

## GENERAL NOTES

1. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO INCLUDE ALL LABOR, MATERIALS AND SERVICES NECESSARY FOR COMPLETION OF ALL WORK SHOWN, PRESCRIBED OR REASONABLY IMPLIED BUT NOT LIMITED TO THAT EXPLICIT INDICATED IN THE CONTRACT DOCUMENTS.
2. DO NOT SCALE THE DRAWINGS.
3. DRAWINGS PROVIDED BY ENGINEERS / CONSULTANTS ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR SHALL REVIEW ALL PLANS AND DRAWINGS. IN THE EVENT OF CONFLICTING STATEMENTS, INSUFFICIENT INFORMATION OR ERRORS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT; OBTAIN CLARIFICATION BEFORE ANY WORK IS BEGUN. WORK INSTALLED WHERE CONFLICTING CONDITIONS EXIST SHALL BE CORRECTED AT CONTRACTORS EXPENSE.
4. ANY ITEMS INDICATED WITH (E) SHALL BE DEEMED TO BE EXISTING. ANY ITEMS INDICATED OTHERWISE SHALL BE CONSIDERED NEW WORK, AND SHALL BE SHOWN ON THIS CONTRACT. UNLESS NOTED OTHERWISE.
5. EXISTING CONDITION MAY NOT BE SHOWN EXACTLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. ANY DISCREPANCIES AND/OR OMISSIONS CONTAINED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT THAT TIME, OR IMMEDIATELY UPON DISCOVERY.
6. PROVIDE ATTACHMENT AND CONNECTION DEVICES AND METHODS FOR SECURING WORK PROPERLY AS IT IS INSTALLED; TRUE TO LINE AND LEVEL, PER CODE AND WITHIN RECOGNIZED INDUSTRY TOLERANCES IF NOT OTHERWISE INDICATED. ALLOW FOR EXPANSIONS AND BUILDING MOVEMENTS. PROVIDE UNIFORM JOINT WIDTH IN EXPOSED WORK, ORGANIZED FOR BEST POSSIBLE VISUAL EFFECT. REFER QUESTIONABLE VISUAL-EFFECT CHOICES TO ARCHITECT FOR FINAL DECISION.
7. FINAL CLEANING MUST BE DONE TO THE OWNER'S SATISFACTION AND WILL INCLUDE BUT NOT LIMITED TO CLEANING OF EXISTING LIGHT FIXTURES AND LAMPS AND REMOVAL OF TEMPORARY PROTECTION DEVICES.
8. ANY REQUIRED INTERRUPTION OF OR REMOVAL OF ANY UTILITY SERVICE SERVING THE EXISTING FACILITY SHALL NOT BE PERFORMED UNTIL A MINIMUM OF A ONE WEEK PRIOR NOTICE IS GIVEN TO THE OWNER BY CONTRACTOR. SUCH WORK AS RELATED TO THE NEW OR EXISTING WORK SHALL BE COORDINATED WITH THE OWNER AND APPLICABLE UTILITY COMPANY, AS MAY BE NECESSARY.
9. INSPECTION OF CONDITIONS: INSPECT SUBSTRATE TO RECEIVE WORK, AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED, AND REPORT UNSATISFACTORY CONDITIONS. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED AS DIRECTED.
10. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE CBC, TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS AND ALL LOCAL ADOPTED ORDINANCES, AND REGULATIONS. NOTHING HEREIN SHALL BE INTERPRETED TO THE CONTRARY.
11. ARCHITECT WILL INTERPRET THE INTENT OF THE DOCUMENTS IN CASE OF POSSIBLE CONFLICT OR DISCREPANCY.
12. DETAILS NOTED AS "TYP" OR "TYPICAL" SHALL APPLY IN ALL CASES WHETHER OR NOT SPECIFICALLY REFERENCED.
13. WORKMANSHIP STANDARDS: REMOVE AND REPLACE WORK WHICH DOES NOT COMPLY WITH WORKMANSHIP STANDARDS AS SPECIFIED AND AS RECOGNIZED IN THE CONSTRUCTION INDUSTRY FOR APPLICATIONS INDICATED REMOVE AND REPLACE OTHER WORK DAMAGED OR DETERIORATED BY FAULTY WORKMANSHIP OR IT'S REPLACEMENT.
14. MANUFACTURER'S INSTRUCTIONS: WHERE INSTALLATIONS INCLUDE MANUFACTURERED PRODUCTS, COMPLY WITH MANUFACTURER'S APPLICABLE INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION, TO EXTENT THESE ARE MORE EXPLICIT OR MORE STRINGENT THAN REQUIREMENTS INDICATED IN CONTRACT DOCUMENTS.
15. SCHOOL MAY BE IN SESSION AND THERE MIGHT BE STUDENT ACTIVITIES HAPPENING DURING CONSTRUCTION. CONTRACTOR MUST BARRICADE HIS/HER AREA AND ALSO MUST TAKE ALL PRECAUTIONS TO PROTECT STUDENTS PER CBC, CHAPTER 33
16. MATCH EXISTING GRADE WHERE NEW ASPHALTIC AND CONCRETE CONCRETE IS TO MEET EXISTING PAVING. PROVIDE DOWELS @ 16" O.C. MAX WHERE NEW CONCRETE PAVING MEETS EXISTING CONCRETE PAVING.
17. MOUNTING HEIGHTS: WHERE MOUNTING HEIGHTS ARE NOT INCLUDED, MOUNT INDIVIDUAL UNITS OF WORK AT MOUNTING HEIGHTS PER CALIFORNIA TITLE 24. REFER QUESTIONABLE MOUNTING HEIGHT CHOICES TO ARCHITECT FOR FINAL DECISION.
18. PATCH AREAS WHERE ORIGINAL ARE DISTURBED AFTER INSTALLING NEW ITEMS OR DEMOLITION. PATCHED AREAS SHALL MATCH (E) ADJACENT SURFACE.
19. MATERIALS: EXCEPT AS OTHERWISE INDICATED OR APPROVED BY OWNER, PROVIDE MATERIALS FOR CUTTING-AND-PATCHING WHICH WILL RESULT IN EQUAL-OR-BETTER WORK THAN WORK BEING CUT-AND-PATCHED IN TERMS OF PERFORMANCE CHARACTERISTICS AND VISUAL EFFECT WHERE APPLICABLE. USE MATERIALS IDENTICAL TO ORIGINAL MATERIALS WHERE FEASIBLE AND WHERE RECOGNIZED THAT SATISFACTORY RESULTS CAN BE PRODUCED THEREBY. REMOVE AND REPLACE WORK JUDGED BY ARCHITECT TO BE CUT-AND-PATCHED IN A VISUALLY UNSATISFACTORY OR OTHERWISE QUESTIONABLE MANNER. RESTORE EXISTING FINISHES ALTERED BY THE NEW WORK ONTO RETAINED WORK ADJOINING, IN A MANNER WHICH WILL ELIMINATE EVIDENCE OF PATCHING.
20. GYPSUM BOARD , LATHING, PLASTERING AND SUSPENDED CEILING SYSTEMS SHALL CONFORM TO CHAPTER 25 OF TITLE 24, PART 2, UNLESS NOTED OTHERWISE.
21. ALL TRIM AND EXPOSED CORNER DETAILS SHALL HAVE MILTERED JOINT CONNECTIONS.
22. FLOOR COVERING PREPARATION: CONTRACTOR SHALL EXAMINE EXISTING FLOOR SLAB AND DETERMINE THE ACCEPTABILITY TO RECEIVE ALL OF THE FINISH FLOORING MATERIALS AS DESCRIBED. CONTRACTOR SHALL PERFORM ADDITIONAL CLEANING, SCRAPING AND FILLING AS MAY BE NECESSARY FOR THE PROPER APPLICATION OF THE VARIOUS MATERIALS, PER MANUFACTURER'S RECOMMENDATIONS. SHOULD UNACCEPTABLE CONDITIONS EXIST.
23. PROVIDE BACKING IN WALLS FOR ALL WALL MOUNTED UNITS, CASEWORK, ATTACHMENTS, ACCESSORIES, ETC.
24. MAXIMUM EFFORT TO OPERATE INTERIOR DOORS SHALL NOT EXCEED 5 POUNDS WITH SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS.
25. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FLOOR.
26. DURING PERIODS OF PARTIAL OR RESTRICTED USE OF A BUILDING OF FACILITY, THE ENTRANCES USED FOR PRIMARY ACCESS SHALL BE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS.
27. REGARDLESS INDICATED ON THE DRAWINGS OR NOT, CONTRACTOR SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS AND PROVIDE REQUIRED ACCESSORIES IF NEEDED. CONTRACTOR SHALL ALSO PROVIDE COMPLETE SYSTEMS PER VARIOUS INDUSTRIES STANDARDS AND COMPLY WITH CODES AND REGULATIONS.
28. AFTER DEMOLITION IS COMPLETED. CONTRACTOR SHALL VERIFY ALL EXISTING ROOM DIMENSIONS AND CEILING HEIGHT PRIOR TO SUBMITTING SHOP DRAWINGS AND MEP INSTALLATION. DIMENSIONS SHOWN ON THE DRAWINGS ARE ABSOLUTE CODE REQUIREMENTS. ANY DEVIATIONS SHALL BE REVIEWED BY THE ARCHITECT.
29. CONTRACTOR SHALL PATCH (E) ROOFING SYSTEM AT PENETRATIONS INCLUDING BUT NOT LIMITED TO WHERE EXHAUST FAN/DUCT WORK AND PLUMBING VENT PIPING OCCURS. CONTRACTOR SHALL CONTRACT A CERTIFIED ROOFING MANUFACTURER FOR THE WORK TO MAINTAIN (E) ROOFING WARRANTY.
30. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL REMOVE EXISTING EXPOSED CONDUITS / PIPING AND CONCEAL THEM INTO NEW WALL FINISH AND FINISHING. RE-ALL WIRING AS NEEDED. NO EXPOSED CONDUIT / PIPING WILL BE PERMITTED.
31. DETAILS ON A9.X ARE TYPICAL DETAILS AND THEY ARE APPLICABLE TO ALL APPLICABLE LOCATIONS, REGARDLESS SPECIFICALLY REFERENCED OR NOT.
32. LOCATIONS AND SIZES OF EXISTING UTILITY LINES SHOWN MAY NOT BE ACCURATE. CONTRACTOR SHALL PROVIDE GPR AND/OR POTHOLING AS NEEDED TO LOCATE EXISTING UNDERGROUND UTILITIES AND DETERMINE THE EXACT POINT OF CONNECTIONS IN THE FIELD.
33. ALL WOOD STUD FRAMING MEMBERS IN CONTACT WITH CONCRETE / MASONRY SHALL BE PRESSURE TREATED.
34. EXISTING DUCTING AND UTILITY LINES SHOWN MIGHT NOT BE IN THE EXACT LOCATION. CONTRACTOR SHALL RUN ADDITIONAL PLUMBING AS NEEDED TO ACCOMMODATE EXISTING CONDITIONS AS NEEDED.

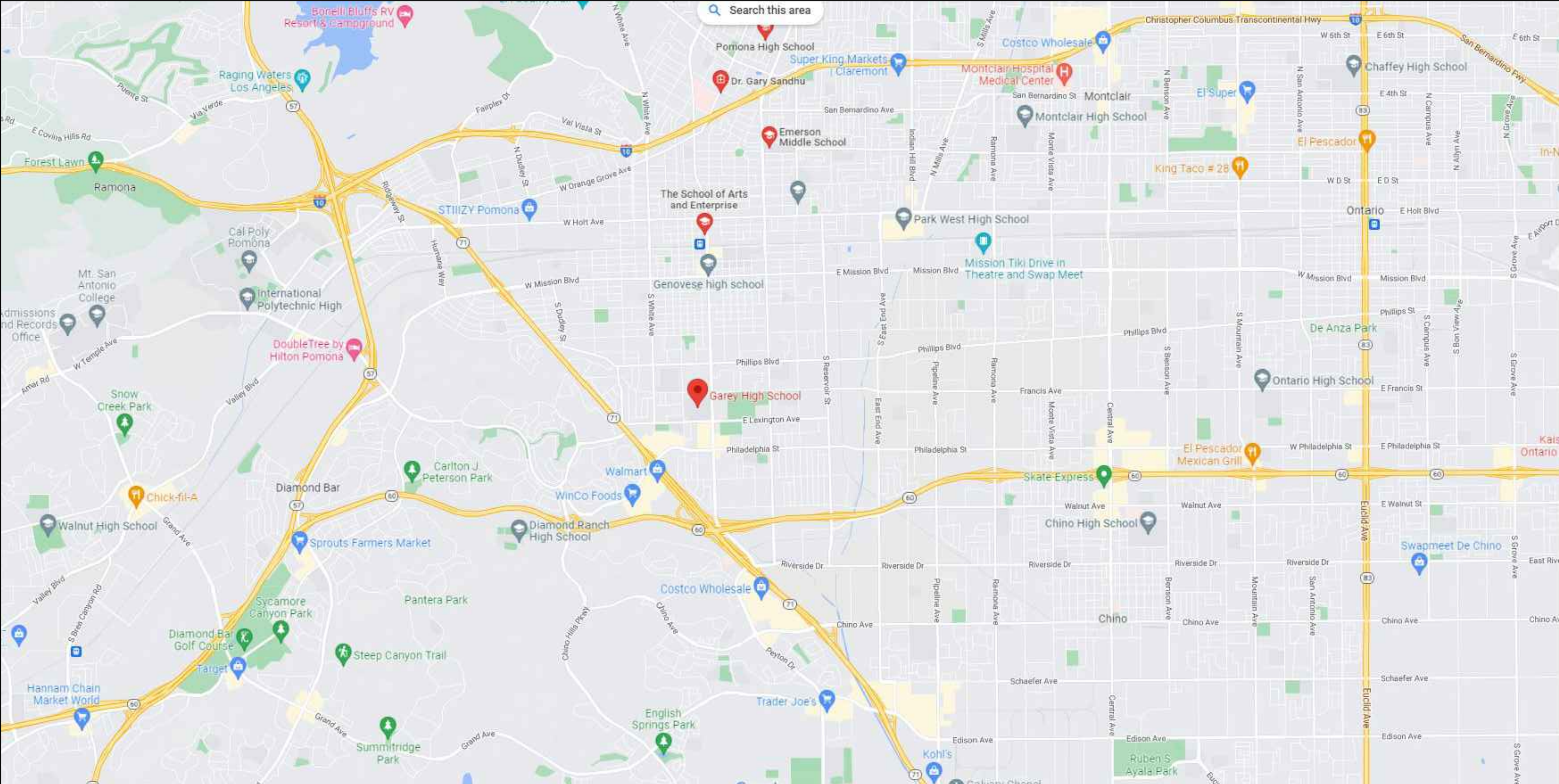
## DSA NOTES

1. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. NO DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
3. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
4. A "DSA CERTIFIED CLASS 3" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
5. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
6. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)
7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

## PROJECT TEAM

<b>ARCHITECT:</b>	<b>STRUCTURAL:</b>	<b>MEP ENGINEER:</b>
YNL ARCHITECTS	GROSSMAN & SPEER ASSOCIATES, INC.	MDC ENGINEERS
10736 JEFFERSON BLVD. #722	529 HAHN AVE. SITE #200	5101 E LA PALMA AVE. SUITE 205
CULVER CITY, CA 90230	GLENDALE, CA 91203	ANAHEIM HILLS, CA 92807
<a href="mailto:ylo@ynlarchitects.com">ylo@ynlarchitects.com</a>		

## VICINITY MAP



## APPLICABLE CODES

### LIST OF APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020\*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR\*

2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR

2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 6, TITLE 24 CCR

2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR

2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR

2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR

2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR

2022 CALIFORNIA GREEN BUILDING STANDARDS (CAL GREEN), PART 11, TITLE 24 CCR

2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

### APPLICABLE STANDARDS

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

NFPA 10	STANDARD FOR PORTABLE FIRE EXTINGUISHER	2018 EDITION
NFPA 70	NATIONAL ELECTRICAL CODE	2020 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2022 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVE	2019 EDITION
NFPA 90A	INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS	2021 EDITION
NFPA 101	LIFE SAFETY CODE - SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES	2021 EDITION

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR  
ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:  
[HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.](https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance)

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

## SHEET INDEX (35 SHEETS)

ARCHITECTURAL (12 SHEETS)

A0.0	COVER SHEET AND GENERAL NOTES
A0.1	SITE PLAN
A1.0	CODE ANALYSIS
A2.1	DEMO AND NEW FLOOR PLANS
A2.2	DEMO AND NEW CEILING PLANS
A6.1	INTERIOR ELEVATIONS
A9.1	TYPICAL DETAILS
A9.2	TYPICAL DETAILS
A9.3	TYPICAL DETAILS
A9.4	TYPICAL DETAILS
A9.5	TYPICAL DETAILS
A10.1	SCHEDULES

## STRUCTURAL (2 SHEETS)

S1	GENERAL NOTES, DETAILS, AND SECTIONS
S2	DETAILS

## ELECTRICAL (12 SHEETS)

E0.0	ELECTRICAL NOTES AND SYMBOLS LIST
E0.1	ELECTRICAL SINGLE LINE DIAGRAM AND PANEL SCHEDULE
E0.3	ELECTRICAL LIGHTING FIXTURE SCHEDULE & TITLE 24 CALC
E1.0	ELECTRICAL SITE PLAN
E1.1	ELECTRICAL FLOOR PLAN
E2.1	ELECTRICAL LIGHTING PLAN
E3.1	FIRE ALARM FLOOR PLAN
E3.2	FIRE ALARM RISER DIAGRAM AND CALCULATIONS
E4.1	ELECTRICAL DETAILS
E4.2	ELECTRICAL DETAILS
E4.3	ELECTRICAL DETAILS
E4.4	ELECTRICAL DETAILS

MECHANICAL (4 SHEETS)

M0.1	MECHANICAL NOTES AND SYMBOL LIST
M1.0	MECHANICAL SITE PLAN
M1.1	MECHANICAL FLOOR PLAN
M4.1	MECHANICAL DETAILS

## PLUMBING (5 SHEETS)

P0.1	PLUMBING NOTES AND SYMBOL LIST
P1.0	PLUMBING SITE PLAN
P1.1	PLUMBING DEMOLITION FLOOR PLAN
P2.1	PLUMBING FLOOR PLAN
P4.1	PLUMBING DETAILS

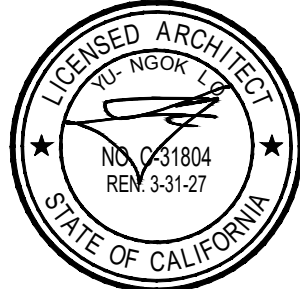
## SCOPE OF WORK

RENOVATION OF THE EXISTING (2) SCIENCE LABS AT AT BUILDING / UNIT B AT GAREY HIGH SCHOOL.  
(THIS PROJECT SHALL NOT BE CERTIFIED UNTIL 03-122595 IS COMPLETED AND CERTIFIED)

## PROJECT ADDRESS

321 W. LEXINGTON AVE. POMONA, CA 91766

An identification stamp from the Division of the State Architect. It contains the following text: "IDENTIFICATION STAMP", "DIV. OF THE STATE ARCHITECT", "APP: 03-125098 INC:", "REVIEWED FOR", "SS ☒ FLS ☒ ACS ☒", and "DATE: 10/31/2025".

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**SCIENCE LABS  
RENOVATION AT  
GAREY H.S.**  
321 W. LEXINGTON AVE.  
POMONA, CALIFORNIA 91766

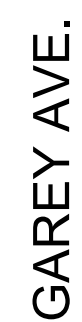
POMONA UNIFIED  
SCHOOL DISTRICT

800 S. GAREY AVENUE  
POMONA, CALIFORNIA 917

COVER SHEET  
AND GENERAL  
NOTES

DATE
DGA #8
A# 03-125098 FILE NO. 19-H20
SHEET
A0.0

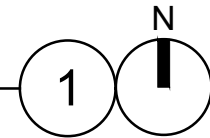
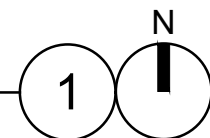






DATE
CSA # A# 03-125098 FILE NO. 19-H20
SUBJECT





## GENERAL NOTES

1. DEMOLITION WORK SHOWN IS DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL VERIFY EXACT CONDITIONS IN THE FIELD AND DEMO ADDITIONAL ITEMS (REGARDLESS SHOWN ON THE DRAWINGS OR NOT) AS NEEDED TO COMPLETE WORK.
2. SEE A1.0 FOR ADDITIONAL SIGNAGE.
3. SEE TYPICAL DETAILS 7/A9.3 FOR TYPICAL TRENCHING REPAIR DETAIL.

## DEMOLITION AND NEW FLOOR PLANS

DATE	
CSA A#	A# 03-125098 FILE NO. 19-H2
SHEET	

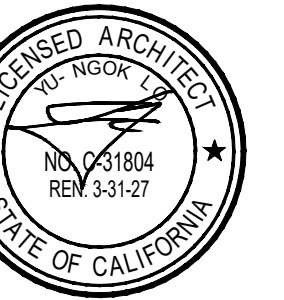
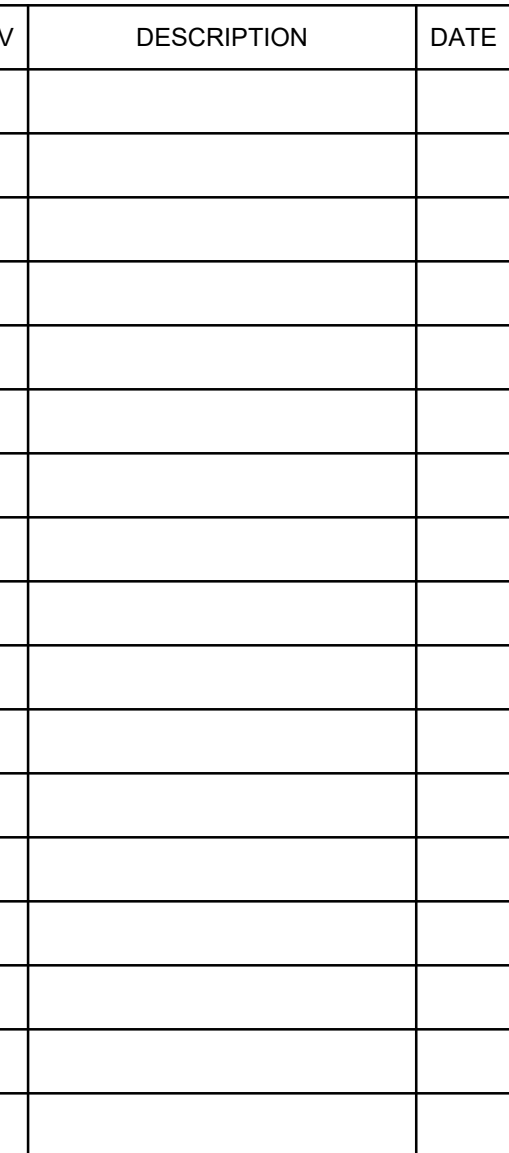
## A2.1





## A2.2





OMONA UNIFIED  
SCHOOL DISTRICT  
100 S. GAREY AVENUE  
OMONA, CALIFORNIA 91766

## INTERIOR ELEVATIONS

## A6.1















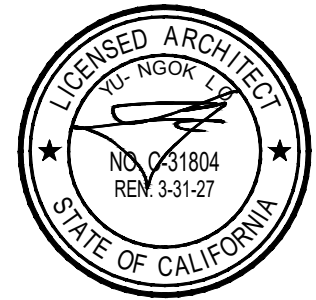










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**SCIENCE LABS  
RENOVATION AT  
GAREY H.S.**  
321 W. LEXINGTON AVE.  
POMONA, CALIFORNIA 91766

POMONA UNIFIED  
SCHOOL DISTRICT

800 S. GAREY AVENUE  
POMONA, CALIFORNIA 91766

## SCHEDULES

DATE	
CGA Aff	A# 03-125098 FILE NO. 19-H20
SHEET	

## A10.1



1. ALL WORKMANSHIP, MATERIAL, AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, TO VERIFY CONDITIONS AT THE JOB SITE AND TO CROSSCHECK DETAILS AND DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND ALL OTHER PERTINENT DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION. WHERE CONFLICTS OCCUR BETWEEN VARIOUS ELEMENTS OF THE WORKING DRAWINGS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
4. DETAILS MARKED TYPICAL SHALL APPLY IN ALL CASES, UNLESS SPECIFICALLY DETAILED OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION, WHERE DISCREPANCIES OCCUR BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
6. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING BRACING, SHORING, AND LAYDOWN OF CONSTRUCTION MATERIAL, ETC. UNLESS SPECIFICALLY INDICATED OTHERWISE, THE DESIGN AND INSTALLATION OF TEMPORARY SHORING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. UNLESS OTHERWISE STATED IN WRITING, SITE VISITS BY REPRESENTATIVES OF THE STRUCTURAL ENGINEER:
  - A. DO NOT INCLUDE INSPECTION OF PROTECTIVE OR TEMPORARY CONSTRUCTION.
  - B. ARE GENERAL IN NATURE AND ARE NOT CONTINUOUS OR DETAILED.
  - C. DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE.
  - D. SHALL NOT BE CONSIDERED AS SUPERVISION OF CONSTRUCTION.
8. DIMENSIONS SHALL GOVERN OVER SCALES SHOWN ON DRAWINGS.
9. PRIOR TO DRILLING FOR NEW ANCHORS OR CORING FOR NEW OPENINGS, CONTRACTOR SHALL SCAN THE EXISTING STRUCTURE TO LOCATE REBAR TO AVOID DAMAGING THE EXISTING REBAR.
10. ALL CONDUIT, DUCTWORK, CEILING AND OTHER MISCELLANEOUS ITEMS AND THEIR SUPPORTING CONNECTIONS SHALL BE RELOCATED OR REMOVED AND RECONNECTED IN KIND AS REQUIRED TO PERFORM THE STRUCTURAL WORK.

1. SEISMIC RISK CATEGORY = III
2. IMPORTANCE FACTOR  $I = 1.25$
3. MAPPED ACCELERATION PARAMETERS:  
 $S_S = 1.791$   
 $S_1 = 0.642$
4. SITE CLASS = D (DEFAULT)
5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS  
 $S_{DS} = 1.433$   
 $S_{D1} = 0.728$
6. SEISMIC DESIGN CATEGORY = D

1. ALL REINFORCING SHALL BE PLACED AND SUPPORTED IN CONFORMANCE WITH "THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" LATEST EDITION, PUBLISHED BY C.R.S.I.
2. TIE WIRE SHALL BE 16 GAGE, FULLY ANNEALED, CONFORMING TO ASTM A-1064.
3. ALL REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVERAGE, UNLESS NOTED OTHERWISE:

A. CONCRETE PLACED AGAINST EARTH	3"
B. CONCRETE WITH EXPOSED SURFACES IN CONTACT WITH EARTH	2"
C. CONCRETE EXPOSED TO WEATHER, #5 BAR AND SMALLER	1½"
4. CONTINUOUS REINFORCING STEEL IN CONCRETE MUST BE SPLICED WITH A MINIMUM LAP ACCORDING TO THE TABLES BELOW, U.N.O.:

5. ALL HORIZONTAL REINFORCING STEEL IN CONCRETE WALLS SHALL BE CONTINUOUS AROUND CORNERS IN EACH DIRECTION FOR 40 BAR DIAMETERS OR 1'-6" MINIMUM.
6. STAGGER REBAR SPLICES A MINIMUM OF TWICE THE LAP LENGTH FOR HORIZONTAL REINFORCING.
7. DOWELS SHALL BE PROVIDED AT ALL POUR JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS REINFORCING DIRECTLY BEYOND POUR JOINTS.

1. BASIC WIND SPEED (3 SECOND GUST) = 102 MPH
2. RISK CATEGORY = III
3. WIND EXPOSURE = C

1. ALL FOUNDATION BEARING AND FILL MATERIALS SHALL BE INSPECTED AND APPROVED BY THE D.S.A. INSPECTOR PRIOR TO PLACING CONCRETE.
2. ALLOWABLE BEARING VALUE = 1500 PSF.
3. ALLOWABLE LATERAL BEARING PRESSURE = 100 PSF.

CONCRETE SHALL BE AS FOLLOWS:						
LOCATION	MIN. COMPRESSIVE STRENGTH, F'C @ 28 DAYS (P.S.I.)	CEMENT TYPE	AGGREGATE TYPE	MAXIMUM SIZE AGGREGATE (IN.)	MAXIMUM SLUMP (IN.)	MAXIMUM WATER/CEMENT RATIO (w/c)
SLABS ON GRADE	3,000	II/V	HARDROCK	1"	4"	0.45
OTHER	3,000	II/V	HARDROCK	1"	4"	0.50

- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE CONFORMING TO ASTM C-33.
- CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C-150 AND SHALL BE TESTED.
- ALL REINFORCING BARS, DOWELS, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING OF CONCRETE.
- CONTRACTOR SHALL SUBMIT A DRAWING FOR REVIEW INDICATING LOCATION OF CONCRETE CONSTRUCTION JOINTS PRIOR TO POURING CONCRETE. LOCATE JOINTS AT POINTS OF LOW STRESS AND TO MINIMIZE EFFECTS OF SHRINKAGE. PROVIDE KEYS UNLESS DETAILED OTHERWISE. ROUGHEN SURFACE TO RECEIVE CONCRETE TO 3/4" AMPLITUDE.
- NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES THROUGH WALLS AND FLOORS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL MOULDS, GROOVES, CLIPS, ORNAMENTS, GROUNDS AND OTHER INSERTS TO BE CAST IN CONCRETE.
- CONTINUOUS INSPECTION IS REQUIRED DURING PLACING OF CONCRETE.
- PEA GRAVEL MIXES ARE NOT ALLOWED, EXCEPT WHERE SPECIFICALLY REQUIRED DUE TO REBAR CONSTRUCTION.
- FLY ASH IS NOT PERMITTED.

1. STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE 2016 EDITION A.I.S.C. "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS.
  - A. CHANNELS AND ANGLES: A36
  - B. STEEL TUBES: A500, GRADE C (Fy = 50 KSI)
3. ANCHOR BOLTS AND THREADED RODS AT STEEL BASE PLATES SHALL CONFORM TO ASTM F1554 GRADE 36.
4. SHOP DRAWINGS FOR STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE REVIEWED PRIOR TO FABRICATION.
5. ALL WELDING SHALL CONFORM TO A.W.S. A5.1 AND A.W.S. D1.1 OF THE STRUCTURAL WELDING CODE.
6. ALL WELDING SHALL BE DONE BY AWS CERTIFIED OPERATORS QUALIFIED BY AN INSPECTOR APPROVED BY D.S.A. FOR THE TYPE OF OPERATION INVOLVED.
7. E-70XX ELECTRODES SHALL BE USED.
8. SPECIAL INSPECTION IS REQUIRED FOR ALL SHOP AND FIELD WELDING BY A SPECIAL WELDING INSPECTOR APPROVED BY THE D.S.A.
9. TYPE OF WELD (SHOP OR FIELD) SHALL BE DETERMINED BY CONTRACTOR.
10. MINIMUM SIZE OF FILLET WELDS SHALL BE IN ACCORDANCE WITH AISC WHERE SMALLER WELDS ARE INDICATED OR WHERE NO SIZE IS INDICATED.
11. ALL WELDS TO EXISTING STEEL SHALL BE PERFORMED USING LOW-HYDROGEN ELECTRODES.

1. ALL ADHESIVE ANCHORS SHALL CONSIST OF SET-36 ADHESIVE MANUFACTURED BY  
SIMPSON STRONG-TIE, INC
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ICC ESR-4507.
3. COMPLY WITH ALL MANUFACTURER'S RECOMMENDATIONS.
4. CONTINUOUS INSPECTION IS REQUIRED FOR ANCHOR INSTALLATION.
5. ANCHORS SHALL BE STAINLESS STEEL OR HOT-DIP GALVANIZED AT EXTERIOR OR  
EXPOSED ANCHORS.
6. DO NOT CUT OR DAMAGE EXISTING REBAR FOR ANCHOR INSTALLATION. REBAR SHOULD  
BE LOCATED PRIOR TO ANCHOR INSTALLATION BY NONDESTRUCTIVE METHODS.

1. HILTI LOW-VELOCITY POWER-DRIVEN FASTENERS (SHOTPINS) MAY BE USED TO ATTACH WOOD OR LIGHT GAGE COLD-FORMED STEEL FRAMING TO CONCRETE AND STEEL BASE MATERIALS IN ACCORDANCE WITH ESR-2269.
2. SHOTPINS SHALL NOT BE USED IN CONCRETE CURBS.
3. THE ALLOWABLE LOADS SHALL BE 100 POUNDS OR 80% OF ICC APPROVAL VALUES, WHICHEVER IS LESS.
4. QUALIFICATION FOR USE OF ALL POWER ACTUATED TOOLS MUST MEET ANSI A10.3 STANDARD AS REQUIRED BY THE MANUFACTURER AND ALL OSHA REQUIREMENTS.
5. TESTING:
  - A. THE OPERATOR, TOOL AND FASTENER SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. THE INSPECTOR SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS.
  - B. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN.THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR' SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS.
  - C. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

STEEL STUDS SHALL BE IN ACCORDANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) SPECIFICATIONS AND ICC ESR-3064P, CONFORMING TO ASTM A655/65 OR A1011S, MINIMUM YIELD = 33.0 KSI U.N.O., AND GALVANIZED CONFORMING TO ASTM A525, 690, HAVING THE MINIMUM VALUES IN ACCORDANCE WITH THE CHART BELOW.

SIZE	DESIGNATION	GAGE	AREA (IN <sup>2</sup> )	Ix (IN <sup>4</sup> )	Sx (IN <sup>3</sup> )	REMARKS
4"	400S162-54	16	0.443	1.098	0.526	
2½"	250S162-54	16	0.358	0.370	0.296	
3½"	362S162-54	16	0.422	0.873	0.481	
6"	600S162-54	16	0.556	2.860	0.953	

2. REFER TO ARCHITECTURAL DRAWINGS FOR STUDS AND DETAILS NOT SHOWN.

3. REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR STUD SIZES, OTHER THAN THOSE INDICATED.

4. STUD TRACKS SHALL BE SAME GAGE AS STUDS WITH 1½" FLANGES, U.N.O.

5. STUD TO TRACK CONNECTION SHALL BE 1-#10 SMS AT EACH FLANGE U.N.O.

6. SCREW PENETRATION THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPONDED THREADS.

7. SCREWS FOR COLD-FORMED METAL FRAMING SHALL BE GALVANIZED THREAD-FORMING OR THREAD-CUTTING PAN HEAD SCREWS. WITH A SELF DRELLING POINT. SCREWS SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

TYP. FURRING WALL

10'-6" MAX.

3" THK GYPSUM FILL W/ 4x4 / 10-10 WWF OVER (E) BULB TEES @ 2'-9" O.C. W/ 1/2" GYPSUM FORM BOARD

400S162-54 STRUT @ 4'-0" O.C. MAX.

400S162-54 BRACE @ 4'-0" O.C. MAX. WITH 3-#12 SMS TO STRUT

1/2" DLR

CONT. CST/SLP-TRK 166A MIN. TRUCK (ICC ESR #2012) WITH (2) HILTI X-U 15 SHOPINS @ 32" O.C.

400S162-54 @ 16" O.C. OR 250S162-54 @ 8" O.C. OR 400S162-54 @ 16" O.C. OR 362S162-54 @ 8" O.C.

VARIES, 3'-0" MIN. 3'-6" MAX.

NOTES:  
1. SHEET HULL SCREWS SH-1 ITW BUILDEX TEKS SELF-D SCREWS (ICC ESR #1976) T

10 SMS @ 16" o.c. TYP.  
PLACES AS SHOWN

CONT. STEEL STUDS  
SAME SIZE AS WALL  
STUDS, COPE FLANGES AT  
HEADS AND LAP WEBS  
WITH JAMB STUDS AND  
FASTEN WITH 3-#10 SMS  
EACH STUD, EACH SIDE,  
EACH END

ANGLE TRACK

CONT. TRACK TOP  
AND BOTTOM

3/4" TYP.

HEADER

CONT. TRACK

L2x2x14 GAGE x STUD SIZE  
MINUS 1/2" WITH (3) #10  
SMS EACH LEG TYP.

SILL

TRIPLE STUDS

#10 SMS @ 6" o.c. AT BACK TO BACK  
STUDS

4"x18 GAGE PLATE @ 16" o.c. EACH FACE OF WALL

#12 SMS EACH FULL HEIGHT STUD

SCREW ANCHOR PER  
OR ANCHOR BOLT  
PER 19  
51

25  
51

9" MAX.

NOTES:  
SHEET METAL SCREWS SHALL BE ITW BUILD EX TEK  
SELF-DRILLING SCREWS (ICC ESR #1976) TYP.

CONT. TRACK WITH 2-#10 SMS EACH WALL STUD AT METAL STUD WALLS

CEILING JOIST SPAN TABLE		
JOIST	SPACING	MAX SPAN
4005162-54	16"o.c.	10'-0"
3625162-54	16"o.c.	8'-0"

CEILING JOISTS, SEE SCHEDULE FOR SIZE

L2x2x14 G6GE x STUD SIZE MINUS 1/2" WITH 2-#10 SMS TO JOIST AND 2-#10 SMS TO TRACK AT METAL STUD WALLS

NOTES:  
1. TRACK SAME G6GE AS JOIST.

(N) FULL HEIGHT STUDS

36"± c. MAX.

EQ. EQ.

CONT. TRACK WITH 1/4" DIA. SMS EACH STUD

(N) FURRING WALL STUDS

1/4" DIA. SMS @ 36"± c. FROM STUD TO STUD

(E) DAMAGED METAL STUD BEYOND

(N) 18 GAUGE STUD WITH 1 1/2" FLANGE TO MATCH EXISTING WALL THICKNESS (FULL HEIGHT) AGAINST (E) STUD

#10 5MS @ 12" o.c. EACH FACE

15  
S1 AT TOP CONNECTION

5A  
S1 AT BOTTOM CONNECTION

## DETAIL

ST4111.5 BOTTOM CHORD  
OF (E) STEEL TRUSS

CONT. CST./SLP-TRK 166A.  
MIN. TRACK (ICC ESR #2012)  
WITH (2) SMS @ 16" o.c.  
TO BOXED HEADER

CONT. BOXED HEADER BETWEEN  
(E) TRUSSES WITH (2)  
400S162-54 CONT. STUDS AT  
SIDES AND CONT. TRACK AT T&B  
WITH #10 SMS @ 16" o.c. TYP. 4  
PLACES AND WITH L2x2x14 GA.  
x0'-3" CLIP EACH SIDE WITH (2)  
#12 SMS SCREWS EACH LEG TYP.  
TO EACH (E) BOTTOM CHORD

400S162-54 @ 16" o.c.  
OR 250S162-54 @ 8" o.c.  
OR 300S162-54 @ 16" o.c.  
OR 362S162-54 @ 8" o.c.

NOTES:  
1. SHEET METAL SCREWS SHALL BE ITW BUDGET TEKs  
SELF-DRILLING SCREWS (ICC ESR #1976) TYP.

1. BOXED HEADER BETWEEN  
 2. TRUSSES WITH (2)  
 3. 00S162-54 CONT. STUDS AT  
 4. BRACES AND CONT. TRACK AT TAB  
 5. WITH #10 SMS @ 16"o.c. TYP. 4  
 6. BRACES AND WITH L2x2x14 GA.  
 7. 3" CLIP EACH SIDE WITH (2)  
 8. 12 SMS SCREWS EACH LEG TYP.  
 9. 10 EACH (E) BOTTOM CHORD  
 11. 00S162-54 STUD AT EACH BRACE  
 12. WITH (2) #10 SMS THRU FLANGE  
 13. 14 BOXED HEADER  
 15. 00S162-54 BRACE AT EACH  
 16. STUD WITH (2) #10 SMS  
 17. 18 SCREWS EACH END  
 19. ST41115 BOTTOM CHORD  
 20. OF (E) STEEL TRUSS  
 21. 400S162-54 @ 16"o.c.  
 22. OR 250S162-54  
 23. @ 8"o.c. OR  
 24. 600S162-54 @ 16"o.c.  
 25. OR 362S162-54  
 26. @ 8"o.c.  
 27. 1 MAX.  
 28. 1  
 29. 8" MAX.  
 30. 3/8" TYP.

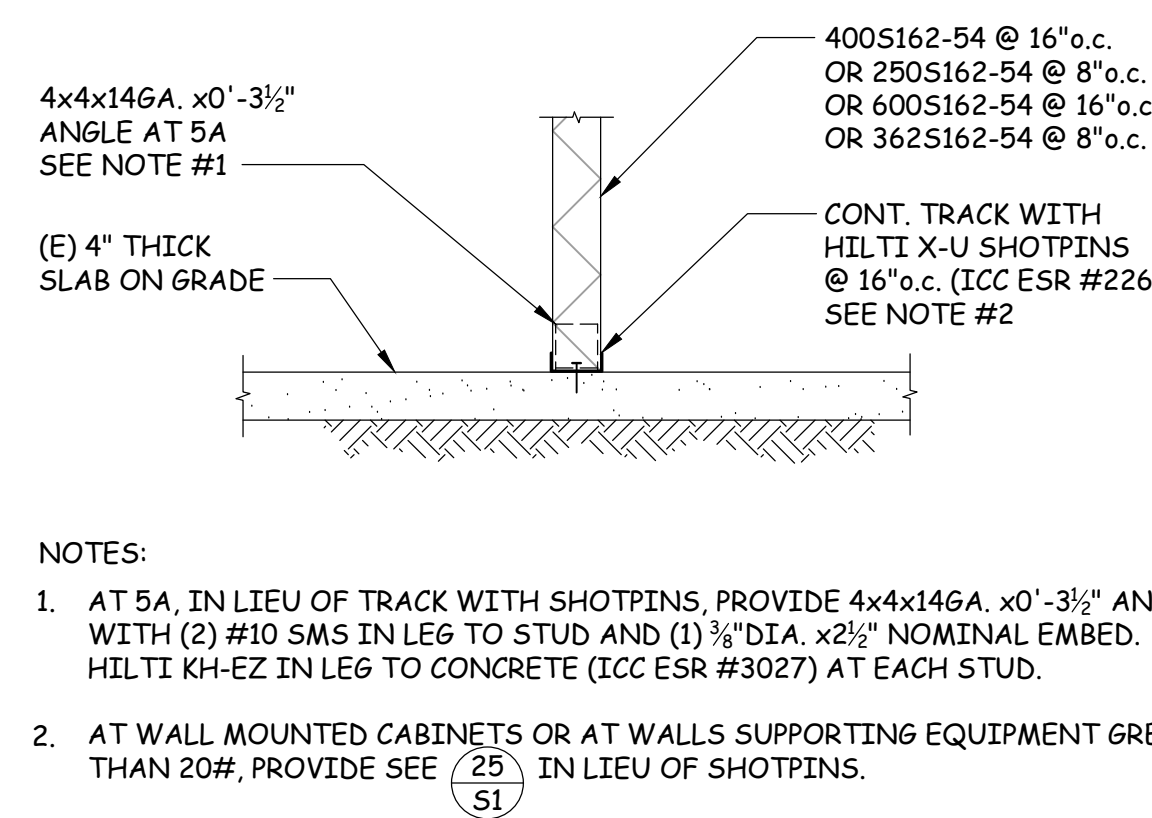
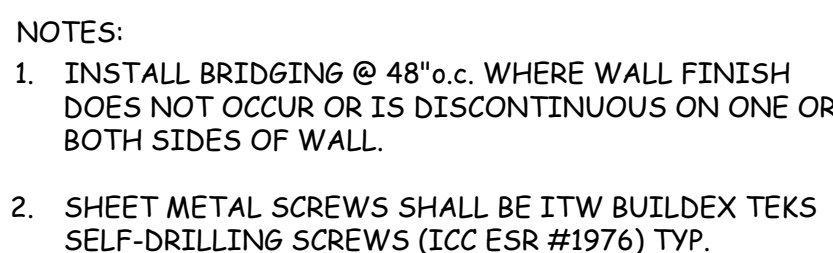
NOTES:  
 1. SHEET METAL SCREWS SHALL BE ITW BUILDEX TEK  
 2. SELF-DRILLING SCREWS (ICC ESR #1976) TYP.

400S162-54 @ 16"o.c.  
OR 250S162-54 @ 8"o.c.  
OR 600S162-54 @ 16"o.c.  
OR 362S162-54 @ 8"o.c.

CONT. TRACK WITH 3/8" DIA.  
HILTI KH-EZ (ICC ESR #3027)  
WITH 25% NOMINAL  
EMBEDMENT @ 16"o.c. TYP.

(E) 4" THICK SLAB  
ON GRADE

## DETAIL

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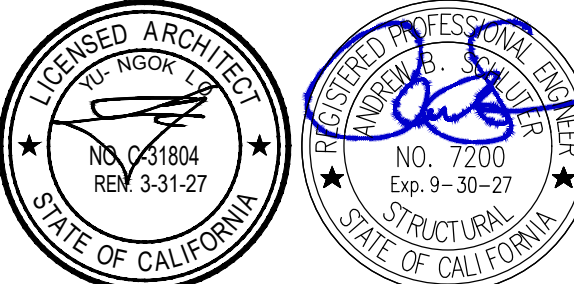
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## SCIENCE LABS RENOVATION AT GAREY H.S.

POMONA UNIFIED  
SCHOOL DISTRICT

800 S. GAREY AVENUE  
POMONA, CALIFORNIA 91766

## GENERAL NOTES, DETAILS AND SECTIONS

DATE	
CSEA Aff	A# 03-125098 FILE NO. 19-H20
SHEET	

S1







# ELECTRICAL SYMBOLS LIST

- MEP COMPONENT ANCHORAGE NOTE**
- ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS.
- THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617.1.18 THROUGH 1617A.1.20 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.
- ALL PERMANENT ELECTRICAL AND COMPONENTS.
- THEORETICALLY MOVABLE OR IMMOBILE EQUIPMENT: IF A COMPONENT IS ATTACHED (E.G. HARD WIRING) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES AND A FLEXIBLE CLAMP.
- THEORETICALLY MOVABLE OR IMMOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER PROVIDED BY DSA.
- THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN CAPABILITY TO THE STRUCTURE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND THE ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A CEILING.
- THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL. RESPONSIBLE CHARTERED OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.
- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE**
- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.
- THE METHOD OF SHOWING BRACINGS AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACINGS AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PORT TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OR RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE CONNECTIONS.
- MECHANICAL/PLUMBING (M), MECHANICAL DUCTS (M), PLUMBING PIPING (P), ELECTRICAL DISTRIBUTION SYSTEMS (E):**
- OPTION 1 (DETAILED ON THE APPROVED DRAWINGS) MATCH WITH PROJECT SPECIFICATIONS AND DETAILS.
- OPTION 2 (SHALL COMPLY WITH THE APPLICABLE HCAI (OSHPD) PRE-APPROVAL (OPM #) ). AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTATIONS AND DETAILS.

AS DIRECTED SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MINOR OR DISCREPANT ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. CONDUIT SHALL BE SHOWN ON THE PLAN OR IN SECTION OR DETAIL. CONDUIT SHALL BE 1/2" OR 3/4" IN DIAMETER, 40% FOR CONDUITS UNDERGROUND, EMT CONDUIT FOR INTERIOR EXPOSED AREA AND GALVANIZED RIBBON STEEL FOR EXPOSED EXTERIOR AREAS. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER-TIGHT FITTINGS AND WIRE APPROVED FOR WET LOCATIONS.

2. MINIMUM CONDUIT SIZE SHALL BE 3/4" IN CONJUNCTION TO ADJUST SIZE FOR FIELD CONDITIONS (I.E. NO. OF BENDS, ETC.) BUT SHALL NOT BE SMALLER THAN 3/4" MINIMUM CONDUIT SIZE SHALL BE 2"

3. FIRE ALARM JUNCTION BOX COVER SHALL BE PAINTED RED AND LABELED "FIRE ALARM." ALL FIRE ALARM CONDUITS SHALL HAVE A RED STRIPE EVERY 10 FT.

4. IF A FIRE ALARM WIRING SHALL BE FIRE POWER LIMIT OR FIRE POWER LIMITED PLUMB AS REQUIRED FOR APPLICATION, WIRING IN CONDUIT ABOVE UNDERGROUND MAY BE THIN OR THWN. CONDUIT FILL SHALL BE PER TABLE 30 OF ELECTRICAL CODE

5. ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECT DIRECTLY TO EACH FIRE ALARM DEVICE. DO NOT SPICE THE WIRE. THERE MUST BE AT LEAST 6 FT OF LEAD WIRE FROM BOX TO THE DEVICE. ALL BOX TO BE SIZED PER CODE. WIRING SHALL NOT BE LOOSED THROUGH DEVICES, WIRE SHALL CUT OUT IN AND THROUGH DEVICES.

6. POINT AND COMMON ANNUNCIATION AND TAPPING PROHIBITED, (EXCEPT WITH ADDRESSABLE CLASS B DEVICES)

7. ALL WIRING, INITIATING DEVICE AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION (FIRE ALARM PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL CIRCUITS AND INITIATING DEVICES).

8. ALL PENETRATIONS OF FIRE-RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CHAPTER 7, ULC OR OTHER LAB TESTING CATALOG. APPROVE TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION FOR PENETRATION FIRE STOP SYSTEM. APPROVE TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION FOR PENETRATION-FIRE STOP STOPPING FOR ALL FIRE RATED WALLS.

9. CONDUIT AND JUNCTION BOXES ARE NOT TO BE USED FOR UNRELATED WIRING.

10. ALL TERMINATION ON MAIN PULL BOXES AND TERMINAL CABINETS SHALL BE ON BOX MOUNTED TERMINAL BLOCKS

11. THE FIRE ALARM CONTROL PANEL IS NOT TO BE USED AS A TERMINAL CABINET. PROVIDE SEPARATE TERMINAL CABINET.

12. FIRE ALARM LOCKED PANEL SHALL BE ACCESSIBLE ONLY TO FIRE DET. PERSONNEL, AUTHORIZED MAINTENANCE PERSONNEL AND SHALL BE MARKED "FIRE ALARM CONTROL PANEL."

13. PROVIDE SIGNAGE "FIRE ALARM CONTROL PANEL, INSIDE" ON DOORS OF THE ROOM WHERE FACSPICPS IS LOCATED TO INDICATE LOCATION OF FACSPICPS. PROVIDE SIGNAGE AT THE INSPECTORS TEST VALVE RISER, AND SUPERVISORY DEVICE INDICATING THAT THE FIRE SPRINKLER SYSTEM IS BEING MONITORED. THE LOCATION OF THE INSPECTORS TEST VALVE IS TO BE LABELED ON THE INTERIOR OF THE FACPDOR.

14. BATTERIES ARE TO BE LABELED WITH THE MONTH AND YEAR OF INSTALLATION.

15. FIRE ALARM PANEL, REMOTE ANNUNCIATOR, AND COMPONENTS SHALL BE SECURE TO MOUNTING SURFACE PER MANUFACTURES SPECIFICATIONS, NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.

16. ALL ELECTRICAL CONTROLS AND SWITCHES SHALL BE INSTALLED NO MORE THAN 48" ABOVE FINISH FLOOR FROM THE TOP OF THE OUTLET BOX AND NO LESS THAN 15" ABOVE FINISH FLOOR FROM THE BOTTOM OF THE OUTLET BOX. PER ASCE 118-308.

17. FIRE ALARM EQUIPMENTS AND POWER SUPPLIES SHALL BE CONNECTED TO A DEDICATED 120V/1 CIRCUIT. CIRCUIT BREAKER SHALL MATCH BY TYPE/AMPERAGE AND VOLTAGE. THE CIRCUIT BREAKER HANDLE SHALL BE RED MARKED, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL. IDENTIFIED AS "FIRE ALARM CIRCUIT", AND LOCATION OF CIRCUIT BREAKER PREVIOUSLY IDENTIFIED AT FIRE ALARM CONTROL UNIT IN COMPLIANCE WITH NFPA 72, 10.6.5.2.

18. ALL EQUIPMENT, I.E. AUTOMATIC DETECTION DEVICES, MANUAL PULL STATIONS, ADJUSTABLE DETECTORS, DETECT DETECTORS, ETC. SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LISTINGS AND APPLICABLE PROVISIONS OF THE TITLE 24, PARTS 2.2.4 & 8 STANDARDS. ALL EXTERIOR DEVICES SHALL BE LISTED FOR OUTDOOR USE AND MOUNTED IN APPROVED WEATHERPROOF BOXES AND IN ACCORDANCE WITH TITLE 19, CHAPTER 1.5, ARTICLE 1, SECTION 200.

19. ALARM SIGNALS SHALL BE DISTINCTIVE FROM ANY OTHER SIGNAL AND SHALL NOT BE USED FOR ANY OTHER PURPOSE. (NFPA 72, 2002 EDITION)

20. SUPERVISORY DEVICE SHALL BE IDENTIFIED BY THE CODED PANEL, AND THE CODED PANEL, AND THE IDENTIFYING CODES SHALL BE IDENTIFIED ON THE LCD DISPLAY OF THE CONTROL UNIT, AND (REMOTE ANNUNCIATOR WHERE PROVIDED) THE SET PANELS HAVE SEPARATE DISPLAY QUEUES FOR ALARM, SUPERVISORY AND TROUBLE. (NFPA 72, 2002 EDITION)

21. THE FIRE ALARM SYSTEM SHALL BE ADDRESSABLE TYPE FOR EST FIRE ALARM SYSTEM AND COMPONENTS. EACH INITIATING DEVICE SHALL BE INDIVIDUALLY

- NOTE:**
- SYMBOLS REPRESENT EQUIPMENT AND OUTLET BOXES TO WHICH CONDUIT AND WIRE IS RUN FOR CONNECTION TO FIXTURES AND DEVICES.
  - NOT ALL SYMBOLS APPLY TO THIS PROJECT; DISREGARD THOSE NOT USED ON PLANS AND IN DETAILS.
  - MOUNTING HEIGHTS IN SYMBOL LIST APPLY UNLESS OTHERWISE NOTED ON DRAWINGS.
- ELECTRICAL WALL MOUNTED PANEL (\*60" AFF), SEE SCHEDULE.
- ELECTRICAL FLUSH MOUNTED PANEL (\*60" AFF), SEE SCHEDULE.
- DISCONNECT SWITCH, MANUAL EXD, H.P. RATED FUSED TO AMPERE RATING SHOWN)  
WEATHER PROOF, HEAVY DUTY LOCKABLE IN OR POSITION  
JUNCTION BOX, WITH COVER (45" SQUARE, DEEP, WITH PLASTER RING)
- JUNCTION BOX, WALL MOUNTED, WITH COVER, \*18"
- DUPLEX RECEPTACLE, "DECORA" STYLE FLUSH IN WALL, GROUNDING TYPE, \*18" AFF ON WALL OR 42" AFF ABOVE COUNTER (I/J/N) (20A, 120V, STAINLESS STEEL COVER PLATE & RECEPTACLE FINISH AS SELECTED BY ARCHITECT)
- DOUBLE DUPLEX RECEPTACLE, "DECORA" STYLE FLUSH IN WALL, GROUNDING TYPE, \*18" AFF ON WALL OR 42" AFF ABOVE COUNTER (I/J/N) (20A, 120V, STAINLESS STEEL COVER PLATE & RECEPTACLE FINISH AS SELECTED BY ARCHITECT)
- TWO RECEPTACLE WITH GROUND-FAULT CIRCUIT INTERRUPTER, "DECORA" STYLE FLUSH IN WALL, \*18" AFF ON WALL OR 42" AFF ABOVE COUNTER (I/J/N) (20A, 120V, 3W, STAINLESS STEEL COVER PLATE & RECEPTACLE FINISH AS SELECTED BY ARCHITECT)
- SPECIAL RECEPTACLE, WALL MOUNTED, \*18" AFF ON WALL OR 42" AFF ABOVE COUNTER (I/J/N), SEE REFERENCE NOTE FOR DETAILS (STAINLESS STEEL COVER PLATE & RECEPTACLE FINISH AS SELECTED BY ARCHITECT)
- SWITCH, FLUSH IN WALL, "DECORA", SINGLE-POLE S.T., \*42" AFF  
(SUBSCRIPT DENOTES UNIT CONTROLLED, STAINLESS STEEL COVER PLATE & SWITCH FINISH AS SELECTED BY ARCHITECT)
- SWITCH, MOTOR-RATED, S-P-T
- SWITCH, 3-POSITION (UP/DOWN/STOP)
- WEATHERPROOF SWITCH.
- SQUARE-D TOGGLE TYPE, 2 POLE, FRACTIONAL, HP MANUAL, STARTER WITH MELTING ALLOY TYPE THERMAL OVERLOAD RELAYS NEMA1 ENCLOSURE
- SWITCH, FLUSH IN WALL WITH INTEGRAL OCCUPANCY SENSOR, DUAL TECHNOLOGY  
LOW VOLTAGE S.T., \*42" AFF
- LOW VOLTAGE S.T. WITH INTEGRAL OCCUPANCY SENSOR, DUAL TECHNOLOGY, ACILITY LIGHT #1M POT P.9

[illegible]

CUTTING, BORING, SAW CUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENT TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND STRUCTURAL ENGINEER WITH THE APPROVAL OF USA.

ALL PENETRATION THRU EXISTING EXTERIOR WALL SHALL BE PROVIDED ALL UL LISTED SEAL AND WATERPROOF

USE "THIN" COPPER WIRES OR EQUAL, FOR ALL BRANCH CIRCUIT WIRING WITH A SEPARATE GREEN GROUNDING CONDUCTOR. SIZE PER NEC 250-122.

EQUIPMENT SHALL BE LISTED BY A RECOGNIZED TESTING LABORATORY.

ALL LOW VOLTAGE WIRE, DATA CABLE INSTALLATION, TERMINATING, AND EQUIPMENT SHALL BE IN CONFORMITY WITH THE REQUIREMENTS AND SUBJECT TO APPROVAL OF THE DISTRICT'S COMMUNICATION PERSONNEL AND SHALL COMPLY WITH DISTRICT'S COMMUNICATION SPECIFICATIONS (DIVISION 27.4 & 28) AND REQUIREMENTS

IRRELEVANT INFORMATION ON DRAWINGS AND DATA SHEETS SHALL BE COMPLETELY MARKED OUT LEAVING ONLY DATA THAT PERTAINS TO THE ITEMS SUBMITTED FOR APPROVAL. EQUIPMENT SHALL NOT BE DELIVERED TO THE SITE UNTIL SHOP DRAWINGS HAVE BEEN APPROVED. APPROVAL OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO CONFORM TO THE PLANS AND SPECIFICATIONS NOR OF RESPONSIBILITY FOR SATISFACTORY PERFORMANCE OF EQUIPMENT.

NOTIFY THE SUPPLIER OF ANY MISSING OR BROKEN PARTS OR ANY MISSING OR BROKEN FIXTURES AT LEAST FOURTEEN (14) DAYS PRIOR TO JOB STARTUP. THE SUPPLIER SHALL BE RESPONSIBLE FOR THE DELIVERY OF REPLACEMENT PARTS OR FIXTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF SUCH EQUIPMENT OR RELATED WORK WHICH IS JUDGED UNSATISFACTORY FOR ANY REASON SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

USE "THIN" COPPER WIRES OR EQUAL, FOR ALL BRANCH CIRCUIT WIRING WITH A SEPARATE GREEN GROUNDING CONDUCTOR. SIZE PER NEC 250-122.

EQUIPMENT SHALL BE LISTED BY A RECOGNIZED TESTING LABORATORY.

DATA CABLE INSTALLATION, TERMINATING, AND EQUIPMENT SHALL BE IN CONFORMITY WITH THE REQUIREMENTS AND SUBJECT TO APPROVAL OF THE DISTRICT'S COMMUNICATION PERSONNEL AND SHALL COMPLY WITH DISTRICT'S COMMUNICATION SPECIFICATIONS (DIVISION 27) AND REQUIREMENTS.

THE NON-CURRENT CARRYING METALLIC PARTS OF ALL ELECTRICAL EQUIPMENT AND ENCLOSURES, INCLUDING CONTROLS, SUPPORTS, CABINETS, AND ASSOCIATED EQUIPMENT, WHICH ARE INSTALLED OR CONNECTED UNDER THIS CONTRACT, SHALL BE PROPERLY GROUNDING BY CONNECTION TO THE GROUNDING SYSTEM, REGARDLESS OF WHETHER OR NOT THESE CONNECTIONS ARE SHOWN ON THE DRAWINGS.

A. THE GROUNDING INSTALLATION SHALL HAVE PROVISIONS FOR BOTH SYSTEM AND EQUIPMENT GROUNDS AS DEFINED BY THE "CEC" THESE GROUNDING SYSTEMS ARE TO BE EFFECTIVELY INSULATED FROM EACH OTHER EXCEPT AT THE SERVICE CONNECTION.

B. GROUNDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF "CEC" AND THE "NEC" LOCAL REQUIREMENTS OF THE INSPECTION AUTHORITY HAVING JURISDICTION SHALL GOVERN IN ALL MATTERS OF INTERPRETATION.

C. THE SERVICE USE OF THE FOLLOWING SHALL BE PROHIBITED:

1. USE OF 1/2" SHALE WATER PIPE IS ELECTRICALLY CONTINUOUS AT JOINTS

2. USE OF AND IS CONDUCTING MATERIAL, WATER PIPING WITH SWEATED JOINTS IN ELECTRICAL PATH SHALL HAVE SUCH JOINTS BONDED

D. WHERE GROUND CABLES ENTER AND LEAVE FERROUS CONDUITS, THEY SHALL BE MECHANICALLY CONNECTED TO THE END OF THE RACEWAY.

E. GROUNDING CABLES SHALL BE PROTECTED FROM PHYSICAL DAMAGE AND FROM FRAMING CONNECTION SHALL BE MADE TO SUCH METAL.

THE CONTRACTOR SHALL KEEP ALL PARTS OF THE BUILDING AND SITE FREE FROM ANY ACCUMULATIONS OF RUBBISH OR WASTE MATERIALS CAUSED BY HIS WORKMEN, AND SHALL REMOVE SUCH ACCUMULATIONS FROM THE BUILDING, SITE AND PROPERTY. JOB SITE SHALL BE CLEANED AT THE END OF EACH WORKDAY.

THOROUGHLY CLEAN ALL PARTS OF THE EQUIPMENT AND MATERIAL, INSTALLED UNDER THIS DIVISION, SURFACES OF EXPPOSED CONDUIT SHALL BE CLEANED OF GUM, PLASTER, DIRT, RUST, GREASE, AND OTHER FOREIGN MATTER, AND BE LEFT IN CONDITION SUITABLE TO THE CONTRACTOR AND

1. BEFORE COMMENCING DEMOLITION WORK, THE CONTRACTOR SHALL REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND WORKING DRAWINGS AND FIELD VERIFY ALL EXISTING CONDITIONS AND ANY QUESTIONABLE WORK ASSOCIATED WITH DISCONNECTING AND/OR REMOVAL OF EXISTING ELECTRICAL DEVICES, CIRCUITS, AND/OR EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION WORK AND FOR THE PROTECTION OF REMAINING WORK.
2. THE CONTRACTOR SHALL NOTIFY THE DISTRICT, CONSTRUCTION MANAGER AND ARCHITECT/ENGINEER IMMEDIATELY WHEREVER REMOVAL OF EXISTING CONDUIT AND/OR EQUIPMENT WILL INTERFERE WITH EQUIPMENT THAT IS TO REMAIN OR INTERFERE WITH THE NEW EQUIPMENT INSTALLATION. IN SUCH SITUATIONS CONTRACTOR SHALL EXTEND PATHWAYS AND WIRING TO MATCH EXISTING BY TYPE & SIZE TO PROVIDE OPERABLE SYSTEM.
3. THESE DRAWINGS INCLUDE EXISTING CONDITIONS THAT WERE TAKEN FROM RECORD DRAWINGS/FIELD VISUAL VERIFICATIONS. THE ARCHITECT/ENGINEER SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY AND INVESTIGATE ALL EXISTING FIELD CONDITIONS AND EXERCISE CAUTION IN THE DEMOLITION PROCESS, AND PROMPTLY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES ENCOUNTERED.
4. EXISTING DEVICES AND EQUIPMENT NOT INDICATED TO BE REMOVED OR ABANDONED ARE TO REMAIN IN USE. PER PROVISIONS OF CFC SECTION 104.7.1, ELECTRICAL SHORT CIRCUIT TESTS WHICH CONNECTIONS ARE MADE, SHUT-DOWN TIME OF THE EXISTING ELECTRICAL EQUIPMENT SHALL BE AT A TIME CONVENIENT AND AGREEABLE TO THE DISTRICT. EXISTING EQUIPMENT FOR PROTECTION SHALL BE PLACED BACK TO ITS ORIGINAL LOCATION AND THE CFC SECTION 104.7.1.2 SHALL BE OBSERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING AND OPERABLE SYSTEM. NO ADDITIONAL CHARGES WILL BE ALLOWED FOR REPAIRING, REPLACING AND/OR RECONNECTING THE EXISTING SYSTEM DISTURBED THROUGH THIS CONDITION.
5. UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL DEVICES ASSOCIATED WITH THE EXISTING EQUIPMENT BEING REMOVED. REMOVE ALL EXISTING ELECTRICAL DEVICES/SHORT CIRCUIT WIRING/LOW VOLTAGE SYSTEM DEVICES & WIRING BACK TO SOURCE. PROVIDE BLANK STAINLESS STEEL COVER PLATES FOR REMOVED DEVICES AT SOLID WALLS (CONCRETE).
6. THE CONTRACTOR, ACCOMPANIED BY THE DISTRICT, SHALL TAKE INVENTORY OF THE EXISTING MATERIAL AND EQUIPMENT. ALL MATERIAL AND EQUIPMENT NOT TO BE REMOVED SHALL BE SALVAGED AND STORED IN THE LOCATION(S) CHOSN BY THE DISTRICT. THE EQUIPMENT AND DEVICES SHALL BE NEATLY PLACED, STORED AND PROTECTED FROM DAMAGE. ALL MATERIAL AND EQUIPMENT NOT SELECTED BY THE DISTRICT SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM PROJECT SITE.
7. COORDINATE ALL DEMOLITION WITH THE NEW REQUIREMENTS TO ASSURE THAT NEW INSTALLED SYSTEM IS COMPLETE AND OPERABLE.
8. CAREFULLY PROTECT ALL EXISTING WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES LIMIT DAMAGE TO THE CONFINED SPACE AND RESTORE TO ORIGINAL CONDITION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND PAINTING ALL FLOORS, WALLS, CEILINGS, AND OTHER SURFACES AFFECTED BY DEMOLITION OR CONSTRUCTION ACTIVITIES. ALL PATCHED AND PAINTED AREAS SHALL MATCH EXISTING ADJACENT FINISHES SURFACE.
10. PRIOR APPROVAL MUST BE OBTAINED FROM THE ARCHITECT/ENGINEER BEFORE NOTICING, CORING AND/OR CUTTING OF EXISTING STRUCTURE IS DONE.
11. PROVIDE BLANK STAINLESS STEEL COVER PLATES TO REMOVED DEVICES. COLOR WHITE OR AS SELECTED BY DISTRICT, TYPICAL 1/8".
12. ALL REMOVED EQUIPMENT SHALL BE DISPOSED OF BY CONTRACTOR UNLESS OTHERWISE SALVAGED AS DIRECTED BY DISTRICT.
13. THE PROVISIONS OF CFC 2022, CHAPTER 9.1.1 AND 9.33 & CBC 2022, CHAPTER 33 SHALL BE ENFORCED ON THIS PROJECT.
14. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL BE IN COMPLIANCE WITH CFC 2022, CHAPTER 9.1.1 AND 9.33 & CBC 2022, CHAPTER 33.
  - EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN SERVICE, UNIMPAIRED, AT ALL TIMES DURING CONSTRUCTION, UNLESS UNDER FIRE WATCH.
  - PROVIDE FIRE WATCH UNTIL THE NEW SYSTEM IS IN OPERATION AND APPROVED BY IFD, OR, ISRA (R-2), LOCAL FIRE AUTHORITY, AND DISTRICT.
  - PROVIDE FIRE WATCH PER CFC 901.7 SYSTEM OUT OF SERVICE, REFER TO SPECIFICATION SECTION 28-02 ATTACHMENT B FOR CSFM FIRE WATCH GUIDE LINE.

APPLICABLE CODES AS OF JANUARY 1, 2023		
TITLE 24 C.C.R. PART1 2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE		
TITLE 24 C.C.R. PART2 2022 CALIFORNIA BUILDING CODE (CBC)		
TITLE 24 C.C.R. PART3 2022 CALIFORNIA ELECTRICAL CODE (CEC)		
TITLE 24 C.C.R. PART4 2022 CALIFORNIA FIRE PROTECTION ASSOCIATION, NFPA		
TITLE 24 C.C.R. PART5 2022 CALIFORNIA MECHANICAL CODE (CMC)		
TITLE 24 C.C.R. PART6 2022 CALIFORNIA PLUMBING AND MECHANICAL OFFICIALS (APMO)		
TITLE 24 C.C.R. PART7 2022 CALIFORNIA PLUMBING CODE (CPC)		
TITLE 24 C.C.R. PART8 2022 CALIFORNIA PLUMBING AND MECHANICAL OFFICIALS (APMO)		
TITLE 24 C.C.R. PART9 2022 CALIFORNIA FIRE CODE (CFC)		
TITLE 24 C.C.R. PART10 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)		
TITLE 24 C.C.R. PART11 2022 CALIFORNIA EXISTING BUILDING CODE COUNCIL, WITH AMENDMENTS		
TITLE 24 C.C.R. PART12 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE)		
TITLE 24 C.C.R. PART13 2022 CALIFORNIA REFERENCED STANDARDS CODE		
TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.		
<h2>PARTIAL LIST OF APPLICABLE STANDARDS</h2>		
NFPA 70	NATIONAL ELECTRICAL CODE,	2021 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2022 EDITION
NFPA 101	LIFE SAFETY CODE - SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES	2021 EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2016 EDITION
UL 1680	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1996 (R2021)
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 33 AND CALIFORNIA FIRE CODE CHAPTER 80.		
SEE CALIFORNIA BUILDING CODE CHAPTER 23 FOR COMPLETE LIST OF CALIFORNIA STANDARDS REFERRED TO THE NFPA STANDARDS.		

NFPA 70	NATIONAL ELECTRICAL CODE	2021 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2021 EDITION
NFPA 101	LIFE SAFETY CODE - SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES	2021 EDITION
UL 464	STANDARD FOR DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2016 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 (R2021)

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SBM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE CHAPTER 29 FOR STATE OF CALIFORNIA STANDARDS RELATIVE TO THE NFPA STANDARDS.

CABLE CABLEING REFER TO SPECIFICATION DIVISIONS 27 & 28 AND DISTRICT STANDARDS.  
THE SPECIFIC CABLEING REQUIREMENTS FOR EACH COMPONENT:  
CARD READERS: 18# AWG  
DOOR POSITION SWITCH: 22# AWG  
ELECTRIC STRIKE: 16# AWG  
REX & MOTION SENSOR: 22# AWG  
SECURITY CONTROLLER: CAT 6A FROM IDF TO SECURITY CONTROLLER (ORANGE) BERTECK  
  
CABLE MANUFACTURERS AND RATINGS  
FOR EXTERIOR APPLICATIONS, USE INDOOR/OUTDOOR RATED BELDEN OR AN APPROVED EQUIVALENT BY WEST PENN.  
FOR INTERIOR APPLICATIONS, USE PLENUM RATED BELDEN OR AN APPROVED EQUIVALENT BY WEST PENN.

[illegible]

1	ELECTRICAL NOTES AND SYMBOLS LIST		
2	ELECTRICAL SINGLE LINE DIAGRAM AND PANEL SCHEDULE		
3	ELECTRICAL LIGHTING FIXTURE SCHEDULE & TITLE 24 CALC		
0	ELECTRICAL SITE PLAN		
1	ELECTRICAL FLOOR PLAN		
1	ELECTRICAL LIGHTING PLAN		
1	FIRE ALARM FLOOR PLAN		
2	FIRE ALARM RISER DIAGRAM AND CALCULATIONS		
1	ELECTRICAL DETAILS		
2	ELECTRICAL DETAILS		
3	ELECTRICAL DETAILS		
4	ELECTRICAL DETAILS		

10/07/2025
A# 03-125098 FILE NO. 19-H20

E0.1

**POMONA UNIFIED  
SCHOOL DISTRICT**

**800 S. GAREY AVENUE  
POMONA, CALIFORNIA 91766**

ELECTRICAL  
NOTES AND  
SYMBOLS LIST



DATE:	October 7, 2025				PANEL VOLTAGE:				120/240V				CIRCUIT CODE: 1=(CONTINUOUS)				2=(NON-CONTINUOUS)			
LOCATION:	BLDG. B - MECHANICAL BLDG B				PHASE & WIRE:				1PH. 3W				CIRCUIT CODE: 1=(CONTINUOUS)				2=(NON-CONTINUOUS)			
AC RATING:	Replace with new 1BP				COPPER BUS:				22GA				CIRCUIT CODE: 1=(CONTINUOUS)				2=(NON-CONTINUOUS)			
EXISTING				MAIN:				200A				CIRCUIT CODE: 1=(CONTINUOUS)				2=(NON-CONTINUOUS)				
CKT	CB	LOAD DESIGNATION				LOAD PHASES				LOAD DESIGNATION				CB	CKT					
NO	COD	TRIP	POLE	DESCRIPTION	MISC	REC	LITE	VA	A	B	VA	LITE	REC	MISC	DESCRIPTION	POL	TRIP	COD	NO	
1	50	2	-	SPARE											SPARE	2	50	2	1	
2	50	2	-	SPARE											SPARE	2	50	2	2	
3	50	2	-	SPARE					0	0					SPARE	2	50	2	3	
4	50	2	-	SPARE											SPARE	2	50	2	4	
5	50	2	-	SPARE											SPARE	2	50	2	5	
6	50	2	-	SPARE					6000					1	(E) RANGE RECEPTACLE	2	50	2	6	
7	50	2	-	SPARE							600	600							7	
8	50	2	-	SPARE															8	
9	50	2	-	SPARE															9	
10	50	2	-	SPARE															10	
11	50	2	-	SPARE															11	
12	50	2	-	SPARE															12	
13	2	-	-	(E) RANGE RECEPTACLE	1			6000	6000						SPARE AIR COMP	1	2	14	13	
14	2	-	-	(E) RANGE RECEPTACLE	1			6000	6000						SPARE	1	20	15	14	
15	20	1	-	SPARE											SPARE	1	20	16	15	
16	20	1	-	SPARE											SPARE	1	20	17	16	
17	20	1	-	SPARE					0	0					SPARE	1	20	18	17	
18	20	1	-	SPARE											SPARE	1	20	19	18	
19	20	1	-	SPARE											SPARE	1	20	20	19	
20	20	1	-	SPARE											SPARE	1	20	21	20	
21	20	1	-	SPARE					0	0					SPARE	1	20	22	21	
22	20	1	-	SPARE											SPARE	1	20	23	22	
23	20	1	-	SPARE											SPARE	1	20	24	23	
24	20	1	-	SPARE					0	0					SPARE	1	20	25	24	
25	20	1	-	SPARE											SPARE	1	20	26	25	
26	20	1	-	SPARE					0	0					SPARE	1	20	27	26	
27	20	1	-	SPARE											SPARE	1	20	28	27	
28	20	1	-	SPARE											SPARE	1	20	29	28	
TOTAL									12000	6800	CONNECTED KVA									18.6
NOTE: REPLACE EXISTING ELECTRICAL PANEL WITH NEW ELECTRICAL PANEL (SUBCAGE WALL MOUNTED). RECONNECT EXISTING FEEDER AND BRANCH CIRCUIT WIRING TO NEW PANEL. EXTEND WIRING AS REQUIRED TO RECONNECT ALL EXISTING CIRCUITS. ALL BRANCH BREAKERS SHALL BE MATCHED WITH EXISTING AC RATING. ALL UNUSED BRANCH BREAKERS SHALL BE LABELED AS "SPARE". ALL EXISTING LOADS SHALL BE IDENTIFIED AND UPDATE PANEL DIRECTORY CARD:									CONN. KVA (CODE 1)									0.0		
									CONN. KVA (CODE 2)									0.0		
									CONN. KVA (CODE 3)									18.6		
									FEEDER DEMAND KVA									17.6		
									FEEDER DEMAND AMPS									78.5		
FEED FROM DISTRIBUTION BOARD "1BD" VIA XFMR "L-4"																				



① REPLACE EXISTING ELECTRICAL PANEL WITH NEW ELECTRICAL PANEL (SEE PANEL SCHEDULE).  
RELOCATING ADJACENT EQUIPMENT SUCH AS TIME CLOCKS AS NEEDED TO ACCOMMODATE THE INSTALLATION  
RECONNECT EXISTING FEEDER AND BRANCH CIRCUIT WIRING TO NEW PANEL. EXTEND WIRING AS REQUIRED TO  
RECONNECT ALL EXISTING CIRCUITS. ALL BRANCH BREAKERS SHALL BE MATCHED WITH EXISTING ARC RATING. ALL  
UNUSED BRANCH BREAKERS SHALL BE LABELED AS "SPARE". ALL EXISTING LOADS SHALL BE IDENTIFIED AND  
UPDATE PANEL DIRECTORY CARDS.

SCIENCE LAB  
RENOVATION  
AT  
GAREY HIGH SCHOOL  
321 W. LEXINGTON AVE.  
POMONA, CA 91766

DATE	10/07/2025
DATA#	A# 03-125098 FILE NO. 19-H20
SHEET	E0.2



STATE OF CALIFORNIA <b>Indoor Lighting</b> <b>CERTIFICATE OF COMPLIANCE</b> Project Name:    Garry HS	CALIFORNIA ENERGY COMMISSION <b>INCC-174</b> (Page 4 of 7) Report Page: Date Prepared:    2/7/2025
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<b>L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY</b> This section does not apply to this project.	
<b>M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING</b> This section does not apply to this project.	
<b>N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS</b> This section does not apply to this project.	
<b>O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE</b> This section does not apply to this project.	
<b>P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))</b> This section does not apply to this project.	
<b>Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS</b> This section does not apply to this project.	
<b>R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS</b> This section does not apply to this project.	
<b>S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)</b> This section does not apply to this project.	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220301	Documentation Software: Energypro Compliance ID: EnergyPro-9702-0235-0043 Report Generated: 2025-02-07 09:38:48
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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
<b>Indoor Lighting</b>			
<b>CERTIFICATE OF COMPLIANCE</b>		<b>NBCC LTH-1</b>	
Project Name:    Garry HS	Report Page:    1	Page 1 of 7	
	Date Prepared:    2/7/2023		
<b>T. DWELLING UNIT LIGHTING</b>			
This section does not apply to this project.			
<b>U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION</b>			
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online			
Form/Title			
NRO-LTH-E - Must be submitted for all buildings			
<b>V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE</b>			
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and only with "A" in the form name must be completed through an Acceptance Test Information Provider (ATCIP). For more information visit: <a href="http://www.energy.ca.gov/stea-24/atcips/providers.html">http://www.energy.ca.gov/stea-24/atcips/providers.html</a>			
Form/Title			Systems/Spaces To Be Field Verified
NRLCA-LTH-02-A - Must be submitted for occupancy sensors and automatic time switch controls.			Whole Building Time Switch;
NRLCA-LTH-04-A - Must be submitted for demand responsive lighting controls.			Whole Building Demand Response;
Generated Date/Time:		Documentation Software: EnergyPro	
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Compliance ID: EnergyPro-9702-0235-0043	
Report Version: 2022.0.000		Report Generated: 2025-02-07 09:38:48	
Schema Version: rev.20201001			

The diagram shows a rectangular room layout with a 3x8 grid of luminaires. Each luminaire is represented by a small rectangle with a crosshair. Footcandle readings are provided for each luminaire position. Two emergency light fixtures, labeled 'R1E', are shown as shaded triangles. The room has a door on the right wall and a window on the left wall. The footcandle readings are as follows:

Row	Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8
1	+0.7	+0.9	+1.1	+1.1	+1.1	+1.1	+0.9	+0.7
2	+0.9	+1.4	+2.3	+2.3	+2.1	+2.3	+2.1	+1.5
3	+1.1	+2.2	+4.0	+4.1	+3.3	+4.1	+4.1	+2.3
4	+1.1	+2.2	+4.5	+4.1	+3.3	+4.1	+4.1	+2.2
5	+0.9	+1.4	+2.1	+2.2	+2.0	+2.2	+2.1	+1.4
6	+0.7	+0.9	+1.0	+1.1	+1.1	+1.1	+1.1	+0.9

Statistics

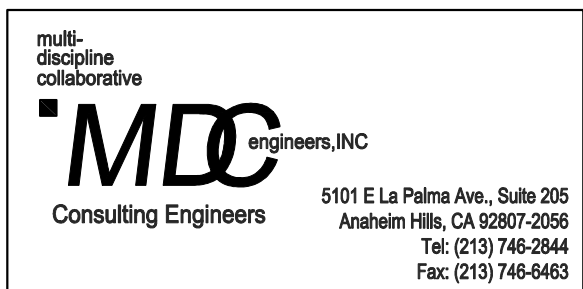
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Lab Classroom-Emergency	+	1.9 fc	4.1 fc	0.7 fc	5.9:1	2.7:1

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT

APP: 03-125098 INC:  
 REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 10/31/2025



POMONA UNIFIED  
SCHOOL DISTRICT

800 S. GAREY AVENUE  
POMONA, CALIFORNIA 91766

DATE	10/07/2025
DGA #	A# 03-125098 FILE NO. 19-H20

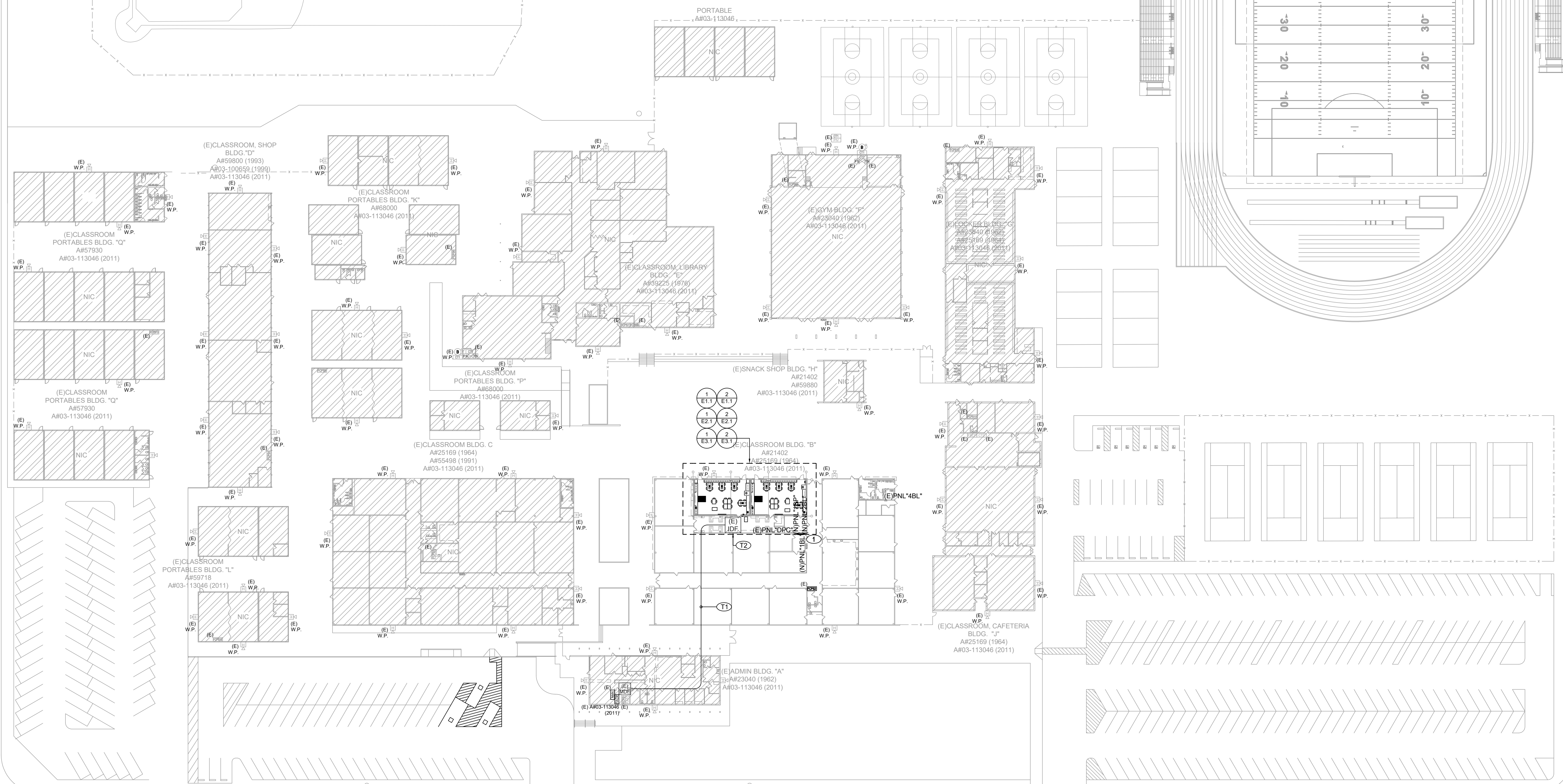
## E0.3





SCALE  
N.T.S.

2



REFERENCE  
NORTH

SCALE  
1" = 40'-0"

1

1. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL BE IN COMPLIANCE WITH CFC 002Z, CHAPTER 3, AND IAS 33.8 C-002Z, CHAPTER 33.

2. ALL ALARMS SHALL BE MAINTAINED AND TESTED IN SERVICE, UNIMPAIRED, AT ALL TIMES DURING CONSTRUCTION, UNLESS UNDER AUTHORITY OF THE CITY ENGINEER.

3. THE FIRE WATCH DURING CONSTRUCTION SHALL BE IN OPERATION AND PROVIDED BY I.O.R., OSA, IFR-2, LOCAL FIRE AUTHORITY, AND DISTRICT.

4. THE CITY ENGINEER SHALL BE NOTIFIED OF SERVICE, REFER TO SPECIFICATION SECTION 2631008 ATTACHMENT B FOR CFSM FIRE WATCH GUIDE LINE.

5. AUTOMATIC SHUTOFF IS NOT REQUIRED WHEN:

6. AUTOMATIC SHUTOFF SYSTEMS SHALL BE MAINTAINED 2000 CMF TO ENCLOSED SPACES WITHIN BUILDING. (CFC 608.1)

7. THE CITY ENGINEER SHALL BE NOTIFIED BY THE AIR-HANDLING EQUIPMENT HAVE DIRECT EXIST TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FEET (CFC 608.1, EXCEPTION 2), THE CITY ENGINEER SHALL BE NOTIFIED BY THE CITY ENGINEER.

8. DRAWINGS (A01-113046, 2011), ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY AND CONTRACTOR SHALL FIELD VERIFY AND PROVIDE ANY REMEDIATION TO PROVIDE FULLY OPERABLE FIRE DETECTION.

9. RE-PROGRAM AND TEST FIRE ALARM DEVICES AT EXISTING FACILITY PRIOR COMPLETION OF WORK FOR CONSTRUCTION AND DEMOLITION PROJECTS TO BE COMPLETED AND CHANGED WORK TO ARCHITECTURAL.

10. CONTRACTOR SHALL HAVE RE-USE FOR NEW WORK, PROVIDED THEY MEET MINIMUM CONDUIT SIZE REQUIREMENTS AND WIRE FILL CAPACITY (40%), OTHERWISE PROVIDE NEW SITES.

11. CONTRACTOR AT HIS OPTION MAY REUSE EXISTING CONDUITS WITHIN THE BUILDINGS/SIDE/PORTS AND NEW CONDUITS.

① REPLACE EXISTING ELECTRICAL PANEL WITH NEW ELECTRICAL PANEL (SEE PANEL SCHEDULE). RECONNECT EXISTING FEEDER AND BRANCH CIRCUIT WIRING TO NEW PANEL. EXTEND WIRING AS REQUIRED TO RECONNECT TO NEW PANEL. ALL EXISTING CIRCUITS TO BE IDENTIFIED AND Labeled WITH EXISTING AC RATING. ALL UNUSED BRANCH BREAKERS SHALL BE LABELED AS "SPARE". ALL EXISTING LOADS SHALL BE IDENTIFIED AND UPDATE PANEL DIRECTORY CARDS.

FIELD VERIFY THE ROUTE OF THE EXISTING 2" CONDUIT PATHWAY BETWEEN THE ANCHOR BUILDING AND THE NEW ELECTRICAL PANEL. THE EXISTING 2" CONDUIT SHALL BE IDENTIFIED WITH NEW CABLES 12 STRAND SOE FIBER, 25-PAIR CABLE UTP (INDOOR/OUTDOOR RATED, OSPD AND 11/188 PA). THE EXISTING 2" CONDUIT SHALL BE IDENTIFIED WITH NEW CABLES 12 STRAND SOE FIBER, 25-PAIR CABLE UTP (INDOOR/OUTDOOR RATED, OSPD AND 11/188 PA). EXISTING IPD TO NEW IPD LOCATION. PROVIDE NEW IPD WITH 2" NEW SIEWOM 6061-50 BLOCKS. EXISTING 2" CONDUITS TO NEW ELECTRICAL PANEL. PROVIDE BRACKET AT NEW PLYWOOD BACKBOARD. TERMINATE ALL NEW CABLES ON THESE BLOCKS.

② PROVIDE AUDIO OVER IPD (AOIP) GATEWAY (BOGEN PNO-G4000P) (WITH ACCESSORIES) ON THE PLYWOOD BACKBOARD NEAR AOIP. PROVIDE CABLE FROM NEW IPD TO AUDIO OVER IPD (AOIP) GATEWAY.

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E1.0

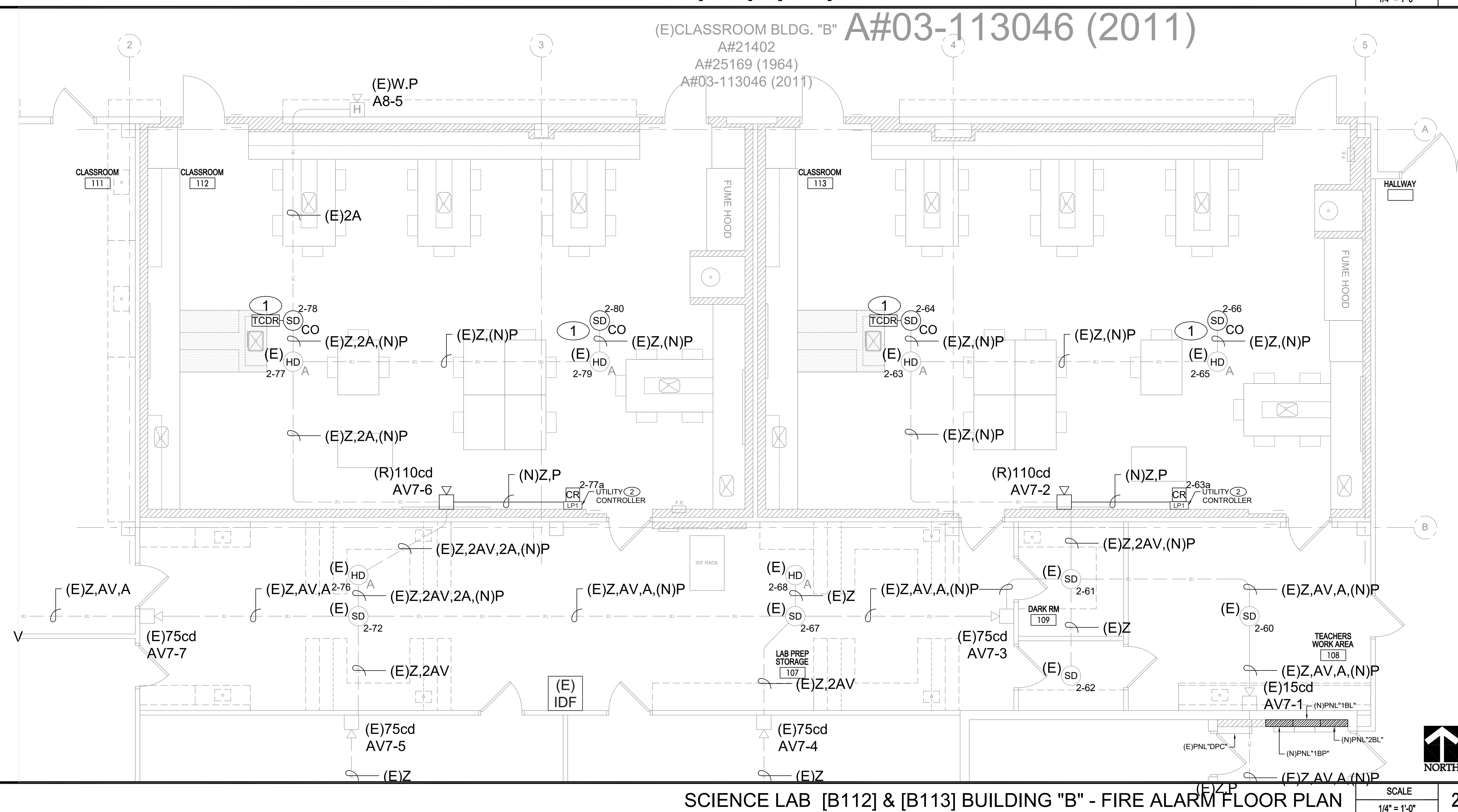
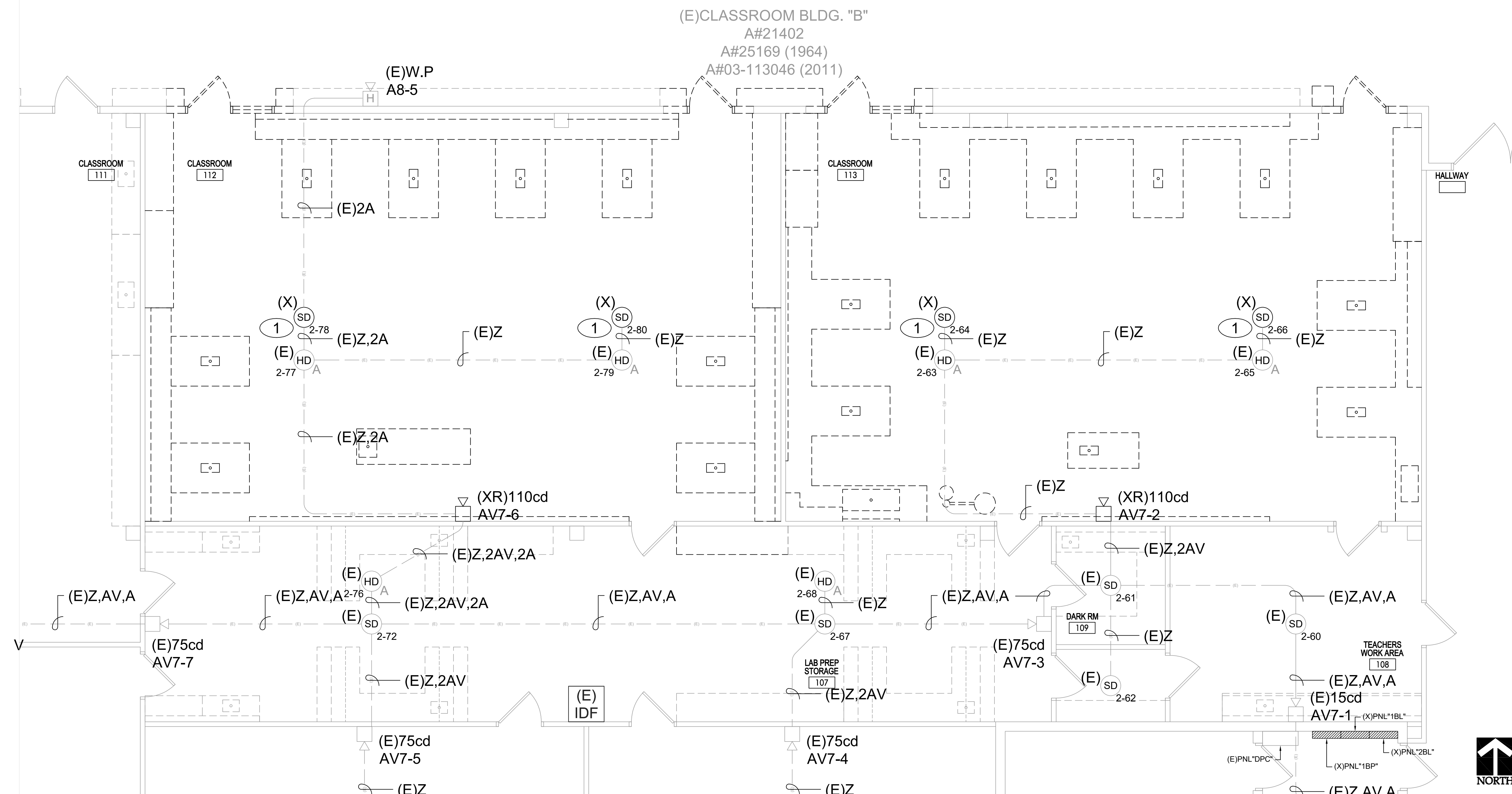






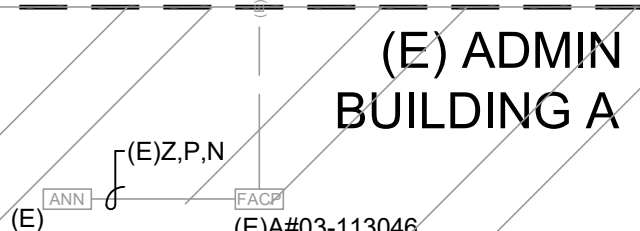






### E3.1





\* CURRENT DRAW INCLUDED WITH DEVICE ADDRESSES USED  
STANDBY TIME = 24 HRS X SUPERVISORY CURRENT  
ALARM TIME = 5 MINUTES (0.0833HRS)  
ADDITIONAL SPARE CAPACITY @ 25% OF TOTAL CURRENT  
TOTAL BATTERY REQUIRED(Ah)  
BATTERIES SUPPLIED 60 Ah

Conductor Size AWG	3/4" Conduit		1" Conduit	
	Maximum Number of Conductors	Maximum Weight (lbs/ft)	Maximum Number of Conductors	Maximum Weight (lbs/ft)
14 and smaller	22	0.802	35	1.210
12	16	0.834	26	1.274

<b>Symbol</b>	<b>Circuit Type</b>	<b>Cable Desc.</b>	<b>Pairs @ Conduit</b>	<b>Jacket Color</b>	<b>Jacket Strips</b>	<b>Notes</b>
	Signature Analog Addressable Loop	#16 TWB	102MR	Red	Yellow	Loop Controller (3-SSDC) to signature devices
AV	Notification Appliance Circuit (NAC) 24vdc	#12/14 TWB	122MR/142MR	Red	Orange	Output circuits to 3C8-Bedra and modules (CC1, CC5, CC2)
P	24V DC Power Distribution	#14 TWB	142MR	Red	Grey	4 wire detector/Relay/Alarm./Door Holder
	AES Cables Communications Network	#16 TWB	47A/B	Black	White	500ft max between any three panels
Note:	Alarm cables installed in conduits outside of underground fire alarm cable trays (FATC) rated cables to Non-AEC rated cables within building interiors shall be terminated at Fire Alarm Control Cabinets (FACCs). Where no existing FATC is shown on drawings, provide new FATC 12"x6"x4" NEMA 1 screw cover box with terminal strips for termination. Locate FATC within building at the point of entry to building or as directed by district. No wiring splices are allowed; all cables shall be terminated at approved equipment. All conduit shall be sealed at each end with fire-rated sealant. Provide conduit and sealant water block Foam-Based duct sealing system at all conduit openings (both ends) at each underground pull boxes (existing/proposed).					

### E3.2





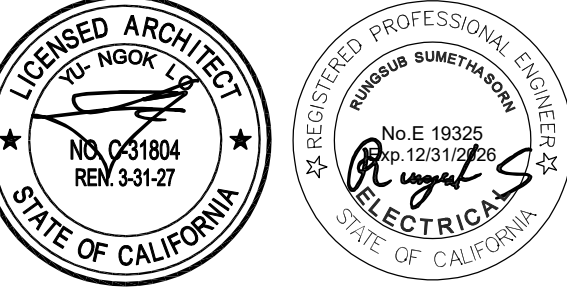
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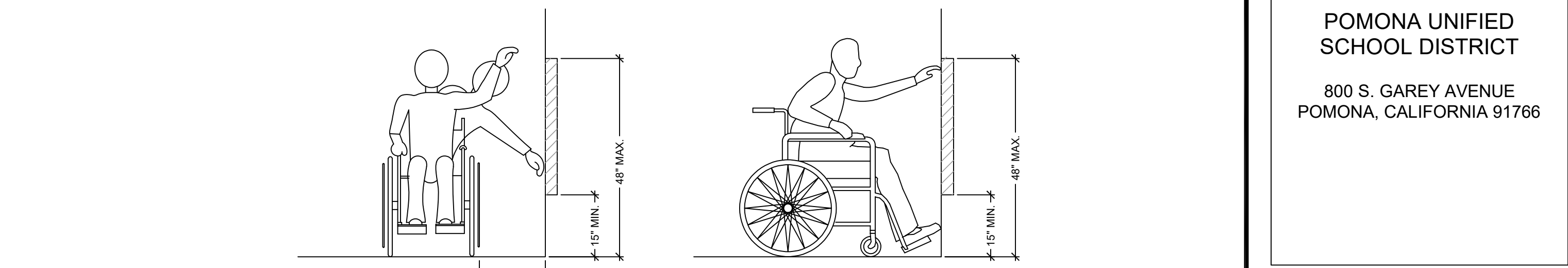
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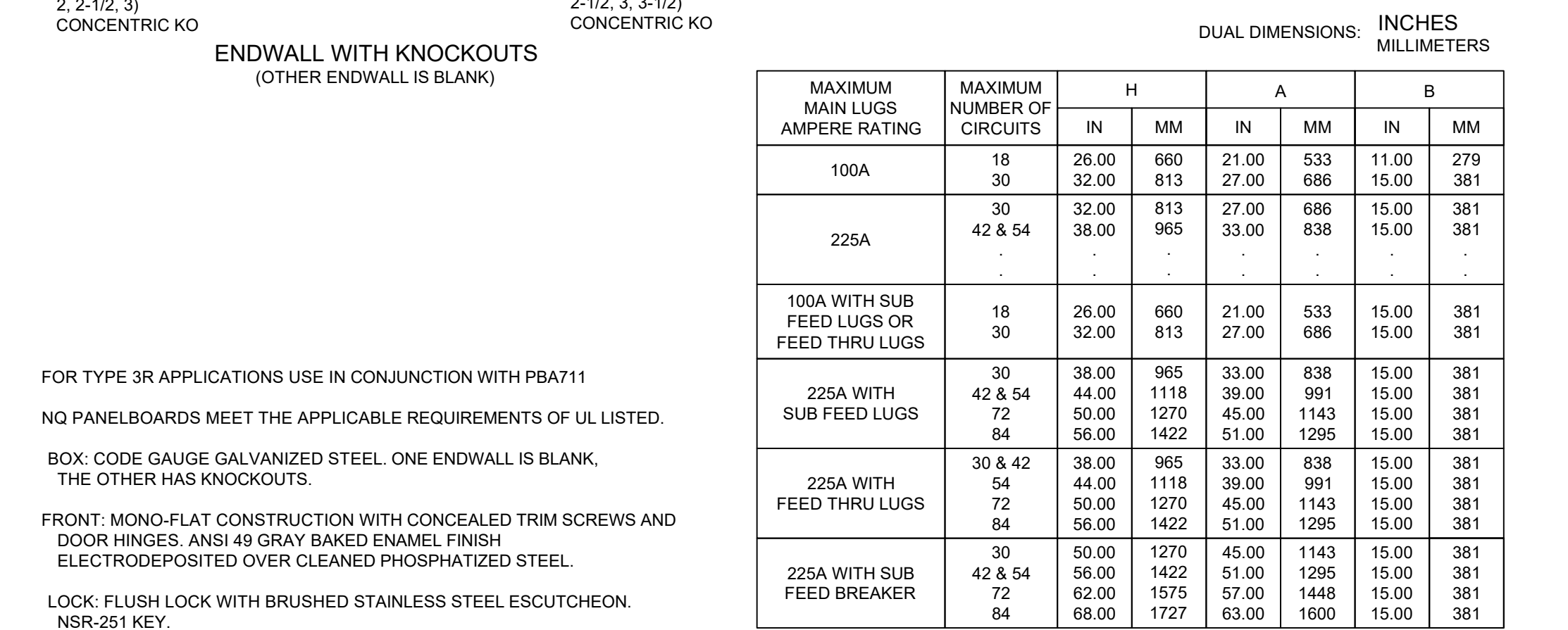
## ELECTRICAL DETAILS

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SHEET	

## E4.1







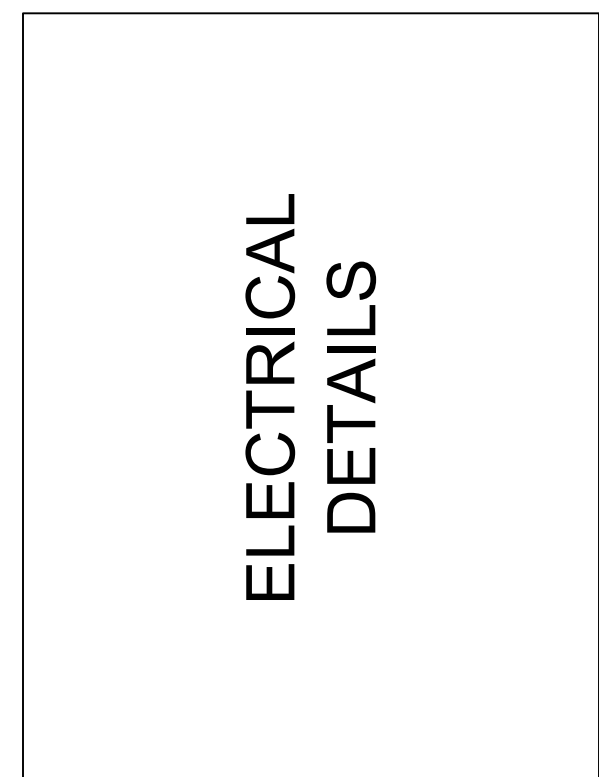
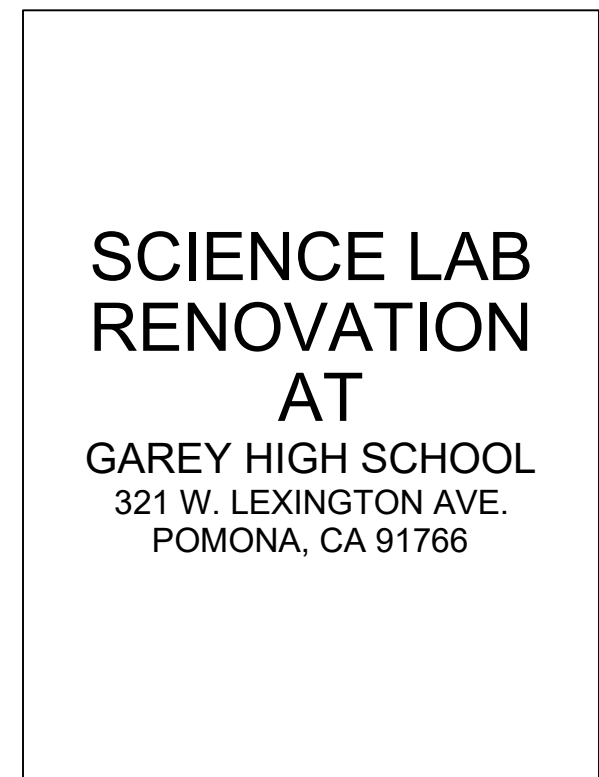
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E4.2

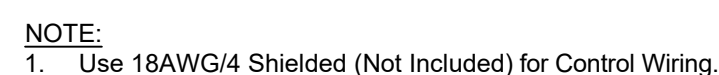


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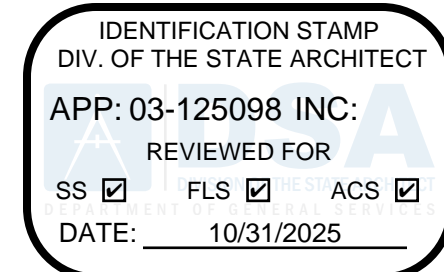
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E4.3





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E4.4

**NOTES:**

1. THIS IS A CONCEPTUAL BASED DRAWING AND IS NOT INTENDED FOR WIRING DIAGRAM USE.
2. ALL CABLING FOR EXTRON SYSTEM SHALL BE EXTRON CABLES TO BE PROVIDED AS PART OF THE EXTRON SHOP DRAWING SUBMITTALS FOR REVIEW AND APPROVAL FROM DISTRICT ITS.