FARMINGTON PUBLIC SCHOOLS

Structured Cabling RFP

Appendix B – District Drawings

Client: Farmington Public Schools – Technology Key

Project: 2025 Cabling

plante moran

Technology Design – Structured Cabling Components

▲ D	General Data Cable (1 per location unless otherwise noted)
▲ W	Wireless Access Point Data Cable (1 per location unless otherwise noted)
▲ A	Audio/Visual Data Cable (1 per location unless otherwise noted)
▲ C	Clock Data Cable (1 per location unless otherwise noted)
▲ S	Security Data Cable (1 per location unless otherwise noted)
MDL	Main Distribution Frame
IDL	Intermediate Distribution Frame

Notes

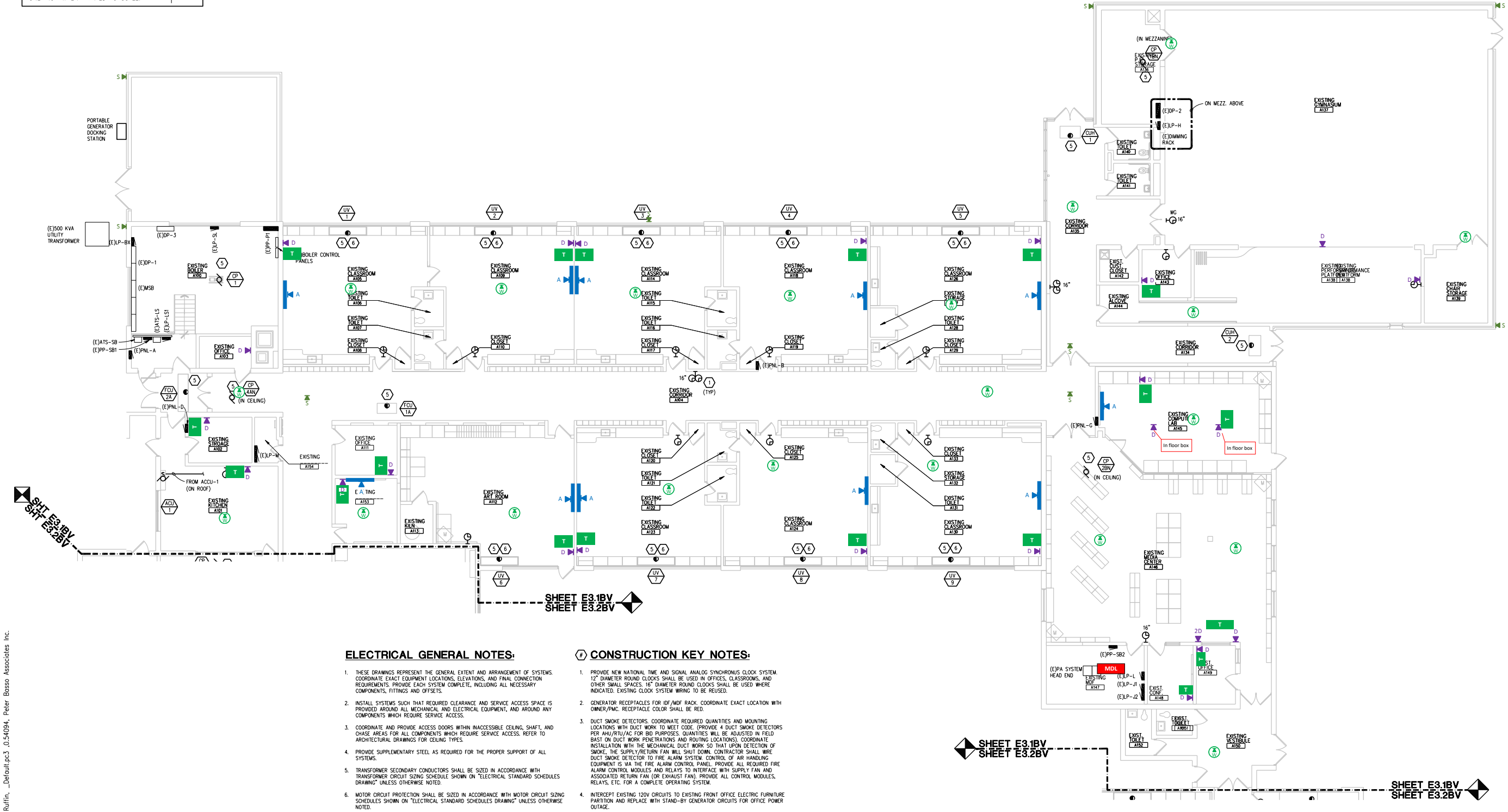
1. Wireless access points, video surveillance and audio/visual data cabling is only to be replaced as part of Add/Alternate 1, unless otherwise noted.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

Client: Farmington Public Schools – Beechview Elementary

Project: 2025 Cabling

plante moran



ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
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7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
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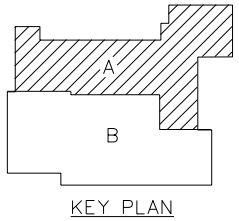
7. NEW CLOCK LOCATION, EXTEND EXISTING CLOCK CIRCUITING IN AREA AS REQUIRED.

POWER NEW WORK PLAN - AREA 'A'

SCALE: 1/8" = 1'-0"



KEY PLAN

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PBA Project No.: 2020.0272

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 9 - 2023 PROJECTS

POWER NEW WORK PLAN - AREA 'A'

BEECHVIEW ELEMENTARY SCHOOL

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

CONSTRUCTION DOCUMENTS SEPTEMBER 26, 2022

DATE: SEPTEMBER 26, 2022

SHEET NO.:
E3.1BV

JOB NO.: 201879

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Client: Farmington Public Schools – Beechview Elementary	plante moran
Project: 2025 Cabling	

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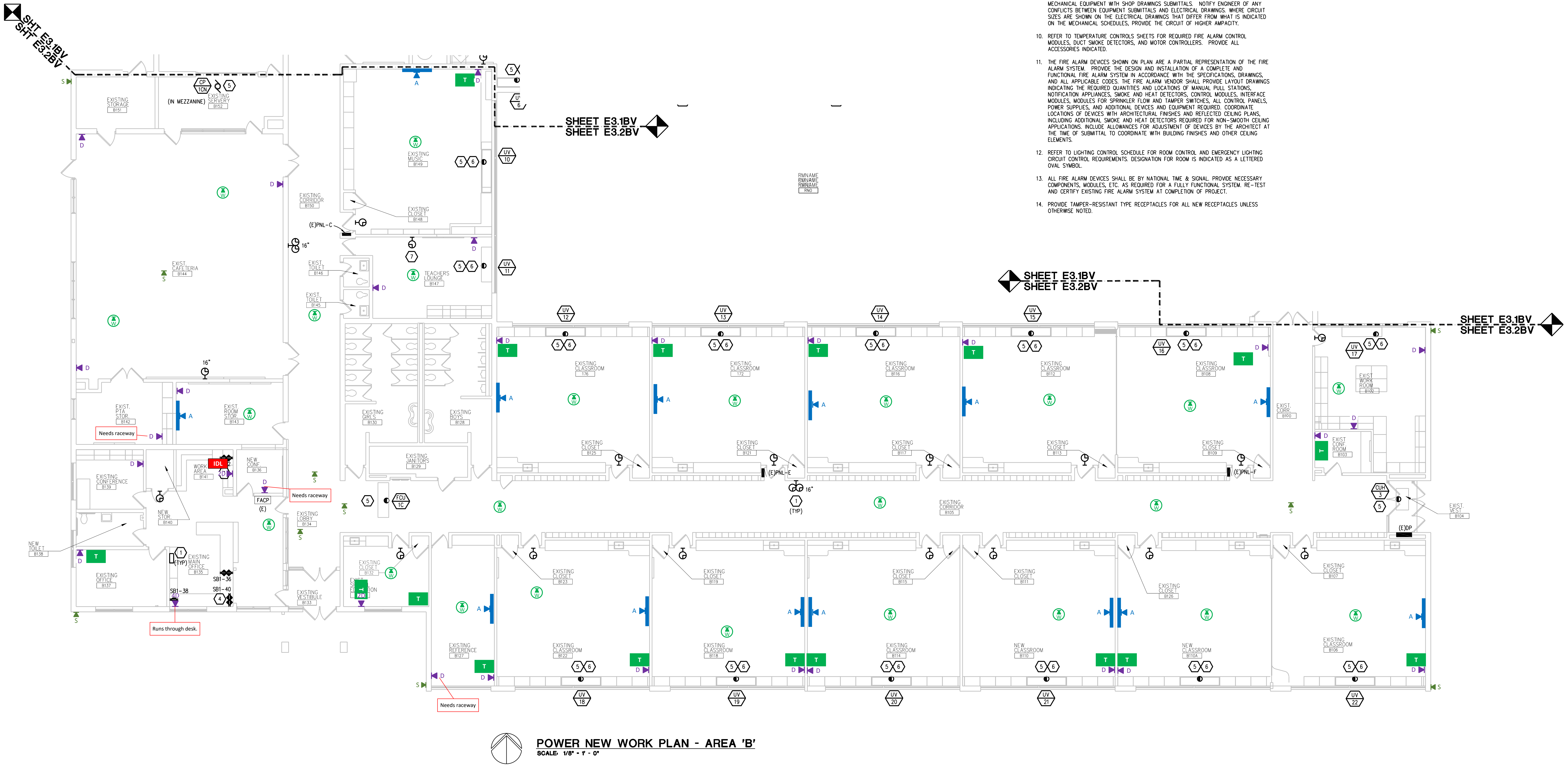
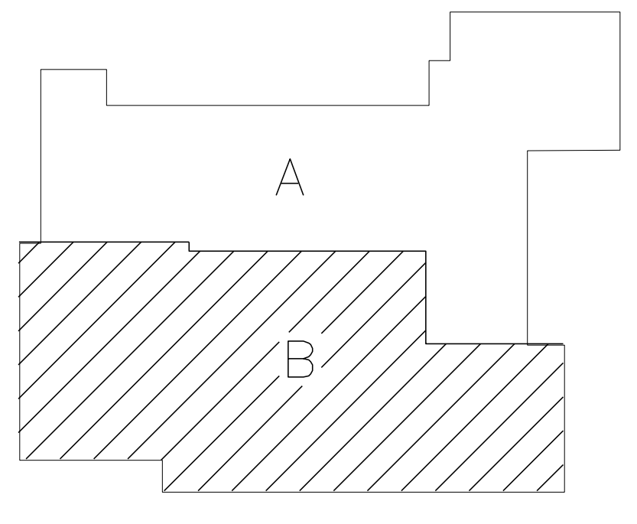


POWER NEW WORK PLAN - AREA 'B'

SCALE: 1/8" - 1' - 0"



KEY PLAN

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PBA Project No.: 2020.0272

FARMINGTON PUBLIC SCHOOLS
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2020 BOND ISSUE - BID PACKAGE No. 9 - 2023 PROJECTS

POWER NEW WORK PLAN - AREA 'B'

BEECHVIEW ELEMENTARY SCHOOL

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

CONSTRUCTION DOCUMENTS SEPTEMBER 26, 2022
DATE: SEPTEMBER 26, 2022
SHEET NO.: E3.2BV
JOB NO.: 201879

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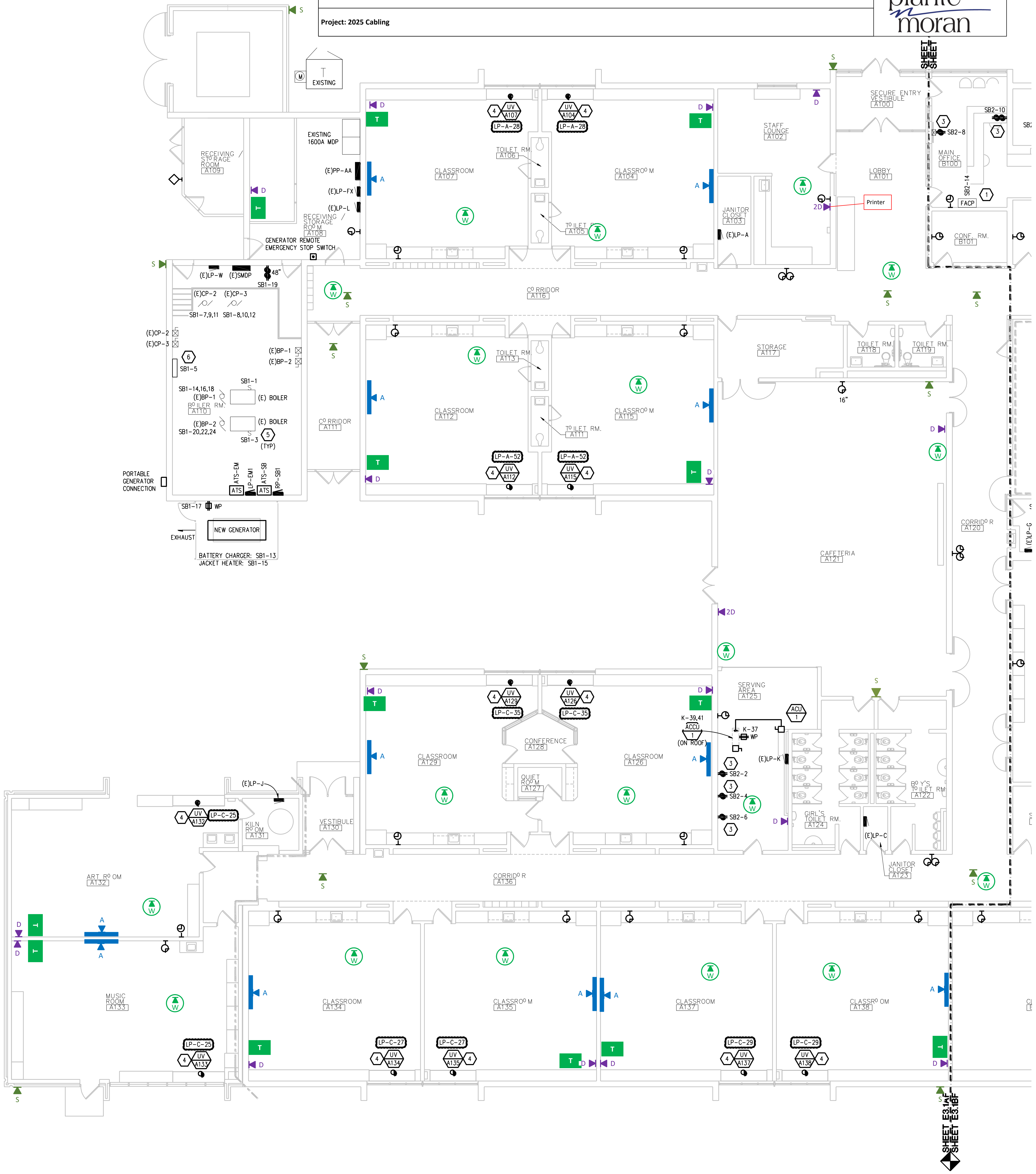
Client: Farmington Public Schools – Forest Elementary

Project: 2025 Cabling

plante moran



FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN - AREA 'A'

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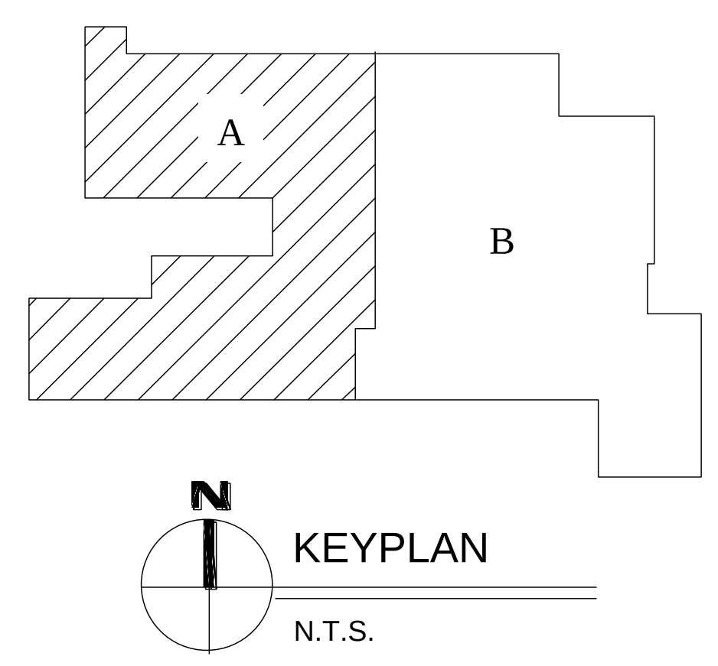

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PBA Project No.: 2020.0273

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 2 - 2021 PROJECTS

FOREST ELEMENTARY

FIRST FLOOR POWER AND
AUXILIARY SYSTEMS PLAN -
AREA 'A'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: JRD
CHECKED BY: STP

REVISIONS:

BULLETIN NO. 8	12-21-2022
CONSTRUCTION	03-01-2021

DATE: JANUARY 28, 2021

SHEET NO.: E3.1AF

JOB NO.: 201879

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Client: Farmington Public Schools – Forest Elementary

Project: 2025 Cabling

plante moran

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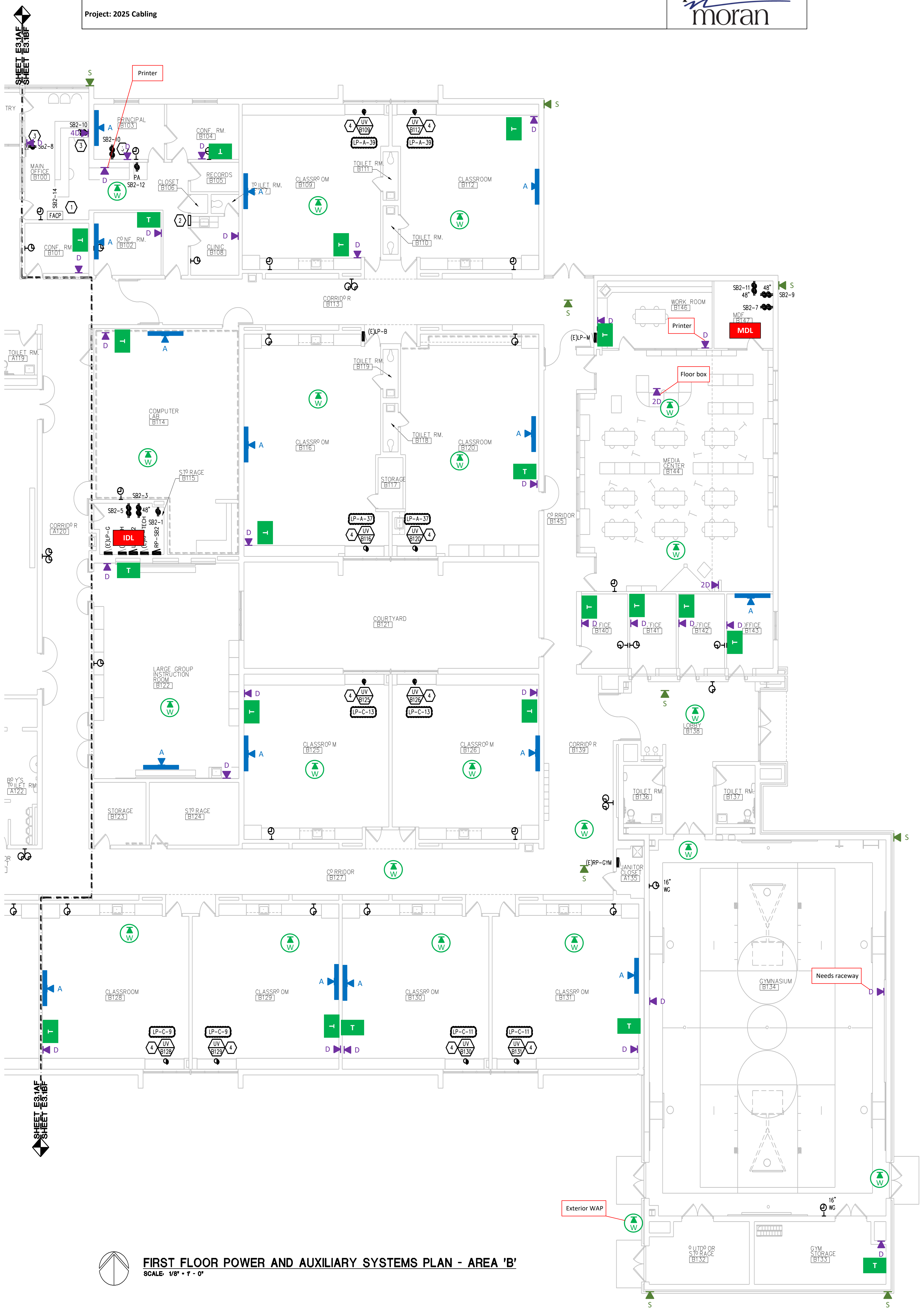

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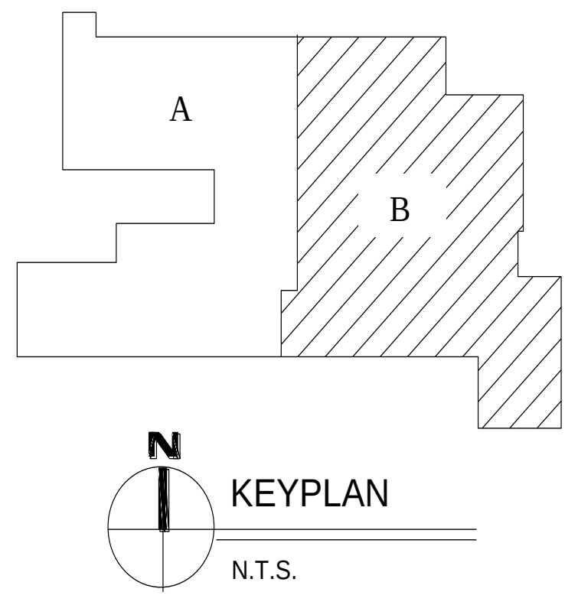
6. CIRCUIT RECEPTACLE SERVING EXISTING BOILER TEMPERATURE CONTROL PANEL TO NEW GENERATOR BRANCH CIRCUIT INDICATED. FIELD VERIFY EXACT LOCATION OF RECEPTACLE.



KEYPLAN
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PBA Project No.: 2020.0273

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 2 - 2021 PROJECTS

FOREST ELEMENTARY

FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN - AREA 'B'

PRELIMINARY	☐
DESIGN DEVELOPMENT	☐
CONSTRUCTION	■
FINAL RECORD	☐

DRAWN BY: JRD
CHECKED BY: STP

REVISIONS:

BULLETIN NO. 8	12-21-2022
CONSTRUCTION	03-01-2021

DATE: JANUARY 28, 2021

SHEET NO.: E3.1BF

JOB NO.: 201879

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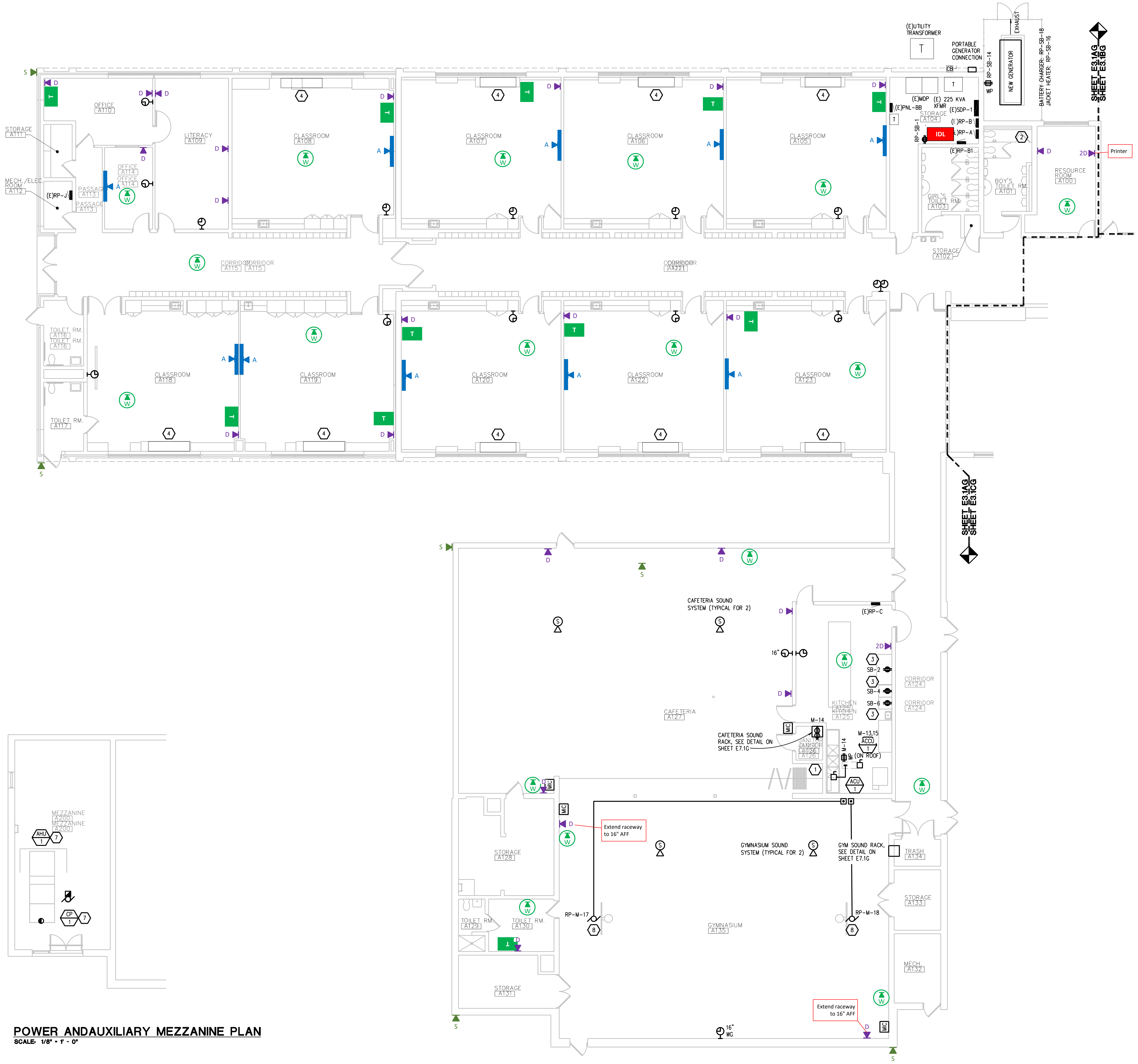
THE FOLLOWING DIMENSION EQUALS
ONE INCH WHEN PRINTED TO SCALE.

Client: Farmington Public Schools –Gill Elementary

Project: 2025 Cabling

plante moran



POWER ANDAUXILIARY MEZZANINE PLAN

SCALE: 1/8" = 1' - 0"

FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN - AREA 'A'

SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
9. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
10. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
11. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TIME AND SIGNAL FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
12. CIRCUIT EXIT SIGNS UNSWITCHED TO HOT LEG OF NEW EMERGENCY LIGHTING BRANCH CIRCUIT SERVING SPACE.
13. EXTEND EXISTING CIRCUIT GROUNDS PER NEC REQUIREMENTS.

CONSTRUCTION KEY NOTES:

1. CIRCUIT EXISTING FIRE ALARM CONTROL PANEL TO NEW GENERATOR CIRCUIT INDICATED. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL MC100 MASTER CLOCK SYSTEM AND CLOCKS THROUGHOUT BUILDING. NEW CLOCKS SHALL BE 12" ROUND ANALOG EXCEPT AT GYMNASIUM AND CAFETERIA WHICH SHALL BE 16".
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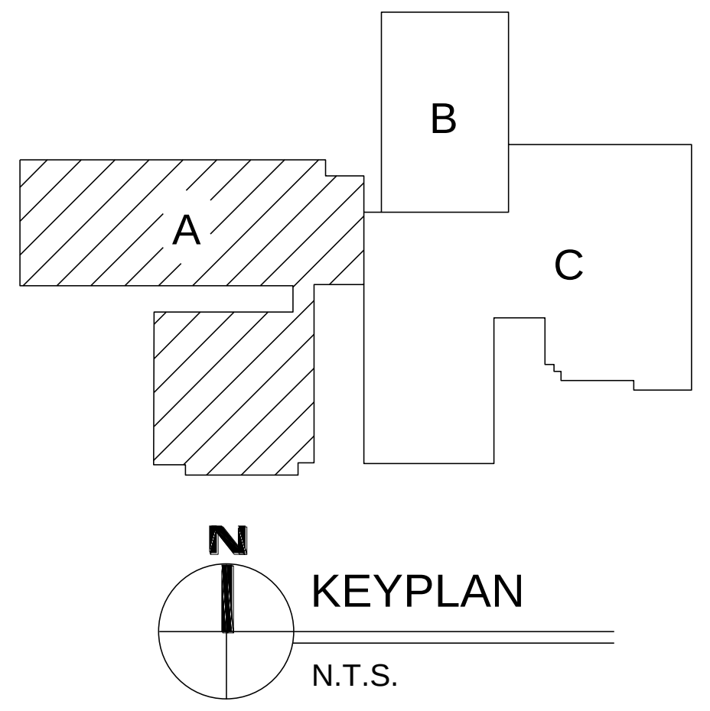
8. CIRCUIT BACKBOARD WINCH MOTORS TO BRANCH CIRCUIT INDICATED. PROVIDE ADDITIONAL CONDUIT AND WIRE AS REQUIRED FOR WINCH MOTOR CONTROLLERS. COORDINATE EXACT REQUIREMENTS WITH BACKBOARD WINCH MOTOR MANUFACTURER.



KEYPLAN

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PBA Project No.: 2020.0274

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 2 - 2021 PROJECTS

GILL ELEMENTARY

FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN - AREA 'A'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: JRD
CHECKED BY: STP

REVISIONS:

CONSTRUCTION	03-01-2021
ADDENDUM #1	FEB 16, 2021

DATE: JANUARY 28, 2021

SHEET NO.:
E3.1AG

JOB NO.: 201879

g:\2020\2020-0274-00\CAD\2020-0274-E3-PP1.dwg, E3.1AG, 3/9/2021 2:23:20 PM, Suha A. Matti, _Default.pc3 ,0.85932, Peter Basso Associates Inc.

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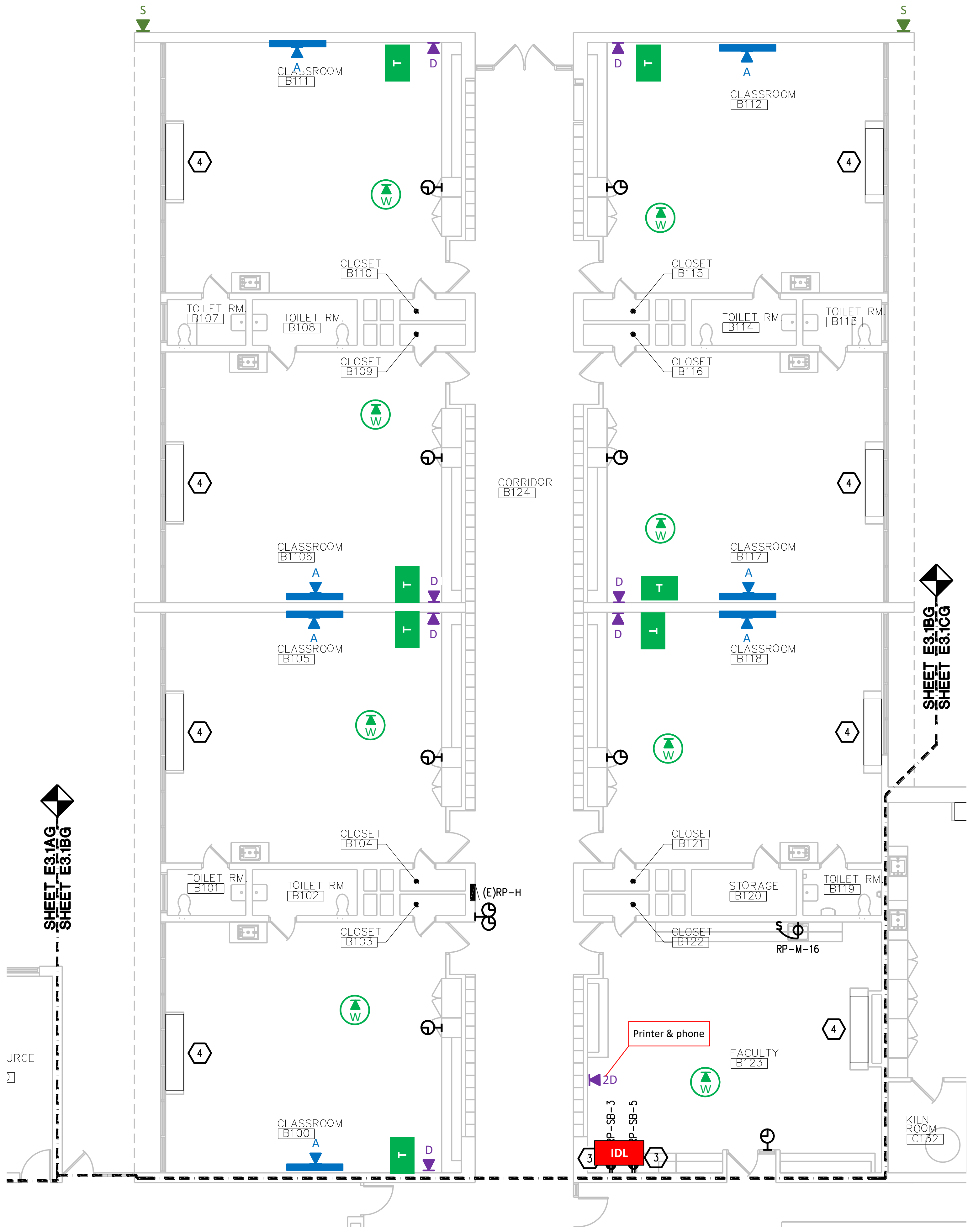
Client: Farmington Public Schools – Gill Elementary

Project: 2025 Cabling

plante moran



FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN - AREA 'B'

SCALE: 1/8" = 1' - 0"

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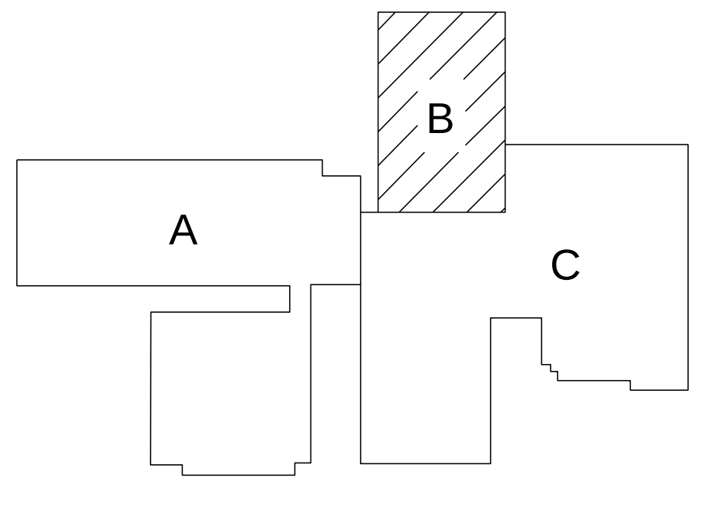

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2020 BOND ISSUE - BID PACKAGE No. 2 - 2021 PROJECTS

GILL ELEMENTARY

FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN - AREA 'B'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: JRD
CHECKED BY: STP

REVISIONS:

CONSTRUCTION	03-01-2021
ADDENDUM #1	FEB 16, 2021

DATE: JANUARY 28, 2021

SHEET NO.:
E3.1BG

JOB NO.: 201879

THE FOLLOWING DIMENSION EQUALS
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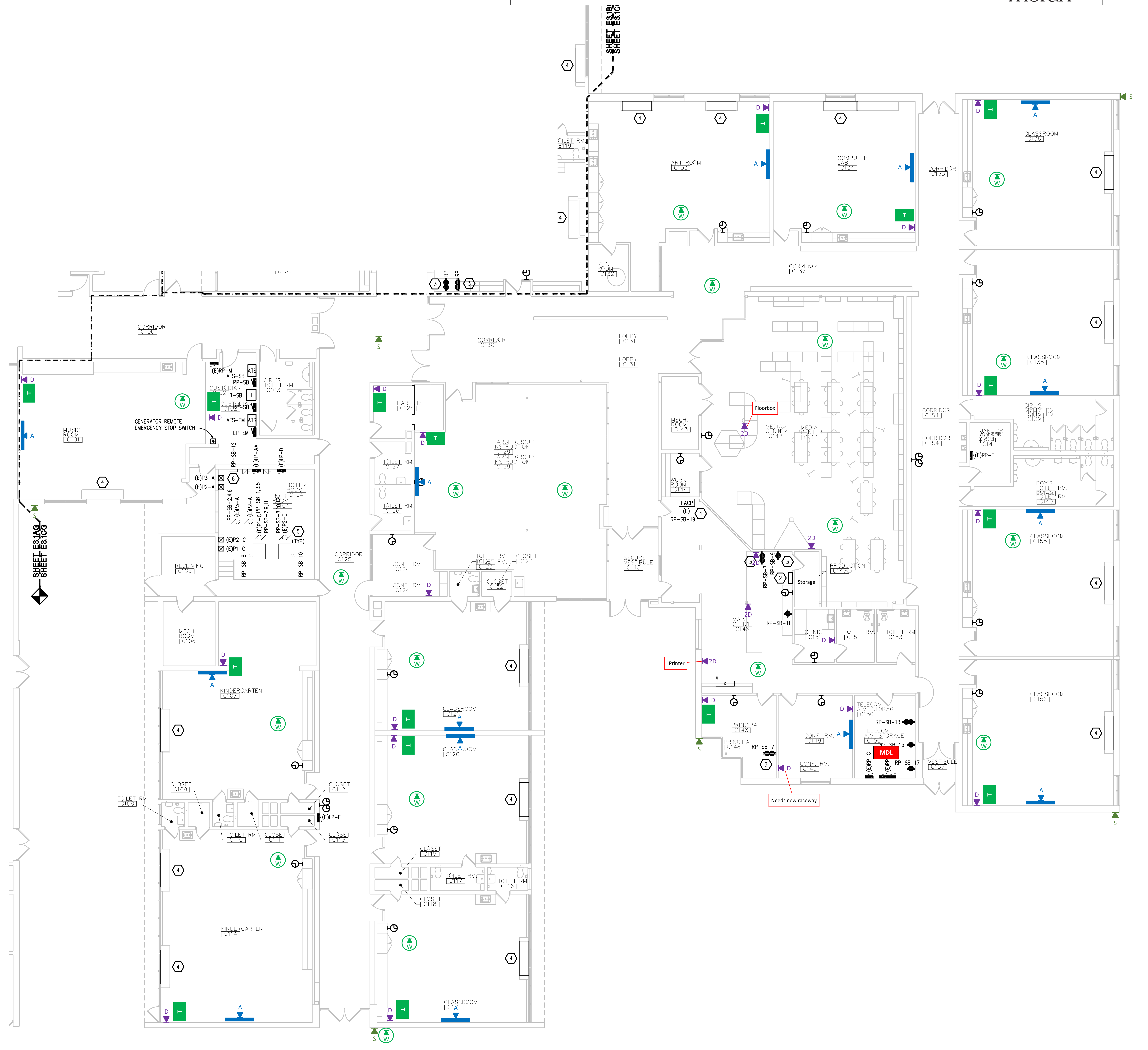
Client: Farmington Public Schools – Gill Elementary

Project: 2025 Cabling

plante moran



FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN - AREA 'C'

SCALE: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

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12. CIRCUIT EXIT SIGNS UNSWITCHED TO HOT LEG OF NEW EMERGENCY LIGHTING BRANCH CIRCUIT SERVING SPACE.
13. EXTEND EXISTING CIRCUIT GROUNDS PER NEC REQUIREMENTS.

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1. CIRCUIT EXISTING FIRE ALARM CONTROL PANEL TO NEW GENERATOR CIRCUIT INDICATED. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED.
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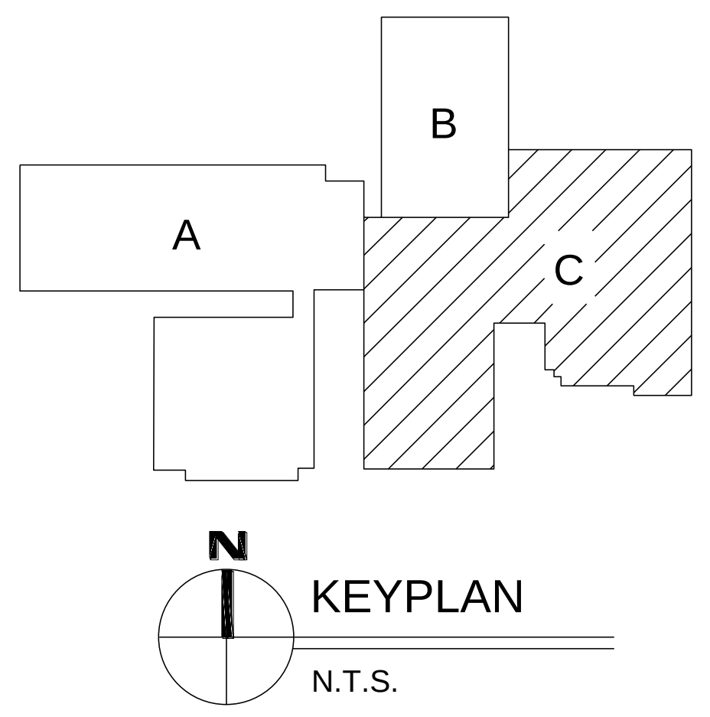

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2020 BOND ISSUE - BID PACKAGE No. 2 - 2021 PROJECTS

GILL ELEMENTARY

FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN - AREA 'C'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: JRD
CHECKED BY: STP

REVISIONS:
CONSTRUCTION 03-01-2021

DATE: JANUARY 28, 2021

SHEET NO.:
E3.1CG

JOB NO.: 201879

g:\2020\2020-0274-00\CAD\2020-0274-E3-PP1.dwg, E3.1CG, 3/9/2021 2:23:31 PM, Suha A. Matti, _Default.pc3 ,0.85932, Peter Basso Associates Inc.

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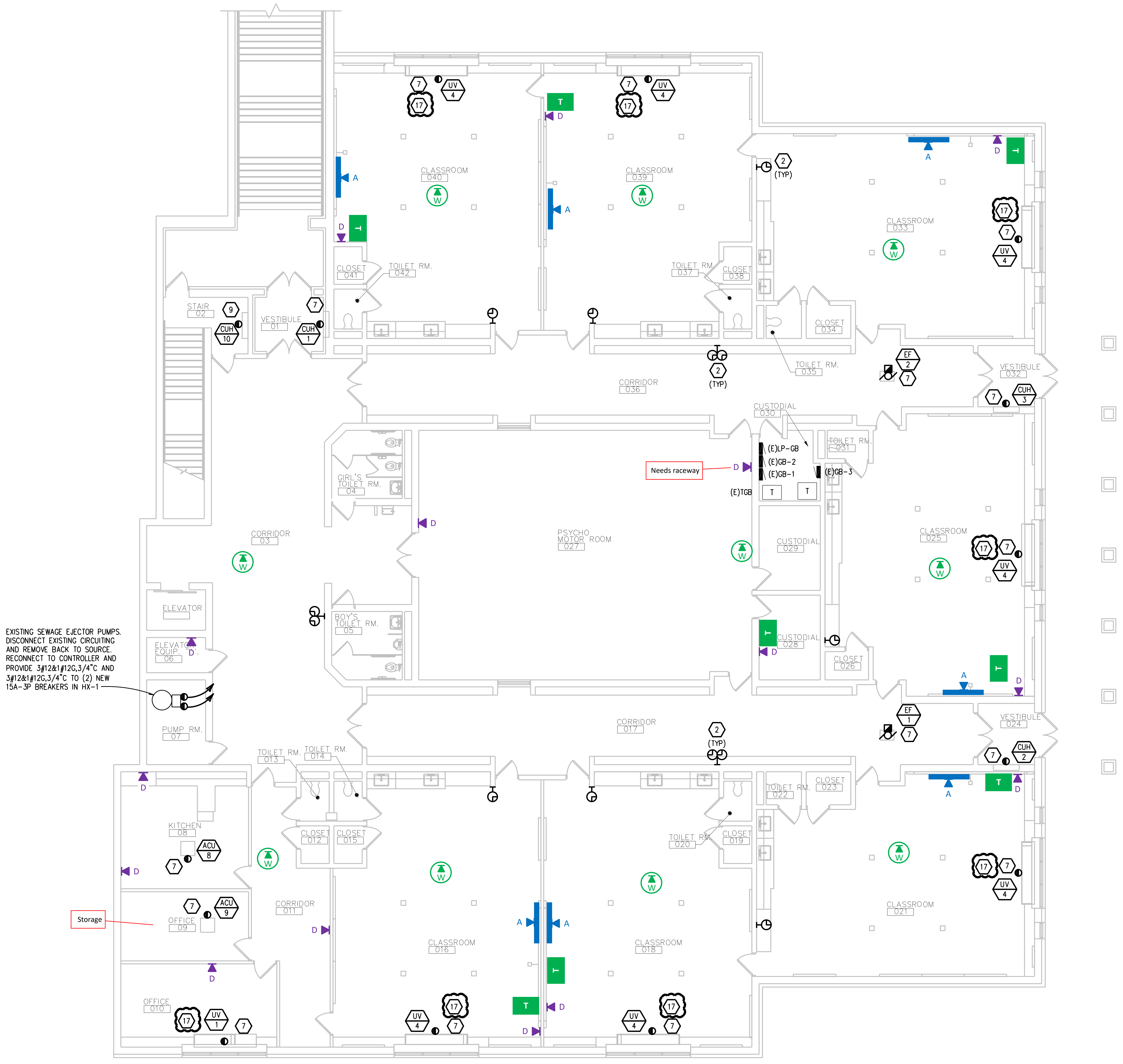
Client: Farmington Public Schools – Hillside Elementary

Project: 2025 Cabling

plante moran



EXISTING SEWAGE EJECTOR PUMPS. DISCONNECT EXISTING CIRCUITING AND REMOVE BACK TO SOURCE. RECONNECT TO CONTROLLER AND PROVIDE 3#12&1#12G,3/4"C AND 3#12&1#12G,3/4"C TO (2) NEW 15A-3P BREAKERS IN HX-1

LOWER LEVEL POWER NEW WORK PLAN - AREA 'A'

SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
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6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
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11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

⟨#⟩ CONSTRUCTION KEY NOTES:

1. PROVIDE NEW 100KW NATURAL GAS GENERATOR, PAD/GROUNDING AND GENERATOR ANNUNCIATOR. CONNECT GENERATOR TO EXISTING STANDBY FEEDER AND PROVIDE NEW EMERGENCY FEEDER. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR WIRING. EXTEND CONDUIT AND WIRE FOR MAINTAINED BRANCH CIRCUITS TO BATTERY CHARGER AND JACKET HEATER.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL ANALOG SYNCHRONUS CLOCK SYSTEM. 12" DIAMETER ROUND CLOCKS SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. 16" DIAMETER ROUND CLOCKS SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
3. CIRCUIT BACKBOARD WINCH MOTORS TO BRANCH CIRCUIT INDICATED. PROVIDE ADDITIONAL CONDUIT AND WIRE AS REQUIRED FOR WINCH MOTOR CONTROLLERS. COORDINATE EXACT REQUIREMENTS WITH BACKBOARD WINCH MOTOR MANUFACTURER.
4. STAND-BY GENERATOR RECEPTACLES FOR REFRIGERATORS. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
5. STAND-BY GENERATOR RECEPTACLES FOR OFFICE POWER OUTAGE AND PA SYSTEM. COORDINATE EXACT LOCATION WITH OWNER. ROUTE CIRCUITING IN IVORY WIREMOLD IN FINISHED AREAS. RECEPTACLE COLOR SHALL BE RED.
6. STAND-BY GENERATOR RECEPTACLES FOR IDF/MDF RACK. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
7. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
8. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
9. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANEL GB3, CONNECT NEW CUH TO NEW BREAKER.
10. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANEL 1B-4, CONNECT NEW CUH TO NEW BREAKER.
11. PROVIDE 15A/2P CIRCUIT BREAKER IN EXISTING PANEL 1A-5, CONNECT NEW SPLIT SYSTEM TO NEW BREAKER.
12. CONNECT TO EXISTING BRANCH CIRCUIT FROM DEMOLITION PHASE.
13. PROVIDE 20A/1P CIRCUIT BREAKER IN EXISTING PANEL 1A-5, CONNECT NEW MOTORIZED BACKBOARDS TO NEW BREAKER.
14. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
15. PROVIDE 30A-3P DISC. SWITCH AND CIRCUIT TO NEW MOTORIZED BLEACHERS. COORDINATE REQUIREMENTS WITH BLEACHER MANUFACTURER. CIRCUIT TO EXISTING BLEACHER BRANCH CIRCUITING, EXTEND CIRCUITING AS REQUIRED.
16. DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BAST ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
17. ELECTRICAL CONTRACTOR SHALL PROVIDE A BUSSMAN PLUG FUSE HOLDER (120 VOLT, IN A 2.25X2.25X4" HANDY BOX, WITH A 15 AMP SCREW-IN EDISON FUSE). MOUNT WITHIN THE UNIT VENT ENCLOSURE AND TIE INTO EXISTING CIRCUITING AHEAD OF UNIT VENT. COORDINATE WITH MECHANICAL CONTRACTOR.
18. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANEL 1A-5, CONNECT NEW UNIT VENTILATOR TO NEW BREAKER.
19. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANEL 1B-2, CONNECT NEW UNIT VENTILATOR TO NEW BREAKER

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PBA Project No.: 2020-0275

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 4 - 2021 PROJECTS

LOWER LEVEL POWER NEW WORK PLAN - AREA 'A'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: STP

REVISIONS:

BULLETIN No 03	05-24-22
CONSTRUCTION	11-19-21
ADD No 01	10-06-21

DATE: NOVEMBER 18, 2021

SHEET NO.: E3.0AHS

JOB NO. 201879

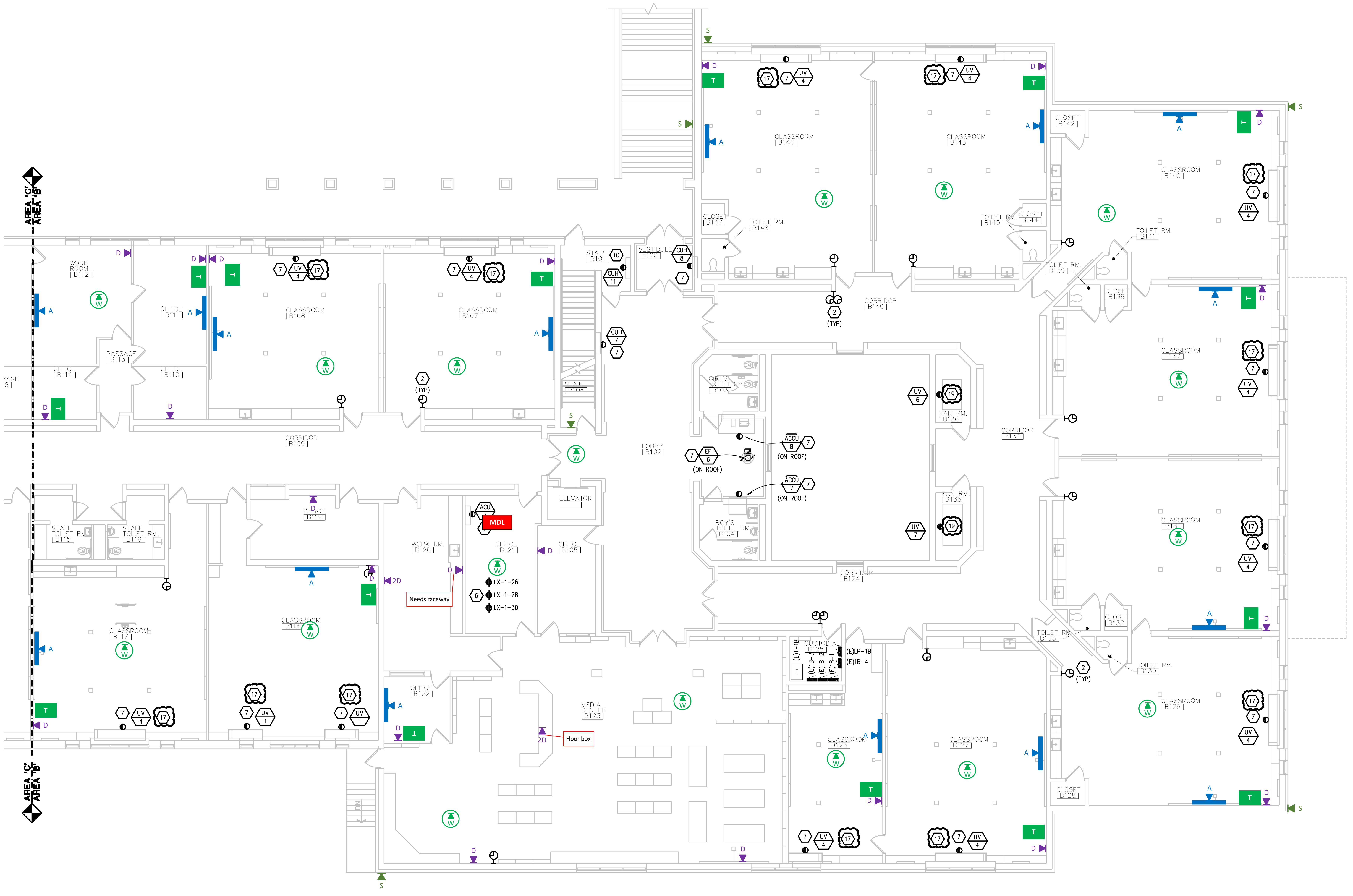
G:\2020\2020-0275-00\CAD\2020-0275-E3-PP0.dwg, E3.0A, 5/23/2022 3:46:28 PM, Gregory J. Ziegler, _Default.pc3 .0.13342, Peter Basso Associates Inc.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

Client: Farmington Public Schools – Hillside Elementary

Project: 2025 Cabling

plante moran



FIRST FLOOR POWER NEW WORK PLAN - AREA 'B'

SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

⟨#⟩ CONSTRUCTION KEY NOTES:

1. PROVIDE NEW 100KW NATURAL GAS GENERATOR, PAD/GROUNDING AND GENERATOR ANNUNCIATOR. CONNECT GENERATOR TO EXISTING STANDBY FEEDER AND PROVIDE NEW EMERGENCY FEEDER. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR WIRING. EXTEND CONDUIT AND WIRE FOR MAINTAINED BRANCH CIRCUITS TO BATTERY CHARGER AND JACKET HEATER.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL ANALOG SYNCHRONUS CLOCK SYSTEM. 12" DIAMETER ROUND CLOCKS SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. 16" DIAMETER ROUND CLOCKS SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
3. CIRCUIT BACKBOARD WINCH MOTORS TO BRANCH CIRCUIT INDICATED. PROVIDE ADDITIONAL CONDUIT AND WIRE AS REQUIRED FOR WINCH MOTOR CONTROLLERS. COORDINATE EXACT REQUIREMENTS WITH BACKBOARD WINCH MOTOR MANUFACTURER.
4. STAND-BY GENERATOR RECEPTACLES FOR REFRIGERATORS. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
5. STAND-BY GENERATOR RECEPTACLES FOR OFFICE POWER OUTAGE AND PA SYSTEM. COORDINATE EXACT LOCATION WITH OWNER. ROUTE CIRCUITING IN IVORY WIREMOLD IN FINISHED AREAS. RECEPTACLE COLOR SHALL BE RED.
6. STAND-BY GENERATOR RECEPTACLES FOR IDF/MDF RACK. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
7. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
8. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
9. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANEL GB3, CONNECT NEW CUH TO NEW BREAKER.
10. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANEL 1B-4, CONNECT NEW CUH TO NEW BREAKER.
11. PROVIDE 15A/2P CIRCUIT BREAKER IN EXISTING PANEL 1A-5, CONNECT NEW SPLIT SYSTEM TO NEW BREAKER.
12. CONNECT TO EXISTING BRANCH CIRCUIT FROM DEMOLITION PHASE.
13. PROVIDE 20A/1P CIRCUIT BREAKER IN EXISTING PANEL 1A-5, CONNECT NEW MOTORIZED BACKBOARDS TO NEW BREAKER.
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15. PROVIDE 30A-3P DISC. SWITCH AND CIRCUIT TO NEW MOTORIZED BLEACHERS. COORDINATE REQUIREMENTS WITH BLEACHER MANUFACTURER. CIRCUIT TO EXISTING BLEACHER BRANCH CIRCUITING, EXTEND CIRCUITING AS REQUIRED.
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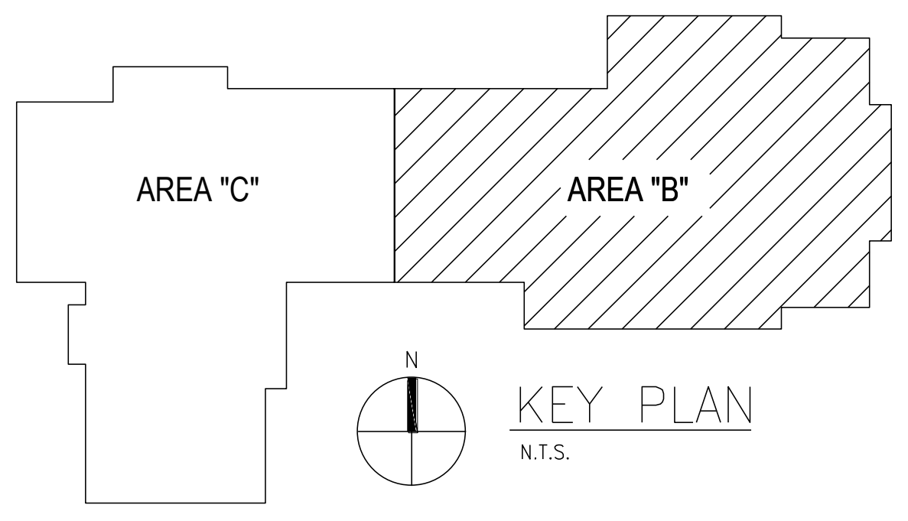
17. ELECTRICAL CONTRACTOR SHALL PROVIDE A BUSSMAN PLUG FUSE HOLDER (120 VOLT, IN A 2.25X2.25X4" HANDY BOX, WITH A 15 AMP SCREW-IN EDISON FUSE). MOUNT WITHIN THE UNIT VENT ENCLOSURE AND TIE INTO EXISTING CIRCUITING AHEAD OF UNIT VENT. COORDINATE WITH MECHANICAL CONTRACTOR.
18. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANEL 1A-5, CONNECT NEW UNIT VENTILATOR TO NEW BREAKER.
19. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANE[illegible]NECT NEW UNIT VENTILATOR TO NEW BREAKER



KEY PLAN
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PBA Project No.: 2020-0275

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 4 - 2021 PROJECTS

FIRST FLOOR POWER NEW WORK PLAN - AREA 'B'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: STP

REVISIONS:

BULLETIN No 03	05-24-22
CONSTRUCTION	11-19-21

DATE: NOVEMBER 18, 2021

SHEET NO.: E3.1BHS

JOB NO. 201879

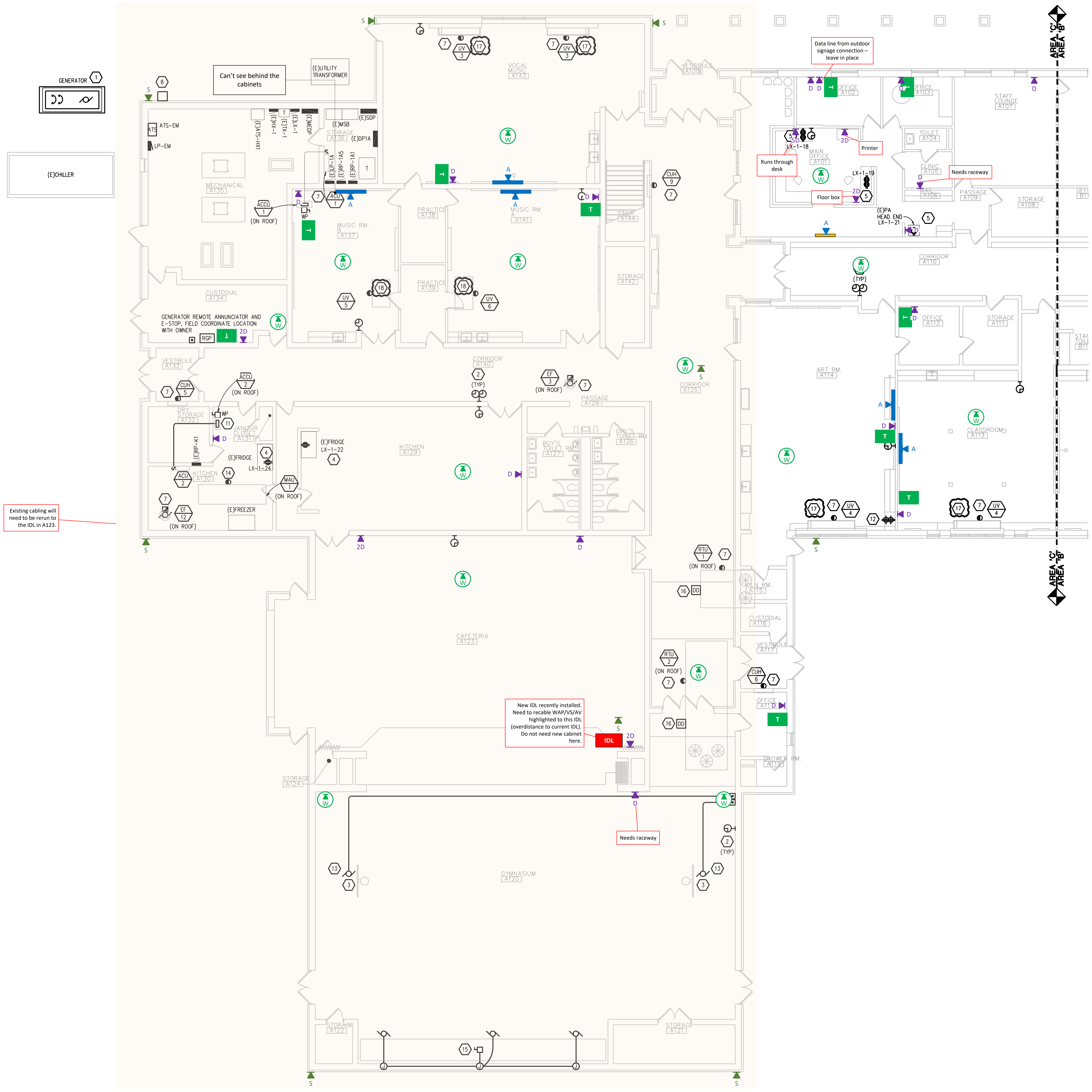
G:\2020\2020-0275-00\CAD\2020-0275-E3-PP1.dwg, E3.1B, 5/23/2022 2:49:57 PM, Gregory J. Ziegler, _Default.pc3 ,0.13342, Peter Basso Associates Inc.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

Client: Farmington Public Schools – Hillside Elementary

Project: 2025 Cabling

plante moran



FIRST FLOOR POWER NEW WORK PLAN - AREA 'C'

SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

⟨#⟩ CONSTRUCTION KEY NOTES:

1. PROVIDE NEW 100KW NATURAL GAS GENERATOR, PAD/GROUNDING AND GENERATOR ANNUNCIATOR. CONNECT GENERATOR TO EXISTING STANDBY FEEDER AND PROVIDE NEW EMERGENCY FEEDER. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR WIRING. EXTEND CONDUIT AND WIRE FOR MAINTAINED BRANCH CIRCUITS TO BATTERY CHARGER AND JACKET HEATER.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL ANALOG SYNCHRONUS CLOCK SYSTEM. 12" DIAMETER ROUND CLOCKS SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. 16" DIAMETER ROUND CLOCKS SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
3. CIRCUIT BACKBOARD WINCH MOTORS TO BRANCH CIRCUIT INDICATED. PROVIDE ADDITIONAL CONDUIT AND WIRE AS REQUIRED FOR WINCH MOTOR CONTROLLERS. COORDINATE EXACT REQUIREMENTS WITH BACKBOARD WINCH MOTOR MANUFACTURER.
4. STAND-BY GENERATOR RECEPTACLES FOR REFRIGERATORS. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
5. STAND-BY GENERATOR RECEPTACLES FOR OFFICE POWER OUTAGE AND PA SYSTEM. COORDINATE EXACT LOCATION WITH OWNER. ROUTE CIRCUITING IN IVORY WIREMOLD IN FINISHED AREAS. RECEPTACLE COLOR SHALL BE RED.
6. STAND-BY GENERATOR RECEPTACLES FOR IDF/MDF RACK. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
7. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
8. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
9. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANEL GB3, CONNECT NEW CUH TO NEW BREAKER.
10. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANEL 1B-4, CONNECT NEW CUH TO NEW BREAKER.
11. PROVIDE 15A/2P CIRCUIT BREAKER IN EXISTING PANEL 1A-5, CONNECT NEW SPLIT SYSTEM TO NEW BREAKER.
12. CONNECT TO EXISTING BRANCH CIRCUIT FROM DEMOLITION PHASE.
13. PROVIDE 20A/1P CIRCUIT BREAKER IN EXISTING PANEL 1A-5, CONNECT NEW MOTORIZED BACKBOARDS TO NEW BREAKER.
14. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
15. PROVIDE 30A-3P DISC. SWITCH AND CIRCUIT TO NEW MOTORIZED BLEACHERS. COORDINATE REQUIREMENTS WITH BLEACHER MANUFACTURER. CIRCUIT TO EXISTING BLEACHER BRANCH CIRCUITING, EXTEND CIRCUITING AS REQUIRED.
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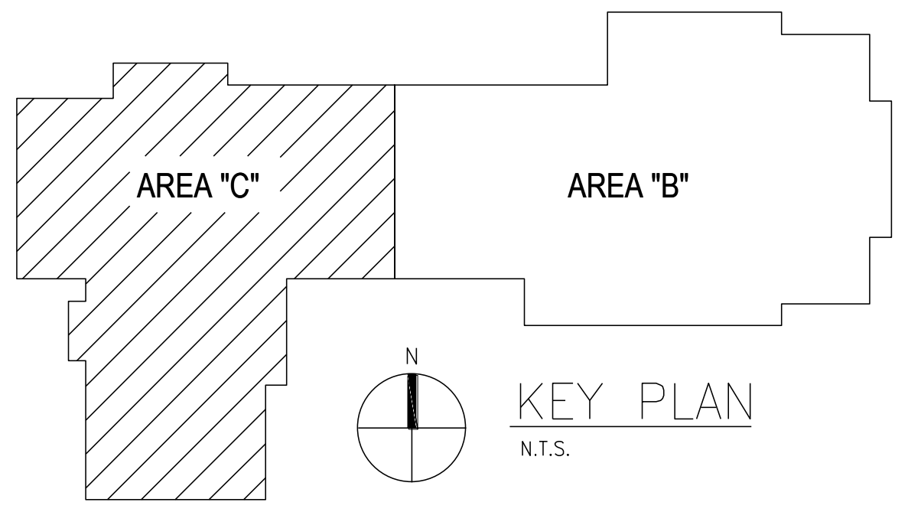
18. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANEL 1A-5, CONNECT NEW UNIT VENTILATOR TO NEW BREAKER.
19. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANE[illegible]NECT NEW UNIT VENTILATOR TO NEW BREAKER



KEY PLAN
N.T.S.

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FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 4 - 2021 PROJECTS

FIRST FLOOR POWER NEW WORK PLAN - AREA 'C'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: STP

REVISIONS:

BULLETIN No 03	05-24-22
CONSTRUCTION	11-19-21

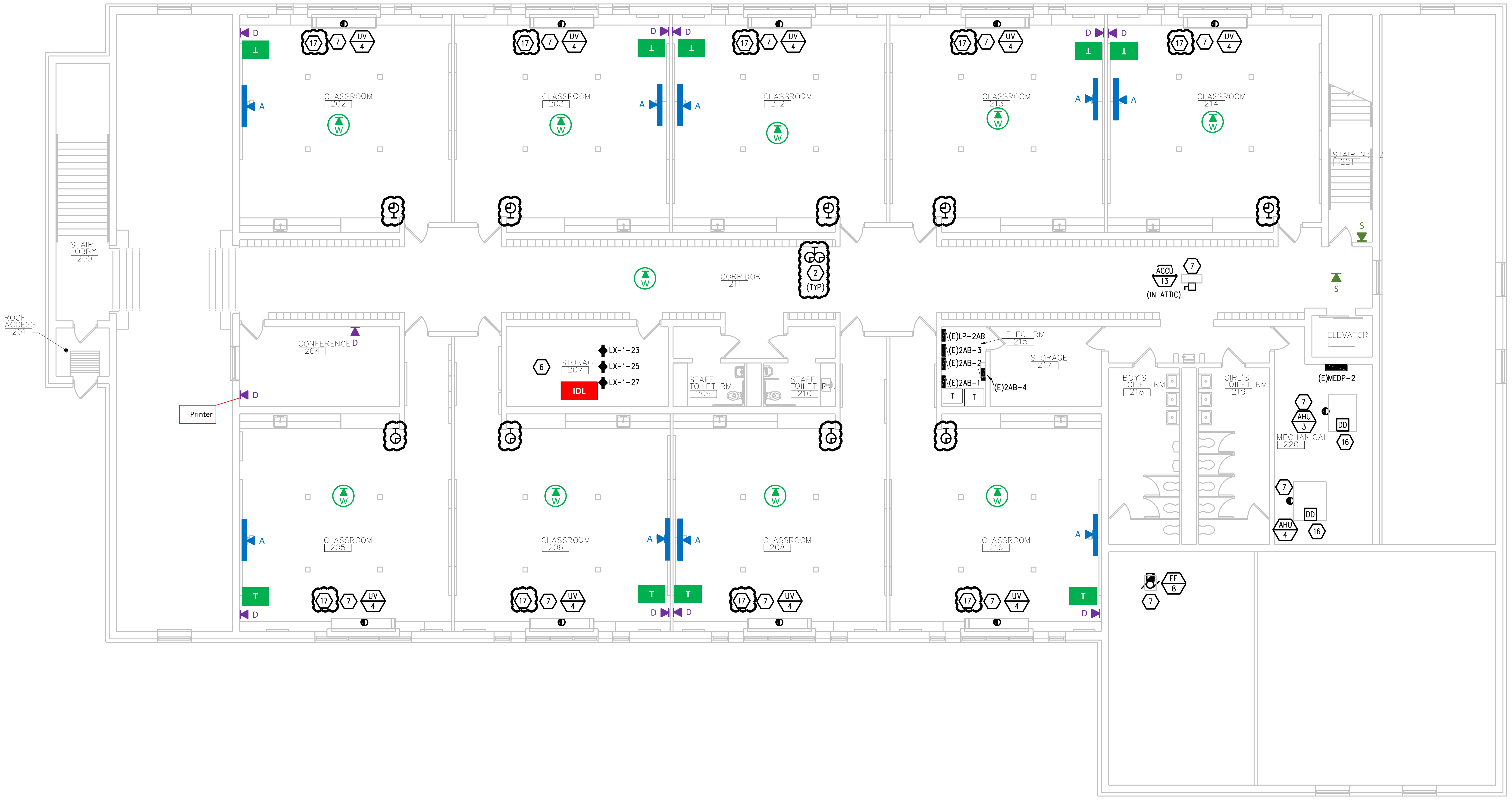
DATE: NOVEMBER 18, 2021

SHEET NO.: E3.1CHS

JOB NO. 201879

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

Client: Farmington Public Schools – Hillside Elementary	plante moran
Project: 2025 Cabling	



SECOND FLOOR POWER NEW WORK PLAN - AREA 'D'

SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
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3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
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7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
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1. PROVIDE NEW 100KW NATURAL GAS GENERATOR, PAD/GROUNDING AND GENERATOR ANNUNCIATOR. CONNECT GENERATOR TO EXISTING STANDBY FEEDER AND PROVIDE NEW EMERGENCY FEEDER. PROVIDE NEW CONTROL WIRING AND GENERATOR ANNUNCIATOR WIRING. EXTEND CONDUIT AND WIRE FOR MAINTAINED BRANCH CIRCUITS TO BATTERY CHARGER AND JACKET HEATER.
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13. PROVIDE 20A/1P CIRCUIT BREAKER IN EXISTING PANEL 1A-5, CONNECT NEW MOTORIZED BACKBOARDS TO NEW BREAKER.
14. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
15. PROVIDE 30A-3P DISC. SWITCH AND CIRCUIT TO NEW MOTORIZED BLEACHERS. COORDINATE REQUIREMENTS WITH BLEACHER MANUFACTURER. CIRCUIT TO EXISTING BLEACHER BRANCH CIRCUITING, EXTEND CIRCUITING AS REQUIRED.
16. DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BAST ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
17. ELECTRICAL CONTRACTOR SHALL PROVIDE A BUSSMAN PLUG FUSE HOLDER (120 VOLT, IN A 2.25X2.25X4" HANDY BOX, WITH A 15 AMP SCREW-IN EDISON FUSE). MOUNT WITHIN THE UNIT VENT ENCLOSURE AND TIE INTO EXISTING CIRCUITING AHEAD OF UNIT VENT. COORDINATE WITH MECHANICAL CONTRACTOR.
18. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANEL 1A-5, CONNECT NEW UNIT VENTILATOR TO NEW BREAKER.
19. PROVIDE 15A/1P CIRCUIT BREAKER IN EXISTING PANEL 1B-2, CONNECT NEW UNIT VENTILATOR TO NEW BREAKER

WA

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PBA Project No.: 2020-0275

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 4 - 2021 PROJECTS

SECOND FLOOR POWER
NEW WORK PLAN - AREA 'D'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: STP

REVISIONS:

BULLETIN No 03	05-24-22
CONSTRUCTION	11-19-21

DATE: NOVEMBER 18, 2021

SHEET NO.:
E3.2DHS

JOB NO. 201879

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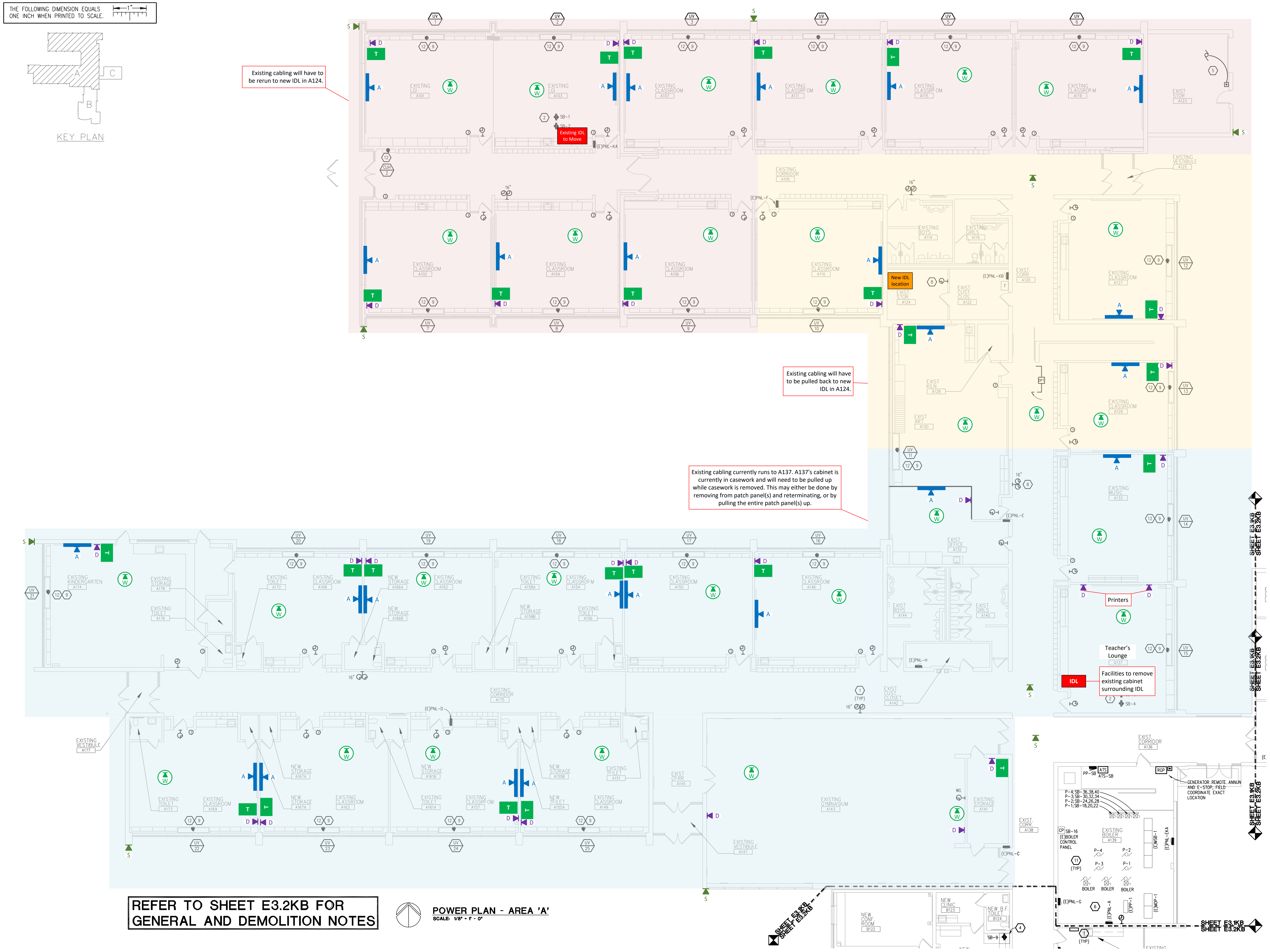
Client: Farmington Public Schools – Kenbrook Elementary	plante moran
Project: 2025 Cabling	

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

KEY PLAN



Existing cabling will have to be rerun to new IDL in A124.

Existing IDL to Move

New IDL location

Existing cabling will have to be pulled back to new IDL in A124.

Existing cabling currently runs to A137. A137's cabinet is currently in casework and will need to be pulled up while casework is removed. This may either be done by removing from patch panel(s) and reterminating, or by pulling the entire patch panel(s) up.

Printers

Teacher's Lounge

IDL

Facilities to remove existing cabinet surrounding IDL

REFER TO SHEET E3.2KB FOR GENERAL AND DEMOLITION NOTES

POWER PLAN - AREA 'A'
SCALE: 1/8" - 1' - 0"

g:\2020\2020-0276-00\CAD\2020-0276-E3-PP1.dwg, E3.1KB, 9/26/2022 11:27:48 AM, Devin J. Senechal, _Default.pc3 ,0.13342, Peter Basso Associates Inc.

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PBA Project No.: 2020.0272

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 9 - 2023 PROJECTS

POWER PLAN - AREA 'A'

KENBROOK ELEMENTARY SCHOOL

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

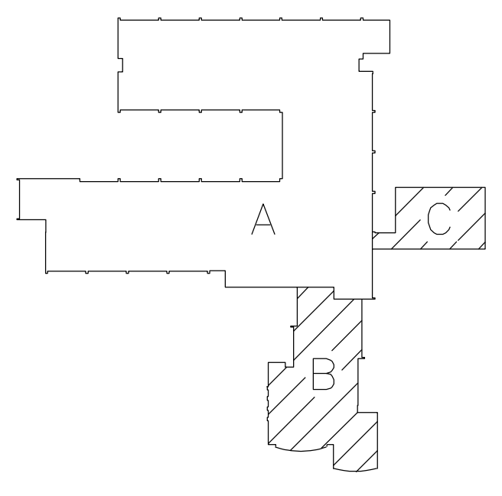
REVISIONS:

CONSTRUCTION DOCUMENTS SEPTEMBER 26, 2022
DATE: SEPTEMBER 26, 2022
SHEET NO.:
E3.1KB

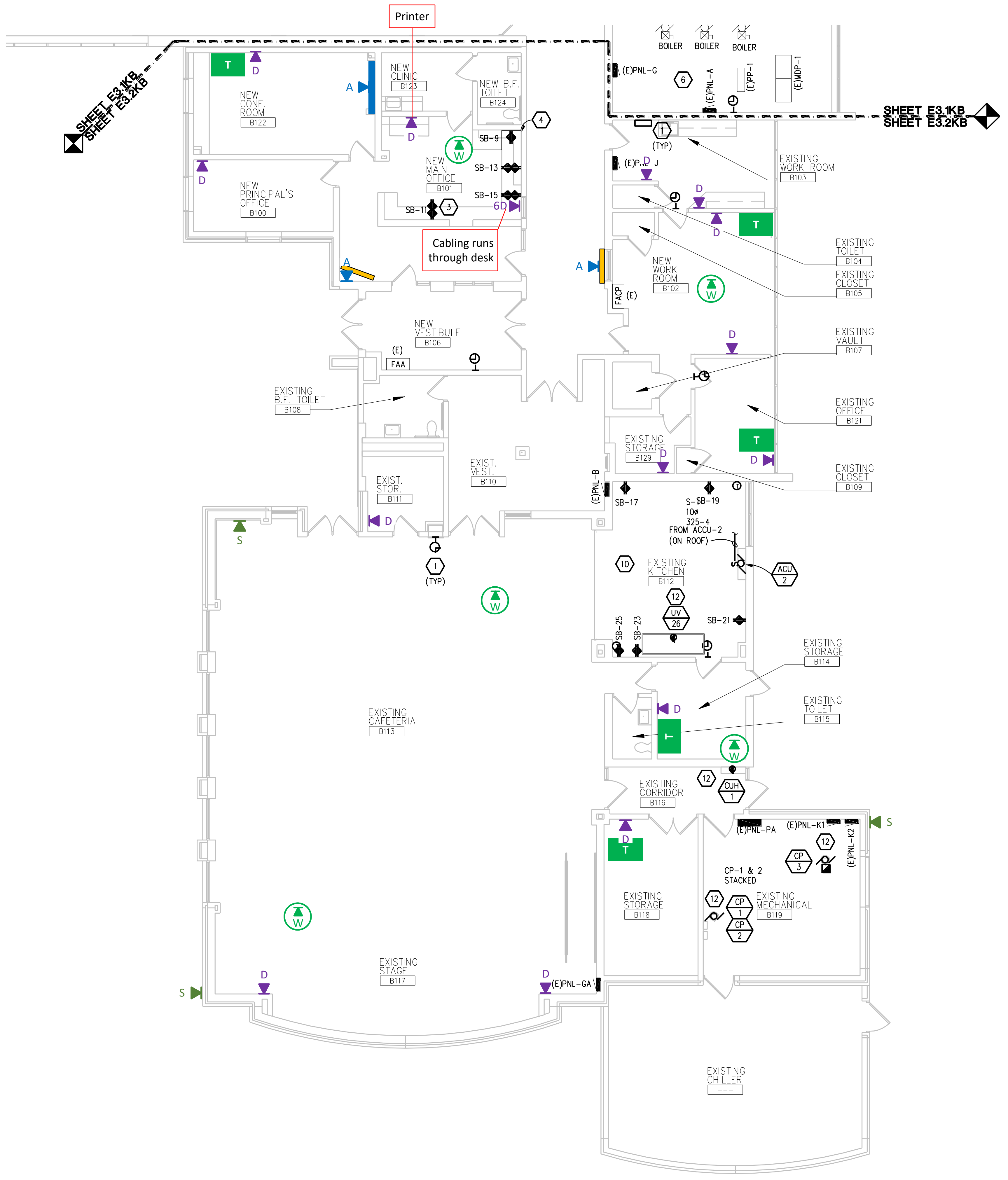
JOB NO.: 201879

Client: Farmington Public Schools – Kenbrook Elementary	plante moran
Project: 2025 Cabling	

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

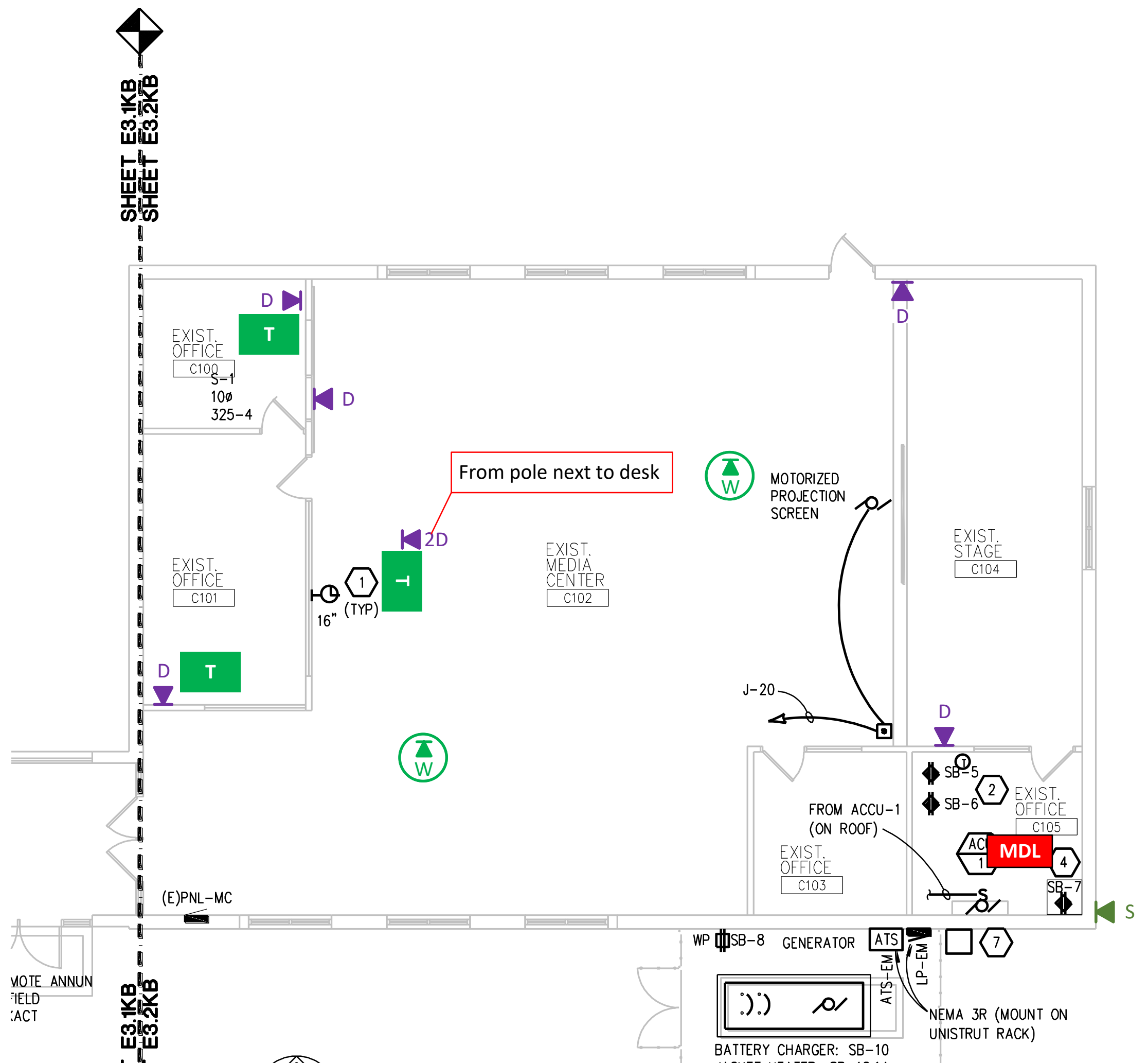


KEY PLAN



POWER PLAN - AREA 'B'

SCALE: 1/8" = 1'-0"



POWER PLAN - AREA 'C'

SCALE: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
12. PROVIDE TAMPER-RESISTANT TYPE RECEPTACLES FOR ALL NEW RECEPTACLES UNLESS OTHERWISE NOTED.

CONSTRUCTION KEY NOTES:

1. PROVIDE NEW NATIONAL TIME AND SIGNAL ANALOG SYNCHRONUS CLOCK SYSTEM. 12" DIAMETER ROUND CLOCKS SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. 16" DIAMETER ROUND CLOCKS SHALL BE USED WHERE INDICATED. EXISTING CLOCK SYSTEM WIRING TO BE REUSED AND EXTENDED TO NEW CLOCK LOCATIONS.
2. RECEPTACLES FOR IDF/MDF RACK. COORDINATE EXACT LOCATION WITH OWNER/PMC.
3. INTERCEPT EXISTING 120V CIRCUITS TO EXISTING FRONT OFFICE ELECTRIC FURNITURE PARTITION AND REPLACE WITH STAND-BY GENERATOR CIRCUITS FOR OFFICE POWER OUTAGE.
4. RECEPTACLES FOR PA SYSTEM. COORDINATE EXACT LOCATION WITH OWNER. ROUTE CIRCUITING IN IVORY WIREMOLD IN FINISHED AREAS.
5. CIRCUIT TO NEW 20A-1P CIRCUIT BREAKER IN EXISTING PANEL KB FOR OUTDOOR ROLL-UP DOOR. COORDINATE ALL REQUIREMENTS WITH DOOR CONTRACTOR.
6. INTERCEPT ELECTRICAL FEEDS FOR CP-1, CP-2, CP-3 AND ASSOCIATED BOILERS. TRANSFER EXISTING CIRCUITING OVER TO PP-SB.
7. GENERATOR DOCKING STATION.
8. NEW CLOCK LOCATION, EXTEND EXISTING CLOCK CIRCUITING IN AREA AS REQUIRED.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE A BUSSMAN PLUG FUSE HOLDER (120 VOLT, IN A 2.25X2.25X4" HANDY BOX, WITH A 15 AMP SCREW-IN EDISON FUSE). MOUNT WITHIN THE UNIT VENT ENCLOSURE AND TIE INTO EXISTING CIRCUITING AHEAD OF UNIT VENT. COORDINATE WITH MECHANICAL CONTRACTOR.
10. RECEPTACLES FOR KITCHEN FREEZERS AND REFRIGERATORS. COORDINATE EXACT LOCATION WITH OWNER. ROUTE CIRCUITING IN IVORY WIREMOLD IN FINISHED AREAS.
11. RE-CIRCUIT EXISTING MECHANICAL EQUIPMENT INDICATED. FIELD COORDINATE EXACT EQUIPMENT LOCATIONS.
12. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRING AS REQUIRED.

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PBA Project No.: 2020.0272

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 9 - 2023 PROJECTS

POWER PLAN - AREA 'B' AND 'C'

KENBROOK ELEMENTARY SCHOOL

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

CONSTRUCTION DOCUMENTS SEPTEMBER 26, 2022
DATE: SEPTEMBER 26, 2022

SHEET NO.: E3.2KB

JOB NO.: 201879

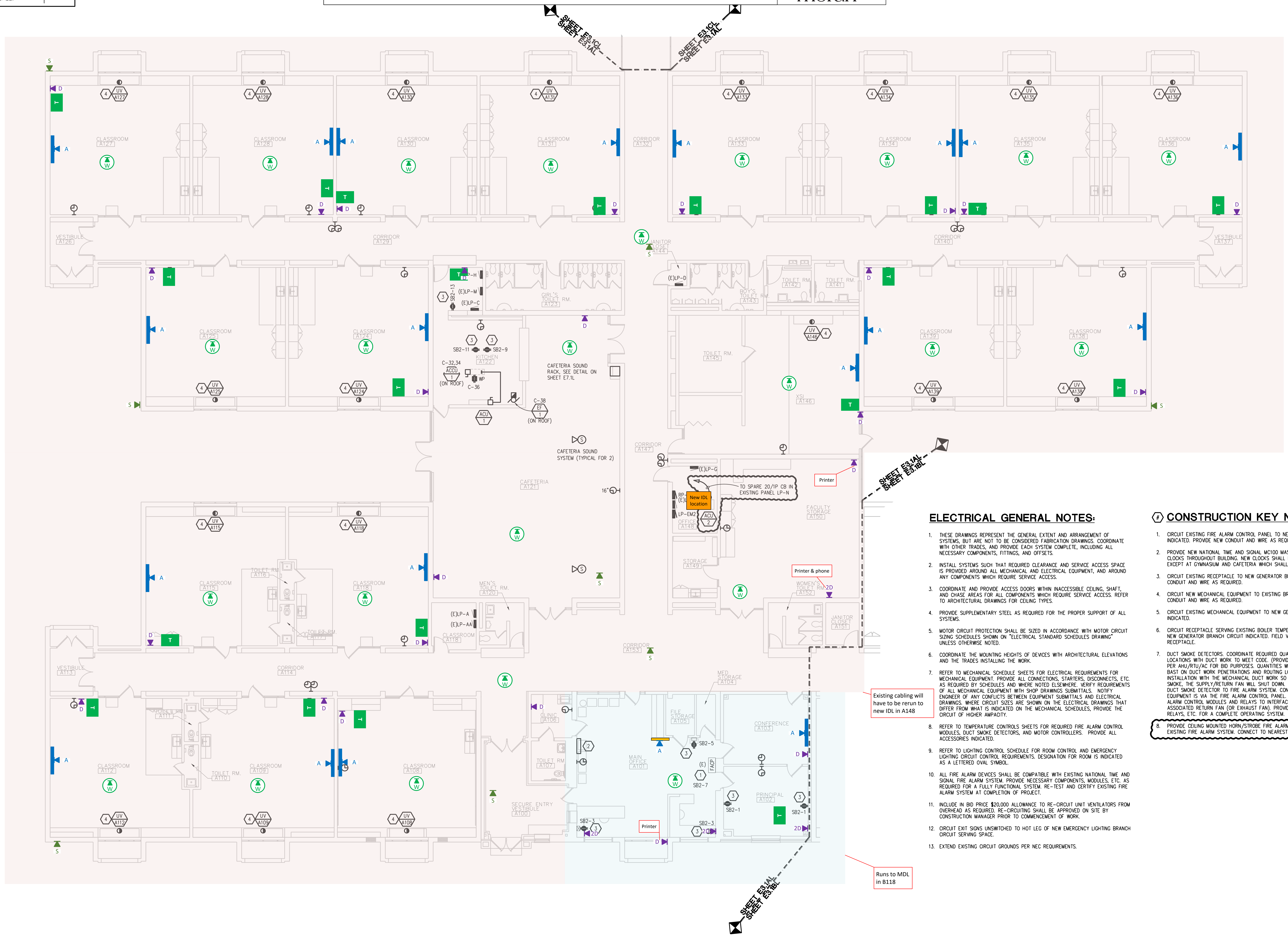
j:\2020\2020-0276-00\CAD\2020-0276-E3-PP1.dwg, E3.2KB, 9/26/2022 11:27:52 AM, Devin J. Senechal, _Default.pc3 ,0.13342, Peter Basso Associates Inc.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

Client: Farmington Public Schools – Lanigan Elementary

Project: 2025 Cabling

plante moran



FIRST FLOOR POWER AND AUXILIARY - AREA 'A'

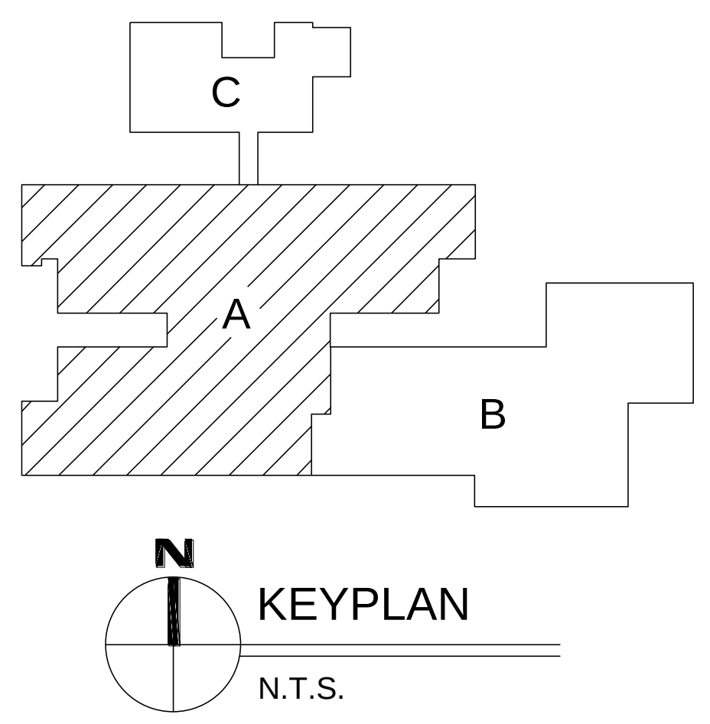
SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
8. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
9. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
10. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TIME AND SIGNAL FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
11. INCLUDE IN BID PRICE $20,000 ALLOWANCE TO RE-CIRCUIT UNIT VENTILATORS FROM OVERHEAD AS REQUIRED. RE-CIRCUITING SHALL BE APPROVED ON SITE BY CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF WORK.
12. CIRCUIT EXIT SIGNS UNSWITCHED TO HOT LEG OF NEW EMERGENCY LIGHTING BRANCH CIRCUIT SERVING SPACE.
13. EXTEND EXISTING CIRCUIT GROUNDS PER NEC REQUIREMENTS.

⟨#⟩ CONSTRUCTION KEY NOTES:

1. CIRCUIT EXISTING FIRE ALARM CONTROL PANEL TO NEW GENERATOR CIRCUIT INDICATED. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL MC100 MASTER CLOCK SYSTEM AND CLOCKS THROUGHOUT BUILDING. NEW CLOCKS SHALL BE 12" ROUND ANALOG EXCEPT AT GYMNASIUM AND CAFETERIA WHICH SHALL BE 16".
3. CIRCUIT EXISTING RECEPTACLE TO NEW GENERATOR BRANCH CIRCUIT. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED.
4. CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
5. CIRCUIT EXISTING MECHANICAL EQUIPMENT TO NEW GENERATOR BRANCH CIRCUIT INDICATED.
6. CIRCUIT RECEPTACLE SERVING EXISTING BOILER TEMPERATURE CONTROL PANEL TO NEW GENERATOR BRANCH CIRCUIT INDICATED. FIELD VERIFY EXACT LOCATION OF RECEPTACLE.
7. DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BAST ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
8. PROVIDE CEILING MOUNTED HORN/STROBE FIRE ALARM DEVICE COMPATABLE WITH EXISTING FIRE ALARM SYSTEM. CONNECT TO NEAREST EXISTING FIRE ALARM WIRING.



KEYPLAN
N.T.S.

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FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 2 - 2021 PROJECTS

LANIGAN ELEMENTARY

FIRST FLOOR POWER AND
AUXILIARY - AREA 'A'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: JRD
CHECKED BY: STP

REVISIONS:
CONSTRUCTION 03-01-2021
ADDENDUM #1 FEB 16, 2021

DATE: JANUARY 28, 2021

SHEET NO.:
E3.1AL

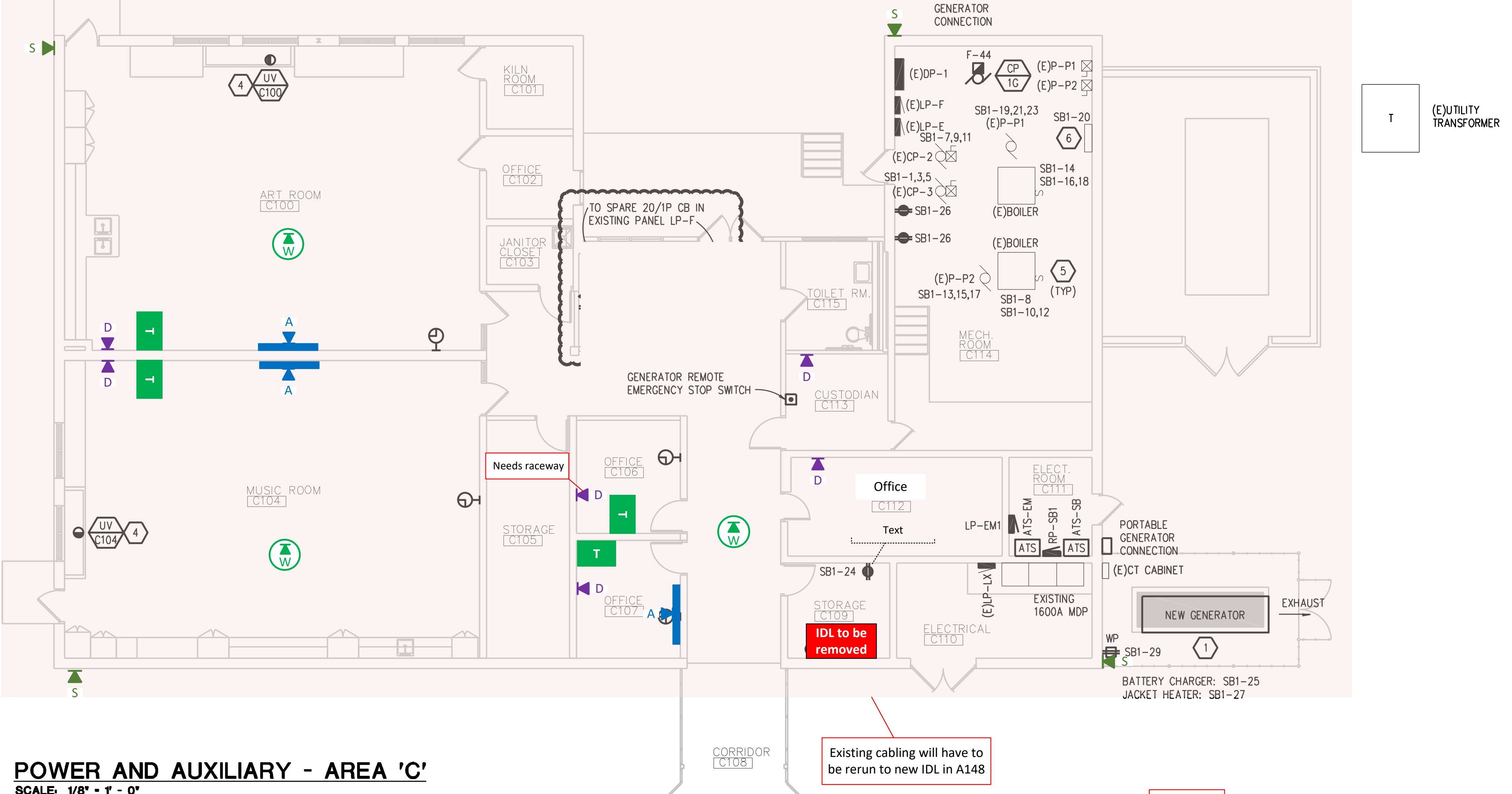
JOB NO.: 201879

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE. 1"

Client: Farmington Public Schools – Lanigan Elementary

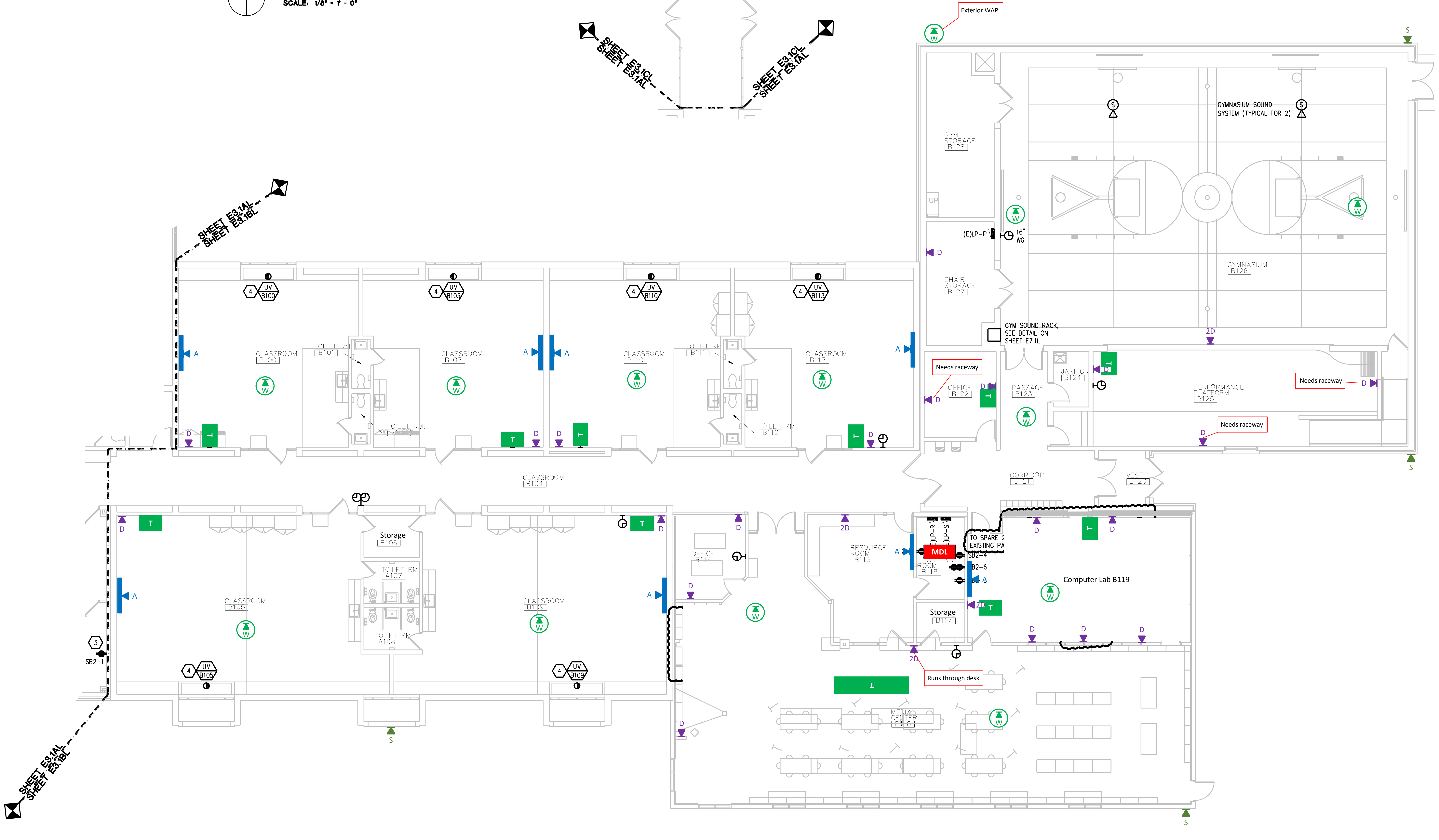
Project: 2025 Cabling

plante moran



POWER AND AUXILIARY - AREA 'C'

SCALE: 1/8" = 1'-0"



POWER AND AUXILIARY - AREA 'B'

SCALE: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
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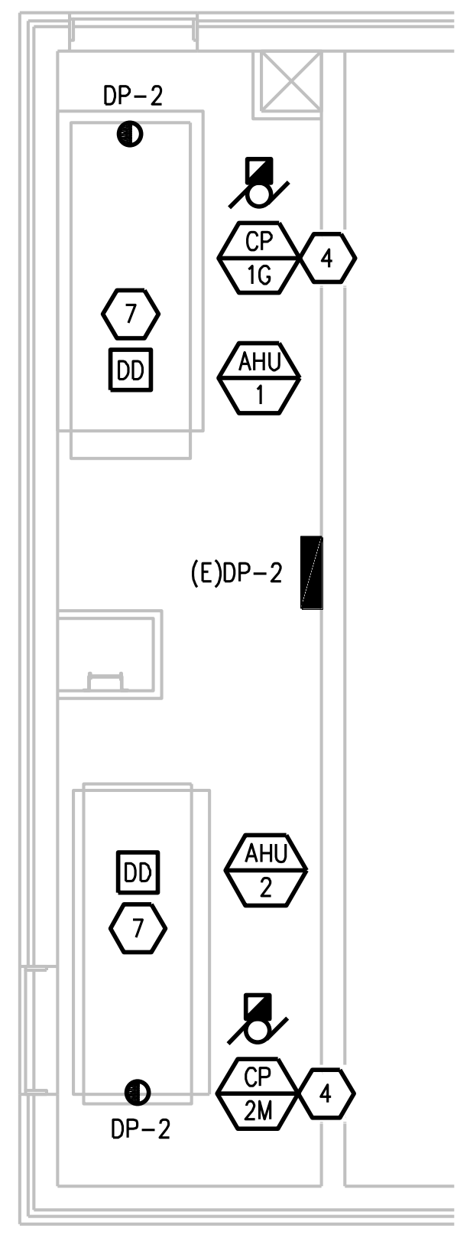
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
8. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
9. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
10. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TIME AND SIGNAL FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
11. INCLUDE IN BID PRICE $20,000 ALLOWANCE TO RE-CIRCUIT UNIT VENTILATORS FROM OVERHEAD AS REQUIRED. RE-CIRCUITING SHALL BE APPROVED ON SITE BY CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF WORK.
12. CIRCUIT EXIT SIGNS UNSWITCHED TO HOT LEG OF NEW EMERGENCY LIGHTING BRANCH CIRCUIT SERVING SPACE.
13. EXTEND EXISTING CIRCUIT GROUNDS PER NEC REQUIREMENTS.

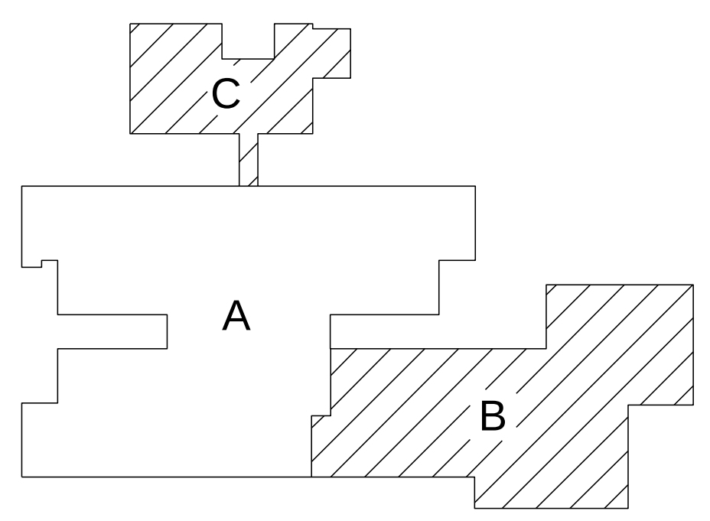
⟨#⟩ CONSTRUCTION KEY NOTES:

1. CIRCUIT EXISTING FIRE ALARM CONTROL PANEL TO NEW GENERATOR CIRCUIT INDICATED. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED.
2. PROVIDE NEW NATIONAL TIME AND SIGNAL MC100 MASTER CLOCK SYSTEM AND CLOCKS THROUGHOUT BUILDING. NEW CLOCKS SHALL BE 12" ROUND ANALOG EXCEPT AT GYMNASIUM AND CAFETERIA WHICH SHALL BE 16".
3. CIRCUIT EXISTING RECEPTACLE TO NEW GENERATOR BRANCH CIRCUIT. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED.
4. CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
5. CIRCUIT EXISTING MECHANICAL EQUIPMENT TO NEW GENERATOR BRANCH CIRCUIT INDICATED.
6. CIRCUIT RECEPTACLE SERVING EXISTING BOILER TEMPERATURE CONTROL PANEL TO NEW GENERATOR BRANCH CIRCUIT INDICATED. FIELD VERIFY EXACT LOCATION OF RECEPTACLE.
7. DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BAST ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
8. PROVIDE CEILING MOUNTED HORN/STROBE FIRE ALARM DEVICE COMPATABLE WITH EXISTING FIRE ALARM SYSTEM. CONNECT TO NEAREST EXISTING FIRE ALARM WIRING.



POWER AND AUXILIARY MEZZANINE PLAN

SCALE: 1/8" = 1'-0"



KEYPLAN

N.T.S.

WAKELY ASSOCIATES, INC.
ARCHITECTS

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PBA Project No.: 2020.0277

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 2 - 2021 PROJECTS

LANIGAN ELEMENTARY

FIRST FLOOR POWER AND AUXILIARY - AREA 'B' AND 'C'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: JRD
CHECKED BY: STP

REVISIONS:

BULLETIN No. 6	AUG 02, 2021
CONSTRUCTION	03-01-2021

DATE: JANUARY 28, 2021

SHEET NO.:

E3.1BL

JOB NO.: 201879

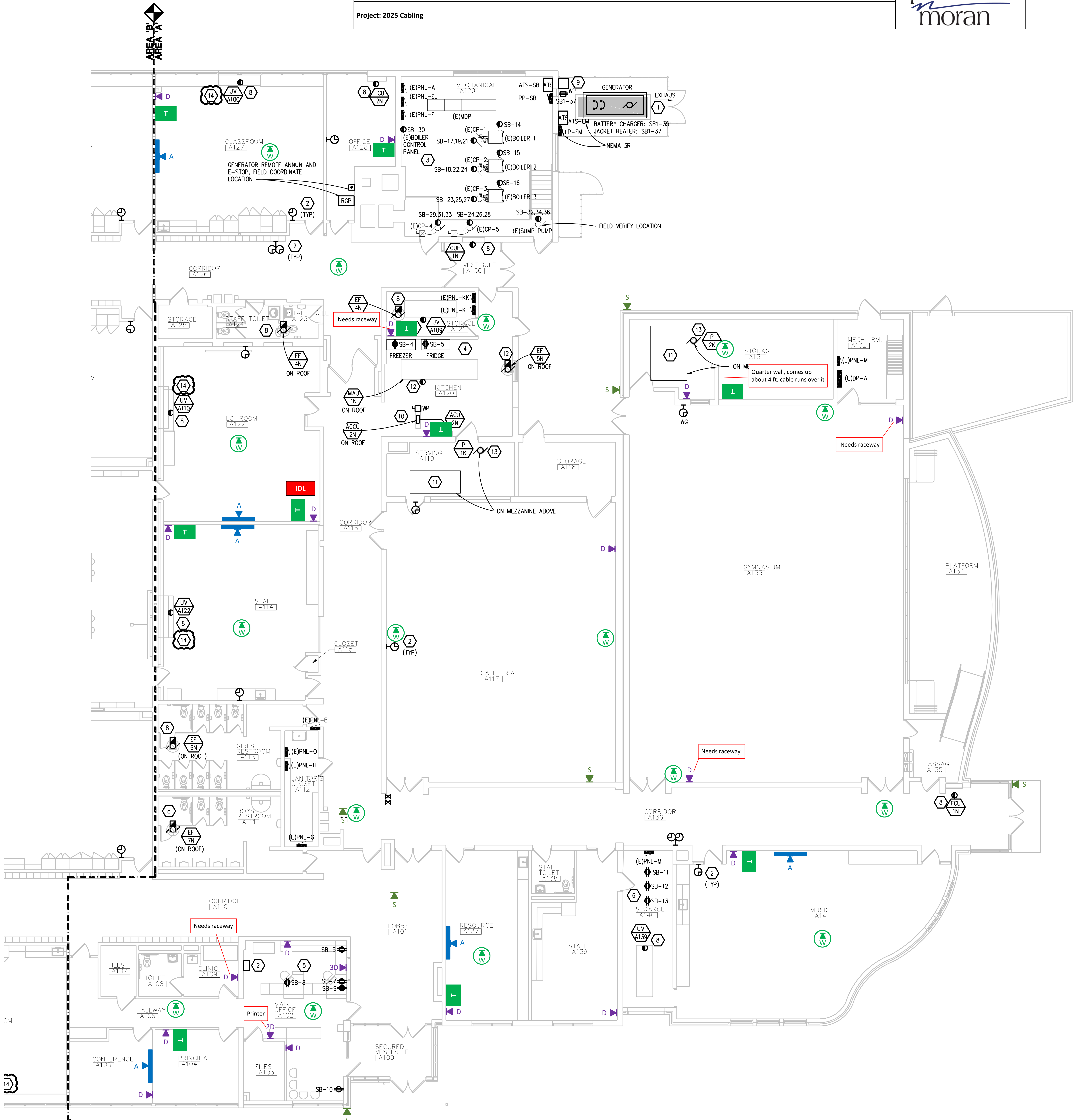
g:\2020\2020-0277-00\CAD\2020-0277-E3-PP1.dwg, E3.1BL, 7/30/2021 11:57:00 AM, Gene B. Sperry, _Default.pc3 ,0.40211, Peter Basso Associates Inc.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

Client: Farmington Public Schools – Longacre Elementary

Project: 2025 Cabling

plante moran



POWER NEW WORK PLAN - AREA 'A'

SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

⟨#⟩ CONSTRUCTION KEY NOTES:

1. PROVIDE NEW 80KW NATURAL GAS GENERATOR AND GENERATOR ANNUNCIATOR. PROVIDE NEW FEEDERS AND BRANCH CIRCUITS AS REQUIRED.
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3. CIRCUIT EXISTING SUMP PUMP, EXISTING BOILER CONTROL PANEL, EXISTING BOILERS AND ASSOCIATED PUMPS TO NEW GENERATOR STANDBY PANELBOARD. FIELD COORDINATE EQUIPMENT LOCATIONS. MATCH NEW BREAKERS TO EXISTING.
4. STAND-BY GENERATOR RECEPTACLES FOR FREEZER AND REFRIGERATOR. COORDINATE EXACT LOCATION WITH OWNER. RECEPTACLE COLOR SHALL BE RED.
5. STAND-BY GENERATOR RECEPTACLES FOR OFFICE POWER OUTAGE, PA SYSTEM AND SECURITY EQUIPMENT. COORDINATE EXACT LOCATION WITH OWNER. ROUTE CIRCUITING IN IVORY WIREMOLD IN FINISHED AREAS. RECEPTACLE COLOR SHALL BE RED.
6. STAND-BY GENERATOR RECEPTACLES FOR IDF/MDF RACK. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
7. PROVIDE NEW 200A, 42 POLE, 208Y/120V 3PH, 4W PANELBOARD. RECONNECT EXISTING FEEDERS AND BRANCH CIRCUITS.
8. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
9. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM.
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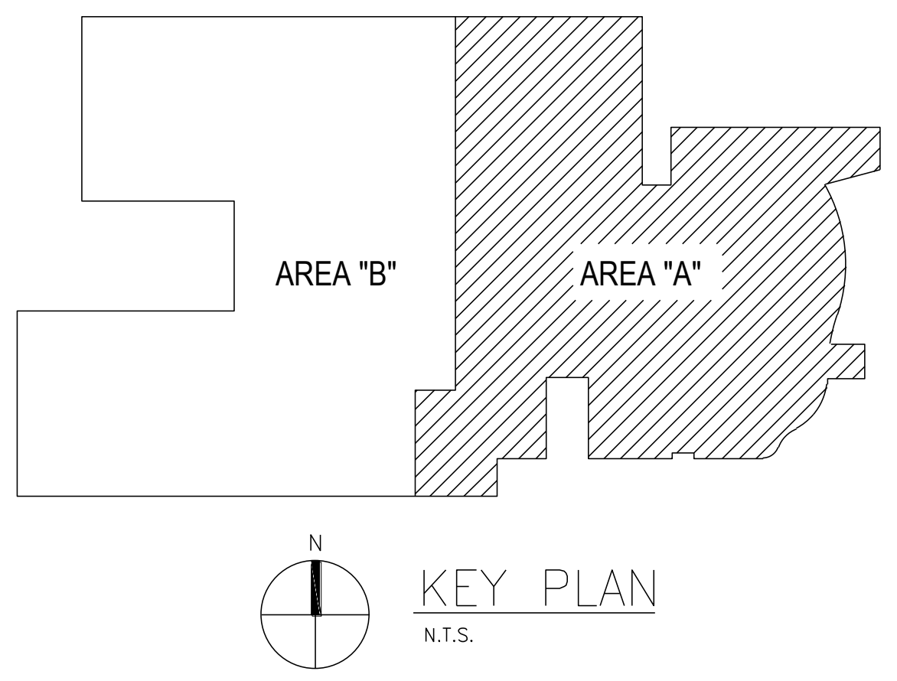

KEY PLAN
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PBA Project No.: 2020-0278

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 4 - 2021 PROJECTS

POWER NEW WORK PLAN - AREA 'A'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: STP

REVISIONS:

BULLETIN No 03	05-24-22
CONSTRUCTION	11-19-21

DATE: NOVEMBER 18, 2021

SHEET NO.:
E3.1ALA

JOB NO. 201879

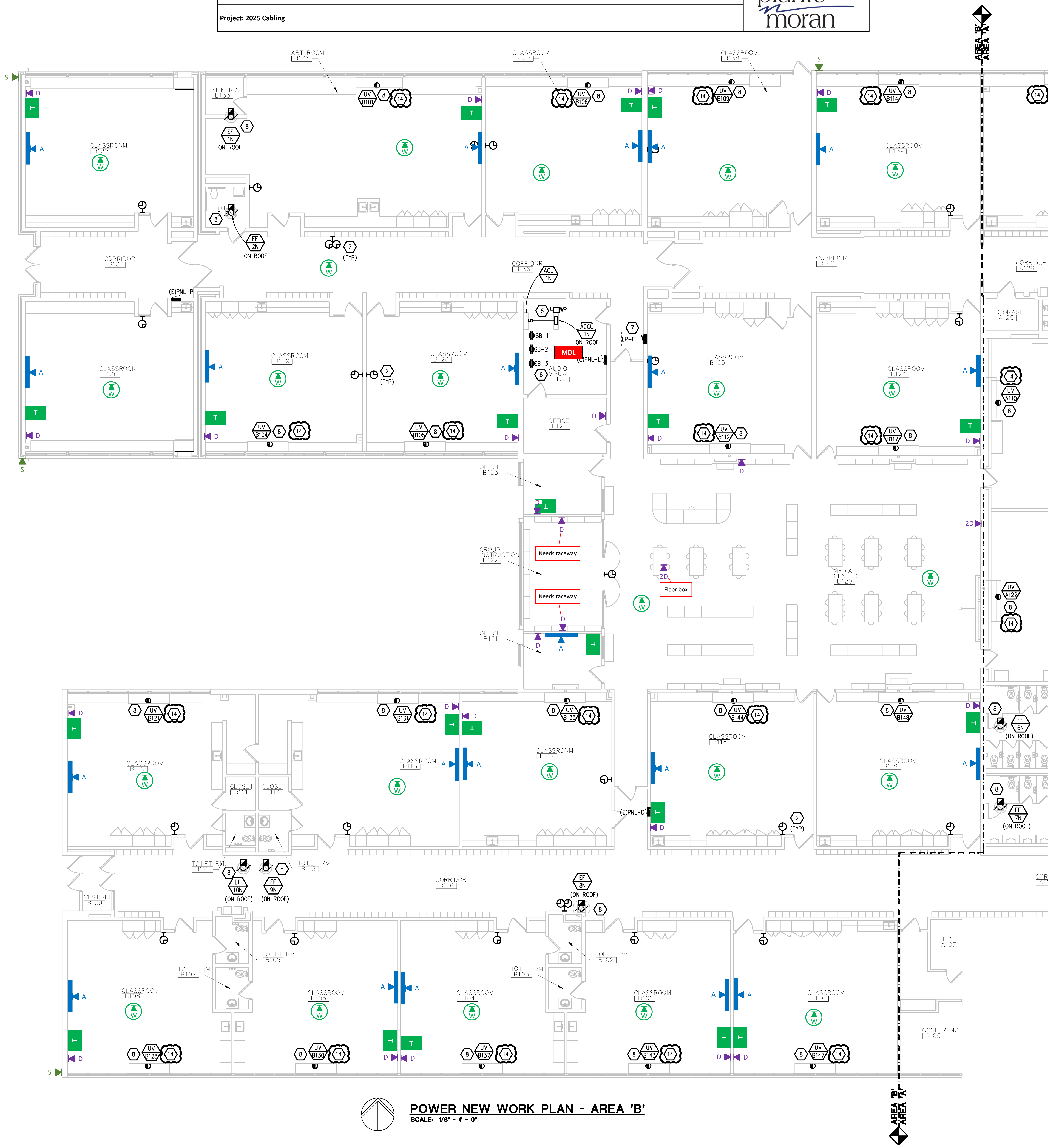
G:\2020\2020-0278-00\CAD\2020-0278-E3-PP1.dwg, E3.1ALA, 5/23/2022 3:13:17 PM, Gregory J. Ziegler, _Default.pc3 ,0.24304, Peter Basso Associates Inc.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

Client: Farmington Public Schools – Longacre Elementary

Project: 2025 Cabling

plante moran



POWER NEW WORK PLAN - AREA 'B'

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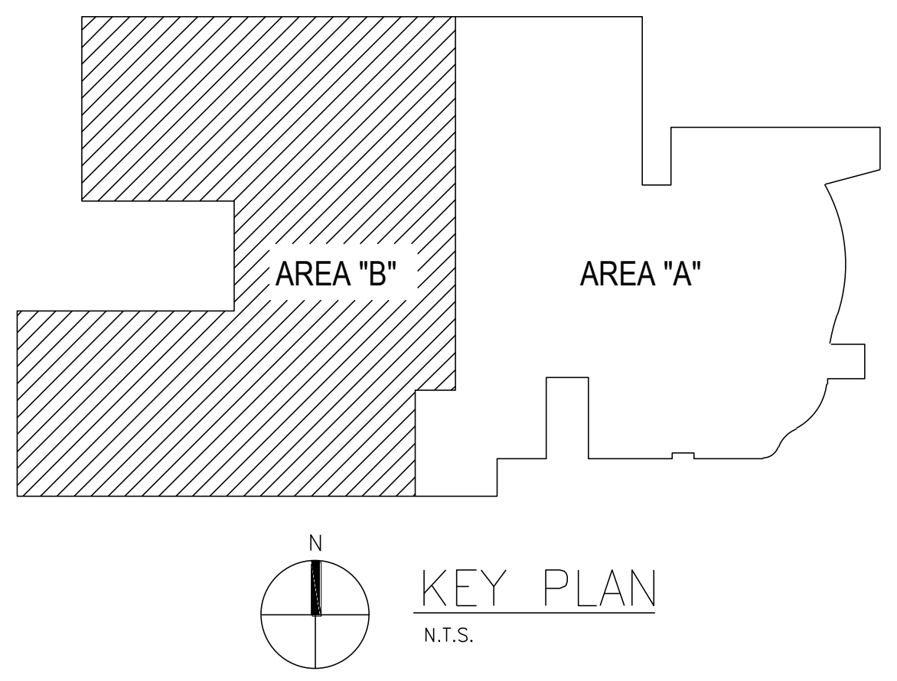

KEY PLAN

N.T.S.

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PBA Project No.: 2020-0278

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 4 - 2021 PROJECTS

POWER NEW WORK PLAN - AREA 'B'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: STP

REVISIONS:

BULLETIN No 03	05-24-22
CONSTRUCTION	11-19-21

DATE: NOVEMBER 18, 2021

SHEET NO.:
E3.1BLA

JOB NO. 201879

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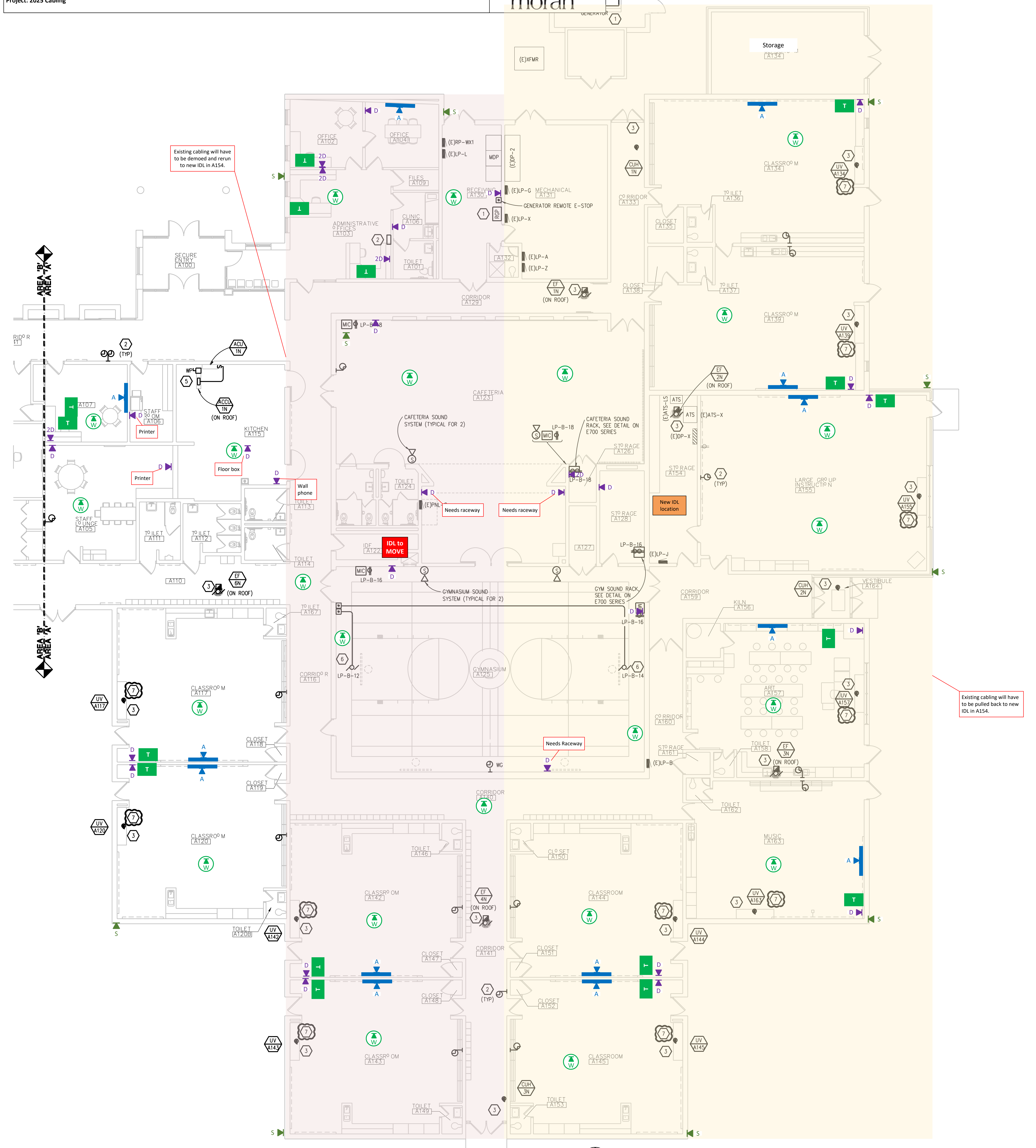
THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

Client: Farmington Public Schools – Wood Creek Elementary

Project: 2025 Cabling

plante moran



POWER NEW WORK PLAN - AREA 'A'

SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
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CONSTRUCTION KEY NOTES:

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2. PROVIDE NEW NATIONAL TIME AND SIGNAL ANALOG SYNCHRONUS CLOCK SYSTEM. 12" DIAMETER ROUND CLOCKS SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. 16" DIAMETER ROUND CLOCKS SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
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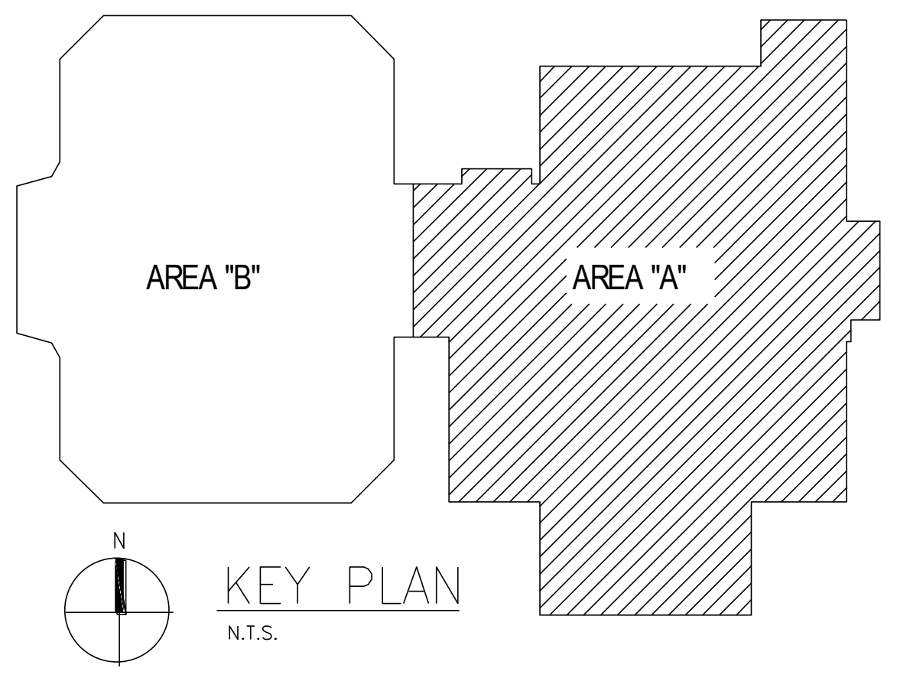
5. PROVIDE 20A/2P CIRCUIT BREAKER IN EXISTING PANEL LP-H, CONNECT NEW SPLIT SYSTEM TO NEW BREAKER.
6. CIRCUIT BACKBOARD WINCH MOTORS TO BRANCH CIRCUIT INDICATED. PROVIDE ADDITIONAL CONDUIT AND WIRE AS REQUIRED FOR WINCH MOTOR CONTROLLERS. COORDINATE EXACT REQUIREMENTS WITH BACKBOARD WINCH MOTOR MANUFACTURER.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE A BUSSMAN PLUG FUSE HOLDER (120 VOLT, IN A 2.25X2.25X4" HANDY BOX, WITH A 15 AMP SCREW-IN EDISON FUSE). MOUNT WITHIN THE UNIT VENT ENCLOSURE AND TIE INTO EXISTING CIRCUITING AHEAD OF UNIT VENT. COORDINATE WITH MECHANICAL CONTRACTOR.



KEY PLAN

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PBA Project No.: 2020-0279

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 4 - 2021 PROJECTS

POWER NEW WORK PLAN - AREA 'A'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: STP

REVISIONS:

BULLETIN No 03	05-24-22
CONSTRUCTION	11-19-21

DATE: NOVEMBER 18, 2021

SHEET NO.: E3.1AWC

JOB NO. 201879

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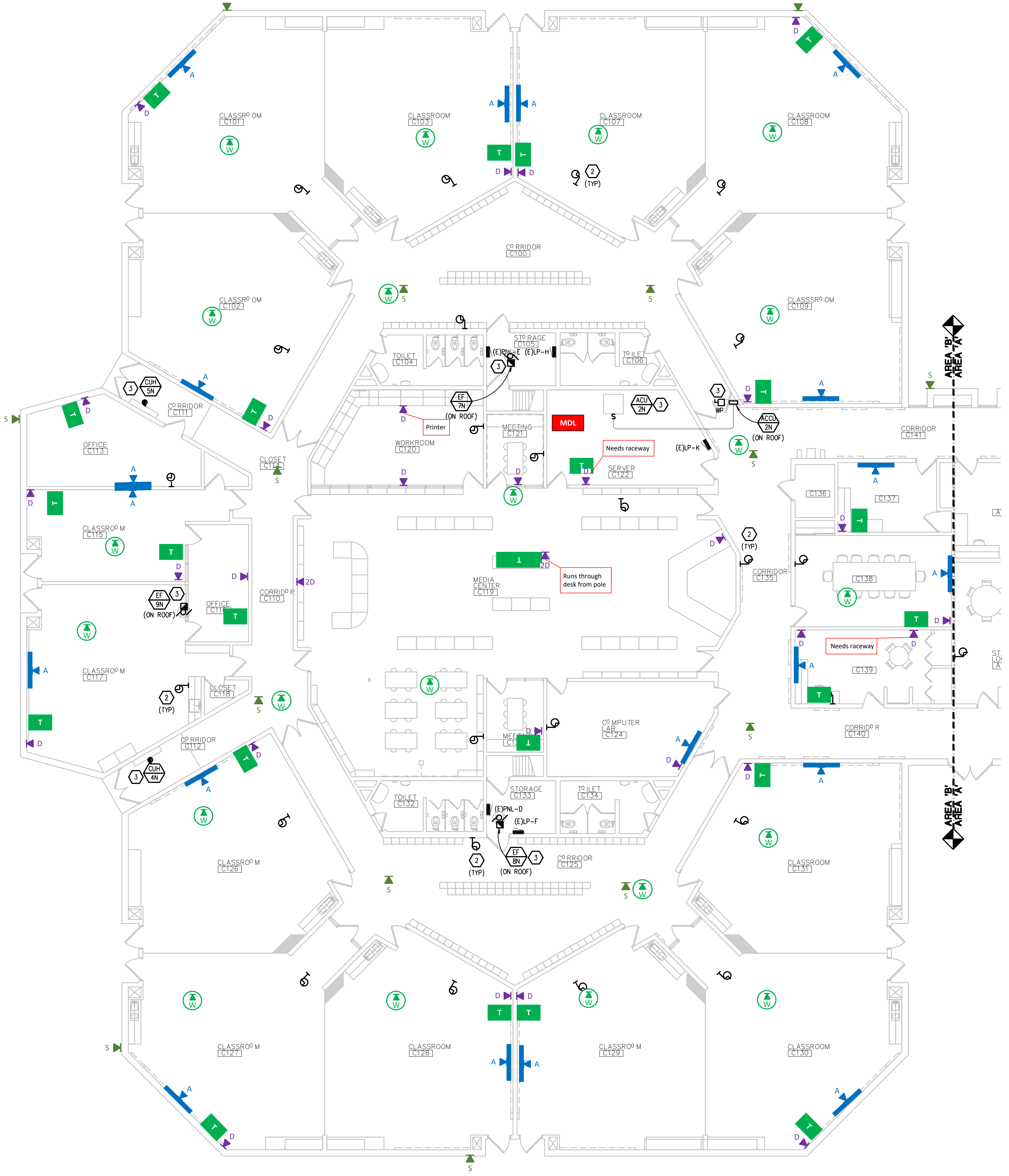
Client: Farmington Public Schools – Wood Creek Elementary

Project: 2025 Cabling

plante moran



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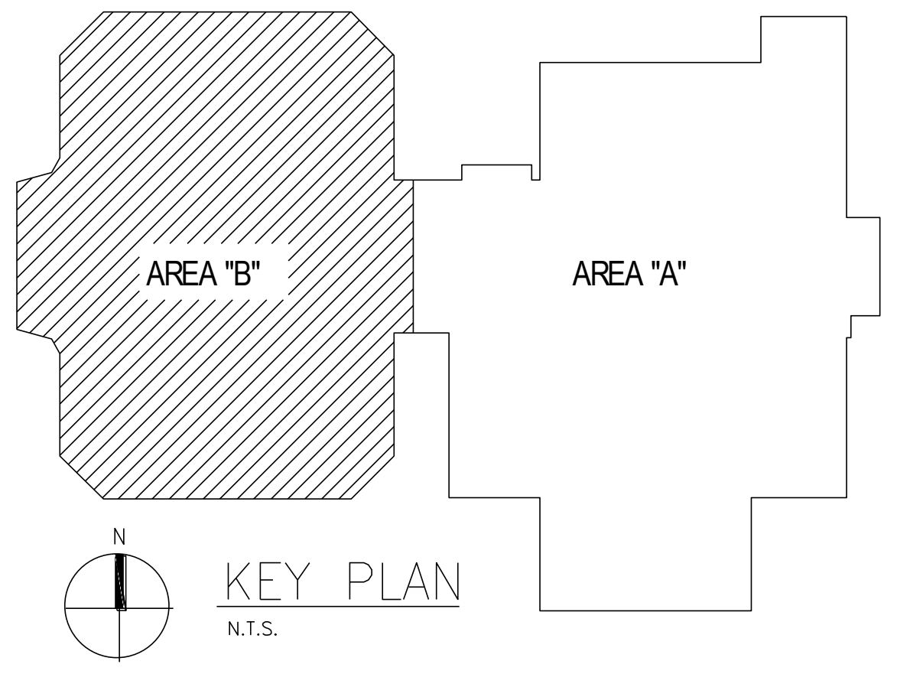
6. CIRCUIT BACKBOARD WINCH MOTORS TO BRANCH CIRCUIT INDICATED. PROVIDE ADDITIONAL CONDUIT AND WIRE AS REQUIRED FOR WINCH MOTOR CONTROLLERS. COORDINATE EXACT REQUIREMENTS WITH BACKBOARD WINCH MOTOR MANUFACTURER.



KEY PLAN
N.T.S.

WAKELY ASSOCIATES, INC.
ARCHITECTS

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PBA Project No.: 2020-0279

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 4 - 2021 PROJECTS

POWER NEW WORK PLAN - AREA 'B'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: STP

REVISIONS:
CONSTRUCTION 11-19-21

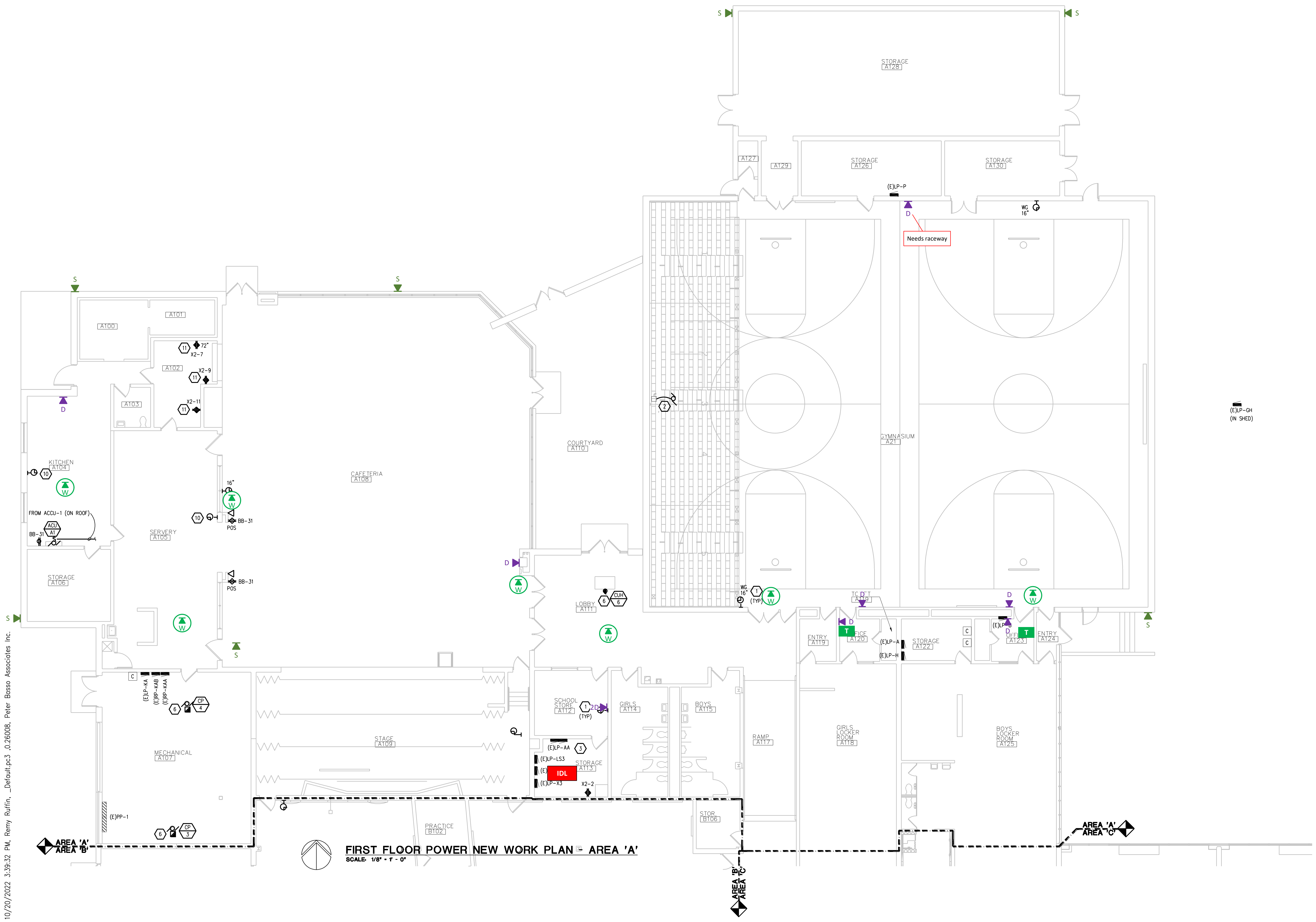
DATE: NOVEMBER 18, 2021

SHEET NO.:
E3.1BWC

JOB NO. 201879

g:\2020\2020-0279-00\CAD\2020-0279-E3-PP1.dwg, E3.1BWC, 11/18/2021 2:21:25 PM, Devin J. Senechal, _Default.pc3 ,1.65327, Peter Basso Associates Inc.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE. 1"



FIRST FLOOR POWER NEW WORK PLAN - AREA 'A'

SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

⟨#⟩ CONSTRUCTION KEY NOTES:

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3. STAND-BY GENERATOR RECEPTACLES FOR IDF/MDF RACK. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
4. INTERCEPT EXISTING 120V CIRCUITS TO EXISTING FRONT OFFICE ELECTRIC FURNITURE PARTITION AND REPLACE WITH STAND-BY GENERATOR CIRCUITS FOR OFFICE POWER OUTAGE. RECEPTACLE COLOR SHALL BE RED. CIRCUIT AS INDICATED ON PLAN.
5. STAND-BY GENERATOR RECEPTACLES FOR PA SYSTEM. COORDINATE EXACT LOCATION WITH OWNER. ROUTE CIRCUITING IN IVORY WIREMOLD IN FINISHED AREAS. RECEPTACLE COLOR SHALL BE RED.
6. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRING AS REQUIRED.
7. NEW 100KW/125KVA NATURAL GAS GENERATOR. REFER TO ONE LINE DIAGRAM.
8. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM. PROVIDE $2000 ALLOWANCE IN BID TO MODIFY FENCING IF REQUIRED.
9. DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BAST ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
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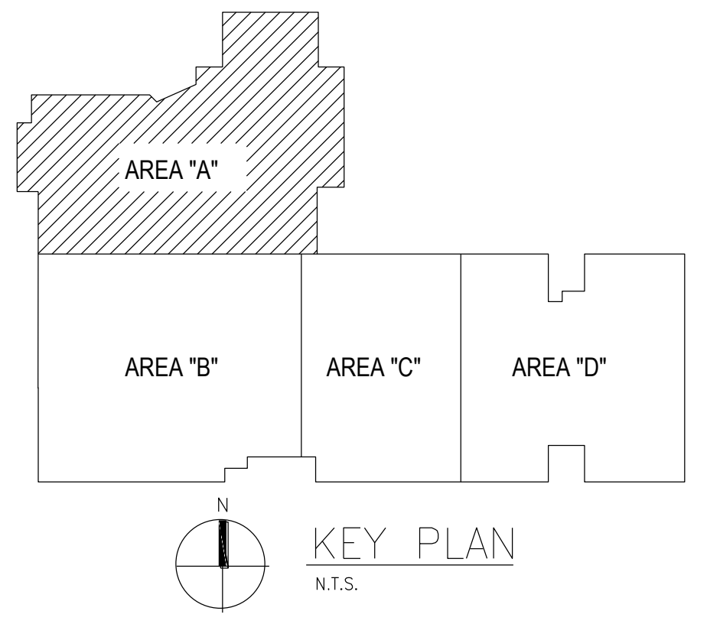

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PBA Project No.: 2020.0280

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS BUILDINGS
2020 BOND ISSUE - BID PACKAGE NO. 7 - 2023 PROJECTS

FIRST FLOOR POWER NEW WORK PLAN - AREA 'A'

PRELIMINARY	☐
DESIGN DEVELOPMENT	☐
CONSTRUCTION	■
FINAL RECORD	☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:
CONSTRUCTION OCTOBER 21, 2022

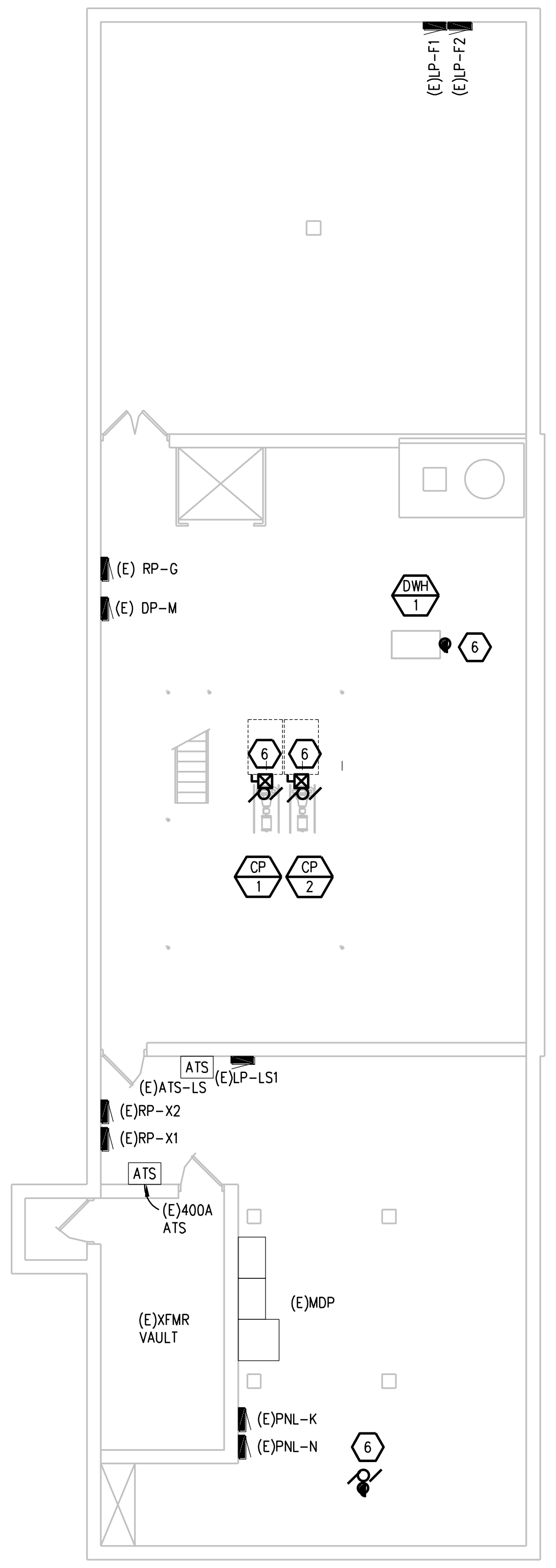
DATE: OCTOBER 21, 2022

SHEET NO.: E3.1AS

JOB NO.: 201879

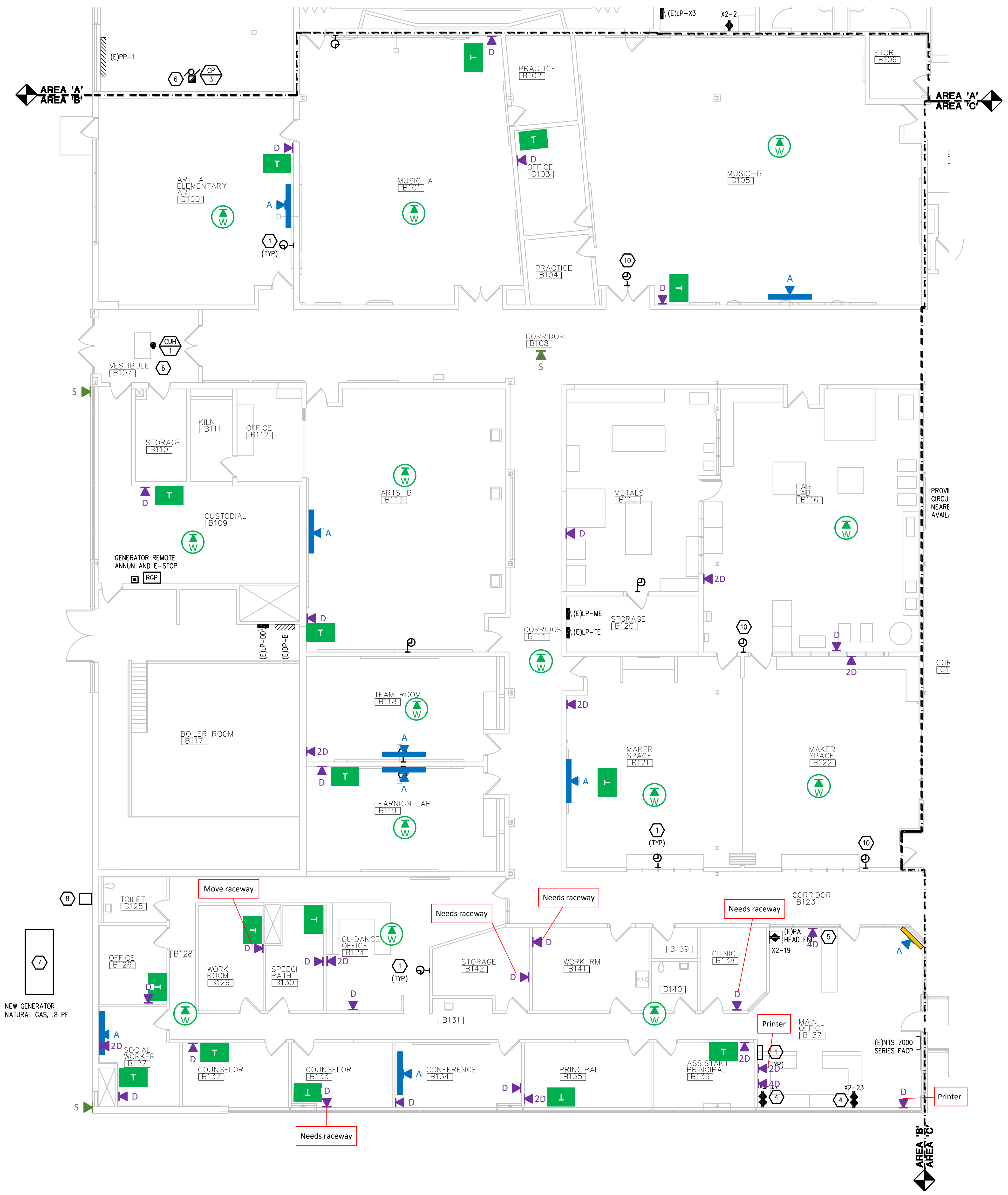
g:\2020\2020-0280-00\CAD\2020-0280-E3-PP1.dwg, E3.1AS, 10/20/2022 3:39:32 PM, Remy Ruffin, _Default.pc3 ,0.26008, Peter Basso Associates Inc.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



LOWER LEVEL POWER NEW WORK PLAN - AREA 'B'

SCALE: 1/8" = 1' - 0"



FIRST FLOOR POWER NEW WORK PLAN - AREA 'B'

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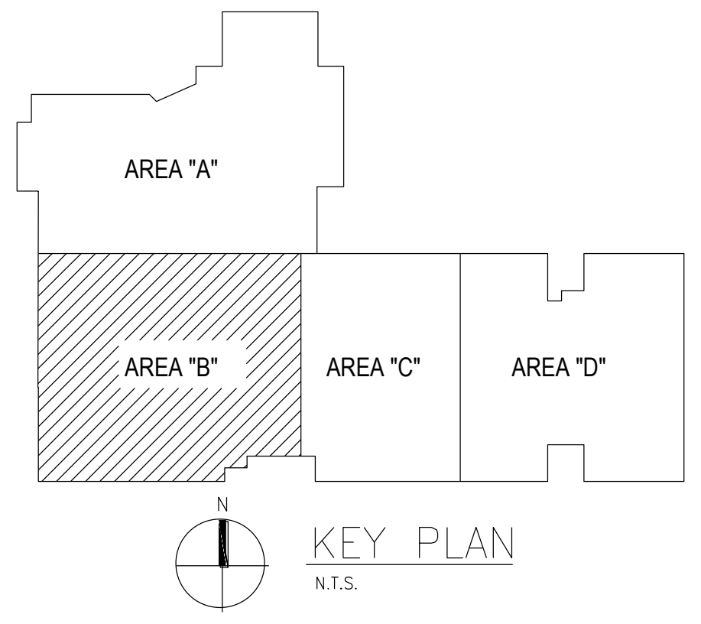

KEY PLAN
N.T.S.

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ARCHITECTS

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PBA Project No.: 2020.0280

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS BUILDINGS
2020 BOND ISSUE - BID PACKAGE NO. 7 - 2023 PROJECTS

LOWER AND FIRST FLOOR POWER NEW WORK PLAN - AREA 'B'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:
CONSTRUCTION OCTOBER 21, 2022

DATE: OCTOBER 21, 2022

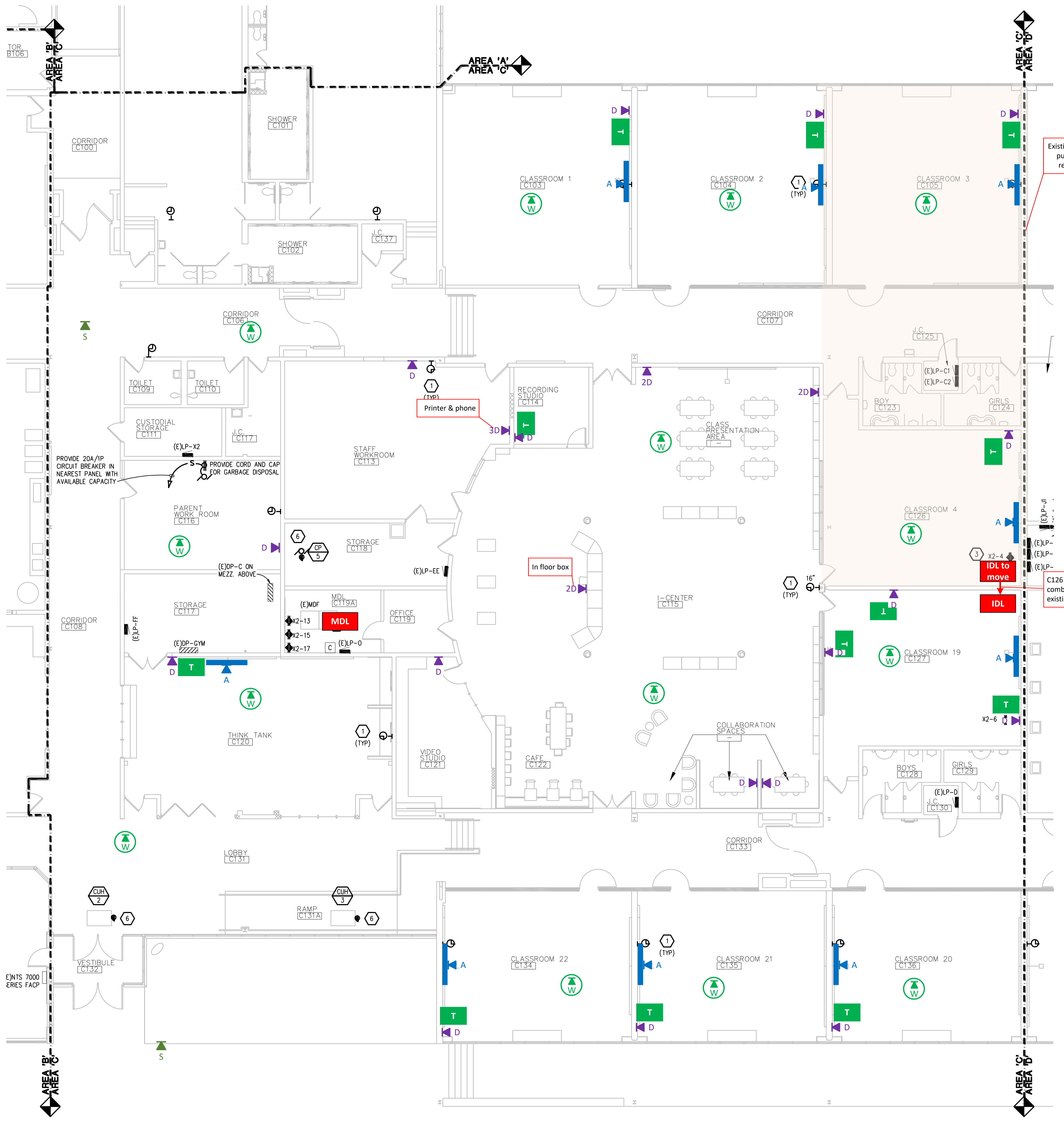
SHEET NO.: E3.1BS

JOB NO.: 201879

g:\2020\2020-0280-00\CAD\2020-0280-E3-PP1.dwg, E3.1BS, 10/20/2022 3:39:34 PM, Remy Ruffin, _Default.pc3 ,0.26008, Peter Basso Associates Inc.

Client: Farmington Public Schools – Farmington STEAM Academy	plante moran
Project: 2025 Cabling	

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE. 1"



FIRST FLOOR POWER NEW WORK PLAN - AREA 'C'

SCALE: 1/8" = 1' - 0"

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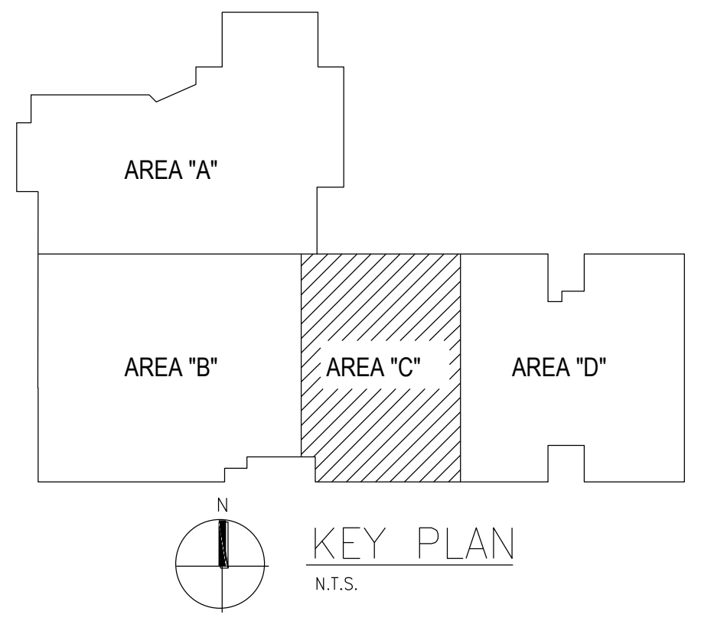

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PBA Project No.: 2020.0280

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS BUILDINGS
2020 BOND ISSUE - BID PACKAGE NO. 7 - 2023 PROJECTS

FIRST FLOOR POWER NEW WORK PLAN - AREA 'C'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:
CONSTRUCTION OCTOBER 21, 2022

DATE: OCTOBER 21, 2022

SHEET NO.: E3.1CS

JOB NO.: 201879

g:\2020\2020-0280-00\CAD\2020-0280-E3-PP1.dwg, E3.1CS, 10/20/2022 3:39:35 PM, Remy Ruffin, _Default.pc3 ,0.26008, Peter Basso Associates Inc.

Client: Farmington Public Schools – Farmington STEAM Academy	plante moran
Project: 2025 Cabling	

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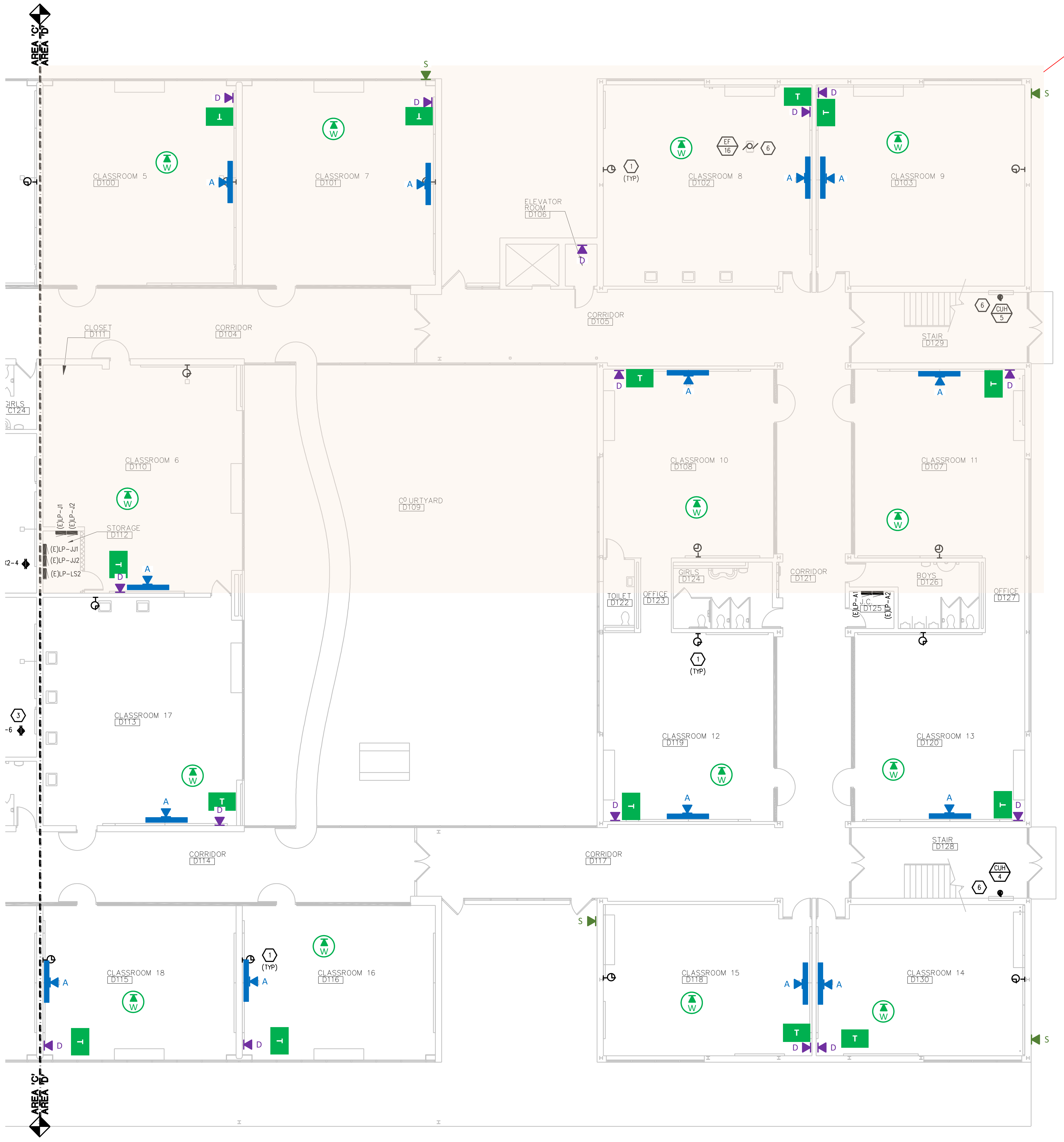

Existing cabling will need to be pulled from C126 IDL and reterminated into C127.

FIRST FLOOR POWER NEW WORK PLAN - AREA 'D'

SCALE: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

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6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
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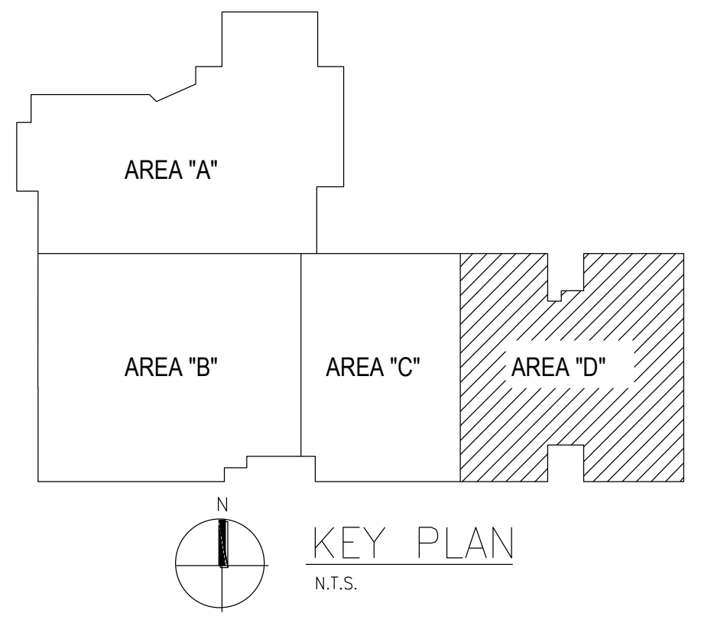
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

⟨#⟩ CONSTRUCTION KEY NOTES:

1. PROVIDE NEW NATIONAL TIME AND SIGNAL ANALOG SYNCHRONUS CLOCK SYSTEM. 12" DIAMETER ROUND CLOCKS SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. 16" DIAMETER ROUND CLOCKS SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
2. CIRCUIT NEW MOTORIZED BLEACHERS TO EXISTING DISCONNECT SWITCH THAT PREVIOUSLY SERVED MOTORIZED BLEACHERS. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH BLEACHER MANUFACTURER.
3. STAND-BY GENERATOR RECEPTACLES FOR IDF/MDF RACK. COORDINATE EXACT LOCATION WITH OWNER/PMC. RECEPTACLE COLOR SHALL BE RED.
4. INTERCEPT EXISTING 120V CIRCUITS TO EXISTING FRONT OFFICE ELECTRIC FURNITURE PARTITION AND REPLACE WITH STAND-BY GENERATOR CIRCUITS FOR OFFICE POWER OUTAGE. RECEPTACLE COLOR SHALL BE RED. CIRCUIT AS INDICATED ON PLAN.
5. STAND-BY GENERATOR RECEPTACLES FOR PA SYSTEM. COORDINATE EXACT LOCATION WITH OWNER. ROUTE CIRCUITING IN IVORY WIREMOLD IN FINISHED AREAS. RECEPTACLE COLOR SHALL BE RED.
6. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRING AS REQUIRED.
7. NEW 100KW/125KVA NATURAL GAS GENERATOR. REFER TO ONE LINE DIAGRAM.
8. PROVIDE NEW GENERATOR DOCKING STATION, REFER TO ONE LINE DIAGRAM. PROVIDE $2000 ALLOWANCE IN BID TO MODIFY FENCING IF REQUIRED.
9. DUCT SMOKE DETECTORS. COORDINATE REQUIRED QUANTITIES AND MOUNTING LOCATIONS WITH DUCT WORK TO MEET CODE. (PROVIDE 4 DUCT SMOKE DETECTORS PER AHU/RTU/AC FOR BID PURPOSES. QUANTITIES WILL BE ADJUSTED IN FIELD BAST ON DUCT WORK PENETRATIONS AND ROUTING LOCATIONS). COORDINATE INSTALLATION WITH THE MECHANICAL DUCT WORK SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM. CONTROL OF AIR HANDLING EQUIPMENT IS VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED FIRE ALARM CONTROL MODULES AND RELAYS TO INTERFACE WITH SUPPLY FAN AND ASSOCIATED RETURN FAN (OR EXHAUST FAN). PROVIDE ALL CONTROL MODULES, RELAYS, ETC. FOR A COMPLETE OPERATING SYSTEM.
10. NEW CLOCK LOCATION, CONNECT TO NEAREST CLOCK WIRING IN AREA.
11. STAND-BY GENERATOR RECEPTACLES FOR KITCHEN EQUIPMENT. COORDINATE EXACT LOCATION WITH OWNER. ROUTE CIRCUITING IN IVORY WIREMOLD IN FINISHED AREAS. RECEPTACLE COLOR SHALL BE RED.



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PBA Project No.: 2020.0280

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS BUILDINGS
2020 BOND ISSUE - BID PACKAGE NO. 7 - 2023 PROJECTS

FIRST FLOOR POWER NEW
WORK PLAN - AREA 'D'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

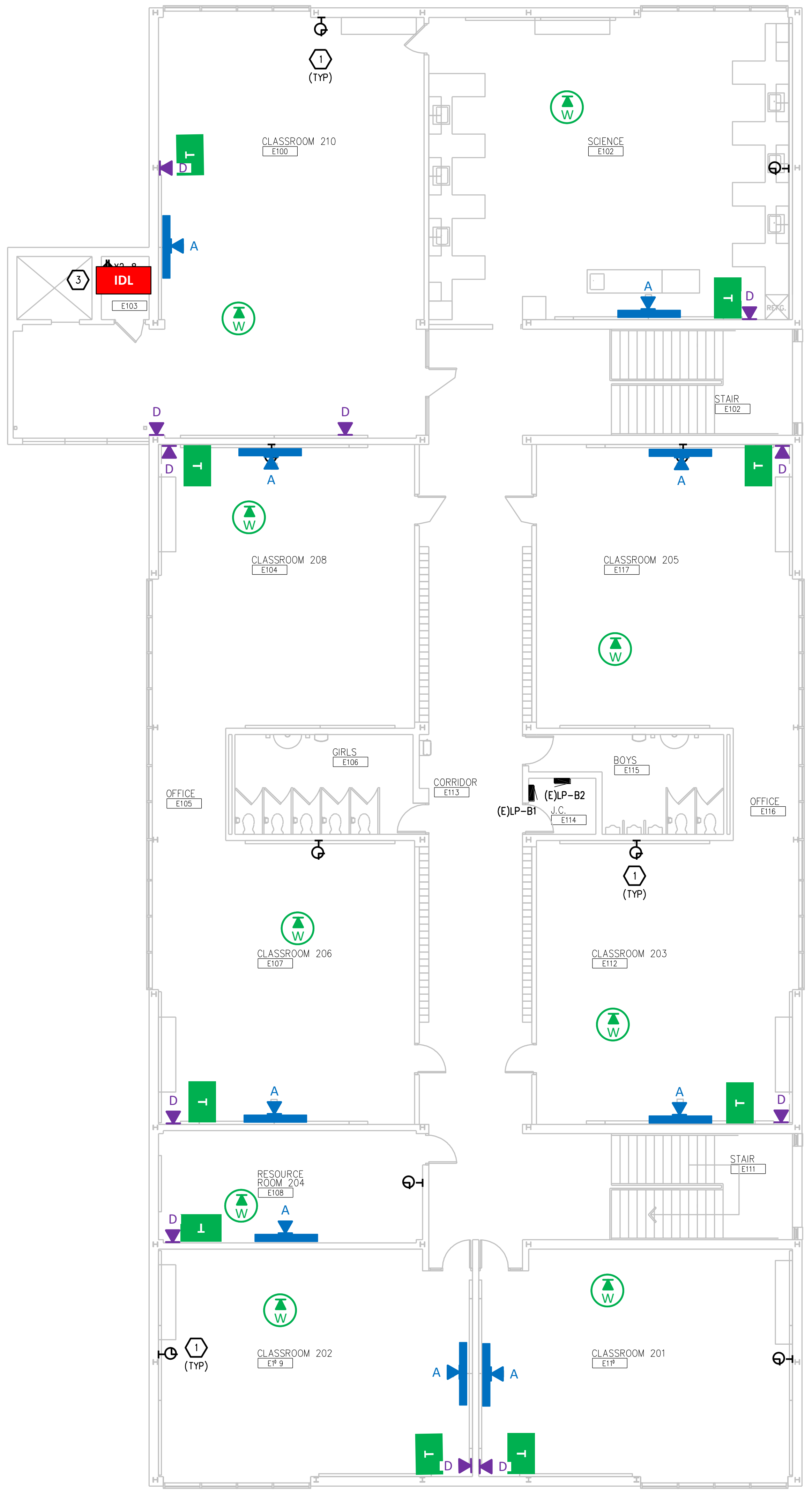
CONSTRUCTION	OCTOBER 21, 2022

DATE: OCTOBER 21, 2022

SHEET NO.:
E3.1DS

JOB NO.: 201879

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



SECOND FLOOR POWER NEW WORK PLAN - AREA 'D'

SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

CONSTRUCTION KEY NOTES:

1. PROVIDE NEW NATIONAL TIME AND SIGNAL ANALOG SYNCHRONUS CLOCK SYSTEM. 12" DIAMETER ROUND CLOCKS SHALL BE USED IN OFFICES, CLASSROOMS, AND OTHER SMALL SPACES. 16" DIAMETER ROUND CLOCKS SHALL BE USED IN CORRIDORS, GYMNASIUMS, AND OTHER LARGE SPACES. EXISTING CLOCK SYSTEM WIRING TO BE REUSED.
2. CIRCUIT NEW MOTORIZED BLEACHERS TO EXISTING DISCONNECT SWITCH THAT PREVIOUSLY SERVED MOTORIZED BLEACHERS. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH BLEACHER MANUFACTURER.
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4. INTERCEPT EXISTING 120V CIRCUITS TO EXISTING FRONT OFFICE ELECTRIC FURNITURE PARTITION AND REPLACE WITH STAND-BY GENERATOR CIRCUITS FOR OFFICE POWER OUTAGE. RECEPTACLE COLOR SHALL BE RED. CIRCUIT AS INDICATED ON PLAN.
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6. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRING AS REQUIRED.
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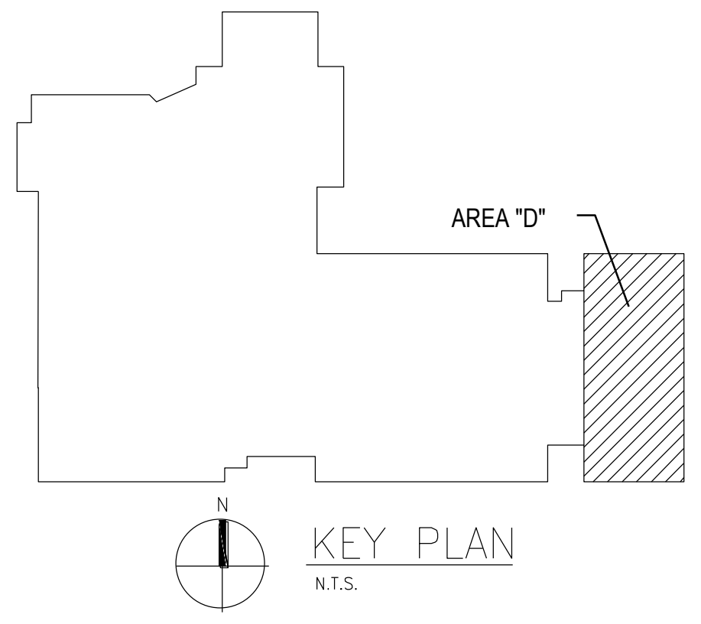

KEY PLAN
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PBA Project No.: 2020.0280

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS BUILDINGS
2020 BOND ISSUE - BID PACKAGE NO. 7 - 2023 PROJECTS

SECOND FLOOR POWER NEW WORK PLAN - AREA 'D'

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☒
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: GJZ

REVISIONS:

CONSTRUCTION OCTOBER 21, 2022
DATE: OCTOBER 21, 2022
SHEET NO.: E3.2DS
JOB NO.: 201879

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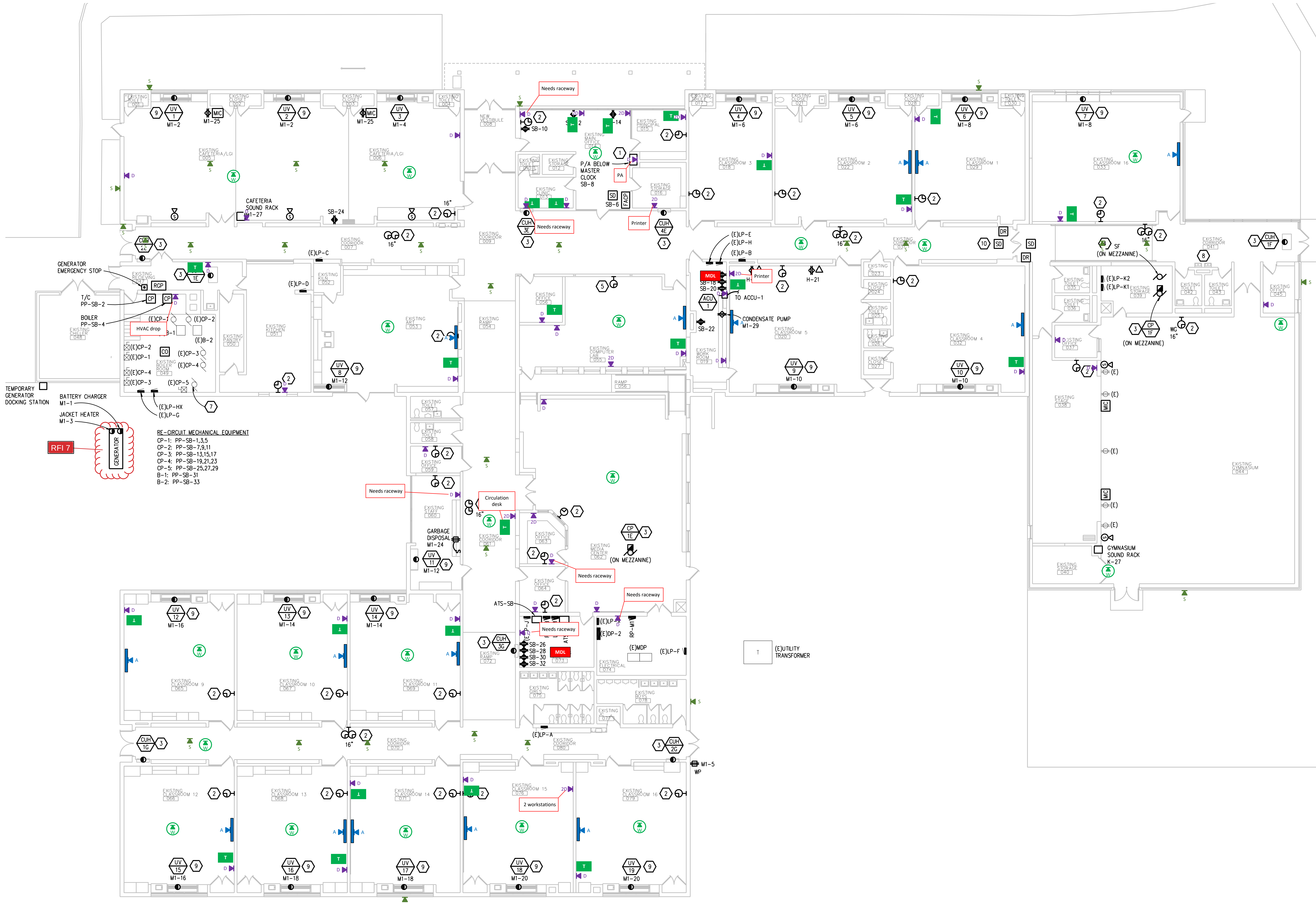
THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



RE-CIRCUIT MECHANICAL EQUIPMENT

CP-1: PP-SB-1,3,5
CP-2: PP-SB-7,9,11
CP-3: PP-SB-13,15,17
CP-4: PP-SB-19,21,23
CP-5: PP-SB-25,27,29
B-1: PP-SB-31
B-2: PP-SB-33

POWER AND AUXILIARY NEW WORK COMPOSITE PLAN

SCALE: 3/32" - 1' - 0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
8. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
9. THE FIRE ALARM DEVICES SHOWN ON PLAN ARE A PARTIAL REPRESENTATION OF THE FIRE ALARM SYSTEM. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INDICATING THE REQUIRED QUANTITIES AND LOCATIONS OF MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL PANELS, POWER SUPPLIES, AND ADDITIONAL DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS, INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR NON-SMOOTH CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS.
   -NOTE: CLASSROOMS AND FRONT OFFICE SPACES HAVE NON-ACCESSIBLE CEILINGS.
10. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
11. CIRCUIT EXIT SIGNS TO UNSWITCHED HOT-LEG OF ADJACENT EMERGENCY LIGHTING BRANCH CIRCUIT.
12. WHERE EXISTING CIRCUITS ARE INDICATED FOR REUSE. PROVIDE GROUND WIRE, AS REQUIRED, PER NEC.

CONSTRUCTION KEY NOTES:

1. MASTER CLOCK CIRCUIT TO MAINTAINED BRANCH CIRCUIT. CONNECT MAINTAINED CLOCK SYSTEM WIRING. EXTEND CONDUIT AND WIRE AS REQUIRED.
2. CONNECT TO MAINTAINED CLOCK SYSTEM WIRING, EXTEND CONDUIT AND WIRE AS REQUIRED.
3. CIRCUIT MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRING AS REQUIRED.
4. RECONNECT REPLACEMENT SUPPLY FAN WITHIN AHU.
5. NEW CLOCK LOCATION, CONNECT TO NEAREST CLOCK CIRCUIT IN AREA.
6. DUCT SMOKE DETECTOR SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE MOUNTING LOCATION AND QUANTITY WITH THE MECHANICAL DUCTWORK CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR/RTU SUPPLY/ RETURN FAN MOTOR STARTER SO THAT UPON DETECTION OF SMOKE, THE SUPPLY/RETURN FAN WILL SHUT DOWN. THIS SHALL BE ACCOMPLISHED VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED CONTROL MODULES AND RELAYS. COORDINATE WITH WITH THE TEMPERATURE CONTROL/FIRE ALARM CONTRACTOR. PROVIDE WEATHER PROOF ENCLOSURES AS REQUIRED.
7. PROVIDE 30 SECOND TIME DELAY OF ENERGIZING EQUIPMENT UPON POWER BEING RESTORED.
8. DISCONNECT EXISTING ELECTRIC WATER COOLER FOR REPLACEMENT. IF CURRENTLY SERVED BY GFCI RECEPTACLE, REPLACE RECEPTACLE WITH NON-GFCI RECEPTACLE. RE-CIRCUIT NEW ELECTRIC WATER COOLER TO EXISTING BRANCH CIRCUIT/RECEPTACLE. FIELD VERIFY CIRCUIT BREAKER SERVING ELECTRIC WATER COOLER AND REPLACE WITH GFCI BREAKER.
9. PROVIDE 15A IN-LINE FUSE INSIDE UNIT VENTILATOR.
10. PROVIDE FIRE ALARM CONTROL MODULES AND SMOKE DETECTORS FOR DOOR RELEASE. COORDINATE MOUNTING WITH FIELD CONDITIONS. WIRE TO FIRE ALARM PANEL SO THAT UPON SYSTEM ALARM, DOOR WILL CLOSE.

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PBA Project No.: 2023-0032

FARMINGTON PUBLIC SCHOOLS
RENOVATIONS TO VARIOUS SCHOOLS
2020 BOND ISSUE - BID PACKAGE No. 11 - 2024 PROJECTS

Central High School

POWER AND AUXILIARY NEW WORK COMPOSITE PLAN

PRELIMINARY ☐
DESIGN DEVELOPMENT ☐
CONSTRUCTION ■
FINAL RECORD ☐

DRAWN BY: GBS
CHECKED BY: STP

REVISIONS:

CONSTRUCTION	DECEMBER 21, 2023

DATE: DECEMBER 21, 2023

SHEET NO.:
E3.1CH

JOB NO.: 201879

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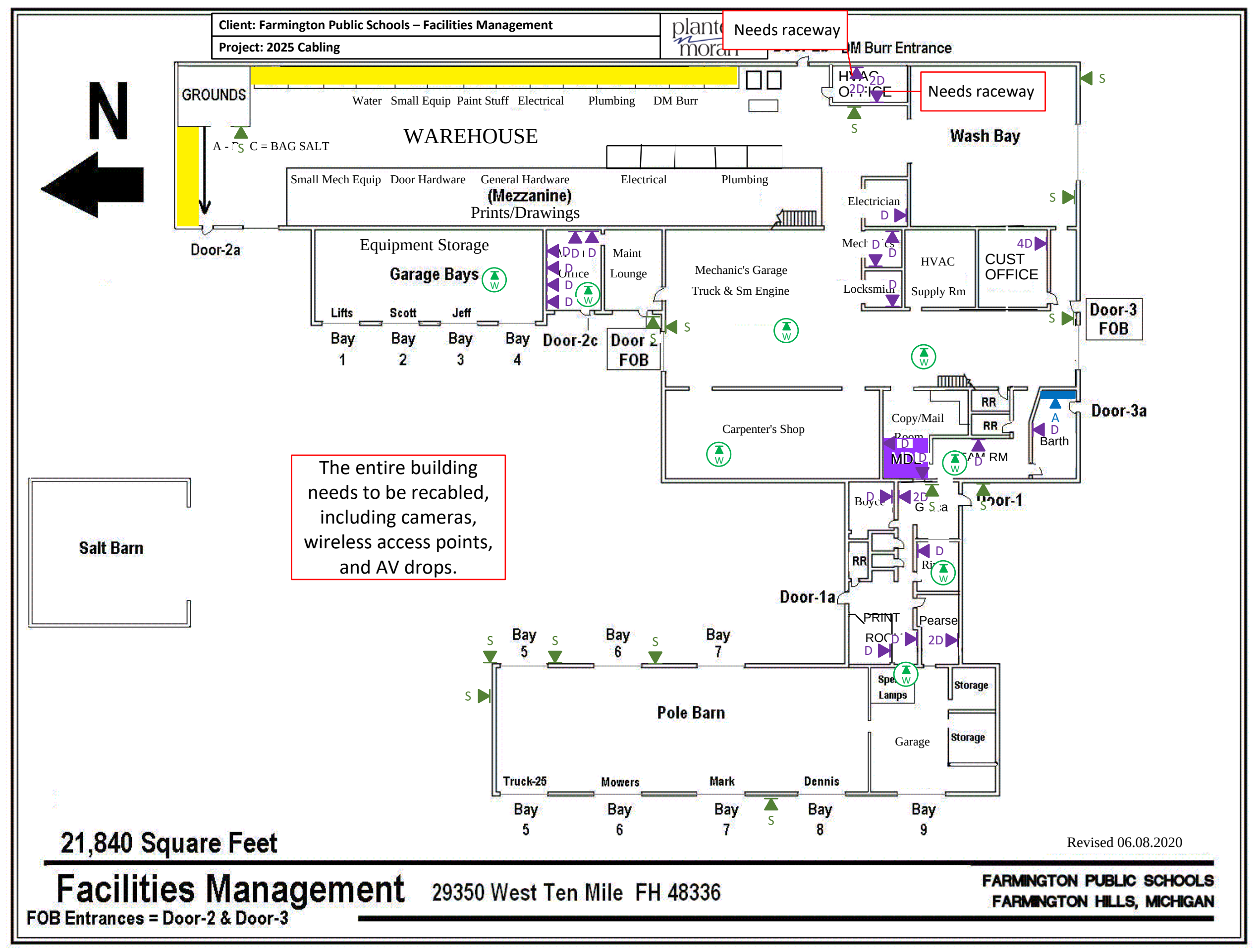


Client: Farmington Public Schools – Facilities Management

Project: 2025 Cabling

Needs raceway

Needs raceway

The entire building needs to be recabled, including cameras, wireless access points, and AV drops.

21,840 Square Feet

Revised 06.08.2020

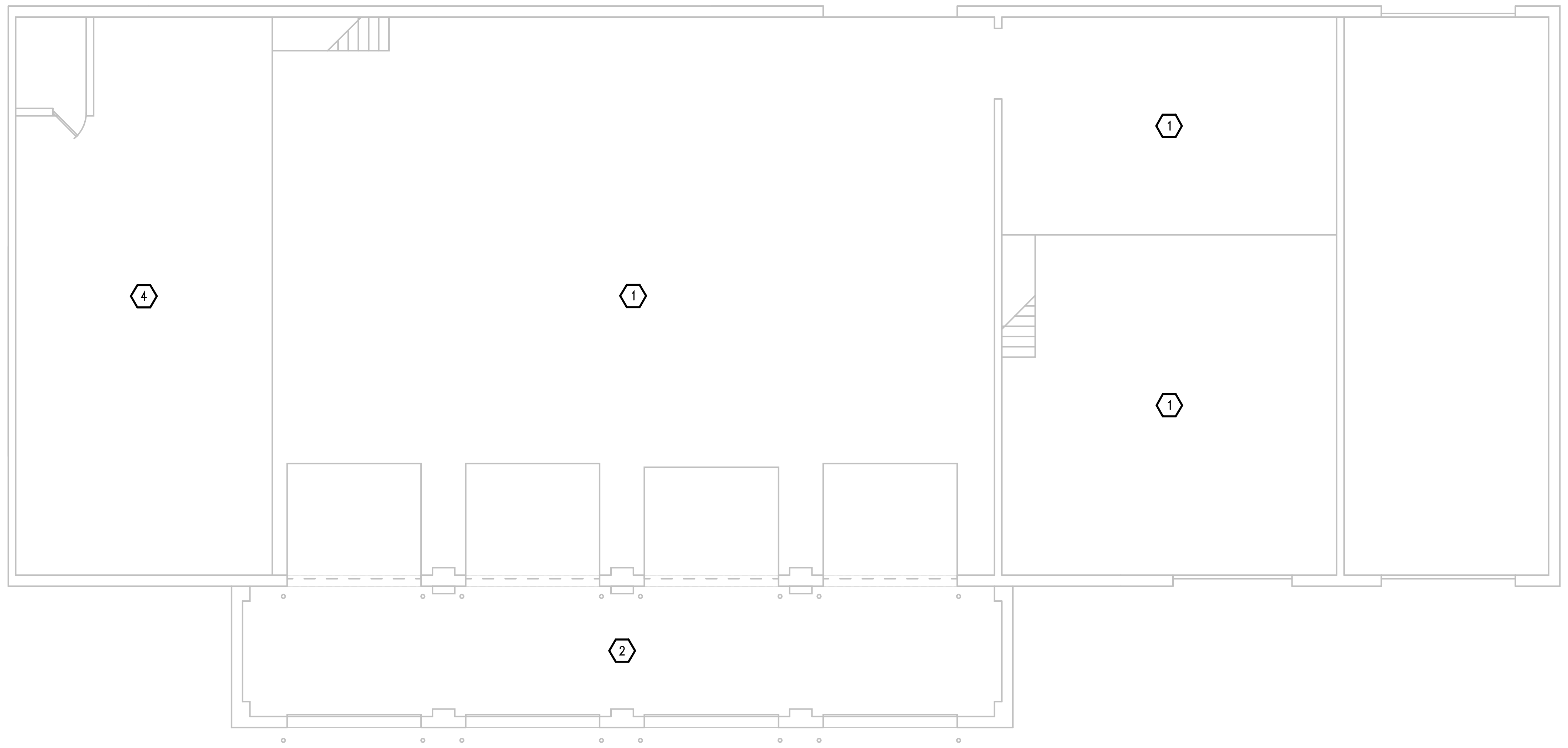
Facilities Management 29350 West Ten Mile FH 48336

FOB Entrances = Door-2 & Door-3

FARMINGTON PUBLIC SCHOOLS
FARMINGTON HILLS, MICHIGAN

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE. 1"

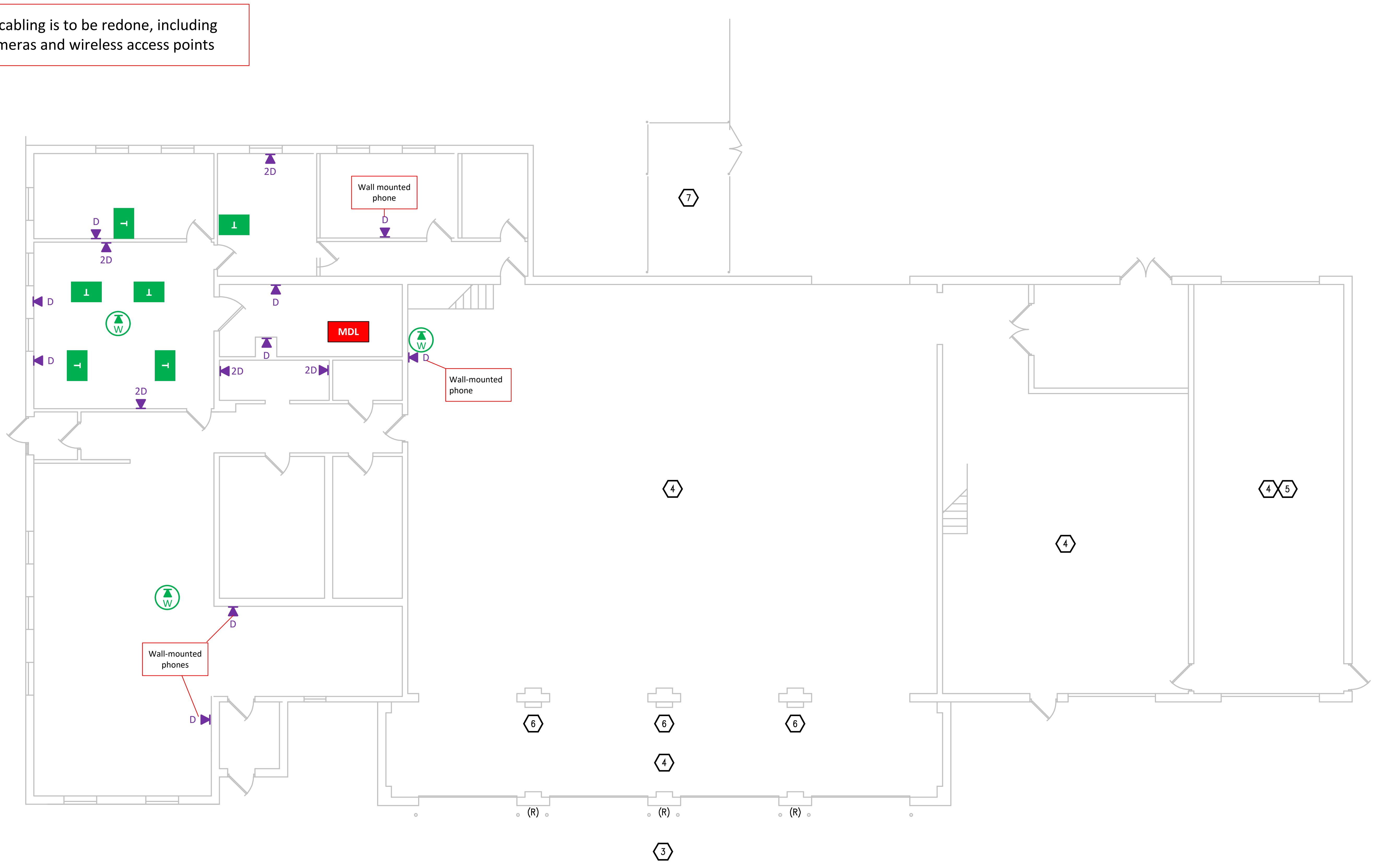
Client: Farmington Public Schools – Transportation	plante moran
Project: 2025 Cabling	



MEZZANINE DEMOLITION AND NEW WORK ELECTRICAL COMPOSITE PLAN

SCALE: 1/8" = 1' - 0"

All cabling is to be redone, including cameras and wireless access points



FIRST FLOOR DEMOLITION AND NEW WORK ELECTRICAL COMPOSITE PLAN

SCALE: 1/8" = 1' - 0"

ELECTRICAL DEMOLITION GENERAL NOTES:

1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
3. REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
6. REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
7. MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
8. DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
9. PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
10. RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
11. PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

ELECTRICAL GENERAL NOTES:

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5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
8. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
9. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

⟨#⟩ CONSTRUCTION KEY NOTES:

1. REMOVE EXISTING FLUORESCENT FIXTURES AND PROVIDE NEW LED LIGHTING EQUIVALENT TO LITHONIA CLX SERIES 10,000 LUMENS TO ACHEIVE 60 FOOTCANDLES AT THE FLOOR. PROVIDE ASHRAE 90.1-2019 COMPLIANT LIGHTING CONTROLS.
2. PROVIDE NEW LED LIGHTING FIXTURES EQUIVALENT TO LITHONIA CLX SERIES 10,000 LUMENS TO ACHIEVE 60 FOOTCANDLES AT THE FLOOR. PROVIDE ASHRAE 90.1-2019 COMPLIANT LIGHTING CONTROLS.
3. REMOVE AND REPLACE EXISTING POLE MOUNTED LIGHT FIXTURES WITH NEW COOPER GALLEON 2 SERIES TYPE (IV) 20,000 LUMENS OR EQUIVALENT. UTILIZE EXISTING LIGHTING BRANCH CIRCUITS FOR NEW LIGHTING. APPROXIMATELY (5) 2 HEADED POLE LOCATIONS.
4. PROVIDE NEW BRANCH CIRCUITS (CONDUIT AND WIRING) TO NEW MECHANICAL EQUIPMENT.
5. REMOVE EXISTING FIXTURES AND PROVIDE NEW LED WALL MOUNTED LIGHTING EQUIVALENT TO LITHONIA TWPX2 SERIES 5,000 LUMENS AND ASHRAE 90.1-2019 COMPLIANT LIGHTING CONTROLS.
6. DISCONNECT, REMOVE AND RELOCATE WALL MOUNTED LIGHT FIXTURE TO NEW LOCATION AS INDICATED. INTERCEPT AND EXTEND BRANCH CIRCUIT (CONDUIT AND WIRING) TO NEW LOCATION.
7. DISCONNECT, REMOVE AND REPLACE 80KW 120/240V, 1P, 3W GENERATOR AND ASSOCIATED 2 POLE TRANSFER SWITCH. DISCONNECT AND RECONNECT NORMAL AND LOADSIDE CONDUIT AND WIRING ONCE NEW GENERATOR IS IN PLACE.

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FARMINGTON PUBLIC SCHOOLS
TRANSPORTATION BUILDING RENOVATIONS
2020 BOND ISSUE - BID PACKAGE NO. 15

DEMOLITION AND NEW WORK ELECTRICAL COMPOSITE PLAN

PRELIMINARY ■
DESIGN DEVELOPMENT ☐
CONSTRUCTION ☐
FINAL RECORD ☐

DRAWN BY: MPD
CHECKED BY: STP

REVISIONS:

DATE: .

SHEET NO.:
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JOB NO.: 201879