



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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C2642a - ORMISTON COLLEGE - FENCING MASTERPLAN
ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE
REVISION H - 25 NOVEMBER 2024

C2642a-0001(H).xls

ISSUING INFORMATION				DATE OF ISSUE							
	DAY	08	30	19	20	03	19	20	25		
	MONTH	04	05	10	10	11	09	11	11		
	YEAR	22	22	22	22	22	24	24	24		
REASON FOR ISSUE				P	P	P	P	T	C	C	
A = APPROVAL C = CONSTRUCTION N = COORDINATION P = PRELIMINARY T = TENDER											

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C2642a-E04.dwg	ZONE B PLANS	A	B			C	D	E	F
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ELECTRICAL EQUIPMENT SCHEDULE

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TYPE	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
GATE CONTROLLER	CONNECT THE GATE CONTROLLER TO THE CIRCUIT NOMINATED VIA A CONCEALED 240 VOLT CABLE AND ISOLATOR. CONNECT THE GATE CONTROLLER TO THE ACCESS CONTROL SYSTEM.			F
FAN	PROVIDE A HIGH LEVEL WALL MOUNTED 110L/SEC AT 50PA EXHAUST FAN C/W TEMPERATURE CONTROLLER AND SENSOR C/W INTEGRAL NON RETURN DAMPER AND WEATHER PROOF LOUVER. PROVIDE A 600 X 300 WEATHER PROOF LOUVER C/W VERMIN SCREEN MOUNTED AT LOW LEVEL WITHIN THE DOOR OPPOSITE TO THE FAN. CONFIGURE THE FAN TO OPERATE AUTOMATICALLY WHEN THE AIR TEMPERATURE INSIDE THE ENCLOSURE REACHES 25 DEG. CONNECT THE FAN TO THE NOMINATED GPO VIA A FLEX AND PLUG.			F
DB-A	PROVIDE DB-A AS A PLASTIC 24 POLE SINGLE PHASE LOAD CENTRE C/W A 100 AMP NON AUTO LOAD BREAK MAIN SWITCH A 100 AMP BUS COMB AND A CLEAR SWITCHGEAR COVER. PROVIDE A SINGLE PHASE 63 AMP MINIATURE CIRCUIT BREAKER IN DB-56 TO SUPPLY DB-A. PROVIDE A 25MM 2CORE + E UNDERGROUND SUBMAIN FROM THE DB-56 CIRCUIT BREAKER TO SUPPLY DB-A. PROVIDE EACH OF THE 11 DB-A CIRCUITS AS SINGLE PHASE 2.5MM CIRCUITS PROTECTED BY A 20AMP RCBO. PROVIDE DB-A WITH A WALL MOUNTED LAMINATED CIRCUIT SCHEDULE. PROVIDE DETAILS OF DB-A FOR APPROVAL. CONTROL CIRCUIT DB-A - P8 (SIGN) VIA A PE CELL TO TURN ON 30 MINUETS PRIOR TO DUSK AND OFF VIA A TIME CLOCK AT 11.00PM. CONTROL CIRCUIT DB-A - P9 (LIGHT) VIA A PE CELL TO TURN ON 30 MINUETS PRIOR TO DUSK AND OFF AT DAWN.			F
DB-B	PROVIDE DB-B AS A PLASTIC 24 POLE SINGLE PHASE LOAD CENTRE C/W A 100 AMP NON AUTO LOAD BREAK MAIN SWITCH A 100 AMP BUS COMB AND A CLEAR SWITCHGEAR COVER. PROVIDE A SINGLE PHASE 63 AMP MINIATURE CIRCUIT BREAKER IN DB-40 TO SUPPLY DB-B. PROVIDE A 25MM 2CORE + E UNDERGROUND SUBMAIN FROM THE DB-40 CIRCUIT BREAKER TO SUPPLY DB-B. PROVIDE EACH OF THE 10 DB-B CIRCUITS AS SINGLE PHASE 2.5MM CIRCUITS PROTECTED BY A 20AMP RCBO. PROVIDE DB-B WITH A WALL MOUNTED LAMINATED CIRCUIT SCHEDULE. PROVIDE DETAILS OF DB-B FOR APPROVAL. CONTROL CIRCUIT DB-B - P7 (SIGN) VIA A PE CELL TO TURN ON 30 MINUETS PRIOR TO DUSK AND OFF VIA A TIME CLOCK AT 11.00PM.			F
DB-C	PROVIDE DB-C AS A PLASTIC 24 POLE SINGLE PHASE LOAD CENTRE C/W A 100 AMP NON AUTO LOAD BREAK MAIN SWITCH A 100 AMP BUS COMB AND A CLEAR SWITCHGEAR COVER. PROVIDE A SINGLE PHASE 63 AMP MINIATURE CIRCUIT BREAKER IN DB-40 TO SUPPLY DB-C. PROVIDE A 25MM 2CORE + E UNDERGROUND SUBMAIN FROM THE DB-40 CIRCUIT BREAKER TO SUPPLY DB-C. PROVIDE EACH OF THE 6 DB-C CIRCUITS AS SINGLE PHASE 2.5MM CIRCUITS PROTECTED BY A 20AMP RCBO. PROVIDE DB-C WITH A WALL MOUNTED LAMINATED CIRCUIT SCHEDULE. PROVIDE DETAILS OF DB-C FOR APPROVAL.			F
DB-1	EXISTING BUILDING 1 DISTRIBUTION BOARD TO BE PROVIDED WITH A NEW CIRCUIT BRAKER TO SUPPLY THE NEW DB-1 - P1 CIRCUIT. UPDATE THE SCHEDULE.			F
CIRCUIT DB-1 - P1	PROVIDE CIRCUIT DB-1 - P1 AS SINGLE PHASE 2.5MM CIRCUIT PROTECTED BY A 20AMP RCBO SUPPLIED FROM THE EXISTING ADMINISTRATION BUILDING DISTRIBUTION BOARD DB-1. UPDATE THE DISTRIBUTION BOARD CIRCUIT SCHEDULE. CIRCUIT DB-1 - P1 IS TO BE FULLY CONCEALED FROM THE DISTRIBUTION BOARD TO THE ISOLATOR.			F
DB-56	EXISTING BUILDING 56 DISTRIBUTION BOARD TO BE UPGRADED AS NECESSARY TO ACCOMMODATE THE NEW DB-A SUPPLY CIRCUIT BREAKER. LABEL THE NEW CIRCUIT BREAKER "FRONT FENCE DB-A" UTILISE THE EXISTING UNDERGROUND CONDUIT SYSTEM TO FACILITATE THE NEW DB-A SUBMAIN.			F
DB-40	EXISTING BUILDING 40 DISTRIBUTION BOARD TO BE UPGRADED TO ACCOMMODATE THE NEW DB-B AND DB-C SUPPLY CIRCUIT BREAKERS. PROVIDE A NEW 30 POLE ENCLOSURE IMMEDIATELY BELOW THE EXISTING PANEL. THE NEW ENCLOSURE IS TO BE THE SAME BRAND STYLE COLOUR WIDTH DEPTH AND HAVE A SIMILAR DOOR AS THE EXISTING PANEL. RELOCATE THE EXISTING THREE PHASE RCD CIRCUIT TO THE NEW 30 POLE PANEL. PROVIDE A NEW 63 AMP THREE PHASE MCCBS IN THE SPACE CREATED TO SUPPLY THE NEW PANEL. LABEL THE NEW CIRCUIT BREAKERS "FRONT FENCE DB-B" AND "FRONT FENCE DB-C" PROVIDE CONCEALED CABLE ACCESS FROM THE DB TO THE EXISTING UNDERGROUND CONDUIT SYSTEM TO FACILITATE THE NEW DB-B AND DB-C SUBMAINS.			F



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ELECTRICAL EQUIPMENT SCHEDULE

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TYPE	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
CR-A	PROVIDE CR-A AS A WALL MOUNTED 12 RU 400 DEEP LOCKABLE COMMUNICATIONS RACK C/W A FOBOT, PATCH PANELS AND MOUNTING TRAY. CONNECT THE FOBOT TO CORE A VIA A NEW MOLEX 12 CORE OS2 UNDERGROUND CABLE FULLY TERMINATED WITH SC CONNECTORS RUN UNDERGROUND TO THE BUILDING 56 SWITCH ROOM THEN VIA A NEW CONCEALED CABLE ACCESS SYSTEM THROUGH BUILDING 56 TO CORE 3. CONFIRM THE CONCEALED CABLE ROUTE THROUGH BUILDING 56 ON SITE WITH THE SCHOOL. PROVIDE A NEW FOBOT IN CORE 3 AS REQUIRED. PROVIDE DETAILS OF THE RACK, FOBOTS, PATCH PANELS AND CABLE FOR APPROVAL. MOUNT THE ASSOCIATED GPO ON THE REAR WALL WITHIN THE RACK.			F
CR-B	PROVIDE CR-C AS A WALL MOUNTED 12 RU 400 DEEP LOCKABLE COMMUNICATIONS RACK C/W A FOBOT, PATCH PANELS AND MOUNTING TRAY. RECOVER THE EXISTING FIBRE THAT SERVICES THE SIGN AND REDIRECT IT TO THE NEW CR-B FOBOT. PROVIDE DETAILS OF THE RACK, FOBOTS, PATCH PANELS AND CABLE FOR APPROVAL. MOUNT THE ASSOCIATED GPO ON THE REAR WALL WITHIN THE RACK.			F
CR-C	PROVIDE CR-C AS A WALL MOUNTED 12 RU 400 DEEP LOCKABLE COMMUNICATIONS RACK C/W A FOBOT, PATCH PANELS AND MOUNTING TRAY. CONNECT THE CR-C FOBOT TO CR-B A VIA A NEW MOLEX 12 CORE OS2 UNDERGROUND CABLE FULLY TERMINATED WITH SC CONNECTORS RUN UNDERGROUND. PROVIDE DETAILS OF THE RACK, FOBOTS, PATCH PANELS AND CABLE FOR APPROVAL. MOUNT THE ASSOCIATED GPO ON THE REAR WALL WITHIN THE RACK.			F
CORE A	EXISTING BUILDING 56 CORE A TO BE UPGRADED WITH A NEW FOBOT THAT MATCHES THE EXISTING TO ACCOMMODATE THE NEW CR-A FIBRE.			F
POLE	PROVIDE A 9M HIGH BLACK TAPERED METAL POLE C/W BASEPLATE ACCESS PANEL AND RAG BOLT FOOTING. PROVIDE THE POLE WITH FOUR CAT6 MALE PLUGS BEHIND THE ACCESS PANEL EACH CABLED VIA A DEDICATED CONCEALED UNDERGROUND CABLE TO A PATCH PANEL IN CR-A. PROVIDE EACH CABLE WITH 10M OF SPARE CABLE TO ALLOW THE PLUG TO BE DRAWN UP THE POLE TO A CCTV CAMERA. PROVIDE THE POLE WITH A GAMMA ILLUMINATION ALTUS 1346-4K-120W BLACK FLOOD LIGHT.			F
EXISTING DIGITAL SIGN	EXISTING DIGITAL SIGN. RECOVER THE EXISTING FIBRE THAT SUPPLIES THE SIGN AND REDIRECT IT INTO CR-B. PROVIDE A NEW UNDERGROUND CAT 6 SERVICE FROM CR-B TO THE SIGN WITH THE OUTLET POSITION IN THE SIGN CONFIRMED ON SITE WITH THE SCHOOL. REMOVE THE EXISTING POWER SUPPLY FROM DB-42 TO THE SIGN AND RESUPPLY THE SIGN FROM DB-B.			F
ILLUMINATED SIGN	PROVIDE A GPO IN A CONCEALED POSITION COORDINATED WITH THE SIGN CONTRACTOR ENSURING THE GPO IS PROVIDED WITH APPROPRIATE WEATHER PROTECTION.			F
ISCVG1	WALL MOUNTED INTERCOM DOOR STATION CABLED TO AN IP CONTROL UNIT LOCATED IN CR-A VIA A UNDERGROUND SINGLE PAIR SHIELDED TWISTED 24 AWG CABLE. MOUNT THE DOOR STATION ON A CUSTOM BRUSHED STAINLESS STEEL MOUNTING PLATE THAT ALSO MOUNTS THE CRVG1 AND THE MKVG1. PROVIDE A SHOP DRAWING OF THE CUSTOM BRUSHED STAINLESS STEEL MOUNTING PLATE FOR APPROVAL. SHELF MOUNT THE IP CONTROL UNIT IN CR-A WITH IT EARTHED AS PER THE INSTALLATION INSTRUCTIONS. CONNECT THE IP CONTROLLERS "NO" DOOR OUTPUT RELAY TO THE VG1 ACCESS CONTROL PANEL LOCATED ADJACENT CR-A TO ALLOW THE REMOTE OPENING OF VG1	STAINLESS STEEL FACEPLATE	ALGO SOLUTIONS 8028 SIP INTERCOM SST G2	F



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MKVG1	WALL MOUNTED MANUAL WEATHER PROOF BRASS KEY DL259A (OPEN -AUTO-CLOSED) SELECTOR SWITCH. CONNECT THE MKVG1 TO THE VG1 ACCESS CONTROL PANEL. LOCATED ADJACENT CR-A TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE KEY AND OR CONTROL THE GATE WHEN THE KEY IS USED. MOUNT THE KEY SELECTOR SWITCH ON THE SAME CUSTOM MOUNTING PLATE THAT ALSO MOUNTS THE ISCVG1 AND CRVG1.			F
CRVG1	WALL MOUNTED ACCESS CONTROL CARD READER CABLED TO THE VG1 ACCESS CONTROL PANEL LOCATED ADJACENT CR-A TO ALLOW THE ACCESS CONTROL SYSTEM CONTROL OF VG1. MOUNT THE CARD READER ON THE SAME CUSTOM MOUNTING PLATE THAT ALSO MOUNTS THE ISCVG1 AND MKVG1.	NA	INNER RANGE SIFER RS-485	F
ISCVG2	WALL MOUNTED INTERCOM DOOR STATION CABLED TO AN IP CONTROL UNIT LOCATED IN CR-A VIA A UNDERGROUND SINGLE PAIR SHIELDED TWISTED 24 AWG CABLE. MOUNT THE DOOR STATION ON A CUSTOM BRUSHED STAINLESS STEEL MOUNTING PLATE THAT ALSO MOUNTS THE CRVG2 AND THE MKVG2. PROVIDE A SHOP DRAWING OF THE CUSTOM BRUSHED STAINLESS STEEL MOUNTING PLATE FOR APPROVAL. SHELF MOUNT THE IP CONTROL UNIT IN CR-A WITH IT EARTHED AS PER THE INSTALLATION INSTRUCTIONS. CONNECT THE IP CONTROLLERS "NO" DOOR OUTPUT RELAY TO THE VG2 ACCESS CONTROL PANEL LOCATED ADJACENT CR-A TO ALLOW THE REMOTE OPENING OF VG2.	STAINLESS STEEL FACEPLATE	ALGO SOLUTIONS 8028 SIP INTERCOM SST G2	F
MKVG2	WALL MOUNTED MANUAL WEATHER PROOF BRASS KEY DL259A (OPEN -AUTO-CLOSED) SELECTOR SWITCH. CONNECT THE MKVG2 TO THE VG2 ACCESS CONTROL PANEL. LOCATED ADJACENT CR-A TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE KEY AND OR CONTROL THE GATE WHEN THE KEY IS USED. MOUNT THE KEY SELECTOR SWITCH ON THE SAME CUSTOM MOUNTING PLATE THAT ALSO MOUNTS THE ISCVG2 AND CRVG2.			F
CRVG2	WALL MOUNTED ACCESS CONTROL CARD READER CABLED TO THE VG2 ACCESS CONTROL PANEL LOCATED ADJACENT CR-A TO ALLOW THE REMOTE OPENING OF VG2 VIA A DEDICATED UNDERGROUND RS-485 CABLE. MOUNT THE CARD READER ON THE SAME CUSTOM MOUNTING PLATE THAT ALSO MOUNTS THE ISCVG2 AND MKVG2.	NA	INNER RANGE SIFER RS-485	F
ISCVG3	WALL MOUNTED INTERCOM DOOR STATION CABLED TO AN IP CONTROL UNIT LOCATED IN CR-B VIA A UNDERGROUND SINGLE PAIR SHIELDED TWISTED 24 AWG CABLE. MOUNT THE DOOR STATION ON A CUSTOM BRUSHED STAINLESS STEEL MOUNTING PLATE THAT ALSO MOUNTS THE CRVG3 AND THE MKVG3. PROVIDE A SHOP DRAWING OF THE CUSTOM BRUSHED STAINLESS STEEL MOUNTING PLATE FOR APPROVAL. SHELF MOUNT THE IP CONTROL UNIT IN CR-B WITH IT EARTHED AS PER THE INSTALLATION INSTRUCTIONS. CONNECT THE IP CONTROLLERS "NO" DOOR OUTPUT RELAY TO THE VG3 ACCESS CONTROL PANEL LOCATED ADJACENT CR-B TO ALLOW THE REMOTE OPENING OF VG3.	STAINLESS STEEL FACEPLATE	ALGO SOLUTIONS 8028 SIP INTERCOM SST G2	F



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MKVG3	WALL MOUNTED MANUAL WEATHER PROOF BRASS KEY DL259A (OPEN -AUTO-CLOSED) SELECTOR SWITCH. CONNECT THE MKVG3 TO THE VG3 ACCESS CONTROL PANEL LOCATED ADJACENT CR-B TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE KEY AND OR CONTROL THE GATE WHEN THE KEY IS USED. MOUNT THE KEY SELECTOR SWITCH ON THE SAME CUSTOM MOUNTING PLATE THAT ALSO MOUNTS THE ISCVG3 AND CRVG3.			F
CRVG3	WALL MOUNTED ACCESS CONTROL CARD READER CABLED TO THE VG3 ACCESS CONTROL PANEL LOCATED ADJACENT CR-B TO ALLOW THE ACCESS CONTROL SYSTEM CONTROL OF VG3. MOUNT THE CARD READER ON THE SAME CUSTOM MOUNTING PLATE THAT ALSO MOUNTS THE ISCVG3 AND MKVG3.	NA	INNER RANGE SIFER RS-485	F
ISCVG4	WALL MOUNTED INTERCOM DOOR STATION CABLED TO AN IP CONTROL UNIT LOCATED IN CR-B VIA A UNDERGROUND SINGLE PAIR SHIELDED TWISTED 24 AWG CABLE. MOUNT THE DOOR STATION ON A CUSTOM BRUSHED STAINLESS STEEL MOUNTING PLATE THAT ALSO MOUNTS THE CRVG4 AND THE MKVG4. PROVIDE A SHOP DRAWING OF THE CUSTOM BRUSHED STAINLESS STEEL MOUNTING PLATE FOR APPROVAL. SHELF MOUNT THE IP CONTROL UNIT IN CR-B WITH IT EARTHED AS PER THE INSTALLATION INSTRUCTIONS. CONNECT THE IP CONTROLLERS "NO" DOOR OUTPUT RELAY TO THE VG4 ACCESS CONTROL PANEL LOCATED ADJACENT CR-B TO ALLOW THE REMOTE OPENING OF VG4.	STAINLESS STEEL FACEPLATE	ALGO SOLUTIONS 8028 SIP INTERCOM SST G2	F
MKVG4	WALL MOUNTED MANUAL WEATHER PROOF BRASS KEY DL259A (OPEN -AUTO-CLOSED) SELECTOR SWITCH. CONNECT THE MKVG4 TO THE VG4 ACCESS CONTROL PANEL LOCATED ADJACENT CR-B TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE KEY AND OR CONTROL THE GATE WHEN THE KEY IS USED. MOUNT THE KEY SELECTOR SWITCH ON THE SAME CUSTOM MOUNTING PLATE THAT ALSO MOUNTS THE ISCVG4 AND CRVG4.			F
CRVG4	WALL MOUNTED ACCESS CONTROL CARD READER CABLED TO THE VG4 ACCESS CONTROL PANEL LOCATED ADJACENT CR-B TO ALLOW THE REMOTE OPENING OF VG4 VIA A DEDICATED UNDERGROUND RS-485 CABLE. MOUNT THE CARD READER ON THE SAME CUSTOM MOUNTING PLATE THAT ALSO MOUNTS THE ISCVG4 AND MKVG4.	NA	INNER RANGE SIFER RS-485	F
MKPG3	WALL MOUNTED MANUAL WEATHER PROOF BRASS KEY DL259A (OPEN -AUTO-CLOSED) SELECTOR SWITCH. CONNECT THE MKPG3 TO THE PG3 ACCESS CONTROL PANEL LOCATED ADJACENT CR-B TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE KEY AND OR CONTROL THE GATE WHEN THE KEY IS USED. MOUNT THE KEY SELECTOR SWITCH ON THE SAME CUSTOM MOUNTING PLATE THAT ALSO MOUNTS CRPG3. PROVIDE A SHOP DRAWING OF THE CUSTOM BRUSHED STAINLESS STEEL MOUNTING PLATE FOR APPROVAL.			F
CRPG3	WALL MOUNTED ACCESS CONTROL CARD READER CABLED TO THE PG3 ACCESS CONTROL PANEL LOCATED ADJACENT CR-B TO ALLOW THE ACCESS CONTROL SYSTEM CONTROL OF PG3. MOUNT THE CARD READER ON THE SAME CUSTOM MOUNTING PLATE THAT ALSO MOUNTS MKPG3.	NA	INNER RANGE SIFER RS-485	F



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TYPE	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
MKBG1	POST MOUNTED MANUAL WEATHER PROOF BRASS KEY DL259A (OPEN -AUTO-CLOSED) SELECTOR SWITCH. CONNECT THE MKBG1 TO THE BG1 ACCESS CONTROL PANEL LOCATED IN THE ADMIN BUILDING ON LEVEL 1 ADJACENT THE EXISTING SECURITY EQUIPMENT TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE KEY AND OR CONTROL THE GATE WHEN THE KEY IS USED. MOUNT THE KEY SELECTOR SWITCH ON THE SAME CUSTOM MOUNTING PLATE THAT ALSO MOUNTS CRBG1. PROVIDE THE POST AS 100 X 100 416 STAINLESS STEEL POWDER COATED POST C/W A WELDED CAP THAT IS GROUND SMOOTH TO APPEAR PART OF THE POST. MOUNT THE POST INTO A REINFORCED CONCRETE FOOTING. PROVIDE A SHOP DRAWING OF THE CUSTOM BRUSHED STAINLESS STEEL MOUNTING PLATE AND MOUNTING POST FOR APPROVAL.			F
CRBG1	WALL MOUNTED ACCESS CONTROL CARD READER CABLED TO THE BG1 ACCESS CONTROL PANEL LOCATED IN THE ADMIN BUILDING ON LEVEL 1 ADJACENT THE EXISTING SECURITY EQUIPMENT TO ALLOW THE ACCESS CONTROL SYSTEM TO CONTROL BG1. MOUNT THE CARD READER ON THE SAME CUSTOM MOUNTING PLATE THAT ALSO MOUNTS MKPG3.	NA	INNER RANGE SIFER RS-485	F
MKVG1A	WALL MOUNTED MANUAL WEATHER PROOF BRASS KEY DL259A (OPEN -AUTO-CLOSED) SELECTOR SWITCH. CONNECT THE MKVG1A TO THE VG1A ACCESS CONTROL PANEL LOCATED ADJACENT CR-A TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE KEY AND OR CONTROL THE GATE WHEN THE KEY IS USED.			F
MKVG1B	WALL MOUNTED MANUAL WEATHER PROOF BRASS KEY DL259A (OPEN -AUTO-CLOSED) SELECTOR SWITCH. CONNECT THE MKVG1B TO THE VG1B ACCESS CONTROL PANEL LOCATED ADJACENT CR-A TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE KEY AND OR CONTROL THE GATE WHEN THE KEY IS USED.			F
MKVG4A	WALL MOUNTED MANUAL WEATHER PROOF BRASS KEY DL259A (OPEN -AUTO-CLOSED) SELECTOR SWITCH. CONNECT THE MKVG4A TO THE VG4A ACCESS CONTROL PANEL LOCATED ADJACENT CR-C TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE KEY AND OR CONTROL THE GATE WHEN THE KEY IS USED.			F
MKVG4B	WALL MOUNTED MANUAL WEATHER PROOF BRASS KEY DL259A (OPEN -AUTO-CLOSED) SELECTOR SWITCH. CONNECT THE MKVG4B TO THE VG4B ACCESS CONTROL PANEL LOCATED ADJACENT CR-C TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE KEY AND OR CONTROL THE GATE WHEN THE KEY IS USED.			F
PBBG1	POST MOUNTED MANUAL WEATHER PROOF STAINLESS STEEL MOMENTARY PUSH BUTTON C/W BLACK ENGRAVING "PUSH TO EXIT" CONNECT THE PBBG1 TO THE BG1 ACCESS CONTROL PANEL LOCATED IN THE ADMIN BUILDING ON LEVEL 1 ADJACENT THE EXISTING SECURITY EQUIPMENT TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE KEY AND OR CONTROL THE GATE WHEN THE KEY IS USED. PROVIDE THE POST AS 100 X 100 416 STAINLESS STEEL POWDER COATED POST C/W A WELDED CAP THAT IS GROUND SMOOTH TO APPEAR PART OF THE POST. MOUNT THE POST INTO A REINFORCED CONCRETE FOOTING. PROVIDE A SHOP DRAWING OF THE MOUNTING POST FOR APPROVAL.			F
PBPG3	POST MOUNTED MANUAL WEATHER PROOF STAINLESS STEEL MOMENTARY PUSH BUTTON C/W BLACK ENGRAVING "PUSH TO EXIT" CONNECT THE PBPG3 TO THE PG3 ACCESS CONTROL PANEL LOCATED ADJACENT CR-B TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE PB AND OR CONTROL THE GATE WHEN THE PB IS USED. MOUNT THE PB ON A 100 X 100 416 STAINLESS STEEL POWDER COATED POST C/W A WELDED CAP THAT IS GROUND SMOOTH TO APPEAR PART OF THE POST. MOUNT THE POST INTO A REINFORCED CONCRETE FOOTING. PROVIDE A SHOP DRAWING OF THE MOUNTING POST FOR APPROVAL.			F
PBPG6	POST MOUNTED MANUAL WEATHER PROOF STAINLESS STEEL MOMENTARY PUSH BUTTON C/W BLACK ENGRAVING "PUSH TO EXIT" CONNECT THE PBPG6 TO THE PG6 ACCESS CONTROL PANEL LOCATED ADJACENT CR-A TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE PB AND OR CONTROL THE GATE WHEN THE PB IS USED. MOUNT THE PB ON A 100 X 100 416 STAINLESS STEEL POWDER COATED POST C/W A WELDED CAP THAT IS GROUND SMOOTH TO APPEAR PART OF THE POST. MOUNT THE POST INTO A REINFORCED CONCRETE FOOTING. PROVIDE A SHOP DRAWING OF THE MOUNTING POST FOR APPROVAL.			F

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TYPE	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
MHPG1	POST MOUNTED MAGNETIC HOLDER CONNECT THE MHPG1 TO THE PG1 ACCESS CONTROL PANEL LOCATED ADJACENT CR-A TO ALLOW THE ACCESS CONTROL SYSTEM TO CONTROL THE MAGNETIC HOLDER. MOUNT THE MH ON A 100 X 100 416 STAINLESS STEEL POWDER COATED POST C/W A WELDED CAP THAT IS GROUND SMOOTH TO APPEAR PART OF THE POST. MOUNT THE POST INTO A REINFORCED CONCRETE FOOTING. PROVIDE A SHOP DRAWING OF THE MOUNTING POST FOR APPROVAL. PROVIDE THE NECESSARY MH POWER SUPPLY.	BLACK	FLAME STOP PDH-WM	F
MHPG4	POST MOUNTED MAGNETIC HOLDER CONNECT THE MHPG4 TO THE PG4 ACCESS CONTROL PANEL LOCATED ADJACENT CR-B TO ALLOW THE ACCESS CONTROL SYSTEM TO CONTROL THE MAGNETIC HOLDER. MOUNT THE MH ON A 100 X 100 416 STAINLESS STEEL POWDER COATED POST C/W A WELDED CAP THAT IS GROUND SMOOTH TO APPEAR PART OF THE POST. MOUNT THE POST INTO A REINFORCED CONCRETE FOOTING. PROVIDE A SHOP DRAWING OF THE MOUNTING POST FOR APPROVAL. PROVIDE THE NECESSARY MH POWER SUPPLY.	BLACK	FLAME STOP PDH-WM	F
MHPG6	POST MOUNTED MAGNETIC HOLDER CONNECT THE MHPG6 TO THE PG6 ACCESS CONTROL PANEL LOCATED ADJACENT CR-A TO ALLOW THE ACCESS CONTROL SYSTEM TO CONTROL THE MAGNETIC HOLDER. MOUNT THE MH ON A 100 X 100 416 STAINLESS STEEL POWDER COATED POST C/W A WELDED CAP THAT IS GROUND SMOOTH TO APPEAR PART OF THE POST. MOUNT THE POST INTO A REINFORCED CONCRETE FOOTING. PROVIDE A SHOP DRAWING OF THE MOUNTING POST FOR APPROVAL. PROVIDE THE NECESSARY MH POWER SUPPLY.	BLACK	FLAME STOP PDH-WM	F
MHPG5	WALL MOUNTED MAGNETIC HOLDER CONNECT THE MHPG5 TO THE PG5 ACCESS CONTROL PANEL LOCATED ADJACENT CR-C TO ALLOW THE ACCESS CONTROL SYSTEM TO CONTROL THE MAGNETIC HOLDER.	BLACK	FLAME STOP PDH-WM	F
PBPG1	WALL MOUNTED MANUAL WEATHER PROOF STAINLESS STEEL MOMENTARY PUSH BUTTON C/W BLACK ENGRAVING "PUSH TO EXIT" CONNECT THE PBPG1 TO THE PG1 ACCESS CONTROL PANEL LOCATED ADJACENT CR-A TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE PB AND OR CONTROL THE GATE WHEN THE PB IS USED.			F
PBPG4	WALL MOUNTED MANUAL WEATHER PROOF STAINLESS STEEL MOMENTARY PUSH BUTTON C/W BLACK ENGRAVING "PUSH TO EXIT" CONNECT THE PBPG4 TO THE PG4 ACCESS CONTROL PANEL LOCATED ADJACENT CR-B TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE PB AND OR CONTROL THE GATE WHEN THE PB IS USED.			F
PBPG5	WALL MOUNTED MANUAL WEATHER PROOF STAINLESS STEEL MOMENTARY PUSH BUTTON C/W BLACK ENGRAVING "PUSH TO EXIT" CONNECT THE PBPG5 TO THE PG5 ACCESS CONTROL PANEL LOCATED ADJACENT CR-C TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE PB AND OR CONTROL THE GATE WHEN THE PB IS USED.			F



ELECTRICAL DESIGN GROUP

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ELECTRICAL EQUIPMENT SCHEDULE

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TYPE	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
CRPG6	POST MOUNTED CARD READER. CONNECT THE CRPG6 TO THE PG6 ACCESS CONTROL PANEL. LOCATED ADJACENT CR-A TO ALLOW THE ACCESS CONTROL SYSTEM CONTROL OF PG6. MOUNT THE CR ON A 100 X 100 416 STAINLESS STEEL POWDER COATED POST C/W A WELDED CAP THAT IS GROUND SMOOTH TO APPEAR PART OF THE POST. MOUNT THE POST INTO A REINFORCED CONCRETE FOOTING. PROVIDE A SHOP DRAWING OF THE MOUNTING POST FOR APPROVAL.	BLACK	INNER RANGE SIFER RS-485	F
CRPG1	WALL MOUNTED CARD READER. CONNECT THE CRPG1 TO THE PG1 ACCESS CONTROL PANEL. LOCATED ADJACENT CR-A TO ALLOW THE ACCESS CONTROL SYSTEM CONTROL OF PG1.	NA	INNER RANGE SIFER RS-485	F
CRPG4	WALL MOUNTED CARD READER. CONNECT THE CRPG4 TO THE PG4 ACCESS CONTROL PANEL. LOCATED ADJACENT CR-B TO ALLOW THE ACCESS CONTROL SYSTEM CONTROL OF PG4.	NA	INNER RANGE SIFER RS-485	F
CRPG5	WALL MOUNTED CARD READER. CONNECT THE CRPG5 TO THE PG5 ACCESS CONTROL PANEL. LOCATED ADJACENT CR-B TO ALLOW THE ACCESS CONTROL SYSTEM CONTROL OF PG5.	NA	INNER RANGE SIFER RS-485	F
ESPG1	EXTERNAL GATE ELECTRIC STRIKE PROVIDED AS PART OF THE GATE. CABLE THE ESPG1 TO THE PG1 ACCESS CONTROL PANEL. LOCATED ADJACENT CR-A VIA CONCEALED CABLING TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE ES AND OR CONTROL THE GATE.			F
ESPG4	EXTERNAL GATE ELECTRIC STRIKE PROVIDED AS PART OF THE GATE. CABLE THE ESPG4 TO THE PG4 ACCESS CONTROL PANEL. LOCATED ADJACENT CR-B VIA CONCEALED CABLING TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE ES AND OR CONTROL THE GATE.			F
ESPG5	EXTERNAL GATE ELECTRIC STRIKE PROVIDED AS PART OF THE GATE. CABLE THE ESPG5 TO THE PG5 ACCESS CONTROL PANEL. LOCATED ADJACENT CR-C VIA CONCEALED CABLING TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE ES AND OR CONTROL THE GATE.			F
ESPG6	EXTERNAL GATE ELECTRIC STRIKE PROVIDED AS PART OF THE GATE. CABLE THE ESPG6 TO THE PG6 ACCESS CONTROL PANEL. LOCATED ADJACENT CR-A VIA CONCEALED CABLING TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE ES AND OR CONTROL THE GATE.			F



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VG1 INDUCTIVE LOOP	PROVIDE A INGROUND INDUCTIVE LOOP FOR THE VG1 EXIT CONNECTED TO THE VG1 ACCESS CONTROL PANEL LOCATED ADJACENT CR-A VIA CONCEALED CABLING TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE INDUCTIVE LOOP AND OR CONTROL THE GATE.			F
VG2 INDUCTIVE LOOP	PROVIDE A INGROUND INDUCTIVE LOOP FOR THE VG2 EXIT CONNECTED TO THE VG2 ACCESS CONTROL PANEL LOCATED ADJACENT CR-A VIA CONCEALED CABLING TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE INDUCTIVE LOOP AND OR CONTROL THE GATE.			F
VG3 INDUCTIVE LOOP	PROVIDE A INGROUND INDUCTIVE LOOP FOR THE VG3 EXIT CONNECTED TO THE VG3 ACCESS CONTROL PANEL LOCATED ADJACENT CR-B VIA CONCEALED CABLING TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE INDUCTIVE LOOP AND OR CONTROL THE GATE.			F
VG4A INDUCTIVE LOOP	PROVIDE A INGROUND INDUCTIVE LOOP FOR THE VG4A EXIT CONNECTED TO THE VG4A ACCESS CONTROL PANEL LOCATED ADJACENT CR-C VIA CONCEALED CABLING TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE INDUCTIVE LOOP AND OR CONTROL THE GATE.			F
VG4B INDUCTIVE LOOP	PROVIDE A INGROUND INDUCTIVE LOOP FOR THE VG4B EXIT CONNECTED TO THE VG4B ACCESS CONTROL PANEL LOCATED ADJACENT CR-C VIA CONCEALED CABLING TO ALLOW THE ACCESS CONTROL SYSTEM TO OVERRIDE THE INDUCTIVE LOOP AND OR CONTROL THE GATE.			F
LPRVG1	NO LONGER REQUIRED			G
LPRVG2	NO LONGER REQUIRED			G
LPRVG3	NO LONGER REQUIRED			G
LPRVG4	NO LONGER REQUIRED			G
FOB	PROVIDE VG4B WITH A WIRELESS REMOTE READER CONNECTED TO THE VG4B ACCESS CONTROL PANEL LOCATED ADJACENT CR-C VIA CONCEALED CABLING TO ALLOW A WIRELESS REMOTE TO OPEN VG4B VIA THE ACCESS CONTROL SYSTEM. PROVIDE FOUR WIRELESS REMOTES.			F
COMMUNICATIONS PIT 1	PROVIDE COMMUNICATION PIT 1 AS A NEW ACOCABLE MATE TYPE 3 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "COMMS". CONNECT THE COMMUNICATIONS PIT 1 TO THE COMMUNICATIONS PIT 2 WITH A 50 DIA COMMUNICATIONS CONDUIT.			F
COMMUNICATIONS PIT 2	PROVIDE COMMUNICATION PIT 2 AS A NEW ACOCABLE MATE TYPE 3 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "COMMS". CONNECT THE COMMUNICATIONS PIT 1 TO THE POWER PIT 1 WITH A 50 DIA COMMUNICATIONS CONDUIT. CONNECT COMMUNICATIONS PIT 1 TO THE REAR OF THE ROOM HOUSING CR-A WITH TWO 50 DIA CONDUITS TURNED UP 100MM ABOVE THE ENCLOSURE FLOOR AGAINST THE REAR WALL.			F
COMMUNICATIONS PIT 3	PROVIDE COMMUNICATION PIT 3 AS A NEW ACOCABLE MATE TYPE 3 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "COMMS". CONNECT THE COMMUNICATIONS PIT 3 TO THE COMMUNICATIONS PIT 2 WITH A 50 DIA COMMUNICATIONS CONDUIT.			F



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COMMUNICATIONS PIT 4	PROVIDE COMMUNICATION PIT 4 AS A NEW ACOCABLE MATE TYPE 3 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "COMMS". CONNECT THE COMMUNICATIONS PIT 4 TO THE COMMUNICATIONS PIT 3 WITH A 50 DIA COMMUNICATIONS CONDUIT.			F
COMMUNICATIONS PIT 5	PROVIDE COMMUNICATION PIT 5 AS A NEW ACOCABLE MATE TYPE 3 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "COMMS". CONNECT THE COMMUNICATIONS PIT 5 TO THE EXISTING COMMUNICATIONS PIT 6 WITH A 50 DIA COMMUNICATIONS CONDUIT.			F
COMMUNICATIONS PIT 6	EXISTING COMMUNICATION PIT 6 TO BE CONNECTED TO THE REAR OF THE ROOM HOUSING CR-B WITH TWO 50 DIA CONDUITS TURNED UP 100MM ABOVE THE ENCLOSURE FLOOR AGAINST THE REAR WALL.			F
COMMUNICATIONS PIT 7	EXISTING COMMUNICATIONS PIT 7.			F
COMMUNICATIONS PIT 8	PROVIDE COMMUNICATION PIT 8 AS A NEW ACOCABLE MATE TYPE 3 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "COMMS". CONNECT THE COMMUNICATIONS PIT 8 TO THE EXISTING COMMUNICATIONS PIT 7 WITH A 50 DIA COMMUNICATIONS CONDUIT.			F
COMMUNICATIONS PIT 9	PROVIDE COMMUNICATIONS PIT 9 AS A NEW ACOCABLE MATE TYPE 3 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "COMMUNICATIONS". CONNECT THE COMMUNICATIONS PIT 9 TO THE REAR OF THE ROOM HOUSING DB-C WITH TWO 50 DIA CONDUITS TURNED UP 100MM ABOVE THE ENCLOSURE FLOOR AGAINST THE REAR WALL. CONNECT POWER PIT 9 TO COMMUNICATIONS PIT 10 WITH A 50 DIA COMMUNICATIONS CONDUIT.			H
COMMUNICATIONS PIT 10	PROVIDE POWER PIT 10 AS A NEW ACOCABLE MATE TYPE 3 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "POWER".			H
POWER PIT 1	PROVIDE POWER PIT 1 AS A NEW ACOCABLE MATE TYPE 2 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "POWER". CONNECT POWER PIT 1 TO POWER PIT 2 WITH 2 x 50 DIA POWER CONDUITS.			H
POWER PIT 2	PROVIDE POWER PIT 2 AS A NEW ACOCABLE MATE TYPE 3 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "POWER". LOCATE EXTEND AND CONNECT THE TWO 100 DIA EXISTING UNDERGROUND POWER CONDUITS (OLD CONSUMERS MAINS CONDUITS NOW SPARE) FROM BUILDING 56 TO THE POWER PIT 2. CONNECT POWER PIT 2 TO THE REAR OF THE ROOM HOUSING DB-A WITH TWO 50 DIA CONDUITS TURNED UP 100MM ABOVE THE ENCLOSURE FLOOR AGAINST THE REAR WALL.			F
POWER PIT 3	PROVIDE POWER PIT 3 AS A NEW ACOCABLE MATE TYPE 2 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "POWER". CONNECT POWER PIT 3 TO POWER PIT 2 WITH 2 X 50 DIA POWER CONDUITS.			H
POWER PIT 4	PROVIDE POWER PIT 4 AS A NEW ACOCABLE MATE TYPE 2 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "POWER". CONNECT POWER PIT 4 TO POWER PIT 3 WITH 2 X 50 DIA POWER CONDUITS.			H



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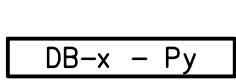




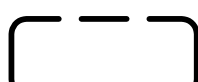







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ELECTRICAL EQUIPMENT SCHEDULE

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TYPE	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
POWER PIT 5	PROVIDE POWER PIT 5 AS A NEW ACOCABLE MATE TYPE 2 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "POWER" CONNECT POWER PIT 5 TO POWER PIT 6 WITH 2 X 50 DIA POWER CONDUITS.			H
POWER PIT 6	EXISTING POWER PIT 6 TO BE CONNECTED TO THE REAR OF THE ROOM HOUSING DB-B WITH TWO 50 DIA CONDUITS TURNED UP 100MM ABOVE THE ENCLOSURE FLOOR AGAINST THE REAR WALL.			F
POWER PIT 7	EXISTING POWER PIT 7			F
POWER PIT 8	PROVIDE POWER PIT 8 AS A NEW ACOCABLE MATE TYPE 3 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "POWER". CONNECT POWER PIT 8 TO POWER PIT 7 WITH 2 X 50 DIA POWER CONDUITS.			H
POWER PIT 9	PROVIDE POWER PIT 9 AS A NEW ACOCABLE MATE TYPE 3 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "POWER". CONNECT THE POWER PIT 9 TO THE REAR OF THE ROOM HOUSING DB-C WITH TWO 50 DIA CONDUITS TURNED UP 100MM ABOVE THE ENCLOSURE FLOOR AGAINST THE REAR WALL. CONNECT POWER PIT 9 TO POWER PIT 10 WITH 2 X 50 DIA POWER CONDUITS.			H
POWER PIT 10	PROVIDE POWER PIT 10 AS A NEW ACOCABLE MATE TYPE 3 PLASTIC PIT C/W RISER AND A CLASS B STEEL LID LABELLED "POWER".			H
WEATHERPROOF POWER OUTLET (WP)	IP54 WEATHERPROOF SINGLE / DOUBLE POWER OUTLET AS NOTED ON DRAWING C/W COVER FLAP OVER SOCKET. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	-	CLIPSAL WSCF227F	F
SINGLE POWER OUTLET	SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	WHITE	CLIPSAL 2000 SERIES	F
DOUBLE POWER OUTLET	DOUBLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	WHITE	CLIPSAL 2000 SERIES	F

LEGEND

	ELECTRICAL SERVICES SWITCHBOARD.
	SINGLE 10A POWER OUTLET.
	DOUBLE 10A POWER OUTLET.
	WEATHERPROOF IP54 RATED DOUBLE 10A POWER OUTLET.
	GATE CONTROLLER.
	CONDUIT ROUTE AND CONDUIT TYPE AS NOTED.
	ELECTRICAL PIT, TYPE AS NOTED.
	POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
	EXHAUST FAN.
	DIGITAL SIGN.
	SIGNAGE OUTLET.
	CCTV / LIGHT POLE.
	ACCESS CONTROL INDUCTIVE LOOP.
	ACCESS CONTROL CARD READER.
	ACCESS CONTROL INTERCOM CALL STATION.
	ACCESS CONTROL MAGENTIC HOLDER.
	ACCESS CONTROL MANUAL KEY.
	ACCESS CONTROL PUSH BUTTON.
	ACCESS CONTROL REMOTE.
	ACCESS CONTROL ELECTRIC STRIKE.

NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES.
- CO-ORDINATION.
- INSPECTIONS.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- COMMUNICATIONS CABLING.
- ACCESS CONTROL.
- ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE ELECTRICAL SERVICES INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

SUPPLY ALL LABOUR, MATERIALS, EQUIPMENT, AND ALL OTHER ITEMS, WHETHER MENTIONED IN DETAIL OR NOT, REQUIRED FOR THE SATISFACTORY COMPLETION OF THE ELECTRICAL SERVICES INSTALLATION, LEAVING IN FULL WORKING ORDER TO THE SATISFACTION OF THE PROJECT MANAGER.

ACCEPT FULL RESPONSIBILITY FOR LIASING, ARRANGING AND CO-ORDINATION ALL WORKS THAT HAVE AN EFFECT ON OR WILL BE AFFECTED BY THE ELECTRICAL SERVICES.

REMOVE ALL OF THE EXISTING ELECTRICAL SERVICES THAT BECOME REDUNDANT DUE TO THE WORKS.

2. WORKMANSHIP

ENSURE THAT THE WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR LICENSE. ENSURE THE INSTALLATION AND ALL COMPONENTS, FIXTURES, FITTINGS, OUTLETS AND CABLES ARE SUPPLIED AND INSTALLED TO A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS. ENSURE ALL MATERIALS AND COMPONENTS OF A SIMILAR TYPE ARE OF THE SAME MANUFACTURER AND INSTALLED IN A UNIFORM MANNER.

IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE INSTALLATION IS FIT FOR PURPOSE AND IS PROVIDED AS A COMPLETE WORKING INSTALLATION. IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL COMPONENTS, FITTINGS, FIXTURES, SYSTEMS, PROGRAMMING ETC IRRESPECTIVE OF THE LEVEL DETAILED IN THE DOCUMENTS SUCH THAT THE INSTALLATION IS PROVIDED AS A COMPLETE WORKING INSTALLATION.

CONCEAL ALL WIRING AND CONDUITS. EXPOSED CABLING OR CONDUITS ARE GENERALLY NOT ACCEPTABLE. IT IS NOTED THAT CHASING AND REINSTATEMENT WILL BE REQUIRED. ENSURE ALL COMPONENTS, EQUIPMENT AND MATERIALS SUPPLIED ARE NEW, UNUSED, DESIGNED AND SELECTED TO ENSURE SATISFACTORY OPERATION UNDER VARYING ATMOSPHERIC, CLIMATIC, HUMID TROPICAL CONDITIONS WITHOUT DISTORTION AND DETERIORATION IN ANY PART AFFECTING EFFICIENCY AND RELIABILITY OF THE SYSTEMS. DESIGN AND SELECT ALL EQUIPMENT TO PROVIDE THE NECESSARY SAFETY TO HUMAN LIFE AND PROPERTY DURING OPERATION AND MAINTENANCE WITH PARTICULAR ATTENTION GIVEN TO ELECTRICAL SAFETY AND SEGREGATION PRECAUTIONS.

CHECK THE FINISHED PAINTWORK AROUND THE AREA OF EACH INSTALLATION AND TOUCH UP ALL DAMAGED PARTS AND FINISHES AFTER THE INSTALLATION OF THE ELECTRICAL SERVICES.

ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDER'S PROGRAM. ENSURE ALL FINAL LOCATIONS OF OUTLETS AND FITTINGS ARE CO-ORDINATED ONSITE WITH THE ARCHITECT AND ALL OTHER SERVICES, TO THE APPROVAL OF THE PROJECT MANAGER. ALLOW TO CO-ORDINATE THE FINAL LOCATION OF ALL EQUIPMENT, FITTINGS, & OUTLETS, SUCH THAT THEY ARE INSTALLED IN ACCORDANCE WITH THE AS3000 RESTRICTED ZONES, AND ARE NOT COVERED INAPPROPRIATELY.

ENSURE THAT ALL METAL SURFACES ARE SUITABLY PROTECTED AGAINST CORROSION, AND THAT ALL PLASTIC MATERIALS ARE UV STABILISED.

PROVIDE ALL MATERIALS AS NEW, AND OF THE HIGHEST CLASS AVAILABLE FOR THEIR RESPECTIVE TYPES. ENSURE ALL ASPECTS OF THE WORK ARE OF A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS.

3. STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE ELECTRICAL SERVICES DOCUMENTS OR IN INSTRUCTIONS, IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL ELECTRICAL SERVICES WORKS ARE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING. REFER ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE FOLLOWING AND/OR THE ELECTRICAL SERVICES DOCUMENTS AND INSTRUCTIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PLACING OF ORDERS, FABRICATION OR INSTALLATION OF THE ITEMS/METHODS IN DISCREPANCY.

- NCC BUILDING CODE OF AUSTRALIA.
- ELECTRICITY ACT.
- ELECTRICAL SAFETY ACT.
- AS/NZS3000.
- AS3008.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT.
- ACMA REQUIREMENTS.

4. AUTHORITIES

ENSURE ALL OF THE ELECTRICAL SERVICES COMPLY WITH THE REQUIREMENTS OF ALL REGULATORY AUTHORITIES HAVING JURISDICTION OVER THE SITE INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- ACMA.
- LOCAL COUNCIL.
- LOCAL SUPPLY AUTHORITY.
- STATE GOVERNMENT DEPARTMENT OF ENVIRONMENT AND HERITAGE.
- QLD GOVERNMENT, DIVISION OF WORKPLACE, HEALTH AND SAFETY.

5. CABLES

UNLESS OTHERWISE SPECIFIED, INSTALL AND TERMINATE CABLES IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. DETERMINE THE FINAL ROUTES TO SUIT THE FENCE STRUCTURE AND SITE CONDITIONS. UNLESS NOTED OTHERWISE, PROVIDE ALL 240 VOLT POWER AND LIGHTING WIRING AS 2.5mm² TWIN & EARTH STRANDED COPPER CONDUCTORS, PVC INSULATED 0.6/1kV V75 GRADE TO AS3174, PROTECTED BY A 20 AMP CIRCUIT BREAKER. ALL CONDUIT AND FITTINGS TO BE RIGID UPVC TO AS2053, UNLESS NOTED OTHERWISE.

NOTES

6. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF THREE LOAD CENTRES DB-A, DB-B AND DB-C ALONG THE FRONT FENCE TO SUPPLY THE FRONT FENCE POWER OUTLETS AND POWER CONNECTIONS. THE NEW LOAD CENTRES ARE TO BE LOCATED IN THE THREE LOCKABLE WEATHER PROOF ROOMS PROVIDED AS PART OF THE BUILDING WORKS. PROVIDE NEW SUBMAINS FROM DB-56 TO SUPPLY DB-A, FROM DB-40 TO SUPPLY DB-B AND FROM MSB-P TO DB-C.

FROM THE NEW DISTRIBUTION BOARDS PROVIDE CIRCUITS TO THE GATE CONTROLLERS, SIGNS, LIGHT POLE, IRRIGATION CONTROLLERS, MAINTENANCE GP0S, DIGITAL SIGN, COMMUNICATIONS RACKS, ACCESS CONTROL EQUIPMENT, FANS AND SPARE GP0S.

PROVIDE EACH OF THE ROOMS WITH A VENTILATION FAN INCLUDING A DOOR GRILL.

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- POWER DISTRIBUTION.
- UNDERGROUND PITS AND CONDUITS.
- EARTHING.
- DISTRIBUTION BOARDS (LOAD CENTRES).
- PE CELL TIME CLOCK CONTROL OF THE SIGN AND LIGHTING CIRCUITS.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.

ENSURE THAT POWER IS MAINTAINED TO THE REMAINING PARTS OF THE SCHOOL THAT ARE NOT PART OF THE WORKS BETWEEN 6.00AM AND 11.00PM. ANY INTERRUPTIONS TO THE POWER SUPPLY MUST BE LIMITED TO LESS THAN FOUR HOURS BETWEEN 11.00PM AND 6.00AM AND THE SCHOOL MUST BE PROVIDED WITH TWO WEEKS NOTICE PRIOR TO THE INTERRUPTION.

7. COMMUNICATIONS

EDC SYSTEMS PTY LTD, 3/40 PROPRIETARY ST, TINGALPA QUEENSLAND 4173 - ROBERT BLAKE 0422796412 PHONE 07 38907068 ROBERT.BLAKE@EDCSYSTEMS.COM.AU ARE TO BE ENGAGED AS A NOMINATED SUB-CONTRACTOR TO THE ELECTRICAL SUB-CONTRACT TO UNDERTAKE THE COMMUNICATIONS CABLING. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES AN INTEGRATED TELEPHONE AND DATA EIA/TIA 568-A CATEGORY 6 MOLEX CERTIFIED RJ45 CABLING SOLUTION.

ALL CAT 6 CABLES ARE TO BE SHIELDED.

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF THREE COMMUNICATION RACKS CR-A, CR-B AND CR-C ALONG THE FRONT FENCE TO HOUSE THE F0BOT AND ACTIVE EQUIPMENT TO BE PROVIDED BY THE SCHOOL. THE NEW COMMUNICATIONS RACKS ARE TO BE LOCATED IN THE THREE LOCKABLE WEATHER PROOF ROOMS PROVIDED AS PART OF THE BUILDING WORKS.

PROVIDE NEW UNDERGROUND LOOSE TUBE GEL FILLED OPTICAL FIBRE CABLES FULLY TERMINATED FROM CORE A TO CR-A AND A FROM CR-40 TO CR-C.

THE EXISTING UNDERGROUND FIBRE CABLE SUPPLYING THE SIGN IS TO BE LOCATED AND REDIRECTED TO A NEW F0BOT IN CR-B. A NEW UNDERGROUND CAT 6 SERVICES IS TO BE PROVIDED FROM CR-B TO THE SIGN.

ALL F0BOTS, OUTLETS AND PATCH PANELS THAT ARE REQUIRED TO TERMINATE THE CABLING PROVIDED AS PART OF THE COMMUNICATIONS CABLING ARE TO BE PROVIDED AS PART OF THESE WORKS. WITHIN ALL CASES IN THIS CONTRACT, CATEGORY 6 AND CAT 6 IS TO BE READ AS CATEGORY 6 CLASS E.

THE TERMS CATEGORY AND CAT ARE USED INTERCHANGEABLY THROUGHOUT THIS CONTRACT TO REFER TO CABLING TYPES AND STANDARDS. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- FIBRE CABLING AND TERMINATIONS.
- F0BOTS.
- COMMUNICATIONS RACKS CR-A, CR-B AND CR-C.
- UNDERGROUND PITS AND CONDUITS.
- CABLING.
- REDIRECTION OF THE EXISTING SIGN FIBRE CABLE TO CR-B.
- NEW CAT 6 UTP SERVICE FROM CR-B TO THE SIGN.
- NEW CAT 6 UTP SERVICES FROM CR-A TO THE POLE.
- INTERCOM DOOR STATIONS.
- INTERCOM IP CONTROLLERS.
- INTERFACE THE INTERCOM IP CONTROLLERS TO THE ACCESS CONTROL SYSTEM.
- TESTING AND COMMISSIONING.

THE SCHOOL WILL PROVIDE THE NETWORK SWITCH, UPS AND PATCH LEADS TO CONNECT THE IT NETWORK TO THE ACCESS CONTROL EQUIPMENT AND INTERCOM IP CONTROLLER.

THE SCHOOL WILL PROVIDE THE CCTV CAMERAS AND LICENCE PLATE READERS.

8. ACCESS CONTROL

DJF SECURITY : DANIEL FARAGO 0451 871 932 dan@djfsecurity.com IS TO BE ENGAGED AS A NOMINATED SUB-CONTRACTOR TO THE ELECTRICAL SUB-CONTRACT TO UNDERTAKE THE ACCESS CONTROL WORKS.

THE ACCESS CONTROL COMPONENT OF THIS CONTRACT INCLUDES THE EXPANSION OF THE SCHOOLS EXISTING INNER RANGE INTEGRITY SECURITY SYSTEM TO PROVIDE ACCESS CONTROL TO THE DUNDAS STREET FENCE GATES. CONNECT THE BUILDING SECURITY EQUIPMENT TO THE EXISTING SYSTEM VIA THE SCHOOLS ETHERNET NETWORK VIA A COLE ETHERNET BRIDGE. THE ETHERNET SETTINGS ARE TO BE COORDINATED WITH THE SCHOOLS IT STAFF. ASSIST THE SCHOOL WITH PROGRAMING AND CONFIGURING THE ACCESS CONTROL SYSTEM. THE NEW ACCESS CONTROL EQUIPMENT PANELS ARE TO BE LOCATED IN THE THREE LOCKABLE WEATHER PROOF ROOMS PROVIDED AS PART OF THE BUILDING WORKS.

CONFIRM THE LOCATION OF THE ACCESS CONTROL PANELS WITHIN THE ADMINISTRATION BUILDING ON SITE WITH THE SCHOOL AND EXTENDING THE EXISTING POWER CIRCUIT TO A NEW GPO AS NECESSARY. THE SECURITY SYSTEM COMPONENT OF THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

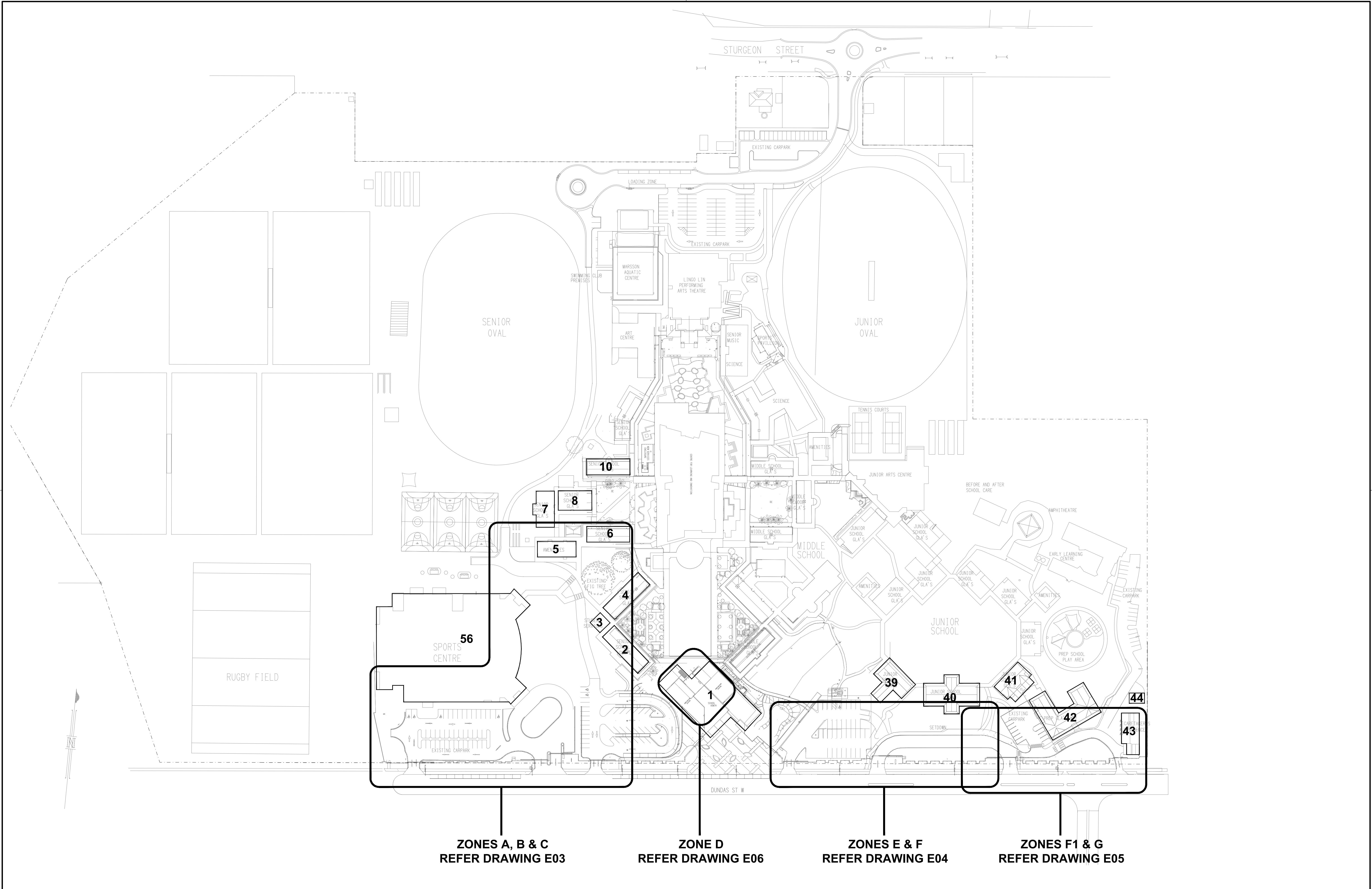
ACCESS CONTROL SYSTEM POWER SUPPLIES.

- DOOR CONTROLLERS.
- EARTHING.
- COLE ETHERNET BRIDGES.
- CARD READERS.
- DOOR CONTROLLERS.
- MAGNETIC HOLDERS.
- UNDERGROUND PITS AND CONDUITS.
- CABLING.
- MOUNTING BRACKETS AND BOLLARDS.
- INTERFACE TO THE INTERCOM SYSTEMS.
- INTERFACE TO THE GATE CONTROLLERS.
- INTERFACE TO THE ELECTRIC STRIKES PROVIDED AS PART OF THE SWING GATES.

PROVIDE CUSTOM FACEPLATES TO MOUNT THE USER INTERFACE POINTS ON INCLUDING CARD READERS, INTERCOM DOOR STATIONS, PUSH BUTTONS AND MANUAL KEYS.

PROVIDE INGROUND INDUCTIVE LOOPS, PUSH BUTTONS, FOB READER AND MANUAL KEY SELECTOR SWITCHES INTERFACED DIRECTLY TO THE ACCESS CONTROL SYSTEM. THE GATE CONTROLLER IS TO ONLY BE CONTROLLED BY THE ACCESS CONTROL SYSTEM.

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E	CONSTRUCTION	20/11/2024															
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SCALE: NOT TO SCALE AT A1	PROJECT NO: C2642a	DRAWING NO: E01	REVISION: E														

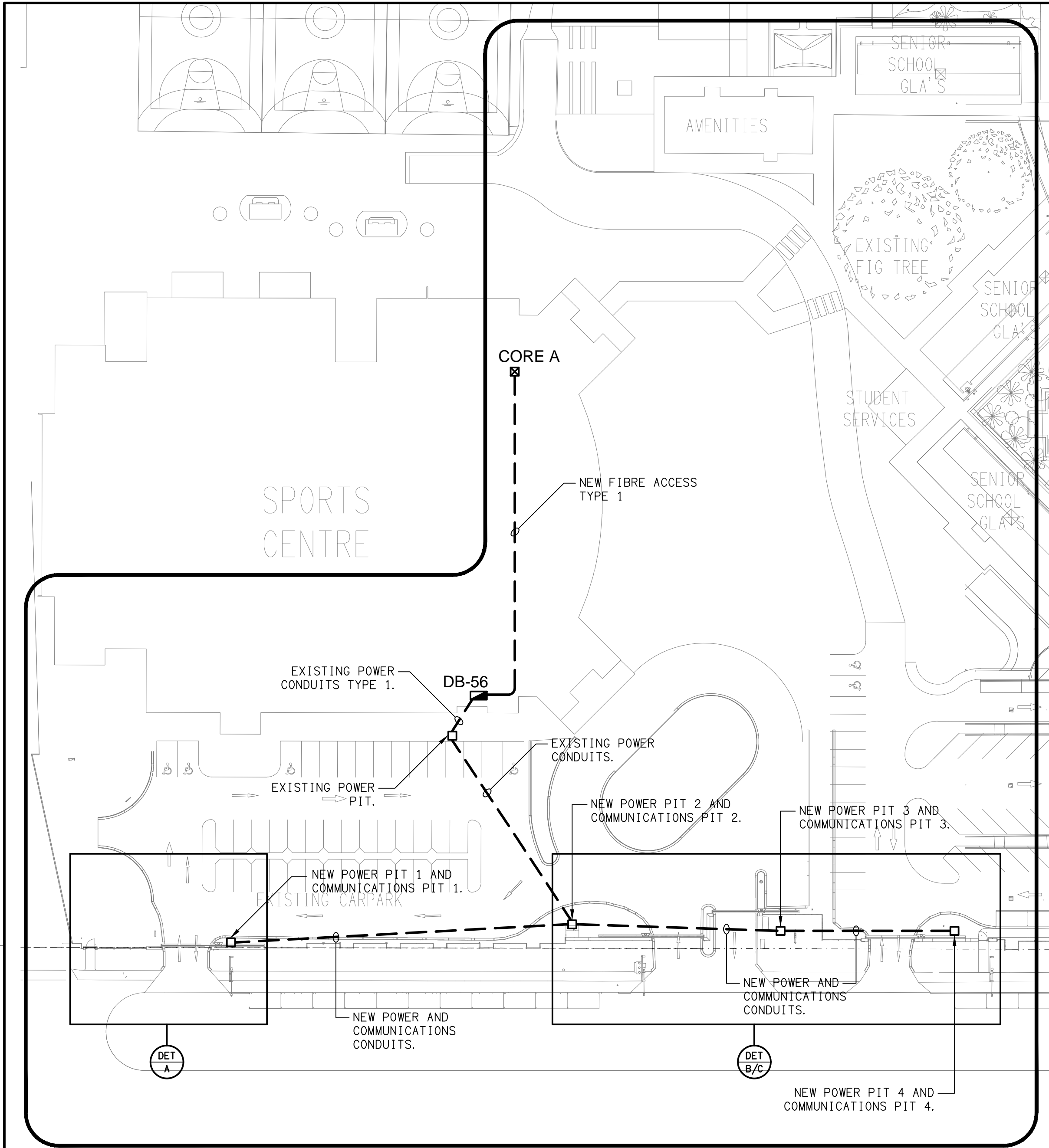


**ZONES A, B & C
REFER DRAWING E03**

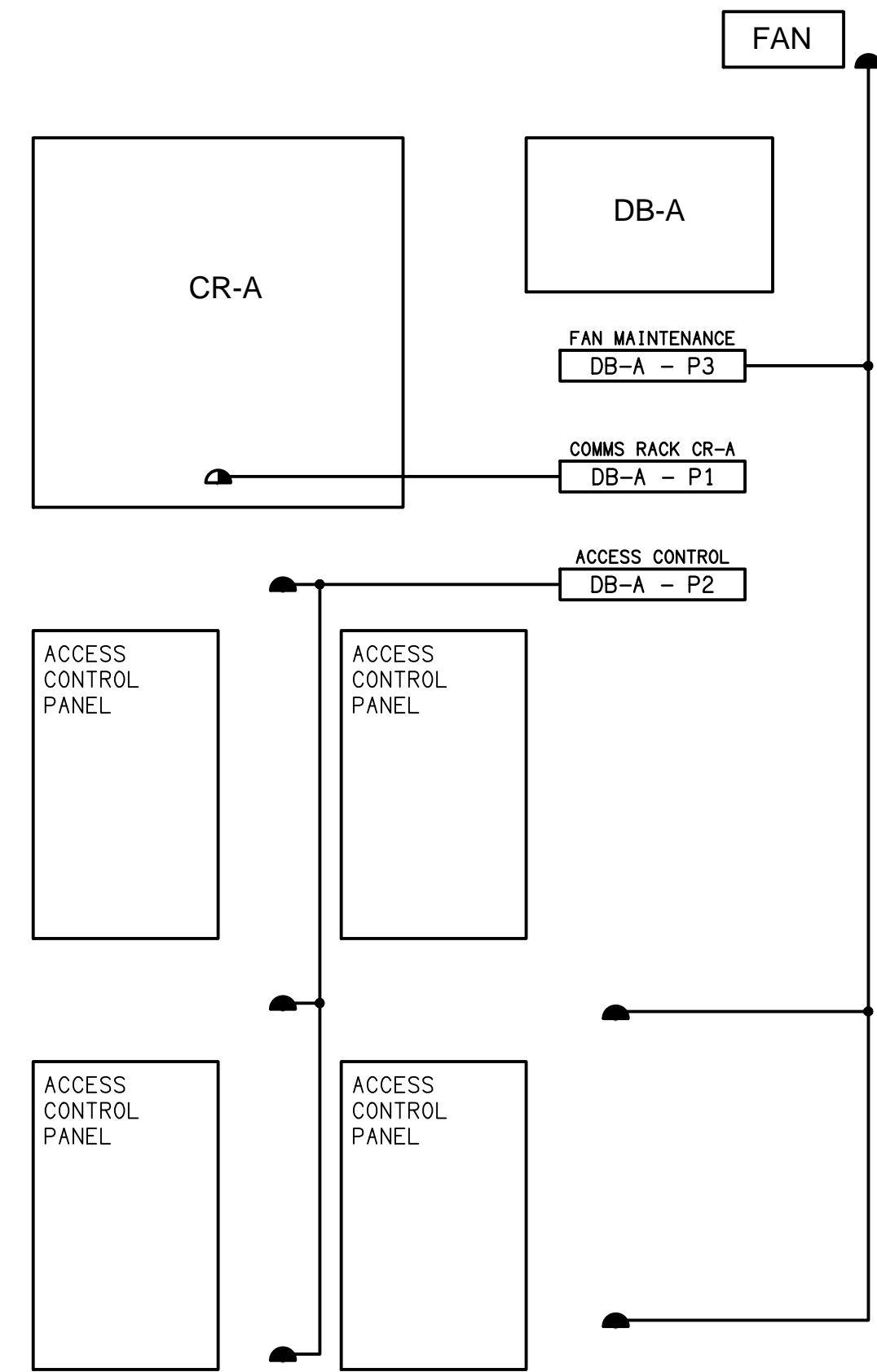
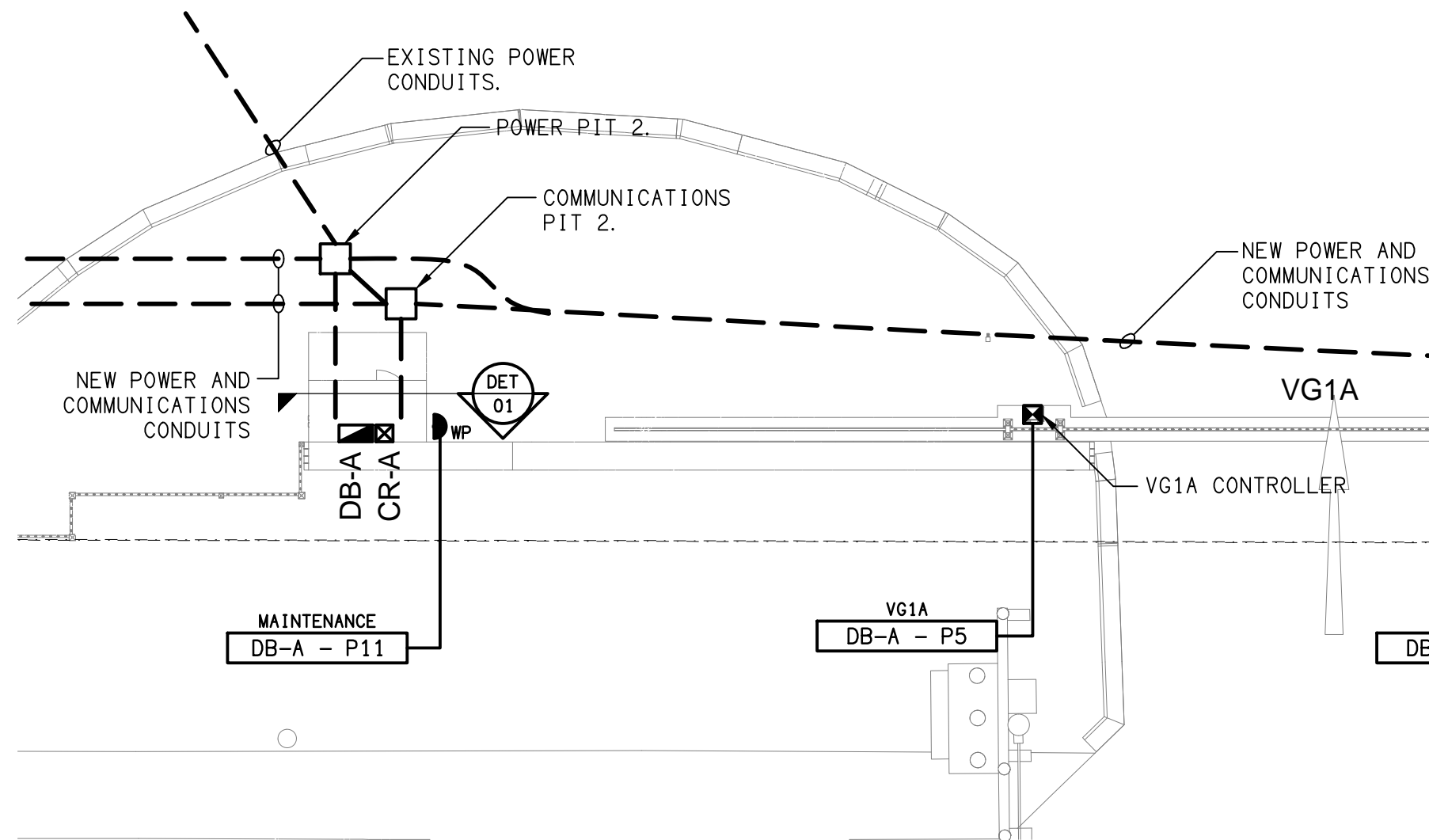
**ZONE D
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**ZONES E & F
REFER DRAWING E04**

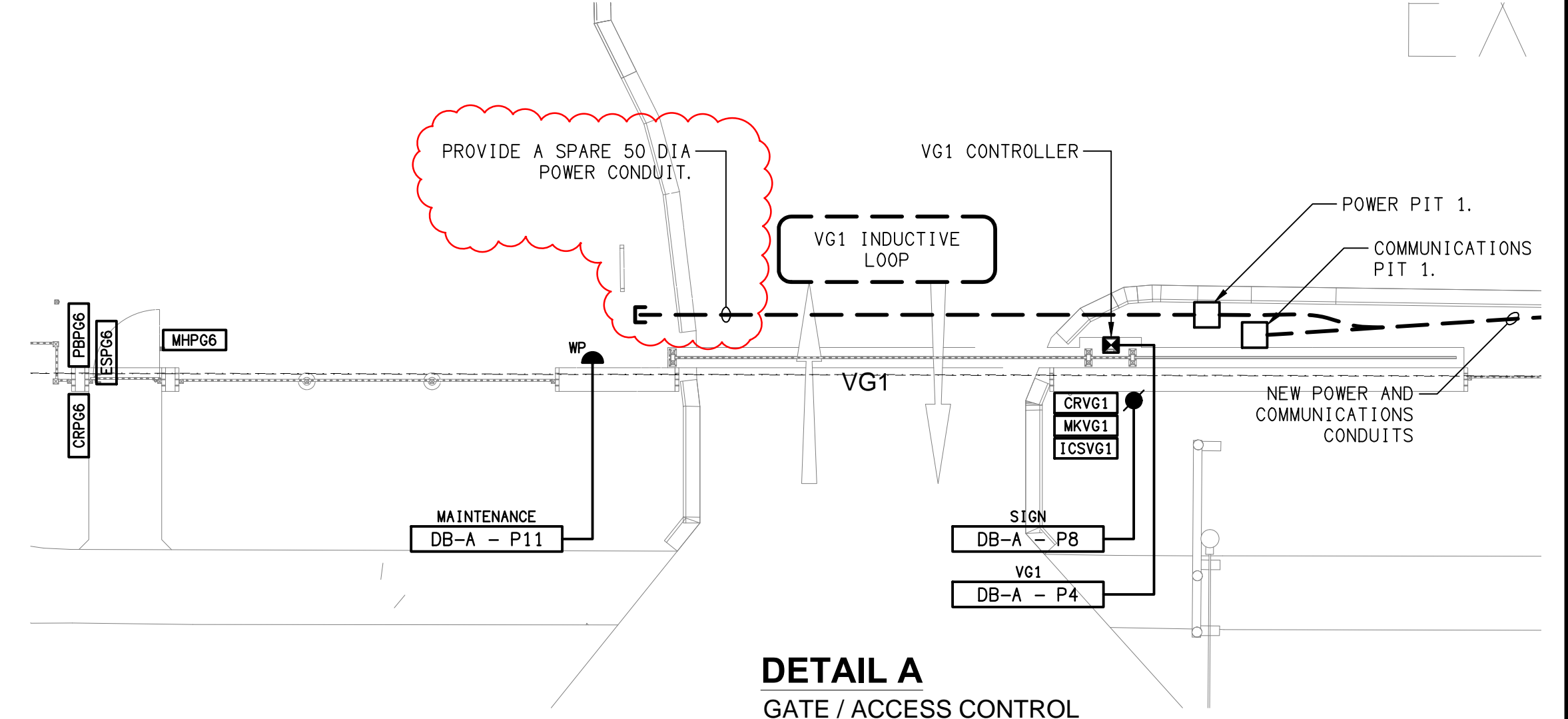
**ZONES F1 & G
REFER DRAWING E05**



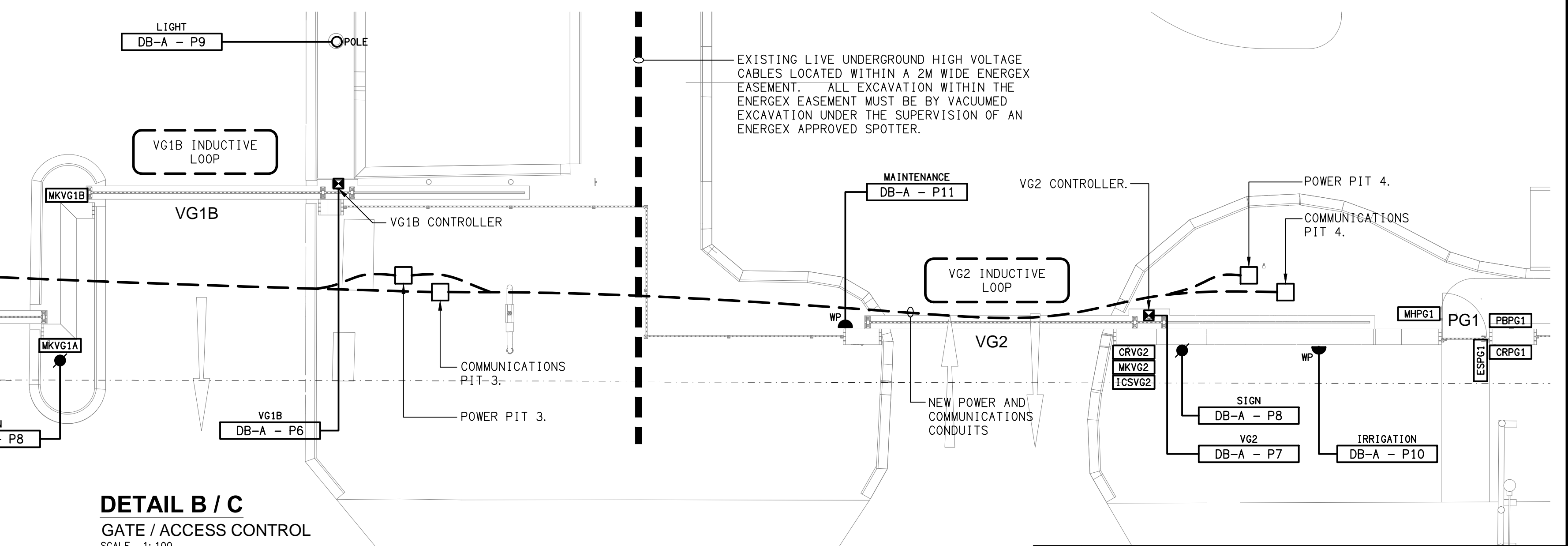
ZONE A, B & C
GATE / ACCESS CONTROL
SCALE 1: 500



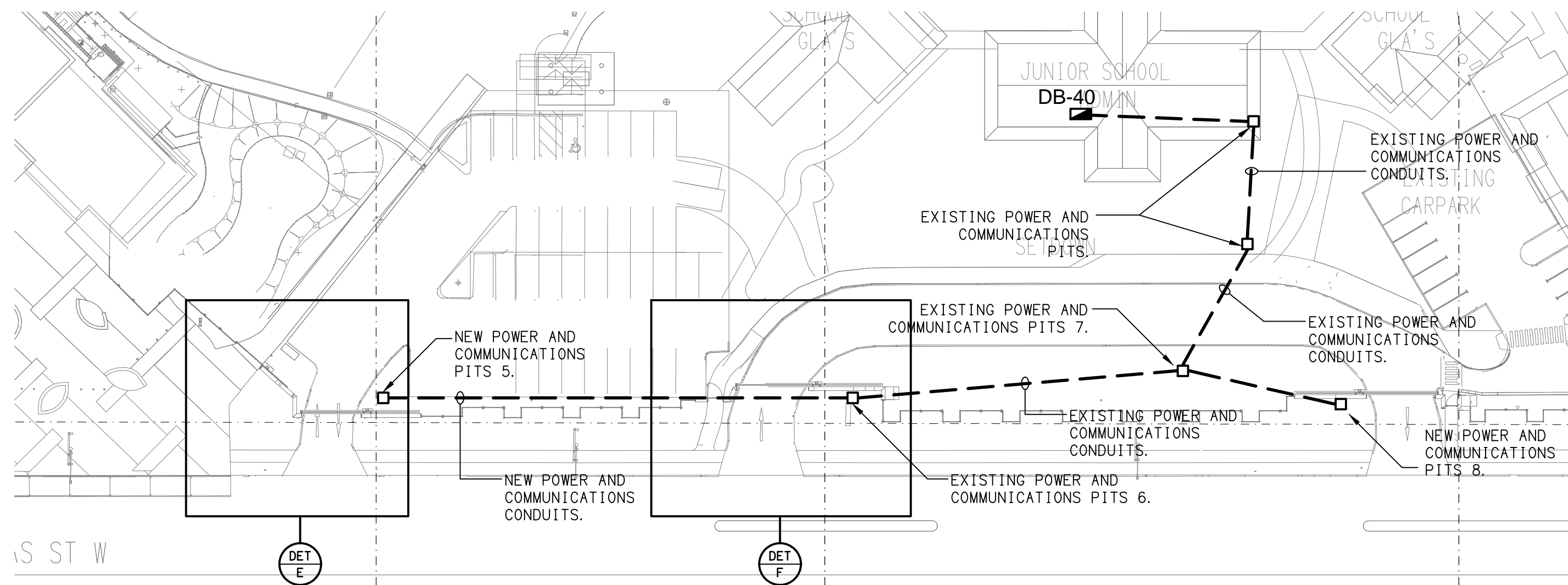
DETAIL 01
CR-A / DB-A ELEVATION
NOT TO SCALE



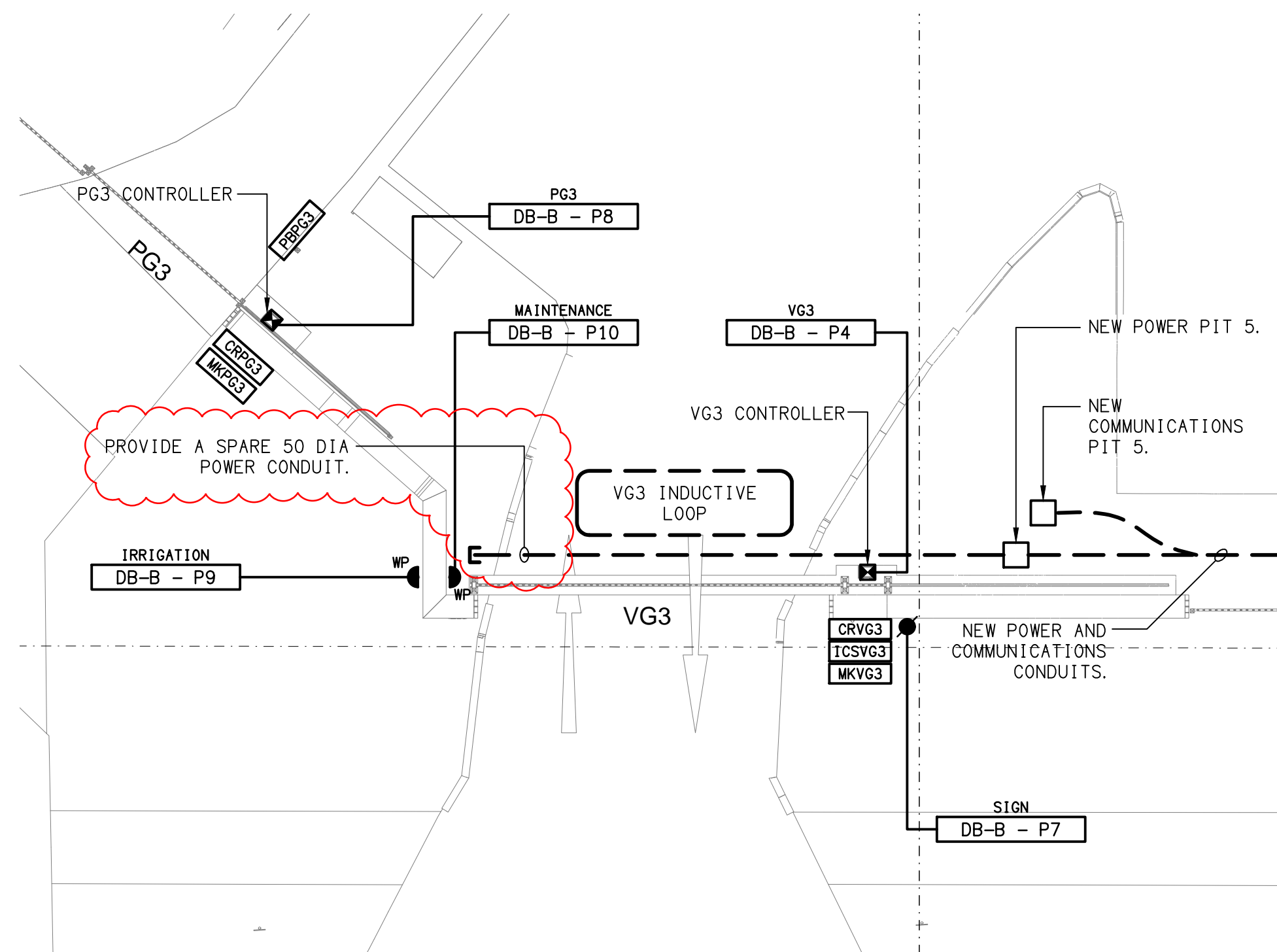
DETAIL A
GATE / ACCESS CONTROL
SCALE 1: 100



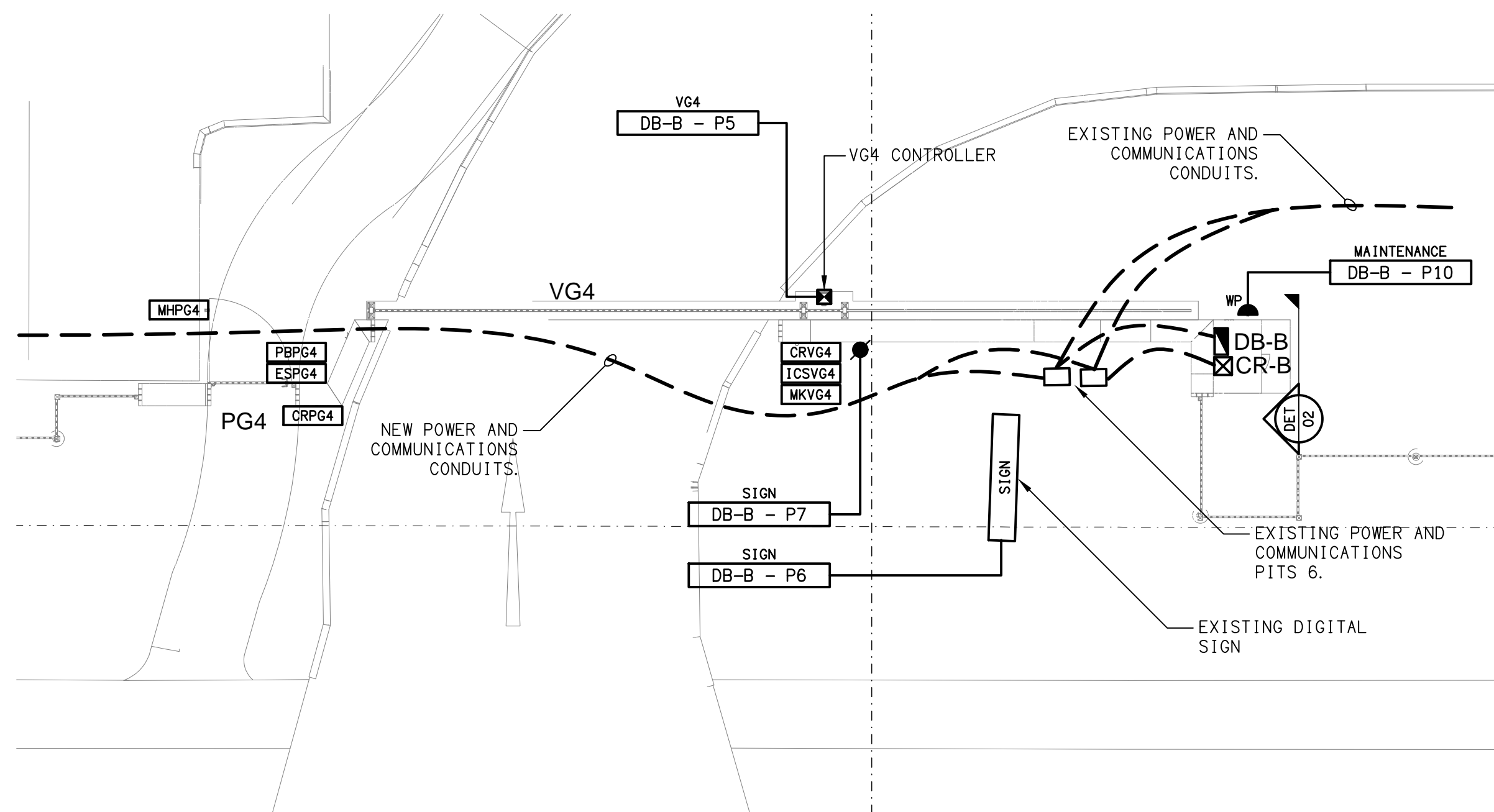
DETAIL B / C
GATE / ACCESS CONTROL
SCALE 1: 100



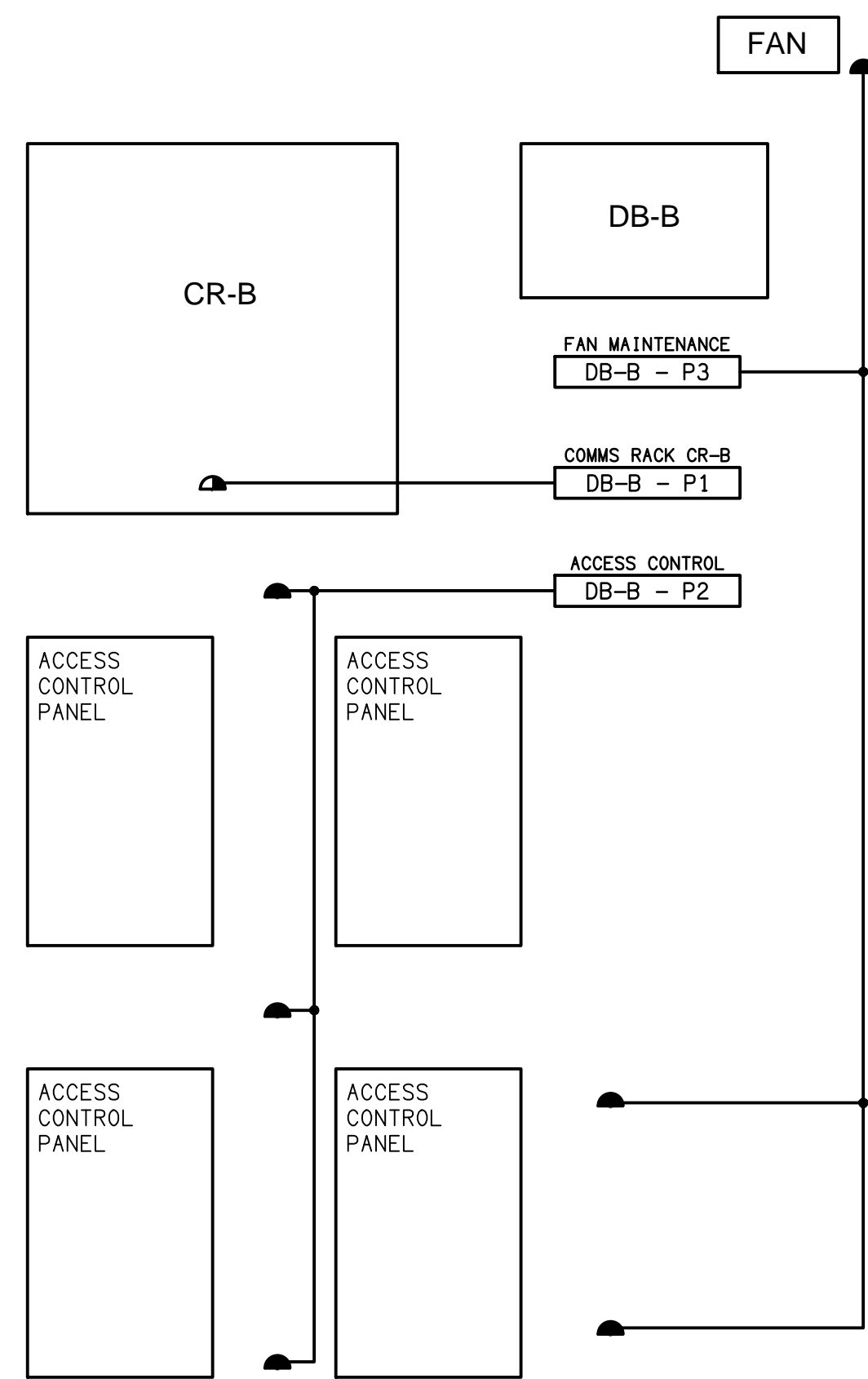
ZONE E & F
GATE / ACCESS CONTROL
SCALE 1: 500



DETAIL E
GATE / ACCESS CONTROL
SCALE 1: 100



DETAIL F
GATE / ACCESS CONTROL
SCALE 1: 100



DETAIL 02
CR-B / DB-B ELEVATION
NOT TO SCALE

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PROJECT:
**ORMISTON COLLEGE
FENCING MASTERPLAN**

97 DUNDAS STREET WEST, ORMISTON

F	CONSTRUCTION	25/11/2024
REV:	DESCRIPTION:	DATE:

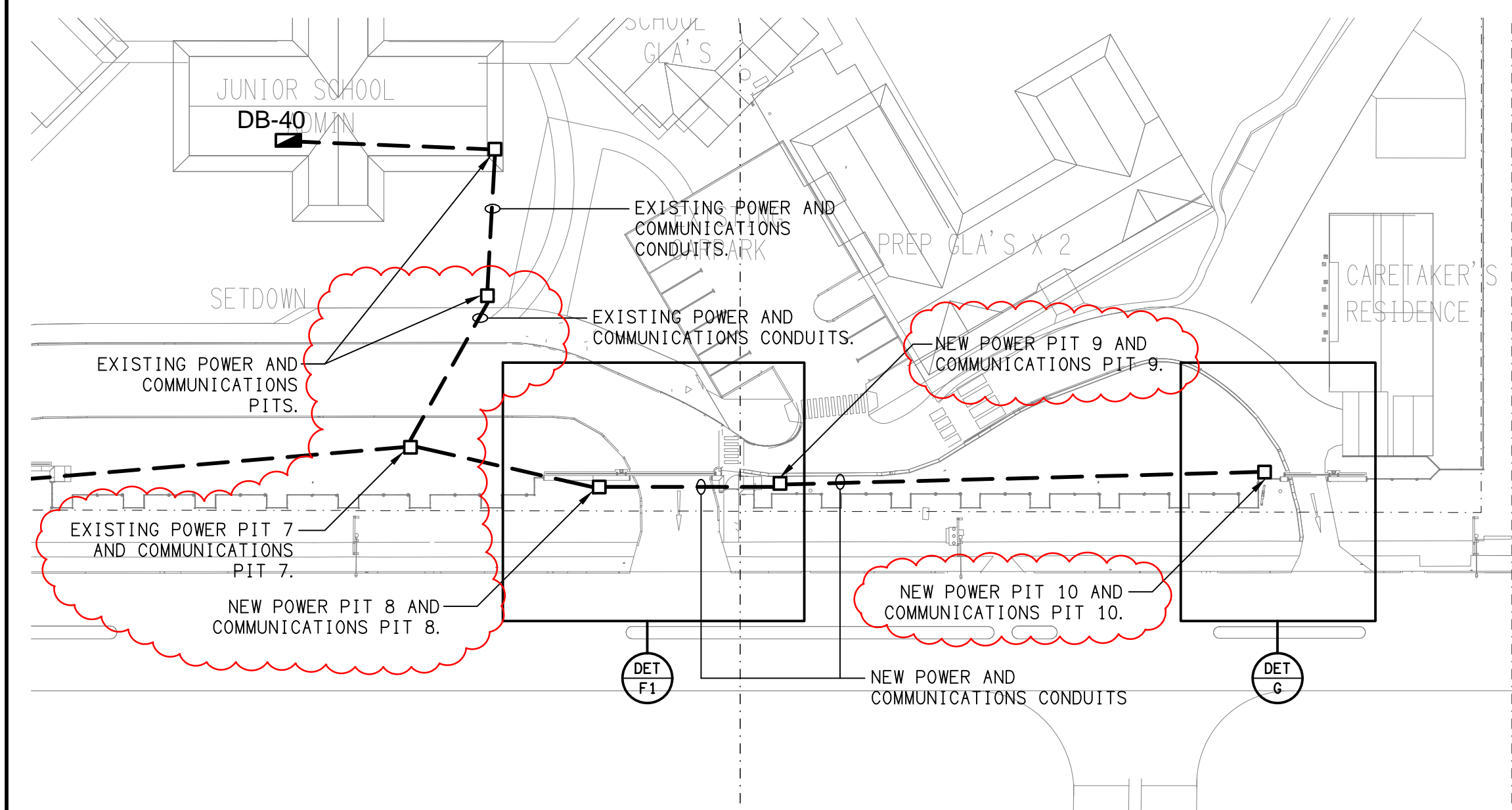
DRAWING:
**ELECTRICAL SERVICES
ZONE E & F PLANS**

SCALE:
1:500 & 1:100 AT A1

PROJECT NO:
C2642a

DRAWING NO:
E04

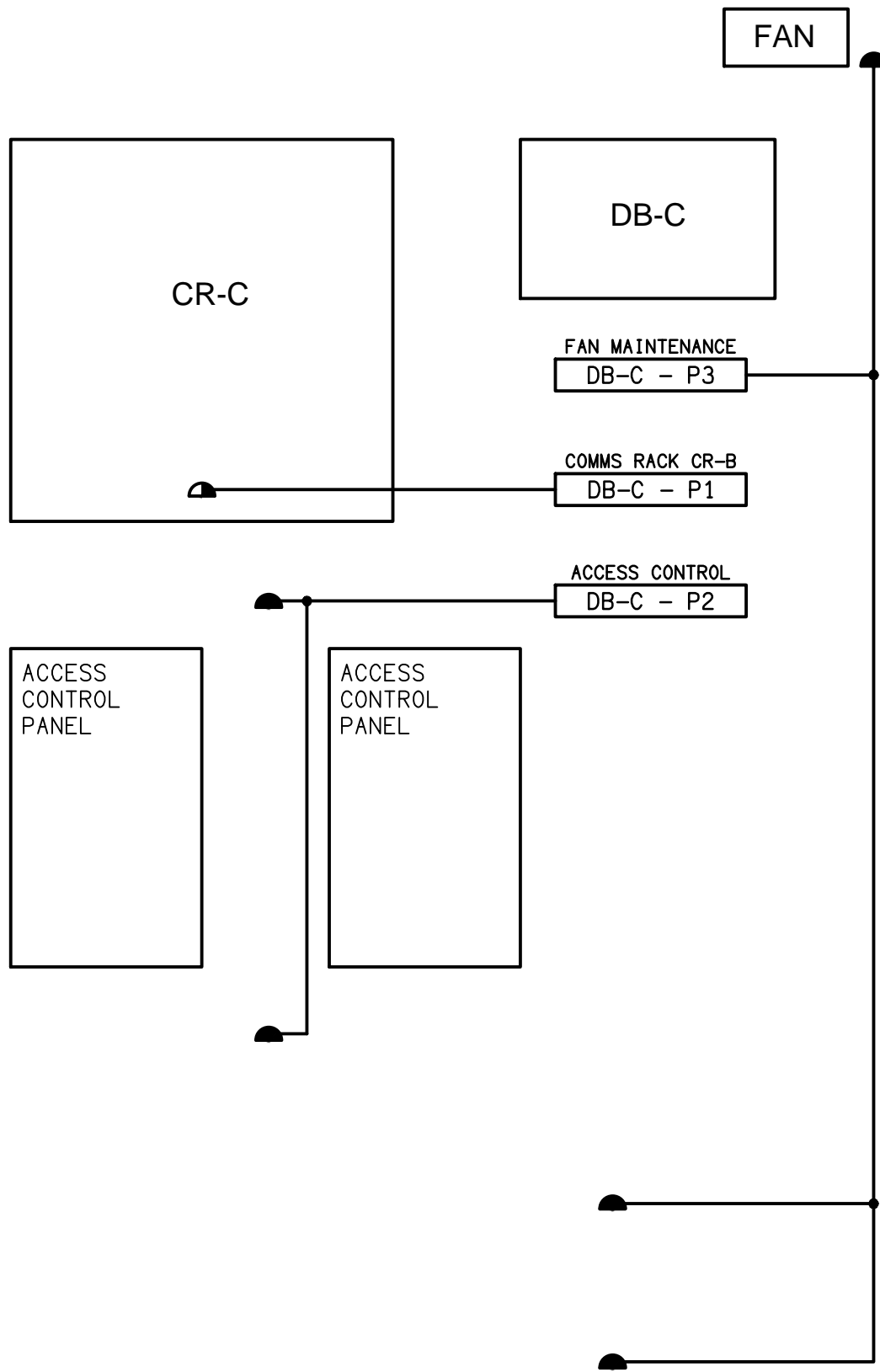
REVISION:
F



ZONE F1 & G

GATE / ACCESS CONTROL

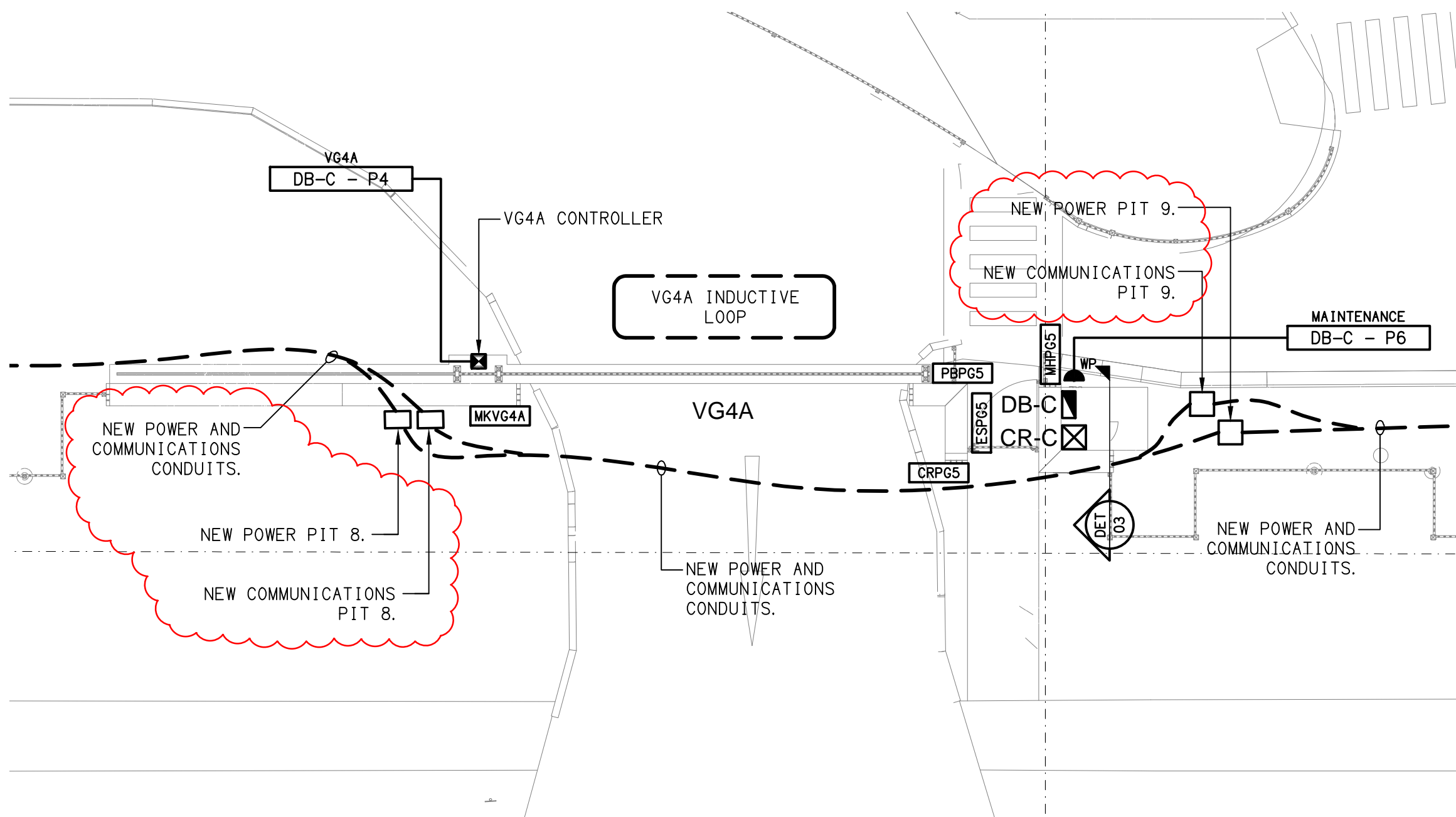
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DETAIL 03

CR-C / DB-C ELEVATION

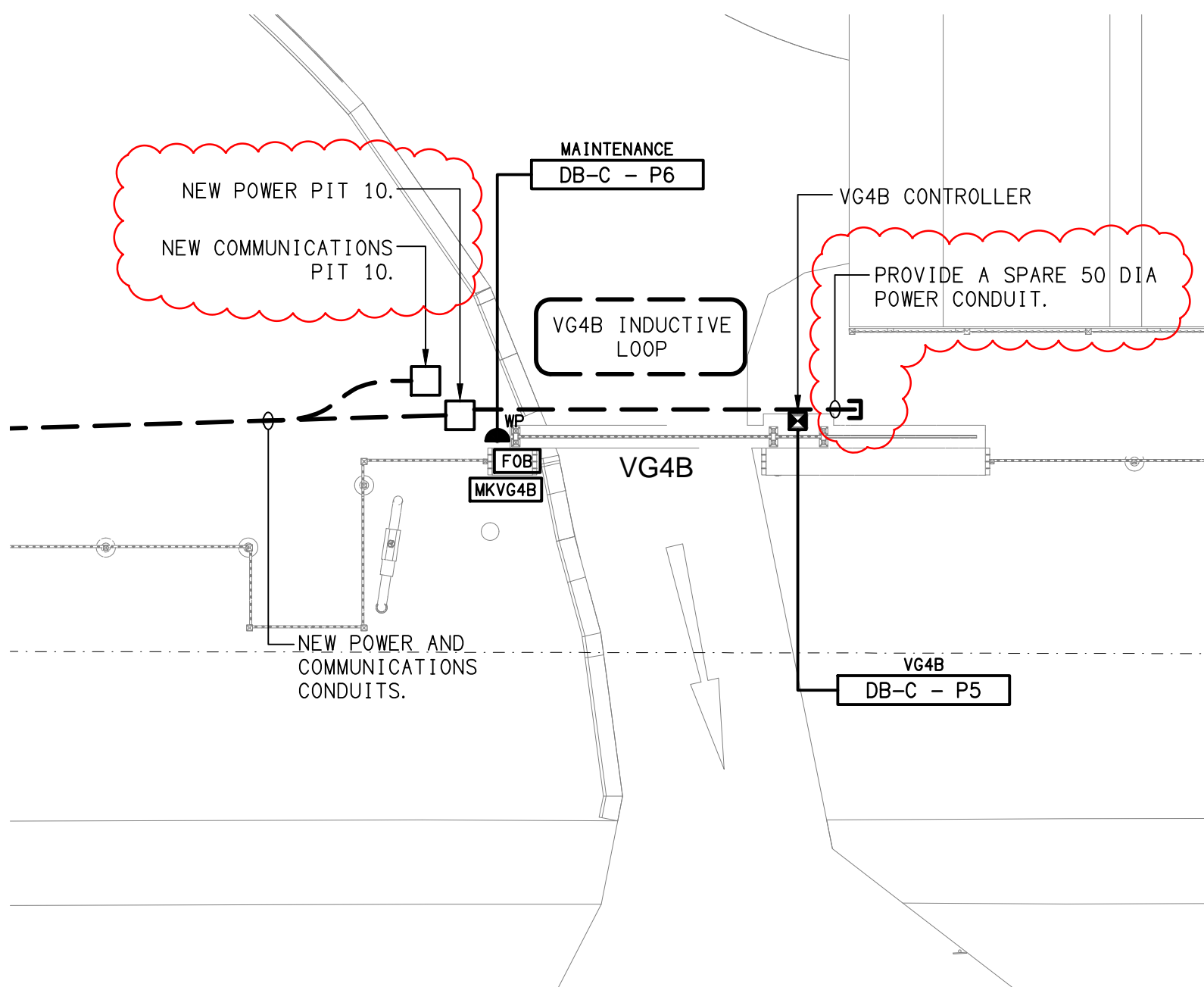
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DETAIL F1

GATE / ACCESS CONTROL

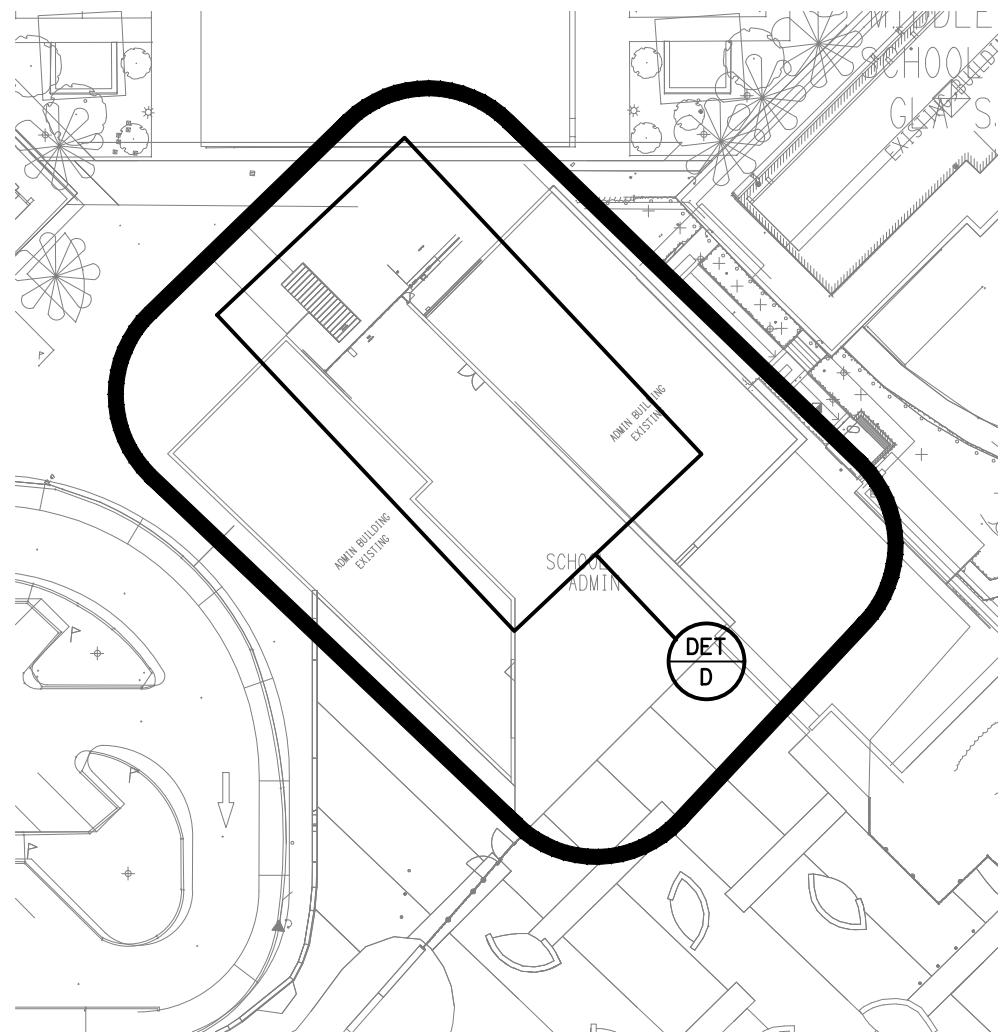
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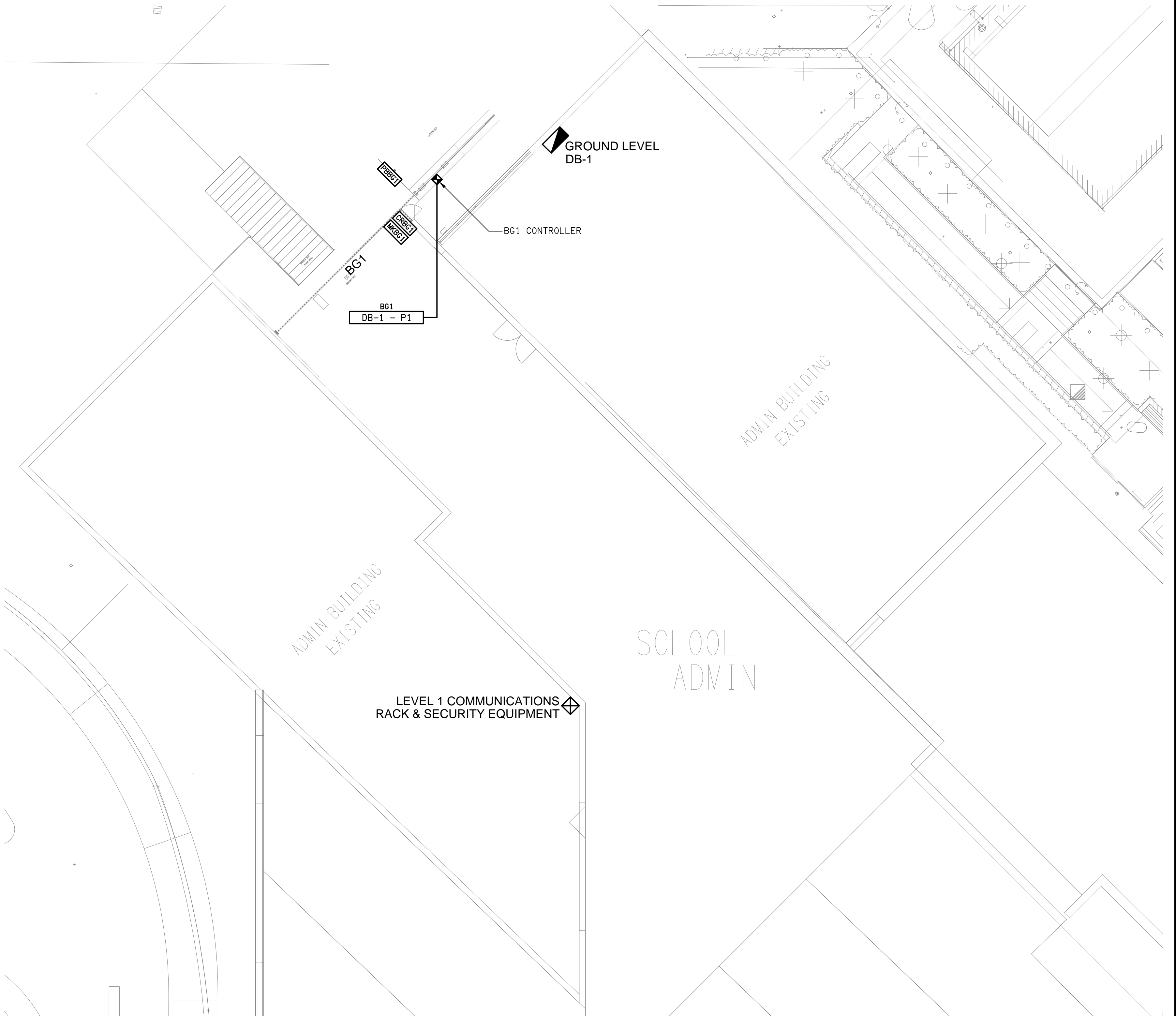
DETAIL G

GATE / ACCESS CONTROL

SCALE 1:100



ZONE D
GATE / ACCESS CONTROL
SCALE 1: 500



DETAIL D
GATE / ACCESS CONTROL
SCALE 1: 100

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PROJECT:
**ORMISTON COLLEGE
FENCING MASTERPLAN**
97 DUNDAS STREET WEST, ORMISTON

E	CONSTRUCTION	20/11/2024
REV:	DESCRIPTION:	DATE:
DRAWING: ELECTRICAL SERVICES ZONE D PLANS		
SCALE: 1:500 & 1:100	AT A1	PROJECT NO: C2642a
		DRAWING NO: E06
		REVISION: E