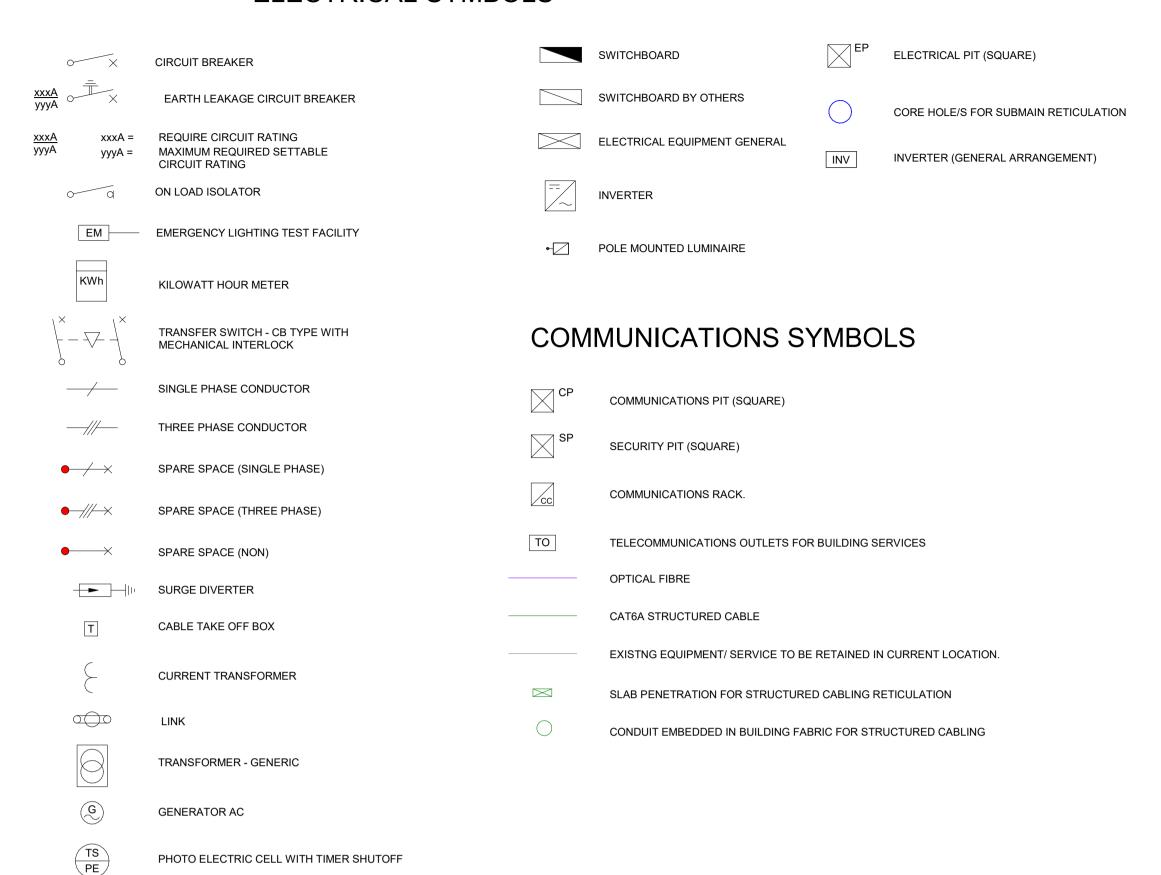
ELECTRICAL SYMBOLS



PHASING

CONTAINMENT FIXTURES / FITTINGS DENOTES EXISTING ELECTRICAL DENOTES EXISTING ELECTRICAL SERVICES TO BE DEMOLISHED OR RELOCATED DENOTES EXISTING ELECTRICAL SERVICES RELOCATED POSITION LINETYPE FOR RELOCATED OR NEW

CABLETRAY/CONDUIT DETERMINED BY SYSTEM

CONDUIT

_ 1/E _ - _ - _ LOW VOLTAGE ELECTRICAL CONDUIT _ - 1/C _ COMMUNICATION CONDUIT - 1/S - SECURITY CONDUIT

COLOURS ABOVE ARE INDICATIVE OF NEW SERVICE CONDUIT. WHERE CONDUIT IS EXISTING AND TO REMAIN, EXISTING AND TO BE DEMOLISHED OR EXISTING AND TO BE RELOCATED, COLOURS ARE AS PER PHASING SECTION OF

300 ECT POWER CABLE TRAY 300 CCT COMMUNICATIONS CABLE TRAY POWER VERTICAL CABLE TRAY

COMMUNICATIONS VERTICAL CABLE TRAY

CABLE TRAY

EXAMPLE - 300 ECT

- 300 DENOTES WIDTH DENOTES SERVICE TYPE E = POWER C = COMMUNICATIONS S = SECURITY B = BMS

CONDUIT, SIZE AS INDICATED
1: INDICATES NUMBER OF CONDUITS

E: INDICATES ELECTRICAL CONDUIT

S: INDICATES SECURITY CONDUIT

C: INDICATES COMMUNICATIONS CONDUIT

DENOTES CABLE CONTAINMENT TYPE CT = CABLE TRAY CL = CABLE LADDER CB = CABLE BASKET

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS.
- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SERVICES SPECIFICATIONS.
- DO NOT SCALE FOR SIZING. REFER TO ARCHITECTURAL, MANUFACTURERS DOCUMENTATION AND SPECIFICATION FOR EXACT MEASUREMENTS.
- CONTRACTOR TO CONDUCT FULL SITE SURVEY TO CONFIRM EXACT LOCATIONS OF ALL EXISTING ELECTRICAL
- ALL WORKS ARE NEW UNLESS NOTED OTHERWISE.
- EACH CAPTIVE SCREW OUT SHALL BE ON A DEDICATED CIRCUIT. EACH PAIR OF OUTLETS PROVIDED TO A RACK SHALL BE ON THE SAME PHASE.
- THE CONTRACTOR IS TO REFER TO THE SSU BRIEF FOR THE SECURITY SCOPE AND TECHNICAL REQUIREMENTS.
- ALL NEW DATA CABLING IS TO MEET THE DoE STRUCTURED CABLING SYSTEM SPECIFICATION v1.4.
- THE CONTRACTOR IS TO REFER TO THE NSW PUBLIC SCHOOLS AUDIO-VISUAL STANDARDS FOR SCHOOL LEARNING DISPLAYS FOR AV SCOPE AND TECHNICAL REQUIREMENTS.
- THE CONTRACTOR IS TO ALLOW TO MAKE GOOD WHERE DEMOLITION OF EXISTING SERVICES OCCURS.

ABBREVIATIONS

AUTOMATIC TRANSFER SWITCH DOUBLE GENERAL POWER OUTLET DOUBLE TELECOMMUNICATIONS OUTLET GENERAL POWER OULET (SINGLE) GPO LED LIGHT EMITTING DIODE STO SINGLE TELECOMMUNICATIONS OUTLET TO TELECOMMUNICATIONS OUTLET

WEATHER PROOF

Education **School Infrastruture**

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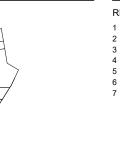
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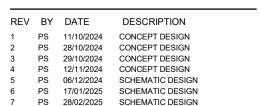
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DRAWING TITLE

ELECTRICAL SERVICES

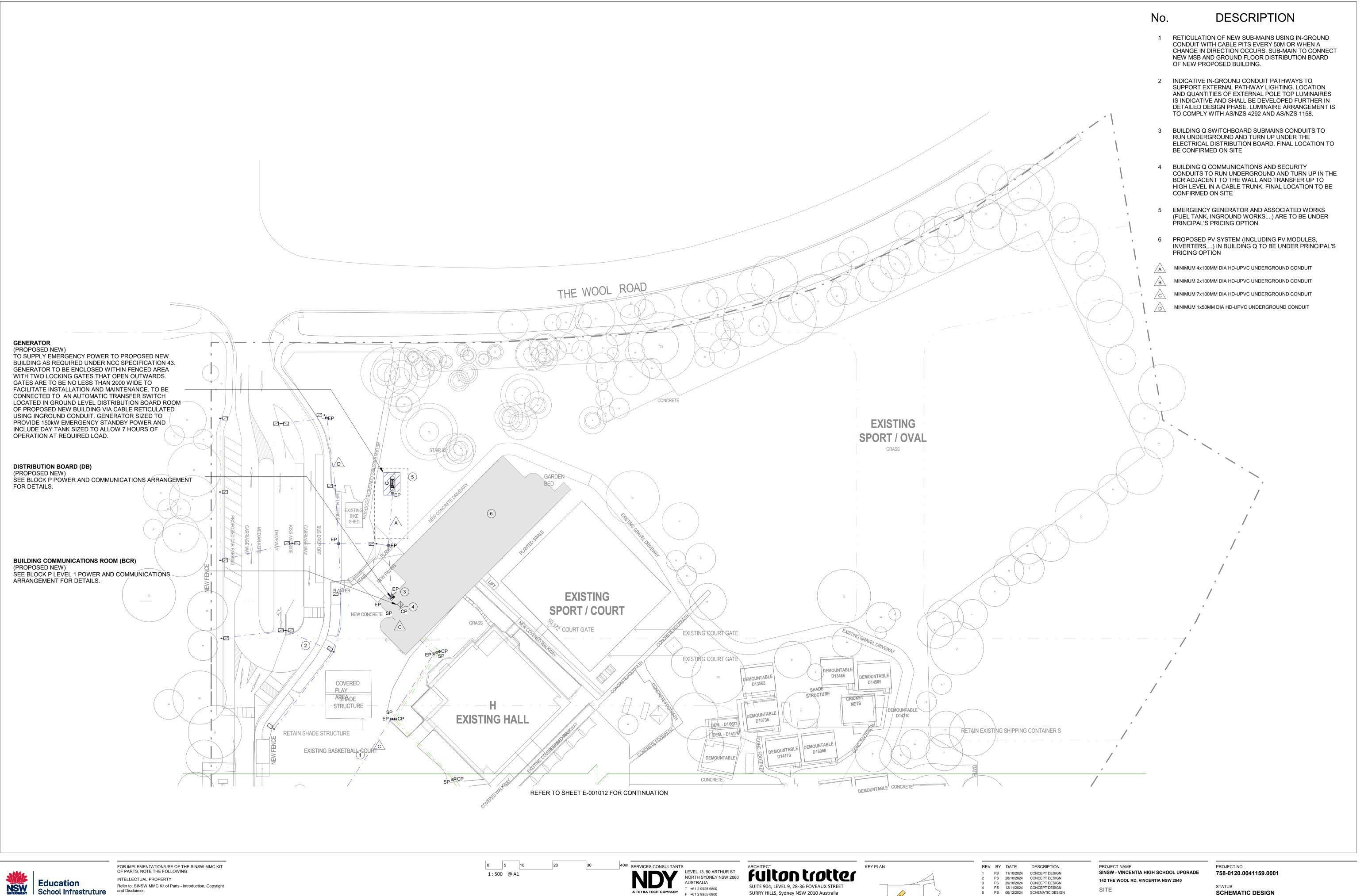
LEGEND & GENERAL NOTES

758-0120.0041159.0001 SCHEMATIC DESIGN

DRW | CHK | APP | DATE PS | PD | PL | 28/02/2025 | 1:100 @A1

DRAWING NO. VHS-NDY-XX-XX-DR-E-000001







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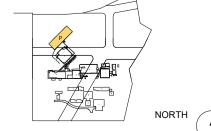
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SURRY HILLS, Sydney NSW 2010 Australia T +61 2 8383 5151 W www.fultontrotter.com.au PROJECT MANAGER

Converting visions to reality

RP INFRASTRUCTURE



PS 06/12/2024 SCHEMATIC DESIGN 6 PS 17/01/2025 SCHEMATIC DESIGN PS 28/02/2025 SCHEMATIC DESIGN 8 PS 01/04/2025 SCHEMATIC DESIGN

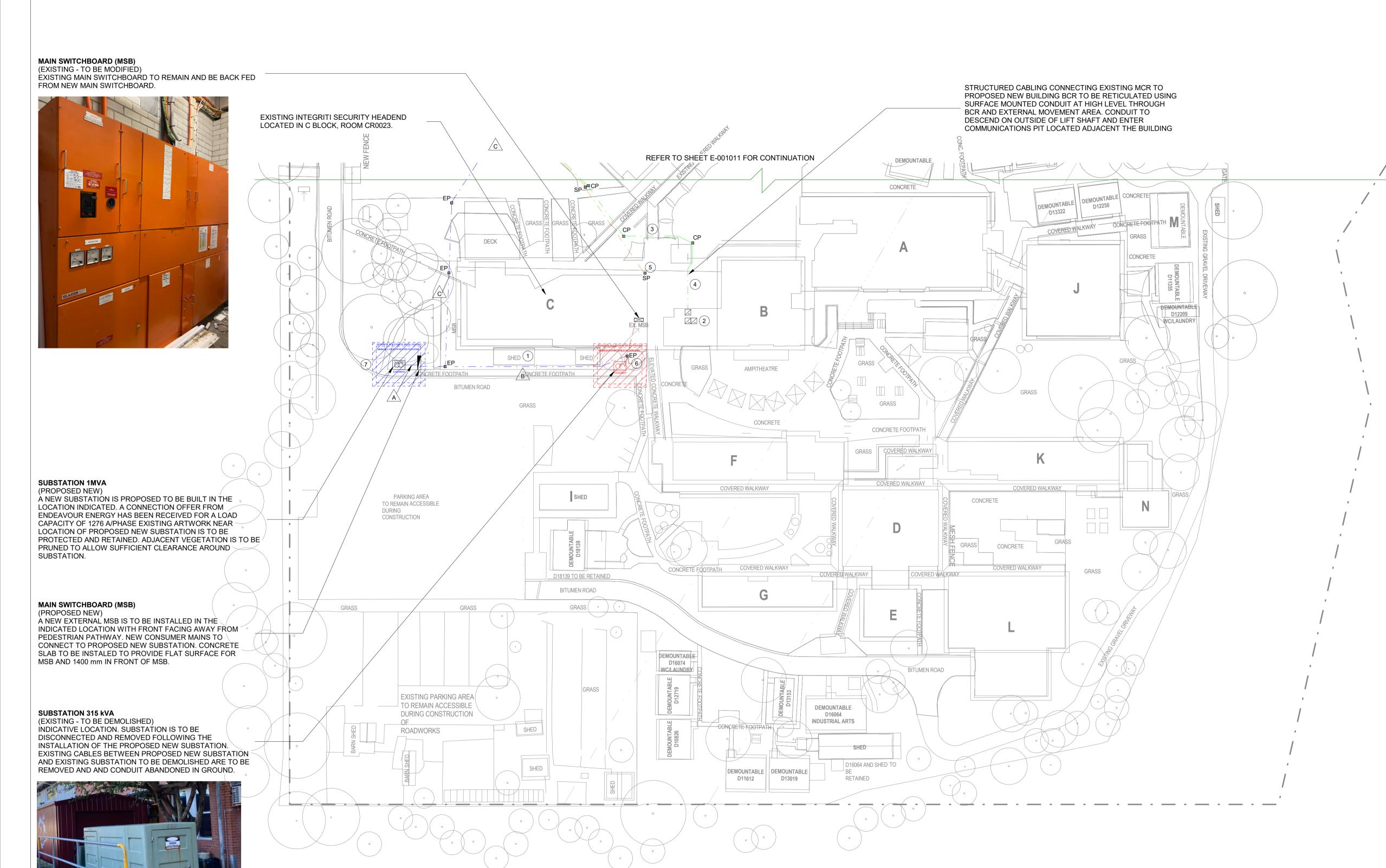
DRAWING TITLE **ELECTRICAL SERVICES**

SITE PLAN SHEET 1 OF 2

PS | PD | PL | 01/04/2025 | 1 : 500 @A1

DRAWING NO.

VHS-NDY-00-00-DR-E-001011



DESCRIPTION

- 1 NEW SUBMAINS TO BE RETICULATED BETWEEN NEW MSB AND EXISTING MSB. IN-GROUND CONDUIT WITH CABLE PITS EVERY 50M OR WHEN CHANGE IN DIRECTION OCCURS.
- 2 INDICATIVE LOCATION OF EXISTING MAIN COMMUNICATIONS ROOM. INCLUDES EXISTING CCTV NETWORK VIDEO RECORDER.
- PROPOSED RETICULATION PATH OF COMMUNICATIONS AND SECURITY CABLE FROM EXISTING MCR AND SECURITY HEADEND TO BCR IN PROPOSED NEW BLOCK. COMMUNICATIONS CABLE PIT ADJACENT TO BLOCK B TO BE P8 TYPE. COMMUNICATIONS CABLE PIT ADJACENT TO PROPOSED NEW BLOCK TO BE P5 TYPE. COMMUNICATIONS CONDUIT IS TO CONSIST OF MINIMUM 2x 100mm DIAMETER. OTHER COMMUNICATIONS PITS ALONG CONDUIT RETICULATION PATH TO BE P6 TYPE. ALL COMMUNICATION CABLE PITS USED ARE TO HAVE CONCRETE LIDS. NEW SECURITY CONDUIT IS TO CONSIST OF MINIMUM 2x 50mm CONDUIT. SECURITY CABLE PITS TO BE SIZED BASED ON SITE CONDITIONS AND MANUFACTURER REQUIREMENTS.
- STRUCTURED CABLING CONNECTING EXISTING MCR TO PROPOSED NEW BUILDING BCR TO BE RETICULATED USING SURFACE MOUNTED CONDUIT AT HIGH LEVEL THROUGH BCR AND EXTERNAL MOVEMENT AREA. CONDUIT TO DESCEND ON OUTSIDE OF LIFT SHAFT AND ENTER COMMUNICATIONS PIT LOCATED ADJACENT THE BUILDING
- 5 SECURITY CONDUITS TO PENETRATE IN THE WALL CAVITY AND TRANSFER FROM LOW LEVEL TO CEILING SPACE AND CONTINUE TO HEAD END
- 6 LOCATE EXISTING MSB UNDERGROUND CONDUITS AND INSTALL A NEW PIT TO ALLOW THE CONNECTION OF NEW CONDUITS AND EXISTING CONDUITS. RE-USE THE EXISTING CONDUITS TO RUN THE EXISTING MDB NEW SUBMAINS
- SUBSTATION SCOPE IS SUBJECT TO A SEPARATE PLANNING



MCR COMMUNICATIONS CABINETS

GENERAL NOTES

- EXISITNG BARIX PA SYSTEM HEADEND LOCATED IN BLOCK C. ASSUME SYSTEM IS TO BE EXTENDED TO INCLUDE PROPOSED NEW BUILDINGS. DOE INFORMATION TECHNOLOGY TEAM TO CONFIRM.
- EXISTING CONCEPT SECURITY HEADEND LOCATED IN BLOCK C. ASSUME SECURITY SYSTEM IS REQUIRED TO BE UPGRADED TO INTEGRITI HEADEND SYSTEM. SCHOOL SECURITY UNIT TO CONFIRM.
- LOCATION OF UNDERGROUND CONDUITS AND PITS IS INDICATIVE AND NEEDS TO BE VERIFIED ON SITE



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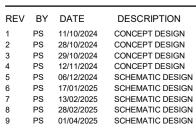
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PROJECT MANAGER





SINSW - VINCENTIA HIGH SCHOOL UPGRADE 142 THE WOOL RD, VINCENTIA NSW 2540 SITE

DRAWING TITLE

ELECTRICAL SERVICES

SITE PLAN SHEET 2 OF 2

SCHEMATIC DESIGN

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DRAWING NO.

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GENERAL HYDRAULIC NOTES

- 1. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS. SERVICES AND STRUCTURES ON SITE PRIOR TO COMMENCEMENT OF
- 2. CONTRACTOR SHALL ARRANGE FOR ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- 3. ON COMPLETION OF PROPOSED WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KREBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS UNLESS NOTED OTHERWISE.
- 4. MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD WHERE REQUIRED.
- 5. WHERE NEW WORKS ABUT EXISTING THE SUB CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- 6. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER OR IN CLOSE PROXIMITY TO THESE SERVICES. HAND EXCAVATE IN THESE AREAS.
- 7. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND COMMUNICATION/SECURITY DRAWINGS AND SPECIFICATIONS.
- 8. CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER NON CORROSIVE CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- 9. ALL ELEVATED SERVICES PIPEWORK SHALL BE CLEARLY LABELED IN ACCORDANCE WITH REQUIREMENTS OF AS3500 AND AS1345.
- 10. ALL ELEVATED SERVICES SHALL BE CHARGED AND TESTED PRIOR TO CONCEALMENT.
- 11. ALL SERVICE CONDUITS SHOWN ARE INDICATIVE ONLY AND FINAL PIPE AND CONDUIT DETAILS AND LOCATIONS ARE TO BE OBTAINED BY THE SUB CONTRACTOR COORDINATING WITH AND GAINING CONFIRMATION FROM THE RELEVANT SERVICES.
- 12. ELECTRICAL CONDUITS FOR HYDRAULIC SERVICES PLANT AND EQUIPMENT SHALL BE ORANGE HEAVY DUTY RIGID TYPE IN ACCORDANCE WITH CATEGORY 'A' OF AS3000 AND AS DESCRIBED IN THE ELECTRICAL SPECIFICATION AND DOCUMENTATION.
- 13. ON COMPLETION, ALL PIPEWORK SHALL BE SUBJECT TO A PRESSURE TEST REQUIRED BY THE HYDRAULIC SERVICES CONSULTANT. ANY DEFECTS FOUND IN THE SYSTEM SHALL BE REMEDIED AND THE TEST RE-
- 14. TRENCHES THROUGH EXISTING ROAD AND CONCRETE AREAS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING. REINSTATE WITH ADDITIONAL REINFORCEMENT AND DOWELING AS REQUIRED BY STRUCTURAL ENGINEERS.
- 15. CONTRACTOR SHALL PROVIDE ALL TIMBERING, SHORING AND SHUTTERING AS NECESSARY TO CONSTRUCT PIPEWORK INCLUDING THE REMOVAL OF SAME UPON COMPLETION OF PIPEWORK.
- 16. CONTRACTOR SHALL OBTAIN ALL AUTHORITY APPROVALS AND PAY ALL
- 17. ALL WORK TO BE IN ACCORDANCE WITH THE RELEVANT WATER AUTHORITY, FIRE AND RESCUE NSW, AS3500, AS2444, AS2419 AND RELATED STANDARDS AS APPROPRIATE.
- 18. CONTRACTOR TO PROVIDE 'AS BUILT' DOCUMENTATION UPON PRACTICAL COMPLETION OF THE PROJECT AND SHALL BE IN CAD FORMAT (AUTOCAD) AND REVIT 3D MODELING.
- 19. ORIGIN OF LEVELS: AUSTRALIAN HEIGHT DATUM.
- 20. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- 21. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND OR AN APPROVED GRANULAR MATERIAL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 E1.1.
- 22. ALL SERVICES THAT CROSS FOOTINGS ETC. SHALL BE BACKFILLED WITH GRANULAR MATERIAL TO SUBGRADE LEVEL AND COMPACTED TO 95%
- 23. FOR INTERNAL LAYOUTS OF THE BUILDING FOR THE CORE AMENITIES -REFER TO THE PATTERN BOOK SUITE OF DOCUMENTATION (SOURCED VIA SINSW).

FIRE HYDRANT NOTES

A 50% SCHEME DESIGN (PHASE 3)

- 1. EXTERNAL HYDRANTS SHALL BE POSITIONED NOT LESS THAN 10m FROM THE BUILDING IT IS PROTECTING, UNLESS PROTECTED BY A CONSTRUCTION HAVING A FIRE RESISTANCE LEVEL OF NOT LESS THAN 90/90/90 EXTENDING AT LEAST 2m EITHER SIDE OF THE HYDRANT OUTLET AND 3m FROM THE GROUND LEVEL ADJACENT TO THE HYDRANT, OR THE HEIGHT OF THE BUILDING, WHICHEVER IS THE LESSER.
- 2. ALL HYDRANTS SHALL BE INSTALLED SO THAT THE VALVE OUTLET IS AT RIGHT ANGLES TO THE FACE OF THE WALL BEHIND (IF ANY) AND THE VALVE OUTLET IS HORIZONTAL OR SLOPING NOT MORE THAN 35 DEGREES BELOW THE HORIZONTAL.
- 3. ALL HYDRANTS SHALL BE INSTALLED TO PROVIDE A MINIMUM OF 100mm CLEARANCE AROUND THE HANDWHEEL IN ALL DIRECTIONS.
- 4. ALL HYDRANT PIPEWORK SHALL BE SUPPORTED IN ACCORDANCE
- 5. ALL HYDRANT PIPEWORK SHALL BE IDENTIFIED IN ACCORDANCE WITH AS1345.

SANITARY DRAINAGE AND STORMWATER NOTES

- 1. CONTRACTOR TO PROVIDE ANY ADDITIONAL EXCAVATION (INCLUDING IN ROCK), BACKFILL OF PIPES. FITTINGS AND ALL JUMP-UPS TO LOCAL AUTHORITY REQUIREMENTS INCLUDING THOSE TO BRANCH DRAINS.
- 2. ALL MANHOLES GREATER THAN 1.2m DEEP SHALL BE CONSTRUCTED WITH STEP IRONS TO LOCAL WATER AUTHORITY REQUIREMENTS.
- 3. DRAINS TO BE SUPPORTED ON OR FROM SOLID GROUND. LOCATION AND DEPTH/INVERT LEVEL OF BRANCH SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK.
- 4. DRAINS UNDER BUILDINGS SHALL BE RETESTED WHERE DIRECTED BY MANAGING CONTRACTOR.
- 5. PROVIDE 80mm COMPRESSIBLE EXPANDED FOAM MATERIAL OVER PIPEWORK WHERE CLEARANCE TO UNDERSIDE OF FOOTING IS LESS THAN 150mm, UNLESS
- 6. SANITARY DRAINAGE LINES SHALL BE CONSTRUCTED OUTSIDE ZONE OF INFLUENCE OF STRUCTURAL BEAMS AND PIPES.
- 7. ALL BUILDING SANITARY DRAINAGE PIPEWORK SHALL BE UPVC-DWV UNLESS NOTED OTHERWISE.
- 8. ALL PIPE JUNCTIONS, BENDS AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS. MITRE FITTINGS WILL NOT BE ACCEPTED IN ANY CIRCUMSTANCE.
- 9. ALL CONNECTIONS TO DRAINAGE PITS AND MANHOLES SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH AND MADE WATERTIGHT.
- 10. PIPE BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH AS3500 AND ALSO IN ACCORDANCE WITH THE HYDRAULIC SERVICES SPECIFICATION.
- 11. WHERE STORMWATER LINES PASS UNDER FLOOR SLABS SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.

SANITARY PLUMBING NOTES

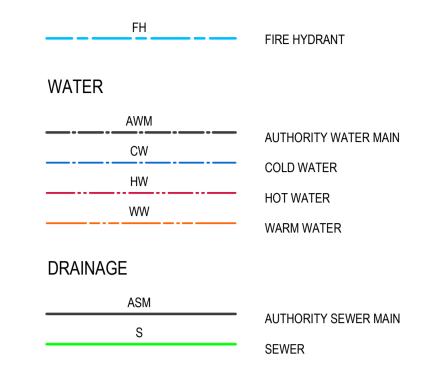
- 1. ALL BRANCH LINES SHALL BE GRADED AND/OR LOWERED TO AVOID PENETRATING STEEL BEAMS. THE SUB CONTRACTOR SHALL PROVIDE ANY ADDITIONAL PIPE LENGTHS AND WORK, INCLUDING CONSTRUCTION OF ADDITIONAL INSPECTION OPENINGS, AS REQUIRED BY THE LOCAL AUTHORITY.
- 2. COORDINATE WITH STRUCTURAL DRAWINGS. NO STEEL REINFORCING BARS TO BE CUT WITHOUT PRIOR WRITTEN APPROVAL FROM STRUCTURAL ENGINEER.
- 3. ALL ROOF PENETRATIONS TO DETAIL AND PAINTED (COLOUR TO BE ADVISED). ALL VENTS SHALL BE OFFSET IN ROOF SPACE MINIMUM 600mm FROM EAVES AND AS SHOWN ON ARCHITECTURAL DRAWINGS AND COMPLY WITH THE BUSH FIRE CODE REQUIREMENTS.
- 4. EXPOSED PIPEWORK WITHIN WET AREAS SHALL BE CHROME PLATED COPPER
- 5. ALL SANITARY PLUMBING PIPEWORK SHALL BE UPVC-DWV UNLESS NOTIFIED OTHERWISE.
- 6. ALL PIPE PENETRATIONS AT WALLS SHALL BE FITTED WITH A PUDDLE FLANGE AND MADE GOOD AND WATERTIGHT.
- 7. ALL SUSPENDED SLAB PENETRATIONS SHALL BE FORMED BY PATENT "SLABSEAL" OR OTHER APPROVED FIRE ISOLATING CAST-IN PENETRATION AND APPROVED (IN WRITING) BY THE MANAGING CONTRACTOR. THIS SHALL NOT RELIEVE THE SUB CONTRACTOR OF THE RESPONSIBILITY FOR THEIR LOCATION AND SIZE.
- 8. ALL CORE HOLE LOCATIONS SHALL BE APPROVED BY THE MANAGING CONTRACTOR PRIOR TO COMMENCEMENT OF CORING.

WATER SERVICES NOTES

- 1. DOMESTIC WATER PIPEWORK SHALL BE TYPE 'B' COPPER TUBE. FOR ALL MAIN RUNS INCLUDING SUPPLY TO FIRE HOSE REELS SEE ALSO HYDRAULIC SERVICES SPECIFICATION.
- 2. SUPPLY COLD WATER RETICULATION TO ALL NEW FIXTURES AND FITTINGS, ALL PIPEWORK TO BE CONCEALED IN WALL CAVITIES AND CEILING SPACES. NO PIPEWORK WILL BE SURFACE MOUNTED OR MADE VISIBLE, PIPEWORK TO FIXTURES WHERE VISIBLE IN CUPBOARD SPACES SHALL BE CHROMIUM PLATED.
- 3. ALL HOT WATER PIPEWORK TO BE FULLY INSULATED TO AS3500. ALL COLD WATER PIPING WITHIN WALL CHASES TO BE INSULATED WITH KEMLAG OR EQUAL.
- 4. ALL HOT WATER PIPEWORK SHALL BE INSULATED: Ø20mm AND SMALLER – KEMLAG, Ø25mm - THERMOTECH 4-ZERO OR APPROVED EQUAL.
- 5. ALL COLD WATER PIPEWORK SHALL BE Ø20 MINIMUM, EXCEPT THE LAST 3000mm OF RUN OUT TO ANY SINGLE FIXTURE MAY BE Ø15, UNLESS NOTED OR SHOWN OTHERWISE.
- 6. ALL INTERNAL HOSE TAPS SHALL BE 15mm, UNLESS NOTED OTHERWISE. ALL EXTERNAL OR PLANT ROOM HOSE TAPS SHALL BE 20mm, UNLESS NOTED OTHERWISE.
- 7. ALL BRANCHES FROM MAIN LINES SHALL BE FITTED WITH ISOLATING VALVES AS REQUIRED TO ISOLATE GROUPS OR SINGLE FIXTURES.
- 8. BACKFLOW PREVENTION: ALL HOSE COCKS SHALL BE FITTED WITH APPROVED BACKFLOW PREVENTING VACUUM BREAKERS AND INDIVIDUAL STOP TAPS UNLESS NOTED OTHERWISE.

PIPEWORK LEGEND

FIRE



FIRE (EXISTING)

WATER (EXISTING)

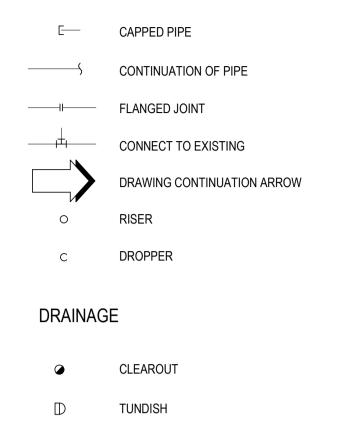
EXISTING AUTHORITY WATER MAIN EXISTING COLD WATER

DRAINAGE (EXISTING)

EXISTING AUTHORITY SEWER MAIN EXISTING SEWER

SYMBOLS

GENERAL



WATER

 \bigotimes ISOLATION VALVE IN PATH BOX DUAL CHECK VALVE TESTABLE DOUBLE CHECK VALVE

FLOOR WASTE

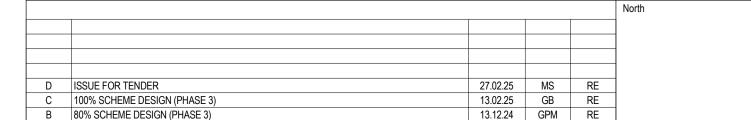
WATER METER

FIRE HYDRANTS

EXTERNAL DUAL PILLAR FIRE HYDRANT

ABBREVIATIONS

AMU	ASSET MANAGEMENT UNIT
В	BASIN
CO CS CW	CLEAROUT CLEANERS SINK COLD WATER
DCV DUCV	DOUBLE CHECK VALVE DUAL CHECK VALVE
е	EXISTING
FH FW	FIRE HYDRANT FLOOR WASTE
H/L HW HWU	HIGH LEVEL HOT WATER HOT WATER UNIT
I/G IO	IN GROUND INSPECTION OPENING
MECH	MECHANICAL
PE PG	POLYETHYLENE PRESSURE GAUGE
S SIL SINSW SW	SEWER SEWER INVERT LEVEL SCHOOL INFRASTRUCTURE NSW STORMWATER
TD TD/MECH TR	TUNDISH TUNDISH/MECHANICAL TROUGH
WC WM WS	WATER CLOSET WATER METER WASTE STACK
V	VENT



FULTON TROTTER ARCHITECTS

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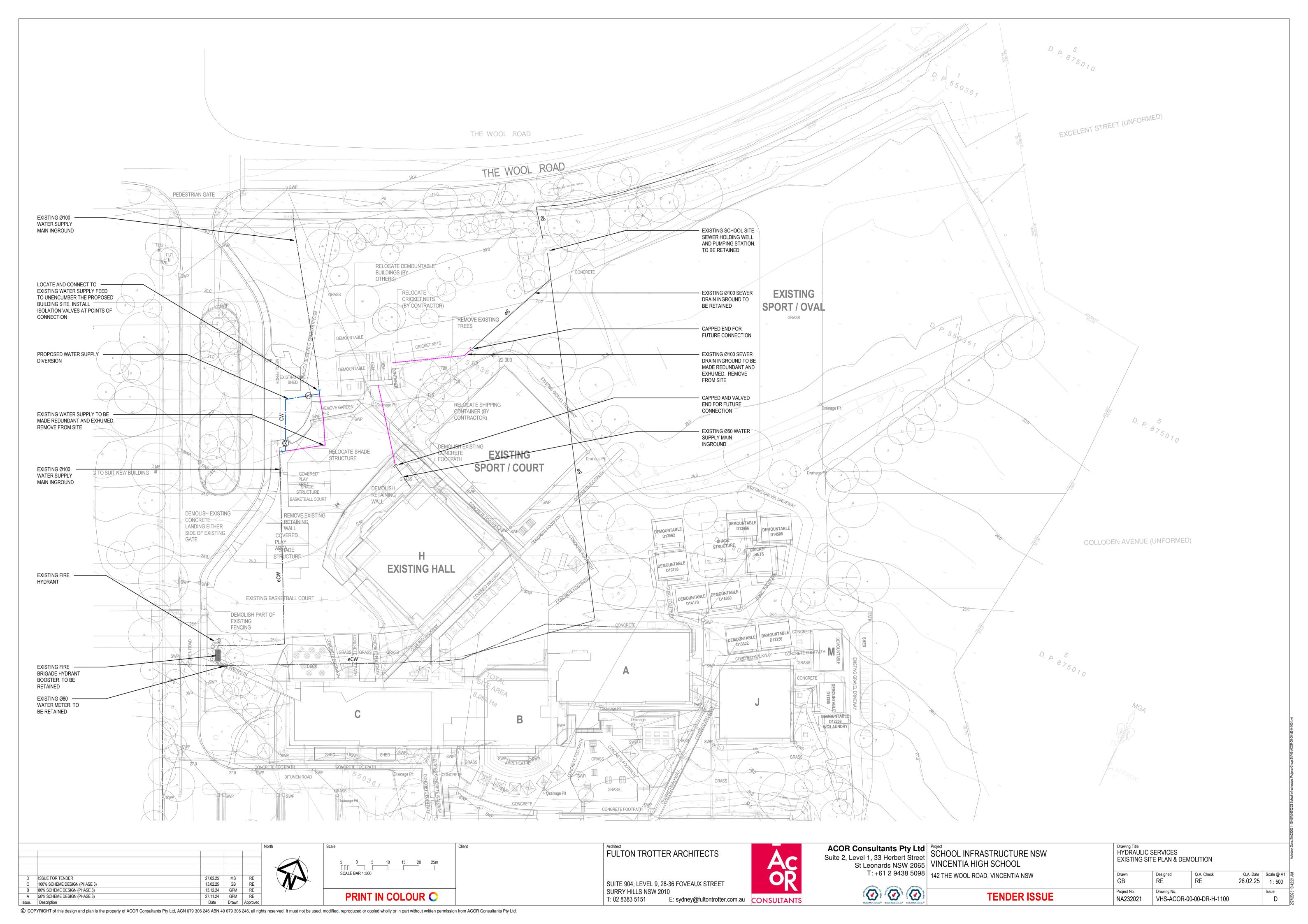
TENDER ISSUE

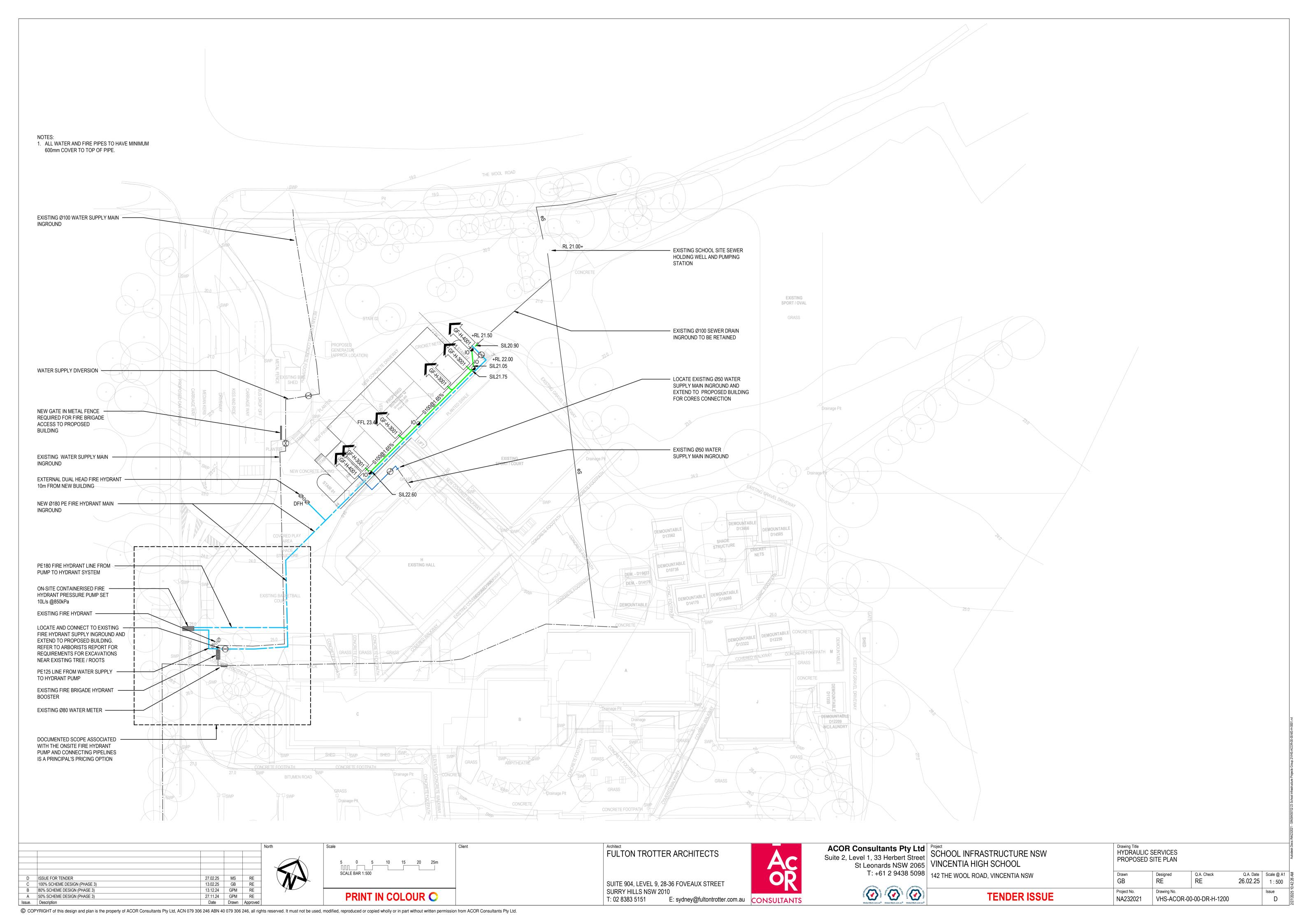
HYDRAULIC SERVICES LEGEND & GENERAL NOTES

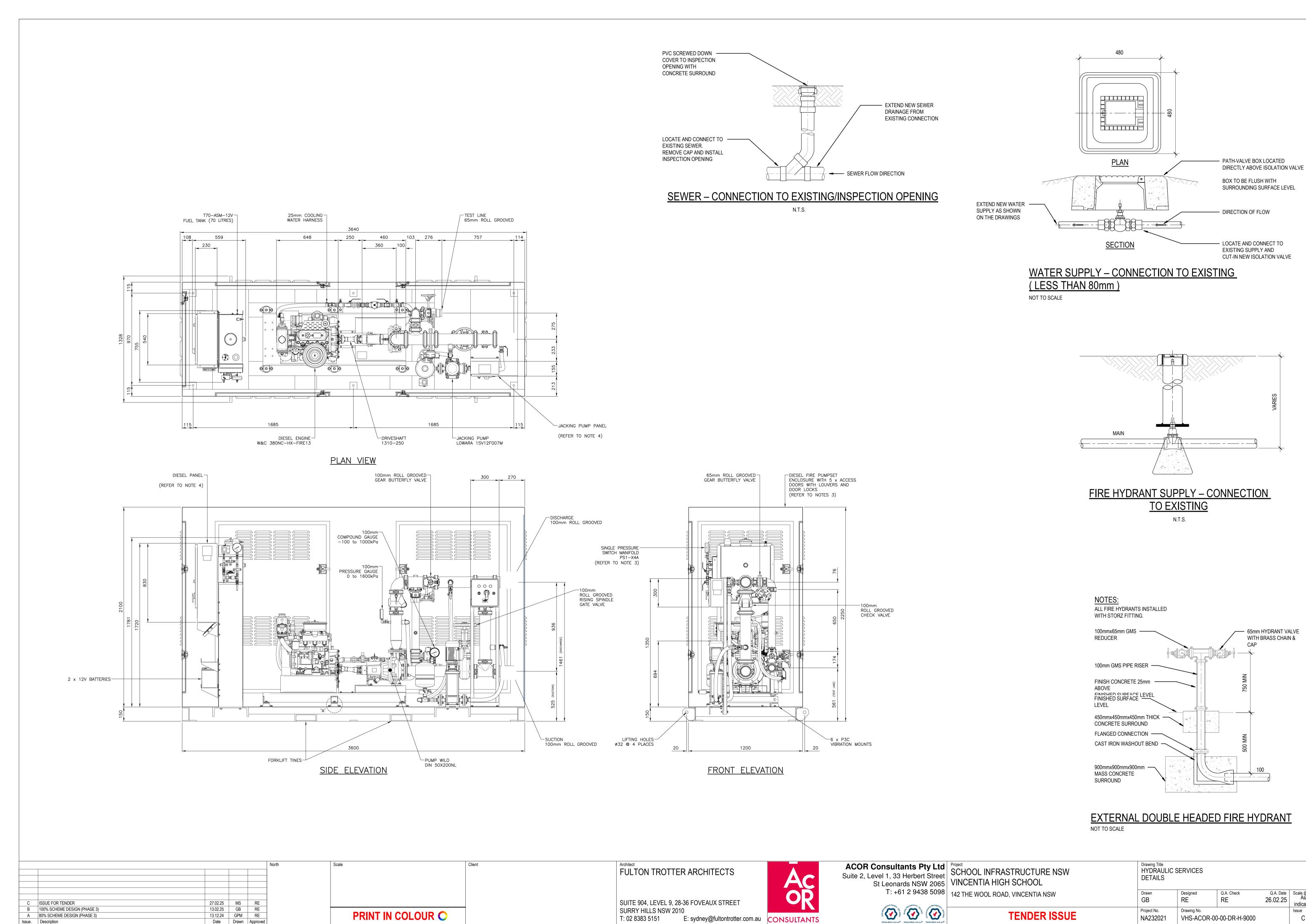
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