

ENGINEER'S INSTRUCTION

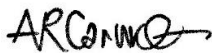
Attention: Sam Stapleton BCA Contact: Antony Caruso
Company: JAA Date: 04 June 2021
Project Ref.: 6629.4.210603.E.1 Pages: 1
Project Name: **ACHA CSSD COMPLIANCE PROJECT – WASTE MANAGEMENT BUILDING EARLY WORKS**
Instruction No. **E01**

The following amendments have been made to the Tender documentation for the above project. Please acknowledge receipt of this correspondence and drawings / specification revisions in offer. Adjust pricing accordingly:

Summary of Amendments

Drawing No.	Title	Revision
6629.4-E201	Power, Communications & Luminaires <ul style="list-style-type: none">Additional evacuation lighting recommended.	T2

Signed:



Antony Caruso
BEng E&E Hons MIEAust CPEng NER RPEQ
Director

ENGINEER'S INSTRUCTION

Attention: Sam Stapleton BCA Contact: Antony Caruso
Company: JAA Date: 04 June 2021
Project Ref.: 6629.4.210603.G.1 Pages: 1
Project Name: **ACHA CSSD COMPLIANCE PROJECT – WASTE MANAGEMENT BUILDING EARLY WORKS**
Instruction No. G01

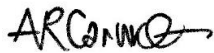
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Summary of Amendments

Drawing No.	Title	Revision
6629 Set	<p>Mechanical</p> <p>Nominated specialist sub-contractors / trade / suppliers:</p> <p>Trade Description Building Management System (BMS) Contact: Frank Pergoleto Company: Schneider Contact details: P 08 8161 0942 M 0411 328 854 E Frank.pergoleto@se.com</p> <p>Electrical</p> <p>Nominated specialist sub-contractors / trade / suppliers:</p> <p>Trade Description Electronic Security Systems Contact: Shane Egel Company: Chubb Security Contact details: M 0401 778 331 E Shane.egel@chubb.com.au</p> <p>Trade Description Duress Alarm Systems Contact: Frank Pergoleto Company: Schneider Contact details: P 08 8161 0942 M 0411 328 854 E Frank.pergoleto@se.com</p>	n/a

	<p>Trade Description</p> <p>Contact:</p> <p>Company:</p> <p>Contact details:</p>	<p>Access Control System</p> <p>Frank Pergoleto</p> <p>Schneider / Kronos</p> <p>P 08 8161 0942</p> <p>M 0411 328 854</p> <p>E Frank.pergoleto@se.com</p>	
	<p>Trade Description</p> <p>Contact:</p> <p>Company:</p> <p>Contact details:</p>	<p>Nurse Call / Staff Intercom</p> <p>Eugene Greco</p> <p>Rauland</p> <p>M 0418 459 806</p> <p>E eugenegreco@rauland.com.au</p>	

Signed:



Antony Caruso
BEng E&E Hons MIEAust CPEng NER RPEQ
 Director

ENGINEER'S INSTRUCTION

Attention: Sam Stapleton BCA Contact: Antony Caruso
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Instruction No. H01

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Summary of Amendments

Drawing No.	Title	Revision
6629.4-H201	Drainage & Reticulation <ul style="list-style-type: none">• Additional level detail for new sewer drain.• Sewer drain to be HDPE material up to connection with settling pit• Added note for new 150mm sewer drain and connection to be at maximum depth.• Additional note regarding water and sewer connection: The application has been started with SA Water. Hydraulic contractor to obtain approval and pay all fees for the new connections.• Delete 50mm domestic cold-water supply to main building.	T2

Signed,



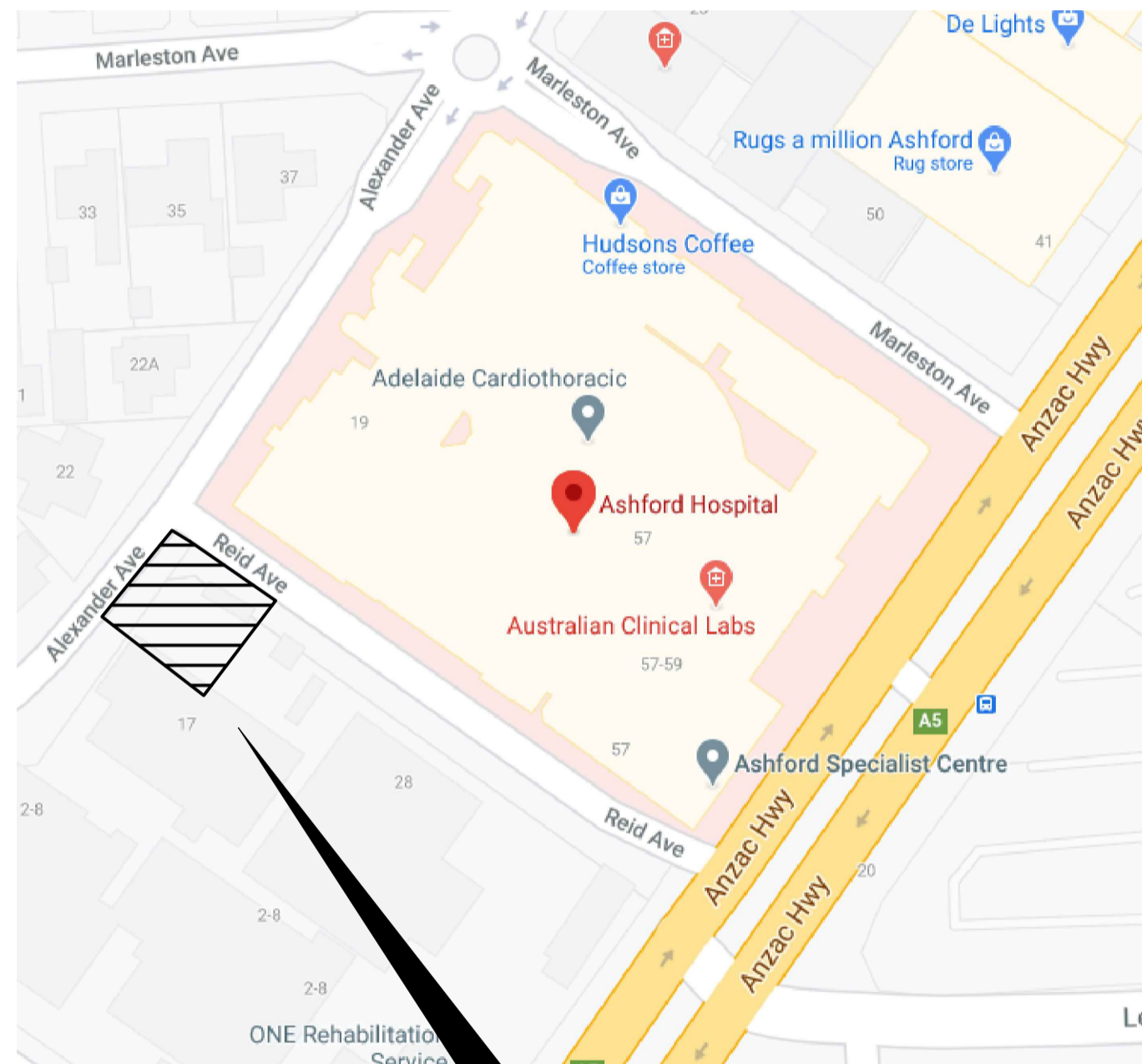
Gwenael Le Chenadec
Hydraulic Engineer

ACHA NEW CSSD WASTE BUILDING EARLY WORKS

ELECTRICAL SERVICES

DRAWING INDEX

6629.4-E100	COVER SHEET, DRAWING INDEX, LOCATION PLAN & LEGEND OF SYMBOLS
6629.4-E200	SITE PLAN, EXISTING/DEMOLITION & PROPOSED ARRANGEMENT.
6629.4-E201	PROPOSED POWER, COMMUNICATIONS & LUMINAIRE ARRANGEMENT
6629.4-E500	ELECTRICAL SINGLE LINE DIAGRAM, COMMUNICATIONS & SECURITY SCHEMATIC DIAGRAMS



SITE OF WORKS

LEGEND OF SYMBOLS

POWER

- 10A, SINGLE PHASE, SINGLE SWITCHED SOCKET OUTLETS. (NON-ESSENTIAL POWER)
- 10A, SINGLE PHASE, TWIN SWITCHED SOCKET OUTLET. (NON-ESSENTIAL POWER)
- ELECTRICAL DISTRIBUTION BOARD.
- DISTRIBUTION BOARD ZONE.
- LIGHT/POWER SUB-CIRCUIT GROUP.
- PROPOSED ROUTE OF NEW HIGH VOLTAGE CABLING.
- INDICATIVE ROUTE OF EXISTING HIGH VOLTAGE CABLING.
- PROPOSED ROUTE OF NEW LOW VOLTAGE CABLING.
- INDICATIVE ROUTE OF EXISTING LOW VOLTAGE CABLING.

- 100-DENOTES SIZE OF CONDUITS
- E-ELECTRICAL, C-COMMUNICATIONS
- 2-DENOTES NUMBER OF CONDUITS
- ELECTRICAL CABLE PIT.
- DEDICATED EQUIPMENT AS NOTED
- LIGHT/POWER DEDICATED SUB-CIRCUIT
- SINGLE LINE DENOTES NON-ESSENTIAL POWER SUPPLY. DOUBLE LINE DENOTES ESSENTIAL POWER SUPPLY.
- SUBCIRCUIT RCD PROTECTED UNLESS SHOWN OTHERWISE.

MECHANICAL SERVICES POWER

- (REFER SINGLE LINE DIAGRAM AND ELECTRICAL REQUIREMENTS APPENDIX FOR DETAILS).
- LOCATION OF POWER SUPPLY FOR MECHANICAL EXHAUST FAN.
- IDENTIFICATION NUMBER
- T-TOILET, K-KITCHEN, G-GENERAL, L-LAUNDRY, CP-CAR PARK
- FP-FIRE PUMP, DCW-DOMESTIC COLD WATER, RH-RANGE HOOD

COMMUNICATIONS

- WIRELESS LOCAL AREA NETWORK DUAL COMMUNICATIONS OUTLET.
- PROPOSED ROUTE OF NEW COMMUNICATIONS CABLING.
- INDICATIVE ROUTE OF EXISTING COMMUNICATIONS CABLING.

COMMUNICATIONS CABLE PIT

- COMMUNICATIONS CABLE PIT.
- 10A, TWO WAY LIGHT SWITCH. (InG - DENOTES NUMBER OF GANGS).
- LIGHT SWITCHING GROUP.
- LUMINAIRES SWITCHED FROM MULTI GANG SWITCH PLATE.
- PHOTO-ELECTRIC CELL FOR EXTERNAL LIGHTING CONTROL.

SECURITY/CCTV/ACCESS CONTROL

- SECURITY MOTION DETECTOR.
- CARD READER.
- REED SWITCH.
- ELECTRO-MAGNETIC LOCK.
- SECURITY DATA GATHERING PANEL.
- CCTV CAMERA, COMPLETE WITH 8 OUTPUT, 5AMP, 24Vac POWER SUPPLY.

LEGEND OF SYMBOLS (Cont)

SPECIALIST EQUIPMENT

- COMPACTOR
- CARDBOARD BAILER.
- ROLLER DOOR
- HOT WATER UNIT
- 1200 MOUNTING HEIGHT AFFL.
- AB MOUNTING HEIGHT ABOVE BENCH LEVEL (150mm).
- CL MOUNTING HEIGHT ABOVE BENCH LEVEL (150mm).
- CM CEILING MOUNTED.
- CS MOUNTED WITHIN CEILING SPACE.
- WP WEATHERPROOF (MINIMUM IP56 RATED, UNLESS OTHERWISE NOTED)
- (ID) EXISTING ITEM TO BE REMOVED.
- (IE) EXISTING ITEM TO REMAIN.
- (IR) EXISTING ITEM RELOCATED IN NEW POSITION.
- (IRE) EXISTING ITEM TO BE REMOVED FOR RELOCATION.

SCHEDULE OF LUMINAIRES

LIGHTING - GENERAL

- L1** 150W, LED, SUSPENDED LOW BAY LUMINAIRE, IP56.
- L2** 40W, LED, LINEAR STRIP, WALL MOUNTED LUMINAIRE, IP56.
- L3** 75W, LED, WALL MOUNTED, AREA LUMINAIRE, PE CELL & TIMELOCK CONTROLLED, IP56.
- L4** 20W, LED, WALL MOUNTED, FLOOD LIGHT C/W INTEGRAL MOTION SENSOR, IP56.

LIGHTING - EXIT AND EMERGENCY

- EM1** 2x3W LED, NON-MAINTAINED RECESSED CIRCULAR EMERGENCY LUMINAIRE, WHITE TRIM, C/W L10 LITHIUM IRON BATTERY PACK, IP20, CLASSIFICATION C0/D50 (CLEVERTRONICS 'LIFELIGHT PRO' OR EQUAL APPROVED)

- EX1** 1x3W LED MAINTAINED BLADE STYLE EXIT LUMINAIRE, CEILING/WALL MOUNTED AS REQUIRED, C/W PICTOGRAPH 'RUNNING MAN' INSERT AND DIRECTIONAL ARROWS AS REQUIRED, C/W L10 LITHIUM IRON BATTERY PACK, IP20, CLASSIFICATION C0/D8 C90/D3.2 (CLEVERTRONICS 'SWINGBLADE' OR EQUAL APPROVED)

- /EM** AS PER TYPE '???' EXCEPT MAINTAINED EMERGENCY VERSION, IP65.

NOTES:

- ALL LUMINAIRES TO BE SUPPLIED COMPLETE WITH ELECTRONIC CONTROL GEAR & '4000K' MINIMUM LAMPS UNLESS NOTED OTHERWISE.
- ALL EXIT/EMERGENCY LUMINAIRES TO BE COMPLIANT WITH 'AS/NZS-2293'. ALL EXIT/EMERGENCY LUMINAIRES MARKED "/>

GENERAL NOTES:

GENERAL

- THESE ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS, DETAILS AND THE PERFORMANCE BRIEF.
- ALL WORKS AND EQUIPMENT SHALL COMPLY WITH ALL RELEVANT CODES AND STATUTORY REQUIREMENTS IN PARTICULAR AS 3000, AS 3008, AS 2293, AS 1670, AS 2201, AS 11801, AS 1136 AND AS 1939.
- LABEL ALL EQUIPMENT AND ACCESSORIES (SWITCHES, POWER OUTLETS, COMMUNICATIONS OUTLETS ETC) WITH DISTRIBUTION BOARD NUMBER AND CIRCUIT NUMBER.
- LOCATIONS OF ELECTRICAL EQUIPMENT SHOWN ARE INDICATIVE ONLY. CO-ORDINATE FINAL ELECTRICAL EQUIPMENT LOCATIONS WITH ALL OTHER SERVICES DETAILS AND TRADE DISCIPLINES ON SITE.
- LOCATE ALL CONTROLS IN ACCESSIBLE POSITIONS. DISTRIBUTION BOARD LOCATION SHOWN IS RECOMMENDED, UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE IN MILLIMETRES.
- REFER TO ARCHITECTURAL AND JOINERY DRAWINGS FOR ALL SET-OUTS AND FINAL LOCATIONS OF ELECTRICAL EQUIPMENT AND ACCESSORIES.
- TENDERER SHALL BECOME FAMILIAR WITH THE SITE AND EXISTING EQUIPMENT AND INSTALLATION CONDITIONS. NO VARIATION WILL BE ENTERTAINED FOR UNKNOWN SITE CONDITIONS.
- EXISTING EQUIPMENT SHOWN ON DEMOLITION PLANS IS INDICATIVE ONLY. ALLOW TO INVESTIGATE ON SITE TO DETERMINE FULL EXTENT OF DEMOLITION WORKS. SEEK CLARIFICATION FOR ANY EXISTING ITEMS NOT SHOWN TO REMAIN.
- ALLOW TO SEAL ALL PENETRATIONS THROUGH FULL HEIGHT WALLS AND FIRE SEAL ALL PENETRATIONS THROUGH FIRE/SMOKE BARRIER WALLS AND FLOORS (TO MATCH THE DESIGNED FIRE RATING OF THE BUILDING STRUCTURE AND 'BCA' AND FIRE REGULATIONS APPLICABLE REQUIREMENTS).

CABLE

- ALL CABLES SHALL BE THERMOPLASTIC INSULATED AND SHEATHED MULTI - STRANDED COPPER CONDUCTORS, UNLESS OTHERWISE NOTED.
- FINAL SUB-CIRCUIT CABLING SHALL BE MINIMUM 2.5mm² STRANDED FOR LIGHTING AND 4.0mm² STRANDED FOR POWER. ALL FINAL SUB-CIRCUITS SHALL BE SIZED FOR MAXIMUM VOLTAGE DROP OF 2.5% FROM THE RESPECTIVE DISTRIBUTION BOARD.
- ENSURE ANY CABLE JOINTS DONE IN-GROUND ARE APPROPRIATELY SEALED USING A PROPRIETARY RESIN CABLE JOINTING KIT.
- ALL CONDUIT JOINTS TO BE PRIMED PRIOR TO GLUING TOGETHER.

CIRCUIT LOADING

- ALL LIGHTING CIRCUITS ARE TO BE CONFIGURED FOR A MAXIMUM LOAD OF 75% OF CIRCUIT BREAKER RATING, BASED ON TOTAL LUMINAIRE SYSTEM POWER.
- POWER OUTLETS AND ISOLATORS RATED ABOVE 10A ARE TO BE PROVIDED WITH DEDICATED CIRCUIT.
- ALL OTHER POWER CIRCUITS ARE TO BE CONFIGURED FOR A MAXIMUM LOAD OF 75% OF CIRCUIT BREAKER RATING, BASED ON OUTLET CONTRIBUTIONS IN ACCORDANCE WITH AS 3000 TABLE C9 'GUIDANCE ON THE LOADING OF POINTS PER FINAL SUBCIRCUIT'.
- POWER CIRCUITS ARE TO BE LOGICALLY ARRANGED AND NOT SUPPLY OUTLETS LOCATED IN MORE THAN THREE ADJACENT ROOMS.
- DEDICATED CIRCUITS ARE TO BE PROVIDED TO ALL CIRCUITED OUTLETS SHOWN ON DRAWINGS.

CABLE WAYS

- SEPARATE COMMUNICATIONS CABLING FROM LV POWER CABLING BY MINIMUM OF 50mm UNLESS OTHERWISE NOTED, EXCEPT WHERE ENCLOSED IN METAL DUCT OR METAL CONDUIT (IN COMPLIANCE WITH AS/NZS 3000 REQUIREMENTS).

- SEPARATE POWER CABLING FROM HOT WATER PIPEWORK BY MINIMUM OF 100mm UNLESS OTHERWISE NOTED (IN COMPLIANCE WITH AS/NZS 3500 REQUIREMENTS).

- SEPARATE COMMUNICATIONS CABLING FROM GAS, AIR, OIL AND HOT WATER PIPEWORK BY MINIMUM OF 150mm UNLESS OTHERWISE NOTED, EXCEPT AT CROSSINGS WHERE SEPARATED BY A SUITABLE BARRIER (IN COMPLIANCE WITH AS/CA 5009 REQUIREMENTS).

- SEPARATE COMMUNICATIONS CABLING FROM WATER PIPEWORK BY MINIMUM OF 50mm UNLESS OTHERWISE NOTED, EXCEPT WHERE ENCLOSED IN CONDUIT (IN COMPLIANCE WITH AS/CA 5009 REQUIREMENTS).

- SEPARATE COMMUNICATIONS CABLING FROM HV POWER CABLING BY MINIMUM OF 450mm UNLESS OTHERWISE NOTED (IN COMPLIANCE WITH AS/CA 5009 REQUIREMENTS).

- UNDERGROUND SERVICES TO BE SEPARATED IN ACCORDANCE WITH AS/NZS 3000 AND AS/CA 5009 REQUIREMENTS, UNLESS GREATER DISTANCE NOTED.

LIGHTING

- MOUNT ALL LIGHT SWITCHES AT 1000mm AFFL TO CENTRE UNLESS OTHERWISE NOTED.
- MULTIPLE LIGHT SWITCHES TO BE ALIGNED WITH 25mm SPACING FROM EACH OTHER.
- INSTALL COMBINED RCD/CIRCUIT BREAKER FOR ALL LIGHTING SUBCIRCUITS, UNLESS OTHERWISE NOTED.
- DISPOSE OF ALL REDUNDANT FLUORESCENT LUMINAIRES, INCLUDE ALLOWANCE FOR DISPOSAL OF POLYCHLORINATED BIPHENYL (PCB) AND CONFIRM ON SITE.
- SEISMIC RESTRAINTS - SUSPENSION CABLES AND ASSOCIATED ANCHORS FOR SUSPENDED LUMINAIRES AND THE LIKE ARE TO BE RATED TO SUPPORT TWO TIMES THE TOTAL WEIGHT. SUSPENSION CABLES ARE TO BE ANCHORED/ATTACHED TO THE STRUCTURE, NOT THE CEILING.

POWER

- WHERE OUTLET HEIGHTS NOT INDICATED, REFER TO ARCHITECTURAL ELEVATION DRAWINGS OR REQUEST CONFIRMATION OF HEIGHTS IN WRITING.
- MOUNT OUTLETS LOCATED NEAR SINKS AND TUBS, OUTSIDE THE "DAMP AREAS RESTRICTED ZONE" AS REQUIRED BY AS/NZS 3000.

- INSTALL COMBINED RCD/CIRCUIT BREAKERS FOR ALL OUTLETS, UNLESS OTHERWISE NOTED.
- ALL CIRCUITS TO BE RCD PROTECTED UNLESS:
 - IT IS A LPD CIRCUIT REQUIRED UNDER AS/NZS3003 WITH REMOTE LPD 10MA PROTECTION
 - EXEMPTIONS LISTED WITHIN AS/NZS3000 2.6.3.2.3.3"

- WHERE AN OUTLET / CIRCUIT CORRESPONDS TO A SPECIFIC ITEM OF EQUIPMENT, THE OUTLET LOCATION TO BE CO-ORDINATED ON SITE WITH THE RESPECTIVE EQUIPMENT.

- ALL IN-SLAB REINFORCING IN WET WET AREAS TO BE EARTH BONDED TO AS3000.

FIRE AND SMOKE WALLS

- ALLOW TO FIRE SEAL/STOP ALL PENETRATIONS THROUGH FIRE AND SMOKE WALLS USING APPROVED METHODS AND MATERIALS TO AUSTRALIAN STANDARDS.

DOOR HARDWARE

- REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE FOR ELECTRONIC DOOR HARDWARE.

DESIGN AND CONSTRUCT

wiltshire swain

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08 7324 2812 | architects@wiltshireswain.com.au

bca engineers

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ACHA CSSD - WASTE BUILDING EARLY WORKS
17 ALEXANDER AVENUE
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ELECTRICAL SERVICES

TENDER

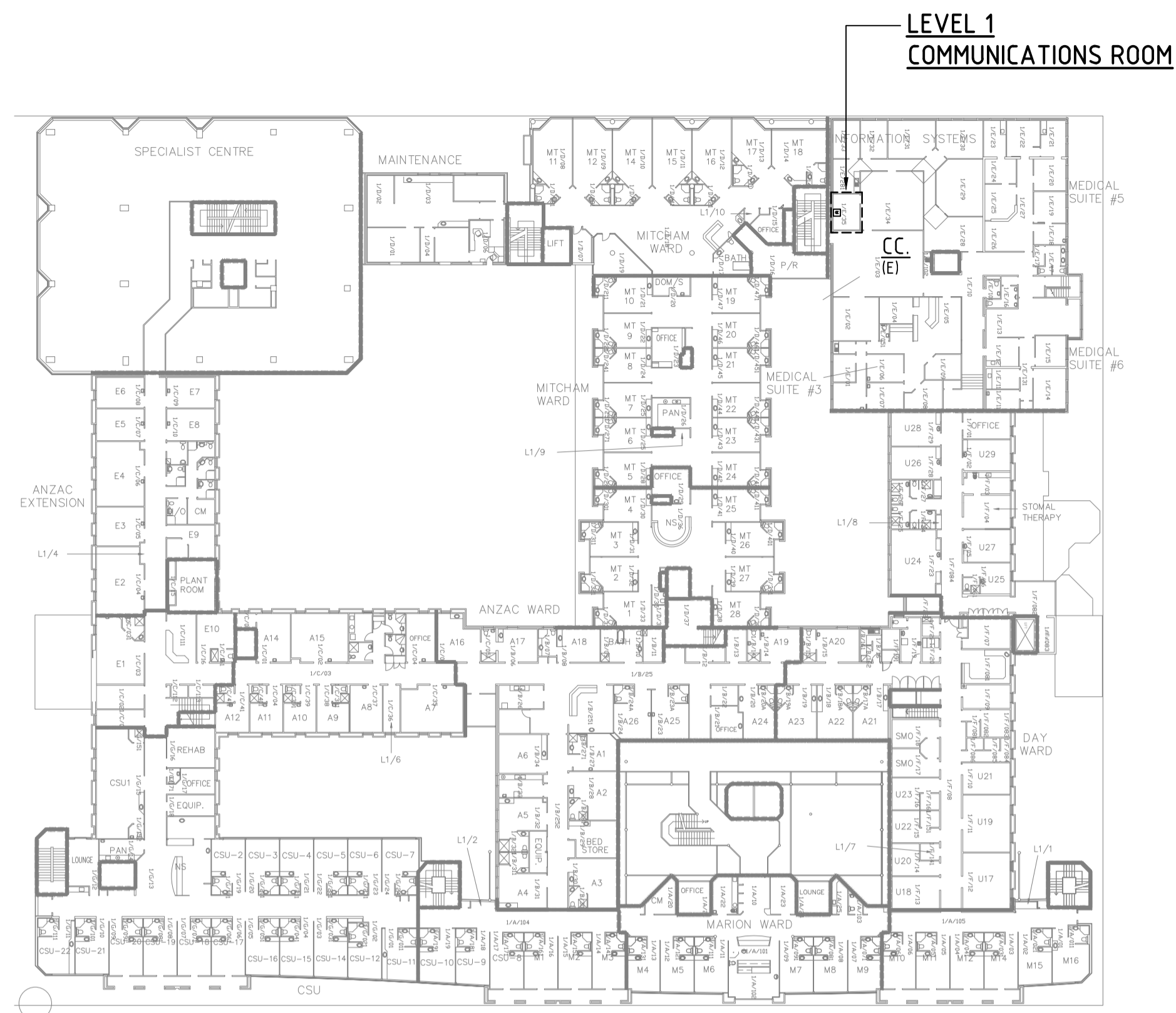
COVER SHEET, DRAWING INDEX, LOCATION PLAN & LEGEND OF SYMBOLS

Drawing No.	Revision	Scale @ A1	Drawn
6629.4-E100	T2	N/A	MAM
			Approved
			ARC

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Use figured dimensions in preference to scales. All dimensions to be verified and checked on the job.
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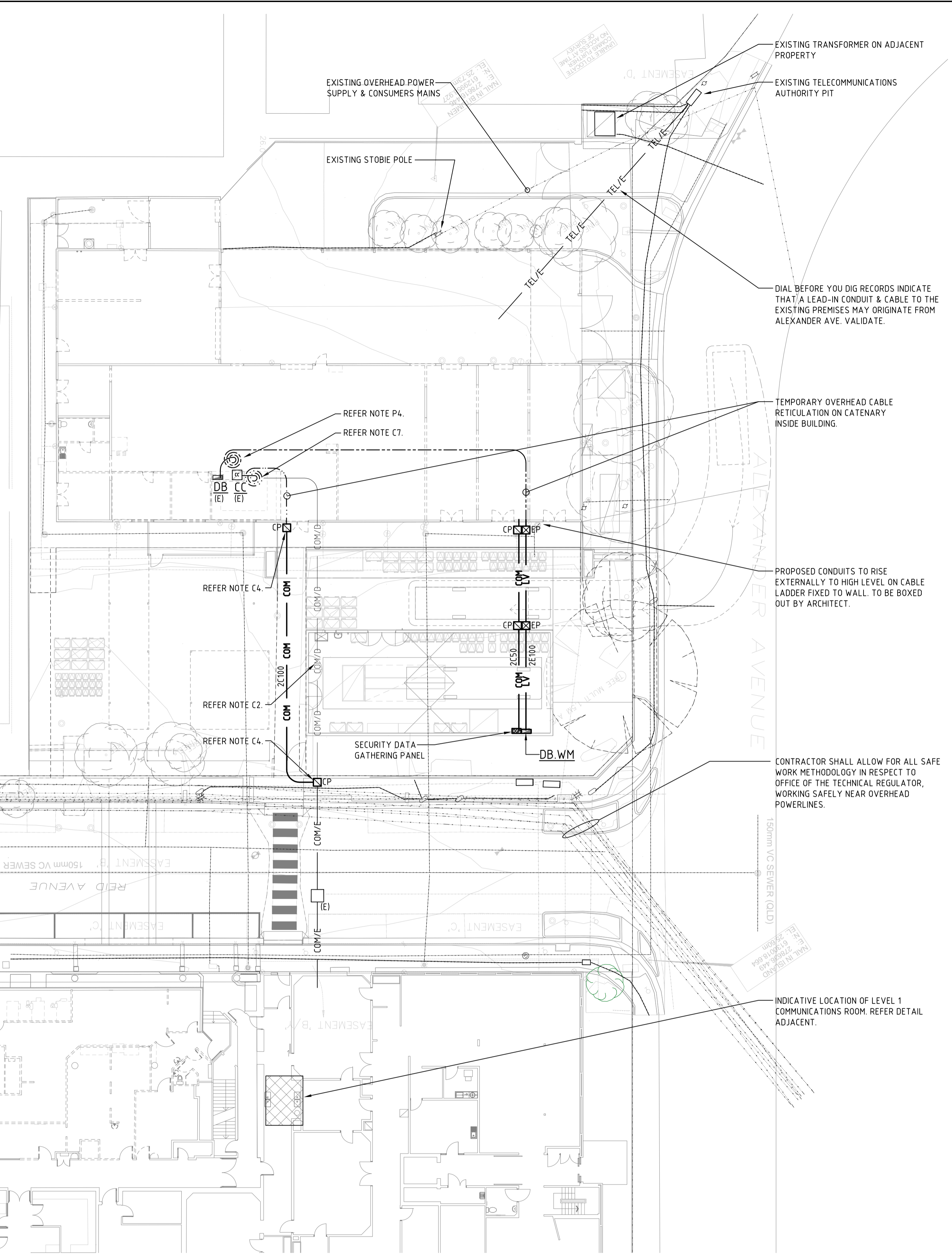
100mm AT FULL SIZE

Rev	Date	Amendment Description	By	Chk
T2	04.06.21	FINAL DESIGN CRITERIA ISSUE	MAM	ARC
T1	18.03.21	TENDER ISSUE	MAM	ARC



LEVEL 1 FLOOR PLAN
SCALE 1500 AT A1

- NOTES:**
- COMMUNICATIONS**
- C1. EXISTING TELECOMMUNICATIONS INFRASTRUCTURE ORIGINATING FROM MAIN ASHFORD HOSPITAL SERVER ROOM CABINET 1A LEVEL 1 VIA RISER DOWN TO BASEMENT VIA UNDERGROUND CONDUIT INTO STORMWATER SUMP/PIT AND THROUGH TO EXISTING ACHA STORES BUILDING CC
 - C2. PULL BACK ALL EXISTING TELECOMMUNICATIONS INFRASTRUCTURE
 - C3. DEMOLISH AND REMOVE FROM SITE EXISTING 100 PAIR CAT 3 COPPER BACKBONE IN ENTIRETY ORIGINATING FROM MAIN ASHFORD HOSPITAL SERVER ROOM CABINET 1A LEVEL 1
 - C4. PROVIDE AND INSTALL NEW TELECOMMUNICATIONS PITS AT BOUNDARY AND BUILDINGS FOOTINGS PERIMETERS.
 - C5. MODIFY, JUNCTION/ SPLICE, AND EXTEND EXISTING FIBRE OPTICAL CABLE INTO NEW ACHA CSSD TELECOMMUNICATIONS.
 - C6. PROVIDE & INSTALL NEW & PERMANENT UNDERGROUND TELECOMMUNICATIONS PITS & CONDUIT NETWORK AS FAR AS POSSIBLE WITHIN EXTENT OF NEW WASTE MANAGEMENT BUILDING AREA WORKS.
 - C7. ALLOW AN ADDITIONAL 20METRES OF COMMUNICATIONS CABLING COILED ABOVE EXISTING CC PRIOR TO CONNECTION TO ALLOW FOR RETICULATION/RECONNECTION TO CC LOCATION.
- POWER**
- P1. CONTRACTOR SHALL ALLOW FOR TEMPORARY POWER SUPPLY SUBMAIN ORIGINATING FROM EXISTING ACHA STORES BUILDING MAIN DISTRIBUTION BOARD TO SERVE NEW WASTE MANAGEMENT BUILDING.
 - P2. TEMPORARY SUBMAIN SHALL BE RETICULATED INTO NEW & PERMANENT UNDERGROUND ELECTRICAL PITS & CONDUITS NETWORK AS FAR AS POSSIBLE WITHIN EXTENT OF NEW WASTE MANAGEMENT BUILDING AREA WORKS.
 - P3. SEEK SUPERINTENDENT CONFIRMATION & APPROVALS IN RESPECT TO DEPTHS OF COVER/FINISHED LEVELS OF FUTURE SITE AREA/SURROUND & LANDSCAPE ETC, TO ENSURE MINIMUM DEPTH OF COVER ARE MAINTAINED & CO-ORDINATED WITH FUTURE WORKS.
 - P4. ALLOW AN ADDITIONAL 20METRES OF SUBMANS CABLING COILED ABOVE EXISTING DB PRIOR TO CONNECTION TO ALLOW FOR RETICULATION/RECONNECTION TO FUTURE DB.



DESIGN AND CONSTRUCT

ACHA CSSD - WASTE BUILDING EARLY WORKS
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100mm AT FULL SIZE

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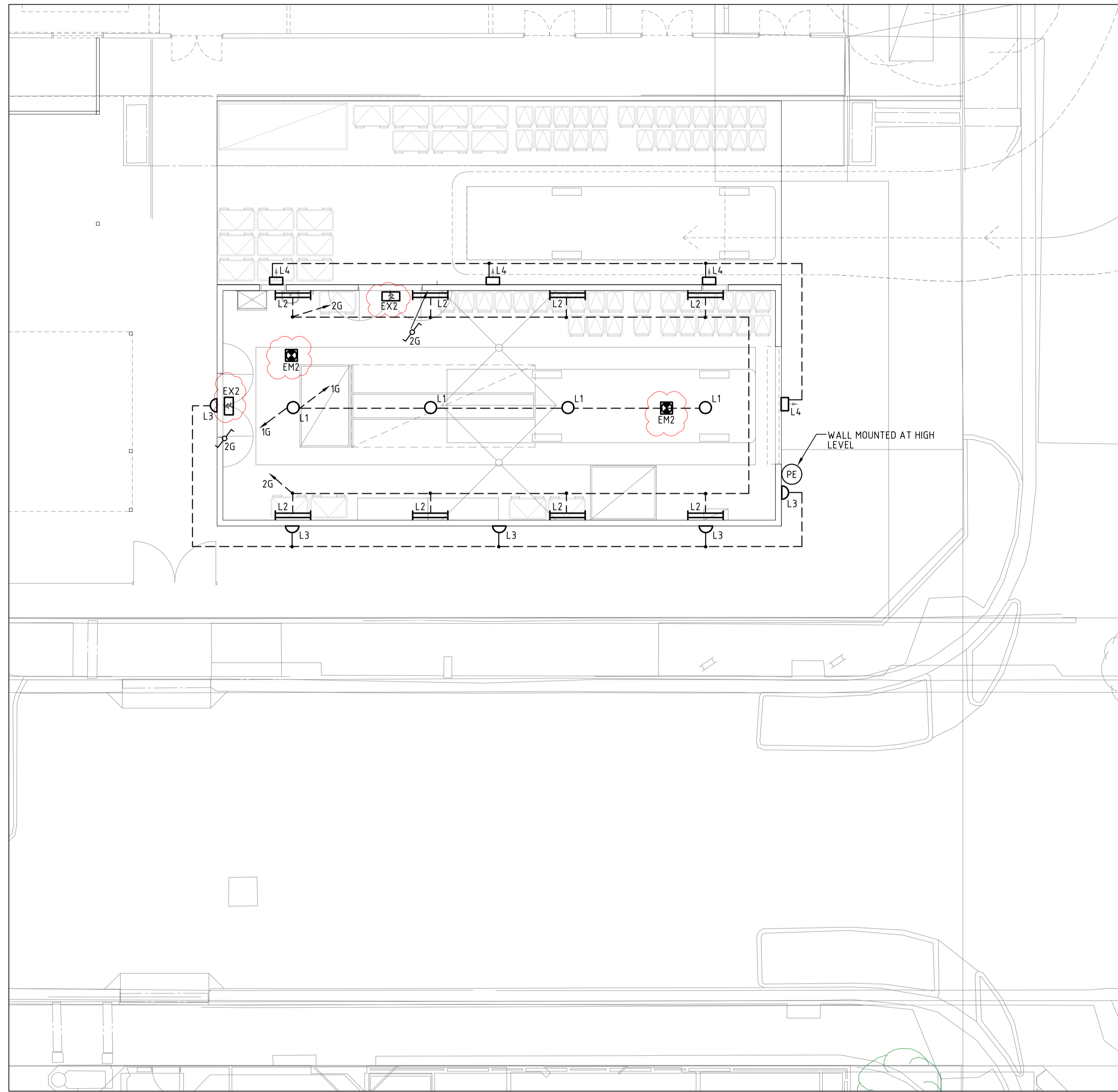
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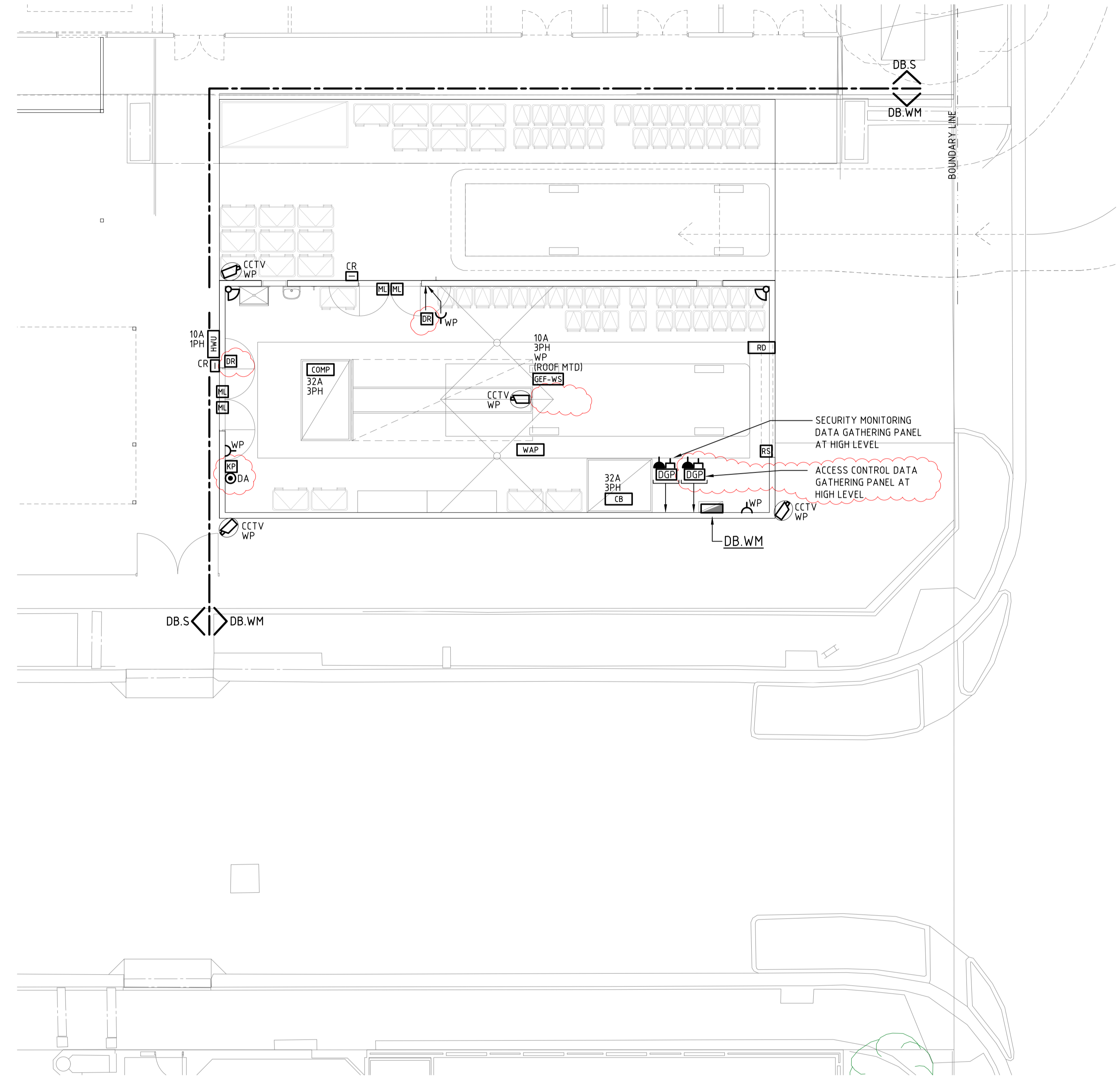
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ELECTRICAL SERVICES		TENDER	
SITE PLAN, EXISTING/DEMOLITION & PROPOSED ARRANGEMENT			
Drawing No.	Revision	Scale @ A1	Drawn
6629.4-E200	T3	1:200	MAM
			Approved
			ARC



LUMINAIRE ARRANGEMENT
SCALE 1:100 AT A1



POWER & COMMUNICATIONS ARRANGEMENT
SCALE 1:100 AT A1

DESIGN AND CONSTRUCT

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ELECTRICAL SERVICES
PROPOSED POWER, COMMUNICATIONS & LUMINAIRE ARRANGEMENT

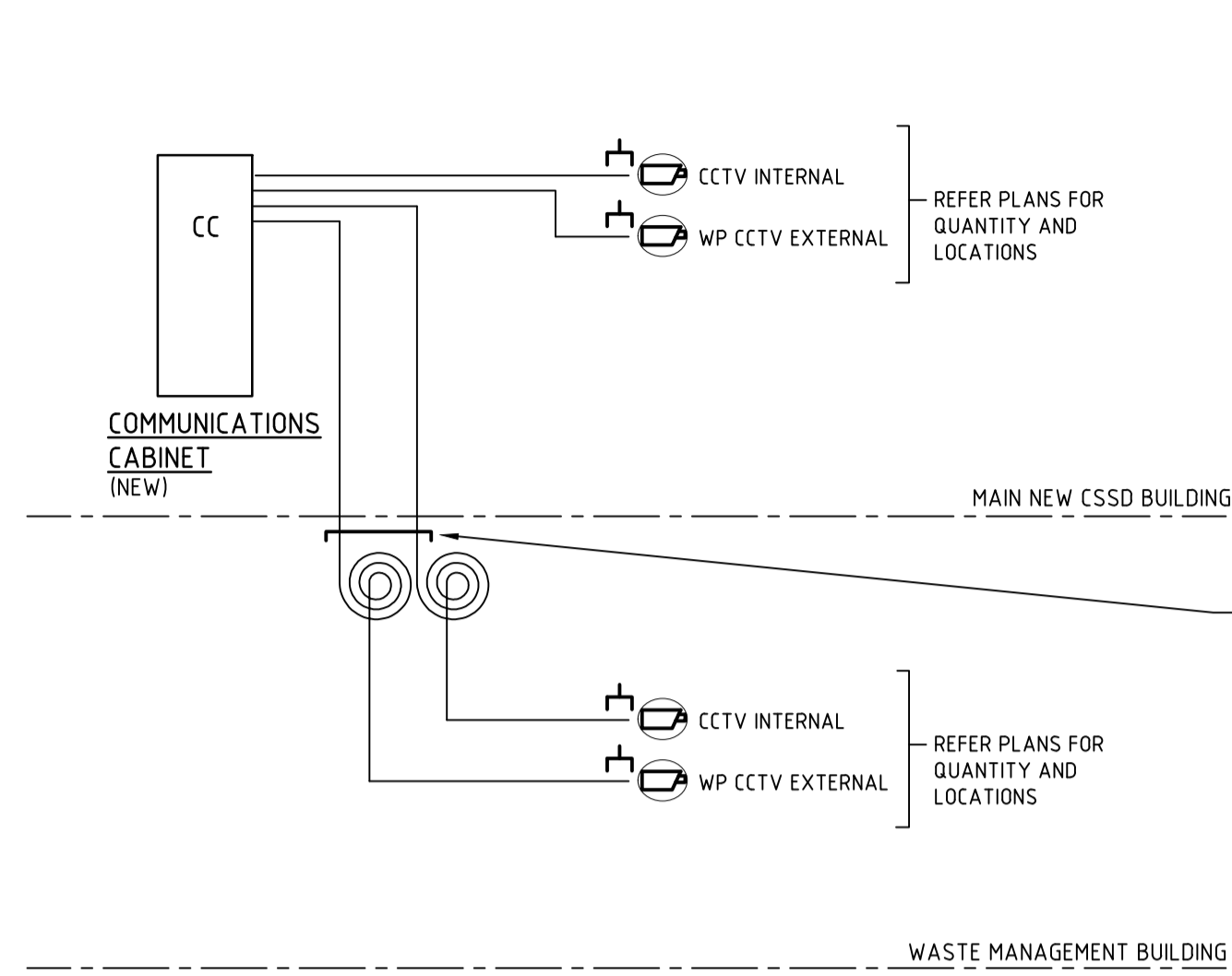
TENDER

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T2	04.06.21	FINAL DESIGN CRITERIA ISSUE	MAM	ARC
T1	18.03.21	TENDER ISSUE	MAM	ARC

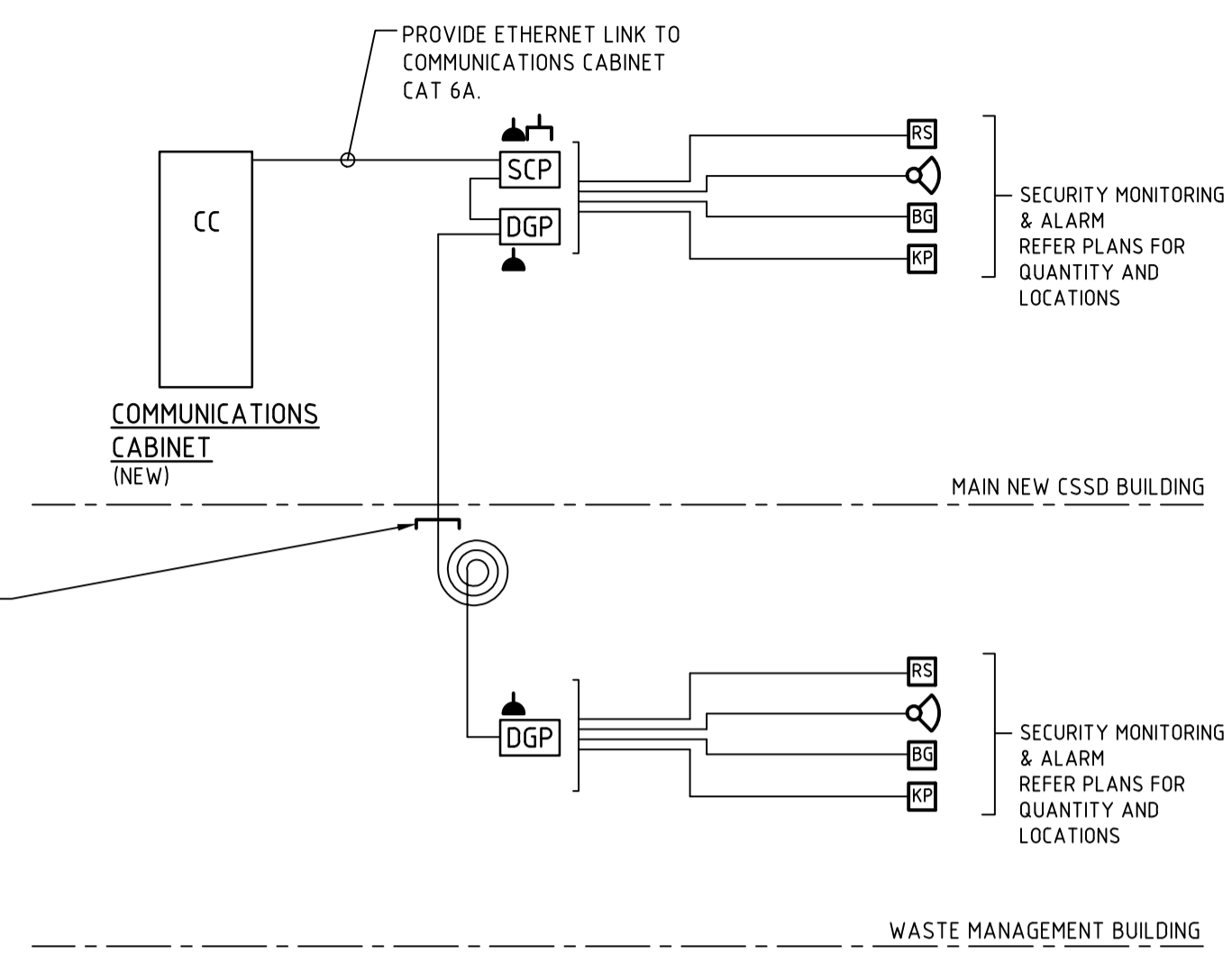
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Drawing No. 6629.4-E201	Revision T2	Scale @ A1 1:100	Drawn MAM
			Approved ARC

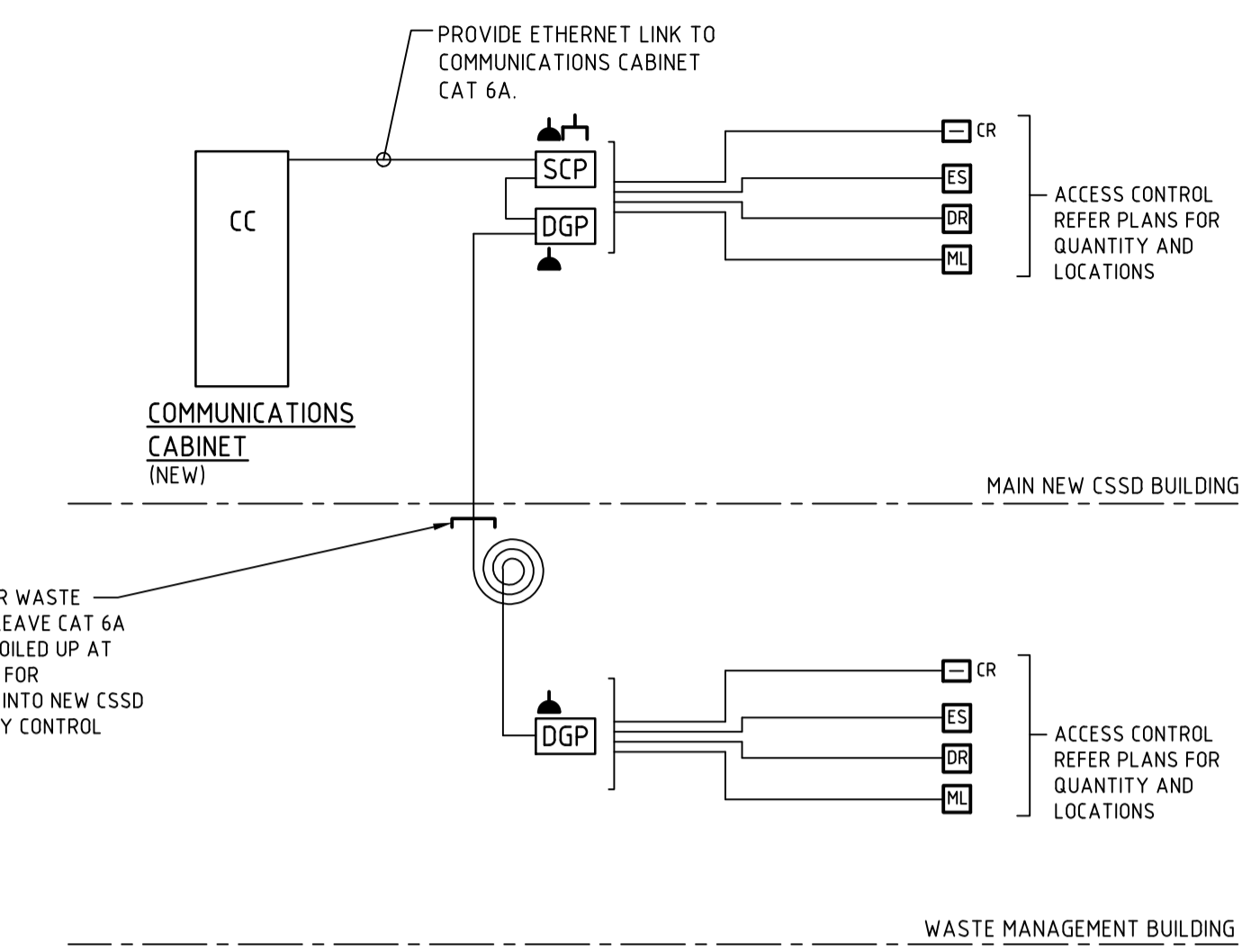
100mm AT FULL SIZE



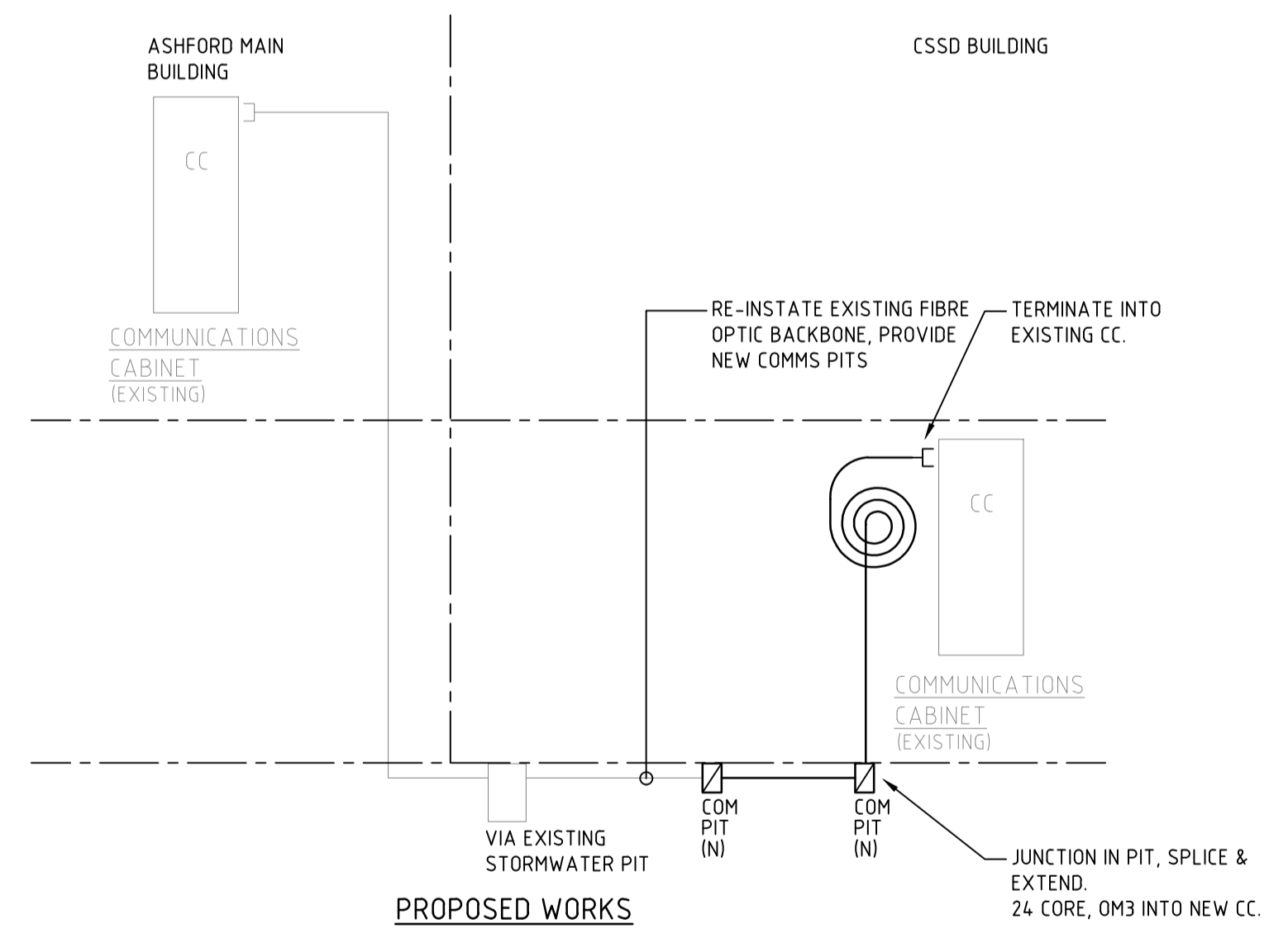
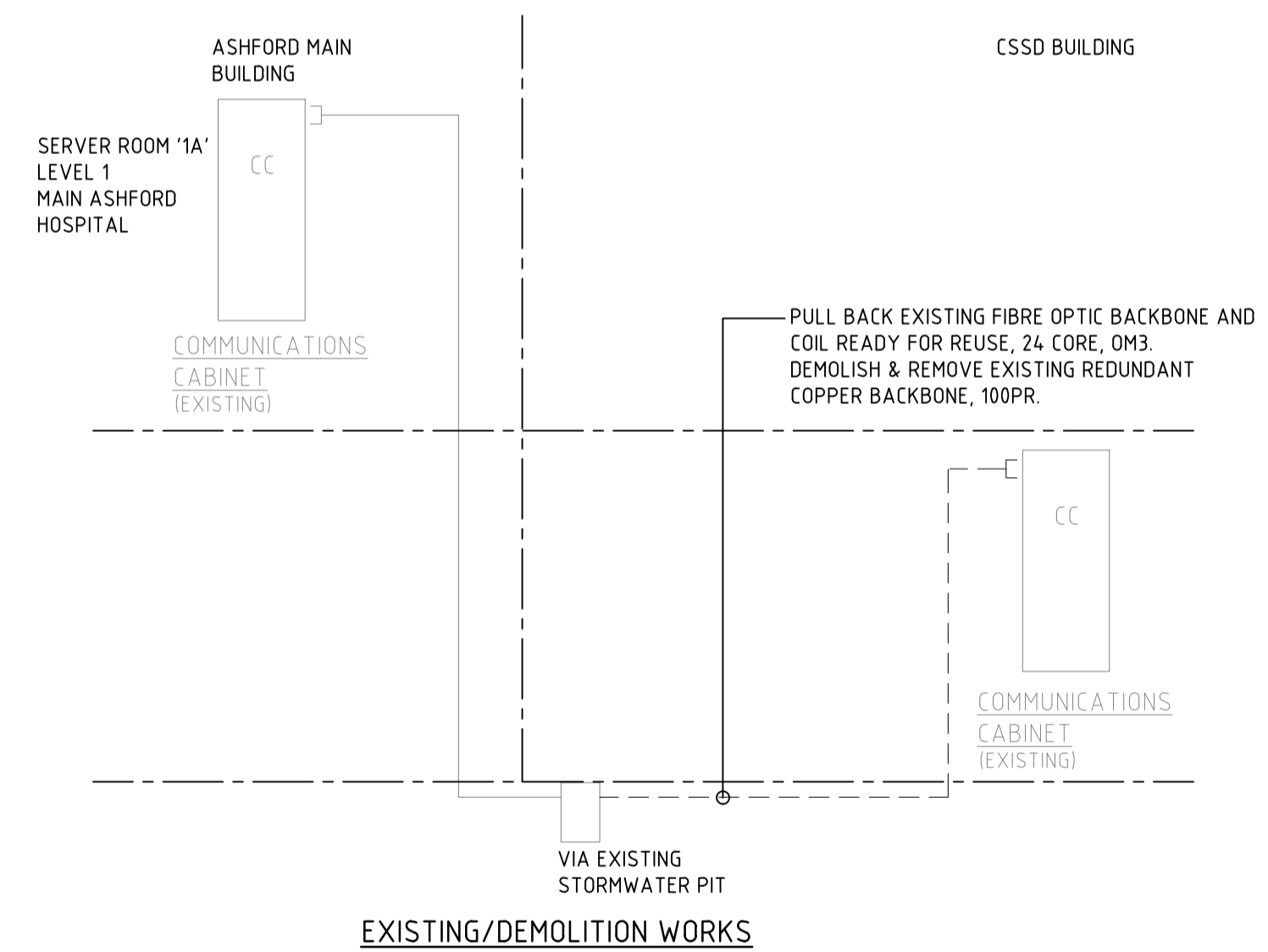
CCTV SCHEMATIC DIAGRAM
 1. CONTRACTOR SHALL PROVIDE & INSTALL ETHERNET CAT 6A CABLING & RJ45 TO CCTV LOCATIONS.
 2. ACHA ICT SHALL PROVIDE & INSTALL CCTV CAMERA DEVICES & ACTIVE DVR/HARDWARE.



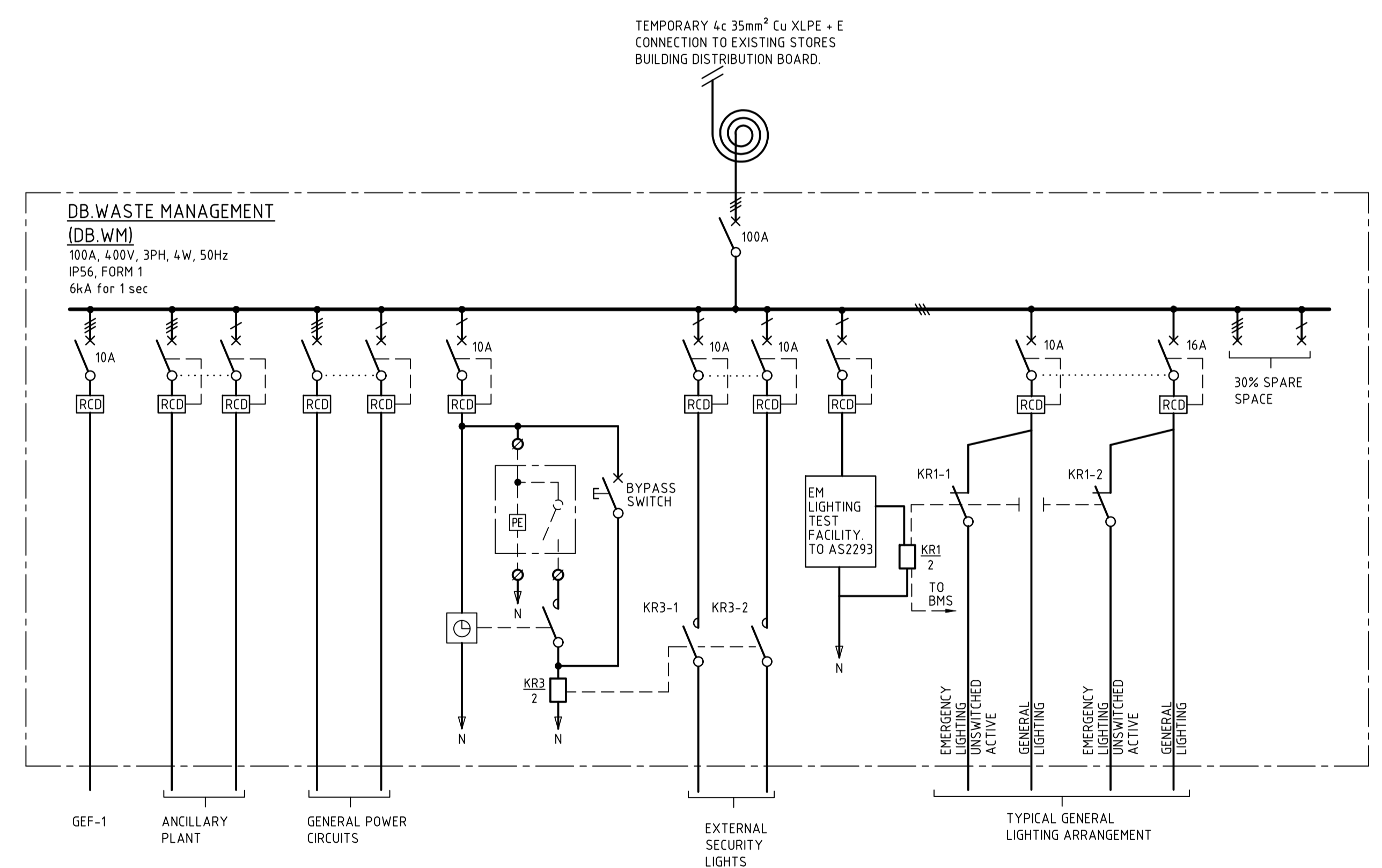
SECURITY MONITORING ALARM SCHEMATIC DIAGRAM



ACCESS CONTROL SCHEMATIC DIAGRAM



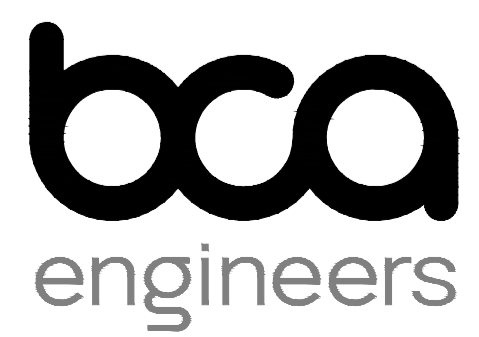
COMMUNICATIONS SCHEMATIC DIAGRAM



ELECTRICAL SINGLE LINE DIAGRAM

LEGEND OF SINGLE LINE DIAGRAM LINETYPES
 - ITEMS SHOWN LIGHTLY DENOTES EXISTING TO REMAIN.
 - - - ITEMS SHOWN DASHED DENOTES EXISTING TO BE DISCONNECTED AND REMOVED.
 - - - ITEMS SHOWN DARK (HEAVY) DENOTE NEW WORKS.

DESIGN AND CONSTRUCT



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ELECTRICAL SERVICES TENDER
 ELECTRICAL SINGLE LINE DIAGRAM, COMMUNICATIONS & SECURITY SCHEMATIC DIAGRAMS

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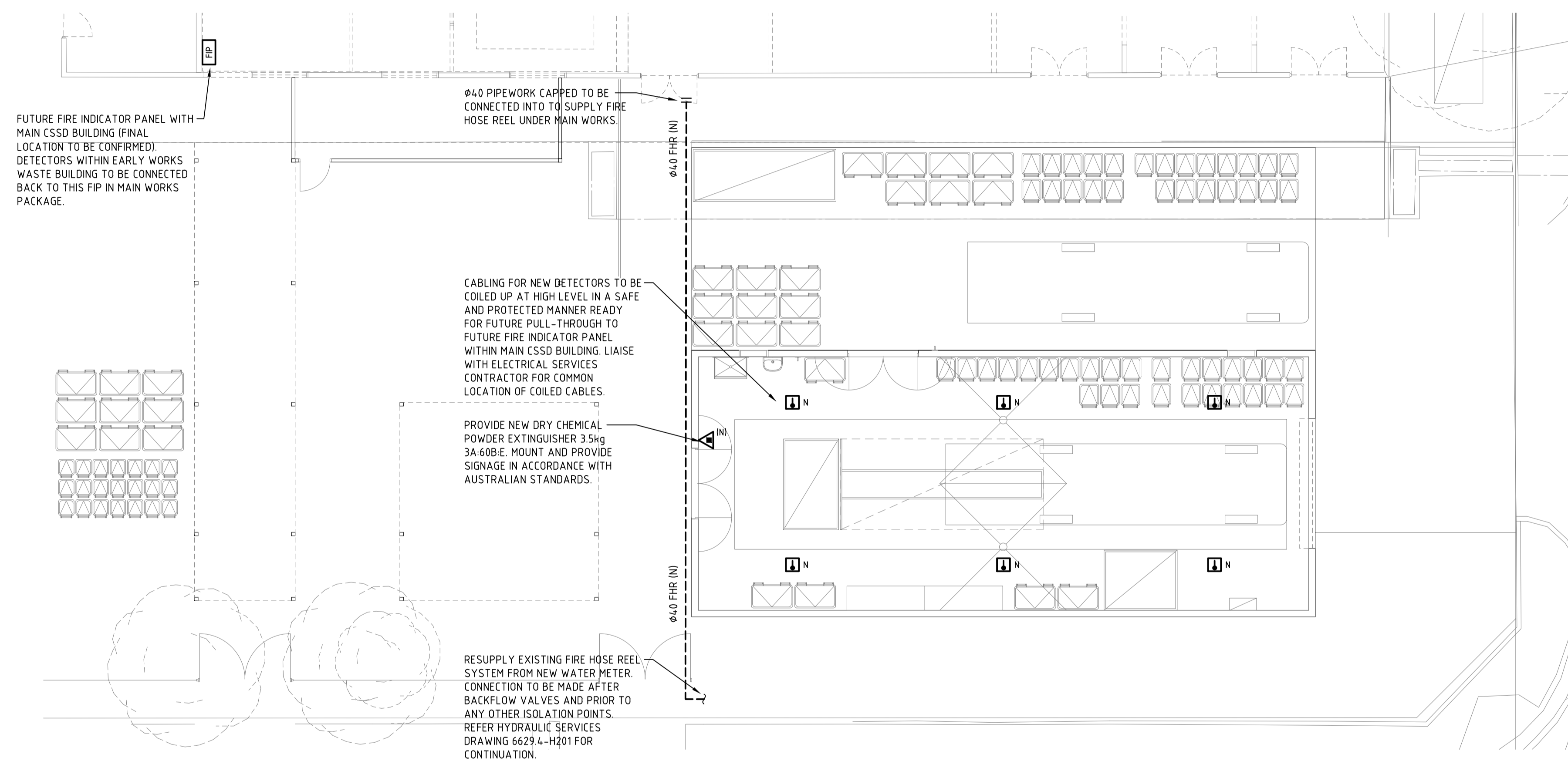
Drawing No. 6629.4-E500	Revision T2	Scale @ A1 1:100	Drawn MAM
	Approved ARC		

ACHA NEW CSSD WASTE BUILDING EARLY WORKS

FIRE PROTECTION SERVICES

DRAWING INDEX

6629.4-F200 DRAWING INDEX, LOCATION PLAN, WASTE BUILDING PART PLAN & LEGEND OF SYMBOLS



WASTE BUILDING PART PLAN
SCALE 1:100 @ A1

LEGEND OF SYMBOLS

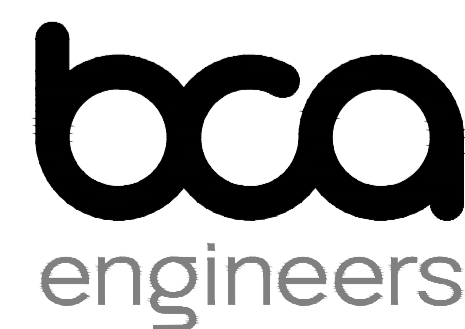
- GENERAL NOTATION
- (D) DENOTES DELETE/REMOVE
 - (E) DENOTE EXISTING TO REMAIN
 - (N) DENOTES NEW
 - (R) DENOTES RELOCATE TO NEW LOCATION
 - (RE) EXISTING ITEM TO BE REMOVED FOR RELOCATION
- DOUBLE HEADED FIRE HYDRANT WITH BOLLARDS
 - WATER EXTINGUISHER
 - CO2 EXTINGUISHER
 - DRY CHEMICAL POWDER EXTINGUISHER
 - FIRE BLANKET
 - FIRE HOSE REEL
 - SMOKE DETECTOR
 - THERMAL DETECTOR

DESIGN AND CONSTRUCT

ACHA CSSD - WASTE BUILDING EARLY WORKS
17 ALEXANDER AVENUE
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FIRE PROTECTION SERVICES TENDER
DRAWING INDEX, LOCATION PLAN, WASTE BUILDING PART PLAN & LEGEND OF SYMBOLS

Rev	Date	Amendment Description	By	Chk
T2	04.06.21	FINAL DESIGN CRITERIA ISSUE	RJS	ACM
T1	18.03.21	TENDER ISSUE	RJS	ACM



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Drawing No.	Revision	Scale @ A1	Drawn	Approved
6629.4-F200	T2	1:100	RJS	ACM

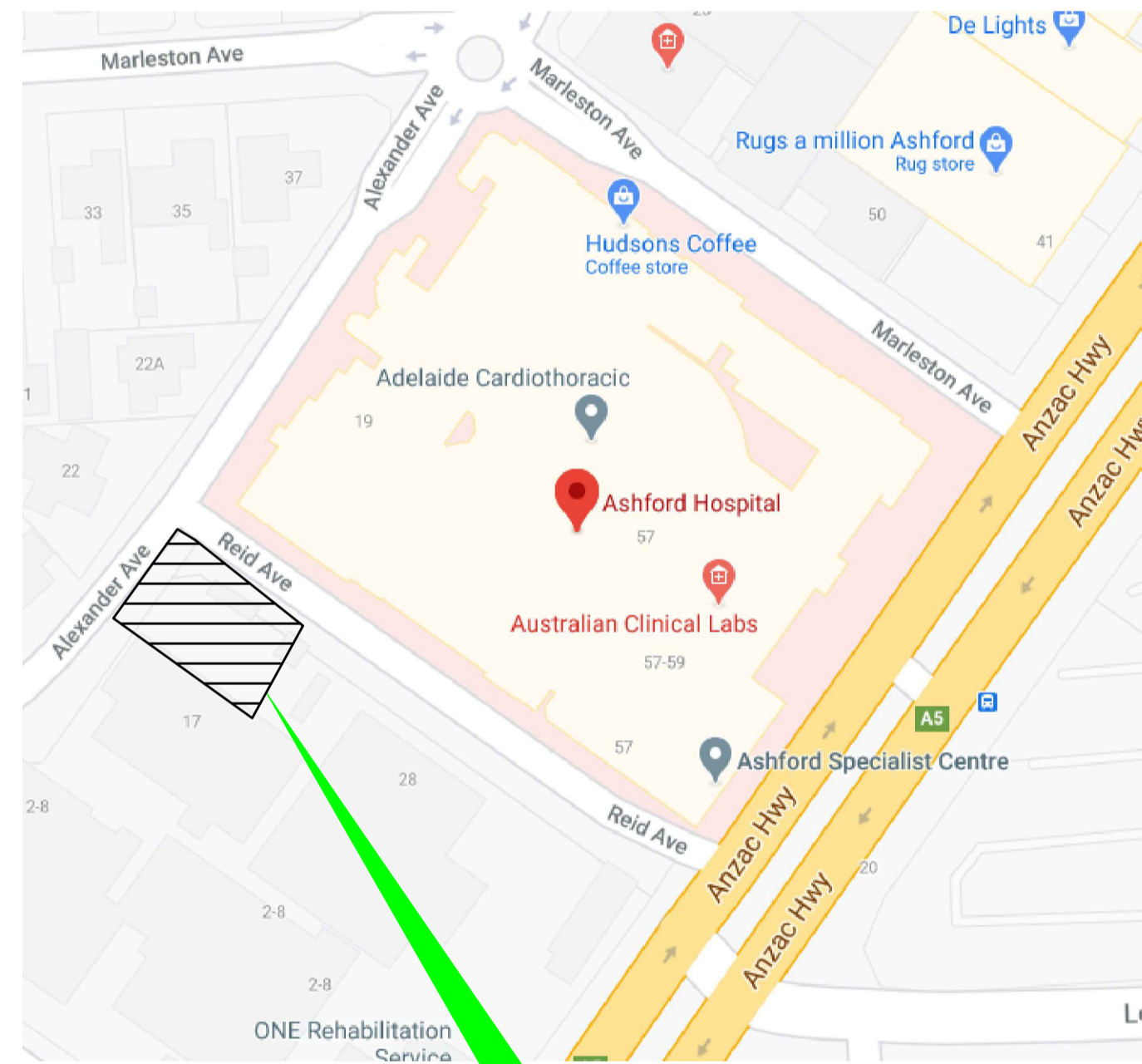
100mm AT FULL SIZE

ACHA NEW CSSD WASTE BUILDING EARLY WORKS

HYDRAULIC SERVICES

DRAWING INDEX

6629.4-H100	COVER SHEET, DRAWING INDEX, LOCATION PLAN, GENERAL NOTES & LEGEND OF SYMBOLS
6629.4-H200	SITE PLAN: EXISTING / DEMOLITION HYDRAULIC ARRANGEMENT
6629.4-H201	SITE PLAN: PROPOSED HYDRAULIC ARRANGEMENT



SITE OF WORKS

GENERAL NOTES

- THE SCOPE OF WORKS COMPRISES OF THE DEMOLITION, SUPPLY, INSTALLATION, TESTING, COMMISSIONING, MAINTENANCE & DEFECTS LIABILITY, PROVISION OF MATERIALS, LABOUR AND EQUIPMENT FOR THE COMPLETE HYDRAULIC SERVICES WORKS AS SHOWN ON THE PROJECT DRAWINGS AND AS FOLLOWS:
- THE WHOLE OF THE PLUMBING SANITARY DRAINAGE, TRADE WASTE, COLD, HOT & WARM WATER RETICULATION SHALL BE CARRIED OUT BY A FULLY REGISTERED PLUMBING CONTRACTOR, IN STRICT ACCORDANCE WITH THE REGULATIONS AND DIRECTIONS OF THE LOCAL WATER AUTHORITY & COMPLIANCE WITH THE APPLICABLE AUSTRALIAN STANDARDS & CODES, NOTABLY AS/NZS 3500.
- PAY ALL ASSOCIATED FEES, GIVE NOTICES AND MAKE ALL APPLICATIONS FOR THE PROVISION OF THESE WORKS.
- PRIOR TO THE COMMENCEMENT OF WORKS, LOCATE ALL EXISTING SERVICES & ENSURE THE PROPOSED LAYOUT DOES NOT CONFLICT. ENSURE THE CONTINUITY OF ALL EXISTING CONNECTIONS UNDER THE PROPOSED LAYOUT.
- THE TENDERER SHALL ATTEND SITE TO FAMILIARISE THEMSELVES WITH SITE FEATURES, NO VARIATIONS WILL BE CONSIDERED BY NEGLIGENCE OF THIS REQUIREMENT.
- ARRANGE TO SHUT DOWN THE EXISTING SERVICES AT A TIME IN CONSULTATION WITH THE PROJECT MANAGER AND HOSPITAL REPRESENTATIVE.
- ALL PIPEWORK TO BE INSTALLED TO MANUFACTURERS RECOMMENDATIONS AND SUITABLY LABELLED IN ACCORDANCE WITH AS1345.
- MATERIALS USED SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KINDS, MANUFACTURED IN ACCORDANCE WITH THE RELEVANT CURRENT AUSTRALIAN STANDARDS AND CODES. WHERE REQUIRED, MATERIALS, FITTINGS AND ACCESSORIES SHALL BE TESTED AND STAMPED WITH A RECOGNISED WATER MARK.
- SOIL AND WASTE PIPEWORK TO BE UPVC MATERIAL, COPPER WHERE EXPOSED, VENTILATION PIPEWORK SHALL BE DWV GRADE UPVC MATERIAL. ALL TRADE WASTE PIPEWORK SHALL BE HDPE MATERIAL.
- PROVISION OF POINT OF USE ISOLATION VALVES AT FIXTURES IN THE FORM OF CHROME PLATED MINI CISTERN COCKS.
- PROVIDE THERMAL INSULATION TO ALL EXPOSED COLD, HOT & WARM WATER PIPE WORK. PROVIDE THERMAL INSULATION TO ALL HOT WATER PIPE WORK.
- WATER SERVICES IN GROUND SHALL BE COPPER TYPE B OR MDPE (BLUE LINE) UNLESS OTHERWISE NOTED. COPPER TO BE DENSU WRAPPED WHEN INSTALLED BELOW GROUND. SUSPENDED WATER SERVICES SHALL BE COPPER TYPE B OR CROSS LINKED POLYETHYLENE (REHAU ONLY) UNLESS OTHERWISE NOTED. THE JOINTING METHOD FOR REHAU SHALL BE MECHANICAL COMPRESSION FITTING & SOLDER FOR COPPER. PIPEWORK IS TO BE CHROME PLATED WHERE EXPOSED.
- GAS SERVICES IN GROUND SHALL BE MDPE (TIGER LINE) OR COPPER (DENSU WRAPPED). SUSPENDED GAS SERVICES SHALL BE COPPER TYPE B OR REHAU (PEX).
- COMMISSIONING, TESTING AND 52 WEEK DEFECTS LIABILITY PERIOD.
- REMOVE ALL EXCAVATED SOIL FROM SITE.
- ALLOW FOR 3-OFF SOIL COMPACTION TESTS OF BACKFILLING OF TRENCHES
- MARK OUT AND OBTAIN APPROVAL FROM A STRUCTURAL ENGINEER PRIOR TO SAW CUTTING, CORING OR REMOVAL OF EXISTING SLAB OR OTHER STRUCTURAL ELEMENTS; MAKING GOOD BY BUILDER.
- PROVIDE FIRE STOPPING ACROSS FIRE RATED BUILDING ELEMENTS IN ACCORDANCE WITH THE BCA.
- PROVIDE 3 COPIES OF 'AS-INSTALLED' DRAWINGS IN PRINT AND AUTOCAD FORMAT, CERTIFICATES OF COMPLIANCE, TECHNICAL DATA, COMMISSIONING RESULTS, WARRANTIES AND OTHER APPROVALS FOR INCLUSION INTO THE 'HYDRAULIC SERVICES OPERATION AND MAINTENANCE MANUALS'. DRAWINGS TO BE IN AUTOCAD FORMAT, VERSION 2013 OR LATER. COMPLETION WILL NOT BE ACHIEVED UNTIL CERTIFICATES AND COMPLETE OPERATION AND MAINTENANCE MANUALS ARE RECEIVED AND APPROVED.
- PIPE BEDDING MATERIAL SHALL BE DS 4B SAND (OR SIMILAR APPROVED), FOR A MINIMUM DEPTH OF 100MM BENEATH THE BASE OF THE PIPE COLLARS. PIPE SURROUND MATERIAL SHALL BE DS 4B SAND (OR SIMILAR APPROVED), INSTALLED TO A MINIMUM DEPTH OF 150MM ABOVE THE CROWN OF THE PIPE. ALL TRENCHES BENEATH ALL BUILDINGS, PATHS, PAVED AREAS AND ROADWAYS SHALL BE BACKFILLED WITH PM21 (OR SIMILAR APPROVED) QUARRY RUBBLE COMPACTED TO 95% MDD. ALL TRENCHES BENEATH LAWN AREAS AND GARDEN AREAS SHALL BE BACKFILLED WITH APPROVED EXCAVATED MATERIAL COMPACTED TO 96% STANDARD.

PLUMBING RETICULATION LEGEND (AS APPLICABLE)

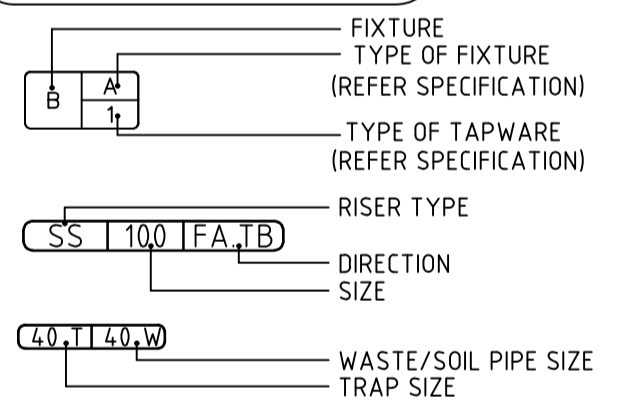
— EX — DCW —	COLD WATER (EXISTING)
— EX — DHW —	HOT WATER (EXISTING)
— EX — NG —	NATURAL GAS (EXISTING)
— EX — NDCW —	COLD WATER (EXISTING NON DRINKABLE)
— NDCW —	COLD WATER (NON DRINKABLE)
— DCW —	COLD WATER (DRINKABLE)
— DHW —	HOT WATER (DRINKABLE)
— DW —	WARM WATER (DRINKABLE)
— SW —	SOFTENED WATER
— NG —	NATURAL GAS
— RO —	REVERSE OSMOSIS
—	PIPEWORK CAPPED
—	PENETRATION
—	CHANGE SIZE
—	ISOLATING BALL VALVE
—	ISOLATING VALVE IN VALVE BOX C/W
—	BALANCING VALVE
—	WATER OUTLET POINT
—	RISER
—	DROPPER
—	THERMOSTATIC MIXING VALVE (TMV)
—	TEMPERING VALVE
—	SOLENOID VALVE
—	BACKFLOW PREVENTION VALVE
—	TRAP PRIMER
—	CIRCULATING PUMP
—	FILTER/STRAINER
—	PRESSURE TEMP RELIEF VALVE
—	SCREW NOSE BIBCOCK
—	GAS REGULATOR
—	GAS OUTLET SINGLE
—	GAS OUTLET DOUBLE
—	REFER TO NOTE OF SAME DESIGNATION.
—	WATER METER
—	GAS METER
—	PRESSURE LIMITING VALVE
—	PRESSURE GAUGE
—	CEILING ACCESS PANEL BY BUILDER NOMINALLY 300 x 300 - UNLESS NOTED OTHERWISE - EXPANSION ALLOWANCE BELOW GROUND (FLEXIBLE COUPLING)

PLUMBING DRAINAGE LEGEND (AS APPLICABLE)

— EX — SD —	SD (EXISTING)
— EX — TWD —	TWD (EXISTING)
— EX — TW —	TW (EXISTING)
— EX — CD —	CD (EXISTING)
— EX — SW —	SW (EXISTING)
— SD —	SD
— TWD —	TWD
— TW —	TW
— CD —	CD
— RM —	RM
— SW —	SW
—	PIPEWORK CAPPED
—	CHANGE SIZE
—	CHANGE MATERIAL
—	KNUCKLE JOINT
—	SET DOWN
—	CONTINUATION
—	PENETRATION
—	SEWER ACCESS GATE
—	INSPECTION OPENING SURFACED - INTERNAL
—	INSPECTION OPENING SURFACED - EXTERNAL
—	VERTICAL INSPECTION OPENING
—	GOVERNMENT INSPECTION POINT
—	WASTE DRAIN RISER
—	P-TRAP
—	EXTERNAL GULLY TRAP
—	FLOOR WASTE GULLY
—	OVERFLOW RELIEF GULLY
—	ROLL OVER FROM BELOW
—	SEALED FLOOR WASTE GULLY
—	SEALED DISCONNECTOR GULLY
—	MAN HOLE
—	REFLUX VALVE
—	SOIL DRAINAGE SHOP RISER
—	TRADE WASTE SHOP RISER
—	SILT/BUCKET TRAP
—	SOIL STACK
—	TUNDISH
—	IN-WALL S/S TUNDISH WITH WATERLESS TRAP
—	AIR ADMITTANCE VALVE
—	DIRECTION OF FLOW
—	SOAKAGE PIT
—	ROOF PENETRATION
—	FIRE STOPPED PENETRATION

PLUMBING ABBREVIATIONS (AS APPLICABLE)

A/C	AIR CONDITIONING
AFL	ABOVE FLOOR LEVEL
BV	BREATHER VENT
CO	CEILING OVER
CV	CHAMBER VENT
C/W	COMPLETE WITH
EXG	EXISTING
FFL	FINISHED FLOOR LEVEL
IL	INVERT LEVEL
PD	PUMPED DISCHARGE
(R)	REDUNDANT REMOVE FROM SITE
(S)	SEAL
SD	SOIL DRAIN
SS	SOIL STACK
S/S	STAINLESS STEEL
SU	SUSPENDED
SV	SOIL VENT
FA	FROM ABOVE
FB	FROM BELOW
TA	TO ABOVE
TB	TO BELOW
TWD	TRADE WASTE DRAIN
TWV	TRADE WASTE VENT
T&W	TRAP & WASTE
NG	NATURAL GAS
LPG	LIQUID PETROLEUM GAS
TDC	TESTABLE DOUBLE CHECK
DCV	DUAL CHECK VALVE
COS	CONFIRM ON SITE
RPZD	REDUCED PRESSURE ZONE DEVICE



DESIGN AND CONSTRUCT

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HYDRAULIC SERVICES TENDER
COVER SHEET, DRAWING INDEX, LOCATION PLAN, GENERAL NOTES & LEGEND OF SYMBOLS

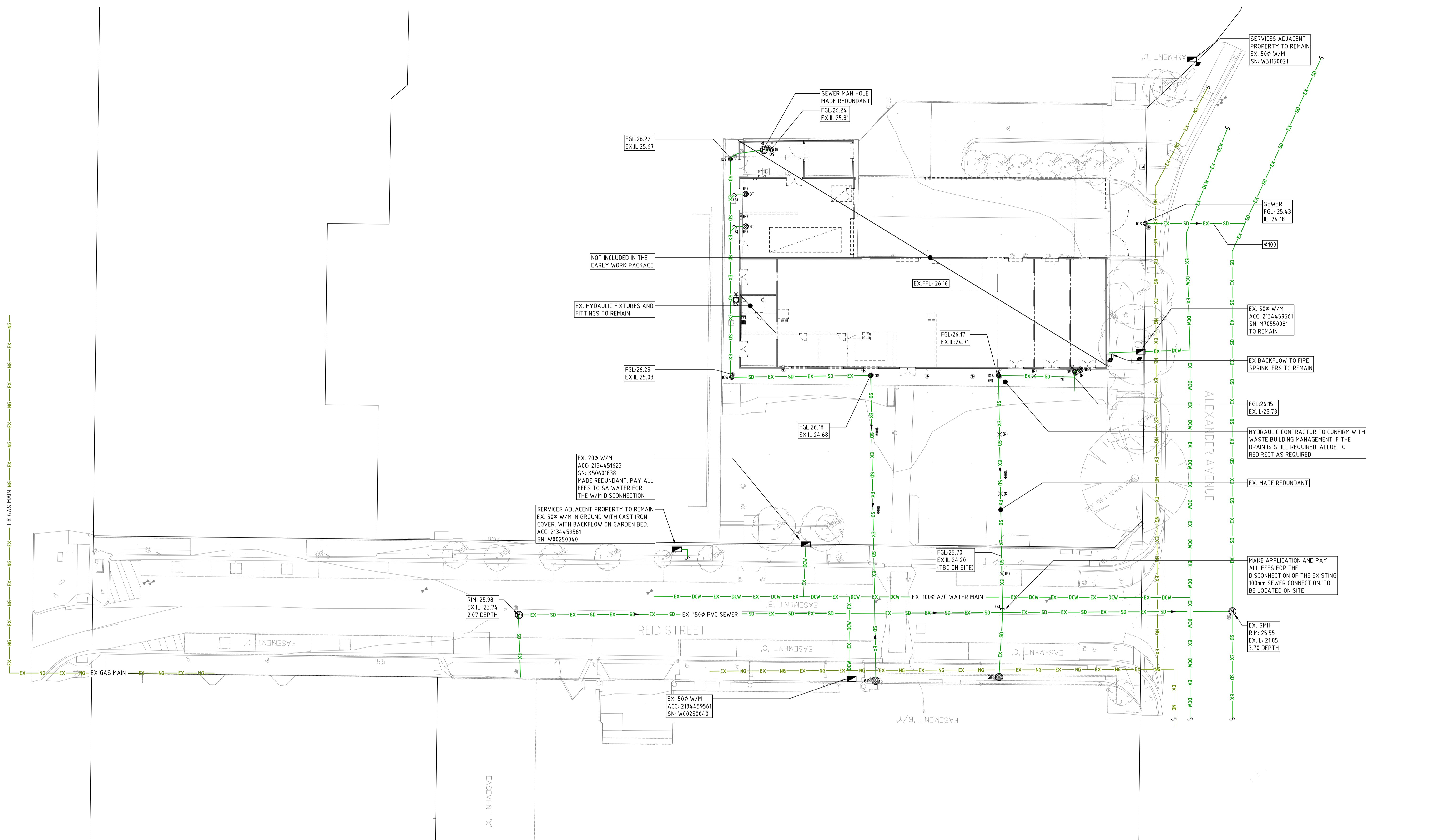
Rev	Date	Amendment Description	By	Chk
T2	04.06.21	FINAL DESIGN CRITERIA ISSUE	LMM	GLC
T1	18.03.21	TENDER ISSUE	LMM	GLC

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Drawing No.	Revision	Scale	Drawn	Approved
6629.4-H100	T2	@ A1 1:100	LMM	GLC

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SITE PLAN EXISTING / DEMOLITION HYDRAULIC ARRANGEMENT
SCALE : 1:200

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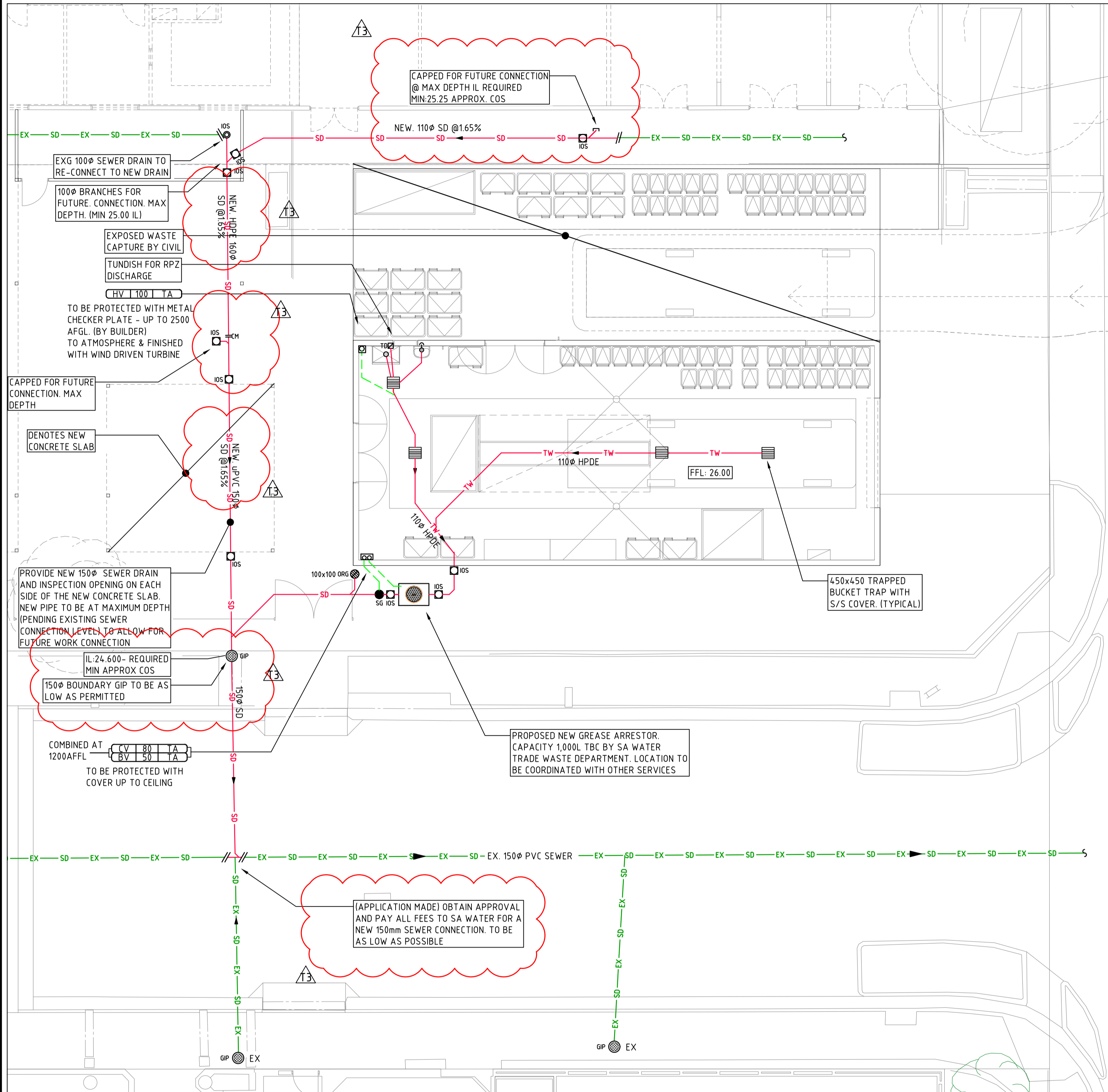
HYDRAULIC SERVICES
SITE PLAN EXISTING / DEMOLITION HYDRAULIC ARRANGEMENT

TENDER

Drawing No. 6629.4-H200	Revision T2	Scale @ A1 1:200	Drawn LMM	Approved GLC
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100mm AT FULL SIZE

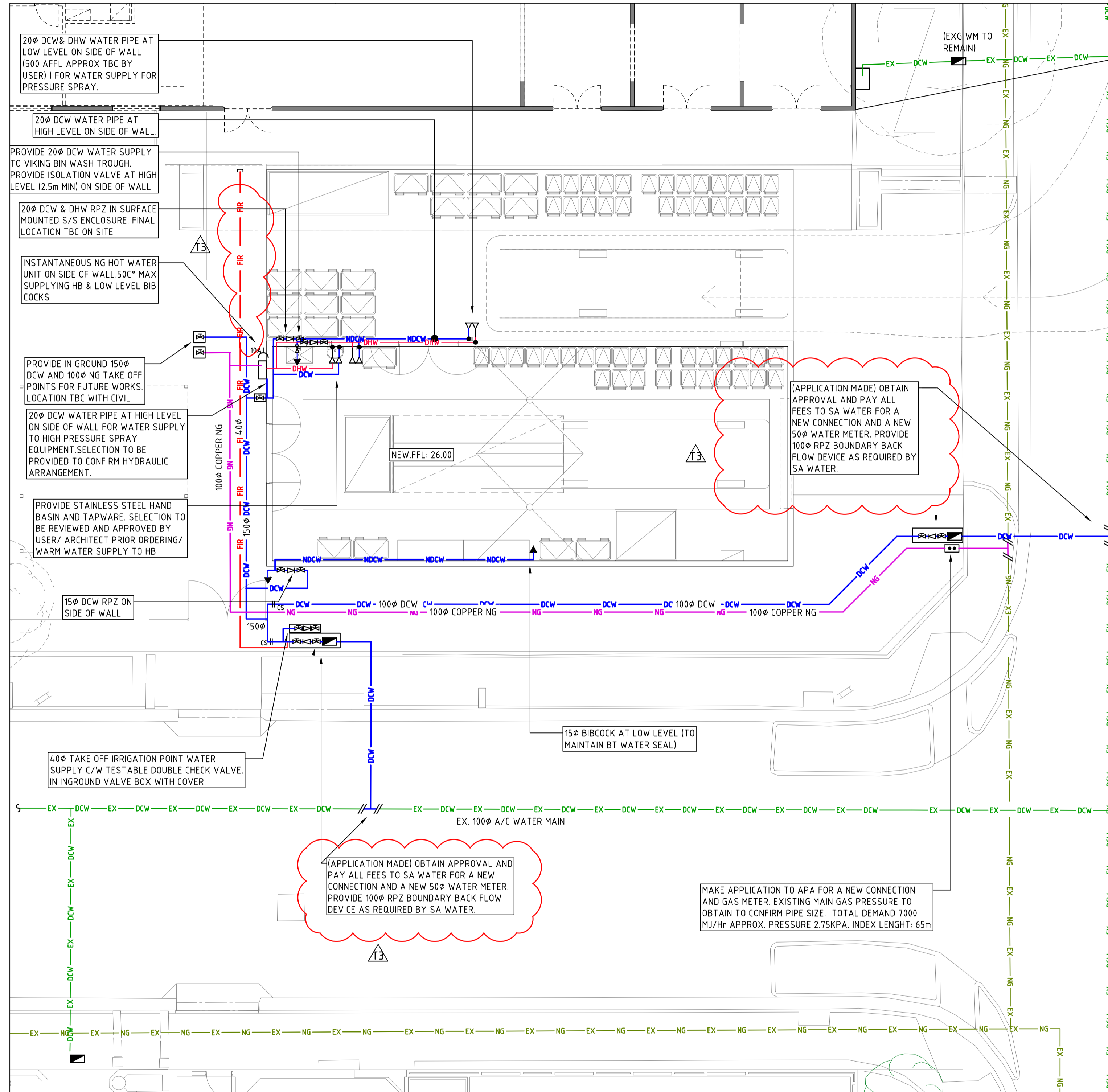


PROPOSED DRAINAGE ARRANGEMENT
SCALE: 1:100

NOTE:
PROVIDE TRAFFOLYTE IDENTIFICATION LABELS TO ALL NEW ISOLATION VALVES

NOTE:
ALL IN-GROUND HYDRAULIC SERVICES LOCATION TO BE COORDINATED WITH CIVIL AND ELECTRICAL SERVICES.

NOTE:
HYDRAULIC SERVICES TO THE EXISTING STORE BUILDING SHALL REMAIN DURING THE WORKS FOR THE NEW WASTE STORE BUILDING



PROPOSED RETICULATION ARRANGEMENT
SCALE: 1:100

DESIGN AND CONSTRUCT

Rev	Date	Amendment Description	By	Chk
T3	04.06.21	FINAL DESIGN CRITERIA ISSUE	LMM	GLC
T2	09.04.21	TENDER ADDENDA H01	LMM	GLC
T1	18.03.21	TENDER ISSUE	LMM	GLC



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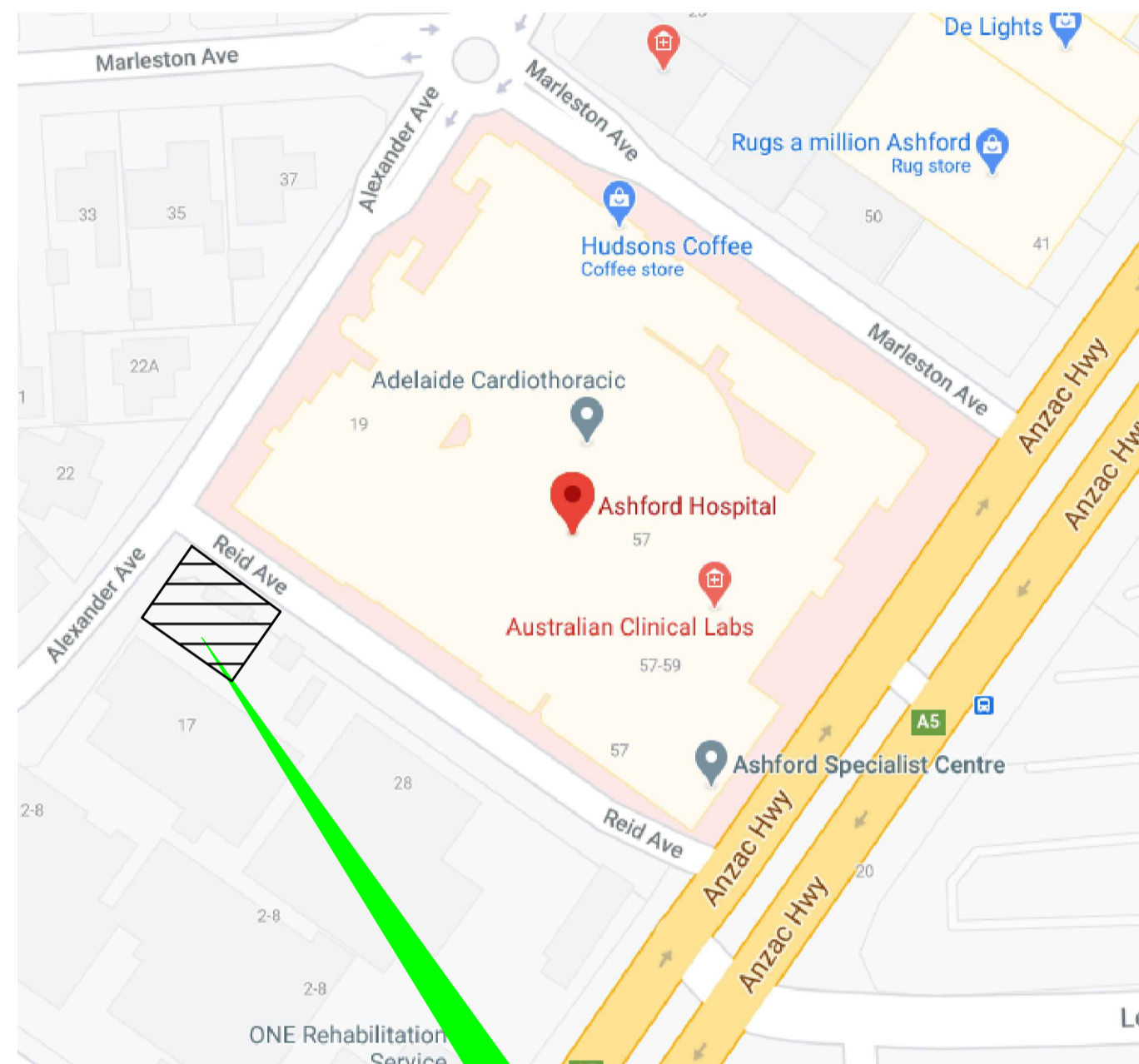
HYDRAULIC SERVICES
PROPOSED DRAINAGE AND RETICULATION ARRANGEMENT

Drawing No.	Revision	Scale @ A1	Drawn	Approved
6629.4-H201	T3	1:100	LMM	GLC

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DRAWING INDEX

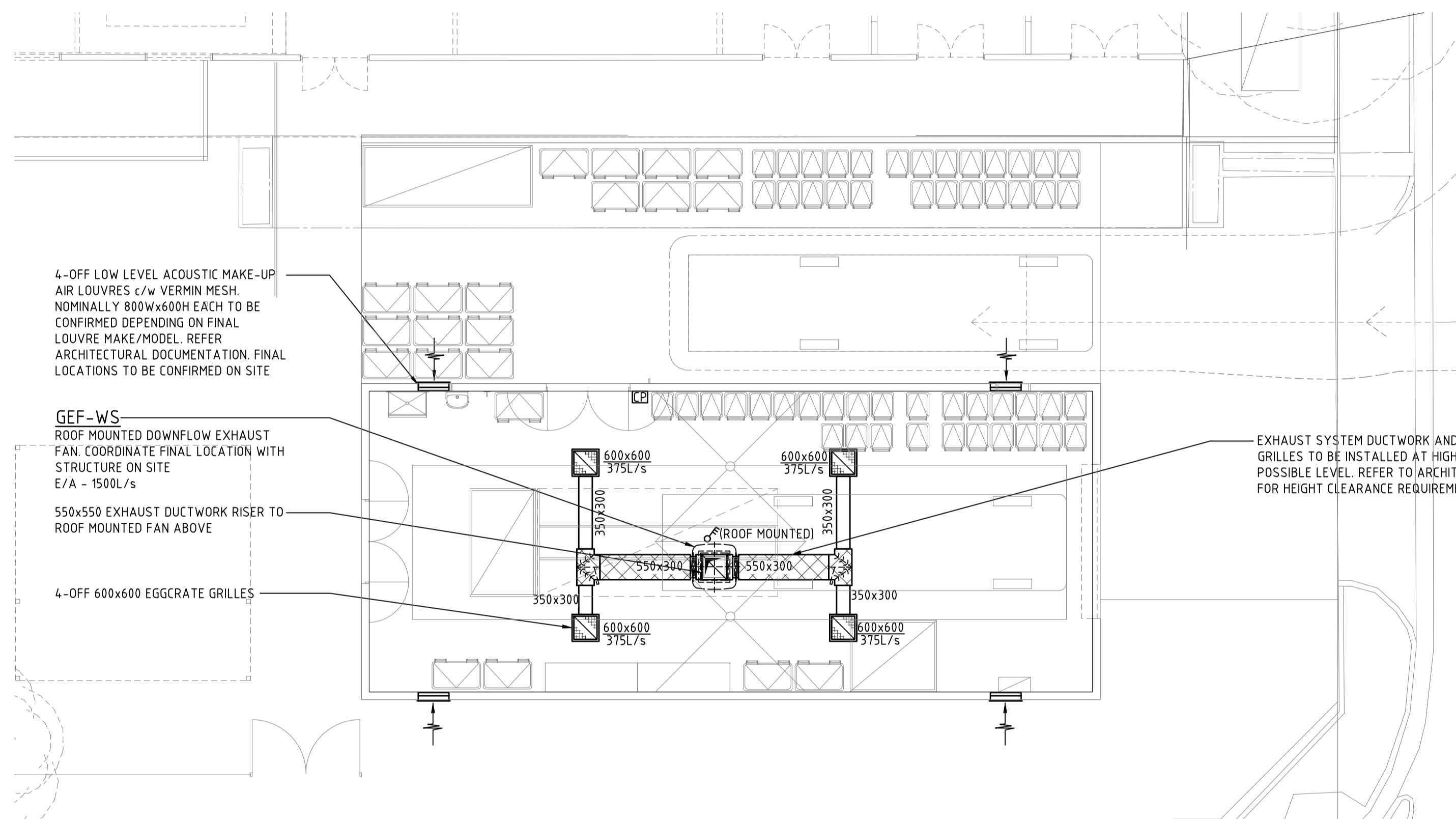
6629.4-M200 DRAWING INDEX, LOCATION PLAN, LEGEND OF SYMBOLS & VENTILATION ARRANGEMENT



SITE OF WORKS

LEGEND OF SYMBOLS

- GEF GENERAL EXHAUST FAN
- OBDD OPPOSED BLADE DAMPER
- L/s LITRES PER SECOND
- SAD, EAG, RAG AIR DIFFUSION - SUPPLY AIR DIFFUSER, EXHAUST AIR GRILLE, RETURN AIR GRILLE
- SAG, ARG, OAG, ATG SUPPLY AIR GRILLE, AIR RELIEF GRILLE, OUTSIDE AIR GRILLE, AIR TRANSFER GRILLE ABOVE FLOOR LEVEL
- AFL NEW GALVANISED SHEET METAL DUCT
- NEW SHEET METAL DUCTWORK WITH ACOUSTIC INSULATION INTERNAL 50mm THICK
- DUCT RISER
- DUCT AIR WAY DIMENSIONS IN mm. FIRST DIMENSION IS THE VISIBLE SIDE SECOND DIMENSION IS NON-VISIBLE SIDE.
- DOUBLE THICKNESS TURNING VANES
- OPPOSED BLADE DAMPER (PLAN VIEW & ELEVATION)
- EXHAUST/ RETURN/ AIR RELIEF/ GRILLE, LENGTH x WIDTH AS SHOWN
- DIRECTION OF FLOW: S/A = SUPPLY AIR R/A = RETURN AIR
O/A = OUTSIDE AIR E/A = EXHAUST AIR
- CONTROL PANEL
- THREE PHASE ISOLATOR BY MECHANICAL SERVICES CONTRACTOR
- XXX XXXX XXX DENOTES ASSOCIATED BUILDERS WORKS
- ROOF MOUNTED FAN/COWL



WASTE BUILDING PART PLAN

SCALE 1:100 @ A1

NOTES:

1. ALL NEW CEILING GRILLES TO BE IN POWDER COAT FINISH - COLOUR TO ARCHITECTS APPROVAL
2. ALL DUCTWORK DIMENSIONS SHOWN ARE CLEAR INTERNAL AIRWAY DIMENSIONS ACCOUNT FOR INSULATION AND FLANGE TOLERANCE TO OBTAIN OVERALL DIMENSIONS.
3. ALL LOUVRE DIMENSIONS SHOWN ARE CLEAR INTERNAL AIRWAY DIMENSIONS ADD 50mm NOMINAL TO EACH DIMENSION TO OBTAIN WALL PENETRATION SIZE
4. ROOF SAFETY SYSTEM & WALKWAYS TO BE PROVIDED BY ROOFING SAFETY CONTRACTOR
5. ALL RISER/DROPPER DIMENSIONS SHOWN CLEAR INTERNAL AIRWAY DIMENSIONS, ACCOUNT FOR INSULATION AND FLANGE TOLERANCE TO OBTAIN FINAL PENETRATION SIZE
6. ROOF PENETRATIONS TO INCLUDE 150mm HIGH UPSTAND BY ROOFING CONTRACTOR. PAN FLASHINGS BY ROOFING CONTRACTOR (NOT SHOWN)

DESIGN AND CONSTRUCT

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MECHANICAL SERVICES

TENDER

DRAWING INDEX, LOCATION PLAN, LEGEND OF SYMBOLS & VENTILATION ARRANGEMENT

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T2	04.06.21	FINAL DESIGN CRITERIA ISSUE	DRB	MAC
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Drawing No.	Revision	Scale @ A1	Drawn	DRB
6629.4-M200	T2	AS SHOWN	Approved	MAC

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100mm AT FULL SIZE