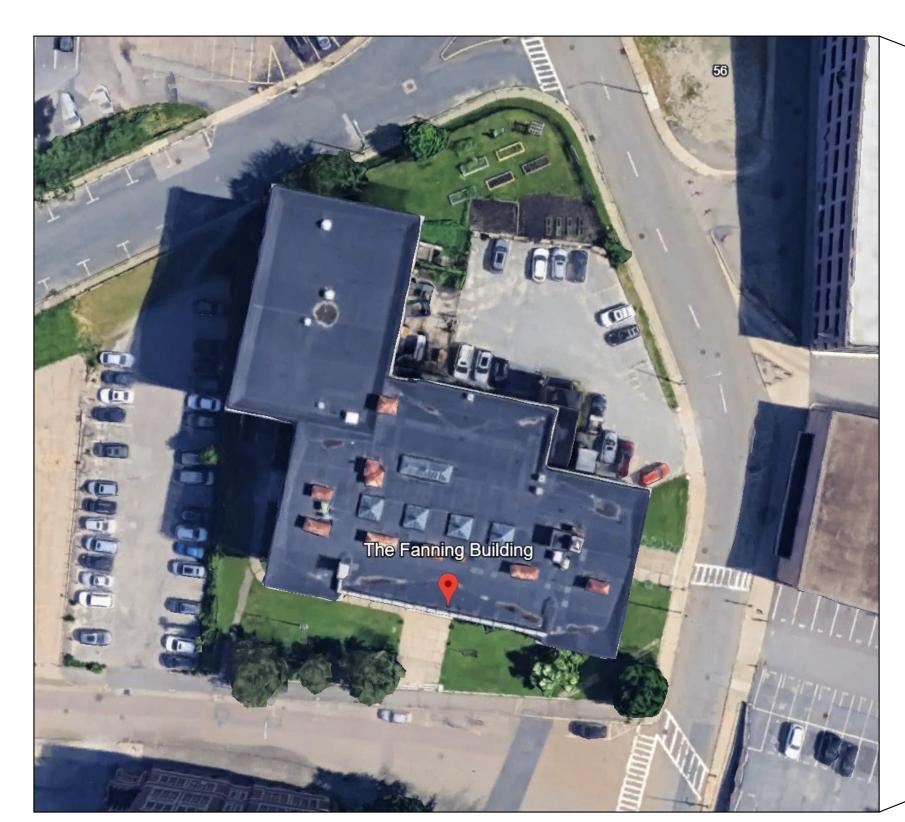
ENTRY RENOVATIONS FANNING SCHOOL FOR THE WORCESTER PUBLIC SCHOOLS WORCESTER, MA

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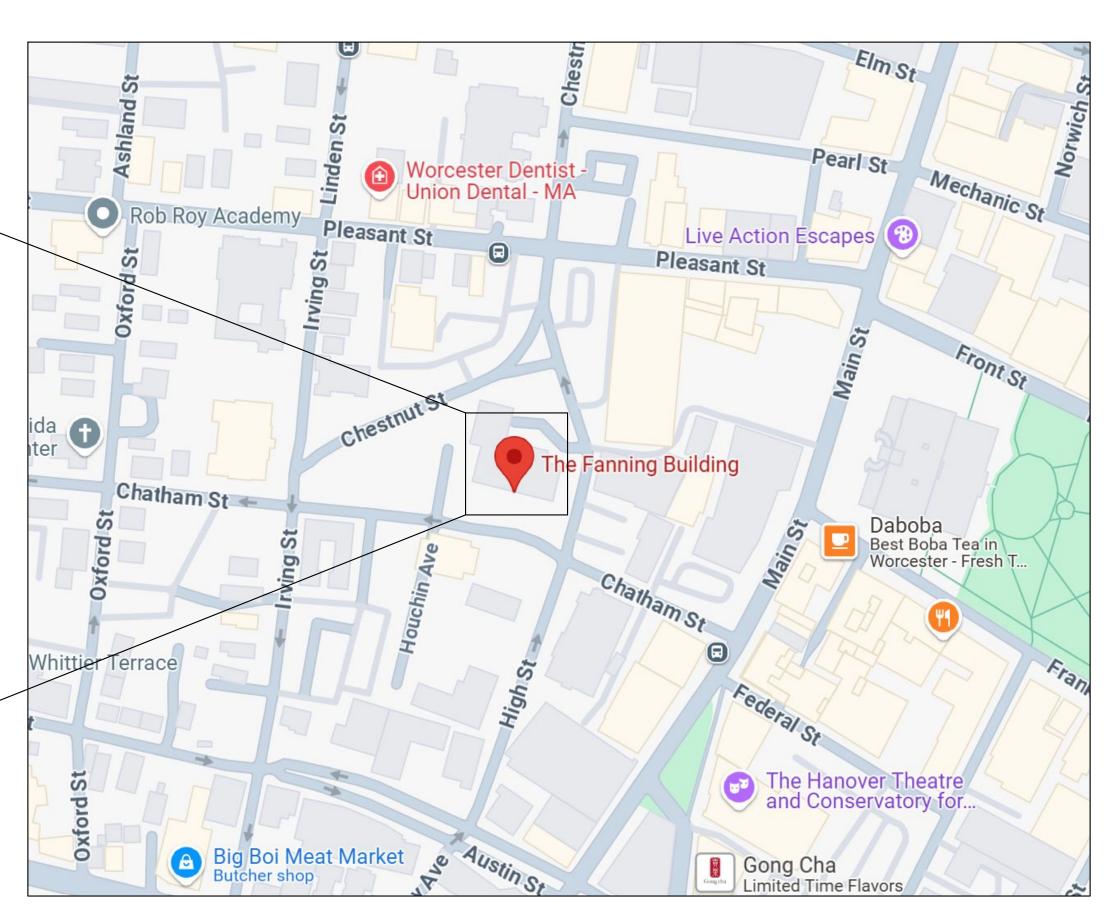
MARCH 6, 2025



FAX: (508) 754-4661

SITE PLAN - NOT TO SCALE

WORCESTER, MA 01603



LOCUS - NOT TO SCALE

ARCHITECT:

NAULT ARCHITECTS, INC.
71 HOPE AVENUE TEL: (508)755-6134

ART Engineering

38 Front Street FL 3, Worcester, MA 01608

ELECTRICAL ENGINEER:

LIST OF DRAWINGS

T1 COVERSHEET

AI DEMO PARTIAL PLANS & NEW CONSTRUCT. PLAN, PARTIAL RAMP SECTION AND ELEVATIONS

A2 SECTIONS AND DETAILS

EO ELECTRICAL LEGEND AND NOTES
EI NEW LIGHTING PARTIAL PLAN & DEMO PARTIAL PLAN

COVER SHEET

OB NUMBER: 17 OB TITLE

DRAWING TITLE

ENTRY RENOVATIONS AT THE FANNING SCHOOL FOR WORCESTER PUBLIC SCHOOLS

CONSULTANT

ARCHITECT

NAULT ARCHITECTS, INC

71 HOPE AVENUE
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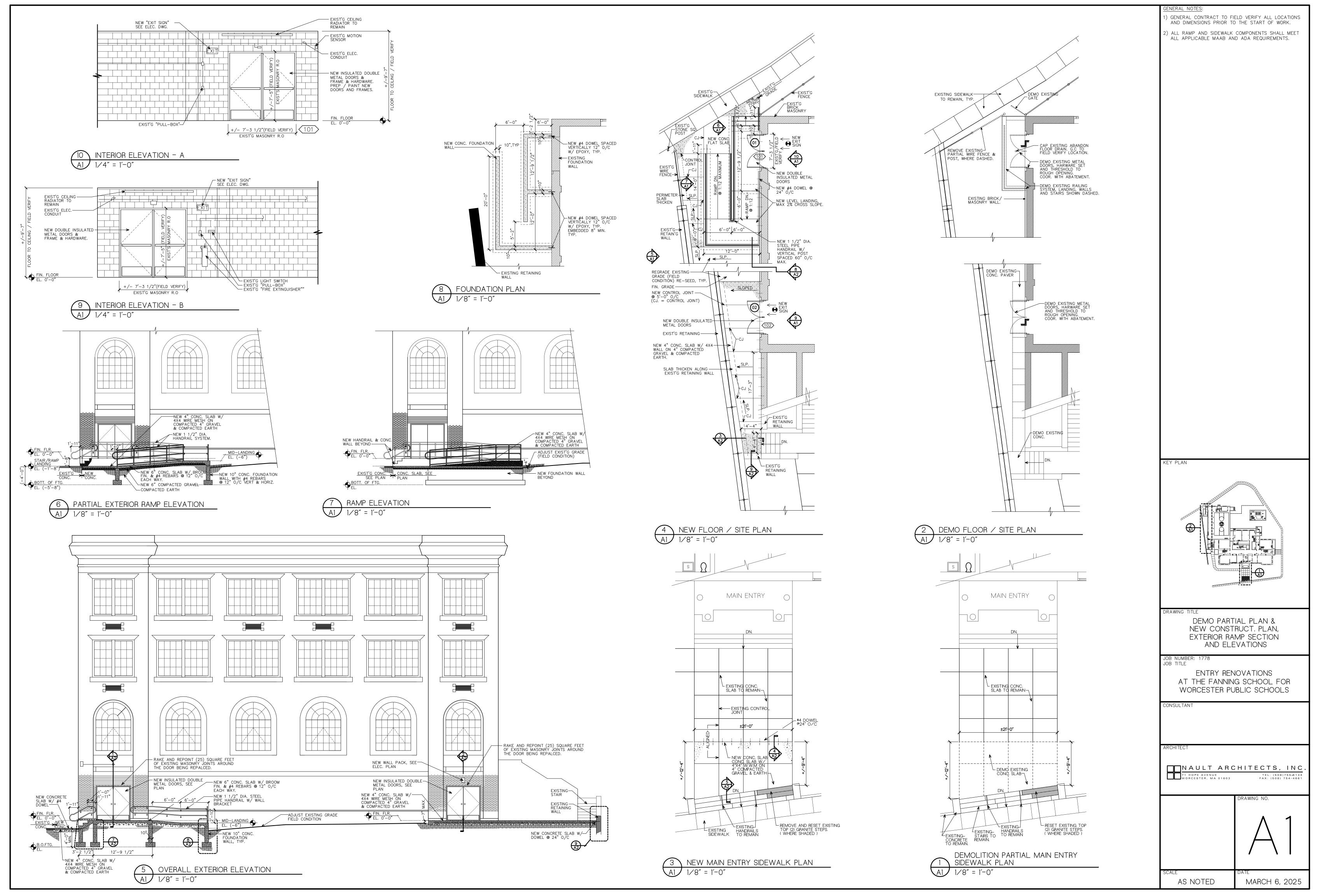
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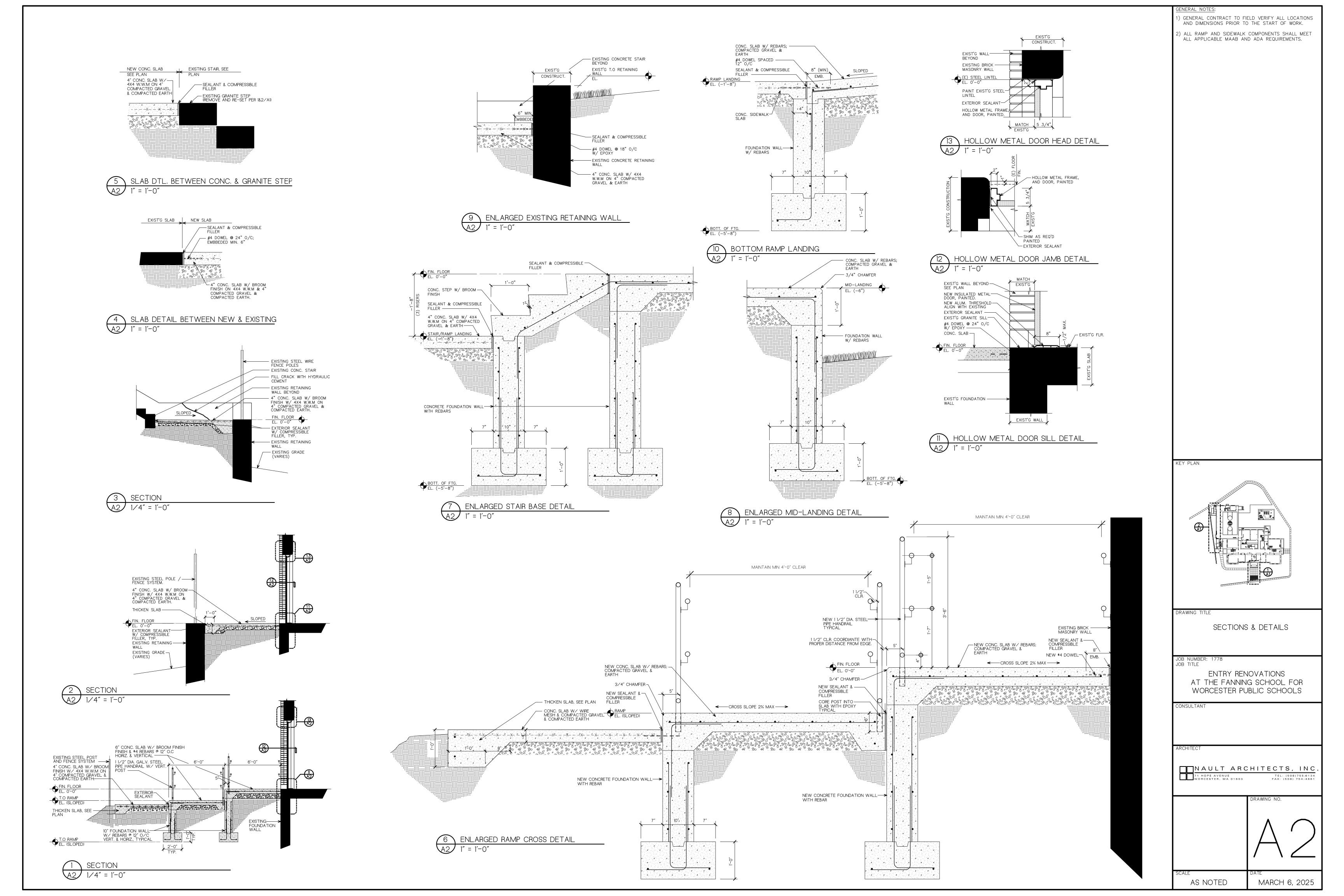
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AS NOTED

DATE

MARCH 6, 2025





DEMOLITION LEGEND

LIGHTING FIXTURE

. EXIT SIGN

-*-*-* - EXISTING DEVICES/EQUIPMENT TO BE REMOVED TOGETHER WITH ASSOCIATED WIRING, CONDUIT, ETC. UNLESS NOTED OTHRWISE.

DEMOLITION ABBREVIATIONS:

- "XR" DENOTES EXISTING DEVICE/OUTLET/FIIXTURF/FOUIPMENT TO BE REMOVED TOGETHER WITH ASSOCIATED WIRING, CONI SURFACE RACEWAY, FTC. AND CIRCUIT PULLED BACK TO NEXT
- ACTIVE OUTLET/BACK TO SOURCE. UNLESS NOTED OTHERWISE "ETR" - DENOTES EXISTING DEVICE/OUTLET/FIXTURE/EQUIPMENT TO REMAIN
- "RP" FXISTING DEVICE/OUTLET/FOUIPMENT TO BE REMOVED AND NEW DEVICE, EQUIPMENT OR FIXTURE AS SPECIFIED INSTALLED ON EXISTING OUTLET, RECONNECT TO EXISTING CIRCUIT. UNLESS
- "XRL" FXISTING DEVICE/OUTLET/FIXTURE/FOUIPMENT TO BE DISCONNECTED, REMOVED AND RELOCATED, EXTEND CONDUIT AND
- "XL" NEW LOCATION OF RELOCATED EXISTING CE/OUTLET/EQUIPMENT. EXTEND CONDUIT AND FEEDERS TO NEW LOCATION.

NOTES FOR DEMOLITION:

WIRING AS REQUIRED.

- 1. ALL DEVICES, OUTLETS, FIXTURES AND FOUIPMENT SHOWN ARE TO BE DEMOLISHED UNLESS NOTED OTHERWISE. SEE ABBREVIATIONS
- 2. MAKE SAFE, DISCONNECT AND REMOVE EXISTING DEVICES. OUTLETS, FIXTURES AND EQUIPMENT TO BE REMOVED OR RELOCATED TOGETHER WITH ASSOCIATED WIRING, CONDUIT BOXES, SURFACE RACEWAY, ETC. AND CIRCUIT PULLED BACK TO NEXT ACTIVE OUTLET/BACK TO SOURCE. UNLESS NOTED
- 3. FOR ALL EXISTING DEVICES AND EQUIPMENT BEING RE-INSTALLED IN NEW CEILING, RECONNECT TO EXISTING POWER SOURCE. UNLESS NOTED OTHERWISE

4. PROVIDE BLANK FACEPLATES FOR ALL EXISTING DEVICES AND OUTLETS BEING REMOVED, FOR BOXES THAT ARE TO REMAIN.

- 5. FOR ALL DEVICES AND EQUIPMENT THAT ARE TO BE REMOVED, SALVAGED AND REINSTALLED. RE-USE EXISTING FEEDERS AND CABLING. COIL EXISTING CABLING WITH CARE TO PREVENT DAMAGE. EXTEND CONDUIT, FEEDERS AND CABLING TO NEW LOCATION OF EXISTING DEVICES AND EQUIPMENT. UNLESS NOTED
- 6. TRACE ALL EXISTING CIRCUITS IN THE SCOPE OF WORK AND UPDATE THE PANEL CIRCUIT DIRECTORY. MARK CIRCUIT BREAKERS AS SPARE FOR CIRCUITS NOT BEING USED.
- 7. EXISTING ELECTRICAL SERVICE WITHIN THE AREA BEING RENOVATED: MAKE SAFE, DISCONNECT, AND REMOVE SERVICE FEEDERS TO LOCAL PANELBOARDS SLATED FOR DEMOLITION, AND ASSOCIATED BRANCH WIRING AND HARDWARE IDENTIFIED FOR DEMOLITION. OBSOLETE CABLES SHALL BE REMOVED BACK TO THE SOURCE AND REMOVED FROM THE SPACE ABOVE THE CEILING AND SPACE BELOW THE RAISED FLOOR. NO WORK SHALL BEGIN WITHOUT PROPER PERMITS AND AUTHORIZATIONS. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS OBTAIN PERMISSION FROM OWNER AT LEAST (2) WEEKS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM.
- 8. EXISTING ELECTRICAL PANELS IN ROOMS OUTSIDE SCOPE OF WORK THAT SERVE SPACE BEING RENOVATED: THERMAL IMAGES OF THE EXISTING DISTRIBUTION PANELS SHALL BE TAKEN TO IDENTIFY RESISTIVE CONNECTIONS AND OR OVERLOADED CIRCUITS PRIOR TO RENOVATION.

LIGHTING



"A" DENOTES FIXTURE TYPE "a" DENOTES SWITCH CODE
"L-1" DENOTES PANEL AND CIRCUIT NUMBER

LIGHT FIXTURE WITH EMERGENCY BALLAST

"NL" DENOTES NIGHTLIGHT

EXIT SIGN, SINGLE SIDED

IN THE AREA.

NOTES FOR EGRESS LIGHTING: 1. CONNECT EXIT SIGNS TO THE LINE SIDE OF HE NEAREST EMERGENCY LIGHTING CIRCUIT

2. CONNECT EMERGENCY BATTERY UNITS TO THE LINE SIDE OF THE NEAREST NORMAL LIGHTING

CIRCUIT IN THE AREA. NOTES FOR EMERGENCY POWER CONTROL RELAY:

- 1. WIRE EMERGENCY LIGHT FIXTURES VIA EMERGENCY POWER CONTROL RELAY (EPC) TO BYPASS LOCAL SWITCH CONTROLS DURING EMERGENCY
- 2. WIRE EPC TO EMERGENCY AND NORMAL LIGHTING CIRCUIT (SENSING) IN THE ROOM/SPACE IT SERVES. IF THE ROOM DOES NOT HAVE NORMAL IGHTING CIRCUIT, CONNECT TO NEAREST NORMAL LIGHTING CIRCUIT IN THE AREA.
- 3. LOCATE EPC INSIDE THE BUILDING, ABOVE ACCESSIBLE CEILING, IN ELECTRICAL ROOMS, OR

ELECTRICAL DEMOLITION NOTES

- EXISTING CONDITIONS WERE OBTAINED FROM DRAWINGS AND DATA PROVIDED BY THE OWNER AND A/E FIELD SURVEY. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL CARFFULLY INVESTIGATE AND EXAMINE THE AREA OF WORK SO AS TO SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF
- THE ELECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING ELECTRICAL SERVICES AND CONNECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES FOUND.
- THE ELECTRICAL SUBCONTRACTOR SHALL REFER TO ARCHITECTURAL MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS AND SHALL CARRY IN THE BID ALL DEVICES AND EQUIPMENT WHICH ARE TO BE DISCONNECTED AND REMOVED OR RELOCATED ON THESE DRAWINGS. SUBMISSION OF BID IS CONSIDERED EVIDENCE THAT THIS CONTRACTOR HA VERIFIED ALL EQUIPMENT THAT NEEDS TO BE DISCONNECTED, REMOVED OR
- THE ELECTRICAL SUBCONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH OWNER ALL DEVICES THAT ARE BEING REMOVED AND THAT ARE TO REMAIN PRIOR TO COMMENCING WORK.
- THE ELECTRICAL SUBCONTRACTOR SHALL ASSUME THAT ALL WALLS, FLOORS AND CEILINGS THAT ARE SCHEDULED TO BE DEMOLISHED CONTAIN ELECTRICAL DEVICES, CONDUIT AND ASSOCIATED WIRING (LINE AND LOW VOLTAGE SYSTEMS) TO BE REMOVED. THE ELECTRICAL SUBCONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REMOVING ALL ELECTRICAL DEVICES, CONDUIT AND ASSOCIATED WIRING IN WALLS, FLOORS AND CEILINGS THAT ARE SCHEDULED TO BE DEMOLISHED. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED AFTER THE AWARD OF THE ELECTRICAL
- THE CONTRACTOR SHALL THOROUGHLY REVIEW THESE ELECTRICAL CONSTRUCTION DOCUMENTS PRIOR TO PREPARING A BID FOR THE ELECTRICAL WORK SHOWN. THE ELECTRICAL DEMOLITION PLANS AND DETAILS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL SUBCONTRACTOR SHALL FIELD ERIFY AND COORDINATE WITH ARCHITECT ALL DEVICES THAT ARE BEING REMOVED AND THAT ARE TO REMAIN.
- ELECTRICAL SUBCONTRACTOR SHALL CIRCUIT TRACE AND LABEL ALL EXISTII BRANCH CIRCUITS AND FEEDERS WITHIN THE AREA OF DEMOLITION SCOPE PRIOR TO DE-ENERGIZING AND DISCONNECTION, ALL CIRCUITS WITHIN PANELBOARDS IDENTIFIED FOR REMOVAL SHALL BE TRACED AND LABELED TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION SCOPE LIMIT IS AFFECTED ALL CIRCUIT BREAKERS ASSOCIATED WITH THE DEMOLITION SCOPE SHALL BE DE-ENERGIZED AND LABELED SPARE.

VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS. THE

- THE ELECTRICAL SUBCONTRACTOR SHALL TEMPORARILY SUPPORT ALL ITEMS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION OF BUILDING STRUCTURAL COMPONENTS (WALLS, CEILINGS, ETC.). TEMPORARILY SUPPORTED ITEMS SHALL BE PERMANENTLY SUPPORTED AND INSTALLED WHEN FINALIZED STRUCTURES ARE IN PLACE.
- REPORT DISCREPANCIES TO THE ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
- DISCONNECT ELECTRICAL SYSTEMS (LINE AND LOW VOLTAGE) IN WALLS, FLOORS AND CEILINGS SCHEDULED FOR REMOVAL, REMOVE FEEDERS
 TOGETHER WITH ASSOCIATED CONDUIT, BOXES, ETC. BACK TO THE SOURCE. REFER TO ARCHITECTURAL DRAWINGS.
- SCHEDULE WITH OWNER WORK TO BE PERFORMED IN EXISTING FACILITIES. PERFORM WORK AT TIMES AND UNDER CONDITIONS APPROVED BY THE
- PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
- CONDUIT, ETC, ASSOCIATED WITH MECHANICAL EQUIPMENT BEING REMOVED COORDINATE WITH HVAC, PLUMBING AND FIRE ALARM DRAWINGS. REMOVE CONDUCTORS BACK TO THE SOURCE, UNLESS NOTED OTHERWISE. MARK EXISTING UNUSED CIRCUIT BREAKERS AS SPARE
- . REMOVE ELECTRICAL FIXTURES, DEVICES AND EQUIPMENT NOT REQUIRED TO SUPPLY. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
- CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
- PROVIDE MOUNTING PARTS AND ACCESSORIES FOR ALL DEVICES, FIXTURES, EQUIPMENT, RACEWAY, ETC THAT ARE TO BE RELOCATED
- 3. VERIFY ABANDONED WIRING AND EQUIPMENT SERVE ONLY THE AREAS BEING 9 DISCONNECT ARANDONED OUTLETS AND REMOVE DEVICES REMOVE
- ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED, PROVIDE BLANK COVERS FOR ABANDONED BOXES WHICH ARE NOT REMOVED. COORDINATE FINISH AND COLOR WITH THE ARCHITECT
- D. PROVIDE BLANK FACEPLATES FOR ALL EXISTING DEVICES AND OUTLETS BEING REMOVED, AND FOR BOXES THAT ARE TO REMAIN.
- DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT BACK TO THE SOURCE OF SUPPLY.
- 2. DISCONNECT AND REMOVE ABANDONED LUMINARIES. REMOVE BRACKETS, STEMS, HANGERS AND OTHER ACCESSORIES. WHEN A CIRCUIT IS INTERRUPTED BY REMOVAL OF A DEVICE OR FIXTURE
- FROM THAT CIRCUIT, INSTALL WIRE, CONDUIT, AND ACCESSORIES TO RESTORE SERVICE TO REMAINING DEVICES AND FIXTURES ON THAT CIRCU
- WHERE EQUIPMENT/DEVICES ARE REMOVED FROM EXISTING TO REMAIN PANELBOARDS, THE EXISTING CIRCUIT BREAKER SERVING THE EQUIPMENT, DEVICES SHALL REMAIN AS SPARE UNLESS NOTED OTHERWISE, PROVIDE NEW YPED, UPDATED DIRECTORIES IN EXISTING TO REMAIN PANELS TO REFLECT CHANGES BY THIS RENOVATION AND EXISTING CONDITIONS.
- MAKE SAFE DISCONNECT AND REMOVE EQUIPMENT, LIGHT FIXTURES OR DEVICES BEING RELOCATED. RE-USE EXISTING CIRCUIT TO RECONNECT RELOCATED DEVICES, UNLESS NOTED OTHERWISE.
- . WHERE REMOVAL OF EXISTING FIRE ALARM, COMMUNICATIONS, ELECTRICAL FIXTURE, DEVICE OR EQUIPMENT WILL RESULT IN OUTAGES IN AREA NOT TO BE DEMOLISHED. THIS CONTRACTOR SHALL IMMEDIATELY RECONNECT THA CIRCUIT OR RE-ESTABLISH SERVICE IN THE REMAINING PORTION OF THE
- . USE SUITABLE METHODS TO LIMIT AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN AIR TO THE LOWEST LEVEL OF AIR POLLUTION PRACTICAL. PROVIDE BARRICADES AND OBSERVE SAFETY REGULATIONS.
- . MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS
- COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS. . WHERE PRESENT WORK, ADJACENT CONSTRUCTION AND FINISHES ARE DAMAGED IN THE EXECUTION OF THIS CONTRACT, OR WHERE OPENINGS ARE LEFT DUE TO THE REMOVAL OF CONDUITS, EQUIPMENT, DEVICES OR APPARATUS, THE SAME SHALL BE REPAIRED OR PATCHED TO CORRESPOND IN MATERIAL, QUALITY, SHAPE, AND FINISH WITH THAT OR SIMILAR AND ADJOINING WORK BY GENERAL CONTRACTOR.
- SHOULD ANY DAMAGE DUE TO THE EXECUTION OF THIS CONTRACT OCCUR TO THE FIXTURES, OR ANY OTHER FOUIPMENT OR APPARATUS. SUCH DAMAGES SHALL BE PROPERLY REPAIRED WITH THE SUPPLY OF NEW ARTICLES AND MADE GOOD WITHOUT EXTRA CHARGE.
- CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS IN PANELBOARDS. PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. MARK UNUSED EXISTING BREAKERS/FUSES AS SPARE. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT
- . ANY EXISTING EQUIPMENT THAT IS REMOVED SHALL BE INVENTORIED AND TURNED OVER TO THE OWNER PRIOR TO FINAL INSPECTION. UPON INSPECTION BY THE OWNER, THE CONTRACTOR SHALL DISPOSE OF ANY EQUIPMENT THAT ARE DEEMED USELESS TO THE OWNER. DISPOSE LAMPS ACCORDING TO LOCAL STATE OR FEDERAL LAWS.
- B. EXISTING CONDUIT MAY BE REUSED IF IT IS IN GOOD CONDITION WHEN REMOVED. ALL EXISTING CONDUIT NOT INTENDED TO BE REUSED SHALL BE REMOVED IF POSSIBLE. WHERE IT IS NOT POSSIBLE TO REMOVE CONDUIT (I.E., EMBEDDED IN CONCRETE FLOOR, ETC.) AND WIRING BACK TO THE SOURCE, CUT WIRING AND CONDUIT FLUSH TO THE WALLS, TAG CABLES PER THE NEC. AND ABANDON IN PLACE, WHERE POSSIBLE REUSE BOXES WHERE EXISTING ELECTRICAL DEVICES ARE SHOWN TO BE REMOVED AND REPLACED WITH NEW.

BRANCH CIRCUITS SCHEDULE

BRANCH CIRCUITS SCHEDULE					
120V OR 277V - 1Ø, 2W CIRCUITS CIRCUIT BREAKER CONDUCTOR					
CIRCUIT BREAKER	CONDUCTOR				
20A-1P	2-12 AWG & 1-12 AWG EGC IN 3/4"C				
30A-1P	2-10 AWG & 1-10 AWG EGC IN 3/4"C				
40A-1P	2-8 AWG & 1-10 AWG EGC IN 3/4"C				
50A-1P	2-6 AWG & 1-10 AWG EGC IN 3/4"C				
60A-1P	2-4 AWG & 1-10 AWG EGC IN 1"C				
208V OR 480V - 1Ø, 2W CIRCUITS					
20A-2P	2-12 AWG & 1-12 AWG EGC IN 3/4"C				
30A-2P	2-10 AWG & 1-10 AWG EGC IN 3/4"C				
40A-2P	2-8 AWG & 1-10 AWG EGC IN 3/4"C				
50A-2P	2-6 AWG & 1-10 AWG EGC IN 3/4"C				
60A-2P	2-4 AWG & 1-10 AWG EGC IN 1"C				
208/120V OR 480/277V - 1Ø, 3W CIRCUITS					
20A-2P	3-12 AWG & 1-12 AWG EGC IN 3/4"C				
30A-2P	3-10 AWG & 1-10 AWG EGC IN 3/4"C				
40A-2P	3-8 AWG & 1-10 AWG EGC IN 3/4"C				
50A-2P	3-6 AWG & 1-10 AWG EGC IN 1"C				

60A-2P 3-4 AWG & 1-10 AWG EGC IN 1"C 208V OR 480V - 3Ø, 3W CIRCUITS 3-12 AWG & 1-12 AWG EGC IN 3/4"C 20A-3P 30A-3P -10 AWG & 1-10 AWG EGC IN 3/4"C 40A-3P 3-8 AWG & 1-10 AWG EGC IN 3/4"C -6 AWG & 1-10 AWG EGC IN 1"C 50A-3P -4 AWG & 1-10 AWG EGC IN 1' 60A-3P 208V OR 480V - 3Ø, 4W CIRCUITS 20A-3P 4-12 AWG & 1-12 AWG EGC IN 3/4"C 4-10 AWG & 1-10 AWG EGC IN 3/4"C 30A-3P 40A-3P 4-8 AWG & 1-10 AWG EGC IN 3/4"C 4-6 AWG & 1-10 AWG EGC IN 1"C 50A-3P

- NOTES: . TYPE MC CABLE SHALL INCLUDE FULL SIZE INSULATED GROUND CONDUCTOR. SIZES AS INDICATED IN SCHEDULE.
- UPGRADE WIRE SIZE ACCORDING TO VOLTAGE DROP CHART.

UPGRADE FEEDER SIZES NOT INCLUDED IN VOLTAGE DROP CHART TO REQUIREMENTS IN ACCORDANCE WITH THE NEC.

60A-3P

VOLTAGE DROP CHART

4-4 AWG & 1-10 AWG FGC IN 1"C

	120V CKTS. / MAX. LENGTH						
LOAD UP TO	CONDUCTOR SIZE #12	CONDUCTOR SIZE #10	CONDUCTOR SIZE #8				
800 VA	155 FT	245 FT	390 FT				
1000 VA	125 FT	195 FT	310 FT				
1200 VA	105 FT	165 FT	260 FT				
1400 VA	90 FT	140 FT	220 FT				
1600 VA	80 FT	125 FT	195 FT				
1800 VA	70 FT	110 FT	175 FT				
277V CKTS. / MAX. LENGTH							
2000 VA	330 FT	525 FT	830 FT				
2500 VA	265 FT	420 FT	665 FT				
3000 VA	220 FT	350 FT	555 FT				
3500 VA	190 FT	300 FT	475 FT				
4000 VA	165 FT	260 FT	415 FT				

BRANCH CIRCUIT WIRING

WIRING SHOWN ON DRAWINGS IS FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.

ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT

ALL 120V SINGLE PHASE CIRCUITS SHALL HAVE DEDICATED

NEUTRALS. NO SHARED NEUTRALS WILL BE ALLOWED.

BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.

SHOWN, IT IS THE INTENT OF THESE DRAWINGS THAT A COMPLETE

MEP COORDINATION

QUIPMENT TO BE PROVIDED WITH LOCAL DISCONNECT SWITCHES. THE

VARIABLE FREQUENCY DRIVES / VARIABLE SPEED DRIVES (VFDs/VSDs) SHALI

ELECTRICAL SUBCONTRACTOR. COORDINATE EXACT LOCATION OF VARIABLE

BE SUPPLIED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE

FREQUENCY DRIVES / VARIABLE SPEED DRIVES WITH MECHANICAL PLANS THE ELECTRICAL SUBCONTRACTOR SHALL PROVIDE AUX CONTACTS /

MICRO-SWITCHES IN THE DISCONNECT WIRED TO THE VFD. ALL CONTROL

CONTRACTOR, INSTALLED AND WIRED BY THE ELECTRICAL SUBCONTRACTOR.

LINE VOLTAGE THERMOSTATS SHALL BE SUPPLIED BY THE MECHANICAL

THE ELECTRICAL SUBCONTRACTOR SHALL COORDINATE THE EXACT

LOCATIONS OF THE HVAC. FIRE PROTECTION AND PLUMBING SYSTEM

ALL EXTERIOR MOUNTED DISCONNECT SWITCHES, SAFETY SNAP SWITCHES

PROVIDE WEATHERPROOF RECEPTACLES WITH WHILE-IN-USE COVERS FOR

COORDINATE THE EXACT LOCATION OF ALL ELECTRICAL DEVICES WITH THE

DUCT MOUNTED SMOKE DETECTORS ARE TO BE SUPPLIED BY THE ELECTRICAL

SUBCONTRACTOR (FIRE ALARM EQUIPMENT SUPPLIER), INSTALLED IN THE DUCTWORK BY THE HVAC CONTRACTOR. WIRED BY THE ELECTRICAL

D. ALL EQUIPMENT, DEVICES AND INSTALLATION MATERIALS LOCATED IN THE

SIMILAR AREAS SHALL BE OF WEATHER PROOF TYPE.

SHOWER ROOM, COLD ROOM, ICE RINK, GARAGES, BUILDING EXTERIOR AND

FURNISH AND INSTALL FIRE RATED 3/4" PLYWOOD PAINTED BLACK ON BOTH

SIDES, ON ALL THE WALLS IN THE COMMUNICATIONS ROOMS, DATA ROOMS,

INSTALLED. THE PLYWOOD SHALL BE INSTALLED FROM 2'-0" AFF TO 8'-0' AFF

TELECOM ROOMS, AND SERVER ROOMS/CLOSETS AND IN ALL ROOMS AND CLOSETS WHERE COMMUNICATIONS AND SECURITY EQUIPMENT IS TO BE

PROVIDE MEP/FP COORDINATION DRAWINGS FOR APPROVAL PRIOR TO

AND ASSOCIATED DEVICES SHALL BE WEATHERPROOF AND RATED NEMA 3R.

DEVICES AND EQUIPMENT IN THE FIELD PRIOR TO ROUGH-IN.

WIRING SHALL BE BY THE MECHANICAL CONTRACTOR

ALL EXTERIOR OUTLETS

INSTALLATION OF WORK.

SUBCONTRACTOR.

ARCHITECT PRIOR TO ROUGH-IN.

ALL ELECTRICALLY POWERED HVAC, FIRE PROTECTION AND PLUMBING

SWITCHES SHALL BE PROVIDED BY THE ELECTRICAL SUBCONTRACTOR

- NEW WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL
- . ALL SWITCH CONTROLS SHALL BE PROVIDED WITH NEW WIRING AND CONDUIT AS REQUIRED.
 - - ALL WORK INCLUDING DEVICES, OUTLETS, FIXTURES, WIRING, CONDUIT,
 - RACEWAY, EQUIPMENT, ETC. SHOWN ON THE ELECTRICAL PLANS IS NEW WORK AND SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL SUBCONTRACTOR OR THEIR SUB-CONTRACTORS, UNLESS NOTED OTHERWISE
 - ALL NEW OUTLETS, DEVICES, FIXTURES, WIRING, CONDUIT, RACEWAY,

 - TYPE THHN INSULATION AND SHALL BE RATED FOR 600V MINIMUM. MINIMUM WIRE SHALL BE #12. ALL WIRING SHALL BE NEW, UNLESS NOTED
 - CCORDANCE WITH THE NEC. LIMIT VOLTAGE DROP TO LESS THAN 3%. FEEDERS SHALL FOLLOW SIMILAR GUIDELINES AND BE LIMITED TO 2% DROP.
 - CIRCUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH FOUIPMENT AND STRUCTURAL
 - . ALL WIRING, INCLUDING BUT NOT LIMITED TO VIDEO SURVEILLANCE SYSTEM, SOUND SYSTEM, ACCESS CONTROL, FIRE ALARM, LIGHTING CONTROL, LOW OLTAGE SYSTEMS, DATA, VOICE, BRANCH CIRCUITS AND FEEDERS SHALL BE
 - NOTED. EMT IS ALLOWED IF NOT SUBJECT TO SEVERE PHYSICAL DAMAGE
 - EMT IS ALLOWED IF NOT SUBJECT TO SEVERE PHYSICAL DAMAGE. . CONDUITS SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTIONS TO MOTORS AND OTHER EQUIPMENT
 - MISCELLANEOUS DEVICES, OUTLET, SWITCHES, JUNCTION, PULL AND TERMINAL BOXES SHALL BE PROVIDED WITH NEMA ENCLOSURE SUITABLE TO THE
 - . ALL WIRING DEVICES, PANEL BOARDS, DISTRIBUTION BOARDS, MOTORS,
 - ARCHITECTURAL DRAWINGS, INDICATE REQUIRED LOCATION OF WIRING DEVICES, COORDINATE ALL COVER PLATE COLORS WITH ARCHITECT.
 - OBTAIN ALL APPROVALS REQUIRED. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF NATIONAL ELECTRIC CODE AND LOCAL AUTHORITIES HAVING JURISDICTION. ALL COMPONENTS SHALL BE UL LISTED. . WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, SPECIFICATIONS, LAWS & RDINANCES, THE MOST STRINGENT SHALL APPLY
 - SUBMIT FOR APPROVAL, COMPLETE SHOP DRAWINGS, LIST OF MATERIALS AND DETAILED DATA OF EQUIPMENT GIVING THE MANUFACTURERS NAME, CATALOG NUMBER, SIZE, CAPACITY AND DIMENSIONS. SUBMIT SHOP DRAWINGS FOR APPROVAL ONLY AFTER VERIFYING ALL DIMENSIONS, CONFIRM THAT THE EQUIPMENT, DEVICES, FIXTURES, ETC. CAN BE INSTALLED WITHOUT MODIFICATIONS, NO EQUIPMENT SHALL BE INSTALLED OR FABRICATED WITHOU OBTAINING APPROVAL. ANY MODIFICATIONS REQUIRED, SHALL BE PROVIDED A
 - BE THE RESPONSIBILITY OF THE ELECTRICAL SUBCONTRACTOR TO VERIFY THE THE SUBSTITUTED SYSTEMS ARE APPROVED EQUAL. IN THE EVENT THAT UNAPPROVED SYSTEMS ARE SUBMITTED FOR APPROVAL, THE ELECTRICAL SUBCONTRACTOR SHALL RETURN THESE SYSTEMS TO THE VENDOR AND FURNISH AND INSTALL APPROVED SYSTEMS AT NO ADDITIONAL COST TO THE OWNER.

NO ADDITIONAL COST TO THE OWNER.

- DOCUMENTS. PROVIDE WITH NEMA ENCLOSURE SUITABLE TO THE ENVIRONMENT. THREE PHASE MOTORS SHALL BE PROVIDED WITH A COMBINATION MAGNETIC MOTOR STARTER WITH AMBIENT COMPENSATED SPECIFIED. PROVIDE (1) SET OF NO AND (1) SET OF NC AUXILIARY CONTACTS.
- . MANUALLY CONTROLLED SINGLE PHASE MOTORS SHALL HAVE FULLY RATED MANUAL MOTOR STARTER SWITCHES WITH OVERLOAD HEATERS IN EACH UNGROUNDED LEG. . THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT
- ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE FOLIPMENT ACTUALLY PURCHASED
- . ALL PANELBOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TO CIRCUIT BREAKER OPERATING HANDLE TO THE FLOOR SHALL NOT EXCEED 6'-6 PROVIDE A MINIMUM OF 3'-0" CLEARANCE FOR ALL 208V ELECTRICAL PANELS
- 5. ALL 15A AND 20A, 125V AND 250V NON-LOCKING RECEPTACLES IN DAMP AND WET LOCATIONS SHALL BE LISTED AS WEATHER RESISTANT TYPE PER NEC. . REFER TO ARCHITECTS INTERIOR ROOM ELEVATIONS FOR EXACT LOCATIONS OF CLOCK OUTLETS/SPEAKER UNITS, INTERCOM HANDSETS, LIGHT FIXTURES, RECEPTACLES AND LIGHT SWITCHES AND OTHER WALL MOUNTED ELECTRICAL FOUIPMENT PRIOR TO ROUGH-IN. CONSULT ARCHITECT PRIOR TO ROUGH-IN
- 8. VERIFY EXACT LOCATION OF CASEWORK AND FURNITURE WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- D. REFER TO HVAC, FIRE PROTECTION, SECURITY, DATA, KITCHEN AND PLUMBING CONSULTANTS DRAWINGS AND ASSOCIATED PROJECT SPECIFICATIONS FOR
- AND PLUMBING EQUIPMENT REQUIRING ELECTRICAL CONNECTION, REFER TO HVAC, FIRE PROTECTION, SECURITY, DATA, KITCHEN AND PLUMBING CONSULTANTS DRAWINGS.
- PLUMBING AND GENERAL CONTRACTOR. . SWITCHGEAR & PANEL DESIGNATIONS ARE INTENDED TO BE INTERPRETED AS INDICATED BELOW:
- ADDITION OF BREAKERS OR STARTERS WITHIN SIZE RANGE SPACE: CONTAINS NECESSARY BUS AND HARDWARE FOR FUTURE ADDITION OF BREAKERS OR STARTERS WITHIN SIZE RANGE
- SPARE: CONTAINS A COMPLETE BREAKER OR STARTER INSTALLED, SIZE AS INDICATED AVAILABLE FOR FUTURE USE
- ANY DISCREPANCIES THAT WOULD CAUSE RECESSED FIXTURES NOT TO FIT INT CEILING SHALL BE REPORTED TO THE ARCHITECT PRIOR TO ORDERING FIXTURE 5. THE ELECTRICAL SUBCONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF OUTLETS FOR THE SMARTBOARDS, PROJECTORS AND SCREENS WITH THE OWNER
- 6. ALL RACKS FOR VOICE/DATA/SERVER/PUBLIC ADDRESS/VIDEO SURVEILLANCE/VIDEO DISTRIBUTION, ETC. SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL SUBCONTRACTOR. IN TELECOMMUNICATIONS
- THE FLECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FIFLD VERIFICATION OF EXISTING ELECTRICAL SERVICES AND CONNECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATEL

OF ANY CONFLICTS OR DISCREPANCIES FOUND PRIOR TO BID.

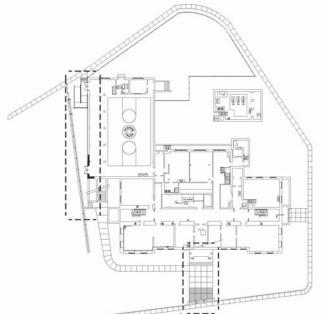
GENERAL NOTES

- ALL RACEWAY SHALL BE CONCEALED UNLESS OTHERWISE NOTED. PROVIDE PULL STRINGS FOR ALL RACEWAYS. COORDINATE ROUTING OF ALL EXPOSED CONDUITS WITH THE ARCHITECT.
- THE SIZES OF ELECTRICAL RACEWAY SHALL BE AS INDICATED ON THE ONTRACT DRAWINGS AND SHALL MEET THE REQUIREMENTS OF THE LOCAL ELECTRIC CODE, 3/4" MINIMUM, OR AS SHOWN ELSEWHERE.
- CONDUIT FOR WIRING CONCEALED IN FLOOR SLABS, OR BELOW GRADE SHALL BE
- EQUIPMENT, ETC SHOWN ON THE ELECTRICAL PLANS SHALL BE PROVIDED WITH ALL PARTS AND ACCESSORIES FOR A COMPLETE INSTALLATION.
- ALL WIRE AND CABLE FOR POWER, LIGHTING, CONTROL INDICATION, ALARM, SIGNAL AND COMMUNICATION SYSTEM, UNIFSS OTHERWISE NOTED, SHALL HAVE
- OTHERWISE. WIRING IN EXCESS OF 70 FEET FOR 120/208V AND 165 FEET FOI 277/480V MUST BE SIZED FOR VOLTAGE DROP. UPGRADE FEEDER SIZES IN
- ALL WIRING INSTALLATION SHALL BE COLOR CODED AS PER THE ELECTRICAL CODE. ALL CONDUCTORS SHALL BE STRANDED TYPE
- ONDITIONS. CONDUITS AND CABLES SHALL BE INSTALLED PARALLEL TO BEAMS
- INSTALLED IN RIGID METAL CONDUIT WHERE EXPOSED. UNLESS OTHERWISE
- . WIRING (NOT SHOWN) FOR THE VIDEO SURVEILLANCE SYSTEM, SOUND SYSTEM ACCESS CONTROL, FIRE ALARM, LIGHTING CONTROL, LOW VOLTAGE SYSTEMS, SHALL BE FURNISHED AND INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS, SEE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL SCOPI OF WORK. EXPOSED WIRING SHALL BE INSTALLED IN RIGID METAL CONDUIT.
- CONDUIT AND WIRING (NOT SHOWN) FOR THE HVAC CONTROL FOUIPMENT AND
- 1. ALL CONDUIT RUNS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION OR
- ETC., SHALL BE GROUNDED AS PER THE NEC.
- FEDERAL CODES, STATE AND LOCAL AUTHORITIES. FILE ALL PLANS, OBTAIN ALI PERMITS, PAY ALL FEES, SCHEDULE ALL INSPECTIONS, MAKE ALL TESTS AND

ALL WORK SHALL BE INSTALLED IN FULL ACCORDANCE WITH LOCAL, STATE &

- . SUBMIT FOR APPROVAL PRODUCTS THAT ARE APPROVED EQUAL ONLY. IT SHALL
- . ELECTRICAL SUBCONTRACTOR SHALL FURNISH AND INSTALL MOTOR STARTERS FOR ALL MOTORS, UNLESS CLEARLY INDICATED OTHERWISE ON THE CONTRAC VERLOAD HEATERS IN EACH UNGROUNDED LEG. SHORT CIRCUIT AND GROUND FAULT PROTECTION SHALL BE BY FUSED DISCONNECT SWITCH AS SHOWN OR
- REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED
- 4. SWITCHES SHALL BE MOUNTED 4'-0" MAX ABOVE FINISHED FLOOR UNLESS RWISE NOTED. RECEPTACLES SHALL BE MOUNTED 1'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- AND 3'-6" CLEARANCE FOR ALL 480V ELECTRICAL PANELS.
- IOULD THE ELECTRICAL DRAWINGS DIFFER WITH THE ARCHITECT'S INTERIOR
- 2. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES IN AREA'S BEING PROVIDED WITH FIN TUBE RADIATION WITH ARCHITECT PRIOR TO
- ADDITIONAL SCOPE OF RELATED ELECTRICAL WORK. I FOR EXACT LOCATION OF HVAC FIRE PROTECTION SECURITY DATA KITCHEN
- 2. CONFIRM EXACT POWER REQUIREMENTS AND CONNECTION LOCATIONS FOR ALI PMENT PRIOR TO INSTALLATION WITH HVAC, FIRE PROTECTION, ELEVATOR
- BLANK: CONTAINS NECESSARY BUS AND HARDWARE FOR FUTURE
- 4. ELECTRICAL SUBCONTRACTOR TO VERIFY ACTUAL CEILING CONSTRUCTION TYPE AND FURNISH ALL LIGHTING FIXTURES WITH THE CORRECT MOUNTING DEVICE ALL PARTS AND ACCESSORIES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE FIXTURE CATALOG NUMBER. THE CONTRACTOR SHALL VERIFY DEPTH OF ALL RECESSED LIGHTING FIXTURES PRIOR TO ORDERING FIXTURES.
- AND ARCHITECT PRIOR TO INSTALLATION.
- FOUIPMENT ROOM (TER) ALL RACKS SHALL BE 4-POST. IN TELECOMMUNICATION ROOMS (TR) ALL THE RACKS SHALL BE 2-POST, UNLESS NOTED OTHERWISE.

KEY PLAN



DRAWING TITLE

ELECTRICAL LEGEND AND NOTES

OB NUMBER: 1778 ENTRY RENOVATION S

AT THE FANNING SCHOOL FOR WORCESTER PUBLIC SCHOOLS CONSULTANT

ARCHITECT

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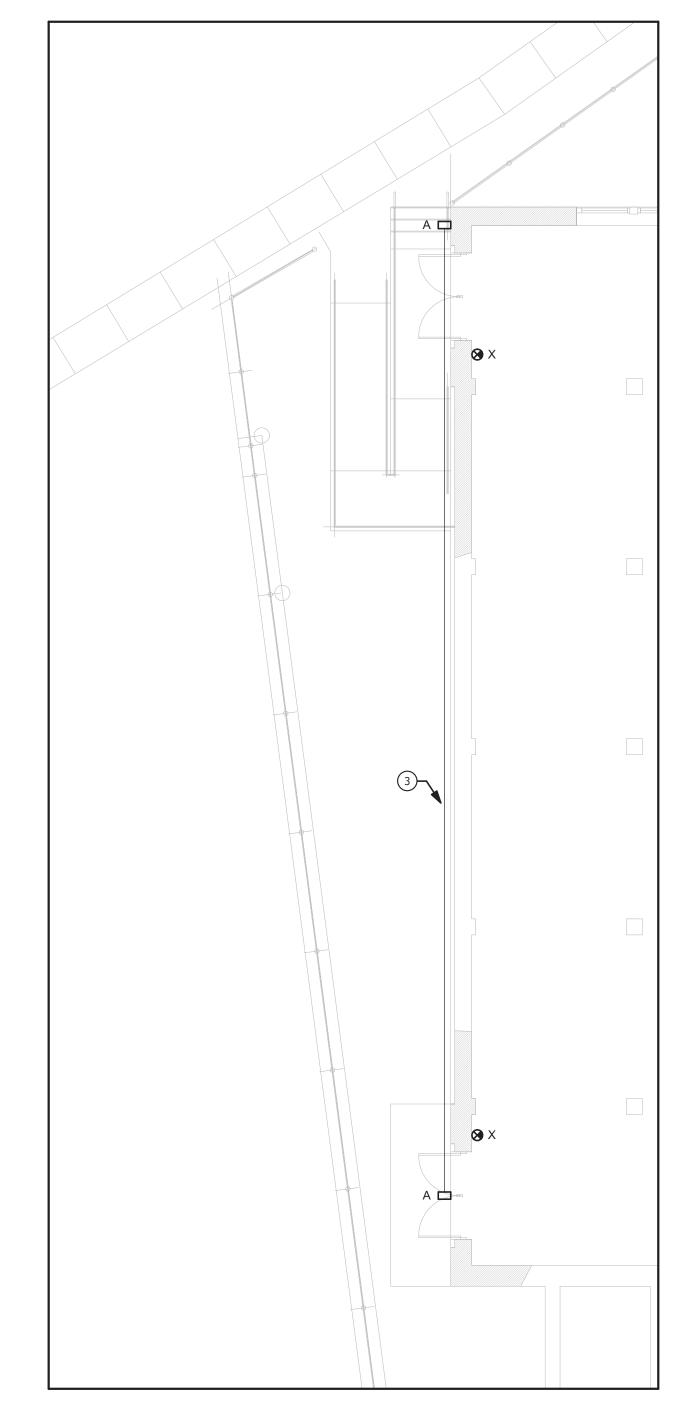
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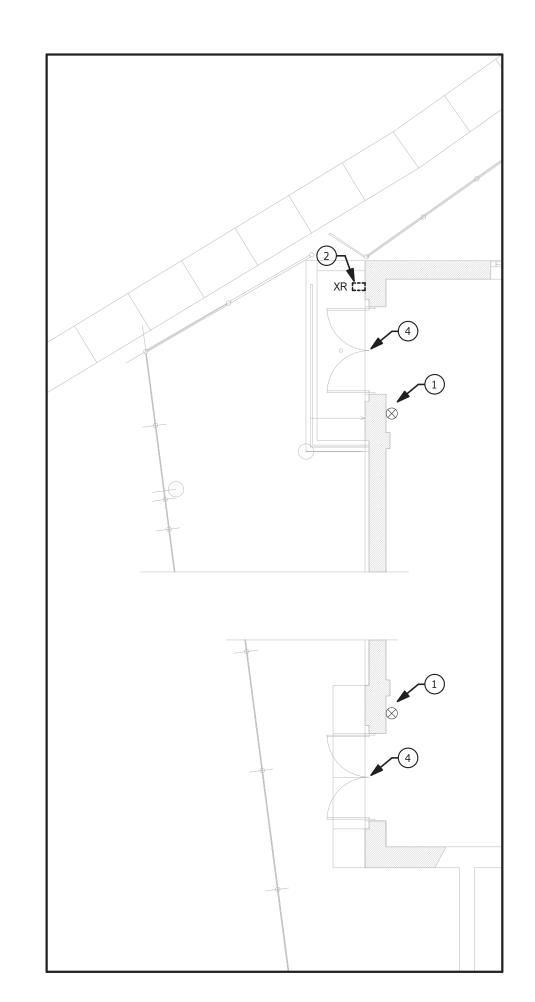
DRAWING NO.

AS NOTED

MARCH 6, 2025







DEMOLITION PARTIAL CEILING PLAN

1/8" = 1'-0"

	LIGHTING FIXTURE SCHEDULE							
TAG	MANUF.	MODEL	DESCRIPTION VOLTAGE	DRIVER	NOTES	TAG		
A		IST-SA1-D-735-U-T3-BK-CBP-TR-BPC-MA1254-BK	LED WALL MOUNTED LUMINAIRE 120 V	0-10V	IMPACT ELITE LED SMALL TRAPEZOID	А		
	ISON							
Х	RADIONIC	ZXE-5000-I-UNV	LED EXIT SIGN RETROFIT KIT		HAS AN INTERNAL POWER SUPPLY	X		

KEYED NOTES FOR E1

1 REMOVE THE INTERIOR OF THE EXISTING EXIT SIGN AND RETROFIT WITH LED KIT. IDENTIFY THE EXISTING EXIT SIGN CIRCUIT AND TEST TO CONFIRM THAT SIGN ILLUMINATES DURING LOSS OF POWER.

GENERAL NOTES

2 MAKE SAFE, DISCONNECT, AND REMOVE THE EXISTING FIXTURE. JUNCTION THE CIRCUIT FOR EXTENSION TO NEW WALL PACKS.

3) 3/4" HEAVY WALL GALVANIZED CONDUIT WITH 2 #12
THHN STRANDED COPPER AND 1 #12 THHN STRANDED
COPPER EQUIPMENT GROUND. TYPICAL FOR CIRCUITRY
FROM THE EXISTING REMOVED WALL PACK TO EACH OF
THE NEW WALL PACKS.

REMOVE THE EXISTING DOOR CONTACTS, MAINTAIN THE EXISTING CIRCUITRY, PROVIDE NEW DOOR CONTACTS ON THE NEW DOORS, RECONNECT THE CIRCUITRY, AND TEST.

KEY PLAN

DRAWING TITLE

NEW LIGHTING PARTIAL PLAN & DEMOLITION PARTIAL PLAN

JOB NUMBER: 1778 JOB TITLE

ENTRY RENOVATIONS AT THE FANNING SCHOOL FOR WORCESTER PUBLIC SCHOOLS

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DRAWING NO.

SCALE 1/8" = 1'-0"

MARCH 6, 2025