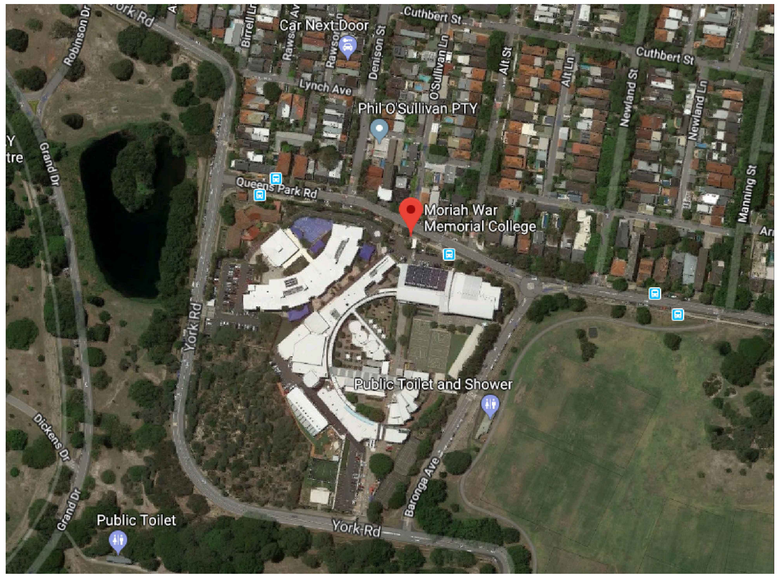
MORIAH COLLEGE REDEVELOPMENT

QUEENS PARK RD, QUEENS PARK

CIVIL SERVICES



LOCALITY PLAN

DRAWING LIST

C0000	COVER SHEET LEGEND OF SYMBOLS GENERAL NOTES AND DRAWING LIST
C1000	NOTES SHEETS 1 OF 2
C1100	NOTES SHEETS 2 OF 2
C2000	EROSION AND SEDIMENTATION CONTROL PLAN LAYOUT PART 1
C2001	EROSION AND SEDIMENTATION CONTROL PLAN LAYOUT PART 2
C2002	EROSION AND SEDIMENTATION CONTROL PLAN LAYOUT PART 3
C2003	EROSION AND SEDIMENTATION CONTROL PLAN LAYOUT PART 4
C3000	GENERAL ARRANGEMENT LAYOUT PART 1
C3001	GENERAL ARRANGEMENT LAYOUT PART 2
C3002	GENERAL ARRANGEMENT LAYOUT PART 3
C3003	GENERAL ARRANGEMENT LAYOUT PART 4
C4000	LONG SECTIONS SHEETS 1 OF 8
C4100	LONG SECTIONS SHEETS 2 OF 8
C4200	LONG SECTIONS SHEETS 3 OF 8
C4300	LONG SECTIONS SHEETS 4 OF 8
C4400	LONG SECTIONS SHEETS 5 OF 8
C4500	LONG SECTIONS SHEETS 6 OF 8
C4600	LONG SECTIONS SHEETS 7 OF 8
C4700	LONG SECTIONS SHEETS 8 OF 8
C5000	DETAILS
C6000	STRUCTURE SCHEDULES SHEETS 1 OF 2
C6100	STRUCTURE SCHEDULES SHEETS 2 OF 2

LEGEND

- PROPOSED STORMWATER DRAINAGE PIPE, SIZE & FLOW DIRECTION (Ø225 SW)
- EXISTING STORMWATER DRAINAGE PIPE TO BE RETAINED, SIZE & FLOW DIRECTION (Ø225 SW)
- EXISTING STORMWATER DRAINAGE PIPE TO BE DECOMMISSIONED, SIZE & FLOW DIRECTION (Ø225 SW)
- EXISTING STORMWATER DRAINAGE PIPE TO BE REPLACED, SIZE & FLOW DIRECTION (Ø225 SW)
- PROPOSED SURFACE INLET PIT
- EXISTING SURFACE INLET PIT TO BE RETAINED
- EXISTING SURFACE INLET PIT TO BE DECOMMISSIONED
- EXISTING SURFACE INLET PIT TO BE REPLACED
- PROPOSED STORMWATER DRAINAGE JUNCTION PIT
- EXISTING STORMWATER DRAINAGE JUNCTION PIT TO BE RETAINED
- EXISTING STORMWATER DRAINAGE JUNCTION PIT TO BE DECOMMISSIONED
- EXISTING STORMWATER DRAINAGE JUNCTION PIT TO BE REPLACED
- PROPOSED STORMWATER DRAINAGE HEADWALL
- EXISTING STORMWATER DRAINAGE HEADWALL TO BE RETAINED
- EXISTING STORMWATER DRAINAGE HEADWALL TO BE DECOMMISSIONED
- SHEET FLOW ARROW
- PROPOSED GRATED DRAIN, WIDTH X DEPTH & FLOW DIRECTION (300 X 300)
- EXISTING GRATED DRAIN TO BE RETAINED, WIDTH X DEPTH & FLOW DIRECTION (300 X 300)
- EXISTING GRATED DRAIN TO BE DECOMMISSIONED, WIDTH X DEPTH & FLOW DIRECTION (300 X 300)
- PROPOSED STORMWATER DRAINAGE SWALE / CHANNEL & CHANNEL NUMBER (CH-1)
- PIT NUMBER - LINE NUMBER (3-1)
- PROPOSED STORMWATER DRAINAGE RECTANGULAR BOX CULVERT, SIZE & FLOW DIRECTION (900x300)
- PROPOSED DOWNPIPE
- GEOTEXTILE INLET FILTER / SANDBAG KERB INLET SEDIMENT TRAP
- STABILISED SITE ACCESS / ENERGY DISSIPATOR
- BARRIER FENCE (B)
- EARTH BANK / WEIR
- SEDIMENT FENCE
- PROPOSED STOCKPILE LOCATION
- EXISTING ELECTRICAL ASSET (E)

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	25.09.19	CONCEPT ISSUE	M.C.
P2	03.10.19	PRELIMINARY ISSUE	M.C.

ALSON

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PROJECT

MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

TITLE

CIVIL SERVICES
COVER SHEET
LEGEND OF SYMBOLS
GENERAL NOTES
AND DRAWING LIST

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	N.T.S.
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	C0000	P2

A. GENERAL

1. ALL MATERIALS AND WORKMANSHIP MUST MEET *AS/NZS 3500.3:2003* STORMWATER DRAINAGE, BCA AND AUTHORISING LOCAL COUNCIL DEVELOPMENT GUIDELINES, STANDARDS, SPECIFICATIONS, POLICIES, CONSENTS AND REQUIREMENTS AND / OR AS DIRECTED BY THE PRINCIPAL.

2. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS, TECHNICAL SPECIFICATIONS AND OTHER INSTRUCTIONS THAT ISSUED DURING THE COURSE OF THE COMMISSION. ALL DISCREPANCIES ARE TO BE REFERRED TO THE PRINCIPAL FOR CLARIFICATION PRIOR TO PROCEEDING WORK. WORKS SHALL NOT PROCEED WITHOUT CLARIFICATION AND INSTRUCTION FROM THE PRINCIPAL.

3. THE CONTRACTOR SHALL NOT ENTER OR WORK ON ADJOINING PROPERTIES WITHOUT THE WRITTEN CONSENT OF THE PROPERTY OWNERS OR THE RELEVANT AUTHORITIES.

4. THE CONTRACTOR IS TO ENSURE THAT MINIMAL DISTURBANCE IS MADE TO AREAS OUTSIDE OF THE CONSTRUCTION WORKS AREA.

5. ANY SUBSTITUTION OF PRODUCTS OR MATERIALS SHALL BE APPROVED BY THE PRINCIPAL PRIOR TO COMMENCING WORK.

6. ANY CONNECTION TO EXISTING WORKS ARE TO BE MADE GOOD.

7. EXCAVATION WORKS ARE NOT TO IMPACT THE STABILITY OF ANY NEARBY STRUCTURES AND PROPERTIES.

8. SOILS SHOULD BE TESTED FOR ACID SULPHATE SOILS AND/OR CONTAMINATION PRIOR TO EXCAVATION IF THERE IS A POTENTIAL RISK NOTED IN THE ENVIRONMENTAL IMPACT ASSESSMENT OR CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN.

9. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION UPON COMPLETION OF WORK UNLESS DIRECTED OTHERWISE BY THE PRINCIPAL.

10. THE CONTRACTOR IS RESPONSIBLE FOR THE SETTING OUT OF THE WORKS IN ACCORDANCE WITH THE SETOUT DETAILS AND MEASUREMENTS SHOWN ON THE DRAWINGS. ALL SETOUT INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

11. ALL DIMENSIONS AND LEVELS RELEVANT TO SETTING OUT TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS. THIS INCLUDES EXISTING SERVICES AND/OR OTHER STRUCTURES THAT MAY AFFECT/BE AFFECTED BY THIS DESIGN PRIOR TO CONSTRUCTION.

12. ALL SURVEY INFORMATION AND PROPOSED WORKS OTHER THAN THE PROPOSED STORMWATER DRAINAGE HAVE BEEN OBTAINED FROM DRAWINGS BY OTHER CONSULTANTS.

13. REFER TO HYDRAULIC DRAWINGS AND PAVEMENT DRAWINGS FOR DETAILS OF ROOF AND SUBSOIL DRAINAGE SYSTEMS RESPECTIVELY.

14. THE DRAWINGS SHALL NOT BE SCALED UNLESS OTHERWISE INSTRUCTED IN THE NOTES ON THE DRAWINGS. ALL LEVELS, COORDINATES AND CHAINAGES ARE IN METRES AND DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

15. THE LEVEL DATUM REFERRED TO IN THE DRAWINGS IS THE AUSTRALIAN HEIGHT DATUM (AHD) UNLESS NOTED OTHERWISE.

16. THE CONTRACTOR IS TO INVESTIGATE, IDENTIFY AND ACCURATELY LOCATE ALL EXISTING SERVICES OR OTHER STRUCTURES WHICH MAY AFFECT/BE AFFECTED BY THIS DESIGN AND APPLY FOR "DIAL BEFORE YOU DIG" BEFORE CONSTRUCTION COMMENCES. ALL INFORMATION ON EXISTING SERVICES IS TO BE KEPT UP TO DATE, AND ON SITE AT ALL TIMES.

17. IT IS THE RESPONSIBILITY OF THE BUILDER TO OBTAIN ANY PRIOR APPROVAL REQUIRED FROM COUNCIL WITH RESPECT TO POTENTIAL IMPACT ON TREES.

18. THE CONTRACTOR IS TO CONTACT THE RELEVANT UTILITY AUTHORITIES / ASSET OWNERS PRIOR TO COMMENCEMENT OF EXCAVATION WORKS. ANY MODIFICATION OF THE ASSET REQUIRED BY THE CONTRACTOR IS TO BE APPROVED BY THE ASSET OWNER / AUTHORITY.

B. QUALITY, SAFETY AND ENVIRONMENT

1. SCOPE OF WORK FOR THIS DOCUMENT INCLUDES THE DESIGN, MODELLING AND DOCUMENTATION FOR THE FOLLOWING (WHERE APPLICABLE): STORMWATER CONCEPT PLAN WITH OSD (IF REQUIRED) AND WSUD LAYOUT DESIGN, SEDIMENT AND EROSION CONTROL PLAN, CALCULATIONS, STANDARD DETAILS AND MUSIC MODELLING.

2. THESE PLANS WERE PREPARED IN ACCORDANCE WITH THE AUTHORISING COUNCIL'S POLICIES AND REQUIREMENTS, AS 3500:2013 "PLUMBING AND DRAINAGE", BASIX REQUIREMENTS, AUSTRALIAN RAINFALL AND RUNOFF (2016), RELEVANT LEGISLATION, AND NSW MUSIC MODELLING GUIDELINES.

3. THE CONTRACTOR SHALL MAINTAIN AND OPERATE AND APPROVED QUALITY SYSTEM TO AS/NZS ISO9002-2000.

4. THE CONTRACTOR SHALL PROVIDE INSPECTION AND TEST PLANS TO THE PRINCIPAL FOR THEIR ENDORSEMENT.

5. ALL MATERIALS TESTING SHALL BE UNDERTAKEN BY A NATA ACCREDITED LABORATORY.

6. THE CONTRACTOR SHALL PROVIDE A SAFETY PLAN AND SAFE WORK METHOD STATEMENTS TO THE PRINCIPAL FOR ENDORSEMENT PRIOR TO COMMENCING WORKS.

7. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH NSW OCCUPATIONAL HEALTH AND SAFETY LAWS AND REGULATIONS.

8. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH NSW ENVIRONMENTAL LAWS AND REGULATIONS.

9. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN TO THE PRINCIPAL FOR THEIR ENDORSEMENT.

C. EROSION AND SEDIMENT CONTROL

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO THE REQUIREMENTS OF THE NSW ENVIRONMENT PROTECTION AGENCY (EPA), THE OFFICE OF ENVIRONMENT & HERITAGE, AND WATER NSW.

2. THE CONTRACTOR IS TO IMPLEMENT ALL MEASURES OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO CONSTRUCTION COMMENCING AND MAINTAIN THESE MEASURES THROUGHOUT CONSTRUCTION.

3. EROSION AND SEDIMENT CONTROL MEASURES AND DEVICES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH LANDCOM'S 'MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION' (THE 'BLUE BOOK').

4. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE DURING DEVELOPMENT.

D. STORMWATER DRAINAGE

1. DRAINAGE PITS AND PIPES SHALL BE TO THE TYPE, SIZE AND CLASS NOMINATED ON THE DRAWINGS.

2. ALL CONCRETE WORKS ARE TO BE IN ACCORDANCE WITH AS 3600 AND ALL STEEL REINFORCEMENT AND STEEL MESH ARE TO BE IN ACCORDANCE WITH AS 4671. ALL BURIED FLEXIBLE PIPES ARE TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH AS/NZS 2566. ALL BURIED PVC PIPES ARE TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH AS/NZS 2032, AS/NZS 1254 AND AS/NZS 1477. ALL CONCRETE PIPES ARE TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH AS/NZS 3725, AS/NZS 4139 AND AS/NZS 4058.

3. GRATES AND COVERS SHALL CONFORM TO AS3996 AND TO THE AUTHORISING COUNCIL'S REQUIREMENTS.

4. NO PIT GRATE COMPONENT PART SHALL WEIGH MORE THAN 20KG. ALL GRATES SHALL BE HINGED FULLY OPENING GRATES WITH LOCKDOWN DEVICE.

5. ALL STORMWATER PITS AND DETENTION TANKS DEEPER THAN 1.2m IN DEPTH TO BE FITTED WITH RUNG LADDERS IN ACCORDANCE WITH AS/NZS 4198 AND AS/NZS 1657. STEEL LADDERS SHALL BE HOT DIP ZINC GALVANISED AS SPECIFIED IN AS/NZS 4680.

6. ALL INLET/OUTLET PIPES SHALL BE CUT FLUSH WITH PIT WALLS.

7. PRECAST CONCRETE PIPES AND FITTINGS TO BE DOUBLE V-RING JOINTED.

8. EMBEDMENT SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH AS/NZS 2566 FOR FLEXIBLE PIPES, AS/NZS 2032 FOR PVC PIPES, AND AS/NZS 3725 FOR CONCRETE PIPES.

9. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER DRAINAGE, THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY MEASURES TO PREVENT WORKER INJURIES ASSOCIATED WITH PITS AND TRENCHES.

10. THE CONTRACTOR SHALL ALLOW FOR DEWATERING AS REQUIRED DURING CONSTRUCTION.

11. ALL STORMWATER DRAINAGE MATERIALS AND PRODUCTS INCLUDING PITS AND PIPES ARE TO BE INSTALLED TO THE MANUFACTURER'S SPECIFICATIONS.

12. DEMOLISH, FILL IN AND REMOVE EXISTING PIPE AND PITS AS DIRECTED BY THE SUPERINTENDENT. REDUNDANT DRAINAGE PIPES MUST BE FILLED WITH STABILISED SAND OR GROUT TO PREVENT STRUCTURAL COLLAPSE IN THE FUTURE. REDUNDANT PITS ARE TO BE DEMOLISHED AND REMOVED UNLESS THEY AFFECT THE STRUCTURAL INTEGRITY OF ADJACENT STRUCTURES, IN WHICH CASE THEY MUST BE FILLED WITH STABILISED SAND OR GROUT.

13. NEW PIPE SYSTEMS ARE TO BE FLUSHED OUT BY THE CONTRACTOR ONCE COMPLETE PRIOR TO CONNECTION INTO EXISTING SYSTEMS.

14. PITS ARE TO BE DESIGNED FOR THE STRENGTH CLASS SPECIFIED IN THE PIT SCHEDULE PROVIDED IN THIS DRAWING SET.

E. CONCRETE

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS/NZS 3600

2. FORMWORK SHALL COMPLY WITH AS/NZS 3610

3. PREMIXED CONCRETE SHALL BE MANUFACTURED AND SUPPLIED IN ACCORDANCE WITH AS/NZS 1379.

4. PORTLAND AND BLENDED CEMENT SHALL COMPLY WITH AS/NZS 3972.

5. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED BY THE PRINCIPAL. ADMIXTURES SHALL COMPLY WITH AS/NZS 1478.1.

6. AGGREGATE SHALL COMPLY WITH AS/NZS 2758.1

7. WATER SHALL BE CLEAN FRESH WATER IN ACCORDANCE WITH AS/NZS 1379.

8. PROJECT CONTROL TESTING SHALL BE CARRIED OUT ON ALL CLASSES OF CONCRETE IN ACCORDANCE WITH AS/NZS 1379.

9. CONCRETE EXPOSURE CLASSIFICATION FOR ALL CONCRETE ELEMENTS IS B1

10. MINIMUM 28 DAY AS/NZS 3600 COMPRESSIVE STRENGTH (f'c) OF CONCRETE IS AS FOLLOWS:
- CAST IN SITU ELEMENT: 40 MPa
- PRE-CAST CONCRETE ELEMENT: 40MPa
- BLINDING CONCRETE AND MASS CONCRETE: 25 MPa

10. STORMWATER PITS AND STRUCTURES SPECIFIED SLUMP 80MM, NOMINAL AGGREGATE SIZE 20mm.

11. BLINDING CONCRETE SHALL HAVE A MINIMUM THICKNESS OF 50mm.

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	25.09.19	CONCEPT ISSUE	M.C.
P2	03.10.19	PRELIMINARY ISSUE	M.C.

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PROJECT
MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

TITLE
CIVIL SERVICES
NOTES
SHEETS 1 OF 2

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	N.T.S.
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	C1000	P2

F. STEEL REINFORCEMENT

1. STEEL REINFORCEMENT SHALL COMPLY WITH AS/NZS 4671. DOWELS SHALL BE ONE-PIECE, STRAIGHT, PLAIN STEEL BAR OR PLATE COMPLYING WITH AS/NZS 4671 OR AS/NZS 3679.1. TIE BARS SHALL BE DEFORMED BARS COMPLYING WITH AS/NZS4671.

2. THE NUMBER FOLLOWING THE FABRIC SYMBOL F IS THE REFERENCE NUMBER FOR FABRIC TO AS/NZS 1304. FABRIC SHALL BE LAPPED WITH TWO TRANSVERSE WIRES AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH AS/NZS 4671.

3. LAPS SHALL BE IN ACCORDANCE WITH AS/NZS 3600.

4. SITE BENDING OF REINFORCEMENT BARS SHALL BE DONE WITHOUT HEATING USING A RE-BENDING TOOL. THE BARS SHALL BE RE-BENT AGAINST A FLAT SURFACE OR A PIN WITH A DIAMETER NOT LESS THAN THE MINIMUM PIN SIZE PRESCRIBED IN AS/NZS 3600.

5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.

6. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT APPROVAL FROM THE PRINCIPAL.

7. UNLESS OTHERWISE NOTED, MINIMUM CLEAR DISTANCE BETWEEN BARS OTHER THAN LAPPED BARS SHALL BE THE GREATEST OF:
   - I) 1.5 X THE DIAMETER OF THE LARGER BAR
   - II) 1.5 X THE MAXIMUM NORMAL AGGREGATE SIZE
   - III) 40

8. JOINTS IN STRUCTURES OR MEMBERS TO BE IN ACCORDANCE WITH AS/NZS 3600.

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PROJECT

MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

TITLE

CIVIL SERVICES
NOTES
SHEETS 2 OF 2

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	**N.T.S.**
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	**C1100**	**P2**

NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND ALTER CATCH DRAINS, SEDIMENT FENCES AND OTHER DEVICES TO SUIT THE PROGRESS OF WORKS AND ENSURE THAT THE SITE DRAINS TO THE SEDIMENT BASINS.

2. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRUCK WASH FACILITIES AT THE SITE ACCESS POINT AND SHALL CLEAN ALL VEHICLES EXITING THE SITE TO ENSURE MATERIALS AND MUD IS NOT TRANSPORTED AND DEPOSITED OFF SITE. WATER FROM ANY WASHBAY IS TO BE DIVERTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

3. VEHICLE TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION, CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROADS. AREAS TO BE LEFT UNDISTURBED SHALL BE MARKED OFF.

4. THE CONTRACTOR SHALL REGULARLY CHECK AND MAINTAIN SEDIMENT AND EROSION CONTROL STRUCTURES AND DE-SILT WHEN 30% OF THE STRUCTURE HAS ACCUMULATED SILT. THE SEDIMENT SHALL BE DISPOSED OF AS APPROVED BY THE DETERMINING AUTHORITY.

5. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL BY MINIMISING THE DURATION AND AREA OF EXPOSURE OF BARE EARTH AND BY SPRAYING STOCKPILES AND AREAS WITH EXPOSED SOIL TO KEEP THEM DAMP. DO NOT SATURATE THE AREAS TO THE POINT OF CAUSING WATER RUNOFF.

6. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM AREAS WHERE WATER MAY CONCENTRATE.

7. IF STOCKPILES ARE TO BE IN PLACE FOR MORE THAT 7 DAYS THEN THEY SHALL BE STABILISED WITH MULCH OR TEMPORARY VEGETATION. COVER THE STOCKPILE IF WET WEATHER IS ANTICIPATED.

8. ALL STOCKPILES TO BE MAXIMUM 2m HIGH AND BE PROTECTED WITH A DIVERSION BUND ON THE UPSTREAM SIDE AND A SILT FENCE ON THE DOWNSTREAM SIDE.

9. SITE ACCESS IS TO BE STABILISED LIMITED TO ONE ACCESS WAY.

10. STREET CAR PARKING IS TO BE USED WHERE POSSIBLE.

11. ENGAGE A STREET SWEEPER WHEN DIRT IS TRACKED ON TO THE ROAD.

12. DO NOT STOCKPILE OR CARRY OUT WORKS OUTSIDE OF THE BOUNDARY FENCE.

13. EARTHWORKS ARE TO BE CARRIED OUT ONLY IN THE AREAS REQUIRED. EARTHWORKS SHALL NOT BE CARRIED OUT OVER A LONG PERIOD OF TIME, BUT WILL RATHER BE UNDERTAKEN IN A TIMELY FASHION.

14. REVEGETATION AND RE-TURFING OF THE SITE SHALL TAKE PLACE AS SOON AS POSSIBLE FOLLOWING THE REQUIRED EARTHWORKS

2 1 0 2 4 6 8 m

1 : 100-A1 1 : 200-A3

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PROJECT

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QUEENS PARK RD,
QUEENS PARK,
NSW 2022

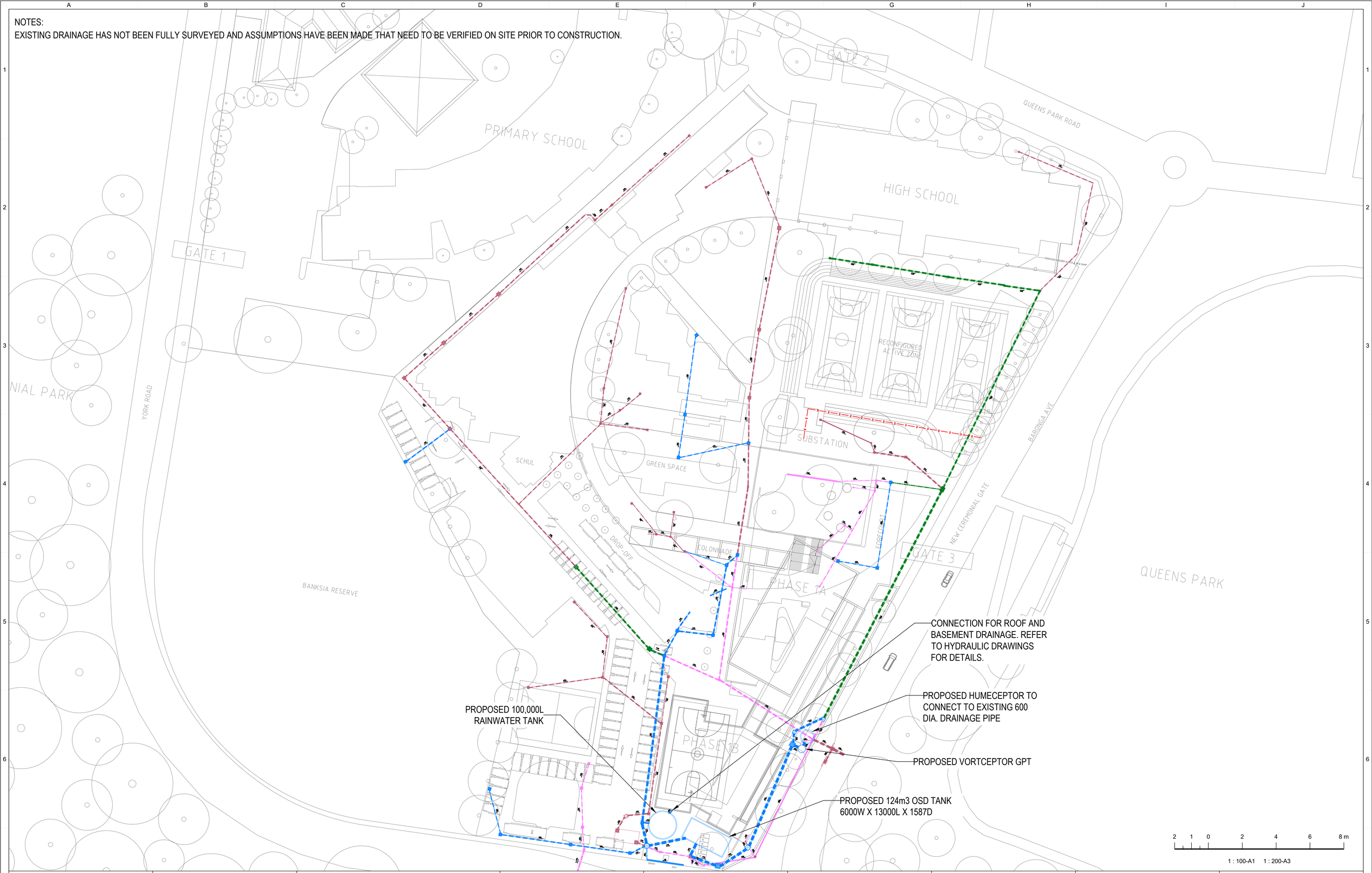
TITLE

CIVIL SERVICES
EROSION AND SEDIMENTATION CONTROL PLAN LAYOUT PART 1

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	**1:100**
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	**C2000**	**P2**

NOTES:
EXISTING DRAINAGE HAS NOT BEEN FULLY SURVEYED AND ASSUMPTIONS HAVE BEEN MADE THAT NEED TO BE VERIFIED ON SITE PRIOR TO CONSTRUCTION.



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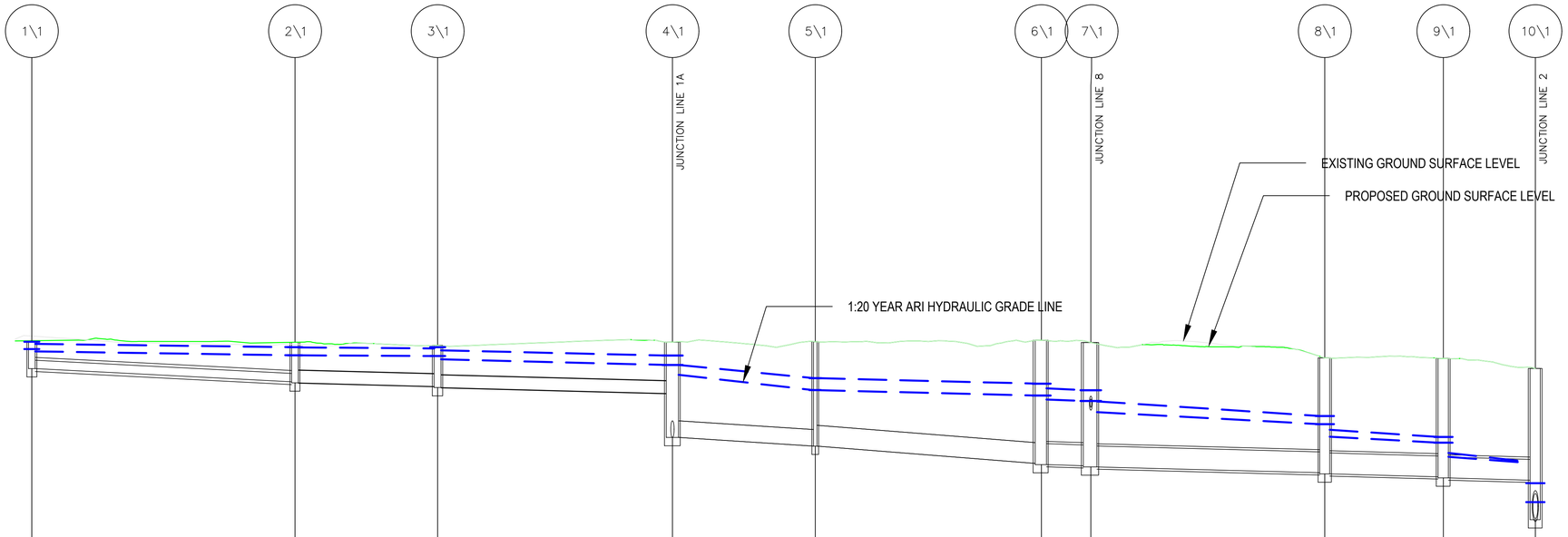
PROJECT
MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

TITLE
CIVIL SERVICES
GENERAL ARRANGEMENT
LAYOUT PART 1

CONCEPT DESIGN
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	1:100
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	C3000	P2



GRADE (%)		1.000%	0.500%	0.500%	1.217%	1.526%	0.500%	0.500%	0.500%	0.500%	
PIPE SIZE & CLASS		ø150 uPVC SN8	ø225 uPVC SN8	ø225 uPVC SN8	ø300 EXISTING	ø375 EXISTING	ø375 ADS HDPE	ø375 ADS HDPE	ø375 ADS HDPE	ø375 ADS HDPE	
20 YR VELOCITY (m/s)		0.480	0.390	0.840	1.800	1.180	1.310	1.520	1.600	1.680	
20 YR ARI FLOW (m3/s)		0.009	0.014	0.031	0.127	0.130	0.144	0.168	0.176	0.177	
Datum RL (m AHD)		44.00									
EXISTING SURFACE LEVEL		53.59	53.44	53.43	53.48	53.49	53.52	53.47	53.20	53.19	53.01
DESIGN SURFACE LEVEL		53.51	53.48	53.43	53.48	53.49	53.52	53.47	53.20	53.19	53.01
DEPTH TO INVERT		0.50	0.71 / 0.73	0.74 / 0.76	0.92 / 1.71	1.88	2.22 / 2.24	2.22 / 2.24	2.07 / 2.09	2.13 / 2.15	2.01
HYDRAULIC GRADE LINE	53.36	53.31	53.24	53.23 / 53.17	53.07 / 52.89	52.62	52.52 / 52.45	52.42 / 52.22	52.01 / 51.78	51.67 / 51.42	51.31 / 50.60
PIPE INVERT LEVEL	53.01		52.77 / 52.75	52.68 / 52.66	52.56 / 51.77	51.61	51.30 / 51.28	51.26 / 51.24	51.13 / 51.11	51.06 / 51.04	51.00
CHAINAGE		0.00	23.67	23.67 / 36.50	12.83 / 49.62	21.12	57.62	12.85	70.47	20.35	90.82 / 95.25	21.04	116.29	10.68	126.97	8.27	135.24

LINE 1

NOTES:

1. DRAINAGE LINE 3 IS A DIVERSION OF THE EXISTING LINE TO AVOID A CLASH WITH THE PROPOSED DRAINAGE CHANNEL. LEVELS OF THE DIVERTED DRAINAGE PIPE ARE TO TIE IN WITH THE LEVELS OF THE EXISTING DRAINAGE PIPE AT THE CONNECTION POINTS AND A CONSTANT GRADE IS TO BE MAINTAINED ALONG THE DIVERTED PIPE.

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	25.09.19	CONCEPT ISSUE	M.C.
P2	03.10.19	PRELIMINARY ISSUE	M.C.

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PROJECT

MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

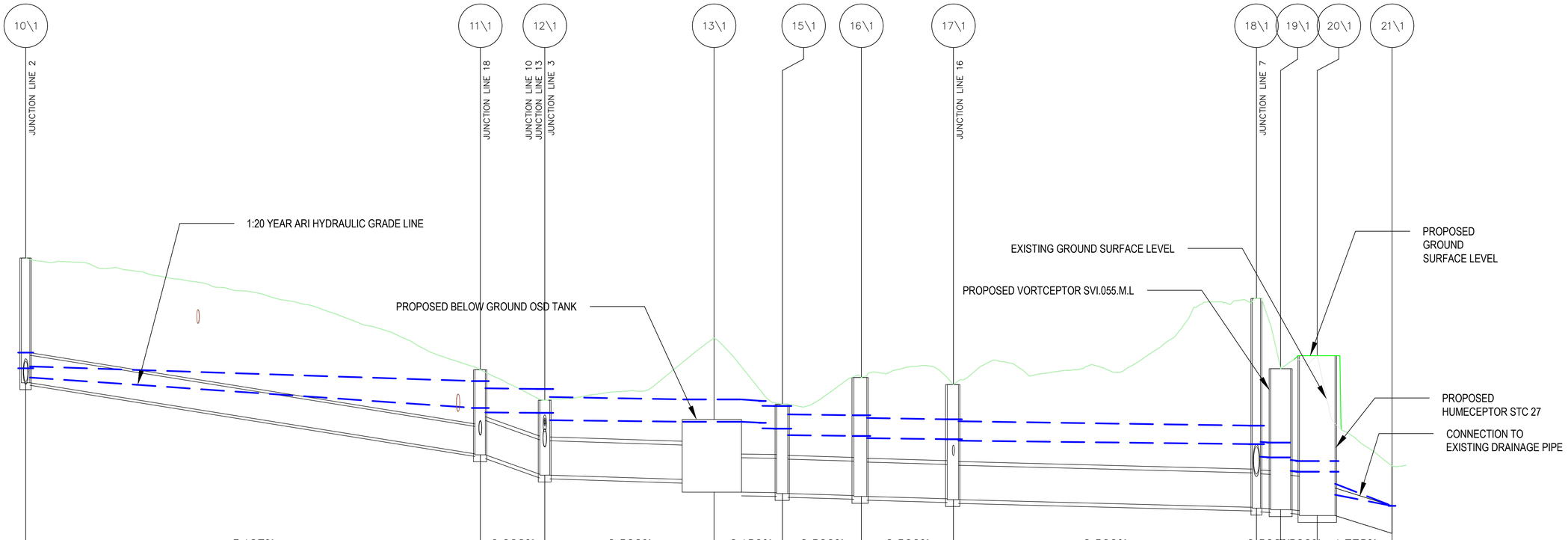
TITLE

CIVIL SERVICES
LONG SECTIONS
SHEETS 1 OF 8

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	As Shown
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	C4000	P2

Oct 03, 2019 – 7:02pm S:\JOB No\Job No 20190300-20190399\190310 Moriah College Redevelopment\Drawings\Civil\190310-C4000.dwg



GRADE (%)		3.127%				6.022%		0.500%		0.150%		0.500%		0.500%		0.500%		0.500%	0.500%	4.775%		
PIPE SIZE & CLASS		ø600 ADS HDPE				ø750 ADS HDPE		ø750 ADS HDPE		ø750 ADS HDPE		ø750 ADS HDPE		ø750 ADS HDPE		ø750 ADS HDPE		ø750 ADS HDPE	ø750 ADS HDPE	ø600 EXISTING		
20 YR VELOCITY (m/s)		2.550				1.230		1.610		1.200		1.210		1.210		1.220		1.690	1.690	2.640		
20 YR ARI FLOW (m3/s)		0.433				0.515		0.673		0.532		0.533		0.535		0.536		0.746	0.745	0.746		
Datum RL (m AHD)	43.00																					
EXISTING SURFACE LEVEL	53.01					50.57		49.91		51.26		49.82		50.40		50.25		52.13	50.59	50.88		48.47
DESIGN SURFACE LEVEL	53.01					50.57		49.91		49.49		49.82		50.40		50.25		52.13	50.59	50.88		48.47
DEPTH TO INVERT	2.01	2.72			1.84	1.86	1.62	1.64		1.31	1.59	1.93	1.95	2.58	2.60	2.49	2.51	4.56	4.58	3.06	3.08	3.38	3.49	1.47	1.47
HYDRAULIC GRADE LINE	51.31	50.60	50.40		49.74	49.64	49.63	49.47			49.44	49.29	49.14	49.13	49.08	49.06	49.02	48.95	48.67	48.66	48.36	48.35	47.84		47.60
PIPE INVERT LEVEL	51.00	50.29			48.73	48.71	48.29	48.27		48.18	47.90	47.89	47.87	47.83	47.81	47.76	47.74	47.57	47.55	47.54	47.52	47.50	47.39	47.00	
CHAINAGE	135.24	49.64				184.88	7.04	191.92	18.49		210.41	7.46	217.87	8.63	226.50	10.05	236.54		269.64		272.28	4.00	276.28	8.17	284.45

LINE 1

NOTES:

1. DRAINAGE LINE 3 IS A DIVERSION OF THE EXISTING LINE TO AVOID A CLASH WITH THE PROPOSED DRAINAGE CHANNEL. LEVELS OF THE DIVERTED DRAINAGE PIPE ARE TO TIE IN WITH THE LEVELS OF THE EXISTING DRAINAGE PIPE AT THE CONNECTION POINTS AND A CONSTANT GRADE IS TO BE MAINTAINED ALONG THE DIVERTED PIPE.

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	03.10.19	PRELIMINARY ISSUE	M.C.

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PROJECT

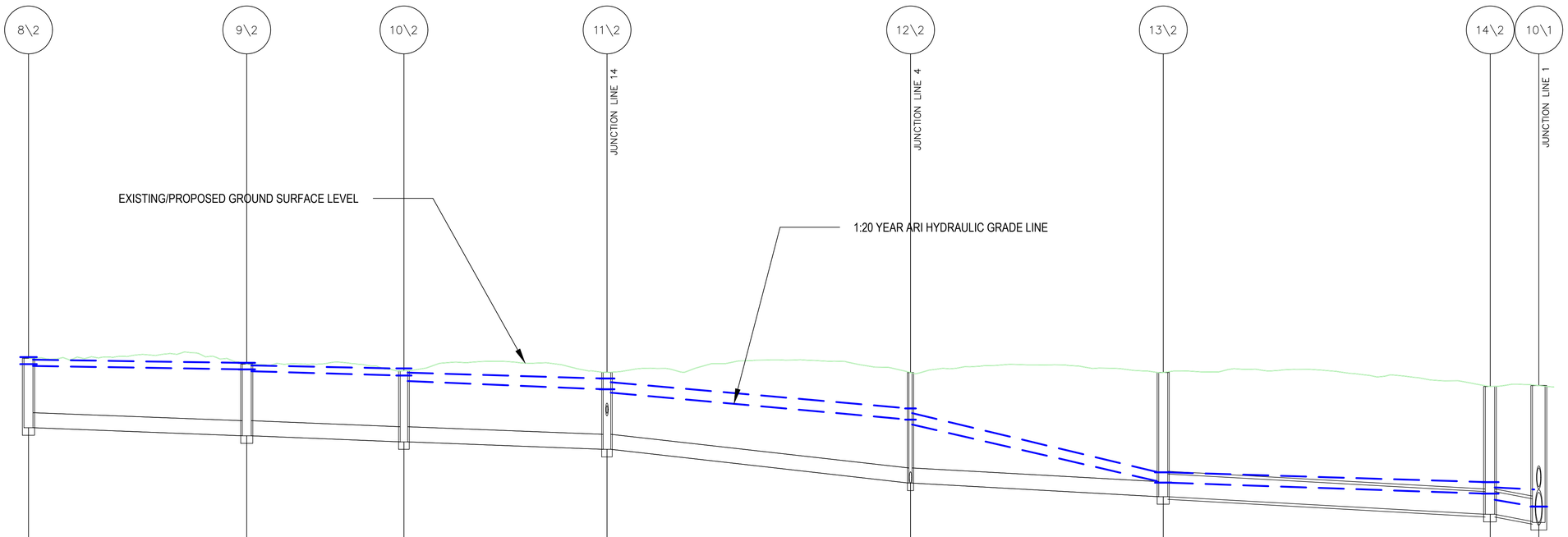
MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD, QUEENS PARK, NSW 2022

TITLE

CIVIL SERVICES
LONG SECTIONS
SHEETS 2 OF 8

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	As Shown
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	C4100	P1



GRADE (%)		0.738%			0.768%			0.743%			2.221%			1.075%			1.077%			2.965%				
PIPE SIZE & CLASS		ø300 EXISTING			ø300 EXISTING			ø300 EXISTING			ø300 EXISTING			ø300 EXISTING			ø450 ADS HDPE			ø450 ADS HDPE				
20 YR VELOCITY (m/s)		1.150			1.290			1.420			1.710			2.610			1.730			1.940				
20 YR ARI FLOW (m3/s)		0.081			0.091			0.100			0.121			0.182			0.207			0.248				
Datum RL (m AHD)		45.00																						
EXISTING SURFACE LEVEL		53.55			53.44			53.30			53.27			53.27			53.27			52.99			53.01	
DESIGN SURFACE LEVEL		53.55			53.44			53.30			53.27			53.27			53.27			52.99			53.01	
DEPTH TO INVERT	1.38	1.38		1.43	1.43		1.41	1.41		1.53	1.53		2.20	2.20		2.47	2.47		2.54	2.54		2.70	2.72	
HYDRAULIC GRADE LINE	53.43	53.40		53.33	53.29		53.21	53.10		52.93	52.87		52.33	52.23		51.10	51.08		50.86	50.74		50.60	50.40	
PIPE INVERT LEVEL	52.17			52.01			51.89			51.74			51.07			50.80			50.45			50.31	50.29	
CHAINAGE		75.60	21.69		97.29	15.62		112.90	20.18		133.08	30.16		163.25	25.11		188.36	32.49		220.85	4.82		225.67	

LINE 2

NOTES:

1. DRAINAGE LINE 3 IS A DIVERSION OF THE EXISTING LINE TO AVOID A CLASH WITH THE PROPOSED DRAINAGE CHANNEL. LEVELS OF THE DIVERTED DRAINAGE PIPE ARE TO TIE IN WITH THE LEVELS OF THE EXISTING DRAINAGE PIPE AT THE CONNECTION POINTS AND A CONSTANT GRADE IS TO BE MAINTAINED ALONG THE DIVERTED PIPE.

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	03.10.19	PRELIMINARY ISSUE	M.C.

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PROJECT

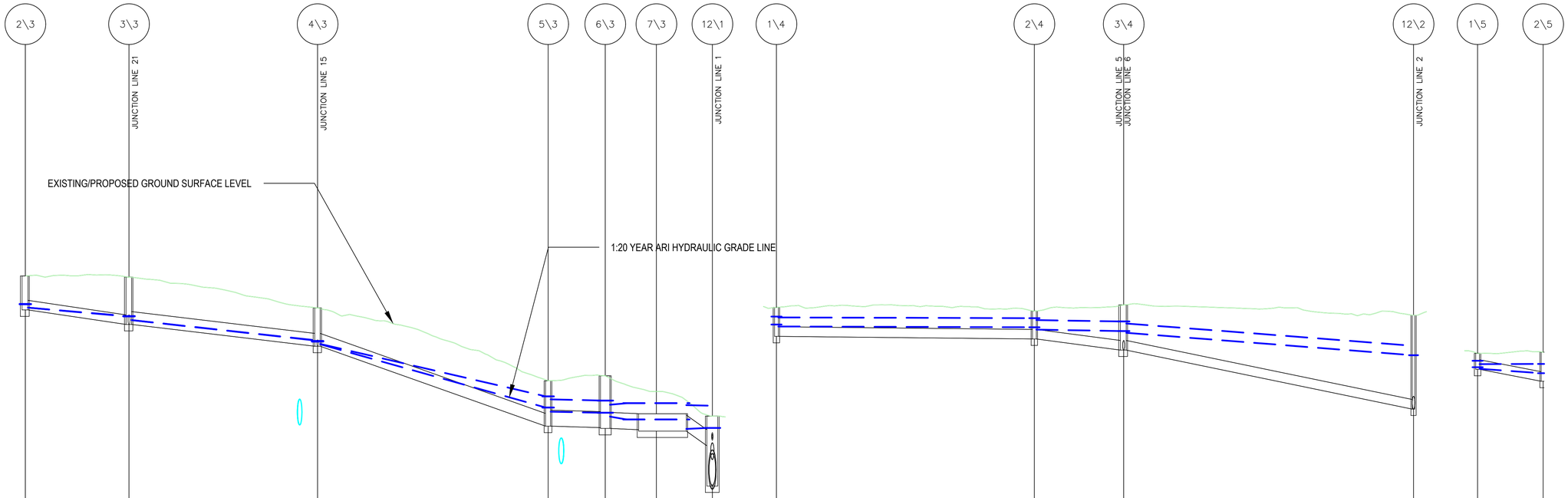
MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

TITLE

CIVIL SERVICES
LONG SECTIONS
SHEETS 3 OF 8

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	**As Shown**
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	**C4200**	**P1**



GRADE (%)	2.802%		2.311%		6.931%			0.500%	0.500%	5.250%			0.199%		2.487%		4.069%					3.653%						
PIPE SIZE & CLASS	ø225 EXISTING		ø300 EXISTING		ø300 EXISTING			ø375 EXISTING	ø375 EXISTING	ø375 EXISTING			ø225 EXISTING		ø225 EXISTING		ø225 EXISTING					ø225 EXISTING						
20 YR VELOCITY (m/s)	1.200		1.760		1.420			0.910	1.050	1.870			0.450		0.960		1.340					0.740						
20 YR ARI FLOW (m3/s)	0.036		0.062		0.073			0.099	0.099	0.125			0.012		0.027		0.051					0.005						
Datum RL (m AHD)	44.00												45.00									46.00						
EXISTING SURFACE LEVEL	53.18		53.16		52.44			50.73	50.85	50.48		49.91	53.45		53.37		53.51			53.27		53.38						
DESIGN SURFACE LEVEL	53.18		53.16		52.44			50.73	50.85	49.96		49.91	53.45		53.37		53.51			53.27		53.38						
DEPTH TO INVERT	0.79	0.79	1.11	1.11	0.90	0.90		1.06	1.21	0.38	0.41	0.69	0.68		0.66	0.66	1.06			2.20	2.20	0.38		0.68				
HYDRAULIC GRADE LINE	52.52	52.44	52.24	52.15	51.68	51.65	51.59	50.11	50.01	49.98	49.90	49.83	49.60	49.63	49.47	1.64	53.05	53.00	52.98	52.93	52.89	52.85	52.33	52.23	53.05	53.01	52.91	
PIPE INVERT LEVEL	52.39		52.05		51.54			49.67	49.64	49.62	49.59	49.56	49.21	48.27	52.77		52.71		52.45		51.07	53.00		52.72				
CHAINAGE	14.12	12.13	26.26	22.07	48.33	26.98		75.30	6.68	81.99	5.99	87.98	6.55	94.53	0.00	30.19	30.19	10.46	40.64	33.92	74.56	0.00	7.66					

LINE 3 LINE 4 LINE 5

NOTES:

1. DRAINAGE LINE 3 IS A DIVERSION OF THE EXISTING LINE TO AVOID A CLASH WITH THE PROPOSED DRAINAGE CHANNEL. LEVELS OF THE DIVERTED DRAINAGE PIPE ARE TO TIE IN WITH THE LEVELS OF THE EXISTING DRAINAGE PIPE AT THE CONNECTION POINTS AND A CONSTANT GRADE IS TO BE MAINTAINED ALONG THE DIVERTED PIPE.

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	03.10.19	PRELIMINARY ISSUE	M.C.

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PROJECT

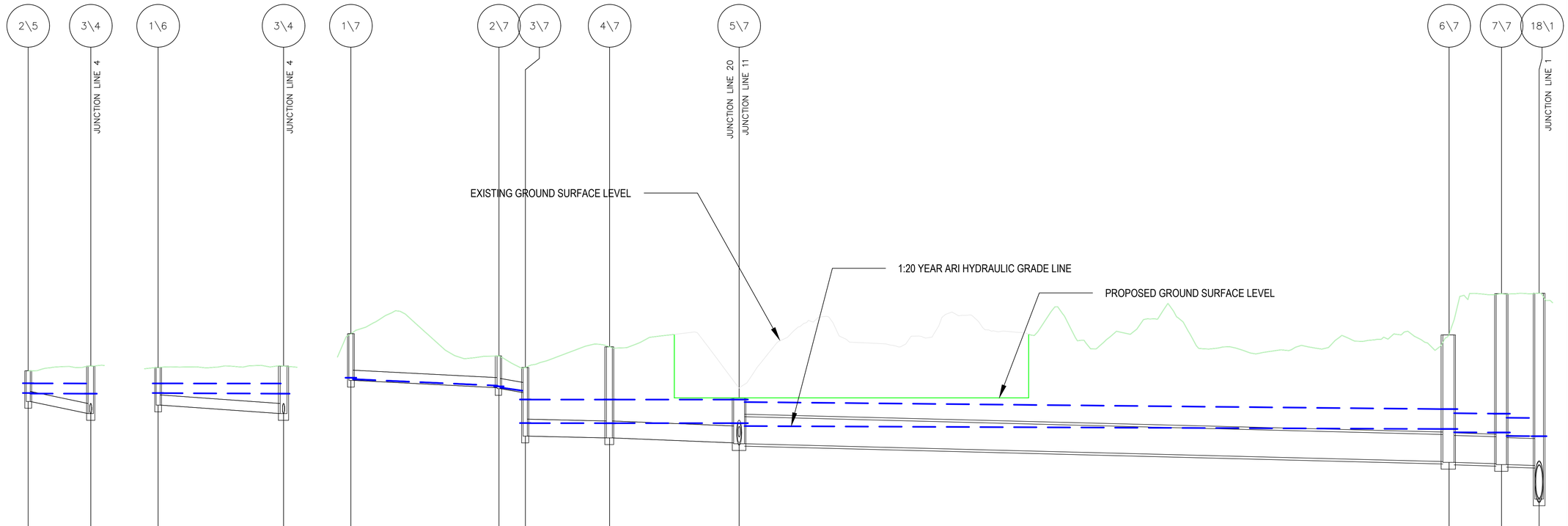
MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

TITLE

CIVIL SERVICES
LONG SECTIONS
SHEETS 4 OF 8

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	**As Shown**
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	**C4300**	**P1**



GRADE (%)		3.876%			1.361%			0.992%			3.025%	0.426%		0.763%			0.500%					0.500%	0.500%					
PIPE SIZE & CLASS		ø225 EXISTING			ø225 EXISTING			ø225 EXISTING			ø225 EXISTING	ø375 EXISTING		ø375 EXISTING			ø600 ADS HDPE					ø600 ADS HDPE	ø600 ADS HDPE					
20 YR VELOCITY (m/s)		0.510			0.310			0.580			0.900	0.500		0.530			1.210					0.990	1.210					
20 YR ARI FLOW (m3/s)		0.008			0.008			0.004			0.005	0.012		0.013			0.275					0.274	0.272					
Datum RL (m AHD)		46.00			46.00			43.00																				
EXISTING SURFACE LEVEL		53.40		53.51	53.47		53.51	51.23			50.73	50.48		50.94			50.02					51.20	52.12			52.13		
DESIGN SURFACE LEVEL		53.40		53.51	53.47		53.51	51.23			50.73	50.48		50.94			49.80					51.20	52.12			52.13		
DEPTH TO INVERT	0.68	0.68	1.06	1.06	0.83		1.06	1.04		0.71	0.73	0.56	1.53		2.03	2.03		1.00	1.02		2.82	2.84	3.78	3.80	3.83	4.58		
HYDRAULIC GRADE LINE	52.91	52.90	52.89	52.85	52.91		52.89	50.22	50.25	50.07	50.05	50.03	49.95	49.24		49.24	49.24	49.17			49.11	49.03	49.03	48.95	48.95	48.67		
PIPE INVERT LEVEL	52.72		52.45		52.64		52.45		50.19	50.03	50.01	49.92	48.95		48.91		48.80	48.78			48.38	48.36	48.34	48.32	48.29	47.55		
CHAINAGE	7.66	6.97		14.63	0.00	13.96		0.00	16.48		16.48	2.95	19.43	9.38		28.81	14.42		43.23	79.05		122.28	5.84		128.12	4.18		132.30
	LINE 5				LINE 6														LINE 7									

NOTES:

1. DRAINAGE LINE 3 IS A DIVERSION OF THE EXISTING LINE TO AVOID A CLASH WITH THE PROPOSED DRAINAGE CHANNEL. LEVELS OF THE DIVERTED DRAINAGE PIPE ARE TO TIE IN WITH THE LEVELS OF THE EXISTING DRAINAGE PIPE AT THE CONNECTION POINTS AND A CONSTANT GRADE IS TO BE MAINTAINED ALONG THE DIVERTED PIPE.

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	03.10.19	PRELIMINARY ISSUE	M.C.

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PROJECT

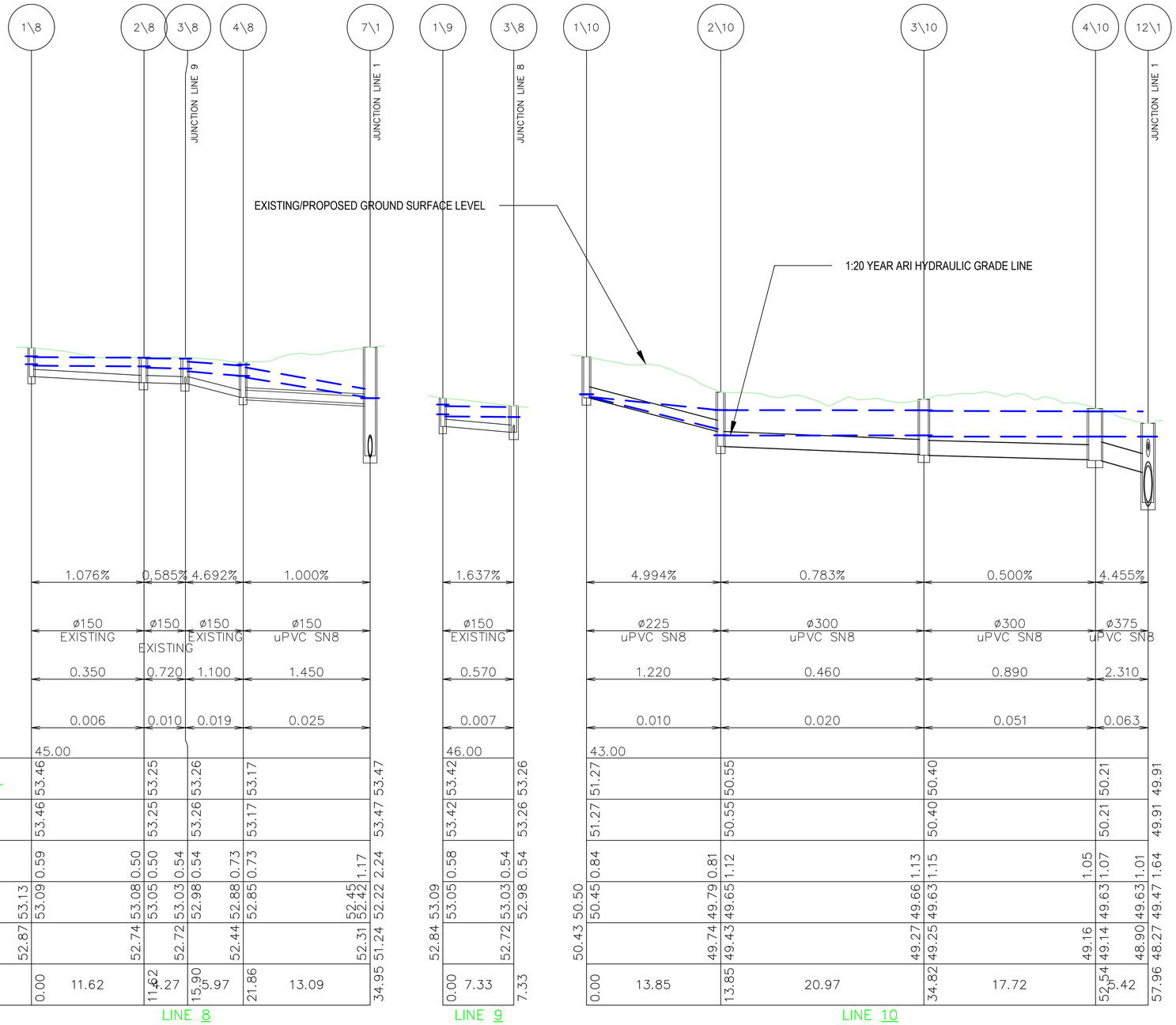
MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

TITLE

CIVIL SERVICES
LONG SECTIONS
SHEETS 5 OF 8

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	As Shown
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	C4400	P1



NOTES:

1. DRAINAGE LINE 3 IS A DIVERSION OF THE EXISTING LINE TO AVOID A CLASH WITH THE PROPOSED DRAINAGE CHANNEL. LEVELS OF THE DIVERTED DRAINAGE PIPE ARE TO TIE IN WITH THE LEVELS OF THE EXISTING DRAINAGE PIPE AT THE CONNECTION POINTS AND A CONSTANT GRADE IS TO BE MAINTAINED ALONG THE DIVERTED PIPE.

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	03.10.19	PRELIMINARY ISSUE	M.C.

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PROJECT

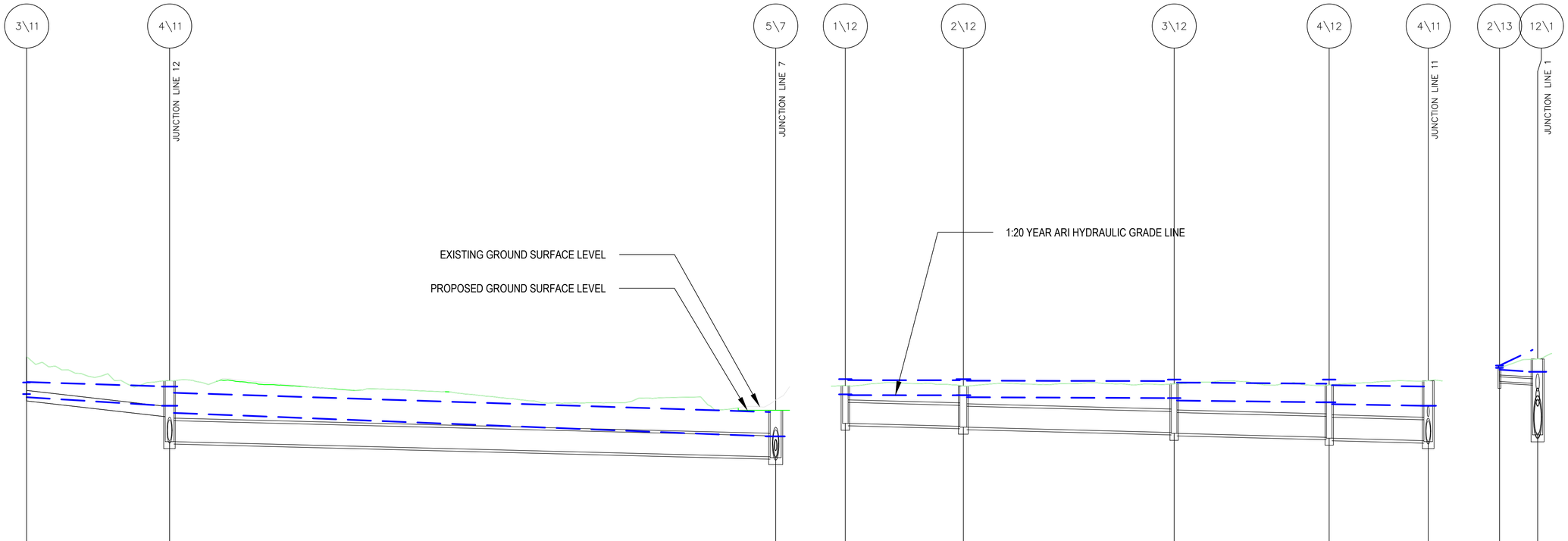
MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

TITLE

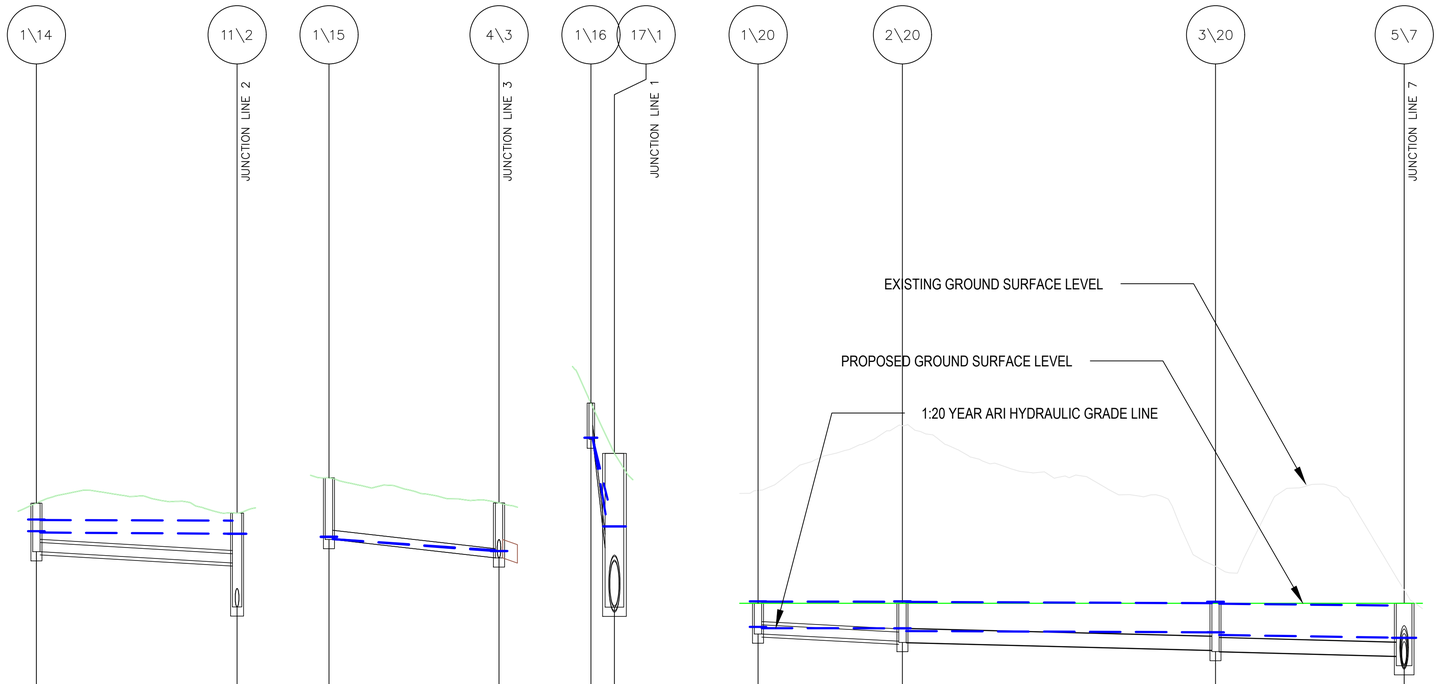
CIVIL SERVICES
LONG SECTIONS
SHEETS 6 OF 8

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	As Shown
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	C4500	P1


3\11
4\11
5\7
1\12
2\12
3\12
4\12
4\11
2\13
12\1
JUNCTION LINE 12
JUNCTION LINE 7
JUNCTION LINE 11
JUNCTION LINE 1
EXISTING GROUND SURFACE LEVEL
PROPOSED GROUND SURFACE LEVEL
1:20 YEAR ARI HYDRAULIC GRADE LINE

| | | |



	LINE 14			LINE 15			LINE 16			LINE 20				
GRADE (%)		1.119%			2.162%			92.526%			1.000%	0.500%	0.500%	
PIPE SIZE & CLASS		ø150 uPVC SN8			ø150 EXISTING			ø225 EXISTING			ø150 uPVC SN8	ø225 uPVC SN8	ø225 uPVC SN8	
20 YR VELOCITY (m/s)		0.650			0.440			2.360			0.340	0.490	0.780	
20 YR ARI FLOW (m3/s)		0.007			0.004			0.004			0.004	0.016	0.027	
Datum RL (m AHD)		46.00			45.00			42.00			44.00			
EXISTING SURFACE LEVEL		53.43	53.27		52.85	52.44		51.07	50.25		51.64	52.70	50.40	50.02
DESIGN SURFACE LEVEL		53.43	53.27		52.85	52.44		51.07	50.25		49.80	49.80	49.80	49.80
DEPTH TO INVERT		0.79	0.81		1.01	0.90		0.59	2.51		0.50	0.62	0.64	0.77	0.79	0.86	1.02
HYDRAULIC GRADE LINE	52.98	52.95	52.93	51.88	51.85	51.65	51.59	50.50	50.48	49.06	49.02	49.41	49.39	49.39	49.35	49.33	49.28	49.24	49.17
PIPE INVERT LEVEL	52.64		52.46	51.84		51.54		50.48	48.70	47.74		49.30	49.18	49.16		49.03	49.01	48.94	48.78
CHAINAGE	0.00	16.38	16.38	0.00	13.88	13.88		0.00	0.92	1.92		0.00	11.79	11.79	25.55		37.34	15.40	52.74

NOTES:

1. DRAINAGE LINE 3 IS A DIVERSION OF THE EXISTING LINE TO AVOID A CLASH WITH THE PROPOSED DRAINAGE CHANNEL. LEVELS OF THE DIVERTED DRAINAGE PIPE ARE TO TIE IN WITH THE LEVELS OF THE EXISTING DRAINAGE PIPE AT THE CONNECTION POINTS AND A CONSTANT GRADE IS TO BE MAINTAINED ALONG THE DIVERTED PIPE.

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	03.10.19	PRELIMINARY ISSUE	M.C.

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PROJECT

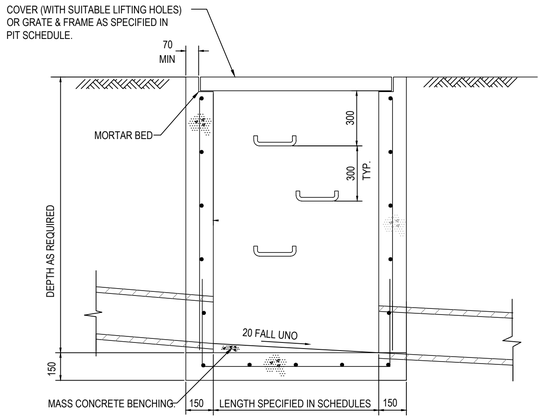
MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

TITLE

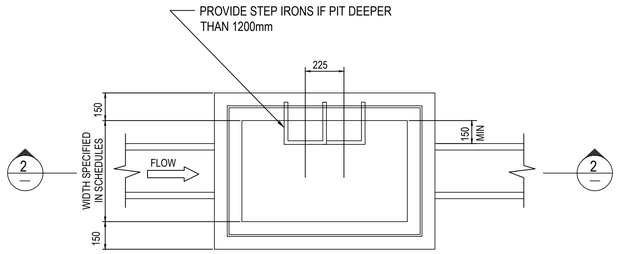
CIVIL SERVICES
LONG SECTIONS
SHEETS 8 OF 8

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	As Shown
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	C4700	P1



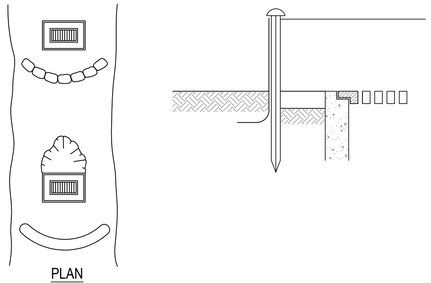
SECTION 2
SCALE 1:20



PLAN
SCALE 1:20

TYPICAL SURFACE INLET/JUNCTION PIT

2129 SWD



PLAN

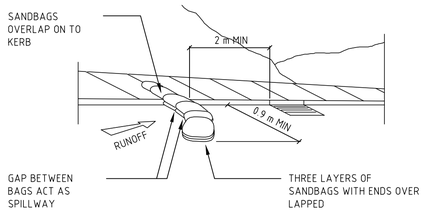
CONSTRUCTION NOTES: -

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. SUPPORT GEOTEXTILE WITH MESH TIED TO POSTS AT 1 METRE CENTRES.
3. DO NOT COVER INLET GEOTEXTILE

3028 SE

GEOTEXTILE INLET FILTER

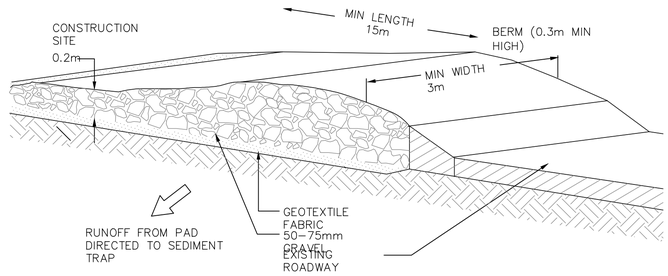
NOT TO SCALE



3004 SE

SANDBAG KERB INLET SEDIMENT TRAP

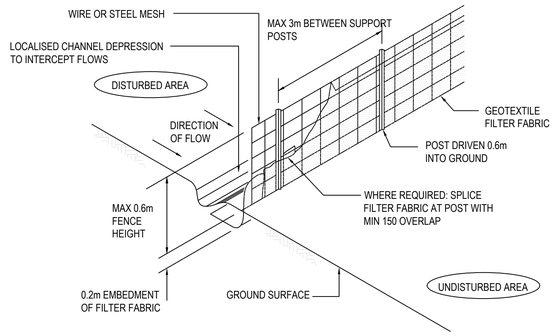
NOT TO SCALE



2096 SWD

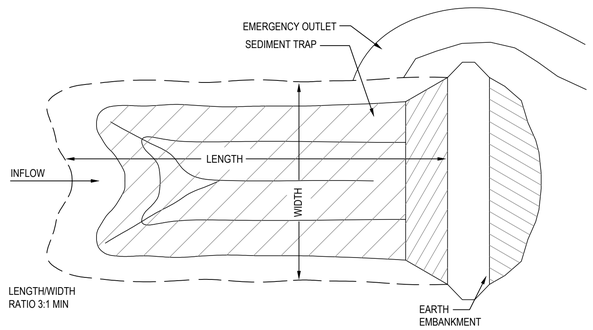
STABILISED SITE ACCESS

N.T.S.



SEDIMENT FENCE

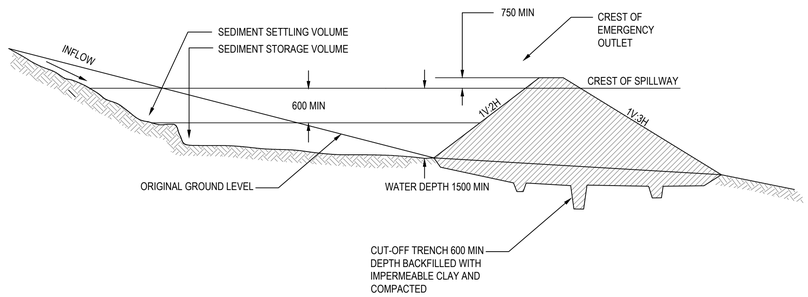
N.T.S.



2092 SWD

PLAN VIEW OF TYPICAL SEDIMENT BASIN

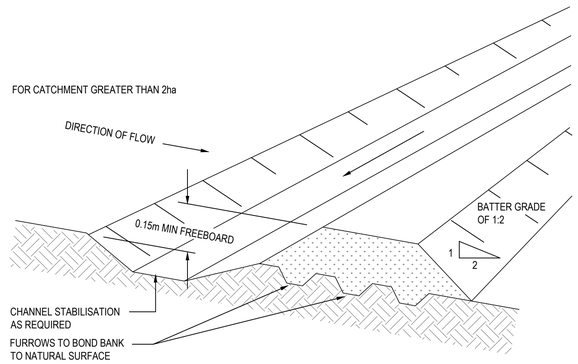
N.T.S.



2093 SWD

CROSS SECTION OF TYPICAL SEDIMENT BASIN

N.T.S.



2094 SWD

DIVERSION BANK AND CHANNEL

SCALE: N.T.S.

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	25.09.19	CONCEPT ISSUE	M.C.
P2	03.10.19	PRELIMINARY ISSUE	M.C.

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PROJECT
MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

TITLE
CIVIL SERVICES
DETAILS

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	N.T.S.
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	C5000	P2

DRAINAGE STRUCTURE SCHEDULE

PIT No. / LINE No.	REFERENCE TYPE	SIZE LENGTH (mm)	SIZE WIDTH (mm)	LID COVER TYPE	CLASS	EASTING (mE)	NORTHING (mE)	SETOUT POINT LOCATION	REMARKS
LINE 1									
1\1	SURFACE INLET PIT	600	600	GALVANISED GRATED STEEL LID	B	337620.916	6247592.284	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\1	SURFACE INLET PIT	600	600	GALVANISED GRATED STEEL LID	B	337617.486	6247568.865	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
3\1	SURFACE INLET PIT	600	600	GALVANISED GRATED STEEL LID	B	337615.554	6247556.177	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
4\1	JUNCTION PIT	900	900	SOLID CONCRETE LID	B	337636.251	6247560.376	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
5\1	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337636.098	6247547.531	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
6\1	SURFACE INLET PIT	900	900	GALVANISED GRATED STEEL LID	B	337632.982	6247527.423	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
7\1	JUNCTION PIT	900	900	SOLID CONCRETE LID	B	337629.774	6247524.355	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
8\1	SURFACE INLET PIT	900	900	GALVANISED GRATED STEEL LID	B	337625.772	6247503.703	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
9\1	SURFACE INLET PIT	900	900	GALVANISED GRATED STEEL LID	B	337615.175	6247504.989	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
10\1	SURFACE INLET PIT	1200	900	GALVANISED GRATED STEEL LID	D	337611.390	6247497.633	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
11\1	JUNCTION PIT	1200	900	SOLID CONCRETE LID	D	337604.855	6247448.423	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
12\1	JUNCTION PIT	1200	1200	SOLID CONCRETE LID	D	337606.218	6247441.518	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
13\1	OSD TANK	13000	6000	GALVANISED GRATED STEEL LID	D	337624.626	6247443.227	CENTRE OF TANK	PRECAST CONCRETE OSD TANK WITH RISERS
15\1	SURFACE INLET PIT	1200	1200	GALVANISED GRATED STEEL LID	D	337619.072	6247438.364	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
16\1	SURFACE INLET PIT	1200	1200	GALVANISED GRATED STEEL LID	D	337627.352	6247435.932	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
17\1	JUNCTION PIT	1200	1200	SOLID CONCRETE LID	B	337636.009	6247441.032	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
18\1	SURFACE INLET PIT	900	900	GALVANISED GRATED STEEL LID	B	337649.529	6247471.237	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
19\1	GPT	2200		SOLID CONCRETE LID	B	337651.941	6247470.153	CENTRE OF PIT	SPEL VORTCEPTOR SVI.055.M.L
20\1	OIL WATER SEPARATOR	3600		SOLID CONCRETE LID	B	337653.657	6247473.764	CENTRE OF PIT	HUMECEPTOR STC 27
21\1	OUT	N/A		N/A	N/A	337660.991	6247470.169	CENTRE OF PIPE	PRECAST CONCRETE DRAINAGE PIT
LINE 1A									
1\1A	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337623.706	6247635.918	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\1A	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337637.205	6247644.361	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
3\1A	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337645.297	6247623.911	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
4\1A	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337639.398	6247593.895	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
5\1A	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337636.490	6247573.818	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 2									
1\2	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337618.717	6247651.141	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\2	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337607.272	6247640.906	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
3\2	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337595.889	6247630.702	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
4\2	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337590.891	6247626.214	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
5\2	EXISTING PIPE CONNECTION	N/A		N/A	N/A	337589.574	6247627.738	CENTRE OF PIPE	PRECAST CONCRETE DRAINAGE PIT
6\2	EXISTING PIPE CONNECTION	N/A		N/A	N/A	337587.998	6247627.783	CENTRE OF PIPE	PRECAST CONCRETE DRAINAGE PIT
7\2	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337577.973	6247618.675	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
8\2	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337562.434	6247604.395	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
9\2	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337546.217	6247589.992	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
10\2	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337534.531	6247579.632	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
11\2	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337548.062	6247564.664	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
12\2	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337568.374	6247542.367	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
13\2	SURFACE INLET PIT	900	900	GALVANISED GRATED STEEL LID	D	337585.311	6247523.824	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
14\2	SURFACE INLET PIT	900	900	GALVANISED GRATED STEEL LID	D	337606.998	6247499.627	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 3									
1\3	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337584.782	6247513.497	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\3	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337594.544	6247503.294	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
3\3	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337593.145	6247491.241	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
4\3	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337610.568	6247477.691	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
5\3	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337606.706	6247450.991	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
6\3	EXISTING PIT	N/A		SOLID CONCRETE LID	N/A	337600.063	6247450.269	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
7\3	EXISTING OSD TANK	3700	7000	GALVANISED GRATED STEEL LID	N/A	337600.281	6247444.283	CENTRE OF TANK	PRECAST CONCRETE DRAINAGE PIT

NOTES:
PROJECTION: MGA56

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	25.09.19	CONCEPT ISSUE	M.C.
P2	03.10.19	PRELIMINARY ISSUE	M.C.

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PROJECT
MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

TITLE
CIVIL SERVICES
STRUCTURE SCHEDULES
SHEETS 1 OF 2

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	C.I.	SCALE @ A1
CHECKED	M.C.	**N.T.S.**
APPROVED	M.C.	
CREATED	AUG 2019	
JOB No.	DRAWING No.	REV
190310	**C6000**	**P2**

LINE 4									
1\4	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337599.999	6247606.082	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\4	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337593.529	6247576.595	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
3\4	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337592.520	6247566.188	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 5									
1\5	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337604.198	6247574.982	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\5	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337598.255	6247570.142	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 6									
1\6	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337606.358	6247564.307	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 7									
1\7	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337657.490	6247567.272	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\7	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337672.485	6247560.434	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
3\7	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337673.388	6247557.629	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
4\7	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337682.668	6247556.272	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
5\7	SURFACE INLET PIT	1200	1200	GALVANISED GRATED STEEL LID	B	337693.487	6247546.732	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
6\7	JUNCTION PIT	1200	900	SOLID CONCRETE LID	B	337655.106	6247477.628	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
7\7	JUNCTION PIT	1200	1200	SOLID CONCRETE LID	B	337649.700	6247475.414	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 8									
1\8	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337601.740	6247542.594	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\8	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337608.975	6247533.497	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
3\8	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337613.181	6247532.745	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
4\8	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337617.347	6247528.472	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 9									
1\9	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337614.182	6247540.008	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 10									
1\10	SURFACE INLET PIT	600	600	GALVANISED GRATED STEEL LID	D	337559.754	6247458.359	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\10	SURFACE INLET PIT	600	600	GALVANISED GRATED STEEL LID	D	337562.936	6247444.874	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
3\10	SURFACE INLET PIT	900	900	GALVANISED GRATED STEEL LID	D	337583.690	6247441.891	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
4\10	SURFACE INLET PIT	1200	1200	GALVANISED GRATED STEEL LID	D	337601.232	6247439.393	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 11									
1\11	EXISTING PIT	N/A		N/A	N/A	337716.045	6247646.370	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\11	EXISTING PIPE CONNECTION	N/A		N/A	N/A	337737.981	6247637.191	CENTRE OF PIPE	PRECAST CONCRETE DRAINAGE PIT
3\11	EXISTING PIPE CONNECTION	N/A		N/A	N/A	337733.219	6247616.161	CENTRE OF PIPE	PRECAST CONCRETE DRAINAGE PIT
4\11	SURFACE INLET PIT	900	900	GALVANISED GRATED STEEL LID	D	337722.291	6247605.301	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 12									
1\12	SURFACE INLET PIT	600	600	GALVANISED GRATED STEEL LID	B	337660.263	6247614.979	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\12	SURFACE INLET PIT	750	750	GALVANISED GRATED STEEL LID	B	337672.837	6247613.085	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
3\12	SURFACE INLET PIT 600 X 900	900	600	GALVANISED GRATED STEEL LID	B	337695.244	6247609.449	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
4\12	SURFACE INLET PIT 600 X 900	900	600	GALVANISED GRATED STEEL LID	D	337711.748	6247606.947	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 13									
1\13	TRENCH GRATE	N/A		GALVANISED GRATED STEEL LID	D	337617.053	6247435.842	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\13	TRENCH GRATE	N/A		GALVANISED GRATED STEEL LID	D	337606.214	6247437.409	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 14									
1\14	SURFACE INLET PIT	600	600	GALVANISED GRATED STEEL LID	D	337534.907	6247554.905	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 15									
1\15	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337612.544	6247491.428	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 16									
1\16	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337635.365	6247442.842	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 18									
1\18	STUB FOR ROOF DOWNPIPES	N/A		N/A	N/A	337645.170	6247523.732	CENTRE OF PIPE	PRECAST CONCRETE DRAINAGE PIT
2\18	RAINWATER TANK	8000		SOLID CONCRETE LID	D	337612.422	6247447.292	CENTRE OF TANK	REFER TO HYDRAULIC DRAWINGS FOR DETAILS
LINE 19									
1\19	STUB FOR ROOF DOWNPIPES	N/A		N/A	N/A	337664.983	6247514.571	CENTRE OF PIPE	PRECAST CONCRETE DRAINAGE PIT

LINE 20									
1\20	SURFACE INLET PIT	600	600	GALVANISED GRATED STEEL LID	B	337662.658	6247525.598	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
2\20	SURFACE INLET PIT	600	600	GALVANISED GRATED STEEL LID	B	337674.268	6247523.561	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
3\20	SURFACE INLET PIT	600	600	GALVANISED GRATED STEEL LID	B	337678.232	6247548.804	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT
LINE 21									
1\21	EXISTING PIT	N/A		GALVANISED GRATED STEEL LID	N/A	337571.227	6247488.259	CENTRE OF PIT	PRECAST CONCRETE DRAINAGE PIT

NOTES:
PROJECTION: MGA56

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P1	03.10.19	PRELIMINARY ISSUE	M.C.

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PROJECT
MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
NSW 2022

TITLE
CIVIL SERVICES
STRUCTURE SCHEDULES
SHEETS 2 OF 2

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PROJECT

MORIAH COLLEGE REDEVELOPMENT
QUEENS PARK RD,
QUEENS PARK,
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CIVIL SERVICES
CATCHMENT PLAN

PRELIMINARY ISSUE

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