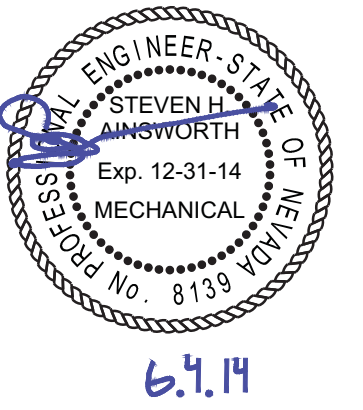




CARSON CITY  
FLEET  
MAINTENANCE  
FACILITY  
EXPANSION

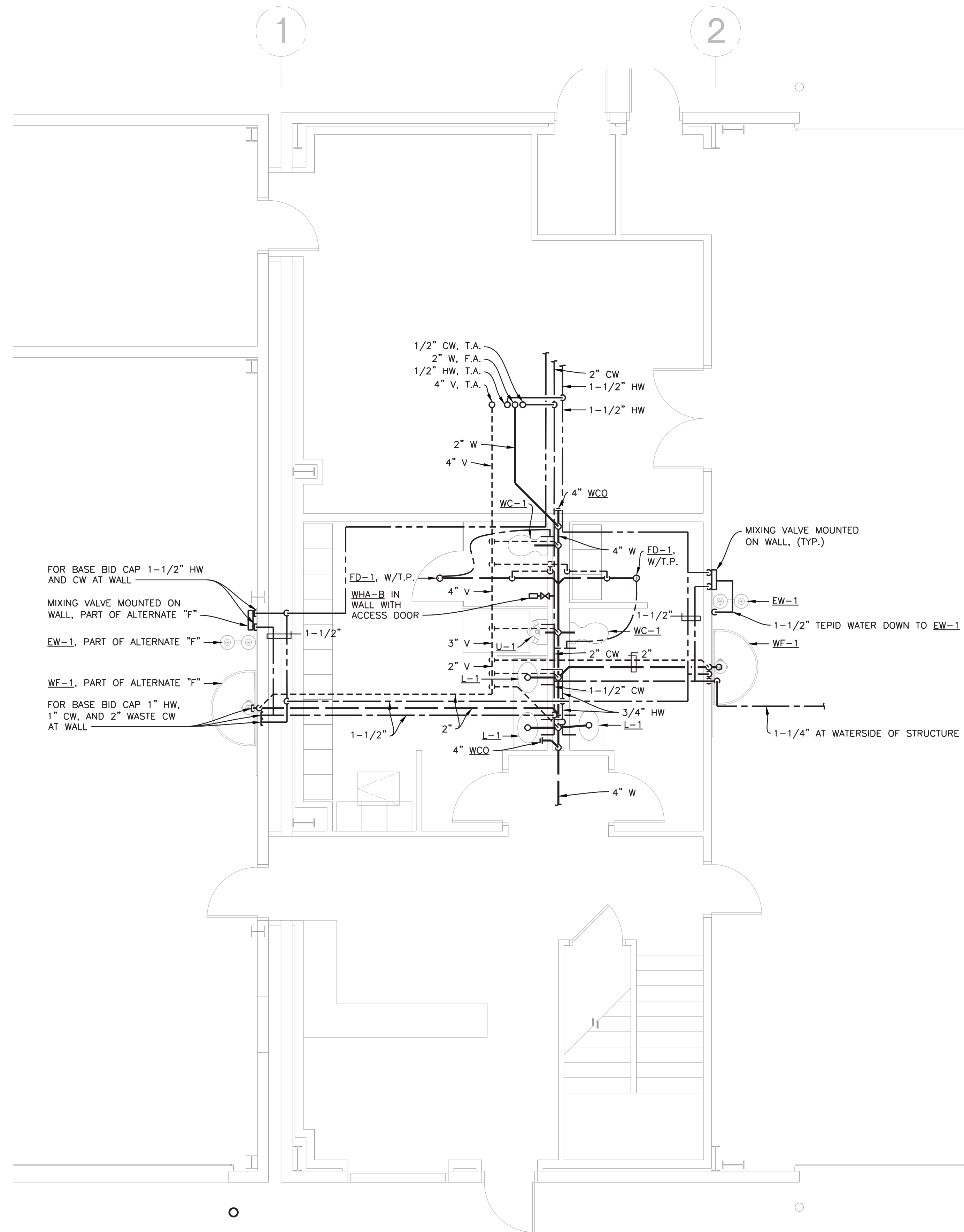
CARSON CITY,  
NEVADA

|         |        |
|---------|--------|
| DATE    | 6-2-14 |
| JOB NO  | 796    |
| DRAWN   | JSH/ER |
| CHECKED | SA     |

 BUILDING DEPARTMENT COMMENTS  
4/24/14

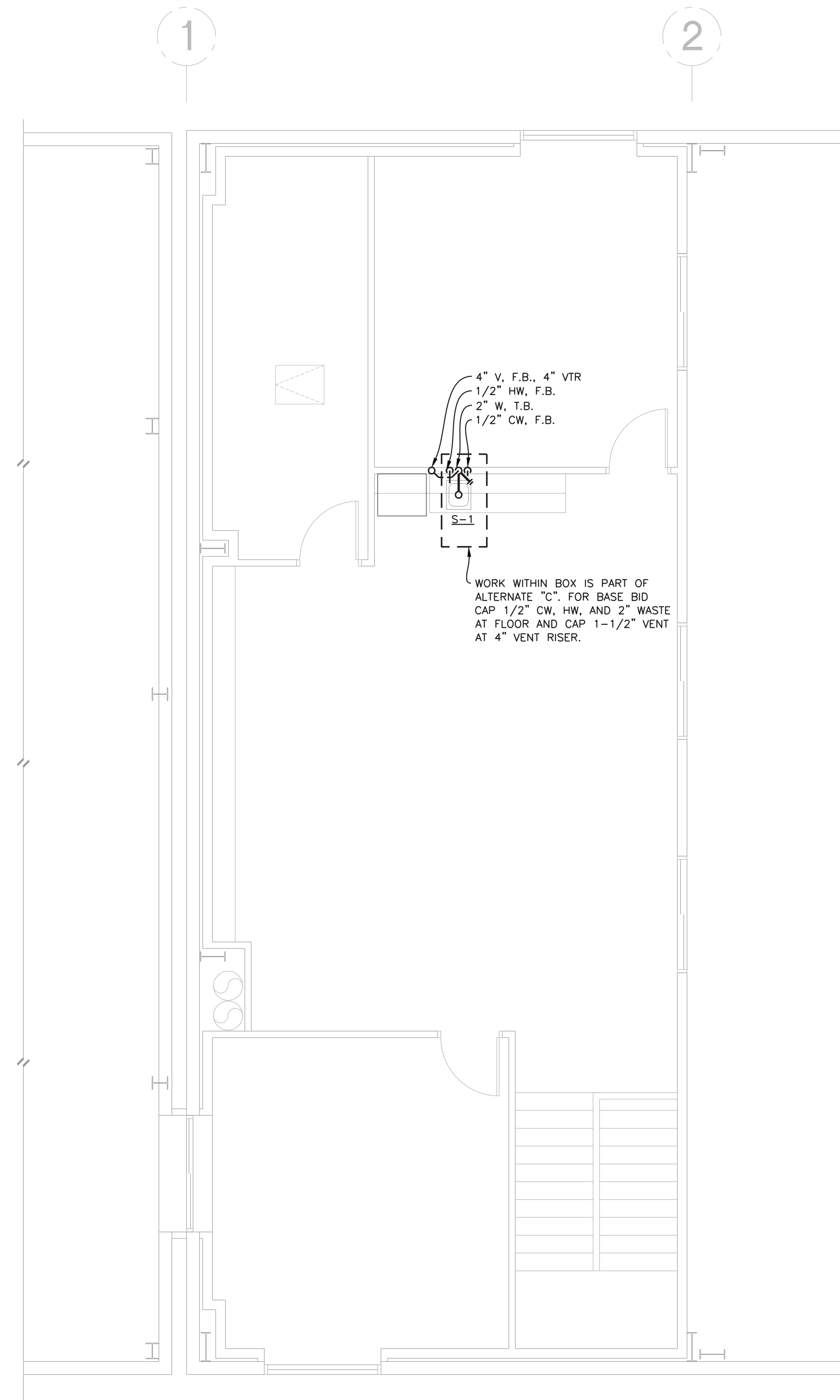
ENLARGED  
PLUMBING PLANS

P2.2



 ENLARGED FIRST FLOOR PLUMBING PLAN  
SCALE: 1/4" = 1'-0"

A  
P2.2



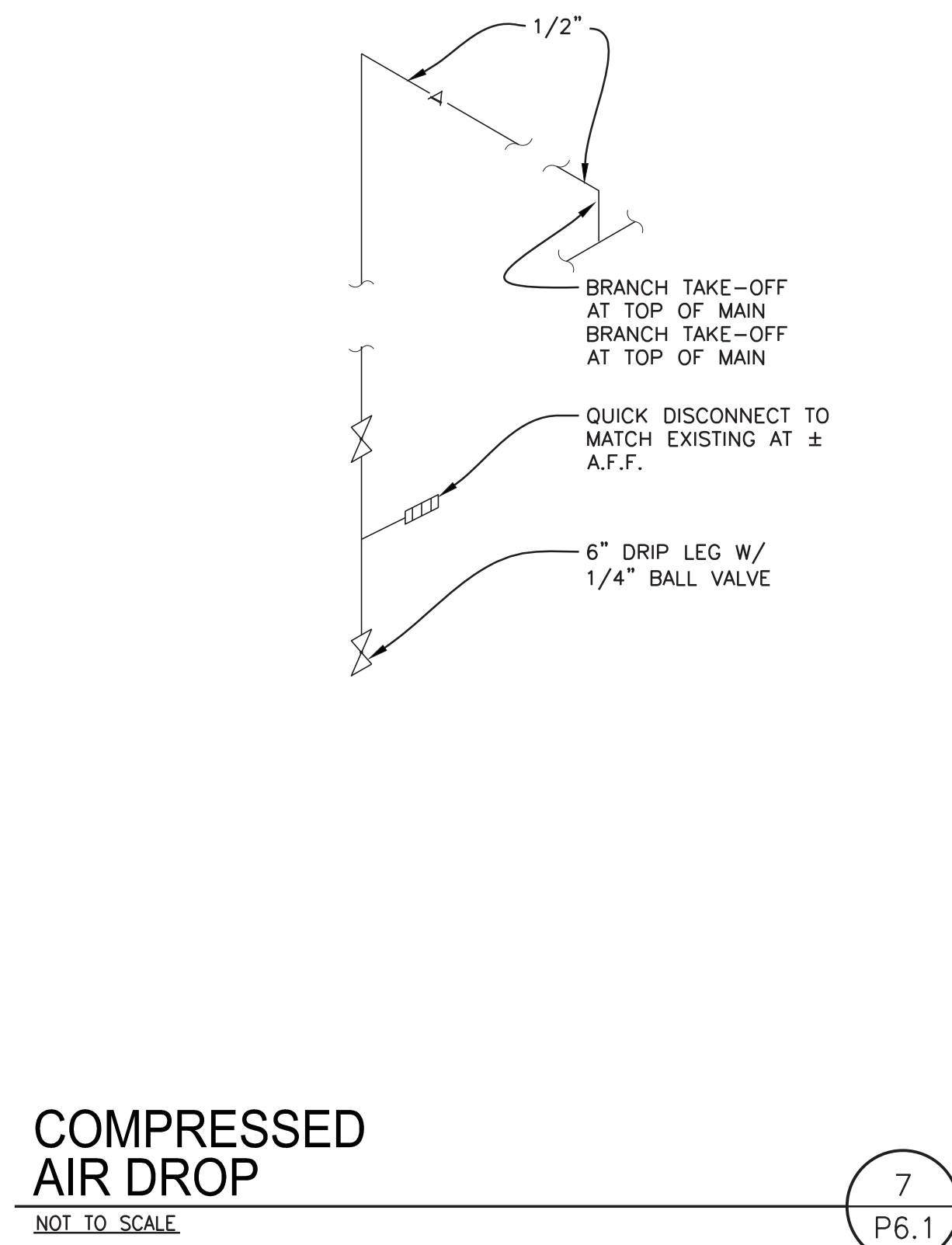
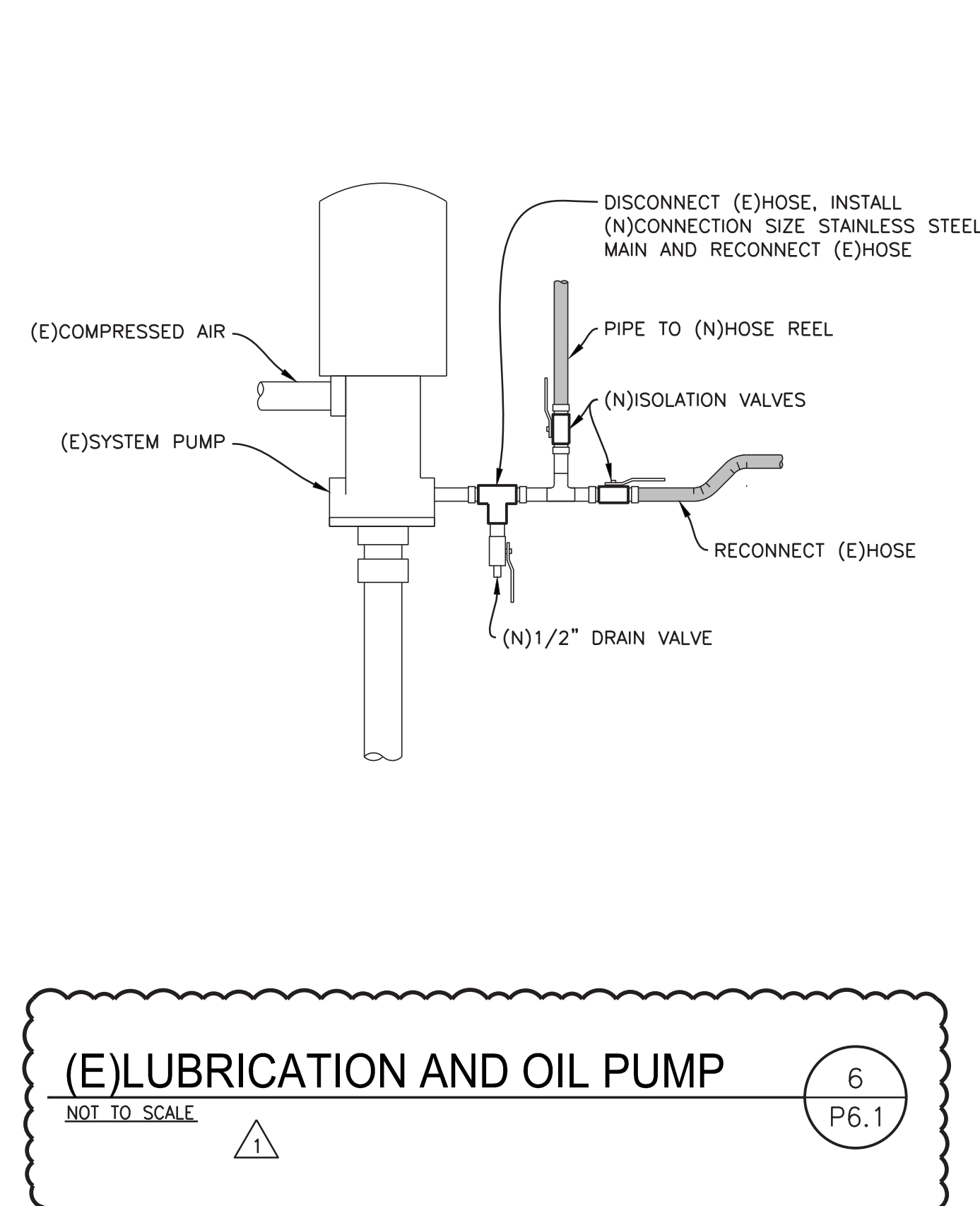
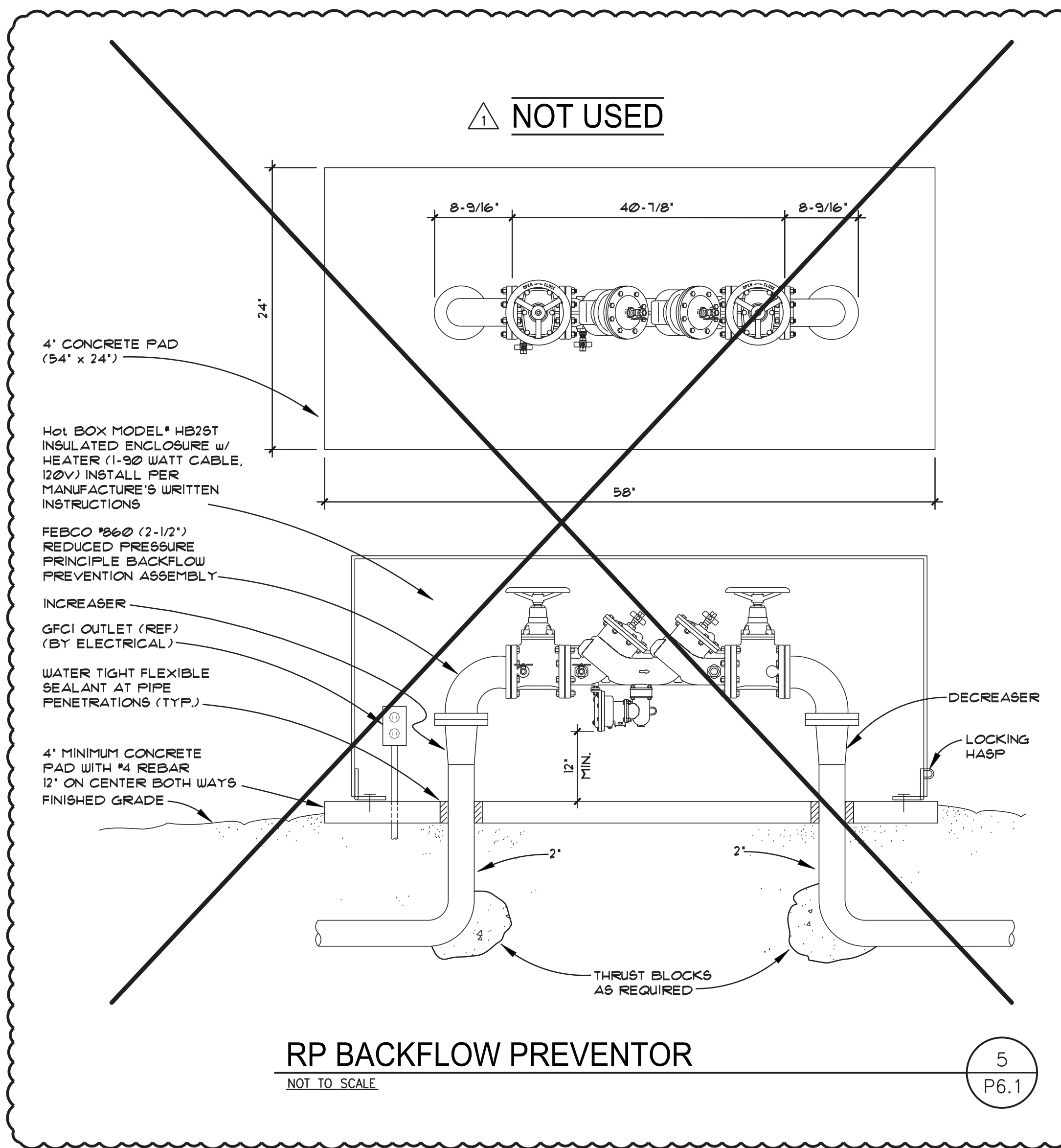
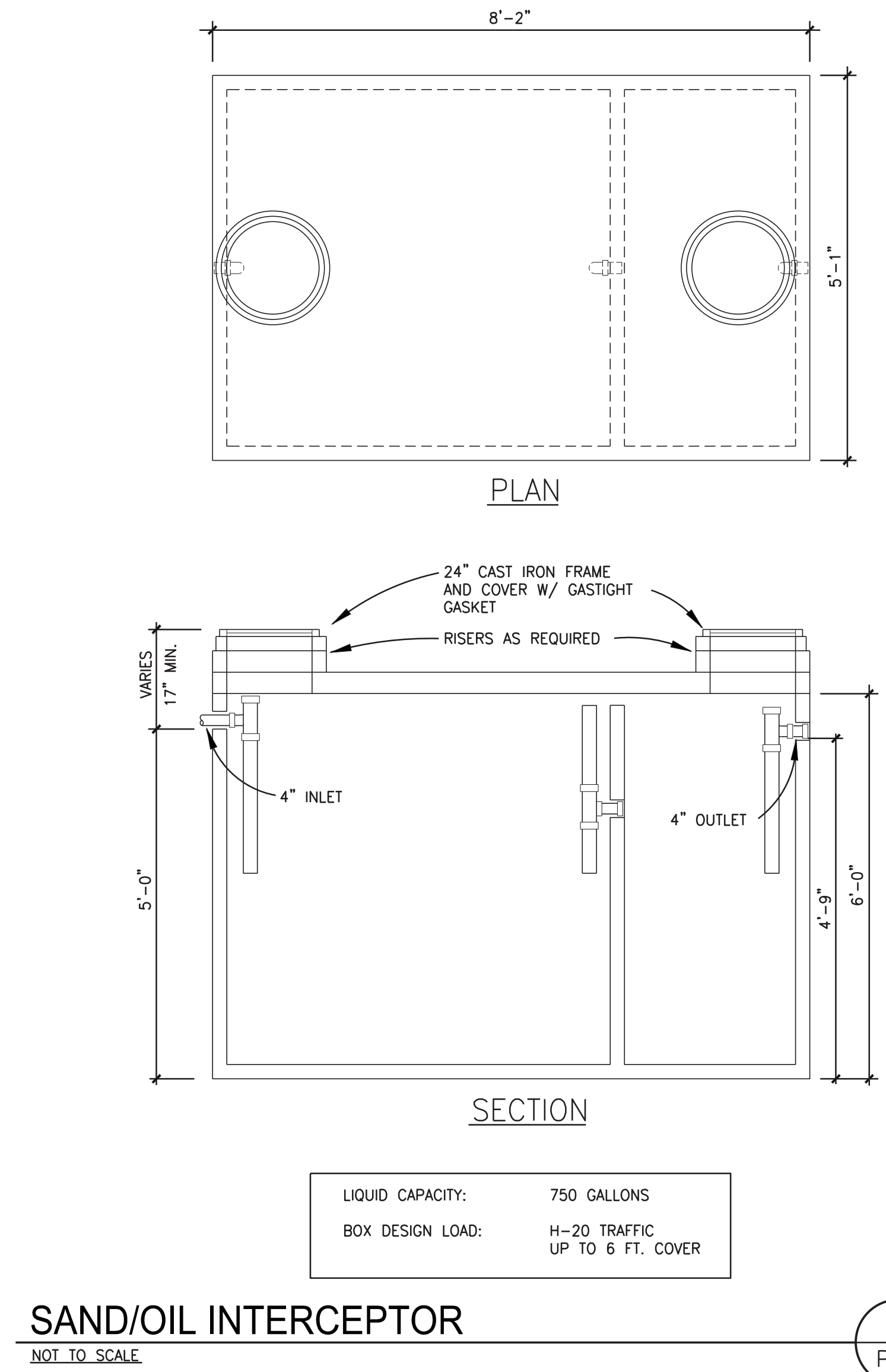
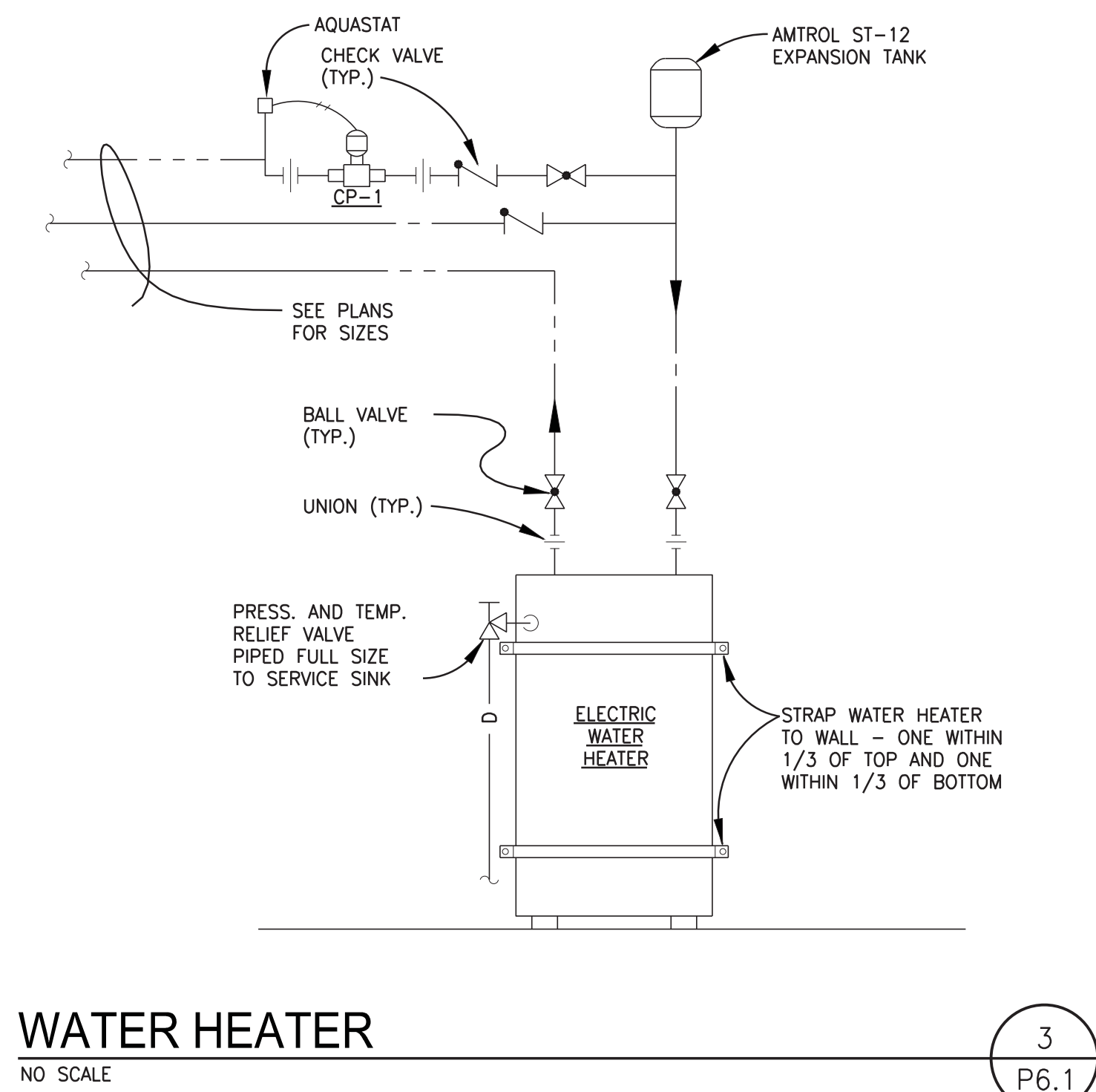
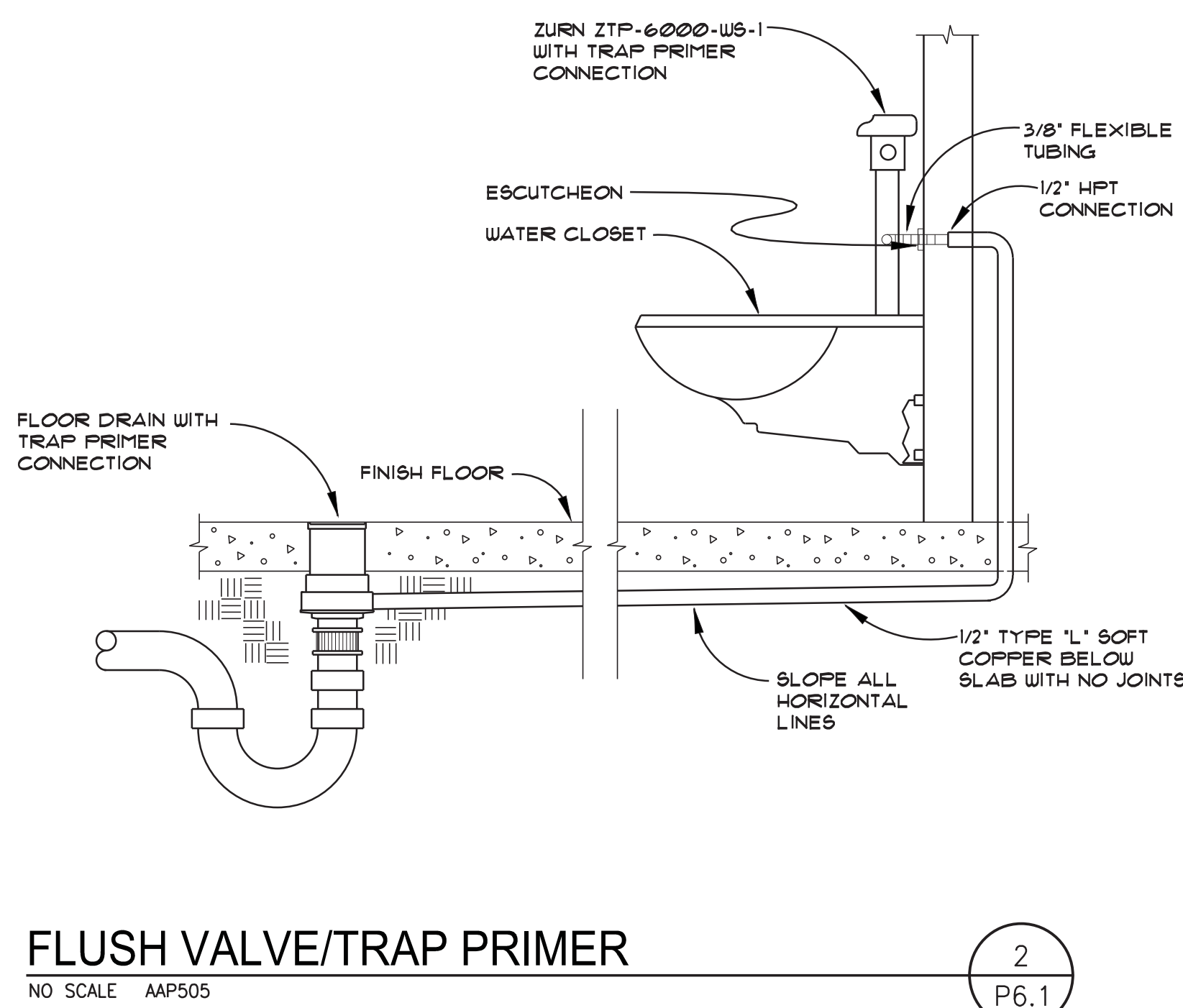
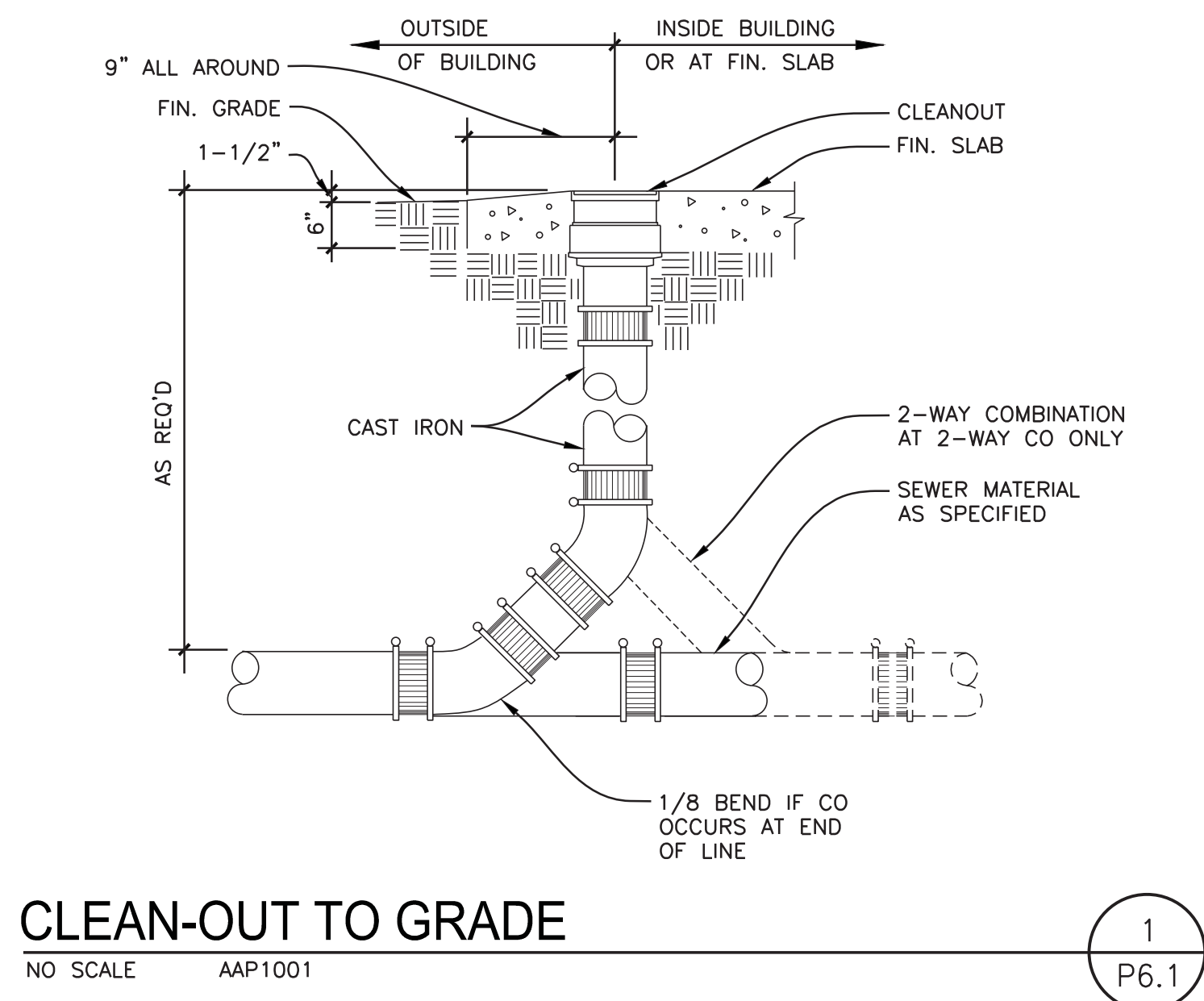
 ENLARGED SECOND FLOOR PLUMBING PLAN  
SCALE: 1/4" = 1'-0"

B  
P2.2



AINSWORTH ASSOCIATES  
MECHANICAL ENGINEERS  
3741 BUSINESS DR. 1420 HOLCOMB AVE., SUITE 201  
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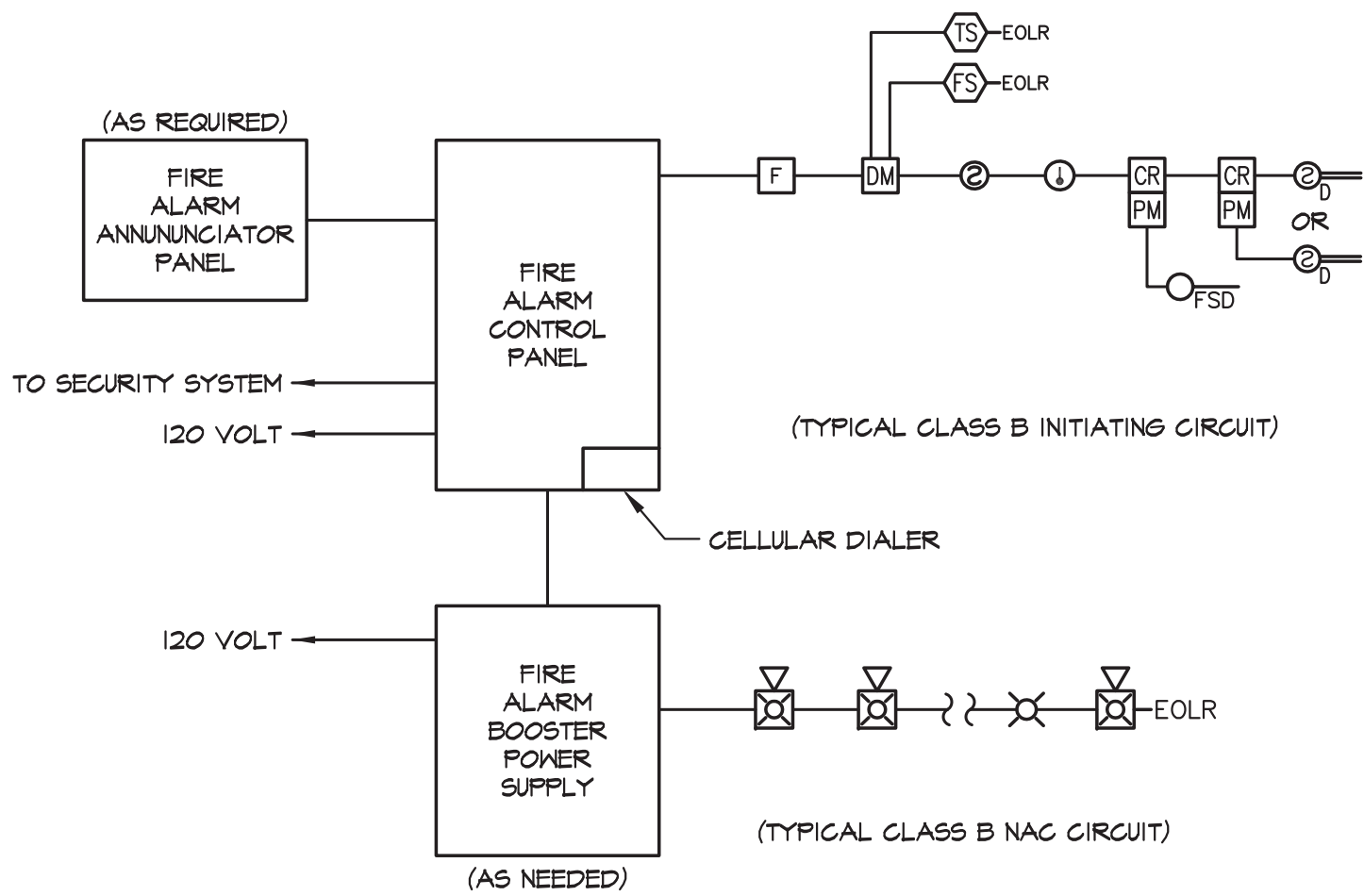
JOB: 2013-056



| FIRE ALARM MASTER LEGEND & GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                       |  |                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FIRE ALARM CONTROL PANEL (FACP) OR REMOTE ANNUNCIATOR PANEL (FAAP): FLUSH MOUNTED, 60" TO CL OF LCD DISPLAY                                           |  | HORN: WALL MOUNT 90" AFF TO TOP OF DEVICE AND NOT LESS THAN 6" BELOW CEILING                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FIRE ALARM CONTROL PANEL (FACP) / REMOTE ANNUNCIATOR PANEL (FAAP) / VOICE EVAC PANEL (FVAP): SURFACE MOUNTED, 60" TO CL OF LCD DISPLAY.               |  | HORN: CEILING MOUNT                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BOOSTER POWER SUPPLY (BPS): SURFACE MOUNTED                                                                                                           |  | HORN/STROBE: WALL MOUNT 80" AFF TO BOTTOM OF LENS<br>NOTE CANDELA                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MANUAL PULL STATION: MOUNT AT 48" TO CENTER LINE UNO                                                                                                  |  | HORN/STROBE: CEILING MOUNT<br>NOTE CANDELA                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SMOKE DETECTOR: (P) PHOTOELECTRIC, (I) IONIZATION, (M) MULTI TECHNOLOGY, (H) HORN (L2) LOCAL-ONLY 120V W/INTEGRAL BATTERY: CEILING MOUNT / WALL MOUNT |  | SPEAKER: WALL MOUNT 90" AFF TO TOP OF DEVICE AND NOT LESS THAN 6" BELOW CEILING                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LOCAL-ONLY SMOKE DETECTOR: 120V, INTEGRAL BATTERY, WITH HORN & STROBE, CEILING MOUNT OR WALL MOUNT AT 12" BELOW CEILING.                              |  | SPEAKER: CEILING MOUNT                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BEAM DETECTOR: (BT) TRANSMITTER, (BR) RECEIVER WALL MOUNT PER MANUFACTURERS SPECIFICATIONS                                                            |  | SPEAKER/STROBE: WALL MOUNT 80" AFF TO BOTTOM OF LENS<br>NOTE CANDELA                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HEAT DETECTOR: (ROR) RATE OF RISE, (F) FIXED, TEMP 135° OR 160° CEILING MOUNT / WALL MOUNT                                                            |  | SPEAKER/STROBE: CEILING MOUNT<br>NOTE CANDELA                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MONITOR MODULE: AT OR NEAR DEVICE                                                                                                                     |  | STROBE: WALL MOUNT 80" AFF TO BOTTOM OF LENS<br>NOTE CANDELA                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CONTROL RELAY MODULE: AT OR NEAR DEVICE                                                                                                               |  | STROBE: CEILING MOUNT<br>NOTE CANDELA                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ISOLATOR MODULE: AT OR NEAR DEVICE                                                                                                                    |  | FIRE BELL: MOUNTED PER LOCAL CODE                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MULTI-VOLTAGE RELAY: AT OR NEAR DEVICE                                                                                                                |  | FIRE ALARM JUNCTION BOX, W/RED COVER & FA CKT LABEL                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SINGLE INPUT MODULE: AT OR NEAR DEVICE                                                                                                                |  | HOOD FIRE SUPPRESSION SYSTEM CONNECTION                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DUAL INPUT MODULE: AT OR NEAR DEVICE                                                                                                                  |  | REMOTE ALARM LAMP                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MAGNETIC DOOR HOLDER: SYSTEM POWERED AND CONTROLLED UNO, MOUNTING PER PLANS                                                                           |  | FIRE SPRINKLER FLOW SWITCH                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FIREMAN'S PHONE: MOUNTED AT 48" TO TOP UNO, JACK OR HANDSET                                                                                           |  | FIRE SPRINKLER TAMPER SWITCH                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | END OF LINE RESISTOR                                                                                                                                  |  | FIRE/SMOKE DAMPER: COORDINATE INSTALLATION AND MOTOR DE-ENERGIZE PROCEDURES WITH MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAY, POWER, AND CONTROL WIRE AS NECESSARY. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PIV VALVE                                                                                                                                             |  | DUCT SMOKE DETECTOR: 1 EA AT SUPPLY (2000 CFM)<br>1 EA RETURN & SUPPLY (15,000 CFM)                                                                                                        |
| NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 1. THE CONTRACTOR SHALL SERVE AS THE CITY/STATE LICENSED DESIGNER AND INSTALLER FOR THE FIRE ALARM SYSTEM. A COMPLETE TURN-KEY SYSTEM SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR INCLUDING BUT NOT LIMITED TO THE CONTROL PANEL, DEVICES, MODULES, EQUIPMENT ETC. REQUIRED FOR A COMPLETE SYSTEM. INSTALL AN APPROVED MANUAL, AUTOMATIC, OR MANUAL AND AUTOMATIC FIRE ALARM SYSTEM IN ACCORDANCE WITH THE PROVISIONS OF THE IFG, IBC, NFPA-70, NFPA-72, NFPA-101, NEC 760, ADA AND LOCAL AHJ REQUIREMENTS.                                                         |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 2. THE CONTRACTOR'S DESIGN AND BID SHALL BE BASED ON ALL PROJECT DRAWINGS AND SPECIFICATIONS FOR ALL DISCIPLINES, INCLUDING BUT NOT LIMITED TO MECHANICAL, FIRE SPRINKLER, KITCHEN, ARCHITECTURAL, SECURITY, BUILDING AUTOMATION, AND STRUCTURAL SYSTEMS. FIRE ALARM DEVICES AS SHOWN ON PLANS ARE SHOWN DIAGRAMMATICALLY FOR BIDDING PURPOSES ONLY AND IS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS AS MINIMUM CRITERIA. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL AHJ AND COMPLY WITH APPLICABLE CODES FOR ANY ADDITIONAL DEVICES OR EQUIPMENT THAT MAY BE REQUIRED. |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 3. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE LOCAL AHJ AND THE ENGINEER OF RECORD.                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 4. FIRE ALARM SYSTEM SHALL BE CLASS 1 CIRCUITING AS REQUIRED BY LOCAL AHJ AND NFPA-72.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 5. ALL FIRE ALARM WIRING TO BE RUN IN 3/4" CONDUIT. ALL FIRE ALARM CONDUIT SHALL BE MANUFACTURED RED CONDUIT. (CONDUIT SHALL NOT BE SPRAY PAINTED).                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 6. BATTERY BACKUP SYSTEM SHALL BE CALCULATED TO PROVIDE A MINIMUM OF 24 HOURS OF STANDBY AND A MINIMUM OF 5 MINUTES OF ALARM OR PER AHJ REQUIREMENTS.                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 7. CONNECT TO THE TELEPHONE SYSTEM WITH DIAL OUT BY POINT (CITY OF RENO JURISDICTION ONLY). IF A SYSTEM IS SELECTED THAT DOES NOT HAVE DIAL OUT BY POINT, THEN THE SUB-CONTRACTOR SHALL PROVIDE A REMOTE ANNUNCIATOR AT ENTRANCE DESIGNATED BY LOCAL AHJ.                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 8. FIRE ALARM NOTIFICATION APPLIANCE CANDELA VALUE SHALL MEET THE REQUIREMENTS OF NFPA 72, BASED ON ROOM SIZE. IT IS THE CONTRACTORS RESPONSIBILITY TO ADD ADDITIONAL NOTIFICATION APPLIANCES AS REQUIRED WITH THE REQUIREMENTS OF NFPA 72.                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 9. MANUAL PULL STATIONS SHALL BE MOUNTED 48" TO CENTER OF DEVICE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 10. DETECTORS ARE NOT TO BE LOCATED IN A DIRECT AIRFLOW OR CLOSER THAN 3' FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING IN ACCORDANCE WITH NFPA-72 AJT.7.4.1, (2010).                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 11. DETECTOR LOCATION FOR DOOR HOLD ACTIVATION SHALL BE PER NFPA-72, 17.7.5.6.6.1, (1-3), (2010), WHEN REQUIRED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 12. AREA SMOKE DETECTION AND DUCT DETECTORS SHALL SHUT DOWN ALL MECHANICAL UNITS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                       |  |                                                                                                                                                                                            |
| 13. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A FINAL INSPECTION AND TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE LOCAL AHJ. A COPY OF THE RECORD OF COMPLETION AND CERTIFICATE OF OCCUPANCY SHALL BE SUBMITTED TO THE ENGINEER OF RECORD.                                                                                                                                                                                                                                                                                                      |                                                                                                                                                       |  |                                                                                                                                                                                            |

## ONELINE DIAGRAM NOTES

- ONELINE DIAGRAM IS FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE A ONELINE DIAGRAM THAT SHOWS ALL DEVICES, NEW AND EXISTING, AS THEY ARE CONNECTED ON THE FLOOR PLAN.



## FIRE ALARM SYSTEM ONELINE DIAGRAM

SCALE: NONE

## DRAWING SCHEDULE

| SHEET                  | DESCRIPTION                                                     | BUILDING DEPT. SUBMITTAL |
|------------------------|-----------------------------------------------------------------|--------------------------|
| E0.1                   | ELECTRICAL LEGEND, FIRE ALARM LEGEND, DETAIL & DRAWING SCHEDULE | ●                        |
| E0.2                   | ONELINE DIAGRAMS                                                | ●                        |
| E0.3                   | PANEL SCHEDULES & LOAD CALCULATIONS                             | ●                        |
| E0.4                   | FIXTURE SCHEDULE & IECC CALCULATIONS                            | ●                        |
| E0.5                   | DETAILS                                                         | ●                        |
| E0.6                   | DETAILS                                                         | ●                        |
| E1.1                   | ELECTRICAL DEMOLITION SITE PLAN                                 | ●                        |
| E1.2                   | ELECTRICAL SITE PLAN                                            | ●                        |
| E2.1                   | DEMOLITION LIGHTING PLANS                                       | ●                        |
| E2.2                   | DEMOLITION POWER & SIGNAL PLANS                                 | ●                        |
| E3.1                   | LIGHTING PLANS                                                  | ●                        |
| E3.2                   | POWER PLANS                                                     | ●                        |
| E4.1                   | SIGNAL PLANS                                                    | ●                        |
| TOTAL SHEETS IN ISSUE: |                                                                 | 13                       |

## ELECTRICAL LEGEND

AUGUST 2011

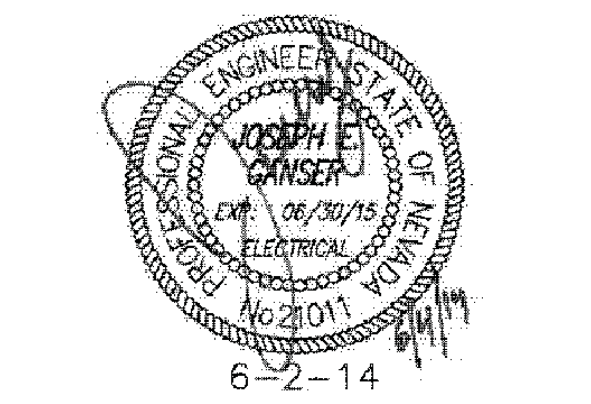
|  |                                                                                                                                  |  |                                                                                                                 |            |                                               |
|--|----------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------|
|  | PANELBOARD, SURFACE MOUNTED                                                                                                      |  | GROUND FAULT INTERRUPTER DEVICE                                                                                 | A          | AMPS                                          |
|  | PANELBOARD, FLUSH MOUNTED                                                                                                        |  | METERING DEVICE                                                                                                 | ADA        | AMERICANS WITH DISABILITIES ACT               |
|  | SWITCHBOARD OR DISTRIBUTION PANEL                                                                                                |  | REMOTE METER                                                                                                    | AFC        | ABOVE FINISHED CEILING                        |
|  | TRANSFORMER                                                                                                                      |  | SHUNT TRIP DEVICE                                                                                               | AFCI       | ARC-FAULT CIRCUIT INTERRUPTER                 |
|  | FULLBOX / VAULT                                                                                                                  |  | TRANSFORMER                                                                                                     | AFB        | ABOVE FINISHED FLOOR                          |
|  | MOTOR STARTER                                                                                                                    |  | CURRENT TRANSFORMER                                                                                             | AFG        | ABOVE FINISHED GRADE                          |
|  | COMBINATION MOTOR STARTER                                                                                                        |  | GENERATOR                                                                                                       | AHJ        | AUTHORITY HAVING JURISDICTION                 |
|  | COMBINATION MOTOR STARTER PROVIDED BY OTHERS                                                                                     |  | MOTOR - # INDICATES HP                                                                                          | AIC        | AMP INTERRUPTING CAPACITY                     |
|  | DISCONNECT SWITCH - FUSIBLE (FUSED PER EQUIP. NAMEPLATE)                                                                         |  | INTERRUPTER SWITCH                                                                                              | AL         | ALUMINUM                                      |
|  | DISCONNECT SWITCH - NON-FUSIBLE                                                                                                  |  | GROUND FAULT RELAY W/ GT OR SENSOR                                                                              | ATS        | AUTOMATIC TRANSFER SWITCH                     |
|  | DISCONNECT SWITCH PROVIDED BY OTHERS                                                                                             |  | FUSE                                                                                                            | AWG        | AMERICAN WIRE GAUGE                           |
|  | VARIABLE FREQUENCY DRIVE                                                                                                         |  | CIRCUIT BREAKER                                                                                                 | BC         | BARE COPPER                                   |
|  | VARIABLE FREQUENCY DRIVE PROVIDED BY OTHERS                                                                                      |  | DRAWOUT CIRCUIT BREAKER                                                                                         | BKR        | BREAKER                                       |
|  | ENCLOSED CIRCUIT BREAKER                                                                                                         |  | TRANSFER SWITCH (A=AUTOMATIC, M=MANUAL) # FOR POLES 2, 3 OR 4                                                   | C          | CONDUIT/RACEWAY                               |
|  | GROUND ROD                                                                                                                       |  | SURGE PROTECTION DEVICE                                                                                         | CEC        | CALIFORNIA ENERGY COMMISSION                  |
|  | SHUNT TRIP STATION OR EMERGENCY PUSHBUTTON                                                                                       |  | THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO)                                                                   | CKT        | CIRCUIT                                       |
|  | REMOTE METER                                                                                                                     |  | JUNCTION BOX (SIZE AS REQUIRED UNO)                                                                             | CLG        | CEILING                                       |
|  | LIGHTING FIXTURE - LOWERCASE LETTER DENOTES SWITCHING (a = CENTER LAMP, b = OUTER LAMPS)                                         |  | SHEET NOTE DESIGNATION                                                                                          | CO         | CONDUIT/RACEWAY ONLY                          |
|  | WALL MOUNTED FIXTURE                                                                                                             |  | FIXTURE DESIGNATION: FI=TYPE (SEE FIXTURE SCH.)                                                                 | CT         | CURRENT TRANSFORMER                           |
|  | RECESSED DOWNLIGHT                                                                                                               |  | REVISION DELTA: NUMBER REPRESENTS REVISION                                                                      | CU         | COPPER                                        |
|  | SURFACE LUMINAIRE                                                                                                                |  | FEEDER DESIGNATION                                                                                              | DB         | DISTRIBUTION BOARD                            |
|  | POLE MOUNTED LIGHT (# OF HEADS INDICATED ON DRAWING)                                                                             |  | EQUIPMENT CONNECTION                                                                                            | DDC        | DIRECT DIGITAL CONTROLLER                     |
|  | FLUORESCENT STRIP FIXTURE                                                                                                        |  | CONDUIT/RACEWAY IN WALL OR ABOVE CEILING                                                                        | DPDT       | DOUBLE-POLE, DOUBLE-THROW                     |
|  | BOLLARD                                                                                                                          |  | CONDUIT/RACEWAY BELOW GRADE OR BELOW FLOOR                                                                      | DPST       | DOUBLE-POLE, SINGLE-THROW                     |
|  | RECESSED DOWNLIGHT (WALL WASH)                                                                                                   |  | CONDUIT/RACEWAY UP                                                                                              | DWG        | DRAWING                                       |
|  | TRACK LIGHTING                                                                                                                   |  | CONDUIT/RACEWAY DOWN                                                                                            | (E)        | EXISTING TO REMAIN                            |
|  | EMERGENCY LIGHTING UNIT                                                                                                          |  | BREAK OR RUN CONTINUES                                                                                          | ELEC       | ELECTRICAL                                    |
|  | EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARROWS DENOTE DIRECTION                                                   |  | OVERHEAD SERVICE                                                                                                | EM         | EMERGENCY                                     |
|  | EMERGENCY FIXTURE                                                                                                                |  | PRIMARY                                                                                                         | EMT        | ELECTRICAL METALLIC TUBING                    |
|  | SINGLE RECEPTACLE: 20A, 125V, NEMA 5-20, 18" AFF (UNO)                                                                           |  | SECONDARY                                                                                                       | (F)        | FUTURE                                        |
|  | DUPLEX RECEPTACLE: 20A, 125V, NEMA 5-20, 18" AFF (UNO)                                                                           |  | COMMUNICATIONS OR SIGNAL                                                                                        | FLA        | FULL LOAD AMPS                                |
|  | DUPLEX RECEPTACLE: HALF SWITCHED                                                                                                 |  | TELEPHONE                                                                                                       | FLC        | FLEXIBLE METAL CONDUIT (STEEL)                |
|  | DUPLEX RECEPTACLE: FLOOR MOUNTED                                                                                                 |  | TELEVISION                                                                                                      | FFEN       | FUSE PER EQUIP. NAMEPLATE                     |
|  | QUAD RECEPTACLE: 20A, 125V, NEMA 5-20, 18" AFF (UNO)                                                                             |  | LOW VOLTAGE AND/OR CONTROL WIRING                                                                               | GFI        | GROUND FAULT INTERRUPT                        |
|  | QUAD RECEPTACLE: FLOOR MOUNTED                                                                                                   |  | EMERGENCY CIRCUIT                                                                                               | GFR        | GROUND FAULT RELAY                            |
|  | ISOLATED GROUND TYPE RECEPTACLE (ORANGE TRIANGLE) - 20A, 125V, NEMA 5-2016, 18" AFF (UNO)                                        |  | CONDUIT/RACEWAY STUB OUT: MARK AND CAP (SITE)                                                                   | GND        | GROUND                                        |
|  | DUPLEX RECEPTACLE GFI TYPE - 20A, 125V, NEMA 5-20 GFI 18" AFF (UNO)                                                              |  | CONDUIT/RACEWAY SLEEVE                                                                                          | HID        | HIGH INTENSITY DISCHARGE                      |
|  | DUPLEX RECEPTACLE: ABOVE COUNTER (VERIFY HEIGHT)                                                                                 |  | TICS = NO. OF #12 WIRES (UNO) IF MORE THAN TWO WITHIN RACEWAY. GROUNDING CONDUCTOR (NOT SHOWN) ALWAYS REQUIRED. | HOA        | HAND-OFF-AUTO SWITCH                          |
|  | SPECIAL PURPOSE RECEPT. SEE DWGS FOR NEMA CONFIG.                                                                                |  | ISOLATED GROUNDING CONDUCTOR                                                                                    | HP         | HORSEPOWER                                    |
|  | DUPLEX RECEPTACLE: CEILING MOUNTED                                                                                               |  | NEUTRAL CONDUCTOR                                                                                               | HSKP       | HOUSEKEEPING                                  |
|  | MULTI-OUTLET ASSEMBLY: SPACING PER DWGS                                                                                          |  | PHASE CONDUCTOR(S)                                                                                              | IMC        | INTERMEDIATE METAL CONDUIT                    |
|  | DATA / VOICE OUTLET: 18" AFF (UNO) - 1 VOICE, 1 DATA JACK, 2 BLANKS                                                              |  | BRANCH CIRCUIT (WHEN TIC MARKS ARE NOT SHOWN) = (1) PHASE, (1) NEUTRAL AND (1) GROUNDING CONDUCTOR              | J-BOX      | JUNCTION BOX                                  |
|  | DATA / VOICE OUTLET: FLOOR MOUNTED                                                                                               |  | HOMERRUN TO PANELBOARD OR DEVICE                                                                                | K          | kcmil (BOOK = 300 kcmil)                      |
|  | DATA / VOICE OUTLET: ABOVE COUNTER (VERIFY HEIGHT)                                                                               |  | HOMERRUN CIRCUIT DESIGNATION                                                                                    | KVA        | KILOVOLT AMPS                                 |
|  | MULTI-OUTLET ASSEMBLY: SPACING PER DWGS                                                                                          |  | GROUNDING CONDUCTOR                                                                                             | KM         | KILOWATT                                      |
|  | TELEPHONE OUTLET: 18" AFF (UNO)                                                                                                  |  | NEUTRAL CONDUCTOR (N=1, 2N=2 NEUTRALS, 3N=3 NEUTRALS)                                                           | LTG        | LIGHTING                                      |
|  | DATA OUTLET: 18" AFF (UNO)                                                                                                       |  | PHASE CONDUCTOR(S)                                                                                              | IG         | ISOLATED GROUND                               |
|  | SPEAKER                                                                                                                          |  | PANELBOARD DESIGNATION                                                                                          | MCB        | MAIN CIRCUIT BREAKER                          |
|  | TELEVISION OUTLET: 18" AFF (UNO)                                                                                                 |  | HOMERRUN CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN)                                                            | MCM        | THOUSAND CIRCULAR MILS                        |
|  | TELEPHONE TERMINAL BOARD (TTB)                                                                                                   |  | GROUNDING CONDUCTOR                                                                                             | MFG        | MANUFACTURER                                  |
|  | VOLUME CONTROL                                                                                                                   |  | NEUTRAL CONDUCTOR                                                                                               | MLO        | MAIN LUGS ONLY                                |
|  | GROUNDING BAR                                                                                                                    |  | PHASE CONDUCTOR(S)                                                                                              | MS         | MOTOR STARTER                                 |
|  | SINGLE POLE SWITCH 48" AFF (UNO)                                                                                                 |  | NORMALLY OPEN (NO) CONTACT                                                                                      | MSB        | MAIN SWITCHBOARD                              |
|  | THREE WAY SWITCH 48" AFF (UNO)                                                                                                   |  | NORMALLY CLOSED (NC) CONTACT                                                                                    | MTS        | MANUAL TRANSFER SWITCH                        |
|  | FOUR WAY SWITCH 48" AFF (UNO)                                                                                                    |  | COIL - VOLTAGE PER CONTROL DIAGRAMS                                                                             | NC         | NORMALLY CLOSED                               |
|  | KEY OPERATED SWITCH 48" AFF (UNO)                                                                                                |  | PILOT LIGHT (LED) PUSH-TO-TEST. LETTER INDICATES COLOR (R=RED, G=GREEN, A=AMBER, Y=YELLOW)                      | NEC        | NATIONAL ELECTRICAL CODE                      |
|  | SWITCH WITH LIGHTED HANDLE                                                                                                       |  | PILOT LIGHT (LED) NON PUSH-TO-TEST                                                                              | NEMA       | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
|  | MANUAL MOTOR STARTER                                                                                                             |  | THERMAL OVERLOAD                                                                                                | NIC        | NOT IN CONTRACT                               |
|  | SWITCH WITH PILOT LIGHT 48" AFF (UNO)                                                                                            |  | MAGNETIC OVERLOAD                                                                                               | NL         | NIGHTLIGHT                                    |
|  | TIME WALL SWITCH 48" AFF (UNO)                                                                                                   |  | PUSH BUTTON NORMALLY OPEN (NO)                                                                                  | NO         | NORMALLY OPEN                                 |
|  | DIMMER OPERATED SWITCH 48" AFF (UNO)                                                                                             |  | PUSH BUTTON NORMALLY CLOSED (NC)                                                                                | NTS        | NOT TO SCALE                                  |
|  | OCCUPANCY SENSOR - WALL MOUNTED 48" AFF (UNO)                                                                                    |  | LIMIT SWITCH NORMALLY OPEN (NO)                                                                                 | NVE        | NV ENERGY                                     |
|  | OCCUPANCY SENSOR - CEILING MOUNTED. ARROWS INDICATE COVERAGE, DIRECTION & PATTERN. PROVIDE WITH POWER PACK PER MFG REQUIREMENTS. |  | LIMIT SWITCH NORMALLY CLOSED (NC)                                                                               | P          | POLE                                          |
|  | CONTROL STATION                                                                                                                  |  | PUSH BUTTON ILLUMINATED (LED)                                                                                   | PH/ø       | PHASE                                         |
|  | CONTRACTOR OR RELAY                                                                                                              |  |                                                                                                                 | PV         | PHOTOVOLTAIC                                  |
|  | PHOTOELECTRIC CELL (ON ROOF FACING NORTH UNO)                                                                                    |  |                                                                                                                 | PNL        | PANEL                                         |
|  | TIMECLOCK                                                                                                                        |  |                                                                                                                 | FTC        | FY USA TEST CONDITIONS                        |
|  |                                                                                                                                  |  |                                                                                                                 | PKR        | POWER                                         |
|  |                                                                                                                                  |  |                                                                                                                 | (R)        | RELOCATED                                     |
|  |                                                                                                                                  |  |                                                                                                                 | RAC        | RIGID ALUMINUM CONDUIT                        |
|  |                                                                                                                                  |  |                                                                                                                 | RFG        | RIGID FIBERGLASS CONDUIT                      |
|  |                                                                                                                                  |  |                                                                                                                 | RSG        | RIGID STEEL CONDUIT                           |
|  |                                                                                                                                  |  |                                                                                                                 | SE         | SERVICE ENTRANCE                              |
|  |                                                                                                                                  |  |                                                                                                                 | SPD        | SURGE PROTECTION DEVICE                       |
|  |                                                                                                                                  |  |                                                                                                                 | SPDT       | SINGLE-POLE, DOUBLE-THROW                     |
|  |                                                                                                                                  |  |                                                                                                                 | SPST       | SINGLE-POLE, SINGLE-THROW                     |
|  |                                                                                                                                  |  |                                                                                                                 | STC        | STANDARD TEST CONDITIONS                      |
|  |                                                                                                                                  |  |                                                                                                                 | SW         | SWITCH                                        |
|  |                                                                                                                                  |  |                                                                                                                 | TEL        | TELECOM                                       |
|  |                                                                                                                                  |  |                                                                                                                 | TTB        | TELEPHONE TERMINATION BOARD                   |
|  |                                                                                                                                  |  |                                                                                                                 | TYP        | TYPICAL                                       |
|  |                                                                                                                                  |  |                                                                                                                 | UL         | UNDERWRITER'S LABORATORY                      |
|  |                                                                                                                                  |  |                                                                                                                 | UNO        | UNLESS NOTED OTHERWISE                        |
|  |                                                                                                                                  |  |                                                                                                                 | UNSW       | UNSWITCHED                                    |
|  |                                                                                                                                  |  |                                                                                                                 | UPS        | UNINTERRUPTED POWER SUPPLY                    |
|  |                                                                                                                                  |  |                                                                                                                 | V          | VOLTS                                         |
|  |                                                                                                                                  |  |                                                                                                                 | VA         | VOLT AMPS                                     |
|  |                                                                                                                                  |  |                                                                                                                 | VFD        | VARIABLE FREQUENCY DRIVE                      |
|  |                                                                                                                                  |  |                                                                                                                 | W          | WATTS                                         |
|  |                                                                                                                                  |  |                                                                                                                 | WP         | WEATHER PROOF                                 |
|  |                                                                                                                                  |  |                                                                                                                 | (X)        | EXISTING TO BE REMOVED                        |
|  |                                                                                                                                  |  |                                                                                                                 | XFMR OR XF | TRANSFORMER                                   |

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NOTE: THIS IS A MASTER SYMBOL LIST. IT MAY BE THAT NOT ALL SYMBOLS SHOWN ARE USED WITHIN THIS SET OF PLANS. HEIGHTS GIVEN ARE TO CENTER LINE OF DEVICE.

20 SINGLE POLE CIRCUIT BREAKER  
20/2 TWO POLE CIRCUIT BREAKER  
20/3 THREE POLE CIRCUIT BREAKER  
20A ARC FAULT CIRCUIT BREAKER  
20C CONTROLLABLE CIRCUIT BREAKER  
20G GFI CIRCUIT BREAKER

L = LIGHTING  
R = RECEPTACLES  
E = EQUIPMENT  
M = MOTOR  
MI = LARGEST MOTOR  
K = KITCHEN EQUIP  
H = ELECTRIC HEAT



|         |        |
|---------|--------|
| DATE    | 6-2-14 |
| JOB NO  | 796    |
| DRAWN   | JVA    |
| CHECKED | JEG    |

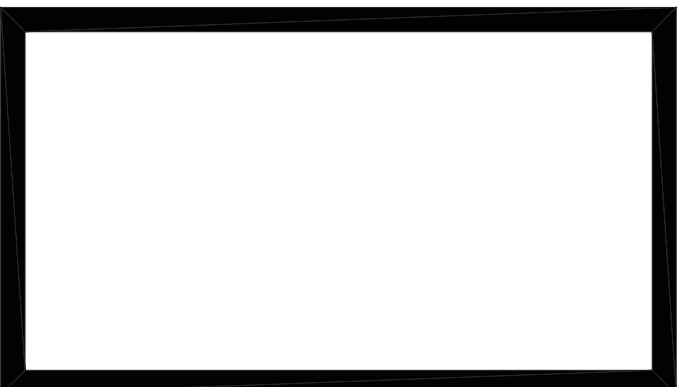
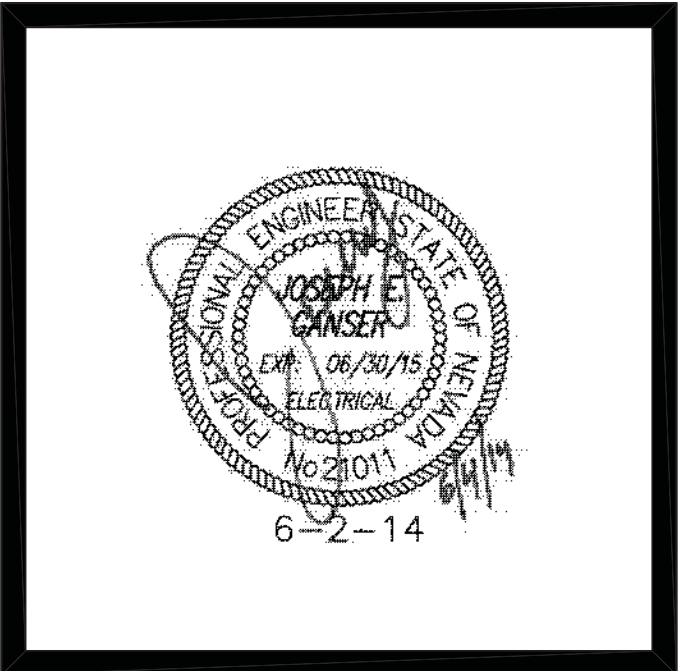
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|------------------------------|---------|
| BUILDING DEPARTMENT COMMENTS | 4/24/14 |
|------------------------------|---------|

## ELECT LEGEND, FA LEGEND, DETAIL + DWG SCHEDULE

# E0.1



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CARSON CITY  
FLEET  
MAINTENANCE  
FACILITY  
EXPANSION

CARSON CITY,  
NEVADA

|         |        |
|---------|--------|
| DATE    | 6-2-14 |
| JOB NO  | 796    |
| DRAWN   | JVA    |
| CHECKED | JEG    |

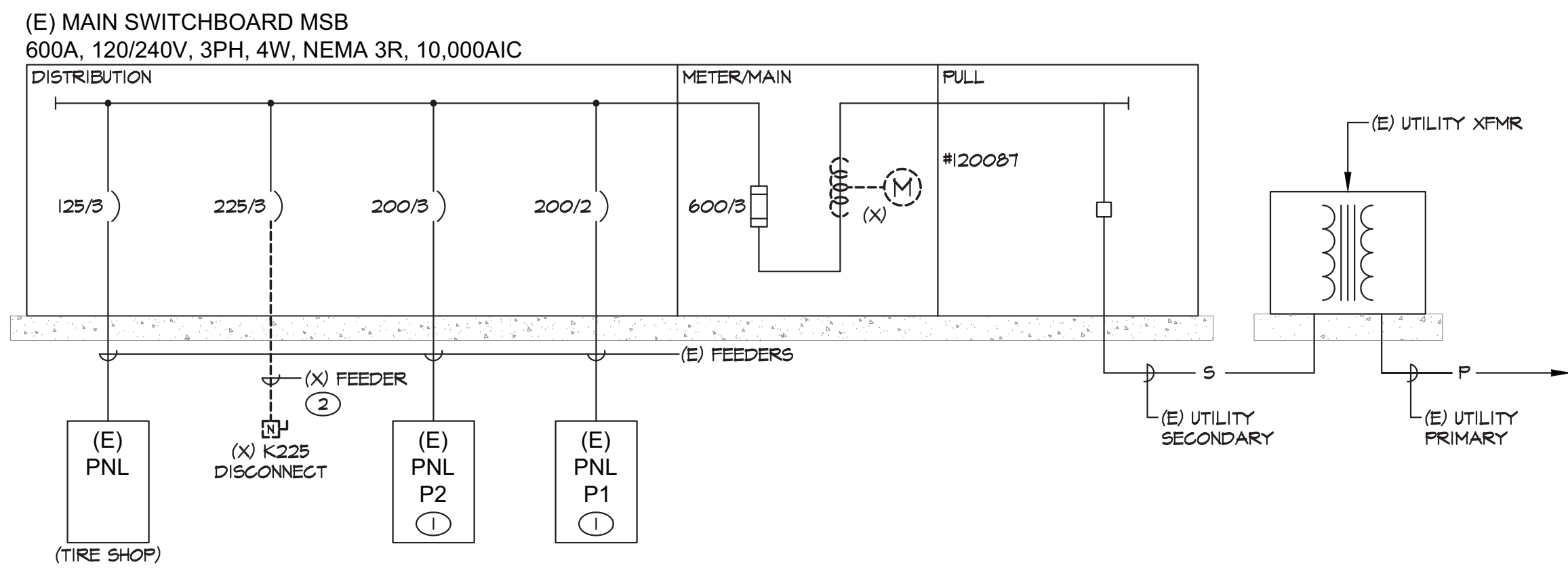
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|------------------------------|---------|
| BUILDING DEPARTMENT COMMENTS | 4/24/14 |
|------------------------------|---------|

ONLINE  
DIAGRAMS

E0.2

| FEEDER SCHEDULE (600V, 3Ø, 3W) |        |           |           |            |
|--------------------------------|--------|-----------|-----------|------------|
| FEEDER                         | AMPERE | WIRE (CU) | BOND (CU) | CONDUIT    |
| 153                            | 15     | (3) 12    | 12        | 3/4"       |
| 203                            | 20     | (3) 12    | 12        | 3/4"       |
| 303                            | 30     | (3) 10    | 10        | 3/4"       |
| 403                            | 40     | (3) 8     | 10        | 3/4"       |
| 503                            | 50     | (3) 6     | 10        | 1"         |
| 603                            | 60     | (3) 4     | 10        | 1"         |
| 703                            | 70     | (3) 4     | 8         | 1 1/4"     |
| 803                            | 80     | (3) 3     | 8         | 1 1/4"     |
| 1003                           | 100    | (3) 2     | 8         | 1 1/4"     |
| 1253                           | 125    | (3) 1/0   | 6         | 1 1/2"     |
| 1503                           | 150    | (3) 1/0   | 6         | 1 1/2"     |
| 1753                           | 175    | (3) 2/0   | 6         | 2"         |
| 2003                           | 200    | (3) 3/0   | 6         | 2"         |
| 2253                           | 225    | (3) 4/0   | 4         | 2 1/2"     |
| 2503                           | 250    | (3) 250K  | 4         | 2 1/2"     |
| 3003                           | 300    | (3) 350K  | 3         | 3"         |
| 3503                           | 350    | (3) 400K  | 3         | 3"         |
| 4003                           | 400    | (3) 500K  | 3         | 4"         |
| 5003                           | 500    | (6) 250K  | (2) 2     | (2) 2 1/2" |
| 6003                           | 600    | (6) 350K  | (2) 1     | (2) 3"     |
| 8003                           | 800    | (6) 500K  | (2) 1/0   | (2) 4"     |
| 10003                          | 1000   | (4) 400K  | (3) 2/0   | (3) 3"     |
| 12003                          | 1200   | (4) 600K  | (3) 3/0   | (3) 4"     |
| 16003                          | 1600   | (12) 600K | (4) 4/0   | (4) 4"     |
| 20003                          | 2000   | (15) 600K | (5) 250K  | (5) 4"     |

| FEEDER SCHEDULE (600V, 3Ø, 4W) |        |           |           |            |
|--------------------------------|--------|-----------|-----------|------------|
| FEEDER                         | AMPERE | WIRE (CU) | BOND (CU) | CONDUIT    |
| 154                            | 15     | (4) 12    | 12        | 3/4"       |
| 204                            | 20     | (4) 12    | 12        | 3/4"       |
| 304                            | 30     | (4) 10    | 10        | 3/4"       |
| 404                            | 40     | (4) 8     | 10        | 1"         |
| 504                            | 50     | (4) 6     | 10        | 1"         |
| 604                            | 60     | (4) 4     | 10        | 1 1/4"     |
| 704                            | 70     | (4) 4     | 8         | 1 1/4"     |
| 804                            | 80     | (4) 3     | 8         | 1 1/4"     |
| 1004                           | 100    | (4) 2     | 8         | 1 1/2"     |
| 1254                           | 125    | (4) 1/0   | 6         | 2"         |
| 1504                           | 150    | (4) 1/0   | 6         | 2"         |
| 1754                           | 175    | (4) 2/0   | 6         | 2"         |
| 2004                           | 200    | (4) 3/0   | 6         | 2"         |
| 2254                           | 225    | (4) 4/0   | 4         | 2 1/2"     |
| 2504                           | 250    | (4) 250K  | 4         | 3"         |
| 3004                           | 300    | (4) 350K  | 3         | 3"         |
| 3504                           | 350    | (4) 400K  | 3         | 3"         |
| 4004                           | 400    | (4) 500K  | 3         | 4"         |
| 5004                           | 500    | (8) 250K  | (2) 2     | (2) 2 1/2" |
| 6004                           | 600    | (8) 350K  | (2) 1     | (2) 3"     |
| 8004                           | 800    | (8) 500K  | (2) 1/0   | (2) 4"     |
| 10004                          | 1000   | (12) 400K | (3) 2/0   | (3) 3 1/2" |
| 12004                          | 1200   | (12) 600K | (3) 3/0   | (3) 4"     |
| 16004                          | 1600   | (16) 600K | (4) 4/0   | (4) 4"     |
| 20004                          | 2000   | (20) 600K | (5) 250K  | (5) 4"     |



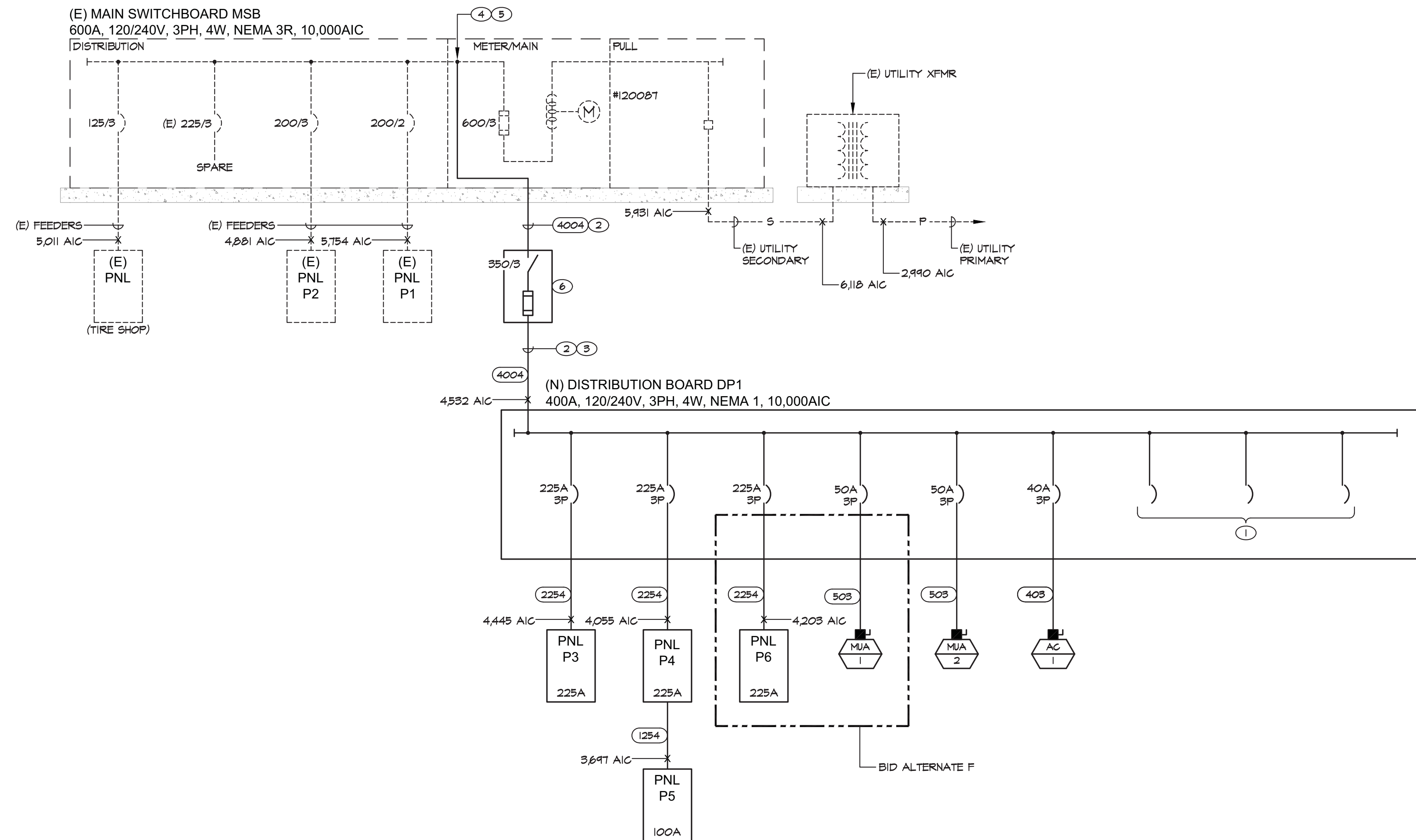
A  
E0.2  
ONLINE DIAGRAM - BASE BID DEMOLITION  
SCALE: NONE

GENERAL NOTES (DEMO)

- (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (E) AND/OR SOLID LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.

SHEET NOTES (DEMO)

- EXISTING PANELBOARD TO REMAIN. REFER TO PANEL SCHEDULE FOR BRANCH BREAKER AND CIRCUITING MODIFICATIONS. PROTECT EXISTING CONDUITS AND CONDUCTORS FOR RE-USE.
- CONDUIT AND WIRE TO BE REMOVED FROM UTILITY PULL SECTION. PROVIDE RAINTIGHT KO SEALS FOR OPENINGS REMAINING AFTER DEMOLITION.



A  
E0.2  
ONLINE DIAGRAM - BASE BID NEW WORK  
SCALE: NONE

GENERAL NOTES (NEW)

- (E) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
- PANELBOARD AND BREAKER INTERRUPTING CAPACITIES (AIC) SHALL BE FULLY RATED AS AN ASSEMBLY. SERIES RATING OF BREAKER DEVICES AND EQUIPMENT IS NOT PERMITTED.
- ALL CONDUCTOR SIZES ARE BASED ON COPPER. ALUMINUM IS NOT PERMITTED.
- ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL BE FULLY BUSSED.
- ALL CONTRACTOR PROVIDED EQUIPMENT SHALL COMPLY WITH NV ENERGY SPECIFICATIONS AND REQUIREMENTS.
- DO NOT SPLICE FEEDER CONDUCTORS UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER.
- ALL OVERCURRENT PROTECTION DEVICES AND ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE FULLY (100%) RATED FOR AVAILABLE FAULT CURRENT INDICATED. SERIES RATED DEVICES AND EQUIPMENT ARE NOT ACCEPTABLE.

SHEET NOTES (NEW)

- REMAINDER OF SECTION SHALL BE BUSSED SPACE TO PROVIDE MINIMUM OF 20% SPARE CAPACITY.
- FEEDER SIZED FOR FUTURE SERVICE UPGRADE.
- ROUTE FEEDER CONDUIT THROUGH EXISTING PORTION OF BUILDING ABOVE SOUTH OVERHEAD DOORS.
- CONTRACTOR SHALL COMPLY WITH NEC SECTION 240 - FEEDER TAP.
- CONTRACTOR SHALL TAP BUS ON LOAD SIDE OF MAIN FUSED SWITCH. THE SOLID BUS BARS SHALL BE DRILLED WITH NEW THREADED HOLES FOR TAPS. BOLTING THROUGH HOLE IS NOT ALLOWED. SEE DETAIL 6/EO6 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL 3RD PARTY TESTING AND APPROVAL OF MODIFICATIONS MADE TO EXISTING EQUIPMENT AND BUSSING.
- PROVIDE 240V, 3P, 400A, NEMA 3R FUSED DISCONNECT SWITCH FUSE PER ONELINE DIAGRAM. REFER TO SHEET E3.2, ELECTRICAL POWER PLANS, FOR LOCATION.

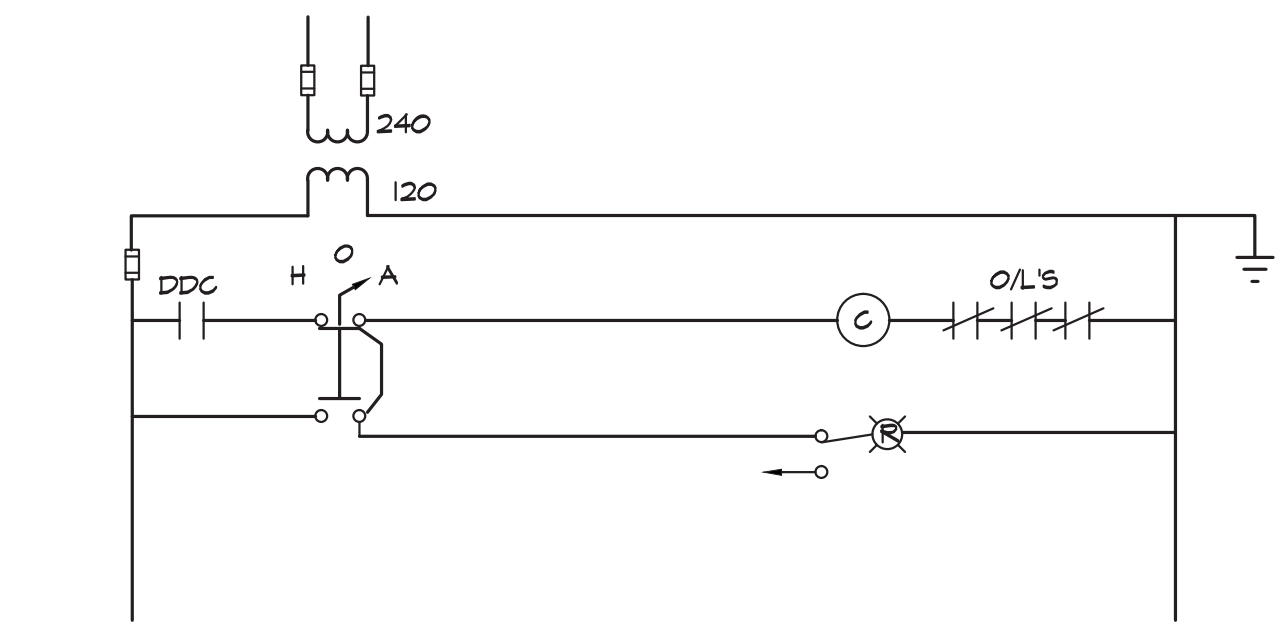


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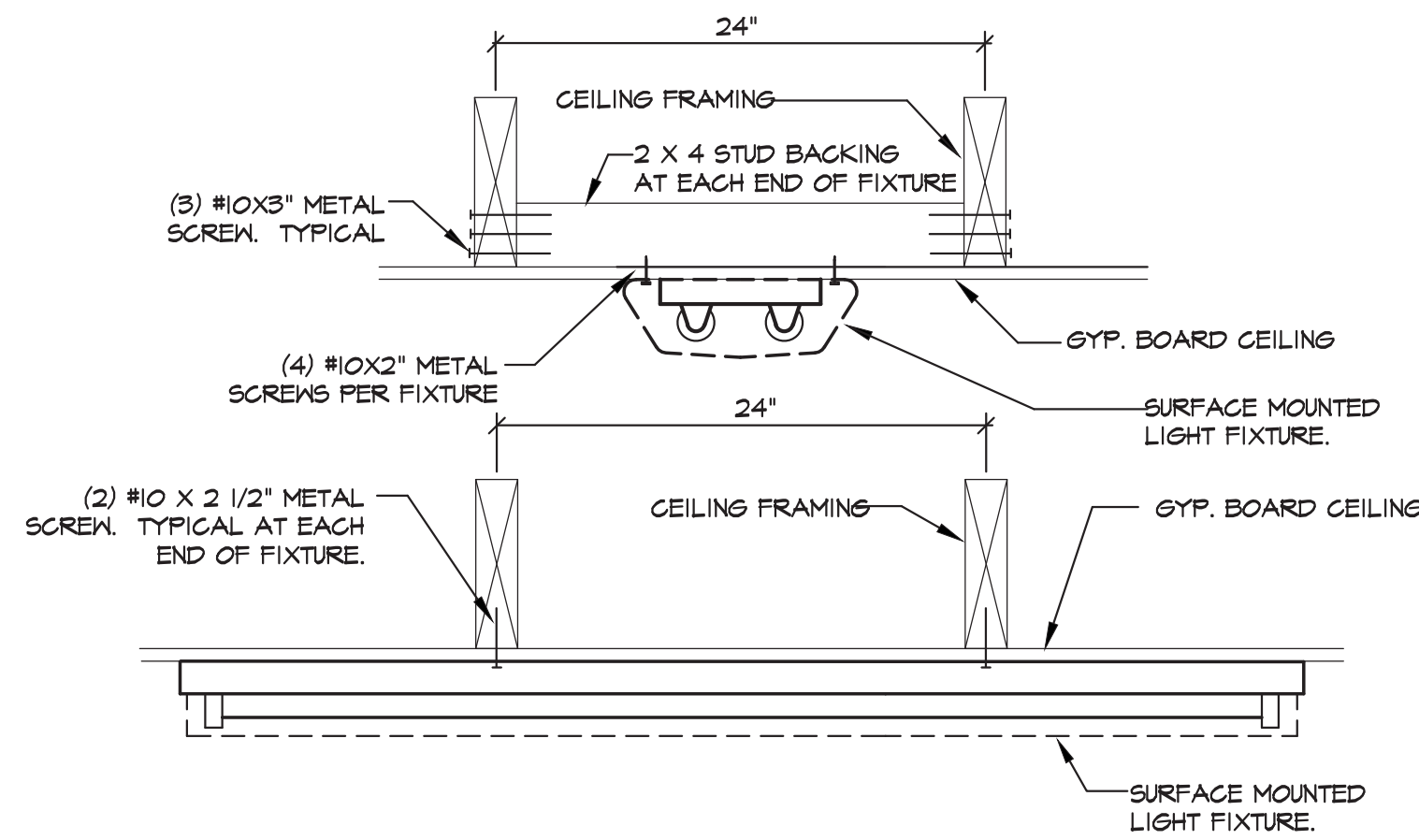
| 4-Jun-14                |      | PANEL |     |          | (E) P1               |     | LOCATION |      | (E) REPAIR SHOP                 |             |   |
|-------------------------|------|-------|-----|----------|----------------------|-----|----------|------|---------------------------------|-------------|---|
| TYPE/DESCRIPTION        | LOAD | BKR   | CIR | A        | B                    | CIR | BKR      | LOAD | DESCRIPTION                     | TYPE        |   |
| E HEATER                | 900  | 20/2  | 1   | 3060     |                      | 2   | 30       | 2160 | SMALL DRILL                     | M           |   |
| E X                     | 900  | X     | 3   |          | 3060                 |     | 4        | 30   | 2160                            | RECEPTACLES | R |
| E AIR CONDITIONER       | 900  | 20/2  | 5   | 3060     |                      | 6   | 30       | 2160 | RECEPTACLES                     | R           |   |
| E X                     | 900  | X     | 7   |          | 3300                 | 8   | 30       | 2400 | CENTER O.H. DOORS               | M           |   |
| SPARE                   |      | 20    | 9   | 1800     |                      | 10  | 30/2     | 1800 | 220 RECP WEST WALL              | R           |   |
| SPARE                   |      | 20    | 11  |          | 1800                 | 12  | X        | 1800 | X                               | R           |   |
| R MAINT RECEPT, DUCTSMK | 400  | 20    | 13  | 2200     |                      | 14  | 30/2     | 1800 | 220 RECP NORTH WALL             | R           |   |
| L LIGHTS                | 840  | 20    | 15  |          | 2640                 | 16  | X        | 1800 | X                               | R           |   |
| M WEST O.H. DOOR        | 1200 | 20    | 17  | 3000     |                      | 18  | 30/2     | 1800 | BRAKE LATHE                     | E           |   |
| M EAST O.H. DOOR        | 1200 | 20    | 19  |          | 3000                 | 20  | X        | 1800 | X                               | E           |   |
| R RECP.T. N & W.        | 900  | 20    | 21  | 2700     |                      | 22  | 20/2     | 1800 | 220 RECEPT EAST WALL            | R           |   |
| E EXISTING              | 900  | 20    | 23  |          | 2700                 | 24  | X        | 1800 | X                               | R           |   |
| SPARE                   |      | 20/2  | 25  | 2000     |                      | 26  | 30       | 2000 | LIGHTS SO. REAR                 | L           |   |
| M X                     |      | X     | 27  |          | 2000                 | 28  | X        | 2000 | LIGHTS NORTH MIDDLE             | L           |   |
| E SPARE                 |      | 20    | 29  | 700      |                      | 30  | 30       | 700  | HEATER CENTER NORTH             | E           |   |
| E X                     |      | 20    | 31  |          | 700                  | 32  | 20       | 700  | WEF-1 (1/4HP)                   | M           |   |
| SPARE                   |      | 20    | 33  | 700      |                      | 34  | 20       | 700  | HEATER SOUTHWEST                | E           |   |
| SPACE                   |      |       | 35  |          | 700                  | 36  | 20       | 700  | HEATER SOUTHEAST                | E           |   |
| SPACE                   |      |       | 37  | 1200     |                      | 38  | 20       | 1200 | LIGHTS NO. ADDITION             | L           |   |
| SPACE                   |      |       | 39  |          | 360                  | 40  | 20       | 360  | CORD REEL                       | R           |   |
|                         |      |       |     |          |                      |     |          |      |                                 |             |   |
|                         |      |       |     | 20420    | 20260                |     |          |      |                                 |             |   |
| COPPER BUS SIZE:        |      |       |     | 200      | GROUND:              |     | STANDARD |      | NOTES:                          |             |   |
| VOLTAGE:                |      |       |     | 240      | MOUNTING:            |     | SURFACE  |      |                                 |             |   |
| PHASE:                  |      |       |     | 1        | ENCLOSURE:           |     | NEMA 1   |      |                                 |             |   |
| WIRE:                   |      |       |     | 3        | # OF 1-POLE CIRCUITS |     | 40       |      |                                 |             |   |
| LUGS:                   |      |       |     | MLO      | CONNECTED KVA:       |     | 40.7     |      | GE TYPE NOB                     |             |   |
| BREAKER AIC RATING:     |      |       |     | EXISTING | CONNECTED AMPS:      |     | 169.5    |      |                                 |             |   |
| NEUTRAL:                |      |       |     | 100%     | NET KVA:             |     | 37.3     |      |                                 |             |   |
| FEEDER OCPD SIZE:       |      |       |     | 200      | NET AMPS:            |     | 155.4    |      | © 2008-2011 PK ELECTRICAL, INC. |             |   |

|                     |                        |          |                      |        |      |       |           |       |                                 |                  |                    |      |
|---------------------|------------------------|----------|----------------------|--------|------|-------|-----------|-------|---------------------------------|------------------|--------------------|------|
| 4-Jun-14            |                        | PANEL:   |                      | (E) P2 |      |       | LOCATION: |       | (E) REPAIR SHOP                 |                  |                    |      |
| TYPE/DESCRIPTION    |                        | LOAD     |                      | BKR    |      | CIR   |           | A     |                                 | DESCRIPTION      |                    | TYPE |
| E                   | LATHE                  | 900      | 20/3                 | 1      | 4900 |       | 2         | 60/3  | 4000                            | IRONHORSE        | E                  |      |
| E                   | X                      | 900      | X                    | 3      |      | 4900  |           | 4     | X                               | 4000             | X                  |      |
| E                   | X                      | 900      | X                    | 5      |      |       | 4900      | 6     | X                               | 4000             | X                  |      |
| M                   | LRG. DRILL PRESS       | 900      | 20/3                 | 7      | 2900 |       | 8         | 40/3  | 2000                            | WIRE FEED WELDER | E                  |      |
| M                   | X                      | 900      | X                    | 9      |      | 2900  |           | 10    | X                               | 2000             | X                  |      |
| M                   | X                      | 900      | X                    | 11     |      |       | 2900      | 12    | X                               | 2000             | X                  |      |
| E                   | GEN. TEST STAND        | 600      | 20/3                 | 13     | 2600 |       | 14        | 40/3  | 2000                            | AIR COMPRESSOR   | M                  |      |
| E                   | X                      | 600      | X                    | 15     |      | 2600  |           | 16    | X                               | 2000             | X                  |      |
| E                   | X                      | 600      | X                    | 17     |      |       | 2600      | 18    | X                               | 2000             | X                  |      |
| R                   | 3 PH. RECP.T.-S.W.Door | 800      | 15/3                 | 19     | 1700 |       | 20        | 20/3  | 900                             | TRAVELING HOIST  | M                  |      |
| R                   | X                      | 800      | X                    | 21     |      | 1700  |           | 22    | X                               | 900              | X                  |      |
| R                   | X                      | 800      | X                    | 23     |      |       | 1700      | 24    | X                               | 900              | X                  |      |
|                     | SPARE                  |          | 15/3                 | 25     | 180  |       |           | 26    | 20                              | 180              | PLUG ON HOIST. NO. |      |
| X                   | X                      | X        | X                    | 27     |      | 7000  |           | 28    | 100/3                           | 7000             | 220 GRINDER        |      |
| X                   | X                      | X        | X                    | 29     |      |       | 7000      | 30    | X                               | 7000             | X                  |      |
| R                   | RECEPT ON HOIST        | 180      | 20                   | 31     | 7180 |       |           | 32    | X                               | 7000             | X                  |      |
|                     | SPACE [1]              |          |                      | 33     |      | 0     |           | 34    | 20                              |                  | SPARE [1]          |      |
| E                   | EXISTING               | 900      | 20                   | 35     |      |       | 1800      | 36    | 20/2                            | 900              | SINCRONAVE WELDER  |      |
| E                   | ANTI FREEZE MACHINE    | 900      | 20/3                 | 37     | 1800 |       |           | 38    | X                               | 900              | X                  |      |
| E                   | X                      | 900      | X                    | 39     |      | 900   |           | 40    | X                               |                  | SPACE [1]          |      |
| E                   | X                      | 900      | X                    | 41     |      |       | 1800      | 42    | 20                              | 900              | OVERHEAD FANS      |      |
|                     |                        |          |                      |        |      | 21260 | 20000     | 22700 |                                 |                  |                    |      |
| COPPER BUS SIZE:    |                        | 225      | GROUND:              |        |      |       | STANDARD  |       | NOTES:                          |                  |                    |      |
| VOLTAGE:            |                        | 240      | MOUNTING:            |        |      |       | SURFACE   |       | (1) HILEG NOT FOR 1-PHASE USE   |                  |                    |      |
| PHASE:              |                        | 3        | ENCLOSURE:           |        |      |       | NEMA 1    |       | (2) HILEG PNLS SHALL BE         |                  |                    |      |
| WIRE:               |                        | 4        | # OF 1-POLE CIRCUITS |        | 42   |       |           |       | IDENTIFIED IN ACCORDANCE WITH   |                  |                    |      |
| LUGS:               |                        | MLO      | CONNECTED KVA:       |        |      |       | 64.0      |       | NCE110-15                       |                  |                    |      |
| BREAKER AIC RATING: |                        | EXISTING | CONNECTED AMPS:      |        |      |       | 153.9     |       | CIRCLE AW TYPE BA               |                  |                    |      |
| NEUTRAL:            |                        | 100%     | NET KVA:             |        |      |       | 64.0      |       |                                 |                  |                    |      |
| FEEDER OCPD SIZE:   |                        | 200      | NET AMPS:            |        |      |       | 153.9     |       | © 2008-2011 PX ELECTRICAL, INC. |                  |                    |      |

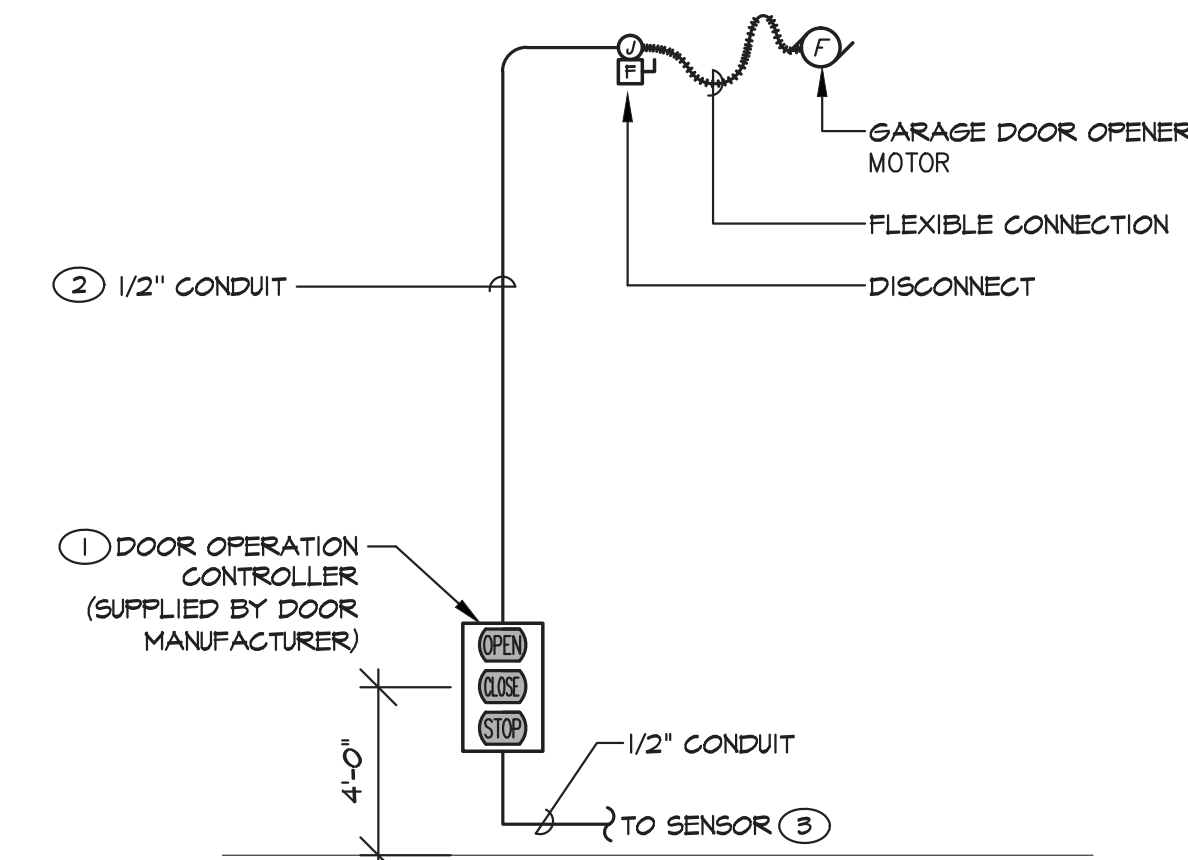




**H**  
**E0.5**  
**TYPICAL MAGNETIC STARTER CONTROL DIAGRAM**  
SCALE: NONE



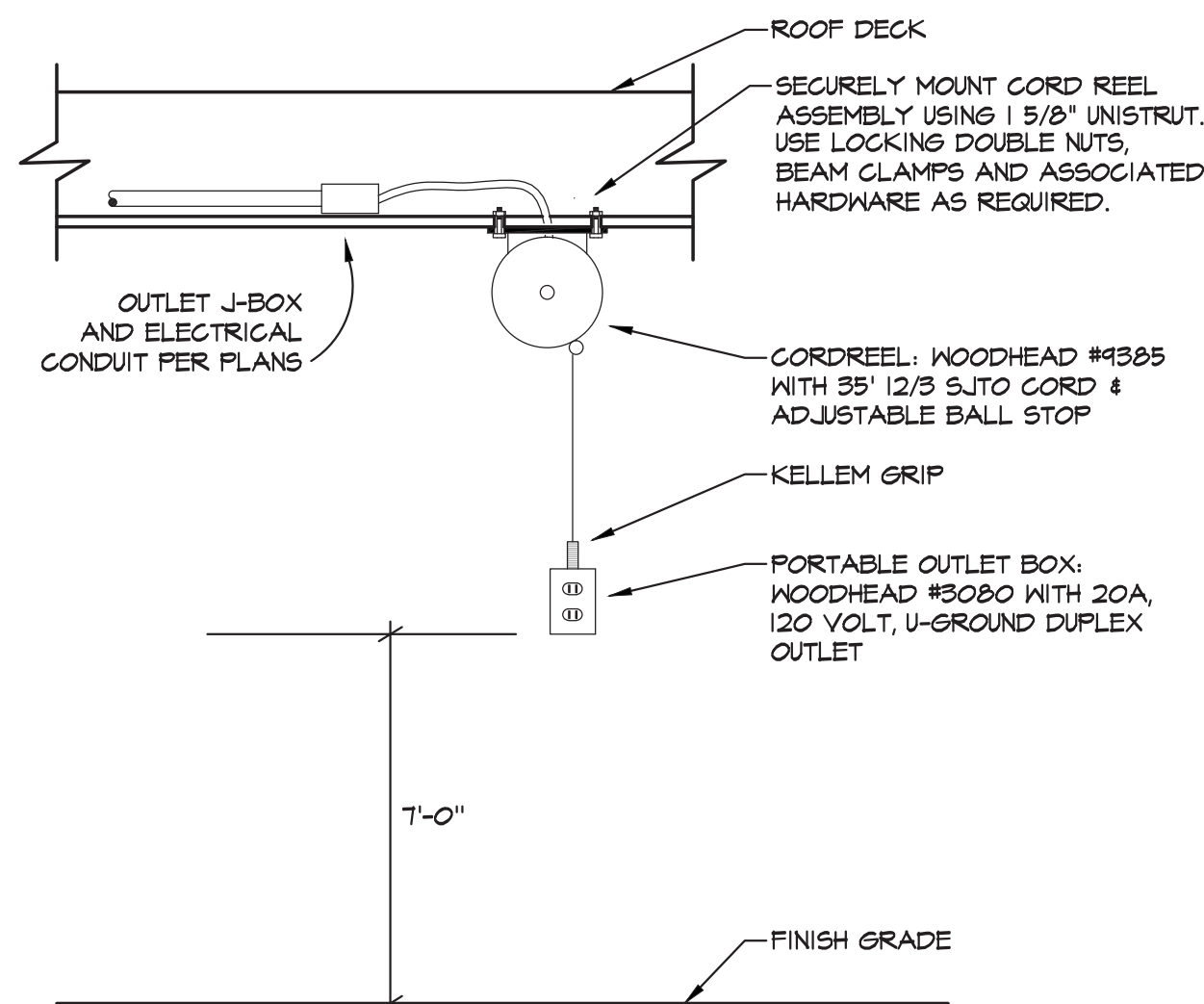
**E**  
**E0.5**  
**SURFACE MOUNTED LIGHT FIXTURE DETAIL**  
SCALE: NONE



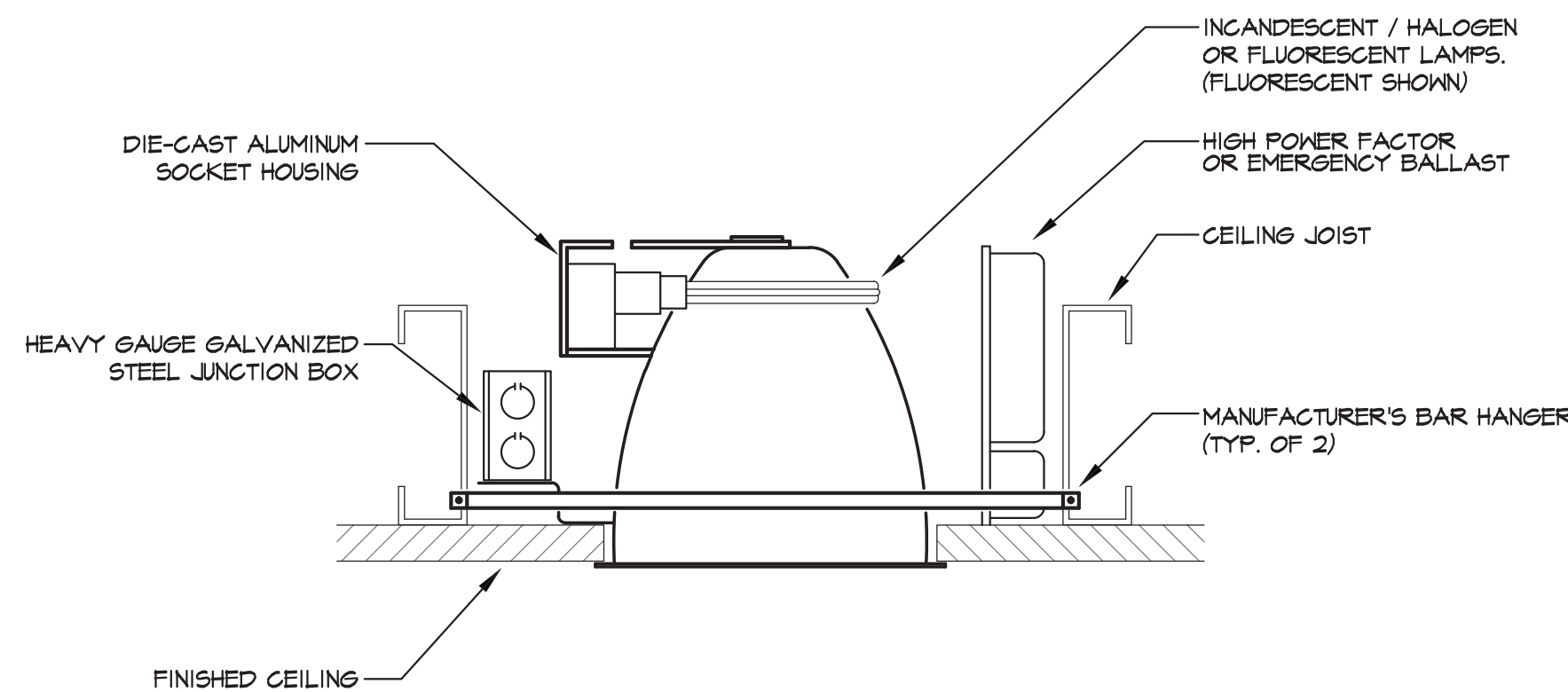
**B**  
**E0.5**  
**OVERHEAD DOOR CONTROL DIAGRAM**  
SCALE: NONE

#### DETAIL NOTES

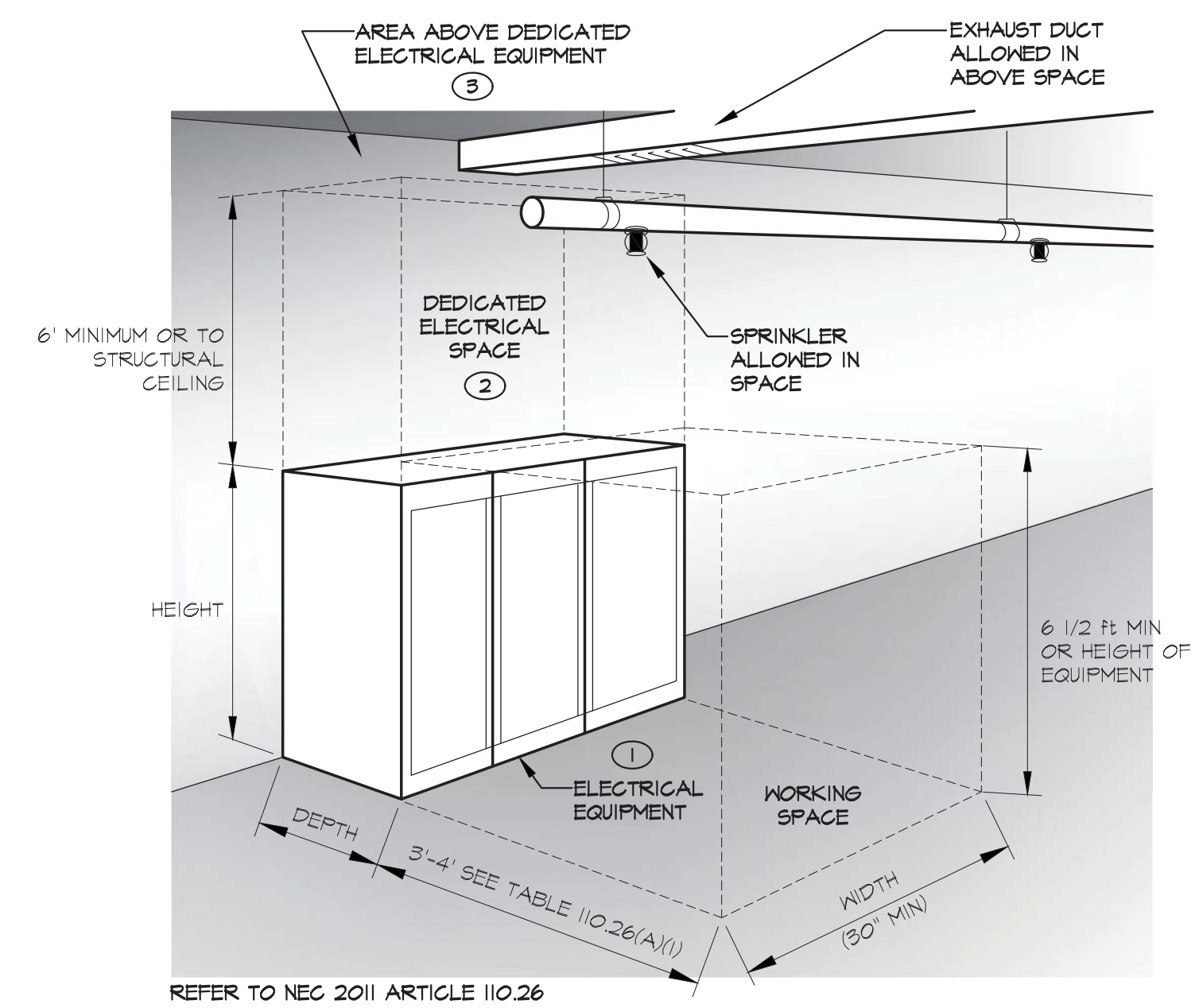
- CONNECT MOTORIZED DOOR PACKAGE AND DOOR CONTROL PER MANUFACTURER'S SHOP DRAWINGS. INSTALL OPEN-STOP-CLOSE PUSH BUTTON CONTROL STATION AND INTERCONNECTING CONTROL CIRCUITING AS REQUIRED FOR A COMPLETE SYSTEM.
- PROVIDE (1) 1/2" G. W/ (2) #14 ANG & #12 GND FROM OVERHEAD DOOR PUSHBUTTON AND PHOTO EYE TO MOTOR. COORDINATE WITH VENDOR PRIOR TO ROUGH IN.
- PROVIDE (1) 1/2" G. W/ (2) #14 ANG & #12 GND FROM PUSHBUTTON CONTROL TO PHOTO EYE PER MANUFACTURER'S SHOP DRAWINGS.



**G**  
**E0.5**  
**DROP CORD REEL W/ RECEPTACLE**  
SCALE: NONE



**D**  
**E0.5**  
**DOWNLIGHT MOUNTING DETAIL**  
SCALE: NONE

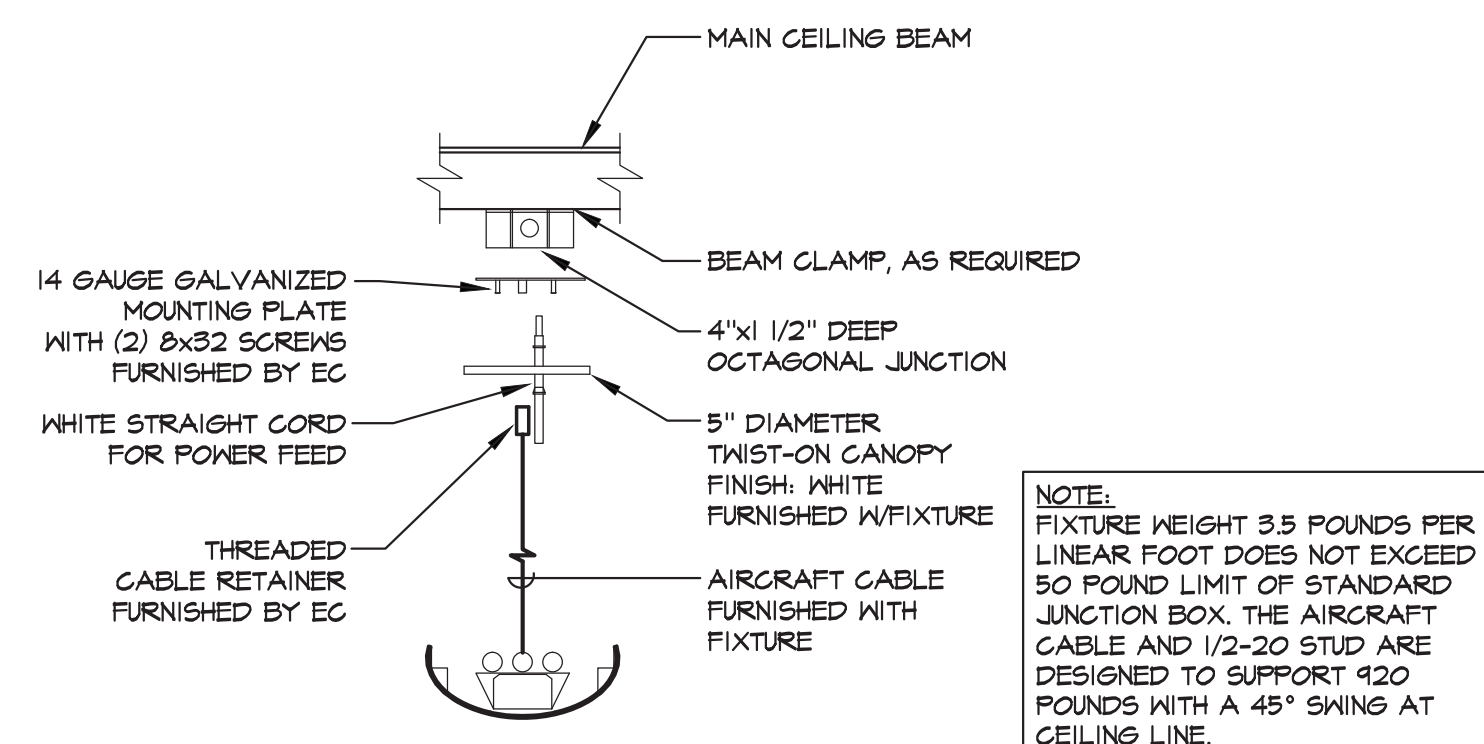


#### NEC-ARTICLE 110.26 WORKING SPACE & DEDICATED ELECTRICAL SPACE REQUIREMENTS

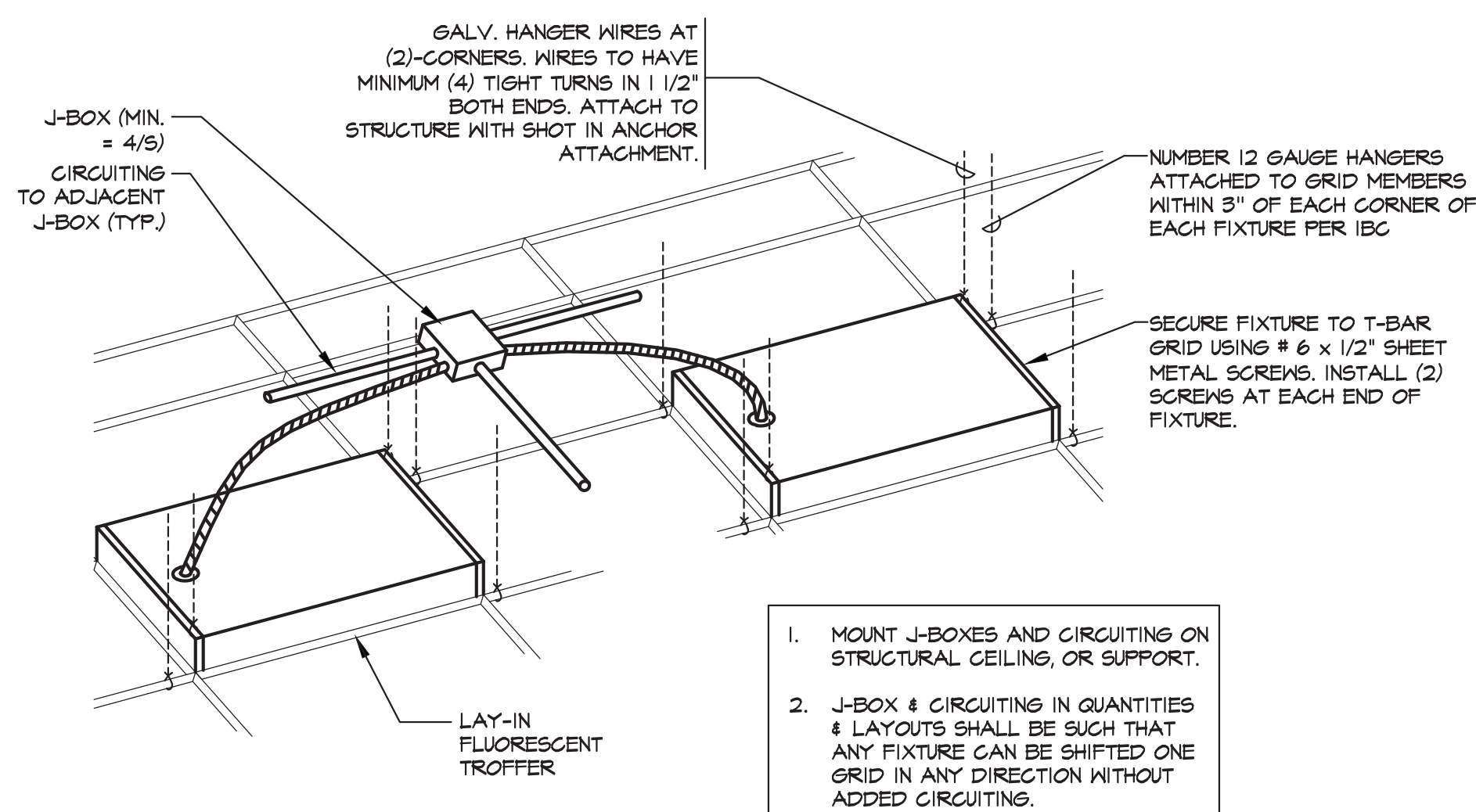
**A**  
**E0.5**  
**SCALE: NONE**

#### DETAIL NOTES

- ELECTRICAL EQUIPMENT INCLUDES SWITCHGEAR, SWITCHBOARDS, DISTRIBUTION BOARDS, PANEL BOARDS, MOTOR CONTROL CENTER OR SIMILAR EQUIPMENT.
- NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.
- THE AREA ABOVE THE DEDICATED SPACE REQUIRED BY 110.26(E)(1)(a) SHALL BE PERMITTED TO CONTAIN FOREIGN SYSTEMS, PROVIDED PROTECTION IS INSTALLED TO AVOID DAMAGE TO THE ELECTRICAL EQUIPMENT FROM CONDENSATION, LEAKS, OR BREAKS IN SUCH FOREIGN SYSTEM.



**F**  
**E0.5**  
**CABLE HUNG LINEAR FIXTURE MOUNTING DETAIL**  
SCALE: NONE

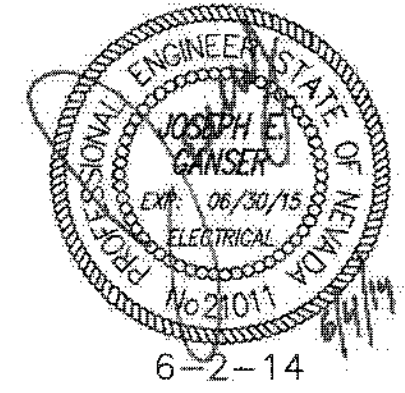


**C**  
**E0.5**  
**FIXTURE MOUNTING DETAIL @ T-BAR CEILING**  
SCALE: NONE



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## CARSON CITY FLEET MAINTENANCE FACILITY EXPANSION

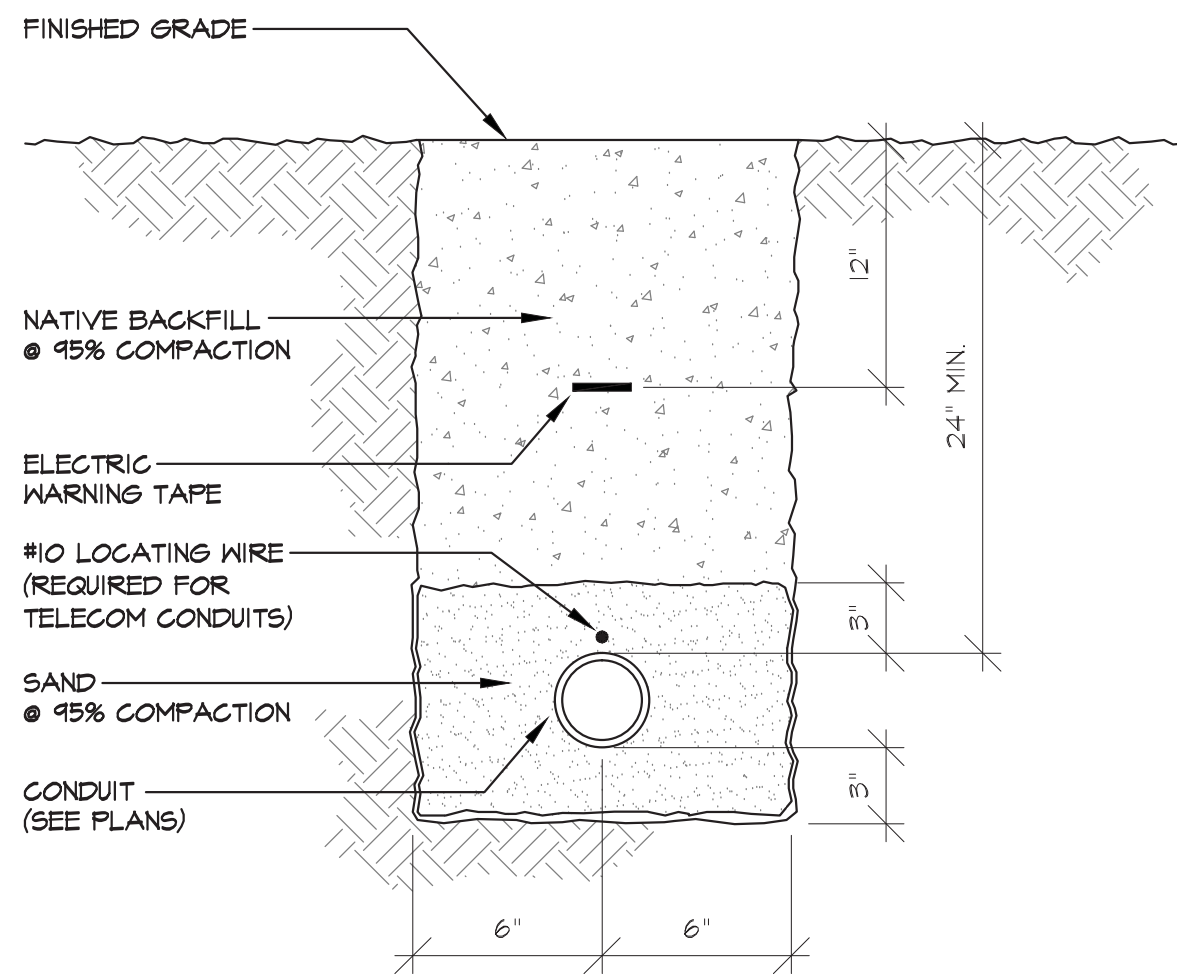
CARSON CITY,  
NEVADA

DATE 6-2-14  
JOB NO 796  
DRAWN JVA  
CHECKED JEG

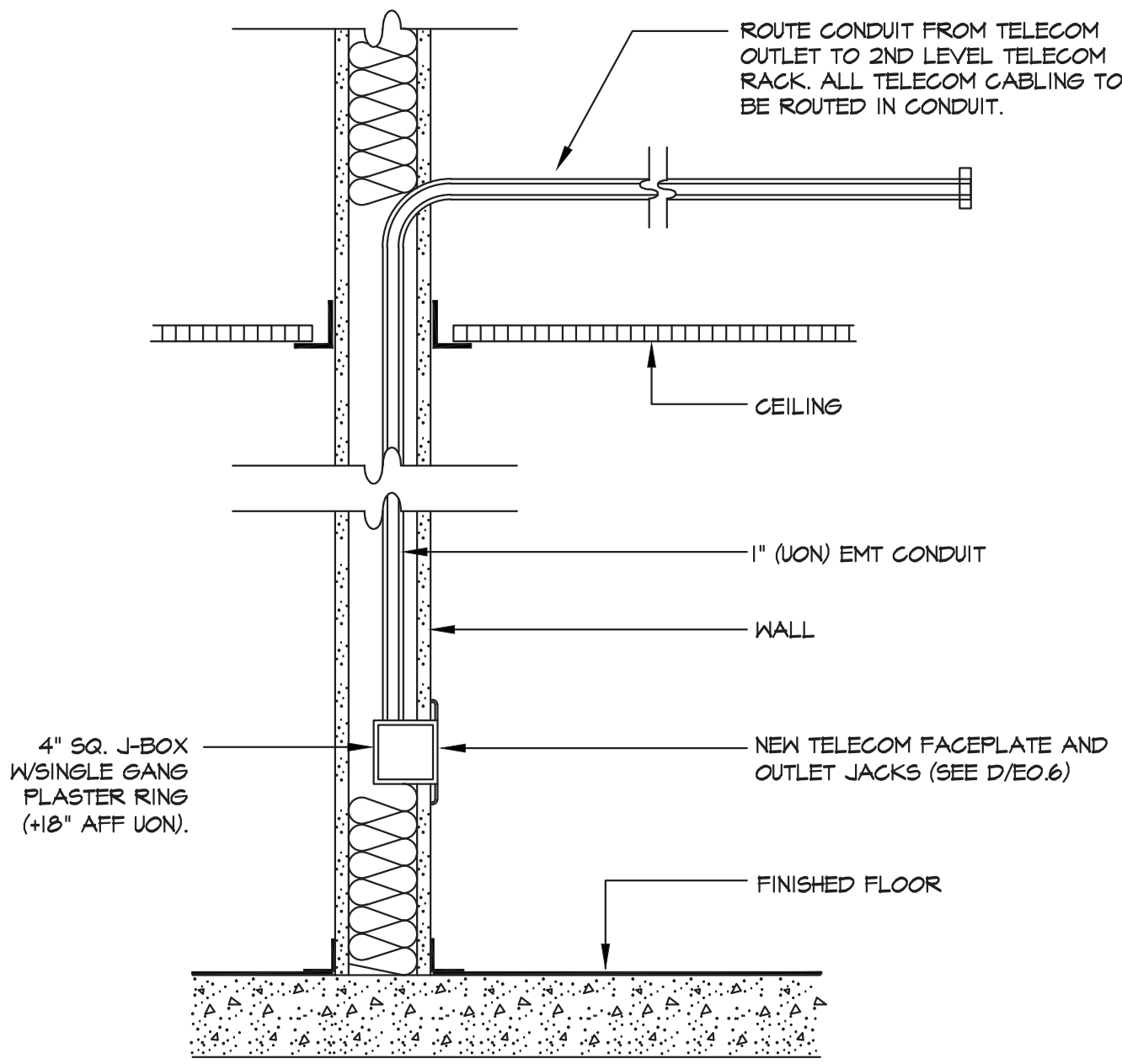
BUILDING DEPARTMENT COMMENTS  
4/24/14

DETAILS

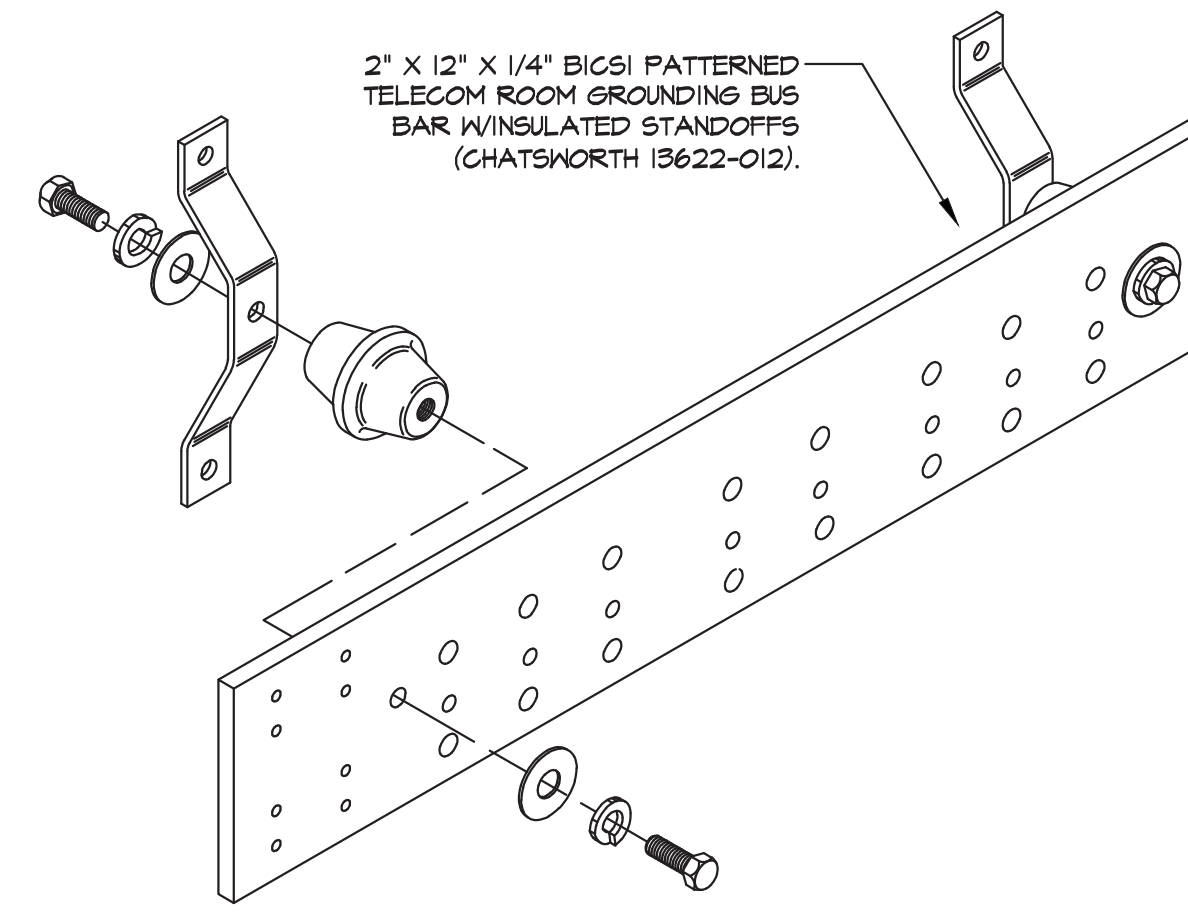
E0.5



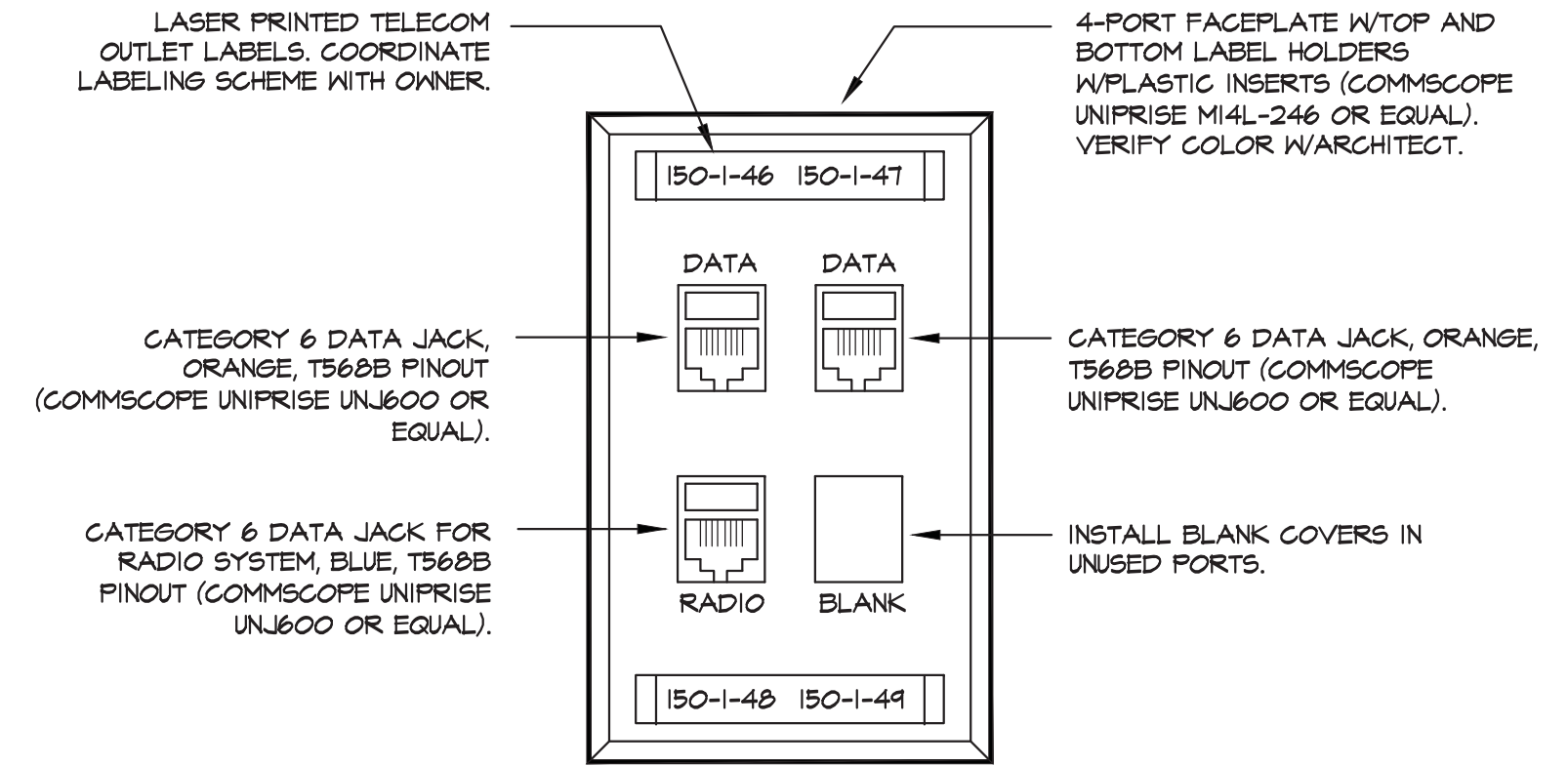
**A** TYP 12" TRENCH DETAIL  
E0.6 SCALE: NONE



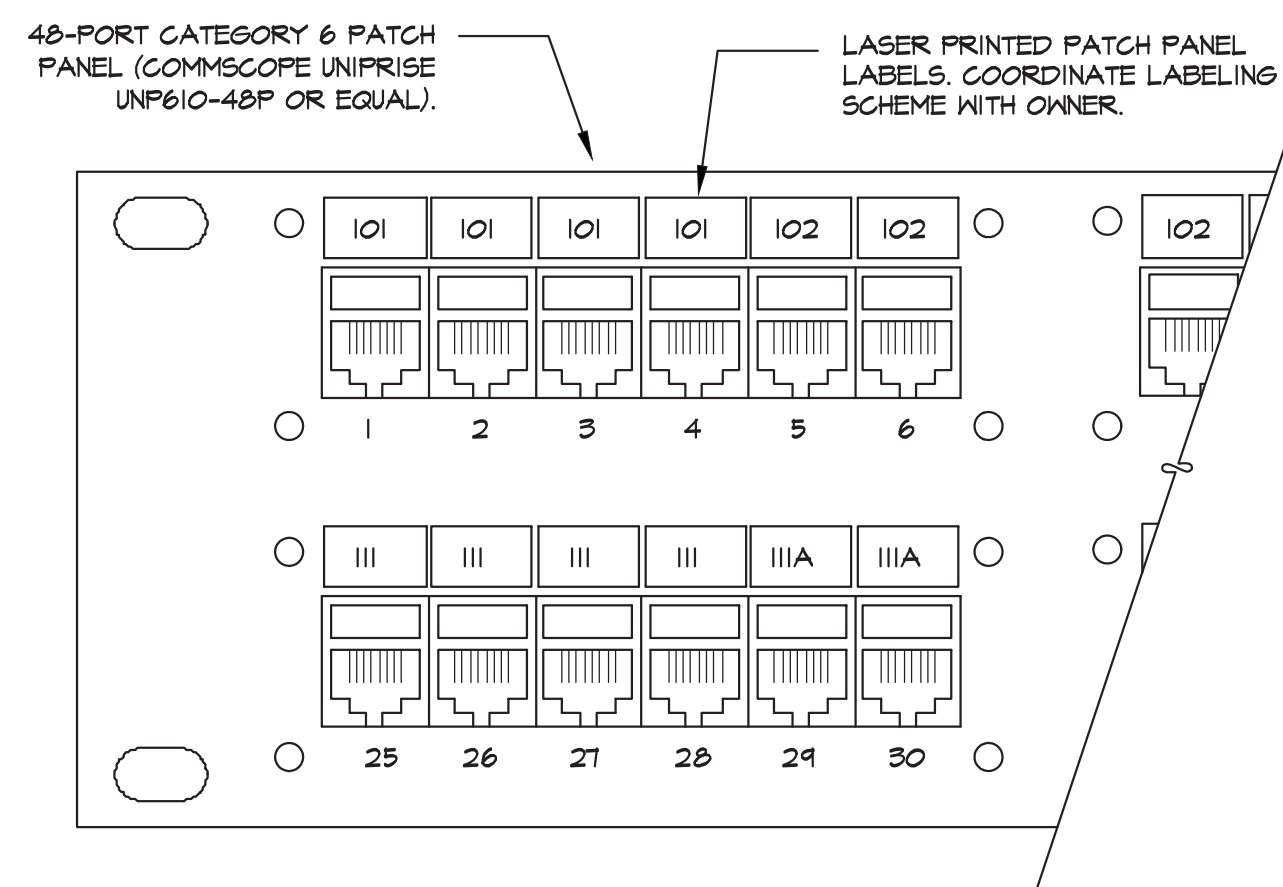
**B** TELECOM OUTLET BOX ROUGHIN  
E0.6 SCALE: NONE



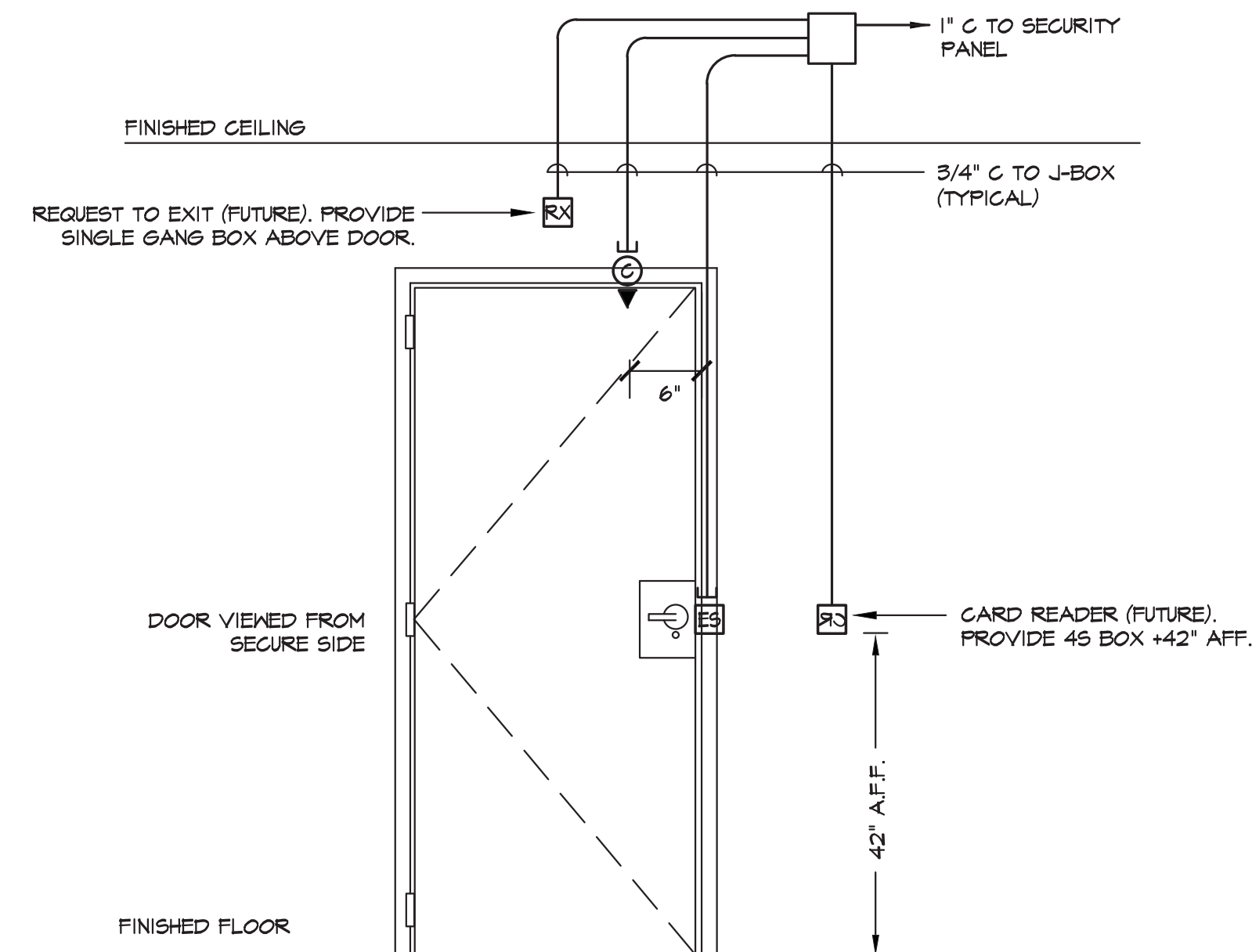
**C** TELECOM GROUNDING BAR  
E0.6 SCALE: NONE



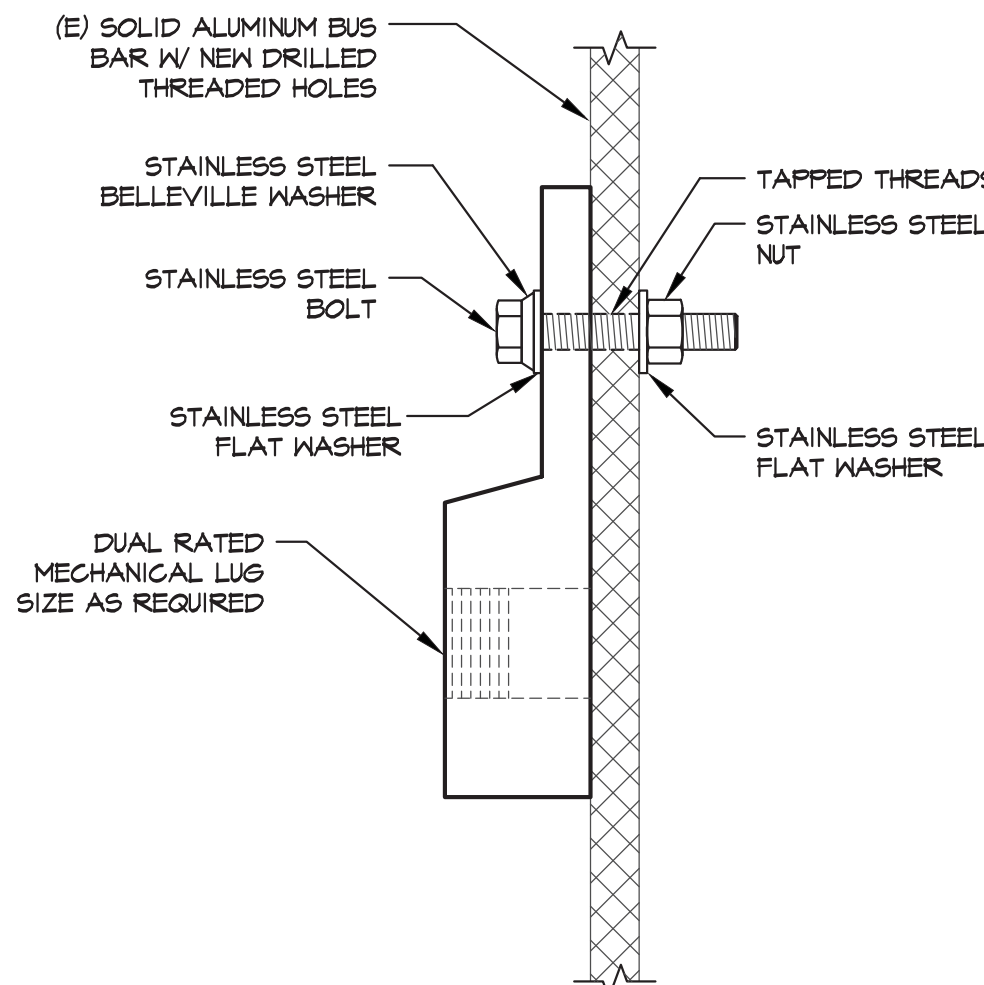
**D** TELECOM / RADIO OUTLET  
E0.6 SCALE: NONE



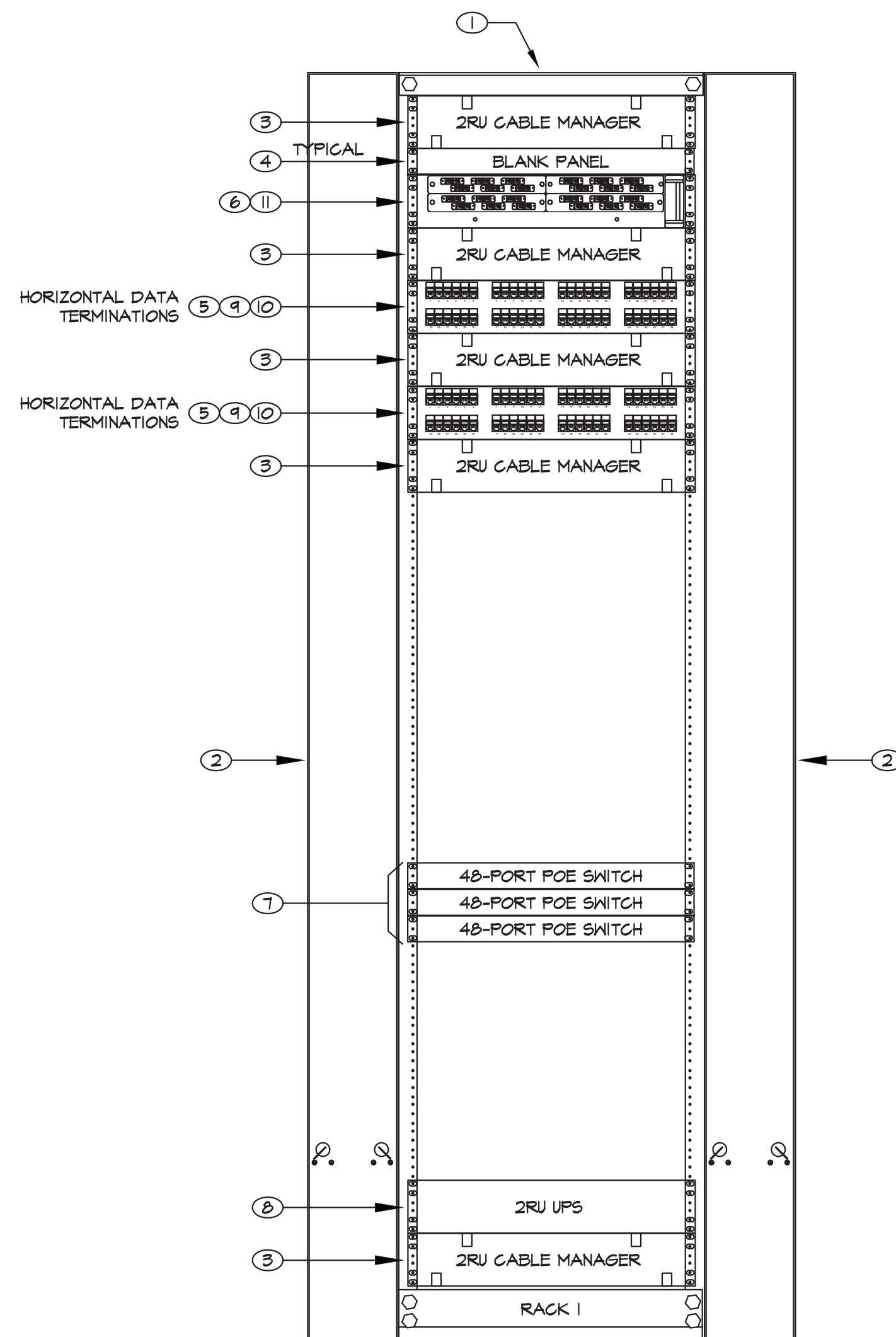
**E** 48 PORT CAT 6 PATCH PANEL  
E0.6 SCALE: NONE



**F** CARD READER W/ELECT STRIKE  
E0.6 SCALE: NONE



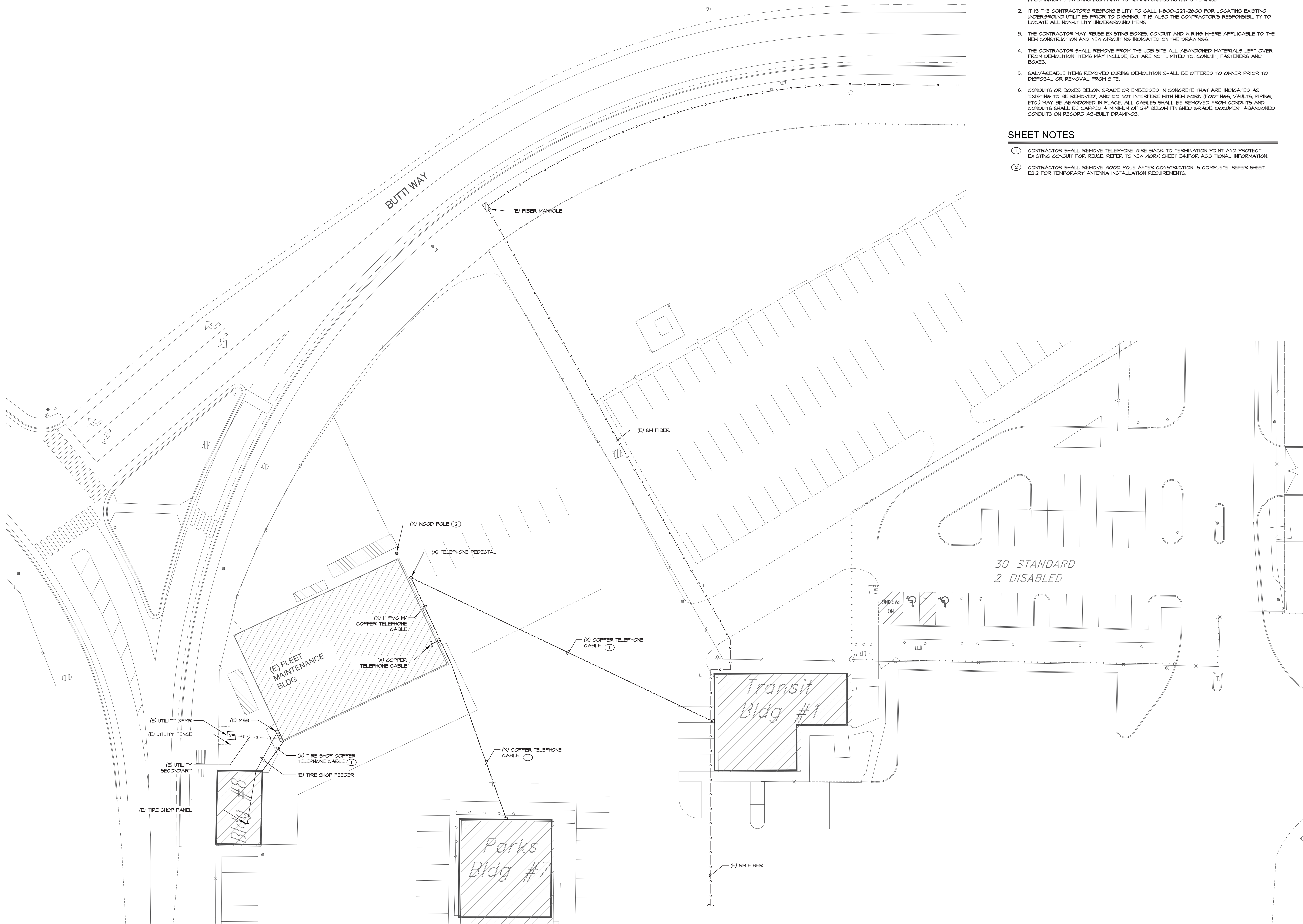
**G** BUS TAP TERMINATION DETAIL  
E0.6 SCALE: NONE



**H** TELECOM RM RACK LAYOUT  
E0.6 SCALE: 1 1/2" = 1'-0"

#### TELECOM RACK SHEET NOTES

- ① UL LISTED LOCKABLE EQUIPMENT CABINET WITH 2 SETS OF ADJUSTABLE SQUARE PUNCHED MOUNTING RAILS. CABINET TO BE 84" HIGH X 9.5" WIDE X 42" DEEP WITH PERFORATED FRONT AND REAR DOORS (GHATSWORTH TERAFRAME F-SERIES P/N FF3N-115B-C22-B OR APPROVED EQUAL). PROVIDE QTY (2) 25-PACK OF CAGE NUTS (GHATSWORTH P/N 12634-00). BOLT CABINET TO CONCRETE WITH (4) 1/2" DIAMETER CONCRETE EXPANSION ANCHORS. INSTALL #6 GROUND WIRE FROM CABINET TO GROUND BAR.
- ② 5" WIDE HIGH VERTICAL CABLE MANAGER COMPATIBLE WITH THE EQUIPMENT CABINET (GHATSWORTH P/N 35045-C05 OR APPROVED EQUAL). PROVIDE 2 SETS (FRONT AND REAR) OF VERTICAL CABLE MANAGERS.
- ③ 2RU 19" WIDE HORIZONTAL CABLE MANAGER (GHATSWORTH P/N 34530-T14).
- ④ 1RU FILLER PANEL (GHATSWORTH P/N 34531-000).
- ⑤ 48-PORT CAT 6 DATA PATCH PANEL (COMMSCOPE UNIPRISE UNP610-24P OR APPROVED EQUAL). DRESS HORIZONTAL CABLEING TO PATCH PANEL PER MANUFACTURER INSTRUCTIONS USING THE PROVIDED REAR CABLE MANAGEMENT BAR/BACKET. SEE E/T/O 6 FOR ADDITIONAL INFORMATION. HORIZONTAL CAT 6 CABLES SHALL BE GROUPED TOGETHER AT THE PATCH PANEL BY ROOM NUMBER. FOR EXAMPLE, THE DATA DROPS SERVING A ROOM SHALL BE TERMINATED IN A CONTIGUOUS NUMERICAL SEQUENCE AT THE PATCH PANEL.
- ⑥ 48-PORT 2RU FIBER TERMINATION CABINET (CORNING CCH-02U). PROVIDE 12F SM DUPLEX LC ADAPTER STRIPS WITH FACTORY INSTALLED PIGTAIL CASSETTES TO TERMINATE ALL BACKBONE SM FIBER (CORNING CCH-C512-A1-POORE).
- ⑦ 1RU 48-PORT POE SWITCHES (BY OWNER).
- ⑧ 2RU 1500VA UPS (APC SMART-UPS XL P/N SUA1500RM2U W/MANAGEMENT MODULE AP9630).
- ⑨ PROVIDE CAT 6 PATCH CORDS FOR INTERCONNECTION OF PATCH PANEL PORTS AND OWNER FURNISHED SWITCHES. PROVIDE QTY (1) 1'-0" PATCH CORD FOR EVERY DATA DROP (COMMSCOPE UNIPRISE UNC6-KH-TF OR EQUAL). VERIFY PATCH CORD LENGTH AND COLOR WITH OWNER PRIOR TO ORDERING.
- ⑩ PROVIDE CAT 6 WORKSTATION CORDS FOR INTERCONNECTION OF WORKSTATION OUTLETS AND OWNER FURNISHED DEVICES (COMPUTERS, PHONES, CAMERAS, WIRELESS AP'S, ETC). PROVIDE QTY (1) 15'-0" PATCH CORD FOR EVERY QTY (2) DATA DROPS (COMMSCOPE UNIPRISE UNC6-KH-BF OR EQUAL). VERIFY PATCH CORD LENGTH AND COLOR WITH OWNER PRIOR TO ORDERING.
- ⑪ PROVIDE SINGLE MODE LC-LC FIBER OPTIC PATCH CORDS FOR INTERCONNECTION OF FIBER BACKBONE CABLEING AND OWNER FURNISHED SWITCHES. PROVIDE QTY (4) 5-METER PATCH CORDS (CORNING P/N 040402R3120003M) FOR THE ENTIRE PROJECT. VERIFY FIBER PATCH CORD LENGTH WITH OWNER PRIOR TO ORDERING.

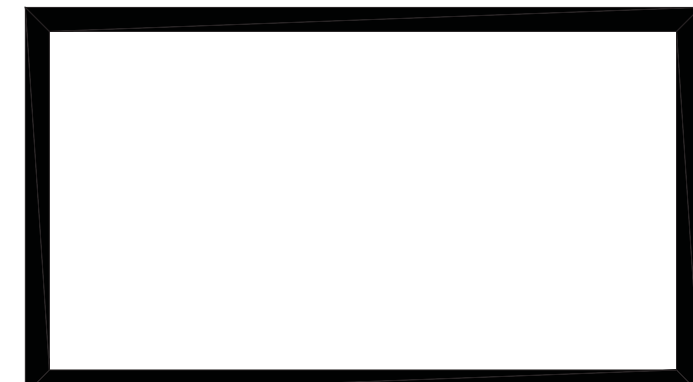
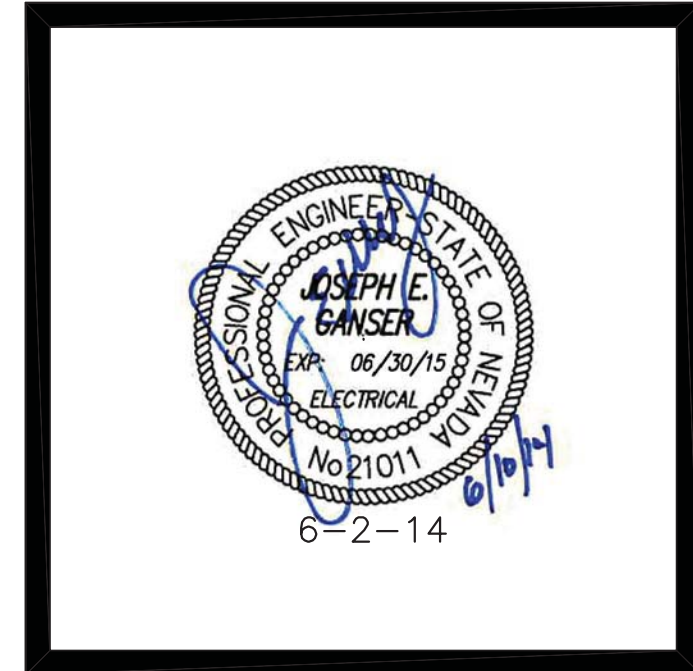


GENERAL NOTES

1. (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (E) AND/OR SOLID LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL 1-800-221-2600 FOR LOCATING EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL NON-UTILITY UNDERGROUND ITEMS.
3. THE CONTRACTOR MAY REUSE EXISTING BOXES, CONDUIT AND WIRING WHERE APPLICABLE TO THE NEW CONSTRUCTION AND NEW CIRCUITING INDICATED ON THE DRAWINGS.
4. THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL ABANDONED MATERIALS LEFT OVER FROM DEMOLITION. ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES.
5. SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
6. CONDUITS OR BOXES BELOW GRADE OR EMBEDDED IN CONCRETE THAT ARE INDICATED AS EXISTING TO BE REMOVED, AND DO NOT INTERFERE WITH NEW WORK (FOOTINGS, VAULTS, PIPING, ETC.) MAY BE ABANDONED IN PLACE. ALL CABLES SHALL BE REMOVED FROM CONDUITS AND CONDUITS SHALL BE CAPPED A MINIMUM OF 24" BELOW FINISHED GRADE. DOCUMENT ABANDONED CONDUITS ON RECORD AS-BUILT DRAWINGS.

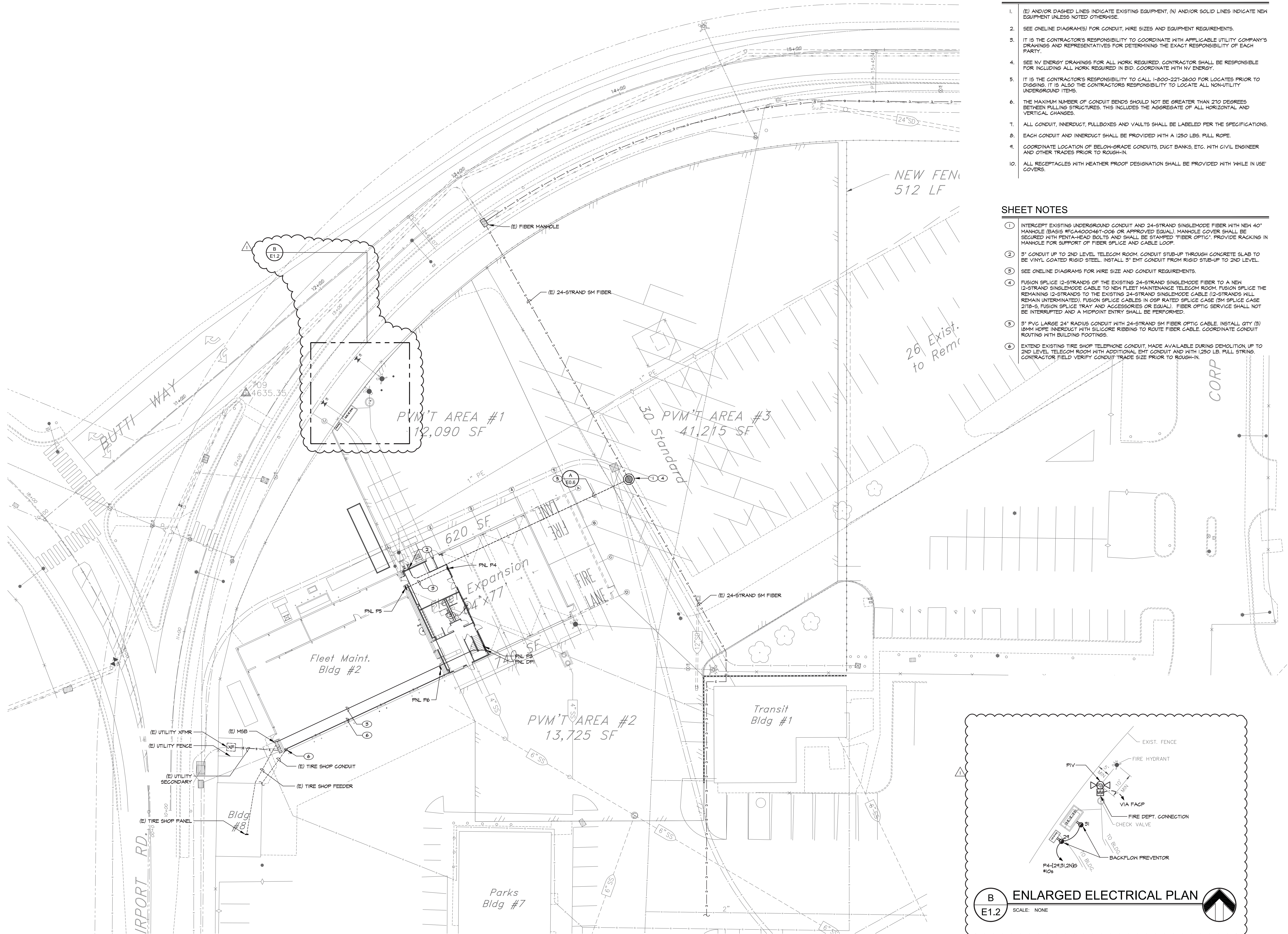
SHEET NOTES

1. CONTRACTOR SHALL REMOVE TELEPHONE WIRE BACK TO TERMINATION POINT AND PROTECT EXISTING CONDUIT FOR REUSE. REFER TO NEW WORK SHEET E4.1 FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL REMOVE WOOD POLE AFTER CONSTRUCTION IS COMPLETE. REFER SHEET E2.2 FOR TEMPORARY ANTENNA INSTALLATION REQUIREMENTS.



|         |        |
|---------|--------|
| DATE    | 6-2-14 |
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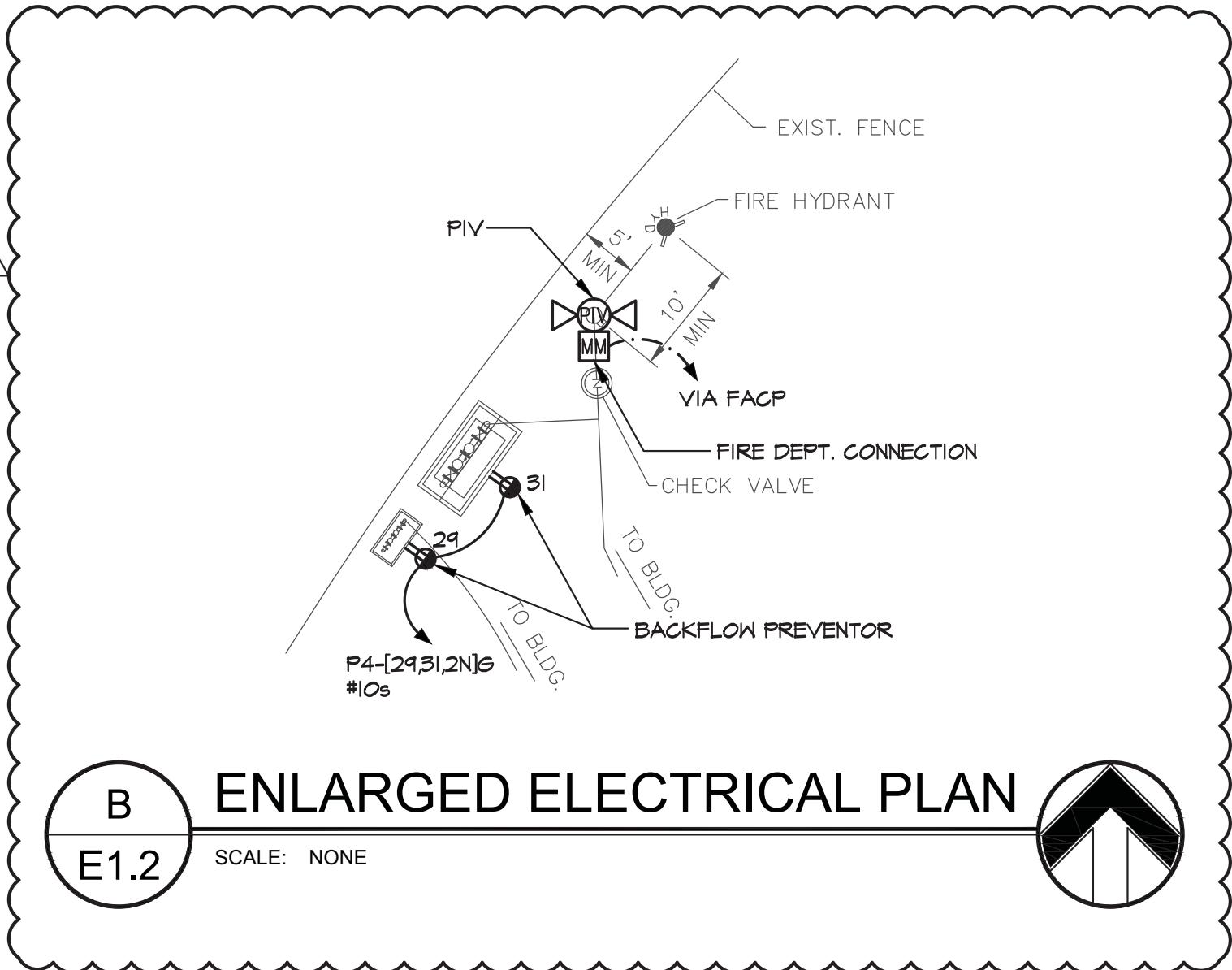
|                              |         |
|------------------------------|---------|
| BUILDING DEPARTMENT COMMENTS | 4/24/14 |
|------------------------------|---------|



- GENERAL NOTES**
- (E) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
  - SEE ONLINE DIAGRAM(S) FOR CONDUIT, WIRE SIZES AND EQUIPMENT REQUIREMENTS.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH APPLICABLE UTILITY COMPANY'S DRAWINGS AND REPRESENTATIVES FOR DETERMINING THE EXACT RESPONSIBILITY OF EACH PARTY.
  - SEE NV ENERGY DRAWINGS FOR ALL WORK REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING ALL WORK REQUIRED IN BID. COORDINATE WITH NV ENERGY.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL 1-800-221-2600 FOR LOCATES PRIOR TO DIGGING. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL NON-UTILITY UNDERGROUND ITEMS.
  - THE MAXIMUM NUMBER OF CONDUIT BENDS SHOULD NOT BE GREATER THAN 270 DEGREES BETWEEN PULLING STRUCTURES. THIS INCLUDES THE AGGREGATE OF ALL HORIZONTAL AND VERTICAL CHANGES.
  - ALL CONDUIT, INNERDUCT, PULLBOXES AND VAULTS SHALL BE LABELED PER THE SPECIFICATIONS.
  - EACH CONDUIT AND INNERDUCT SHALL BE PROVIDED WITH A 1250 LBS. PULL ROPE.
  - COORDINATE LOCATION OF BELOW-GRADE CONDUITS, DUCT BANKS, ETC. WITH CIVIL ENGINEER AND OTHER TRADES PRIOR TO ROUGH-IN.
  - ALL RECEPTACLES WITH WEATHER PROOF DESIGNATION SHALL BE PROVIDED WITH 'WHILE IN USE' COVERS.

- SHEET NOTES**
- INTERCEPT EXISTING UNDERGROUND CONDUIT AND 24-STRAND SINGLEMODE FIBER WITH NEW 40" MANHOLE (BASIS #FGA400046T-006 OR APPROVED EQUAL). MANHOLE COVER SHALL BE SECURED WITH PENTA-HEAD BOLTS AND SHALL BE STAMPED 'FIBER OPTIC'. PROVIDE RACKING IN MANHOLE FOR SUPPORT OF FIBER SPLICE AND CABLE LOOP.
  - 3' CONDUIT UP TO 2ND LEVEL TELECOM ROOM. CONDUIT STUB-UP THROUGH CONCRETE SLAB TO BE VINYL COATED RIGID STEEL. INSTALL 3" EMT CONDUIT FROM RIGID STUB-UP TO 2ND LEVEL.
  - SEE ONLINE DIAGRAMS FOR WIRE SIZE AND CONDUIT REQUIREMENTS.
  - FUSION SPLICE 12-STRANDS OF THE EXISTING 24-STRAND SINGLEMODE FIBER TO A NEW 12-STRAND SINGLEMODE CABLE TO NEW FLEET MAINTENANCE TELECOM ROOM. FUSION SPLICE THE REMAINING 12-STRANDS TO THE EXISTING 24-STRAND SINGLEMODE CABLE (12-STRANDS WILL REMAIN UNTERMINATED). FUSION SPLICE CABLES IN OSP RATED SPLICE CASE (3M SPLICE CASE 2178-S, FUSION SPLICE TRAY AND ACCESSORIES OR EQUAL). FIBER OPTIC SERVICE SHALL NOT BE INTERRUPTED AND A MIDPOINT ENTRY SHALL BE PERFORMED.
  - 3" PVC LARGE 24" RADIUS CONDUIT WITH 24-STRAND SM FIBER OPTIC CABLE. INSTALL QTY (3) 10MM HDPE INNERDUCT WITH SILICONE RIBBING TO ROUTE FIBER CABLE. COORDINATE CONDUIT ROUTING WITH BUILDING FOOTINGS.
  - EXTEND EXISTING TIRE SHOP TELEPHONE CONDUIT, MADE AVAILABLE DURING DEMOLITION UP TO 2ND LEVEL TELECOM ROOM WITH ADDITIONAL EMT CONDUIT AND WITH 1250 LB. PULL STRINGS. CONTRACTOR FIELD VERIFY CONDUIT TRADE SIZE PRIOR TO ROUGH-IN.

**A ELECTRICAL SITE PLAN**  
SCALE: 1" = 20'-0"



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06/20/15  
No. 21011  
6/14  
6-2-14

CARSON CITY  
FLEET  
MAINTENANCE  
FACILITY  
EXPANSION

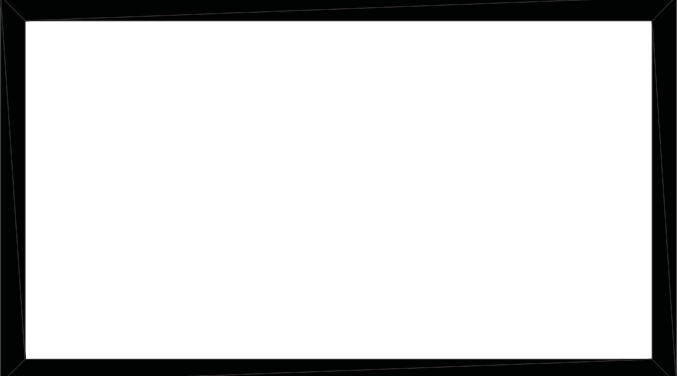
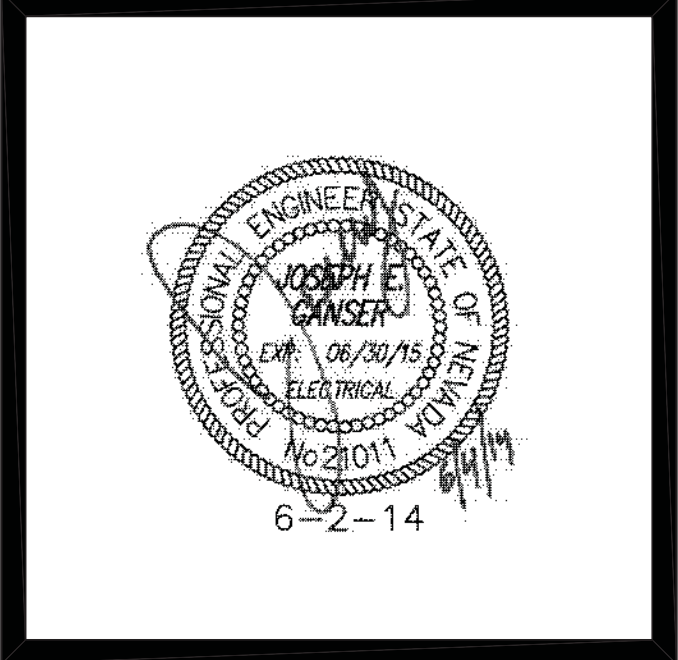
CARSON CITY,  
NEVADA

|         |        |
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BUILDING DEPARTMENT COMMENTS  
4/24/14

ELECTRICAL  
SITE PLAN

E1.2



CARSON CITY  
FLEET  
MAINTENANCE  
FACILITY  
EXPANSION

CARSON CITY,  
NEVADA

|         |        |
|---------|--------|
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| BUILDING DEPARTMENT COMMENTS | 4/24/14 |
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DEMOLITION  
LIGHTING PLAN

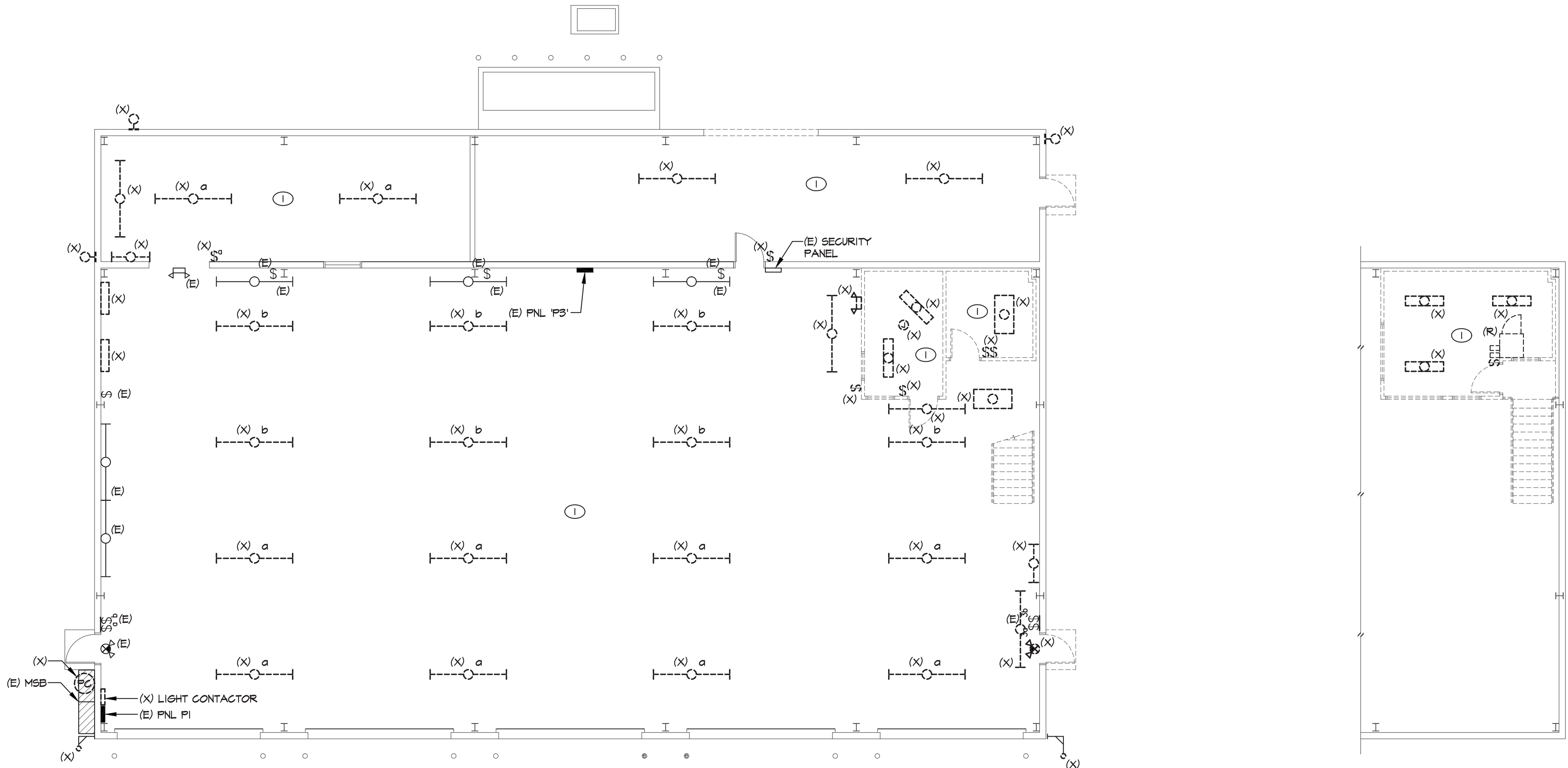
E2.1

GENERAL NOTES

- THIS DRAWING REPRESENTS THE EXISTING LIGHTING SYSTEMS WITHIN THE EXISTING BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING, RELOCATING AND REWIRING ALL EQUIPMENT AS INDICATED ON THE DRAWINGS, INCLUDING EQUIPMENT THAT LIES WITHIN WALLS AND CEILINGS TO BE DEMOLISHED OR REMODELED.
- (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (E) AND/OR SOLID LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
- SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
- EXISTING CIRCUITS AS INDICATED ARE BASED ON CASUAL FIELD OBSERVATION AND INFORMATION PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO START OF DEMOLITION WORK.
- THE CONTRACTOR SHALL SALVAGE AND REUSE EXISTING BOXES AND CONDUIT WHERE POSSIBLE. DAMAGED CONDUIT, FITTINGS BOXES, ETC., MAY NOT BE RE-USED. NEW CIRCUITING AS INDICATED ON THE DRAWINGS IS SHOWN FOR INTENT ONLY AND MAY VARY BASED ON ACTUAL FIELD CONDITIONS (NEW CIRCUITING SHALL MATCH EXISTING WHERE POSSIBLE TO UTILIZE EXISTING HOME-RUN CONDUITS, ETC.). KEEP AS-BUILT DRAWINGS CURRENT WITH ANY DEVIATION IN CIRCUITING FROM WHAT IS INDICATED WITHIN THESE PLANS.
- THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DISCARDED AND ABANDONED MATERIALS LEFT OVER FROM DEMOLITION AND INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES. MATERIALS EMBEDDED IN GRADE AND / OR CONCRETE MAY BE ABANDONED IN PLACE. ALL ABANDONED CONDUIT SHALL BE CAPPED.
- SEE EXISTING ONLINE DIAGRAM AND DETAILS ON SHEET E0.2 FOR EQUIPMENT DEMOLITION.
- EXISTING DATA/PHONE/TV INFRASTRUCTURE SHALL BE REMOVED IN ITS ENTIRETY. MAINTAIN EXISTING PHONE AND TV SERVICE POINT, EQUIPMENT AND CABLES.

SHEET NOTES

- EXISTING LIGHT FIXTURES AND SWITCHES IN THIS AREA SHALL BE DISCONNECTED AND REMOVED IN THEIR ENTIRETY. PROTECT EXISTING CIRCUITING FOR REUSE.



DEMOLITION LIGHTING PLAN  
BID ALTERNATE 'F'

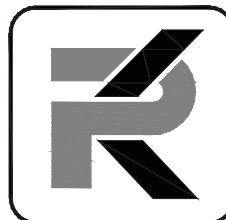
A  
E2.1

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

DEMOLITION UPPER  
FLOOR LIGHTING PLAN  
BID ALTERNATE 'F'

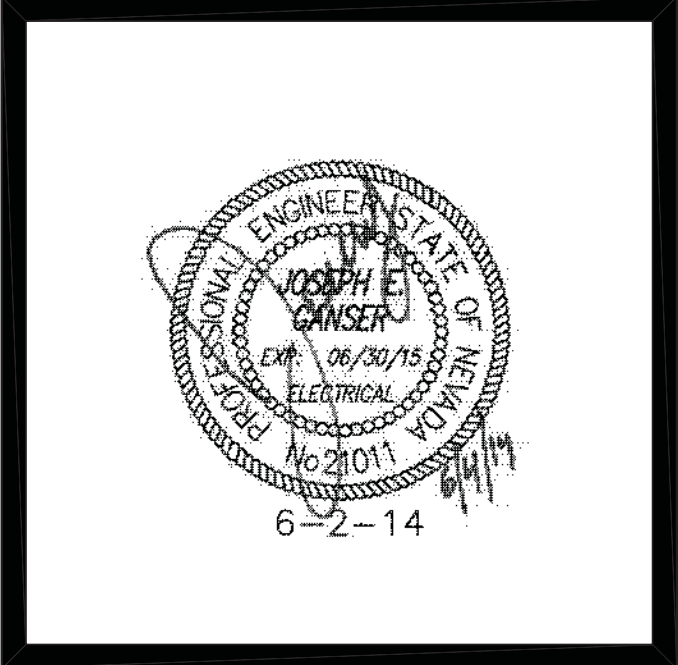
A  
E2.1

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



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CARSON CITY  
FLEET  
MAINTENANCE  
FACILITY  
EXPANSION

CARSON CITY,  
NEVADA

|         |        |
|---------|--------|
| DATE    | 6-2-14 |
| JOB NO  | 796    |
| DRAWN   | JVA    |
| CHECKED | JEG    |

|                              |         |
|------------------------------|---------|
| BUILDING DEPARTMENT COMMENTS | 4/24/14 |
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DEMOLITION  
POWER + SIGNAL  
PLANS

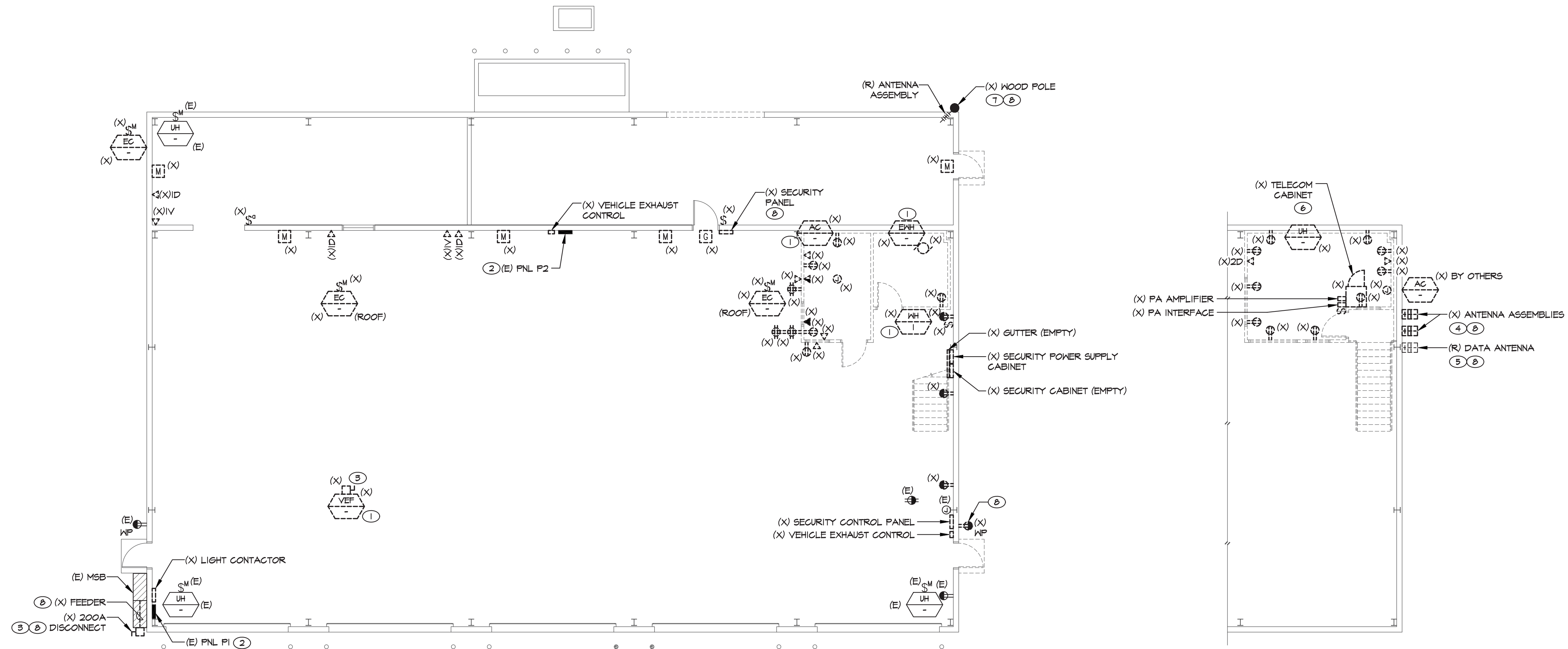
E2.2

GENERAL NOTES

- THIS DRAWING REPRESENTS THE EXISTING POWER AND COMMUNICATIONS SYSTEMS WITHIN THE EXISTING BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING, RELOCATING AND REWIRING ALL EQUIPMENT AS INDICATED ON THE DRAWINGS, INCLUDING EQUIPMENT THAT LIES WITHIN WALLS AND CEILINGSS TO BE DEMOLISHED OR REMOVED.
- (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (E) AND/OR SOLID LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
- SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
- EXISTING CIRCUITS AS INDICATED ARE BASED ON CASUAL FIELD OBSERVATION AND INFORMATION PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO START OF DEMOLITION WORK.
- THE CONTRACTOR SHALL SALVAGE AND REUSE EXISTING BOXES AND CONDUIT WHERE POSSIBLE. DAMAGED CONDUIT, FITTINGS BOXES, ETC. MAY NOT BE REUSED. NEW CIRCUITING AS INDICATED ON THE DRAWINGS IS SHOWN FOR INTENT ONLY AND MAY VARY BASED ON ACTUAL FIELD CONDITIONS (NEW CIRCUITING SHALL MATCH EXISTING WHERE POSSIBLE TO UTILIZE EXISTING HOME-RUN CONDUITS, ETC.). KEEP AS-BUILT DRAWINGS CURRENT WITH ANY DEVIATION IN CIRCUITING FROM WHAT IS INDICATED WITHIN THESE PLANS.
- THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DISCARDED AND ABANDONED MATERIALS LEFT OVER FROM DEMOLITION AND INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES. MATERIALS EMBEDDED IN GRADE AND / OR CONCRETE MAY BE ABANDONED IN PLACE. ALL ABANDONED CONDUIT SHALL BE CAPPED.
- SEE EXISTING ONELINE DIAGRAM AND DETAILS ON SHEET E0.2 FOR EQUIPMENT DEMOLITION.
- EXISTING DATA/PHONE/TV INFRASTRUCTURE SHALL BE REMOVED IN ITS ENTIRETY. MAINTAIN EXISTING PHONE AND TV SERVICE POINT, EQUIPMENT AND CABLES.

SHEET NOTES

- BID ALTERNATE 'F': EQUIPMENT TO BE DISCONNECTED BY ELECTRICAL CONTRACTOR AND REMOVED BY OTHERS. REMOVE DISCONNECT, CONDUIT, AND WIRE BACK TO POINT OF TERMINATION AND ALL OTHER ASSOCIATED ELECTRICAL COMPONENTS.
- EXISTING PANELBOARD: REFER TO PANEL SCHEDULES FOR BRANCH BREAKER AND CIRCUITING MODIFICATIONS. SHOULD INSTALLATION OF CONDUCTORS AND CIRCUITING DIFFER FROM WHAT IS INDICATED WITHIN THIS DRAWING PACKAGE, PANELBOARD DIRECTORY CARD SHALL BE UPDATED TO REFLECT ACTUAL INSTALL. AS-BUILT DRAWINGS SHALL REFLECT ACTUAL CIRCUITING AS WELL. PANELBOARD SHALL BE LABELED PER DIVISION 16(26) SPECIFICATIONS (ENGRAVED PLASTIC NAMEPLATE INDICATING VOLTAGE, SOURCE, ETC.).
- BASE BID EXISTING DISCONNECT SHALL BE DISCONNECTED AND REMOVED. REFER TO ONELINE DIAGRAM AND PANEL SCHEDULES FOR MORE INFORMATION.
- BASE BID EXISTING ANTENNA ASSEMBLIES TO BE DISCONNECTED AND REMOVED BY ELECTRICAL CONTRACTOR AND RETURNED TO OWNER FOR RE-USE. REMOVE MOUNTING BRACKET, CABLEING AND CONDUIT BACK TO POINT OF TERMINATION. COORDINATE PHASING WITH OWNERS REPRESENTATIVE PRIOR TO DEMOLITION.
- BASE BID RELOCATE EXISTING DATA ANTENNA TO EXISTING WOOD POLE TO PROVIDE TEMPORARY DATA SERVICE DURING DEMOLITION. EXTEND EXISTING CABLE AND CONDUIT AS REQUIRED.
- BID ALTERNATE 'F': EXISTING DATA CABINET TO REMAIN OPERATIONAL UNTIL NEW FIBER, SERVER AND DATA DROPS ARE INSTALLED. COORDINATE PHASING WITH OWNERS REPRESENTATIVE PRIOR TO DEMOLITION.
- BASE BID EXISTING WOOD POLE AND ANTENNAS SHALL REMAIN OPERATIONAL UNTIL NEW FIBER AND SERVER ARE INSTALLED. COORDINATE PHASING WITH OWNERS REPRESENTATIVE PRIOR TO DEMOLITION.
- WORK SHALL BE INCLUDED IN BASE BID.



DEMOLITION POWER & SIGNAL PLAN  
BID ALTERNATE 'F'

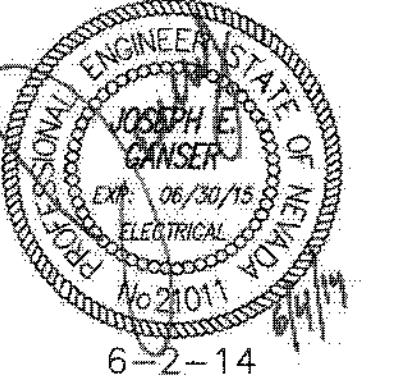
A  
E2.2

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

DEMOLITION POWER & SIGNAL UPPER FLOOR PLAN  
BID ALTERNATE 'F'

A  
E2.2

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



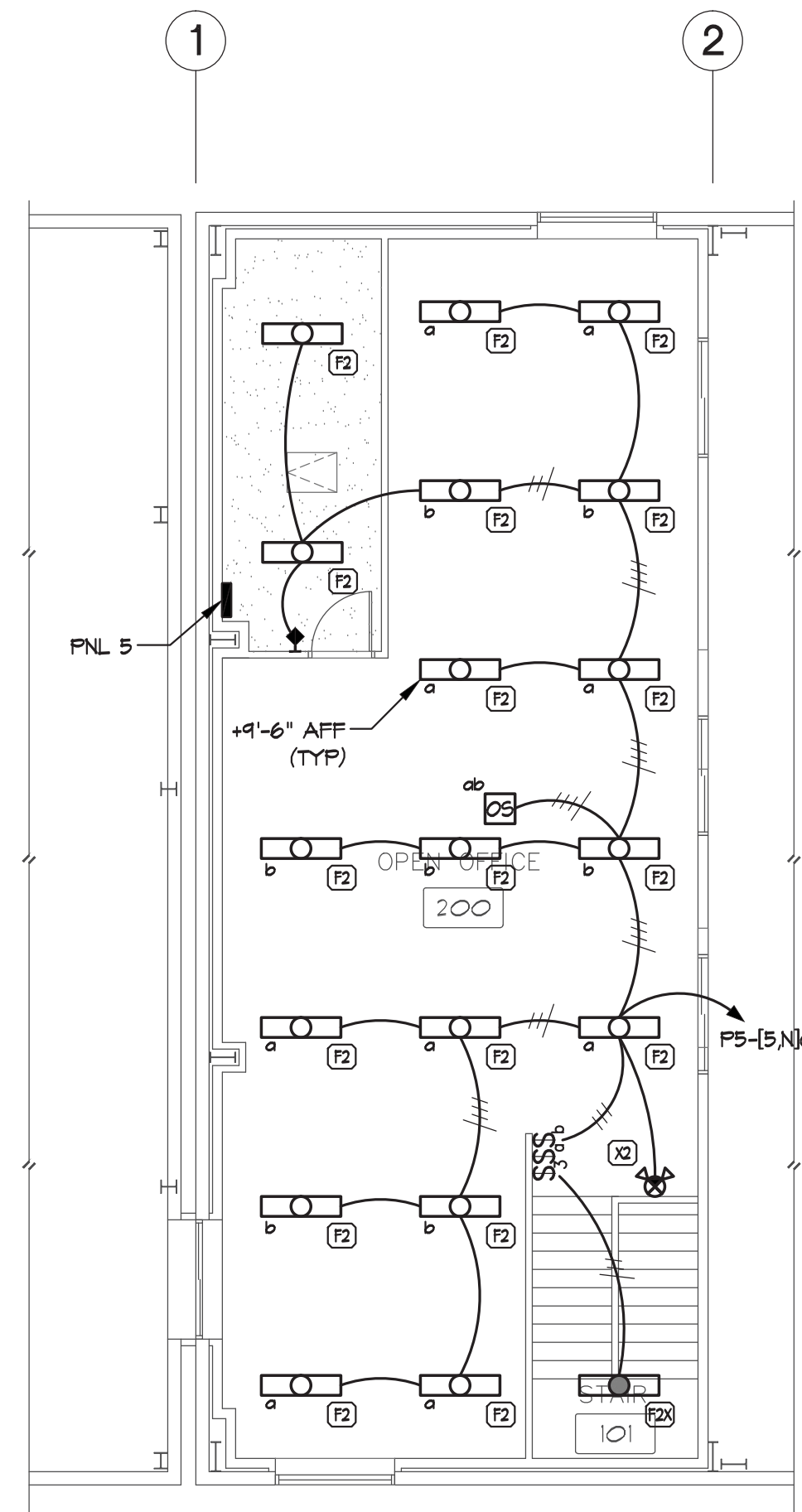
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MAINTENANCE  
FACILITY  
EXPANSION  
CARSON CITY,  
NEVADA

DATE 6-2-14  
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DRAWN JVA  
CHECKED JEG

BUILDING DEPARTMENT COMMENTS  
4/24/14

LIGHTING PLANS

E3.1



B  
E3.1  
UPPER LEVEL  
LIGHTING PLAN - BASE BID

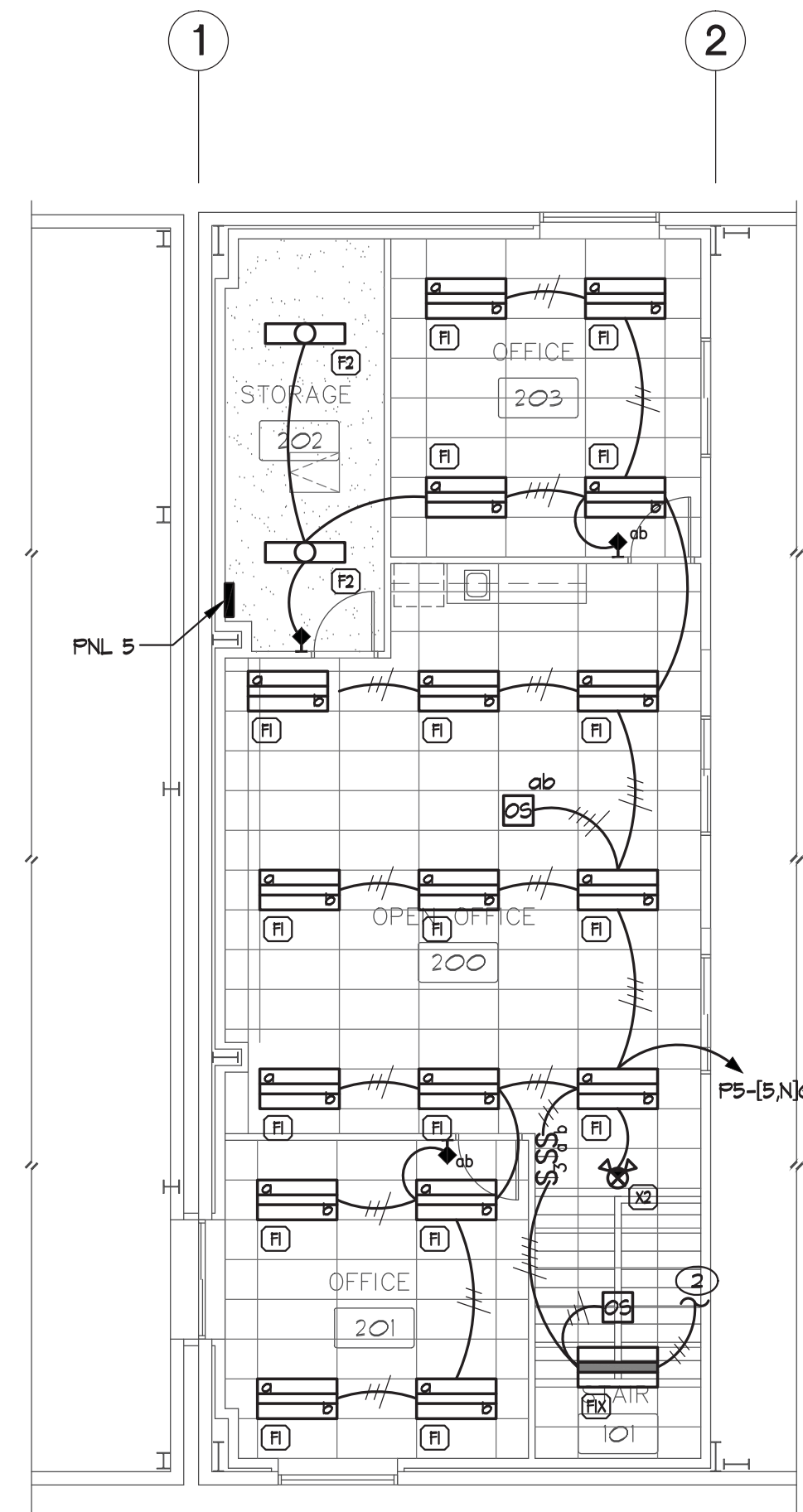
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- (E) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
- LIGHT FIXTURES DESIGNATED AS "EMERGENCY" SHALL BE WIRED TO OPERATE WITH LOCAL SWITCHING UNDER NORMAL POWER CONDITIONS AND SHALL OPERATE VIA EMERGENCY BATTERY PACK UPON LOSS OF BUILDING UTILITY POWER ONLY, UNLESS NOTED OTHERWISE.
- EXIT SIGNS SHALL BE WIRED AHEAD OF LOCAL SWITCHING FOR CONTINUOUS OPERATION. EXIT SIGNS SHALL BE WALL-MOUNTED ABOVE DOORS WHERE PRACTICAL. PROVIDE ADDITIONAL EXIT SIGNS AS NECESSARY FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, PER ARCHITECT'S FINAL PATH OF EGRESS / EXITING PLAN.
- PROVIDE MULTIPLE-GANG FACEPLATES AS NECESSARY WHERE TWO OR MORE LIGHT SWITCHES ARE INDICATED IN A COMMON LOCATION. SINGLE-GANG FACEPLATES FOR A GROUP OF LIGHT SWITCHES ARE NOT PERMITTED.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, ETC. FOR EXACT LOCATION OF LIGHT FIXTURES.
- EXACT LOCATION AND MOUNTING HEIGHT OF EXTERIOR BUILDING-MOUNTED FIXTURES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL FIXTURE LOCATIONS, ABOVE-CEILING HOUSING CLEARANCES, ETC. WITH MECHANICAL, PLUMBING, SPRINKLER CONTRACTOR AND OTHER TRADES PRIOR TO ROUGH-IN.
- CONDUIT FOR BUILDING-MOUNTED LIGHT FIXTURES SHALL BE ROUTED THROUGH INTERIOR OF BUILDING. LIGHT FIXTURE BACKBOXES SHALL BE RECESSED.
- CONTRACTOR SHALL REPLACE BROKEN DEVICES, COVER PLATES, ETC. WHERE NECESSARY WITHIN AREA OF SCOPE.
- REUSE EXISTING CONDUIT SYSTEMS FOR NEW WORK TO EXTENT POSSIBLE WHERE EXISTING LIGHT FIXTURES, DEVICES, ETC. ARE REMOVED DURING DEMOLITION PHASE.

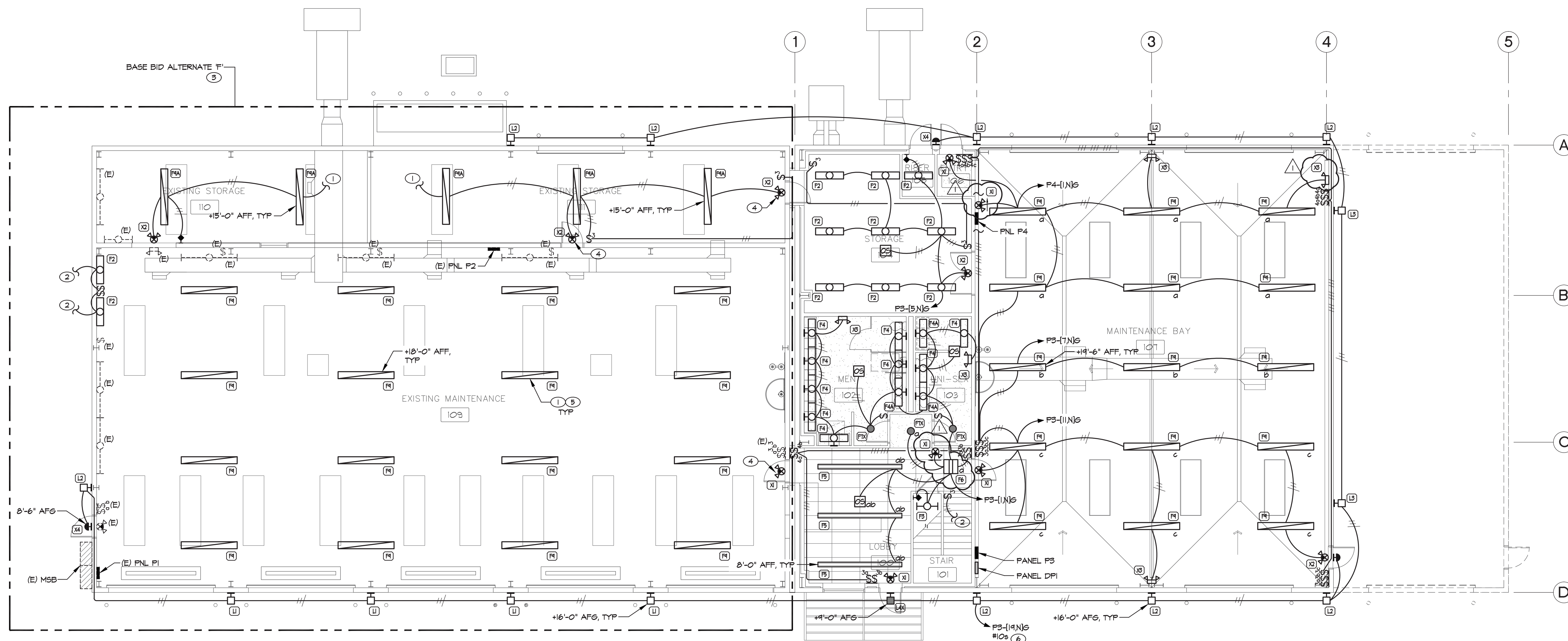
SHEET NOTES

- CONNECT TO EXISTING CIRCUIT MADE AVAILABLE DURING DEMOLITION.
- CONNECT TO LIGHT SWITCH ON NEXT FLOOR LEVEL ABOVE / BELOW.
- WORK IN EXISTING BUILDING SHALL BE INCLUDED IN BID ALTERNATE 'F' UNLESS NOTED OTHERWISE.
- WORK SHALL BE INCLUDED IN BASE BID.
- PROVIDE NEW NEMA 5-15 PLUG AND CORD TO MATCH EXISTING RECEPTACLE.
- PROVIDE HOMERUN CONDUCTOR AS INDICATED. PROVIDE #10 THAN FOR REMAINING LIGHTING BRANCH CIRCUIT.
- NOT REQUIRED FOR BID ALTERNATE 'B'.



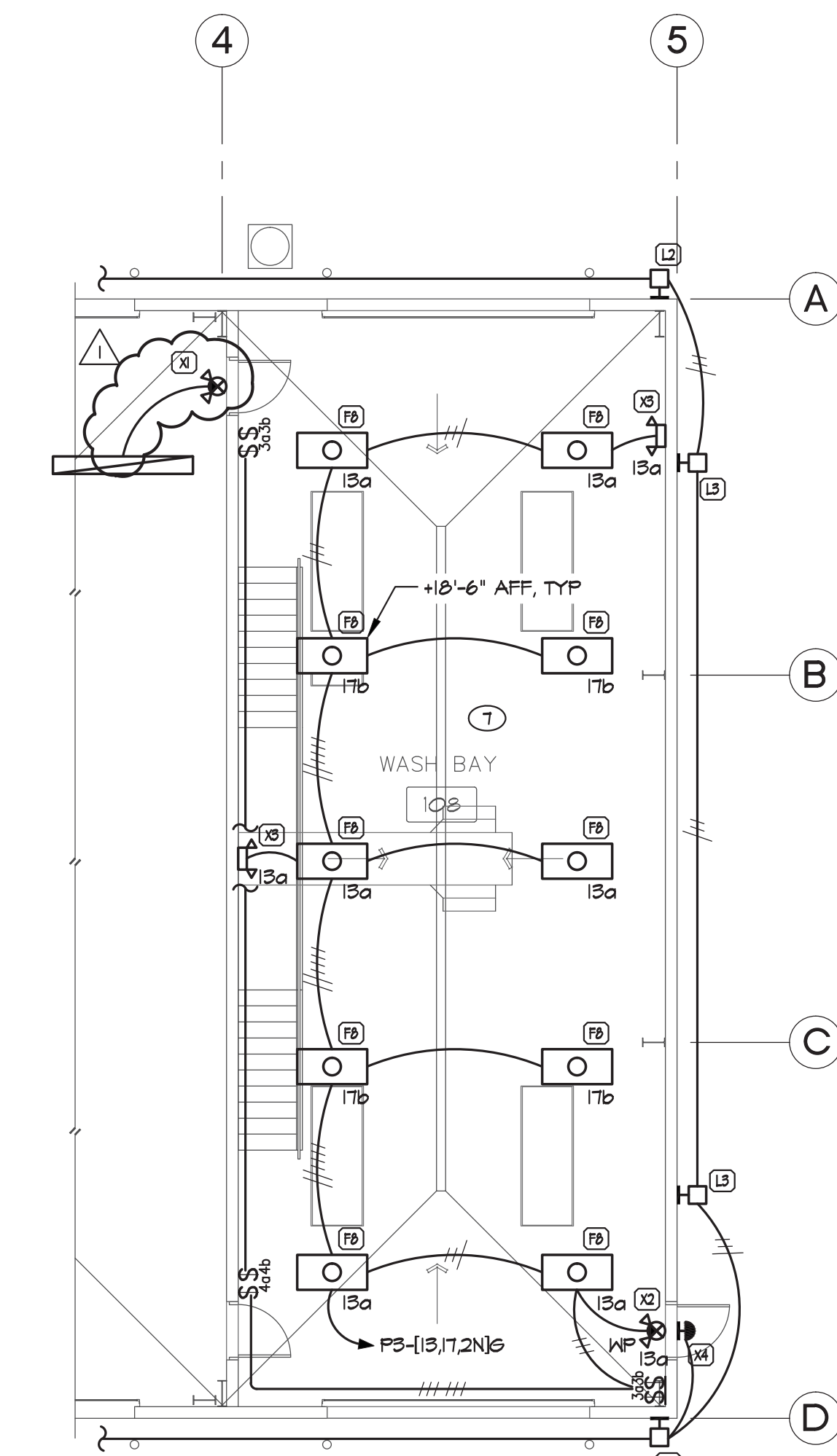
D  
E3.1  
UPPER LEVEL LIGHTING PLAN -  
ALTERNATE 'C'

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



A  
E3.1  
LIGHTING PLAN

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



C  
E3.1  
WASH BAY LIGHTING PLAN -  
ALTERNATE 'B'

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



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| CHECKED | JEG    |

## E3.2

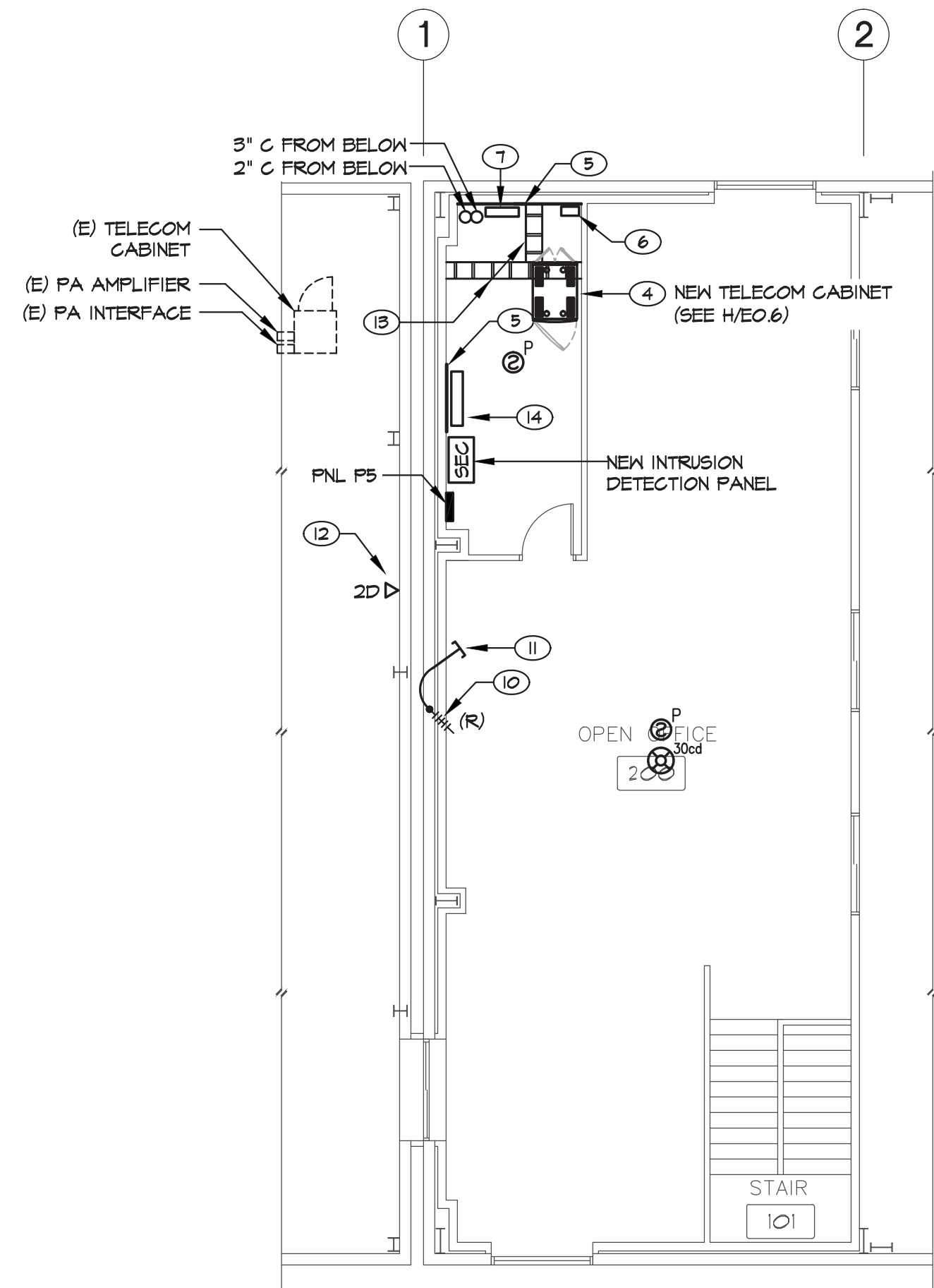


INTRUSION DETECTION & CARD ACCESS SYSTEM GENERAL NOTES

- FURNISH AND INSTALL A COMPLETE AND OPERATIONAL INTRUSION DETECTION SYSTEM. INSTALL ALL WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
  - ANSI/NFPA-70
  - UL 676 (BURGLAR ALARM AND SYSTEMS)
  - AMERICAN WITH DISABILITIES ACT (ADA).
- AT A MINIMUM, THE SYSTEM SHALL CONSIST OF THE FOLLOWING COMPONENTS:
  - MAGNETIC DOOR POSITION CONTACTS AT ALL EXTERIOR DOORS AND ROLL-UP DOORS.
  - GLASS BREAK DETECTORS AT EXTERIOR WINDOWS.
  - MOTION DETECTORS AT LOCATIONS SHOWN.
  - KEYPADS FOR ARMING AND DISARMING THE SYSTEM AT LOCATIONS SHOWN.
  - ZONED INTRUSION DETECTION PANEL WITH CAPACITY FOR ALL DEVICES SHOWN ON THE DRAWINGS PLUS 25% FUTURE EXPANSION.
  - AUTO DIALER.
  - POWER SUPPLIES TO POWER THE PANEL AND ALL DEVICES.
  - BATTERIES AND BATTERY CHARGERS. SUBMIT BATTERY CALCULATIONS FOR APPROVAL. BATTERIES SHALL BACKUP THE ENTIRE SYSTEM FOR A MINIMUM OF 2 HOURS.
- ALL SECURITY DEVICES INCLUDING DOOR POSITION CONTACTS, GLASS BREAK SENSORS AND MOTION SENSORS SHALL BE ADDRESSABLE. WHEN A DEVICE IS IN ALARM THE SYSTEM SHALL IDENTIFY AND REPORT THE LOCATION OF THE DEVICE.
- NOT ALL DEVICES AND CABLING ARE SHOWN ON THE PLAN. SUBMIT SHOP DRAWINGS FOR APPROVAL INCLUDING POINT-TO-POINT WIRING AND PANEL BLOCK DIAGRAMS SHOWING ALL DEVICES AND REQUIRED CABLING.
- ALL SECURITY CABLE SHALL BE ROUTED IN CONDUIT FROM THE DEVICES TO THE SECURITY PANEL.
- SUBMIT CUT SHEETS FOR APPROVAL OF ALL SECURITY DEVICES, PANELS, POWER SUPPLIES, BATTERIES, BATTERY CHARGERS AND CABLING.
- AT THE COMPLETION OF THE PROJECT, TEST AND COMMISSION THE ENTIRE SYSTEM. PROGRAM THE SYSTEM IN ACCORDANCE WITH OWNER REQUIREMENTS. PROVIDE 1-HOUR TRAINING TO THE OWNER AT THE COMPLETION OF THE PROJECT. PROVIDE 2 SETS OF O&M MANUALS. THE ENTIRE SECURITY SYSTEM SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR 1-YEAR FROM THE DATE OF FINAL ACCEPTANCE. CONTRACTOR WILL PROMPTLY REMEDY SUCH DEFECTS AND ANY SUBSEQUENT DAMAGE CAUSED BY THE DEFECTS OR REPAIR AT NO EXPENSE TO THE OWNER.

INTRUSION DETECTION SYSTEM LEGEND

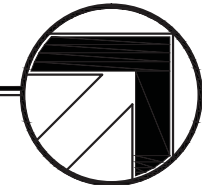
- |                |                                                                                                                                                         |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| SEC            | INTRUSION DETECTION CONTROL PANEL (HONEYWELL ADEMCO VISTA 128BP). PROVIDE DIALER, POWER SUPPLIES, BATTERIES AND BATTERY CHARGERS FOR THE ENTIRE SYSTEM. |
| K              | KEYPAD (HONEYWELL ADEMCO 6160). PROVIDE 18/4 PLENUM TWISTED PAIR CABLE TO EACH KEYPAD.                                                                  |
| C              | ADDRESSABLE MAGNETIC DOOR POSITION CONTACT (HONEYWELL ADEMCO 4434SN OR 4141SN). PROVIDE 18/4 PLENUM TWISTED PAIR CABLE TO EACH CONTACT.                 |
| C <sub>A</sub> | ADDRESSABLE MAGNETIC WINDOW POSITION CONTACT (HONEYWELL ADEMCO 4434SN OR 4141SN). PROVIDE 18/4 PLENUM TWISTED PAIR CABLE TO EACH CONTACT.               |
| C <sub>R</sub> | ADDRESSABLE MAGNETIC ROLLUP DOOR POSITION CONTACT (HONEYWELL ADEMCO 4434SN). PROVIDE 18/4 PLENUM TWISTED PAIR CABLE TO EACH CONTACT.                    |
| M              | ADDRESSABLE MOTION DETECTION SENSOR (HONEYWELL ADEMCO 152500SN W/MSB-10C MOUNT). PROVIDE 18/4 PLENUM TWISTED PAIR CABLE TO EACH SENSOR.                 |
| G              | ADDRESSABLE GLASS BREAK SENSOR (HONEYWELL ADEMCO F61625SN). PROVIDE 18/4 PLENUM TWISTED PAIR CABLE TO EACH SENSOR.                                      |
| CR             | CARD READER (FUTURE). PROVIDE CONDUIT ROUGHIN ONLY (SEE F/E0.6).                                                                                        |
| ES             | ELECTRIC STRIKE (FUTURE). PROVIDE CONDUIT ROUGHIN ONLY (SEE F/E0.6).                                                                                    |



UPPER LEVEL SIGNAL PLAN -  
BASE BID

B  
E4.1

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

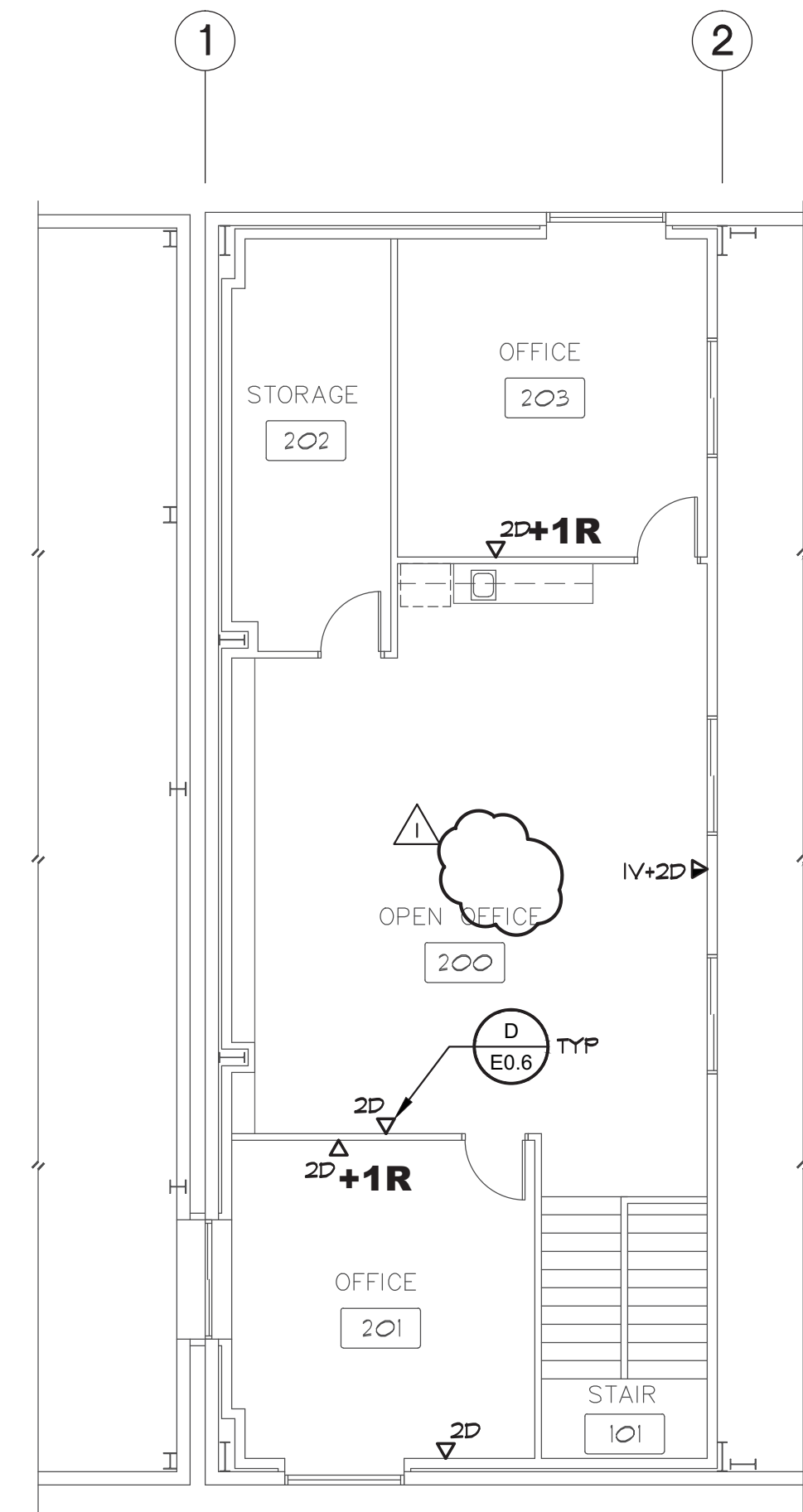


GENERAL TELECOM NOTES

- LOCATE TELECOM OUTLETS DIRECTLY ADJACENT TO ELECTRICAL OUTLETS TYPICAL. COORDINATE LAYOUT OF TELECOM OUTLETS WITH ELECTRICAL DRAWINGS.
- ROUTE ALL DATA CABLING IN CONDUIT FROM TELECOM OUTLET TO 2ND LEVEL TELECOM RACK.

TELECOM SHEET NOTES

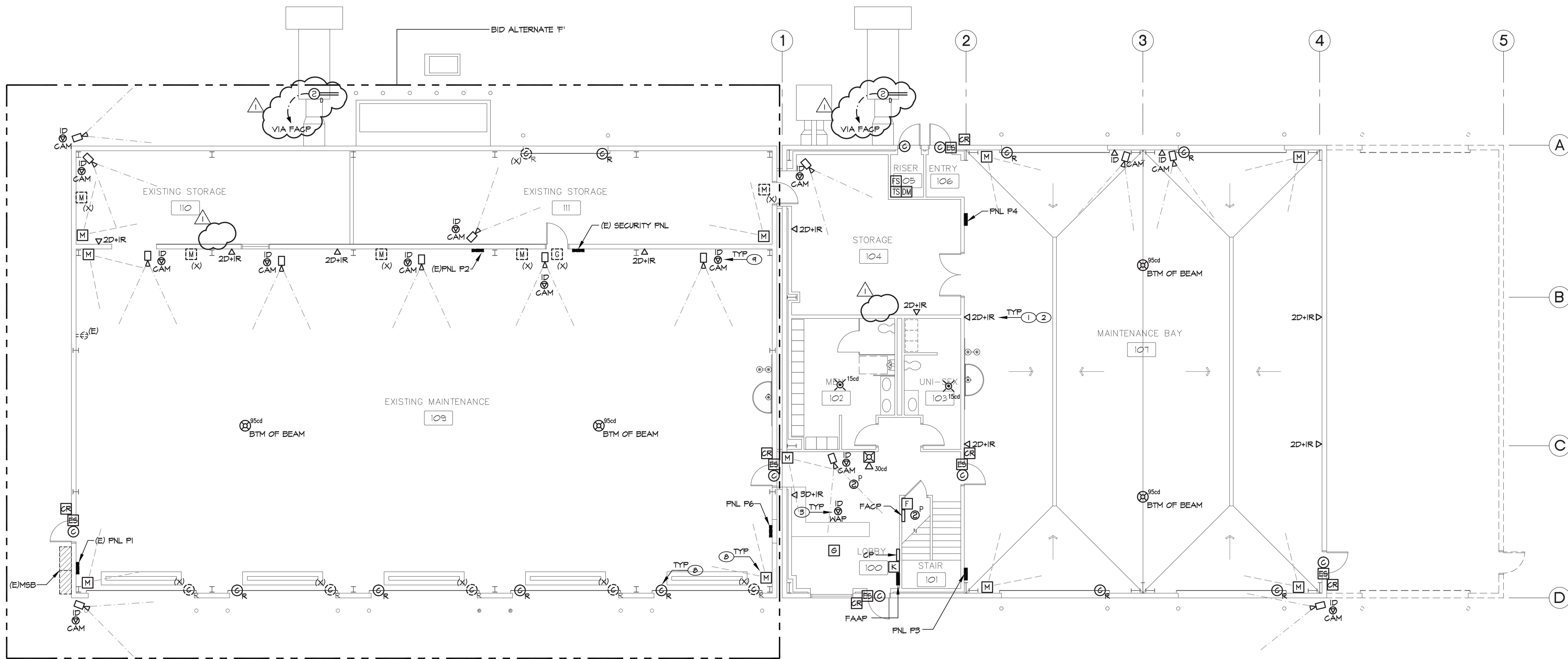
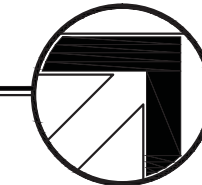
- INSTALL 1" CONDUIT FROM EACH TELECOM OUTLET TO UPPER LEVEL TELECOM RACK. SEE DETAILS B/E0.6 AND D/E0.6 FOR TYPICAL TELECOM OUTLET ROUGHIN DETAILS.
- INSTALL QTY OF CAT 6 DATA AND RADIO SYSTEM DROPS TO EACH TELECOM OUTLET AS SHOWN ON THE DRAWINGS. FOR EXAMPLE '2D+1R' = 2 CAT 6 DATA DROPS AND 1 CAT 6 RADIO DROP. DATA CABLES SHALL BE PLENUM RATED WITH AN ORANGE JACKET (COMMSCOPE 6504+ OR EQUAL). TERMINATE ALL DATA CABLES ON ORANGE CAT 6 DATA JACKS AT THE WORK AREA OUTLETS AND ON 48-PORT CAT 6 PATCH PANELS IN THE 2ND LEVEL TELECOM RACK. TERMINATE ALL RADIO CABLES ON BLUE CAT 6 DATA JACKS AT THE WORK AREA OUTLETS AND ON A 24-PORT WALL MOUNTED PATCH PANEL IN THE 2ND LEVEL OPEN OFFICE 200 (SEE NOTE 14).
- CAT 6 DATA OUTLET FOR WIRELESS ACCESS POINT LOCATED ABOVE CEILING. INSTALL DATA JACK IN 2-PORT SURFACE MOUNTED PLASTIC HOUSING (COMMSCOPE M1025MB-B-262). PROVIDE 25'-0" CABLE LOOP COILED ABOVE CEILING SO THAT THE WIRELESS ACCESS POINT CAN BE RELOCATED ANYWHERE WITHIN A 25'-0" RADIUS FROM THE LOCATION SHOWN ON THE DRAWINGS.
- UL LISTED LOCKABLE EQUIPMENT CABINET WITH 2 SETS OF ADJUSTABLE SQUARE PUNCHED MOUNTING RAILS. CABINET TO BE 64" HIGH X 31.5" WIDE X 42" DEEP WITH PERFORATED FRONT AND REAR DOORS (CHATSWORTH TERAFRAME F-SERIES P/N FF2N-15B-C22-B OR APPROVED EQUAL). PROVIDE QTY (2) 25-PACK OF CAGE NUTS (CHATSWORTH P/N 12634-001). BOLT CABINET TO CONCRETE WITH (4) 1/2" DIAMETER CONCRETE EXPANSION ANCHORS. INSTALL #6 GROUND WIRE FROM CABINET TO GROUND BAR. SEE H/E0.6 FOR ADDITIONAL REQUIREMENTS.
- 3/4" FIRE TREATED AC PLYWOOD (TYPICAL FOR ALL WALLS). RUN PLYWOOD SHEETS VERTICALLY FROM 6" AFF TO 8'-6". PAINT PLYWOOD WITH TWO COATS OF WHITE PAINT. MASK FIRE TREATMENT LABELS PRIOR TO PAINTING.
- UL LISTED 1/4" X 2" X 12" B1G51 PATTERNED COPPER TELECOM GROUNDING BUSBAR W/INSULATED STANDOFFS (CHATSWORTH P/N 15622-012). BOND BUSBAR TO MAIN ELECTRICAL PANEL SERVING THE ROOM AND BUILDING STEEL. BOND BUSBAR TO BUILDING STEEL AND ELECTRICAL PANEL SERVING ROOM WITH #4 GREEN INSULATED GROUND CONDUCTOR. SEE C/E0.6 FOR ADDITIONAL REQUIREMENTS.
- 24" DIAMETER WALL MOUNTED RECLOSABLE STORAGE RINGS FOR BACKBONE FIBER AND COPPER CABLING SLACK STORAGE (LEVITON P/N 48400-FR).
- NEW INTRUSION DETECTION DEVICE. INSTALL NEW CABLING FROM DEVICE TO 2ND LEVEL SECURITY PANEL. ROUTE ALL SECURITY CABLING IN CONDUIT.
- CAT 6 DATA OUTLET FOR IP VIDEO SURVEILLANCE CAMERA. INSTALL DATA JACK IN 2-PORT SURFACE MOUNTED PLASTIC HOUSING (COMMSCOPE M1025MB-B-262). COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH OWNER.
- WALL MOUNT ANTENNA FACING EAST. COORDINATE WITH OWNER FOR FINAL LOCATION PRIOR TO ROUGH-IN.
- FURNISH AND INSTALL 1-1/2" CONDUIT FROM ANTENNA TO FUTURE RADIO EQUIPMENT LOCATION.
- PROVIDE (2) CAT 6 DATA DROPS AT EXISTING NETWORK RACK IN UPPER MEZZANINE OFFICE. COORDINATE LOCATION WITH OWNER.
- 12" WIDE LADDER RACK MOUNTED AT 8'-0" AFF (CHATSWORTH 11252-112 OR EQUAL).
- 24-PORT CAT 6 PATCH PANEL FOR TERMINATION OF RADIO CABLING. WALL MOUNT ON 4X8 PLYWOOD BACKBOARD WITH 1R/1U WALL MOUNTING BRACKET.



UPPER LEVEL SIGNAL PLAN -  
ALTERNATE 'C'

D  
E4.1

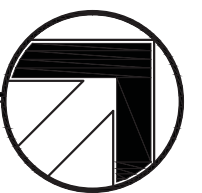
SCALE: 1/8" = 1'-0"



SIGNAL PLAN - BASE BID

A  
E4.1

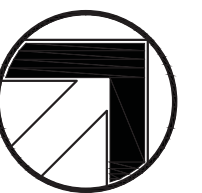
SCALE: 1/8" = 1'-0"



WASH BAY SIGNAL PLAN -  
ALTERNATE 'B'

C  
E4.1

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



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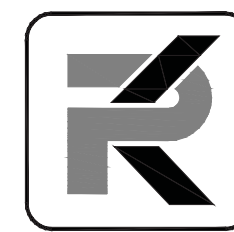
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SIGNAL PLANS

E4.1



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