ST. IGNATIUS SENIOR SCHOOL 27 PENINSULA DRIVE, DRYSDALE VIC 3222

DRAWING LIST

DRAWING TITLE

WGA201630-DR-CV-0001 CIVIL DRAWING LIST & STANDARD NOTES

WGA201630-DR-CV-0002 CIVIL WORKS

WGA201630-DR-CV-0003 CIVIL DETAILS - SHEET 1 OF 2

WGA201630-DR-CV-0004 CIVIL DETAILS - SHEET 2 OF 2

GENERAL NOTES:

HEALTH AND SAFETY:

- THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH ALL CONSULTANT DRAWINGS. THE SPECIFICATION AND WITH ANY OTHER WRITTEN INSTRUCTIONS ISSUED DURING THE COURSE OF THE
- 2. REFER TO ARCHITECTS DRAWINGS FOR ALL FINISHES AND COLOURS.
- 3. REFER LANDSCAPE ARCHITECTS DRAWINGS OR SERVICES DRAWINGS FOR ANY IRRIGATION OR SERVICES CONDUITS REQUIREMENTS AND LOCATIONS.

- THE OBLIGATION OF WGA AS THE DESIGN ENGINEER IS LIMITED TO ENSURING THAT THOSE PARTS OF THE BUILDING OR STRUCTURE THAT ARE TO BE USED AS A WORKPLACE ARE, AS FAR AS REASONABLY PRACTICABLE, DESIGNED TO BE SAFE AND WITHOUT RISKS TO THE HEALTH OF THOSE PERSONS USING THE BUILDING OR STRUCTURE AS A WORKPLACE FOR THE PURPOSE FOR WHICH IT WAS DESIGNED IN ACCORDANCE WITH SECTION. 28 OF THE OCCUPATIONAL HEALTH AND SAFETY ACT
- WGA IS NOT RESPONSIBLE FOR THE OCCUPATIONAL HEALTH AND SAFETY OF PERSONS AT THE SITE AS THOSE OBLIGATIONS RESIDE WITH THE CONTRACTOR AND/OR SUB-CONTRACTORS WHO OCCUPY OR HAVE CONTROL OF THE SITE IN ACCORDANCE WITH APPLICABLE OCCUPATIONAL HEALTH AND SAFETY LEGISLATION, CODES OR PRACTICE, GUIDANCE NOTES, AUSTRALIAN STANDARDS AND OTHER RELEVANT DOCUMENTATION.
- 3. ANY ADVICE OR GUIDANCE CONCERNING OCCUPATIONAL HEATH AND SAFETY ISSUES ARISING AT THE SITE SHOULD BE DIRECTED TO THE HEALTH AND SAFETY OFFICER NOMINATED FOR THE PROJECT.

OH&S REQUIREMENTS:

- 1. THE CONTRACTOR MUST ENSURE THE SAFETY OF THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PEOPLE WHO ARE ON OR ADJACENT TO THE SITE. THE CONTRACTOR MUST COMPLY WITH THE VICTORIAN OCCUPATIONAL HEALTH AND SAFETY ACT.
- 2. THE CONTRACTOR MUST ENSURE THAT ALL PEOPLE EMPLOYED ON THE SITE WEAR APPROVED SAFETY PERSONAL PROTECTION EQUIPMENT. THIS INCLUDES SAFETY HELMETS, SAFETY BOOTS, EAR AND EYE PROTECTION, WHERE APPROPRIATE
- 3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES WITHIN THE WORKS AFFECTED AREAS PRIOR TO COMMENCING ANY WORKS.
- 4. THE CONTRACTOR MUST PROPERLY AND ADEQUATELY SAFEGUARD THE WORKS AND ANY FIXED AND UNFIXED MATERIALS ON THE SITE DURING WORKING AND NON-WORKING HOURS.
- 5. THE CONTRACTOR MUST ENSURE THE SAFETY OF ANY PERSON WHO MAY ENTER OR TRESPASS UPON ANY PART OF THE SITE AT ANY TIME. THE CONTRACTOR MUST NOT USE GUARD DOGS TO PROTECT THE SITE IF IT IS REASONABLY ADJACENT TO A RESIDENTIAL AREA.

SAFETY IN DESIGN (SID)

REFER STRUCTURAL DRAWINGS FOR SID NOTES & REQUIREMENTS.

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CONCRETE NOTES:

- 1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 (CONCRETE STRUCTURES), THE SPECIFICATION AND DETAILS PROVIDED ON THE DRAWINGS, UNLESS INSTRUCTED
- OTHERWISE BY WGA.
- 2. ALL FORMWORK SHALL CONFORM WITH AS 3610. 3. $\,$ The Builder shall coordinate with all trades to ensure that provision is made for all NECESSARY REBATES OR OPENINGS IN CONCRETE, AND CASTING IN OF CONDUITS, WHETHER OR NOT
- SPECIFICALLY DETAILED ON THE DRAWINGS. 4. CLEAR CONCRETE COVER TO REINFORCEMENT FOR CONCRETE ELEMENTS SHALL BE:

	CLEAR COVER (mm)			
LOCATION	TOP	воттом	SIDES INTERNAL	SIDES INTERNAL
SLABS & PAVEMENTS	40	40		
FOOTING STRIPS	65	65		
STAIRS	40	40		
RETAINING WALLS	40	40		
BORED PIERS	50	50		50

5. SCHEDULE OF CONCRETE PROPERTIES TO BE USED FOR THE PARTICULAR SECTION OF WORK SHALL BE AS FOLLOWS UNLESS OTHERWISE INSTRUCTED: (MIX DESIGNS SHALL BE SUBMITTED BY THE SUBCONTRACTOR TO THE ENGINEER FOR INSPECTION 28 DAYS PRIOR TO POUR).

LOCATION	GRADE (MPa)	MAX. AGGREGATE (mm)	SLUMP (mm)
PITS, KERBS, FOOTPATHS, HEADWALLS & FOOTINGS	N25	20	80±15
RETAINING WALLS	N40	20	80±15
VEHICULAR PAVEMENTS	N40 TYPE 1	20	80±15

- TYPE 1 CONCRETE SHALL HAVE THE PROPERTIES OF NORMAL N40 CONCRETE WITH A FLEXURAL STRENGTH OF F't=5.12MPa
- 6. ALL REINFORCEMENT IN SLABS AND BEAMS SHALL BE SUPPORTED ON CHAIRS TO GIVE THE REQUIRED COVER. SPACING OF REINFORCEMENT CHAIRS SHALL NOT EXCEED 800mm IN ANY DIRECTION.
- 7. MINIMUM LAPS FOR REINFORCEMENT SHALL BE AS FOLLOWS. UNLESS NOTED OTHERWISE:

	ELLETT OFFICE DE VIOLOE	Lond, oneLoom	OTED OTTIETOR.
FABRIC	2 CROSS WIRES + 25mm.		
N12:	650mm.	N24:	1300mm
N16:	750mm.	N28:	1600mm.
N20:	1000mm.	N32:	1900mm.
COG AND HOOK PIN DIAN	METERS AND OVERALL DI	MENSIONS SHALL	BE AS PER THE REQUIREMENTS

- OF AS 3600 UNLESS NOTED OTHERWISE. 8. ALL BAR CRANKS SHALL BE NO GREATER THAN 1 IN 6, UNLESS NOTED OTHERWISE.
- REINFORCEMENT GRADES SHALL BE AS FOLLOWS:
 - GRADE 500N TO AS/NZS 4671 HARD DRAWN WIRE FABRIC TO AS/NZS 4671. LIGS & TIES: HARD DRAWN WIRE, GRADE 450W, TO AS/NZS 4671.
- ANY STEELWORK SOURCED FROM MILLS LOCATED OUTSIDE AUSTRALIA ARE TO BE PROVIDED WITH CERTIFICATES PROVING ABOVE REQUIREMENTS VERIFIED BY NATA REGISTERED ORGANISATIONS
- 9. FORMS SHALL BE CHAMFERED FOR RE-ENTRANT ANGLES AND FILLETED FOR CORNERS. WHERE THESE WILL BE EXPOSED TO VIEW IN THE COMPLETED PROJECT THE FACE OF THE BEVEL IN EACH CASE SHALL
- BE 25mm WIDE UNLESS NOTED OTHERWISE, REFER TO ARCHITECT'S DETAILS. 10. CONSTRUCTION JOINTS, WHERE NOT SHOWN ON THE DRAWINGS, SHALL BE LOCATED TO THE APPROVAL
- OF THE ENGINEER. 11. THE MINIMUM CLEAR SPACING BETWEEN CONDUITS, CABLES, PIPES AND BARS SHALL BE AS REQUIRED BY AS 3600 BUT NOT LESS THAN THREE DIAMETERS HORIZONTALLY FOR HORIZONTAL CONDUITS, ETC.
- IN SLABS, WALLS AND FOOTINGS AND NOT LESS THAN ONE DIAMETER FOR ALL OTHER CONDUITS, ETC. 12. TYPICAL REINFORCEMENT NOTATION NUMBER OF BARS —— — BAR LOCATION — BAR SPACING (mm) BAR GRADE –
- BAR DIAMETER (mm)
- 13. TYPICAL REINFORCEMENT ABBREVIATIONS: B DENOTES BARS IN BOTTOM FACE TL DENOTES BARS IN LOWER LAYER OF TOP REO. DENOTES BARS IN TOP FACE BU DENOTES BARS UPPER LAYER OF BOTTOM REO. ALT DENOTES BARS ALTERNATING NF DENOTES BARS IN NEAR FACE FF DENOTES BARS IN FAR FACE
- STAG DENOTES BARS STAGGERED EF DENOTES BARS IN EACH FACE
- 15. REQUIRED SURFACE FINISH AND CLASS OF FORMWORK FOR CONCRETE SHALL CONFORM WITH THE

TOLLOWING, ONLESS OTHERWISE INSTRUCTED BY THE SOI ERINTENDENT.			
LOCATION	SURFACE	TYPE OF FINISH	FORMWORK CLASS
SLABS AND STAIRS	TOP FACE	WOOD FLOAT FOR TILED AREAS. BROOM FINISH FOR EXPOSED AREAS	

SLABS AND STAIRS	TOP FACE WOOD FLOAT FOR TILED AREAS. BROOM FINISH FOR EXPOSED AREAS		
KERB AND CHANNEL		STEEL FLOAT FINISH	
	TOP FACE	STEEL FLOAT	
RETAINING WALLS, PITS & END WALLS	EXPOSED FACE		3
	SOIL FACE		3
PAVEMENTS	TOP FACE	BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL. HEAVY BROOM FINISH TO VEHICULAR PAVEMENTS	

- WGA SHALL BE GIVEN A MINIMUM OF 24 HOURS PRIOR NOTICE FOR ALL REQUIRED INSPECTIONS.
- 17. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS AFTER POURING BY COVERING WITH A PVC
- MEMBRANE WEIGHED DOWN TO PREVENT AIR FLOW BENEATH IT. 18. WHENEVER THE CURRENT AMBIENT TEMPERATURE OR THE TEMPERATURE FORECAST FOR THE DAY OF
- 19. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF ANY APPLIED FINISHES IE. EXPOSED

- ALL LEVELS ARE TO AHD REFER ST. QUENTIN REF. NO. 16711 SURVEY DATED 03/08/2020.
- THE CONTRACTOR MUST CHECK THE LOCATION AND DEPTH OF ALL EXISTING SERVICES & DRAINS ALONG THE PROPOSED DRAINAGE LINES & IN THE VICINITY OF THE PROPOSED WORKS PRIOR TO THE COMMENCEMENT OF WORKS. THE CONTRACTOR IS TO VERIFY THE OUTFALL DRAINAGE INVERT LEVEL PRIOR TO THE COMMENCEMENT
- 3. WHERE PIPE TRENCHES PASS UNDER PAVEMENT AREAS THEN BACKFILLING SHALL BE CLASS 3 CRUSHED ROCK COMPACTED IN 150mm LAYERS TO 98% MODIFIED COMPACTIVE EFFORT.
- 4. ALL PITS GREATER THAN 1.0 METRE DEEP TO BE PROVIDED WITH STEP IRONS. PITS & SUMPS GREATER THAN 1.5M DEEP SHALL BE LABELLED 'CONFINED SPACE, ENTRY BY PERMIT ONLY'.
- 5. AT THE COMPLETION OF THE WORKS ALL DISTURBED SURFACE AREAS MUST BE REINSTATED TO THE CONDITION THEY WERE IN AT THE START OF THE WORKS UNLESS NOTED OTHERWISE
- ALL PITS, PIPE BACKFILLS & BEDDING, ETC. SHALL BE IN ACCORDANCE WITH THE DETAILS AND SPECIFICATION. DRAINAGE LINES ARE NOT TO BE BACKFILLED UNTIL INSPECTED BY EITHER THE BUILDING SURVEYOR OR THE
- UNLESS NOTED ON THE DRAWING ALL STORM WATER DRAINS SHALL BE uPVC SEWER GRADE SN8(MIN.) RRJ FOR PIPES UP TO AND INCLUDING 225 DIA. FOR PIPES GREATER THAN 225 DIA. EITHER 'STORMPRO' OR CLASS 2 REINFORCED CONCRETE RRJ PIPE CAN BE ADOPTED. FOR AUTHORITY DRAINS OR WHERE DRAINS ARE INSTALLED OUTSIDE THE PROPERTY ADOPT CLASS 2 REINFORCED CONCRETE RRJ PIPES UNO. ANY PIPE SIZES NOT NOTED SHALL BE 150 DIA (MIN.). uPVC, SN8(MIN.) MINIMUM GRADE 1:100. STORMWATER DRAINS TO BE INSTALLED IN ACCORDANCE WITH AS 3500.3, AS 3725 & AS 2032. PROVIDE INSPECTION OPENINGS AT ALL JUNCTIONS OF PIPES.
- ALL SUBSURFACE DRAINS SHALL BE 100 DIA SLOTTED RIGID upvc DRAINS CLASS 400 SURROUNDED BY COARSE SAND WITH BIDIM A24 GEOTEXTILE WRAP. 9. ALL WORK WITHIN ROAD RESERVE OR ON PUBLIC PROPERTY SHALL BE CONSTRUCTED TO THE LOCAL COUNCIL
- STANDARDS, CONDITIONS AND REQUIREMENTS. WHERE THE REQUIREMENTS OF THE AUTHORITY ARE DIFFERENT TO THE DRAWINGS, THE REQUIREMENT OF THE AUTHORITY SHALL BE APPLICABLE. THE CONTRACTOR MUST NOTIFY THE LOCAL AUTHORITY FIVE CLEAR DAYS PRIOR TO THE COMMENCEMENT OF ANY
- WORKS IN THE ROAD RESERVE OR ON COUNCIL PROPERTY. 11. ALL CARE IS TO BE TAKEN WHEN EXCAVATING AROUND EXISTING TREES THAT ARE TO REMAIN. WHERE A PIPE DRAIN PASSES UNDER A TREE OR WITHIN THE ROOT ZONE THEN A BORING METHOD, HYDRO EXCAVATION OR HAND EXCAVATION SHALL BE USED TO AVOID DAMAGE TO THE TREE ROOTS. THE PROPOSED METHOD IS TO COMPLY
- 12. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS & LEVELS ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS ON SITE. ENGINEERING DRAWINGS MUST NOT BE USED FOR SET OUT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL
- 13. THE CONTRACTOR IS TO ALLOW TO CONNECT ALL DOWNPIPES AS SHOWN ON THE ARCHITECTURAL DRAWINGS TO THE UNDERGROUND DRAINAGE SYSTEM.
- 14. COVER LEVELS SHOWN ARE APPROXIMATE ONLY. THE EXACT FINISHED COVER LEVELS ARE TO BE CO-ORDINATED
- WITH THE SURROUNDING FINISHED LEVELS. 15. FINISHED LEVELS ADJACENT TO KERB LINES ARE TO BE LOCALLY CUT OR FILLED TO PROVIDE AN EVEN
- TRANSITION TO THE BACK OF KERB LEVEL. 16. EROSION & SEDIMENT CONTROL IS TO BE PROVIDED FOR THE WHOLE OF THE WORKS AND IN ACCORDANCE WITH
- THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION OVER THE SITE.
- 17. ALL EXISTING DRAINS TO BE THOROUGHLY CLEANED & JETTED OUT THROUGH TO THE LEGAL POINT OF
- 18. ALL LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742-1 AND AS 1742-2, UNLESS SPECIFICALLY SHOWN OTHERWISE. LINE MARKING IS TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT. TEMPORARY LINE MARKING USING ORDINARY PAINT IS TO BE APPLIED WHEN WEARING
- COURSE ASPHALT IS NOT APPLIED FOR A PERIOD OF TIME E.G. AT PRACTICAL COMPLETION. 19. CONSTRUCTION SEQUENCE AND TRAFFIC MANAGEMENT PLANS TO BE PROVIDED BY CONTRACTOR AND APPROVED BY THE LOCAL COUNCIL PRIOR TO COMMENCEMENT OF WORKS ON SITE.
- 20. CONTRACTOR TO PROVIDE ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES AS REQUIRED TO COMPLY
- WITH THE REQUIREMENTS OF THE ROAD TRAFFIC REGULATIONS ACT. 21. CONTRACTOR IS TO USE ALL DUE CARE AND ATTENTION IN EXERCISING THESE WORKS.
- 22. ALL DIMENSIONS AND SETOUT POINTS SHALL BE CONFIRMED AND VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE SUPERINTENDENT. CIVIL DRAWINGS ARE NOT TO BE USED FOR SETOUT PURPOSE.
- 23. TRANSITION DIFFERENT KERB TYPES OVER 3.0m IF IT CANNOT BE ACHIEVED AT PRAM CROSSING OR DRIVEWAY
- 24. CONTRACTOR TO ADJUST ALL EXISTING COVER LEVELS TO MATCH NEW PAVEMENT LEVELS.
- 25. CONTRACTOR TO SUPPLY AND ERECT ALL STREET SIGNAGE AS REQUIRED.
- 26. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AS REQUIRED PRIOR TO COMMENCEMENT ON SITE. 27. SAW CUT EXISTING PAVEMENTS AT LIMIT OF WORKS TO ENSURE NEAT MATCHING TO NEW WORKS, FOR CONCRETE PAVEMENT & FOOTPATHS THE CONTRACTOR IS TO ALLOW TO DOWEL ANY NEW PAVING TO THE EXISTING.
- 28. WORK SITE TRAFFIC MANAGEMENT PRACTICES MUST BE IN ACCORDANCE WITH AS1742-1996 "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART 3: TRAFFIC CONTROL DEVICES FOR WORKS ON ROADS 29. ALL TRENCHING 1.5m IN DEPTH OR GREATER MUST COMPLY WITH THE MINES AND TRENCHES REGULATIONS.
- 30. TRENCHES AND EXCAVATIONS WITHIN 2m OF BUILDINGS AND PAVEMENTS SHALL NOT BE LEFT OPEN. OPEN TRENCHES AND EXCAVATIONS AND ALL SERVICES TRENCHES WITHIN 2m OF A STRUCTURE OR PAVEMENT ARE TO BE BACK FILLED IMMEDIATELY WITH IMPERVIOUS CLAY MATERIAL TO PREVENT MOISTURE MIGRATION ADJACENT TO BUILDINGS AND PAVEMENTS. PROVISIONS ARE TO BE MADE BY THE CONTRACTOR TO PREVENT WATER INGRESS INTO OPEN EXCAVATIONS.
- 31. OUTFALL DRAINAGE CONNECTION INVERT LEVEL ARE TO BE VERIFIED & CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS ON SITE. ANY DISCREPANCIES TO BE NOTIFIED TO THE SUPERVISER/SUPERITENDANT.
- 32. ALL SURPLUS EXCAVATED MATERIAL IS TO BE REMOVED FROM SITE UNLESS DIRECTED OTHERWISE BY THE
- 33. PAVEMENT BASECOURSE MATERIALS ARE TO COMPLY WITH VICROADS SPECIFICATIONS, SECTION 812 AND COMPACTED IN 150mm MAXIMUM THICK LAYERS TO 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289.5.2.1. MOISTURE CONTENT TO BE WITHIN ± 2% OF OPTIMUM.
- 34. PROVIDE TACTILE INDICATORS TO PRAM CROSSINGS, STAIRS AND RAMPS IN ACCORDANCE WITH AS 1428.4.1 AND IN ACCORDANCE WITH THE ARCHITECTS DETAILS.
- 35. WHERE AGI (AG) DRAINS PASS UNDER SLABS OR PAVEMENTS, UNSLOTTED SECTIONS OF PIPE ARE TO BE USED. 36. GRATES AND COVERS SHALL CONFORM WITH AS 3996-1992 AND AS 1428.1 FOR ACCESS REQUIREMENTS. ALL DRAINAGE TO BE SETOUT A MINIMUM OF 1000mm FROM ADJACENT BUILDINGS UNLESS NOTED OTHERWISE.
- 38. CONTRACTOR IS RESPONSIBLE FOR ANY FILL REQUIRED TO MAKE UP LEVELS BETWEEN APPROVED SUBGRADE 39. UNLESS NOTED OTHERWISE ALL GRATED PIT COVERS TO BE HEEL SAFE SLIP RESISTANT (MAX. 13mm GAP AS PER AS 1428.1 (LAUSE 7.5) IN PEDESTRIAN AREAS AND BIKE SAFE IN ALL OTHER AREAS.
- 40. ALL ASPHALT WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH AS2150. 41. ROCK IS DEFINED AS MONOLITHIC MATERIAL WITH A VOLUME GREATER THAN 0.5m3 WHICH CANNOT BE REMOVED BY A 20 TONNE EXCAVATOR. THE CONTRACTOR IS TO PROVIDE A RATE IN THEIR TENDER FOR THE REMOVAL OF ROCK PER CUBIC METRE. ALL OTHER MATERIAL IS DEEMED RIPPABLE AND NO VARIATION WILL BE PAID FOR
- 42. IF ANY GRATES ARE INSTALLED WITHIN OR ADJACENT TO THE ACCESSIBLE PATHS OR EXTERNAL COURTYARDS, SLOTTED OPENING MUST NOT EXCEED 13mm IN WIDTH AND BE ORIENTATED SO THAT THE LONG DIMENSION IS TRANSVERSE TO THE DOMINANT DIRECTION OF TRAVEL. FINISH TO BE SLIP RESISTANT.
- 43. IN MULCHED AREAS ALL GRATED PITS ARE TO BE FITTED WITH A PERMEABLE GEOTEXTILE TO PREVENT MULCH FROM BLOCKING DRAINAGE SYSTEM.
- 44. WHERE NEW PAVEMENTS ARE LOCATED OVER EXISTING SERVICES, CONTRACTOR TO ALLOW TO EXCAVATE TRENCH BACKFILL & REPLACE WITH CLASS 3 CRUSHED ROCK COMPACTED AS SPECIFIED.
- 45. INSPECTION OPENINGS (I.O'S) ARE TO BE PROVIDED TO INTERNAL DRAINAGE PIPEWORK AS REQUIRED ALL IN ACCORDANCE WITH AS3500.3. 46. FOR ANY REQUIRED ACCESSIBLE PATHS OF TRAVEL THE SELECTED GROUND FLOOR PAVEMENT MATERIALS
- WILL NEED TO BE AN ACCESSIBLE SLIP-RESISTANT SURFACE WITH A TEXTURE THAT ALLOWS IT TO BE TRAVERSABLE BY A WHEELCHAIR AND PEOPLE WITH AN AMBULANT OR SENSORY DISABILITY (AS1428.1,
- 47. CONTRACTOR TO ALLOW TO DOWEL ALL NEW EXTERNAL PAVEMENTS TO THE STRUCTURE AS A MINIMUM AT ALL DOORS AND AS SHOWN ON THE PLAN.
- 48. TRENCH GRATES AT PITS TO BE LOCATED CLEAR OF TGSI'S REFER ARCHITECTURE DRAWINGS FOR TGSI
- 49. PROVIDE F.P (FLUSH POINT) TO END OF EACH AG DRAIN NOT NECESSARILY SHOWN ON PLAN.

EARTHWORKS NOTES:

- 1. REFER GEOTECHNICAL REPORT BY WGA. REF NO.WGA201630-RP-GE-0001[A] DATED 17/12/2020. REFER GEOTECHNICAL REPORT FOR CONDITIONS THAT ARE LIKELY TO BE ENCOUNTERED DURING THE
- PROPOSED EARTHWORKS. 2. ALL EARTHWORKS AND GROUND PREPARATION IS TO BE CARRIED OUT IN ACCORDANCE WITH AS 3798.
- 3. IT IS RECOMMENDED THAT THE EARTHWORKS IS UNDERTAKEN DURING THE DRIER MONTHS WHERE 4. ALL TEMPORARY BATTERS ARE TO BE CUT AT A SLOPE AS INDICATED ON THE DRAWINGS OR IN THE
- GEOTECHNICAL REPORT FOR THE VARIOUS MATERIALS. SPECIFIC GEOTECHNICAL ADVICE IS TO BE SOUGHT FOR BATTERS IN EXCESS OF 2m IN HEIGHT. 5. EXCAVATED MATERIAL IS NOT TO BE USED AS STRUCTURAL ENGINEERED FILL UNDER BUILDINGS OR
- (i) ANY IMPORTED FILL MATERIAL IS TO BE APPROVED BY THE GEOTECHNICAL ENGINEER AND IS TO BE MOISTURE CONDITIONED AND PLACED ENTIRELY IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER UNDER HIS ENTIRE SUPERVISION. ANY REQUIRED FILL IS TO BE IMPORTED GRANULAR NON-ORGANIC, NON-REACTIVE FILL FREE OF ANY CONTAMINATION. SUITABLE MATERIAL TYPES INCLUDE NON-DISCRIPT CRUSHED ROCK, RIPPED MUDSTONE, SILTSTONE, VICROADS TYPE A
- FILL OR EQUIVALENT AND IS TO CONFORM WITH THE REQUIREMENTS AS NOMINATED BELOW. (ii) THE PLACEMENT MOISTURE CONTENT NOMINATED BELOW COMPLIES WITH THE GEOTECHNICAL CONSULTANTS REQUIREMENTS. AND ALLOWS FILLING TO BE PLACED AND PROOF ROLLED IN ACCORDANCE WITH THE SPECIFICATION. WHERE NECESSARY THE CONTRACTOR MUST MOISTURE CONDITION ANY FILL MATERIAL TO MEET THESE REQUIREMENTS. THE SITE SHALL BE RE-TESTED AND
- RE-CLASSIFIED BY THE GEOTECHNICAL ENGINEER ONCE THE FILLING HAS BEEN COMPLETED (iii) ALL COSTS ASSOCIATED WITH THE APPROVAL, SUPERVISION AND TESTING REQUIREMENTS OF THE REQUIRED GEOTECHNICAL ENGINEER ARE TO BE BOURNE BY THE CONTRACTOR.
- A COMPACT FILL ADEAS AND SURGDADE TO NOT LESS THAN

CUMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:				
LOCATION	COHESIVE SOILS STANDARD DRY DENSITY (AS 1289 5.4.1)	COHESIONLESS SOILS DENSITY INDEX (AS 1289 5.6.1)	MOISTURE (OMC)	
UNDER BUILDING SLABS ON GROUND	98%	75%	±2%	
UNDER ROADS, PAVEMENTS, CARPARKS	98%	75%	±2%	
LANDSCAPE AREAS	95%	70%	±2%	

- 7. THE MOISTURE CONTENT OF THE TOP 200mm OF THE SUBGRADE SHOULD BE ADJUSTED TO WITHIN ±2% OF THE STANDARD OPTIMUM MOISTURE CONTENT BY EITHER ADDING MOISTURE OR WORKING THE SUBGRADE ACCORDINGLY. THE MOISTURE CONTENT LEVEL SHALL BE MAINTAINED UNTIL THE PAVEMENTS HAVE BEEN CONSTRUCTED. IF SUBGRADE IS UNWORKABLY WET, CONSIDERATION TO LIME OR CEMENT STABILISATION MAY BE MADE AND THE GEOTECHNICAL ENGINEERS ADVICE SHOULD BE SOUGHT ON THIS MATTER.
- 8. WHERE ENGINEERED FILL IS TO SUPPORT BUILDINGS OR PAVEMENTS, LEVEL 1 SUPERVISION AND TESTING PROCEDURES MUST BE ADOPTED IN ACCORDANCE WITH AS 3798–1996 "GUIDELINES FOR EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENT", WHICH REQUIRE A FULL TIME PRESENCE ON-SITE DURING EARTHWORKS BY A GEOTECHNICAL PRACTITIONER TO ENSURE COMPLIANCE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERS
- 9. ON COMPLETION OF THE SUBGRADE PREPARATION THE SUBGRADE SHOULD BE IMMEDIATELY CAPPED AND SEALED WITH A MINIMUM 150mm LAYER OF CRUSHED ROCK AND THE STORMWATER CONNECTED. IF NECESSARY A TEMPORARY 'ABOVE GROUND' DRAINAGE SYSTEM SHOULD BE INCORPORATED TO DIRECT ANY SURFACE WATER AWAY FROM ANY PREPARED PAVEMENT SUBGRADE OR SUB-BASE. PONDING OF WATER ON THE PREPARED SUBGRADE OR SUB-BASE SHALL NOT BE PERMITTED.
- 10. BEFORE PLACING ANY FILL, PROOF ROLL EXPOSED SUBGRADE WITH A MINIMUM OF 8 PASSES OF A 10 TONNE ROLLER TO TEST SUBGRADE. PROOF ROLL TO BE WITNESSED BY THE GEOTECH ENGINEER. REMOVE ANY SOFT SPOTS. SOFT SPOTS TO BE REPLACED WITH CLASS 4 FINE CRUSHED ROCK. REPEAT THE PROCESS UNTIL IT PASSES.
- 11. FOR CONSTRUCTION DURING WET WEATHER THE CONTRACTOR IS TO ALLOW TO PROVIDE A TEMPORARY ACCESS TRACK CONSISTING OF 75mm MINUS NDCR, RECYCLED BRICK, CONCRETE RUBBLE
- 12. CONTRACTOR SHALL PLACE SAFETY BARRIERS AROUND EXCAVATIONS IN ACCORDANCE WITH RELEVANT SAFETY REGULATIONS.
- 13. ANY BULK EARTHWORKS DRAWINGS ARE NOT TO BE USED FOR DETAILED EXCAVATION. 14. THE CONTRACTOR IS TO MAKE PROVISIONS FOR THE EFFECTIVE DIVERSION AND REMOVAL (INCLUDING SUMPS & PUMPS AS REQUIRED) OF ALL SURFACE WATER FROM THE PREPARED SUB-GRADES AND
- EXCAVATIONS FROM ANY SOURCE. WATER IS NOT TO BE PERMITTED TO POND IN ANY EXCAVATIONS OR AT THE TOES OF ANY BATTER SLOPES.
- 15. THE CONTRACTOR SHALL APPLY ANY MEASURES NECESSARY TO MINIMISE THE LEVEL OF AIRBORNE DUST AS A CONSEQUENCE OF THE WORKS UNDER CONTRACT. 16. THE CONTRACTOR IS RESPONSIBLE MAINTAINING ALL EXTERNAL ROADS AND FOOTPATHS IN A CLEAN
- STATE AND IN A SAFE MANNER WHILST UNDERTAKING THE WORKS. 17. ANY IMPORTED FILLING USED SHALL BE CLEAN AND ESSENTIALLY OF GRANULAR NATURE, NON-ORGANIC AND HAVE A PLASTICITY INDEX OF LESS THAN 12%. FILL MATERIAL SHALL HAVE A NOMINAL PARTICLE SIZE OF 40mm OR LESS AND AS A GUIDE TO SELECTING THE APPROPRIATE MATERIAL THE PI x %PASSING A 0.425mm SIEVE (AS SIEVE) SHOULD BE LESS THAN OR EQUAL TO
- 600. THE GEOTECHNICAL ENGINEER IS TO APPROVE ANY IMPORTED FILL. 18. CONTRACTOR IS TO ALLOW TO REMOVE SURPLUS EXCAVATED MATERIAL OFF SITE UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT
- 19. MINIMUM CBR REQUIRED FOR PAVEMENT SUBGRADE TO BE 3.0% BEFORE COMMENCING ANY 20. THE CONTRACTOR IS TO ALLOW TO STRIP AS A MINIMUM THE LAYER OF ANY ORGANICS OR FILL
- UNDER ANY BUILDINGS OR PROPOSED PAVEMENTS & SLABS. REFER GEOTECHNICAL REPORT FOR 21. TESTING OF SUBGRADE, PREPARED SUBGRADE & BASE LAYERS OF CRUSHED ROCK TO BE
- UNDERTAKEN & CARRIED OUT IN ACCORDANCE WITH AS 3798. DOCUMENTARY EVIDENCE OF SAME IS TO BE PROVIDED TO THE SUPERINTENDENT 22. THE CONTRACTOR IS TO NOTIFY ALL SERVICE AUTHORITIES & ARRANGE FOR DISCONTINUANCE OF SERVICES OR SUPPLY AS APPLICABLE & DO ALL CUTTING, DISCONNECTION OR SEALING OFF OF
- SERVICES & DRAINS AS REQUIRED. SERVICES OR SUPPLY LINES THAT ARE TO BE RETAINED SHALL REMAIN & GIVEN ALL NECESSARY PROTECTION. 23. THE CONTRACTOR SHALL DO ALL BRACING NECESSARY TO RETAIN EARTH BANKS, ROADS,
- PAVEMENTS, WALLS & FOOTINGS OF ADJOINING PROPERTIES & PREVENT CAVING & DISPLACEMENT OF ADJACENT SOIL OR STRUCTURES & PROVIDE ALL NECESSARY COMPONENTS OF SUCH BRACING. 24. THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED TO PROVIDE SUPERVISION OF EXCAVATIONS
- ADJACENT TO EXISTING BUILDINGS/PAVEMENTS TO PREVENT DAMAGE OR INSTABILITY. 25. THE BUILDER SHALL BE RESPONSIBLE FOR VIBRATION CONTROLS DURING EXCAVATION &
- COMPACTION OPERATION. 26. BLASTING OF ROCK IS NOT PERMITTED.

EROSION AND SEDIMENT CONTROL NOTES:

- 1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
 - (A) LOCAL AUTHORITY REQUIREMENTS.
 - (B) EPA POLLUTION CONTROL MANUAL FOR URBAN STORMWATER,
 - (C) EPA CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL,
 - (D) DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT MANUAL -"URBAN EROSION & SEDIMENT CONTROL"
- EROSION AND SEDIMENT CONTROL IS TO BE PROVIDED FOR THE WHOLE OF THE WORKS. SEDIMENT CONTROL IS TO BE IN ACCORDANCE WITH ANY REQUIREMENTS OF THE LOCAL COUNCIL OR ANY AUTHORITY HAVING JURISDICTION OVER THE WORKS. THE EROSION AND SEDIMENT CONTROL SHALL BE IMPLEMENTED AND ADOPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- 4. WHEN STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING THE PITS UNLESS
- SILT FENCES ARE ERECTED AROUND PITS. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
- 6. PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE
- MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES. 7. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH
- WORKING DAY, AND MODIFIED TO BEST SUIT SITE CONDITIONS. WHERE POSSIBLE CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER
- 9. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE NOMINATED
- CONSTRUCTION ENTRY/EXIT. 10. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING.
- 11. MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. INSPECT STORMWATER SYSTEM AND CLEAN OUT AFTER EACH STORM EVENT.
- 12. CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT. 13. PRIOR TO COMMENCEMENT OF EXCAVATION THE FOLLOWING SOIL MANAGEMENT DEVICES MUST BE
- 13.1 CONSTRUCT SILT FENCES BELOW THE SITE AND ACROSS ALL POTENTIAL
- 13.2 CONSTRUCT TEMPORARY CONSTRUCTION ENTRY/EXIT AND DIVERT RUNOFF TO SUITABLE CONTROL SYSTEMS

CONTROL AND OVERFLOW.

13.3 CONSTRUCT MEASURES TO DIVERT UPSTREAM FLOWS INTO EXISTING STORMWATER SYSTEMS. 13.4 CONSTRUCT REQUIRED SEDIMENTATION TRAPS/BASIN INCLUDING OUTLET

IMPORTANT DRAINAGE NOTE: WHERE NEW DRAINS ARE NOTED TO BE CONNECTED INTO EXISTING DRAINS.

EXISTING DRAINS 'BEFORE' ANY NEW DRAINS ARE LAID.

THE CONTRACTOR IS TO VERIFY THE ASSUMED INVERT LEVELS OF ALL THE

THE SUPERINTENDENT IS TO BE INFORMED OF ANY DISCREPANCIES IN EXISTING

INVERT LEVELS PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS.

ADVERTISED

B | 12.05.21 | TOWN PLANNING ISSUE RZ RZ RZ RZ △ | 16.04.21 | DD ISSUE DRAFT | ENG. | CHKD REV. DATE DESCRIPTION Level 2, 31 Market Street, South

LIMINARY

St. IGNATIUS SENIOR SCHOOL 27 PENINSULA DRIVE, DRYSDALE, VIC 3222

WALLBRIDGE GILBERT

CIVIL DRAWING LIST & STANDARD NOTES

DRAWING NUMBER Job Number

^{Drawn} WGA201630-DR-CV-0001 ₿

Melbourne

Victoria 3205

Telephone 03 9696 9522

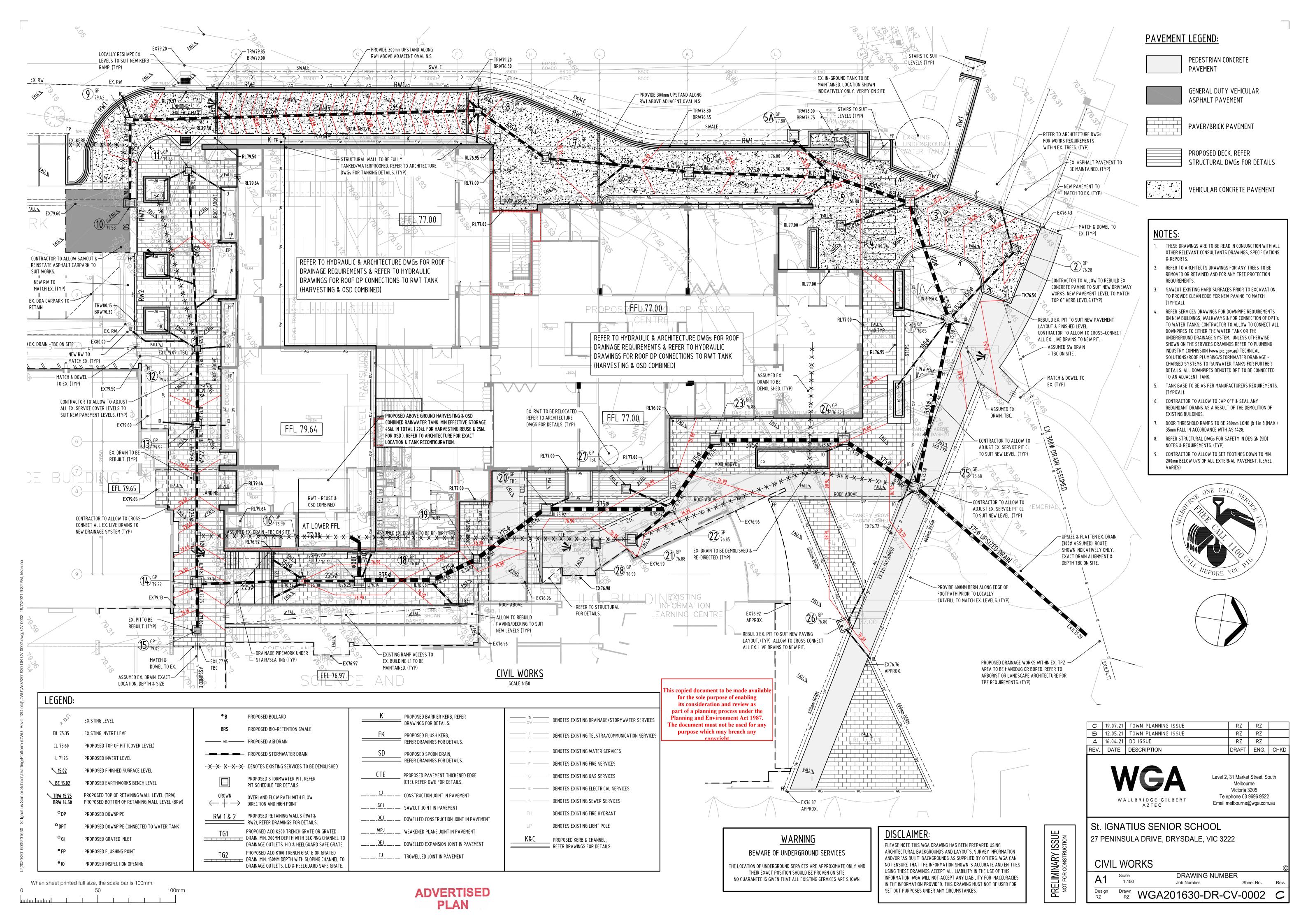
Email melbourne@wga.com.au

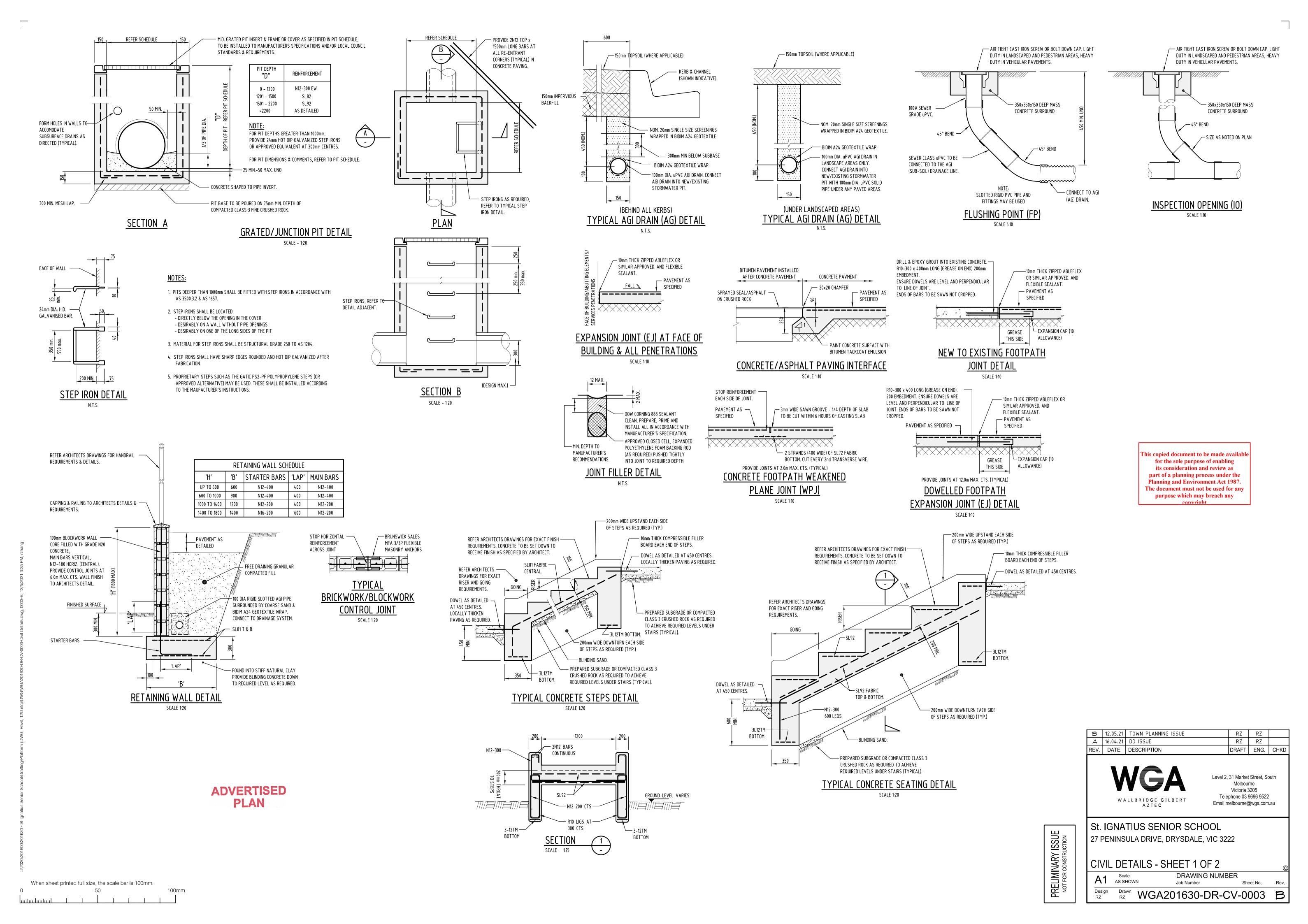
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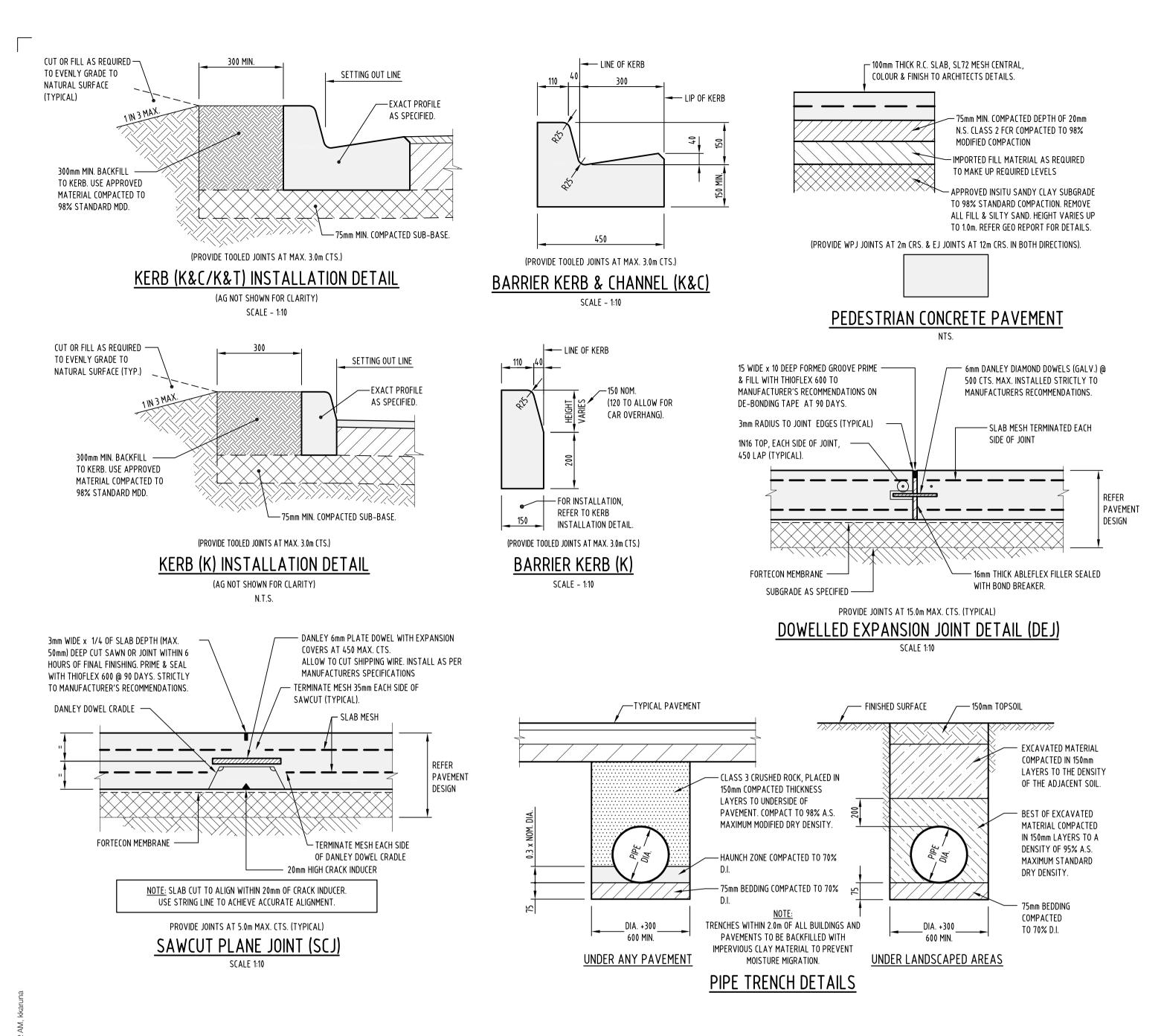
14. ALL PRIMARY REINFORCEMENT SHALL BE PLACED OUTERMOST FOLLOWING LINESS OTHERWISE INSTRUCTED BY THE SUPERINTENDENT

INCLUDING AT THE PLACEMENT OF THE POLYTHENE MEMBRANE AND PRIOR TO THE PLACEMENT OF

POUR EXCEEDS 32° THE BUILDER SHALL NOTIFY WGA OF HIS INTENTION TO POUR CONCRETE. WGA, AT THEIR DISCRETION MAY OR MAY NOT PERMIT CONCRETE POURING.

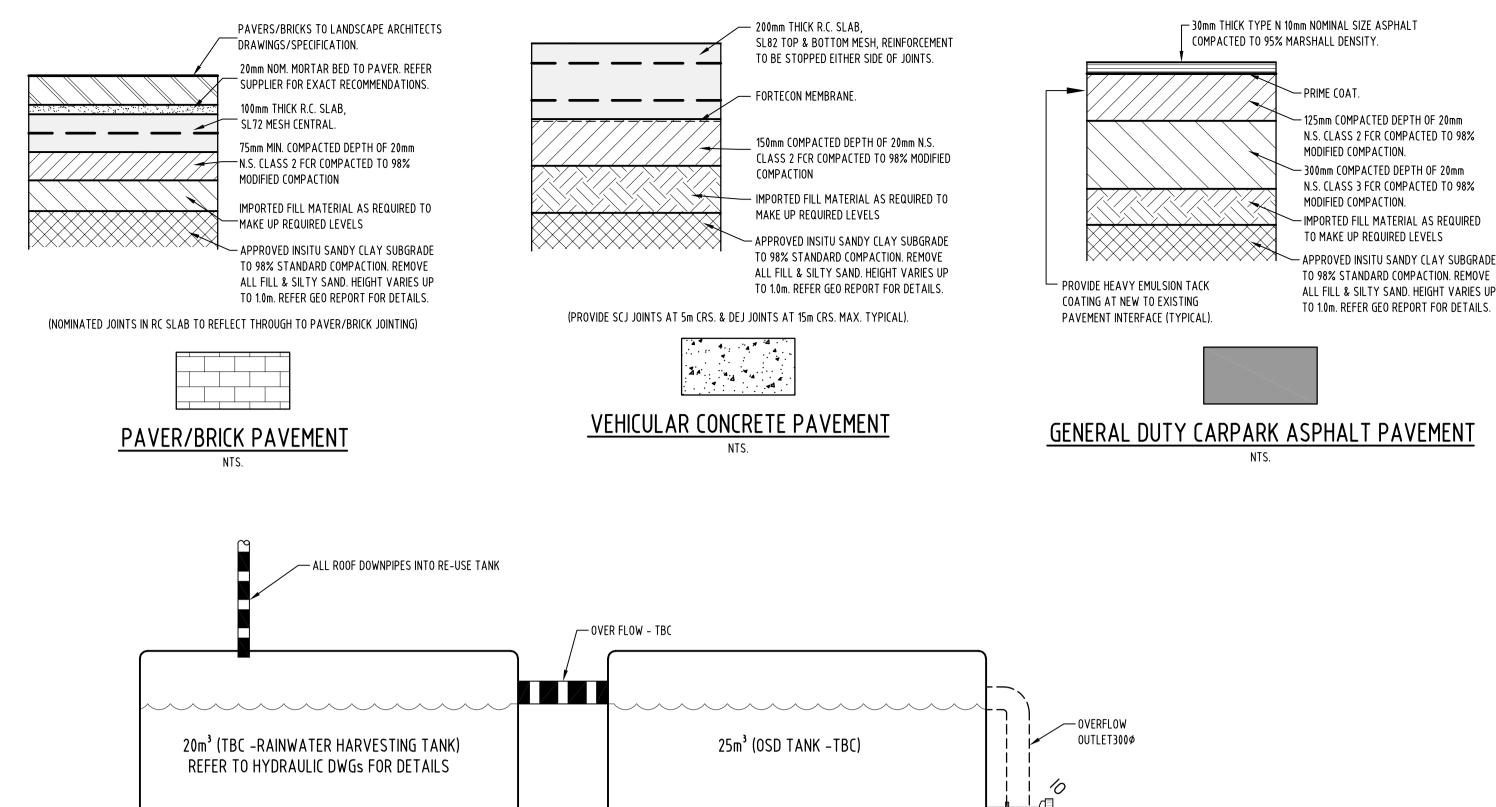






NOTE:

THE SITE IS OVERLAIN BY SILTY SANDS (VARIES NOMINAL 800mm DEEP). THE CONTRACTOR IS TO ALLOW TO STRIP OUT ALL SILTY SANDS TO REVEAL THE NATURAL SANDY CLAY SUBGRADE UNDER ALL PAVEMENTS AND TO BUILD PAVEMENTS UP OFF THE SANDY CLAY SUBGRADE.



ADVERTISED PLAN

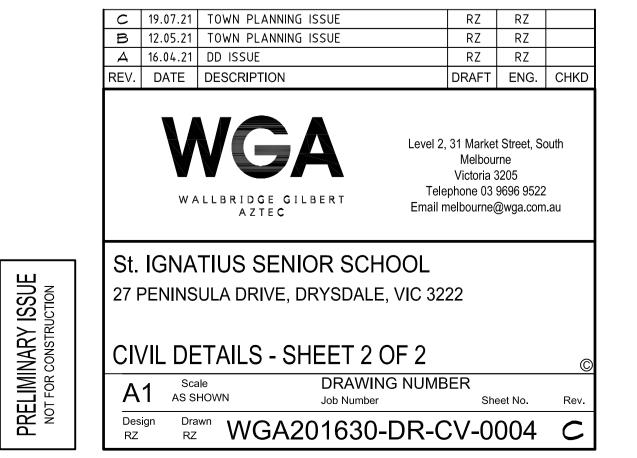
OSD/RWT TANKS ELEVATION

SCALE - NTS

LOW FLOW

OUTLET - 150¢

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