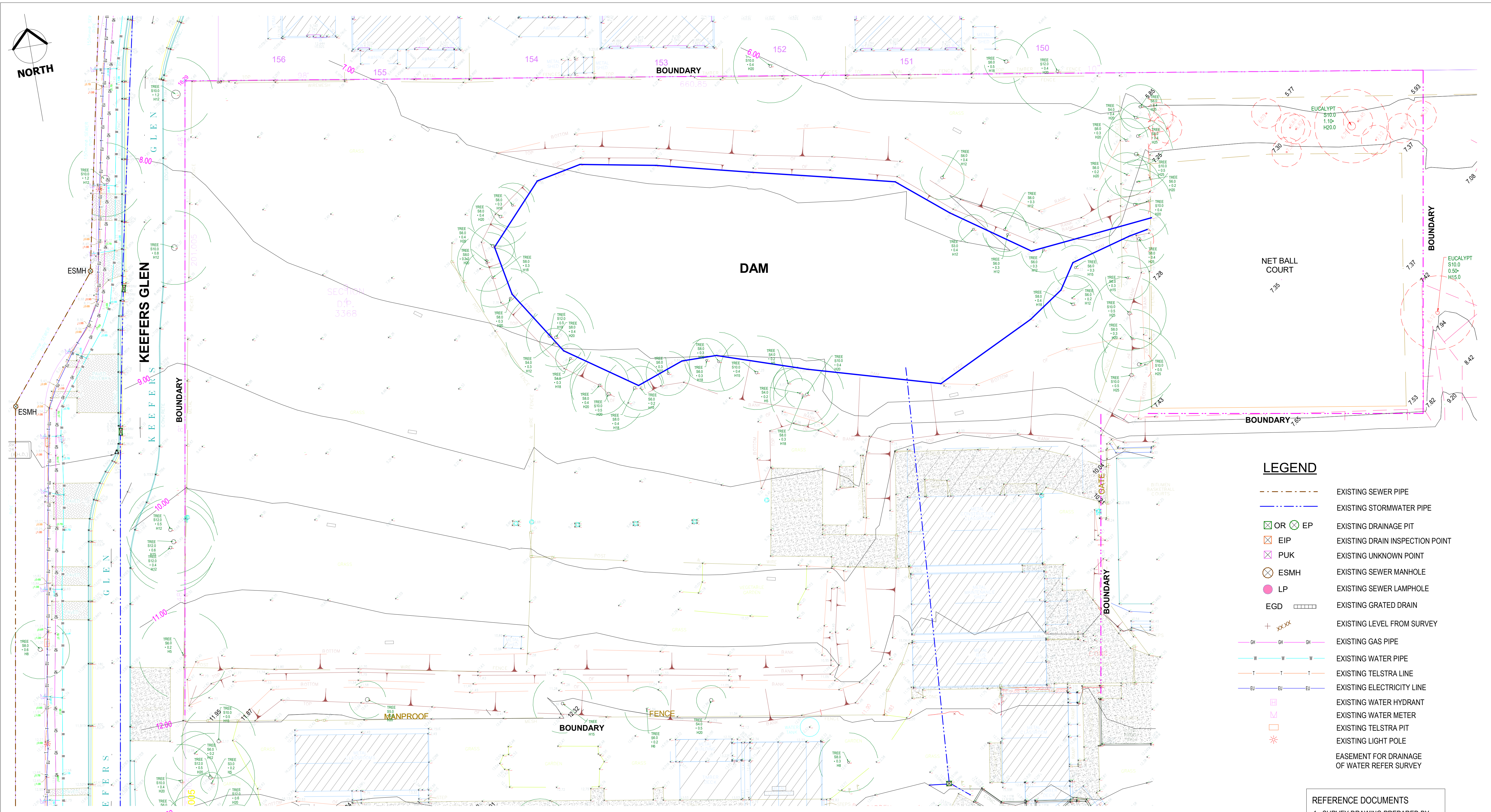
PROJECT
EILEEN O'CONNOR CATHOLIC SCHOOL
**STORMWATER UPSTREAM CATCHMENT
BOUNDARIES**

James Taylor & Associates
Civil & Structural Consulting Engineers
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SCALE	As indicated	DATE	

PROJECT NO.
6588

DRAWING NO.	REV
SW.7	C



EXISTING SERVICES PLAN - OVERVIEW

SCALE 1 : 250 @A1



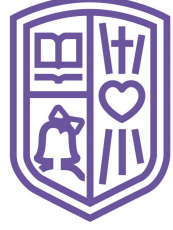
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- REFERENCE DOCUMENTS
1. SURVEY DRAWING PREPARED BY:
Degotardi Smith & Partners
Ph. +61 2 9440 1100
SURVEY REFERENCE: 36347
DRAWING NUMBER: 36347A01.DWG
REV. B
DATED: 09/09/2024
 2. SURVEY DRAWING PREPARED BY:
Degotardi Smith & Partners
Ph. +61 2 9440 1100
SURVEY REFERENCE: 36347
DRAWING NUMBER: 36347A02.DWG
REV. E
DATED: 12/06/2023

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HL	JM	FOR REVIEW	19.12.2024	B	
HL	JM	FOR REVIEW	29.11.2024	A	
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Broken Bay

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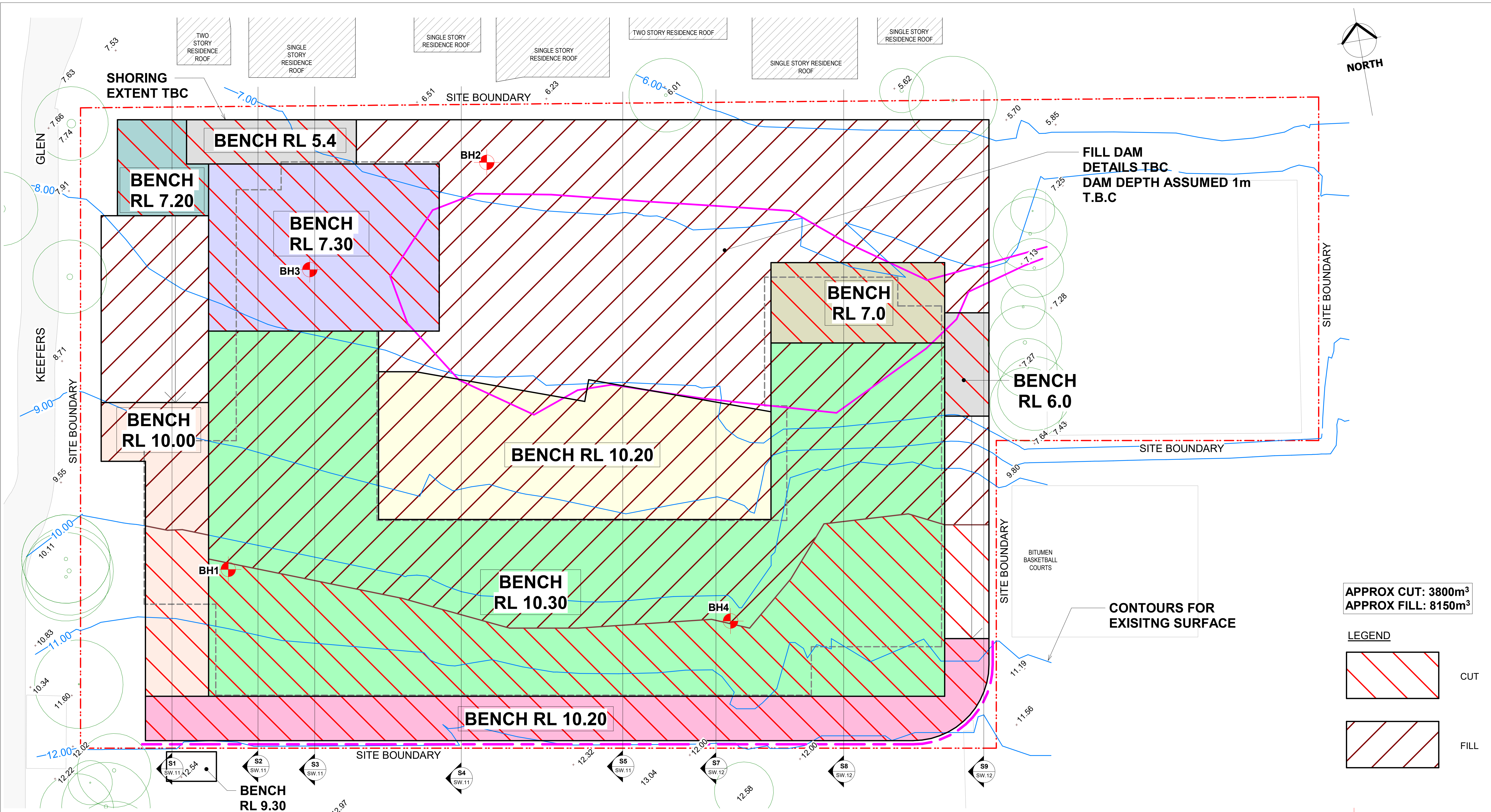
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EXISTING SERVICES PLAN - OVERVIEW

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SCALE As indicated	DATE	SW.9
		REV C


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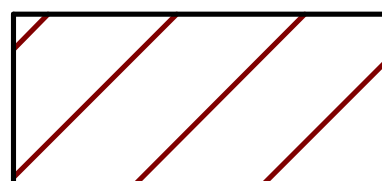



EXCAVATION PLAN
SCALE1 : 250 @A1

APPROX CUT: 3800m³
APPROX FILL: 8150m³

LEGEND

 CUT

 FILL

 BH1-BH4

BOREHOLES REFER GEOTECHNICAL
REPORT PREPARED BY
NG GEOTECHNICS
REPORT NO: R23169 . REV0
DATE: 03 SEPTEMBER 2023

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HA	JM	FOR SSDA	07.04.2025	C	
HA	JM	FOR REVIEW	04.04.2025	B	
HL	JM	FOR COMMENT / COSTING	06.06.2024	A	
BY	CHKD	DESCRIPTION	DATE	REV	

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**CATHOLIC SCHOOLS
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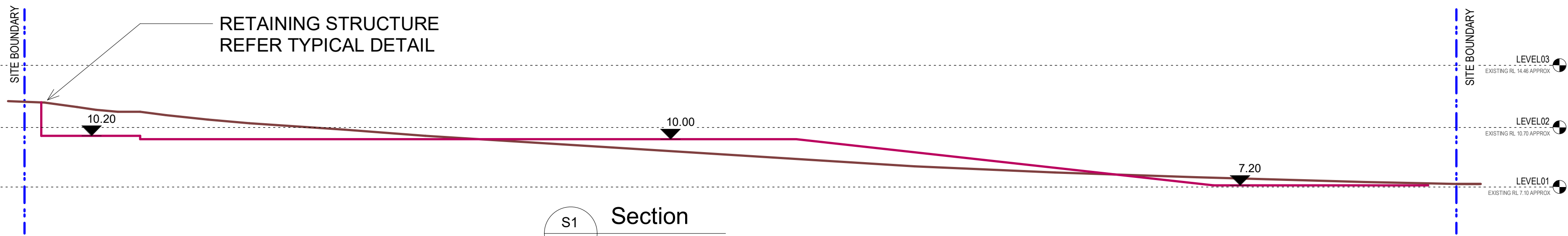
PROJECT
EILEEN O'CONNOR CATHOLIC SCHOOL

EXCAVATION PLAN

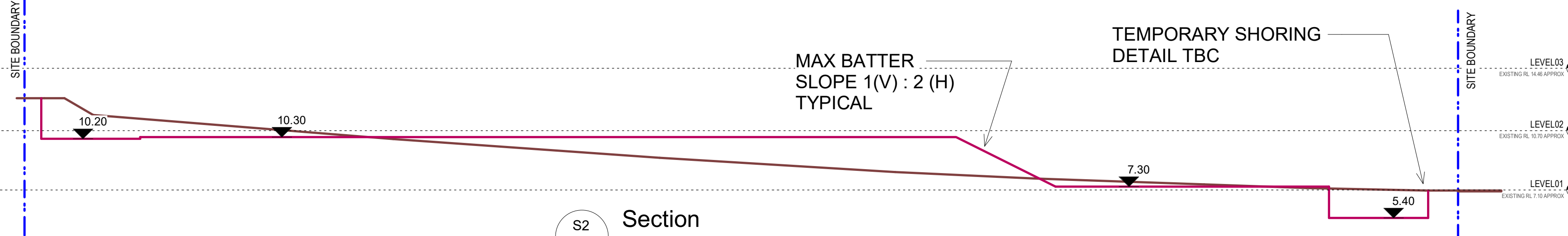
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DESIGN JM	DRAWN HL	PROJECT NO. 6588	
CHKD.		DRAWING NO. SW.10	REV C
APPRD.			
SCALE As indicated DATE			

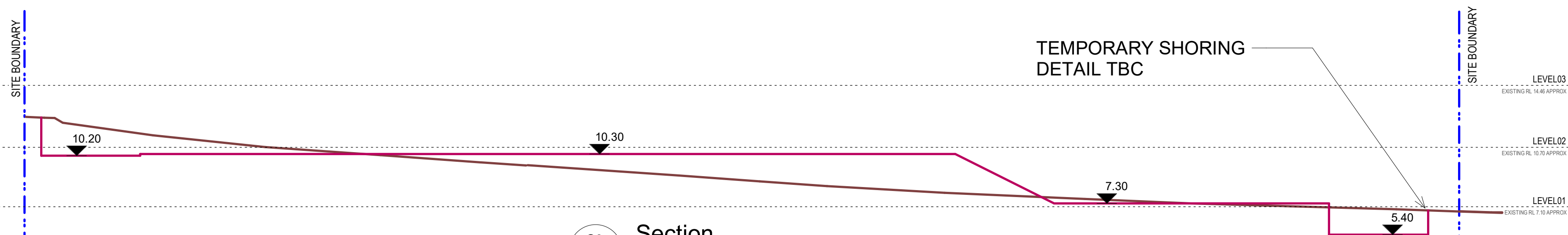




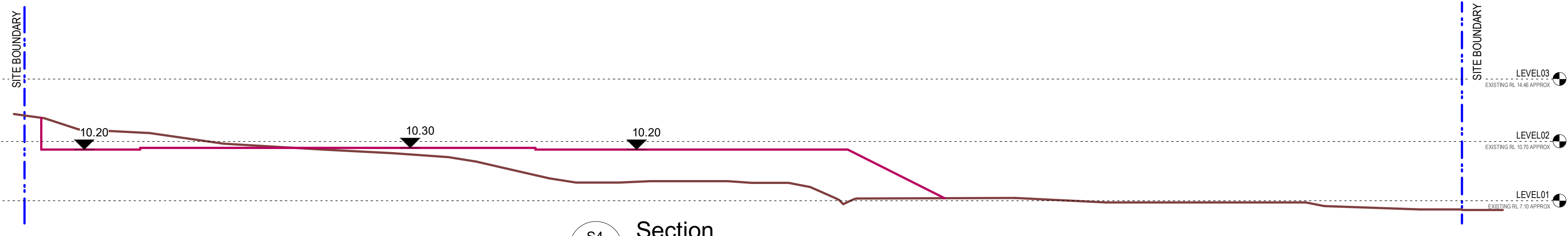
S1 Section
S20 SCALE 1 : 200 @A1



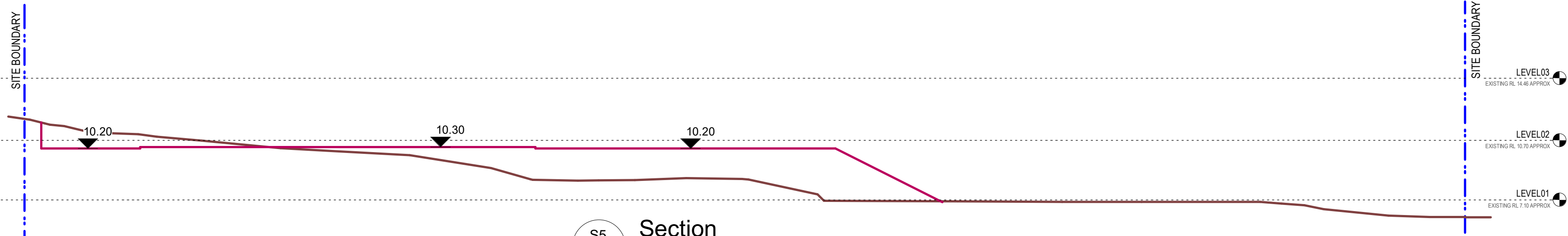
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S20 SCALE 1 : 200 @A1



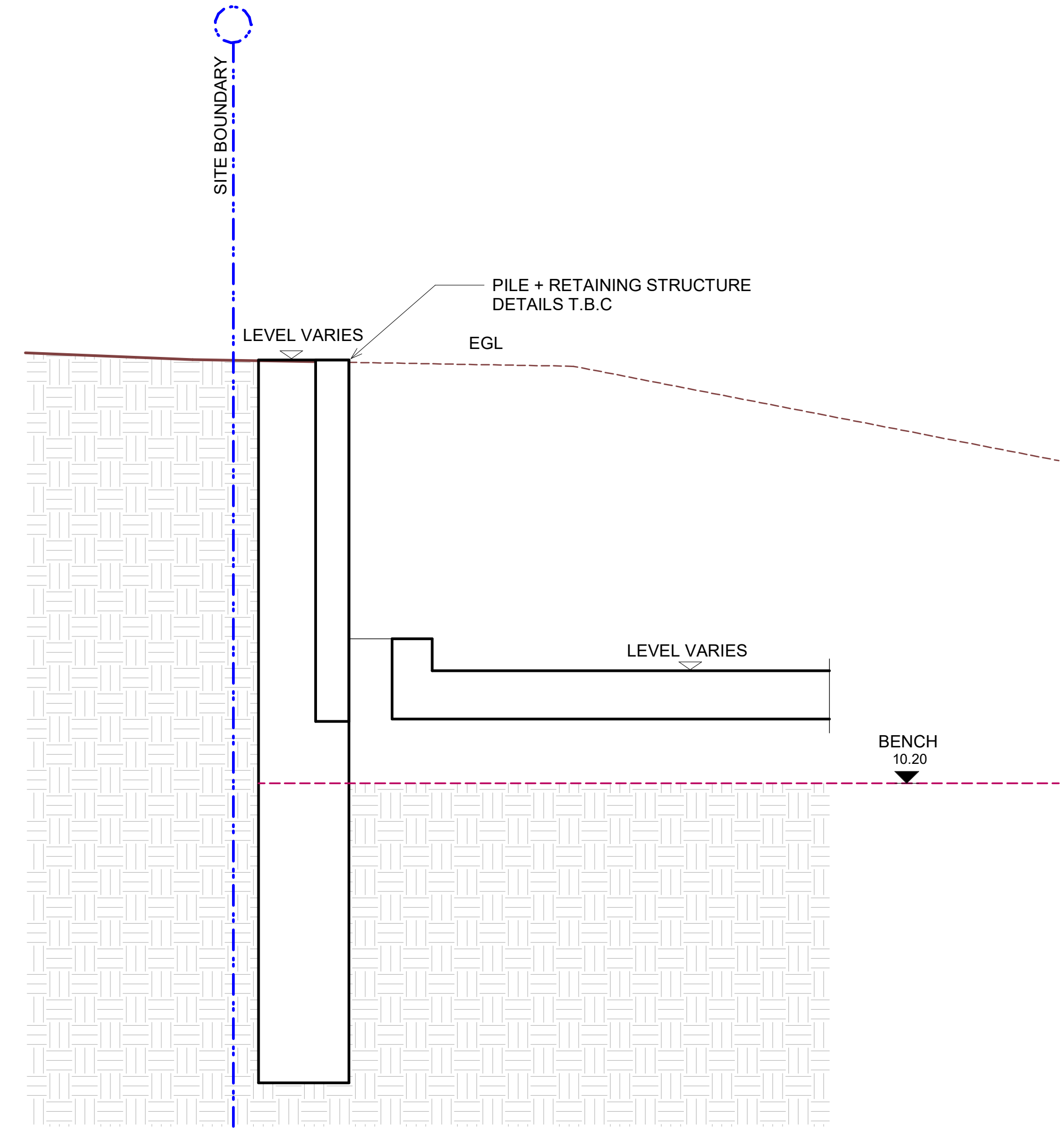
S3 Section
S20 SCALE 1 : 200 @A1



S4 Section
S20 SCALE 1 : 200 @A1



S5 Section
S20 SCALE 1 : 200 @A1



TYPICAL DETAIL - RETAINING WALL SOUTH BOUNDARY
SCALE 1 : 20 @A1

HA	JM	FOR SSDA	07.04.2025	C	
HA	JM	FOR REVIEW	04.04.2025	B	
HL	JM	FOR COMMENT / COSTING	06.06.2024	A	
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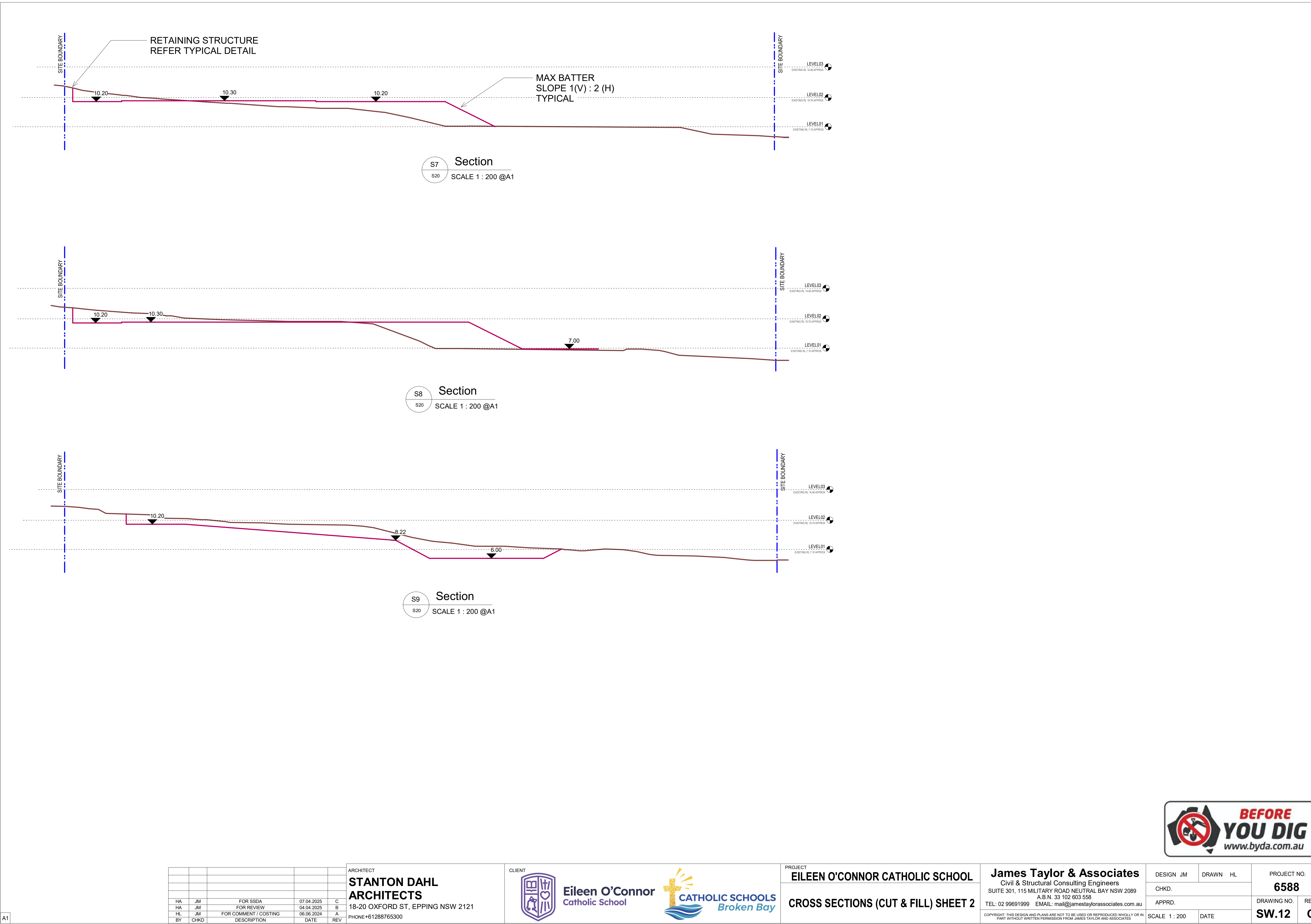
CATHOLIC SCHOOLS
Broken Bay

PROJECT
EILEEN O'CONNOR CATHOLIC SCHOOL
CROSS SECTIONS (CUT & FILL) SHEET 1

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DESIGN JM	DRAWN HL	PROJECT NO. 6588	REV
CHKD.		DRAWING NO. SW.11	C
APPRD.		SCALE As indicated DATE	





HA	JM	FOR SSDA	07.04.2025	C	
HA	JM	FOR REVIEW	04.04.2025	B	
HL	JM	FOR COMMENT / COSTING	06.06.2024	A	
BY	CHKD	DESCRIPTION	DATE	REV	

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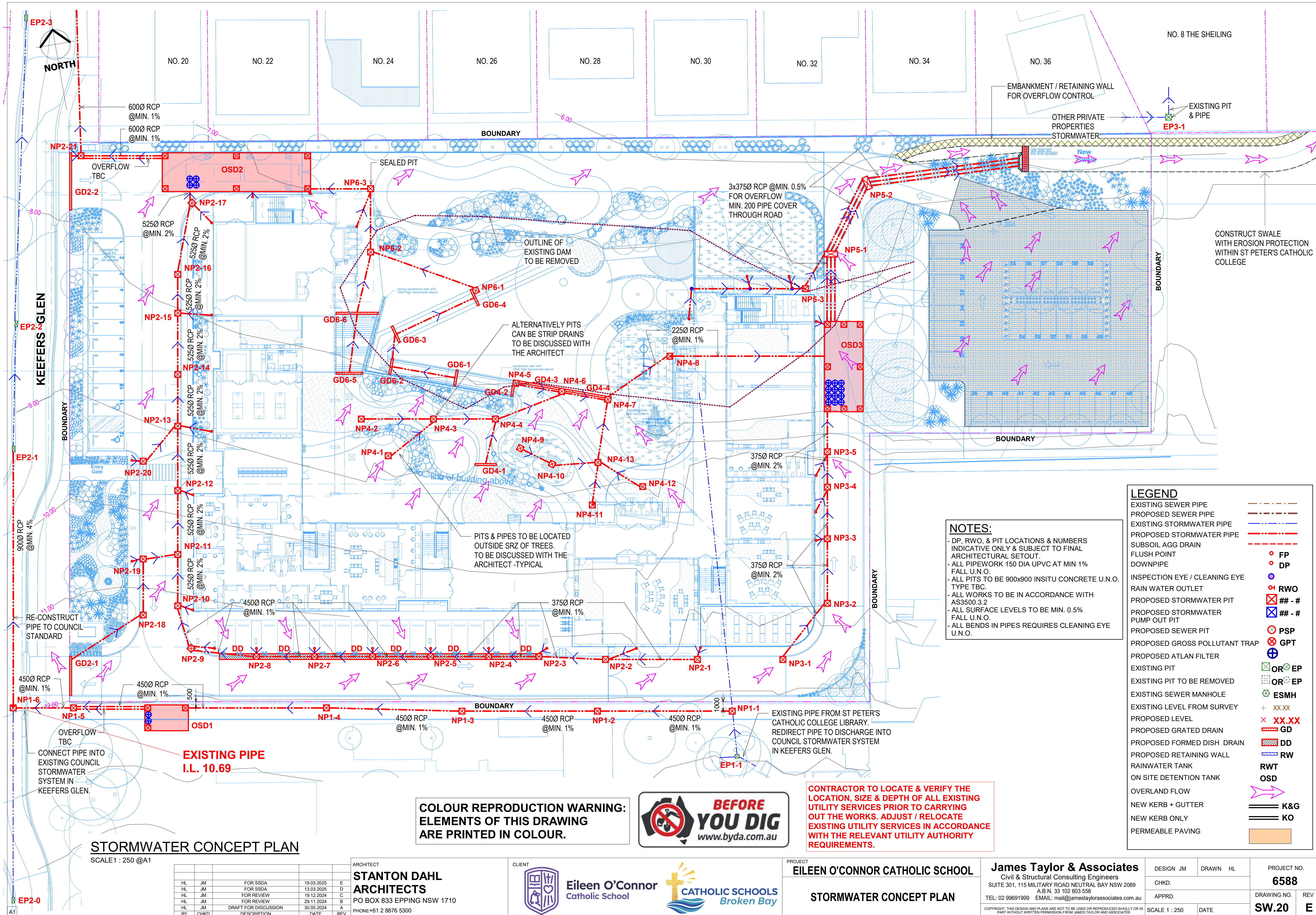
CATHOLIC SCHOOLS
Broken Bay

PROJECT
EILEEN O'CONNOR CATHOLIC SCHOOL

CROSS SECTIONS (CUT & FILL) SHEET 2

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CHKD.		6588	
APPRD.		DRAWING NO.	REV
SCALE 1 : 200	DATE	SW.12	C



NOTES:

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- ALL PIPEWORK 150 DIA UPVC AT MIN 1% FALL U.N.O.
- ALL PITS TO BE 900x900 INSITU CONCRETE U.N.O. TYPE TBC.
- ALL WORKS TO BE IN ACCORDANCE WITH AS3500.3.2
- ALL SURFACE LEVELS TO BE MIN. 0.5% FALL U.N.O.
- ALL BENDS IN PIPES REQUIRES CLEANING EYE U.N.O.

LEGEND	
EXISTING SEWER PIPE	---
PROPOSED SEWER PIPE	---
EXISTING STORMWATER PIPE	---
PROPOSED STORMWATER PIPE	---
SUBSOIL AGG DRAIN	---
FLUSH POINT	○ FP
DOWNPIPE	○ DP
INSPECTION EYE / CLEANING EYE	○
RAIN WATER OUTLET	○ RWO
PROPOSED STORMWATER PIT	■ ## - #
PROPOSED STORMWATER PUMP OUT PIT	■ ## - #
PROPOSED SEWER PIT	⊗ PSP
PROPOSED GROSS POLLUTANT TRAP	⊗ GPT
PROPOSED ATLAN FILTER	⊕
EXISTING PIT	⊗ OR EP
EXISTING PIT TO BE REMOVED	⊗ OR EP
EXISTING SEWER MANHOLE	⊗ ESMH
EXISTING LEVEL FROM SURVEY	+ XX.XX
PROPOSED LEVEL	+ XX.XX
PROPOSED GRATED DRAIN	■ GD
PROPOSED FORMED DISH DRAIN	■ DD
PROPOSED RETAINING WALL	■ RW
RAINWATER TANK	■ RWT
ON SITE DETENTION TANK	■ OSD
OVERLAND FLOW	→
NEW KERB + GUTTER	== K&G
NEW KERB ONLY	== KO
PERMEABLE PAVING	■

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STORMWATER CONCEPT PLAN

SCALE 1 : 250 @A1

HL	JM	FOR SSDA	19.03.2025	E
HL	JM	FOR SSDA	13.03.2025	O
HL	JM	FOR REVIEW	19.12.2024	O
HL	JM	FOR REVIEW	29.11.2024	B
HL	JM	DRAFT FOR DISCUSSION	30.05.2024	A
BY	CHKD	DESCRIPTION	DATE	REV

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PHONE+61 2 8876 5300

CLIENT
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CATHOLIC SCHOOLS Broken Bay

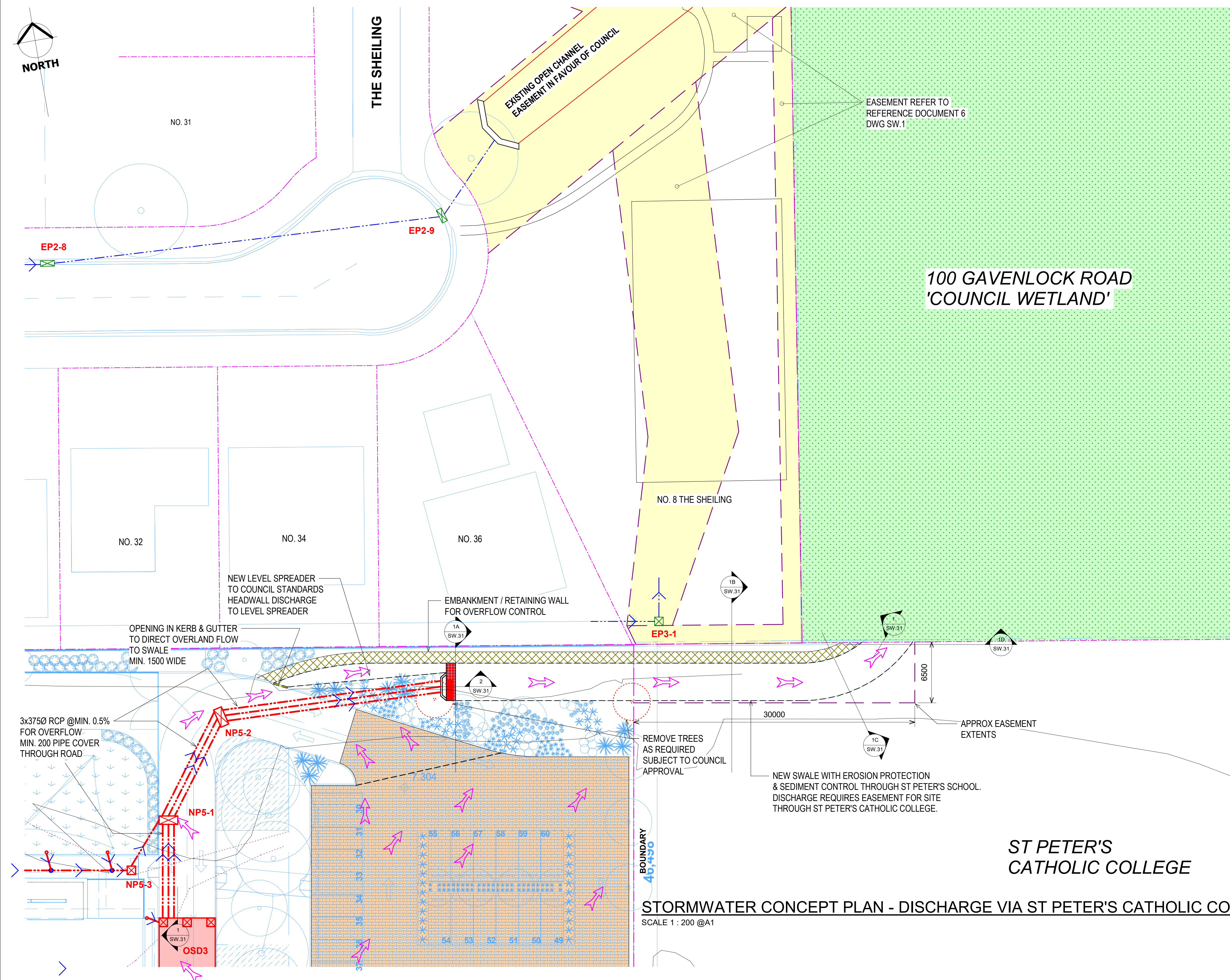
PROJECT
EILEEN O'CONNOR CATHOLIC SCHOOL
STORMWATER CONCEPT PLAN

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DESIGN JM	DRAWN HL
CHKD.	
APPRD.	
SCALE 1 : 250	DATE

PROJECT NO.
6588

DRAWING NO.	REV
SW.20	E



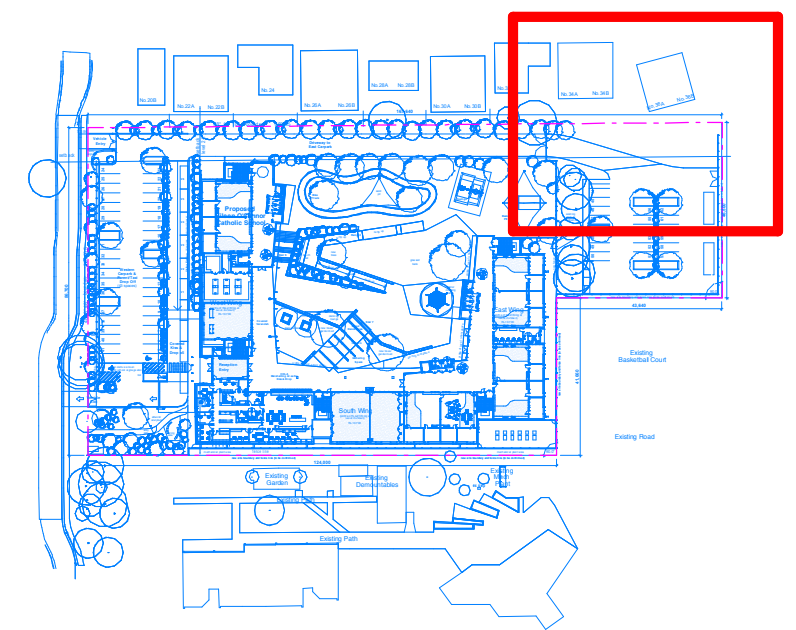
LEGEND

EXISTING SEWER PIPE	---
PROPOSED SEWER PIPE	---
EXISTING STORMWATER PIPE	---
PROPOSED STORMWATER PIPE	---
SUBSOIL AGG DRAIN	---
FLUSH POINT	○ FP
DOWNPIPE	○ DP
INSPECTION EYE / CLEANING EYE	○
RAIN WATER OUTLET	⊗ RWO
PROPOSED STORMWATER PIT	⊗ ## - #
PROPOSED STORMWATER PUMP OUT PIT	⊗ ## - #
PROPOSED SEWER PIT	⊗ PSP
PROPOSED GROSS POLLUTANT TRAP	⊗ GPT
PROPOSED ATLAN FILTER	⊗
EXISTING PIT	⊗ OR EP
EXISTING PIT TO BE REMOVED	⊗ OR EP
EXISTING SEWER MANHOLE	⊗ ESMH
EXISTING LEVEL FROM SURVEY	+ XX.XX
PROPOSED LEVEL	× XX.XX
PROPOSED GRATED DRAIN	⊗ GD
PROPOSED FORMED DISH DRAIN	⊗ DD
PROPOSED RETAINING WALL	⊗ RW
RAINWATER TANK	RWT
ON SITE DETENTION TANK	OSD
OVERLAND FLOW	→
NEW KERB + GUTTER	== K&G
NEW KERB ONLY	== KO
PERMEABLE PAVING	■

NOTES:

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- ALL PIPEWORK 150 DIA UPVC AT MIN 1% FALL U.N.O.
- ALL PITS TO BE 900x900 INSITU CONCRETE U.N.O. TYPE TBC.
- ALL WORKS TO BE IN ACCORDANCE WITH AS3500.3.2
- ALL SURFACE LEVELS TO BE MIN. 0.5% FALL U.N.O.
- ALL BENDS IN PIPES REQUIRES CLEANING EYE U.N.O.

CONTRACTOR TO LOCATE & VERIFY THE LOCATION, SIZE & DEPTH OF ALL EXISTING UTILITY SERVICES PRIOR TO CARRYING OUT THE WORKS. ADJUST / RELOCATE EXISTING UTILITY SERVICES IN ACCORDANCE WITH THE RELEVANT UTILITY AUTHORITY REQUIREMENTS.












KEY PLAN
SCALE 1 : 2000 @A1

STORMWATER CONCEPT PLAN - DISCHARGE VIA ST PETER'S CATHOLIC COLLEGE
SCALE 1 : 200 @A1

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EXISTING GAS PIPE	
EXISTING WATER PIPE	
EXISTING TELSTRA LINE	
EXISTING ELECTRICITY LINE	
EXISTING WATER HYDRANT	
EXISTING WATER METER	
EXISTING TELSTRA PIT	
EXISTING LIGHT POLE	
STOP VALVE	

- DP, RWO, & PIT LOCATIONS & NUMBERS INDICATIVE ONLY & SUBJECT TO FINAL ARCHITECTURAL SETOUT.
- ALL PIPEWORK 150 DIA UPVC AT MIN 1% FALL U.N.O.
- ALL PITS TO BE 900x900 INSITU CONCRETE U.N.O. TYPE TBC.
- ALL WORKS TO BE IN ACCORDANCE WITH AS3500.3.2
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- ALL BENDS IN PIPES REQUIRES CLEANING EYE U.N.O.

CONTRACTOR TO LOCATE & VERIFY THE LOCATION, SIZE & DEPTH OF ALL EXISTING UTILITY SERVICES PRIOR TO CARRYING OUT THE WORKS. ADJUST / RELOCATE EXISTING UTILITY SERVICES IN ACCORDANCE WITH THE RELEVANT UTILITY AUTHORITY REQUIREMENTS.

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						STANTON DAHL
						ARCHITECTS
HL	JM	FOR SSDA	13.03.2025	D		
HL	JM	FOR REVIEW	19.12.2024	C		
HL	JM	FOR REVIEW	29.11.2024	B		
HL	JM	DRAFT FOR DISCUSSION	30.05.2024	A		
RY	CHKD	DESCRIPTION	DATE	REV		PHONE+61 2 8876 5300

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Catholic School



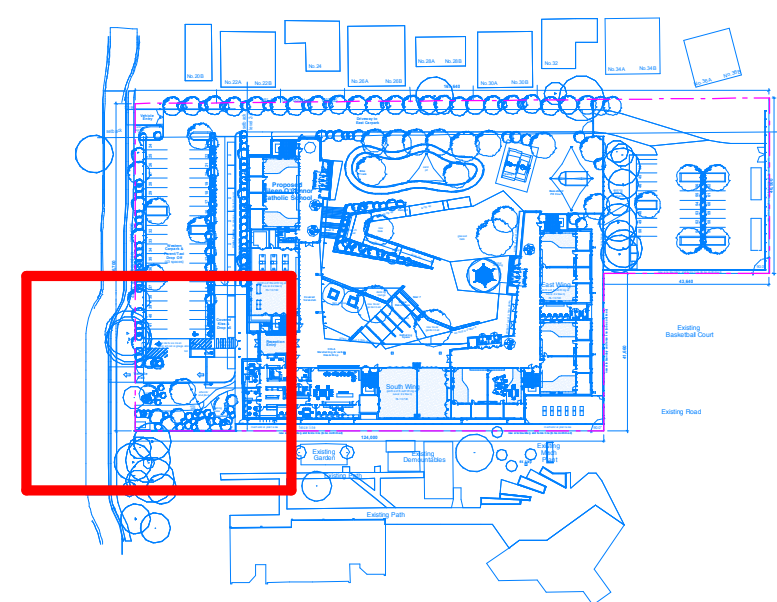
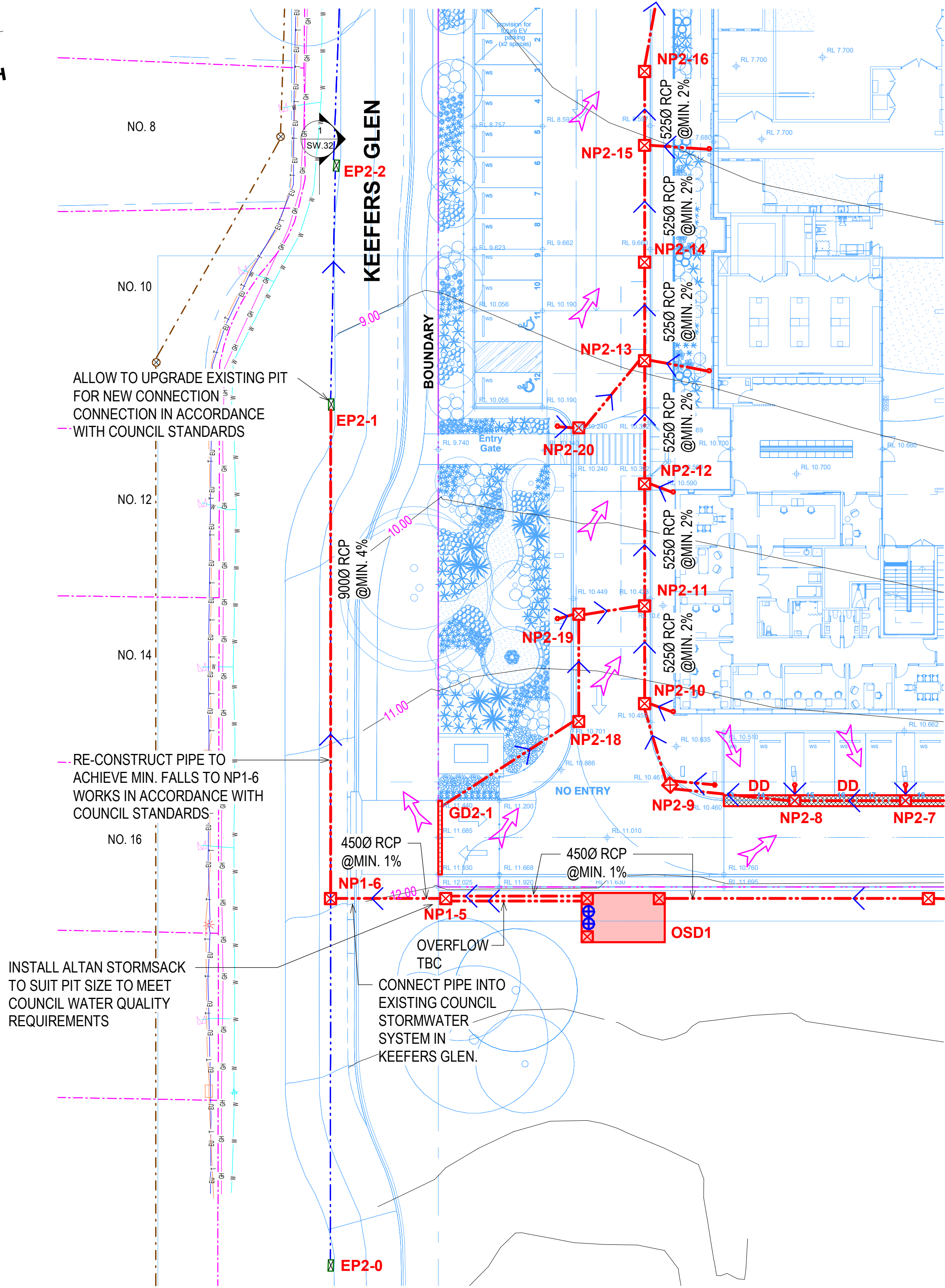
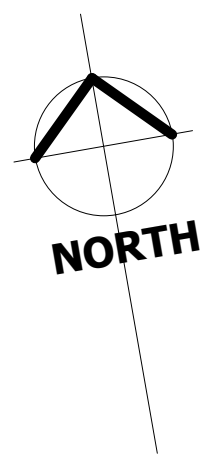
CATHOLIC SCHOOLS
Broken Bay

PROJECT
EILEEN O'CONNOR CATHOLIC SCHOOL
STORMWATER CONCEPT PLAN -
DISCHARGE VIA KEEFERS GLEN FOR
EILEEN O'CONNOR SITE

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DESIGN	JM	DRAWN	HL	PROJECT NO.	
CHKD.				6588	
APPRD.				DRAWING NO.	REV
SCALE As indicated				SW.22	D
DATE					



KEY PLAN
SCALE 1 : 2000 @A1

LEGEND	
EXISTING SEWER PIPE	
PROPOSED SEWER PIPE	
EXISTING STORMWATER PIPE	
PROPOSED STORMWATER PIPE	
SUBSOIL AGG DRAIN	
FLUSH POINT	
DOWNPIPE	
INSPECTION EYE / CLEANING EYE	
RAIN WATER OUTLET	
PROPOSED STORMWATER PIT	
PROPOSED STORMWATER PUMP OUT PIT	
PROPOSED SEWER PIT	
PROPOSED GROSS POLLUTANT TRAP	
PROPOSED ATLAN FILTER	
EXISTING PIT	
EXISTING PIT TO BE REMOVED	
EXISTING SEWER MANHOLE	
EXISTING LEVEL FROM SURVEY	
PROPOSED LEVEL	
PROPOSED GRATED DRAIN	
PROPOSED FORMED DISH DRAIN	
PROPOSED RETAINING WALL	
RAINWATER TANK	
ON SITE DETENTION TANK	
OVERLAND FLOW	
NEW KERB + GUTTER	
NEW KERB ONLY	
PERMEABLE PAVING	

EXISTING GAS PIPE	
EXISTING WATER PIPE	
EXISTING TELSTRA LINE	
EXISTING ELECTRICITY LINE	
EXISTING WATER HYDRANT	
EXISTING WATER METER	
EXISTING TELSTRA PIT	
EXISTING LIGHT POLE	
STOP VALVE	

NOTES:

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- ALL PITS TO BE 900x900 INSITU CONCRETE U.N.O. TYPE TBC.
- ALL WORKS TO BE IN ACCORDANCE WITH AS3500.3.2
- ALL SURFACE LEVELS TO BE MIN. 0.5% FALL U.N.O.
- ALL BENDS IN PIPES REQUIRES CLEANING EYE U.N.O.

CONTRACTOR TO LOCATE & VERIFY THE LOCATION, SIZE & DEPTH OF ALL EXISTING UTILITY SERVICES PRIOR TO CARRYING OUT THE WORKS. ADJUST / RELOCATE EXISTING UTILITY SERVICES IN ACCORDANCE WITH THE RELEVANT UTILITY AUTHORITY REQUIREMENTS.

STORMWATER CONCEPT PLAN - DISCHARGE VIA KEEFERS GLEN FOR ST PETER'S CATHOLIC COLLEGE
SCALE1 : 250 @A1

COLOUR REPRODUCTION WARNING:
ELEMENTS OF THIS DRAWING
ARE PRINTED IN COLOUR.



HL	JM	FOR SSDA	19.03.2025	E	
HL	JM	FOR SSDA	13.03.2025	D	
HL	JM	FOR REVIEW	19.12.2024	C	
HL	JM	FOR REVIEW	29.11.2024	B	
HL	JM	DRAFT FOR DISCUSSION	30.05.2024	A	
BY	CHKD	DESCRIPTION	DATE	REV	

ARCHITECT
STANTON DAHL ARCHITECTS
PO BOX 833 EPPING NSW 1710
PHONE+61 2 8876 5300

CLIENT

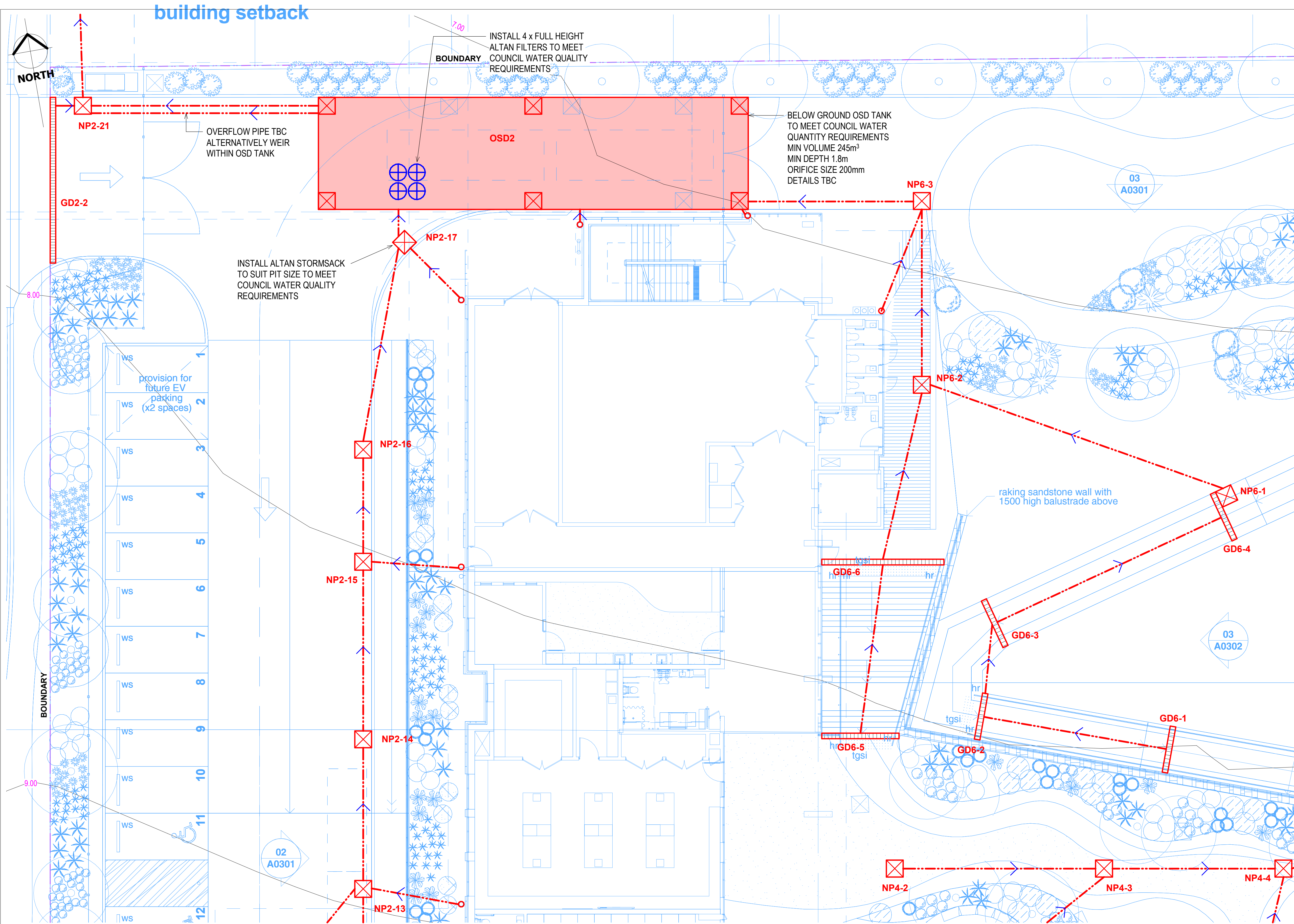
Eileen O'Connor
Catholic School

CATHOLIC SCHOOLS
Broken Bay

PROJECT
EILEEN O'CONNOR CATHOLIC SCHOOL
STORMWATER CONCEPT PLAN - DISCHARGE VIA KEEFERS GLEN FOR ST PETER'S CATHOLIC COLLEGE

James Taylor & Associates
Civil & Structural Consulting Engineers
SUITE 301, 115 MILITARY ROAD NEUTRAL BAY NSW 2089
A.B.N. 33 102 603 558
TEL: 02 99691999 EMAIL: mail@jamestaylorassociates.com.au

DESIGN JM	DRAWN HL	PROJECT NO.
CHKD.		6588
APPRD.		DRAWING NO.
SCALE As indicated DATE		SW.23
		REV
		E



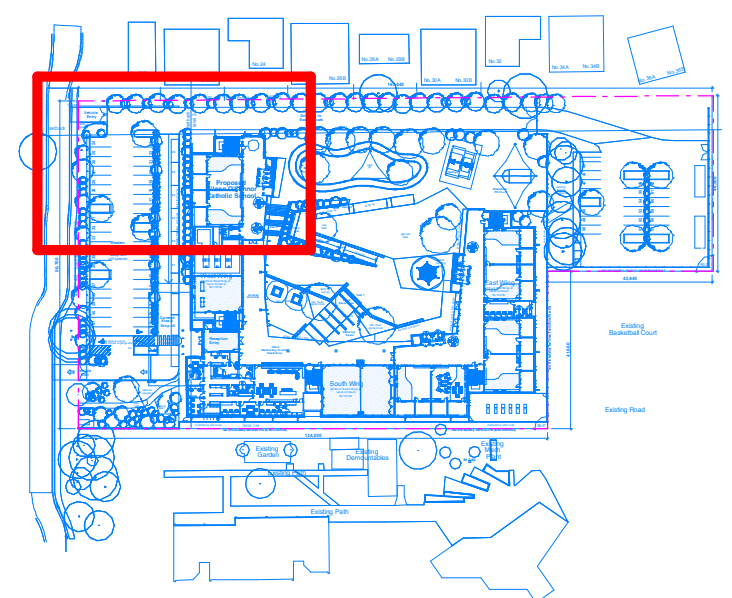
LEGEND

EXISTING SEWER PIPE	---
PROPOSED SEWER PIPE	---
EXISTING STORMWATER PIPE	---
PROPOSED STORMWATER PIPE	---
SUBSOIL AGG DRAIN	---
FLUSH POINT	○ FP
DOWNSPIPE	○ DP
INSPECTION EYE / CLEANING EYE	○
RAIN WATER OUTLET	○ RWO
PROPOSED STORMWATER PIT	⊠ ## - #
PROPOSED STORMWATER PUMP OUT PIT	⊠ ## - #
PROPOSED SEWER PIT	⊗ PSP
PROPOSED GROSS POLLUTANT TRAP	⊗ GPT
PROPOSED ALTAN FILTER	⊕
EXISTING PIT	⊠ OR EP
EXISTING PIT TO BE REMOVED	⊠ OR EP
EXISTING SEWER MANHOLE	⊕ ESMH
EXISTING LEVEL FROM SURVEY	+ XX.XX
PROPOSED LEVEL	× XX.XX
PROPOSED GRATED DRAIN	▬ GD
PROPOSED FORMED DISH DRAIN	▬ DD
PROPOSED RETAINING WALL	▬ RW
RAINWATER TANK	RWT
ON SITE DETENTION TANK	OSD
OVERLAND FLOW	→
NEW KERB + GUTTER	▬ K&G
NEW KERB ONLY	▬ KO
PERMEABLE PAVING	■

NOTES:

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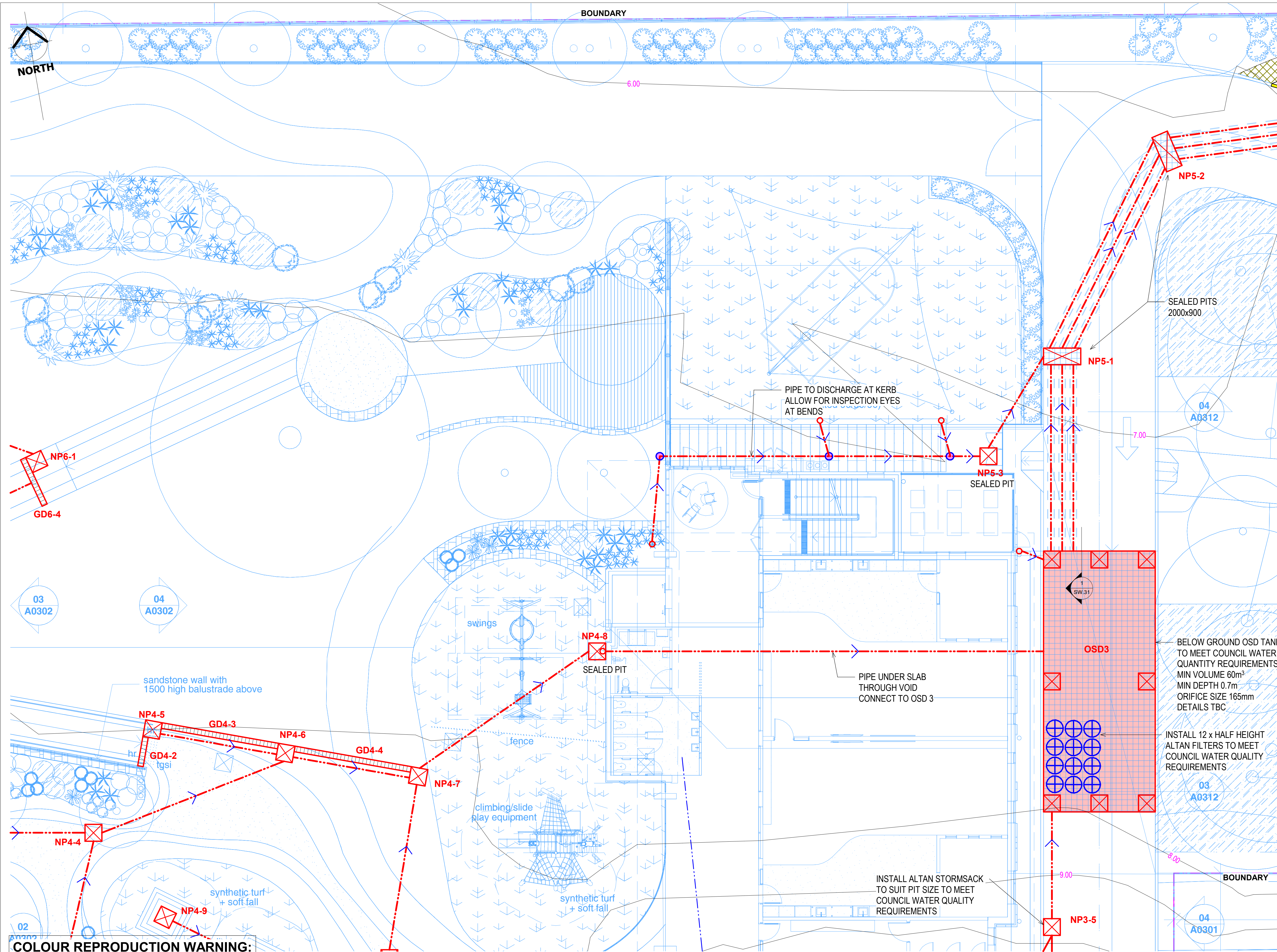


KEY PLAN
SCALE 1 : 2000 @A1

COLOUR REPRODUCTION WARNING:
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STORMWATER CONCEPT PLAN - SHEET 1
SCALE 1 : 100 @A1 1:200 @A3

	ARCHITECT STANTON DAHL ARCHITECTS PO BOX 833 EPPING NSW 1710 PHONE+61 2 8876 5300					CLIENT Eileen O'Connor Catholic School		PROJECT EILEEN O'CONNOR CATHOLIC SCHOOL STORMWATER CONCEPT PLAN - SHEET 1	James Taylor & Associates Civil & Structural Consulting Engineers SUITE 301, 115 MILITARY ROAD NEUTRAL BAY NSW 2089 A.B.N. 33 102 603 558 TEL: 02 99691999 EMAIL: mail@jamestaylorassociates.com.au	DESIGN JM	DRAWN HL	PROJECT NO. 6588	DRAWING NO. SW.24	REV C
	HL JM FOR SDA 13.03.2025 C	CHKD.	APPRD.											
	HL JM FOR REVIEW 19.12.2024 B	SCALE As indicated DATE												
	HL JM FOR REVIEW 29.11.2024 A													
BY CHKD DESCRIPTION DATE REV														



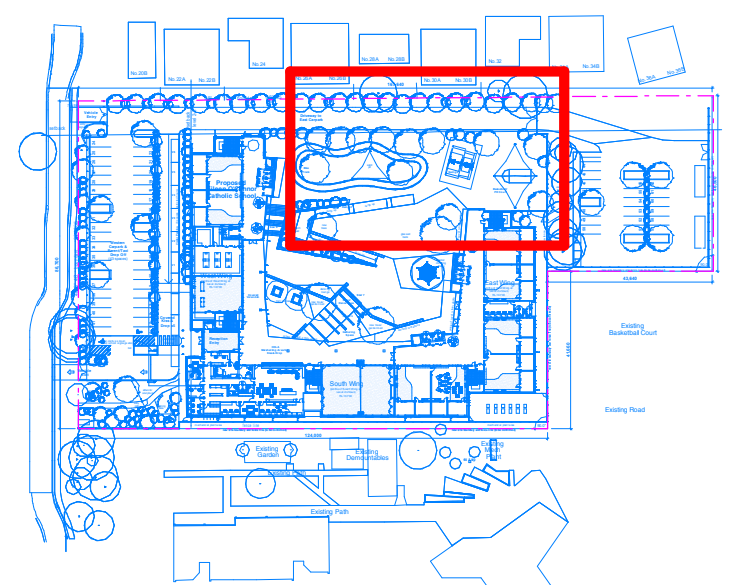
LEGEND
EXISTING SEWER PIPE
PROPOSED SEWER PIPE
EXISTING STORMWATER PIPE
PROPOSED STORMWATER PIPE
SUBSOIL AGG DRAIN
FLUSH POINT
DOWNPIPE
INSPECTION EYE / CLEANING EYE
RAIN WATER OUTLET
PROPOSED STORMWATER PIT
PROPOSED STORMWATER PUMP OUT PIT
PROPOSED SEWER PIT
PROPOSED GROSS POLLUTANT TRAP
PROPOSED ATLAN FILTER
EXISTING PIT
EXISTING PIT TO BE REMOVED
EXISTING SEWER MANHOLE
EXISTING LEVEL FROM SURVEY
PROPOSED LEVEL
PROPOSED GRATED DRAIN
PROPOSED FORMED DISH DRAIN
PROPOSED RETAINING WALL
RAINWATER TANK
ON SITE DETENTION TANK
OVERLAND FLOW
NEW KERB + GUTTER
NEW KERB ONLY
PERMEABLE PAVING

FP
DP
RWO
- #
- #
PSP
GPT
OR EP
OR EP
ESMH
XX.XX
XX.XX
GD
DD
RW
RWT
OSD
K&G
KO

NOTES:

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KEY PLAN
SCALE 1 : 2000 @A1

COLOUR REPRODUCTION WARNING:
ELEMENTS OF THIS DRAWING
ARE PRINTED IN COLOUR.

STORMWATER CONCEPT PLAN - SHEET 2
SCALE 1 : 100 @A1 1:200 @A3

BEFORE YOU DIG
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HL	JM	FOR SSDA	13.03.2025	C
HL	JM	FOR REVIEW	19.12.2024	B
HL	JM	FOR REVIEW	29.11.2024	A
BY	CHKD	DESCRIPTION	DATE	REV

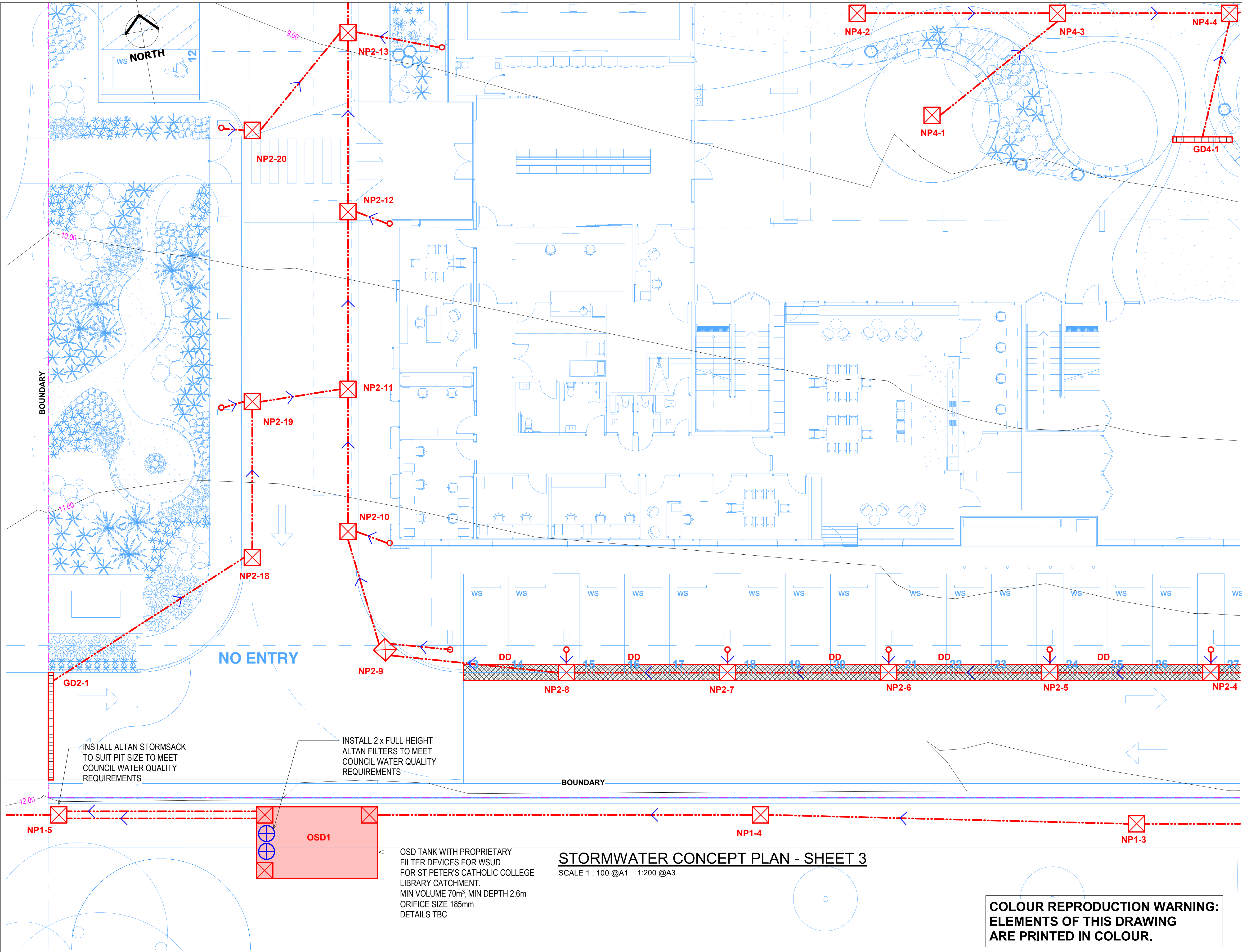
ARCHITECT
STANTON DAHL ARCHITECTS
PO BOX 833 EPPING NSW 1710
PHONE+61 2 8876 5300

CLIENT
Eileen O'Connor Catholic School

PROJECT
EILEEN O'CONNOR CATHOLIC SCHOOL
STORMWATER CONCEPT PLAN - SHEET 2

James Taylor & Associates
Civil & Structural Consulting Engineers
SUITE 301, 115 MILITARY ROAD NEUTRAL BAY NSW 2089
A.B.N. 33 102 603 558
TEL: 02 99691999 EMAIL: mail@jamestaylorassociates.com.au

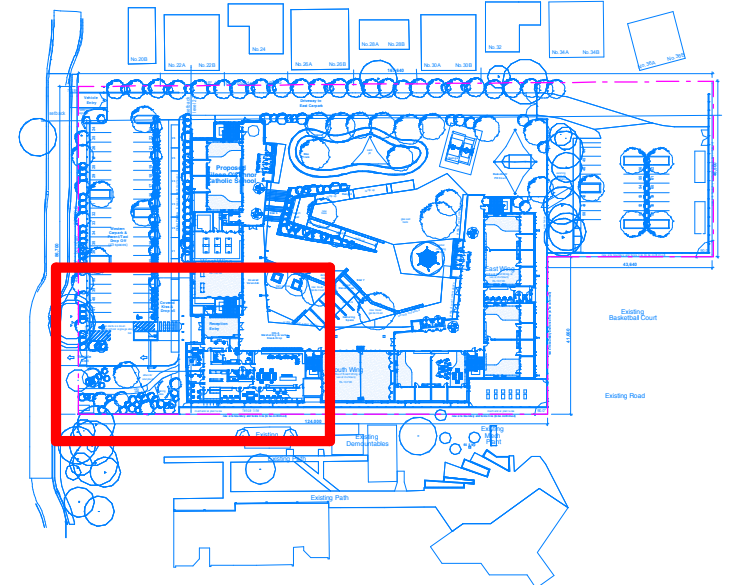
DESIGN	JM	DRAWN	HL	PROJECT NO.	6588
CHKD.				DRAWING NO.	SW.25
APPRD.				REV	C
SCALE As indicated DATE					



LEGEND
EXISTING SEWER PIPE
PROPOSED SEWER PIPE
EXISTING STORMWATER PIPE
PROPOSED STORMWATER PIPE
SUBSOIL AGG DRAIN
FLUSH POINT
DOWNPIPE
INSPECTION EYE / CLEANING EYE
RAIN WATER OUTLET
PROPOSED STORMWATER PIT
PROPOSED STORMWATER PUMP OUT PIT
PROPOSED SEWER PIT
PROPOSED GROSS POLLUTANT TRAP
PROPOSED ATLAN FILTER
EXISTING PIT
EXISTING PIT TO BE REMOVED
EXISTING SEWER MANHOLE
EXISTING LEVEL FROM SURVEY
PROPOSED LEVEL
PROPOSED GRATED DRAIN
PROPOSED FORMED DISH DRAIN
PROPOSED RETAINING WALL
RAINWATER TANK
ON SITE DETENTION TANK
OVERLAND FLOW
NEW KERB + GUTTER
NEW KERB ONLY
PERMEABLE PAVING

NOTES:
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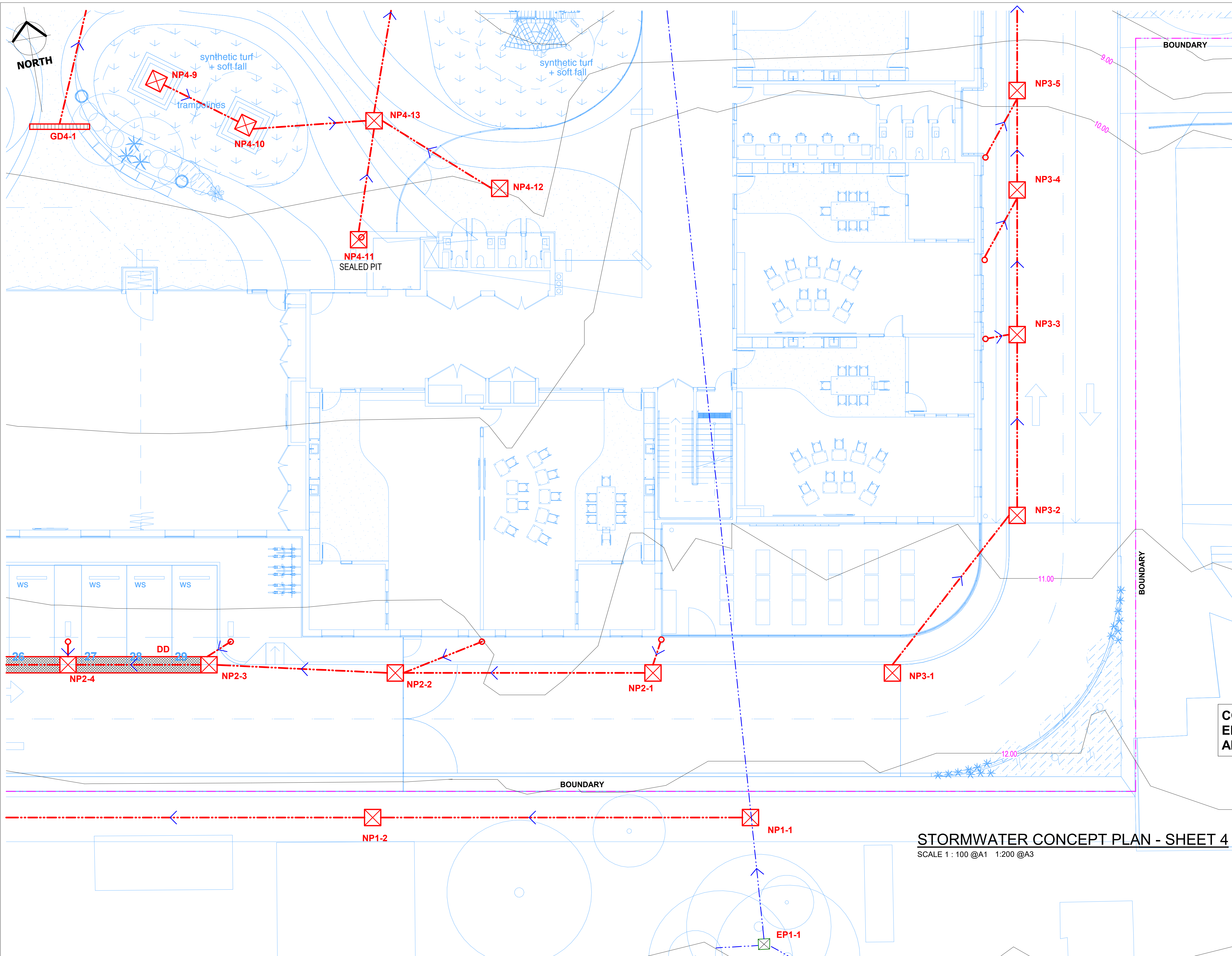
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KEY PLAN
SCALE 1 : 2000 @A1

STORMWATER CONCEPT PLAN - SHEET 3
SCALE 1 : 100 @A1 1:200 @A3

COLOUR REPRODUCTION WARNING:
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LEGEND
EXISTING SEWER PIPE
PROPOSED SEWER PIPE
EXISTING STORMWATER PIPE
PROPOSED STORMWATER PIPE
SUBSOIL AGG DRAIN
FLUSH POINT
DOWNPIPE
INSPECTION EYE / CLEANING EYE
RAIN WATER OUTLET
PROPOSED STORMWATER PIT
PROPOSED STORMWATER PUMP OUT PIT
PROPOSED SEWER PIT
PROPOSED GROSS POLLUTANT TRAP
PROPOSED ATLAN FILTER
EXISTING PIT
EXISTING PIT TO BE REMOVED
EXISTING SEWER MANHOLE
EXISTING LEVEL FROM SURVEY
PROPOSED LEVEL
PROPOSED GRATED DRAIN
PROPOSED FORMED DISH DRAIN
PROPOSED RETAINING WALL
RAINWATER TANK
ON SITE DETENTION TANK
OVERLAND FLOW
NEW KERB + GUTTER
NEW KERB ONLY
PERMEABLE PAVING

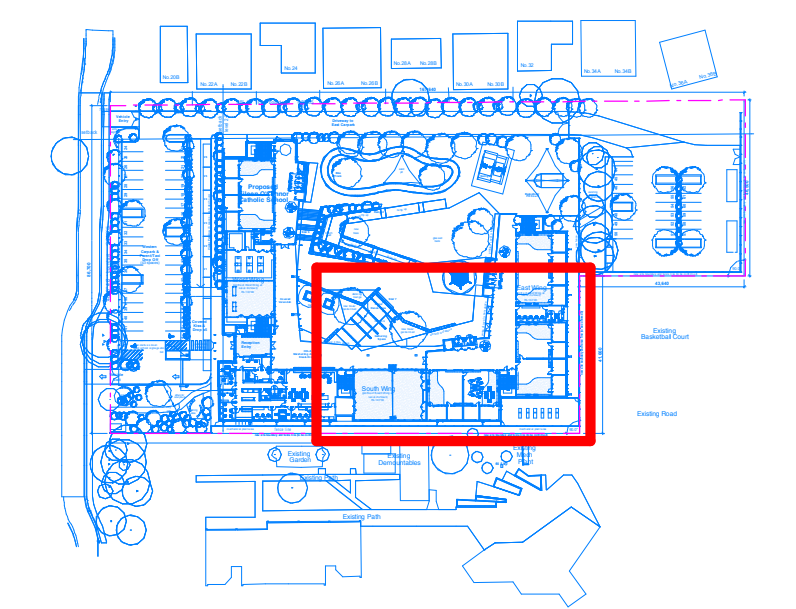
NOTES:

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- ALL BENDS IN PIPES REQUIRES CLEANING EYE U.N.O.

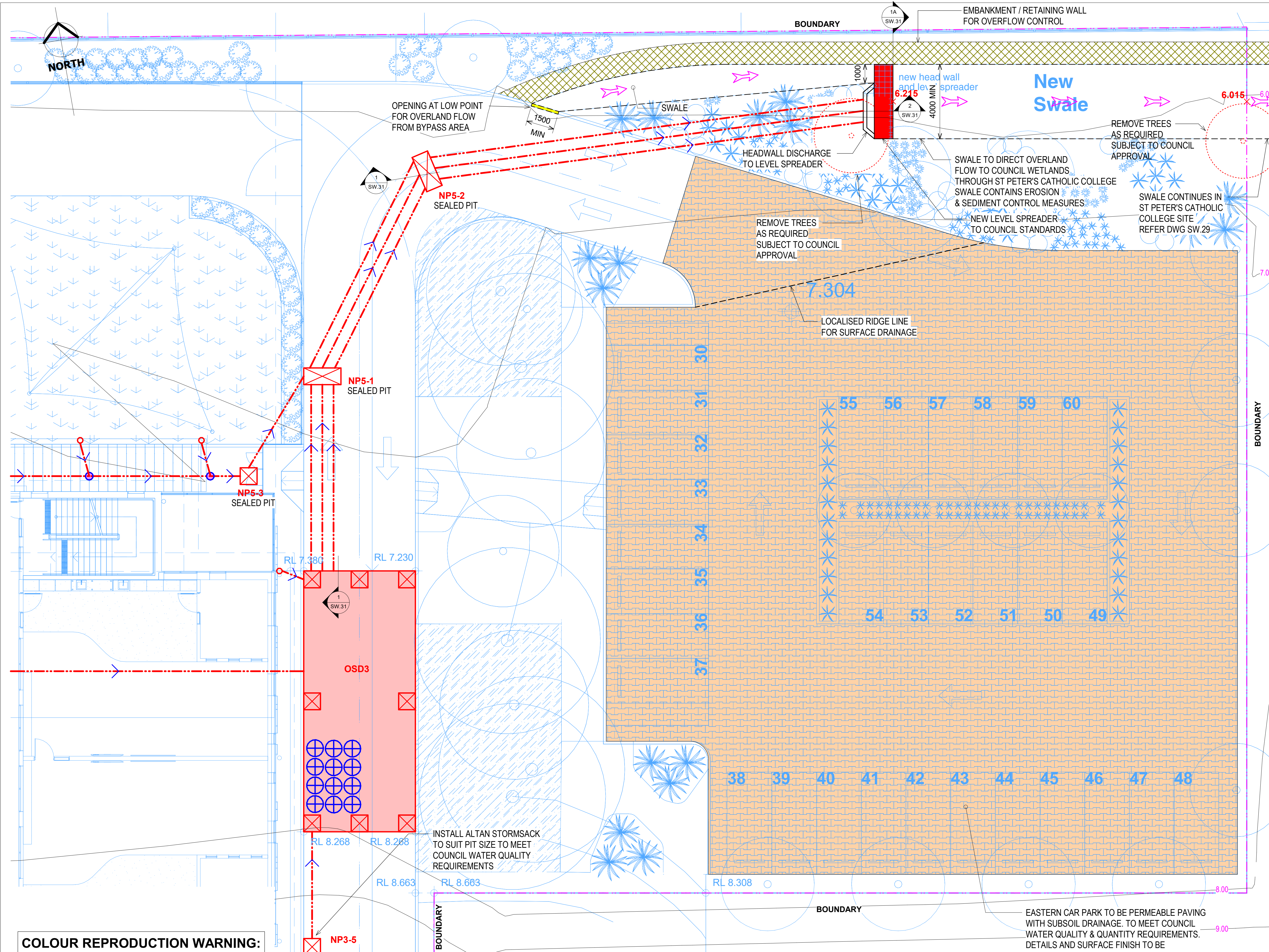
CONTRACTOR TO LOCATE & VERIFY THE LOCATION, SIZE & DEPTH OF ALL EXISTING UTILITY SERVICES PRIOR TO CARRYING OUT THE WORKS. ADJUST / RELOCATE EXISTING UTILITY SERVICES IN ACCORDANCE WITH THE RELEVANT UTILITY AUTHORITY REQUIREMENTS.

**COLOUR REPRODUCTION WARNING:
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ARE PRINTED IN COLOUR.**

STORMWATER CONCEPT PLAN - SHEET 4
SCALE 1 : 100 @A1 1:200 @A3



KEY PLAN
SCALE 1 : 2000 @A1



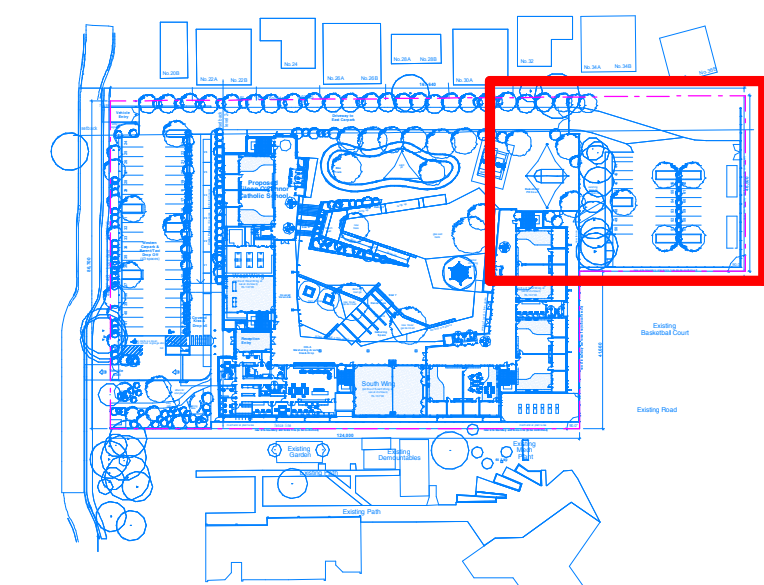
LEGEND
EXISTING SEWER PIPE
PROPOSED SEWER PIPE
EXISTING STORMWATER PIPE
PROPOSED STORMWATER PIPE
SUBSOIL AGG DRAIN
FLUSH POINT
DOWNPIPE
INSPECTION EYE / CLEANING EYE
RAIN WATER OUTLET
PROPOSED STORMWATER PIT
PROPOSED STORMWATER PUMP OUT PIT
PROPOSED SEWER PIT
PROPOSED GROSS POLLUTANT TRAP
PROPOSED ATLAN FILTER
EXISTING PIT
EXISTING PIT TO BE REMOVED
EXISTING SEWER MANHOLE
EXISTING LEVEL FROM SURVEY
PROPOSED LEVEL
PROPOSED GRATED DRAIN
PROPOSED FORMED DISH DRAIN
PROPOSED RETAINING WALL
RAINWATER TANK
ON SITE DETENTION TANK
OVERLAND FLOW
NEW KERB + GUTTER
NEW KERB ONLY
PERMEABLE PAVING

FP
DP
RWO
- #
- #
PSP
GPT
OR EP
OR EP
ESMH
XX.XX
XX.XX
GD
DD
RW
RWT
OSD
K&G
KO

NOTES:

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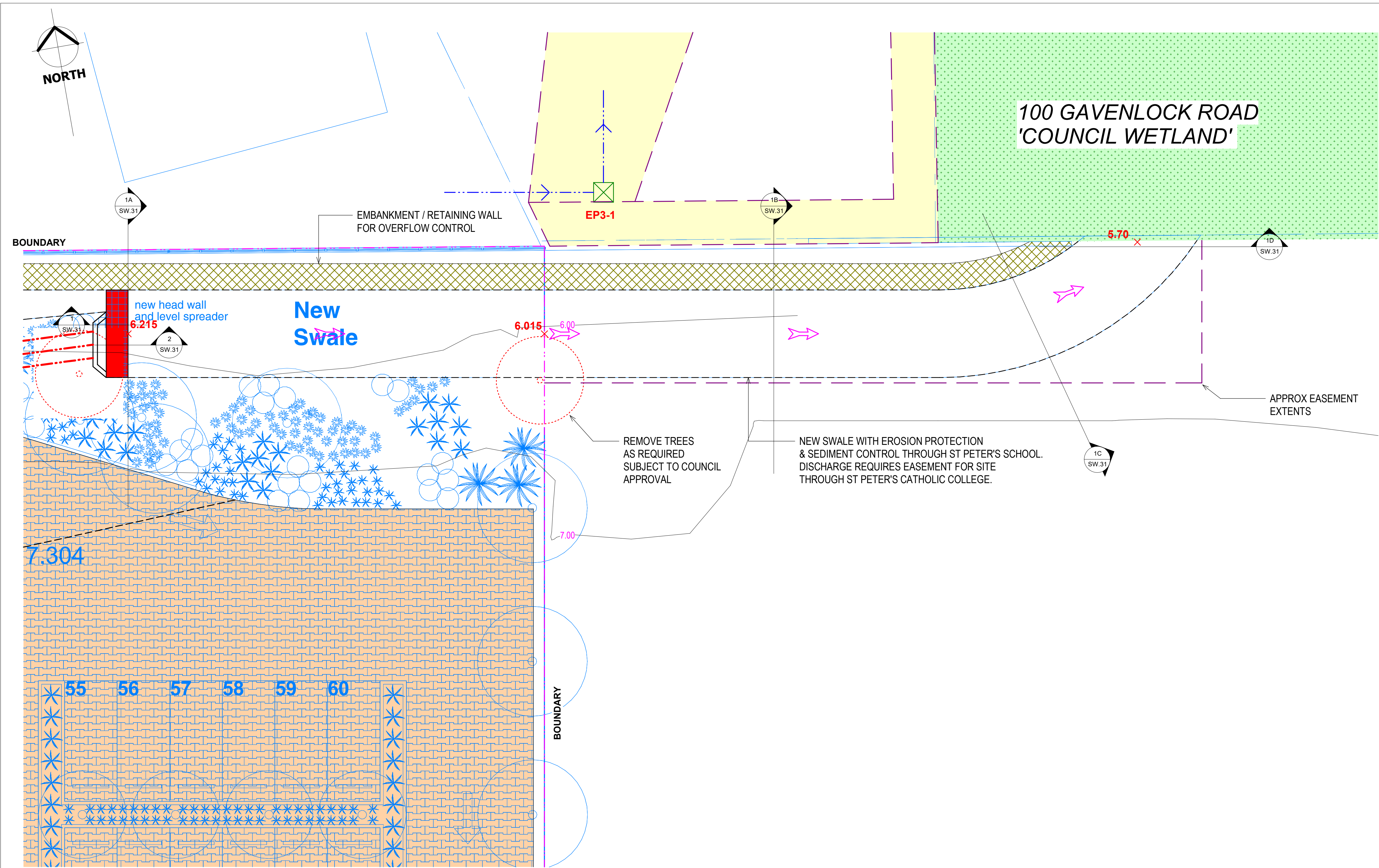
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KEY PLAN
SCALE 1 : 2000 @A1

COLOUR REPRODUCTION WARNING:
ELEMENTS OF THIS DRAWING
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STORMWATER CONCEPT PLAN - SHEET 5
SCALE 1 : 100 @A1 1:200 @A3



LEGEND

EXISTING SEWER PIPE

PROPOSED SEWER PIPE

EXISTING STORMWATER PIPE

PROPOSED STORMWATER PIPE

SUBSOIL AGG DRAIN

FLUSH POINT

DOWNPIPE

INSPECTION EYE / CLEANING EYE

RAIN WATER OUTLET

PROPOSED STORMWATER PIT

PROPOSED STORMWATER PUMP OUT PIT

PROPOSED SEWER PIT

PROPOSED GROSS POLLUTANT TRAP

PROPOSED ATLAN FILTER

EXISTING PIT

EXISTING PIT TO BE REMOVED

EXISTING SEWER MANHOLE

EXISTING LEVEL FROM SURVEY

PROPOSED LEVEL

PROPOSED GRATED DRAIN

PROPOSED FORMED DISH DRAIN

PROPOSED RETAINING WALL

RAINWATER TANK

ON SITE DETENTION TANK

OVERLAND FLOW

NEW KERB + GUTTER

NEW KERB ONLY

PERMEABLE PAVING

○ FP

○ DP

○

⊗ RWO

⊗ ## - #

⊗ ## - #

⊗ PSP

⊗ GPT

⊕

⊗ EP

⊗ OR EP

⊗ ESMH

+ XX.XX

× XX.XX

GD

DD

RW

RWT

OSD

K&G

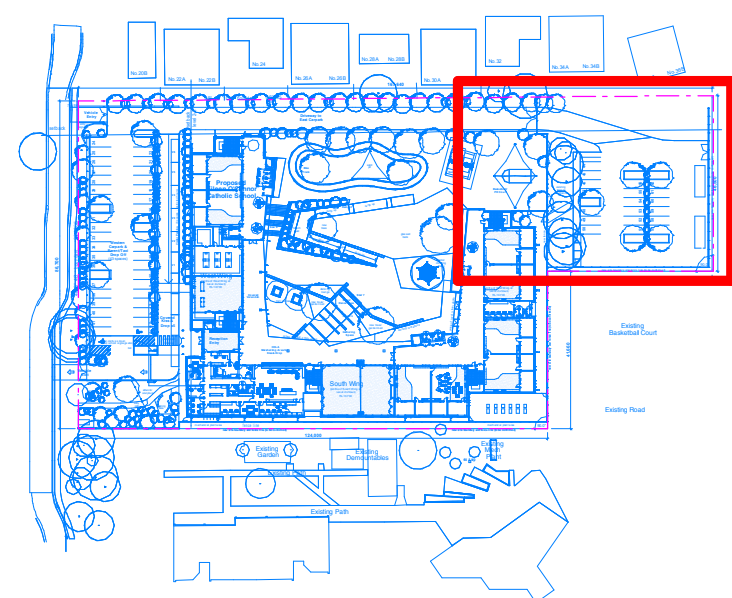
KO

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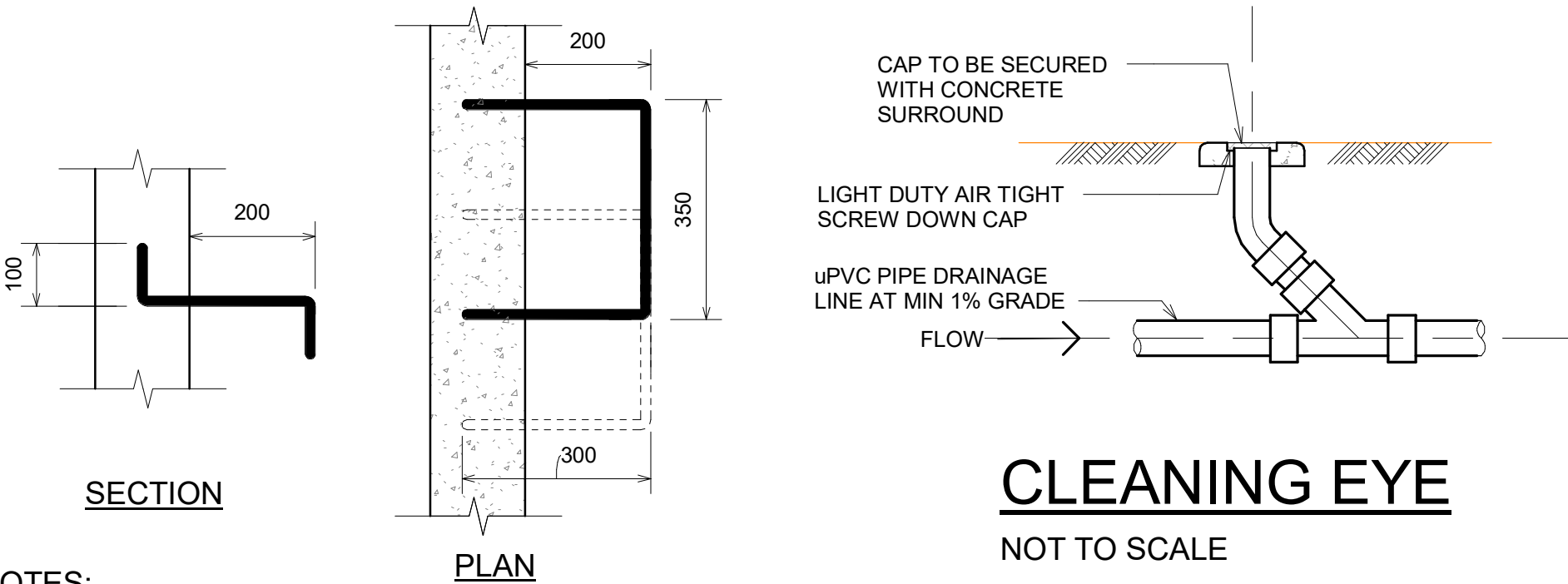
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STORMWATER CONCEPT PLAN - SHEET 6
SCALE 1 : 100 @A1



KEY PLAN
SCALE 1 : 2000 @A1

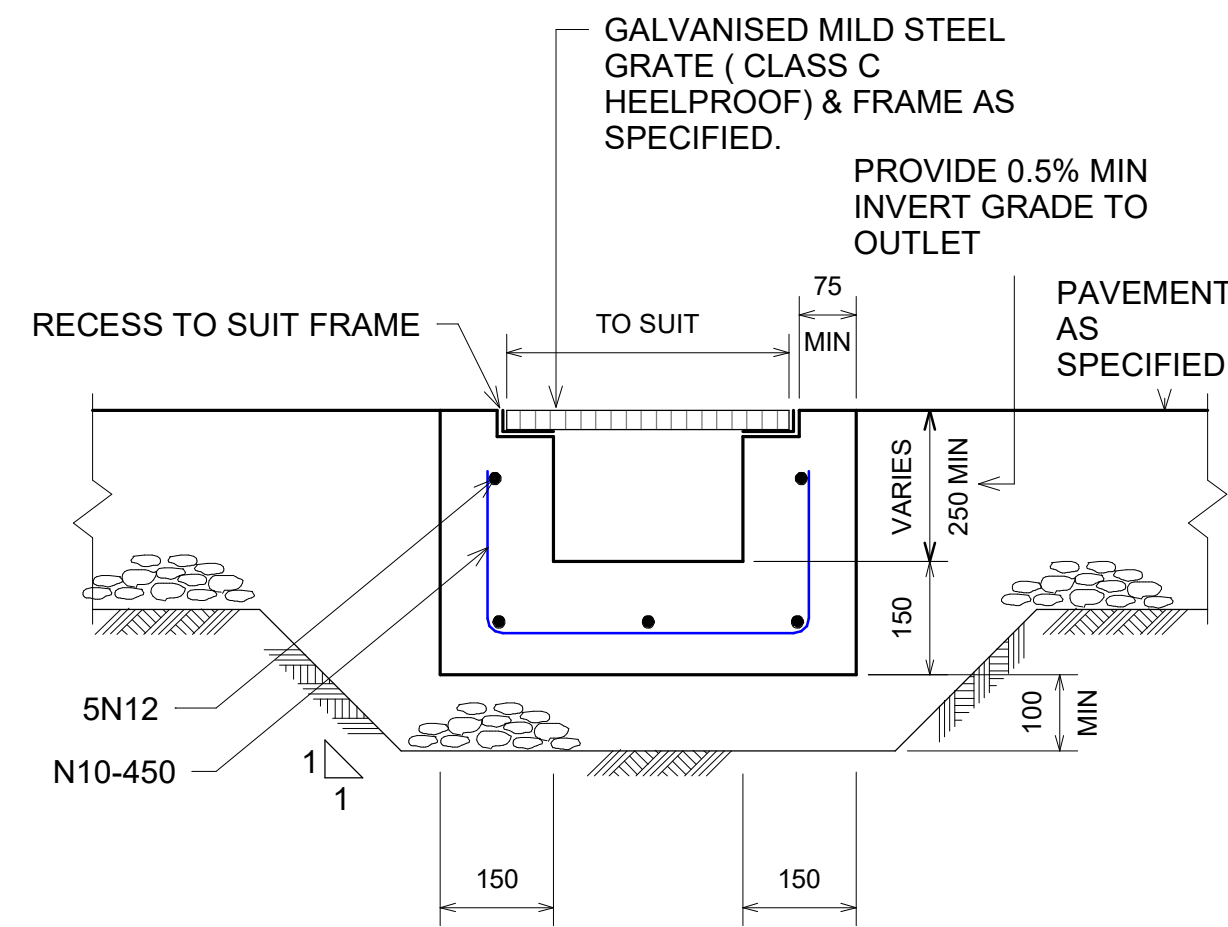
COLOUR REPRODUCTION WARNING:
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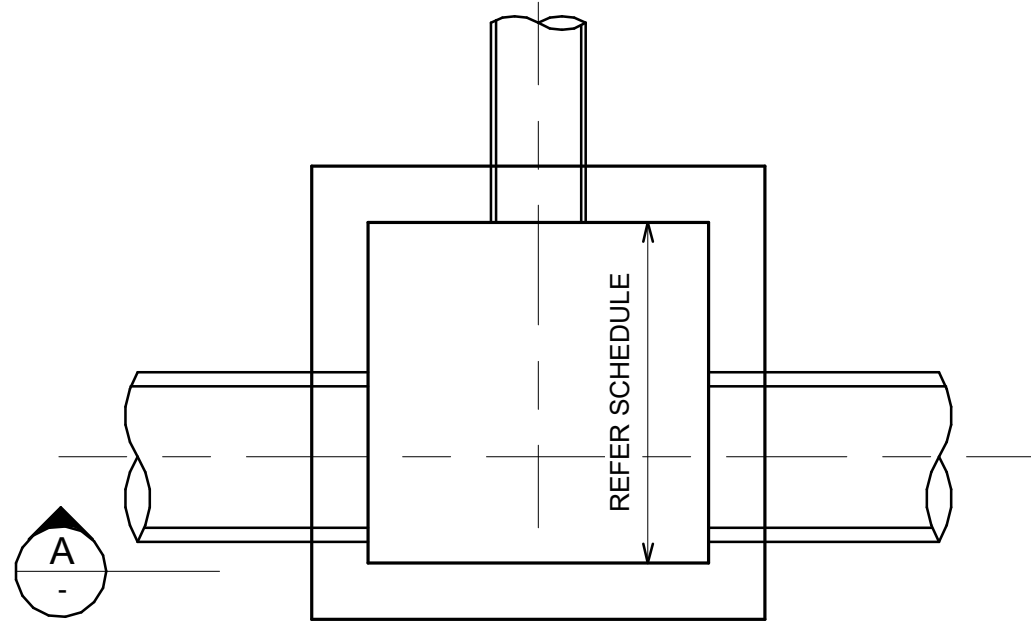
CLEANING EYE
NOT TO SCALE

- NOTES:**
1. WHEN POSITIONING IN STRAIGHT ALIGNMENT, STEP TO BE 400 WIDE.
 2. STAGGERED STEPS TO BE 300 WIDE, STEPS TO BE STAGGERED 300 CENTRE TO CENTRE FOR ALTERNATE STEPS WITH MINIMUM 45 OVERLAP.
 3. SPACING TO BE UNIFORM TO WITHIN ± 8 mm IN EACH PIT.
 4. STEP IRONS TO BE H.D. GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH LOCAL GOVERNMENT'S CODES & REQUIREMENTS

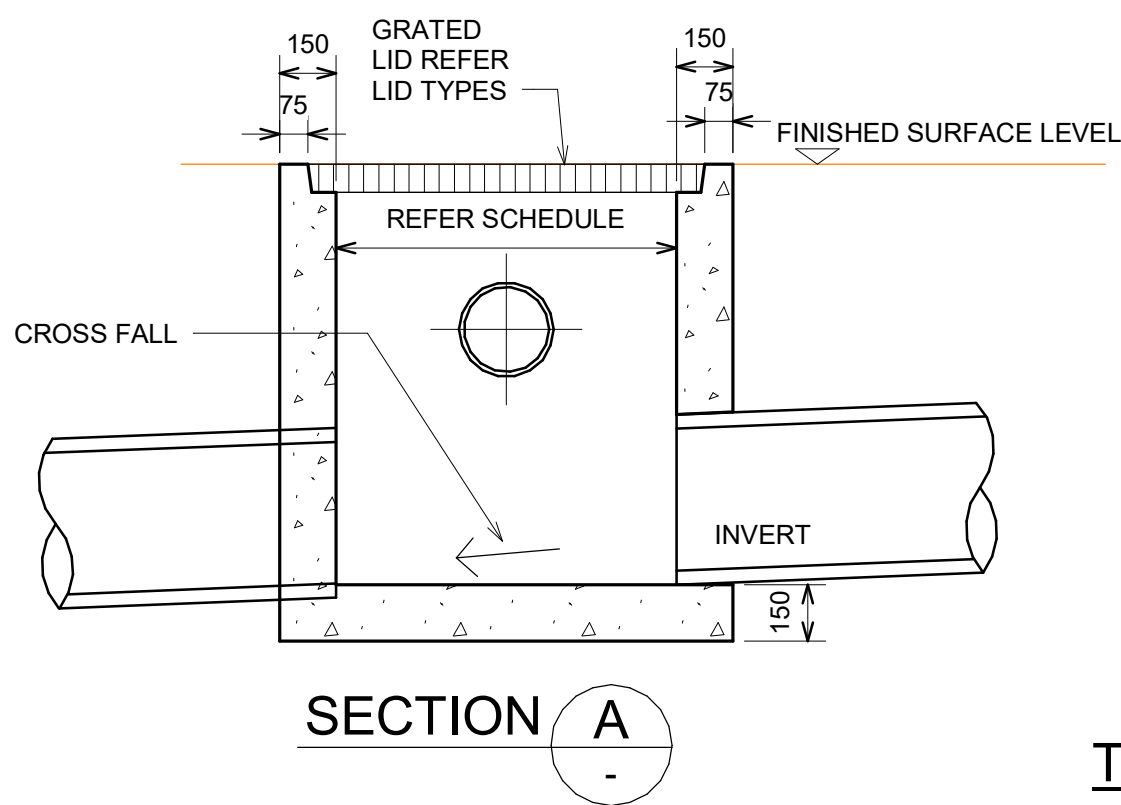
STEP IRONS
NOT TO SCALE



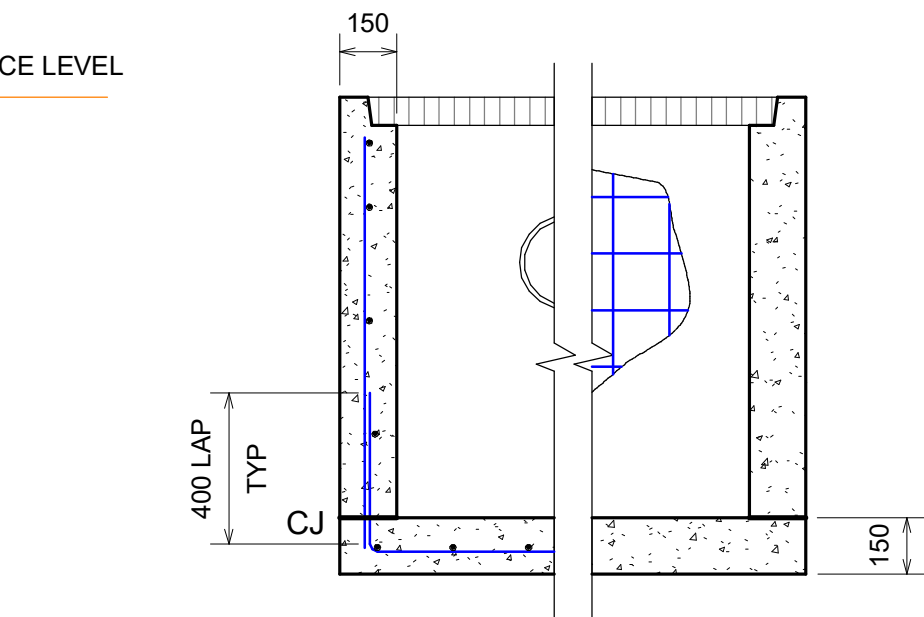
GRATED DRAIN PAVEMENT
SCALE 1:10



PLAN (LID REMOVED)



SECTION A



TYPICAL PIT REINFORCEMENT DETAIL

ALL STORMWATER DRAINAGE WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CENTRAL COAST COUNCIL CIVIL WORKS SPECIFICATIONS & STANDARD DRAWINGS AS REQUIRED

PIT SCHEDULE

PIT NO.	SIZE	GRATE CLASS	LID TYPE
EP1-1	EXISTING	EXISTING	EXISTING (A)
EP2-0	EXISTING	EXISTING	EXISTING (D)
EP2-1	EXISTING	EXISTING	EXISTING (D)
EP2-2	EXISTING	EXISTING	EXISTING (D)
EP2-3	EXISTING	EXISTING	EXISTING (D)
EP2-4	EXISTING	EXISTING	EXISTING (D)
EP2-5	EXISTING	EXISTING	EXISTING (D)
EP2-6	EXISTING	EXISTING	EXISTING (D)
EP2-7	EXISTING	EXISTING	EXISTING (D)
EP2-8	EXISTING	EXISTING	EXISTING (D)
EP2-9	EXISTING	EXISTING	EXISTING (D)
EP3-1	EXISTING	EXISTING	EXISTING (A)

GRATE DRAIN	GRATE CLASS	LID TYPE
GD2-1	C	A
GD2-2	C	A
GD4-1	A	A*
GD4-2	A	A*
GD4-3	A	A*
GD4-4	A	A*
GD6-1	A	A*
GD6-2	A	A*
GD6-3	A	A*
GD6-4	A	A*
GD6-5	A	A*
GD6-6	A	A*

PIT NO.	SIZE	GRATE CLASS	LID TYPE
NP1-1	900x900	A	A*
NP1-2	900x900	A	A*
NP1-3	900x900	A	A*
NP1-4	900x900	A	A*
NP1-5	900x900	A	A
NP1-6	900x900	C	A
NP2-1	900x900	C	V*
NP2-2	900x900	C	V*
NP2-3	900x900	C	V*
NP2-4	900x900	C	V*
NP2-5	900x900	C	V*
NP2-6	900x900	C	V*
NP2-7	900x900	C	V*
NP2-8	900x900	C	V*
NP2-9	900x900	C	D
NP2-10	900x900	C	D
NP2-11	900x900	C	D
NP2-12	900x900	C	D
NP2-13	900x900	C	D
NP2-14	900x900	C	D
NP2-15	900x900	C	D
NP2-16	900x900	C	D
NP2-17	900x900	C	D
NP2-18	900x900	C	D
NP2-19	900x900	C	D
NP2-20	900x900	C	D
NP2-21	900x900	C	C
NP3-1	900x900	C	D
NP3-2	900x900	C	D
NP3-3	900x900	C	D
NP3-4	900x900	C	D
NP3-5	900x900	C	D
NP4-1	900x900	A	A*
NP4-2	900x900	A	A*
NP4-3	900x900	A	A*
NP4-4	900x900	A	A*
NP4-5	900x900	A	A*
NP4-6	900x900	A	A*
NP4-7	900x900	A	A*
NP4-8	900x900	A	C
NP4-9	900x900	A	A
NP4-10	900x900	A	A
NP4-11	900x900	A	C
NP4-12	900x900	A	A*
NP4-13	900x900	A	A*
NP5-1	900x2000	C	C
NP5-2	900x2000	C	C
NP5-3	900x900	A	C
NP6-1	900x900	A	C
NP6-2	900x900	A	A*
NP6-3	900x900	C	C

- NOTES**
- * HEEL SAFE GRATE TYPE REQUIRED FOR PEDESTRIAN SAFETY.

- NOTES**
1. CONCRETE STRENGTH MINIMUM 25MPa AT 25 DAYS.
 2. SIDE DIMENSIONS WILL VARY SUBJECT TO PIPE SIZE. SIDE DIMENSIONS ARE DETERMINED BY LARGEST OUTSIDE PIPE DIMENSIONS PLUS 200.
 3. PIT DIMENSIONS ARE ALSO GOVERNED BY THE DEPTH OF THE PIT.
 4. REINFORCEMENT IN WALLS/SLAB TO BE IN ACCORDANCE WITH LOCAL GOVERNMENT'S CODES & REQUIREMENTS
 5. UNLESS NOTED OTHERWISE, PROVIDE ENVIROPODS TO ALL GRATED PITS.

HL	JM	FOR SSDA	13.03.2025	C
HL	JM	FOR REVIEW	19.12.2024	B
HL	JM	FOR REVIEW	29.11.2024	A
BY	CHKD	DESCRIPTION	DATE	REV

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PHONE+61 2 8876 5300

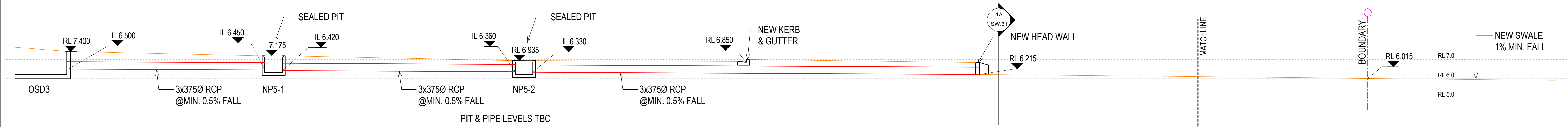
CLIENT
Eileen O'Connor Catholic School
CATHOLIC SCHOOLS Broken Bay

PROJECT
EILEEN O'CONNOR CATHOLIC SCHOOL
STORMWATER TYPICAL DETAILS

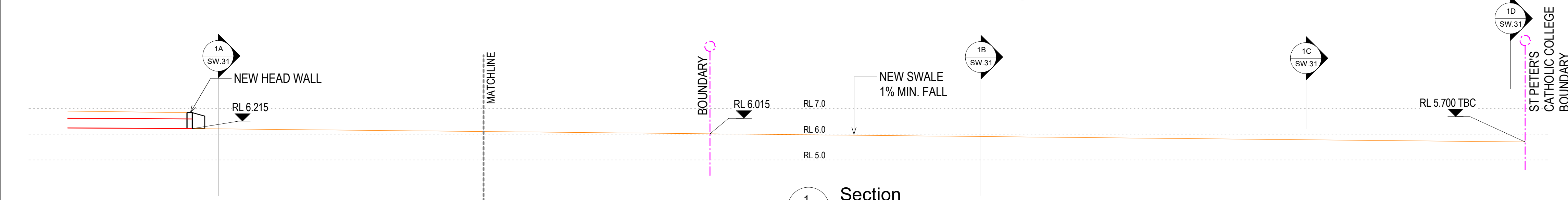
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A.B.N. 33 102 603 558
TEL: 02 99691999 EMAIL: mail@jamestaylorassociates.com.au

DESIGN JM
DRAWN HL
CHKD.
APPRD.
SCALE As indicated DATE

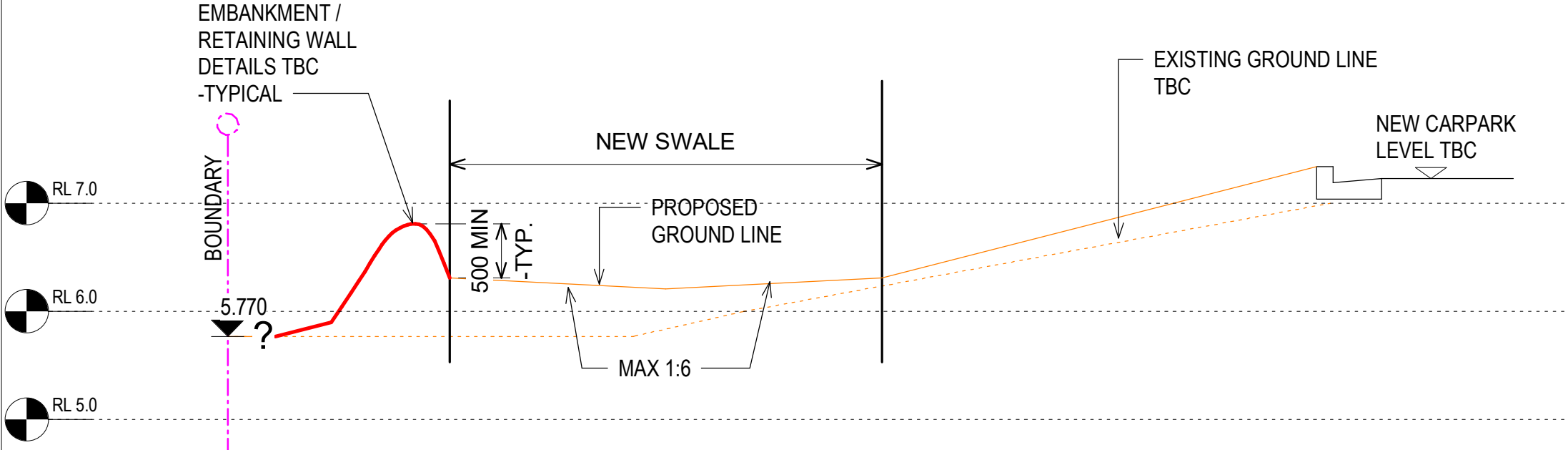
PROJECT NO.
6588
DRAWING NO.
SW.30
REV
C



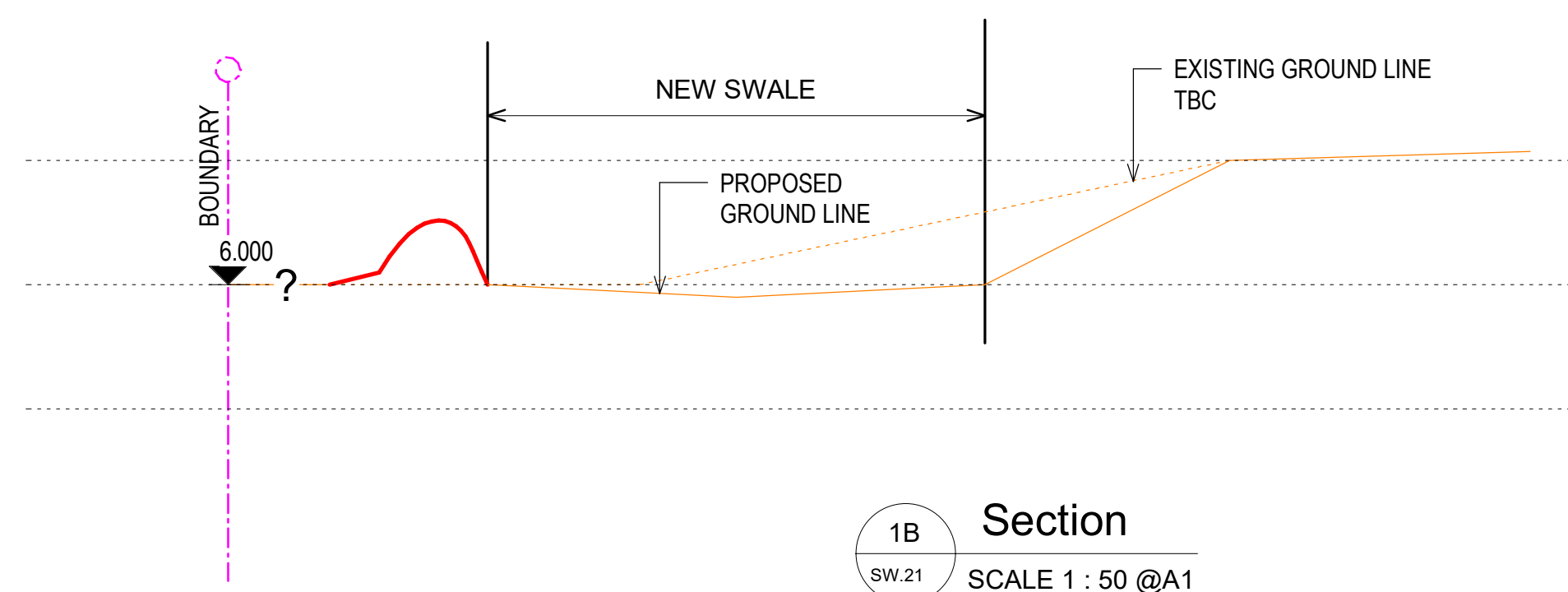
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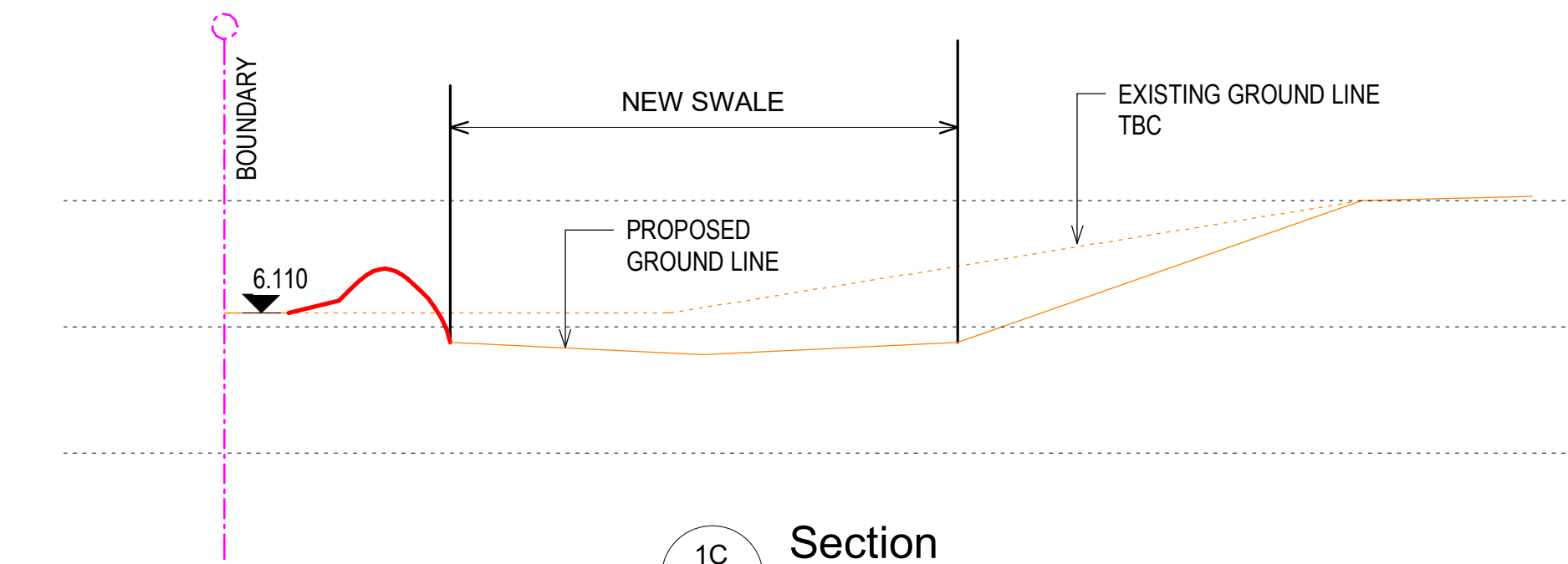
1. Section
SW.21 SCALE 1 : 100 @A1
CONTINUED



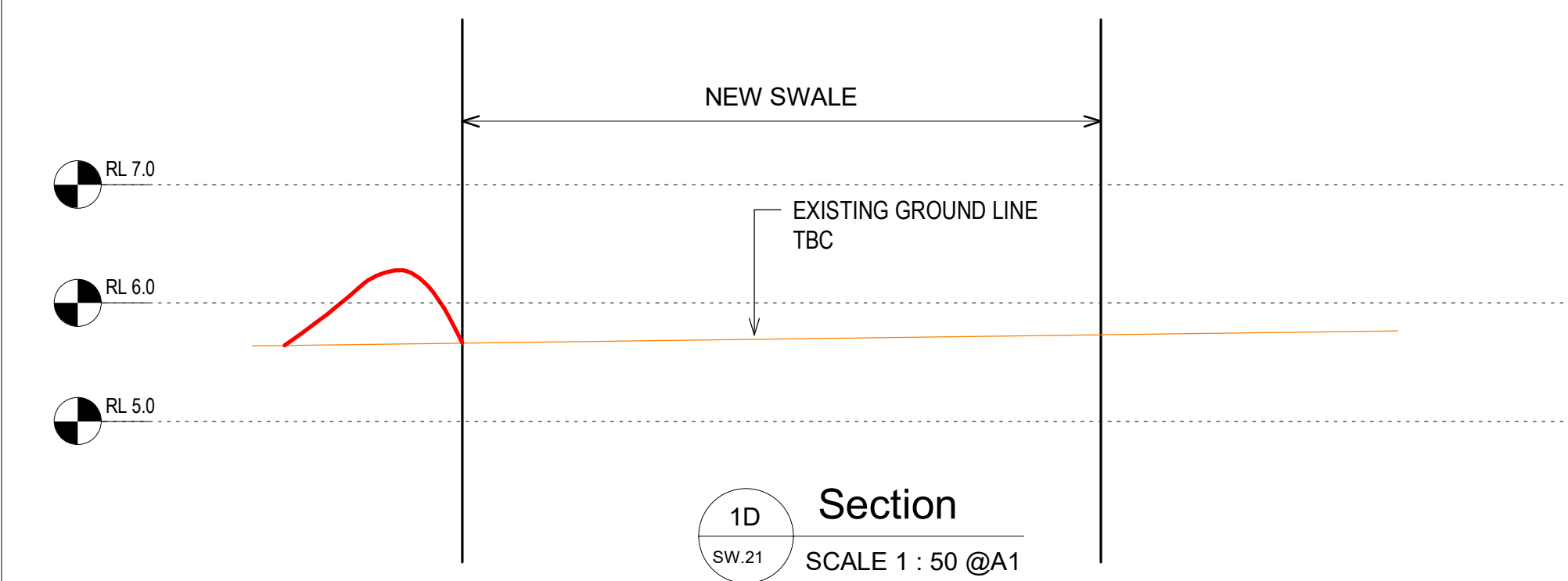
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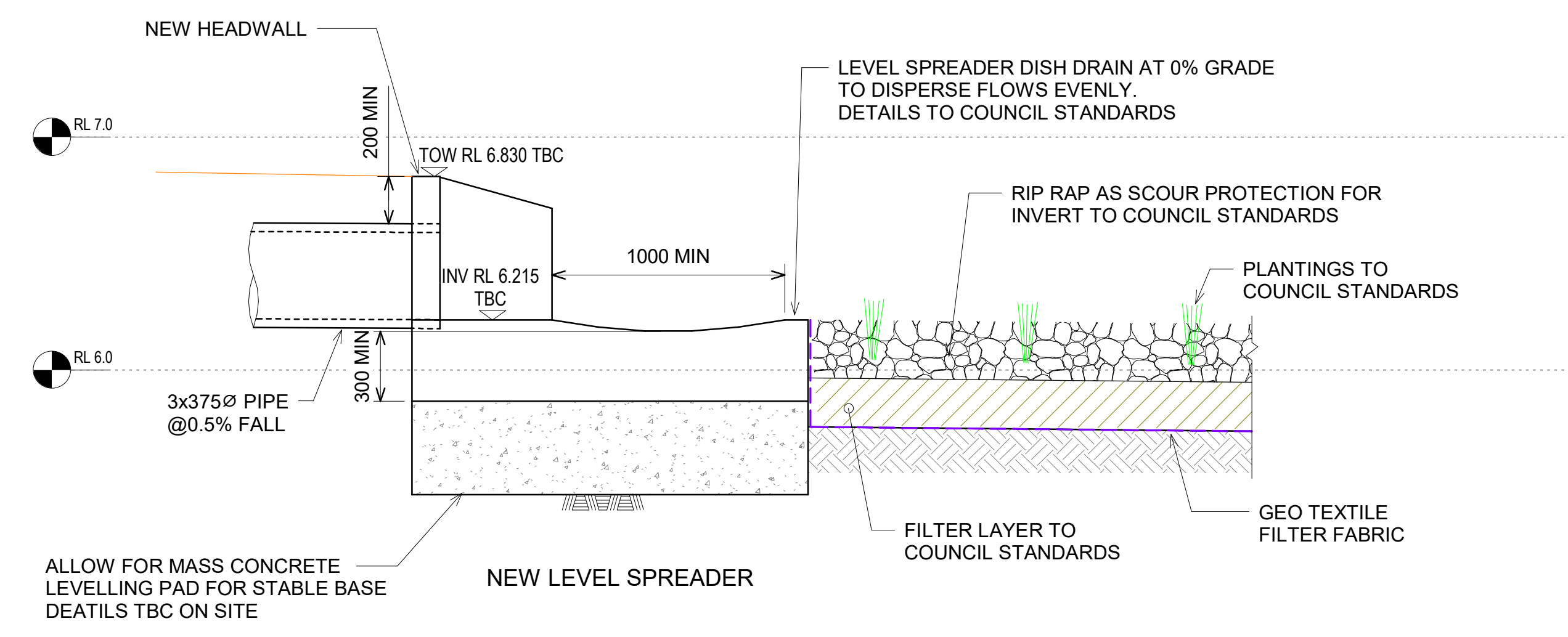
1B Section
SW.21 SCALE 1 : 50 @A1



1C Section
SW.21 SCALE 1 : 50 @A1



1D Section
SW.21 SCALE 1 : 50 @A1



2 Section
SW.21 SCALE 1 : 20 @A1

A1

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LONGITUDINAL SECTION - EP2-2 TO OSD1

RESULTS FROM DRAINS MODEL FOR POST DEVELOPMENT CATCHMENTS

ARCHITECT

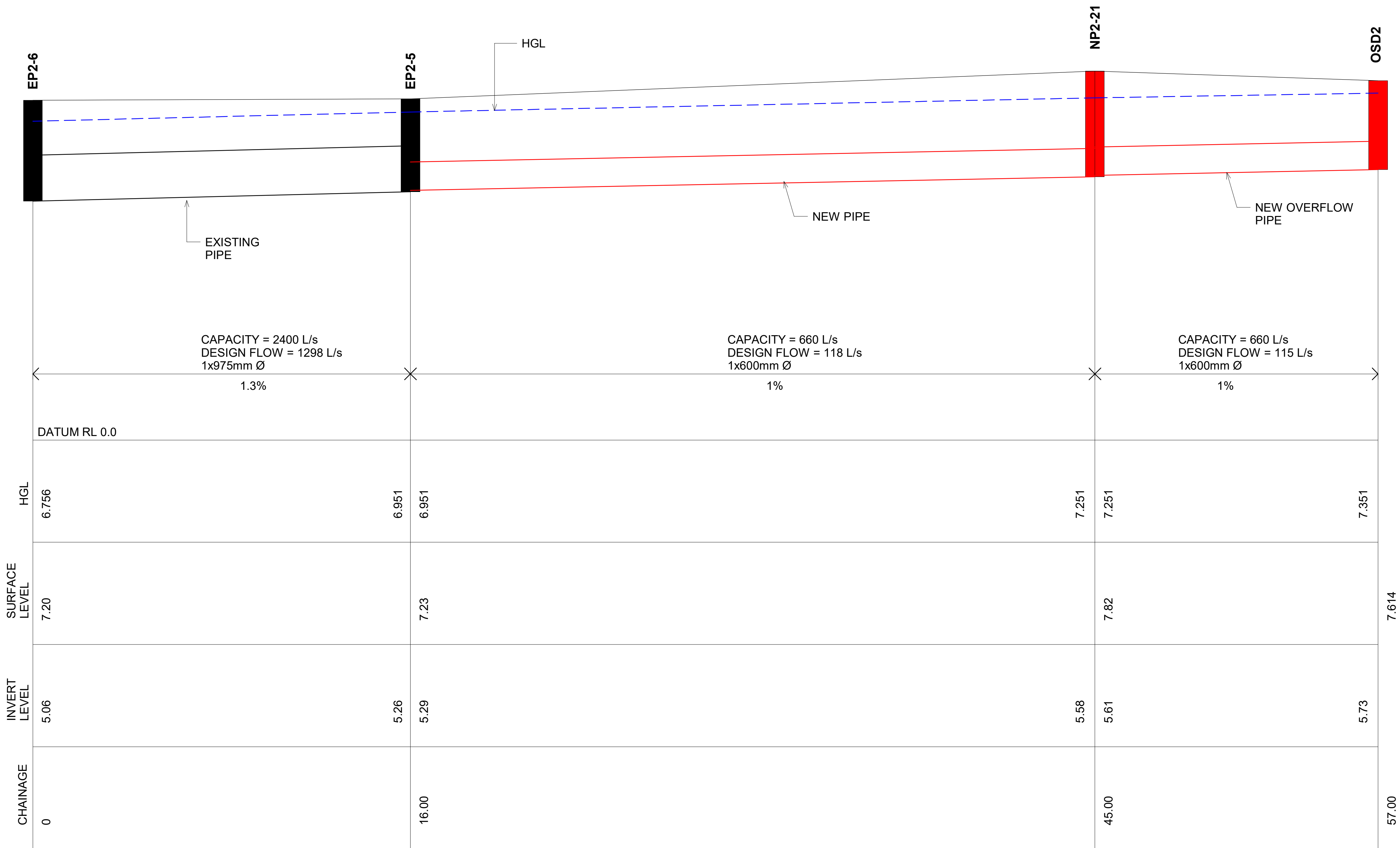
STANTON DAHL
ARCHITECTS

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2
SW.22

LONGITUDINAL SECTION - EP2-6 TO OSD2

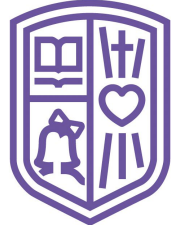
SCALE 1:100 @A1 HORIZONTAL
SCALE 1:50 @A1 VERTICAL

RESULTS FROM DRAINS MODEL FOR POST DEVELOPMENT CATCHMENTS
RESULTS FOR CRITICAL 1% AEP STORM EVENT

HL	JM	FOR SSDA	13.03.2025	B	
HL	JM	FOR REVIEW	19.12.2024	A	
BY	CHKD	DESCRIPTION	DATE	REV	

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CLIENT



Eileen O'Connor
Catholic School



CATHOLIC SCHOOLS
Broken Bay

PROJECT

EILEEN O'CONNOR CATHOLIC SCHOOL

STORMWATER SECTIONS SHEET 3

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A.B.N. 33 102 603 558
TEL: 02 99691999 EMAIL: mail@jamestaylorassociates.com.au

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DRAWN HL

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SCALE 1 : 100

DATE

PROJECT NO.

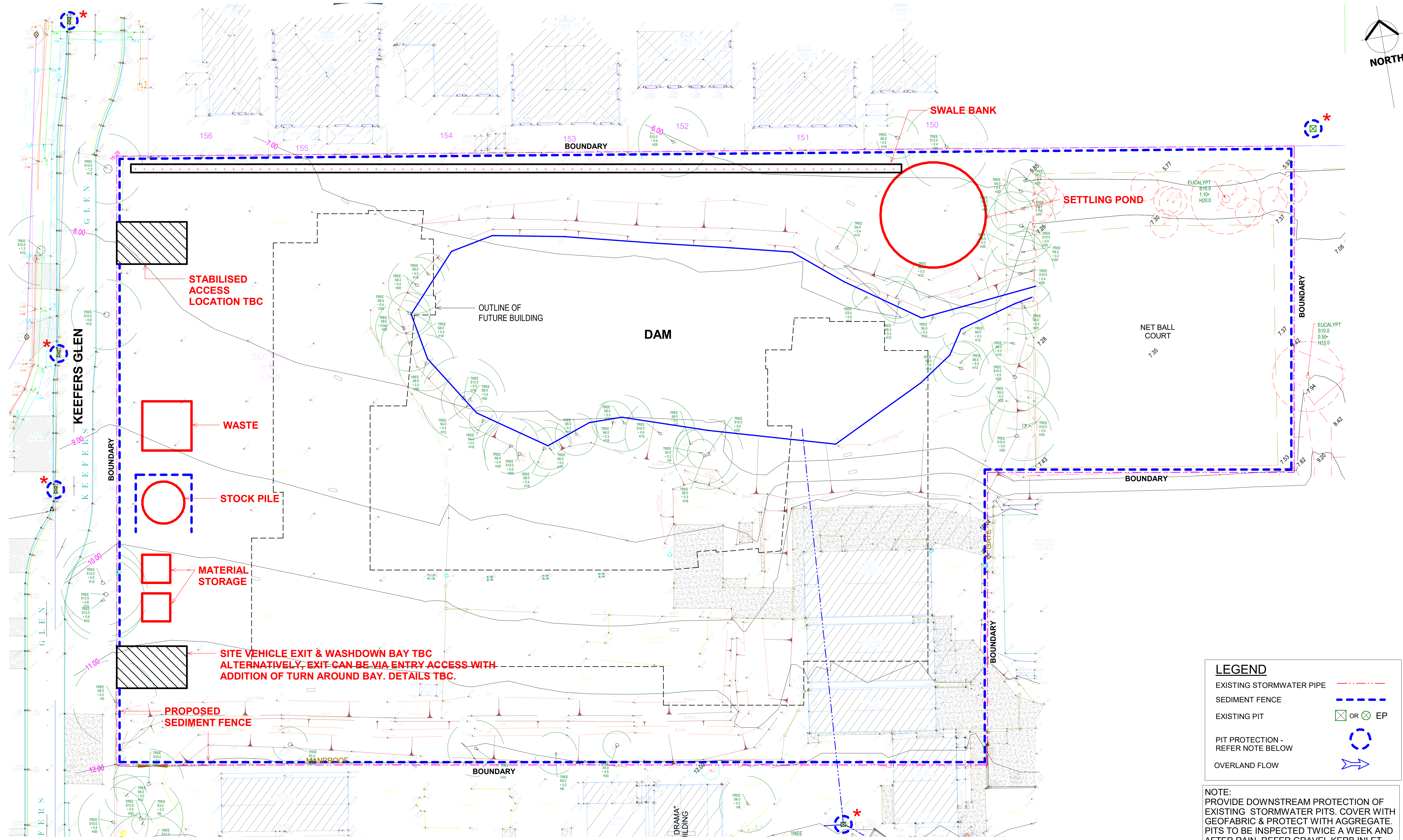
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CLIENT
 **Eileen O'Connor Catholic School**


PROJECT
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SILT & SEDIMENTATION PLAN

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SUITE 301, 115 MILITARY ROAD NEUTRAL BAY NSW 2089
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SILT & SEDIMENTATION PLAN
SCALE 1 : 250 @A1

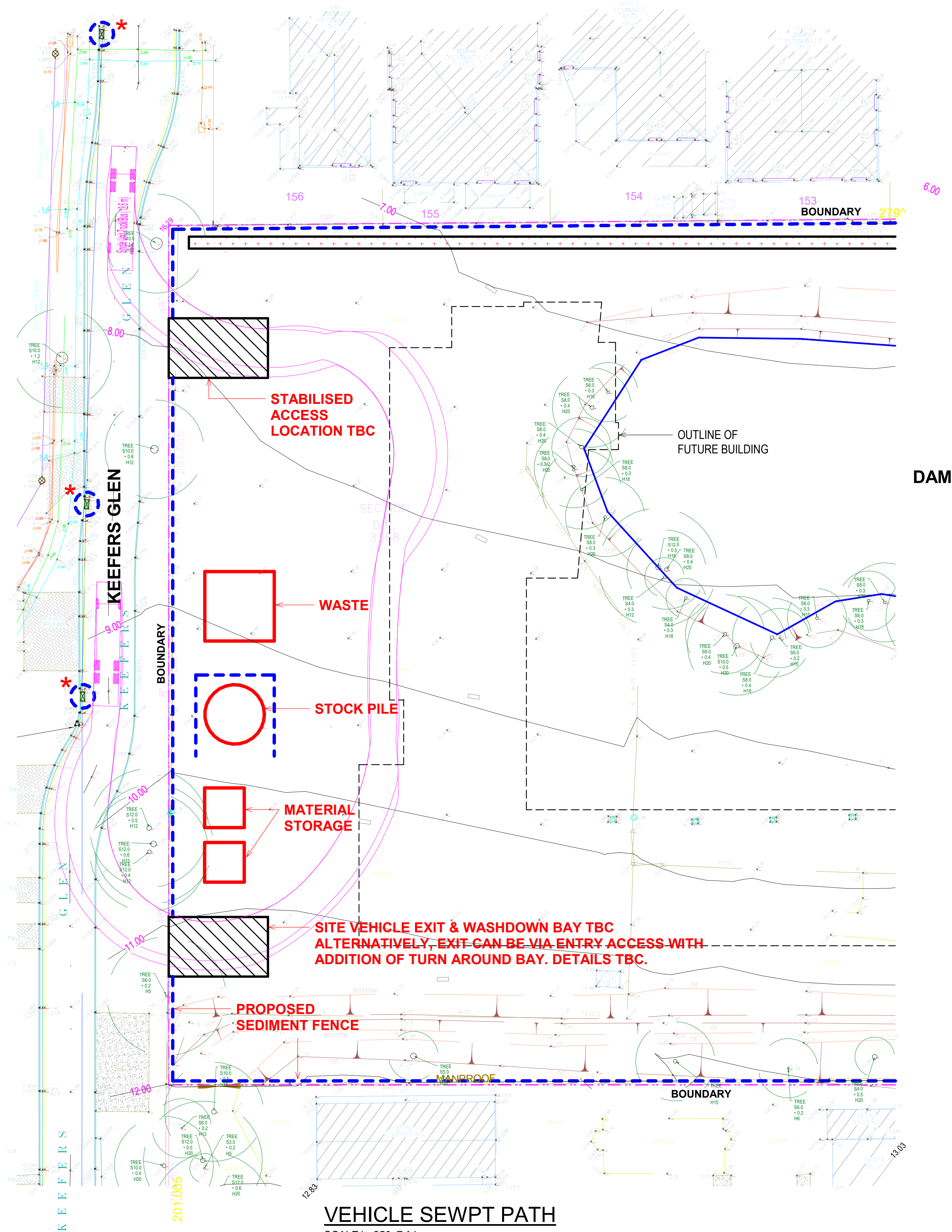
LOCATION OF STABILISED ACCESS, MATERIAL STORAGE, STOCK PILE & WASTE TBC. LOCATIONS WILL VARY DURING EACH CONSTRUCTION STAGE. ALL EROSION & SEDIMENT CONTROL TO BE IN ACCORDANCE WITH COUNCIL STANDARDS.

LEGEND

- EXISTING STORMWATER PIPE
- SEDIMENT FENCE
- EXISTING PIT
- PIT PROTECTION - REFER NOTE BELOW
- OVERLAND FLOW

NOTE:
PROVIDE DOWNSTREAM PROTECTION OF EXISTING STORMWATER PITS. COVER WITH GEOTEXTILE & PROTECT WITH AGGREGATE. PITS TO BE INSPECTED TWICE A WEEK AND AFTER RAIN. REFER GRAVEL KERB INLET SEDIMENT TRAP DETAILS.

 **PROTECT ALL INLETS WITH GEOTEXTILE FILTERS INSERTED UNDER GRATED LIDS. CLEAN / RENEW AFTER MAJOR STORM EVENTS.**



VEHICLE SEWPT PATH

SCALE 1 : 250 @A1

TRUCK (12.5m)

ENTERING AND EXITING SITE

HL	JM	FOR SDA	13.03.2025	C
HL	JM	FOR REVIEW	19.12.2024	B
HL	JM	FOR REVIEW	29.11.2024	A
BY	CHKD	DESCRIPTION	DATE	REV

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CLIENT



Eileen O'Connor
Catholic School



PROJECT

EILEEN O'CONNOR CATHOLIC SCHOOL

VEHICLE SWEPT PATH

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DESIGN	JM	DRAWN	HL
CHKD.			
APPRD.			
SCALE 1 : 250		DATE	

PROJECT NO.
6588

DRAWING NO.
SW.45

REV
C