

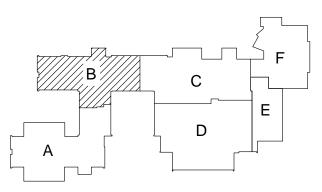
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- 10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- 11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- 12. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING 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.
- 13. CIRCUIT NEW EXIT SIGNS TO UNSWITCHED HOT LEG OF ADJACENT LIGHTING BRANCH CIRCUIT.
- 14. WHERE NEW CEILINGS ARE INSTALLED OR WALLS ARE BEING FURRED OUT. REMOVE AND REINSTALL FIRE ALARM DEVICES AS REQUIRED.

### UNIT B FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN SCALE: 1/8" - 1" - 0"

- 15. PROVIDE (2) 1" CONDUIT SLEEVES WITH PLASTIC BUSHINGS AND PULL STRING. COORDINATE FINAL LOCATIONS WITH TECHNOLOGY CONTRACTOR.
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- 22. NEW CEILING FAN. PROVIDE KITCHLER MODEL 330025WH AND NEW COMPATIBLE CONTROLLER.

- PUSH PAD BACK BOX IS 2-GANG. NO EXTERIOR SURFACE MOUNT CONDUIT IS ACCEPTABLE.
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- 14. CIRCUIT TO NEW 20A-1P BREAKER IN RP-M2. LOCATE IN AVAILABLE SPACE.

KEY PLAN



ISSUE DATE	ISSUED FOR	
11/02/2020	CONSTRUCTION DRAWINGS	
DRAWN	ZDB	_
CHECKED	ZDB	
APPROVED	GJZ	

快商 Peter Basso Associates Inc CONSULTING ENGINEERS 5145 Livernois, Suite 100 Troy, Michigan 48098-3276 Tel: 248-879-5666 Fax: 248-879-0007 www.PeterBassoAssociates.com PBA Project No.: 2019.0129

ARCHITECTS

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\_\_ EHRESMAN



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**FRENCH** associates 236 Mill Street Rochester, MI 48307 T 248.656.1377 F 248.656.7746 © FRENCH ASSOCIATES, INC.

## PRØJECT

**GROSSE POINTE PUBLIC SCHOOLS** BROWNELL MS RENOVATIONS

**GROSSE POINTE FARMS** MICHIGAN

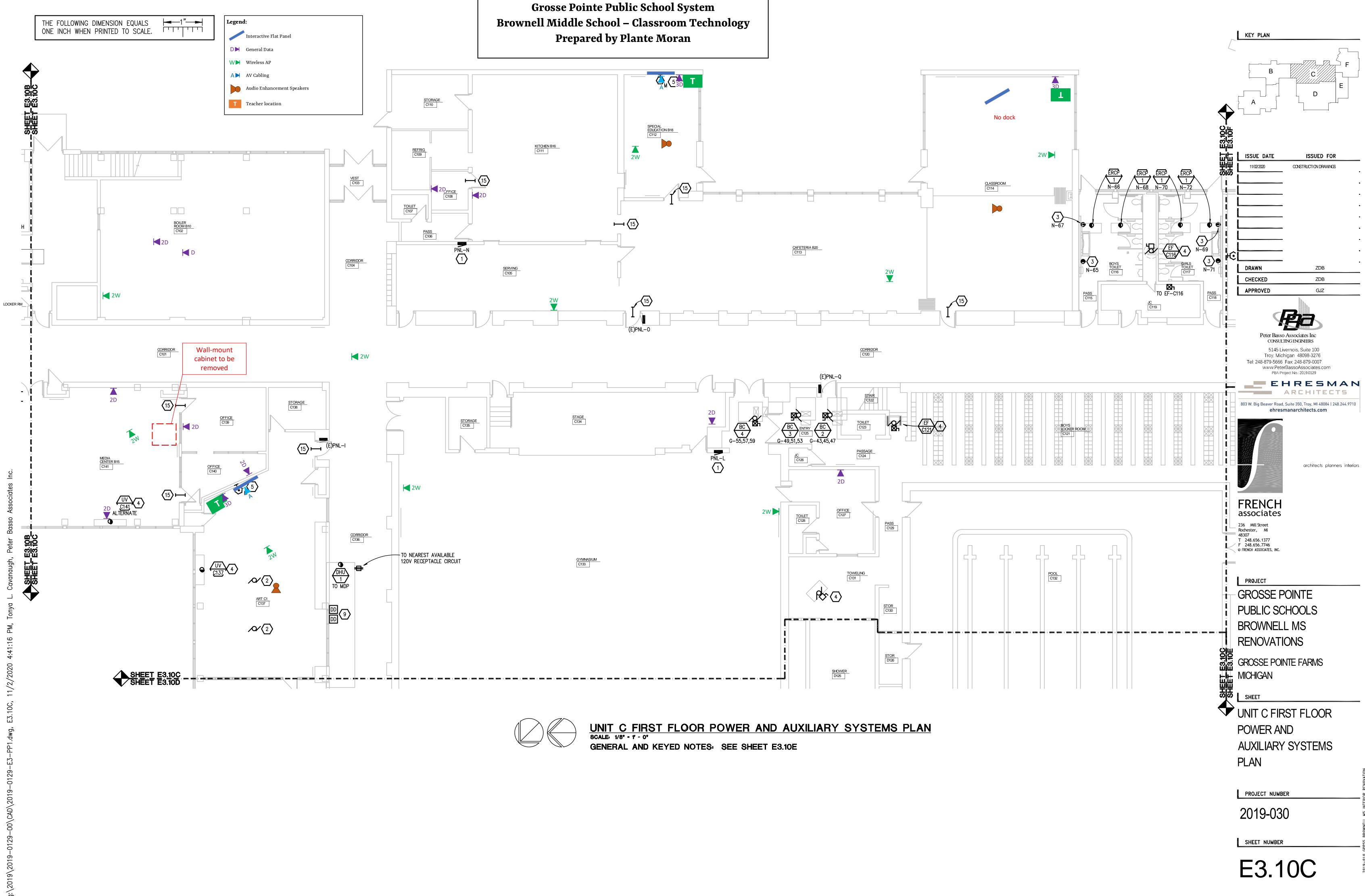
### SHEET

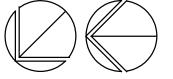
**UNIT B FIRST FLOOR** POWER AND AUXILIARY SYSTEMS PLAN

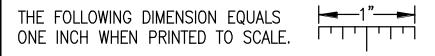
PROJECT	NUMBER
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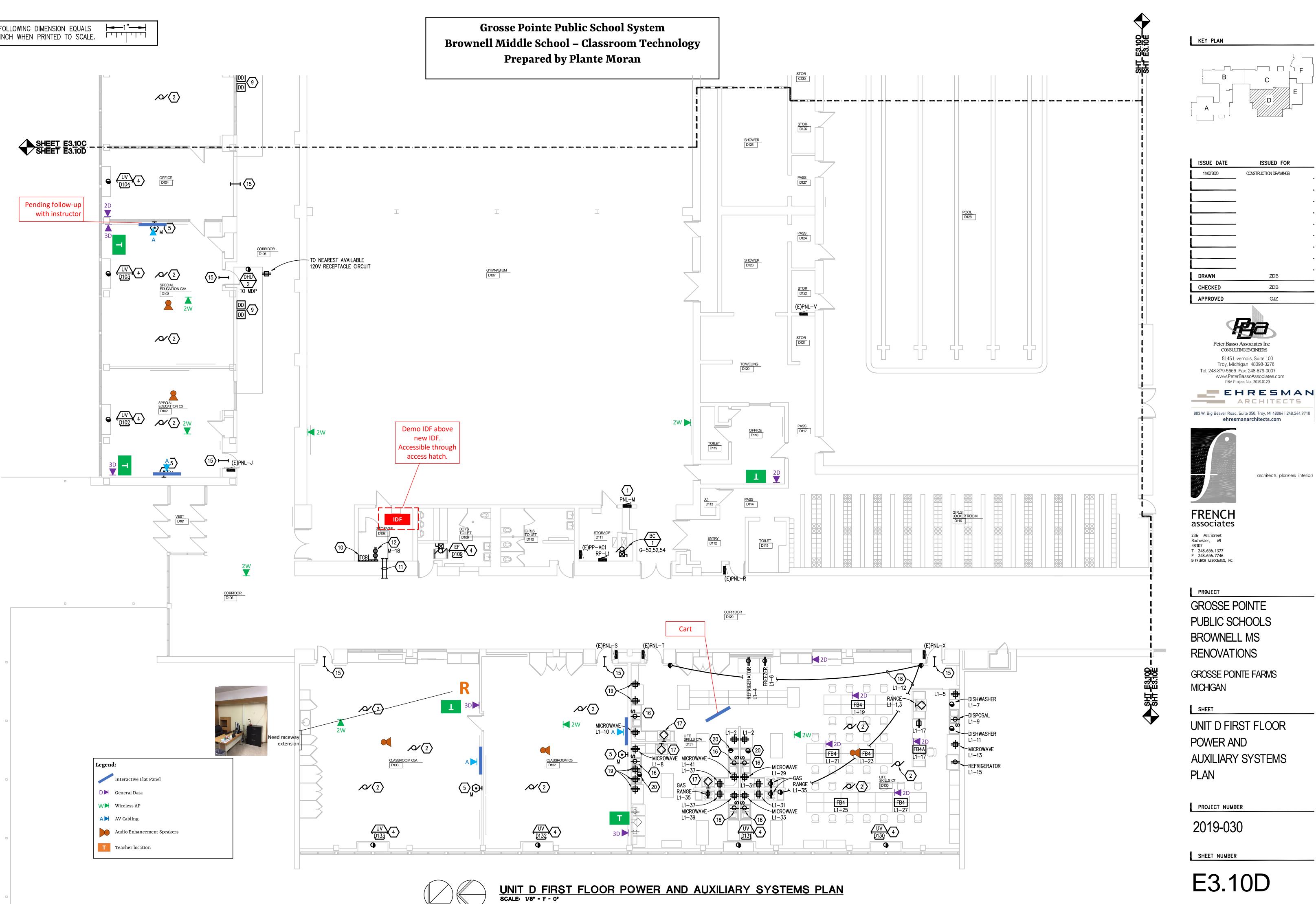
2019-030

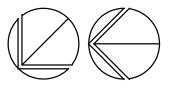
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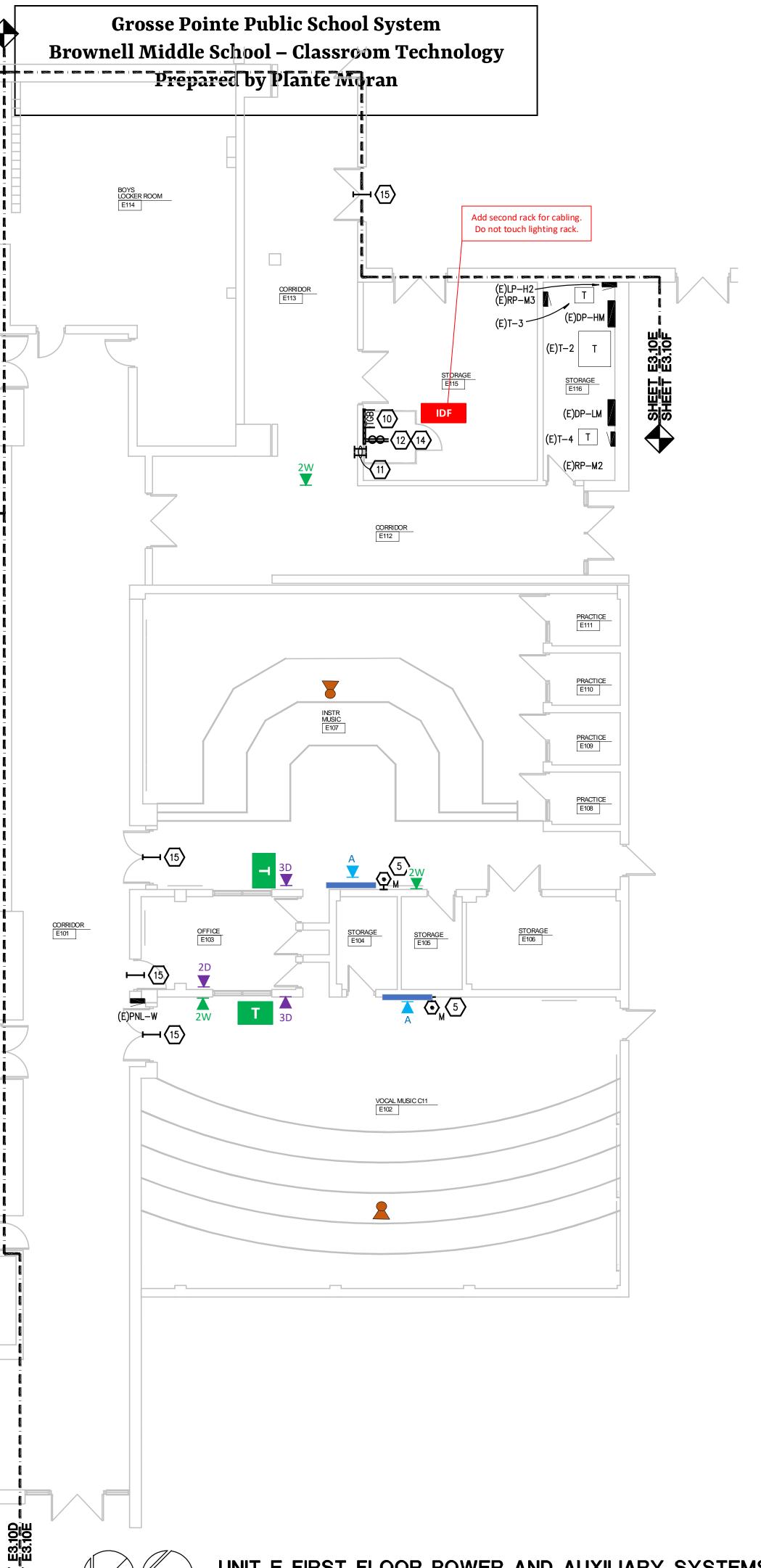


GENERAL AND KEYED NOTES: SEE SHEET E3.10E

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.	

Legend:		
	Interactive Flat Panel	
D	General Data	
WÞ	Wireless AP	
A	AV Cabling	
	Audio Enhancement Speakers	
Т	Teacher location	

SHEET E3.10F SHEET E3.10E



SHT.

 $\blacklozenge$ 

UNIT E FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN SCALE: 1/8" - 1' - 0"

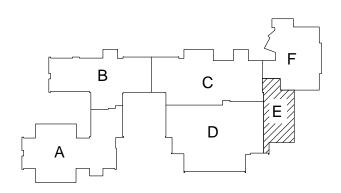
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- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE 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.
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KEY PLAN



ISSUE DATE	ISSUED FOR
11/02/2020	CONSTRUCTION DRAWINGS
DRAWN	ZDB
CHECKED	ZDB
APPROVED	GJZ



5145 Livernois, Suite 100 Troy, Michigan 48098-3276 Tel: 248-879-5666 Fax: 248-879-0007 www.PeterBassoAssociates.com





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### PRØJECT

GROSSE POINTE PUBLIC SCHOOLS BROWNELL MS RENOVATIONS

GROSSE POINTE FARMS MICHIGAN

### SHEET

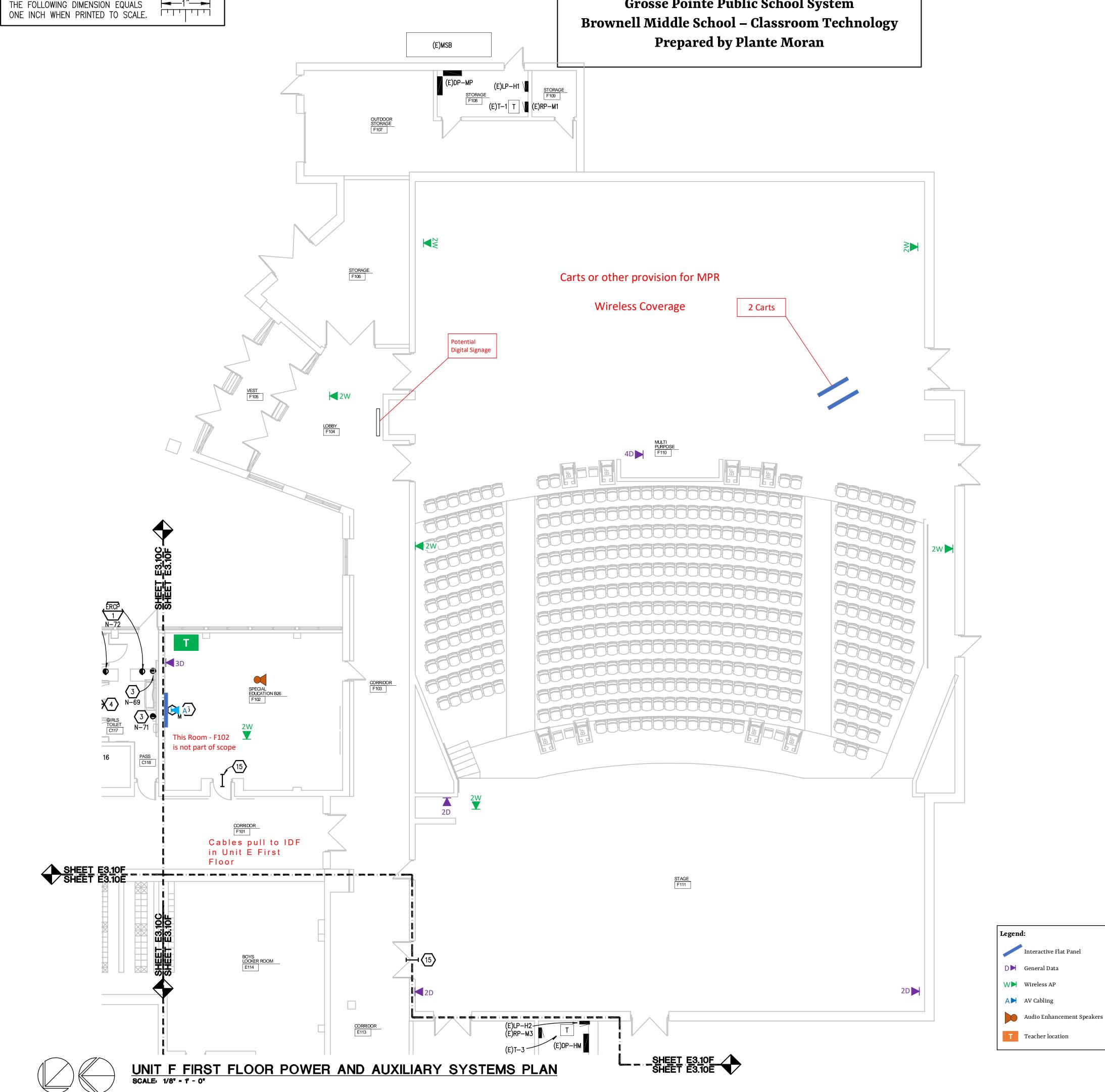
UNIT E FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN

PROJECT NUMBER

2019-030

SHEET NUMBER

E3.10E



**|⊲**−1"**−**►

# **Grosse Pointe Public School System**

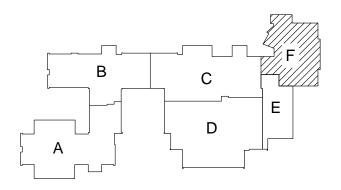
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	-
	-
	-
	-
	-
	-
DRAWN	ZDB
CHECKED	ZDB
APPROVED	GJZ



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**GROSSE POINTE** PUBLIC SCHOOLS BROWNELL MS RENOVATIONS

GROSSE POINTE FARMS MICHIGAN

## SHEET

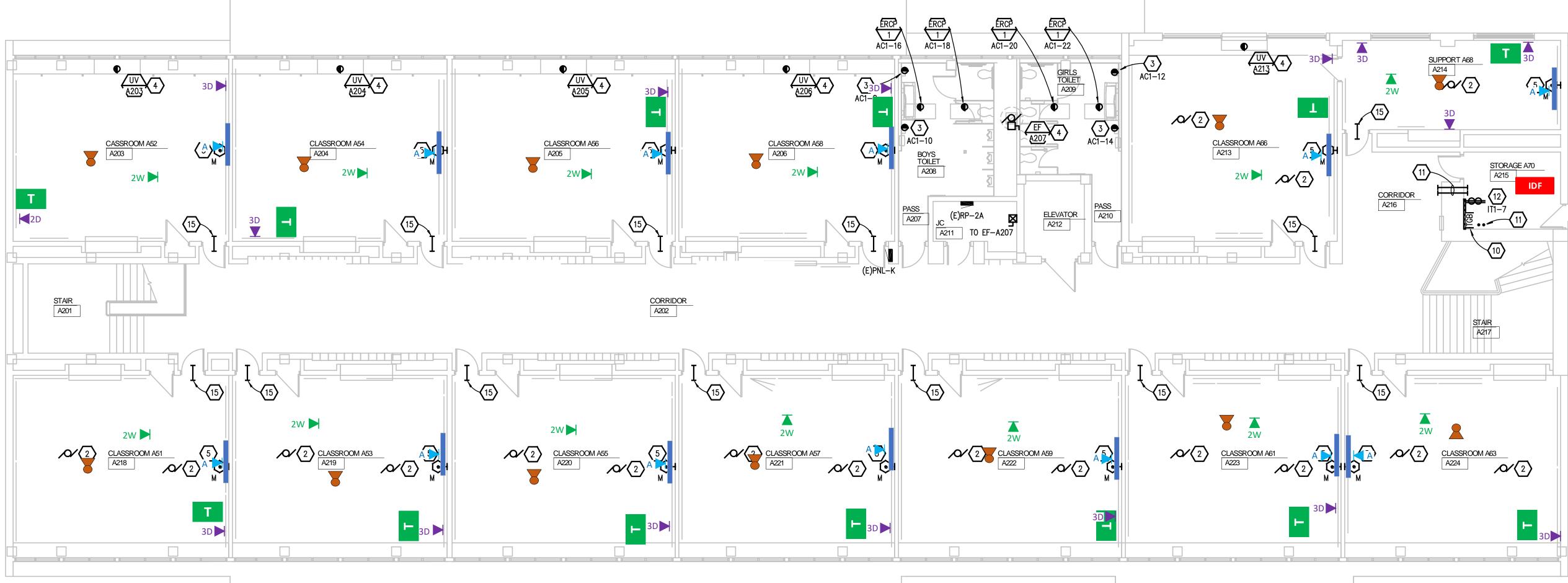
UNIT F FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN

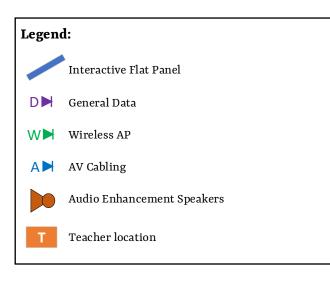
PROJECT NUMBER
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2019-030

SHEET NUMBER

THE FOLLOWING DIMENSION EQUALS





# **Grosse Pointe Public School System Brownell Middle School – Classroom Technology Prepared by Plante Moran**



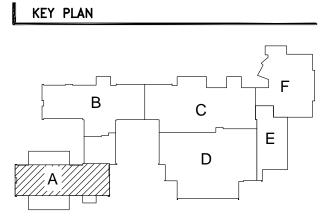
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GENERAL NOTES: SEE SHEET E3.10E

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- 16. NEW IN-SINK DISPOSAL. CIRCUIT TO MAINTAINED BRANCH CIRCUIT SERVING OLD DISPOSAL. EXTEND CONDUIT AND WIRE AS REQUIRED.
- 17. RELOCATED ELECTRIC RANGE. CIRCUIT TO MAINTAINED BRANCH CIRCUIT. PROVIDE NEW 40A-2P GFCI BREAKER WHERE EXISTING WAS REMOVED. COORDINATE NEMA CONFIGURATION WITH OWNER.
- 18. PROVIDE CONTROL WIRING TO EMERGENCY SOLENOID VALVE AND EMERGENCY GAS SHUT OFF SWITCH. COORDINATE WITH MECHANICAL VALVE MANUFACTURERS WIRING DIAGRAM.
- 19. PROVIDE NEW RECEPTACLE WHERE EXISTING WAS REMOVED. CIRCUIT TO MAINTAINED BRANCH CIRCUIT.
- 20. DISHWASHER. CIRCUIT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- 21. EXTEND EXISTING CEILING MOUNT RECEPTACLE DOWN TO NEW LAY-IN CEILING. CENTER RECEPTACLE IN CEILING TILE. EXTEND CONDUIT AND WIRE AS REQUIRED.
- 22. NEW CEILING FAN. PROVIDE KITCHLER MODEL 330025WH AND NEW COMPATIBLE CONTROLLER.

# (#) CONSTRUCTION KEY NOTES:

- 1. CIRCUIT NEW PANELBOARD TO MAINTAINED FEEDERS AND BRANCH CIRCUITS. EXTEND CONDUIT AND WIRE AS REQUIRED.
- 2. NEW CEILING FAN. PROVIDE KITCHLER MODEL 330025WH AND NEW COMPATIBLE CONTROLLER, LOCATE NEW CONTROLS WHERE EXISTING WAS REMOVED. CIRCUIT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- 3. NEW ELECTRIC HAND DRYER, PROVIDED BY ARCHITECTURAL INSTALL BY ELECTRICAL CONTRACTOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH IN.
- 4. CIRCUIT NEW MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
- 5. NEW INTERACTIVE FLAT PANEL (BY OTHERS). CIRCUIT TO BRANCH CIRCUIT PREVIOUSLY SERVING PROJECTOR. EXTEND CONDUIT AND WIRE AS REQUIRED. REFER TO DETAIL ON E7 SERIES.
- 6. PROVIDE 120V CIRCUITING IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION AND ACCESS CONTROL DIAGRAM(S) ON E7 SERIES FOR RACEWAYS AND BACK BOXES REQUIRED FOR DOOR OR BANK OF DOORS INDICATED. PROVIDE ALL REQUIRED RACEWAYS AND BACK BOXES. COORDINATE WITH DOOR HARDWARE CONTRACTOR. PROVIDE 1" CONDUIT FROM ARCHITECTURAL CASEWORK DOOR RELEASE BUTTON TO ACCESSIBLE CEILING SPACE ABOVE DOORS FOR SECURITY DOOR RELEASE.
- 7. FUTURE CARD ACCESS LOCATION. PROVIDE RECESSED SINGLE GANG JUNCTION BOX WITH BLANK STAINLESS STEEL FACE PLATE. STUB 1"C. UP INTO ACCESSIBLE CORRIDOR CEILING SPACE, PROVIDE NYLON PULL STRING WITH PLASTIC BUSHING ON END OF CONDUIT.
- 8. PUSH PAD FOR AUTOMATIC DOORS. ALL DOOR AND PUSH PAD HARDWARE IS PROVIDED BY DOOR CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL PUSH PADS AND PROVIDE CONDUIT AND WIRE FOR COMPLETE OPERATION. COORDINATE WITH DOOR CONTRACTOR. PUSH PAD BACK BOX IS 2-GANG. NO EXTERIOR SURFACE MOUNT CONDUIT IS ACCEPTABLE.
- 9. DUCT SMOKE DETECTOR SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE MOUNTING LOCATION AND QUANTITY WITH MECHANICAL DUCTWORK CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO RTU SUPPLY/RETURN FAN MOTOR STARTER SUCH THAT UPON DETECTION OF SMOKE 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 TEMPERATURE CONTROLS AND FIRE ALARM CONTRACTOR. PROVIDE WEATHER PROOF ENCLOSURES AS REQUIRED.
- 10. NEW TELECOMMUNICATIONS GROUND BUS. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN. REFER TO DETAIL ON E7 SERIES.
- 11. 4" CONDUIT SLEEVES. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR. PROVIDE PLASTIC BUSHING WITH PULL STRING. PROVIDE FIRE STOP AS REQUIRED.
- 12. RECEPTACLE FOR NEW MDF/IDF RACK COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
- 13. CABLE TRAY. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.



ISSUE DATE	ISSUED FOR	
11/02/2020	CONSTRUCTION DRAWINGS	
DRAWN	ZDB	
CHECKED	ZDB	
APPROVED	GJZ	,

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PRØJECT

**GROSSE POINTE** PUBLIC SCHOOLS BROWNELL MS RENOVATIONS

**GROSSE POINTE FARMS** MICHIGAN

### SHEET

UNIT A SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN

PROJECT NUMBER

2019-030

SHEET NUMBER

E3.20A