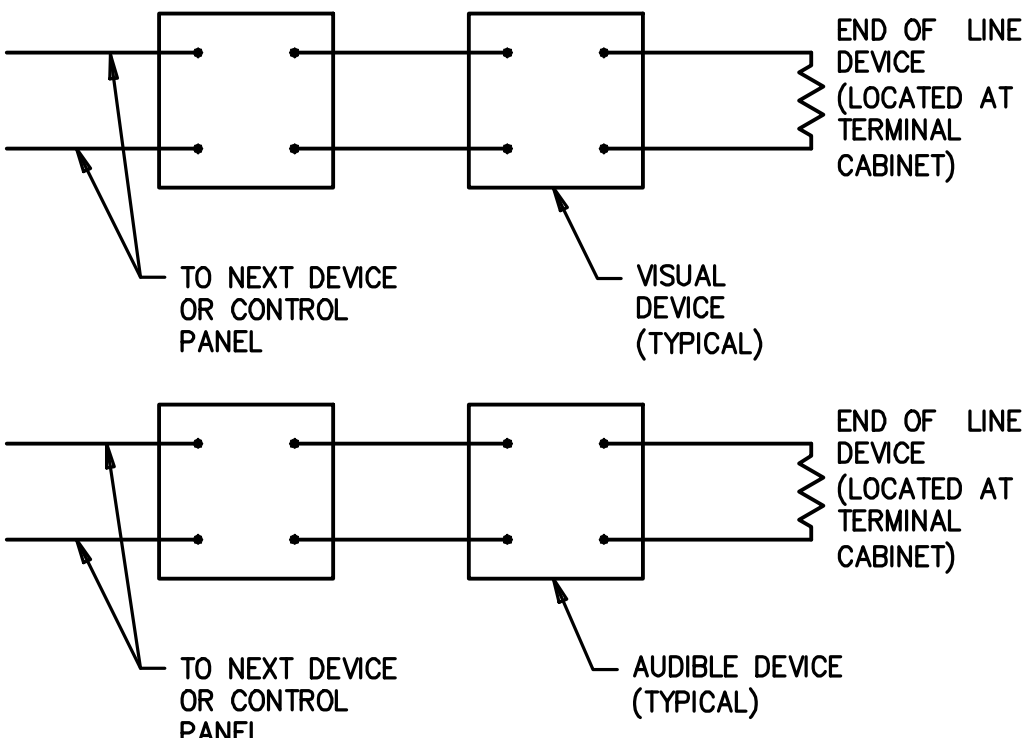


| ACTION                                 | DEVICES             |                           |                  |                |                  |
|----------------------------------------|---------------------|---------------------------|------------------|----------------|------------------|
|                                        | MANUAL PULL STATION | DUCT/SMOKE/HEAT DETECTORS | AC POWER FAILURE | SPRINKLER FLOW | SPRINKLER TAMPER |
| SOUND ALARM AT FACP                    | YES                 | YES                       | NO               | YES            | NO               |
| ACTIVATE RELAY FOR OFF-SITE MONITORING | YES                 | YES                       | YES              | YES            | YES              |
| SOUND TROUBLE BUZZER AT FACP           | ON WIRING FAULT     | ON WIRING FAULT           | YES              | NO             | YES              |
| ANNUNCIATE AT FACP                     | YES                 | YES                       | YES              | YES            | YES              |
| ACTIVE AUDIBLE AND VISUAL APPLIANCES   | YES                 | YES                       | NO               | YES            | NO               |
| WATER FLOW BELL                        | N/A                 | N/A                       | NO               | YES            | NO               |
| DAMPER ACTIVATION                      | YES                 | YES                       | NO               | YES            | NO               |
| HVAC SHUTDOWN                          | NO                  | YES                       | NO               | NO             | NO               |



ALL CATALOG NUMBERS REFER TO PRODUCTS OF GAMEWELL/FCI UNLESS OTHERWISE NOTED.

| ITEM DESCRIPTION                                                                                                                  | SYMBOL | MOUNTING        | CATALOG NO.                              | CSFM LISTING NO. |
|-----------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|------------------------------------------|------------------|
| FIRE ALARM CONTROL PANEL "FACP"                                                                                                   |        | +48"            | E3 SERIES                                | 7165-1703:0125   |
| NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY "NAC"                                                                                 |        | +48"            | HPF24S8                                  | 7315-1637:0102   |
| HORN ONLY DEVICE "WEATHERPROOF" (USE JOB WEATHERPROOF BACKBOX)                                                                    |        | +90"            | HRK                                      | 7135-1653:0189   |
| COMBINATION HORN AND VISUAL DEVICE SEPARATELY CIRCUITED ON FLUSH WALL MOUNTED OUTLET BOXES (15,75 OR 110 CANDELA AS INDICATED)    |        | +80"            | RSSP-24MCW-FR WITH MT (SET TO HORN TONE) | 7125-0785:141    |
| VISUAL DEVICE ON FLUSH WALL MOUNTED OUTLET BOX (NUMBER INDICATES 15, 75 OR 110 CANDELA RATING)                                    |        | +80"            | SR (SYSTEM SENSOR)                       | 7125-1653:0186   |
| COMBINATION HORN AND VISUAL DEVICE SEPARATELY CIRCUITED ON FLUSH CEILING MOUNTED OUTLET BOXES (15,75 OR 110 CANDELA AS INDICATED) |        | +80"            | SPSCR-24MCW                              | 7320-1653:0201   |
| ADDRESSABLE SMOKE DETECTOR ON FLUSH 4 SQUARE DEEP BOX WITH 3-0 RING. PHOTOELECTRIC TYPE                                           |        | CEILING         | ASD-PL2F/ B210LP (BASE)                  | 7272-1703:0121   |
| ADDRESSABLE HEAT DETECTOR 135° FIXED TEMPERATURE                                                                                  |        | AS NOTED        | ATD-RL2F/B501 (BASE)                     | 7270-1703:0115   |
| ADDRESSABLE MANUAL PULL STATION                                                                                                   |        | +48"            | MS-7AF                                   | 7150-1703:0119   |
| ADDRESSABLE RELAY CONTROL MODULE. 4 SQUARE DEEP BOX                                                                               |        | VERIFY IN FIELD | AOM-2RF                                  | 7300-1703:0102   |
| ADDRESSABLE MONITOR MODULE                                                                                                        |        | VERIFY IN FIELD | AMM-2F                                   | 7300-1703:0102   |
| FLOW SWITCH MONITORED BY ADDRESSABLE MONITOR MODULE                                                                               |        | VERIFY IN FIELD | AMM-2F                                   | 7300-1703:0102   |
| TAMPER SWITCH MONITORED BY ADDRESSABLE MONITOR MODULE                                                                             |        | VERIFY IN FIELD | AMM-2F                                   | 7300-1703:0102   |
| END OF LINE RESISTOR DEVICE                                                                                                       |        |                 |                                          |                  |

## SEQUENCE OF OPERATION MATRIX

NO SCALE

1

EF0.1

## TYPICAL SIGNAL CIRCUIT WIRING DIAGRAM

NO SCALE

2

EF0.1

## FIRE ALARM EQUIPMENT SCHEDULE

3

EF0.1

## FIRE ALARM SYSTEM NOTES

- THE FIRE ALARM SYSTEM SHOWN ON THESE DRAWINGS SHALL BE USED FOR CONSTRUCTION.  
APPLICABLE CODE FOR FIRE ALARM:  
2016 CALIFORNIA BUILDING CODE, TITLE 24 PART 2  
2016 CALIFORNIA ELECTRICAL CODE, TITLE 24 PART 3  
2016 NFPA 72 WITH CSFM AMENDMENTS  
2016 CALIFORNIA FIRE CODE, TITLE 24 PART 9.
- AUDIBLE DEVICES SHALL BE SIMILAR TO WHAT IS EXISTING ON CAMPUS. AUDIBILITY SHALL BE A MINIMUM OF 15 DB ABOVE AMBIENT NOISE, BUT NOT LESS THAN 75 DB AT 10'-0".
- THESE DRAWINGS SHALL SERVE AS SHOP DRAWINGS OF THE FIRE ALARM SYSTEM AND HAVE BEEN SUBMITTED TO THE DSA-ORS FOR REVIEW AND APPROVAL.
- THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLANS, ARE FOR CONSTRUCTION.
- THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF CALIFORNIA ELECTRICAL CODE. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE AUTHORITY HAVING JURISDICTION.
- THE FOLLOWING INFORMATION IS INCLUDED IN THESE PLANS:  
a. IDENTIFICATION OF TYPE OF WIRING USED  
b. FLOOR PLAN SHOWING NEW FIRE ALARM DEVICES.  
c. RISER DIAGRAM AND POINT TO POINT DIAGRAM  
d. CSFM LISTING SHEET SHOWING EXP. DATE FOR ALL COMPONENTS  
e. MFR'S SPEC SHEET ON ALL FIRE ALARM EQUIPMENT  
f. BATTERY AND VOLTAGE DROP CALCULATIONS FOR EACH PANEL WITH A BATTERY  
g. SYMBOLS OF ALL FIRE ALARM DEVICES INSTALLED  
h. ELEVATION DETAIL OF MANUAL STATION, STROBES, HORN/STROBES, AND HORNS
- SYSTEM OPERATION MATRIX: EFFECT OF THE OPERATION OF EACH FIRE ALARM DEVICE IS SHOWN ON THESE PLANS.
- FLASHING VISUAL WARNING DEVICES SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.
- STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED.
- MANUAL FIRE ALARM BOXES SHALL COMPLY WITH CEC 11B-309 AND CEC 11B-403.

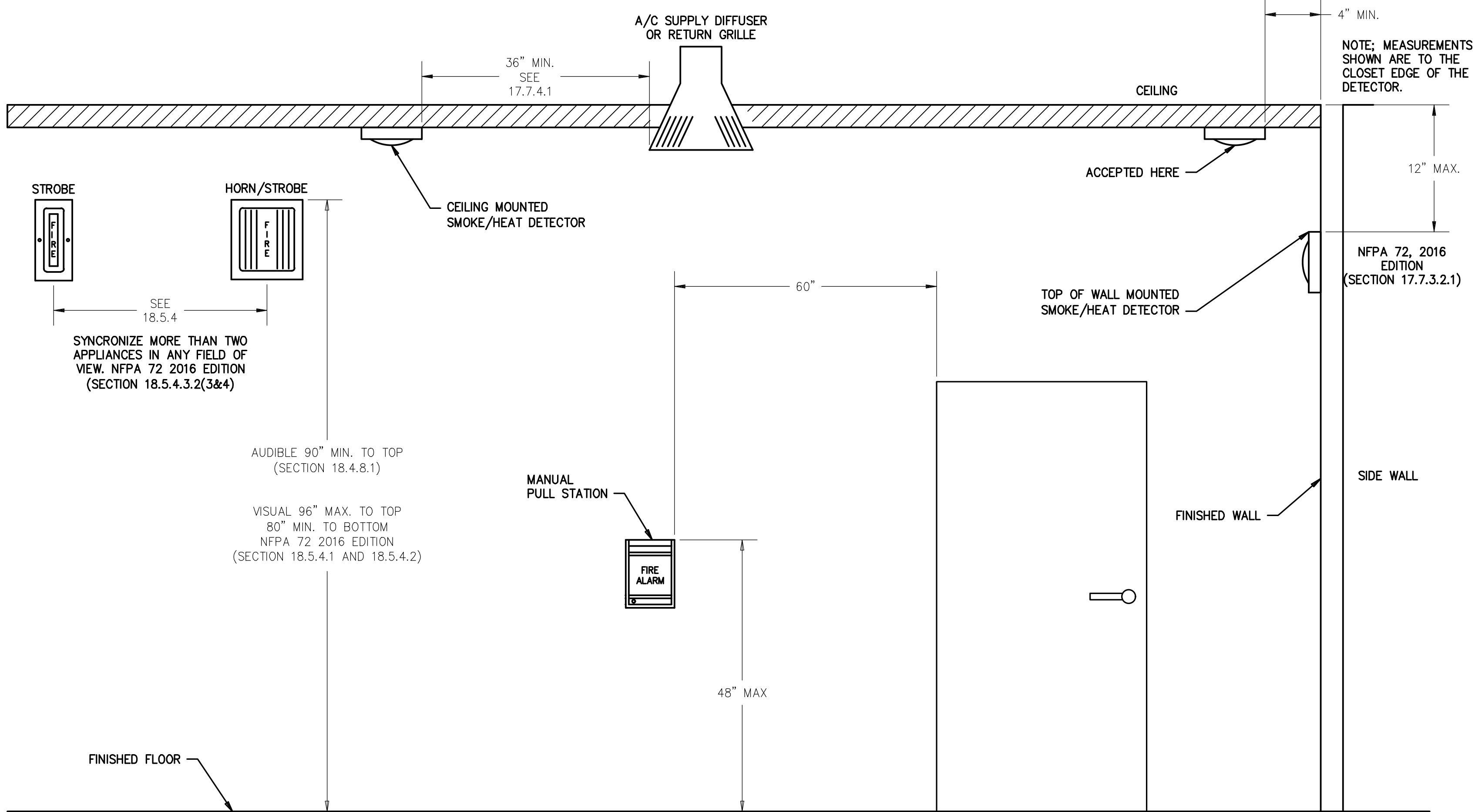
## SPECIAL NOTE

- EOL RESISTORS SHALL BE INSTALLED INSIDE EACH FIRE ALARM TERMINAL CABINET.
- PROVIDE THE FOLLOWING INSIDE EACH FATC CABINET: (2) DUAL SYNC MODULES AND (1) CONTROL MODULE.

## FIRE ALARM SYSTEM DESCRIPTION

THE FIRE ALARM SYSTEMS ARE MANUAL AND AUTOMATIC SYSTEMS. EACH SYSTEM IS SUPERVISED BY OFF-SITE DISTRICT PERSONNEL. THERE ARE TWO FIRE ALARM CONTROL PANELS, ONE TO SERVE THE NORTH SITE AND THE OTHER TO SERVE THE SOUTH SITE. ANY INITIATING DEVICE ACTIVATED WILL ACTIVATE THE NOTIFICATION DEVICES. THESE FIRE ALARM SYSTEMS ARE NOT CONNECTED TO EACH OTHER NOR TO THE GROSSMONT H.S CAMPUS FIRE ALARM SYSTEM.

UNDER THIS PROJECT NEW AUTOMATIC DEVICES, VISUAL AND AUDIBLE NOTIFICATION DEVICES, TAMPER FLOW SWITCHES AND APPLIANCE PANELS WILL BE CONNECTED TO THE CONTROL PANELS AS A GLASS B SYSTEM.



## FIRE ALARM DEVICE ELEVATIONS

NO SCALE

4

EF0.1

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PROJECT # 16494  
H:16494 02/13/18 - 12:14PM  
01/18/16494.DWG. EQUIP. MAINTENANCE & OPERATIONS FACILITY 16494.DD:ACAPROJ  
16494-SU-EF0.1 FIRE ALARM TITLE SHEET.DWG

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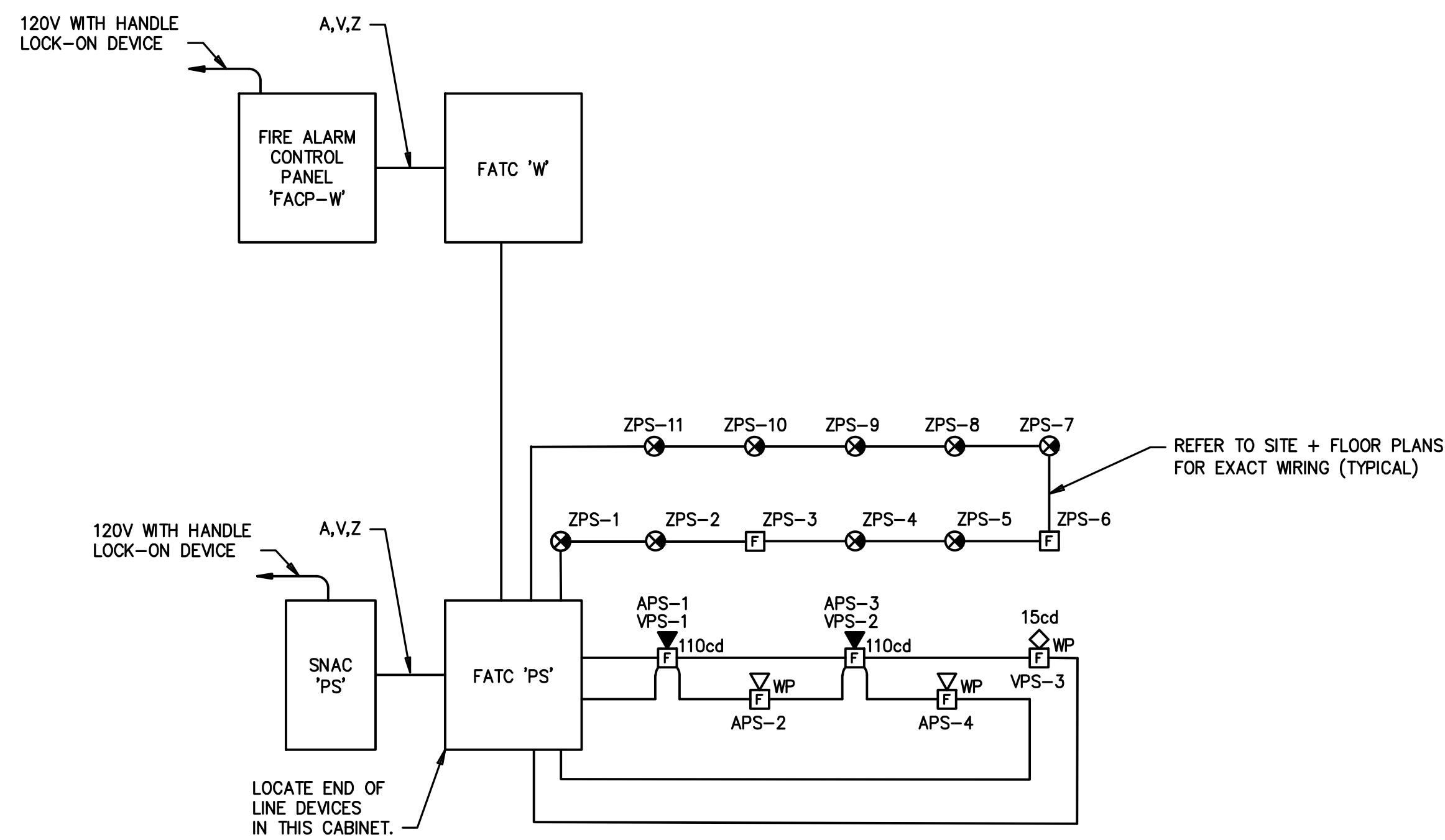
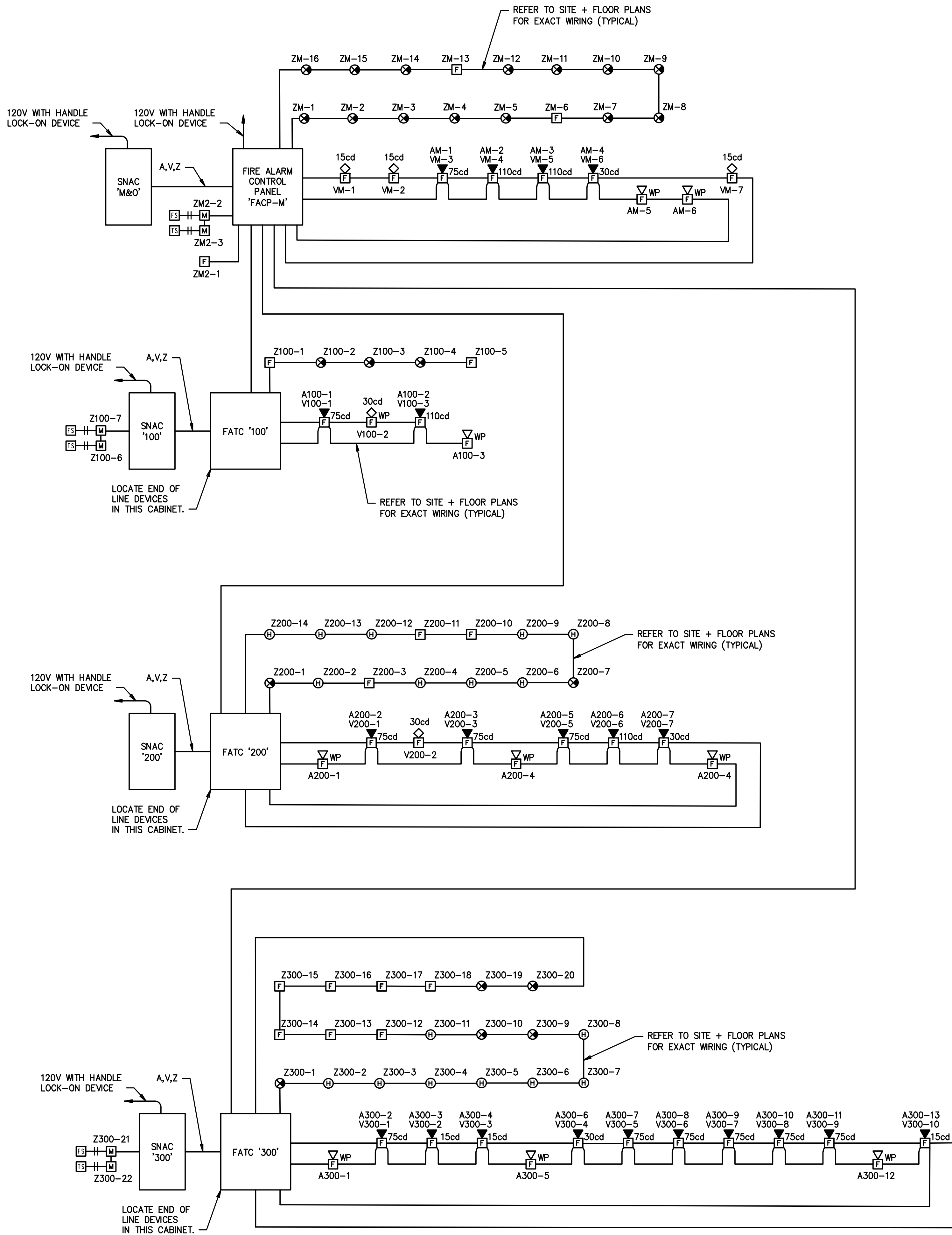
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**MAINTENANCE & OPERATIONS FACILITY**

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FIRE ALARM TITLE SHEET

**EF0.1**



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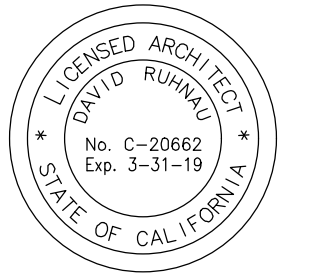
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16494-SU\_EFD.2 FIRE ALARM RISER DIAGRAM.DWG





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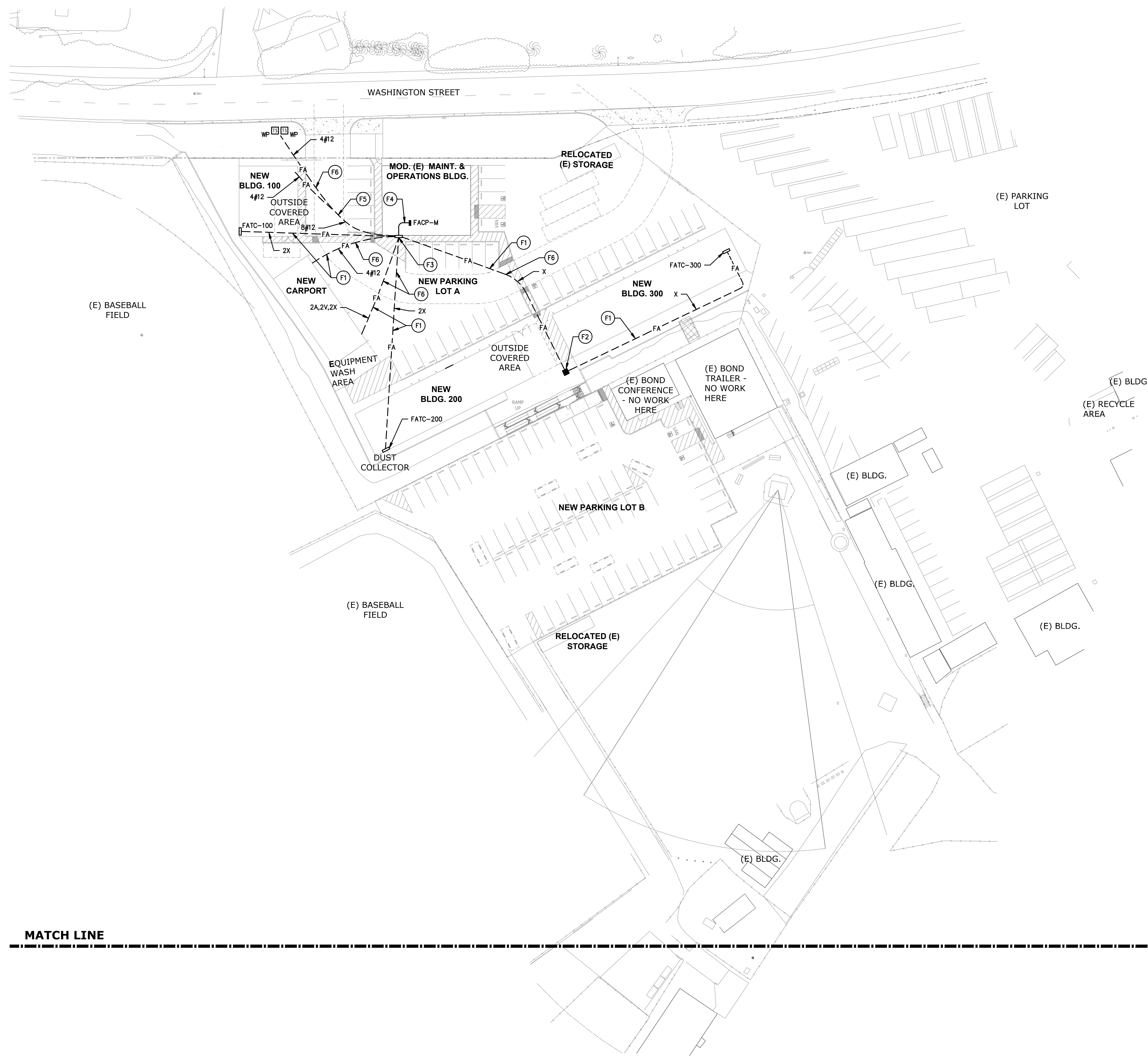
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FIRE ALARM RISER DIAGRAM

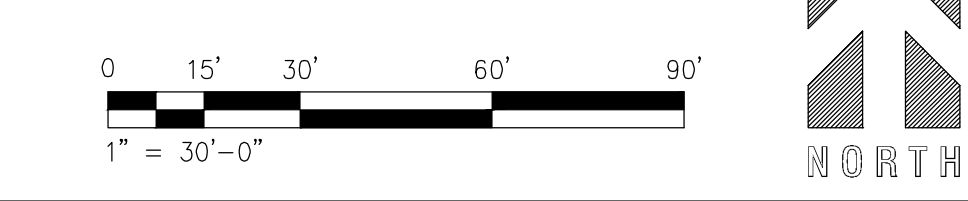
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- KEYNOTES**
- F1 2" CONDUIT WITH FIRE ALARM WIRING AS INDICATED. REFER TO DETAIL 2/E9.4.
  - F2 FIRE ALARM PULLBOX. REFER TO DETAIL 3/E9.2.
  - F3 12"x12"x3" NEMA 3R PULLBOX. 10'-0" AFG.
  - F4 1 1/4" CONDUIT CONCEALED ABOVE CEILING, WITH FIRE ALARM WIRING AS INDICATED.
  - F5 1" CONDUIT WITH FIRE ALARM WIRING AS INDICATED.
  - F6 PROVIDE 2500 PSI CONCRETE ENCASEMENT FOR CONDUITS BELOW FIRE LANE. REFER TO DETAIL 2/E9.4.

MATCH LINE



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PARTIAL SITE PLAN - NORTH MODERNIZATION FIRE ALARM

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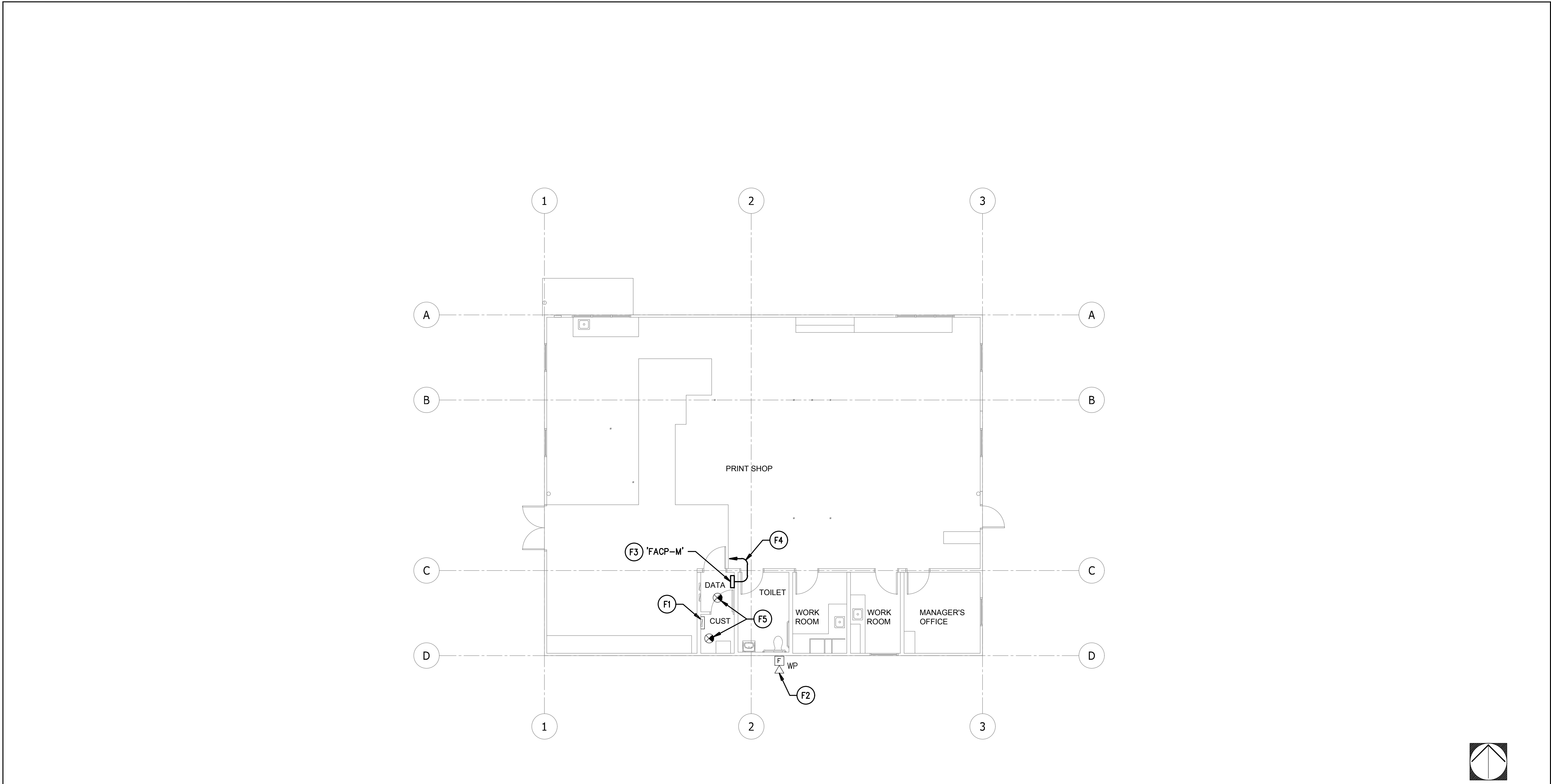
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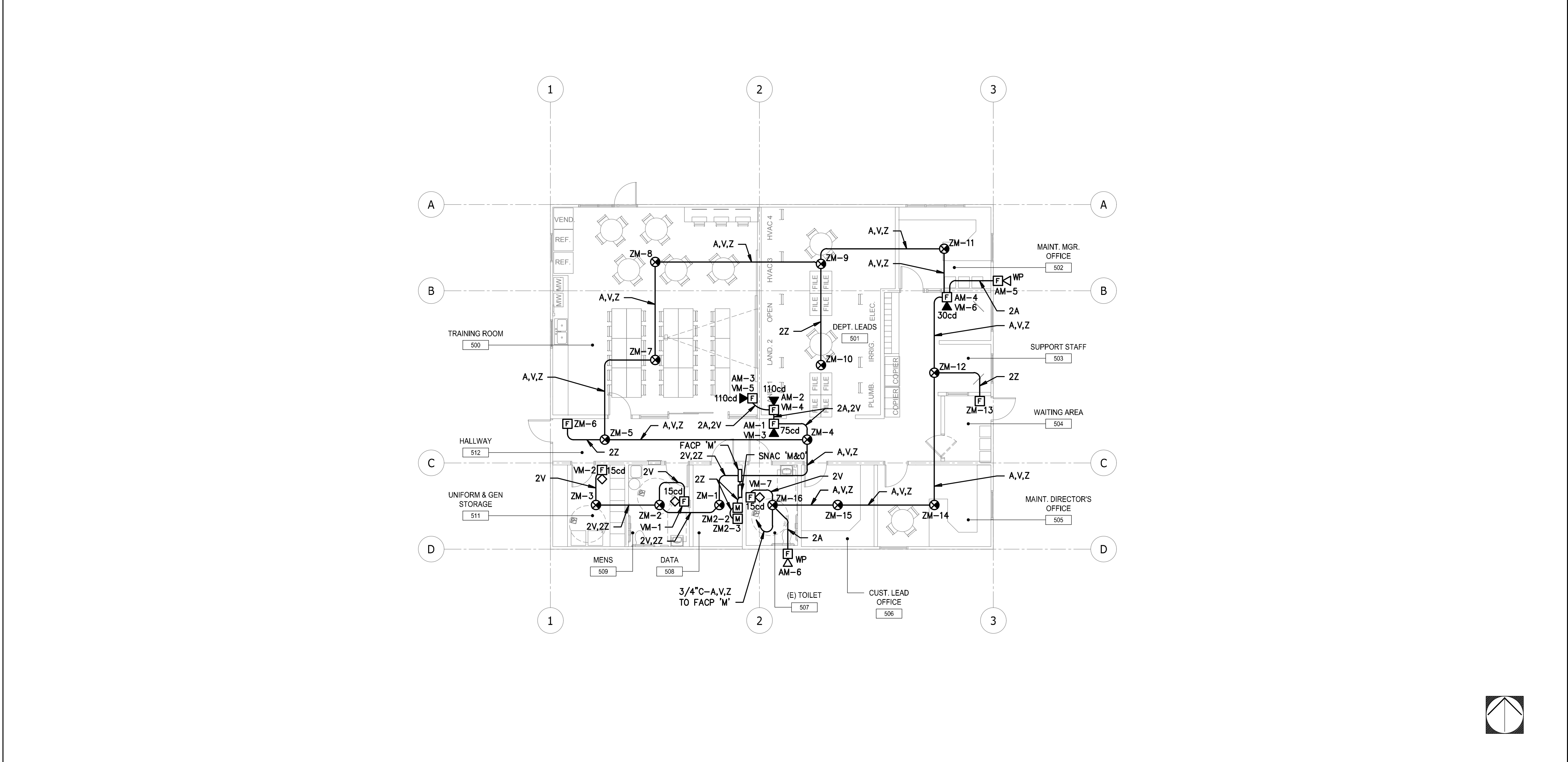
PARTIAL SITE PLAN - NORTH MODERNIZATION FIRE ALARM

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MAINTENANCE & OPERATIONS BUILDING - FIRE ALARM PLAN 1/8" 1

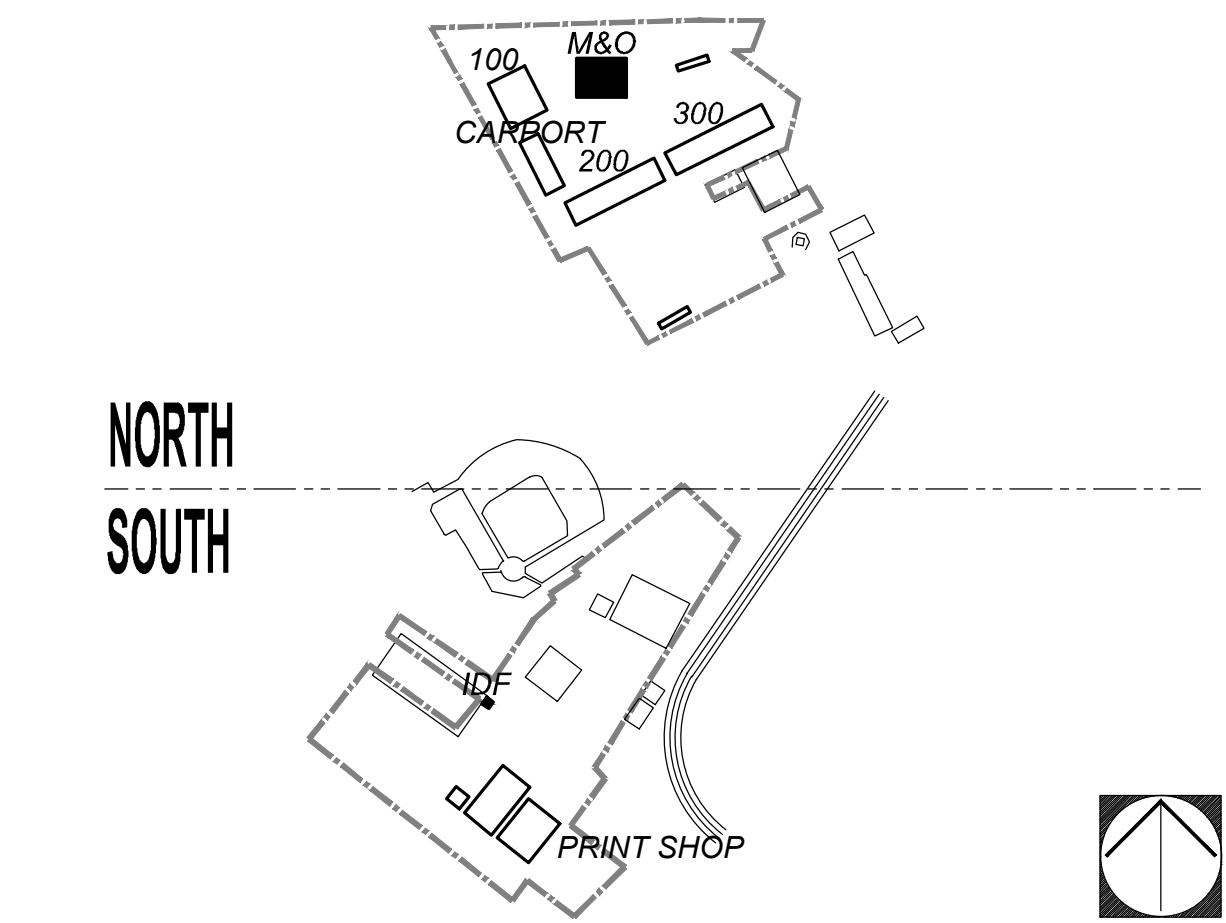


MAINTENANCE & OPERATIONS BUILDING - FUTURE REMODEL FIRE ALARM PLAN 1/8" 1

- KEYNOTES**
- F1 EXISTING FACP FOR BUILDING TO REMAIN (FCI 7100). ALL FIRE ALARM DEVICES AND WIRING FOR THIS BUILDING TO REMAIN.
  - F2 EXISTING EXTERIOR FIRE ALARM HORN TO REMAIN.
  - F3 LOCATE NEW FACP FOR NORTH M&O SITE IN EXISTING BUILDING.
  - F4 PROVIDE DEDICATED 120V BRANCH CIRCUIT FROM EXISTING 20A-1P SPARE CIRCUIT BREAKER IN EXISTING PANEL 'A'. PROVIDE RED LOCK-ON DEVICE.
  - F5 EXISTING SMOKE DETECTORS.

| FIRE ALARM WIRING SCHEDULE |                                          |
|----------------------------|------------------------------------------|
| DESIG.                     | DESCRIPTION                              |
| A                          | AUDIBLE CIRCUIT, 2#12 THHN/THWN          |
| B                          | AUDIBLE CIRCUIT, 2#12 THHN/THWN          |
| V                          | VISUAL CIRCUIT, 2#12 THHN/THWN           |
| X                          | ADDRESSABLE LOOP, 1#16 TP, WET LOCATIONS |
| Z                          | ADDRESSABLE LOOP, 1 PR. #18 TSP          |
| S                          | REPORTING CIRCUIT, 2 PR. #18             |

\* ALL FIRE ALARM WIRING SHALL BE ROUTED IN 3/4" C EMT (MINIMUM) BUT NOT LESS THAN INDICATED ON FLOOR PLANS  
TP = TWISTED PAIR  
TSP = TWISTED SHIELDED PAIR



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