

ELECTRICAL NOTES & SYMBOL LEGEND		SYMBOLS SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS		ELECTRICAL SHEET INDEX
MEP COMPONENT ANCHORAGE NOTES	GENERAL NOTES	ELECTRICAL ABBREVIATIONS		ELECTRICAL DEVICES & EQUIPMENT
1. ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022CBC, SECTIONS 1617A.1.16 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30. A. ALL PERMANENT EQUIPMENT AND COMPONENTS. B. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC GAS OR WATER, "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE. C. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY OSA. 2. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BEPOSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGNCOMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL. 3. THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL. IN GENERAL, RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY OSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS. UL LISTINGS NOTE ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY. ALL EQUIPMENT/DEVICES INSTALLED RECESSED IN FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED UL LISTED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL. DEVICE LOCATION NOTE THE LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATIONS. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN, UNLESS OTHERWISE NOTED. ELECTRICAL DEVICES SHALL BE MOUNTED PER "ACCESSIBLE DEVICE MOUNTING HEIGHT" DETAIL. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT, DISCONNECT SWITCHES, STARTERS, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.	1. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BY SUBMITTING A BID. ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK, AND SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, CEC, ALL STATE AND LOCAL CODES AND AMENDMENT 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS AND ADDENDA (DRAWINGS AND SPECIFICATIONS.) HE SHALL CHECK THE CONTRACT DOCUMENTS OF THE OTHER TRADES AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLETING ALL RESPONSIBLE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. 3. THE CONTRACTOR SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES. 4. ALL ELECTRICAL WORK REFERENCED HEREIN SHALL BE COORDINATED WITH OTHER TRADES AND SITE CONDITIONS. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE CONTRACT DOCUMENTS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER. 5. PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS, BRANCH CIRCUITS, OR SIGNAL AND COMMUNICATIONS SYSTEMS BEING DISCONNECTED TO MAINTAIN SYSTEMS IN OPERATION. 6. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER AND ENGINEER 14 DAYS PRIOR TO THE OUTAGE, AND OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANEL BOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS. 7. AFTER ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNERS WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE. 8. FURNISH A ONE-YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF PUNCH LIST COMPLETION. 9. ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR. 10. THE EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONRY WALLS, GRADE BEAMS, FLOORS, OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAW CUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SET MED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR, OR CEILING. THE EXACT METHOD AND LOCATION OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED. 11. FINAL CONNECTIONS TO VIBRATING EQUIPMENT AND AT SEISMIC SEPARATIONS SHALL BE FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS, AND LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS. 12. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE, AND CONNECTION METHODS IN HVAC AIR PLENUMS SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE. 13. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE. 14. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED WALLS, OR 2" MINIMUM BELOW SLAB ON GRADE UNLESS NOTED OTHERWISE. 15. LOCATE ELECTRICAL EQUIPMENT AND BOXES IN ACCESSIBLE CEILING SPACE OR PROVIDE AN ACCESS PANEL FOR INACCESSIBLE CEILING SYSTEMS. ACCESS DOORS SHALL BE A MINIMUM DIMENSION OF 24" X 24" ACCESS DOOR LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED. 16. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILINGS TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED. 17. WHENEVER A DISCREPANCY OF ANY SYSTEM AND/OR EQUIPMENT ARISES ON THE CONTRACT DOCUMENTS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER. 18. STRAIGHT FEEDER BRANCH CIRCUIT AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. 19. PANEL SCHEDULES SHALL BE REVISED TO REFLECT FINAL ROOM NAMES AND NUMBERS USING THE OWNER'S ROOM NAMES AND NUMBERS DESIGNATIONS. CONTRACTOR TO PROVIDE FINAL PANEL SCHEDULE TO EEOB AT COMPLETION OF PROJECT. 20. WHERE OUTLETS OCCUR AT TACKABLE WALL PANELS OR OTHER WALL FINISHES, PROVIDE EXTENSION RINGS AS REQUIRED SO THAT NO SPACE WILL EXIST BETWEEN DEVICE PLATE AND BACKBOX PER CALIFORNIA ELECTRICAL CODE 314.20. SEE ARCHITECTURAL ELEVATIONS FOR WALL FINISHES AND LOCATIONS. 21. COORDINATE LOCATIONS OF ALL SEISMIC SEPARATIONS. 22. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF ALL LOW VOLTAGE / TECHNOLOGY SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. CABLING CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT. 23. ALL AC POWER CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM TECHNOLOGY LOW VOLTAGE CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN. 24. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES REQUIRED TO INSTALL COMMUNICATION CABLING THROUGH RATED WALLS. ALL TECHNOLOGY SYSTEM CONDUIT SLEEVES SHALL HAVE PROTECTIVE BUSHINGS ON BOTH ENDS, BE DEDICATED FOR TECHNOLOGY SYSTEMS ONLY, AND SHALL NOT SHARE WITH OTHER BUILDING TRADES. 25. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS. 26. ALL CONDUCTORS SHALL BE UL LISTED, COPPER #12 MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY, UNLESS NOTED OTHERWISE. 27. ALL CABLING SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH MAXIMUM 40% CABLE FILL. MINIMUM CONDUIT SIZE SHALL BE 3/4" INTERIOR & 1" EXTERIOR. 28. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. 29. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST. OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE. 30. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT. 31. CIRCUITING: A. BRANCH CIRCUITING IS EXHASTIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL, NOT METHODS OF INSTALLATION. REFER TO SPECIFICATIONS FOR METHODS OF INSTALLATION AND MATERIALS, INCLUDING WHETHER OR NOT BX IS ALLOWED AND WHETHER "THROUGH-FIXTURE" OR "OCTOPUS" (EMT WITH FLEXIBLE WHIPS) TYPE LIGHTING BRANCH CIRCUITING IS REQUIRED. B. WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANELSCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED. C. BRANCH CIRCUITS ON THE DRAWINGS ARE GENERALLY NOT SHOWN GROUPED IN SINGLE RACEWAYS. HOWEVER, GROUPINGS ARE ALLOWED UNDER CERTAIN CONDITIONS. REFER TO DIVISION 26 SPECIFICATIONS UNDER SECTION ENTITLED "ELECTRICAL WIRING" FOR REQUIREMENTS. D. THE DRAWINGS GENERALLY INDICATE QUANTITY OF CONDUCTORS ON BRANCH CIRCUIT HOME RUNS ONLY. ELSEWHERE WITHIN CIRCUITS, PROVIDE QUANTITY OF CONDUCTORS AS NEEDED TO ACCOMPLISH CIRCUITING AND SWITCHING REQUIREMENTS SHOWN. 32. WHEN REMOVING EXISTING ELECTRICAL WORK WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY. 33. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER; HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER. 34. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO, ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC. 35. CONTRACTOR SHALL FIELD VERIFY EXISTING BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL THE NEW LOAD INTO THAT CIRCUIT. 36. CONTRACTOR TO REFER TO ARCHITECTURAL PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF SCOPE OF PROJECT PRIOR TO COMMENCEMENT OF WORK. 37. LUMINAIRE SUPPORT IN SUSPENDED CEILINGS: A. PROVIDE MEANS OF SUPPORT FOR LUMINAIRES PER NEC 410-16. T BAR CLIPS SHALL BE INSTALLED ON THE LUMINAIRE AND SHALL BE FIELD SECURED TO THE INVERTED CEILING TEES SO THAT THE LUMINAIRE IS SECURELY FASTENED TO THE CEILING SYSTEM FRAMING MEMBERS. B. CEILING TILES SHALL NOT BEAR THE WEIGHT OF LUMINAIRES. SURFACE MOUNT LUMINAIRES, RECESSED DOWNLIGHTS, LIGHT TRACK, EXIT SIGN, ETC. SHALL BE SUPPORTED BY PROPER FRAMES OR OTHER ATTACHMENT TO MAIN CEILING SYSTEM GRID OR BUILDING STRUCTURE ABOVE CEILING. C. LUMINAIRE SHALL BE CENTERED IN CEILING TILE. D. LUMINAIRE SHALL HAVE FLANGE OR TRIM RING FOR CLOSURE OF CEILING CUTOUT OR OPENING. E. FIRE-RATED CEILING ASSEMBLY FOR LUMINAIRES TO BE FLUSH-MOUNTED INTO A FIRE-RATED CEILING OR SURFACE MOUNTED TO A FIRE-RATED CEILING. INSTALL WITH INDEPENDENT, SECURE SUPPORT RACEWAY, CABLE ASSEMBLIES, BOXES AND FITTINGS LOCATED ABOVE A FIRE-RATED FLOOR/CEILING OR ROOF CEILING ASSEMBLY SHALL NOT BE SECURED TO, OR SUPPORTED BY, THE CEILING ASSEMBLY INCLUDING THE CEILING SUPPORT WIRES. PROVIDE AN INDEPENDENT MEANS OF SECURE SUPPORT. INDEPENDENT SUPPORT WIRES SHALL BE DISTINGUISHABLE BY COLOR, TAGGING, OR OTHER EFFECTIVE MEANS FROM THOSE THAT ARE PART OF THE FIRE-RATED DESIGN. 38. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING UNDERGROUND PIPING, WIRING OR OTHER FACILITIES PRIOR TO TRENCHING, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY INSTALLATION OF NEW WORK.	ABBREVIATION DESCRIPTION A OR AMP AMPERES ABV ABOVE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISH GRADE AIC ABOVE INTERRUPTING CAPACITY AL ALUMINUM AS DISCONNECT SWITCH SIZE RATING ATS AUTOMATIC TRANSFER SWITCH AUX AUXILIARY AWG AMERICAN WIRE GAUGE B.S. BARE STRANDED BKBD BACKBOARD BKR BREAKER BLDG BUILDING BLR CONDUIT C.O. CONDUIT ONLY WITH PULL WIRE CB CIRCUIT BREAKER CKT CIRCUIT CLG CENTER LINE CLG.C. COLUMN CU COPPER DIS DISCONNECT DWG DISTRIBUTION PANEL DRG DRAINAGE EACH EACH ELEC ELECTRICAL EMH ELECTRICAL MANHOLE EMT REQUIRED ELECTRICAL METALLIC TUBING EPO EMERGENCY POWER OFF EQ EQUIPMENT FA FIRE ALARM FACP FIRE ALARM CONTROL PANEL FATC FIRE ALARM TERMINAL CABINET FF FINISHED FLOOR FLA FULL LOAD AMPS FIBER FBTC FIBER OPTIC FEET FEET GFI GROUND FAULT INTERRUPTER GFR GROUND FAULT RELAY GND GROUND HP HOUSEPOWER HTR HEATER HY HIGH VOLTAGE ISC SHORT CIRCUIT CURRENT KMIL THOUSAND CIRCULAR MILS KV KILOVOLT KVA KILOVOLT-AMPERES KW KILOWATT LF LINEAR FEET LIS LOAD INTERRUPTER SWITCH LOC LOCATION LTG LIGHTING ABBREVIATION DESCRIPTION LV LOW VOLTAGE MAX MAXIMUM MCA MINIMUM CIRCUIT AMPS MCC MOTOR CONTROL CENTER MFR MANUFACTURER MANH MANHOLE NIC NOT IN CONTRACT MOCP MAXIMUM OVERCURRENT PROTECTION MTD MOUNTED MTG MOUNTING MV MEDIUM VOLTAGE NAC NOTIFICATION APPLIANCE CIRCUIT NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEF NOT FUSED NO NOT IN CONTRACT NO NUMBER OC ON CENTER OD OUTSIDE DIAMETER PB PULL BOX PC PHOTOCELL PH OR Ø PHASE PIV POST INDICATING VALVE PNL PANEL POC POINT OF CONNECTION PRM PRIMARY PVC POLY-VINYL CHLORIDE PWR POWER RECEPTECE RECEPTACLE REQD REQUIRED RSG RIGID GALVANIZED STEEL RFBP REDUCED PRESSURE BACK FLOW PREVENTER SF SQUARE FEET SP SPARE SPECS SPECIFICATIONS STD STANDARD SWB SWITCH SWBD SWITCHBOARD TB TERMINAL BLOCK TEL TELEPHONE TPS TWISTED SHIELDED PAIR TRANS/XFMR TRANSFORMER TYP TYPICAL UG UNDERGROUND UNO UNLESS NOTED OTHERWISE V VOLTS VA VOLT-AMPERES VFD VARIABLE FREQUENCY DRIVE W WATTS WP WEATHERPROOF Z IMPEDANCE SHEET OR DETAIL REFERENCE - NUMBER ON TOP INDICATES DETAIL NUMBER - NUMBER ON BOTTOM INDICATES SHEET NUMBER MECHANICAL EQUIPMENT CALLOUT SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS KEY NOTE	① JUNCTION BOX 20A MOTOR-RATED TOGGLE SWITCH 20A-125V DUPLEX RECEPTACLE 20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE 20A-125V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP 20A-125V CONTROLLED PLUS-LOAD DUPLEX RECEPTACLE 20A-125V ISOLATED GROUND TYPE DUPLEX RECEPTACLE 20A-125V DUPLEX TAMPER RESISTANT RECEPTACLE WITH (2) USB CHARGING PORTS 20A-125V FOURPLEX RECEPTACLE (SAME SYMBOLOLOGY TYPES AS DUPLEX RECEPTACLE) SPECIAL PURPOSE SINGLE POWER RECEPTACLE, RATED AS INDICATED (IF NO RATING INDICATED, RECEPTACLE RATING SHALL MATCH BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE AND SHALL MEET REQUIREMENTS OF EQUIPMENT BEING CONNECTED) 20A-125V FLUSH FLOOR DUPLEX RECEPTACLE 20A-125V CEILING MOUNTED DUPLEX RECEPTACLE BELL EMERGENCY POWER OFF (EPO) PUSHBUTTON DISCONNECT SWITCH; DISCONNECT SWITCHES SHALL BE 30NF/3 UON. NF = NON-FUSIBLE. NEMA 1 ENCLOSURE. PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS INDICATED ON BUSWAY. TRANSFORMER PANELBOARD SWITCHBOARD OR DISTRIBUTION PANELBOARD PHOTOVOLTAIC SOLAR PANEL SINGLE LINE DIAGRAM L1A PANELBOARD AUTOMATIC TRANSFER SWITCH CIRCUIT BREAKER (FUSED TYPE) CIRCUIT BREAKER GROUND FAULT CIRCUIT BREAKER METER TRANSFORMER COMBINATION MOTOR-STARTER DISCONNECT SWITCH W/COMBINATION MOTOR-STARTER DISCONNECT SWITCH - FUSED DISCONNECT SWITCH RENOVATION WORK EXISTING WORK SHALL BE SHOWN LIGHT - NEW WORK SHALL BE SHOWN DARK EXISTING TO REMAIN EXISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED. EXISTING SHALL BE DEMOLISHED AND REMOVED. NO TAG INDICATES NEW EQUIPMENT EQUIPMENT WITH "ER" ADJACENT IS RELOCATED EQUIPMENT SHOWN IN NEW LOCATION. DIAGRAMMATIC NOTE DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE DETAILED CONDUIT ROUTING OR LENGTHS REQUIRED FOR COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS, CONTRACT DOCUMENTS AND SPECS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES, DO NOT SCALE. THE ELECTRICAL DRAWINGS FOR LOCATING ANY ELECTRICAL ARCHITECTURAL, STRUCTURAL AND/OR MECHANICAL ITEMS OR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR FEATURES, REFERTO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR DIMENSIONS. STRUCTURAL NOTE UNLESS SPECIFICALLY SHOWN ON THESE PLANS, STRUCTURAL MEMBERS SHALL NOT BE CUT, DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.	E0.00 ELECTRICAL LEGEND, NOTES, & SHEET INDEX E0.01 ELECTRICAL SITE PLAN - DEMOLITION E0.01 ELECTRICAL SITE PLAN E1.01 ELECTRICAL RENOVATION PLAN E1.02 ELECTRICAL RENOVATION PLAN E5.01 SINGLE LINE DIAGRAM & SCHEDULES LIST OF APPLICABLE CODES 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1 2022 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 2022 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3 2022 CALIFORNIA MECHANICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4 2022 CALIFORNIA PLUMBING CODE (CEC) CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5 2022 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6 2022 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 9 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC) CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 10 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN) CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 12 2022 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 12 STATE FIRE MARSHALL REGULATIONS - PUBLIC SAFETY CALIFORNIA CODE OF REGULATIONS, TITLE 19 APPLICABLE STANDARDS FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80. APPLICABLE CODE: 2022 CBC PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND, 1617A.1.26. THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGING AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E) MP, MD, PP, E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS MP, MD, PP, E OPTION 2: SHALL COMPLY WITH HCAI (CSPI) PREAPPROVAL (OPM #) AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS. KEY PLAN NORTH: PLAN TRUE UTILITY PENETRATION NOTE UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED UL LISTED SYSTEM OR MATERIAL. STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED BY AN ONE-HOUR OR TWO-HOUR FIRE RATED WALLS, PARTITIONS, CEILING, OR AREASEPARATION UNLESS THEY: 1. OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER IN THIS CASE. ONLY ONE OUTLET BOX NEEDS TO BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION. 2. OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA IN THIS CASE. ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED TO BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE FEET OF WALL. STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL. FIRESTOPPING MATERIAL: MPP-1 MOLDABLE PUTTY PADS 3M CONTRACTOR PRODUCTS MINNEAPOLIS MN 3M TEST REPORT NO. 1167 DATED AUGUST 21, 1997 FLAMESAFE FSP 1077 FIRESTOP PADS INTERNATIONAL PROTECTIVE COATINGS OAKHURST, NJ FSP FIRESTOP PUTTY PADS HEVI-DUTY NELSON PRODUCTS TULSA, OK STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED BY ENCASEMENT. UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 04-124971 INC:
REVIEWED FOR
DATE: 03/17/2026

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100% DESIGN DEVELOPMENT

DSA APPL NO. 04-121816 DSA FILE NO. 30-43

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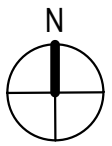
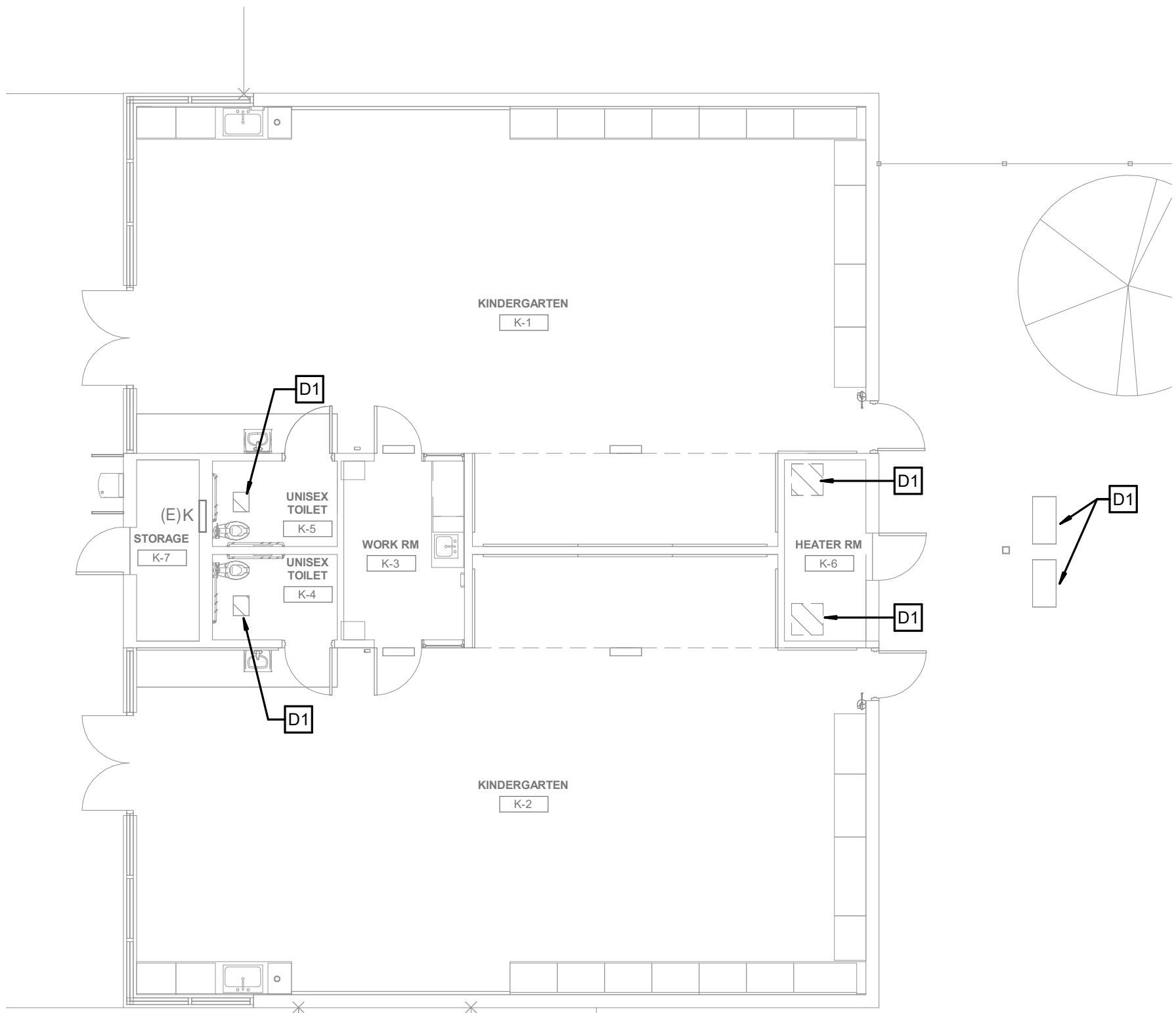


1. COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.
3. COORDINATE WITH CAMPUS REPRESENTATIVE TO PROVIDE ACCESSIBLE LOCATION FOR SEPARATION, COLLECTION AND STORAGE OF DEMOLISHED MATERIALS FOR RECYCLING AND DISPOSAL.
4. ALL OUTAGES TO EXISTING ELECTRICAL AND SIGNAL SERVICES SHALL BE SCHEDULED IN ADVANCE WITH THE OWNER.

D1	BUILDING NOT IN SCOPE.
D2	DEMOLISH AND REMOVE EXISTING EQUIPMENT INDICATED. CAP EXISTING FEEDERS FOR RECONNECTION IN RENOVATION PHASE.
D3	DEMOLISH EXISTING TREES IN THIS AREA. COORDINATE WITH CAMPUS REPRESENTATIVE PRIOR TO START OF WORK.

ED0.01

0" 1"



1 KINDERGARTEN - ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. ALL EQUIPMENT, DEVICES AND OTHER SALVAGEABLE MATERIALS TO BE STORED OR DISPOSED OF AS DIRECTED BY THE BUILDING OWNER.
2. TO MINIMIZE DOWNTIME, CONTRACTOR SHALL COORDINATE SHUTDOWN OF EXISTING EQUIPMENT SERVED BY THE HOT WATER SYSTEM WITH CAMPUS REPRESENTATIVE.
3. POWER/DATA OUTLETS IN AREA OF WORK WHICH ARE NOT GOING TO BE DEMOLISHED/REMOVED SHALL BE PROTECTED IN-PLACE.
4. CAREFULLY PROTECT ALL EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
5. REMOVE ALL ABANDONED WIRES BACK TO PANEL BOARD. LABEL CIRCUIT BREAKER AS SPARE.
6. ELECTRICAL CONTRACTOR TO LABEL RECEPTACLE AND JUNCTION BOXES WITH CORRESPONDING PANEL NAME AND CIRCUIT.
7. PROVIDE AND/OR REPLACE MISSING OR DAMAGED OUTLET COVER PLATES OF EXISTING OUTLETS TO REMAIN.

DEMOLITION KEY NOTES

- D1** EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED CONDUITS, CONDUCTORS AND DEVICES TO BE DEMOLISHED BACK TO SOURCE.

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DSA APPL NO. 04-121816 DSA FILE NO. 30-43

WILLMORE ES HVAC UPGRADE & MODERNIZATION

KEY PLAN
NORTH: PLAN TRUE

K

AD

MP

F4F3F2F1

F8F7F6F5

A-B

C-D

F1F1F1F1

E5E4

SDC

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STEVEN C. MUSEY
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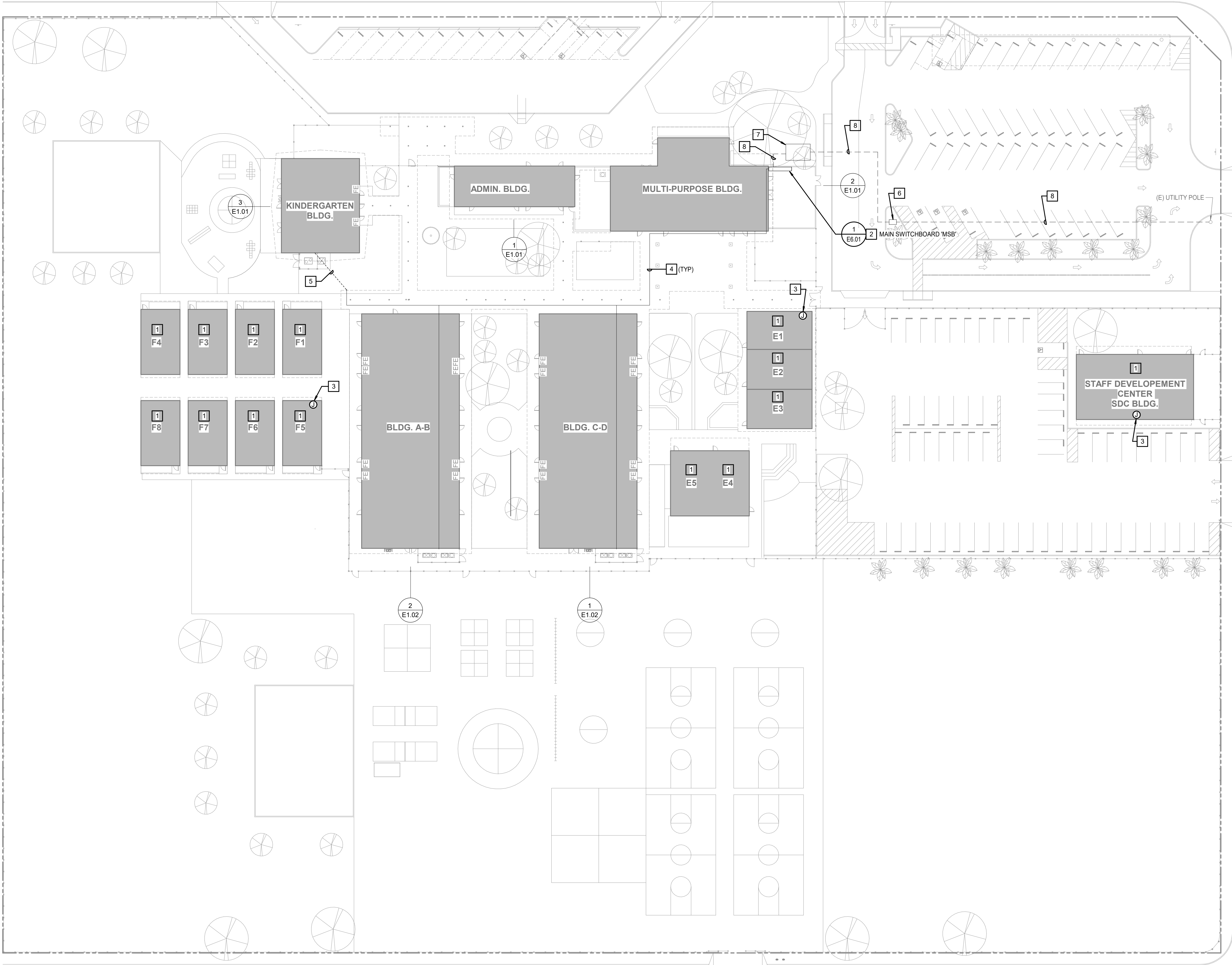
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CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 09-30-2025 PROJECT NUMBER 250377

REVISIONS
No. Description Date

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ELECTRICAL DEMOLITION PLANS



GENERAL NOTES

- COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
- UNLESS NOTED OTHERWISE ALL UNDERGROUND CONDUIT SHOWN ON THIS PLAN TO BE MINIMUM 1" IN SIZE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.

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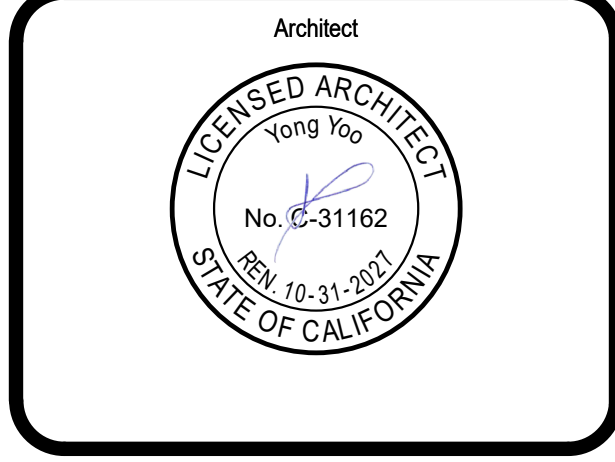
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WILLMORE ES HVAC UPGRADE &
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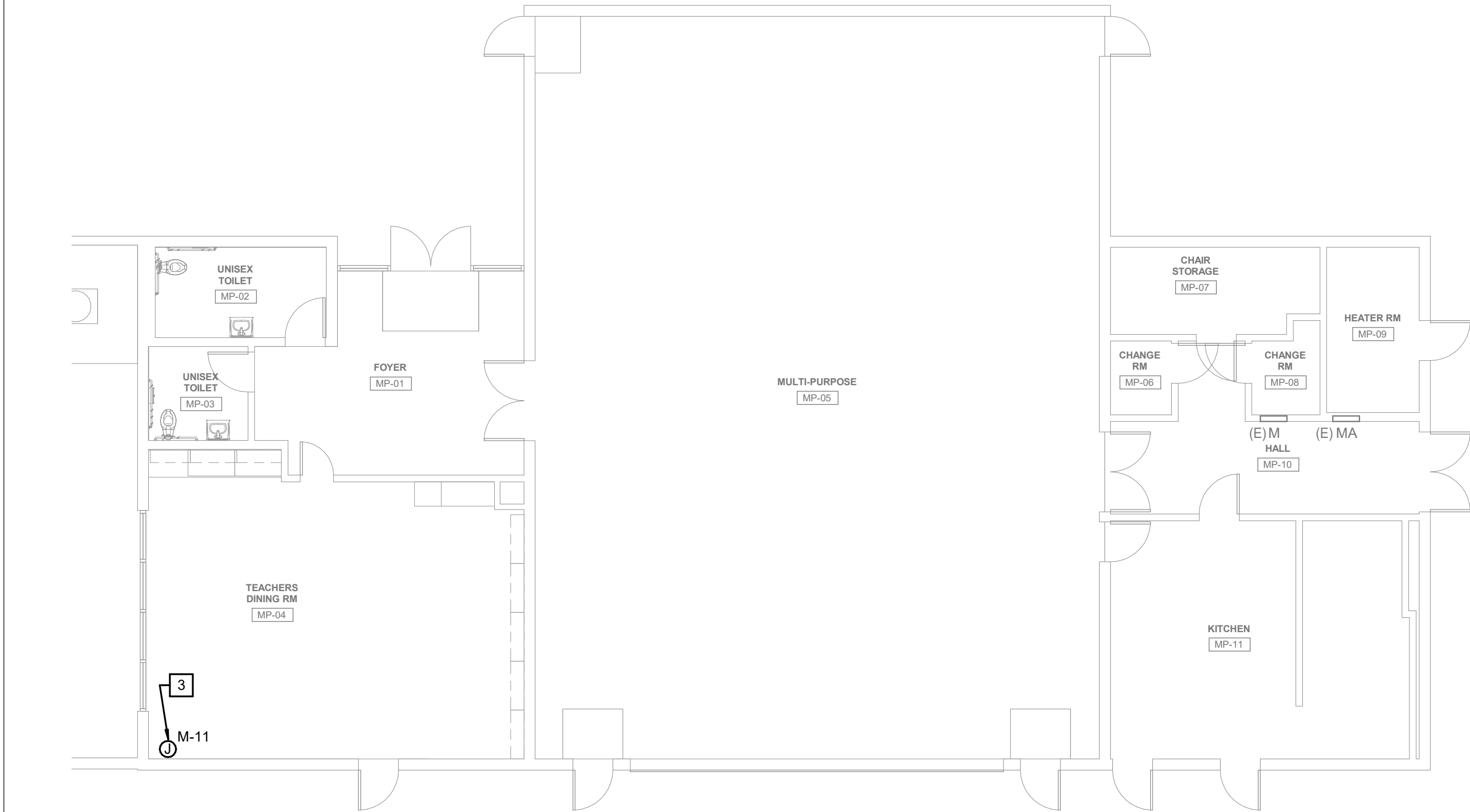
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DSA APPL. NO. 04-121816 DSA FILE NO. 30-43

KEY PLAN
NORTH: PLAN TRUE
Legend: K, AD, MP, F4F3F2F1, F6F7F8F5, A-B, C-D, E1E11, E2E12, E3E4, E5E4, SDC

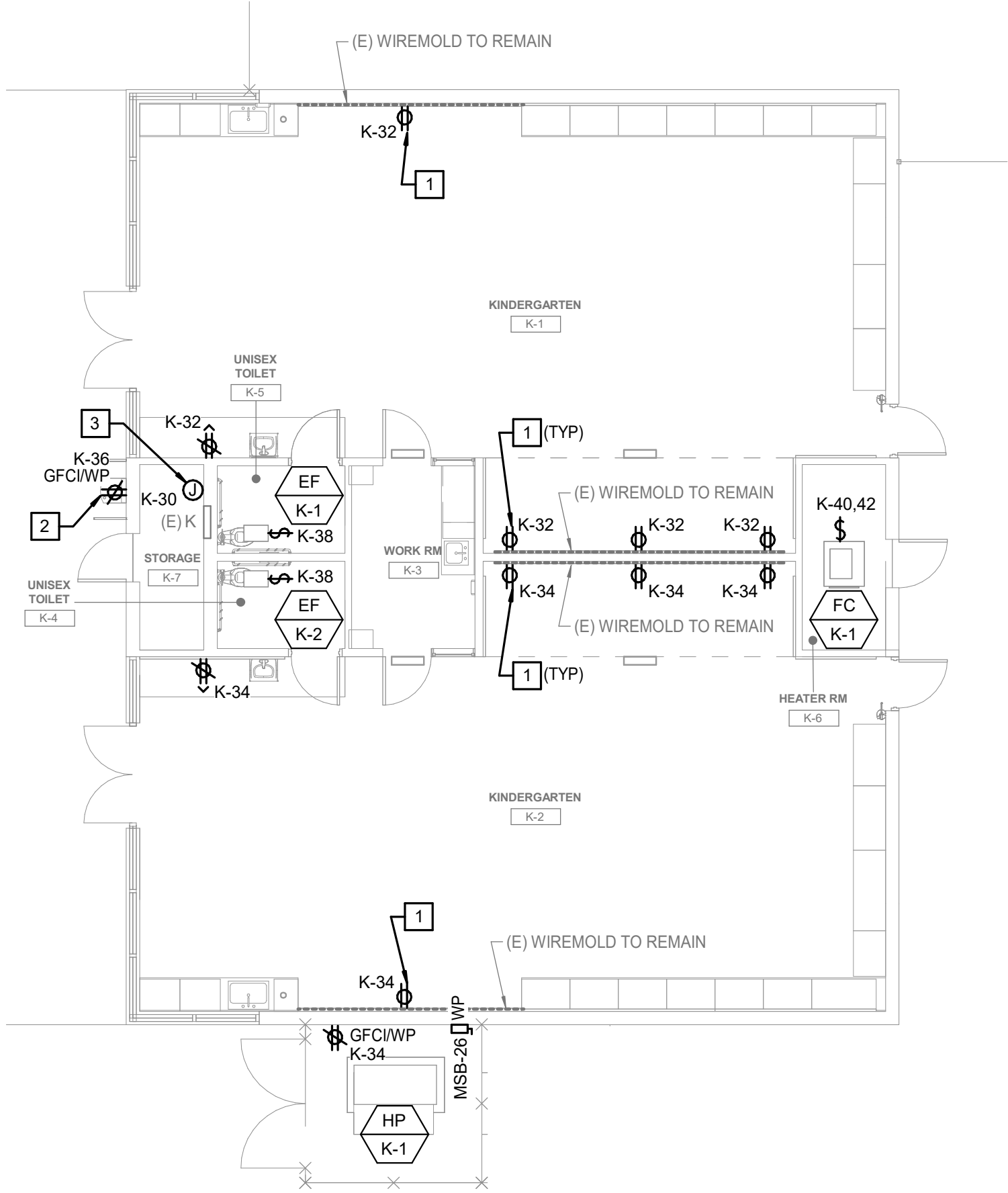


REVISIONS		
No.	Description	Date

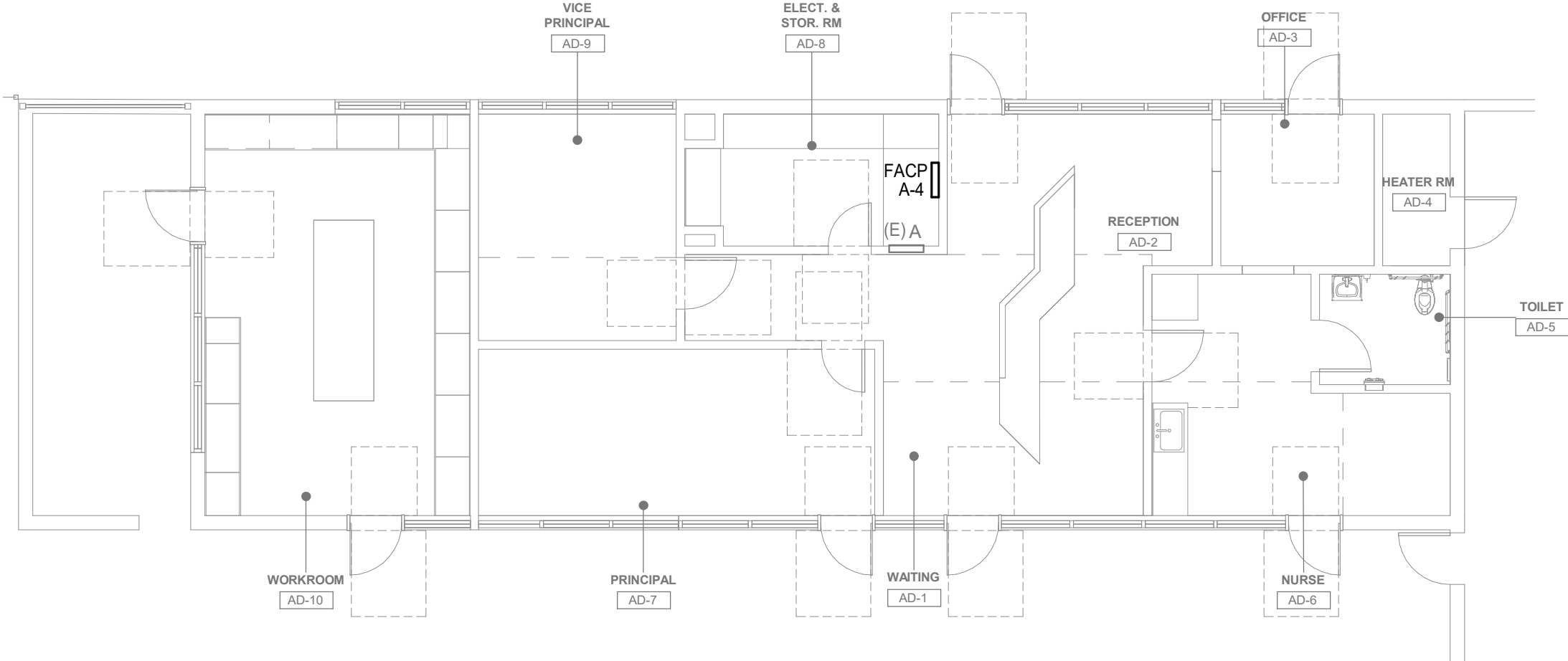
100% DESIGN DEVELOPMENT
ELECTRICAL SITE PLAN



2 MPR - ELECTRICAL RENOVATION PLAN
1/8" = 1'-0"



3 KINDERGARTEN - ELECTRICAL RENOVATION PLAN
1/8" = 1'-0"



1 ADMIN - ELECTRICAL RENOVATION PLAN
1/8" = 1'-0"

ELECTRICAL CONNECTIONS SCHEDULE				
EQUIPMENT ID	EQUIPMENT VOLTAGE	DISCONNECT SIZE (AMPS, FUSE, POLES)	BRANCH CIRCUIT SIZE	NEMA-3R
EF - K-1	120V	20A MRTS	3/4"C - 2#12 & 1#12G	No
EF - K-2	120V	20A MRTS	3/4"C - 2#12 & 1#12G	No
FC - K-1	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
HP - K-1	208V	60/40/3	1"C - 3#2 & 6GND	Yes

GENERAL NOTES

- BRANCH CIRCUITS SHALL BE 3/4"C - 2#12 & 1#12G, UNLESS OTHERWISE NOTED.
- COORDINATE LOCATION AND INSTALLATION REQUIREMENTS PER MANUFACTURER'S RECOMMENDATIONS FOR MISC. SPECIFIED EQUIPMENT PRIOR TO ROUGH-IN.
- COORDINATE INSTALLATION REQUIREMENTS WITH MECHANICAL DRAWINGS FOR SPECIFIED MECHANICAL EQUIPMENT AND DEVICES PRIOR TO ROUGH-IN.
- MAINTAIN CODE REQUIRED CLEARANCES AROUND ELECTRICAL EQUIPMENT.
- COORDINATE MOUNTING HEIGHTS FOR ELECTRICAL DEVICES WITH CAMPUS REPRESENTATIVE PRIOR TO ROUGH-IN.
- SEE DETAILS ON SHEET E6.01 FOR ELECTRICAL DETAILS.
- FOR EQUIPMENT OR DEVICES SHOWN ON ARCHITECTURAL DRAWINGS THAT REQUIRE POWER AND NOT IDENTIFIED ON ELECTRICAL PLANS, ASSUME AT A MINIMUM A DUPLEX OUTLET, A DEDICATED CIRCUIT WITH 2#12, 1#12G, 3/4"C, WITH HOMERUN TO NEAREST 120/208V PANEL.
- PROVIDE 1-HOUR SEALANT FOR ALL (N) WALL PENETRATIONS.

KEY NOTES

- PROVIDE NEW ELECTRICAL DEVICE IN EXISTING WIREMOLD.
- PROVIDE CONNECTION FOR DRINKING FOUNTAIN.
- PROVIDE CONNECTION FOR FIRE ALARM POWER SUPPLY AND AMPLIFIER.

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APP: 04-124971 INC:
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DATE: 03/17/2026

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WILLMORE ES HVAC UPGRADE & MODERNIZATION
PROJECT ADDRESS:
7122 Maple St
Westminster, CA 92683
100% DESIGN DEVELOPMENT
DSA APPL. NO. 04-121816 DSA FILE NO. 30-43

K

AD

MP

F4F3F2F1

F8F7F6F5

A-B

C-D

E1

E2

E3

E4

SDC

KEY PLAN
NORTH: PLAN TRUE

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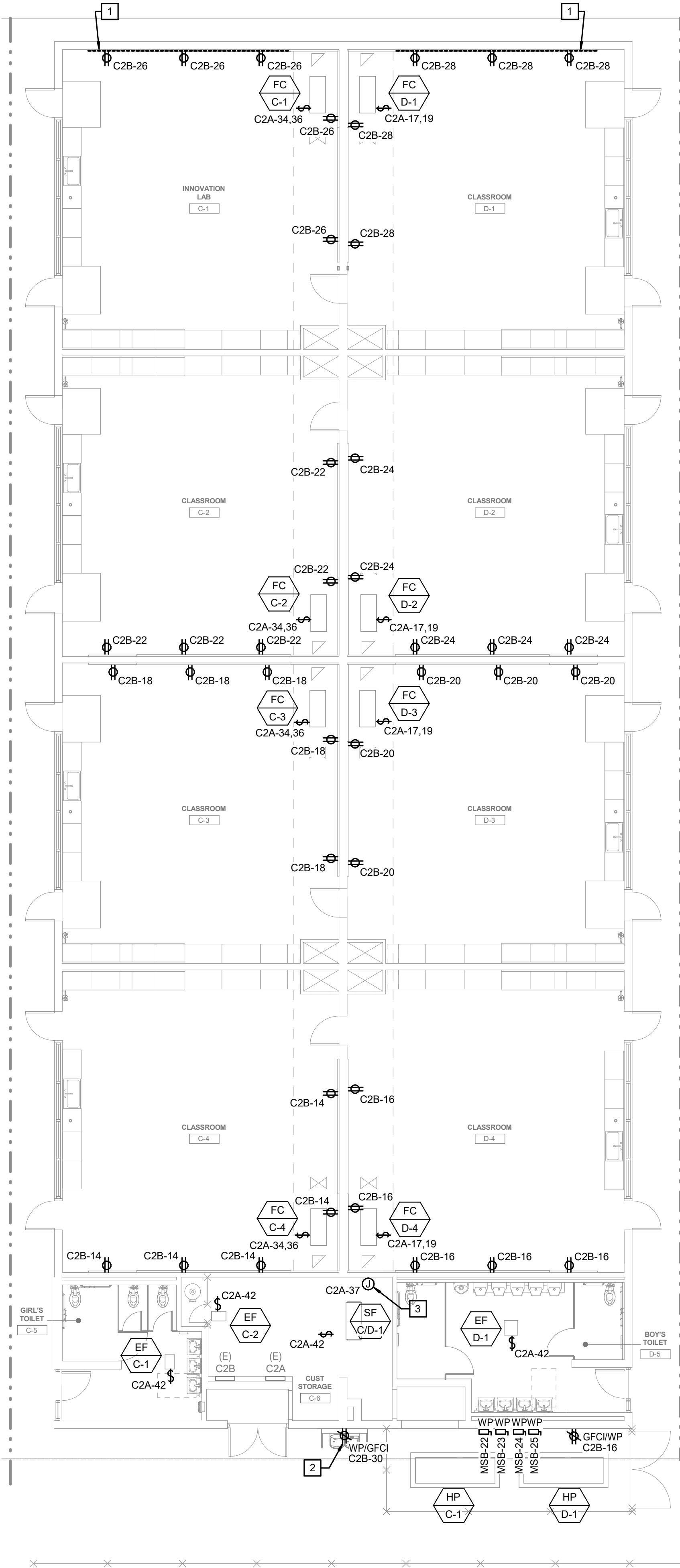
CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 09-30-2025 PROJECT NUMBER 250377

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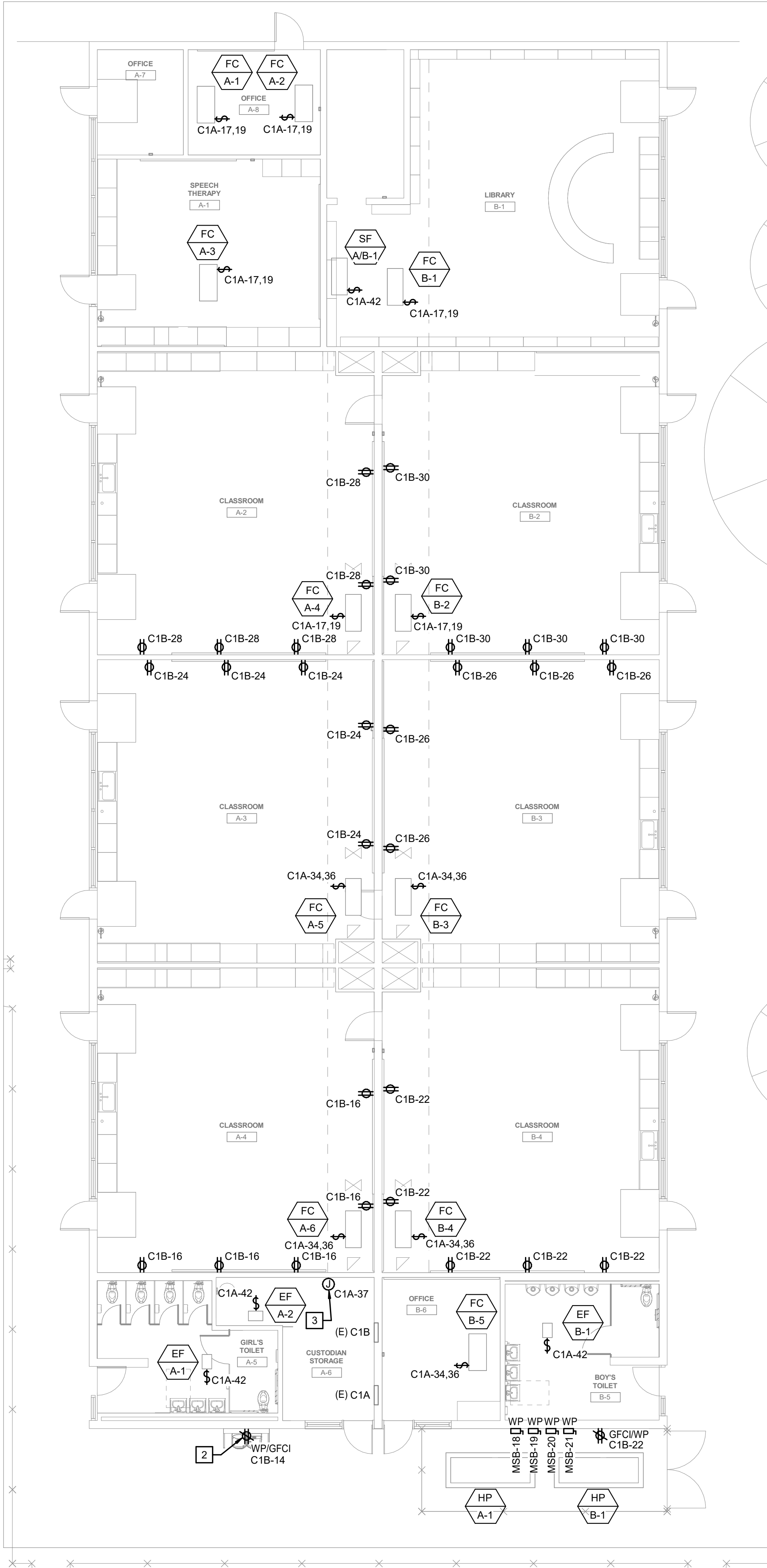
100% DESIGN DEVELOPMENT

ELECTRICAL RENOVATION PLAN

E1.01



2 CLASSROOM BLDG C & D - ELECTRICAL PLAN
1/8" = 1'-0"



1 CLASSROOM BLDG A & B - ELECTRICAL PLAN
1/8" = 1'-0"

ELECTRICAL CONNECTION SCHEDULE				
EQUIPMENT ID	EQUIPMENT VOLTAGE	DISCONNECT SIZE (AMPS, FUSE, POLES)	BRANCH CIRCUIT SIZE	NEMA-3R
EF - A-1	120V	20A MRTS	3/4"C - 2#12 & 1#12G	No
EF - B-1	120V	20A MRTS	3/4"C - 2#12 & 1#12G	No
EF - C-1	120V	20A MRTS	3/4"C - 2#12 & 1#12G	No
EF - C-2	120V	20A MRTS	3/4"C - 2#12 & 1#12G	No
EF - A-2	120V	20A MRTS	3/4"C - 2#12 & 1#12G	No
EF - D-1	120V	20A MRTS	3/4"C - 2#12 & 1#12G	No
FC - A-1	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - A-2	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - A-3	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - A-4	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - A-5	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - A-6	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - B-1	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - B-2	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - B-3	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - B-4	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - B-5	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - B-5	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - B-5	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - C-1	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - C-2	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - C-3	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - C-4	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - D-1	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - D-2	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - D-3	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
FC - D-4	208V	20A2P MRTS	3/4"C - 3#12 & 1#12G	No
HP - A-1	208V	100/70/3	2"C - 3#10 & 1#6G	Yes
HP - A-1	208V	60/45/3	1-1/2"C - 3#1 & 1#8G	Yes
HP - B-1	208V	100/70/3	2"C - 3#10 & 1#6G	Yes
HP - B-1	208V	60/45/3	1-1/2"C - 3#1 & 1#8G	Yes
HP - C-1	208V	100/70/3	2"C - 3#10 & 1#6G	Yes
HP - C-1	208V	60/45/3	1-1/2"C - 3#3 & 1#8G	Yes
HP - D-1	208V	100/70/3	2"C - 3#10 & 1#6G	Yes
HP - D-1	208V	60/45/3	1-1/2"C - 3#3 & 1#8G	Yes
SF A/B-1	120V	20A MRTS	3/4"C - 2#12 & 1#12G	No
SF C/D-1	120V	20A MRTS	3/4"C - 2#12 & 1#12G	No

- ### GENERAL NOTES
- BRANCH CIRCUITS SHALL BE 3/4"C - 2#12 & 1#12G, UNLESS OTHERWISE NOTED.
 - COORDINATE LOCATION AND INSTALLATION REQUIREMENTS PER MANUFACTURER'S RECOMMENDATIONS FOR MISC. SPECIFIED EQUIPMENT PRIOR TO ROUGH-IN.
 - COORDINATE INSTALLATION REQUIREMENTS WITH MECHANICAL DRAWINGS FOR SPECIFIED MECHANICAL EQUIPMENT AND DEVICES PRIOR TO ROUGH-IN.
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 - PROVIDE 1-HOUR SEALANT FOR ALL (N) WALL PENETRATIONS.

- ### KEY NOTES
- PROVIDE WIREMOLD ON EXISTING WALL SURFACE.
 - PROVIDE CONNECTION FOR DRINKING FOUNTAIN.
 - PROVIDE CONNECTION FOR FIRE ALARM POWER SUPPLY AND AMPLIFIER.

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KEY PLAN
NORTH: PLAN TRUE

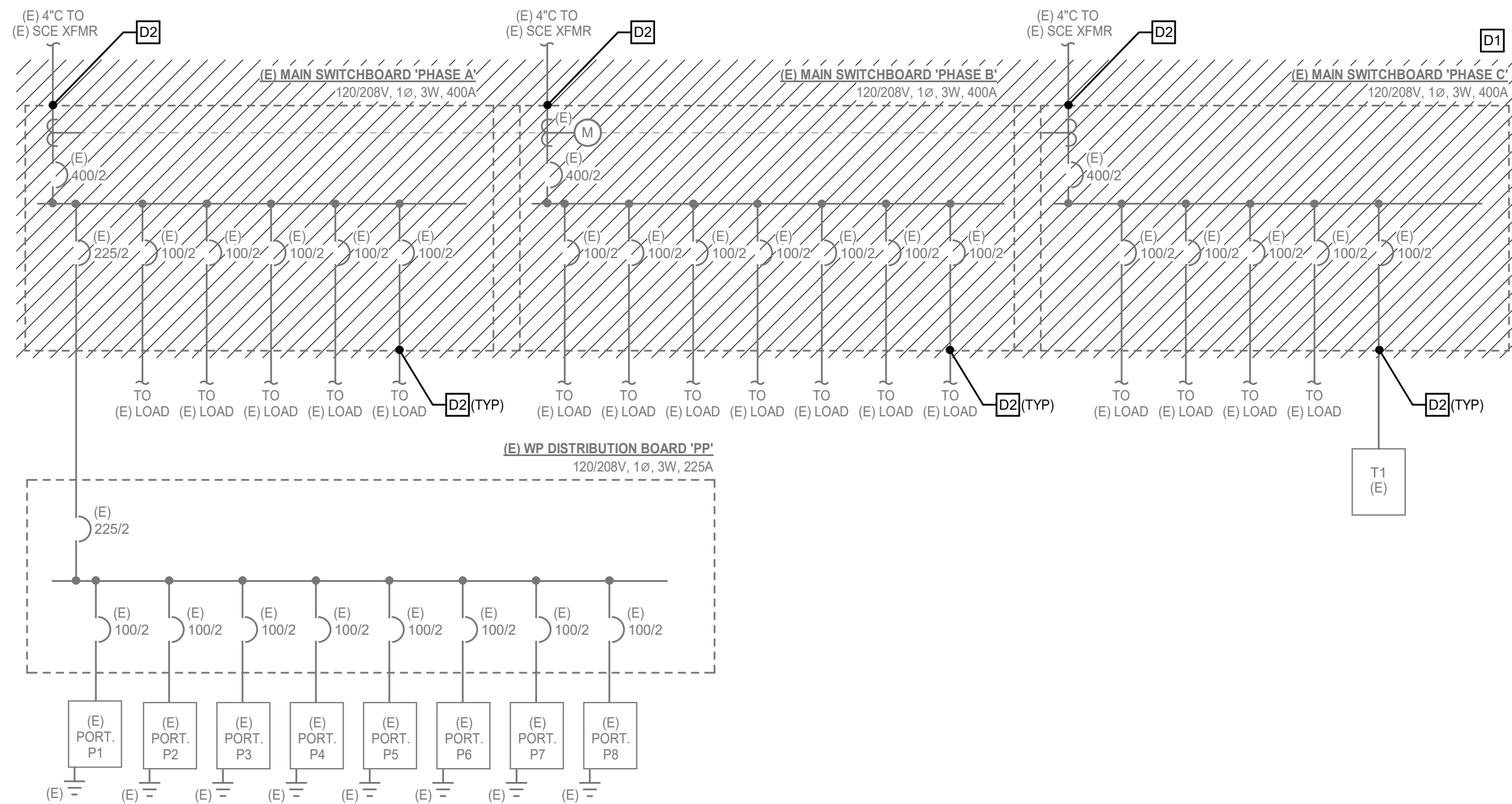
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CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 09-30-2025 PROJECT NUMBER 250377
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No. Description Date

100% DESIGN DEVELOPMENT
ELECTRICAL RENOVATION PLAN

E1.02



DEMOLITION KEY NOTES

- | | |
|----|---|
| D1 | DEMOLISH AND REMOVE EXISTING EQUIPMENT INDICATED. |
| D2 | CAP EXISTING FEEDERS FOR RECONNECTION IN RENOVATION PHASE |

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WILL MORE ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
7122 Maple St

100% DESIGN DEVELOPMENT

DSA APPL NO.: 04-121816 DSA FILE NO.: 30-43

1	SINGLE LINE DIAGRAM - DEMOLITION
----------	----------------------------------

NOT TO SCALE

VOLTAGE DROP CALCULATIONS - FEEDERS													
FEEDER	VOLTS	PHASE	AMPS	LENGTH (ft)	SETS	CONDUIT	AMPS/SET	WIRE	GND	Z @0.85pf	VD(L-N)	VD(L-L)	VD%(L-L)
DPB	208	3								#N/A	#N/A	#N/A	#N/A
HP A-1	208	3	52	500	(1)	2" C.	52	4 # 1/0	6	0.13	3.3	5.8	2.79%
HP A-1	208	3	37	500	(1)	1-1/2" C.	37	4 # 1	8	0.16	3.0	5.1	2.46%
HP B-1	208	3	57	500	(1)	2" C.	57	4 # 2/0	6	0.11	3.2	5.5	2.63%
HP B-1	208	3	37	500	(1)	1-1/2" C.	37	4 # 1	8	0.16	3.0	5.1	2.46%
HP C-1	208	3	52	393	(1)	2" C.	52	4 # 1/0	2	0.13	2.7	4.6	2.21%
HP C-1	208	3	393	393	(1)	1-1/2" C.	393	4 # 3	8	0.23	3.3	5.8	2.78%
HP D-1	208	3	52	393	(1)	1-1/2" C.	52	4 # 1/0	8	0.13	2.7	4.6	2.21%
HP D-1	208	3	393	393	(1)	1-1/2" C.	393	4 # 3	8	0.23	3.3	5.8	2.78%
HP K-1	208	3	37	420	(1)	1-1/2" C.	37	4 # 2	6	0.19	3.0	5.1	2.46%
HP K-2	208	3	37	420	(1)	1-1/2" C.	37	4 # 2	6	0.19	3.0	5.1	2.46%

Switchboard: MSB

Supply From: EXISTING XFMR
Mounting: GROUND

Volts: 208Y/120V, 3PH, 4W
Phases: 3

ing: 65 KAIC
type: 1200 A

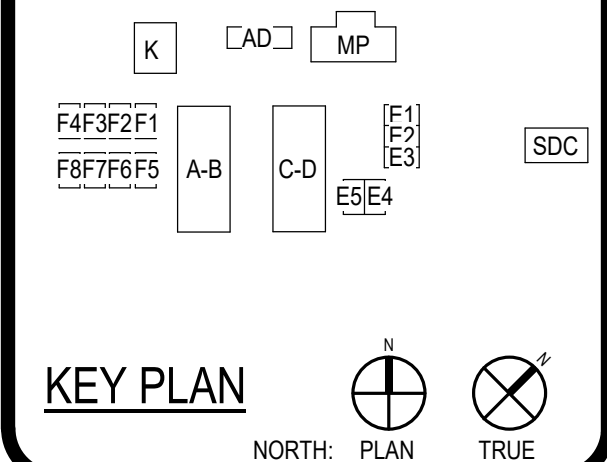
ting: 1200 A

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Circuit Description				Load	Remarks
EXISTING LOAD				0 VA	
(E) PANEL K				2905 VA	
(E) PANEL A				500 VA	
(E) PANEL C1A				5361 VA	
(E) PANEL C2A				5841 VA	
EXISTING LOAD				0 VA	
EXISTING LOAD				0 VA	
EXISTING LOAD				0 VA	
EXISTING LOAD				0 VA	
EXISTING LOAD				0 VA	
EXISTING LOAD				0 VA	
EXISTING LOAD				0 VA	
EXISTING LOAD				0 VA	
EXISTING LOAD				0 VA	
EXISTING LOAD				0 VA	
EXISTING LOAD				0 VA	
EXISTING LOAD				0 VA	
●HP-A-1				18553 VA	
HP-A-1				13185 VA	
HP-B-1				20679 VA	
HP-B-1				13185 VA	
HP-C-1				18553 VA	
HP-C-1				13185 VA	
HP-D-1				18553 VA	
HP-D-1				13185 VA	
●HP-K-1				8646 VA	
				152331 VA	
				423 A	
Load Classifications:				Panel Totals	
Motor	Connected Load	Demand Factor	Estimated Demand		
	137724 VA	100.00%	137724 VA		
Other	11947 VA	100.00%	11947 VA	Total Conn. Load: 152331 VA	
Receptacle	2160 VA	100.00%	2160 VA	Total Conn. Demand: 152331 VA	
Spare	500 VA	100.00%	500 VA	Total Conn. Current: 423 A	
				Total Est. Demand Current: 423 A	

KEY NOTES

- 1 EXTEND EXISTING FEEDER(S) TO NEW EQUIPMENT SHOWN.
- 2 NEW CIRCUIT BREAKER, NEW LOAD. MANUFACTURER AND AIC RATING TO MATCH EXISTING
- 3 REFER TO EQUIPMENT CONNECTION SCHEDULE POWER PLANS FOR DISCONNECT AND FEEDER SIZE.



FEEDER SCHEDULE

AIR NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS
30N	4#10, 1#10G	1"	1
50N	4#6, 1#10G	1"	1
60N	4#6, 1#10G	1"	1
100	3#1, 1#6G	1 1/2"	1
100N	4#1, 1#6G	1 1/2"	1
125	3#1, 1#6G	1 1/2"	1
125N	4#1, 1#6G	2"	1
150	3#10, 1#6G	1 1/2"	1
150N	4#10, 1#6G	2"	1
175	3#20, 1#6G	2"	1
175N	4#20, 1#6G	2"	1
200	3#30, 1#6G	2"	1
200N	4#30, 1#6G	2"	1
225	3#40, 1#4G	2"	1
225N	4#40, 1#4G	2 1/2"	1
250	3#250, 1#4G	2 1/2"	1
250N	4#250, 1#4G	3"	1
300	3#350, 1#4G	3"	2
300N	4#350, 1#4G	3"	1
400	3#30, 1#3G	2"	2
400N	4#30, 1#3G	2"	2
400S	4#500	3 1/2"	1
600	3#350, 1#1G	3"	2
600N	4#350, 1#1G	3"	2
600S	4#350	3"	2
800	3#500, 1#1/0G	3"	2
800N	4#500, 1#1/0G	3 1/2"	2
800S	4#500	3 1/2"	2
1000	3#600, 1#2/0G	3"	3
1000N	4#600, 1#2/0G	3"	3
1000S	4#400	3"	3
1200	3#550, 1#3/0G	3"	4
1200N	4#550, 1#3/0G	3"	4
1200S	4#350	3"	4
1600S	4#400	3"	5
2000S	4#400	3"	6
2500S	4#500	3 1/2"	7
3000S	4#500	3 1/2"	7
4000S	4#500	3 1/2"	11

ELEC. SERVICE LOAD SUMMARY

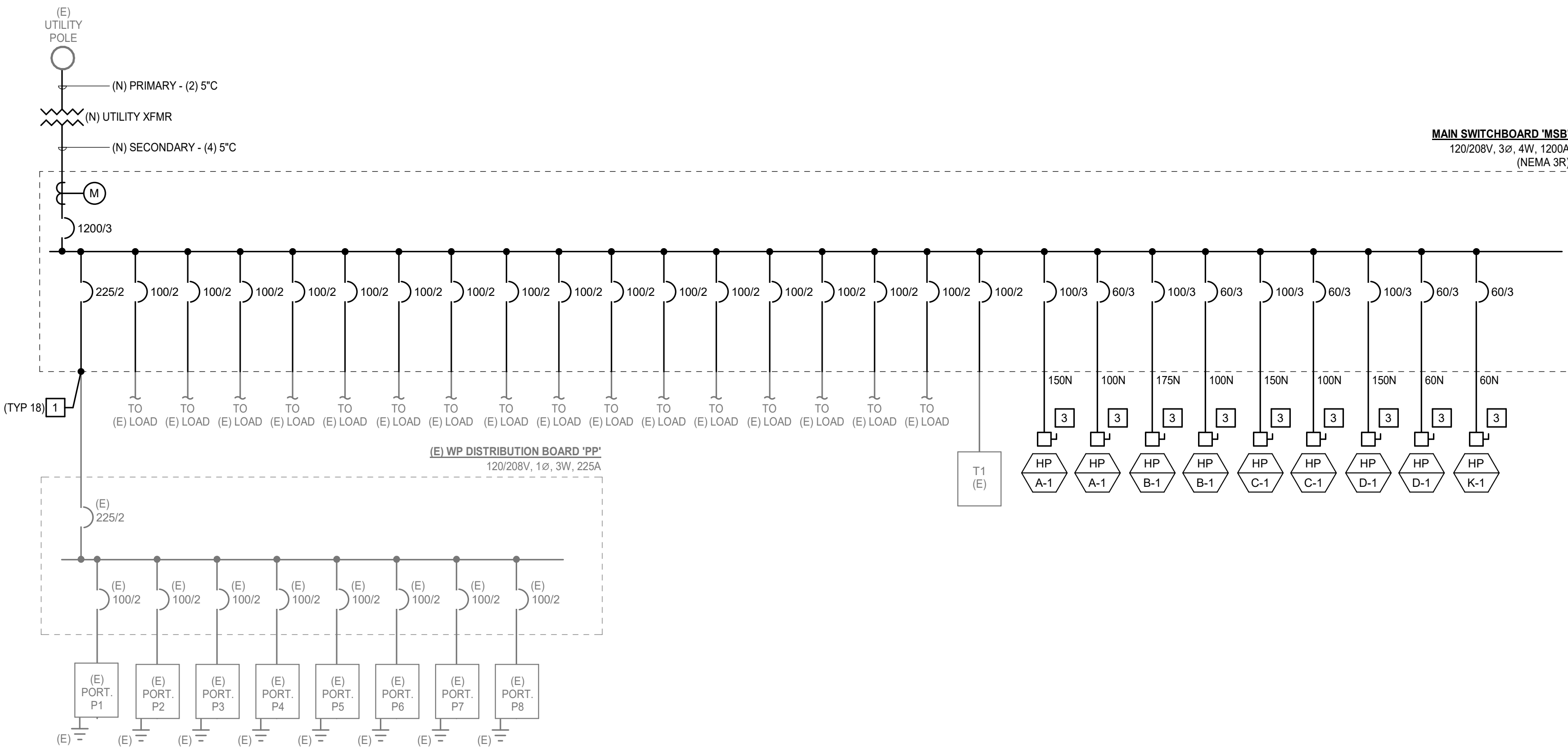
LOAD DESCRIPTION	ESTIMATED DEMAND KVA
EXISTING PEAK DEMAND OVER THE PAST 12 MONTHS	99
125% OF PEAK DEMAND	124
<u>RENOVATIONS - ADDED LOAD</u>	
-	
NEWLY ADDED ESTIMATED DEMAND	172
ESTIMATED TOTAL BUILDING DEMAND LOAD =	296
	821A @ 208V

[illegible]

100% DESIGN DEVELOPEMENT

SINGLE LINE DIAGRAM & SCHEDULES

E5.01



2 SINGLE LINE DIAGRAM - RENOVATION

NOT TO SCALE

(E) Branch Panel: MA

LOCATI... Existing		NEUTRAL BUS: Yes NEUTRAL RATING: 100% GROUND BUS: Yes MOUNTING: Existing										VOLTAGE: 120/208V, 1PH, 3W MAIN BUS: 150A MCB: 150A AIC RATING: Existing									
		A					B					Circuit Description					CIR NO				
		CIR NO	Circuit Description	Breaker Amps/ Poles								Breaker Amps/ Poles									
1	EXISTING LOAD	20 A	1	--	0	0			--	1	20 A	EXISTING LOAD	2								
3	EXISTING LOAD	20 A	1	--			0	0	--	1	20 A	EXISTING LOAD	4								
5	EXISTING LOAD	20 A	1	--		0	0		--	1	20 A	EXISTING LOAD	6								
7	EXISTING LOAD	20 A	1	--				0	--	1	20 A	EXISTING LOAD	8								
9	EXISTING LOAD	20 A	1	--		0	0		--	1	20 A	EXISTING LOAD	10								
11	EXISTING LOAD	20 A	1	--				0	--	1	20 A	EXISTING LOAD	12								
13	EXISTING LOAD	20 A	1	--		0	0		--	1	20 A	EXISTING LOAD	14								
15	EXISTING LOAD	20 A	1	--				0	--	1	20 A	EXISTING LOAD	16								
17	EXISTING LOAD	20 A	1	--		0	0		--	1	20 A	EXISTING LOAD	18								
19	SPARE	20 A	1	--				0	--	1	20 A	SPARE	20								
21	SPARE	20 A	1	--		0	0		--	1	20 A	SPARE	22								
23	SPARE	20 A	1	--				0	--	1	20 A	SPARE	24								
25	EXISTING LOAD	20 A	2	--		0	0		--	1	20 A	SPARE	26								
27	EXISTING LOAD	20 A	2	--				0	--	2	15 A	EXISTING LOAD	28								
29	EXISTING LOAD	20 A	2	--				0	--	2	15 A	EXISTING LOAD	30								
31	EXISTING LOAD	20 A	2	--		0	0		--	2	15 A	EXISTING LOAD	32								
33	EXISTING LOAD	20 A	2	--				0	--	2	50 A	EXISTING LOAD	34								
35	SPACE	--	1	--	--	0			--	2	50 A	EXISTING LOAD	36								
37	SPACE	--	1	--				--	0				38								
39	SPACE	--	1	--	--	0			--	2	20 A	EXISTING LOAD	40								
41													42								

LEGEND:
** 6 mA GROUND FAULT CIRCUIT BREAKER
*30 mA GROUND FAULT CIRCUIT BREAKER
LOCK-ON CIRCUIT BREAKER HANDLE
ST - SHUNT TRIP

CONNECTED LOAD BY PHASE (VA)		CONNECTED KVA	
A:	0	0	AMPS
B:	0	0	AMPS
DEMAND		0	AMPS

REMARKS:

(E) Branch Panel: K

NEUTRAL BUS: Yes NEUTRAL RATING: 100% GROUND BUS: Yes MOUNTING: Existing										VOLTAGE: 120/208V, 1PH, 3W MAIN BUS: 100A MCB: 100A AIC RATING: Existing											
LOCAT... Existing																					
CIR NO	Circuit Description	Breaker Amps/ Poles		A		B		Breaker Amps/ Poles		Circuit Description		CIR NO									
1	EXISTING LOAD	20 A	1	--	0	0		--	1	20 A	EXISTING LOAD	2									
3	EXISTING LOAD	20 A	1	--				0	0	--	1	20 A	EXISTING LOAD	4							
5	EXISTING LOAD	20 A	1	--	0	0		--	1	20 A	EXISTING LOAD	6									
7	EXISTING LOAD	20 A	1	--				0	0	--	1	20 A	EXISTING LOAD	8							
9	EXISTING LOAD	20 A	1	--	0	0		--	1	20 A	EXISTING LOAD	10									
11	EXISTING LOAD	20 A	1	--				0	0	--	1	20 A	EXISTING LOAD	12							
13	EXISTING LOAD	20 A	1	--	0	0		--	1	20 A	EXISTING LOAD	14									
15	EXISTING LOAD	20 A	1	--				0	0	--	1	20 A	EXISTING LOAD	16							
17	EXISTING LOAD	20 A	1	--	0	0		--	1	20 A	EXISTING LOAD	18									
19	EXISTING LOAD	20 A	1	--				0	0	--	1	20 A	EXISTING LOAD	20							
21	EXISTING LOAD	20 A	1	--	NEUTRAL BUS			--	2	20 A	EXISTING LOAD	22									
23	EXISTING LOAD	20 A	1	--				0	0					24							
25	EXISTING LOAD	20 A	2	--	0	0		--	2	20 A	EXISTING LOAD	26									
27	EXISTING LOAD	20 A	2	--				0	0					28							
29	EXISTING LOAD	20 A	1	--	0	25				1	20 A	# FIRE ALARM EQUIPMENT	30								
31	SPACE	--	1	--				--	900	1	20 A	RECEPTS - CLASSROOM	32								
33	SPACE	--	1	--	1080			--	180	1	20 A	RECEPTS - CLASSROOM/EXTERIOR	34								
35	SPACE	--	1	--				--	180	1	20 A	DRINKING FOUNTAIN	36								
37	SPACE	--	1	--	200					1	20 A	EXHAUST FANS	38								
39	SPACE	--	1	--				--	260					40							
41	SPACE	--	1	--	260					2	20 A	FC-K-1 / FC-K-2	42								

LEGEND:
** 6 mA GROUND FAULT CIRCUIT BREAKER
*30 mA GROUND FAULT CIRCUIT BREAKER
LOCK-ON CIRCUIT BREAKER HANDLE
ST - SHUNT TRIP

CONNECTED LOAD BY PHASE (VA)		CONNECTED KVA	
A:	1565	2905	AMPS
B:	1340	14	AMPS
DEMAND		14	AMPS

REMARKS:

(E) Branch Panel: C1A

LOCAT... Existing		NEUTRAL BUS: Yes NEUTRAL RATING: 100% GROUND BUS: Existing MOUNTING: Existing										VOLTAGE: 120/208V, 1PH, 3W MAIN BUS: 200A MCB: 200A A/C RATING: Existing									
		Circuit Description		Breaker Amps/ Poles		A		B		Breaker Amps/ Poles		Circuit Description		CIR NO							
1		EXISTING LOAD	20 A	1	--	0	0			--	1	20 A	EXISTING LOAD	2							
3		EXISTING LOAD	20 A	1	--			0	0	--	1	20 A	EXISTING LOAD	4							
5		EXISTING LOAD	20 A	1	--	0	0			--	1	20 A	EXISTING LOAD	6							
7		EXISTING LOAD	20 A	1	--			0	0	--	1	20 A	EXISTING LOAD	8							
9		EXISTING LOAD	20 A	1	--	0	0			--	1	20 A	EXISTING LOAD	10							
11		EXISTING LOAD	20 A	1	--			0	0	--	1	20 A	EXISTING LOAD	12							
13		EXISTING LOAD	20 A	1	--	0	0			--	1	20 A	EXISTING LOAD	14							
15		EXISTING LOAD	20 A	1	--			0	0	--	1	20 A	EXISTING LOAD	16							
17	FAN COILS - CLASSLIBRARY/OFFICES		20 A	2	--	972	0		972	0	--	1	20 A	EXISTING LOAD	18						
19		EXISTING LOAD	20 A	1	--	0	0			--	1	20 A	EXISTING LOAD	20							
21		EXISTING LOAD	20 A	1	--			0	0	--	1	20 A	EXISTING LOAD	22							
23		EXISTING LOAD	20 A	1	--	0	0			--	1	20 A	EXISTING LOAD	24							
25		EXISTING LOAD	20 A	1	--			0	0	--	1	20 A	EXISTING LOAD	26							
27		EXISTING LOAD	20 A	1	--					--	1	20 A	EXISTING LOAD	28							
29		EXISTING LOAD	20 A	1	--	0	0			--	1	20 A	EXISTING LOAD	30							
31		EXISTING LOAD	20 A	1	--			0	0	--	1	20 A	EXISTING LOAD	32							
33		EXISTING LOAD	20 A	1	--	0	1075		1075		--	2	20 A	FAN COILS - CLASSROOMS/OFFICE	34						
35		EXISTING LOAD	20 A	1	--										36						
37	# FIRE ALARM EQUIPMENT		20 A	1	--	500	0								38						
39	SPACE	--	1	--					--	1	--	2	100 A	PANEL 'C18'	40						
41	SPACE	--	1	--	--	768				--	1	20 A	SUPPLY/EXHAUST FANS	42							