RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

DSA File No. 43-4
App. No. 01-120632
PTN. 69369-92



DSA REQUIREMENTS

1. ALL WORK SHALL CONFORM TO THE 2019 EDITION OF THE TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. AS A FACILITY WHICH COMES UNDER THE APPROVAL AND AUTHORITY OF THE DIVISION OF THE STATE ARCHITECT (DSA), THIS PROJECT IS SUBJECT TO DRAWING AND JOB SITE REVIEW BY A REPRESENTATIVE OF DSA.
3. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS AFFECTING FLS, SSS, AND/OR ACS SHALL BE MADE BY ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR AND DSA IR A-6.
4. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 C.C.R.
5. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
6. A COPY OF PART 1 TO PART 5 OF TITLE 24 SHALL BE KEPT AND BE AVAILABLE IN THE FIELD DURING CONSTRUCTION.
7. DSA SHALL BE NOTIFIED OF THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24, CCR
8. THE DIVISION OF THE STATE ARCHITECT IS EXEMPT FROM ARBITRATION OR MEDIATION PROCEDURES.
9. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT IS REQUIRED PER SECTION 4-334, PART 1, TITLE 24, CCR.
10. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, CCR:
    - VERIFIED REPORTS PER SECT 4-336; PART 1, TITLE 24 CCR
    - DUTIES OF ARCHITECT PER SECT 4-331, 4-341; PART 1, TITLE 24 CCR
    - DUTIES OF CONTRACTOR PER SECT. 4-343; PART 1, TITLE 24
11. TESTING AND INSPECTION:
    - INSPECTOR APPROVED BY DSA AS PER SECT. 4-333(D); PART 1, TITLE 24, CCR
    - TESTS AND TESTING LABORATORIES PER SECT 4-335
    - SPECIAL INSPECTION PER SECT. 4-333(C)
12. CHANGES IN LEVEL FOR FLOOR FINISHES SHALL CONFORM WITH CBC SECTION 11B-303.
13. ALL TESTS TO CONFORM TO REQUIREMENTS OF SECTION 4-335; PART 1, TITLE 24, CCR
14. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335; PART 1, TITLE 24, CCR AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS FOR RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.
15. INSPECTOR SHALL BE APPROVED BY DSA. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(B).
16. 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)
17. INSPECTOR OF RECORD REQUIREMENTS:
    A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTOR'S DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24; PART 1 AND IN ADDITION, SHALL BE STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8.
    B. INSPECTOR SHALL BE CERTIFIED AS A CLASS 2 INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.
18. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AN IN COMPLIANCE WITH THE ENERGY CODE.
    A. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
    B. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECT SUBMITTED ON OR AFTER OCTOBER 1, 2021.
    C. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TEST SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
    D. 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.
    E. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, 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.
    F. PROJECT INSPECTOR WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
19. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION WILL BE ENFORCED IN ACCORDANCE WITH CBC & CFC CHAPTER 33.

DEFERRED APPROVALS

1. NONE

ADD ALTERNATES

1. NONE

CODES AND REGULATIONS

APPLICABLE STATE CODES AND REGULATIONS WITH LATEST AMENDMENTS AND SUPPLEMENTS:

1. 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 CCR
2. 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2018 IBC & CALIFORNIA AMENDMENTS)
3. 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE & CALIFORNIA AMENDMENTS)
4. 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 UNIFORM MECHANICAL CODE & CALIFORNIA AMENDMENTS)
5. 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2018 UNIFORM PLUMBING CODE & CALIFORNIA AMENDMENTS)
6. 2019 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CBSC
7. 2019 CALIFORNIA HISTORICAL BUILDING CODE, PART 8, TITLE 24 CCR
8. 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE & CALIFORNIA AMENDMENTS)
9. 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
10. 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CCR
11. TITLE 8 CCR, CH. 4, SUB-CH. 6 - ELEVATOR SAFETY ORDERS
12. TITLE 19 CCR, PUBLIC SAFETY, SFM REGULATIONS
13. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE PART 11, TITLE 24

APPLICABLE FEDERAL CODES AND STANDARDS:

14. AMERICANS WITH DISABILITIES ACT (ADA), TITLE 11
15. UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) or ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)

APPLICABLE REFERENCED STANDARDS:

16. NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED), 2016 EDITION
17. NFPA 24, PRIVATE FIRE MAINS (CA AMENDED), 2022 EDITION
18. NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED), 2022 EDITION
19. NFPA 80, FIRE DOOR AND OTHER OPENING PROTECTIVES, 2019 EDITION
20. NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2018 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2022 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

PROJECT DESCRIPTION

APN: 484-140-14

THE PROJECT INCLUDES HVAC REPLACEMENT IN EXISTING BUILDINGS; ADMINISTRATION/KINDERGARTEN, MULTI-PURPOSE, CLASSROOM BUILDINGS A-D, AND ASSOCIATED SITE WORK RELATED TO THE INSTALLATION OF CONDENSING UNITS/PUMPS INCLUDING PLUMBING, MECHANICAL, AND ELECTRICAL WORK; INTERIOR LIGHTING, AND CEILING FINISH UPGRADES. RE-ROOFING IN CLASSROOM BUILDINGS C-D. ACCESSIBILITY UPGRADES TO RESTROOMS IN ADMINISTRATION/KINDERGARTEN AND PARKING.

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS,
INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

Application No. 01-120632
File No. 43-4

[X] The drawings or sheets listed on the cover or index sheet (all S, M, E, P and FA drawings)
[ ] This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1. design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2. coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 [b])

I find that:
[X] All drawings or sheets listed on the cover or index sheet
[ ] This drawing or page

[X] is/are in general conformance with the project design and
[X] has/have been coordinated with the project plans and specifications

Signature — *Date* 04/24/2023

Architect or Engineer designated to be in general responsible charge.

Brian P. Whitmore
Print Name

C 30345 — ***License Number***
09-30-2023 — ***Expiration Date***

STATEMENT OF GENERAL CONFORMANCE AND SIGNATURE BLOCK PER IR A-18

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A2.2	DEMO & NEW FLOOR PLAN - KINDER-ADMIN BUILDING 2
A2.3	DEMO & NEW FLOOR PLAN - CLASSROOM - BUILDING A
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A2.5	DEMO & NEW FLOOR PLAN - CLASSROOM - BUILDING C
A2.6	DEMO & NEW FLOOR PLAN - CLASSROOM - BUILDING D
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A3.2	DEMO & NEW REFLECTED CEILING PLAN - KINDER-ADMIN - BUILDING 2
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T24.15	TITLE 24 CALCULATIONS
T24.16	TITLE 24 CALCULATIONS
T24.17	TITLE 24 CALCULATIONS
T24.18	TITLE 24 CALCULATIONS
TOTAL SHEET COUNT: 114	

PROJECT DIRECTORY

CLIENT
ALUM ROCK UNION SCHOOL DISTRICT

ED VILLARREAL, DIRECTOR OF MAINTENANCE, OPERATIONS, AND TRANSPORTATION
2930 GAY AVE.
SAN JOSE, CA 95127
[T] (408) 928-6870 x 6872
ed.villarreal@arusd.org

ARCHITECT
STUDIO W ARCHITECTS

BRIAN WHITMORE, PRINCIPAL
1930 H STREET
SACRAMENTO, CA 95811
[T] (916) 254-5600
BrianW@StudioW-Architects.com

MICHELE GARGANO, CLIENT LEADER, SENIOR ASSOCIATE
1930 H STREET
SACRAMENTO, CA 95811
[T] (916) 254-5609
MicheleG@StudioW-Architects.com

CHRIS DALLMEYER, PROJECT ARCHITECT
1930 H STREET
SACRAMENTO, CA 95811
[T] (916) 254-5614
ChrisD@StudioW-Architects.com

STRUCTURAL ENGINEER
MLA STRUCTURAL ENGINEERS, INC.

JOHN MANDSAGER
1132 SUNCAST LANE, SUITE 6
EL DORADO HILLS,CA 95762
[T] (916) 941-2425
John@mla-se.com

MECHANICAL, ELECTRICAL & PLUMBING ENGINEER
LP CONSULTING ENGINEERS

SEAN POURVAKIL
1209 PLEASANT GROVE BLVD
ROSEVILLE, CA 95678
[T] (916) 771-0778
SPourvakil@LPengineers.com

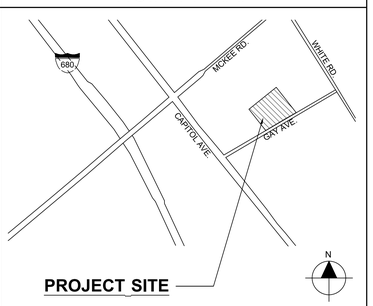
RAMI ZEIDAN
777 GRAND AVE, SUITE 201
SAN RAFAEL, CA 94901
[T] (415) 843-5328
RZeidan@LPengineers.com

RYAN ENNIS
1209 PLEASANT GROVE BLVD
ROSEVILLE, CA 95678
[T] (916) 771-0778
REnnis@LPengineers.com

SPECIFICATION WRITER
BYUN PARTNERS

DAVID BYUN
1205 HAZEL PLACE
COSTA MESA, CA 92626
[T] (310) 800-0353
david@byunpartners.com

VICINITY MAP



DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRIAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023	

GENERAL NOTES

1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
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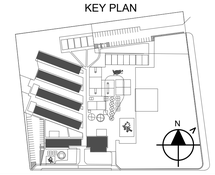
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

COVER SHEET

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A0.1
Drawn / Checked	
KT / CD	

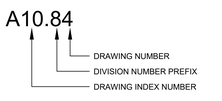
DRAWING DISCIPLINE PREFIX

A. ARCHITECTURAL
C. CIVIL
D. INTERIOR DESIGN / FURNITURE
E. ELECTRICAL
FA. FIRE SPRINKLER SYSTEM
FP. FIRE PROTECTION
FS. DIETARY / FOOD SERVICE
G. GRAPHICS
H. HAZARDOUS MATERIALS
L. LANDSCAPING
M. MECHANICAL
P. PLUMBING
S. STRUCTURAL
T. TELECOMMUNICATION

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A4. ROOF PLANS
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DETAIL DRAWING CODE



THE DIVISION PREFIX NUMBERS ARE THOSE IDENTIFIED BY THE 48 DIVISION GROUPING SYSTEM OF MASTERFORMAT AS PUBLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE (CSI) AND SHALL NOT BE SOLELY REPRESENTATIVE OF REQUIREMENTS FOR ANY ONE DIVISION. THOSE DIVISIONS NOTED AS BEING OMITTED ARE NOT APPLICABLE OR ARE INCLUDED UNDER DISCIPLINE DRAWINGS.

IN CASE OF DISCREPANCY BETWEEN THE INDEX AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.

DIVISION NUMBER CODE

MASTERFORMAT NUMBERS AND TITLES AS PUBLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE (CSI).

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS
DIVISION 01 GENERAL REQUIREMENTS
DIVISION 02 EXISTING CONDITIONS
DIVISION 03 CONCRETE
DIVISION 04 MASONRY
DIVISION 05 METALS
DIVISION 06 WOODS, PLASTICS, AND COMPOSITES
DIVISION 07 THERMAL AND MOISTURE PROTECTION
DIVISION 08 OPENINGS
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DIVISION 40 PROCESS INTERCONNECTIONS
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DIVISION 44 POLLUTION AND WASTE CONTROL EQUIPMENT
DIVISION 45 INDUSTRY-SPECIFIC MANUFACTURING EQUIPMENT
DIVISION 46 WATER AND WASTEWATER EQUIPMENT
DIVISION 48 ELECTRICAL POWER GENERATION

GENERAL NOTES

1. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE VISITED THE CONSTRUCTION SITE. HE SHALL BE FAMILIAR WITH THE CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTORS FAILURE TO INSPECT THE SITE. BIDDERS SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS, REQUIRING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS.
2. THERE WILL BE NO SUBSTITUTION FOR SPECIFIED ITEMS WITHOUT PRIOR APPROVAL UNLESS OTHERWISE NOTED. REQUESTS FOR SUBSTITUTIONS SHALL BE MADE IN ACCORDANCE WITH GENERAL CONDITIONS & DIVISION 1
3. THE GENERAL BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED BY GOVERNING AGENCIES IN ORDER TO PERFORM THE WORK.
4. THE FINAL LOCATION OF ALL ELECTRICAL AND SIGNAL EQUIPMENT, PANEL BOARDS, FIXTURES, ETC., SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION.
5. DEFINITIONS
   A. "TYPICAL" MEANS IDENTICAL FOR ALL CONDITIONS, UNLESS OTHERWISE NOTED.
   B. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATIONS.
   C. "PROVIDE" MEANS TO FURNISH AND INSTALL.
   D. "FURNISH" MEANS TO FURNISH AND OTHERS WILL INSTALL.
6. DIMENSIONING RULES:
   A. ALL HORIZONTAL DIMENSIONS SHALL BE TO FACE OF STUD OR TO CENTERLINE OF COLUMN GRID LINE, U.O.N
   B. DIMENSIONS NOTED "CLEAR", "CLR", OR "MINIMUM" MUST BE PRECISELY MAINTAINED.
   C. DIMENSIONS CAN NOT BE MODIFIED WITHOUT APPROVAL OF THE ARCHITECT UNLESS OTHERWISE NOTED.
   D. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB UNLESS OTHERWISE NOTED.
   E. DO NOT SCALE DRAWINGS. IF ANY ITEM OF WORK CANNOT BE LOCATED, DO NOT PROCEED WITH THE WORK WITHOUT THE ARCHITECT'S APPROVAL.
   F. DIMENSIONS MARKED "V.I.F." OR "VERIFY" SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
   G. VERIFY ALL ROUGH OPENING DIMENSIONS FOR FABRICATED ITEMS WITH THE MANUFACTURER PRIOR TO PROCEEDING WITH CONSTRUCTION.
   H. DOOR AND WINDOW OPENINGS SHALL BE LOCATED ADJACENT TO PERPENDICULAR WALL UNLESS DIMENSIONED OTHERWISE.
7. PROVIDE REQUIRED BACKING, BLOCKING, AND BRACING FOR ALL WALL -MOUNTED FIXTURES, ACCESSORIES AND EQUIPMENT.
8. VERIFY AND COORDINATE WALLS THAT MAY REQUIRE NON-TYPICAL THICKNESS OR FRAMING DUE TO ELECTRICAL, MECHANICAL, PLUMBING, STRUCTURAL AND/OR EQUIPMENT REQUIREMENTS.
9. ALL GLAZING SHALL CONFORM TO FEDERAL GLAZING REGULATIONS AND CHAPTER 24, CBC.
10. ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL LEFT-OVER MATERIALS, DEBRIS, TOOLS AND EQUIPMENT INVOLVED IN HIS/HER OPERATIONS AT THE CONCLUSION OF THE INSTALLATION. HE/SHE SHALL LEAVE ALL AREAS CLEAN AND FREE FROM DUST.
12. HAZARDOUS MATERIALS: THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, DISPOSAL OF OR EXPOSURE OF PERSONS TO ASBESTOS OR HAZARDOUS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE. PROFESSIONAL SERVICES RELATED OR IN ANY WAY CONNECTED WITH THE INVESTIGATION, DETECTION, ABATEMENT, REPLACEMENT, USE, SPECIFICATION, OR REMOVAL OF PRODUCTS, MATERIALS, OR PROCESSES CONTAINING ASBESTOS OR HAZARDOUS OR TOXIC MATERIALS ARE BEYOND THE SCOPE OF THIS AGREEMENT.
13. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWING ARE APPROXIMATE ROUTING LOCATION AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL THE EXISTING UNDERGROUND UTILITIES
14. ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIALS AND EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
15. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED AIR/WATER TIGHT. ALL INTERIOR PENETRATIONS SHALL BE SEALED TO PROVIDE A PROFESSIONAL AND FINISHED APPEARANCE.
16. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER USE CONTROL/ OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, PROVIDE ALL ITEMS WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN CONTRACT PRICE ON TIME.
17. THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE. THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES.
18. ALL WORK SHALL CONFORM TO CALIFORNIA CODES, TRADE STANDARDS WHICH GOVERN EACH PHASE OF THE PROJECT, AND ALL APPLICABLE LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
19. THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT PROJECT MANUAL PUBLISHED IN BOOK FORM, COMBINED, THEY ARE THE "CONTRACT DOCUMENTS".
20. NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS.
21. CONSTRUCTION MATERIAL STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE OR DETERIORATION. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK. SECURITY OF MATERIALS ARE THE SOLE RESPONSIBILITY OF CONTRACTOR.
22. ALL EQUIPMENT/CABINETS SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT WITH THIS WORK.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AND COSTS ATTRIBUTED TO RAIN WATER DAMAGE DURING THE DURATION OF THIS PROJECT.
24. PROTECT AREAS FROM DAMAGE WHICH MAY OCCUR DUE TO TEMPERATURES, WIND, DUST, WATER, ETC. PROVIDE AND MAINTAIN TEMPORARY BARRICADES, CLOSURE WALLS, ETC., AS REQUIRED DURING CONSTRUCTION.
25. MAINTAIN EXISTING PEDESTRIAN ACCESS ALONG EXISTING ADJACENT STREETS.
26. ALL PUBLIC IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST ADOPTED CITY/COUNTY STANDARDS.
27. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
28. NOTIFY THE ARCHITECT IN WRITING AND SEEK CLARIFICATION IF ANY DISCREPANCIES OR OMISSIONS ARE FOUND. CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIAL WORK IF RELATED WORK IS CONTINUED AFTER A DISCREPANCY IS IDENTIFIED.
29. NEW FINISHES AND CONSTRUCTION SHALL BE PROTECTED BY THE CONTRACTOR FROM POTENTIAL DAMAGE CAUSED BY CONSTRUCTION ACTIVITY. DAMAGE TO FINISHES OR CONSTRUCTION SHALL BE REPAIRED OR REPLACED (OWNER'S DECISION) BY THE CONTRACTOR WITH IDENTICAL MATERIAL AND/OR FINISHES. CONTRACTOR SHALL MAKE AND MAINTAIN A PHOTOGRAPHIC RECORD NOTEBOOK WITH DATED/INDEXED PHOTOGRAPHS.
30. SEE ELECTRICAL DRAWINGS FOR INFORMATION RELATED TO TELECOMMUNICATION EQUIPMENT, POWER, AND LIGHTING FIXTURES AND EQUIPMENT. SEE ARCHITECTURAL PLANS, REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS FOR COORDINATED EQUIPMENT LOCATIONS. IF NOT SHOWN, CONTACT ARCHITECT FOR REVIEW AND DECISION.
31. PROVIDE ACCESS DOORS REQUIRED FOR ACCESS TO CONCEALED MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT.
32. ALL NOTED WORK IS UNDERSTOOD TO BE NEW, UNLESS LABELED AS "(E)" OR "EXISTING"
33. MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
34. EXISTING ACCESSIBLE ROUTES TO ALL FACILITIES AND BUILDING THAT ARE OPERATIONAL DURING CONSTRUCTION PHASE SHALL REMAIN UNOBSTRUCTED, SAFE AND USABLE BY PEOPLE WITH DISABILITIES.
35. "N.I.C." (NOT INCLUDED IN CONTRACT) ITEMS SHOWN IN PLANS, IF APPLICABLE, MUST BE SUBMITTED UNDER A SEPARATE APPLICATION FOR REVIEW AND APPROVAL, IF NOT EXEMPTED BY DSA IR A-22.
36. PER CBC SECTION 11B-401 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS"
   A) WHERE CODE SPECIFIES A MAXIMUM OR MINIMUM DIMENSION, THE DIMENSION INDICATED ON THE PLANS NEED TO BE:
      - AS MAXIMUM OR MINIMUM ACCORDINGLY OR
      - PROVIDE ABSOLUTE DIMENSION THAT EXCEEDS CODE MINIMUM OR MAXIMUM REQUIREMENTS WITH APPROPRIATE INDUSTRY CONSTRUCTION TOLERANCE.
   B) WHERE CODE SPECIFIES A DIMENSION AS A RANGE THE DIMENSION INDICATED ON THE PLANS SUGGESTED TO BE:
      - AS RANGE PER CODE OR
      - ABSOLUTE MID-RANGE CODE PRESCRIBED DIMENSION.

SUPPLEMENTAL GENERAL NOTES

1. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
3. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF STUDIO W ARCHITECTS, AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF STUDIO W ARCHITECTS.
4. EACH BIDDER SHALL POSSESS AT THE TIME OF BID, A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.
5. FIRE SAFETY DURING CONSTRUCTION & DEMOLITION:
   A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH 2019 CALIFORNIA FIRE CODE (CFC) CH. 33 (PART 9, TITLE 24 CCR).
   B. CONSTRUCTION SAFEGUARDS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CBC 3302.
   C. DEMOLITION: SHALL COMPLY WITH APPLICABLE PROVISION OF CBC 3303.
   D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES PER CBC 3308.1.
   E. MEANS OF EGRESS: SHALL COMPLY WITH APPLICABLE PROVISION OF CBC 3310.
   F. WATER SUPPLY: APPROVED WATER SUPPLY SHALL BE MADE AVAILABLE IN ACCORDANCE WITH CBC 3313.
   G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL PER CBC 3314.
6. PENETRATIONS IN FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.
7. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6):
   A. THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDINGS WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED THEY ARE BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE DRAWINGS.
   B. ENVELOPE MANDATORY MEASURES:
      B.A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.
      B.B. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 719
      B.C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
      B.D. SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).
      B.E. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS, SECTION 116(a)1.
      B.F. MANUFACTURED FENESTRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE IN ACCORDANCE WITH THE (NFRC) NATIONAL FENESTRATION RATING COUNCIL'S INTERIM U-VALUE RATING PROCEDURE.
      B.G. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).
8. PROOF LOAD TESTS FOR EXPANSION TYPE ANCHOR BOLTS:
   A. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE CATEGORY AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.
   B. APPLY PROOF TEST LOADS TO WEDGE & SLEEVE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
   C. FOR SLEEVE INTERNALLY THREADED CATEGORIES, VERIFY THAT THE ANCHOR IS NOT PREVENTED FROM WITHDRAWING BY A BASEPLATE OR OTHER FIXTURES. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE FIXTURE(S) PRIOR TO TESTING.
   D. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
   E. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
   F. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
      1. HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE. DROP-IN ANCHORS ARE ONLY TO BE TESTED WITH THIS METHOD.
      2. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE OR SLEEVE TYPE: ONE-HALF (1/2) TURN OF THE NUT. ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8 IN. SLEEVE ANCHOR ONLY.
   G. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
   H. ALL ANCHOR BOLTS OF THE EXPANSION TYPE (LOADED IN EITHER PULLOUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT ALLOWED BY THE TYPE OF SUBSTRATE AND DIAMETER OF BOLT LISTED BELOW UNDER TEST VALUES TABLE) PROOF TESTED IN TENSION TO TWICE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 1910A.5, " TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE."
   I. ALL BOLTS MUST HAVE ICC APPROVAL.
   J. ALL ANCHOR BOLTS OF THE EXPANSION TYPE SHALL BE ONE OF THE FOLLOWING:
      1. HILTI KB-TZ2 ANCHOR ICC NO. ESR 4266

MINIMUM TEST VALUES
NORMAL WEIGHT OR LIGHTWEIGHT CONCRETE

ANCHOR	WEDGE		
DIA. (IN)	TENSION LOAD (LBS)	TORQUE (FT-LBS)	EFFECTIVE MIN. EMBEDMENT
3/8	6,490	30	1 1/2" - 2 1/2"
1/2	11,240	50	1 1/2" - 3 1/4"
5/8	17,535	40	2 3/4" - 4"
3/4	25,335	110	3 1/4" - 4 3/4"

9. POWDER-DRIVEN CONCRETE FASTENERS:
   A. GENERAL: USE OF POWDER DRIVEN CONCRETE FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS LIKE ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT.
   B. ALLOWABLE LOADS: IN GENERAL, LOADS SHOULD BE LIMITED TO LESS THAN 100 POUNDS. HOWEVER GREATER LOADS MAY BE PERMITTED FOR SPECIAL CASES WHEN APPROVED BY THE CHECKING SUPERVISOR OR FIELD ENGINEER.
   C. TESTING: THE OPERATOR, TOOL, AND FASTENER SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD, OR 200 POUNDS, WHICHEVER IS GREATER, 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'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS, EXCEPT THAT WHEN THE DESIGN LOAD EXCEEDS 100 POUNDS, ONE HALF OF THE PINS SHALL BE TESTED. SHOULD FAILURE OCCUR ON ANY PIN TESTED, ALL INSTALLATIONS MUST BE TESTED AND UNFAIR PINS REPLACED.
   D. ALL POWDER DRIVEN CONCRETE FASTENERS SHALL BE ONE OF THE FOLLOWING: HILTI, INC.
      1. 0.145 DIA. PAF X-CR INTO STEEL BASE MATERIAL - ICC NO. ESR 1663
      2. 0.138 DIA. PAF X-CR INTO CONCRETE BASE MATERIAL - ICC NO. ESR 1663
10. SPECIFICATIONS FOR AUTOMATIC END WELDED STUDS
   A. MATERIAL: AUTOMATIC END WELDED STUDS SHALL BE NELSON GRANULAR FLUX-FILLED SHEAR CONNECTOR OR ANCHOR STUDS (OR APPROVED EQUAL). STUDS SHALL BE MANUFACTURED OF G-1015 COLD ROLLED STEEL WHICH CONFORMS TO ASTM A108.
   B. INSTALLATION: THE STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8" AND UNDER, AND 3/16" FOR OVER 5/8" DIAMETER. WELDING SHALL BE DONE ONLY BY QUALIFIED WELDERS APPROVED BY THE WELDING INSPECTOR.
   C. INSPECTION AND TESTS: INSPECTION, IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 2212A.3 AND 1704A.3.1 OF ALL THE SHOP AND FIELD WELDING OPERATIONS FOR THE AUTOMATIC END WELDED STUDS SHALL BE MADE BY A QUALIFIED WELDING INSPECTOR (APPROVED BY THE DIVISION OF THE STATE ARCHITECT). THE TYPE AND CAPACITY OF THE WELDING EQUIPMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE CHECKED AND APPROVED BY A WELDING INSPECTOR.
   D. AT THE BEGINNING OF EACH DAY'S WORK, A MINIMUM OF TWO TEST STUD WELDS SHALL BE MADE WITH THE EQUIPMENT TO BE USED TO METAL WHICH IS THE SAME AS THE ACTUAL WORK PIECE. THE TEST STUDS SHALL BE BEND TEST BY STRIKING THEM WITH A SUBJECTED TO A 900 HEAVY HAMMER. AFTER THE ABOVE TEST, THE WELD SECTION SHALL NOT EXHIBIT ANY TEARING OUT OR CRACKING.

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT SHAWN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023	

GENERAL NOTES
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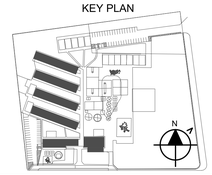
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

GENERAL NOTES

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A0.2
Drawn / Checked	
KT / CD	

8/2/2019 11:24:05 AM
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ARCHITECTURAL DRAWINGS ABBREVIATIONS

#	POUND OR NUMBER
&	AND
*	ITEMS IDENTIFIED AS "NIC" ARE NOT PART OF THIS DSA APPROVAL
@	AT
⊥	PERPENDICULAR
A	
A/C	AIR CONDITIONING
A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABAN	ABANDON
ABC	AGGREGATE BASE COURSE
ABV	ABOVE
AC	ASPHALTIC CONCRETE
ACC	ACCESS(IBLE)
ACP	ALUMINUM COMPOSITE PANEL
ACST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADDM	ADDENDUM
ADH	ADHESIVE
ADJ	ADJUSTABLE
ADJC	ADJACENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ALS	ASSISTED LISTENING SYSTEM
ALT	ALTERNATE
ALUM./AL.	ALUMINUM
ANC	ANCHOR, ANCHORAGE
APLD	APPLIED
APPRX	APPROXIMATELY
ARCH	ARCHITECT(URAL)
ASC	ABOVE SUSPENDED CEILING
ASF	ABOVE STAGE FINISH
ASPH	ASPHALT
ASSY	ASSEMBLY
ASYM	ASYMMETRICAL
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
B	
B	BOLT
BC	BACK OF CURB
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLW	BELOW
BLW CLG	BELOW CEILING
BLW FFLR	BELOW FINISH FLOOR
BM	BENCH MARK
BN	BOUNDARY NAILING
BO	BOTTOM OF
BOT	BOTTOM
BRCG	BRACING
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BRS	BRASS
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOFING
BW	BOTH WAYS
C	
C&G	CURB AND GUTTER
CAB	CABINET
CAD	CADMIUM
CB	CATCH BASIN
CBB	CEMENTITIOUS BACKER BOARD
CBC	CALIFORNIA BUILDING CODE
CEM	CEMENT
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFLG	COUNTERFLASHING
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CG	CORNER GUARD
CHBD	CHALKBOARD
CHFR	CHAMFER
CI	CAST IRON
CIP	CAST IN PLACE
CIR	CIRCLE
CIRC	CIRCULAR, CIRCUMFERENCE
CJ	CONSTRUCTION JOINT
CL	CHAIN LINK OR CENTER LINE
CLG	CEILING
CLJ	CONTROL JOINT
CLKG	CAULKING
CLL	CONTRACT LIMIT LINE
CLOS	CLOSURE
CLR	CLEAR(ANCE)
CLRM	CLASSROOM
CMP	CORRUGATED METAL PANEL
CMPST	COMPOSITION
CMU	CONCRETE MASONARY UNIT
CNCL	CONCEALED
CNR	CORNER
CNTR	COUNTER
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMP	COMPOSITE
COMPT	COMPARTMENT
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS, CONTINUATION
CONTR	CONTRACT(OR)
COORD	COORDINATE
CORR	CORRIDOR
CPR	COPPER
CPRS	COMPRESS(ED), (ION), (IBLE)
CPT	CARPET
CRS	COLD ROLLED STEEL
CS	CAST STONE
CSG	CASING
CSK	COUNTERSUNK
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE FLOOR
CTG	COATING
CTR	CENTER
CUFT	CUBIC FOOT
CUIN	CUBIC INCH
CUST	CUSTODIAN
CUYD	CUBIC YARD
CW	CURTAIN WALL
D	
D	DRAIN
d.	PENNYWEIGHT (NAILS)
DA	DOUBLE ACTING
DBL	DOUBLE
DEG	DEGREES
DEMO	DEMOLISH, DEMOLITION
DEP	DEPRESSED
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DG	DECOMPOSED GRANITE
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DMPF	DAMPPROOFING
DMT	DEMOUNTABLE
DN	DOWN
DR	DOOR
DRB	DRAINBOARD
DRLV	DOOR LOUVER
DS	DOWNSPOUT
DSP	DRY STANDPIPPE
DT	DRAIN TILE
DVTL	DOVETAIL
DW	DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
E	
(E)	EXISTING
E	EAST
EA	EACH
EAR	EXHAUST AIR REGISTER
EB	EXPANSION BOLT
EE	EACH END
EF	EACH FACE
EFS	EXTERIOR FINISH SYSTEM
EHD	ELECTRIC HAND DRYER
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EM	EXPANDED METAL
EMER	EMERGENCY
EN	EDGE NAILING
ENCL	ENCLOSE(URE)
ENGR	ENGINEER
ENTR	ENTRANCE
EP	ELECTRICAL PANELBOARD
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCUTCHEON
ESCL	ESCALATOR
ESMT	EASEMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWS	EYE WASH STATION
EXC	EXCAVATE
EXH	EXHAUST
EXP	EXPOSED
EXPN	EXPANSION
EXS	EXTRA STRONG
EXT	EXTERIOR
F	
(F)	FUTURE
F/F	FACE TO FACE
FA	FIRE ALARM
FAB	FABRIC
FBD	FIBERBOARD
FBRK	FIRE BRICK
FCBRK	FACE BRICK
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FFEL	FINISHED FLOOR ELEVATION
FFL	FINISHED FLOOR LINE
FGL	FIBERGLASS
FHC	FIRE HOUSE CABINET
FHMB	FLAT HEAD MACHINE BOLT
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLATHEAD WOOD SCREW
FIN	FINISH(ED)
FJT	FLUSH JOINT
FLASH	FLASHING
FLDG	FOLDING
FLG	FLOORING
FLR	FLOOR
FLUOR	FLUORESCENT
FN	FIELD NAILING
FOB	FACE OF BLOCK
FOC	FACE OF CONCRETE/CURB
FOF	FACE OF FINISH
FOG	FACE OF GRID
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FPL	FIREPLACE
FPRF	FIREPROOF(ING)
FR	FRAME(D), (ING)
FRG	FIBERGLASS REINFORCED GYPSUM
FRP	FIBERGLASS REINFORCED PLASTIC
FRTW	FIRE RETARDANT TREATED WOOD
FRZ	FREEZER
FS	FIRE SPRINKLER
FS	FAR SIDE
FSTN	FASTEN, FASTENER
FT	FOOT/FEET
FTG	FOOTING
FURG	FURRED, (ING)
FWC	FABRIC WALL COVERING
G	
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GI	GALVANIZED IRON
GL	GLASS
GLULAM	GLUE LAMINATED
GLZ	GLAZING
GLZCMU	GLAZED CONRETE MASONRY UNIT
GND	GROUND
GPC	GYPSUM PLASTER CEILING
GR	GRADE
GRBM	GRADE BEAM
GRLN	GRADE LINE
GSB	GYPSUM SHEATHING BOARD
GSM	GALVANIZED SHEET METAL
GSS	GALVANIZED STEEL SHEET
GST	GLAZED STRUCTURAL TILE
GT	GROUT
GVL	GRAVEL
GYP	GYPSUM
GYPB	BD GYPSUM BOARD
H	
HB	HOSE BIB
HC	HOLLOW CORE
HD	HEAVY DUTY
HDAS	HEADED ANCHOR STUD
HDJT	HEAD JOINT
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HEX	HEXAGONAL
HGR	HANGER
HLDN	HOLD DOWN
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMDF	HOLLOW METAL DOOR AND FRAME
HMF	HOLLOW METAL FRAME
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HWH	HOT WATER HEATER
I	
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE(D), (ING)
INFO	INFORMATION
INSTL	INSTALL
INSUL	INSULATE(D), (ION)
INT	INTERIOR
INV	INVERT
IPS	IRON PIPE SIZE
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY
J	
JAN	JANITOR
JST	JOIST
JT	JOINT
K	
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
L	
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE
LAV	LAVATORY
LB(S)	POUND(S)
LBL	LABEL
LBR	LUMBER
LDR	LEADER
LF	LINEAL FOOT
LG	LENGTH, LONG
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LKNT	LOCKNUT
LKR	LOCKER
LKWASH	LOCKWASHER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMST	LIMSTONE
LNSCP	LANDSCAPE(D)
LNTL	LINTEL
LP	LIGHTPROOF
LPT	LOW POINT
LT	LIGHT
LTWT	LIGHTWEIGHT
LV	LOUVER VENT
LVL	LEVEL(ER)
LWC	LIGHTWEIGHT CONCRETE
LWIC	LIGHTWEIGHT INSULATING CONCRETE
M	
MAINT	MAINTAIN(ANCE)
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MEMBER
MC	MEDICINE CABINET
MCB	METAL CORNER BEAD
MDO	MEDIUM DENSITY OVERLAID
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFD	METAL FLOOR DECKING
MFR	MANUFACTUR(ER)
MH	MANHOLE
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
ML	METAL LATH
MLDG	MOLDING
MLWK	MILLWORK
MO	MASONRY OPENING
MOD	MODULE(AR)
MR	MOISTURE RESISTANT
MRB	MARBLE
MRD	METAL ROOF DECKING
MS	MACHINE SCREW
MTD	MOUNTED
MTL	METAL
MTR	MORTAR
MULL	MULLION
N	
(N)	NEW
N	NORTH
NAT	NATURAL
NCOMBL	NONCOMBUSTIBLE
NE	NOT EXCEEDING
NF	NEAR FACE
NIC	NOT IN CONTRACT
NLB	NON-LOAD BEARING
NM	NONMETALLIC
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NRCA	NATIONAL ROOFING CONTRACTOR'S ASSOCIATION
NS	NEAR SIDE
NTS	NOT TO SCALE
O	
O/	OVER
O/O	OUT TO OUT
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OCC	OCCUPANTS OR OCCUPANCY
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OFS	OUTSIDE FACE OF STUD
OHMS	OVALHEAD MACHINE SCREW
OHWS	OVALHEAD WOOD SCREW
OI	OWNER INSTALLED
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPQ	OPAQUE
OPR	OPERABLE
ORD	OVERFLOW ROOF DRAIN
OSB	ORIENTED STRAND BOARD
OVFL	OVERFLOW
OVHD	OVERHEAD
P	
P	PAINT
PA	PUBLICADDRESS
PAR	PARALLEL
PAT	PATTERN
PB	PANIC BAR
PBD	PARTICLE BOARD
PC	PORTLAND CEMENT
PCC	PRECAST CONCRETE
PCP	PORTLAND CEMENT PLASTER
PED	PEDESTAL
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PGBD	PEGBOARD
PH	PHASE
PHS	PHILLIPS HEAD SCREW
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PM	PRESSED METAL
PMF	PRESSED METAL FRAME
PNEU	PNEUMATIC
PNL	PANEL
PNT	PAINT(ED)
POL	POLISHED
POLY	POLYETHYLENE
PORC	PORCELAIN
PORT	PORTABLE
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREFMD	PREFORMED
PRKG	PARKING
PRML	PREMOLDED
PROJ	PROJECT
PROP	PROPERTY
PSCONC	PRESTRESSED CONCRETE
PT	POINT
PTD	PAPER TOWEL DISPENSER
PTDF	PRESSURE TREATED DOUGLAS FIR
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
PVG	PAVE(D), (ING)
PVMT	PAVEMENT
Q	
QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTF	QUARRY TILE FLOOR
QTR	QUARTER
QTY	QUANTITY
R	
R	RISER
RA	RETURN AIR
RAB	RABBET
RAD	RADIUS
RB	RESILIENT BASE
RBR	RUBBER
RCP	REINFORCED CONCRETE PIPE
RCVR	RECEIVER
RD	ROOF DRAIN
RDGINS	RIGID INSULATION
RDWY	ROADWAY
REBAR	REINFORCING STEEL BARS
REC	RECESSED
RECT	RECTANGULAR
RECYL	RECYCLING
REF	REFERENCE
REFL	REFLECT(ED), (IVE), (OR)
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCED
REM	REMOVE(ABLE)
REP	REPAIR
REPL	REPLACE
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
REV	REVISION(S), REVISED
RF	RESILIENT FLOORING
RFG	ROOFING
RFH	ROOF HATCH
RH	RIGHT HAND
RHMS	ROUND HEAD MACHINE SCREW
RHR	RIGHT HAND REVERSE
RHWS	ROUND HEAD WOOD SCREW
RL	ROOF LEADER
RLG	RAILING
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RR	RESTROOM
RS	ROUGH SAWN
RTF	RUBBER TILE FLOORING
RTU	ROOF TOP UNIT
RV	ROOF VENT
RVL	REVEAL
RVS	REVERSE (SIDE)
RVT	RIVET(ED)
RWD	REDWOOD
RWL	RAIN WATER LEADER
S	
S	SOUTH
S2S	SURFACED TWO SIDES
S4S	SURFACED FOUR SIDES
SA	SUPPLY AIR
SALV	SALVAGE
SAM	SELF-ADHERED MEMBRANE
SAT	SUSPENDED ACOUSTICAL TILE
SB	SPLASH BLOCK
SBSTR	SUBSTRATE
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SCP	SCUPPER
SCRN	SCREEN
SD	STORM DRAIN
SDBL	SANDBLAST
SEC	SECONDS
SECT	SECTION
SEP	SEPERATE OR SEPERATION
SF	SQUARE FEET, STOREFRONT
SGL	SINGLE
SHR	SHOWER
SHT.	SHEET(ING)
SHTG	SHEATHING
SHV	SHELVES(ING)
SIM	SIMILAR
SK	SINK
SKLT	SKYLIGHT
SLD	SEALED
SLDG	SLIDE(ING)
SLDR	SOLDER
SLNT	SEALANT
SLV	SLEEVE
SM	SHEET METAL
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
SMLS	SEAMLESS
SMS	SHEET METAL SCREW
SND	SANITARY NAPKIN DISPENSER
SNDINS	SOUND INSULATION
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SNT	SEALANT
SP	SPACES
SPC	SUSPENDED PLASTER CEILING
SPD	SOAP DISPENSER
SPEC	SPECIFICATION
SPEC	SPECIFICATION(S)
SPRT	SUPPORT
SQ	SQUARE
SQ	SQUARE
SSK	SERVICE SINK
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STG	SEATING
STF	STIFFENER
STIR	STIRRUP
STL	STEEL
STOR	STORAGE
STR	STRAIGHT
STRUC	STRUCTURAL
STU	STRUCT
SUSP	SUSPENDED
SV	SHEET VINYL
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	
T	TEMPERED, TOILET, TREAD
T24	TITLE 24
T&B	TOP AND BOTTOM
T&G	TONGUE & GROOVE
TB	THRU BOLT
TBE	THREADED BOTH ENDS
TD	TOWEL DISPENSER
TDR	TOWEL DISPENSER/RECEPTACLE
TEL	TELEPHONE
TEMP	TEMPORARY
TER	TERRAZZO
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
THD	THREAD(ED)
THERM	THERMAL
THK	THICK
THRES	THRESHOLD
THRU	THROUGH
TKBD	TACKBOARD
TMPD	TEMPERED
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CURB OR TOP OF CONCRETE
TOF	TOP OF FOOTING
TOFF	TOP OF FINISH FLOOR
TOJ	TOP OF JOIST
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOPV	TOP OF PAVEMENT
TOS	TOP OF SHEATHING
TOSL	TOP OF SLAB
TOST	TOP OF STEEL
TOW	TOP OF WALL OR TOP OF WALK
TPD	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
TRANS	TRANSITION
TS	TUBE STEEL
TV	TELEVISION
TWLB	TOWEL BAR
TYP	TYPICAL
U	
UC	UNDERCUT
UGND	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UR	URINAL
URM	UNREINFORCED MASONRY
UTIL	UTILITY
V	
VAR	VARIES
VB	VINYL BASE
VCT	VINYL COMPOSITION TITLE
VER	VERIFY
VERT	VERTICAL
VEST	VESTIBULE
VF	VINYL FABRIC
VFAT	VINYL FACED ACOUSTIC TILE
VIF	VERIFY IN FIELD
VJ	V-JOINT(ED)
VNR	VENEER
VR	VAPOR RETARDER
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	
W	WEST
W.H.	WATER HEATER
W.O.	WHERE OCCURS
W/	WITH
W/O	WITHOUT
WW	WALL TO WALL
WBL	WOOD BLOCKING
WC	WATER CLOSET
WD	WOOD
WDP	WOOD PANELING
WDW	WINDOW
WF	WIDE FLANGE
WFS	WOOD FURRING STRIP
WGL	WIRED GLASS
WH	WALL HUNG
WI	WROUGHT IRON
WID	WIDTH, WIDE
WLD	WELD(ED)
WM	WIRE MESH
WP	WATERPROOF(ING)
WPT	WORKING POINT
WR	WIRE ROPE
WS	WOOD SCREW
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
X	
XBRACE	CROSS BRACE
XFMR	TRANSFORMER
XSECT	CROSS SECTION
Y	
YCO	YARD CLEANOUT
YD	YARD

SYMBOLS LEGEND

N = PLAN NORTH ARROW
ADDITIONAL ARROW INDICATES TRUE NORTH

X = BUILDING SECTION NUMBER
AX.X = SHEET NUMBER

X = WALL SECTION NUMBER
AX.X = SHEET NUMBER

X = EXTERIOR ELEVATION NUMBER
AX.X = SHEET NUMBER

X = INTERIOR ELEVATION NUMBER
AX.X = SHEET NUMBER
N,S,E,W = INDICATES CARDINAL DIRECTION

GRID LINE, FACE OF STRUCTURE

GRID LINE, CENTER OF STRUCTURE

ELEVATION OR DATUM POINT

WORK POINT

REFERENCE DETAIL
X = DETAIL DRAWING NUMBER
AX.X = SHEET NUMBER

MATCH LINE AND AREA DESIGNATOR
SHADED PORTION IS THE SIDE CONSIDERED

ROOM NAME
ROOM NAME
AREA IDENTIFICATION:
A = BUILDING OR AREA DESIGNATION
1 = FLOOR NUMBER
19 = ROOM NUMBER

WINDOW, STOREFRONT, OR CURTAINWALL
SEE WINDOW SCHEDULE

DOOR NUMBER, SEE DOOR SCHEDULE

KEYNOTE
08 = SPECIFICATION DIVISIONAL PREFIX
2 = SPECIFICATION SUBSECTION PREFIX
11 = NOTE NUMBER

REVISION

SIGNAGE TAG

CASEWORK TAG
102 = ARCHITECTURAL WOODWORK
STANDARD (AWS) NUMBER
W x H x L = WIDTH, HEIGHT, AND LENGTH
~ = COMMENTS

PATH OF EGRESS
41 = OCCUPANT LOAD
STARTING POINT OF PATH OF TRAVEL TO EXIT
MARKED BY DOT AT THE BEGINNING OF EGRESS LINE

PANIC HARDWARE TAG

MATERIALS LEGEND

EARTH
POROUS FILL (STONE, GRAVEL, ETC.)
CONCRETE
GROUT
STEEL
FINISHED WOOD
TERRAZZO
WOOD BLOCKING
WOOD FRAMING
BATT INSULATION
RIGID INSULATION
GYPSUM BOARD
PLYWOOD
METAL LATH AND PLASTER

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRIAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023	

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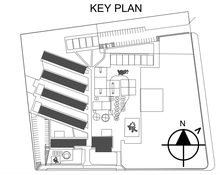
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

ARCHITECTURAL SYMBOLS AND ABBREVIATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A0.3
Drawn KT	Checked CD

8/2/2019 11:24:06 AM
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CODE ANALYSIS

BUILDING NAME	KINDERGARTEN/ADMIN.	MULTI-PURPOSE	BUILDING 'A' CLASSROOMS	BUILDING 'B' CLASSROOMS	BUILDING 'C' CLASSROOMS	BUILDING 'D' CLASSROOMS	PORTABLE P1	PORTABLE P2	PORTABLE P3	PORTABLES P4 - P8	PORTABLE P9 - P15
OCCUPANCY (CBC SECTION 302)	B/E	A-3	E	E	E	E	E	E	E	E	E
TYPE OF CONSRUCTION	V-B	V-B	V-B	V-B	V-B	V-B	V-B	V-B	V-B	V-B	V-B
SPRINKLERS	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
ALTERNATIVE PROTECTION (CBC 903.1.1)	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
SEPARATED? (CBC TABLE 508.4)	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
EXISTING BUILDING STORIES / BUILDING HEIGHT	1 / 15'-0"	1 / 20'-0"	1 / 16'-0"	1 / 16'-0"	1 / 16'-0"	1 / 16'-0"	1 / 11'-0"	1 / 11'-0"	1 / 11'-0"	1 / 11'-0"	1 / 11'-0"
TOTAL BUILDING AREA	1,200 SF (B) 2,880 SF (E)	4,294 SF	5,707 SF	5,348 SF	5,348 SF	5,348 SF	960SF	960SF	960SF	960 SF (EACH PORTABLE)	960 SF (EACH PORTABLE)

SAFE DISPERSAL AREA

- TOTAL 'EDUCATIONAL' OCCUPIED AREA = 40,317 SF
  40,317 SF @ 20 SF/OCC. = 2,016 OCCUPANTS
- TOTAL 'BUSINESS' OCCUPIED AREA = 1,200 SF
  1,200 SF @ 150 SF/OCC. = 8 OCCUPANTS
- TOTAL 'ASSEMBLY (UNCONCENTRATED)' OCCUPIED AREA = 4,598 SF
  4,598 SF @ 15 SF/OCC. 307 OCCUPANTS

TOTAL OCCUPANTS (PER CBC TABLE 1004.5) = **2,331**

MINIMUM DISPERSAL AREA REQUIRED PER CBC 1028.5.1:
TOTAL OCCUPANTS X 5 SF/OCC. = 2,331 OCC. X SF/OCC. = 11,655SF

DISPERSAL AREA PROVIDED = 12,000 SF > 11,655 SF = OK

ACCESSIBLE PARKING

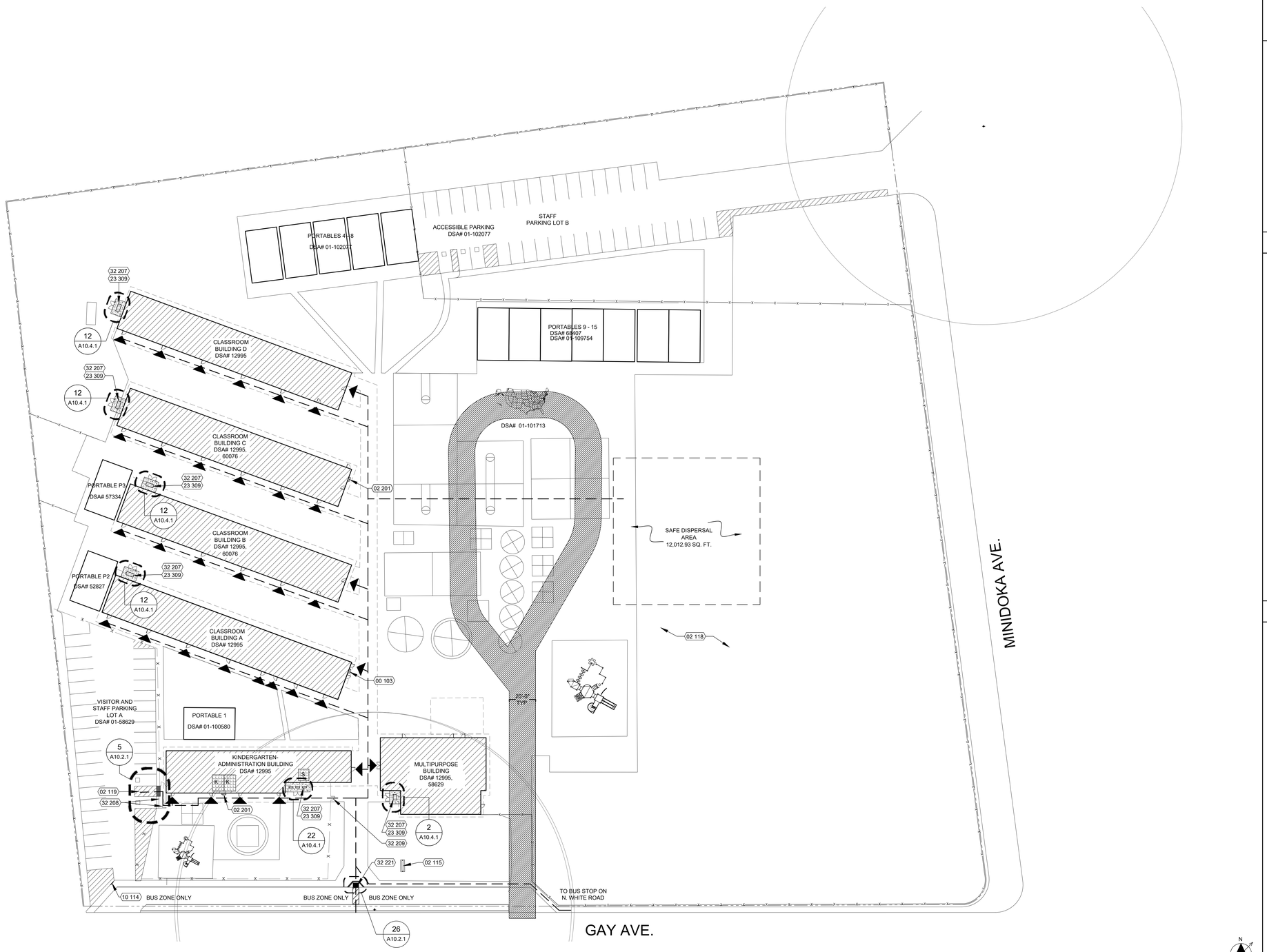
BASED ON CBC TABLE 11B-208.2 "PARKING SPACES"

PARKING LOT	STANDARD STALLS	ACCESSIBLE STALLS REQUIRED	ACCESSIBLE STALLS PROVIDED
A	32	2	2*
B	36	2	3*
TOTAL	68	4	5

*INCLUDING VAN ACCESSIBLE STALL

ACC. PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING ¼" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING ¼" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL ABOVE 27" AND LESS THAN 80" ABOVE THE FLOOR. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.



KEY NOTES

NUMBER	NOTE
00 103	REMOVE AND REPLACE (E) DRINKING FOUNTAIN WITH A NEW ACCESSIBLE WALL MOUNTED DRINKING FOUNTAIN WITH GUARDRAILS. SEE PLANS ON SHEET A2.3 AND DETAIL 13/A10.2.1.
02 115	(E) CAMPUS ADDRESS SIGNAGE PER CBC 502.1, SEE DETAIL 12/A10.10.1
02 118	AREA FOR STORAGE UNITS. CONTRACTOR SHALL MOVE ALL FURNITURE AND EQUIPMENT FROM ALL ROOMS INTO STORAGE UNITS PRIOR TO CONSTRUCTION WORK AND MOVE BACK AFTER COMPLETION OF WORK. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND REMOVAL OF STORAGE UNITS ONSITE. COORDINATE LOCATION IN FIELD WITH OWNER.
02 119	(E) ACCESSIBLE PARKING, RE-STRIPE AND PROVIDE SIGNAGE PER DETAIL 5/A10.2.1
02 201	(E) NON-ACCESSIBLE EXTERIOR DRINKING FOUNTAIN TO REMAIN.
10 114	(N) TOW AWAY SIGNAGE PER DETAIL 27/A10.2.1
23 309	MECHANICAL UNIT O/ CONCRETE PADS. SEE MECHANICAL DRAWINGS.
32 207	NEW WIRE CAGES WITH TOP COVERS AROUND HVAC EQUIPMENT. SEE DETAILS 2, 12, & 22/A10.4.1
32 208	(N) GATE PER DETAIL 12/A10.2.1 AND (N) FENCE PER DETAIL 25/A10.2.1
32 209	(E) GATE MODIFIED TO HAVE (N) HARDWARE PER DETAIL 11/A10.2.1
32 221	INSTALL (N) TRUNCATED DOMES ON (E) CURB CUT RAMP. 3'-0" MIN. DEPTH FROM BOTTOM OF RAMP. SEE DETAIL 26/A10.2.1

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT

(BASED ON DSA PROCEDURE PR 15-01)

THE P.O.T IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECTS BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL AND ELECTRICAL WORK
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE ON-SITE AND / OR OFF-SITE STORAGE AND PROPER PROTECTION AGAINST LOSS, DAMAGE OR DETERIORATION OF NEW MATERIALS & EQUIPMENT ACQUIRED PRIOR TO THE START OF CONSTRUCTION. ON-SITE DELIVERY AND INSTALLATION OF PORTABLE CONSTRUCTION STORAGE CONTAINERS MUST BE COORDINATED IN FIELD WITH THE CONSTRUCTION MANAGER
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR MOVING, STORAGE, AND PROTECTION OF EXISTING FURNITURE AND EQUIPMENT WITHIN THE AREA OF CONSTRUCTION. GC WILL DOCUMENT EXISTING CONDITIONS AND COORDINATE WITH THE CONSTRUCTION MANAGER PRIOR TO START OF CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR 6'-0" HIGH TEMPORARY CONSTRUCTION BARRIER WITH VISION SCREEN AT STAGING, STORAGE AND CONSTRUCTION AREA WITH SIGNAGE EVERY 20'-0" TO WARN STUDENTS OF CONSTRUCTION AREA.
5. CONTRACTOR TO BRING IN OFFICE TRAILER TO CONSTRUCTION AREA.
6. CONTRACTOR SHALL ACCESS THE SITE FROM GAY AVE. ANY DAMAGE TO FIRE LANE WILL BE AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR TO REPAIR BACK TO EXISTING CONDITIONS ALL LAYDOWN AREAS AT THE END OF CONSTRUCTION. THIS INCLUDES LANDSCAPE AREAS AND ANY BROKEN SPRINKLERS, VALVE BOXES, CONCRETE, ASPHALT, ETC.
8. CONTRACTOR SHALL REPLACE, RECONSTRUCT AND REPAIR ALL EXISTING WORK THAT IS IMPACTED, DAMAGED, OR DESTROYED AS A RESULT OF ANY CONTRACTOR WORK INCLUDING, BUT NOT LIMITED TO, HARDSCAPING, SIDEWALKS, IRRIGATION SYSTEMS, LANDSCAPING, LAWNS, STRUCTURES, AND UTILITIES - ALL TO THE SATISFACTION OF THE DISTRICT.
9. WHERE ASPHALT OR CONCRETE IS BEING REPATCHED, CONTRACTOR SHALL PROVIDE EVEN AND STRAIGHT LINE CUTS WITH 2-FOOT STRAIGHT SLURRY SEAL SURFACE PATCH ON BOTH SIDES OF CUT
10. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON SITE TO AVOID EXISTING DUCTS, PIPING OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
11. GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS WITH PROPER LEVER HARDWARE AND KICK PLATES.

LEGEND

- (E) BUILDING WITHIN SCOPE OF WORK
- (E) BUILDING, N.I.C.
- (E) 20'-0" WIDE MINIMUM CLEAR FIRE ACCESS LANE
- (N) CONCRETE
- (E) ACCESSIBLE RESTROOMS WITHIN SCOPE
  - **S** - (E) ALL GENDER STAFF RESTROOM
  - **K** - (E) ALL GENDER KINDERGARTEN RESTROOM
- (E) FENCE & GATES TO REMAIN
- (N) FENCE & GATES
- PROPERTY LINE
- ACCESSIBLE PATH OF TRAVEL, SEE DEFINITION ON THIS SHEET
- LOCATION OF ACCESSIBLE EXTERIOR EXIT DOORS, ENTRANCES, AND EGRESS
- FIRE HYDRANT AND 150' RADIUS CIRCLE

SITE PLAN OVERALL 1/32" = 1'-0" 10

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 04/24/2023	

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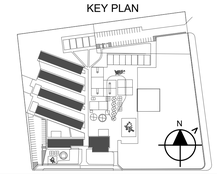
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



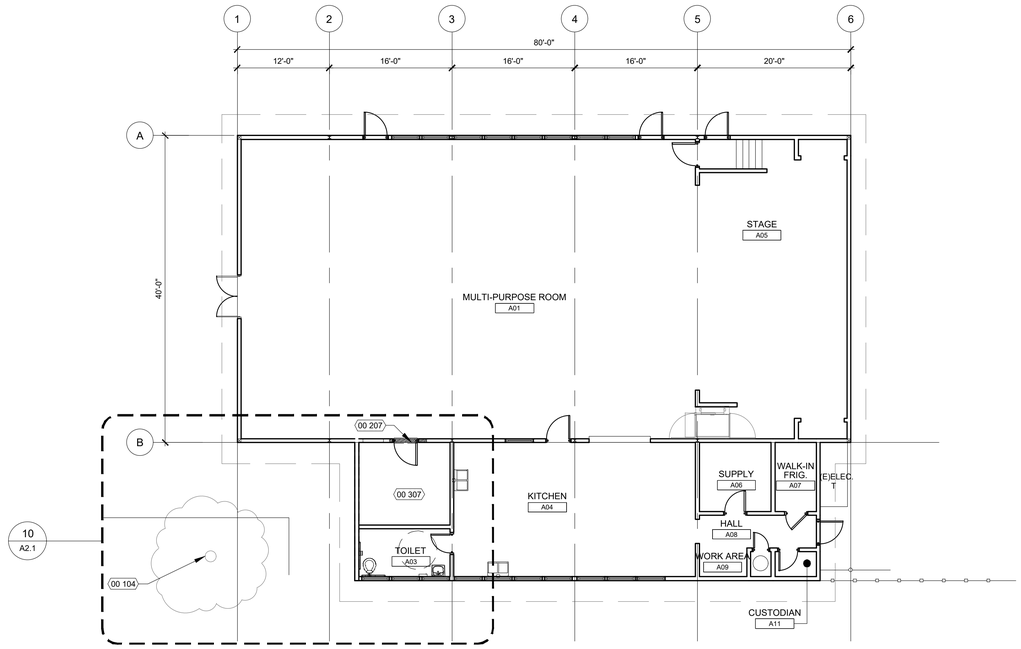
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

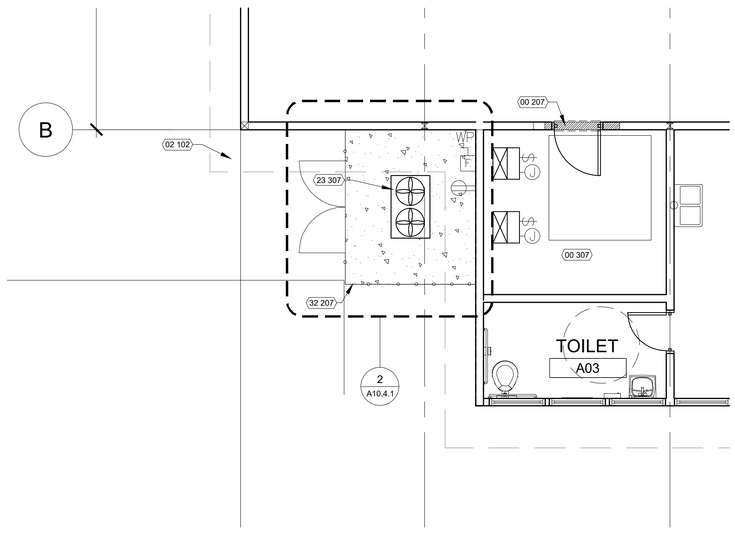
RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
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SITE PLAN OVERALL

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A1.1
Drawn KT / Checked CD	



DEMO FLOOR PLAN - MULTI-PURPOSE & KITCHEN | 1/8" = 1'-0" | 5



NEW ENLARGED FLOOR PLAN - MULTI-PURPOSE & KITCHEN | 1/4" = 1'-0" | 10

KEY NOTES

NUMBER	NOTE
00 104	CUT AND REMOVE TREE TO ALLOW FOR NEW HVAC EQUIPMENT AND FENCING.
00 207	REMOVE EXISTING CLERESTORY WINDOWS ABOVE ROOF FOR HVAC DUCT PENETRATION. INFILL WINDOW OPENING PER DETAIL 10/A10.4.1
00 307	REMOVE AND REPLACE (E) MECHANICAL SYSTEMS. REFER TO MECHANICAL DWGS. FOR THE EXTENT OF DEMOLITION WORK.
02 102	(E) CONCRETE WALKWAY
23 307	NEW CONDENSING UNIT OVER NEW CONCRETE PAD. SEE MECHANICAL/PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK.
32 207	NEW WIRE CAGES WITH TOP COVERS AROUND HVAC EQUIPMENT. SEE DETAIL 2/A10.4.1.

GENERAL NOTES

GENERAL

1. GENERAL CONTRACTOR SHALL SURVEY AREA FOR UNDERGROUND UTILITY LOCATIONS PRIOR TO DEMOLITION AND NEW WORK ON SITE.
2. ROOM NAMES AND NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION FLOOR PLANS AND NEW FLOOR PLANS.
3. REFER TO MECHANICAL/PLUMBING AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL/PLUMBING AND ELECTRICAL DEMOLITION WORK AND NEW CONSTRUCTION.
4. PAINT ALL EXPOSED CONDUITS, FITTINGS, AND CONDUIT COVERS ASSOCIATED WITH THE NEW WORK TO MATCH EXISTING ADJACENT SURFACE AT BOTH EXTERIOR AND INTERIOR LOCATIONS.
5. REMOVE ALL EXISTING ITEMS TO ALLOW THE NEW WORK, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, ASPHALT PAVING, FENCING.
6. COORDINATE EXACT LOCATION OF NEW HVAC UNITS IN FIELD WITH THE OWNER AND ARCHITECT PRIOR TO INSTALLATION. PATCH AND REPAIR ADJACENT FLOOR AND WALL SURFACE AREAS ASSOCIATED WITH THE INSTALLATION OF THESE UNITS.
7. FOR HVAC UNIT REFRIGERANT LINES THROUGH WALL, SEE MECHANICAL DRAWINGS AND DETAILS 1 & 7/A9.1 FOR CONDUIT SPACING. SPACE PENETRATIONS TO CLEAR STUDS. COORDINATE LAYOUT IN FIELD. PATCH, REPAIR, AND PAINT EXTERIOR WALL SOFFIT, AND INTERIOR CEILING AFTER INSTALLATION TO MATCH EXISTING ADJACENT FINISHES.
8. REMOVE AND REINSTALL PROJECTORS PER DETAIL 16/A9.3.
9. CONTRACTOR TO PATCH, REPAIR AND PAINT ALL DAMAGED SURFACES AND/OR SURFACES TO BE EXPOSED TO VIEW AS A RESULT OF DEMOLITION WORK. PROTECT FLOOR SURFACES DURING CONSTRUCTION, REPLACE IF DAMAGED AS RESULT OF DEMOLITION/NEW WORK.
10. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
11. CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION OF (E) CONCRETE PADS AFTER DEMOLITION OF MECHANICAL/PLUMBING EQUIPMENT AND TO REPAIR/PATCH & INFILL CONCRETE SLAB AS NEEDED.
12. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF PARTIAL ROOF FOR NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECH. PLANS FOR LOCATIONS & WITH GARLAND ROOFING FOR PATCHING OF (E) ROOFING.
13. CONTRACTOR TO REFERENCE DEMOLITION & ABATEMENT REPORT PRIOR TO DEMOLITION WORK.
14. PROVIDE WALL-MOUNTED TACTILE EXIT SIGNS TYPICAL AT ALL EXIT DOORS SEE DETAIL 1/A0.4.
15. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND RE-INSTALLATION OF ALL WINDOW SHADES AND TRACK SYSTEM, INCLUDING ADJUSTING/CUTTING OF SHADES TO FIT FOR RE-INSTALLATION AND TO ALLOW THE INSTALLATION OF NEW CEILING SYSTEMS.

DEMOLITION

1. ALL DEMOLITION WORK SHALL COMPLY WITH CFC CHAPTER 14 OF THE FIRE CODE AND CBC CHAPTER 33 OF THE BUILDING CODE FOR SAFETY DURING CONSTRUCTION AND DEMOLITION AND CALIFORNIA EXISTING BUILDING CODE (PART 10) FOR EXISTING STRUCTURES.
2. ALL DIMENSIONS SHOWN ON THIS SHEET ARE EXISTING AND APPROXIMATE. VERIFY IN FIELD.
3. VERIFICATION OF EXISTING CONDITIONS:
   A. IN THE REMODELING OF AN EXISTING BUILDING CERTAIN ASSUMPTIONS HAVE BEEN MADE REGARDING EXISTING CONDITIONS. SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL SUMS OF MONEY, OR DESTROYING OTHERWISE SERVICEABLE PORTIONS OF THE BUILDING. NOTIFY THE ARCHITECT IMMEDIATELY FOR GUIDANCE ON HOW TO PROCEED WHEN CONDITIONS ARE DISCOVERED DURING CONSTRUCTION WHICH DIFFER FROM THOSE INDICATED ON THE DRAWINGS.
4. SEE HAZARDOUS MATERIALS REPORT IN APPENDIX FOR ABATEMENT REQUIREMENTS DURING DEMOLITION.
5. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

LEGEND

- LINE OF ROOF, SKYLIGHT, OR SOFFIT OVERHEAD - SHOWN DASHED
- (E) EXTERIOR STUD WALL
- (N) CONCRETE PAD PER STRUCTURAL DWGS

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STUDIO W ARCHITECTS

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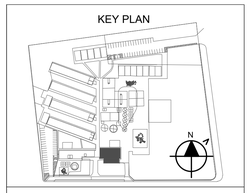
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

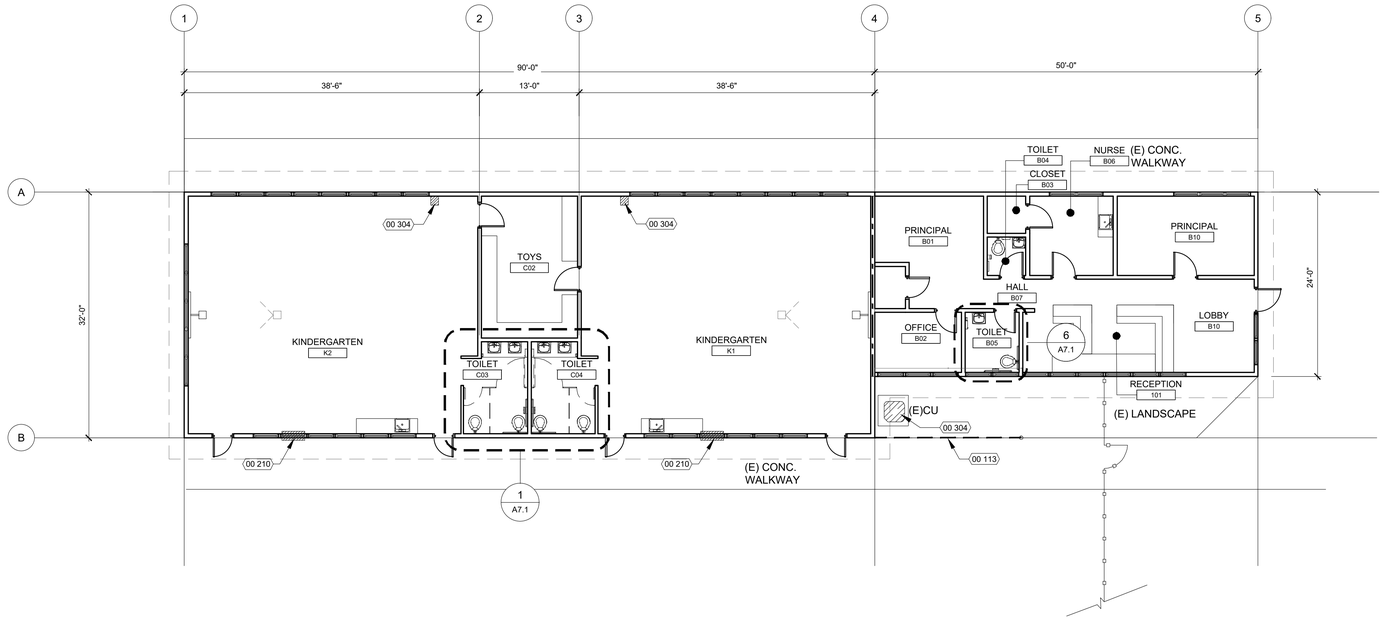
CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

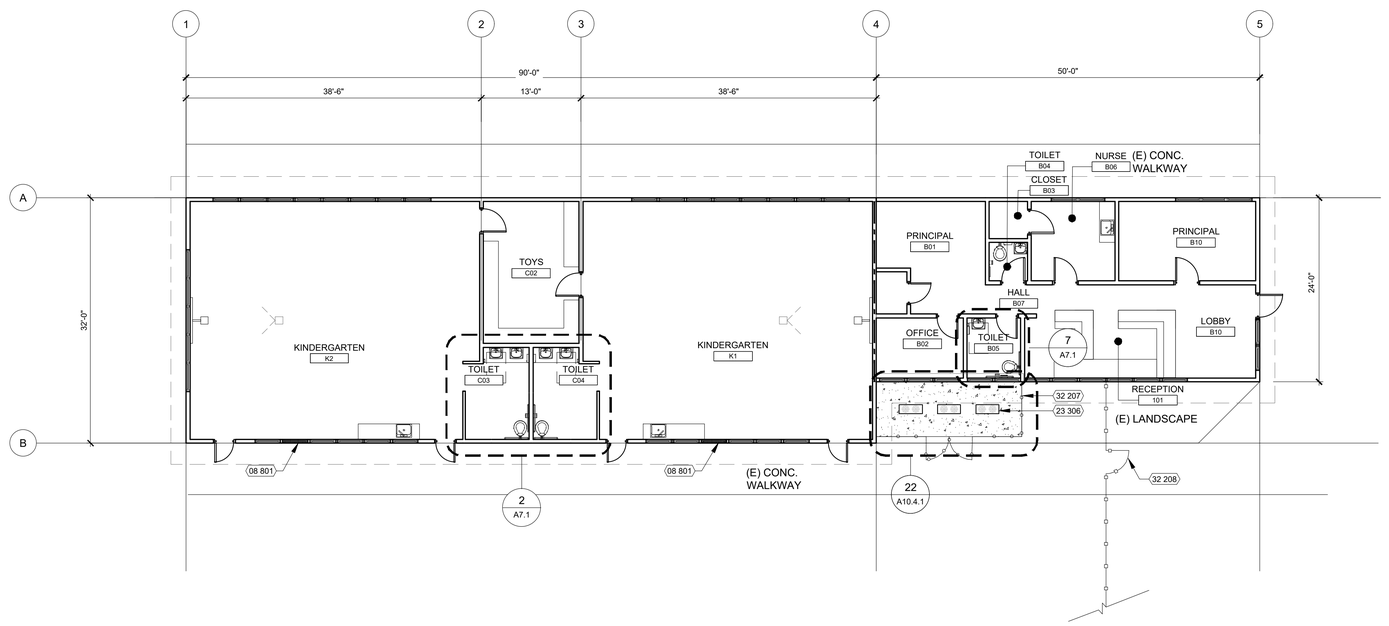
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DEMO & NEW FLOOR PLAN - MULTI-PURPOSE & KITCHEN

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A2.1
Drawn: KT	Checked: CD



DEMO FLOOR PLAN - ADMIN. & KINDER BUILDING 1/8" = 1'-0" 5



NEW FLOOR PLAN - ADMIN. & KINDER BUILDING 1/8" = 1'-0" 10

KEY NOTES

NUMBER	NOTE
00 113	REMOVE (E) CHAIN LINK FENCE AND GATE SYSTEM TO ALLOW THE INSTALLATION OF NEW HVAC SYSTEMS. REMOVE AND CLEAR AREA OF TREES AND SHRUBS.
00 210	REMOVE EXISTING WALL/WINDOW MOUNTED AC UNIT SYSTEM, PANEL AND SUPPORT BRACKETS, DISCONNECT/REMOVE ASSOCIATED PIPING AND ELECTRICAL.
00 304	REMOVE AND REPLACE (E) MECHANICAL/PLUMBING SYSTEMS & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF WORK.
08 801	NEW GLAZING AND/OR ALUMINUM PANEL WITHIN EXISTING FRAME TO MATCH ADJACENT.
23 306	NEW HEAT PUMP UNIT OVER NEW CONCRETE PAD, SEE MECHANICAL/PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK.
32 207	NEW WIRE CAGES WITH TOP COVERS AROUND HVAC EQUIPMENT. SEE DETAIL 22/A10.4.1.
32 208	(E) 6'-0" GATE MODIFIED TO HAVE (N) HARDWARE PER DETAILS 6/A10.2.1.

GENERAL NOTES

GENERAL
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4. PAINT ALL EXPOSED CONDUITS, FITTINGS, AND CONDUIT COVERS ASSOCIATED WITH THE NEW WORK TO MATCH EXISTING ADJACENT SURFACE AT BOTH EXTERIOR AND INTERIOR LOCATIONS.
5. REMOVE ALL EXISTING ITEMS TO ALLOW THE NEW WORK, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, ASPHALT PAVING, FENCING.
6. COORDINATE EXACT LOCATION OF NEW HVAC UNITS IN FIELD WITH THE OWNER AND ARCHITECT PRIOR TO INSTALLATION. PATCH AND REPAIR ADJACENT FLOOR AND WALL SURFACE AREAS ASSOCIATED WITH THE INSTALLATION OF THESE UNITS.
7. FOR HVAC UNIT REFRIGERANT LINES THROUGH WALL, SEE MECHANICAL DRAWINGS AND DETAILS 1 & 7/A9.1 FOR CONDUIT SPACING, SPACE PENETRATIONS TO CLEAR STUDS. COORDINATE LAYOUT IN FIELD. PATCH, REPAIR, AND PAINT EXTERIOR WALL SOFFIT, AND INTERIOR CEILING AFTER INSTALLATION TO MATCH EXISTING ADJACENT FINISHES.
8. REMOVE AND REINSTALL PROJECTORS PER DETAIL 16/A9.3.
9. CONTRACTOR TO PATCH, REPAIR AND PAINT ALL DAMAGED SURFACES AND/OR SURFACES TO BE EXPOSED TO VIEW AS A RESULT OF DEMOLITION WORK. PROTECT FLOOR SURFACES DURING CONSTRUCTION, REPLACE IF DAMAGED AS RESULT OF DEMOLITION/NEW WORK.
10. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
11. CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION OF (E) CONCRETE PADS AFTER DEMOLITION OF MECHANICAL/PLUMBING EQUIPMENT AND TO REPAIR/PATCH & INFILL CONCRETE SLAB AS NEEDED.
12. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF PARTIAL ROOF FOR NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECH. PLANS FOR LOCATIONS & WITH GARLAND ROOFING FOR PATCHING OF (E) ROOFING..
13. CONTRACTOR TO REFERENCE DEMOLITION & ABATEMENT REPORT PRIOR TO DEMOLITION WORK.
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4. SEE HAZARDOUS MATERIALS REPORT IN APPENDIX FOR ABATEMENT REQUIREMENTS DURING DEMOLITION.
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LEGEND

- LINE OF ROOF, SKYLIGHT, OR SOFFIT OVERHEAD - SHOWN DASHED
- (E) EXTERIOR STUD WALL
- (N) CONCRETE PAD

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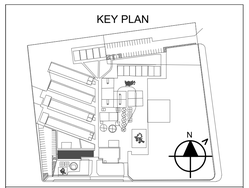
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
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● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

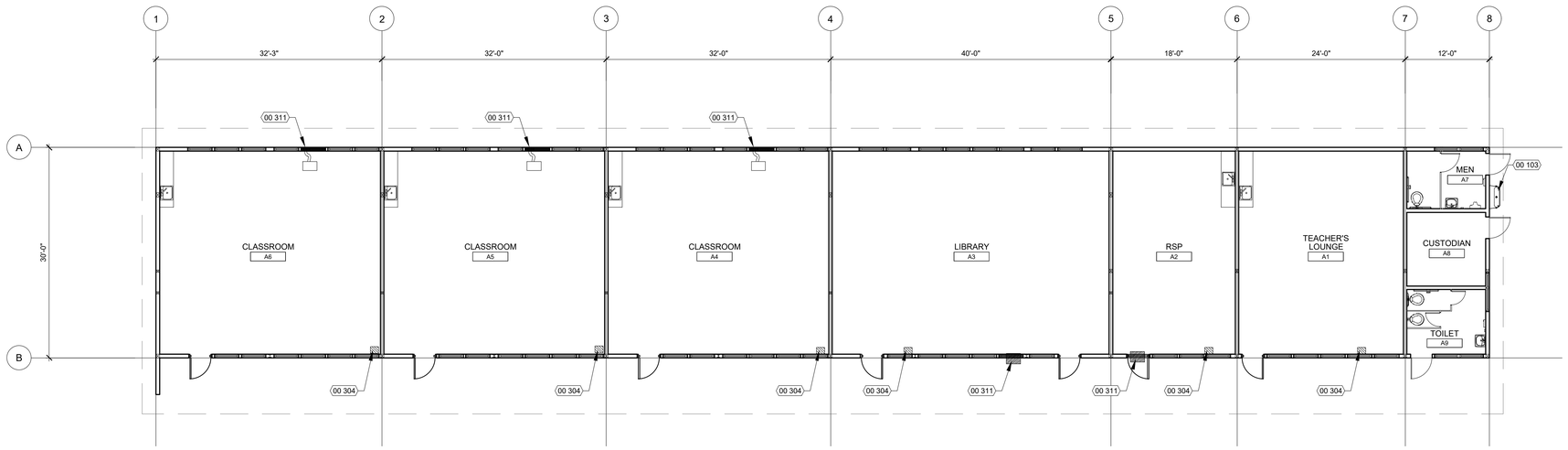
CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

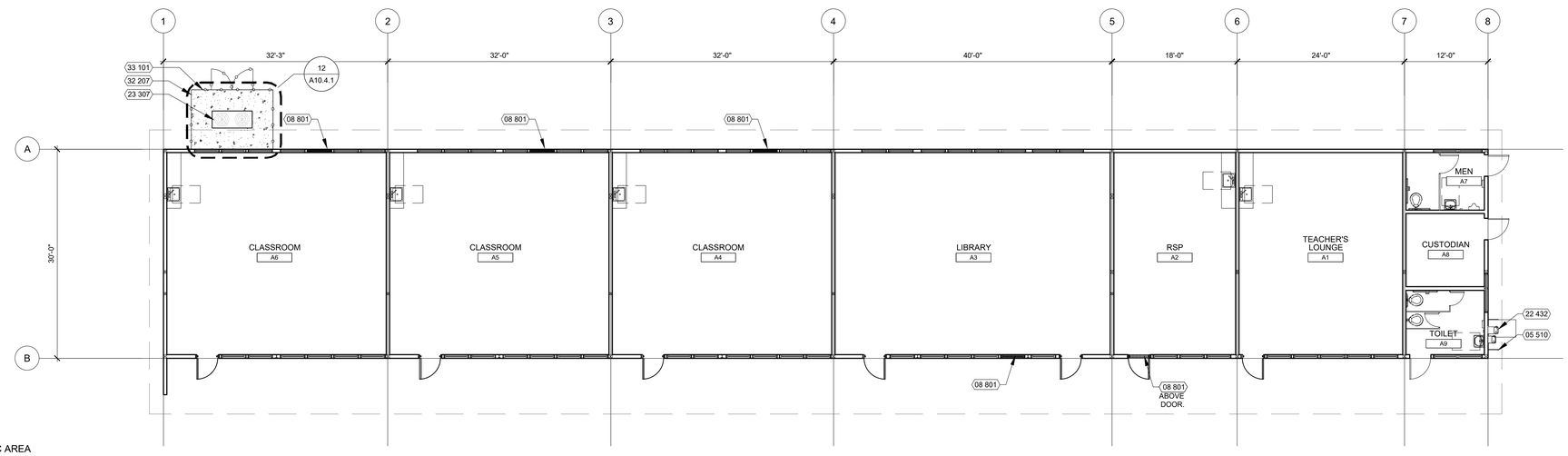
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SAN JOSE, CA 95127

DEMO & NEW FLOOR PLAN - KINDER-ADMIN BUILDING

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A2.2
Drawn / Checked	
KT / CD	



DEMO FLOOR PLAN - CLASSROOM - BUILDING A | 1/8" = 1'-0" | 5



(E) AC AREA

NEW FLOOR PLAN - CLASSROOM - BUILDING A | 1/8" = 1'-0" | 10

KEY NOTES

NUMBER	NOTE
00 103	REMOVE (E) DRINKING FOUNTAIN AND PATCH AND PAINT WALL TO MATCH ADJACENT.
00 304	REMOVE AND REPLACE (E) MECHANICAL/PLUMBING SYSTEMS & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF WORK.
00 311	REMOVE EXISTING WALL/WINDOW MOUNTED AC UNIT SYSTEM, PANEL AND SUPPORT BRACKETS. DISCONNECT/REMOVE ASSOCIATED PIPING AND ELECTRICAL. PROVIDE NEW WINDOW GLASS AND OR ALUMINUM PANEL TO MATCH ADJACENT.
05 510	NEW PIPE RAILS FOR DRINKING FOUNTAIN ALCOVE. SEE DETAIL 5/A10.4.2.
08 801	NEW GLAZING AND/OR ALUMINUM PANEL WITHIN EXISTING FRAME TO MATCH ADJACENT.
22 432	NEW HI-LOW FOUNTAIN, SEE DETAIL 3, 8, & 13/A10.10.1. AND PLUMBING DRAWINGS
23 307	NEW CONDENSING UNIT OVER NEW CONCRETE PAD, SEE MECHANICAL/PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK.
32 207	NEW WIRE CAGES WITH TOP COVERS AROUND HVAC EQUIPMENT SEE DETAIL 12/A10.4.1.
33 101	REROUTE (E) UNDERGROUND UTILITIES TO CLEAR THE NEW CONC. PADS.

GENERAL NOTES

GENERAL

1. GENERAL CONTRACTOR SHALL SURVEY AREA FOR UNDERGROUND UTILITY LOCATIONS PRIOR TO DEMOLITION AND NEW WORK ON SITE.
2. ROOM NAMES AND NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION FLOOR PLANS AND NEW FLOOR PLANS.
3. REFER TO MECHANICAL/PLUMBING AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL/PLUMBING AND ELECTRICAL DEMOLITION WORK AND NEW CONSTRUCTION.
4. PAINT ALL EXPOSED CONDUITS, FITTINGS, AND CONDUIT COVERS ASSOCIATED WITH THE NEW WORK TO MATCH EXISTING ADJACENT SURFACE AT BOTH EXTERIOR AND INTERIOR LOCATIONS.
5. REMOVE ALL EXISTING ITEMS TO ALLOW THE NEW WORK, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, ASPHALT PAVING, FENCING.
6. COORDINATE EXACT LOCATION OF NEW HVAC UNITS IN FIELD WITH THE OWNER AND ARCHITECT PRIOR TO INSTALLATION. PATCH AND REPAIR ADJACENT FLOOR AND WALL SURFACE AREAS ASSOCIATED WITH THE INSTALLATION OF THESE UNITS.
7. FOR HVAC UNIT REFRIGERANT LINES THROUGH WALL, SEE MECHANICAL DRAWINGS AND DETAILS 1 & 7/A9.1 FOR CONDUIT SPACING. SPACE PENETRATIONS TO CLEAR STUDS. COORDINATE LAYOUT IN FIELD. PATCH, REPAIR, AND PAINT EXTERIOR WALL SOFFIT, AND INTERIOR CEILING AFTER INSTALLATION TO MATCH EXISTING ADJACENT FINISHES.
8. REMOVE AND REINSTALL PROJECTORS PER DETAIL 16/A9.3.
9. CONTRACTOR TO PATCH, REPAIR AND PAINT ALL DAMAGED SURFACES AND/OR SURFACES TO BE EXPOSED TO VIEW AS A RESULT OF DEMOLITION WORK. PROTECT FLOOR SURFACES DURING CONSTRUCTION, REPLACE IF DAMAGED AS RESULT OF DEMOLITION/NEW WORK.
10. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
11. CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION OF (E) CONCRETE PADS AFTER DEMOLITION OF MECHANICAL/PLUMBING EQUIPMENT AND TO REPAIR/PATCH & INFILL CONCRETE SLAB AS NEEDED.
12. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF PARTIAL ROOF FOR NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECH. PLANS FOR LOCATIONS & WITH GARLAND ROOFING FOR PATCHING OF (E) ROOFING..
13. CONTRACTOR TO REFERENCE DEMOLITION & ABATEMENT REPORT PRIOR TO DEMOLITION WORK.
14. PROVIDE WALL-MOUNTED TACTILE EXIT SIGNS TYPICAL AT ALL EXIT DOORS SEE DETAIL 1/A0.4.
15. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND RE-INSTALLATION OF ALL WINDOW SHADES AND TRACK SYSTEM, INCLUDING ADJUSTING/CUTTING OF SHADES TO FIT FOR RE-INSTALLATION AND TO ALLOW THE INSTALLATION OF NEW CEILING SYSTEMS.

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4. SEE HAZARDOUS MATERIALS REPORT IN APPENDIX FOR ABATEMENT REQUIREMENTS DURING DEMOLITION.
5. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

LEGEND

- LINE OF ROOF, SKYLIGHT, OR SOFFIT OVERHEAD - SHOWN DASHED
- EXTERIOR STUD WALL
- (N) CONCRETE PAD

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023	

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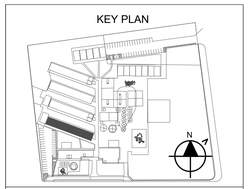
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

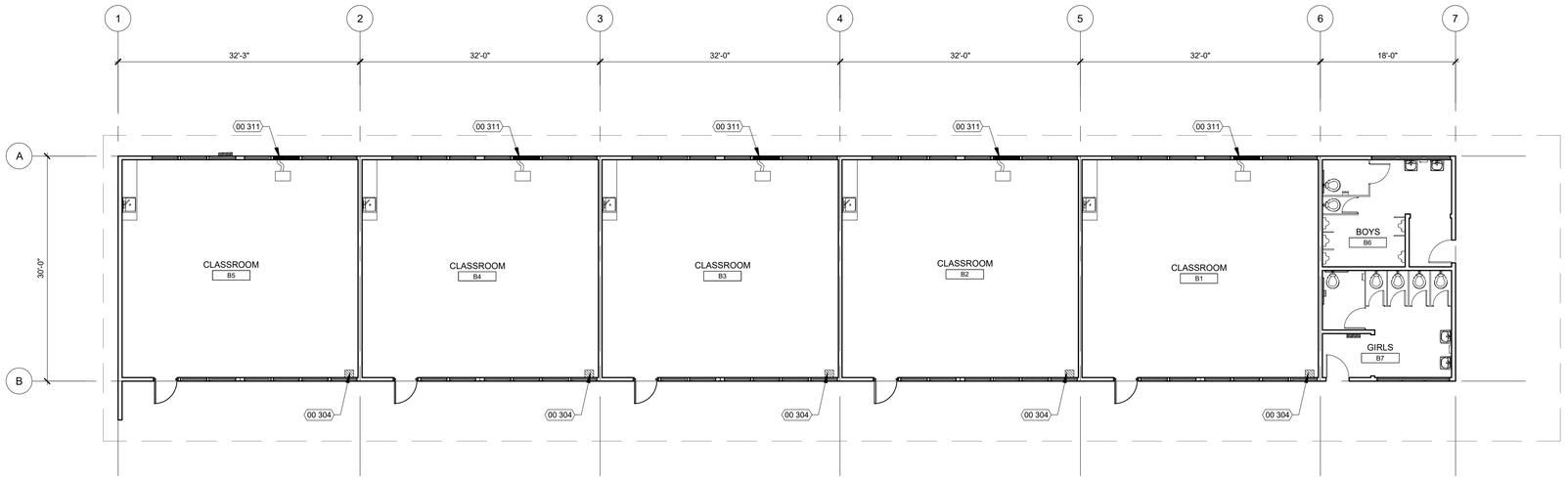
CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

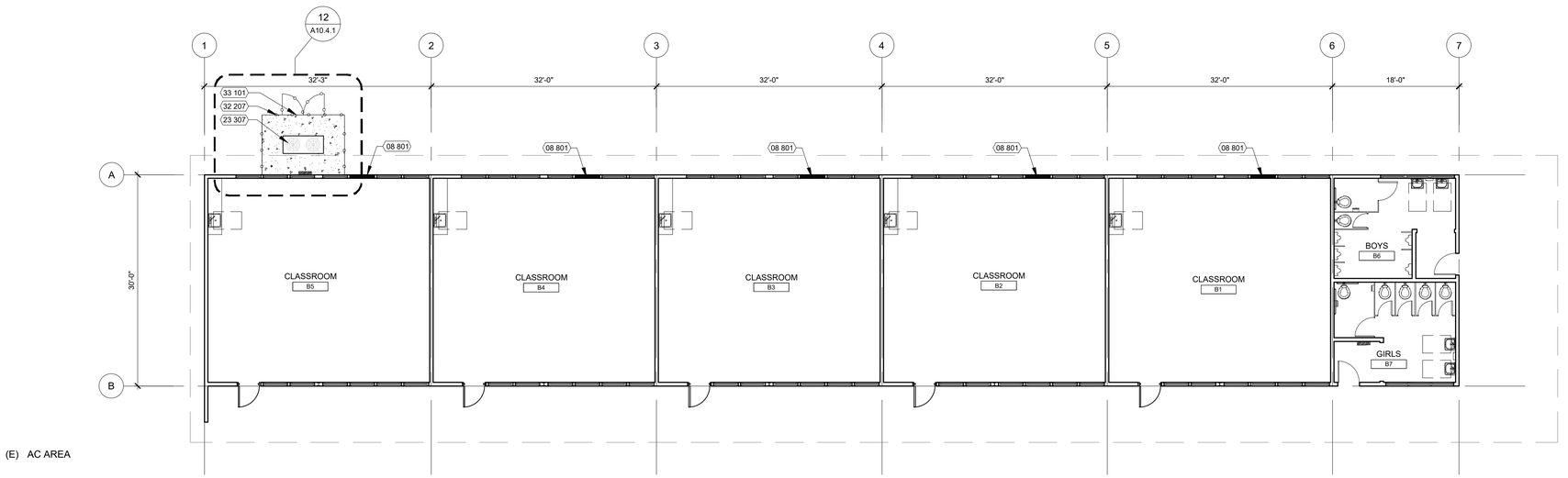
DEMO & NEW FLOOR PLAN CLASSROOM - BUILDING A

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A2.3
Drawn: KT	Checked: CD



N

DEMO FLOOR PLAN - CLASSROOM - BUILDING B 1/8" = 1'-0" 5



N

NEW FLOOR PLAN - CLASSROOM - BUILDING B 1/8" = 1'-0" 10

KEY NOTES

NUMBER	NOTE
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LEGEND

- LINE OF ROOF, SKYLIGHT, OR SOFFIT OVERHEAD - SHOWN DASHED
- (E) EXTERIOR STUD WALL
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DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
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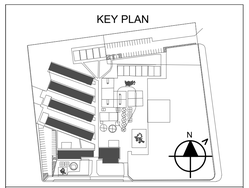
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

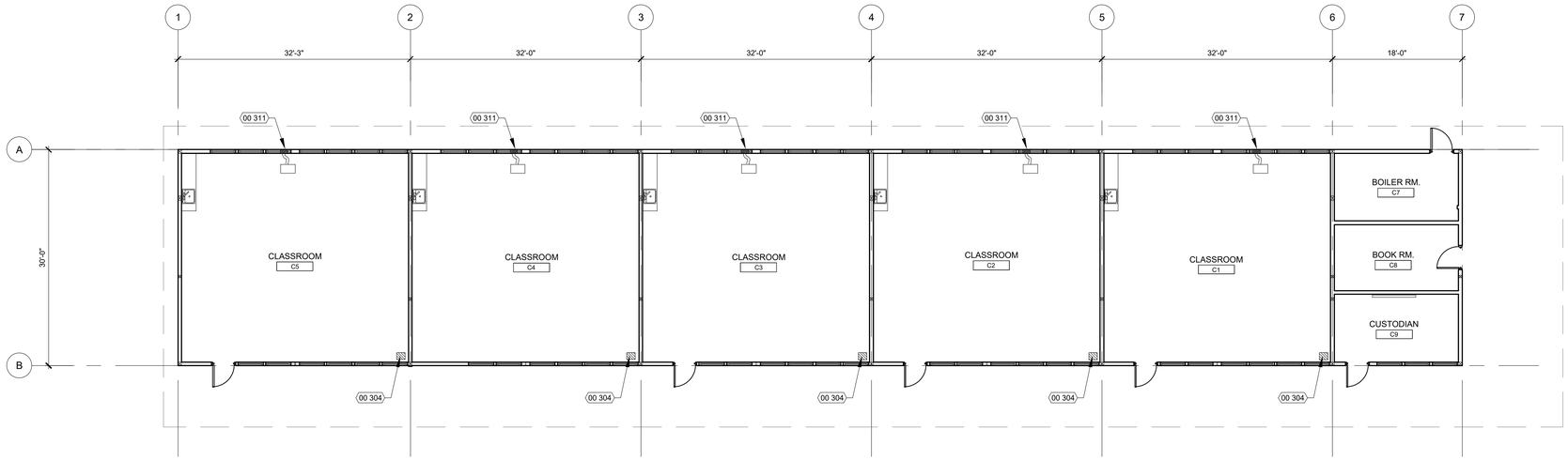
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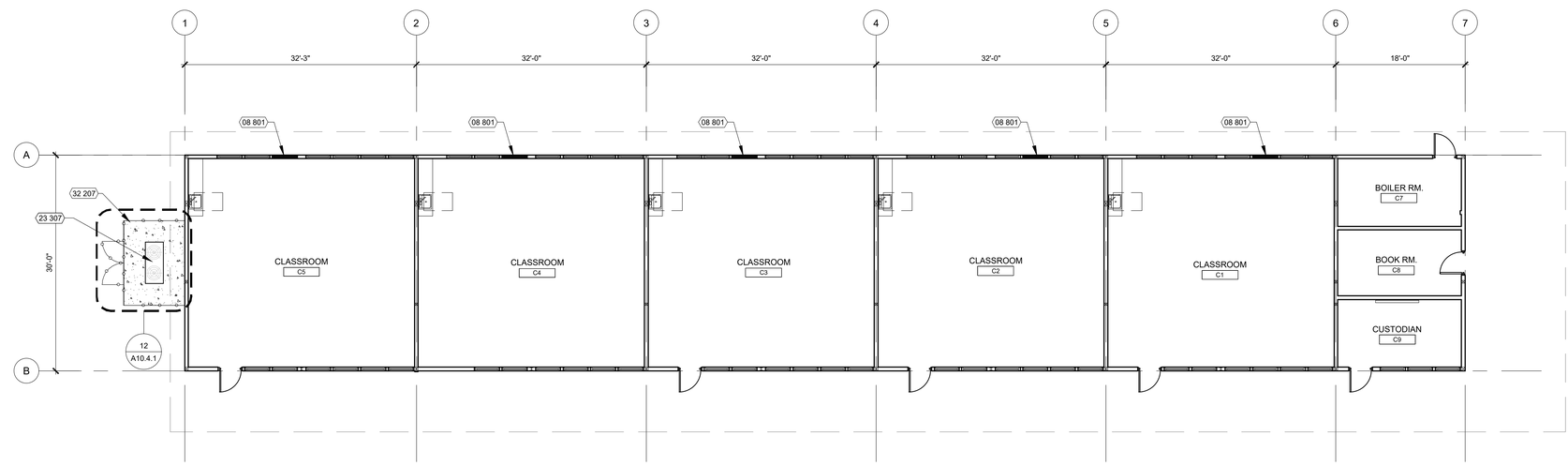
DEMO & NEW FLOOR PLAN - CLASSROOM - BUILDING B

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A2.4
Drawn KT	Checked CD



N

DEMO FLOOR PLAN - CLASSROOM - BUILDING C | 1/8" = 1'-0" | 5



N

NEW FLOOR PLAN - CLASSROOM - BUILDING C | 1/8" = 1'-0" | 10

KEY NOTES

NUMBER	NOTE
00 304	REMOVE AND REPLACE (E) MECHANICAL/PLUMBING SYSTEMS & PIPING. REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF WORK.
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LEGEND

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- (E) EXTERIOR STUD WALL
- (N) CONCRETE PAD

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
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DATE: 5/5/2023

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REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN

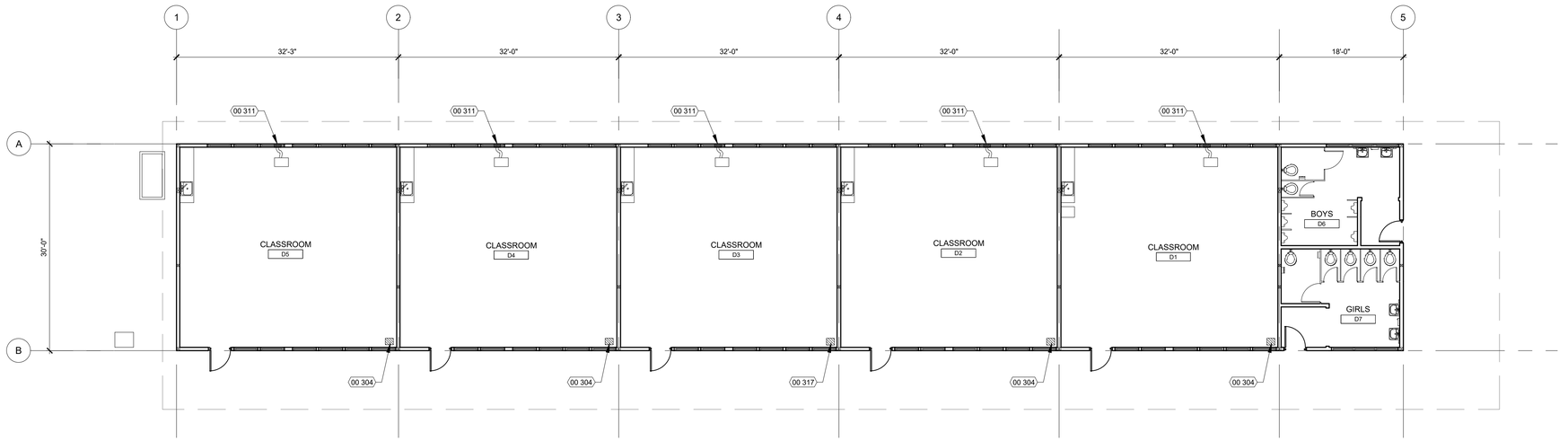
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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CONSTRUCTION DOCUMENTS

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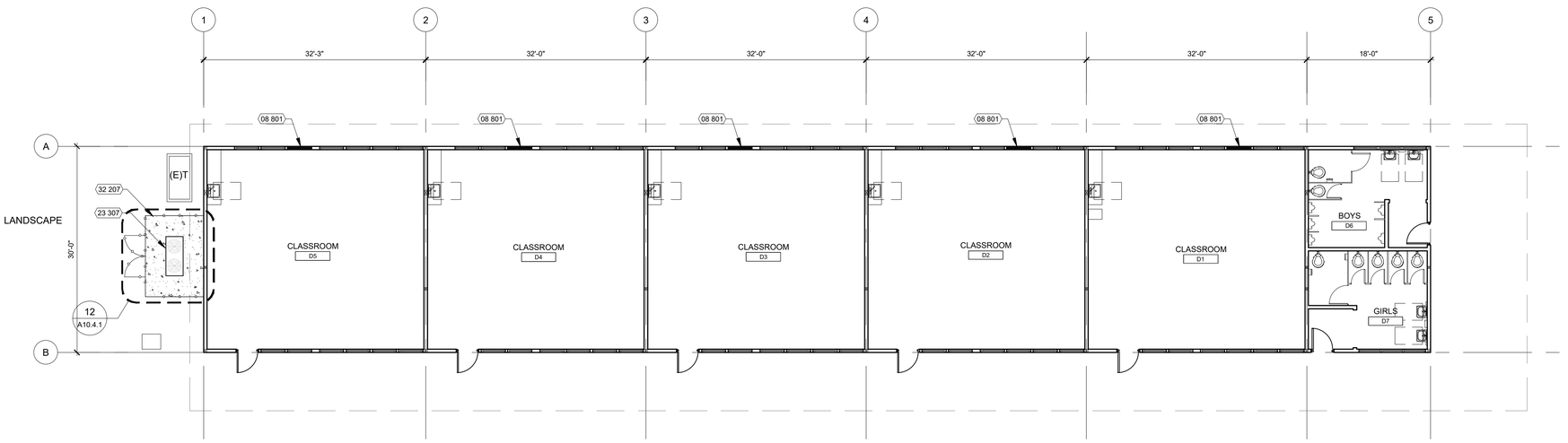
DEMO & NEW FLOOR PLAN - CLASSROOM - BUILDING C

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A2.5
Drawn: KT	Checked: CD



DEMO FLOOR PLAN - BUILDING D - CLASSROOM

1/8" = 1'-0" 5



NEW FLOOR PLAN - BUILDING D - CLASSROOM

1/8" = 1'-0" 10

KEY NOTES

NUMBER	NOTE
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5. REMOVE ALL EXISTING ITEMS TO ALLOW THE NEW WORK, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, ASPHALT PAVING, FENCING.
6. COORDINATE EXACT LOCATION OF NEW HVAC UNITS IN FIELD WITH THE OWNER AND ARCHITECT PRIOR TO INSTALLATION. PATCH AND REPAIR ADJACENT FLOOR AND WALL SURFACE AREAS ASSOCIATED WITH THE INSTALLATION OF THESE UNITS.
7. FOR HVAC UNIT REFRIGERANT LINES THROUGH WALL, SEE MECHANICAL DRAWINGS AND DETAILS 1 & 7/A9.1 FOR CONDUIT SPACING, SPACE PENETRATIONS TO CLEAR STUDS. COORDINATE LAYOUT IN FIELD. PATCH, REPAIR, AND PAINT EXTERIOR WALL SOFFIT, AND INTERIOR CEILING AFTER INSTALLATION TO MATCH EXISTING ADJACENT FINISHES.
8. REMOVE AND REINSTALL PROJECTORS PER DETAIL 16/A9.3.
9. CONTRACTOR TO PATCH, REPAIR AND PAINT ALL DAMAGED SURFACES AND/OR SURFACES TO BE EXPOSED TO VIEW AS A RESULT OF DEMOLITION WORK. PROTECT FLOOR SURFACES DURING CONSTRUCTION, REPLACE IF DAMAGED AS RESULT OF DEMOLITION/NEW WORK.
10. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
11. CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION OF (E) CONCRETE PADS AFTER DEMOLITION OF MECHANICAL/PLUMBING EQUIPMENT AND TO REPAIR/PATCH & INFILL CONCRETE SLAB AS NEEDED.
12. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF PARTIAL ROOF FOR NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECH. PLANS FOR LOCATIONS & WITH GARLAND ROOFING FOR PATCHING OF (E) ROOFING.
13. CONTRACTOR TO REFERENCE DEMOLITION & ABATEMENT REPORT PRIOR TO DEMOLITION WORK.
14. PROVIDE WALL-MOUNTED TACTILE EXIT SIGNS TYPICAL AT ALL EXIT DOORS SEE DETAIL 1/A0.4.
15. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND RE-INSTALLATION OF ALL WINDOW SHADES AND TRACK SYSTEM, INCLUDING ADJUSTING/CUTTING OF SHADES TO FIT FOR RE-INSTALLATION AND TO ALLOW THE INSTALLATION OF NEW CEILING SYSTEMS.

DEMOLITION

1. ALL DEMOLITION WORK SHALL COMPLY WITH CFC CHAPTER 14 OF THE FIRE CODE AND CBC CHAPTER 33 OF THE BUILDING CODE FOR SAFETY DURING CONSTRUCTION AND DEMOLITION AND CALIFORNIA EXISTING BUILDING CODE (PART 10) FOR EXISTING STRUCTURES.
2. ALL DIMENSIONS SHOWN ON THIS SHEET ARE EXISTING AND APPROXIMATE. VERIFY IN FIELD.
3. VERIFICATION OF EXISTING CONDITIONS:
   A. IN THE REMODELING OF AN EXISTING BUILDING CERTAIN ASSUMPTIONS HAVE BEEN MADE REGARDING EXISTING CONDITIONS. SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL SUMS OF MONEY, OR DESTROYING OTHERWISE SERVICEABLE PORTIONS OF THE BUILDING. NOTIFY THE ARCHITECT IMMEDIATELY FOR GUIDANCE ON HOW TO PROCEED WHEN CONDITIONS ARE DISCOVERED DURING CONSTRUCTION WHICH DIFFER FROM THOSE INDICATED ON THE DRAWINGS.
4. SEE HAZARDOUS MATERIALS REPORT IN APPENDIX FOR ABATEMENT REQUIREMENTS DURING DEMOLITION.
5. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

LEGEND

LINE OF ROOF, SKYLIGHT, OR SOFFIT OVERHEAD - SHOWN DASHED

(E) EXTERIOR STUD WALL

(N) CONCRETE PAD

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT SETIAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023	

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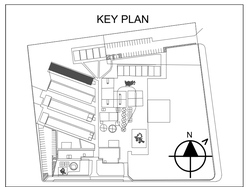
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

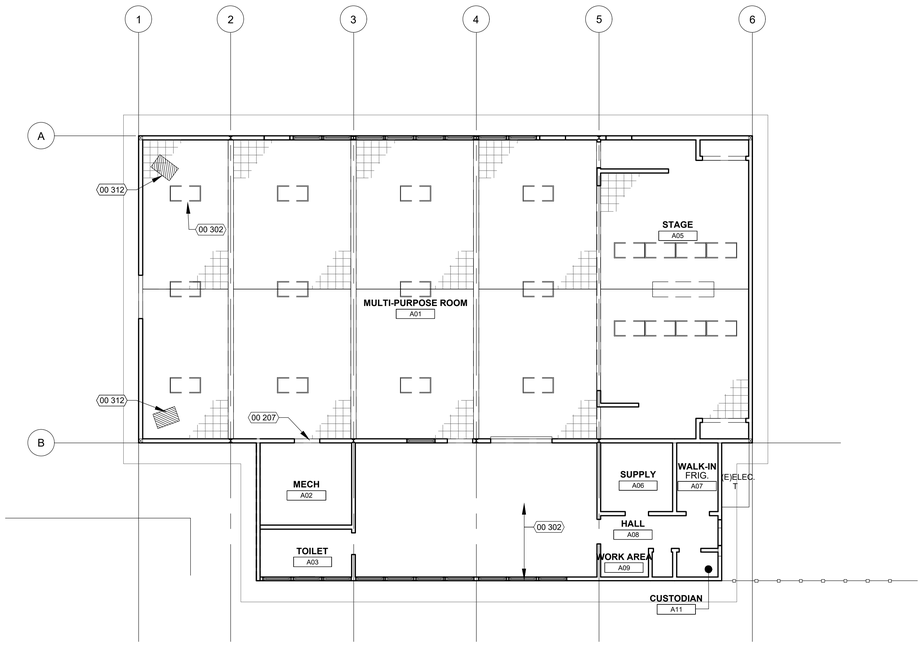
CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

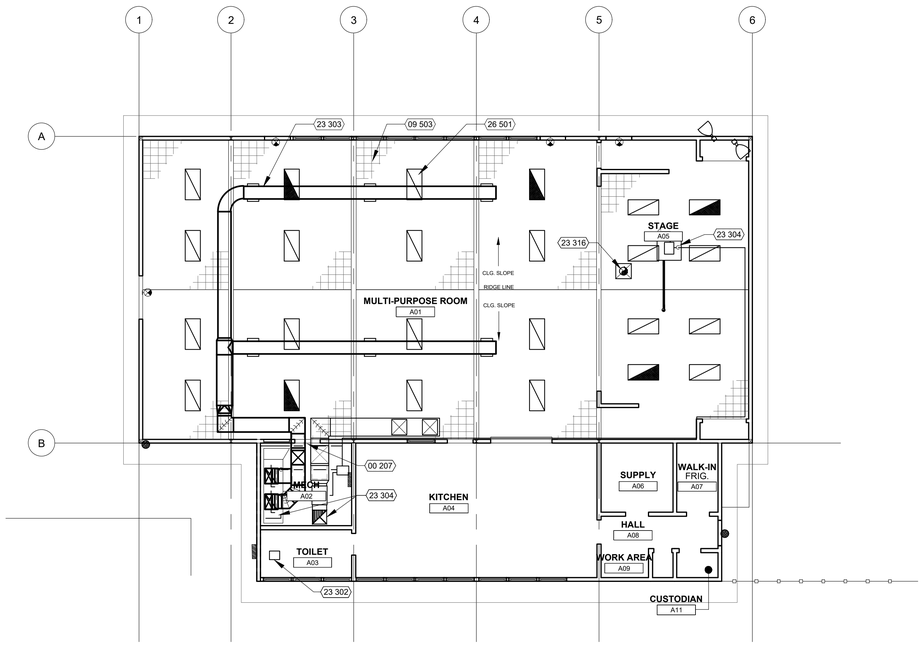
DEMO & NEW FLOOR PLAN CLASSROOM - BUILDING D

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A2.6
Drawn: KT	Checked: CD



N

DEMO REFLECTED CEILING PLAN - MUTLIPURPOSE BUILDING | 1/8" = 1'-0" | 5



N

NEW REFLECTED CEILING PLAN - MUTLIPURPOSE BUILDING | 1/8" = 1'-0" | 10

KEY NOTES

NUMBER	NOTE
00 207	REMOVE EXISTING CLERESTORY WINDOWS ABOVE ROOF FOR HVAC DUCT PENETRATION. INFILL WINDOW OPENING PER DETAIL 10/A10.4.1.
00 302	REMOVE AND REPLACE ALL EXISTING LIGHT FIXTURES , REFER TO ELEC. DWGS. FOR EXTENT OF WORK. VERIFY QUANTITIES AND LAYOUT IN FIELD.
00 312	REMOVE (E) MECHANICAL SYSTEMS, REFER TO MECHANICAL DWGS. FOR THE EXTENT OF DEMOLITION WORK.
09 503	PATCH, REPLACE AND PAINT ALL EXISTING CEILING TILES ON (E) BEAMS.
23 302	NEW EXHAUST FANS. CONTRACTOR TO PATCH, REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE MECH. DWGS, SEE DETAIL 7/A10.7.1
23 303	NEW EXPOSED DUCT TO RUN BELOW EXISTING BEAMS, PAINT TYP, SEE MECH. DWGS. FOR MOUNTING DETAILS.
23 304	NEW MECHANICAL EQUIPMENT. SEE MECH. DWGS FOR EXTENT OF WORK.
23 316	NEW ROOF MOUNTED RELIEF HOOD PER MECH. DWGS. CONTRACTOR TO PATCH/REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT, SEE DETAIL 7/A10.7.1
26 501	NEW LIGHT FIXTURE TYP., SEE ELEC. DWGS.

GENERAL NOTES

GENERAL
1. ALL HEIGHTS ARE REFERENCED FROM FINISH FLOOR ELEVATIONS = 0'-0"
2. ACCESS DOORS TO BE INSTALLED TO SERVICE EQUIPMENT SHOWN IN CONTRACT DOCUMENTS. EXACT NUMBER AND LOCATION OF ACCESS PANELS IS NOT SHOWN. SEE DETAIL 21/A10.9.2.
3. PROVIDE ACCESS PANELS TO ENCLOSED AREAS ABOVE GYPSUM BOARD CEILINGS. CENTER AND ALIGN TO LIGHT FIXTURES, AND OTHER CEILING FIXTURES PER PLAN.
4. CEILING SYSTEM SHOULD BE CENTERED WITHIN EACH ROOM AS WELL AS ALIGNED WITH THE STRUCTURAL GRID, U.O.N.
5. CEILING SYSTEM SHALL BE COORDINATED WITH THE LIGHTING & ELECTRICAL PLANS.
6. PAINT GYP. BD. CEILINGS AND SOFFITS P-1 U.O.N. (PAINT FINISH TO BE SAME AT FACE AND UNDERSIDE OF SOFFITS.) REFER TO ROOM FINISH SCHEDULE FOR COLOR SELECTIONS.
7. PAINT EXPOSED CEILINGS AND EQUIPMENT PER FINISH SCHEDULE.
8. NO EXPOSED NAILS OR SCREWS ARE ALLOWED.
9. REMOVE EXISTING PROJECTORS AS NEEDED FOR INSTALLATION OF NEW CEILINGS/SOFFITS, THEN RE-INSTALL PROJECTORS AFTER INSTALLATION OF NEW CEILINGS/SOFFITS.

EQUIPMENT
1. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SUPPORTS & BRACING. ELECTRICAL DEVICES ARE SHOWN FOR LOCATION IN RELATION TO LIGHT FIXTURES AND MECHANICAL DIFFUSERS IN SELECT AREAS. FOR FIXTURE INFORMATION SEE ELECTRICAL DRAWINGS.
2. SEE MECHANICAL AND PLUMBING DRAWINGS FOR DIFFUSERS AND PIPE CHASES.
3. SEE FIRE PROTECTION DETAILS FOR PENETRATIONS THROUGH RATED WALLS, WHERE OCCURS.
4. SINGLE LIGHT FIXTURES IN GYP. BD. CEILINGS SHALL BE CENTERED IN ROOM.
5. LIGHT FIXTURE DIMENSIONS ARE TO CENTERLINE OF FIXTURE OR GROUP OF FIXTURES, U.O.N.
6. CENTER AND ALIGN SMOKE DETECTOR, DIFFUSERS, GRILLS, AND SIMILAR ITEMS IN CEILING TILE GRID AND ALIGN WITH LIGHT FIXTURES, SEE DETAIL 16/A10.9.2.
7. SEE ELECTRICAL DRAWINGS FOR LOW LEVEL EXIT SIGN LOCATIONS.

DEMOLITION
1. ALL DEMOLITION WORK SHALL COMPLY WITH CFC CHAPTER 14 OF THE FIRE CODE FOR SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 34 OF THE BUILDING CODE FOR EXISTING STRUCTURES.
2. ALL DIMENSIONS SHOWN ON THIS SHEET ARE EXISTING APPROXIMATE. VERIFY IN FIELD.
3. VERIFICATION OF EXISTING CONDITIONS:
   A. IN THE REMODELING OF AN EXISTING BUILDING CERTAIN ASSUMPTIONS HAVE BEEN MADE REGARDING EXISTING CONDITIONS. SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL SUMS OF MONEY, OR DESTROYING OTHERWISE SERVICEABLE PORTIONS OF THE BUILDING. NOTIFY THE ARCHITECT IMMEDIATELY FOR GUIDANCE ON HOW TO PROCEED WHEN CONDITIONS ARE DISCOVERED DURING CONSTRUCTION WHICH DIFFER FROM THOSE INDICATED ON THE DRAWINGS.

LEGEND

- (E) CEILING SYSTEM TO BE REMOVED
- PATCH AND PAINT (E) GLUE-ON ACOUSTIC CEILING TILES
- (E) TO REMAIN GYPSUM WALLBOARD CEILING
- (E) LIGHT FIXTURE TO BE REMOVED
- LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS
- MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
- NURSE / A02 / (+) 8'-0" — ROOM TAG (+) 8'-0" = CEILING HEIGHT OF ROOM, U.O.N.

DSA STAMP

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Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT — SETH P WHITMORE — No. C 30345 — Ren. 9/30/23 — STATE OF CALIFORNIA — DATE SIGNED: 04/24/2023	

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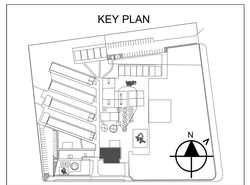
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



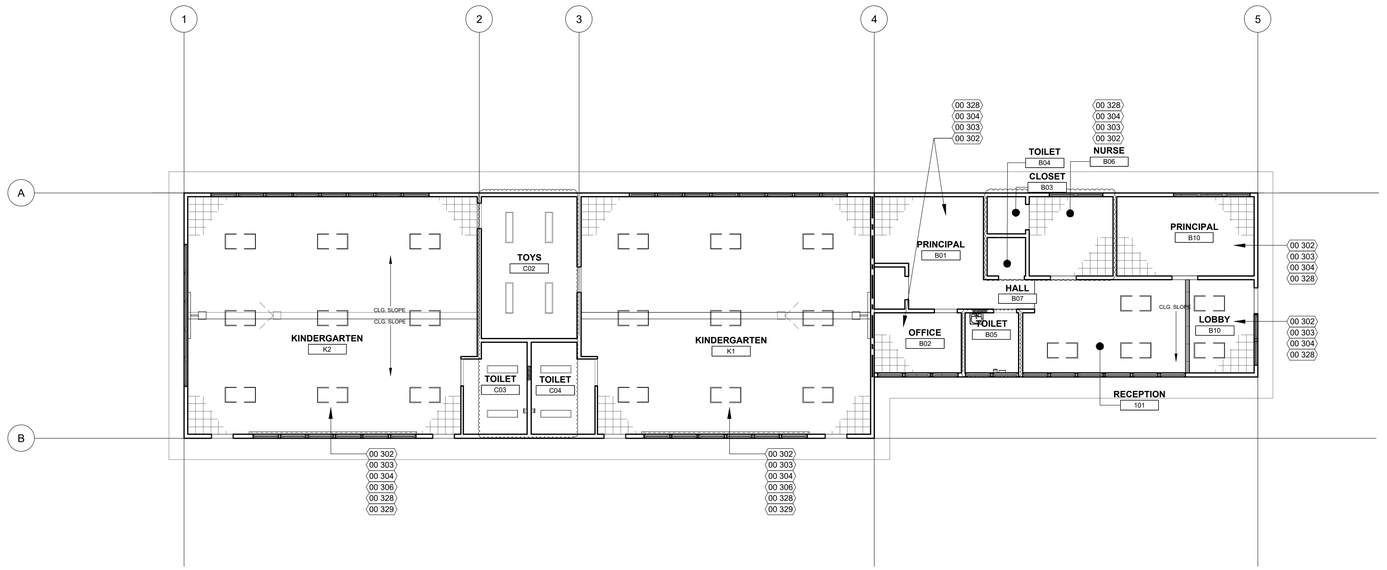
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CONSTRUCTION DOCUMENTS

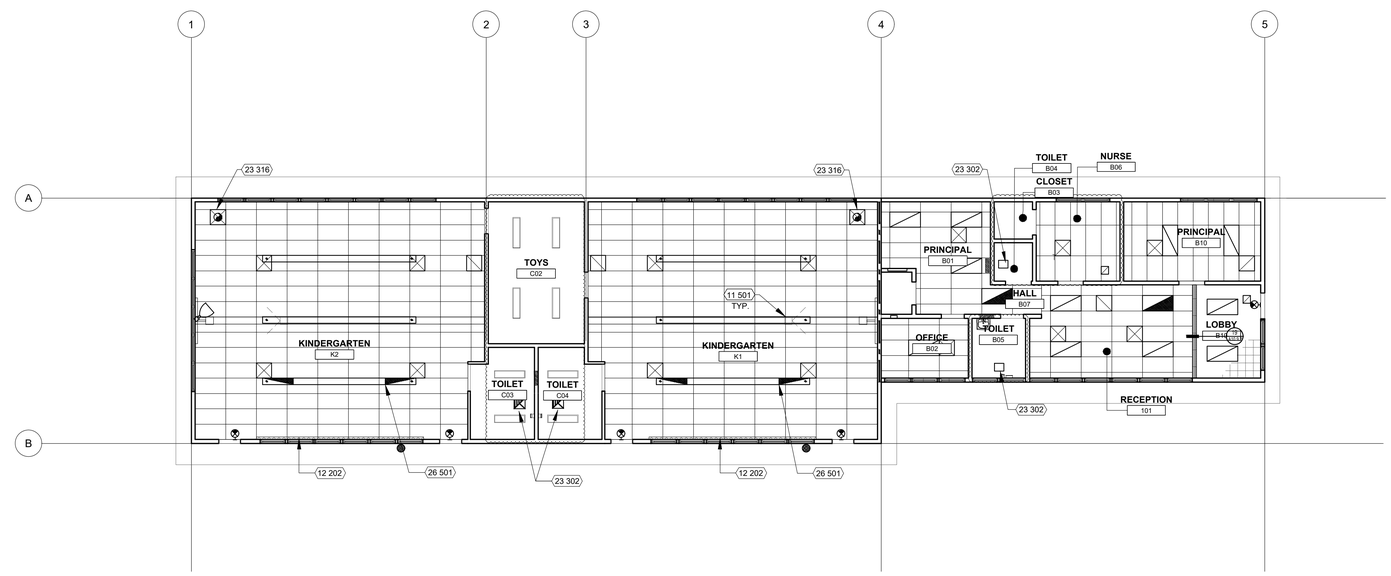
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DEMO & NEW REFLECTED CEILING PLAN - MULTI-PURPOSE BUILDING

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A3.1
Drawn / Checked	
KT / CD	



DEMO REFLECTED CEILING PLAN - KINDER & ADMIN. BUILDING | 1/8" = 1'-0" | 5



NEW REFLECTED CEILING PLAN - KINDER & ADMIN. BUILDING | 1/8" = 1'-0" | 10

KEY NOTES

NUMBER	NOTE
00 302	REMOVE AND REPLACE ALL EXISTING LIGHT FIXTURES , REFER TO ELEC. DWGS. FOR EXTENT OF WORK. VERIFY QUANTITIES AND LAYOUT IN FIELD.
00 303	REMOVE AND REPLACE EXISTING HVAC DUCT, REFER TO MECHANICAL DWGS. FOR EXTENT OF WORK.
00 304	REMOVE AND REPLACE (E) MECHANICAL/PLUMBING SYSTEMS & PIPING; REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF WORK.
00 306	REMOVE (E) GLUE-ON ACOUSTICAL TILE CEILING SYSTEM. TO BARE RAFTER. PREPARE FOR NEW CEILING SYSTEM.
00 328	REMOVE AND REPLACE CEILING/ROOF INSULATION.
00 329	REMOVE (E) PROJECTOR AND SALVAGE FOR RE-INSTALLATION.
11 501	RE-INSTALL (E) PROJECTOR IN (N) CEILING, SEE DETAIL 18/A10.9.2.
12 202	RE-INSTALL WINDOW BLINDS, TYP.
23 302	NEW EXHAUST FANS. CONTRACTOR TO PATCH, REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE MECH. DWGS, SEE DETAIL 7/A10.7.1.
23 316	NEW ROOF MOUNTED RELIEF HOOD PER MECH. DWGS. CONTRACTOR TO PATCH/REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE DETAIL 7/A10.7.1.
26 501	NEW LIGHT FIXTURE TYP. SEE ELEC. DWGS.

GENERAL NOTES

GENERAL
1. ALL HEIGHTS ARE REFERENCED FROM FINISH FLOOR ELEVATIONS = 0'-0"
2. ACCESS DOORS TO BE INSTALLED TO SERVICE EQUIPMENT SHOWN IN CONTRACT DOCUMENTS. EXACT NUMBER AND LOCATION OF ACCESS PANELS IS NOT SHOWN. SEE DETAIL 21/A10.9.2.
3. PROVIDE ACCESS PANELS TO ENCLOSED AREAS ABOVE GYPSUM BOARD CEILINGS. CENTER AND ALIGN TO LIGHT FIXTURES, AND OTHER CEILING FIXTURES PER PLAN.
4. CEILING SYSTEM SHOULD BE CENTERED WITHIN EACH ROOM AS WELL AS ALIGNED WITH THE STRUCTURAL GRID, U.O.N.
5. CEILING SYSTEM SHALL BE COORDINATED WITH THE LIGHTING & ELECTRICAL PLANS.
6. PAINT GYP. BD. CEILINGS AND SOFFITS P-1 U.O.N. (PAINT FINISH TO BE SAME AT FACE AND UNDERSIDE OF SOFFITS.) REFER TO ROOM FINISH SCHEDULE FOR COLOR SELECTIONS.
7. PAINT EXPOSED CEILINGS AND EQUIPMENT PER FINISH SCHEDULE.
8. NO EXPOSED NAILS OR SCREWS ARE ALLOWED.
9. REMOVE EXISTING PROJECTORS AS NEEDED FOR INSTALLATION OF NEW CEILINGS/SOFFITS, THEN RE-INSTALL PROJECTORS AFTER INSTALLATION OF NEW CEILINGS/SOFFITS.

EQUIPMENT
1. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SUPPORTS & BRACING. ELECTRICAL DEVICES ARE SHOWN FOR LOCATION IN RELATION TO LIGHT FIXTURES AND MECHANICAL DIFFUSERS IN SELECT AREAS. FOR FIXTURE INFORMATION SEE ELECTRICAL DRAWINGS.
2. SEE MECHANICAL AND PLUMBING DRAWINGS FOR DIFFUSERS AND PIPE CHASES.
3. SEE FIRE PROTECTION DETAILS FOR PENETRATIONS THROUGH RATED WALLS, WHERE OCCURS.
4. SINGLE LIGHT FIXTURES IN GYP. BD. CEILINGS SHALL BE CENTERED IN ROOM.
5. LIGHT FIXTURE DIMENSIONS ARE TO CENTERLINE OF FIXTURE OR GROUP OF FIXTURES, U.O.N.
6. CENTER AND ALIGN SMOKE DETECTOR, DIFFUSERS, GRILLS, AND SIMILAR ITEMS IN CEILING TILE GRID AND ALIGN WITH LIGHT FIXTURES, SEE DETAIL 16/A10.9.2.
7. SEE ELECTRICAL DRAWINGS FOR LOW LEVEL EXIT SIGN LOCATIONS.

DEMOLITION
1. ALL DEMOLITION WORK SHALL COMPLY WITH CFC CHAPTER 14 OF THE FIRE CODE FOR SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 34 OF THE BUILDING CODE FOR EXISTING STRUCTURES.
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LEGEND

- (E) CEILING SYSTEM TO BE REMOVED
- (E) TO REMAIN 2X2 SUSPENDED CEILING ACOUSTICAL CEILING PANEL SYSTEM. PATCH AND REPAIR AS NEEDED WITH (N) LIGHT FIXTURE INSTALLATION
- (E) TO REMAIN GYPSUM WALLBOARD CEILING
- (E) LIGHT FIXTURE TO BE REMOVED
- NEW 2x4 IN-LAY ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A10.9.2 & A10.9.3 FOR DETAILS.
- LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS
- MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
- NURSE / A02 / (+) 8'-0" — ROOM TAG (+) 8'-0" = CEILING HEIGHT OF ROOM, U.O.N.

DSA STAMP

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APP: 01-120632 INC:
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DATE: 5/5/2023

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ARCHITECT	ENGINEER
LICENSED ARCHITECT — BRYAN P. WHITMORE — No. C 30345 — Ren. 9/30/23 — STATE OF CALIFORNIA — DATE SIGNED: 04/24/2023	

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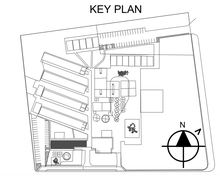
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



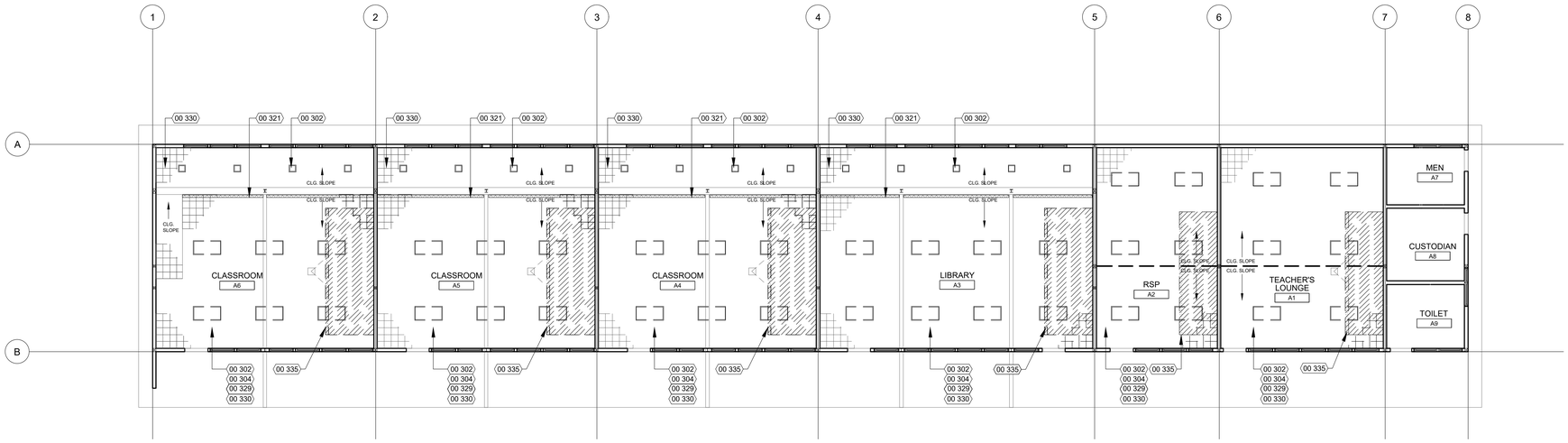
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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SAN JOSE, CA 95127

DEMO & NEW REFLECTED CEILING PLAN - KINDER & ADMIN. BUILDING

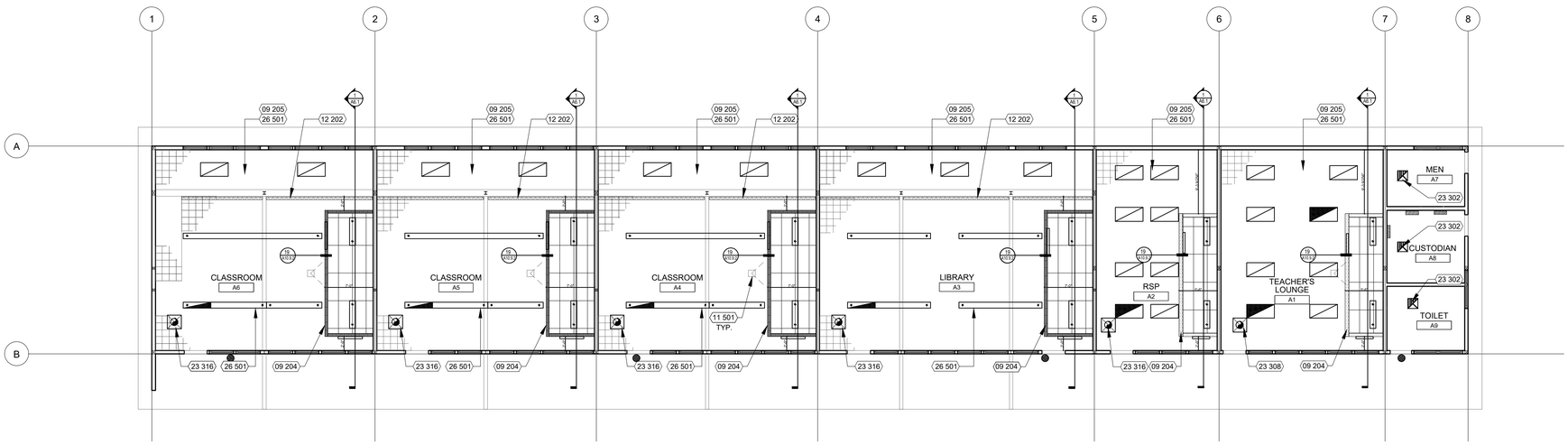
Date 04/24/2023	Project Number 22027
Application Number 01-120632	Drawing Number A3.2
Drawn KT	Checked CD



N

DEMO REFLECTED CEILING PLAN - CLASSROOM - BUILDING A

1/8" = 1'-0" 5



N

NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING A

1/8" = 1'-0" 10

KEY NOTES

NUMBER	NOTE
00 302	REMOVE AND REPLACE ALL EXISTING LIGHT FIXTURES , REFER TO ELEC. DWGS. FOR EXTENT OF WORK. VERIFY QUANTITIES AND LAYOUT IN FIELD.
00 304	REMOVE AND REPLACE (E) MECHANICAL/PLUMBING SYSTEMS & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF WORK.
00 321	REMOVE (E) BLINDS W/TRACKS WITHOUT DAMAGING AND STORE IN SAFE AREA AS NOT TO GET DAMAGED. BLINDS TO BE RE-INSTALLED AFTER NEW CEILING INSTALL. COORDINATE WITH ARCHITECT FOR INSTALLATION LOCATION/INSTRUCTIONS.
00 329	REMOVE (E) PROJECTOR AND SALVAGE FOR RE-INSTALLATION.
00 330	EXISTING CEILING TO REMAIN. PATCH/REPAIR AND PAINT.
00 335	DEMOLISH PORTION OF (E) CEILING FOR (N) HVAC SOFFIT
09 204	NEW ACT SOFFIT WITH GYP. BD. BULKHEAD. SEE DETAIL 19/A10.9.2.
09 205	PATCH/REPAIR AND PAINT (E) GLUE-ON ACOUSTICAL TILES.
11 501	RE-INSTALL (E) PROJECTOR IN (N) CEILING. SEE DETAIL 18/A10.9.2.
12 202	RE-INSTALL BLINDS. BLINDS TO BE INSTALLED AFTER NEW CEILING INSTALL. COORDINATE WITH ARCHITECT FOR INSTALLATION LOCATION/INSTRUCTIONS.
23 302	NEW EXHAUST FANS. CONTRACTOR TO PATCH, REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE MECH. DWGS, SEE DETAIL 7/A10.7.1.
23 316	NEW ROOF MOUNTED RELIEF HOOD PER MECH. DWGS. CONTRACTOR TO PATCH/REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE DETAIL 7/A10.7.1.
26 501	NEW LIGHT FIXTURE TYP., SEE ELEC. DWGS.

GENERAL NOTES

GENERAL
1. ALL HEIGHTS ARE REFERENCED FROM FINISH FLOOR ELEVATIONS = 0'-0"
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3. PROVIDE ACCESS PANELS TO ENCLOSED AREAS ABOVE GYPSUM BOARD CEILINGS. CENTER AND ALIGN TO LIGHT FIXTURES, AND OTHER CEILING FIXTURES PER PLAN.
4. CEILING SYSTEM SHOULD BE CENTERED WITHIN EACH ROOM AS WELL AS ALIGNED WITH THE STRUCTURAL GRID, U.O.N.
5. CEILING SYSTEM SHALL BE COORDINATED WITH THE LIGHTING & ELECTRICAL PLANS.
6. PAINT GYP. BD. CEILINGS AND SOFFITS P-1 U.O.N. (PAINT FINISH TO BE SAME AT FACE AND UNDERSIDE OF SOFFITS.) REFER TO ROOM FINISH SCHEDULE FOR COLOR SELECTIONS.
7. PAINT EXPOSED CEILINGS AND EQUIPMENT PER FINISH SCHEDULE.
8. NO EXPOSED NAILS OR SCREWS ARE ALLOWED.
9. REMOVE EXISTING PROJECTORS AS NEEDED FOR INSTALLATION OF NEW CEILINGS/SOFFITS, THEN RE-INSTALL PROJECTORS AFTER INSTALLATION OF NEW CEILINGS/SOFFITS.

EQUIPMENT
1. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SUPPORTS & BRACING. ELECTRICAL DEVICES ARE SHOWN FOR LOCATION IN RELATION TO LIGHT FIXTURES AND MECHANICAL DIFFUSERS IN SELECT AREAS. FOR FIXTURE INFORMATION SEE ELECTRICAL DRAWINGS.
2. SEE MECHANICAL AND PLUMBING DRAWINGS FOR DIFFUSERS AND PIPE CHASES.
3. SEE FIRE PROTECTION DETAILS FOR PENETRATIONS THROUGH RATED WALLS, WHERE OCCURS.
4. SINGLE LIGHT FIXTURES IN GYP. BD. CEILINGS SHALL BE CENTERED IN ROOM.
5. LIGHT FIXTURE DIMENSIONS ARE TO CENTERLINE OF FIXTURE OR GROUP OF FIXTURES, U.O.N.
6. CENTER AND ALIGN SMOKE DETECTOR, DIFFUSERS, GRILLS, AND SIMILAR ITEMS IN CEILING TILE GRID AND ALIGN WITH LIGHT FIXTURES, SEE DETAIL 16/A10.9.2.
7. SEE ELECTRICAL DRAWINGS FOR LOW LEVEL EXIT SIGN LOCATIONS.

DEMOLITION
1. ALL DEMOLITION WORK SHALL COMPLY WITH CFC CHAPTER 14 OF THE FIRE CODE FOR SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 34 OF THE BUILDING CODE FOR EXISTING STRUCTURES.
2. ALL DIMENSIONS SHOWN ON THIS SHEET ARE EXISTING APPROXIMATE. VERIFY IN FIELD.
3. VERIFICATION OF EXISTING CONDITIONS:
   A. IN THE REMODELING OF AN EXISTING BUILDING CERTAIN ASSUMPTIONS HAVE BEEN MADE REGARDING EXISTING CONDITIONS. SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL SUMS OF MONEY, OR DESTROYING OTHERWISE SERVICEABLE PORTIONS OF THE BUILDING. NOTIFY THE ARCHITECT IMMEDIATELY FOR GUIDANCE ON HOW TO PROCEED WHEN CONDITIONS ARE DISCOVERED DURING CONSTRUCTION WHICH DIFFER FROM THOSE INDICATED ON THE DRAWINGS.

LEGEND

- (E) CEILING SYSTEM TO BE REMOVED
- (E) TO REMAIN 2X2 SUSPENDED CEILING ACOUSTICAL CEILING PANEL SYSTEM. PATCH AND REPAIR AS NEEDED WITH (N) LIGHT FIXTURE INSTALLATION
- (E) TO REMAIN GYPSUM WALLBOARD CEILING
- (E) LIGHT FIXTURE TO BE REMOVED
- NEW 2x4 IN-LAY ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A10.9.2 & A10.9.3 FOR DETAILS.
- LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS
- MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
- NURSE / A02 / (+) 8'-0" — ROOM TAG (+) 8'-0" = CEILING HEIGHT OF ROOM, U.O.N.

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IDENTIFICATION STAMP
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APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT — BRYAN P. WHITMORE — No. C 30345 — Ren. 9/30/23 — STATE OF CALIFORNIA — DATE SIGNED: 04/24/2023	

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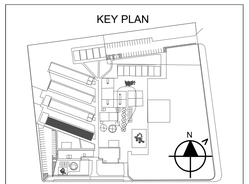
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



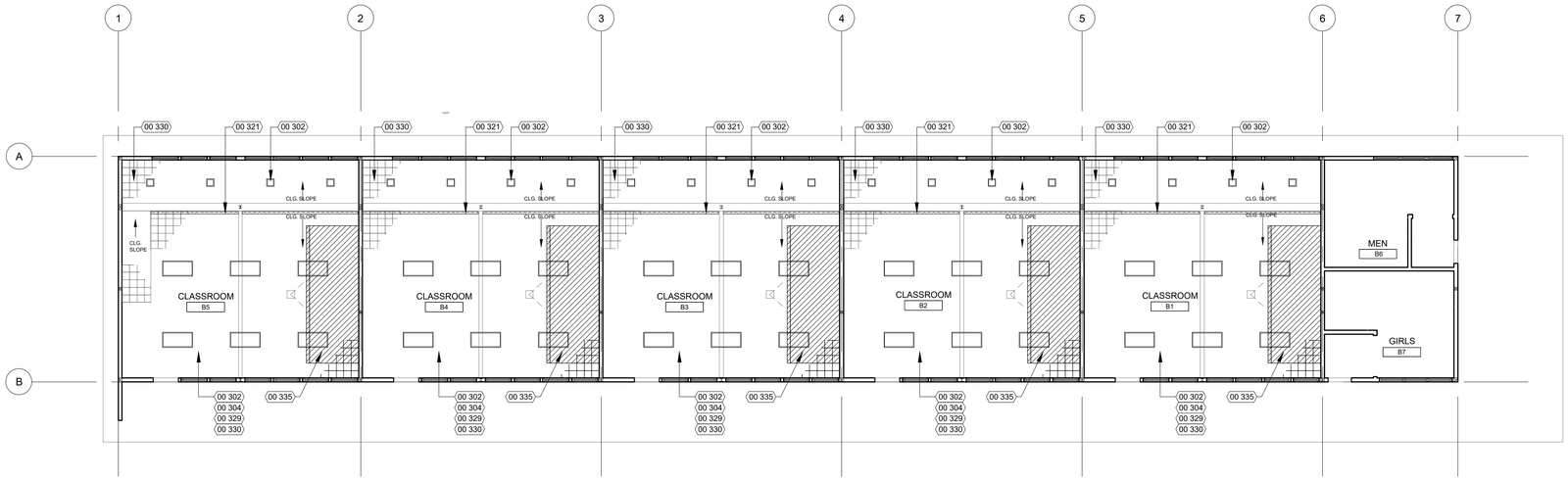
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

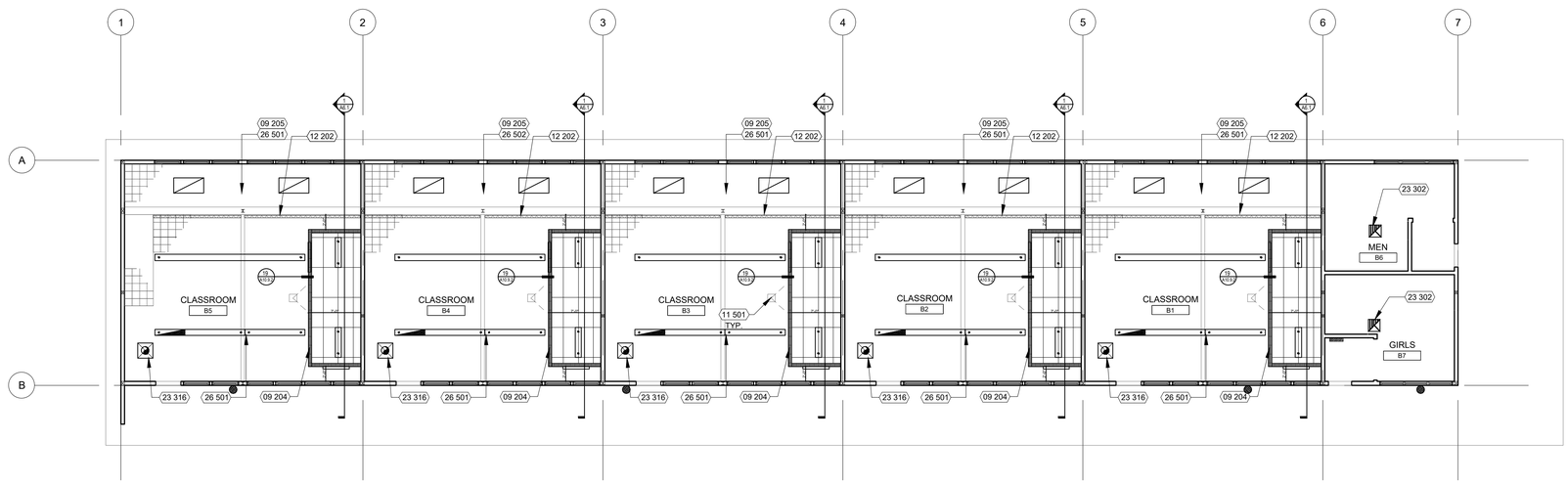
DEMO & NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING A

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A3.3
Drawn / Checked	
KT / CD	



DEMO REFLECTED CEILING PLAN - CLASSROOM - BUILDING B

1/8" = 1'-0" 5



NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING B

1/8" = 1'-0" 10

DEMOLITION NOTES

NUMBER	NOTE
00 209	CONTRACTOR TO DEMOLISH (E) ROOF TO ALLOW FOR NEW ROOF AND HVAC EQUIPMENT PENETRATION. CONTRACTOR TO COORDINATE WITH ARCHITECT FOR ROOFING MATERIAL, APPROVED DISTRICT CONTRACTOR TO INSTALL: TYP.
00 302	REMOVE AND REPLACE ALL EXISTING LIGHT FIXTURES , REFER TO ELEC. DWGS. FOR EXTENT OF WORK. VERIFY QUANTITIES AND LAYOUT IN FIELD.
00 304	REMOVE AND REPLACE (E) MECHANICAL/PLUMBING SYSTEMS & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF WORK.
00 321	REMOVE (E) BLINDS W/TRACKS WITHOUT DAMAGING AND STORE IN SAFE AREA AS NOT TO GET DAMAGED. BLINDS TO BE RE-INSTALLED AFTER NEW CEILING INSTALL. COORDINATE WITH ARCHITECT FOR INSTALLATION LOCATION/INSTRUCTIONS.
00 329	REMOVE (E) PROJECTOR AND SALVAGE FOR RE-INSTALLATION.
00 330	EXISTING CEILING TO REMAIN, PATCH/REPAIR AND PAINT.
00 335	DEMOLISH PORTION OF (E) CEILING FOR (N) HVAC SOFFIT.
09 204	NEW ACT SOFFIT WITH GYP. BD. BULKHEAD. SEE DETAIL 19/A10.9.2.
09 205	PATCH/REPAIR AND PAINT (E) GLUE-ON ACOUSTICAL TILES.
11 501	RE-INSTALL (E) PROJECTOR IN (N) CEILING, SEE DETAIL 19/A10.9.2
12 202	RE-INSTALL BLINDS. BLINDS TO BE INSTALLED AFTER NEW CEILING INSTALL. COORDINATE WITH ARCHITECT FOR INSTALLATION LOCATION/INSTRUCTIONS.
23 302	NEW EXHAUST FANS, ROOF MOUNT. CONTRACTOR TO PATCH, REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE MECH. DWGS, SEE DETAIL 7/A10.7.1.
26 501	NEW LIGHT FIXTURE TYP. SEE ELEC. DWGS.

GENERAL NOTES

GENERAL
1. ALL HEIGHTS ARE REFERENCED FROM FINISH FLOOR ELEVATIONS = 0'-0"
2. ACCESS DOORS TO BE INSTALLED TO SERVICE EQUIPMENT SHOWN IN CONTRACT DOCUMENTS. EXACT NUMBER AND LOCATION OF ACCESS PANELS IS NOT SHOWN. SEE DETAIL 21/A10.9.2.
3. PROVIDE ACCESS PANELS TO ENCLOSED AREAS ABOVE GYPSUM BOARD CEILINGS. CENTER AND ALIGN TO LIGHT FIXTURES, AND OTHER CEILING FIXTURES PER PLAN.
4. CEILING SYSTEM SHOULD BE CENTERED WITHIN EACH ROOM AS WELL AS ALIGNED WITH THE STRUCTURAL GRID, U.O.N.
5. CEILING SYSTEM SHALL BE COORDINATED WITH THE LIGHTING & ELECTRICAL PLANS.
6. PAINT GYP. BD. CEILINGS AND SOFFITS P-1 U.O.N. (PAINT FINISH TO BE SAME AT FACE AND UNDERSIDE OF SOFFITS.) REFER TO ROOM FINISH SCHEDULE FOR COLOR SELECTIONS.
7. PAINT EXPOSED CEILINGS AND EQUIPMENT PER FINISH SCHEDULE.
8. NO EXPOSED NAILS OR SCREWS ARE ALLOWED.
9. REMOVE EXISTING PROJECTORS AS NEEDED FOR INSTALLATION OF NEW CEILINGS/SOFFITS, THEN RE-INSTALL PROJECTORS AFTER INSTALLATION OF NEW CEILINGS/SOFFITS.

EQUIPMENT
1. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SUPPORTS & BRACING. ELECTRICAL DEVICES ARE SHOWN FOR LOCATION IN RELATION TO LIGHT FIXTURES AND MECHANICAL DIFFUSERS IN SELECT AREAS. FOR FIXTURE INFORMATION SEE ELECTRICAL DRAWINGS.
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- NEW 2x2 IN-LAY ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A10.9.2 & A10.9.3 FOR DETAILS.
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- NURSE / A02 / (+) 8'-0" — ROOM TAG (+) 8'-0" = CEILING HEIGHT OF ROOM, U.O.N.

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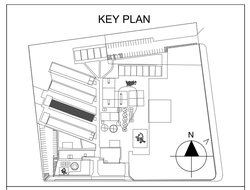
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



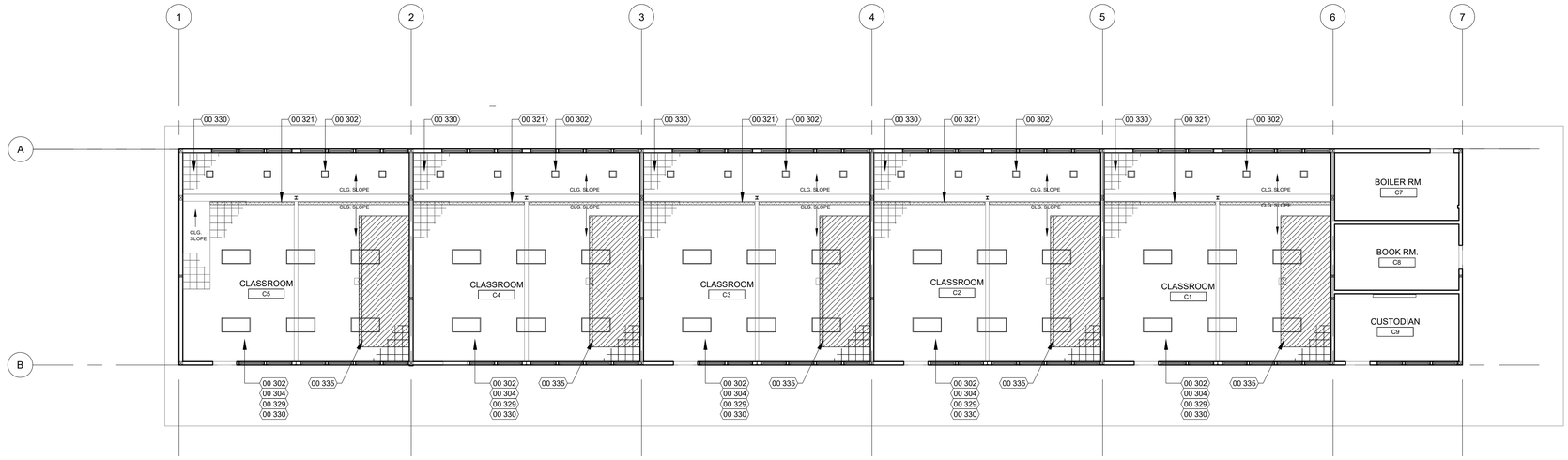
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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SAN JOSE, CA 95127

DEMO & NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING B

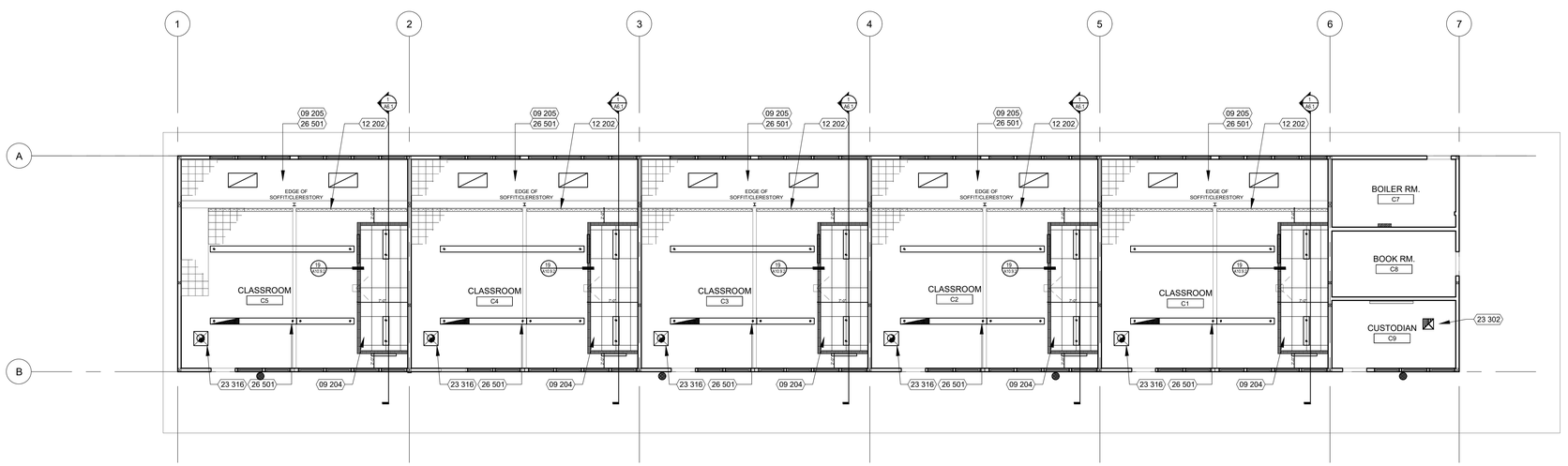
Date 04/24/2023	Project Number 22027
Application Number 01-120632	Drawing Number A3.4
Drawn KT / Checked CD	



N

DEMO & NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING C

1/8" = 1'-0" 8



N

DEMO & NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING C

1/8" = 1'-0" 10

KEY NOTES

NUMBER	NOTE
00 302	REMOVE AND REPLACE ALL EXISTING LIGHT FIXTURES , REFER TO ELEC. DWGS. FOR EXTENT OF WORK. VERIFY QUANTITIES AND LAYOUT IN FIELD.
00 304	REMOVE AND REPLACE (E) MECHANICAL/PLUMBING SYSTEMS & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF WORK.
00 321	REMOVE (E) BLINDS W/TRACKS WITHOUT DAMAGING AND STORE IN SAFE AREA AS NOT TO GET DAMAGED. BLINDS TO BE RE-INSTALLED AFTER NEW CEILING INSTALL. COORDINATE WITH ARCHITECT FOR INSTALLATION LOCATION/INSTRUCTIONS.
00 329	REMOVE (E) PROJECTOR AND SALVAGE FOR RE-INSTALLATION.
00 330	EXISTING CEILING TO REMAIN, PATCH/REPAIR AND PAINT.
00 335	DEMOLISH PORTION OF (E) CEILING FOR (N) HVAC SOFFIT.
09 204	NEW ACT SOFFIT WITH GYP. BD. BULKHEAD, SEE DETAIL 19/A10.9.2.
09 205	PATCH/REPAIR AND PAINT (E) GLUE-ON ACOUSTICAL TILES.
11 501	RE-INSTALL (E) PROJECTOR IN (N) CEILING, SEE DETAIL 18/A10.9.2.
12 202	RE-INSTALL BLINDS. BLINDS TO BE INSTALLED AFTER NEW CEILING INSTALL. COORDINATE WITH ARCHITECT FOR INSTALLATION LOCATION/INSTRUCTIONS.
23 302	NEW EXHAUST FANS. CONTRACTOR TO PATCH, REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE MECH. DWGS, SEE DETAIL 7/A10.7.1.
23 316	NEW ROOF MOUNTED RELIEF HOOD PER MECH. DWGS. CONTRACTOR TO PATCH/REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT, SEE DETAIL 7/A10.7.1.
26 501	NEW LIGHT FIXTURE TYP., SEE ELEC. DWGS.

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5. CEILING SYSTEM SHALL BE COORDINATED WITH THE LIGHTING & ELECTRICAL PLANS.
6. PAINT GYP. BD. CEILINGS AND SOFFITS P-1 U.O.N. (PAINT FINISH TO BE SAME AT FACE AND UNDERSIDE OF SOFFITS.) REFER TO ROOM FINISH SCHEDULE FOR COLOR SELECTIONS
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- LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS
- MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
- NURSE / A02 / (+) 8'-0" — ROOM TAG (+) 8'-0" = CEILING HEIGHT OF ROOM, U.O.N.

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LICENSED ARCHITECT — BRIAN F. WATTENBURG — No. C 30345 — Ren. 9/30/23 — STATE OF CALIFORNIA — DATE SIGNED: 04/24/2023	

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NO.	REMARKS	DATE

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	DATE
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○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



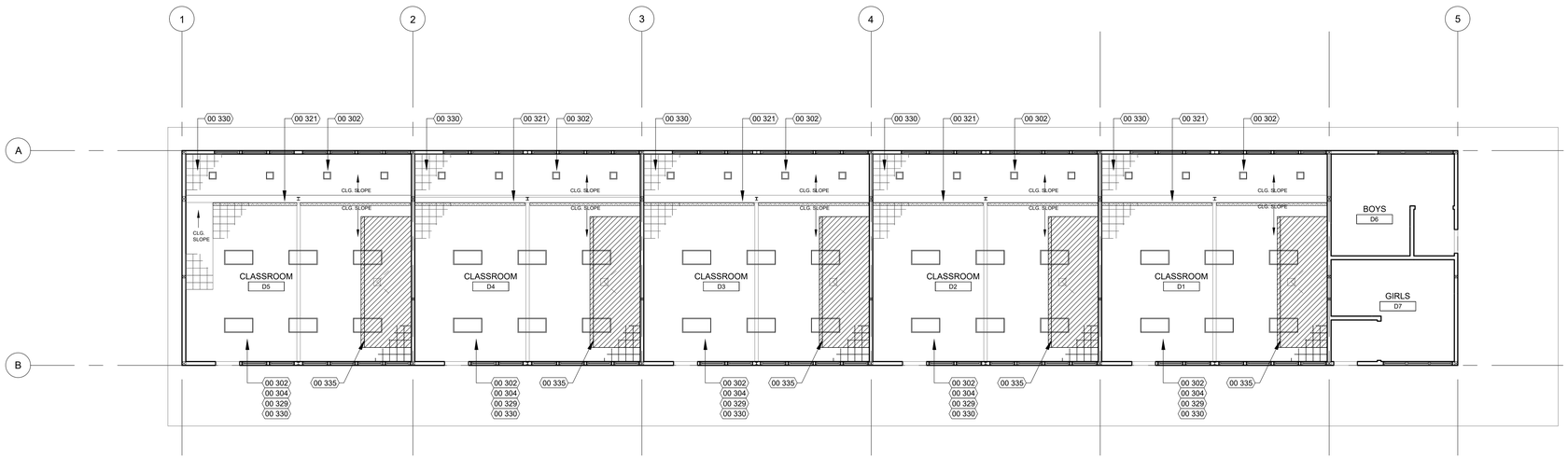
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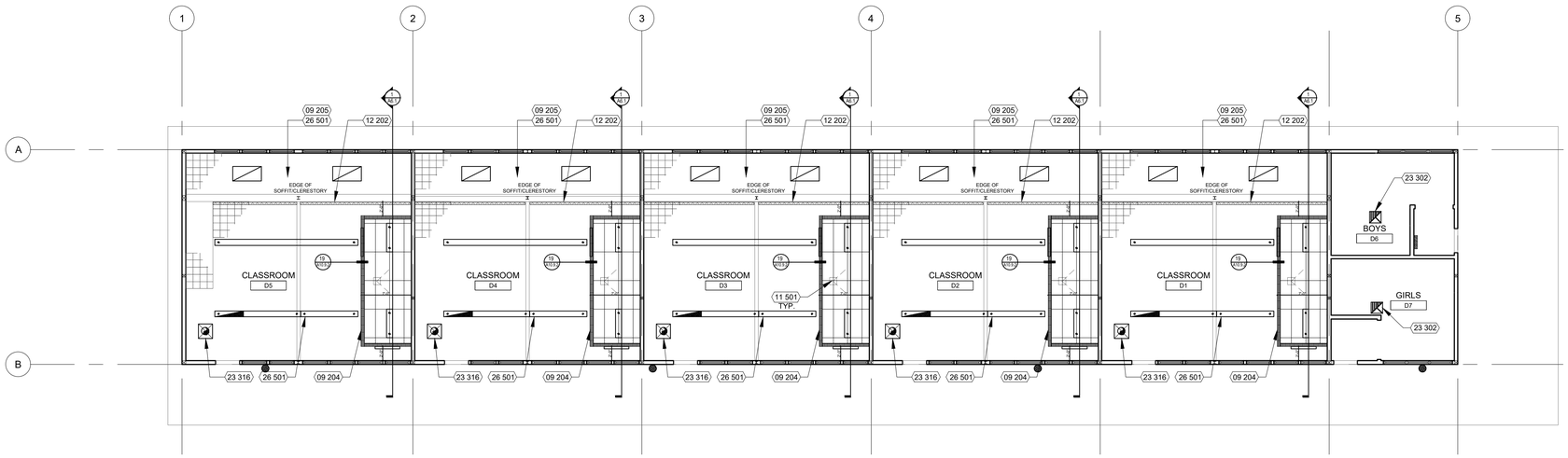
DEMO & NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING C

Date 04/24/2023	Project Number 22027
Application Number 01-120632	Drawing Number A3.5
Drawn KT	Checked CD



DEMO REFLECTED CEILING PLAN - CLASSROOM - BUILDING D

1/8" = 1'-0" 8



NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING D

1/8" = 1'-0" 10

KEY NOTES

NUMBER	NOTE
00 302	REMOVE AND REPLACE ALL EXISTING LIGHT FIXTURES , REFER TO ELEC. DWGS. FOR EXTENT OF WORK. VERIFY QUANTITIES AND LAYOUT IN FIELD.
00 304	REMOVE AND REPLACE (E) MECHANICAL/PLUMBING SYSTEMS & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF WORK.
00 321	REMOVE (E) BLINDS W/TRACKS WITHOUT DAMAGING AND STORE IN SAFE AREA AS NOT TO GET DAMAGED. BLINDS TO BE RE-INSTALLED AFTER NEW CEILING INSTALL. COORDINATE WITH ARCHITECT FOR INSTALLATION LOCATION/INSTRUCTIONS.
00 329	REMOVE (E) PROJECTOR AND SALVAGE FOR RE-INSTALLATION.
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26 501	NEW LIGHT FIXTURE TYP. SEE ELEC. DWGS.
26 502	NEW SURFACE MOUNTED LIGHT FIXTURE, TYP. SEE ELECTRICAL DRAWINGS FOR TYPE AND EXTENT OF WORK.

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9. REMOVE EXISTING PROJECTORS AS NEEDED FOR INSTALLATION OF NEW CEILINGS/SOFFITS, THEN RE-INSTALL PROJECTORS AFTER INSTALLATION OF NEW CEILINGS/SOFFITS.

EQUIPMENT
1. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SUPPORTS & BRACING. ELECTRICAL DEVICES ARE SHOWN FOR LOCATION IN RELATION TO LIGHT FIXTURES AND MECHANICAL DIFFUSERS IN SELECT AREAS. FOR FIXTURE INFORMATION SEE ELECTRICAL DRAWINGS.
2. SEE MECHANICAL AND PLUMBING DRAWINGS FOR DIFFUSERS AND PIPE CHASES.
3. SEE FIRE PROTECTION DETAILS FOR PENETRATIONS THROUGH RATED WALLS, WHERE OCCURS.
4. SINGLE LIGHT FIXTURES IN GYP. BD. CEILINGS SHALL BE CENTERED IN ROOM.
5. LIGHT FIXTURE DIMENSIONS ARE TO CENTERLINE OF FIXTURE OR GROUP OF FIXTURES, U.O.N.
6. CENTER AND ALIGN SMOKE DETECTOR, DIFFUSERS, GRILLS, AND SIMILAR ITEMS IN CEILING TILE GRID AND ALIGN WITH LIGHT FIXTURES, SEE DETAIL 16/A10.9.2.
7. SEE ELECTRICAL DRAWINGS FOR LOW LEVEL EXIT SIGN LOCATIONS.

DEMOLITION
1. ALL DEMOLITION WORK SHALL COMPLY WITH CFC CHAPTER 14 OF THE FIRE CODE FOR SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 34 OF THE BUILDING CODE FOR EXISTING STRUCTURES.
2. ALL DIMENSIONS SHOWN ON THIS SHEET ARE EXISTING APPROXIMATE. VERIFY IN FIELD.
3. VERIFICATION OF EXISTING CONDITIONS:
   A. IN THE REMODELING OF AN EXISTING BUILDING CERTAIN ASSUMPTIONS HAVE BEEN MADE REGARDING EXISTING CONDITIONS. SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL SUMS OF MONEY, OR DESTROYING OTHERWISE SERVICEABLE PORTIONS OF THE BUILDING. NOTIFY THE ARCHITECT IMMEDIATELY FOR GUIDANCE ON HOW TO PROCEED WHEN CONDITIONS ARE DISCOVERED DURING CONSTRUCTION WHICH DIFFER FROM THOSE INDICATED ON THE DRAWINGS.

LEGEND

- (E) CEILING SYSTEM TO BE REMOVED
- (E) TO REMAIN 2X2 SUSPENDED CEILING ACOUSTICAL CEILING PANEL SYSTEM. PATCH AND REPAIR AS NEEDED WITH (N) LIGHT FIXTURE INSTALLATION
- (E) TO REMAIN GYPSUM WALLBOARD CEILING
- (E) LIGHT FIXTURE TO BE REMOVED
- NEW 2x4 IN-LAY ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A10.9.2 & A10.9.3 FOR DETAILS.
- LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS
- MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
- NURSE / A02 / (+) 8'-0" — ROOM TAG (+) 8'-0" = CEILING HEIGHT OF ROOM, U.O.N.

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Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT — BRIAN P. WHITMORE — No. C 30345 — Ren. 9/30/23 — STATE OF CALIFORNIA — DATE SIGNED: 04/24/2023	

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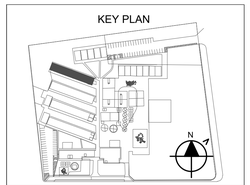
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
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○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



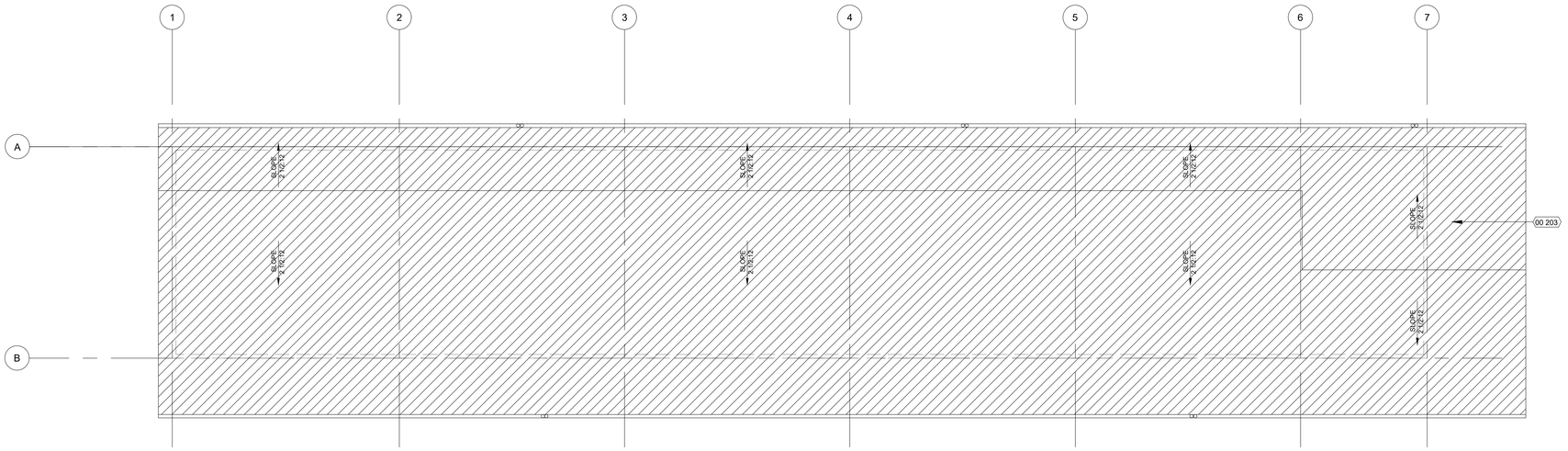
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

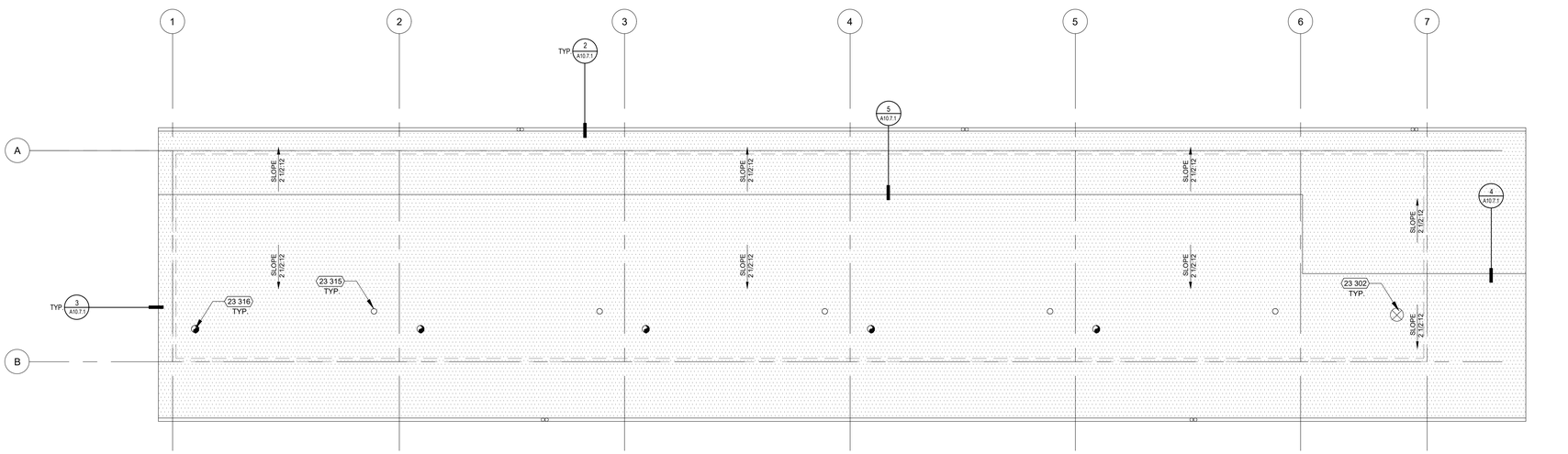
DEMO & NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING D

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A3.6
Drawn / Checked	
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N

DEMO ROOF PLAN - CLASSROOM - BUILDING C 1/8" = 1'-0" 5



N

NEW ROOF PLAN - CLASSROOM - BUILDING C 1/8" = 1'-0" 10

KEY NOTES

NUMBER	NOTE
00 203	DEMOLISH (E) ROOF SYSTEM AND GUTTERS TO ALLOW FOR NEW ROOF AND HVAC EQUIPMENT PENETRATION. COORDINATE WITH MECHANICAL DRAWINGS FOR DEMOLITION AND NEW EQUIPMENT LOCATIONS.
23 302	NEW EXHAUST FANS. CONTRACTOR TO PATCH, REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT. SEE MECH. DWGS. SEE DETAIL 7/A10.7.1.
23 315	NEW ROOF PENETRATION FOR MECHANICAL SYSTEM, SEE DETAILS 6/A10.7.1.
23 316	NEW ROOF MOUNTED RELIEF HOOD PER MECH. DWGS. CONTRACTOR TO PATCH/REPAIR CEILING AND ROOF PENETRATIONS TO MATCH ADJACENT, SEE DETAIL 7/A10.7.1.

GENERAL NOTES

GENERAL
1. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. ALL ROOF MATERIALS TO BE CLASS A RATED.
3. MINIMUM ROOF INSULATION R-30 ALL LOCATIONS OF THE ROOF.
4. MINIMUM THICKNESS OF ROOF INSULATION TO BE 6" AT LOW POINT OF ROOF DRAIN SUMP.
5. FLASHING TERMINATIONS SHALL HAVE WATER-TIGHT SHEET METAL CLOSURES WITH WATERPROOF SELF-ADHERED MEMBRANE UNDERLAYMENT
6. NAILER THICKNESS SHALL MATCH ADJACENT INSULATION THICKNESS WITHIN 1/4" TOLERANCE.

SLOPES AND DRAINAGE
1. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS, ETC.) SHALL BE 1/4" / FT. SLOPE MINIMUM AS INDICATED AT ALL ROOF AREAS, INCLUDING VALLEYS, AND STEEPER AS REQUIRED TO MEET VALLEY SLOPE CRITERIA.
2. BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
3. MINIMUM ROOF SLOPE IN VALLEYS IS 1/4" / FT. ADJUST SLOPE OF CRICKETS TO PROVIDE MINIMUM SLOPE AT ALL LOCATIONS OF ROOF. TO PREVENT PONDING, DIRECT ALL ROOF WATER TO DRAINS.
4. TAPER INSULATION UP FROM DRAIN IN SUMPS MINIMUM OF 1/4" / FT. BUT NOT TO EXCEED 1" /FT. PROVIDE TAPERED FILL TO CONFORM THE SUMP INSULATION TO THE THICKNESS OF INSULATION IN THE FIELD OF THE ROOF.
5. PROVIDE TAPERED CRICKET ON THE HIGH SIDE OF PENETRATIONS WIDER THAN 24".
6. MINIMUM SLOPE 1/4"/FT TO DRAIN AT ALL LOCATIONS.

EQUIPMENT
1. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND OTHER FACILITY SERVICES DRAWINGS FOR EQUIPMENT, DUCTWORK, PENETRATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.
2. PENETRATIONS, CURBS AND TERMINATIONS, INCLUDING THOSE FOR MECHANICAL, ELECTRICAL, PLUMBING AND OTHER FACILITY SERVICES SHALL PROVIDE MINIMUM 8" VERTICAL BASE FLASHING ELEVATION ABOVE THE TOP OF THE ADJACENT ROOF SURFACE (NOT STRUCTURAL DECK).
3. EQUIPMENT SUPPORT PENETRATIONS SHALL BE ROUND SHAPES UNLESS SPECIFICALLY DETAILED OTHERWISE.
4. FOR CONDUIT THROUGH ROOF DETAIL, SEE ELECTRICAL DRAWINGS
5. FOR VENT PIPE AT MODIFIED BITUMINOUS ROOFING, SEE DETAIL 6/A10.7.1

LEGEND

(E) ROOFING TO BE REMOVED

(N) MODIFIED BITUMINOUS ROOFING, SEE DETAIL 1/A10.7.1.

(E) EXTERIOR WALLS BELOW

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Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT SETRAK P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023	

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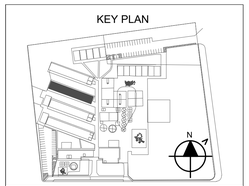
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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SAN JOSE, CA 95127

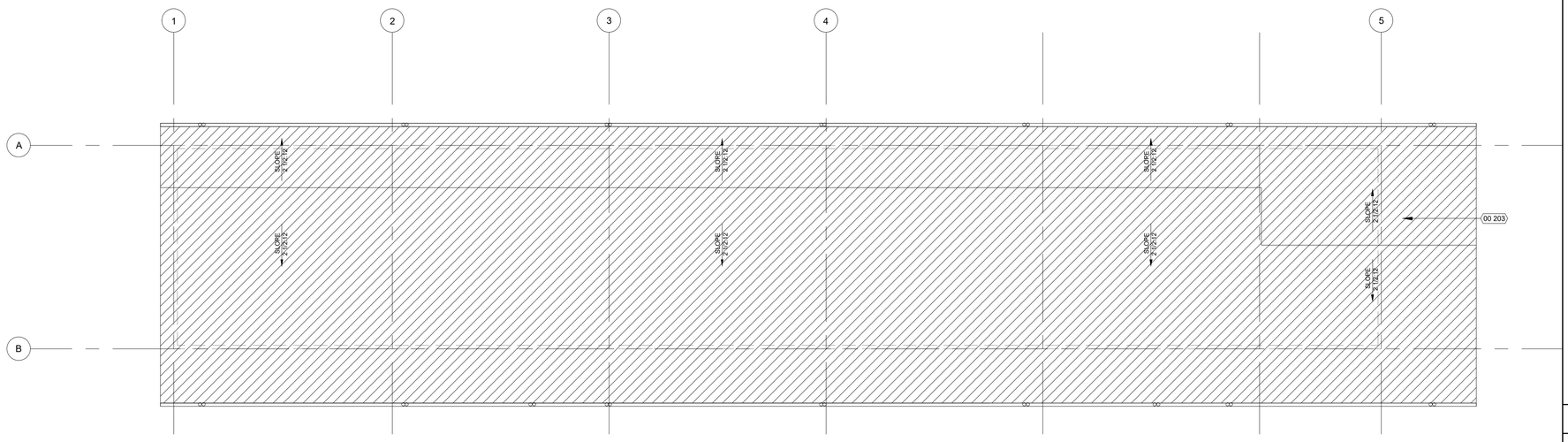
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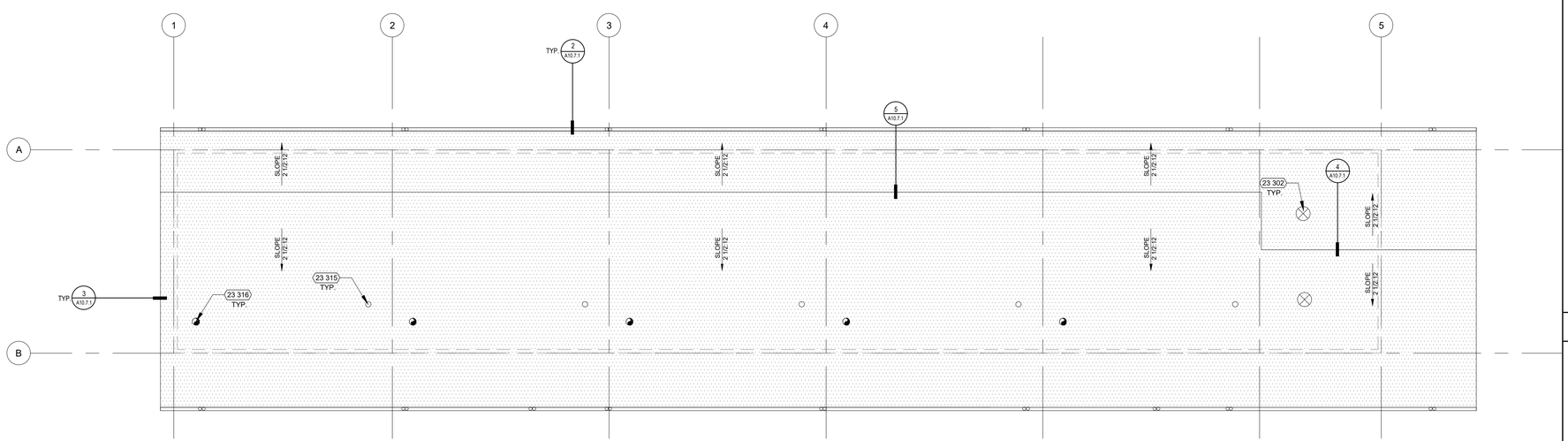
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DEMO & NEW ROOF PLAN - CLASSROOM - BUILDING C

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A4.5
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KT / CD	



DEMO ROOF PLAN - CLASSROOM - BUILDING D | 1/8" = 1'-0" | 5



DEMO & NEW ROOF PLAN - CLASSROOM - BUILDING D | 1/8" = 1'-0" | 10

KEY NOTES

NUMBER	NOTE
00 203	DEMOLISH (E) ROOF SYSTEM AND GUTTERS TO ALLOW FOR NEW ROOF AND HVAC EQUIPMENT PENETRATION. COORDINATE WITH MECHANICAL DRAWINGS FOR DEMOLITION AND NEW EQUIPMENT LOCATIONS.
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4. FOR CONDUIT THROUGH ROOF DETAIL, SEE ELECTRICAL DRAWINGS
5. FOR VENT PIPE AT MODIFIED BITUMINOUS ROOFING, SEE DETAIL 6/A10.7.1

LEGEND

(E) ROOFING TO BE REMOVED

(N) MODIFIED BITUMINOUS ROOFING, SEE DETAIL 1/A10.7.1.

(E) EXTERIOR WALLS BELOW

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Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

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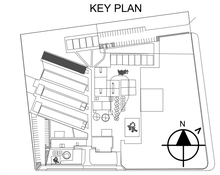
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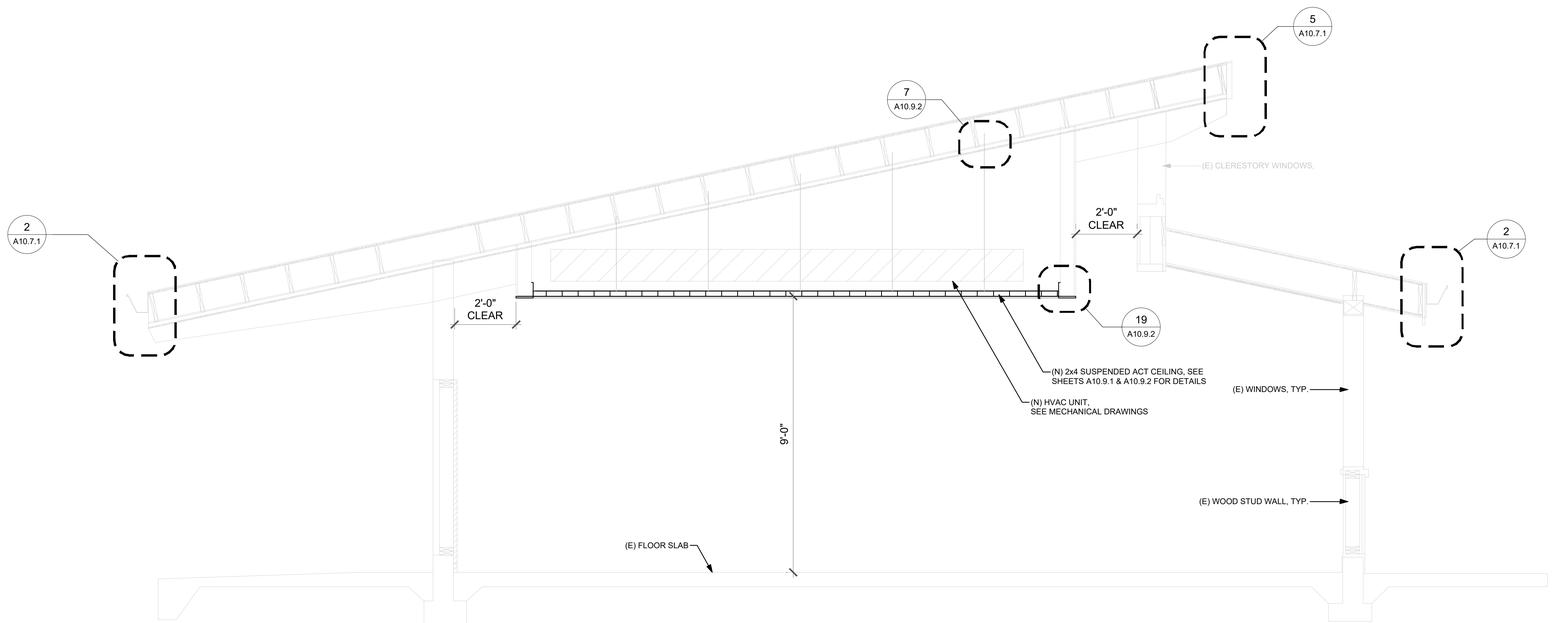
CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

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DEMO & NEW ROOF PLAN - CLASSROOM - BUILDING D

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A4.6
Drawn KT	Checked CD



TYP. CLASSROOM BUILDING SECTION 1/8" = 1'-0" 1

KEY NOTES

NUMBER	NOTE

GENERAL NOTES

1. SEE REFLECTED CEILING PLANS FOR CEILING INFORMATION.
2. SEE FLOOR PLAN FOR WALL TYPES.

LEGEND

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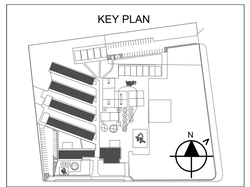
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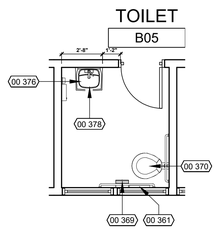
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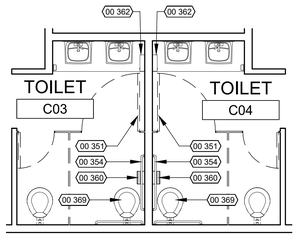
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TYPICAL CLASSROOM LONGITUDINAL SECTION

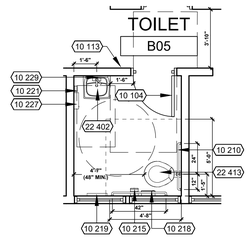
Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A6.1
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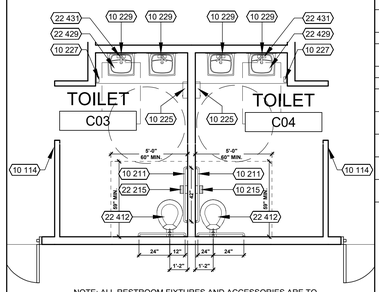
ENLARGED DEMO PLAN - STAFF ALL-GENDER RESTROOM B05 | 1/4" = 1'-0" | 6



ENLARGED DEMO PLAN - KINDERGARTEN RESTROOM C03 & C04 | 1/4" = 1'-0" | 1



ENLARGED NEW PLAN - STAFF ALL-GENDER RESTROOM B05 | 1/4" = 1'-0" | 7



NOTE: ALL RESTROOM FIXTURES AND ACCESSORIES ARE TO BE INSTALLED FOR AGES 5-8 PER THE SCHEDULE ON A10.10.2

ENLARGED NEW PLAN - KINDERGARTEN RESTROOM C03 & C04 | 1/4" = 1'-0" | 2

KEY NOTES

NUMBER	NOTE
00 351	DEMOLISH (E) TOILET DOORS AND PARTITIONS FOR NEW WORK.
00 354	REMOVE (E) GRAB BARS, SALVAGE FOR RE-INSTALLATION.
00 360	REMOVE (E) JUMBO TOILET PAPER DISPENSER AND RETURN TO DISTRICT.
00 361	REMOVE (E) SEAT COVER DISPENSER AND SALVAGE FOR RE-INSTALLATION
00 362	REMOVE (E) PAPER TOWEL DISPENSER AND SALVAGE FOR RE-INSTALLATION
00 369	REMOVE (E) TOILET AND SALVAGE FOR RE-INSTALLATION. REMOVE TOILET SEAT AND RETURN TO DISTRICT.
00 370	REMOVE (E) TOILET, SALVAGE FOR RE-INSTALLATION.
00 376	REMOVE (E) LAVATORY, SALVAGE FOR RE-INSTALLATION.
00 378	REMOVE (E) OBSTRUCTIONS UNDER SINK TO PROVIDE WALL PER SCHEDULE ON A10.10.2.
10 104	(E) DOOR SIGNAGE COMPLIANT PER 11/A10.10.1.
10 107	(N) DOOR SIGNAGE COMPLIANT PER 11/A10.10.1.
10 113	(N) WALL SIGNAGE COMPLIANT PER 9/A10.10.1.
10 114	(N) WALL SIGNAGE COMPLIANT PER 10/A10.10.1.
10 202	(N) TOILET PARTITIONS INSTALLED AT COMPLIANT HEIGHT AND LOCATION PER SCHEDULE ON A10.10.2.
10 203	(N) TOILET PARTITION DOOR INSTALLED AT COMPLIANT HEIGHT AND LOCATION PER SCHEDULE ON A10.10.2.
10 210	(E) GRAB BAR COMPLIANT PER SCHEDULE ON A10.10.2.
10 211	REINSTALL (E) GRAB BARS AT COMPLIANT HEIGHT FOR AGES 5-8 PER SCHEDULE ON A10.10.2.
10 215	(N) TOILET PAPER DISPENSER INSTALLED AT COMPLIANT HEIGHT AND LOCATION PER SCHEDULE A10.10.2.
10 218	(N) SANITARY NAPKIN DISPOSAL INSTALLED AT COMPLIANT HEIGHT AND LOCATION PER SCHEDULE A10.10.2.
10 219	REINSTALL (E) SEAT COVER DISPENSER AT COMPLIANT HEIGHT PER SCHEDULE ON A10.10.2
10 221	(E) SOAP DISPENSER COMPLIANT PER SCHEDULE ON A10.10.2.
10 225	REINSTALL (E) PAPER TOWEL DISPENSER AT COMPLIANT HEIGHT PER SCHEDULE ON A10.10.2
10 227	(E) PAPER TOWEL DISPENSER COMPLIANT PER SCHEDULE ON A10.10.2.
10 229	(E) MIRROR COMPLIANT PER SCHEDULE ON A10.10.2.
22 402	REINSTALL (E) LAVATORY AT COMPLIANT LOCATION PER SCHEDULE ON TO PROVIDE REQUIRED DOOR CLEARANCE AND PER SCHEDULE A10.10.2.
22 412	REINSTALL (E) TOILET WITH (N) SEAT AT COMPLIANT LOCATION FOR AGES 5-8 PER SCHEDULE ON A10.10.2.
22 413	REINSTALL (E) TOILET AT COMPLIANT LOCATION PER SCHEDULE ON A10.10.2.
22 429	INSULATE EXPOSED LAVATORY PIPES OR OTHERWISE PROTECT AGAINST CONTACT.
22 431	(E) LAVATORY AT COMPLIANT HEIGHT WITH KNEE CLEARANCE PER SCHEDULE ON A10.10.2.

GENERAL NOTES

GENERAL
1. DIMENSIONS
   A. ALL MINIMUM CLEARANCE DIMENSIONS FOR PLUMBING FIXTURES ARE FROM FACE OF WALL FINISH TO CENTER OF FIXTURE, U.O.N.
   B. ALL DIMENSIONS MARKED "MIN. CLR" OR "CLR." ARE TO/ FROM FACE OF WALL FINISH (F.O.F.)
   C. CONTRACTOR TO REPORT ANY FIELD-VERIFIED DISCREPANCIES WITH THE DIMENSIONS NOTED ON THIS SHEET TO THE ARCHITECT.
2. PATCH/REPAIR TILE AND GYPBOARD AS NEEDED TO MATCH EXISTING ADJACENT AT ANY LOCATIONS WHERE FIXTURES, ACCESSORIES, OR PARTITIONS HAVE BEEN REMOVED OR RELOCATED.
3. PROVIDE GLASSMAT BACKER BOARD AT ALL TILED WALLS AND WALLS WITHIN 48" OF ANY PLUMBING FIXTURE.
4. ALL DRINKING FOUNTAIN ALCOVES TO BE FINISHED WITH WATER RESISTANT WALL MATERIAL. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS.
5. ALL FLOOR SLOPES IN RESTROOMS ARE NOT TO EXCEED 1:48 IN ANY DIRECTION.

ACCESSORIES
1. ALL RESTROOM FIXTURES AND ACCESSORIES MOUNTING HEIGHTS AND LOCATIONS TO USE DIMENSIONS PER A10.10.1.
2. FOR TYPICAL RESTROOM ACCESSORY MOUNTING HEIGHTS, ACCESSIBLE DIMENSIONS, SEE SHEET A10.10.1
3. TOILET ACCESSORIES LOCATED ON OR WITHIN WALLS SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE (CBC SECTION 1210.2.2)
4. PLUMBING FIXTURES TO HAVE SOLID BLOCKING AS REQUIRED BY CODE, SEE DETAIL

STALLS AND PARTITIONS
1. ALL ACCESSIBLE TOILET PARTITION DOORS TO BE 36" WIDE MINIMUM AND ALL NON-ACCESSIBLE TOILET PARTITION DOORS SHALL NOT BE LESS THAN 2'-2".
2. PARTITION STILE WIDTHS SHALL NOT EXCEED 4".
3. FOR PARTITION DETAILS, SEE DETAIL 21/A10.10.1.
4. INSTALL (1) COAT HOOK CENTERED ON THE BACK OF EVERY STALL DOOR, 40" A.F.F. AT ACCESSIBLE STALLS AND 72" A.F.F. AT NON-ACCESSIBLE STALLS.
5. FLUSH VALVE TO BE LOCATED AT WIDE SIDE OF STALL/ SPACE.

LEGEND

30" x 48" ACCESSIBLE CLEAR SPACE

60" DIAMETER ACCESSIBLE CLEAR SPACE

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023	

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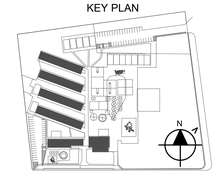
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

ENLARGED TOILET ROOM PLANS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A7.1
Drawn: KT	Checked: CD

CEILING MATERIAL LEGEND

SYMBOL	MATERIAL	BASIS OF DESIGN MANUFACTURER	STYLE/COLOR
ACT-1	2X4 SUSPENDED ACOUSTICAL CEILING PANELS	ARMSTRONG	ULTIMA/WHITE
ACT-2	2X2 SUSPENDED ACOUSTICAL CEILING PANELS	ARMSTRONG	ULTIMA/WHITE
GB	GYPSUM BOARD SOFFITS & BULKHEAD	GEORGIA PACIFIC	PAINT P-1
P-1	PAINT - EGGSHELL SHEEN	SHERWIN WILLIAMS	0053 PORCELAIN

WALL MATERIAL LEGEND

SYMBOL	MATERIAL	BASIS OF DESIGN MANUFACTURER	STYLE/COLOR
P-1	PAINT - EGGSHELL SHEEN	SHERWIN WILLIAMS	0053 PORCELAIN
T-1	PORCELAIN TILE	TBD	TBD

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	CEILING	COMMENTS
A01	MULTI-PURPOSE	P-1	PAINT EXISTING GLUE-UP TILES P-1
A02	MECHANICAL ROOM	P-1	PAINT EXISTING GLUE-UP TILES P-1
A03	TOILET	P-1	PAINT EXISTING GLUE-UP TILES P-1
A04	KITCHEN	P-1	PAINT EXISTING GLUE-UP TILES P-1
A05	STAGE	P-1	PAINT EXISTING GLUE-UP TILES P-1
A06	SUPPLY	P-1	PAINT EXISTING GLUE-UP TILES P-1
A07	WALK-IN FRIG.	P-1	PAINT EXISTING GLUE-UP TILES P-1
A08	HALL	P-1	PAINT EXISTING GLUE-UP TILES P-1
A09	WORK AREA	P-1	PAINT EXISTING GLUE-UP TILES P-1
K1	KINDERGARTEN	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
K2	KINDERGARTEN	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
101	RECEPTION	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B01	PRINCIPAL	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B02	OFFICE	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B03	CLOSET	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B04	TOILET	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
B05	TOILET	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
B06	NURSE	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B10	PRINCIPAL	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B10	LOBBY	P-1	PAINT EXISTING GLUE-UP TILES P-1
A1	TEACHER'S LOUNGE	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
A2	RSP	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
A3	LIBRARY	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
A4	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
A5	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
A6	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
A7	MEN	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
A8	CUSTODIAN	P-1	PAINT EXISTING GLUE-UP TILES P-1
A9	WOMEN	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
B1	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B2	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B3	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B4	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B5	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B6	BOYS	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
B7	GIRLS	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
C1	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C2	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C3	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C4	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C5	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C7	BOILER RM.	P-1	PAINT EXISTING GLUE-UP TILES P-1
C8	BOOK RM.	P-1	PAINT EXISTING GLUE-UP TILES P-1
C9	CUSTODIAN	P-1	PAINT EXISTING GLUE-UP TILES P-1
D1	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
D2	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
D3	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
D4	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
D5	CLASSROOM	ACT-1, GB, P-1	PAINT EXISTING GLUE-UP TILES P-1. PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
D6	BOYS	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
D7	GIRLS	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS

NOTES:
1. ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 3-8 & 10AND TITLE 19 C.C.R.
2. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL RESTROOMS, MOP SINK AREAS AND WALL ADJACENT TO ANY SINK OR DRINKING FOUNTAIN WHERE GYPSUM BOARD IS SCHEDULED.
3. DO NOT INSTALL MOISTURE RESISTANT GYPSUM BOARD AT CEILING PLANES.
4. THINSET CERAMIS WALL TILE OVER STUD FRAMING TO BE OVER ½" MOISTURE RESISTANT GYPSUM BOARD
5. CERAMIC TILE AT FLOORS OVER DEPRESSED SLABS WITH FLOOR DRAINS SHALL BE FULL SET

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IDENTIFICATION STAMP
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APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT

LICENSED ARCHITECT
BRYAN P. WHITMORE
No. C 30345
Ren. 9/30/23
STATE OF CALIFORNIA
DATE SIGNED: 04/24/2023

ENGINEER

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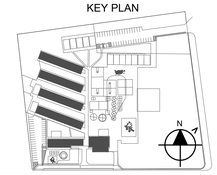
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

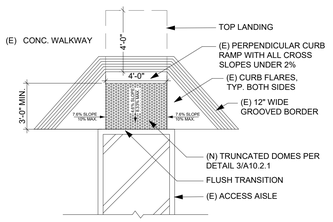
CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

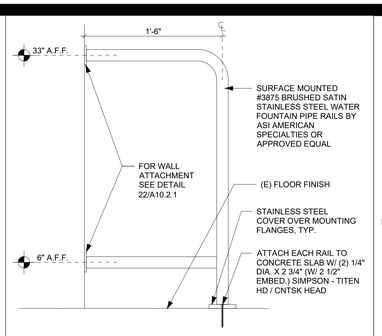
2851 GAY AVE.,
SAN JOSE, CA 95127

ROOM FINISH SCHEDULE

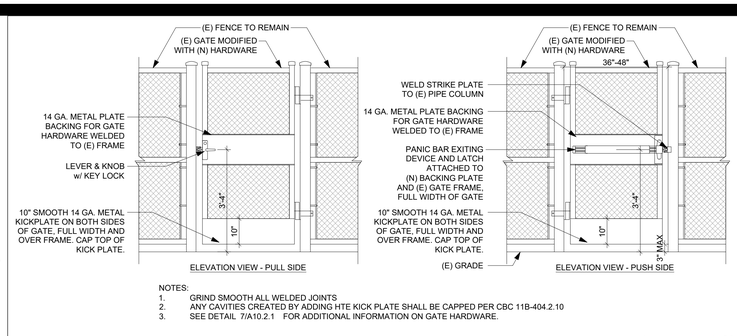
Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A9.1
Drawn: KT	Checked: CD



CURB RAMP 1 1/2" = 1'-0" 26

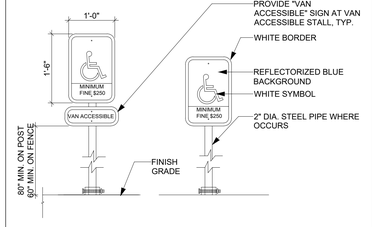


DRINKING FOUNTAIN RAIL 1 1/2" = 1'-0" 21



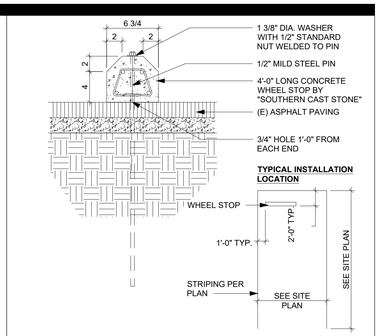
NOTES:
1. GRIND SMOOTH ALL WELDED JOINTS
2. ANY CAVITIES CREATED BY ADDING HTE KICK PLATE SHALL BE CAPPED PER CBC 11B-404.2.10
3. SEE DETAIL 7/A10.2.1 FOR ADDITIONAL INFORMATION ON GATE HARDWARE.

(E) GATE MODIFICATION DETAIL 1/2" = 1'-0" 11

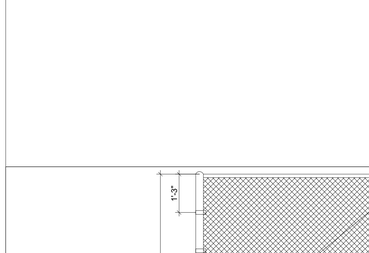


NOTE:
ACCESSIBLE SIGN TO BE LOCATED ON FACE OF COLUMN UNLESS NOTED OTHERWISE

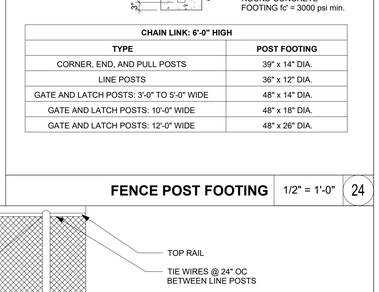
ACCESSIBLE STALL SIGNAGE 3/4" = 1'-0" 6



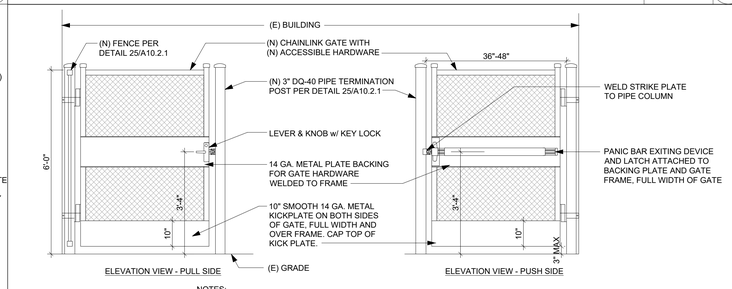
WHEEL STOP 1 1/2" = 1'-0" 1



TOW AWAY SIGNAGE 1" = 1'-0" 27

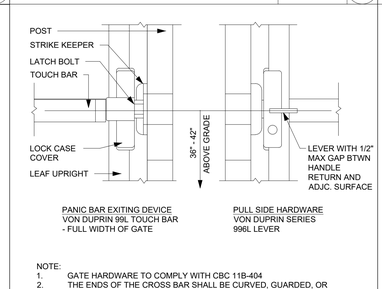


RAILING ATTACHMENT TO WALL 3" = 1'-0" 22



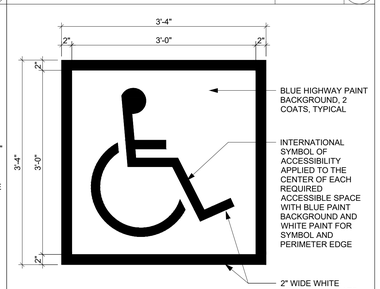
NOTES:
1. GRIND SMOOTH ALL WELDED JOINTS
2. ANY CAVITIES CREATED BY ADDING HTE KICK PLATE SHALL BE CAPPED PER CBC 11B-404.2.10
3. SEE DETAIL 7/A10.2.1 FOR ADDITIONAL INFORMATION ON GATE HARDWARE.

(N) CHAINLINK GATE DETAIL 1/2" = 1'-0" 12

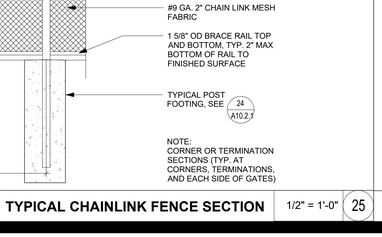


NOTE:
1. GATE HARDWARE TO COMPLY WITH CBC 11B-404
2. THE ENDS OF THE CROSS BAR SHALL BE CURVED, GUARDED, OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

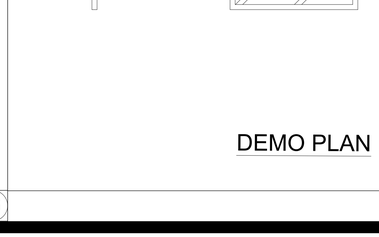
TYP. SWING GATE ACCESSORIES 3" = 1'-0" 7



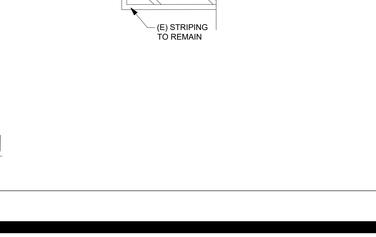
INTERNATIONAL SYMBOL OF ACCESSIBILITY 1" = 1'-0" 2



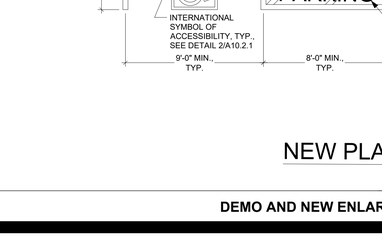
EXT. HI-LO DRINKING FOUNTAIN SECTION AND CLEARANCES 3/4" = 1'-0" 23



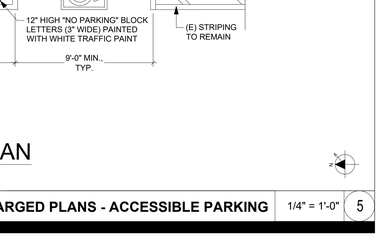
EXTERIOR HI-LO DRINKING FOUNTAIN ELEVATION 3/4" = 1'-0" 18



ENLARGED EXTERIOR HI-LO DRINKING FOUNTAIN PLAN 1/2" = 1'-0" 13

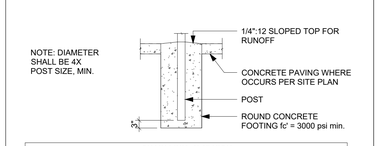


TYPICAL ASPHALT SECTION 1 1/2" = 1'-0" 8



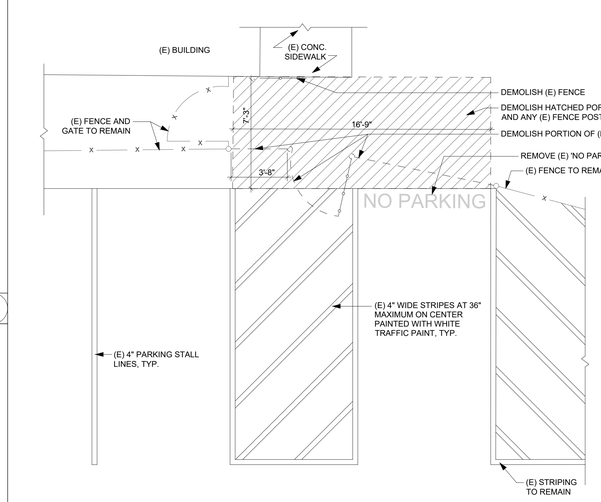
DETECTABLE WARNINGS:
1. **HAZARDOUS VEHICULAR AREAS** DETECTABLE WARNINGS AT HAZARDOUS VEHICULAR AREAS SHALL BE 36 INCHES IN WIDTH.
2. **ONLY APPROVED DSA-AC DETECTABLE WARNING PRODUCTS** AND DIRECTIONAL SURFACES SHALL BE INSTALLED PER THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, CH 5, ARTICLES 2.3, & 4. REFER TO CCR TITLE 24, PART 12, SEC 12 - 11B.705 FOR BLDG/FACILITY ACCESS SPEC'S FOR PRODUCT APPROVAL FOR DETECTABLE WARNING PRODUCTS/DIRECTIONAL SURFACES.
3. **COLOR AND CONTRAST** THE MATL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE. WARNING SURFACES SHALL BE YELLOW AND APPROX. FS 33538 OF FEDERAL STD 595C OR SHALL PROVIDE A 70% MIN VISUAL CONTRAST W/ ADJ. WALKING SURFACES. (HAZARDOUS VEHICULAR AREAS SHALL ONLY ALLOW YELLOW, LISTED ABOVE)

TRUNCATED DOMES 1/4" = 1'-0" 3

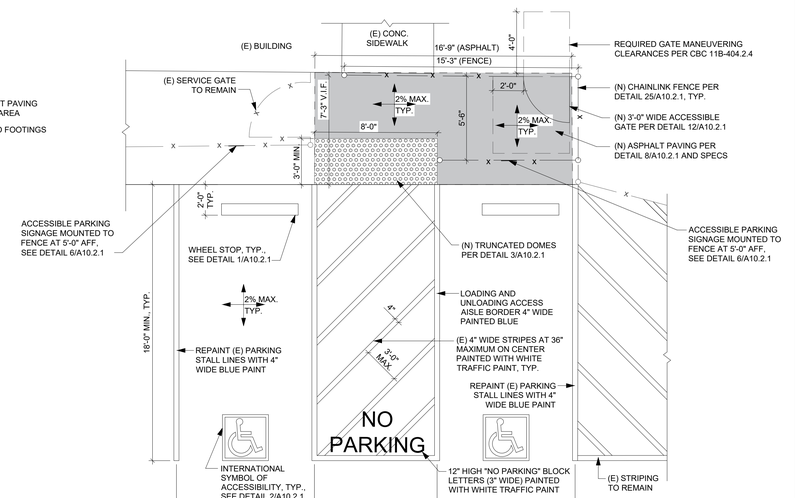


CHAIN LINK: 6'-0" HIGH	
TYPE	POST FOOTING
CORNER, END, AND PULL POSTS	39" x 14" DIA.
LINE POSTS	36" x 12" DIA.
GATE AND LATCH POSTS: 3'-0" TO 5'-0" WIDE	48" x 14" DIA.
GATE AND LATCH POSTS: 10'-0" WIDE	48" x 18" DIA.
GATE AND LATCH POSTS: 12'-0" WIDE	48" x 26" DIA.

FENCE POST FOOTING 1/2" = 1'-0" 24

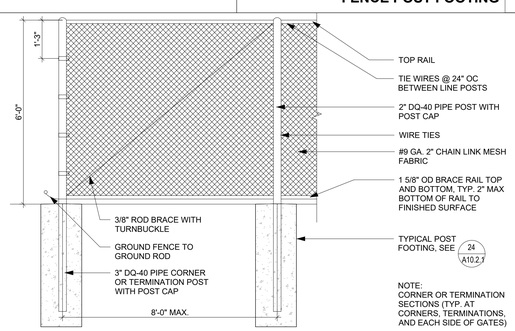


DEMO PLAN



NEW PLAN

DEMO AND NEW ENLARGED PLANS - ACCESSIBLE PARKING 1/4" = 1'-0" 5



NOTE:
CORNER OR TERMINATION SECTIONS (TYP. AT CORNERS, TERMINATIONS, AND EACH SIDE OF GATES)

TYPICAL CHAINLINK FENCE SECTION 1/2" = 1'-0" 25

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRIAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023	

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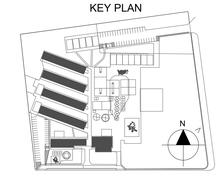
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

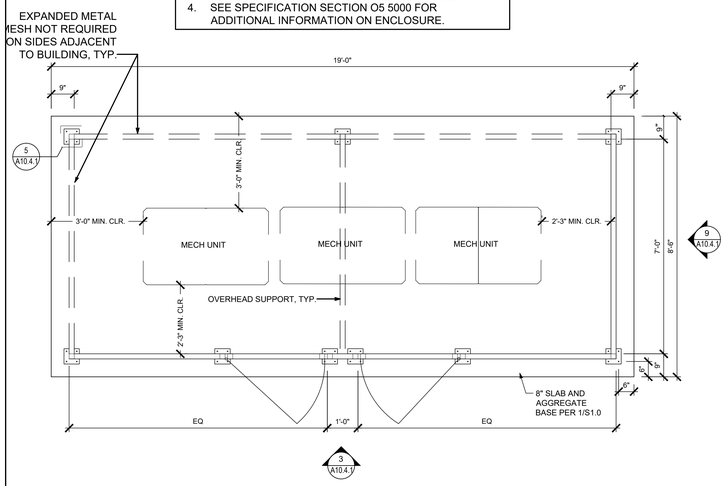
CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

SITE DETAILS

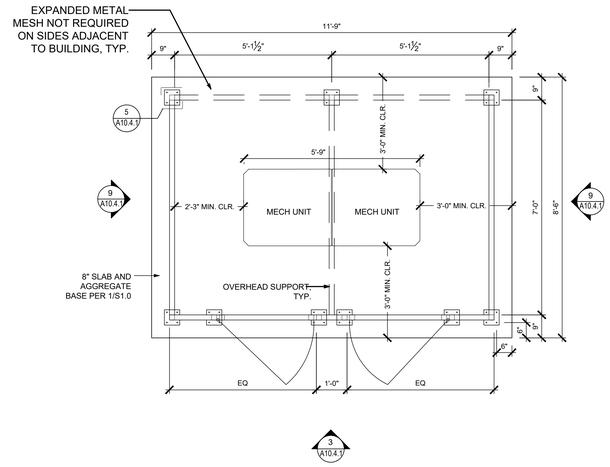
Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A10.2.1
Drawn KT / Checked CD	

NOTE:
1. SEE DETAIL 13/M0.03 FOR MECH UNIT ANCHORAGE.
2. POST-INSTALLED ANCHORS ARE EXEMPT FROM STRUCTURAL TESTS/SPECIAL INSPECTION PER DSA 103 FORM.
3. WELDING OF MECHANICAL ENCLOSURE IS EXEMPT PER DSA 103 TESTING AND INSPECTION FORM.
4. SEE SPECIFICATION SECTION O5 5000 FOR ADDITIONAL INFORMATION ON ENCLOSURE.



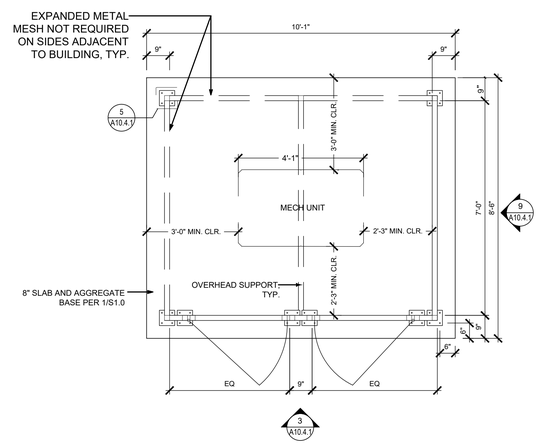
MECHANICAL CONDENSATE DRYWELL 1/4" = 1'-0" 22

NOTE:
1. SEE DETAIL 13/M0.03 FOR MECH UNIT ANCHORAGE.
2. POST-INSTALLED ANCHORS ARE EXEMPT FROM STRUCTURAL TESTS/SPECIAL INSPECTION PER DSA 103 FORM.
3. WELDING OF MECHANICAL ENCLOSURE IS EXEMPT PER DSA 103 TESTING AND INSPECTION FORM.
4. SEE SPECIFICATION SECTION O5 5000 FOR ADDITIONAL INFORMATION ON ENCLOSURE.

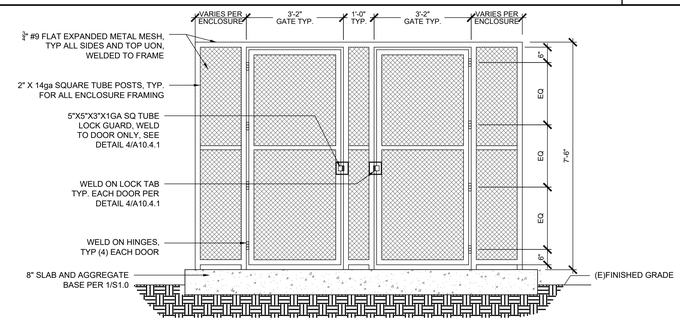


MECHANICAL ENCLOSURE TYPE 2 1/4" = 1'-0" 12

NOTE:
1. SEE DETAIL 13/M0.03 FOR MECH UNIT ANCHORAGE.
2. POST-INSTALLED ANCHORS ARE EXEMPT FROM STRUCTURAL TESTS/SPECIAL INSPECTION PER DSA 103 FORM.
3. WELDING OF MECHANICAL ENCLOSURE IS EXEMPT PER DSA 103 TESTING AND INSPECTION FORM.
4. SEE SPECIFICATION SECTION O5 5000 FOR ADDITIONAL INFORMATION ON ENCLOSURE.

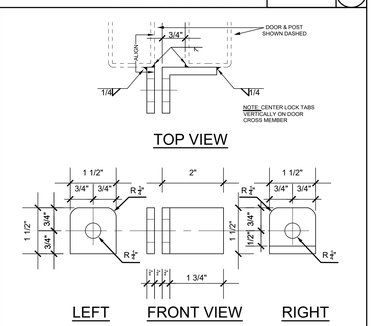


MECHANICAL ENCLOSURE TYPE 1 1/4" = 1'-0" 2

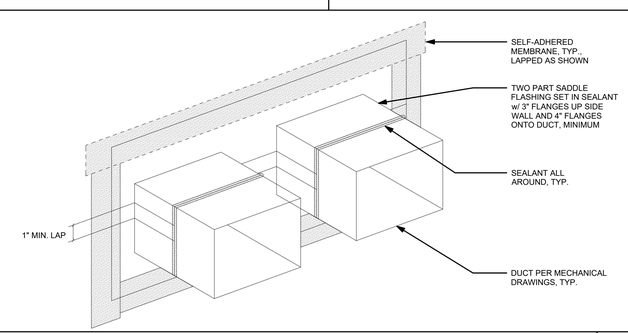


ENCLOSURE - FRONT 1/2" = 1'-0" 3

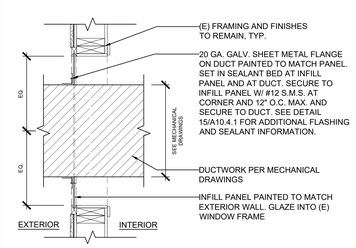
ENCLOSURE - SIDES 3/8" = 1'-0" 9



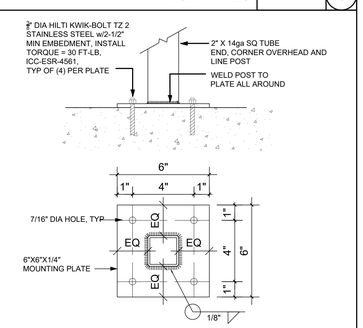
LOCK TABS 6" = 1'-0" 4



DUCT THRU WALL PENETRATION 3" = 1'-0" 15



DUCT AT (E) WINDOW 1" = 1'-0" 10



POST BASE 3" = 1'-0" 5

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Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRIAN P WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023	

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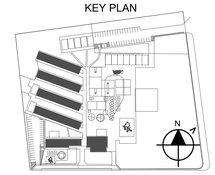
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



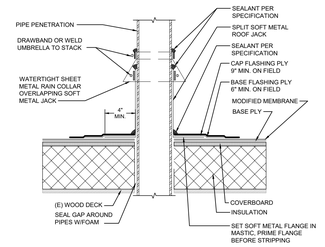
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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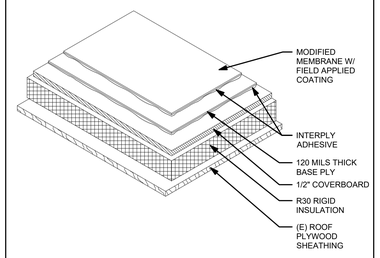
EXTERIOR DETAILS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A10.4.1
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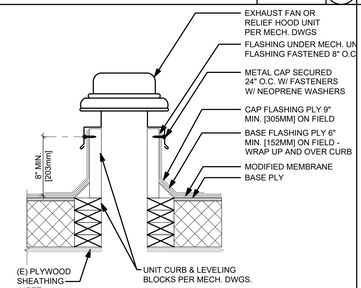
NOTE:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL 9/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE.

PIPE PENETRATION AT ROOF 1 1/2" = 1'-0" 6



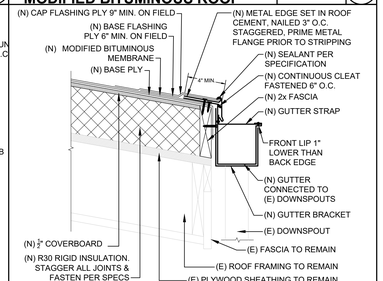
NOTE:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL 9/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE.

TYPICAL 2 PLY ROOFING SYSTEM MODIFIED BITUMINOUS ROOF 1/8" = 1'-0" 1



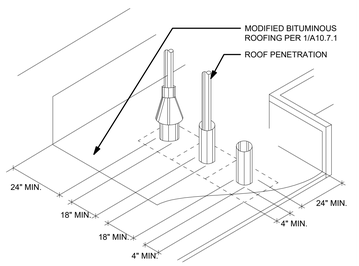
NOTE:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL9/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE.

FLASHING AT ROOF CURB 1 1/2" = 1'-0" 7

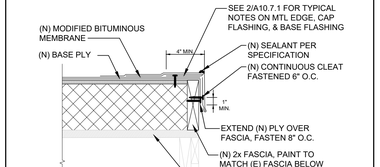


NOTE:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL 9/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE.

TYPICAL LOW EAVE DETAIL 1 1/2" = 1'-0" 2

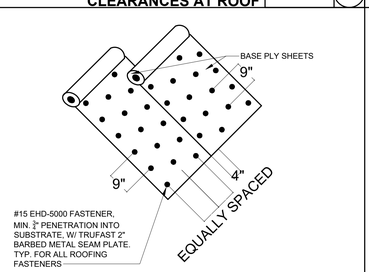


TYPICAL PENETRATION CLEARANCES AT ROOF 1" = 1'-0" 8



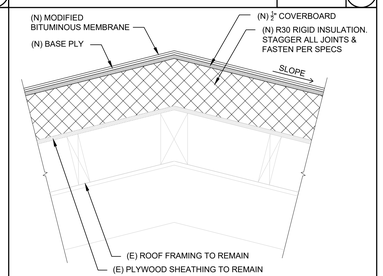
NOTE:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL 9/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE.

TYPICAL RAKE DETAIL 1 1/2" = 1'-0" 3



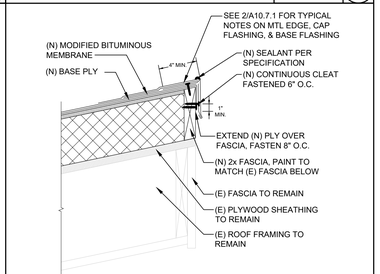
NOTE:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

TYPICAL PENETRATION CLEARANCES AT ROOF 1" = 1'-0" 9



NOTE:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL 9/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE.

TYPICAL RIDGE DETAIL 1 1/2" = 1'-0" 4



NOTE:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL 9/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE.

HIGH EAVE DETAIL 1 1/2" = 1'-0" 5

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023	

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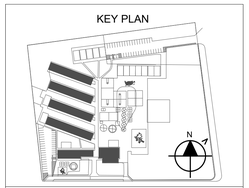
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NO.	REMARKS	DATE

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○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



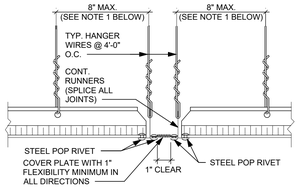
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
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ROOF DETAILS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A10.7.1
Drawn KT / Checked CD	



SEISMIC SEPARATION JOINT

NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

DSA IR 25-2.13 #2.45

SEISMIC SEPARATION JOINT | 3" = 1'-0" | 22

COMPRESSION STRUT TABLE

EMT COMPRESSION STRUT	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	3'-11"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	6'-4"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9'-9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12'-9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14'-9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18'-10"

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250S137-43	8'-10"
400S137-43	10'-10"

DSA IR 25-2.13 #3.21

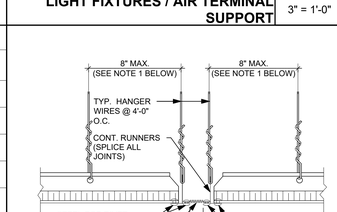
COMPRESSION STRUT TABLE | 3" = 1'-0" | 17

DSA-IR 25.2.13 #3.10A

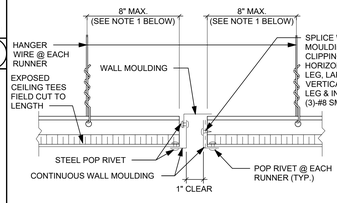
CHANNEL TYPE STRUT | 3" = 1'-0" | 18

DSA IR 25-2.13 #2.80

LIGHT FIXTURES / AIR TERMINAL SUPPORT | 3" = 1'-0" | 11



EXPANSION JOINT



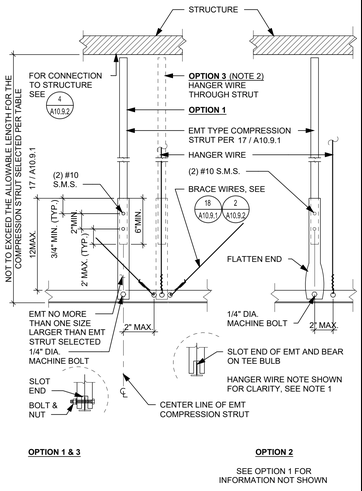
EXPANSION JOINT ALTERNATE

EXPANSION JOINTS AT THE INTERSECTION OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS

NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

DSA IR 25-2.13 #2.40

EXPANSION JOINT AT INTERSECTIONS | 3" = 1'-0" | 13



OPTION 1 & 3

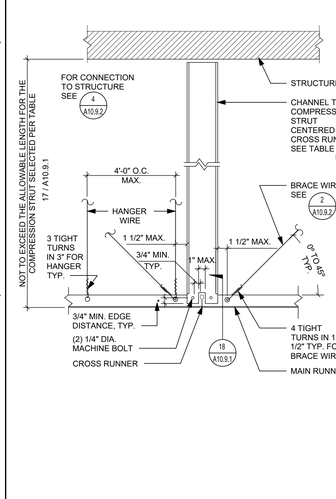
OPTION 2

SEE OPTION 1 FOR INFORMATION NOT SHOWN

NOTES:
1. MACHINE BOLT IS NOT REQUIRED ON OPTION 3.
2. APPLICABLE TO SAWN TIMBER WITHOUT GYPSUM BOARD ONLY.

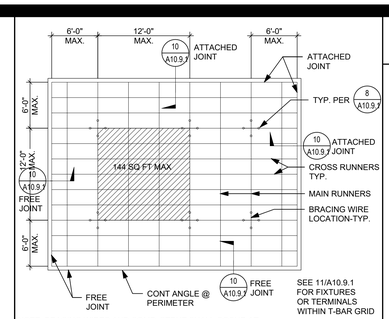
DSA IR 25-2.13 #3.20

EMT TYPE STRUT | 3" = 1'-0" | 20



DSA-IR 25 2.13 #3.10

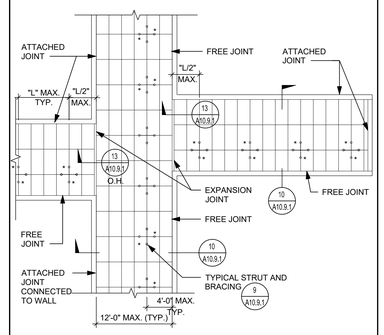
CHANNEL TYPE STRUT | 1 1/2" = 1'-0" | 15



NOTE: BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

DSA-IR 25 2.13 #2.12

TYP. CEILING PLAN - 12'X12' BRACE ASSEMBLY SPACING | 1/8" = 1'-0" | 6

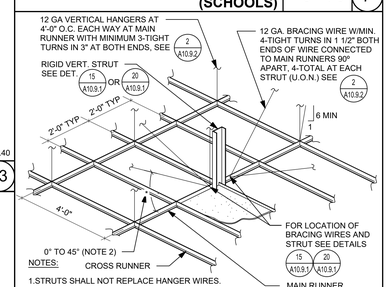


LOCATION OF EXPANSION/SLIP JOINTS IN CORRIDORS

NOTES:
1. "L" IS MAX. BRACE ASSEMBLY SPACING PER CEILING PLAN DETAIL 6 A10.9.1
   A. WHERE 8' x 8' SPACING IS SPECIFIED, USE "L" = 8'.

DSA IR 25-2.13 #2.30

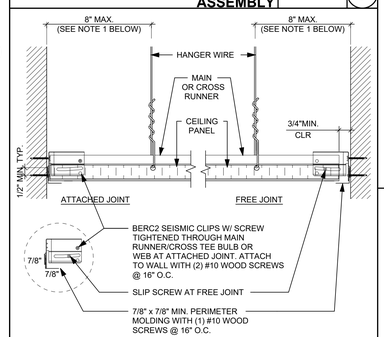
CORRIDOR CEILING PLAN (SCHOOLS) | 3" = 1'-0" | 7



NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

DSA IR 25-2.13 #2.35

SUSPENSION AND BRACING ASSEMBLY | 3" = 1'-0" | 8



NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

DSA-IR 25 2.13 #2.60

CEILING PERIMETER | 3" = 1'-0" | 10

ACOUSTICAL CEILING NOTES

DSA IR-25-2.19 - APPENDIX A (rev 03/18/22)

1. CEILING SYSTEM GENERAL NOTES:

1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.
1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.
1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:
Manufacturer's Name: Armstrong
Product Evaluation Report Type and Number: ICC-ES, ESR-1308
Manufacturer's Model Number - main runner: 7301
Manufacturer's catalog number - cross runner: XL7341 4 ft cross tee and L7328 2 ft cross tee
1.04 Seismic Wall Clip:
Manufacturer's Model: BERC-2 clip (Beam End Retaining Clip)
1.05 Ceiling panels shall not support any light fixtures, air terminals or devices.
1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 3/4" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide 3/4" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip.

2. MATERIALS:

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi.
2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50 ksi.
2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (F_y) of 30 ksi and minimum ultimate strength (F_u) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES:

3.01 Separate all ceiling hanger and bracing wires at least six (6) inches from all un-braced ducts, pipes, conduit, etc.
3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to: piping, ductwork, conduit and equipment.
3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.
3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.)

4. FASTENERS AND WELDING:

4.01 Sheet metal screws shall comply with ASTM C1513, ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.
4.02 Expansion anchors shall be:
4.03 Power-Actuated Fasteners shall be:
4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member.
4.05 Power-actuated fasteners in concrete are not permitted for bracing wires.
4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post - installed anchor.
4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING: All field testing must be performed in the presence of the project inspector.

5.01 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power actuated fasteners in concrete shall be field tested for 200 lbs. in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1913A.7.
5.02 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension.All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.
5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A.5.

6. LUMINAIRES:

6.01 All luminaries shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each light fixture, per ASTM E580, Section 5.3.1.
6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when luminaries are eight (8) feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed eight (8) feet.
6.03 Luminaries weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.
6.04 Luminaries weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.
6.05 Luminaries weighing greater than 10 lb. but less than or equal to 56 lbs. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gage slack safety wires connected from the fixture housing at diagonal corners to the structure above.
Exception: All luminaries greater than two by four feet weighing less than 56 lbs. shall have a #12 gauge slack safety wire at each corner.
6.06 All luminaries weighing greater than 56 lb. shall be independently supported by not less than four (4) taut #12 gage hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four (4) taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four (4) times the weight of the fixture.

7. SERVICES WITHIN THE CEILING:

7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 lb. shall have one (1) #12 gauge slack safety wire attached from the terminal or service to the structure above.
7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than four (4) taut #12 gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING:

8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 lbs. shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 lb. shall be supported independently from the structure above.

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APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRIAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 04/24/2023	

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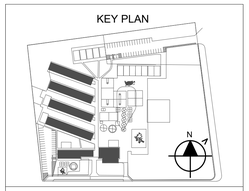
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DRAWING STATUS

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○ CONSTRUCTION	

KEY PLAN



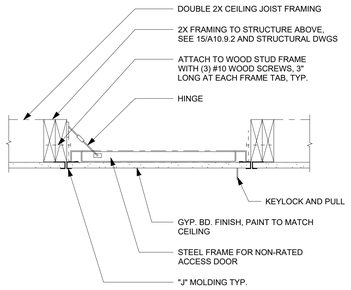
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CONSTRUCTION DOCUMENTS

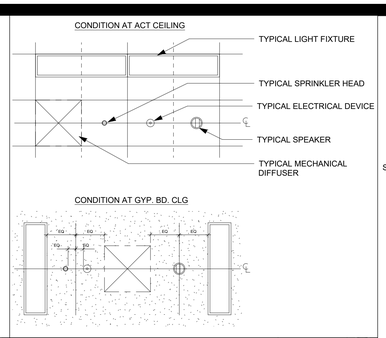
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TYPICAL SUSPENDED ACOUSTIC CEILING DETAILS

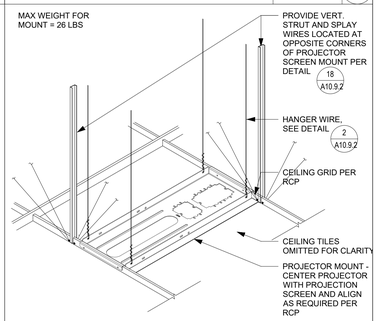
Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A10.9.1
Drawn KT	Checked CD



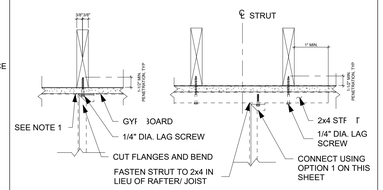
CEILING ACCESS PANEL 3" = 1'-0" 21



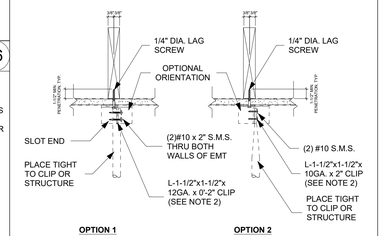
TYPICAL DEVICE LAYOUT 3/8" = 1'-0" 16



PROJECTOR MOUNT 1 1/2" = 1'-0" 17



CHANNEL STRUT



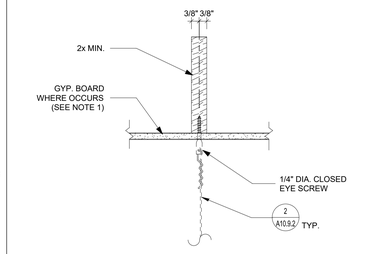
TUBE STRUT

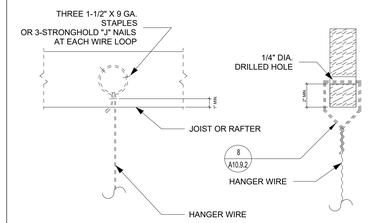
NOTES:

1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF THE WOOD MEMBER.
2. FOR ANGLE ORIENTED IN THE STANDARD POSITION, VERTICAL LEG TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER

DSA IR 25-2.13 #5.50

STRUT CONNECTION TO SAWN TIMBER WITH GYPSUM BOARD 1-1/2" = 1'-0" 12

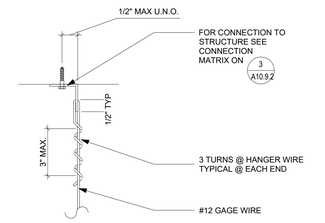




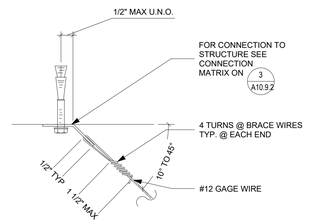
NOTE:
1. WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

DSA IR 25-2.13 #4.25

HANGER WIRE CONNECTION TO SAWN TIMBER 1-1/2" = 1'-0" 7



HANGER WIRE

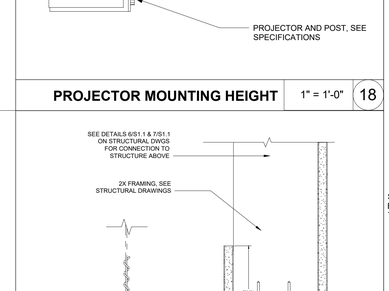


BRACING WIRE

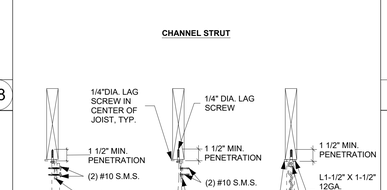
DSA IR 25-2.13 #4.10

HANGER AND BRACING WIRE TYPICAL WIRE TURNS 3" = 1'-0" 2

STRUCTURAL CONDITION OF FLOOR/ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACING WIRE DETAIL
SAWN TIMBER	4.25 & 4.29 7 / A10.9.2 & 8 / A10.9.2	4.35 10 / A10.9.2



PROJECTOR MOUNTING HEIGHT 1" = 1'-0" 18



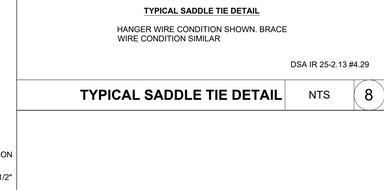
CHANNEL STRUT

TUBE STRUT

NOTES:
1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER.
2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. SEE PAGE 5.50 FOR ADDITIONAL INFORMATION.

DSA IR 25-2.13 #5.60

STRUT CONNECTION TO SAWN TIMBER WITHOUT GYPSUM BOARD 1-1/2" = 1'-0" 14

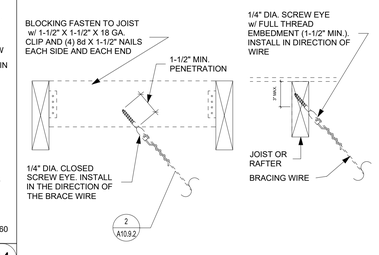


TYPICAL SADDLE TIE DETAIL

HANGER WIRE CONDITION SHOWN. BRACE WIRE CONDITION SIMILAR

DSA IR 25-2.13 #4.29

TYPICAL SADDLE TIE DETAIL NTS 8

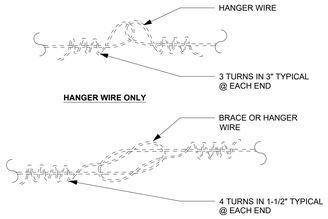


BRACING WIRE CONNECTION TO SAWN TIMBER 1-1/2" = 1'-0" 10

STRUCTURAL CONDITION OF FLOOR/ROOF ABOVE COMPRESSION STRUT	DETAIL
METAL DECK	5.20 (N/A)
CONCRETE OVER METAL DECK	5.21 (N/A)
CONCRETE SLAB, BEAM, OR JOIST	5.30 (N/A)
STRUCTURAL STEEL	5.40 (N/A)
SAWN TIMBER WITH GYPSUM BOARD	5.50 12 / A10.9.2
SAWN TIMBER WITHOUT GYPSUM BOARD	5.60 14 / A10.9.2

DSA IR 25-2.13 #5.10

HANGER AND BRACING WIRE CONNECTION MATRIX NTS 3

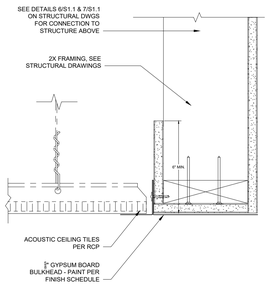


NOTES:

WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTION.

DSA IR 25-2.13 #6.10

CEILING WIRE SPLICES 3"= 1'-0" 5



ACT CEILING AT GYP. BULKHEAD 3"= 1'-0" 19

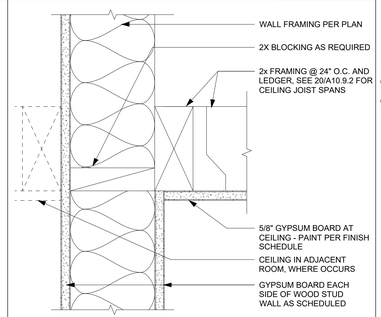
CEILING JOIST SCHEDULE

MAXIMUM SPAN FOR WOOD STUDS - DF #2 WITH DEFLECTION LIMIT L/240 - 13 PSF CEILING

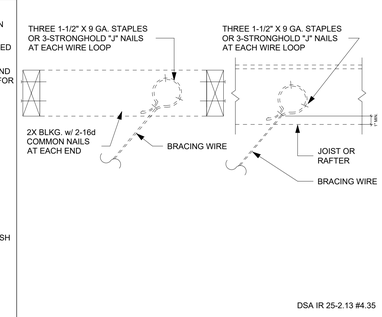
MEMBER SIZE	O.C. SPACING	SPAN
2 X 4	12"	9'-5"
	16"	11'-3"
	24"	9'-3"
2 X 6	12"	19'-6"
	16"	17'-8"
	24"	14'-10"
2 X 8	12"	25'-8"
	16"	23'-0"
	24"	18'-9"
2 X 10	12"	NOTE A
	16"	NOTE A
	19.2"	25'-8"
	24"	22'-11"

NOTE A: SPAN EXCEEDS 26 FEET IN LENGTH

CEILING JOIST SCHEDULE NTS 20



GYPSUM BOARD CEILING 3"= 1'-0" 15



BRACING WIRE CONNECTION TO SAWN TIMBER 1-1/2" = 1'-0" 10

DSA IR 25-2.13 #4.35

CEILING WIRE SPLICES 3"= 1'-0" 5

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Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRIAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 04/24/2023	

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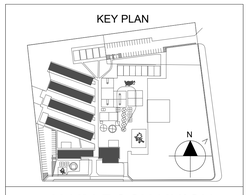
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NO.	REMARKS	DATE

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	DATE
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○ CONSTRUCTION	

KEY PLAN



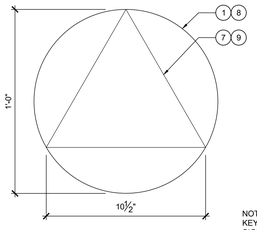
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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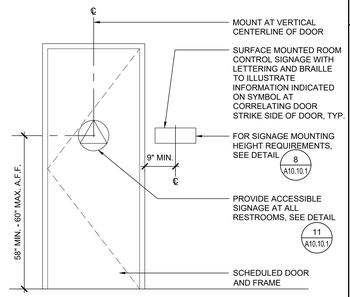
CEILING DETAILS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A10.9.2
Drawn / Checked	
KT / CD	



NOTE: FOR SIGNAGE KEYNOTE LEGEND AND SIGNAGE GENERAL NOTES, SEE DETAIL 2 A10.10.1

GENDER NEUTRAL DOOR SIGNAGE 3" = 1'-0" 11

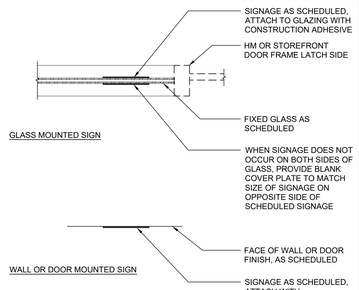


ROOM CONTROL SIGNAGE 1/2" = 1'-0" 6

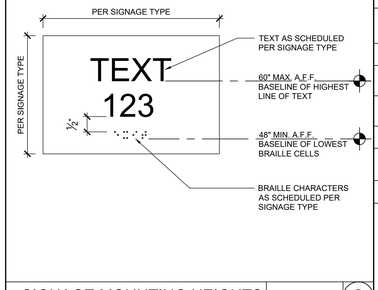


BUILDING ADDRESS MUST BE VISIBLE FROM THE MAIN ROAD (I.E., THE DIRECTION OF AN APPROACHING FIRST RESPONDER VEHICLE). THE NUMBERS MUST BE A MINIMUM OF 4" TALL WITH EACH STROKE A MINIMUM OF ½" WIDE. NUMBERS ARE REQUIRED TO BE ON A BACKGROUND OF A CONTRASTING COLOR.

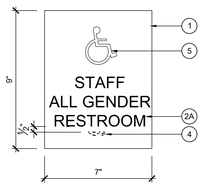
(E) ADDRESS SIGNAGE 3" = 1'-0" 12



SIGNAGE MOUNTING TYPES 1" = 1'-0" 7

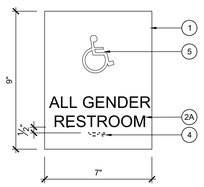


SIGNAGE MOUNTING HEIGHTS 6" = 1'-0" 8



NOTE: FOR SIGNAGE KEYNOTE LEGEND AND SIGNAGE GENERAL NOTES, SEE DETAIL 2 A10.10.1

STAFF - GENDER NEUTRAL WALL MOUNTED SIGNAGE 3" = 1'-0" 9



NOTE: FOR SIGNAGE KEYNOTE LEGEND AND SIGNAGE GENERAL NOTES, SEE DETAIL 2 A10.10.1

KINDER. - GENDER NEUTRAL WALL MOUNTED SIGNAGE 3" = 1'-0" 10

TYPICAL SIGNAGE NOTES

SIGNAGE GENERAL NOTES

1. FOR TYPICAL MOUNTING DISTANCE FROM DOOR FRAME, SEE DETAIL 6 / A10.10.1
2. FOR MOUNTING ATTACHMENTS, SEE DETAIL 7 / A10.10.1
3. FOR SIGNAGE MOUNTING HEIGHT REQUIREMENTS, SEE DETAIL 8 / A10.10.1

SIGNAGE KEYNOTES

1. EXTRUDED CLEAR ACRYLIC SIGN WITH A NON GLARE BACKGROUND OF 70% CONTRASTING COLOR TO TEXT AND ONE PIECE CONSTRUCTION PER SPECIFICATIONS
   BACKGROUND COLOR: MP2160 SAILBOAT BLUE
   THICKNESS: 1/4"
2A. 1/32" RAISED TEXT, CENTER JUSTIFIED ON PLAQUE
   TEXT STYLE: HELVETICA, ALL CAPS
   TEXT HEIGHT: 3/4" U.O.N.
   TEXT COLOR: 951 WHITE
2B. NOT USED
3. NOT USED
4. CALIFORNIA ROUNDED TOP CONTRACTED GRADE 2 BRAILLE BELOW RAISED TEXT (11B-703.3.2). DISTANCE FROM BOTTOM OF RAISED LETTERS TO TOP OF BRAILLE CHARACTERS SHALL BE 3/8" MINIMUM AND 1/2" MAXIMUM. BRAILLE TO BE CENTER JUSTIFIED OR LEFT JUSTIFIED TO MATCH RAISED TEXT. FOR MORE INFORMATION ON BRAILLE REQUIREMENTS, SEE DETAIL 5 / A10.10.1
5. INTERNATIONAL SYMBOL OF ACCESSIBILITY PICTOGRAM
   COLOR: 951 WHITE
6. 1/8" WIDE RAISED DECORATIVE STRIPE
   COLOR TO MATCH TEXT
7. RAISED IMAGE
   COLOR: 951 WHITE
8. CONTRAST 70% WITH DOOR COLOR
9. THE CIRCLE SYMBOL SHALL BE 1/4" THICK; TRIANGLE SYMBOL SHALL BE 1/4" THICK SUPERIMPOSED ON THE CIRCLE. THE TRIANGLE VERTICES SHALL BE MAX 1/4" FROM THE EDGE OF THE CIRCLE. THE CIRCLE COLOR SHALL CONTRAST WITH THE DOOR, THE TRIANGLE SHALL CONTRAST WITH THE CIRCLE. THE EDGES SHALL BE EASED OR ROUNDED AT 1/16" MIN. OR CHAMFERED AT 1/8" MAX. VERTICES SHALL RADIUSED.
   BETWEEN 1/8" MIN. - 1/4" MAX. (11B-703.7.2.6.3, 11B-703.7.2.6.4)
   NOT PICTOGRAM PERMITTED.

TYPICAL SIGNAGE NOTES 2

TABLE 11B-703.3.1
BRAILLE DIMENSIONS

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059" (1.5MM) TO 0.063" (1.6MM)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL *	0.100" (2.5MM)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS *	0.300" (7.6MM)
DOT HEIGHT RANGE	0.025" (0.6MM) TO 0.037 (0.9MM)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW *	0.395" (10MM) TO 0.400" (10.2MM)
* MEASURED CENTER TO CENTER	

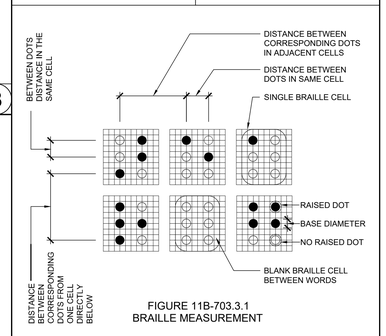
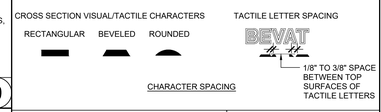


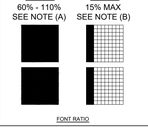
FIGURE 11B-703.3.1
BRAILLE MEASUREMENT



NOTE:

(A) "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE "T"

(B) STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER



FONT RATIO



MINIMUM 70% CONTRAST DIFFERENCE BETWEEN CHARACTERS/GRAPHICS AND BACKGROUND

CONTRAST

SIGNAGE DESIGN REQUIREMENTS 1-1/2" = 1'-0" 5

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DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023	

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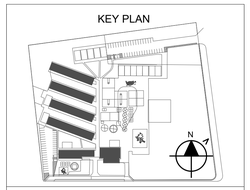
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
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○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



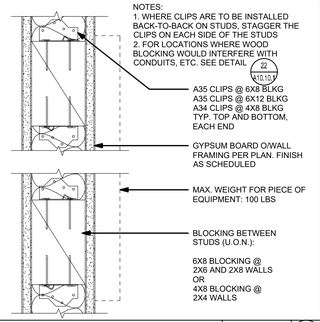
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

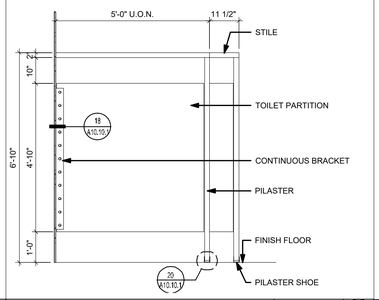
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SAN JOSE, CA 95127

SIGNAGE DETAILS

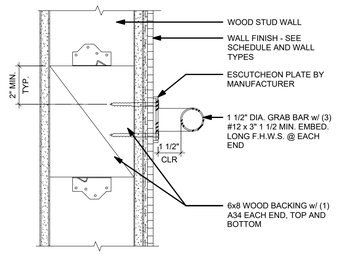
Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A10.10.1
Drawn KT	Checked CD



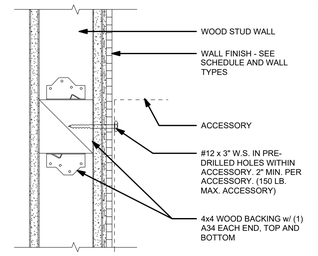
TYPICAL WALL BLOCKING 3" = 1'-0" 21



TYPICAL TOILET PARTITION 1/2" = 1'-0" 16



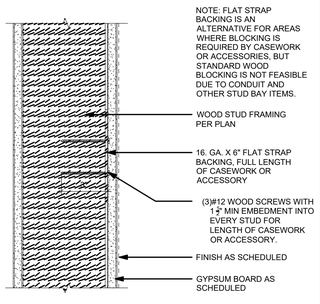
GRAB BAR ANCHORAGE 3" = 1'-0" 11



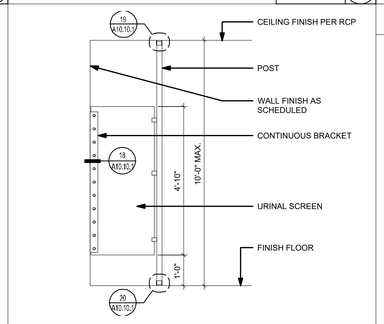
TYPICAL ACCESSORY MOUNTING 3" = 1'-0" 6

KEY NOTES

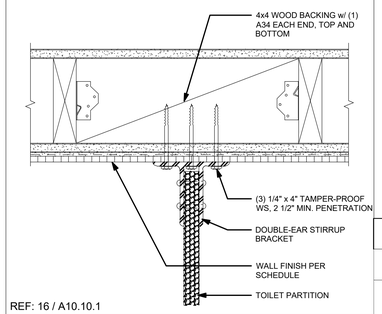
NUMBER	NOTE
10 201	TOILET PARTITION (SEE DETAIL 16/A10.10.1)
10 202	URINAL SCREEN (SEE DETAIL 17/A10.10.1)
10 203	GRAB BAR (SEE DETAIL 11/A10.10.1)
10 210	SANITARY NAPKIN DISPENSER, SEMI-RECESSED
10 211	TOILET SEAT COVER DISPENSER, SURFACE MOUNTED
10 212	TOILET PAPER DISPENSER, SURFACE MOUNTED
10 215	SANITARY NAPKIN DISPOSAL, SURFACE MOUNTED
10 220	MIRROR AS SCHEDULE
10 221	PROVIDE BACKING FOR SOAP DISPENSER (SEE DETAIL 21/A10.10.1)
10 227	PAPER TOWEL DISPENSER, RECESSED
10 901	COAT HOOK
22 410	WALL MOUNTED WATER CLOSET
22 420	URINAL
22 421	URINAL, ACCESSIBLE
22 426	ACCESSIBLE WATER CLOSET
22 431	LAVATORY



FLAT STRAP BACKING 3" = 1'-0" 22

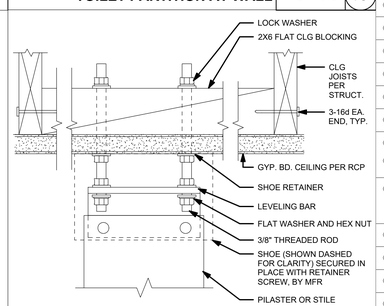


TYPICAL URINAL SCREEN 1/2" = 1'-0" 17



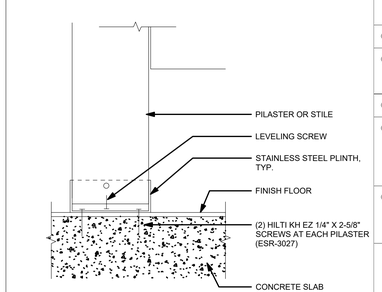
REF: 16 / A10.10.1

TOILET PARTITION AT WALL 3" = 1'-0" 18



REF: 17 / A10.10.1

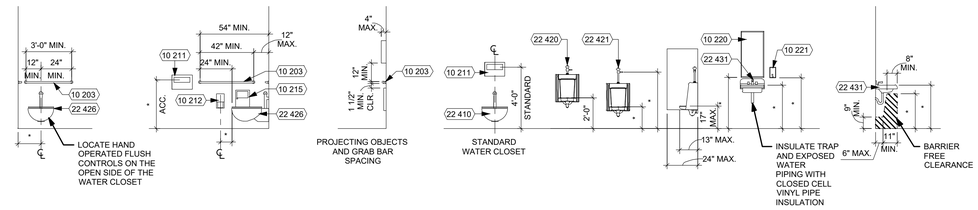
TOILET PARTITION AT CEILING 6" = 1'-0" 19

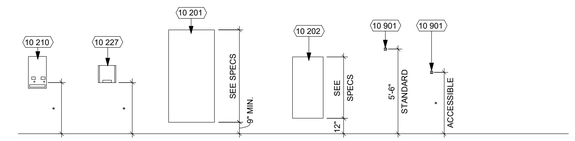


REF: 16 / A10.10.1

TOILET PARTITION AT FLOOR 3" = 1'-0" 20

TYPICAL FIXTURE AND ACCESSORY DIMENSIONS





NOTES:
1. ALL DIMENSIONS MARKED * REFERENCE TOILET FIXTURES AND ACCESSORIES SCHEDULE BELOW.
2. FOR TYPICAL ACCESSORY MOUNTING SEE DETAIL 6 / A10.10.1
3. REFER TO KEYNOTE LIST FOR ADDITIONAL DETAILS.

TYPICAL FIXTURE AND ACCESSORY DIMENSIONS 2

TOILET FIXTURES AND ACCESSORIES SCHEDULE

KEY	FIXTURE	DIMENSION REFERENCE	ADULT DIMENSION	OVER TABLE 11B-609.4 (2019 CBC) SUGGESTED DIMENSION FOR CHILDREN AGES 3-4	AGES 5-8	AGES 9-12	2019 CBC REFERENCES: T: TABLE S: SECTION F: FIGURE	RECOMMENDED TOILET ACCESSORIES MANUFACTURER (BASIS OF DESIGN)
10 203	GRAB BAR	TOP OF GRIPPING SURFACE	33" - 36"	18" - 20"	20" - 25"	25" - 27"	T: 11B-604.9	BOBRICK 5806 (STRAIGHT GRAB BARS)
10 201	TOILET PARTITION	TOE CLEARANCE	9" MIN.	12" MIN.				ASI GLOBAL PARTITIONS FLOOR ANCHORED/ OVERHEAD BRACED
10 202	URINAL SCREEN							ASI GLOBAL PARTITIONS POST-MOUNTED SCREEN
10 221	SOAP DISPENSER	ABOVE FINISH FLOOR	40" MAX. TO CENTERLINE OF OPERABLE PART				S: 11B-603.5	SURFACE MOUNTED, O.F.O.I.
10 227	PAPER TOWEL DISPENSER, RECESSED	ABOVE FINISH FLOOR	40" MAX. TO CENTERLINE OF OPERABLE PART				S: 11B-603.5	BOBRICK B-359033 (WITH TOWELMATE AND LOCK) RECESSED
10 211	SEAT COVER DISPENSER	ABOVE FINISH FLOOR	40" MAX. TO CENTERLINE OF OPERABLE PART				S: 11B-603.5	BOBRICK B-221 SEAT COVER DISPENSER SURFACE MOUNTED
10 219	MIRROR - STAINLESS STEEL	BOTTOM EDGE OF REFLECTING SURFACE	40" MAX. ABOVE LAVATORY OR COUNTERTOP 35" MAX. NOT ABOVE LAVATORY OR COUNTERTOP				S: 11B-603.3	BOBRICK B-1556 MIRROR 18" X 30"
10 220	MIRROR - GLASS	BOTTOM EDGE OF REFLECTING SURFACE	40" MAX. ABOVE LAVATORY OR COUNTERTOP 35" MAX. NOT ABOVE LAVATORY OR COUNTERTOP				S: 11B-603.3	BOBRICK B-290 MIRROR 24" X 36"
10 212	TOILET PAPER DISPENSER	OUTLET HEIGHT	19" MIN. AND BELOW GRAB BAR	14"	14" - 17"	17" - 19"	T: 11B-604.9 S: 11B-604.7	BOBRICK B-2888 TOILET TISSUE DISPENSER SURFACE MOUNTED
		FURTHEST IN FRONT OF WATER CLOSET	7" MIN. - 9" MAX. TO CENTERLINE OF DISPENSER					
10 210	SANITARY NAPKIN DISPENSER	ABOVE FINISH FLOOR	40" MAX. TO CENTERLINE OF OPERABLE PART				S: 11B-603.5	BOBRICK B-47064C NAPKIN/TAMPON VENDOR, FREE NO-COIN, SEMI RECESSED
10 215	SANITARY NAPKIN DISPOSAL	OPENING HEIGHT	19" MIN. AND BELOW GRAB BAR	14"	14" - 17"	17" - 19"		BOBRICK B-254 SANITARY NAPKIN DISPOSAL SURFACE MOUNTED
10 901	COAT HOOK	ABOVE FINISH FLOOR	40" - 48"				S: 11B-604.8.3	BOBRICK B-76717 ROBE HOOK
22 403	HI-LO DRINKING FOUNTAIN	HIGH SPOUT HEIGHT	38" MIN. - 43" MAX.				S: 11B-602.7	SEE PLUMBING DRAWINGS
		LOW SPOUT APPROACH, HEIGHT, AND LOCATION FROM FRONT EDGE OF THE UNIT INCLUDING BUMPERS	FRONT APPROACH PER 11B-306, 36" MAX. A.F.F., AND 5" MAX. FROM FRONT EDGE OF UNIT.				S: 11B-602.2 - EXCEPTION S: 11B-602.4 S: 11B-602.5	
		OPERABLE PARTS	6" MAX. FROM FRONT EDGE OF UNIT				S: 11B-602.3	
		PROJECTION	18" - 19"				S: 11B-602.9	
22 410	STANDARD WATER CLOSET							SEE PLUMBING DRAWINGS
22 426	ACCESSIBLE WATER CLOSET	CENTERLINE FROM WALL (TOILET OFFSET)	17" - 18" WHEEL CHAIR 17" - 19" AMBULATORY	12"	12" - 15"	15" - 18"	T: 11B-604.9	SEE PLUMBING DRAWINGS
		SEAT HEIGHT (TOP OF SEAT)	17" - 19"	11" - 12"	12" - 15"	15" - 17"	T: 11B-604.9	
22 420	STANDARD URINAL	RIM HEIGHT	24"					SEE PLUMBING DRAWINGS
22 421	ACCESSIBLE URINAL	RIM HEIGHT	17" MAX.				S: 11B-605.2	SEE PLUMBING DRAWINGS
		PROJECTION	13 1/2" MIN.				S: 11B-605.2	
		FLUSH CONTROL HEIGHT	44" MAX.				S: 11B-605.4	
22 431	LAVATORY (W/ INSULATED DRAIN)	SINK RIM HEIGHT	34" MAX.	31" MAX			S: 11B-606.2 S: 11B-606.3	SEE PLUMBING DRAWINGS
		SINK KNEE CLEARANCE	27" MIN. (29" AT APRON FOR LAVATORY)	PARALLEL APPROACH PERMITTED	AGE 5: PARALLEL APPROACH PERMITTED AGES 6-8: 24" MIN.	24" MIN.	S: 11B-606.2 F: 11B-306.3	

NOTES:
1. ALL FIXTURES AND ACCESSORIES ARE ACCESSIBLE UNLESS OTHERWISE NOTED OR DIMENSIONED.
2. SEE ENLARGED TOILET PLAN DRAWINGS FOR TOILET ACCESSORY LOCATIONS.
3. ALL ACCESSORIES ARE TO BE ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 3'-4" FROM FLOOR TO CENTER OF FUNCTIONAL POINT.
4. ALL HEIGHT DIMENSIONS ARE A.F.F. (OR A.F.G. FOR EXTERIOR). ALL HORIZONTAL DIMENSIONS ARE TO FACE OF FINISH.
5. FOR TYPICAL ACCESSORY BACKING INFORMATION, SEE DETAIL 6 / A10.10.1

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APP: 01-120632 INC:
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STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023	

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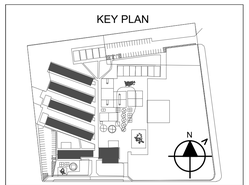
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	DATE
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○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

SPECIALTIES

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	A10.10.2
Drawn KT	Checked CD

General Notes

1. Construction shall conform to all applicable codes and regulations.
2. Shop Drawing Note:
   A) Prior to fabrication, shop drawings shall be submitted for review to the Structural Engineer. Shop drawings submittals shall include, but are not necessarily limited to reinforcing steel, structural steel, and glued laminated beams.
3. Safety Note:
   A) It is the Contractor's responsibility to comply with the pertinent sections, as they apply to this project, of the "Construction Safety Orders" issued by the State of California latest edition, and all OSHA requirements.
   B) The owner and the Structural Engineer do not accept any responsibility for the Contractor's failure to comply with these requirements.
   C) The Contractor shall be responsible for adequate design and construction of all forms and shoring required.
4. The Contractor shall notify the Architect and Structural Engineer where a conflict or a discrepancy occurs between the structural drawings and any other portion of the contract documents or existing field conditions. Such notification shall be given in due time so as not to affect the construction schedule. In case of a conflict between structural drawings and specifications, the more restrictive condition shall take precedence unless written approval has been given for the least restrictive. Contractor shall verify all dimensions with architectural and structural drawings prior to commencing any work.
5. All drawings and written material appearing herein constitutes the original and unpublished work of the Structural Engineer and the same may not be duplicated, used or disclosed without written consent of the Structural Engineer and compensation.
6. The structure shown on these drawings is structurally sound only in its completed form. The stability of this structure depends on the diaphragm and the bracing members shown. The Contractor is to provide for the design and construction of shoring for all earth, forms, concrete, steel, wood, and masonry to resist gravity, earth, wind, seismic, and construction loads. Shoring shall remain in place until all diaphragm and lateral resisting elements are in place in their entirety.

Design Criteria

1. Codes and Standards:
   a) 2019 California Building Code (CBC)
   b) Building Code Requirements for Structural Concrete - ACI 318-14
   c) Building Code Requirements for Masonry Structures - TMS 402-2016
   d) Specification for Masonry Structures - TMS 602-2016
   e) Specification for Structural Steel Buildings - AISC 360-16
2. Vertical Loads:
   Roof Live Load = 20 psf (reducible)
3. Soils Values:
   Allowable soil bearing pressures:
   a) DL+LL= 1500 psf
   b) DL+LL+wind/seismic= 1995 psf
4. Wind Load Design Criteria:
   a) Ult. Design Wind Speed, V_{ult}= 100 mph
   b) Nom. Design Wind Speed, V_{asd}= 78 mph
   c) Risk Category - III
   d) Wind Exposure - C
   e) Internal Pressure Coefficient, GC_{pi}= -0.18, +0.18
5. Seismic Load Design Criteria:
   a) Risk Category - III
   b) Seismic Importance Factor, I_e= 1.25
   c) Site Class = D
   d) S_s = 1.925 S_1 = 0.736
   e) S_{DS}= 1.540
   f) Seismic Design Category, SDC = D
   g) Seismic Force-Resisting System/s: Wood Shearwalls
   i) Analysis Procedure = Static
   j) $F_{p_{ult}}$= 706#, ap=2.5, Rp=6.0
   l) Horiz. Structural Irregularities: none
   m) Vert. Structural Irregularities: none
   n) Location of "Base" - FF (t.o. slab)

Foundations

1. All foundation work shall be done in accordance with the requirements of the 2019 California Building Code (CBC).
2. All foundations shall bear on firm undisturbed soil.
3. Bottoms of all foundations shall be level. Changes in bottom of foundation elevation shall be constructed only as detailed on the drawings.
4. Foundations may be cast in neat excavations provided the footing excavations are stable and able to maintain a cut edge without sloughing. Provide formwork and planking at edges of excavations to protect against sloughing, as required.
5. Notify the Structural Engineer 48 hours before casting foundations.
6. Tests, inspections, and verifications of all work associated with the site preparation, soils, grading, excavations and fill compaction/materials and the like shall be per the approved DSA 103.

Concrete

General: All concrete construction shall conform to Chapter 19A of the California Building Code (CBC), and Building Code Requirements for Structural Concrete (ACI 318-14).

1. Structural concrete shall attain 28 day compressive strength as required in note #15.
2. Concrete shall be mixed, placed, and cured in accordance with ACI 318-14 and project specifications.
3. Cement shall conform to ASTM C-150 type I or II.
4. Concrete aggregates shall conform to ASTM C-33. Aggregates for lightweight concrete shall conform to ASTM C-330.
5. Construction joints shall be made rough and all loose materials removed from the surface. The entire surface of the joint shall be roughened by chipping, sand blasting or raking the surface to produce ¼" deep deformations.
6. Remove all debris and loose materials from forms and excavations before casting any concrete.
7. Reinforcing, dowels, bolts, anchors, sleeves, etc., to be embedded in concrete shall be tied securely in position before placing concrete.
8. Consolidate concrete placed in forms by mechanical vibrating equipment supplemented by hand-spading, rodding or tamping. Use equipment and procedures for consolidation of concrete in accordance with the recommended practices of ACI 309 to suit the type of concrete and project conditions.
9. No wood spreaders allowed. No wood stakes allowed in areas to be concreted.
10. Casting concrete during cold weather shall be in accordance with all provisions of ACI 306 (latest edition), Standard Specification for Cold Weather Concreting.
11. Casting concrete during hot weather shall be in accordance with all provisions of ACI 305 (latest edition), Specification for Hot Weather Concreting.
12. Tests and Inspections of the concrete shall be per the approved DSA 103.
13. Concrete types:

Class	Item	f'c @ 28 days	Aggregate Size	Unit Weight (pcf)	Max W/C Ratio
A.	General use	3000 psi	1"	145	0.55

Notes:
a) Concrete shall have a maximum slump of 4".
b) A water-reducing admixture should be added where increased workability is needed or desired.

Reinforcing Steel

1. Reinforcing steel shall conform to ASTM A615- grade 60 for #4 and larger, and ASTM A615-grade 40 for #3 and smaller, except reinforcing steel to be welded shall conform to ASTM A706.
2. All preheating and welding of reinforcing bars shall be done in accordance with AWS D1.4 latest edition and shall be continuously inspected by a qualified laboratory.
3. Reinforcing steel shall be fabricated in accordance with the ACI "Manual of Standard Practice for Reinforced Concrete Construction", latest edition.
4. Wire fabric shall conform to ASTM A-185 and shall be lapped 12" minimum at splices.
5. Tests and inspections of the reinforcing steel shall be per the approved DSA 103.
6. Provide all accessories necessary to support and secure reinforcing steel in the positions shown on the plans. All reinforcing steel shall be tied securely in position prior to placing concrete.
7. The following minimum concrete cover shall be provided for reinforcing steel:
   a) For concrete cast against earth.....3"
   b) For concrete exposed to earth or weather:
      #5 and smaller bars.....1½"
      #6 and larger bars.....2"
      #8 and smaller bars in tilt-up panels.....1"
   c) For concrete not exposed to earth or weather.....¾"
8. Splices in reinforcing steel shall be Class B unless noted otherwise and shall conform to the following schedule:

Lap Splice Length Schedule

Concrete Strength	Splice Class	Reinforcing Location	#3	#4	#5	#6	#7	#8	#9	#10	#11
3000 psi	B	Top Bars	21"	29"	42"	56"	90"	112"	134"	159"	184"
	B	Other Bars	16"	22"	32"	43"	69"	86"	103"	122"	141"
4000 psi	B	Top Bars	21"	25"	37"	49"	78"	97"	117"	138"	159"
	B	Other Bars	16"	19"	28"	37"	60"	74"	90"	106"	122"

Notes:
a) Schedule applies to uncoated, Grade 60 reinforcing steel, and normal weight, 3000 psi & 4000 psi concrete.
b) Top bars are located such that 12" or more of fresh concrete is cast below the splice.
c) For light weight concrete, multiply lap lengths by 1.30.
d) Schedule applies to uncoated bars with a clear spacing of not less than 1½ inches, and, to bars with concrete cover of at least 2½ inches.

Wood

1. Sawn lumber shall conform to the following minimum specifications unless noted otherwise:

Member	Species	Grade
2x joists, rafters, and sub-purlins	Douglas Fir-Larch	No. 2
2x and 3x studs, plates, and blocking	Douglas Fir-Larch	No. 2
4x and 6x posts	Douglas Fir-Larch	No. 1
4x and 6x beams, purlins, and headers	Douglas Fir-Larch	No. 1

2. Glued Laminated Beams shall be manufactured and identified as required in ANSI/AITC A 190.1 and ASTM D 3737. Glued laminated beams shall be combination 24F-V4 for simple span members and 24F-V8 for cantilevered members. All glued laminated beams shall be manufactured with a 2000 ft. radius camber (except cantilevers shall have no camber) unless noted otherwise. Each glued-laminated beam shall be fabricated with exterior glue and shall be assumed to be for exterior use. Each glued-laminated beam shall be sealed and wrapped per AITC 111.
3. Preservative-treated wood shall conform to the requirements of the applicable AWPA Standard U1 and M4 for the species, product, preservative, and end use. Preservative treated wood shall bear aquality mark stamp or label per CBC 2303.1.9.1.
4. Wood Structural Panel Sheathing shall conform to DOC PS 1 or PS 2.
5. All wood in direct contact with concrete or masonry shall be preservative-treated.
6. Bearing and shear walls shall have double top plates, lapped at wall and partition intersection with 3-16d nails. Splice double top plates as noted or detailed on the drawings.
7. Provide solid blocking between joists and rafters at all supports.
8. Provide blocking at all ceiling levels.
9. Holes for bolts in wood shall be bored with a bit equal in size to the diameter of the bolt plus ⅛ inch.
10. Holes for lag screws shall be bored as follows:
    a) The clearance hole for the shank shall have the same diameter as the shank, and the same depth of penetration as the length of unthreaded shank.
    b) The lead hole for the threaded portion shall have a diameter equal to 60% to 75% of the shank diameter and a length equal to at least the length of the threaded portion.
    c) Lag screws and wood screws shall be screwed and not driven into place. Soap may be used to lubricate the screws.
11. All bolts and lag screws shall be provided with metal washers under heads and nuts which bear on wood. Applies also to inserted expanding fasteners, Red Head, etc.
12. Lay all structural sheathing panels on roofs and floors with face grain perpendicular to supports unless noted otherwise.
13. Use plyclips at midspan of all unsupported roof sheathing edges.
14. Connector hardware model number are those for Simpson Strong-Tie Company. Equivalent connectors with ICC Evaluation Report may be substituted. All joist hangers shall be Simpson U series unless noted otherwise.
15. Nails shall have the following minimum dimensions (measured before application of any protective coatings):

Nail	Diameter	Length
16d common	0.162"	3½"
10d common	0.148"	3"
8d common	0.131"	2½"

16. Anchor bolts for foundation sill plates shall be ⅝" diameter with a 12" minimum length, & 7" minimum embedment into concrete. Anchor bolts shall conform to ASTM A307 with a standard hex head at the embedded end or, shall conform to ASTM A36 with a fully engaged hex nut on the embedded end. Anchor bolts shall be spaced at 48"cc unless noted otherwise. Provide at least two anchor bolts per each piece of foundation sill plate and, provide an anchor bolt not more than 12" nor less than 4" from the ends of each piece of foundation sill plate. All anchor bolts at non- shearwalls shall have standard cut washers, and, shearwalls shall have plate washers at all anchor bolts per the shearwall schedule.
17. Per CBC 2304.10.5, fasteners (including nuts, washers, and connector) for preservative-treated and fire-retardant-treated wood shall be of hot-dipped galvanized steel or stainless steel.
18. No upset threaded bolts allowed; use only cut-thread bolts with full diameter bodies. See table below for dimensional requirements for cut-thread bolts with full diameter bodies:

Nominal Bolt Size (inches)	Body or Shank Diameter (inches) Max.	Min.
½" (0.500)	0.515	0.482
⅝" (0.625)	0.642	0.605
¾" (0.750)	0.768	0.729
⅞" (0.875)	0.845	0.852
1" (1.000)	1.022	0.976

Note: The body, or shank, of the bolt is the smooth part between the head and the threads.

Simpson SET-3G Adhesive Anchors in Concrete

1. Use Simpson SET-3G Adhesive Anchors as manufactured by Simpson Strong Tie Company, Inc., ICC Report No. ESR-4057.
2. Installation of anchors shall be in accordance with the manufacturer's recommendations, ICC report and these notes.
3. Holes for installation of the threaded rod or reinforcement bar must be cleaned of dust and debris, using a nylon brush and oil-free compressed air as required to remove particulate debris and to achieve a relatively dust-free surface.
4. Special Inspection is required for anchor installations.
5. When installing anchors do not cut or damage existing reinforcing bars.
6. Threaded anchor rods to be ASTM A307 Grade C, ASTM A193 Grade B7, or ASTM A193 Grades B6 or B8.
7. Deformed reinforcing bars (rebar) to conform to ASTM A615.
8. Concrete shall be normal weight with a minimum compressive strength of 2500 psi.
9. All anchors through pressure treated lumber shall be stainless steel.

NORMAL WEIGHT CONCRETE ANCHORS
f'c = 3000psi (min)

Simpson SET-3G — Carbon Steel Anchors ICBO Report NO. 4057

Anchor Diameter	Embed (u.n.o.)	Edge Distance	Spacing	ICBO Allowable Loads (lbs) * per ACI 318-14, Chapter 17 Allowable Shear	Allowable Tension	Tension Test
½"	3"	6"	6"	640	315	630
⅝"	4"	2⅜"	12"	460	230	460
⅝"	4"	8"	12"	1005	500	1000
¾"	6"	12"	12"	4590	920	1840

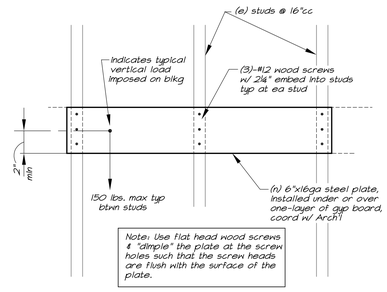
Notes:
1. *Tabulated loads are allowable stress design loads.
2. Tabulated loads listed in this table are not for use when both shear and tension forces are present.
3. The minimum concrete thickness is equal to 2.25 x embedment depth.
4. Tabulated loads are based on A307, Grade C material.
5. Tabulated loads are based on having no supplementary reinforcing present.
6. Tabulated loads are based on a seismic design category of type "D".
7. Tabulated loads are based on the assumption of a non-ductile connection and include the 2.5 factor required by ACI 318.
8. For conditions not covered by this table, contact the Engineer of Record for direction prior to proceeding.

Simpson Strong-Bolt 2 Expansion Anchor Notes

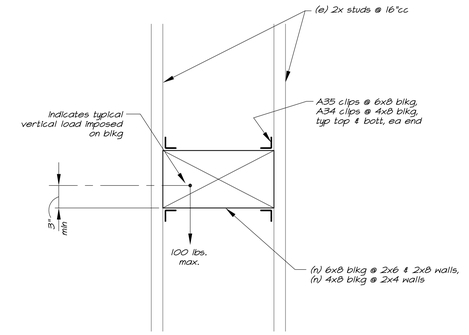
1. Use Simpson Strong-Bolt 2 Expansion Anchors as manufactured by Simpson Strong Tie Company, Inc., ICC-ES Report No. ESR-3037.
2. Installation of anchors shall be in accordance with the manufacturer's recommendations, ICC report and these notes.
3. Holes for installation of the threaded rod or reinforcement bar must be cleaned of dust and debris, using pressurized air as required to remove particulate debris and to achieve a relatively dust-free surface. The anchor, nut, and washer must be assembled so that the top of the nut is flush with the top of the anchor. The anchor must be driven into the hole using a hammer until the proper embedment depth is achieved. The nut and washer must be tightened against the base material until the appropriate installation torque is achieved.
4. Special Inspection is required.
5. When installing anchors in existing concrete do not cut or damage existing reinforcing bars.

Inspection and Testing Of Post-Installed Anchors

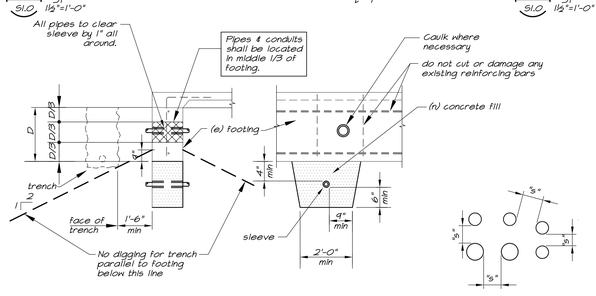
1. Allowable shear and withdrawal loads shall be based on qualification tests in compliance with ICC acceptance criteria AC-193 for mechanical anchors and AC-308 for adhesive anchors, and ACI 355.2 for simulated seismic tests. Allowable loads shall be determined in compliance with ACI 318-19 Chapter 17 and the anchor's engineering evaluation report.
2. All anchors used shall possess an engineering evaluation report that is acceptable under the Division of the State Architect's Interpretation of Regulation IR A-5.
3. Anchor Installation shall be observed by the project Inspector of Record for compliance with the manufacturer's installation instructions.
4. Anchors shall be torque tested by the testing laboratory in compliance with CBC 1910A.5.2:
   4.1 Testing Frequency:
   For equipment, piping, or duct anchorage: 50%
   4.2 Testing Values: Torque test values are stated in the specific anchorage details.
   4.3 Test Acceptance: Anchors shall be tested with a calibrated torque wrench, and shall attain the specified torque within 1/4 turn of the nut.
   4.4 If any anchor fails testing, all anchors of the same type, not previously tested, which were installed by the same trade shall be tested until 20 consecutive anchors pass, then resume normal frequency.



5 S1.0 Typical Plate for Wall-Mounted Equipment 1½"=1'-0"



4 S1.0 Typical Blocking for Wall-Mounted Equipment 1½"=1'-0"



3 S1.0 Pipes & Conduits at Existing Footings ⅜"=1'-0"

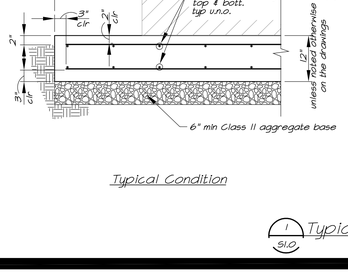
General Notes for Core-Drilling Existing Footings
1. Top, bottom, and vertical reinforcing shall be located by a non-destructive means prior to core-drilling footings.
2. All existing reinforcing steel shall not be interrupted or damaged by core-drilling operations.
3. In this detail, "s" indicates the center-to-center spacing of core-drilled holes.
4. The center-to-center spacing, "s", of any two holes shall not be less than three times the diameter of the larger hole.
5. The size of the core-drilled hole shall be the minimum size necessary to accommodate the pipe.
6. The maximum size of core-drilled hole shall not exceed 6" diameter.
7. Pipes shall not be placed under existing isolated spread footings.
8. Where pipes run perpendicular to, and under, continuous footings, pipes are to be wrapped with compressible foam pipe wrap (1" min all around) or sleeved. The trench under the footing shall be filled with concrete same width as the footing.

Standard Hooks & Bends for Bars Other than Stirrups, Ties and Hoops

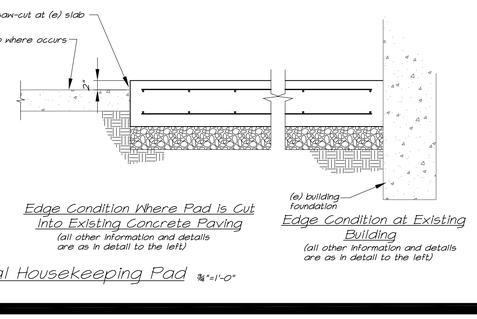
Type of Hook	Bar Size	D, Minimum Inside Bend Diameter, in.	Diagram of Hook
90 degree hook	#3 thru #8	$6d_b$	d_b = bar diameter; 90°; D = bend diameter; $12d_b$
	#9 thru #11	$8d_b$	
	#14 thru #18	$10d_b$	
180 degree hook	#3 thru #8	$6d_b$	d_b = bar diameter; 180°; D = bend diameter; greater of $4d_b$ or 2½"
	#9 thru #11	$8d_b$	
	#14 thru #18	$10d_b$	

Standard Hooks & Bends for Stirrups, Ties, and Hoops

Type of Hook	Bar Size	D, Minimum Inside Bend Diameter, in.	L_{ext}	Diagram of Hook
90 degree hook	#3 thru #5	$4d_b$	greater of $6d_b$ and 3"	d_b = bar diameter; 90°; D = bend diameter; $12d_b$
	#6 thru #8	$6d_b$	$12d_b$	
135 degree hook	#3 thru #5	$4d_b$	greater of $6d_b$ and 3"	d_b; 135°; D = bend diameter; $6d_b$
	#6 thru #8	$6d_b$		
180 degree hook	#3 thru #5	$4d_b$	greater of $6d_b$ and 3"	d_b; 180°; D = bend diameter; $4d_b$
	#6 thru #8	$6d_b$		



Typical Condition



Edge Condition Where Pad is Cut Into Existing Concrete Paving (all other information and details are as in detail to the left)

Edge Condition at Existing Building (all other information and details are as in detail to the left)

1 S1.0 Typical Housekeeping Pad ⅜"=1'-0"

2 S1.0 Rebar Hooks & Bends ⅜"=1'-0"

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STUDIO W ARCHITECTS

Studio W Architects
1930 H street
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

MLA STRUCTURAL ENGINEERS INC
1132 Suncast Lane, Suite 6
El Dorado Hills, CA 95762
phone: (916) 941-2425
fax: (916) 941-2429

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P WHITMORE No. C 30345 Ren.: 9/30/21 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER JOHN M. MANDSAGER No.3824 Exp.09/30/24 STRUCTURAL STATE OF CALIFORNIA

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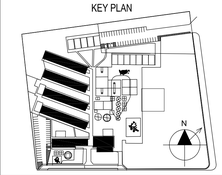
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



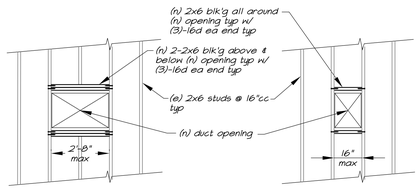
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2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

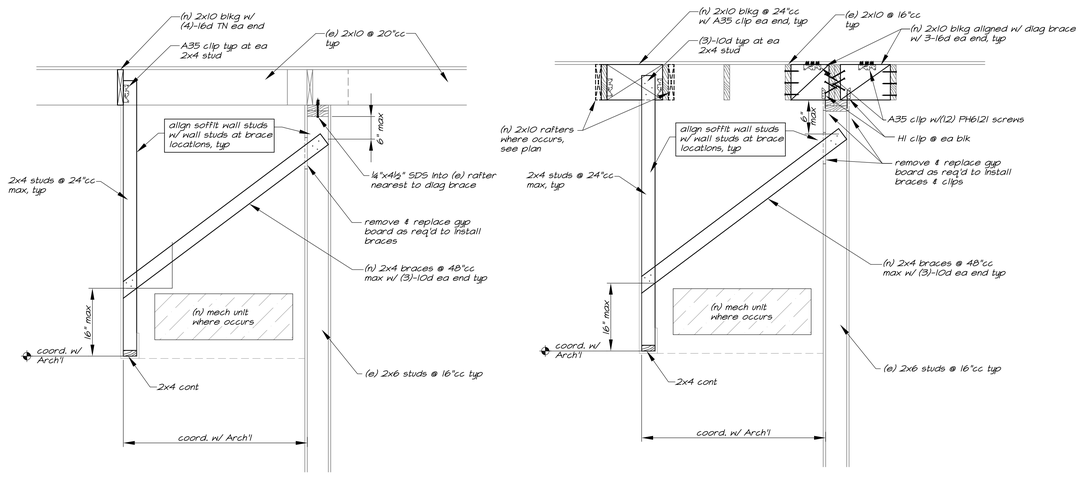
RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TYPICAL NOTES & DETAILS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	S1.0
Drawn GSL	Checked JMM



9 / S1.1 New Duct Opening In Existing Non-Bearing Non-Shear Wall 3/8"=1'-0"

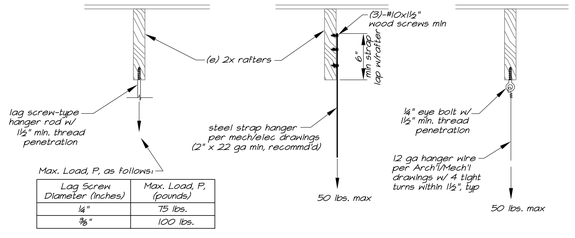


Hanging Soffit Detail 6 / S1.1 3/8"=1'-0"

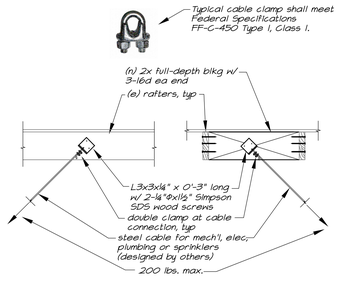
Hanging Soffit Detail 7 / S1.1 3/8"=1'-0"

5 / S1.1 Typical Opening in Roof Diaphragm 3/8"=1'-0"

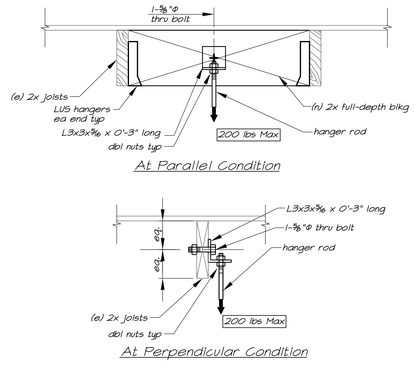
6 / S1.1 New Duct Opening in Roof at Multi-Purpose Mechanical Room 3/8"=1'-0"



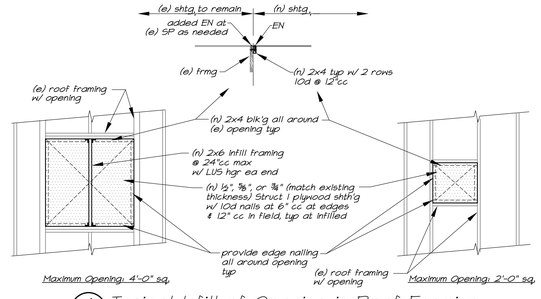
1 / S1.1 Typical Hanging Loads to 2x Connection 1 1/2"=1'-0"



2 / S1.1 Typical Connections for Cable Bracing at Mechanical Units 3/4"=1'-0"



3 / S1.1 Typical Hanger Rod Connection 1 1/2"=1'-0"



4 / S1.1 Typical Infill of Opening in Roof Framing 3/8"=1'-0"

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STUDIO W ARCHITECTS

Studio W Architects
1930 H street
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

MLA
1132 Suncast Lane, Suite 6
El Dorado Hills, CA 95762
phone: (916) 941-2425
fax: (916) 941-2429
STRUCTURAL ENGINEERS INC

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P WHITMORE No. C 30345 Ren.: 9/30/21 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER JOHN M. MANDSAGER No. 3824 Exp.09/30/24 STRUCTURAL STATE OF CALIFORNIA

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	DATE
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○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



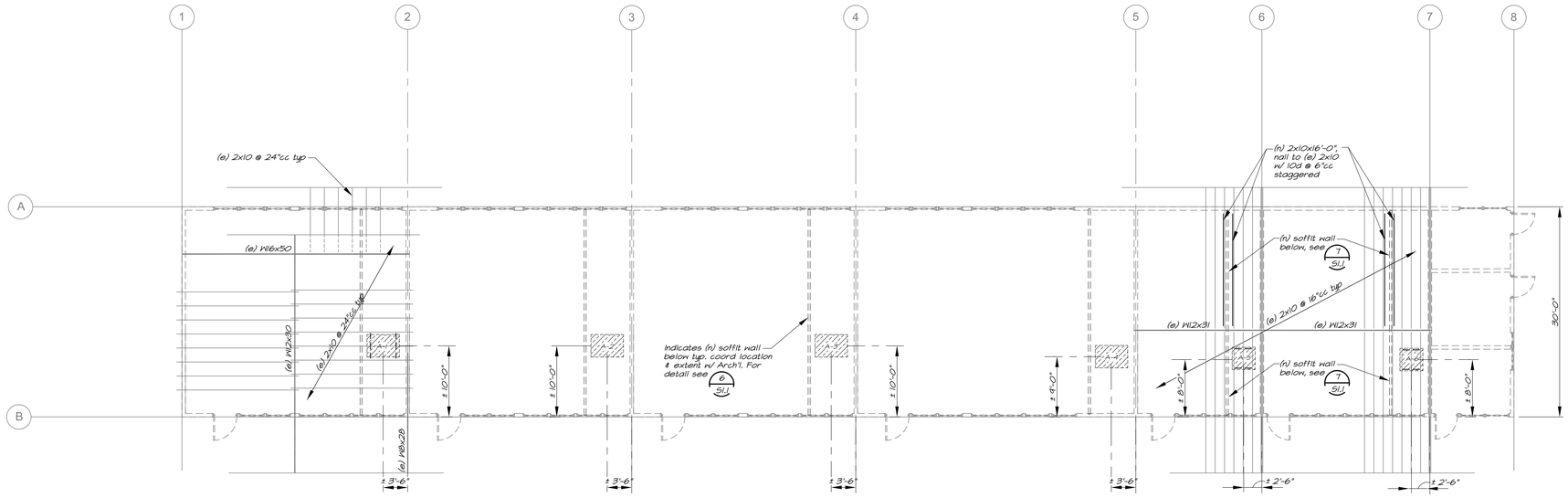
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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TYPICAL DETAILS

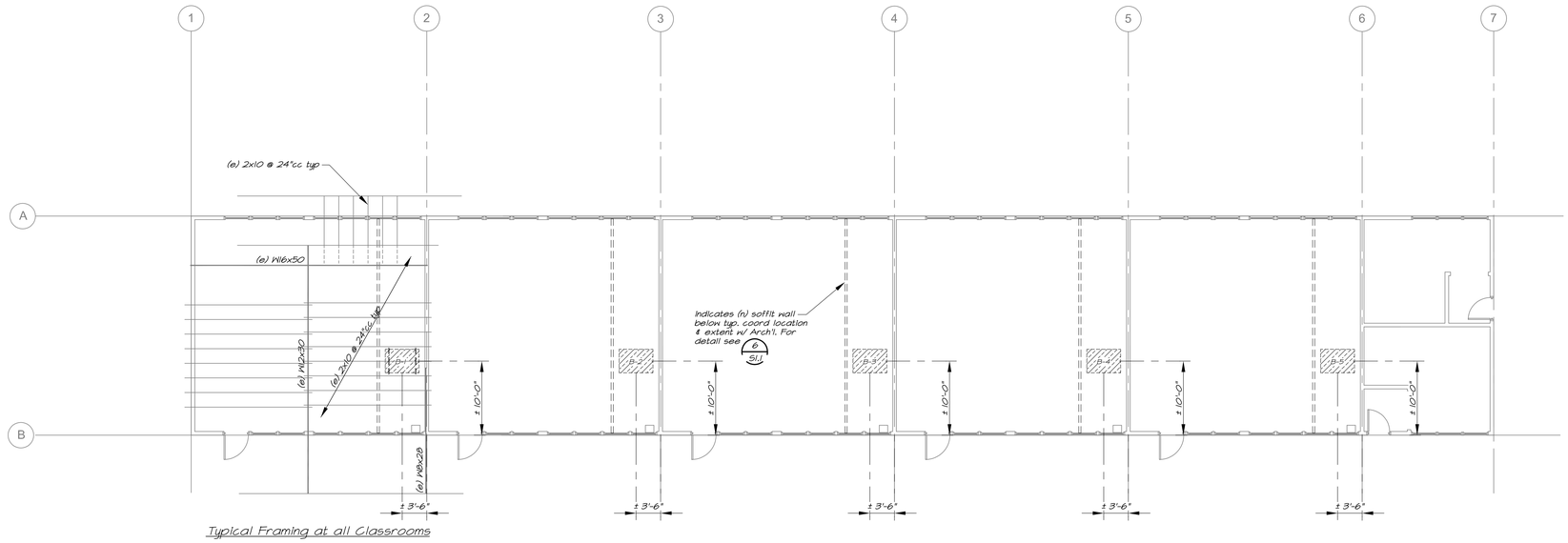
Date 04/24/2023
Project Number 22027
Application Number 01-120632
Drawing Number S1.1
Drawn GSL
Checked JMM



Typical Framing at all Classrooms

Partial Roof Framing Plan - Building A

1 / S2.1 — 1/8"=1'-0"



Typical Framing at all Classrooms

Partial Roof Framing Plan - Buildings B & D (C similar)

2 / S2.1 — 1/8"=1'-0"

Roof Framing Plan Notes:

1. Coordinate all dimensions with architectural drawings. Notify Architect of any discrepancies for resolution prior to proceeding.
2. See sheet S1.0 thru S1.1 for typical notes and details. These notes and details apply to all construction unless noted or detailed otherwise.
3. At wood framed roof areas, at misc. small openings that occur between framing members, provide blocking etc. per 5 S1.1
5. Existing roof openings to be infilled per 4 S1.1
6. A-1 — Indicates mechanical units. Coordinate/verify locations with mechanical drawings typ. Weights listed include weight of branch selectors where applicable. See mechanical drawings for anchorage details.

Unit/s	Max. Weight	Notes
A-1 thru A-4	250 lbs.	see 6/M0.3
A-5 & A-6	220 lbs.	see 6/M0.3
B-1 thru B-5	250 lbs.	see 6/M0.3

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STUDIO W ARCHITECTS

Studio W Architects
1930 H street
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

MLA
1132 Suncast Lane, Suite 6
El Dorado Hills, CA 95762
phone: (916) 941-2425
fax: (916) 941-2429
STRUCTURAL ENGINEERS INC

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P WHITMORE No. C 30345 Ren.: 9/30/21 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER JOHN M. MANDSAGER No. 3824 Exp.09/30/24 STRUCTURAL STATE OF CALIFORNIA

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REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

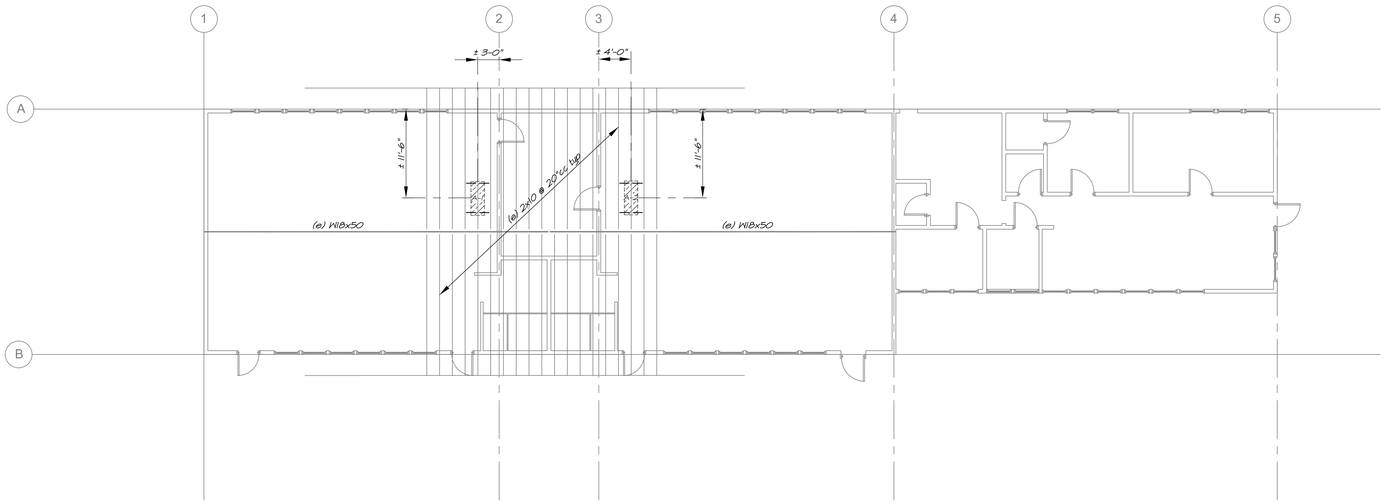
CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

PARTIAL ROOF FRAMING PLANS - BUILDINGS A, B, C, & D

Date 04/24/2023	Project Number 22027
Application Number 01-120632	Drawing Number S2.1
Drawn GSL	Checked JMM

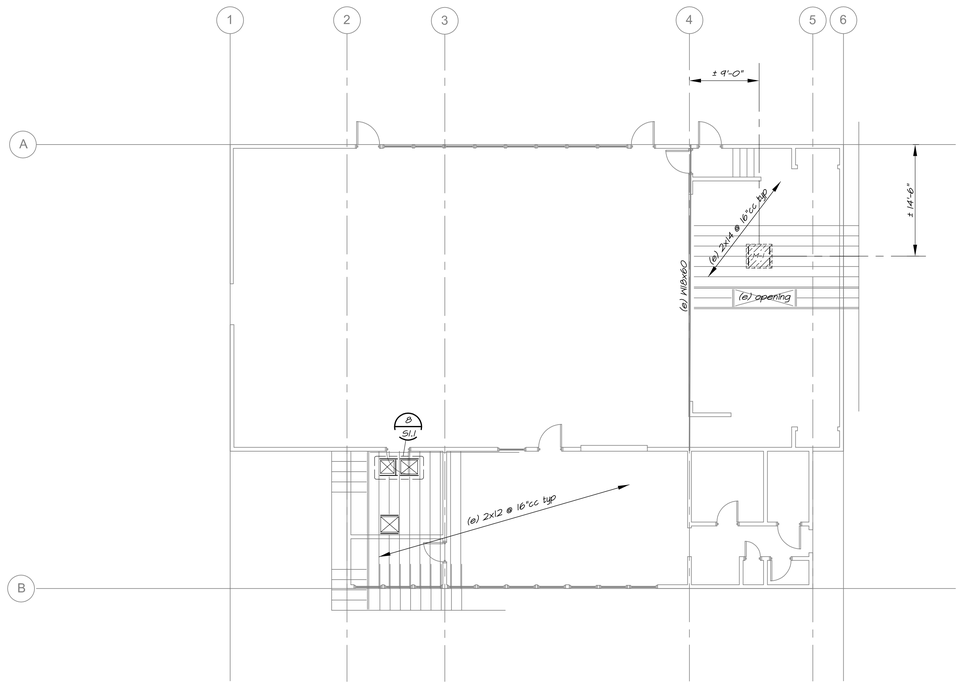


Partial Roof Framing Plan - Kinder-Admin (1 / S2.2) 1/8"=1'-0"

Roof Framing Plan Notes:

1. Coordinate all dimensions with architectural drawings. Notify Architect of any discrepancies for resolution prior to proceeding.
2. See sheet S1.0 thru S1.1 for typical notes and details. These notes and details apply to all construction unless noted or detailed otherwise.
3. At wood framed roof areas, at misc. small openings that occur between framing members, provide blocking etc. per (5 / S1.1)
5. Existing roof openings to be infilled per (4 / S1.1)
6. (M-1) Indicates mechanical units. Coordinate/verify locations with mechanical drawings typ. Weights listed include weight of branch selectors where applicable. See mechanical drawings for anchorage details.

Unit/s	Max. Weight	Notes
A-1 & A-2	250 lbs.	see 6/M0.3
M-1	120 lbs.	see 6/M0.3



Partial Roof Framing Plan - Multi-Purpose Building (2 / S2.2) 1/8"=1'-0"

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H street
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

MLA
1132 Suncast Lane, Suite 6
El Dorado Hills, CA 95762
phone: (916) 941-2425
fax: (916) 941-2429
STRUCTURAL ENGINEERS INC

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P WHITMORE No. C 30345 Ren.: 9/30/21 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER JOHN M. MANDSAGER No. 3824 Exp.09/30/24 STRUCTURAL STATE OF CALIFORNIA

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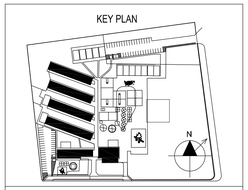
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	DATE
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○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

PARTIAL ROOF FRAMING PLANS - KINDER-ADMIN & MULTI-PURPOSE BUILDINGS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	S2.2
Drawn / Checked	
GSL / JMM	

EQUIPMENT ANCHORAGE NOTES

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 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7–16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE 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 APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. 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 WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE 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 AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

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 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE–APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT
☐ ☒ ☐ ☐ SPECIFIC NOTES AND DETAILS.

MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE–APPROVAL
☐ ☐ ☐ ☐ (OPM#) #0043–13.

ASHRAE 15:8.10.1 - CMC 1109.4.1

PROTECTION FROM MECHANICAL DAMAGE. PASSAGES SHALL NOT BE OBSTRUCTED BY REFRIGERANT PIPING. REFRIGERANT PIPING SHALL NOT BE LOCATED IN AN ELEVATOR, DUMBWAITER, OR OTHER SHAFT CONTAINING A MOVING OBJECT, OR IN A SHAFT THAT HAS OPENINGS TO LIVING QUARTERS, OR TO MEANS OF EGRESS. REFRIGERANT PIPING SHALL NOT BE INSTALLED IN AN ENCLOSED PUBLIC STAIRWAY, STAIR LANDING, OR MEANS OF EGRESS.

MECHANICAL LEGEND

SYMBOL	ITEM	ABBR.
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
	TRANSFER AIR	TA
M-1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
AC-1	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	
A 10x10-3 12in, 675	GRILLE DESIGNATION NECK SIZE & BLOW (4 UON) FIRE DAMPER WHERE REQ'D CFM	
	ACOUSTIC LINED DUCT	L
	TURNING VANES	TV
	DUCT FLEXIBLE CONNECTION	
	DUCT RISER	
	DUCT DROP	
	RECTANGULAR TO ROUND FITTING	
	VOLUME CONTROL DAMPER	VD
FD	FIRE DAMPER W/ ACCESS	FD
FSD	FIRE SMOKE DAMPER W/ ACCESS	FSD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
M	MOTORIZED DAMPER	
	TOP OF BOX	TOB
T	THERMOSTAT @ +48" AFF @ TOB	T-STAT
CO2	CO2 SENSOR @ +48" AFF @ TOB	
S	SENSOR @ +48" AFF @ TOB	
TC	TIMECLOCK @ +48" AFF @ TOB	
TCP	TEMPERATURE CONTROL PANEL	TCP
SD	DUCT SMOKE DETECTOR	SD
	PIPE RISER/DROP	(R)/(D)
	ABOVE FINISHED FLOOR	AFF
	UNLESS OTHERWISE NOTED	UON
	TYPICAL	(TYP)
	BOTTOM OF DUCT	BOD
	BOTTOM OF PIPE	BOP
	AUTOMATIC AIR VENT	AAV
	MANUAL AIR VENT	MAV
	TEMP. CONTROL CONTRACTOR	TCC
	TEMPERATURE CONTROL VALVE	TCV
	COMBUSTION AIR	CA
	NEW	(N)
	EXISTING	(E)
	POINT OF DIS/CONNECTION	POD/POC
	HEATING HOT WATER SUPPLY	HHWS
	HEATING HOT WATER RETURN	HHWR
	2-WAY CONTROL VALVE	
	BACKFLOW PREVENTER	BFP
	BALL VALVE	
	BUTTERFLY VALVE	
	CAP	
	CHECK VALVE	
	AUTOMATIC BALANCE VALVE (B&G ULTRA SET)	ABV
	AUTOMATIC BALANCE VALVE (B&G CIRCUIT SETTER)	CBV
	CONTROL VALVE (2-WAY)	
	FLEX CONNECTOR	FC
	FLOW ARROW	
	GATE VALVE	
	PRESSURE GAUGE	
	PLUG VALVE	
	REDUCER	
	STRAINER	
	TEMPERATURE SENSOR	TS
	TEST PORT (PETE'S PLUG)	PP
	THERMOMETER	
	TRIPLE DUTY VALVE	

MECHANICAL SPECIFICATIONS

A. THIS CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE, INCLUDING, BUT NOT LIMITED TO:
A.1. 2019 CALIFORNIA BUILDING CODE
A.2. 2019 CALIFORNIA MECHANICAL CODE
A.3. 2019 CALIFORNIA PLUMBING CODE
A.4. 2019 CALIFORNIA ELECTRICAL CODE
A.5. 2019 CALIFORNIA GREEN BUILDING STANDARDS
A.6. 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS – TITLE 24
A.7. NATIONAL FIRE PROTECTION ASSOCIATION
A.8. CALIFORNIA STATE FIRE MARSHAL

B. ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED ITEMS INSTALLED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER.

C. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF MECHANICAL EQUIPMENT.

D. CHECK AND VERIFY EXISTING CONDITIONS AT THE JOB SITE BEFORE BEGINNING WORK. ADJUST THE LOCATION AND CONFIGURATION OF THE WORK NECESSARY TO SUIT ACTUAL CONDITIONS AND OTHER TRADES. ANY CHANGES REQUIRED MUST FIRST BE APPROVED BY THE ARCHITECT OR ENGINEER.

E. THE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK AND SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. CHANGES REQUIRED TO SUIT EXISTING CONDITIONS AND DUE TO COORDINATION WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST TO THE OWNER.

F. SUBMIT MANUFACTURER'S PRODUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL, CAPACITY, OPTIONS, DIMENSIONS, WEIGHTS, INSTALLATION AND STARTUP DATA. EQUIPMENT PERFORMANCES SCHEDULED ARE MINIMUM CAPACITY, AIR FLOW, EFFICIENCY, ETC. REQUIRED. WEIGHTS AND ELECTRICAL DATA SCHEDULED IS MAXIMUM AVAILABLE OR ALLOWABLE.

G. ALL EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. USING ALL ACCESSORY EQUIPMENT AVAILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE SYSTEM. ALL EQUIPMENT OR ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION, CHECK ALL CONTROLS AND VERIFY THAT ALL SAFETY DEVICES ARE FUNCTIONING PROPERLY.

H. PROVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS MECHANICAL CONTROL SYSTEM COMPONENTS, FIRE/SMOKE DAMPERS, SMOKE DETECTORS, ETC., OR OTHER SYSTEMS REQUIRING ACCESS FOR MAINTENANCE, TESTING OR OBSERVATION. COORDINATE THE EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCEALED.

I. CHECK ALL PIPE AND DUCTWORK FOR LEAKS AND EXCESSIVE AIR LOSS AND NOISE. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER AND ARCHITECT OR ENGINEER THAT THE SYSTEM IS FUNCTIONING PROPERLY.

J. GALVANIZED STEEL DUCTS SHALL BE ASTM A 653/A 653M GALVANIZED STEEL SHEET, FORMING STEEL (FS) DESIGNATION, WITH G90/Z275 ZINC COATING.

K. FABRICATE, SUPPORT AND SEAL DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE, AND AS INDICATED. PROVIDE DUCT MATERIAL, GAGES, REINFORCING, AND SEALING FOR 4" STATIC PRESSURE UPSTREAM OF TERMINAL UNITS (VAV, CAV BOXES) AND 2" STATIC PRESSURE DOWNSTREAM OF TERMINAL UNITS (VAV, CAV BOXES).

L. CONSTRUCT DUCTWORK 1"S, BENDS, AND ELBOWS WITH RADIUS OF NOT LESS THAN 1–1/2 TIMES WIDTH OF DUCT ON CENTERLINE. WHERE NOT POSSIBLE RECTANGULAR ELBOWS MUST BE USED, PROVIDE AIR FOIL TURNING VANES. WHERE ACOUSTICAL LINING IS INDICATED, PROVIDE TURNING VANES OF PERFORATED METAL WITH GLASS FIBER INSULATION.

M. COMBINATION FIRE AND SMOKE DAMPERS SHALL MEET THE REQUIREMENTS OF NFPA 90A, UL 555, UL 555S, AND AS INDICATED. PROVIDE FACTORY SLEEVE AND COLLAR FOR EACH DAMPER.

N. ALL INSULATION AND LINER PRODUCTS SURFACE BURNING CHARACTERISTICS: FLAME SPREAD/SMOKE DEVELOPED INDEX OF 25/50, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E 84, NFPA 255, OR UL 723.

MECHANICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
M0.01	MECHANICAL LEGEND & NOTES
M0.02	MECHANICAL SCHEDULES
M0.03	MECHANICAL DETAILS
M1.00	MECHANICAL SITE PLAN
M3.10	MECHANICAL FLOOR PLAN BUILDING A
M3.11	MECHANICAL FLOOR PLAN BUILDING B
M3.12	MECHANICAL FLOOR PLAN BUILDING C
M3.13	MECHANICAL FLOOR PLAN BUILDING D
M3.14	MECHANICAL FLOOR PLAN ADMIN BUILDING
M3.15	MECHANICAL FLOOR PLAN MULTIPURPOSE BUILDING
M5.10	MECHANICAL CONTROLS
M5.11	MECHANICAL CONTROLS
M5.12	MECHANICAL PIPING AND WIRING DIAGRAM
M5.13	MECHANICAL PIPING AND WIRING DIAGRAM
M5.14	MECHANICAL PIPING AND WIRING DIAGRAM

DSA STAMP

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DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITTIKER No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER JORDAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

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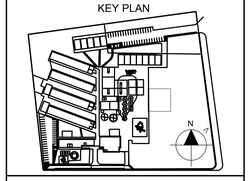
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KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

MECHANICAL LEGEND AND NOTES

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	M0.01
Drawn: KT	Checked: CD

AIR DISTRIBUTION SCHEDULE

SYMBOL	TYPE	DESCRIPTION
A	CEILING SUPPLY	STEEL LOUVERED FACE DIFFUSER WITH FRAME FOR LAY-IN T-BAR MOUNTING. TITUS MODEL MCD.
B	CEILING RETURN	EGGCRATE GRILLE WITH 1/2"x1/2"x1/2" GRID, FRAME FOR LAY-IN T-BAR MOUNTING. TITUS MODEL 50R.
C	CEILING SUPPLY	STEEL LOUVERED FACE DIFFUSER WITH FRAME FOR SURFACE MOUNTING. TITUS MODEL MCD.
D	CEILING RETURN	EGGCRATE GRILLE WITH 1/2"x1/2"x1/2" GRID, FRAME FOR SURFACE MOUNTING. TITUS MODEL 50R.
E	CEILING EXHAUST	EGGCRATE GRILLE WITH 1/2"x1/2"x1/2" GRID, FRAME FOR SURFACE MOUNTING. TITUS MODEL 50R.
F	DUCT MOUNT SUPPLY	DOUBLE DEFLECTION, INDIVIDUALLY ADJUSTABLE BLADES WITH 3/4" SPACING FOR DUCT MOUNTING, AIR SCOOP DAMPER EXTRACTOR. TITUS MODEL S300FL.
H	SIDEWALL SUPPLY	DOUBLE DEFLECTION, ADJUSTABLE FRONT HORIZONTAL BLADE REGISTER WITH 3/4" BLADE SPACING. TITUS MODEL 300RL.
I	SIDEWALL RETURN/ EXHAUST	SINGLE DEFLECTION, FIXED BLADE, 35° DEFLECTION, 3/4" BLADE SPACING, FRAME FOR SURFACE MOUNTING, OBD TITUS MODEL 350RL.
L	DOOR LOUVER	EXTRUDED ALUMINUM STORM PROOF LOUVER, COLOR BY ARCHITECT, PROVIDE VANDAL ROOF SECURITY SCREW FASTENERS. ANEMOSTAT MODEL SRDL.

NOTES:
1. EQUIVALENT MODELS OF TUTTLE & BAILEY, KRUEGER, ENVIROMENTAL AIR PRODUCTS, OR J & J ARE ACCEPTABLE. REFER TO THE MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN, AND FIRE DAMPER, IF REQUIRED.

FAN COIL SCHEDULE

TYPE	MARK	MOUNTING	ELECTRICAL VOLT	PHASE	MCA	MOCP	BLOWER WATTS	CFM	E.S.P. (IN WC)	RPM	MIN. OSA (CFM)	COOLING TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	E.A. DB (°F)	E.A. WB (°F)	AMBIENT TEMP (°F)	TYPE	HEATING TOTAL CAPACITY (BTUH)	E.A. DB (°F)	AMBIENT TEMP (°F)	FILTER TYPE	SERVICE	OPERATING WEIGHT (LBS.)	MFGR	MODEL	NOTES
FC	MP–1 TO MP–2	VERTICAL	208	1	8.6	15	–	1,800	0.9	–	SEE OSA SCHD.	54,000	39,300	–	–	94	DX	60,000	–	29	MERV–13	HP–MP–1	230	DAIKIN	FXTQ54	PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING DIAGRAMS FOR ADDITIONAL INFORMATION. INSTALL DUCT SMOKE DETECTOR IN SUPPLY AIR PLENUM TO SHUT–OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH THE 2019 CALIFORNIA MECHANICAL CODE, SECTION 609. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR. COORDINATE WITH CONTROL CONTRACTOR FOR CONTROL SCOPE. VRF MAIN CONTROL PANEL LOCATION TBD. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.
FC	MP–3	CASSETTE	208	1	0.7	15	–	777	–	–	SEE OSA SCHD.	23,000	20,000	–	–	94	DX	27,000	–	29	N/A	HP–MP–1	62	DAIKIN	FXFQ24	PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.
FC	AD–1 TO AD–2	HORIZONTAL	208	1	3.4	15	–	1,380	0.8	–	SEE OSA SCHD.	48,000	35,800	–	–	94	DX	54,000	–	29	MERV–13	HP–AD–1 TO HP–AD–2	160	DAIKIN	FXMQ48	PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.
FC	AD–3	VERTICAL	208	1	6.5	15	–	1,520	0.9	–	SEE OSA SCHD.	48,000	32,700	–	–	94	DX	54,000	–	29	MERV–13	HP–AD–3	216	DAIKIN	FTQ48	PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.
FC	A–1 TO A–3	HORIZONTAL	208	1	3.4	15	–	1,377	0.8	–	SEE OSA SCHD.	48,000	35,800	–	–	94	DX	54,000	–	29	MERV–13	HP–A–1	160	DAIKIN	FXMQ48	PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.
FC	A–4	HORIZONTAL	208	1	3.4	15	–	1,624	0.56	–	SEE OSA SCHD.	54,000	40,300	–	–	94	DX	60,000	–	29	MERV–13	HP–A–1	161	DAIKIN	FXMQ54	PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.
FC	A–5	HORIZONTAL	208	1	1.6	15	–	635	0.8	–	SEE OSA SCHD.	18,000	15,600	–	–	94	DX	20,000	–	29	MERV–13	HP–A–1	124	DAIKIN	FXMQ18	PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.
FC	A–6	HORIZONTAL	208	1	1.8	15	–	688	0.8	–	SEE OSA SCHD.	24,000	18,800	–	–	94	DX	27,000	–	29	MERV–13	HP–A–1	124	DAIKIN	FXMQ24	PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.
FC	B–1 TO B–5	HORIZONTAL	208	1	3.4	15	–	1,377	0.8	–	SEE OSA SCHD.	48,000	35,800	–	–	94	DX	54,000	–	29	MERV–13	HP–B–1	160	DAIKIN	FXMQ48	PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.
FC	C–1 TO C–5	HORIZONTAL	208	1	3.4	15	–	1,377	0.8	–	SEE OSA SCHD.	48,000	35,800	–	–	94	DX	54,000	–	29	MERV–13	HP–C–1	160	DAIKIN	FXMQ48	PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.
FC	D–1 TO D–5	HORIZONTAL	208	1	3.4	15	–	1,377	0.8	–	SEE OSA SCHD.	48,000	35,800	–	–	94	DX	54,000	–	29	MERV–13	HP–D–1	160	DAIKIN	FXMQ48	PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.

BRANCH SELECTOR BOX SCHEDULE

TYPE	MARK	MOUNTING TYPE	ELECTRICAL VOLT	PHASE	MCA	MOCP	REFRIGERANT	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	SERVICE	OPERATING WEIGHT (LBS.)	MFGR	MODEL	NOTES
BS	A–1 TO A–4	CEILING	208	1	0.10	15	R–410A	60,000	–	HP–A–1	35	DAIKIN	BSQ60TAVJ	SERVICES FC–MP–1, FC–MP–2, AND FC–MP–3 FROM HP–MP–1. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE ISOLATION VALVES FOR SERVICING OF BRANCH SELECTOR BOX AND FAN COIL UNIT. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS.
BS	A–5 TO A–6	CEILING	208	1	0.10	15	R–410A	36,000	–	HP–A–1	33	DAIKIN	BSQ36TVJ	SERVICES FC–MP–1, FC–MP–2, AND FC–MP–3 FROM HP–MP–1. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE ISOLATION VALVES FOR SERVICING OF BRANCH SELECTOR BOX AND FAN COIL UNIT. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS.
BS	B–1 TO B–5	CEILING	208	1	0.10	15	R–410A	60,000	–	HP–B–1	35	DAIKIN	BSQ60TAVJ	SERVICES FC–MP–1, FC–MP–2, AND FC–MP–3 FROM HP–MP–1. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE ISOLATION VALVES FOR SERVICING OF BRANCH SELECTOR BOX AND FAN COIL UNIT. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS.
BS	C–1 TO C–5	CEILING	208	1	0.10	15	R–410A	60,000	–	HP–C–1	35	DAIKIN	BSQ60TAVJ	SERVICES FC–MP–1, FC–MP–2, AND FC–MP–3 FROM HP–MP–1. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE ISOLATION VALVES FOR SERVICING OF BRANCH SELECTOR BOX AND FAN COIL UNIT. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS.
BS	D–1 TO D–5	CEILING	208	1	0.10	15	R–410A	60,000	–	HP–D–1	35	DAIKIN	BSQ60TAVJ	SERVICES FC–MP–1, FC–MP–2, AND FC–MP–3 FROM HP–MP–1. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE ISOLATION VALVES FOR SERVICING OF BRANCH SELECTOR BOX AND FAN COIL UNIT. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS.
BS	MP–1 TO MP–2	CEILING	208	1	0.10	15	R–410A	36,000	–	HP–MP–1	33	DAIKIN	BS4Q54TAVJ	SERVICES FC–MP–1, FC–MP–2, AND FC–MP–3 FROM HP–MP–1. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE ISOLATION VALVES FOR SERVICING OF BRANCH SELECTOR BOX AND FAN COIL UNIT. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS.

GRAVITY VENTILATOR SCHEDULE

TYPE	MARK	MOUNTING	AIRFLOW CFM	THROAT SIZE (IN.)	THROAT AREA (SF)	THROAT VELOC. (FPM)	PRESS. DROP. (IN–WC)	CONTROL	OPER. WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER
RH	AD–1 TO AD–2	ROOF	460	14X14	1.36	338	0.019	GRAVITY DAMPER	50	GREENHECK	FGR–14X14
RH	A–1	ROOF	370	12X12	1	370	0.023	GRAVITY DAMPER	45	GREENHECK	FGR–12X12
RH	A–2 TO A–3	ROOF	365	12X12	1	365	0.018	GRAVITY DAMPER	45	GREENHECK	FGR–12X12
RH	A–4	ROOF	360	12X12	1	360	0.022	GRAVITY DAMPER	45	GREENHECK	FGR–12X12
RH	B–1	ROOF	370	12X12	1	370	0.023	GRAVITY DAMPER	45	GREENHECK	FGR–12X12
RH	B–2 TO B–5	ROOF	365	12X12	1	365	0.018	GRAVITY DAMPER	45	GREENHECK	FGR–12X12
RH	C–1	ROOF	370	12X12	1	370	0.023	GRAVITY DAMPER	45	GREENHECK	FGR–12X12
RH	C–2 TO C–5	ROOF	365	12X12	1	365	0.018	GRAVITY DAMPER	45	GREENHECK	FGR–12X12
RH	D–1	ROOF	370	12X12	1	370	0.023	GRAVITY DAMPER	45	GREENHECK	FGR–12X12
RH	D–2 TO D–5	ROOF	365	12X12	1	365	0.018	GRAVITY DAMPER	45	GREENHECK	FGR–12X12
RH	MP–1	ROOF	1990	28X28	5.44	366	0.023	GRAVITY DAMPER	90	GREENHECK	FGR–28X28
IH	MP–1	ROOF	2500	32X32	7.11	352	0.021	GRAVITY DAMPER	145	GREENHECK	FGR–32X32
IH	MP–2	ROOF	1940	28X28	5.44	356	0.022	GRAVITY DAMPER	140	GREENHECK	FGR–28X28

NOTES:
1. PROVIDE FACTORY ROOF CURB.
2. PROVIDE FACTORY BIRDSCREEN AND INSECT SCREEN.
3. PROVIDE COUNTERBALANCED GRAVITY BACKDRAFT DAMPER INSTALLED FOR BUILDING INTAKE/RELIEF AS INDICATED AND SET TO OPEN AT 0.05" W.G..

OUTSIDE AIR SCHEDULE

SYSTEM NAME	MIN. OSA CFM	MAX. OSA CFM	DEMAND CONTROL VENT. (Y/N)
FC–A–1	370	–	N
FC–A–2	365	–	N
FC–A–3	365	–	N
FC–A–4	180	–	N
FC–A–5	85	–	N
FC–A–6	360	–	N
FC–B–1	370	–	N
FC–B–2	365	–	N
FC–B–3	365	–	N
FC–B–4	365	–	N
FC–B–5	365	–	N
FC–C–1	370	–	N
FC–C–2	365	–	N
FC–C–3	365	–	N
FC–C–4	365	–	N
FC–C–5	365	–	N
FC–D–1	370	–	N
FC–D–2	365	–	N
FC–D–3	365	–	N
FC–D–4	365	–	N
FC–D–5	365	–	N
FC–AD–1	460	–	N
FC–AD–2	460	–	N
FC–AD–3	165	–	N
FC–MP–1	795	–	N
FC–MP–2	795	–	N
FC–MP–3	50	–	N

* OSA TO BE PER TITLE 24, 2019 BUILDING ENERGY EFFICIENY STANDARDS, SECTION 120.1, REQUIREMENTS.

* DEMAND VENTILATION CONTROLS SHALL MAINTAIN CO2 CONCENTRATIONS LESS THAN OR EQUAL TO 600 PPM PLUS THE OUTDOOR AIR CO2 CONCENTRATIONS IN ALL ROOMS WITH CO2 SENSORS.

OUTDOOR UNIT SCHEDULE

TYPE	MARK	ODU TYPE	MOUNTING TYPE	ELECTRICAL VOLT	PHASE	MCA	MOCP	SEER/ EER	HPSF	REFRIGERANT	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	SERVICE	OPERATING WEIGHT (LBS.)	MFGR	MODEL	NOTES
HP	MP–1	VRV	FLOOR	208	3	47.8	50	–/ 12.00	–	R–410A	138,000	154,000	SEE PLAN	942	DAIKIN	REYQ144	COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE FACTORY CONDENSER COIL HAIL GUARDS. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT PIPING WITH MANUFACTURER FOR SIZING, INSTALLATION AND CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS.
HP	AD–1 TO AD–3	DX	FLOOR	208	1	29.1	35	14.8/ 9.5	–	R–410A	48,000	54,000	SEE PLAN	270	DAIKIN	RZQ48	COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE FACTORY CONDENSER COIL HAIL GUARDS. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT PIPING WITH MANUFACTURER FOR SIZING, INSTALLATION AND CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS.
HP	A–1 B–1 C–1 D–1	VRV	FLOOR	208	3	73.7	80	–/ 10.80	–	R–410A	228,000	256,000	SEE PLAN	1,149	DAIKIN	REYQ240	COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE FACTORY CONDENSER COIL HAIL GUARDS. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT PIPING WITH MANUFACTURER FOR SIZING, INSTALLATION AND CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS.

FAN SCHEDULE

TYPE	MARK	FAN TYPE	MOUNT	ELECTRICAL HP	WATTS	VOLT	PHASE	CFM	E.S.P. (IN.WC)	DRIVE	FAN RPM	SONES (FPM)	SERVICE	CONTROL	OPERATING WEIGHT	MANUFACTURER	MODEL	NOTES
CEF	MP–1	CENTRIFUGAL	CEILING	–	81	115	1	150	0.25	DIRECT	751	0.7	TOILET A05	LIGHTS	30	GREENHECK	SP–A290	PROVIDE BACK DRAFT DAMPER, PROVIDE MOUNTING KIT, PROVIDE FACTORY PRE–WIRED DISCONNECT SWITCH. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE WITH FACTORY ALUMINUM GRILLE. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
CEF	AD–1	CENTRIFUGAL	CEILING	–	18	115	1	100	0.25	DIRECT	1053	0.5	TOILET B05	LIGHTS	25	GREENHECK	SP–A125	PROVIDE BACK DRAFT DAMPER, PROVIDE MOUNTING KIT, PROVIDE FACTORY PRE–WIRED DISCONNECT SWITCH. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE WITH FACTORY ALUMINUM GRILLE. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
CEF	AD–2	CENTRIFUGAL	CEILING	–	12	115	1	50	0.25	DIRECT	827	0.3	TOILET B04	LIGHTS	25	GREENHECK	SP–A70	PROVIDE BACK DRAFT DAMPER, PROVIDE MOUNTING KIT, PROVIDE FACTORY PRE–WIRED DISCONNECT SWITCH. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE WITH FACTORY ALUMINUM GRILLE. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	AD–1	CENTRIFUGAL	ROOF	1/15	–	115	1	200	0.25	DIRECT	1364	3.2	TOILET C03	INTERLOCK W/FAN COIL	40	GREENHECK	G–070–VG	PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	AD–2	CENTRIFUGAL	ROOF	1/15	–	115	1	200	0.25	DIRECT	1364	3.2	TOILET C02	INTERLOCK W/FAN COIL	40	GREENHECK	G–070–VG	PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	A–1	CENTRIFUGAL	ROOF	1/15	–	115	1	200	0.25	DIRECT	1364	3.2	MENS A7	LIGHTS	40	GREENHECK	G–070–VG	PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	A–2	CENTRIFUGAL	ROOF	1/15	–	115	1	200	0.25	DIRECT	1364	3.2	CUSTODIAN A8	LIGHTS	40	GREENHECK	G–070–VG	PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	A–3	CENTRIFUGAL	ROOF	1/15	–	115	1	200	0.25	DIRECT	1364	3.2	GIRLS A9	LIGHTS	40	GREENHECK	G–070–VG	PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	B–1	CENTRIFUGAL	ROOF	1/4	–	115	1	500	0.25	DIRECT	877	3.2	BOYS B6	BMS	65	GREENHECK	G–100–VG	PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	B–2	CENTRIFUGAL	ROOF	1/4	–	115	1	500	0.25	DIRECT	877	3.2	GIRLS B7	BMS	65	GREENHECK	G–100–VG	PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	C–1	CENTRIFUGAL	ROOF	1/10	–	115	1	300	0.25	DIRECT	1058	4.2	CUSTODIAN C9	LIGHTS	55	GREENHECK	G–90–VG	PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	D–1	CENTRIFUGAL	ROOF	1/4	–	115	1	500	0.25	DIRECT	877	3.2	BOYS D6	BMS	65	GREENHECK	G–100–VG	PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	D–2	CENTRIFUGAL	ROOF	1/4	–	115	1	500	0.25	DIRECT	877	3.2	BOYS D7	BMS	65	GREENHECK	G–100–VG	PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
SF	MP–1	CENTRIFUGAL	CEILING	3/4	–	115	1	2,500	0.5	DIRECT	1068	10.2	MECH. RM A02	INTERLOCK WITH (E) TYPE 1 HOOD EF	160	GREENHECK	SQ–160–VG	PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. MERV 13 FILTER BOX, SPRING ISOLATORS. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.

DSA STAMP

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DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

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MEP & FS / Sustainability / CxA
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p 916-771-0778
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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITTEMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03–31–23 MECHANICAL STATE OF CALIFORNIA

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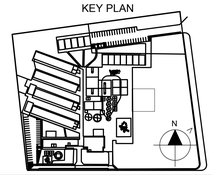
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

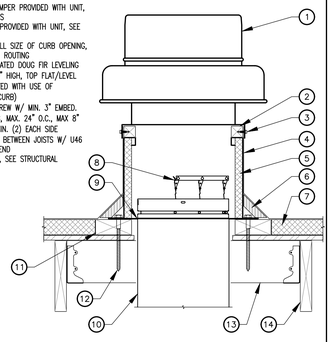
CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

MECHANICAL SCHEDULES

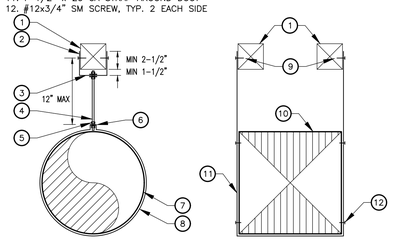
Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	M0.02
Drawn KT	Checked CD

1. ROOF EXHAUST FAN, SEE SCHEDULES
2. WOOD NAILER PROVIDED WITH UNIT CURB
3. #12 TEK SCREWS WITH MIN. 3/4" EMBED. INTO WOOD NAILER, MIN. (2) PER SIDE. SILICONE SEAL PENETRATIONS WATERTIGHT
4. ROOFING UP AND UNDER FAN FLASHING
5. UNIT CURB, SEE SCHEDULES
6. CANT STRIP
7. ROOF INSULATION FORMED TO MEET CURB WHERE APPLICABLE, SEE ARCHITECTURAL DRAWINGS
8. BACKDRAFT DAMPER PROVIDED WITH UNIT, SEE SCHEDULES
9. DAMPER TRAY PROVIDED WITH UNIT, SEE SCHEDULES
10. DUCTWORK, FULL SIZE OF CURB OPENING, SEE PLAN FOR ROUTING
11. PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN. 2" HIGH, TOP FLAT/LEVEL (MAY BE OMITTED WITH USE OF PRE-SLOPED CURB)
12. 3/8"ø LAG SCREW W/ MIN. 3" EMBED. INTO BLOCKING, MAX. 24" O.C., MAX 8" FROM ENDS, MIN. (2) EACH SIDE
13. 4X6 BLOCKING BETWEEN JOISTS W/ U46 HANGERS EA. END
14. ROOF FRAMING, SEE STRUCTURAL



M0SSA01A — ROOFTOP EXHAUST FAN (WOOD) — NTS — 11

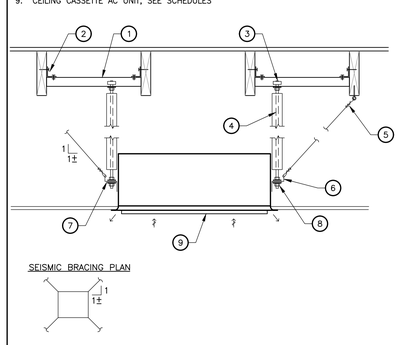
1. 4x4 BLOCKING BETWEEN JOISTS WITH U44 HANGERS AT EACH END, TYP.
2. #12x1-1/2" WOOD SCREWS, 2 PER SIDE
3. 3 WIDE x 16 GA BENT PLATE
4. 3/8"ø THREADED ROD
5. 3/8" NUT & 2" WASHER, TYP. TOP AND BOTTOM OF FLANGE
6. 2-1/2" WIDE X 20 GA STRAP WITH MIN. 3"x2" HIGH FLANGE, TYP.
7. ROUND DUCT
8. 2-1/2" x 20 GA STRAP
9. 1/4"øx1-1/4" LAG BOLT, TYP. 2 EACH END
10. RECTANGULAR DUCT
11. 1-1/2" x 20 GA STRAP AROUND DUCT
12. #12x3/4" SM SCREW, TYP. 2 EACH SIDE



NOTE:
1. SUPPORT DUCTWORK AT 8'-0" O.C.
2. BLOCKING CONDITION IS SHOWN, 2x JOIST CONDITION IS SIMILAR WITH STRAPS AND LAG BOLTS ATTACHING DIRECTLY TO 2x ROOF JOISTS.
3. PER 2019 CBC, SEISMIC RESTRAIN IS NOT REQUIRED FOR RECTANGULAR DUCTS LESS THAN 6 SQ. FT. CROSS SECTION OR ROUND DUCTS LESS THAN 28"ø.

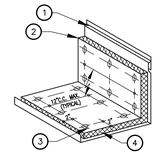
M0SSA01A — TYPICAL DUCT SUPPORT DETAIL — NTS — 8

1. 1-5/8" UNISTRUT CHANNEL BETWEEN (E) JOISTS
2. UNISTRUT P1026 ANGLE, SECURE TO (E) JOISTS W/ 3/8"ø X 1-1/2" LAG SCREW, SECURE TO CHANNEL W/ 3/8"ø BOLT AND CHANNEL NUT, TYP EACH END
3. CHANNEL NUT, TYP
4. 3/8"ø THREADED ROD WITH UNISTRUT P1000T CHANNEL STIFFENER, TYP 4 AT EACH CORNER. PROVIDE CHANNEL WITH 3/8"ø BOLTS AT 10" MAX O.C.
5. 12 GA SLACK WIRE, TYP 4, (4) TIGHT TURNS WITH 1-1/2", TYP AT EACH END
6. 3"x2"x2" WIDE 16 GA. ANGLE, TYP
7. HANGER BRACKET PROVIDED BY FAN MANUFACTURER
8. LOCKNUT, TYP
9. CEILING CASSETTE AC UNIT, SEE SCHEDULES

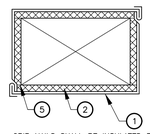


M0SSA03C — CASSETTE INDOOR UNIT MOUNTING — DETAIL SCALE? — 5

1. GALVANIZED SHEET METAL DUCT.
2. 1" THICK ACOUSTIC DUCT LINER, LINER TO BE ADHERED TO DUCT. w/ 100% ADHESIVE (MIRACLE PF96)
3. NOT MORE THAN 2" FROM LEDGE OF DUCT LINER.
4. ALL ENDS OF LINER TO BE COATED WITH ADHESIVE. (MIRACLE PF96). ENDS OF LINER SHALL BE BUTTED FIRMLY TOGETHER.
5. TOP AND BOTTOM SECTIONS OF LINER SHALL OVERLAP THE SIDES.



METAL FASTENERS: OMARK INSUL-PINS. DURA DYNE FASTENERS OR GRIP NAILS.



GRIP NAILS SHALL BE INSULATED BY " GRIP NAIL AIR-HAMMER" OR BY AUTOMATIC FASTENER EQUIPMENT.

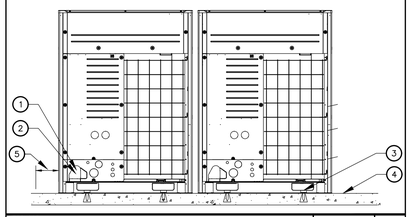
M0SSA02A — ACOUSTIC LINED DUCTS — NTS — 1

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS, &/OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1) AT JOINTS: MIN. HT. IN.	DRIVE SLIP / PLAIN S SLIP: RECOM-MENDED GAGE	HEMMED S SLIP: RECOM-MENDED GAGE	ALTER'NT BAR SLIP: RECOM-MENDED GAGE	REINFORCED BAR SLIP: RECOM-MENDED GAGE
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 – 18	24	NONE REQUIRED	1	24	24	24	24
19 – 30	24	1" x 1" x 1/8" @ 60 IN.	1		24	24	24
31 – 42	22	1" x 1" x 1/8" @ 60 IN.	1			22	22

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

M0USC01A — DUCT CONSTRUCTION STANDARDS — NTS — 2

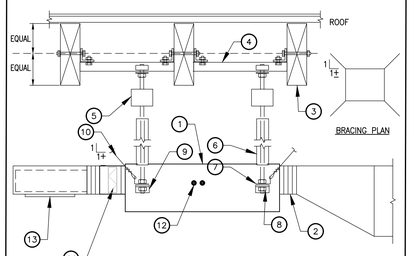
1. ACCESS TO REFRIGERANT SUCTION LINE CONNECTION.
2. ACCESS TO REFRIGERANT DISCHARGE LINE CONNECTION.
3. 1/2"ø DIA SIMPSON STRONG BOLT-2 STAINLESS STEEL EXPANSION ANCHORS, 4" MIN EMBEDMENT. TORQUE TEST TO 65 FT-LBS. (TYP. 4 PER SECTION)
4. (N) CONCRETE PAD PER STRUCTURAL DRAWINGS.
5. MIN. 18" ALL AROUND UNIT.



M0SSA02B — HEAT PUMP UNIT MOUNTING DETAIL — NTS — 12

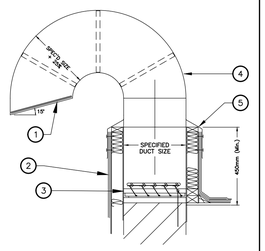
NOT USED — NTS — -

1. FAN COIL, SEE SCHEDULE
2. FLEXIBLE CONNECTOR, TYP
3. WOOD JOIST, TYP.
4. UNISTRUT P1000 CHANNEL BETWEEN JOISTS, WITH P1821, 3" BY 1-7/8", AT EA. END, SECURE TO JOIST WITH (2) 3/8"ø THRU BOLT, SECURE TO CHANNEL WITH 3/8"ø BOLT AND CHANNEL NUT, TYP. EACH END
5. MASON PC3GN VIBRATION ISOLATORS, 1-1/2" DEFLECTION, TYP 4
6. 3/8"ø THREADED ROD WITH UNISTRUT P1000T CHANNEL STIFFENER WITH 3/8" BOLTS AT 10" O.C. MAX OVER ROD LENGTH, TYP 4
7. 3"x2"x2" WIDE x 16 GA. ANGLE, TYP
8. LOCKNUT, TYP
9. HANGING BRACKET BY FAN COIL MFR.
10. 12 GA SLACK WIRE, TYP 4, (4) TIGHT TURNS WITHIN 1-1/2", TYP EACH END. CONNECT TO STRUCTURE PER 2/S1.1.
11. FILTER BOX
12. LIQUID AND VAPOR REFRIGERANT LINE CONNECTIONS.
13. RETURN AIR OPENING WITH 1"x1" WIRE MESH. SEE LOCATION ON PLANS.



M0SSA04B — FAN COIL MOUNTING DETAIL — NTS — 6

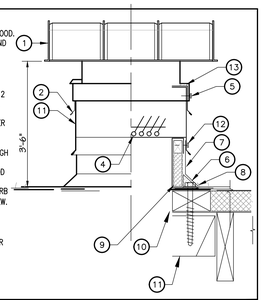
1. STAINLESS STEEL MESH BIRDSCREEN.
2. FIELD-BUILT WOODEN CURB BY ARCH.
3. MANUAL VOLUME DAMPER.
4. MIN. 18GA. SEAMLESS WELDED STAINLESS STEEL GOOSENECK INTAKE AIR HOOD. PROVIDE INTERNAL BRACING AS REQ'D.
5. DRIP FLASHING; FASTEN ALL AROUND TO CURB.



OUTSIDE AIR INTAKE — NTS — 3

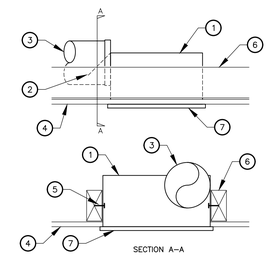
1. ROOF MOUNTED INTAKE/RELIEF HOOD.
2. GALV. SHT. MTL. FLASHING AROUND CURB. (CURB TO BE FURNISHED WITH HOOD).
* 3. METAL DECKING SEE ARCH.
4. BACKDRAFT DAMPER.
5. SECURE HOOD TO CURB WITH #12 GALV SCREWS, MIN. 4 PER SIDE.
* 6. CANT STRIP. ALL AROUND CURB.
* 7. ROOFING UP AND UNDER COUNTER FLASHING.
* 8. PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN 1-1/2" HIGH
9. ROOF CURB BY HOOD MFG.
10. CURB EXTENSION BY INTAKE HOOD MFG.
11. SECURE CURB EXTENSION TO CURB WITH 1/4" DIAMETER WOOD SCREW. MIN. 4 PER SIDE.
12. 2" X 1/4" CONTINUOUS DENSE NEOPRENE SPONGE GASKET.
13. PROVIDE 2-#12 SMS, MIN. 4 PER SIDE.

* (BY GENERAL CONTRACTOR)



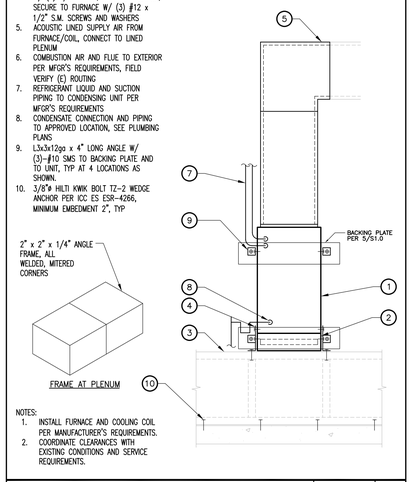
M0SSA12E — INTAKE/RELIEF HOOD MOUNTING — NTS — 13

1. CEILING EXHAUST FAN, SEE SCHEDULE
2. BACKDRAFT DAMPER FURNISHED WITH FAN
3. DUCTWORK, SEE PLAN FOR SIZE AND ROUTING
4. FINISHED CYP BOARD CEILING
5. #10 X 1-1/2" WOOD SCREWS, MIN (2) PER SIDE
6. 2X BLOCKING AROUND FAN, ATTACH TO CEILING FRAMING WITH LUS HANGERS EA AND TYP.
7. CEILING GRILLE FURNISHED WITH FAN



M0SSA01A — EXHAUST FAN - CEILING MOUNTING (CEF) — NTS — 10

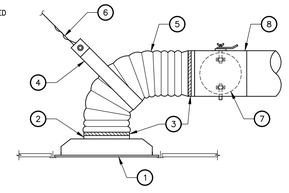
1. FAN COIL UNIT, SEE SCHEDULE
2. FILTER BOX PER FAN COIL MFGR
3. RETURN AIR PLENUM WITH ANGLE IRON FRAME
4. 2-1/2"x6"x1/8" ANGLE BOTH SIDES, BOLT TO RETURN AIR PLENUM FRAME W/ (3) 3/8" BOLTS, NUTS & WASHERS, SECURE TO FURNACE W/ (3) #12 x 1/2" S.M. SCREWS AND WASHERS
5. ACOUSTIC LINED SUPPLY AIR FROM FURNACE/COIL, CONNECT TO LINED PLENUM
6. COMBUSTION AIR AND FLUE TO EXTERIOR PER MFGR'S REQUIREMENTS, FIELD VERIFY (E) ROUTING
7. REFRIGERANT LIQUID AND SUCTION PIPING TO CONDENSING UNIT PER MFGR'S REQUIREMENTS
8. CONDENSATE CONNECTION AND PIPING TO APPROVED LOCATION, SEE PLUMBING PLANS
9. L3x3x12ga x 4" LONG ANGLE W/ (3)-#10 SMS TO BACKING PLATE AND TO UNIT, TYP AT 4 LOCATIONS AS SHOWN.
10. 3/8"ø HILTI KWIK BOLT TZ-2 WEDGE ANCHOR PER ICC ES ESR-4266, MINIMUM EMBEDMENT 2", TYP



NOTES:
1. INSTALL FURNACE AND COOLING COIL PER MANUFACTUREER'S REQUIREMENTS.
2. COORDINATE CLEARANCES WITH EXISTING CONDITIONS AND SERVICE REQUIREMENTS.

FAN COIL MOUNTING — NTS — 7

1. GRILLE/DIFFUSER
2. ADAPTER WHERE REQUIRED
3. STEEL LOCKING STRAP
4. 4" WIDE SHEET STRAP
5. ACOUSTICAL FLEX DUCT, MIN. 150% RADIUS ELBOW, MAX. 5 FT LENGTH
6. 12 GA. WIRE ATTACHED TO STRUCTURE PER 1/S1.1
7. VOLUME DAMPER
8. SHEET METAL DUCTWORK



M0UEQ01D — DIFFUSER/GRILLE INSTALLATION — NTS — 4

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Studio W Architects
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Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

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p 916-771-0778
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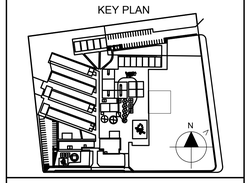
ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS No. M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

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DRAWING STATUS	DATE
○ DSA PLAN CHECK	12/23/2022
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○ BIDDING	
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KEY PLAN



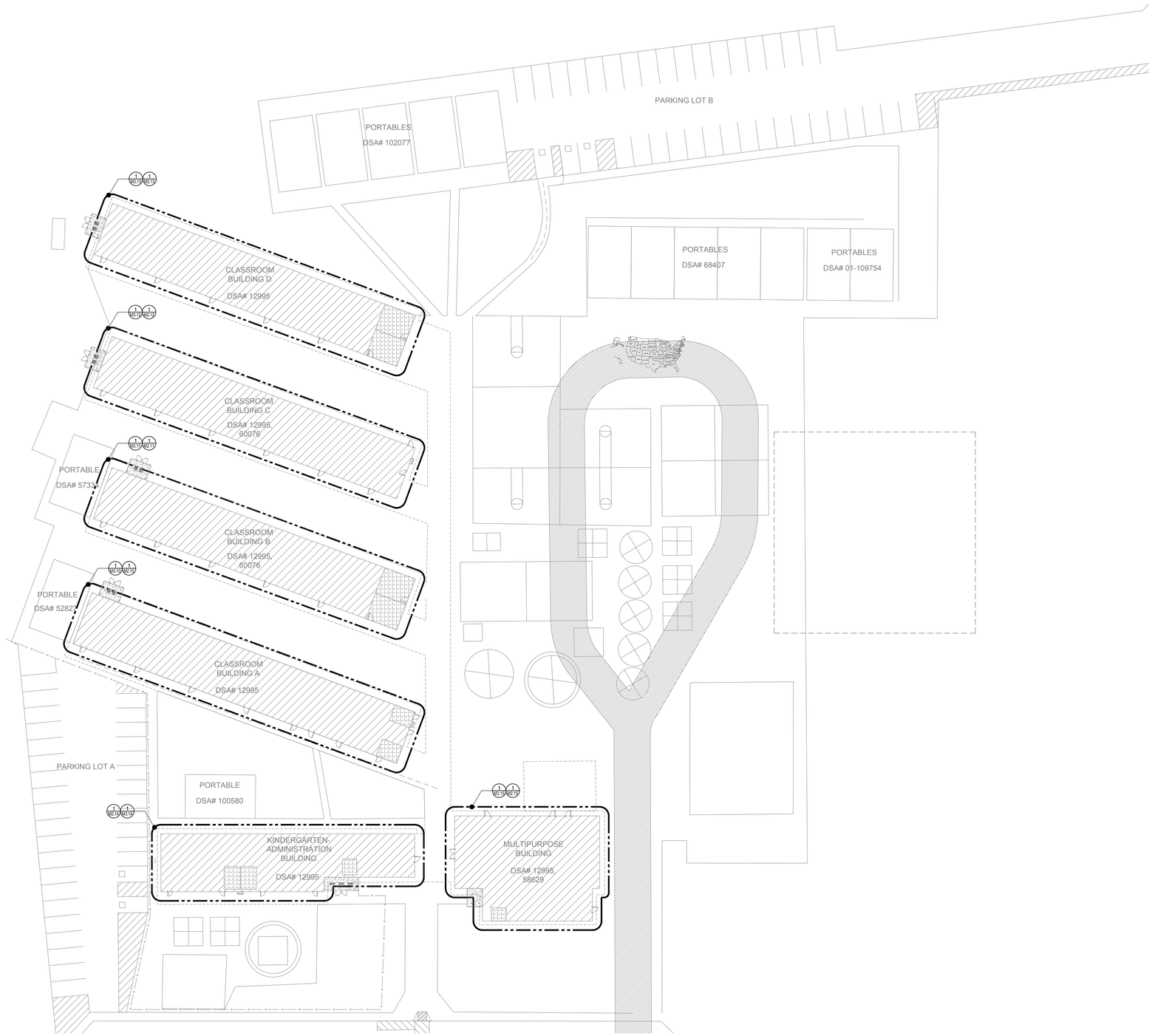
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CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
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MECHANICAL DETAILS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	M0.03
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MECHANICAL SITE PLAN 1 — 1" = 25'

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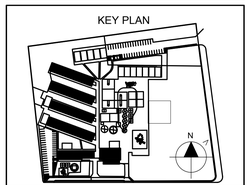
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
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KEY PLAN



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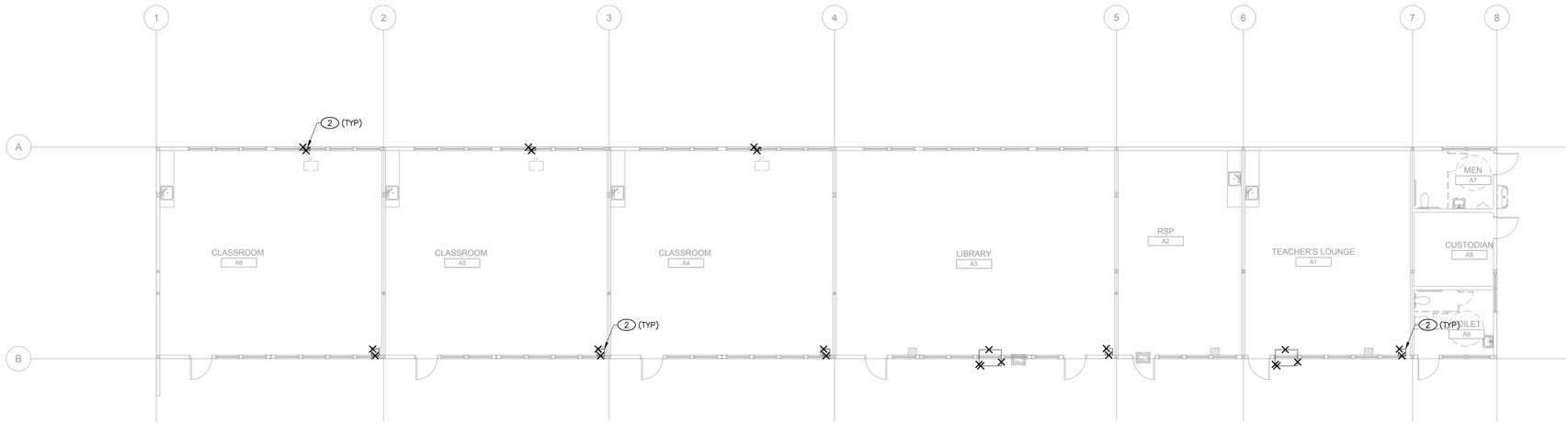
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MECHANICAL SITE PLAN

Date	Project Number
04/24/2023	22027
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01-120632	M1.00
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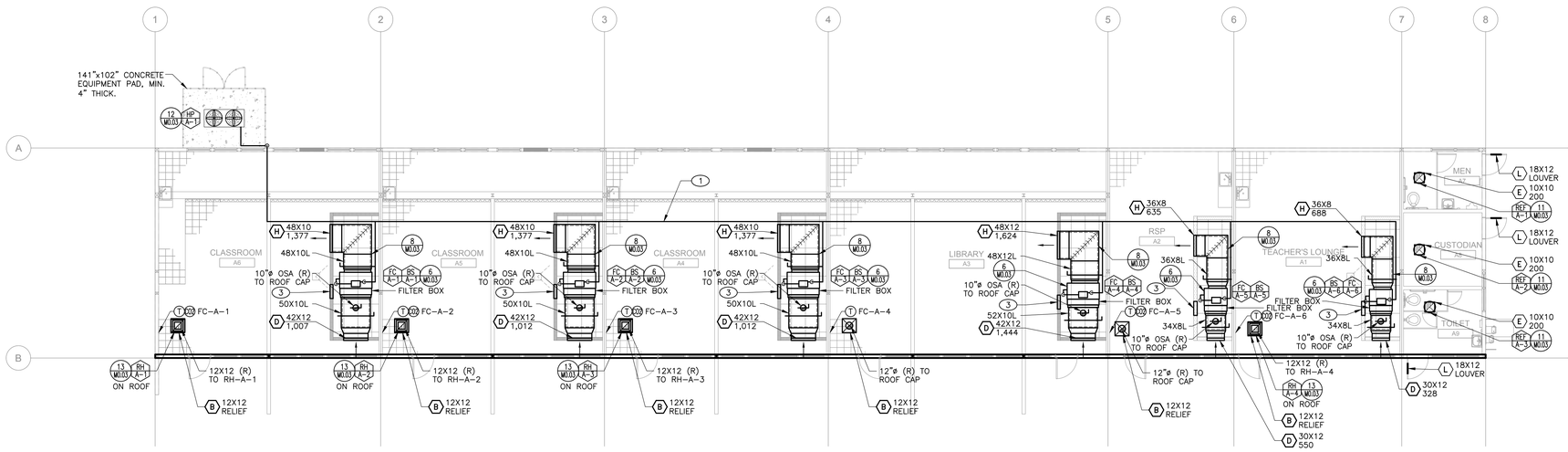
1. REFRIGERANT LINE SET ABOVE CEILING.
2. REMOVE EXISTING MECHANICAL EQUIPMENT SHOWN HATCHED AND RELATED DUCTWORK BACK TO POD.
3. 24X24 ACCESS DOOR ON SIDE OF SOFFIT



DEMO MECHANICAL FLOOR PLAN - BUILDING A | **1** 1/8" = 1'-0"

GENERAL NOTES

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MECHANICAL FLOOR PLAN - BUILDING A | **2** 1/8" = 1'-0"

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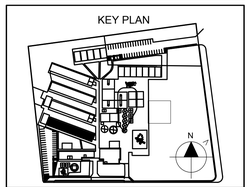
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NO.	REMARKS	DATE

DRAWING STATUS

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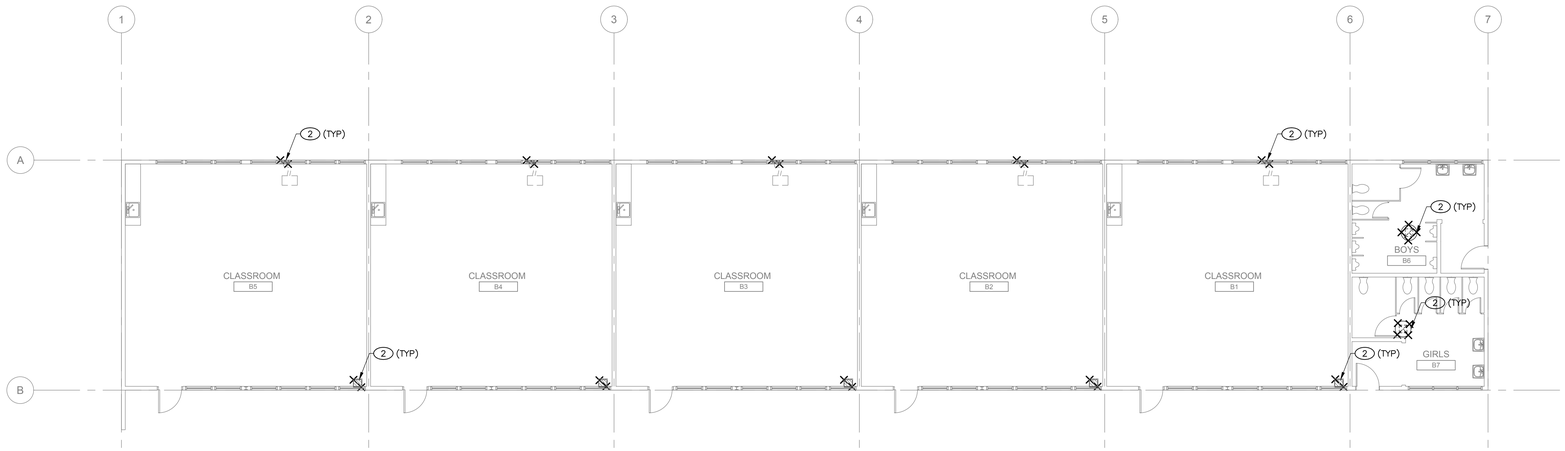
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MECHANICAL FLOOR PLAN BUILDING A

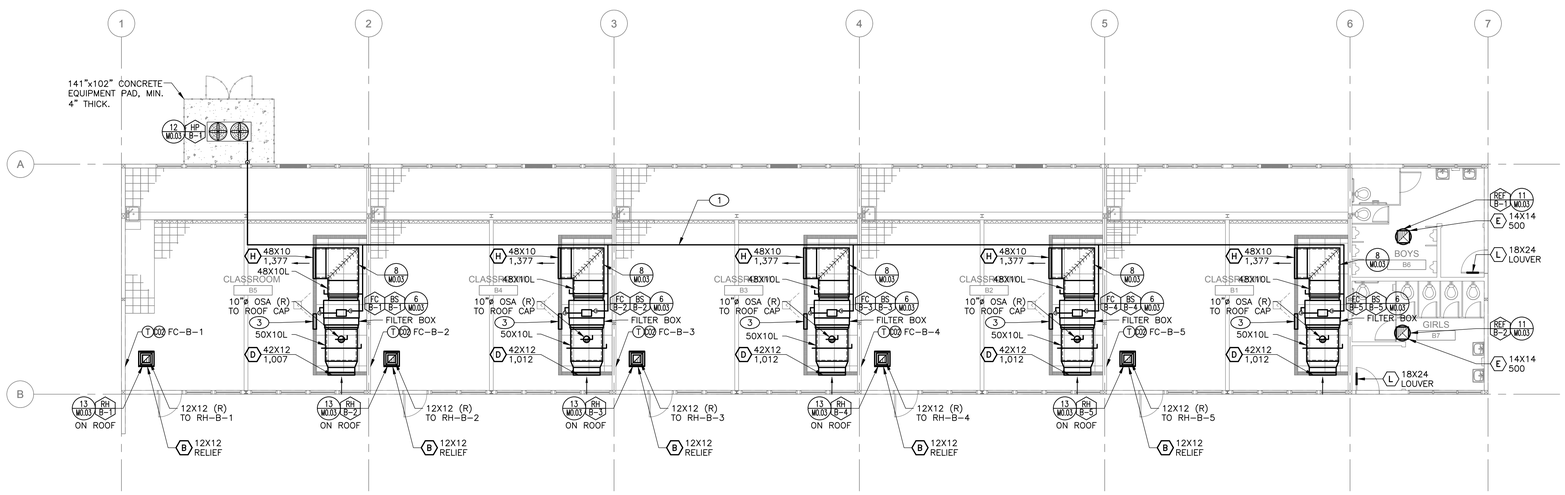
Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	M3.10
Drawn / Checked	
KT / CD	

KEY NOTES

1. REFRIGERANT LINE SET ABOVE CEILING.
2. REMOVE EXISTING MECHANICAL EQUIPMENT SHOWN HATCHED AND RELATED DUCTWORK BACK TO POD.
3. 24X24 ACCESS DOOR ON SIDE OF SOFFIT



DEMO MECHANICAL FLOOR PLAN - BUILDING B | **1** 1/8" = 1'-0"



MECHANICAL FLOOR PLAN - BUILDING B | **2** 1/8" = 1'-0"

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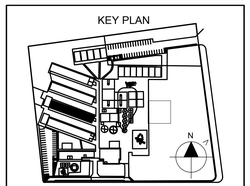
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NO.	REMARKS	DATE

DRAWING STATUS

	DATE
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● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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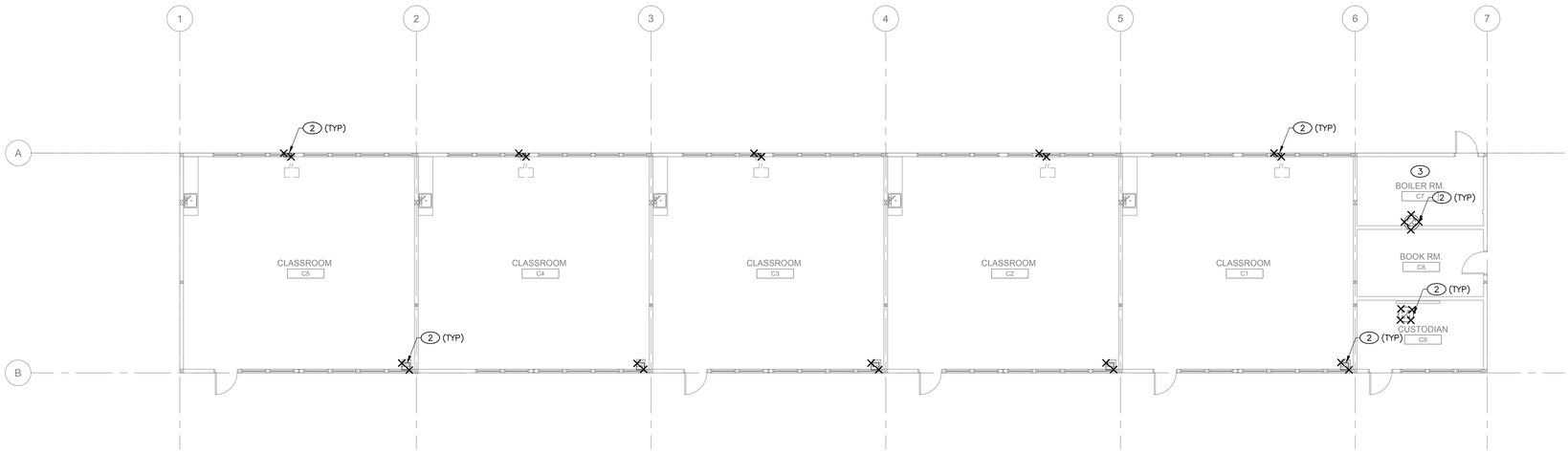
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MECHANICAL FLOOR PLAN BUILDING B

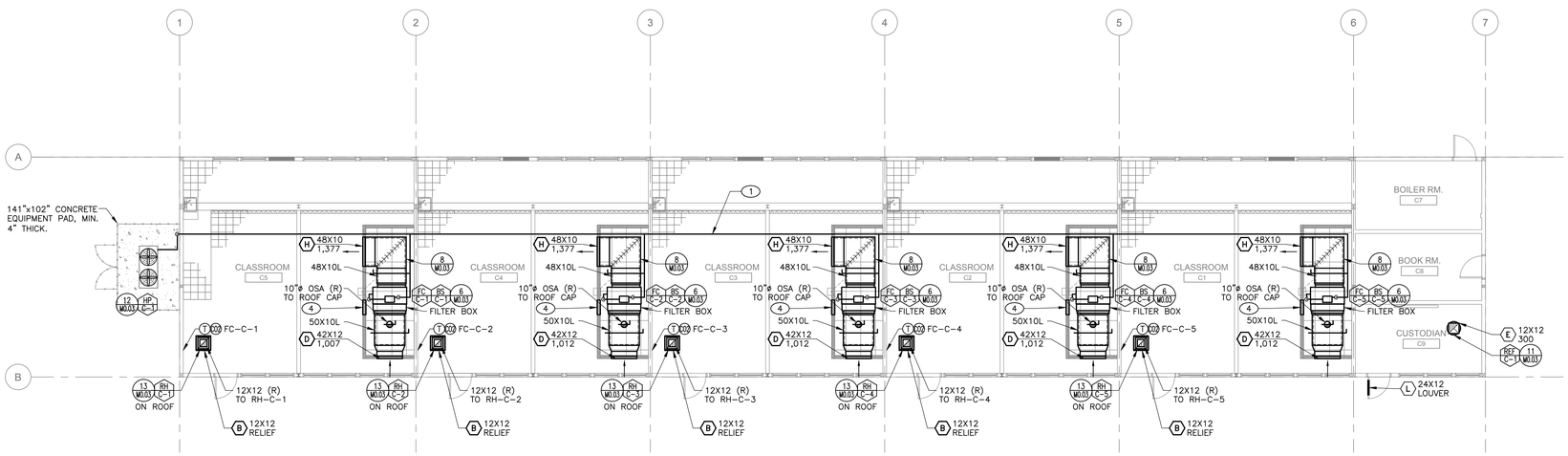
Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	M3.11
Drawn: KT	Checked: CD

KEY NOTES

1. REFRIGERANT LINE SET ABOVE CEILING.
2. REMOVE EXISTING MECHANICAL EQUIPMENT SHOWN HATCHED AND RELATED DUCTWORK BACK TO POD.
3. DEMO EXISTING BOILER AND ASSOCIATED PIPING. DEMO ALL HEATING HOT WATER PIPING AND GAS PIPING THAT ARE EASILY ACCESSIBLE IN THE SCHOOL. CONTRACTOR TO VERIFY THE LOCATION OF THESE EXISTING HEATING HOT WATER PIPES AND GAS PIPES BEFORE BIDDING.
4. 24X24 ACCESS DOOR ON SIDE OF SOFFIT



DEMO MECHANICAL FLOOR PLAN - BUILDING C | **1** 1/8" = 1'-0"



GENERAL NOTES

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2. CLEAN EXISTING DUCTWORK PER SPECIFICATION NUMBER 23-01-30.51.

MECHANICAL FLOOR PLAN - BUILDING C | **2** 1/8" = 1'-0"

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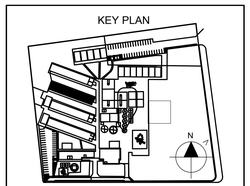
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KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

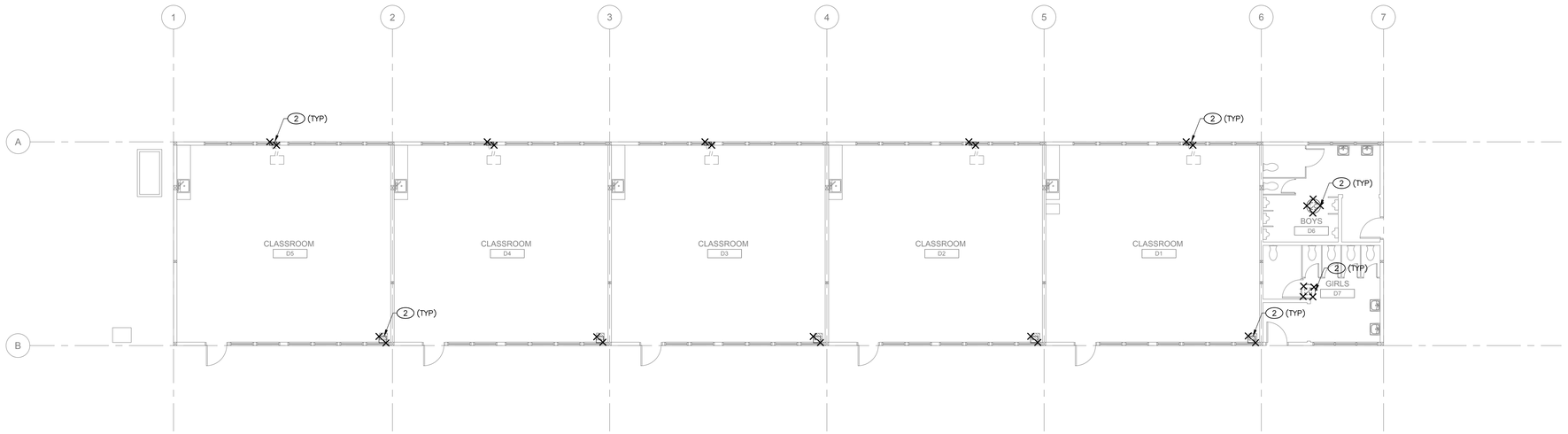
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MECHANICAL FLOOR PLAN BUILDING C

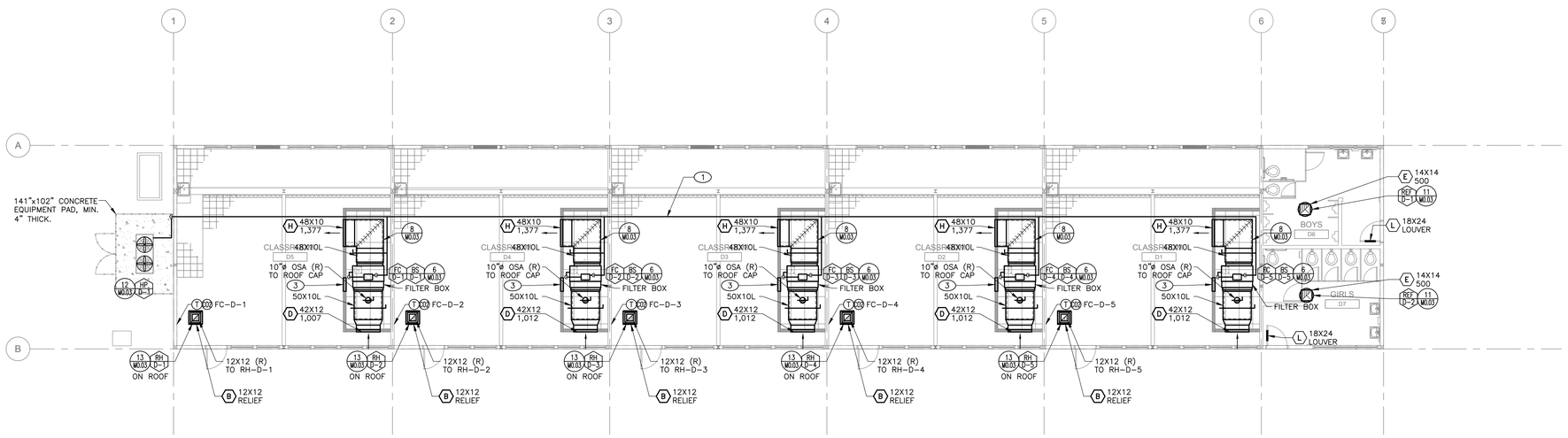
Date	Project Number
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Application Number	Drawing Number
01-120632	M3.12
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KEY NOTES

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2. REMOVE EXISTING MECHANICAL EQUIPMENT SHOWN HATCHED AND RELATED DUCTWORK BACK TO POD.
3. 24X24 ACCESS FOOR ON SIDE OF SOFFIT



DEMO MECHANICAL FLOOR PLAN - BUILDING D | **1** 1/8" = 1'-0"



MECHANICAL FLOOR PLAN - BUILDING D | **2** 1/8" = 1'-0"

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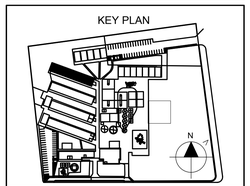
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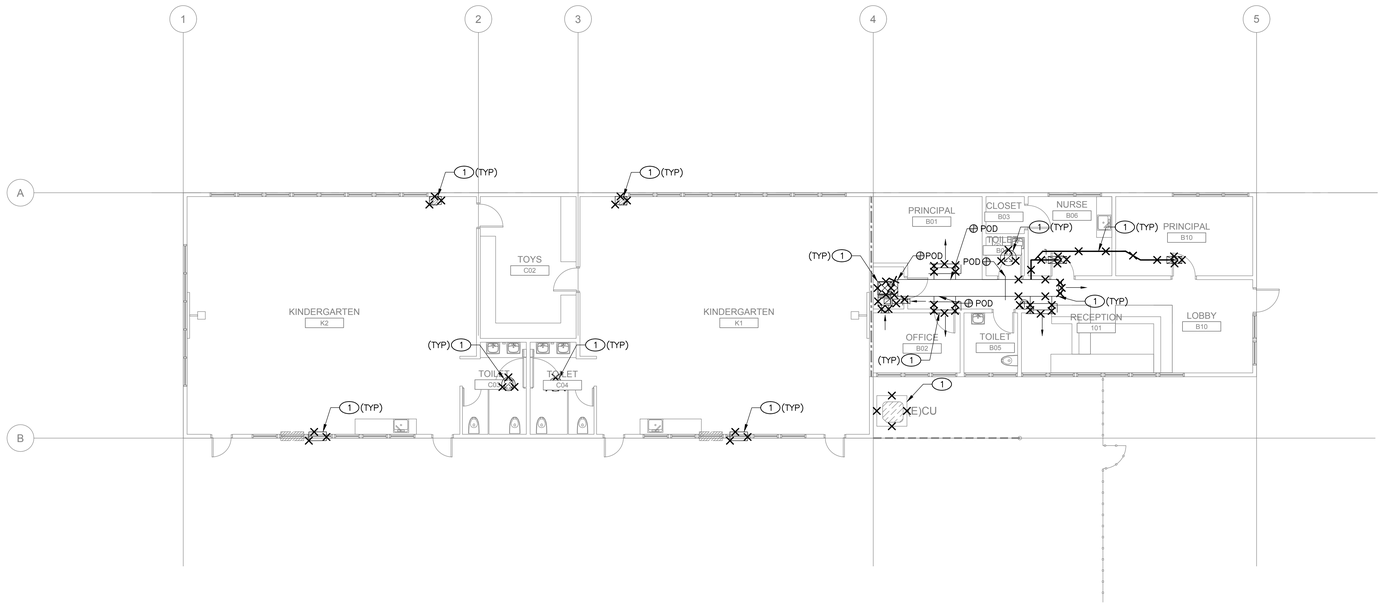
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MECHANICAL FLOOR PLAN BUILDING D

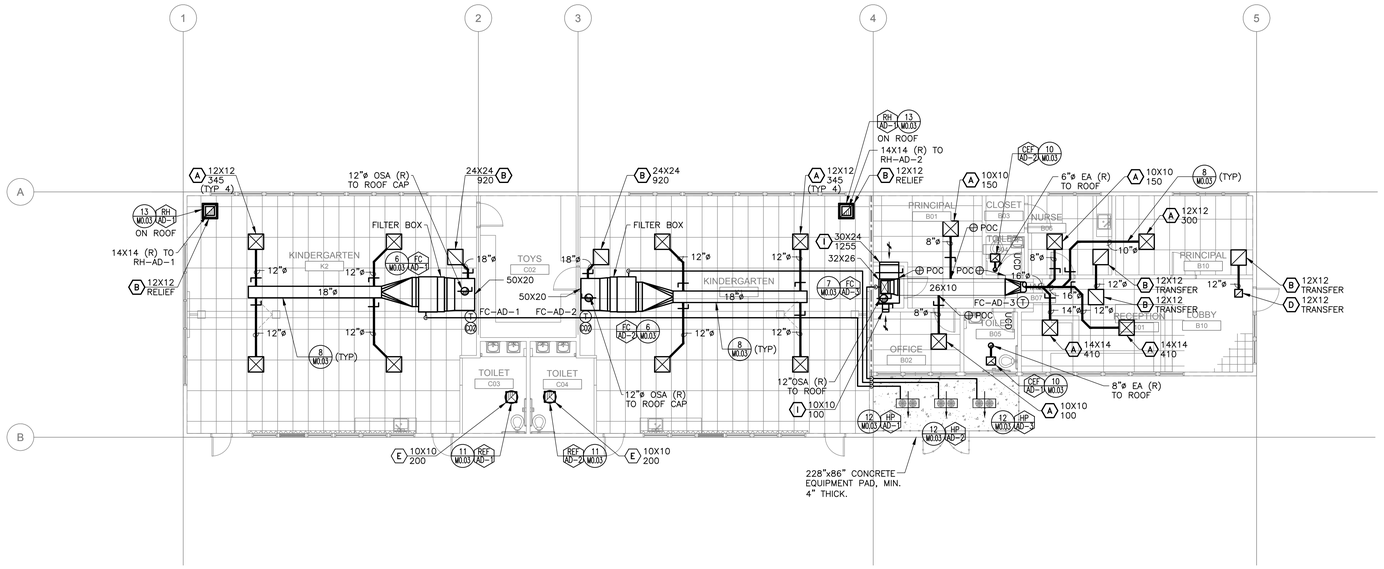
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04/24/2023	22027
Application Number	Drawing Number
01-120632	M3.13
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DEMO MECHANICAL FLOOR PLAN - ADMIN BUILDING

1

1/8" = 1'-0"



MECHANICAL FLOOR PLAN - ADMIN BUILDING

2

1/8" = 1'-0"

KEY NOTES

1. REMOVE EXISTING MECHANICAL EQUIPMENT SHOWN HATCHED AND RELATED DUCTWORK BACK TO POD.

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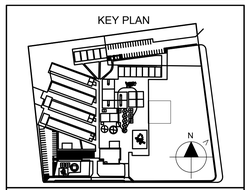
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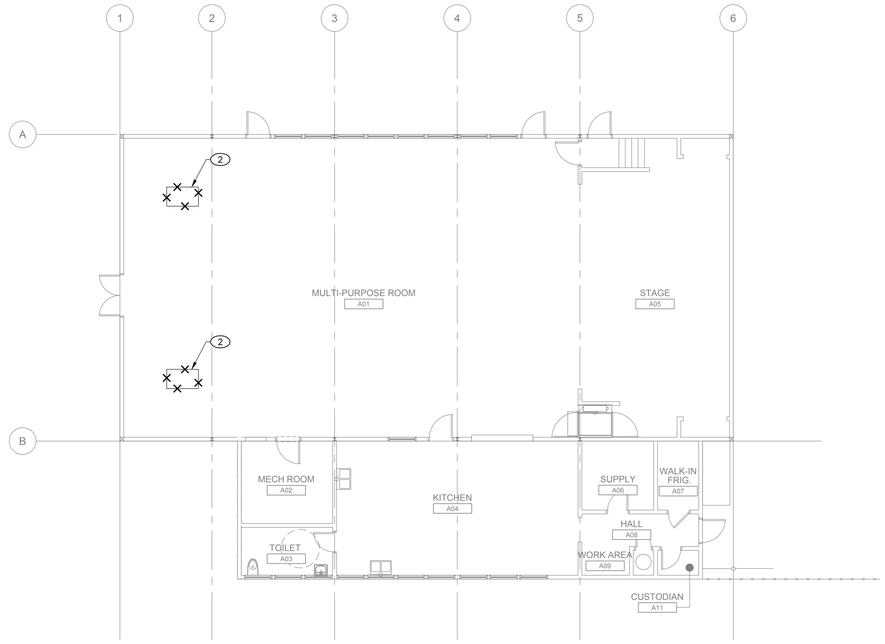
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MECHANICAL FLOOR PLAN ADMIN BUILDING

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Application Number	Drawing Number
01-120632	M3.14
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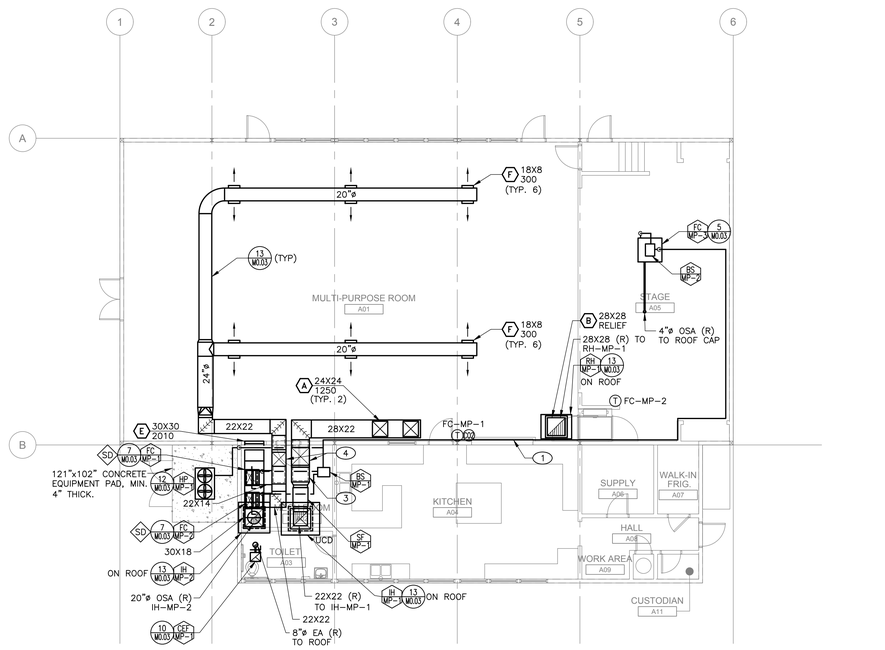


DEMO MECHANICAL FLOOR PLAN - MULTIPURPOSE BUILDING | 1

1/8" = 1'-0"

KEY NOTES

1. REFRIGERANT LINE SET.
2. REMOVE EXISTING MECHANICAL EQUIPMENT SHOWN HATCHED AND RELATED DUCTWORK.
3. PROVIDE INTERNAL DUCT INSULATION FOR EXPOSED DUCT
4. DUCTWORK (R) THROUGH ROOF AND PENETRATING EXTERIOR MULTIPURPOSE WALL.



MECHANICAL FLOOR PLAN - MULTIPURPOSE BUILDING | 2

1/8" = 1'-0"

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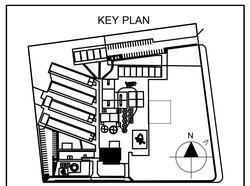
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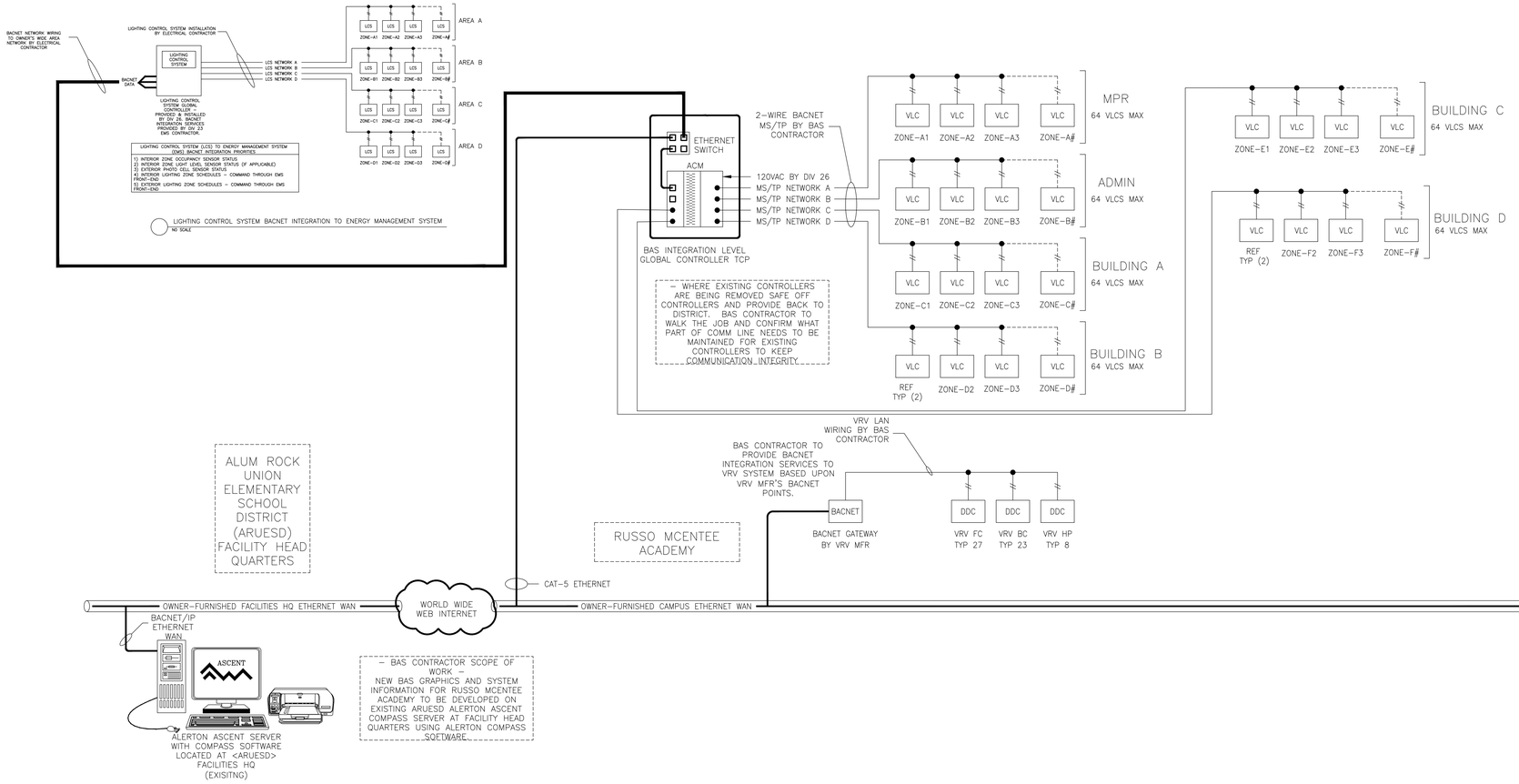
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MECHANICAL FLOOR PLAN MULTIPURPOSE BUILDING

Date	Project Number
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ALERTON BACNET BAS SYSTEM - NETWORK ARCHITECTURE | NTS | 1

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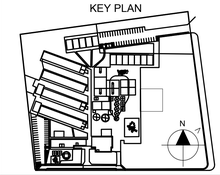
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MECHANICAL CONTROLS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	M5.10
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VRV System with Factory Controls

1. System Overview
   a. Each outdoor condensing unit, indoor fan coil unit, and refrigerant branch selector box will be directly controlled by the VRV factory-provided global controller.
   b. Each indoor fan coil unit will be connected (hard wired) to a VRV factory-provided dedicated wall mounted electronic zone temperature sensor.
   c. Electronic zone temperature sensors shall have a backlit LCD display and shall include: 1) physical push-buttons for warmer/cooler setpoint control; 2) physical push-button for indoor fan coil unit fan speed control; 3) visual display of room temperature, and current mode; and 4) physical push-button after-hours override control with user adjustable duration. The after-hours override duration shall have he ability to be limited from the controls front end user interface.
   d. The owner standard (Alerton) EMS System shall interface with the VRF system global controller via the factory BACnet interface/gateway control module (by VRF manufacturer), to allow the EMS System to monitor (read), or command (write), certain VRF system control points. See integration points list.

2. Scheduling
   a. Scheduled occupied and unoccupied hours shall be programmed thru the EMS Operator Workstation/Graphical User Interface according to EMS time schedule. Occupant manual override to provide "after-hours" system operation shall occur at the local zone temperature sensor. Duration of manual override shall be programmed thru the EMS Operator Workstation/Graphical User Interface (30 minutes min., 2 hours max).

3. Room Temperature Setpoints (adjustable)
   a. Room temperature setpoints for scheduled occupied and unoccupied hours shall be programmed thru the EMS Operator Workstation/Graphical User Interface. Occupant override of room temperature setpoint shall occur at the local zone temperature sensor and shall be limited to 2°F higher/lower than programmed setpoints. Room temperature setpoints are as follows:
      •Occupied room heating setpoint: 68°F
      •Unoccupied room heating setpoint: 58°F
      •Occupied room cooling setpoint: 75°F
      •Unoccupied room cooling setpoint: 85°F
   b. During periods of Vacancy, whereas a zone is empty for more than 15 minutes during scheduled occupied hours (as seen by EMS via BACnet integration with lighting control system occupancy sensors), the EMS system shall setup/setback the room temperature setpoints by 2°F (adjustable). When room occupancy returns, EMS shall revert back to occupied room temperature setpoint.

4. Unit Fan Operation
   a. When the zone is in Occupied Mode or in Afterhours Mode, the fan shall run continuously.
   b. During the Unoccupied Mode as determined by EMS time schedule, the unit fan cycles with demand as needed to maintain the unoccupied room heating and cooling temperature setpoints.

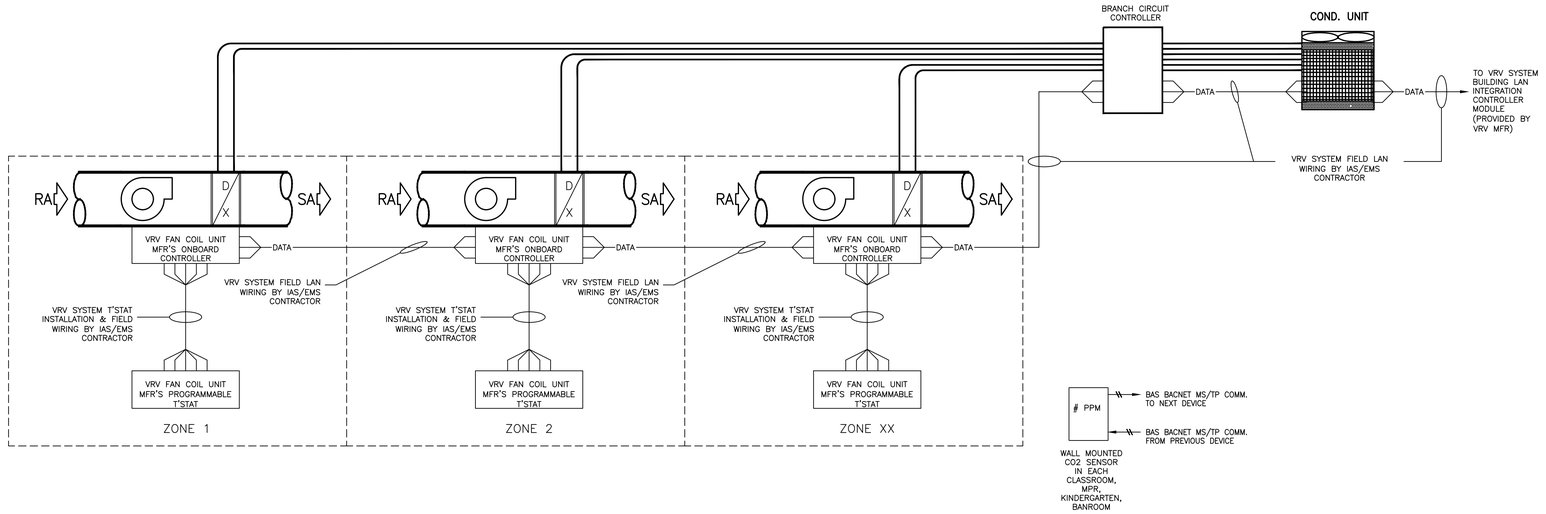
5. Automatic Demand Reduction Controls
   a. EMS shall be programmed with capability to implement centralized demand shed for all non-critical zones upon call for Automatic Demand Reduction. Critical zones shall not be impacted by demand shed conservation measures.

6. Zone Pre-Occupancy Purge
   a. The EMS shall schedule the zone to be in Occupied Mode one hour prior to the actual time of anticipated occupancy.

7. Heating operation
   a. The VRF system global controller compares the zone heating setpoint with the space temperature and determines a need-heating control signal to provide mechanical heating.

8. Cooling operation
   a. The VRF system global controller compares the zone cooling setpoint with the space temperature and determines a need-cooling control signal to provide mechanical cooling.

9. Integration Points List – The following VRF system control points shall be displayed on the EMS Operator Workstation/Graphical User Interface via the VRF system factory BACnet interface/gateway control module:
   a. Fan coil unit tag identification number.
   b. Unit occupancy command.
   c. Unit status.
   d. Fan status.
   e. Zone temperature.
   f. Zone occupied cooling setpoint.
   g. Zone occupied heating setpoint.
   h. Zone unoccupied cooling setpoint.
   i. Zone unoccupied heating setpoint.
   j. Fan coil unit discharge air temperature.
   k. Fan coil unit operation mode.
   l. Room occupancy mode (via BACnet integration to lighting control system occupancy sensor).
   m. Fan coil unit alarm status.
   n. Compressor status.
   o. Fan coil unit thermal conditioning status.
   p. Fan coil unit thermal conditioning lockout status.
   q. CO2 sensor.



VRV FAN COIL SYSTEM – IAS/EMS FIELD WIRING DIAGRAM

VRV FAN COIL SYSTEM - IAS/EMS FIELD WIRING DIAGRAM | NTS | 1

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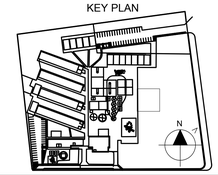
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
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○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



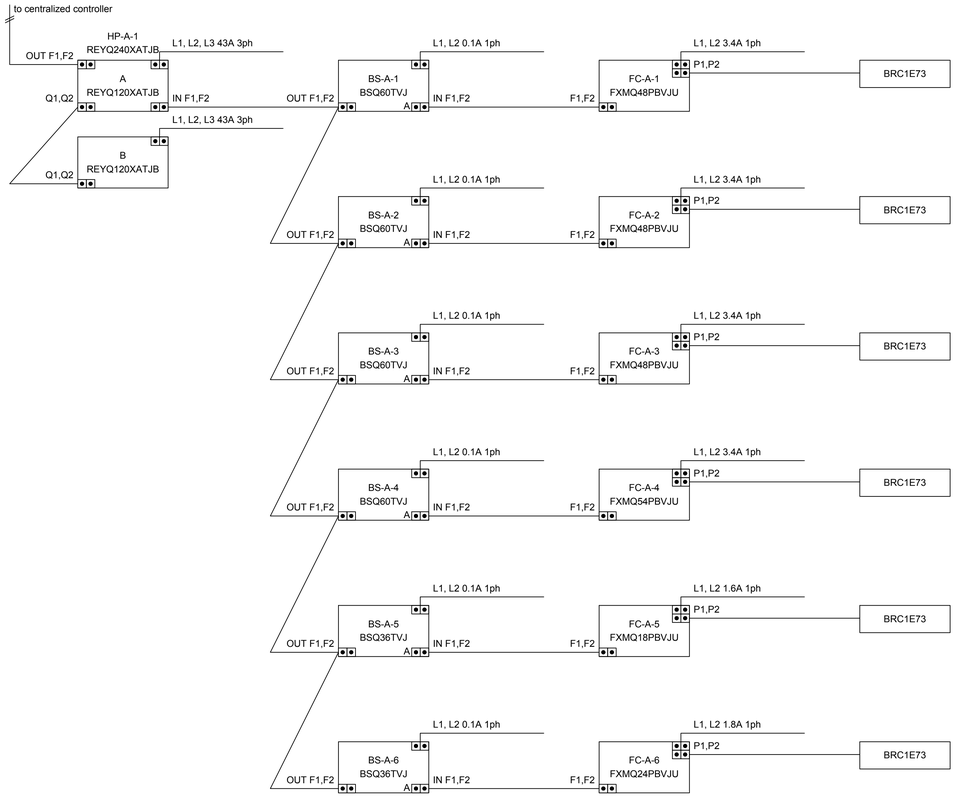
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

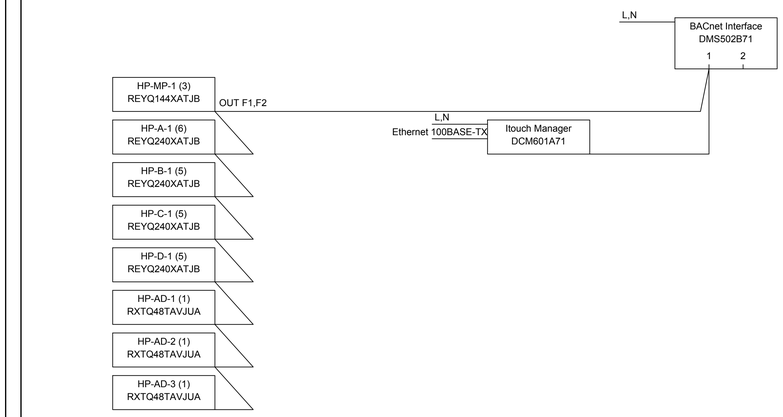
RUSSO-MCENTEE ACADEMY
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SAN JOSE, CA 95127

MECHANICAL CONTROLS

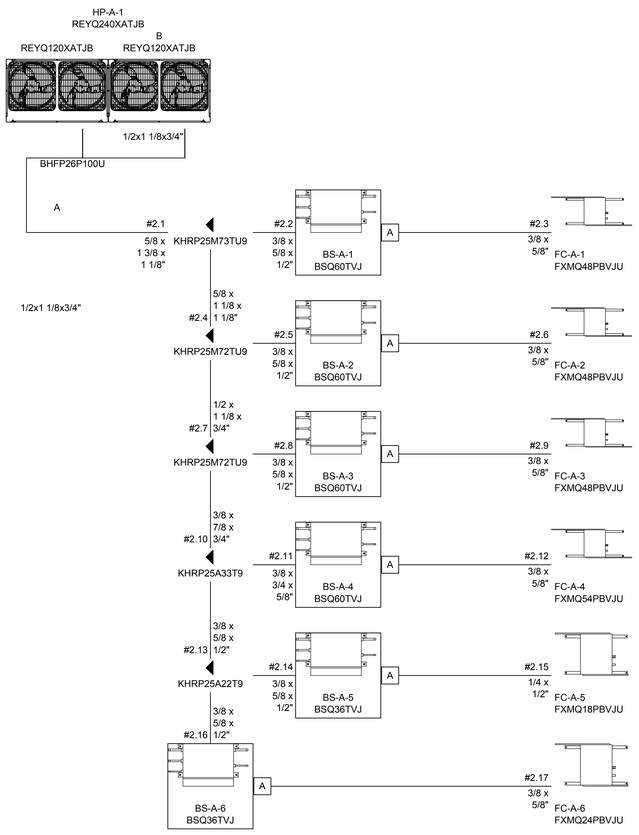
Date	Project Number
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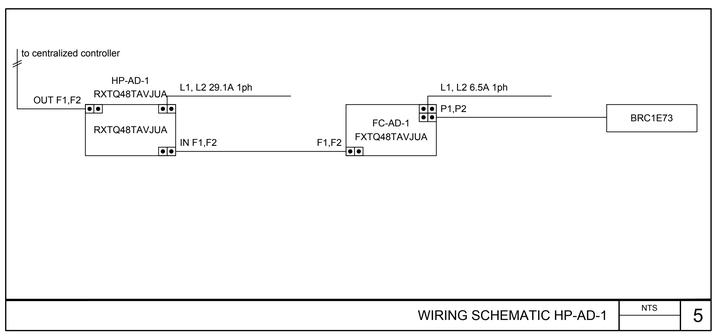
WIRING SCHEMATIC HP-A-1 | NTS | 3



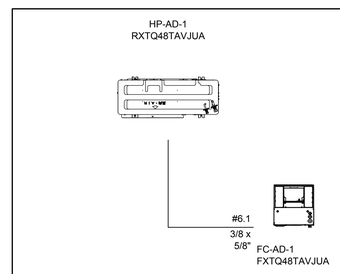
CONTROLLER WIRING SCHEMATICS | NTS | 1



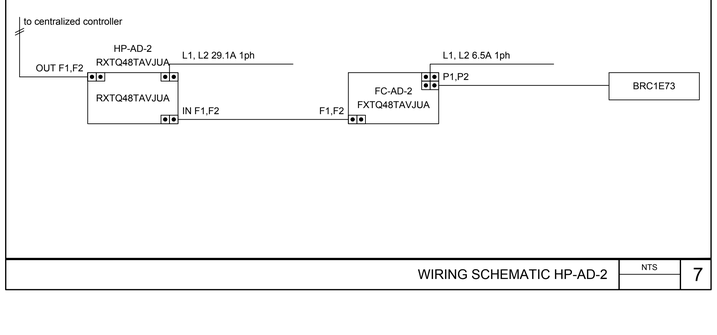
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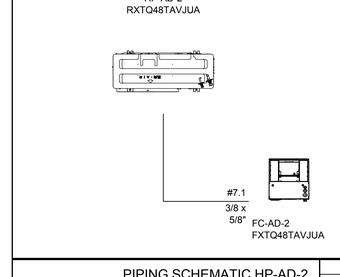
WIRING SCHEMATIC HP-AD-1 | NTS | 5



PIPING SCHEMATIC HP-AD-1 | NTS | 4



WIRING SCHEMATIC HP-AD-2 | NTS | 7



PIPING SCHEMATIC HP-AD-2 | NTS | 6

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1930 H St.
Sacramento, California 95811
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MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

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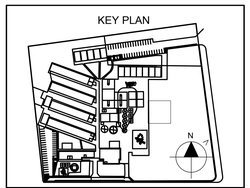
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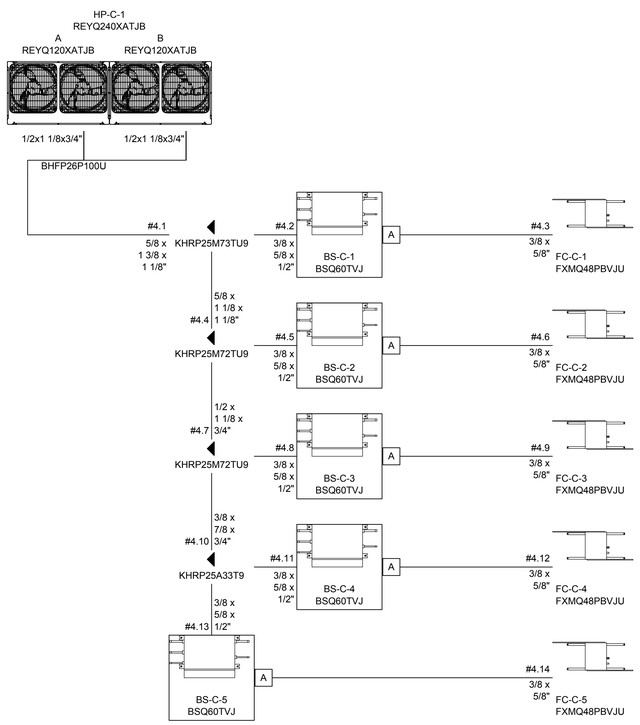
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CONSTRUCTION DOCUMENTS

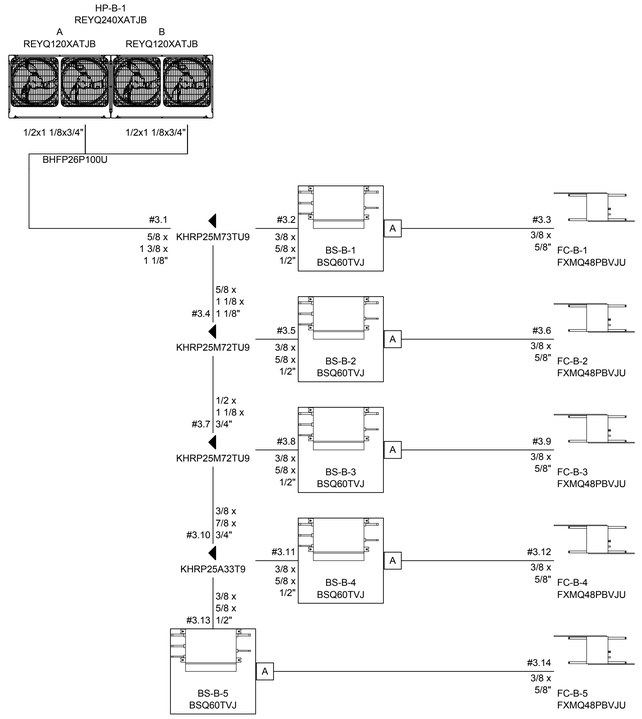
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MECHANICAL PIPING AND WIRING DIAGRAMS

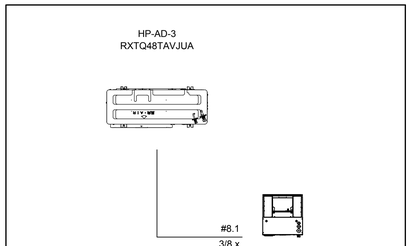
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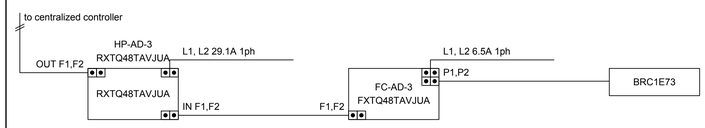
PIPING SCHEMATIC HP-C-1 | NTS | 5



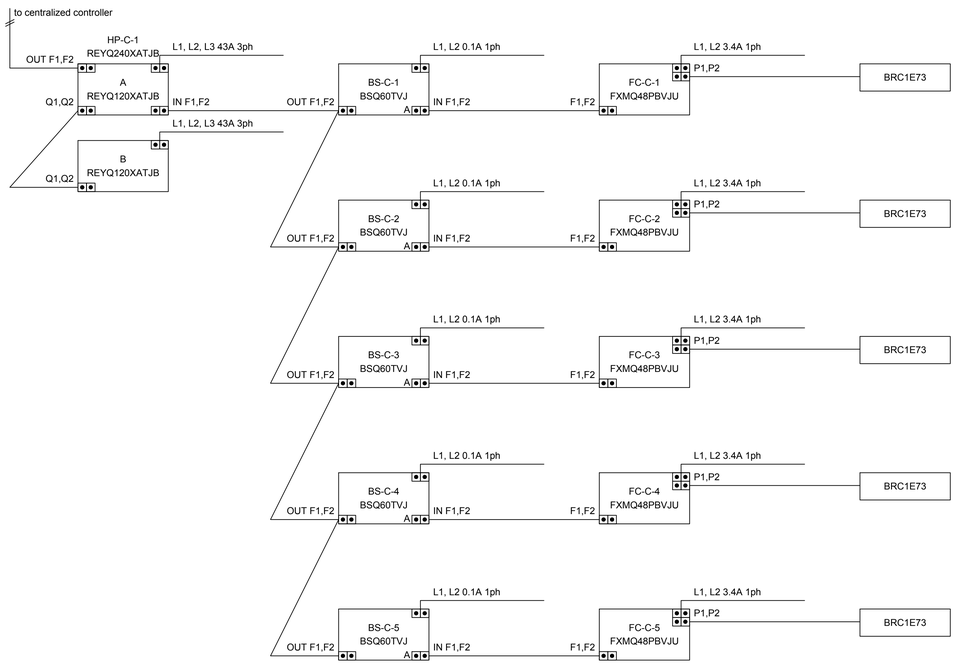
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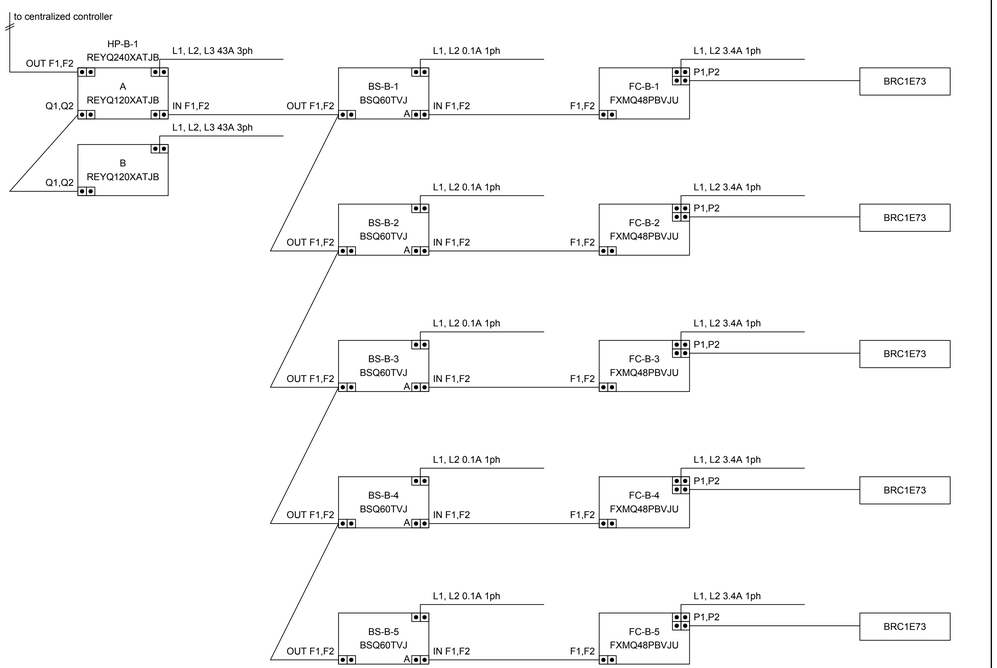
PIPING SCHEMATIC HP-AD-3 | NTS | 1



WIRING SCHEMATIC HP-AD-3 | NTS | 2



WIRING SCHEMATIC HP-C-1 | NTS | 6



WIRING SCHEMATIC HP-B-1 | NTS | 4

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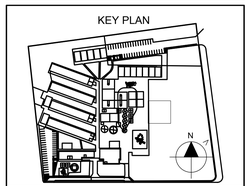
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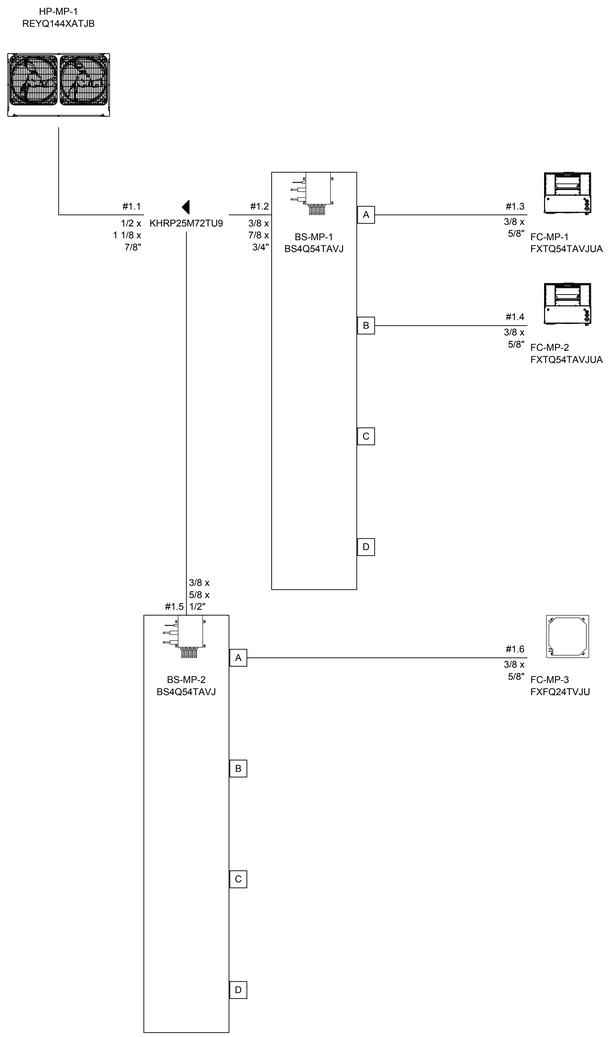
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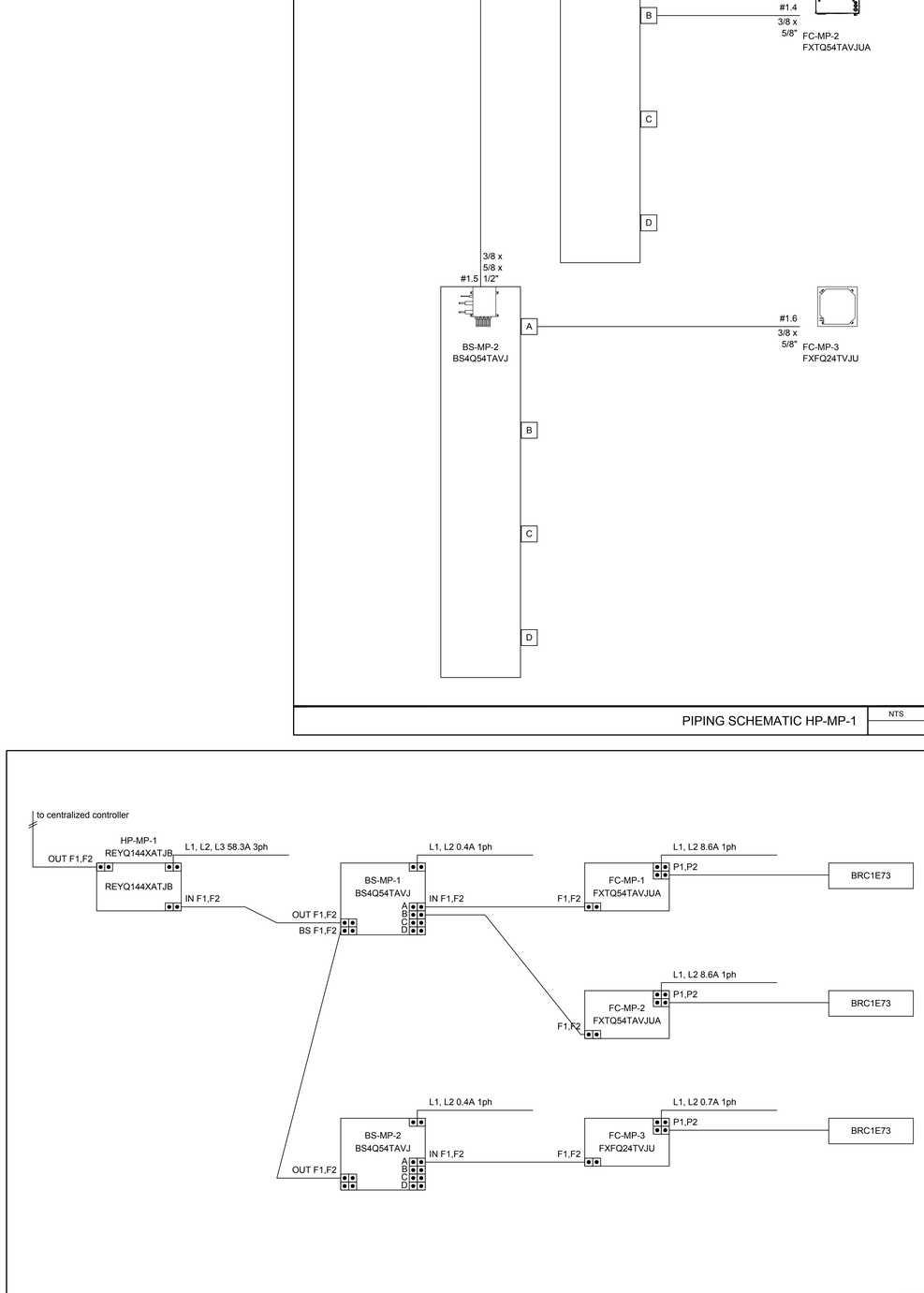
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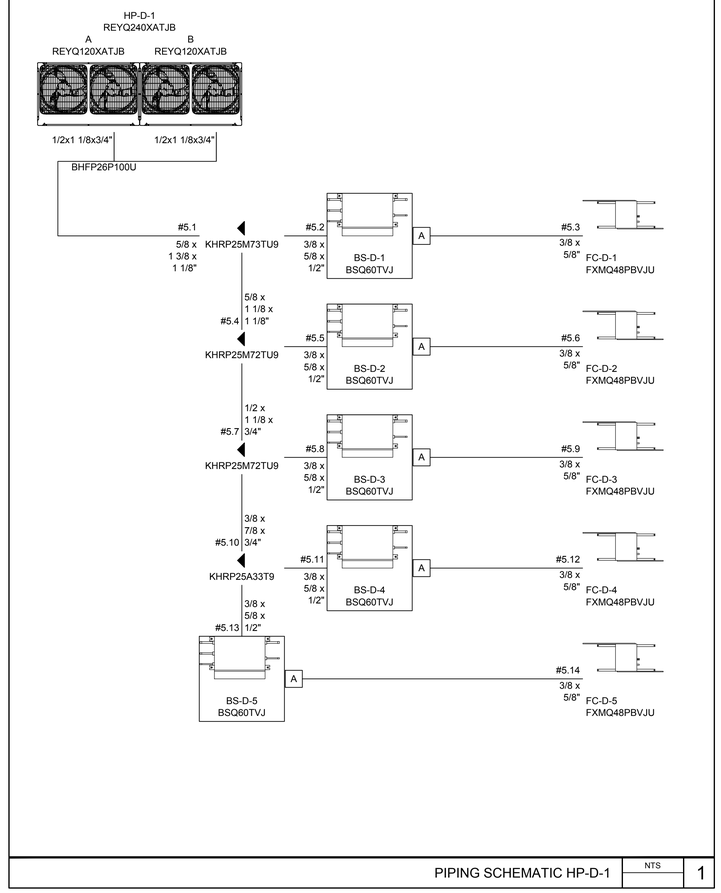
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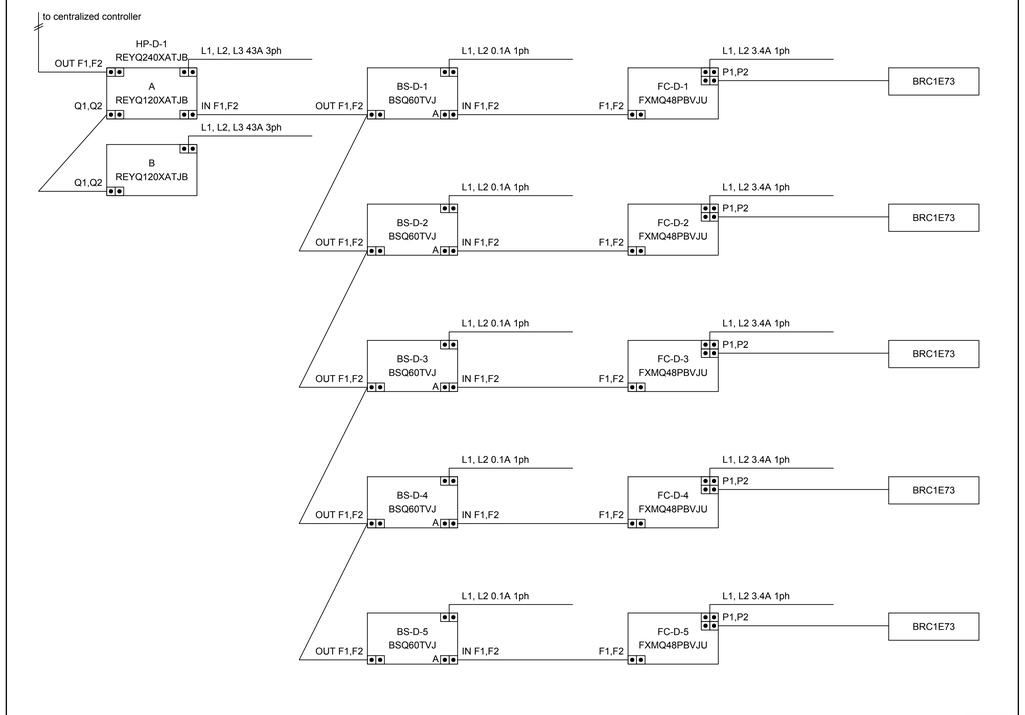
PIPING SCHEMATIC HP-MP-1 | NTS | 3



WIRING SCHEMATIC HP-MP-1 | NTS | 4



PIPING SCHEMATIC HP-D-1 | NTS | 1



WIRING SCHEMATIC HP-D-1 | NTS | 2

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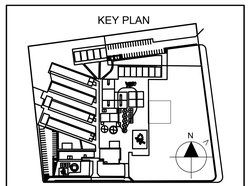
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KEY PLAN



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01-120632	M5.14
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PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
DF 1	DRINKING FOUNTAIN CBC ACCESS	2"	1-1/2"	1/2"	---	HAWS MODEL 1117L, WALL MOUNT HI-LO, BARRIER FREE, FREEZE RESISTANT, 14 GAUGE, TYPE 304, NO. 4 SATIN FINISH STAINLESS STEEL DRINKING FOUNTAIN, WALL MOUNT. PUSH BUTTON VALVES. PROVIDE WITH SUPPORT CARRIER MODEL 6700.4. PROVIDE P-TRAP AND STOP. INSTALL PER CBC ACCESS REQUIREMENTS. LOCATION SHOWN ON PLUMBING SITE PLAN, P1.00.

EQUIPMENT ANCHORAGE NOTES

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 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE 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 APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. 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 WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE 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 AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

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 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT
☐ ☐ ☒ ☐ SPECIFIC NOTES AND DETAILS.

MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL
☐ ☐ ☐ ☐ (OPM#) #0043-13.

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
S-1	FIXTURE DESIGNATION UNIT ABBREVIATION NUMBER	
1 P-1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
CW	DOMESTIC COLD WATER	CW
HW	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER SUPPLY	HWS
	DOMESTIC HOT WATER RETURN	HWR
V	VENT	V
G	GAS	G
MG	MEDIUM PRESSURE GAS	MG
LPG	LIQUID PROPANE GAS	LPG
S	SEWER	S
GW	GREASE WASTE	GW
OS	OIL/SAND WASTE	OS
AW	ACID WASTE	AW
SD	STORM DRAIN	SD
RD	ROOF DRAIN	RD
OD	OVERFLOW DRAIN	OD
C	CONDENSATE DRAIN	C
SCD	SECONDARY DRAIN	SCD
D	DRAIN	D
T&P	TEMPERATURE & PRESSURE RELIEF	T&P
FS	FIRE SPRINKLER	FS
	PIPE CAP	
	PIPE RISER/DROP	(R)/(D)
	SHUT-OFF VALVE IN BOX	SOV
FCO	FLOOR CLEANOUT	FCO
COTG	CLEANOUT TO GRADE	COTG
	WALL CLEANOUT	WCO
	CLEANOUT	CO
	HOSE BIBB	HB
	OVERFLOW DRAIN OUTLET	
	BALL VALVE	BV
	GATE VALVE	GV
	CHECK VALVE	CHK.V
	MIXING VALVE	TMV
	SHUT-OFF COCK	SOC
	CIRCULATION PUMP	CP
	BALANCING VALVE	BLV
TP	TRAP PRIMER	TP
	TYPICAL	(TYP)
	VENT THRU ROOF	VTR
	UNDERGROUND	UG
	UNDER FLOOR	UF
	ABOVE CEILING	AB.C.
	TO ABOVE/BELOW	TA/TB
	FROM ABOVE/BELOW	FA/FB
	CONTINUATION	CONT.
	NEW	(N)
	EXISTING	(E)
	POINT OF DIS/CONNECTION	POD/POC

PLUMBING SPECIFICATIONS

A. THIS CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE, INCLUDING, BUT NOT LIMITED TO:
   A.1. 2019 CALIFORNIA BUILDING CODE
   A.2. 2019 CALIFORNIA MECHANICAL CODE
   A.3. 2019 CALIFORNIA PLUMBING CODE
   A.4. 2019 CALIFORNIA ELECTRICAL CODE
   A.5. 2019 CALIFORNIA GREEN BUILDING STANDARDS
   A.6. 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS – TITLE 24
   A.7. NATIONAL FIRE PROTECTION ASSOCIATION
   A.8. CALIFORNIA STATE FIRE MARSHAL
B. ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED ITEMS INSTALLED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER.
C. THE PLUMBING CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF PLUMBING EQUIPMENT.
D. CHECK AND VERIFY EXISTING CONDITIONS AT THE JOB SITE BEFORE BEGINNING WORK. ADJUST THE LOCATION AND CONFIGURATION OF THE WORK NECESSARY TO SUIT ACTUAL CONDITIONS AND OTHER TRADES. ANY CHANGES REQUIRED MUST FIRST BE APPROVED BY THE ARCHITECT OR ENGINEER.
E. THE LOCATIONS OF EQUIPMENT, PIPING, AND SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. CHANGES REQUIRED TO SUIT EXISTING CONDITIONS AND DUE TO COORDINATION WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST TO THE OWNER.
F. SUBMIT MANUFACTURER'S PRODUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL, CAPACITY, OPTIONS, DIMENSIONS, WEIGHTS, INSTALLATION AND STARTUP DATA. EQUIPMENT PERFORMANCES SCHEDULED ARE MINIMUM CAPACITY, FLOW, EFFICIENCY, ETC. REQUIRED. WEIGHTS AND ELECTRICAL DATA SCHEDULED IS MAXIMUM AVAILABLE OR ALLOWABLE.
G. ALL EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. USING ALL ACCESSORY EQUIPMENT AVAILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE SYSTEM. ALL EQUIPMENT OR ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION, CHECK ALL CONTROLS AND VERIFY THAT ALL SAFETY DEVICES ARE FUNCTIONING PROPERLY.
H. PROVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS PLUMBING COMPONENTS OR OTHER SYSTEMS REQUIRING ACCESS FOR MAINTENANCE, TESTING OR OBSERVATION. COORDINATE THE EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCEALED.
I. CHECK ALL SYSTEMS FOR LEAKS. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER AND ARCHITECT OR ENGINEER THAT THE SYSTEM IS FUNCTIONING PROPERLY.
J. BEFORE COMMENCING WORK CHECK INVERT ELEVATIONS REQUIRED FOR SEWER CONNECTIONS, CONFIRM INVERTS AND ENSURE THAT THESE CAN BE PROPERLY CONNECTED WITH SLOPE FOR DRAINAGE AND COVER TO AVOID FREEZING. VERIFY THE LOCATION OF ALL SERVICES. NO EXTRA COSTS SHALL BE ALLOWED IF SERVICES ARE NOT AS SHOWN.
K. COORDINATE ALL NEW OR CHANGING UTILITY SERVICES WITH UTILITY PROVIDER AS SOON AS POSSIBLE. ALL WORK PERFORMED NOT IN ACCORDANCE WITH THE UTILITY COMPANIES REQUIREMENTS PRIOR TO COORDINATING WITH THE UTILITY COMPANY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
L. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
M. MAKE ALL CONNECTIONS TO EQUIPMENT AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER AS FAR AS TRAPS, DRAINS, FLEXIBLE CONNECTIONS, ETC. AND AS REQUIRED BY THE EQUIPMENT AND LOCATION.
N. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, FIXTURE MOUNTING HEIGHTS AND ADA ACCESSIBILITY REQUIREMENTS.

PLUMBING SHEET INDEX

SHEET NUMBER	SHEET NAME
P0.01	PLUMBING SPECIFICATIONS, LEGEND & NOTES
P0.02	PLUMBING DETAILS
P1.00	PLUMBING SITE PLAN
P3.10	PLUMBING FLOOR PLAN BUILDING A
P3.11	PLUMBING FLOOR PLAN BUILDING B
P3.12	PLUMBING ROOF PLAN BUILDING C
P3.13	PLUMBING FLOOR PLAN BUILDING D
P3.14	PLUMBING ROOF PLAN ADMIN BUILDING
P3.15	PLUMBING ROOF PLAN MULTIPURPOSE BUILDING

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1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
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Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITTHORN No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER JORDAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

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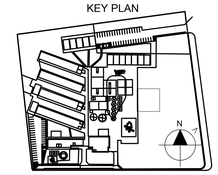
REVISION HISTORY

NO.	REMARKS	DATE

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KEY PLAN



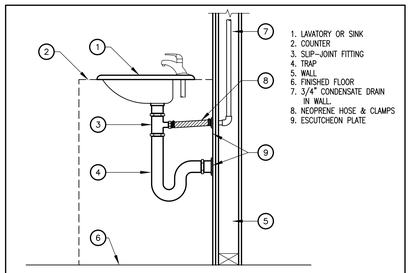
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
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PLUMBING SPECIFICATIONS, LEGEND, AND NOTES

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	P0.01
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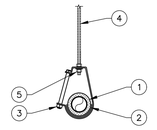


1. LAVATORY OR SINK
2. COUNTER
3. SLIP-JOINT FITTING
4. TRAP
5. WALL
6. FINISHED FLOOR
7. 3/4" CONDENSATE DRAIN IN WALL.
8. NEOPRENE HOSE & CLAMPS
9. ESCUTCHEON PLATE

P*PCD02A

CONDENSATE TO TAILPIECE DETAIL | NTS | 5

1. PIPE, SEE PLAN FOR SIZE AND ROUTING
2. PIPE INSULATION WHERE APPLICABLE, SEE SPECIFICATIONS. PROVIDE INSULATION PROTECTION SADDLE, MIN. 12" LONG, B-LINE B3151 OR EQUAL. MAY BE SUBSTITUTED FOR PRE-INSULATED CALCIUM SILICATE SHIELD SUPPORT, B-LINE B338 OR EQUAL
3. ADJUSTABLE 'J' PIPE HANGER, COATED OR PLATED TO ISOLATE HANGER FROM DISSIMILAR METAL PIPING, B-LINE B3690 OR EQUAL
4. 3/8"ø THREADED ROD, B-LINE ATR OR EQUAL
5. NUT AND WASHER, TOP AND BOTTOM.

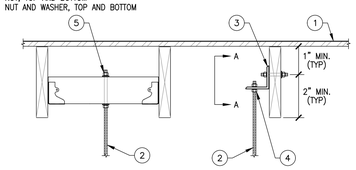


NON-SEISMIC SUPPORT

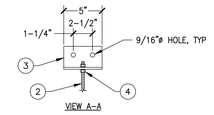
NOTES:
A. HANGER SPACING TO BE PER SPECIFICATIONS. MAXIMUM SPACING MAY NOT EXCEED 2019 CPC TABLE 313.3.
B. SEISMIC RESTRAINTS ARE NOT REQUIRED FOR 3/4" AND SMALLER GAS PIPING, AND FOR ALL OTHER PIPING 2" AND SMALLER.
C. SEISMIC RESTRAINTS ARE NOT REQUIRED FOR ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE, REF CBC 1617A.1.26 ITEM A1.
D. SEE DETAIL 2/P0.02 FOR HANGER UPPER ATTACHMENTS

PIPE HANGER DETAIL | NTS | 1

1. FLOOR/ROOF, SEE STRUCTURAL DRAWINGS
2. 3/8"ø THREADED ROD, B-LINE ATR OR EQUAL
3. 3"x3"x1/4" x 5" LONG GALVANIZED STEEL ANGLE, ATTACH TO FRAMING WITH (2) 1/2"ø BOLTS OR THREADED ROD WITH NUTS AND WASHER
4. NUT, TOP AND BOTTOM
5. NUT AND WASHER, TOP AND BOTTOM

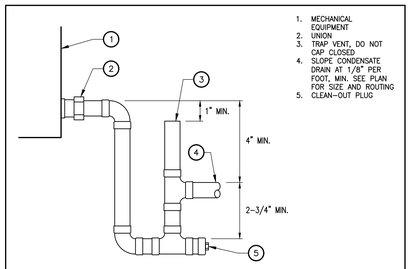


BETWEEN FRAMING MEMBERS | AT FRAMING MEMBERS



VIEW A-A

PIPE HANGER DETAIL | NTS | 2



1. MECHANICAL EQUIPMENT
2. UNION
3. TRAP VENT, DO NOT CAP CLOSED
4. SLOPE CONDENSATE DRAIN AT 1/8" PER FOOT, MIN. SEE PLAN FOR SIZE AND ROUTING
5. CLEAN-OUT PLUG

CONDENSATE CONNECTION DETAIL | NTS | 3

P*PSADTA

NOT IN USED | NTS | 4

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1209 Pleasant Grove Blvd.
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p 916-771-0778

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA (with limited signature)	REGISTERED PROFESSIONAL ENGINEER JORDAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

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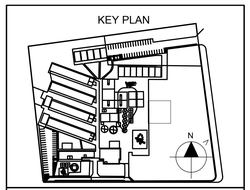
REVISION HISTORY

NO.	REMARKS	DATE

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	DATE
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○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



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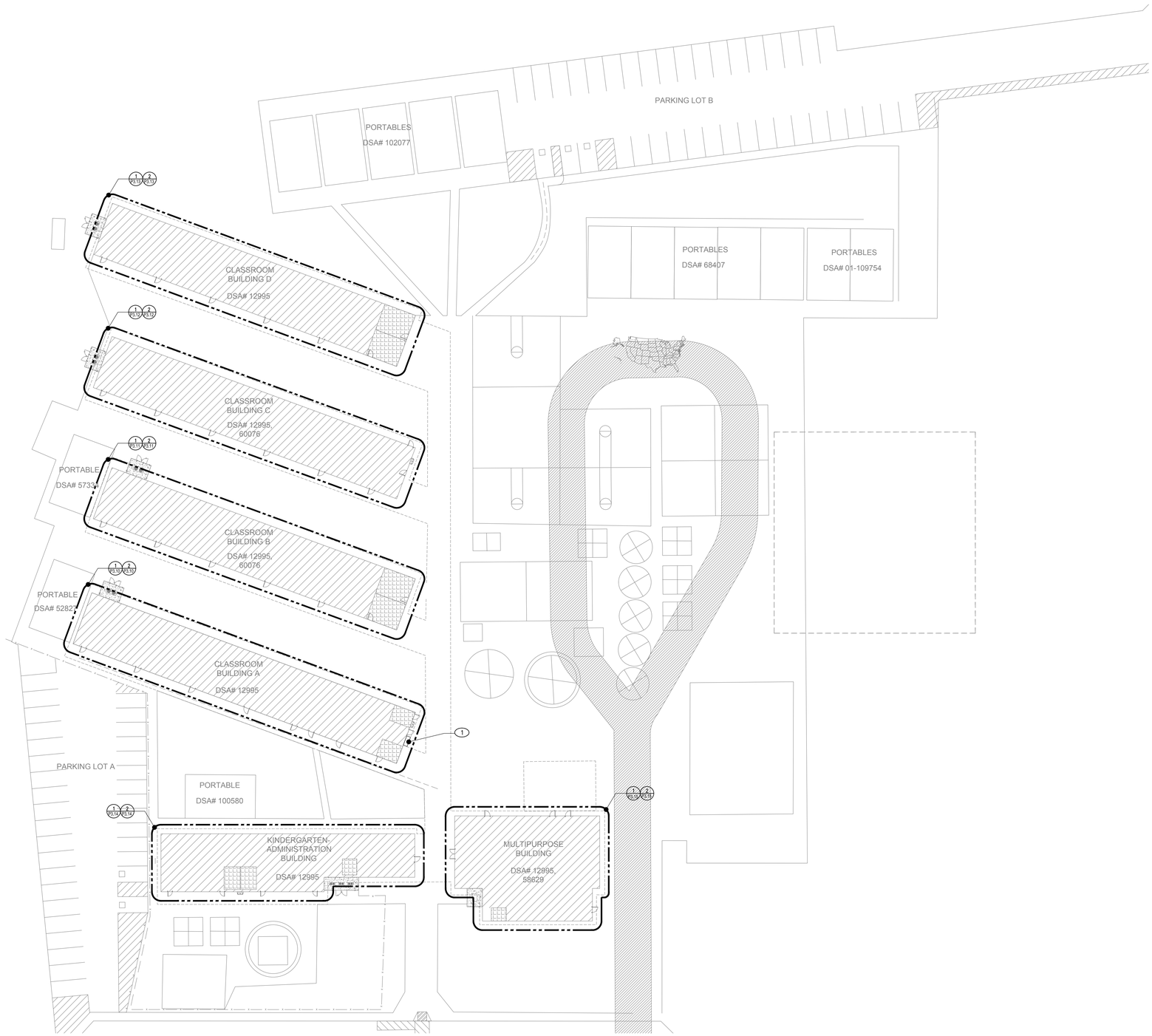
CONSTRUCTION DOCUMENTS

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PLUMBING DETAILS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	P0.02
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KEY NOTES

1. REPLACE (E) DRINKING FOUNTAIN WITH NEW. RECONNECT (E) WATER, SANITARY AND VENT.

GENERAL NOTES

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS OR DESCREPANCIES TO ARCHITECT/ENGINEER.

PLUMBING SITE PLAN 1 1" = 25'

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MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

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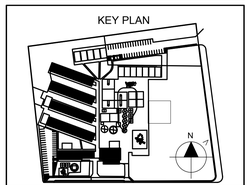
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KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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CONSTRUCTION DOCUMENTS

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2851 GAY AVE.,
SAN JOSE, CA 95127

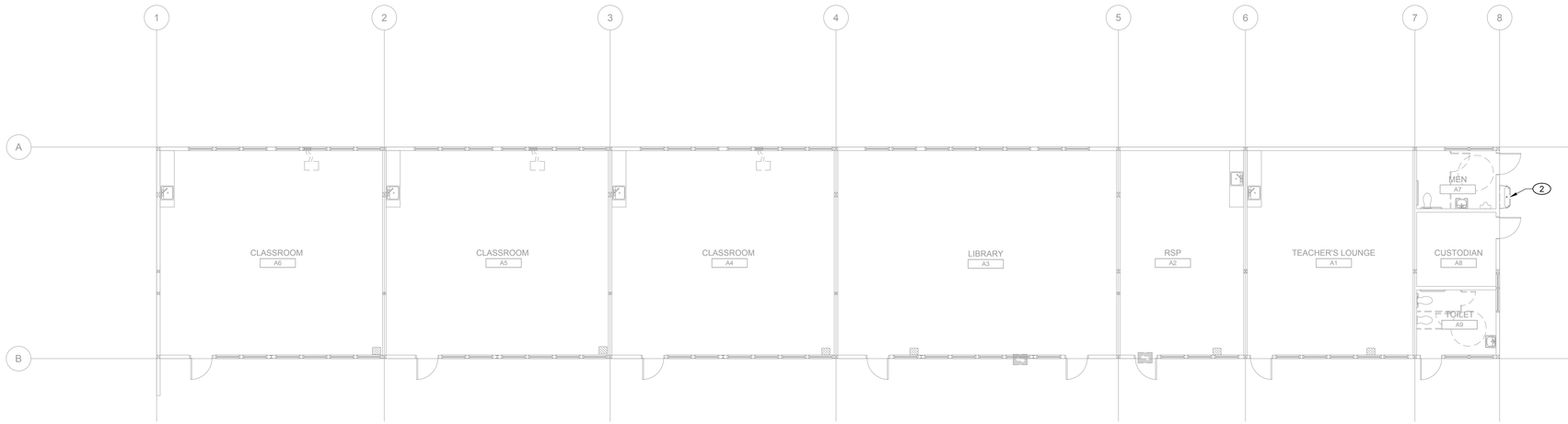
PLUMBING SITE PLAN

Date 04/24/2023	Project Number 22027
Application Number 01-120632	Drawing Number P1.00
Drawn KT / Checked CD	

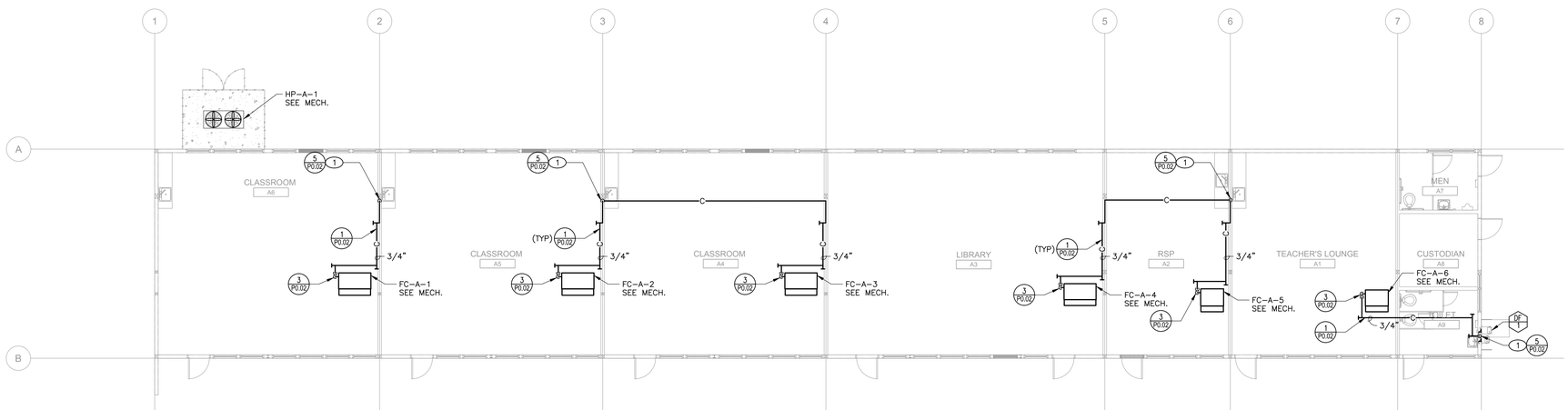
KEY NOTES

(1) DRAIN CONDENSATE TO (E) SINK TAIL PIECE.

(2) REMOVE (E) PLUMBING FIXTURES AND RETURN TO OWNER. CAP AND PLUG PIPING BEHIND FINISHED SURFACES AND PATCH TO MATCH.



DEMO PLUMBING FLOOR PLAN - BUILDING A | **1** 1/8" = 1'-0"



PLUMBING FLOOR PLAN - BUILDING A | **2** 1/8" = 1'-0"

GENERAL NOTES

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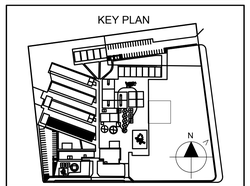
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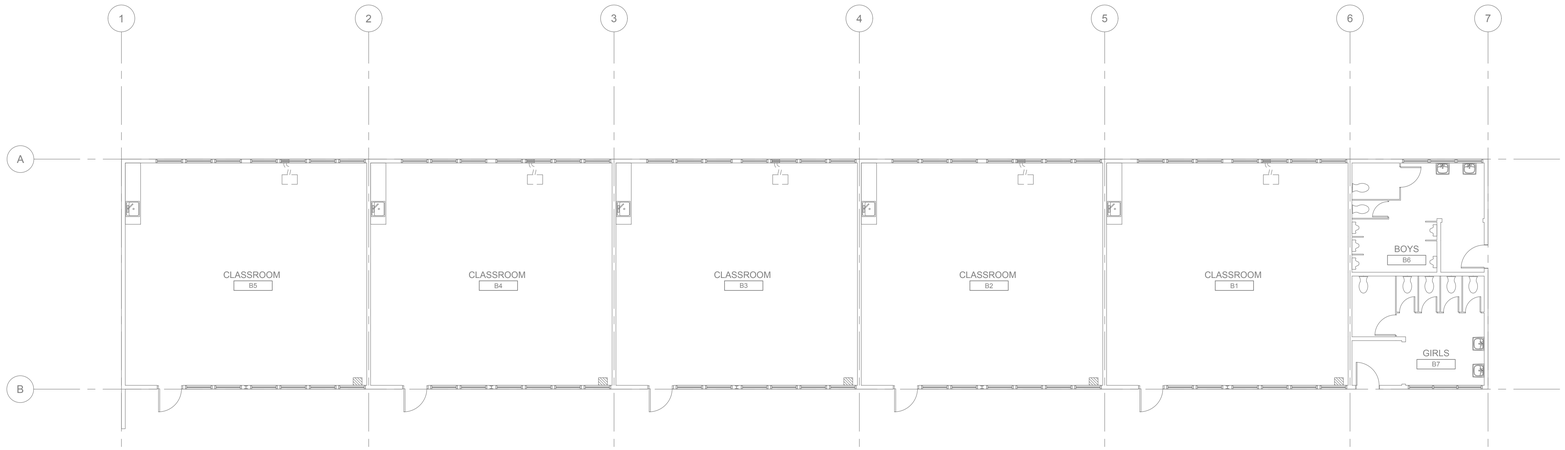
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PLUMBING FLOOR PLAN BUILDING A

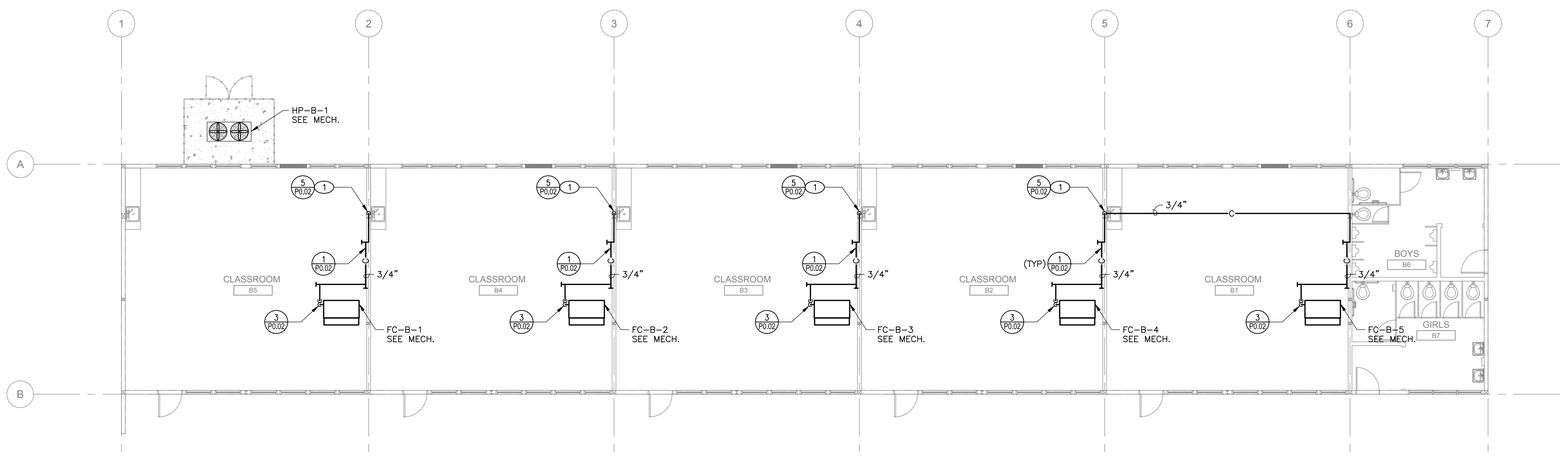
Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	P3.10
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KT / CD	

KEY NOTES

(1) DRAIN CONDENSATE TO (E) SINK TAIL PIECE.



DEMO PLUMBING FLOOR PLAN - BUILDING B | **1** 1/8" = 1'-0"



PLUMBING FLOOR PLAN - BUILDING B | **2** 1/8" = 1'-0"

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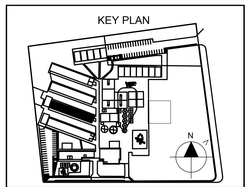
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CONSTRUCTION DOCUMENTS

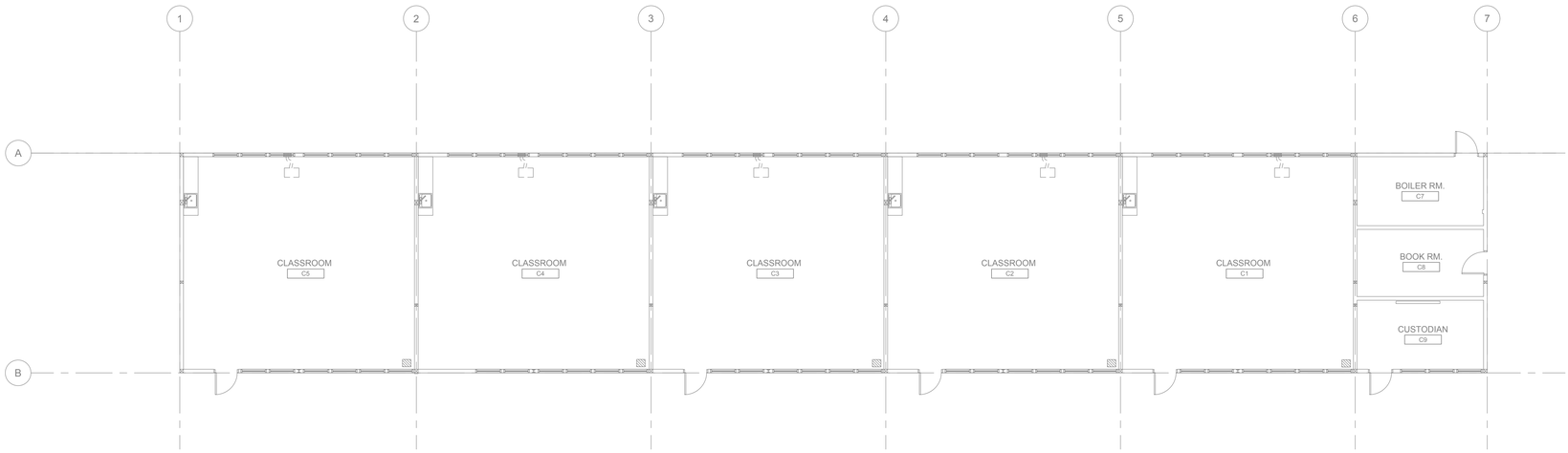
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PLUMBING FLOOR PLAN BUILDING B

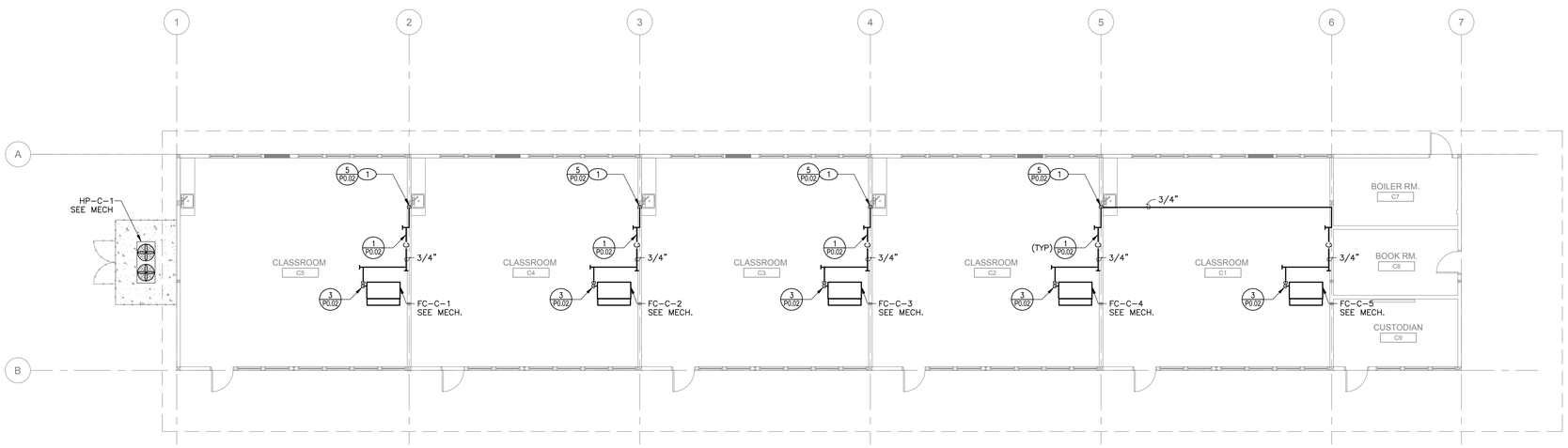
Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	P3.11
Drawn / Checked	
KT / CD	

KEY NOTES

(1) DRAIN CONDENSATE TO (E) SINK TAIL PIECE.



DEMO PLUMBING FLOOR PLAN - BUILDING C | **1** 1/8" = 1'-0"



PLUMBING FLOOR PLAN - BUILDING C | **2** 1/8" = 1'-0"

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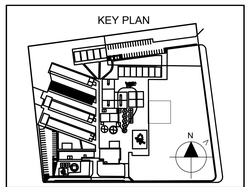
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

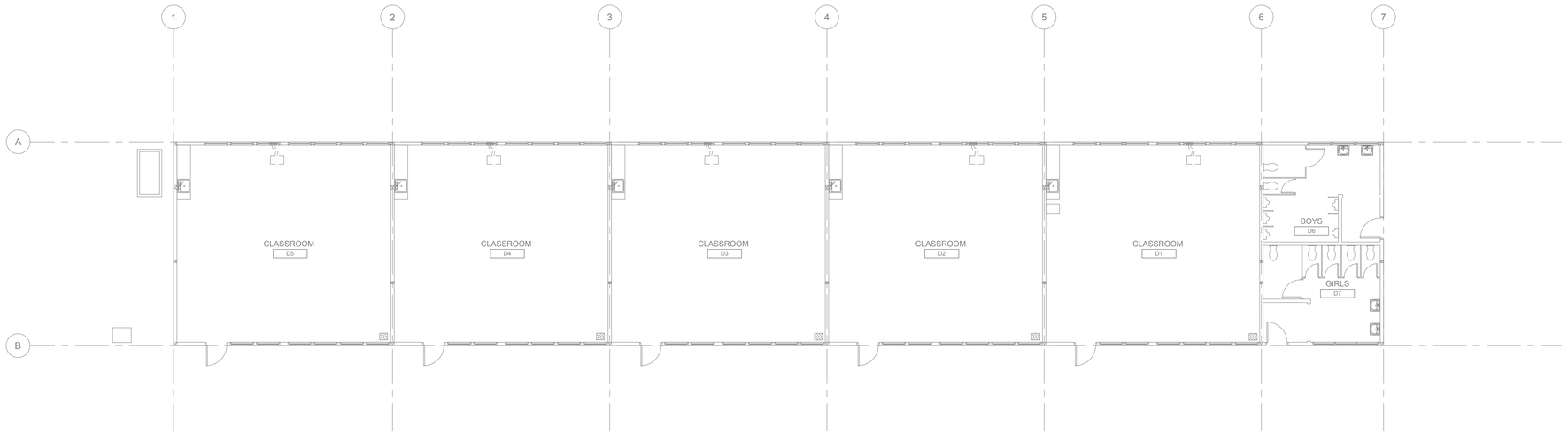
2851 GAY AVE.,
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PLUMBING FLOOR PLAN BUILDING C

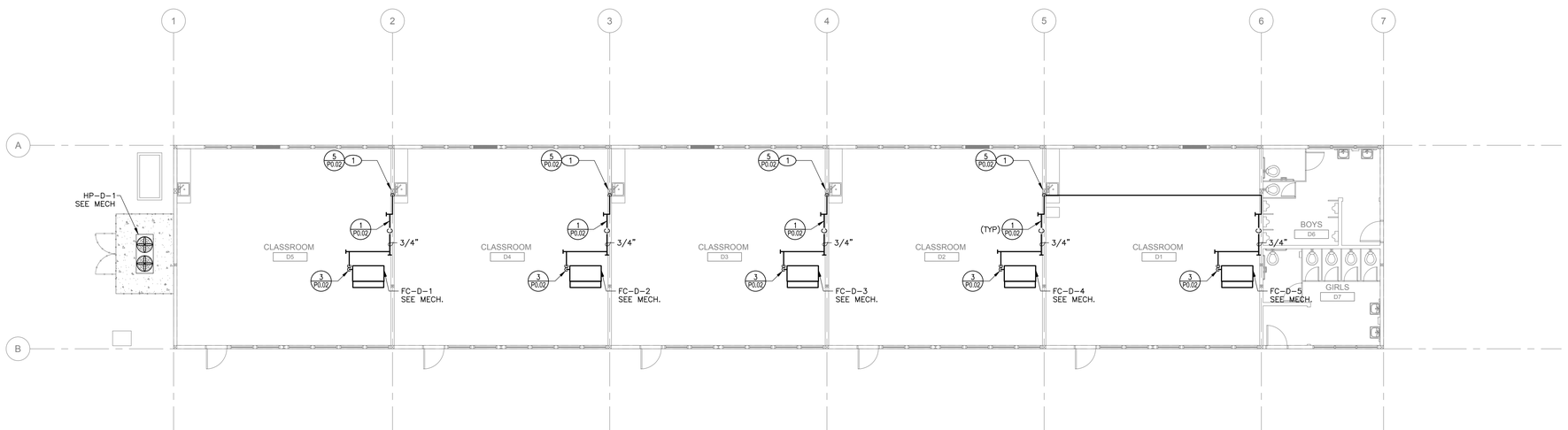
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KEY NOTES

(1) DRAIN CONDENSATE TO (E) SINK TAIL PIECE.



DEMO PLUMBING FLOOR PLAN - BUILDING D | **1** 1/8" = 1'-0"



PLUMBING FLOOR PLAN - BUILDING D | **2** 1/8" = 1'-0"

GENERAL NOTES

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS OR DISCREPANCIES TO ARCHITECT/ENGINEER.

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STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER JORDAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

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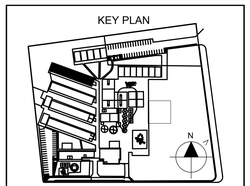
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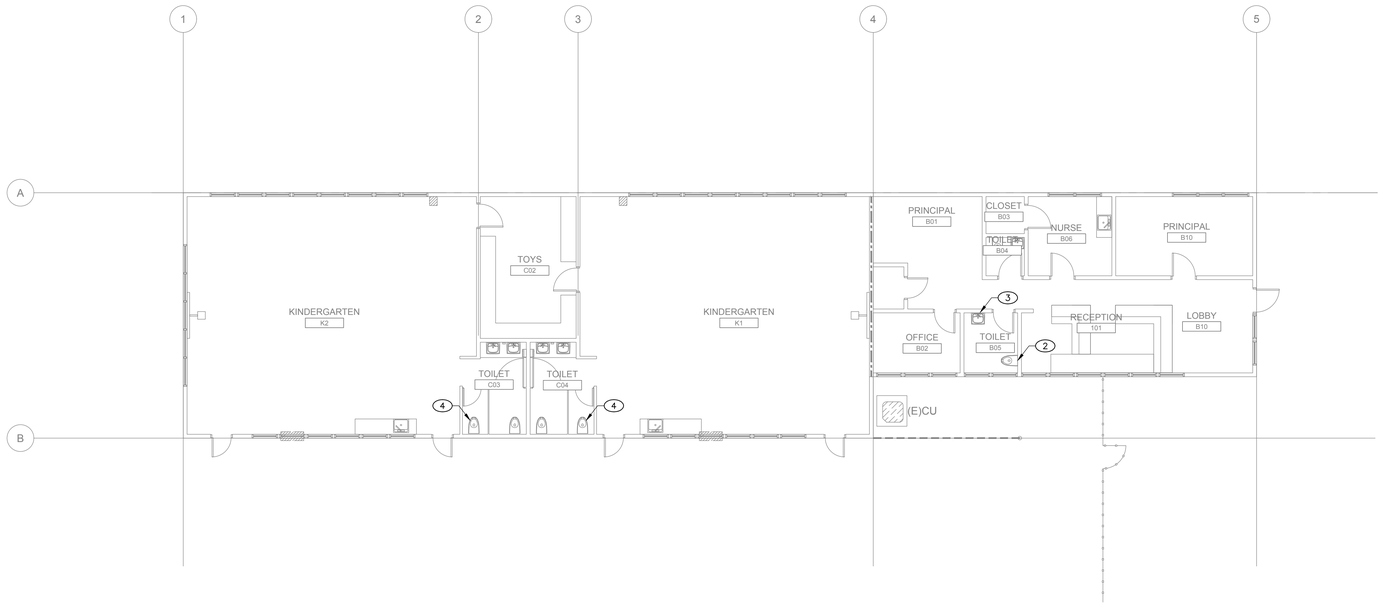
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
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PLUMBING FLOOR PLAN BUILDING D

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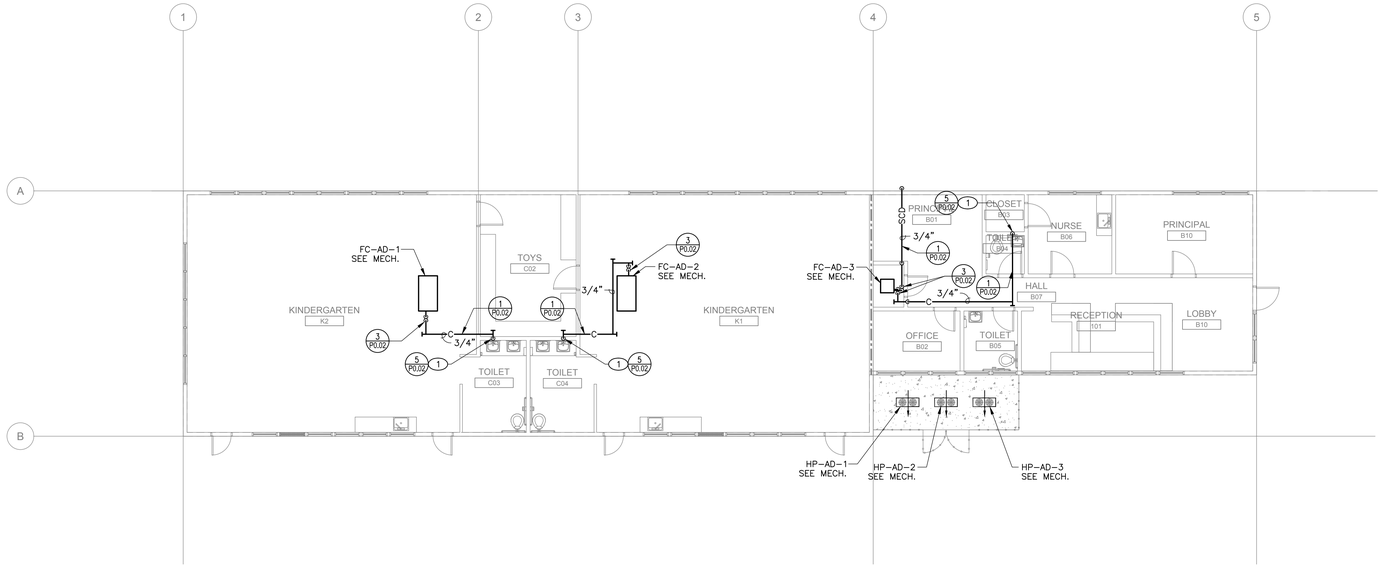
DEMO PLUMBING FLOOR PLAN - ADMIN BUILDING

1

1/8" = 1'-0"

KEY NOTES

1. DRAIN CONDENSATE TO (E) SINK TAIL PIECE.
2. RELOCATE (E) WATER CLOSET AND RECONNECT TO (E) PLUMBING CONNECTIONS.
3. RELOCATE (E) LAVATORY AND RECONNECT TO (E) PLUMBING CONNECTIONS.
4. DEMO (E) WATER CLOSET. CAP (E) PIPING IN WALL AND BELOW FLOOR.



PLUMBING FLOOR PLAN - ADMIN BUILDING

2

1/8" = 1'-0"

GENERAL NOTES

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Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

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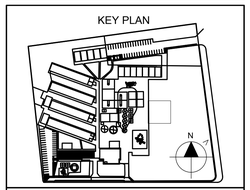
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KEY PLAN



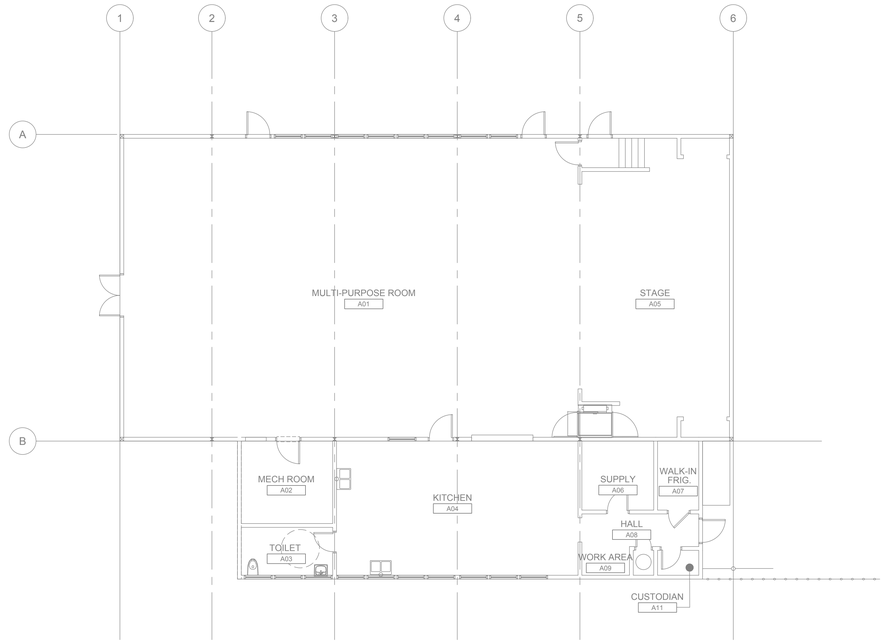
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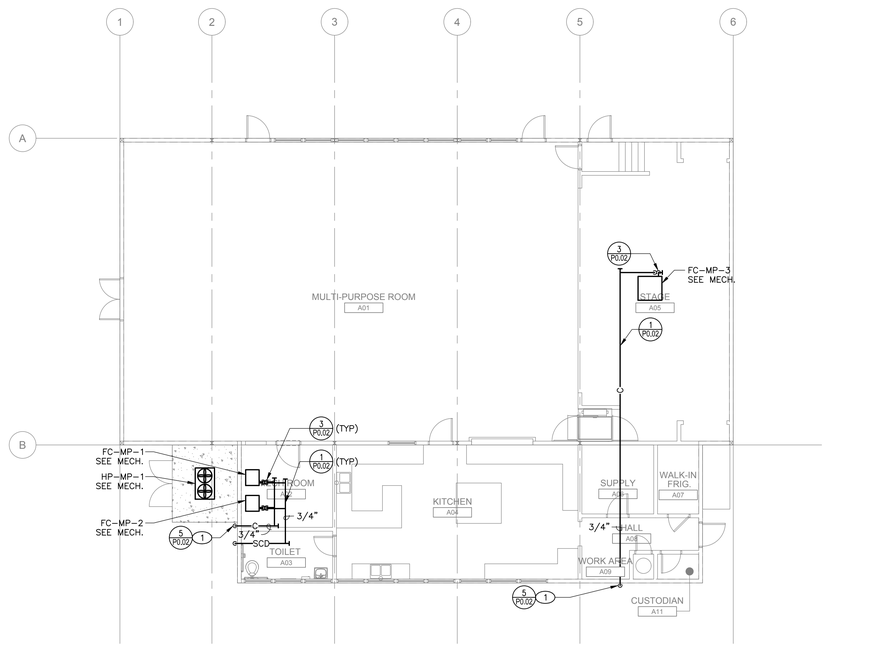
PLUMBING FLOOR PLAN ADMIN BUILDING

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DEMO PLUMBING FLOOR PLAN - MULTIPURPOSE BUILDING | 1

1/8" = 1'-0"



PLUMBING FLOOR PLAN - MULTIPURPOSE BUILDING | 2

1/8" = 1'-0"

KEY NOTES

(1) DRAIN CONDENSATE DOWN LOW TO EXISTING FLOWER BED.

GENERAL NOTES

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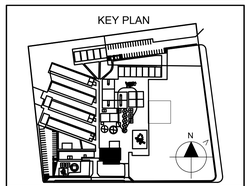
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KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

PLUMBING
FLOOR PLAN
MULTIPURPOSE
BUILDING

Date	Project Number
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EQUIPMENT ANCHORAGE NOTES

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 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7–16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE 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 APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. 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 WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE 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 AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

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 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE–APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP E — ☐ ☐ ☐ ☒ — OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP MD PP E — ☐ ☐ ☐ ☐ — OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE–APPROVAL (OPM#) #0043–13.

OCCUPANCY & DAYLIGHTING SENSOR NOTES

1. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS SYSTEMS OPERATION:

   A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORS IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. ROOMS SHALL HAVE NINETY (90) TO ONE HUNDRED (100) PERCENT COVERAGE TO COMPLETELY COVER THE CONTROLLED AREA TO ACCOMMODATE OCCUPANCY HABITS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOM(S). THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM.

   B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE– INSTALLATION MEETING WITH MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE, AT THE OWNER'S FACILITY, TO VERIFY PLACEMENT OF SENSORS AND INSTALLATION CRITERIA.

   C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE PROPER ADJUSTMENTS TO ASSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM. IF THE CONTRACTOR IS INCAPABLE TO MAKE PROPER ADJUSTMENTS, THE CONTRACTOR SHALL PROVIDE THE FACTORY STARTUP IN THAT THE MANUFACTURER'S RESPONSIBILITY TO VERIFY PROPER ADJUSTMENTS AND TRAIN OWNER'S PERSONNEL TO ENSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM.

   D. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE INSTALLATION SO AS TO ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS. THE CONTRACTOR SHALL ALSO PROVIDE, AT THE OWNER'S FACILITY, THE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT, AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES AND SYSTEMS.

2. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS COMMISSIONING:

   A. UPON COMPLETION OF THE INSTALLATION, CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE–FREE OCCUPANCY–BASED LIGHTING CONTROL SYSTEM.

   B. UPON COMPLETION OF THE SYSTEM FINE TUNING, THE CONTRACTOR SHALL ARRANGE FOR THE FACTORY AUTHORIZED TECHNICIAN TO PROVIDE THE PROPER TRAINING TO THE OWNER'S PERSONNEL IN THE ADJUSTMENT AND MAINTENANCE OF THE SENSORS.

   C. LIGHTING CONTROLS COMMISSIONING, INSPECTIONS (INCLUDING STATE OF CALIFORNIA ENERGY COMMISSION INSPECTION FORMS AND APPLICATIONS), TESTING, PROGRAMMING AND TUNING OF LIGHTING CONTROL SENSORS, DEVICES AND COMPONENTS, ETC. SHALL BE INCLUDED IN THE LIGHTING CONTROL PACKAGE AND PRICE.ANY LABOR, TOOLS AND MATERIALS REQUIRED TO PROVIDE A COMPLETE LIGHTING CONTROL SYSTEM SHALL BE AT NO EXTRA COST TO THE OWNERS OR END–USERS.

ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTIONS
AC	ABOVE COUNTER
AF	AMPERE FRAME OR FUSE
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFS	AUTOMATIC FIRE SPRINKLER
AIC	AMPS INTERRUPTING CAPACITY RATING
AMP, A	AMPERES
APPR	APPROVED
AS	AMPERE SWITCH RATING
AT	AMPERE TRIP RATING OF BREAKER
AUTO	AUTOMATIC
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BMS	BUILDING MANAGEMENT SYSTEM
BKR	BREAKER
C	CONDUIT
cd	CANDELA
CEC	CALIFORNIA ELECTRICAL CODE
CFL	COMPACT FLUORESCENT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CKT	CIRCUIT
CNTRL	CONTROL
CO	CONDUIT ONLY w/PULL STRING
CSFM	CALIFORNIA STATE FIRE MARSHALL
CT	CURRENT TRANSFORMER
CU	COPPER
CWP	COLD WATER PIPE
DEF	DEFROST
DISC	DISCONNECT
DIST	DISTRIBUTION
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EDF	ELECTRIC DRINKING FOUNTAIN
EL	EVENING LIGHT
ELEV	ELEVATION
EM	EMERGENCY LIGHT
EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE RESISTOR
EP	EMERGENCY POWER
EQPT	EQUIPMENT
EXH	EXHAUST
(E)	EXISTING
(ED)	EXISTING TO BE DEMOLISHED
(F)	FUTURE
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FF	FINISHED FLOOR
FG	FINISHED GRADE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
GFCI	GROUND FAULT CURRENT INTERRUPTER
GND	GROUND
HP	HORSE POWER
HZ	HERTZ
IG	ISOLATED GROUND
INC	INCANDESCENT
ISC	SHORT CIRCUIT CURRENT
ISOL	ISOLATED
JBOX	JUNCTION BOX
kcmil	THOUSAND CIRCULAR MILS
kV	KILOVOLTS
kW	KILOWATTS
kVA	KILOVOLT AMPERES
LT, LTS	LIGHT, LIGHTS
LTG	LIGHTING
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPOE	MAIN POINT OF ENTRY
MS	MOTION SENSOR
MSB	MAIN SWITCHBOARD
MT	CONDUIT ONLY w/PULL STRING
MTD	MOUNTED
(N)	NEW
NEMA	NATIONAL ELECTRIC MANUFACTURER ASSOCIATION
NIES	NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECIFICATIONS
N.I.C.	NOT IN CONTRACT
NL	NIGHT LIGHT
NT	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OL	OVERLOAD
PH, P	PHASE OR POLE
PB	PULLBOX
PFB	PROVIDE FOR FUTURE BREAKER
PIV	POST INDICATOR VALVE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PWR	POWER
(R)	RELOCATED
RCP	REFLECTED CEILING PLAN
RECPT	RECEPTACLE
REQD	REQUIRED
RGSC	RIGID GALVANIZED STEEL CONDUIT
SHLD	SHIELDED
SHT	SHEET
SPD	SURGE PROTECTION DEVICE
SPECS	SPECIFICATIONS
SW	SWITCH
SYM	SYMMETRICAL
TEMP	TEMPERATURE
TOF	TIMED OFF DELAY
TS	TAMPER SWITCH
TSTAT	THERMOSTAT
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UGPS	UNDERGROUND PULL SECTION
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE
V	VOLTS
VL	VERIFY LOCATION
W	WATTS
w/	WITH
WP	WEATHERPROOF
WPL	WEATHERPROOF LOCKING
WPU	WEATHERPROOF WHILE IN USE
(X)	REMOVE
XFMR	TRANSFORMER

GENERAL NOTES

ALL GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

1. THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS. SOME OF THE GENERAL NOTES ARE EXCERPTS FROM THE SPECIFICATION.
2. PROCURE PERMITS AND LICENSES REQUIRED. PAY ALL NECESSARY FEES AND ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL CODES AND ORDINANCES AND UTILITY COMPANIES.
3. COORDINATE ALL ELECTRICAL SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND PROVIDE ALL TRENCHING, CONDUITS, WIRING, METER FACILITIES AND OUTLETS REQUIRED BY THEM.
4. WORKMANSHIP SHALL BE OF THE HIGHEST GRADE. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE ACCEPTANCE OF THE ARCHITECT.
5. INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES (CEC, STATE, COUNTY AND CITY).
6. DO NOT SCALE PLANS FOR FIXTURES, DEVICES, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK MECHANICAL AND ARCHITECTURAL PLANS. ALSO REFER TO ACTUAL ON–SITE CONDITIONS.
7. ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CEC 110.3.
8. ALL ELECTRICAL DEVICES AND EQUIPMENT, FIXTURES, CONDUITS AND WIRING SHOWN ON THESE PLANS ARE NEW, UNLESS OTHERWISE NOTED.
9. OUTLET BOXES INSTALLED IN FIRE WALLS SHALL BE ONE–PIECE STEEL AND INSTALLED IN SEPARATE (STAGGERED) STUD PENETRATIONS, MINIMUM 24 INCHES HORIZONTAL SEPARATION. FIRE WALLS SHALL BE MADE IN ACCORDANCE WITH CBC AND ELECTRICAL CODES.
10. THE FINAL LOCATION OF ALL OUTLETS SHALL BE VERIFIED WITH THE ARCHITECT AND/OR OWNER AT TIME OF CONSTRUCTION.
11. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER–PROTECTED.
12. CONTRACTOR SHALL VERIFY THAT ALL LIGHTING FIXTURES, CEILING TRIMS, AND FRAMES ARE COMPATIBLE WITH CEILING SYSTEM INSTALLED.
13. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS AND INSTALLATIONS WITH THE MECHANICAL CONTRACTOR. MAINTAIN REQUIRED CLEARANCES (MINIMUM 3 INCHES) BETWEEN THE LIGHT FIXTURES AND MECHANICAL DUCTS OR EQUIPMENT FOR PROPER OPERATION, INSTALLATION AND/OR REMOVAL OF FIXTURES.
14. BEFORE SUBMITTING FOR ARCHITECT'S REVIEW AND PLACING ORDER FOR THE LIGHT FIXTURES, THE CONTRACTOR SHALL VERIFY THE VOLTAGE OF ALL THE LIGHTING FIXTURES TO MATCH THE VOLTAGE OF THE SERVICE PANEL, WHETHER THE VOLTAGE FOR THE LIGHT FIXTURES ARE SHOWN ON THE PLAN OR NOT.
15. PLACEMENT AND CIRCUITING OF EXIT SIGNS AND EGRESS LIGHTING SHALL COMPLY WITH CBC REQUIREMENTS.
16. ALL CONDUIT SHALL BE ROUTED CONCEALED UNLESS NOTED ON PLAN OR ACCEPTED BY THE ARCHITECT.
17. PROVIDE ALL NECESSARY SLEEVES AND INSERTS FOR ALL WORK PASSING THROUGH OR ATTACHING TO WALLS, FLOORS, OR CEILINGS.
18. ALL WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT, UNLESS OTHERWISE NOTED. CONDUITS INSTALLED CONCEALED IN WALL AND CEILING MAY BE EMT WITH STEEL COMPRESSION TYPE FITTINGS. PVC WHERE INSTALLED UNDERGROUND AND/OR UNDER SLAB. ALL EXPOSED CONDUITS SHALL BE RIGID STEEL CONDUITS WITH THREADED TYPE FITTINGS. INSTALL ALL CONDUITS IN ACCORDANCE WITH CECA STANDARDS OF INSTALLATION.
19. ELECTRICAL NON–METALLIC TUBING (ENT) AND MC CABLE ARE NOT PERMITTED TO BE USED FOR THIS PROJECT, NO EXCEPTIONS.
20. WHERE EXISTING CONDUITS, CONCEALED OR EXPOSED, AND (WIREMOLD) SURFACE RACEWAY IS NOT IN PLACE AS SHOWN ON PLANS, PROVIDE NEW CONDUITS AND (WIREMOLD) SURFACE RACEWAY FOR THE NEW WORK. VERIFY EXISTING CONDITION ON SITE AND PROVIDE ALL NECESSARY NEW MATERIAL, APPARATUS, AND WORK THAT ARE REQUIRED TO BE INCLUDED IN THE BID PACKAGE.
21. CONDUCTORS, #8 AND LARGER, SHALL BE STRANDED COPPER WITH THNN/THWN INSULATION, UNLESS OTHERWISE NOTED.
22. PROVIDE WORKING CLEARANCE PER CEC 110.26 FOR SERVICE PANEL, SUBPANELS, MOTOR DISCONNECT SWITCHES, CONTROL SECTIONS. HVAC EQUIPMENT, APPLIANCES, ETC.
23. PROVIDE A WARNING LABEL (SIGN) CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH NEC AND CEC 116.16 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC SECTION 110.24(A).
24. BUILDING SERVICE AND SUBPANELS TO COMPLY WITH CEC 110.9 AND 110.10 INTERRUPTING RATING AND BRACING. PROVIDE A.I.C. CALCULATIONS FOR SUBPANELS IF INTERRUPTING RATING TO BE USED IS LOWER THAN MAIN SERVICE RATING.
25. ALL APPLIANCES SHALL COMPLY WITH CEC ARTICLE 422. APPLIANCE CONTROL AND PROTECTION PER CEC 422–III; BRANCH CIRCUITS PER 422–II.
26. BUILDING EXPANSION JOINTS MAY OR MAY NOT BE INDICATED ON THE ELECTRICAL DRAWINGS. VERIFY THE LOCATIONS OF ALL APPLICABLE BUILDING EXPANSION JOINTS WITH THE ARCHITECTURAL DRAWINGS. WIRING METHODS ACROSS EXPANSIONS JOINTS SHALL INCLUDE USE OF FLEXIBLE FITTINGS OR OTHER DEVICES AS APPROPRIATE TO EACH APPLICATION. IN NO CASE SHALL CONDUIT CROSS SUCH A JOINT IN BUILDING CONSTRUCTION WITHOUT USE OF THE APPROPRIATE WIRING METHODS.
27. CONTRACTOR SHALL SIZE ALL THE INTERIOR AND EXTERIOR BUILDING PULL BOXES AND UNDERGROUND PULL BOXES PER CEC 314.16 AND COMPLY WITH CEC 314.28 FOR INSTALLATION OF RACEWAYS AND WIRING AS REQUIRED BY CODE, UNLESS OTHERWISE NOTED.
28. WHERE ACCESSIBILITY IS NOT AVAILABLE TO ELECTRICAL OUTLETS, DEVICES AND/OR EQUIPMENT, COORDINATE WITH THE ARCHITECT FOR PROVISIONS TO PROVIDE ACCESSIBILITY TO THEM.
29. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL DRAWINGS AND PROVIDES ALL CONDUITS AND CONTROL WIRING AND POWER WIRING SHOWN ON THE MECHANICAL DRAWINGS THAT IS NOT SHOWN ON THE ELECTRICAL PLANS.
30. CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS AND COORDINATE FOR THE EQUIPMENT LOCATIONS. COORDINATE ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR FOR MECHANICAL CONNECTIONS. ENTER ROOF MOUNTED UNITS THROUGH EQUIPMENT MOUNTING CURBS WHERE POSSIBLE. VERIFY ON–SITE.
31. PROVIDE CONVENIENCE OUTLET WITHIN 25 FEET OF MECHANICAL EQUIPMENT PER U.M.C. WHERE LOCATED OUTSIDE, PROVIDE WEATHER PROOF AND GFCI CONVENIENCE OUTLET. SECURE ROOF MOUNTED OUTLET TO THE MECHANICAL EQUIPMENT. VERIFY LOCATION IN FIELD WITH THE MECHANICAL CONTRACTOR.
32. VERIFY SINGLE–POINT CONNECTIONS TO ROOF MOUNTED HVAC UNITS WITH MECHANICAL CONTRACTOR ON–SITE PRIOR TO ELECTRICAL ROUGH–IN. PROVIDE DUAL DISCONNECTS IF TWO–POINT CONNECTIONS ARE REQUIRED, WHETHER SHOWN ON PLANS OR NOT.
33. SWITCH DEVICES CONTROLLING MECHANICAL EQUIPMENT SHALL BE SIZE AND TYPE REQUIRED AND SHALL BE SERVED WITH QUANTITY OF WIRES AS REQUIRED. REFER TO DIVISION 23 MECHANICAL PLANS AND SPECIFICATIONS.
34. COORDINATE THE HVAC EQUIPMENT FOR FUSES REQUIRE. WHERE FUSES ARE REQUIRED, VERIFY FUSE SIZE ON–SITE AND PROVIDE FOR HVAC EQUIPMENT PER UNIT NAMEPLATE SPECIFICATIONS.
35. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430–IX AND 440.II.
36. MOTOR STARTERS FOR HVAC EQUIPMENT ARE PROVIDED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
37. ALL CONNECTIONS FROM THE DISCONNECT SWITCHES TO HVAC UNITS SHALL BE COPPER CONDUCTORS. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430–VII, 430–VIII, AND 440–II.
38. VERIFY LOCATION AND HEIGHT OF ALL MECHANICAL OR FIXTURE EQUIPMENT OUTLETS WITH SUPPLIER PRIOR TO ANY ROUGH–IN WORK. PROVIDE ALL RUNS AND CONNECTIONS TO EQUIPMENT.
39. ALL TERMINATION PROVISIONS OF EQUIPMENT, INCLUDING CIRCUITS RATED 100 AMPERES OR LESS, SHALL BE RATED AT 60 DEGREE, CENTIGRADE PER CEC 110.14(c).
40. ALL LIGHT FIXTURES INSTALLED OVER FOOD HANDLING OR FOOD PREPARATION AREAS, OPEN FOOD STORAGE AND UTENSIL WASHING AREAS SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE READILY CLEANABLE.
41. ALL CONDUITS SHALL BE CONCEALED BELOW SLAB, IN WALLS AND/OR ABOVE CEILINGS EXCEPT IN ELECTRICAL ROOMS, MECHANICAL ROOMS, AND OTHER SIMILAR UTILITY ROOMS AS APPROVED BY THE ARCHITECT. NO CONDUIT SHALL BE EXPOSED ON EXTERIOR BUILDING SURFACES WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.
42. PROVIDE A CODE SIZED GROUND CONDUCTOR IN ALL CONDUITS WHETHER INDICATED ON PLANS OR NOT.

DEMOLITION GENERAL NOTES

ALL DEMOLITION GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT, AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON–SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
2. EXISTING ELECTRICAL MAIN SERVICE IS BEING REPLACED WITH NEW THAT IS TO BE INCLUDED IN THE SCOPE OF WORK. CONTRACTOR SHALL VERIFY AND COORDINATE THE SEQUENCE OF WORK WITH THE LOCAL UTILITY COMPANY, THE OWNER/DISTRICT'S REPRESENTATIVE, AND OTHER TRADES AT THE EARLIEST START OF CONSTRUCTION FOR ALL REQUIREMENTS AND SCHEDULING OF THE REQUIRED WORK FOR A SMOOTH AND TIMELY TRANSFORMATION FROM THE EXISTING SERVICE TO THE NEW SERVICE TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY. LIMIT THE ELECTRICAL SHUTDOWN TO A MINIMUM SO IT WILL NOT AFFECT THE EXISTING FACILITY'S NORMAL DAILY FUNCTIONS AND OPERATION.
3. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTILITIES AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER/DISTRICT'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWN. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER/DISTRICT'S REPRESENTATIVE.
4. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER/DISTRICT'S REPRESENTATIVE ARE DEEMED SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER/DISTRICT. ALL ELECTRICAL MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR ACCORDINGLY.
5. WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER/DISTRICT'S REPRESENTATIVE.
6. WHERE EXISTING CONCEALED CONDUITS, WHETHER SHOWN OR NOT, OR SPECIFIED TO BE REUSED, WHICH BECAME EXPOSED DUE TO CONSTRUCTION CHANGES, IT SHALL BE REROUTED TO THE NEAREST AVAILABLE REUSED OUTLET.
7. ALL EXISTING EXPOSED CONDUITS AND/OR WIRING THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE MAINTAINED FOR EXISTING SYSTEM FUNCTION AND CONTINUITY, WHETHER SHOWN ON PLAN OR NOT, ARE TO BE REROUTED CONCEALED IN WALL AND/OR CEILING FOR A CLEAN FINISHED SURFACE WITH NO EXPOSED CONDUITS AND/OR WIRING WITHIN THE REMODELED AREA.
8. REMOVE ALL EXISTING EXPOSED CONDUITS, WIRING, ELECTRICAL OUTLETS, DEVICES, AND EQUIPMENT THAT ARE DETERMINED BY THE DISTRICT REPRESENTATIVE/OWNER AND ARCHITECT TO BE NON FUNCTIONAL AND/OR NOT BEING USED FROM WITHIN THE REMODELED AREA FOR A CLEAN FINISHED SURFACE.
9. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
   A. REMOVE ALL WIRE AND CABLE.
   B. REMOVE ALL DEVICES AND EQUIPMENT.
   C. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREAS, AS FAR AS POSSIBLE.
   D. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
10. WHEREVER EXISTING ELECTRICAL DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER/DISTRICT'S REPRESENTATIVE.
11. WHERE SHOWN ON PLAN FOR REMOVAL OF EXISTING CONDUITS, REMOVE ALL PORTIONS OF CONDUITS WHERE IT IS ACCESSIBLE AND ABANDON PORTIONS OF CONDUITS WHERE IT IS INACCESSIBLE. CUT OFF AND CAP ALL ABANDONED CONDUITS. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
12. CONTRACTOR SHALL UPDATE WITH NEW TYPEWRITTEN PANEL DIRECTORIES TO EXISTING PANELS INVOLVED IN THIS RENOVATION WORK THAT SHALL REFLECT ALL CHANGES TO THE CIRCUIT DESIGNATIONS.
13. PROVIDE AND INSTALL PROTECTIVE COVERING OVER EXISTING EQUIPMENT IN AREA WHEN INSTALLING ANY NEW WORK.
14. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
15. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR HEATERS, EXHAUST FANS, WATER HEATERS, PUMPS, ETC., WHICH ARE REQUIRED TO BE DISCONNECTED BY THE ELECTRICAL CONTRACTOR FOR REMOVAL OR ABANDONMENT BY THE MECHANICAL AND/OR PLUMBING CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SEQUENCE OF WORK WITH THE MECHANICAL AND/OR PLUMBING CONTRACTOR FOR REMOVAL OF ALL APPLICABLE STARTERS, DISCONNECT SWITCHES, AND ASSOCIATED CONDUIT, AND WIRING.
16. ALL LIGHT FIXTURES INDICATED AS RELOCATED SHALL BE CLEANED AND RE–LAMPED PRIOR TO THE RE–INSTALLATION.

ELECTRICAL SHEET INDEX

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DSA STAMP

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DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

MEP & FS / Sustainability / CxA
CONSULTING ENGINEERS
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT — BRIAN P WHITMORE — No. C 30345 — Ren. 9/30/23 — STATE OF CALIFORNIA — DATE SIGNED: 04/24/2023	REGISTERED PROFESSIONAL ENGINEER — RAMI S. ZEIDAN — No. E 16762 — Exp. 9/30/24 — ELECTRICAL — STATE OF CALIFORNIA

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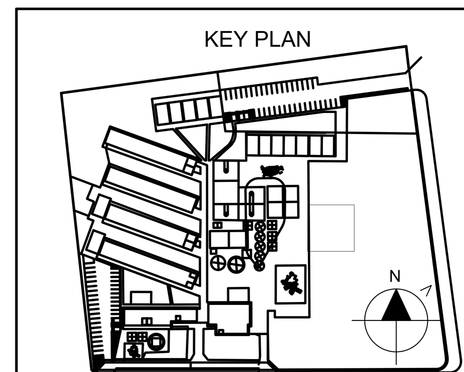
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

		DATE
○	DSA PLAN CHECK	12/23/2022
●	DSA BACK CHECK	04/24/2023
○	BIDDING	
○	CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

ELECTRICAL NOTES & ABBREVIATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E0.01

Drawn: KT — Checked: CD

ELECTRICAL SYMBOL LEGEND

ALL SYMBOLS SHOWN IN THIS LEGEND ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

SYMBOL	DESCRIPTION
	POWER
	MAIN SWITCHBOARD OR DISTRIBUTION BOARD. PAD OR FLOOR MOUNTED AS NOTED.
	RECESSED MOUNTED LIGHTING OR DISTRIBUTION PANEL
	SURFACE MOUNTED LIGHTING OR DISTRIBUTION PANEL
	RECESSED TERMINAL CABINET WITH 3/4"C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UON.
	SURFACE MOUNTED TERMINAL CABINET WITH 3/4"C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UON.
T	DISTRIBUTION TRANSFORMER, MOUNTING AND SIZE AS NOTED
	NON-FUSED DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH
F	FUSED DISCONNECT SWITCH; SIZE DISCONNECT AND FUSES PER UNIT LABEL
F	NON-FUSED / FUSED DISCONNECT; SEE DISCONNECT SWITCH SCHEDULE
	MOTOR STARTER/CONTROLLER
	COMBINATION CIRCUIT BREAKER DISCONNECT/MOTOR STARTER.
	COMBINATION FUSIBLE DISCONNECT/MOTOR CONTROLLER; PROVIDE FUSES PER MANUFACTURERE'S REQUIREMENTS. N.F. INDICATES NON-FUSED.
M	MOTOR
	POWER POINT OF CONNECTION
	DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO. SPLIT-WIRED CIRCUIT, TOP RECEPTACLE SWITCHED CONTROLLED.
	DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
LC	DUPLEX RECEPTACLE OUTLET 20A, 125V, WITH "LC" LOCKING COVER @ +16" TO BOTTOM OF BOX, UNO.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH. PROVIDE 44" MAX. TO TOP OF BOX AT AREAS WITH FORWARD APPROACH KNEE CLEARENCE, OR PROVIDE 46" MAX. TO TOP OF BOX AT AREAS WITH PARALLEL APPROACH. (CBC 11B-308).
	ISOLATED GROUND DUPLEX RECEPTACLE, 20A, 125V @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
LC	GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, WITH "LC" LOCKING COVER @ +16" TO BOTTOM OF BOX, UNO.
	GFCI DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH. PROVIDE 44" MAX. TO TOP OF BOX AT AREAS WITH FORWARD APPROACH KNEE CLEARENCE, OR PROVIDE 46" MAX. TO TOP OF BOX AT AREAS WITH PARALLEL APPROACH. (CBC 11B-308).
	ISOLATED GROUND GFCI DUPLEX RECEPTACLE 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO
	DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	ISOLATED GROUNDED DOUBLE DUPLEX RECEPTACLE 20A, 125V @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	CONTROLLED/UNCONTROLLED DOUBLE DUPLEX RECEPTACLE
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH. PROVIDE 44" MAX. TO TOP BOX AT AREAS WITH FORWARD APPROACH KNEE CLEARANCE, OR PROVIDE 46" MAX. TO TOP BOX AT AREAS WITH PARALLEL APPROACH. (CBC 11B-308).
	ISOLATED GROUND GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX. UNO
	SPECIAL RECEPTACLE OUTLET, SIZE AND NEMA CONFIGURATION AS NOTED, MOUNTED @ +16" TO BOTTOM OF BOX, UNO.
	FLOOR MOUNTED DUPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR
	FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR
	CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 125V
	CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE, 20A, 125V
$T	THERMAL OVERLOAD SWITCH
$M	MOTOR RATED SWITCH
	WALL MOUNTED JUNCTION BOX - SIZE AS REQUIRED BY CODE.
	CEILING MOUNTED JUNCTION BOX - SIZE AS REQUIRED BY CODE.
	FLOOR MOUNTED JUNCTION BOX - SIZE AS REQUIRED BY CODE.
	PLUGMOLD
	POWER POLE
	FLOOR MOUNTED COMBO DUPLEX RECEPTACLE / TELEPHONE/DATA
	FLOOR MOUNTED COMBO DOUBLE DUPLEX RECEPTACLE / TELEPHONE/DATA
PLD	PRODUCTION LIGHTING DEVICE
	CIRCUITS
	STUB
	CONTINUATION
	CONDUIT RISER - UP
	CONDUIT DROP - DOWN
	CONDUIT CONCEALED IN CEILING OR WALL.
	CONDUIT CONCEALED IN UNDERFLOOR OR UNDERGROUND
	EXISTING CONDUIT TO REMAIN.
	CONDUIT & CONDUCTORS FOR LOW VOLTAGE MOTION SENSORS
	EXISTING CONDUIT & CONDUCTORS TO REMAIN FOR LOW VOLTAGE MOTION SENSORS
	EXISTING CONDUIT AND/OR CONDUCTORS TO BE REMOVED. UNDERGROUND CONDUIT MAY BE ABANDONED IN PLACE.
	HOMERUN TO PANELBOARD OR TERMINAL CABINET WITH CONDUCTORS AS NOTED
#	CIRCUIT CONDUTORS: LONG DASH INDICATES NEUTRAL CONDUCTOR; SHORT DASHES INDICATE PHASE CONDUCTORS; CURVED DASH INDICATES EQUIPMENT GROUNDING CONDUCTOR; ADDITIONAL CURVED DASH INDICATES ISOLATED GROUNDING CONDUCTOR. NUMBER BY DASHES INDICATE WIRE GAUGE OTHER THAN 12 AWG CU. NO DASHES INDICATE 2#12 CU, 1#12 CU GND, IN1/2" CONDUIT. OTHERS AS NOTED ON PLAN. NOTE: PROVIDE A CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS FOR THIS PROJECT, WHETHER SHOWN ON PLAN OR NOT.
	FLEXIBLE CONDUIT, 6'-0" LONG MAX. WITH #12 CU GROUND UON.
	LEADERS
	BRACKET
	LEADERS

SYMBOL	DESCRIPTION
	LIGHTING
	LED LUMINAIRE - T-BAR LAY-IN
	LED LUMINAIRE - RECESSED IN GYPBOARD
	LED LUMINAIRE - SURFACE
	LED LUMINAIRE - SUSPENDED
	LED STRIP LIGHT - SURFACE OR SUSPENDED
	DOWNLIGHT LUMINAIRE - RECESSED
	WALLWASH LUMINAIRE - RECESSED
	LUMINAIRE - SURFACE
	LUMINAIRE - WALL
	LUMINAIRE - PENDANT
	TRACK LIGHT - SUSPENDED OR SURFACE MOUNTED
	CONTINUOUS LINEAR LED TAPE OR LED COVE LIGHT
EM EM EM EM	HATCHED LUMINAIRE WITH "EM" ABBREVIATION INDICATES AN EMERGENCY LUMINAIRE WITH EMERGENCY POWER CONNECTION (VIA INVERTER OR LED EMERGENCY DRIVER OR EMERGENCY GENERATOR).
	SINGLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION.
	DOUBLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL)
	COMBINATION EMERGENCY EXIT SIGN WITH DUAL HEAD LIGHTS WITH EMERGENCY BATTERY BACK-UP.
	BATTERY POWERED EMERGENCY EGRESS LUMINAIRE - SURFACE MOUNTED
	FLOOD LUMINAIRE - ROOF MOUNTED.
	SPOT/FLOOD LUMINAIRE - GROUND MOUNTED. FOR BLDG WALL MOUNTED AS WELL.
	EXTERIOR POLE FIXTURE - SINGLE HEAD
	EXTERIOR POLE FIXTURE - TWIN HEAD
	EXTERIOR PATHWAY POST TOP POLE FIXTURE
	BOLLARD FIXTURE
	STEP LUMINAIRE
	LIGHTING CONTROLS
$	SINGLE POLE TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO.
$3	THREE WAY TOGGLE SWITCH 20A,120-277V @ +46" TO TOP OF BOX, UNO.
$a,b,c	SUBSCRIPTS "a,b,c" DESIGNATE THE QUANTITY OF SWITCHES AT EACH LOCATION (TYPICAL FOR ALL SWITCH TYPES).
$K	SINGLE POLE KEYED BARREL SWITCH 20A, 120-277 @ +46" TO TOP OF BOX, UNO.
	PUSH BUTTON
	WALL DIMMER SEE CONTROL DRAWINGS FOR TYPE @ +48" TO TOP OF BOX, UNO.
	DIGITAL WALL CONTROL OVERRIDE SWITCH. RUN CABLING BACK TO LIGHTING CONTROL PANEL.
OS	OCCUPANCY SENSOR. SEE OCCUPANCY SENSOR & CONTROL SCHEDULE AND CONTROL DRAWINGS. TYPE
OS	CORNER MOUNT MOTION SENSOR. DUAL TECHNOLOGY, PIR OR ULTRASONIC. SEE OCCUPANCY SENSOR & CONTROL SCHEDULE AND CONTROL DRAWING. TYPE
DS	PHOTOCONTROL DAYLIGHT SENSOR. SEE OCCUPANCY SENSOR & CONTROL SCHEDULE AND CONTROL DRAWINGS. TYPE
	TAGS
X	KEYNOTE SHOWN ON SAME SHEET
'XX' XX-Xx	LIGHT FIXTURE TAG: FIXTURE TAG - 'XX' - CIRCUIT NUMBER; PANEL - XX-Xx - SWITCH LEG
X	FEEDER DESIGNATION TAG
X	FOOD SERVICE EQUIPMENT DESIGNATION TAG
X Ex.-1	DETAIL DESIGNATION: TOP LETTER INDICATES DETAIL, BOTTOM LETTER/NUMBER INDICATES SHEET
REF x	MECHANICAL EQUIPMENT I.D. TAG - MP&S
	ONE LINE DIAGRAM
(N) PANEL "A"	PANEL IDENTIFICATION
100A 3P	CIRCUIT BREAKER
100A 3P	FUSED SWITCH
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	GROUND
	UNDERGROUND TERMINATION SERVICE LUG
M	UTILITY METER
M	UTILITY METER WITH CURRENT TRANSFORMER COMPARTMENT METER SOCKET
	TRANSFORMER WITH GROUND
	UFER GROUND
	BOND TO COLD WATER PIPE, GAS PIPE, BUILDING STEEL
	AUTOMATIC TRANSFER SWITCH
	NEUTRAL LINK
SPD	SURGE PROTECTION DEVICE

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1930 H St.
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MEP & FS / Sustainability / CxA
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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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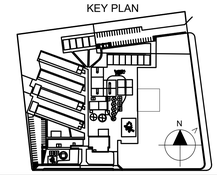
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● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



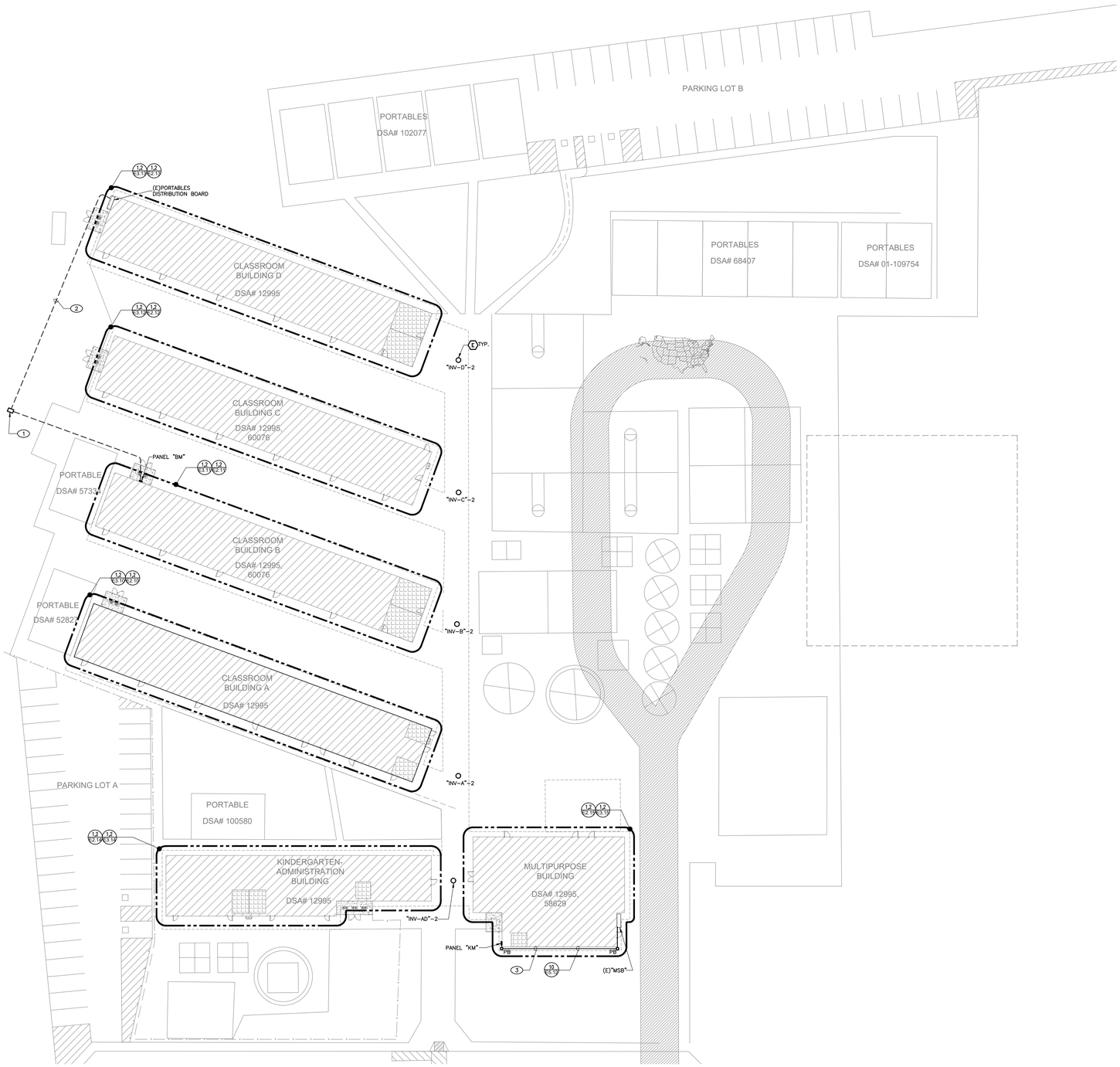
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2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

ELECTRICAL SYMBOL LEGEND

Date: 04/24/2023	Project Number: 22027
Application Number: 01-120632	Drawing Number: E0.02
Drawn: KT	Checked: CD



GENERAL NOTES

A. FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.

B. VERIFY EXACT LOCATIONS PRIOR TO CONSTRUCTION.

C. COORDINATE CONDUIT ROUTE AND PULL BOXES WITH DISTRICT AND FACILITIES.

D. UNDERGROUND CONDUITS SHALL BE SCH-40 PVC.

(#) KEY NOTES

1. PROVIDE MIN. 18"X24" UNDERGROUND ELECTRICAL PULL BOX, TRAFFIC RATED, BOLT-ON REINFORCED LID AND "ELECTRICAL" ENGRAVED ON LID. SEE 7/E5.12 FOR TYPICAL PULL BOX DETAIL.

2. PROVIDE UNDERGROUND CONDUITS FOR PANEL "BM" FEEDER. SEE ONE LINE DIAGRAM ON SHEET E5.13 FOR FEEDERS INFO.

3. PROVIDE CONDUITS UNDERSIDE OF THE EAVE FOR PANEL "KM" FEEDER. SEE ONE LINE DIAGRAM ON SHEET E5.13 FOR FEEDERS INFO.

ELECTRICAL SITE PLAN 1 (1" = 25')

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p 916-771-0778
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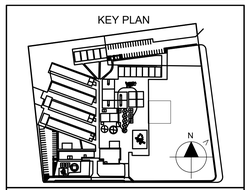
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KEY PLAN



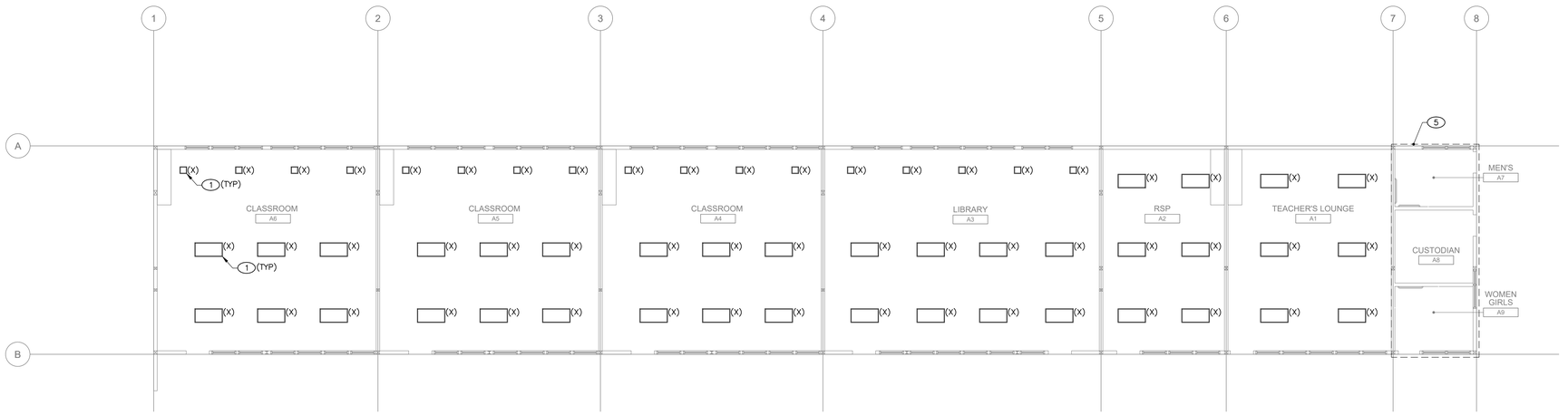
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ELECTRICAL SITE PLAN

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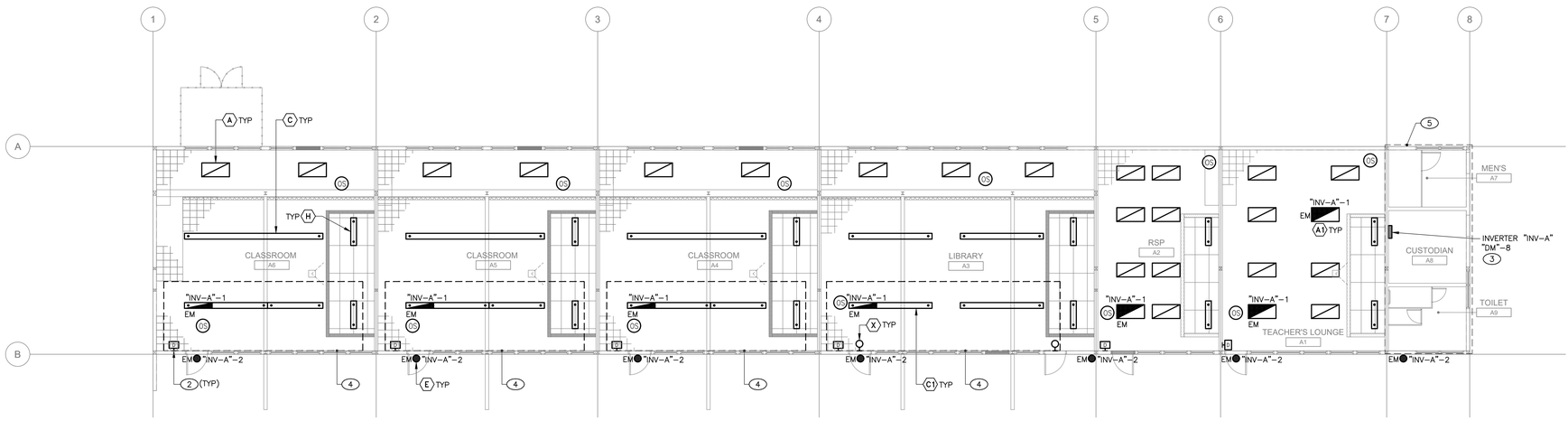


KEY NOTES

(#)

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROLS FOR INSTALLATION OF NEW FIXTURE/CONTROLS AS SHOWN AT NEW CEILING AREA, UNLESS NOTED OTHERWISE RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO NEW INVERTER UN-SWITCHED CIRCUIT IN THE AREA.
2. REPLACE EXISTING SWITCHES WITH NEW CONTROL AS SHOWN.
3. PROVIDE 1.6KW MYERS ILLUMINATOR EM EMERGENCY LIGHTING INVERTER SYSTEM, MODEL #1-EM-2-B-A-20-6.
4. PRIMARY SIDELIT LIT DAYLIT ZONE; LIGHT FIXTURE WITH SWITCHING DESIGNATION SHALL BE CONTROLLED BY PRIMARY SIDELIT DAYLIT ZONE PHOTO CONTROL SENSOR INDEPENDENTLY FROM OTHER FIXTURES.
5. LIGHTING IN THIS AREA IS EXISTING TO REMAIN.

DEMO LIGHTING PLAN - BUILDING A | **1** 1/8" = 1'-0"



GENERAL NOTES

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS/DISCREPANCIES TO ARCHITECT/ENGINEER.

NEW LIGHTING PLAN - BUILDING A | **2** 1/8" = 1'-0"

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1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
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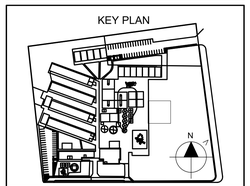
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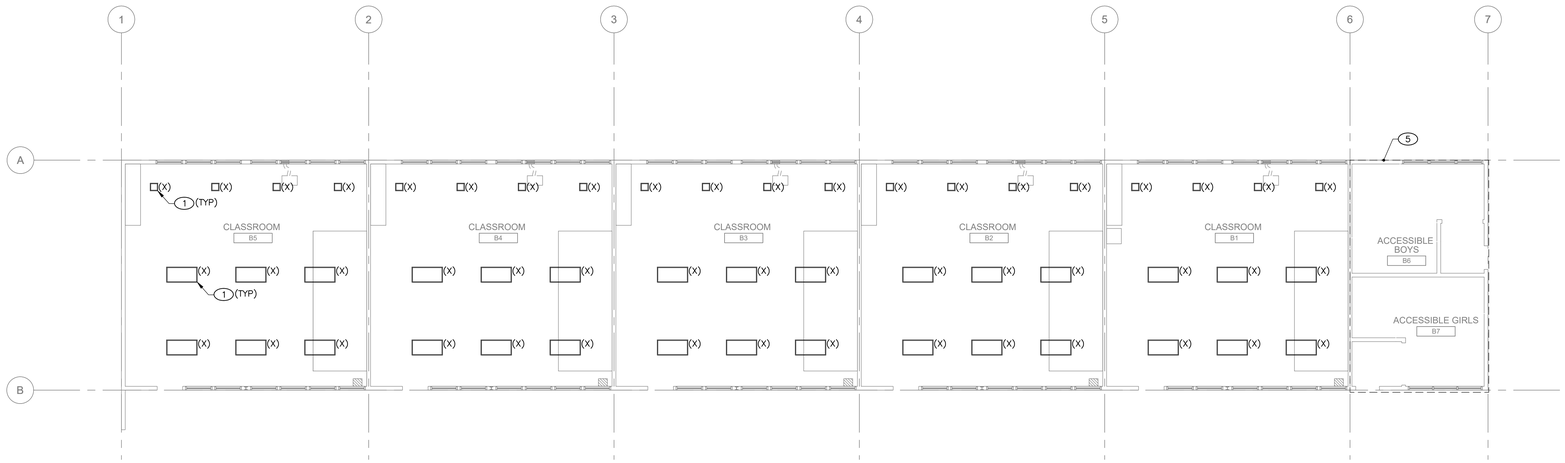
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RUSSO-MCENTEE ACADEMY

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LIGHTING PLANS
BUILDING A

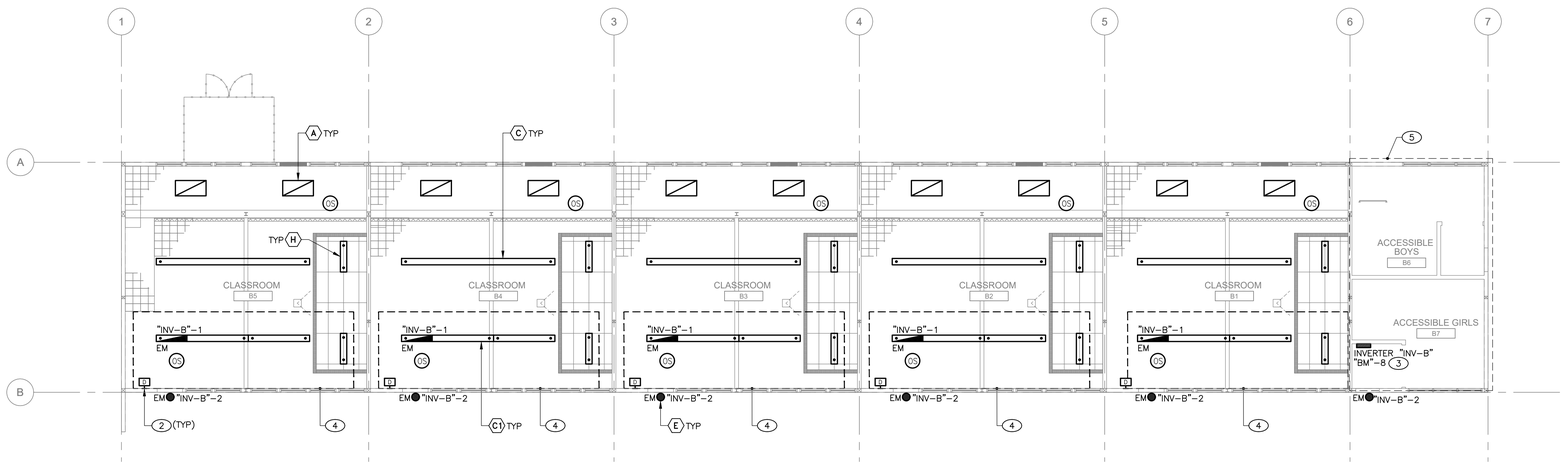
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DEMO LIGHTING PLAN - BUILDING B | **1** 1/8" = 1'-0"

KEY NOTES

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROLS FOR INSTALLATION OF NEW FIXTURE/CONTROLS AS SHOWN AT NEW CEILING AREA, UNLESS NOTED OTHERWISE. RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO NEW INVERTER UN-SWITCHED CIRCUIT IN THE AREA.
2. REPLACE EXISTING SWITCHES WITH NEW CONTROL AS SHOWN.
3. PROVIDE 1.6KW MYERS ILLUMINATOR EM EMERGENCY LIGHTING INVERTER SYSTEM, MODEL #1-EM-2-B-A-20-6.
4. PRIMARY SIDELIT LIT DAYLIT ZONE; LIGHT FIXTURE WITH SWITCHING DESIGNATION SHALL BE CONTROLLED BY PRIMARY SIDELIT DAYLIT ZONE PHOTO CONTROL SENSOR INDEPENDENTLY FROM OTHER FIXTURES.
5. LIGHTING IN THIS AREA IS EXISTING TO REMAIN.



NEW LIGHTING PLAN - BUILDING B | **2** 1/8" = 1'-0"

GENERAL NOTES

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS/DISCREPANCIES TO ARCHITECT/ENGINEER.

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Roseville, CA 95678
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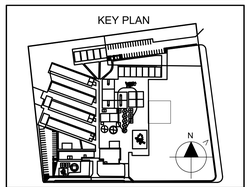
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KEY PLAN



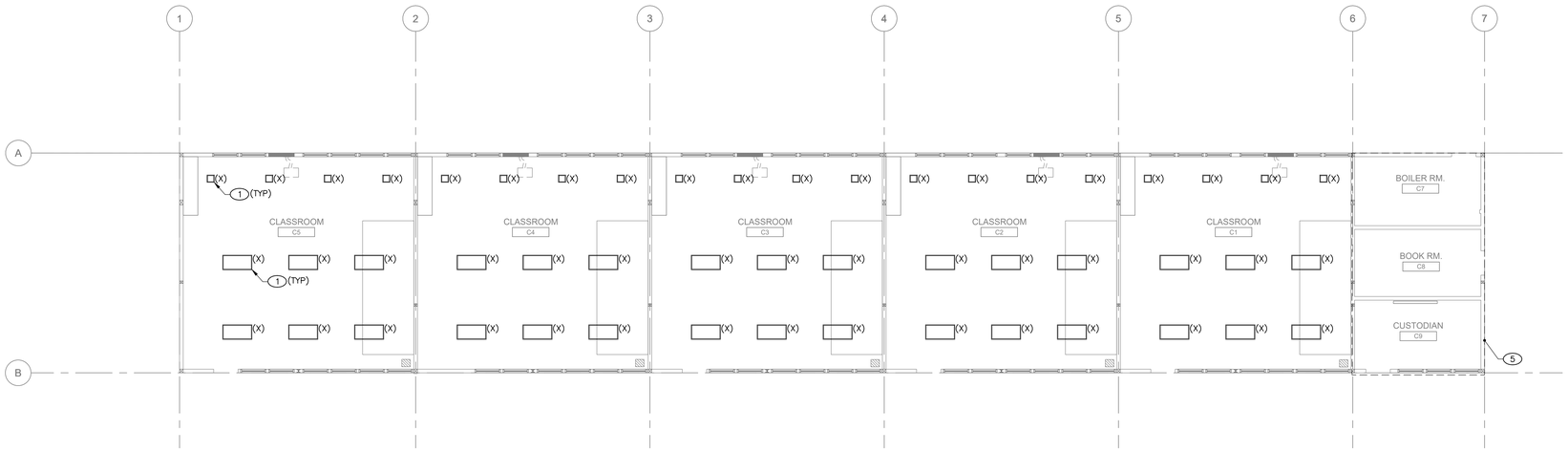
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LIGHTING PLANS BUILDING B

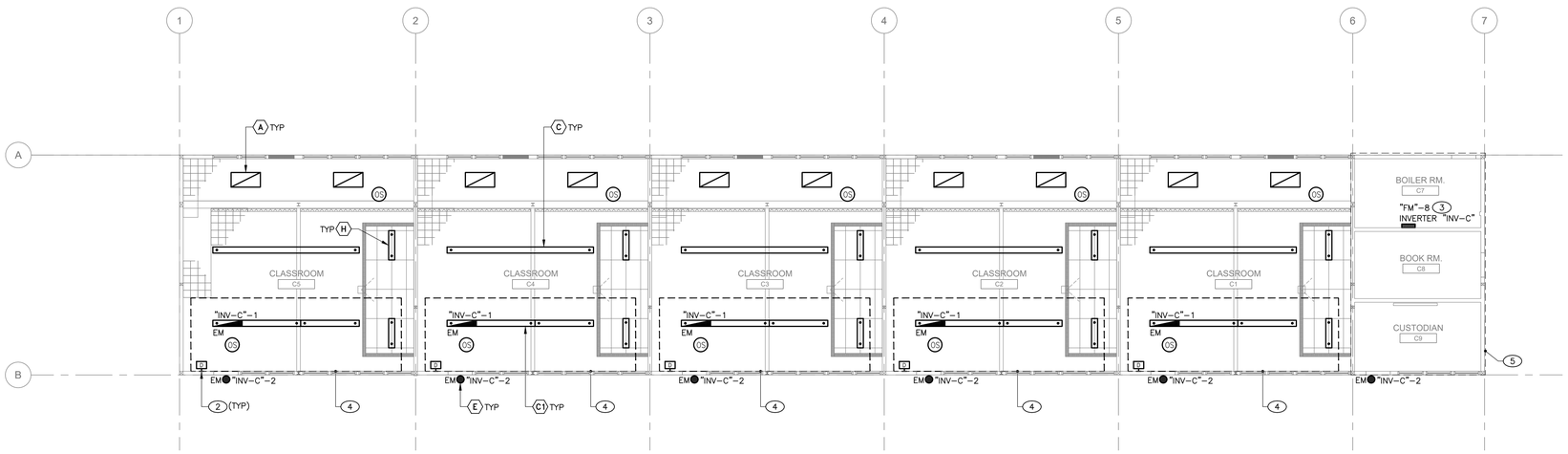
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Application Number	Drawing Number
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DEMO LIGHTING PLAN - BUILDING C | **1** 1/8" = 1'-0"

KEY NOTES

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROLS FOR INSTALLATION OF NEW FIXTURE/CONTROLS AS SHOWN AT NEW CEILING AREA, UNLESS NOTED OTHERWISE. RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO NEW INVERTER UN-SWITCHED CIRCUIT IN THE AREA.
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5. LIGHTING IN THIS AREA IS EXISTING TO REMAIN.



NEW LIGHTING PLAN - BUILDING C | **2** 1/8" = 1'-0"

GENERAL NOTES

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS/DISCREPANCIES TO ARCHITECT/ENGINEER.

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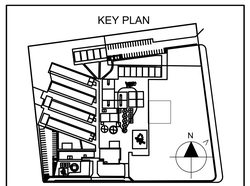
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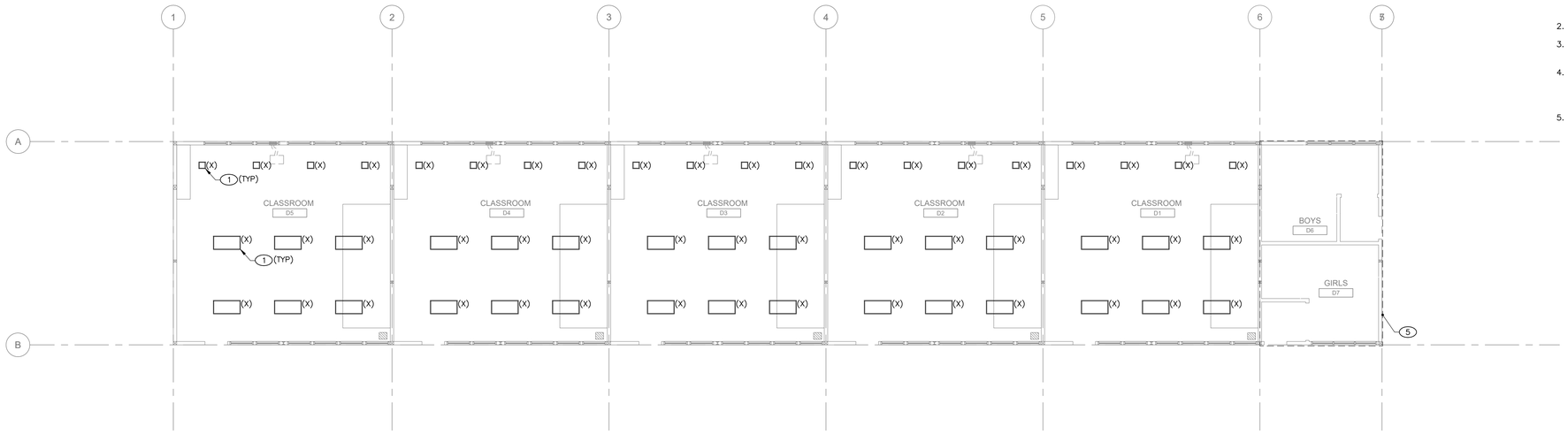
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LIGHTING PLANS BUILDING C

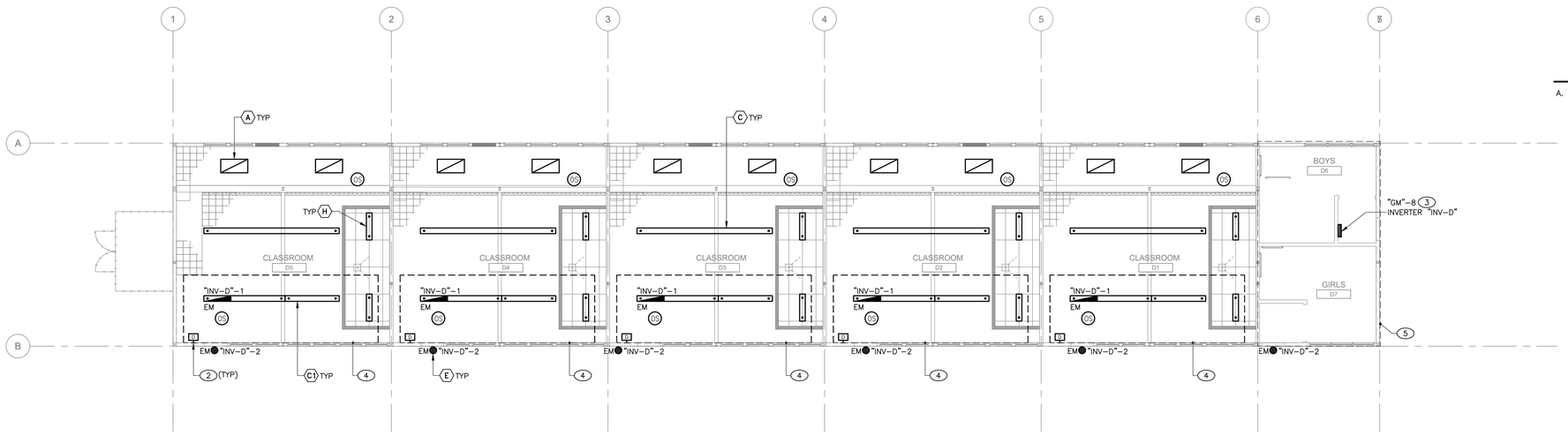
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DEMO LIGHTING PLAN - BUILDING D | **1** 1/8" = 1'-0"

KEY NOTES

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROLS FOR INSTALLATION OF NEW FIXTURE/CONTROLS AS SHOWN AT NEW CEILING AREA, UNLESS NOTED OTHERWISE. RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO NEW INVERTER UN-SWITCHED CIRCUIT IN THE AREA.
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NEW LIGHTING PLAN - BUILDING D | **2** 1/8" = 1'-0"

GENERAL NOTES

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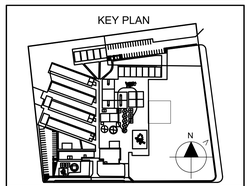
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KEY PLAN



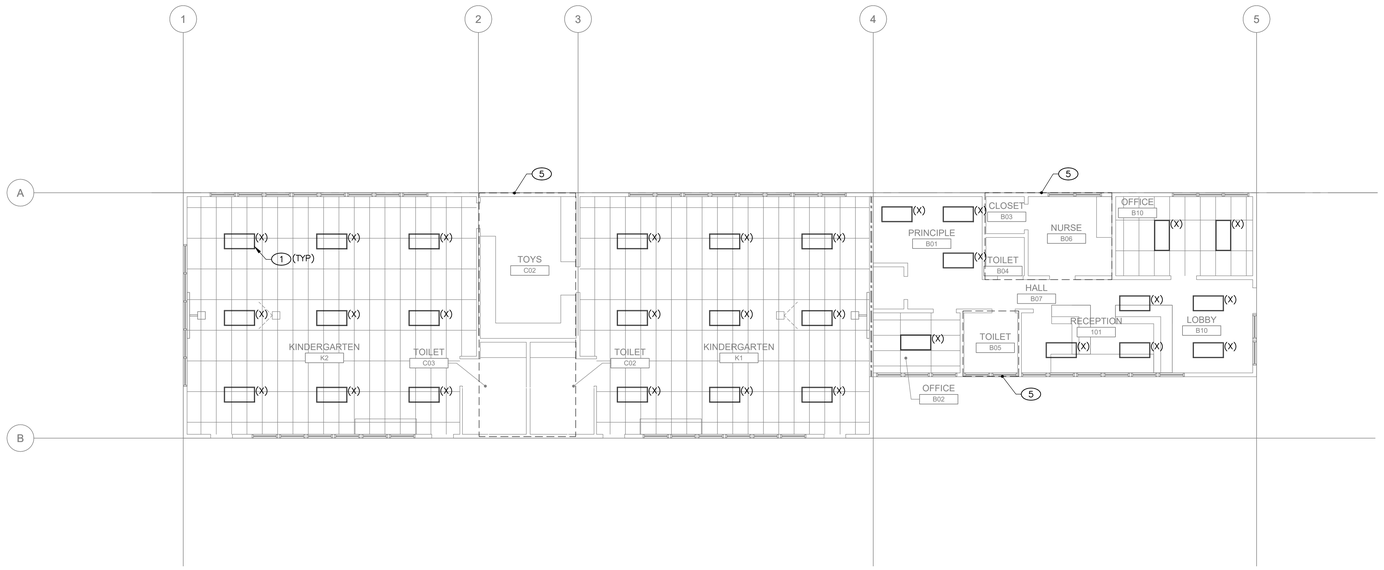
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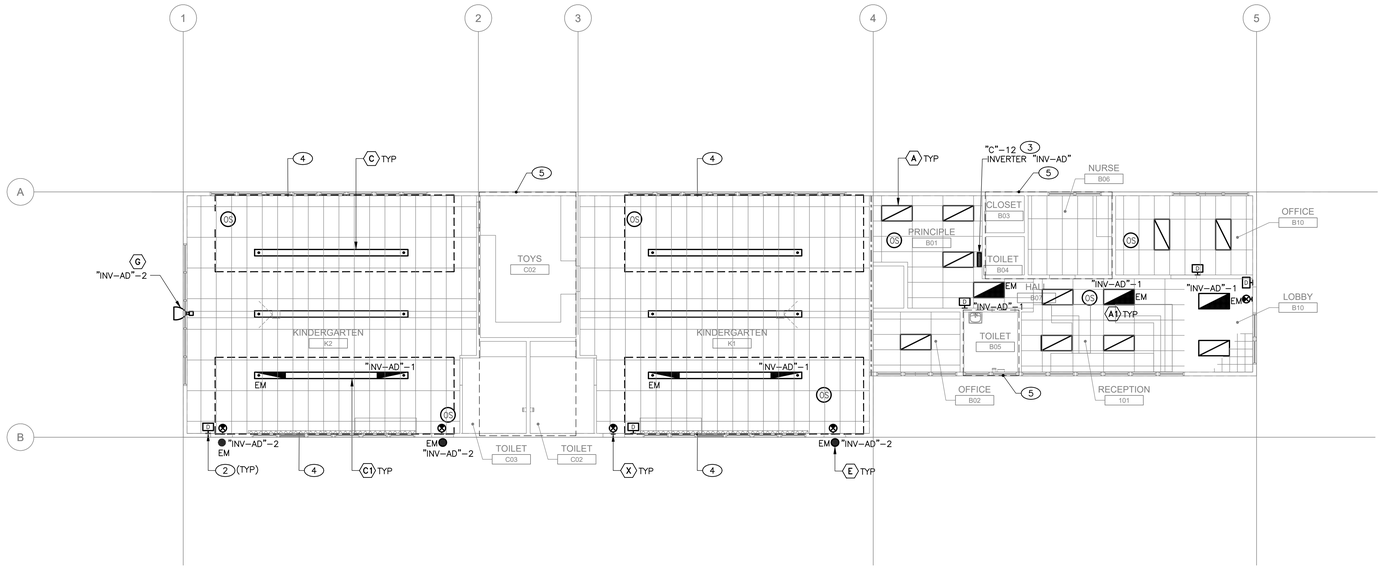
LIGHTING PLANS
BUILDING D

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E2.13
Drawn / Checked	
KT / CD	



DEMO LIGHTING PLAN - ADMIN BUILDING | 1

1/8" = 1'-0"



NEW LIGHTING PLAN - ADMIN BUILDING | 2

1/8" = 1'-0"

KEY NOTES

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROLS FOR INSTALLATION OF NEW FIXTURE/CONTROLS AS SHOWN AT NEW CEILING AREA, UNLESS NOTED OTHERWISE. RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO NEW INVERTER UN–SWITCHED CIRCUIT IN THE AREA.
2. REPLACE EXISTING SWITCHES WITH NEW CONTROL AS SHOWN.
3. PROVIDE 1.6KW MYERS ILLUMINATOR EM EMERGENCY LIGHTING INVERTER SYSTEM, MODEL #1–EM–2–B–A–20–6.
4. PRIMARY SIDELIT LIT DAYLIT ZONE; LIGHT FIXTURE WITH SWITCHING DESIGNATION SHALL BE CONTROLLED BY PRIMARY SIDELIT DAYLIT ZONE PHOTO CONTROL SENSOR INDEPENDENTLY FROM OTHER FIXTURES.
5. LIGHTING IN THIS AREA IS EXISTING TO REMAIN.

GENERAL NOTES

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS/DISCREPANCIES TO ARCHITECT/ENGINEER.

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Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
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MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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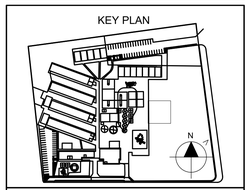
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



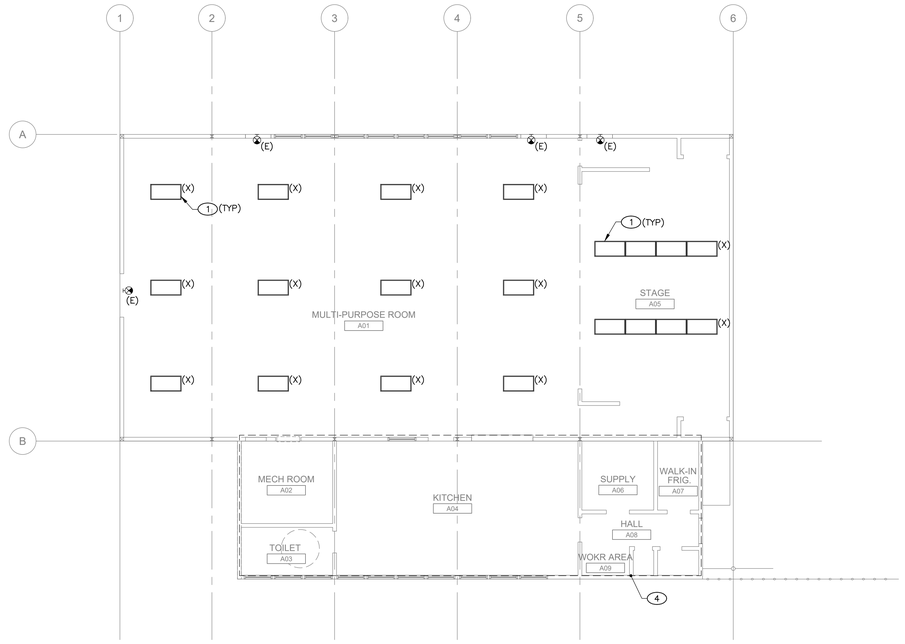
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

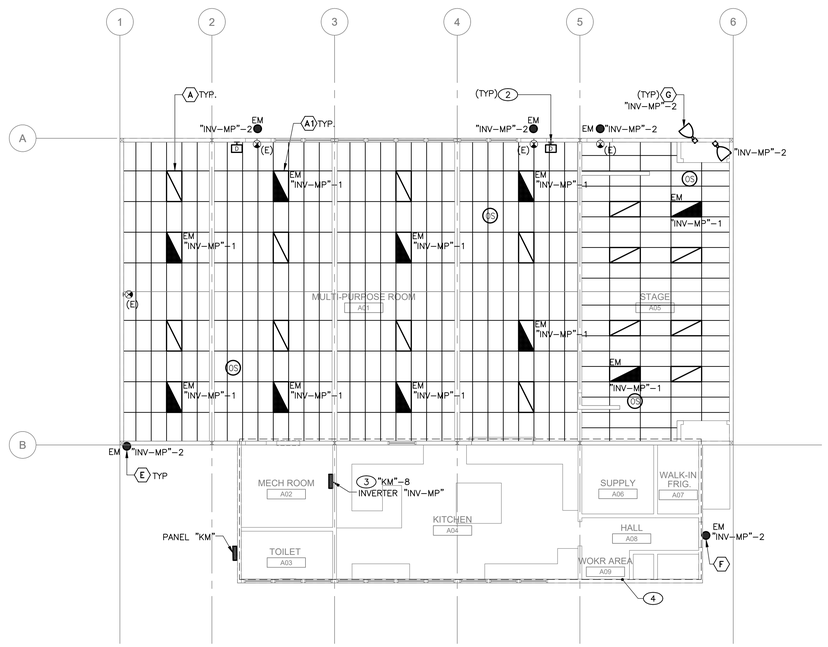
LIGHTING PLANS ADMIN BUILDING

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E2.14
Drawn: KT	Checked: CD



DEMO LIGHTING PLAN - MULTIPURPOSE BUILDING | 1

1/8" = 1'-0"



NEW LIGHTING PLAN - MULTIPURPOSE BUILDING | 2

1/8" = 1'-0"

KEY NOTES

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROLS FOR INSTALLATION OF NEW FIXTURE/CONTROLS AS SHOWN AT NEW CEILING AREA, UNLESS NOTED OTHERWISE. RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO NEW INVERTER UN–SWITCHED CIRCUIT IN THE AREA.
2. REPLACE EXISTING SWITCHES WITH NEW CONTROL AS SHOWN.
3. PROVIDE 1.6KW MYERS ILLUMINATOR EM EMERGENCY LIGHTING INVERTER SYSTEM, MODEL #1–EM–2–B–A–20–6.
4. LIGHTING IN THIS AREA IS EXISTING TO REMAIN.

GENERAL NOTES

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS/DISCREPANCIES TO ARCHITECT/ENGINEER.

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ARCHITECT	ENGINEER
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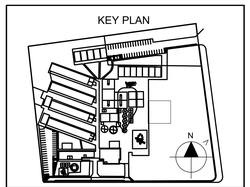
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



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2930 GAY AVE.
SAN JOSE, CA 95127

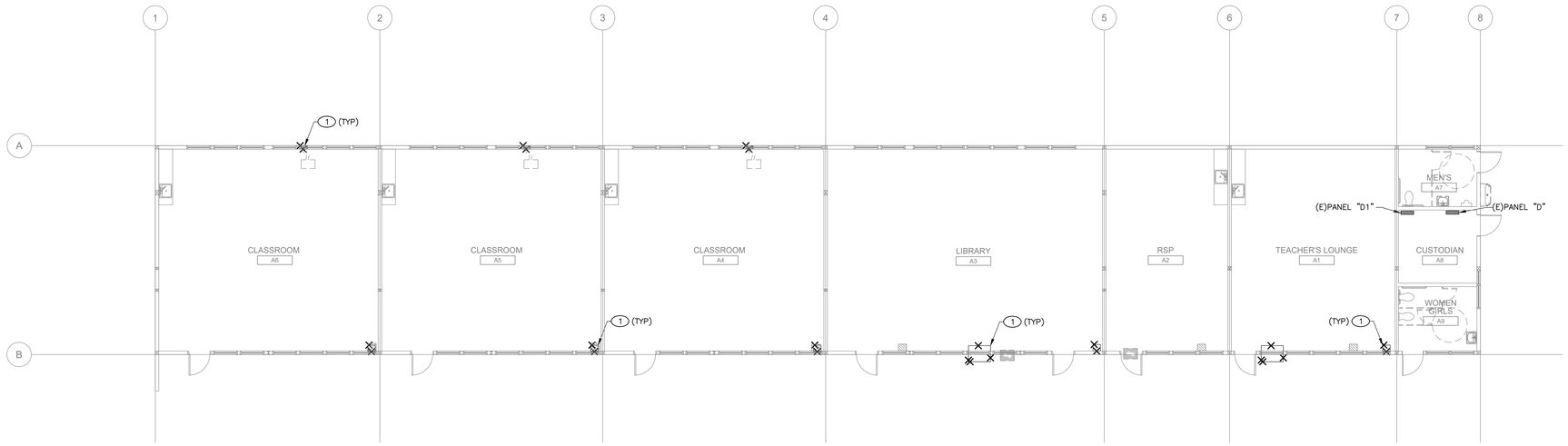
CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

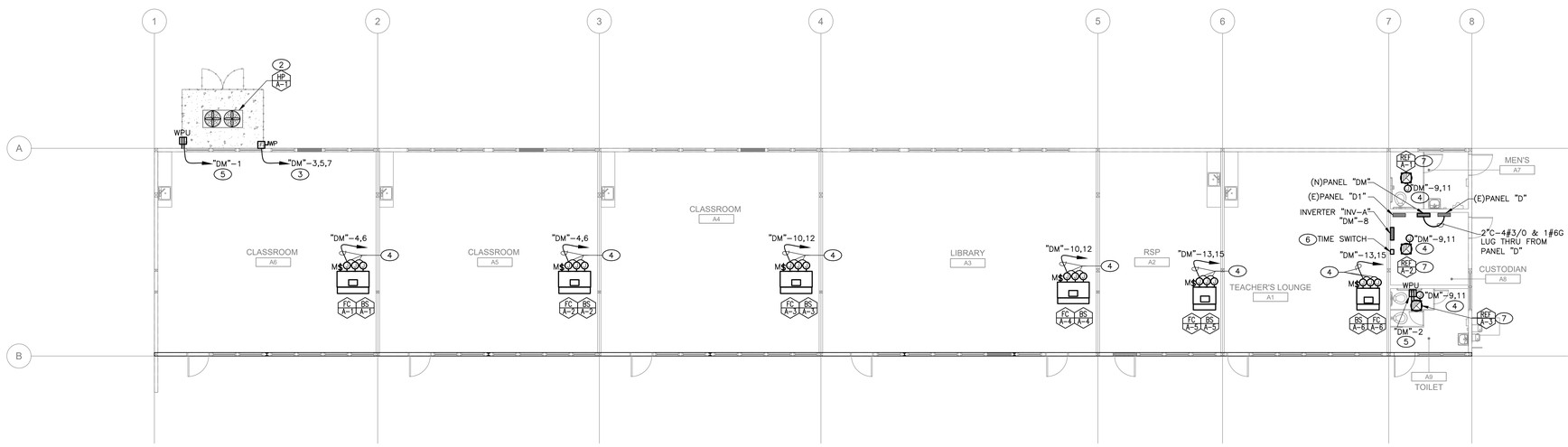
LIGHTING PLANS MULTIPURPOSE BUILDING

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E2.15
Drawn / Checked	
KT / CD	



DEMO ELECTRICAL POWER PLAN - BUILDING A | 1

1/8" = 1'-0"



ELECTRICAL POWER PLAN - BUILDING A | 2

1/8" = 1'-0"

KEY NOTES

1. REMOVE ALL ELECTRICAL DEVICES, APPURTENANCES AND WIRING ASSOCIATED WITH MECHANICAL DEMO EQUIPMENT. REMOVE CONDUCTORS UP TO THE SUPPLY SOURCE. REMOVE ACCESSIBLE CONDUITS AS POSSIBLE. MAINTAIN CIRCUIT CONTINUITY FOR THE DEVICES TO REMAIN. COORDINATE WITH MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
2. HP/A-1: 208V/3PH, 73.7 MCA, 80 MOCP. PROVIDE 80AF/100AS/3P FUSED DISCONNECT SWITCH FOR HP.
3. PROVIDE 1 1/4"C - 3#2 CU + 1#8 CU GND.
4. PROVIDE 3/4"C - 2#12 CU + 1#12 CU GND.
5. 20A RATED WEATHER-RESISTANT GFCI OUTLET WITH WEATHERPROOF WHILE-IN-USE COVER. PROVIDE 3/4" CONDUIT WITH 2#10CU + 1#10CU GND TO A 120 VOLT, 20 AMP, 1 POLE CIRCUIT BREAKER IN THE ELECTRICAL PANEL INDICATED.
6. 365/7 OUTDOOR LIGHTING ASTRONOMICAL 2-CIRCUIT TIME SWITCH WITH HOLIDAY AND EVENT SCHEDULING AND LOCKABLE ENCLOSURE. BASIS OF DESIGN IS "INTERMATIC ET90215CRE.
7. PROVIDE POWER CONNECTION FOR REF UNIT. INTERLOCK THE UNIT CONTROL WITH LIGHTING CONTROL. PROVIDE PROPER RELAY /POWERPACK DEVICES TO MAKE THE CONTROL INTERLOCKING OPERATIONAL. COORDINATE WITH MECHANICAL DRAWING FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING ANY WORK. SHOULD ANY DISCREPANCY EXIST, CONTRACTOR SHALL NOTIFY ENGINEER AND SCHOOL DISTRICT REPRESENTATIVE.

B. ALL NEW CONDUITS IN A SCOPE OF WORK SHALL BE IMC TYPE WITH THREADED CONNECTORS AND FITTINGS.

C. EACH NEW DISCONNECT SWITCH SHALL BE PERMANENTLY MARKED WITH CORRESPONDING CIRCUIT NUMBER SERVING THAT UNIT.

D. IN INSTANCES WHERE MORE THAN 3 CURRENT-CARRYING CONDUCTORS SHARE A COMMON RACEWAY CONDUCTOR AMPACITIES SHALL BE ADJUSTED IN ACCORDANCE WITH CEC 310.15(B)(3)(a) AND 310.15(B)(2)(a).

E. CONTRACTOR SHALL UPDATE ELECTRICAL PANELBOARD DIRECTORIES TO REFLECT ANY CHANGES MADE TO A CIRCUIT ARRANGEMENT.

F. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL EQUIPMENT VENDOR FOR A SUITABLE DISCONNECT SWITCH MOUNTING LOCATION.

G. RECEPTACLES OF 15 AND 20 AMPERES, 125 AND 250 VOLTS INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA-DUTY" PER CEC 406.9(B)(1).

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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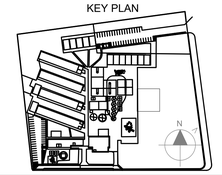
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



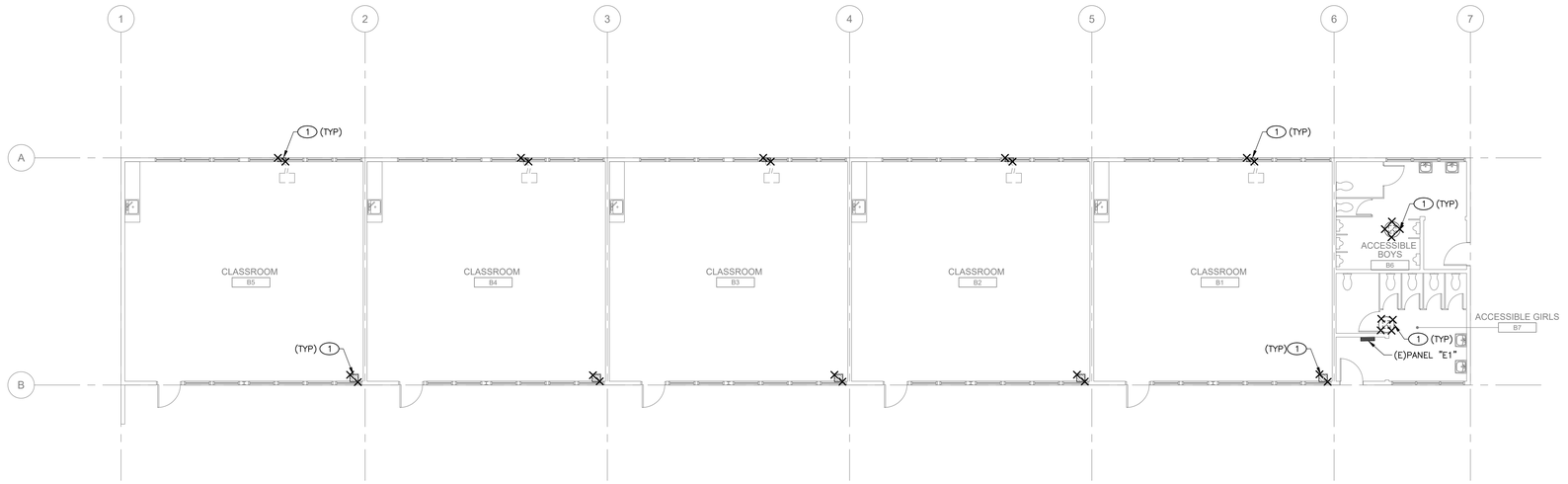
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

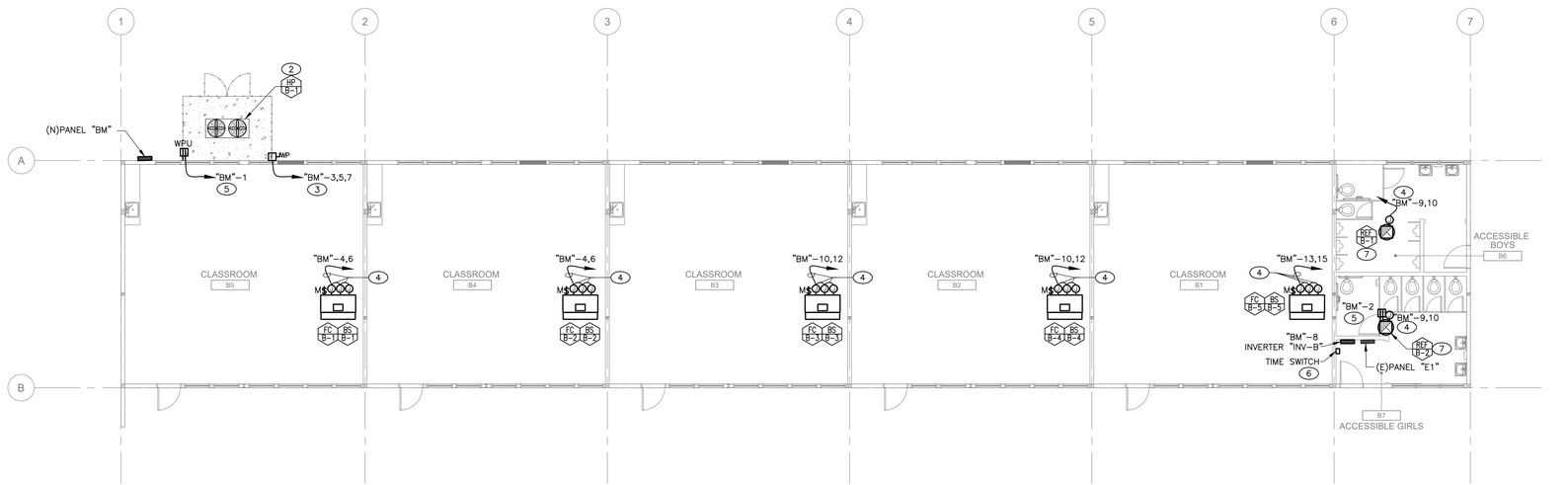
RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

ELECTRICAL POWER PLAN BUILDING A

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E3.10
Drawn / Checked	
KT / CD	



DEMO ELECTRICAL POWER PLAN - BUILDING B | **1** 1/8" = 1'-0"



ELECTRICAL POWER PLAN - BUILDING B | **2** 1/8" = 1'-0"

KEY NOTES

1. REMOVE ALL ELECTRICAL DEVICES, APPURTENANCES AND WIRING ASSOCIATED WITH MECHANICAL DEMO EQUIPMENT. REMOVE CONDUCTORS UP TO THE SUPPLY SOURCE. REMOVE ACCESSIBLE CONDUITS AS POSSIBLE. MAINTAIN CIRCUIT CONTINUITY FOR THE DEVICES TO REMAIN. COORDINATE WITH MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
2. HP/A-1: 208V/3PH, 73.7 MCA, 80 MOCP. PROVIDE 80AF/100AS/3P FUSED DISCONNECT SWITCH FOR HP.
3. PROVIDE 1 1/4"C – 3#2 CU + 1#8 CU GND.
4. PROVIDE 3/4"C – 2#12 CU + 1#12 CU GND.
5. 20A RATED WEATHER-RESISTANT GFCI OUTLET WITH WEATHERPROOF WHILE-IN-USE COVER. PROVIDE 3/4" CONDUIT WITH 2#10CU + 1#10CU GND TO A 120 VOLT, 20 AMP, 1 POLE CIRCUIT BREAKER IN THE ELECTRICAL PANEL INDICATED.
6. 365/7 OUTDOOR LIGHTING ASTRONOMICAL 2-CIRCUIT TIME SWITCH WITH HOLIDAY AND EVENT SCHEDULING AND LOCKABLE ENCLOSURE. BASIS OF DESIGN IS "INTERMATIC ET90215CRE.
7. PROVIDE POWER CONNECTION FOR REF UNIT. INTERLOCK THE UNIT CONTROL WITH LIGHTING CONTROL. PROVIDE PROPER RELAY /POWERPACK DEVICES TO MAKE THE CONTROL INTERLOCKING OPERATIONAL. COORDINATE WITH MECHANICAL DRAWING FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING ANY WORK. SHOULD ANY DISCREPANCY EXIST, CONTRACTOR SHALL NOTIFY ENGINEER AND SCHOOL DISTRICT REPRESENTATIVE.

B. ALL NEW CONDUITS IN A SCOPE OF WORK SHALL BE IMC TYPE WITH THREADED CONNECTORS AND FITTINGS.

C. EACH NEW DISCONNECT SWITCH SHALL BE PERMANENTLY MARKED WITH CORRESPONDING CIRCUIT NUBMER SERVING THAT UNIT.

D. IN INSTANCES WHERE MORE THAN 3 CURRENT-CARRYING CONDUCTORS SHARE A COMMON RACEWAY CONDUCTOR AMPACITIES SHALL BE ADJUSTED IN ACCORDANCE WITH CEC 310.15(B)(3)(a) AND 310.15(B)(2)(a).

E. CONTRACTOR SHALL UPDATE ELECTRICAL PANELBOARD DIRECTORIES TO REFLECT ANY CHANGES MADE TO A CIRCUIT ARRANGEMENT.

F. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL EQUIPMENT VENDOR FOR A SUITABLE DISCONNECT SWITCH MOUNTING LOCATION.

G. RECEPTACLES OF 15 AND 20 AMPERES, 125 AND 250 VOLTS INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA-DUTY" PER CEC 406.9(B)(1).

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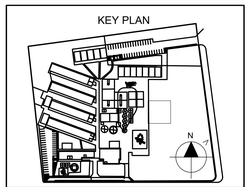
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



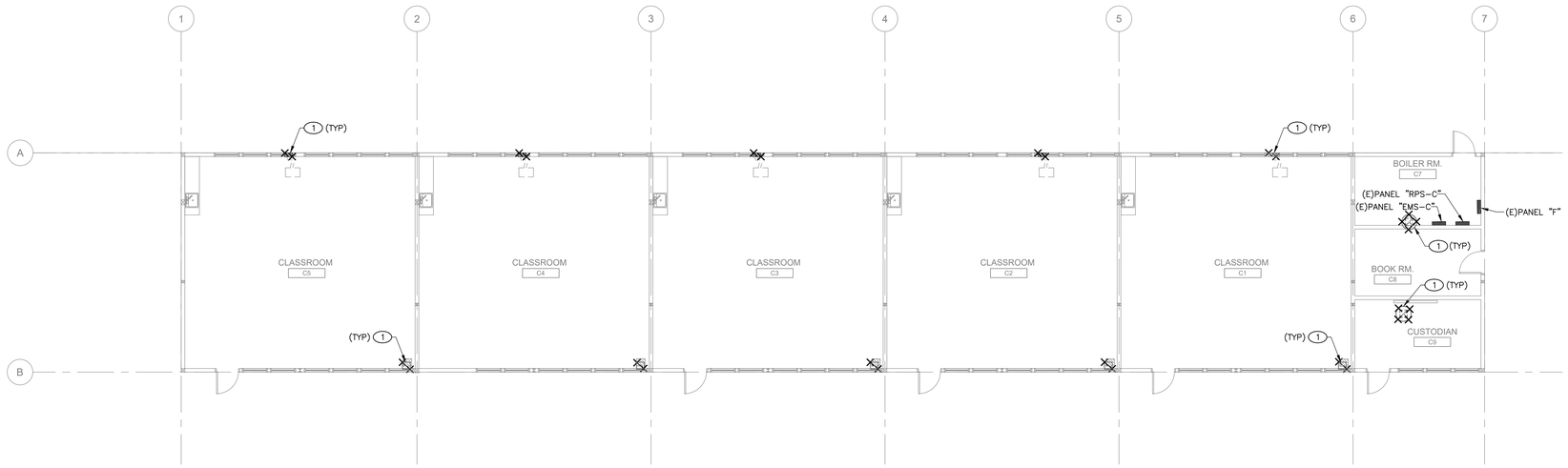
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2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

ELECTRICAL POWER PLAN BUILDING B

Date 04/24/2023	Project Number 22027
Application Number 01-120632	Drawing Number E3.11
Drawn KT	Checked CD



DEMO ELECTRICAL POWER PLAN - BUILDING C | 1

1/8" = 1'-0"

KEY NOTES

1. REMOVE ALL ELECTRICAL DEVICES, APPURTENANCES AND WIRING ASSOCIATED WITH MECHANICAL DEMO EQUIPMENT. REMOVE CONDUCTORS UP TO THE SUPPLY SOURCE. REMOVE ACCESSIBLE CONDUITS AS POSSIBLE. MAINTAIN CIRCUIT CONTINUITY FOR THE DEVICES TO REMAIN. COORDINATE WITH MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
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3. PROVIDE 1 1/4"C – 3#2 CU + 1#8 CU GND.
4. PROVIDE 3/4"C – 2#12 CU + 1#12 CU GND.
5. 20A RATED WEATHER-RESISTANT GFCI OUTLET WITH WEATHERPROOF WHILE-IN-USE COVER. PROVIDE 3/4" CONDUIT WITH 2#10CU + 1#10CU GND TO A 120 VOLT, 20 AMP, 1 POLE CIRCUIT BREAKER IN THE ELECTRICAL PANEL INDICATED.
6. 365/7 OUTDOOR LIGHTING ASTRONOMICAL 2-CIRCUIT TIME SWITCH WITH HOLIDAY AND EVENT SCHEDULING AND LOCKABLE ENCLOSURE. BASIS OF DESIGN IS "INTERMATIC ET90215CRE.
7. PROVIDE POWER CONNECTION FOR REF UNIT. INTERLOCK THE UNIT CONTROL WITH LIGHTING CONTROL. PROVIDE PROPER RELAY /POWERPACK DEVICES TO MAKE THE CONTROL INTERLOCKING OPERATIONAL. COORDINATE WITH MECHANICAL DRAWING FOR ADDITIONAL INFORMATION.

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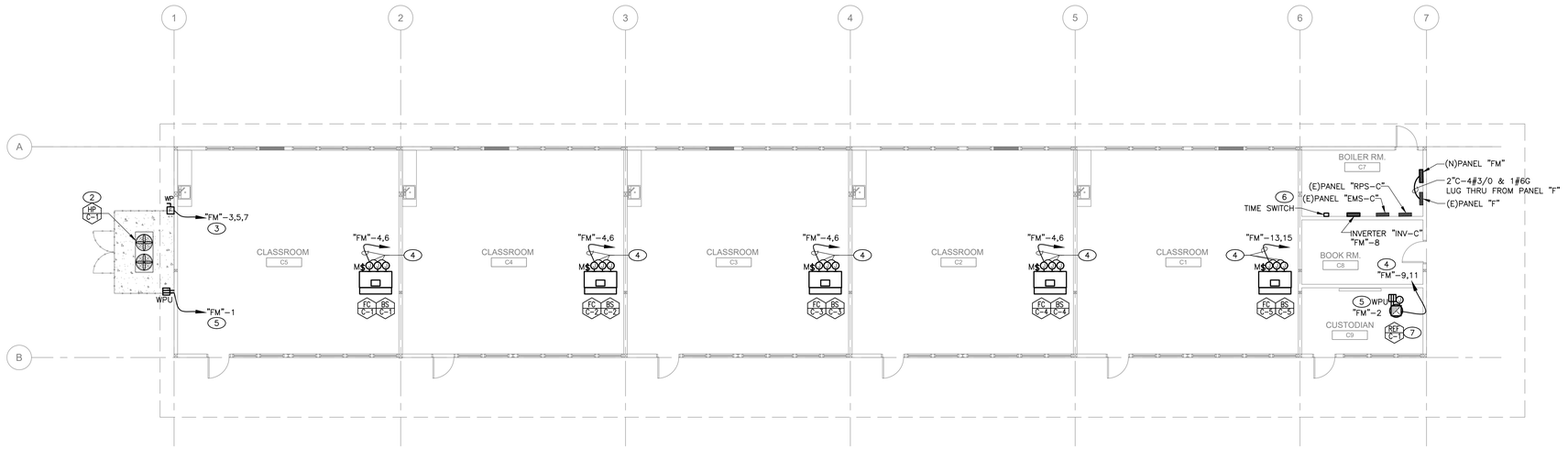
C. EACH NEW DISCONNECT SWITCH SHALL BE PERMANENTLY MARKED WITH CORRESPONDING CIRCUIT NUMBER SERVING THAT UNIT.

D. IN INSTANCES WHERE MORE THAN 3 CURRENT-CARRYING CONDUCTORS SHARE A COMMON RACEWAY CONDUCTOR AMPACITIES SHALL BE ADJUSTED IN ACCORDANCE WITH CEC 310.15(B)(3)(a) AND 310.15(B)(2)(a).

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G. RECEPTACLES OF 15 AND 20 AMPERES, 125 AND 250 VOLTS INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA-DUTY" PER CEC 406.9(B)(1).



ELECTRICAL POWER PLAN - BUILDING C | 2

1/8" = 1'-0"

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DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

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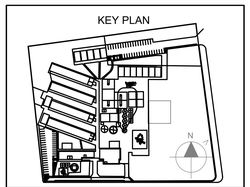
REVISION HISTORY

NO.	REMARKS	DATE

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	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



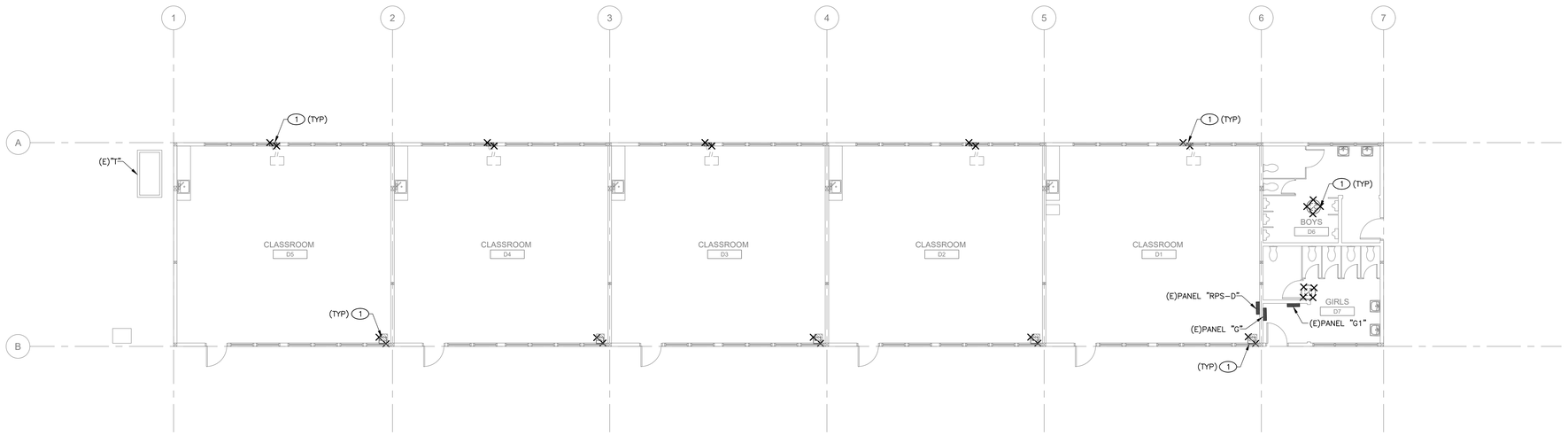
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

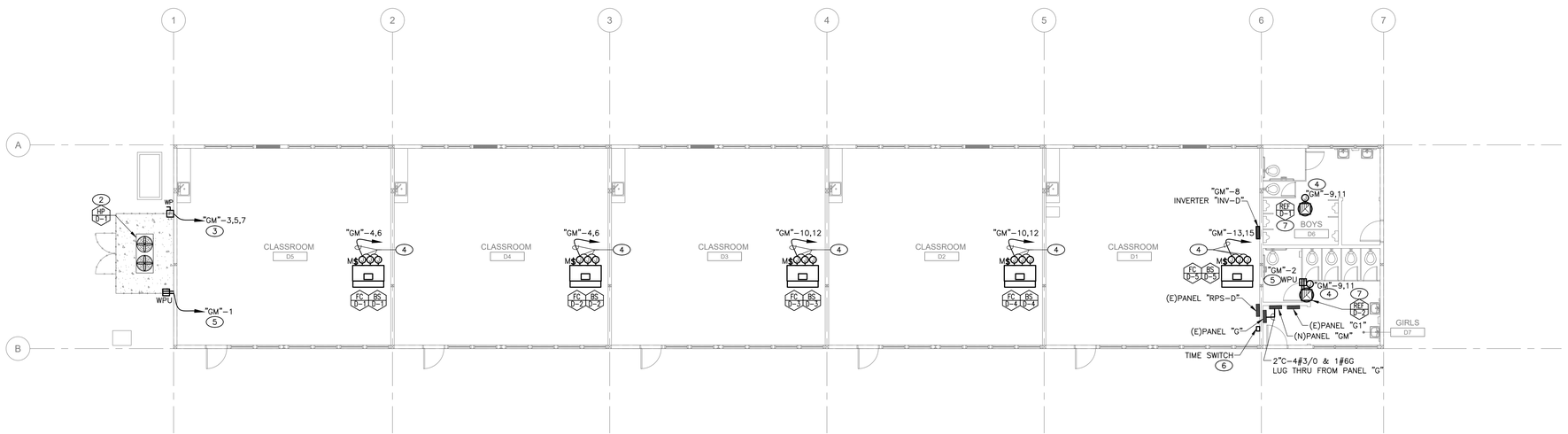
ELECTRICAL POWER PLAN BUILDING C

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E3.12
Drawn: KT	Checked: CD



DEMO ELECTRICAL POWER PLAN - BUILDING D | 1

1/8" = 1'-0"



ELECTRICAL POWER PLAN - BUILDING D | 2

1/8" = 1'-0"

KEY NOTES

1. REMOVE ALL ELECTRICAL DEVICES, APPURTENANCES AND WIRING ASSOCIATED WITH MECHANICAL DEMO EQUIPMENT. REMOVE CONDUCTORS UP TO THE SUPPLY SOURCE. REMOVE ACCESSIBLE CONDUITS AS POSSIBLE. MAINTAIN CIRCUIT CONTINUITY FOR THE DEVICES TO REMAIN. COORDINATE WITH MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
2. HP/A-1: 208V/3PH, 73.7 MCA, 80 MOCP. PROVIDE 80AF/100AS/3P FUSED DISCONNECT SWITCH FOR HP.
3. PROVIDE 1 1/4"C – 3#2 CU + 1#8 CU GND.
4. PROVIDE 3/4"C – 2#12 CU + 1#12 CU GND.
5. 20A RATED WEATHER-RESISTANT GFCI OUTLET WITH WEATHERPROOF WHILE-IN-USE COVER. PROVIDE 3/4" CONDUIT WITH 2#10CU + 1#10CU GND TO A 120 VOLT, 20 AMP, 1 POLE CIRCUIT BREAKER IN THE ELECTRICAL PANEL INDICATED.
6. 365/7 OUTDOOR LIGHTING ASTRONOMICAL 2-CIRCUIT TIME SWITCH WITH HOLIDAY AND EVENT SCHEDULING AND LOCKABLE ENCLOSURE. BASIS OF DESIGN IS "INTERMATIC ET90215CRE.
7. PROVIDE POWER CONNECTION FOR REF UNIT. INTERLOCK THE UNIT CONTROL WITH LIGHTING CONTROL. PROVIDE PROPER RELAY /POWERPACK DEVICES TO MAKE THE CONTROL INTERLOCKING OPERATIONAL. COORDINATE WITH MECHANICAL DRAWING FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING ANY WORK. SHOULD ANY DISCREPANCY EXIST, CONTRACTOR SHALL NOTIFY ENGINEER AND SCHOOL DISTRICT REPRESENTATIVE.

B. ALL NEW CONDUITS IN A SCOPE OF WORK SHALL BE IMC TYPE WITH THREADED CONNECTORS AND FITTINGS.

C. EACH NEW DISCONNECT SWITCH SHALL BE PERMANENTLY MARKED WITH CORRESPONDING CIRCUIT NUMBER SERVING THAT UNIT.

D. IN INSTANCES WHERE MORE THAN 3 CURRENT-CARRYING CONDUCTORS SHARE A COMMON RACEWAY CONDUCTOR AMPACITIES SHALL BE ADJUSTED IN ACCORDANCE WITH CEC 310.15(B)(3)(a) AND 310.15(B)(2)(a).

E. CONTRACTOR SHALL UPDATE ELECTRICAL PANELBOARD DIRECTORIES TO REFLECT ANY CHANGES MADE TO A CIRCUIT ARRANGEMENT.

F. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL EQUIPMENT VENDOR FOR A SUITABLE DISCONNECT SWITCH MOUNTING LOCATION.

G. RECEPTACLES OF 15 AND 20 AMPERES, 125 AND 250 VOLTS INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA-DUTY" PER CEC 406.9(B)(1).

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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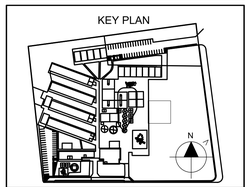
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



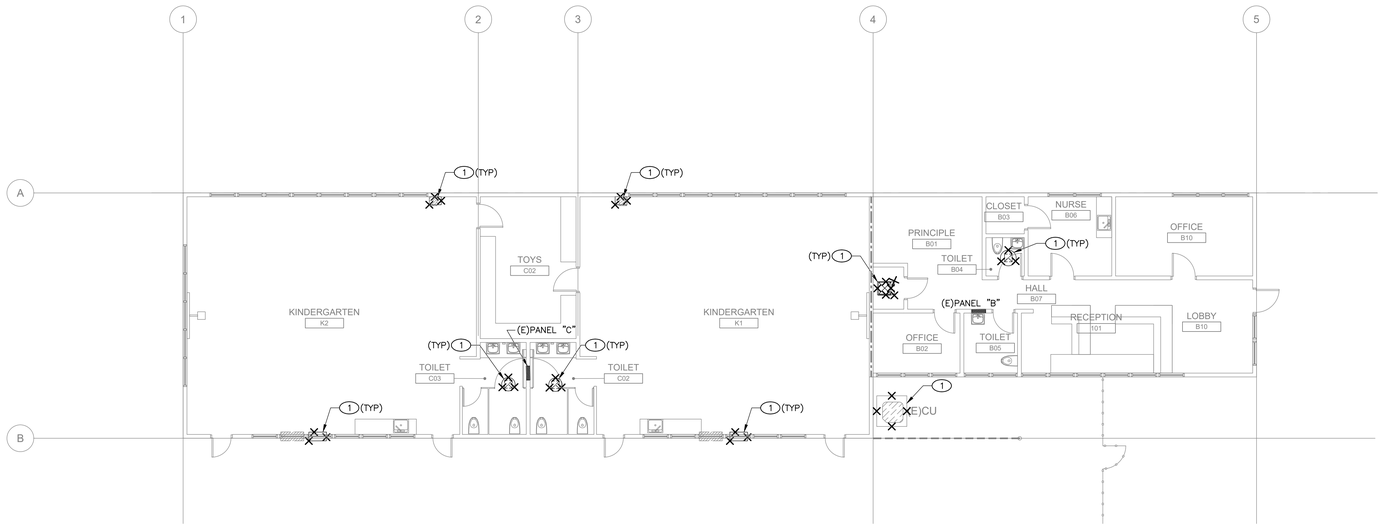
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
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ELECTRICAL POWER PLAN BUILDING D

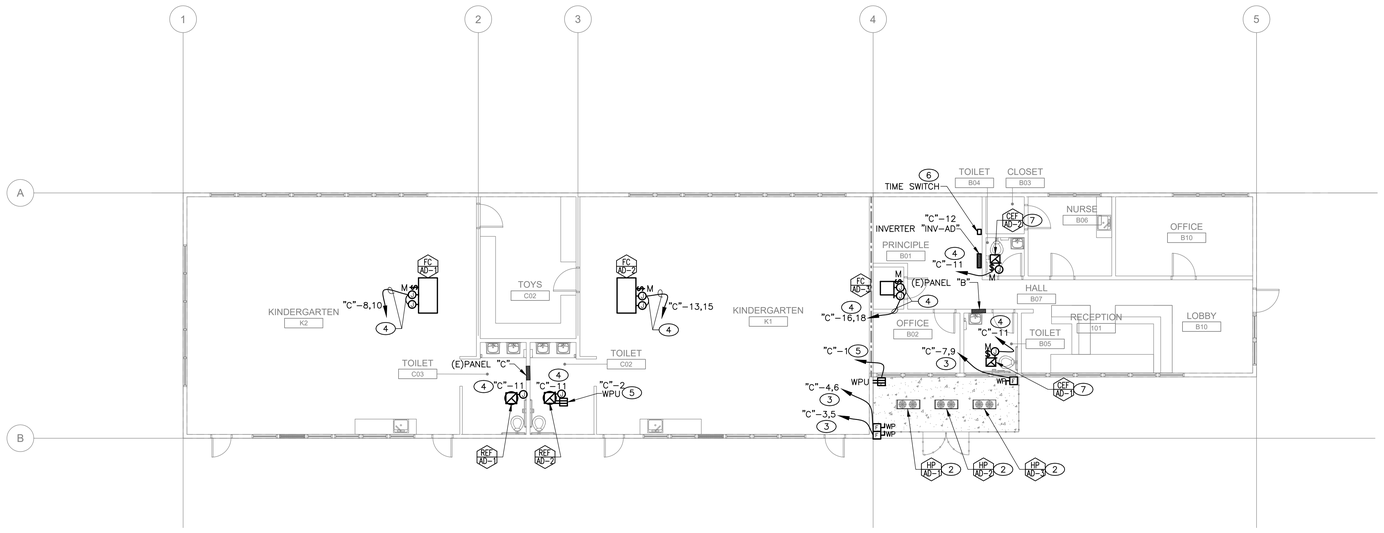
Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E3.13
Drawn / Checked	
KT / CD	



DEMO ELECTRICAL POWER PLAN - ADMIN BUILDING

1

1/8" = 1'-0"



ELECTRICAL POWER PLAN - ADMIN BUILDING

2

1/8" = 1'-0"

KEY NOTES

1. REMOVE ALL ELECTRICAL DEVICES, APPURTENANCES AND WIRING ASSOCIATED WITH MECHANICAL DEMO EQUIPMENT. REMOVE CONDUCTORS UP TO THE SUPPLY SOURCE. REMOVE ACCESSIBLE CONDUITS AS POSSIBLE. MAINTAIN CIRCUIT CONTINUITY FOR THE DEVICES TO REMAIN. COORDINATE WITH MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
2. HP/A-1,2,3: 208V/1PH, 29.1 MCA, 35 MOCP. PROVIDE 35AF/60AS/2P FUSED DISCONNECT SWITCH FOR HP.
3. PROVIDE 1"C – 2#8 CU + 1#10 CU GND.
4. PROVIDE 3/4"C – 2#12 CU + 1#12 CU GND.
5. 20A RATED WEATHER-RESISTANT GFCI OUTLET WITH WEATHERPROOF WHILE-IN-USE COVER. PROVIDE 3/4" CONDUIT WITH 2#10CU + 1#10CU GND TO A 120 VOLT, 20 AMP, 1 POLE CIRCUIT BREAKER IN THE ELECTRICAL PANEL INDICATED.
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7. PROVIDE POWER CONNECTION FOR CEF UNIT. INTERLOCK THE UNIT CONTROL WITH LIGHTING CONTROL. PROVIDE PROPER RELAY /POWERPACK DEVICES TO MAKE THE CONTROL INTERLOCKING OPERATIONAL. COORDINATE WITH MECHANICAL DRAWING FOR ADDITIONAL INFORMATION.

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Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA (wet signature required)	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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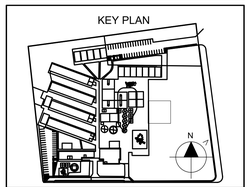
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
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○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



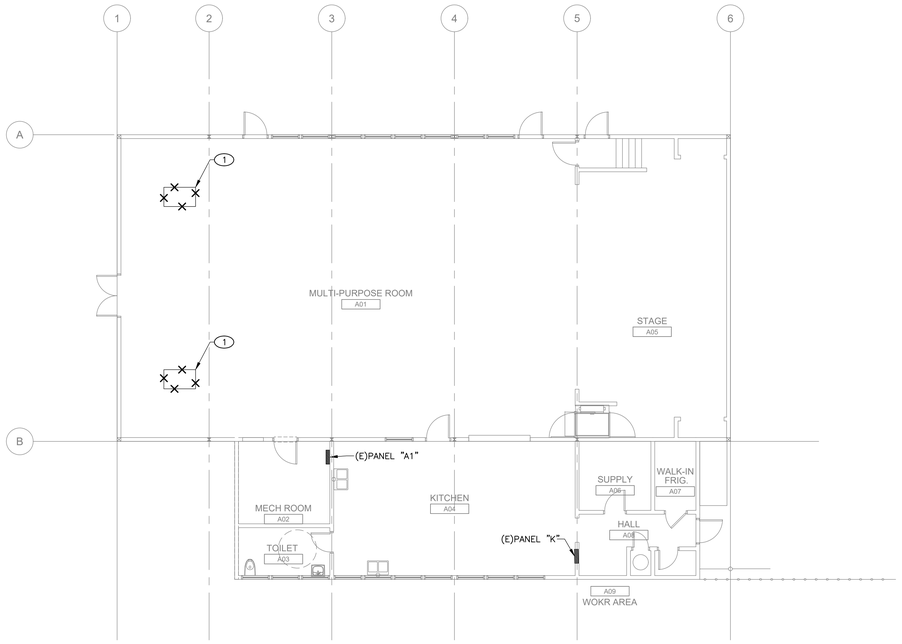
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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SAN JOSE, CA 95127

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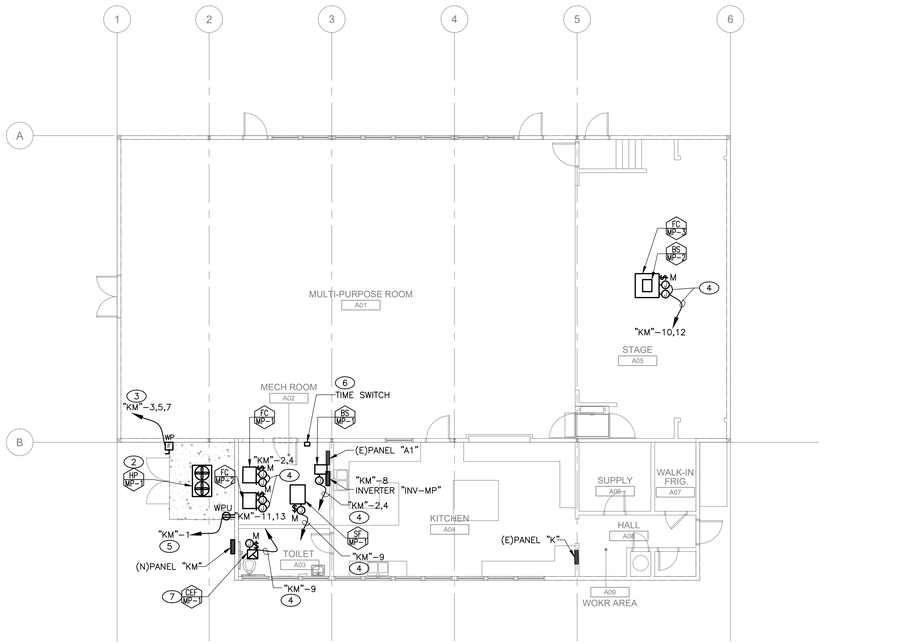
ELECTRICAL POWER PLAN ADMIN BUILDING

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E3.14
Drawn / Checked	
KT / CD	



DEMO ELECTRICAL POWER PLAN - MULTIPURPOSE BUILDING | 1

1/8" = 1'-0"



ELECTRICAL POWER PLAN - MULTIPURPOSE BUILDING | 1

1/8" = 1'-0"

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2. HP/A-1: 208V/3PH, 47.8 MCA, 50 MOCP. PROVIDE 50AF/60AS/3P FUSED DISCONNECT SWITCH FOR HP.
3. PROVIDE 1"C - 3#6 CU + 1#10 CU GND.
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STUDIO W ARCHITECTS

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Job #: 22-2173

ARCHITECT	ENGINEER
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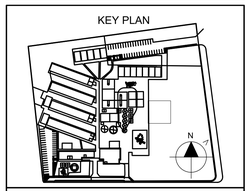
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
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SAN JOSE, CA 95127

ELECTRICAL POWER PLAN MULTIPURPOSE BUILDING

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E3.15
Drawn / Checked	
KT / CD	

INVERTER-C "INV-C"

120 Volt, 1 Phase, 2 Wire
25 Amp BUS CU.
30 Amp MCB
Amp MLO

FEED FROM Panel-FM
10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	LOAD (WATTS)
1	20/1	BUILDIN-C EXTERIOR LIGHTS	275
2	20/1	BUILDIN-C INTERIOR LIGHTS	100
3	20/1	SPARE	
4	20/1	SPARE	
5	20/1	SPARE	
6	20/1	SPARE	
		LOAD TOTAL	375

DEMAND LOADS		
LIGHTING / CONTINUOUS L	469	Watts
RECEPTACLES / OTHER x		Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	469	Watts
TOTAL DEMAND AMPS	4	AMPS

INVERTER-D "INV-D"

120 Volt, 1 Phase, 2 Wire
25 Amp BUS CU.
30 Amp MCB
Amp MLO

FEED FROM Panel-GM
10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	LOAD (WATTS)
1	20/1	BUILDIN-D EXTERIOR LIGHTS	275
2	20/1	BUILDIN-D INTERIOR LIGHTS	80
3	20/1	SPARE	
4	20/1	SPARE	
5	20/1	SPARE	
6	20/1	SPARE	
		LOAD TOTAL	355

DEMAND LOADS		
LIGHTING / CONTINUOUS L	444	Watts
RECEPTACLES / OTHER x		Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	444	Watts
TOTAL DEMAND AMPS	4	AMPS

INVERTER-AD "INV-AD"

120 Volt, 1 Phase, 2 Wire
25 Amp BUS CU.
30 Amp MCB
Amp MLO

FEED FROM Panel-C
10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	LOAD (WATTS)
1	20/1	BUILDIN-AD EXTERIOR LIGHTS	192
2	20/1	BUILDIN-AD INTERIOR LIGHTS	140
3	20/1	SPARE	
4	20/1	SPARE	
5	20/1	SPARE	
6	20/1	SPARE	
		LOAD TOTAL	332

DEMAND LOADS		
LIGHTING / CONTINUOUS L	415	Watts
RECEPTACLES / OTHER x		Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	415	Watts
TOTAL DEMAND AMPS	3	AMPS

INVERTER-MP "INV-MP"

120 Volt, 1 Phase, 2 Wire
25 Amp BUS CU.
30 Amp MCB
Amp MLO

FEED FROM Panel-KM
10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	LOAD (WATTS)
1	20/1	BUILDIN-MP EXTERIOR LIGHTS	410
2	20/1	BUILDIN-MP INTERIOR LIGHTS	484
3	20/1	SPARE	
4	20/1	SPARE	
5	20/1	SPARE	
6	20/1	SPARE	
		LOAD TOTAL	894

DEMAND LOADS		
LIGHTING / CONTINUOUS L	1118	Watts
RECEPTACLES / OTHER x		Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	1118	Watts
TOTAL DEMAND AMPS	9	AMPS

EXISTING ELECTRICAL SERVICE LOAD CALCULATION

EXISTING MAXIMUM PEAK DEMAND LOAD FOR THE MONTH OF 10/22/2022			
(SOURCE: PG&E PREVIOUS 12 MONTHS DATA)			**63.4 KVA**
PLUS 25% OF EXISTING CONNECTED LOAD			**15.8 KVA**
TOTAL EXISTING CONNECTED LOAD		**=**	**79.2 KVA**
REMOVED EXISTING LOAD			
-	**0.0**		**KVA**
-	**0.00**		**KVA**
TOTAL LOAD REMOVED	**=** **0.0**		**KVA**
TOTAL EXISTING LOAD MINUS REMOVED LOAD		**=**	**79.2 KVA**
ADD NEW LOAD			
HVAC LOAD			**187.3 KVA**
LIGHTING			**12.0 KVA**
25% OF LARGEST NEW MOTOR=	**0.0 KVA @ 25% =**		**0.0 KVA**
TOTAL ADDED LOAD		**=**	**199.3 KVA**
EXISTING AND ADDED TOTAL SERVICE LOAD		**=**	**278.5 kva**
278.5 KVA @ 120/208 VOLT , 3 PHASE = 774 AMPERES			

THEREFORE: EXISTING MAIN 1600 AMP SERVICE HAS THE CAPACITY FOR THE NEW ADDED LOAD.

(N)PANEL "GM"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
150 Amp MCB
225 Amp MLO

FEED FROM Panel-G
10000 KAIC Rating
SURFACE Mounted
NEMA-1 Type

			PHASE SUMMARY (WATTS)								
CKT.	BKR	DESCRIPTION	A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	RECPT	180				180			RECPT	20/1	2
3	80/3	HP-D-1		8,850				582		FC D1 /BS-D1 AND FC D2 /BS-D2	20/2	4
5	-	-			8,850				582	-	-	6
7	-	-	8,850				2,000			INVERTER "INV-D"	25/1	8
9	20/2	REF D-1		80				582		FC D3 /BS-D3 AND FC D4 /BS-D4	20/2	10
11	-	-			80				582	-		12
13	20/2	FC D5 /BS-D5	291							SPARE	20/1	14
15	-	-		291						SPARE	20/1	16
17	20/1	SPARE								SPARE	20/1	18
19	20/1	SPARE								SPARE	20/1	20
21	20/1	SPARE								SPARE	20/1	22
23	20/1	SPARE								SPACE	PFB	24
25	PFB	SPACE								SPACE	PFB	26
27	PFB	SPACE								SPACE	PFB	28
29	PFB	SPACE								SPACE	PFB	30
31	PFB	SPACE								SPACE	PFB	32
33	PFB	SPACE								SPACE	PFB	34
35	PFB	SPACE								SPACE	PFB	36
37	PFB	SPACE								SPACE	PFB	38
39	PFB	SPACE								SPACE	PFB	40
41	PFB	SPACE								SPACE	PFB	42

PHASE TOTALS		
A	B	C
11,501	10,386	10,095

PANEL AND CIRCUIT BREAKER NOTES:
[1] PROVIDE NEW CIRCUIT BREAKER IN SPACE FOR NEW CIRCUIT. MATCH TYPE AND AIC RATING OF NEW CIRCUIT BREAKER WITH EXISTNG CIRCUIT BREAKER.

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%	2,500	Watts
RECEPTACLES / OTHER x 100%	29,982	Watts
LARGEST MOTOR x 25%	2,213	Watts
TOTAL DEMAND LOADS	34,695	Watts
TOTAL DEMAND AMPS	96	AMPS

(E)PANEL "C"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
125 Amp MCB
Amp MLO

NORTH-EAST OF BLDG-MP
10000 KAIC Rating
SURFACE Mounted
NEMA-1 Type

			PHASE SUMMARY (WATTS)								
CKT.	BKR	DESCRIPTION	A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
1	[1]N]20/1	(N) RECPT	180							(N) RECPT	[1]N]20/1	2
3	[1]N]35/2	(N) HP/AD-1		2,421				2,421		(N) HP/AD-2	[1]N]20/2	4
5	-	-			2,421				2,421	-	-	6
7	[1]N]35/2	(N) HP/AD-3	2,421				550			(N) FC AD-1	[1]N]20/2	8
9	-	-		2,421				550		-	-	10
11	[1]N]20/1	(N) CEF AND REF			320				2,000	(N) INVERTER "INV-AD"	[1]N]25/1	12
13	[1]N]20/2	(N) FC AD-2	550							-		14
15	-	-		550				550		(N) FC AD-3	[1]N]20/2	16
17	20/1	SPARE							550	-	-	18
19	20/1	SPARE								SPARE	20/1	20
21	20/1	SPARE								SPARE	20/1	22
23	20/1	SPARE								SPACE	PFB	24
25	PFB	SPACE								SPACE	PFB	26
27	PFB	SPACE								SPACE	PFB	28
29	PFB	SPACE								SPACE	PFB	30
31	PFB	SPACE								SPACE	PFB	32
33	PFB	SPACE								SPACE	PFB	34
35	PFB	SPACE								SPACE	PFB	36
37	PFB	SPACE								SPACE	PFB	38
39	PFB	SPACE								SPACE	PFB	40
41	PFB	SPACE								SPACE	PFB	42

PHASE TOTALS		
A	B	C
3,701	8,913	7,712

PANEL AND CIRCUIT BREAKER NOTES:
[1] PROVIDE NEW CIRCUIT BREAKER IN SPACE FOR NEW CIRCUIT. MATCH TYPE AND AIC RATING OF NEW CIRCUIT BREAKER WITH EXISTNG CIRCUIT BREAKER.

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%	2,500	Watts
RECEPTACLES / OTHER x 100%	18,326	Watts
LARGEST MOTOR x 25%	605	Watts
TOTAL DEMAND LOADS	21,431	Watts
TOTAL DEMAND AMPS	60	AMPS

(N)PANEL "KM"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

FEED FROM MSB
10000 KAIC Rating
SURFACE Mounted
NEMA-1 Type

			PHASE SUMMARY (WATTS)								
CKT.	BKR	DESCRIPTION	A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	RECPT	180				724			FC MP-1 AND BS MP-1	20/2	2
3	35/3	HP-MP-1		5,740				724		-	-	4
5	-	-			5,740					SPARE	20/1	6
7	-	-	5,740				2,000			INVERTER "INV-B"	25/1	8
9	20/1	CEF AND SF		1,000				67		FC MP-3 AND BS MP-2	20/2	10
11	20/2	FC MP-2			716				67	-		12
13		-	716							SPARE	20/1	14
15	20/1	SPARE								SPARE	20/1	16
17	20/1	SPARE								SPARE	20/1	18
19	20/1	SPARE								SPARE	20/1	20
21	20/1	SPARE								SPARE	20/1	22
23	20/1	SPARE								SPACE	PFB	24
25	PFB	SPACE								SPACE	PFB	26
27	PFB	SPACE								SPACE	PFB	28
29	PFB	SPACE								SPACE	PFB	30
31	PFB	SPACE								SPACE	PFB	32
33	PFB	SPACE								SPACE	PFB	34
35	PFB	SPACE								SPACE	PFB	36
37	PFB	SPACE								SPACE	PFB	38
39	PFB	SPACE								SPACE	PFB	40
41	PFB	SPACE								SPACE	PFB	42

PHASE TOTALS		
A	B	C
9,360	7,531	6,523

PANEL AND CIRCUIT BREAKER NOTES:
[1] PROVIDE NEW CIRCUIT BREAKER IN SPACE FOR NEW CIRCUIT. MATCH TYPE AND AIC RATING OF NEW CIRCUIT BREAKER WITH EXISTNG CIRCUIT BREAKER.

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%	2,500	Watts
RECEPTACLES / OTHER x 100%	21,414	Watts
LARGEST MOTOR x 25%	1,435	Watts
TOTAL DEMAND LOADS	25,349	Watts
TOTAL DEMAND AMPS	70	AMPS

INVERTER-B "INV-B"

120 Volt, 1 Phase, 2 Wire
25 Amp BUS CU.
30 Amp MCB
Amp MLO

FEED FROM ANEL MB
10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	LOAD (WATTS)
1	20/1	BUILDIN-B EXTERIOR LIGHTS	275
2	20/1	BUILDIN-B INTERIOR LIGHTS	100
3	20/1	SPARE	
4	20/1	SPARE	
5	20/1	SPARE	
6	20/1	SPARE	
		LOAD TOTAL	375

DEMAND LOADS		
LIGHTING / CONTINUOUS L	469	Watts
RECEPTACLES / OTHER x		Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	469	Watts
TOTAL DEMAND AMPS	4	AMPS

(N)PANEL "DM"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
150 Amp MCB
Amp MLO

FEED FROM Panel-D
10000 KAIC Rating
SURFACE Mounted
NEMA-1 Type

			PHASE SUMMARY (WATTS)								
CKT.	BKR	DESCRIPTION	A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	RECPT	180				180			RECPT	20/1	2
3	80/3	HP-A-1		8,850				582		FC A1 /BS-A1 AND FC A2 /BS-A2	20/2	4
5	-	-			8,850				582	-		6
7	-	-	8,850				2,000			INVERTER "INV-A"	25/1	8
9	20/2	REF A-1 AND REF A-3		120				582		FC A3 /BS-A3 AND FC A4 /BS-A4	20/2	10
11	-	-			120				582	-		12
13	20/2	FC A5 /BS-A5 AND FC A6 /BS-A6	317							SPARE	20/1	14
15	-	-		317						SPARE	20/1	16
17	20/1	SPARE								SPARE	20/1	18
19	20/1	SPARE								SPARE	20/1	20
21	20/1	SPARE								SPARE	20/1	22
23	20/1	SPARE								SPACE	PFB	24
25	PFB	SPACE								SPACE	PFB	26
27	PFB	SPACE								SPACE	PFB	28
29	PFB	SPACE								SPACE	PFB	30
31	PFB	SPACE								SPACE	PFB	32
33	PFB	SPACE								SPACE	PFB	34
35	PFB	SPACE								SPACE	PFB	36
37	PFB	SPACE								SPACE	PFB	38
39	PFB	SPACE								SPACE	PFB	40
41	PFB	SPACE								SPACE	PFB	42

PHASE TOTALS		
A	B	C
11,527	10,452	10,135

PANEL AND CIRCUIT BREAKER NOTES:
[1] PROVIDE NEW CIRCUIT BREAKER IN SPACE FOR NEW CIRCUIT. MATCH TYPE AND AIC RATING OF NEW CIRCUIT BREAKER WITH EXISTNG CIRCUIT BREAKER.

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%	2,500	Watts
RECEPTACLES / OTHER x 100%	30,114	Watts
LARGEST MOTOR x 25%	2,213	Watts
TOTAL DEMAND LOADS	34,826	Watts
TOTAL DEMAND AMPS	97	AMPS

(N)PANEL "BM"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

FEED FROM WEST OF BLDG-D
10000 KAIC Rating
SURFACE Mounted
NEMA-1 Type

			PHASE SUMMARY (WATTS)								
CKT.	BKR	DESCRIPTION	A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	RECPT	180				180			RECPT	20/1	2
3	80/3	HP-B-1		8,850				582		FC B1 /BS-B1 AND FC B2 /BS-B2	20/2	4
5	-	-			8,850				582	-		6
7	-	-	8,850				2,000			INVERTER "INV-B"	25/1	8
9	20/2	REF B-1 AND REF B-2		80				582		FC B3 /BS-B3 AND FC B4 /BS-B4	20/2	10
11	-	-			80				582	-		12
13	20/2	FC B5 /BS-B5	291							SPARE	20/1	14
15	-	-		291						SPARE	20/1	16
17	20/1	SPARE								SPARE	20/1	18
19	20/1	SPARE								SPARE	20/1	20
21	20/1	SPARE								SPACE	PFB	24
23	20/1	SPARE								SPACE	PFB	24
25	PFB	SPACE								SPACE	PFB	26
27	PFB	SPACE								SPACE	PFB	28
29	PFB	SPACE								SPACE	PFB	30
31	PFB	SPACE								SPACE	PFB	32
33	PFB	SPACE								SPACE	PFB	34
35	PFB	SPACE								SPACE	PFB	36
37	PFB	SPACE								SPACE	PFB	38
39	PFB	SPACE								SPACE	PFB	40
41	PFB	SPACE								SPACE	PFB	42

PHASE TOTALS		
A	B	C
11,501	10,386	10,095

PANEL AND CIRCUIT BREAKER NOTES:
[1] PROVIDE NEW CIRCUIT BREAKER IN SPACE FOR NEW CIRCUIT. MATCH TYPE AND AIC RATING OF NEW CIRCUIT BREAKER WITH EXISTNG CIRCUIT BREAKER.

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%	2,500	Watts
RECEPTACLES / OTHER x 100%	29,982	Watts
LARGEST MOTOR x 25%	2,213	Watts
TOTAL DEMAND LOADS	34,695	Watts
TOTAL DEMAND AMPS	96	AMPS

(N)PANEL "FM"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
150 Amp MCB
Amp MLO

FEED FROM Panel-F
10000 KAIC Rating
SURFACE Mounted
NEMA-1 Type

			PHASE SUMMARY (WATTS)								
CKT.	BKR	DESCRIPTION	A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	RECPT	180				180			RECPT	20/1	2
3	80/3	HP-C-1		8,850				582		FC C1 /BS-C1 AND FC C2 /BS-C2	20/2	4
5	-	-			8,850				582	-	-	6
7	-	-	8,850				2,000			INVERTER "INV-C"	25/1	8
9	20/2	REF C-1		80				582		FC C3 /BS-C3 AND FC C4 /BS-C4	20/2	10
11	-	-			80				582	-	-	12
13	20/2	FC C5 /BS-C5	291							SPARE	20/1	14
15	-	-		291						SPARE	20/1	16
17	20/1	SPARE								SPARE	20/1	18
19	20/1	SPARE								SPARE	20/1	20
21	20/1	SPARE								SPACE	PFB	24
23	20/1	SPARE								SPACE	PFB	24
25	PFB	SPACE								SPACE	PFB	26
27	PFB	SPACE								SPACE	PFB	28
29	PFB	SPACE								SPACE	PFB	30
31	PFB	SPACE								SPACE	PFB	32
33	PFB	SPACE								SPACE	PFB	34
35	PFB	SPACE								SPACE	PFB	36
37	PFB	SPACE								SPACE	PFB	38
39	PFB	SPACE								SPACE	PFB	40
41	PFB	SPACE								SPACE	PFB	42

PHASE TOTALS		
A	B	C
11,501	10,386	10,095

PANEL AND CIRCUIT BREAKER NOTES:
[1] PROVIDE NEW CIRCUIT BREAKER IN SPACE FOR NEW CIRCUIT. MATCH TYPE AND AIC RATING OF NEW CIRCUIT BREAKER WITH EXISTNG CIRCUIT BREAKER.

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%	2,500	Watts
RECEPTACLES / OTHER x 100%	29,982	Watts
LARGEST MOTOR x 25%	2,213	Watts
TOTAL DEMAND LOADS	34,695	Watts
TOTAL DEMAND AMPS	96	AMPS

INVERTER-A "INV-A"

120 Volt, 1 Phase, 2 Wire
25 Amp BUS CU.
30 Amp MCB
Amp MLO

FEED FROM Panel-DM
10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	LOAD (WATTS)
1	20/1	BUILDIN-A EXTERIOR LIGHTS	343
2	20/1	BUILDIN-A INTERIOR LIGHTS	100
3	20/1	SPARE	
4	20/1	SPARE	
5	20/1	SPARE	
6	20/1	SPARE	
		LOAD TOTAL	443

DEMAND LOADS		
LIGHTING / CONTINUOUS L	554	Watts
RECEPTACLES / OTHER x		Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	554	Watts
TOTAL DEMAND AMPS	5	AMPS

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

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Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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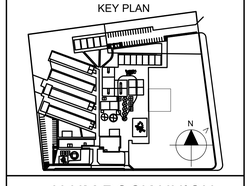
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

ELECTRICAL PANEL SCHEDULES

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E5.10
Drawn / Checked	
KT / CD	

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER & CATALOG NUMBER	LAMP (CROSS SECTION)	VOLTS / VA	MOUNTING	REMARKS
A	FINELITE HRP-LED-WAV2X4-DCO-HO-3500K-120V-SC-C1	LED 3500K 90 CRI	120 / 41	RECESSED	2'X4' T BAR LAY IN LED LUMINAIRE WITH COLD ROLLED STEEL HOUSING, REFLECTORS, DIFFUSE CENTER OPTIC IMPACT RESISTANT FROSTED WAVE ACRYLIC LENS, 0-10V LED DIMMING DRIVER.
A1	FINELITE HRP-LED-WAV2X4-DCO-HO-3500K-120V-SC-C1-EM	LED 3500K 90 CRI	120 / 41	RECESSED	SIMILAR TO TYPE "A" WITH 1700 LUMEN - INVERTER.
C	FINELITE HP-41D-SO-HO-3500K-TG-120V-FA-SC-C1 OR APPROVAL EQUAL	LED 3500K	120 / 55	PENDANT	HIGH PERFORMANCE LED INDIRECT/INDIRECT AIRCRAFT CABLE SUSPENDED FIXTURE, EXTRUDED ALUMINUM BODY OF LENGTH AS SHOWN ON PLAN, DIE FORMED 20 GAUGE CRS REFLECTRO, FROSTED SHANP-IN LENS, 120V DIMMING DRIVER - INVERTER AS SHOWN ON PLAN.
C1	FINELITE HP-41D-SO-HO-3500K-TG-120V-FA-SC-C1 OR APPROVAL EQUAL	LED 3500K	120 / 55	PENDANT	SIMILAR TO TYPE "C" 2'X12' - INVERTER.
D	WILLIAMS 124-L52/935-FAF12125-DIM-120V OR APPROVED EQUAL	LED 3500K 90 CRI	120 / 59	SURFACE	2'X4' SURFACE MOUNTED LED LUMINAIRE WITH COLD ROLLED STEEL POST PAINTED HOUSING, FROSTED ACRYLIC LENS, FLAT DOOR FRAME, LED DIMMING DRIVER. 120VAC.
D1	WILLIAMS 124-L52/935-FAF12125-DIM-120V OR APPROVED EQUAL	LED 3500K 90 CRI	120 / 59	SURFACE	SIMILAR TO TYPE "D" WITH 1700 - INVERTER.
E	RAB VANLED20NFR	LED	120 / 20	CANOPY/CEILING MOUNTED	WALKWAY/CANOPY MOUNTED LED - INVERTER.
F	RAB BRISKS11L-740	LED	120 / 9	WALL MOUNTED	WALL MOUNTED LED - INVERTER.
G	RAB FFLED80SFN	LED	120 / 80	FLOODLIGHT	FLOODLIGHT LED WITH 10508 LUMEN - INVERTER.
H	WILLIAMS SLIMLINE ARCHITECTURAL	LED	120 / 18.3	CEILING MOUNTED	CEILING MOUNTED LED WITH 1000 LUMEN.
X	HE WILLIAMS EXIT/CA-G-WF-WHT-EM-SDT-D	LED	120 / 4.4	WALL/CEILING MOUNTED	SINGLE FACE LED EXIT SIGN. W/ TEST SWITCH AND LED INDICATOR LIGHT. PROVIDE 90 MINUTE MIN EMERGENCY BATTERY BACKUP.

DSA STAMP

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DATE: 5/5/2023

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Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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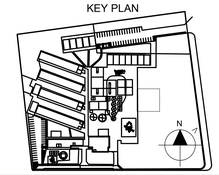
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

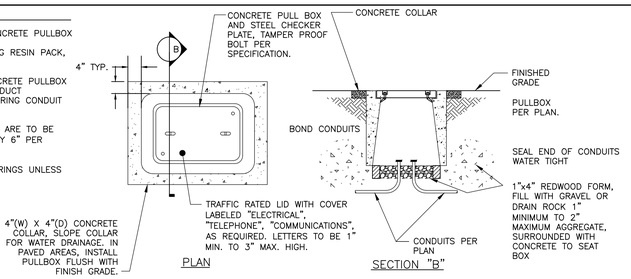
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2851 GAY AVE.,
SAN JOSE, CA 95127

LIGHTING FIXTURE SCHEDULE

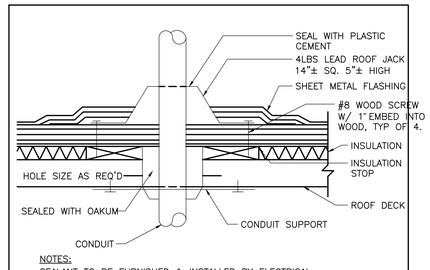
Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E5.11
Drawn / Checked	
KT / CD	

NOTES:

1. ALL SPLICES WITH-IN THE CONCRETE PULLBOX ARE TO BE SEALED WITH AN INSULATING AND ENCAPSULATING RESIN PACK, SCOTCHCAST 4 OR EQUAL.
2. ALL CONDUIT WITHIN THE CONCRETE PULLBOX ARE TO BE SEALED WITH RTV DUCT SEAL TO PREVENT WATER ENTERING CONDUIT SYSTEM.
3. ALL CONDUCTORS AND CABLES ARE TO BE GROUPED AND WIRE TIED EVERY 6" PER CONDUIT FILL.
4. PROVIDE TWO 12" EXTENSION RINGS UNLESS NOTED OTHERWISE

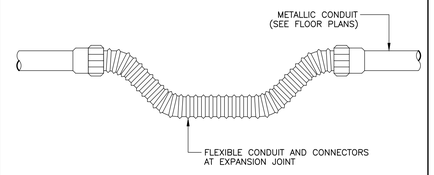


FILE NAME: TYPICAL UNDERGROUND CONCRETE PULLBOX DETAIL — NTS — 7



NOTES:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

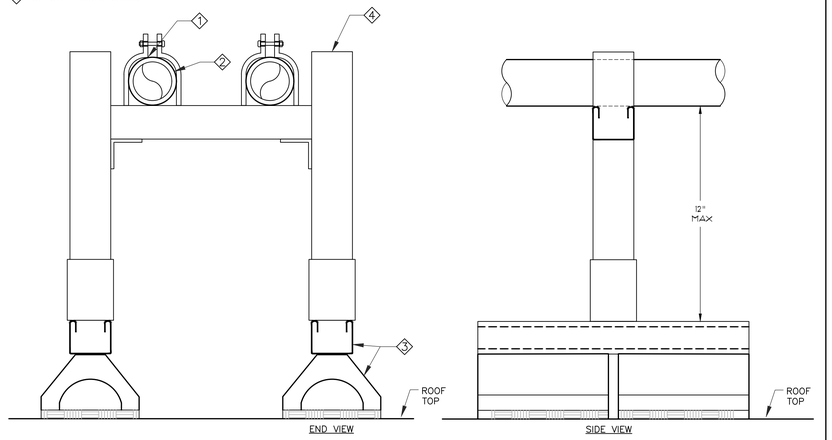
ELCE0018 — ROOF CONDUIT PENETRATION DETAIL — NTS — 4



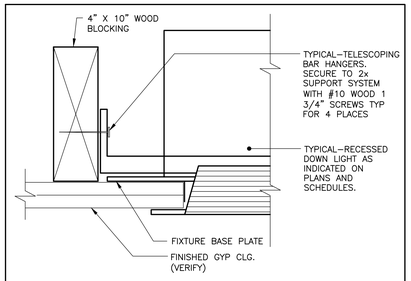
SEISMIC JOINT CONDUIT DETAIL — NTS — 1

KEY NOTES

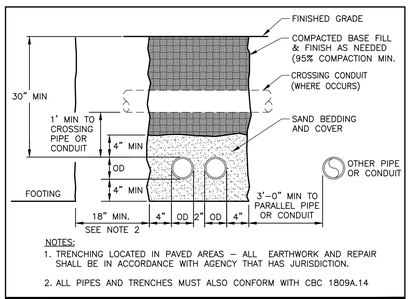
1. HOT-DIPPED GALVANIZED UNISTRUT CONDUIT CLAMP. SIZE AS REQUIRED.
2. CONDUIT AS NOTED ON DRAWINGS.
3. ROOFTOP SUPPORT BASE, B-LINE BB_DS SERIES WITH HOT-DIPPED GALVANIZED CHANNEL. SECURE TO ROOF WITH A FULL BED OF NON-HARDENING ADHESIVE TYPE MASTIC.
4. SH STYLE RISER CHANNEL



FILENAME: ROOF CONDUIT HIGH SUPPORT DETAIL — NTS — 11

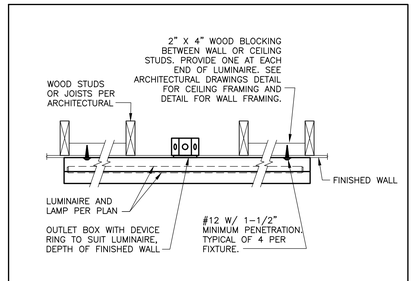


FILENAME: RECESSED DOWNLIGHT MOUNTING DETAIL (WOOD FRAMING) — NTS — 8

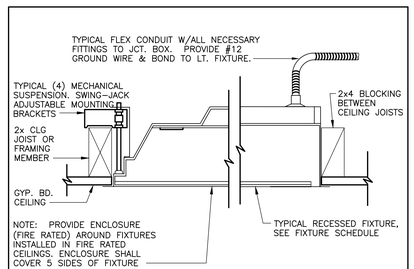


NOTES:
1. TRENCHING LOCATED IN PAVED AREAS – ALL EARTHWORK AND REPAIR SHALL BE IN ACCORDANCE WITH AGENCY THAT HAS JURISDICTION.
2. ALL PIPES AND TRENCHES MUST ALSO CONFORM WITH CBC 1809A.14

FILENAME: TYPICAL TRENCH DETAIL — NTS — 9



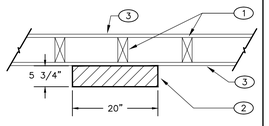
FILENAME: WALL/CEILING SURFACE LIGHT FIXTURE MOUNTING DETAIL FOR WOOD FRAMING — NTS — 5



FILENAME: RECESSED FIXTURE MOUNTING DETAIL — NTS — 6

KEY NOTES:

1. WOOD STUD
2. SURFACE MOUNTED PANEL CABINET, (SEE NOTE #1 FOR PANEL WEIGHT)
3. SHEET ROCK OR OTHER WALL SURFACE MATERIAL (SEE ARCH. DRAWINGS)
4. 4X MIN. WOOD BLOCK, FASTENED TO VERTICAL STUDS AT EACH END.
5. 5/16" LAG SCREWS WITH 2 1/2" MIN. EMBED TO BLOCK, (4) LAG SCREWS TOTAL. (INSTALLED BY ELECTRICAL CONTRACTOR)



TOP VIEW

PROVIDE:
SIMPSON A34 CLIPS ATTACHED WITH #9x1-1/2" SD SCREWS STAGGER EACH END OF 4X BLOCKING, TYPICAL

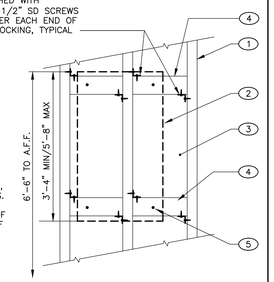
NOTES:

A. PANEL WEIGHT:
REGULAR: 150 LBS.
LARGE: 250LBS. MAX

B. MOUNT TERMINAL CABINETS, J-BOXES, ETC., SIMILAR TO 30 CIRCUIT PANELBOARD.

C. REFER TO PANEL SCHEDULE SHEET Ex.x, FOR SIZES OF PANELS.

D. CENTER OF GRAVITY OF CABINET FROM TOP OF FLOOR = ±50".

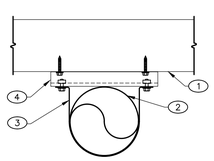


FRONT VIEW

FILENAME: SURFACE PANELBOARD/CABINET WOOD FRAMING MOUNTING DETAIL — NTS — 2

KEY NOTES

1. WOOD FRAMED COVER WALKWAY.
2. CONDUIT, SEE PLAN FOR NUMBER AND SIZE.
3. "B-LINE" B3180 SERIES PIPE CLAMP. ATTACH TO CHANNEL W/ CHANNEL NUT AND WASER.
4. "B-LINE" B22 CHANNEL, LENGTH AS NEEDED FOR NUMBER OF CONDUITS, MIN 12" LONG. ATTACH TO WOOD JOIST W/ (2) 5/8"ø LAG BOLTS, MIN 3-1/2" EMBEDMENT., AT 8" O.C.

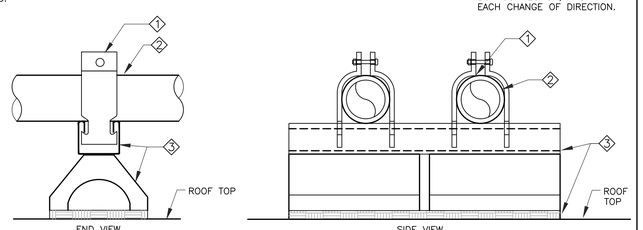


FILENAME: UNDER COVER WALKWAY CONDUIT MOUNTING DETAIL — NTS — 10

KEY NOTES

1. HOT-DIPPED GALVANIZED UNISTRUT CONDUIT CLAMP. SIZE AS REQUIRED.
2. CONDUIT AS NOTED ON DRAWINGS.
3. ROOFTOP SUPPORT BASE, B-LINE C6 SERIES WITH HOT-DIPPED GALVANIZED B12 CHANNEL. SECURE TO ROOF WITH A FULL BED OF NON-HARDENING ADHESIVE TYPE MASTIC.

NOTE:
INSTALL SUPPORT BLOCK 8'-0" O.C. MAX, WITHIN 36" OF A BOX CONNECTION, AND AT EACH CHANGE OF DIRECTION.



ROOF CONDUIT LOW SUPPORT DETAIL — NTS — 3

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STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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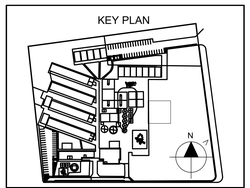
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

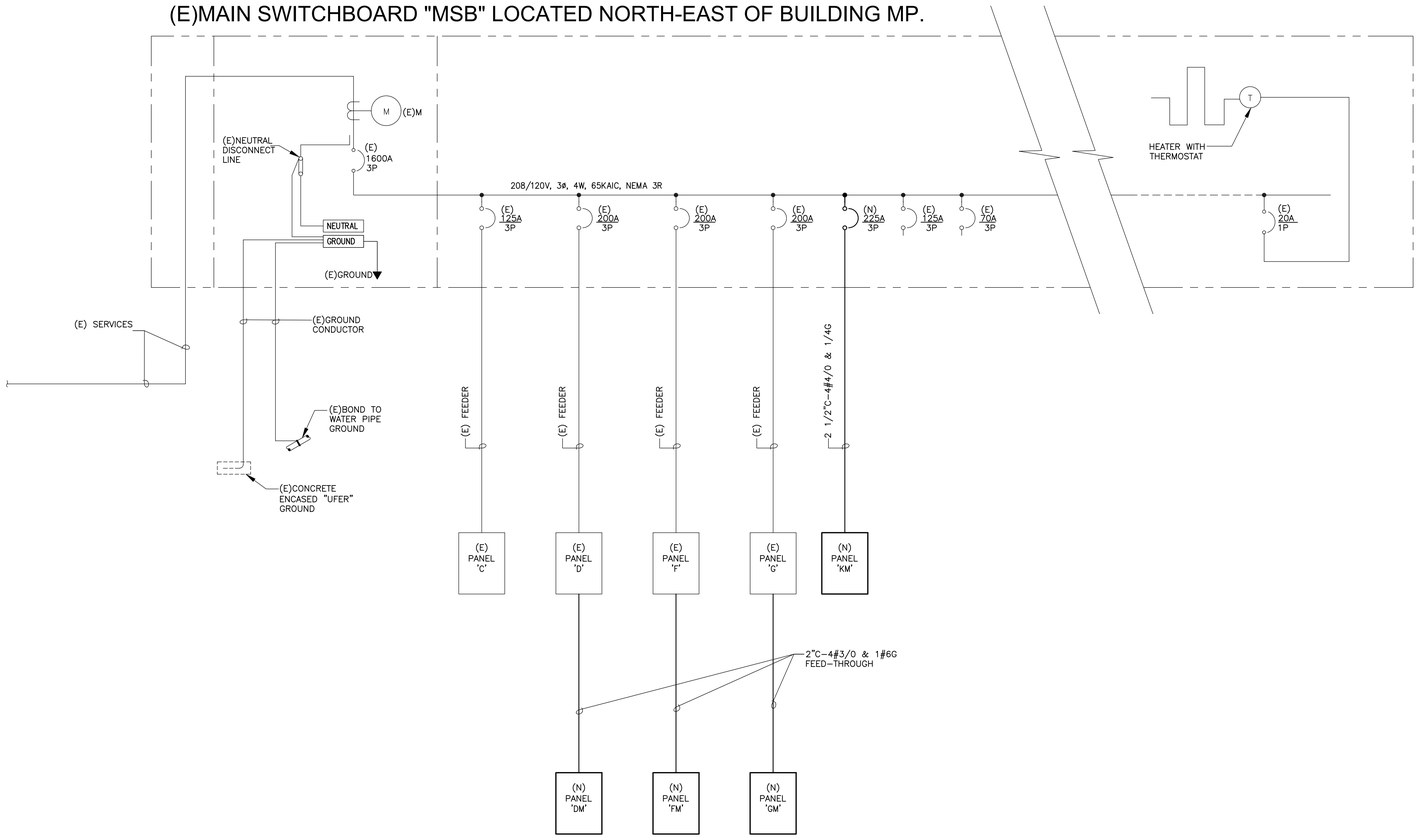
CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

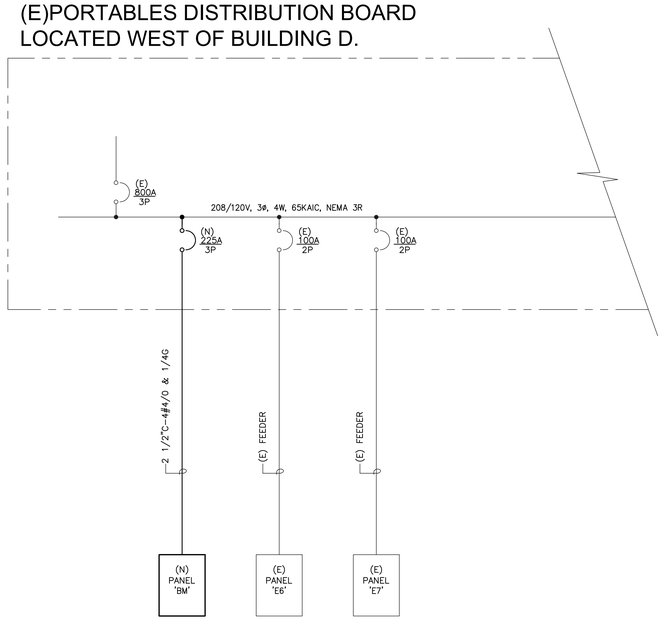
ELECTRICAL DETAILS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E5.12
Drawn / Checked	
KT / CD	

(E)MAIN SWITCHBOARD "MSB" LOCATED NORTH-EAST OF BUILDING MP.



(E)PORTABLES DISTRIBUTION BOARD LOCATED WEST OF BUILDING D.



GENERAL NOTES

A. PROVIDE ALL NECESSARY AUXILIARY EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

B. LETTER FOR SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY SHALL BE AVAILABLE AT THE JOB SITE FOR INSPECTION.

C. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, UNLESS SPECIFIED OTHERWISE.

D. THE CONTRACTOR SHALL, PROVIDE A SHORT CIRCUIT, PROTECTIVE DEVICE COORDINATION STUDY AND ARC FLASH STUDY FOR THE PROJECT COMPLETE ELECTRICAL DISTRIBUTION SYSTEM, SUBMIT TO THE ELECTRICAL ENGINEER OF RECORD FOR REVIEW. PROVIDE ALL SHORT CIRCUIT DEVICE AND EQUIPMENT CHARACTERISTIC INFORMATION FOR ALL ELECTRICAL COMPONENTS PROVIDE TIME–CURRENT CURVES FOR ALL OVERCURRENT PROTECTIVE DEVICES IN THE SUBMITTAL. SET AND ADJUST ALL DEVICES IN ACCORDANCE WITH THE RESULTS OF THIS STUDY PRIOR TO ENERGIZING EQUIPMENT.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERTINENT INFORMATION NECESSARY IN ORDER TO PERFORM THE REQUIRED SHORT CIRCUIT PROTECTIVE DEVICE COORDINATION AND ARC FLASH STUDIES TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
   1. CONTACTING THE SERVING POWER UTILITY TO OBTAIN THE AVAILABLE SHORT CIRCUIT CURRENT AT THE PROJECT POINT OF CONNECTION AND/OR SECONDARY OF THE SERVING UTILITY COMPANY SERVICE TRANSFORMER(S).
   2. FIELD INVESTIGATION TO DETERMINE THE SHORT CIRCUIT CURRENT RATING FOR ANY EXISTING ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT.
   3. ELECTRICAL CHARACTERISTICS FOR ALL PROPOSED NEW ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT.

F. THE CONTRACTOR SHALL PROVIDE APPROVED PERMANENT LABELS FOR ALL ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT TO CLEARLY IDENTIFY THE AVAILABLE SHORT CIRCUIT CURRENT AND ARC FLASH ENERGY LEVELS AND REQUIRED PPE (PERSONNEL PROTECTIVE EQUIPMENT).

G. ALL SWITCHBOARDS, DISTRIBUTION PANELS, AND PANELBOARDS SHALL BE FULLY RATED FOR INTERRUPTING CAPACITY. SERIES RATED EQUIPMENT SHALL NOT BE USED.

H. EACH SERVICE DISCONNECT SHALL BE PERMANENTLY MARKED TO IDENTIFY IT AS A SERVICE DISCONNECT.

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STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
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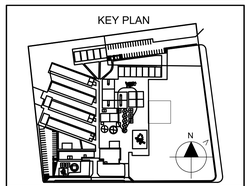
REVISION HISTORY

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○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

PARTIAL ONE LINE DIAGRAMS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	E5.13
Drawn / Checked	
KT / CD	

CONTRACTOR(S) GUIDELINES:

28. ALL SPLICES SHALL UTILIZE 3M 710 MODULES. ALL CABLES MUST BE EQUIPPED TO PROVIDE A CONTINUOUS BOUND OF CABLE SHIELDS THROUGH ALL SPLICES.

29. PULL ROPES SHALL BE PLACED IN ALL VACANT CONDUITS.

30. ALL WORK MUST BE COMPLETED IN A NEAT AND PROFESSIONAL MANNER. THE WORK SITE SHALL BE KEPT CLEAN AND ALL DAMAGE TO OWNER'S PROPERTY REPAIRED.

31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A FINAL CLEANUP OF THE WORK SITE PRIOR TO FINAL SYSTEM ACCEPTANCE.

32. CONTRACTOR SHALL REMOVE ALL COPPER, FIBER AND COAXIAL CABLES ABANDONED IN CONDUIT, CEILINGS AND WALLS PER CEC. CABLE SHALL INCLUDE ALL INTRABUILDING, RISER SYSTEMS AND STATION CABLES FOR ALL LOW VOLTAGE/TECHNOLOGY/STRUCTURED CABLING SYSTEMS.

33. CONTRACTOR(S) SHALL VERIFY ALL SITE CONDITIONS PRIOR TO BID.

34. IN ACCESSIBLE CEILING SPACES;

a. THE CONTRACTOR SHALL PROVIDE THE REQUIRED STUB UP(S) / OUT(S) AND BOXES WITH MUD-RINGS TO THE NEAREST ACCESSIBLE CEILING SPACE AND / OR NEAREST TECHNOLOGY PATHWAY INFRASTRUCTURE, REFERENCE PLANS AND SPECIFICATION FOR MORE INFORMATION.

b. THE DESIGNATED SCS / TECHNOLOGY CONTRACTOR(S) SHALL PROVIDE A J-HOOK PATHWAY SYSTEM AND REQUIRED SLEEVES. DO NOT USE CEILING TILE WIRE HANGERS, WATER OR ELECTRICAL PIPES, OR LIGHT FIXTURES TO HANG CABLE. CABLE MUST BE A MINIMUM OF 6 INCHES ABOVE THE CEILING TILE AND MUST NOT COME WITHIN TWELVE INCHES OF A LIGHT FIXTURE.

- THE SCS / TECHNOLOGY CONTRACTOR WILL PROVIDE THE PATHWAY REQUIRED FOR THE STRUCTURE CABLING SYSTEMS.
- THE DESIGNATED LOW VOLTAGE / TECHNOLOGY CONTRACTOR(S) FOR EACH "SUB-SYSTEM WILL PROVIDE THE PATHWAY REQUIRED FOR THE SYSTEMS, OUTSIDE WHAT IS CONSIDERED THE STRUCTURED CABLING SYSTEM.

35. IN INACCESSIBLE AND HARDLID CEILING SPACES;

a. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT PATHWAYS, BOXES ETC. FOR A COMPLETE SYSTEM FROM THE MDF ROOM, IDF ROOM(S), IDF CABINET(S), AND ALL OTHER LOW VOLTAGE / TECHNOLOGY SYSTEMS HEADEND, CABINETS, TERMINAL CABINETS, ETC. TO THE POINT OF TERMINATION AT THE STATION END LOCATION PER PLANS AND SPECIFICATION.

TECHNOLOGY ABBREVIATIONS

ACP	ACCESS CONTROL PROCESSOR
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICITON
AMP	AMPLIFIER
AOR	ARCHITECT OF RECORD
AUD	AUDIO
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIOVISUAL
AVc	AUDIOVISUAL CONTROLLER
AWG	AMERICAN WIRE GUAGE
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS CONDUIT
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CL	CENTERLINE
DIV	DIVISION
DC	DOOR CONTACT
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
ECS	EMERGENCY COMMUNICATION SYSTEM
EF	ENTRANCE FACILITY FOR TELECOMMUNICATION
EMT	ELECTRIC METALLIC TUBING
ER	EQUIPMENT ROOM
EXT	EXTERIOR
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FB	FLOORBOX
FO	FIBER OPTIC
GC	GENERAL CONTRACTOR
IC	INTERCOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
ICP	INTRUSION CONTROL PROCESSOR
INT	INTERIOR
IP	INTERNET PROTOCOL
IT	INFORMATION TECHNOLOGY
JB	JUNCTION BOX
MDF	MAIN DISTRIBUTION FRAME
MIC	MICROPHONE
MM	MULTIMODE
MPOE	MINIMUM POINT OF ENTRY

(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NVR	NETWORK VIDEO RECORDER
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OSP	OUTSIDE PLANT
PB	PULL BOX
PIR	PASSIVE INFRARED
POE	POWER OVER ETHERNET
PR	PAIR OF CONDUCTORS
PTZ	PAN TILT ZOOM
PVC	POLYVINYL CHLORIDE
PWR	POWER
RCP	REFLECTED CEILING PLAN
REX	REQUEST TO EXIT
RFI	REQUEST FOR INFORMATION
RMC	RIGID METALLIC CONDUIT
SCS	STRUCTURED CABLING SYSTEM
SM	SINGLE MODE
STR	STRANDS (OF FIBER)
STP	SHIELDED TWISTED PAIR
SEC	SECURITY
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TELCO	TELEPHONE COMPANY
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATION MAIN GROUNDING BUSBAR
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOICE
VSS	VIDEO SURVEILLANCE SYSTEM
WB	WALL BOX
WP	WEATHERPROOF

EQUIPMENT ANCHORAGE NOTES:

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 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE 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 APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. 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 WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE 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, AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES:

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 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR CBC), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #0043-13.

MP ☐ MD ☐ PP ☐ E ■

MP ☐ MD ☐ PP ☐ E ☐

TECHNOLOGY PENETRATION NOTES:

1. UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE NO PENETRATION OF FLOORS, WALLS OR CEILING WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE.

2. WALL PENETRATIONS:

a. THE SCS AND/OR LV CONTRACTOR SHALL PROVIDE FIRE STOPPING FOR ALL COMMUNICATIONS RATED (AND IN SOME CASES NON-RATED, THAT WILL BE DESCRIBED BELOW THIS SECTION) PATHWAYS AND SPACES. THESE FIRE STOPPING DEVICES SHALL CONFORM TO (BUT NOT LIMITED TO) UL 1479, ASTM E814, BICSI TDMM, FIRE STOPPING ANSI/TIA-568-C, STANDARD FOR INSTALLING COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING, SECTION 5, CLAUSE 5.1 THROUGH 5.2.3, MANUFACTURES GUIDELINES OR OTHER PREVAILING CODE AND MUST BE AN APPROVED UL LISTED SYSTEM.

b. CABLE TRAY FIRE-STOPPING SHALL UTILIZE THE MULTI GANG FIRE-STOPPING SYSTEM THAT WILL BE ABLE TO STACK THE UNITS HORIZONTALLY AND/OR VERTICALLY IF REQUIRED DUE TO CURRENT AND/OR FUTURE CABLING DESIGNS.

c. THE CONTRACTOR SHALL INSTALL PENETRATION FIRE-STOP SEAL MATERIALS IN ACCORDANCE WITH DESIGN REQUIREMENTS, AND MANUFACTURER'S INSTRUCTIONS.

d. THE CONTRACTOR'S INSTALLER SHALL BE CERTIFIED, LICENSED OR OTHERWISE QUALIFIED BY THE FIRE-STOPPING MANUFACTURER AS HAVING BEEN PROVIDED THE NECESSARY TRAINING TO INSTALL MANUFACTURER'S PRODUCTS PER SPECIFIED REQUIREMENTS.

e. ALL THROUGH-PENETRATION SHALL BE A MANUFACTURED, UL CLASSIFIED, FIRE-STOP DEVICE / SYSTEM DESIGNED TO ALLOW CABLES TO PENETRATE FIRE-RATED WALLS WITH A BUILT-IN FIRE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED. THE FIRE-STOPPING DEVICE SHALL BE CAPABLE OF INSTALLATION IN NEW CONSTRUCTION OR RETROFIT IN EXISTING STRUCTURES.

f. THE CONTRACTOR MUST NOT USE CONCRETE OR OTHER NON-REMOVABLE SUBSTANCE FOR FIRE STOPPING ON CABLE TRAYS, WIREWAYS OR CONDUITS. CONTRACTORS WHO USE THIS METHOD WILL BE REQUIRED TO REPLACE ALL CABLES AFFECTED AND PROVIDE THE ORIGINAL SPECIFIED ACCESS TO EACH EFFECTED AREA. THIS REQUIREMENT ALSO APPLIES TO MAINTAINING FIRE RATINGS OF ALL FLOORS PENETRATED BY CONDUITS OR DEVICES DESIGNATED FOR USE BY VOICE AND DATA CABLING.

g. ANY PENETRATIONS THROUGH FIRE-RATED WALLS FOR CABLE PATHWAYS / CABLES SHALL BE SEALED BY USE OF A NON-PERMANENT FIRE BLANKET OR OTHER METHOD IN COMPLIANCE. THE CONTRACTOR MUST USE FIRE STOPPING ON CABLE TRAYS, WIREWAYS AND CONDUITS EITHER VERTICAL OR HORIZONTAL. FOUR DIFFERENT METHODS OF FIRE-STOPPING HAVE BEEN IDENTIFIED FOR THE HORIZONTAL THROUGH PENETRATIONS BETWEEN WALLS, RATED, RATED WITH ACOUSTIC PROPERTIES, NON-RATED, AND NON-RATED WITH ACOUSTIC PROPERTIES.

BELOW ARE METHODS TO ACCOMPLISH THESE DIFFERENT TYPES:

- SEALING OF RATED OPENINGS BETWEEN FLOORS OR THROUGH RATED WALLS, WHETHER EXISTING OR CREATED BY THE CONTRACTOR FOR PLACEMENT OF CABLE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEALING MATERIAL AND APPLICATION SHALL BE AN APPROVED UL LISTED SYSTEM AND SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT IS ACCEPTABLE TO THE LOCAL FIRE AND BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS WORK. CREATION OF SUCH OPENINGS AS ARE NECESSARY FOR CABLE PASSAGE BETWEEN LOCATIONS AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY OPENINGS CREATED BY OR FOR THE CONTRACTOR AND LEFT UNUSED SHALL ALSO BE SEALED AS PART OF THIS WORK.
- RATED WALLS WITH THROUGH PENETRATIONS WITH ACOUSTIC PROPERTIES SHALL BE INSTALLED WITH FACTORY MANUFACTURED DEVICE. SUCH AS A STI "EZ PATH" OR WIREMOLD "FLAMESTOPPER" OR EQUAL. THE TYPICAL STC RATING IS TO BE EQUAL TO OR GREATER THAN THE WALL PENETRATED, (AVG IS A RATING OF 44 STC PER UBC RATINGS).
- NON-RATED PATHWAY, ALTHOUGH NOT REQUIRED TO BE FIRE-STOPPED, SHALL BE A MANUFACTURED DEVICE THAT WILL ALLOW FIRE-STOPPING TO BE INSTALLED IN THE FUTURE IF REQUIRED, (I.E. WIREMOLD "FLAMESTOPPER" OR EQUAL).
- A NON-RATED PATHWAY WITH ACOUSTIC PROPERTIES CAN BE FOUND IN AREAS SUCH AS, CONFERENCE ROOMS, HUMAN RESOURCE OFFICES, MEDICAL EXAMINATION ROOMS ETC. THESE ROOMS REQUIRE TO LIMIT THE AMOUNT OF AMBIENT NOISE THAT CAN TRAVEL FROM ONE ROOM TO THE OTHER THROUGH THE CEILING GRID. IF THIS WALL IS PENETRATED, INSTALL A SYSTEM THAT WILL RE-ESTABLISH THE STC RATING OF THE WALL, THE TYPICAL STC RATING IS AN AVERAGE OF 44 STC PER UBC RATINGS.

CONTRACTOR(S) GUIDELINES:

1. ALL TECHNOLOGY WORK SHALL COMPLY WITH DESIGN GUIDELINES AS WELL AS APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.

2. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, CODE OR SPECIFICATION WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.

3. OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR THE MIS-DESCRIPTION OF DETAILS FROM WORK WHICH ARE CLEAR AND NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS, SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MIS-DESCRIBED DETAILS OF THE WORK BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.

4. THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED, IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE OWNER OF ANY DISCREPANCIES.

5. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.

6. THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.

7. ALL CHANGES TO STRUCTURES (BUILDING, DRILLING, CORING, ETC.) NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN WRITING BY STRUCTURAL ENGINEER.

8. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, THE TELECOM DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DATA INFORMATION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE SCS AND LOW VOLTAGE WORK INTERFACES WITH OTHER TRADES.

9. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS TO REFLECT ALL CHANGES MADE DURING CONSTRUCTION AND ANY DEVIATIONS FROM THE ELECTRICAL AND TECHNOLOGY DRAWINGS. THIS INCLUDES DEVIATIONS FROM OUTLET NUMBERS AND ANY ADDITION, DELETION OR RELOCATION OF OUTLETS SHOWN ON WORKING DRAWINGS, PATHWAY ADDITIONS, DELETIONS OR RELOCATIONS. THE CONTRACTOR SHALL AFTER COMPLETION OF JOB, PROVIDE THE OWNER AN ELECTRONIC AND HARD COPY OF AS-BUILT WORK.

10. ANY DEVIATIONS FROM PLANS OR SPECS MUST BE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.

11. ALL FOOTAGES ON DRAWINGS ARE ESTIMATED AND MUST BE VERIFIED BY CONTRACTOR PRIOR TO ORDERING MATERIAL.

12. ALL STATION CABLES SHALL BE NEATLY DRESSED AND SECURED EVERY FIVE FEET AT A MINIMUM.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILE INCLUDING REPLACEMENT OF BROKEN OR DAMAGED TILES.

14. ALL LOCATIONS PASSING THROUGH A FIRE OR A SMOKE BARRIER MUST BE FIRE STOPPED USING APPROVED (UL CLASSIFIED) FIRE STOP SYSTEM, INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND PROPERLY LABELED.

15. CONDUIT SHALL BE FILLED TO MAXIMUM CAPACITY (PER CODE, STANDARDS, AND NORMS) BEFORE UTILIZING ANOTHER VACANT CONDUIT.

16. ALL STATION OUTLETS AND TERMINALS SHALL BE PROPERLY IDENTIFIED USING THE OWNER'S STANDARD INTERNAL DISTRIBUTION NUMBERING SCHEME. ALL LABELS SHALL BE PREPRINTED OR TYPED.

17. EACH BACKBONE RISER AND/OR OSP CABLE SHALL BE EQUIPPED WITH A PERMANENT LABEL INDICATING CABLE TYPE, PAIR OR OPTIC COUNTS, DISTANT ENDS, AND CABLE LENGTH. BOTH ENDS OF EACH CABLE AND AT EVERY MAINTENANCE HOLE, HAND HOLE, AND PULL BOX, SHALL BE SO LABELED.

18. FIBER BACKBONE CABLE SHALL BE PLACED WITH 6 FOOT MAINTENANCE LOOP AT BOTH ENDS OF THE RUN. THE MAINTENANCE LOOP SHALL BE SECURED IN SUCH A MANNER TO PROVIDE PROTECTION DURING SUBSEQUENT CABLE PULLS.

19. ALL STATION CABLES/OUTLETS SHALL BE TESTED AND DOCUMENTED USING A PAIR SCANNER SPECIFICALLY DESIGNED TO TEST THE TYPE OF CABLE INSTALLED (E.G. CATEGORY 6A). TEST RESULTS SHALL BE ONE PAGE PER AND NOTED WITH THE STATION/JACK NUMBERING SCHEME THAT IS STANDARDIZED FOR THE OWNER.

20. ALL FIBER OPTIC STATION AND RISER CABLE SHALL BE TESTED END-TO-END AND THE RESULTS (LOSS IN dB) NOTED ON A SEPARATE TYPED SHEET.

21. AFTER STATION CABLE IS TESTED AND DOCUMENTED, ONE PAIR FROM EACH VOICE STATION SHALL BE CROSS CONNECTED THROUGH EACH CLOSET BACK TO THE MAIN DISTRIBUTION FRAME. TELEPHONE NUMBER ASSIGNMENTS FOR EACH JACK MUST BE APPROVED BY THE TELECOM STAFF PRIOR TO IMPLEMENTATION. A WRITTEN RECORD OF ALL CROSS CONNECT ASSIGNMENTS WILL BE PROVIDED TO THE OWNER BY THE SCS CONTRACTOR.

22. FIBER CABLES SHALL BE SPLICED TOGETHER USING A FUSION SPLICE AND PLACED IN A FIBER SPLICE CASE THAT IS RE-ENTERABLE, FULLY DRESSED AND ENCLOSED TO FIT THE NUMBER AND TYPE OF CABLES TERMINATED.

23. CABLE TRAY SHALL BE PLACED IN MDF AND IDF(S) AS SHOWN ON DRAWINGS AND AS REQUIRED TO PROPERLY SECURE CABLES AND WIRE.

24. A BACKBONE CABLE ASSIGNMENT RECORD SHEET SHALL BE PREPARED (TYPED) PRIOR TO START OF ACCEPTANCE TESTING. ALL FLOOR PLANS SHALL BE NEATLY HAND NOTED WITH STATION JACK NUMBER AND CABLE LENGTH.

25. ALL CABLES SHALL BE CLEARLY LABELED WITH CABLE NUMBERS, PAIR ASSIGNMENTS AND DESIGNATION.

26. ALL CABLE TRAYS, LADDER RACKS, CONDUITS, EQUIPMENT RACKS, PROTECTOR PANELS, AND CABLE SHEATHS SHALL BE BONDED & GROUNDED TO EQUIPMENT GROUND WITH #6 WIRE (MIN.)

27. ALL SPLICES SHALL BE CONTAINED WITHIN AN APPROVED SPLICE CASE DESIGNED FOR MULTIPLE CLOSURE.

TECHNOLOGY CABLING NOTES:

1. THE USE OF LUBRICANTS SUCH AS CLEAR GLIDE, TO FACILITATE THE INSTALLATION OF CABLES IN CONDUITS IS ENCOURAGED FOR FRICTION REDUCTION AND TO MAINTAIN THE REQUIRED PULL TENSION. YELLOW 77 AND POLYWATER "F" IS PERMISSIBLE FOR USE AS A LUBRICANT FOR ISP TECHNOLOGY CABLING. THE USE OF OSP, LOW TEMPERATURE CABLE LUBRICANTS SHALL NOT BE ACCEPTABLE IN AN INDOOR PLENUM ENVIRONMENT. UNDER NO CIRCUMSTANCES SHALL CABLE PULLING LUBRICANT BE ALLOWED TO ACCUMULATE ON WALLS, FLOORS, BACKBOARDS, OR OTHER SURFACES OUTSIDE THE CONDUIT.

2. ANY CABLE DAMAGED OR EXCEEDING RECOMMENDED INSTALLATION PARAMETERS DURING INSTALLATION SHALL BE REPLACED BY THE CONTRACTOR BEFORE FINAL ACCEPTANCE AT NO COST TO THE OWNER.

3. EACH RUN OF CABLE BETWEEN THE TERMINATION BLOCK OR PATCH PANEL AND THE STATION CONNECTOR SHALL BE CONTINUOUS WITHOUT ANY JOINTS OR SPLICES.

4. ALL STATION CABLE SHALL BE PLACED IN THE INTERIOR OF WALLS UNLESS OTHERWISE NOTED OR OBSTRUCTED.

5. PROVIDE BUSHINGS, GROMMETS AND STRAIN-RELIEF FOR CABLES TERMINATING AT WALL-MOUNTED OUTLETS AND PATCH PANELS TO ENSURE DURABLE AND ROBUST CONNECTIONS. THE BUSHINGS AND GROMMETS ARE INTENDED TO PROTECT THE CABLES FROM ANY SHARP EDGES THAT PRESENT A RISK TO THE CABLES. ENSURE THAT ALL SHARP EDGES ARE COVERED TO PROTECT THE CABLES FROM DAMAGE.

6. ALL CABLE BUNDLES EXITING FLOOR OR WALL PENETRATIONS AND RUNNING INTO FURNITURE OR CASEWORK SHALL BE WRAPPED IN SPIRAL WRAP OR SPLIT-LOOM TUBING TO PROTECT THE CABLING AND PROVIDE A NEAT INSTALLATION.

7. ALL CABLE OR INNERDUCT SHALL RUN PARALLEL OR AT RIGHT ANGLES TO BUILDING WALL STRUCTURES.

8. IN SUSPENDED CEILING AND RAISED FLOOR AREAS WHERE DUCT, CABLE TRAYS OR CONDUIT ARE NOT AVAILABLE, CABLE BUNDLES SHALL BE SUPPORTED VIA "J" HOOKS ATTACHED TO THE BUILDING STRUCTURE AND FRAMEWORK AT A MAXIMUM OF FIVE (5) FOOT INTERVALS. MINIMUM 1 " WIDE J-HOOKS SHALL BE APPROPRIATELY SIZED TO ALLOW A MINIMUM OF 60% SPARE CAPACITY FOR FUTURE CABLE INSTALLATION. THE CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID FOR ANY ADDITIONAL SUPPORTS/SEISMIC BRACING REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

9. THE CONTRACTOR SHALL BUNDLE, IN BUNDLES OF 48 OR LESS, STATION OR OTHER CABLING WITH 3/4" HOOK AND LOOP "VELCRO" STRIPS TIGHT ENOUGH TO HOLD THE BUNDLE TOGETHER IN A CYLINDRICAL SHAPE, BUT NOT SO TIGHT AS TO DEFORM THE CABLE GEOMETRY. IT SHALL BE POSSIBLE TO COMPLETELY ROTATE ALL HOOK AND LOOP TIES AROUND ALL CABLE BUNDLES. PLENUM RATED HOOK AND LOOP TIES WILL BE USED IN ALL PLENUM AREAS.

10. CABLES OR J-HOOKS SHALL NOT BE ATTACHED TO LIFT OUT CEILING GRID SUPPORTS OR LAID DIRECTLY ON THE CEILING GRID.

11. CABLES OR J-HOOKS SHALL NOT BE ATTACHED TO OR SUPPORTED BY FIRE SPRINKLER HEADS OR DELIVERY SYSTEMS OR ANY ENVIRONMENTAL SENSOR LOCATED IN THE CEILING AIR SPACE.

12. WHERE ADDITIONAL CONDUIT(S)/SLEEVE(S) ARE REQUIRED, BUT NOT PROVIDED BY THE CONTRACTOR, THE SCS AND/OR LV CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SUCH CONDUIT(S)/SLEEVE(S). CONDUIT(S) AND SLEEVE(S) SHALL BE OF SUITABLE MATERIAL, SIZED, INSTALLED, FIRE-STOPPED, AND GROUNDED AS REQUIRED BY THE CEC 2022, ANSI/TIA-569-D STANDARD AND ALL OTHER APPLICABLE CODES AND STANDARDS. SLEEVES SHALL CONSIST OF METALLIC CONDUIT DE-BURRED AND GROMMETTED ON BOTH ENDS WITH FLANGES OR OTHER MEANS TO PREVENT THE SLEEVE FROM SLIPPING OR FALLING OUT OF THE PARTITION. SLEEVES SHALL EXTEND A MINIMUM OF 6" ON BOTH SIDES OF THE PARTITION. OUTSIDE PERIMETER OF SLEEVES SHALL BE SEALED AGAINST SOUND, AIR, WATER, HEAT, OR AS REQUIRED BY PARTITION DESIGN. INSIDE OF SLEEVE SHALL BE SEALED SIMILARLY AFTER INSTALLATION OF ALL CABLING. CABLES SHALL BE INDEPENDENTLY SUPPORTED ON EITHER SIDE OF THE SLEEVE. SLEEVES SHALL NOT BE USED AS CABLE SUPPORTS. ANY CONDUIT(S) AND SLEEVE(S) ADDED BY THE SCS CONTRACTOR SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.

13. IN THE EVENT CONTRACTOR IS REQUIRED TO REMOVE CEILING TILES, SUCH WORK SHALL NOT BREAK OR DISTURB GRID. REMOVAL OF THE CEILING GRID MUST BE COORDINATED WITH THE OWNERS REPRESENTATIVE. ALL INSULATION SHALL BE REPLACED IN ITS ORIGINAL LOCATION.

14. THE NUMBER OF CABLES IN EACH CONDUIT SHALL BE CONTROLLED TO ALLOW FOR FUTURE CABLE INSTALLATION AND TO STAY WITHIN THE MANUFACTURER'S MAXIMUM ALLOWABLE CABLE PULLING TENSION. CONDUIT FILL RATIOS SHALL NOT EXCEED THE CURRENT REQUIREMENTS OF THE CEC 2022, ANSI/TIA-569-D, REFERENCE SECTION B.2, TABLES 1 AND 2 OF THIS DOCUMENT FOR ADDITIONAL REQUIREMENTS.

15. CONDUITS:
- ALL BACKBONE CABLING WILL RUN THROUGH DEDICATED CONDUITS.
- ALL NEW CONDUITS WILL BE SUPPLIED WITH A PULL STRING BY THE CONTRACTOR.
- EXISTING CONDUITS SHALL BE PROVEN TO BE CLEAR BY THE SCS AND/OR LV CONTRACTOR PRIOR TO PULLING OF CABLES.
- SCS AND/OR LV CONTRACTOR SHALL SUPPLY PULL STRING AND PULL ROPE FOR THE INSTALLATION OF ALL CABLES IN EXISTING CONDUITS.
- FOR ALL CONDUITS LEFT WITH AVAILABLE CAPACITY, SCS AND/OR LV CONTRACTOR SHALL REPLACE PULL STRINGS DURING THE COURSE OF HIS WORK.
- SCS AND/OR LV CONTRACTOR MUST SEAL ALL CONDUITS WITH AN APPROVED SEALING COMPOUND.

TECHNOLOGY GROUNDING SYSTEM NOTES:

1. THE CONTRACTOR SHALL PROVIDE A TELECOMMUNICATION GROUNDING BUSSBAR (TGB) AND TELECOMMUNICATION BONDING BACKBONE (TBB) CABLE(S) AT EACH MDF ROOM AND IDF LOCATION. TERMINATE THE TBB ON GROUND BARS LOCATED AT EACH MDF ROOM AND IDF CABINET FROM BUILDING STEAL OR MAIN ELECTRICAL GROUND, OR AS OTHERWISE INDICATED ON THE DRAWINGS.

2. THE SCS CONTRACTOR SHALL UTILIZE A TELECOMMUNICATIONS BONDING BACKBONE (TBB) AS INDICATED IN THE DRAWINGS. GROUNDING MUST BE IN ACCORDANCE WITH THE CEC 2022, ANSI/TIA-607-B AND ALL LOCAL CODES AND PRACTICES.

3. THE SCS CONTRACTOR SHALL BE RESPONSIBLE FOR BONDING ALL METALLIC SHEATH COMMUNICATIONS CABLES ENTERING THE BUILDING PER MANUFACTURER SPECIFICATIONS AND CEC 770-33, 800-33 AND 800-40. ALL GROUNDS SHALL CONSIST OF # 6-AWG COPPER WIRE AND SHALL BE SUPPLIED FROM AN APPROVED BUILDING GROUND AND BONDED TO THE MAIN ELECTRICAL GROUND. ALL CABLE SHEATHS AND SPLICE CASES SHALL BE GROUNDED TO A TELECOMMUNICATIONS GROUND BUS.

4. THE SCS CONTRACTOR SHALL PROVIDE GROUNDING AND BONDING FROM ALL HORIZONTAL EQUIPMENT INCLUDING DISTRIBUTION AND CROSS CONNECT FRAMES, PATCH PANELS, CABLE TRAYS, EQUIPMENT RACKS, LADDER TRAYS, CONDUITS, ACTIVE TELECOMMUNICATION EQUIPMENT, SLEEVES, TEST APPARATUS. EQUIPMENT SHALL BE BONDED TO THE TBB GROUND BARS UTILIZING A #6-AWG GREEN CONDUCTOR WITH 2-HOLE LONG BARREL COMPRESSION GROUNDING LUGS.

a. EACH EQUIPMENT CABINET AND RACK REQUIRES ITS OWN DEDICATED RACK GROUNDING BUSBAR (RGB) WITH A BONDING CONNECTION TO THE GROUNDING INFRASTRUCTURE. THE GROUNDING INFRASTRUCTURE CONSIST OF A TB, BY PROVIDING EVERY RACK/CABINET WITH ITS OWN DEDICATED #6 WAG (MIN.) GREEN CONDUCTORS BACK TO THE TOMB/TB. ALL GROUND CONDUCTOR ATTACHMENTS SHALL UTILIZE 2-HOLE LONG BARREL COMPRESSION LUGS.

b. HORIZONTAL CABLES SHALL BE GROUNDED IN COMPLIANCE WITH ANSI/TIA-607-C, FP 70 (EEC) AND LOCAL REQUIREMENTS AND PRACTICES.

c. IN RAISED-FLOOR ENVIRONMENTS, THE GROUND CONDUCTOR SHALL ATTACH TO THE LOWEST HOLES ON THE FRONT RAIL OF EACH RACK/CABINET.

d. RACK MOUNTED EQUIPMENT SHALL BE GROUNDED VIA THE CHASSIS, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

e. BONDING OF LADDER RACK SECTIONS: ATTACH BONDING STRAPS TO EACH LADDER RACK SECTION BY UTILIZING EITHER TWO (2) TRI-LOBULAR THREAD-FORMING SCREWS (NOT SELF-TAPPING OR SHEET METAL SCREWS) OR BY USING TWO (2) STANDARD BOLTS WITH TWO (2) "TYPE B" INTERNAL / EXTERNAL TOOTH LOCK WASHERS PER BOLT. IF THREAD-FORMING SCREWS ARE NOT USED, REMOVE PAINT AT EACH CONNECTION POINT AND USE AN APPROVED ANTI-OXIDANT PRIOR TO ATTACHING THE BONDING STRAP.

TECHNOLOGY TERMINAL BACKBOARD NOTES:

1. WHERE INDICATED ON DRAWINGS, CONTRACTOR TO PROVIDE NEW PLYWOOD TERMINAL BACKBOARDS. USE DOUGLAS FIR PLYWOOD, INTERIOR A/C GRADE, FINISHED ONE SIDE AND PRIME COAT PAINTED ON ALL SURFACES WITH A FINISH COAT OF FIRE RETARDANT WHITE ENAMEL. ON EACH PLYWOOD SHEET LEAVE ONE (1) FIRE MARSHAL STAMP UNPAINTED FOR INSPECTION. UNLESS OTHERWISE INDICATED, USE 8'-0" HIGH X LENGTH AS SHOWN ON DRAWINGS X 3/4" THICK PLYWOOD. REFERENCE BACKBOARD ELEVATIONS FOR MORE INFORMATION.

TECHNOLOGY PATHWAY NOTES:

1. PATHWAYS CAN BE DIVIDED UP INTO TWO SEPARATE CATEGORIES, OUTSIDE PLANT (OSP) AND INSIDE PLANT (ISP). IT IS THE SCS AND/OR LV SYSTEM(S) CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL EXISTING PATHWAYS (CONDUIT, CABLE TRAY, ETC) THAT WILL BE UTILIZED ON THE PROJECT, AND COORDINATE WITH THE ON-SITE ELECTRICAL OR GENERAL CONTRACTOR TO PROVE ALL PATHS SUBJECT TO BE USED ON THIS PROJECT, BEFORE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION ALL UNDERGROUND (OSP) PATHWAYS, NON-ACCESSIBLE AND OPEN CEILING SPACE PATHWAYS AS DESCRIBED IN SECTION F, CONTRACTOR GUIDELINES OF THESE TECHNOLOGY GENERAL NOTES.

2. ALL PULL-BOXES SHALL BE SIZED AND INSTALLED PER ANSI/TIA-569-D. PULL-BOXES FOR IN/UNDER SLAB CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULL-BOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULL-BOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3R RATED. PULL-BOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING: FOR FILL RATIO BASED CONDUIT SIZING REFER TO THE FILL RATIO TABLE 1A - 2B BELOW AND REFERENCE TO ANSI/TIA-569-D.

PULLBOX SIZING PER ANSI/TIA 569-D

Conduit Size	WIDTH	LENGTH	DEPTH	WIDTH INCREASE PER ADDITIONAL CONDUIT
1"	4"	15"...	3"	2"
2"	8"	36"	4"	5"
3"	61	48"	5"	6"
4"	101	60"	8"	8"

FILL RATIO TABLE 1A - Conduit

Conduit Size	.13	.18	.19	.20	.21	.22	.23	.24	.25	.26	.27	.28	.29	.30	.31	.32	.33	.34	.35	.37	.39
3/4"	16	8	7	6	6	5	5	4	4	4	3	3	3	3	2	2	2	2	2	1	1
1"	26	13	12	11	9	9	8	7	7	6	6	5	5	4	4	4	4	3	3	3	2
1 1/4"	45	23	21	19	17	15	14	13	12	11	10	9	9	8	7	7	6	6	6	5	5
1 1/2"	61	32	28	25	23	21	19	18	16	15	14	13	12	11	10	10	9	8	8	7	6
2"	101	52	47	42	38	35	32	29	27	25	23	21	20	18	17	16	15	14	13	12	11
2 1/2"	176	92	82	74	67	61	56	51	47	44	40	38	35	33	31	29	27	25	24	21	19
3"	266	139	124	112	102	93	85	78	72	66	61	57	53	50	46	43	41	38	36	32	29
3 1/2"	347	181	162	146	133	121	111	102	94	86	80	74	69	65	61	57	53	50	47	42	38
4"	444	231	208	187	170	155	142	130	120	111	103	95	89	83	78	73	68	64	61	54	49

FILL RATIO TABLE 2A - Cable Tray / Wire Basket / Raceway per NEC 2017 Article 725

Tray Size (WxD)	.13	.18	.19	.20	.21	.22	.23	.24	.25	.26	.27	.28	.29	.30	.31	.32	.33	.34	.35	.37	.39
4x4	482	251	225	203	184	168	154	141	130	120	111	103	96	90	84	79	74	70	66	59	53
6x4	723	377	338	305	277	252	231	212	195	180	167	155	145	135	127	119	112	105	99	89	80
12x4	1447	754	677	661	554	505	462	424	391	361	335	311	290	271	254	238	224	211	199	178	160
18x4	2170	1132	1016	917	831	758	693	636	587	542	503	467	436	407	381	358	336	317	299	267	241
24x4	2894	1509	1355	1222	1109	1010	924	849	782	732	671	623	581	543	509	477	449	423	399	357	321
6x6	1085	566	508	458	415	379	346	318	293	271	251	233	218	203	190	179	168	158	149	133	120
12x6	2170	1132	1016	917	831	758	693	636	587	542	503	467	436	407	381	358	336	317	299	267	241
18x6	3256	1698	1524	1375	1247	1137	1040	955	880	814	754	701	654	611	572	537	505	476	449	401	361
24x6	4341	2264	2032	1834	1663	1516	1387	1273	1174	1085	1006	935	872	815	763	716	673	634	598	535	482

PATHWAY SEPARATION FROM SOURCE OF ELECTROMAGNETIC ENEGRY:

CONDITION	<2KVA	2-5 KVA	>5KVA
Unshielded Power Lines in Proximity to open PVC Pathways	5" (In.)	12" (In.)	24" (In.)
Unshielded Power Lines in Proximity to Grounded Metallic Pathways	2.5" (In.)	6" (In.)	12" (In.)
Power Lines enclosed in Metal Grounded Pathways in proximity to Grounded Metallic...	<1" (In.)	3" (In.)	6" (In.)

3. FOR ALL FIRESTOPPING OF SCS AND LV SYSTEMS PATHWAY RESPONSIBILITIES REFERENCE SECTION G, PENETRATION OF WALLS, FLOOR AND CEILINGS OF THESE TECHNOLOGY GENERAL NOTES.

4. FOR ALL OTHER SCS AND/OR LV SYSTEMS PATHWAY RESPONSIBILITIES REFERENCE SECTION F, CONTRACTOR GUIDELINES OF THESE TECHNOLOGY GENERAL NOTES.

5. OUTSIDE PLANT (OSP) PATHWAYS CAN BE BROKEN DOWN INTO THE FOLLOWING ITEMS, MAINTENANCE HOLES, HAND HOLES, PULLBOXES, AND CONDUITS.

a. WHILE ENTERING MAINTENANCE HOLES, HAND HOLES, PULLBOXES, FOLLOW ALL CODES AND SAFETY PRACTICES OF A "CONFINED SPACE". UTILIZE NECESSARY EQUIPMENT TO MAINTAIN ALL SAFE PULLING TENSIONS FOR THE CABLES TO BE INSTALLED. THIS INFORMATION CAN BE FOUND ON THE CABLE MANUFACTURER'S SPECIFICATIONS SHEETS.

b. BEFORE EXITING THE MAINTENANCE HOLE, HAND HOLE, PULLBOX, NOTE ON PAPER OR DIGITAL MEANS THE EXISTING AND NEW CABLE(S) LOCATION(S) AND ROUTE(S), AND PROVIDE A "BUTTERFLY" PRINT TO AHJ AND OWNER'S REPRESENTATIVE. LABEL THE INSTALLED MEDIA PER SPECIFICATIONS.

c. WITH DIRECTION OF OWNER OR OWNER'S REPRESENTATIVE, CHOOSE AND PROVE ALL CONDUITS BEFORE THE INSTALLATION OF THE MEDIA. MEASURE ALL PATHWAYS WITH MULE-TAPE PRIOR TO ORDERING MATERIAL. ALL LABOR AND MATERIAL COSTS ASSOCIATED WITH DISCREPANCIES BETWEEN DRAWINGS AND VERIFIABLE SITE CONDITIONS SHALL BE BORNE BY CONTRACTOR. COORDINATE WITH THE ELECTRICAL OR GENERAL CONTRACTOR (EC OR GC), IF CONDUITS ARE PLUGGED OR MISSING PULL ROPE.

d. TRAIL ALL BACKBONE MEDIA (I.E. COPPER, FIBER OR INNERDUCT) WITH A 3/8" YELLOW POLY-NYLON ROPE, LABEL THE ROPE, AND TIE OFF EITHER END, FOR FUTURE INSTALLATIONS.

e. PROVIDE AND INSTALL ALL HARDWARE NECESSARY TO SUPPORT THE CABLING TO THE WALLS OF THE MAINTENANCE HOLE, HAND HOLES, PULLBOX. (IF IT DOES NOT ALREADY EXIST) THIS HARDWARE IS TO BE CONSTRUCTED FOR THE AREA IT IS TO BE INSTALLED AND DESIGNED FOR THE PURPOSE INTENDED FOR ITS USE.

f. SCS AND/OR LV CONTRACTOR TO PROVIDE EXPANSION PLUGS IN ALL DUCTS/CONDUITS ENTERING THE BUILDING. SEAL ALL UNUSED DUCTS/CONDUITS WITH PLUGS THAT ALLOW THE PULL-STRING TO BE TIED OFF ON THE INSIDE.

6. INSIDE PLANT (ISP) PATHWAYS CAN BE BROKEN DOWN INTO THE FOLLOWING ITEMS, HOLLOW WALL PENETRATION, MEMBRANE PENETRATION, ACCESSIBLE CEILING (I.E. "J" HOOKS), AND CONDUIT. 7. CABLE RACEWAYS AND CONDUITS SHALL NOT BE FILLED GREATER THAN THE CEC 2017, ARTICLE 725 AND BICSI RECOMMENDED FILL FOR THE PARTICULAR RACEWAY OR CONDUIT SIZE FOR CLASS 2/3 WIRE/CABLE.

a. CONDUIT AND PATHWAY ROUTING SHOWN FOR THE SCS AND LV SYSTEMS ARE STRICTLY DIAGRAMMATICAL FOR THE PURPOSE OF THE BID TO ILLUSTRATE GENERAL METHODOLOGY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE BEST MEANS & METHODS FOR SCS & TECHNOLOGY CONDUIT AND PATHWAY INSTALLATION. ADDITIONALLY IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE INSTALLATION PLAN WITH THE OWNERS REPRESENTATIVE AND ALL TRADES PRIOR TO INSTALLATION. REFER TO PLANS AND GENERAL ELECTRICAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

b. CONDUIT PATHWAYS SHALL BE SUPPLIED BY THE ELECTRICAL OR GENERAL CONTRACTOR AS PER THE DRAWINGS, OTHER CONDUITS (IF ANY) MAY NEED TO BE COORDINATED WITH THE EC AND/OR GC OF THE PROJECT.

c. NO CABLE IS TO BE PULLED THROUGH A CONDUIT L-BEND "LB" (CONDULETS).

d. ALL EXPOSED CONDUIT AND HARDWARE SHALL BE PAINTED TO MATCH SURROUNDING SURFACES. CONTRACT DISTRICT REPRESENTATIVE FOR PAINT COLORS.

e. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.

f. TERMINATE CONDUIT STUBS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2"-3" ABOVE THE FLOOR SURFACE.

g. INSTALL BUSHINGS AND BELL ENDS AS REQUIRED ON ALL CONDUITS.

h. FLEX CONDUIT IS UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND/OR IF APPROVED IN WRITING BY THE ENGINEER.

i. ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE ELECTRICAL SPECIFICATIONS, DETAILS AND PLANS FOR ADDITIONAL CONDUIT SEALING REQUIREMENTS.

j. PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.

k. REINSTALL PULL-STRINGS IN ALL SCS AND LV ISP PATHWAYS AFTER USE TO FACILITATE FUTURE ADDITION OF CABLES.

l. IT IS THE SCS AND/OR LV CONTRACTOR'S RESPONSIBILITY TO REPORT ANY UNUSABLE OR INADEQUATE CONDUIT RUNS TO THE OWNER PRIOR TO PULLING ANY CABLE.

m. PULL BOXES ARE NOT TO BE USED IN LIEU OF A BEND, AND THE CONDUIT SHALL EXIT A PULLBOX ON THE WALL OPPOSITE THE WALL ENTERED.

n. CONDUITS SHALL; • CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.) • CONTAIN NO MORE THAN (2) 90° BENDS OR (1) REVERSE BEND WITHOUT INSTALLING A PULLBOX SIZED PER STANDARDS & CODE. • SPLIT CONDUITS IN PLACE OF PULLBOXES ARE UNACCEPTABLE.

o. CONDUIT BEND RADIUS SHALL BE;
- A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2" IN DIAMETER OR LESS.
- A MINIMUM OF10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2" IN DIAMETER.

p. POWER SEPARATION:
- THE CONTRACTOR SHALL NOT PLACE ANY DISTRIBUTION CABLING ALONGSIDE POWER LINES, OR SHARE THE SAME CONDUIT, CHANNEL OR SLEEVE WITH ELECTRICAL APPARATUS. AT NO POINT SHALL THE COMMUNICATIONS CABLES BE TIED TO POWER CABLES OR OTHER BUILDING SERVICES. STATION CABLES AND TIE CABLES INSTALLED WITHIN CEILING SPACES SHALL BE ROUTED THROUGH THESE SPACES AT RIGHT ANGLES TO ELECTRICAL POWER CIRCUITS.
- AVOID ELECTROMAGNETIC INTERFERENCE (EMI) BY MAINTAINING ADEQUATE PHYSICAL SEPARATION BETWEEN TECHNOLOGY CABLING AND POSSIBLE SOURCES SUCH AS, BUT NOT LIMITED TO, ELECTRIC MOTORS, ELECTRIC PENCIL SHARPENERS, TRANSFORMERS, FLUORESCENT LIGHTS THAT SHARE DISTRIBUTION SPACE WITH TELECOMMUNICATIONS CABLING, COPIERS THAT SHARE WORK AREA SPACE WITH LINE CORDS AND TERMINALS, LARGE FAX MACHINES AND POWER CORDS THAT SUPPORTS SUCH EQUIPMENT.

PROJECT CODES AND STANDARDS:

PARTIAL LIST OF APPLICABLE CODES AND STANDARDS EFFECTIVE : JANUARY 1, 2023

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)

2022 CALIFORNIA BUILDING CODE (CBC)

2022 CALIFORNIA ELECTRICAL CODE (CEC)

2022 CALIFORNIA ENERGY CODE

2022 CALIFORNIA FIRE CODE (CFC)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

2022 CALIFORNIA REFERENCED STANDARDS CODE

2022 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE, NATIONAL FIRE PROTECTION ASSOCIATION

TECHNOLOGY DESIGN TEAM

DESINGER:
NAME:---------- JOSIAH ZAMORA, CTS
WORK:--------- (916) 721-2938
MOBILE:------- (916) 996-3942
EMAIL:---------- jzamora@lpengineers.com

DESIGNER / SUPPORT:
NAME:---------- RUBELINO LOZANO
PHONE:-------- (916) 771-0778 x4026
EMAIL:---------- rlozano@lpengineers.com

CONTRACTOR SUBMITTALS:

(SHOP DRAWINGS / PRODUCT SUBMITTALS / QUALIFICATIONS)

1. ORDERING AND INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL THE FOLLOWING:

a. CONTRACTOR FURNISHED SHOP DRAWINGS (SEE BELOW FOR LISTED SHOP DRAWING REQUIREMENTS)

b. PRODUCT SUBMITTAL DOCUMENTS

c. APPLICABLE TRADES QUALIFICATION CERTIFICATIONS HAVE BEEN APPROVED BY THE SYSTEMS ENGINEER AND/OR ARCHITECT AND IF (A. APPLICABLE, APPROVED BY THE DIVISION OF THE STATE ARCHITECT).

2. ANY DESIGN AND/OR INSTALLATION DISCREPANCIES/CHANGE ORDERS/REWORK (INCLUDING LABOR AND MATERIALS) INCURRED BEFORE OR AFTER CONTRACTOR FURNISHED SHOP DRAWINGS HAVE BEEN APPROVED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR INSTALLATION SHOP DRAWINGS

1. IT SHALL BE UNDERSTOOD THAT THE DRAWINGS, DETAILS, AND ONE-LINES PROVIDED WITH THE DESIGN PACKAGE ARE DIAGRAMMATIC. DATA PRESENTED ON DESIGN DRAWINGS ARE AS ACCURATE AS PRELIMINARY SURVEYS AND PLANNING CAN DETERMINE UNTIL FINAL EQUIPMENT SELECTION IS MADE. ACCURACY IS NOT GUARANTEED AND FIELD VERIFICATION, OF ALL DIMENSIONS, ROUTING, ETC., BY THE CONTRACTOR IS REQUIRED.

2. DRAWINGS ARE PROVIDED TO SHOW THE INTENT OF THE DESIGN AND SPECIFICATION AND TO ASSIST THE CONTRACTOR IN SUBMITTING A BID. CONTRACTOR IS DIRECTED TO MAKE FIELD SURVEYS AS PART OF HIS WORK PRIOR TO SUBMITTING SYSTEM LAYOUT DRAWINGS (SHOP DRAWINGS). THE CONTRACTOR SHALL MAKE ALLOWANCE IN THE PROPOSAL TO COVER WHATEVER WORK IS REQUIRED TO COMPLY WITH THE INTENT OF THE DESIGN AND PROVIDE A FULLY FUNCTIONING COMPLETE, OPERABLE, AND INTEGRATED SYSTEM.

3. IN CASE OF DOUBT OF WORK INTENDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST INSTRUCTIONS FROM THE ENGINEER OR OWNER PRIOR TO BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE, OPERABLE, AND INTEGRATED FUNCTIONING SYSTEM.

4. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED CONTRACTOR FURNISHED SHOP DRAWINGS (IN AUTOCAD 2010/ OR SIMILAR PROFESSIONAL DRAWING FORMAT) AND PRODUCT SUBMITTALS HAVE BEEN APPROVED BY THE DESIGNER AND/OR ARCHITECT AND IF (A. APPLICABLE, APPROVED BY THE DIVISION OF THE STATE ARCHITECT).

5. ANY AND ALL DESIGN AND/OR INSTALLATION DISCREPANCIES, CHANGE ORDERS, (INCLUDING LABOR, MATERIALS, AND SHIPPING) INCURRED WITHOUT CONTRACTOR SHOP DRAWINGS OR AFTER CONTRACTOR SHOP DRAWINGS HAVE BEEN APPROVED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

6. ANY WORK PERFORMED WITHOUT APPROVED CONTRACTOR FURNISHED SHOP DRAWINGS AND SUBMITTALS SHALL NOT BE ALLOWED. IF WORK PERFORMED PRIOR TO APPROVE SHOP DRAWINGS, CONTRACTOR WILL DO SO AT THEIR OWN RISK.

7. ANY PRODUCTS THAT HAVE DEVIATED FROM THE SPECIFICATION OR DRAWINGS SHALL BE FLAGGED AS "SUBSTITUTION REQUEST".

TECHNOLOGY GENERAL NOTES:

1. ALL STRUCTURED CABLING SYSTEM (SCS) & LOW VOLTAGE (LV) CABLING USED THROUGHOUT THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS AS OUTLINED IN THE STANDARDS, CODES AND LOCAL REGULATIONS FOR THE FOLLOWING: ANSI/TIA-568-C, ANSI/TIA-569-D, ANSI/TIA-606-B, ANSI/TIA-607-B, BICSI TDMM (CURRENT VERSION), CEC ARTICLE 90, ARTICLE 300, CEC ARTICLE 645, CEC ARTICLE 646, CEC ARTICLE 725, CEC ARTICLE 760, CEC ARTICLE 770, CEC ARTICLE 800, CEC ARTICLE 830. THE SCS & TECHNOLOGY SYSTEM(S) MUST MEET ALL LOCAL AND OTHER PREVAILING CODES.

2. ALL SCS & LV CABLING SHALL BEAR UL LISTED TYPE CMP (PLENUM RATED) AND/OR CM/G (GENERAL PURPOSE) AND/OR CMR (RISER RATED). ALL FIBER OPTIC CABLING SHALL BEAR OFNP (PLENUM RATED) AND/OR OFNR (RISER RATED) AND/OR OFN/G (GENERAL PURPOSE). THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATELY RATED CABLE FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.

3. ALL INSTALLATION SHALL BE DONE IN CONFORMANCE WITH ANSI/TIA-568-C STANDARDS AND MANUFACTURERS INSTALLATION GUIDELINES. THE CONTRACTOR SHALL ENSURE THAT THE CABLE'S MINIMUM BEND RADIUS AND, MAXIMUM PULLING TENSIONS OF THE SPECIFIED DISTRIBUTION CABLES ARE NOT EXCEEDED. THE CABLE BENDS MUST MAINTAIN THE PROPER RADIUS DURING THE PLACEMENT OF THE FACILITIES. FAILURE TO FOLLOW THE APPROPRIATE GUIDELINES WILL REQUIRE THE CONTRACTOR TO PROVIDE, IN A TIMELY FASHION, ANY ADDITIONAL MATERIAL AND LABOR NECESSARY TO PROPERLY RECTIFY THE SITUATION TO THE SATISFACTION AND WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE. THIS SHALL ALSO APPLY TO ANY AND ALL DAMAGES SUSTAINED TO THE CABLES BY THE CONTRACTOR DURING THE IMPLEMENTATION.

4. ALL SCS AND/OR LV INSTALLATIONS SHALL BE PERFORMED BY QUALIFIED TECHNICIANS FOR THAT SYSTEM. THE LABOR EMPLOYED BY THE CONTRACTOR SHALL BE REGULARLY EMPLOYED IN THE INSTALLATION AND REPAIR OF SCS AND/OR LV SYSTEMS AND SHALL BE ACCEPTABLE TO THE OWNERS REPRESENTATIVE TO ENGAGE IN THE INSTALLATION AND SERVICE OF THIS SYSTEM.

5. THE MDF AND IDF SPACES ARE DESCRIBED BELOW, AND ENCOMPASS THE AREAS THE COMMUNICATIONS CABLING EXISTS IN. THESE AREAS INCLUDE (BUT NOT LIMITED TO) THE BACKBOARDS, CABINETS, RACKS, FRAMES, LADDER RACKS, TERMINATION FIELDS, AND PATCH CORDS. (WALL AND RACK TYPES FOR COPPER AND FIBER). THE SCS CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE STANDARDS, CODES AND LOCAL REGULATIONS FOR THESE SPACES, (E.G. ANSI/TIA-568-C, ANSI/TIA-569-D, ANSI/TIA-606-B, ANSI/TIA-607-B , BICSI TDMM (CURRENT VERSION), CEC ARTICLE 90, ARTICLE 300, CEC ARTICLE 645, CEC ARTICLE 646, CEC ARTICLE 725, CEC ARTICLE 770, CEC ARTICLE 800, CEC ARTICLE 830.

6. THE WIRING OF THE SYSTEM SHALL BE EXECUTED IN ACCORDANCE WITH THE DRAWINGS AND THE EQUIPMENT MANUFACTURER'S WIRING DIAGRAMS. SHOULD ANY VARIATIONS IN THESE REQUIREMENTS OCCUR, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE BEFORE MAKING ANY CHANGES. IT SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER - AUTHORIZED INSTALLER OF THE APPROVED EQUIPMENT TO INSTALL THE EQUIPMENT AND GUARANTEE THE SYSTEM TO OPERATE AS PER PLANS AND SPECIFICATIONS.

7. ALL MATERIALS SHALL BE NEW. NO USED OR RE-MANUFACTURED PARTS OR COMPONENTS SHALL BE ACCEPTED.

8. CABLE STORAGE: THE CONTRACTOR SHALL NOT ROLL OR STORE CABLE REELS WITHOUT AN APPROPRIATE UNDERLAY AND THE PRIOR WRITTEN APPROVAL OF OWNERS REPRESENTATIVE.

9. SPECIAL EQUIPMENT AND TOOLS: IN ORDER TO ENSURE THE LEAST AMOUNT OF CABLE UNTWISTING, IT IS REQUIRED THAT ALL CABLES SHALL BE STRIPPED USING A CABLE MANUFACTURER'S RECOGNIZED SPECIAL TOOL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH ANY SPECIAL INSTALLATION EQUIPMENT OR TOOLS NECESSARY TO PROPERLY COMPLETE THE SYSTEM. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, TOOLS FOR TERMINATING CABLES, TESTING AND SPLICING EQUIPMENT FOR COPPER/FIBER CABLES, COMMUNICATION DEVICES, JACK STANDS FOR CABLE REELS, OR CABLE WINCHES.

10. UNDER NO CIRCUMSTANCE ARE "CHANNEL LOCKS" OR OTHER PLIERS NOT DESIGNED BY THE SCS MANUFACTURE TO BE USED TO TERMINATE WAO JACKS.

TECHNOLOGY SHEET INDEX

SHEET NO.	SHEET TITLE
T0.01	TECHNOLOGY ABBREVIATIONS, AND NOTES
T0.02	TECHNOLOGY SYMBOL AND LEGEND
T0.03	TECHNOLOGY DETAILS
T1.00	TECHNOLOGY SITE PLAN
T3.10	TECHNOLOGY FLOOR PLAN – CLASSROOM BLDG A
T3.11	TECHNOLOGY FLOOR PLAN – CLASSROOM BLDG B
T3.12	TECHNOLOGY FLOOR PLAN – CLASSROOM BLDG C
T3.13	TECHNOLOGY FLOOR PLAN – CLASSROOM BLDG D
T3.14	TECHNOLOGY FLOOR PLAN – MULTIPURPOSE BLDG
T3.15	TECHNOLOGY FLOOR PLAN – KINDER–ADMIN BLDG
T4.10	TECHNOLOGY RISER DIAGRAM

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRIAN P WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

DATE SIGNED: 04/24/2023

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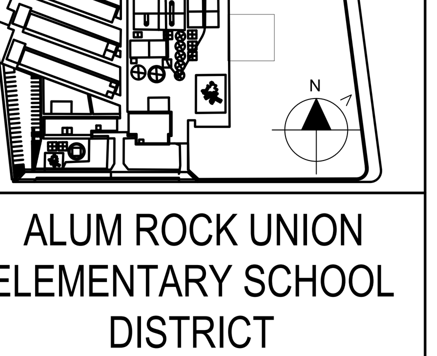
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

TECHNOLOGY ABBREVIATION AND NOTES

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T0.01
Drawn: RT (LPCE)	Checked: DPCE

SYMBOL KEYNOTES AND IDENTIFIERS

SYMBOL	DESCRIPTIONS
X	NUMBERED SHEET NOTE. APPLIES TO SHEET ON WHICH NOTE IS FOUND ONLY.
DETAIL NUMBER / X / X.XX / SHEET NUMBER	ELEVATION REFERENCE - REFER TO ELEVATION AS NOTED IN REFERENCE CALL-OUT
DETAIL NUMBER / X / X.XX / SHEET NUMBER	SECTION REFERENCE - REFER TO SECTION AS NOTED IN REFERENCE CALL-OUT
DETAIL NUMBER / X / X.XX / SHEET NUMBER	DETAIL REFERENCE OR CALL-OUT

TECHNOLOGY SYMBOL LEGEND:

ALL NOTES ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS

MARK	SYMBOL	DESCRIPTION	BACK BOX	PLASTER RING	MOUNTING HEIGHT	CONDUIT	MANUFACTURER	PART NUMBER / MODEL	MAX. LOAD	INSTALLATION NOTES
1	MDF	MAIN DISTRIBUTION FRAME	N/A	N/A	V.I.F.	N/A	EXISTING	EXISTING	N/A	N/A
2	IDF	INTERMEDIATE DISTRIBUTION FRAME	N/A	N/A	V.I.F.	N/A	EXISTING	EXISTING	N/A	N/A
3	2 WP BMS	WEATHER PROOF DATA OUTLET	5" SQ., 2-1/8" DEEP	2-DEVICE	+18" TO BOTT.	1 EA. 1"C	LEVITON	CAT6A: 11140627 JACK: 6110G-R*6	N/A	N/A
4	2 LCP	DATA OUTLET	5" SQ., 2-1/8" DEEP	2-DEVICE	+16" TO BOTT.	1 EA. 1"C	LEVITON	CAT6A: 11140627 JACK: 6110G-R*6	N/A	N/A
5	PB	12X12X4 PULL BOX	N/A	N/A	N/A	N/A	LEVITON	N/A	N/A	N/A
6	UP ○ ● DOWN	CONDUIT UP / DOWN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	## / ##	TRANSITION ELEVATION MARK UP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	———	CONDUIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTES:
1. USE EXTENSION RINGS IF NEEDED, ON ALL LOCATIONS.
2. REFERENCE EIA/TIA STANDARDS.
3. ROUTE CONDUIT INWALL TO NEAREST TO ACCESSIBLE CEILING SPACES.

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
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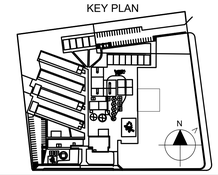
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DRAWING STATUS

	DATE
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TECHNOLOGY SYMBOL AND LEGEND

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T0.02
Drawn / Checked	
RE (LPCE) / DRCE	

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

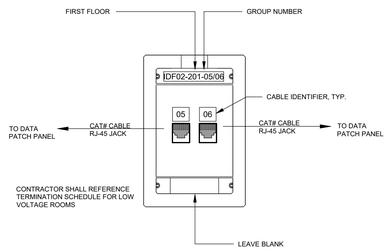
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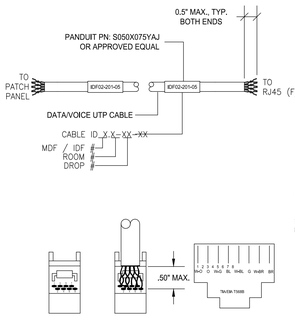
NOT USED

NOT USED

2-PORT RJ45 JACK FACE PLATE END POINT

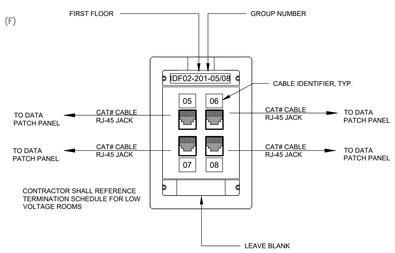


DATA 2-PORT WORKSTATION FACE PLATE & JACK LAYOUT

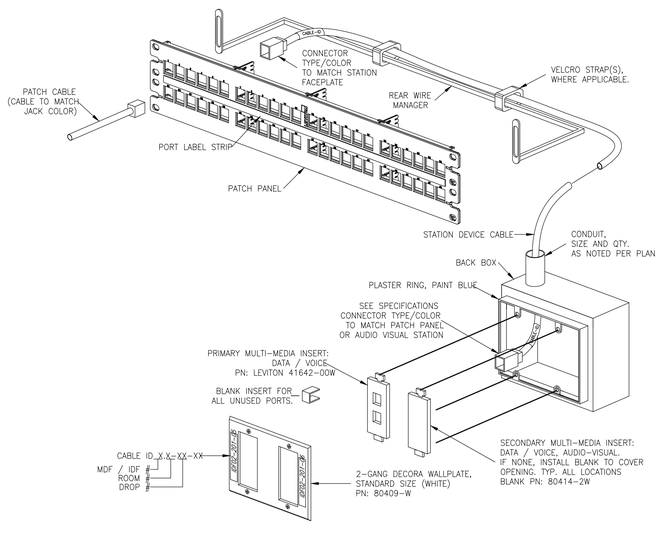


DATA/VOICE CABLE LABELING - AT JACK AND PATCH PANEL

4-PORT RJ45 JACK FACE PLATE END POINT



DATA 4-PORT WORKSTATION FACE PLATE & JACK LAYOUT



PATCH PANEL CONNECTION, 8P8C (RJ45) TERMINATION AND LABELING

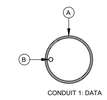
SCALE: EDIT — 8

(A) (1) EA. 1" CONDUIT
(B) 1/2" NYLON MULE STRING, PN: NEPTCO WP900P

1

NOTE: AT ALL GROUND BOX, PULL BOX AND JUNCTION BOX LOCATIONS, THE ENDS OF CONDUITS SHALL BE PAINTED AND LABELED WITH A NUMBER. (SEE DETAIL FOR COLOR AND NUMBER).

BACKBONE/HORIZONTAL CONDUITS



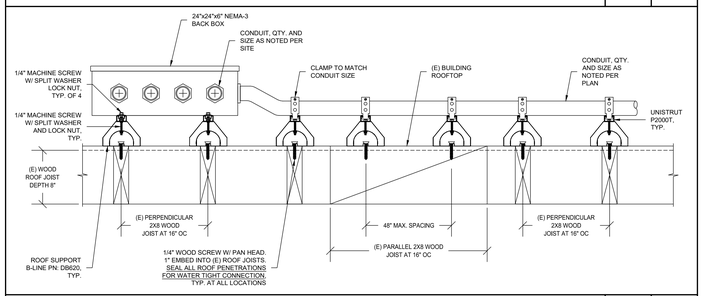
CONDUIT 1: DATA

CONDUIT FILL CHART 40% FILL RATIO MAXIMUM	
CONDUIT DIA.	FILL RATIO (0.250" DIA.)
1"	6-CABLES
1-1/4"	10-CABLES
2"	26-CABLES
4"	102-CABLES

NOTE: CONTRACTOR SHALL BE REQUIRED TO UPSIZE CONDUIT AND/OR QTY AS NOTED PER FILL RATIO CABLE CAPACITY.

TECHNOLOGY CONDUIT LAYOUT, BACKBONE/HORIZONTAL PATHWAY

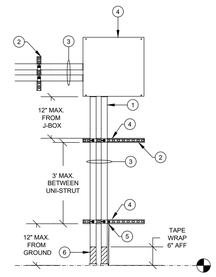
SCALE: N.T.S. — 1



TECHNOLOGY CONDUIT AND BACK BOX ON (E) BUILDING ROOFTOP

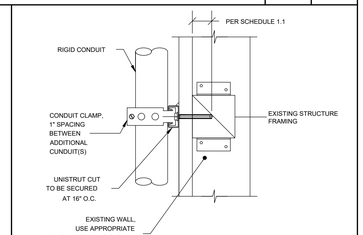
SCALE: N.T.S. — 2

(1) INSTALL CONDUIT AS CLOSE AS POSSIBLE AND TO ONE SIDE OF J-BOX TO ACCOMODATE FUTURE INSTALLATIONS
(2) UNI-STRUT TO BE CUT THE SAME LENGTH AS J-BOX
(3) RIGID CONDUIT
(4) CAULKING ACCORDING TO FIRE RATING-TYPICAL
(5) 10 AWG WIRE OR METAL TRACING TAPE PLACED ON TOP OF CONDUITS AND CONTINUOUS THROUGHOUT ENTIRE TRENCH LENGTH AND TERMINATING ON RISER UNISTRUT OR GROUNDING BAR IN GROUNDBOX.
(6) FLEX BETWEEN RISER AND GROUND CONDUIT.



EXTERIOR PULL BOX W/ CONDUIT RISER

SCALE: N.T.S. — 6



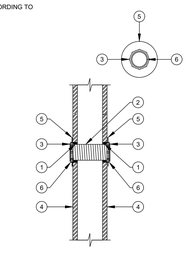
SCHEDULE 1.1

WALL TYPE	ANCHOR/FASTERNER	MIN. EMBED
WOOD	3/8" HEX LAG SCREW	2"

CONDUIT SUPPORT, VERTICAL (WOOD)

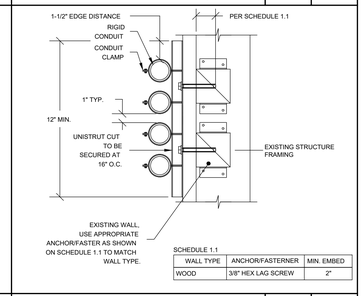
SCALE: N.T.S. — 3

(1) DRAFT STOP OR FIRE CAULK ACCORDING TO WALL PENETRATION DETAILS
(2) THREADED, RIGID, OR IMC CONDUIT
(3) SCREW ON BUSHING
(4) WALL
(5) REDUCING WASHER OR PLATE
(6) SCREW ON LOCKING RINGS FRONT & BACK (TYP.)



CONDUIT SLEEVE PENETRATION

SCALE: N.T.S. — 7



SCHEDULE 1.1

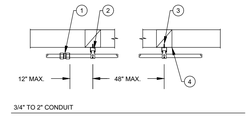
WALL TYPE	ANCHOR/FASTERNER	MIN. EMBED
WOOD	3/8" HEX LAG SCREW	2"

MULTIPLE-CONDUIT SUPPORT, VERTICAL (WOOD)

SCALE: N.T.S. — 4

(1) WEATHERPROOF COUPLING DEVICE BOX OR JUNCTION, TYP.
(2) UNISTRUT P1000T, TYP.
(3) 1/4" DIA. WOOD SCREW W/ HEX HEAD AND WASHER. 1-1/4" MIN. EMBED, 2-MIN. PER UNISTRUT CHANNEL
(4) EXISTING STRUCTURE FRAMING

UNISTRUT UNIVERSAL PIPE CLAMP FOR 1/2" TO 2" CONDUIT
- 1/2" - P1211 (16 GA)
- 3/4" - P1212 (16 GA)
- 1" - P1213 (16 GA)
- 1 1/4" - P1214 (14 GA)
- 1 1/2" - P1215 (14 GA)
- 2" - P1217 (14 GA)



CONDUIT STRAP SPACING (WOOD)

SCALE: N.T.S. — 5

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Sacramento, California 95811
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www.StudioW-Architects.com

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MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
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Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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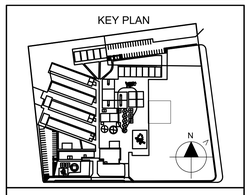
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



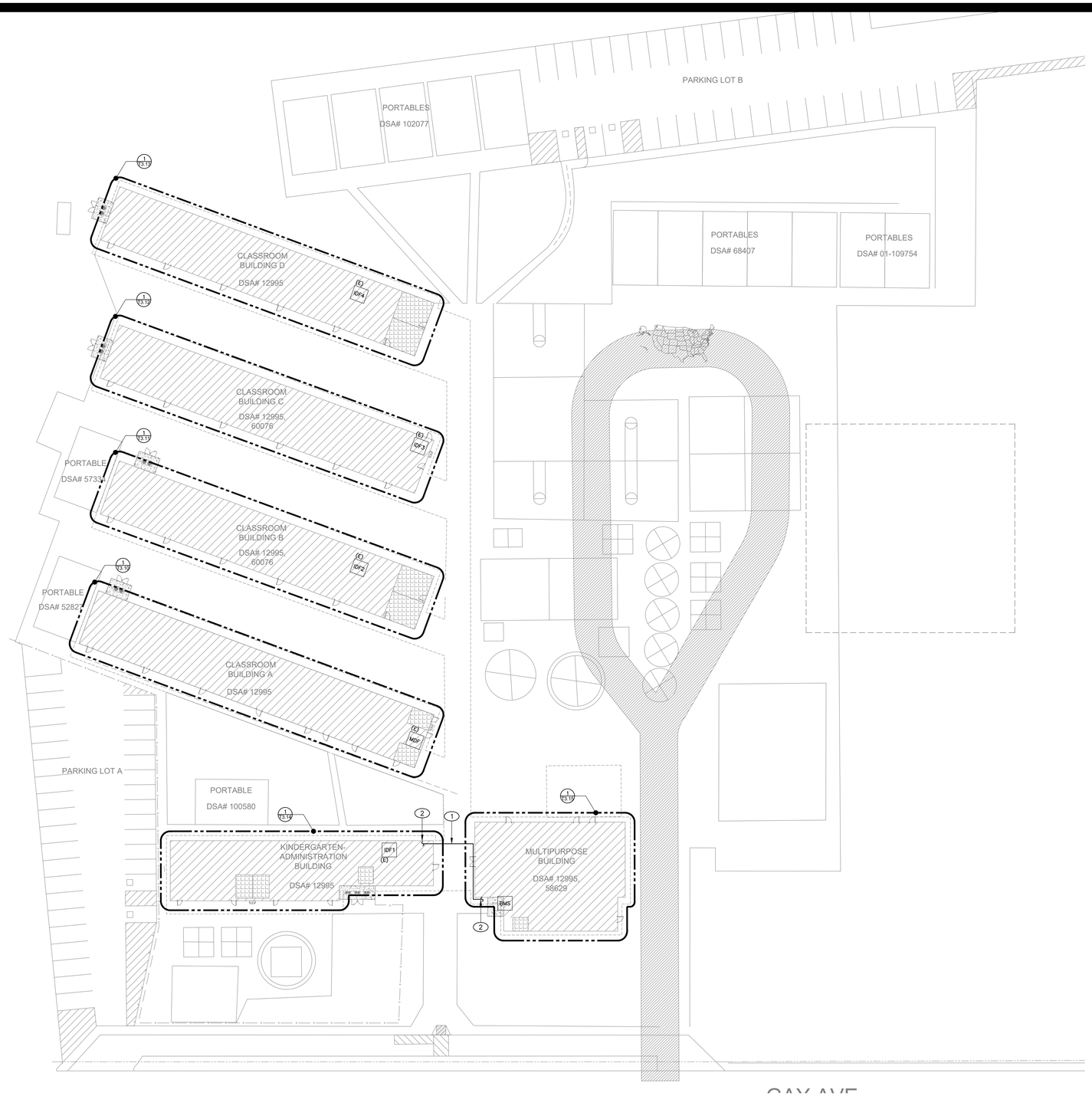
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TECHNOLOGY DETAILS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T0.03
Drawn: RE (LPCE)	Checked: DRCE



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7. ALL CONDUIT SHALL BE ROUTED AWAY AND/OR AROUND THE WINDOW.

KEY NOTES

(1) PROVIDE NEW (1) 1" CONDUIT FROM THE NEW BMS DATA DROP TO EXISTING IDF.

(2) TRANSITION CONDUIT TO ABOVE CANOPY TO THE ADMIN BUILDING. FOLLOW THE EXISTING TECHNOLOGY CONDUIT PATHWAY ABOVE THE CANOPY.

TECHNOLOGY SITE PLAN 1 (1" = 25')

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1930 H St.
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[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
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p 916-771-0778
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Job #: 22-2173

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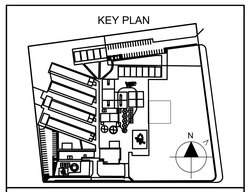
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



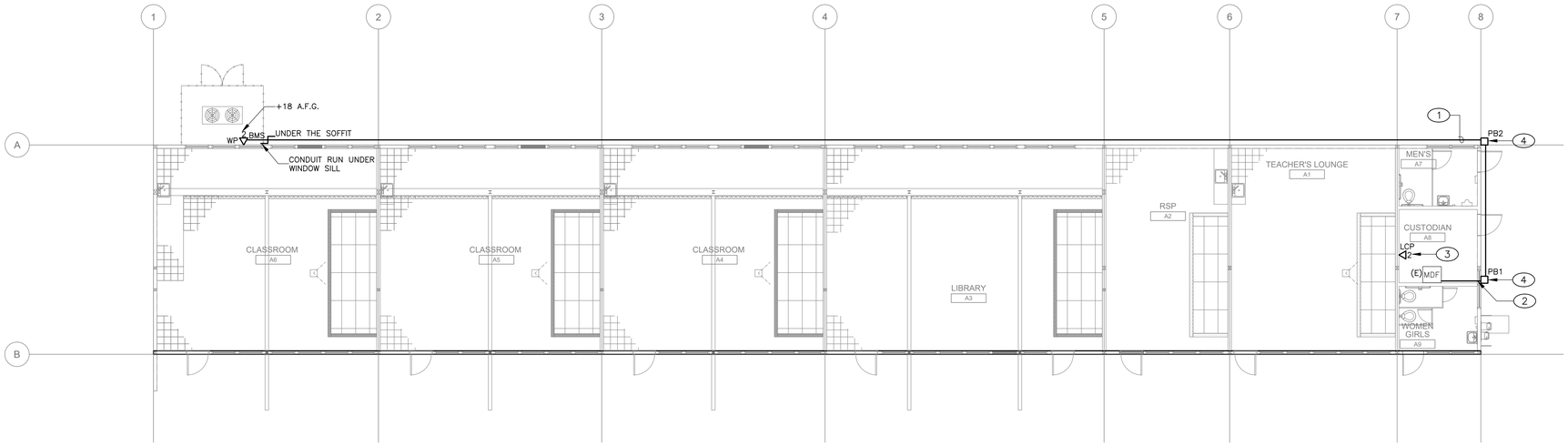
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SAN JOSE, CA 95127

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TECHNOLOGY SITE PLAN

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T1.00
Drawn / Checked	
RE (LPCE) / CPCE	



TECHNOLOGY FLOOR PLAN - BUILDING A | 1

1/8" = 1'-0"

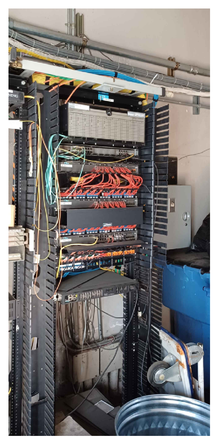
GENERAL NOTES

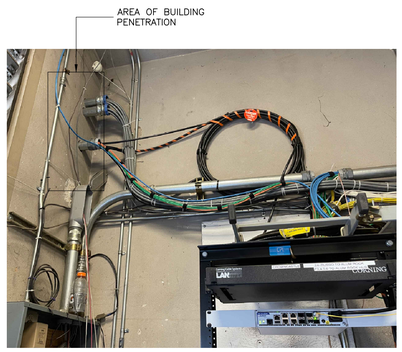
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7. ALL CONDUIT SHALL BE ROUTED AWAY AND/OR AROUND THE WINDOW.

KEY NOTES

1. PROVIDE NEW (1) 1" CONDUIT UNDER THE SOFFIT FROM THE NEW BMS DATA DROP TO EXISTING IDF.
2. NEW 1 EA. 2" CONDUIT SLEEVE. CAULK AND SEAL ALL SLEEVE ROUGH-IN GAPS, AND OPENINGS IN ACCORDANCE WITH REQUIRED FIRE RATINGS. AVOID PENETRATIONS THROUGH GLASS, ALL PENETRATIONS SHALL BE THROUGH THE WALL.
3. PROVIDE NEW DATA DROPS WITH IN 3FT OF LIGHTING CONTROL PANEL.
4. NEW 12"x12"x6" NEMA3R WALL MOUNTED PULL BOX WITH HINGED LOCKING KEYED LID. CAULK AND SEAL EXTERIOR PULL BOX AT ALL EXTERIOR WALL FINISH EDGES AND BOX FASTENER LOCATIONS FOR WATER-TIGHT CONNECTION.







MDF & SOFFIT SITE CONDITION | 2

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1930 H St.
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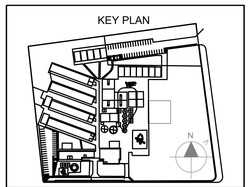
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



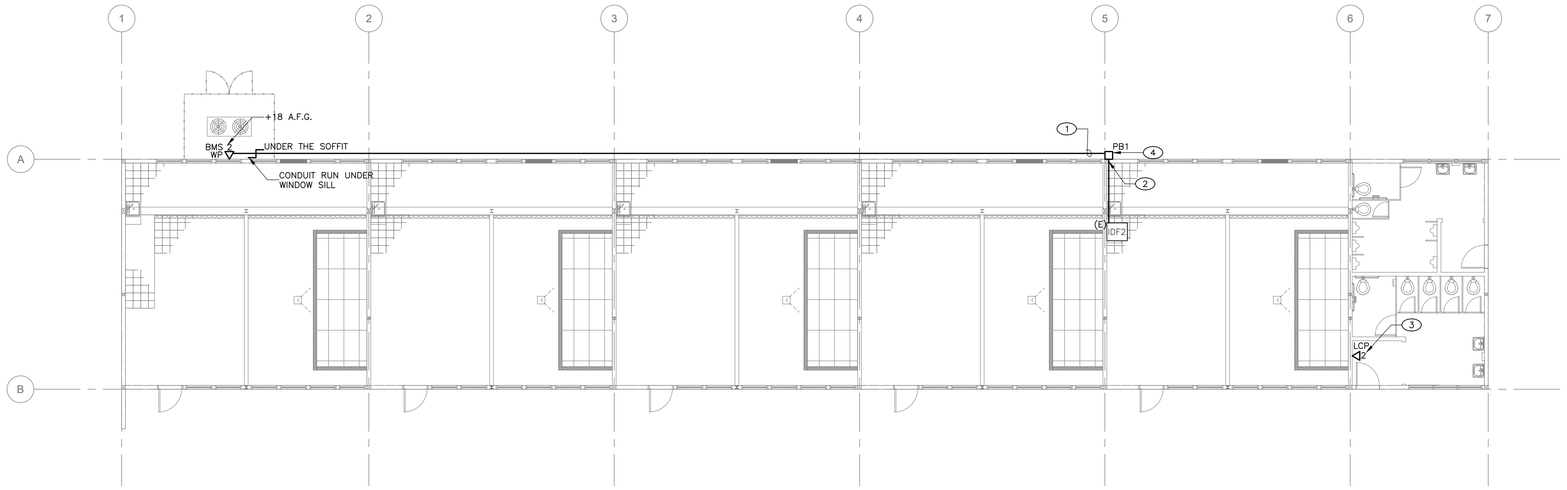
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TECHNOLOGY FLOOR PLAN BUILDING A

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T3.10
Drawn	Checked
RE (LPCE)	DRCE



TECHNOLOGY FLOOR PLAN - BUILDING B | **1**
1/8" = 1'-0"





IDF SITE CONDITION | **2**
NTS

GENERAL NOTES

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(3) PROVIDE NEW DATA DROPS WITH IN 3FT OF LIGHTING CONTROL PANEL.

(4) NEW 12"x12"x6" NEMA3R WALL MOUNTED PULL BOX WITH HINGED LOCKING KEYED LID. CAULK AND SEAL EXTERIOR PULL BOX AT ALL EXTERIOR WALL FINISH EDGES AND BOX FASTENER LOCATIONS FOR WATER-TIGHT CONNECTION.

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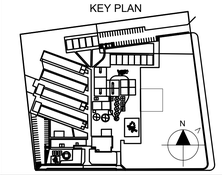
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



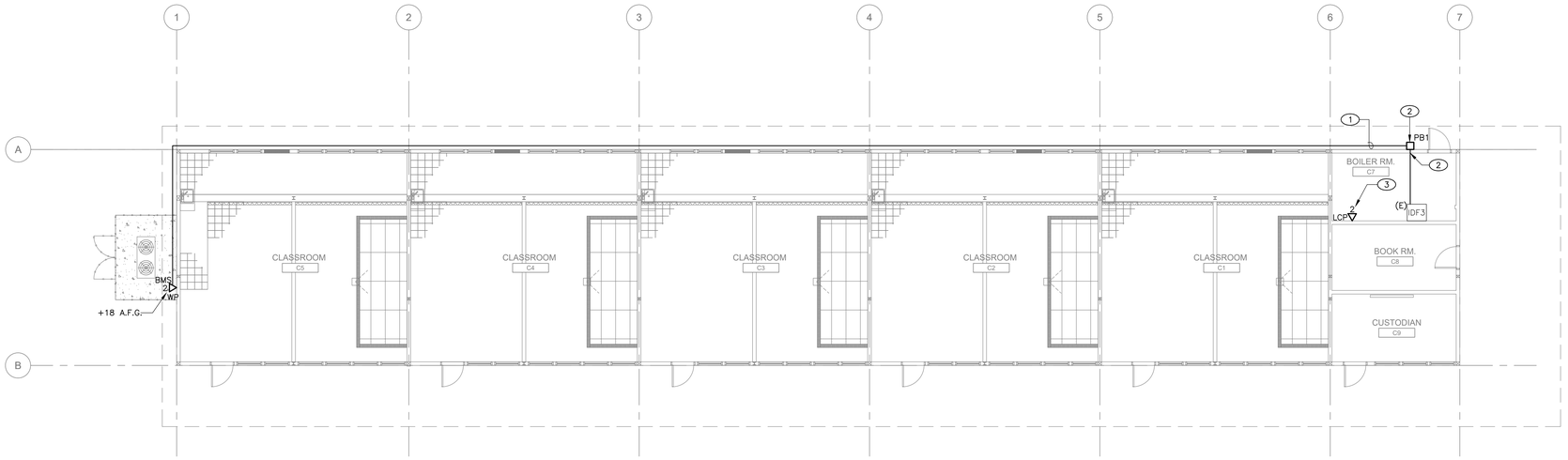
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TECHNOLOGY FLOOR PLAN BUILDING B

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T3.11
Drawn / Checked	
RE (LPCE) / DECE	



TECHNOLOGY FLOOR PLAN - BUILDING C | 1

1/8" = 1'-0"



IDF SITE CONDITION | 2

NTS

GENERAL NOTES

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DATE: 5/5/2023

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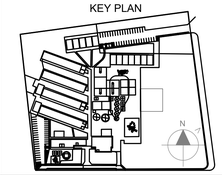
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NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



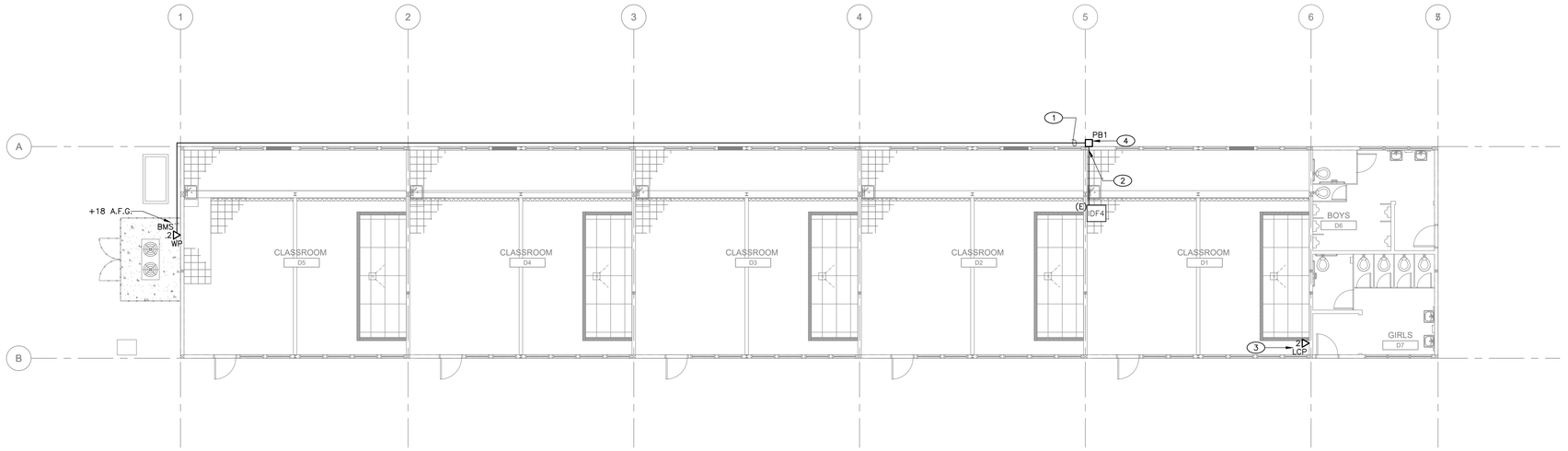
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SAN JOSE, CA 95127

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2851 GAY AVE.,
SAN JOSE, CA 95127

TECHNOLOGY FLOOR PLAN BUILDING C

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T3.12
Drawn	Checked
RE (LPCE)	DRCE



TECHNOLOGY FLOOR PLAN - BUILDING D | **1**
1/8" = 1'-0"



IDF SITE CONDITION | **2**
NTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS, PRIOR TO ANY WORKS, AND REPORT TO ENGINEERS ANY DISCREPANCIES.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING PLANS AND DIMENSIONS.
3. REFER TO ELECTRICAL DRAWINGS FOR ALL TECHNOLOGY POWER CIRCUIT REQUIREMENTS.
4. ALL EQUIPMENT SHOWN ON CONSTRUCTION DOCUMENTS IS TO BE NEW CONTRACTOR FURNISHED/CONTRACTOR INSTALLED UNLESS SPECIFIED ON DRAWINGS AND/OR SCHEDULES.
5. ALL EXPOSED CONDUITS SHALL BE PRIMED WHITE AND PAINTED TO MATCH THE SURROUNDING AREA.
6. NETWORK STATION CABLING SHALL BE TERMINATED IN THE PATCH PANEL(S) IN SEQUENTIAL ORDER OF ROOM NUMBER, DROP ID. CABLES SHALL BE MACHINE LABELED AT THE PATCH PANEL FACE, AND AT CATEGORY CABLE (BOTH ENDS AS SHOWN ON DETAILS/SPECIFICATIONS).
7. ALL CONDUIT SHALL BE ROUTED AWAY AND/OR AROUND THE WINDOW.

KEY NOTES

1. PROVIDE NEW (1) 1" CONDUIT UNDER THE SOFFIT FROM THE NEW BMS DATA DROP TO EXISTING IDF.
2. NEW 1 EA. 2" CONDUIT SLEEVE. CAULK AND SEAL ALL SLEEVE ROUGH-IN GAPS, AND OPENINGS IN ACCORDANCE WITH REQUIRED FIRE RATINGS.
3. PROVIDE NEW DATA DROPS WITH IN 3FT OF THE LIGHTING CONTROL PANEL.
4. NEW 12"x12"x6" NEMA3R WALL MOUNTED PULL BOX WITH HINGED LOCKING KEYED LID. CAULK AND SEAL EXTERIOR PULL BOX AT ALL EXTERIOR WALL FINISH EDGES AND BOX FASTENER LOCATIONS FOR WATER-TIGHT CONNECTION.

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STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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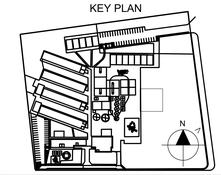
REVISION HISTORY

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○ CONSTRUCTION	

KEY PLAN



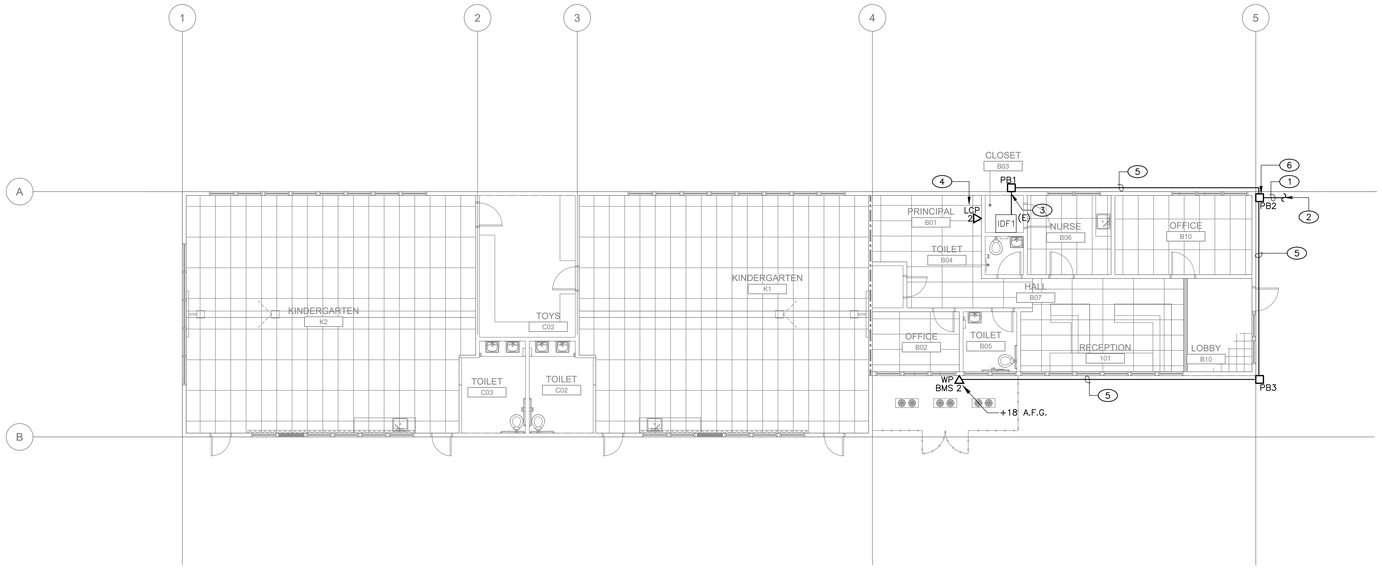
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CONSTRUCTION DOCUMENTS

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SAN JOSE, CA 95127

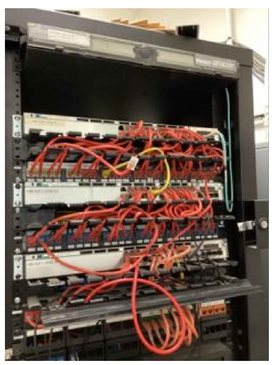
TECHNOLOGY FLOOR PLAN BUILDING D

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T3.13
Drawn	Checked
RE (LPCE)	DRCE



TECHNOLOGY FLOOR PLAN - ADMIN BUILDING | 1

1/8" = 1'-0"



IDF SITE CONDITION | 2

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6. NETWORK STATION CABLING SHALL BE TERMINATED IN THE PATCH PANEL(S) IN SEQUENTIAL ORDER OF ROOM NUMBER, DROP ID. CABLES SHALL BE MACHINE LABELED AT THE PATCH PANEL FACE, AND AT CATEGORY CABLE (BOTH ENDS AS SHOWN ON DETAILS/SPECIFICATIONS).
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KEY NOTES

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4. PROVIDE NEW DATA DROPS WITH IN 3FT OF THE LIGHTING CONTROL PANEL.
5. CONDUIT ROUTE AND SHALL BE MOUNTED TO THE UNDERSIDE OF THE SOFFIT.
6. NEW 12"x12"x6" NEMA3R WALL MOUNTED PULL BOX WITH HINGED LOCKING KEYED LID. CAULK AND SEAL EXTERIOR PULL BOX AT ALL EXTERIOR WALL FINISH EDGES AND BOX FASTENER LOCATIONS FOR WATER-TIGHT CONNECTION.

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Studio W Architects
1930 H St.
Sacramento, California 95811
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www.StudioW-Architects.com

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MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
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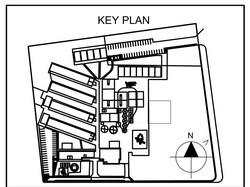
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KEY PLAN



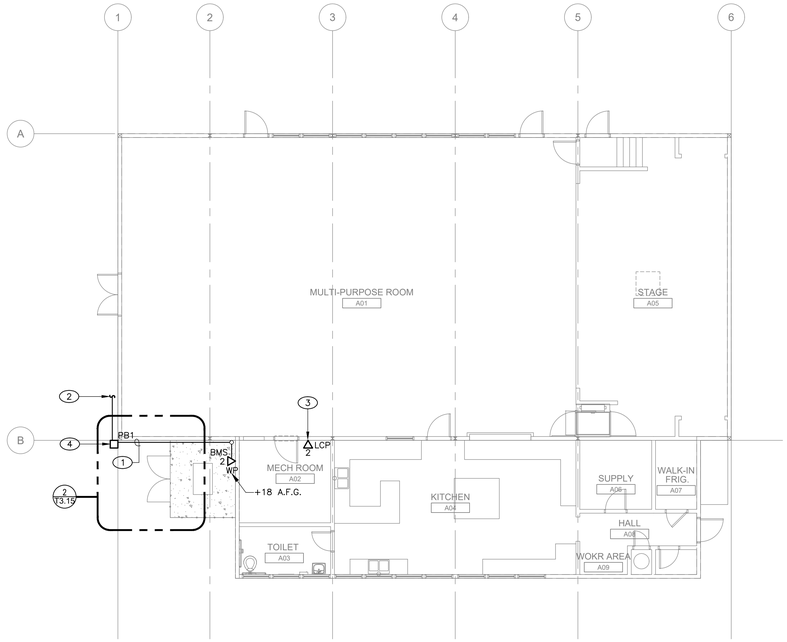
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TECHNOLOGY FLOOR PLAN ADMIN BUILDING

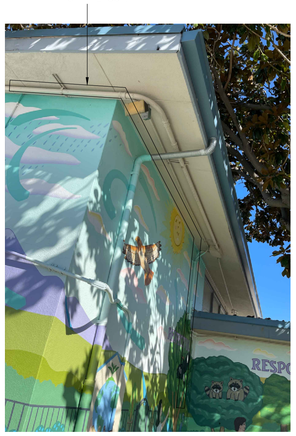
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TECHNOLOGY FLOOR PLAN - MULTIPURPOSE BUILDING | 1

1/8" = 1'-0"

CONDUIT ROUTE UNDERSIDE OF THE SOFFIT.



SITE CONDITION | 2

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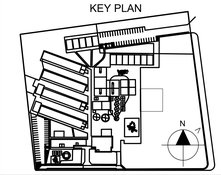
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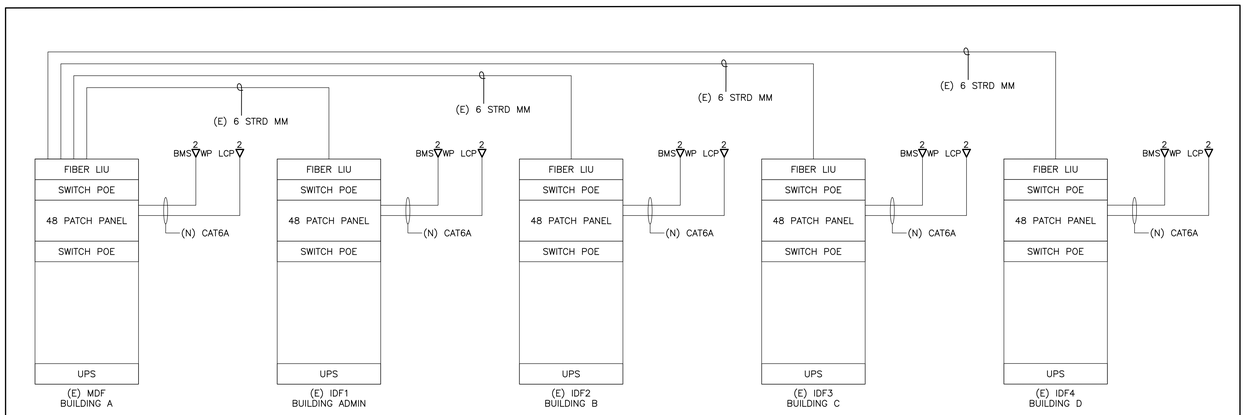
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TECHNOLOGY FLOOR PLAN MULTIPURPOSE

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TECHNOLOGY RISER DIAGRAM | NTS | 1

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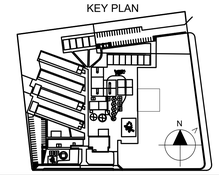
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TECHNOLOGY RISER DIAGRAM

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FIRE ALARM ABBREVIATIONS/SYMBOLS

SYMBOL	DESCRIPTIONS	SYMBOL	DESCRIPTIONS
A	ABOVE CEILING	PAP	PRE-ACTION PANEL
AFF	ABOVE FINISHED FLOOR	PIV	POST INDICATE VALVE
AHJ	AUTHORITY HAVING JURISDICTION	(R)	RELOCATE / RELOCATED
ALM	ALARM	(RC)	EXISTING TO REMOVE AND COVER
ANN	ANNUNCIATOR	(RD)	EXISTING DEVICE TO BE RELOCATED
BMS	BUILDING MANAGEMENT SYSTEM	(RL)	RELOCATED DEVICE
C	CONDUIT	(RR)	REMOVE EXISTING & REPLACE WITH NEW
CBC	CALIFORNIA BUILDING CODE	SCC	STATUS COMMAND CENTER
CEC	CALIFORNIA ELECTRICAL CODE	SLC	SIGNALING LINE CIRCUIT
CFC	CALIFORNIA FIRE CODE	SMK	SMOKE
CM	CEILING MOUNTED	SUPV	SUPERVISORY
CD	CANDELA RATING	TOS	TOP OF SHAFT
DET	DETECTOR	TRBL	TROUBLE
DGP	DATA GATHERING PANEL	TS	TAMPER SWITCH
(E)	EXISTING TO REMAIN	TYP	TYPICAL
EC	EMPTY CONDUIT	UNO	UNLESS NOTED OTHERWISE
EM	EMERGENCY	VCC	VOICE COMMAND CENTER
EMT	ELECTRICAL METALLIC TUBING	VT	VALVE TAMPER
EOL	END OF LINE	W	WATTAGE
EPO	EMERGENCY POWER OFF	W/	WITH
FAA	FIRE ALARM ANNUNCIATOR	W/O	WITHOUT
FACP	FIRE ALARM CONTROL PANEL	WF	WATERFLOW
FAPS	REMOTE FIRE ALARM POWER SUPPLY	WG	WIRE GUARD
FATC	FIRE ALARM TERMINAL CABINET	WP	WEATHERPROOF
FBO	FURNISHED BY OTHERS	(X)	REMOVE
FCC	FIRE COMMAND CENTER	XFMR	TRANSFORMER
FSD	FIRE SMOKE DAMPER		
FTR	FIRE ALARM TRANSPONDER		
H	HIGH HUMIDITY		
HT	HEIGHT		
HVAC	HEATING VENTILATION & AIR CONDITIONING		
IMS	INFORMATION MANAGEMENT SYSTEM		
MAX	MAXIMUM		
MIN	MINIMUM		
(N)	NEW		
N/A	NOT APPLICABLE		
NA	NOT AVIALABLE		
NAC	NOTIFICATION APPLIANCE CIRCUIT		
NDU	NETWORK DISPLAY UNIT		
NEC	NATIONAL ELECTRICAL CODE		
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
NIC	NOT IN CONTRACT		
NPU	NETWORK PROCESSING UNIT		
NTS	NOT IN CONTRACT		

FIRE ALARM GENERAL DEMO NOTES

1. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEY AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
2. EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE UNTIL CONSTRUCTION IS COMPLETED. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING FIRE ALARM SYSTEMS AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWNS. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE.
3. FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-LINE BUILDING. THE SCHOOL SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING SCHOOL HOURS AND WHENEVER THE CAMPUS IS OCCUPIED BY STUDENTS, TEACHERS AND STAFF. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER SCHOOL HOURS AND WHENEVER THE CAMPUS IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.
4. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE DEEM SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER. ALL FIRE ALARM MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.
5. WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE.
6. WHEREVER EXISTING DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE AND REPAIR ALL SURFACES.
7. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
8. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
   a. REMOVE ALL WIRE AND CABLE.
   b. REMOVE ALL DEVICES AND EQUIPMENT.
   c. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.
   d. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.

FIRE ALARM GENERAL NOTES

1. THE INTENT OF THESE DRAWINGS AND/OR SPECIFICATIONS DESCRIBE A COMPLETE, FUNCTIONING FIRE ALARM SYSTEM (INCLUDING VOICE EVACUATION PER SB575) WITH DEVICES, WIRING AND FIRE ALARM CONTROL PANEL TO MEET THE REQUIREMENTS OF NFPA 72 AND 2019 CALIFORNIAN FIRE CODE AND APPLICABLE LOCAL FIRE MARSHALL REGULATIONS AND REQUIREMENTS.
2. LOCATIONS OF EXISTING EQUIPMENT AND DEVICES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE AS-BUILT PLANS AND LIMITED SITE SURVEYS. CONTRACTOR SHALL THOROUGHLY INSPECT THE EXISTING SYSTEM AND SITE CONDITIONS BEFORE BID. ADVISE THE SCHOOL'S REPRESENTATIVE OF ALL CONDITIONS REQUIRING IMMEDIATE ATTENTION OR MIGHT CAUSE DIFFICULTIES THAT ARE NOT ADDRESSED, OR INFERRED TO, IN THE CONTRACT DRAWINGS AND SPECIFICATIONS PRIOR TO NEW CONSTRUCTION AND THE COMMENCEMENT OF THE GUARANTEE PERIOD.
3. CONTRACTOR SHALL SUBMIT ANY ALTERATIONS OF THE APPROVED CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR AND DSA FOR NEW APPROVALS. START INSTALLATION OF THE SYSTEM AFTER DETAILED PLANS, SPECIFICATIONS, NEW SHOP DRAWINGS AND SUBMITTALS HAS BEEN APPROVED BY DSA. CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY DELAY.
4. FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-LINE BUILDING. THE SCHOOL SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING SCHOOL HOURS AND WHENEVER THE CAMPUS IS OCCUPIED BY STUDENTS, TEACHERS AND STAFF. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER SCHOOL HOURS AND WHENEVER THE CAMPUS IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.
5. REQUEST FOR ADDITIONAL COSTS ASSOCIATED WITH RE-USE OF ANY EXISTING SYSTEM COMPONENT, INCLUDING CONDUITS, BOXES, CONTROL PANELS, ETC. WILL NOT BE CONSIDERED.
6. NO KNOWN EXISTING CEILING OR ATTIC SPACE IN ROOMS OR AREA WITH HARD CEILING. IF CEILING OR ATTIC SPACE OCCUR DURING FIELD CONSTRUCTION THAT REQUIRE ADDING DETECTORS ABOVE THE CEILING OR ATTIC SPACE, PROVIDE A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SHEET OF PLANS SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
7. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA FIRE CODE, ARTICLE 907, CBC 305 AND CALIFORNIA ELECTRICAL CODE, ARTICLE 760.
8. FIRE ALARM SYSTEM SHALL TRANSMIT ALARM, SUPERVISORY AND TROUBLE SIGNAL TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72 AND CBC 907.6.6.3.
9. CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL CODE COMPLIANT SYSTEM WITH ALL REQUIRED HARDWARE, DEVICES, PROGRAMMING AND POINT/DEVICE DESCRIPTION SCHEDULES.
10. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.3.
11. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
12. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL, AND THE LOCAL FIRE MARSHAL.
13. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND SPECIAL INSPECTOR. THE SCHOOL SHALL NOT BE IN OPERATION UNTIL THE IOR AND THE LOCAL FIRE MARSHAL HAS VERIFIED AND/OR SIGNED OFF ON OPERATIONAL CAPACITY OF THE FIRE ALARM SYSTEM.
14. ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
15. CONTRACTOR SHALL SUBMIT THE SPECIAL INSPECTOR NFPA CERTIFICATE OF COMPLIANCE FORM TO THE SCHOOL REPRESENTATIVE FOR SUBMISSION TO THE FIRE DEPARTMENT.
16. BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE SYSTEM INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE INSPECTOR OF RECORD TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND COMPLETELY TESTED IN ACCORDANCE WITH THE 2016 NFPA 72, SECTION 7.5.2 AND 7.6.
17. CONTRACTOR SHALL PROVIDE INTELLIGIBILITY TESTING USING INTELLIGIBILITY METERS APPROVED FOR SUCH USE. REFERENCE NFPA 72 CHAPTER 24. AN STI SCORE OF 7.0 IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL IDENTIFY ALL ACOUSTICALLY DISTINGUISHABLE SPACES (ADS) ON CONTRACTOR SHOP DRAWINGS.
18. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
19. PROVIDE FIRE ALARM AUDIBLE SOUND LEVEL AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIED AREA, BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 120 DBA IN TOTAL, THROUGHOUT. SYNCHRONIZED TEMPORAL CODE 3 SOUND. (NFPA 72, 18.4.2.1)
20. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
21. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
22. A FLASHING VISUAL WARNING DEVICE HAVING A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE [TWO (2) FLASHES OR LESS THAN ONE (1) FLASH PER SECOND] SHALL BE INSTALLED TO WARN THE HEARING-IMPAIRED AS SHOWN ON THE DRAWINGS. FLASHING VISUAL WARNING DEVICES VIEWABLE WITHIN THE SAME INTERIOR SPACE SHALL BE SYNCHRONIZED. (NFPA 72, 18.5.3.6, A18.5.3.6 AND 18.5.5.5.7)
23. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
24. LOCATE SMOKE AND HEAT DETECTORS AT LEAST ONE FOOT AWAY FROM FLUORESCENT LIGHT FIXTURES.
25. CONTRACTOR SHALL AFFIX TO EACH FIELD DEVICE A DEVICE LABEL. DEVICE LABEL SHALL BE ARRANGED FOLLOWING DETAIL "FIRE ALARM CIRCUIT IDENTIFIERS". INITIATION DEVICES CONNECTED TO EQUIPMENT BY OTHERS SHALL HAVE A LABEL AFFIXED TO MODULE INDICATING THE EQUIPMENT CONNECTED.
26. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
27. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
28. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
29. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT OR RACEWAY WHEN PASSING THROUGH A FLOOR OR WALL TO A HEIGHT OF 7 FEET ABOVE THE FLOOR. FIRE ALARM WIRING ABOVE CEILING SHALL BE SUPPORTED BY THE BUILDING STRUCTURE SO AS NOT TO DAMAGE THE CABLE..
30. NO SPLICES SHALL BE ALLOWED FOR FIRE ALARM SYSTEM UNDERGROUND CABLES.
31. NEW FIRE ALARM WIRING SHALL NOT BE INSTALLED IN ANY RACEWAY WITH WIRING IN EXCESS OF 24 VOLT.
32. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
33. ALL FIRE ALARM EQUIPMENT BRANCH CIRCUITS SHALL BE DEDICATED AS PER NFPA 72, 10.6.5.1 AND ITS LOCATION BE CLEARLY LABELED AT THE FIRE ALARM CONTROL PANEL.
34. ALL FIRE ALARM EQUIPMENT POWER SOURCE CIRCUITS SHALL BE IDENTIFIED AT THE POWER SOURCE PER NFPA 72, 10.6.5.2. USING A RED CLEARLY MARKED DISCONNECT WITH LOCK-ON CAPABILITY. COORDINATE WITH ELECTRICAL.
35. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
36. WHERE ACCESSIBILITY IS NOT AVAILABLE TO THE NEW FIRE ALARM DEVICES LOCATED ABOVE THE CEILING/ATTIC SPACES, PROVIDE ACCESS PANELS TO THESE DEVICES, COORDINATE PRIOR TO THE EXECUTION OF WORK.
37. THE CONTRACTOR SHALL PROVIDE AS-BUILT SHOP DRAWINGS INDICATING CIRCUITING OF ALL DETECTOR AS AND OTHER DEVICES IN ALL THE BUILDINGS OF THIS PROJECT. AS-BUILT DRAWINGS SHALL BE STORED IN FIRE ALARM DOCUMENT CABINET INSTALLED ADJACENT TO FIRE ALARM CONTROL PANEL OR LOCATION APPROVED BY AUTHORITY HAVING JURISDICTION.
38. PROVIDE DOCUMENTATION CABINET TO BE INSTALLED PROXIMAL TO FACP (NFPA 72, 7.7.2.1). ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (NFPA 72 7.7.2.3). THE DOCUMENTATION CABINET TO BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" (NFPA 72 7.7.2.5).

EQUIPMENT ANCHORAGE NOTES

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 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE 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 APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. 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 WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE 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 AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

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 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP	MD	PP	E	
☐	☐	☐	☒	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
☐	☐	☐	☐	OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #0043-13.

GOVERNING CODES & APPLICABLE STANDARDS

TITLE 24 CODES:
1. 2022 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE (CAC), (PART 1, TITLE 24, CCR).
2. 2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR), (2018 EDITION INTERNATIONAL BUILDING CODE WITH 2019 CALIFORNIA AMENDMENTS).
3. 2019 CALIFORNIA ELECTRICAL CODE, (PART 3, TITLE 24, CCR), (2017 EDITION NATIONAL ELECTRICAL CODE WITH 2019 CALIFORNIA AMENDMENTS).
4. 2019 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, CCR), (2018 EDITION IAPMO UNIFORM MECHANICAL CODE).
5. 2019 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, CCR), (2018 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS).
6. 2019 CALIFORNIA ENERGY CODE, (PART 6, TITLE 24. CCR), (2019 EDITION CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS).
7. 2019 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR) (2018 EDITION INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS).
8. 2019 CALIFORNIA REFERENCE CODE, (PART 12, TITLE 24. CCR).

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:
1. 2019 CBC, CHAPTER 35.
2. 2019 CFC, CHAPTER 80.
3. 2016 NFPA 72, AS AMENDED.

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 UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY DISTRICT.

FIRE ALARM SHEET INDEX

SHEET NO.	SHEET TITLE
FA0.01	FIRE ALARM LEGEND, ABBREVIATIONS, AND NOTES
FA0.02	FIRE ALARM DETAILS AND SEQUENCE OF OPERATION
FA1.00	FIRE ALARM SITE PLAN
FA3.10	FIRE ALARM FLOOR PLAN – CLASSROOM BLDG A
FA3.11	FIRE ALARM FLOOR PLAN – CLASSROOM BLDG B
FA3.12	FIRE ALARM FLOOR PLAN – CLASSROOM BLDG C
FA3.13	FIRE ALARM FLOOR PLAN – CLASSROOM BLDG D
FA3.14	FIRE ALARM FLOOR PLAN – MULTIPURPOSE BLDG
FA3.15	FIRE ALARM FLOOR PLAN – KINDER-ADMIN BLDG
FA4.10	FIRE ALARM RISER DIAGRAM AND BATTERY CALCULATIONS

FIRE ALARM DEVICE LEGEND (NEW DEVICES ONLY)

SYMBOL	QTY	NEW / EXISTING	MANUFACTURER	PART NO	DESCRIPTION	CSFM
FACU	1	EXISTING	NOTIFIER	AFP-200	ANALOG FIRE PANEL	7165-0028:0164
S	2	NEW	NOTIFIER	DNR / FSP-851R	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR	3242-1653:0209; 7272-0028:0206
AOM RM	1	NEW	NOTIFIER	FRM-1	INTELLIGENT RELAY MODULE	7300-0028:0219
H A	23	NEW	NOTIFIER	FST-851H / B210LP	HEAT DETECTOR	7270-0028:0196; 7300-1653:0109

FIRE ALARM CABLE SCHEDULE

TYPE	DESCRIPTION		JACKET COLOR	SERVES	ENVIRONMENT USE	NOTES
A	2#16 UTP	FPLR, SOLID	RED/BLK	SLC INTELLIGENT LOOP	INTERIOR	
B	2#14 UTP	FPLR, SOLID	RED/BLK	NAC STROBE (VISUAL)	INTERIOR	
C	2#16 STP	FPLR, SOLID	RED/BLK	VOICE (SPEAKER)	INTERIOR	
D	2#16 UTP	FPLR, SOLID	RED/BLK	IDC CIRCUIT	INTERIOR	
E	4#16 UTP	FPLR, SOLID	RED/BLK	FAA RS485 COMM	INTERIOR	
P	2#14 UTP	FPLR, SOLID	RED/BLK	24VDC POWER	INTERIOR	
R	2#16 STP	FPLR, SOLID	RED/BLK	SPEAKER RISER	INTERIOR	
AU	2#16 UTP	WP#AQ225	RED/BLK	SLC ADDRESS LOOP	EXTERIOR/UDGND	DIRECT BURIAL CABLE
BU	2#14 UTP	WP#AQ226	RED/BLK	NAC STROBE (VISUAL)	EXTERIOR/UDGND	DIRECT BURIAL CABLE
CU	2#16 STP	WP#AQ294	RED/BLK	NAC VOICE (SPEAKER)	EXTERIOR/UDGND	DIRECT BURIAL CABLE
DU	2#16 UTP	WP#AQ225	RED/BLK	INITIATE DEVICE CIRCUIT	EXTERIOR/UDGND	DIRECT BURIAL CABLE
EU	4#16 UTP	WP#AQ225	RED/BLK	FAA RS485 COMM	EXTERIOR/UDGND	DIRECT BURIAL CABLE
PU	2#14 UTP	WP#AQ226	RED/BLK	24VDC POWER	EXTERIOR/UDGND	DIRECT BURIAL CABLE
RU	4#16 STP	WP#AQ224	RED/BLK	SPEAKER RISER	EXTERIOR/UDGND	DIRECT BURIAL CABLE

NOTES:
1. ALL CONDUCTORS SHALL BE COPPER AND SOLID – STRANDED CONDUCTOR IS NOT ACCEPTABLE
2. MINIMUM CONDUIT SIZE IS 3/4" – CONCEALED IN CEILING SPACE OR APPROPRIATE WALLS.
3. ALL SURFACE ROUTED RACEWAYS SHALL BE WIREMOLD OR APPROVED EQUAL.

CABLE ABBREVIATIONS:

STP	SHIELDED TWISTED PAIR	PA	PUBLIC ADDRESS
SLC	SIGNAL LINE CIRCUIT	UTP	UNSHIELDED TWISTED PAIR
NAC	NOTIFICATION APPLIANCE CIRCUIT	WP	WEST PENN (CABLE MANUFACTURER)
IDC	INITIATE DEVICE CIRCUIT		

DEVICE DESIGNATION LEGEND

INITIATING DEVICES

EXAMPLE: S L1D001

- DEVICE REFERENCE NUMBER
- DEVICE TYPE (D = DETECTORS, M = MODULES)
- SIGNALING LINE CIRCUIT
- DEVICE SYMBOL (SMOKE SENSOR)

STYLE: 4
CLASS: B

AUDIBLE / VISUAL DEVICES

EXAMPLE: 110CD N1-1-1

- APPLIANCE CANDELA RATING
- APPLIANCE REFERENCE NUMBER
- CIRCUIT REFERENCE NUMBER
- FACP/POWER SUPPLY REFERENCE NUMBER
- APPLIANCE SUMBOL (HORN/ STROBE)

STYLE: Y
CLASS: B

SCOPE OF WORK AND BUILDING INFORMATION

1. PROVIDE AND INSTALL NEW DUCT SMOKE DETECTOR AND RELAY MODULE TO SHUTDOWN THE NEW HVAC UNIT.

   OCCUPANCY CLASSIFICATION: A3, E

   TYPE OF CONSTRUCTION: V-B

   NUMBER OF STORIES: 1 STORY

   SPRINKLER PROTECTION: NO

   ALTERNATIVE PROTECTION: NOT APPLICABLE

   TYPE OF SYSTEM: MANUAL, AUTOMATIC FIRE ALARM SYSTEM

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT, BRIAN P WHITMORE, No. C 30345, Ren. 9/30/23, STATE OF CALIFORNIA, DATE SIGNED: 04/24/2023	REGISTERED PROFESSIONAL ENGINEER, RAMI S. ZEIDAN, No. E 16762, Exp. 9/30/24, ELECTRICAL, STATE OF CALIFORNIA

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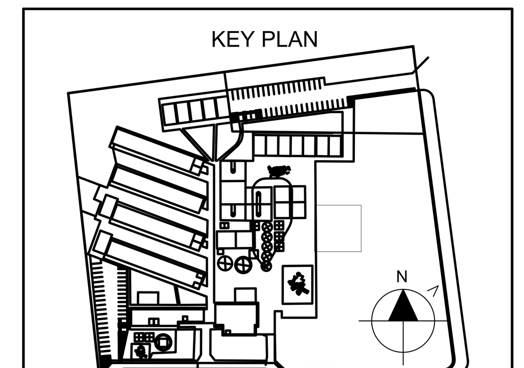
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

		DATE
○	DSA PLAN CHECK	12/23/2022
●	DSA BACK CHECK	04/24/2023
○	BIDDING	
○	CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

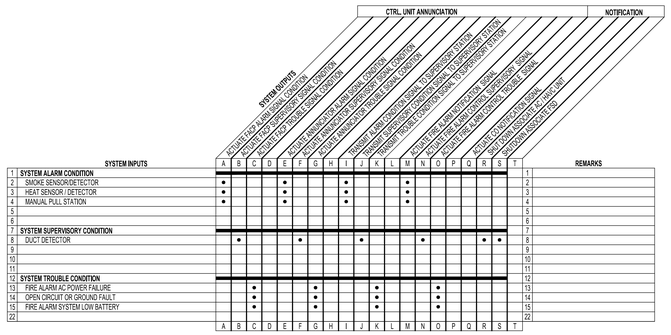
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FIRE ALARM LEGEND, ABBREVIATIONS, AND NOTES

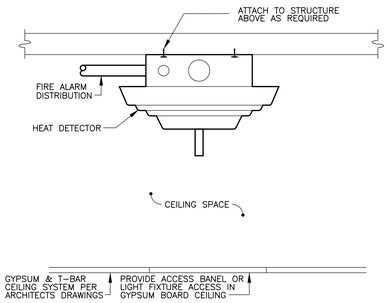
Date: 04/24/2023	Project Number: 22027
Application Number: 01-120632	Drawing Number
Drawn: KT / Checked: CD	FA0.01



FIRE ALARM SEQUENCE OF OPERATIONS

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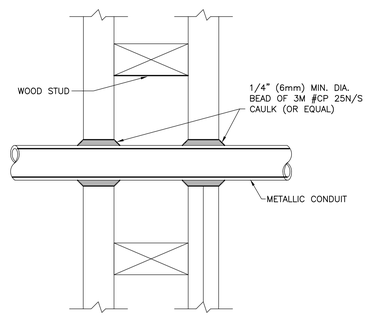
04



HEAT DETECTOR MOUNTING

NTS

05

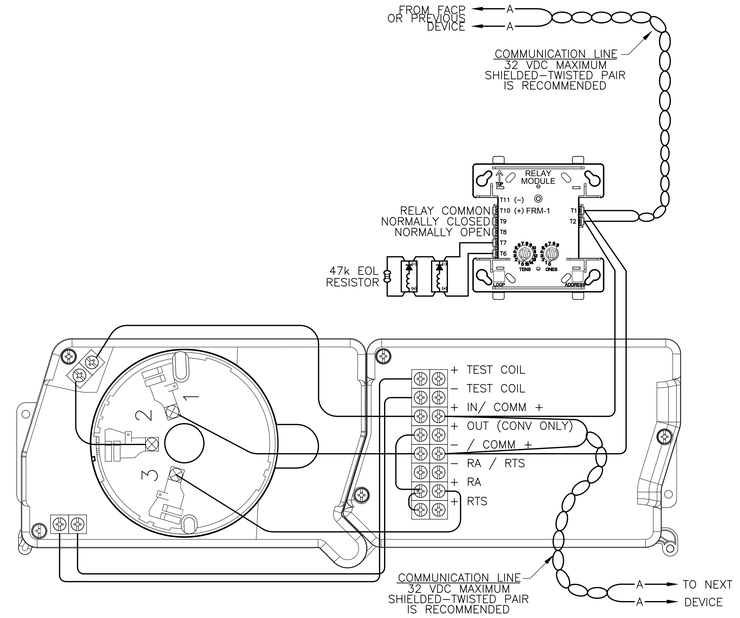


NOTES:
1. THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm).
4. INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
5. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL THROUGH-PENETRATION FIRESTOP SYSTEM #WL1001.

CONDUIT PENETRATION FIRE STOP DETAIL

NTS

06



DNR DUCT SMOKE DETECTOR WITH FRM-1 RELAY MODULE

NTS

01

FRM-1 RELAY CONTROL MODULE

NTS

02

FIGURE 1:

1. WIRE THE SENSOR BASE (SUPPLIED SEPARATELY) PER THE WIRING DIAGRAM. SEE FIGURE 1.
2. SET THE DESIRED ADDRESS ON THE SENSOR ADDRESS SWITCHES. SEE FIGURE 2.
   NOTE:
   SOME PANELS SUPPORT EXTENDED ADDRESSING. IN ORDER TO SET THE SENSOR ABOVE ADDRESS 99 ON COMPATIBLE SYSTEMS, CAREFULLY REMOVE THE STOP ON THE UPPER ROTARY SWITCH WITH THUMB AS SHOWN IN FIGURE 2.
3. INSTALL THE SENSOR INTO THE SENSOR BASE. PUSH THE SENSOR INTO THE BASE WHILE TURNING IT CLOCKWISE TO SECURE IT IN PLACE.
4. AFTER ALL SENSORS HAVE BEEN INSTALLED, APPLY POWER TO THE CONTROL UNIT AND ACTIVATE THE COMMUNICATION LINE.
5. TEST THE SENSOR(S) AS DESCRIBED IN THE TESTING SECTION OF THE DETECTORS INSTALLATION AND MAINTENANCE INSTRUCTIONS MANUAL.

FIGURE 2:

HEAT DETECTOR

NTS

03

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STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITNEY No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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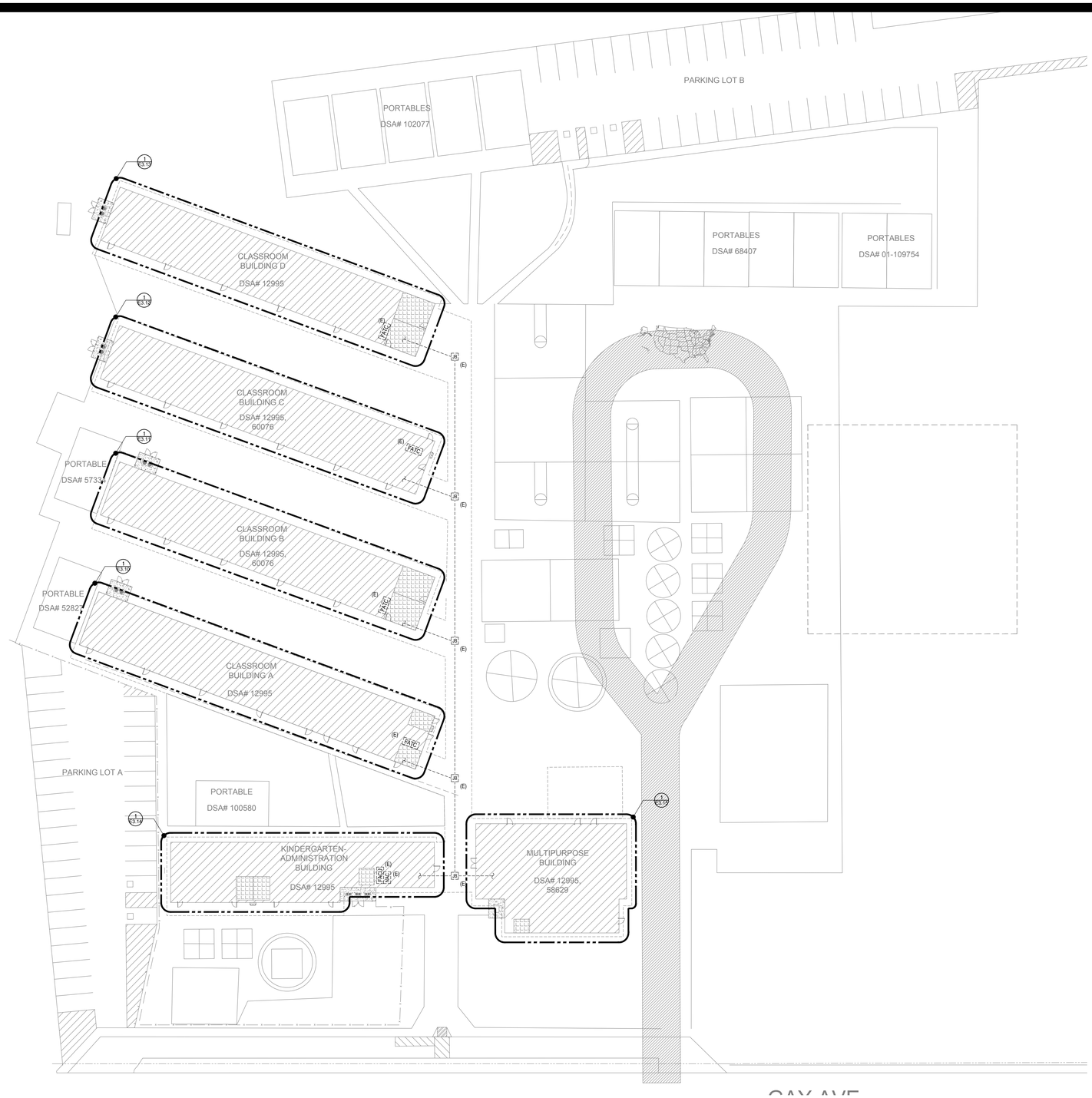
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FIRE ALARM DETAILS AND SEQUENCE OF OPERATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	FA0.02
Drawn / Checked	
KT / CD	



GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS, PRIOR TO ANY WORKS, AND REPORT TO ENGINEERS ANY DISCREPANCIES.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AN INDEPENDENT UTILITY LOCATER TO IDENTIFY ALL (E) UTILITIES PRIOR TO TRENCHING/BORING.
3.
4. UNDERGROUND CONDUITS SHALL BE SCH-40 PVC.
5. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEY AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
6. EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE UNTIL CONSTRUCTION IS COMPLETED. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING FIRE ALARM SYSTEMS AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWNS. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE.
7. FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-LINE BUILDING. THE SCHOOL SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING SCHOOL HOURS AND WHENEVER THE CAMPUS IS OCCUPIED BY STUDENTS, TEACHERS AND STAFF. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER SCHOOL HOURS AND WHENEVER THE CAMPUS IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.
8. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE DEEM SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER. ALL FIRE ALARM MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.
9. WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE.
10. WHEREVER EXISTING DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE AND REPAIR ALL SURFACES.
11. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
12. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
    a. REMOVE ALL WIRE AND CABLE.
    b. REMOVE ALL DEVICES AND EQUIPMENT.
    c. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.
    d. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.

FIRE ALARM SITE PLAN | **1** 1" = 25'

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Sacramento, California 95811
[T] 916.254.5600
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1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITTHORN No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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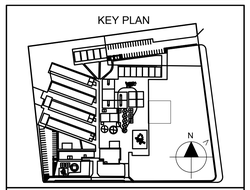
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KEY PLAN



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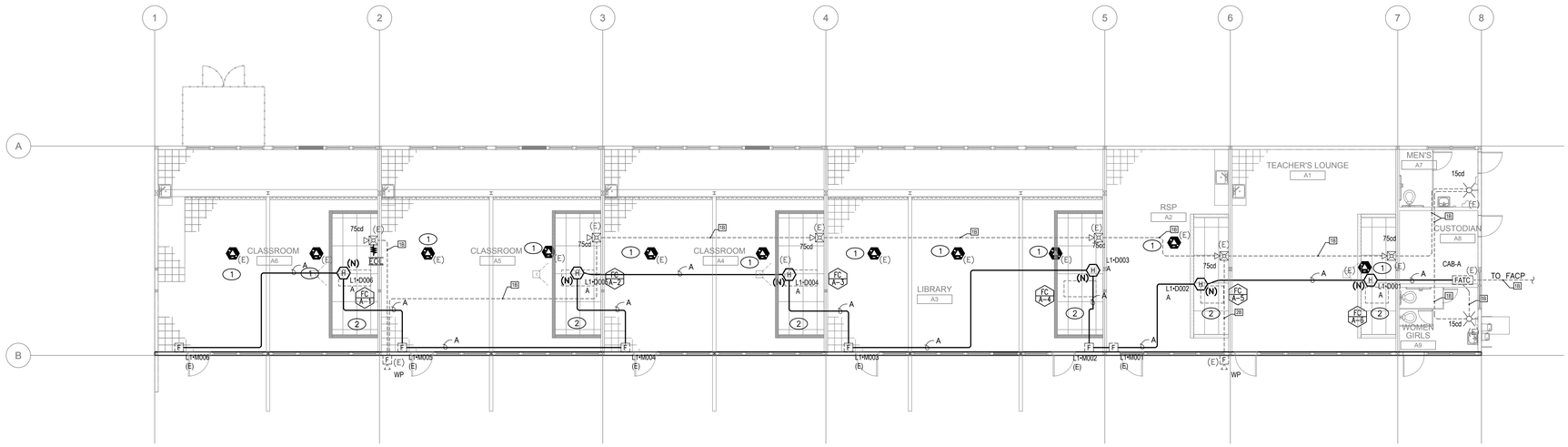
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FIRE ALARM SITE PLAN

Date 04/24/2023	Project Number 22027
Application Number 01-120632	Drawing Number FA1.00
Drawn KT	Checked CD

KEY NOTES

1. EXISTING CO DETECTOR WITH SOUNDER BASE (TYP). EXISTING CO DETECTOR INDEPENDENT FROM FIRE ALARM SYSTEM.
2. NEW MECHANICAL UNIT WELLS.



FIRE ALARM FLOOR PLAN - BUILDING A | **1** 1/8" = 1'-0"

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Roseville, CA 95678
p 916-771-0778
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Job #: 22-2173

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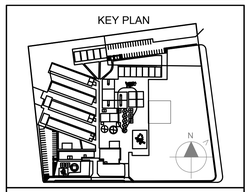
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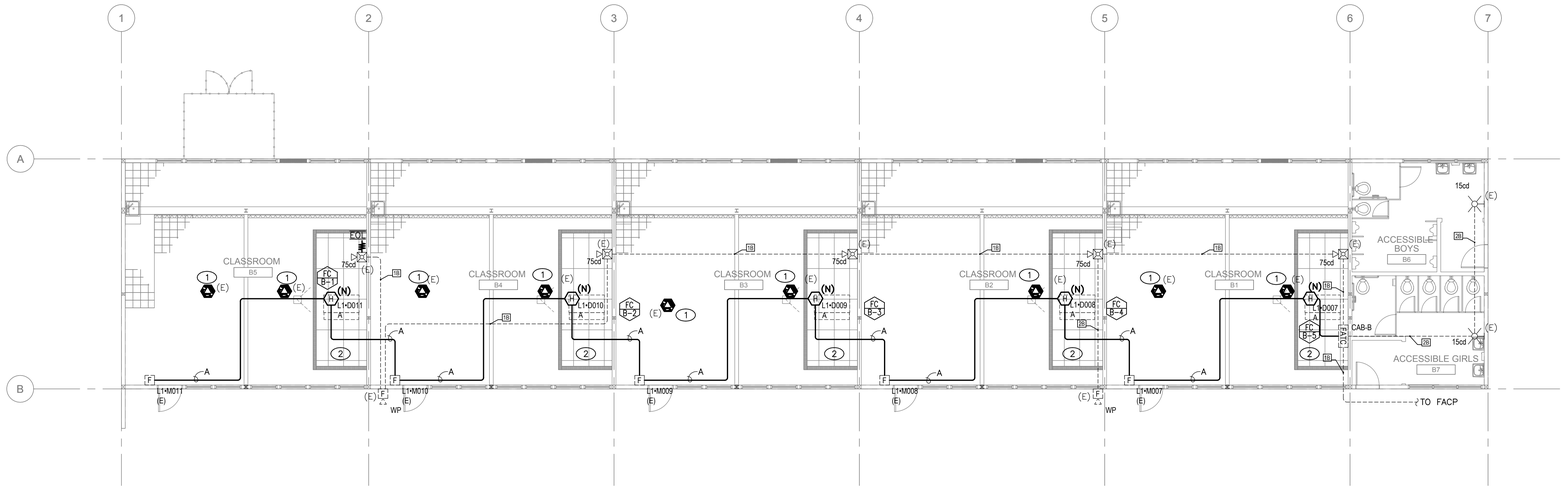
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FIRE ALARM FLOOR PLAN BUILDING A

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	FA3.10
Drawn: KT	Checked: CD

KEY NOTES

1. EXISTING CO DETECTOR WITH SOUNDER BASE (TYP). EXISTING CO DETECTOR INDEPENDENT FROM FIRE ALARM SYSTEM.
2. NEW MECHANICAL UNIT WELLS.



FIRE ALARM FLOOR PLAN - BUILDING B | **1** 1/8" = 1'-0"

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1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
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LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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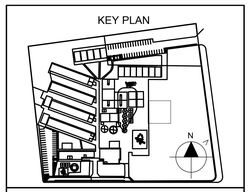
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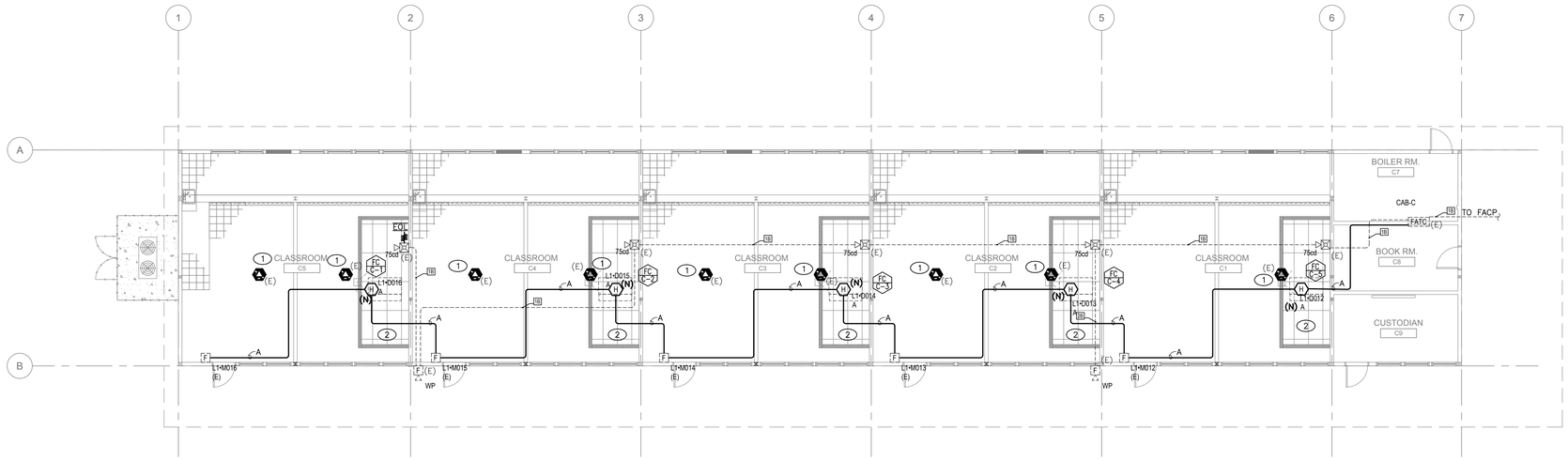
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FIRE ALARM FLOOR PLAN BUILDING B

Date 04/24/2023	Project Number 22027
Application Number 01-120632	Drawing Number FA3.11
Drawn KT	Checked CD

KEY NOTES

1. EXISTING CO DETECTOR WITH SOUNDER BASE (TYP). EXISTING CO DETECTOR INDEPENDENT FROM FIRE ALARM SYSTEM.
2. NEW MECHANICAL UNIT WELLS.



FIRE ALARM FLOOR PLAN - BUILDING C | **1** 1/8" = 1'-0"

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Roseville, CA 95678
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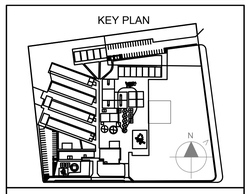
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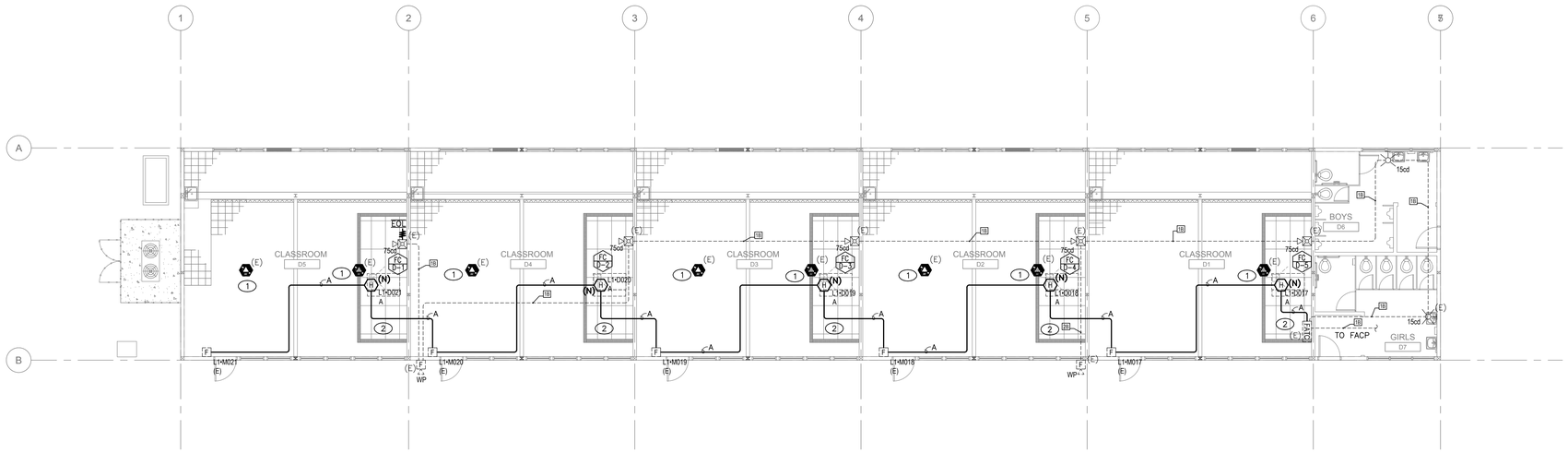
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FIRE ALARM FLOOR PLAN BUILDING C

Date 04/24/2023	Project Number 22027
Application Number 01-120632	Drawing Number FA3.12
Drawn KT	Checked CD

KEY NOTES

1. EXISTING CO DETECTOR WITH SOUNDER BASE (TYP). EXISTING CO DETECTOR INDEPENDENT FROM FIRE ALARM SYSTEM.
2. NEW MECHANICAL UNIT WELLS.



FIRE ALARM FLOOR PLAN - BUILDING D | 1

1/8" = 1'-0"

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Roseville, CA 95678
p 916-771-0778
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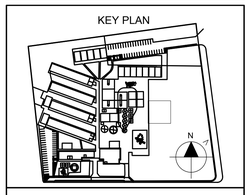
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KEY PLAN



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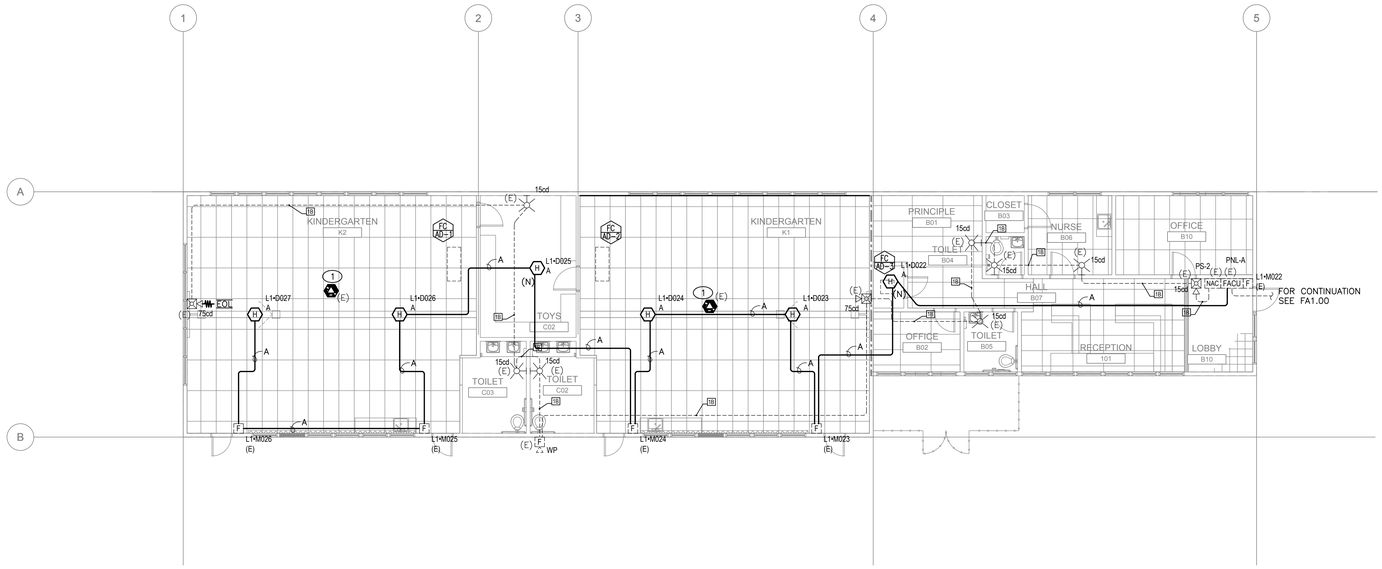
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FIRE ALARM FLOOR PLAN BUILDING D

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	FA3.13
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KT / CD	

KEY NOTES

(1) EXISTING CO DETECTOR WITH SOUNDER BASE (TYP). EXISTING CO DETECTOR INDEPENDENT FROM FIRE ALARM SYSTEM.



FIRE ALARM FLOOR PLAN - ADMIN BUILDING | **1** 1/8" = 1'-0"

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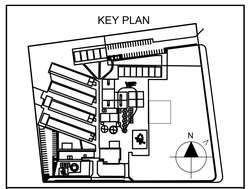
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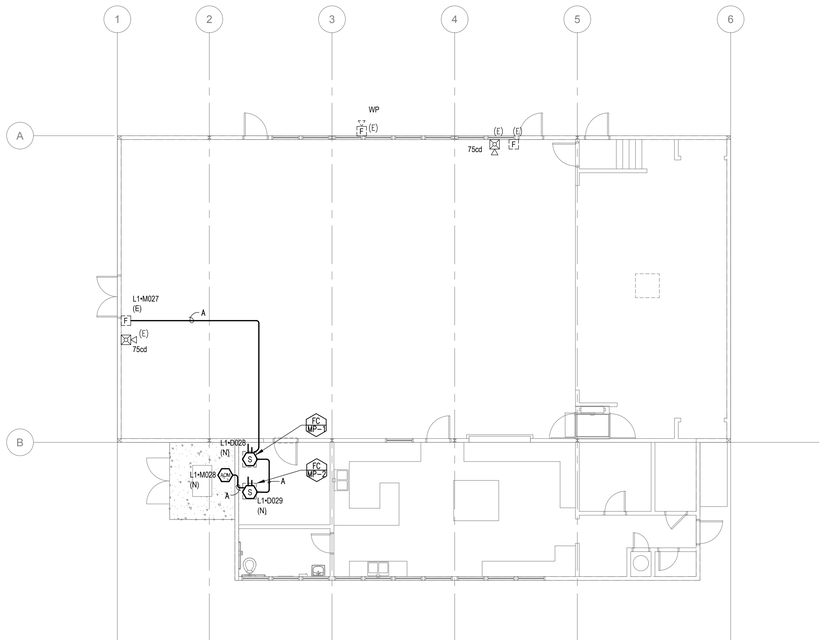
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FIRE ALARM FLOOR PLAN ADMIN BUILDING

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	FA3.14
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FIRE ALARM FLOOR PLAN - MULTIPURPOSE BUILDING | **1** 1/8" = 1'-0"

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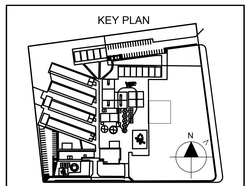
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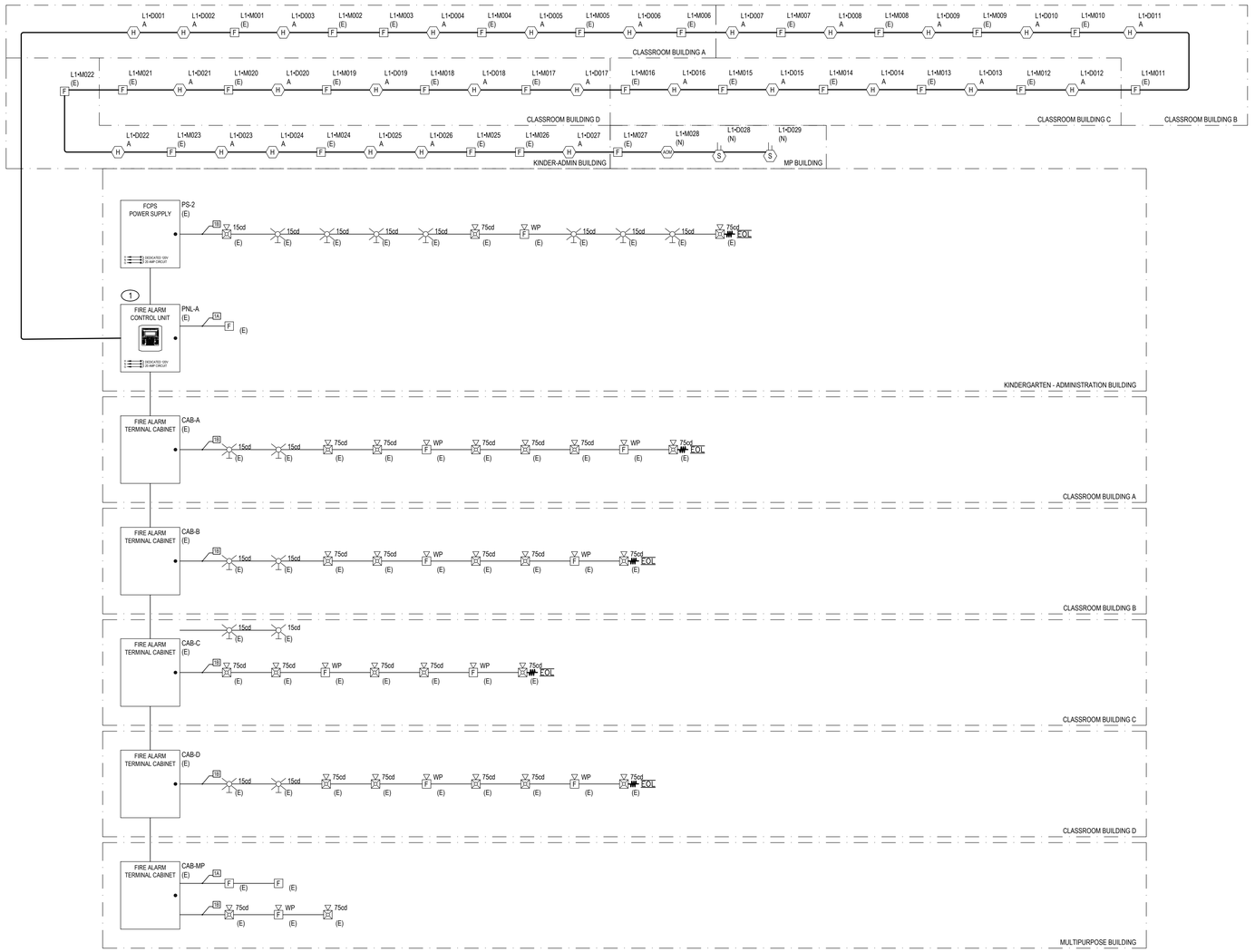
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FIRE ALARM FLOOR PLAN MULTIPURPOSE BUILDING

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	FA3.15
Drawn / Checked	
KT / CD	



FIRE ALARM RISER DIAGRAM **1** NTS

KEY NOTES

(1) CO DETECTOR IS INDEPENDENT OF EXISTING FIRE ALARM SYSTEM AND NOT SHOWN ON FIRE RISER.

PANEL PNL-A (AFP-200) BATTERY CALCULATION

PANEL POWER SUPPLY MAX CURRENT = 5A					TOTAL USED CAPACITY (IN ALARM) = 0.1168A (2.34 %)			
					STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
PANEL COMPONENTS		**QTY**	**PART NO.**	**DESCRIPTION**	**CURRENT DRAW (A)**	**TOTAL (A)**	**CURRENT DRAW (A)**	**TOTAL**
		1	AFP-200 Main Board	Fire Alarm Control Panel Main Board	0	**0**	0.1	**0.1**
CIRCUIT	**SYMBOL**	**QTY**	**PART NO**	**DESCRIPTION**	**CURRENT DRAW (A)**	**TOTAL (A)**	**CURRENT DRAW (A)**	**TOTAL (A)**
PNL-A-L1	S	2	DNR	Intelligent Non-Relay Photoelectric Duct Detector	0.0003	**0.0006**	0.0003	**0.0006**
	AOM	1	FRM-1	Addressable Relay Module W/ FlashScan, 2 Form-C Dry Contacts	0	**0**	0	**0**
	H A	27	FST-851H w/B210-LP	Intelligent Addressable 195°F (88°C) Thermal Heat Detector W/ Flashscan	0.0003	**0.0081**	0.0003	**0.0081**
	F	27	NBG-12LX (E)	Dual-action addressable pull station. Includes key locking feature.	0.0003	**0.0081**	0.0003	**0.0081**
					TOTAL STANDBY (A)	**0.0168**	TOTAL ALARM (A)	**0.1168**
					REQUIRED STANDBY TIME = 24 HOURS			
					REQUIRED ALARM TIME = 5 MINUTES			
SECONDARY STANDBY LOAD (A)				**0.0168**	24		**0.4**	
SECONDARY ALARM LOAD (A)				**0.1168**	0.08		**0.01**	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					**0.41**			
DERATING FACTOR					1.2			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					**0.5**			
PROVIDE (2) 12V 7AH BATTERIES								
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

THE EXISTING FA SYSTEM IS NOT VOICE EVAC, 15 MINUTES ALARM IT'S NOT REQUIRED.

FIRE ALARM BATTERY CALCULATIONS **2** NTS

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

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Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

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MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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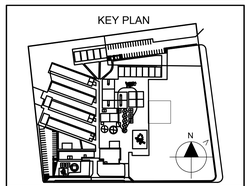
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

FIRE ALARM RISER DIAGRAM AND BATTERY CALCULATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	FA4.10
Drawn: KT	Checked: CD

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 3 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	14:43, Thu, Dec 22, 2022
Input File Name:	Building-A Russo.cibd19x		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	4.7	-4.7	58.2	--	58.2
Space Cooling	10.9	7.3	3.6	--	--	--
Indoor Fans	31.0	13.3	17.7	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	1.2	1.2	0.0	28.5	28.5	0.0
Indoor Lighting	7.8	7.8	0.0	--	--	-->
Compliance Total	**50.9**	**34.3**	**16.6**	**86.7**	**28.5**	**58.2**
Receptacle	16.5	16.5	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	0.4	0.4	0.0	--	--	--
Process Motors	1.3	5.3	-4.0	--	--	--
TOTAL	**69.1**	**56.5**	**12.6**	**86.7**	**28.5**	**58.2**

D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION

This Section Does Not Apply

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 2 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	14:43, Thu, Dec 22, 2022
Input File Name:	Building-A Russo.cibd19x		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ^{2}-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	21.76	21.40	0.36
Space Cooling	87.18	61.30	25.88
Indoor Fans	175.90	75.37	100.53
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	15.62	15.62	--
Indoor Lighting	41.53	41.53	--
ENERGY STANDARDS COMPLIANCE TOTAL	**341.99**	**215.22**	**126.77 (37.1%)**

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.*

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	87.09	87.09	--
Process	--	--	--
Other Ltg	2.27	2.27	--
Process Motors	7.17	29.67	-22.50
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**438.52**	**334.25**	**104.3 (23.8%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 1 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	14:43, Thu, Dec 22, 2022
Input File Name:	Building-A Russo.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	San Jose	8	Standards Version	Compliance2019
2	CA Zip Code	95127	9	Compliance Software (version)	EnergyPro 8.3
3	Climate Zone	4	10	Weather File	SAN JOSE-INTL_724945_CZ2010.epw
4	Total Conditioned Floor Area in Scope	5,348 ft^2	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	360 ft^2	12	Permitted Scope of Work	ExistingAlteration
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively	
Envelope (see Table G)	☒ Performance ☐ Not Included	Covered Process: Commercial Kitchens	☐ Performance ☒ Not Included	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
Mechanical (see Table H)	☒ Performance ☐ Not Included	Covered Process: Computer Rooms	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*
Domestic Hot Water (see Table I)	☐ Performance ☒ Not Included	Covered Process: Laboratory Exhaust	☐ Performance ☒ Not Included	Outdoor Lighting §140.7	*NRCC-LTO-E*
				Sign Lighting §140.8	*NRCC-LTS-E*
				Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☐ Performance			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☒ Not Included			Electrical Power Distribution 5110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐ Performance			Commissioning 5120.8	*NRCC-CXR-E*
	☒ Not Included			Solar Ready 5110.10	*NRCC-SRA-E*

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 6 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	14:43, Thu, Dec 22, 2022
Input File Name:	Building-A Russo.cibd19x		

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
HP A-1	VRF	1	256	NA	COP	3.20	228	EER	10.80	NA	N

[1] *Status: N - New, A – Altered, E – Existing*

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Design OA	Supply Fan					Return Fan					
Name or Item Tag	Qty	CFM	CFM	Modeling Method	Power	Power Units	Control	CFM	Modeling Method	Power	Power Units	Control	Status[1]
2-Classroom A6-VRF	1	368	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
3-Classroom A5-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
4-Classroom A4-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
5-Library A3-VRF	1	180	1624	BrakeHorsePower	0.527	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
6-RSP-VRF	1	81	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
7-Teachers Lounge A1-VRF	1	360	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

[1] *Status: N - New, A – Altered, E – Existing*

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	Zone Name	Qty	CFM	Motor BHP	Power Per Flow (W/cfm)	Total Static Pressure (in. H_2O)	Status[1]
Men RR A754	7-Men RR A7	1	109	0.700	5.600	26.49	N
Women RR A970	9-Women RR A9	1	119	0.700	5.130	24.26	N

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 5 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	14:43, Thu, Dec 22, 2022
Input File Name:	Building-A Russo.cibd19x		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft^2)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
R-19 + R-11 Roof No Attic15	Roof	5708	Wood	19	11	U-Factor	0.031	Built-up roofing - 3/8 in. Vapor permeable felt - 1/8 in. Gypsum Board - 1/2 in. Compliance Insulation R11.00 Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.	A
R-0 Wall68	InteriorWall	NaN	NA	0	NA	U-Factor	0.337	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	E

[1] *Status: N - New, A – Altered, E – Existing*

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method[1]	Assembly Method	Area ft^2	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Single Metal Clear	VerticalFenestration FixedWindow MetalFraming	Default Performance	SiteBuilt	1367	1.19	0.83	0.77	E

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*

[2] *Status: N - New, A – Altered, E – Existing*

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 4 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	14:43, Thu, Dec 22, 2022
Input File Name:	Building-A Russo.cibd19x		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	Total Gross Surface Area (ft^2)	Total Fenestration Area (ft^2)	Window to Wall Ratio (%)
North-Facing[1]	2,406 ft^2	951 ft^2	39.5%
East-Facing[2]	0 ft^2	0 ft^2	00.0%
South-Facing[3]	1,783 ft^2	357 ft^2	20.0%
West-Facing[4]	360 ft^2	0 ft^2	00.0%
Total	**4,549 ft^2**	**1,308 ft^2**	**28.8%**
Roof	5,348 ft^2	0 ft^2	00.0%

Notes:
[1] North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
[2] East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
[3] South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
[4] West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft^2)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Slab On Grade6	UndergroundFloor	5708	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	E
Default Wall Prior to 1978	ExteriorWall	5035	Wood	0	NA	U-Factor	0.537	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.	E

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 8 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	14:43, Thu, Dec 22, 2022
Input File Name:	Building-A Russo.cibd19x		

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13
				Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	Zone Name	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
2-Classroom A6-VRF	1-Classroom A6	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
3-Classroom A5-VRF	2-Classroom A5	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
4-Classroom A4-VRF	3-Classroom A4	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
5-Library A3-VRF	4-Library A3	VRF	1	60.00	54.00	1624	NA	NA	0.527	bhp	☐	☐
6-RSP-VRF	5-RSP	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
7-Teachers Lounge A1-VRF	6-Teachers Lounge A1	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 7 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	14:43, Thu, Dec 22, 2022
Input File Name:	Building-A Russo.cibd19x		

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	Zone Name	Qty	CFM	Motor BHP	Power Per Flow (W/cfm)	Total Static Pressure (in. H_2O)	Status[1]

[1] *Status: N - New, A – Altered, E – Existing*

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

H5. PUMPS

This Section Does Not Apply

H6. SYSTEM SPECIAL FEATURES

This Section Does Not Apply

H7. NONRESIDENTIAL VENTILATION

1	2	3	4	5	6	7
	Mechanical Ventilation					
Zone Name	Ventilation Function	# of people	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-Classroom A6	Education - Classrooms (ages 5-8)	24.20	368	0	968	NA
2-Classroom A5	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA
3-Classroom A4	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA
4-Library A3	Assembly - Libraries (reading rooms and stack areas)	12.00	180	0	1200	NA
5-RSP	Office - Office space	2.70	81	0	540	NA
6-Teachers Lounge A1	General - Break rooms	24.00	360	0	720	NA

H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION

This Section Does Not Apply

DSA STAMP

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Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

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Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA
Seal Expires: 09/30/2023

ENGINEER
REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

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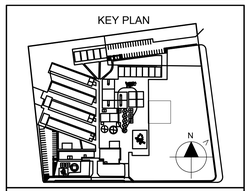
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

TITLE 24 SHEET INDEX

SHEET NUMBER	SHEET NAME
T24.01	TITLE 24 CALCULATIONS
T24.02	TITLE 24 CALCULATIONS
T24.03	TITLE 24 CALCULATIONS
T24.04	TITLE 24 CALCULATIONS
T24.05	TITLE 24 CALCULATIONS
T24.06	TITLE 24 CALCULATIONS
T24.07	TITLE 24 CALCULATIONS
T24.08	TITLE 24 CALCULATIONS
T24.09	TITLE 24 CALCULATIONS
T24.10	TITLE 24 CALCULATIONS
T24.11	TITLE 24 CALCULATIONS
T24.12	TITLE 24 CALCULATIONS
T24.13	TITLE 24 CALCULATIONS
T24.14	TITLE 24 CALCULATIONS
T24.15	TITLE 24 CALCULATIONS
T24.16	TITLE 24 CALCULATIONS
T24.17	TITLE 24 CALCULATIONS
T24.18	TITLE 24 CALCULATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T24.01
Drawn: KT	Checked: CD

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Signature:
Company: LP Consulting Engineers, Inc	
Address: 1209 Pleasant Grove Blvd	Signature Date: 2022-12-22
City/State/Zip: Roseville CA 95678	CEA/ HERS Certification Identification (if applicable):
Phone: 916.771.0778	

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 Envelope Designer Name:	Signature:	
Company:	Date Signed:	
Address:		
City/State/Zip:		
Phone:	Title:	License #:
Responsible Lighting Designer Name: Rami Zeidan	Signature:	
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22	
Address: 1209 Pleasant Grove Blvd		
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Electrical Engineer	License #: E16762
Responsible Mechanical Designer Name: Ryan Ennis	Signature:	
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22	
Address: 1209 Pleasant Grove Blvd		
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Mechanical Engineer	License #: M41413

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-11-A Automatic Demand Shed Controls
	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Pass	Fail
Required > 10,000 SF	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. *EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*	13
	Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Men RR A7	Restrooms	0.65	109	70.9	No	No
Custodian A8	Commercial Industrial Storage Area	0.45	132	59.4	No	No
Women RR A9	Restrooms	0.65	119	77.4	No	No
	TOTALS:		360	207.7	See Tables J, or P for detail	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-22
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01 Project Location (city)	San Jose	04 Total Conditioned Floor Area (ft²)	0
02 Climate Zone	4	05 Total Unconditioned Floor Area (ft²)	360
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1

● Classroom ● Library ● Office ● Support Areas ● Warehouse ● : See Table I

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	0	Area Category Method	360
Total Area of Work (ft²)	0		360	

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05	06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	=	**Total Allowed** (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 §140.6**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned					=				=		
Unconditioned		207.7	0		=	208	0	0	=	0	COMPLIES
								Controls Compliance (See Table H for Details)			COMPLIES
								Rated Power Reduction Compliance (See Table Q for Details)			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This section does not apply to this project.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

MEP & FS / Sustainability / CxA

LP CONSULTING ENGINEERS
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778

www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RYAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES

1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated below has been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
4. Copyright Studio W Associates, Inc. 2023.

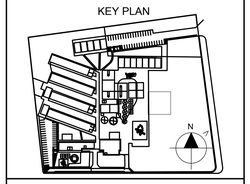
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T24.02
Drawn KT	Checked CD

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
									Pass	Fail
						Total Design Watts:	0			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)*

G. CUTOFF REQUIREMENTS (BUG)
This section does not apply to this project.

H. OUTDOOR LIGHTING CONTROLS
This section does not apply to this project.

I. LIGHTING POWER ALLOWANCE (per §140.7)
This section does not apply to this project.

J. LIGHTING ALLOWANCE: PER APPLICATION
This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:45:08

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L											Compliance Results		
01		02		03		04		05	OR	06	=	07	≥	08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)		Existing Power Allowance §141.0(b)2L (See Table N)		**Total Allowed** (Watts)		**Total Actual** (Watts)	**07 must be >= 08**
0	+	---	+	---	+	---	+	---	OR	---	=	0	≥	0	COMPLIES

Cutoff Compliance (See Table G for Details)	N/A
Controls Compliance (See Table H for Details)	COMPLIES

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:45:08

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	4			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02	
☐ New Lighting System	Must Comply with Allowances from §140.7	
☒ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes ● No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☒ < 10% ☐ >= 10% and < 50% ☐ >= 50%	0	Maintain Existing Power Method per §141.0(b)2L

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:45:08

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 6 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-22
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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.
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Responsible Designer Name: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:45:08

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 5 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no NRCA forms required for this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:45:08

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 4 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL
This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This table includes all existing luminaires being replaced to establish the lighting power allowance per §141.0(b)2Lii or §141.0(b)2Liii. Existing luminaires that are remaining or being moved should NOT be included.

Existing Conditions Wattage:

01	02	03	04	05	06	07	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]	How is Wattage determined	# of Luminaires Being Replaced[2]	Existing Watts	Field Inspector	
						Pass	Fail
				Total Existing Watts			
				Allowance per §141.0(b)2L :			

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:45:08

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-22
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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.
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Responsible Designer Name: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:45:08

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

F. MAXIMUM ALLOWED LIGHTING POWER AND CONTROLS
This section does not apply to this project.

G. LIGHT SOURCES AND CONTROLS
This section does not apply to this project.

H. ENERGY VERIFIED LABELED SIGNS AND CONTROLS
This section does not apply to this project.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTS-01-E - Must be submitted for all buildings	☐	☐

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no Certificates of Acceptance applicable to sign lighting requirements.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:45:08

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12, §130.0, §130.3, §140.8, and §141.0(b)2M for sign lighting scopes using the prescriptive path. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.

A. GENERAL INFORMATION

01	Project Location (city)	San Jose
02	Climate Zone	4
03	Building is a healthcare facility	**No**

B. PROJECT SCOPE

This table includes illuminated signs that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.8 or §141.0(b)2M for alterations. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.

01	02	03	04	05
Name or Item Tag	Complete Sign Description	Sign Status[1]	Sign Type	Compliance Method[2]

[1] *FOOTNOTE: Sign alterations that increase the connected lighting load, replace and rewire more that 50% of the ballasts, or relocate the sign to a different location must comply with §140.8. See §141.0(b)2M for more details.*
[2] *The ENERGY VERIFIED Label compliance method is only applicable if the sign has a permanent, factory-installed, ENERGY VERIFIED label certified by UL or comparable, confirming the sign complies with §140.8. Note that using an ENERGY VERIFIED label is an optional compliance path, not a mandatory requirement. See the tooltips for this table for more details.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables B through H. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03		04		05	OR	06	OR	07
Name or Item Tag (See Table B)	Complete Sign Description (See Table B)	Total Allowed (Watts) (See Table F)	≥	Total Designed (Watts) (See Table F)	OR	Compliant Light Sources (See Table G)		ENERGY VERIFIED Label (See Table H)		**Compliance Results**

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:45:08

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITNEY No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA (with Protect Signature)	REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES

1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
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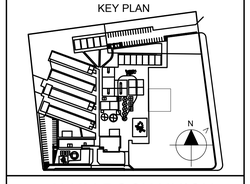
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T24.03
Drawn KT	Checked CD

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	5.0	-5.0	61.1	--	61.1
Space Cooling	10.3	7.1	3.2	--	--	--
Indoor Fans	29.6	11.4	18.2	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	38.2	38.2	0.0
Indoor Lighting	6.9	6.9	0.0	--	--	-->
Compliance Total	**46.8**	**30.4**	**16.4**	**99.3**	**38.2**	**61.1**
Receptacle	12.7	12.7	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	0.7	0.7	0.0	--	--	--
Process Motors	1.3	5.3	-4.0	--	--	--
TOTAL	**61.5**	**49.1**	**12.4**	**99.3**	**38.2**	**61.1**

D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION

This Section Does Not Apply

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ^{2}-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	25.46	25.55	-0.09
Space Cooling	93.46	68.79	24.67
Indoor Fans	186.22	71.44	114.78
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	14.27	14.27	--
Indoor Lighting	40.91	40.91	--
ENERGY STANDARDS COMPLIANCE TOTAL	**360.32**	**220.96**	**139.36 (38.7%)**

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.*

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	74.58	74.58	--
Process	--	--	--
Other Ltg	4.24	4.24	--
Process Motors	7.98	33.00	-25.02
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**447.12**	**332.78**	**114.3 (25.6%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-12-22 14:46:44

A. GENERAL INFORMATION

1	Project Location (city)	San Jose	8	Standards Version	Compliance2019
2	CA Zip Code	95127	9	Compliance Software (version)	EnergyPro 8.3
3	Climate Zone	4	10	Weather File	SAN JOSE-INTL_724945_CZ2010.epw
4	Total Conditioned Floor Area in Scope	4,808 ft^2	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	537 ft^2	12	Permitted Scope of Work	ExistingAlteration
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively	
Envelope (see Table G)	☒ Performance ☐ Not Included	Covered Process: Commercial Kitchens	☐ Performance ☒ Not Included	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
Mechanical (see Table H)	☒ Performance ☐ Not Included	Covered Process: Computer Rooms	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned)§140.6 Outdoor Lighting §140.7	*NRCC-LTI-E* *NRCC-LTO-E*
Domestic Hot Water (see Table I)	☐ Performance ☒ Not Included	Covered Process: Laboratory Exhaust	☐ Performance ☒ Not Included	Sign Lighting §140.8	*NRCC -LTS-E*
				Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☐ Performance ☒ Not Included			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)* Electrical Power Distribution §110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐ Performance ☒ Not Included			Commissioning §120.8 Solar Ready §110.10	*NRCC-CXR-E* *NRCC-SRA-E*

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-12-22 14:46:44

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
HP B-1	VRF	1	256	NA	COP	3.20	228	EER	10.80	NA	N

[1] *Status: N – New, A – Altered, E – Existing*

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Design OA	Supply Fan					Return Fan					
Name or Item Tag	Qty	CFM	CFM	Modeling Method	Power	Power Units	Control	CFM	Modeling Method	Power	Power Units	Control	Status[1]
2-Classroom B5-VRF	1	368	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
3-Classroom B4-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
4-Classroom B3-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
5-Classroom B2-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
6-Classroom B1-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

[1] *Status: N – New, A – Altered, E – Existing*

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	Zone Name	Qty	CFM	Motor BHP	Power Per Flow (W/cfm)	Total Static Pressure (in. H_2O)	Status[1]
Boys B644	6-Boys B6	1	109	0.700	5.600	26.49	N
Girls B753	7-Girls B7	1	119	0.700	5.130	24.26	N

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-12-22 14:46:44

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft^2)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
R-19 + R-11 Roof No Attic15	Roof	5345	Wood	19	11	U-Factor	0.031	Built-up roofing - 3/8 in. Vapor permeable felt - 1/8 in. Gypsum Board - 1/2 in. Compliance Insulation R11.00 Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, S.Sin., R-19 Gypsum Board - 1/2 in.	A

[1] *Status: N - New, A – Altered, E – Existing*

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method[1]	Assembly Method	Area ft^2	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Single Metal Clear	VerticalFenestration FixedWindow MetalFraming	Default Performance	SiteBuilt	1630	1.19	0.83	0.77	E

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*

[2] *Status: N - New, A – Altered, E – Existing*

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-12-22 14:46:44

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	Total Gross Surface Area (ft^2)	Total Fenestration Area (ft^2)	Window to Wall Ratio (%)
North-Facing[1]	2,244 ft^2	1,285 ft^2	57.3%
East-Facing[2]	0 ft^2	0 ft^2	00.0%
South-Facing[3]	1,603 ft^2	345 ft^2	21.5%
West-Facing[4]	285 ft^2	0 ft^2	00.0%
Total	**4,132 ft^2**	**1,630 ft^2**	**39.4%**
Roof	4,808 ft^2	0 ft^2	00.0%

Notes:
[1] North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
[2] East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
[3] South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
[4] West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft^2)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Slab On Grade6	UndergroundFloor	5345	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	E
Default Wall Prior to 1978	ExteriorWall	4726	Wood	0	NA	U-Factor	0.537	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.	E

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-12-22 14:46:44

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-12-22 14:46:44

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13
				Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	Zone Name	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
2-Classroom B5-VRF	1-Classroom B5	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
3-Classroom B4-VRF	2-Classroom B4	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
4-Classroom B3-VRF	3-Classroom B3	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
5-Classroom B2-VRF	4-Classroom B2	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
6-Classroom B1-VRF	5-Classroom B1	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-12-22 14:46:44

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	Zone Name	Qty	CFM	Motor BHP	Power Per Flow (W/cfm)	Total Static Pressure (in. H_2O)	Status[1]

[1] *Status: N - New, A – Altered, E – Existing*

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

H5. PUMPS

This Section Does Not Apply

H6. SYSTEM SPECIAL FEATURES

This Section Does Not Apply

H7. NONRESIDENTIAL VENTILATION

1	2	3	4	5	6	7
	Mechanical Ventilation					
Zone Name	Ventilation Function	# of people	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-Classroom B5	Education - Classrooms (ages 5-8)	24.20	368	0	968	NA
2-Classroom B4	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA
3-Classroom B3	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA
4-Classroom B2	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA
5-Classroom B1	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA

H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION

This Section Does Not Apply

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-12-22 14:46:44

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

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1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT: LICENSED ARCHITECT — BRYAN P. WHITNEY — No. C 30345 — Ren. 9/30/23 — STATE OF CALIFORNIA — Seal Expires: 09/30/2023

ENGINEER: REGISTERED PROFESSIONAL ENGINEER — BRYAN ENNIS — M 41413 — REN. 03-31-23 — MECHANICAL — STATE OF CALIFORNIA

GENERAL NOTES
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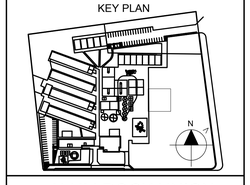
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date 04/24/2023
Project Number 22027
Application Number 01-120632
Drawing Number T24.04
Drawn KT
Checked CD

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	4	05	Total Unconditioned Floor Area (ft²)	537
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Classroom ● Support Areas

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	0	Area Category Method	537
Total Area of Work (ft²)	0		537	

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 11 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	14:46, Thu, Dec 22, 2022
Input File Name:	Building-B Russo.cibd19x		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Signature:
Company: LP Consulting Engineers, Inc	
Address: 1209 Pleasant Grove Blvd	Signature Date: 2022-12-22
City/State/Zip: Roseville CA 95678	CEA/ HERS Certification Identification (if applicable):
Phone: 916.771.0778	

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 Envelope Designer Name:	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Lighting Designer Name: Rami Zeidan	Signature:	
Company: LP Consulting Engineers, Inc		
Address: 1209 Pleasant Grove Blvd	Date Signed: 2022-12-22	
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Electrical Engineer	License #: E16762
Responsible Mechanical Designer Name: Ryan Ennis	Signature:	
Company: LP Consulting Engineers, Inc		
Address: 1209 Pleasant Grove Blvd	Date Signed: 2022-12-22	
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Mechanical Engineer	License #: M41413

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 10 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	14:46, Thu, Dec 22, 2022
Input File Name:	Building-B Russo.cibd19x		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-11-A Automatic Demand Shed Controls
	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 4 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	☐	☐
Required > 10,000 SF	Whole Building Auto Time Switch		

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Pass	Fail

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

13

Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
Boys B6	Restrooms	0.65	266	172.9	No	No
Girls B7	Restrooms	0.65	271	176.2	No	No
		TOTALS:	537	349.1	See Tables J, or P for detail	

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)					Compliance Results
	01	02	03	04	05		06	07		08		09
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Additional §140.6(c)2G (+) (See Table J)	Tailored §140.6(c)3 (+) (See Table K)	**Total Allowed** (Watts)		Total Designed (Watts) (See Table F)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-) (See Table P)		**Total Adjusted** (Watts) *Includes Adjustments		**05 must be >= 08 §140.6**
Conditioned						≥			=		≥	
Unconditioned		349.1	0		349	≥	0	0	=	0		COMPLIES
										Controls Compliance (See Table H for Details)		COMPLIES
										Rated Power Reduction Compliance (See Table Q for Details)		

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
This section does not apply to this project.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	4			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐	LZ-2: Moderate - Rural Areas	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐	LZ-1: Low - Developed Parkland	☒	LZ-3: Moderately High - Urban Areas		

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02		
☐ New Lighting System	Must Comply with Allowances from §140.7		
☒ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes	● No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☒ < 10% ☐ >= 10% and < 50% ☐ >= 50%	0	Maintain Existing Power Method per §141.0(b)2L

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 6 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-22
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 5 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no NRCA forms required for this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS
Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd,
Roseville, CA 95678
p 916-771-0778
CONSULTING ENGINEERS
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RYAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES
1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status block indicates drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
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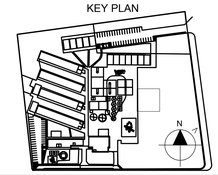
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T24.05
Drawn: KT	Checked: CD

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 4 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This table includes all existing luminaires being replaced to establish the lighting power allowance per §141.0(b)2Li or §141.0(b)2Lii. Existing luminaires that are remaining or being moved should NOT be included.

Existing Conditions Wattage:

01	02	03	04	05	06	07	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]	How is Wattage determined	# of Luminaires Being Replaced[2]	Existing Watts	Field Inspector	
						Pass	Fail
				Total Existing Watts			
				Allowance per §141.0(b)2Li :			

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12, §130.0, §130.3, §140.8, and §141.0(b)2M for sign lighting scopes using the prescriptive path. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.			
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

A. GENERAL INFORMATION

01	Project Location (city)	San Jose
02	Climate Zone	4
03	Building is a healthcare facility	**No**

B. PROJECT SCOPE

This table includes illuminated signs that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.8 or §141.0(b)2M for alterations. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.

01	02	03	04	05
Name or Item Tag	Complete Sign Description	Sign Status[1]	Sign Type	Compliance Method[2]

[1] *FOOTNOTE: Sign alterations that increase the connected lighting load, replace and rewire more that 50% of the ballasts, or relocate the sign to a different location must comply with §140.8. See §141.0(b)2M for more details.*
[2] *The ENERGY VERIFIED Label compliance method is only applicable if the sign has a permanent, factory-installed, ENERGY VERIFIED label certified by UL or comparable, confirming the sign complies with §140.8. Note that using an ENERGY VERIFIED label is an optional compliance path, not a mandatory requirement. See the tooltips for this table for more details.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables B through H. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03		04		05		06	07
Name or Item Tag (See Table B)	Complete Sign Description (See Table B)	Total Allowed (Watts) (See Table F)	≥	Total Designed (Watts) (See Table F)	OR	Compliant Light Sources (See Table G)	OR	ENERGY VERIFIED Label (See Table H)	**Compliance Results**

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 1 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	14:50, Thu, Dec 22, 2022
Input File Name:	Building-C Russo.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	San Jose	8	Standards Version	Compliance2019
2	CA Zip Code	95127	9	Compliance Software (version)	EnergyPro 8.3
3	Climate Zone	4	10	Weather File	SAN-JOSE-INTL_724945_CZ2010.epw
4	Total Conditioned Floor Area in Scope	4,808 ft²	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	541 ft²	12	Permitted Scope of Work	ExistingAlteration
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively	
Envelope (see Table G)	☒	Performance	Covered Process: Commercial Kitchens	☐ Performance	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
	☐	Not Included		☒ Not included		
Mechanical (see Table H)	☒	Performance	Covered Process: Computer Rooms	☐ Performance	Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*
	☐	Not Included		☒ Not Included	Outdoor Lighting §140.7	*NRCC-LTO-E*
Domestic Hot Water (see Table I)	☐	Performance	Covered Process: Laboratory Exhaust	☐ Performance	Sign Lighting §140.8	*NRCC -LTS-E*
	☒	Not Included		☒ Not Included	Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☐	Performance			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☒	Not Included			Electrical Power Distribution §110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐	Performance			Commissioning §120.8	*NRCC-CXR-E*
	☒	Not Included			Solar Ready §110.10	*NRCC-SRA-E*

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
									Pass	Fail
						Total Design Watts:	0			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)*

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

H. OUTDOOR LIGHTING CONTROLS

This section does not apply to this project.

I. LIGHTING POWER ALLOWANCE (per §140.7)

This section does not apply to this project.

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 6 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-22
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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Responsible Designer Name: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L												Compliance Results				
01		02		03		04		05		06		07		08		09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)		**07 must be >= 08**
0	+	---	+	---	+	---	+	---	OR	---	=	0	≥	0		COMPLIES
										Cutoff Compliance (See Table G for Details)						N/A
										Controls Compliance (See Table H for Details)						COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 5 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

F. MAXIMUM ALLOWED LIGHTING POWER AND CONTROLS

This section does not apply to this project.

G. LIGHT SOURCES AND CONTROLS

This section does not apply to this project.

H. ENERGY VERIFIED LABELED SIGNS AND CONTROLS

This section does not apply to this project.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTS-01-E - Must be submitted for all buildings	☐	☐

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to sign lighting requirements.

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS
Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd,
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITTIER No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA (wet signature required)	REGISTERED PROFESSIONAL ENGINEER RAMI ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES
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2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
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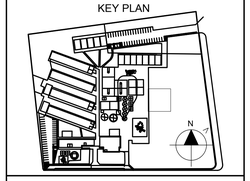
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date 04/24/2023
Project Number 22027
Application Number 01-120632
Drawing Number T24.06
Drawn KT
Checked CD

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft²)**	**Total Fenestration Area (ft²)**	**Window to Wall Ratio (%)**
North-Facing[1]	2,244 ft²	1,285 ft²	57.3%
East-Facing[2]	0 ft²	0 ft²	00.0%
South-Facing[3]	1,603 ft²	353 ft²	22.0%
West-Facing[4]	360 ft²	0 ft²	00.0%
Total	**4,207 ft²**	**1,638 ft²**	**38.9%**
Roof	4,808 ft²	0 ft²	00.0%

Notes:
[1] North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
[2] East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
[3] South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
[4] West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	**Surface Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**	**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
Slab On Grade6	UndergroundFloor	5349	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	E
Default Wall Prior to 1978	ExteriorWall	5001	Wood	0	NA	U-Factor	0.537	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.	E

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	5.1	-5.1	61.1	--	61.1
Space Cooling	10.5	7.3	3.2	--	--	--
Indoor Fans	30.0	11.4	18.6	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	0.1	0.1	0.0	38.2	38.2	0.0
Indoor Lighting	6.9	6.9	0.0	--	--	-->
Compliance Total	**47.5**	**30.8**	**16.7**	**99.3**	**38.2**	**61.1**
Receptacle	15.0	15.0	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	0.6	0.6	0.0	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**63.1**	**46.4**	**16.7**	**99.3**	**38.2**	**61.1**

D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	25.49	25.84	-0.35
Space Cooling	94.54	70.85	23.69
Indoor Fans	188.72	71.48	117.24
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	15.01	15.01	--
Indoor Lighting	40.91	40.91	--
ENERGY STANDARDS COMPLIANCE TOTAL	**364.67**	**224.09**	**140.58 (38.5%)**

[1] Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	87.74	87.74	--
Process	--	--	--
Other Ltg	3.59	3.59	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**456.00**	**315.42**	**140.6 (30.8%)**

[1] Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

H5. PUMPS

This Section Does Not Apply

H6. SYSTEM SPECIAL FEATURES

This Section Does Not Apply

H7. NONRESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	**Mechanical Ventilation**					**DCV or Occupant Sensor Controls, or Both**
	Ventilation Function	**# of people**	**Supply OA CFM**	**Exhaust CFM**	**Conditioned Area (sf)**	
1-Classroom C5	Education - Classrooms (ages 5-8)	24.20	368	0	968	NA
2-Classroom C4	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA
3-Classroom C3	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA
4-Classroom C2	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA
5-Classroom C1	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA

H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION

This Section Does Not Apply

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13
System ID	**Zone Name**	**System Type**	**Qty**	**Rated Capacity (kBtuh)**		**Airflow (cfm)**			**Fan**			
				Heating	**Cooling**	**Design**	**Min.**	**Min. Ratio**	**Power**	**Power Units**	**Cycles**	**VSD**
2-Classroom C5-VRF	1-Classroom C5	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
3-Classroom C4-VRF	2-Classroom C4	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
4-Classroom C3-VRF	3-Classroom C3	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
5-Classroom C2-VRF	4-Classroom C2	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
6-Classroom C1-VRF	5-Classroom C1	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
Equipment Name	**Equipment Type**	**Qty**	**Heating**				**Cooling**			**Economizer Type (if present)**	**Status[1]**
			Total Heating Output (kBtu/h)	**Supp Heat Output (kBtuh)**	**Efficiency Unit**	**Efficiency**	**Total Cooling Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**		
HP B-1	VRF	1	256	NA	COP	3.20	228	EER	10.60	NA	N

[1] Status: N - New, A – Altered, E – Existing

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Name or Item Tag	**Qty**	**Design OA**	**Supply Fan**					**Return Fan**					**Status[1]**
		CFM	**CFM**	**Modeling Method**	**Power**	**Power Units**	**Control**	**CFM**	**Modeling Method**	**Power**	**Power Units**	**Control**	
2-Classroom C5-VRF	1	368	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
3-Classroom C4-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
4-Classroom C3-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
5-Classroom C2-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
6-Classroom C1-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

[1] Status: N - New, A – Altered, E – Existing

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	**Surface Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**	**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
R-19 + R-11 Roof No Attic15	Roof	5349	Wood	19	11	U-Factor	0.031	Built-up roofing - 3/8 in. Vapor permeable felt - 1/8 in. Gypsum Board - 1/2 in. Compliance Insulation R11.00 Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.	A

[1] Status: N - New, A – Altered, E – Existing

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	**Fenestration Type / Product Type / Frame Type**	**Certification Method[1]**	**Assembly Method**	**Area ft²**	**Overall U-factor**	**Overall SHGC**	**Overall VT**	**Status[2]**
Single Metal Clear	VerticalFenestration FixedWindow MetalFraming	Default Performance	SiteBuilt	1669	1.19	0.83	0.77	E

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturers, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A – Altered, E – Existing

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

MEP & FS / Sustainability / CxA

CONSULTING ENGINEERS
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778

www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITE 1005 No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS No. M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES

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2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
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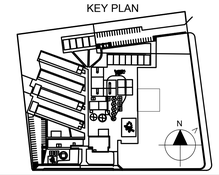
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date 04/24/2023
Project Number 22027
Application Number 01-120632
Drawing Number T24.07
Drawn KT
Checked CD

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05	06	07		08	09
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Additional §140.6(c)2G (+) (See Table J)	Tailored §140.6(c)3 (+) (See Table K)	=	**Total Allowed** (Watts)	Total Designed (Watts) (See Table F)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-) (See Table P)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 §140.6**
Conditioned					=				=		
Unconditioned		295.6	0		=	296	0	0	=	0	COMPLIES
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
This section does not apply to this project.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:52:08

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	4	05	Total Unconditioned Floor Area (ft²)	541
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Classroom ● Library ● Warehouse

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	0	Area Category Method	541
Total Area of Work (ft²)	0		541	

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:52:08

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 11 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	14:50, Thu, Dec 22, 2022
Input File Name:	Building-C Russo.cibd19x		

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

Documentation Author Name: Leonard Yalong	Signature:
Company: LP Consulting Engineers, Inc	
Address: 1209 Pleasant Grove Blvd	Signature Date: 2022-12-22
City/State/Zip: Roseville CA 95678	CEA/ HERS Certification Identification (if applicable):
Phone: 916.771.0778	

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 Envelope Designer Name:	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Lighting Designer Name: Rami Zeidan	Signature:	
Company: LP Consulting Engineers, Inc		
Address: 1209 Pleasant Grove Blvd	Date Signed: 2022-12-22	
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Electrical Engineer	License #: E16762
Responsible Mechanical Designer Name: Ryan Ennis	Signature:	
Company: LP Consulting Engineers, Inc		
Address: 1209 Pleasant Grove Blvd	Date Signed: 2022-12-22	
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Mechanical Engineer	License #: M41413

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:52:08

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 5 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no NRCA forms required for this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:52:08

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 4 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:52:08

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Pass	Fail
Required > 10,000 SF	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. *EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*								13	
								Plan Sheet Showing Daylit Zones:	

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
Boiler Rm C7	Electrical Mechancial Telephone Room	0.4	183	73.2	No	No
Book Rm C8	Library Reading Area	0.8	175	140	No	No
Custodian C9	Commercial Industrial Storage Area	0.45	183	82.4	No	No
		TOTALS:	541	295.6	See Tables J, or P for detail	

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:52:08

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

C. COMPLIANCE RESULTS
Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L											Compliance Results		
01		02		03		04		05		06		07	08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	**Total Allowed** (Watts)	≥ **Total Actual** (Watts)	**07 must be >= 08**
0	+	---	+	---	+	---	+	---	OR	---	=	0	≥ 0	COMPLIES
Cutoff Compliance (See Table G for Details)														N/A
Controls Compliance (See Table H for Details)														COMPLIES

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:52:08

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	4			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐ LZ-0: Very Low - Undeveloped Parkland		☐ LZ-2: Moderate - Rural Areas		☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐ LZ-1: Low - Developed Parkland		☒ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE
This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02		
☐ New Lighting System	Must Comply with Allowances from §140.7		
☒ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ● No		
03	04	05	
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method	
☒ < 10% ☐ >= 10% and < 50% ☐ >= 50%	0	Maintain Existing Power Method per §141.0(b)2L	

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:52:08

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 6 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

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

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-22
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 14:52:08

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS
Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RYAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES
1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
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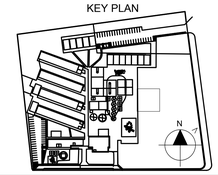
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date 04/24/2023 | Project Number 22027
Application Number 01-120632 | Drawing Number T24.08
Drawn KT | Checked CD

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 5 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 4 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This table includes all existing luminaires being replaced to establish the lighting power allowance per §141.0(b)2Li i or §141.0(b)2Lii. Existing luminaires that are remaining or being moved should NOT be included.

Existing Conditions Wattage:

01	02	03	04	05	06	07	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]	How is Wattage determined	# of Luminaires Being Replaced[2]	Existing Watts	Field Inspector	
						Pass	Fail
				Total Existing Watts			
				Allowance per §141.0(b)2L :			

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*

[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]	How is Wattage determined	Total number luminaires [2]	Luminaire Status[3]	Excluded per §140.7[a]	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b) [4]	Field Inspector	
									Pass	Fail
					Total Design Watts:		0			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*

[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*

[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*

[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)*

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

H. OUTDOOR LIGHTING CONTROLS

This section does not apply to this project.

I. LIGHTING POWER ALLOWANCE (per §140.7)

This section does not apply to this project.

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

F. MAXIMUM ALLOWED LIGHTING POWER AND CONTROLS

This section does not apply to this project.

G. LIGHT SOURCES AND CONTROLS

This section does not apply to this project.

H. ENERGY VERIFIED LABELED SIGNS AND CONTROLS

This section does not apply to this project.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTS-01-E - Must be submitted for all buildings	☐	☐

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to sign lighting requirements.

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12, §130.0, §130.3, §140.8, and §141.0(b)2M for sign lighting scopes using the prescriptive path. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.

A. GENERAL INFORMATION

01	Project Location (city)	San Jose
02	Climate Zone	4
03	Building is a healthcare facility	**No**

B. PROJECT SCOPE

This table includes illuminated signs that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.8 or §141.0(b)2M for alterations. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.

01	02	03	04	05
Name or Item Tag	Complete Sign Description	Sign Status[1]	Sign Type	Compliance Method[2]

[1] *FOOTNOTE: Sign alterations that increase the connected lighting load, replace and rewire more that 50% of the ballasts, or relocate the sign to a different location must comply with §140.8. See §141.0(b)2M for more details.*

[2] *The ENERGY VERIFIED Label compliance method is only applicable if the sign has a permanent, factory-installed, ENERGY VERIFIED label certified by UL or comparable, confirming the sign complies with §140.8. Note that using an ENERGY VERIFIED label is an optional compliance path, not a mandatory requirement. See the tooltips for this table for more details.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables B through H. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03		04		05		06	07
Name or Item Tag (See Table B)	Complete Sign Description (See Table B)	Total Allowed (Watts) (See Table F)	≥	Total Designed (Watts) (See Table F)	OR	Compliant Light Sources (See Table G)	OR	ENERGY VERIFIED Label (See Table H)	**Compliance Results**

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 6 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-22
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 2 of 12
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	15:02, Thu, Dec 22, 2022
Input File Name:	Building-D Russo.cibd19x		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	23.06	23.35	-0.29
Space Cooling	96.53	72.52	24.01
Indoor Fans	187.50	71.52	115.98
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	14.27	14.27	--
Indoor Lighting	40.91	40.91	--
ENERGY STANDARDS COMPLIANCE TOTAL	**362.27**	**222.57**	**139.70 (38.6%)**

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.*

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	74.58	74.58	--
Process	--	--	--
Other Ltg	4.24	4.24	--
Process Motors	7.98	33.00	-25.02
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**449.07**	**334.39**	**114.7 (25.5%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 1 of 12
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	15:02, Thu, Dec 22, 2022
Input File Name:	Building-D Russo.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	San Jose	8	Standards Version	Compliance2019
2	CA Zip Code	95127	9	Compliance Software (version)	EnergyPro 8.3
3	Climate Zone	4	10	Weather File	SAN-JOSE-INTL_724945_CZ2010.epw
4	Total Conditioned Floor Area in Scope	4,808 ft²	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	537 ft²	12	Permitted Scope of Work	ExistingAdditionAndAlteration
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively		
Envelope (see Table G)	☒	Performance	Covered Process: Commercial Kitchens	☐	Performance	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
	☐	Not Included		☒	Not Included		
Mechanical (see Table H)	☒	Performance	Covered Process: Computer Rooms	☐	Performance	Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*
	☐	Not Included		☒	Not Included	Outdoor Lighting §140.7	*NRCC-LTO-E*
Domestic Hot Water (see Table I)	☐	Performance	Covered Process: Laboratory Exhaust	☐	Performance	Sign Lighting §140.8	*NRCC -LTS-E*
	☒	Not Included		☒	Not Included	Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☒	Performance				*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☐	Not Included				Electrical Power Distribution §110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐	Performance				Commissioning §120.8	*NRCC-CXR-E*
	☒	Not Included				Solar Ready §110.10	*NRCC-SRA-E*

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-22
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA (with Digital Signature)	REGISTERED PROFESSIONAL ENGINEER RAMAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

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3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
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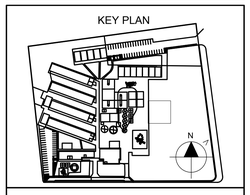
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date: 04/24/2023
Project Number: 22027
Application Number: 01-120632
Drawing Number: T24.09
Drawn: KT
Checked: CD

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
R-19 + R-11 Roof No Attic15	Roof	5345	Wood	19	11	U-Factor	0.031	Built-up roofing - 3/8 in. Vapor permeable felt - 1/8 in. Gypsum Board - 1/2 in. Compliance Insulation R11.00 Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.	A

[1] *Status: N - New, A – Altered, E – Existing*

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method[1]	Assembly Method	Area ft²	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Single Metal Clear	VerticalFenestration FixedWindow MetalFraming	Default Performance	SiteBuilt	1756	1.19	0.83	0.77	E

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*

[2] *Status: N – New, A – Altered, E – Existing*

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13
System ID	Zone Name	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
				Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
2-Classroom D5-VRF	1-Classroom D5	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
3-Classroom D4-VRF	2-Classroom D4	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
4-Classroom D3-VRF	3-Classroom D3	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
5-Classroom D2-VRF	4-Classroom D2	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐
6-Classroom D1-VRF	5-Classroom D1	VRF	1	54.00	48.00	1520	NA	NA	0.596	bhp	☐	☐

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1	2	3	4	5	6
Occupancy Type [1]	Conditioned Floor Area [2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Classroom, Lecture, Training, Vocational Areas	1,920	1,344	0	0	0
Building Totals:	**1,920**	**1,344**	**0**	**0**	**0**

[1] *See Table 140.6-C*

[2] *See NRCC-LTI-02-E for unconditioned spaces*

[3] *Lighting information for existing spaces modeled is not included in the table*

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-11-A Automatic Demand Shed Controls
	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	1,924 ft²	1,285 ft²	66.8%
East-Facing[2]	0 ft²	0 ft²	00.0%
South-Facing[3]	1,570 ft²	410 ft²	26.1%
West-Facing[4]	285 ft²	0 ft²	00.0%
Total	**3,779 ft²**	**1,695 ft²**	**44.9%**
Roof	4,808 ft²	0 ft²	00.0%

Notes:

[1] *North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).*

[2] *East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).*

[3] *South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).*

[4] *West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).*

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Slab On Grade6	UndergroundFloor	5345	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	E
Default Wall Prior to 1978	ExteriorWall	4373	Wood	0	NA	U-Factor	0.537	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.	E

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	Zone Name	Qty	CFM	Motor BHP	Power Per Flow (W/cfm)	Total Static Pressure (in. H_2O)	Status[1]

[1] *Status: N - New, A – Altered, E – Existing*

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

H5. PUMPS

This Section Does Not Apply

H6. SYSTEM SPECIAL FEATURES

This Section Does Not Apply

H7. NONRESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation					DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of people	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
1-Classroom D5	Education - Classrooms (ages 5-8)	24.20	368	0	968	NA
2-Classroom D4	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA
3-Classroom D3	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA
4-Classroom D2	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA
5-Classroom D1	Education - Classrooms (ages 5-8)	24.00	365	0	960	NA

H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION

This Section Does Not Apply

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	4.6	-4.6	55.3	--	55.3
Space Cooling	10.8	7.6	3.2	--	--	--
Indoor Fans	29.7	11.4	18.3	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	38.2	38.2	0.0
Indoor Lighting	6.9	6.9	0.0	--	--	-->
Compliance Total	**47.4**	**30.5**	**16.9**	**93.5**	**38.2**	**55.3**
Receptacle	12.7	12.7	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	0.7	0.7	0.0	--	--	--
Process Motors	1.3	5.3	-4.0	--	--	--
TOTAL	**62.1**	**49.2**	**12.9**	**93.5**	**38.2**	**55.3**

D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION

This Section Does Not Apply

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
HP D-1	VRF	1	256	NA	COP	3.20	228	EER	10.60	NA	N

[1] *Status: N - New, A – Altered, E – Existing*

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Name or Item Tag	Qty	Design OA	Supply Fan					Return Fan					Status[1]
		CFM	CFM	Modeling Method	Power	Power Units	Control	CFM	Modeling Method	Power	Power Units	Control	
2-Classroom D5-VRF	1	368	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
3-Classroom D4-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
4-Classroom D3-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
5-Classroom D2-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
6-Classroom D1-VRF	1	365	1520	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

[1] *Status: N - New, A – Altered, E – Existing*

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	Zone Name	Qty	CFM	Motor BHP	Power Per Flow (W/cfm)	Total Static Pressure (in. H_2O)	Status[1]
Boys D644	6-Boys D6	1	109	0.700	5.600	26.49	N
Girls D754	7-Girls D7	1	119	0.700	5.130	24.26	N

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

1	2
Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

4	5	6	7	8	9	10
Area Description	Area Category Primary Function Area	Area Controls 130.1(a)	Multi-Level Controls 130.1(b)	Shut-Off Controls 130.1(c)	Primary Daylighting 130.1(d)	Secondary Daylighting 140.5(d)

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

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LP CONSULTING ENGINEERS
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778

www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA (with limited liability)	REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES

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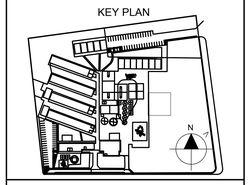
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T24.10
Drawn KT / Checked CD	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05	06	07		08	09
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Additional §140.6(c)2G (+) (See Table J)	Tailored §140.6(c)3 (+) (See Table K)	=	**Total Allowed** (Watts)	Total Designed (Watts) (See Table F)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-) (See Table P)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 §140.6**
Conditioned					=				=		
Unconditioned		349.1	0		=	349	0	0	=	0	COMPLIES
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
This section does not apply to this project.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 15:03:01

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	4	05	Total Unconditioned Floor Area (ft²)	537
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Classroom ● Support Areas

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	0	Area Category Method	537
Total Area of Work (ft²)	0		537	

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 15:03:01

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 12 of 12
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	15:02, Thu, Dec 22, 2022
Input File Name:	Building-D Russo.cibd19x		

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

Documentation Author Name: Leonard Yalong	Signature:
Company: LP Consulting Engineers, Inc	
Address: 1209 Pleasant Grove Blvd	Signature Date: 2022-12-22
City/State/Zip: Roseville CA 95678	CEA/ HERS Certification Identification (if applicable):
Phone: 916.771.0778	

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.
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Responsible Envelope Designer Name:	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Lighting Designer Name: Rami Zeidan	Signature:	
Company: LP Consulting Engineers, Inc		
Address: 1209 Pleasant Grove Blvd	Date Signed: 2022-12-22	
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Electrical Engineer	License #: E16762
Responsible Mechanical Designer Name: Ryan Ennis	Signature:	
Company: LP Consulting Engineers, Inc		
Address: 1209 Pleasant Grove Blvd	Date Signed: 2022-12-22	
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Mechanical Engineer	License #: M41413

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance | Report Version: NRCC-PRF-01-E-12092021-6844 | Report Generated at: 2022-12-22 15:02:29

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 5 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no NRCA forms required for this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 15:03:01

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 4 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 15:03:01

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Pass	Fail
Required > 10,000 SF	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. *EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*							13	Plan Sheet Showing Daylit Zones:	

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
Boys D6	Restrooms	0.65	266	172.9	No	No
Girls D7	Restrooms	0.65	271	176.2	No	No
		TOTALS:	537	349.1	See Tables J, or P for detail	

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 15:03:01

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

C. COMPLIANCE RESULTS
Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L											Compliance Results		
01		02		03		04		05		06		07	08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	**Total Allowed** (Watts)	≥ **Total Actual** (Watts)	**07 must be >= 08**
0	+	---	+	---	+	---	+	---	OR	---	=	0	≥ 0	COMPLIES
Cutoff Compliance (See Table G for Details)														N/A
Controls Compliance (See Table H for Details)														COMPLIES

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 15:03:00

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	4			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐ LZ-0: Very Low - Undeveloped Parkland		☐ LZ-2: Moderate - Rural Areas		☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐ LZ-1: Low - Developed Parkland		☒ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE
This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02		
☐ New Lighting System	Must Comply with Allowances from §140.7		
☒ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ● No		
03	04	05	
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method	
☒ < 10% ☐ >= 10% and < 50% ☐ >= 50%	0	Maintain Existing Power Method per §141.0(b)2L	

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 15:03:00

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 6 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

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

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-22
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-22 15:03:01

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RYAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES
1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
4. Copyright Studio W Associates, Inc. 2023.

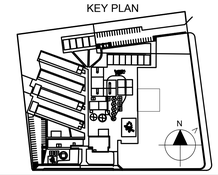
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date 04/24/2023 | Project Number 22027
Application Number 01-120632 | Drawing Number T24.11
Drawn KT | Checked CD

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 5 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 4 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This table includes all existing luminaires being replaced to establish the lighting power allowance per §141.0(b)2Li or §141.0(b)2Lii. Existing luminaires that are remaining or being moved should NOT be included.

Existing Conditions Wattage:

01	02	03	04	05	06	07	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]	How is Wattage determined	# of Luminaires Being Replaced[2]	Existing Watts	Field Inspector Pass	Fail
				Total Existing Watts			
				Allowance per §141.0(b)2L :			

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*

[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Fail
NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2I, only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1, 2]	How is Wattage determined	Total number luminaires [2]	Luminaire Status[3]	Excluded per §140.7[a]	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b) [4]	Field Inspector Pass	Fail
						Total Design Watts:	0			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*

[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*

[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*

[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)*

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

H. OUTDOOR LIGHTING CONTROLS

This section does not apply to this project.

I. LIGHTING POWER ALLOWANCE (per §140.7)

This section does not apply to this project.

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

F. MAXIMUM ALLOWED LIGHTING POWER AND CONTROLS

This section does not apply to this project.

G. LIGHT SOURCES AND CONTROLS

This section does not apply to this project.

H. ENERGY VERIFIED LABELED SIGNS AND CONTROLS

This section does not apply to this project.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Fail
NRCI-LTS-01-E - Must be submitted for all buildings	☐	☐

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to sign lighting requirements.

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12, §130.0, §130.3, §140.8, and §141.0(b)2M for sign lighting scopes using the prescriptive path. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.			
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

A. GENERAL INFORMATION

01	Project Location (city)	San Jose
02	Climate Zone	4
03	Building is a healthcare facility	**No**

B. PROJECT SCOPE

This table includes illuminated signs that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.8 or §141.0(b)2M for alterations. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.

01	02	03	04	05
Name or Item Tag	Complete Sign Description	Sign Status[1]	Sign Type	Compliance Method[2]

[1] *FOOTNOTE: Sign alterations that increase the connected lighting load, replace and rewire more that 50% of the ballasts, or relocate the sign to a different location must comply with §140.8. See §141.0(b)2M for more details.*

[2] *The ENERGY VERIFIED Label compliance method is only applicable if the sign has a permanent, factory-installed, ENERGY VERIFIED label certified by UL or comparable, confirming the sign complies with §140.8. Note that using an ENERGY VERIFIED label is an optional compliance path, not a mandatory requirement. See the tooltips for this table for more details.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables B through H. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03		04		05		06	07
Name or Item Tag (See Table B)	Complete Sign Description (See Table B)	Total Allowed (Watts) (See Table F)	≥	Total Designed (Watts) (See Table F)	OR	Compliant Light Sources (See Table G)	OR	ENERGY VERIFIED Label (See Table H)	**Compliance Results**

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 6 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-22
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 2 of 9
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	09:36, Wed, Dec 07, 2022
Input File Name:	Building-Admin Russo.cibd19x		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	19.00	6.95	12.05
Space Cooling	58.67	62.43	-3.76
Indoor Fans	142.50	73.73	68.77
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	18.67	18.67	--
Indoor Lighting	40.01	40.01	--
ENERGY STANDARDS COMPLIANCE TOTAL	**278.85**	**201.79**	**77.06 (27.6%)**

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.*

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	86.11	86.11	--
Process	--	--	--
Other Ltg	1.35	1.35	--
Process Motors	1.78	3.24	-1.46
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**368.09**	**292.49**	**75.6 (20.5%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 1 of 9
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	09:36, Wed, Dec 07, 2022
Input File Name:	Building-Admin Russo.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	San Jose	8	Standards Version	Compliance2019
2	CA Zip Code	95127	9	Compliance Software (version)	EnergyPro 8.3
3	Climate Zone	4	10	Weather File	SAN-JOSE-INTL_724945_CZ2010.epw
4	Total Conditioned Floor Area in Scope	3,497 ft²	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	124 ft²	12	Permitted Scope of Work	ExistingAlteration
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively		
Envelope (see Table G)	☐	Performance	Covered Process: Commercial Kitchens	☐	Performance	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*		
	☒	Not Included		☒	Not Included			
Mechanical (see Table H)	☒	Performance	Covered Process: Computer Rooms	☐	Performance	Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*	
	☐	Not Included		☒	Not Included	Outdoor Lighting §140.7	*NRCC-LTO-E*	
Domestic Hot Water (see Table I)	☐	Performance	Covered Process: Laboratory Exhaust	☐	Performance	Sign Lighting §140.8	*NRCC -LTS-E*	
	☒	Not Included		☒	Not Included	Mandatory Measures		
Lighting (Indoor Conditioned, see Table K)	☐	Performance				*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*		
	☒	Not Included				Electrical Power Distribution §110.11	*NRCC-ELC-E*	
Solar Thermal Water Heating (see Table I)	☐	Performance				Commissioning §120.8	*NRCC-CXR-E*	
	☒	Not Included				Solar Ready §110.10	*NRCC-SRA-E*	

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/22/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-22
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-22
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITFIELD No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA (with limited liability)	REGISTERED PROFESSIONAL ENGINEER RAMON ENRIQUE ENRIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES

1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
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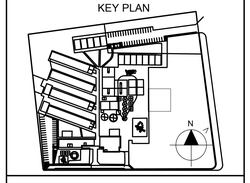
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T24.12
Drawn KT	Checked CD

H5. PUMPS

This Section Does Not Apply

H6. SYSTEM SPECIAL FEATURES

This Section Does Not Apply

H7. NONRESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation					DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of people	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
1-Kindergarten K2	Education - Classrooms (ages 5-8)	30.20	459	0	1208	NA
2-Kindergarten K1	Education - Classrooms (ages 5-8)	30.20	459	0	1208	NA
3-Office Area	Office - Office space	5.41	162	0	1081	NA

H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION

This Section Does Not Apply

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13
System ID	Zone Name	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
				Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
2-Kindergarten K2-VRF	1-Kindergarten K2	VRF	1	54.00	48.00	1520	NA	NA	0.750	bhp	☐	☐
3-Kindergarten K1-VRF	2-Kindergarten K1	VRF	1	54.00	48.00	1520	NA	NA	0.750	bhp	☐	☐
4-Office Area-VRF	3-Office Area	VRF	1	54.00	48.00	1520	NA	NA	0.750	bhp	☐	☐

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
HP AD-2	VRF	1	54	NA	COP	9.30	48	EER	9.50	NA	N
HP AD-3	VRF	1	54	NA	COP	9.30	48	EER	9.50	NA	N

[1] Status: N - New, A – Altered, E – Existing

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Name or Item Tag	Qty	Design OA		Supply Fan				Return Fan					Status[1]
		CFM	CFM	Modeling Method	Power	Power Units	Control	CFM	Modeling Method	Power	Power Units	Control	
2-Kindergarten K2-VRF	1	459	1520	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
3-Kindergarten K1-VRF	1	459	1520	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
4-Office Area-VRF	1	162	1520	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

[1] Status: N - New, A – Altered, E – Existing

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	Zone Name	Qty	CFM	Motor BHP	Power Per Flow (W/cfm)	Total Static Pressure (in. H_2O)	Status[1]
Restrooms46	4-Restrooms	1	100	0.100	0.872	4.12	E

[1] Status: N - New, A – Altered, E – Existing

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	1.0	-1.0	33.3	--	33.3
Space Cooling	4.4	4.6	-0.2	--	--	--
Indoor Fans	16.5	8.5	8.0	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	0.9	0.9	0.0	22.3	22.3	0.0
Indoor Lighting	4.9	4.9	0.0	--	--	-->
Compliance Total	**26.7**	**19.9**	**6.8**	**55.6**	**22.3**	**33.3**
Receptacle	10.7	10.7	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	0.2	0.2	0.0	--	--	--
Process Motors	0.2	0.4	-0.2	--	--	--
TOTAL	**37.8**	**31.2**	**6.6**	**55.6**	**22.3**	**33.3**

D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION

This Section Does Not Apply

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
HP AD-1	VRF	1	54	NA	COP	9.30	48	EER	9.50	NA	N

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05	06	07		08	09
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Additional §140.6(c)2G (+) (See Table J)	Tailored §140.6(c)3 (+) (See Table K)	=	Total Allowed (Watts)	≥ Total Designed (Watts) (See Table F)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-) (See Table P)	=	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 §140.6
Conditioned					=		≥			=	
Unconditioned		80.6	0		=	81	≥ 0	0	=	0	COMPLIES
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This section does not apply to this project.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-12-07 09:37:01

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	4	05	Total Unconditioned Floor Area (ft²)	124
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Classroom ● Office ● Support Areas

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	0	Area Category Method	124
Total Area of Work (ft²)	0		124	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-12-07 09:37:01

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Signature:
Company: LP Consulting Engineers, Inc	
Address: 1209 Pleasant Grove Blvd	Signature Date: 2022-12-07
City/State/Zip: Roseville CA 95678	CEA/ HERS Certification Identification (if applicable):
Phone: 916.771.0778	

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 Envelope Designer Name:	Signature: NOT IN SCOPE	
Company:	Date Signed:	
Address:		
City/State/Zip:		
Phone:	Title:	License #:
Responsible Lighting Designer Name: Rami Zeidan	Signature:	
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-07	
Address: 1209 Pleasant Grove Blvd		
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Electrical Engineer	License #: E16762
Responsible Mechanical Designer Name: Ryan Ennis	Signature:	
Company: LP Consulting Engineers, Inc		
Address: 1209 Pleasant Grove Blvd	Date Signed: 2022-12-07	
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Mechanical Engineer	License #: M41413

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RYAN ENNIS M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES

1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
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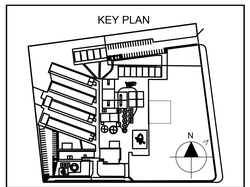
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY

2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T24.13
Drawn KT	Checked CD

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 5 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L											Compliance Results		
01		02		03		04		05	OR	06		07		08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
0	+	---	+	---	+	---	+	---	OR	---	=	0	≥	0	COMPLIES
										Cutoff Compliance (See Table G for Details)					N/A
										Controls Compliance (See Table H for Details)					COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 4 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	4			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐	LZ-2: Moderate - Rural Areas	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐	LZ-1: Low - Developed Parkland	☒	LZ-3: Moderately High - Urban Areas		

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01		02		
☐	New Lighting System	Must Comply with Allowances from §140.7		
☒	Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes	● No
03		04	05	
% of Existing Luminaires Being Altered[1]		Sum Total of Luminaires Being Added or Altered	Calculation Method	
☒ < 10%	☐ >= 10% and < 50% ☐ >= 50%	0	Maintain Existing Power Method per §141.0(b)2L	

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 5 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 4 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This table includes all existing luminaires being replaced to establish the lighting power allowance per §141.0(b)2Lii or §141.0(b)2Liii. Existing luminaires that are remaining or being moved should NOT be included.

Existing Conditions Wattage:

01	02	03	04	05	06	07	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]	How is Wattage determined	# of Luminaires Being Replaced[2]	Existing Watts	Field Inspector	
						Pass	Fail
				Total Existing Watts			
				Allowance per §141.0(b)2L :			

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 6)
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)		
Required > 10,000 SF	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. *EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*								13 Plan Sheet Showing Daylit Zones:	

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Restrooms	Restrooms	0.65	124	80.6	No	No
		TOTALS:	124	80.6	See Tables J, or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 6 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-07
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-07
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
									Pass	Fail
						Total Design Watts:	0			

** NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

H. OUTDOOR LIGHTING CONTROLS

This section does not apply to this project.

I. LIGHTING POWER ALLOWANCE (per §140.7)

This section does not apply to this project.

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS
Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA (with limited liability)	REGISTERED PROFESSIONAL ENGINEER RAMAN ENNIS No. M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES
1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
4. Copyright Studio W Associates, Inc. 2023.

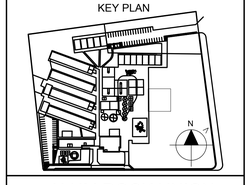
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

		DATE
○	DSA PLAN CHECK	12/23/2022
●	DSA BACK CHECK	04/24/2023
○	BIDDING	
○	CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T24.14
Drawn: KT — Checked: CD	

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

F. MAXIMUM ALLOWED LIGHTING POWER AND CONTROLS
This section does not apply to this project.

G. LIGHT SOURCES AND CONTROLS
This section does not apply to this project.

H. ENERGY VERIFIED LABELED SIGNS AND CONTROLS
This section does not apply to this project.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTS-01-E - Must be submitted for all buildings	☐	☐

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no Certificates of Acceptance applicable to sign lighting requirements.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-07 09:37:01

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 2 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	07:50, Thu, Dec 08, 2022
Input File Name:	Building - Multipurpose Russo.cibd19x		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	10.21	36.22	-26.01
Space Cooling	80.09	72.19	7.90
Indoor Fans	159.94	97.27	62.67
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	8.29	8.29	--
Indoor Lighting	81.47	81.47	--
ENERGY STANDARDS COMPLIANCE TOTAL	**340.00**	**295.44**	**44.56 (13.1%)**

[1] Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]
☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	153.92	153.92	--
Process	69.56	69.56	--
Other Ltg	20.58	20.58	--
Process Motors	2.41	7.53	-5.12
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**586.47**	**547.03**	**39.4 (6.7%)**

[1] Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance | Report Version: NRCC-PRF-01-E-12092021-6844 | Report Generated at: 2022-12-08 07:51:06

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12, §130.0, §130.3, §140.8, and §141.0(b)2M for sign lighting scopes using the prescriptive path. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.			
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

A. GENERAL INFORMATION

01	Project Location (city)	San Jose
02	Climate Zone	4
03	Building is a healthcare facility	**No**

B. PROJECT SCOPE
This table includes illuminated signs that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.8 or §141.0(b)2M for alterations. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.

01	02	03	04	05
Name or Item Tag	Complete Sign Description	Sign Status[1]	Sign Type	Compliance Method[2]

[1] FOOTNOTE: Sign alterations that increase the connected lighting load, replace and rewire more that 50% of the ballasts, or relocate the sign to a different location must comply with §140.8. See §141.0(b)2M for more details.
[2] The ENERGY VERIFIED Label compliance method is only applicable if the sign has a permanent, factory-installed, ENERGY VERIFIED label certified by UL or comparable, confirming the sign complies with §140.8. Note that using an ENERGY VERIFIED label is an optional compliance path, not a mandatory requirement. See the tooltips for this table for more details.

C. COMPLIANCE RESULTS
Results in this table are automatically calculated from data input and calculations in Tables B through H. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03		04		05		06	07
Name or Item Tag (See Table B)	Complete Sign Description (See Table B)	Total Allowed (Watts) (See Table F)	≥	Total Designed (Watts) (See Table F)	OR	Compliant Light Sources (See Table G)	OR	ENERGY VERIFIED Label (See Table H)	**Compliance Results**

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-07 09:37:01

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 1 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	07:50, Thu, Dec 08, 2022
Input File Name:	Building - Multipurpose Russo.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	San Jose	8	Standards Version	Compliance2019
2	CA Zip Code	95127	9	Compliance Software (version)	EnergyPro 8.3
3	Climate Zone	4	10	Weather File	SAN-JOSE-INTL_724945_CZ2010.epw
4	Total Conditioned Floor Area in Scope	3,962 ft²	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	1,116 ft²	12	Permitted Scope of Work	ExistingAdditionAndAlteration
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY
Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively		
Envelope (see Table G)	☒	Performance	Covered Process: Commercial Kitchens	☐ Performance	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*		
	☐	Not Included		☒ Not Included			
Mechanical (see Table H)	☒	Performance	Covered Process: Computer Rooms	☐ Performance	Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*	
	☐	Not Included		☒ Not Included	Outdoor Lighting §140.7	*NRCC-LTO-E*	
Domestic Hot Water (see Table I)	☐	Performance	Covered Process: Laboratory Exhaust	☐ Performance	Sign Lighting §140.8	*NRCC -LTS-E*	
	☒	Not Included		☒ Not Included	Mandatory Measures		
Lighting (Indoor Conditioned, see Table K)	☒	Performance			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*		
	☐	Not Included			Electrical Power Distribution §110.11	*NRCC-ELC-E*	
Solar Thermal Water Heating (see Table I)	☐	Performance			Commissioning §120.8	*NRCC-CXR-E*	
	☒	Not Included			Solar Ready §110.10	*NRCC-SRA-E*	

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance | Report Version: NRCC-PRF-01-E-12092021-6844 | Report Generated at: 2022-12-08 07:51:06

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 6 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

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

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-07
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-07
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-07 09:37:01

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 3)
Project Address:	2851 Gay Ave	Date Prepared:	12/7/2022

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

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-07
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-07
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-07 09:37:01

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 5 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	07:50, Thu, Dec 08, 2022
Input File Name:	Building - Multipurpose Russo.cibd19x		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Area (ft²)	4 Framing Type	5 Cavity R-Value	6 Continuous R-Value	7 Units	8 Value	9 Description of Assembly Layers	10 Status[1]
R-19 + R-11 Roof No Attic14	Roof	5078	Wood	19	11	U-Factor	0.031	Built-up roofing - 3/8 in. Vapor permeable felt - 1/8 in. Gypsum Board - 1/2 in. Compliance Insulation R11.00 Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.	A
R-0 Wall57	InteriorWall	3	NA	0	NA	U-Factor	0.337	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	E

[1] Status: N - New, A – Altered, E – Existing

G5. FENESTRATION ASSEMBLY SUMMARY

1 Fenestration Assembly Name / Tag or I.D.	2 Fenestration Type / Product Type / Frame Type	3 Certification Method[1]	4 Assembly Method	5 Area ft²	6 Overall U-factor	7 Overall SHGC	8 Overall VT	9 Status[2]
Single Metal Clear	VerticalFenestration FixedWindow MetalFraming	Default Performance	SiteBuilt	421	1.19	0.83	0.77	E

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A – Altered, E – Existing

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance | Report Version: NRCC-PRF-01-E-12092021-6844 | Report Generated at: 2022-12-08 07:51:06

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 4 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	07:50, Thu, Dec 08, 2022
Input File Name:	Building - Multipurpose Russo.cibd19x		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1 Opaque Surfaces & Orientation	2 Total Gross Surface Area (ft²)	3 Total Fenestration Area (ft²)	4 Window to Wall Ratio (%)
North-Facing[1]	1,160 ft²	319 ft²	27.5%
East-Facing[2]	1,090 ft²	0 ft²	00.0%
South-Facing[3]	279 ft²	0 ft²	00.0%
West-Facing[4]	1,090 ft²	0 ft²	00.0%
Total	**3,619 ft²**	**319 ft²**	**08.8%**
Roof	3,962 ft²	0 ft²	00.0%

Notes:
[1] North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
[2] East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
[3] South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
[4] West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Area (ft²)	4 Framing Type	5 Cavity R-Value	6 Continuous R-Value	7 Units	8 Value	9 Description of Assembly Layers	10 Status[1]
Slab On Grade6	UndergroundFloor	5078	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	E
Default Wall Prior to 1978	ExteriorWall	4440	Wood	0	NA	U-Factor	0.537	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.	E

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance | Report Version: NRCC-PRF-01-E-12092021-6844 | Report Generated at: 2022-12-08 07:51:06

Project Name:	Alum Rock Union Elementary School	NRCC-PRF-01-E	Page 3 of 11
Project Address:	2851 Gay Ave San Jose 95127	Calculation Date/Time:	07:50, Thu, Dec 08, 2022
Input File Name:	Building - Multipurpose Russo.cibd19x		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	5.9	-5.9	19.8	--	19.8
Space Cooling	5.9	5.5	0.4	--	--	--
Indoor Fans	19.7	13.2	6.5	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	0.8	0.8	0.0	6.9	6.9	0.0
Indoor Lighting	10.9	10.9	0.0	--	--	-->
Compliance Total	**37.3**	**36.3**	**1.0**	**26.7**	**6.9**	**19.8**
Receptacle	20.5	20.5	0.0	--	--	--
Process	10.0	10.0	0.0	--	--	--
Other Ltg	2.7	2.7	0.0	--	--	--
Process Motors	0.3	1.0	-0.7	--	--	--
TOTAL	**70.8**	**70.5**	**0.3**	**26.7**	**6.9**	**19.8**

D. EXCEPTIONAL CONDITIONS
The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION
This Section Does Not Apply

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance | Report Version: NRCC-PRF-01-E-12092021-6844 | Report Generated at: 2022-12-08 07:51:06

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMON ENNIS ZAMORA M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES
1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
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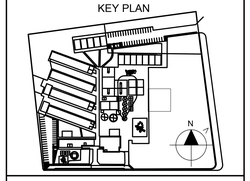
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date 04/24/2023
Project Number 22027
Application Number 01-120632
Drawing Number T24.15
Drawn KT
Checked CD

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1	2	3	4	5	6
Occupancy Type [1]	Conditioned Floor Area [2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Convention, Conference, Multipurpose and Meeting Area	3,167	2,692	0	0	0
Classroom, Lecture, Training, Vocational Areas	795	557	0	0	0
Building Totals:	**3,962**	**3,249**	**0**	**0**	**0**

[1] *See Table 140.6-C*
[2] *See NRCC-LTI-01-E for unconditioned spaces*
[3] *Lighting information for existing spaces modeled is not included in the table*

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

1	2
Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

4	5	6	7	8	9	10
Area Description	Area Category Primary Function Area	Area Controls 130.1(a)	Multi-Level Controls 130.1(b)	Shut-Off Controls 130.1(c)	Primary Daylighting 130.1(d)	Secondary Daylighting 130.1(d)

H6. SYSTEM SPECIAL FEATURES

This Section Does Not Apply

H7. NONRESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation					DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of people	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
1-Multi-Purpose Room A01	Education - Multiuse assembly	105.57	1584	0	3167	NA
2-Stage	Education - Multiuse assembly	19.88	398	0	795	NA

H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION

This Section Does Not Apply

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13
System ID	Zone Name	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
				Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
2-Multi-Purpose Room A01-VRF	1-Multi-Purpose Room A01	VRF	2	60.00	54.00	1800	NA	NA	1.000	bhp	☐	☐
3-Stage-VRF	2-Stage	VRF	1	27.00	24.00	688	NA	NA	0.596	bhp	☐	☐

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling				Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	
HP B-1	VRF	1	154	NA	COP	3.30	138	EER	12.00	NA	N

[1] *Status: N - New, A – Altered, E – Existing*

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Name or Item Tag	Qty	Design OA	Supply Fan					Return Fan					Status[1]
		CFM	CFM	Modeling Method	Power	Power Units	Control	CFM	Modeling Method	Power	Power Units	Control	
2-Multi-Purpose Room A01-VRF	2	792	1800	BrakeHorsePower	1.000	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
3-Stage-VRF	1	398	688	BrakeHorsePower	0.596	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

[1] *Status: N - New, A – Altered, E – Existing*

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	Zone Name	Qty	CFM	Motor BHP	Power Per Flow (W/cfm)	Total Static Pressure (in. H_2O)	Status[1]
Toilet A0330	4-Toilet A03	1	86	0.200	2.028	9.59	N

[1] *Status: N - New, A – Altered, E – Existing*

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

H5. PUMPS

This Section Does Not Apply

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Signature:
Company: LP Consulting Engineers, Inc	
Address: 1209 Pleasant Grove Blvd	Signature Date: 2022-12-08
City/State/Zip: Roseville CA 95678	CEA/ HERS Certification Identification (if applicable):
Phone: 916.771.0778	

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 Envelope Designer Name:	Signature:	
Company:	Date Signed:	
Address:		
City/State/Zip:		
Phone:	Title:	License #:
Responsible Lighting Designer Name: Rami Zeidan	Signature:	
Company: LP Consulting Engineers, Inc		
Address: 1209 Pleasant Grove Blvd	Date Signed: 2022-12-08	
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Electrical Engineer	License #: E16762
Responsible Mechanical Designer Name: Ryan Ennis	Signature:	
Company: LP Consulting Engineers, Inc		
Address: 1209 Pleasant Grove Blvd	Date Signed: 2022-12-08	
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Mechanical Engineer	License #: M41413

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-11-A Automatic Demand Shed Controls
	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Russo-Mcentee Academy	**Report Page:**	**(Page 3 of 6)**
Project Address:	2851 Gay Ave	**Date Prepared:**	12/8/2022

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)		
Required > 10,000 SF	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*					13				
					Plan Sheet Showing Daylit Zones:				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Mech Room A02	Electrical Mechancial Telephone Room	0.4	149	59.6	No	No
Toilet A03	Restrooms	0.65	86	55.9	No	No
Kitchen A04	Kitchen/ Food Preparation Area	0.95	588	558.6	No	No
Walk-In Frig. A07	Warehouse	0.45	61	27.4	No	No

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-12-08 07:58:08

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Russo-Mcentee Academy	**Report Page:**	**(Page 4 of 6)**
Project Address:	2851 Gay Ave	**Date Prepared:**	12/8/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05	06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	=	**Total Allowed** (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 §140.6**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned					=				=		
Unconditioned		820.6	0		=	821	0	0	=	0	COMPLIES
								Controls Compliance (See Table H for Details)			COMPLIES
								Rated Power Reduction Compliance (See Table Q for Details)			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This section does not apply to this project.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-12-08 07:58:08

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Russo-Mcentee Academy	**Report Page:**	**(Page 1 of 6)**
Project Address:	2851 Gay Ave	**Date Prepared:**	12/8/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	
02	Climate Zone	4	
03	Occupancy Types Within Project (select all that apply):		
	● Classroom ● Convention Center ● Support Areas ● Warehouse		
04	Total Conditioned Floor Area (ft²)	0	
05	Total Unconditioned Floor Area (ft²)	1,116	
06	# of Stories (Habitable Above Grade)	1	

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	0	Area Category Method	1116
Total Area of Work (ft²)	0		1116	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-12-08 07:58:08

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DATE: 5/5/2023

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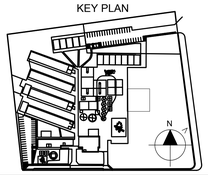
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date	Project Number
04/24/2023	22027
Application Number	Drawing Number
01-120632	T24.16
Drawn KT	Checked CD

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 6 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/8/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Leonard Yalong	
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-08
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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:	Responsible Designer Signature:
Rami Zeidan	
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-08
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-08 07:58:08

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 5 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/8/2022

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-08 07:58:08

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 4 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/8/2022

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Corridor	Corridor Area	0.6	98	58.8	No	No
Misc Storage	Commercial Industrial Storage Area	0.45	134	60.3	No	No
		TOTALS:	1,116	820.6	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-08 07:58:08

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 3 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/8/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1, 2]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req: > 6,200 initial lumen output §130.2(b) [4]	Field Inspector	
									Pass	Fail
						Total Design Watts:	0			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*

[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*

[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*

[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)*

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

H. OUTDOOR LIGHTING CONTROLS

This section does not apply to this project.

I. LIGHTING POWER ALLOWANCE (per §140.7)

This section does not apply to this project.

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-08 07:58:08

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 2 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/8/2022

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L												Compliance Results		
01		02		03		04		05	OR	06	=	07	≥	08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 must be >= 08
0	+	---	+	---	+	---	+	---	OR	---	=	0	≥	0	COMPLIES
Cutoff Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-08 07:58:08

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 1 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/8/2022

A. GENERAL INFORMATION

01	Project Location (city)	San Jose			
02	Climate Zone	4	04	Total Illuminated Hardscape Area (ft²)	0
03	Outdoor Lighting Zone per Title 24 Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐	LZ-2: Moderate - Rural Areas	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐	LZ-1: Low - Developed Parkland	☒	LZ-3: Moderately High - Urban Areas		

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01		02	
☐	New Lighting System	Must Comply with Allowances from §140.7	
☒	Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes ● No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☒ < 10% ☐ >= 10% and < 50% ☐ >= 50%	0	Maintain Existing Power Method per §141.0(b)2L

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-08 07:58:08

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 4 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/8/2022

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This table includes all existing luminaires being replaced to establish the lighting power allowance per §141.0(b)2Lii or §141.0(b)2Liii. Existing luminaires that are remaining or being moved should NOT be included.

Existing Conditions Wattage:

01	02	03	04	05	06	07	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]	How is Wattage determined	# of Luminaires Being Replaced[2]	Existing Watts	Field Inspector	
						Pass	Fail
				Total Existing Watts			
				Allowance per §141.0(b)2L :			

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*

[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-08 07:58:08

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Russo-Mcentee Academy	Report Page:	(Page 5 of 6)
Project Address:	2851 Gay Ave	Date Prepared:	12/8/2022

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-08 07:58:08

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong
Documentation Author Signature:
Company: LP Consulting Engineers, Inc
Signature Date: 2022-12-08
Address: 1209 Pleasant Grove Blvd
CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678
Phone: 916.771.0778

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: Rami Zeidan
Responsible Designer Signature:
Company: LP Consulting Engineers, Inc
Date Signed: 2022-12-08
Address: 1209 Pleasant Grove Blvd
License: E16762
City/State/Zip: Roseville CA 95678
Phone: 916-771-0778

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT — BRYAN P. WHITNEY — No. C 30345 Ren. 9/30/23 — STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER — BRYAN ENNIS — M 41413 REN. 03-31-23 — MECHANICAL — STATE OF CALIFORNIA

GENERAL NOTES
1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
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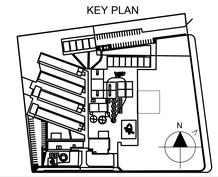
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date 04/24/2023
Project Number 22027
Application Number 01-120632
Drawing Number T24.17
Drawn KT
Checked CD

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTS-E**
Project Name:	Russo-Mcentee Academy	**Report Page:**	**(Page 3 of 3)**
Project Address:	2851 Gay Ave	**Date Prepared:**	12/8/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Leonard Yalong	Documentation Author Signature:
Company: LP Consulting Engineers, Inc	Signature Date: 2022-12-08
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers, Inc	Date Signed: 2022-12-08
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

Registration Number:
Registration Date/Time:
Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.1.003
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STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTS-E**
Project Name:	Russo-Mcentee Academy	**Report Page:**	**(Page 2 of 3)**
Project Address:	2851 Gay Ave	**Date Prepared:**	12/8/2022

F. MAXIMUM ALLOWED LIGHTING POWER AND CONTROLS

This section does not apply to this project.

G. LIGHT SOURCES AND CONTROLS

This section does not apply to this project.

H. ENERGY VERIFIED LABELED SIGNS AND CONTROLS

This section does not apply to this project.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTS-01-E - Must be submitted for all buildings	☐	☐

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to sign lighting requirements.

Registration Number:
Registration Date/Time:
Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.1.003
Schema Version: rev 20200601
Report Generated: 2022-12-08 07:58:08

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTS-E**
Project Name:	Russo-Mcentee Academy	**Report Page:**	**(Page 1 of 3)**
Project Address:	2851 Gay Ave	**Date Prepared:**	12/8/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12, §130.0, §130.3, §140.8, and §141.0(b)2M for sign lighting scopes using the prescriptive path. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.

A. GENERAL INFORMATION

01	Project Location (city)	San Jose
02	Climate Zone	4
03	Building is a healthcare facility	**No**

B. PROJECT SCOPE

This table includes illuminated signs that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.8 or §141.0(b)2M for alterations. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.

01	02	03	04	05
Name or Item Tag	Complete Sign Description	Sign Status[1]	Sign Type	Compliance Method[2]

[1]*FOOTNOTE: Sign alterations that increase the connected lighting load, replace and rewire more that 50% of the ballasts, or relocate the sign to a different location must comply with §140.8. See §141.0(b)2M for more details.*
[2]*The ENERGY VERIFIED Label compliance method is only applicable if the sign has a permanent, factory-installed, ENERGY VERIFIED label certified by UL or comparable, confirming the sign complies with §140.8. Note that using an ENERGY VERIFIED label is an optional compliance path, not a mandatory requirement. See the tooltips for this table for more details.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables B through H. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03		04		05		06	07
Name or Item Tag (See Table B)	Complete Sign Description (See Table B)	Total Allowed (Watts) (See Table F)	≥	Total Designed (Watts) (See Table F)	OR	Compliant Light Sources (See Table G)	OR	ENERGY VERIFIED Label (See Table H)	**Compliance Results**

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number:
Registration Date/Time:
Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.1.003
Schema Version: rev 20200601
Report Generated: 2022-12-08 07:58:08

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-120632 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 5/5/2023

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
[T] 916.254.5600
www.StudioW-Architects.com

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2173

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER RAMI ZEIDAN M 41413 REN. 03-31-23 MECHANICAL STATE OF CALIFORNIA

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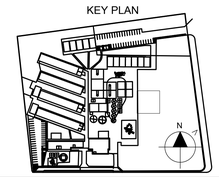
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	12/23/2022
● DSA BACK CHECK	04/24/2023
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

RUSSO-MCENTEE ACADEMY
2851 GAY AVE.,
SAN JOSE, CA 95127

TITLE 24 CALCULATIONS

Date 04/24/2023	Project Number 22027
Application Number 01-120632	Drawing Number T24.18
Drawn KT	Checked CD