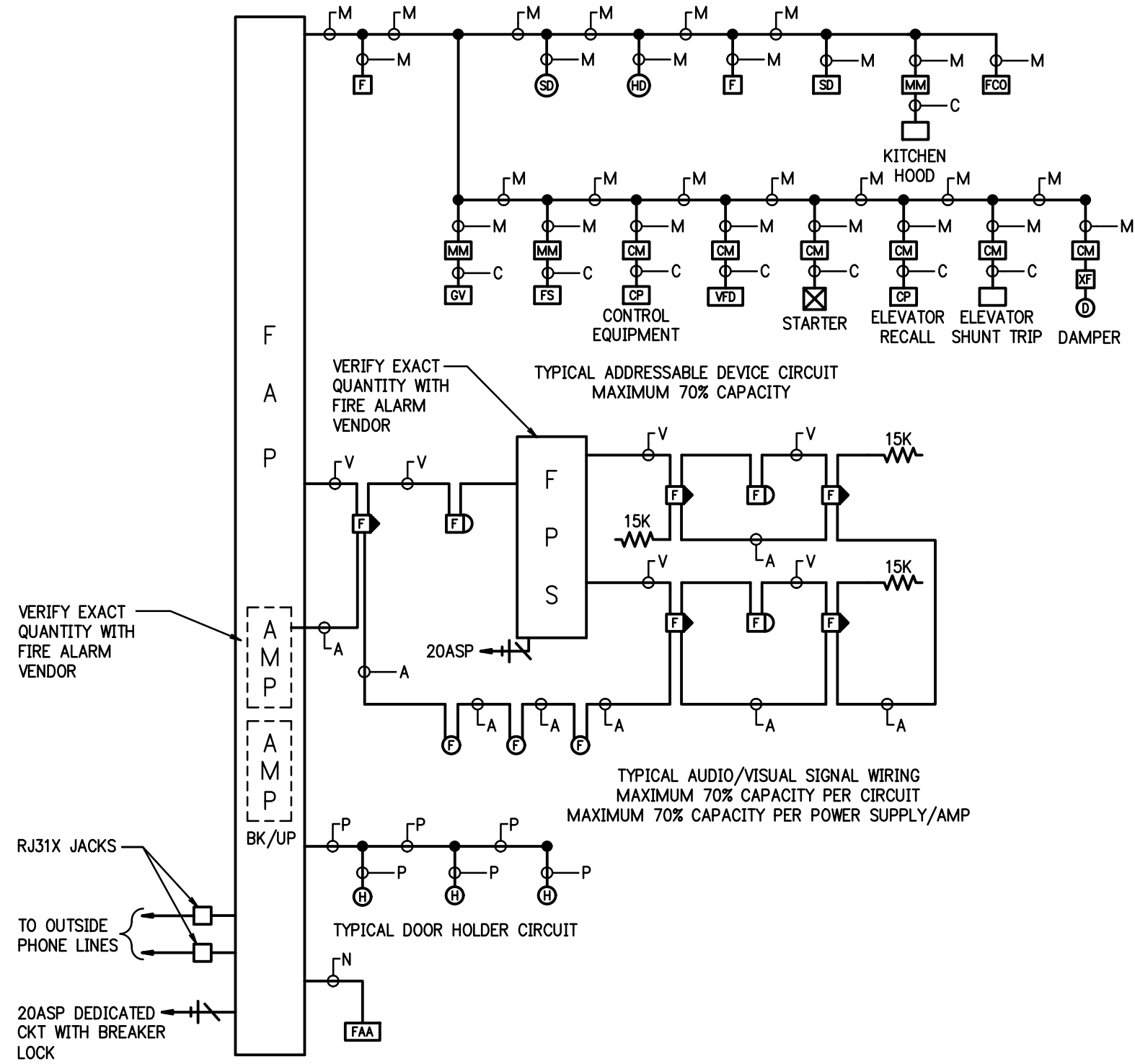
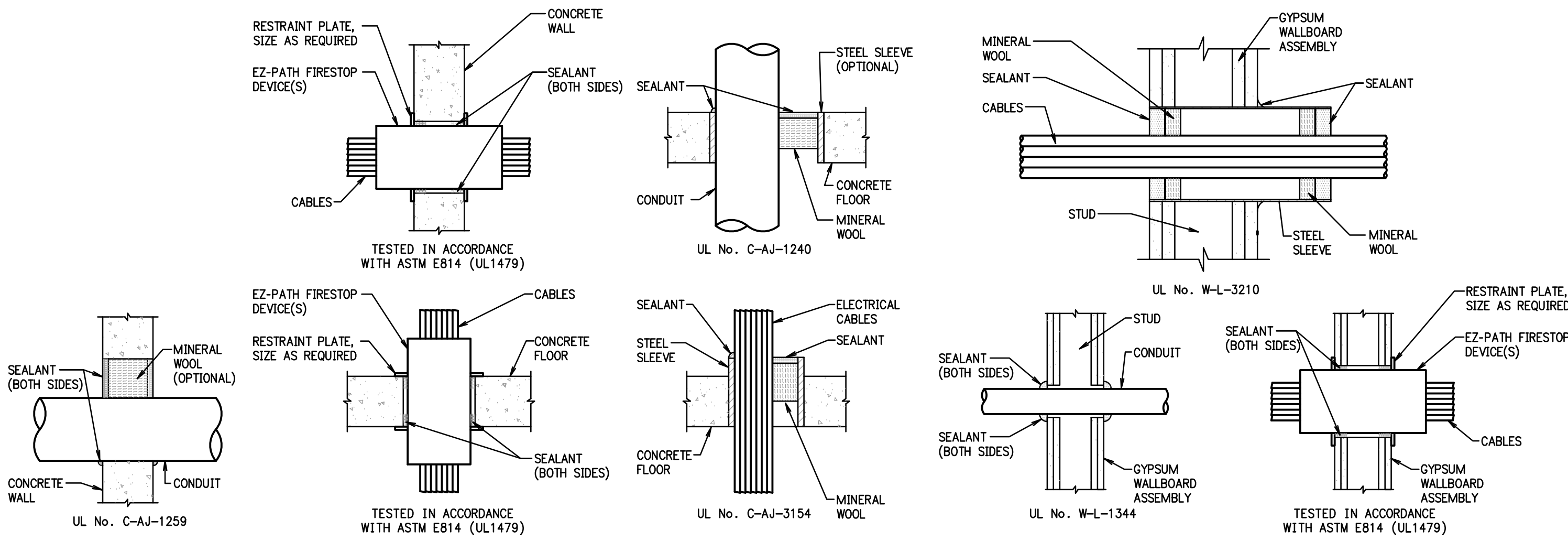


| WIRE LEGEND |                       | CONDUCTORS IN CONDUIT ONLY (THHN)    |                           | NON-CONDUIT POWER-LIMITED |                     | NON-CONDUIT NONPOWER-LIMITED |                      |
|-------------|-----------------------|--------------------------------------|---------------------------|---------------------------|---------------------|------------------------------|----------------------|
| CABLE       | DESCRIPTION           | SIZE AND TYPE                        | COLOR                     | CABLE (FPL)               | PLENUM CABLE (PLFP) | CABLE (NPLF)                 | PLENUM CABLE (NPLFP) |
| A           | AUDIO CIRCUIT         | 2 #16 TW, SH.                        | 1-YELLOW (+), 1-BLUE (-)  | WEST PENN #991            | WEST PENN #60990    | WEST PENN #1991              | WEST PENN #251991    |
| C           | CONTROL CIRCUIT       | 2 #14 THHN                           | 1-ORANGE (+), 1-BROWN (-) | WEST PENN #994            | WEST PENN #60993    | WEST PENN #1994              | WEST PENN #251994    |
| M           | ADDRESSABLE CIRCUIT   | 2#18 TW, SH. PR. WP 975              | 1-RED (+), 1-BLACK (-)    | WEST PENN #980            | WEST PENN #60980    | WEST PENN #1980              | WEST PENN #251980    |
| P           | POWER/DOOR HOLDER     | 2 #14 THHN                           | 2-GRAY                    | WEST PENN #994            | WEST PENN #60993    | WEST PENN #1994              | WEST PENN #251994    |
| V           | VISUAL SIGNAL CIRCUIT | 2 #14 THHN                           | 1-RED (+), 1-BLACK (-)    | WEST PENN #994            | WEST PENN #60993    | WEST PENN #1994              | WEST PENN #251994    |
| N           | REMOTE ANNUNCIATOR    | 2#18 TW, SH. PR. WP 975 & 2 #14 THHN | 1-RED (+), 1-BLACK (-)    | WEST PENN #975            | WEST PENN #60975    | WEST PENN #1975              | WEST PENN #251975    |
|             |                       |                                      |                           | WEST PENN #994            | WEST PENN #60993    | WEST PENN #1994              | WEST PENN #251994    |

WIRE LEGEND NOTES:  
A. SPECIFIED CABLES BASED UPON WEST PENN, ACCEPTABLE APPROVED CABLE MANUFACTURERS INCLUDE:  
BELDEN, ATLAS, BSCC, AND REMEE.



(ADDRESSABLE SPEAKER/STROBE)  
**FIRE ALARM RISER**  
SCALE: NONE



**CONCRETE/MASONRY FLOOR & WALLS**

**GYPSUM WALLBOARD ASSEMBLIES**

- NOTES:
- CABLE AND CONDUIT PENETRATION DETAILS ARE BASED ON A UL LISTED 2 HOUR FIRE RATED ASSEMBLY (MINIMUM) UTILIZING STI FIRESTOP PRODUCTS. MANUFACTURERS SHALL BE STI, HILTI, 3M OR APPROVED EQUAL. REFER TO MANUFACTURER'S SPECIFICATIONS AND INSTALLATION DETAILS FOR EXACT INSTALLATION METHODS.
  - PACKING AND SEALANT DEPTHS SHALL BE PER MANUFACTURER'S SPECIFICATIONS FOR UL ASSEMBLY RATING COMPLIANCE.
  - ALL FIRESTOP LOCATIONS SHALL BE LABELED AT POINT OF PENETRATION LABEL SHALL IDENTIFY FIRE STOPPING MATERIAL, U.L. LISTING NUMBER AND HOUR RATING OF WALL/FLOOR.

**CONDUIT/CABLE PENETRATIONS THROUGH RATED ASSEMBLIES**  
SCALE: NONE

| DRAWING INDEX      |   |
|--------------------|---|
| SHT. No.           | DESCRIPTION   |
| EF001              | LEGEND  |
| ELEMENTARY SCHOOL  |   |
| EF101              | ELEMENTARY SCHOOL - SOUTH                           |
| EF102              | ELEMENTARY SCHOOL - NORTH                           |
| EF103              | ELEMENTARY SCHOOL - NORTHWEST AND MEZZANINE         |
| MIDDLE/HIGH SCHOOL |   |
| EF111              | MIDDLE SCHOOL - FIRST FLOOR NORTH                   |
| EF112              | MIDDLE SCHOOL - FIRST FLOOR SOUTH                   |
| EF113              | HIGH SCHOOL - FIRST FLOOR WEST                      |
| EF114              | HIGH SCHOOL - FIRST FLOOR EAST                      |
| EF115              | HIGH SCHOOL - FIRST FLOOR SE AND SW; AND BUS GARAGE |
| EF121              | MIDDLE SCHOOL - SECOND FLOOR                        |
| EF122              | HIGH SCHOOL - SECOND FLOOR                          |
| EF701              | SPECIFICATIONS                                      |

| LEGEND |  |
|--------|--|
|        | FIRE ALARM CONTROL PANEL   |
|        | FIRE ALARM ANNUNCIATOR   |
|        | FIRE ALARM BOOSTER POWER SUPPLY  |
|        | FIRE ALARM STROBE, WALL MOUNTED, CANELLA (CD) AS SHOWN ON DRAWINGS   |
|        | FIRE ALARM STROBE, CEILING MOUNTED, CANELLA (CD) AS SHOWN ON DRAWINGS  |
|        | FIRE ALARM SPEAKER ONLY, WALL MOUNTED, SPEAKER TAP SETTING (W) AS SHOWN ON DRAWINGS  |
|        | FIRE ALARM SPEAKER AND STROBE, WALL MOUNTED, CANELLA (CD) AS SHOWN ON DRAWINGS, SPEAKER TAP SETTING (W) AS SHOWN ON DRAWINGS   |
|        | FIRE ALARM SPEAKER AND STROBE, CEILING MOUNTED, CANELLA (CD) AS SHOWN ON DRAWINGS, SPEAKER TAP SETTING (W) AS SHOWN ON DRAWINGS  |
|        | FIRE ALARM PAGING HORN SPEAKER, CEILING MOUNTED  |
|        | FIRE ALARM CEILING SPEAKER, SPEAKER TAP SETTING (W) AS SHOWN ON DRAWINGS   |
|        | FIRE ALARM PULL STATION  |
|        | CEILING SMOKE DETECTOR   |
|        | CEILING HEAT DETECTOR WITH EXTRA SET OF N.O. CONTACTS  |
|        | CARBON MONOXIDE DUCT DETECTOR  |
|        | DUCT SMOKE DETECTOR WITH EXTRA SET OF N.O. CONTACTS  |
|        | DOOR HOLDER  |
|        | FIRE ALARM MONITOR MODULE  |
|        | FIRE ALARM CONTROL MODULE  |
|        | FIRE ALARM REMOTE TEST STATION   |
|        | EXISTING TORNADO RECEIVER  |
|        | DOOR HOLDER  |
| EL     | INDICATES NEW DEVICE INSTALLED IN EXISTING LOCATION, REUSE EXISTING WIRING WHERE FEASIBLE. ALL EL DEVICES SHOWN, CONTRACTOR SHALL REMOVE EXISTING DEVICE. EXISTING BACKBOX SHALL REMAIN. |
| WG     | WIRE GUARD   |
| WP     | WEATHER PROOF  |
|        | EXISTING ITEM TO REMAIN UNLESS OTHERWISE NOTED   |
|        | EXISTING ITEM TO BE REMOVED  |

- GENERAL NOTES:
- THE INTENT OF THIS FIRE ALARM PACKAGE IS TO PROVIDE THE OWNER WITH A NEW FIRE ALARM SYSTEM THAT MEETS CURRENT CODES AND STANDARDS, AND YET UTILIZES EXISTING FIRE ALARM WIRING. EXISTING SYSTEM IS EDWARDS EST-2 SERIES PANEL AND DEVICES.
  - SEE SPEC SECTION 01 2300 FOR FIRE ALARM ALTERNATE.

STATE OF OHIO  
ROGER D. DeBELLY  
E-54228  
REGISTERED PROFESSIONAL ENGINEER  
4/2/2020

**B|A**  
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ARCHITECTS  
INCORPORATED

PLOT SCALE  
1/8"=1'-0"  
0 4' 8' 12'  
FOR SHEET SIZE 30"x42"

ISSUE DATE  
1 04.21.20 ISSUED FOR BIDS

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**EVERGREEN LOCAL SCHOOLS**  
**CAMPUS FIRE ALARM REPLACEMENT**  
METAMORA, OH 43540

FIRE ALARM  
LEGEND

PROJECT: B7-4569F

DRAWN BY: TLD

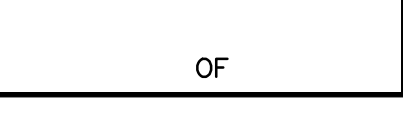
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SHEET

**EF001**

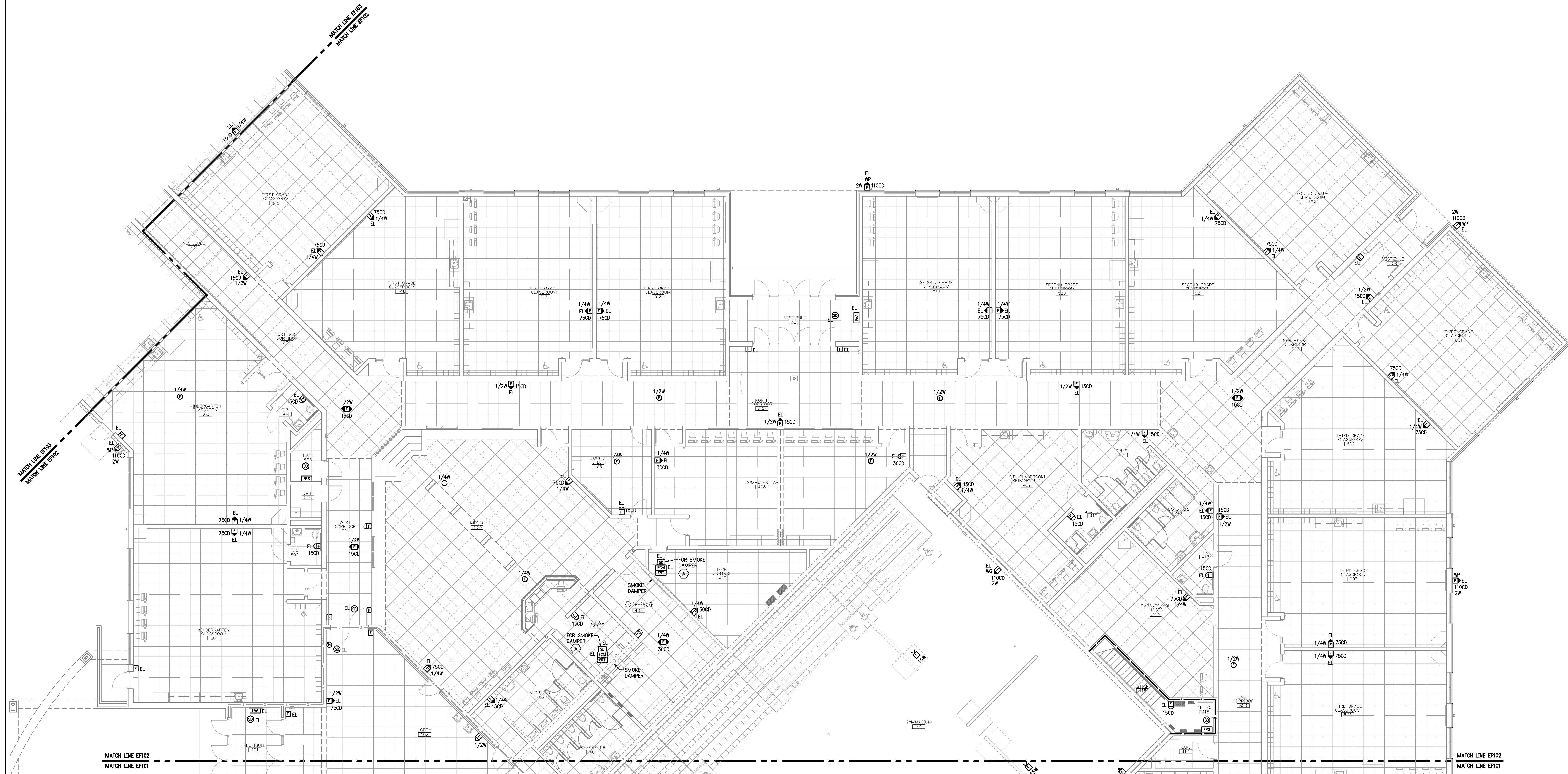
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OF



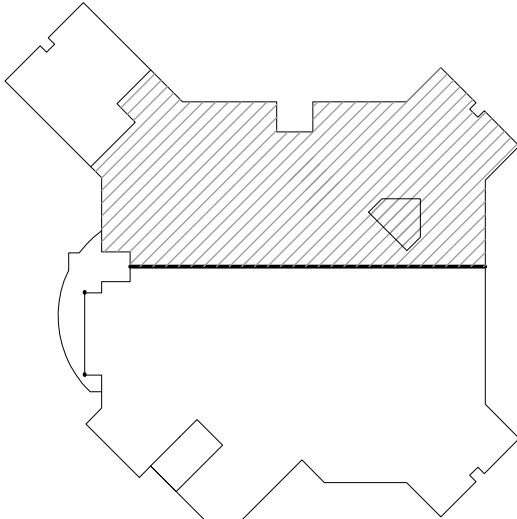


ELEMENTARY SCHOOL - NORTH  
PARTIAL FIRST FLOOR PLAN - FIRE ALARM  
SCALE: 1/8"=1'-0"

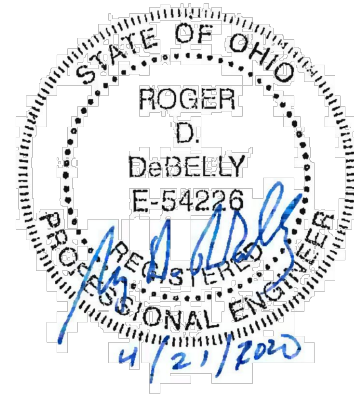


PLAN NOTES:

- A. WHERE A DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE INSTALLED IN THE DUCT WITHIN 5 FEET OF THE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND THE DAMPER. THE DETECTOR SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY ANTICIPATED AT THE POINT WHERE IT IS INSTALLED.



KEY PLAN  
SCALE: NONE



PLOT SCALE  
1/8"=1'-0"  
0 4 8 12'  
FOR SHEET SIZE 30"x42"

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EVERGREEN LOCAL SCHOOLS  
CAMPUS FIRE ALARM REPLACEMENT  
EVERGREEN ELEMENTARY SCHOOL  
14844 COUNTY ROAD 6, METAMORA, OH 43540

PARTIAL FIRST FLOOR PLAN  
FIRE ALARM

PROJECT: B7-4569F

DRAWN BY: TLD

CHECKED BY: DTK

SHEET

EF102





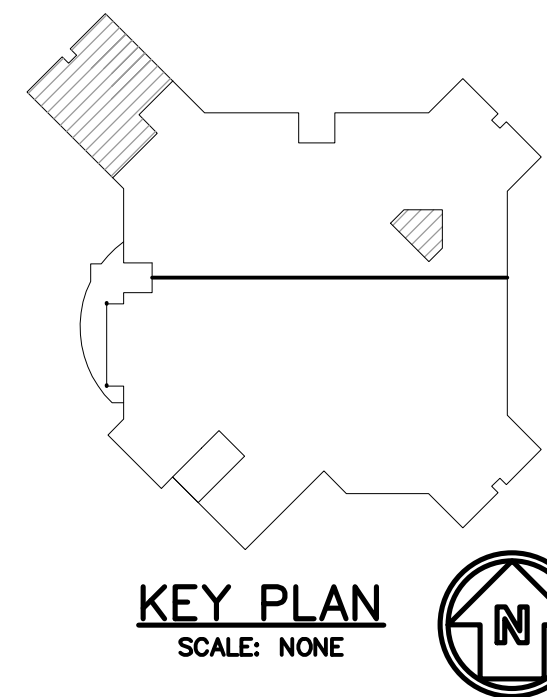
ELEMENTARY SCHOOL - NORTHWEST  
PARTIAL FIRST FLOOR PLAN - FIRE ALARM  
SCALE: 1/8"=1'-0"



- PLAN NOTES:
- A. TO PROPERLY LOCATE AND INSTALL THE CARBON MONOXIDE DUCT DETECTOR CONSIDER THE FOLLOWING CRITERIA:
- UNIFORM NON-TURBULENT (LAMINAR) AIRFLOW BETWEEN 100 TO 4000 FT/MIN.
  - THE PRESSURE DIFFERENTIAL BETWEEN THE SAMPLING AND EXHAUST TUBES MUST BE BETWEEN 0.01 AND 1.2 INCHES OF WATER.
  - ON SUPPLY SIDE DUCT THE DETECTOR MUST BE INSTALLED AFTER THE HEAT EXCHANGER AND BEFORE ANY DUCT BRANCHES.
  - THE DETECTOR CAN BE MOUNTED AFTER FRESH AIR INTAKES ON THE RETURN DUCT TO MONITOR POSSIBLE CO CONTAMINATION FROM OUTSIDE SOURCES.
  - THE DETECTOR MUST BE INSTALLED IN AN AREA THAT IS ACCESSIBLE FOR FUTURE TESTING AND MAINTENANCE.



ELEMENTARY SCHOOL  
MEZZANINE FLOOR PLAN - FIRE ALARM  
SCALE: 1/8"=1'-0"



EVERGREEN LOCAL SCHOOLS  
CAMPUS FIRE ALARM REPLACEMENT  
EVERGREEN ELEMENTARY SCHOOL

14844 COUNTY ROAD 6, METAMORA, OH 43540

PARTIAL FIRST  
AND MEZZANINE  
FLOOR PLAN  
FIRE ALARM

PROJECT: B7-4569F

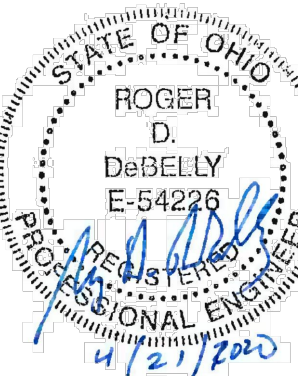
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SHEET

EF103

OF



PLOT SCALE  
1/8"=1'-0"  
0 4 8 12'  
FOR SHEET SIZE 30"x42"

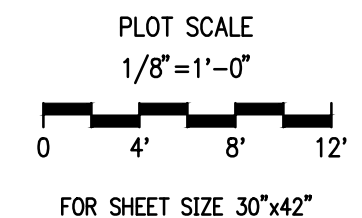
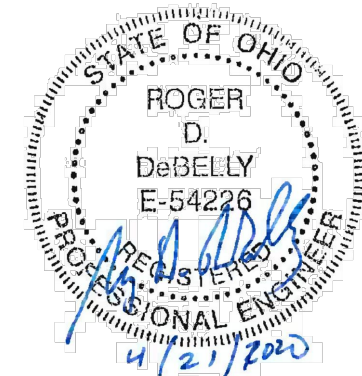
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  - THE DETECTOR MUST BE INSTALLED IN AN AREA THAT IS ACCESSIBLE FOR FUTURE TESTING AND MAINTENANCE.
- B. IF EXISTING TORNADO NOTIFICATION PANEL IS INTERCONNECTED WITH EXISTING FIRE ALARM SYSTEM, MAINTAIN CONNECTION WITH NEW FIRE ALARM SYSTEM AS REQUIRED.



FOR SHEET SIZE 30"x42"

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EVERGREEN LOCAL SCHOOLS  
CAMPUS FIRE ALARM REPLACEMENT  
EVERGREEN MIDDLE/HIGH SCHOOL  
14544 COUNTY ROAD 6, METAMORA, OH 43540

PARTIAL FIRST  
FLOOR PLAN  
FIRE ALARM

PROJECT: B7-4569F

DRAWN BY: TLD

CHECKED BY: DTK

SHEET

EF111

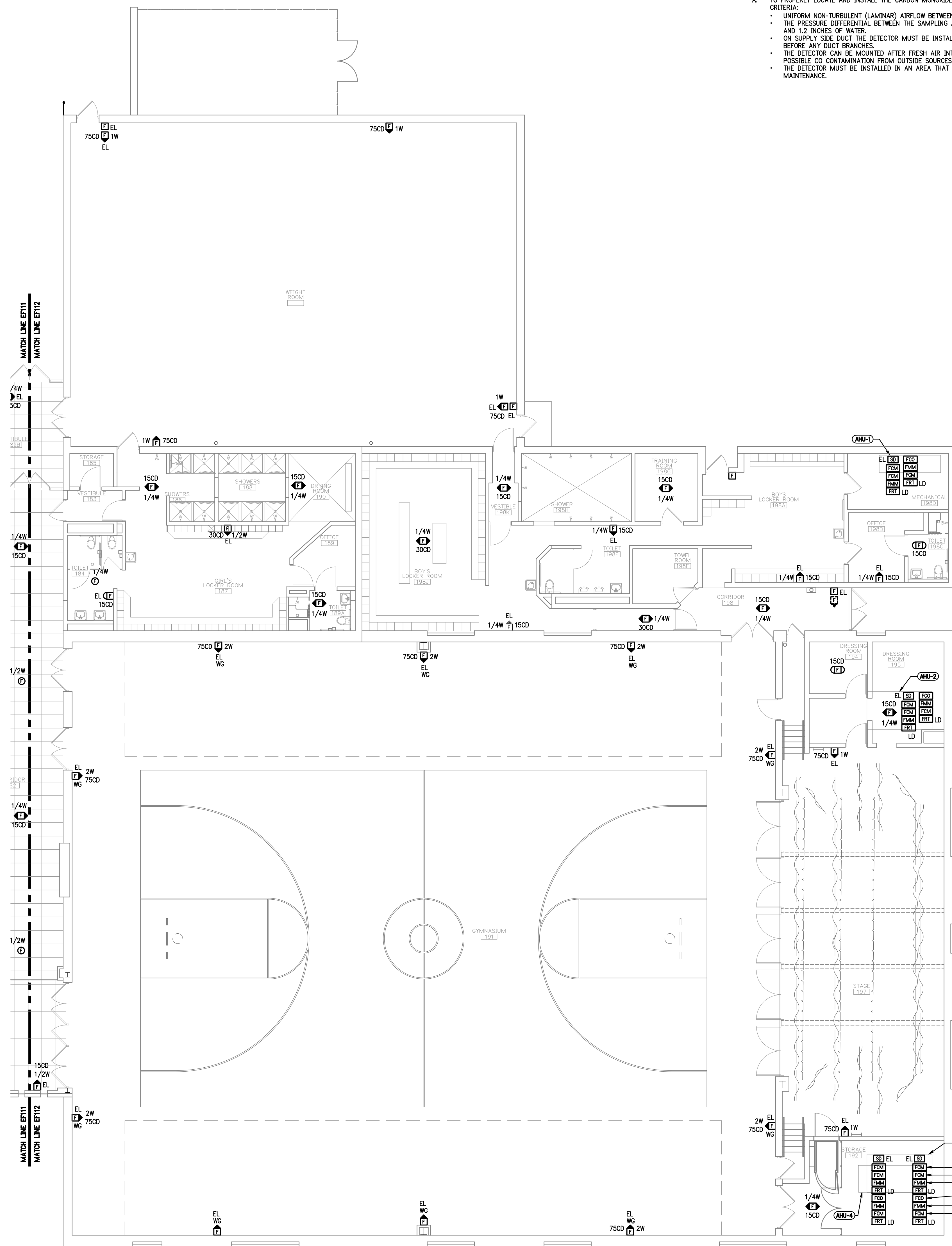
MIDDLE SCHOOL - NORTH  
PARTIAL FIRST FLOOR PLAN - FIRE ALARM  
SCALE: 1/8"=1'-0"



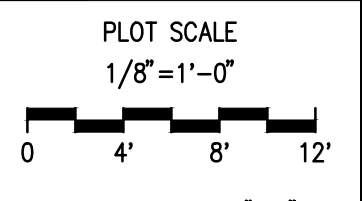
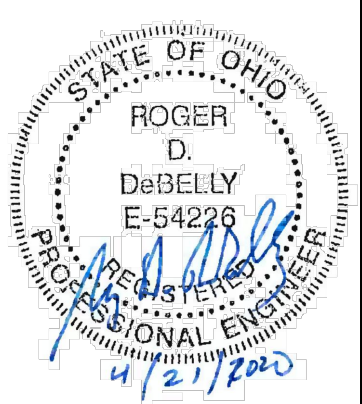
KEY PLAN  
SCALE: NONE







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  - THE DETECTOR MUST BE INSTALLED IN AN AREA THAT IS ACCESSIBLE FOR FUTURE TESTING AND MAINTENANCE.



FOR SHEET SIZE 30"x42"

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**EVERGREEN LOCAL SCHOOLS  
CAMPUS FIRE ALARM REPLACEMENT  
EVERGREEN MIDDLE/HIGH SCHOOL**

14544 COUNTY ROAD 6, METAMORA, OH 43540

PARTIAL FIRST FLOOR PLAN  
FIRE ALARM

PROJECT: B7-4569F

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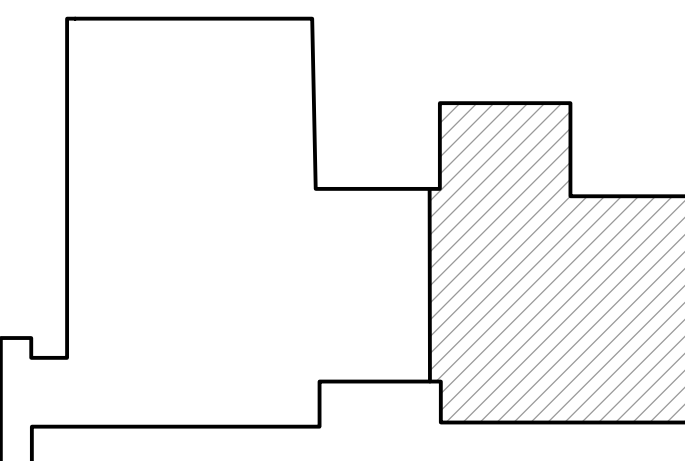
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SHEET

**EF112**

OF

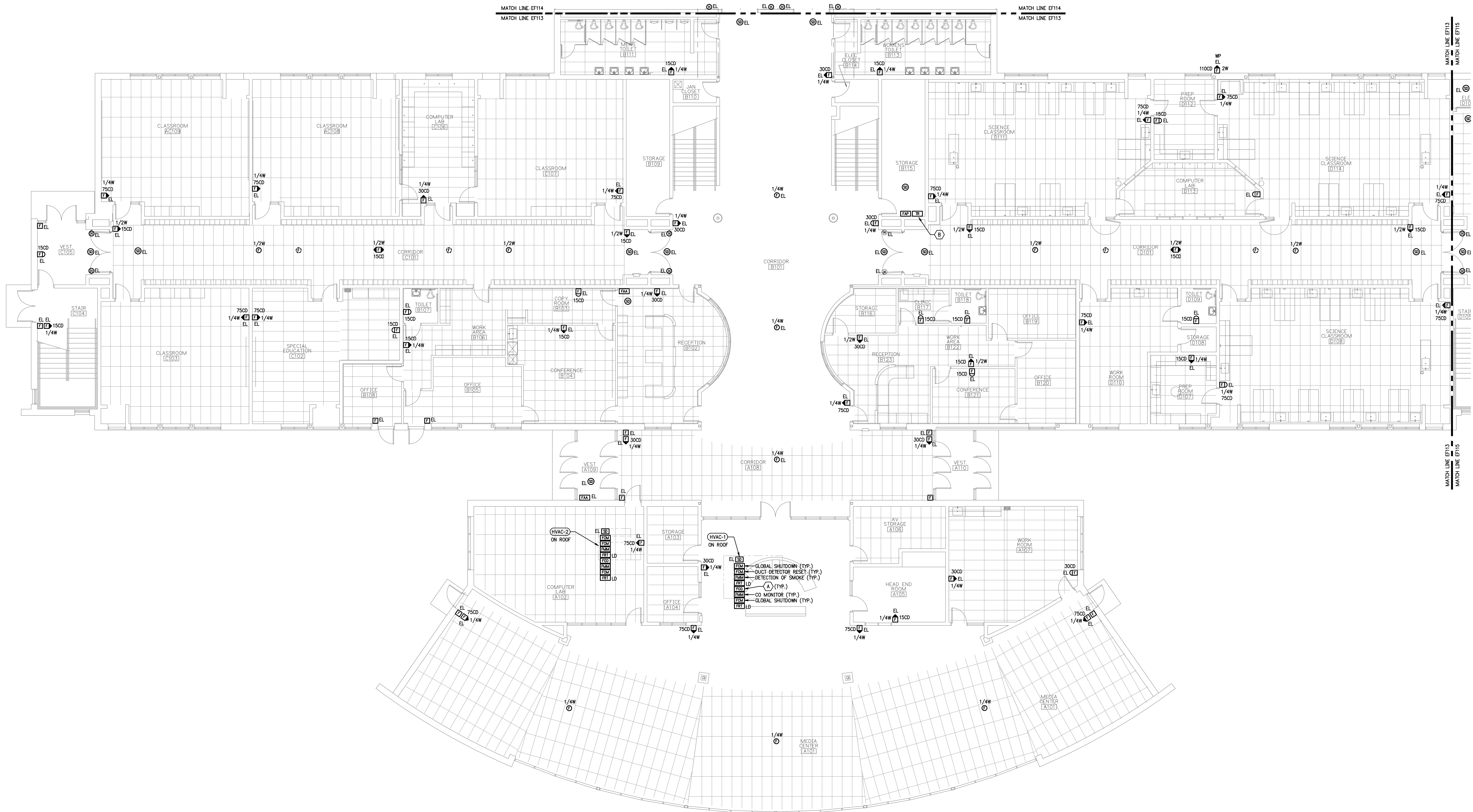
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PARTIAL FIRST FLOOR PLAN - FIRE ALARM**  
SCALE: 1/8"=1'-0"



**KEY PLAN**  
SCALE: NONE



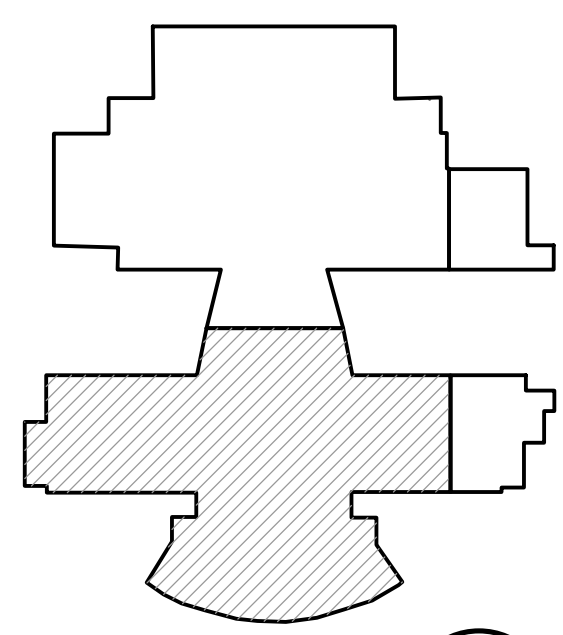




HIGH SCHOOL - WEST  
PARTIAL FIRST FLOOR PLAN - FIRE ALARM  
SCALE: 1/8"=1'-0"



- PLAN NOTES:
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STATE OF OHIO  
ROGER D. DeBELLY  
E-54228  
REGISTERED PROFESSIONAL ENGINEER  
4/2/2020

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PLOT SCALE  
1/8"=1'-0"  
0 4 8 12'  
FOR SHEET SIZE 30"x42"

ISSUE DATE  
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**EVERGREEN LOCAL SCHOOLS**  
**CAMPUS FIRE ALARM REPLACEMENT**  
**EVERGREEN MIDDLE/HIGH SCHOOL**  
14544 COUNTY ROAD 6, METAMORA, OH 43540

PARTIAL FIRST  
FLOOR PLAN  
FIRE ALARM

PROJECT: B7-4569F

DRAWN BY: TLD

CHECKED BY: DTK

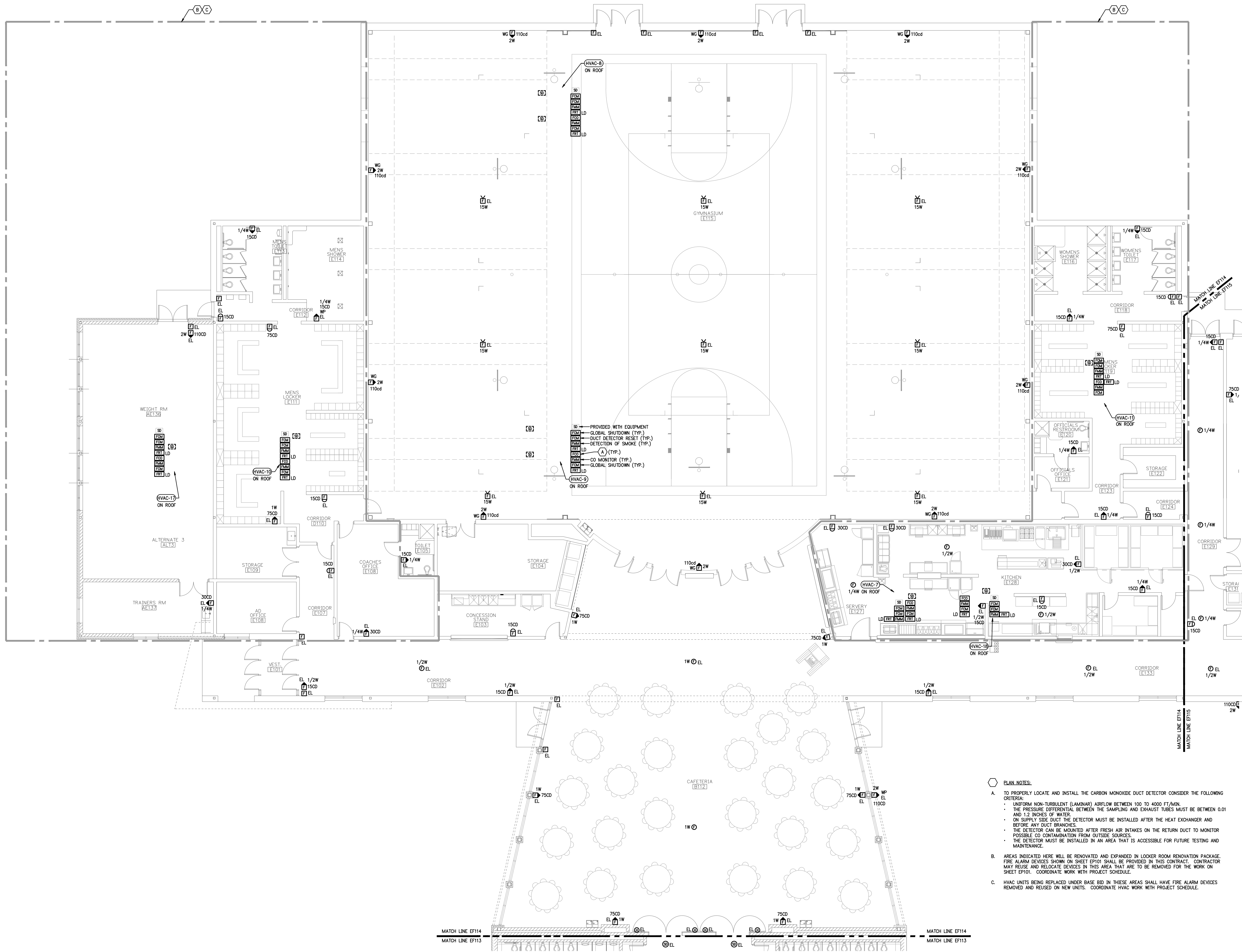
SHEET

**EF113**

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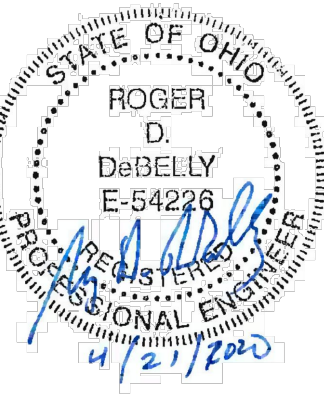
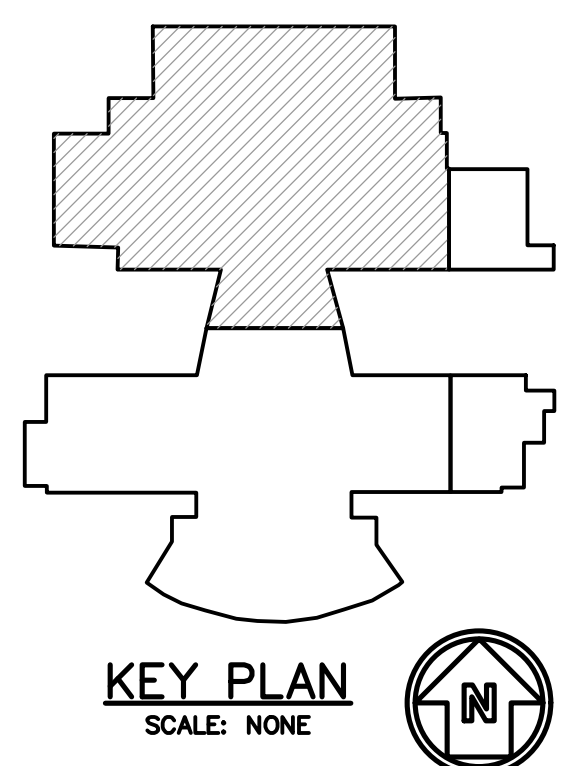
OF





HIGH SCHOOL - EAST  
PARTIAL FIRST FLOOR PLAN - FIRE ALARM  
SCALE: 1/8"=1'-0"

- PLAN NOTES:
- A. TO PROPERLY LOCATE AND INSTALL THE CARBON MONOXIDE DUCT DETECTOR CONSIDER THE FOLLOWING CRITERIA:
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  - THE DETECTOR MUST BE INSTALLED IN AN AREA THAT IS ACCESSIBLE FOR FUTURE TESTING AND MAINTENANCE
- B. AREAS INDICATED HERE WILL BE RENOVATED AND EXPANDED IN LOCKER ROOM RENOVATION PACKAGE. FIRE ALARM DEVICES SHOWN ON SHEET EP101 SHALL BE PROVIDED IN THIS CONTRACT. CONTRACTOR MAY REUSE AND RELOCATE DEVICES IN THIS AREA THAT ARE TO BE REMOVED FOR THE WORK ON SHEET EP101. COORDINATE WORK WITH PROJECT SCHEDULE.
- C. HVAC UNITS BEING REPLACED UNDER BASE BID IN THESE AREAS SHALL HAVE FIRE ALARM DEVICES REMOVED AND REUSED ON NEW UNITS. COORDINATE HVAC WORK WITH PROJECT SCHEDULE.



**B|A**  
BEILHARZ  
ARCHITECTS  
INCORPORATED

PLOT SCALE  
1/8"=1'-0"  
0 4 8 12'  
FOR SHEET SIZE 30"x42"

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**EVERGREEN LOCAL SCHOOLS  
CAMPUS FIRE ALARM REPLACEMENT  
EVERGREEN MIDDLE/HIGH SCHOOL**  
14544 COUNTY ROAD 6, METAMORA, OH 43540

PARTIAL FIRST  
FLOOR PLAN  
FIRE ALARM

PROJECT: B7-4569F

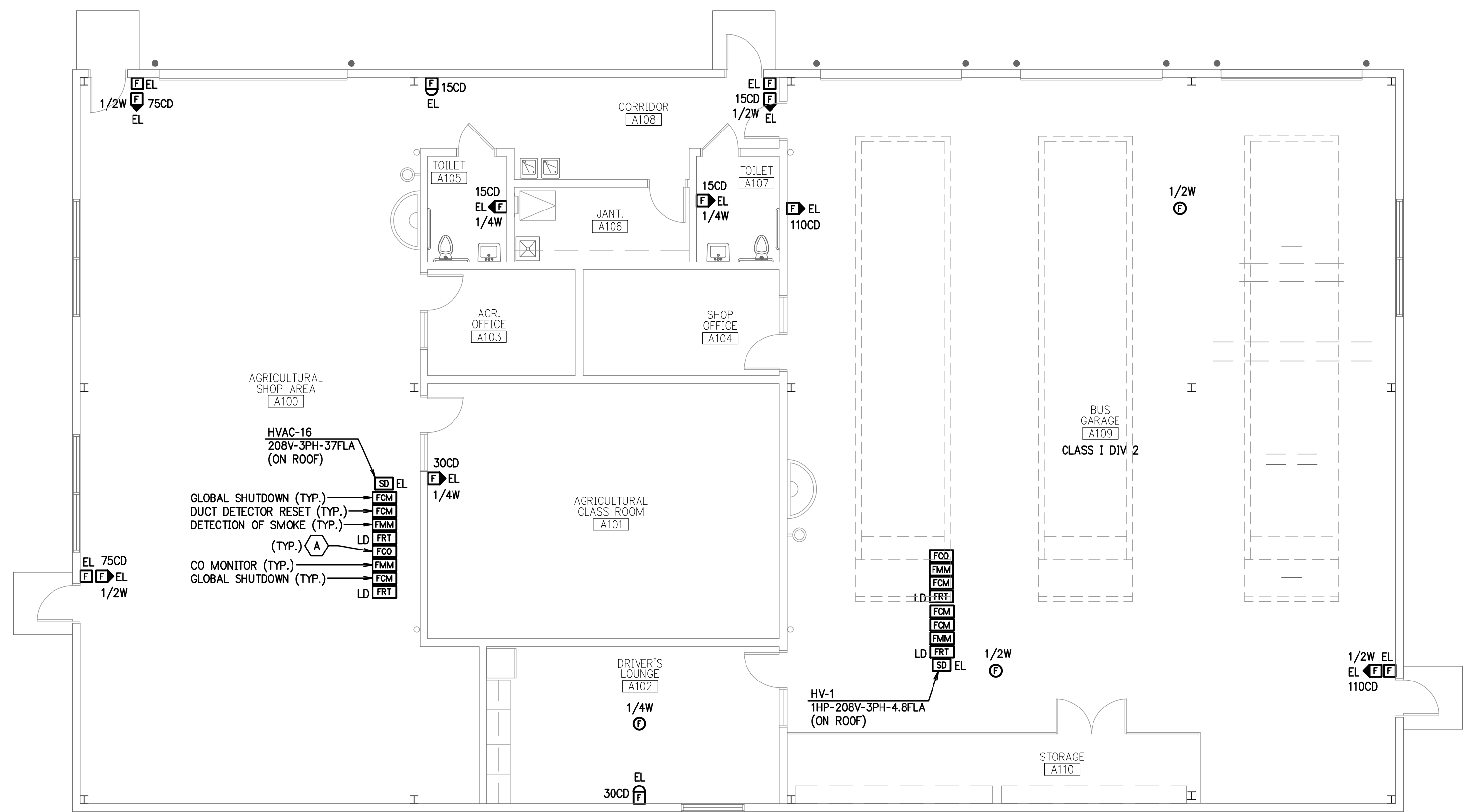
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CHECKED BY: DTK

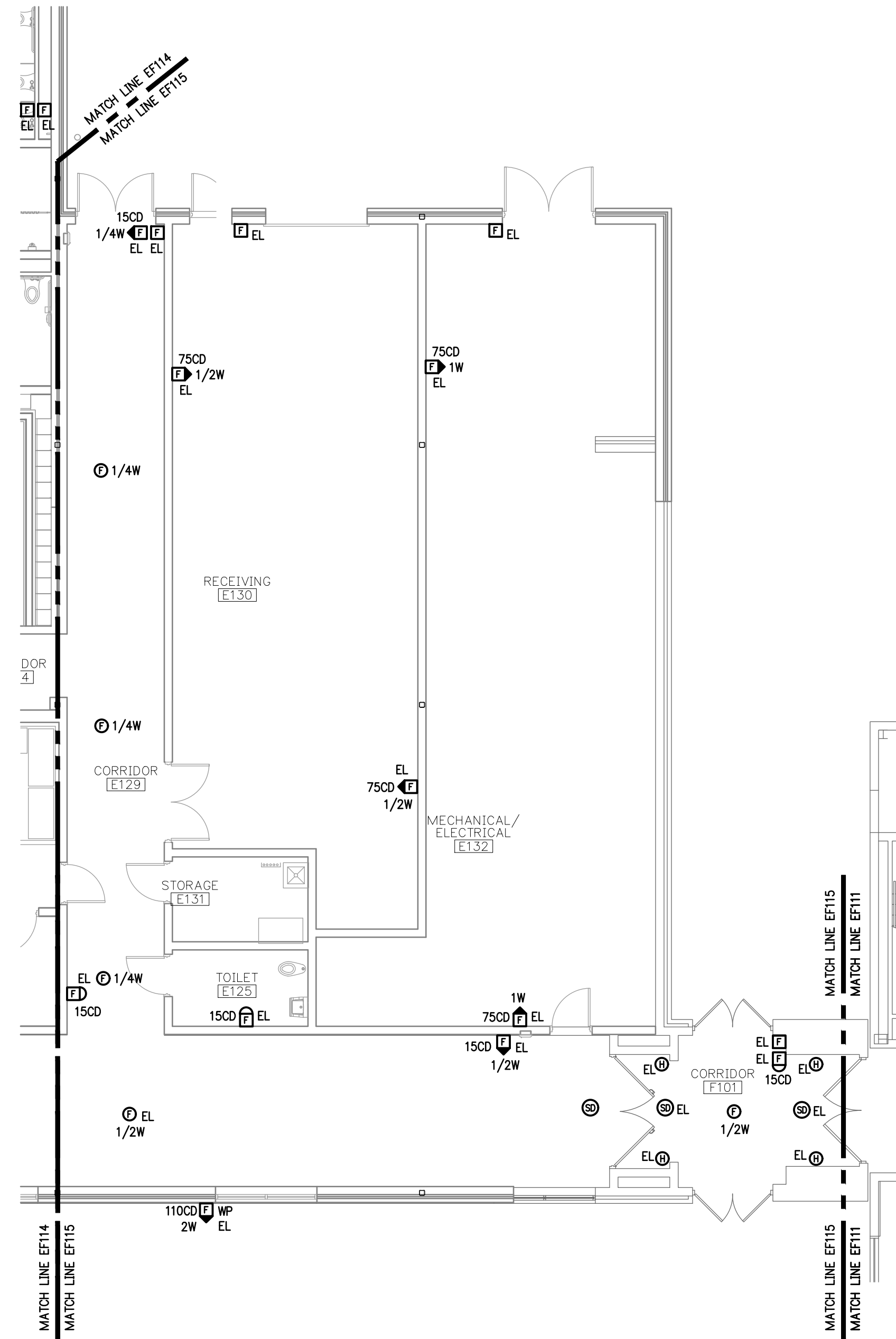
SHEET

**EF114**

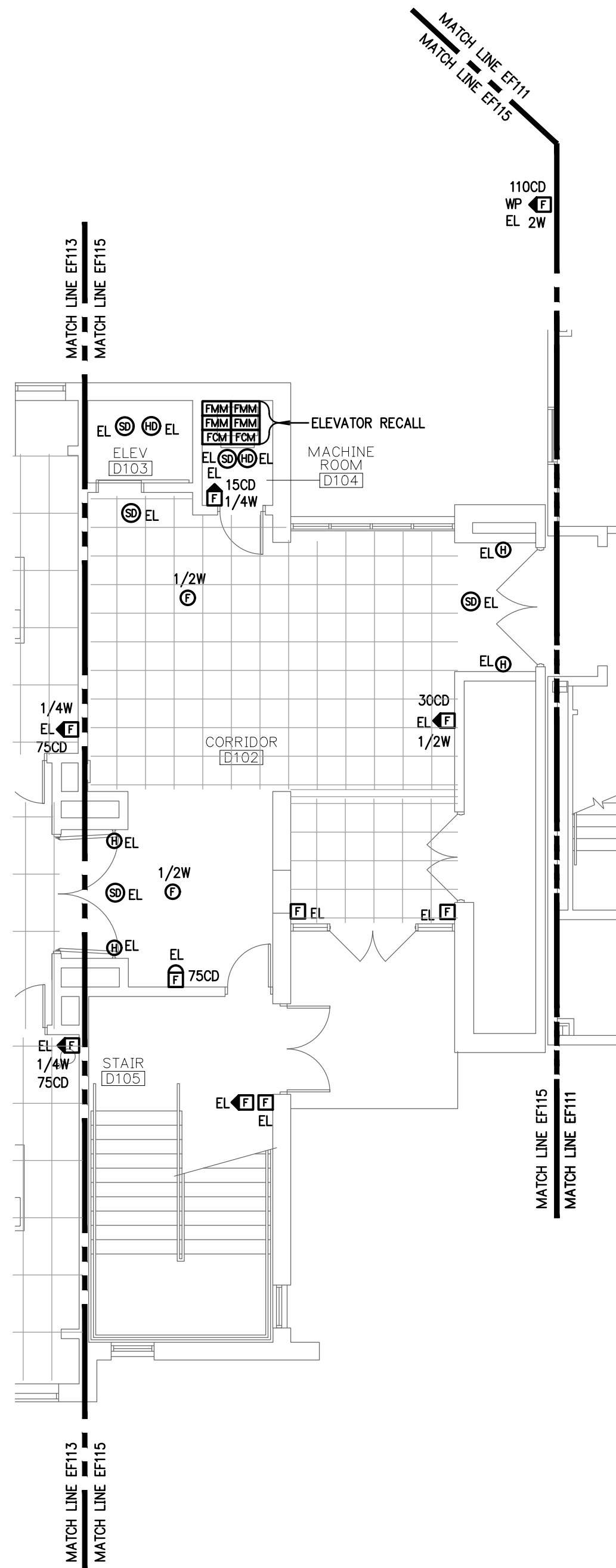




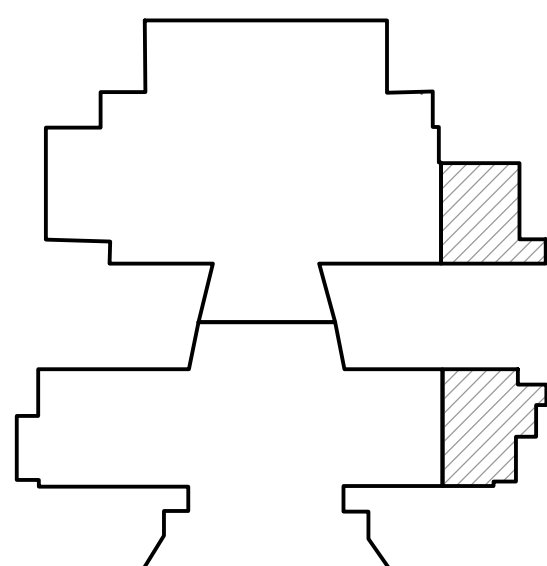
BUS GARAGE  
FIRST FLOOR PLAN - FIRE ALARM  
SCALE: 1/8"=1'-0"



HIGH SCHOOL - SOUTHEAST  
PARTIAL FIRST FLOOR PLAN - FIRE ALARM  
SCALE: 1/8"=1'-0"



HIGH SCHOOL - SOUTHWEST  
PARTIAL FIRST FLOOR PLAN - FIRE ALARM  
SCALE: 1/8"=1'-0"



KEY PLAN  
SCALE: NONE



- PLAN NOTES:
- A. TO PROPERLY LOCATE AND INSTALL THE CARBON MONOXIDE DUCT DETECTOR CONSIDER THE FOLLOWING CRITERIA:
- UNIFORM NON-TURBULENT (LAMINAR) AIRFLOW BETWEEN 100 TO 4000 FT/MIN.
  - THE PRESSURE DIFFERENTIAL BETWEEN THE SAMPLING AND EXHAUST TUBES MUST BE BETWEEN 0.01 AND 1.2 INCHES OF WATER.
  - ON SUPPLY SIDE DUCT THE DETECTOR MUST BE INSTALLED AFTER THE HEAT EXCHANGER AND BEFORE ANY DUCT BRANCHES.
  - THE DETECTOR CAN BE MOUNTED AFTER FRESH AIR INTAKES ON THE RETURN DUCT TO MONITOR POSSIBLE CO CONTAMINATION FROM OUTSIDE SOURCES.
  - THE DETECTOR MUST BE INSTALLED IN AN AREA THAT IS ACCESSIBLE FOR FUTURE TESTING AND MAINTENANCE.

EVERGREEN LOCAL SCHOOLS  
CAMPUS FIRE ALARM REPLACEMENT  
EVERGREEN MIDDLE/HIGH SCHOOL  
1-4544 COUNTY ROAD 6, METAMORA, OH 43540

PARTIAL FIRST  
FLOOR PLAN  
AND BUS GARAGE  
FIRE ALARM

PROJECT: B7-4569F

DRAWN BY: TLD

CHECKED BY: DTK

SHEET

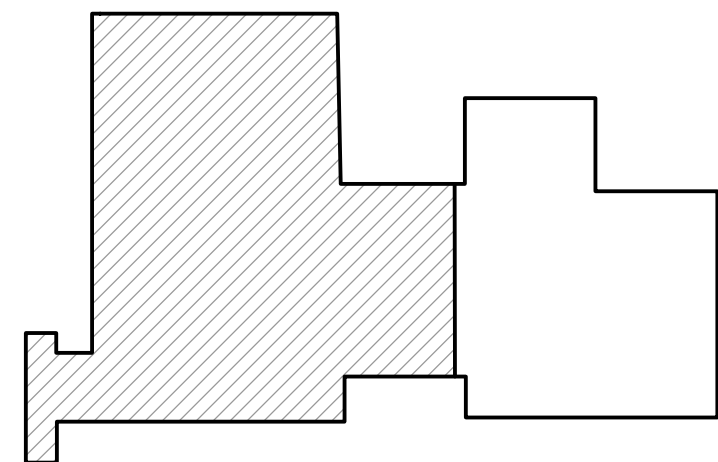
EF115

OF





MIDDLE SCHOOL  
SECOND FLOOR PLAN - FIRE ALARM  
SCALE: 1/8" = 1'-0"



KEY PLAN  
SCALE: NONE



SECOND  
FLOOR PLAN  
FIRE ALARM

PROJECT: B7-4569F

DRAWN BY: TLD

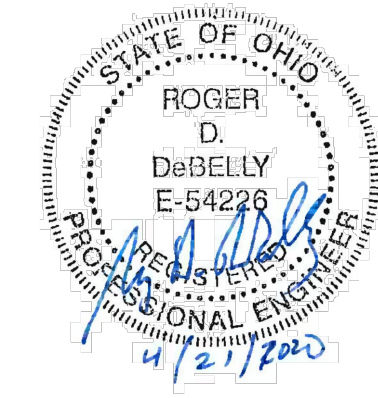
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SHEET

EF121

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

FOR SHEET SIZE 30"x42"

ISSUE DATE

1 04.21.20 ISSUED FOR BIDS

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EVERGREEN LOCAL SCHOOLS  
CAMPUS FIRE ALARM REPLACEMENT  
EVERGREEN MIDDLE/HIGH SCHOOL  
14544 COUNTY ROAD 6, METAMORA, OH 43540







