```
MINIMUM MECHANICAL VENTILATION
PER IBC-M 403 MECHANICAL VENTILATION:
      VBZ = (RP X PZ X AZ) + (RA X AZ)
         VBZ - MINIMUM REQUIRED VENTILATION AIR (CFM)
         RP - PEOPLE OUTDOOR AIR RATE (CFM/PERSON)
         PZ - ZONE POPULATION (PEOPLE/1000 SF)
         RA - AREA OUTDOOR AIR RATE (CFM/SF)
         AZ – ZONE FLOOR AREA (SF)
HOLDING CELL 001:
          RP = 5 CFM/PERSON
         PZ = 25 PEOPLE/1000 SF
         AZ = 130 SF
         RA = 0.06 CFM/SF
 (5 \text{ CFM/P } \times 25 \text{ P/}1000 \text{ SF } \times 130 \text{ SF}) + (0.06 \text{ CFM/SF } \times 130 \text{ SF}) = 24 \text{ CFM}
 EXHAUST REQUIRED = 1 CFM/SF X 130 SF = 130 CFM
 VENTILATION PROVIDED = 120 CFM
HOLDING CELL 002:
          RP = 5 CFM/PERSON
         PZ = 25 PEOPLE/1000 SF
         AZ = 74 SF
         RA = 0.06 CFM/SF
 (5 \text{ CFM/P X } 25 \text{ P/1000 SF X } 74 \text{ SF}) + (0.06 \text{ CFM/SF X } 74 \text{ SF}) = 14 \text{ CFM}
 EXHAUST REQUIRED = 1 CFM/SF X 74 SF = 75 CFM
 VENTILATION PROVIDED = 70 CFM
HOLDING CELL 003:
          RP = 5 CFM/PERSON
         PZ = 25 PEOPLE/1000 SF
         AZ = 118 SF
         RA = 0.06 CFM/SF
 (5 \text{ CFM/P X } 25 \text{ P/1000 SF X } 118 \text{ SF}) + (0.06 \text{ CFM/SF X } 118 \text{ SF}) = 22 \text{ CFM}
 EXHAUST REQUIRED = 1 CFM/SF X 118 SF = 118 CFM
 VENTILATION PROVIDED = 120 CFM
CORRIDOR 005:
          RP = 0 CFM/PERSON
         PZ = 0 PEOPLE/1000 SF
         AZ = 218 SF
         RA = 0.06 CFM/SF
 (0 \text{ CFM/P } \times 0 \text{ P/1000 SF } \times 218 \text{ SF}) + (0.06 \text{ CFM/SF } \times 218 \text{ SF}) = 13 \text{ CFM}
 EXHAUST REQUIRED = 0
 VENTILATION PROVIDED = 15 CFM
EXHIBIT 103:
          RP = 7.5 CFM/PERSON
         PZ = 40 PEOPLE/1000 SF
         AZ = 650 SF
         RA = 0.06 CFM/SF
 (7.5 \text{ CFM/P X } 40 \text{ P/} 1000 \text{ SF X } 650 \text{ SF}) + (0.06 \text{ CFM/SF X } 650 \text{ SF}) = 234 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 235 CFM
EXHIBIT 104:
         RP = 7.5 CFM/PERSON
         PZ = 40 PEOPLE/1000 SF
         AZ = 650 SF
         RA = 0.06 CFM/SF
 (7.5 \text{ CFM/P X } 40 \text{ P}/1000 \text{ SF X } 650 \text{ SF}) + (0.06 \text{ CFM/SF X } 650 \text{ SF}) = 234 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 235 CFM
EXHIBIT 105:
          RP = 7.5 CFM/PERSON
         PZ = 40 PEOPLE/1000 SF
```

AZ = 560 SF

EXHAUST REQUIRED = 0 CFM

RA = 0.06 CFM/SF

VENTILATION PROVIDED = 205 CFM

(7.5 CFM/P X 40 P/ 1000 SF X 560 SF) + (0.06 CFM/SF X 560 SF) = 202 CFM

```
EXHIBIT 106:
          RP = 7.5 CFM/PERSON
          PZ = 40 PEOPLE/1000 SF
          AZ = 560 SF
          RA = 0.06 CFM/SF
 (7.5 \text{ CFM/P X } 40 \text{ P/} 1000 \text{ SF X } 560 \text{ SF}) + (0.06 \text{ CFM/SF X } 560 \text{ SF}) = 202 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 205 CFM
<u>OFFICE 108:</u>
          RP = 5 CFM/PERSON
          PZ = 5 PEOPLE/1000 SF
          AZ = 100 SF
          RA = 0.06 CFM/SF
 (5 \text{ CFM/P } \times 5 \text{ P/1000 SF } \times 100 \text{ SF}) + (0.06 \text{ CFM/SF } \times 100 \text{ SF}) = 9 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 9 CFM
OFFICE 109:
           RP = 5 CFM/PERSON
          PZ = 5 PEOPLE/1000 SF
          AZ = 91 SF
          RA = 0.06 CFM/SF
 (5 \text{ CFM/P } \times 5 \text{ P/1000 SF } \times 91 \text{ SF}) + (0.06 \text{ CFM/SF } \times 91 \text{ SF}) = 8 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 8 CFM
RECEPTION 110:
          RP = 5 CFM/PERSON
          PZ = 30 PEOPLE/1000 SF
          AZ = 150 SF
          RA = 0.06 CFM/SF
 (5 \text{ CFM/P X } 30 \text{ P/1000 SF X } 150 \text{ SF}) + (0.06 \text{ CFM/SF X } 150 \text{ SF}) = 32 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 32 CFM
ENTRY 111:
           RP = 5 CFM/PERSON
          PZ = 10 PEOPLE/1000 SF
           AZ = 836 SF
          RA = 0.06 CFM/SF
 (5 \text{ CFM/P X 5 P/1000 SF X 836 SF}) + (0.06 \text{ CFM/SF X 836 SF}) = 71 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 71 CFM
SECURITY 112:
          RP = 5 CFM/PERSON
          PZ = 5 PEOPLE/1000 SF
          AZ = 193 SF
          RA = 0.06 CFM/SF
 (5 \text{ CFM/P } \times 5 \text{ P/1000 SF } \times 193 \text{ SF}) + (0.06 \text{ CFM/SF } \times 193 \text{ SF}) = 17 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 17 CFM
<u>OFFICE 113:</u>
          RP = 5 CFM/PERSON
          PZ = 5 PEOPLE/1000 SF
          AZ = 205 SF
          RA = 0.06 CFM/SF
 (5 \text{ CFM/P X 5 P/1000 SF X 205 SF}) + (0.06 \text{ CFM/SF X 205 SF}) = 17 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 17 CFM
KITCHENETTE 114:
          RP = 5 CFM/PERSON
          PZ = 5 PEOPLE/1000 SF
          AZ = 221 SF
          RA = 0.06 CFM/SF
 (5 \text{ CFM/P } \times 5 \text{ P/1000 SF } \times 221 \text{ SF}) + (0.06 \text{ CFM/SF } \times 221 \text{ SF}) = 19 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 20 CFM
```

```
<u>OFFICE 115:</u>
                                                                                           EXHIBIT 209:
           RP = 5 CFM/PERSON
          PZ = 5 PEOPLE/1000 SF
           AZ = 106 SF
           RA = 0.06 CFM/SF
 (5 \text{ CFM/P } \times 5 \text{ P/1000 SF } \times 106 \text{ SF}) + (0.06 \text{ CFM/SF } \times 106 \text{ SF}) = 9 \text{ CFM}
                                                                                            (7.5 \text{ CFM/P X } 40 \text{ P}/1000 \text{ SF X } 560 \text{ SF}) + (0.06 \text{ CFM/SF X } 560 \text{ SF}) = 202 \text{ CFM}
                                                                                             EXHAUST REQUIRED = 0 CFM
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 9 CFM
                                                                                             VENTILATION PROVIDED = 205 CFM
JURY ROOM 201:
                                                                                           WEST STAIR:
          RP = 5 CFM/PERSON
          PZ = 50 PEOPLE/1000 SF
          AZ = 337 SF
          RA = 0.06 CFM/SF
 (5 \text{ CFM/P X } 50 \text{ P/} 1000 \text{ SF X } 337 \text{ SF}) + (0.06 \text{ CFM/SF X } 337 \text{ SF}) = 105 \text{ CFM}
                                                                                            (0 \text{ CFM/P } \times 0 \text{ P/1000 } \text{SF } \times 780 \text{ SF}) + (0.06 \text{ CFM/SF } \times 780 \text{ SF}) = 47 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
                                                                                             EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 105 CFM
                                                                                             VENTILATION PROVIDED = 50 CFM
BALIF 203:
                                                                                           EAST STAIR:
           RP = 5 CFM/PERSON
          PZ = 5 PEOPLE/1000 SF
           AZ = 118 SF
           RA = 0.06 CFM/SF
 (5 \text{ CFM/P X 5 P/1000 SF X 118 SF})+(0.06 \text{ CFM/SF X 118 SF}) = 10 \text{ CFM}
                                                                                            (0 \text{ CFM/P X } 0 \text{ P/1000 SF X } 780 \text{ SF}) + (0.06 \text{ CFM/SF X } 780 \text{ SF}) = 47 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
                                                                                             EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 10 CFM
                                                                                             VENTILATION PROVIDED = 50 CFM
WAITING 204:
          RP = 5 CFM/PERSON
          PZ = 30 PEOPLE/1000 SF
          AZ = 100 SF
          RA = 0.06 CFM/SF
 (5 \text{ CFM/P X } 30 \text{ P}/1000 \text{ SF X } 100 \text{ SF}) + (0.06 \text{ CFM/SF X } 100 \text{ SF}) = 21 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 21 CFM
JUDICIAL ASST. 205:
           RP = 5 CFM/PERSON
          PZ = 5 PEOPLE/1000 SF
           AZ = 106 SF
           RA = 0.06 CFM/SF
 (5 \text{ CFM/P X 5 P/1000 SF X 106 SF}) + (0.06 \text{ CFM/SF X 106 SF}) = 9 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 9 CFM
JUDGES CHAMBER 206:
          RP = 5 CFM/PERSON
          PZ = 5 PEOPLE/1000 SF
          AZ = 189 SF
          RA = 0.06 CFM/SF
 (5 \text{ CFM/P X 5 P/1000 SF X 189 SF})+(0.06 \text{ CFM/SF X 189 SF}) = 16 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 16 CFM
MEETING/COURT 207:
          RP = 7.5 CFM/PERSON
          PZ = 100 PEOPLE/1000 SF
          AZ = 3125 SF
          RA = 0.06 CFM/SF
 (7.55 \text{ CFM/P X } 100 \text{ P}/1000 \text{ SF X } 3125 \text{ SF}) + (0.06 \text{ CFM/SF X } 3125 \text{ SF}) = 2525 \text{ CFM}
 EXHAUST REQUIRED = 0 CFM
 VENTILATION PROVIDED = 2525 CFM
EXHIBIT 208:
```

RP = 7.5 CFM/PERSON

AZ = 560 SF

EXHAUST REQUIRED = 0 CFM

VENTILATION PROVIDED = 205 CFM

RA = 0.06 CFM/SF

PZ = 40 PEOPLE/1000 SF

(7.5 CFM/P X 40 P/1000 SF X 560 SF) + (0.06 CFM/SF X 560 SF) = 202 CFM

RP = 7.5 CFM/PERSON

AZ = 560 SF

RA = 0.06 CFM/SF

RP = 0 CFM/PERSON

RP = 0 CFM/PERSON

RA = 0.06 CFM/SF

AZ = 780 SF

PZ = 0 PEOPLE/1000 SF

AZ = 780 SF

RA = 0.06 CFM/SF

PZ = 0 PEOPLE/1000 SF

PZ = 40 PEOPLE/1000 SF

```
architects
```

ARCHITECTURE PLANNING INTERIORS GRAPHICS

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Roger E. Walsh, P.E.

|Florida Department of State **Division of Historical Resources** 

#### **HISTORIC JEFFERSON COUNTY HIGH SCHOOL** RESTORATION

MONTICELLO, FLORIDA

OWNER NAME: **Jefferson County Board of County Commissonioners** MONTICELLO, FLORIDA

REV	DATE	DESCRIPTION

PROJECT PHASE

100% CONSTRUCTION DOCUMENTS

DRAWN BY 01 AUGUST 2019 CHECKED BY

PROJECT NO 65000

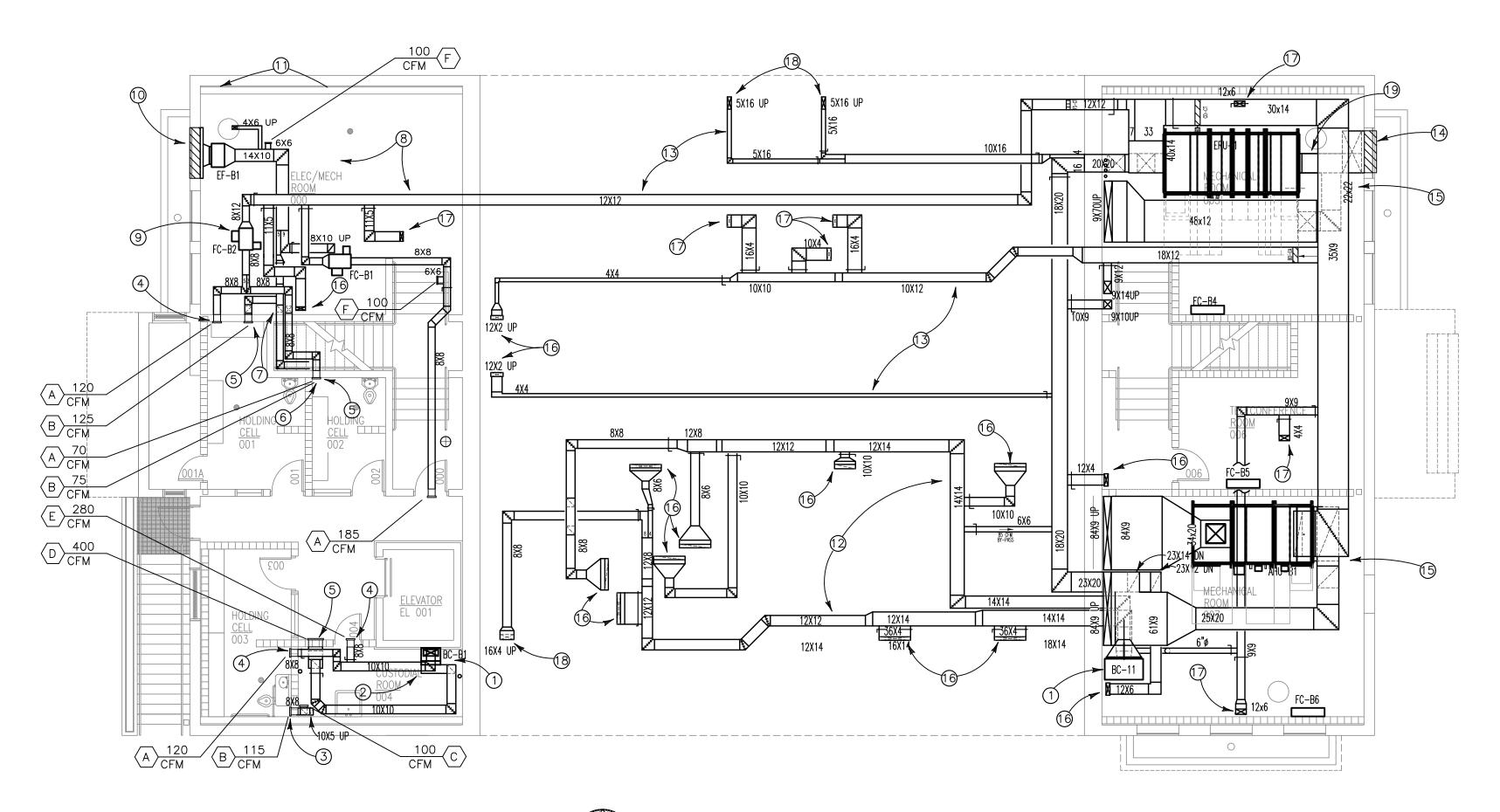
SHEET TITLE

**MECHANICAL VENTILATION AIR CALCULATIONS** 

SHEET NO M102

REV NO

REW





THIS SHEET ONLY

- 1) PROVIDE 6" CONCRETE HOUSE KEEPING PAD 6" LARGER THAN UNIT IN EACH DIRECTION. BULL NOSE ALL CORNERS. PROVIDE UNIT VIBRATION ISOLATION PAD EQUAL TO MASON INDUSTRIES TYPE "W" NEOPRENE FLATBACK WAFFLE PAD.
- (2) TRANSITION FROM UNIT CONNECTION TO 10X10 RETURN DUCT AND TURN UP HIGH AS POSSIBLE.
- 3) INSTALL EXHAUST GRILLE 3" ABOVE FLOOR. COORDINATE PLACEMENT OF SECURITY PLUMBING FIXTURE TO ENSURE ADEQUATE CLEARANCE IS PROVIDED FOR INSTALLATION OF EXHAUST GRILLE IN THIS LOCATION. TURN EXHAUST DUCT UP EXPOSED IN ROOM 004. PROVIDE MANUAL BALANCING DAMPER IN DUCT SERVING THIS GRILLE. PROVIDE INDICATED EXHAUST GRILLE HIGH IN ROOM 004. TRANSITION DUCT SIZE AND EXTEND CONCEALED IN WALL ABOVE BASEMENT LEVEL UP TO EXHAUST FAN EF-21 SHOWN ON SECOND FLOOR.
- (4) HOLD GRILLE TIGHT TO BOTTOM OF BOND BEAM.
- 5 INSTALL RETURN/EXHAUST GRILLE IN SECOND BLOCK COURSE ABOVE
- 6 HOLD GRILLE AS HIGH AS STRUCTURE WILL ALLOW.
- (7) TURN SUPPLY AND EXHAUST DUCT DOWN AS NECESSAY TO ROUTE BELOW STAIR CASE TO CELL WALL. COORDINATE LAYOUT WITH PLUMBING PIPING NEEDS.
- 8 HOLD ALL DUCTWORK IN ROOM 004 AS HIGH AS POSSIBLE BELOW
- (9) FAN COILS AND EXHAUST FANS IN ROOM 004 SHALL BE SUSPENDED FROM FLOOR JOISTS ABOVE USING ALL THREAD ROD.
- PROVIDE NOMINAL 55W X 36H LOUVER EQUAL TO RUSKIN MODEL ELF375DXD. FIELD VERIFY DIMENSION. ARCHITECT TO SELECT COLOR FROM FULL COLOR RANGE. PROVIDE PLENUM BACK ON LOUVER AND TRANSITION FROM FAN DISCHARGE TO PLENUM BACK.
- (1) TURN DUCT UP CONCEALED IN WALL ABOVE. TYPICAL.

- 12) DUCTS IN CRAWL SPACE. HOLD DUCTS AS HIGH AS POSSIBLE. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN DUCT SYSTEM AND EARTH. REMOVE SOIL IF NECESSARY.
- 13 DUCTS IN CRAWL SPACE. HOLD DUCTS BELOW PIPING. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN DUCT SYSTEM AND EARTH. REMOVE SOIL IF
- (4) PROVIDE NOMINAL 55W X 25H LOUVER EQUAL TO RUSKIN MODEL ELF63 50DMP. FIELD VERIFY DIMENSION. ARCHITECT TO SELECT COLOR FROM FULL COLOR RANGE. PROVIDE PLENUM BACK ON LOUVER AND TRANSITION FROM FAN DISCHARGE TO PLENUM BACK.
- (5) MODULAR AHU AND ERU MUST BE DISASSEMBLED TO GET THEM IN THE BASEMENT AND REASSEMBLED IN PLACE.
- (16) UP TO FLOOR REGISTER. TRANSITION DUCT TO FIT.
- (17) UP TO FAN COIL.
- (8) EXTEND DUCT UP IN WALL ABOVE TO SIDEWALL GRILLE.
- (19) OUTSIDE AIR DUCT CONNECTION TO UPPER DECK, EXHAUST AIR CONNECTION TO LOWER DECK.

#### **GENERAL NOTES**

1. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND DETAILS. THESE MECHANICAL DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO BE SCALED.

2. COORDINATE DUCT ROUTING AND EQUIPMENT LOCATIONS WITH PLUMBING, AND ELECTRICAL INSTALLATIONS AND WITH BUILDING STRUCTURAL MEMBERS. OFFSET DUCTS AND SHIFT EQUIPMENT AS REQUIRED TO AVOID CONFLICTS. CONFLICTING WORK NOT COORDINATED WILL BE REMOVED TO THE EXTENT NECESSARY TO ALLOW PROPER INSTALLATION OF ALL SYSTEMS.

3. COORDINATE LOCATIONS OF CEILING REGISTERS AND DIFFUSERS WITH LIGHTING LAYOUT AND WITH REFLECTED CEILING

4. DUCT SIZES INDICATED ARE CLEAR INSIDE DIMENSIONS REQUIRED. WHERE DUCT LINER OCCURS, INCREASE SHEET METAL DUCT SIZES AS REQUIRED TO ACCOMMODATE LINER.

5. REFER TO ELECTRICAL DRAWINGS FOR VOLTAGE AND PHASE REQUIREMENTS OF ALL EQUIPMENT.

6. SUPPORT ALL DUCTS, PIPING AND EQUIPMENT FROM PRIMARY BUILDING STRUCTURAL MEMBERS ONLY.

7. PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL EQUIPMENT.

8. ALL CONSTRUCTION SHALL COMPLY WITH THE FLORIDA FIRE PREVENTION CODE, FLORIDA BUILDING CODE-BUILDING, FLORIDA BUILDING CODE-PLUMBING, AND FLORIDA BUILDING CODE-MECHANICAL, ALL 6TH EDITION.

ARCHITECTURE PLANNING INTERIORS GRAPHICS

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Florida Department of State **Division of Historical Resources** 

#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL **RESTORATION**

MONTICELLO, FLORIDA

OWNER NAME: **Jefferson County Board of County Commissonioners** MONTICELLO, FLORIDA

REV DATE DESCRIPTION

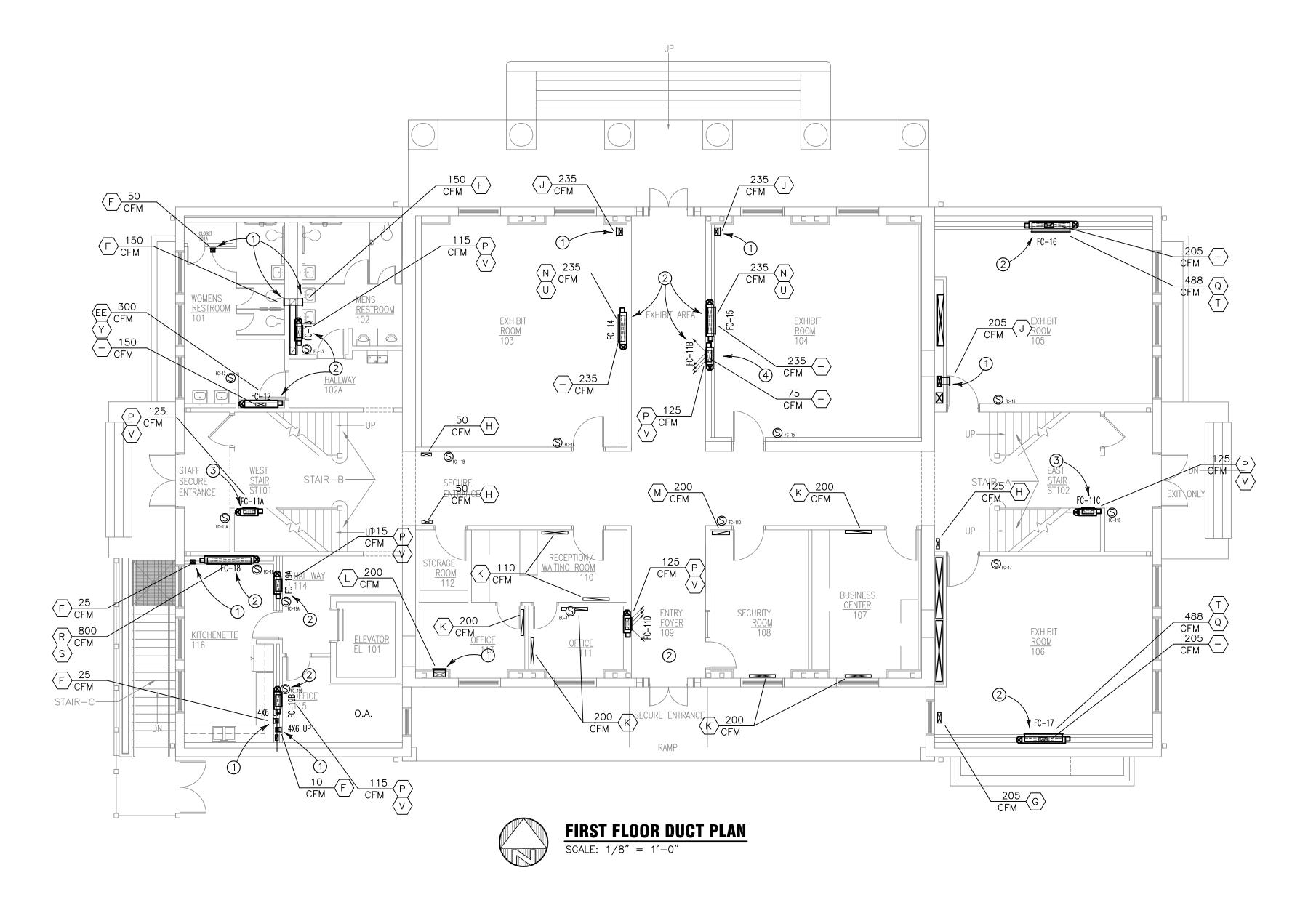
PROJECT PHASE 100% CONSTRUCTION DOCUMENTS

DRAWN BY REW 01 AUGUST 2019 PROJECT NO CHECKED BY REW 65000

SHEET TITLE

**BASEMENT FLOOR MECHANICAL PLAN** 

REV NO **M201** 



THIS SHEET ONLY

- 1 GRILLE 6" BELOW CEILING.
- 2 EXTEND DUCT FROM FAN COIL CONCEALED IN WALL TO SIDEWALL SUPPLY GRILLE 6" BELOW CEILING. PROVIDE FAN COIL RETURN GRILLE IN ACCESS PANEL ALIGNED WITH FAN COIL RETURN. PROVIDE INDICATED OUTSIDE AIR FLOW INTRODUCED THROUGH FLOOR TO UNIT RETURN.
- 3 EXTEND DUCT FROM FAN COIL CONCEALED BELOW STAIRS TO SIDEWALL SUPPLY GRILLE AS HIGH AS POSSIBLE. PROVIDE FAN COIL RETURN GRILLE IN ACCESS PANEL ALIGNED WITH FAN COIL RETURN. PROVIDE INDICATED OUTSIDE AIR FLOW INTRODUCED THROUGH FLOOR TO UNIT RETURN



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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Florida Department of State
Division of Historical Resources

#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA

OWNER NAME:
Jefferson County Board of
County Commissonioners

MONTICELL	.O, FLORIDA	
REV	DATE	DESCRIPTION

PROJECT PHASE

100% CONSTRUCTION DOCUMENTS

DATE

DATE
01 AUGUST 2019

PROJECT NO
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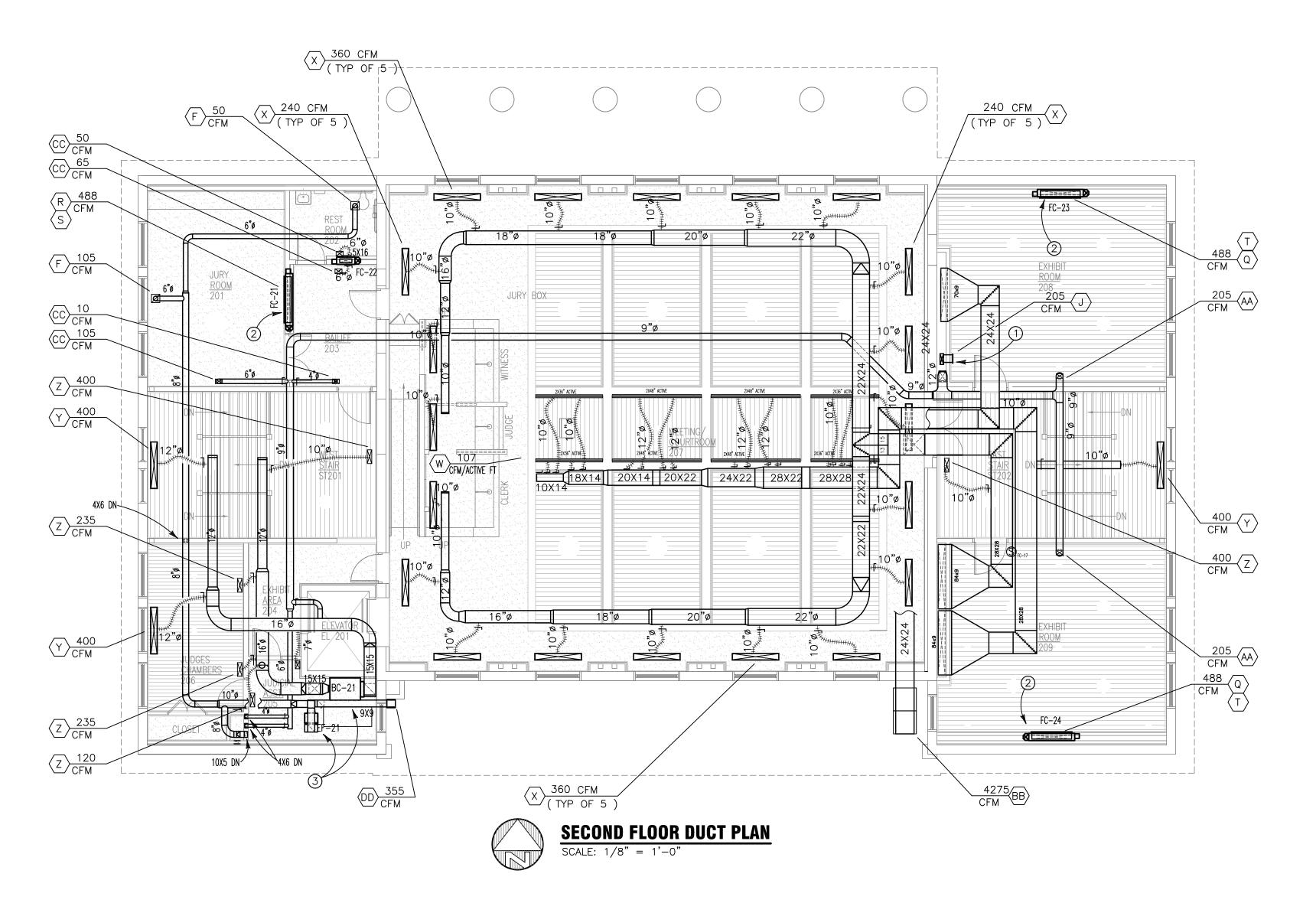
SHEET TITLE

FIRST FLOOR MECHANICAL PLAN

SHEET NO

REV NO

**M202** 



THIS SHEET ONLY

- ① GRILLE 6" BELOW CEILING.
- 2 EXTEND DUCT FROM FAN COIL CONCEALED IN WALL TO SIDEWALL SUPPLY GRILLE 6" BELOW CEILING. PROVIDE FAN COIL RETURN GRILLE IN ACCESS PANEL ALIGNED WITH FAN COIL RETURN.
- 3 UNIT SUSPENDED FROM STRUCTURE ABOVE IN EQUIPMENT MEZZANINE WITHIN CONDITIONED ENVELOPE ABOVE CEILING. REFER TO ARCHITECTURAL PLANS.



ARCHITECTURE
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Division of Historical Resources

#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA

OWNER NAME:

Jefferson County Board of

County Commissonioners

MONTICELLO, FLORIDA

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DATE

DATE
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PROJECT NO
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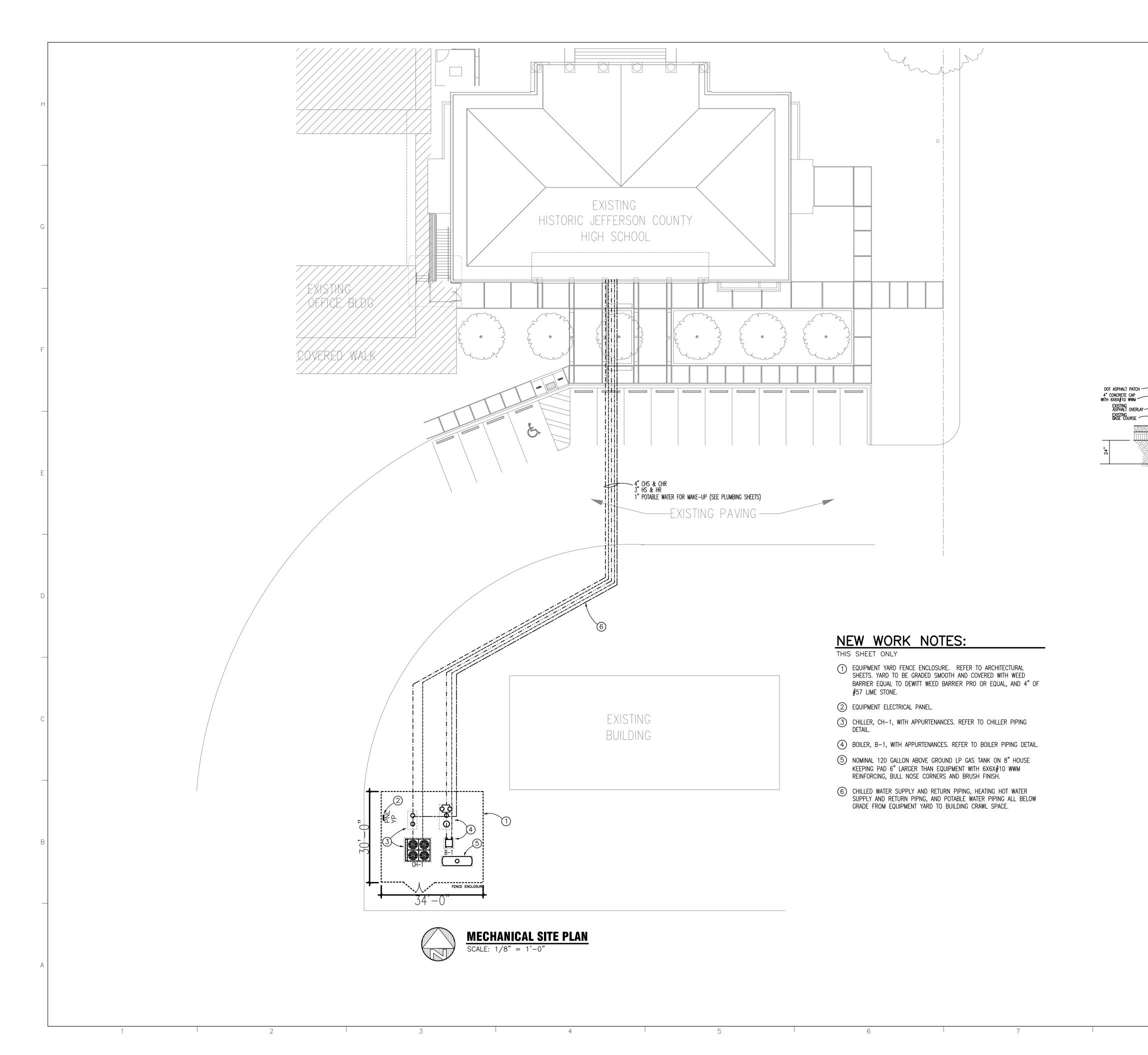
**M203** 

SHEET TITLE

SECOND FLOOR MECHANICAL PLAN

SHEET NO

REV NO





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## HISTORIC JEFFERSON COUNTY HIGH SCHOOL **RESTORATION**

MONTICELLO, FLORIDA

PIPE TRENCH DETAIL AT ROADWAY CROSSING SCALE: NONE

OWNER NAME: Jefferson County Board of County Commissonioners

MONTICELLO, FLORIDA

	,	
REV	DATE	DESCRIPTION

PROJECT PHASE

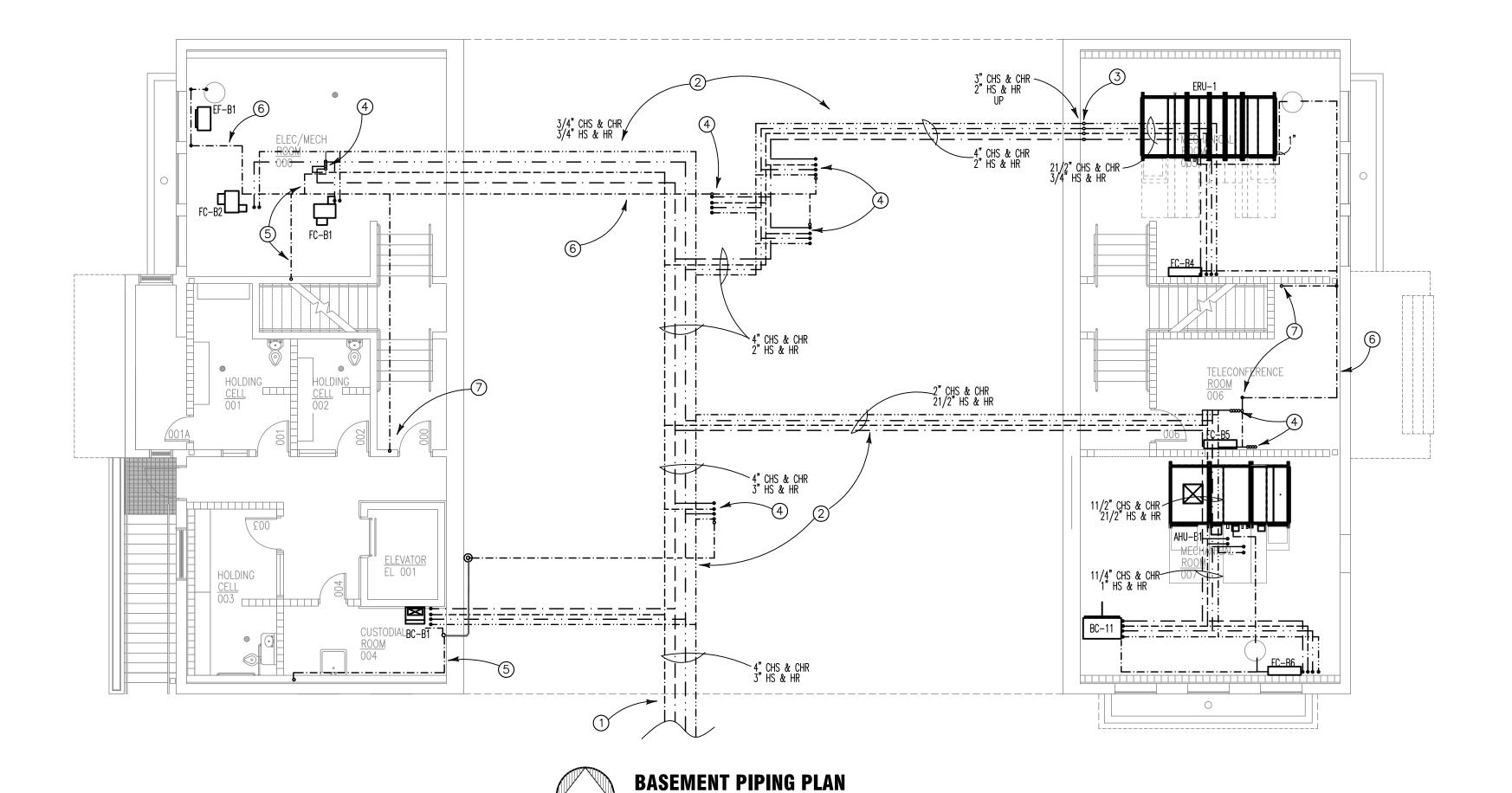
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DRAWN BY REW 01 AUGUST 2019 PROJECT NO CHECKED BY REW

SHEET TITLE

**MECHANICAL SITE PLAN** 

**M204** 



THIS SHEET ONLY

- (1) CHILLED AND HOT WATER SUPPLY AND RETURN PIPING BELOW GRADE FROM EQUIPMENT YARD. SEE SITE PLAN FOR CONTINUATION.
- 2 PIPING EXPOSED IN CRAWL SPACE. MAINTAIN MINIMUM 6" SEPARATION FROM EARTH OR INSULATE AS BURIED PIPE.
- (3) TURN BRANCH UP TO ATTIC.
- (4) CHILLED AND HOT WATER SUPPLY AND RETURN UP TO FAN COIL ABOVE. PIPE SIZED AS SCHEDULED.
- (5) ROUTE ¾" CONDENSATE DRAIN FROM FAN COIL ABOVE TO HUB DRAIN.
- 6 ROUTE CONDENSATE DRAIN TO SUMP.
- 7) CONDENSATE DOWN FROM ABOVE.



ARCHITECTURE PLANNING INTERIORS **GRAPHICS** 

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## HISTORIC JEFFERSON COUNTY HIGH SCHOOL **RESTORATION**

MONTICELLO, FLORIDA

OWNER NAME: Jefferson County Board of County Commissonioners
MONTICELLO, FLORIDA

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REV	DATE	DESCRIPTION

PROJECT PHASE

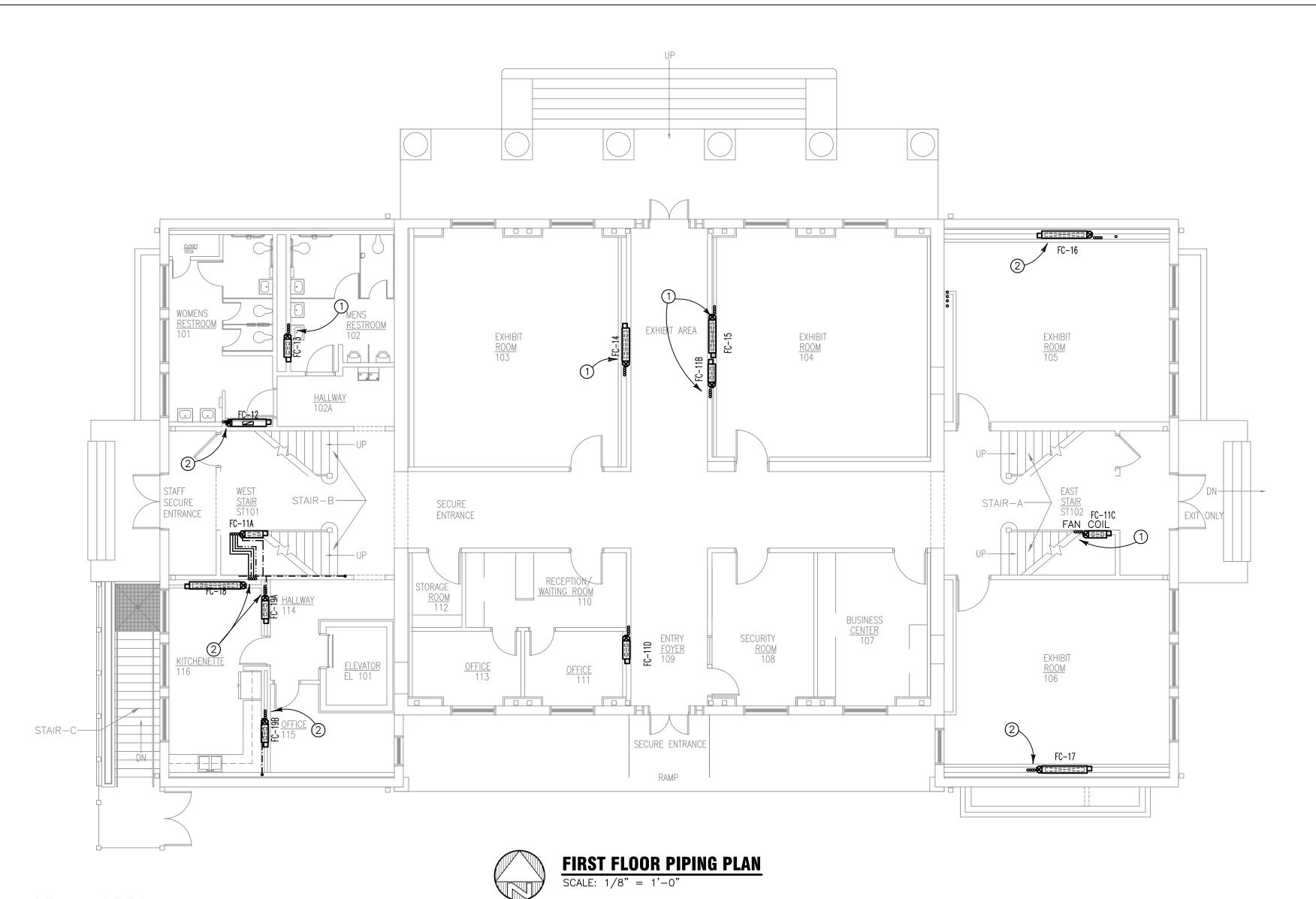
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DRAWN BY REW 01 AUGUST 2019 PROJECT NO CHECKED BY REW

SHEET TITLE

**BASEMENT** PIPING PLAN

**M205** 



THIS SHEET ONLY

- CHILLED AND HOT WATER SUPPLY AND RETURN UP TO FAN COIL FROM BELOW. PIPE SIZED AS SCHEDULED. 3/4" CONDENSATE PIPE DOWN TO BASEMENT LEVEL DISCHRGE INTO SUMP.
- (2) CHILLED AND HOT WATER SUPPLY AND RETURN DOWN TO FAN COIL FROM ABOVE. PIPE SIZED AS SCHEDULED. 3/4" CONDENSATE PIPE DOWN TO BASEMENT LEVEL DISCHARGE INTO SUMP.



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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www.emiarch.com
ucense #s AA C000409 | IB C000153

NOTE:
11"x17" SHEETS ARE PLOTTED
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THESE DRAWINGS.



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Roger E. Walsh, P.E. FLA #36997

Florida Department of State
Division of Historical Resources

#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA

OWNER NAME:
Jefferson County Board of
County Commissonioners
MONTICELLO, FLORIDA

REV	DATE	DESCRIPTION

PROJECT PHASE

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DATE
01 AUGUST 2019

PROJECT NO
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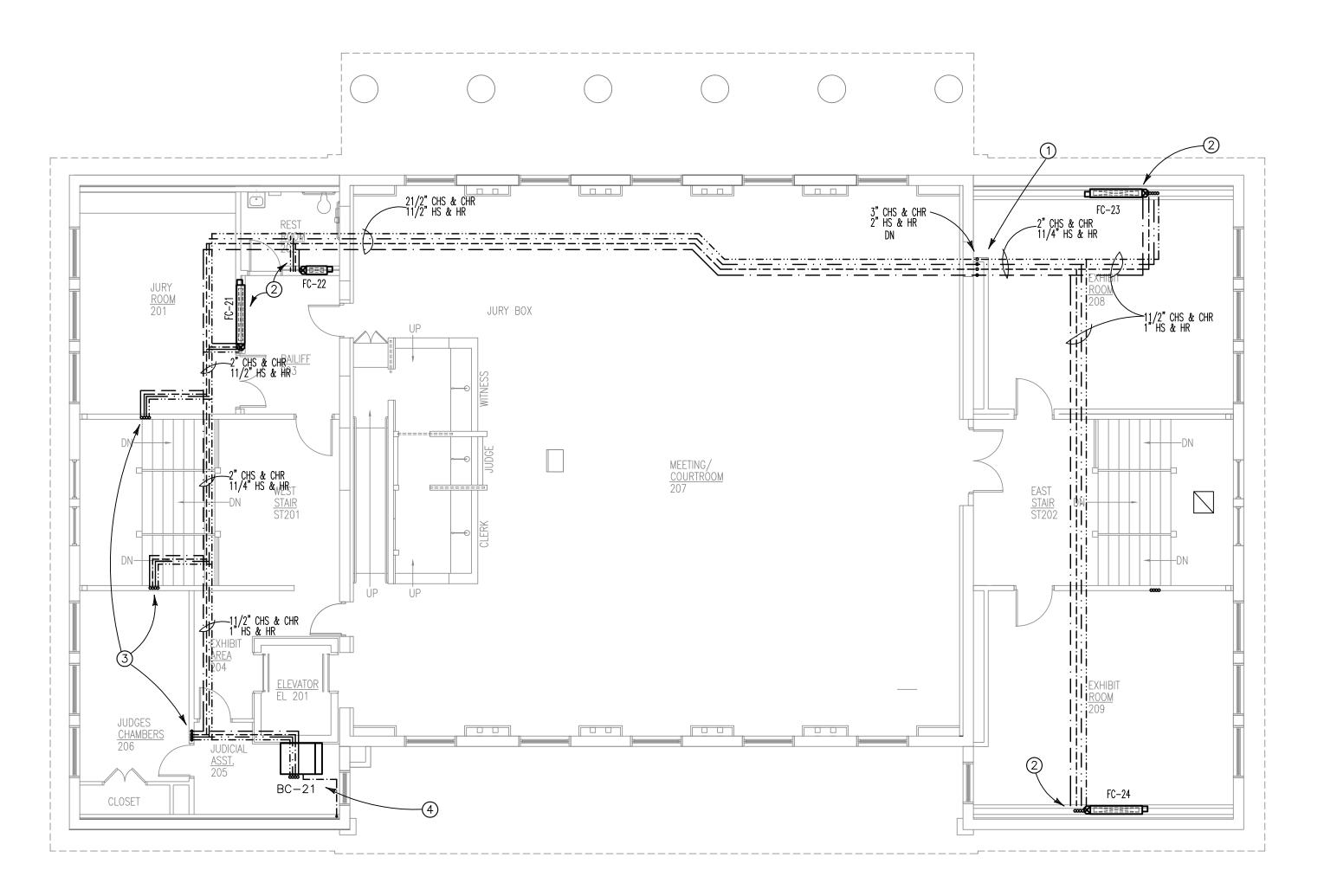
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REW

SHEET TITLE

FIRST FLOOR PIPING PLAN

SHEET NO **M206** 

REV NO





## SECOND FLOOR PIPING PLAN SCALE: 1/8" = 1'-0"

#### NEW WORK NOTES:

THIS SHEET ONLY

- 1) CHILLED AND HOT WATER SUPPLY AND RETURN UP FROM BELOW.
- 2 TURN CHILLED AND HOT WATER SUPPLY AND RETURN DOWN TO FAN COIL FROM ABOVE. PIPE SIZED AS SCHEDULED. EXTEND ¾" CONDENSATE CONCEALED IN WALL TO BASEMENT LEVEL DISCHARGE IN SUMP.
- ③ TURN CHILLED AND HOT WATER SUPPLY AND RETURN DOWN TO FAN COIL ON FIRST FLOOR. PIPE SIZED AS SCHEDULED. EXTEND ¾" CONDENSATE CONCEALED IN WALL TO BASEMENT LEVEL DISCHARGE IN SUMP.
- 4 CHILLED AND HOT WATER SUPPLY AND RETURN TO BLOWER COIL IN EQUIPMENT MEZZNINE. PIPE SIZED AS SCHEDULED. EXTEND ¾" CONDENSATE CONCEALED IN WALL TO BASEMENT LEVEL DISCHARGE IN SLIMP



ARCHITECTURE
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MONTICELLO, FLORIDA

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DATE
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PROJECT NO
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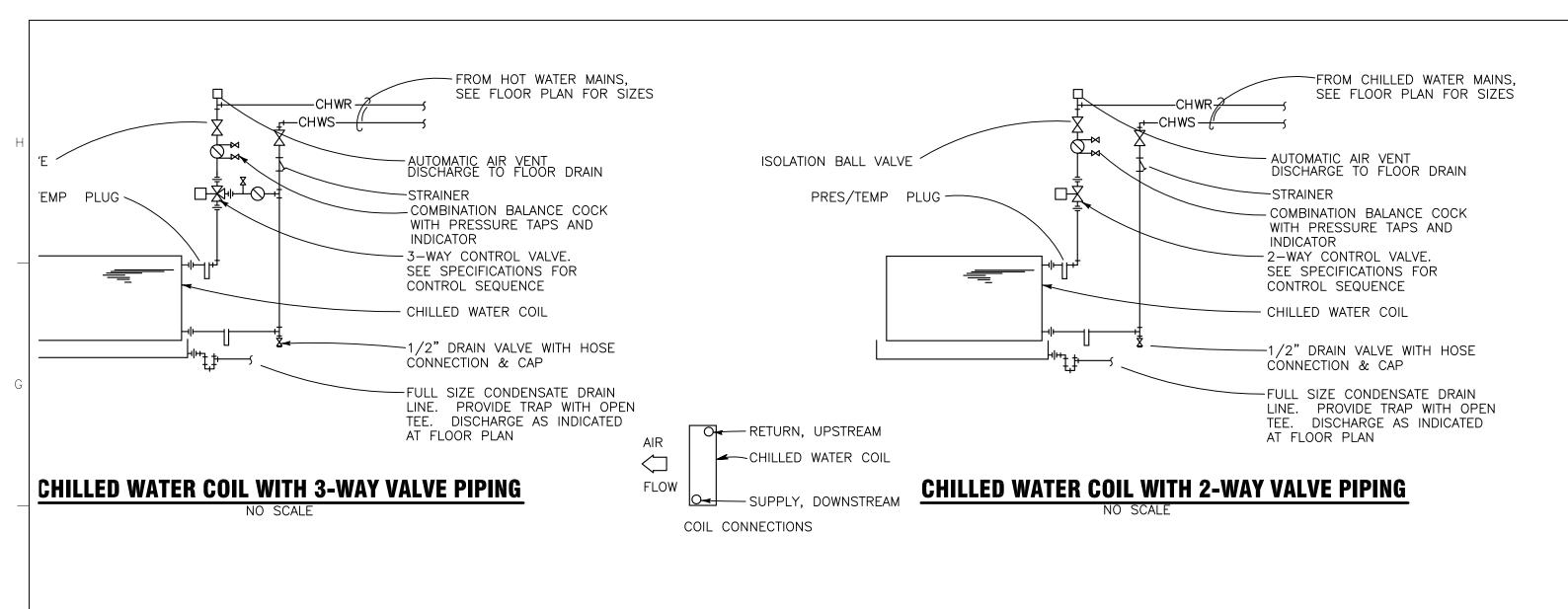
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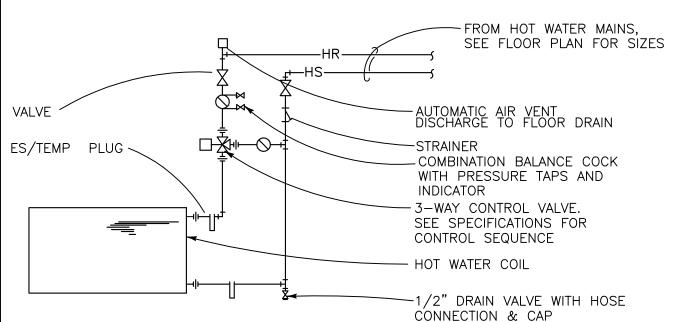
SHEET TITLE

SECOND FLOOR PIPING PLAN

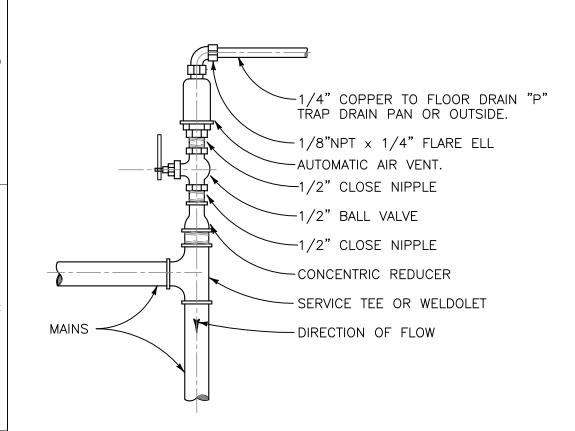
SHEET NO **M207** 

REV NO



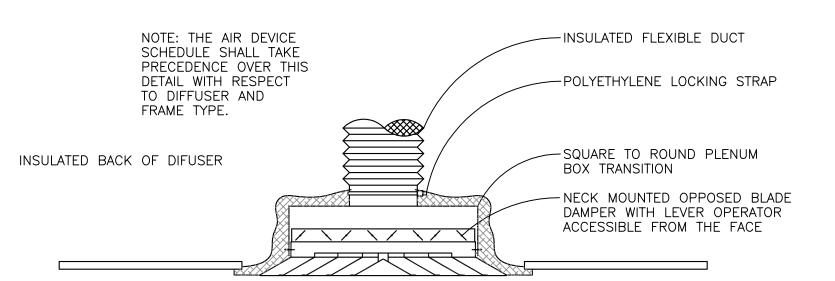


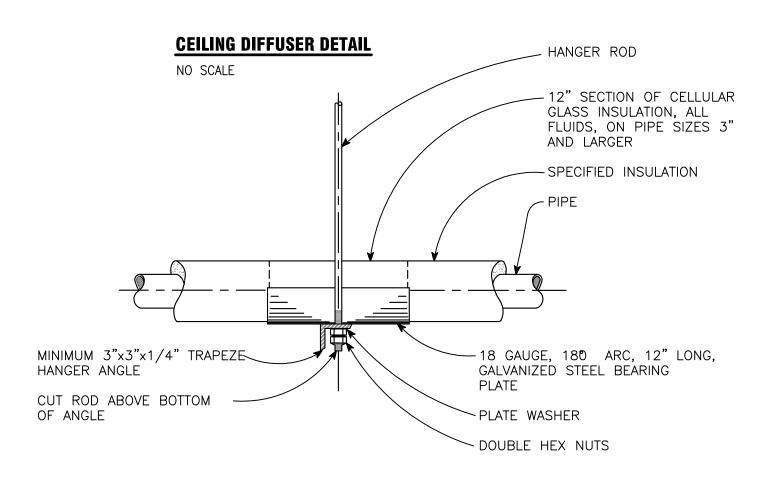
#### **HOT WATER COIL WITH 3-WAY VALVE PIPING**



#### **AUTOMATIC AIR VENT**

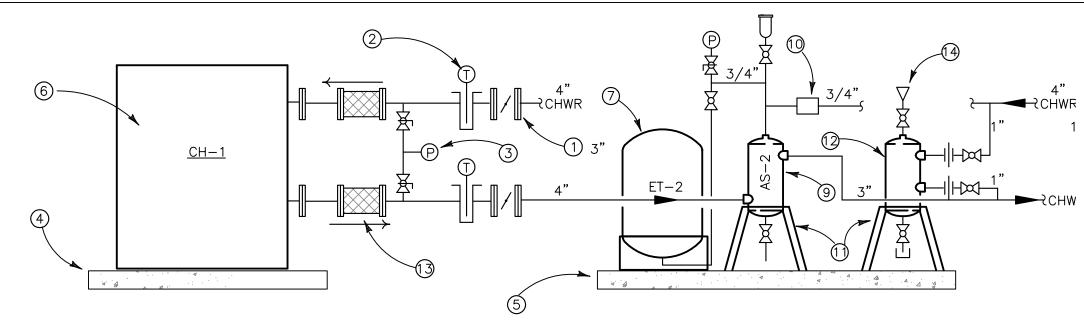
NO SCALE





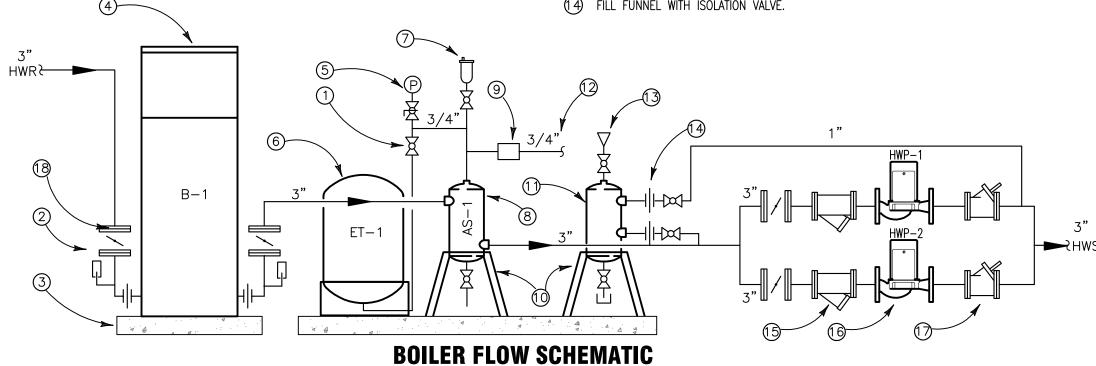
#### TRAPEZE PIPE HANGER

NO SCALE



#### **CHILLER FLOW SCHEMATIC**

- (1) BUTTERFLY VALVE, TYPICAL.
- (2) STEM TYPE THEMOMETER WITH SEPERABLE SOCKET WELL,
- 3 DIAL TYPE PRESSURE GUAGE WITH NEDDLE VALVE GAUGE
- (4) 8" HOUSE KEEPING PAD 6" LARGER THAN EQUIPMENT WITH #4 REBAB MAT 8" SPACING EACH DIRECTION REINFORCING, BULL NOSE CORNERS AND BRUSH FINISH.
- (5) 8" HOUSE KEEPING PAD 6" LARGER THAN EQUIPMENT WITH 6X6X#10 WWM REINFORCING, BULL NOSE CORNERS AND BRUSH FINISH.
- (6) CHILLER WITH PRE-WIRED AND PRE-PIPED DUPLEX PUMPS, STRAINER, TRIPLE DUTY VALVE, ETC. AS SPECIFIED.
- (7) DIAPHRAM TYPE EXPANSION TANK, 22 GALLON MINIMUM CAPACITY, 11 GALLON ACCEPTANCE, 12 PSIG PRECHARGE, B&G MODEL B-85LA. PRECHARGE PRIOR TO CONNECTION TO SYSTEM. ASME STAMPED 125 PSI REQUIRED.
- (8) HIGH CAPACITY AIR VENT EQUAL TO B&G MODEL 107A WITH ISOLATION COCK.
- (9) AIR SEPARATION TANK EQUAL TO B&G MODEL R4F.
- (10) MAKE UP WATER STATION AS DETAILED.
- (1) WELDED ANGLE STEEL STAND. SAND, PRIME, AND PAINT 2 COATS ENAMEL TO MATCH.
- (12) CHEMICAL SHOT FEEDER.
- (13) BRAIDED STAINLESS STEEL FLEXIBLE CONNECTION.
- (14) FILL FUNNEL WITH ISOLATION VALVE.

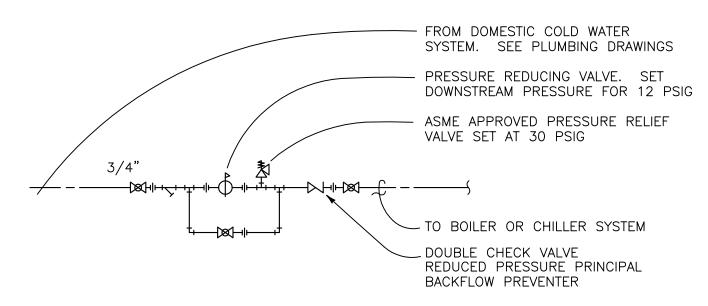


- (1) FULL BORE BALL VALVE, TYPICAL.
- STEM TYPE THEMOMETER WITH SEPERABLE SOCKET WELL, TYPICAL.
- (3) 8" HOUSE KEEPING PAD 6" LARGER THAN EQUIPMENT WITH 6X6X#10 WWM REINFORCING, BULL NOSE CORNERS AND BRUSH FINISH, TYPICAL.
- (4) HEATING HOT WATER BOILER B-1.
- (5) DIAL TYPE PRESSURE GUAGE WITH NEDDLE VALVE GAUGE COCK, TYPICAL.
- (6) DIAPHRAM TYPE EXPANSION TANK, 40 GALLON MINIMUM CAPACITY, 27 GALLON ACCEPTANCE, 12 PSIG PRECHARGE, B&G MODEL B-165LA. PRECHARGE PRIOR TO CONNECTION TO SYSTEM. ASME STAMPED 125 PSI REQUIRED.
- 7) HIGH CAPACITY AIR VENT EQUAL TO B&G MODEL 107A WITH ISOLATION COCK. EXTEND 3/8" COPPER FROM DISCHARGE TO

- (8) AIR SEPARATION TANK EQUAL TO B&G MODEL RL-3F.
- Make up water station as detailed.
- WELDED ANGLE STEEL STAND. SAND, PRIME, AND PAINT 2 COATS ENAMEL TO MATCH.
- (1) CHEMICAL SHOT FEEDER.
- (12) MAKE UP WATER.
- (13) FILL FUNNEL WITH ISOLATION VALVE.
- (14) UNIOIN, TYPICAL.
- (15) STRAINER.
- (16) HOT WATER CIRCULATING PUMP.
- (17) TRIPLE DUTY VALVE EQUAL TO B&G MODEL 3DS-2.
- (18) BUTTERFLY VALVE, TYPICAL.

#### SMALL PIPE WATER FREEZE PROTECTION

PROVIDE HEAT TAPE PROTECTION AND INSULATED AS CHILLED WATER ALL MAKE-UP WATER, SHOT FEEDER PIPING, AND OTHER SMALL PIPING ABOVE GRADE SUBJECT TO FREEZING.



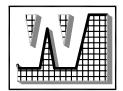
#### **CHILLER AND BOILER**



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#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL **RESTORATION**

MONTICELLO, FLORIDA

OWNER NAME: **Jefferson County Board of County Commissonioners** MONTICELLO, FLORIDA

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REV	DATE	DESCRIPTION

PROJECT PHASE 100% CONSTRUCTION DOCUMENTS

DRAWN BY 01 AUGUST 2019 PROJECT NO CHECKED BY REW 65000

SHEET TITLE

**MECHANICAL DETAILS** 

REV NO M301

#### TRIDIUM NIAGARA / BUILDING AUTOMATION SYSTEM ARCHITECTURE (THE TRIDIUM NIAGARA / BUILDING AUTOMATION SYSTEM FOR JCHS SHALL EXTEND ITS COMMUNICATION CAPABILITIES TO INTEGRATE FUTURE HVAC EQUIPMENT AS REQUIRED. SEE MECHANICAL DRAWINGS FOR CONNECTED DEVICES APPLICABLE TO THIS PROJECT) CUSTOMER PC with WEB BROWSER NIAGARA SUPERVISOR FRONTEND WORLD-WIDE INTERNET OWNER'S INTRANET OWNERS INTRANET NOT REQUIRED FOR PROPER BAS OPERATION. NOTE: COMMUNICATION CABLE REQUIRED IF NO OWNER INTRANET IS PRESENT. -----LYNXSPRING FIELD MOUNTED EDGE / BACnet LYNXSPRING FIELD MOUNTED EDGE / BACnet DDC CONTROLLER DDC CONTROLLER BACnet MS/TP ERU-1 AHU-B1 BACnet MS/TP \_\_\_\_\_ /----EXHAUST FAN EF-1B CHILLED WATER PUMPS (TYP) HOT WATER PUMPS (TYP) EXHAUST FAN (TYP) OUTDOOR AIR DUCTWORK (TYPICAL) \_\_\_\_ ST \_\_\_\_ \_\_\_\_ ST \_\_\_ CHW COIL NOT SHOWN (TYPICAL) \_\_\_\_\_ ST \_\_\_\_ ENCLOSURE ENCLOSURE FIELD MOUNTED LYNXSPRING CONTROLLER AS REQUIRED FIELD MOUNTED LYNXSPRING CONTROLLER AS REQUIRED FIELD MOUNTED LYNXSPRING CONTROLLER AS REQUIRED PLACE EXHAUST FANS ON A TIME-OF-DAY SCHEDULE SEE MECHANICAL DRAWING SCHEDULES FOR NUMBER OF CHW COIL NOT SHOWN (TYPICAL) TO OTHER EQUIPMENT WITH BACnet DDC CONTROLLERS OR DEVICES \_\_\_\_\_\_\_ BACnet MS/TP BACnet MS/TP TO OTHER EQUIPMENT WITH BACnet DDC CONTROLLERS OR DEVICES BACnet MS/TP BACNEL MS/TP COMMUNICATIONS CABLE SHOWN FOR CLARIFICATION. FIELD VERIFY BEST ROUTING FOR PROPER OPERATION. CHW COIL NOT SHOWN (TYPICAL) TO OTHER FCU TERMINALS FOR ERU-1 SEE MECHANICAL DRAWING'S SCHEDULE FOR THE NUMBER OF FCU TERMINALS ASSOCIATED WITH ERU-1. ★ 120VAC TO FCU CONTROL CABINET BY ELECTRICAL CONTRACTOR.

SYSTEM ARCHITECTURE



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA
OWNER NAME:

Jefferson County Board of County Commissonioners MONTICELLO, FLORIDA

REV	DATE	DESCRIPTION

PROJECT PHASE

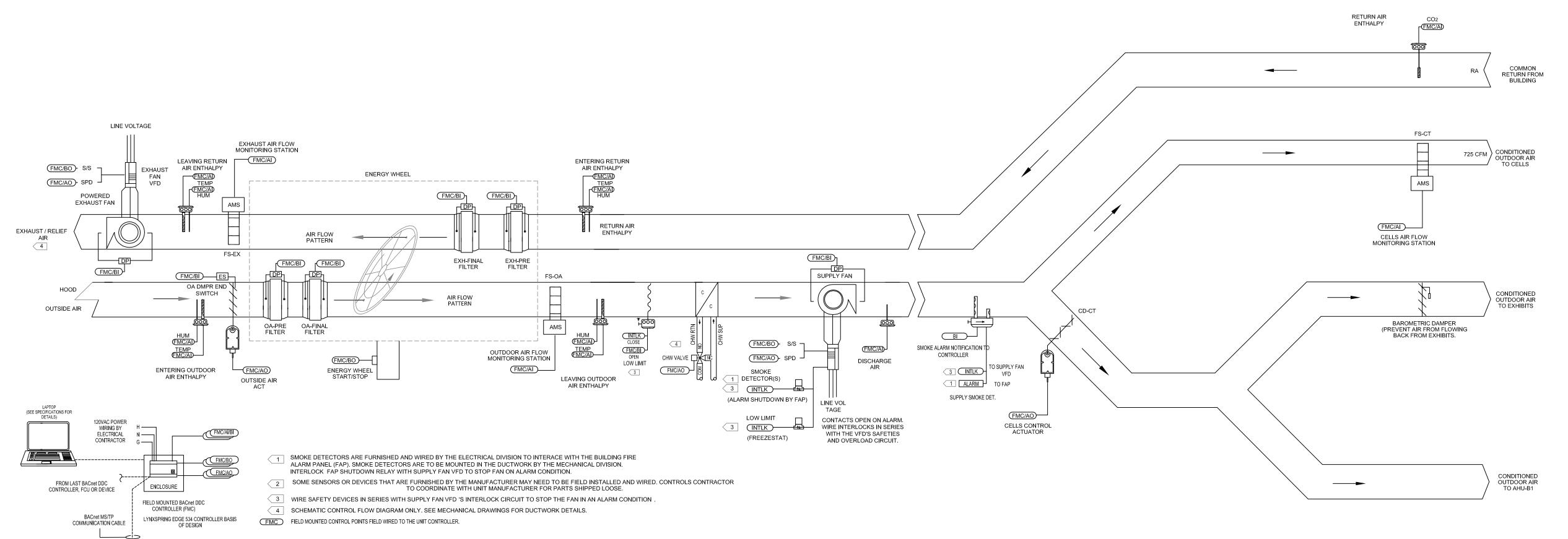
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01 AUGUST 2019	REM		
PROJECT NO	CHECKED BY		
65000	REW		

SHEET TITLE

MECHANICAL CONTROLS

T NO REV NO M401



#### ERU-1 SEQUENCE OF OPERATION

TO NEXT BACnet DDC

BUILDING MONITORING SYSTEM INTERFACE: THE TRIDIUM NIAGARA ENTERPRISE SYSTEM, IN CONJUNCTION WITH LYNXSPRING CONTROLS AND DAIKIIN HVAC EQUIPMENT, IS THE BUILDING AUTOMATION SYSTEM (BAS) BASIS OF DESIGN. THE BUILDING AUTOMATION SYSTEM (BAS) WILL COMMUNICATE TO THE ERU, AHU AND FCU CONTROLLERS AN OCCUPIED, UNOCCUPIED, OPTIMAL START, NIGHT SETBACK HEAT / COOL AND TIMED OVERRIDE COMMANDS. IF COMMUNICATION IS LOST WITH THE BAS, OR A BAS IS NOT PRESENT, THE ERU, AHU AND FCU'S CONTROLLERS SHALL CONTROL TO THE DEFAULT SETTINGS INSTALLED AT

#### OCCUPIED MODE:

DURING OCCUPIED MODE, ERU-1'S OUTDOOR AIR DAMPER SHALL MODULATE TO THE FULLY OPEN POSITION. WHEN THE DAMPER'S END SWITCH IS MADE, CONFIRMING THE OA DAMPER IS FULLY OPEN. THE SUPPLY FAN SHALL START AND RUN CONTINUOUSLY. THE UNIT POWERED EXHAUST FAN SHALL START AND MODULATE TO TRACK THE CFM OF THE SUPPLY FAN. WHICH MODULATES TO MAINTAIN THE CO2 LEVELS WITHIN THE BUILDING FOR PROPER VENTILATION. ANY ASSOCIATED EXHAUST FANS SHALL ALSO BE STARTED. ERU-1'S CHILLED WATER VALVE SHALL MODULATE TO MAINTAIN THE SUPPLY AIR TEMPERATURE SETPOINT OF 55°F (ADJ.).

#### IN THE OCCUPIED MODE ERU-1 FANS AND ENTHALPY WHEEL SHALL BE ENERGIZED.

ERU-1 OUTDOOR AIR SUPPLY FAN SPEED SHALL BE CONTROLLED BY ITS VARIABLE FREQUENCY DRIVE (VFD). THE VFD SHALL LOOK AT THE TWO CO2 SENSORS (ONE IN RETURN TO ERU-1 AND ONE IN RETURN TO AHU-B1 FROM COURTROOM AREA) AND MODULATE FAN SPEED BETWEEN MINIMUM SUPPLY VALUE (1383 CFM) AND MAXIMUM SUPPLY VALUE (4275 CFM) BASED ON THE HIGHER OF THE TWO CO2 SENSOR VALUES, MODULATING BÉTWEEN MINIMUM AND MAXIM FLOW BETWEEN 800 PPM AND 1000 PPM MEASURED CO2 CONCENTRATIONS.

ERU-1 EXHAUST FAN SHALL BE CONTROLLED BY ITS VFD. THE VFD SHALL COMPARE THE FLOW VALUES OF FS-OA AND FS-EX AND SHALL MODULATE THE EXHAUST FAN SPEED TO MATCH FS-EX TO FS-OA WITHIN THE MAXIMUM (3093 CM) AND MINIMUM (1383 CFM) FLOW VALUES ALLOWED.

FS-CT FLOW STATION SHALL MODULATE CONTROL DAMPER CD-CT TO MAINTAIN A CONSTANT FLOW THROUGH FS-CT.

#### UNOCCUPIED MODE:

IN THE UNOCCUPIED MODE, ERU-1 FANS AND ENTHALPY WHEEL SHALL BE DE-ENERGIZED AND THE OUTDOOR AIR DAMPER SHALL CLOSE AND ANY ASSOCIATED EXHAUST FAN SHALL STOP.

EACH PIECE OF EQUIPMENT SHALL HAVE ITS OWN INDEPENDENT TIME OF DAY (TOD) SCHEDULE OR CAN BE ASSIGNED TO A GROUP TO BE STARTED TOGETHER USING A TIME DELAY BETWEEN EACH ZONE THAT IS STARTED VIA ITS TOD SCHEDULE OR MANUALLY OVERRIDEN, THAT REQUIRES SUPPORT FROM THE BUILDING SYSTEMS, I.E., HOT WATER SYSTEM, CHILLED WATER SYSTEMS,

#### AHU-B1 AND ERU-1, SHALL CAUSE THE ASSOCIATED SYSTEMS TO START TO SATISFY ANY HEATING OR COOLING DEMANDS.

THE SUPPLY AND EXHAUST FANS SHALL BE ENABLED WHILE IN THE OCCUPIED MODE ONLY. A FIELD MOUNTED AIR FLOW SENSING SWITCH, MOUNTED ACROSS THE FAN, SHALL MONITOR THE DIFFERENTIAL PRESSURE CREATED BY THE SUPPLY FAN WHILE RUNNING AND SHALL MAKE ITS CONTACT WHEN THE DIFFERENTIAL PRESSURE SETPOINT IS REACHED. IF THE DP SWITCH DOES NOT MAKE WITHIN 40 SECONDS AFTER THE FAN HAS BEEN COMMANDED TO RUN, OR OPENS DURING NORMAL OPERATING CONDITIONS, THE SUPPLY FAN SHALL STOP, AND AN ALARM SENT TO THE BAS.

**ENERGY RECOVERY WHEEL OPERATION:** THE ENERGY RECOVERY WHEEL SHALL BE STARTED WHEN THE ERU-1 IS IN THE OCCUPIED MODE AND SHALL BE STOPPED WHEN ERU-1 IS IN THE UNOCCUPIED MODE.

WHEN THE OUTDOOR AIR TEMPERATURE IS LESS THAN 55°F, THE WHEEL SHALL EXTRACT WARM AIR FROM THE EXHAUST AIR AND PROVIDE FREE HEATING OF THE OUTDOOR AIR AS IT CROSSES

WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 75°F, THE WHEEL SHALL EXTRACT COOL AIR FROM THE EXHAUST AIR AND PROVIDE FREE COOLING OF THE OUTDOOR AIR AS IT CROSSES THE

#### WHEN THE OUTDOOR AIR TEMPERATURE IS BETWEEN 55°F AND 75°F THE WHEEL IS INEFFICIENT AND SHALL BE STOPPED.

IF THE ENTERING AIR TEMPERATURE TO THE COOLING COIL, DROPS BELOW 35°F FOR THIRTY MINUTES, A UNIT MOUNTED LOW-LIMIT (FREEZESTAT) DEVICE SHALL SHUT DOWN THE UNIT'S SUPPLY FAN AND SIGNAL THE UNIT CONTROLLER TO CLOSE THE OUTDOOR AIR DAMPER, OPEN THE CHILLED WATER CONTROL VALVE AND START ITS ASSOCIATED CHILLED WATER PUMP TO PREVENT THE COIL AND ASSOCIATED PIPING FROM FREEZING. ONCE THE OUTDOOR AIR TEMPERATURE INCREASES ABOVE THE FREEZING LEVEL THE UNIT SHALL, RE-ENERGIZE FORNORMAL OPERATION.

SMOKE DETECTOR SHUTDOWN: THE SUPPLY AIR SMOKE DETECTOR SHALL NOTIFY THE BUILDING FIRE ALARM SYSTEM IN RESPONSE TO DETECTING THE PRESENCE OF SMOKE. UPON DETECTION OF SMOKE BY THE DETECTOR, THE ADDRESSABLE RELAY IN THE BUILDING FIRE ALARM SYSTEM SHALL SHUTDOWN THE RTU. THE SMOKE DETECTORS SHALL NOTIFY THE BAS UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTOR SHALL BE REQUIRED TO RESTART THE UNIT.

A FIELD MOUNTED DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS EACH FILTER SECTION WHILE THE FAN IS RUNNING. IF THE SWITCH CLOSES ON ANY

FILTER DP SWITCH, SET AT 1.0"W.C. (ADJ.), FOR 2 MINUTES, A DIRTY FILTER ALARM SHALL BE ANNUNCIATED AT THE BAS.

#### **ENERGY RECOVERY UNIT ERU-1**

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	R OF HEATING STAGES, ETC.															



ARCHITECTURE PLANNING INTERIORS GRAPHICS

ELLIOTT MARSHALL INNES P.A. [EMI orchitects] 251 E. 7TH AVENUE TALLAHASSEE FL 32303 (850) 222 - 7442 WWW.emiarch.com IICENSE #1 AA C000009 IB C000153

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r.e.Walsh Engineering, Inc. 3073 Hickory Wind Road, Tallahassee, Florida 32317 Phone (850) 656-3800 C.A.#00009540

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Roger E. Walsh, P.E.

Florida Department of State Division of Historical Resources

#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA

**Jefferson County Board of County Commissonioners** MONTICELLO, FLORIDA

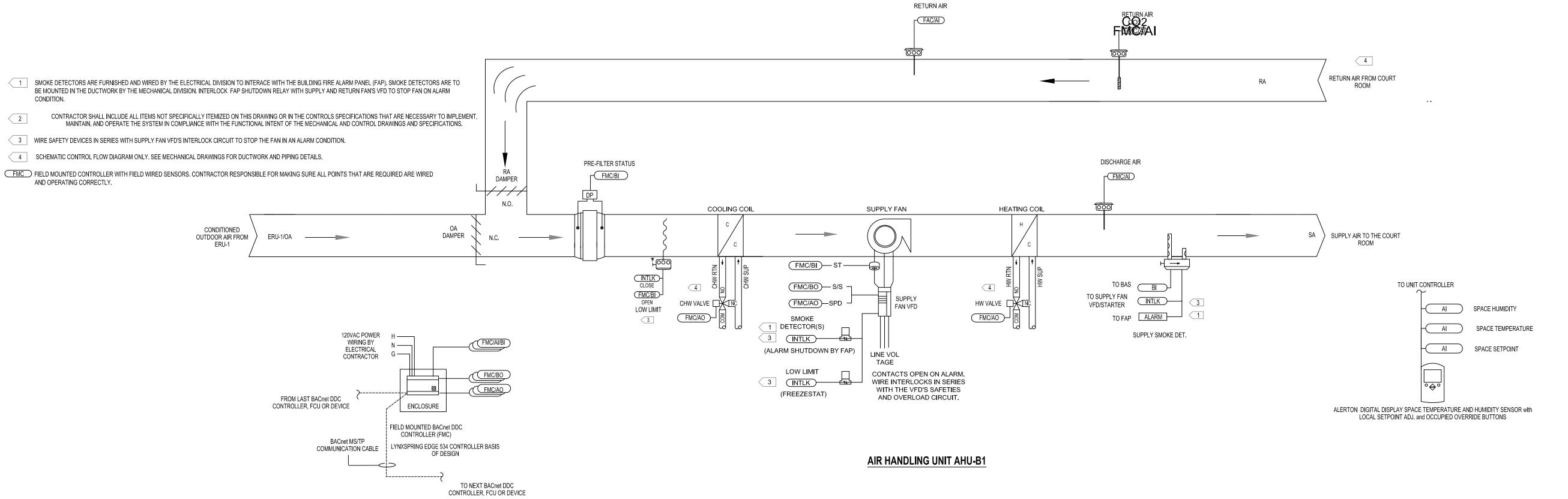
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REV	DATE	DESCRIPTION
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PROJECT PHASE 100% CONSTRUCTION DOCUMENTS

DRAWN BY 01 AUGUST 2019 PROJECT NO CHECKED BY REW 65000

SHEET TITLE

REV NO M402



AHU-1

#### SEQUENCE OF OPERATION

BUILDING MONITORING SYSTEM INTERFACE:
THE TRIDIUM NIAGARA ENTERPRISE SYSTEM, IN CONJUNCTION WITH LYNXSPRING CONTROLS AND DAIKIIN HVAC EQUIPMENT, IS THE BUILDING AUTOMATION SYSTEM (BAS) BASIS OF DESIGN. THE BUILDING AUTOMATION SYSTEM (BAS) WILL COMMUNICATE TO THE ERU, AHU AND FCU CONTROLLERS AN OCCUPIED, UNOCCUPIED, OPTIMAL START, NIGHT SETBACK HEAT / COOL AND TIMED OVERRIDE COMMANDS. IF COMMUNICATION IS LOST WITH THE BAS, OR A BAS IS NOT PRESENT, THE ERU, AHU AND FCU'S CONTROLLERS SHALL CONTROL TO THE DEFAULT SETTINGS INSTALLED AT COMMISSIONING/START-UP.

#### OCCUPIED MODE: DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL START AND RUN CONTINUOUSLY AT FULL DESIGN FLOW.

ASSOCIATED SPACE SHALL BE MONITORED BY TEMPERATURE AND HUMIDITY SENSORS. THE COOLING COIL AND HEATING COIL SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE AT SET POINT WITH A 2°F RANGE (ADJUSTABLE) AND A 2°F DEAD BAND(ADJUSTABLE). (EXAMPLE: AT 72°F SET POINT, COOLING 0-100% BETWEEN 72°F AND 74°F RESPECTIVELY, HEATING 0-100% BETWEEN 70°F AND 68°F RESPECTIVELY.) UPON A RISE IN HUMIDITY TO 5% OVER SET POINT, COOLING COIL SHALL MODULATE TO 100% AND HEATING COIL, IN THE REHEAT POSITION, SHALL MODULATE TO MAINTAIN TEMPERATURE UNTIL HUMIDITY IS RETURNED TO SET POINT.

#### UNOCCUPIED MODE:

IN THE UNOCCUPIED MODE AIR HANDLERS SHALL BE AVAILABLE TO CYCLE BASED ON A CALL FOR HEAT OR COOLING TO MAINTAIN SPACE SET BACK TEMPERATURE AND SPACE HUMIDITY.

ASSOCIATED SPACE SHALL BE MONITORED BY TEMPERATURE AND HUMIDITY SENSORS. UPON A CALL FOR HEATING OR COOLING, THE FAN SHALL ENERGIZE TO ITS MINIMUM FLOW SPEED. THE COOLING COIL AND HEATING COIL SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE AT SET BACK SET POINT WITH A 2°F RANGE (ADJUSTABLE) AND A 10°F DEAD BAND (ADJUSTABLE). (EXAMPLE: AT 76°F SET POINT, COOLING 0-100% BETWEEN 76°F AND 78°F RESPECTIVELY, HEATING 0-100% BETWEEN 66°F AND 64°F RESPECTIVELY.) UPON A RISE IN HUMIDITY TO 5% OVER SET POINT, COOLING COIL SHALL MODULATE TO 100% AND HEATING COIL, IN THE REHEAT POSITION, SHALL MODULATE TO MAINTAIN TEMPERATURE UNTIL HUMIDITY IS RETURNED TO SET POINT.

#### OCCUPIED / UNOCCUPIED SCHEDULES: EACH PIECE OF EQUIPMENT SHALL HAVE ITS OWN INDEPENDENT TIME OF DAY (TOD) SCHEDULE OR CAN BE ASSIGNED TO A GROUP TO BE STARTED TOGETHER USING A TIME DELAY BETWEEN STARTS FOR ENERGY SAVINGS.

EACH ZONE THAT IS STARTED VIA ITS TOD SCHEDULE OR MANUALLY OVERRIDEN, THAT REQUIRES SUPPORT FROM THE BUILDING SYSTEMS, I.E., HOT WATER SYSTEM, CHILLED WATER SYSTEMS,

AHU-1B AND ERU-1, SHALL CAUSE THE ASSOCIATED SYSTEMS TO START TO SATISFY ANY HEATING OR COOLING DEMANDS.

OPTIMAL START:
THE BAS SHALL MONITOR EACH SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINT AND SPACE TEMPERATURE AND SHALL COMPARE THE CURRENT VALVES TO THE RECENT HISTORICAL

DATA COLLECTED AND CALCULATE WHEN THE OPTIMAL START SHOULD OCCURS.

#### SMOKE DETECTOR SHUTDOWN:

THE SUPPLY AIR SMOKE DETECTOR SHALL NOTIFY THE BUILDING FIRE ALARM PANEL (SYSTEM) IN RESPONSE TO DETECTING THE PRESENCE OF SMOKE. UPON DETECTION OF SMOKE BY THE DETECTOR, THE ADDRESSABLE RELAY FROM THE BUILDING FIRE ALARM SYSTEM SHALL SHUTDOWN THE AHU. THE SMOKE DETECTORS SHALL NOTIFY THE BAS UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTOR SHALL BE REQUIRED TO RESTART THE UNIT.

#### FILTER STATUS:

A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER SECTION WHILE THE FAN IS RUNNING. IF THE SWITCH CLOSES, SET AT 1.0"W.C. (ADJ.), FOR 2 MINUTES, A DIRTY FILTER ALARM SHALL BE ANNUNCIATED AT THE BAS.

CONTROLLER: BACnet				POI	NT T	YPE							AL	ARI	MS	
SYSTEM POINT DESCRIPTION		2	î	5		S.			3	0 0		Ů.	<i>a</i> 70	8 5		*
AHU-1 SHOWN	DIHABNIC	HARDWARE INPUT	HARDWARE OUTPUT	BACINET OR SOFTWARE POINT	HARDWIRE INTERLOCK	BY CONTROLS CONTRACTOR (C.C.)	NETWORK	DEFAULT VALUE	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL	DIAGNOSTICS	NOTES:
AHU-1 (SZVAV)		2	1 1										\$			
GENERAL		\$45.00	4	w.100.00	000								Que service			NOTE 4
SPACE TEMPERATURE	X	Al	3 3	Х		×			X	X		: :	X		SENSOR FAILURE	Burnamer.
SPACE TEMPERATURE SETPOINT	X	Ai		X		X			X	X			X	21 10	SENSOR FAILURE	
SPACE HUMIDITY SUPPLY AIR SMOKE DETECTOR ALARM	×	Al Bl		X	X	×		(	Х	X	×	X	X		SENSOR FAILURE S.D. (N.O. CONTACT)	NOTE 1
OUTDOOR / RETURN AIR DAMPER CONTROL	X	BI	AO	X	^	x					^	^	9		S.D. (N.O. CONTACT)	NOTE
RETURN AIR CO2	×	Al		Х		X			Х	X	0.		Х		SENSOR FAILURE	_
RETURN AIR TEMPERATURE	X	Al	2	X		X	-	-	X	X			X		SENSOR FAILURE	-
TURN AIR FLOW MONITORING STATION (EBTRON)	×	Al		X		×			Х	X			X	5 1	SENSOR FAILURE	
FILTER STATUS	Х	BI		Х		х	2			6 9	×				DIRTY FILTER	
CHILLED WATER VALVE CONTROL	X	9 =	AO	Y		×								8 3	0	NOTE 3
CHILLED WATER VALVE POSITION (SOFTWARE)	X		70	X		-				1	х		8			NOILS
FREEZESTAT (LOW-LIMIT SAFETY)	X	BI	0 - 3	X		X					X		3	3 1		
SUPPLY FAN START/STOP	×		ВО	Х		×					×					
SUPPLY FAN SPEED CONTROL	X		AO	X		×		8					ō.			
SUPPLY FAN STATUS	X	Bi	S. C. TILA	X	Ш., .,.	×			0.1961		X					NOTE 2
SUPPLY FAN SPEED FEEDBACK	Al	No. and C	Х	Х	χ	Х		Х	Х		-2000	X	<u></u>			A PARTON AND THE PART
HOT WATER VALVE CONTROL	Х		AO	v		×			-				4		A	NOTE 3
HOT WATER VALVE POSITION (SOFTWARE)		1	HU	X		^					×		6	8 3		HOTES
DISCHARGE AIR SENSOR		Al	B 1	X		×			Х	Х			Х		SENSOR FAILURE	
NOTE: CONTROLS CONTRACTOR RESPONSIBL	EFOR	R BACK	net_SO	FTWA	RE AN	00.00	COLUM	N POINTS F	PROVIDE	OR IN	TEGRA	TE AS	REQU	RED	SEE CONTROLS DRAWINGS	FOR OTHER DETAILS
RAL NOTES   NOTE 1: USE AUX CONTACT CLOSUR																

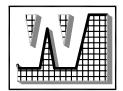


ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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NOTE:
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AT ½ THE SCALE NOTED ON

THESE DRAWINGS.



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Florida Department of State
Division of Historical Resources

#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA

OWNER NAME:

Jefferson County Board of
County Commissonioners
MONTICELLO, FLORIDA

REV	DATE	DESCRIPTION

PROJECT PHASE

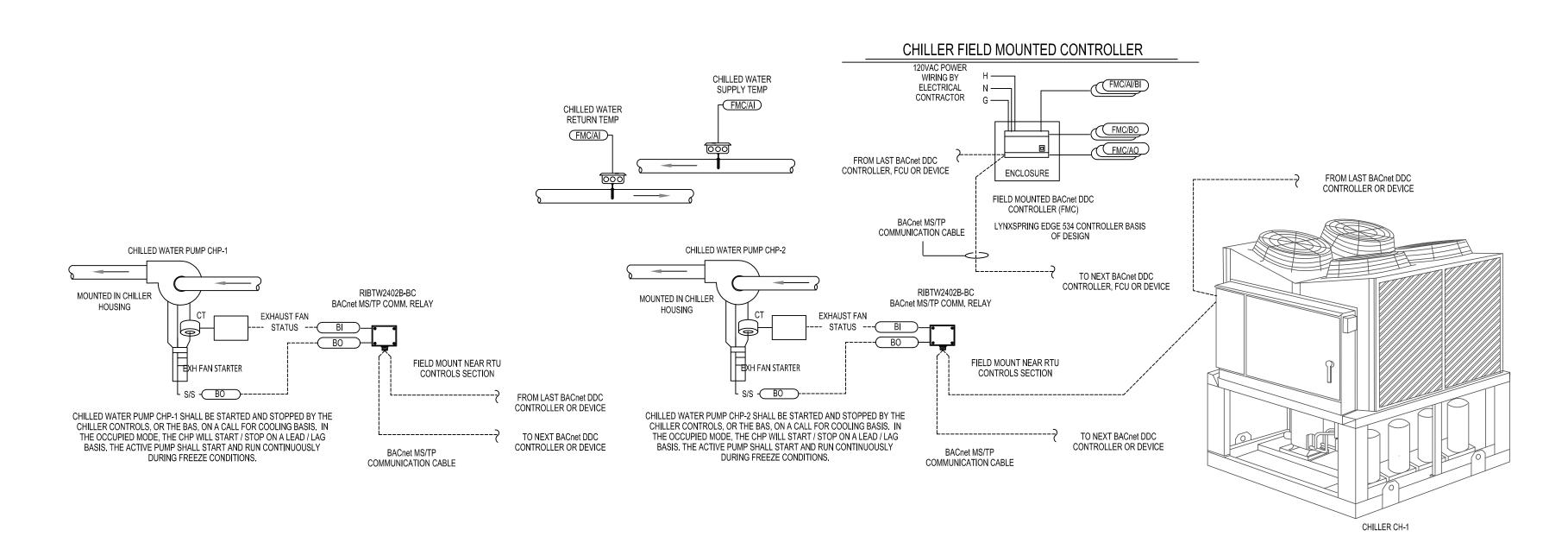
100% CONSTRUCTION DOCUMENTS

PROJECT NO CHECKED E 65000 REW	DATE 01 AUGUST 2019	DRAWN BY REW
		CHECKED B'

SHEET TITLE

MECHANICAL CONTROLS

SHEET NO REV NO M403



#### MISCELLANEOUS EQUIPMENT EF-B1, EF-21, CHILLED WATER SYSTEM AND HOT WATER SYSTEM

#### SEQUENCE OF OPERATION

BUILDING MONITORING SYSTEM INTERFACE: THE TRIDIUM NIAGARA ENTERPRISE SYSTEM, IN CONJUNCTION WITH LYNXSPRING CONTROLS AND DAIKIIN HVAC EQUIPMENT, IS THE BUILDING AUTOMATION SYSTEM (BAS) BASIS OF DESIGN. THE BUILDING AUTOMATION SYSTEM (BAS) WILL COMMUNICATE TO THE CHILLER, BOILER, PUMPS AND EXHAUST FAN CONTROLLERS AN OCCUPIED, UNOCCUPIED, OPTIMAL START, NIGHT SETBACK HEAT / COOL AND TIMED OVERRIDE COMMANDS. IF COMMUNICATION IS LOST WITH THE BAS, OR A BAS IS NOT PRESENT, THE ERU, AHU AND FCU'S CONTROLLERS SHALL CONTROL TO THE DEFAULT SETTINGS INSTALLED AT COMMISSIONING/START-UP.

#### HOT WATER SYSTEM

OCCUPIED MODE: IN THE OCCUPIED MODE THE BOILER B-1 AND PUMPS SHALL BE AVAILABLE TO ENERGIZE UPON A CALL FOR HEAT. UPON A CALL FOR HEAT BOILER B-1 SHALL ENERGIZE AND THE ACTIVE HOT WATER PUMP SHALL ENERGIZE. HWP-1 AND HWP-2, SHALL ROTATE BETWEEN ACTIVE AND STAND-BY BASED ON 20 HOUR (ADJUSTABLE) RUN TIME SETTING. BOILER SHALL MODULATE FIRE TO MAINTAIN A 180°F (ADJUSTABLE) TEMPERATURE SET POINT.

UNOCCUPIED MODE: IN THE UNOCCUPIED MODE, BOILER B-1 AND PUMPS SHALL BE DE-ERGIZED BUT SHALL BE AVAILABLE UPON A CALL FOR HEATING BELOW THE NIGHT SETBACK TEMPERATURE.

OCCUPIED / UNOCCUPIED SCHEDULES:
EACH PIECE OF EQUIPMENT SHALL HAVE ITS OWN INDEPENDENT TIME OF DAY (TOD) SCHEDULE OR CAN BE ASSIGNED TO A GROUP TO BE STARTED TOGETHER USING A TIME DELAY BETWEEN

EACH ZONE THAT IS STARTED VIA ITS TOD SCHEDULE OR MANUALLY OVERRIDEN, THAT REQUIRES SUPPORT FROM THE BUILDING SYSTEMS, I.E., HOT WATER SYSTEM, CHILLED WATER SYSTEMS, AND ERU-1, SHALL CAUSE THE ASSOCIATED SYSTEMS TO START TO SATISFY ANY HEATING OR COOLING DEMANDS.

FREEZE PROTECTION: UPON A FALL IN OUTSIDE AIR TEMPERATURE BELOW 34F (ADJUSTABLE) FOR A THIRTY MINUTE (ADJUSTABLE) TIME DELAY, BOILER AND ASSOCIATED PUMPS SHALL BE ENERGIZED TO RUN AND MAINTAIN SET POINT WATER TEMPERATURE.

#### CHILLED WATER SYSTEM

OCCUPIED MODE: IN THE OCCUPIED MODE CHILLER CH-1 AND ASSOCIATED PUMPS SHALL BE AVAILABLE TO ENERGIZE UPON CALL FOR COOLING. UPON A CALL FOR COOLING CHILLER CH-1 SHALL ENERGIZE AND THE ACTIVE CHILLED WATER PUMP SHALL ENERGIZE. CHP-1 AND CHP-2 SHALL ROTATE BETWEEN ACTIVE AND STAND-BY BASED ON 20 HOUR (ADJUSTABLE) RUN TIME SETTING. CHILLER SHALL MODULATE TO MAINTAIN A 52°F (ADJUSTABLE) TEMPERATURE SET POINT.

UNOCCUPIED MODE: IN THE UNOCCUPIED MODE, CHILLER CH-1 AND SYSTEM PUMPS SHALL BE DE-ENERGIZED BUT SHALL BE AVAILABLE ON A CALL FOR COOLING ABOVE THE NIGHT SETBACK

EACH PIECE OF EQUIPMENT SHALL HAVE ITS OWN INDEPENDENT TIME OF DAY (TOD) SCHEDULE OR CAN BE ASSIGNED TO A GROUP TO BE STARTED TOGETHER USING A TIME DELAY BETWEEN

EACH FCU ZONE THAT IS STARTED VIA ITS TOD SCHEDULE OR MANUALLY OVERRIDEN, THAT REQUIRES SUPPORT FROM THE BUILDING SYSTEMS, I.E., HOT WATER SYSTEM, CHILLED WATER SYSTEMS, AHU-B1 AND ERU-1, SHALL CAUSE THE ASSOCIATED SYSTEMS TO START TO SATISFY ANY HEATING OR COOLING DEMANDS.

FREEZE PROTECTION: UPON A FALL IN OUTSIDE AIR TEMPERATURE BELOW 34F (ADJUSTABLE) FOR A THIRTY MINUTE (ADJUSTABLE) TIME DELAY, OR IF THE FREEZESTAT LOW-LIMIT SWITCH IN EITHER ERU-1 OR AHU-B1 TRIPS, INDICATING A FREEZING CONDITION, A SIGNAL SHALL BE SENT TO THE BAS AND THE UNIT SHALL STOP, ITS OUTDOOR DAMPER SHALL CLOSE AND THE CONTROL VALVE SHALL OPEN TO 100%. THE ASSOCIATED PUMPS SHALL ENERGIZE TO CIRCULATE WATER THROUGH OUT THE WATER SYSTEM TO PREVENT THE PIPES OR COILS FROM FREEZING.

#### EXHAUST FANS EF-B1 AND EF-21

OCCUPIED MODE: IN THE OCCUPIED MODE, THE EXHAUST FANS SHALL BE ENERGIZED. THE FANS SHALL START AND RUN CONTINUOUSLY AT A CONSTANT SPEED.

UNOCCUPIED MODE: IN THE UNOCCUPIED MODE, THE EXHAUST FANS SHALL BE DE-ENERGIZED.

EACH PIECE OF EQUIPMENT SHALL HAVE ITS OWN INDEPENDENT TIME OF DAY (TOD) SCHEDULE OR CAN BE ASSIGNED TO A GROUP TO BE STARTED TOGETHER USING A TIME DELAY BETWEEN STARTS FOR ENERGY SAVINGS.

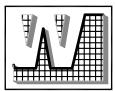
CONTROLLER: BACnet				POI	NT T	YPE	Ä						AL	ARI	MS	
SYSTEM POINT DESCRIPTION		r v		L=		œ		6						e.		
PICAL FOR EF-B1, EF-21, CHW SYSTEM, HW SYSTEM	GRAPHIC	HARDWARE INPUT	HARDWARE OUTPUT	BACnet OR SOFTWARE POINT	HARDWIRE INTERLOCK	BY CONTROLS CONTRACTOR (C.C.)	NETWORK	DEFAULT VALUE	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL	DIAGNOSTICS	NOTES:
EXHAUST FANS																
EXHAUST FAN EF-B1 START/STOP EXHAUST FAN EF-B1 STATUS	X	Di	ВО	X							X					NOTE 2
ENTMUST FAIN EF-BT STATUS	X	BI	-			X			X	X	^					NOTE Z
EXHAUST FAN EF-21 START/STOP	Х		ВО	Х					_^	^	X					1
EXHAUST FAN EF-21 STATUS	X	BI	50	X		Х					x					NOTE 2
						- 22					1505					
HOT WATER SYSTEM																
BOILER B-1 REMOTE START/STOP	Х		ВО	Х							X					
HOT WATER PUMP HWP-1 START/STOP			ВО	X							Х					
HOT WATER PUMP HWP-1 STATUS	X	BI		X		X		:			X			-		NOTE 2
LIOT WATER BUIND LINE & STARTISTOR	-	-												-	-	
HOT WATER PUMP HWP-2 START/STOP HOT WATER PUMP HWP-2 STATUS	X	BI	ВО	X		X					X					NOTE 2
HOT WATER FOWE HWF-2 STATOS	^	DI		_^		^					^					NOTE 2
BUILDING HOT WATER SUPPLY (HWS)	X	Al		X					X	Х			Х		SENSOR FAILURE	1
BUILDING HOT WATER RETURN (HWR)		Al		X					X	X			X		SENSOR FAILURE	
				Х												
CHILLED WATER SYSTEM																
CHILLED WATER PUMP CHP-1 START/STOP			ВО	Х							X					
CHILLED WATER PUMP CHP-1 STATUS	Х	BI		X		X					X					NOTE 2
CHILLED WATER RUMP CUR 4 STARTISTOR	-	-		-	-	_		-	-		-			_		
CHILLED WATER PUMP CHP-1 START/STOP CHILLED WATER PUMP CHP-1 STATUS		BI	ВО	X		X	-				X					NOTE 2
CHILLED WATER TOWN ON -1 OTATOS		U				- /										110122
BUILDING CHILLED WATER SUPPLY (CHWS)	Х	Al		X					X	X			X		SENSOR FAILURE	
BUILDING CHILLED WATER RETURN (CHWR)		Al		Х					X	Х			X		SENSOR FAILURE	
		1					,									NOTE 2
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	1								12					_		
NOTE: CONTROLS CONTRACTOR RESPONSIBL	E FOR	R BAC	et, SO	FTWA	RE AN	0 C.C	COLUM	N POINTS. P	ROVIDE	OR IN	TEGRA	ATE AS	REQU	IRED.	SEE CONTROLS DRAWINGS F	OR OTHER DETAILS.
NERAL NOTES   NOTE 1: USE AUX CONTACT CLOSUR															000 TO 45 ETC	
NOTE 2: INSTALL A CURRENT SENSI	NG SV	VITCHI	N THE	SUPP	LY FAI	VFD (	OR STA	ARTER ENCL	OSURE	FOR P	OSITIV	E PRO	OF OF	AIR F	LOW	



ARCHITECTURE PLANNING INTERIORS **GRAPHICS** 

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Florida Department of State **Division of Historical Resources** 

#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA

**Jefferson County Board of County Commissonioners** MONTICELLO, FLORIDA

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REV	DATE	DESCRIPTION

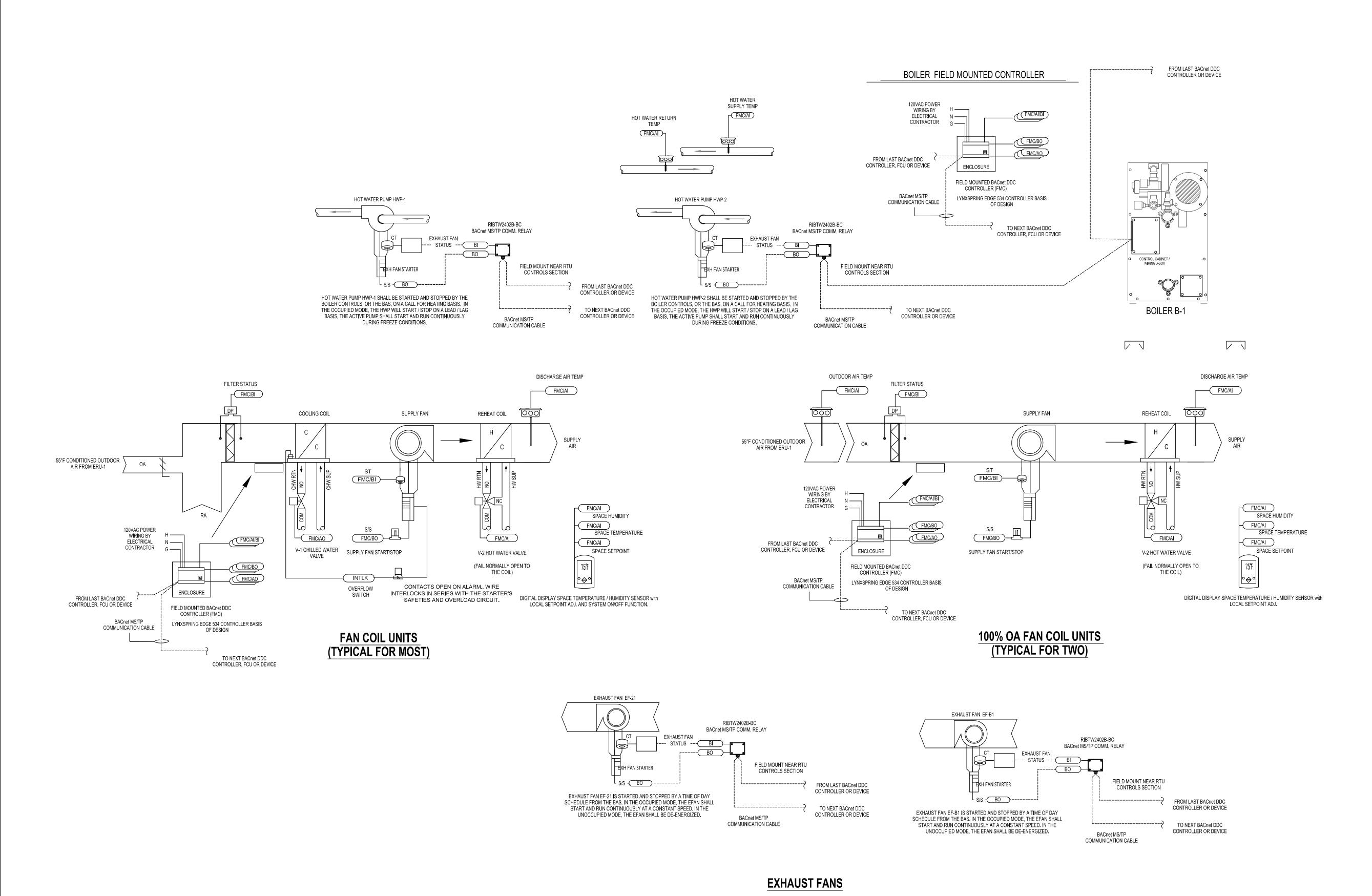
PROJECT PHASE

100% CONSTRUCTION DOCUMENTS

DATE 01 AUGUST 2019	DRAWN BY REW
PROJECT NO	CHECKED BY
65000	REW

SHEET TITLE

REV NO M404

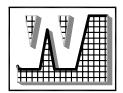


E Marchitects

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PLANNING INTERIORS
GRAPHICS

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Roger E. Walsh, P.E. FLA #36997

Florida Department of State
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#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA
OWNER NAME:

Jefferson County Board of County Commissonioners
MONTICELLO, FLORIDA

REV DATE DESCRIPTION

PROJECT PHASE

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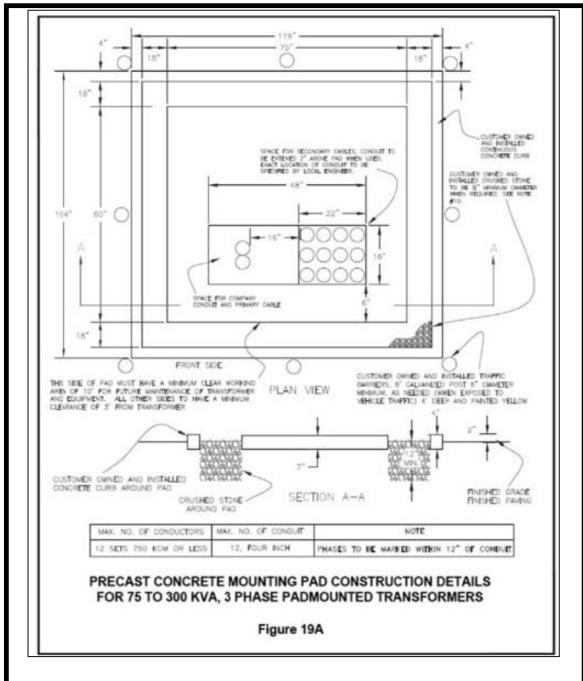
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SHEET TITLE

MECHANICAL CONTROLS

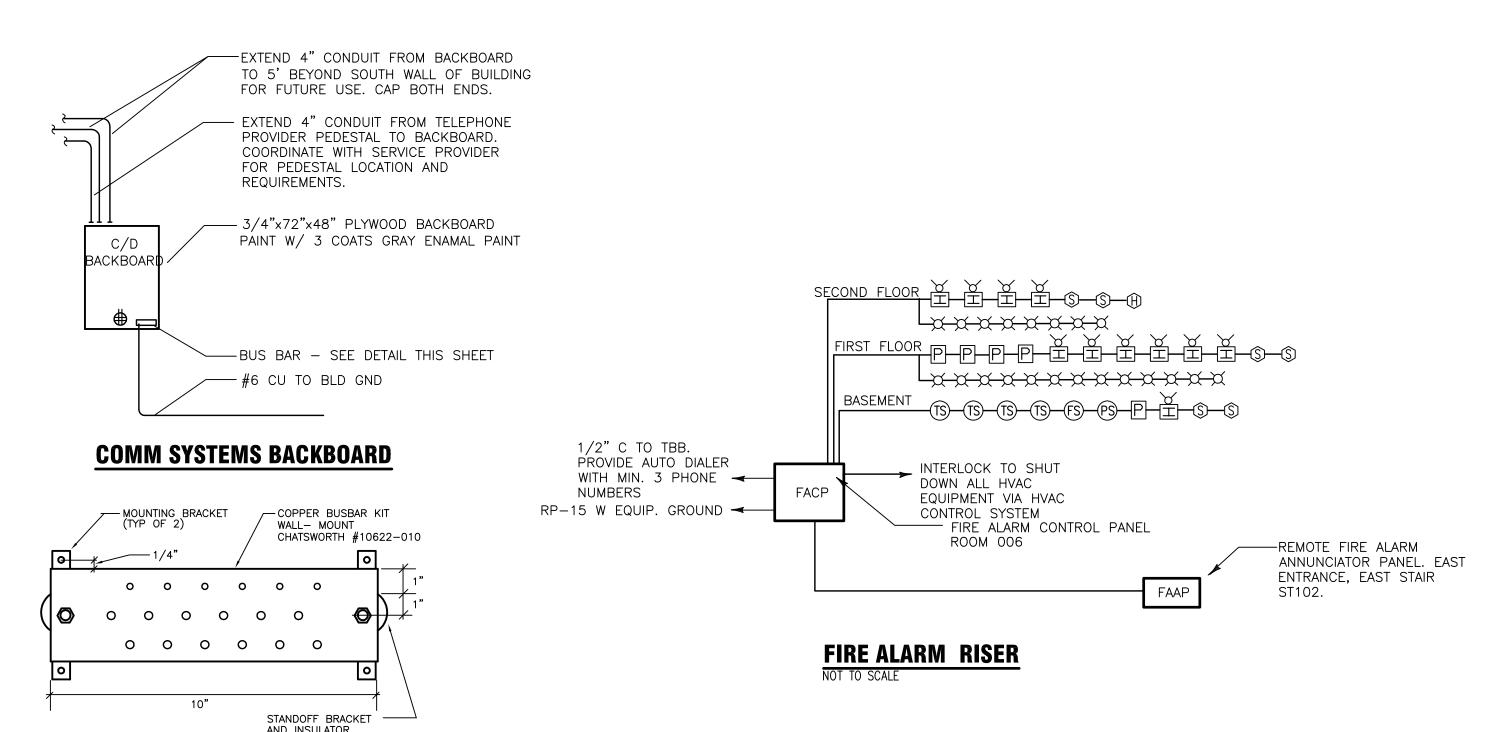
SHEET NO REV NO M405



#### **DUKE POWER TRANFORMER PAD REQUIREMENTS**

CONTRACTOR SHALL COORDINATE WITH DUKE POWER PRIOR TO BID TO ENSURE ARE ASSOCIATED EXPENSES ARE INCLUDED AND LATEST REQUIREMTNS ARE MET.

**GROUND BUSBAR DETAIL** 



#### GENERAL NOTES

1. THIS PROJECT IS THE FINAL PHASE OF A PHASED RENOVATION OF THIS HISTORIC BUILDING. IN THIS PHASE THE GOAL IS TO ACHIEVE COMPLETION OF ALL ELECTRICAL WORK FOR A FULLY OPERATIONAL POWER DISTRIBUTION AND LIGHTING SYSTEM.

2. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND DETAILS. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO BE SCALED.

3. COORDINATE SYSTEMS ROUTING WITH PIPING, HVAC, FIRE SPRINKLER, COMMUNICATIONS AND ELECTRICAL INSTALLATIONS AND WITH BUILDING STRUCTURAL MEMBERS. OFFSET SYSTEMS AND PROVIDE ADDITIONAL BLOCKING AND FRAMING AS REQUIRED TO AVOID CONFLICTS AND INSURE PROPER SYSTEMS INSTALLATION. CONFLICTING WORK NOT COORDINATED WILL BE REMOVED TO THE EXTENT NECESSARY TO ALLOW PROPER INSTALLATION OF ALL SYSTEMS.

4. SEE ARCHITECTURAL DRAWINGS FOR WALL, CEILING, FLOOR AND ROOF CONSTRUCTION AND FIRE RATINGS. WHERE FIRE RATINGS CONFLICTS BETWEEN DRAWINGS THE ARCHITECTURAL SHEETS SHALL RULE.

5. ALL CONSTRUCTION SHALL COMPLY WITH THE FLORIDA BUILDING CODE—BUILDING, FLORIDA BUILDING CODE—PLUMBING, FLORIDA BUILDING CODE—MECHANICAL, ALL 6TH EDITION; NFPA 70, 2014 AND NFPA 72, 2012.

6. DATA AND COMMUNICATIONS SYSTEMS ARE LIMITED TO A BOX AND CONDUIT SYSTEM UNDER THIS CONTRACT. DATA AND COMMUNICATIONS SYSTEMS PROPER WILL BE PROVIDED AND INSTALLED BY OTHERS. WHERE DATA/COMMUNICATIONS OUTLETS ARE INDICATED A SINGLE GANG BOX SHALL BE PROVIDED 18" ABOVE THE FLOOR, OR AT COUNTER TOP LEVEL WHERE PRESENT UNLESS NOTED OTHERWISE, WITH A 1" CONDUIT EXTENDED TO AN ACCESSIBLE ATTIC OR CRAWL SPACE WITH NOT MORE THAN 270 DEGREES OF BEND TOTAL BETWEEN PULL POINTS, TERMINATE WITH BUSHING. PROVIDE A PULL STRING. ADDITIONAL CONDUITS SHALL BE PROVIDED WHERE CALLED FOR ON THE PLANS TO PROVIDE FOR FUTURE EXTENSION OF CABELING BY OTHERS.

SINGLE POLE TOGGLE SWITCH

THREE WAY TOGGLE SWITCH

PHOTOVOLTAIC SWITCH

DUPLEX RECEPTACLE

GFI RECEPTACLE

AS INDICATED

COUNTER

COVER.

GROUND

MOTOR

LOW VOLTAGE

PUSH BUTTON SWITCH

JUNCTION BOX

HOMERUN TO PANEL

3P/30A NF □

-----

DOUBLE DUPLEX RECEPTACLE

AFTER HOURS TIME CLOCK OVERRIDE

TOGGLE SWITCH WITH OCCUPANCY SENSOR

TOGGLE SWITCH WITH ELECTRONIC TIMER

PROPOSED LOCATION FOR SECURITY CAMERA

DUPLEX RECEPTACLE IN FLOOR BOX, HUBBLE AFBS1RBASE WITH

1 DUPLEX RECEPTACLE, ARCHITECT SELECTED COVER

SPECIAL PURPOSE RECEPTACLE - NEMA RATING

DUPLEX RECEPTACLE - MOUNT ABOVE COUNTER

DOUBLE DUPLEX RECEPTACLE - MOUNT ABOVE

GFI RECEPTACLE - MOUNT ABOVE COUNTER

DISCONNECT SWITCH - 3 POLE, 30 AMP,

WIRE IN CONDUIT CONCEALED, 2#12, 1#12G IN

WIRE IN CONDUIT UNDERGROUND, 2#12, 1#12G IN

1/2" CONDUIT UNLESS NOTED OTHERWISE

1/2" CONDUIT UNLESS NOTED OTHERWISE

FLUSH MOUNTED COMBINATION DUPLEX RECEPTACLE AND

COMM/DATA OUTLETS. HUBBLE AFBS1RBASE W/1 DUPLEX

RECPT AND TWO DATA PORTS, ARCHITECT SELECTED

PANEL BOARD OR LOAD CENTER

NON-FUSED INDICATED

DIMMER SWITCH

a — DESIGNATES LIGHT FIXTURE BEING SWITCHED

# WALL MOUNT LIGHT FIXTURE CEILING MOUNTED LIGHT FIXTURE WALL MOUNTED LIGHT FIXTURE CEILING MOUNTEDLIGHT FIXTURE

CEILING MOUNTEDLIGHT FIXTURE

WALL MOUNTED EXIT LIGHT FIXTURE WITH NUMBER
OF FACES AND DIRECTIONAL ARROWS AS INDICATED

CEILING MOUNTED EXIT LIGHT FIXTURE WITH NUMBER
OF FACES AND DIRECTIONAL ARROWS AS INDICATED

EMERGENCY LIGHTING

FIRE ALARM MANUAL PULL STATION

CARBON MONOXIDE DETECTOR

FIRE SPRINKLER SYSTEM FLOW SWITCH

CEILING MOUNTED OCCUPANCY SENSOR WATTSTOPPER MODEL DT-355

REMOTE FIRE ALARM ANNUNCIATION PANEL

SHIÉLDED CAT-5E FROM C/D ROOM

DAT/COMMUNICTIONS OUTLET, SEE GENERAL NOTE 6

FIRE SPRINKLER PRESSURE SWITCHAT DRY PIPE SYSTEM.

FIRE SPRINKLER TAMPER SWITCH.

FIRE ALARM CONTROL PANEL

VIDEO OUTLET

WEATHERPROOF

LOAD CENTER

ELEVATOR NOTES

NEW WORK NOTES

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

CIRCUIT STATUS COORDINATION NOTE

COMMUNICATIONS/DATA

HEAT DETECTOR

EMERGENCY LIGHTING

CEILING MOUNTED BOX FOR FUTURE LIGHT FIXTURE

ELECTRICAL LEGEND

COMBINATION AUDIO/VISUAL FIRE ALARM DEVICE

VISUAL FIRE ALARM DEVICE

CEILING MOUNT SMOKE DETECTOR —
A = AUXILIARY CONTACTS

(C)

TS

03)

FACP

FAAP

 $\langle \nabla \rangle$ 

AFF

AFG

C/D

E Marchitects

ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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11"x17" SHEETS ARE PLOTTED AT ½ THE SCALE NOTED ON THESE DRAWINGS.



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Roger E. Walsh, P.E. FLA #36997

Florida Department of State
Division of Historical Resources

#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA

OWNER NAME:

Jefferson County Board of
County Commissonioners
MONTICELLO, FLORIDA

REV	DATE	DESCRIPTION

PROJECT PHASE

100% CONSTRUCTION DOCUMENTS

DATE
01 AUGUST 2019

PROJECT NO
65000

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REW

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REW

SHEET TITLE

ELECTRICAL NOTES
LEGEND AND
LIGHTING SCHEDULE

SHEET NO

REV NO

	PANEL MP CONDUCTOR STATUS SCHEDULE  Panel MP has not been installed but exists on site with indicated breakers									
ITEM	CRKT#	IDENTIFICATION	STATUS	REQUIRED WORK						
M1	MP-1,3,5	PANEL HP FEEDER	Panel HP mounted in Mechanical Room 007. Panel HP interior and dead front hot installed but on site. Feeder conduit extended from Panel HP to northeast corner of crawl space adjacent to Elec/Mech Room 000.	Mount Panel MP per contract documents. Extend feeder conduit from Panel MP to existing conduit extent in building crawl space. Reposition existing feeder conduit in Mech Room 007 to avoid conflict with HVAC equipment and duct runs by dropping conduit position to lower position on west wall of Mech Room 007. Extend feeder from Panel MP to Panel HP per plans and specs.						
M2	MP-2,4,6	PANEL YP FEEDER	Buried conduit extended from crawl space to Panel YP mounted on frame at exterior equipment yard.	Extend feeder conduit from Panel MP to existing conduit extent. Extend feeder from Panel MP to Panel YP per plans and specs. Install Panel YP interior and dead front.						
МЗ	MP-7,9,11	PANEL LP FEEDER	No work accomplished. Complete panel with indicated breakers on site.	Mount panel LP. Extend feeder conduit and conductors from Panel MP to Panel LP per plans and specs.						
M4	MP-10,12	PANEL RP FEEDER	No work accomplished. Complete panel with indicated breakers on site.	Mount Panel RP. Extend feeder conduit and conductors from Panel MP to Panel RP per plans and specs.						
M5	MP-14,16	ELEVATOR	No work accomplished.	Extend circuit from Panel MP per plans and specs.						

				ANEL LP CONDUCTOR STATUS SCHEDULE t been installed but exists on site with indicated breakers.	
ITEM	CRKT#	EXIST CRKT TAG	IDENTIFICATION	STATUS	REQUIRED WORK
L1 L2	LP-1 LP-2	LP-2	LIGHTS: BASEMENT LIGHTS: BASEMENT	No work accomplished. Circuit extended from coil in northwest corner of	Extend circuit per plans and specs.  Extend circuit per plans and specs.
_				Circuit extended from coil in northwest corner of crawl space to coil where indicated on drawings.  No work accomplished.  Existing circuit tag LP-5 extended from coil in northwest corner of crawl space to four J-box's in general location of lighting fixtures "H" in Room 103 with sufficient MC cable coiled to allow remounting of J-boxes in new dropped ceiling frame work.  Existing circuit tag LP-7 extended from coil in northwest corner of crawl space to four J-box's in general location of lighting fixtures "H" in Room 104 with sufficient MC cable coiled to allow remounting of J-boxes in new dropped ceiling frame work.  Existing circuit tag LP-8 extended from coil in northwest corner of crawl space to four J-box's in general location of lighting fixtures "H" in Room 105 with sufficient MC cable coiled to allow remounting of J-boxes in new dropped ceiling fixtures "H" in Room 105 with sufficient MC cable coiled to allow remounting of J-boxes in new dropped ceiling frame work.  Existing circuit tag LP-9 extended from coil in northwest corner of crawl space to four J-box's in general	
L6	LP-6	LP-6	LIGHTS: RM 110, 111, 112, 113	location of lighting fixtures "H" in Room 104 with sufficient MC cable coiled to allow remounting of J-boxes in new dropped ceiling frame work.  Circuit extended from coil in northwest corner of crawl space to four J-box's in general location of lighting fixtures with sufficient MC cable coiled to allow remounting of j-boxes in new dropped ceiling	Modify the lighting layout in this area to accommodate the new floor plan and indicated lighting plan.
L7	LP-7		LIGHTS: CORRIDOR EXHIBIT TRACK	frame work as in the spaces above.  Exiting LP-7 circuit load to be transferred to LP-5, see above.	Extend to new load per plans and specs.
L8	LP-8		LIGHTING LIGHTS: 2 <sup>NO</sup> FLOOR	Exiting LP-8 circuit load to be transferred to LP-5,	Extend to new load per plans and specs.
L9	LP-9		SPARE	see above.  Exiting LP-9 circuit load to be transferred to LP-5, see above.	
L10	LP-10		ELEV. CAB LIGHTS	Exiting LP-10 circuit load to be transferred to LP-11, see below.	Extend to new load per plans and specs.
111	LP-11		LIGHTS: SECOND FLOOR EXHIBIT ROOMS	Existing circuit tag LP-10 extended from coil in northwest corner of crawl space to four J-box's in general location of lighting fixtures "H" in Room 208 with sufficient MC cable coiled to allow remounting of J-boxes in new dropped ceiling frame work.  Existing circuit tag LP-11 extended from coil in northwest corner of crawl space to four J-box's in general location of lighting fixtures "H" in Room 209 with sufficient MC cable coiled to allow remounting of J-boxes in new dropped ceiling frame work.	Pull existing MC cable back clear of east wing to allow for reframing of east wing flooring. After reframing is complete extend LP-11 similar to described above FOR LP-5 in each of rooms 208 and 209 through the LCP relay indicated on the lighting plan.
L12	LP-12	LP-12	LIGHTS: COURTROOM EAST	Circuit extended from coil in northwest corner of crawl space to three J-boxes in general location of the three north most Type L1 lighting fixtures with sufficient MC cable coiled to allow remounting of J- boxes in new dropped ceiling frame work.	Modify circuit to accommodate all Type L1 and the designated Type T fixtures as indicated on the lighting plan.
L13	LP-13	LP-13	LIGHTS: 1 <sup>st</sup> FL COMMON	Circuit extended from coil in northwest corner of crawl space to eight J-boxes in general location of lighting fixtures in Entry Foyer 109 and extends to the east into the east stair foyer to two additional j-boxes with sufficient MC cable coiled to allow remounting of J-boxes in new dropped ceiling frame work. Circuit is cut at the doorway into the west stair foyer where indicated on the drawings.	Extend circuit through lighting control panel to panel and remount J-box in new ceiling framing in Entry Foyer 109. Pull existing MC cable back clear of east wing to allow for reframing of east wing flooring. After reframing is complete extend circuit per plans and specs. Extend new MC cable from most westerly J-box in Entry Foyer 109 into west stair foyer as indicate on the plans.
L14	LP-14	LP-14	LIGHTS: COURTROOM	Circuit extended from coil in northwest corner of crawl space to three J-boxes in general location of the three center Type L1 lighting fixtures with sufficient MC cable coiled to allow remounting of J- boxes in new dropped ceiling frame work.	Modify circuit to accommodate Type W and the designated Type T fixtures as indicated on the lighting plan.
L15	LP-15		SPARE	Circuit extended from coil in northwest corner of crawl space to three J-boxes in general location of the three south most Type L1 lighting fixtures with sufficient MC cable coiled to allow remounting of J-boxes in new dropped ceiling frame work.	Incorporate existing wiring to the extent possible to support the work on LP-12 and LP-14 leaving this circuit a spare.
L16	LP-17	LP-17	LIGHTS: EXTERIOR	Circuit extended from coil in northwest corner of crawl space to J-boxes location of Type S lighting fixtures.	Extend circuit all indicated fixtures through lighting control panel to panel per plans and specs.

ITEM	CRKT#	IDENTIFICATION	STATUS	REQUIRED WORK
R1	RP-1	ELEV. SUMP PUMP	No work accomplished.	Extend circuit per plans and specs.
R2	RP-2	RECEPT: ELEV. PIT	No work accomplished.	Extend circuit per plans and specs.
R3	RP-3	RECEPT: BASEMENT	No work accomplished.	Extend circuit per plans and specs.
R4	RP-4	RECEPT: BASEMENT	No work accomplished.	Extend circuit per plans and specs.
R5	RP-5	RECEPT: COMM BOARD	No work accomplished.	Extend circuit per plans and specs.
R6 RP-6 RECEPT: 1 <sup>ST</sup> FL COMMON			Circuit coiled in northwest corner of crawl space and roughed-in in east stair foyer and Entry foyer 109.	Extend circuit per plans and specs to panel and from west most receptacle in Entry Foyer 109 into west stair foyer. Pull existing MC cable indicated back clear of east wing to allow for reframing of east wing flooring. After reframing is complete extend circuit per plans and specs.
R7	RP-7	RECEPT: EXHIBIT ROOM 103	Circuit coiled in northwest corner of crawl space and roughed-in per design in space.	Extend circuit per plans and specs to panel.
R8	RP-8	RECEPT: OFFICE 113	Circuit coiled in northwest corner of crawl space and roughed-in like Exhibit Room 103 to accommodate previous floor plan.	Extend circuit per plans and specs to panel. Modify existing layout to conform to new plan.
R9	RP-9	RECEPT: EXHIBIT ROOM 104	Circuit coiled in northwest corner of crawl space and roughed-in per design in space.	Extend circuit per plans and specs to panel.
R10	RP-10	RECEPT: EXHIBIT ROOM 105	Circuit coiled in northwest corner of crawl space and roughed-in to first receptacle where indicated.	Extend circuit to panel. Pull existing MC cable back clear of east wing to allow for reframing of east wing flooring. After reframing is complete extend circuit per plans and specs.
R11	RP-11	RECEPT: EXHIBIT ROOM 106	Circuit coiled in northwest corner of crawl space and roughed-in to first receptacle where indicated.	Extend circuit to panel. Pull existing MC cable back clear of east wing to allow for reframing of east wing flooring. After reframing is complete extend circuit per plans and specs.
R12	RP-12	RECEPT: EXHIBIT ROOM 208	Circuit coiled in northwest corner of crawl space and roughed-in to first receptacle where indicated.	Extend circuit to panel. Pull existing MC cable back clear of east wing to allow for reframing of east wing flooring. After reframing is complete extend circuit per plans and specs.
R13	RP-13	RECEPT: EXHIBIT ROOM 209	Circuit coiled in northwest corner of crawl space and roughed-in to first receptacle where indicated.	Extend circuit to panel. Pull existing MC cable back clear of east wing to allow for reframing of east wing flooring. After reframing is complete extend circuit per plans and specs.
R14	RP-14	RECEPT: COURT ROOM	Circuit coiled in northwest corner of crawl space and roughed-in per design in space.	Extend circuit per plans and specs to panel.
R15	RP-15	FACP	No work accomplished.	Extend circuit per plans and specs.

	All relays to be provided with dimming capabilities									
RELAY TAG 1 2 3 4 5 6 7 8 9 10	DUTY	RELAY TAG	DUTY							
1	1 <sup>st</sup> floor toilet rooms	17	Spare							
2	1 <sup>st</sup> floor corridors	18	Jury Room Pendant lights							
3	Rm 103 Can Lights	19	Jury Room Can lights							
4	Rm 103 Pendant lights	20	Court Room East Can lights							
5	Rm 104 Can Lights	21	Court Room East Pendant lights							
6	Rm 104 Pendant lights	22	Court Room West Can lights							
7	Rm 105 Can Lights	23	Court Room west Slot lights							
8	Rm 105 Pendant lights	24	Rm 208 Can lights							
9	Rm 106 Can Lights	25	Rm 208 Pendant lights							
10	Rm 106 Pendant lights	26	Rm 209 Can lights							
11	Spare	27	Rm 209 Pendant lights							
12	Spare	28	Exterior Bollards							
13	Spare	29	Exterior Soffit lights							
14	Spare	30	Exterior Flame lights							
15	Spare	31	Exterior Side Entrance lights							
16	Spare	32								

LIUN	TING FIXTURE SC	UENOTE				
TYPE	MANUFACTURER	CATALOG No.		LAMPS	MOUNTING	REMARKS
			No.	TYPE	CEILING OR CONDUIT	DDOWNE WITH INTEGRAL GOOD AND
Α	LUMINAIRE LED	ESF18-18"-50W-3500K-M7-A20V-CP-BLK		50 WATT LED	PENDANT TO BELOW DUCT AS NECESSARY	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR. PROVIDE UNIT WITH EMB310 WHERE "E" DESIGNATION IS INCLUDED
В	WILLIAMS	75S-2-L20/835-DIM-UNV		15 WATT LED	WALL	
С	SIGNIFY	VCXL-14-NW-G1-8		14 WATT LED	WALL	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING POSITION.
D1	COPPERSMITH	STATE STREET SS44-W	_	8 WATT LED	WALL	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING POSITION.
D2	COPPERSMITH	STATE STREET SS44-W-CHM-AC3	_	8 WATT LED	CHAIN	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING POSITION.
F	LUMINAIRE LED	SM13-4-DIM-5000K-120-D1- 4-GRY-EMB10ST-CTX	_	54 WATT LED	CEILING	
G	LUMINAIRE LED	VPF84-25W-5000K-DIM-120- CP-WHT-DIM-EMB310		27 WATT LED	CEILING	
Н	CAMMAN	C7000-14-LD-35K-CLV-1-0G-PBR	_	15 WATT LED	CEILING SEE REMARK	PENDANT MOUNTED AT STAIR MID LANDINGS AT XX'-X" ABOVE LANDING
J	LINTON	LCMPD7RBZ-UE-D10-T35	_	39 WATT LED	CEILING	E/HOHYO
K	CAMMAN	W412-24-35K-CLV-1-WM-PC		12 WATT LED	HORIZONTAL WALL	
L1	CAMMAN	P4270-30-LN-35K-CLV		80 WATT LED	PENDANT XX AFF	
L2	CAMMAN	P4270-24-LN-35K-CLV		50 WATT LED	PENDANT XX AFF	
М	LIGHTHEADED	2-120-T-01-WHO-BR040-35-8018 WITH DB4-IC1A-R	_	20 WATT LED	CEILING	
Ν	FINELIGHT	HP-2 D-15'-H-835-F-120V- FA-FE-SC-C4-0B0		106.5 WATT LED	PENDANT 9'6" AFF	
P	FINELIGHT	HP-2 D-8'-H-835-F-120V- FA-FE-SC-C4-0B0		56.8 WATT LED	PENDANT 9'6" AFF	
R	FINELIGHT	HP-2 D-12'-H-835-F-120V- FA-FE-SC-C4-0B0		85.2 WATT LED	PENDANT 9'6" AFF	
S	KIRLIN	LSS-13560-6500L-120V-27K FA-FE-SC-C4-0B0		74 WATT LED	CEILING	
Т	LIGHTHEADED	2-125-T-01-WHO-BRO40-35-8023 WITH D4B-IC1A-R-T-BR02300-P-120	_	20 WATT LED	CEILING	
U	FINELIGHT	HP-2 WM D-8'-H-835-F- 120V-MB-FE-SC-0B0		56.8 WATT LED	WALL 9'6" AFF	
V	WE-EF	ZFY230 LED-FT 638-6323 RAL8019		20 WATT LED		
W	FINELIGHT	HP-2R-23'-8" -H-835-RG-LHE-120V-FE-SC	-SF	142 WATT LED	CEILING RECESSED	
Y	INTENSE LIGHTING	ITP20-L1-358-W-NF		14 WATT/HD LED	CEILING TRACK	PROVIDE TRACK AS INDICATED AND APPURTENANCES AS NECESSARY
⊗	BEGHELLIUSA	FTZ-HT-LR-X-U-120 -PLUS-BB-120SA	_	LED LITE PLATE	UNIVERSAL MOUNTING	NUMBER OF FACES AND CHEVRONS VARY
$\Im$	PHILIPS CHLORIDE	VLLU2	2	2 WATT LED	WALL MOUNT	EMERGENCY LIGHT



ARCHITECTURE PLANNING INTERIORS **GRAPHICS** 

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Roger E. Walsh, P.E. FLA #36997

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# HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA

OWNER NAME:

Jefferson County Board of
County Commissonioners
MONTICELLO, FLORIDA

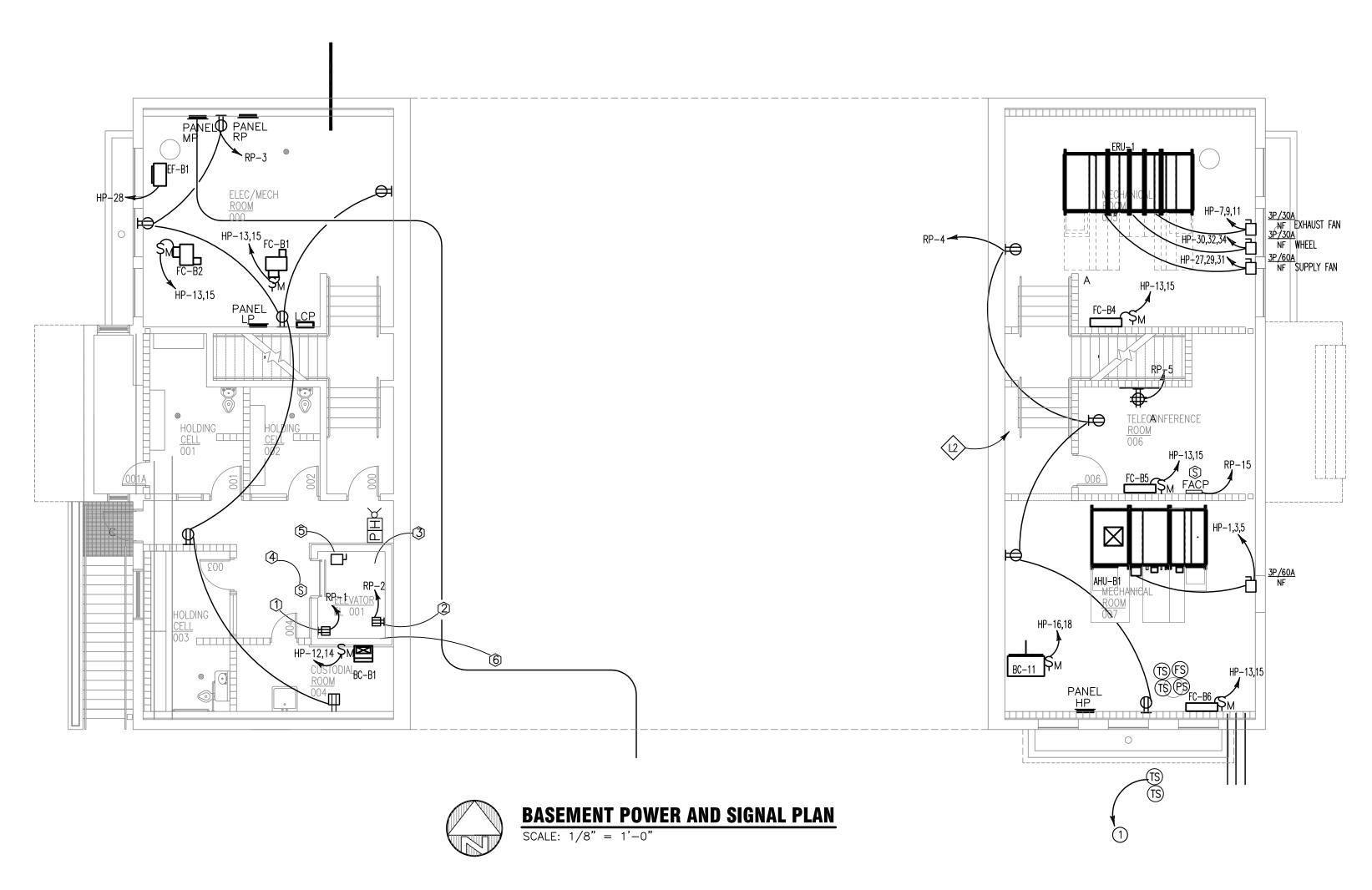
MONTICELL	.O, FLORIDA	
REV	DATE	DESCRIPTION

PROJECT PHASE 100% CONSTRUCTION DOCUMENTS

DRAWN BY REW 01 AUGUST 2019 PROJECT NO CHECKED BY REW

SHEET TITLE

**ELECTRICAL CIRCUIT CONDUCTOR** STATUS SCHEDULE



#### **ELEVATOR CONTROL ROOM AND SHAFT PIT NOTES:**

- ① PROVIDE GFI RECEPTACLE FOR SUMP PUMP CONNECTION. CIRCUIT RP-1.
- (2) PROVIDE GFI RECEPTACLE 30" AFF AND EXTEND CIRCUIT TO RECEPTACLE AT TOP OF SHAFT. CIRCUIT RP-2
- PROVIDE 3 LIGHT FIXTURES IN ELEVATOR PIT AND 1 LIGHT FIXTURE AT THE TOP OF THE ELEVATOR SHAFT ON A COMMON SWITCHED CIRCUIT. PROVIDE SWITCH AT POINT OF PIT ENTRY. SEE LIGHTING PLAN.
- (4) PROVIDE SMOKE DETECTOR WITH AUX. CONTACT FOR USE WITH ELEVATOR CONTROL.
- (5) 3-#3 THWN CU & 1-#8 CU GND IN 1"C. PROVIDE 100A/3P HD DISCONNECT FUSED @ 90 AMPS RK-5 WITH REJECTION CLIPS. REFER TO ELEVATOR EQUIPMENT INSTALLATION INSTRUCTIONS FOR POINT OF INSTALLATION.
- (6) ALL CONDUIT EXITING ELEVATOR SHAFT SHALL PASS INTO THE EXISTING CRAWL SPACE ONLY.

#### **NEW WORK NOTES:**

THIS SHEET ONLY

- 1) PROVIDE NEW TAMPER SWITCHES AT EXISTING FIRE SPRINKLER BACKFLOW PREVENTER BEYOND FAR SIDE OF THE DRIVEWAY.
- PROVIDE LIGHTLEEDER LIGHTING CONTROL PANEL MODEL LL32S WITH RELAY MODEL R40-1-32. PROVIDE NECESARY DIMMING CARDS MOUNTED INTHE PANEL. PROVIDE 7" PROGRAMMABLE LCD SCREEN IN IN OFFICE 112 AND IN THE COURTROM IN THE LOCATION INDICATED. PANEL AND LCD'S SHALL BE PROGRAMMED PER THE OWNERS DIRECTION.



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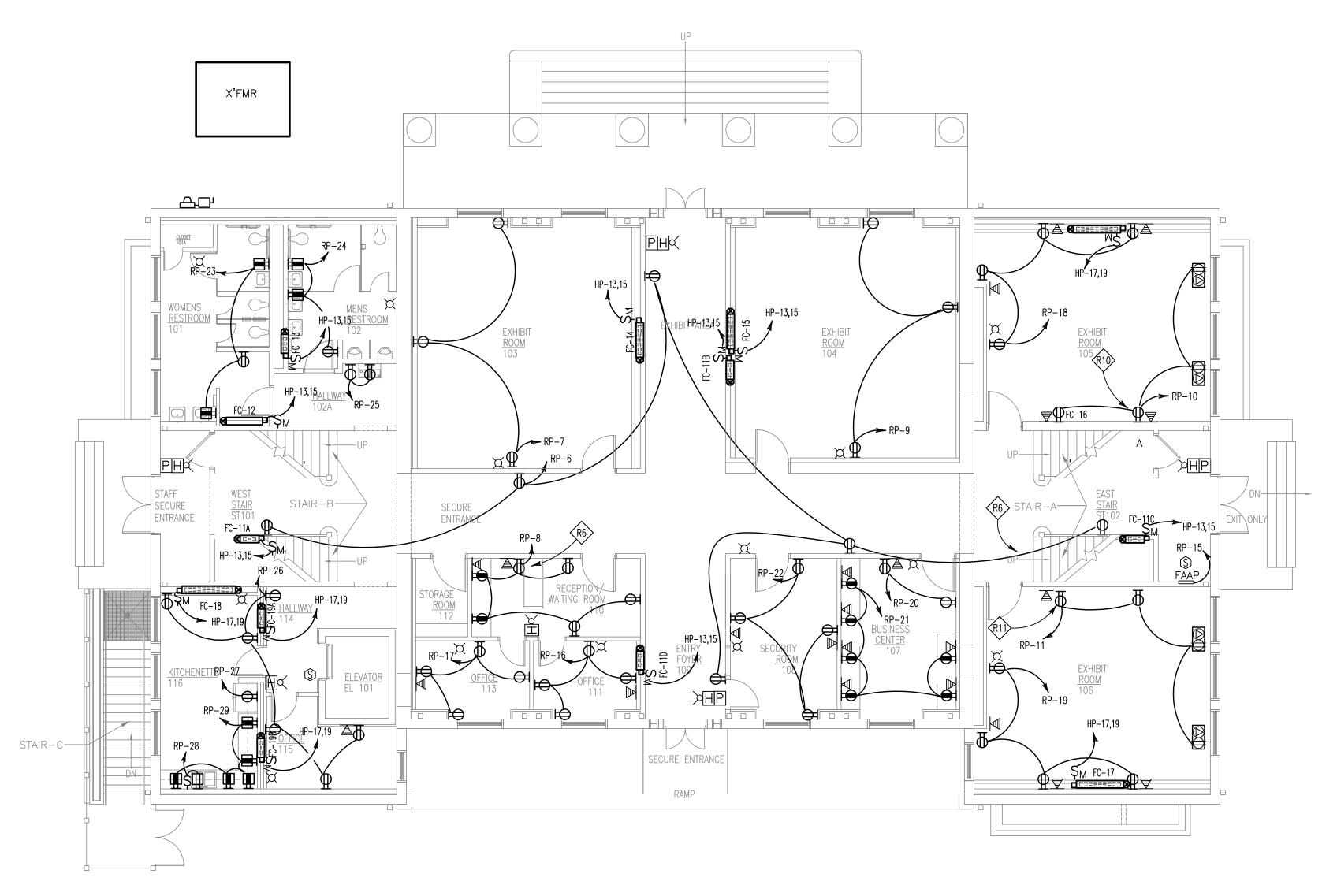
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BASEMENT POWER & SIGNAL PLAN

SHEET NO







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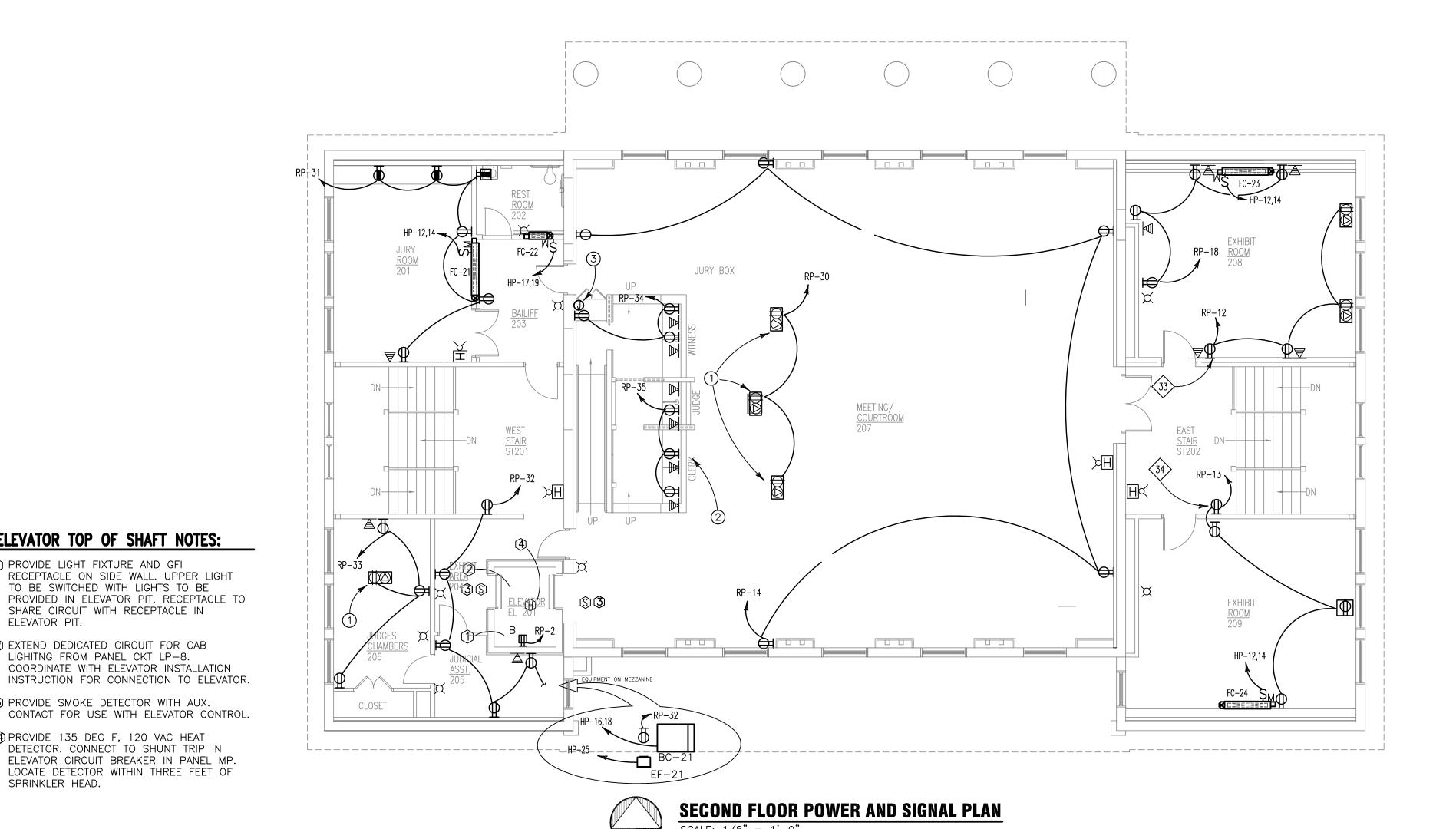
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SHEET TITLE

FIRST FLOOR POWER AND SIGNAL PLAN

REV NO **E202** 



**ELEVATOR TOP OF SHAFT NOTES:** 

SHARE CIRCUIT WITH RECEPTACLE IN

② EXTEND DEDICATED CIRCUIT FOR CAB LIGHITNG FROM PANEL CKT LP-8.

3 PROVIDE SMOKE DETECTOR WITH AUX.

PROVIDE 135 DEG F, 120 VAC HEAT DETECTOR. CONNECT TO SHUNT TRIP IN

(1) PROVIDE LIGHT FIXTURE AND GFI

ELEVATOR PIT.

THIS SHEET ONLY

(1) FIELD VERIFY PLACEMENT WITH ARCHITECT.

**NEW WORK NOTES:** 

- 2 COORDINATE PLACEMENT OF ALL COMPONENTS IN COMMISSIONERS DAIS WITH ARCHITECT.
- 3 PROVIDE 1-6X6X3" DEEP BOX WITH 2-2" CONDUITS ALONG WITH ONE RECEPTACLE CONCEALED WITHIN THE CASE WORK FOR FUTURE SYSTEM. COORDINATE PLACEMENT WITH ARCHITECT.



ARCHITECTURE PLANNING INTERIORS GRAPHICS

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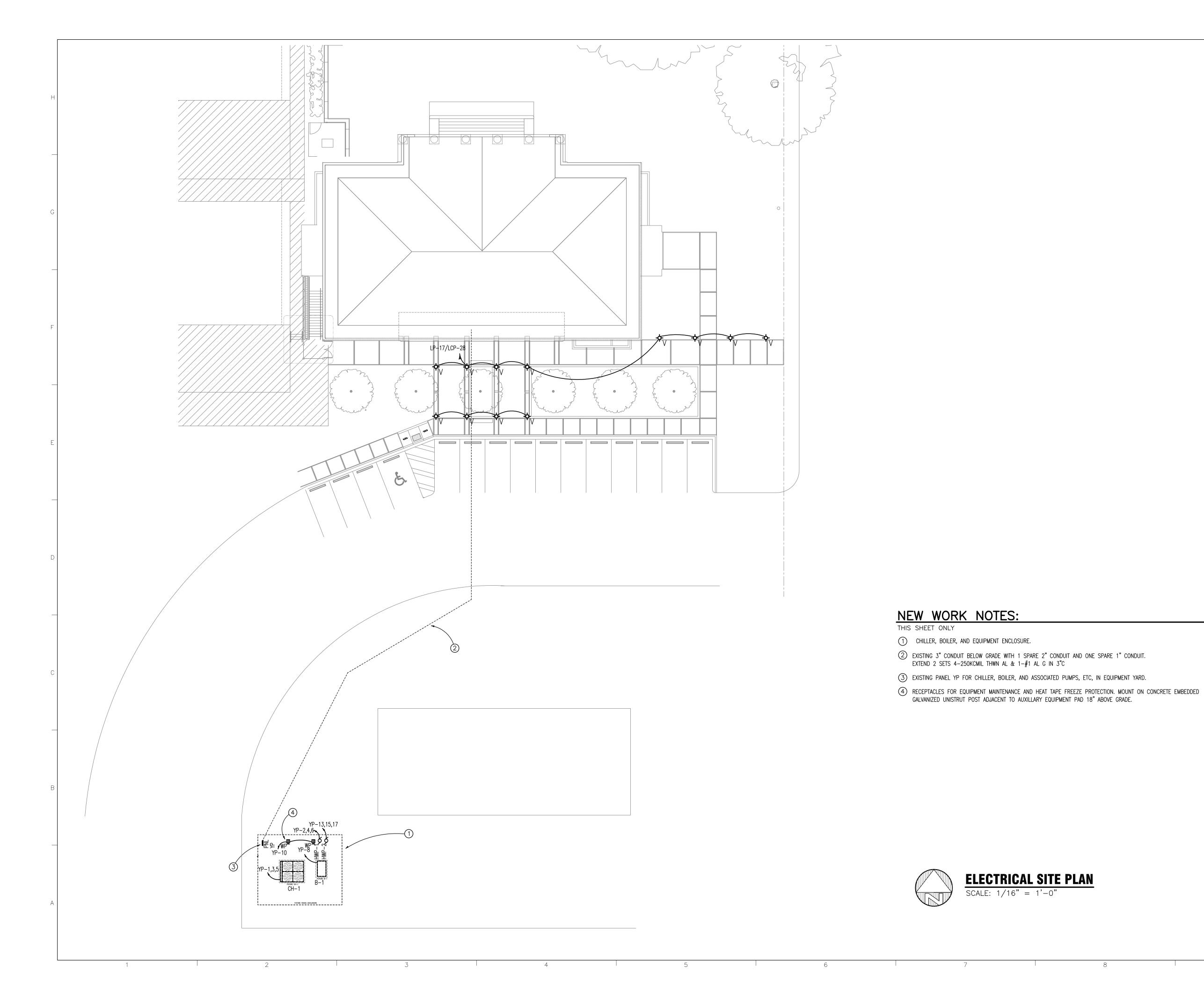
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SECOND FLOOR **POWER AND SIGNAL** PLAN

SHEET NO **E203** 





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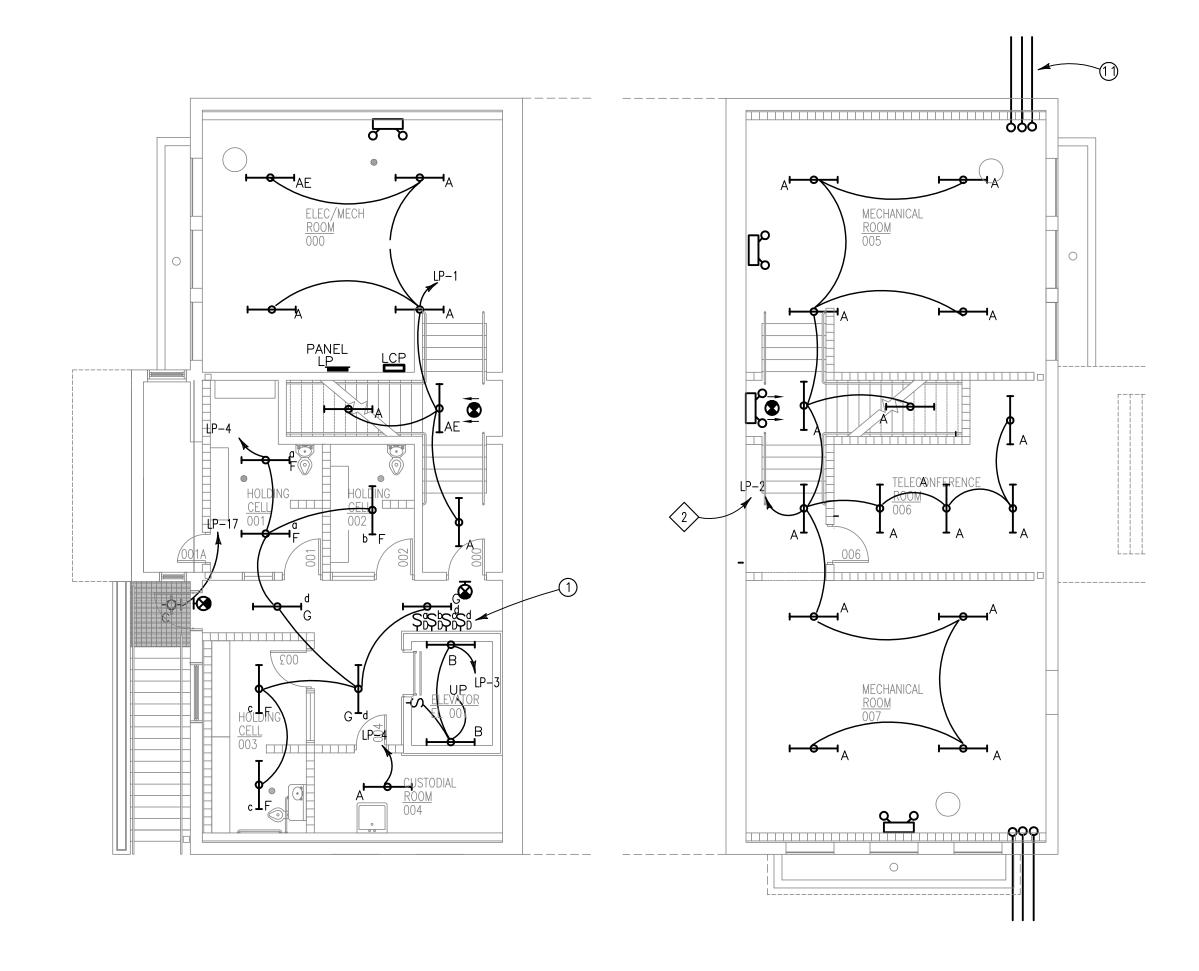
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SHEET TITLE

**ELECTRICAL** SITE PLAN

**E204** 

DRAWN BY REW





THIS SHEET ONLY

① DIMMER SWITCHES FOR DESIGNATED FIXTURE SWITCH LEGS.



ARCHITECTURE PLANNING INTERIORS **GRAPHICS** 

ELLIOTT MARSHALL INNES P.A. (EMI prohitects)
251 E. 7TH AVENUE TALLAHASSEE FL 32303
(850) 222 - 7442
www.emiarch.com
(ICENSE #1 AA C000409 IB C000153

NOTE: 11"x17" SHEETS ARE PLOTTED AT  $\frac{1}{2}$  THE SCALE NOTED ON THESE DRAWINGS.



r.e.Walsh Engineering, Inc. 3073 Hickory Wind Road, Tallahassee, Florida 32317 Phone (850) 656-3800 C.A.#00009540

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Roger E. Walsh, P.E. FLA #36997

Florida Department of State **Division of Historical Resources** 

# HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA

OWNER NAME:

Jefferson County Board of
County Commissonioners
MONTICELLO, FLORIDA

REV	DATE	DESCRIPTION

PROJECT PHASE

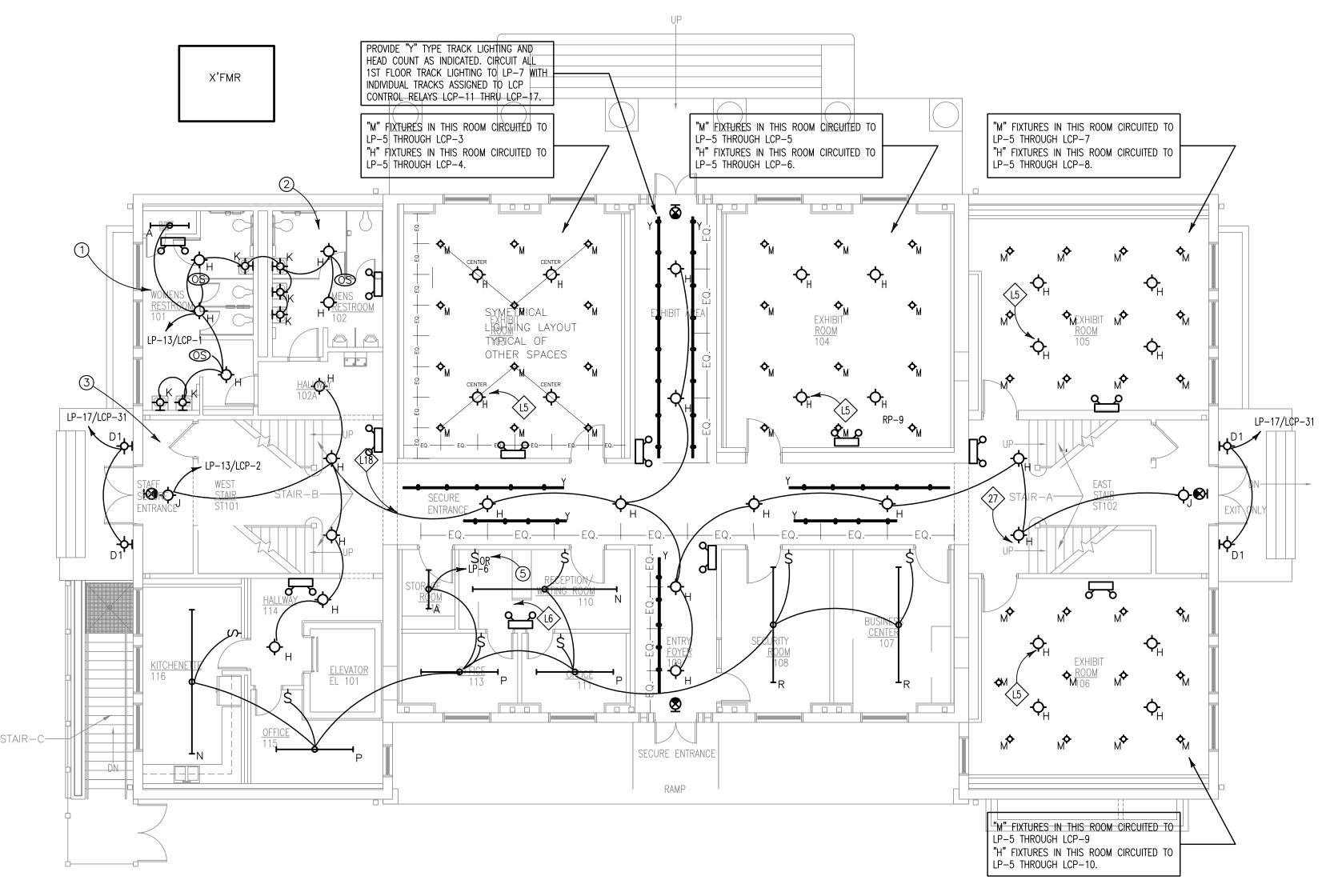
100% CONSTRUCTION DOCUMENTS

DRAWN BY REW 01 AUGUST 2019 PROJECT NO CHECKED BY REW

SHEET TITLE

**BASEMENT FLOOR** LIGHTING PLAN

REV NO





THIS SHEET ONLY

- (1) WOMENS TOILET FIXTURES CONTROLLED THROUGH LCP-1 AND DUAL OCCUPANCY SENSORS WIRED IN PARRALLEL.
- MENS TOILET FIXTURES CONTROLLED THROUGH LCP-1 AND OCCUPANCY SENSOR.
- 3 FIRST AND SECOND FLOOR COMMON AREAS CONTROLLED THROUGH LCP-2.
- OFFICES CONTROLLED THROUGH INTEGRAL OCUPANCY SENSOR AND WALL SWITCH
- THIS SWITCH OVERRIDES LIGHTING CONTROL PANEL TIME CLOCK TO PLACE BUILDING BACK INTO OCCUPIED MODE FOR A PROGAMMABLE ADJUSTABLE PERIOD.



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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# Florida Department of State Division of Historical Resources

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Jefferson County Board of County Commissonioners
MONTICELLO, FLORIDA

WONTICELL	.o, i Lonioa	
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PROJECT PHASE

100% CONSTRUCTION DOCUMENTS

DATE
01 AUGUST 2019

PROJECT NO
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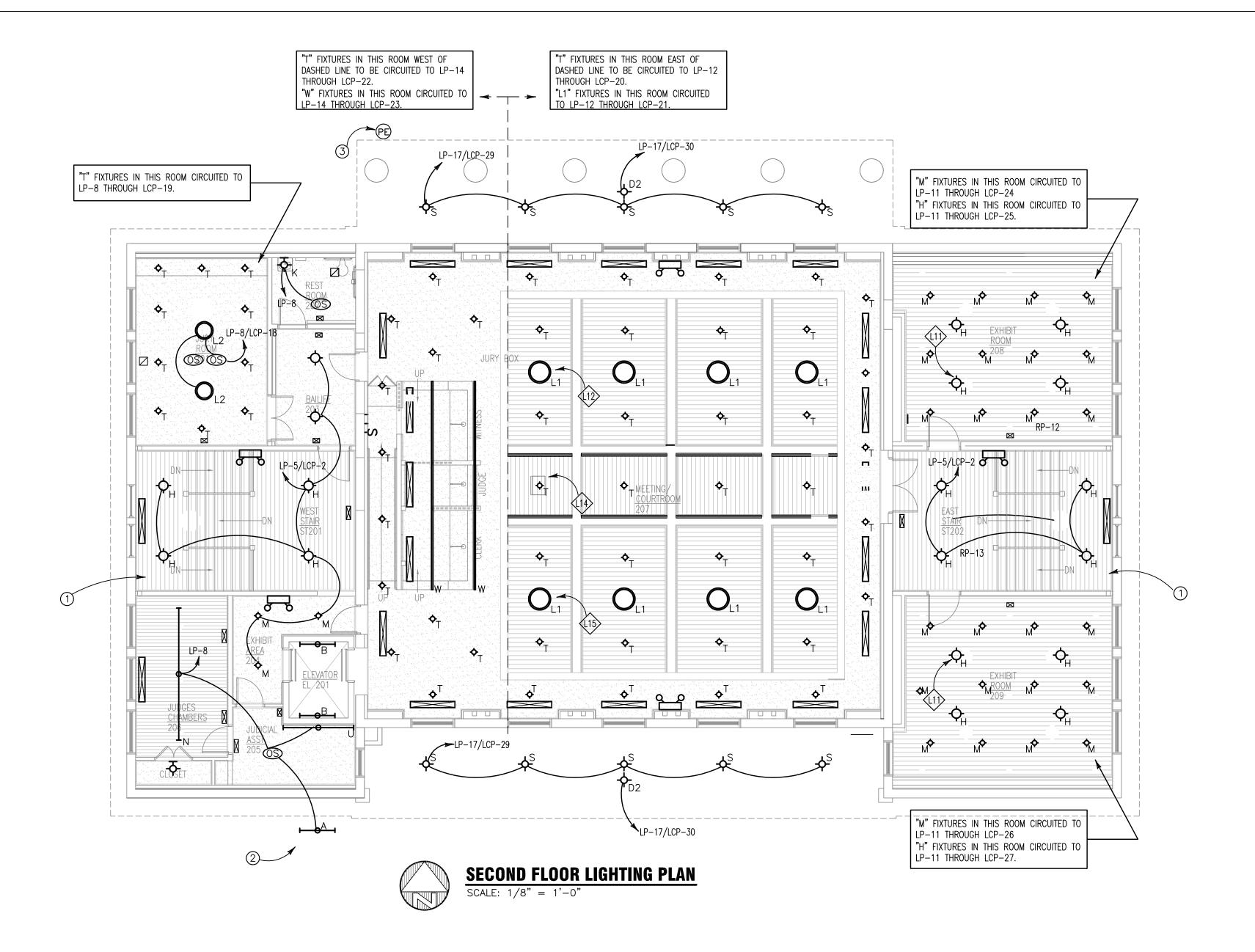
SHEET TITLE

FIRST FLOOR LIGHTING PLAN

SHEET NO **E206** 

KEV

REV NO



THIS SHEET ONLY

- 1) FIRST AND SECOND FLOOR COMMON AREAS CONTROLLED THROUGH LCP-2.
- 2 LIGHTING FIXTURE LOCATED IN EQUIPMENT MEZZANINE ABOVE ROOM 205, REFER TO ARCHITECTURAL SHEETS. COORDINATE PLACEMENT WITH MECHANICAL EQUIPMENT TO MAXIMIZE EFFECTIVENESS.
- MOUNT PHOTOCELL ON FACE OF GABLE AND EXTEND TO LIGHTING CONTROL PANEL.



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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County Commissonioners

MONTICELLO FLORIDA

MONTICELLO, FLORIDA										
REV	DATE	DESCRIPTION								

PROJECT PHASE

100% CONSTRUCTION DOCUMENTS

DATE
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PROJECT NO
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REW

SHEET TITLE

SECOND FLOOR LIGHTING PLAN

SHEET NO

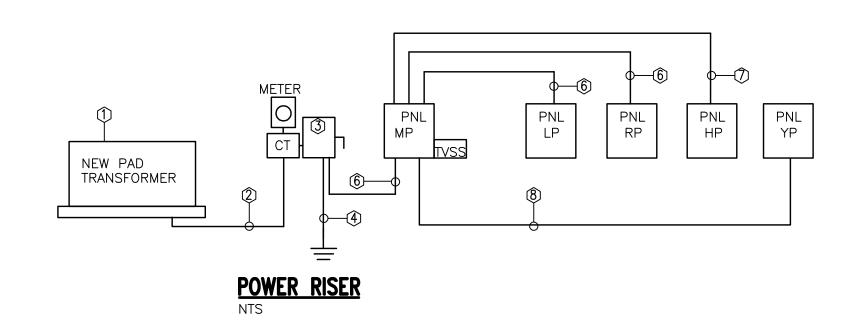
REV NO

#### **GENERAL NOTES**

PANELS ARE EXISTING AS INDICATED. CIRCUITS ARE AT VARIOUS STAGES OF COMPLETNESS AS INDICATED ON THE CIRCUIT CONDUCTOR STATUS SCHEDULES ON SHEET E302. PROVIDE NEW BREAKERS IN EXISTING PANELS WHERE INDICATED IN SCHEDULES BELOW.

EXISTING PANEL: MP					NEMA 1							SEF	TING: RVICE: UNTING:	600A, 30C, MCB, 65,000 A 120/208V. 3P. 4W. SURFACE MOUNTED		)O A.I.(		
CKT NO.	IDENTIFICATION	WIRE	LOAD TYPE CODE	A KVA LOAD	B KVA LOAD	C KVA LOAD	C.B. TRIP AMPS	# OF POLES	# OF POLES	C.B. TRIP AMPS	A KVA LOAD	B KVA LOAD	C KVA LOAD	LOAD TYPE CODE	WIRE	IDENTIFICAT	TON	CKT NO.
1	PANEL HP			8.9			200	3	3	400	36.6					P.	ANEL YP	2
3					8.3							36.8						4
5						8.7							36.6					6
7	PANEL LP			5.2			200	2	-	_	_					SPACE		8
9					4.4				2	200		12.4				P/	ANEL RP	10
11													11.9					12
13	SPACE								3	90	5.8					E	LEVATOR	14
15	SPACE											5.8				(SHUI	NT TRIP)	16
17	SPACE												5.8					18
19	TVSS			0.0			60	3								SPACE		20
21					0.0		1									SPACE		22
23						0.0										SPACE		24
25	SPACE															SPACE		26
27	SPACE															SPACE		28
29	SPACE															SPACE		30
							-											
							-											
	TOTAL CONNECTED LOAD TOTAL CONNECTED LOAD TOTAL CONNECTED LOAD	B PHA	SE: 67	7.7 k	(VA (VA (VA													
	SERVES			CONN	I.LOAD	DF	EST	DEM.	LOAD	NOT	ES:							
	LIGHTS (L)			9.6		1		KVA				FIDM A		ATING	ON DAN	ELS PRIOR TO BI	n	
	RECEPTACLES (R)			24.3	KVA	0.5	17.	2 KVA								ELS PRIOR TO BI ST AS NECESSARY		
	EQUIPMENT (E)			0.0	KVA	0.5	0.0	KVA										
	HVAC (H)			135.9	9 KVA	1.0	135.	9 KVA		"*" DENOTES NEW BREAKER.								
	TOTAL			171.9	9 KVA		162	2.7 KV	Ά									

162.7 KVA =>451.6 AMPS @ 208V/3ø



#### RISER NOTES

- CONTRACTOR SHALL VERIFY AND COORDINATE SERVICE ENTRANCE LOCATION AND REQUIREMENTS WITH UTILITY PRIOR TO BID. CONTRACTOR SHALL PROVIDE OUTSIDE DISCONNECT, TRANSFORMER PAD, CURRENT TRANSFORMERS AND METER BASE PER UTILITY SPECIFICATIONS. PRIMARY SIDE GROUNDING BY UTILITY.
- ② 3 SETS OF 4-250KCMIL THWN AL IN 3"C.
- ③ NEMA 3R 600A 208V 3Ø FUSED DISCONNECT, CLASS R FUSES.
- (4) 2/0 BARE CU CONNECT TO BUILDING STEEL, METAL WATER LINE AND TO A CONCRETE ENCASED ELECTRODE PER NEC 250—81, AND TO MINIMUM OF THREE 3/4" X 10FT CU CLAD GND RODS DRIVEN IN A TRIANGULAR PATTERN AND SPACED 10FT ON CENTERS. PROVIDE ADDITIONAL GROUND RODS AS NEEDED TO OBTAIN A MAXIMUM OF 5 OHMS TO GROUND.
- (5) 3 SETS OF 4-250KCMIL THWN AL & 1-2/0 AL G IN 3"C.
- ⑥ 3-250KCMIL THWN AL & 1-#4 AL G IN 3"C.
- (8) 2 SETS 4-250KCMIL THWN AL & 1-#1 AL G IN 3"C.

EXIST PANE	ING L: LP					RATIN SERV MOUN		225A, 120/2 SURFA	08V. 1ø	LO. LOAD CENTER, 10,00 . 3W.	JA A.I.
CKT NO.	IDENTIFICATION	A KVA LOAD	B KVA LOAD	C.B. TRIP AMPS	# OF POLES	U # OF POLES	C.B. TRIP S AMPS	A KVA LOAD	B KVA LOAD	IDENTIFICATION	CK1 NO.
1	LIGHTS: BASEMENT WEST	0.3		20A	1P	1P	20A	0.7		BASEMENT EAST: LIGHT	S 2
3	LIGHTS: ELEV. PIT		0.1	20A	1P	1P	20A		0.2	DETENTION AREA: LIGHT	S 4
5	LIGHTS: 1ST FL EXHIBIT	1.1		20A	1P	1P	20A	0.6		1ST FL OFFICES: LIGHT	S 6
7	LIGHTS:CORRIDOR EXHIBIT		0.6	20A	1P	1P	20A		0.5	2ND FLOOR WEST: LIGHT	
9	SPARE	0.0		20A	1P	1P	20A	0.2		ELEVATOR CAB: LIGHT	
11	LIGHTS: 2ND FL EXHIBIT		0.6	20A	1P	1P	20A		1.3	COURT EAST: LIGHT	
13	LIGHTS: 1ST COMMON	1.0		20A	1P	1P	20A	0.5		COURT WEST: LIGHT	S 14
15	SPARE		0.0	20A	1P	1P	20A		0.0	SPAF	E 16
17	LIGHTS: EXTERIOR	1.0		20A	1P	1P	20A	0.0		SPAF	E 18
19	SPARE		0.0	20A	1P	1P	20A		0.0	SPAF	E 20
21	SPARE	0.0		20A	1P	1P	20A	0.0		SPAF	E 22
23	SPARE		0.0	20A	1P	1P	20A		0.0	SPAF	E 24
25	SPARE	0.0		20A	1P	1P	20A	0.0		SPAF	E 26
27	SPACE		_						_	SPACE	28
29	SPACE	_						_		SPACE	30
31	SPACE		-						_	SPACE	32
33	SPACE	-						_		SPACE	34
35	SPACE		-						_	SPACE	36
37	SPACE	_						_		SPACE	38
39	SPACE		-						_ 	SPACE	40
41	SPACE	_						_		SPACE	42
	TOTAL CONNECTED LOAD TOTAL CONNECTED LOAD TOTAL CONNECTED LOAD	B PHA	SE: 4.4	KVA							
	SERVES			CON	N.LOAD	DF	EST DEM	I. LOAD	1	ALL LIGHITNG CIRCUITS	ΔRF
	LIGHTS (L)			9.6	KVA	1	9.6 KVA	1		BE EXTENDED THROUGH	
	RECEPTACLES (R)			0.0	KVA	0.6	0.0 KVA		LIG	SHTING CONTROL PANEL	LCP
	EQUIPMENT (E)			0.0	KVA	0.5	0.0 KVA		F0	R PROGRAMMABLE CON	ROL.
	HVAC (H)			0.0			0.0 KVA				
	\ /										

9.6 KVA =>46.1 AMPS @ 208V/1ø

NEW Pane	L: RP					RATING: SERVICE MOUNTIN	: 1	25A, 42 20/2089 SURFACE	V. 1ø. 3	D. LOAD CENTER, 10,000A SW.	A.I.C.
CKT NO.	IDENTIFICATION	B KVA LOAD	C KVA LOAD	C.B. TRIP AMPS	# OF POLES	U # OF POLES	C.B. TRIP S AMPS	B KVA LOAD	C KVA LOAD	IDENTIFICATION	CKT NO.
1	ELEV. SUMP PUMP	0.2		20	1	1	20	0.4		ELEV. PIT: RECEPT	2
3	RECEPT:BASM'T WEST		1.0	20	1	1	20		0.6	BASM'T EAST: RECEPT	4
5	RECEPT: COMM BOARD	0.4		20	1	1	20	1.2		1ST COMMON: RECEPT	6
7	RECEPT: RM. 008		0.6	20	1	1	20		1.2	RM 110: RECEPT	8
9	RECEPT: RM 104	0.6		20	1	1	20	0.8		RM 105: RECEPT	10
11	RECEPT: RM 106		0.8	20	1	1	20		0.6	RM 208: RECEPT	12
13	RECEPT: RM 209	0.6		20	1	1	20	0.8		COURT RM: RECEPT	14
15	FACP		0.2	20	1	1	20		0.8	RM 111: RECEPT	16
17	RECEPT: RM 113	0.8		20	1	1	20	0.0		RM 105: RECEPT	18
19	RECEPT: RM 106		0.8	20	1	1	20		0.4	RM107: RECEPT	20
21	RECEPT: RM 107	1.2		20	1	1	20	0.8		RM 108: RECEPT	22
23	RECEPT: RM 101		0.6	20	1	1	20		0.6	RM 102: RECEPT	24
25	ELEC WATER COOLER	0.4		20^	1	1	20	1.2		RMS 115,116: RECEPT	26
27	REFRIGERATOR		0.2	20	1	1	20		0.9	DISPOSAL	. 28
29	RECEPT: RM 116	1.0		20	1	1	20	0.6		RM 207 FLOOR: RECEP	T 30
31	RECEPT: RM 201		0.8	20	1	1	20		1.2	RMS 204,205: RECEPT	32
33	RECEPT: RM 206	0.8		20	1	1	20	0.6		COUNCIL BENCH: RECEPT	34
35	RECEPT: COUNCIL BENCH		0.6	20	1				_	SPACE	36
37	SPARE	0.0		20	1			-		SPACE	38
39	SPARE		0.0	20	1				_	SPACE	40
41	SPARE	0.0		20	1			-		SPACE	42
	TOTAL CONNECTED LOA TOTAL CONNECTED LOA TOTAL CONNECTED LOA	D B Pł	HASE: 1		VA VA						
	SERVES			CON	N.LOAD	DF	EST DEM	1. LOAD	<b>"</b> ^"	DENOTES GFCI BREAKER	
LIGHTS (L)				0.0	KVA	1	0.0 KV	4		DENOTES GFOI DREAKER	•
	RECEPTACLES (R)			24.3		0.6	18.6 K	VA			
	EQUIPMENT (E)			0.0		0.5	0.0 KV/				
	HVAC (H)			0.0			0.0 KVA	•			
HVAC (H) TOTAL					KVA		18.6 K				

18.6 KVA => 89.4 AMPS @ 208V/1ø

DENTIFICATION R	WIRE	LOAD TYPE CODE H	A KVA LOAD 32.2	B KVA LOAD	C KVA LOAD	C.B. TRIP AMPS	# OF POLES	# OF	C.B. TRIP	A	В	С	LOAD			CK
R			32.2		////		OLLO	POLES	AMPS	KVA LOAD	KVA LOAD	KVA LOAD	TYPE	WIRE	IDENTIFICATION	N(
		н			V///	300	3	3	35	2.1					HWP-1	
		11		32.2							2.1					
		Н			32.2							2.1				
			0.0			15	3	1	20	0.2			Н		BOILER	
				0.0				1	20*		0.4		R		RECEPTACLE	
					0.0			1	20			0.2	L		YARD LIGHT	
2		Н	2.1			35*									SPACE	
		Н		2.1		1								-	SPACE	
		Н			2.1										SPACE	
SPACE															SPACE	
SPACE															SPACE	
SPACE															SPACE	
SPACE															SPACE	
SPACE															SPACE	
SPACE															SPACE	
																F
										4						
									_							
									1					1		
	SPACE SPACE SPACE SPACE SPACE SPACE CONNECTED LOAD A	SPACE SPACE SPACE SPACE SPACE SPACE	SPACE SOURCE SPACE	SPACE SOURCE SPACE	SPACE	ONNECTED LOAD A PHASE: 36.6 KVA	O.0	December 2   December 3   Dec	1	O.0	Double   D	O.0     1   20	O.0     1   20   0.2		0.0	0.0     1 20 0.2 L YARD LIGHT   SPACE   SPAC

109.4 KVA =>303.7 AMPS @ 208V/3Ø

exist Pane	ING L: HP							NEMA	. 1					SER	ING: :VICE: JNTING:	200A, 42C, MLO,10,000 120/208V. 3P. 4W. SURFACE MOUNTED	) A.I.C
CKT NO.	IDENTIFICATION	WIRE	LOAD TYPE CODE	A KVA LOAD	B KVA LOAD	C KVA LOAD	C.B. TRIP AMPS F	# OF OLES	# OF POLES	C.B. TRIP AMPS	A KVA LOAD	B KVA LOAD	C KVA LOAD	LOAD TYPE CODE	WIRE	IDENTIFICATION	CKT NO.
1	AHU-1	3-#8,#10G	Н	2.7			50	3	3	15	0.0					SPARE	2
3	1		Н		2.7					1		0.0					4
5			Н			2.7				1			0.0				6
7	ERU EXHAUST FAN		Н	1.1			20	3	2	15	0.0					SPARE	8
9	1		Н		1.1					1		0.0					10
11			Н			1.1			2	15			0.7	Н		FAN COILS	12
13	FAN COILS		Н	0.8			15	2		1	0.7			Н			14
15			Н		0.8				2	15		0.8		Н		FAN COILS	16
17	FAN COILS		Н			0.7	15	2		1			0.8	Н			18
19			Н	0.7					2	15	0.0					SPARE	20
21	SPARE				0.0		15	2		1		0.0					22
23						0.0			2	15			0.0			SPARE	24
25	EXHAUST FAN EF-21		Н	0.2			20	1		1	0.0						26
27	ERU SUPPLY FAN	3-#8,#10G	Н		2.4		50*	3	1	20		0.2		Н		EXHAUST FAN EF-B1	28
29			Н			2.4			3	15*			0.3	Н		ERU WHEEL	30
31			Н	2.4				1		-	0.3			Н			32
33	SPACE											0.3		Н			34
35	SPACE															SPACE	36
37	SPACE															SPACE	38
39	SPACE															SPACE	40
41	SPACE	1														SPACE	42
	TOTAL CONNECTED LOAD TOTAL CONNECTED LOAD TOTAL CONNECTED LOAD	B PHAS	SE: 8		VA VA												
	SERVES				I.LOAD		EST [		LOAD	NOTI	:S:						
	LIGHTS (L)			0.0		1	0.0				"±"	DENIOT	בכ אור	W BREA	NVED.		
	RECEPTACLES (R)			0.0		0.6	0.0				•	DENUI	CO NE	W BKE	AKEK.		
	EQUIPMENT (E)			0.0		0.5	0.0										
	HVAC (H)			25.9	KVA	1.0	25.9	KVA									

25.9 KVA =>71.9 AMPS @ 208V/3ø



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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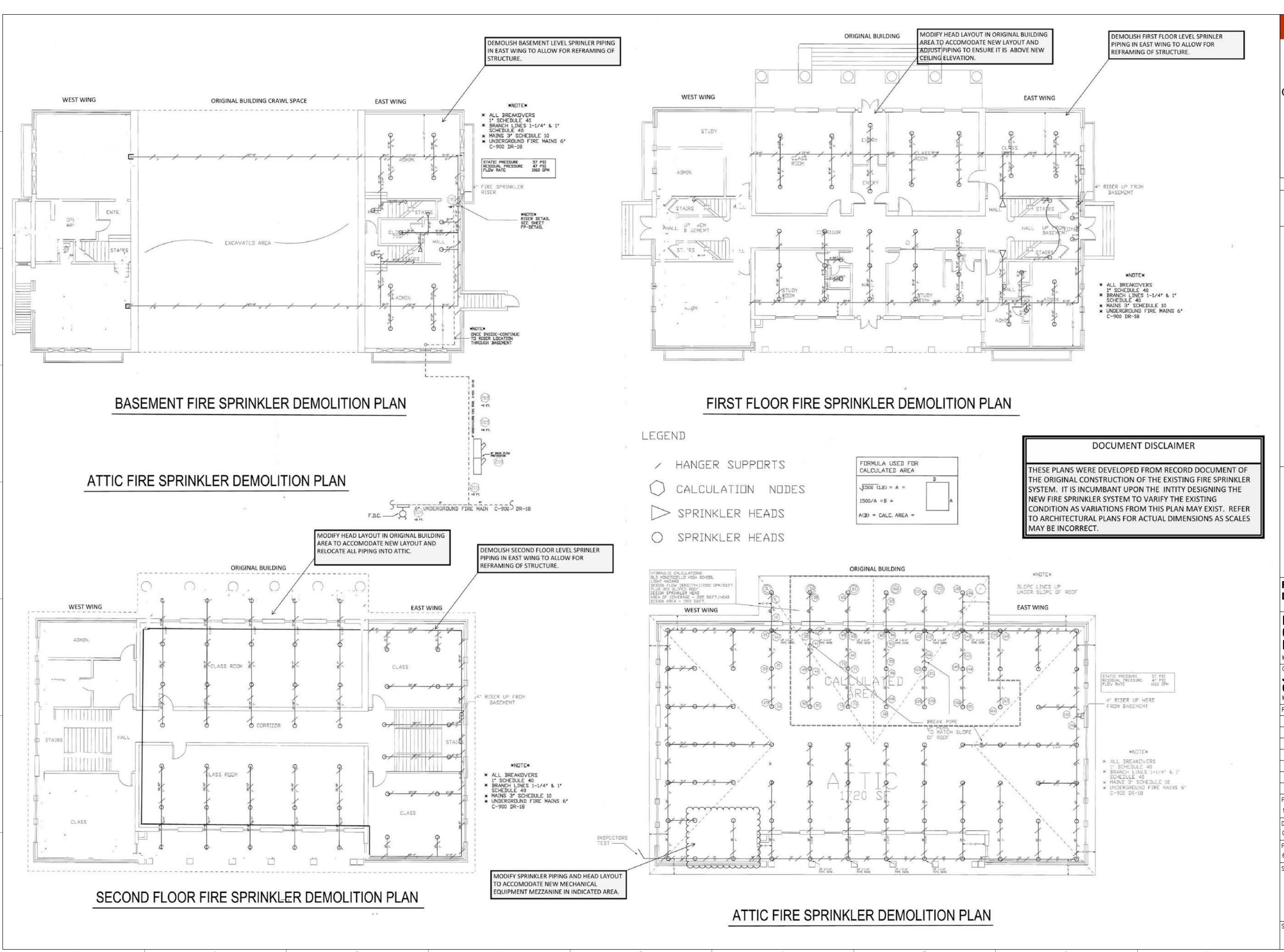
01 AUGUST 2019 REW
PROJECT NO CHECKED BY REW

SHEET TITLE

ELECTRICAL PANELS AND POWER RISER

SHEET NO **E301** 

| KEV NO





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GRAPHICS

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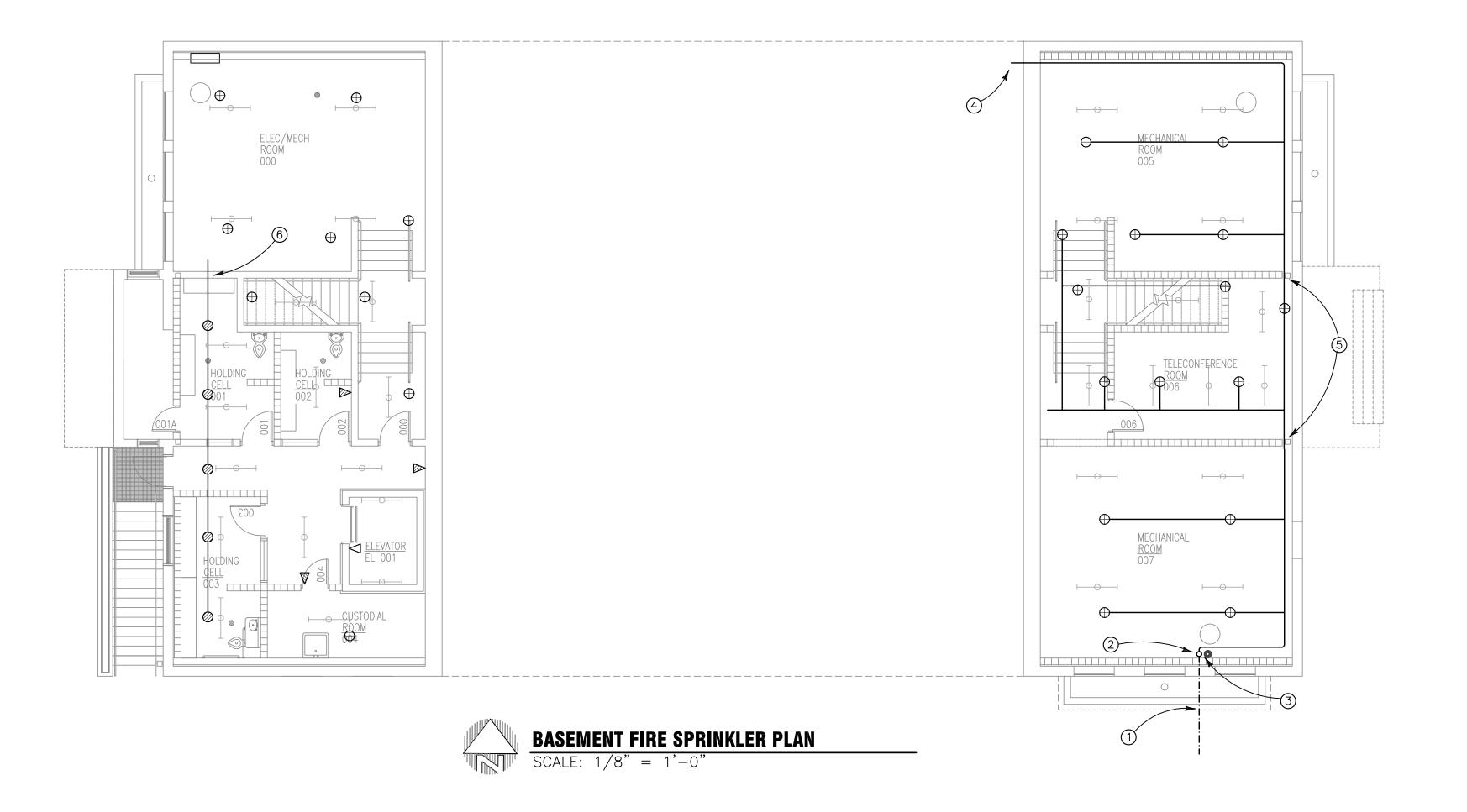
CHECKED BY
REW

SHEET TITLE

# FIRE SPRINKLER DEMOLITION PLAN

SHEET NO F101

REV N



THIS SHEET ONLY

- 1) EXISTING UNDERGROUND FIRE WATER SUPPLY.
- 2) MODIFY EXISTING DRY PIPE RISER TO A COMBINATION DRY/WET PIPE RISER.
- 3 TURN WET AND DRY PIE SYSTEMS UP CONCEALED IN WALL ABOVE.
- 4) WET PIPE DISTRIBUTION TO WEST SIDE.
- 5 PIPE MUST PASS UNDER BOND BEAM.
- 6 TURN PIPE UP ABOVE BOND BEAM AND EXTEND BETWEEN FLOOR JOISTS.



ARCHITECTURE PLANNING INTERIORS **GRAPHICS** 

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Jefferson County Board of
County Commissonioners

MONTICELLO, FLORIDA									
REV	DATE	DESCRIPTION							

PROJECT PHASE

100% CONSTRUCTION DOCUMENTS

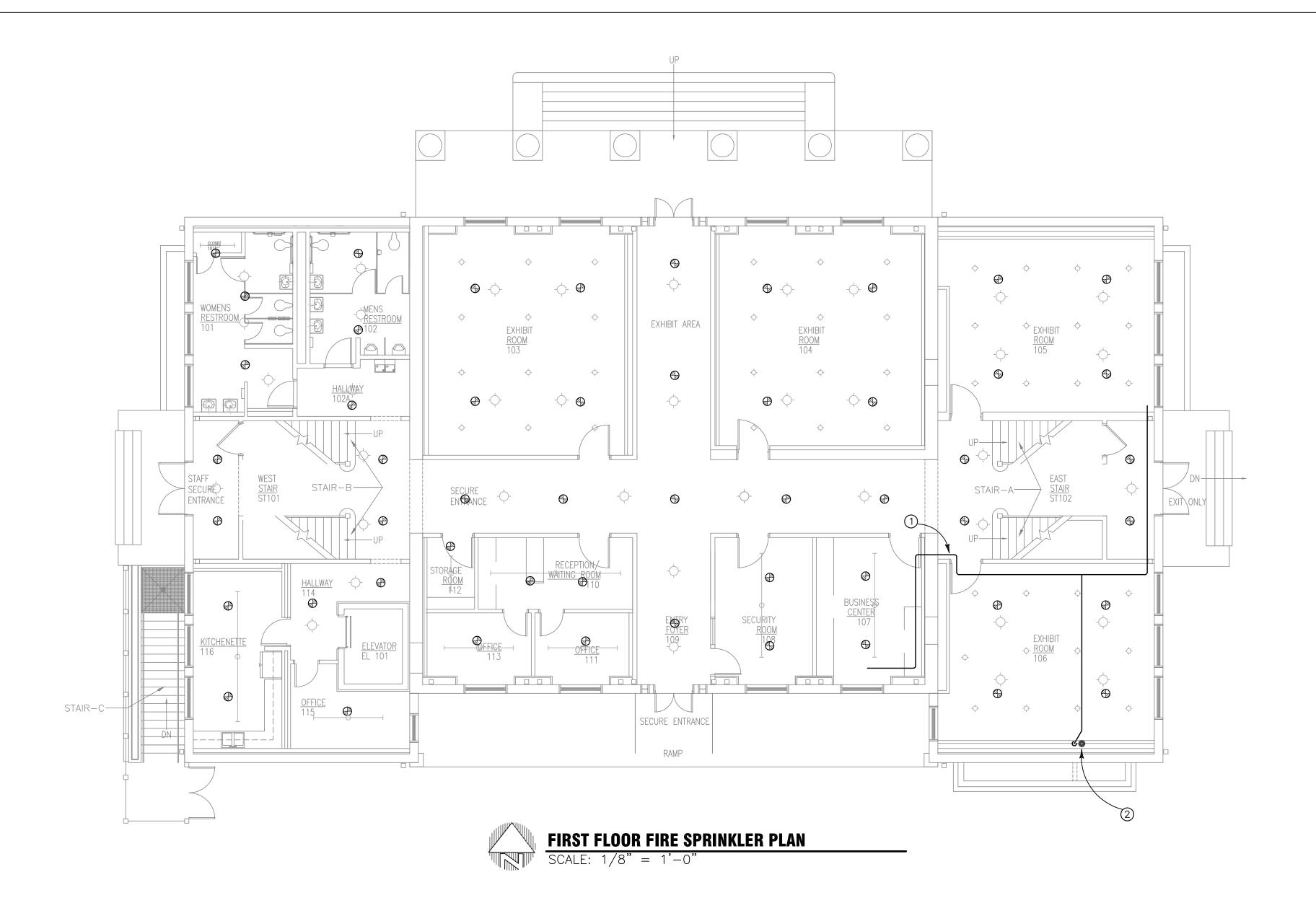
01 AUGUST 2019

DRAWN BY REW PROJECT NO CHECKED BY REW

SHEET TITLE

**BASEMENT** FIRE SPRINKLER PLAN

F201



THIS SHEET ONLY

ROUTE WET PIPE SYSTEM TO AVOID DUCT CHASE AND TIE INTO EXISITNG SPRINKLER PIPING IN ORIGINAL BUILDING AREA.

② DRY PIPE UP TO SECOND FLOOR AND ATTIC.



ARCHITECTURE PLANNING INTERIORS GRAPHICS

ELLIOTT MARSHALL INNES PA. (EMI grichitects) 251 E. 7TH AVENUE TALLAHASSEE FL 32303 (850) 222 - 7442 Www.emiarch.com UCENSE #1 AA C000409 IB C000153

NOTE: 11"x17" SHEETS ARE PLOTTED AT ½ THE SCALE NOTED ON THESE DRAWINGS.



r.e.Walsh Engineering, Inc. 3073 Hickory Wind Road, Tallahassee, Florida 32317 Phone (850) 656-3800 C.A.#00009540

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Roger E. Walsh, P.E. FLA #36997

Florida Department of State **Division of Historical Resources** 

## HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA

OWNER NAME:

Jefferson County Board of
County Commissonioners
MONTICELLO, FLORIDA

REV DATE DESCRIPTION

PROJECT PHASE 100% CONSTRUCTION DOCUMENTS

01 AUGUST 2019

REW PROJECT NO CHECKED BY REW

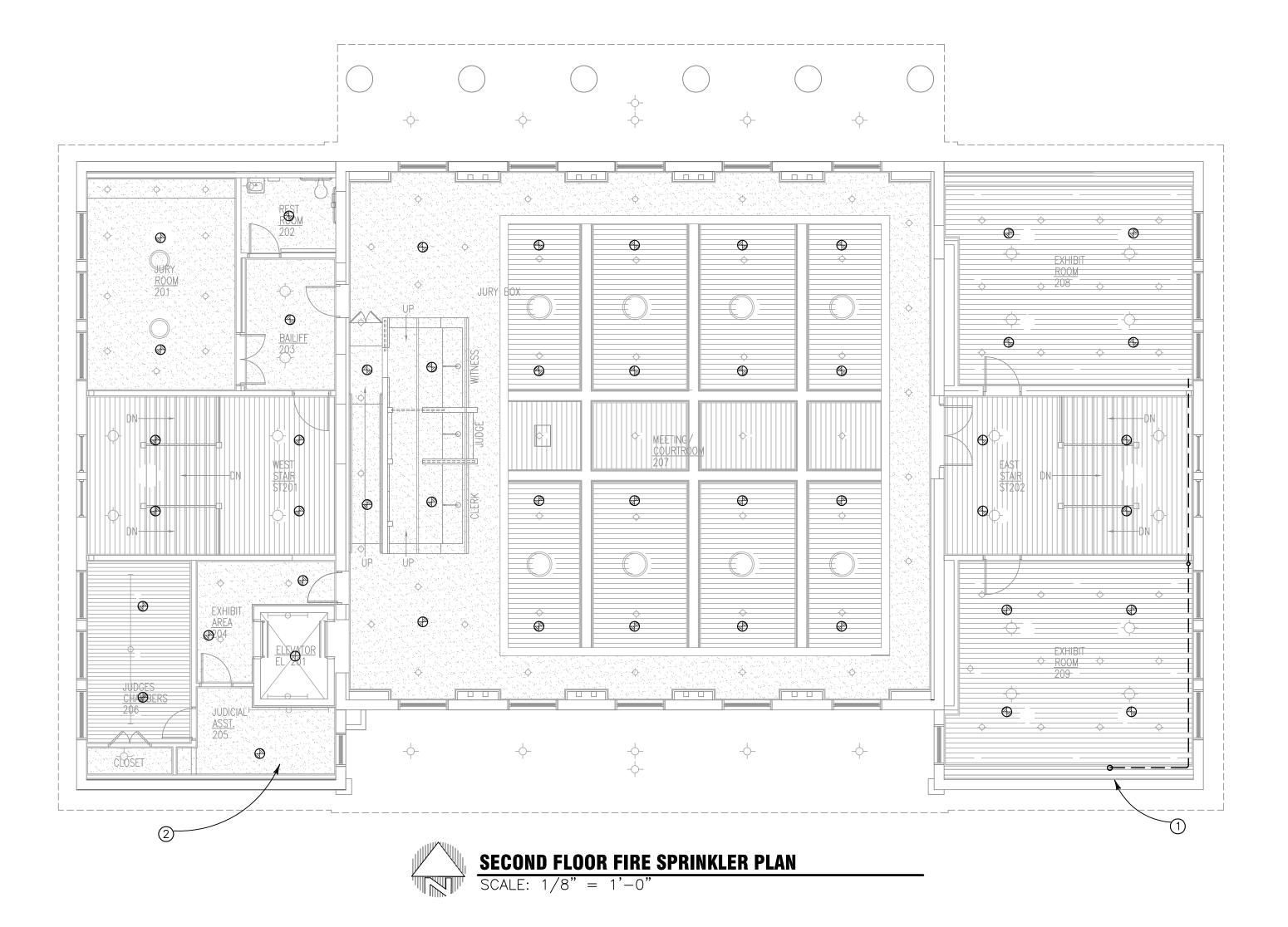
SHEET TITLE

FIRST FLOOR FIRE SPRINKLER **PLAN** 

**F202** 

REV NO

DRAWN BY



THIS SHEET ONLY

- DRY PIPE UP FROM BELOW CONCEALED IN WALL. EXTEND TO SECOND FLOOR COVERAGE AND CONNECTION TO EXISTING ATTIC SYSTEM. ALL PIPING FOR SECOND FLOOR COVERAGE TO BE EXTENDED IN THE ATTIC.
- ② MODIFY EXISTING ATTIC SYSTEM IN THIS AREA TO AVOID CONFLICT WITH MECHANICAL EQUIPEMTN AND DUCTS ON NEW EQUIPMENT MEZZANINAE.



ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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(ICTNST #1 AA C000409 IR C000153

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REV	DATE	DESCRIPTION

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DATE

DATE DRAWN BY REW

PROJECT NO CHECKED BY REW

SHEET TITLE

SECOND FLOOR FIRE SPRINKLER PLAN

SHEET NO

REV NO

F203

#### NFPA REQUIREMENTS:

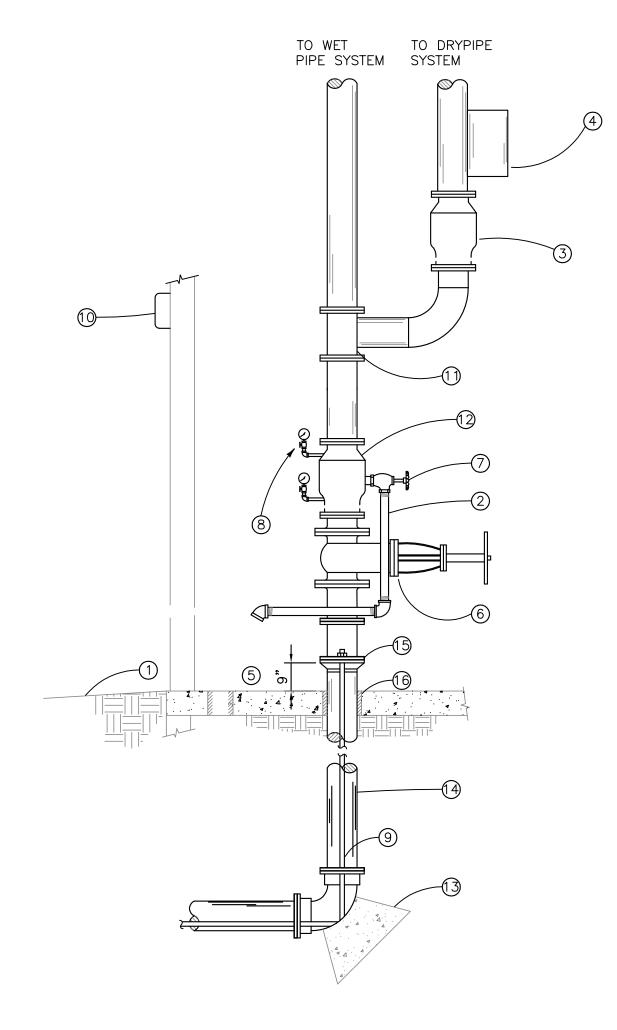
- A. OWNER: JEFFERSON COUNTY
- B. LOCATION: MIONTICELLO, FLORIDA
- C. POINT OF COMPASS: 83° 52' 23" W LONG., 30° 32' 40" N LAT.
- D. CEILING CONSTRUCTION: SEE PLANS
- E. FULL HEIGHT CROSS SECTION: SEE PLANS
- F. LOCATION OF FIRE WALLS: SEE PLANS
- G. LOCATION OF PARTITIONS: SEE PLANS
- H. OCCUPANCY: LIGHT HAZARD
- I. CONCEALED SPACES: ALL CONCEALED SPACES ARE BEING SPRINKLERED IN ACCORDANCE WITH NFPA-13.
- J. SMALL ENCLOSURES: SEE PLANS
- K. MUNICIPLE MAIN: SEE PLANS
- L. FLOW TEST DATA: FLOW TEST BY CONTRACTOR
- M. MAKE, TYPE AND ORIFICE OF SPRINKLERS: SEE SPECIFICATIONS AND
- N. HIGH TEMPERATURE SPRINKLERS: NONE
- O. TOTAL AREA PROTECTED:

BASEMENT: LIGHT HAZARD, WET PIPE: 3,062 SQUARE FEET LIGHT HAZARD, WET PIPE: 6,309 SQUARE FEET SECOND FLOOR: LIGHT HAZARD, DRY PIPE: 6,309 SQUARE FEET ATTIC: LIGHT HAZARD, DRY PIPE: 7,506 SQUARE FEET

P. NUMBER OF SPRINKLERS:

BASEMENT: LIGHT HAZARD, WET PIPE: 33 HEADS FIRST FLOOR: LIGHT HAZARD, WET PIPE: 52 HEADS SECOND FLOOR: LIGHT HAZARD, DRY PIPE: 42 HEADS ATTIC: LIGHT HAZARD, DRY PIPE: 89 HEADS

- Q. DRY PIPE VALVES: ONE
- R. PREACTION AND DELUGE VALVES: NONE
- S. ALARM BELL: FLOW SWITCH TO FIRE ALARM SYSTEM.
- T. DRY PIPE OR PREACTION SPRINKLERS: NONE
- U. DRY PIPE SYSTEM CAPACITY: BY CONTRACTOR SHOP DRAWINGS.
- V. PIPE TYPE: NFPA APPROVED
- W. RISER NIPPLES: BY CONTRACTOR SHOP DRAWINGS.
- X. FITTINGS: NFPA APPROVED
- Y. HANGERS AND SLEEVES: BY CONTRACTOR SHOP DRAWINGS.
- Z. VALVE DRAINS AND TEST PIPES: SEE PLANS.
- AA. HOSE EQUIPMENT: NONE.
- BB. UNDERGROUND PIPE: EXISTING TO REMAIN
- CC. PROVISIONS FOR FLUSHING: SEE SPECIFICATIONS AND PLANS.
- DD. ADDITIONS TO EXISTING SYSTEM: PER PLANS
- EE. HYDRAULIC NAMEPLATE DATA: PER HYDRAULIC CALCULATIONS
- FF. NAME AND ADDRESS OF CONTRACTOR: BY CONTRACTOR SHOP DRAWINGS.



FIRE ENTRANCE RISER DETAIL SCALE: NONE

**─**⊘─

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\_ \_ \_

(FIRE ENTRANCE RISER DETAIL ONLY)

- (1) OUTSIDE FINISH GRADE
- 2 2" DRAIN PIPING DISCHARGE TO SUMP
- 3 DRY VALVE
- 4) MAINTENANCE COMPRESSOR
- 5 FINISH FLOOR LEVEL
- (6) RISING STEM INDICATING OS&Y VALVE WITH TAMPER SWITCH
- 7 2" MAIN DRAIN: DISCHARGE 24" ABOVE OUTSIDE FINISH GRADE.
- (8) WATER PRESSURE GAUGE (2 REQUIRED)

ABOVE OUTSIDE FINISH GRADE.

- (9) EXISTING TIE ROD
- 10 ALARM BELL INITIATED BY FIRE ALARM SYSTEM, INSTALL 10FT.
- (1) TEE CONNECTION
- 12 ALARM VALVE
- (13) EXISTING THRUST BLOCK.
- (14) EXISTING FIRE RISER FROM MAIN WATER SUPPLY
- (5) EXISTING MECHANICAL JOINT & FLANGE CONNECTOR
- (6) EXISTING PROVIDE SCH. 40 STEEL PIPE SLEEVE. CAULK ANNULAR SPACE IN A LIQUID TIGHT MANNER.

#### **GENERAL NOTES**

PRIOR TO COMMENCING WORK.

1. CONTRACTOR SHALL MODIFY THE EXISTING DRY PIPE SPRINKLER SYSTEM TO PRODUCE A COMPLETE AND OPERABLE COMBINATION DRY/WET PIPE AUTOMATIC FIRE SPRINKLER SYSTEM WITH COVERAGE THROUGHOUT THE BUILDING. SYSTEM SHALL BE GENERALLY AS INDICATED ON THE DRAWINGS AND AS SPECIFIED. SYSTEMS SHALL BE A COMBINATION DRY/WET PIPE TYPE. THESE DRAWINGS ARE INTENDED TO CONVEY GENERAL AREAS OF COVERAGE. ACTUAL SPRINKLER HEAD LAYOUT IS DELEGATED TO THE PROFESSIONAL ENGINEER PRODUCING THE WORKING DRAWINGS IN ACCORDANCE WITH THE FLORIDA ADMINISTRATIVE CODE 61G15-30.006. THE DELEGATED ENGINEER SHALL ENSURE THE WORKING DRAWINGS COMPLY WITH THE REQUIREMENTS OF NFPA 13 AS WELL AS ALL OTHER APPLICABLE CODES AND REGULATIONS. SPRINKLER LAYOUT AND PIPING ROUTING SHALL BE COORDINATED WITH THE MECHANICAL DUCT PLANS TO ALLOW FOR COMPLETE INSTALLATION OOF BOTH SYSTEMS. HEAD LAYOUT SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. WHERE VARIATIONS IN HEAD LOCATIONS OCCUR FROM THOSE INDICATED ON THESE DRAWINGS, THOSE VARIATIONS SHALL BE COORDINATED WITH THE ARCHITECT AND SHALL BE SUBJECT TO HIS APPROVAL.

2. WORKING PLANS WITH ALL DATA REQUIRED BY NFPA-13 SHALL BE PREPARED UTILIZING DIMENSIONAL DATA OBTAINED FROM THE ARCHITECTURAL FLOOR PLANS NOT SCALED FROM THE FIRE SPRINKLER SHEETS. PIPE SIZING SHALL BE OBTAINED THROUGH HYDRAULIC CALCULATIONS FOR PIPE SIZING BY THE CONTRACTOR, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, AND SUBMITTED TO THE AUTHORITY HAVING JURISDICTION AND APPROVED PRIOR TO BEGINNING ANY CONSTRUCTION.

3. PIPE ELEVATIONS THROUGHOUT SHALL ACCOMDATE NEW CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

LIGHT HAZARD (0.10 GPM/SF) THROUGHOUT. 5. THE EXISTING SYSTEM HAS A FIRE DEPARTMENT CONNECTION AT THE EXISTING BACKFLOW

4. DESIGN SHALL COMPLY WITH NFPA 13 IN ALL AREAS. PROTECTION SHALL BE DESIGNED FOR

6. A SEPARATE PERMIT SHALL BE REQUIRED FOR THE FIRE SPRINKLER SYSTEM. THE AUTOMATIC SPRINKLER CONTRACTOR SHALL SUBMIT PLANS FOR EVALUATION AND APPROVAL

7. SUPPORT ALL PIPING FROM PRIMARY BUILDING STRUCTURAL MEMBERS ONLY.

PREVENTER APPROVED BY THE AUTHOITY HAVING JURISDICTION.

8. REFER TO LIFE SAFETY SHEETS FOR OCCUPANCY CLASSIFICATION. REFER TO ARCHITECTURAL SHEETS FOR BUILDING MATERIAL, WALL AND FLOOR FIRE RATINGS, AND SPACE DIMENSIONAL INFORMATION.

9. ALL CONSTRUCTION SHALL COMPLY WITH NFPA 13, 2013; NFPA 14, 2013; FLORIDA FIRE PREVENTION CODE, FLORIDA BUILDING CODE-BUILDING, FLORIDA BUILDING CODE-PLUMBING, AND FLORIDA BUILDING CODE—MECHANICAL, ALL 6TH EDITION.

# architects

ARCHITECTURE PLANNING INTERIORS GRAPHICS

ELLIOTT MARSHALL INNES PA. (EMI orchitects) 251 E. 7TH AVENUE TALLAHASSEE FL 32303 (850) 222 - 7442 DICENSE #1 AA C000409 ■ C000153

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#### HISTORIC JEFFERSON **COUNTY HIGH SCHOOL RESTORATION**

MONTICELLO, FLORIDA

OWNER NAME: **Jefferson County Board of County Commissonioners** MONTICELLO, FLORIDA

REV	DATE	DESCRIPTION

PROJECT PHASE

100% CONSTRUCTION DOCUMENTS

DRAWN BY REW 01 AUGUST 2019 PROJECT NO CHECKED BY

SHEET TITLE

FIRE SPRINKLER RISER AND **GENERAL NOTES** 

REW

SHEET NO

FIRE PROTECTION LEGEND

PENDENT SPRINKLER

UPRIGHT SPRINKLER

SIDEWALL SPRINKLER

INSTATURIONAL PENDENT SPRINKLER

INSTATUTIONAL SIDEWALL SPRINKLER

PIPING DROP IN DIRECTION OF FLOW

PIPING RISE IN DIRECTION OF FLOW

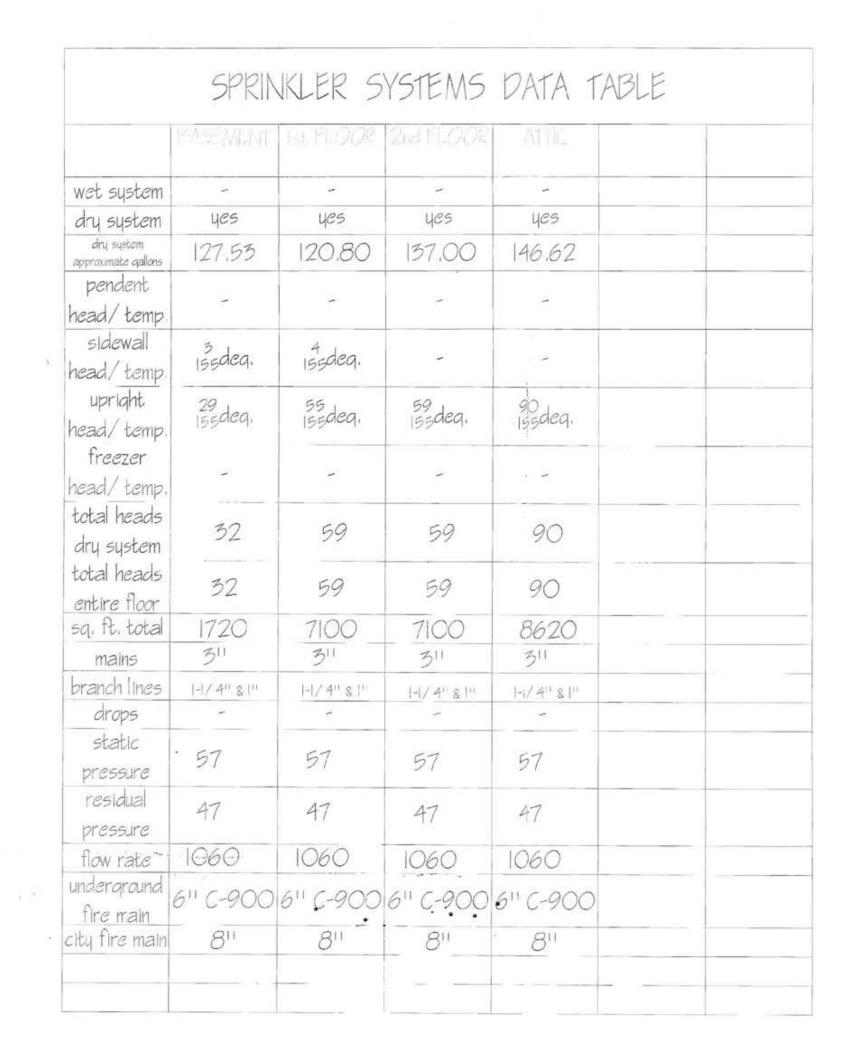
UNDERGROUND SPRINKLER PIPING

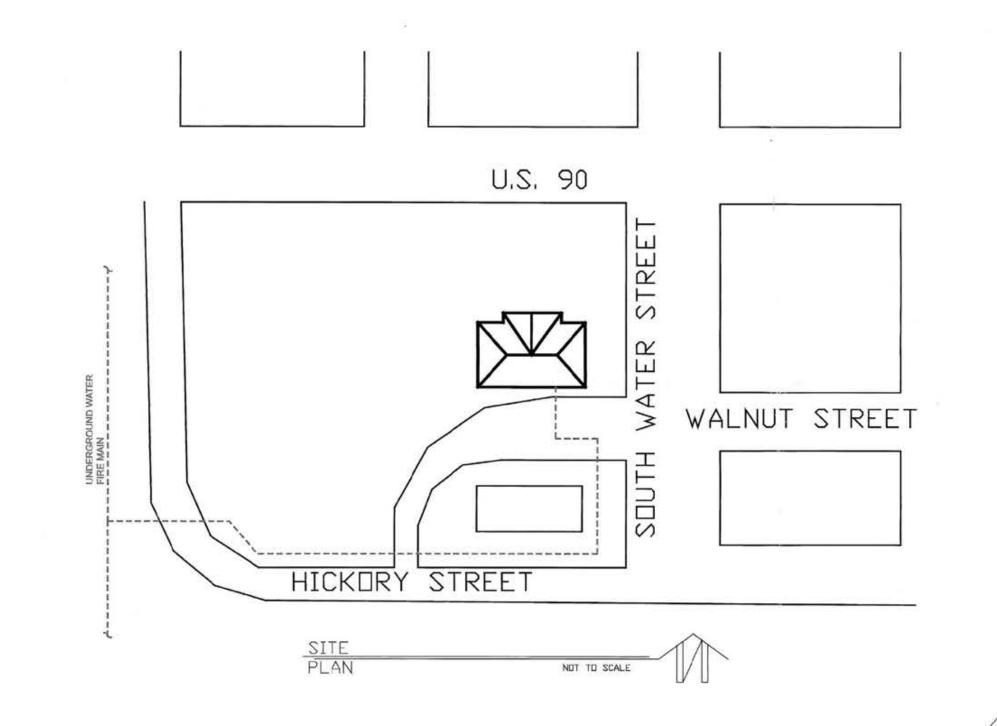
WET PIPE SPRINKLER PIPING

DRY PIPE SPRINKLER PIPING

F301

# FIRE PROTECTION PLAN COVER SHEET

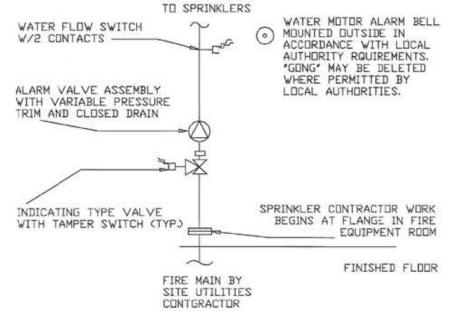




SPRINKLER MAIN TO FEED SPRINKLERS. SIZE PER HYDRAULICS CALCULATIONS FIRE MAIN SIZE PER HYDRAULIC CALCULATIONS

> ZONE CONTROL VALVE ASSEMBLY DETAIL

INDICATING TYPE ZONE CONTROL VALVE WITH TAMPER SWITCH



REMOTE DETECTOR CHECK ASSEMBLY FIRE PROTECTION ENTRY RISER SCHEMATIC (WET SYSTEM)

ENGINEERING INFORMATON

LEGEND

/ HANGER SUPPORTS

CALCULATION NODES

SPRINKLER HEAD

SPRINKLER HEAD

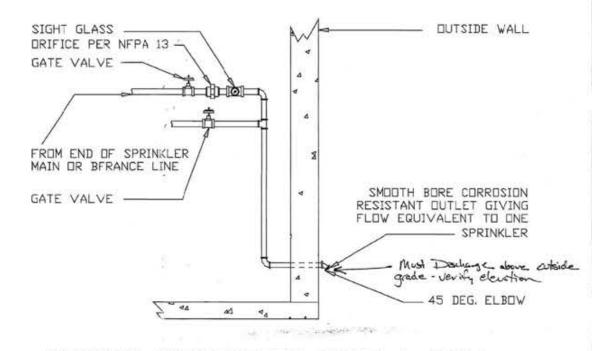
SPRINKLER HEAD

O SPRINKLER HEAD

 $\sqrt{1500}$  (1.2) = A =

1500/A = B =

A(B) = CALC. AREA =



REMOTE INSPECTORS TEST & MAIN DRAIN ASSEMBLY DETAIL

PILEY PALAIER CONSTRUCTION CO. INC SUBMITTAL ISSTO -/ SPECIFICATION 8 /SSTO |

APPROVED APPROVED AS MOTEO |

REVISE AUG RESUBMIT Appeal of these obsciners does not seem this common tent the recurrence of the content shours.

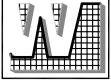
BY DATE 3/11/08

te Wash chancoting in. II DO NO EXCEPTIONS NOTED C RESUMANT DATE 3-25-8 GENER PEN

ARCHITECTURE PLANNING INTERIORS **GRAPHICS** 

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Florida Department of State **Division of Historical Resources** 

#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA

Drawing #

Drawn by: / /

-cover

OWNER NAME: **Jefferson County Board of County Commissonioners** 

MONTICELLO, FLORIDA										
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PROJECT PHASE

100% CONSTRUCTION DOCUMENTS

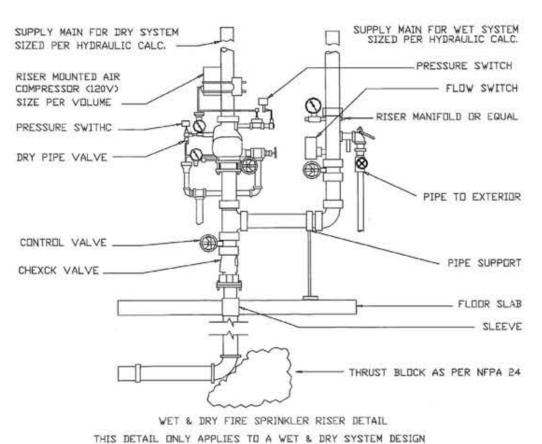
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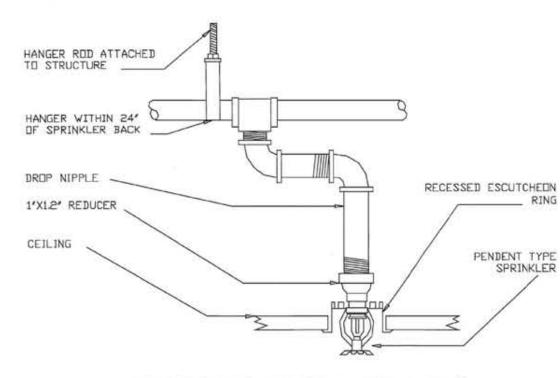
SHEET TITLE

**AS-BULT** FIRE SPRINKLER **PLANS** 

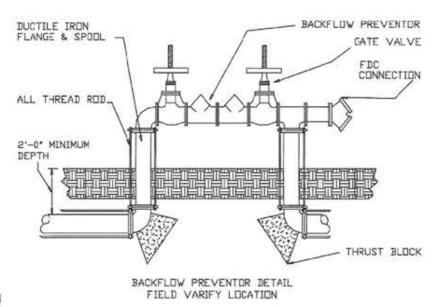
SHEET NO REV NO F401

# FIRE PROTECTION PLAN DETAIL SHEET





RECESSED SPRINKLER HEAD W/BREAK-OVER DETAIL





THESE DRAWINGS ARE PRELIMINARY, HOWEVER THEY MAY USED FOR REVIEW

SYSTEM IS TO BE INSTALLED PER LOCAL BUILDING DEPT, APPPROVAL DNLY USING NFPA 19
AS A GUIDELING
DISTALLERS ARE EXPERIENCED WITH KNCYLEDGE OF CODES & WILL INSTALL AS SUCH.
FIRE RISERS WHICH SUPPLY EACH FLOOR WILL BE DIMENSIONED ACCORDING TO PLANS
ALL DITHER PIPE VILL BE DIMENSIONED ACCORDING TO PLANS
ALL DETAILS IN THIS SHEET MAY NOT APPLY
MICROBACTERIA DIES NOT APPEAR TO BE A PROBLEM IN THE CITY WATER.
PUDINT OF CONNETION WILL BE WEERE FIRE LIDBE TIES INTO EXISTING WATER.
EXISTING WATER LIDE APPEARS TO BE CRULATING
ALL UNDERGROUND PIPES TO BE C-900 DR-18 UNLESS EXPOSED, THEN SHALL BE DUCTILE IRON.
1/2' CHROME PENDANT GLOBE 56K DR EQUAL, 155 DEGREE.
1/2' BRASS UPRIGHT GLOBE 56K DR EQUAL, 155 DEGREE.
1/2' BRASS UPRIGHT GLOBE 56K DR EQUAL, 155 DEGREE.
1/2' BRASS UPRIGHT GLOBE 56K DR EQUAL, 155 DEGREE.
1/2' WHITE RESIDENTIAL STEWALL REDUCE 4/K DR EQUAL, 155 DEGREE.
1/2' WHITE RESIDENTIAL SIDEWALL GLOBE 4/K DR EQUAL, 155 DEGREE.
1/2' WHITE RESIDENTIAL SIDEWALL GLOBE 4/K DR EQUAL, 155 DEGREE.
1/2' WHITE RESIDENTIAL SIDEWALL GLOBE 4/K DR EQUAL, 155 DEGREE.
1/2' WHITE RESIDENTIAL SIDEWALL GLOBE 4/K DR EQUAL, 155 DEGREE.
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1/2' WHITE RESIDENTIAL SIDEWALL GLOBE 4/K DR EQUAL, 155 DEGREE.
1/2' WHITE RESIDENTIAL SIDEWALL GLOBE 4/K DR EQUAL, 155 DEGREE.
1/2' WHITE RESIDENTIAL SIDEWALL GLOBE 4/K DR EQUAL, 155 DEGREE.
1/2' WHITE RESIDENTIAL SIDEWALL GLOBE 4/K DR EQUAL SIDEWALL GLOBE A/K DR EQUAL, 155 DEGREE.
1/2' WHITE RESIDENTIAL SIDEWALL GLOBE 4/K DR EQUAL GLOBE A/K DR EQUAL GLOBE A/K

ALL ALARM SYSTEMS ARE TO BE WIRED INTO PANELS AND/OR BELLS BY OTHTERS.

0

High

ello

r.e.Walsh Engineering, Inc. 3073 Hickory Wind Road, Tallahassee, Florida 32317 Phone (850) 656-3800

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architects

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AT 1/2 THE SCALE NOTED ON

ARCHITECTURE

DICENSE #1 AA C000409 IB C000153

GRAPHICS

PLANNING INTERIORS

ELLIOTT MARSHALL INNES P.A. (EMI orchitects) 251 E. 7TH AVENUE TALLAHASSEE FL 32303

THESE DRAWINGS.

Roger E. Walsh, P.E. FLA #36997

Florida Department of State **Division of Historical Resources** 

#### HISTORIC JEFFERSON COUNTY HIGH SCHOOL RESTORATION

MONTICELLO, FLORIDA

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REV DATE DESCRIPTION

PROJECT PHASE

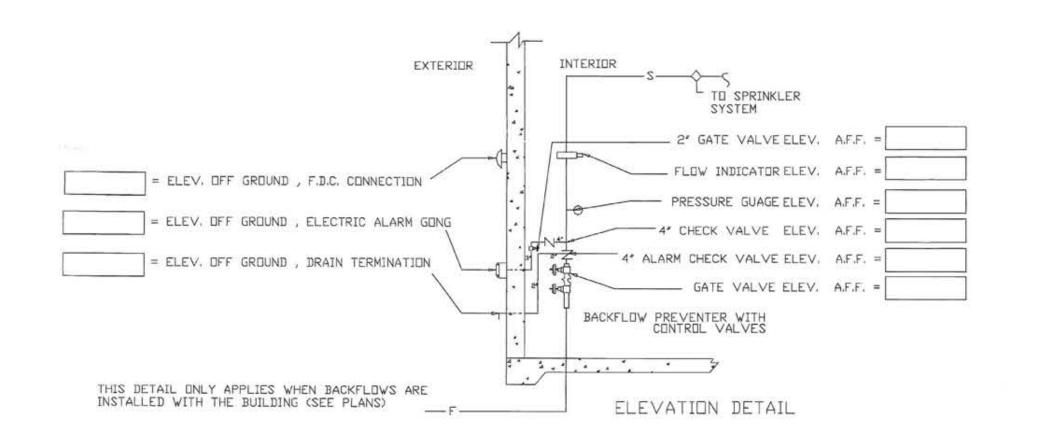
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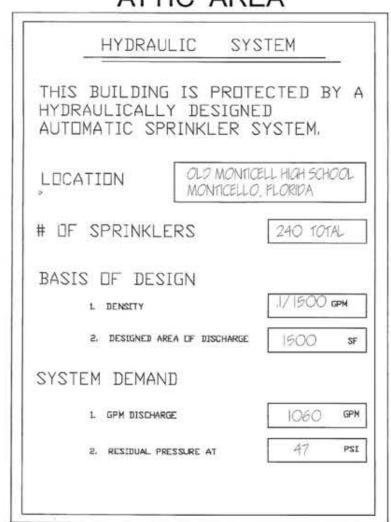
SHEET TITLE

**AS-BULT** FIRE SPRINKLER **PLANS** 

SHEET NO REV NO F402



#### ATTIC AREA



HYDRAULIC CALC. DETAIL

PIPE HANGER DETAIL

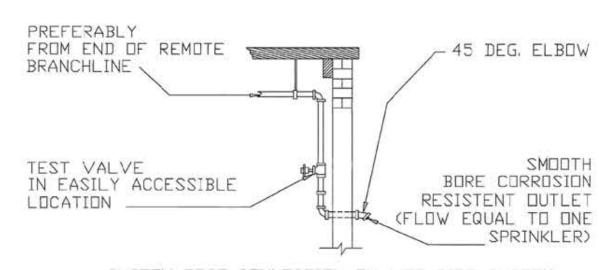
#### NFPA 14.1 Working Plans

LOCATION

- ◆ \_\_\_\_\_Name of owner & occupant.
- ♦ bille har Location, including steet address
- \* below drawng (top.) Point of compass
- \_\_\_\_\_Full height cross section, or schematic diagram, including structrual member information if required for clarity and including celling construction and method of protection for nonmetallic piping
- N/A Location of partitions
- N/A Location of fire walls
  refer to cake
  Appende Occupancy class of each area or room

  Activation supposes

  Occupancy class of each area or room
- \* Duration taken award ocation & size of concealed spaces, closet, attics, and bathrooms ❖ \_\_N/A \_\_Anu small enclosures in which no sprinklers are to be installed
- deadend, direction and distance to nearest circulation main: and city main test results and system elevation relative to test hydrant (A.5.1.8)
- N/A Other sources of water supply, with pressure or elevation \* \_\_\_\_\_\_Make, tupe, model, and nominal K-factor of sprinklers includeing
- sprinkler identification number ♦ N/A Temperature rating and location of high-temperature sprinklers
- \* "uster for and fun fotal area protected by each system on each floor
- on cover shoot. Number of sprinklers on each riser per floor ❖ <u>on covershoot</u> Total number of sprinklers on each dry pipe system, pre-action
- system, combined dry pipe-preaction system, or deluge system ❖ N/A Approximate capacity in gallons of each dry pipe system
- \* Pipe type and schedule of wall thickness • \_\_\_\_\_Nominal pipe size and cutting lengths of pipe (or center-to center dimensions, where tupical branch lines prevail, it shall be necessary to size only
- \_\_\_\_\_\_\_ Tupe of fittings and joints and location of all welds and bends, The contractor shall specify on drawing, any sections to be shop welded and the tupe of fittings or formations to be used



FIELD VARIFY LOCATION

Location series Kind and location of alarm bells

- monitor nozzles, and related equipment

  refer to cate.

  Private fire service main sizes, lengths, locations, weights,
- ♦ \_\_N/A \_\_\_Where the equipment is to be installed as an addition to an
- \* PRICIPED Hydraulic reference points shown on the plan that correspond with comparable reference points on the hydraulic calculation sheets
- of water application, in-rack sprinkler demand, and the water required for hose streams, both inside and outside.
- \_\_\_\_\_\_\_ The total quantity of water and the pressure required noted at a common reference point for each sutsem.

SYSTEM TEST CONNECTION ON WET PIPE SYSTEM

LOCATION

sted as 1 or drawnes:

A detail on detail shoot Tupe and location of hangers, sleeves, braces, and methods of values which shorts, securing sprinkers when applicable

\* Lest (No.) Piping privisions for flushing

all conditions clear

◆ \_\_detail treet \_For hydraulically designed systems, the information on the hudraulic data nameplate

into her. Name and address of contractor

ITEM

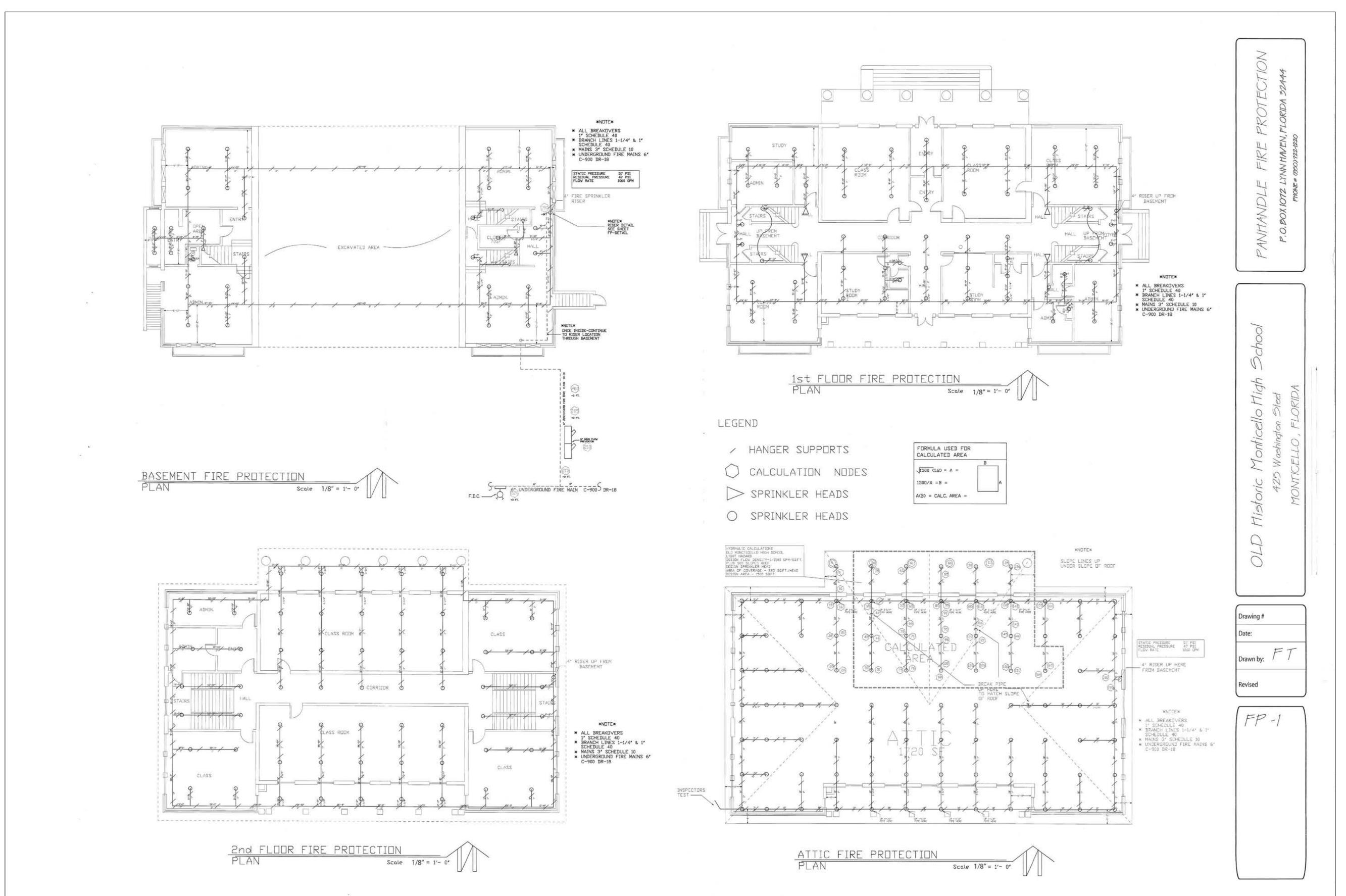
the top of the pipe is laid below grade

A graphic representation of the scale used on all plans

❖ 1305 labeled: FPI All control valves, check valves, drain pipes, and test connections ◆ \_\_\_\_\_\_Make, type, model, and size of alarm or dry pipe valve \* India to sale. Make, type model and size of pre-action or deluge valve \* N/A Size and location of standpipe risers, hose outlets, hand hose materials, point of connection to city main; the sizes, types and locations of valves, valve indicators, regulators, meters, and valve bits; and the depth that Revised existing sustan, enough of the existing system indicated on the plans to make

Drawing # Drawn by: /

FP -detail





ARCHITECTURE
PLANNING INTERIORS
GRAPHICS

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100% CONSTRUCTION DOCUMENTS

DATE
01 AUGUST 2019

PROJECT NO
65000

DRAWN BY
REW

CHECKED BY
REW

SHEET TITLE

AS-BULT FIRE SPRINKLER PLANS

SHEET NO **F403** 

03

REV NO