

SEAL

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Table with columns: NO, DATE SUBMITTED, DATE APPROVED, DESCRIPTION. Includes entries for TELE/DATA OUTLET BOX, THERMOSTAT OUTLET BOX, TELEVISION OUTLET IN WALL.

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BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS E.S. MODERNIZATION

815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.: NA, PROJECT NO.: 19122-01-38, DRAWN BY: VPZ, CHKD BY: DF, ISSUE DATE: 1/28/2020, SHEET TITLE

SYMBOLS & GENERAL NOTES

E100

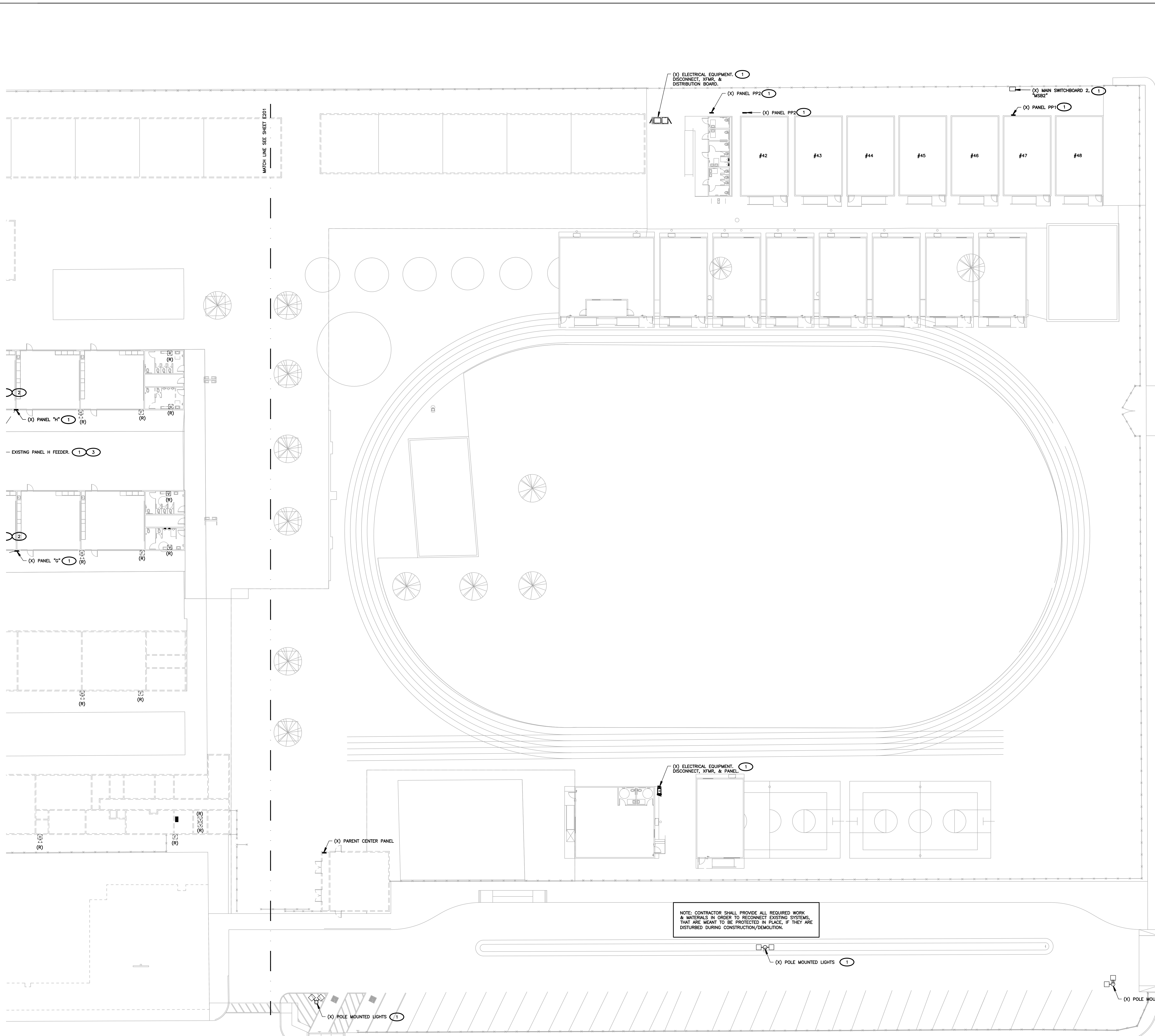
ELECTRICAL SYMBOL LIST

Annotations & Callouts, CONDUIT & WIRING SYMBOLS, LIGHTING FIXTURE SYMBOLS, FIRE ALARM SYMBOLS. Includes various symbols for conduits, wires, lighting fixtures, and fire alarm components.

GENERAL ELECTRICAL NOTES: 2.) DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS SHOWN... 3.) ALL CONDUIT RUNS SHALL BE CONCEALED... 4.) EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS... 5.) ALL WORK SHOWN IS NEW UNLESS SPECIFICALLY INDICATED AS EXISTING (X)...

ABBREVIATIONS: A or AMP AMPERES, AF ALTERING CURRENT, AF FRAM/AMP FUSE, AFH ARCHITECTURAL... U.L. STANDARD 488B TORQUING RECOMMENDATIONS: THIGHTENING TORQUE FOR SCREWS (a) TORQUE, POUND - INCHES... CEC WIRE FILL TABLE 370-16

CONSTRUCTION DOCUMENTS



SHEET NOTES

- CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
- VERIFY LOCATION OF ALL BUILDINGS AND APPURTENANCES ON ARCHITECTURAL AND CIVIL PLANS.
- FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
- VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS, FOR 0-600 VOLT SYSTEMS.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 1" CONDUIT MINIMUM UNDERGROUND.
- COORDINATE WORK WITH OTHER TRADES, OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUIT MANUFACTURERS' RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED, COORDINATE WITH DISTRICT REPRESENTATIVE.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH COMPRESSION NYLON PULL STRING.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

KEYNOTES
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

- 1 PROTECT IN PLACE.
- 2 LOCATED ON ROOF.
- 3 SHOWN DIAGRAMMATIC. EXACT ROUTING IS UNKNOWN.
- 4 EXACT TIMING OF THE REMOVAL OF THIS EQUIPMENT SHALL BE COORDINATED WITH BCSD REPRESENTATIVE. ALL WORK ASSOCIATED WITH REMOVAL SHALL BE VERIFIED & CLEARED WITH POLE COMPANY PRIOR TO STARTING CONSTRUCTION.
- 5 THIS EQUIPMENT SHALL BE PROTECTED IN PLACE UNTIL NEW "MSB" IS INSTALLED, ENERGIZED, & EXISTING "MSB" IS OUT OVER & BACKED. EXACT TIMING & PHASING OF REMOVAL SHALL BE COORDINATED WITH POLE BCSD REPRESENTATIVE, & FINAL POLE CONSTRUCTION/DEMOLITION DRAWINGS.
- 6 EXACT TIMING OF THE REMOVAL OF THIS EQUIPMENT SHALL BE COORDINATED WITH BCSD REPRESENTATIVE.

OWENS STREET

DEMOLITION LEGEND	
(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE IF DISTURBED DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED BRANCH AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED MAINLINE & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.

NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CIVIL ENGINEERING DRAWINGS AND SITE AS-BUILTS (OBTAIN FROM OWNER) TO IDENTIFY THE LOCATION AND ROUTING OF ALL EXISTING UNDERGROUND UTILITIES, METERS, DRAINS, LANDSCAPING AND STRUCTURAL OBSTACLES PRIOR TO TRENCHING AND CONDUIT DUCT BANK ROUTING. THE CONTRACTOR SHALL CONDUCT AN UNDERGROUND SCAN OF THE CONDUIT WHERE NEW TRENCHING SHALL OCCUR, AND TO COORDINATE THE ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND UTILITIES. TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE INDICATED BY HAND AND WITH EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION. UNDERGROUND POWER AND COMMUNICATION PULL BOXES WHERE SHOWN ON THE SITE PLAN TO BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWING. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER IF ANY EXISTING UTILITY OR IRRIGATION LINE IS DAMAGED, AND SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.

NOTE: CONTRACTOR SHALL PROVIDE ALL REQUIRED WORK & MATERIALS IN ORDER TO RECONNECT EXISTING SYSTEMS THAT ARE MEANT TO BE PROTECTED IN PLACE, IF THEY ARE DISTURBED DURING CONSTRUCTION/DEMOLITION.

1 PARTIAL SITE ELECTRICAL DEMOLITION PLAN (SHEET #2)
SCALE: 1"=20'-0"

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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SS FLS ACS
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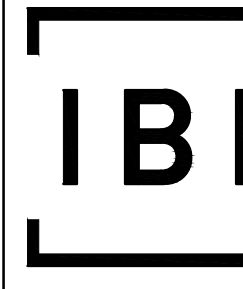
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BAKERSFIELD CITY SCHOOL DISTRICT



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815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.: NA
PROJECT NO.: 19122.01-38
DRAWN BY: VPZ
CHKD BY: DF
ISSUE DATE: 1/28/2020

SHEET TITLE

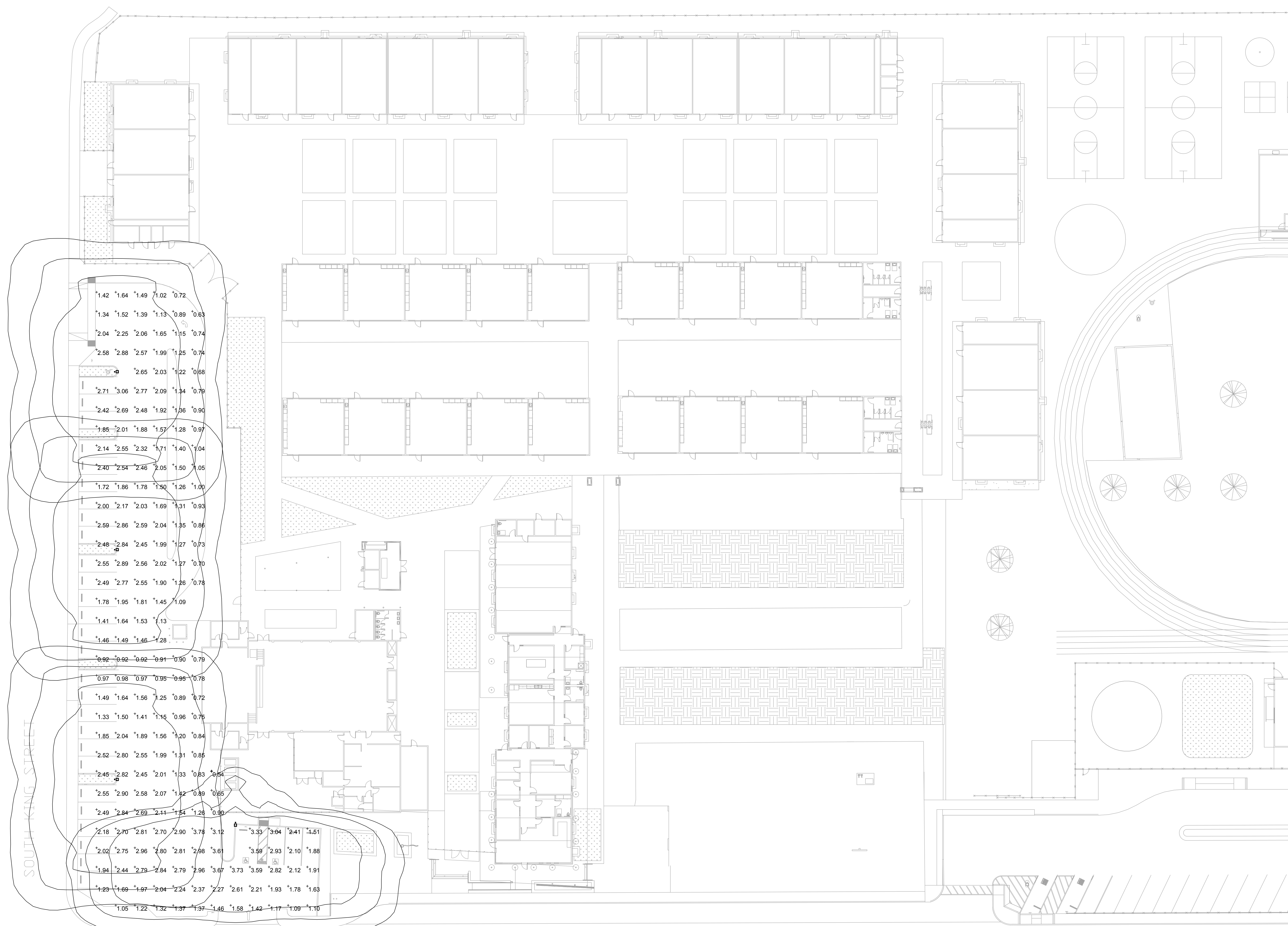
PARTIAL SITE ELECTRICAL DEMOLITION PLAN SHEET #2

SHEET NUMBER

E202



CONSTRUCTION DOCUMENTS



1 PARTIAL SITE PHOTOMETRIC PLAN
SCALE: 1"=20'-0"

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OPSC or OSHPD PROJ. NO:	NA
PROJECT NO:	19122.01-38
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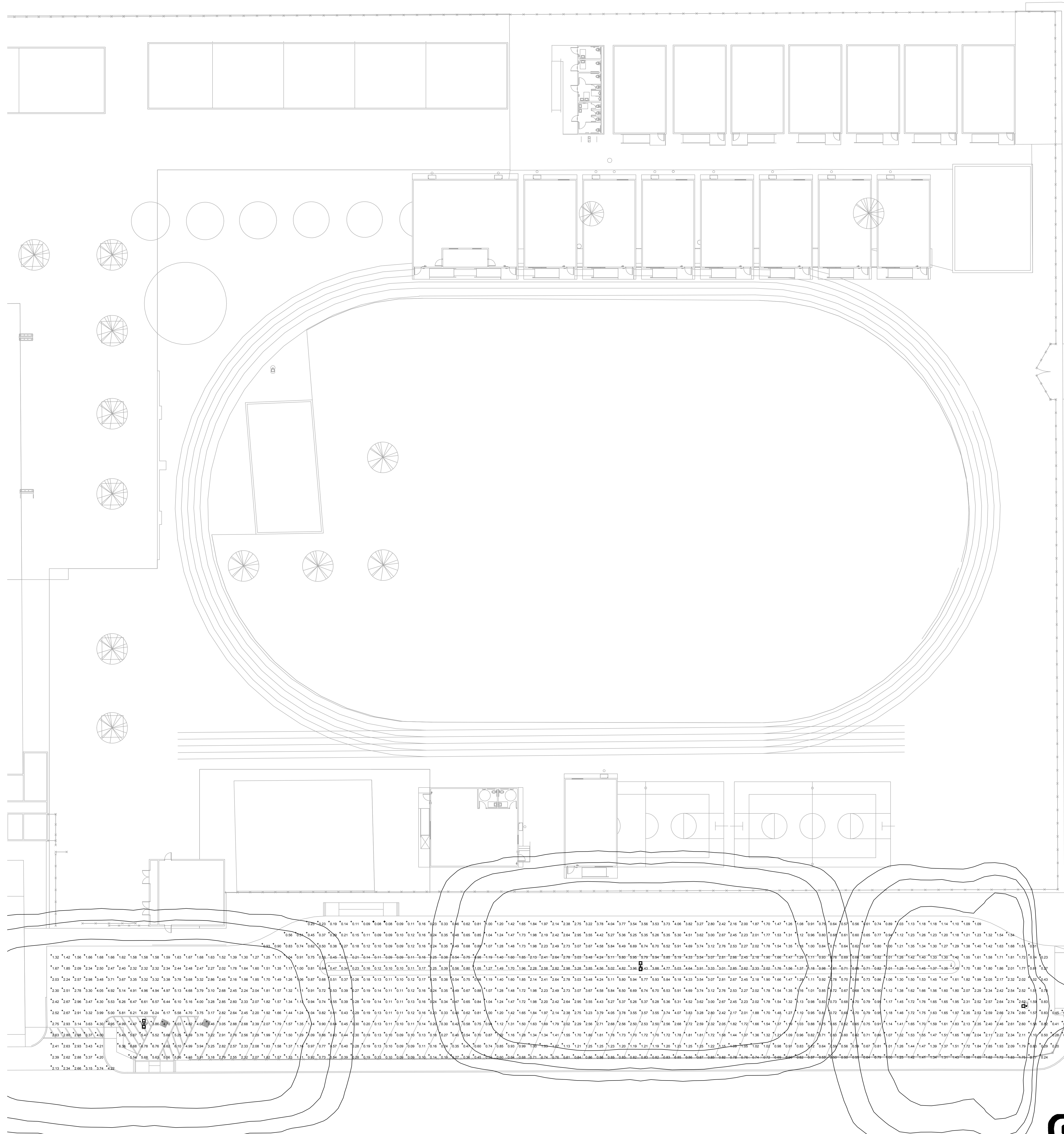
SHEET TITLE

PARTIAL SITE PHOTOMETRIC PLAN(EAST)

SHEET NUMBER

E203

CONSTRUCTION DOCUMENTS



1 PARTIAL SITE PHOTOMETRIC PLAN
SCALE: 1"=20'-0"



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OPSC or OSHPD PROJ. NO.:	NA
PROJECT NO.:	19122-01-38
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	1/28/2020
SHEET TITLE:	

PARTIAL SITE PHOTOMETRIC PLAN(WEST)

SHEET NUMBER

E204

CONSTRUCTION DOCUMENTS

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OPSC or OSHPD PROJ. NO.	NA
PROJECT NO.	19122.01-38
DRAWN BY:	VPZ
CHKD BY:	DF
ISSUE DATE:	3/18/2020

SHEET TITLE

PARTIAL SITE LIGHTING PLAN (EAST)

SHEET NUMBER

E205

SHEET NOTES

- CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 5 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
- VERIFY LOCATION OF ALL BUILDINGS AND APPURTENANCES ON ARCHITECTURAL AND CIVIL PLANS.
- FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID. PROVIDE PROPOSAL, ROUGH-IN, AND FINISH.
- CONTRACTOR SHALL IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER RECORD SHALL BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL. WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
- VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- MINIMUM CONDUIT BURIAL DEPTH IS 24" 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 1" CONDUIT MINIMUM UNDERGROUND.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, SIZES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED PLUG OR FILL STRING.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

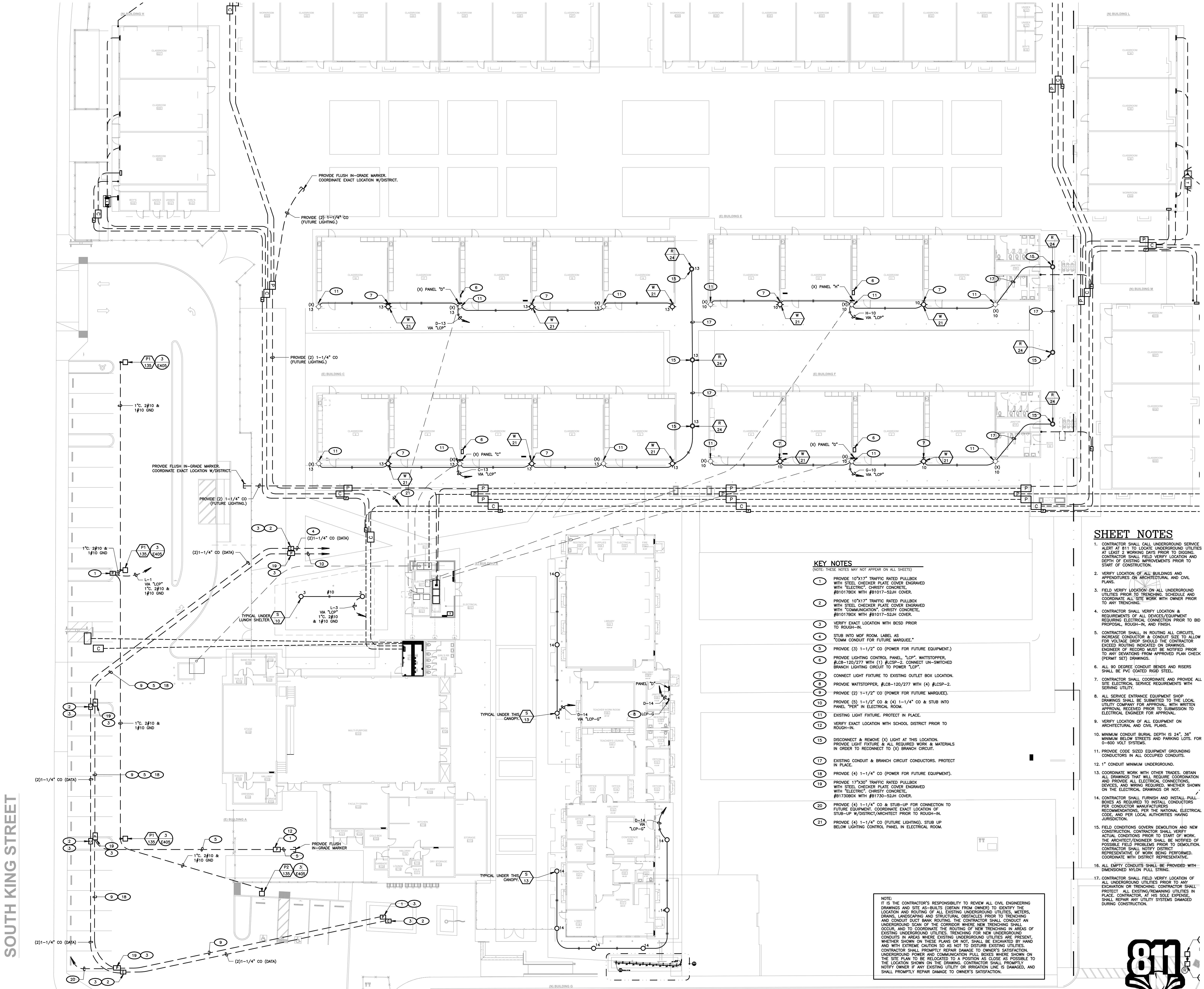
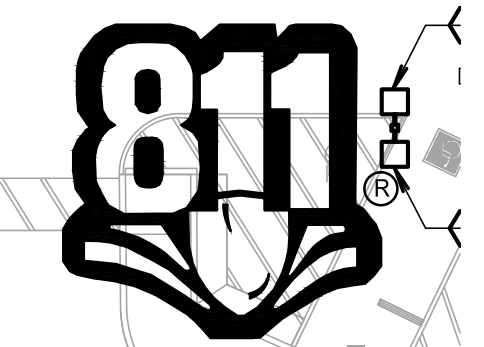
KEY NOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

- PROVIDE 10"x11" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC", CHRISTY CONCRETE, #81075BOX WITH #81017-524H COVER.
- PROVIDE 12"x11" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "COMMUNICATION", CHRISTY CONCRETE, #81075BOX WITH #81017-524H COVER.
- VERIFY EXACT LOCATION WITH BCSD PRIOR TO ROUGH-IN.
- STUB INTO MDF ROOM, LABEL AS "COMM CONDUIT FOR FUTURE MARQUEE."
- PROVIDE (3) 1-1/2" CO (POWER FOR FUTURE EQUIPMENT).
- PROVIDE LIGHTING CONTROL PANEL, "LCP", WATSTOPPER, #LCB-120/277 WITH (1) #LCP-2, CONNECT UN-SWITCHED BRANCH LIGHTING CIRCUIT TO POWER "LCP".
- CONNECT LIGHT FIXTURE TO EXISTING OUTLET BOX LOCATION.
- PROVIDE WATSTOPPER, #LCB-120/277 WITH (4) #LCP-2.
- PROVIDE (2) 1-1/2" CO (POWER FOR FUTURE MARQUEE).
- PROVIDE (5) 1-1/2" CO & (4) 1-1/4" CO & STUB INTO PANEL "PERK" IN ELECTRICAL ROOM.
- EXISTING LIGHT FIXTURE, PROTECT IN PLACE.
- VERIFY EXACT LOCATION WITH SCHOOL DISTRICT PRIOR TO ROUGH-IN.
- EXISTING CONDUIT & BRANCH CIRCUIT CONDUCTORS, PROTECT IN PLACE.
- PROVIDE (4) 1-1/4" CO (POWER FOR FUTURE EQUIPMENT).
- PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC", CHRISTY CONCRETE, #81730BOX WITH #81730-524H COVER.
- PROVIDE (4) 1-1/4" CO & STUB-UP FOR CONNECTION TO FUTURE EQUIPMENT. COORDINATE EXACT LOCATION OF STUB-UP W/DISTRICT/ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE (4) 1-1/4" CO (FUTURE LIGHTING), STUB UP BELOW LIGHTING CONTROL PANEL IN ELECTRICAL ROOM.

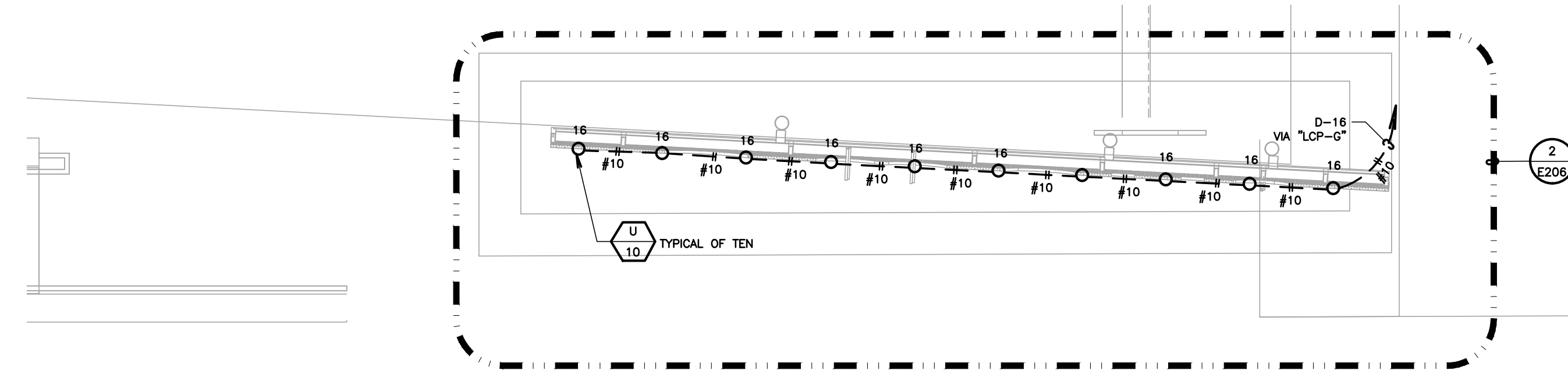
NOTE:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CIVIL ENGINEERING DRAWINGS AND SITE AS-BUILTS (OBTAIN FROM OWNER) TO IDENTIFY THE LOCATION AND ROUTING OF ALL EXISTING UNDERGROUND UTILITIES, METERS, DRAINS, LANDSCAPING AND STRUCTURAL OBSTACLES PRIOR TO TRENCHING AND CONDUIT DUCT BANK ROUTING. THE CONTRACTOR SHALL CONDUCT AN UNDERGROUND SCAN OF THE CORRIDOR WHERE NEW TRENCHING SHALL OCCUR, AND TO COORDINATE THE ROUTING OF NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE EXERCISED BY HAND AND WITH EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION. UNDERGROUND POWER AND COMMUNICATION PULL BOXES WHERE SHOWN ON THE SITE PLAN TO BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWING. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER IF ANY EXISTING UTILITY OR IRRIGATION LINE IS DAMAGED, AND SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.

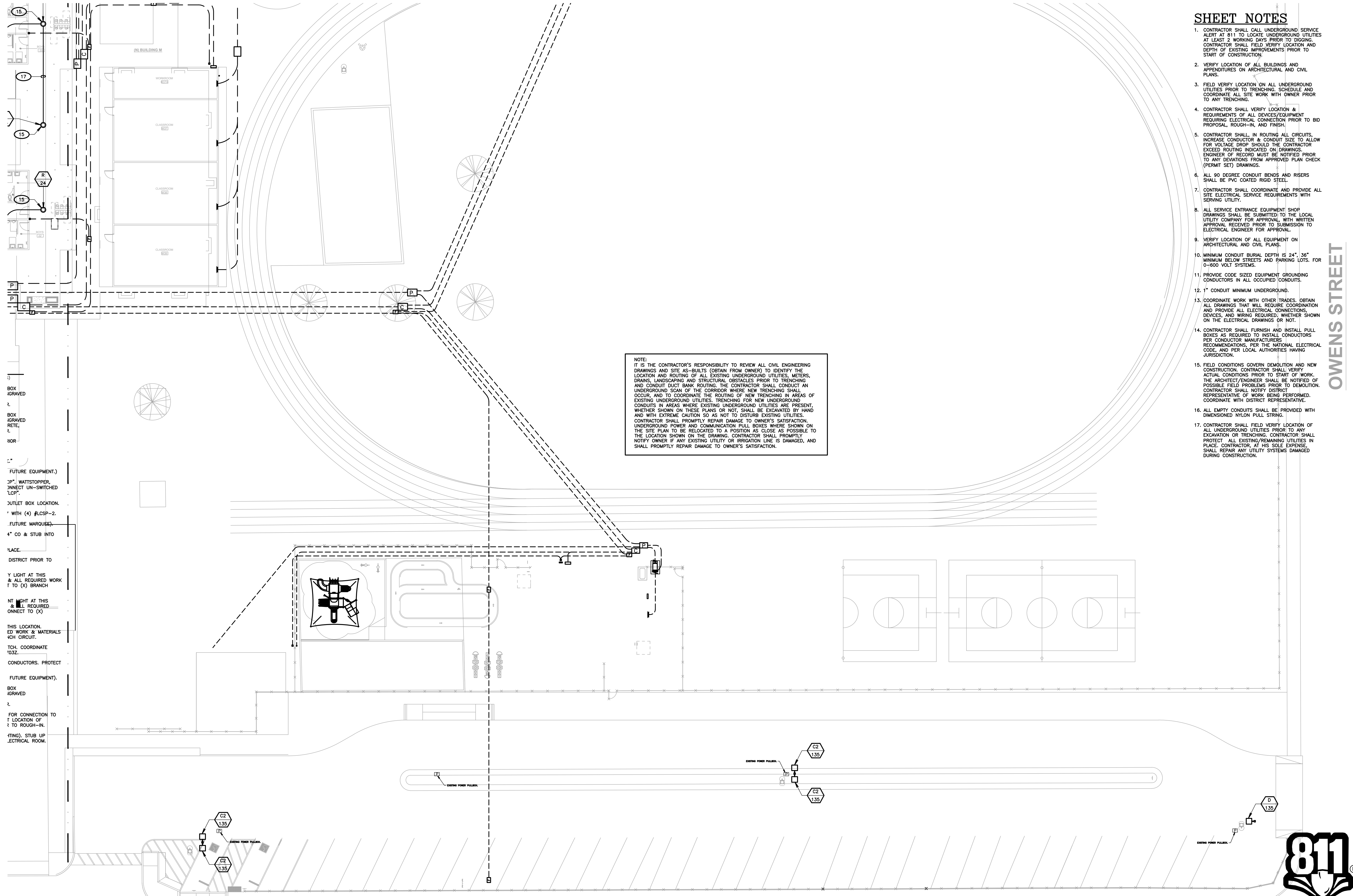


1 PARTIAL SITE LIGHTING PLAN
 SCALE: 1/16"=1'-0"

SOUTH KING STREET



2 SIGN LIGHTING PLAN
SCALE: 1/4"=1'-0"



NOTE:
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- 78. BOX GRAVED
- 79. BOX GRAVED
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- 81. BOX GRAVED
- 82. BOX GRAVED
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- 86. BOX GRAVED
- 87. BOX GRAVED
- 88. BOX GRAVED
- 89. BOX GRAVED
- 90. BOX GRAVED
- 91. BOX GRAVED
- 92. BOX GRAVED
- 93. BOX GRAVED
- 94. BOX GRAVED
- 95. BOX GRAVED
- 96. BOX GRAVED
- 97. BOX GRAVED
- 98. BOX GRAVED
- 99. BOX GRAVED
- 100. BOX GRAVED

1 PARTIAL SITE LIGHTING PLAN
SCALE: 1/16"=1'-0"

SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
2. VERIFY LOCATION OF ALL BUILDINGS AND APPURTENANCES ON ARCHITECTURAL AND CIVIL PLANS.
3. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
5. CONTRACTOR SHALL IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
10. MINIMUM CONDUIT BURIAL DEPTH IS 24" 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUIT MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
15. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
17. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

OWENS STREET



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BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS E.S. MODERNIZATION
815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO: NA
PROJECT NO: 19122.01-38
DRAWN BY: VPZ
CHK'D BY: DF
ISSUE DATE: 1/28/2020

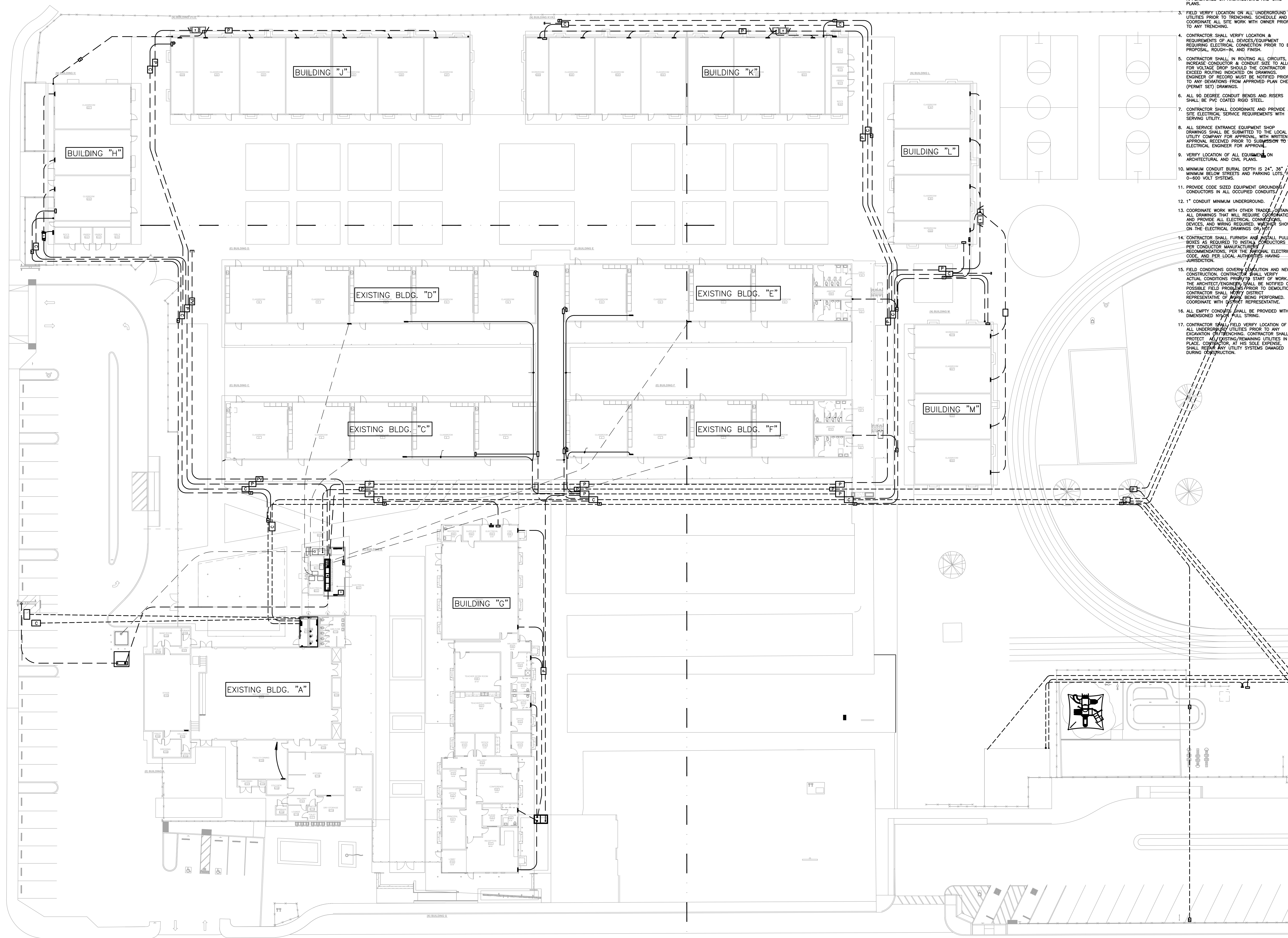
SHEET TITLE

PARTIAL SITE LIGHTING PLAN (WEST)

SHEET NUMBER

E206

CONSTRUCTION DOCUMENTS



SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 5 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
2. VERIFY LOCATION OF ALL BUILDINGS AND APPERTURES ON ARCHITECTURAL AND CIVIL PLANS.
3. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DRAWINGS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
10. MINIMUM CONDUIT BURIAL DEPTH IS 24" 36" MINIMUM BELOW STREETS AND PARKING LOTS FOR 0-500 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES, OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUIT MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL JURISDICTIONS HAVING JURISDICTION.
15. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL VERIFY DISTINGUISH REPRESENTATIVE OF WORK BEING PERFORMED, COORDINATE WITH PROJECT REPRESENTATIVE.
16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
17. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CIVIL ENGINEERING DRAWINGS AND SITE AS-BUILTS (OBTAIN FROM OWNER) TO IDENTIFY THE LOCATION AND ROUTING OF ALL EXISTING UNDERGROUND UTILITIES, METERS, DRAINS, LANDSCAPING AND STRUCTURAL OBSTACLES PRIOR TO TRENCHING AND CONDUIT DUCT BANK ROUTING. THE CONTRACTOR SHALL CONDUCT AN UNDERGROUND SCAN OF THE CORRIDOR WHERE NEW TRENCHING SHALL OCCUR, AND TO COORDINATE THE ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND UTILITIES. TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION. UNDERGROUND POWER AND COMMUNICATION PULL BOXES WHERE SHOWN ON THE SITE PLAN TO BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWING. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER IF ANY EXISTING UTILITY OR IRRIGATION LINE IS DAMAGED, AND SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.



Call before you dig.

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BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS E.S. MODERNIZATION
815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.	NA
PROJECT NO.	19122.01-38
DRAWN BY:	VPZ
CHKD BY:	DF
ISSUE DATE:	1/29/2020

SHEET TITLE

SITE ELECTRICAL PLAN

SHEET NUMBER

E300

SOUTH KING STREET

POTOMAC AVENUE

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

CONSTRUCTION DOCUMENTS

KEY NOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

- 1 REFER TO SINGLE LINE DIAGRAM.
- 2 BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
- 3 PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING LIGHTING BRANCH CIRCUIT TO PROVIDE TITLE 24 COMPLIANT OCCUPANCY SENSOR CONTROL. PROVIDE ALL REQUIRED RELAYS, POWER PACKS, & SENSORS FOR A COMPLETE SYSTEM.
- 4 FOR FEEDER INFORMATION REFER TO SINGLE LINE DIAGRAM. (PROVIDE FEEDERS)
- 5 PROVIDE (1) 20/1P CIRCUIT BREAKER IN EXISTING SPACE OR USE SPARE 20/1P CIRCUIT BREAKER. THE CIRCUIT BREAKER SHALL HAVE CLEAR MARKING & BE IDENTIFIED AS TYPE ALARM CIRCUIT CONTROLLER. PROVIDE A LOCK-ON DEVICE ON THE CIRCUIT BREAKER HANDLE. CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE "FACP" & "EVAC". PROVIDE SURGE SUPPRESSORS ON THE INPUT OF CONTROL PANELS EXCEPT FOR CONTROL PANELS WITH BUILT-IN SURGE SUPPRESSORS.
- 6 PROVIDE TVSS TYPE 120V/20A RECEPTACLE. LOCATE IN REAR WOOD.
- 7 PROVIDE 13"x24" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/"ELECTRIC". #B1324BOX W/B1324-51JH COVER, BY CHRISTY CONCRETE.
- 8 PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/"ELECTRIC". #B1730BOX W/B1730-51JH COVER, BY CHRISTY CONCRETE.
- 9 RISE UP TO SIGNAL TERMINAL CABINET.
- 10 PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/"COMMUNICATION". #B1730BOX W/B1730-51JH COVER, BY CHRISTY CONCRETE.
- 11 EXISTING COMMUNICATIONS PULLBOX, 24"x36".
- 12 LOCATE IN HUBBEL #RE4XBOX.
- 13 PROVIDE 30"x48" TRAFFIC RATED PULLBOX W/STEEL CHECKER PLATE COVER ENGRAVED W/"ELECTRIC". #B3048BOX W/#B3048-51JH COVER, BY CHRISTY CONCRETE.
- 14 FIRE ALARM REMOTE AMPLIFIER & POWER SUPPLY.
- 15 ALL WORK & LOCATIONS SHALL BE COORDINATED WITH FINAL P&E CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION. VERIFY & PROVIDE ALL WORK PER P&E COMPANY REQUIREMENTS.
- 16 PROVIDE 24"x36" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "PV SYSTEM". #E2436BOX W/E2436-51JH COVER, BY CHRISTY CONCRETE.
- 17 RISE FEEDER UP TO ROOFTOP. CONTRACTOR SHALL WALK SITE W/ARCHITECT PRIOR TO STARTING CONSTRUCTION & VERIFY EXACT LOCATION WHERE FEEDERS WILL RISE UP TO ROOFTOP.
- 18 (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.
- 19 PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEMA 3R PULLBOXES, AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
- 20 PROTECT IN PLACE.
- 21 COMMUNICATIONS PULLBOX. PROVIDE TIGHT TO CANOPY CEILING.
- 22 ROUTE TIGHT TO CEILING OF CANOPY STRUCTURE W/ALL REQUIRED CEC CONDUIT SUPPORTS.
- 23 PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEMA 3R PULLBOXES, AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
- 24 (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.

NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CIVIL ENGINEERING DRAWINGS AND SITE AS-BUILTS (OBTAIN FROM OWNER) TO IDENTIFY THE LOCATION AND ROUTING OF ALL EXISTING UNDERGROUND UTILITIES, METERS, DRAINS, LANDSCAPING AND STRUCTURAL OBSTACLES PRIOR TO TRENCHING AND CONDUIT DUCT BANK ROUTING. THE CONTRACTOR SHALL CONDUCT AN UNDERGROUND SCAN OF THE CORRIDOR WHERE NEW TRENCHING SHALL OCCUR, AND TO COORDINATE THE ROUTING OF NEW TRENCHING AND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT. WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION. UNDERGROUND POWER AND COMMUNICATION PULL BOXES WHERE SHOWN ON THE SITE PLAN TO BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWING. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER OF ANY EXISTING UTILITY OR IRRIGATION LINE IS DAMAGED, AND SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.

SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
2. VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS.
3. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUIT & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
10. MINIMUM CONDUIT BURIAL DEPTH IS 24". 34" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED. WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
15. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
17. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/NEW UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

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BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS E.S. MODERNIZATION
815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO: NA
PROJECT NO: 19122.01-38
DRAWN BY: VPZ
CHKD BY: DF
ISSUE DATE: 1/29/2020

SHEET TITLE

PARTIAL SITE ELECTRICAL PLAN

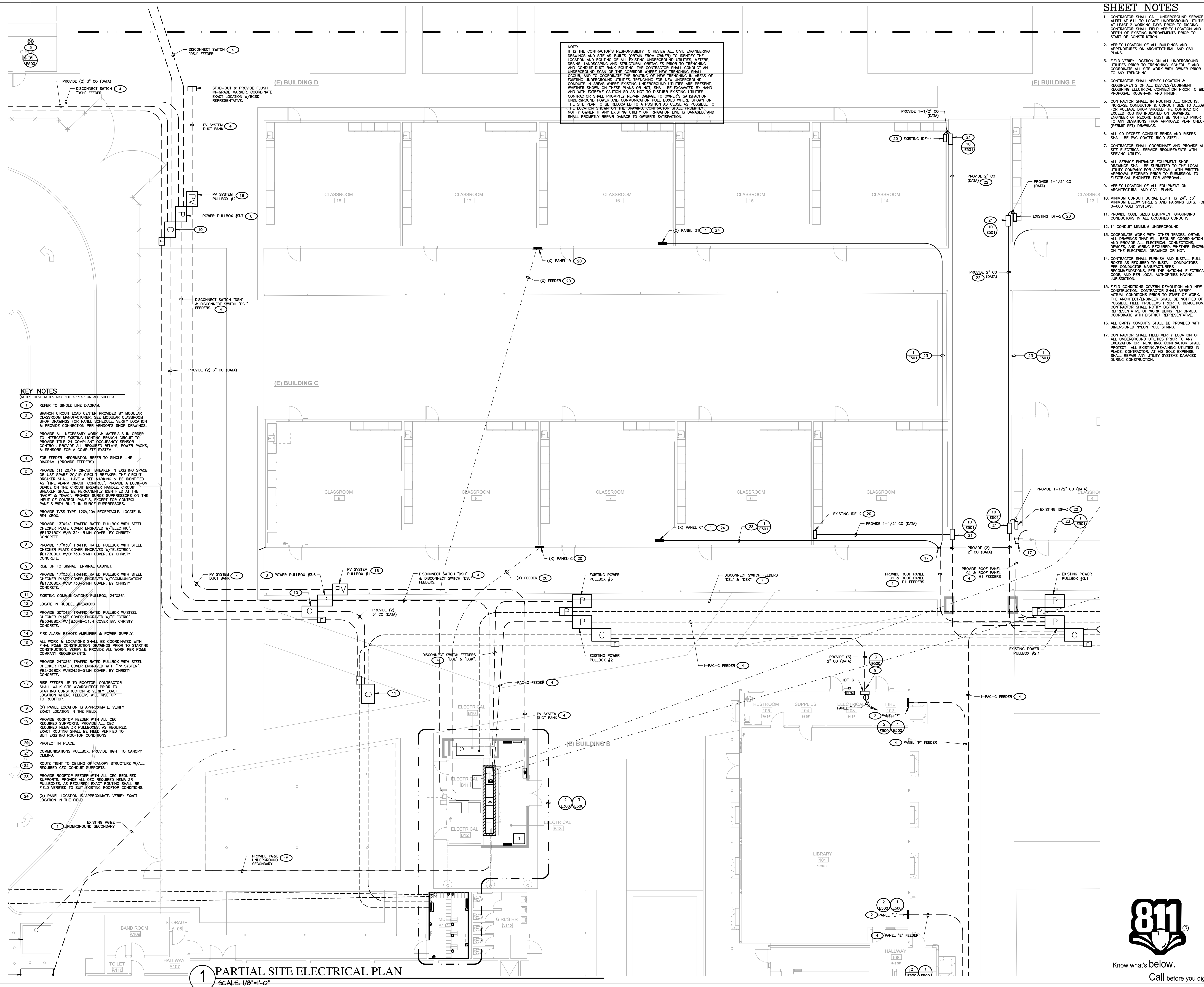
SHEET NUMBER

E300A

CONSTRUCTION DOCUMENTS



1 PARTIAL SITE ELECTRICAL PLAN
SCALE: 1/8"=1'-0"



KEY NOTES

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- 1 REFER TO SINGLE LINE DIAGRAM.
 - 2 BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
 - 3 PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING LIGHTING BRANCH CIRCUIT TO PROVIDE TITLE 24 COMPLIANT OCCUPANCY SENSOR CONTROL. PROVIDE ALL REQUIRED RELAYS, POWER PACKS, & SENSORS FOR A COMPLETE SYSTEM.
 - 4 FOR FEEDER INFORMATION REFER TO SINGLE LINE DIAGRAM. (PROVIDE FEEDERS)
 - 5 PROVIDE (1) 20/1P CIRCUIT BREAKER IN EXISTING SPACE OR USE SPACE 20/1P CIRCUIT BREAKER. THE CIRCUIT BREAKER SHALL HAVE A RED MARKING & BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". PROVIDE A LOCK-ON DEVICE ON THE CIRCUIT BREAKER HANDLE. CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE "FACE" & "BACK". PROVIDE SURGE SUPPRESSORS ON THE INPUT OF CONTROL PANELS, EXCEPT FOR CONTROL PANELS WITH BUILT-IN SURGE SUPPRESSORS.
 - 6 PROVIDE TVSS TYPE 120V/20A RECEPTACLE. LOCATE IN RE4 XBOX.
 - 7 PROVIDE 13"x24" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/"ELECTRIC". #81324BOX W/81324-51JH COVER, BY CHRISTY CONCRETE.
 - 8 PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/"ELECTRIC". #81730BOX W/81730-51JH COVER, BY CHRISTY CONCRETE.
 - 9 RISE UP TO SIGNAL TERMINAL CABINET.
 - 10 PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/"COMMUNICATION". #81730BOX W/81730-51JH COVER, BY CHRISTY CONCRETE.
 - 11 EXISTING COMMUNICATIONS PULLBOX, 24"x36".
 - 12 LOCATE IN HUBBEL #RE4XBOX.
 - 13 PROVIDE 30"x48" TRAFFIC RATED PULLBOX W/STEEL CHECKER PLATE COVER ENGRAVED W/"ELECTRIC". #82436BOX W/82436-51JH COVER, BY CHRISTY CONCRETE.
 - 14 FIRE ALARM REMOTE AMPLIFIER & POWER SUPPLY.
 - 15 ALL WORK & LOCATIONS SHALL BE COORDINATED WITH FINAL POKE CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION. VERIFY & PROVIDE ALL WORK PER POKE COMPANY REQUIREMENTS.
 - 16 PROVIDE 24"x36" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "PV SYSTEM". #82436BOX W/82436-51JH COVER, BY CHRISTY CONCRETE.
 - 17 RISE FEEDER UP TO ROOFTOP. CONTRACTOR SHALL WALK SITE W/ARCHITECT PRIOR TO STARTING CONSTRUCTION & VERIFY EXACT LOCATION WHERE FEEDERS WILL RISE UP TO ROOFTOP.
 - 18 (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.
 - 19 PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEMA 3R PULLBOXES, AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
 - 20 PROTECT IN PLACE.
 - 21 COMMUNICATIONS PULLBOX. PROVIDE TIGHT TO CANOPY CEILING.
 - 22 ROUTE TIGHT TO CEILING OF CANOPY STRUCTURE W/ALL REQUIRED CEC CONDUIT SUPPORTS.
 - 23 PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEMA 3R PULLBOXES, AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
 - 24 (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.

1 PARTIAL SITE ELECTRICAL PLAN
SCALE: 1/8"=1'-0"

SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.
2. VERIFY LOCATION OF ALL BUILDINGS AND APPURTENANCES ON ARCHITECTURAL AND CIVIL PLANS.
3. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
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6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
10. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUIT MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
15. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
17. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

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BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS E.S. MODERNIZATION
815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.	NA
PROJECT NO.	19122.01-38
DRAWN BY:	VPZ
CHKD BY:	DF
ISSUE DATE:	1/29/2020

SHEET TITLE

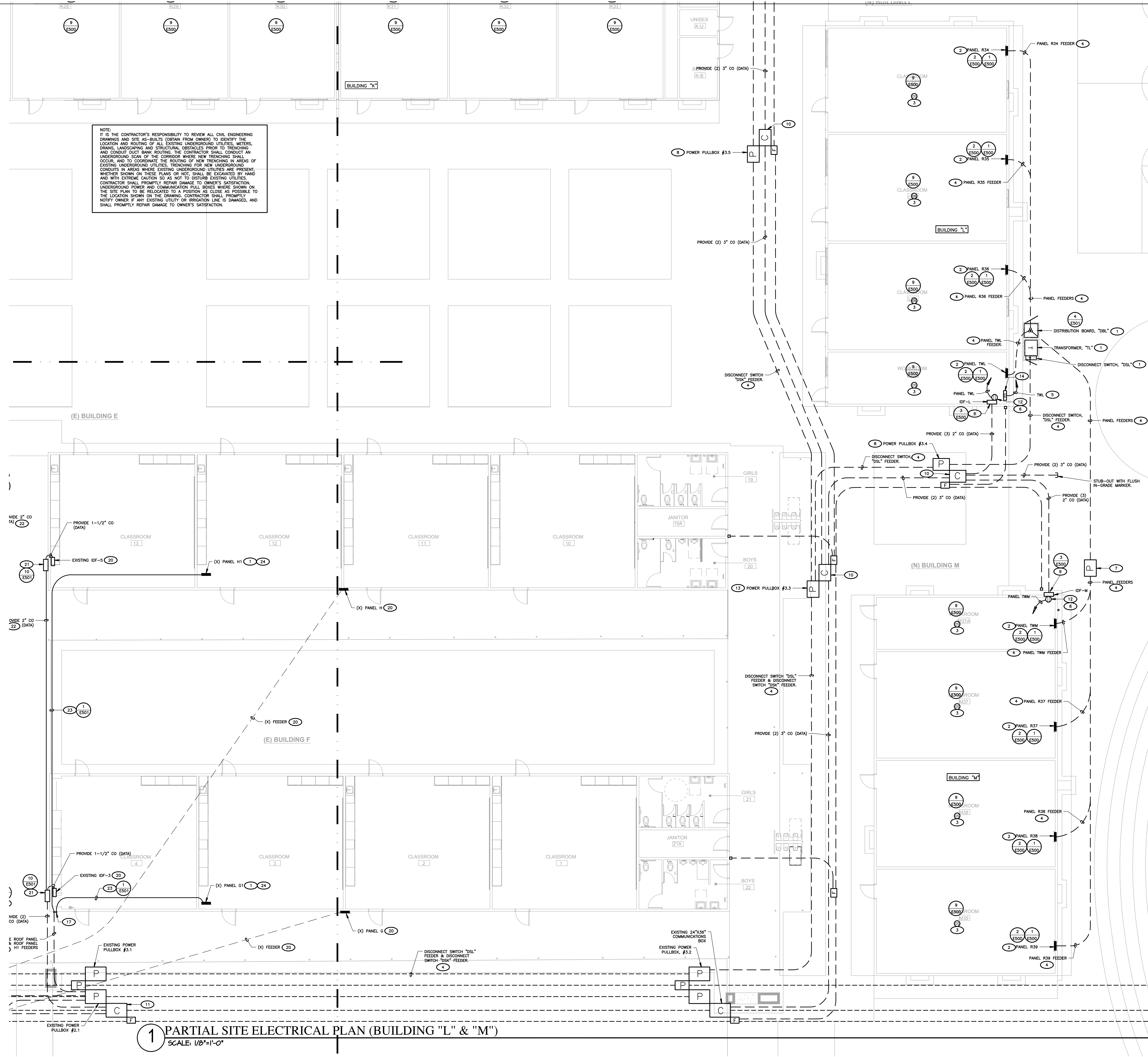
PARTIAL SITE ELECTRICAL PLAN

SHEET NUMBER

E301



CONSTRUCTION DOCUMENTS



SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
2. VERIFY LOCATION OF ALL BUILDINGS AND APPURTENANCES ON ARCHITECTURAL AND CIVIL PLANS.
3. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUIT & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL. WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
10. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS, FOR 0-600 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S AND PROVIDE RECOMMENDATIONS PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
15. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
17. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

KEY NOTES

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
1. REFER TO SINGLE LINE DIAGRAM.
 2. BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM IN SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
 3. PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING LIGHTING BRANCH CIRCUIT TO PROVIDE TITLE 24 COMPLIANT OCCUPANCY SENSOR CONTROL. PROVIDE ALL REQUIRED RELAYS, POWER PACKS, & SENSORS FOR A COMPLETE SYSTEM.
 4. FOR FEEDER INFORMATION REFER TO SINGLE LINE DIAGRAM. (PROVIDE FEEDERS)
 5. PROVIDE (1) 20/1P CIRCUIT BREAKER IN EXISTING SPACE OR USE SPARE 20/1P CIRCUIT BREAKER. THE CIRCUIT BREAKER SHALL HAVE A RED MARKING & BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". PROVIDE A LOCK-ON DEVICES ON THE CIRCUIT BREAKER HANDLE. CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE "FACE" & "BACK" PROVIDE SURGE SUPPRESSORS ON THE INPUT OF CONTROL PANELS, EXCEPT FOR CONTROL PANELS WITH BUILT-IN SURGE SUPPRESSORS.
 6. PROVIDE 125V TYPE 120V/20A RECEPTACLE. LOCATE IN RE4 XBOX.
 7. PROVIDE 13"x24" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/ "ELECTRIC". #B1324BOX W/B1324-51JH COVER, BY CHRISTY CONCRETE.
 8. PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/ "ELECTRIC". #B1730BOX W/B1730-51JH COVER, BY CHRISTY CONCRETE.
 9. RISE UP TO SIGNAL TERMINAL CABINET.
 10. PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/ "COMMUNICATION". #B1730BOX W/B1730-51JH COVER, BY CHRISTY CONCRETE.
 11. EXISTING COMMUNICATIONS PULLBOX, 24"x36".
 12. LOCATE IN HURBEL #REXBOX.
 13. PROVIDE 30"x48" TRAFFIC RATED PULLBOX W/STEEL CHECKER PLATE COVER ENGRAVED W/ "ELECTRIC". #B3048BOX W/#B3048-51JH COVER BY, CHRISTY CONCRETE.
 14. FIRE ALARM REMOTE AMPLIFIER & POWER SUPPLY.
 15. ALL WORK & LOCATIONS SHALL BE COORDINATED WITH FINAL PDM CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION. VERIFY & PROVIDE ALL WORK PER PDM COMPANY REQUIREMENTS.
 16. PROVIDE 24"x36" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "TV SYSTEM". #B2436BOX W/B2436-51JH COVER, BY CHRISTY CONCRETE.
 17. RISE FEEDER UP TO ROOFTOP. CONTRACTOR SHALL WALK SITE W/ARCHITECT PRIOR TO STARTING CONSTRUCTION & VERIFY EXACT LOCATION WHERE FEEDERS WILL RISE UP TO ROOFTOP.
 18. (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.
 19. PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEMA 3R PULLBOXES, AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
 20. PROTECT IN PLACE.
 21. COMMUNICATIONS PULLBOX. PROVIDE TIGHT TO CANOPY CEILING.
 22. ROUTE TIGHT TO CEILING OF CANOPY STRUCTURE W/ALL REQUIRED CEC CONDUIT SUPPORTS.
 23. PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEMA 3R PULLBOXES, AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
 24. (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.

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BAKERSFIELD CITY SCHOOL DISTRICT

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OPSC or OSHPD PROJ. NO.: NA
PROJECT NO.: 19122-01-38
DRAWN BY: VPZ
CHK'D BY: DF
ISSUE DATE: 1/29/2020

SHEET TITLE

PARTIAL SITE ELECTRICAL PLAN BUILDING "L" & "M"

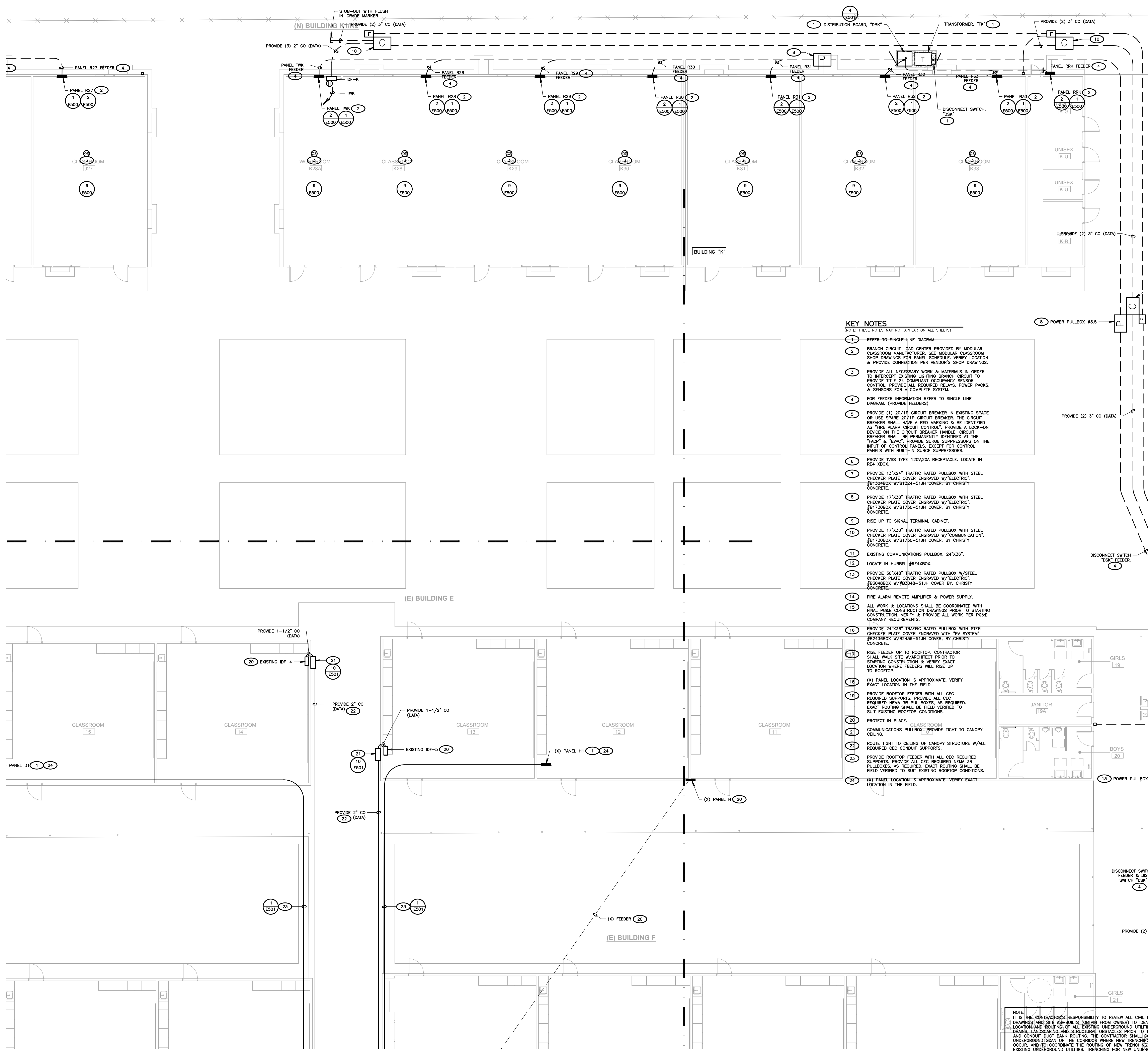
SHEET NUMBER

E302

811 Know what's below. Call before you dig.

CONSTRUCTION DOCUMENTS

1 PARTIAL SITE ELECTRICAL PLAN (BUILDING "L" & "M")
SCALE: 1/8"=1'-0"



SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 3 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
2. VERIFY LOCATION OF ALL BUILDINGS AND UTILITIES ON ARCHITECTURAL AND CIVIL PLANS.
3. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL. FIELD VERIFY AND FINISH.
5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP. SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS, ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
10. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL ALL CONDUCTORS PER CONDUCTOR MANUFACTURERS' RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
15. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED, COORDINATE WITH DISTRICT REPRESENTATIVE.
16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
17. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY TRENCHING OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEM DAMAGED DURING CONSTRUCTION.

KEY NOTES

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
1. REFER TO SINGLE LINE DIAGRAM.
 2. BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER; SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE, VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
 3. PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING LIGHTING BRANCH CIRCUIT TO PROVIDE TITLE 24 COMPLIANT OCCUPANCY SENSOR CONTROL, PROVIDE ALL REQUIRED RELAYS, POWER PACKS, & SENSORS FOR A COMPLETE SYSTEM.
 4. FOR FEEDER INFORMATION REFER TO SINGLE LINE DIAGRAM. (PROVIDE FEEDERS)
 5. PROVIDE (1) 20/1P CIRCUIT BREAKER IN EXISTING SPACE OR USE SPARE 20/1P CIRCUIT BREAKER. THE CIRCUIT BREAKER SHALL HAVE A RED MARKING & BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". PROVIDE A LOCK-ON DEVICE ON THE CIRCUIT BREAKER HANDLE. CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE TAGS & TRACT. PROVIDE SURGE SUPPRESSORS ON THE INPUT OF CONTROL PANELS, EXCEPT FOR CONTROL PANELS WITH BUILT-IN SURGE SUPPRESSORS.
 6. PROVIDE TVSS TYPE 120V/20A RECEPTACLE. LOCATE IN RE4 XBOX.
 7. PROVIDE 13"x24" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/"ELECTRIC". #81324BOX W/81324-51JH COVER, BY CHRISTY CONCRETE.
 8. PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/"ELECTRIC". #81730BOX W/81730-51JH COVER, BY CHRISTY CONCRETE.
 9. RISE UP TO SIGNAL TERMINAL CABINET.
 10. PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/"COMMUNICATION". #81730BOX W/81730-51JH COVER, BY CHRISTY CONCRETE.
 11. EXISTING COMMUNICATIONS PULLBOX, 24"x36".
 12. LOCATE IN HUBBEL #RE4XBOX.
 13. PROVIDE 30"x48" TRAFFIC RATED PULLBOX W/STEEL CHECKER PLATE COVER ENGRAVED W/"ELECTRIC". #83048BOX W/83048-51JH COVER BY CHRISTY CONCRETE.
 14. FIRE ALARM REMOTE AMPLIFIER & POWER SUPPLY.
 15. ALL WORK & LOCATIONS SHALL BE COORDINATED WITH FINAL POSE CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION. VERIFY & PROVIDE ALL WORK PER POSE COMPANY REQUIREMENTS.
 16. PROVIDE 24"x36" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "TV SYSTEM". #82436BOX W/82436-51JH COVER, BY CHRISTY CONCRETE.
 17. RISE FEEDER UP TO ROOFTOP. CONTRACTOR SHALL WALK SITE W/ARCHITECT PRIOR TO STARTING CONSTRUCTION & VERIFY EXACT LOCATION WHERE FEEDERS WILL RISE UP TO ROOFTOP.
 18. (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.
 19. PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEMA 3R PULLBOXES, AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
 20. PROTECT IN PLACE. CLASSROOM.
 21. COMMUNICATIONS PULLBOX; PROVIDE TIGHT TO CANOPY CEILING.
 22. ROUTE TIGHT TO CEILING OF CANOPY STRUCTURE W/ALL REQUIRED CEC CONDUIT SUPPORTS.
 23. PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEMA 3R PULLBOXES, AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
 24. (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.

NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CIVIL ENGINEERING DRAWINGS AND SITE AS-BUILTS (OBTAIN FROM OWNER) TO IDENTIFY THE LOCATION AND ROUTING OF ALL EXISTING UNDERGROUND UTILITIES, METERS, DRAINS, LANDSCAPING AND STRUCTURAL OBSTACLES PRIOR TO TRENCHING AND CONDUIT DUCT BANK ROUTING. THE CONTRACTOR SHALL CONTACT AN UNDERGROUND SCAN OF THE CORRIDOR WHERE NEW TRENCHING SHALL OCCUR, AND TO COORDINATE THE ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND UTILITIES. TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION. UNDERGROUND POWER AND COMMUNICATION PULL BOXES WHERE SHOWN ON THE SITE PLAN TO BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWING. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER IF ANY EXISTING UTILITY OR IRRIGATION LINE IS DAMAGED, AND SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS E.S. MODERNIZATION
815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO:	NA
PROJECT NO:	19122-01-38
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	1/29/2020

SHEET TITLE

PARTIAL SITE ELECTRICAL PLAN BUILDING "K"

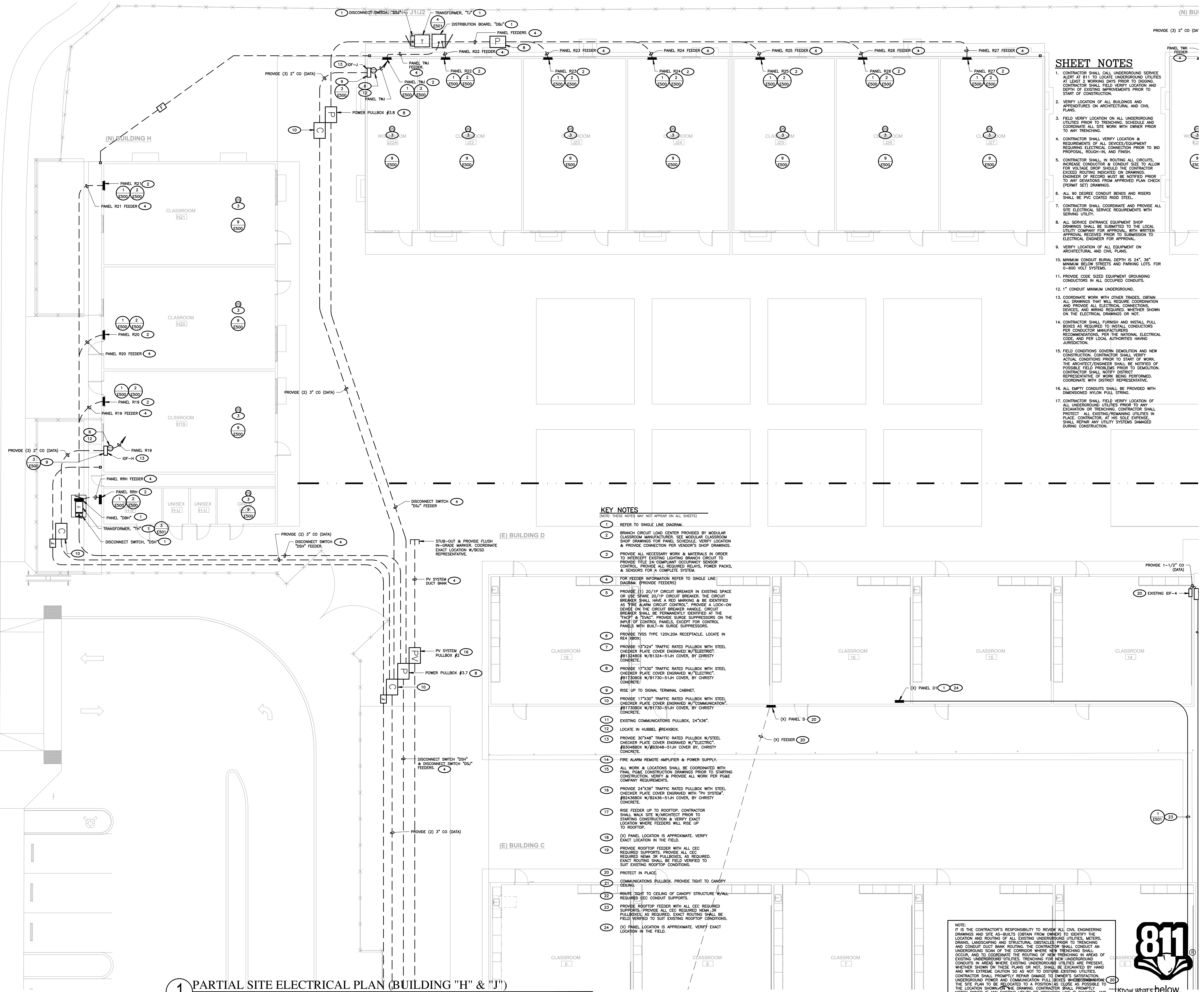
SHEET NUMBER

E303

811 Know what's below. Call before you dig.

1 PARTIAL SITE ELECTRICAL PLAN (BUILDING "K")
SCALE: 1/8"=1'-0"

CONSTRUCTION DOCUMENTS



SHEET NOTES

- CONTRACTOR SHALL CALL UNDERGROUND SERVICE AGENCY AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
- VERIFY LOCATION OF ALL BUILDINGS AND APPURTENANCES ON ARCHITECTURAL AND CIVIL PLANS.
- FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
- CONTRACTOR SHALL IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIBBON STEEL.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL. WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
- VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-500 VOLT SYSTEMS.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 1" CONDUIT MINIMUM UNDERGROUND.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

KEY NOTES

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- REFER TO SINGLE LINE DIAGRAM.
 - BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
 - PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING LIGHTING BRANCH CIRCUIT TO PROVIDE TITLE 24 COMPLIANT OCCUPANCY SENSOR CONTROL. PROVIDE ALL REQUIRED RELEASERS, POWER PACKS, & SENSORS FOR A COMPLETE SYSTEM.
 - FOR FEEDER INFORMATION REFER TO SINGLE LINE DIAGRAM. (PROVIDE FEEDERS)
 - PROVIDE (1) 20/1P CIRCUIT BREAKER IN EXISTING SPACE OR USE 25MVA 20/1P CIRCUIT BREAKER. THE CIRCUIT BREAKER SHALL HAVE A RED MARKING & BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". PROVIDE A LOCK-ON DEVICE ON THE CIRCUIT BREAKER HANDLE. CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE "FACP" & "E-WAC". PROVIDE SURGE SUPPRESSORS ON THE INPUT OF CONTROL PANELS, EXCEPT FOR CONTROL PANELS WITH BUILT-IN SURGE SUPPRESSORS.
 - PROVIDE TYSS TYPE 120V/20A RECEPTACLE. LOCATE IN RE4 XBOX.
 - PROVIDE 18"x24" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/ELECTRIC. #813348BOX W/81730-51JH COVER, BY CHRISTY CONCRETE.
 - PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/ELECTRIC. #81730BOX W/81730-51JH COVER, BY CHRISTY CONCRETE.
 - RISE UP TO SIGNAL TERMINAL CABINET.
 - PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/COMMUNICATION. #81730BOX W/81730-51JH COVER, BY CHRISTY CONCRETE.
 - EXISTING COMMUNICATIONS PULLBOX, 24"x36".
 - LOCATE IN HUBBELL #RE4XBOX.
 - PROVIDE 30"x48" TRAFFIC RATED PULLBOX W/STEEL CHECKER PLATE COVER ENGRAVED W/ELECTRIC. #83048BOX W/83048-51JH COVER, BY CHRISTY CONCRETE.
 - FIRE ALARM REMOTE AMPLIFIER & POWER SUPPLY.
 - ALL WORK & LOCATIONS SHALL BE COORDINATED WITH FINAL PIONEER CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION. VERIFY & PROVIDE ALL WORK PER PG&E COMPANY REQUIREMENTS.
 - PROVIDE 24"x36" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "PV SYSTEM". #82436BOX W/82436-51JH COVER, BY CHRISTY CONCRETE.
 - RISE FEEDER UP TO ROOFTOP. CONTRACTOR SHALL WALK SITE W/ARCHITECT PRIOR TO STARTING CONSTRUCTION & VERIFY EXACT LOCATION WHERE FEEDERS WILL RISE UP TO ROOFTOP.
 - (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.
 - PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEMA 3R PULLBOXES, AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
 - PROTECT IN PLACE.
 - COMMUNICATIONS PULLBOX. PROVIDE TIGHT TO CANOPY.
 - ROUTE TIGHT TO CEILING OF CANOPY STRUCTURE. W/ALL REQUIRED CEC CONDUIT SUPPORTS.
 - PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEMA 3R PULLBOXES, AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
 - (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.

NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CIVIL ENGINEERING DRAWINGS AND SITE AS-BUILTS (OBTAIN FROM OWNER) TO IDENTIFY THE LOCATION AND ROUTING OF ALL EXISTING UNDERGROUND UTILITIES, METERS, DRAINS, LANDSCAPING AND STRUCTURAL OBSTACLES PRIOR TO TRENCHING AND CONDUIT BANK ROUTING. THE CONTRACTOR SHALL CONDUCT AN UNDERGROUND SCAN OF THE CORRIDOR WHERE NEW TRENCHING SHALL OCCUR, AND TO COORDINATE THE ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND UTILITIES. TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION. UNDERGROUND POWER AND COMMUNICATION PULL BOXES WHERE OBSERVED ON THE SITE PLAN TO BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWING. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER IF ANY EXISTING UTILITY OR IRRIGATION LINE IS DAMAGED, AND SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.



1 PARTIAL SITE ELECTRICAL PLAN (BUILDING "H" & "J")
SCALE: 1/8"=1'-0"

AGENCY INFORMATION:

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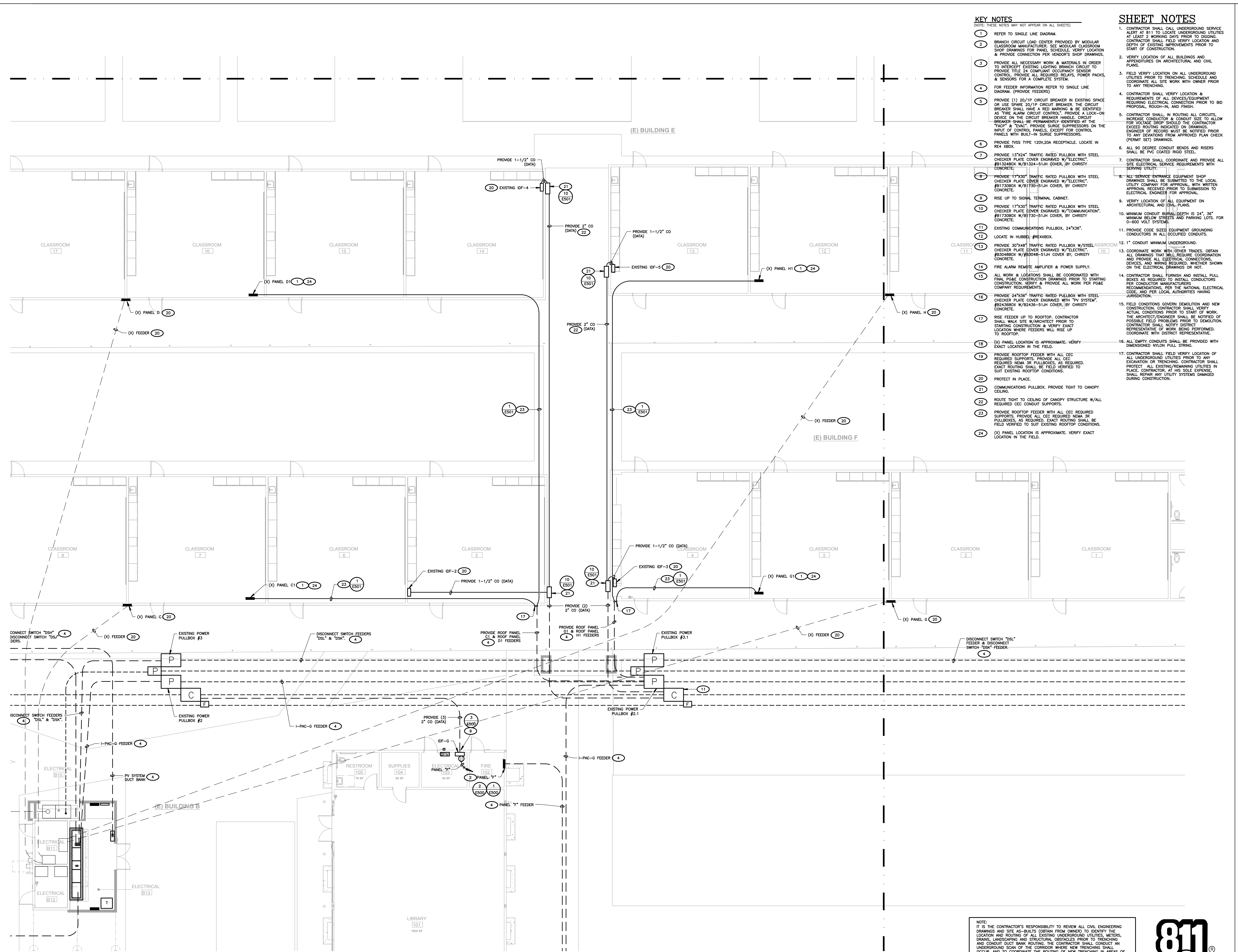
BESSIE OWENS E.S. MODERNIZATION
815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.: NA
PROJECT NO.: 19122-01-38
DRAWN BY: VPZ
CHK'D BY: DF
ISSUE DATE: 1/29/2020
SHEET TITLE

PARTIAL SITE ELECTRICAL PLAN BUILDING "H" & "J"

SHEET NUMBER
E304

CONSTRUCTION DOCUMENTS



KEY NOTES

- NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS
- REFER TO SINGLE LINE DIAGRAM.
 - BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
 - PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO INTERFERE EXISTING LIGHTING BRANCH CIRCUIT TO PROVIDE TITLE 24 COMPLIANT OCCUPANCY SENSOR CONTROL. PROVIDE ALL REQUIRED RELAYS, POWER PACKS, & SENSORS FOR A COMPLETE SYSTEM.
 - FOR FEEDER INFORMATION REFER TO SINGLE LINE DIAGRAM. (PROVIDE FEEDERS)
 - PROVIDE (1) 20"x14" CIRCUIT BREAKER IN EXISTING SPACE OR USE SPARE 20"x14" CIRCUIT BREAKER. THE CIRCUIT BREAKER SHALL HAVE A RED MARKING & BE IDENTIFIED AS "THE ALARM CIRCUIT BREAKER". PROVIDE A LOCK-ON DEVICE ON THE CIRCUIT BREAKER HANDLE. CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE "PACP" & "EVAC". PROVIDE SURGE SUPPRESSORS ON THE INPUT OF CONTROL PANELS, EXCEPT FOR CONTROL PANELS WITH BUILT-IN SURGE SUPPRESSORS.
 - PROVIDE TVSS TYPE 120V/20A RECEPTACLE. LOCATE IN RE4 XBOX.
 - PROVIDE 13"x24" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/ "ELECTRIC". #8132480X W/81324-51.H COVER, BY CHRISTY CONCRETE.
 - PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/ "ELECTRIC". #8173080X W/81730-51.H COVER, BY CHRISTY CONCRETE.
 - RISE UP TO SIGNAL TERMINAL CABINET.
 - PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/ "COMMUNICATION". #8173080X W/81730-51.H COVER, BY CHRISTY CONCRETE.
 - EXISTING COMMUNICATIONS PULLBOX, 24"x36". LOCATE IN HUBBLE #RE4XBOX.
 - PROVIDE 30"x48" TRAFFIC RATED PULLBOX W/STEEL CHECKER PLATE COVER ENGRAVED W/ "ELECTRIC". #8173080X W/81730-51.H COVER, BY CHRISTY CONCRETE.
 - FIRE ALARM REMOTE AMPLIFIER & POWER SUPPLY.
 - ALL WORK & LOCATIONS SHALL BE COORDINATED WITH FINAL POSE CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION. VERIFY & PROVIDE ALL WORK PER POSE COMPANY REQUIREMENTS.
 - PROVIDE 24"x36" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "TV SYSTEM". #8243680X W/82436-51.H COVER, BY CHRISTY CONCRETE.
 - RISE FEEDER UP TO ROOFTOP. CONTRACTOR SHALL WALK SITE W/ARCHITECT PRIOR TO STARTING CONSTRUCTION & VERIFY EXACT LOCATION WHERE FEEDERS WILL RISE UP TO ROOFTOP.
 - (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.
 - PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEMA 3R PULLBOXES, AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
 - PROTECT IN PLACE.
 - COMMUNICATIONS PULLBOX. PROVIDE TIGHT TO CANOPY.
 - ROUTE TIGHT TO CEILING OF CANOPY STRUCTURE W/ALL REQUIRED CEC CONDUIT SUPPORTS.
 - PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEMA 3R PULLBOXES, AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
 - (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.

SHEET NOTES

- CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
- VERIFY LOCATION OF ALL BUILDINGS AND APPURTENANCES ON ARCHITECTURAL AND CIVIL PLANS.
- FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROOFTOP, AND FINISH.
- CONTRACTOR SHALL BE ROUTING ALL CIRCUITS. INCREASE CONDUIT & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH "SERVING UTILITY".
- ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL. NO WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
- VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- MINIMUM CONDUIT BURIAL DEPTH IS 24". 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 12" CONDUIT MINIMUM UNDERGROUND.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS. PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- FIELD CONDITIONS CONCERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

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BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS E.S. MODERNIZATION
 815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.	NA
PROJECT NO.	19122.01-38
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	1/29/2020

SHEET TITLE

PARTIAL SITE ELECTRICAL PLAN

SHEET NUMBER

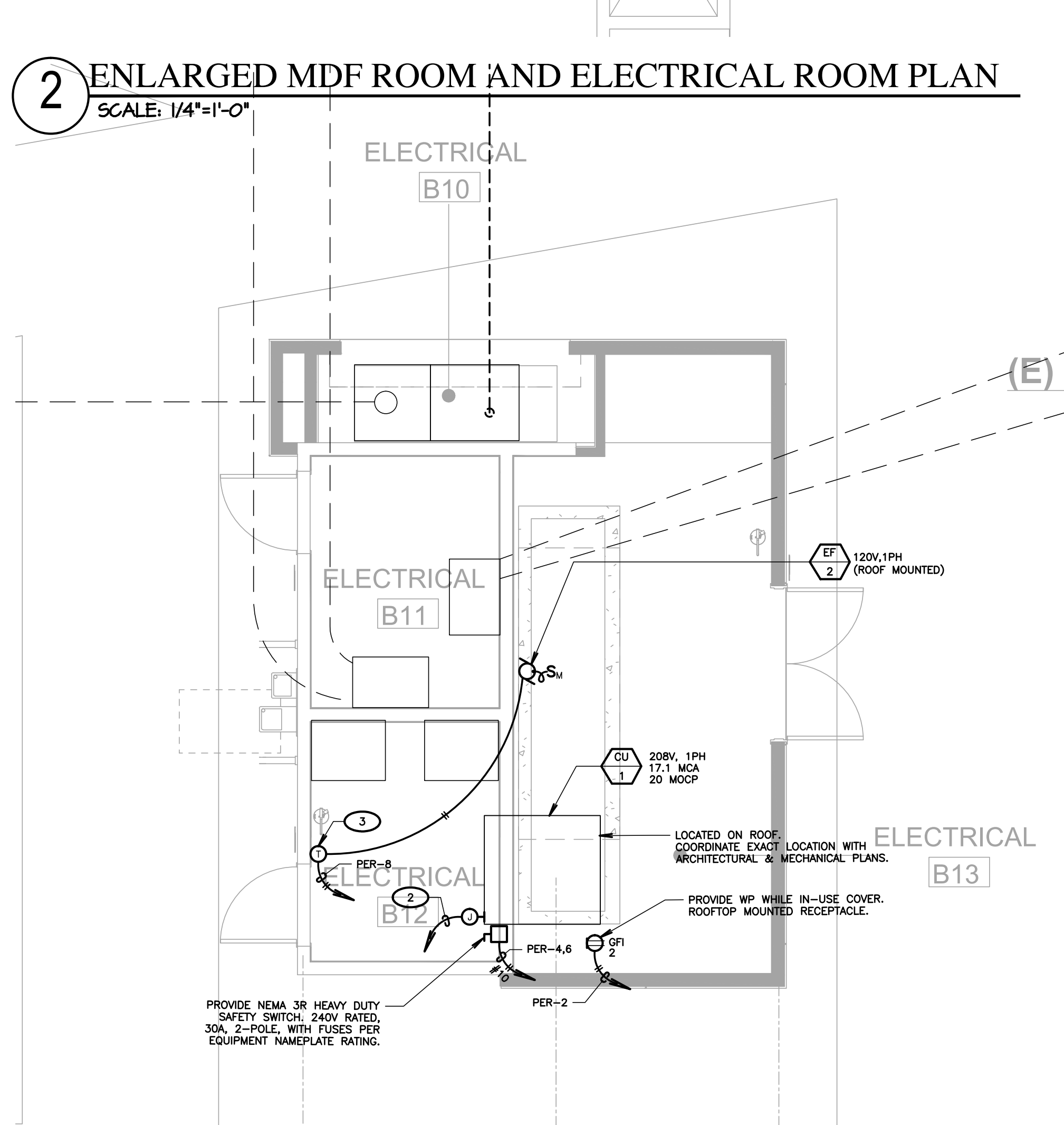
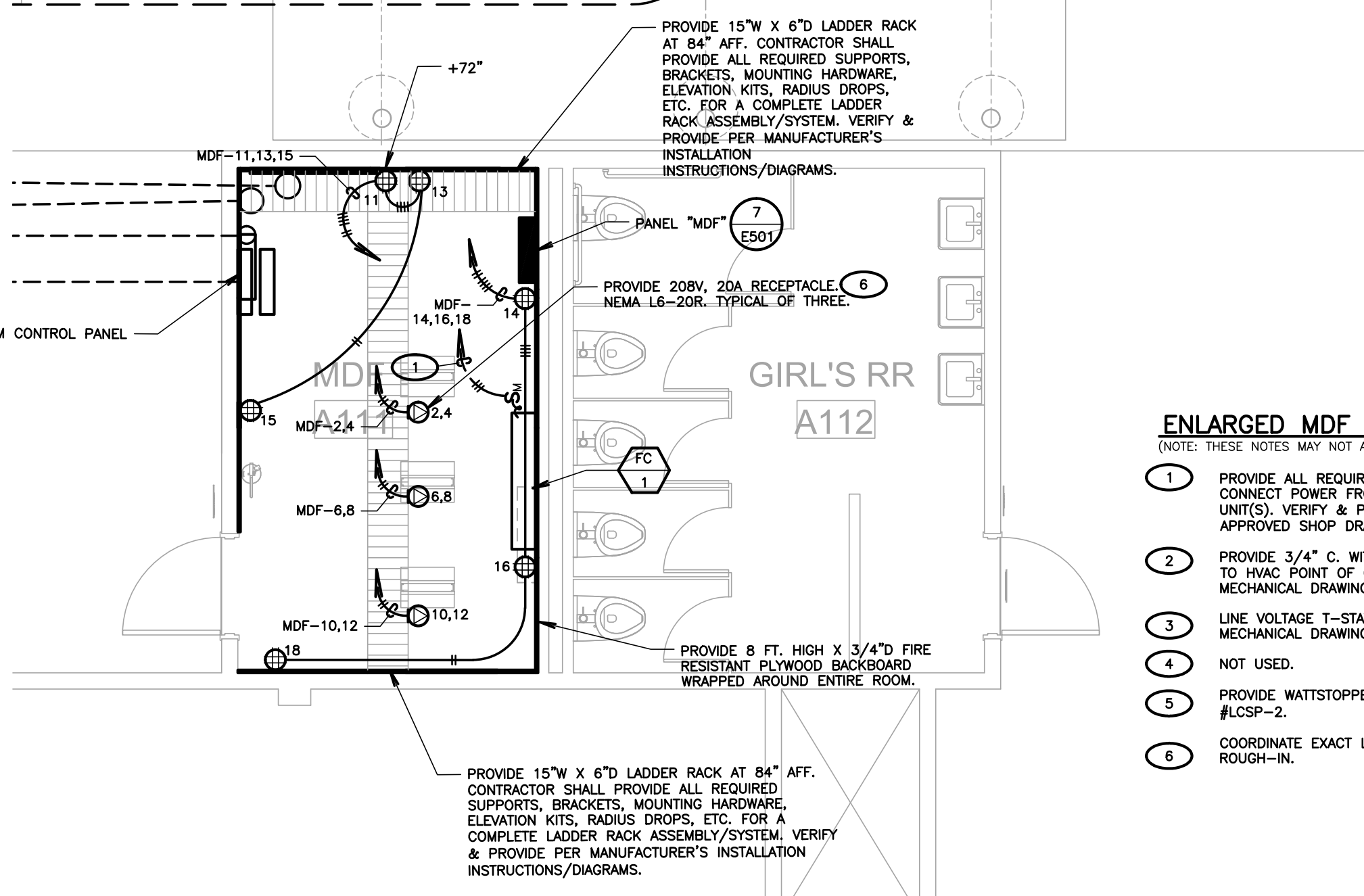
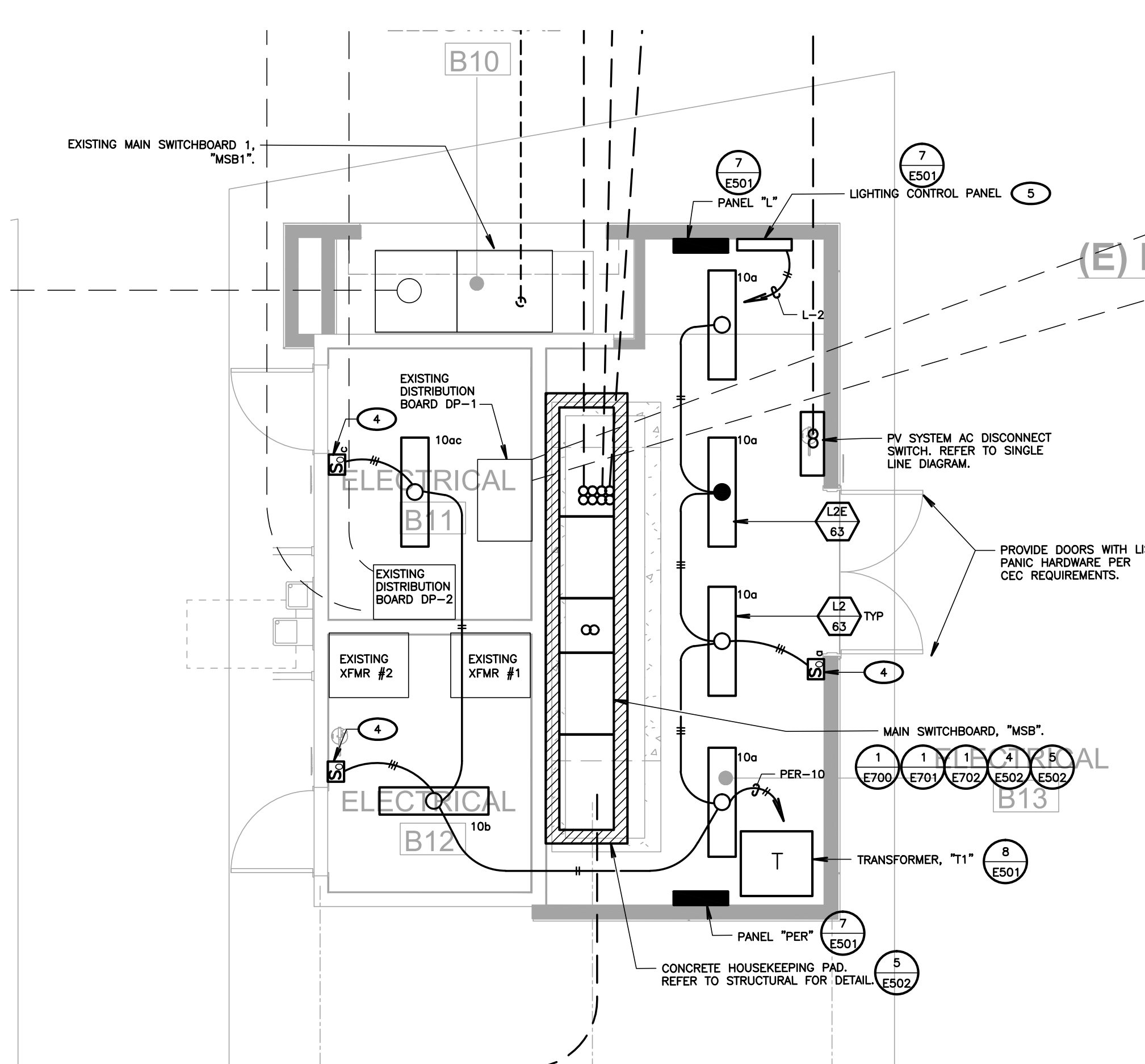
E305

1 PARTIAL SITE ELECTRICAL PLAN
 SCALE: 1/8"=1'-0"

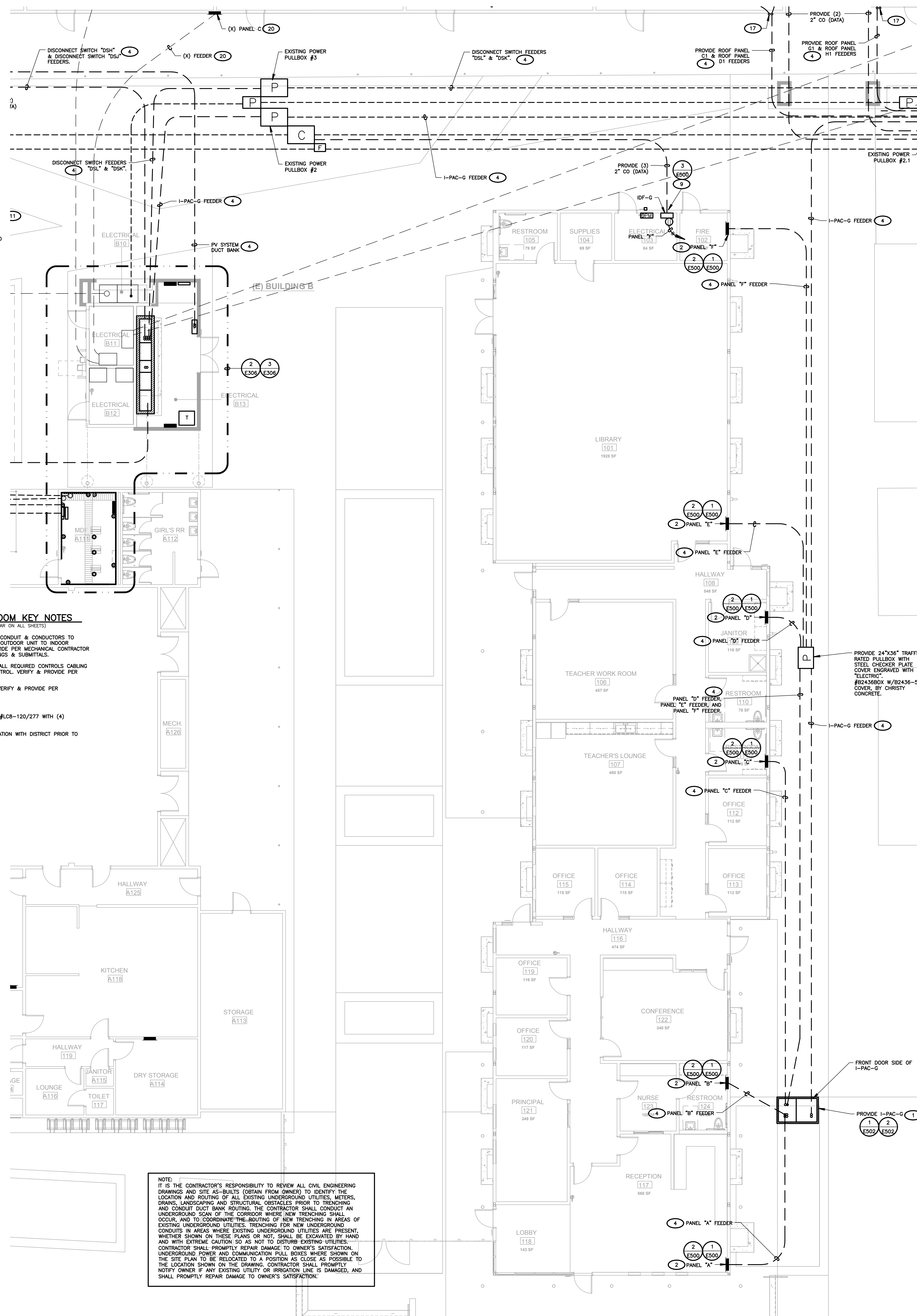
NOTE:
 IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CIVIL ENGINEERING DRAWINGS AND SITE AS-BUILTS (OBTAIN FROM OWNER) TO IDENTIFY THE LOCATION AND ROUTING OF ALL EXISTING UNDERGROUND UTILITIES, METERS, DRAINS, LANDSCAPING AND STRUCTURAL OBSTACLES PRIOR TO TRENCHING AND CONDUIT DUCT BANK ROUTING. THE CONTRACTOR SHALL CONDUCT AN UNDERGROUND SCAN OF THE CORRIDOR WHERE NEW TRENCHING SHALL OCCUR, AND TO COORDINATE THE ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND UTILITIES. TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION. UNDERGROUND POWER AND COMMUNICATIONS DUCT BOXES WHERE SHOWN ON THE SITE PLAN TO BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWING. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER IF ANY EXISTING UTILITY OR IRRIGATION LINE IS DAMAGED, AND SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.



CONSTRUCTION DOCUMENTS



3 MECHANICAL EQUIPMENT POWER PLAN
SCALE: 1/4"=1'-0"



1 PARTIAL SITE ELECTRICAL PLAN (BUILDING G ADMINISTRATION)
SCALE: 1/8"=1'-0"

SHEET NOTES

- CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
- VERIFY LOCATION OF ALL BUILDINGS AND APPURTENANCES ON ARCHITECTURAL AND CIVIL PLANS.
- FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL. ROUGH-IN AND FINISH.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
- VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS, FOR 0-600 VOLT SYSTEMS.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 1" CONDUIT MINIMUM UNDERGROUND.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED, COORDINATE WITH DISTRICT REPRESENTATIVE.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON FULL STRING.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR AT HIS SOLE EXPENSE SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

KEY NOTES
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

- REFER TO SINGLE LINE DIAGRAM.
- BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE, VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
- PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING LIGHTING BRANCH CIRCUIT TO PROVIDE TITLE 24 COMPLIANT OCCUPANCY SENSOR CONTROL. PROVIDE ALL REQUIRED RELAYS, POWER PACKS, & SENSORS FOR A COMPLETE SYSTEM.
- FOR FEEDER INFORMATION REFER TO SINGLE LINE DIAGRAM. (PROVIDE FEEDERS)
- PROVIDE (1) 20/1P CIRCUIT BREAKER IN EXISTING SPACE OR USE SPARE 20/1P CIRCUIT BREAKER. THE CIRCUIT BREAKER SHALL HAVE A RED MARKING & BE IDENTIFIED AS "FIRE ALARM CONTROL". PROVIDE A LOCK-ON DEVICE ON THE CIRCUIT BREAKER HANDLE. CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE "FACP" & "EMAC". PROVIDE SURGE SUPPRESSORS ON THE INPUT OF CONTROL PANELS, EXCEPT FOR CONTROL PANELS WITH BUILT-IN SURGE SUPPRESSORS.
- PROVIDE TYPE TYP 120V/20A RECEPTACLE LOCATE IN REA AREA.
- PROVIDE 17"x24" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/ "ELECTRIC", #B1348BOX W/B1324-51JH COVER, BY CHRISITY CONCRETE.
- PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/ "ELECTRIC", #B1730BOX W/B1730-51JH COVER, BY CHRISITY CONCRETE.
- RISE UP TO SIGNAL TERMINAL CABINET.
- PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/ "COMMUNICATION", #B1730BOX W/B1730-51JH COVER, BY CHRISITY CONCRETE.
- EXISTING COMMUNICATIONS PULLBOX, 24"x36".
- LOCATE IN HUBBEL #RE4XBOX.
- PROVIDE 30"x48" TRAFFIC RATED PULLBOX W/STEEL CHECKER PLATE COVER ENGRAVED W/ "ELECTRIC", #B3048BOX W/B3048-51JH COVER BY, CHRISITY CONCRETE.
- FIRE ALARM REMOTE AMPLIFIER & POWER SUPPLY.
- ALL WORK & LOCATIONS SHALL BE COORDINATED WITH FINAL PG&E CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION. VERIFY & PROVIDE ALL WORK PER PG&E COMPANY REQUIREMENTS.
- PROVIDE 24"x36" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "TV SYSTEM", #B2436BOX W/B2436-51JH COVER, BY CHRISITY CONCRETE.
- RISE FEEDER UP TO ROOFTOP. CONTRACTOR SHALL WALK SITE W/ARCHITECT PRIOR TO STARTING CONSTRUCTION & VERIFY EXACT LOCATION WHERE FEEDERS WILL RISE UP TO ROOFTOP.
- (X) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.
- PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEW 3R PULLBOXES AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
- PROTECT IN PLACE.
- COMMUNICATIONS PULLBOX. PROVIDE TIGHT TO CANOPY CEILING.
- ROUTE TIGHT TO CEILING OF CANOPY STRUCTURE W/ALL REQUIRED CEC CONDUIT SUPPORTS.
- PROVIDE ROOFTOP FEEDER WITH ALL CEC REQUIRED SUPPORTS. PROVIDE ALL CEC REQUIRED NEW 3R PULLBOXES AS REQUIRED. EXACT ROUTING SHALL BE FIELD VERIFIED TO SUIT EXISTING ROOFTOP CONDITIONS.
- (O) PANEL LOCATION IS APPROXIMATE. VERIFY EXACT LOCATION IN THE FIELD.

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BAKERSFIELD CITY SCHOOL DISTRICT

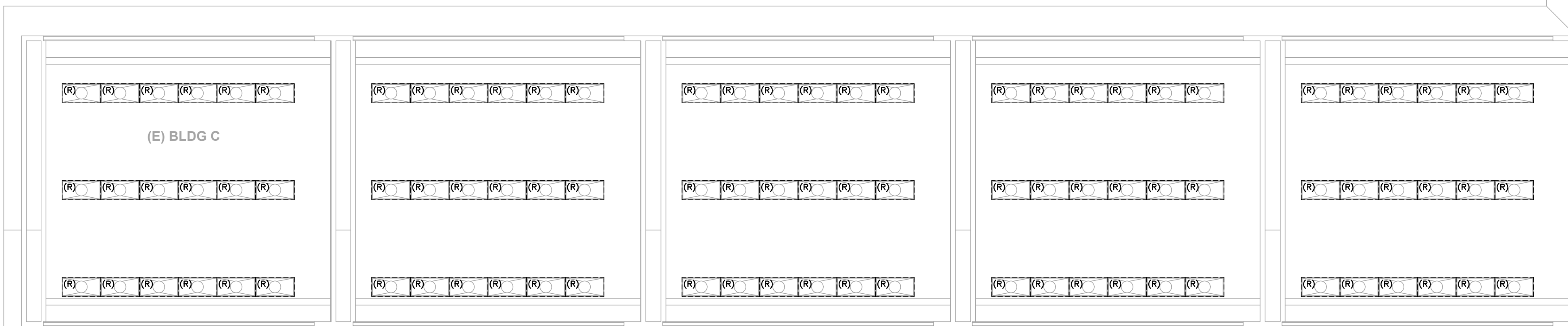
BESSIE OWENS E.S. MODERNIZATION
815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.: NA
PROJECT NO.: 19122.01-38
DRAWN BY: VPZ
CHK'D BY: DF
ISSUE DATE: 1/29/2020
SHEET TITLE: PARTIAL SITE ELECTRICAL PLAN (BUILDING G ADMINISTRATION)

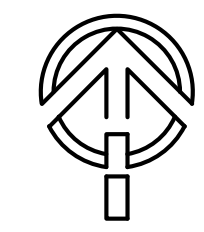
SHEET NUMBER: E306

811 Know what's below. Call before you dig.

CONSTRUCTION DOCUMENTS

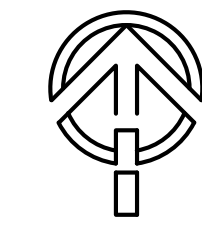
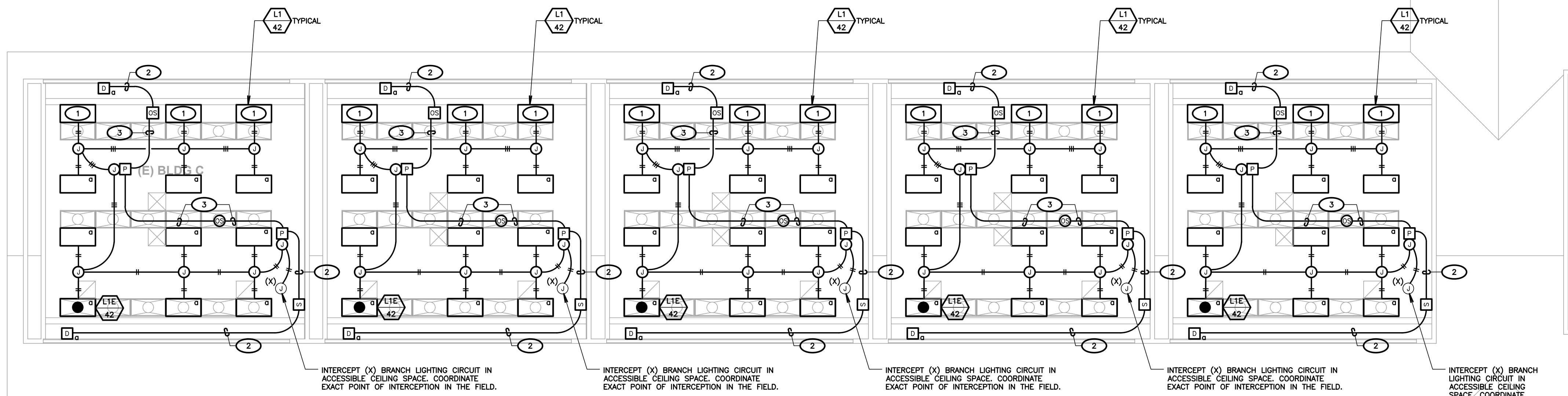


DEMOLITION LEGEND	
(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE, RECONNECT NEW DEVICE IN SAME LOCATION TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.



1 BUILDING C LIGHTING DEMOLITION PLAN
SCALE: 1/8"=1'-0"

NORTH



2 BUILDING C LIGHTING PLAN
SCALE: 1/8"=1'-0"

NORTH

- KEYNOTES**
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- LIGHT FIXTURE LOCATED IN DAYLIT ZONE SHALL BE CONTROLLED BY SENSOR W/O/DAYLIGHT CONTROL.
 - PROVIDE 1" C. EMT TO ACCESSIBLE CEILING SPACE W/PLASTIC BUSHING(S). PROVIDE ALL REQUIRED PRE-TERMINATED LIGHT CATS CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
 - PROVIDE PRE-TERMINATED LIGHT CATS CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
 - INTERCEPT EXISTING RESTROOM BRANCH LIGHTING CIRCUIT HOT & NEUTRAL.
 - PROVIDE CEILING MOUNT OCCUPANCY SENSOR, SENSOR SWITCH, #CMR-POT-9. SEE TIME DELAY TO 30 MINUTES. PROGRAM FOR AUTO-ON.
 - PROVIDE WALL SWITCH OCCUPANCY SENSOR, SENSOR SWITCH, #WSX-POT-WH.
 - PROVIDE 7-DAY TIMELOCK FOR BATHROOM EXHAUST FAN CONTROL. COORDINATE ALL WORK & LOCATIONS WITH MECHANICAL.
 - UP TO EXHAUST FAN ON ROOF. SEE SHEET E801 FOR CONTINUATION.

- LIGHTING LEGEND**
- [D] PROVIDE FLUHT, #R50M-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - [E] PROVIDE FLUHT, #R50M-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TEACHERS STATION. VERIFY EXACT LOCATION W/ARCH.
 - [OC] OCCUPANCY SENSOR WITH DAYLIGHT CONTROL. CEILING MOUNTED. PROVIDE FLUHT, #CMRPT-10-RUB-ACCK. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - [O] OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE FLUHT, #CMRPT-10-RUB. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - [P] PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE FLUHT, #PP16-D-EFP.

LIGHTING SHEET NOTES

- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL. PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH INSTALLATION.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED.
- ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- MANTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
- ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
- GRAPHICS / SIGNAGE: VERIFY & PROVIDE CONNECTION TO SIGNAGE PER VENDOR'S SHOP DRAWINGS. VERIFY SIGN LOCATION, MOUNTING ELEVATION AND BRANCH CIRCUIT REQUIREMENTS PRIOR TO ROUGH-IN.
- ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.
- PROVIDE ALL REQUIRED DEVICE COVER PLATES.

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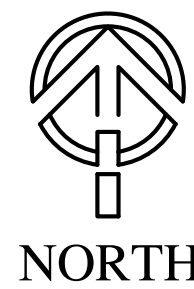
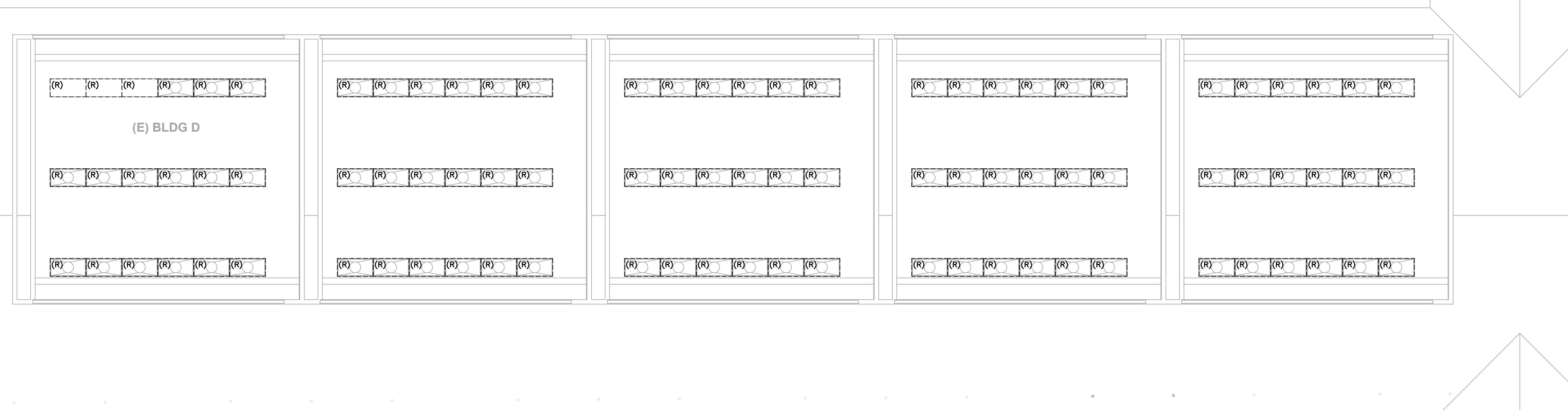
OPSC or OSHPD PROJ. NO:	NA
PROJECT NO:	19122.01-38
DRAWN BY:	VPZ
CHKD BY:	DF
ISSUE DATE:	1/29/2020
SHEET TITLE	

BUILDING C LIGHTING DEMOLITION/LIGHTING PLAN

SHEET NUMBER

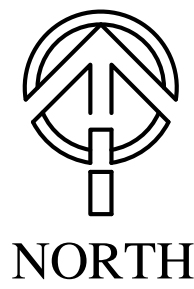
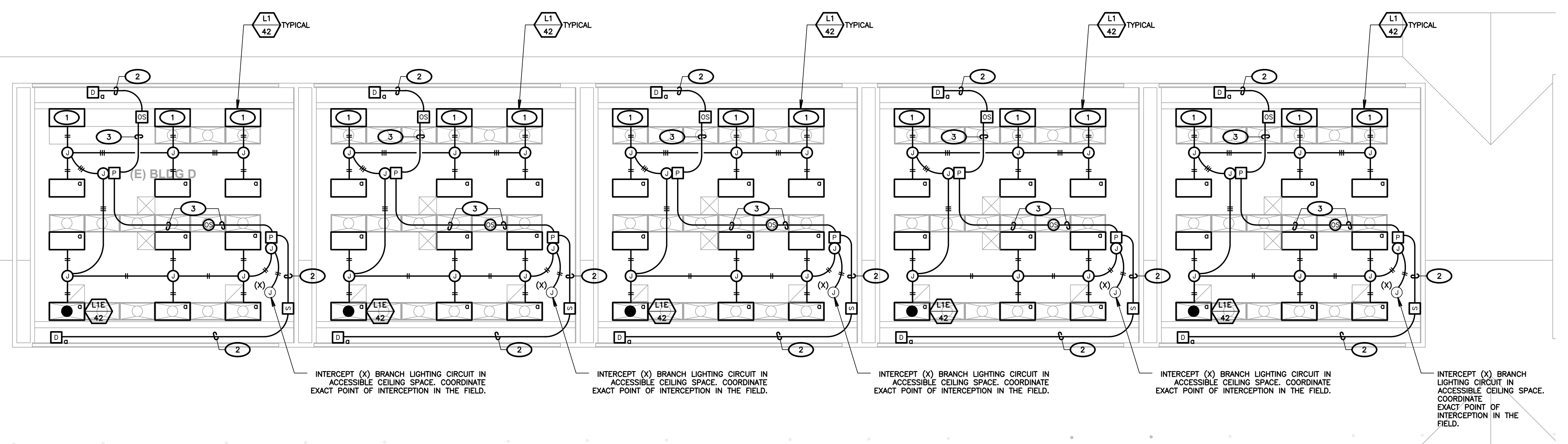
E401

CONSTRUCTION DOCUMENTS



1 BUILDING D LIGHTING DEMOLITION PLAN
SCALE: 1/8"=1'-0"

DEMOLITION LEGEND	
(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE IF DISTURBED DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICES IN SAME LOCATION. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICES IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.



2 BUILDING D LIGHTING PLAN
SCALE: 1/8"=1'-0"

- KEYNOTES**
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- LIGHT FIXTURE LOCATED IN DAYLIT ZONE SHALL BE CONTROLLED BY SENSOR W/DAYLIGHT CONTROL.
 - PROVIDE 1" C. EMT TO ACCESSIBLE CEILING SPACE W/PLASTIC BUSHING(S). PROVIDE ALL REQUIRED PRE-TERMINATED LIGHT CATS CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
 - PROVIDE PRE-TERMINATED LIGHT CATS CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
 - INTERCEPT EXISTING RESTROOM BRANCH LIGHTING CIRCUIT. HOT & NEUTRAL.
 - PROVIDE CEILING MOUNT OCCUPANCY SENSOR. SENSOR SWITCH, #MWR-POT-9. SET TIME DELAY TO 30 MINUTES. PROGRAM FOR AUTO-ON.
 - PROVIDE WALL SWITCH OCCUPANCY SENSOR. SENSOR SWITCH, #MWR-POT-WH.
 - PROVIDE 7-DAY TIMELOCK FOR BATHROOM EXHAUST FAN CONTROL. COORDINATE ALL WORK & LOCATIONS WITH MECHANICAL.
 - UP TO EXHAUST FAN ON ROOF. SEE SHEET E801 FOR CONTINUATION.

LIGHTING SHEET NOTES

- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH INSTALLATION.
- CONTRACTOR SHALL IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED.
- ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
- ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
- GRAPHICS / SIGNAGE: VERIFY & PROVIDE CONNECTION TO SIGNAGE PER VENDOR'S SHOP DRAWINGS. VERIFY SIGN LOCATION, MOUNTING ELEVATION AND BRANCH CIRCUIT REQUIREMENTS PRIOR TO ROUGH-IN.
- ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.
- PROVIDE ALL REQUIRED DEVICE COVER PLATES.

LIGHTING LEGEND

- PROVIDE ALIGHT, #P00M-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE ALIGHT, #P00M-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TEACHERS STATION. VERIFY EXACT LOCATION W/ARCH.
- OCCUPANCY SENSOR WITH DAYLIGHT CONTROL, CEILING MOUNTED. PROVIDE ALIGHT, #MWR-T-10-RUB-ADXX. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE ALIGHT, #MWR-T-10-RUB-ADXX. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE ALIGHT, #HPP16-D-EFF.

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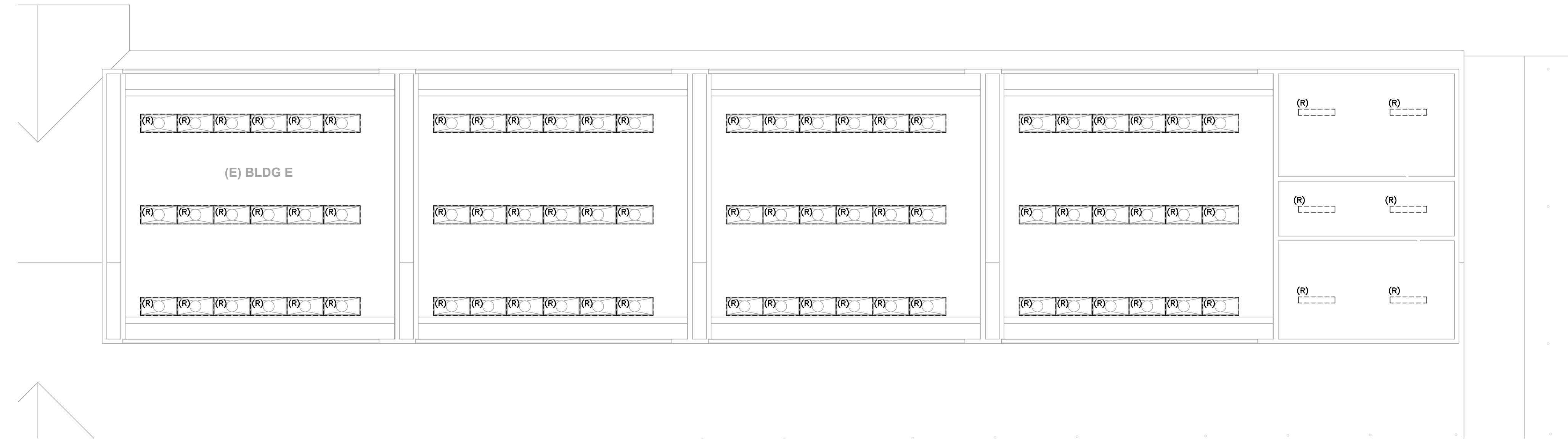
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PROJECT NO:	19122.01-38
DRAWN BY:	VPZ
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ISSUE DATE:	1/29/2020

BUILDING D LIGHTING DEMOLITION/LIGHTING PLAN

SHEET NUMBER

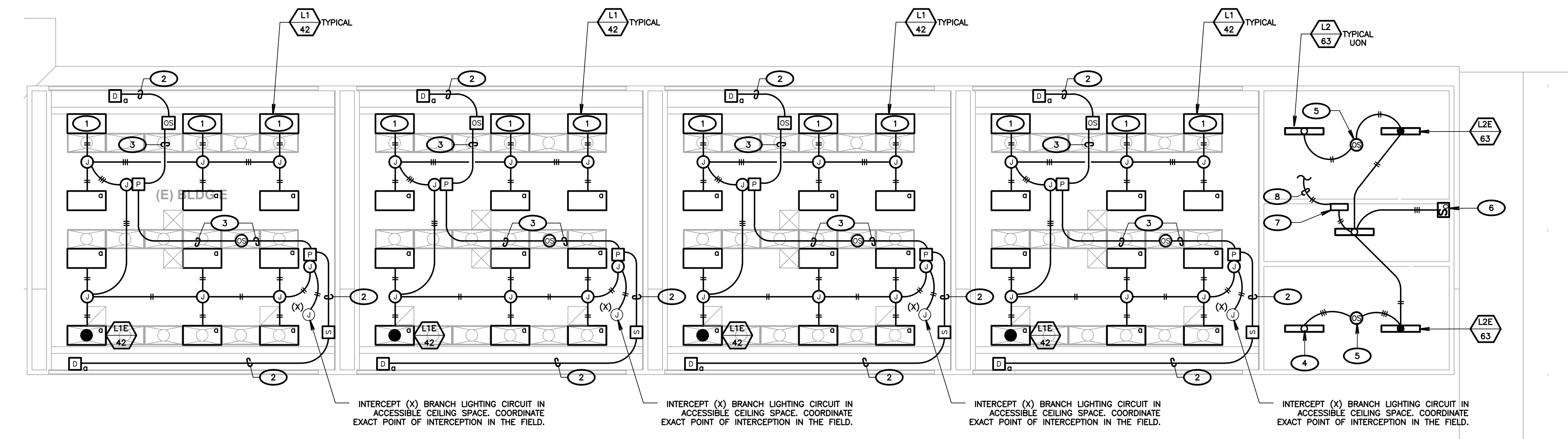
E402

CONSTRUCTION DOCUMENTS



DEMOLITION LEGEND	
(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE, RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.

1 BUILDING E LIGHTING DEMOLITION PLAN
SCALE: 1/8"=1'-0"
NORTH



2 BUILDING E LIGHTING PLAN
SCALE: 1/8"=1'-0"
NORTH

- KEYNOTES**
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- LIGHT FIXTURE LOCATED IN DAYLIT ZONE SHALL BE CONTROLLED BY SENSOR W/DAYLIGHT CONTROL.
 - PROVIDE 1" O. EMT TO ACCESSIBLE CEILING SPACE W/PLASTIC BUSHING(S). PROVIDE ALL REQUIRED PRE-TERMINATED NIGHT CATS CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
 - PROVIDE PRE-TERMINATED NIGHT CATS CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
 - INTERCEPT EXISTING RESTROOM BRANCH LIGHTING CIRCUIT HOT & NEUTRAL.
 - PROVIDE CEILING MOUNT OCCUPANCY SENSOR, SENSOR SWITCH, #COP-POT-9. SET TIME DELAY TO 30 MINUTES. PROGRAM FOR AUTO-ON.
 - PROVIDE WALL SWITCH OCCUPANCY SENSOR, SENSOR SWITCH, #WSX-POT-WH.
 - PROVIDE 7-DAY TIMELOCK FOR BATHROOM EXHAUST FAN CONTROL. COORDINATE ALL WORK & LOCATIONS WITH MECHANICAL.
 - UP TO EXHAUST FAN ON ROOF. SEE SHEET E801 FOR CONTINUATION.

- LIGHTING LEGEND**
- PROVIDE H/LIGHT, #PDOM-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-DWG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - PROVIDE H/LIGHT, #PDOM-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-DWG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TEACHERS STATION. VERIFY EXACT LOCATION W/ARCH.
 - OCCUPANCY SENSOR WITH DAYLIGHT CONTROL, CEILING MOUNTED. PROVIDE H/LIGHT, #COP-POT-10-RUB-ADCK. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE H/LIGHT, #COP-POT-10-RUB. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE H/LIGHT, #PP16-D-EFP.

- LIGHTING SHEET NOTES**
- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH INSTALLATION.
 - CONTRACTOR SHALL IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
 - CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
 - 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED.
 - ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
 - VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
 - MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
 - ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
 - VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
 - COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
 - PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
 - GRAPHICS / SIGNAGE: VERIFY & PROVIDE CONNECTION TO SIGNAGE PER VENDOR'S SHOP DRAWINGS. VERIFY SIGN LOCATION, MOUNTING ELEVATION AND BRANCH CIRCUIT REQUIREMENTS PRIOR TO ROUGH-IN.
 - ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.
 - PROVIDE ALL REQUIRED DEVICE COVER PLATES.

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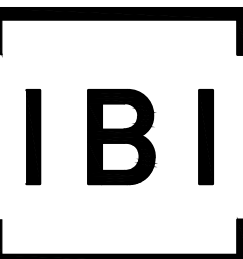
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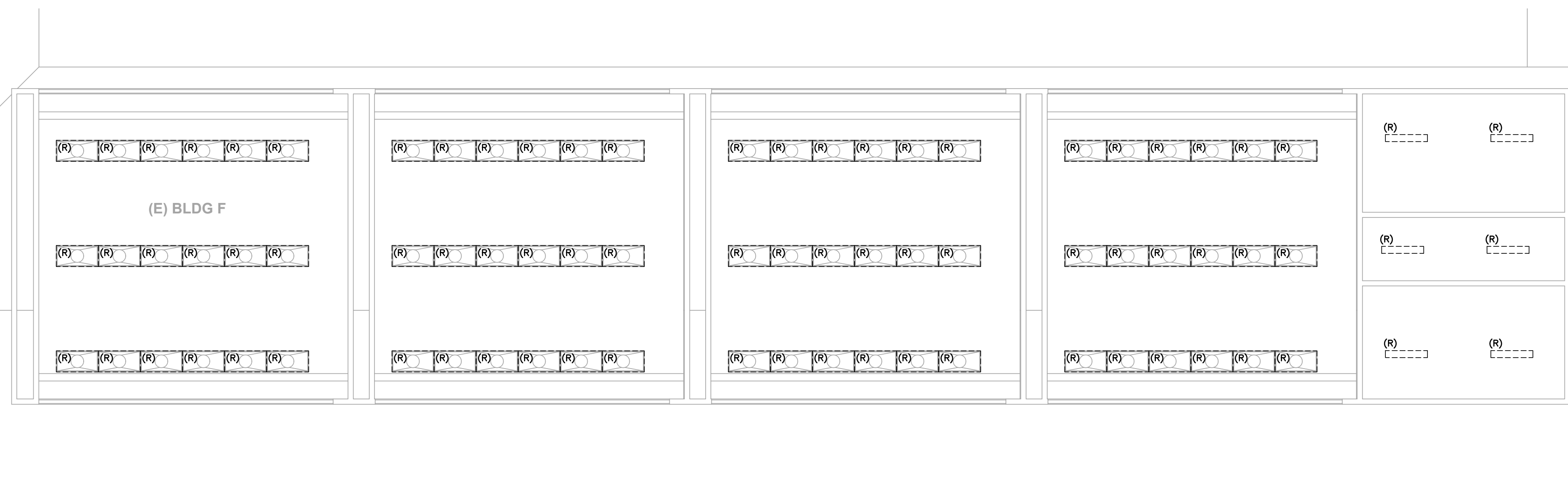
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CHKD BY: DF
ISSUE DATE: 1/29/2020
SHEET TITLE

BUILDING E LIGHTING DEMOLITION/LIGHTING PLAN

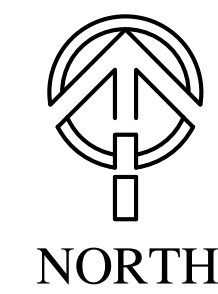
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E403

CONSTRUCTION DOCUMENTS



DEMOLITION LEGEND	
(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.



1 BUILDING F LIGHTING DEMOLITION PLAN
SCALE: 1/8"=1'-0"

KEYNOTES
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

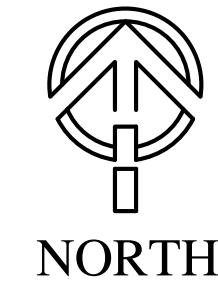
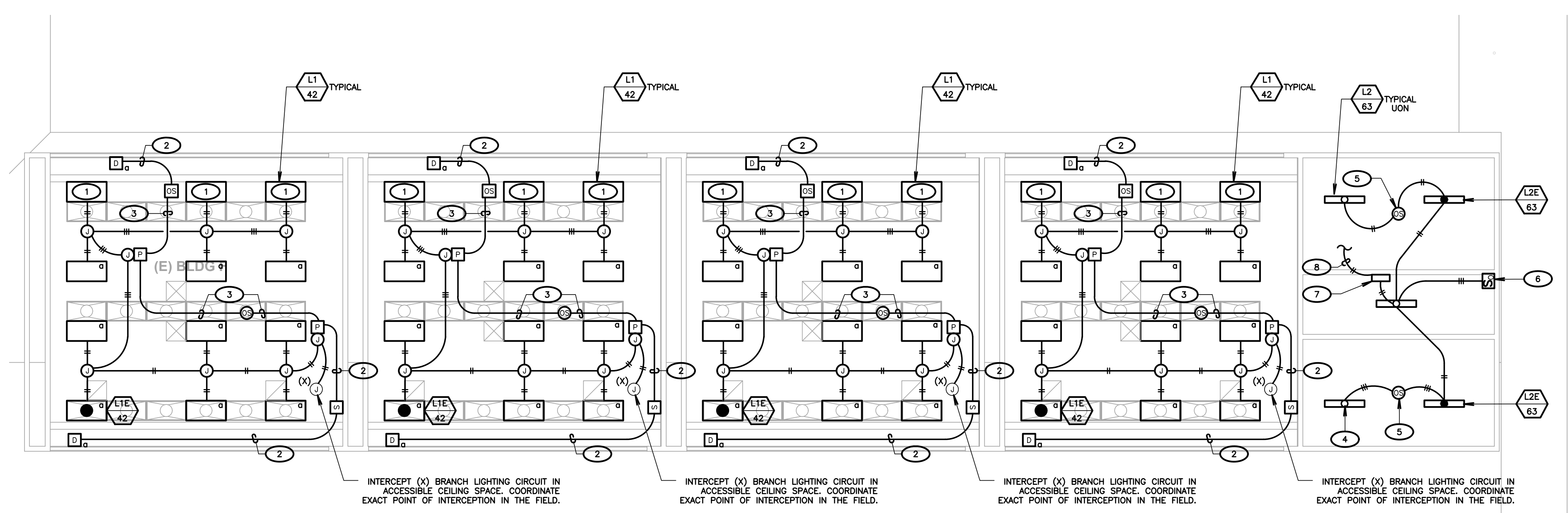
- LIGHT FIXTURE LOCATED IN DAYLIGHT ZONE SHALL BE CONTROLLED BY SENSOR W/DAYLIGHT CONTROL.
- PROVIDE 1" C. DRY TO ACCESSIBLE CEILING SPACE W/P/PLASTIC BUSINESS CONNECT DEVICES. PROVIDE ALL REQUIRED PRE-TERMINATED FLIGHT CATS CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
- PROVIDE PRE-TERMINATED FLIGHT CATS CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
- INTERCEPT EXISTING RESTROOM BRANCH LIGHTING CIRCUIT HOT & NEUTRAL.
- PROVIDE CEILING MOUNT OCCUPANCY SENSOR, SENSOR SWITCH, #6MXPOT-9, SET TIME DELAY TO 30 MINUTES. PROGRAM FOR AUTO-ON.
- PROVIDE WALL SWITCH OCCUPANCY SENSOR, SENSOR SWITCH, #W6X-POT-WH.
- PROVIDE 7-DAY TIMELOCK FOR BATHROOM EXHAUST FAN CONTROL. COORDINATE ALL WORK & LOCATIONS WITH MECHANICAL.
- UP TO EXHAUST FAN ON ROOF. SEE SHEET E801 FOR CONTINUATION.

LIGHTING SHEET NOTES

- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL, PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH INSTALLATION.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED.
- ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
- CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
- GRAPHICS / SIGNAGE: VERIFY & PROVIDE CONNECTION TO SIGNAGE PER VENDOR'S SHOP DRAWINGS. VERIFY SIGN LOCATION, MOUNTING ELEVATION AND BRANCH CIRCUIT REQUIREMENTS PRIOR TO ROUGH-IN.
- ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.
- PROVIDE ALL REQUIRED DEVICE COVER PLATES.

LIGHTING LEGEND

- [1] PROVIDE FLIGHT, #1PMDM-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- [2] PROVIDE FLIGHT, #1PMDM-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TEACHERS STATION. VERIFY EXACT LOCATION W/ARCH.
- [3] OCCUPANCY SENSOR WITH DAYLIGHT CONTROL. CEILING MOUNTED. PROVIDE FLIGHT, #1CAMPT-10-RB-ADCL. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- [4] OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE FLIGHT, #1CAMPT-10-RB-ADCL. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- [5] PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE FLIGHT, #1PP16-D-EFP.



2 BUILDING F LIGHTING PLAN
SCALE: 1/8"=1'-0"

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BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS E.S. MODERNIZATION

815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO:	NA
PROJECT NO:	19122.01-38
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	1/29/2020

SHEET TITLE

BUILDING F LIGHTING DEMOLITION/LIGHTING PLAN

SHEET NUMBER

E404

CONSTRUCTION DOCUMENTS

LIGHT FIXTURE SCHEDULE

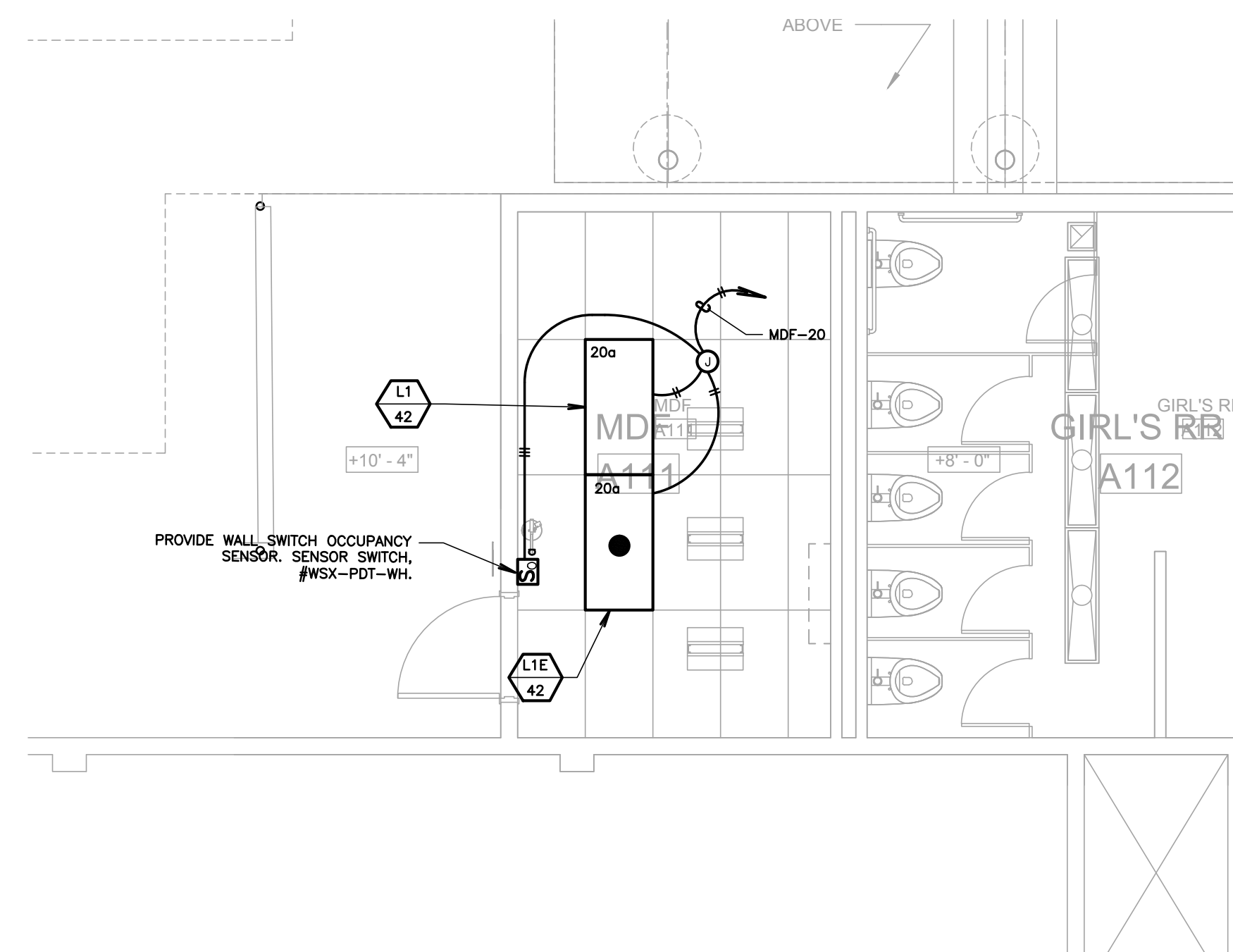
TYPE	LAMP		VOLTS	MOUNTING						DESCRIPTION	REMARKS		
	No	TYPE		208	120	REC.	REC.	REC.	REC.				
L1	42	LED								LITHONIA	CPANL-2X4-40/50 60LM-40K-M2	2X4 FLAT PANEL, 4,000K 5,000LM	
L1E	42	LED								LITHONIA	CPANL-2X4-40/50 60LM-40K-M2 PS1555CPNCEM	2X4 FLAT PANEL 4,000K 5,000LM, BATTERY PACK	
L2	83	LED								KENALL	MLHAB-48-R- MW-FA-55C37K- DDC-DV-5L		1
L2E	83	LED								KENALL	MLHAB-48-R- MW-FA-55C37K- DDC-DV-5L-LEL		1
P1	135	LED								BEACON	VPL-64L-135-4K7 SR-UNV-XX-BSP-	SINGLE HEAD	1
P2	135	LED								BEACON	VPL-64L-135-4K7 3-UNV-XX-BSP-	SINGLE HEAD	1
C2	135	LED								BEACON	VPL-64L-135-4K7 2-UNV-XX-BSP-	SINGLE HEAD	1 2
D	135	LED								BEACON	VPL-64L-135-4K7 4-UNV-XX-BSP-	SINGLE HEAD	1 2
EM	2	LED								EVENLITE	WW-EM-XX	EMERGENCY LIGHT	1 7
W	21	LED								RAB LIGHTING	SUM-18-N-X		1 5
S	13	LED								KENALL	MS11CL-PP-XX 10L40K-DV-	4,000K	1 8
R	24	LED								SYLVANIA	LED/R18/2000/840 R18TRIMALZK R18/10/TRIMEXT	4,000K	1 13
U	10	LED								VISTA	1164-SS-X-FL- 6EMITTER-C- 120-277-AL-CX-12S		1 4

FIXTURE SCHEDULE NOTES:

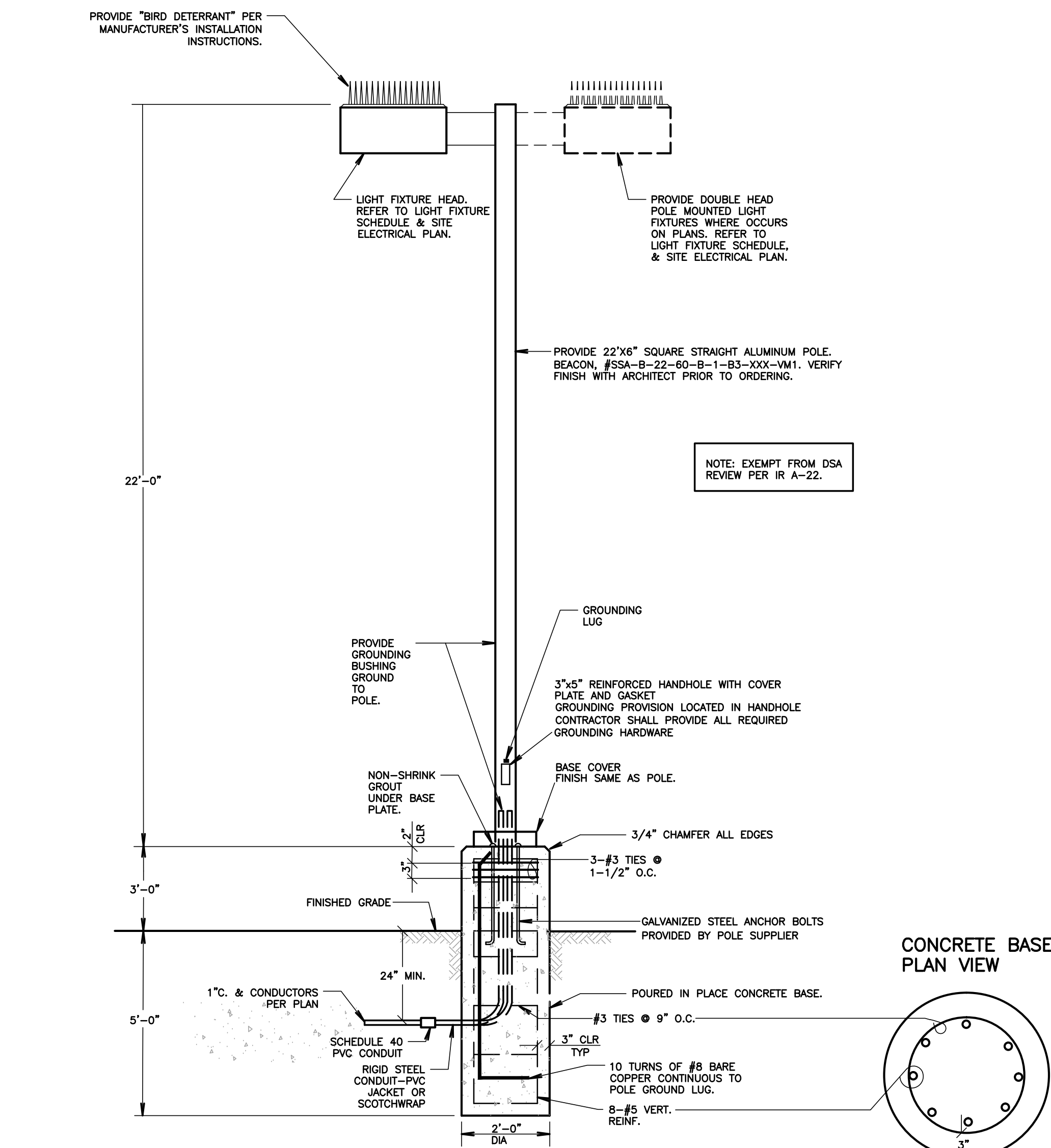
- CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING PROPER TYPES OF TRIMS FOR ALL RECESSED FLUORESCENT FIXTURES TO FIT THE CEILING BEING INSTALLED.
- ALL BALLASTS SHALL BE ELECTRONIC SOLID STATE.
- FIXTURES TYPE IN CONTACT WITH INSULATION SHALL HAVE U.L. LISTED THERMAL BARRIERS.
- CONTRACTOR SHALL VERIFY THE TYPE OF CEILING BEFORE ORDERING NEW FIXTURES. CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE ALL MOUNTING BRACKETS TO FIT CEILING CONDITIONS AT NO EXTRA CHARGE TO THE OWNER.
- SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CEILING CONFIGURATION.

LIGHTING FIXTURE SCHEDULE KEY NOTES:

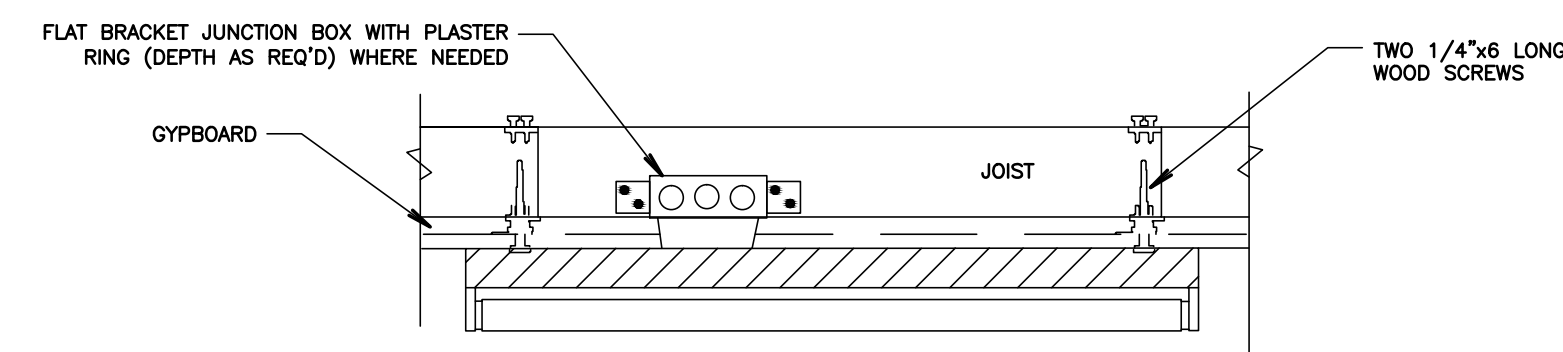
- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- CONTRACTOR SHALL VERIFY COLOR/FINISH WITH ARCHITECT PRIOR TO ORDERING.
 - CONTRACTOR SHALL ATTACH LIGHT FIXTURE HEAD TO EXISTING POLE. PROVIDE ALL REQUIRED WORK AND MATERIALS IN ORDER TO REMOVE EXISTING LIGHT FIXTURE HEAD(S) AT THIS POLE. DRILL NEW HOLES, AS REQUIRED, TO ATTACH BEACON LIGHT FIXTURE HEAD(S). PROVIDE ALL REQUIRED WORK AND MATERIALS IN ORDER TO RECONNECT EXISTING BRANCH LIGHTING CIRCUIT AND CONTROL TO BEACON LIGHT FIXTURE HEAD(S).
 - CONTRACTOR SHALL VERIFY PROPER R78 TRIM & TRIM RING EXTENDER W/SCHOOL DISTRICT PRIOR TO ORDERING.
 - CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR CONCRETE POUR OR DIRT IN THE AREA WHERE LIGHT IS INSTALLED.
 - LIGHT FIXTURE WEIGHT IS 4.3 LBS. PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - LIGHT FIXTURE WEIGHT IS 2.3 LBS. PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - LIGHT FIXTURE WEIGHT IS 5 LBS. PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - REFER TO SHEET 3A8201, DETAIL #30 FOR MOUNTING DETAIL.



4 MDF ROOM LIGHTING PLAN
SCALE: 1/4" = 1'-0"



3 TYPICAL POLE LIGHT DETAIL
NOT TO SCALE



1 SURFACE MOUNTED LIGHTING FIXTURE
SCALE: NOT TO SCALE

ALL LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100% OF THE LIGHTING FIXTURE WEIGHT ACTING IN ANY DIRECTION.

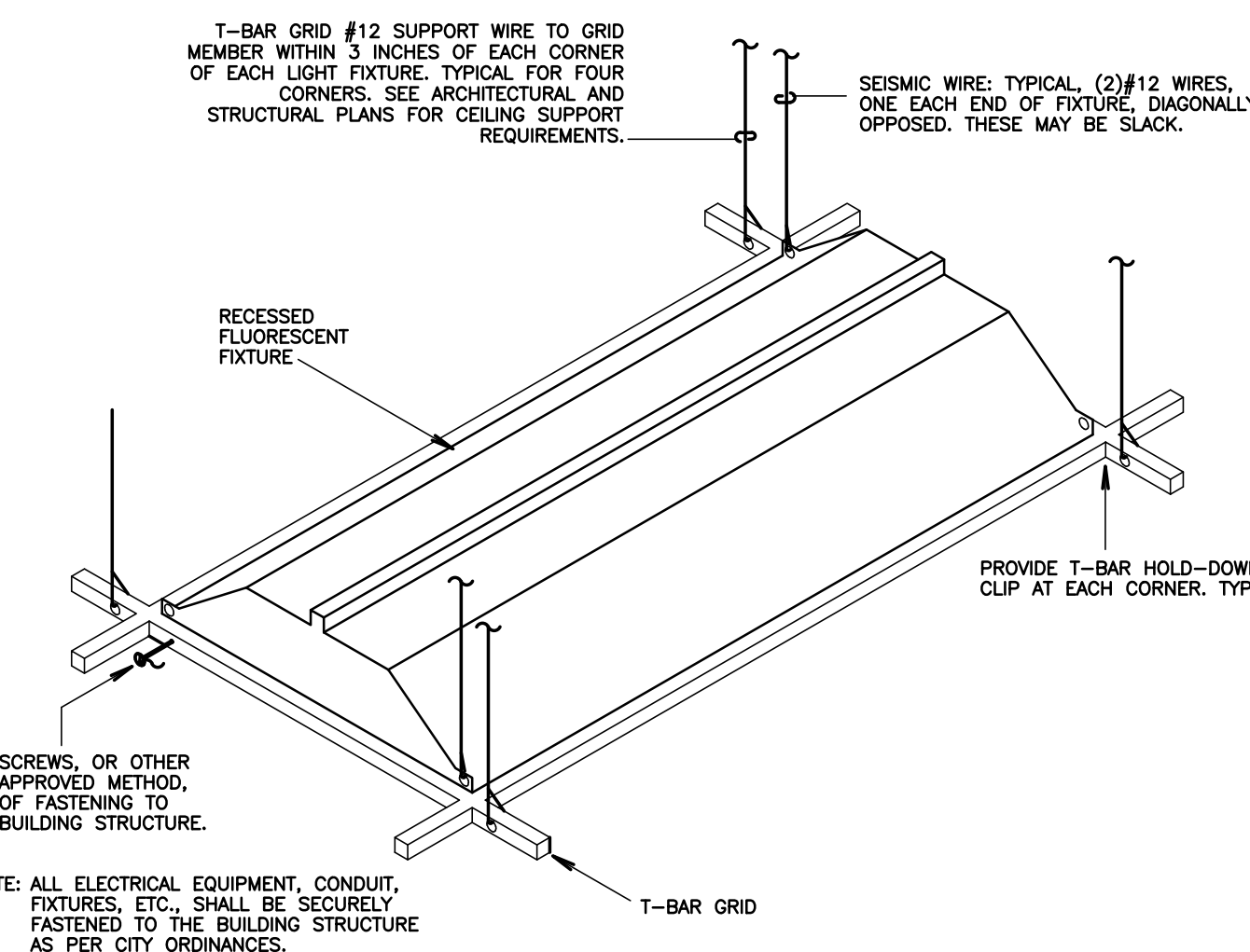
WHEN "INTERMEDIATE" SYSTEMS ARE USED, #12 GAUGE HANGERS SHALL BE ATTACHED TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE. TANDEM FIXTURES MAY UTILIZE COMMON WIRES.

WHERE "HEAVY DUTY" SYSTEMS ARE USED, SUPPLEMENTAL HANGERS ARE NOT REQUIRED IF A 48" MODULAR HANGER PATTERN IS FOLLOWED. WHEN CROSS RUNNERS ARE USED WITHOUT SUPPLEMENTAL HANGERS TO SUPPORT LIGHTING FIXTURES, THESE CROSS RUNNERS MUST PROVIDE THE SAME CARRYING CAPACITY AS THE MAIN RUNNER.

LIGHTING FIXTURES WEIGHING LESS THAN 66 POUNDS SHALL HAVE, IN ADDITION TO THE REQUIREMENTS OUTLINED ABOVE, TWO #12 GAUGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.

LIGHTING FIXTURES WEIGHING 66 POUNDS OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.

PENDANT-HUNG LIGHTING FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING #8 GAUGE WIRE OR APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.



2 LIGHT FIXTURE TROFFER SUPPORT DETAIL
NOT TO SCALE

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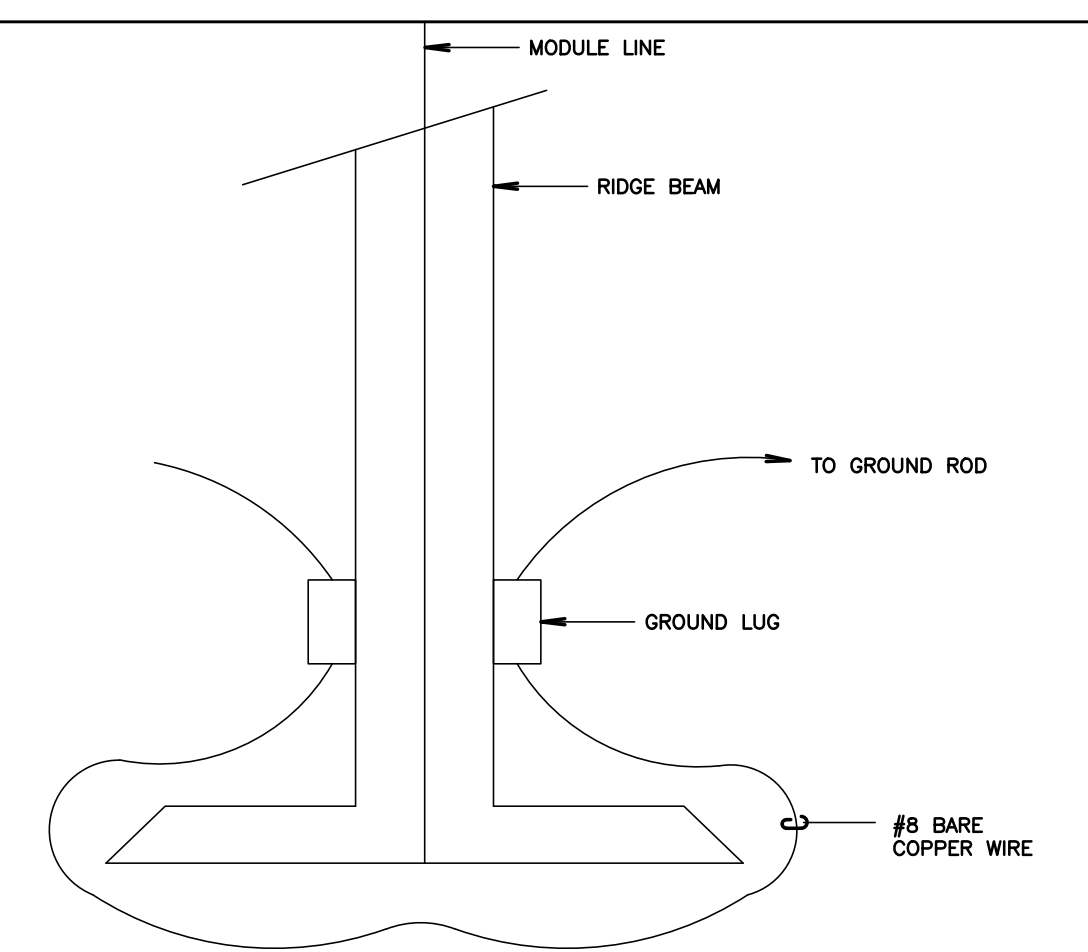
LIGHT FIXTURE SCHEDULE, LIGHTING DETAILS

SHEET NUMBER

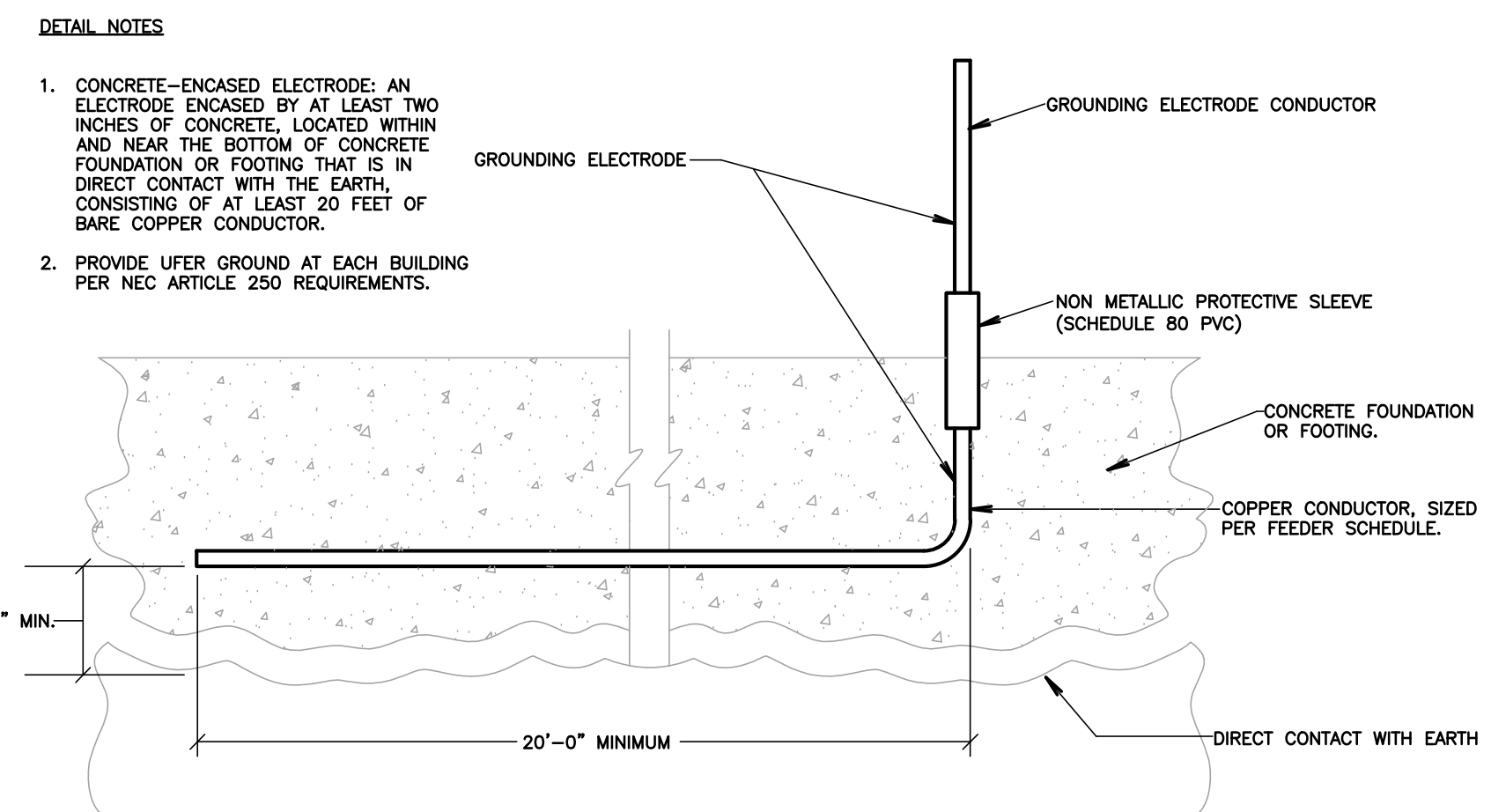
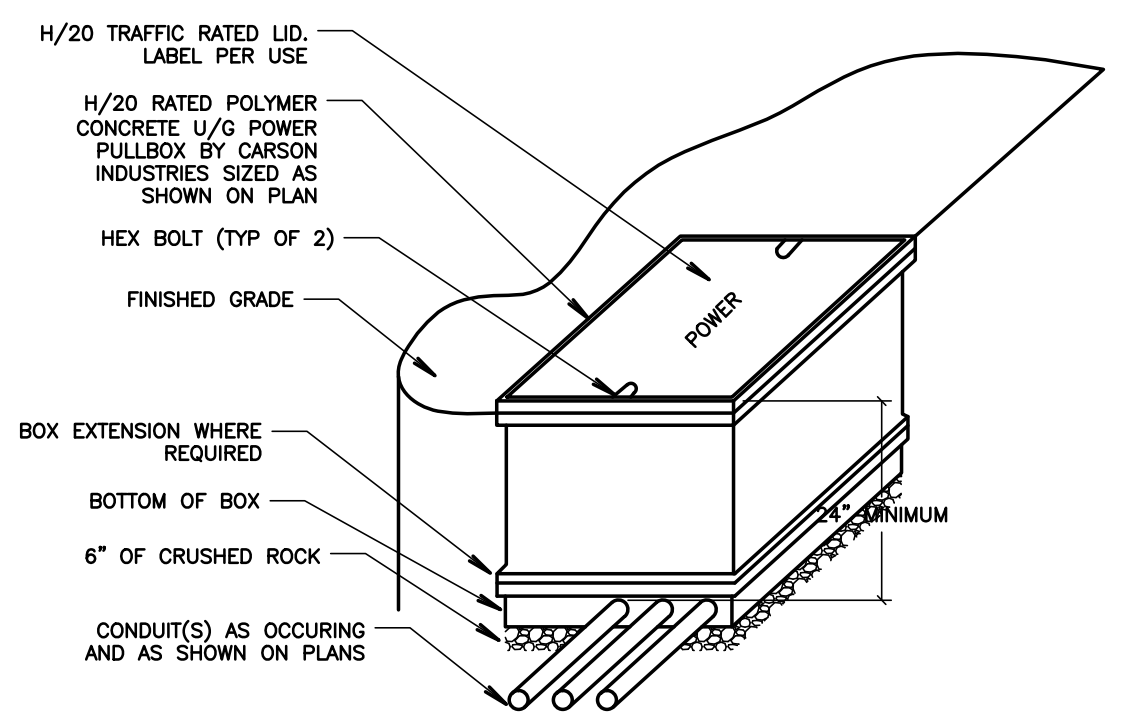
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CONSTRUCTION DOCUMENTS

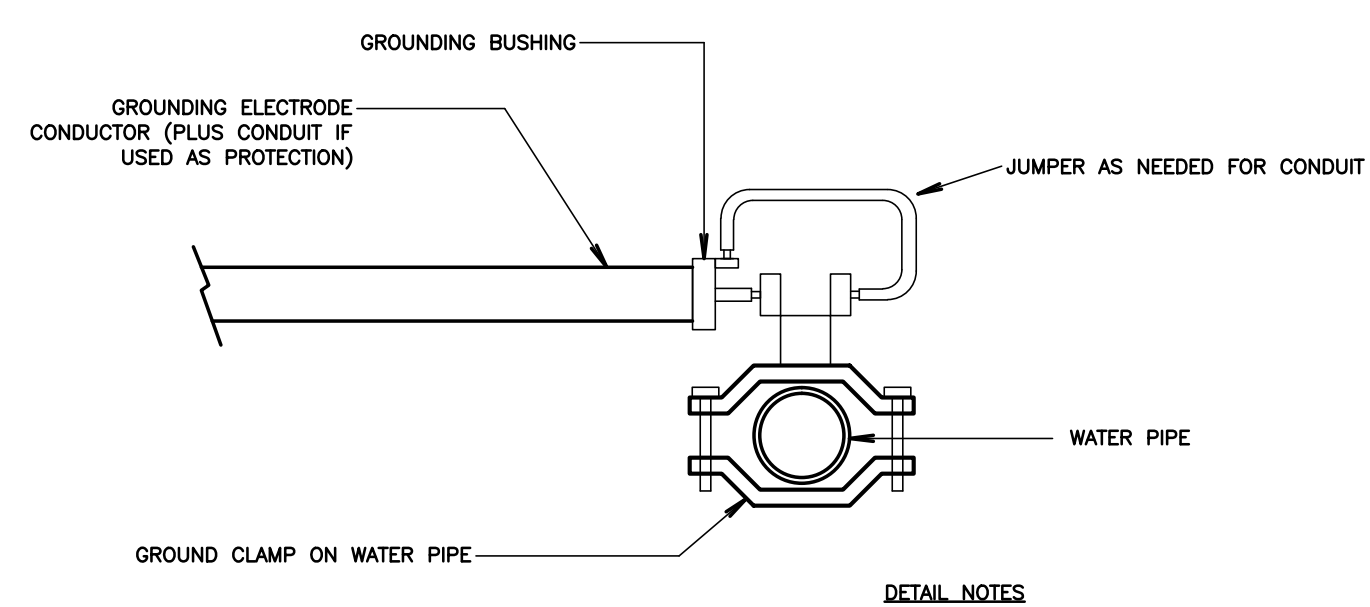
9 RELOCATABLE MODULE BONDING DETAIL
NOT TO SCALE



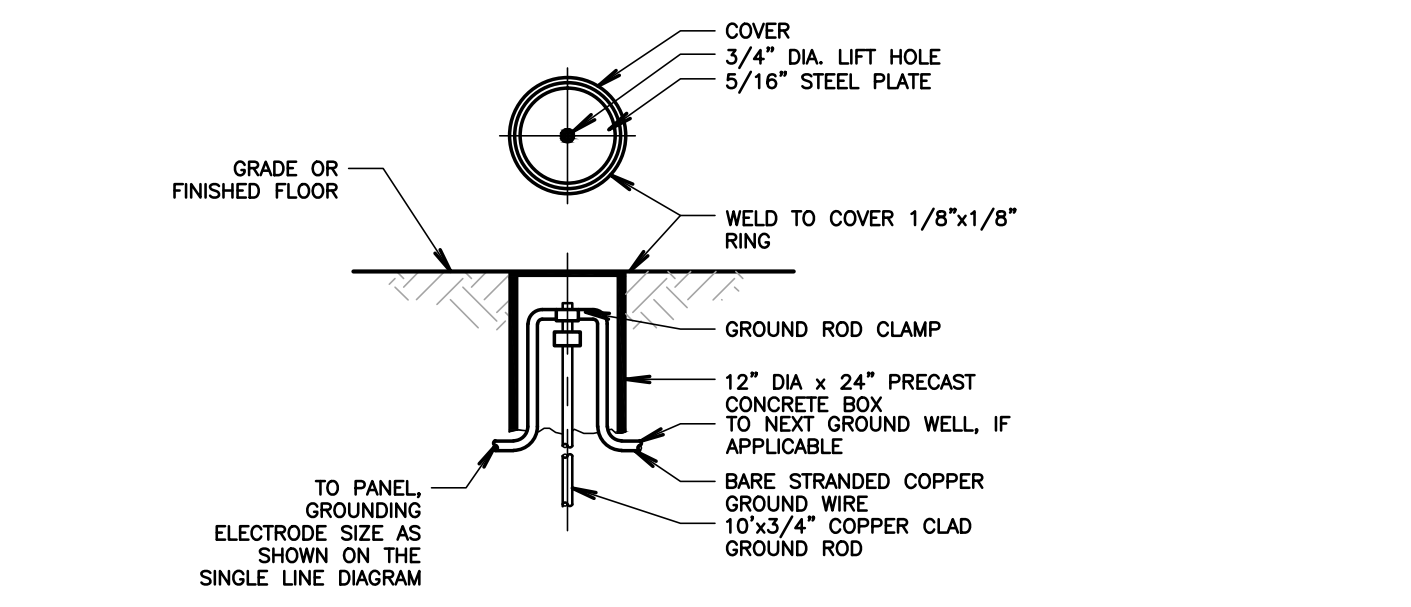
10 TYPICAL PULL BOX DETAIL
SCALE: NOT TO SCALE



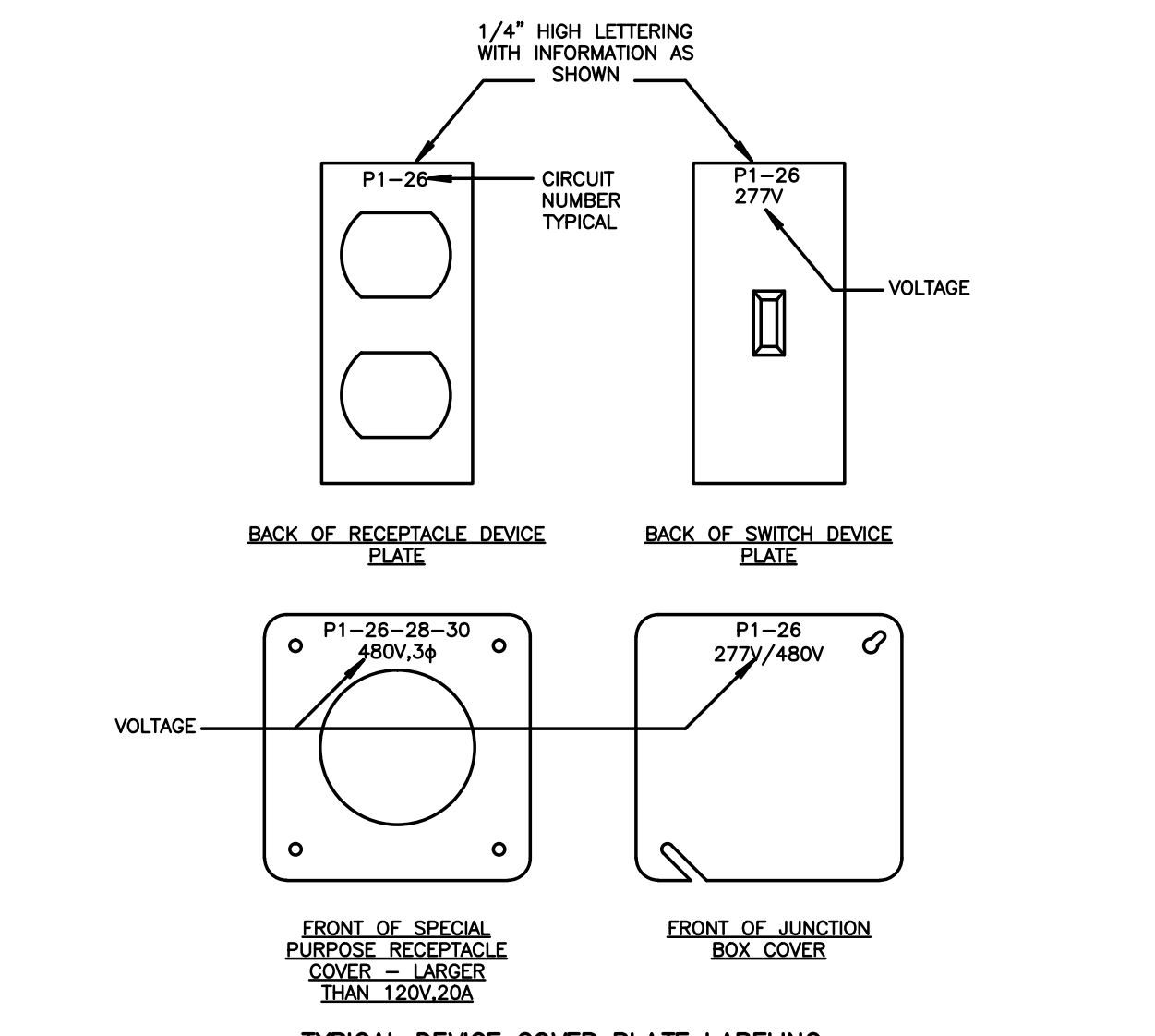
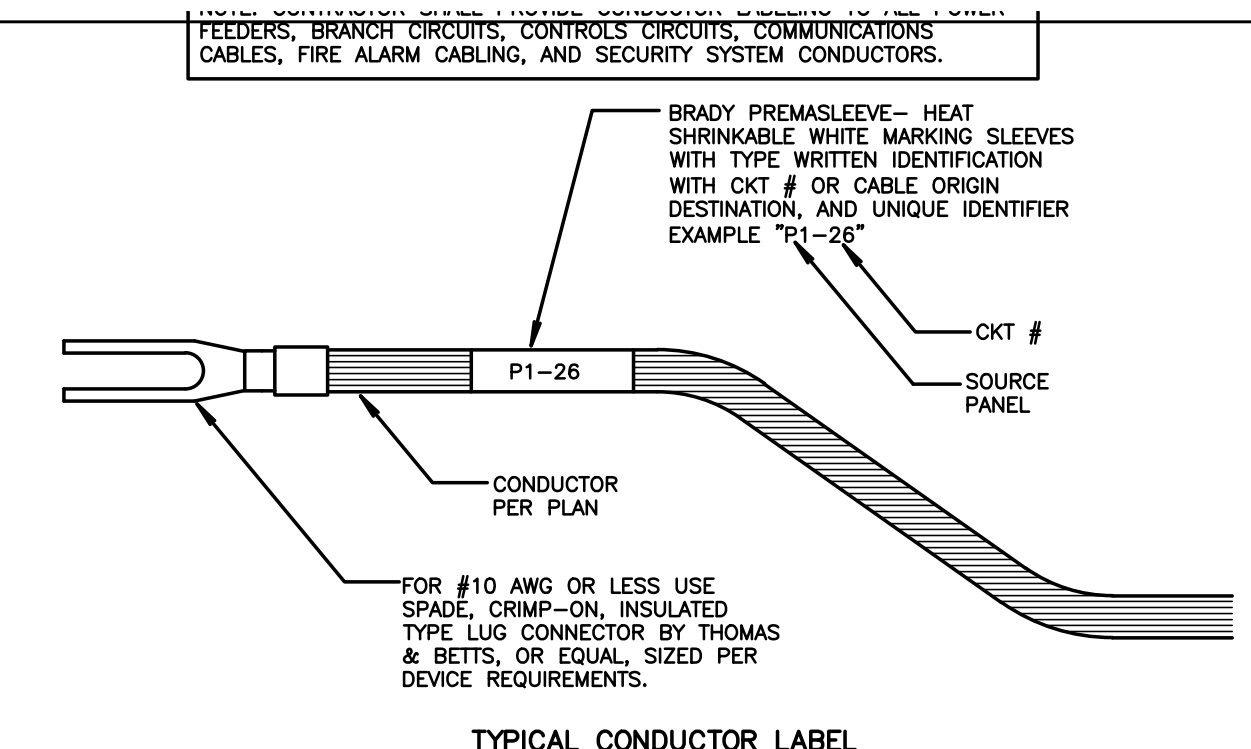
11 UFER GROUND DETAIL
SCALE: NOT TO SCALE



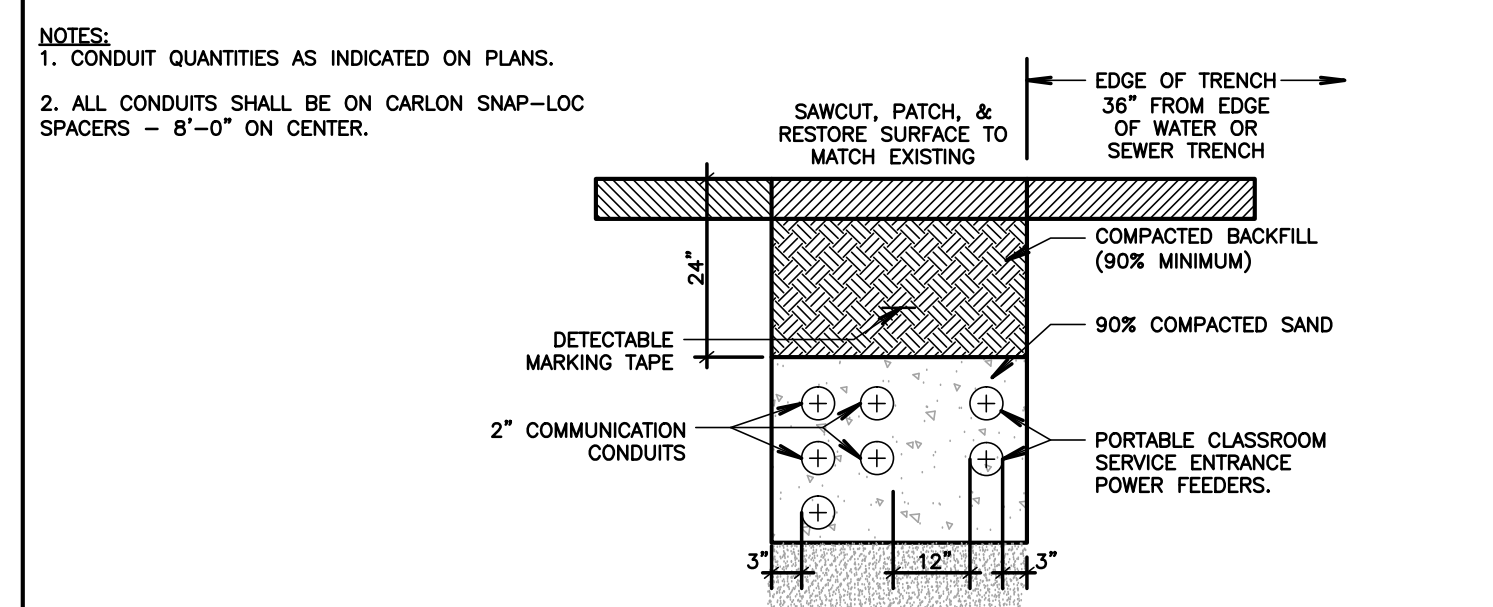
12 COLD WATER GROUND DETAIL
SCALE: NOT TO SCALE



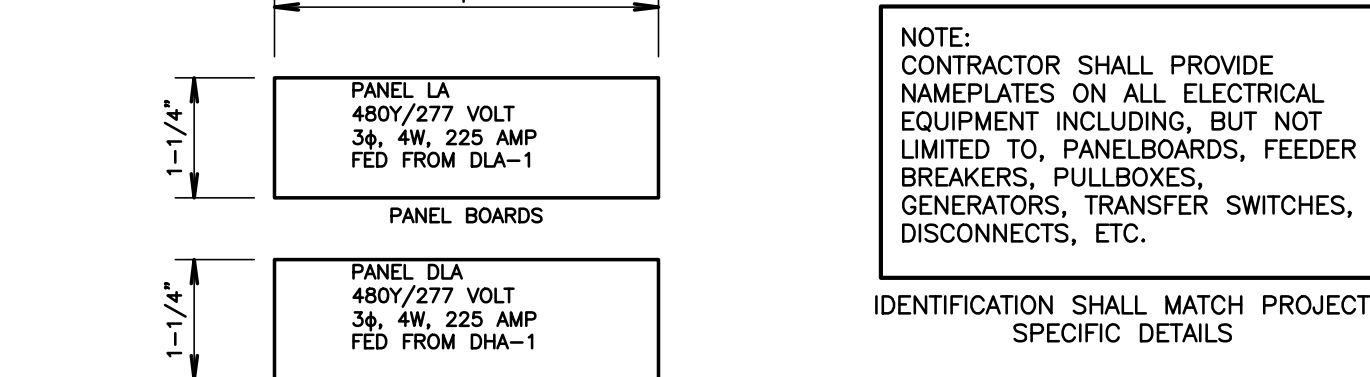
13 GROUND ROD DETAIL
SCALE: NOT TO SCALE



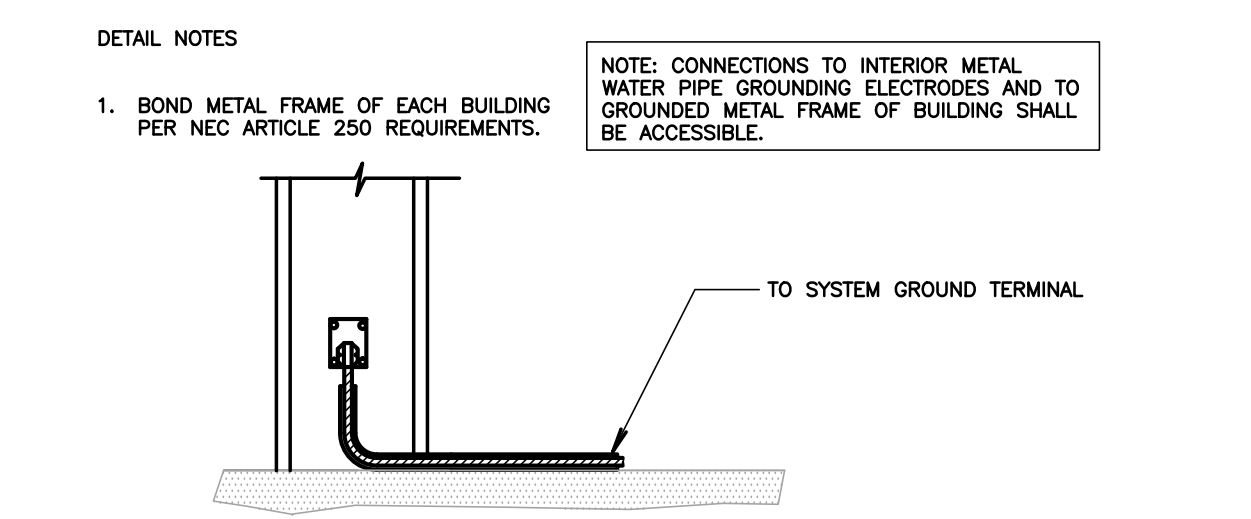
6 TYPICAL LABELING DETAIL
SCALE: NOT TO SCALE



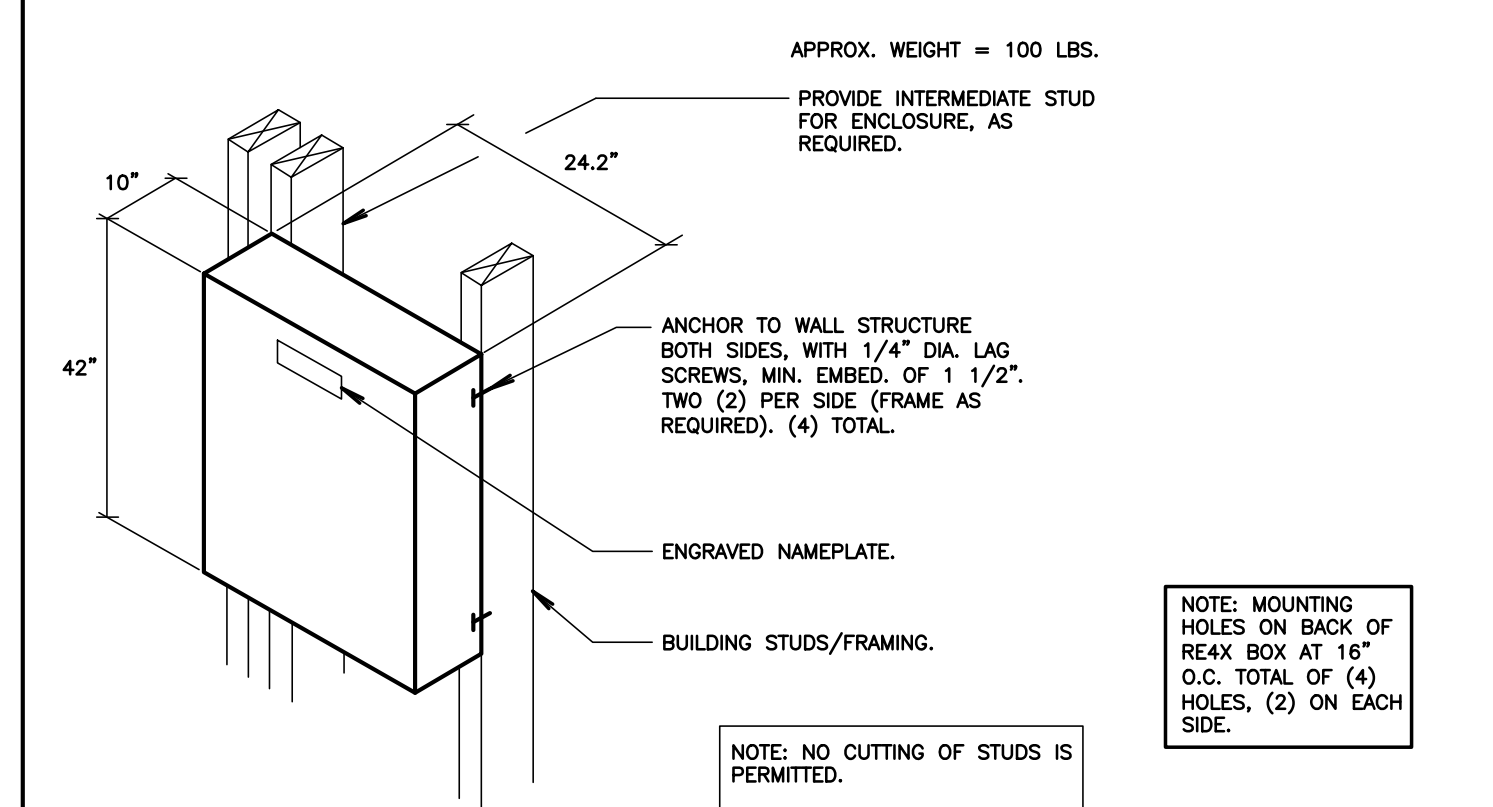
7 TYPICAL DUCT BANK SECTION
SCALE: NOT TO SCALE



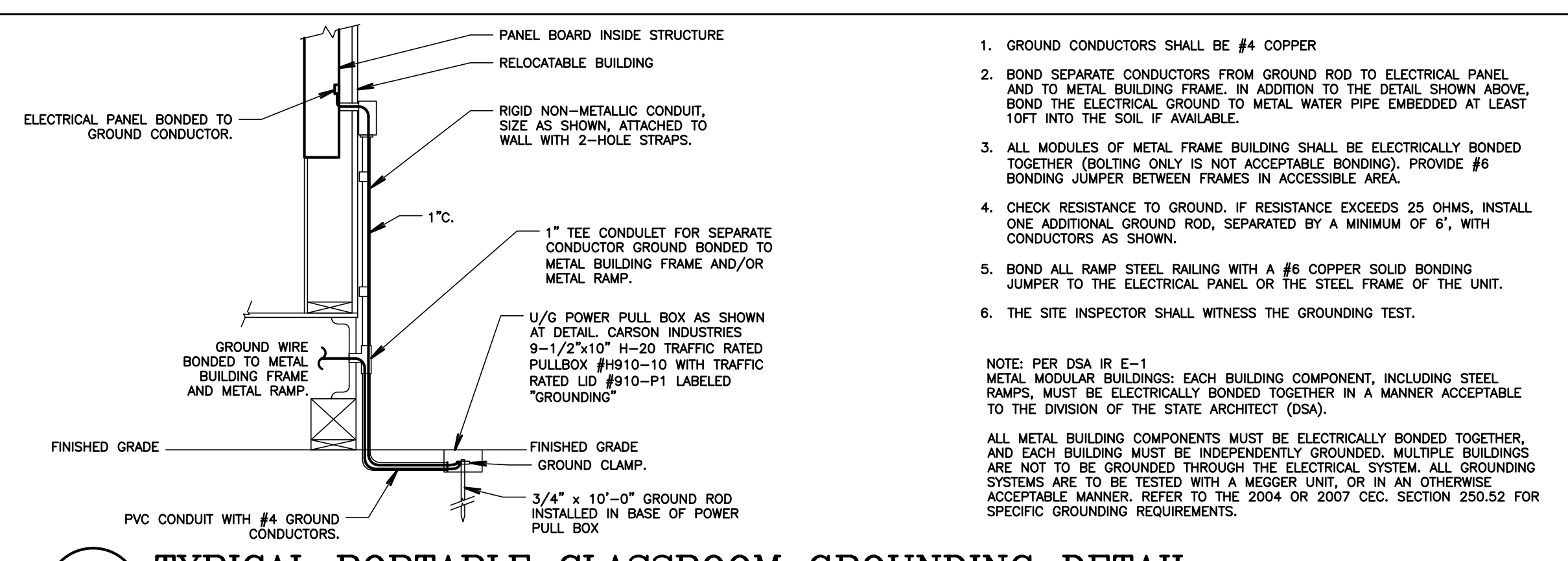
7A TYPICAL NAMEPLATE DETAILS
NOT TO SCALE



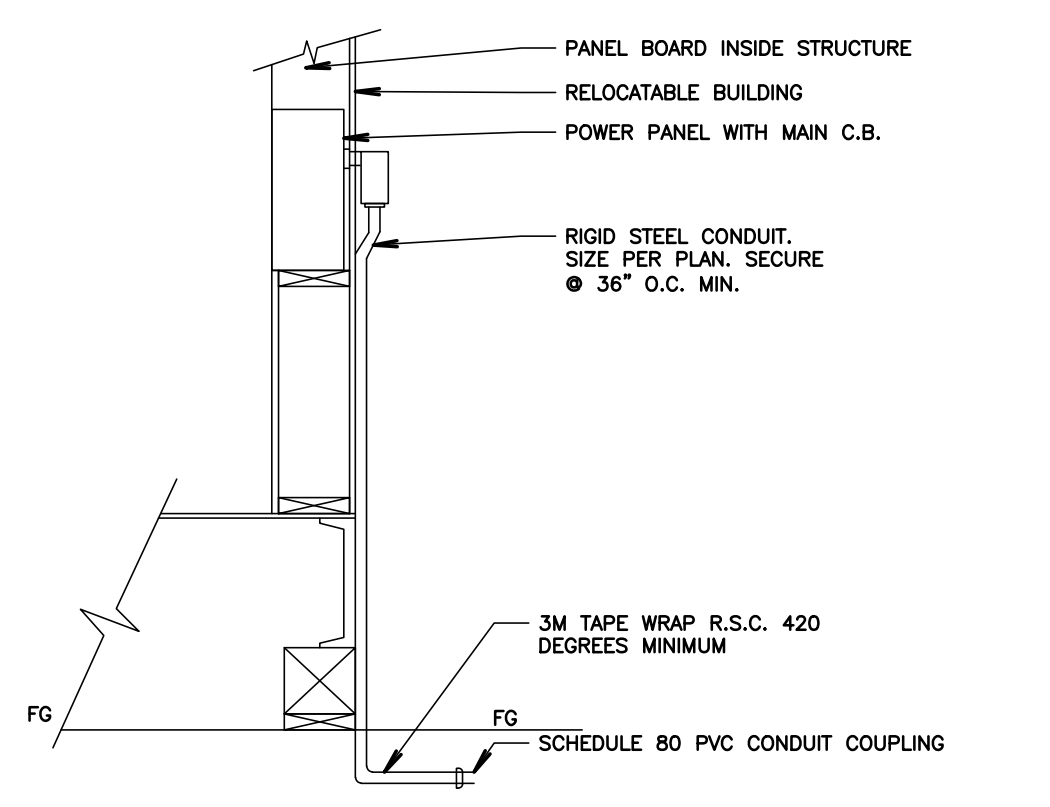
7B METAL FRAME GROUNDING DETAIL
SCALE: NOT TO SCALE



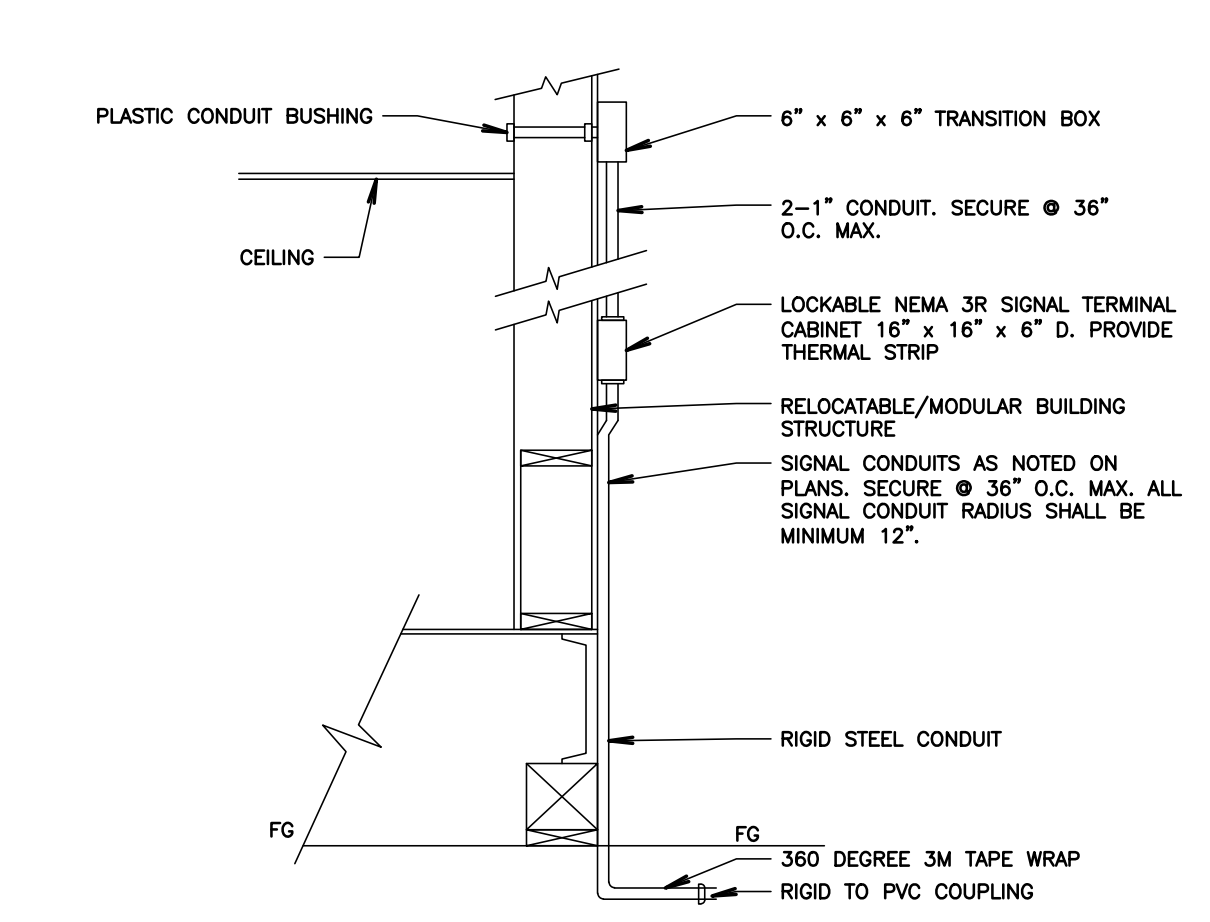
8 HUBBELL RE4X BOX MOUNTING DETAIL
NOT TO SCALE



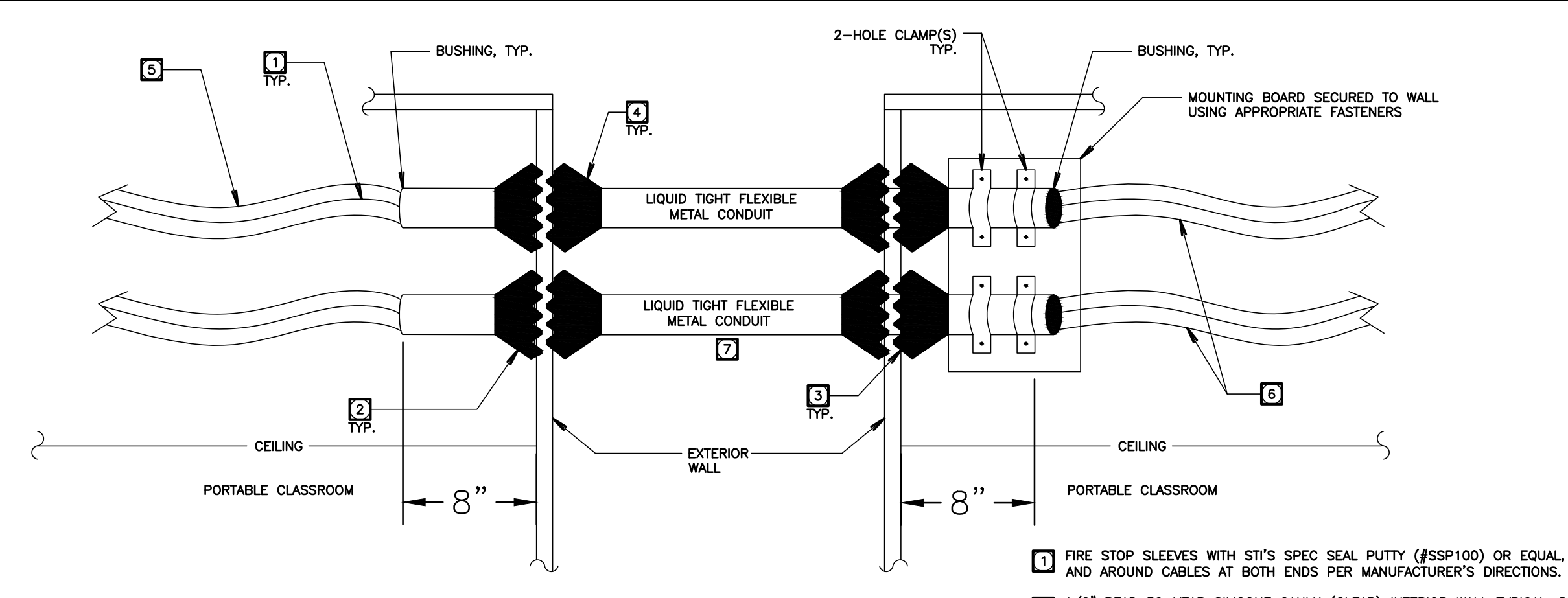
1 TYPICAL PORTABLE CLASSROOM GROUNDING DETAIL
SCALE: NOT TO SCALE



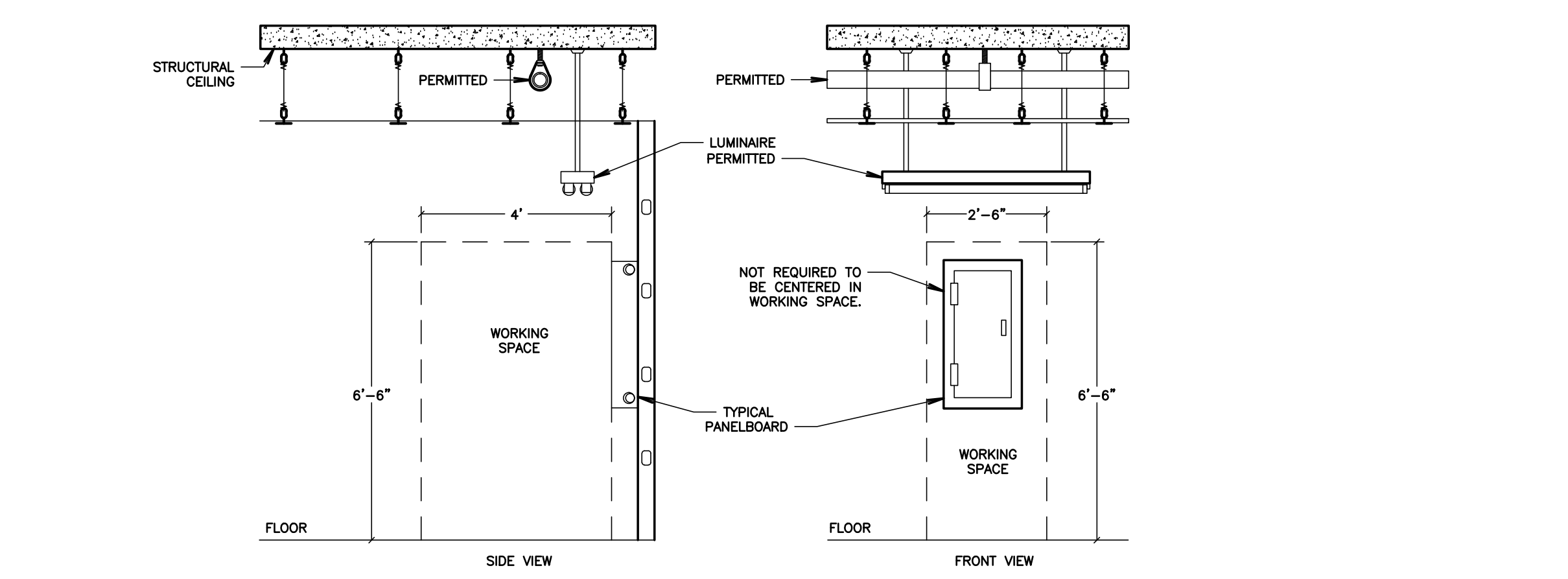
2 TYPICAL PORTABLE CLASSROOM POWER DETAIL
SCALE: NOT TO SCALE



3 TYPICAL PORTABLE CLASSROOM SIGNAL DETAIL
SCALE: NOT TO SCALE



4 TYPICAL CONDUIT EXPANSION DETAIL
NOT TO SCALE



5 TYPICAL PANELBOARD WORKING CLEARANCE
SCALE: NOT TO SCALE

1. GROUND CONDUCTORS SHALL BE #4 COPPER
 2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME. IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10\"/>
 - 3. ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER (ROUTING ONLY IS NOT ACCEPTABLE BONDING). PROVIDE #6 BONDING JUMPER BETWEEN FRAMES IN ACCESSIBLE AREA.
 - 4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ONE ADDITIONAL GROUND ROD, SEPARATED BY A MINIMUM OF 6', WITH CONDUCTORS AS SHOWN.
 - 5. BOND ALL RAMP STEEL RAILING WITH A #6 COPPER SOLID BONDING JUMPER TO THE ELECTRICAL PANEL OR THE STEEL FRAME OF THE UNIT.
 - 6. THE SITE INSPECTOR SHALL WITNESS THE GROUNDING TEST.
- NOTE:** PER DSA IR E-1 METAL MODULAR BUILDINGS, EACH BUILDING COMPONENT, INCLUDING STEEL RAMP, MUST BE ELECTRICALLY BONDED TOGETHER IN A MANNER ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT (DSA).
- ALL METAL BUILDING COMPONENTS MUST BE ELECTRICALLY BONDED TOGETHER, AND EACH BUILDING MUST BE INDEPENDENTLY GROUNDING. MULTIPLE BUILDINGS ARE NOT TO BE GROUNDING THROUGH THE ELECTRICAL SYSTEM. ALL GROUNDING SYSTEMS ARE TO BE TESTED WITH A MEGGER UNIT, OR IN AN OTHERWISE ACCEPTABLE MANNER. REFER TO THE 2004 OR 2007 CEC, SECTION 250.52 FOR SPECIFIC GROUNDING REQUIREMENTS.

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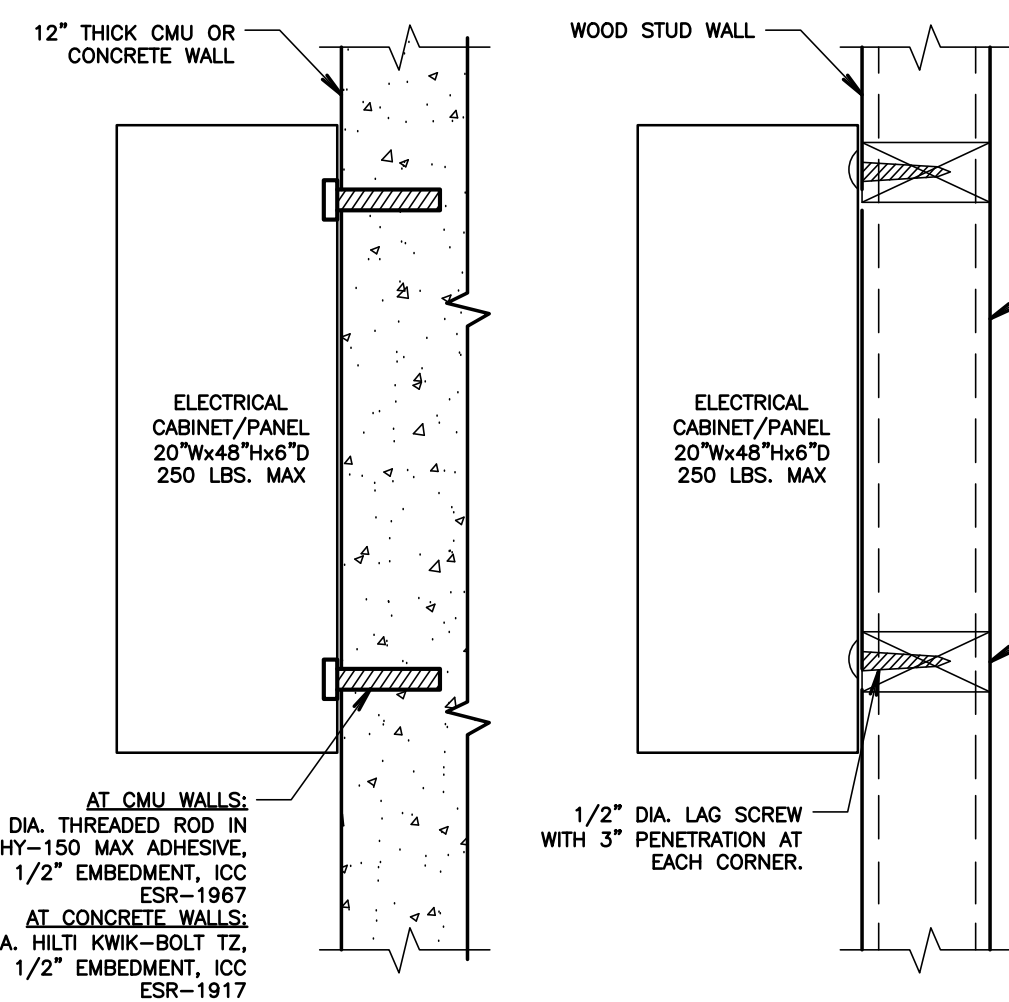
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ELECTRICAL DETAILS SHEET #1

SHEET NUMBER

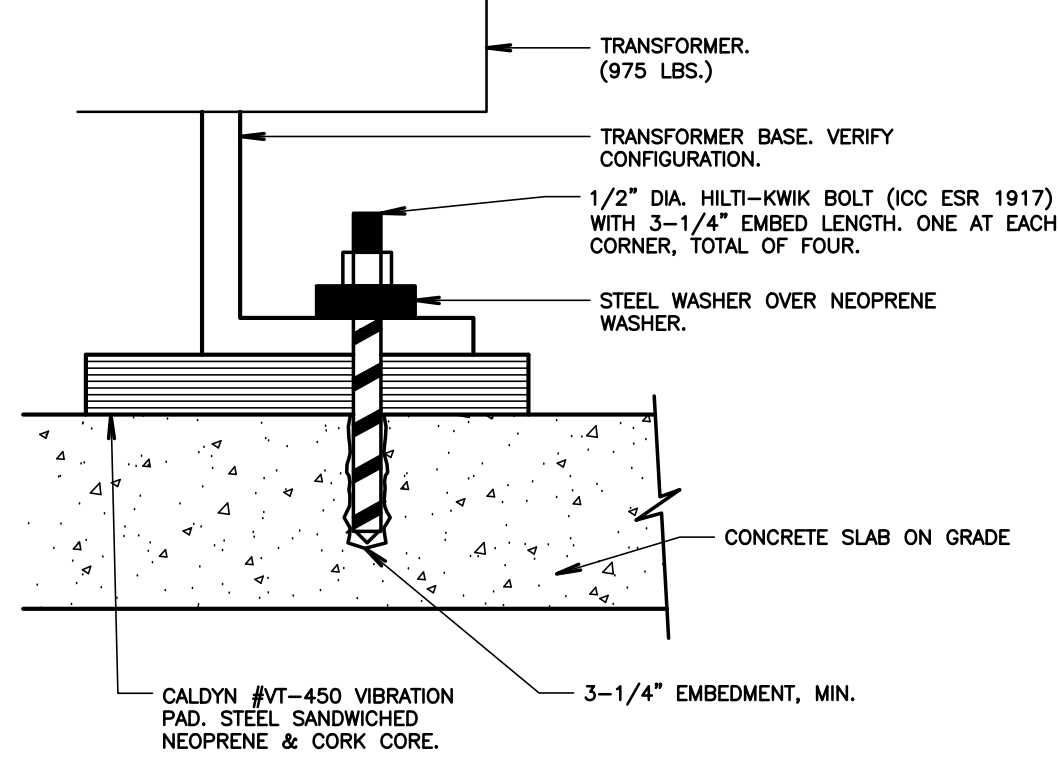
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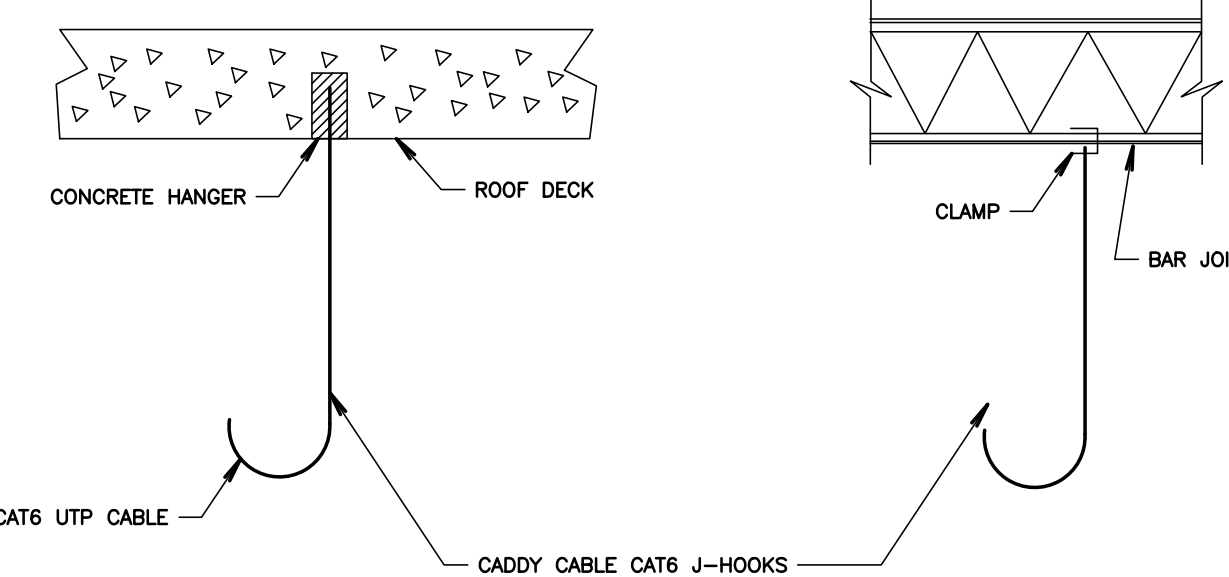
7 SURFACE ELECTRICAL PANEL MOUNTING

SCALE: NOT TO SCALE



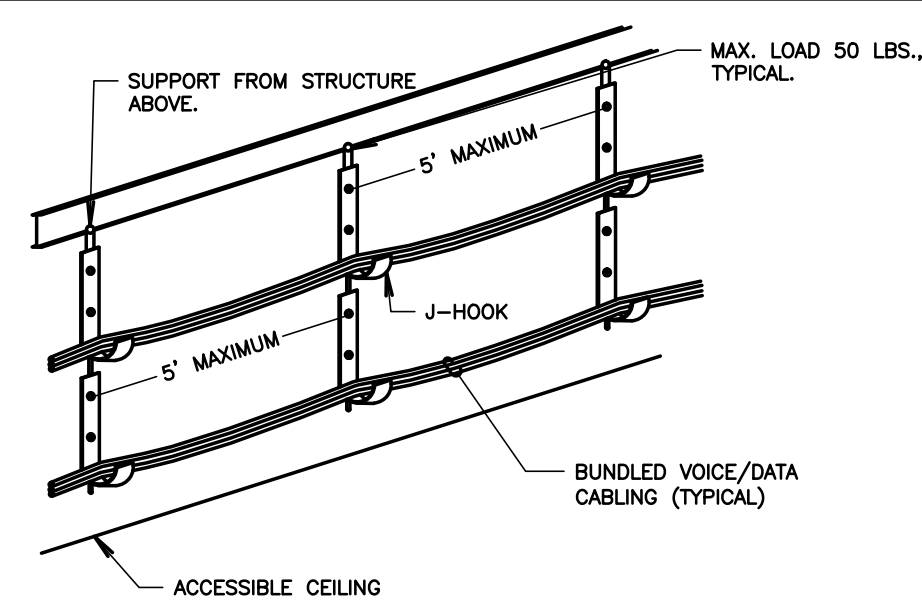
8 TRANSFORMER MOUNTING DETAIL

SCALE: NOT TO SCALE



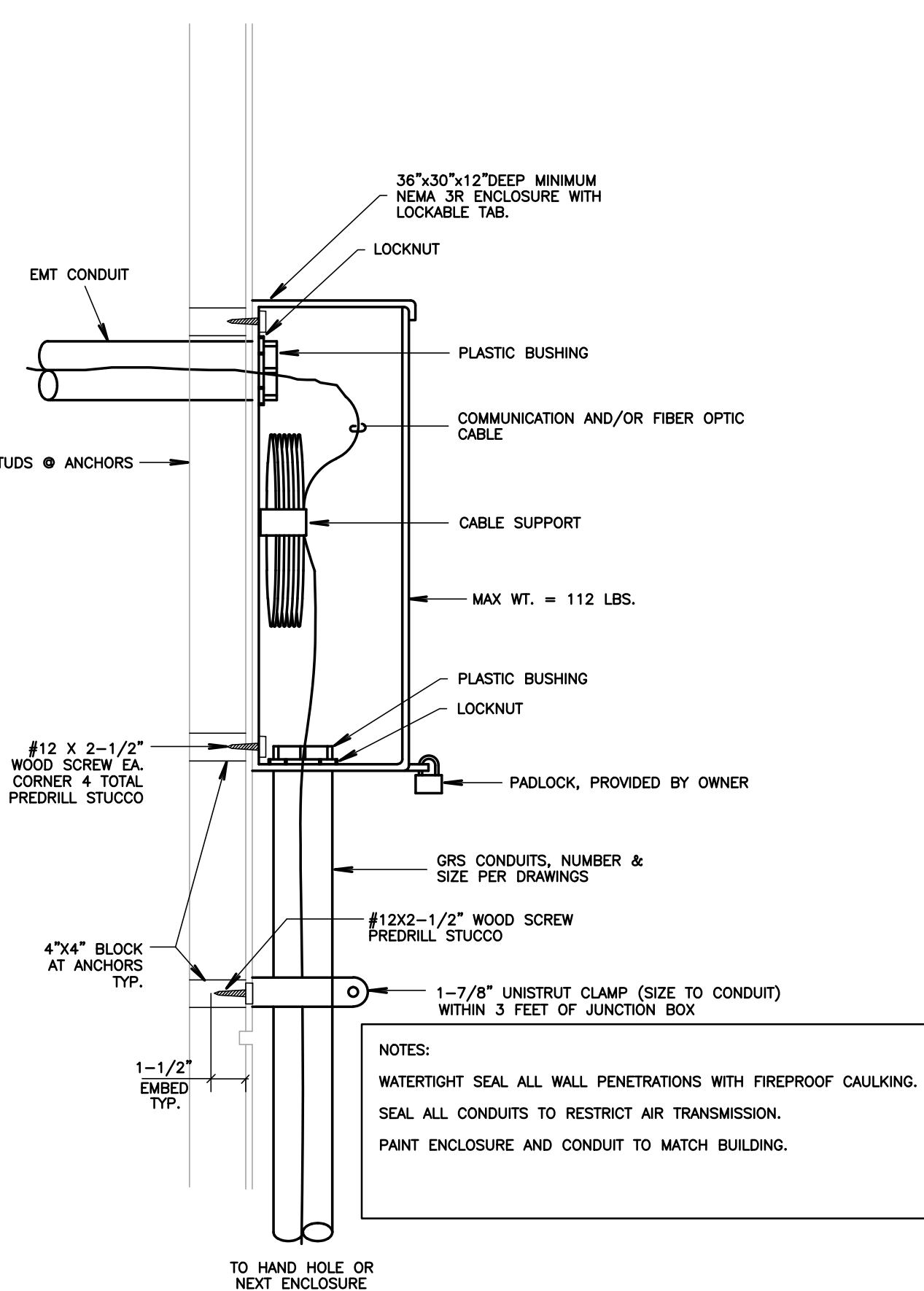
9 CABLE HANGER

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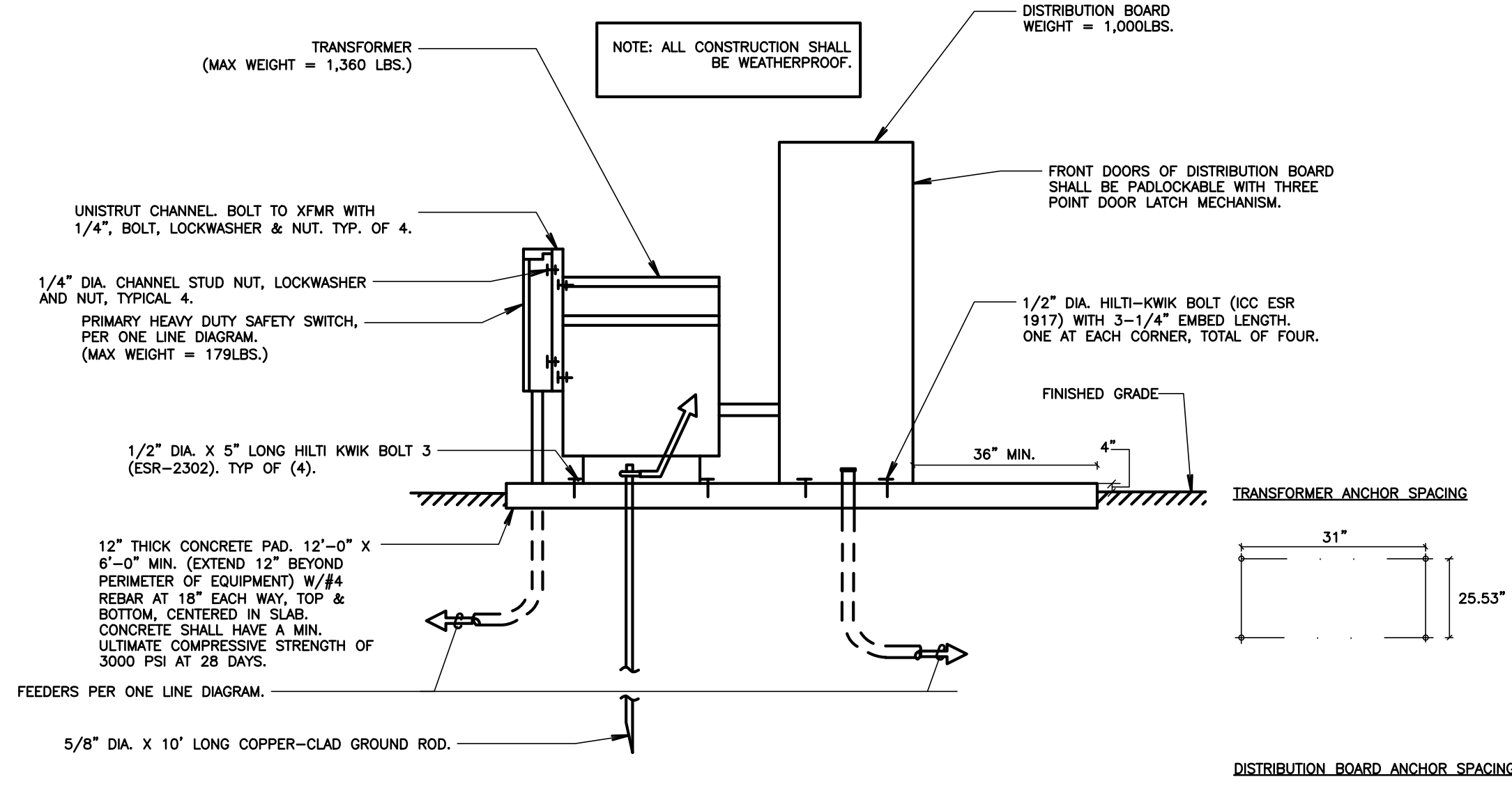
9A STRUCTURE MOUNTED J-HOOK DETAIL

NOT TO SCALE



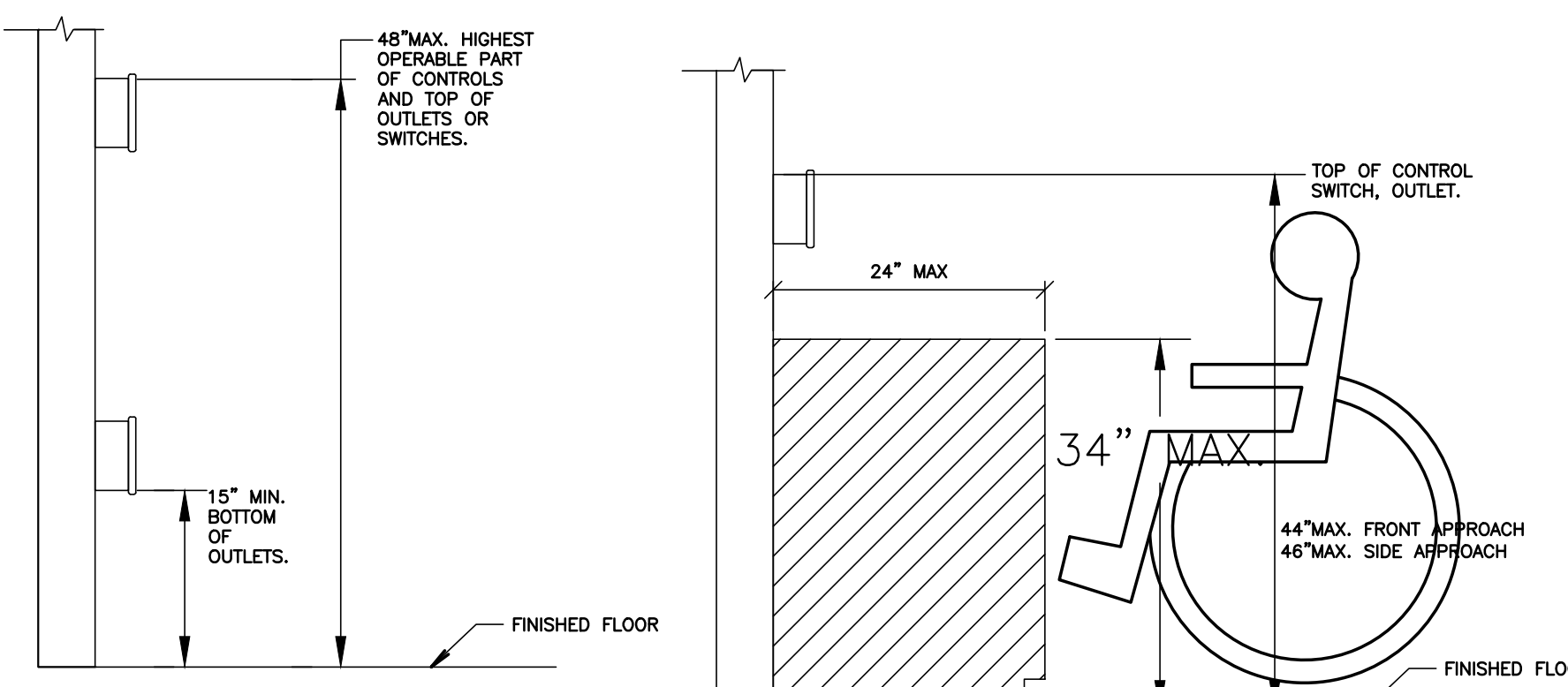
10 COMMUNICATIONS PULL BOX DETAIL

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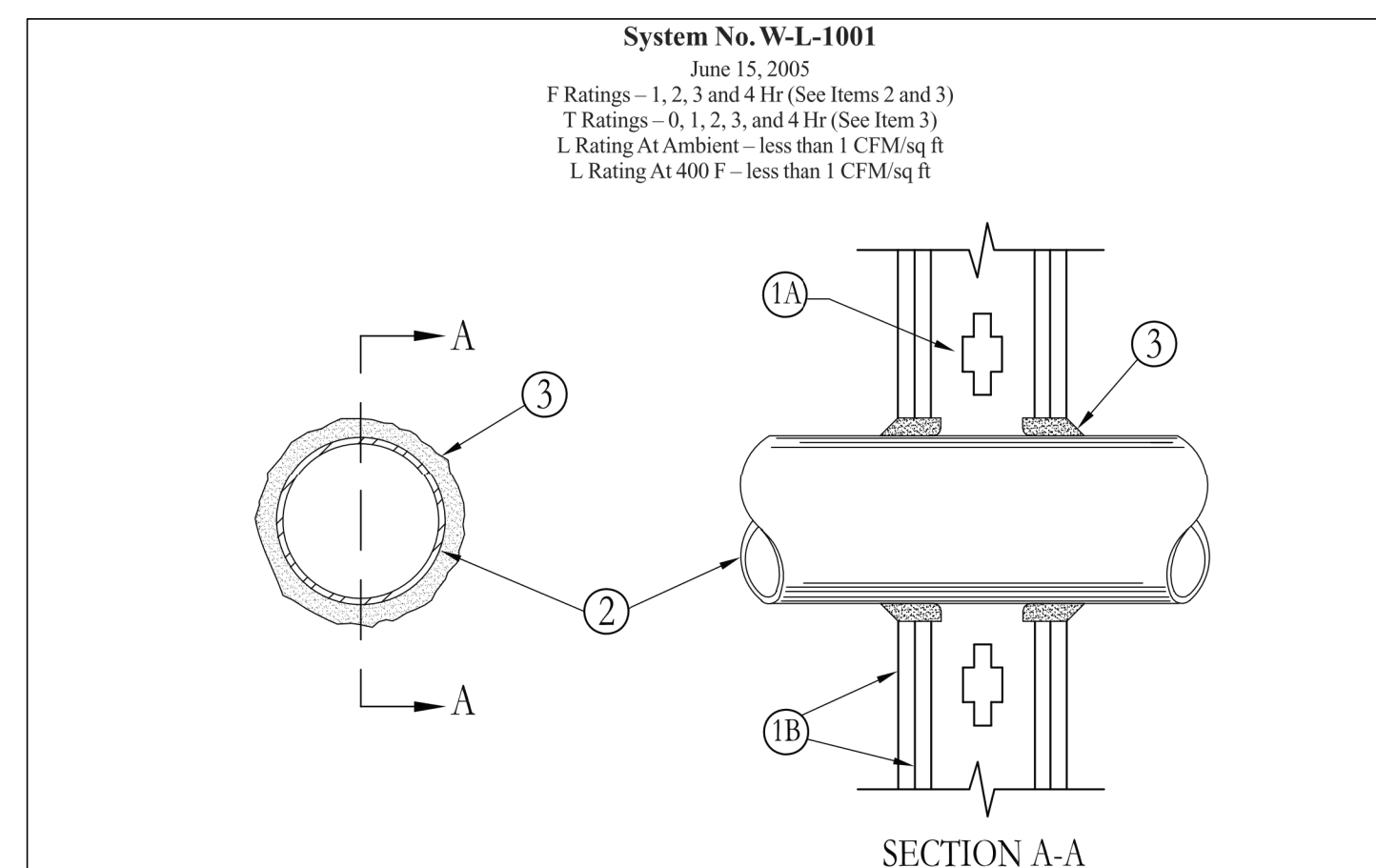
4 TYPICAL TRANSFORMER AND DISTRIBUTION BOARD MOUNTING

NOT TO SCALE



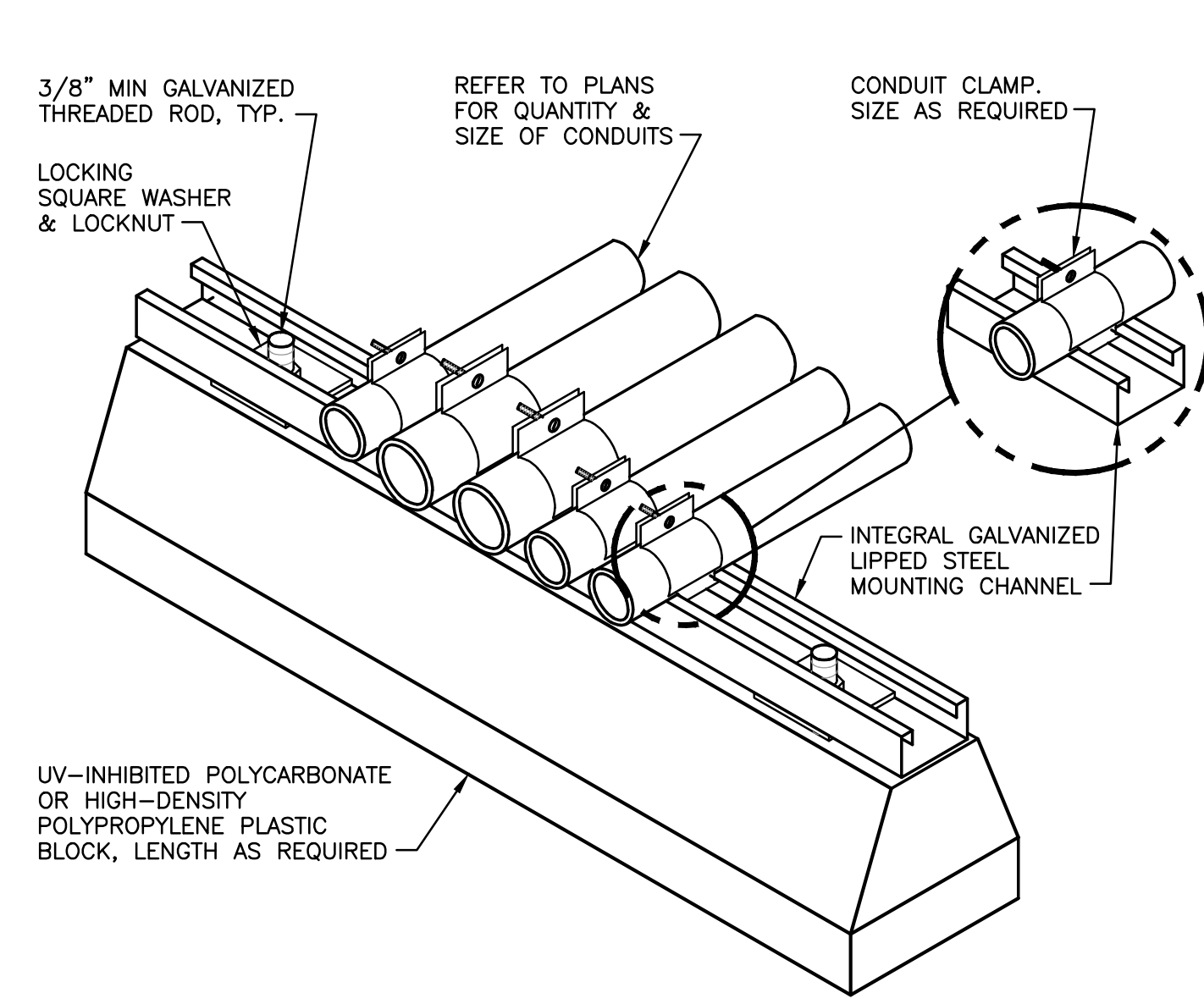
5 MOUNTING HEIGHT OVER OBSTRUCTION

NOT TO SCALE



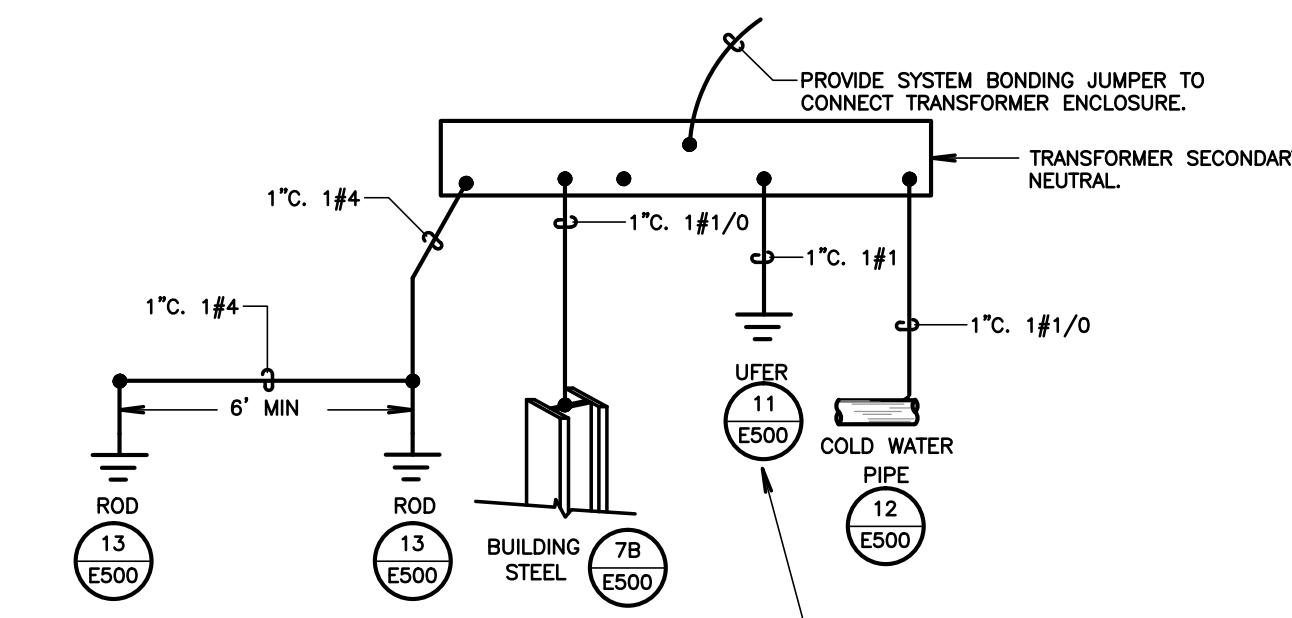
6 TYPICAL THROUGH PENETRATION FIRESTOP

SCALE: NOT TO SCALE



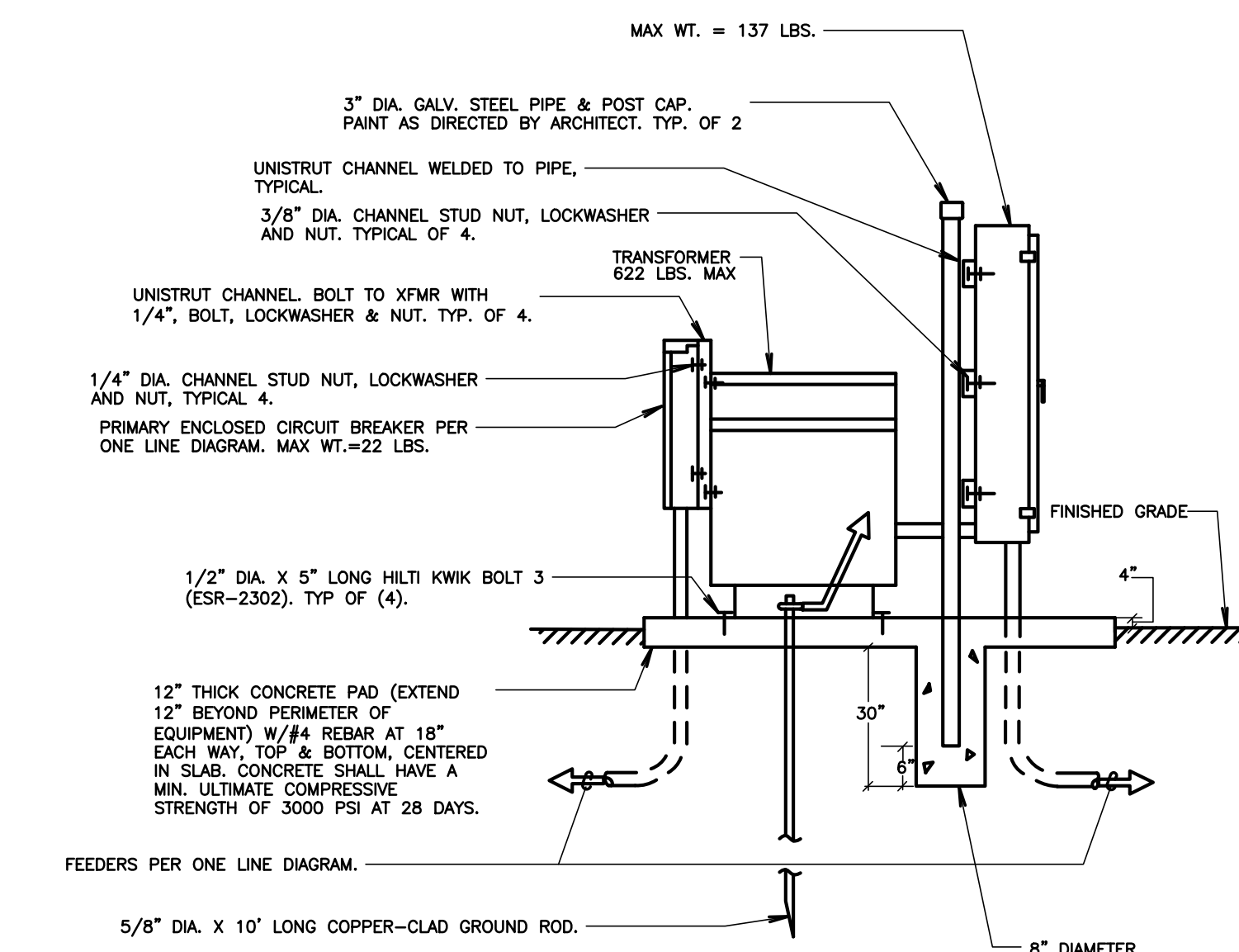
1 ROOF CONDUIT SUPPORT DETAIL

SCALE: NOT TO SCALE



2 SEPARATELY DERIVED SYSTEM GROUNDING & BONDING

SCALE: NOT TO SCALE



3 TYPICAL TRANSFORMER AND PANEL MOUNTING

NOT TO SCALE

- Wall Assembly** - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/steel wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
 - Gypsum Board** - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft (122 cm) wide with square or beveled edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).
- Through Penetration** - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe** - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) electric iron pressure pipe.
 - Conduit** - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
 - Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- Through Penetration Product** - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:
 - Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
 - Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
 - Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

Max Pipe or Conduit Diam In. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0 or 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

6 TYPICAL THROUGH PENETRATION FIRESTOP

SCALE: NOT TO SCALE

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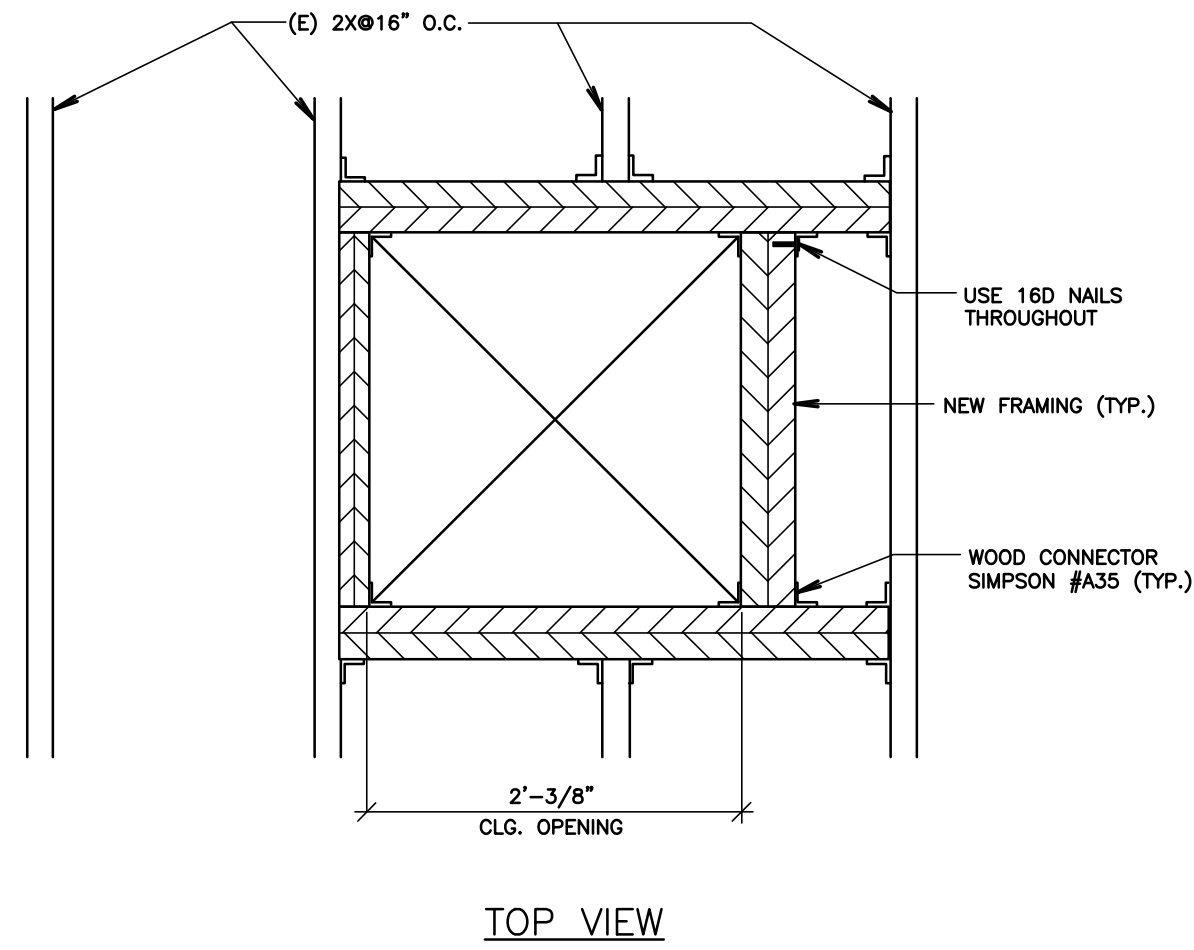
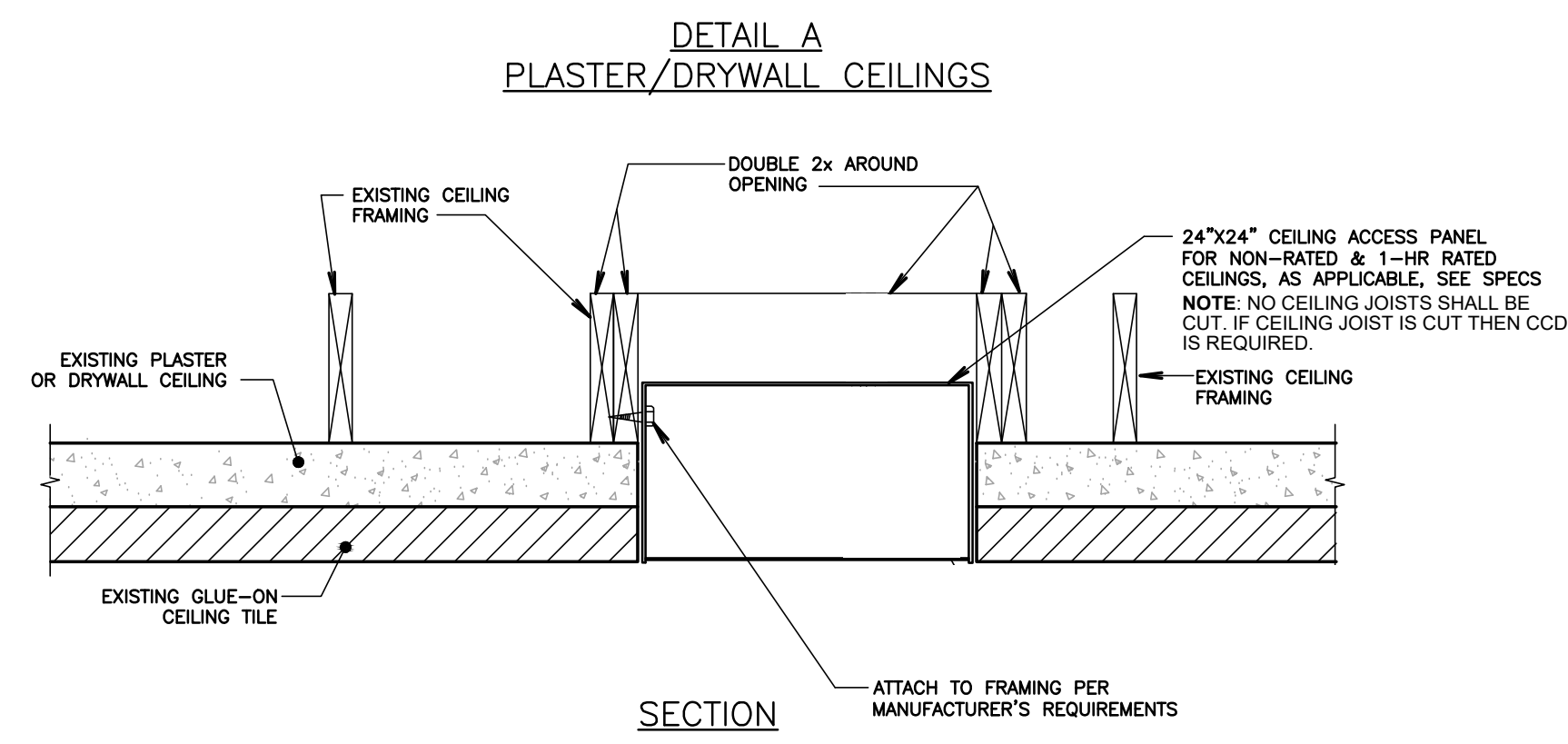
BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS E.S. MODERNIZATION
815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO: NA
PROJECT NO: 19122.01-38
DRAWN BY: VPZ
CHKD BY: DF
ISSUE DATE: 3/18/2020

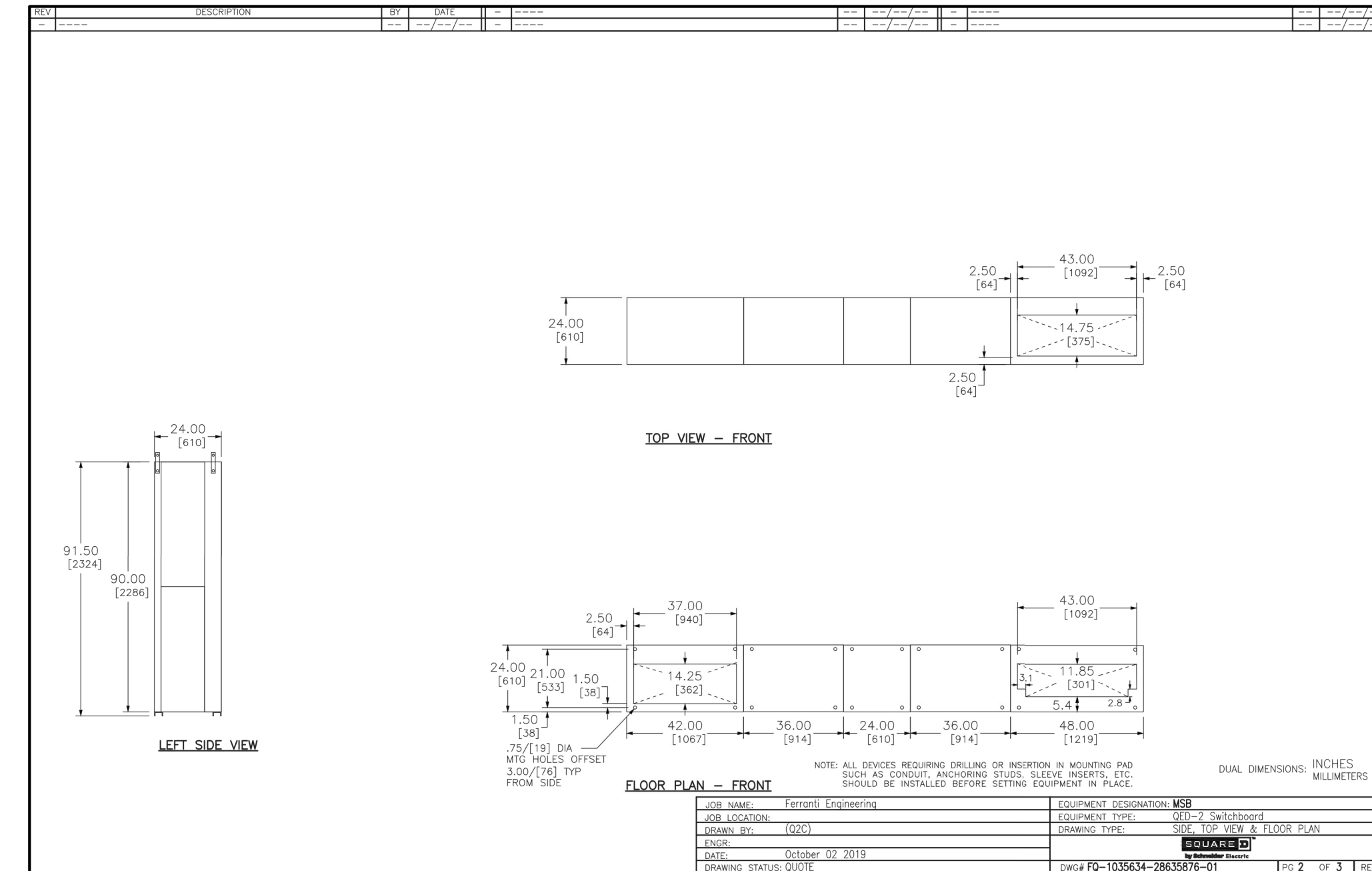
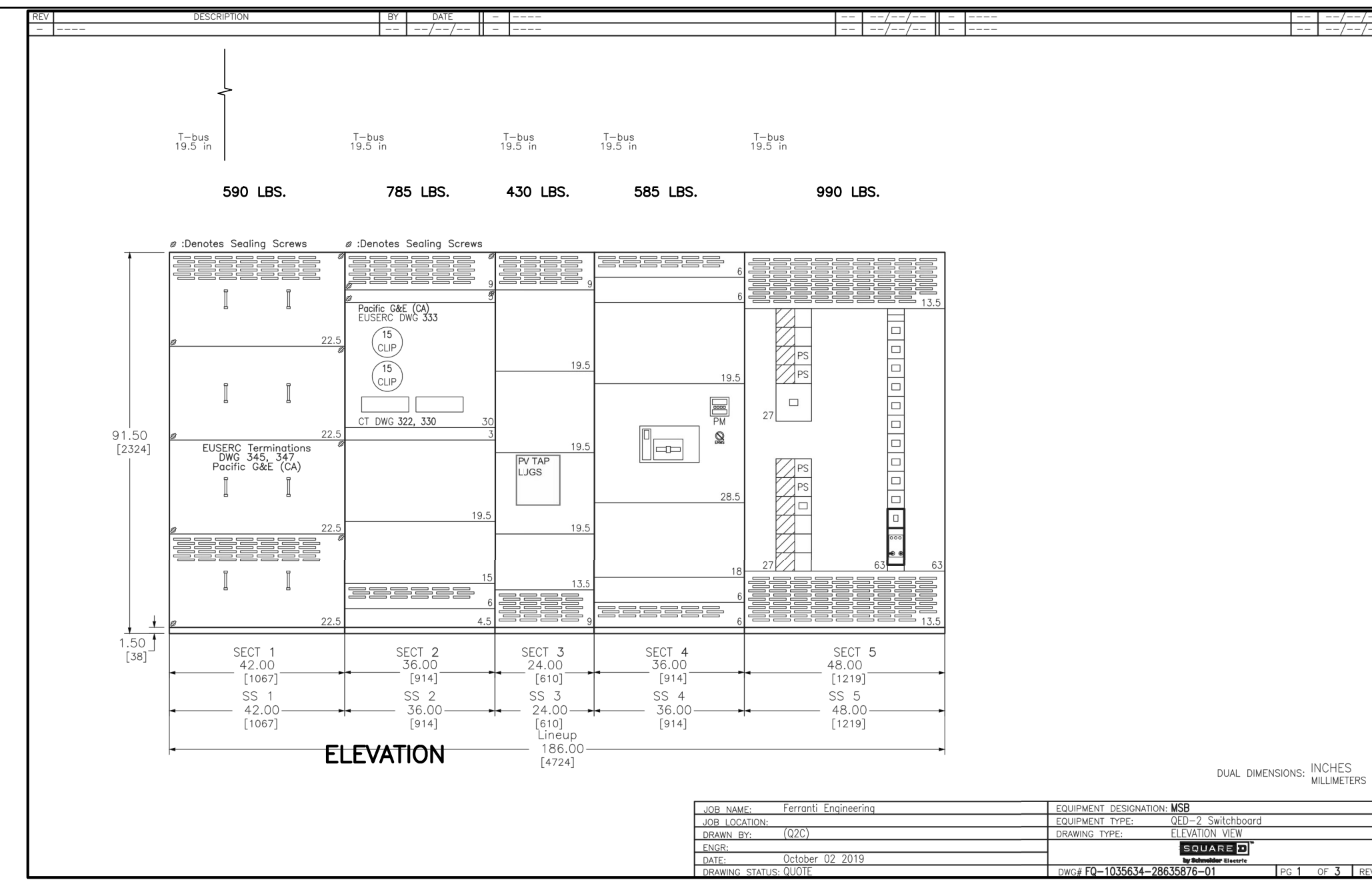
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ELECTRICAL DETAILS SHEET #2

SHEET NUMBER
E501

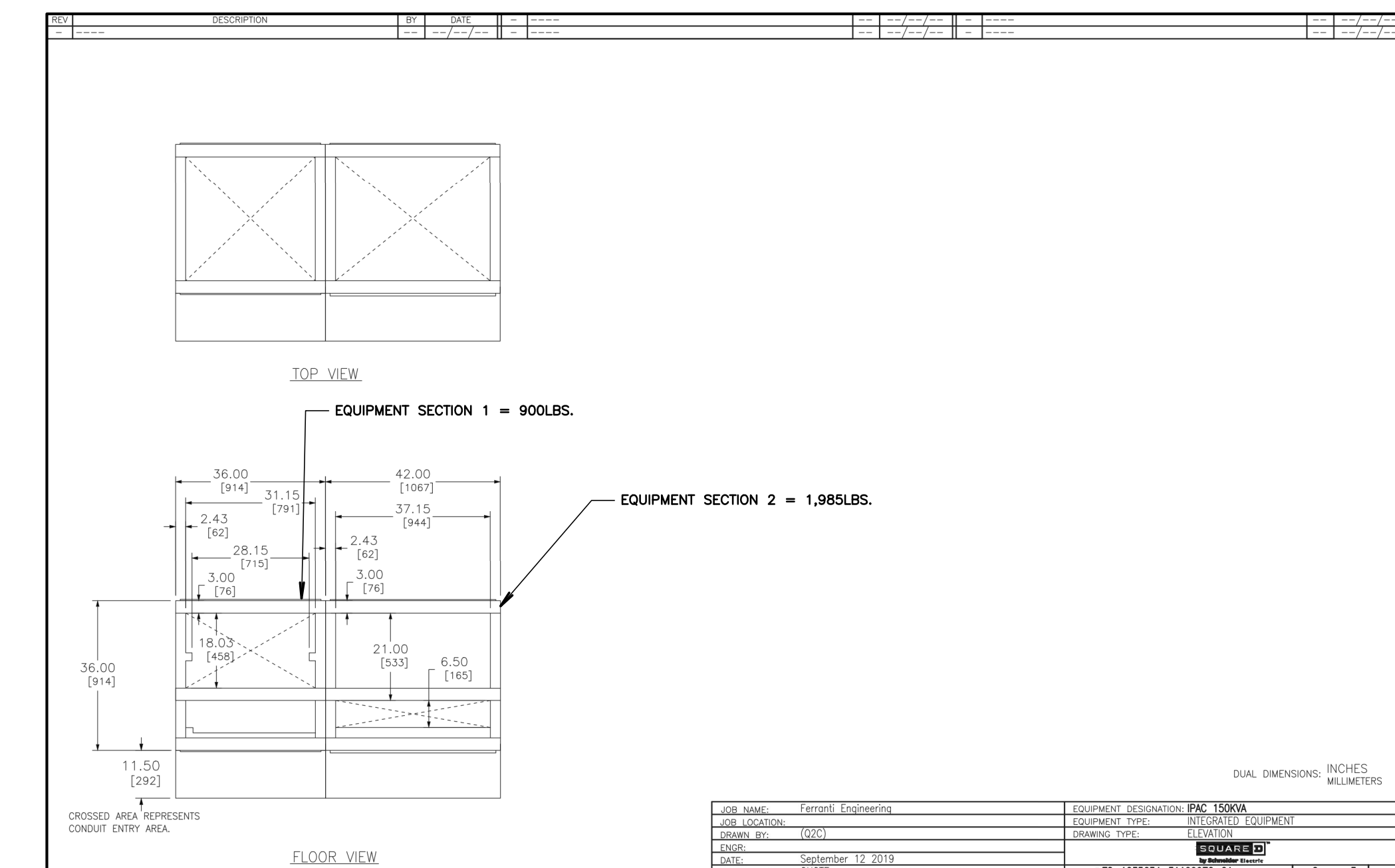
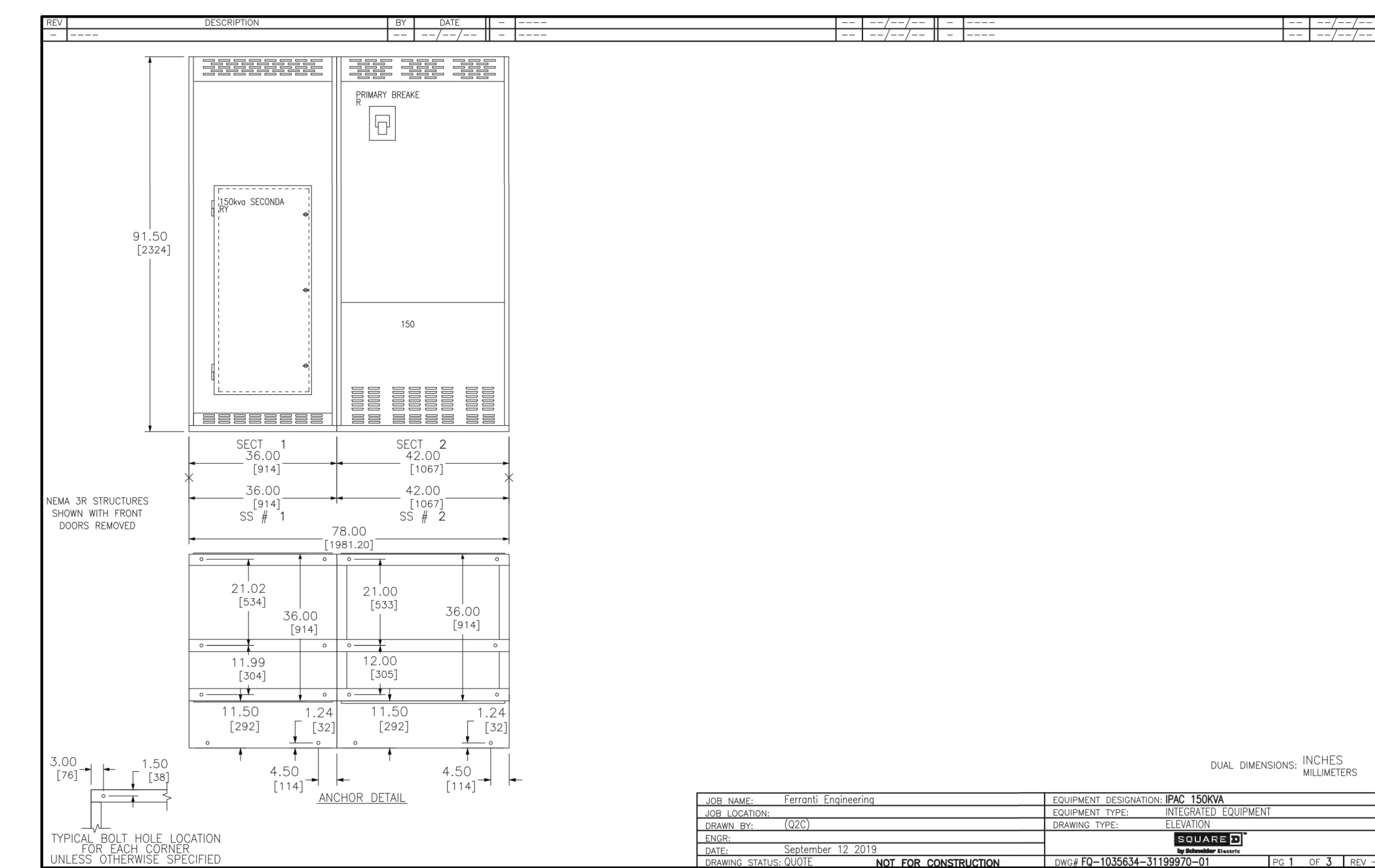


DETAIL B
WOOD FRAMING CEILINGS
NOTE: FRAMING FOR CEILING ACCESS PANELS MAY VARY FOR VARIOUS EXISTING CEILINGS & FRAMING.

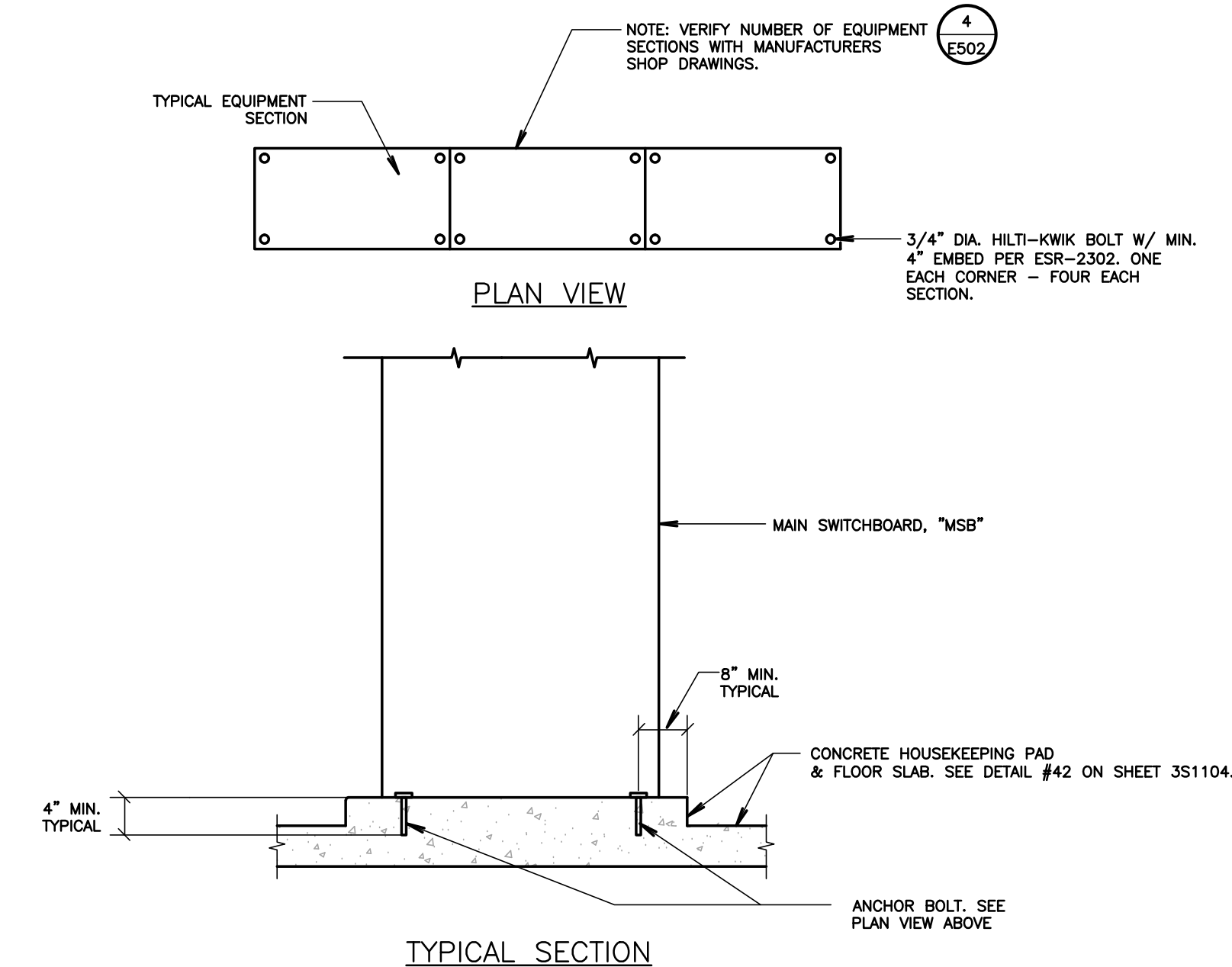
6 TYPICAL CEILING ACCESS PANEL INSTALLATION DETAIL
SCALE: NOT TO SCALE



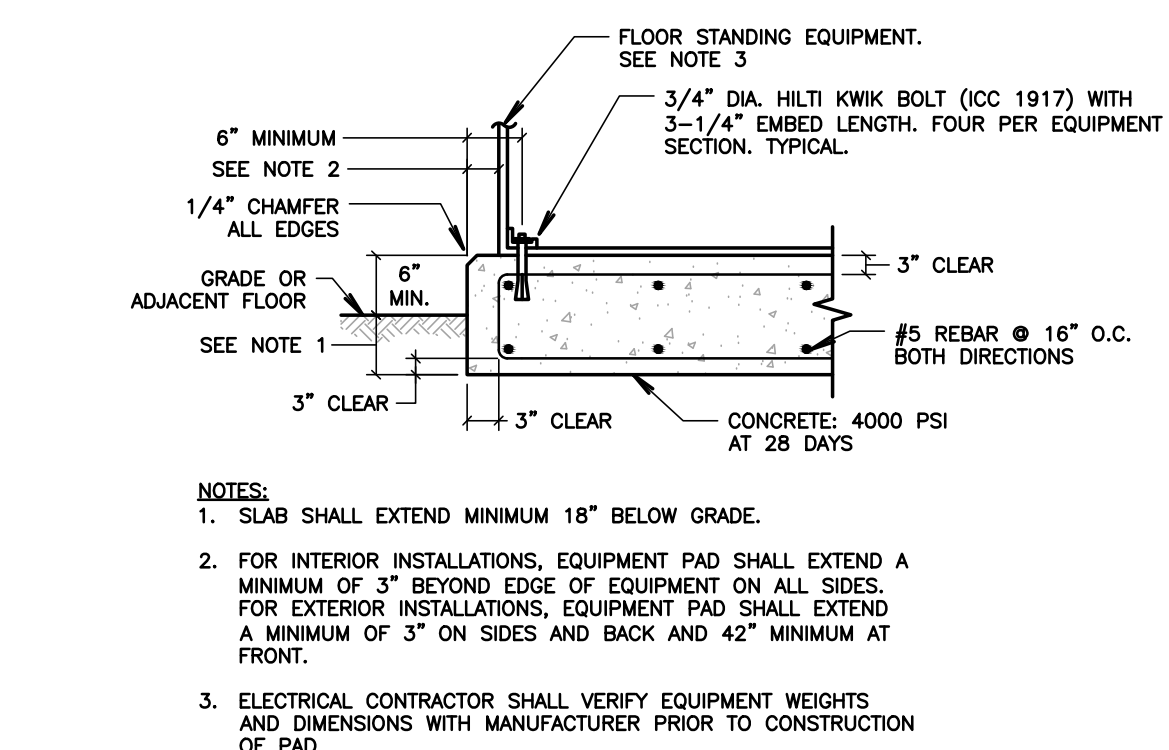
4 TYPICAL MAIN SWITCHBOARD, "MSB"
SHOP DRAWINGS ELEVATION AND PLAN VIEW
SCALE: NOT TO SCALE



1 TYPICAL I-PAC-G
SHOP DRAWINGS ELEVATION AND PLAN VIEW
SCALE: NOT TO SCALE



5 MAIN SWITCHBOARD, "MSB" ANCHORAGE DETAIL
SCALE: NOT TO SCALE



2 I-PAC-G EQUIPMENT PAD DETAIL
SCALE: NOT TO SCALE

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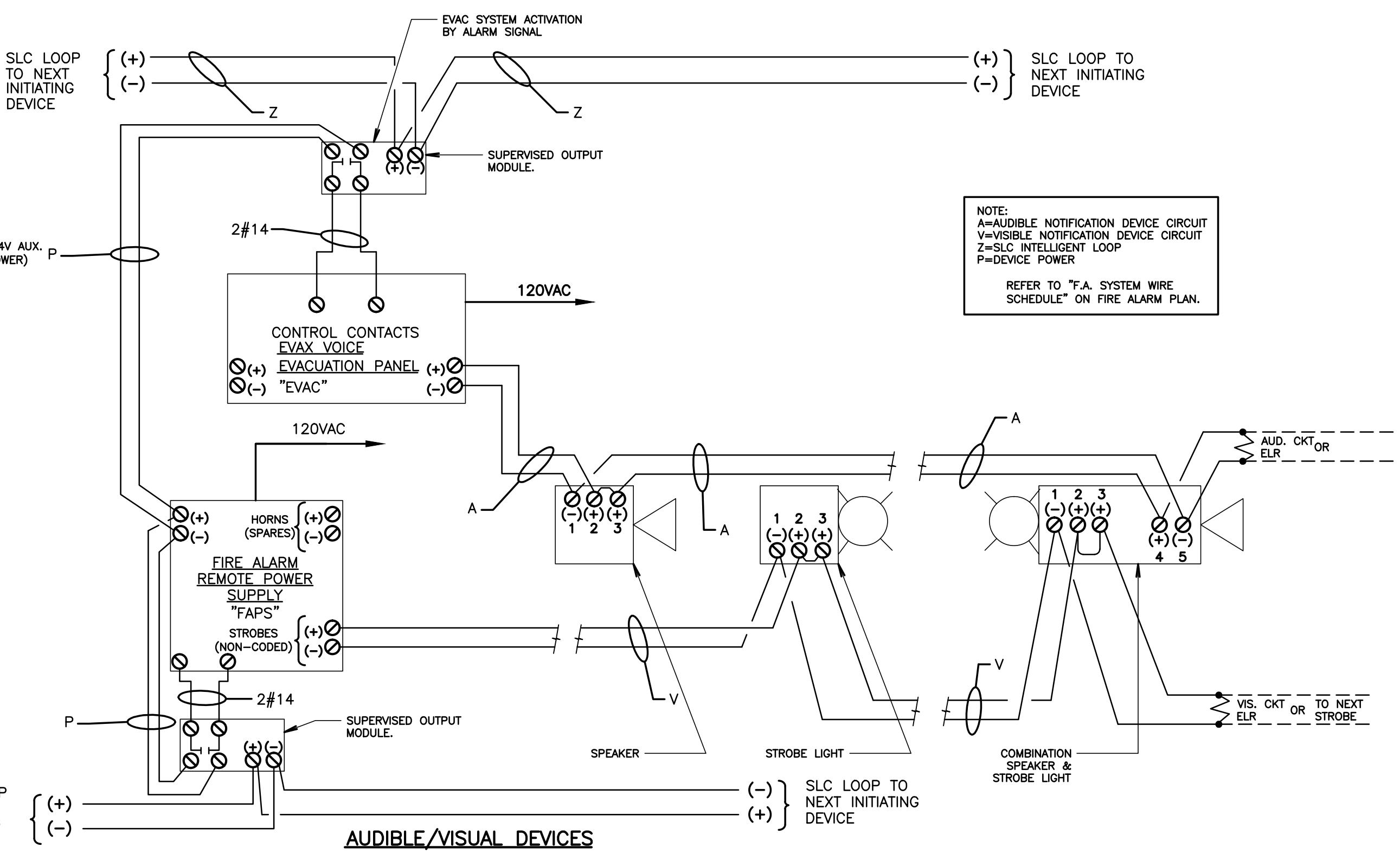
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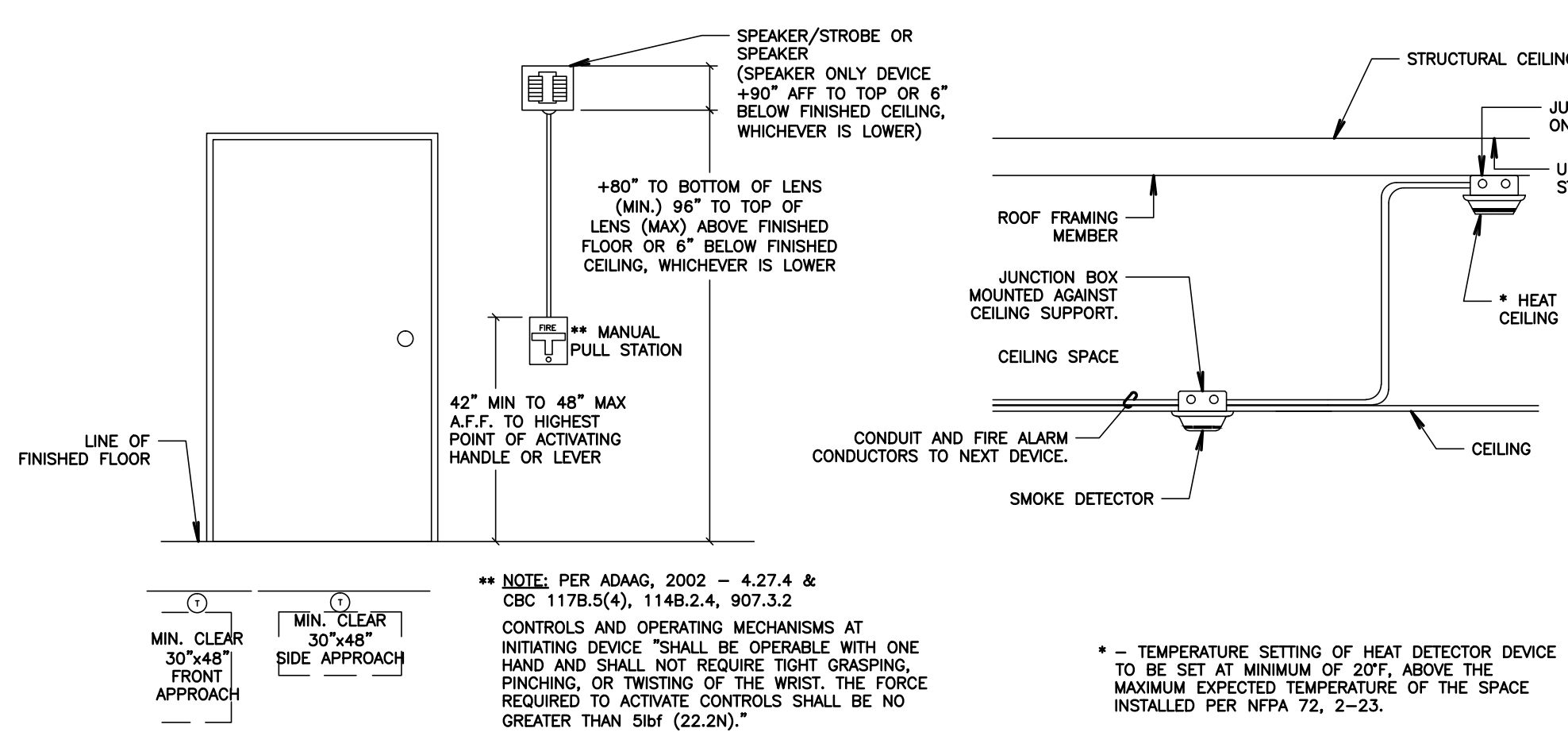
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SHEET #3

SHEET NUMBER

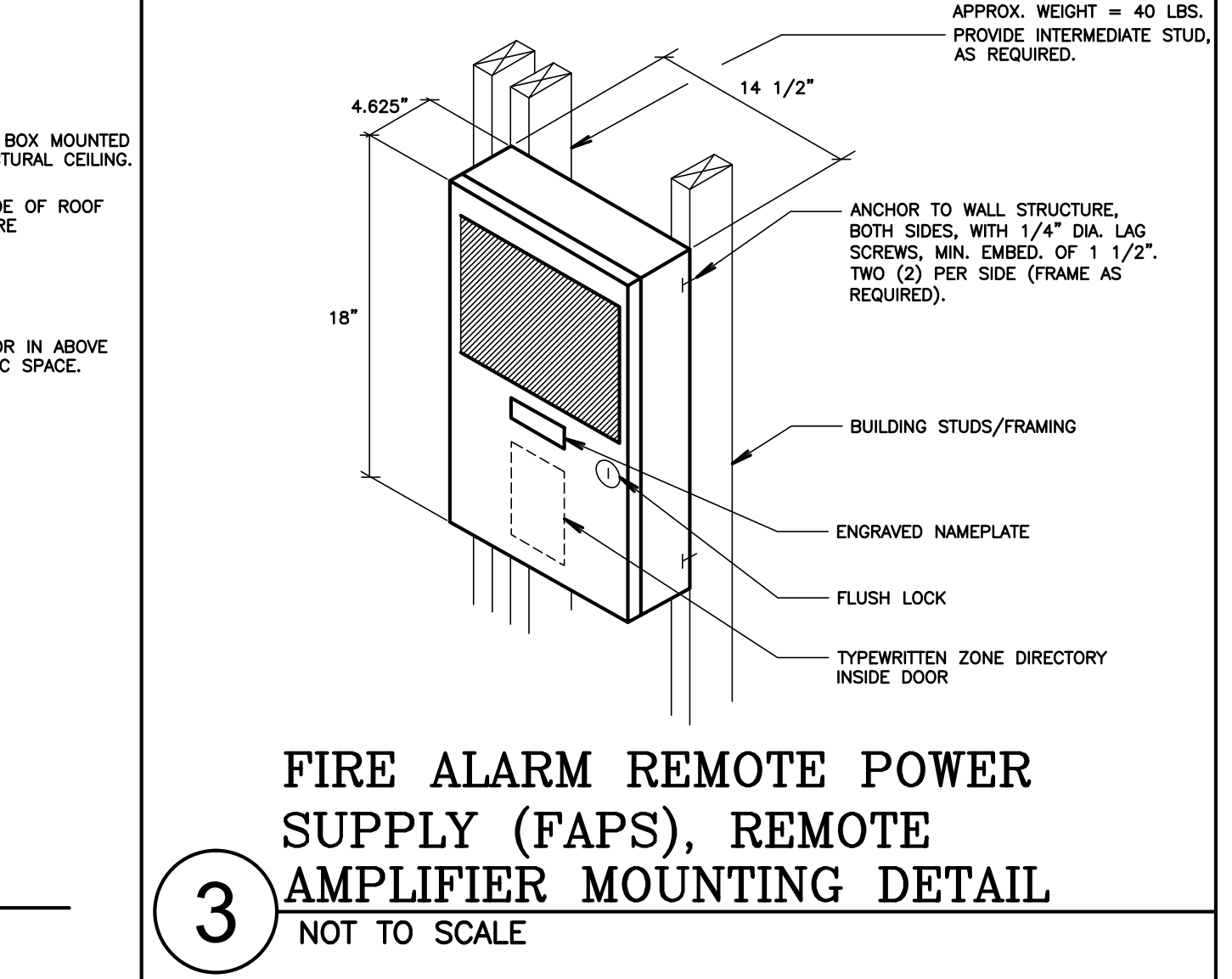
E502



1 TYPICAL DEVICES WIRING DIAGRAMS DETAIL
NOT TO SCALE

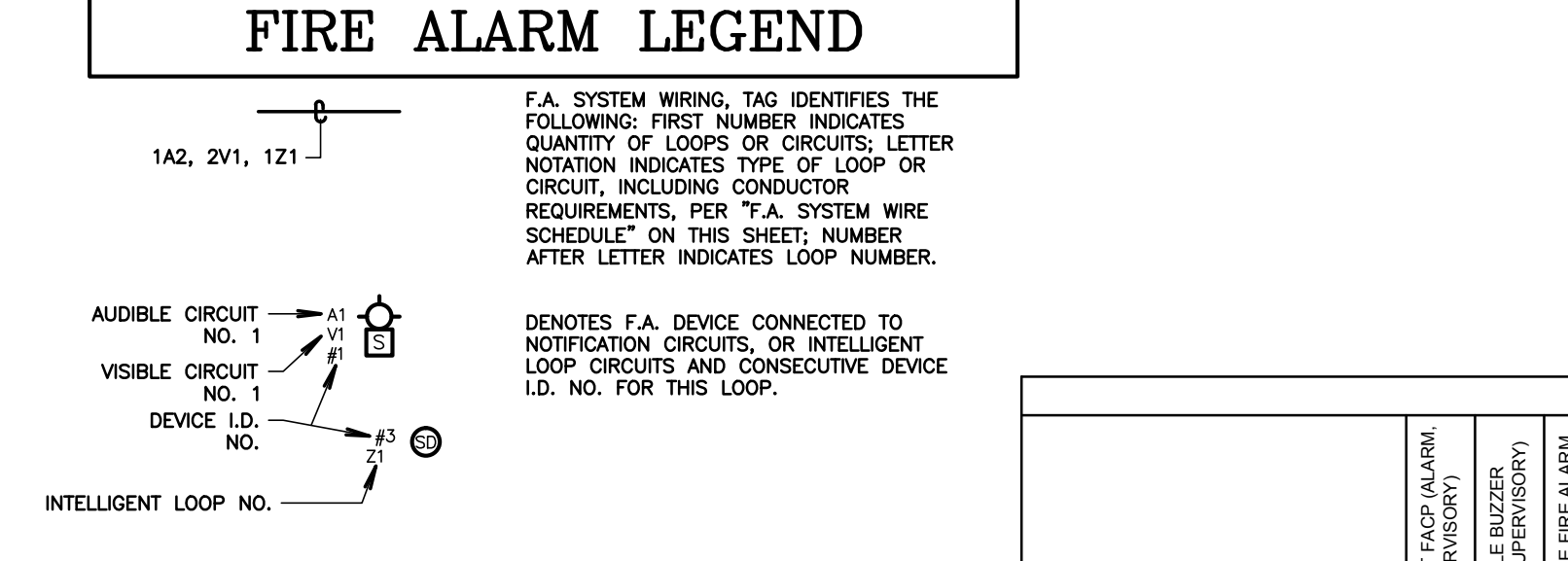


2 TYPICAL FIRE ALARM DEVICE MOUNTING DETAILS
SCALE: NOT TO SCALE

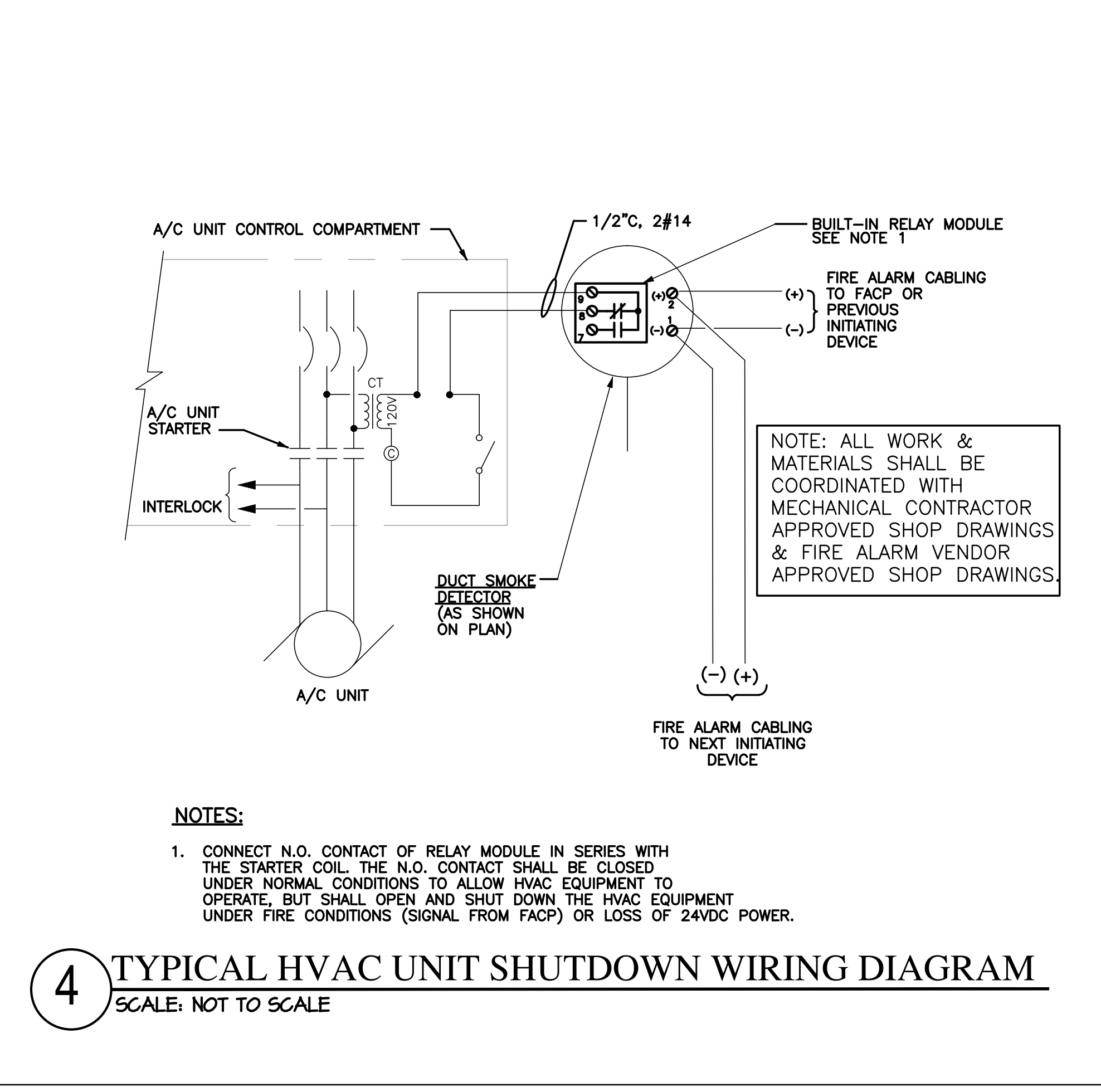


3 FIRE ALARM REMOTE POWER SUPPLY (FAPS), REMOTE AMPLIFIER MOUNTING DETAIL
NOT TO SCALE

F.A. SYSTEM WIRE SCHEDULE				
TAG	CONDUCTORS	DEVICE/FUNCTION	INTERIOR INSTALLATION	EXTERIOR INSTALLATION
V	2#12, THWN/THHN	VISIBLE NOTIFICATION DEVICES-STROBE LIGHTS	MIN. 3/4" CONDUIT	MIN. 1" CONDUIT
Z	1-PAIR #16 TWISTED, SHIELDED PAIR WEST PENN ACC234 (BLDG. EXTERIOR & UNDERGROUND)	CAMPUS/BLDG. SLC INTELLIGENT LOOP INITIATING DEVICES (PULL STATIONS, SMOKE AND HEAT DETECTORS, WATER FLOW AND TAMPER SWITCHES, MONITOR AND CONTROL MODULES, ETC.)	MIN. 3/4" CONDUIT	MIN. 1" CONDUIT
P	2#14, THWN/THHN	DEVICE POWER-24VDC	MIN. 3/4" CONDUIT	MIN. 1" CONDUIT
A	1-PAIR #16 TWISTED SHIELDED PAIR, WEST PENN ACC234 (BLDG. EXTERIOR & UNDERGROUND) 1-PAIR #16 TWISTED SHIELDED PAIR, WEST PENN 991. (BLDG. INTERIOR)	AUDIBLE NOTIFICATION DEVICES-SPEAKERS	MIN. 3/4" CONDUIT	MIN. 1" CONDUIT



SEQUENCE OF OPERATIONS												
	A	B	C	D	E	F	G	H	I	J	K	L
1	MANUAL PULL STATIONS	•	•	•	•	•	•	•	•	•	•	•
2	SMOKE DETECTORS	•	•	•	•	•	•	•	•	•	•	•
3	FIRE ALARM SYSTEM AC POWER FAIL	•	•	•	•	•	•	•	•	•	•	•
4	FIRE ALARM SYSTEM LOW BATTERY	•	•	•	•	•	•	•	•	•	•	•
5	OPEN CIRCUIT	•	•	•	•	•	•	•	•	•	•	•
6	GROUND FAULT	•	•	•	•	•	•	•	•	•	•	•
8	HEAT DETECTORS	•	•	•	•	•	•	•	•	•	•	•
9	NOTIFICATION CIRCUIT SHORT	•	•	•	•	•	•	•	•	•	•	•
10												



4 TYPICAL HVAC UNIT SHUTDOWN WIRING DIAGRAM
SCALE: NOT TO SCALE

GENERAL NOTES

- SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR GRILLES.
- FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72, FIGURE 14.8.2.4 AND READ OUT VERIFICATION FORM FROM CENTRAL STATION. TEST SHALL ALSO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.H.A.).
- UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS (C.E.C. 110.11 AND 300.8).
- AUDIBLE DEVICES(S) SHALL BE AT LEAST 15DBA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75DBA AT 10' OR MORE THAN 110 dBA IN TOTAL THROUGHOUT (NFPA 72 18.4.1 AND C.F.C. 907.6.2).
- AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN, CODE 3.
- VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND. (NFPA 72 18.5.2.1).
- PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE U.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM POWER EXPANDER PANEL. WRITE LETTERS ON A RED BACKGROUND.
- PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
- MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION (NFPA 72 18.5.4.3.2(4)).
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.9).
- THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
- DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED BUILDING WALLS.
- ALL JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
- FIRE ALARM WIRES SHALL BE COPPER TYPE THWN/THHN.
- ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
- WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
- JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED.
- ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED.

NOTES (FIRE ALARM EQUIPMENT SPECIFICATIONS SCHEDULE)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

- END OF LINE RESISTORS SHALL BE 10K FOR NOTIFICATION APPLIANCE CIRCUITS FEEDING FROM FIRE ALARM CONTROL PANEL AND 2.2K FOR NOTIFICATION APPLIANCE CIRCUITS FEEDING FROM FIRE ALARM POWER EXPANDER PANELS.
- SET FOR 194 DEGREES.
- THIS EQUIPMENT IS EXISTING. REFER TO FIRE ALARM RISER DIAGRAM.
- PROVIDE TRIM RING, #TRC-2

MAIN FACP (FACP)	
DESCRIPTION	WATTAGE
A1	ZERO (SPARE)
A2	18.25W
A3	19.5W
A4	18.25W
TOTAL = 56W USED	
AMPLIFIER = 75W	

REMOTE AMPLIFIER (R75)	
DESCRIPTION	WATTAGE
A1	18W
A2	14W
A3	12.5W
A4	18W
TOTAL = 62.5W USED	
AMPLIFIER = 75W	

FIRE ALARM EQUIPMENT SPECIFICATIONS SCHEDULE							
SYMBOL	MODEL NO	DESCRIPTION	MANUFACTURER	CSFM LISTING #	BACKBOX REQUIREMENTS	MOUNTING HEIGHT (TO CENTER U.O.N.)	REMARKS
1200	NFS2-3030 UDACT-2 DVC-EM DVC-KD CMIC-1 DAA2-7525 ACP5-610 SSB-D4IR DR-D4R	EXISTING FIRE ALARM CONTROL PANEL	NOTIFIER	7165-0028-0224	EQUIPMENT CABINET	+60"	
1200	ACPS-610 CAB-PS1	FIRE ALARM REMOTE POWER SUPPLY	NOTIFIER	7315-0028-0248	EQUIPMENT CABINET	+60"	
1200	FSP-951	ADDRESSABLE SMOKE DETECTOR	NOTIFIER	7272-0028-0503	4" SQ. X 2 1/8" DP. OUTLET BOX WITH S.G. RAISED RING		
1200	FST-951H	ADDRESSABLE HEAT DETECTOR	NOTIFIER	7270-0028-0502	4" SQ. X 2 1/8" DP. OUTLET BOX WITH S.G. RAISED RING		2
1200	DNRW FSP-951	DUCT SMOKE DETECTOR, DETECTOR HOUSING & ADDRESSABLE SMOKE DETECTOR	NOTIFIER	3242-1653-0209 7272-0028-0503			
1200	FCO-951	MULTI-CRITERIA FIRE/CO DETECTOR	NOTIFIER	7272-0028-0510	4" SQ. X 2 1/8" DP. OUTLET BOX WITH S.G. RAISED RING		
1200	SPRK(A)	OUTDOOR WALL MOUNT SPEAKER	SYSTEM SENSOR	7320-1653-0201	MW(BB(A) OUTDOOR BACKBOX		
1200	SPSRL(A)	WALL MOUNTED COMBINATION SPEAKER & STROBE LIGHT (CANDELA VALUE AS SHOWN ON PLANS)	SYSTEM SENSOR	7320-1653-0505	4" SQ. X 2 1/8" DP. OUTLET BOX		
1200	FRM-1	ADDRESSABLE RELAY MODULE	NOTIFIER	7300-0028-0219			4
1200		END OF LINE RESISTOR			4" SQ. X 2 1/8" DP. OUTLET BOX		3
1200	VEP-A00-1P	INTELLIGENT VESDA-E VEP SERIES ASPIRATION DETECTORS	NOTIFIER	7259-1728-0502		+60"	
1200	HP400ULX	VESDA SYSTEM POWER SUPPLY	HONEYWELL	7300-1637-101		+60"	
1200	DS-RFM	FIBER OPTION MODULE FOR MULTI-MODE FIBER	NOTIFIER	7165-0028-0224	LOCATE IN EXISTING FIRE ALARM CONTROL PANEL		
1200	DAA2-7525 ACP5-610 DS-RFM	FIRE ALARM REMOTE AMPLIFIER & POWER SUPPLY (75W AMPLIFIER)	NOTIFIER	7165-0028-0224 7315-0028-0248	EQBB-C4 (BACKBOX) EQDR-C4 (DOOR)	+60"	
1200	SPSCL(A)	CEILING MOUNTED COMBINATION SPEAKER & STROBE LIGHT (CANDELA VALUE AS SHOWN ON PLANS)	SYSTEM SENSOR	7320-1653-0505	4" SQ. X 2 1/8" DP. OUTLET BOX		

A2019332 Owen's Primary School		
Qty	Item Description	Part Numbers
2	VESDA-E VEP with LED's, 1 pipe. Requires external 24VDC Power Supply.	VEP-A00-1P
2	VESDA Power Supply Unit	VPS-300US-120
4	Battery, 12VDC, 12 amp/hour	VBT-012
1	VESDA pipe: 15' lengths of CPVC Pipe with 0.874 ID / 1.05 OD. Box quantity of 420 linear feet (28 pieces)	VP-P-420
1	Socket Union, 3/4" CPVC Union, Box of 10	VP-COUP
1	Elbow - 90 Degree, 3/4" Socket to Socket, 90 degree CPVC Elbow, Box of 20	VP-ELB-90
1	Pipe Tees, 3/4" CPVC Pipe Tees, Box of 15	VP-TEE
1	End Cap, 3/4" CPVC, Box of 25	VP-EC
1	Solvent Cement, One (1) Pint	VP-CEMENT
2	VESDA-E Filter	VSP-962
1	Sampling Point Decal, wrap around style (Roll 200)	E700 - SP - DCL
1	CPVC Pipe Cutters. Cuts up to 1 1/2" pipe.	VP-CUTTERS

5 VESDA-E VEP SERIES EQUIPMENT LIST
NOT TO SCALE

CODE, RULES & REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES, NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSIDERED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES, WHERE WORK OF A HIGHER GRADE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.

FIRE ALARM LEVEL OF AUDIBILITY

ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNRESTRICTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15db ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR NOISE BUILDING.

AMBIENT NOISE LEVELS SHALL BE CONSIDERED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS.

THE FIRE ALARM SIGNAL SHALL COMPLY WITH THE CALIFORNIA ELECTRICAL CODE, SECTIONS 32000 AND 32004, AND A TEMPORAL PATTERN, CODE 3.

FIRE ALARM SYSTEM INSTALLATION NOTES

ALL DRAWINGS ARE DIAGNOSTIC ONLY, AND SHALL NOT BE USED IN DETERMINING ACTUAL CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY ALL CONDUIT ROUTING CONDITIONS AT THE PROJECT SITE AS CONSTRUCTION PROGRESSES.

ALL FIRE ALARM DATA COMMUNICATIONS AND INITIATING CIRCUITS SHALL BE INSTALLED UTILIZING SOLID COPPER CONDUCTORS WITH OUTER COATING COLORS PER THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS. ALL SMOKE DRYER AND REMOTE INDICATOR CIRCUITS SHALL BE YELLOW. ALL CIRCUITS SHALL BE INDIVIDUALLY LABELED, BOTH AT THE DEVICE END AND AT THE SIGNAL TERMINAL CABINET AND/OR FIRE ALARM MASTER PANEL TERMINATION POINT.

ALL FIRE ALARM CIRCUITS SHALL BE CONTINUOUS FROM DEVICE TO DEVICE. SPLICES ARE NOT ALLOWED UNLESS IN COVERED JUNCTION BOXES ON APPROVED TERMINAL BLOCKS. TAPPING IS ALLOWED ONLY UNDER THESE CONDITIONS.

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER USER OR USER BY UNDERWRITERS LABORATORY OF SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL, RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

COMPLETE AUTOMATIC FIRE ALARM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA, UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

SCHOOLS FIRE ALARM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE, SECTION 907.2.3; CALIFORNIA ELECTRICAL CODE, ARTICLE 760 AND CALIFORNIA FIRE CODE, CHAPTER 9, SECTION 907.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION, NFPA 72 IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

FIRE ALARM SYSTEM CERTIFICATION AND DESCRIPTION SHALL BE PROVIDED FOR TESTING AND A PLASTIC LAMINATED COPY SHALL REMAIN WITH INSTRUCTIONS AT THE FIRE ALARM CONTROL PANEL PER NFPA 72.

THE FIRE ALARM "RECORD OF COMPLETION" FORM, FIGURE 10, 18, 2, 1 IN NFPA 72, SHALL BE COMPLETED, SIGNED AND SUBMITTED TO THE SCHOOL DISTRICT AND THE LOCAL AUTHORITY (C.F.C.5) HAVING JURISDICTION AT THE COMPLETION OF THE TEST.

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PROJECT NO: 19122 01-38
DRAWN BY: VPZ
CHKD BY: DF
ISSUE DATE: 1/28/2020

SHEET TITLE
FIRE ALARM EQUIPMENT LIST, FIRE ALARM NOTES, FIRE ALARM DETAILS, WIRING DIAGRAMS

SHEET NUMBER
E600

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS table with columns for Power Supply #, Located In, Loop Type & No., and various wire size and voltage drop parameters.

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS table with columns for Power Supply #, Located In, Loop Type & No., and various wire size and voltage drop parameters.

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS table with columns for Power Supply #, Located In, Loop Type & No., and various wire size and voltage drop parameters.

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS table with columns for Power Supply #, Located In, Loop Type & No., and various wire size and voltage drop parameters.

BCSD OWENS PRIMARY() "DPM-K" POWER & BATTERY CALCULATION table with columns for Device, Panel, and Facp.

OWENS PRIMARY "FACP" POWER & BATTERY CALCULATION table with columns for Device, Panel, and Facp.

Application Drawing APP-02 0102R2 Field Wiring Guidelines. Contains sections for Wire Type, Wire Gauge, and a table of typical wire lengths for specific wire gauge and speaker load.

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS table with columns for Power Supply #, Located In, Loop Type & No., and various wire size and voltage drop parameters.

BCSD OWENS PRIMARY() "DPM-J" POWER & BATTERY CALCULATION table with columns for Device, Panel, and Facp.

BCSD OWENS PRIMARY() "DPM-FACP" POWER & BATTERY CALCULATION table with columns for Device, Panel, and Facp.

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS table with columns for Power Supply #, Located In, Loop Type & No., and various wire size and voltage drop parameters.

BCSD OWENS PRIMARY() "DPM-E" POWER & BATTERY CALCULATION table with columns for Device, Panel, and Facp.

BCSD OWENS PRIMARY() "DPM-G" POWER & BATTERY CALCULATION table with columns for Device, Panel, and Facp.

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS table with columns for Power Supply #, Located In, Loop Type & No., and various wire size and voltage drop parameters.

BCSD OWENS PRIMARY() "DPM-F" POWER & BATTERY CALCULATION table with columns for Device, Panel, and Facp.

BCSD OWENS PRIMARY() "R75" POWER & BATTERY CALCULATION table with columns for Device, Panel, and Facp.

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS table with columns for Power Supply #, Located In, Loop Type & No., and various wire size and voltage drop parameters.

BCSD OWENS PRIMARY() VESDA SYSTEM POWER SUPPLY POWER & BATTERY CALCULATION table with columns for Device, Panel, and Facp.

FORMULAS USED FOR CALCULATIONS: FORMULA FOR BATTERY SIZING, FORMULA FOR VOLTAGE DROP CALCULATIONS, and other technical specifications.

Table with columns for Device, Panel, and Facp, likely for another power and battery calculation.

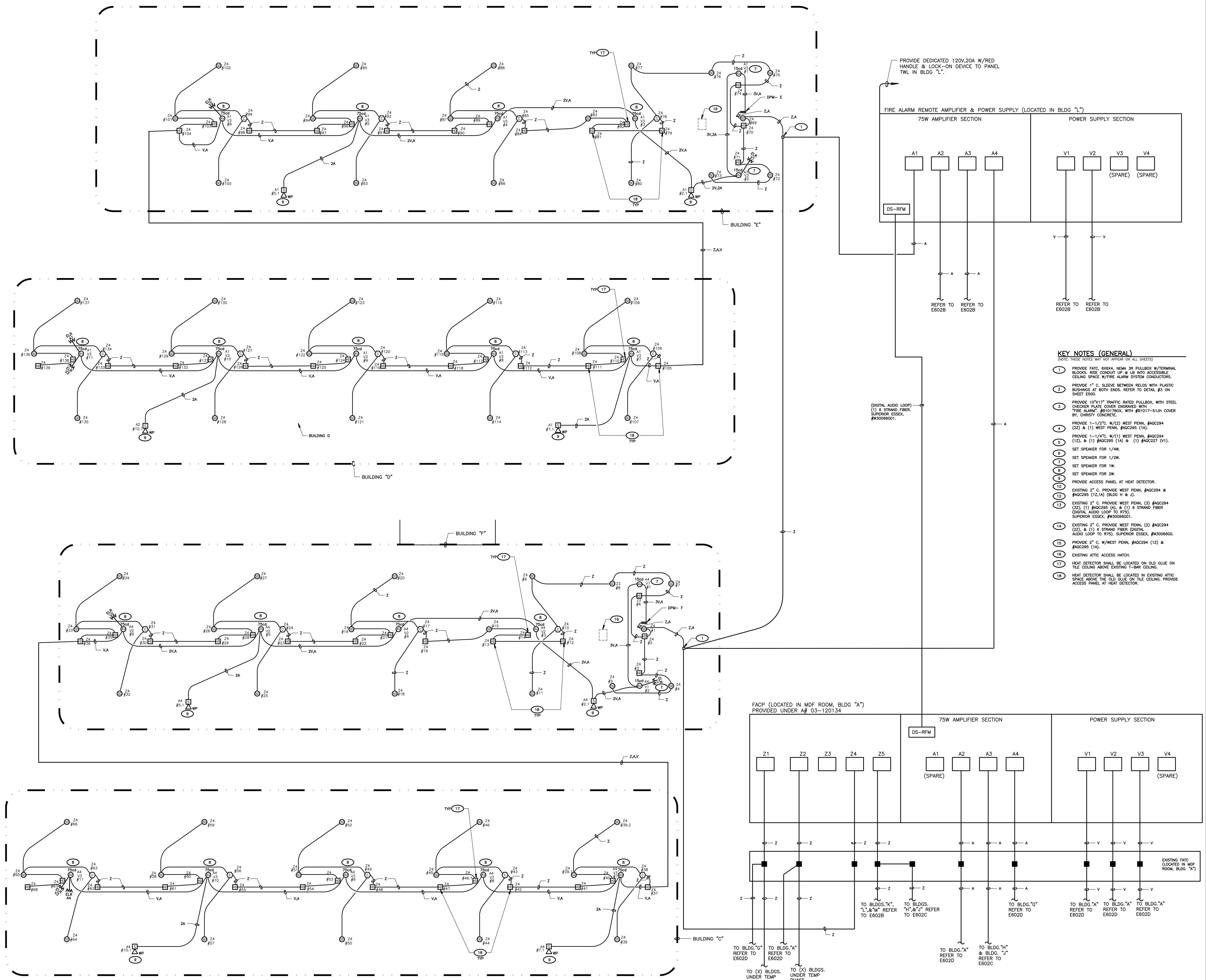
1 SPEAKER CIRCUIT WIRING GUIDELINES NOT TO SCALE. Includes detailed instructions and diagrams for speaker circuit wiring, covering main facp amplifier and r75 amplifier scenarios.

2 SPEAKER CIRCUIT WATTAGE AND CIRCUIT LENGTH INFORMATION NOT TO SCALE. Includes technical specifications for speaker circuit wattage and length.

AGENCY INFORMATION, IDENTIFICATION STAMP, REVISIONS, CONSULTANT (FERRANTI ENGINEERING), PROJECT INFORMATION (BAKERSFIELD CITY SCHOOL DISTRICT), PROJECT NUMBER (OPSC or OSHPD PROJ. NO: NA), and SHEET TITLE (FIRE ALARM VOLTAGE DROP AND BATTERY CALCULATIONS).

CONSTRUCTION DOCUMENTS

E601



AGENCY INFORMATION:

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OPSC or OSHPD PROJ. NO.: NA
 PROJECT NO.: 19122.01-38
 DRAWN BY: VPZ
 CHKD BY: DF
 ISSUE DATE: 1/28/2020
 SHEET TITLE

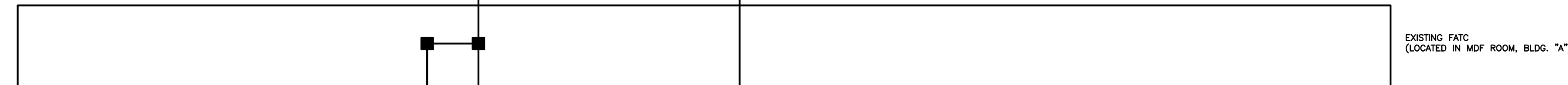
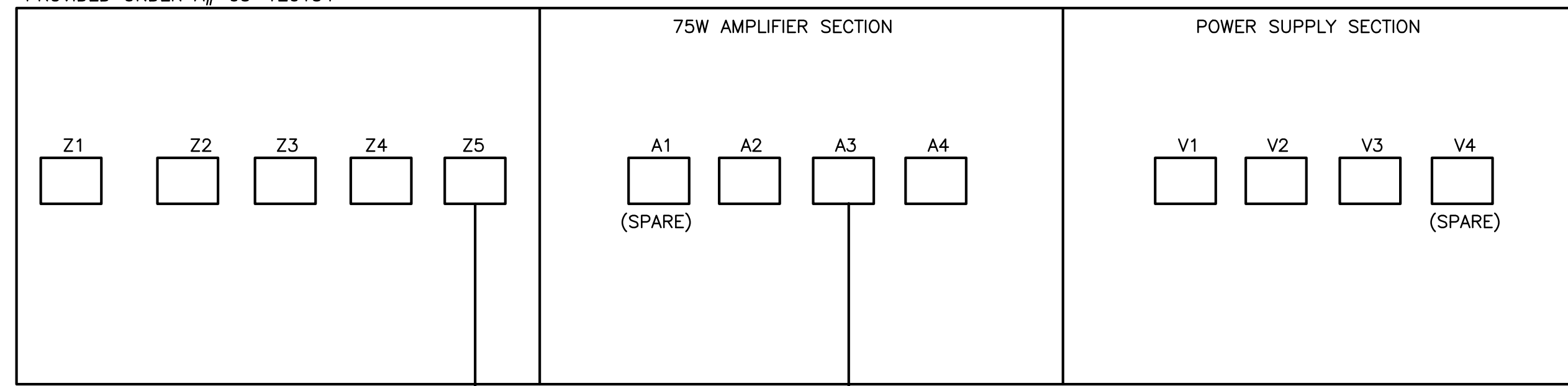
PARTIAL FIRE ALARM RISER DIAGRAM, BUILDINGS C, D, E, & F

SHEET NUMBER

E602A

CONSTRUCTION DOCUMENTS

FACP (LOCATED IN MDF ROOM, BLDG "A")
PROVIDED UNDER A# 03-120134



TO BLDG'S L, M & K,
REFER TO SHEET E602B

KEY NOTES (GENERAL)

(NOTE: THESE NOTES WILL NOT APPEAR ON ALL SHEETS)

- 1 PROVIDE FATC, EXXKA, NEMA 3R PULLBOX W/TERMINAL BLOCKS, RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
- 2 PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
- 3 PROVIDE 10"x17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM", #81017B-0X, WITH #81017-S1JH COVER BY, CHRISTY CONCRETE.
- 4 PROVIDE 1-1/2" C. W/(2) WEST PENN. #AQC294 (22) & (1) WEST PENN. #AQC295 (1A).
- 5 PROVIDE 1-1/4" C. W/(1) WEST PENN. #AQC294 (12), & (1) #AQC295 (1A) & (1) #AQC227 (V1).
- 6 SET SPEAKER FOR 1/4W.
- 7 SET SPEAKER FOR 1/2W.
- 8 SET SPEAKER FOR 1W.
- 9 SET SPEAKER FOR 2W.
- 10 PROVIDE ACCESS PANEL AT HEAT DETECTOR.
- 11 EXISTING 2" C. PROVIDE WEST PENN. #AQC294 & #AQC295 (12,1A) (BLDG H & J).
- 12 EXISTING 2" C. PROVIDE WEST PENN. (3) #AQC294 (23), (1) #AQC295 (A), & (1) 6 STRAND FIBER (DIGITAL AUDIO LOOP TO R75). SUPERIOR ESSEX, #W30066001.
- 13 EXISTING 2" C. PROVIDE WEST PENN. (2) #AQC294 (22), & (1) 6 STRAND FIBER (DIGITAL AUDIO LOOP TO R75). SUPERIOR ESSEX, #W3006600.
- 14 PROVIDE 2" C. W/WEST PENN. #AQC294 (12) & #AQC295 (1A).
- 15 EXISTING ATTIC ACCESS HATCH.
- 16 HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.

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BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS E.S. MODERNIZATION

815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.: NA
PROJECT NO.: 19122.01-38
DRAWN BY: VPZ
CHKD BY: DF
ISSUE DATE: 1/28/2020

SHEET TITLE

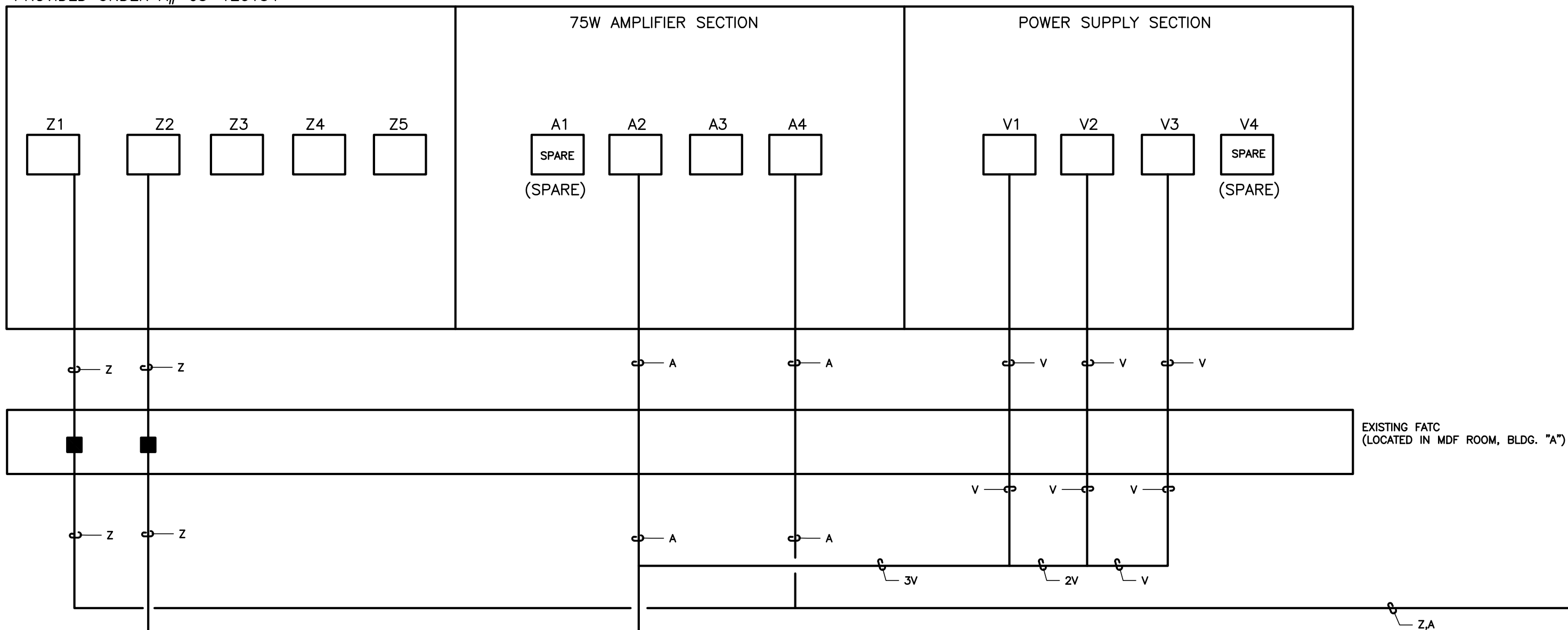
PARTIAL FIRE ALARM RISER DIAGRAM BUILDINGS H AND J

SHEET NUMBER

E602C

CONSTRUCTION DOCUMENTS

FACP (LOCATED IN MDF ROOM, BLDG "A")
PROVIDED UNDER A# 03-120134



KEY NOTES (GENERAL)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

- 1 PROVIDE FACP, ESSEX, NEMA 3R PULLBOX W/TERMINAL BLOCKS, RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
- 2 PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
- 3 PROVIDE 10"x17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM", #81017B, WITH #81017-S1JH COVER BY, CHRISTY CONCRETE.
- 4 PROVIDE 1-1/2" C. W/2 WEST PENN. #AQC294 (22) & (1) WEST PENN. #AQC295 (1A).
- 5 PROVIDE 1-1/4" C. W/1 WEST PENN. #AQC294 (12), & (1) #AQC295 (1A) & (1) #AQC227 (V1).
- 6 SET SPEAKER FOR 1/4W.
- 7 SET SPEAKER FOR 1/2W.
- 8 SET SPEAKER FOR 1W.
- 9 SET SPEAKER FOR 2W.
- 10 PROVIDE ACCESS PANEL AT HEAT DETECTOR.
- 11 EXISTING 2" C. PROVIDE WEST PENN. #AQC294 (22), (1) #AQC295 (A), & (1) 6 STRAND FIBER (DIGITAL AUDIO LOOP TO R75), SUPERIOR ESSEX, #W30066001.
- 12 EXISTING 2" C. PROVIDE WEST PENN. (2) #AQC294 (22), & (1) 6 STRAND FIBER (DIGITAL AUDIO LOOP TO R75), SUPERIOR ESSEX, #W3006600.
- 13 PROVIDE 2" C. W/WEST PENN. #AQC294 (12) & #AQC295 (1A).
- 14 EXISTING ATTIC ACCESS HATCH.
- 15 HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING.
- 16 HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON TILE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.

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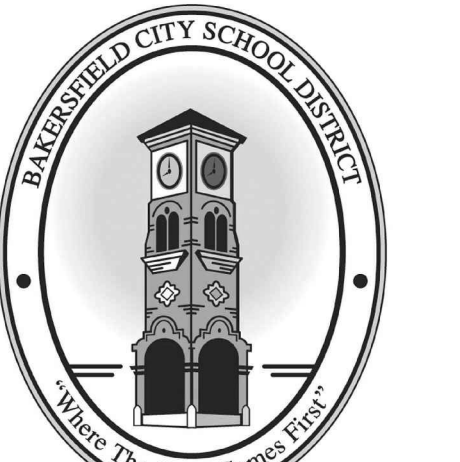


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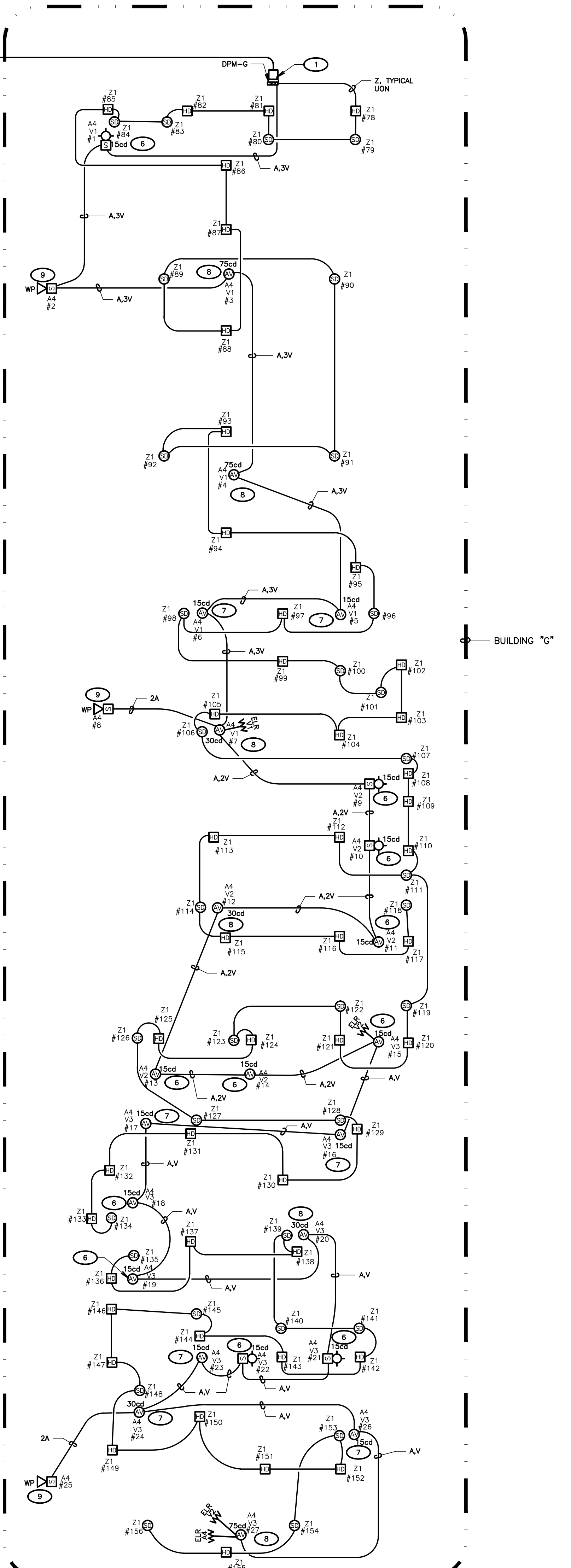
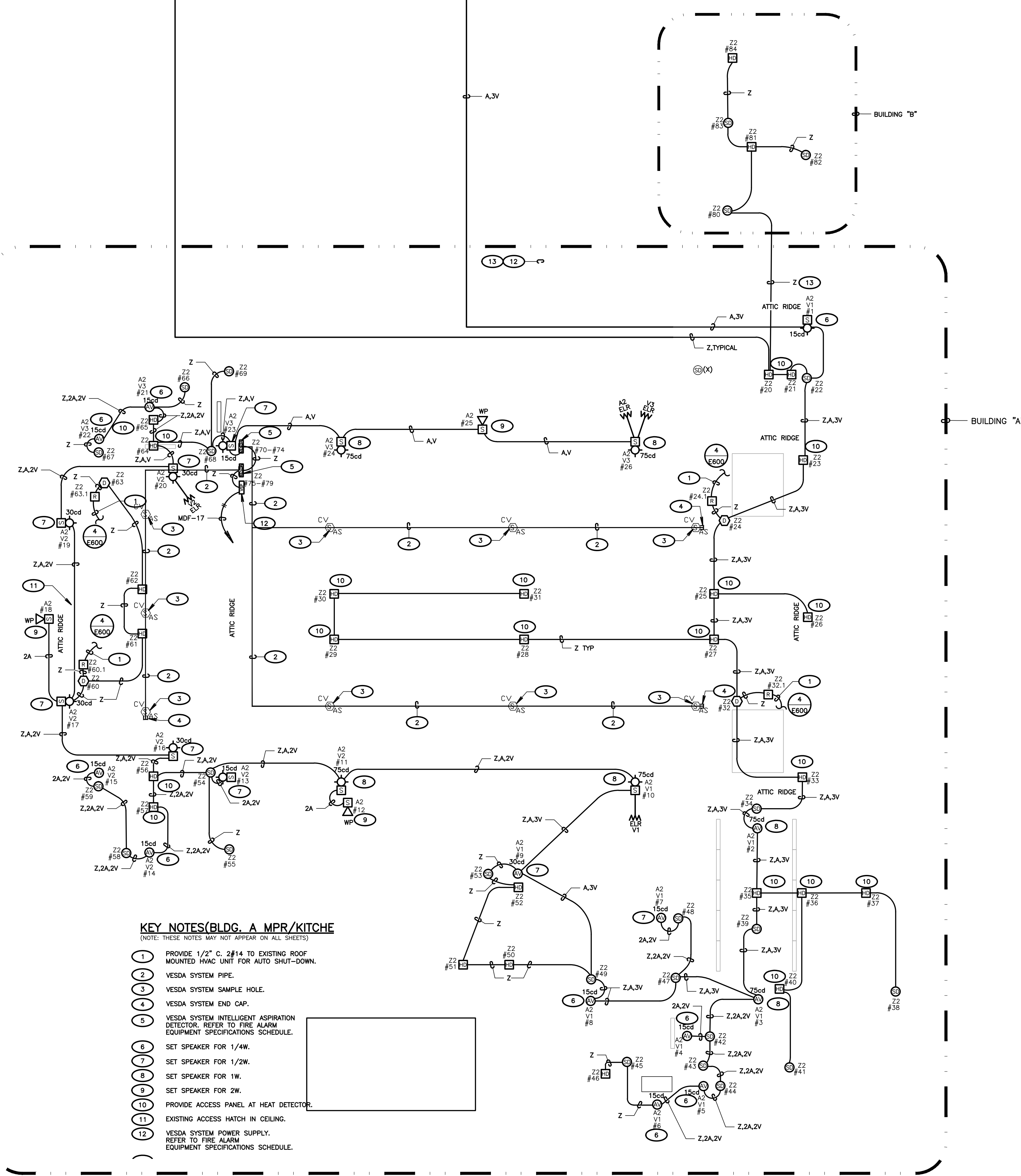
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OPSC or OSHPD PROJ. NO.: NA
PROJECT NO.: 19122.01-38
DRAWN BY: VPZ
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ISSUE DATE: 1/28/2020
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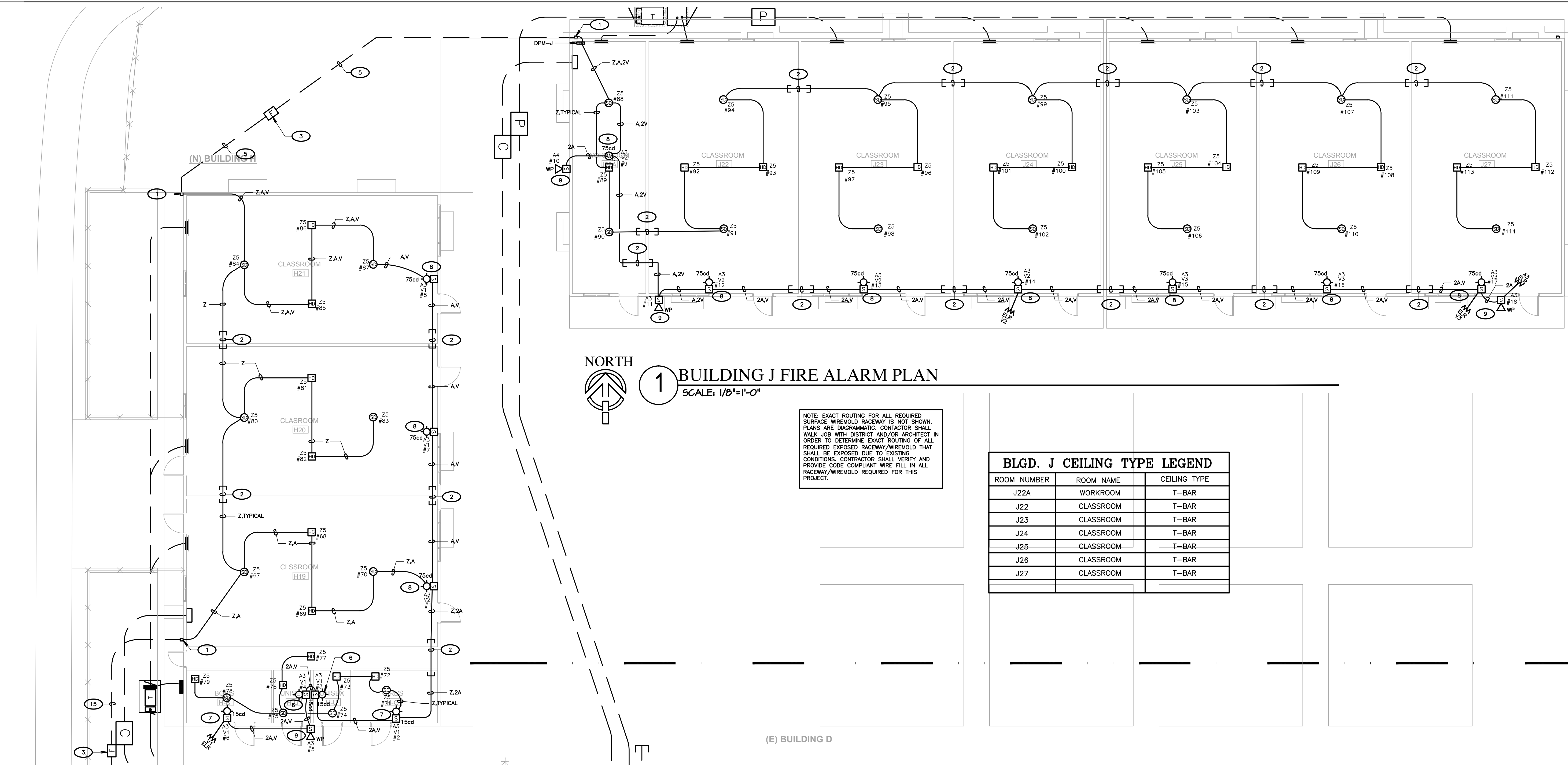
PARTIAL FIRE ALARM RISER DIAGRAM BUILDINGS A AND G

SHEET NUMBER

E602D



CONSTRUCTION DOCUMENTS

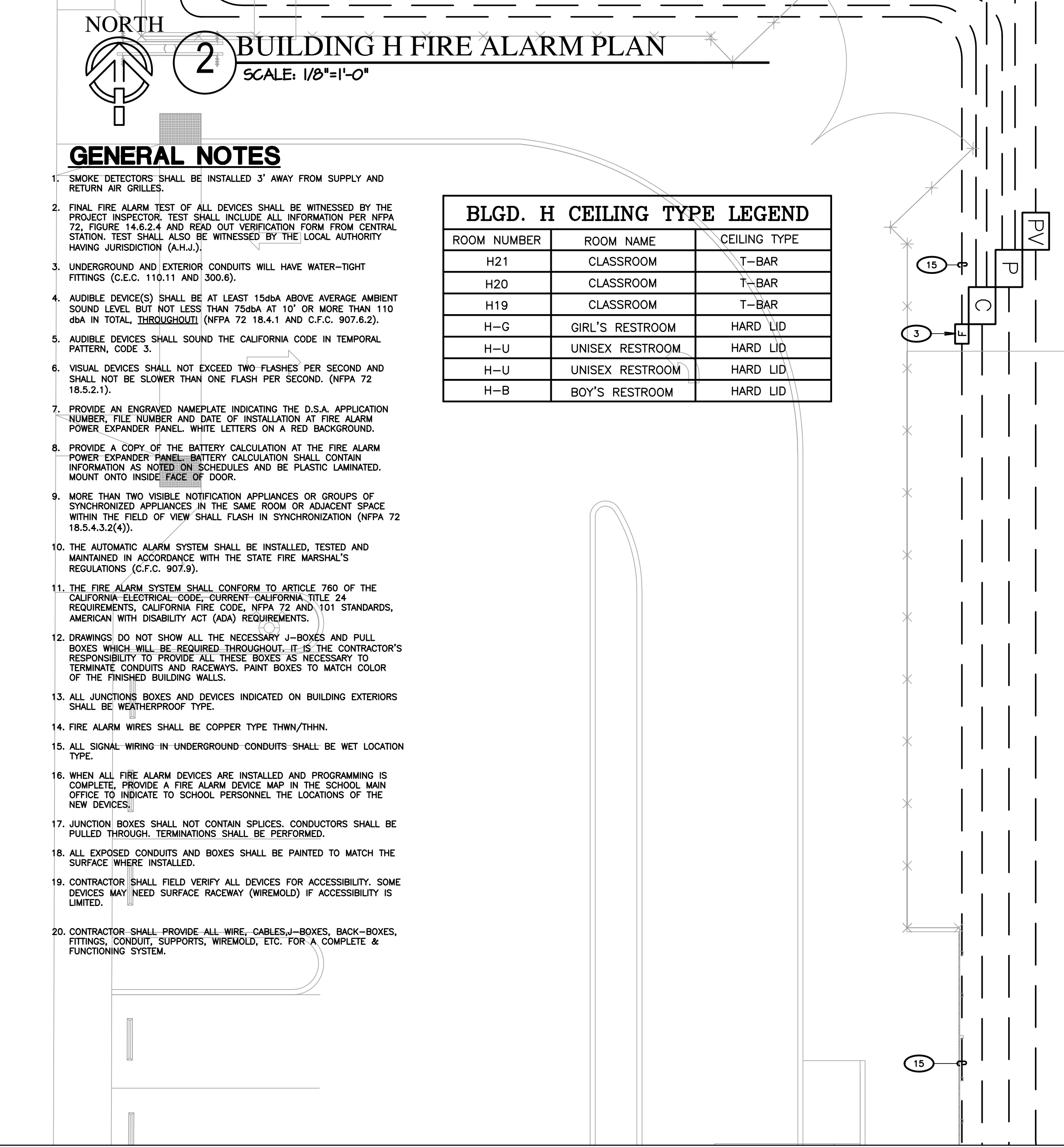


1 BUILDING J FIRE ALARM PLAN
SCALE: 1/8"=1'-0"

NOTE: EXACT ROUTING FOR ALL REQUIRED SURFACE WIREMOLD RACEWAY IS NOT SHOWN. PLANS ARE DIAGNOSTIC. CONTRACTOR SHALL WALK JOB WITH DISTRICT AND/OR ARCHITECT IN ORDER TO DETERMINE EXACT ROUTING OF ALL REQUIRED EXPOSED RACEWAY/WIREMOLD THAT SHALL BE EXPOSED DUE TO EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY AND PROVIDE CODE COMPLIANT WIRE FILL IN ALL RACEWAY/WIREMOLD REQUIRED FOR THIS PROJECT.

ROOM NUMBER	ROOM NAME	CEILING TYPE
J22A	WORKROOM	T-BAR
J22	CLASSROOM	T-BAR
J23	CLASSROOM	T-BAR
J24	CLASSROOM	T-BAR
J25	CLASSROOM	T-BAR
J26	CLASSROOM	T-BAR
J27	CLASSROOM	T-BAR

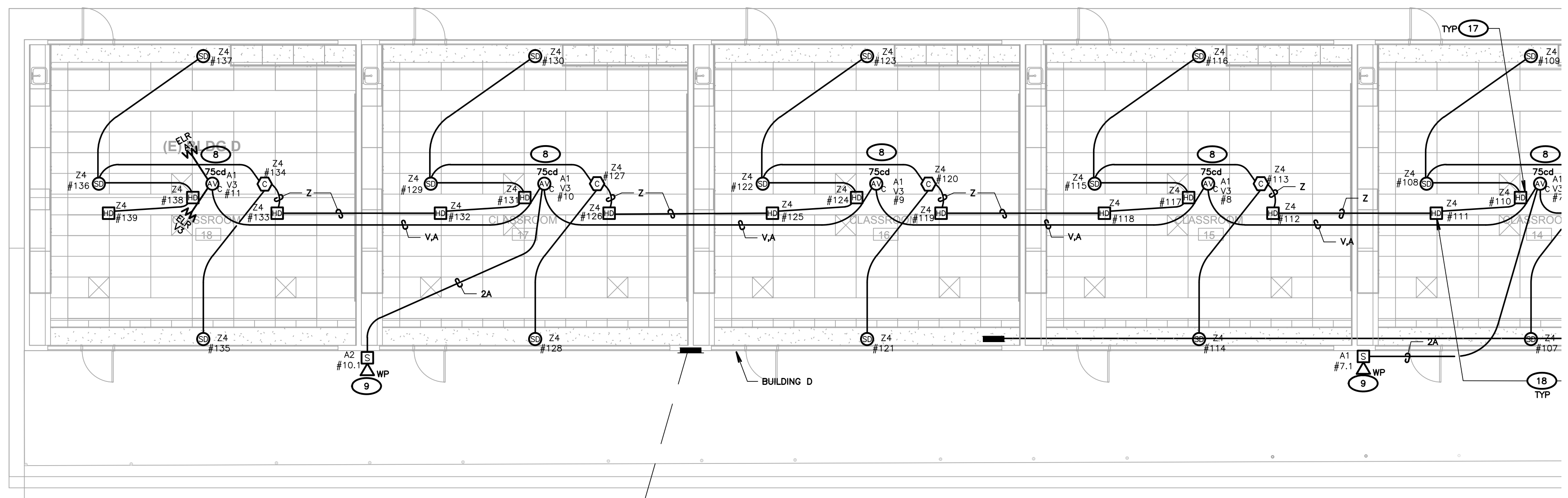
- KEY NOTES (GENERAL)**
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- PROVIDE F.A.T.C. EXX4, NEMA 3R PULLBOX W/ TERMINAL BLOCKS, RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/ FIRE ALARM SYSTEM CONDUCTORS.
 - PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E505.
 - PROVIDE 10"x17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM", 8" (1) 1/2" DIA. W/ #1017-51.4H COVER BY CHRISTY CONCRETE.
 - PROVIDE 1-1/2" W/ (2) WEST PENN. #AQC294 (22) & (1) WEST PENN. #AQC295 (1A).
 - PROVIDE 1-1/2" W/ (1) WEST PENN. #AQC294 (12) & (1) #AQC295 (1A) & (1) #AQC227 (V1).
 - SET SPEAKER FOR 1/4W.
 - SET SPEAKER FOR 1/2W.
 - SET SPEAKER FOR 1W.
 - SET SPEAKER FOR 2W.
 - PROVIDE ACCESS PANEL AT HEAT DETECTOR.
 - EXISTING 2" C. PROVIDE WEST PENN. #AQC294 & #AQC295 (12,1A) (BLDG H & J).
 - EXISTING 2" C. PROVIDE WEST PENN. (3) #AQC294 (32), (1) #AQC295 (A), & (1) 6 STRAND FIBER OPTICAL AUDIO LOOP TO R75). SUPERIOR ESSEX, #W3006601.
 - EXISTING 2" C. PROVIDE WEST PENN. (2) #AQC294 (22) & (1) 6 STRAND FIBER OPTICAL AUDIO LOOP TO R75). SUPERIOR ESSEX, #W3006601.
 - PROVIDE 2" C. W/ WEST PENN. #AQC294 (12) & #AQC295 (1A).
 - EXISTING ATTIC ACCESS HATCH.
 - HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING.
 - HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON TILE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.



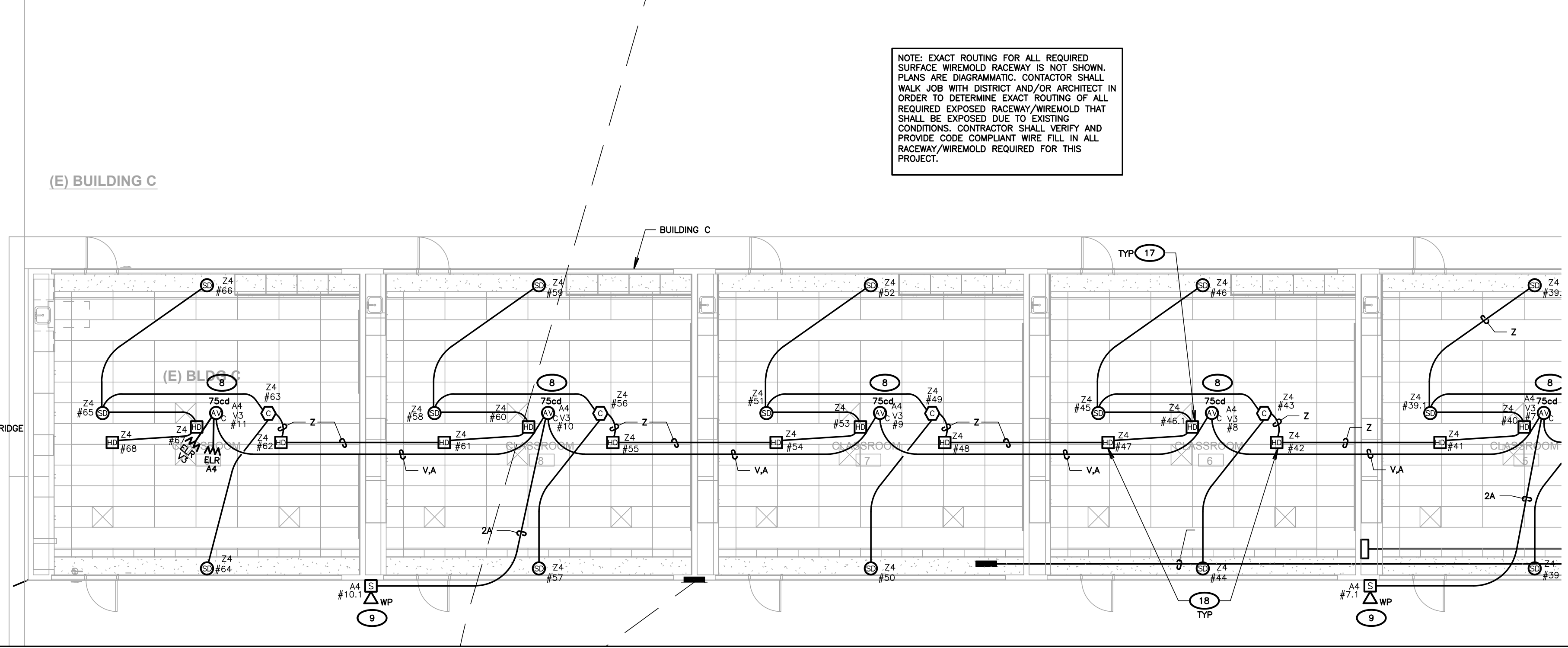
2 BUILDING H FIRE ALARM PLAN
SCALE: 1/8"=1'-0"

ROOM NUMBER	ROOM NAME	CEILING TYPE
H21	CLASSROOM	T-BAR
H20	CLASSROOM	T-BAR
H19	CLASSROOM	T-BAR
H-G	GIRL'S RESTROOM	HARD LID
H-U	UNISEX RESTROOM	HARD LID
H-U	UNISEX RESTROOM	HARD LID
H-B	BOY'S RESTROOM	HARD LID

- GENERAL NOTES**
- SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR GRILLES.
 - FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72, FIGURE 14.2.2.4 AND READ OUT VERIFICATION FORM FROM CENTRAL STATION. TEST SHALL ALSO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.H.J.).
 - UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS (I.E.C. 110.11 AND 300.6).
 - AUDIBLE DEVICE(S) SHALL BE AT LEAST 15dBA ABOVE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75dBA AT 10' OR MORE THAN 110 dBA IN TOTAL, THROUGHOUT (NFPA 72 18.4.1 AND C.F.C. 907.6.2).
 - AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN, CODE 3.
 - VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND. (NFPA 72 18.5.2.1).
 - PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE O.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM POWER EXPANDER PANEL. WRITE LETTERS ON A RED BACKGROUND.
 - PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
 - MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACES WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION (NFPA 72 18.5.4.3.2(4)).
 - THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.9).
 - THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 780 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
 - DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED BUILDING WALLS.
 - ALL JUNCTIONS, BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
 - FIRE ALARM WIRES SHALL BE COPPER TYPE THW/THHN.
 - ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
 - WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
 - JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED.
 - ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED.
 - CONTRACTOR SHALL FIELD VERIFY ALL DEVICES FOR ACCESSIBILITY. SOME DEVICES MAY NEED SURFACE (WIREMOLD) IF ACCESSIBILITY IS LIMITED.
 - CONTRACTOR SHALL PROVIDE ALL WIRE, CABLES, J-BOXES, BACK-BOXES, FITTINGS, CONDUIT, SUPPORTS, WIREMOLD, ETC. FOR A COMPLETE & FUNCTIONING SYSTEM.



NOTE: EXACT ROUTING FOR ALL REQUIRED SURFACE WIREMOLD RACEWAY IS NOT SHOWN. PLANS ARE DIAGNOSTIC. CONTRACTOR SHALL WALK JOB WITH DISTRICT AND/OR ARCHITECT IN ORDER TO DETERMINE EXACT ROUTING OF ALL REQUIRED EXPOSED RACEWAY/WIREMOLD THAT SHALL BE EXPOSED DUE TO EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY AND PROVIDE CODE COMPLIANT WIRE FILL IN ALL RACEWAY/WIREMOLD REQUIRED FOR THIS PROJECT.



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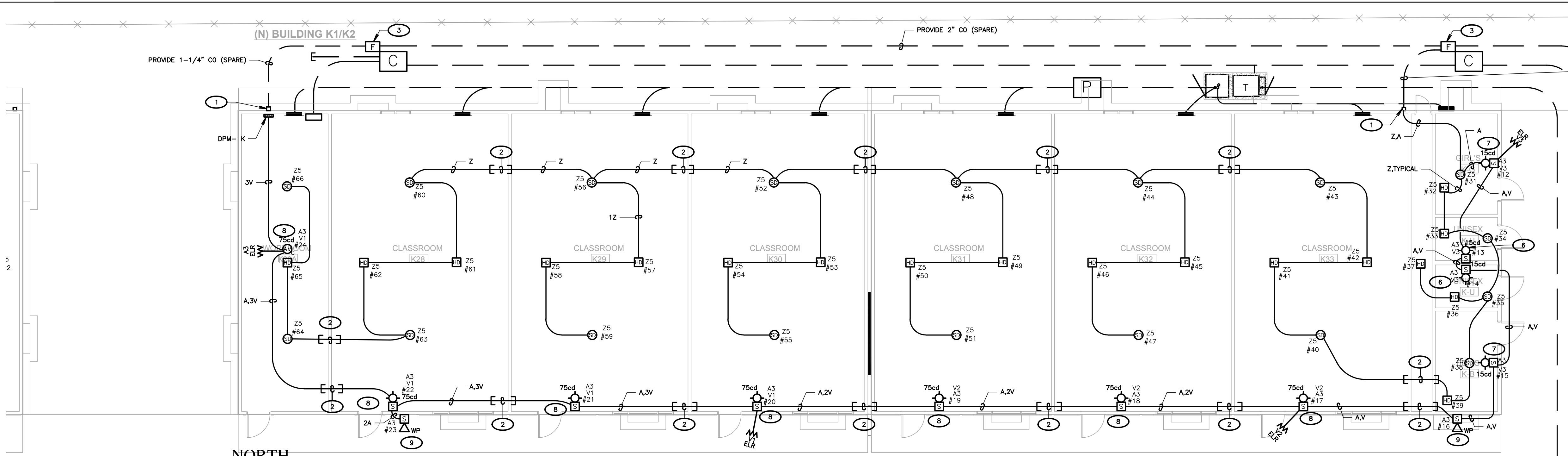
OPSC or OSHPD PROJ. NO.: NA
PROJECT NO.: 19122.01-38
DRAWN BY: VPZ
CHK'D BY: DF
ISSUE DATE: 1/28/2020
SHEET TITLE

FIRE ALARM PLAN BUILDINGS H & J

SHEET NUMBER

E605

CONSTRUCTION DOCUMENTS



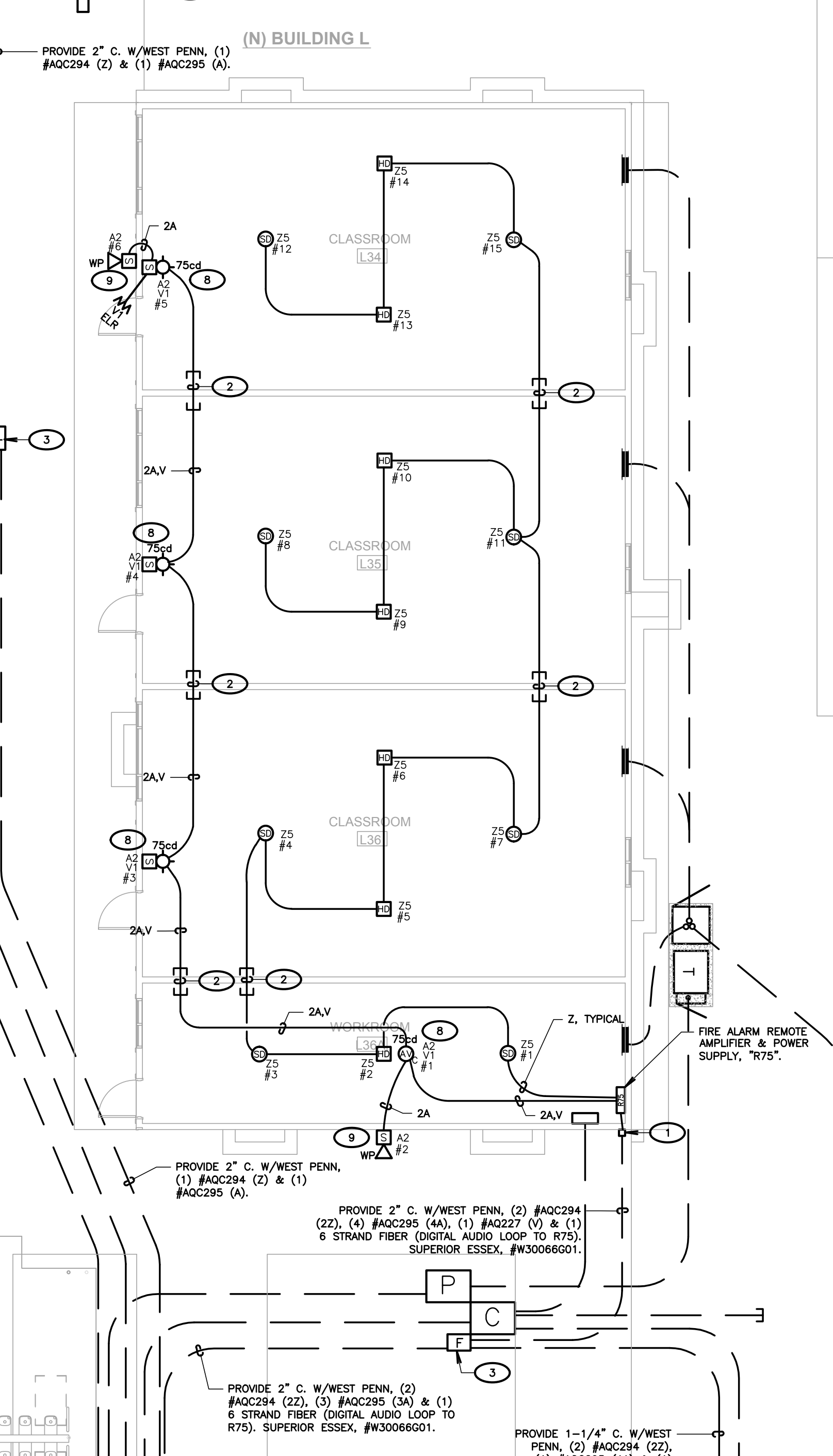
1 BUILDING K FIRE ALARM PLAN
SCALE: 1/8"=1'-0"

ROOM NUMBER	ROOM NAME	CEILING TYPE
K28A	WORKROOM	T-BAR
K28	CLASSROOM	T-BAR
K29	CLASSROOM	T-BAR
K30	CLASSROOM	T-BAR
K31	CLASSROOM	T-BAR
K32	CLASSROOM	T-BAR
K33	CLASSROOM	T-BAR
K-G	GIRL'S RESTROOM	HARD LID
K-U	UNISEX RESTROOM	HARD LID
K-U	UNISEX RESTROOM	HARD LID
K-B	BOY'S RESTROOM	HARD LID

NOTE: EXACT ROUTING FOR ALL REQUIRED SURFACE WIREMOLD RACEWAY IS NOT SHOWN. PLANS ARE DIAGNOSTIC. CONTRACTOR SHALL MAKE JOB WITH DISTRICT AND/OR ARCHITECT IN ORDER TO DETERMINE EXACT ROUTING OF ALL REQUIRED EXPOSED RACEWAY/WIREMOLD THAT SHALL BE EXPOSED DUE TO EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY AND PROVIDE CODE COMPLIANT WIRE FILL IN ALL RACEWAY/WIREMOLD REQUIRED FOR THIS PROJECT.

ROOM NUMBER	ROOM NAME	CEILING TYPE
L34	CLASSROOM	T-BAR
L35	CLASSROOM	T-BAR
L36	CLASSROOM	T-BAR
L36A	WORKROOM	T-BAR

1 BUILDING L FIRE ALARM PLAN
SCALE: 1/8"=1'-0"

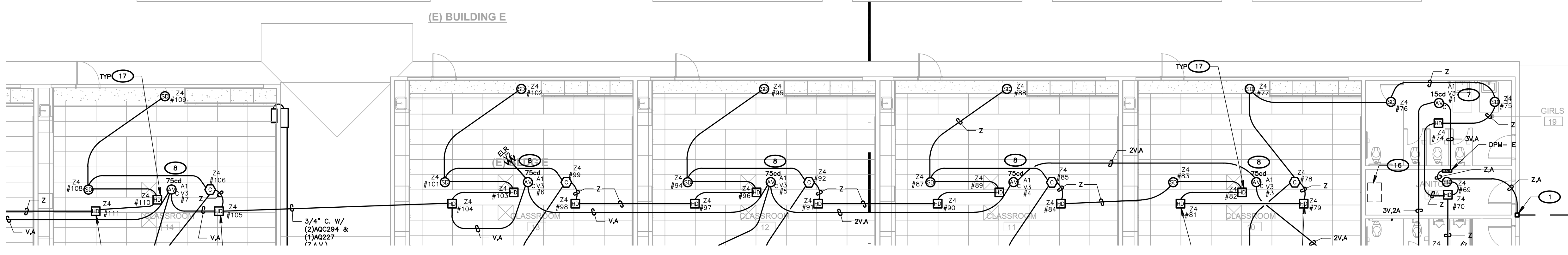


GENERAL NOTES

- SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR GRILLES.
- FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72, FIGURE 14.6.2.4 AND READ OUT VERIFICATION FORM FROM CENTRAL STATION. TEST SHALL ALSO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.H.J.).
- UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS (C.E.C. 110.11 AND 300.6).
- AUDIBLE DEVICE(S) SHALL BE AT LEAST 15dba ABOVE AVERAGE AMBIENT SOUND LEVEL, BUT NOT LESS THAN 75dba AT 10' OR MORE THAN 110 dba IN TOTAL ISOLATED (NFPA 72 18.4.1 AND C.F.C. 907.6.2).
- AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN, CODE 3.
- VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND. (NFPA 72 18.5.2.1).
- PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM POWER EXPANDER PANEL. WHITE LETTERS ON A RED BACKGROUND.
- PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
- MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION (NFPA 72 18.5.3.2.4.1).
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.9).
- THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 750 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
- DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED BUILDING WALLS.
- ALL JUNCTIONS BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
- FIRE ALARM WIRES SHALL BE COPPER TYPE THIN/THIN.
- ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
- WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
- JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGHOUT. TERMINATIONS SHALL BE PERFORMED.
- ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED.
- CONTRACTOR SHALL FIELD VERIFY ALL DEVICES FOR ACCESSIBILITY. SOME DEVICES MAY NEED SURFACE RACEWAY (WIREMOLD) IF ACCESSIBILITY IS LIMITED.
- CONTRACTOR SHALL PROVIDE ALL WIRE, CABLES, J-BOXES, BACK-BOXES, FITTINGS, CONDUIT, SUPPORTS, WIREMOLD, ETC. FOR A COMPLETE & FUNCTIONING SYSTEM.

KEY NOTES (GENERAL)

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- PROVIDE FATC, 6X8X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS, RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
 - PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
 - PROVIDE 10"x17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM", #8101700K, WITH #81017-51H COVER BY, CHRISTY CONCRETE.
 - PROVIDE 1-1/2" C. W/(2) WEST PENN. #AQC294 (22) & (1) WEST PENN. #AQC295 (1A).
 - PROVIDE 1-1/4" C. W/(1) WEST PENN. #AQC294 (12), & (1) #AQC295 (1A) & (1) #AQC227 (1V1).
 - SET SPEAKER FOR 1/4W.
 - SET SPEAKER FOR 1/2W.
 - SET SPEAKER FOR 1W.
 - SET SPEAKER FOR 2W.
 - PROVIDE ACCESS PANEL AT HEAT DETECTOR.
 - EXISTING 2" C. PROVIDE WEST PENN. #AQC294 & #AQC295 (12,1A) (BLDG H & J).
 - EXISTING 2" C. PROVIDE WEST PENN. (3) #AQC294 (32), (1) #AQC295 (4), & (1) 6 STRAND FIBER (DIGITAL AUDIO LOOP TO R75), SUPERIOR ESSEX, #W30066001.
 - EXISTING 2" C. PROVIDE WEST PENN. (2) #AQC294 (22), & (1) 6 STRAND FIBER (DIGITAL AUDIO LOOP TO R75), SUPERIOR ESSEX, #W30066001.
 - PROVIDE 2" C. W/WEST PENN. #AQC294 (12) & #AQC295 (1A).
 - EXISTING ATTIC ACCESS HATCH.
 - HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON THE CEILING ABOVE EXISTING T-BAR CEILING.
 - HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON THE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.



(E) BUILDING E

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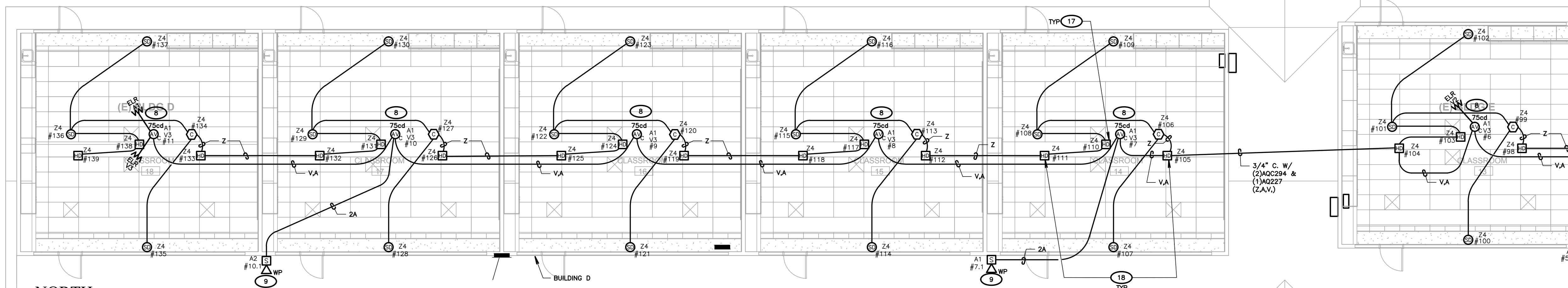
OPSC or OSHPD PROJ. NO.: NA
PROJECT NO.: 19122.01-38
DRAWN BY: VPZ
CHK'D BY: DF
ISSUE DATE: 1/28/2020
SHEET TITLE:

FIRE ALARM PLAN BUILDING K, AND L

SHEET NUMBER

E606

CONSTRUCTION DOCUMENTS



1 BUILDING D FIRE ALARM PLAN
SCALE: 1/8"=1'-0"

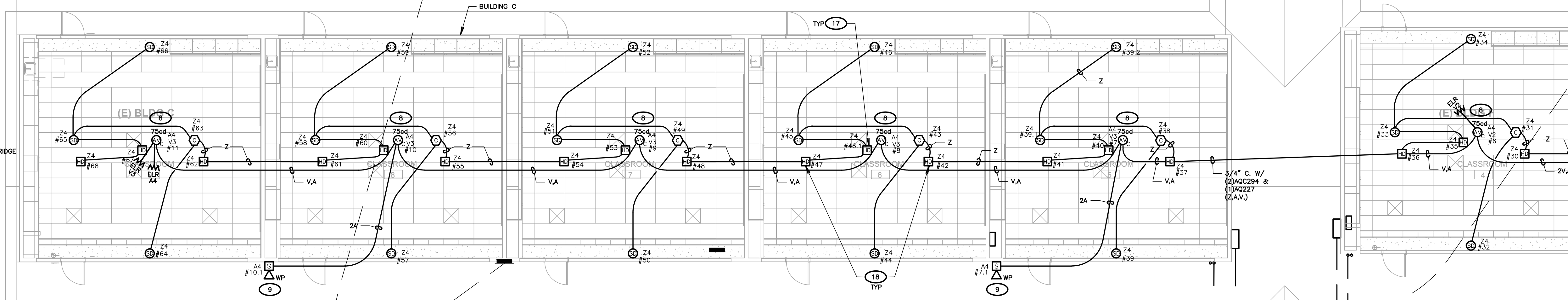
BLGD. D CEILING TYPE LEGEND

ROOM NUMBER	ROOM NAME	CEILING TYPE
18	CLASSROOM	T-BAR
17	CLASSROOM	T-BAR
16	CLASSROOM	T-BAR
15	CLASSROOM	T-BAR
14	CLASSROOM	T-BAR

NOTE: EXACT ROUTING FOR ALL REQUIRED SURFACE WIREMOLD RACEWAY IS NOT SHOWN. PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL WALK JOB WITH DISTRICT AND/OR ARCHITECT IN ORDER TO DETERMINE EXACT ROUTING OF ALL REQUIRED EXPOSED RACEWAY/WIREMOLD THAT SHALL BE EXPOSED DUE TO EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY AND PROVIDE CODE COMPLIANT WIRE FILL IN ALL RACEWAY/WIREMOLD REQUIRED FOR THIS PROJECT.

BLGD. C CEILING TYPE LEGEND

ROOM NUMBER	ROOM NAME	CEILING TYPE
9	CLASSROOM	T-BAR
8	CLASSROOM	T-BAR
7	CLASSROOM	T-BAR
6	CLASSROOM	T-BAR
5	CLASSROOM	T-BAR



2 BUILDING C FIRE ALARM PLAN
SCALE: 1/8"=1'-0"

- KEY NOTES (GENERAL)**
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISSE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
 - PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
 - PROVIDE 10"x17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM" #8101780X, WITH #81017-51JH COVER BY CHRISTY CONCRETE.
 - PROVIDE 1-1/2" C. W/2" WEST PENN. #AQC294 (22) & (1) WEST PENN. #AQC295 (1A).
 - PROVIDE 1-1/4" C. W/1" WEST PENN. #AQC294 (12) & (1) #AQC295 (1A) & (1) #AQC227 (1).
 - SET SPEAKER FOR 1/W.
 - SET SPEAKER FOR 1/2W.
 - SET SPEAKER FOR 1W.
 - SET SPEAKER FOR 2W.
 - PROVIDE ACCESS PANEL AT HEAT DETECTOR.
 - EXISTING 2" C. PROVIDE WEST PENN. #AQC294 & #AQC295 (12) (A) (BLDG H & J).
 - EXISTING 2" C. PROVIDE WEST PENN. (3) #AQC294 (32), (1) #AQC295 (A), & (1) 8 STRAND FIBER (DIGITAL AUDIO LOOP TO R75). SUPERIOR ESSEX, #W30066201.
 - EXISTING 2" C. PROVIDE WEST PENN. (2) #AQC294 (22), & (1) 8 STRAND FIBER (DIGITAL AUDIO LOOP TO R75). SUPERIOR ESSEX, #W30066201.
 - PROVIDE 2" C. W/WEST PENN. #AQC294 (12) & #AQC295 (1A).
 - EXISTING ATTIC ACCESS HATCH.
 - HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING.
 - HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON TILE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.

GENERAL NOTES

- SMOKE DETECTORS SHALL BE INSTALLED 3" AWAY FROM SUPPLY AND RETURN AIR GRILLES.
- FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72, FIGURE 14.6.2.4 AND READ OUT VERIFICATION FROM CENTRAL STATION. TEST SHALL ALSO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.U.A.).
- UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS (C.E.C. 110.11 AND 300.6).
- AUDIBLE DEVICE(S) SHALL BE AT LEAST 15dBA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75dBA AT 10' OR MORE THAN 110 dBA IN TOTAL DISBURSAL (NFPA 72 18.4.1 AND C.F.C. 907.6.2).
- AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN, CODE 3.
- VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND. (NFPA 72 18.5.2.1).
- PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM POWER EXPANDER PANEL. WHITE LETTERS ON A RED BACKGROUND.
- PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
- MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION (NFPA 72 18.5.4.3.2(A)).
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.9).
- THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
- DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED BUILDING WALLS.
- ALL JUNCTIONS BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
- FIRE ALARM WIRES SHALL BE COPPER TYPE THHN/THWN.
- ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
- WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
- JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED.
- ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED.
- CONTRACTOR SHALL FIELD VERIFY ALL DEVICES FOR ACCESSIBILITY. SOME DEVICES MAY NEED SURFACE RACEWAY (WIREMOLD) IF ACCESSIBILITY IS LIMITED.
- CONTRACTOR SHALL PROVIDE ALL WIRE, CABLES, J-BOXES, BACK-BOXES, FITTINGS, CONDUIT, SUPPORTS, WIREMOLD, ETC. FOR A COMPLETE & FUNCTIONING SYSTEM.

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BESSIE OWENS E.S. MODERNIZATION
815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.	NA
PROJECT NO.	19122.01-38
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	1/28/2020
SHEET TITLE	

FIRE ALARM PLAN BUILDINGS C, & D

SHEET NUMBER

E607

CONSTRUCTION DOCUMENTS

BLDG. B CEILING TYPE LEGEND		
ROOM NUMBER	ROOM NAME	CEILING TYPE
B10	ELECTRICAL ROOM	HARD LID AT ROOF JOIST (NO ATTIC)
B11	ELECTRICAL ROOM	HARD LID W/ATTIC
B12	ELECTRICAL ROOM	HARD LID W/ATTIC
B13	ELECTRICAL ROOM	HARD LID W/ATTIC

BLDG. G CEILING TYPE LEGEND		
ROOM NUMBER	ROOM NAME	CEILING TYPE
102	FIRE ROOM	HARD LID
103	ELECTRICAL ROOM	HARD LID
104	SUPPLIES ROOM	T-BAR
105	REST ROOM	HARD LID
101	LIBRARY	T-BAR
108	HALLWAY	T-BAR
106	TEACHER'S WORK RM	T-BAR
107	TEACHER'S LOUNGE	T-BAR
109	JANITOR'S ROOM	T-BAR
110	REST ROOM	HARD LID
111	REST ROOM	HARD LID
112	OFFICE	T-BAR
113	OFFICE	T-BAR
114	OFFICE	T-BAR
115	OFFICE	T-BAR
116	HALLWAY	T-BAR
119	OFFICE	T-BAR
120	OFFICE	T-BAR
121	PRINCIPAL ROOM	T-BAR
122	CONFERENCE ROOM	T-BAR
123	NURSE	T-BAR
124	REST ROOM	HARD LID
118	LOBBY	T-BAR
117	RECEPTION	T-BAR

BLDG. A CEILING TYPE LEGEND		
ROOM NUMBER	ROOM NAME	CEILING TYPE
A111	MDF	HARD LID AT ROOF JOIST(NO ATTIC)
A112	GIRL'S RESTROOM	HARD LID W/ATTIC
A109	BAND ROOM	HARD LID W/ATTIC
A108	STORAGE	HARD LID AT ROOF JOIST(NO ATTIC)
A110	TOILET	HARD LID AT ROOF JOIST(NO ATTIC)
A107	HALLWAY	HARD LID W/ATTIC
A102	STAGE	HARD LID W/ATTIC
A101	MULTI-PURPOSE	HARD LID W/ATTIC
A126	MECHANICAL ROOM	HARD LID AT ROOF JOIST(NO ATTIC)
A106	TOILET	HARD LID AT ROOF JOIST(NO ATTIC)
A103	HALLWAY	HARD LID W/ATTIC
A105	DRESSING	HARD LID W/ATTIC
A104	STORAGE	HARD LID AT ROOF JOIST(NO ATTIC)
A120	FACULTY DINNING	T-BAR
A121	CAR WASH	HARD LID AT ROOF JOIST(NO ATTIC)
A123	MECHANICAL ROOM	HARD LID AT ROOF JOIST(NO ATTIC)
A122	COLD BOX	HARD LID AT ROOF JOIST(NO ATTIC)
A125	HALLWAY	HARD LID W/ATTIC
A118	KITCHEN	HARD LID W/ATTIC
A113	STORAGE	HARD LID W/ATTIC
A124	GARAGE	HARD LID AT ROOF JOIST(NO ATTIC)
A119	HALLWAY	HARD LID AT ROOF JOIST(NO ATTIC)
A116	LOUNGE	HARD LID AT ROOF JOIST(NO ATTIC)
A115	JANITOR'S ROOM	HARD LID AT ROOF JOIST(NO ATTIC)
A117	TOILET	HARD LID AT ROOF JOIST(NO ATTIC)
A114	DRY STORAGE	HARD LID AT ROOF JOIST(NO ATTIC)
A113	STORAGE	HARD LID W/ATTIC

- ### GENERAL NOTES
- SMOKE DETECTORS SHALL BE INSTALLED 3" AWAY FROM SUPPLY AND RETURN AIR GRILLES.
 - FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72, FIGURE 14.6.2.4 AND READ OUT VERIFICATION FORM FROM CENTRAL STATION. TEST SHALL ALSO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.H.J.).
 - UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS (C.E.C. 110.11 AND 300.6).
 - AUDIBLE DEVICES SHALL BE AT LEAST 15DBA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75DBA AT 10' OR MORE THAN 110 DBA IN TOTAL THROUGHOUT (NFPA 72 18.4.1 AND C.F.C. 907.8.2).
 - AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN CODE 3.
 - VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND. (NFPA 72 18.5.2.1).
 - PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM POWER EXPANDER PANEL. WHITE LETTERS ON A RED BACKGROUND.
 - PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
 - MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION (NFPA 72 18.5.4.3.2(4)).
 - THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.9).
 - THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
 - DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACKS. PAINT BOXES TO MATCH COLOR OF THE FINISHED BUILDING WALLS.
 - ALL JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
 - FIRE ALARM WIRES SHALL BE COPPER TYPE THIN/THIN.
 - ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
 - WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
 - JUNCTION BOXES SHALL NOT CONTAIN SPICES. CONDUCTORS SHALL BE RACKED THROUGH TERMINATIONS SHALL BE PERFORMED.
 - ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED.
 - CONTRACTOR SHALL FIELD VERIFY ALL DEVICES FOR ACCESSIBILITY. SOME DEVICES MAY NEED SURFACE RACKING (WIREKOD) IF ACCESSIBILITY IS LIMITED.
 - CONTRACTOR SHALL PROVIDE ALL WIRE, CABLES, J-BOXES, BACK-BOXES, FITTINGS, CONDUIT, SUPPORTS, WIREMOLD, ETC. FOR A COMPLETE & FUNCTIONING SYSTEM.
 - PROVIDE CEILING ACCESS PANELS AT ALL HARDLID CEILINGS REQUIRING HEAT DETECTORS. SEE DETAIL 6/502. NO CEILING JOIST SHALL BE CUT. IF CEILING JOIST IS CUT THEN CDD IS REQUIRED.

- ### KEY NOTES (BLDG. A MPR/KITCHEN)
- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- PROVIDE 1/2" C. #14 TO EXISTING ROOF MOUNTED HVAC UNIT FOR AUTO SHUT-DOWN.
 - VESDA SYSTEM PIPE.
 - VESDA SYSTEM SAMPLE HOLE.
 - VESDA SYSTEM END CAP.
 - VESDA SYSTEM INTELLIGENT ASPIRATION DETECTOR. REFER TO FIRE ALARM EQUIPMENT SPECIFICATIONS SCHEDULE.
 - SET SPEAKER FOR 1/4W.
 - SET SPEAKER FOR 1/2W.
 - SET SPEAKER FOR 1W.
 - SET SPEAKER FOR 2W.
 - PROVIDE ACCESS PANEL AT HEAT DETECTOR.
 - EXISTING ACCESS HATCH IN CEILING.
 - VESDA SYSTEM POWER SUPPLY. REFER TO FIRE ALARM EQUIPMENT SPECIFICATIONS SCHEDULE.
 - ROUTE THRU ATTIC SPACE.

- ### KEY NOTES (GENERAL)
- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
 - PROVIDE 1" C. SLEEVE BETWEEN REELS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET 1500.
 - PROVIDE 10"x17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM" #81107, WITH #81017-51H COVER BY CHRISTY CONCRETE.
 - PROVIDE 1-1/2" C. W/2" WEST PENN. #A0C294 (2) & (1) WEST PENN. #A0C295 (1A).
 - PROVIDE 1-1/4" C. W/1" WEST PENN. #A0C294 (1), & (1) #A0C295 (1A) & (1) #A0C227 (V1).
 - SET SPEAKER FOR 1/4W.
 - SET SPEAKER FOR 1/2W.
 - SET SPEAKER FOR 1W.
 - SET SPEAKER FOR 2W.
 - PROVIDE ACCESS PANEL AT HEAT DETECTOR.
 - EXISTING 2" C. PROVIDE WEST PENN. #A0C294 & #A0C295 (12A) (BLDG H & J).
 - EXISTING 2" C. PROVIDE WEST PENN. (3) #A0C294 (3), (1) #A0C295 (A), & (1) 6 STRAND FIBER (DIGITAL AUDIO LOOP TO RFD). SUPERIOR ESSEX, #W30066001.
 - EXISTING 2" C. PROVIDE WEST PENN. (2) #A0C294 (2), & (1) 6 STRAND FIBER (DIGITAL AUDIO LOOP TO RFD). SUPERIOR ESSEX, #W30066001.
 - PROVIDE 2" C. W/WEST PENN. #A0C294 (12) & #A0C295 (1A).
 - EXISTING ATTIC ACCESS HATCH.
 - HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING.
 - HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON THE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.

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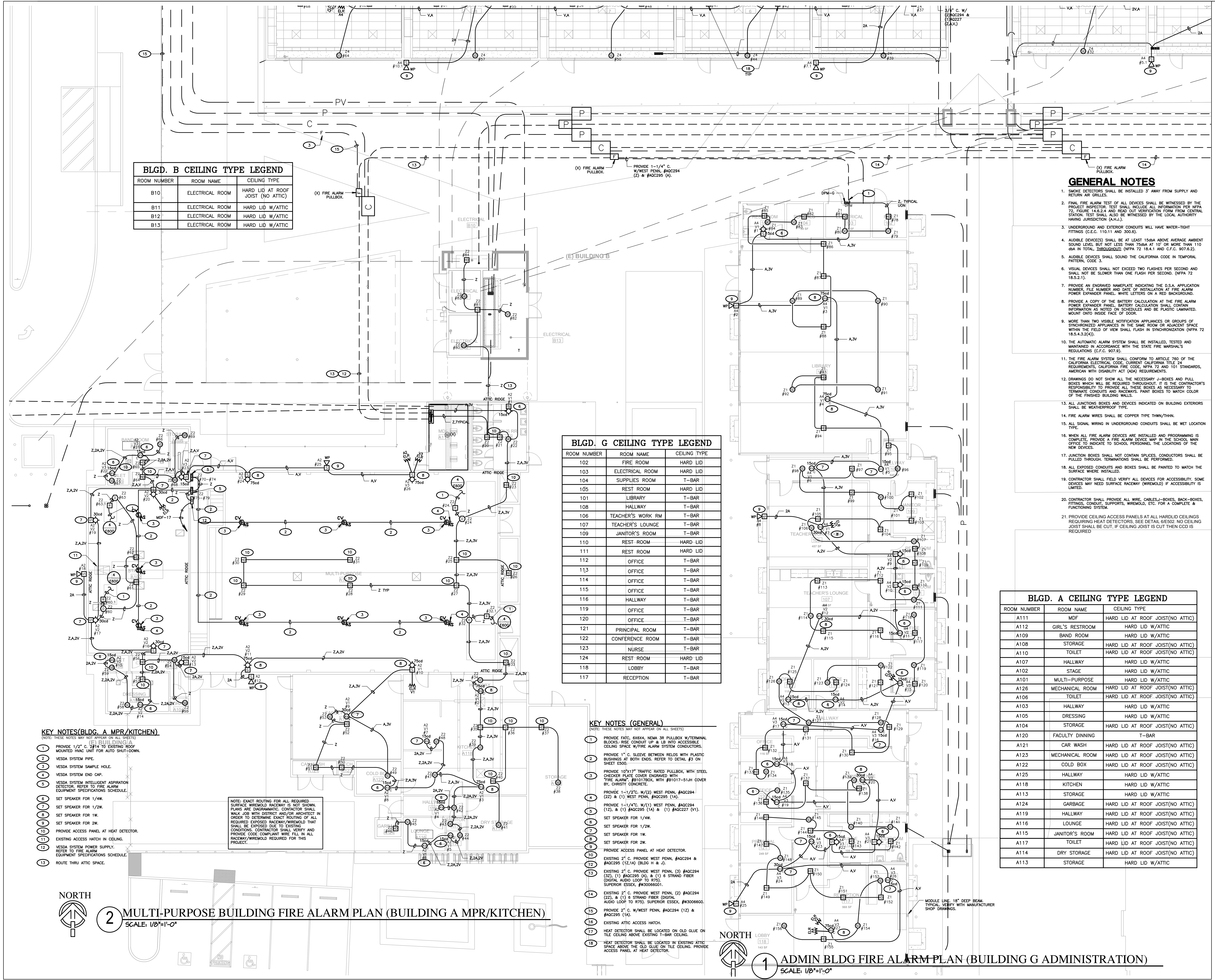
OPSC or OSHPD PROJ. NO.	NA
PROJECT NO.	19122.01-38
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	1/29/2020
SHEET TITLE	

FIRE ALARM PLAN BUILDING A MPR/KITCHEN AND BLDG G (ADMIN)

SHEET NUMBER

E608

CONSTRUCTION DOCUMENTS



2 MULTI-PURPOSE BUILDING FIRE ALARM PLAN (BUILDING A MPR/KITCHEN)
 SCALE: 1/8"=1'-0"

1 ADMIN BLDG FIRE ALARM PLAN (BUILDING G ADMINISTRATION)
 SCALE: 1/8"=1'-0"

BLGD. E CEILING TYPE LEGEND		
ROOM NUMBER	ROOM NAME	CEILING TYPE
13	CLASSROOM	T-BAR
12	CLASSROOM	T-BAR
11	CLASSROOM	T-BAR
10	CLASSROOM	T-BAR
19	GIRL'S RESTROOM	HARD LID
19A	JANITOR	HARD LID
20	BOY'S RESTROOM	HARD LID

BLGD. F CEILING TYPE LEGEND		
ROOM NUMBER	ROOM NAME	CEILING TYPE
4	CLASSROOM	T-BAR
3	CLASSROOM	T-BAR
2	CLASSROOM	T-BAR
1	CLASSROOM	T-BAR
21	GIRL'S RESTROOM	HARD LID
21A	JANITOR	HARD LID
22	BOY'S RESTROOM	HARD LID

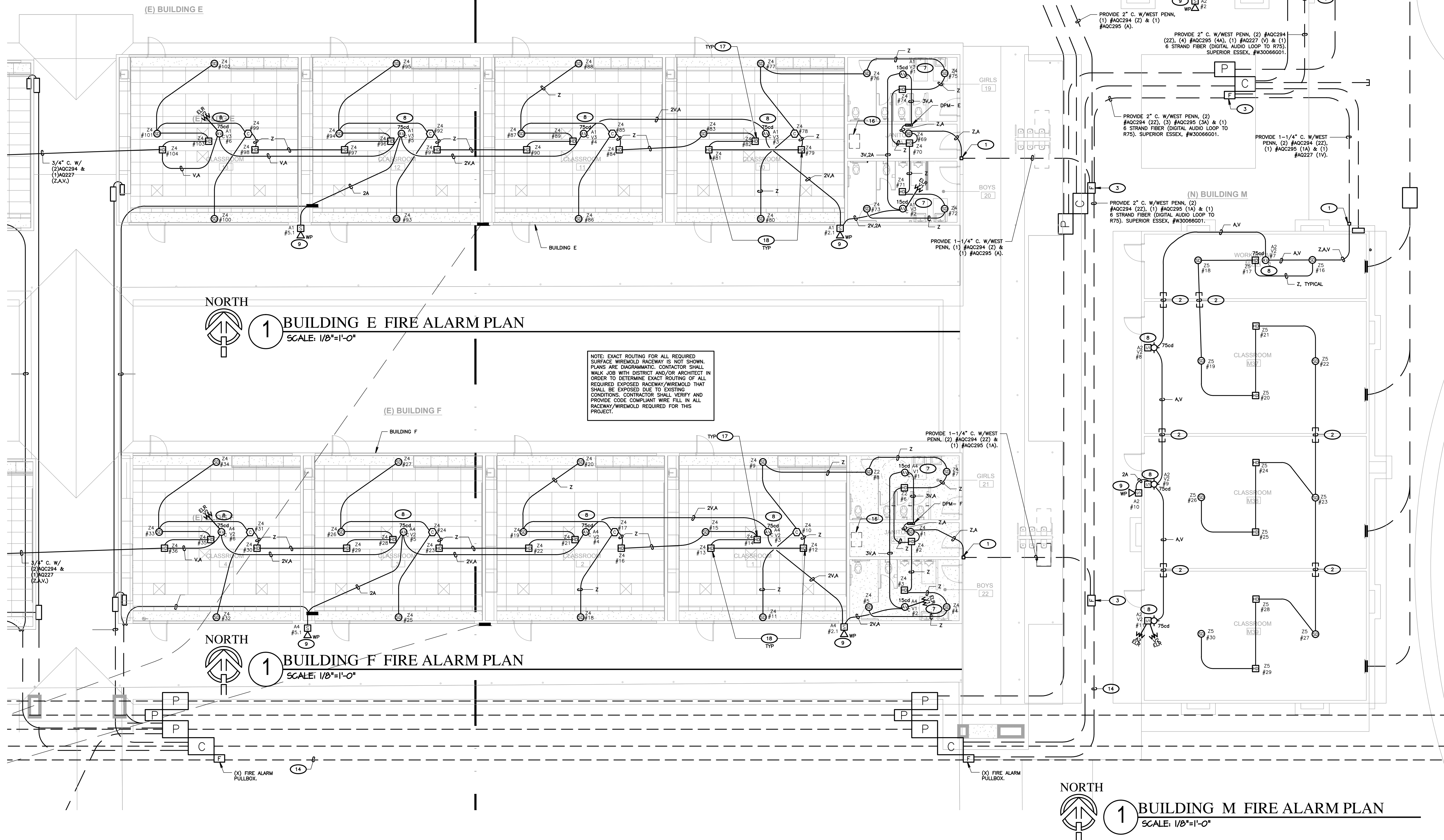
BLGD. M CEILING TYPE LEGEND		
ROOM NUMBER	ROOM NAME	CEILING TYPE
M37A	WORKROOM	T-BAR
M37	CLASSROOM	T-BAR
M38	CLASSROOM	T-BAR
M39	CLASSROOM	T-BAR

GENERAL NOTES

- SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR GRILLES.
- FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72, FIGURE 14.6.2.4 AND READ OUT VERIFICATION FORM FROM CENTRAL STATION. TEST SHALL ALSO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.H.J.).
- UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS (C.F.C. 110 AND 300.6).
- AUDIBLE DEVICES SHALL BE AT LEAST 15DBA ABOVE AVERAGE AMBIENT SOUND LEVEL, BUT NOT LESS THAN 75DBA AT 10' OR MORE THAN 110 DBA IN TOTAL, THROUGHOUT (NFPA 72 18.4.1 AND C.F.C. 907.6.2).
- AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN, CODE 3.
- VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND. (NFPA 72 18.5.2.3).
- PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
- MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION (NFPA 72 18.5.4.3.2(4)).
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.9).
- THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
- DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE DEVICES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED BUILDING WALLS.
- ALL JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
- FIRE ALARM WIRES SHALL BE COPPER TYPE THIN/THIN.
- ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
- WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
- JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED.
- ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED.
- CONTRACTOR SHALL FIELD VERIFY ALL DEVICES FOR ACCESSIBILITY. SOME DEVICES MAY NEED SURFACE RACEWAY (WIREMOLD) IF ACCESSIBILITY IS LIMITED.
- CONTRACTOR SHALL PROVIDE ALL WIRE, CABLES, J-BOXES, BACK-BOXES, FITTINGS, CONDUIT, SUPPORTS, WIREMOLD, ETC. FOR A COMPLETE & FUNCTIONING SYSTEM.

KEY NOTES (GENERAL)

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
 - PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
 - PROVIDE 10"x17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM" #8101700X, WITH #81017-51AH COVER BY, CHRISTY CONCRETE.
 - PROVIDE 1-1/2" C. W/2" WEST PENN. #AOC294 (22) & (1) WEST PENN. #AOC295 (1A).
 - PROVIDE 1-1/4" C. W/1" WEST PENN. #AOC294 (12) & (1) #AOC295 (1A) & (1) #AOC227 (V1).
 - SET SPEAKER FOR 1/4W.
 - NOTE: EXACT ROUTING FOR ALL REQUIRED SURFACE WIREMOLD RACEWAY IS NOT SHOWN. PLANS ARE DIAGNOSTIC. CONTRACTOR SHALL WALK JOB WITH DISTRICT AND/OR ARCHITECT IN ORDER TO DETERMINE EXACT ROUTING OF ALL REQUIRED EXPOSED RACEWAY/WIREMOLD THAT SHALL BE EXPOSED DUE TO EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY AND PROVIDE CODE COMPLIANT WIRE FILL IN ALL RACEWAY/WIREMOLD REQUIRED FOR THIS PROJECT.
 - EXISTING 2" C. PROVIDE WEST PENN. (2) #AOC294 (22) & (1) 6 STRAND FIBER (DIGITAL AUDIO LOOP TO R75). SUPERIOR ESSEX, #W30066001.
 - EXISTING 2" C. W/WEST PENN. (2) #AOC294 (12) & #AOC295 (1A).
 - EXISTING ATTIC ACCESS HATCH.
 - HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING.
 - HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON THE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.



AGENCY INFORMATION:

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BESSIE OWENS E.S. MODERNIZATION

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OPSC or OSHPD PROJ. NO.: NA

PROJECT NO.: 19122.01-38

DRAWN BY: VPZ

CHK'D BY: DF

ISSUE DATE: 1/28/2020

SHEET TITLE

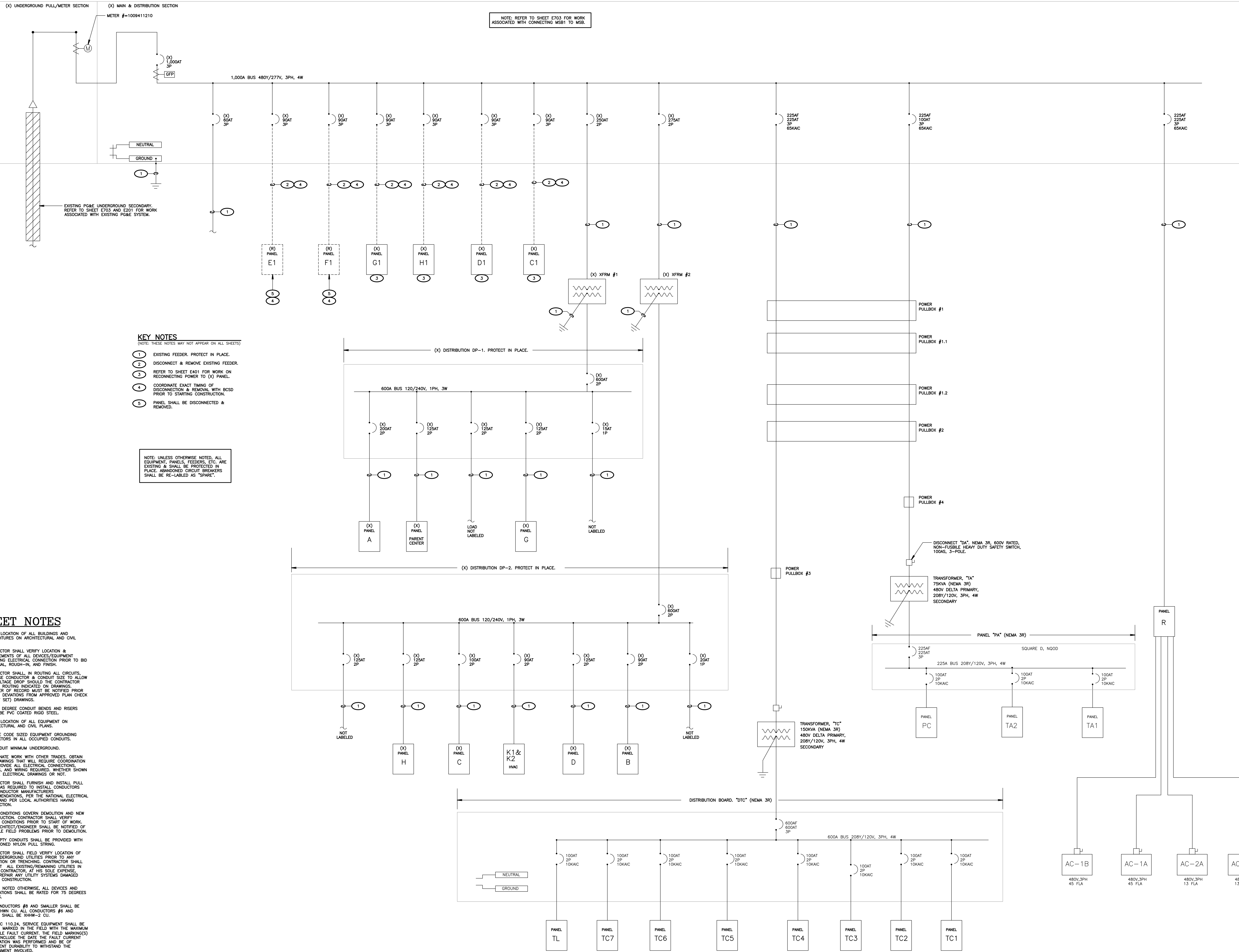
**FIRE ALARM PLAN
 BUILDING E, F, & M**

SHEET NUMBER

E609

CONSTRUCTION DOCUMENTS

EXISTING MAIN SWITCHBOARD 1 "MSB1", PROTECT IN PLACE.



NOTE: REFER TO SHEET E703 FOR WORK ASSOCIATED WITH CONNECTING MSB1 TO MSB.

KEY NOTES

- (1) EXISTING FEEDER. PROTECT IN PLACE. DISCONNECT & REMOVE EXISTING FEEDER.
(2) REFER TO SHEET E401 FOR WORK ON RECONNECTING POWER TO (X) PANEL.
(3) COORDINATE EXACT TIMING OF DISCONNECTION & REMOVAL WITH BESO PRIOR TO STARTING CONSTRUCTION.
(4) PANEL SHALL BE DISCONNECTED & REMOVED.

NOTE: UNLESS OTHERWISE NOTED, ALL EQUIPMENT, PANELS, FEEDERS, ETC. ARE EXISTING & SHALL BE PROTECTED IN PLACE. ABANDONED CIRCUIT BREAKERS SHALL BE RE-LABELLED AS "SPARE".

SHEET NOTES

- 1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
3. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
4. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
5. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
6. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. 1" CONDUIT MINIMUM UNDERGROUND.
8. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
9. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
10. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION.
11. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
12. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.
13. UNLESS NOTED OTHERWISE, ALL DEVICES AND TERMINATIONS SHALL BE RATED FOR 75 DEGREES CELSIUS.
14. ALL CONDUCTORS #8 AND SMALLER SHALL BE THIN/THIN CU; ALL CONDUCTORS #6 AND LARGER SHALL BE XHHW-2 CU.
15. PER DEC 110.24, SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
16. PER DEC 110.16, ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

1 SINGLE LINE DIAGRAM (EXISTING) SCALE: not to scale

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Table with project details: OPSC or OSHPD PROJ. NO., PROJECT NO., DRAWN BY, CHKD BY, ISSUE DATE, SHEET TITLE

SINGLE LINE DIAGRAM (EXISTING)

SHEET NUMBER

E700

CONSTRUCTION DOCUMENTS

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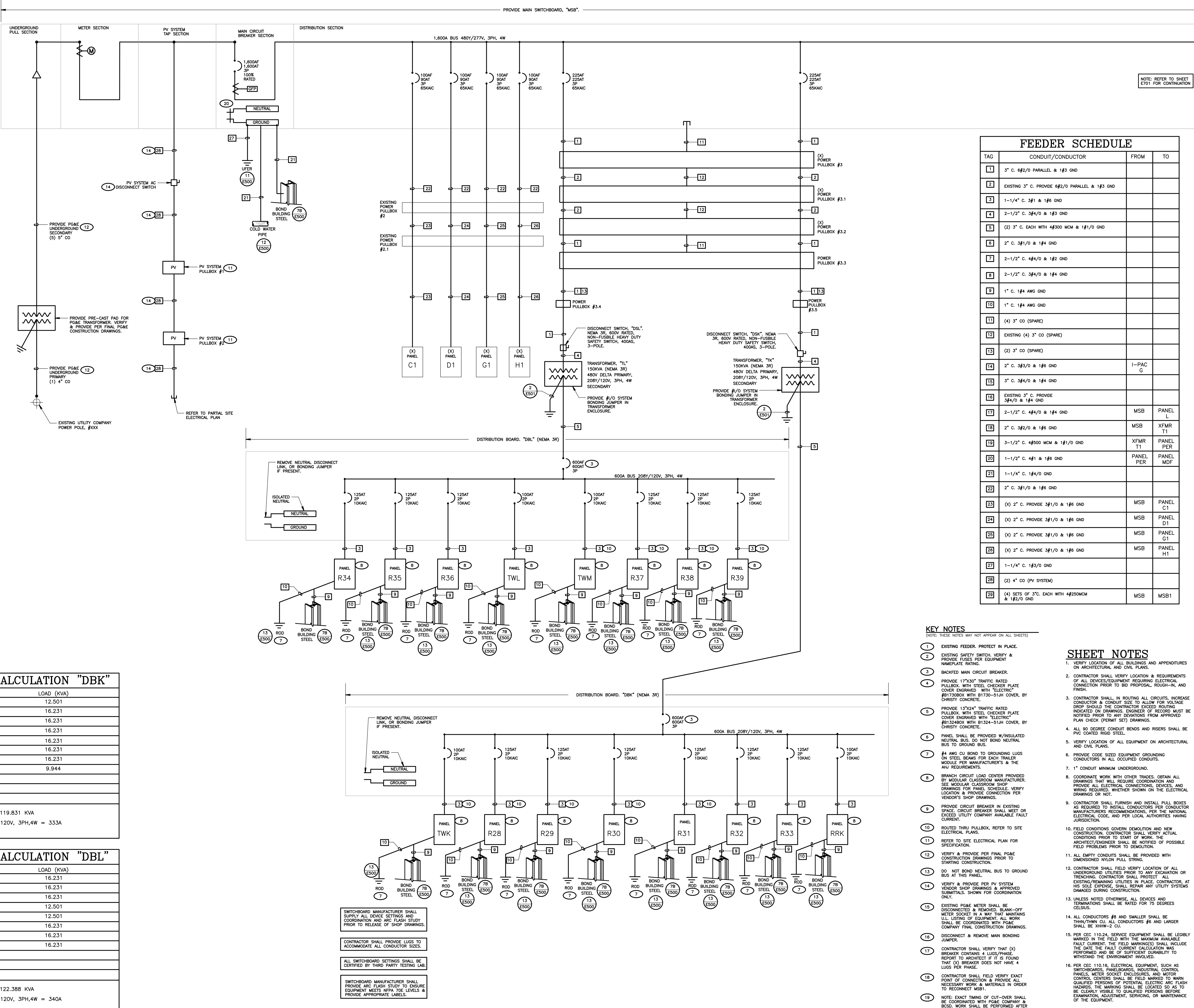
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OPSC or OSHPD PROJ. NO.: NA
PROJECT NO.: 19122.01-38
DRAWN BY: VPZ
CHKD BY: DF
ISSUE DATE: 1/29/2020

PARTIAL SINGLE LINE DIAGRAM SHEET #1

SHEET NUMBER

E701



FEEDER SCHEDULE			
TAG	CONDUIT/CONDUCTOR	FROM	TO
1	3" C. 6#2/0 PARALLEL & 1#3 GND		
2	EXISTING 3" C. PROVIDE 6#2/0 PARALLEL & 1#3 GND		
3	1-1/4" C. 3#1 & 1#6 GND		
4	2-1/2" C. 3#4/0 & 1#3 GND		
5	(2) 3" C. EACH WITH 4#300 MCM & 1#1/0 GND		
6	2" C. 3#1/0 & 1#4 GND		
7	2-1/2" C. 4#4/0 & 1#2 GND		
8	2-1/2" C. 3#4/0 & 1#4 GND		
9	1" C. 1#4 AWG GND		
10	1" C. 1#4 AWG GND		
11	(4) 3" CO (SPARE)		
12	EXISTING (4) 3" CO (SPARE)		
13	(2) 3" CO (SPARE)		
14	2" C. 3#3/0 & 1#6 GND	1-PAC	G
15	3" C. 3#4/0 & 1#4 GND		
16	EXISTING 3" C. PROVIDE 3#4/0 & 1#4 GND		
17	2-1/2" C. 4#4/0 & 1#4 GND	MSB	PANEL L
18	2" C. 3#2/0 & 1#6 GND	MSB	XFMR T1
19	3-1/2" C. 4#500 MCM & 1#1/0 GND	XFMR T1	PANEL PER
20	1-1/2" C. 4#1 & 1#6 GND	PANEL PER	PANEL MDF
21	1-1/4" C. 1#4 GND		
22	2" C. 3#1/0 & 1#6 GND		
23	(X) 2" C. PROVIDE 3#1/0 & 1#6 GND	MSB	PANEL C1
24	(X) 2" C. PROVIDE 3#1/0 & 1#6 GND	MSB	PANEL D1
25	(X) 2" C. PROVIDE 3#1/0 & 1#6 GND	MSB	PANEL G1
26	(X) 2" C. PROVIDE 3#1/0 & 1#6 GND	MSB	PANEL H1
27	1-1/4" C. 1#3 GND		
28	(2) 4" CO (PV SYSTEM)		
29	(4) SETS OF 3" C. EACH WITH 4#250MCM & 1#2/0 GND	MSB	MSB1

LOAD CALCULATION "DBK"	
DESCRIPTION	LOAD (KVA)
TWK	12.501
R28	16.231
R29	16.231
R30	16.231
R31	16.231
R32	16.231
R33	16.231
RRK	9.944
TOTAL LOAD = 119.831 KVA	
AMPS AT 208Y/120V, 3PH, 4W = 333A	

LOAD CALCULATION "DBL"	
DESCRIPTION	LOAD (KVA)
R34	16.231
R35	16.231
R36	16.231
TWL	12.501
TWM	12.501
R37	16.231
R38	16.231
R39	16.231
TOTAL LOAD = 122.388 KVA	
AMPS AT 208Y/120V, 3PH, 4W = 340A	

KEY NOTES

- 1 EXISTING FEEDER, PROTECT IN PLACE.
- 2 EXISTING SAFETY SWITCH, VERIFY & PROVIDE FUSES PER EQUIPMENT NAMEPLATE RATING.
- 3 BACKFED MAIN CIRCUIT BREAKER.
- 4 PROVIDE 177X203 TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC" #813240X WITH BY 130-51H COVER, BY CHRISTY CONCRETE.
- 5 PROVIDE 137X24 TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC" #813240X WITH BY 134-51H COVER, BY CHRISTY CONCRETE.
- 6 PANEL SHALL BE PROVIDED W/INSULATED NEUTRAL BUS, DO NOT BOND NEUTRAL BUS TO GROUND BUS.
- 7 #4 AWG CU BOND TO GROUNDING LUGS ON STEEL BEAMS FOR EACH TRAILER MODULE PER MANUFACTURER'S & THE AHJ REQUIREMENTS.
- 8 BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
- 9 PROVIDE CIRCUIT BREAKER IN EXISTING SPACE. CIRCUIT BREAKER SHALL MEET OR EXCEED UTILITY COMPANY AVAILABLE FAULT CURRENT.
- 10 ROUTED THRU PULLBOX, REFER TO SITE ELECTRICAL PLANS.
- 11 REFER TO SITE ELECTRICAL PLAN FOR SPECIFICATION.
- 12 VERIFY & PROVIDE PER FINAL PG&E CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION.
- 13 DO NOT BOND NEUTRAL BUS TO GROUND BUS AT THIS PANEL.
- 14 VERIFY & PROVIDE PER PV SYSTEM VENDOR SHOP DRAWINGS & APPROVED SUBMITTALS. SHOWN FOR COORDINATION ONLY.
- 15 EXISTING PG&E METER SHALL BE DISCONNECTED & REMOVED, BLANK-OFF METER SOCKETS IN A WAY THAT MAINTAINS ULL LISTING OF EQUIPMENT. ALL WORK SHALL BE COORDINATED WITH ROSE COMPANY FINAL CONSTRUCTION DRAWINGS.
- 16 DISCONNECT & REMOVE MAIN BONDING JUMPER.
- 17 CONTRACTOR SHALL VERIFY THAT (X) BREAKER CONTAINS 4 LUGS/PHASE. REPORT TO ARCHITECT IF IT IS FOUND THAT (X) BREAKER DOES NOT HAVE 4 LUGS PER PHASE.
- 18 CONTRACTOR SHALL FIELD VERIFY EXACT POINT OF CONNECTION & PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO RECONNECT MSB1.
- 19 NOTE: EXACT TIMING OF CUT-OVER SHALL BE COORDINATED WITH PG&E COMPANY & BIDDOR. WORK SHALL BE PERFORMED AFTER HOURS IN ORDER TO MINIMIZE DISRUPTION TO SCHOOL SCHEDULE.
- 20 NOTE: PROVIDE 250Kcmil MAIN BONDING JUMPER IF FACTORY MAIN BONDING JUMPER NOT PRESENT.

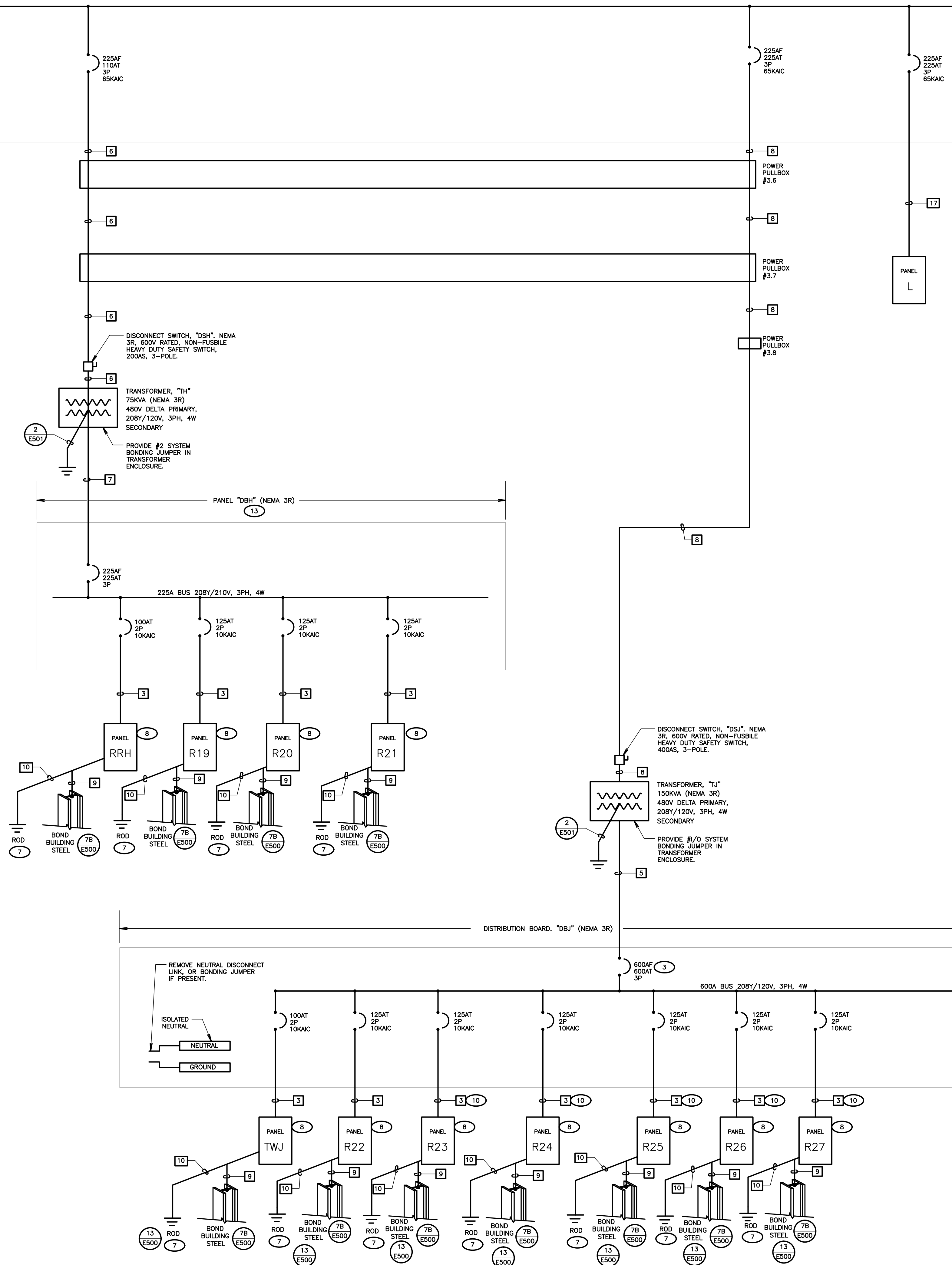
SHEET NOTES

- 1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS.
- 2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
- 3. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- 4. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- 5. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- 6. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 7. 1" CONDUIT MINIMUM UNDERGROUND.
- 8. COORDINATE WORK WITH OTHER TRADES, OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- 9. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 10. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION.
- 11. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
- 12. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.
- 13. UNLESS NOTED OTHERWISE, ALL DEVICES AND TERMINATIONS SHALL BE RATED FOR 75 DEGREES CELSIUS.
- 14. ALL CONDUCTORS #8 AND SMALLER SHALL BE THIN-WALL CU. ALL CONDUCTORS #6 AND LARGER SHALL BE XHHW-2 CU.
- 15. PER NEC 110.24, SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
- 16. PER NEC 110.16, ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

1 PARTIAL SINGLE LINE DIAGRAM (SHEET #1)
SCALE: NOT TO SCALE

CONSTRUCTION DOCUMENTS

NOTE: REFER TO SHEET E701 FOR CONTINUATION

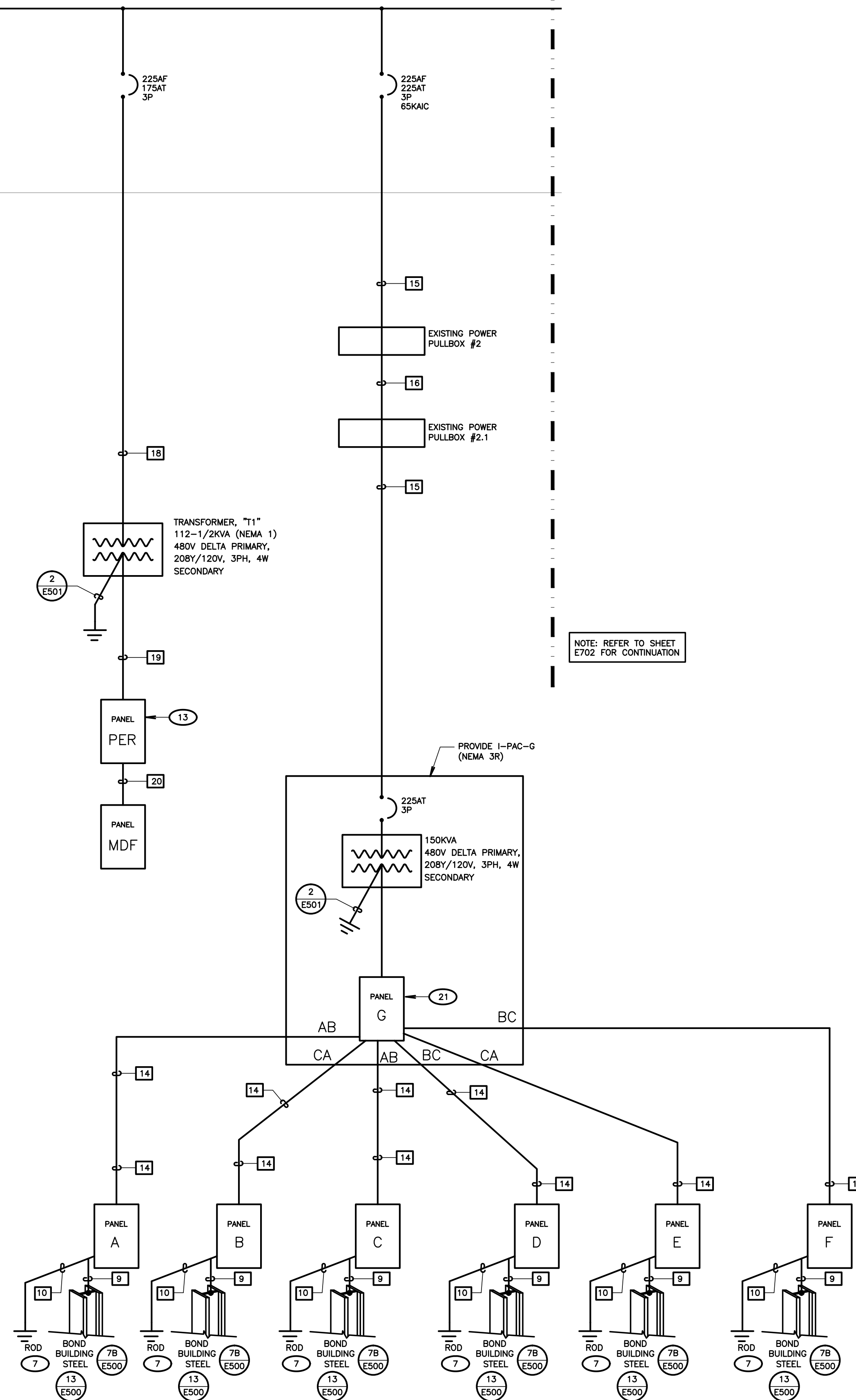


DESCRIPTION	LOAD (KVA)
RRH	9.944
R19	16.231
R20	16.231
R21	16.231
TOTAL LOAD	58.637 KVA
AMPS AT 208Y/120V, 3PH,4W	163A

DESCRIPTION	LOAD (KVA)
TWJ	12.501
R22	16.231
R23	16.231
R24	16.231
R25	16.231
R26	16.231
R27	16.231
TOTAL LOAD	109.887 KVA
AMPS AT 208Y/120V, 3PH,4W	306A

DESCRIPTION	LOAD (KVA)
A	18.33
B	22.945
C	22.675
D	21.985
E	18.310
F	20.005
TOTAL LOAD	124.25 KVA
AMPS AT 208Y/120V, 3PH,4W	346A

1 PARTIAL SINGLE LINE DIAGRAM (SHEET #2)
SCALE: NOT TO SCALE



TAG	CONDUIT/CONDUCTOR	FROM	TO
1	3" C. 6#2/0 PARALLEL & 1#3 GND		
2	EXISTING 3" C. PROVIDE 6#2/0 PARALLEL & 1#3 GND		
3	1-1/4" C. 3#1 & 1#6 GND		
4	2-1/2" C. 3#4/0 & 1#3 GND		
5	(2) 3" C. EACH WITH 4#300 MCM & 1#1/0 GND		
6	2" C. 3#1/0 & 1#4 GND		
7	2-1/2" C. 4#4/0 & 1#2 GND		
8	2-1/2" C. 3#4/0 & 1#4 GND		
9	1" C. 1#4 AWG GND		
10	1" C. 1#4 AWG GND		
11	(4) 3" CO (SPARE)		
12	EXISTING (4) 3" CO (SPARE)		
13	(2) 3" CO (SPARE)		
14	2" C. 3#3/0 & 1#6 GND	I-PAC-G	
15	3" C. 3#4/0 & 1#4 GND		
16	EXISTING 3" C. PROVIDE 3#4/0 & 1#4 GND		
17	2-1/2" C. 4#4/0 & 1#4 GND	MSB	PANEL L
18	2" C. 3#2/0 & 1#6 GND	MSB	XFMR T1
19	3-1/2" C. 4#500 MCM & 1#1/0 GND	XFMR T1	PANEL PER
20	1-1/2" C. 4#1 & 1#6 GND	PANEL PER	PANEL MDF

SHEET NOTES

- VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP. SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING, ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 1" CONDUIT MINIMUM UNDERGROUND.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- FIELD CONDITIONS GOVERNING DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH UNDIMENSIONED NYLON PULL STRING.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.
- UNLESS NOTED OTHERWISE, ALL DEVICES AND TERMINATIONS SHALL BE RATED FOR 75 DEGREES CELSIUS.
- ALL CONDUCTORS #6 AND SMALLER SHALL BE THIN/THIN CU. ALL CONDUCTORS #6 AND LARGER SHALL BE XHHW-2 CU.
- PER NEC 110.24, SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKINGS SHALL INCLUDE THE DATE THE MOST CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
- PER NEC 110.16, ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

KEY NOTES

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- EXISTING FEEDER. PROTECT IN PLACE.
 - EXISTING SAFETY SWITCH. VERIFY & PROVIDE FUSES PER EQUIPMENT NAMEPLATE RATING.
 - BACKFED MAIN CIRCUIT BREAKER.
 - PROVIDE 17"x30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC" #113050BX WITH B1730-51JH COVER, BY CHESTY CONCRETE.
 - PROVIDE 13"x24" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC" #113240BX WITH B1730-51JH COVER, BY CHESTY CONCRETE.
 - PANEL SHALL BE PROVIDED W/INSULATED NEUTRAL BUS. DO NOT BOND NEUTRAL BUS TO GROUND BUS.
 - #4 AWG CU BOND TO GROUNDING LUGS ON STEEL BEAMS FOR EACH TRAILER MODULE PER MANUFACTURER'S & THE AHJ REQUIREMENTS.
 - BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
 - PROVIDE CIRCUIT BREAKER IN EXISTING SPACE. CIRCUIT BREAKER SHALL MEET OR EXCEED UTILITY COMPANY AVAILABLE FAULT CURRENT.
 - ROUTED THRU PULLBOX. REFER TO SITE ELECTRICAL PLANS.
 - REFER TO SITE ELECTRICAL PLAN FOR SPECIFICATION.
 - VERIFY & PROVIDE PER FINAL P&E CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION.
 - DO NOT BOND NEUTRAL BUS TO GROUND BUS AT THIS PANEL.
 - VERIFY & PROVIDE PER PV SYSTEM VENDOR SHOP DRAWINGS & APPROVED SUBMITTALS, SHOWN FOR COORDINATION ONLY.
 - EXISTING P&E METER SHALL BE DISCONNECTED & REMOVED. BLANK-OFF METER SOCKET IN A WAY THAT MAINTAINS UL LISTING OF EQUIPMENT. ALL WORK SHALL BE COORDINATED WITH P&E COMPANY FINAL CONSTRUCTION DRAWINGS.
 - DISCONNECT & REMOVE MAIN BONDING JUMPER.
 - CONTRACTOR SHALL VERIFY THAT (X) BREAKER CONTAINS 4 LUGS/PHASE. REPORT TO ARCHITECT IF IT IS FOUND THAT (X) BREAKER DOES NOT HAVE 4 LUGS PER PHASE.
 - CONTRACTOR SHALL FIELD VERIFY EXACT POINT OF CONNECTION & PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO RECONNECT MSB1.
 - NOTE: EXACT TIMING OF CUT-OVER SHALL BE COORDINATED WITH P&E COMPANY & BICED. WORK SHALL BE PERFORMED AFTER HOURS IN ORDER TO MINIMIZE DISRUPTION TO SCHOOL SCHEDULE.
 - NOTE: PROVIDE 250Kcmil MAIN BONDING JUMPER IF FACTORY MAIN BONDING JUMPER NOT PRESENT.
 - PROVIDE (6) 200/2P CIRCUIT BREAKERS IN THIS PANEL IN ORDER TO FEED PANELS.

AGENCY INFORMATION:

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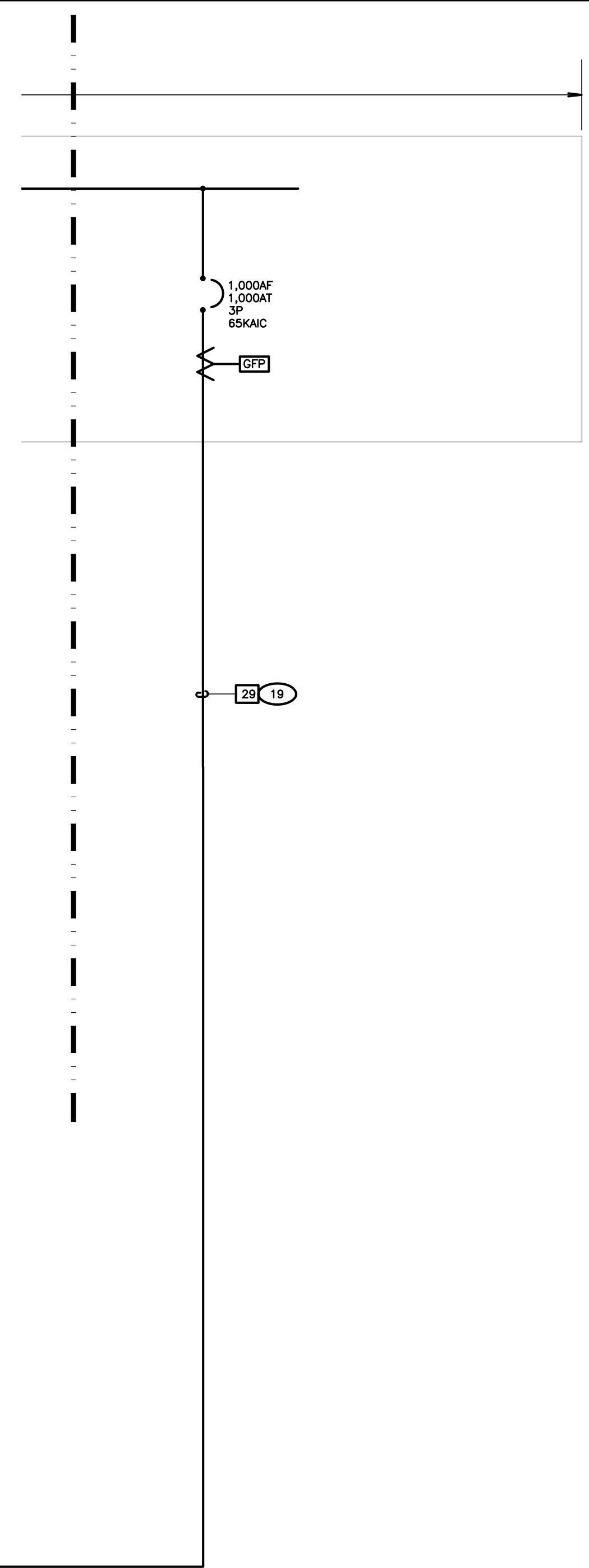
BESSIE OWENS E.S. MODERNIZATION
815 POTTOMAC AVE., BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.: NA
PROJECT NO.: 19122.01-38
DRAWN BY: VPZ
CHKD BY: DF
ISSUE DATE: 1/29/2020

SHEET TITLE
PARTIAL SINGLE LINE DIAGRAM SHEET #2

SHEET NUMBER
E702

CONSTRUCTION DOCUMENTS



- KEY NOTES**
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
1. EXISTING FEEDER. PROTECT IN PLACE.
 2. EXISTING SAFETY SWITCH. VERIFY & PROVIDE FUSES PER EQUIPMENT NAMEPLATE RATING.
 3. BACKED MAIN CIRCUIT BREAKER.
 4. PROVIDE 17"x30" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC" #8173500 WITH B1730-SLJH COVER, BY CHRISTY CONCRETE.
 5. PROVIDE 13"x24" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC" #8132480X WITH B1324-SLJH COVER, BY CHRISTY CONCRETE.
 6. PANEL SHALL BE PROVIDED W/INSULATED NEUTRAL BUS. DO NOT BOND NEUTRAL BUS TO GROUND BUS.
 7. #4 AWG CU BOND TO GROUNDING LUGS ON STEEL BEAMS FOR EACH TRAILER MODULE PER MANUFACTURER'S & THE AHJ REQUIREMENTS.
 8. BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
 9. PROVIDE CIRCUIT BREAKER IN EXISTING SPACE. CIRCUIT BREAKER SHALL MEET OR EXCEED UTILITY COMPANY AVAILABLE FAULT CURRENT.
 10. ROUTED THRU PULLBOX, REFER TO SITE ELECTRICAL PLANS.
 11. REFER TO SITE ELECTRICAL PLAN FOR SPECIFICATION.
 12. VERIFY & PROVIDE PER FINAL PG&E CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION.
 13. DO NOT BOND NEUTRAL BUS TO GROUND BUS AT THIS PANEL.
 14. VERIFY & PROVIDE PER PV SYSTEM VENDOR SHOP DRAWINGS & APPROVED SUBMITTALS, SHOWN FOR COORDINATION ONLY.
 15. EXISTING PG&E METER SHALL BE DISCONNECTED & REMOVED. BLANK-OFF METER SOCKET IN A WAY THAT MAINTAINS U.L. LISTING OF EQUIPMENT. ALL WORK SHALL BE COORDINATED WITH PG&E COMPANY FINAL CONSTRUCTION DRAWINGS.
 16. DISCONNECT & REMOVE MAIN BONDING JUMPER.
 17. CONTRACTOR SHALL VERIFY THAT (X) BREAKER CONTAINS 4 LUGS/PHASE. REPORT TO ARCHITECT IF IT IS FOUND THAT (X) BREAKER DOES NOT HAVE 4 LUGS PER PHASE.
 18. CONTRACTOR SHALL FIELD VERIFY EXACT POINT OF CONNECTION & PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO RECONNECT MSB1.
 19. NOTE: EXACT TIMING OF CUT-OVER SHALL BE COORDINATED WITH PG&E COMPANY & BCSO. WORK SHALL BE PERFORMED AFTER HOURS IN ORDER TO MINIMIZE DISRUPTION TO SCHOOL SCHEDULE.
 20. NOTE: PROVIDE 250V/40A MAIN BONDING JUMPER IF FACTORY MAIN BONDING JUMPER NOT PRESENT.
 21. PROVIDE (6) 200/30P CIRCUIT BREAKERS IN THIS PANEL IN ORDER TO FEED PANELS.

FEEDER SCHEDULE			
TAG	CONDUIT/CONDUCTOR	FROM	TO
1	3" C. 6#2/0 PARALLEL & 1#3 GND		
2	EXISTING 3" C. PROVIDE 6#2/0 PARALLEL & 1#3 GND		
3	1-1/4" C. 3#1 & 1#6 GND		
4	2-1/2" C. 3#4/0 & 1#3 GND		
5	(2) 3" C. EACH WITH 4#300 MCM & 1#1/0 GND		
6	2" C. 3#1/0 & 1#4 GND		
7	2-1/2" C. 4#4/0 & 1#2 GND		
8	2-1/2" C. 3#4/0 & 1#4 GND		
9	1" C. 1#4 AWG GND		
10	1" C. 1#4 AWG GND		
11	(4) 3" CO (SPARE)		
12	EXISTING (4) 3" CO (SPARE)		
13	(2) 3" CO (SPARE)		
14	2" C. 3#5/0 & 1#6 GND	I-PAC	G
15	3" C. 3#4/0 & 1#4 GND		
16	EXISTING 3" C. PROVIDE 3#4/0 & 1#4 GND		
17	2-1/2" C. 4#4/0 & 1#4 GND	MSB	PANEL L
18	2" C. 3#2/0 & 1#6 GND	MSB	XFMR T1
19	3-1/2" C. 4#500 MCM & 1#1/0 GND	XFMR T1	PANEL PER
20	1-1/2" C. 4#1 & 1#6 GND	PANEL PER	PANEL MDF
21	1-1/4" C. 1#4/0 GND		
22	2" C. 3#1/0 & 1#6 GND		
23	(X) 2" C. PROVIDE 3#1/0 & 1#6 GND	MSB	PANEL G1
24	(X) 2" C. PROVIDE 3#1/0 & 1#6 GND	MSB	PANEL D1
25	(X) 2" C. PROVIDE 3#1/0 & 1#6 GND	MSB	PANEL G1
26	(X) 2" C. PROVIDE 3#1/0 & 1#6 GND	MSB	PANEL H1
27	1-1/4" C. 1#3/0 GND		
28	(2) 4" CO (PV SYSTEM)		
29	(4) SETS OF 3" C. EACH WITH 4#250MCM & 1#2/0 GND	MSB	MSB1

- SHEET NOTES**
1. VERIFY LOCATION OF ALL BUILDINGS AND APPURTENANCES ON ARCHITECTURAL AND CIVIL PLANS.
 2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
 3. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUIT & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
 4. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIBBON STEEL.
 5. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
 6. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCURRED CONDUITS.
 7. 1" CONDUIT MINIMUM UNDERGROUND.
 8. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
 9. CONTRACTOR SHALL FURNISH AND INSTALL FULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
 10. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.
 11. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
 12. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.
 13. UNLESS NOTED OTHERWISE, ALL DEVICES AND TERMINATORS SHALL BE RATED FOR 75 DEGREES CELSIUS.
 14. ALL CONDUCTORS #6 AND SMALLER SHALL BE THRU/THRU CU. ALL CONDUCTORS #6 AND LARGER SHALL BE THRU-2 CU.
 15. PER NEC 110.24, SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKINGS SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
 16. PER NEC 110.16, ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED 30 AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS E.S. MODERNIZATION
 815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.:	NA
PROJECT NO.:	19122.01-38
DRAWN BY:	VPZ
CHKD BY:	DF
ISSUE DATE:	1/28/2020

SHEET TITLE

PARTIAL SINGLE LINE DIAGRAM SHEET #3

SHEET NUMBER

E703

1 PARTIAL SINGLE LINE DIAGRAM (SHEET #3)
 SCALE: NOT TO SCALE

CONSTRUCTION DOCUMENTS

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BESSIE OWENS E.S. MODERNIZATION

815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.: NA
 PROJECT NO.: 19122-01-38
 DRAWN BY: VPZ
 CHKD BY: DF
 ISSUE DATE: 1/28/2020

SHEET TITLE

PANEL SCHEDULES

SHEET NUMBER

E704

PANEL L		VOLTAGE	480Y/ 277V	PHASE	3	WIRE	4	MAIN ENCL. SURFACE	MAIN LUGS										
SOURCE MSB		A.I.C.	14,000	ENCLOSURE MOUNTING		BUS AMPERE RATING: 225		NEMA 3R											
PANEL LOCATION ELEC. ROOM																			
C/K/T	VA LOAD	LOAD DESCRIPTION	C/L	OUTLETS	CIRCUIT BREAKER	BUS	CIRCUIT BREAKER	OUTLETS	LOAD DESCRIPTION	VA LOAD	C/K/T								
LINE A	LINE B	LINE C	MIS	REC	LTS	POL	TRIP	A	B	C	TRIP	POL	LTS	REC	MIS	LINE A	LINE B	LINE C	
1	540	20														500			2
NOTES:																			

PANEL MDF		VOLTAGE	208Y/ 120V	PHASE	3	WIRE	4	MAIN ENCL. SURFACE	MAIN LUGS										
SOURCE PANEL PER		A.I.C.	10,000	ENCLOSURE MOUNTING		BUS AMPERE RATING: 225		NEMA 1											
PANEL LOCATION MDF ROOM																			
C/K/T	VA LOAD	LOAD DESCRIPTION	C/L	OUTLETS	CIRCUIT BREAKER	BUS	CIRCUIT BREAKER	OUTLETS	LOAD DESCRIPTION	VA LOAD	C/K/T								
LINE A	LINE B	LINE C	MIS	REC	LTS	POL	TRIP	A	B	C	TRIP	POL	LTS	REC	MIS	LINE A	LINE B	LINE C	
1																1500			2
NOTES: O PROVIDE RED HANDLE CIRCUIT BREAKER WITH LOCK-ON DEVICE																			

PANEL PER		VOLTAGE	208Y/ 120V	PHASE	3	WIRE	4	MAIN ENCL. SURFACE	MAIN LUGS										
SOURCE XFMR T1		A.I.C.	10,000	ENCLOSURE MOUNTING		BUS AMPERE RATING: 400		NEMA 1											
PANEL LOC/ ELEC. RM.																			
C/K/T	VA LOAD	LOAD DESCRIPTION	C/L	OUTLETS	CIRCUIT BREAKER	BUS	CIRCUIT BREAKER	OUTLETS	LOAD DESCRIPTION	VA LOAD	C/K/T								
LINE A	LINE B	LINE C	MIS	REC	LTS	POL	TRIP	A	B	C	TRIP	POL	LTS	REC	MIS	LINE A	LINE B	LINE C	
1	3883															180			2
NOTES:																			

PANEL PP1		VOLTAGE	240V/ 120V	PHASE	1	WIRE	3	MAIN ENCL. SURFACE	MAIN LUGS										
SOURCE MSB2		A.I.C.	10,000	ENCLOSURE MOUNTING		BUS AMPERE RATING: 225		NEMA 3R											
PANEL LOCATION																			
C/K/T	VA LOAD	LOAD DESCRIPTION	C/L	OUTLETS	CIRCUIT BREAKER	BUS	CIRCUIT BREAKER	OUTLETS	LOAD DESCRIPTION	VA LOAD	C/K/T								
LINE A	LINE B	LINE C	MIS	REC	LTS	POL	TRIP	A	B	C	TRIP	POL	LTS	REC	MIS	LINE A	LINE B	LINE C	
1																100			2
NOTES:																			

EXISTING PANEL GENERAL NOTES:
 1. UON, ALL LOAD DESCRIPTIONS ARE EXISTING.
 2. UON, ALL CIRCUIT BREAKERS DESIGNATED IN PANEL SCHEDULE ARE EXISTING.

PANEL PP2		VOLTAGE	240V/ 120V	PHASE	1	WIRE	3	MAIN ENCL. SURFACE	MAIN LUGS										
SOURCE MSB2		A.I.C.	10,000	ENCLOSURE MOUNTING		BUS AMPERE RATING: 225		NEMA 3R											
PANEL LOCATION																			
C/K/T	VA LOAD	LOAD DESCRIPTION	C/L	OUTLETS	CIRCUIT BREAKER	BUS	CIRCUIT BREAKER	OUTLETS	LOAD DESCRIPTION	VA LOAD	C/K/T								
LINE A	LINE B	LINE C	MIS	REC	LTS	POL	TRIP	A	B	C	TRIP	POL	LTS	REC	MIS	LINE A	LINE B	LINE C	
1																100			2
NOTES:																			

EXISTING PANEL GENERAL NOTES:
 1. UON, ALL LOAD DESCRIPTIONS ARE EXISTING.
 2. UON, ALL CIRCUIT BREAKERS DESIGNATED IN PANEL SCHEDULE ARE EXISTING.

PANEL H1		VOLTAGE	480Y/ 277V	PHASE	3	WIRE	4	MAIN ENCL. SURFACE	MAIN LUGS										
SOURCE MSB2		A.I.C.	14,000	ENCLOSURE MOUNTING		BUS AMPERE RATING: 225		NEMA 3R											
PANEL LOC/BLDG BLDG H ROOF																			
C/K/T	VA LOAD	LOAD DESCRIPTION	C/L	OUTLETS	CIRCUIT BREAKER	BUS	CIRCUIT BREAKER	OUTLETS	LOAD DESCRIPTION	VA LOAD	C/K/T								
LINE A	LINE B	LINE C	MIS	REC	LTS	POL	TRIP	A	B	C	TRIP	POL	LTS	REC	MIS	LINE A	LINE B	LINE C	
1	2855															15			2
NOTES:																			

EXISTING PANEL GENERAL NOTES:
 1. UON, ALL LOAD DESCRIPTIONS ARE EXISTING.
 2. UON, ALL CIRCUIT BREAKERS DESIGNATED IN PANEL SCHEDULE ARE EXISTING.

PANEL G1		VOLTAGE	480Y/ 277V	PHASE	3	WIRE	4	MAIN ENCL. SURFACE	MAIN LUGS										
SOURCE MSB2		A.I.C.	14,000	ENCLOSURE MOUNTING		BUS AMPERE RATING: 225		NEMA 3R											
PANEL LOC/BLDG BLDG G ROOF																			
C/K/T	VA LOAD	LOAD DESCRIPTION	C/L	OUTLETS	CIRCUIT BREAKER	BUS	CIRCUIT BREAKER	OUTLETS	LOAD DESCRIPTION	VA LOAD	C/K/T								
LINE A	LINE B	LINE C	MIS	REC	LTS	POL	TRIP	A	B	C	TRIP	POL	LTS	REC	MIS	LINE A	LINE B	LINE C	
1	2855															15			2
NOTES:																			

EXISTING PANEL GENERAL NOTES:
 1. UON, ALL LOAD DESCRIPTIONS ARE EXISTING.
 2. UON, ALL CIRCUIT BREAKERS DESIGNATED IN PANEL SCHEDULE ARE EXISTING.

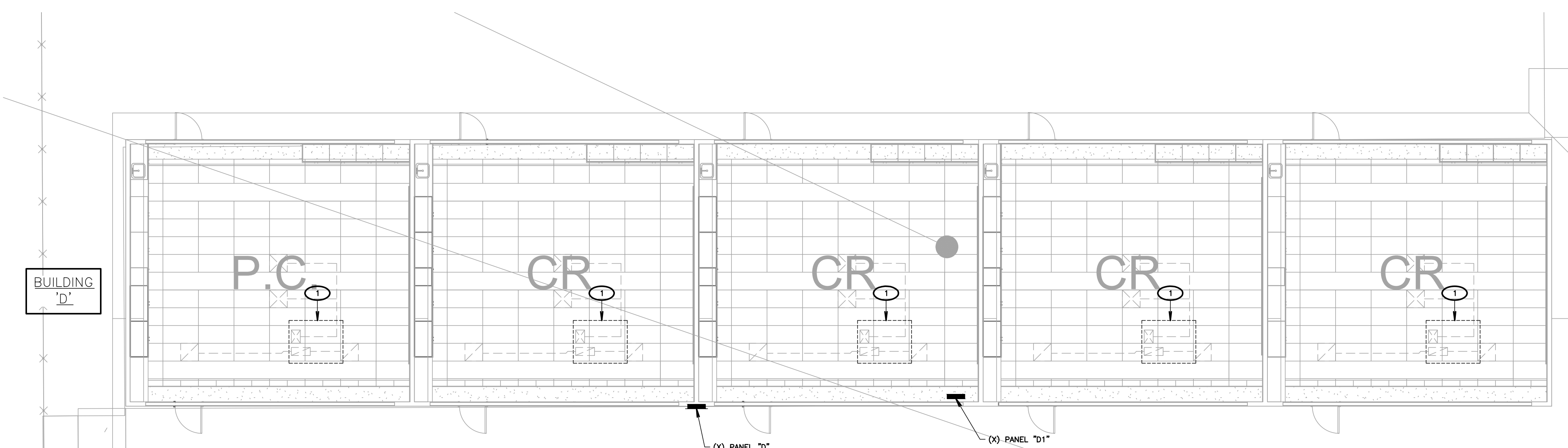
PANEL D1		VOLTAGE	480Y/ 277V	PHASE	3	WIRE	4	MAIN ENCL. SURFACE	MAIN LUGS										
SOURCE MSB2		A.I.C.	14,000	ENCLOSURE MOUNTING		BUS AMPERE RATING: 225		NEMA 3R											
PANEL LOC/BLDG BLDG D ROOF																			
C/K/T	VA LOAD	LOAD DESCRIPTION	C/L	OUTLETS	CIRCUIT BREAKER	BUS	CIRCUIT BREAKER	OUTLETS	LOAD DESCRIPTION	VA LOAD	C/K/T								
LINE A	LINE B	LINE C	MIS	REC	LTS	POL	TRIP	A	B	C	TRIP	POL	LTS	REC	MIS	LINE A	LINE B	LINE C	
1	2855															15			2
NOTES:																			

EXISTING PANEL GENERAL NOTES:
 1. UON, ALL LOAD DESCRIPTIONS ARE EXISTING.
 2. UON, ALL CIRCUIT BREAKERS DESIGNATED IN PANEL SCHEDULE ARE EXISTING.

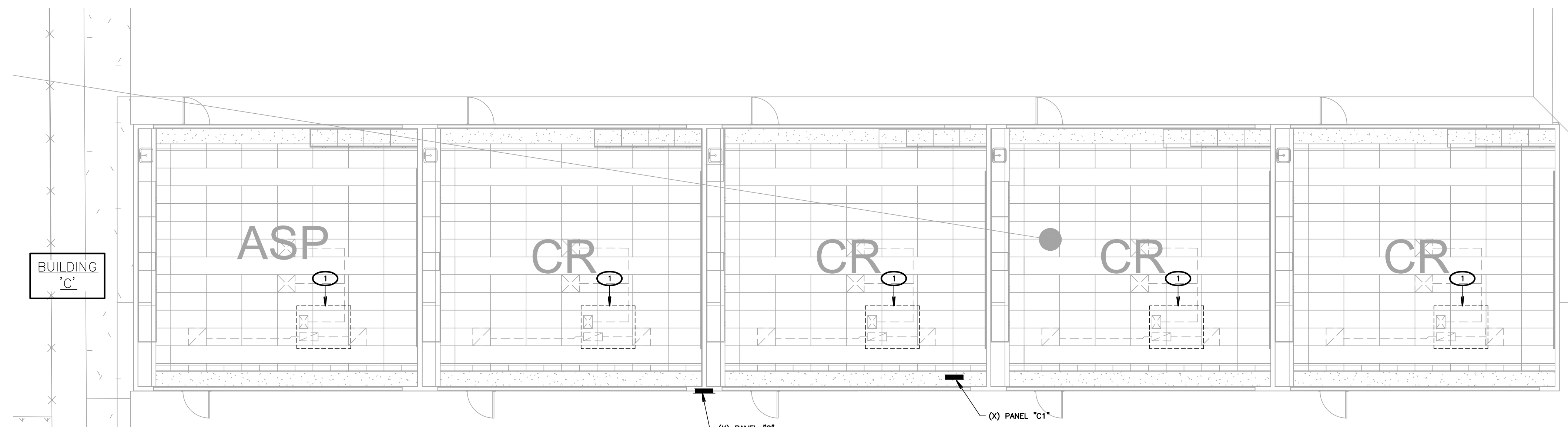
PANEL C1		VOLTAGE	480Y/ 277V	PHASE	3	WIRE	4	MAIN ENCL. SURFACE	MAIN LUGS										
SOURCE MSB2		A.I.C.	14,000	ENCLOSURE MOUNTING		BUS AMPERE RATING: 225		NEMA 3R											
PANEL LOC/BLDG BLDG C ROOF																			
C/K/T	VA LOAD	LOAD DESCRIPTION	C/L	OUTLETS	CIRCUIT BREAKER	BUS	CIRCUIT BREAKER	OUTLETS	LOAD DESCRIPTION	VA LOAD	C/K/T								
LINE A	LINE B	LINE C	MIS	REC	LTS	POL	TRIP	A	B	C	TRIP	POL	LTS	REC	MIS	LINE A	LINE B	LINE C	
1	2855															15			2
NOTES:																			

EXISTING PANEL GENERAL NOTES:
 1. UON, ALL LOAD DESCRIPTIONS ARE EXISTING.
 2. UON, ALL CIRCUIT BREAKERS DESIGNATED IN PANEL SCHEDULE ARE EXISTING.

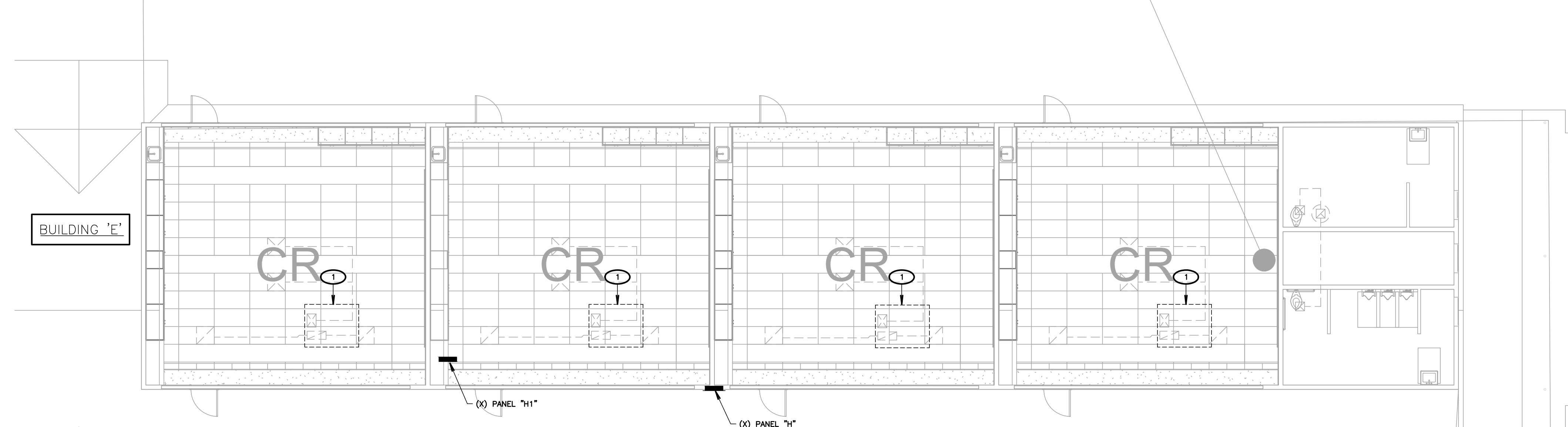
CONSTRUCTION DOCUMENTS



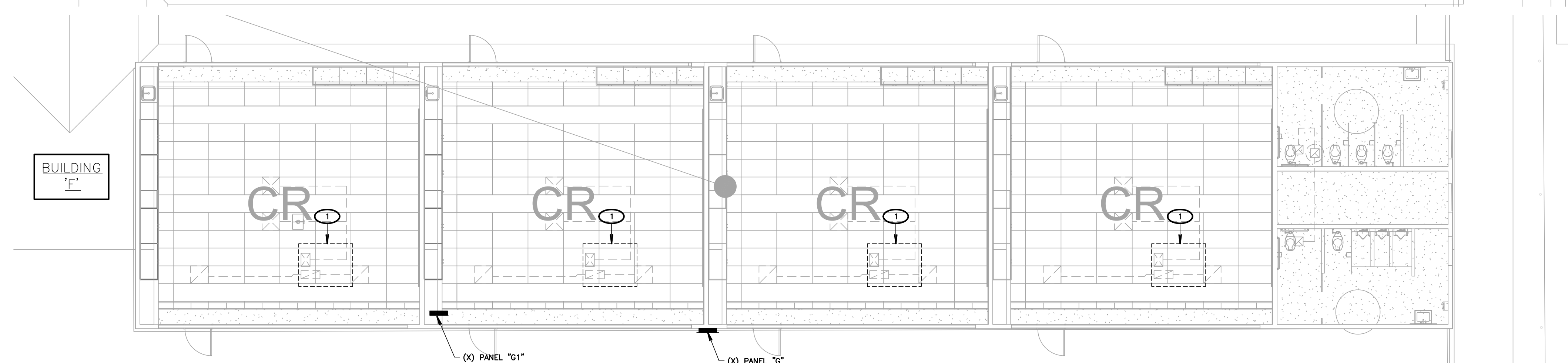
1 MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION PLAN (BUILDING D)
SCALE: 1/8"=1'-0"



2 MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION PLAN (BUILDING C)
SCALE: 1/8"=1'-0"



3 MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION PLAN (BUILDING E)
SCALE: 1/8"=1'-0"



4 MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION PLAN (BUILDING F)
SCALE: 1/8"=1'-0"

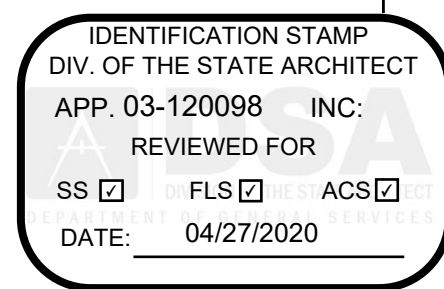
MECHANICAL PLAN SHEET NOTES

1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
2. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
3. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
5. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER THE NATIONAL ELECTRICAL CODE.
6. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
7. PROVIDE ALL DEVICES AND CONNECTIONS AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
8. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON MECHANICAL (HVAC) UNIT.
9. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN, AND INSTALLATION.
10. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEERS OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
11. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.
12. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
13. 3/4" CONDUIT MINIMUM, UN.
14. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
15. VERIFY AND PROVIDE CONTROLS TO ALL UNITS, PER MECHANICAL CONTRACTOR APPROVED SHOP DRAWINGS AND SUBMITTALS.

KEY NOTES

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
1. DISCONNECT & REMOVE ALL ELECTRICAL ASSOCIATED WITH ROOFTOP HVAC UNIT. VERIFY ALL DEMOLITION WITH MECHANICAL DRAWINGS PRIOR TO STARTING CONSTRUCTION.

AGENCY INFORMATION:



SEAL

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REVISIONS			
NO.	DATE SUBMITTED	DATE APPROVED	DESCRIPTION

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BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS E.S. MODERNIZATION
815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.	NA
PROJECT NO.	19122-01-38
DRAWN BY:	VPZ
CHKD BY:	DF
ISSUE DATE:	1/28/2020

SHEET TITLE
MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION PLAN, BLDG C,D,E & F

SHEET NUMBER

E800

CONSTRUCTION DOCUMENTS

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (Revised 04/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 NRCC-LTO-01-E
 Outdoor Lighting
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

A. General Information

Project Address: 815 POTOMAC AVE. BAKERSFIELD, CA. 93307
 Total Illuminated Hardscape Area:
 Phase of Construction: New Construction Addition Alteration
 Outdoor Lighting Zone (LZ) LZ-1 LZ-2 LZ-3 LZ-4
 I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

B. Lighting Compliance Documents (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

NRCC-LTO-01-E Certificate of Compliance
 NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance
 NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance
 NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power

Watts	
01	Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2.

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (Revised 04/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 NRCC-LTO-01-E
 Outdoor Lighting
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: DALE FERRANTI
 Signature: Dale Ferranti
 Date Signed: 9/30/2019
 Company: FERRANTI ENGINEERING CONSULTANTS
 Address: 1211 MARICOPA HWY. SUITE 250
 City/State/Zip: OJAI, CA 93023
 Phone: (805) 705-4772

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: DALE FERRANTI
 Signature: Dale Ferranti
 Date Signed: 9/30/2019
 Company: FERRANTI ENGINEERING CONSULTANTS
 Address: 1211 MARICOPA HWY. SUITE 250
 City/State/Zip: OJAI, CA 93023
 Phone: (805) 705-4772

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 CEC-NRCC-LTO-02-E (Revised 08/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 NRCC-LTO-02-E
 Outdoor Lighting Controls
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

A. Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:
 Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §130.0(a).
 Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
 All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).
 Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b).
 All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
 All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b).
 All installed outdoor lighting shall be controlled by a photocell or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(c).
 All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c).
 All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c).
 For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c).
 For Building Facade, Ornamental Hardscape and Outdoor Dining Lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c).
 Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting controls, shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (Revised 04/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 NRCC-LTO-01-E
 Outdoor Lighting
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

01	02	03	04		05	06	07	08	09
			Watts per Luminaire	Installed Watts					
Name or Item Tag	Complete Luminaire Description		How wattage was determined	Number of Luminaires	Total Installed Watts in Area (03 x 05)	Primary Function area in which these luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	GENERAL HARDSCAPE	UL: UL: FVH: BVH: FH: BH:	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	2		UL: UL: FVH: BVH: FH: BH:	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	0		UL: UL: FVH: BVH: FH: BH:	<input type="checkbox"/>	<input type="checkbox"/>
INSTALLED WATTS PAGE TOTAL:						0	Enter sum total of all pages (Sum Total INSTALLED Outdoor lighting wattage) into NRCC-LTO-01-E, Page 1		

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 CEC-NRCC-LTO-02-E (Revised 08/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 NRCC-LTO-02-E
 Outdoor Lighting Controls
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

01	02	03	04	05	06	07	08	09	10	11	Field Inspector	
												Standards Complying With (* all that apply, or leave empty if Exempted)
Location and Application of Luminaires Being Controlled	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocell control, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5	§130.2(c)6	§130.2(c)7	§130.2(c)8	Pass	Fail
			X	X	X						<input type="checkbox"/>	<input type="checkbox"/>

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 CEC-NRCC-LTO-02-E (Revised 08/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 NRCC-LTO-02-E
 Outdoor Lighting Controls
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: DALE FERRANTI
 Signature: Dale Ferranti
 Date Signed: 9/30/2019
 Company: FERRANTI ENGINEERING CONSULTANTS
 Address: 1211 MARICOPA HWY. SUITE 250
 City/State/Zip: OJAI, CA 93023
 Phone: (805) 705-4772

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: DALE FERRANTI
 Signature: Dale Ferranti
 Date Signed: 9/30/2019
 Company: FERRANTI ENGINEERING CONSULTANTS
 Address: 1211 MARICOPA HWY. SUITE 250
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STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (Revised 04/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 NRCC-LTO-01-E
 Outdoor Lighting
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

AGENCY INFORMATION:

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 03-120098 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 04/27/2020

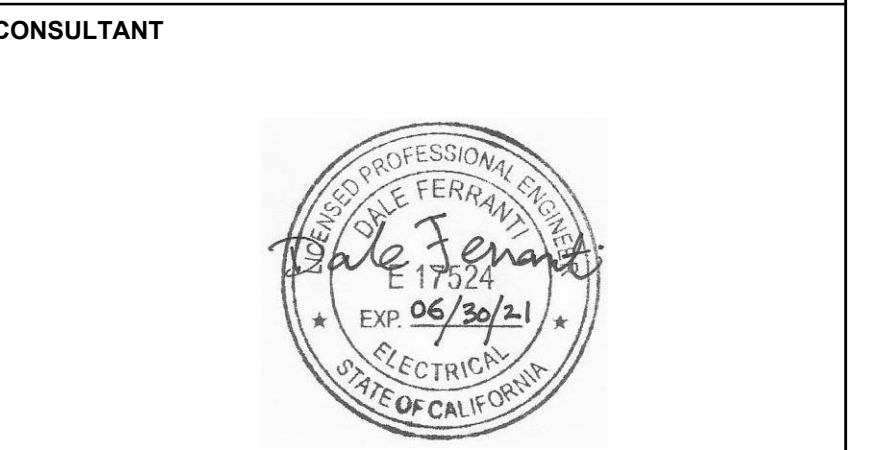
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NO.	DATE SUBMITTED	DATE APPROVED	DESCRIPTION



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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS E.S. MODERNIZATION
 815 POTOMAC AVE, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO: NA
 PROJECT NO: 19122 01-38
 DRAWN BY: VPZ
 CHKD BY: DF
 ISSUE DATE: 1/28/2020

SHEET TITLE

OUTDOOR TITLE 24 DOCUMENTATION

SHEET NUMBER

E801A

CONSTRUCTION DOCUMENTS

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-NRCC-LTI-01-E (Revised 04/16)
 CALIFORNIA ENERGY COMMISSION
 CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E (Page 1 of 6)
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

A. General Information
 Climate Zone: 6
 Unconditioned Floor Area: SQ. FT.
 Building Type: Nonresidential High-Rise Residential Hotel/Motel
 Schools Relocatable Public Schools Conditioned Spaces Unconditioned Spaces
 Phase of Construction: New Construction Addition Alteration
 Method of Compliance: Complete Building Area Category Tailored
 Project Address: 815 POTOMAC AVE. BAKERSFIELD, CA. 93307

B. Lighting Compliance Documents (select yes for each document included)
 For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	CDMP, DOC.	TITLE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-03-E	Indoor Lighting Power Allowance
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-04-E	Tailored Method Worksheets
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-NRCC-LTI-01-E (Revised 04/16)
 CALIFORNIA ENERGY COMMISSION
 CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E (Page 2 of 6)
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

C. Summary of Allowed Lighting Power
 Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces			Indoor Lighting Power for Unconditioned Spaces		
Row	Installed Lighting	Watts	Row	Installed Lighting	Watts
01	NRCC-LTI-01-E, Table H, page 5		02	NRCC-LTI-01-E, Table H, page 5	
02	Portable Only for Offices	+ ZERO	03	NRCC-LTI-02-E, page 2	
03	Minus Lighting Control Credits	- ZERO	04	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	= 0
04	Adjusted Installed Lighting Power	= 0	05	Adjusted Installed Lighting Power (row 1 minus row 3)	= 0

D. Declaration of Required Certificates of Installation
 Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-NRCC-LTI-01-E (Revised 04/16)
 CALIFORNIA ENERGY COMMISSION
 CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E (Page 5 of 6)
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

H. Indoor Lighting Schedule and Field Inspection Energy Checklist
 A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
 CONDITIONED SPACE UNCONDITIONED SPACE

Name or Room No.	Luminaire Schedule	Watts per Luminaire	Installed Watts			Location	Field Inspector	
			How wattage was determined	Number of Luminaires	Total Installed Watts in this area (H03-H05)		Pass	Fail
01	02	03	04	05	06	07	08	08
	Complete Luminaire Description (i.e. 3 lamp fluorescent troffer, F3278, one dimmable electronic ballast)							
	4' LED STRIP, ONE DRIVER					SEE PLANS		
INSTALLED WATTS PAGE TOTAL:						0	Enter sum total of all pages into NRCC-LTI-01-E, Page 2	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-NRCC-LTI-01-E (Revised 04/16)
 CALIFORNIA ENERGY COMMISSION
 CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E (Page 4 of 6)
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

G. Installed Portable Luminaires in Offices - Exception to Section 140.6(a)
 This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
 This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
 Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire W/ft²					Office Location	Field Inspector			
01	02	03	04	05	06	07	08	09	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Surface area of office (G04 / G05)	Watts per square foot (G06 / G05)	If G06 > 0.3, enter zero; If G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass	Fail
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
			0				0		<input type="checkbox"/>	<input type="checkbox"/>
Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:								Enter sum total of all pages into NRCC-LTI-01-E, Page 2	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-NRCC-LTI-01-E (Revised 04/16)
 CALIFORNIA ENERGY COMMISSION
 CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E (Page 3 of 6)
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

E. Declaration of Required Certificates of Acceptance
 Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	<input type="checkbox"/>

F. Indoor Lighting Schedule and Field Inspection Energy Checklist
 The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
 When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
 When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
 Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-NRCC-LTI-01-E (Revised 04/16)
 CALIFORNIA ENERGY COMMISSION
 CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E (Page 6 of 6)
 Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: DALE FERRANTI
 Documentation Author Signature: Dale Ferranti
 Company: FERRANTI ENGINEERING CONSULTANTS
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 Phone: (805) 705-4772

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
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Responsible Designer Name: DALE FERRANTI
 Responsible Designer Signature: Dale Ferranti
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

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BAKERSFIELD CITY SCHOOL DISTRICT

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OPSC or OSHPD PROJ. NO: NA
 PROJECT NO: 19122-01-38
 DRAWN BY: VPZ
 CHKD BY: DF
 ISSUE DATE: 1/28/2020

SHEET TITLE

INDOOR TITLE 24 DOCUMENTATION

SHEET NUMBER

E803

CONSTRUCTION DOCUMENTS

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance (Page 1 of 4)
Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
 CONDITIONED spaces UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES
If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0	
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1	0	0

Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02	03	04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft ²	COMPLETE BLDG. AREA	ALLOWED WATTS
			0
Total Area:			
Total Watts. Enter Total Watts into section A, row 1 (Above on this page).			0

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES

	Watts
Total from section C-2.	
Total from section C-3.	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	0

For Alterations Only - Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance (Page 2 of 4)
Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

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C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02	03	04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER ft ²	AREA (ft ²)	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C			
NOT USED				
TOTALS				0

Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance (Page 4 of 4)
Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

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Signature: Dale Ferranti
Date Signed: 9/30/2019
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E
Indoor Lighting - Lighting Controls (Page 1 of 3)
Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

A. Mandatory Lighting Control Declaration Statements (indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-Off control requirements in Section 130.1(c).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-off controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E
Indoor Lighting - Lighting Controls (Page 2 of 3)
Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
 CONDITIONED SPACES UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule	Standards Complying With ¹ (✓ all that apply, or leave empty if Exempted)										PAF Credit Calculation ²			Field Inspector	
	01	02	03	04	05	06	07	08	09	10	11	12	13		14
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc.)	# of Units	\$130.1(a)	\$130.0(b)	\$130.1(a)	\$130.1(a)	\$130.1(a)	\$130.1(a)	\$130.1(a)	\$130.1(a)	PAF	Control	Test Required	Pass	Fail
		X													
Control Credit PAGE TOTAL (Sum of Column 13):											0				
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):															

Enter Control Credit total into NRCC-LTI-01-E, Page 1.

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E
Indoor Lighting - Lighting Controls (Page 3 of 3)
Project Name: BESSIE OWENS PRIMARY Date Prepared: 9/30/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: DALE FERRANTI
Signature: Dale Ferranti
Date Signed: 9/30/2019
Company: FERRANTI ENGINEERING CONSULTANTS
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

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REVIEWED FOR
SS FLS ACS
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BAKERSFIELD CITY SCHOOL DISTRICT



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OPSC or OSHPD PROJ. NO: NA
PROJECT NO: 19122-01-38
DRAWN BY: VPZ
CHKD BY: DF
ISSUE DATE: 1/28/2020

SHEET TITLE

INDOOR TITLE 24 DOCUMENTATION

SHEET NUMBER

E804

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