

MONTE SANT ANGELO MERCY COLLEGE

128 MILLER ST, N. SYDNEY

19133 - CIVIL DOCUMENTATION

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| Rev | Description | Eng | Draft | Date |
|-----|--------------------------|-----|-------|----------|
| P1 | FOR COORDINATION | GP | GP | 28.08.20 |
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DRG No. DRAWING TITLE

| | |
|------|--|
| C000 | COVER SHEET |
| C001 | CIVIL NOTES |
| C050 | SITE PLAN |
| C055 | CUT AND FILL PLAN |
| C060 | SEDIMENT AND EROSION CONTROL PLAN |
| C065 | SEDIMENT AND EROSION CONTROL TYPICAL DETAILS |
| C070 | LEVEL 0 - DRAINAGE PLAN |
| C080 | LEVEL 1 - DRAINAGE PLAN |
| C090 | LEVEL 2 - DRAINAGE PLAN |
| C091 | MCQUOIN FRONT DRAINAGE DIVERSION PLAN |
| C100 | LEVEL 3 - DRAINAGE PLAN |
| C200 | EXISTING SITE DRAINAGE & DIVERSION PLAN |
| C250 | MCQUOIN DRAINAGE DIVERSION PLAN |
| C260 | SUBSTATION DRAINAGE DIVERSION PLAN |
| C300 | LEVEL 2 - OVERLAND FLOW PATH PLAN |
| C310 | LEVEL 3 - OVERLAND FLOW PATH PLAN |
| C320 | LEVEL 4 - OVERLAND FLOW PATH PLAN |
| C400 | CATCHMENT AREA PLAN |
| C500 | TYPICAL CIVIL DETAILS - SHEET 1 |
| C510 | TYPICAL CIVIL DETAILS - SHEET 2 |
| C520 | TYPICAL CIVIL DETAILS - SHEET 3 |
| C600 | TYPICAL PAVEMENT DETAILS |
| C700 | CIVIL SECTIONS - SHEET 1 |
| C701 | CIVIL SECTIONS - SHEET 2 |
| C702 | CIVIL SECTIONS - SHEET 3 |
| C703 | CIVIL SECTIONS - SHEET 4 |
| C704 | CIVIL SECTIONS - SHEET 5 |
| C705 | CIVIL SECTIONS - SHEET 6 |



CIVIL GA - LOCALITY MAP

CONSTRUCTION ISSUE

Status
CIVIL DRAWING

WEBBER DESIGN
 STRUCTURAL ENGINEERING
 MELBOURNE OFFICE: LEVEL 2, 31 QUEEN STREET MELBOURNE, VIC, AUSTRALIA 3000 T: +61 3 9614 7156
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CLIENT

 Monte Scientia Project
 MONITORING, INSPECTION, INVESTIGATION

PROJECT
MONTE SANT ANGELO MERCY COLLEGE
 128 MILLER ST, N. SYDNEY

TITLE
COVER SHEET

| | | |
|-------------------------|---------------------|-------------------|
| DATE AUGUST 20 | DESIGNED BY GP | CHECKED BY GP |
| SCALES AT A1 1 : 100 | DRAWN BY GP | APPROVED BY PW |
| JOB No. 19133 | DRAWING No. C000 | REV. C2 |



6/10/2021 4:56:59 PM C:\Users\Gardal\Documents\WD19133_Monte_Sant_Angelo_Mercy_College_Civil_Central_gpas\060811.rvt

GENERAL NOTES:

- 1. THESE DRAWINGS, SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION, & ALL OTHER ASSOCIATED DISCIPLINE DRAWINGS SHOULD THERE BE ANY 'DISCREPANCY', POTENTIAL CONFLICT/CLASH ETC., NOTIFY THE SUPERINTENDENT IMMEDIATELY FOR RESOLUTION.
2. THE CONTRACTOR SHALL ARRANGE & PAY FOR ALL INSPECTIONS REQUIRED BY THE COUNCIL & ALL OTHER RELEVANT STATUTORY AUTHORITIES. ANY DRAINAGE OR OTHER LEVY FEES TO BE PAID BY OTHERS.
3. ALL SUB-GRADES/SUB-BASES/BASE COURSES & DRAINS, PRIOR TO CONCEALMENT, ARE TO BE INSPECTED BY THE SUPERINTENDENT & ALSO TESTS WITNESSED AND/OR VERIFIED BY AN AGREED PROCEDURE. AT LEAST TWO (2) DAYS NOTICE (IN WRITING) TO BE GIVEN. IT SHOULD BE NOTED THAT THESE INSPECTIONS/FINDINGS ARE NOT TO BE TAKEN AS HAVING RECEIVED APPROVAL FOR THE COMPLIANCE OF THE INSTALLATION/CONSTRUCTION ETC. COMPLIANCE WILL BE ISSUED SUBJECT TO 'SATISFACTORY' EVIDENCE THAT THE WORKS COMPLY WITH THE CONTRACT DOCUMENTS & AUTHORITIES/SERVICE COMPANIES' REQUIREMENTS.
4. EXISTING SURFACE LEVELS/FEATURES SHOWN HAVE BEEN USED IN THE DESIGN PROCESS. THESE ARE SHOWN AS A GUIDE ONLY & MAY BE USED BY THE CONTRACTOR ON THE BASIS THAT THERE WILL BE NO CONTRACTUAL VARIATION APPROVED FOR ANY DISCREPANCIES IN THE EXISTING LEVELS/FEATURES CAUSING VARIATIONS IN THE QUANTITIES.
5. ALL CONNECTING (TYING INTO); SURFACE LEVELS, INVERT LEVELS, FEATURES SHALL BE CHECKED BY CONTRACTOR PRIOR TO CONSTRUCTION OF ANY WORKS. REPORT ALL FINDINGS TO THE SUPERINTENDENT PRIOR TO PROCEEDING WITH THE WORK.
6. ANY SERVICE THAT IS DISUSED/REDUNDANT/TO BE ABOLISHED SHALL BE ABOLISHED & REMOVED. CUT/PLUG/SEAL & REMOVE ABOLISHED PORTIONS ENSURING RETAINED PORTIONS ARE SECURELY SEALED/PLUGGED. ALL TERMINATIONS SHALL BE IN ACCORDANCE WITH THE AUTHORITIES/SERVICE COMPANIES' REQUIREMENTS. ANY SERVICES TO BE RELOCATED SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DRAWINGS & THE REQUIREMENTS OF THE AUTHORITIES/ SERVICE COMPANIES BACKFILL RESULTANT EXCAVATIONS. ALLOW TO SAW-CUT PAVEMENTS PRIOR TO EXCAVATION & REINSTATE TO NEAREST JOINT.
7. ALL TRENCHES/EXCAVATIONS UNDERNEATH PAVED/NON-SPANNING SLABS/KREBS/CHANNELS AND WITHIN 500mm OF THESE SHALL BE BACKFILLED WITH CLASS 2 20mm CRUSHED ROCK PLACED & COMPACTED IN LAYERS TO A DENSITY OF 98% OF THE STANDARD MAXIMUM DRY DENSITY (S.M.D.D.) A.S.1289. TRENCHES/EXCAVATIONS ELSEWHERE SHALL BE BACKFILLED WITH APPROVED SELECT MATERIAL, FREE OF DEBRIS, RUBBLE, CLAY LUMPS & CAPABLE OF BEING COMPACTED IN LAYERS TO AT LEAST 95% OF THE S.M.D.D. OR OTHER METHOD OF COMPACTION AS INSTRUCTED BY THE SUPERINTENDENT. (ALLOW TO IMPORT IF INSUFFICIENT SELECT MATERIAL ON SITE)
8. ANY TRENCH/LOCAL EXCAVATION EXCEEDING 1.5m DEPTH, AND LESSER DEPTHS WHERE THE SIDES ARE NOT SELF-SUPPORTING, SHALL BE STABLES/SHORED TO COMPLY WITH THE RELEVANT CONSTRUCTION SAFETY ACTS.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY DRAIN THE SITE AT ALL TIMES.
10. ANY PAVEMENT, FEATURE OR SURFACE THAT IS DISUSED/REDUNDANT/TO BE ABOLISHED SHALL BE ABOLISHED & REMOVED, ALLOW TO SAW-CUT OUT PAVEMENTS, FENCES & OTHER STRUCTURE FEATURES & SURFACES PRIOR TO THE REMOVAL. TO ENSURE NEAT EDGE FOR ABUTTAL, ALLOW TO SAW-CUT PAVEMENTS PRIOR TO EXCAVATION & REINSTATE TO NEAREST JOINT
11. NOT ALL EXISTING SERVICES/MAINS ARE NECESSARILY SHOWN. POSITIONS SHOWN ARE ASSUMED LOCATIONS ONLY. SPACE SITE VERIFICATION, INVOLVING PROBING, INVESTIGATIVE EXCAVATIONS & CHECKING RECORDS AT AUTHORITIES/ COMPANIES IS TO BE CARRIED OUT PRIOR TO COMMENCEMENT OF WORK & BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
12. DIMENSIONS REFER TO OUTER WALL OF BUILDING CENTERLINE OF SERVICE BACK OF KERB THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH SITE CONDITIONS & REFER ANY DISCREPANCIES TO THE SUPERINTENDENT PRIOR TO COMMENCING WORK.
13. DRAWINGS SHALL NOT BE SCALED.
14. ON COMPLETION OF THESE WORKS THE CONTRACTOR SHALL CLEAN UP THE SITE TO THE SATISFACTION OF THE SUPERINTENDENT AND REMOVE ALL DEBRIS, RUBBLE & SURPLUS MATERIAL OFF SITE.
15. ALL ANOMALIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR CLARIFICATION BEFORE PUTTING WORK IN HAND.
16. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE NECESSARY VEHICLE CROSSING PERMIT IS OBTAINED FROM COUNCIL THE VEHICLE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE COUNCIL REQUIREMENTS.
17. ALL HEIGHTS ARE TO AHD (REFER LAND SURVEYOR).
18. EXCAVATED MATERIAL & TOPSOIL TO BE STOCKPILED AS DIRECTED BY THE SUPERINTENDENT AND REUSED ON SITE AS MUCH AS POSSIBLE. NO MATERIAL TO BE MOVED OFF SITE UNLESS APPROVED BY THE SUPERINTENDENT
19. FOR LINE MARKING STANDARDS AND REQUIREMENTS REFER TO THE ARCHITECTS SPECIFICATIONS.
20. PRIOR TO COMMENCING ANY WORKS OR TRANSPORTATION OF SOIL OFF SITE REFER TO THE RECOMMENDATIONS CONTAINED WITHIN THE SOIL CONTAMINATION ASSESSMENT REPORT.
21. FOR PREPARATION OF AVAILABLE SUB BASE TO PAVEMENTS, FOOTINGS FOR RETAINING WALLS, SCREENS, FENCES AND CONCRETE SEATING, REFER TO THE RECOMMENDATIONS CONTAINED WITHIN THE AVAILABLE GEOTECHNICAL REPORT.

EXCAVATION, FILLING, COMPACTION TOPSOIL:

- 1. USEABLE TOPSOIL OBTAINED FROM EXCAVATIONS SHALL BE STOCKPILED SEPARATELY ON SITE FOR USE IN LANDSCAPING AREAS
2. FILLING
FILL MATERIAL SHALL BE FREE OF TOPSOIL, DELETERIOUS AND/OR PERISHABLE MATTER & WHICH AFTER COMPACTION HAS A MAXIMUM PARTICLE DIMENSION OF NOT MORE THAN 150mm WITHIN 400mm OF THE SUBGRADE, OR 400mm AT DEPTHS GREATER THAN 400mm BELOW SUBGRADE. MATERIAL CLASSIFIED AS SILT, EITHER BEFORE OR AFTER COMPACTION, IS NOT ACCEPTABLE AS FILL UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.

THE MATERIAL IMMEDIATELY BELOW THE FILL AREA SHALL BE SCARIFIED TO A DEPTH OF 150mm, & COMPACTED TO MEET THE SPECIFIED REQUIREMENTS.

FILL SHALL BE PLACED & SPREAD IN UNIFORM LAYERS & SHALL BE COMPACTED TO MEET THE SPECIFIED REQUIREMENTS. DURING THE PLACEMENT OF FILL THE SURFACE OF EACH LAYER SHALL BE KEPT GENERALLY PARALLEL TO THE SURFACE OF THE SUBGRADE. ANY ROCKY MATERIAL PRESENT IN THE FILL FOR ANY LAYER SHALL BE UNIFORMLY DISTRIBUTED WITHIN THE LAYER & THE WHOLE SHALL BE COMPACTED AS SPECIFIED.

THE CONTRACTOR SHALL ENSURE THAT AN ADEQUATE BOND WILL DEVELOP BETWEEN EACH LAYER OF FILL. FILLING SHALL BE CARRIED UP IN HORIZONTAL LAYERS, EXTENDING THE FULL WIDTH OF THE WORKS, NOT EXCEEDING 200mm. EACH LAYER SHALL BE COMPACTED IN ACCORDANCE WITH A.S. 1289 BY APPROVED COMPACTION EQUIPMENT, CAREFULLY ROLLED & DIVERTED TO ENSURE AN EVEN COMPACTION OVER THE FULL AREA OF EACH LAYER.

- 3. COMPACTION:
COMPACTION REQUIREMENTS FOR EXCAVATION

REPLACE UNSUITABLE MATERIAL IN CUTTINGS OTHER THAN SUB-GRADE - DENSITY OF SURROUNDING UNDISTURBED SOIL
SUBGRADE PREPARATION, CUT OR FILL - COMPACTED TO NOT LESS THAW 98% STANDARD MAXIMUM DRY DENSITY FOR PAVEMENTS, 95% STANDARD MAXIMUM DRY DENSITY ELSEWHERE, AS 1289.

REPLACE UNSUITABLE SUBGRADE MATERIAL -COMPACTED TO NOT LESS THAN 98% STANDARD MAXIMUM DRY DENSITY FOR PAVEMENTS, 95% STANDARD MAXIMUM DRY DENSITY ELSEWHERE, AS 1289.

- 4. SOIL REPORT
REFER TO RECOMMENDATION CONTAINED WITHIN THE GEOTECHNICAL REPORT FOR ALL SITE EXCAVATION FILLING AND COMPACTION REQUIREMENTS.

STORMWATER DRAINAGE:

- 1. UNLESS NOTED OTHERWISE (U.N.O), ALL STORMWATER DRAINS GREATER THAN 150 DIAMETER SHALL BE CLASS 2 RCP RRI PIPES.
2. ALLOW FOR ALL NECESSARY FITTINGS, SHORT PIPES ETC, WHETHER OR NOT DETAILED ON DRAWING. ALL CONNECTIONS ON GRADE TO DRAINS (WHERE NOT AT PIT) TO BE 45°. ALL FITTINGS TO BE MANUFACTURED.
3. AG DRAINS TO BE 100mm DIAMETER CORRUGATED PERFORATED PLASTIC PIPE (1000 KN/m STRENGTH), UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT TRENCH TO BE A MINIMUM OF 300mm WIDTH PIPES TO BE WRAPPED IN GEOTEXTILE FABRIC, & BACKFILLED WITH 7 N S SCREENINGS MINIMUM GRADE 1 IN 100 WHERE REQUIRED, FOR MAINTENANCE TERMINATE HEAD OF AG DRAIN AT SURFACE LEVEL WITH PVC SCREWED CAP.
4. COVER LEVELS OF PITS IN GRASSED OR GARDEN AREAS ARE GIVEN AS A GUIDE ONLY. COVER LEVELS SHALL BE ADJUSTED IF REQUIRED UPON COMPLETION OF THESE AREAS.
5. PITS TO BE CONSTRUCTED IN ACCORDANCE WITH DRAWINGS & ALSO AUTHORITY STANDARD DRAWINGS, WITH ALL INTERNAL SURFACES & EXPOSED SURFACES FINISHED SMOOTH & TRUE THE FORMWORK SHALL BE STRAIGHT, SMOOTH & COATED. ALL BREAK-INS FOR PIPE ENTRIES ARE TO BE MADE NEAT & FINISHED SMOOTH WITHOUT GAPS/CAVITIES. GRATES/SURROUNDS ARE TO BE HOT DIPPED GALVANISED

PAVEMENTS:

- 1. CONCRETE FOOTPATH,
I) CONCRETE TO BE 25 MPa AT 28 DAYS.
II) EXPANSION JOINTS SHALL BE ZIPPED POLYETHYLENE FOAM WITH AN APPROVED JOINT SEALER (SUCH AS SIKA-FLEX). THESE JOINTS ARE TO BE LOCATED WHERE PAVEMENT ABUTS STRUCTURAL COMPONENT, I E. BUILDINGS, PITS ETC., & AT INTERVALS OF NOT MORE THAN 12 METRES.
III) CONTRACTION JOINTS SHALL BE PROVIDED AT EVEN SPACINGS, BUT NOT MORE THAN 2m C-C IN PATHS. FOR BROAD AREAS, SPACING TO BE EVEN, BUT NOT MORE THAN 3M C-C. CONSTRUCTION JOINTS SHALL COINCIDE WITH EXPANSION/CONTRACTION JOINTS
IV) NO CONCRETE POUR TO EXCEED 15 METRES.
V) CONCRETE PAVING TO HAVE NON-SKID FLOAT FINISH.
2. ASPHALT & BITUMINOUS SURFACE TREATMENT BITUMEN, BITUMINOUS MIX & AGGREGATE MATERIAL FOR ASPHALT AND SURFACE TREATMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEC. 407 OF THE VICROADS SPEC., EXCEPT THE MAXIMUM VERTICAL IRREGULARITY AS MEASURED WITH A 3m STRAIGHT EDGE BETWEEN TWO POINTS SHALL NOT EXCEED 3mm THE FINISHED SURFACE SHALL BE FREE FROM DEPRESSIONS, RIDGES, JOINT OR OTHER IRREGULARITIES AND BE OF UNIFORM DENSITY & TEXTURE CONSISTENCY WITH NO FATTY OR BONEY AREAS (SEGREGATION)
3. CRUSHED ROCK, THE GRADING & PROPERTIES OF CRUSHED ROCK SHALL BE THE SAME CLASSIFICATION AS USED BY VICROADS.
4. PAVEMENT COMPACTION, SUB-BASE & BASECOURSE TO BE COMPACTED TO NOT LESS THAN 98% OF THE MAXIMUM STANDARD DRY DENSITY, AS1289.
5. SOFT AREAS, ANY CLAYEY SILT AND SOFT SOILS SHALL BE REMOVED AND REPLACED UNDER THE DIRECTION OF THE CONTRACTORS GEOTECHNICAL ENGINEER WITH APPROVED FILL MATERIAL (NON-SILTY, NON-ORGANIC) WITH A CBR GREATER THAN 5

SERVICES:

- 1. THE CONTRACTOR SHALL COORDINATE LAYING OF SERVICES TO AVOID CLASHES. REFER CLASHES/CONFLICTS TO SUPERINTENDENT FOR RESOLUTION PRIOR TO PROCEEDING. (WHERE APPLICABLE)

LANDSCAPE DEVELOPMENT:

- 1. RESPREAD USEABLE TOPSOIL OBTAINED FROM SITE STRIP IMPORT AS REQUIRED IF SHORTFALL.
2. ALL SURFACES ARE TO BE FLUSH WITH ABUTTING PAVING, KERBS, CHANNELS & TO FINISHED SURFACE LEVEL INDICATED & BE GRADED UNIFORMLY.

ROOF AND SUSPENDE FLOOR DRAINAGE:

- 1. ROOF AND SURFACE DRANAGE (INCLUSIVE OF BALCONIES, TERRACES AND GROUND FLOOR) IS TO BE INDEPENDENTLY DRAINED AND DOCUMENTED BY THE HYDRAULIC ENGINEER.
2. THE CONTRACTOR SHALL COORDINATE THE NECESSARY INTERFACE BETWEEN HYDROLOGICS AND CIVIL WORKS.

PRESERVATION OF EXISTING TREES MAINTENANCE REQUIREMENTS DURING CONSTRUCTION:

- 1. OPEN TRENCHING: IN THE PROXIMITY OF THE COUNCIL TREES OPEN TRENCHES ARE TO BE IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENTS.
2. FINES: CARE MUST BE TAKEN TO AVOID DAMAGE TO TREES DURING WORKS. UNDER COUNCIL BY LAWS FINES ARE APPLICABLE FOR ANY DAMAGE, INCLUDING BARK LOSS AND BROKEN BRANCHES
3. REINSTATEMENT: NATURE STRIP REINSTATEMENT MUST OCCUR IMMEDIATELY AFTER WORKS ARE COMPLETED. SPOILS ARE TO BE CLEAN, FERTILE AND WEED FREE. THE CONTRACTOR IS RESPONSIBLE FOR ANY SUBSIDENCE WHICH MAY OCCUR WITHIN THE FOLLOWING TWELVE (12) MONTHS. A DRY CLIMATE LAWN SEED IS TOO BE LIBERALLY APPLIED AND RAKED IN TO ALLOW GOOD GERMINATION AFTER RAIN OR WATERING
4. NATIVE VEGETATION REMOVAL: FOR WORKS REQUIRING THE REMOVAL OF NATIVE VEGETATION, APPROPRIATE INDIGENOUS SPECIES ARE TO NE REPLACED
5. COMPENSATION: IF ANY SIGNIFICANT TREES ARE DAMAGED OR SUFFER ILL EFFECTS DUE TO NON COMPLIANCE WITH THE COUNCILS REQUIREMENTS, COUNCIL MAY SEEK COMPENSATION

ABOLISHMENT:

- 1. ABOLISH AND REMOVE ALL DISUSED ITEMS, EXISTING ASPHALT PAVEMENT, DISUSED PITS, DRAINS, DISUSED ELECTRICAL, LIGHTING AND OTHER ITEMS TO BE ABOLISHED.
2. ALL TREES THAT ARE TO BE ABOLISHED ARE TO HAVE THEIR ROOTS GRUBBED OUT TO 300mm BELOW FORMATION LEVEL.
3. ANY ITEMS THAT CAN BE SALVAGED/RE-USED SHALL BE DISMANTLED/ABOLISHED CAREFULLY AND OFFERED TO THE PRINCIPAL FIRSTLY FOR RE-USE. SHOULD THE PRINCIPAL NOT REQUIRE THESE ITEMS, THEY SHALL BE CONNECT THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM SITE.
4. ALL TERMINATIONS ARE TO BE MADE IN ACCORDANCE WITH AUTHORITIES, SERVICES, REQUIREMENTS. RESULTANT EXCAVATIONS TO BE BACKFILLED WITH CRUSHED ROCK WHERE LOCATED BENEATH PAVEMENTS, KERB AND CHANNEL AND WITH IN 500mm OF THESE, ELSEWHERE BACKFILLED WITH SELECTED MATERIAL.

SITE PREPERATION:

- 1. STRIP WHOLE SITE OF VEGETATION, TOPSOIL AND OTHER DELETERIOUS MATTER. EXCAVATE TO APPROVED SUBGRADE. THE DEPTH OF EXCAVATION SHALL BE AT LEAST 300mm BELOW EXISTING VEGETATED SURFACE LEVELS OR FORMATION LEVEL WHICHEVER IS GREATER. PROOF ROLL AND COMPACT THE SUBGRADE IN THE PRESENCE OF THE SUPERINTENDENT. ANY SOFT OR UNSTABLE AREAS DETECTED SHALL BE EXCAVATED OUT AND REPLACED WITH BACKFILL MATERIAL SPECIFIED IN PAVEMENT NOTE FOR FILLING AND COMPACTION REFER TO EXCAVATION, FILLING, COMPACTION TOPSOIL NOTE.

KERBS:

- 1. REFER TO ARCHITECT AND LANDSCAPE ARCHITECT FOR FINISH TO ALL CONCRETE KERBING.
2. THE FINAL COLOUR IS TO BE APPROVED BY THE CLIENT VIA SAMPLE PROCESS THROUGH THE PROJECT MANAGER.

SUBGRADE PREPARATION NOTES AND PAVEMENT CONSTRUCTION SEQUENCE:

- 1. EXCAVATE IN AREA NEEDED TO A LEVEL REQUIRED TO CONSTRUCT NEW PAVEMENT AND FOR MINIMUM REMOVAL OF ALL TOP SOIL AND/OR REMOVAL OF ALL SILTY SAND. SILTY CLAY OR MATERIAL NOT DEEMED SUITABLE FOR REUSE.
2. COMPACT SUB-GRADE TO 95% MODIFIED MAXIMUM DRY DENSITY WITH MIN. 4 PASSES EACH WAY OF A VIBRATING SMOOTH WHEELED ROLLER OF NOT LESS 10 TONNE/M.
3. REMOVE ANY SOFT SPOTS DETECTED AND REPLACE WITH CLASS 4, 40mm FCR COMPACTED TO 95% MODIFIED RELATIVE COMPACTION.
4. PLACE SOUTHERN GEOSYNTHETICS DUX W155 GEOTEXTILE ON SUBGRADE IN ACCORDANCE WITH THE DISTRIBUTORS RECOMMENDATIONS AND DETAILS.
5. SPREAD NOMINAL 150mm THICKNESS OF CRUSHED ROCK AS DETAILED AS CAPPING LAYER AND PAVEMENT SUBBASE WITH SPREADING EQUIPMENT NOT ACCESSING THE GEOTEXTILE.
6. COMPACTED SUBBASE MATERIAL AS DETAILED AND PRECEED WITH NEXT PAVEMENT LAYER.
7. OBTAIN COMPACTION TESTS OF SUBGRADE AND EACH BASE LAYER PLACED FROM NATA REGISTERED LABORATORY. MINIMUM NUMBER OF TESTS No. 1 PER 50m² OR No. 3 PER LAYER (WHICHEVER IS GREATER). PROVIDE RESULTS FOR EACH TEST LAYER TO SUPERINTENDENT AND ENGINEER FOR REVIEW PRIOR TO PLACEMENT OF THE NEXT PAVEMENT LAYER.

DRAINAGE NOTES:

- 1. REFER EXISTING CONDITIONS, ARCHITECTS AND OTHER CONSULTANTS DRAWINGS, GEOTECHNICAL REPORT AND SPECIFICATION FOR ADDITIONAL NOTES AND DETAILS.& REINSTATE TO NEAREST JOINT
2. REFER TO SITE PLAN AND ARCHITECTS DRAWINGS FOR SURVEY LEVELS. CONTRACTOR TO VERIFY LEVELS PRIOR TO COMMENCEMENT OF WORKS.
3. ALL STORMWATER PIPES TO BE UPVC CLASS 'SEH' SOLVENT WELDED U.N.O.
4. MINIMUM PIPE GRADE ARE AS FOLLOWS U.N.O.
5. MINIMUM COVER (CONTRACTOR TO VERIFY ON SITE)
6. THE LOCATION, LEVELS AND GRADES OF ALL PROPOSED AND EXISTING SERVICES SHALL BE CHECKED BY CONTRACTOR PRIOR OR COMMENCING ANY WORKS.
7. THE DISCHARGE FROM THE SITE IS TO BE VERIFIED BY THE BUILDING PERMIT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
8. CONNECT PIPES TO STREET SERVICES TO LOCAL AUTHORITY REQUIREMENTS. PIPES TO BE UPVC CLASS 12 IN ROAD RESERVE.
9. WHERE DOWNPIPES ARE EXPOSED TO EXTERNAL DAMAGE, SUITABLE PROTECTION IS TO BE PROVIDED AS PER ARCHITECTURAL REQUIREMENTS.
10. CARE MUST BE TAKEN WHEN BREAKING INTO EXISTING SERVICES. MAKE GOOD ALL DAMAGED WORKS INCLUDING PAVEMENTS AND SURFACE WORKS TO AUTHORITIES REQUIREMENTS.
11. IF PAVEMENT IS TO BE CONSTRUCTED PRIOR TO THE INSTALLATION OF SERVICES THEN CONDUITS ARE TO BE INSTALLED WHERE NECESSARY AND SYSTEM TO BE FULLY TESTED PRIOR TO PAVEMENT INSTALLATION.
12. TRENCHES TO BE FILLED WITH CLASS 2 F.C.R. OR OTHER APPROVED MATERIAL COMPACTED IN 150mm MAXIMUM THICK LAYERS TO A MINIMUM 96% DENSITY.
13. STORMWATER SYSTEM TO BE FULLY SEALED AND TESTED PRIOR TO FINAL COMPLETION. (CONTRACTOR TO ISSUE VERIFICATION TO ARCHITECT)
14. ANY AMENDMENTS TO PROPOSED SYSTEM ARE TO BE APPROVED BY THE ENGINEERS PRIOR TO COMMENCEMENT OF WORKS.
15. PITS AND SERVICES TO BE SUITABLY LOCATED SO THAT ADJACENT FOOTING STRUCTURE DOES NOT INDUCE LOADS ON SERVICES OR FOOTING.
17. STEP IRONS TO BE INSTALLED IN PITS GREATER THEN 900mm IN DEPTH TO VIC ROADS REQUIREMENTS AS A MINIMUM.
18. CONTRACTOR TO CO-ORDINATE WITH EXISTING AND NEW SERVICES AND ENSURE NO CLASHES OCCUR.
19. CONTRACTOR TO INSTALL ADDITIONAL CLEAN FILL TO SUIT COVER AND FALL REQUIREMENTS.
20. ALL PITS AND I.O.'S ARE TO BE FITTED WITH SECURITY MEASURES TO ARCHITECTURAL DETAILS.
21. ALL PIPEWORK CONNECTION DOWNPIPES ARE BY OTHERS AND CONNECTED TO MAIN DRAINAGE SYSTEM AT MINIMUM GRADE AS NOTED. REFER TO ARCHITECT FOR LOCATIONS OF DOWNPIPES.
22. ALL WORKS ARE TO BE IN ACCORDANCE WITH AUTHORITY REQUIREMENTS. CONTRACTOR TO CO-ORDINATE WITH AUTHORITY AND INCLUDE ALL REQUIREMENTS INTO WORKS.
23. CONTRACTOR TO PROVIDE SUITABLE TEMPORARY DRAINAGE SYSTEM DURING WORKS. SUBMISSION OF PROPOSAL TO BE ISSUED TO ARCHITECT PRIOR TO COMMENCEMENT OF WORKS.
24. PIT MINIMUM SIZE AS PER FOLLOWS;
25. ALL EXCAVATIONS FOR DRAINAGE SYSTEM ARE TO BE INSTALLED IN ACCORDANCE WITH REGULATORY AUTHORITIES REQUIREMENTS, INCLUSIVE OF THE CODE OF PRACTICE FOR SAFETY REGULATIONS IN TRENCHING OPERATIONS:

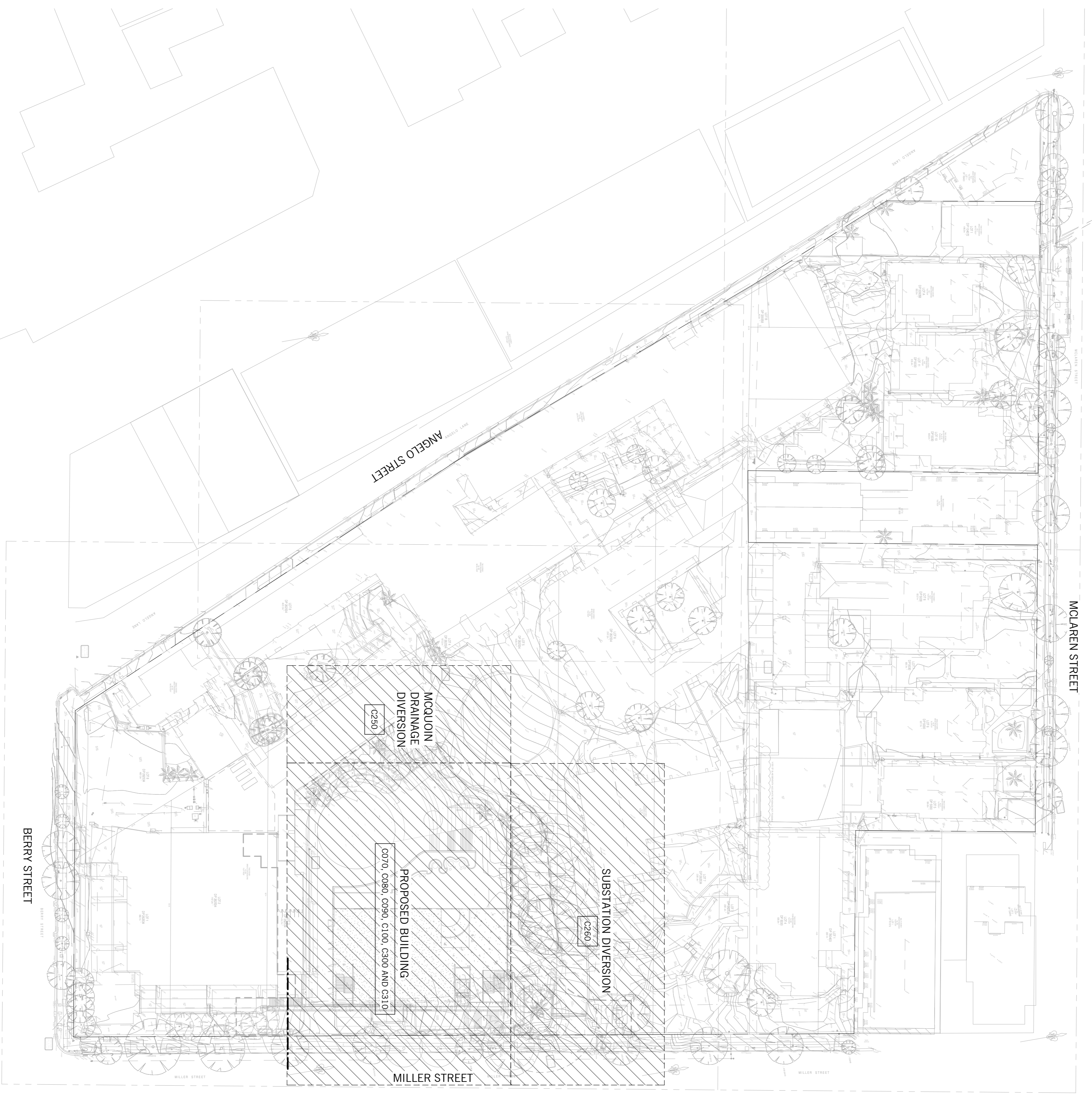
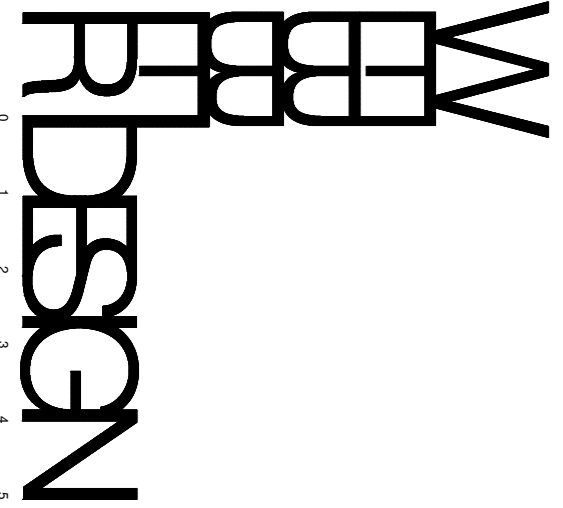
Table with 6 columns: MAR, K, SIZE, COVER TYPE, COVER CLASS, COVER LEVEL, REMARKS. Contains stormwater pit schedule data for pits P1 through P21.

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Table with 5 columns: Rev., Description, Eng., Draft, Date. Contains revision history for construction issue.

CONSTRUCTION ISSUE
Status
CIVIL DRAWING
WEEKLY DESIGN STRUCTURAL ENGINEERING
MELBOURNE OFFICE: LEVEL 2, 31 QUEEN STREET MELBOURNE, VIC. AUSTRALIA 3000
SYDNEY OFFICE: SUITE 301 LEVEL 3, 19A BOUNDARY STREET ROSHULTERS BAY, NSW, AUSTRALIA 2011

MONTE SANT ANGELO MERCY COLLEGE
128 MILLER ST, N. SYDNEY
CIVIL NOTES
DATE: AUGUST 20
DESIGNED BY: GP
CHECKED BY: GP
SCALES AT A1: 1:100
DRAWN BY: GP
APPROVED BY: PW
JOB No.: 19133
DRAWING No.: C001
REV: C1



SITE PLAN
SCALE: 1:500

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|------|--------------------------|------|-------|----------|
| P1 | FOR COORDINATION | GP | GP | 28.08.20 |
| P2 | FOR COORDINATION | GP | GP | 11.09.20 |
| P3 | ISSUED FOR PRICING | GP | GP | 16.09.20 |
| T1 | ISSUED FOR PRICING | GP | GP | 16.10.20 |
| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |

SERIES
CONSTRUCTION ISSUE
CIVIL DRAWING

STRUCTURAL ENGINEERING
 HEAD OFFICE: 1/100 QUEEN STREET, SYDNEY NSW 2000
 PHONE: (02) 9250 2488
 FAX: (02) 9250 2489
 EMAIL: info@weberdesign.com.au
 WEBSITE: www.weberdesign.com.au

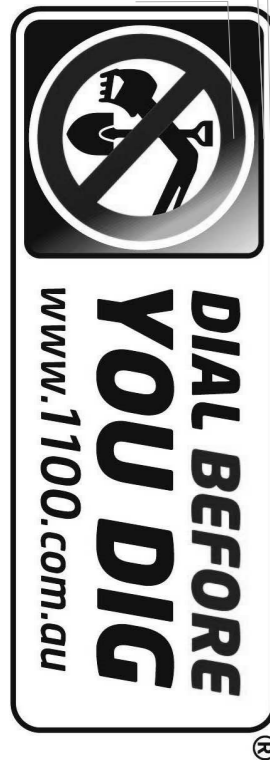
Monte Scientia Project
 PROJECT: MONTE SANT ANGELO MERCY COLLEGE
 128 MILLER ST, N. SYDNEY

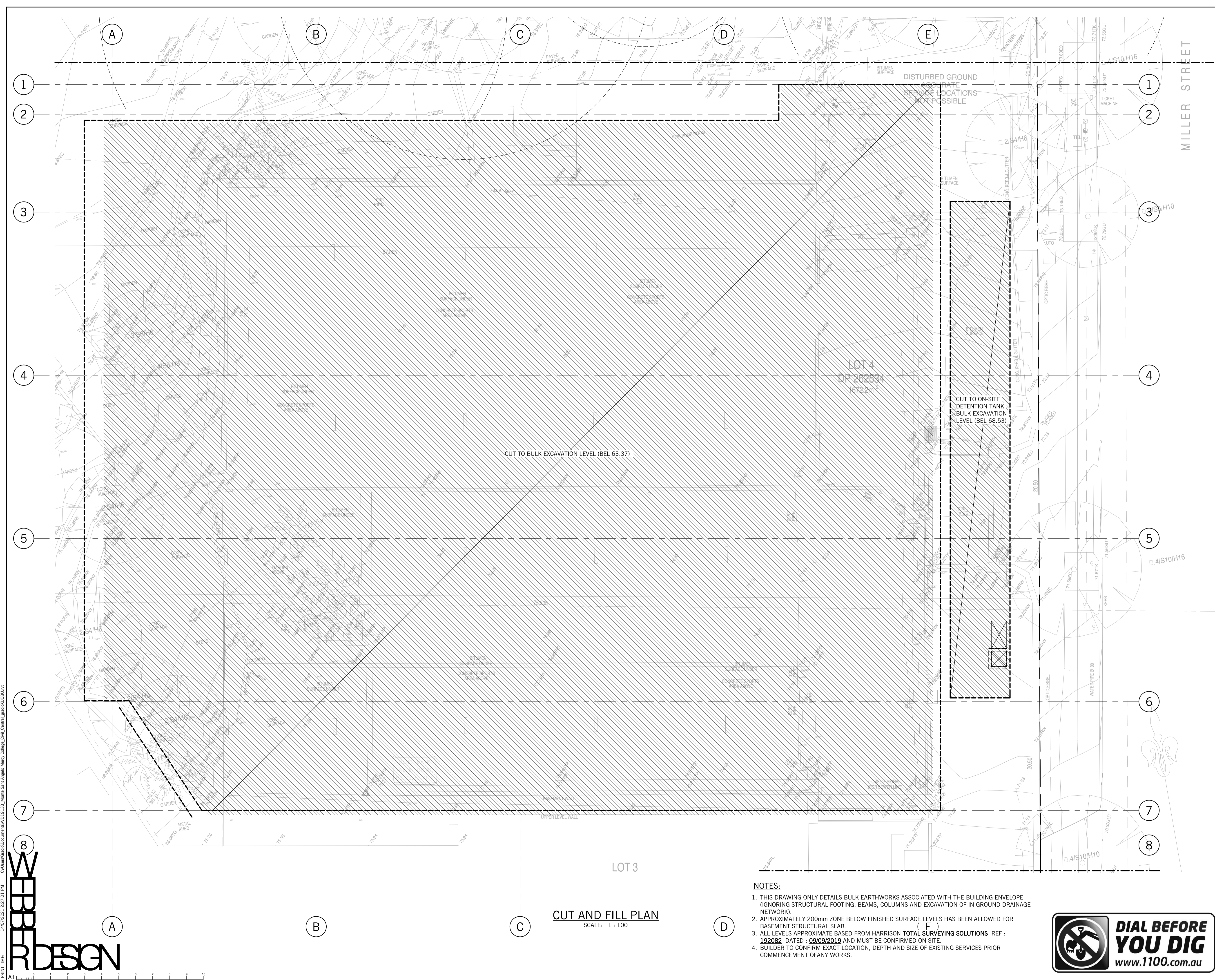
TITLE
SITE PLAN

| DATE | REVISION BY | CHECKED BY |
|-----------|-------------|------------|
| AUGUST 20 | GP | GP |

| SCALE AT A1 | DRAWN BY | APPROVED BY |
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| DRAWING NO. | PROJECT NO. | REV. |
|-------------|-------------|------|
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| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 10.06.21 |

LEGEND

- CUT TO ACHIEVE BULK EXCAVATION LEVEL
- FILL TO ACHIEVE FINISH LEVEL
- TREE PROTECTION ZONE

CONSTRUCTION ISSUE

Status
CIVIL DRAWING

WEBBER DESIGN

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PROJECT
**MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY**

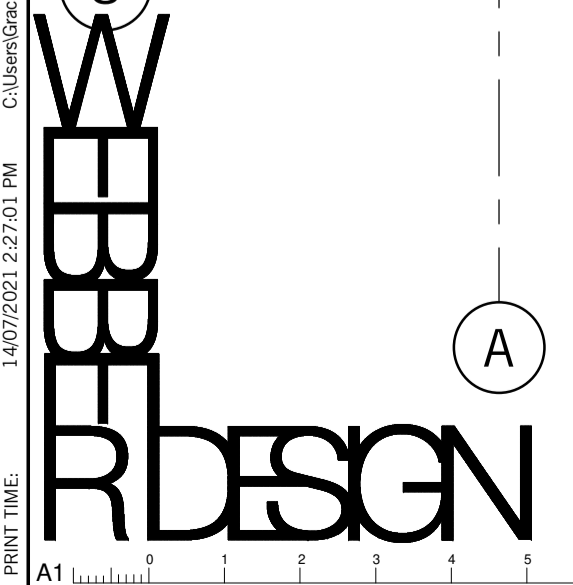
CUT AND FILL PLAN

| | | |
|-----------------------|---------------------|-------------------|
| DATE AUGUST 20 | DESIGNED BY GP | CHECKED BY GP |
| SCALES AT A1 1:100 | DRAWN BY GP | APPROVED BY PW |
| JOB No. 19133 | DRAWING No. C055 | REV. C1 |

- NOTES:**
- THIS DRAWING ONLY DETAILS BULK EARTHWORKS ASSOCIATED WITH THE BUILDING ENVELOPE (IGNORING STRUCTURAL FOOTING, BEAMS, COLUMNS AND EXCAVATION OF IN GROUND DRAINAGE NETWORK).
 - APPROXIMATELY 200mm ZONE BELOW FINISHED SURFACE LEVELS HAS BEEN ALLOWED FOR BASEMENT STRUCTURAL SLAB.
 - ALL LEVELS APPROXIMATE BASED FROM HARRISON **TOTAL SURVEYING SOLUTIONS** REF: **192082** DATED: **09/09/2019** AND MUST BE CONFIRMED ON SITE.
 - BUILDER TO CONFIRM EXACT LOCATION, DEPTH AND SIZE OF EXISTING SERVICES PRIOR COMMENCEMENT OF ANY WORKS.



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CUT AND FILL PLAN
SCALE: 1 : 100

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| T3 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |

| LEGEND | |
|--------|---|
| | SITE BOUNDARY |
| | SEDIMENT FENCE |
| | FENCE / HOARDING |
| | STABILISED SITE ENTRY / EXIT TRUCK WASH / RUMBLE STRIPS (REFER TO DRG. C065 FOR DETAILS.) |
| | STOCKPILE AREA |
| | MESH & GRAVEL INLET FILTER (REFER TO DRG. C065 FOR DETAILS) |
| | CATCH DRAIN |
| | TEMPORARY SUMP & SEDIMENT PUMP |

CONSTRUCTION ISSUE

Status
CIVIL DRAWING

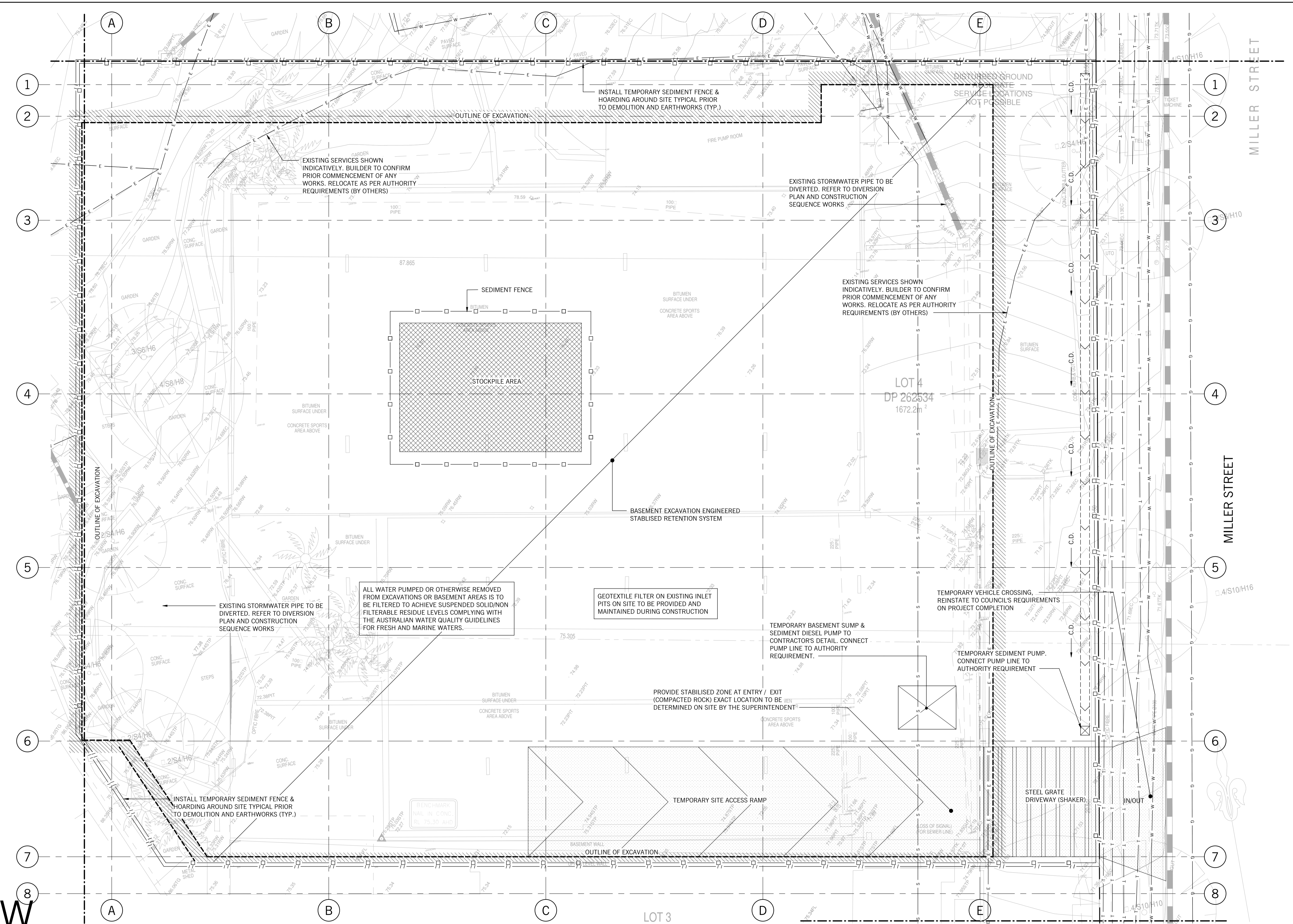
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CLIENT
Monte Scientia Project

PROJECT
MONTE SANT ANGELO MERCY COLLEGE
128 MILLER ST, N. SYDNEY

TITLE
SEDIMENT AND EROSION CONTROL PLAN

| | | |
|-----------------------|---------------------|-------------------|
| DATE AUGUST 20 | DESIGNED BY GP | CHECKED BY GP |
| SCALES AT A1 1:100 | DRAWN BY GP | APPROVED BY PW |
| JOB No. 19133 | DRAWING No. C060 | REV. C1 |

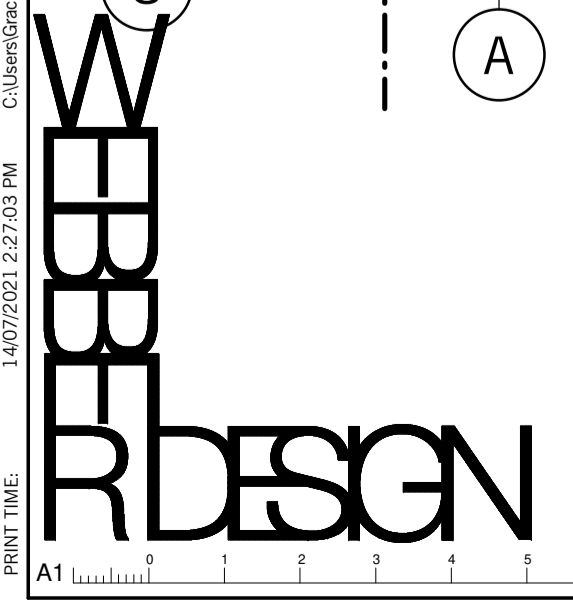


- GENERAL NOTES:**
1. EROSION AND SEDIMENT CONTROLS TO BE MONITORED ON A DAILY BASIS AND MAINTAINED
 2. ROAD AND FOOTPATH TO BE SWEEP DAILY AND PUT SOIL SPILL BEHIND THE SEDIMENT CONTROLS.
 3. ESCP DEVICES ARE TO REMAIN IN PLACE UNTIL 70% OF THE SITE HAS BEEN REVEGETATED.

- EXISTING SERVICES NOTES:**
- BUILDER TO CONFIRM EXACT LOCATION, DEPTH AND SIZE OF EXISTING SERVICES PRIOR COMMENCEMENT OF ANY WORKS.
 - IF ANY PROPOSED DRAINAGE SYSTEM INTERSECT WITH EXISTING SERVICES, CONTACT WEBBER DESIGN OFFICE FOR FURTHER ASSESSMENT.



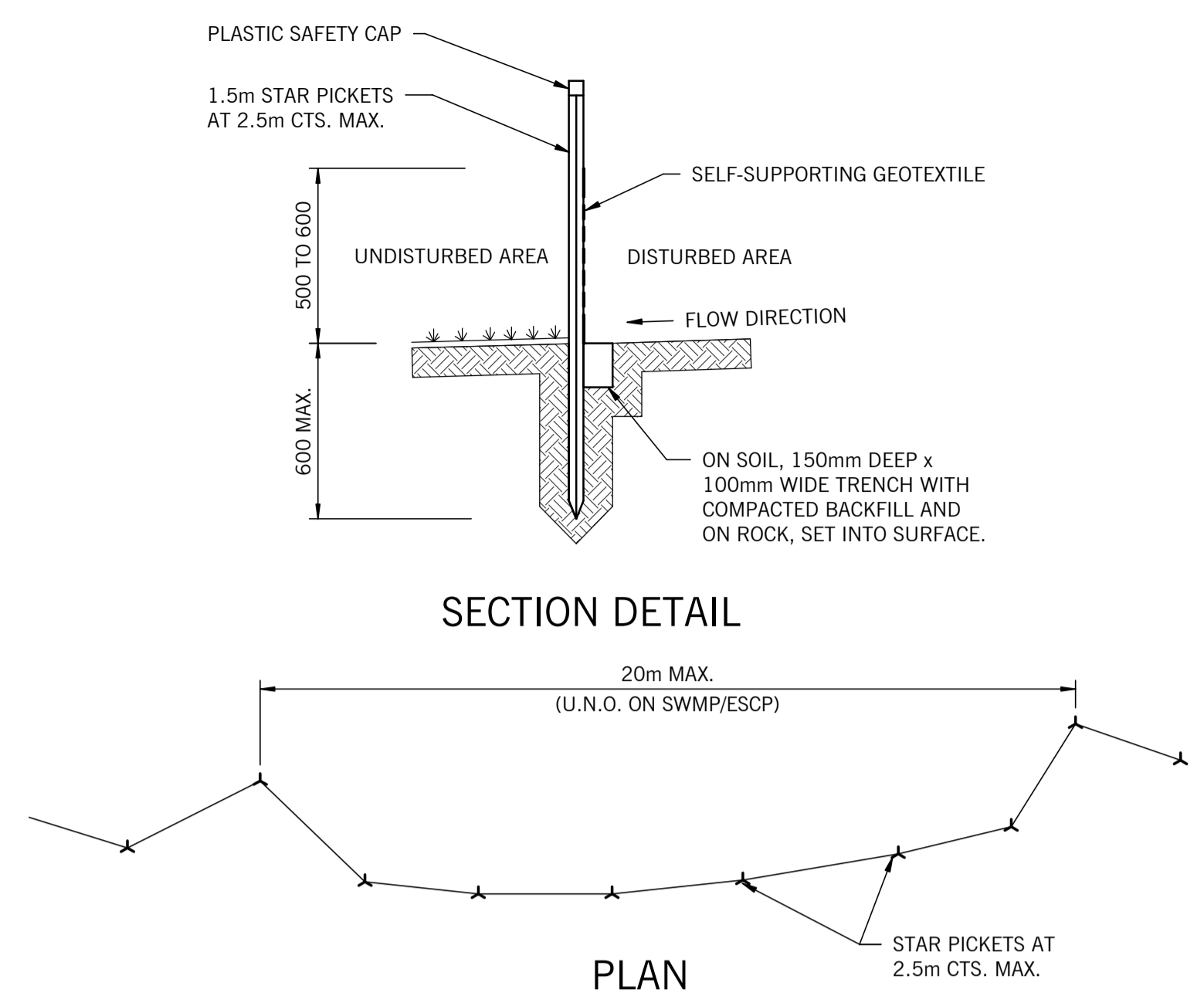
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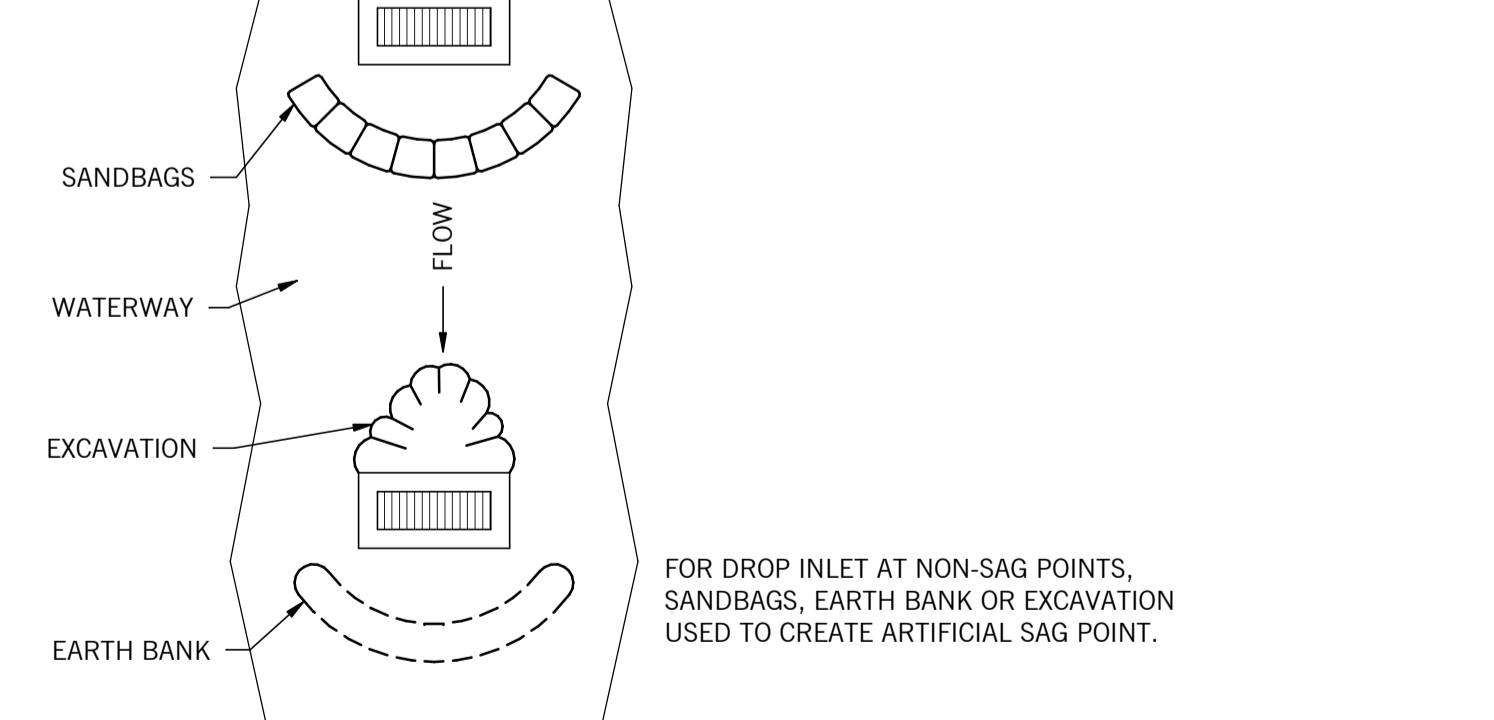
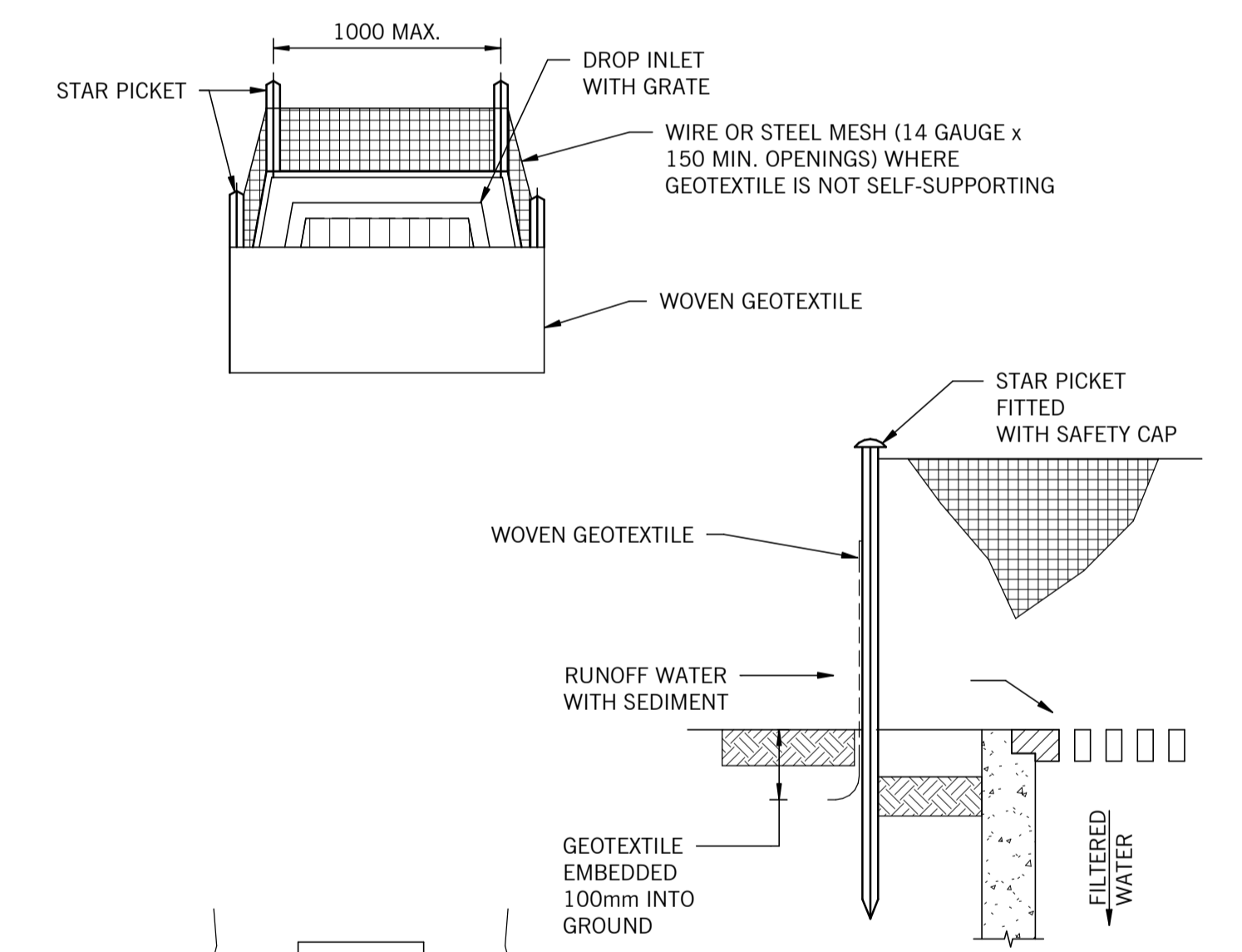
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| T3 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |



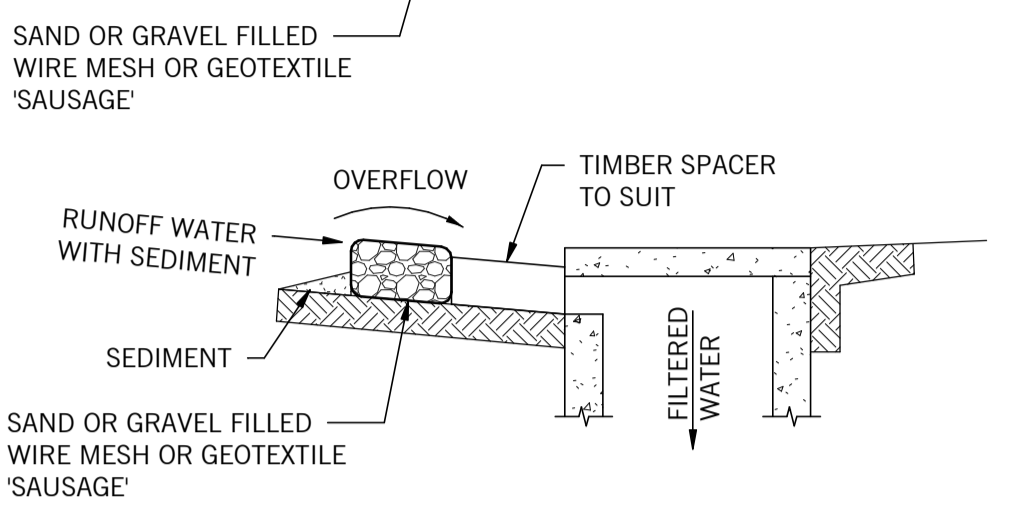
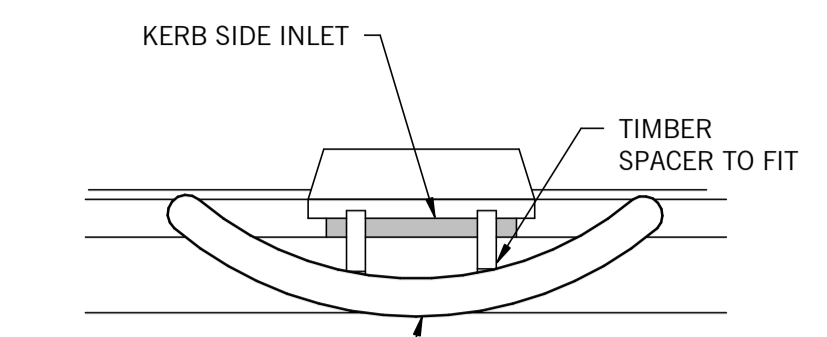
SEDIMENT FENCE NOTES:

- CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN DESIGN STORM EVENT.
- CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO ENTRENCH.
- DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS MAX. AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
- FIX SELF SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURE IT GOES TO THE BASE OF TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
- JOIN SECTION OF FABRIC AT THE SUPPORT POST WITH A 150mm OVERLAP.
- BACKFILL THE TRENCH OVER BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



GEOTEXTILE INLET FILTER NOTES:

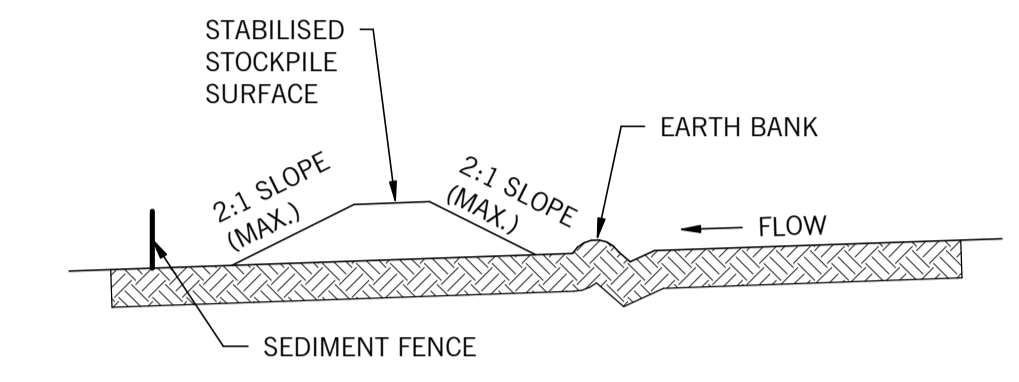
- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
- FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOTEXTILE, REDUCE THE PICKET SPACING TO 1m CENTRES.
- IN WATERWAYS, ARTIFICIAL SAG POINT CAN BE CREATED WITH SANDBAGS OR EARTH AS SHOWN IN THE DRAWING.
- DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.



NOTE:
THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN AN APPROVED SWMP/ESCP.

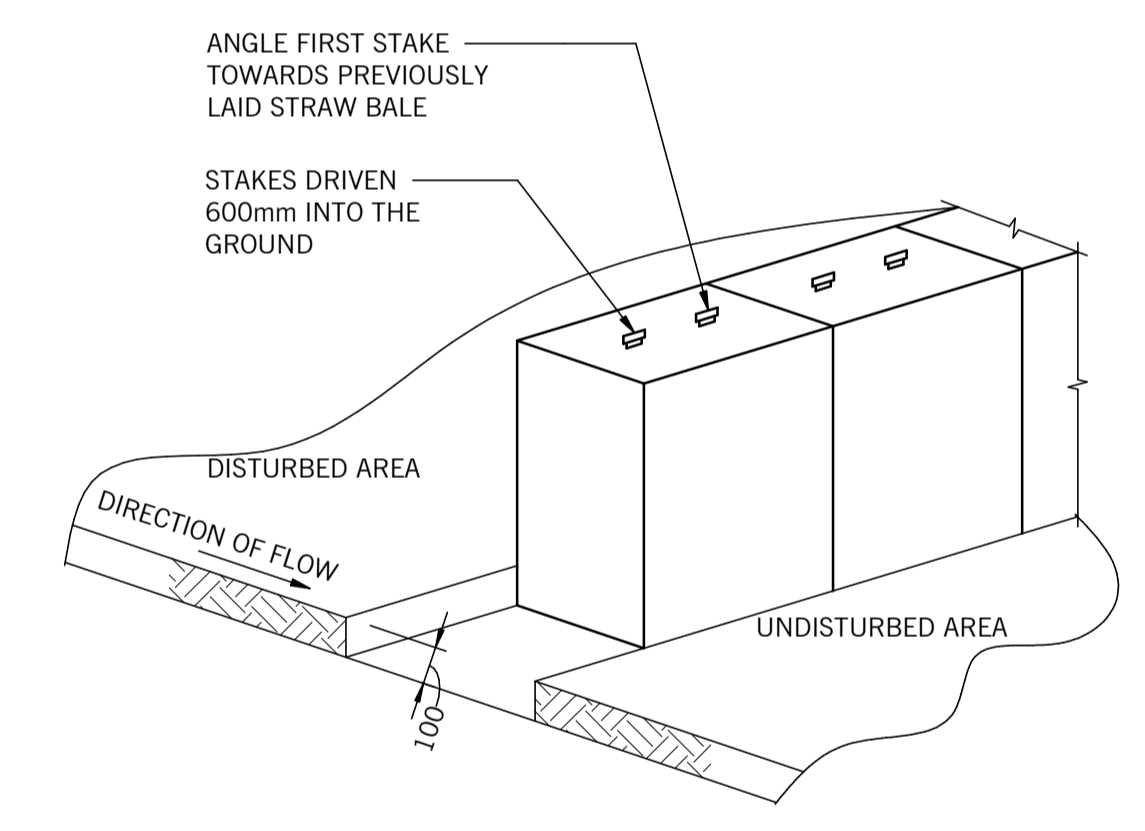
MESH AND GRAVEL INLET FILTER SEDIMENT SOCK) NOTES:

- INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
- FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND HALF FILL IT WITH 25mm TO 50mm GRAVEL OR CLEAN SAND.
- FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
- PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED FIRMLY ABUTTING EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.



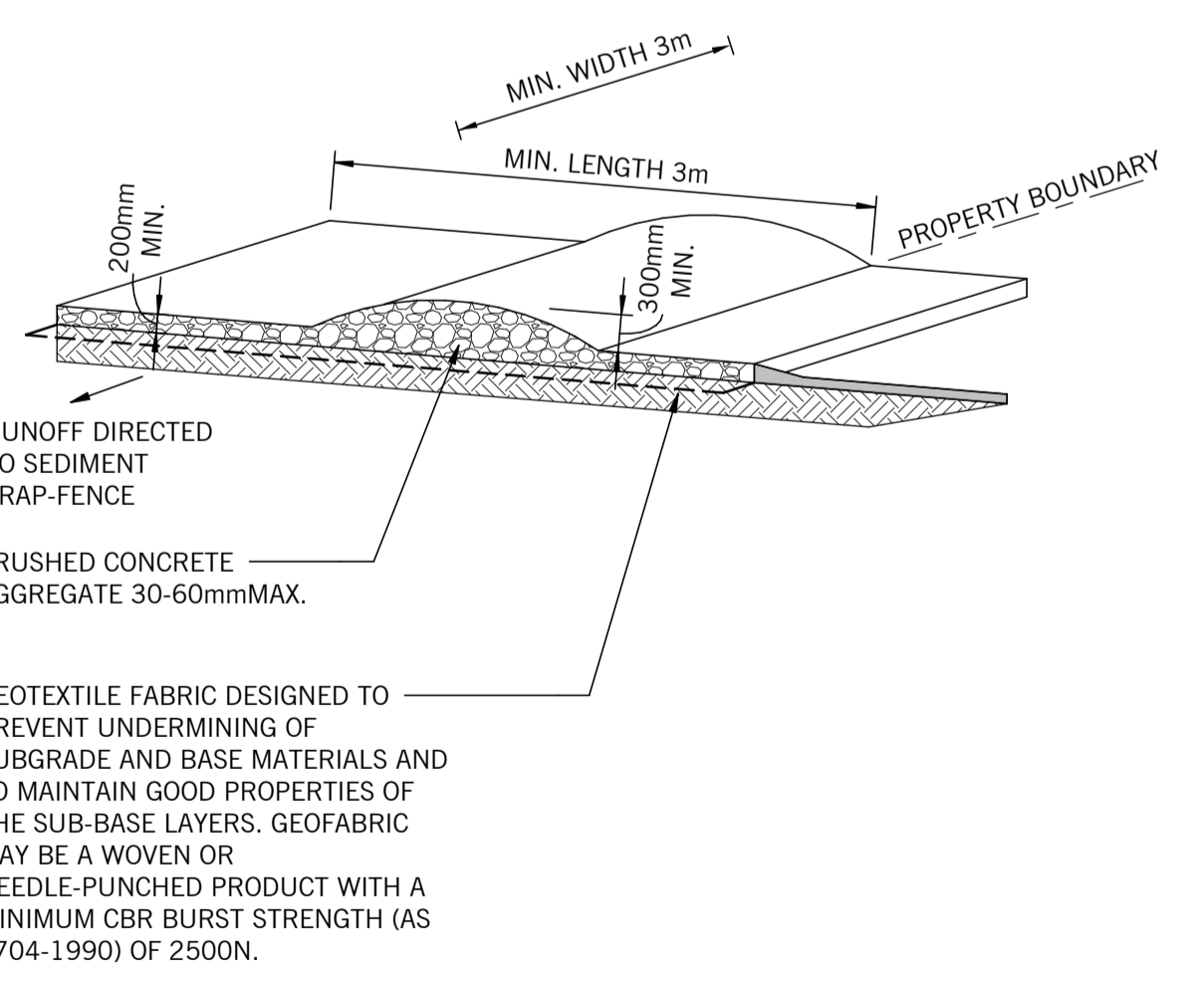
STOCKPILES NOTES:

- PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
- CONSTRUCTION ON THE CONTOURS AS LOW, FLAT, ELONGATED MOUNDS.
- WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m HEIGHT.
- WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISED FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
- CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (REFER SEDIMENT FENCE NOTE) 1 TO 2 METRES DOWNSLOPE.



STRAW BALE SEDIMENT FILTER NOTES:

- STAKE TO BE EITHER TAR COATED STAR OR 50 x 50 HARDWOOD.
- RETURN STRAW BALES EVERY 20 METRES.
- MINIMUM NUMBER OF BALES TO BE USED AT ALL TIMES IS 4.



STABILISED SITE ACCESS NOTES:

- STRIP AT LEAST 150mm OF TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
- COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
- CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING CRUSHED CONCRETE AGGREGATE.
- ENSURE THE STRUCTURE IS AT LEAST 3m LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3m WIDE.
- WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCES.

CONSTRUCTION ISSUE

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PROJECT
**MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY**

TITLE
**SEDIMENT AND EROSION
CONTROL TYPICAL DETAILS**

| | | |
|----------------------|---------------------|-------------------|
| DATE AUGUST 20 | DESIGNED BY GP | CHECKED BY GP |
| SCALES AT A1 1:20 | DRAWN BY GP | APPROVED BY PW |
| JOB No. 19133 | DRAWING No. C065 | REV. C1 |

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| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| T4 | REVISED AS CLOUDED | GP | GP | 23.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 30.06.21 |
| C2 | REVISED AS CLOUDED | GP | GPP | 23.07.21 |

| LEGEND | |
|--------|--|
| | PIT NUMBER |
| | GRATED PIT |
| | JUNCTION PIT |
| | EXISTING SIDE ENTRY PIT |
| | INSPECTION OPENING |
| | GRATED INLET |
| | FALL DIRECTION |
| | STRIP DRAIN |
| | STORMWATER PIPE |
| | 100 DIA. AGRICULTURAL DRAIN LAID TO 1:100 FALL |
| | PUMP OUT FLOW DRAIN LINE |
| | RISING MAIN LINE |
| | SPOON DRAIN |
| | NEW PAVEMENT |
| | NEW LANDSCAPING |
| | NATURAL SURFACE LEVEL |
| | EXISTING KERB & CHANNEL |
| | NEW KERB & CHANNEL TO COUNCIL REQUIREMENTS |

CONSTRUCTION ISSUE

Status
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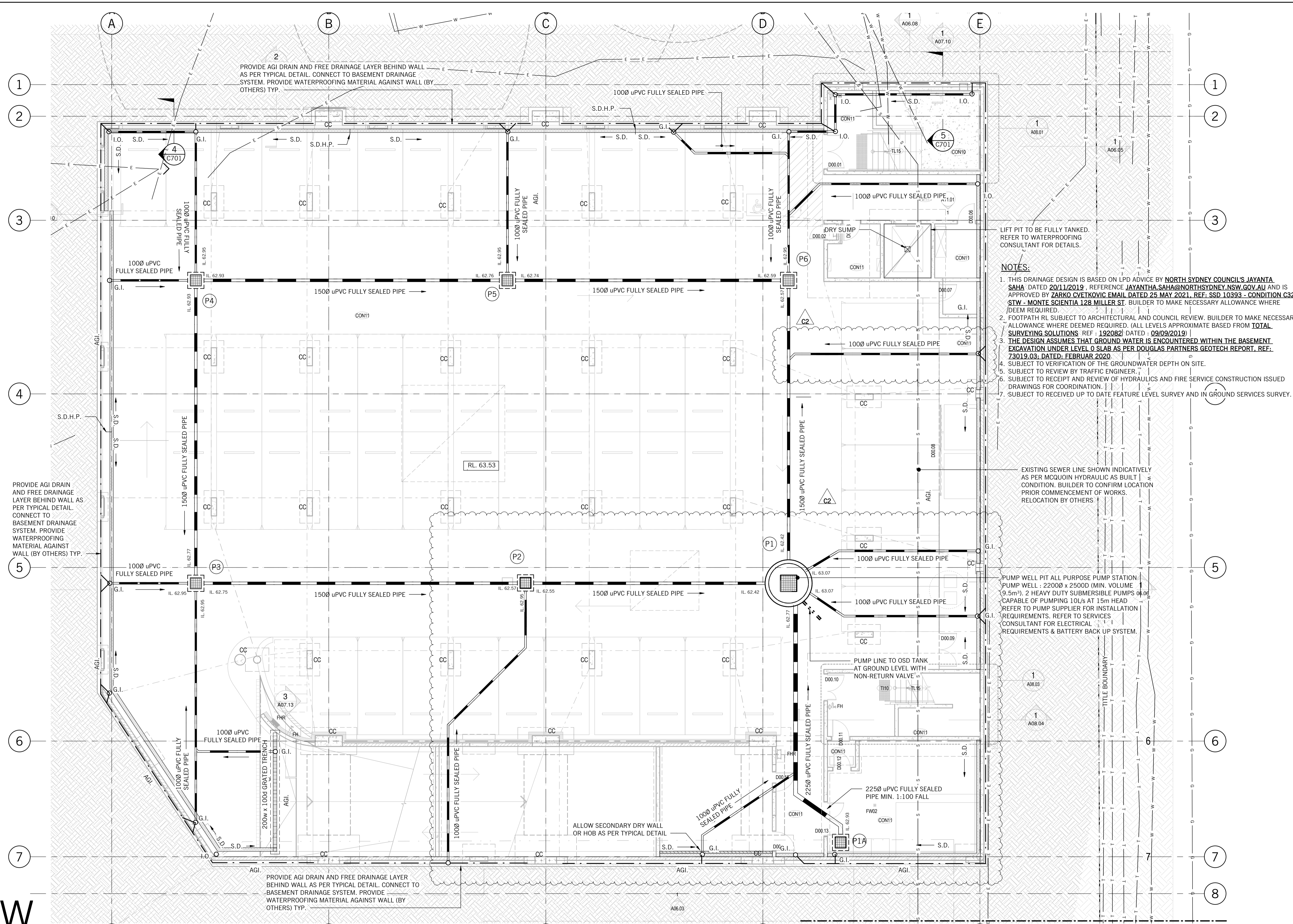
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PROJECT
**MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY**

LEVEL 0 - DRAINAGE PLAN

| DATE | DESIGNED BY | CHECKED BY |
|--------------|-------------|-------------|
| AUGUST 20 | GP | GP |
| SCALES AT A1 | DRAWN BY | APPROVED BY |
| 1:100 | GP | PW |
| JOB No. | DRAWING No. | REV. |
| 19133 | C070 | C2 |



- NOTES:**
- THIS DRAINAGE DESIGN IS BASED ON LPD ADVICE BY **NORTH SYDNEY COUNCIL'S JAYANTA SAHA** DATED 20/11/2019, REFERENCE **JAYANTHA SAHA@NORTHSYDNEY.NSW.GOV.AU** AND IS APPROVED BY **ZARKO CVETKOVIC** EMAIL DATED 25 MAY 2021, REF: **SSD 10393 - CONDITION C32 STW - MONTE SCIENTIA 128 MILLER ST.** BUILDER TO MAKE NECESSARY ALLOWANCE WHERE DEEM REQUIRED.
 - FOOTPATH RL SUBJECT TO ARCHITECTURAL AND COUNCIL REVIEW. BUILDER TO MAKE NECESSARY ALLOWANCE WHERE DEEMED REQUIRED. (ALL LEVELS APPROXIMATE BASED FROM **TOTAL SURVEYING SOLUTIONS** REF: **192082** DATED: **09/09/2019**)
 - THE DESIGN ASSUMES THAT GROUND WATER IS ENCOUNTERED WITHIN THE BASEMENT EXCAVATION UNDER LEVEL 0 SLAB AS PER **DOUGLAS PARTNERS GEOTECH REPORT, REF: 73019.03** DATED: FEBRUAR 2020.
 - SUBJECT TO VERIFICATION OF THE GROUNDWATER DEPTH ON SITE.
 - SUBJECT TO REVIEW BY TRAFFIC ENGINEER.
 - SUBJECT TO RECEIPT AND REVIEW OF HYDRAULICS AND FIRE SERVICE CONSTRUCTION ISSUED DRAWINGS FOR COORDINATION.
 - SUBJECT TO RECEIVED UP TO DATE FEATURE LEVEL SURVEY AND IN GROUND SERVICES SURVEY.

NOTES:
GROUNDWATER RECHARGE WILL NOT BE EXPECTED TO BE ABOVE GROUNDWATER TABLE REFERED ON GEOTECH REPORT PREPARED BY **DOUGLAS PARTNERS GEOTECH REPORT, REF. 73019.03, DATED: FEBRUAR 2020** AS PER **DOUGLAS PARTNERS** ADVICE. **ACONEX REFERENCE: DP-GCOR-000040.**
ONCE EXCAVATION IS COMPLETE AND PRIOR TO CONTINUED CONSTRUCTION WORKS OBTAIN ADDITIONAL SITE TESTING FROM THE PROJECT GEOTECHNICAL ENGINEER TO VERIFY THE GROUND WATER DESIGN LEVEL. SHOULD THE DESIGN GROUND WATER TABLE EXTEND ABOVE THE LOWEST BASEMENT LEVELS CONTACT WEBBER DESIGN FOR ADVICE PRIOR TO PROCEED, REVISED WATERPROOFING AND RELIEF SYSTEM DETAILS MAY BE REQUIRED.



- EXISTING SERVICES NOTES:**
- BUILDER TO CONFIRM EXACT LOCATION, DEPTH AND SIZE OF EXISTING SERVICES PRIOR COMMENCEMENT OF ANY WORKS.
 - IF ANY PROPOSED DRAINAGE SYSTEM INTERSECT WITH EXISTING SERVICES, CONTACT WEBBER DESIGN OFFICE FOR FURTHER ASSESSMENT.

REFER TO SHEET C001 FOR PIT SCHEDULE

LEVEL 0 - DRAINAGE PLAN
SCALE: 1 : 100

WEBBER DESIGN

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| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |

| LEGEND | |
|-----------------------------|--|
| (Pxx) | PIT NUMBER |
| [Grid Symbol] | GRATED PIT |
| [Junction Symbol] | JUNCTION PIT |
| [Diagonal Line Symbol] | EXISTING SIDE ENTRY PIT |
| I.O. O | INSPECTION OPENING |
| G.I. O | GRATED INLET |
| [Arrow Symbol] | FALL DIRECTION |
| [Strip Symbol] | STRIP DRAIN |
| [Pipe Symbol] | STORMWATER PIPE |
| [Dashed Line Symbol] | 100 DIA. AGRICULTURAL DRAIN LAID TO 1:100 FALL |
| [Dotted Line Symbol] | PUMP OUT FLOW DRAIN LINE |
| [Dash-Dash Line Symbol] | RIISING MAIN LINE |
| [Wavy Line Symbol] | SPOON DRAIN |
| [Stippled Area Symbol] | NEW PAVEMENT |
| [Cross-hatched Area Symbol] | NEW LANDSCAPING |
| NSL 34.0x | NATURAL SURFACE LEVEL |
| Ex K&CH | EXISTING KERB & CHANNEL |
| K&CH | NEW KERB & CHANNEL TO COUNCIL REQUIREMENTS |

CONSTRUCTION ISSUE

Status
CIVIL DRAWING



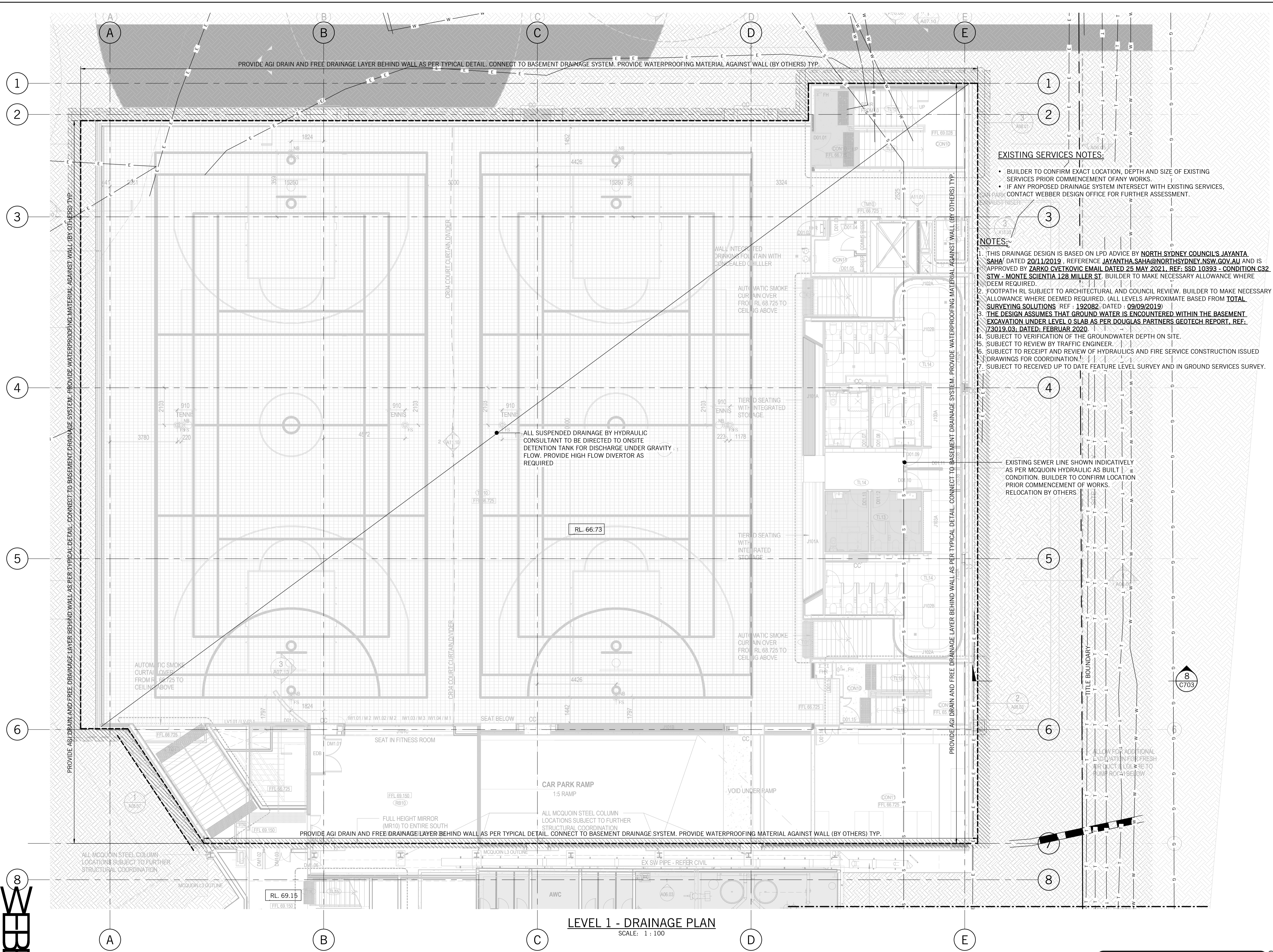
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PROJECT
**MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY**

LEVEL 1 - DRAINAGE PLAN

| DATE | DESIGNED BY | CHECKED BY |
|--------------|-------------|-------------|
| AUGUST 20 | GP | GP |
| SCALES AT A1 | DRAWN BY | APPROVED BY |
| 1:100 | GP | PW |
| JOB No. | DRAWING No. | REV. |
| 19133 | C080 | C1 |



EXISTING SERVICES NOTES:

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- IF ANY PROPOSED DRAINAGE SYSTEM INTERSECT WITH EXISTING SERVICES, CONTACT WEBBER DESIGN OFFICE FOR FURTHER ASSESSMENT.

NOTES:

- THIS DRAINAGE DESIGN IS BASED ON LPD ADVICE BY NORTH SYDNEY COUNCIL'S JAYANTA SAHA DATED 20/11/2019. REFERENCE JAYANTA.SAHA@NORTHSYDNEY.NSW.GOV.AU AND IS APPROVED BY ZARKO CVETKOVIC EMAIL DATED 25 MAY 2021. REF. SSD 10393 - CONDITION C32 STW - MONTE SCIENTIA 128 MILLER ST. BUILDER TO MAKE NECESSARY ALLOWANCE WHERE DEEM REQUIRED.
- FOOTPATH RL SUBJECT TO ARCHITECTURAL AND COUNCIL REVIEW. BUILDER TO MAKE NECESSARY ALLOWANCE WHERE DEEMED REQUIRED. (ALL LEVELS APPROXIMATE BASED FROM TOTAL SURVEYING SOLUTIONS REF: 192082, DATED: 09/09/2019)
- THE DESIGN ASSUMES THAT GROUND WATER IS ENCOUNTERED WITHIN THE BASEMENT EXCAVATION UNDER LEVEL 0 SLAB AS PER DOUGLAS PARTNERS GEOTECH REPORT, REF: 73019.03, DATED: FEBRUAR 2020.
- SUBJECT TO VERIFICATION OF THE GROUNDWATER DEPTH ON SITE.
- SUBJECT TO REVIEW BY TRAFFIC ENGINEER.
- SUBJECT TO RECEIPT AND REVIEW OF HYDRAULICS AND FIRE SERVICE CONSTRUCTION ISSUED DRAWINGS FOR COORDINATION.
- SUBJECT TO RECEIVED UP TO DATE FEATURE LEVEL SURVEY AND IN GROUND SERVICES SURVEY.

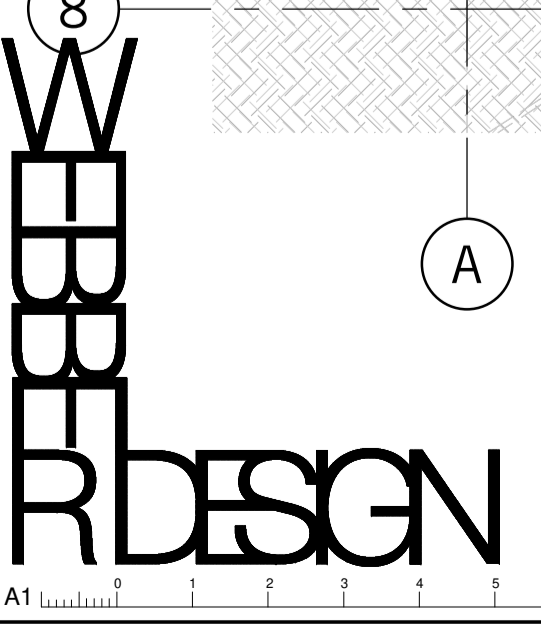
EXISTING SEWER LINE SHOWN INDICATIVELY AS PER MCQUOIN HYDRAULIC AS BUILT CONDITION. BUILDER TO CONFIRM LOCATION PRIOR COMMENCEMENT OF WORKS. RELOCATION BY OTHERS

LEVEL 1 - DRAINAGE PLAN
SCALE: 1 : 100

REFER TO SHEET C001 FOR PIT SCHEDULE



PRINT TIME: 14/07/2021 2:27:13 PM C:\Users\jacob\Documents\19133_Monte_Sant_Angelo_Mercy_College_Civil\Drawings\19133_01.dwg



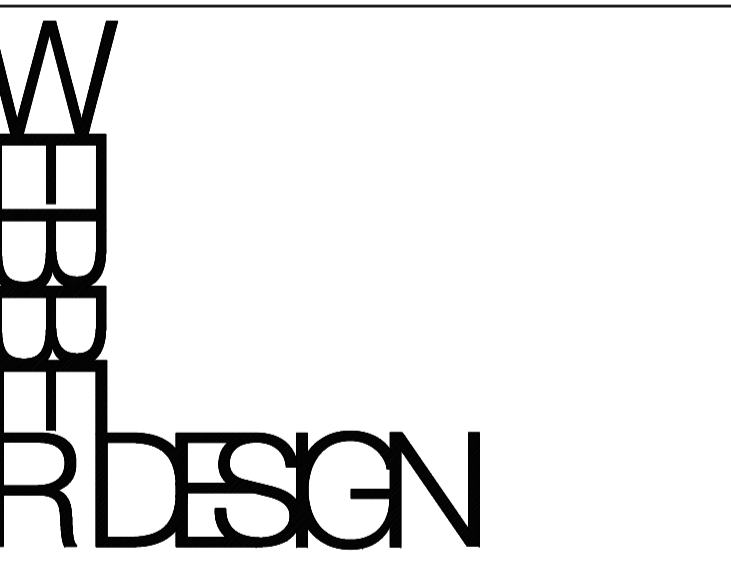
DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS

| Rev. | Description | Eng. | Draft. | Date |
|------|--------------------------|------|--------|----------|
| P1 | FOR COORDINATION | GP | GP | 28.08.20 |
| P2 | FOR COORDINATION | GP | GP | 11.09.20 |
| P3 | ISSUED FOR PRICING | GP | GP | 16.09.20 |
| T1 | ISSUED FOR PRICING | GP | GP | 16.10.20 |
| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | REVISED AS CLOUDED | GP | GP | 17.03.21 |
| T4 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |

| LEGEND | |
|---------------------------|--|
| (Pxx) | PIT NUMBER |
| [Grid Symbol] | GRATED PIT |
| [Junction Symbol] | JUNCTION PIT |
| [Existing Pit Symbol] | EXISTING SIDE ENTRY PIT |
| I.O. O | INSPECTION OPENING |
| G.I. O | GRATED INLET |
| [Arrow] | FALL DIRECTION |
| [Strip Drain Symbol] | STRIP DRAIN |
| [Stormwater Pipe Symbol] | STORMWATER PIPE |
| [100 Dia. Pipe Symbol] | 100 DIA. AGRICULTURAL DRAIN LAID TO 1:100 FALL |
| [Pump Out Line Symbol] | PUMP OUT FLOW DRAIN LINE |
| [Rising Main Line Symbol] | RIISING MAIN LINE |
| [Spoon Drain Symbol] | SPOON DRAIN |
| [New Pavement Symbol] | NEW PAVEMENT |
| [New Landscaping Symbol] | NEW LANDSCAPING |
| NSL 34.01x | NATURAL SURFACE LEVEL |
| Ex K&C/H | EXISTING KERB & CHANNEL |
| K&C/H | NEW KERB & CHANNEL TO COUNCIL REQUIREMENTS |

CONSTRUCTION ISSUE

Status
CIVIL DRAWING



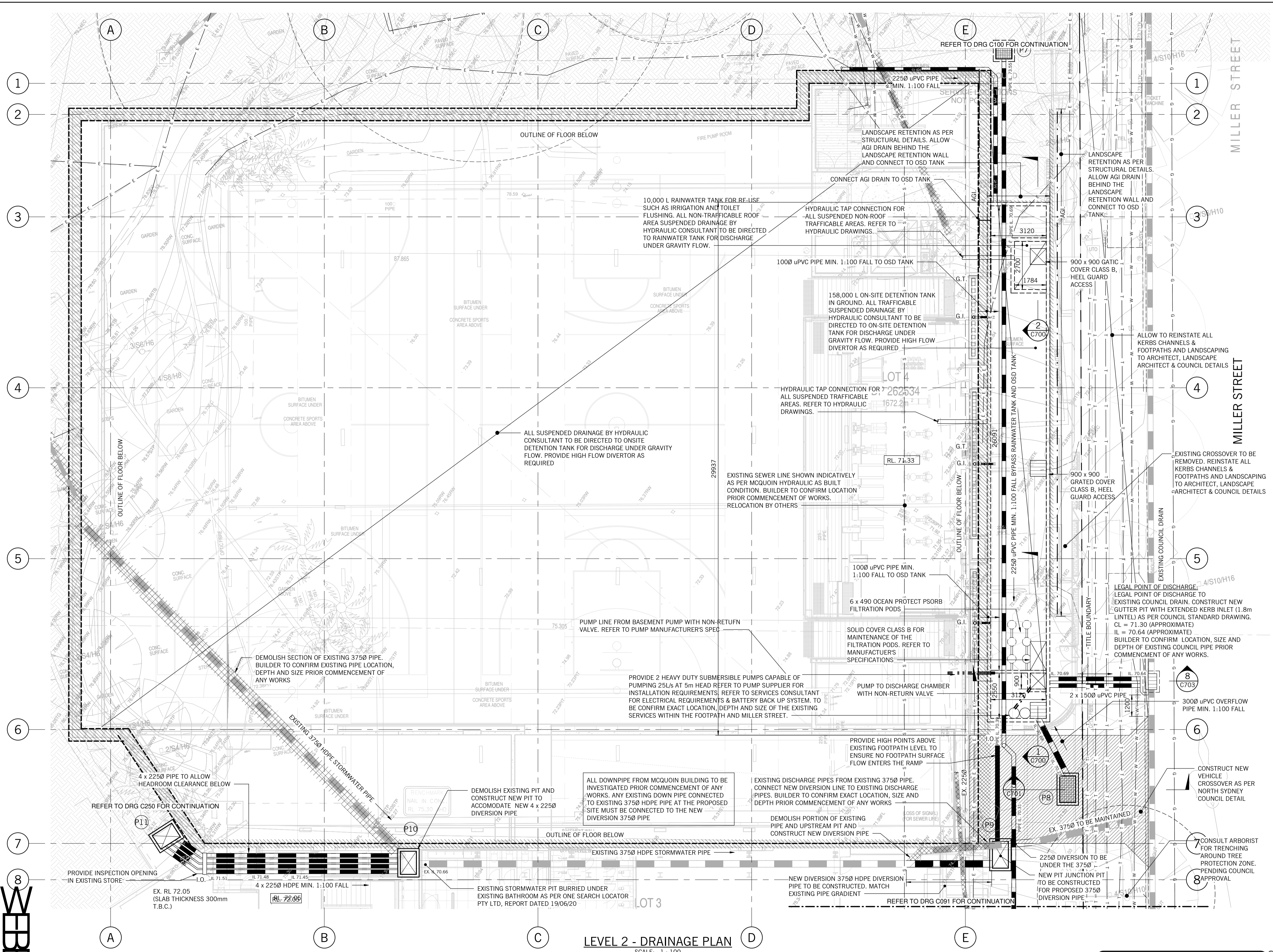
STRUCTURAL ENGINEERING
MELBOURNE OFFICE: LEVEL 2, 31 QUEEN STREET MELBOURNE, VIC. AUSTRALIA 3000
SYDNEY OFFICE: SUITE 301 LEVEL 3, 19A BOUNDARY STREET RUSSELLSBURGH BAY, NSW, AUSTRALIA 2111



PROJECT
**MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY**

LEVEL 2 - DRAINAGE PLAN

| DATE | DESIGNED BY | CHECKED BY |
|-------------|-------------|-------------|
| AUGUST 20 | GP | GP |
| SCALE AT A1 | DRAWN BY | APPROVED BY |
| 1:100 | GP | PW |
| JOB No. | DRAWING No. | REV. |
| 19133 | C090 | C1 |



EXISTING SERVICES NOTES:

- BUILDER TO CONFIRM EXACT LOCATION, DEPTH AND SIZE OF EXISTING SERVICES PRIOR COMMENCEMENT OF ANY WORKS.
- IF ANY PROPOSED DRAINAGE SYSTEM INTERSECT WITH EXISTING SERVICES, CONTACT WEBBER DESIGN OFFICE FOR FURTHER ASSESSMENT.

REFER TO SHEET C001 FOR PIT SCHEDULE

REFER TO SHEET C250 FOR GENERAL AND DESIGN NOTES

LEVEL 2 - DRAINAGE PLAN
SCALE: 1 : 100



DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS

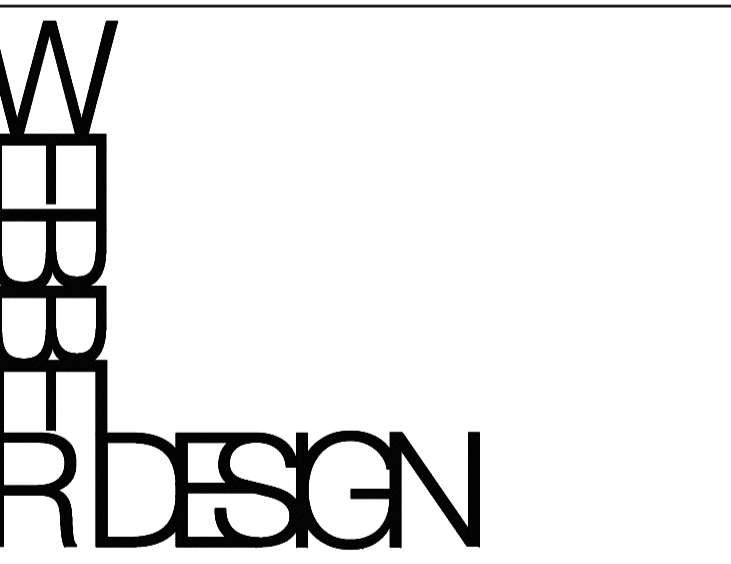
| Rev. | Description | Eng. | Draft. | Date |
|------|--------------------------|------|--------|----------|
| T1 | ISSUED FOR CERTIFICATION | GP | GP | 17.03.21 |
| T2 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |
| C2 | REVISED AS CLOUDED | GP | GP | 06.10.21 |

LEGEND

- PIT NUMBER
- GRATED PIT
- JUNCTION PIT
- EXISTING SIDE ENTRY PIT
- INSPECTION OPENING
- GRATED INLET
- FALL DIRECTION
- STRIP DRAIN
- STORMWATER PIPE
- 100 DIA. AGRICULTURAL DRAIN LAID TO 1:100 FALL
- PUMP OUT FLOW DRAIN LINE
- RISING MAIN LINE
- SPOON DRAIN
- NEW PAVEMENT
- NEW LANDSCAPING
- NATURAL SURFACE LEVEL
- EXISTING KERB & CHANNEL
- NEW KERB & CHANNEL TO COUNCIL REQUIREMENTS

CONSTRUCTION ISSUE

Status
CIVIL DRAWING



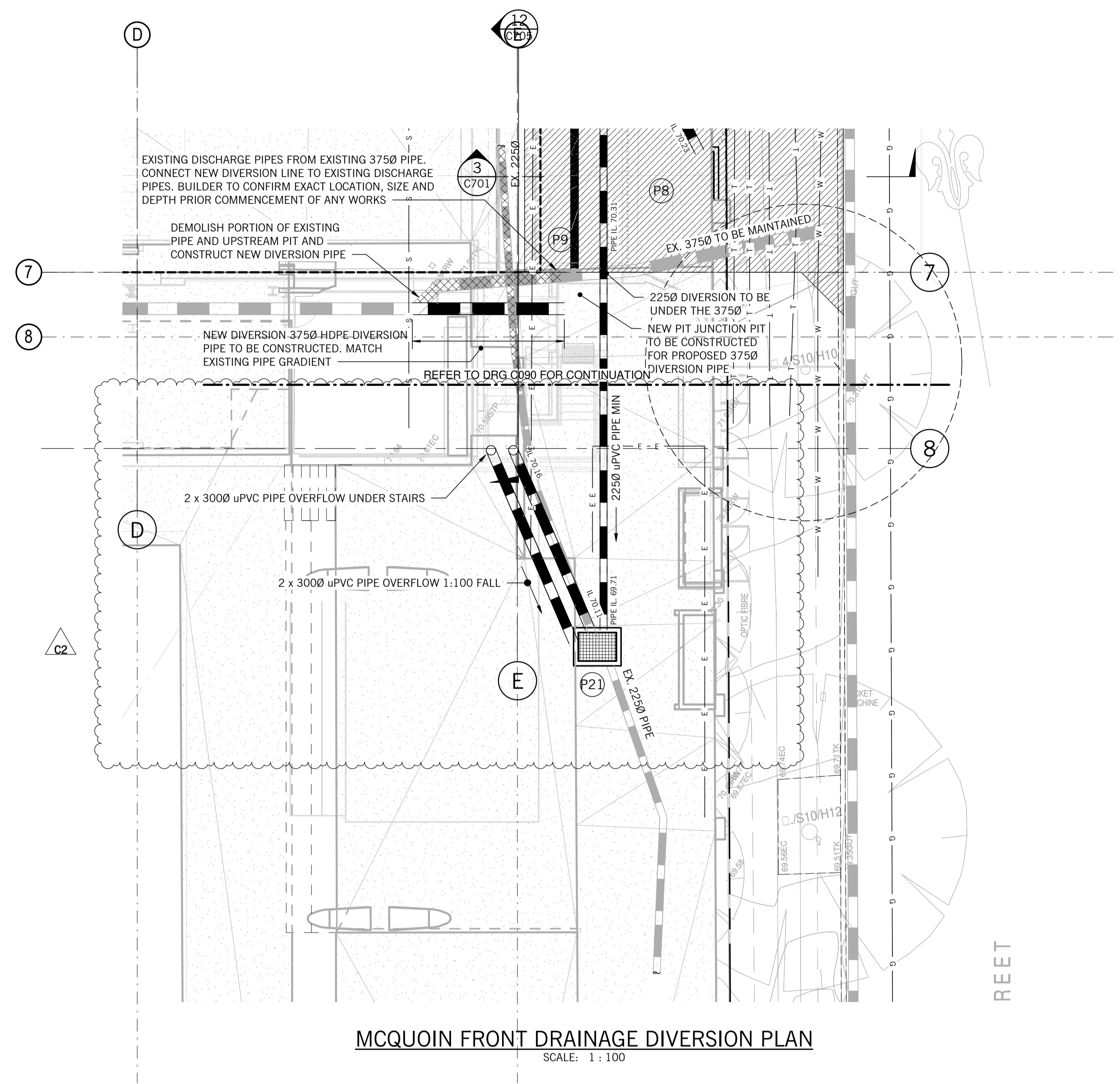
STRUCTURAL ENGINEERING
 MELBOURNE OFFICE: LEVEL 2, 31 QUEEN STREET, MELBOURNE, VIC. AUSTRALIA 3000
 SYDNEY OFFICE: SUITE 301 LEVEL 3, 19A BOUNDARY STREET, RUSSELLS CLIFFS BAY, NSW, AUSTRALIA 2011



PROJECT
**MONTE SANT ANGELO
 MERCY COLLEGE
 128 MILLER ST, N. SYDNEY**

TITLE
**MCQUOIN FRONT
 DRAINAGE DIVERSION
 PLAN**

| | | |
|-----------------------|---------------------|-------------------|
| DATE AUGUST 20 | DESIGNED BY GP | CHECKED BY GP |
| SCALES AT A1 1:100 | DRAWN BY GP | APPROVED BY PW |
| JOB No. 19133 | DRAWING No. C091 | REV. C2 |



MCQUOIN FRONT DRAINAGE DIVERSION PLAN
 SCALE: 1 : 100

REET

NOTES:

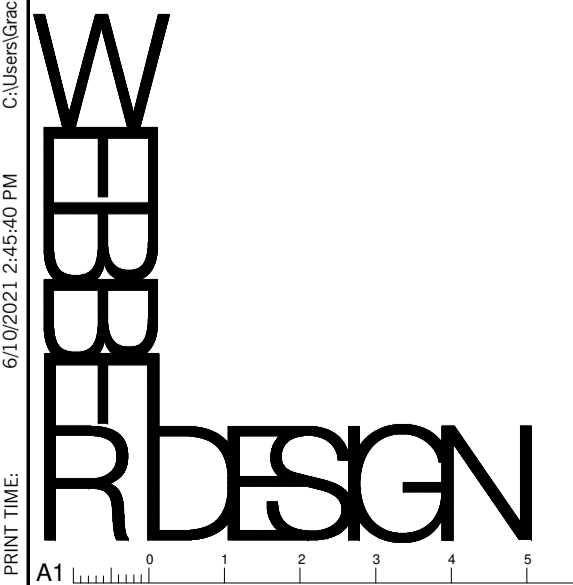
- THIS DRAINAGE DESIGN IS BASED ON LPD ADVICE BY NORTH SYDNEY COUNCIL'S JAYANTA SAHA DATED 20/11/2019. REFERENCE JAYANTA.SAHA@NORTHSYDNEY.NSW.GOV.AU AND IS APPROVED BY ZARKO CVETKOVIC EMAIL DATED 25 MAY 2021. REF: SSD 10393 - CONDITION C32. STW - MONTE SCIENTIA 128 MILLER ST. BUILDER TO MAKE NECESSARY ALLOWANCE WHERE DEEMED REQUIRED.
- FOOTPATH RL SUBJECT TO ARCHITECTURAL AND COUNCIL REVIEW. BUILDER TO MAKE NECESSARY ALLOWANCE WHERE DEEMED REQUIRED. (ALL LEVELS APPROXIMATE BASED FROM TOTAL SURVEYING SOLUTIONS REF: 192082 DATED: 09/09/2019)
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- SUBJECT TO RECEIVED UP TO DATE FEATURE LEVEL SURVEY AND IN GROUND SERVICES SURVEY.

EXISTING SERVICES NOTES:

- BUILDER TO CONFIRM EXACT LOCATION, DEPTH AND SIZE OF EXISTING SERVICES PRIOR COMMENCEMENT OF ANY WORKS.
- IF ANY PROPOSED DRAINAGE SYSTEM INTERSECT WITH EXISTING SERVICES, CONTACT WEBBER DESIGN OFFICE FOR FURTHER ASSESSMENT.

STORMWATER PIT SCHEDULE

| MAR K | SIZE | COVER TYPE | COVER CLASS | COVER LEVEL | REMARKS |
|-------|------------|------------|---------------------------|--|--|
| P1 | 2200 DIA. | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | PUMP PIT WITH DUAL PUMP AND BATTERY BACK UP SYSTEM |
| P1A | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P2 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P3 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P4 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P5 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P6 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P7 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | 75.34 | |
| P8 | 1500 x 900 | GRATED | AS PER AS3996, HEEL GUARD | 71.08 | SURCHARGE PIT |
| P9 | 1500 x 900 | GATIC | SOLID COVER AS PER AS3996 | MATCH EXISTING LEVEL | |
| P10 | 1300 x 900 | GATIC | SOLID COVER AS PER AS3996 | 72.05 | |
| P11 | 1300 x 900 | GATIC | SOLID COVER AS PER AS3996 | MATCH PROPOSED WILDFLOWER GARDEN LEVEL | |
| P12 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH PROPOSED WILDFLOWER GARDEN LEVEL | |
| P13 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH PROPOSED WILDFLOWER GARDEN LEVEL | |
| P14 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | 75.34 | |
| P15 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH EXISTING LEVEL | |
| P16 | 900 x 900 | GATIC | AS PER AS3996 | MATCH EXISTING LEVEL | |
| P19 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH EXISTING LEVEL | |
| P20 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH EXISTING LEVEL | |
| P21 | 1200 x 900 | GRATED | SOLID COVER AS PER AS3996 | MATCH EXISTING LEVEL | |
| P23 | 600 x 2500 | GRATED | AS PER AS3996, HEEL GUARD | 75.34 | |



DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS

| Rev. | Description | Eng. | Draft. | Date |
|------|--------------------------|------|--------|----------|
| P1 | FOR COORDINATION | GP | GP | 28.08.20 |
| P2 | FOR COORDINATION | GP | GP | 11.09.20 |
| P3 | ISSUED FOR PRICING | GP | GP | 16.09.20 |
| T1 | ISSUED FOR PRICING | GP | GP | 16.10.20 |
| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | REVISED AS CLOUDED | GP | GP | 17.03.21 |
| T4 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 06.10.21 |

| LEGEND | |
|--------|--|
| | PIT NUMBER |
| | GRATED PIT |
| | JUNCTION PIT |
| | EXISTING SIDE ENTRY PIT |
| | INSPECTION OPENING |
| | GRATED INLET |
| | FALL DIRECTION |
| | STRIP DRAIN |
| | STORMWATER PIPE |
| | 100 DIA. AGRICULTURAL DRAIN LAID TO 1:100 FALL |
| | PUMP OUT FLOW DRAIN LINE |
| | RISING MAIN LINE |
| | SPOON DRAIN |
| | NEW PAVEMENT |
| | NEW LANDSCAPING |
| | NATURAL SURFACE LEVEL |
| | EXISTING KERB & CHANNEL |
| | NEW KERB & CHANNEL TO COUNCIL REQUIREMENTS |

CERTIFICATION ISSUE

Status: CIVIL DRAWING

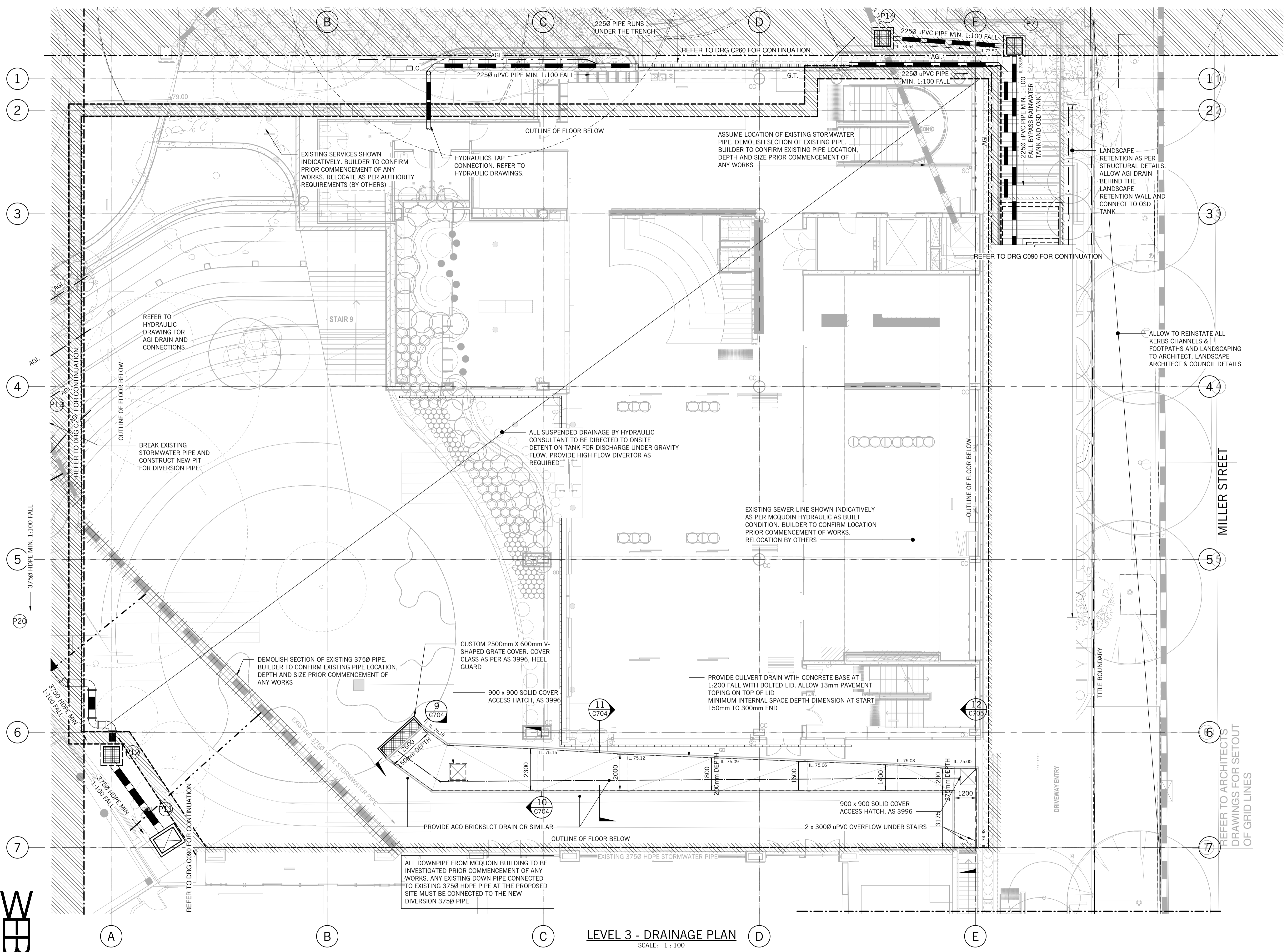
WEBBER DESIGN
 STRUCTURAL ENGINEERING
 MELBOURNE OFFICE: LEVEL 2, 31 QUEEN STREET MELBOURNE, VIC. AUSTRALIA 3000 T: +61 3 9514 7155
 SYDNEY OFFICE: SUITE 301, LEVEL 3, 19A BOUNDARY STREET RUSHCUTTERS BAY, NSW, AUSTRALIA 2011 T: +61 2 9690 2488

CLIENT: **Monte Scintia Project**

PROJECT: **MONTE SANT ANGELO MERCY COLLEGE 128 MILLER ST, N. SYDNEY**

LEVEL 3 - DRAINAGE PLAN

| | | |
|-----------------|------------------|-----------------|
| DATE: AUGUST 20 | DESIGNED BY: GP | CHECKED BY: GP |
| SCALE: AT 1:100 | DRAWN BY: GP | APPROVED BY: PW |
| JOB No: 19133 | DRAWING No: C100 | REV: C1 |



WEBBER DESIGN

EXISTING SERVICES NOTES:

- BUILDER TO CONFIRM EXACT LOCATION, DEPTH AND SIZE OF EXISTING SERVICES PRIOR COMMENCEMENT OF ANY WORKS.
- IF ANY PROPOSED DRAINAGE SYSTEM INTERSECT WITH EXISTING SERVICES, CONTACT WEBBER DESIGN OFFICE FOR FURTHER ASSESSMENT.

REFER TO SHEET C001 FOR PIT SCHEDULE

REFER TO SHEET C250 FOR GENERAL AND DESIGN NOTES

DIAL BEFORE YOU DIG
 www.1100.com.au

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DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS

| Rev. | Description | Eng. | Draft. | Date |
|------|--------------------------|------|--------|----------|
| P1 | FOR COORDINATION | GP | GP | 28.08.20 |
| P2 | FOR COORDINATION | GP | GP | 11.09.20 |
| P3 | ISSUED FOR PRICING | GP | GP | 16.09.20 |
| T1 | ISSUED FOR PRICING | GP | GP | 16.10.20 |
| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |

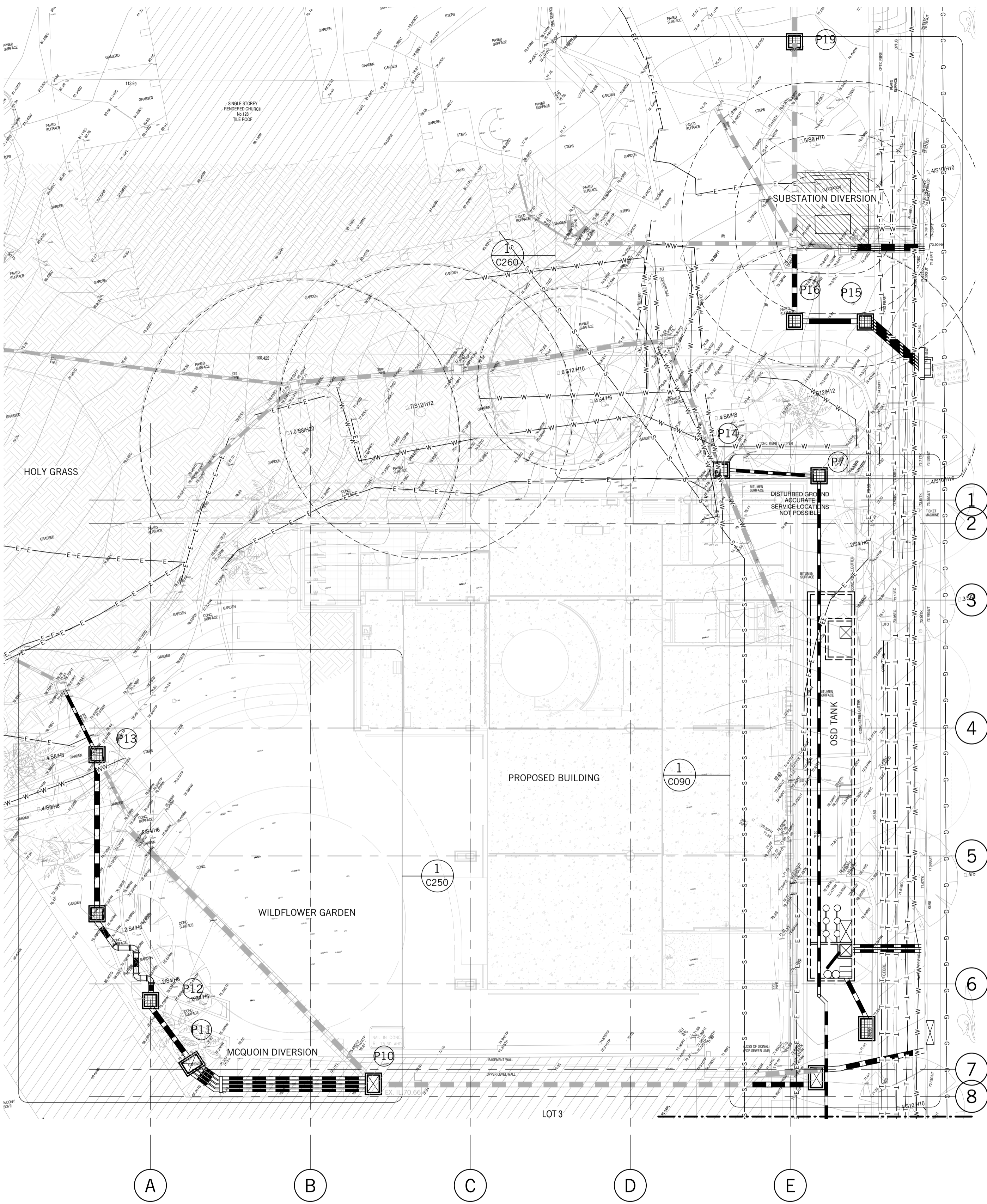
| STORMWATER PIT SCHEDULE | | | | | |
|-------------------------|------------|------------|---------------------------|--|--|
| MAR K | SIZE | COVER TYPE | COVER CLASS | COVER LEVEL | REMARKS |
| P1 | 2200 DIA. | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | PUMP PIT WITH DUAL PUMP AND BATTERY BACK UP SYSTEM |
| P2 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P3 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P4 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P5 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P6 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P7 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | 75.34 | |
| P8 | 1500 x 900 | GRATED | AS PER AS3996, HEEL GUARD | 71.08 | SURCHARGE PIT |
| P9 | 1500 x 900 | GATIC | SOLID COVER AS PER AS3996 | MATCH EXISTING LEVEL | |
| P10 | 1300 x 900 | GATIC | SOLID COVER AS PER AS3996 | 72.05 | |
| P11 | 1300 x 900 | GATIC | SOLID COVER AS PER AS3996 | MATCH PROPOSED WILDFLOWER GARDEN LEVEL | |
| P12 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH PROPOSED WILDFLOWER GARDEN LEVEL | |
| P13 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH PROPOSED WILDFLOWER GARDEN LEVEL | |
| P14 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | 75.34 | |
| P15 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH EXISTING LEVEL | |
| P16 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH EXISTING LEVEL | |
| P19 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH EXISTING LEVEL | |
| P20 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH EXISTING LEVEL | |
| P21 | 900 x 900 | GATIC | SOLID COVER AS PER AS3996 | MATCH EXISTING LEVEL | |

| LEGEND | |
|--------|--|
| | PIT NUMBER |
| | GRATED PIT |
| | JUNCTION PIT |
| | EXISTING SIDE ENTRY PIT |
| | I.O. INSPECTION OPENING |
| | G.I. GRATED INLET |
| | FALL DIRECTION |
| | STRIP DRAIN |
| | STORMWATER PIPE |
| | 100 DIA. AGRICULTURAL DRAIN LAID TO 1:100 FALL |
| | PUMP OUT FLOW DRAIN LINE |
| | RISING MAIN LINE |
| | SPOON DRAIN |
| | NEW PAVEMENT |
| | NEW LANDSCAPING |
| | NSL 34.01x NATURAL SURFACE LEVEL |
| | EXISTING KERB & CHANNEL |
| | NEW KERB & CHANNEL TO COUNCIL REQUIREMENTS |

- NOTES:**
- THIS DRAINAGE DESIGN IS BASED ON LPD ADVICE BY NORTH SYDNEY COUNCIL'S JAYANTA SAHA DATED 20/11/2019. REFERENCE: JAYANTA.SAHA@NORTHSYDNEY.NSW.GOV.AU AND IS APPROVED BY ZARKO CVETKOVIC EMAIL DATED 25 MAY 2021. REF: SSD 10393 - CONDITION C32. STW - MONTE SCIENTIA 128 MILLER ST. BUILDER TO MAKE NECESSARY ALLOWANCE WHERE DEEMED REQUIRED.
 - FOOTPATH RL SUBJECT TO ARCHITECTURAL AND COUNCIL REVIEW. BUILDER TO MAKE NECESSARY ALLOWANCE WHERE DEEMED REQUIRED. (ALL LEVELS APPROXIMATE BASED FROM TOTAL SURVEYING SOLUTIONS REF: 192082 DATED: 09/09/2019)
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 - SUBJECT TO VERIFICATION OF THE GROUNDWATER DEPTH ON SITE.
 - SUBJECT TO REVIEW BY TRAFFIC ENGINEER.
 - SUBJECT TO RECEIPT AND REVIEW OF HYDRAULICS AND FIRE SERVICE CONSTRUCTION ISSUED DRAWINGS FOR COORDINATION.
 - SUBJECT TO RECEIVED UP TO DATE FEATURE LEVEL SURVEY AND IN GROUND SERVICES SURVEY.
- EXISTING SERVICES NOTES:**
- BUILDER TO CONFIRM EXACT LOCATION, DEPTH AND SIZE OF EXISTING SERVICES PRIOR COMMENCEMENT OF ANY WORKS.
 - IF ANY PROPOSED DRAINAGE SYSTEM INTERSECT WITH EXISTING SERVICES, CONTACT WEBBER DESIGN OFFICE FOR FURTHER ASSESSMENT.

- DESIGN ALLOWANCE NOTES:**
- ALL EXISTING IN GROUND STORMWATER TO BE VERIFIED ON SITE BY THE BUILDER AND FLOW TESTED.
 - ALLOW TO REPLACE ANY DAMAGED SERVICES IDENTIFIED.
 - ALLOW TO UPGRADE EXISTING DOWN PIPES WHERE NEW CONNECTION ARE SPECIFIED.
 - ALLOW TO REINSTATE EXISTING PIT AS REQUIRED.

- CONSTRUCTION/DEMOLITION SEQUENCE:**
- INVESTIGATE AND TEST EXISTING DRAINAGE PIPE.
 - RECONSTRUCT TEMPORARY STRUCTURAL PROPPING AS PER STRUCTURE CONSTRUCTION SEQUENCE.
 - DEMOLISH PORTION OF EXISTING BUILDING.
 - CONSTRUCT TEMPORARY DRAINAGE SYSTEM AS REQUIRED.
 - CONSTRUCT PROPOSED DIVERSION PIPE.
 - DEMOLISH PORTION OF DRAINAGE PIPE.
 - DECOMMISSION TEMPORARY DRAINAGE SYSTEM.



EXISTING SITE DRAINAGE & DIVERSION PLAN
SCALE: 1 : 200

CERTIFICATION ISSUE

Status: CIVIL DRAWING

STRUCTURAL ENGINEERING
MELBOURNE OFFICE: LEVEL 2, 31 QUEEN STREET, MELBOURNE, VIC. AUSTRALIA 3000
SYDNEY OFFICE: SUITE 301, LEVEL 3, 19A BOUNDARY STREET, RUSKUTTERS BAY, NSW, AUSTRALIA 2011

CLIENT: Monte Scientia Project

PROJECT: MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY

TITLE: EXISTING SITE DRAINAGE & DIVERSION PLAN

| | | |
|---------------------|-------------------|-----------------|
| DATE: AUGUST 20 | DESIGNED BY: GP | CHECKED BY: GP |
| SCALES AT A1: 1:200 | DRAWN BY: GP | APPROVED BY: PW |
| JOB No.: 19133 | DRAWING No.: C200 | REV.: T3 |



DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS

| Rev. | Description | Eng. | Draft. | Date |
|------|--------------------------|------|--------|----------|
| P1 | FOR COORDINATION | GP | GP | 28.08.20 |
| P2 | FOR COORDINATION | GP | GP | 11.09.20 |
| P3 | ISSUED FOR PRICING | GP | GP | 16.09.20 |
| T1 | ISSUED FOR PRICING | GP | GP | 16.10.20 |
| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | REVISED AS CLOUDED | GP | GP | 17.03.21 |
| T4 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |

LEGEND

| | |
|--|--|
| | PIT NUMBER |
| | GRATED PIT |
| | JUNCTION PIT |
| | EXISTING SIDE ENTRY PIT |
| | INSPECTION OPENING |
| | GRATED INLET |
| | FALL DIRECTION |
| | STRIP DRAIN |
| | STORMWATER PIPE |
| | 100 DIA. AGRICULTURAL DRAIN LAID TO 1:100 FALL |
| | PUMP OUT FLOW DRAIN LINE |
| | RISING MAIN LINE |
| | SPOON DRAIN |
| | NEW PAVEMENT |
| | NEW LANDSCAPING |
| | NATURAL SURFACE LEVEL |
| | EXISTING KERB & CHANNEL |
| | NEW KERB & CHANNEL TO COUNCIL REQUIREMENTS |

CONSTRUCTION ISSUE

Status: CIVIL DRAWING

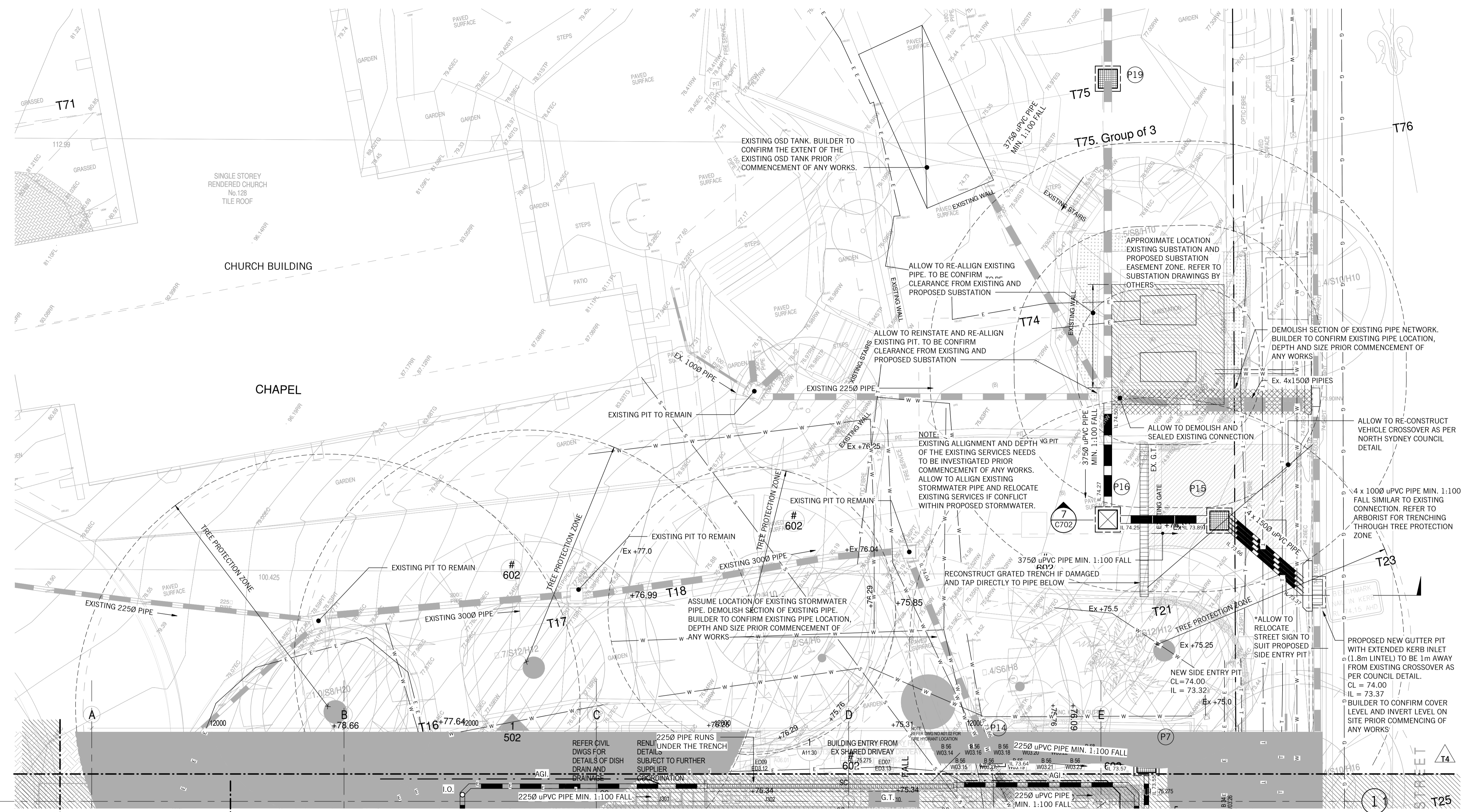
WEBBER DESIGN
 STRUCTURAL ENGINEERING
 MELBOURNE OFFICE: LEVEL 2, 31 QUEEN STREET, MELBOURNE, VIC. AUSTRALIA 3000
 SYDNEY OFFICE: SUITE 301 LEVEL 3, 19A BOUNDARY STREET, RUSHCUTTERS BAY, NSW, AUSTRALIA 2011



PROJECT: MONTE SANT ANGELO
 MERCY COLLEGE
 128 MILLER ST, N. SYDNEY

SUBSTATION DRAINAGE DIVERSION PLAN

| DATE | DESIGNED BY | CHECKED BY |
|--------------|-------------|-------------|
| AUGUST 20 | GP | GP |
| SCALES AT 1: | DRAWN BY | APPROVED BY |
| 1:100 | GP | PW |
| JOB No. | DRAWING No. | REV. |
| 19133 | C260 | C1 |



SUBSTATION DRAINAGE DIVERSION PLAN
 SCALE: 1 : 100

STORMWATER PIT SCHEDULE

| MAR K | SIZE | COVER TYPE | COVER CLASS | COVER LEVEL | REMARKS |
|-------|------------|------------|---------------------------|--|--|
| P1 | 2200 DIA. | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | PUMP PIT WITH DUAL PUMP AND BATTERY BACK UP SYSTEM |
| P1A | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P2 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P3 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P4 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P5 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P6 | 600 x 600 | GRATED | AS PER AS3996, HEEL GUARD | 63.53 | |
| P7 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | 75.34 | |
| P8 | 1500 x 900 | GRATED | AS PER AS3996, HEEL GUARD | 71.08 | SURCHARGE PIT |
| P9 | 1500 x 900 | GATIC | SOLID COVER AS PER AS3996 | MATCH EXISTING LEVEL | |
| P10 | 1300 x 900 | GATIC | SOLID COVER AS PER AS3996 | 72.05 | |
| P11 | 1300 x 900 | GATIC | SOLID COVER AS PER AS3996 | MATCH PROPOSED WILDFLOWER GARDEN LEVEL | |
| P12 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH PROPOSED WILDFLOWER GARDEN LEVEL | |
| P13 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH PROPOSED WILDFLOWER GARDEN LEVEL | |
| P14 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | 75.34 | |
| P15 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH EXISTING LEVEL | |
| P16 | 900 x 900 | GATIC | AS PER AS3996 | MATCH EXISTING LEVEL | |
| P19 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH EXISTING LEVEL | |
| P20 | 900 x 900 | GRATED | AS PER AS3996, HEEL GUARD | MATCH EXISTING LEVEL | |
| P21 | 900 x 900 | GATIC | SOLID COVER AS PER AS3996 | MATCH EXISTING LEVEL | |

NOTES:

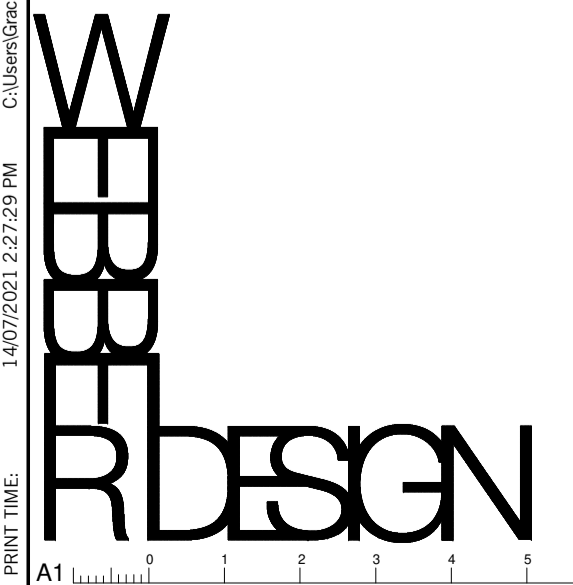
- THIS DRAINAGE DESIGN IS BASED ON LPD ADVICE BY NORTH SYDNEY COUNCIL'S JAYANTA SAHA DATED 20/11/2019. REFERENCE JAYANTA.SAHA@NORTHSYDNEY.NSW.GOV.AU AND IS APPROVED BY ZARKO CVETKOVIC EMAIL DATED 25 MAY 2021. REF. SSD 10393 - CONDITION C32. STW - MONTE SCIENTIA 128 MILLER ST. BUILDER TO MAKE NECESSARY ALLOWANCE WHERE DEEMED REQUIRED.
- FOOTPATH RL SUBJECT TO ARCHITECTURAL AND COUNCIL REVIEW. BUILDER TO MAKE NECESSARY ALLOWANCE WHERE DEEMED REQUIRED. (ALL LEVELS APPROXIMATE BASED FROM TOTAL SURVEYING SOLUTIONS REF. 192082 DATED 09/09/2019)
- THE DESIGN ASSUMES THAT GROUND WATER IS ENCOUNTERED WITHIN THE BASEMENT EXCAVATION UNDER LEVEL 0 SLAB AS PER DOUGLAS PARTNERS GEOTECH REPORT, REF. 73019.03. DATED: FEBRUAR 2020.
- SUBJECT TO VERIFICATION OF THE GROUNDWATER DEPTH ON SITE.
- SUBJECT TO REVIEW BY TRAFFIC ENGINEER.
- SUBJECT TO RECEIPT AND REVIEW OF HYDRAULICS AND FIRE SERVICE CONSTRUCTION ISSUED DRAWINGS FOR COORDINATION.
- SUBJECT TO RECEIVED UP TO DATE FEATURE LEVEL SURVEY AND IN GROUND SERVICES SURVEY.

EXISTING SERVICES NOTES:

- BUILDER TO CONFIRM EXACT LOCATION, DEPTH AND SIZE OF EXISTING SERVICES PRIOR COMMENCEMENT OF ANY WORKS.
- IF ANY PROPOSED DRAINAGE SYSTEM INTERSECT WITH EXISTING SERVICES, CONTACT WEBBER DESIGN OFFICE FOR FURTHER ASSESSMENT.

DESIGN ALLOWANCE NOTES:

- ALL EXISTING IN GROUND STORMWATER TO BE VERIFIED ON SITE BY THE BUILDER AND FLOW TESTED.
- ALLOW TO REPLACE ANY DAMAGED SERVICES IDENTIFIED.
- ALLOW TO UPGRADE EXISTING DOWN PIPES WHERE NEW CONNECTION ARE SPECIFIED.
- ALLOW TO REINSTATE EXISTING PIT AS REQUIRED.



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DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS

| Rev. | Description | Eng. | Draft. | Date |
|------|--------------------------|------|--------|----------|
| P1 | FOR COORDINATION | GP | GP | 28.08.20 |
| P2 | FOR COORDINATION | GP | GP | 11.09.20 |
| P3 | ISSUED FOR PRICING | GP | GP | 16.09.20 |
| T1 | ISSUED FOR PRICING | GP | GP | 16.10.20 |
| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | REVISED AS CLOUDED | GP | GP | 17.03.21 |
| T4 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |

| LEGEND | |
|------------------------------|-------------------------------|
| FALL | OVERLAND FLOW PATH |
| +EX. 71.00 | EXISTING SURFACE LEVEL |
| +71.00 | PROPOSED SURFACE LEVEL |
| RL 71.00 | BUILDING LEVEL / FINISH LEVEL |
| STEP | STRUCTURAL STEP |
| INTERNAL TO EXTERNAL OUTLINE | INTERNAL TO EXTERNAL OUTLINE |
| PROPOSED HOB | PROPOSED HOB |

CONSTRUCTION ISSUE

Status
CIVIL DRAWING

WEBBER DESIGN
STRUCTURAL ENGINEERING
MELBOURNE OFFICE: LEVEL 2, 31 QUEEN STREET MELBOURNE, VIC. AUSTRALIA 3000 T: +61 3 9514 7155
SYDNEY OFFICE: SUITE 301 LEVEL 3, 19A BOUNDARY STREET RUSHCUTTERS BAY, NSW, AUSTRALIA 2011 T: +61 2 9690 2488



PROJECT
**MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY**

TITLE
LEVEL 2 - OVERLAND FLOW PATH PLAN

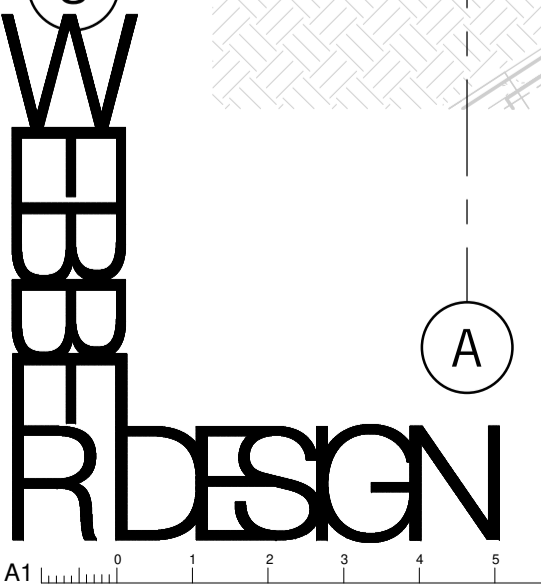
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| DATE AUGUST 20 | DESIGNED BY GP | CHECKED BY GP |
| SCALE AT A1 1:100 | DRAWN BY GP | APPROVED BY PW |
| JOB No. 19133 | DRAWING No. C300 | REV. C1 |



LEVEL 2 - OVERLAND FLOW PATH
SCALE: 1 : 100



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| Rev. | Description | Eng. | Draft. | Date |
|------|--------------------------|------|--------|----------|
| P1 | FOR COORDINATION | GP | GP | 28.08.20 |
| P2 | FOR COORDINATION | GP | GP | 11.09.20 |
| P3 | ISSUED FOR PRICING | GP | GP | 16.09.20 |
| T1 | ISSUED FOR PRICING | GP | GP | 16.10.20 |
| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 06.10.21 |

| LEGEND | |
|---------------|-------------------------------|
| FALL | OVERLAND FLOW PATH |
| +EX. 71.00 | EXISTING SURFACE LEVEL |
| +71.00 | PROPOSED SURFACE LEVEL |
| RL 71.00 | BUILDING LEVEL / FINISH LEVEL |
| STEP | STRUCTURAL STEP |
| [Hatched Box] | INTERNAL TO EXTERNAL OUTLINE |
| [Hatched Box] | PROPOSED HOB |

CERTIFICATION ISSUE

Status
CIVIL DRAWING

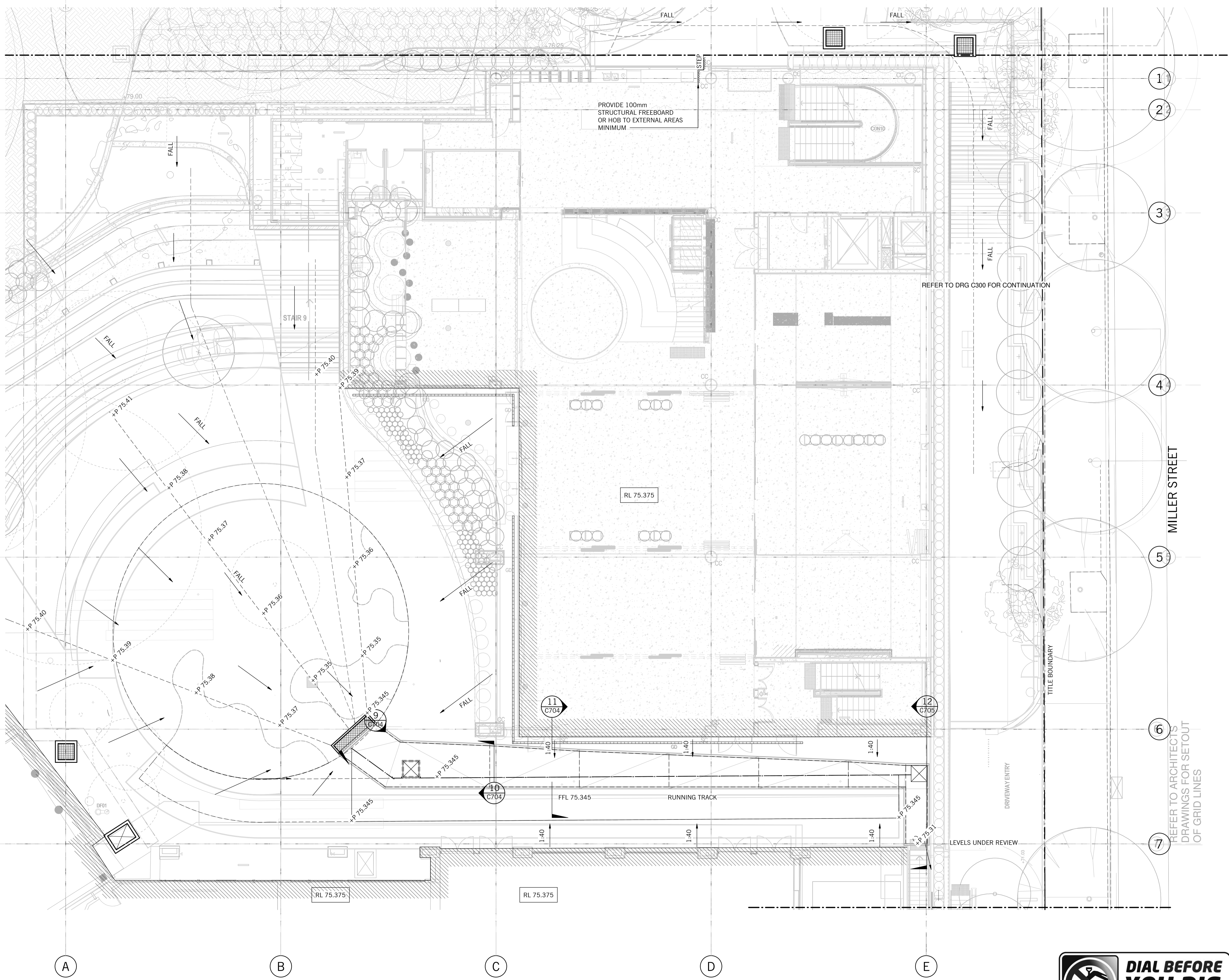
WEBBER DESIGN
STRUCTURAL ENGINEERING
MELBOURNE OFFICE: LEVEL 2, 31 QUEEN STREET MELBOURNE, VIC. AUSTRALIA 3000 T: +61 3 9514 7155
SYDNEY OFFICE: SUITE 301 LEVEL 3, 19A BOUNDARY STREET RUSHCUTTERS BAY, NSW, AUSTRALIA 2011 T: +61 2 9690 2488



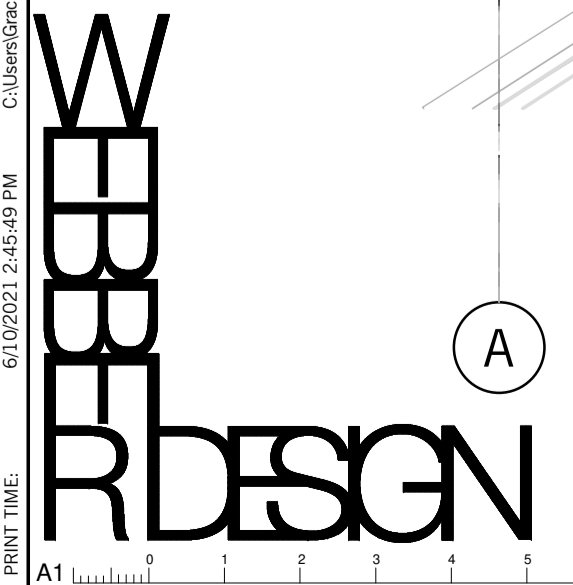
PROJECT
**MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY**

TITLE
LEVEL 3 - OVERLAND FLOW PATH PLAN

| DATE | DESIGNED BY | CHECKED BY |
|--------------|-------------|-------------|
| AUGUST 20 | GP | GP |
| SCALES AT A1 | DRAWN BY | APPROVED BY |
| 1:100 | GP | PW |
| JOB No. | DRAWING No. | REV. |
| 19133 | C310 | C1 |



LEVEL 3 - OVERLAND FLOW PATH
SCALE: 1 : 100



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|------|--------------------------|------|--------|----------|
| P1 | FOR COORDINATION | GP | GP | 11.09.20 |
| P2 | ISSUED FOR PRICING | GP | GP | 16.09.20 |
| T1 | ISSUED FOR PRICING | GP | GP | 16.10.20 |
| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |

LEGEND

| | | |
|--|------------|-------------------------------|
| | FALL | OVERLAND FLOW PATH |
| | +EX. 71.00 | EXISTING SURFACE LEVEL |
| | +71.00 | PROPOSED SURFACE LEVEL |
| | RL 71.00 | BUILDING LEVEL / FINISH LEVEL |
| | STEP | STRUCTURAL STEP |
| | | INTERNAL TO EXTERNAL OUTLINE |
| | | PROPOSED HOB |

CONSTRUCTION ISSUE

Status
CIVIL DRAWING

WEBBER DESIGN
STRUCTURAL ENGINEERING

MELBOURNE OFFICE: LEVEL 2, 31 QUEEN STREET, MELBOURNE, VIC. AUSTRALIA 3000
SYDNEY OFFICE: SUITE 301 LEVEL 3, 19A BOUNDARY STREET, RUSHCUTTERS BAY, NSW, AUSTRALIA 2011



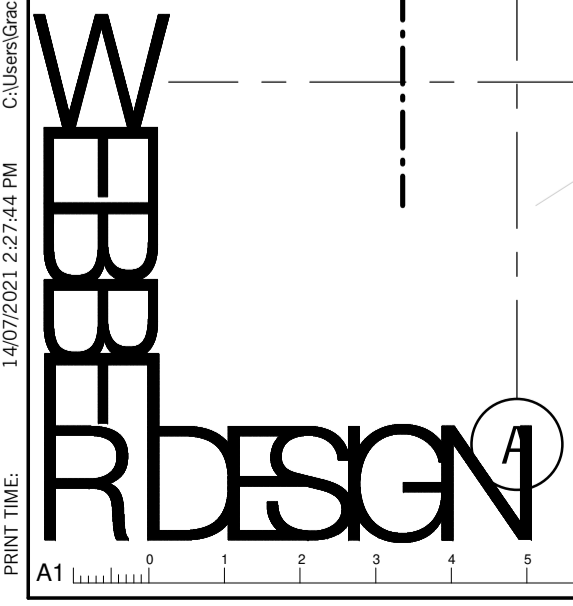
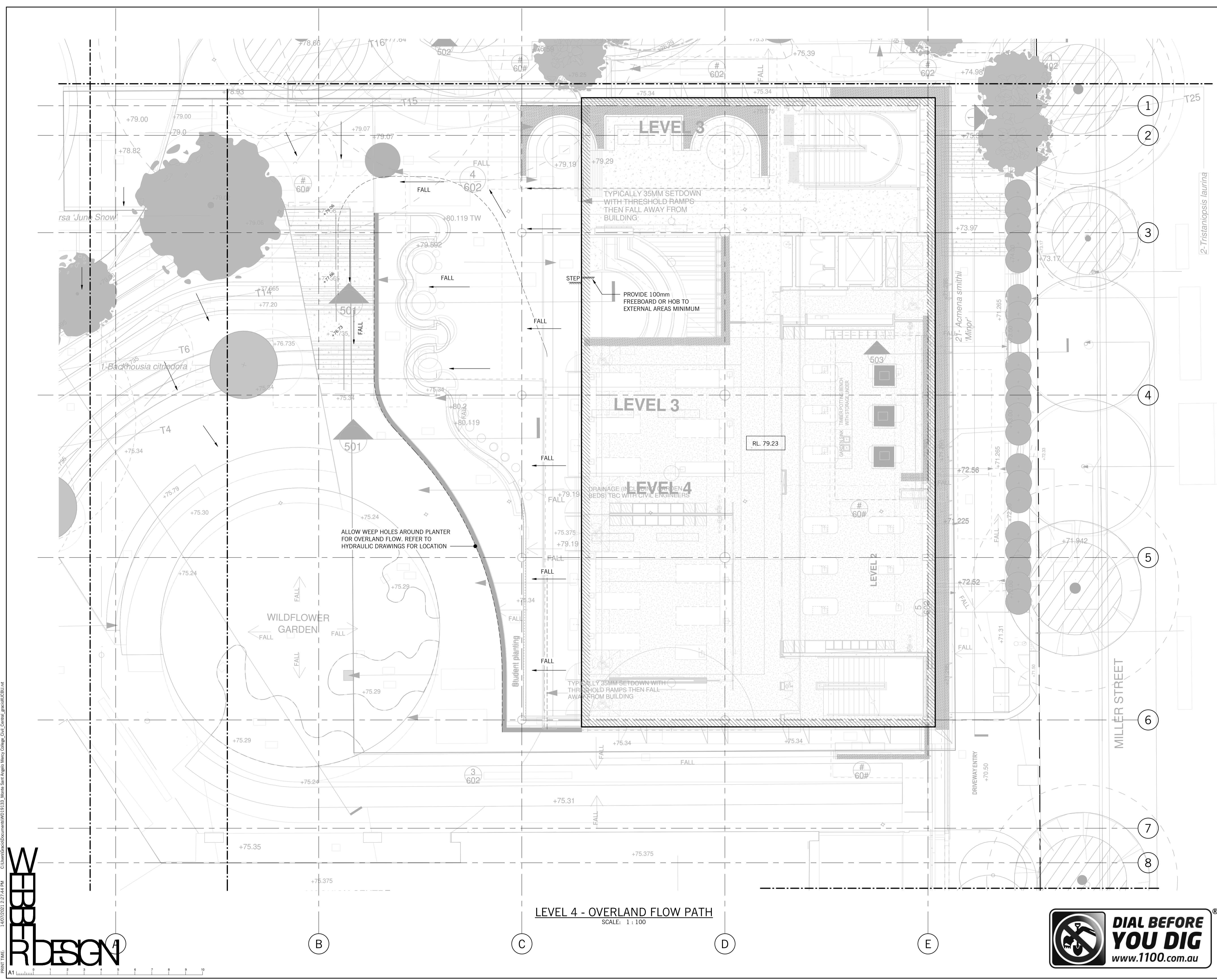
PROJECT
**MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY**

TITLE
LEVEL 4 - OVERLAND FLOW PATH PLAN

| DATE | DESIGNED BY | CHECKED BY |
|--------------|-------------|-------------|
| AUGUST 20 | GP | GP |
| SCALES AT A1 | DRAWN BY | APPROVED BY |
| 1:100 | GP | PW |
| JOB No. | DRAWING No. | REV. |
| 19133 | C320 | C1 |



LEVEL 4 - OVERLAND FLOW PATH
SCALE: 1 : 100



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| T1 | ISSUED FOR PRICING | GP | GP | 16.10.20 |
| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |

| LEGEND | |
|--------------|--|
| (Pxx) | PIT NUMBER |
| [Grid] | GRATED PIT |
| [X] | JUNCTION PIT |
| [Diagonal] | EXISTING SIDE ENTRY PIT |
| I.O. ○ | INSPECTION OPENING |
| G.I. ○ | GRATED INLET |
| → | FALL DIRECTION |
| [Strip] | STRIP DRAIN |
| [Pipe] | STORMWATER PIPE |
| [Dashed] | 100 DIA. AGRICULTURAL DRAIN LAID TO 1:100 FALL |
| [Dotted] | PUMP OUT FLOW DRAIN LINE |
| [Dash-dot] | RISING MAIN LINE |
| [Spoon] | SPOON DRAIN |
| [New Pav] | NEW PAVEMENT |
| [New Landsc] | NEW LANDSCAPING |
| NSL 34.01x | NATURAL SURFACE LEVEL |
| Ex K&CH | EXISTING KERB & CHANNEL |
| K&CH | NEW KERB & CHANNEL TO COUNCIL REQUIREMENTS |

CONSTRUCTION ISSUE

Status
CIVIL DRAWING



WEBBER DESIGN
STRUCTURAL ENGINEERING

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SYDNEY OFFICE: SUITE 301, LEVEL 3, 19A BOUNDARY STREET RUSHCUTTERS BAY, NSW, AUSTRALIA 2011 T: +61 2 9690 2488

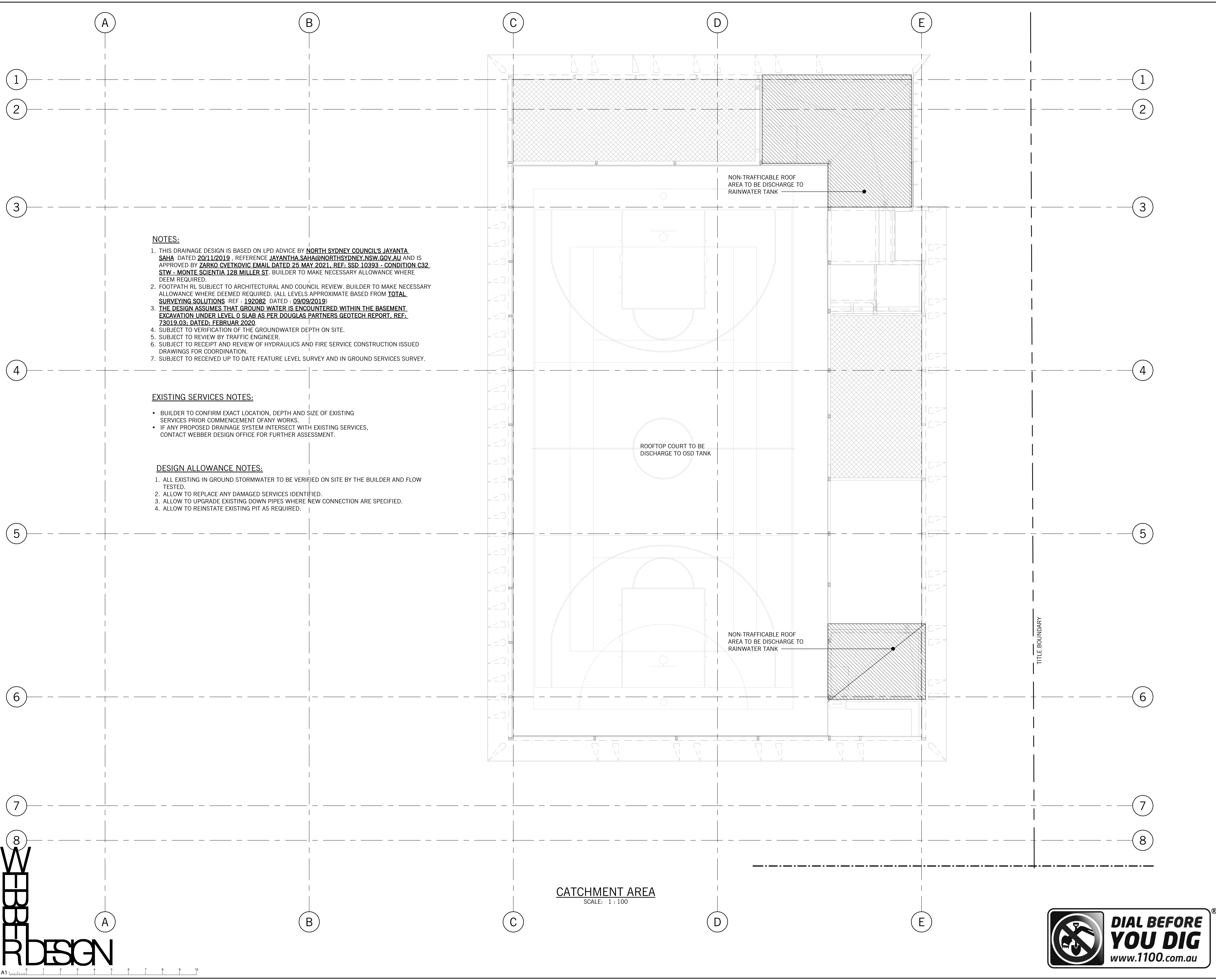


CLIENT
Monte Scientia Project

PROJECT
**MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY**

CATCHMENT AREA PLAN

| | | |
|-----------------------|---------------------|-------------------|
| DATE AUGUST 20 | DESIGNED BY GP | CHECKED BY GP |
| SCALES AT A1 1:100 | DRAWN BY GP | APPROVED BY PW |
| JOB No. 19133 | DRAWING No. C400 | REV. C1 |



- NOTES:**
- THIS DRAINAGE DESIGN IS BASED ON LPD ADVICE BY NORTH SYDNEY COUNCIL'S JAYANTA SAHA DATED 20/11/2019 - REFERENCE JAYANTHA.SAHA@NORTHSYDNEY.NSW.GOV.AU AND IS APPROVED BY ZARKO CVETKOVIC EMAIL DATED 25 MAY 2021. REF: SSD 10393 - CONDITION C32 STW - MONTE SCIENTIA 128 MILLER ST. BUILDER TO MAKE NECESSARY ALLOWANCE WHERE DEEM REQUIRED.
 - FOOTPATH RL SUBJECT TO ARCHITECTURAL AND COUNCIL REVIEW. BUILDER TO MAKE NECESSARY ALLOWANCE WHERE DEEMED REQUIRED. (ALL LEVELS APPROXIMATE BASED FROM TOTAL SURVEYING SOLUTIONS REF: 192082 DATED: 09/09/2019)
 - THE DESIGN ASSUMES THAT GROUND WATER IS ENCOUNTERED WITHIN THE BASEMENT EXCAVATION UNDER LEVEL 0 SLAB AS PER DOUGLAS PARTNERS GEOTECH REPORT, REF: 73019.03; DATED: FEBRUAR 2020.
 - SUBJECT TO VERIFICATION OF THE GROUNDWATER DEPTH ON SITE.
 - SUBJECT TO REVIEW BY TRAFFIC ENGINEER.
 - SUBJECT TO RECEIPT AND REVIEW OF HYDRAULICS AND FIRE SERVICE CONSTRUCTION ISSUED DRAWINGS FOR COORDINATION.
 - SUBJECT TO RECEIVED UP TO DATE FEATURE LEVEL SURVEY AND IN GROUND SERVICES SURVEY.

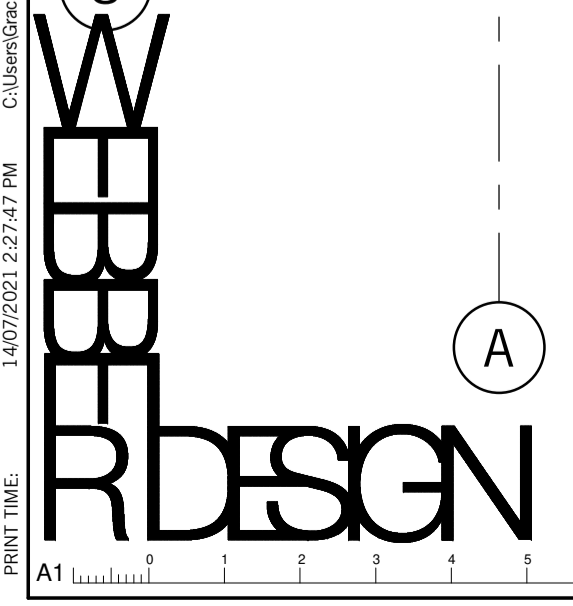
- EXISTING SERVICES NOTES:**
- BUILDER TO CONFIRM EXACT LOCATION, DEPTH AND SIZE OF EXISTING SERVICES PRIOR COMMENCEMENT OF ANY WORKS.
 - IF ANY PROPOSED DRAINAGE SYSTEM INTERSECT WITH EXISTING SERVICES, CONTACT WEBBER DESIGN OFFICE FOR FURTHER ASSESSMENT.

- DESIGN ALLOWANCE NOTES:**
- ALL EXISTING IN GROUND STORMWATER TO BE VERIFIED ON SITE BY THE BUILDER AND FLOW TESTED.
 - ALLOW TO REPLACE ANY DAMAGED SERVICES IDENTIFIED.
 - ALLOW TO UPGRADE EXISTING DOWN PIPES WHERE NEW CONNECTION ARE SPECIFIED.
 - ALLOW TO REINSTATE EXISTING PIT AS REQUIRED.

CATCHMENT AREA
SCALE: 1 : 100

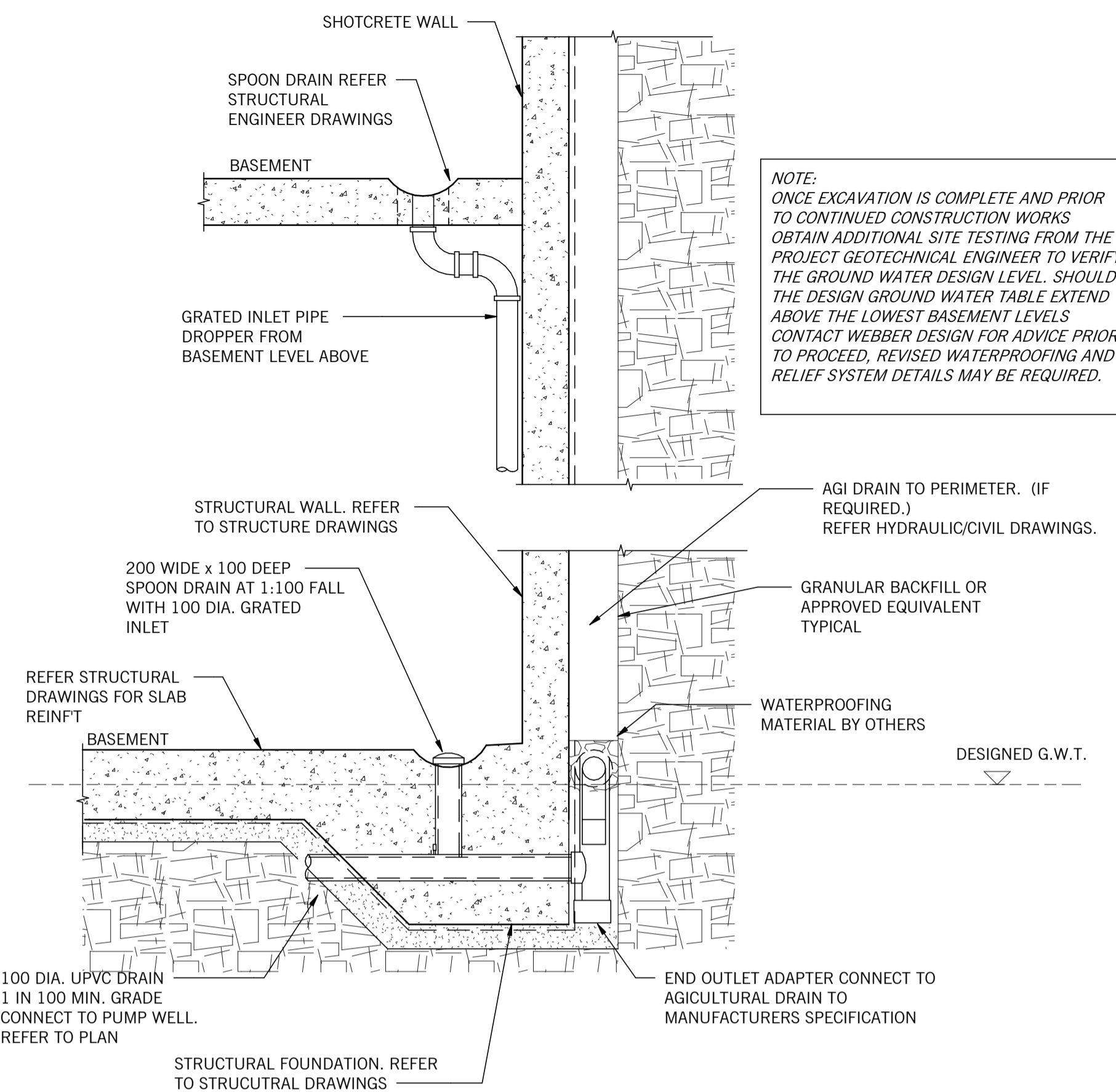


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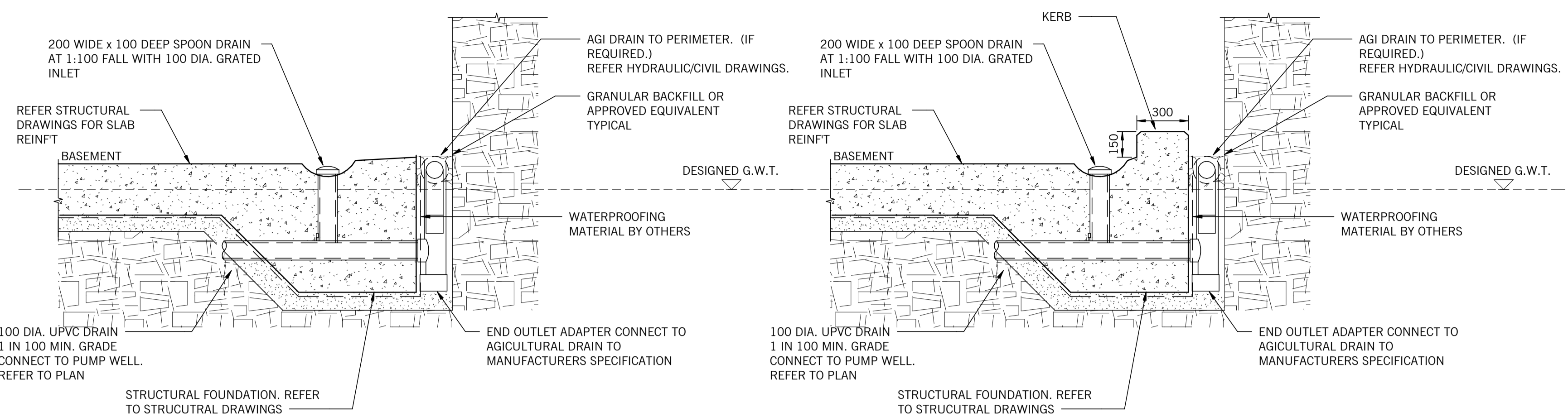


DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS

| Rev. | Description | Eng. | Draft. | Date |
|------|--------------------------|------|--------|----------|
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| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| T4 | REVISED AS CLOUDED | GP | GP | 08.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |

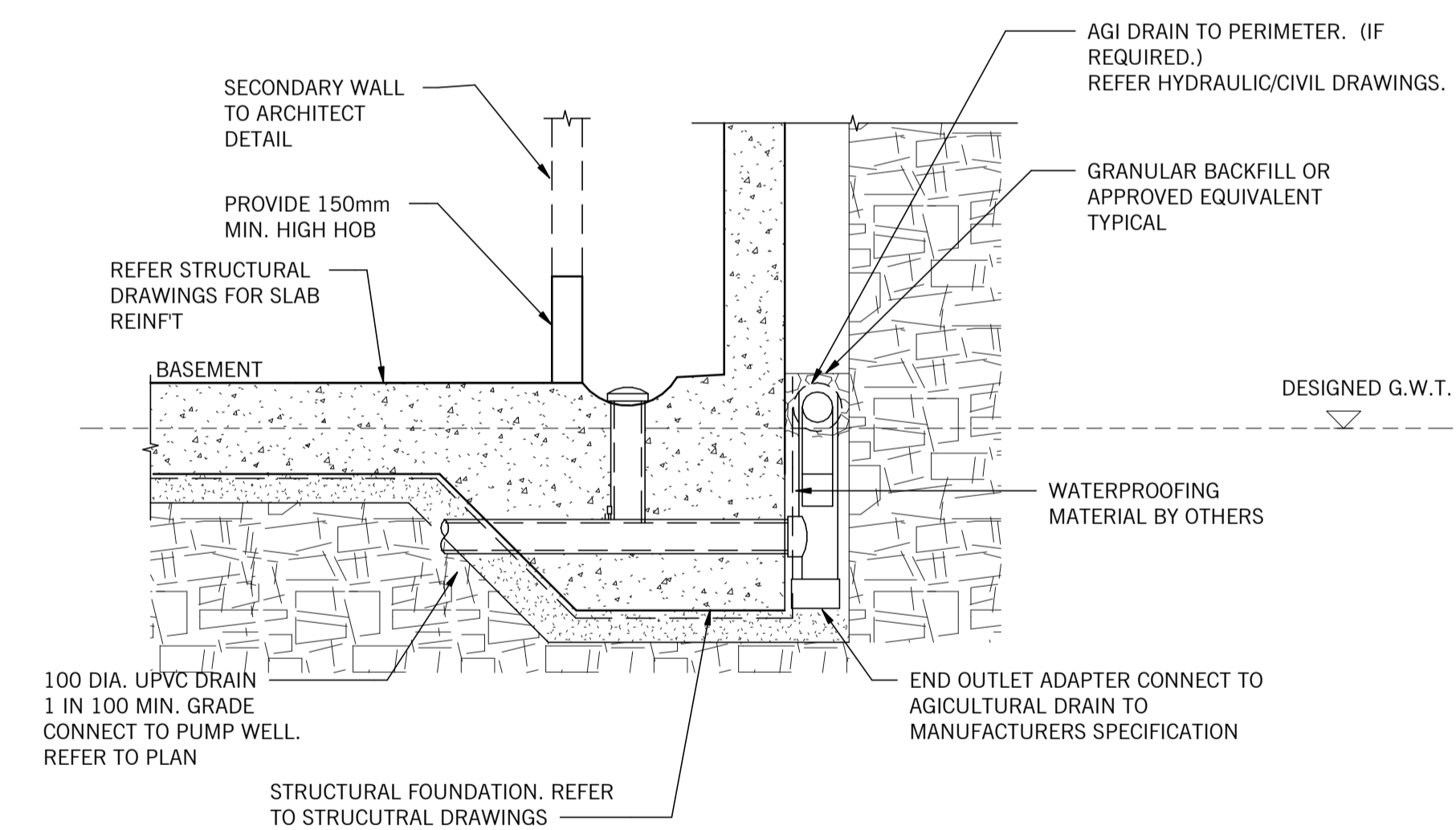


DRAINAGE DETAIL WITHIN VERTICAL CUT ROCK (MULTIPLE BASEMENT)
NTS

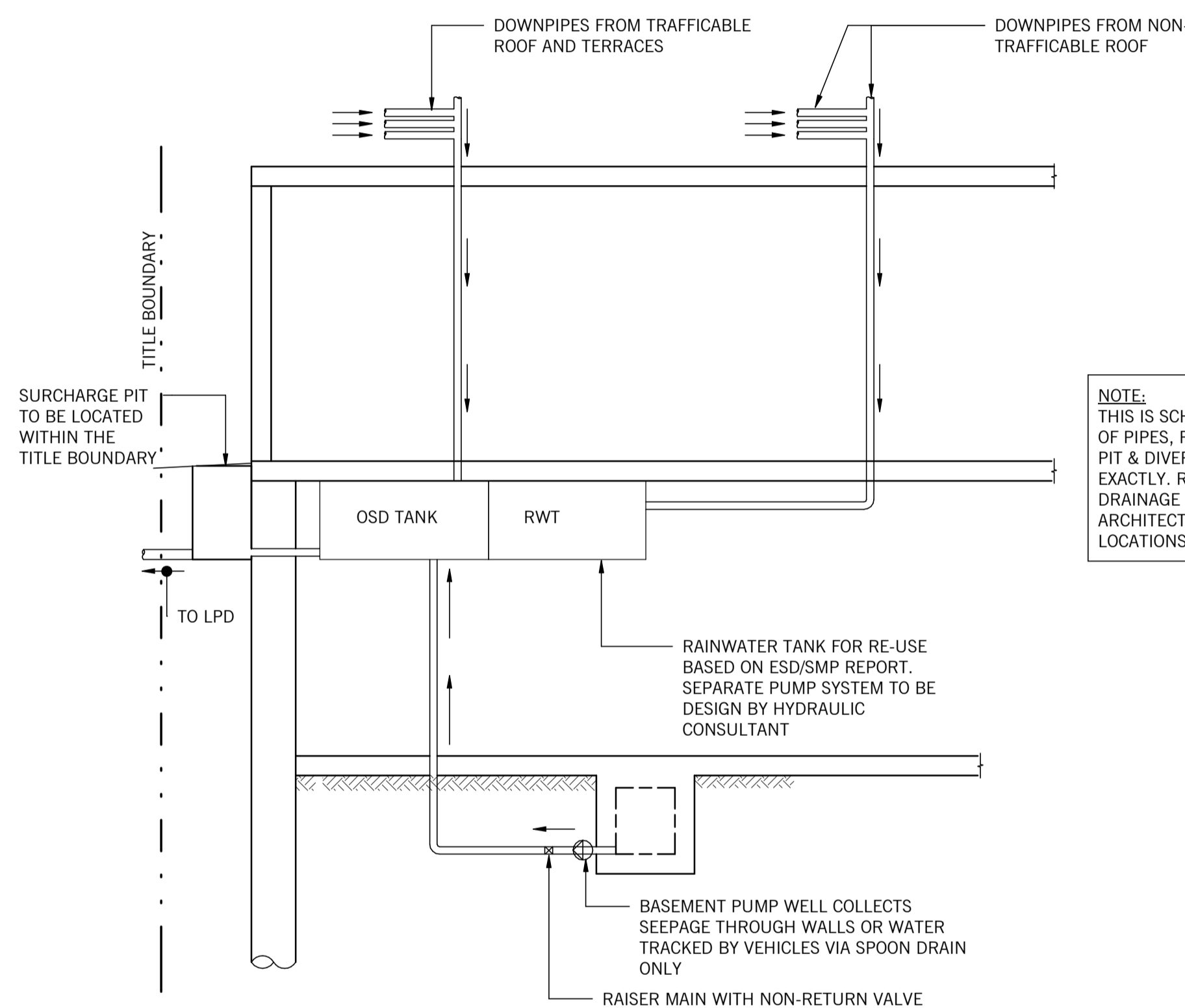


DRAINAGE DETAIL WITHIN VERTICAL CUT ROCK
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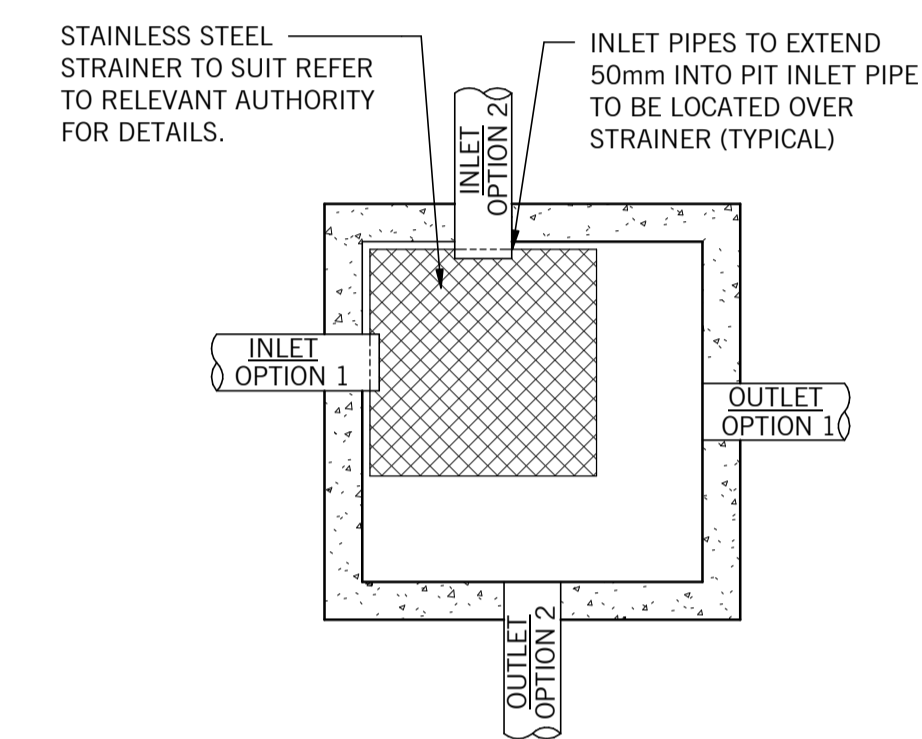
DRAINAGE DETAIL WITH KERB WITHIN VERTICAL CUT ROCK
NTS



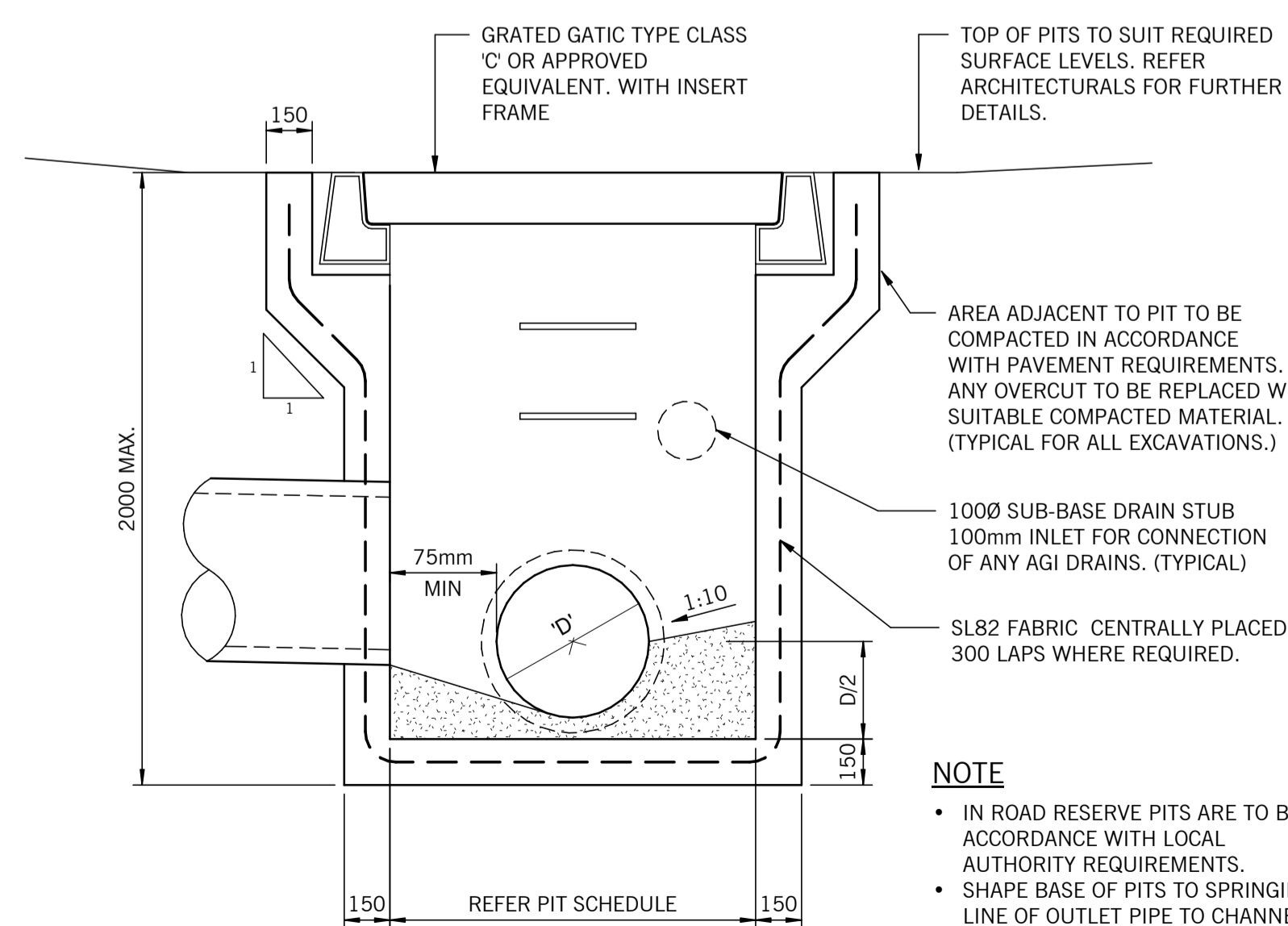
DRAIN ADJACENT HABITABLE SPACE WITHIN VERTICAL CUT ROCK
NTS



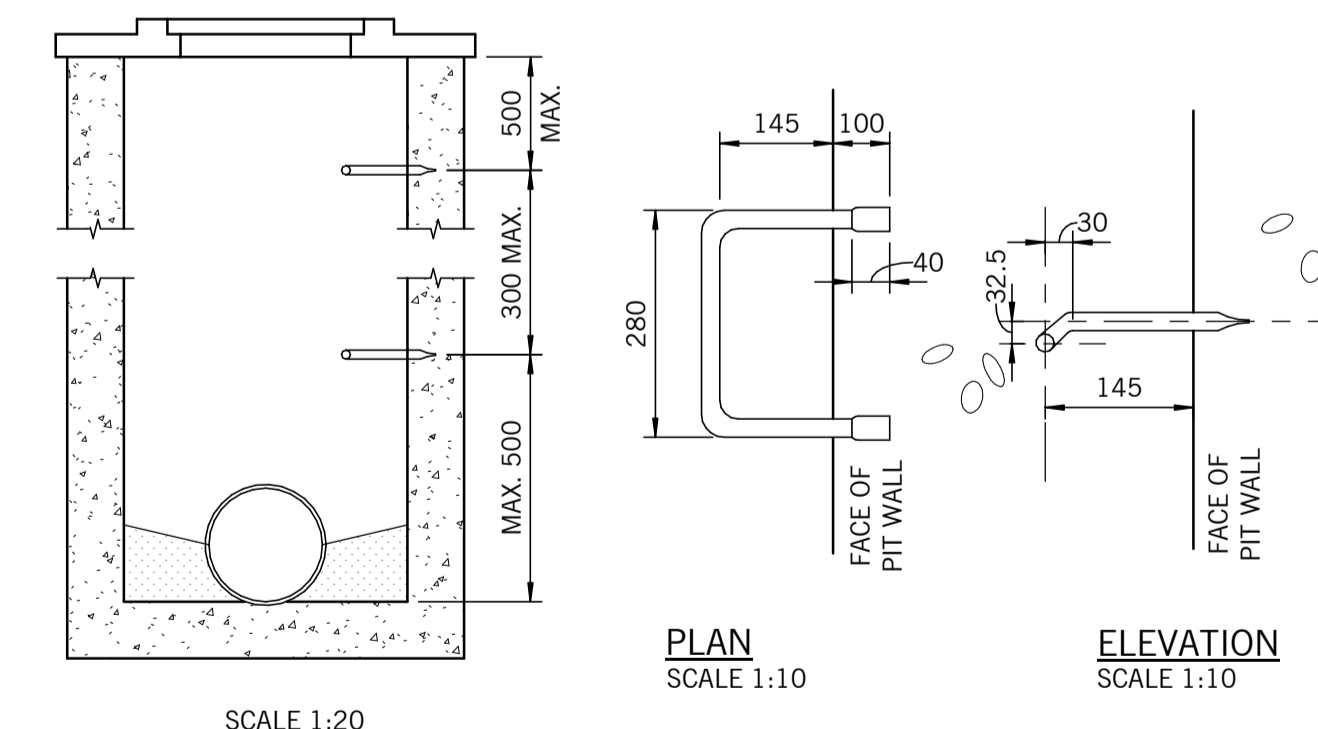
STORMWATER DISCHARGE SCHEMATIC
NTS



TYPICAL PIT BASE DETAIL
SCALE 1:10
REFER TO RELEVANT AUTHORITY FOR FURTHER REQUIREMENTS AND LOCATIONS.



TYPICAL PIT DETAIL
SCALE 1:20



TYPICAL STEP IRON DETAIL

- NOTES:**
- STEP IRONS TO BE GALVANISED AND USED IN PITS EXCEEDING 900mm IN DEPTH
 - COMMENCE STEP IRONS 500mm FROM BOTTOM OF PIT WITH MAXIMUM 300mm SPACING TO WITHIN 500mm OF THE TOP.
 - STEP IRONS TO BE PLACED CENTRAL TO PIT COVER OPENINGS.
 - STEP IRONS INSTALLED IN COUNCIL PITS MUST COMPLY WITH STANDARDS AS3679 PART 1 AND AS/NZS 4680.
 - FOR PRECAST PITS, STEP IRONS MUST BE LOAD TESTED TO AS4198/1994

NOTES:

GROUNDWATER RECHARGE WILL NOT BE EXPECTED TO BE ABOVE GROUNDWATER TABLE REFERED ON GEOTECH REPORT PREPARED BY DOUGLAS PARTNERS GEOTECH REPORT, REF: 73019.03, DATED: FEBRUAR 2020 AS PER DOUGLAS PARTNERS ADVICE, ACONEX REFERENCE: DF-GCOR-000040.

ONCE EXCAVATION IS COMPLETE AND PRIOR TO CONTINUED CONSTRUCTION WORKS OBTAIN ADDITIONAL SITE TESTING FROM THE PROJECT GEOTECHNICAL ENGINEER TO VERIFY THE GROUND WATER DESIGN LEVEL. SHOULD THE DESIGN GROUND WATER TABLE EXTEND ABOVE THE LOWEST BASEMENT LEVELS CONTACT WEBBER DESIGN FOR ADVICE PRIOR TO PROCEED, REVISED WATERPROOFING AND RELIEF SYSTEM DETAILS MAY BE REQUIRED.

CONSTRUCTION ISSUE

Status
CIVIL DRAWING

WEBBER DESIGN
STRUCTURAL ENGINEERING
MELBOURNE OFFICE: LEVEL 2, 31 QUEEN STREET MELBOURNE, VIC. AUSTRALIA 3000 T: +61 3 9514 7155
SYDNEY OFFICE: SUITE 301, LEVEL 3, 19A BOUNDARY STREET RUSHCUTTERS BAY, NSW, AUSTRALIA 2011 T: +61 2 9690 2488

CLIENT
Monte Scientia Project
Project of Monte Scientia

PROJECT
MONTE SANT ANGELO MERCY COLLEGE
128 MILLER ST, N. SYDNEY

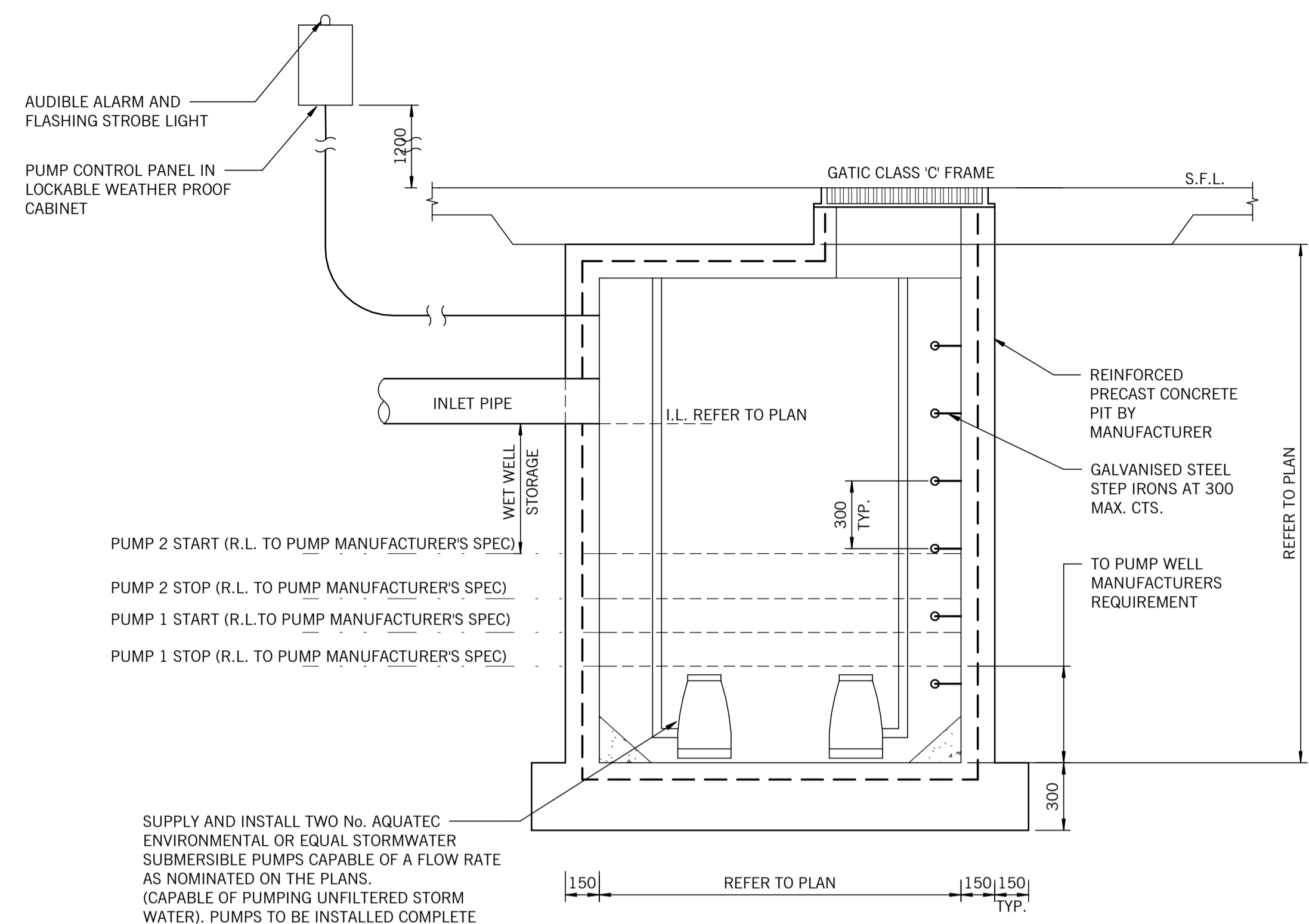
TITLE
TYPICAL CIVIL DETAILS - SHEET 1

| DATE | DESIGNED BY | CHECKED BY |
|------------------|-------------|-------------|
| AUGUST 20 | GP | GP |
| SCALES AT 1: | DRAWN BY | APPROVED BY |
| 1:10, 1:20, 1:50 | GP | PW |
| JOB No. | DRAWING No. | REV. |
| 19133 | C500 | C1 |

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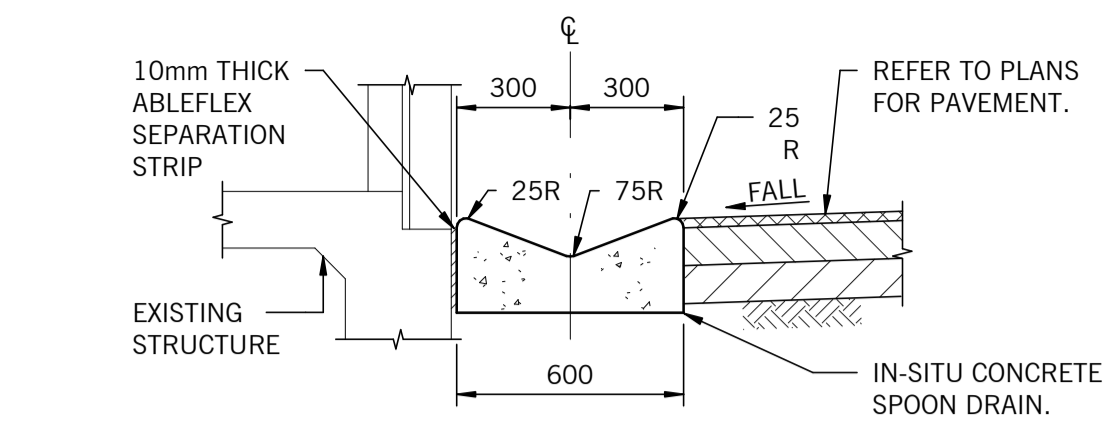
| Rev. | Description | Eng. | Draft. | Date |
|------|--------------------------|------|--------|----------|
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| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |



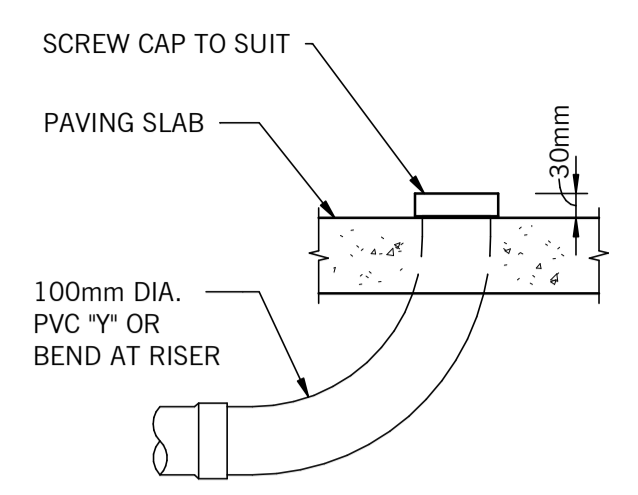
PUMP WELL PIT DETAIL
SCALE: N.T.S.

NOTE
DESIGN OF PIT WALLS TO TAKE INTO ACCOUNT HYDROSTATIC PRESSURE FROM GROUND WATER FOR FULL DEPTH OF PIT

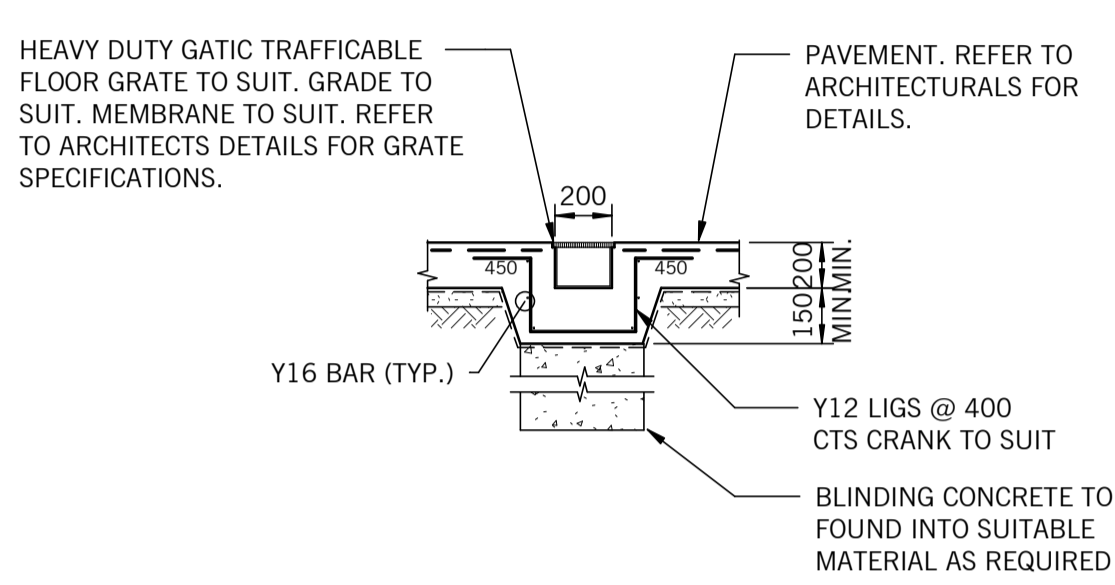
NOTE
SIZE AND SPECIFICATION OF PUMPELL AND PUMPS T.B.C. PENDING REVIEW OF HYDRAULIC DRAWINGS



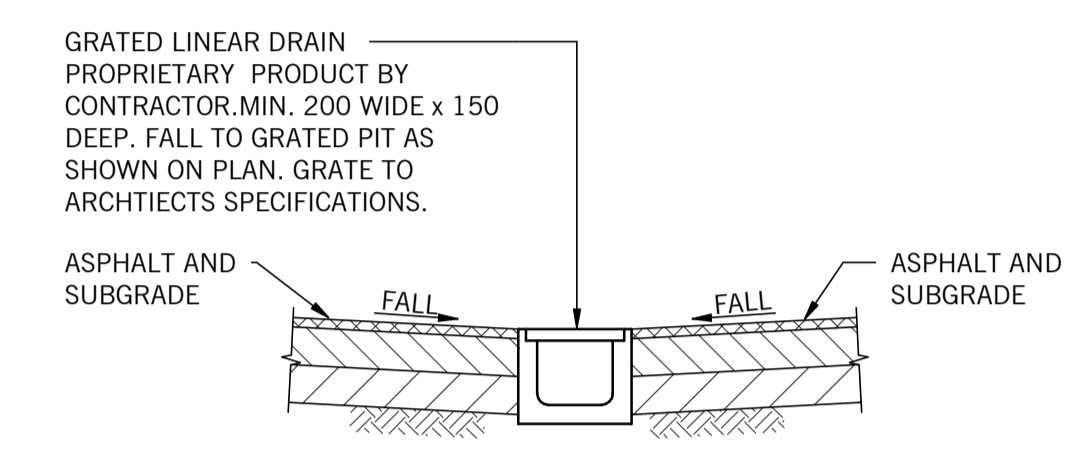
TYPICAL SPOON DRAIN ADJACENT STRUCTURE DETAIL
SCALE 1:20



INSPECTION OPENING (I.O.)
(TO BE INSTALLED AT HIGH POINTS, 30m INTERVALS AND AS NOMINATED ON DRAWINGS AS A MINIMUM)

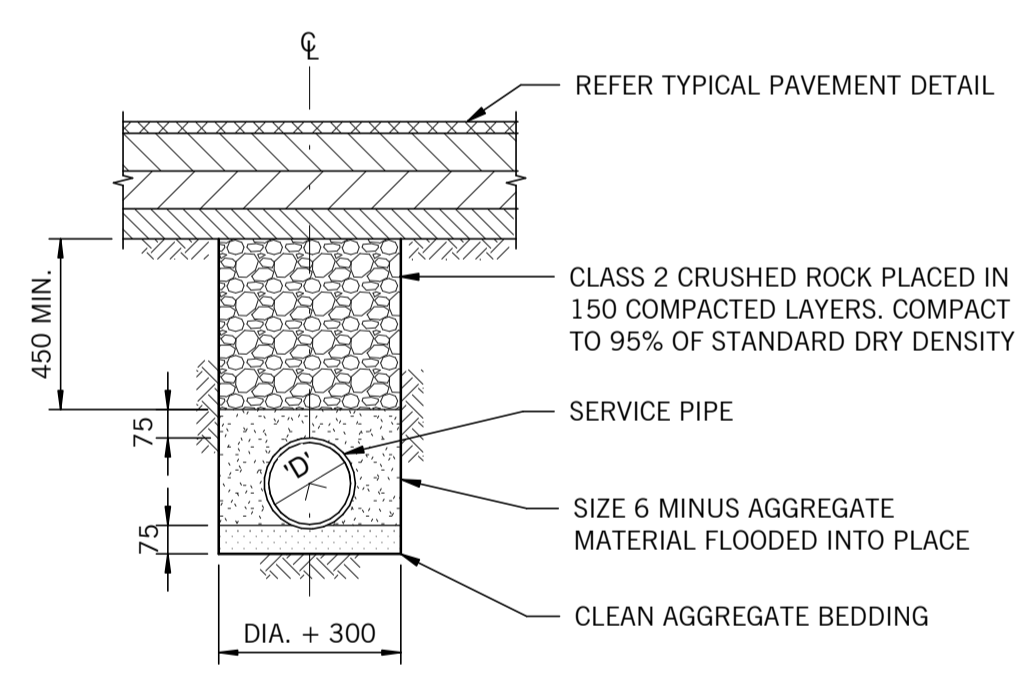


GRADED TRENCH DETAIL
SCALE 1:20

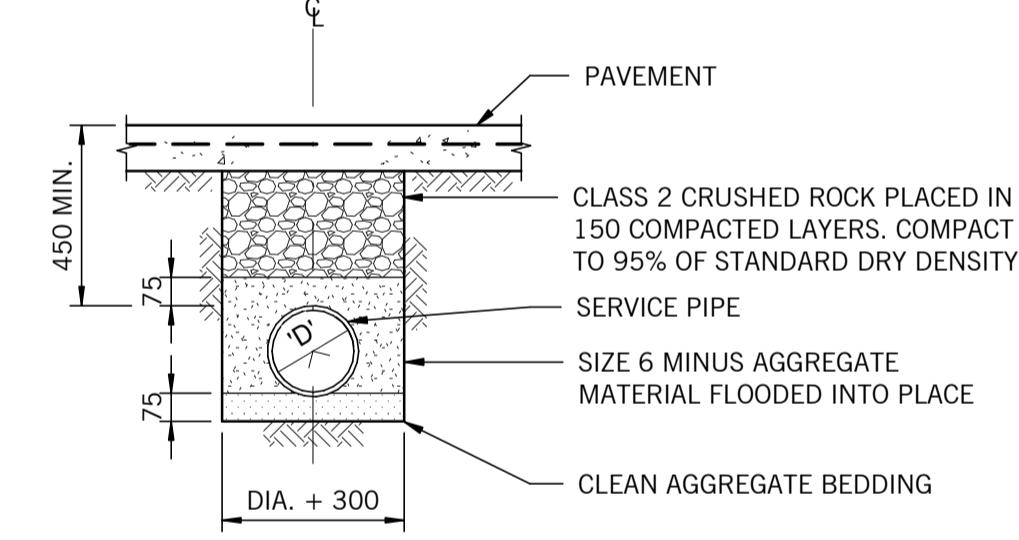


NOTE:
REFER TO PROPRIETARY PRODUCT SPECIFICATIONS FOR INSTALLATION DETAIL.

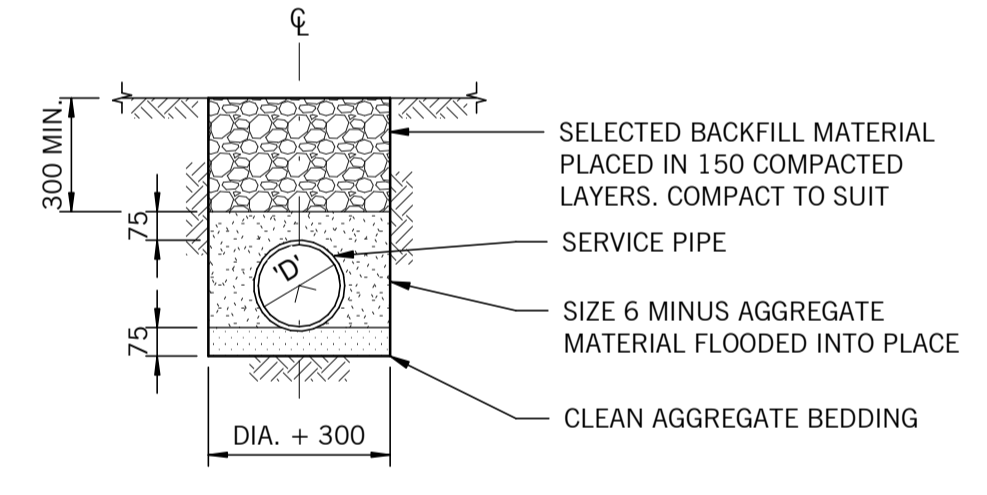
GRADED LINEAR DRAIN DETAIL



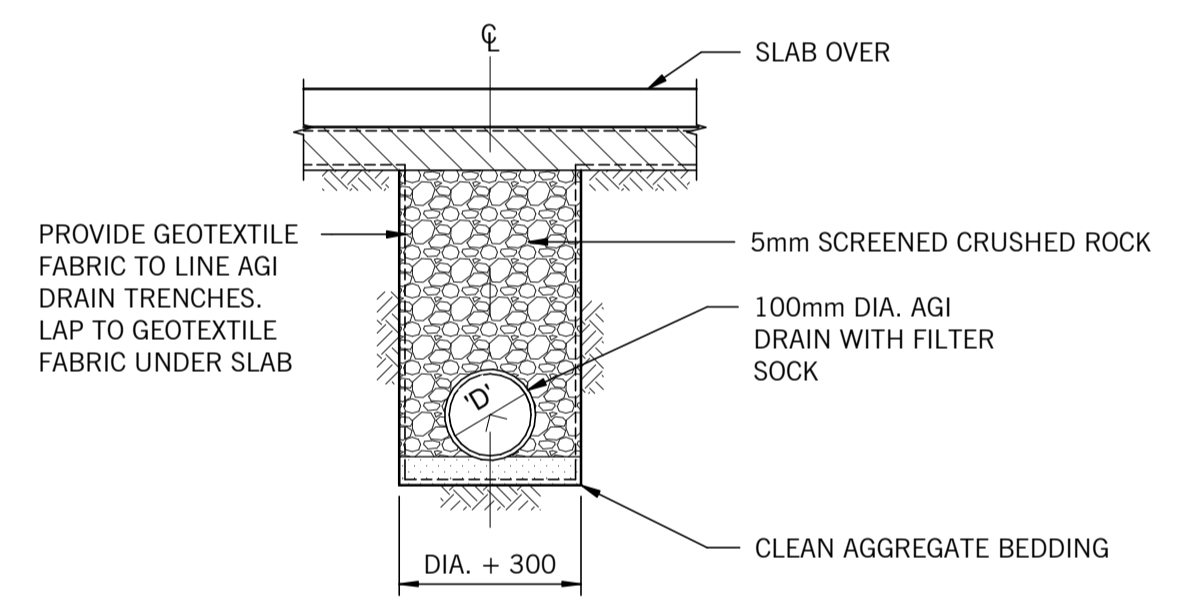
PIPE LAYING DETAIL UNDER ASPHALT PAVEMENT
SCALE: 1:20



PIPE LAYING DETAIL UNDER CONCRETE PAVEMENT
SCALE: 1:20



PIPE LAYING DETAIL - OPEN SPACE
SCALE: 1:20



AGI DRAIN LAYING DETAIL

SCALE: 1:20
NOTE:
INVERT LEVEL OF AGI DRAIN SHALL BE AS REQUIRED BY ADJOINING CONSTRUCTION, BUT NOT LESS THAN THE 500mm BELOW FINISHED SURFACE LEVEL AND/OR 300mm BELOW THE FORMATION LEVEL OF ADJACENT CHANNELLING PAVEMENT SYSTEMS

NOTE:
ALL KERBS, RETAINING WALLS, PAVEMENT EDGES, ETC ARE TO BE AGI DRAINS TO BE CONNECTED TO MAIN IN GROUND DRAINAGE SYSTEM TO SUIT. AGI DRAINS NOT SHOWN ON DRAWINGS FOR CLARITY. REFER DETAILS.

CONSTRUCTION ISSUE

Status
CIVIL DRAWING

WEBBER DESIGN
STRUCTURAL ENGINEERING
MELBOURNE OFFICE: LEVEL 2, 31 QUEEN STREET, MELBOURNE, VIC, AUSTRALIA 3000
SYDNEY OFFICE: SUITE 301, LEVEL 3, 19A BOUNDARY STREET, RUSHCUTTERS BAY, NSW, AUSTRALIA 2011

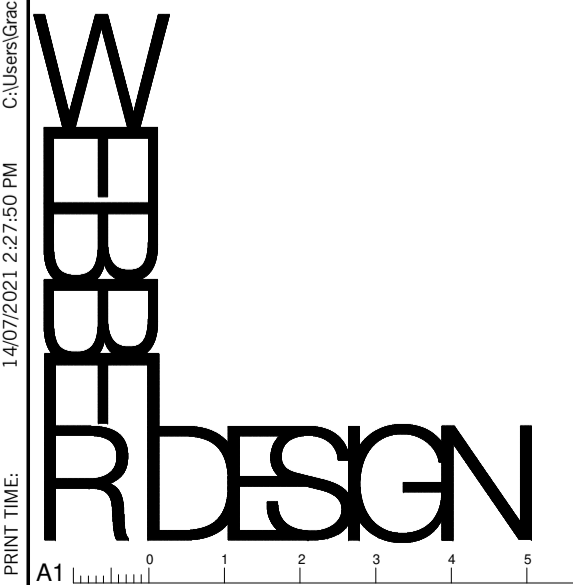
CLIENT
Monte Scientia Project

PROJECT
MONTE SANT ANGELO MERCY COLLEGE
128 MILLER ST, N. SYDNEY

TITLE
TYPICAL CIVIL DETAILS - SHEET 2

| | | |
|----------------------------|---------------------|-------------------|
| DATE AUGUST 20 | DESIGNED BY GP | CHECKED BY GP |
| SCALES AT A1 1:10, 1:20 | DRAWN BY GP | APPROVED BY PW |
| JOB No. 19133 | DRAWING No. C510 | REV. C1 |

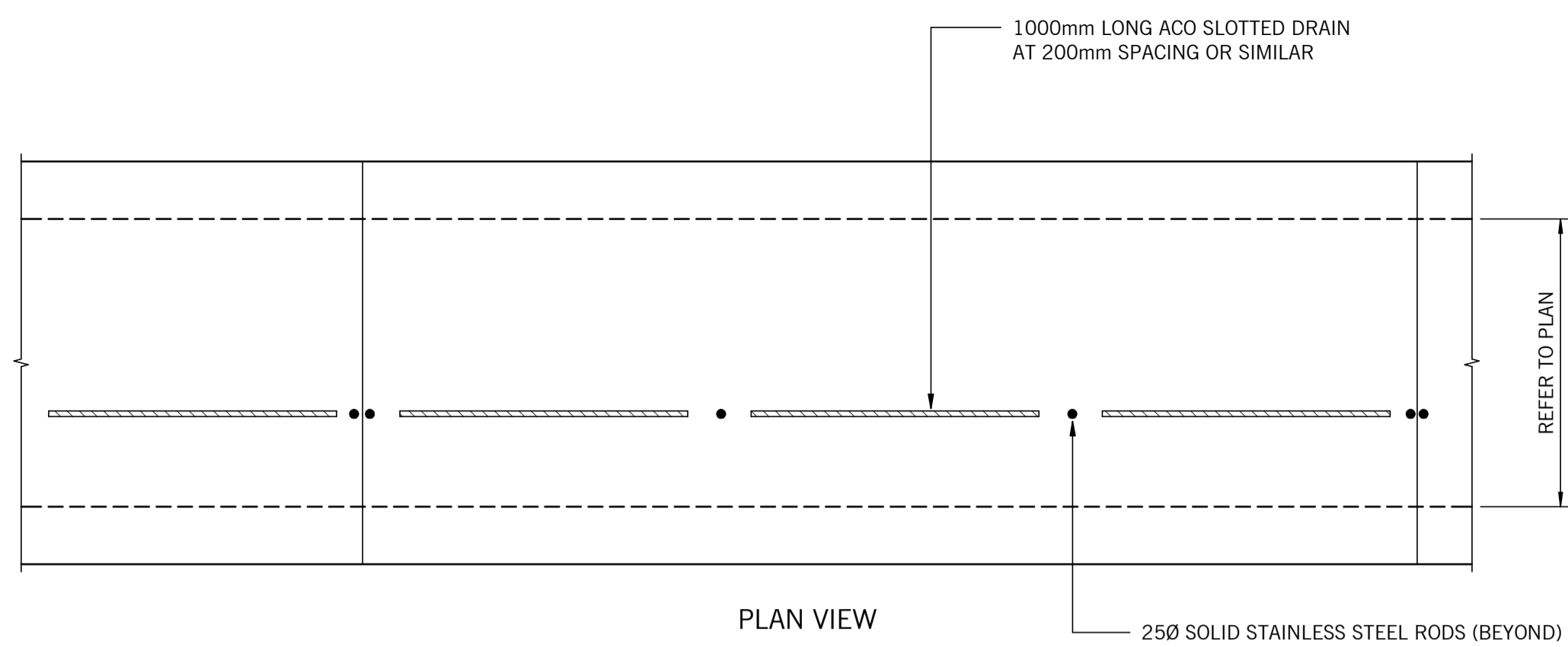
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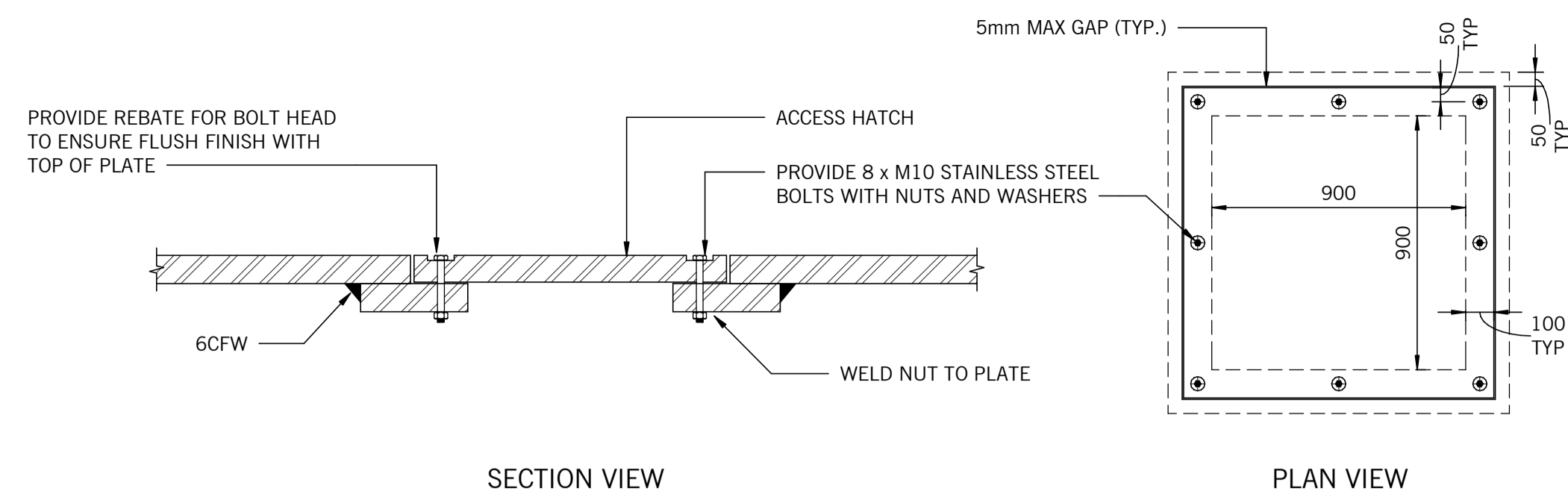
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| Rev. | Description | Eng. | Draft. | Date |
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| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 05.10.21 |
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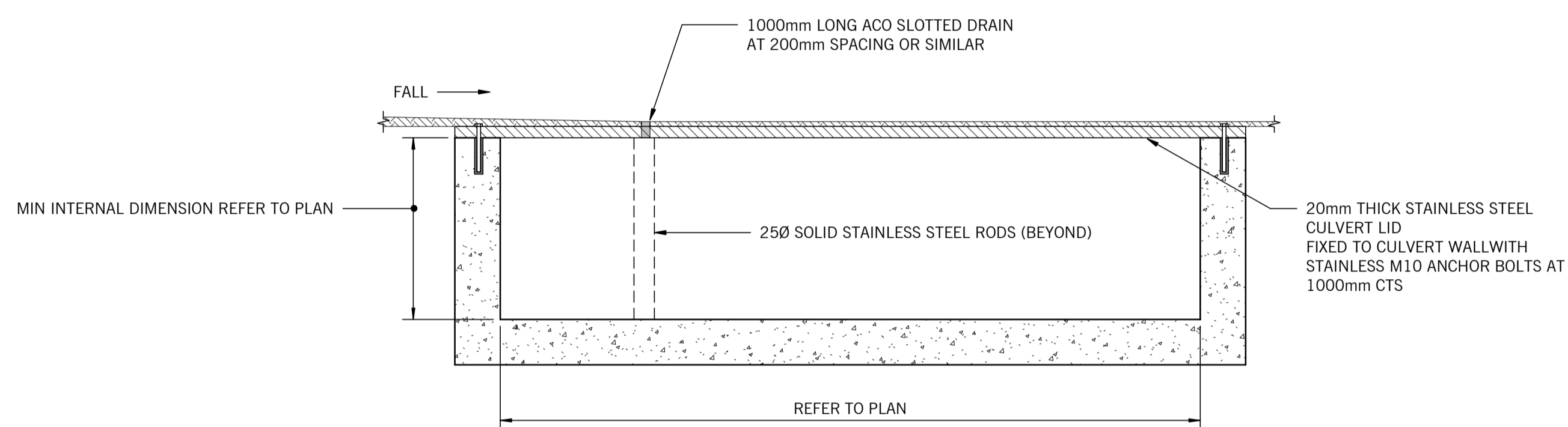


PLAN VIEW



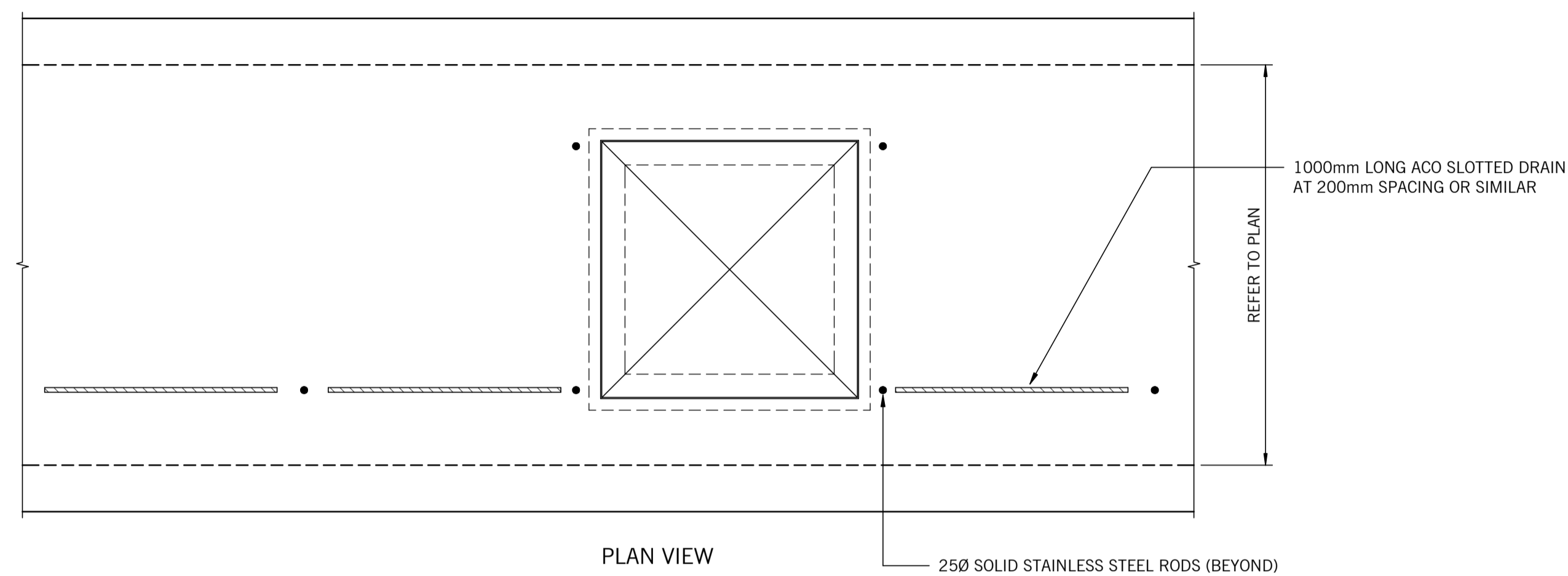
SECTION VIEW

PLAN VIEW



TYPICAL CULVERT DRAIN DETAILS

N.T.S.



PLAN VIEW

TYPICAL CULVERT ACCESS HATCH DETAILS

N.T.S.

CONSTRUCTION ISSUE

Status

STRUCTURAL DRAWING

WEBBER DESIGN
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CLIENT

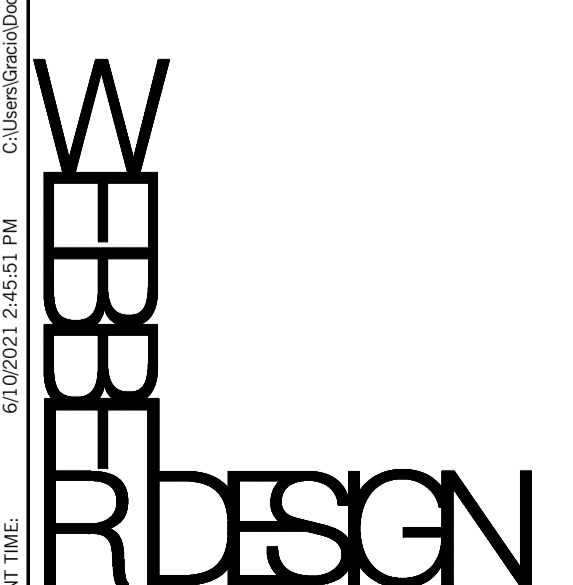
 Monte Scientia Project

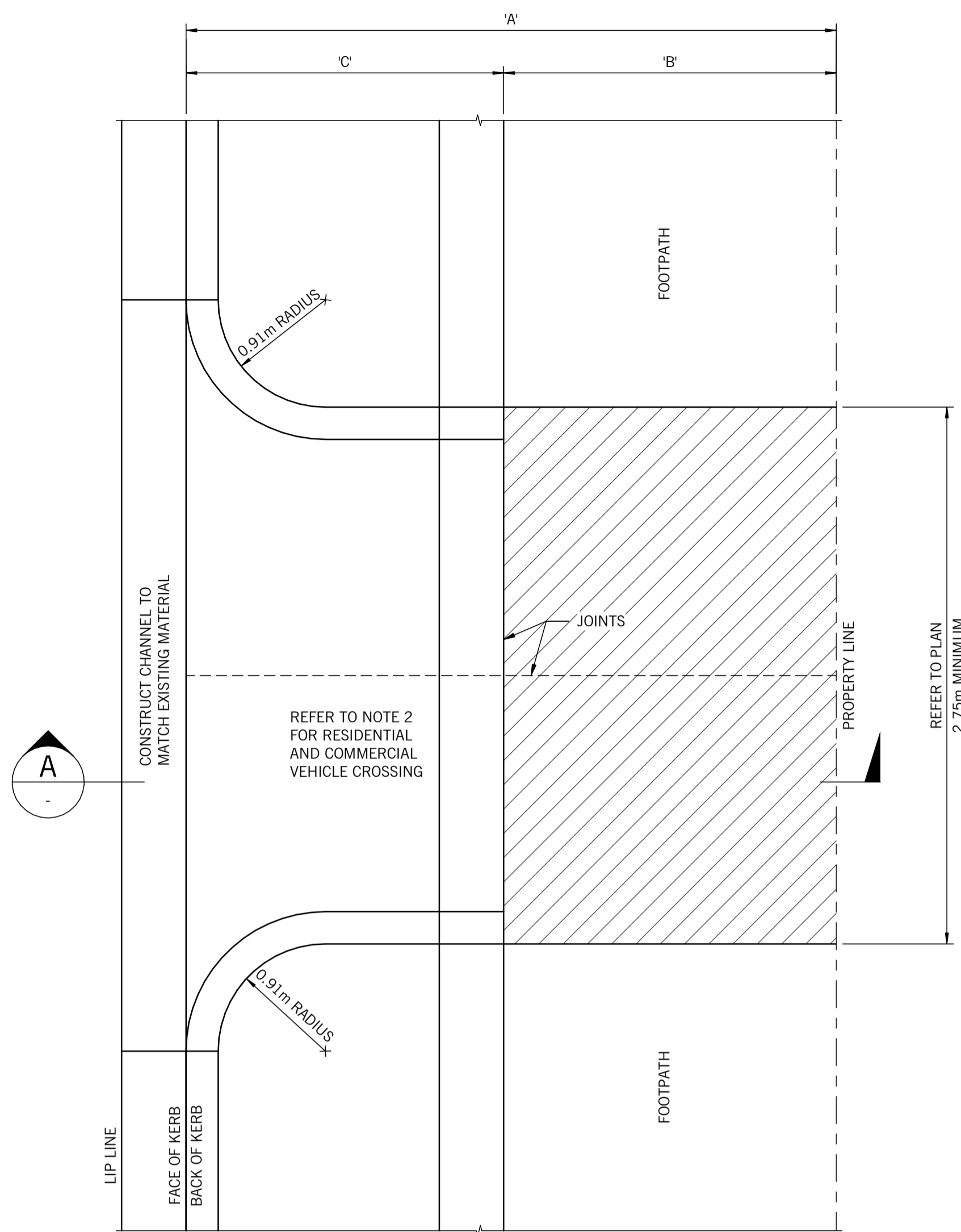
PROJECT
**MONTE SANT ANGELO
 MERCY COLLEGE
 128 MILLER ST, N. SYDNEY**

TITLE
**TYPICAL CIVIL DETAILS -
 SHEET 3**

| | | |
|--------------|-------------|-------------|
| DATE | DESIGNED BY | CHECKED BY |
| AUGUST 20 | GP | GP |
| SCALES AT A1 | DRAWN BY | APPROVED BY |
| 1:20 | GP | PW |
| JOB No. | DRAWING No. | REV. |
| 19133 | C520 | C1 |

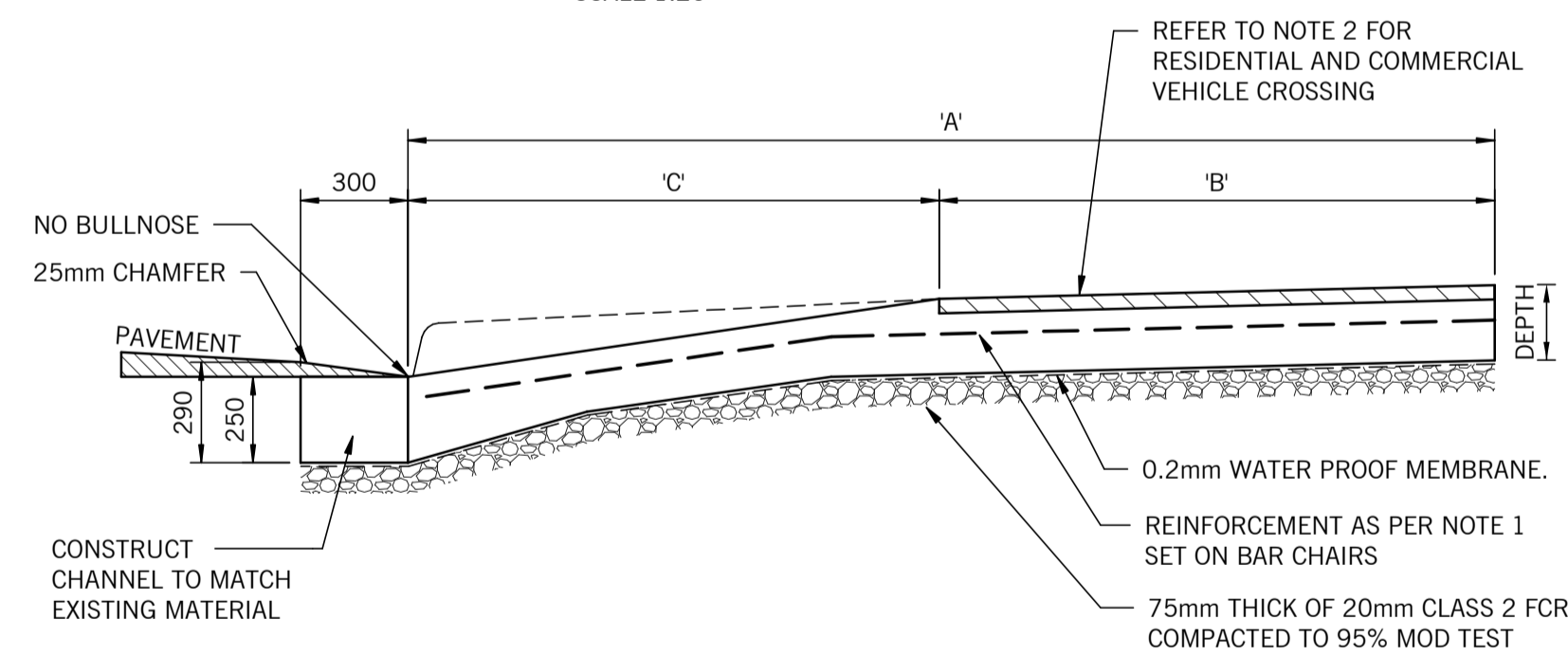
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ALSO REFER TO NORTH SYDNEY VEHICULAR CROSSING DETAILS

CROSSOVER PLAN
SCALE 1:20



SECTION A
SCALE 1:20

EACH OF THE RELATIVE GRADE CHANGE BETWEEN THE ROAD, SECTION C, SECTION B AND INSIDE THE PROPERTY LINE SHALL NOT EXCEED 12%

NOTES:

1. CONCRETE DETAIL

| TYPE | REINFORCEMENT | DEPTH OF SLAB |
|---|---------------|---------------|
| COMMERCIAL | SL82 | 150mm |
| CONCRETE STRENGTH: 32MPa AT 28 DAYS. PLACE REINFORCEMENT 50mm ABOVE CRUSHED ROCK BASE ON BAR CHAIRS. | | |
| SURFACE FINISH: TROWELLED AND GROOVED AT CHANGES OF GRADE. | | |

2. COMMERCIAL VEHICLE CROSSING

| FOOTPATH RESERVE WITH NATURE STRIP | | |
|------------------------------------|--|---|
| A | B* | C |
| EXISTING FOOTPATH RESERVE WIDTH | DIMENSION B AND C ARE GOVERNED BY THE EXISTING FOOTPATH AND NATURE STRIP WIDTHS. | |
| | MATERIAL: CONCRETE TO MATCH FOOTPATH MATERIAL. | MATERIAL: CONCRETE TO MATCH COLOUR OF KERB AND CHANNEL. |

3. COMMERCIAL VEHICLE CROSSING CONTINUED

| FOOTPATH RESERVE WITHOUT NATURE STRIP | | |
|---------------------------------------|--|---|
| A | B* | C |
| LESS THAN 1.75m | MATERIAL: CONSTRUCT ENTIRE VEHICLE CROSSING IN CONCRETE TO MATCH COLOUR OF FOOTPATH. | |
| BETWEEN 1.75m AND 2.25m | VARIES | 0.75m |
| BETWEEN 2.25m AND 5.00m | 1.50m | VARIES |
| GREATER THAN 5.00m | VARIES | 3.50m |
| | MATERIAL: CONCRETE TO MATCH FOOTPATH MATERIAL. | MATERIAL: CONCRETE TO MATCH COLOUR OF KERB AND CHANNEL. |

B* IF SECTION B OF THE CROSSING IS TO BE CONSTRUCTED IN ASPHALT, THEN REBATE CONCRETE BY 35mm (MIN.) TO ALLOW FOR ASPHALT WEARING COURSE. FOR COMMERCIAL: USE SIZE 10mm NOMINAL SIZE ASPHALT, TYPE 'N' ASPHALT

3. GENERAL

- THE COLOUR OF CONCRETE TO BE USED IS EITHER PLAIN OR CHARCOAL COLOURED DEPENDING ON THE COLOUR OF MATERIAL REQUIRED TO BE MATCHED.
- FOR CHARCOAL COLOURED CONCRETE USE HANSON 'EBONY' COLOUR OR 15kg 'BLACK OXIDE' BAYER 318 PER CUBIC METER CONCRETE OR APPROVED EQUIVALENT.
- ALL CROSSING SHALL HAVE A MINIMUM RISE OF 150mm FROM THE CHANNEL INVERT TO THE PROPERTY LINE.
- REFER TO AS/NZS 2890.1 FOR WIDER CROSSING, MINIMUM 5.5m

NOTE:

ALL EXTERNAL PAVEMENT, KERB & CHANNEL AND VEHICLE CROSSINGS REQUIRE COUNCIL APPROVAL (PENDING) OR ADOPT COUNCIL DETAILS

PAVEMENT TYPES

| TYPE | PROFILE COMPOSITION | SPECIFICATIONS |
|--|---------------------|--|
| ASPHALT ROAD PAVEMENT CONCRETE BASE | | 35mm DEPTH OF 10mm HMA, TYPE N 65mm DEPTH OF 14mm HMA, TYPE N 200mm CONCRETE BASE WITH F82 REINFORCEMENT TOP AND BTM. 50mm MIN. COVER, Fc=50 MPa 50mm DEPTH OF CLASS 2 COMPACTED CRUSHED ROCK |
| ASPHALT ROAD PAVEMENT CRUSHED ROCK BASE | | 35mm DEPTH OF 10mm HMA, TYPE N 65mm DEPTH OF 14mm HMA, TYPE N 150mm DEPTH OF CLASS 2 COMPACTED CRUSHED ROCK 150mm DEPTH OF CLASS 3 COMPACTED CRUSHED ROCK |
| ASPHALT FOOTPATH | | 35mm THICKNESS OF SIZE 7mm HMA, TYPE N 65mm THICKNESS OF 14mm HMA, TYPE N 50mm DEPTH OF CLASS 2 COMPACTED CRUSHED ROCK |
| CONCRETE PAVEMENT HEAVY DUTY | | 180mm R.C. SLAB, SL92 MESH TOP, Fc=32 MPa MIN. 200mm COMPACTED DEPTH OF CLASS 2 FINE CRUSHED ROCK |
| CONCRETE PAVEMENT LIGHT DUTY | | 125mm R.C. SLAB, SL72 MESH TOP, Fc=32 MPa. 150mm DEPTH OF CLASS 3 COMPACTED CRUSHED ROCK |
| CONCRETE FOOTPATH | | 100mm N25 CONCRETE WITH SL82 CENTAL 50mm DEPTH OF CLASS 2 COMPACTED CRUSHED ROCK |
| BLUESTONE ROAD PAVEMENT | | 80mm THICK BLUE STONE PAVERS BEDDING (MIN. THICKNESS 50mm) 200mm R.C. SLAB WITH SL82 MESH TOP AND BOTTOM, Fc=32 MPa 50mm DEPTH OF CLASS 2 COMPACTED CRUSHED ROCK |
| BLUESTONE ROAD ON SUSPENDED SLAB | | 80mm THICK BLUE STONE PAVERS BEDDING (MIN. THICKNESS 50mm) SUSPENDED SLAB REFER TO STRUCTURAL DRAWINGS FOR SPECIFICATIONS |
| BLUESTONE FOOTPATH PAVEMENT | | 40mm THICK BLUE STONE PAVERS BEDDING (MIN. THICKNESS 25mm) 100mm R.C. SLAB WITH SL72 MESH CENTRAL, Fc=32 MPa 50mm DEPTH OF CLASS 2 COMPACTED CRUSHED ROCK |
| POROUS ASPHALT PAVEMENT | | 30mm THICK LAYER OF OPEN GRADED POROUS ASPHALT PAVEMENT 20% VOIDS. 30mm LAYER OF 10mm Ø SINGLE SIZE AGGREGATE, CEMENT STABILISED. 500mm MIN. LAYER OF LARGE SINGLE SIZE AGGREGATE 40% VOID, CEMENT STABILISED GEOTEXTILE FILTER FABRIC |
| POROUS PAVER PAVEMENT | | POROUS PAVER AND BEDDING MATERIAL TO LANDSCAPE ARCHITECT DETAILS AND REQUIREMENTS. GEOTEXTILE FILTER FABRIC 500mm MIN. LAYER OF LARGE SINGLE SIZE AGGREGATE 40% VOID, CEMENT STABILISED GEOTEXTILE FILTER FABRIC |
| DRAINED SLAB DETAIL | | RC SLAB, AS SPECIFIED ON PLAN 2 LAYERS OF 0.02mm MOISTURE BARRIER 150mm MIN. LAYER OF FREE DRAINING ROCK, SINGLE SIZE AGGREGATE WITH 100mm Ø AG DRAINAGE LINES, INSTALLED AT 4m MAX. CTS. (IN GEOTEXTILE SOCK) GEOTEXTILE FILTER FABRIC |
| HYDROSTATIC SLAB DETAIL | | HYDROSTATIC SLAB TO STRUCTURAL ENGINEERS DETAIL WATERPROOFING MEMBRANE TO SPECIALIST CONTRACTORS DETAILS 50mm MIN. LAYER OF BLINDING CONCRETE 2 LAYERS OF 0.02mm MOISTURE BARRIER 150mm MIN. LAYER OF FREE DRAINING ROCK SINGLE SIZE AGGREGATE WITH 90mm Ø AG DRAINAGE LINES INSTALLED AT 6m MAX. CTS. (IN GEOTEXTILE SOCK) GEOTEXTILE FILTER FABRIC PROVIDE RELIEF POINTS AS DETAILED |

NOTE:

- SUB BASE TO BE PREPARED TO MINIMUM CBR OF 2.5.
- ALL CRUSHED ROCK LAYERS SPECIFIED TO BE COMPACTED TO 98% SMDD.
- PROVIDE SHRINKAGE CONTROL JOINTS TO ALL CONCRETE PAVEMENTS, CONFIRM WITH ENGINEER.
- PROVIDE OVERFLOW PIPE CONNECTED TO ADJACENT STORMWATER SYSTEM FOR POROUS PAVEMENTS.

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|------|--------------------------|------|--------|----------|
| P1 | FOR COORDINATION | GP | GP | 28.08.20 |
| P2 | FOR COORDINATION | GP | GP | 11.09.20 |
| P3 | ISSUED FOR PRICING | GP | GP | 16.09.20 |
| T1 | ISSUED FOR PRICING | GP | GP | 16.10.20 |
| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |

CONSTRUCTION ISSUE

Status

CIVIL DRAWING

STRUCTURAL ENGINEERING

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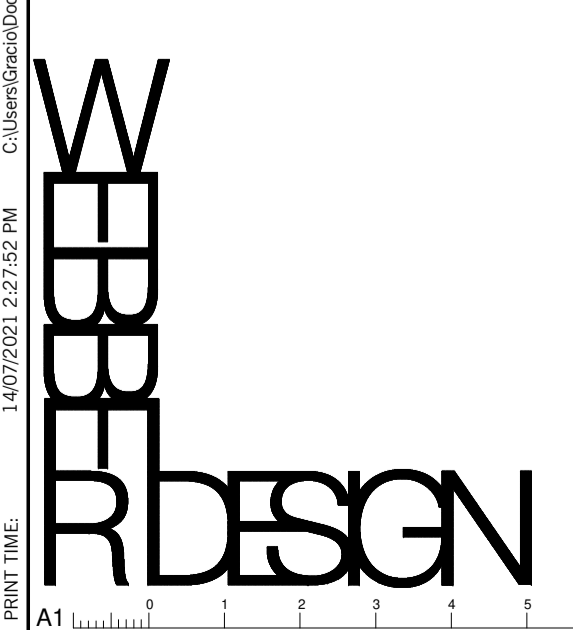
PROJECT

**MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY**

**TYPICAL PAVEMENT
DETAILS**

| DATE | DESIGNED BY | CHECKED BY |
|--------------|-------------|-------------|
| AUGUST 20 | GP | GP |
| SCALES AT A1 | DRAWN BY | APPROVED BY |
| 1:20 | GP | PW |
| JOB No. | DRAWING No. | REV. |
| 19133 | C600 | C1 |

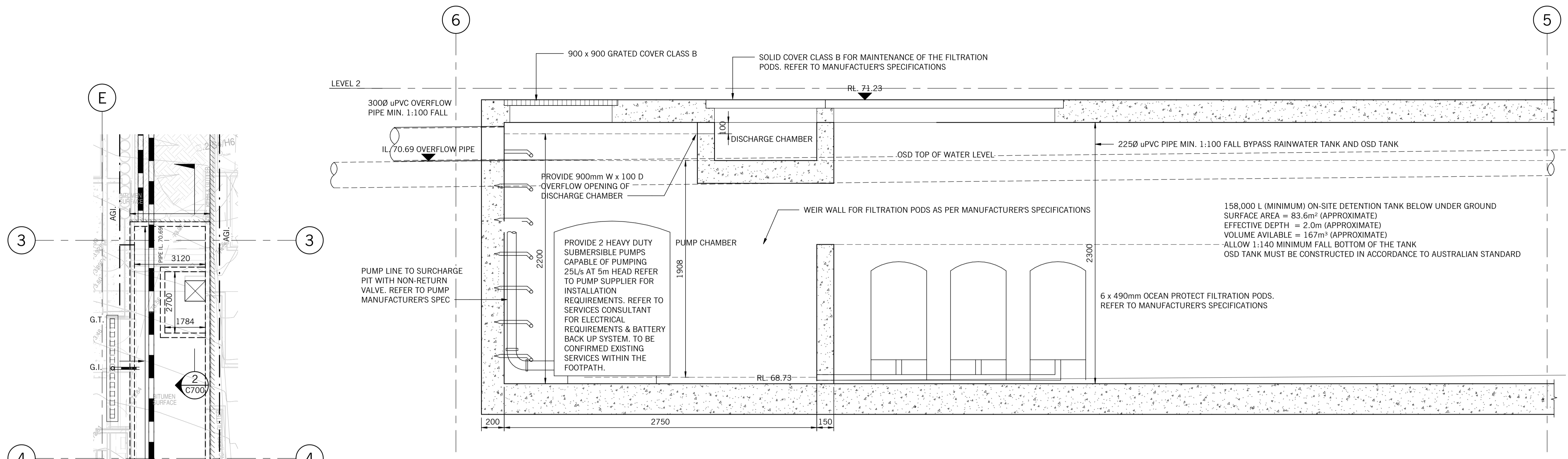
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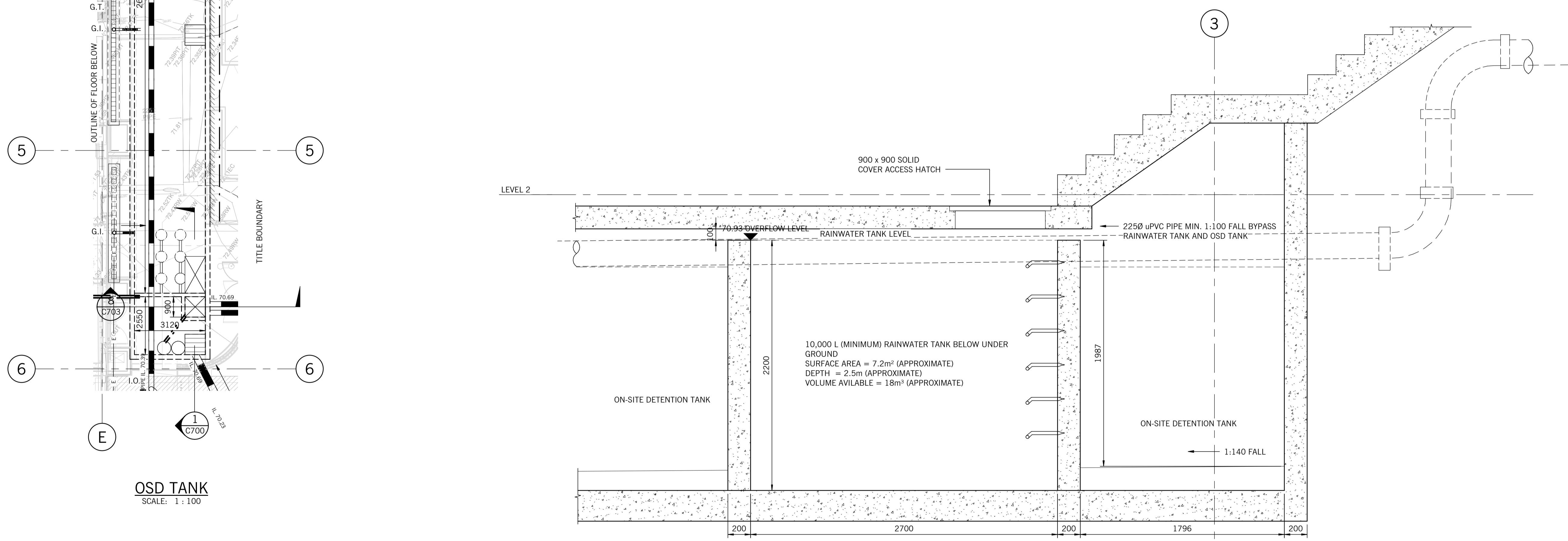
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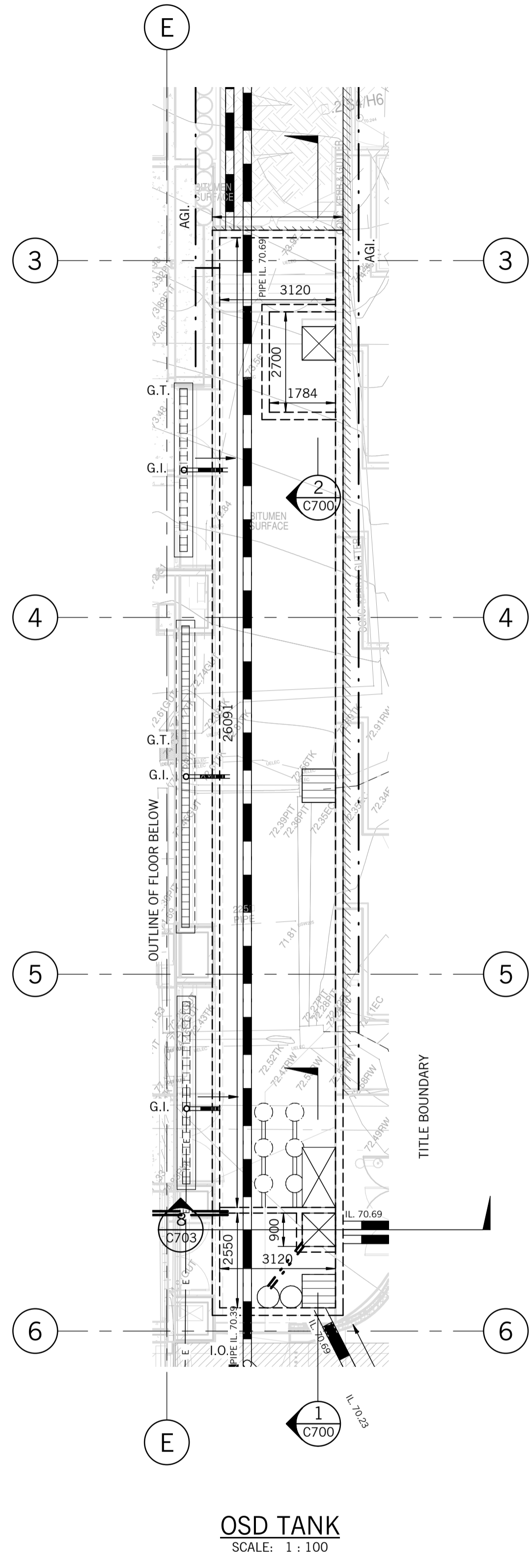
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| P1 | FOR COORDINATION | GP | GP | 28.08.20 |
| P2 | FOR COORDINATION | GP | GP | 11.09.20 |
| P3 | ISSUED FOR PRICING | GP | GP | 16.09.20 |
| T1 | ISSUED FOR PRICING | GP | GP | 16.10.20 |
| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | REVISED AS CLOUDED | GP | GP | 17.03.21 |
| T4 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| T5 | REVISED AS CLOUDED | GP | GP | 23.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |



SECTION 1
SCALE: 1 : 20



SECTION 2
SCALE: 1 : 20



OSD TANK
SCALE: 1 : 100

CONSTRUCTION ISSUE

Status
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Monte Scientia Project

PROJECT
**MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY**

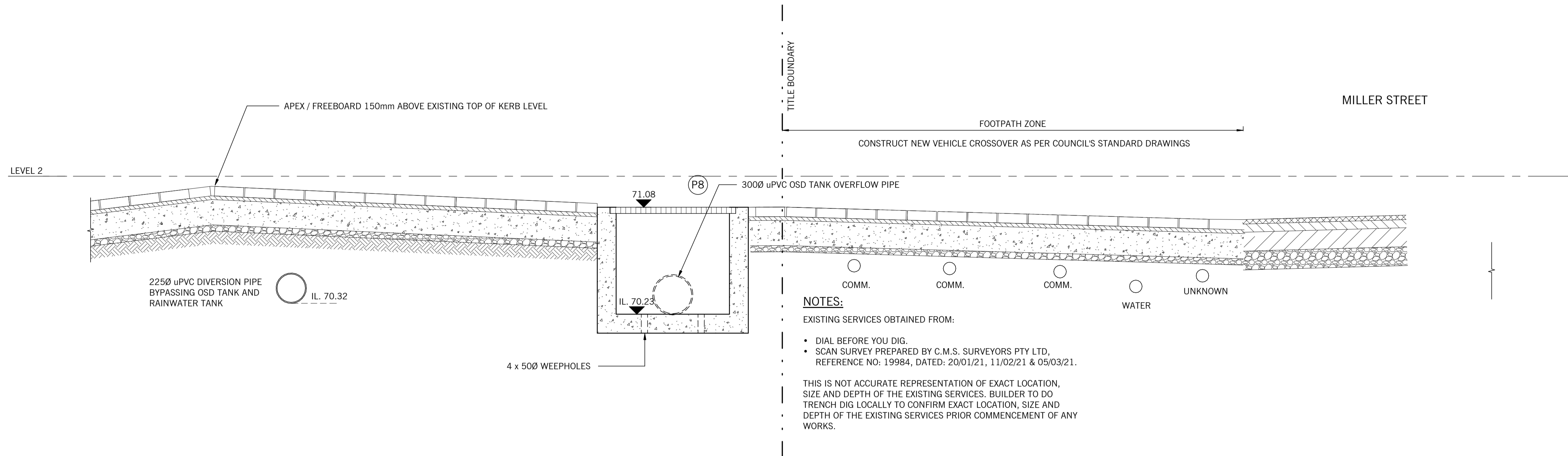
TITLE
CIVIL SECTIONS - SHEET 1

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| SCALES AT A1 1:20, 1:100 | DRAWN BY GP | APPROVED BY PW |
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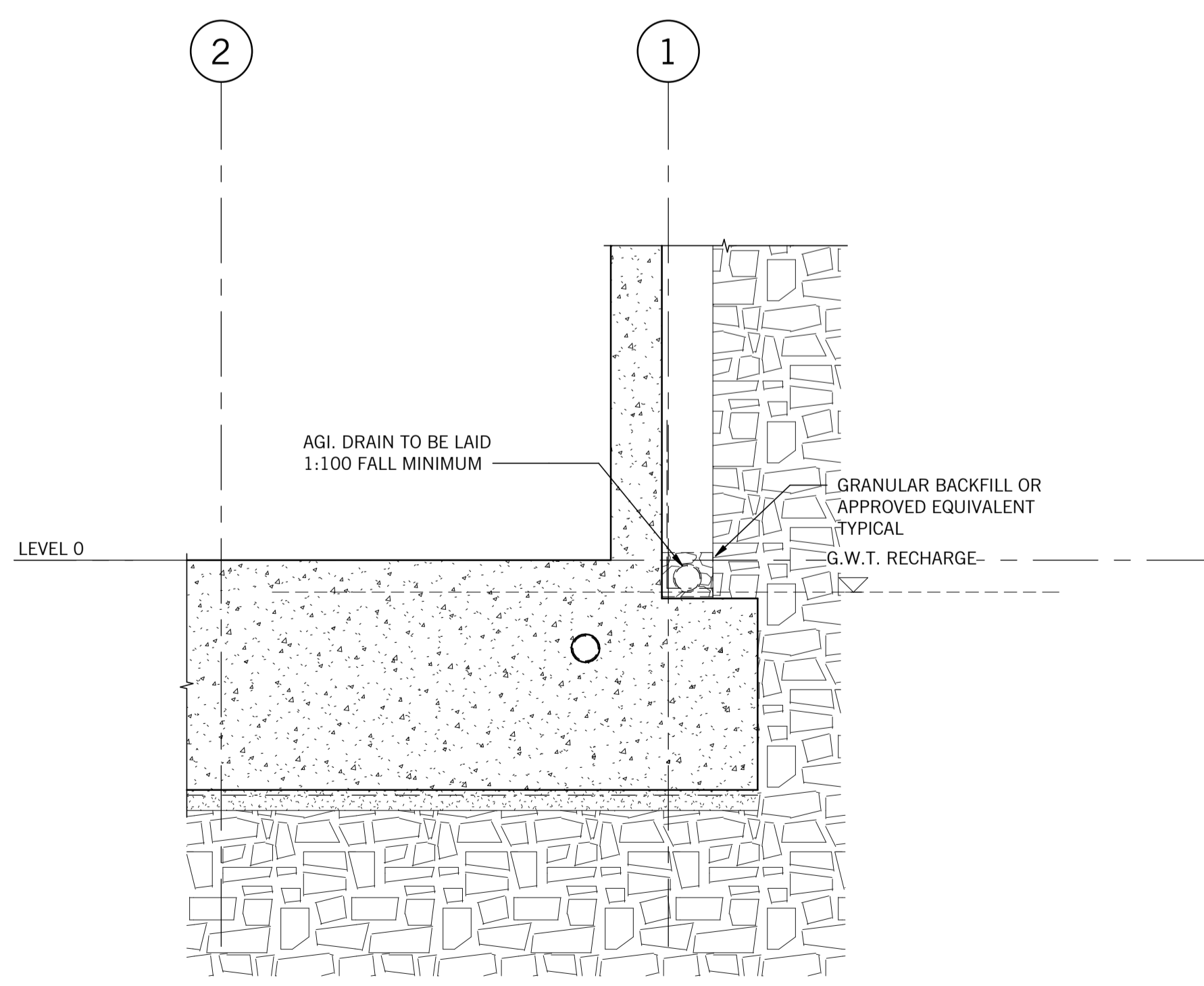
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| P1 | FOR COORDINATION | GP | GP | 28.08.20 |
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| T3 | REVISED AS CLOUDED | GP | GP | 17.03.21 |
| T4 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |

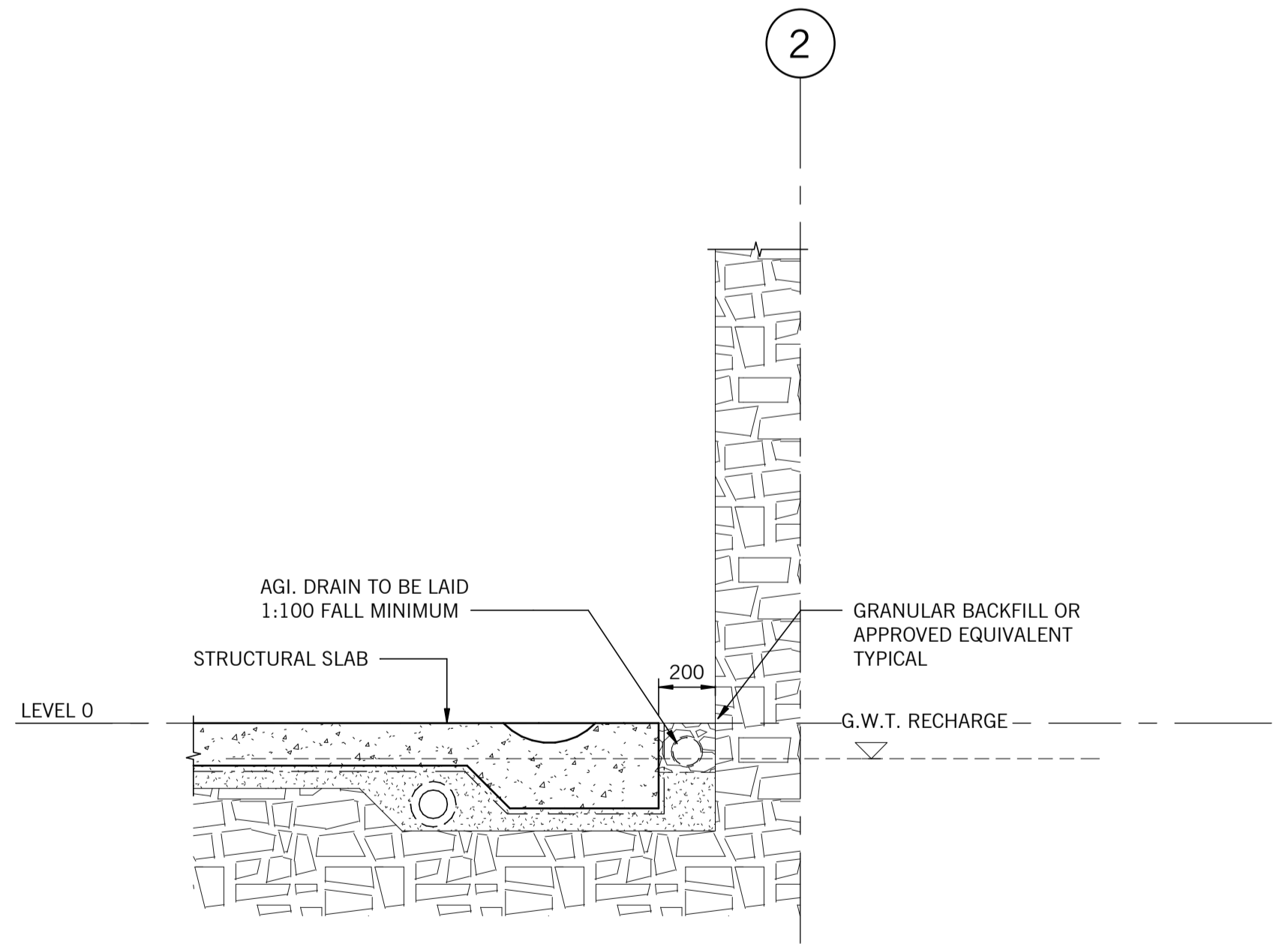


NOTES:
 EXISTING SERVICES OBTAINED FROM:
 • DIAL BEFORE YOU DIG.
 • SCAN SURVEY PREPARED BY C.M.S. SURVEYORS PTY LTD, REFERENCE NO: 19984, DATED: 20/01/21, 11/02/21 & 05/03/21.
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SECTION 3
 SCALE: 1 : 20
 C090



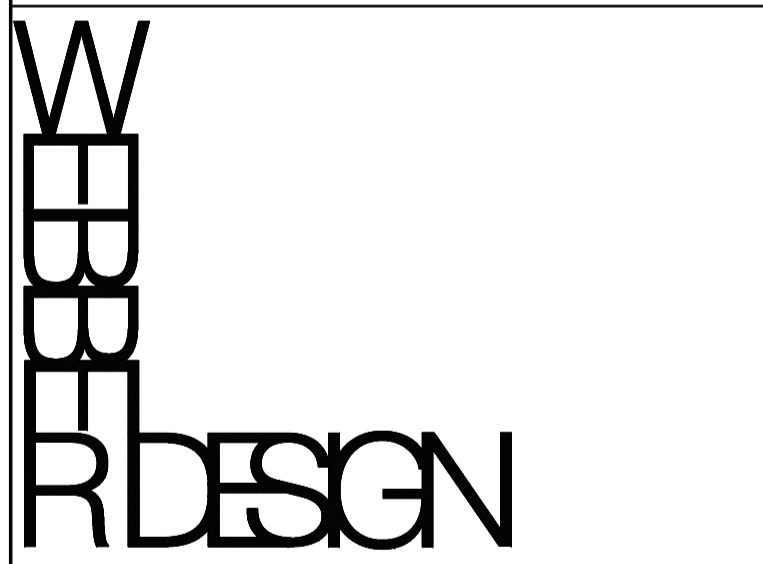
SECTION 5
 SCALE: 1 : 20
 C070



SECTION 4
 SCALE: 1 : 20
 C070

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Status
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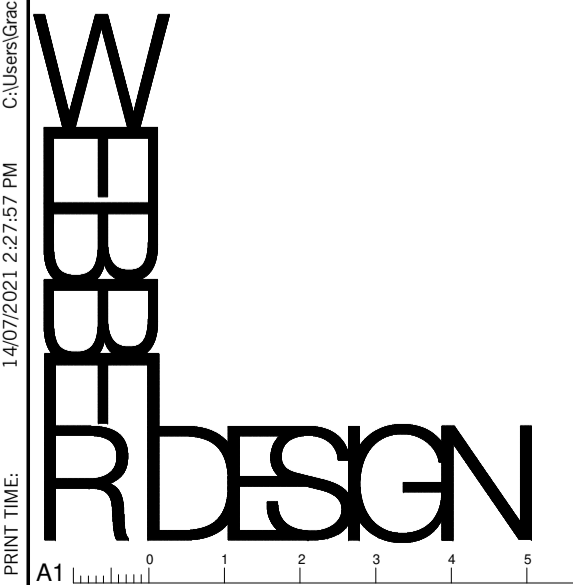


PROJECT
**MONTE SANT ANGELO
 MERCY COLLEGE
 128 MILLER ST, N. SYDNEY**

CIVIL SECTIONS - SHEET 2

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| DATE AUGUST 20 | DESIGNED BY GP | CHECKED BY GP |
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| JOB No. 19133 | DRAWING No. C701 | REV. C1 |

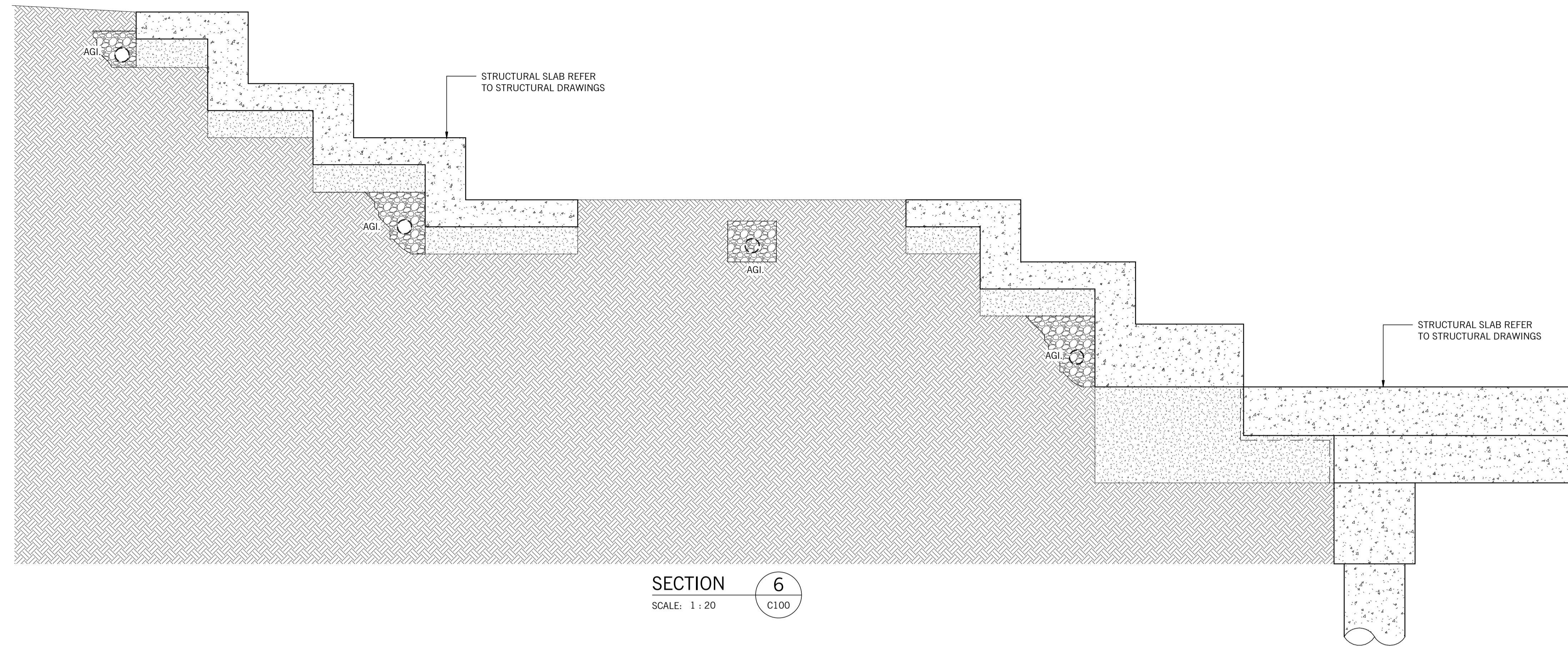
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|------|--------------------------|------|--------|----------|
| P1 | ISSUED FOR PRICING | GP | GP | 16.09.20 |
| T1 | ISSUED FOR PRICING | GP | GP | 16.10.20 |
| T2 | ISSUED FOR CERTIFICATION | GP | GP | 21.01.21 |
| T3 | REVISED AS CLOUDED | GP | GP | 17.03.21 |
| T4 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |



SECTION 6
SCALE: 1 : 20
C100

CONSTRUCTION ISSUE

Status
CIVIL DRAWING

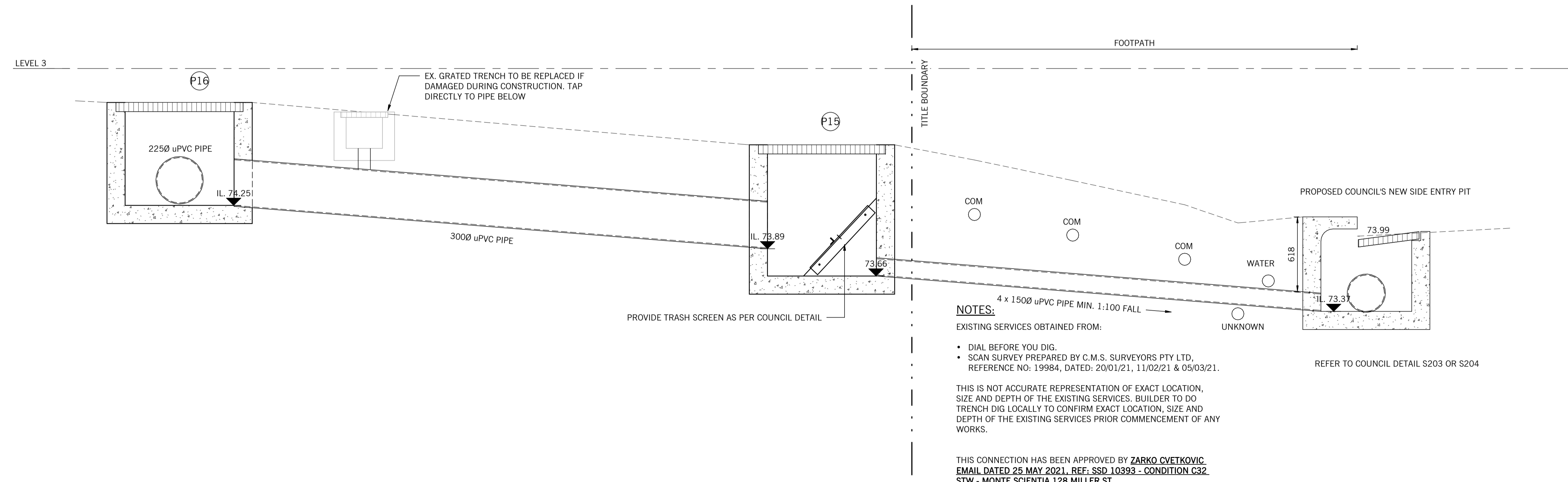
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SYDNEY OFFICE: SUITE 301 LEVEL 3, 19A BOUNDARY STREET RUSHCUTTERS BAY, NSW, AUSTRALIA 2011 T: +61 2 9690 2488



PROJECT
**MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY**

TITLE
CIVIL SECTIONS - SHEET 3

| | | |
|----------------------|---------------------|-------------------|
| DATE AUGUST 20 | DESIGNED BY GP | CHECKED BY GP |
| SCALES AT A1 1:20 | DRAWN BY GP | APPROVED BY PW |
| JOB No. 19133 | DRAWING No. C702 | REV. C1 |

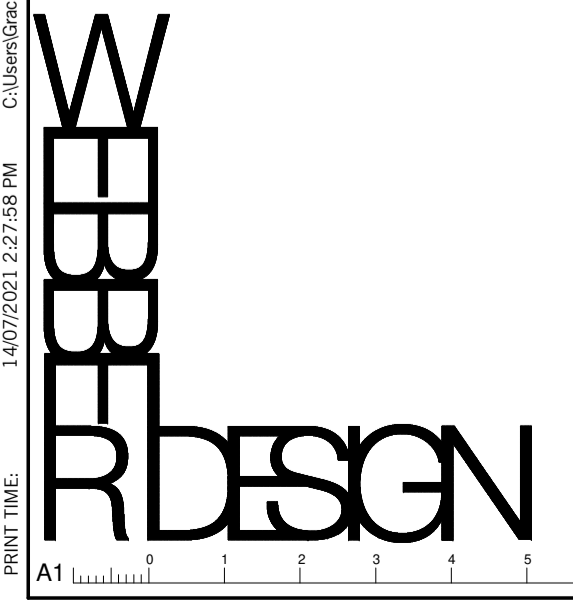


NOTES:
4 x 1500 uPVC PIPE MIN. 1:100 FALL
EXISTING SERVICES OBTAINED FROM:
• DIAL BEFORE YOU DIG.
• SCAN SURVEY PREPARED BY C.M.S. SURVEYORS PTY LTD, REFERENCE NO: 19984, DATED: 20/01/21, 11/02/21 & 05/03/21.

THIS IS NOT ACCURATE REPRESENTATION OF EXACT LOCATION, SIZE AND DEPTH OF THE EXISTING SERVICES. BUILDER TO DO TRENCH DIG LOCALLY TO CONFIRM EXACT LOCATION, SIZE AND DEPTH OF THE EXISTING SERVICES PRIOR COMMENCEMENT OF ANY WORKS.

THIS CONNECTION HAS BEEN APPROVED BY ZARKO CVETKOVIC. EMAIL DATED 25 MAY 2021. REF: SSD 10393 - CONDITION C32. STW - MONTE SCIENTIA 128 MILLER ST.

SECTION 7
SCALE: 1 : 20
C260

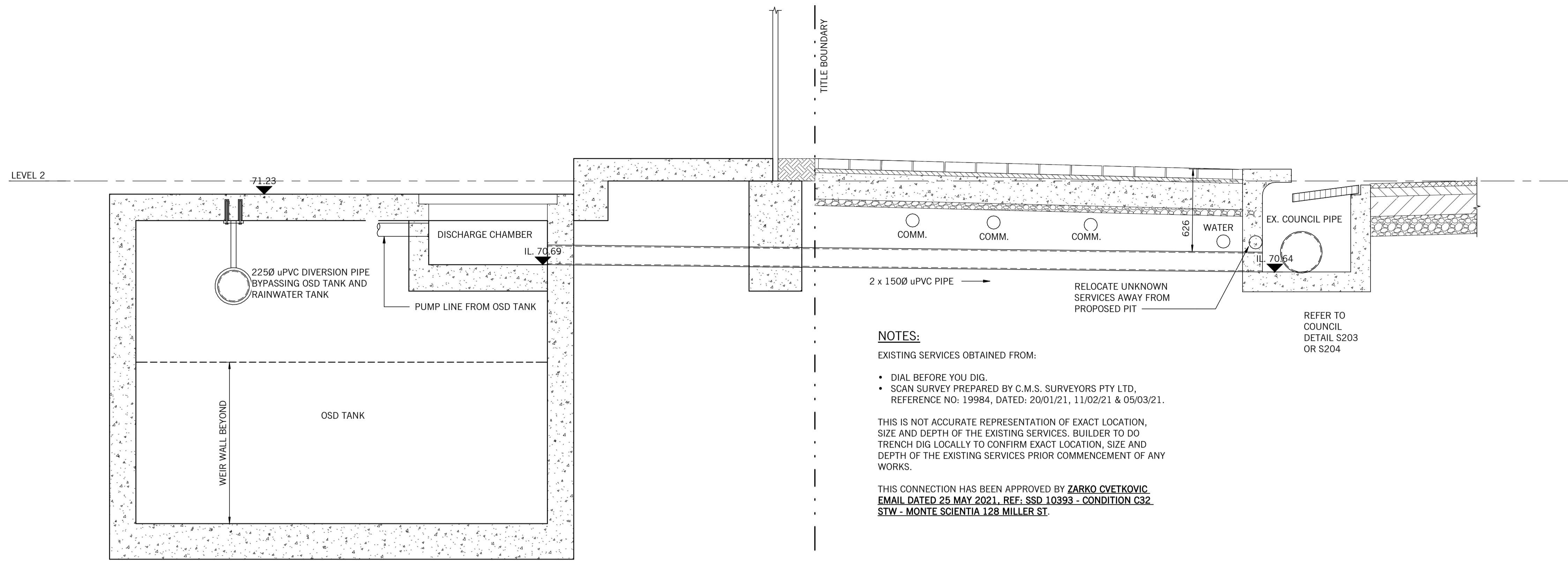


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| Rev. | Description | Eng. | Draft. | Date |
|------|--------------------------|------|--------|----------|
| T1 | ISSUED FOR CERTIFICATION | GP | GP | 17.03.21 |
| T2 | FOR FINAL COORDINATION | GP | GP | 03.06.21 |
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 14.07.21 |
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NOTES:
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 • DIAL BEFORE YOU DIG.
 • SCAN SURVEY PREPARED BY C.M.S. SURVEYORS PTY LTD, REFERENCE NO: 19984, DATED: 20/01/21, 11/02/21 & 05/03/21.

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SECTION 8
 SCALE: 1 : 20
 C080

CONSTRUCTION ISSUE

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STRUCTURAL ENGINEERING

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Monte Scientia Project

PROJECT

MONTE SANT ANGELO
 MERCY COLLEGE
 128 MILLER ST, N. SYDNEY

TITLE

CIVIL SECTIONS - SHEET 4

| | | |
|--------------|-------------|-------------|
| DATE | DESIGNED BY | CHECKED BY |
| AUGUST 20 | GP | GP |
| SCALES AT A1 | DRAWN BY | APPROVED BY |
| 1:20 | GP | PW |
| JOB No. | DRAWING No. | REV. |
| 19133 | C703 | C1 |

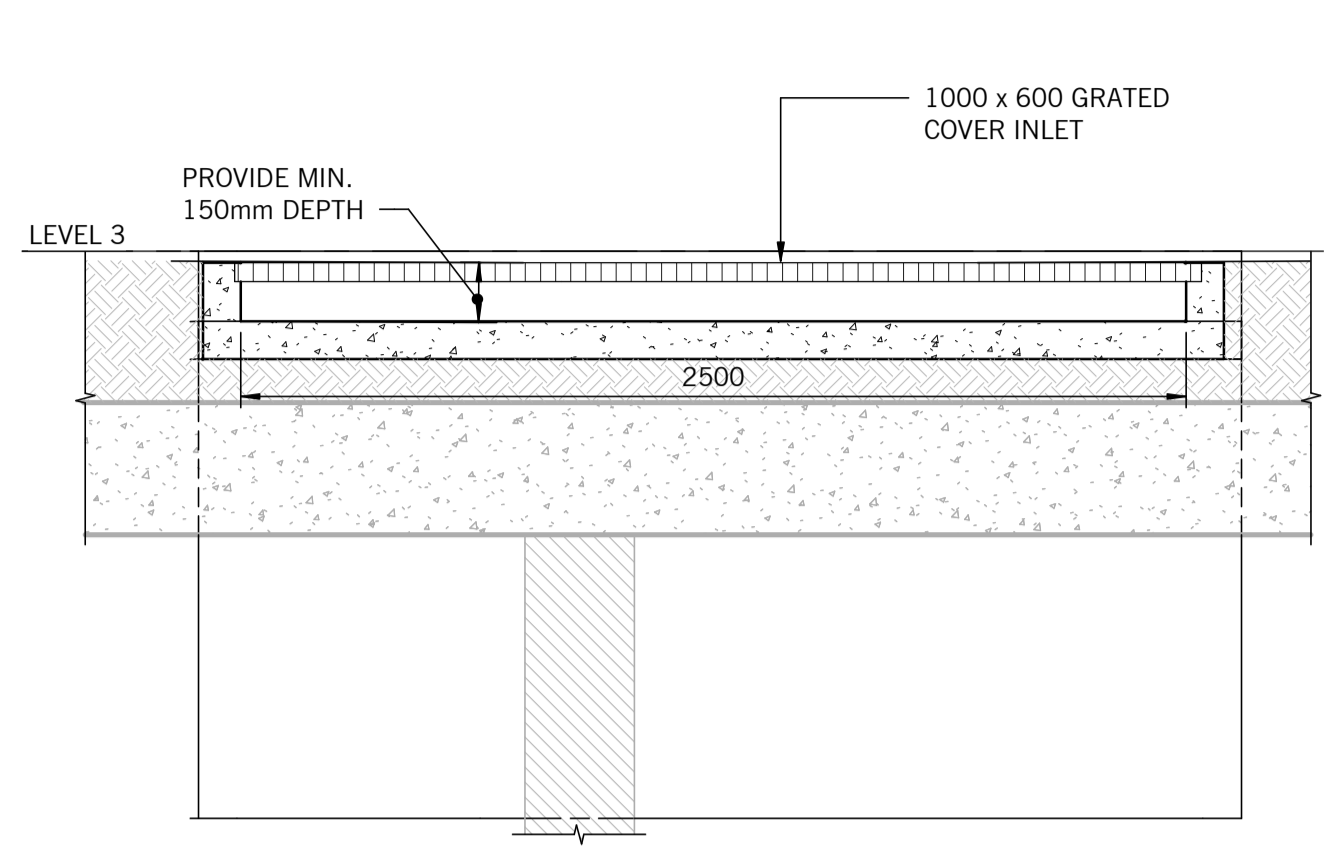
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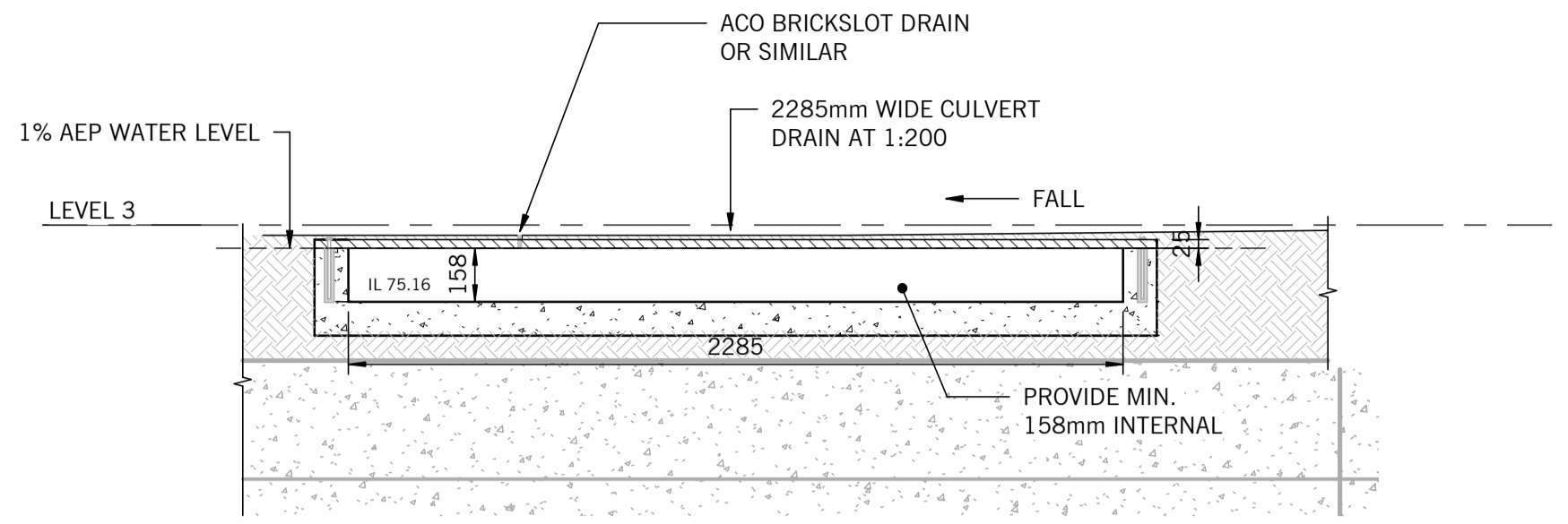
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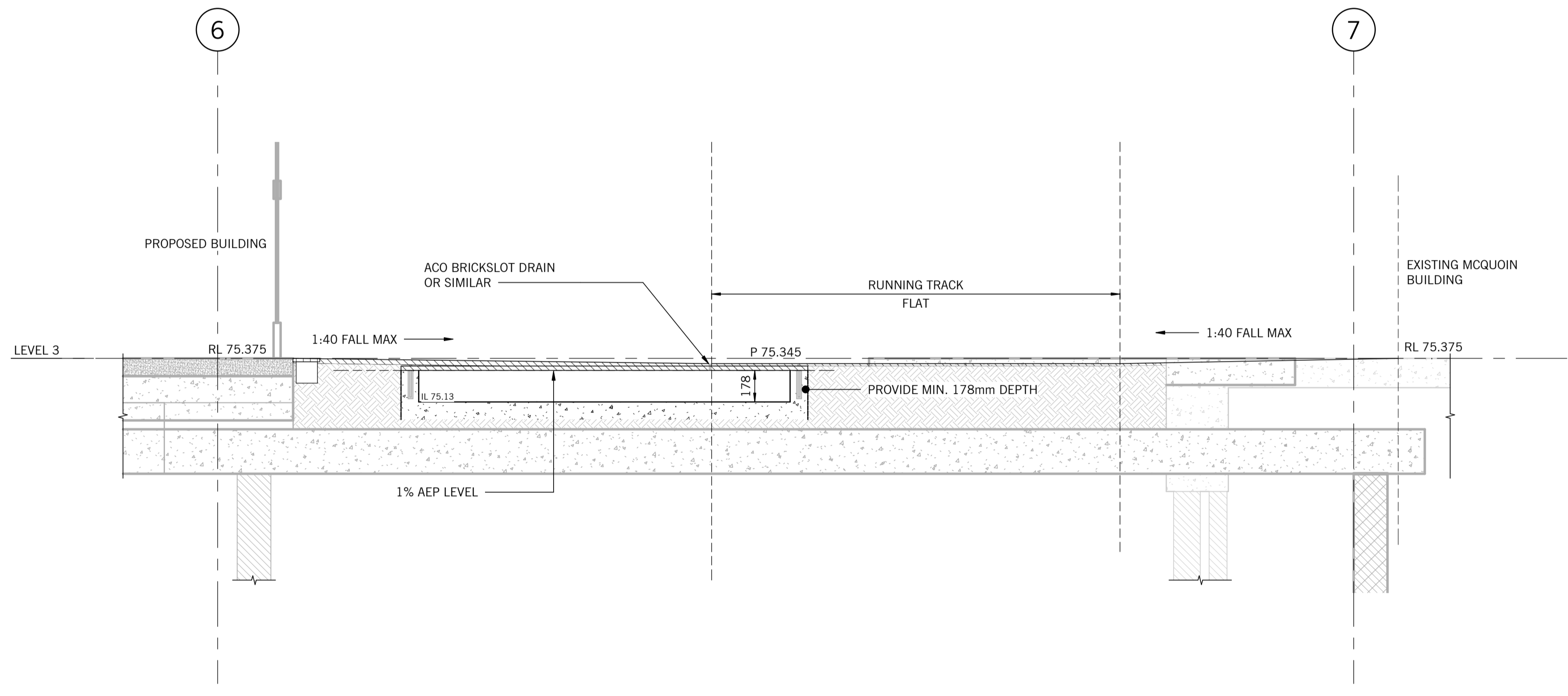
| Rev. | Description | Eng. | Draft. | Date |
|------|-------------------------|------|--------|----------|
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 10.09.21 |
| C2 | GENERALLY REVISED | GP | GP | 06.10.21 |



SECTION 9
SCALE: 1 : 20
C060



SECTION 10
SCALE: 1 : 20
C060



SECTION 11
SCALE: 1 : 20
C060

CONSTRUCTION ISSUE

Status
CIVIL DRAWING

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PROJECT
MONTE SANT ANGELO
MERCY COLLEGE
128 MILLER ST, N. SYDNEY

TITLE
CIVIL SECTIONS - SHEET 5

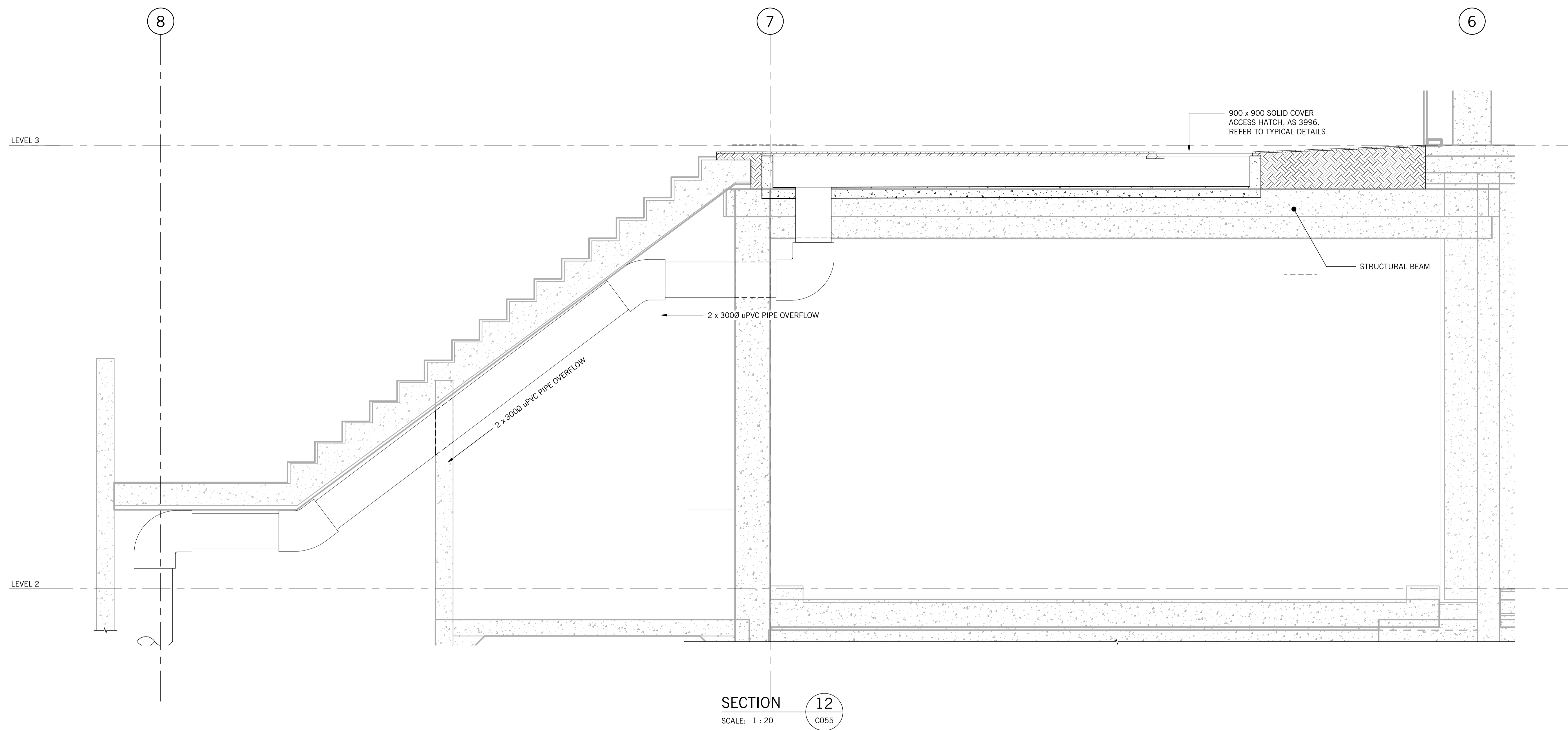
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| JOB No. 19133 | DRAWING No. C704 | REV. C2 |

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|------|-------------------------|------|--------|----------|
| C1 | ISSUED FOR CONSTRUCTION | GP | GP | 10.09.21 |
| C2 | GENERALLY REVISED | GP | GP | 06.10.21 |



CONSTRUCTION ISSUE

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 Monte Scientia Project
 MONITORING, ASSESSMENT, INVESTIGATION

PROJECT
**MONTE SANT ANGELO
 MERCY COLLEGE
 128 MILLER ST, N. SYDNEY**

TITLE
CIVIL SECTIONS - SHEET 6

| | | |
|----------------------|---------------------|-------------|
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