ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

DSA File No. 43-4
App. No. 01-120630
PTN. 69639-90



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.

Include a note "Fire safety during construction & demolition will be enforced in accordance with CBC & CFC Chapter 33."

DEFERRED APPROVALS

1. NONE

ADD ALTERNATES

1. NONE

2022

CODES AND REGULATIONS

APPLICABLE STATE CODES AND REGULATIONS WITH LATEST AMENDMENTS AND SUPPLEMENTS:

1. 2019 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), 2016 EDITION
18. NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED), 2016 EDITION
19. NFPA 80, FIRE DOOR AND OTHER OPENING PROTECTIVES, 2016 EDITION
20. NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2019 CBC (SFM) CHAPTER 35 SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

PROJECT DESCRIPTION

APN: 481-370-10

THE PROJECT INCLUDES HVAC REPLACEMENT IN EXISTING BUILDINGS: ADMINISTRATION/KINDERGARTEN-A, CLASSROOMS-B,C, MULTI-USE-D AND ASSOCIATED SITE WORK RELATED TO THE INSTALLATION OF CONDENSING UNITS/PUMPS INCLUDING PLUMBING, MECHANICAL, AND ELECTRICAL WORK. INTERIOR LIGHTING AND FIRE ALARM UPGRADES IN BUILDINGS; ADMINISTRATION/KINDERGARTEN-A, CLASSROOMS-B,C AND MULTI-USE-D.

Add Re-roofing

The new T-bar suspended ceiling system will trigger full path of travel that serves each building receiving the new works.

Add all the new path of travel improvements required for this project under the project description such as the accessible restrooms, passenger drop-off & loading areas .....

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. 01-120630
File No. 43-4

[X] The drawings or sheets listed on the cover or index sheet (all S, M, E 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 — 12/23/2022 *Date*

Architect or Engineer designated to be in general responsible charge.

Brian P. Whitmore
Print Name

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

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

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T24.12	TITLE 24 CALCULATIONS

TOTAL SHEET COUNT: 77

Please arrange a backcheck appointment with Chun Dong at chun.dong@**dgs.ca.gov**. The backcheck shall occur within 6 months of the date the checked construction documents are returned to the registered design professional in responsible charge.

• To assist in efficient review, please provide Reply by right-clicking on DSA-SS comments and briefly describing/clarifying design professional's response to comment. Appropriate reply will indicate location of response in drawings, calculations, or specifications (where applicable) and brief explanation of response.

• Any significant new details that were neither shown in V1 drawings/specs, nor prompted by a V1 comment, should be brought to the attention of the plan reviewer.

PROJECT DIRECTORY

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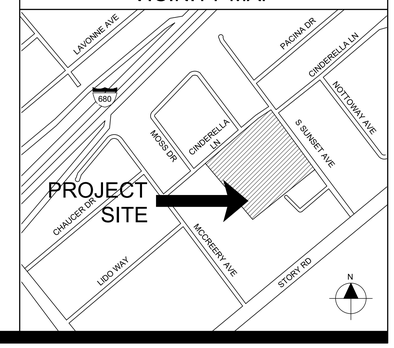
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VICINITY MAP



DSA STAMP

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRIAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 12/23/2022	

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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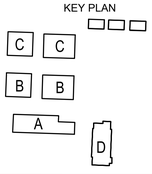
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



Please include statement

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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

COVER SHEET

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	YA0.1
Drawn / Checked	
KT / CD	

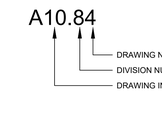
DRAWING DISCIPLINE PREFIX

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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A3. REFLECTED CEILING PLANS
A4. ROOF PLANS
A5. EXTERIOR ELEVATIONS
A6. BUILDING SECTIONS
A7. ENLARGED PLANS
A8. INTERIOR ELEVATIONS
A9. SCHEDULES
A10.. CONSTRUCTION DETAILS

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 34 TRANSPORTATION
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DIVISION 40 PROCESS INTERCONNECTIONS
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DIVISION 42 PROCESS HEATING, COOLING, AND DRYING EQUIPMENT
DIVISION 43 PROCESS GAS AND LIQUID HANDLING, PURIFICATION, AND STORAGE EQUIPMENT
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 CONTRACTOR'S 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 SPECIFICATION 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 DRAWINGS 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 MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
15. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED AIRWATER 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 1916A.8. I
   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
      2. ITW RAMSET/REDHEAD-WEDGE ANCHOR-ICC NO. ESR 2427

MINIMUM TEST VALUES			
NORMAL WEIGHT OR LIGHTWEIGHT CONCRETE			
ANCHOR	WEDGE		
DIA. (IN)	TENSION LOAD (LBS)	TORQUE (FT-LBS)	EFFECTIVE MIN. EMBEDMENT
3/8	6,500	25	1 1/2" - 2 3/4"
1/2	10,705	40	2" - 3 1/4"
5/8	17,170	60	3 1/8" - 4 3/4"
3/4	25,120	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

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LICENSED ARCHITECT BRIAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	
DATE SIGNED 12/23/2022	

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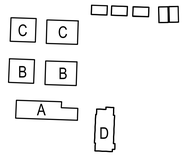
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

GENERAL NOTES
N

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	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 STANDPIPE
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
GYP	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	HOLOW 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
STIF	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
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

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ARCHITECT	ENGINEER

LICENSED ARCHITECT
BRIAN P. WHITMORE
No. C 30345
Ren. 9/30/23
STATE OF CALIFORNIA
DATE SIGNED 12/23/2022

GENERAL NOTES

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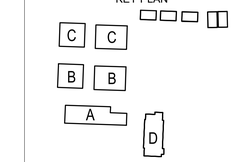
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

ARCHITECTURAL SYMBOLS AND ABBREVIATIONS

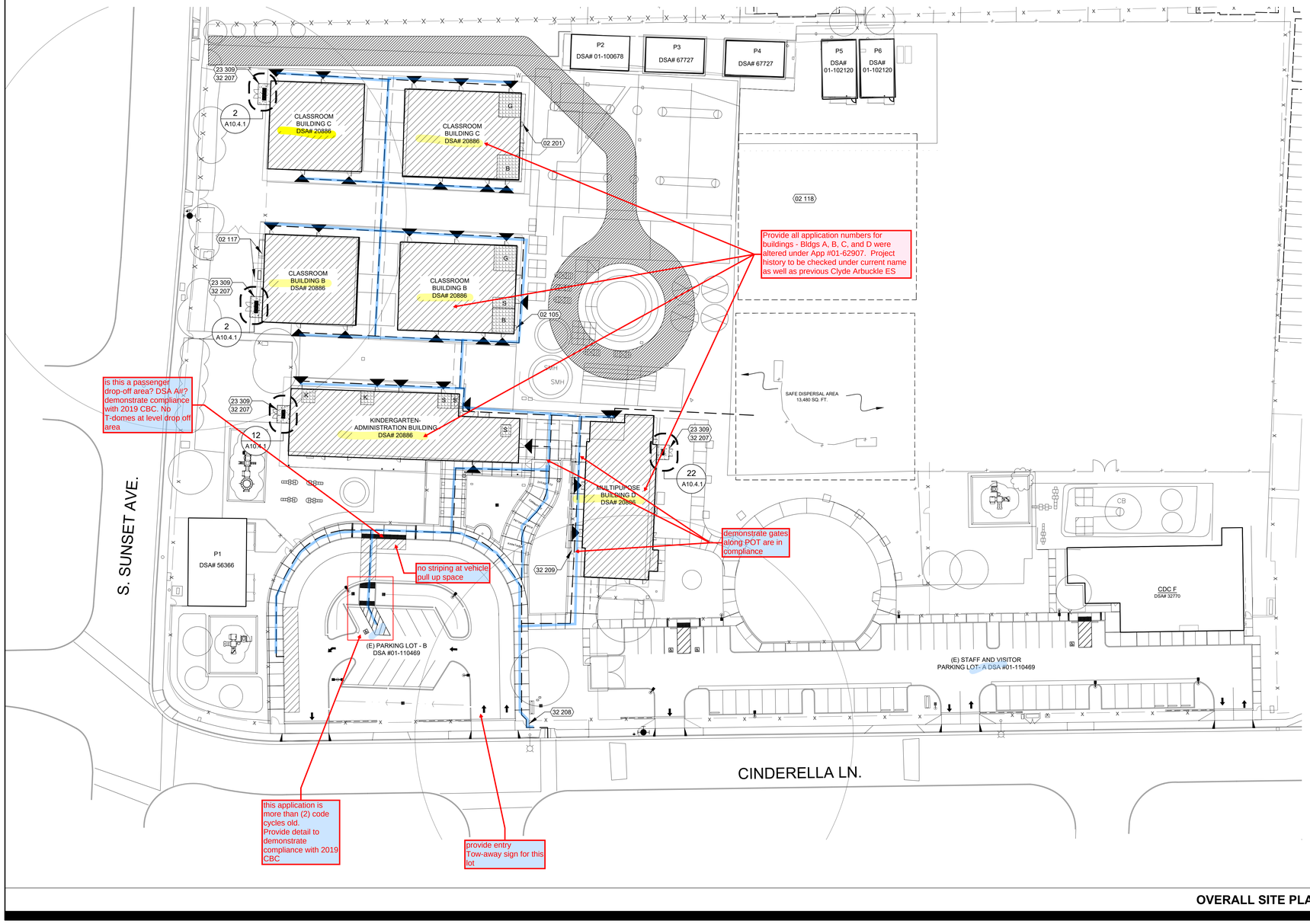
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Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A0.3
Drawn / Checked	
KT / CD	

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CODE ANALYSIS

	BUILDING 'A' KINDERGARTEN/ADMIN.	BUILDING 'B' CLASSROOM	BUILDING 'C' CLASSROOMS	BUILDING 'D' MULTI-USE	PORTABLE 'P1'	PORTABLE 'P2'	PORTABLE 'P3' & 'P4'	PORTABLES 'P5 & P6'
BUILDING NAME								
OCCUPANCY (CBC SECTION 302)	B/E	E	E	A-3	E	E	E	E
TYPE OF CONSRUCTION	V-B	V-B	V-B	V-A	V-B	V-B	V-B	V-B
SPRINKLERS	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
SEPARATED? (CBC TABLE 508.4)	YES	NO	NO	NO	NO	NO	NO	NO
TOTAL BUILDING AREA	2,453 SF (B) 3,967 SF (E)	8,675 SF	8,675 SF	5,206 SF	2,404 SF	960 SF	960 SF EACH = 1,920 SF TOTAL	960 SF EACH = 1,920 SF TOTAL
ACTUAL AREA/ ALLOWABLE AREA	2,453 SF /9,000 SF = 0.27 < 1 = OK 3,967 SF /9,500 SF = 0.42 < 1 = OK	8,671 SF / 9,500 SF = 0.91 < 1 = OK	8,650 SF / 9,500 SF = 0.91 < 1 = OK	5,206 SF / 11,500 SF = 0.45 < 1 = OK	2,404 SF / 9,500 SF = 0.25 < 1 = OK	960 SF / 9,500 SF = 0.10 < 1 = OK	1,920 SF / 9,500 SF = 0.20 < 1 = OK	1,920 SF / 9,500 SF = 0.20 < 1 = OK



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

KEY NOTES

NUMBER	NOTE
02 105	(E) ACCESSIBLE DRINKING FOUNTAIN WITH ALCOVE RAILINGS, DSA AR62907.
02 117	(E) ELECTRICAL & GAS EQUIPMENT.
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 ON SITE, COORDINATE LOCATION IN FIELD WITH OWNER.
02 201	(E) EXTERIOR DRINKING FOUNTAIN TO REMAIN.
23 309	MECHANICAL UNIT O/ CONCRETE PAD. SEE DETAIL 4/A10.4.1 AND MECHANICAL DRAWINGS.
32 207	NEW WIRE CAGES WITH TOP COVERS AROUND HVAC EQUIPMENT, SEE DETAILS 2, 12, & 22/A10.4.1.
32 208	(E) GATE MODIFIED TO HAVE OUTWARD SWING WITH (N) HARDWARE PER DETAIL 14/A10.4.1.
32 209	(E) GATE MODIFIED TO HAVE (N) PANIC HARDWARE. SEE DETAIL 14/A10.4.1 FOR HARDWARE REQUIREMENTS.

SAFE DISPERSAL AREA

- TOTAL 'EDUCATIONAL' OCCUPIED AREA = 27,418 SF
  27,418 SF @ 20 SF/OCC. = 1,371 OCCUPANTS
- TOTAL 'BUSINESS' OCCUPIED AREA = 3,495 SF
  3,495 SF @ 150 SF/OCC. = 24 OCCUPANTS
- TOTAL 'ASSEMBLY (UNCONCENTRATED)' OCCUPIED AREA = 5,206 SF
  5,206 SF @ 15 SF/OCC. 347 OCCUPANTS

TOTAL OCCUPANTS (PER CBC TABLE 1004.5) **= 1,742**

MINIMUM DISPERSAL AREA REQUIRED PER CBC 1028.5.1:
TOTAL OCCUPANTS X 5 SF/OCC. = 1,742 OCC. X 5 SF/OCC. = 8,710 SF

DISPERSAL AREA PROVIDED = 13,480 SF > 8,710 SF = OK

ACCESSIBLE PARKING

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

PARKING LOT	STANDARD STALLS	ACCESSIBLE STALLS REQUIRED	ACCESSIBLE STALLS PROVIDED
A	47	2	3*
B	10	1	1*
TOTAL	57	3	4

*INCLUDING VAN ACCESSIBLE STALL

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 PROJECT 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 A/O 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 ARE 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 SOUTH SUNSET AVENUE. 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) FIRE ACCESS LANE
- (N) CONCRETE
- (E) RESTROOMS TO REMAIN
  - **G** - (E) GIRLS RESTROOM
  - **B** - (E) BOYS RESTROOM
  - **S** - (E) STAFF RESTROOM
  - **K** - (E) KINDERGARTEN RESTROOM
- (E) FENCE & GATES
- (N) FENCE & GATES
- ACCESSIBLE PATH OF TRAVEL, SEE DEFINITION ON THIS SHEET
- LOCATION OF ACCESSIBLE EXTERIOR EXIT DOORS, ENTRANCES, AND EGRESS
- FIRE HYDRANT AND 150' RADIUS CIRCLE

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 12/23/2022	

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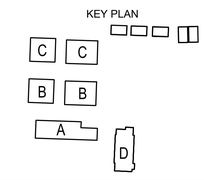
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



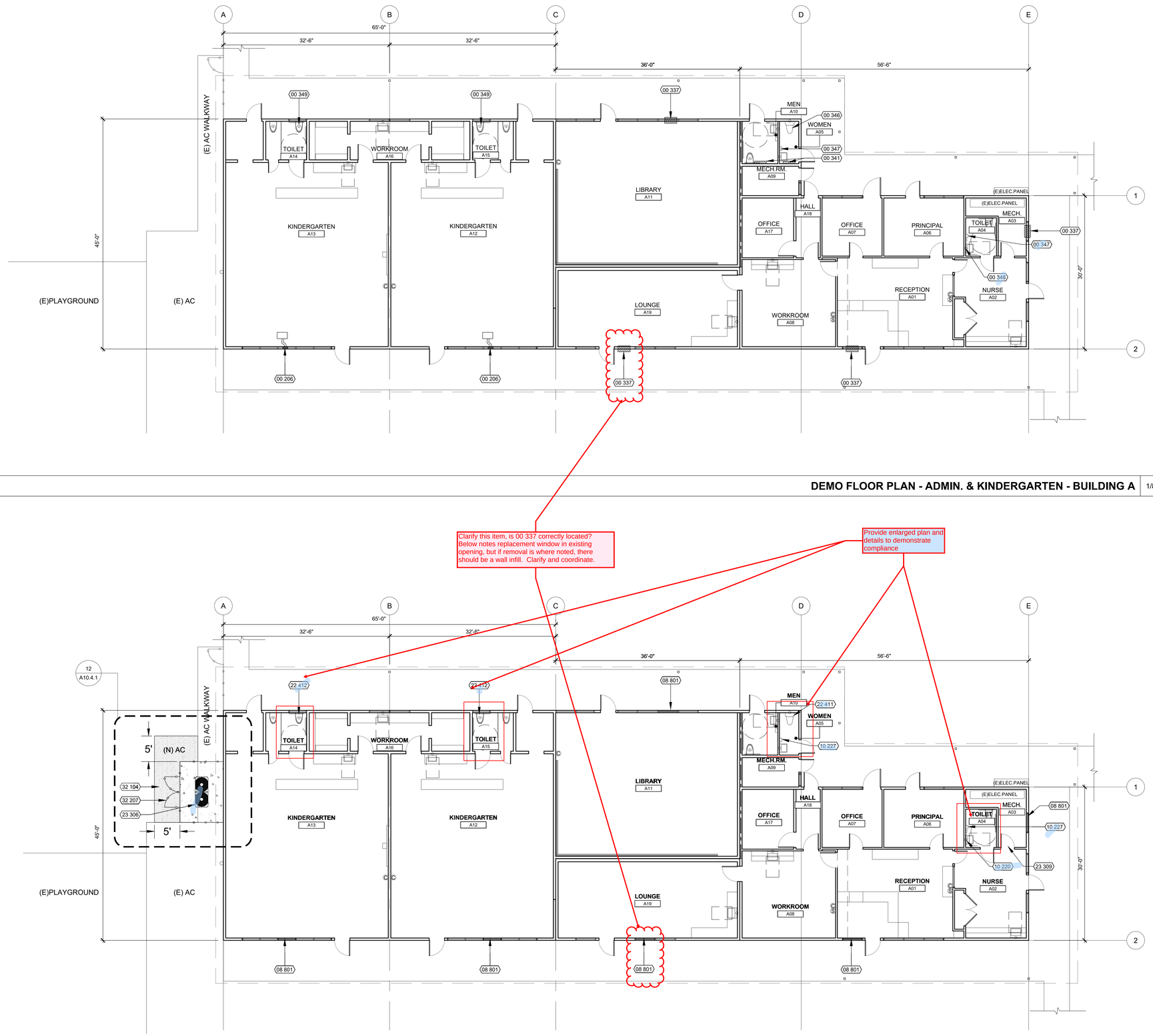
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

OVERALL SITE PLAN

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A1.1
Drawn / Checked	
KT / CD	



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

Clarify this item, is 00 337 correctly located? Below notes replacement window in existing opening, but if removal is where noted, there should be a wall infill. Clarify and coordinate.

Provide enlarged plan and details to demonstrate compliance

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

KEY NOTES

NUMBER	NOTE
00 206	REMOVE (E) PORTABLE INDOOR AC UNIT SYSTEM, WINDOW MOUNTED EXHAUST VENT AND CONDENSATE DRAIN PIPE. RETURN UNIT TO THE DISTRICT AND INFILL WINDOW FRAME WITH SHEET METAL OR GLASS TO MATCH ADJACENT. TYPICAL AT ALL CLASSROOMS AND WHERE OCCURS, VERIFY QUANTITIES AND LOCATIONS IN FIELD.
00 304	REMOVE AND REPLACE EXISTING MECHANICAL/PLUMBING EQUIPMENT & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF DEMOLITION AND NEW WORK.
00 337	REMOVE (E) 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.
00 341	REMOVE (E) WALL MOUNTED HEATER UNIT. PATCH, PAINT, AND REPAIR GYP. BOARD WHERE REQUIRED.
00 346	REMOVE (E) TOILET, SALVAGE FOR RE-INSTALLATION.
00 347	REMOVE (E) PAPER TOWEL DISPENSER, SALVAGE FOR RE-INSTALLATION.
00 348	REMOVE (E) MIRROR, SALVAGE FOR RE-INSTALLATION.
00 349	REMOVE (E) TOILET AND SALVAGE FOR RE-INSTALLATION, REMOVE TOILET SEAT AND RETURN TO DISTRICT.
08 801	NEW GLAZING WITHIN EXISTING WINDOW FRAME TO MATCH ADJACENT.
10 220	REINSTALL (E) MIRROR AT COMPLIANT HEIGHT PER 3/A10.10.1
10 227	REINSTALL (E) PAPER TOWEL DISPENSER AT COMPLIANT HEIGHT PER 3/A10.10.1.
22 411	REINSTALL (E) TOILET AT COMPLIANT LOCATION FROM WALL PER SCHEDULE ON A10.10.1
22 412	REINSTALL (E) TOILET WITH (N) TOILET SEAT AT COMPLIANT LOCATION FOR AGES 5-8 PER SCHEDULE ON A10.10.1.
23 306	NEW HEAT PUMP UNIT OVER NEW CONCRETE PAD. SEE MECHANICAL /PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK.
32 104	NEW CONCRETE SIDEWALK TO CONNECT TO (E) SIDEWALK, AROUND NEW AC UNITS AND FENCING. REMOVE AND RE-ROUTE SPRINKLER HEADS AND IRRIGATION PLUMBING. SEE DETAIL 15/A10.4.1
32 207	NEW WIRE CAGE WITH TOP COVERS AROUND HVAC EQUIPMENT.

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. PROVIDE R-30 INSULATION AT CEILING/ROOF, TYP.
5. PAINT ALL EXPOSED CONDUITS, FITTINGS, AND CONDUIT COVERS ASSOCIATED WITH THE NEW WORK TO MATCH EXISTING ADJACENT SURFACE AT BOTH EXTERIOR AND INTERIOR LOCATIONS.
6. REMOVE ALL EXISTING ITEMS TO ALLOW THE NEW WORK, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, ASPHALT PAVING, FENCING.
7. 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 .
8. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND REINSTALLATION OF CEILING MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO SPEAKERS, HVAC GRILLES, EXIT SIGNS, FIRE ALARM, CEILING MOUNTED PROJECTORS, U.O.N. VERIFY AND COORDINATE EXISTING CONDITIONS IN FIELD.
9. FOR HVAC UNIT REFRIGERANT LINES THROUGH WALL. SPACE PENETRATIONS TO CLEAR STUDS. COORDINATE LAYOUT IN FIELD. PATCH, REPAIR, AND PAINT EXTERIOR WALL, SOFFIT, AND INTERIOR CEILING AFTER INSTALLATION TO MATCH EXISTING RRADJACENT FINISHES.
10. REMOVE AND REINSTALL PROJECTORS PER DETAIL 1 & 2/A10.9.2.
11. 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.
12. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
13. 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.
14. 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
- (N) A.C. PAVING

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ARCHITECT	ENGINEER
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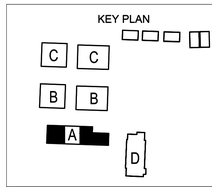
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
● DSA PLAN CHECK	12/23/2022
○ DSA BACK CHECK	
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○ CONSTRUCTION	

KEY PLAN



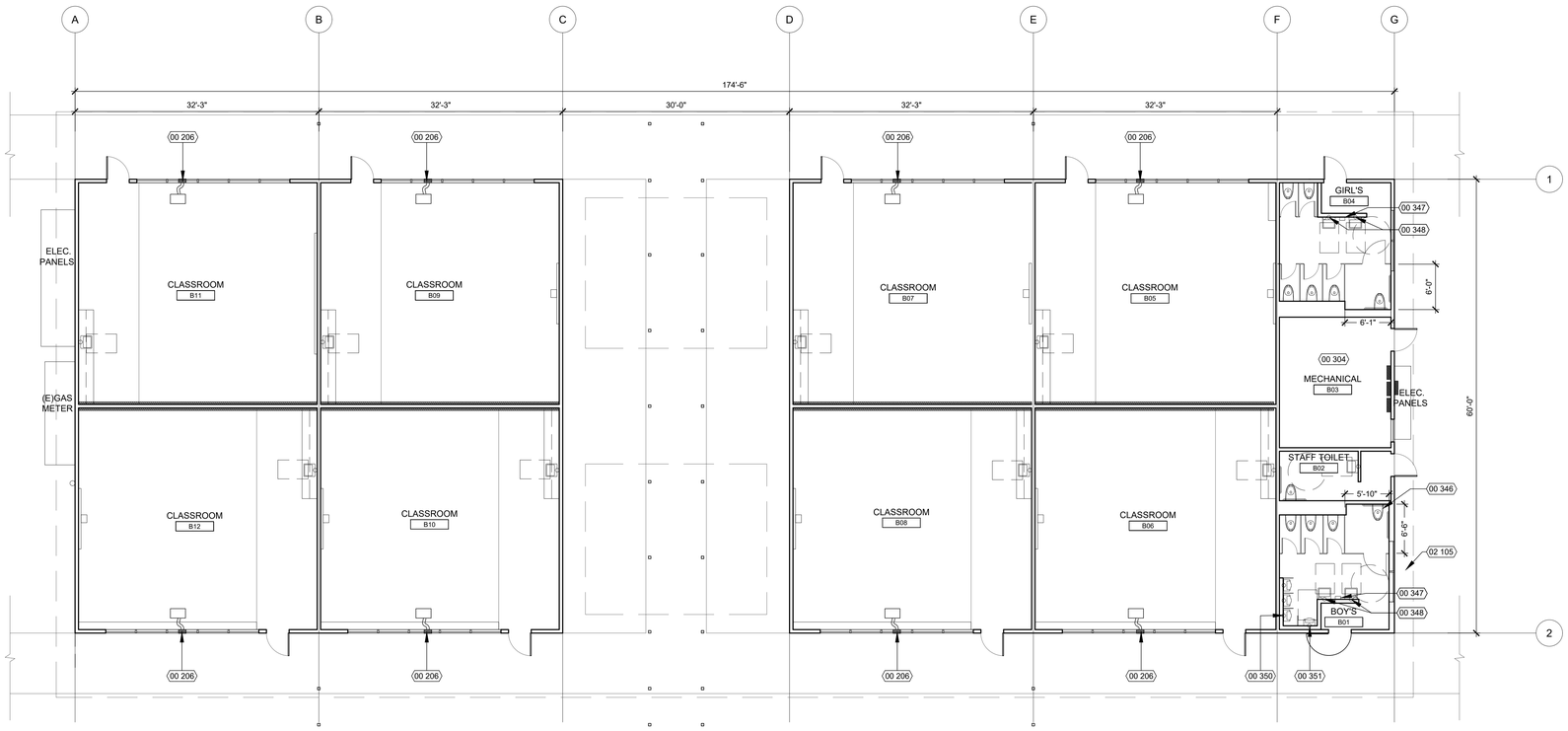
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CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
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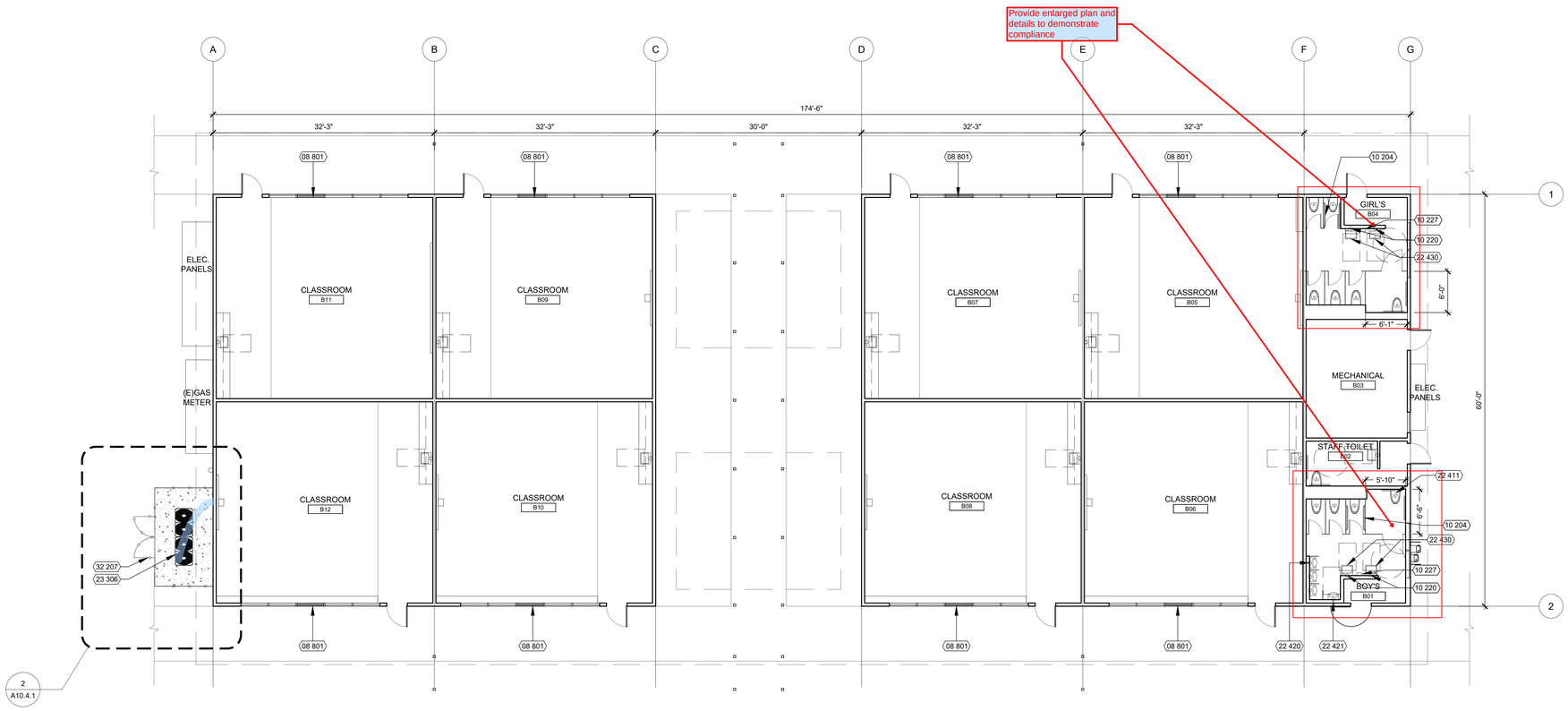
DEMO & NEW FLOOR PLAN - ADMIN. & KINDERGARTEN - BUILDING A

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A2.1
Drawn: KT	Checked: CD



DEMO FLOOR PLAN - CLASSROOM - BUILDING B

1/8" = 1'-0" 5



NEW FLOOR PLAN - CLASSROOM - BUILDING B

1/8" = 1'-0" 10

KEY NOTES

NUMBER	NOTE
00 206	REMOVE (E) PORTABLE INDOOR AC UNIT SYSTEM. WINDOW MOUNTED EXHAUST VENT AND CONDENSATE DRAIN PIPE. RETURN UNIT TO THE DISTRICT AND INFILL WINDOW FRAME WITH SHEET METAL OR GLASS TO MATCH ADJACENT. TYPICAL AT ALL CLASSROOMS AND WHERE OCCURS, VERIFY QUANTITIES AND LOCATIONS IN FIELD.
00 304	REMOVE AND REPLACE EXISTING MECHANICAL/PLUMBING EQUIPMENT & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF DEMOLITION AND NEW WORK.
00 346	REMOVE (E) TOILET. SALVAGE FOR RE-INSTALLATION.
00 347	REMOVE (E) PAPER TOWEL DISPENSER. SALVAGE FOR RE-INSTALLATION.
00 348	REMOVE (E) MIRROR. SALVAGE FOR RE-INSTALLATION.
00 350	REMOVE (E) STANDARD URINAL. SALVAGE FOR RE-INSTALLATION.
00 351	REMOVE (E) ACCESSIBLE URINAL. SALVAGE FOR RE-INSTALLATION.
02 105	(E)ACCESSIBLE DRINKING FOUNTAIN WITH ALCOVE RAILINGS. DSA A#62907.
08 801	NEW GLAZING WITHIN EXISTING WINDOW FRAME TO MATCH ADJACENT.
10 204	(N) GRAB BARS FOR AMBULATORY STALL. MOUNT PER DETAILS 11/A10.10.1
10 220	REINSTALL (E) MIRROR AT COMPLIANT HEIGHT PER 3/A10.10.1
10 227	REINSTALL (E) PAPER TOWEL DISPENSER AT COMPLIANT HEIGHT PER 3/A10.10.1.
22 411	REINSTALL (E) TOILET AT COMPLIANT LOCATION FROM WALL PER SCHEDULE ON A10.10.1.
22 420	REINSTALL (E) STANDARD URINAL AT NEW LOCATION PER PLAN AND AT COMPLIANT HEIGHT PER 3/A10.10.1 AND SCHEDULE ON A10.10.1.
22 421	REINSTALL (E) ACCESSIBLE URINAL AT NEW LOCATION PER PLAN AND AT COMPLIANT HEIGHT PER 3/A10.10.1 AND SCHEDULE ON A10.10.1.
22 430	INSULATE EXPOSED LAVATORY PIPES OR OTHERWISE PROTECT AGAINST CONTACT.
23 306	NEW HEAT PUMP UNIT OVER NEW CONCRETE PAD, SEE MECHANICAL /PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK.
32 207	NEW WIRE CAGE WITH TOP COVERS AROUND HVAC EQUIPMENT.

GENERAL NOTES

GENERAL

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5. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

LEGEND

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

DSA STAMP

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ARCHITECT	ENGINEER
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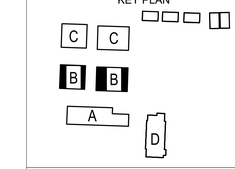
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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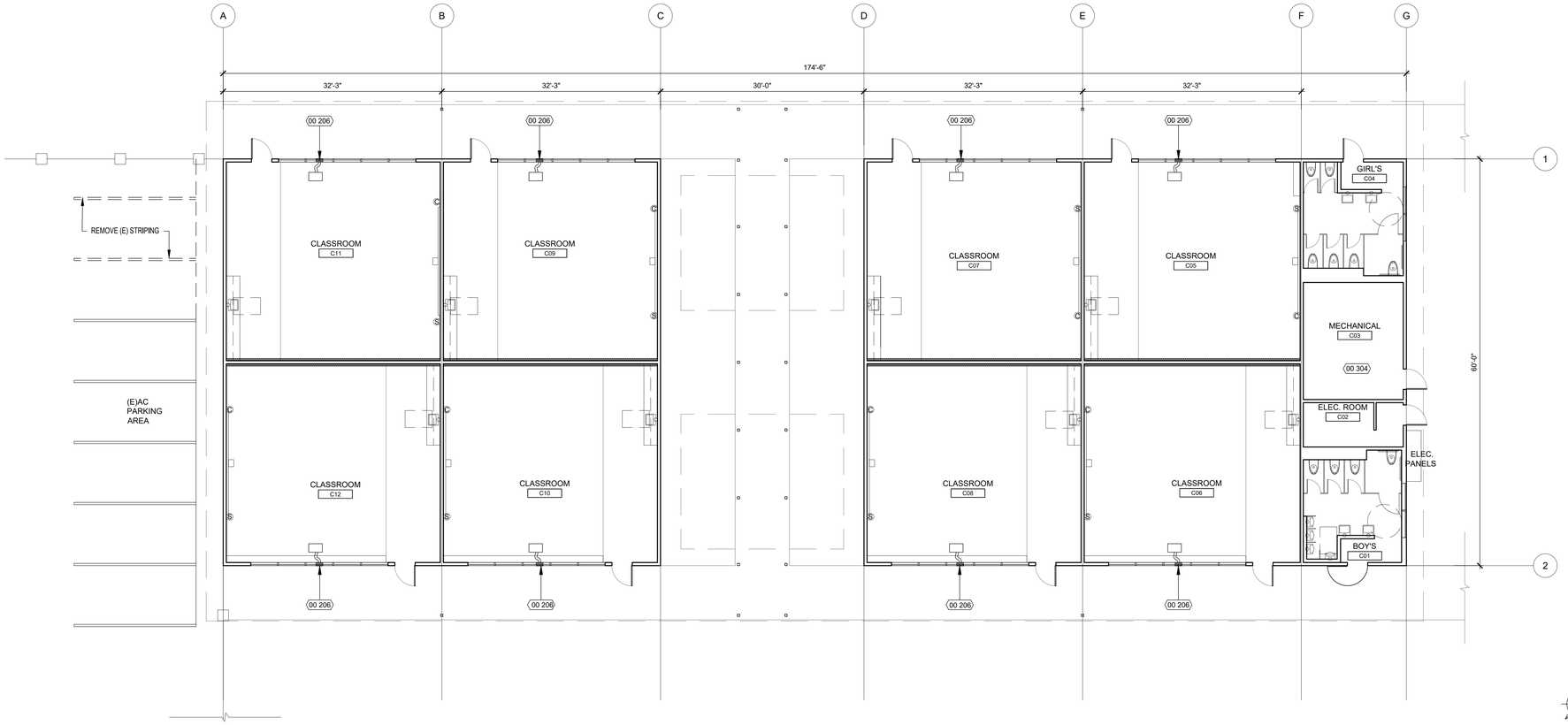
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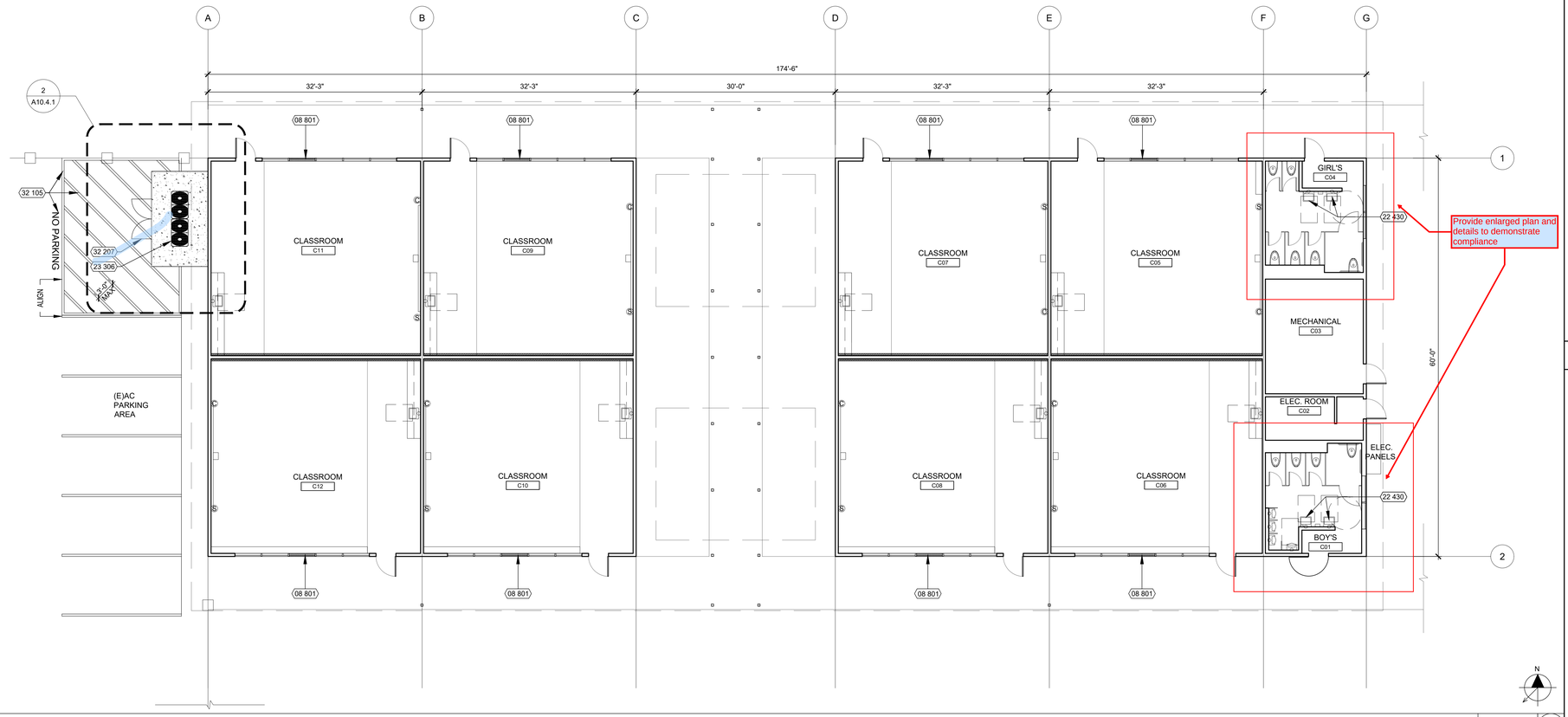
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DEMO & NEW FLOOR PLAN - CLASSROOM - BUILDING B

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	YA2.2
Drawn: KT	Checked: CD



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



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

KEY NOTES

NUMBER	NOTE
00 206	REMOVE (E) PORTABLE INDOOR AC UNIT SYSTEM, WINDOW MOUNTED EXHAUST VENT AND CONDENSATE DRAIN PIPE. RETURN UNIT TO THE DISTRICT AND INFILL WINDOW FRAME WITH SHEET SHEET METAL OR GLASS TO MATCH ADJACENT. TYPICAL AT ALL CLASSROOMS AND WHERE OCCURS. VERIFY QUANTITIES AND LOCATIONS IN FIELD.
00 304	REMOVE AND REPLACE EXISTING MECHANICAL/PLUMBING EQUIPMENT & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF DEMOLITION AND NEW WORK.
00 350	REMOVE (E) SINK AND RETURN TO DISTRICT.
08 811	NEW GLAZING WITHIN EXISTING WINDOW FRAME TO MATCH ADJACENT.
22 430	INSULATE EXPOSED LAVATORY PIPES OR OTHERWISE PROTECT AGAINST CONTACT.
23 306	NEW HEAT PUMP UNIT OVER NEW CONCRETE PAD. SEE MECHANICAL/ PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK.
32 105	PATCH NEW A.C. PAVING AROUND NEW ENCLOSURE AND RESTRIPE 4" PARKING LINES AS SHOWN.
32 207	NEW WIRE CAGE WITH TOP COVERS AROUND HVAC EQUIPMENT.

GENERAL NOTES

GENERAL

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2. ROOM NAMES AND NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION FLOOR PLANS AND NEW FLOOR PLANS.
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7. 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.
8. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND REINSTALLATION OF CEILING MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO SPEAKERS, HVAC GRILLES, EXIT SIGNS, FIRE ALARM, CEILING MOUNTED PROJECTORS, U.O.N. VERIFY AND COORDINATE EXISTING CONDITIONS IN FIELD.
9. FOR HVAC UNIT REFRIGERANT LINES THROUGH WALL. SPACE PENETRATIONS TO CLEAR STUDS. COORDINATE LAYOUT IN FIELD. PATCH, REPAIR, AND PAINT EXTERIOR WALL, SOFFIT, AND INTERIOR CEILING AFTER INSTALLATION TO MATCH EXISTING RRADJACENT FINISHES.
10. REMOVE AND REINSTALL PROJECTORS PER DETAIL 1 & 2/A10.9.2.
11. 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.
12. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
13. 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.
14. 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

(N) CONCRETE PAD

(E) STUD WALL

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

DSA STAMP

STUDIO W ARCHITECTS

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 12/23/2022	

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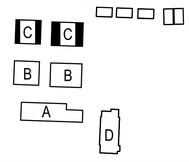
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

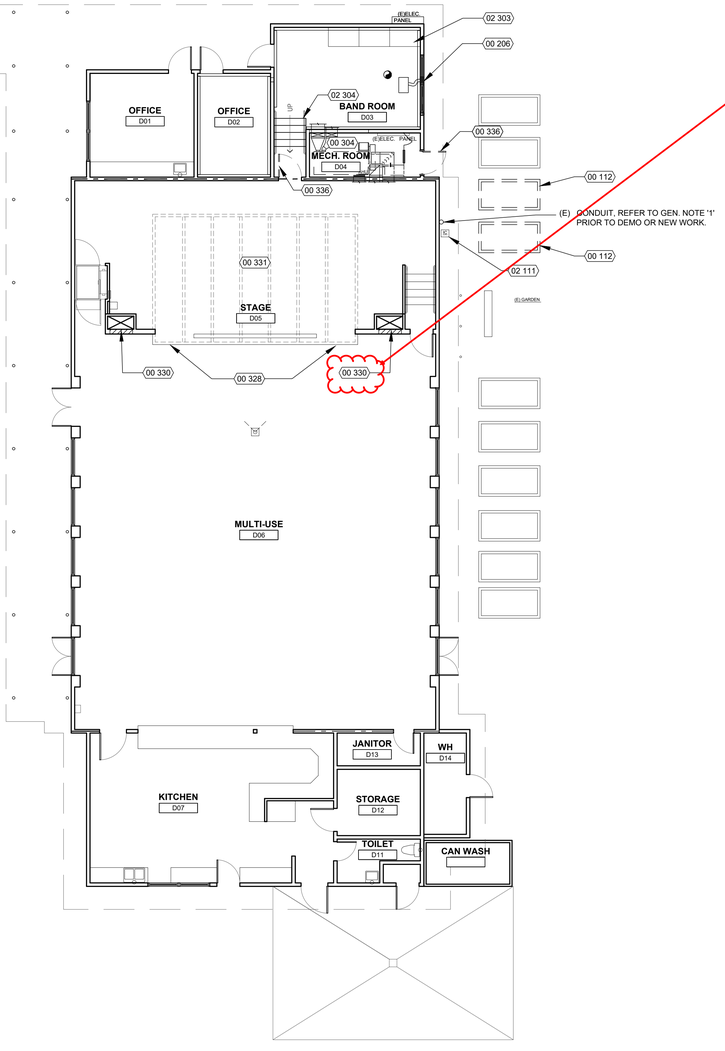
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

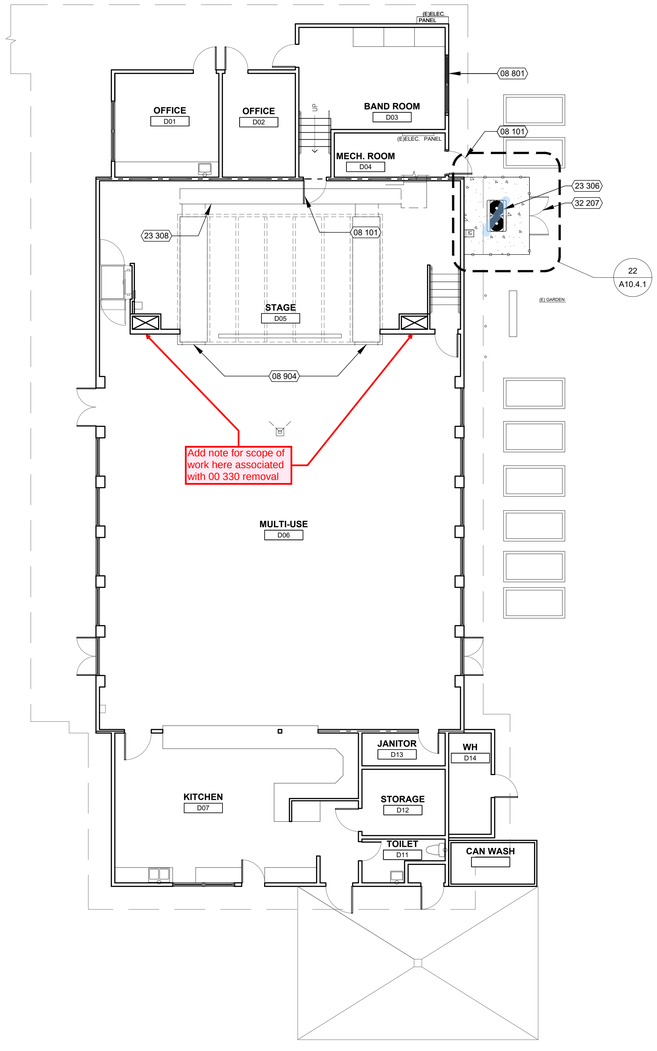
DEMO & NEW FLOOR PLAN - CLASSROOM - BUILDING C

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A2.3
Drawn: KT	Checked: CD



DEMO FLOOR PLAN - MULTI-USE - BUILDING D | 1/8" = 1'-0" | 20

Add item to legend, what is extent and scope of removal?



Add note for scope of work here associated with 00 330 removal

NEW FLOOR PLAN - MULTI-USE - BUILDING D | 1/8" = 1'-0" | 10

KEY NOTES

NUMBER	NOTE
00 112	REMOVE (E) GARDEN BEDS TO MAKE ROOM FOR NEW HVAC ENCLOSURE.
00 206	REMOVE (E) PORTABLE INDOOR AC UNIT SYSTEM, WINDOW MOUNTED EXHAUST VENT AND CONDENSATE DRAIN PIPE, RETURN UNIT TO THE DISTRICT AND INFILL WINDOW FRAME WITH SHEET SHEET METAL OR GLASS TO MATCH ADJACENT. TYPICAL AT ALL CLASSROOMS AND WHERE OCCURS. VERIFY QUANTITIES AND LOCATIONS IN FIELD.
00 331	REMOVE PARTIAL STAGE WOOD FLOORING TO ALLOW DEMOLITION OF AND NEW HVAC WORK IN CRAWLSPACE. SEE MECH. DWGS. INFILL, PATCH AND REFINISH STAGE FLOORING.
00 336	REMOVE (E) DOOR AND FRAME. PREPARE OPENING FOR NEW DOOR AND FRAME.
02 111	MAIN IRRIGATION CONTROL BOX TO REMAIN.
02 303	(E) CASEWORK TO REMAIN.
02 304	(E) STAIR AND HANDRAIL TO REMAIN. PAINT TYP.
08 101	NEW 3'-0" X 7'-0" HM DOOR, HM FRAME AND HARDWARE. SEE DOOR SCHEDULE AND DETAILS ON SHEET A10.0.
08 801	NEW GLAZING WITHIN EXISTING WINDOW FRAME TO MATCH ADJACENT.
08 904	NEW LOUVERS AT STAGE WALL, FRAME AROUND W/2X AND STAINED PLYWOOD FINISH TO MATCH COLOR OF ADJACENT STAGE DOORS. SEE MECH. DWGS. FOR LOUVER OPENING ROUGH SIZE REQUIRED.
23 306	NEW HEAT PUMP UNIT OVER NEW CONCRETE PAD, SEE MECHANICAL/ PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK.
23 308	NEW RA DUCT BELOW STAGE AREA, PROVIDE STAGE ACCESS PANEL TO CRAWL SPACE. COORDINATE LOCATION IN FIELD, SEE MECH. DWGS.
32 207	NEW WIRE CAGE WITH TOP COVERS AROUND HVAC EQUIPMENT.

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. PROVIDE R-30 INSULATION AT CEILING/ROOF, TYP.
5. PAINT ALL EXPOSED CONDUITS, FITTINGS, AND CONDUIT COVERS ASSOCIATED WITH THE NEW WORK TO MATCH EXISTING ADJACENT SURFACE AT BOTH EXTERIOR AND INTERIOR LOCATIONS.
6. REMOVE ALL EXISTING ITEMS TO ALLOW THE NEW WORK, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, ASPHALT PAVING, FENCING.
7. 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.
8. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND REINSTALLATION OF CEILING MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO SPEAKERS, HVAC GRILLES, EXIT SIGNS, FIRE ALARM, CEILING MOUNTED PROJECTORS, U.O.N. VERIFY AND COORDINATE EXISTING CONDITIONS IN FIELD.
9. FOR HVAC UNIT REFRIGERANT LINES THROUGH WALL. SPACE PENETRATIONS TO CLEAR STUDS. COORDINATE LAYOUT IN FIELD. PATCH, REPAIR, AND PAINT EXTERIOR WALL, SOFFIT, AND INTERIOR CEILING AFTER INSTALLATION TO MATCH EXISTING RRADJACENT FINISHES.
10. REMOVE AND REINSTALL PROJECTORS PER DETAIL 1 & 2/A10.9.2.
11. 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.
12. COORDINATE LOCATION OF NEW THERMOSTATS IN FIELD, AVOID SWING OF DOORS, CASEWORK, AND WALL MOUNTED EQUIPMENT. SEE MECH. DWGS.
13. 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.
14. 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.
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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

- (N) CONCRETE PAD
- (E) STUD WALL
- (E) 1-HR RATED STUD WALL
- (E) WIREMOLD BELOW CEILING
- LINE OF ROOF, SKYLIGHT, OR SOFFIT OVERHEAD - SHOWN DASHED

DSA STAMP

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRIAN P WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 12/23/2022	

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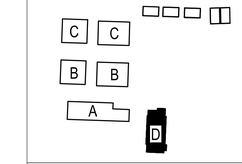
REVISION HISTORY

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

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

DEMO & NEW FLOOR PLAN - MULTI-USE - BUILDING D

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A2.4
Drawn: KT	Checked: CD



DEMO REFLECTED CEILING PLAN - ADMIN. & KINDERGARTEN - BUILDING A

1/8" = 1'-0" | 5

NEW REFLECTED CEILING PLAN - ADMIN. & KINDERGARTEN - BUILDING A

1/8" = 1'-0" | 10

KEY NOTES

NUMBER	NOTE
00 301	REMOVE AND REPLACE EXISTING ACOUSTICAL LAY-IN T-BAR SUSPENDED CEILING SYSTEM.
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.
00 305	REMOVE CEILING SYSTEM AND INSULATION PREPARE FOR NEW.
00 306	REMOVE (E) GLUE-ON ACOUSTICAL TILE CEILING SYSTEM, TO BARE RAFTER, PREPARE FOR NEW CEILING SYSTEM.
00 337	REMOVE (E) 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.
00 338	REMOVE (E) SOFFIT WHICH MAY INCLUDE GYP. BOARD, FRAMING & DUCT WORK WITHIN. PATCH AND REPAIR WALL GYP. BOARD TO PREPARE FOR NEW CEILING. REFER TO MECHANICAL DWGS. FOR THE EXTENT OF DEMOLITION WORK FOR DUCTS AND REGISTERS REMOVAL.
00 339	REMOVE (E) GRILLS OR REGISTERS. PATCH AND REPAIR WALL/GYP. BOARD TO MATCH ADJACENT.
00 340	REMOVE (E) EXHAUST FANS AND ALL HVAC CONNECTIONS. REFER TO MECHANICAL DRAWINGS FOR LOCATION AND EXTENT OF NEW EXHAUST FANS.
00 342	REMOVE (E) GYP. BOARD, FURRING, SUBSTRATE CEILING SYSTEM, TO BARE RAFTERS, PREPARE FOR NEW CLIENT SYSTEM.
02 301	(E) CEILING TO REMAIN, PATCH AND REPAIR AND PAINT.
09 201	PATCH AND PAINT EXISTING GYP. BD. CEILING.
09 502	NEW IN-LAY ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A10.9.1 & A10.9.2 FOR DETAILS.
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.
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 ELECTRICAL DRAWINGS FOR TYPE AND EXTENT OF WORK.

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 2/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) LIGHT FIXTURE TO BE REMOVED
- NEW 2x4 IN-LAY ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A9.2 & A9.3 FOR DETAILS.
- NEW 2x2 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

STUDIO W ARCHITECTS

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 12/23/2022	

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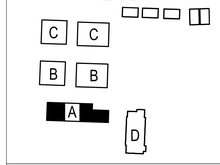
REVISION HISTORY

NO.	REMARKS	DATE

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

KEY PLAN



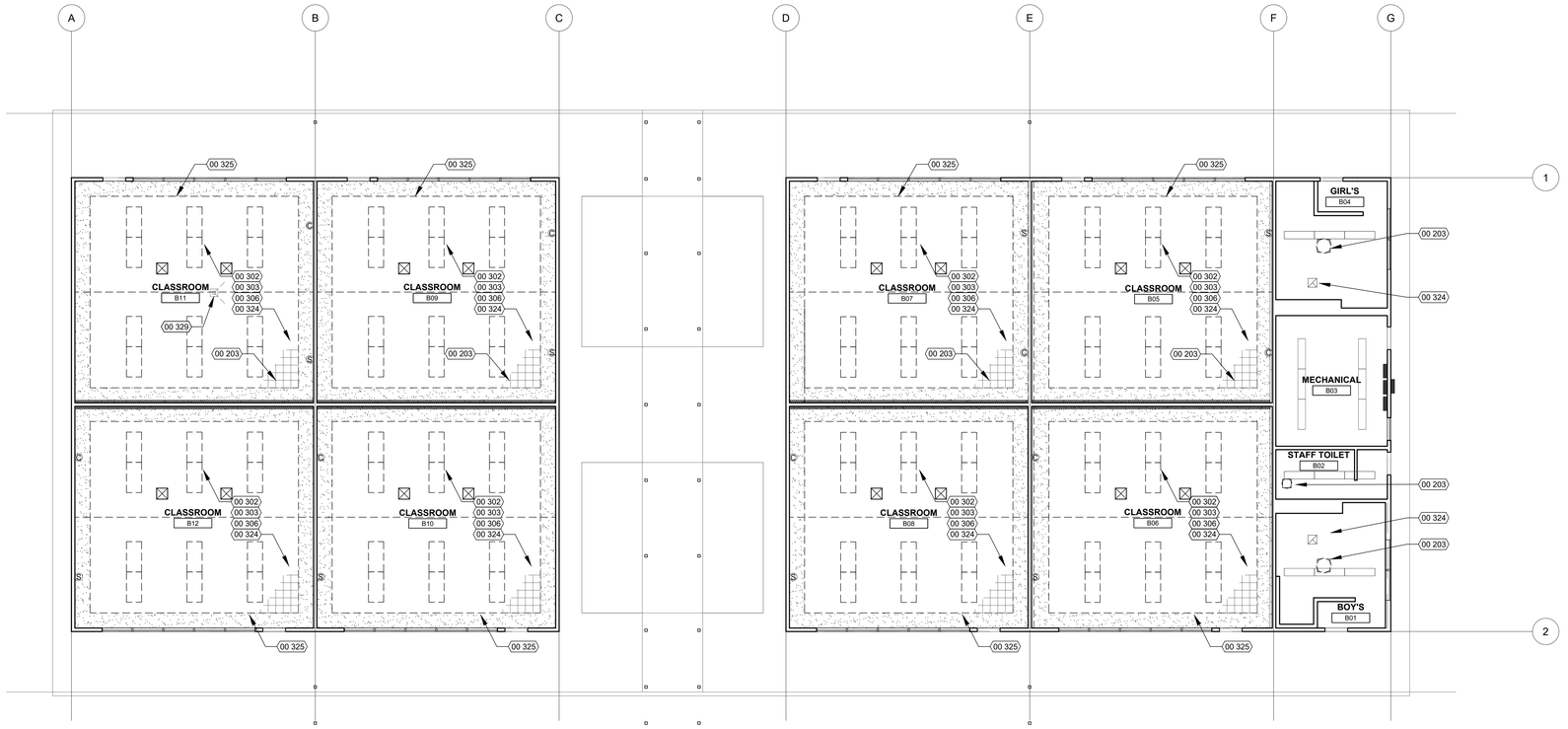
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2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

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

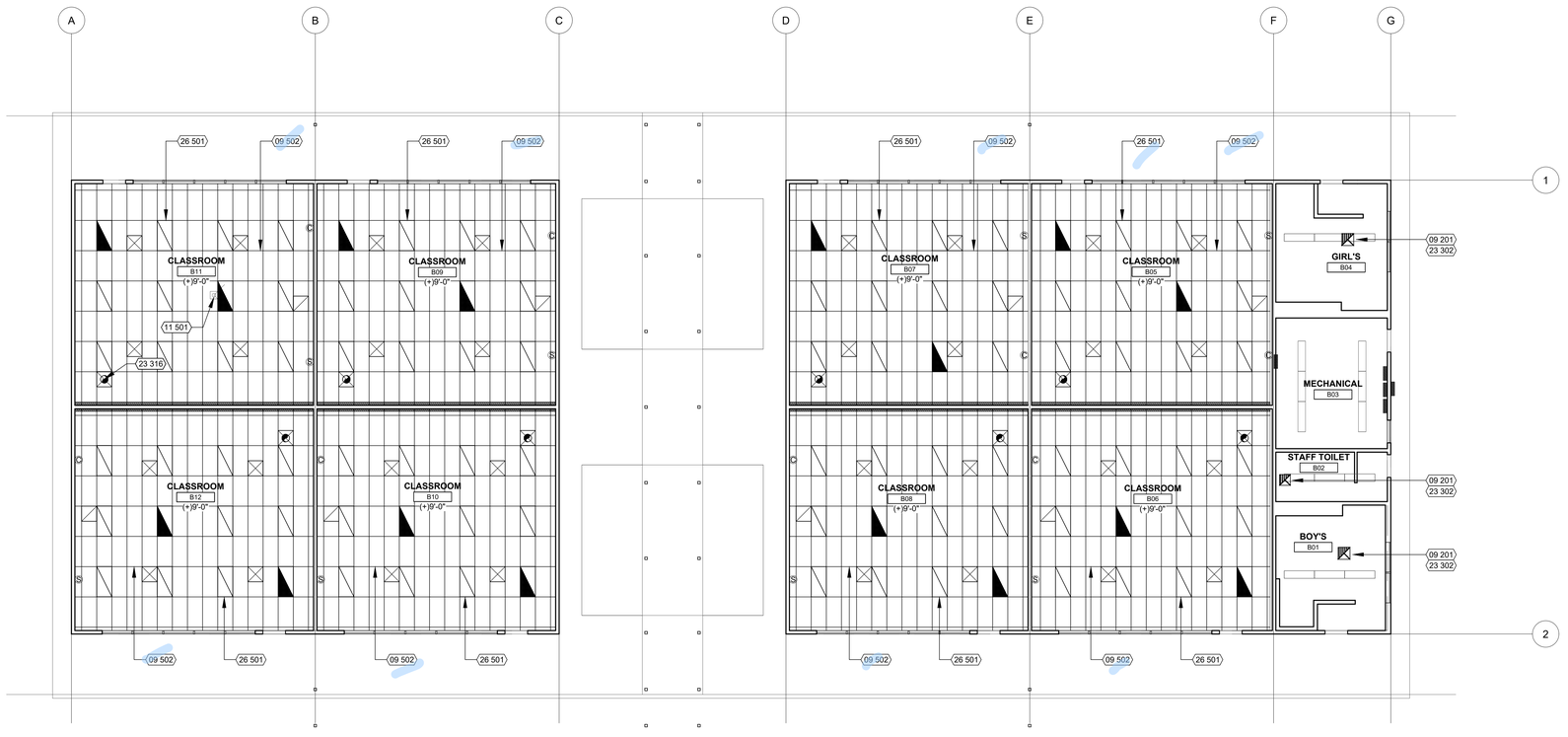
Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A3.1
Drawn / Checked	
KT / CD	



N

DEMO REFLECTED CEILING PLAN - CLASSROOM - BUILDING B

1/8" = 1'-0" 5



N

NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING B

1/8" = 1'-0" 10

KEY NOTES

NUMBER	NOTE
00 203	DEMOLISH (E) ROOF SYSTEM TO ALLOW FOR NEW ROOFING AND HVAC EQUIPMENT PENETRATION. COORDINATE WITH MECHANICAL DRAWINGS FOR DEMOLITION AND NEW EQUIPMENT LOCATIONS.
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.
00 306	REMOVE (E) GLUE-ON ACOUSTICAL TILE CEILING SYSTEM, TO BARE RAFTER. PREPARE FOR NEW CEILING SYSTEM.
00 324	REMOVE (E) EXHAUST FANS AND ALL HVAC CONNECTIONS. PATCH, REPAIR & INFILL AS NEEDED TO MATCH ADJACENT. REFER TO MECHANICAL DRAWING FOR LOCATIONS AND EXTENT OF WORK OF DEMOLITION & NEW EXHAUST FANS. PATCH, REPAIR & INFILL AS NEEDED TO MATCH ADJACENT.
00 325	REMOVE (E) GYP. BOARD CEILING BOARDER.
00 329	REMOVE (E) PROJECTOR AND SALVAGE FOR RE-INSTALLATION.
09 201	PATCH AND PAINT EXISTING GYP. BD. CEILING.
09 502	NEW IN-LAY ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A10.9.1 & A10.9.2 FOR DETAILS.
11 501	RE-INSTALLATION (E) PROJECTOR IN (N) CEILING, SEE DETAIL 18/A10.9.2.
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.
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 ELECTRICAL DRAWINGS FOR TYPE AND EXTENT OF WORK.

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 18/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) LIGHT FIXTURE TO BE REMOVED
- NEW 2x4 IN-LAY ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A9.2 & A9.3 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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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 12/23/2022	

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REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



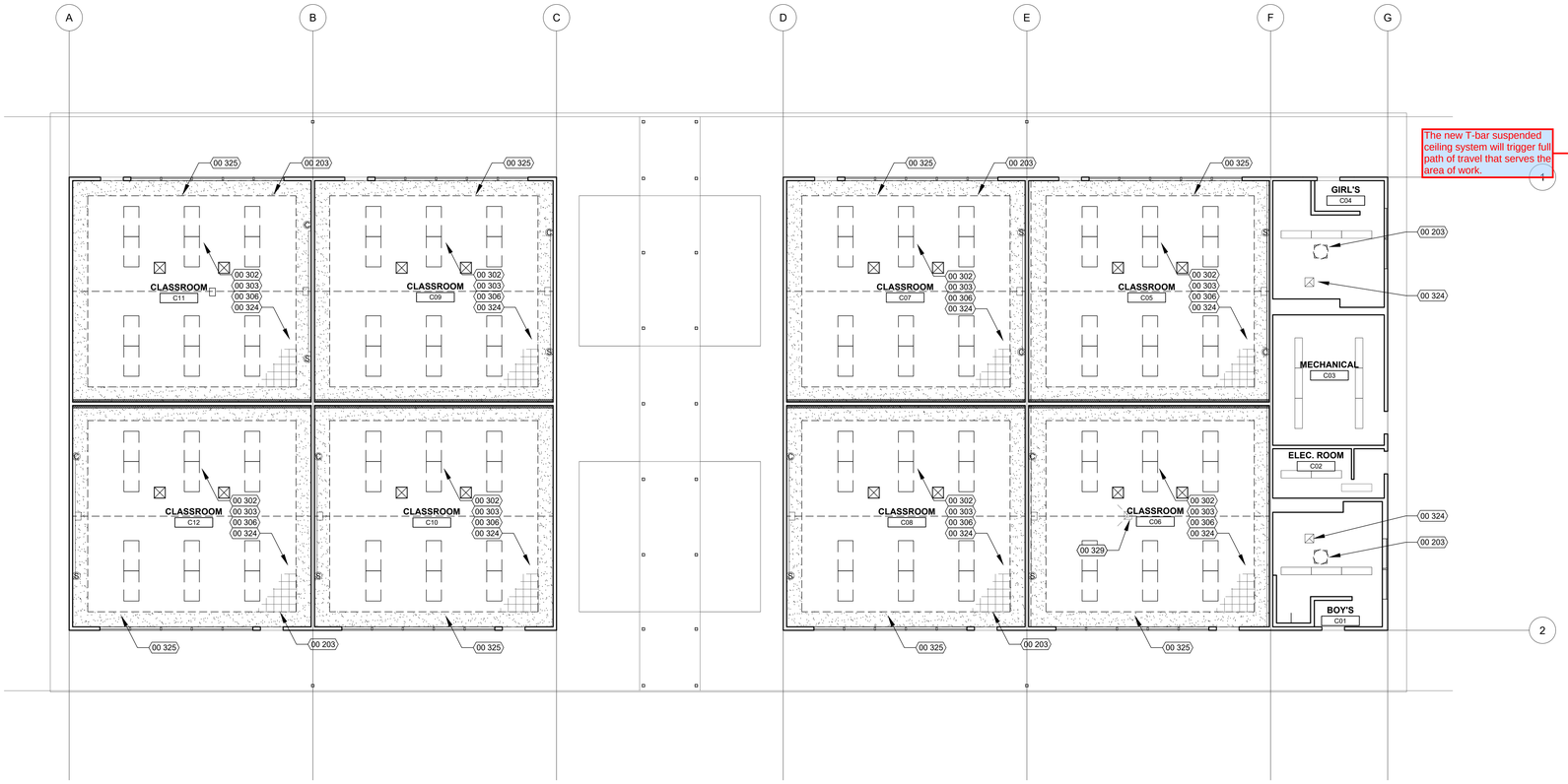
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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SAN JOSE, CA 95116

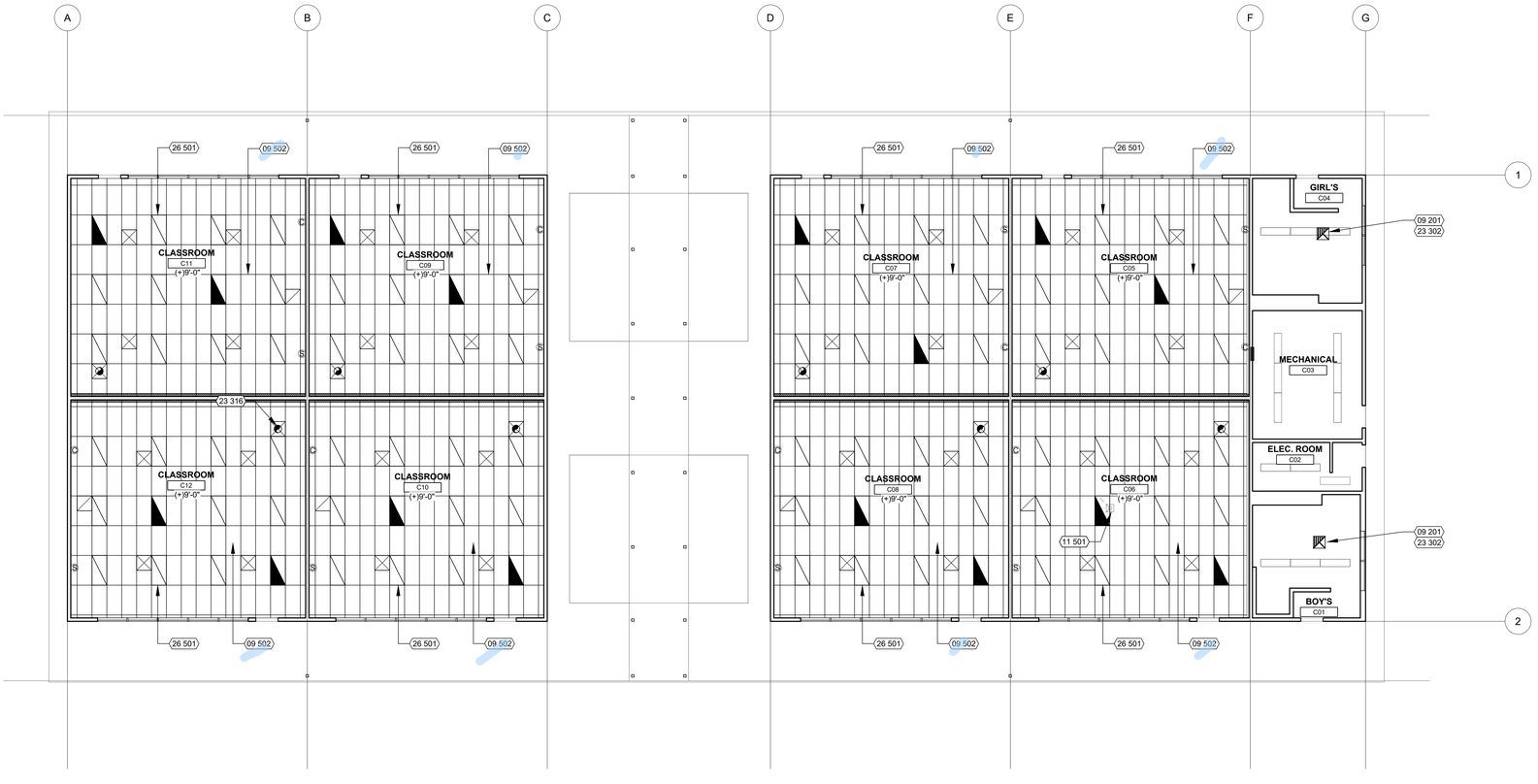
DEMO & NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING B

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A3.2
Drawn / Checked	
KT / CD	



DEMO REFLECTED CEILING PLAN - CLASSROOM - BUILDING C

1/8" = 1'-0" | 5



NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING C

1/8" = 1'-0" | 10

KEY NOTES

NUMBER	NOTE
00 203	DEMOLISH (E) ROOF SYSTEM TO ALLOW FOR NEW ROOFING AND HVAC EQUIPMENT PENETRATION. COORDINATE WITH MECHANICAL DRAWINGS FOR DEMOLITION AND NEW EQUIPMENT LOCATIONS.
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.
00 306	REMOVE (E) GLUE-ON ACOUSTICAL TILE CEILING SYSTEM, TO BARE RAFTER. PREPARE FOR NEW CEILING SYSTEM.
00 324	REMOVE (E) EXHAUST FANS AND ALL HVAC CONNECTIONS. PATCH, REPAIR & INFILL AS NEEDED TO MATCH ADJACENT. REFER TO MECHANICAL DRAWING FOR LOCATIONS AND EXTENT OF WORK OF DEMOLITION & NEW EXHAUST FANS. PATCH, REPAIR & INFILL AS NEEDED TO MATCH ADJACENT.
00 325	REMOVE (E) GYP. BOARD CEILING BOARDER.
00 329	REMOVE (E) PROJECTOR AND SALVAGE FOR RE-INSTALLATION.
09 201	PATCH AND PAINT EXISTING GYP. BD. CEILING.
09 502	NEW IN-LAY ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A10.9.1 & A10.9.2 FOR DETAILS.
11 501	RE-INSTALLATION (E) PROJECTOR IN (N) CEILING, SEE DETAIL 18/A10.9.2.
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.
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 ELECTRICAL DRAWINGS FOR TYPE AND EXTENT OF WORK.

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
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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.
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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
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LEGEND

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- NEW 2x4 IN-LAY ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A9.2 & A9.3 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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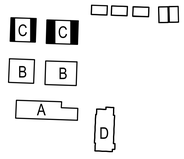
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



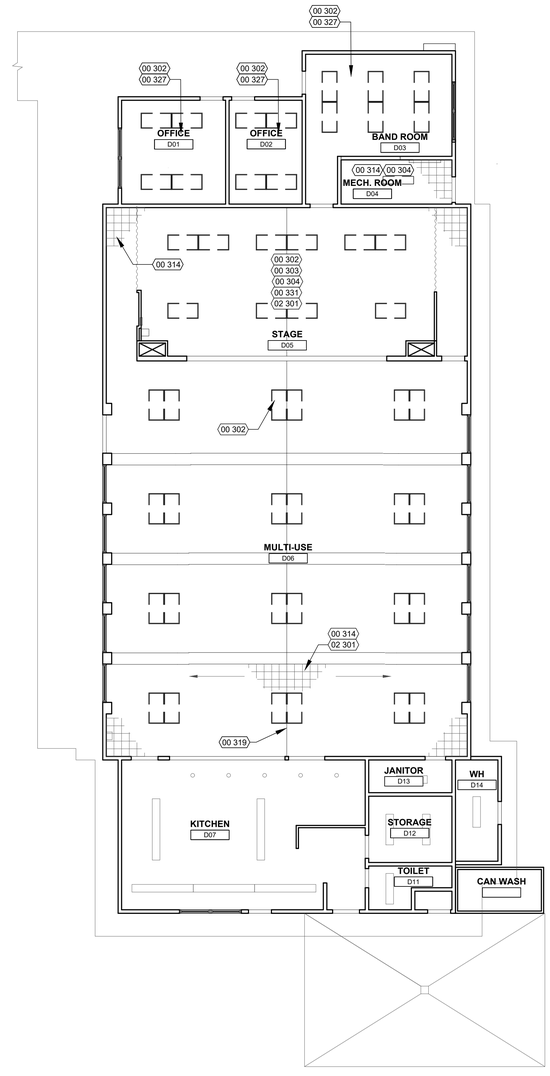
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CONSTRUCTION DOCUMENTS

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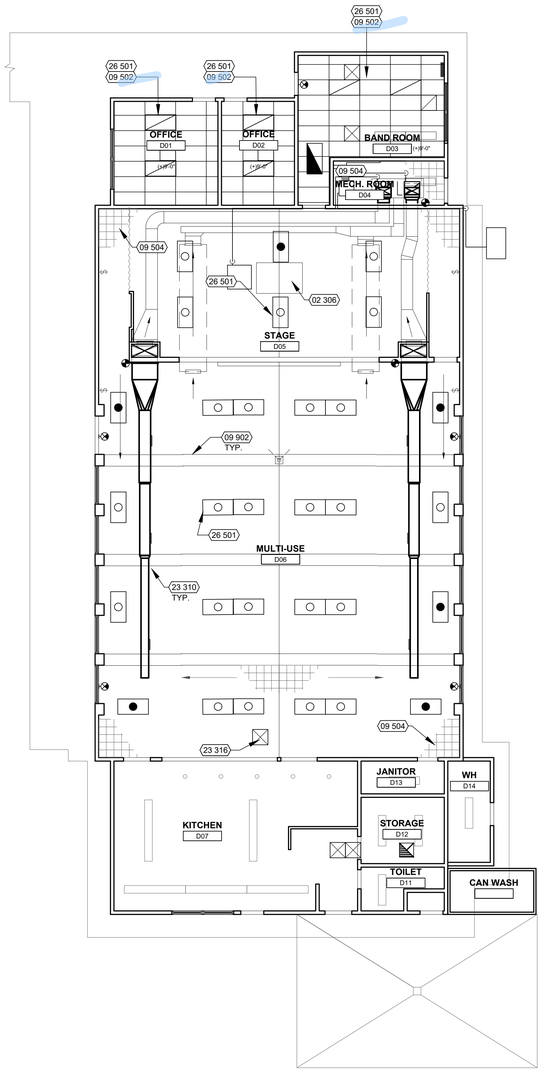
DEMO & NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING C

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A3.3
Drawn / Checked	
KT / CD	



N

DEMO REFLECTED CEILING PLAN - MULTI-USE - BUILDING D 1/8" = 1'-0" 20



N

NEW REFLECTED CEILING PLAN - MULTI-USE - 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 QUANITIES 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 EXISTING MECHANICAL/PLUMBING EQUIPMENT & PIPING, REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXTENT OF DEMOLITION AND NEW WORK.
00 314	REMOVE AND REPLACE (E) DAMAGED GLUE-ON ACOUSTICAL TILE CEILING SYSTEM, VERIFY IN FIELD.
00 319	REMOVE (E) PARTIAL CEILING/ROOF TO ALLOW FOR NEW ROOF EXHAUST FAN. COORDINATE REQUIRED OPENING WITH FAN MANUFACTURER, SEE MECH. DWGS AND DETAIL 7/A10.7.1.
00 327	REMOVE (E) GLUE-ON ACOUSTICAL CEILING SYSTEM TO ALLOW THE NEW WORK. PREPARE FOR NEW CEILING. RE-ROUTE (E) WIREMOLD V.I.F.
00 328	REMOVE AND REPLACE RETURN AIR GRILLES AT FACE OF STAGE WALL. PREPARE ADEQUATE ROUGH OPENING FOR NEW GRILLES, SEE MECH. DWGS.
00 330	REMOVE (E)WALL GRILLES AND PARTIAL WALL. PREPARE FOR NEW SUPPLY DUCT ROUTE, SEE MECH. DWG.
00 331	REMOVE PARTIAL STAGE WOOD FLOORING TO ALLOW DEMOLITION AND NEW HVAC WORK IN CRAWL/CHAIR STORAGE SPACE, SEE MECH. DWGS. INFILLL, PATCH AND REFINISH STAGE FLOORING.
02 301	(E) CEILING TO REMAIN, PATCH AND REPAIR AND PAINT.
02 306	(E) SMOKE HATCH TO REMAIN, COORDINATE INSTALLATION OF NEW LIGHTS AND EXPOSED DUCT.
09 502	NEW IN-LAY ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A10.9.1 & A10.9.2 FOR DETAILS.
09 504	PATCH AND PAINT EXISTING GLUE-ON ACOUSTICAL CEILING TILE.
09 902	PAINT (E) BEAMS, TYP.
23 310	NEW EXPOSED DUCT TO RUN BELOW (E) BEAMS. PAINT TYP.
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 ELECTRICAL DRAWINGS FOR TYPE AND EXTENT OF WORK.

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 2/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.
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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.

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LEGEND

- (E) LIGHT FIXTURE TO BE REMOVED
- NEW 2x4 IN-LAY ACOUSTICAL PANEL, T-BAR GRID SUSPENDED CEILING SYSTEM, TYP. SEE SHEET A9.2 & A9.3 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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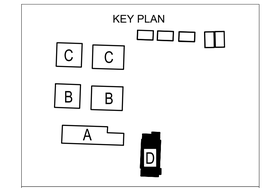
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NO.	REMARKS	DATE

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○ CONSTRUCTION	

KEY PLAN



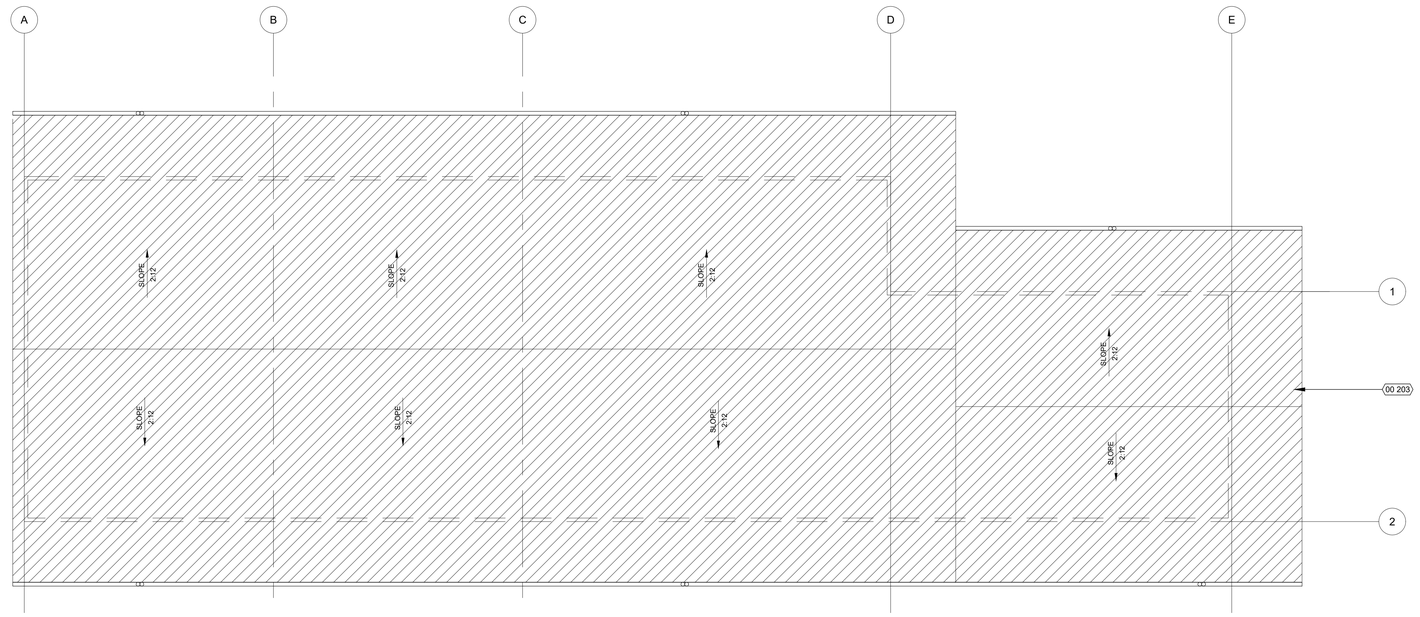
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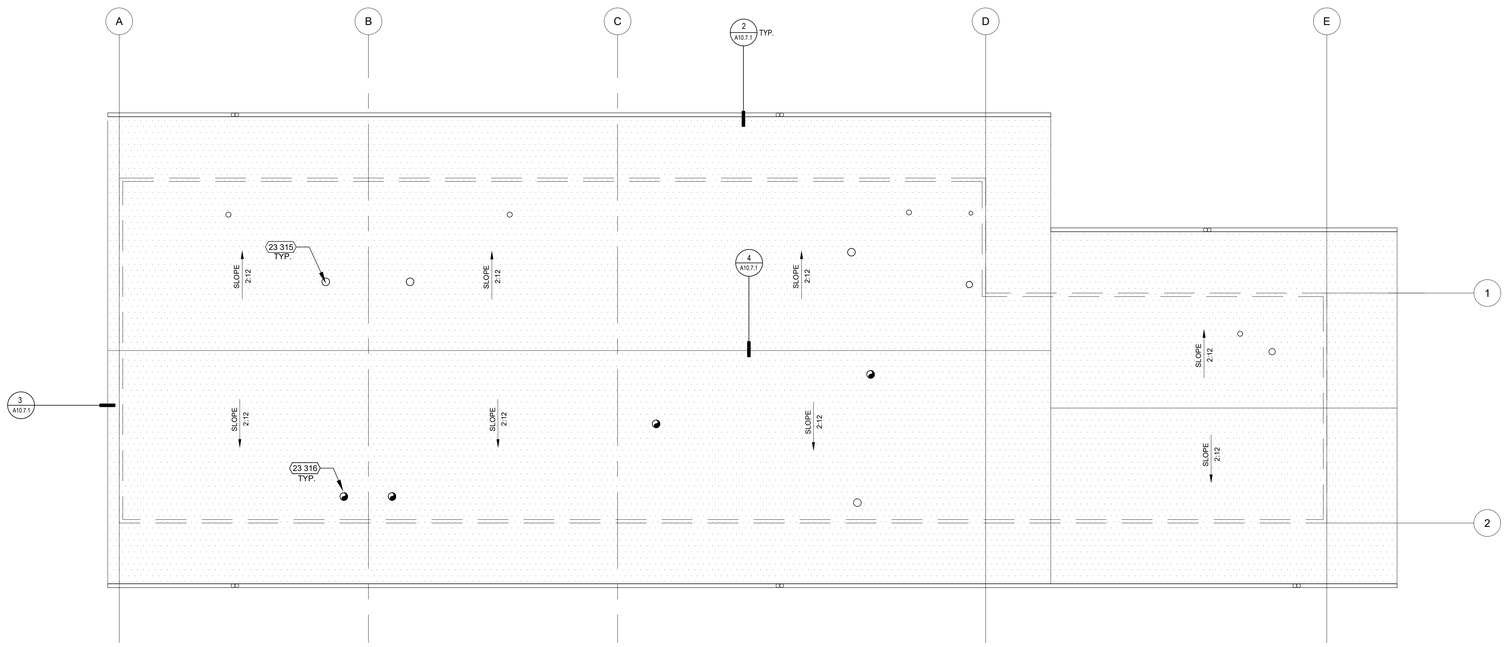
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SAN JOSE, CA 95116

DEMO & NEW REFLECTED CEILING PLAN - MULTI-USE - BUILDING D

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A3.4
Drawn: KT	Checked: CD



DEMO ROOF PLAN - ADMIN. & KINDERGARTEN - BUILDING A | 1/8" = 1'-0" | 5



NEW ROOF PLAN - ADMIN. & KINDERGARTEN - BUILDING A | 1/8" = 1'-0" | 10

KEY NOTES

NUMBER	NOTE
00 203	DEMOLISH (E) ROOF SYSTEM TO ALLOW FOR NEW ROOFING AND HVAC EQUIPMENT PENETRATION. COORDINATE WITH MECHANICAL DRAWINGS FOR DEMOLITION AND NEW EQUIPMENT LOCATIONS.
23 315	NEW ROOF PENETRATION FOR MECHANICAL SYSTEM, SEE DETAIL 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". 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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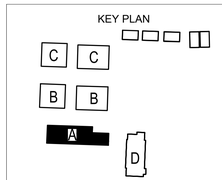
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

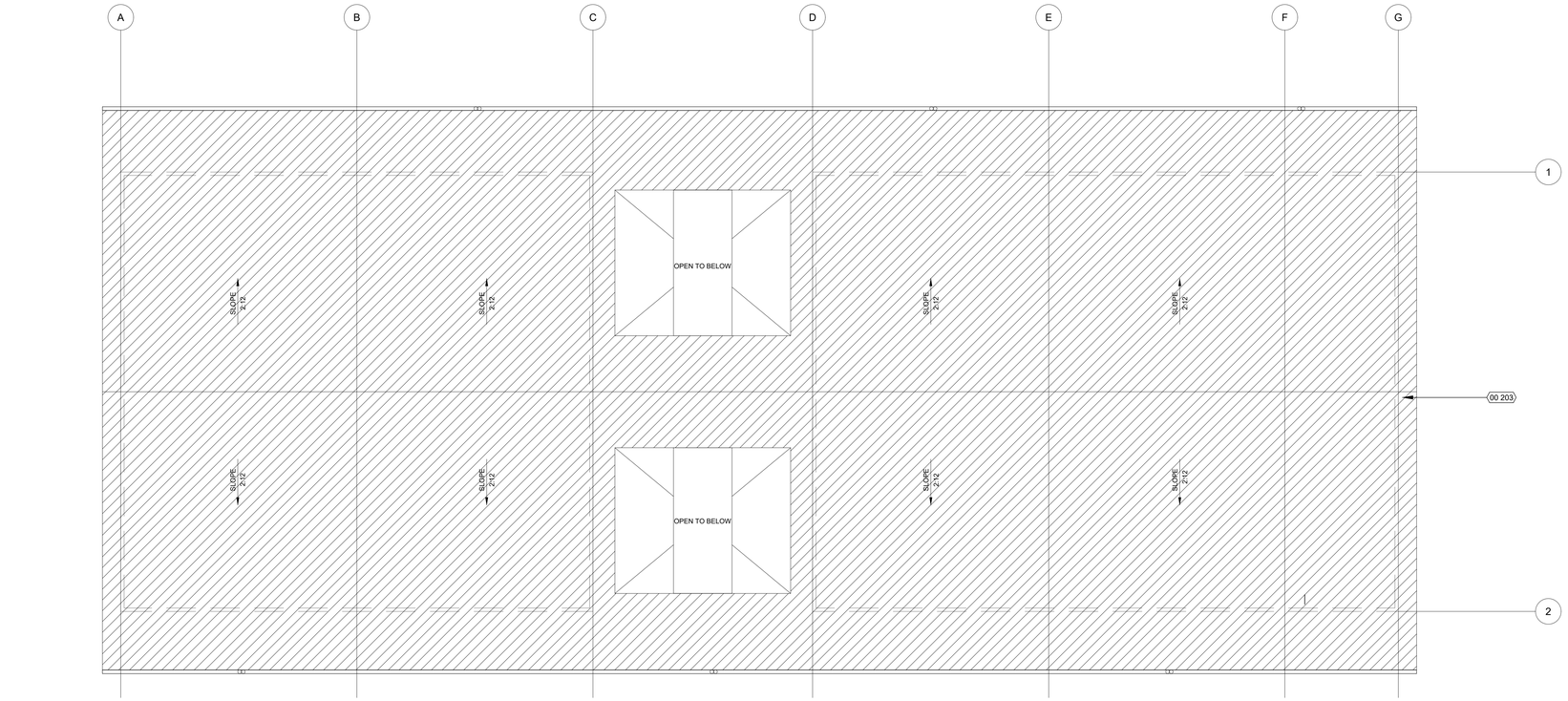
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

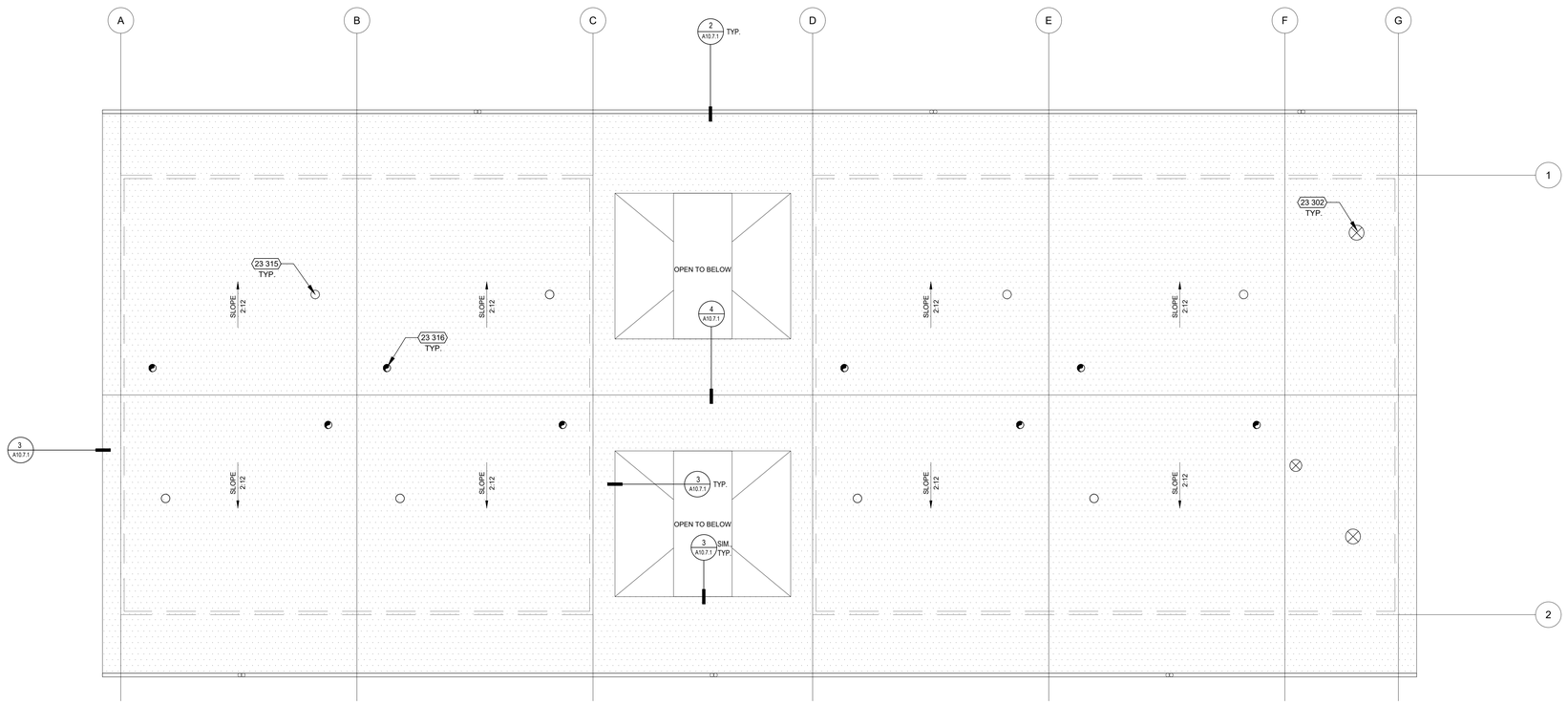
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

DEMO & NEW ROOF PLAN - ADMIN. & KINDERGARTEN - BUILDING A

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A4.1
Drawn KT	Checked CD



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



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

KEY NOTES

NUMBER	NOTE
00 203	DEMOLISH (E) ROOF SYSTEM TO ALLOW FOR NEW ROOFING 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 DETAIL 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

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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". 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

DSA STAMP

STUDIO W ARCHITECTS

Studio W Architects
1930 H St.
Sacramento, California 95811
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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRIAN P WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 12/23/2022	

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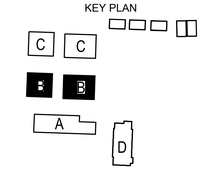
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



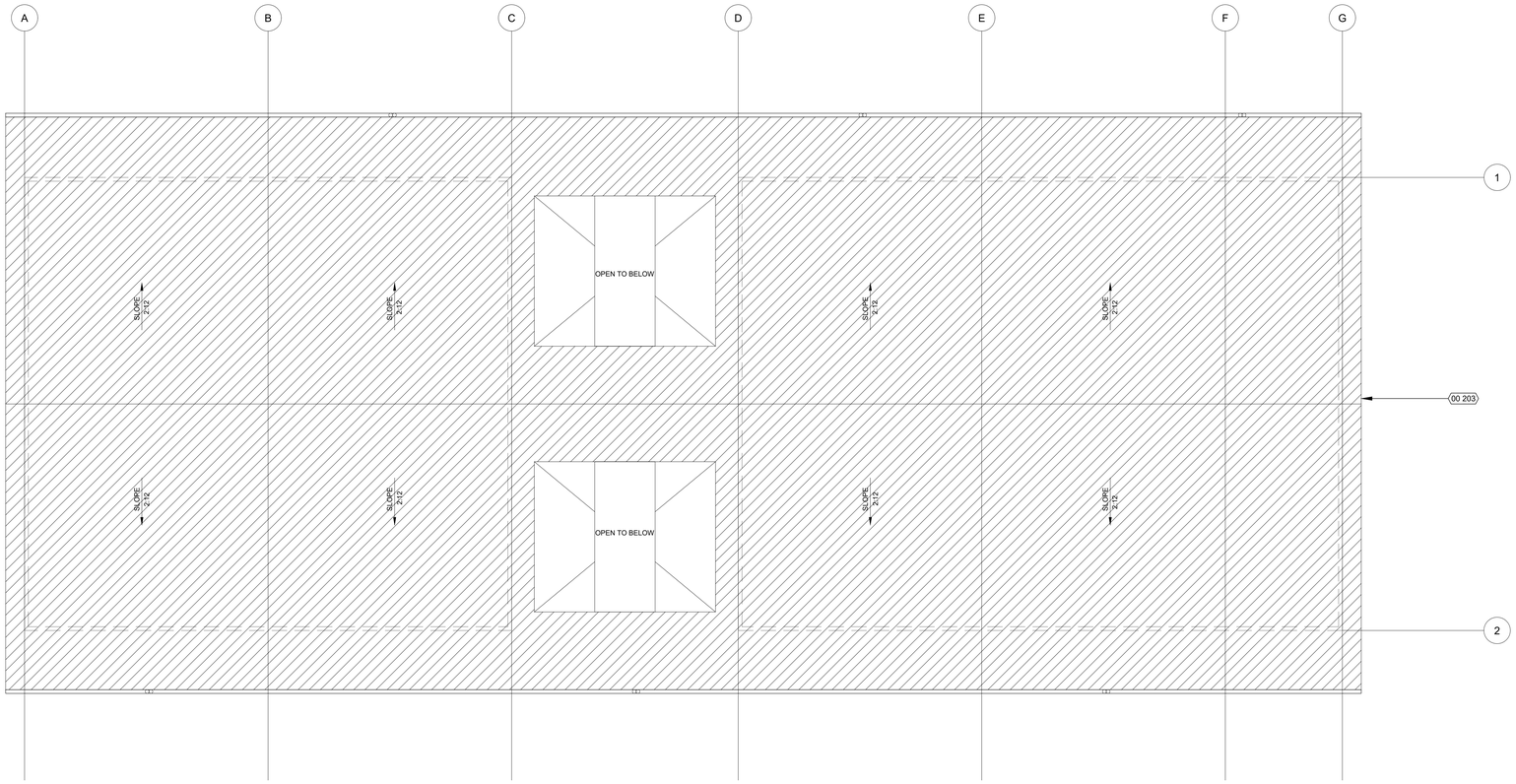
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

DEMO & NEW ROOF PLAN - CLASSROOM - BUILDING B

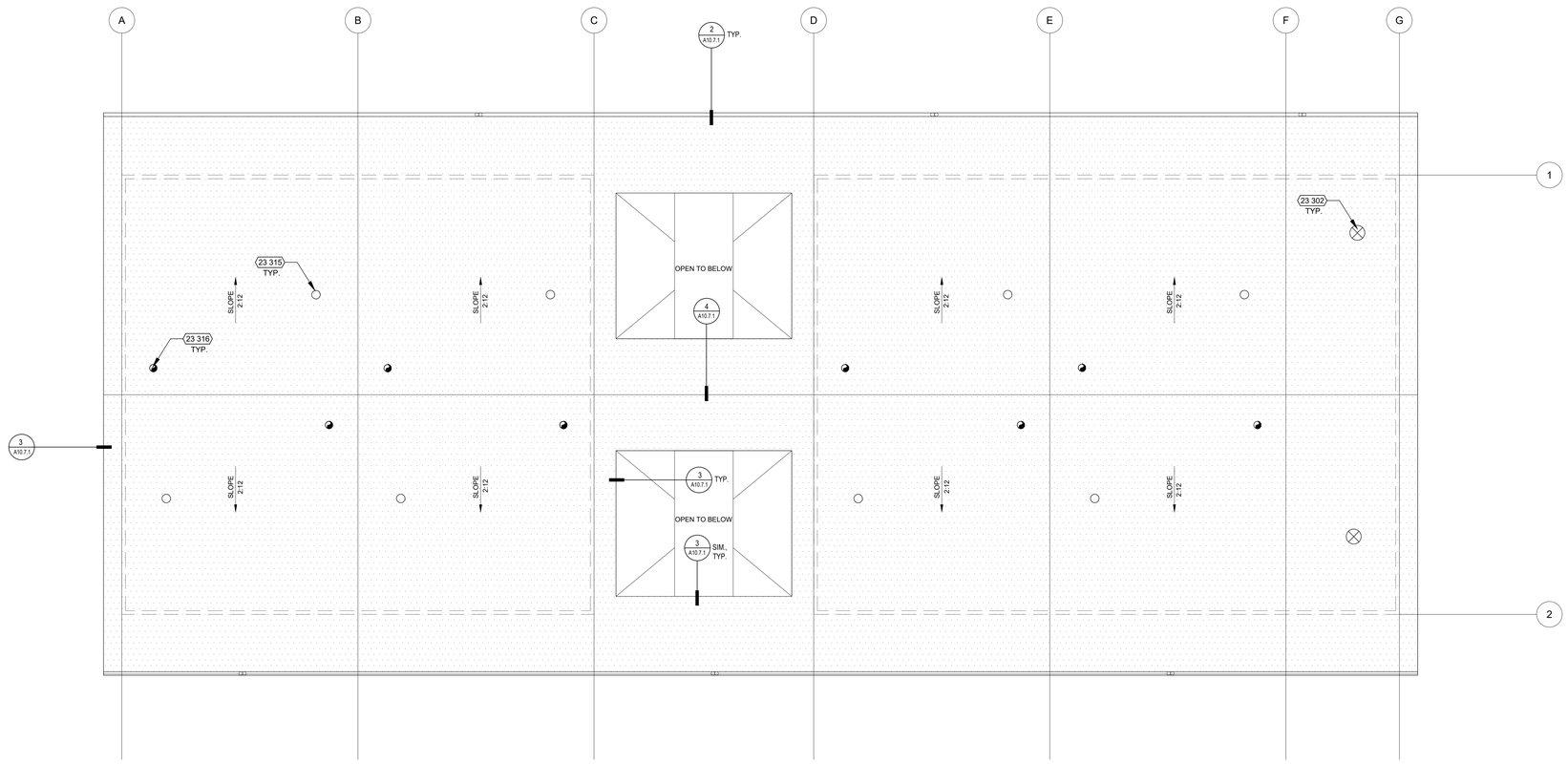
Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A4.2
Drawn KT / Checked CD	N



DEMO ROOF PLAN - CLASSROOM - BUILDING C

1/8" = 1'-0"

5



NEW ROOF PLAN - CLASSROOM - BUILDING C

1/8" = 1'-0"

10

KEY NOTES

NUMBER	NOTE
00 203	DEMOLISH (E) ROOF SYSTEM TO ALLOW FOR NEW ROOFING AND HVAC EQUIPMENT PENETRATION. COORDINATE WITH MECHANICAL DRAWINGS FOR DEMOLITION AND NEW EQUIPMENT LOCATIONS.
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23 315	NEW ROOF PENETRATION FOR MECHANICAL SYSTEM, SEE DETAIL 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.

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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.
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LEGEND

(E) ROOFING TO BE REMOVED

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

(E) EXTERIOR WALLS BELOW

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ARCHITECT	ENGINEER
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REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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SAN JOSE, CA 95127

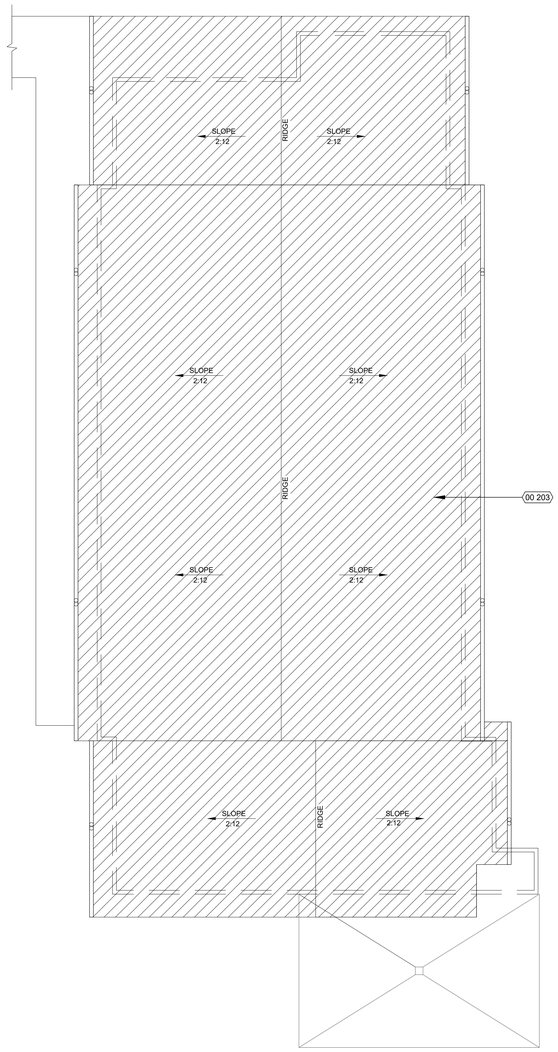
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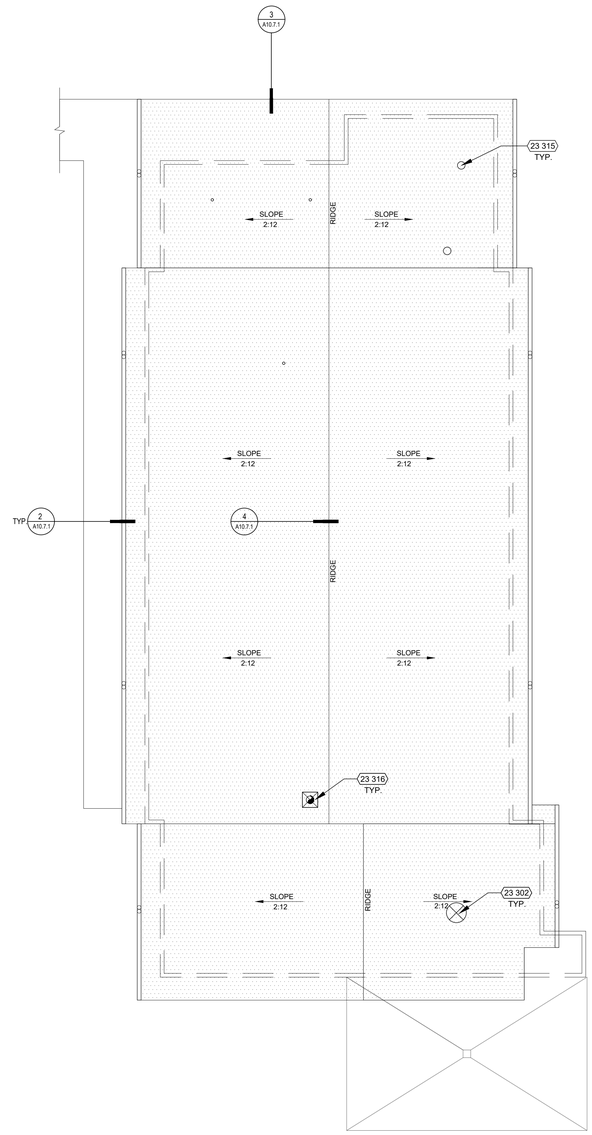
DEMO & NEW ROOF PLAN - CLASSROOM - BUILDING C

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A4.3
Drawn / Checked	
KT / CD	N



N

DEMO & NEW ROOF PLAN - MULTI-USE - BUILDING D 1/8" = 1'-0" 20



N

NEW ROOF PLAN - MULTI-USE - BUILDING D 1/8" = 1'-0" 10

KEY NOTES

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LEGEND

(E) ROOFING TO BE REMOVED

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

(E) EXTERIOR WALLS BELOW

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ARCHITECT	ENGINEER

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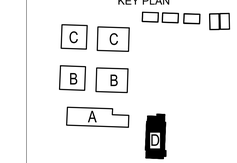
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
● DSA PLAN CHECK	12/23/2022
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KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

DEMO & NEW ROOF PLAN - MULTI-USE - BUILDING D

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	N A4.4
Drawn / Checked	
KT / CD	

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

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

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	CEILING	COMMENTS
A01	RECEPTION	ACT-2	PATCH/REPAIR ANY DAMAGED EXISTING 2X2 ACT PANELS
A02	NURSE	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
A03	MECHANICAL	P-1	PAINT EXISTING GLUE-UP TILES P-1
A04	TOILET	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
A05	WOMEN	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
A06	PRINCIPAL	ACT-2	PATCH/REPAIR ANY DAMAGED EXISTING 2X2 ACT PANELS
A07	OFFICE	ACT-2	PATCH/REPAIR ANY DAMAGED EXISTING 2X2 ACT PANELS
A08	WORKROOM	P-1	PAINT EXISTING GLUE-UP TILES P-1
A09	MECHANICAL ROOM	P-1	PAINT EXISTING GLUE-UP TILES P-1
A10	MEN	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
A11	LIBRARY	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
A12	KINDERGARTEN	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
A13	KINDERGARTEN	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
A14	TOILET	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
A15	TOILET	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
A16	WORKROOM	P-1	PAINT EXISTING GLUE-UP TILES P-1
A17	OFFICE	ACT-2	PATCH/REPAIR ANY DAMAGED EXISTING 2X2 ACT PANELS
A18	HALL	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
A19	LOUNGE	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B01	BOY'S	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
B02	STAFF TOILET	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
B03	MECHANICAL	P-1	PAINT EXISTING GLUE-UP TILES P-1
B04	GIRL'S	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
B05	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B06	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B07	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B08	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B09	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B10	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B11	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
B12	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C01	BOY'S	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
C02	ELECTRICAL ROOM	P-1	PAINT EXISTING GLUE-UP TILES P-1
C03	MECHANICAL	P-1	PAINT EXISTING GLUE-UP TILES P-1
C04	GIRL'S	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
C05	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C06	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C07	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C08	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C09	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C10	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C11	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
C12	CLASSROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
D01	OFFICE	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
D02	OFFICE	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
D03	BAND ROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
D04	MECHANICAL ROOM	ACT-1	PATCH/REPAIR ANY DAMAGED EXISTING 2X4 ACT PANELS
D05	STAGE	P-1	PAINT EXISTING GLUE-UP TILES P-1
D06	MUTLI-USE	P-1	PAINT EXISTING GLUE-UP TILES P-1
D07	KITCHEN	P-1	PAINT EXISTING GLUE-UP TILES P-1
D11	TOILET	P-1	T-1 FOR WALLS WHERE FIXTURE RELOCATION OCCURS
D12	STORAGE	P-1	PAINT EXISTING GLUE-UP TILES P-1
D13	JANITOR	P-1	PAINT EXISTING GLUE-UP TILES P-1
D14	WH	P-1	PAINT EXISTING GLUE-UP TILES P-1

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 $\frac{5}{8}$" MOISTURE RESISTANT GYPSUM BOARD
5. CERAMIC TILE AT FLOORS OVER DEPRESSED SLABS WITH FLOOR DRAINS SHALL BE FULL SET

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 12/23/2022	

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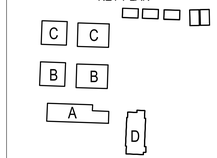
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

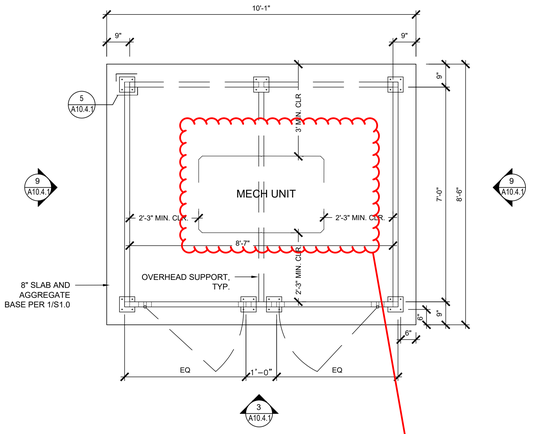
ROOM FINISH SCHEDULE

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A9.1
Drawn / Checked	
KT / CD	

N

NOTE:
POST-INSTALLED ANCHORS ARE EXEMPT FROM STRUCTURAL TESTS/SPECIAL INSPECTION PER DSA 103 FORM.

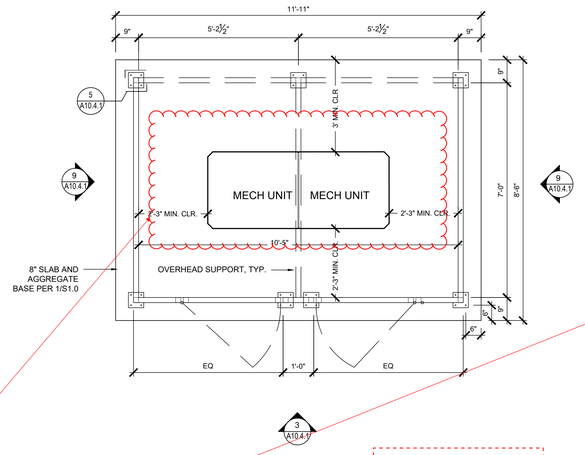
NOTE:
WELDING OF MECHANICAL ENCLOSURE IS EXEMPT PER DSA 103 TESTING AND INSPECTION FORM.



MECHANICAL ENCLOSURE TYPE 3 | 1/2" = 1'-0" | 22

NOTE:
POST-INSTALLED ANCHORS ARE EXEMPT FROM STRUCTURAL TESTS/SPECIAL INSPECTION PER DSA 103 FORM.

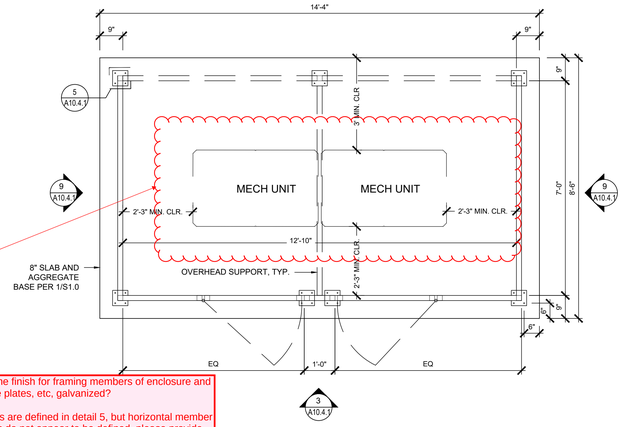
NOTE:
WELDING OF MECHANICAL ENCLOSURE IS EXEMPT PER DSA 103 TESTING AND INSPECTION FORM.



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

NOTE:
POST-INSTALLED ANCHORS ARE EXEMPT FROM STRUCTURAL TESTS/SPECIAL INSPECTION PER DSA 103 FORM.

NOTE:
WELDING OF MECHANICAL ENCLOSURE IS EXEMPT PER DSA 103 TESTING AND INSPECTION FORM.



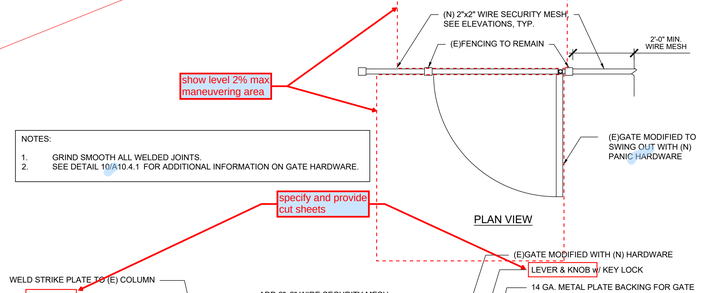
Define finish for framing members of enclosure and base plates, etc, galvanized?

Posts are defined in detail 5, but horizontal member sizes do not appear to be defined, please provide on plans / elevations for all enclosures

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

provide / reference mech unit anchorage detail, typ

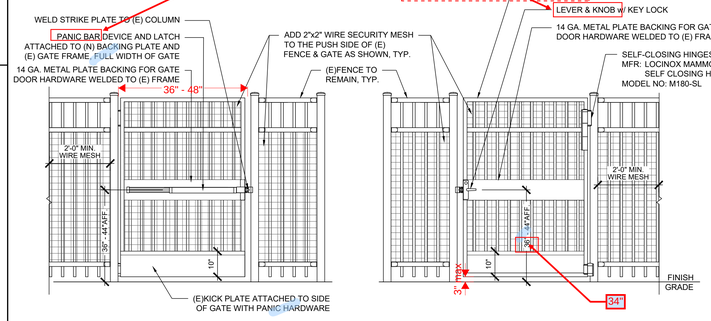
show level 2% max maneuvering area



NOTES:
1. GRIND SMOOTH ALL WELDED JOINTS.
2. SEE DETAIL 10/A10.4.1 FOR ADDITIONAL INFORMATION ON GATE HARDWARE.

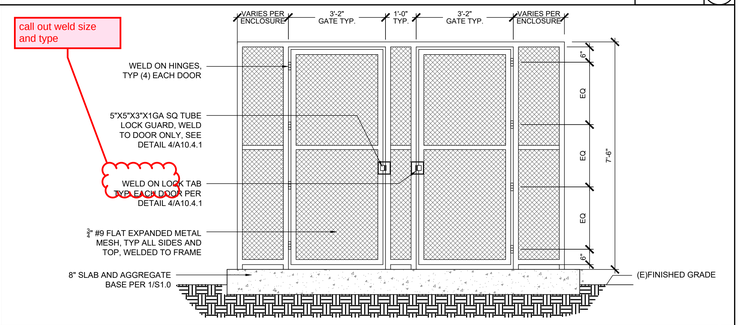
specify and provide cut sheets

(E)GATE MODIFIED WITH (N) HARDWARE
LEVER & KNOB w/ KEY LOCK
14 GA. METAL PLATE BACKING FOR GATE DOOR HARDWARE WELDED TO (E) FRAME
SELF-CLOSING HINGES: MFR: LOCINOX MAMMOTH SELF CLOSING HINGES MODEL NO: M180-SL



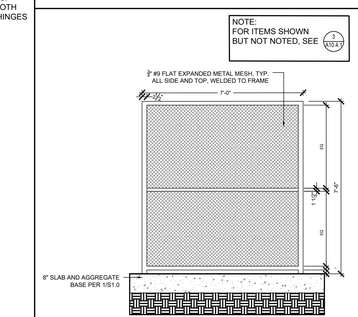
(E) GATE MODIFICATION - DETAIL | 1/2" = 1'-0" | 14

call out weld size and type

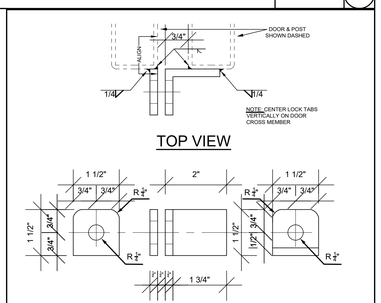


ENCLOSURE - FRONT ELEVATION | 1/2" = 1'-0" | 3

NOTE:
FOR ITEMS SHOWN BUT NOT NOTED, SEE 3/A10.4

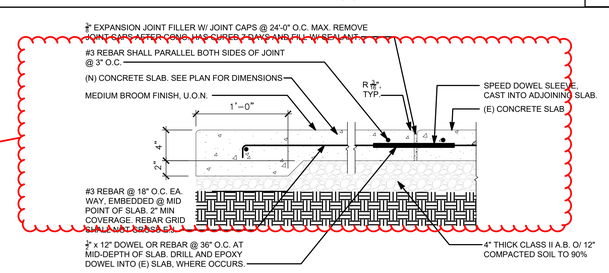


ENCLOSURE - SIDE ELEVATION | 3/8" = 1'-0" | 9



LOCK TABS | 6" = 1'-0" | 4

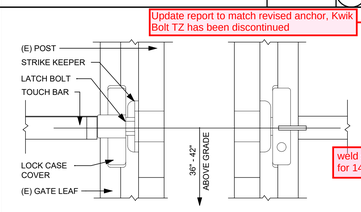
Reference structural drawings for typical reinforcing lap splice, hook bend and radius and other typical reinforcing information



NOTES:
1. SCORE JOINTS SHALL BE PLACED A MAX. OF 6'-0" O.C.
2. SCORE JOINTS SHALL BE ¾" WIDE MAXIMUM, ¾" RADIUS BOTH SIDES, AND ¾" DEEP

(N) SIDEWALK PAVING | 1 1/2" = 1'-0" | 15

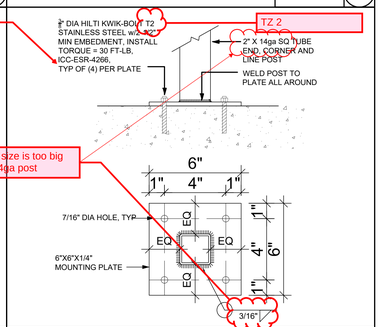
Update report to match revised anchor, Kwik Bolt TZ has been discontinued



NOTE:
1. GATE HARDWARE TO COMPLY WITH CBC 11B-404

TYP. SWING GATE ACCESSORIES | 3" = 1'-0" | 10

TZ 2



POST BASE | 3" = 1'-0" | 5

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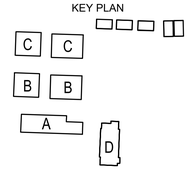
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
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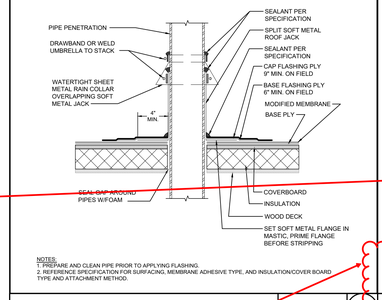
EXTERIOR DETAILS
Y

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A10.4.1
Drawn / Checked	
KT / CD	

SEOR to justify specified attachment pattern is capable of resisting design wind C&C uplift pressures

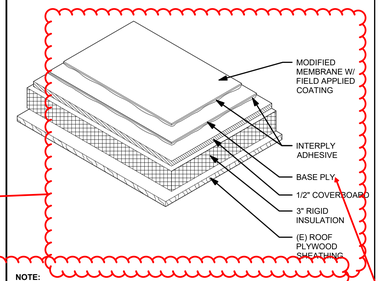
B. Nails and Fasteners: Non-ferrous metal or galvanized steel, except that hard copper nails shall be used with copper; aluminum or stainless steel nails shall be used with aluminum; and stainless steel nails shall be used with stainless steel. Fasteners shall be self-clinching type of penetrating type as recommended by the deck manufacturer. Fasten nails and fasteners flush–driven through flat metal discs not less than 1 inch (25 mm) diameter. Omit metal discs when one-piece composite nails or fasteners with heads not less than 1 inch (25 mm) diameter are used.

Attachment information is to be shown on the drawings. Specs do not indicate nail size or spacing. Note here does not mention the base ply either. Attachment of base ply / coverboard through rigid insulation to structural framing / sheathing is to be defined on drawings.



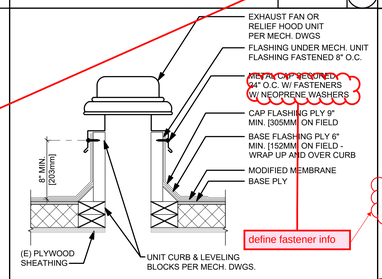
NOTES:
1. PREPARE AND CLEAN PIPE PRIOR TO APPLYING FLASHING.
2. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

PIPE PENETRATION AT ROOF 3" = 1'-0" 6



NOTE:
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVERBOARD TYPE AND ATTACHMENT METHOD

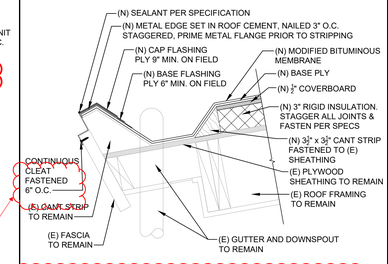
TYPICAL 2-PLY ROOFING SYSTEM - MODIFIED BITUMINOUS ROOF 1/8" = 1'-0" 1



define fastener info

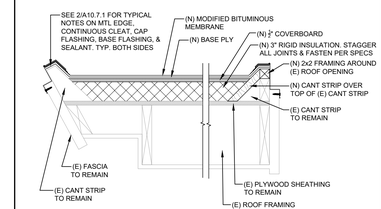
NOTE:
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

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



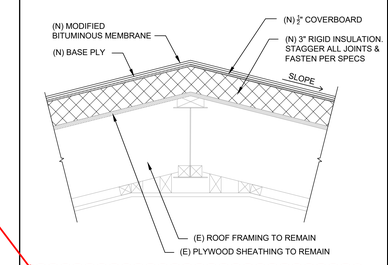
NOTE:
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

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



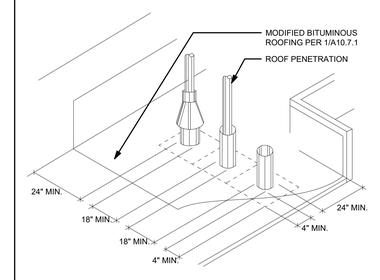
NOTE:
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

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



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

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



TYPICAL PENETRATION CLEARANCES AT ROOF 1" = 1'-0" 5

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Define base ply thickness

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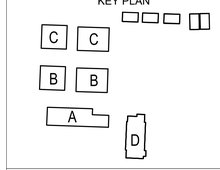
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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CONSTRUCTION DOCUMENTS

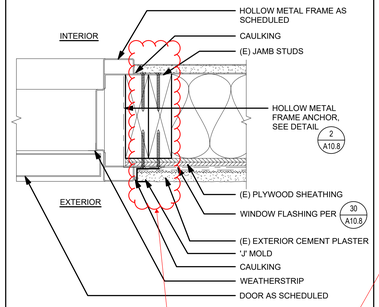
ADELANTE ACADEMY II

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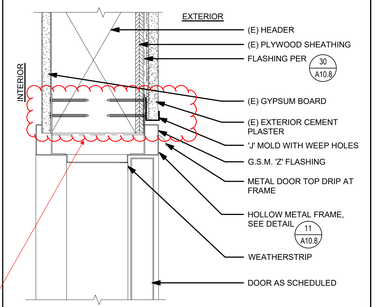
ROOF DETAILS

N

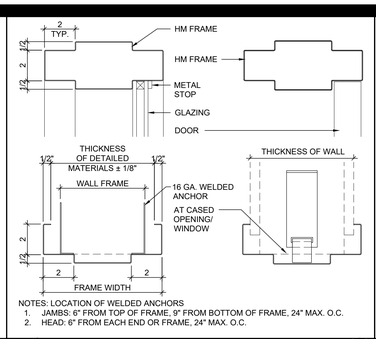
Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A10.7.1
Drawn / Checked	
KT / CD	



JAMB AT EXTERIOR DOOR 3" = 1'-0" 21

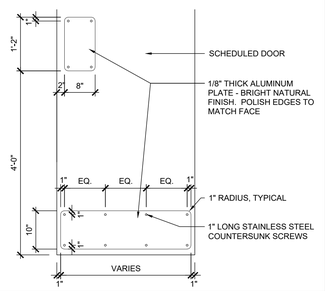


HEAD AT EXTERIOR DOOR 3" = 1'-0" 16

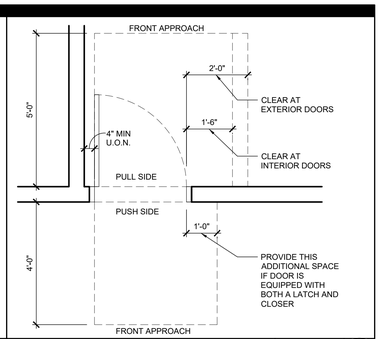


NOTES: LOCATION OF WELDED ANCHORS
1. JAMBS: 6" FROM TOP OF FRAME, 8" FROM BOTTOM OF FRAME, 24" MAX. O.C.
2. HEAD: 6" FROM EACH END OR FRAME, 24" MAX. O.C.

TYPICAL HM FRAMES 3" = 1'-0" 11

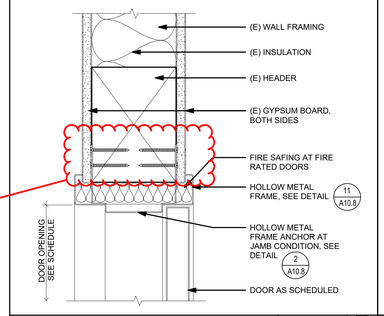


ALUM. KICK & PUSH PLATES 3/4" = 1'-0" 6

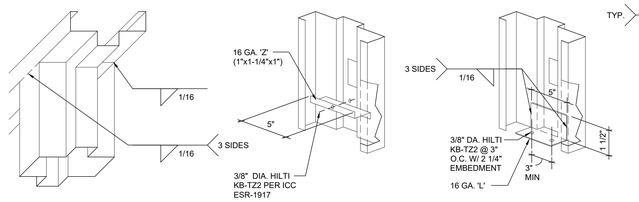


TYPICAL DOOR CLEARANCES 1/2" = 1'-0" 1

identify fasteners (size, type, length, spacing etc)



HEAD/JAMB AT INTERIOR DOOR 3" = 1'-0" 17



TYP. MULLION & HEAD WELD — D

NOTE:
FOR ADDITIONAL INSTALLATION INFORMATION, SEE SPECIFICATIONS

BOLT-IN-Z — C

3 ANCHORS PER JAMB. NOT TO EXCEED 24" O.C. PUNCH AND DIMPLE FOR 3/8" BOLTS AND PROVIDE 'Z' SPACERS AT EA. BOLTS, SHIELDS, SHIMS, ETC. AND 2 AT HEAD, NOT TO EXCEED 24" O.C. FOR CONNECTION AT CONCRETE PLINTH

FLOOR CLIP — B

STUD CAP — A

ANCHOR SPACING PER TYPICAL HM FRAMES DETAIL 6/A10.8 OVERLAP HM FRAME AND GYP. BD. BY 1/2"

NOTES:
1. REFER TO PROFILES.
2. ALL HOLLOW METAL FRAME/JAMBS SHALL BE CUT FOR STANDARD UNIT LOCK STRIKES 3/4" HIGH.
3. FRAME DIMENSIONS ARE FROM FINISH PAVING. FRAME DIMENSIONS MAY VARY DUE TO FINISH MATERIALS.
4. SEE 'RATING' ON DOOR SCHEDULE FOR REQUIRED RATED DOORS.
5. VERIFY ALL DOOR AND FRAME OPENING SIZES AND WALL AND DOOR FRAME WIDTHS ON SITE.
6. PER CBC 715.4, APPROVED FIRE DOOR HARDWARE AND FIRE DOOR FRAMES INCLUDING THE ANCHORAGE THEREOF SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING.
7. ADHERE TO UBC STANDARD 7-2 FOR INSTALLATION OF DOOR FRAMES.
8. UNDERCUT ALL DOORS TO CLEAR FLOOR FINISH BY 1/4" EXCEPT AT RATED DOORS.

TYPICAL HM DOOR AND FRAME DETAILS 12" = 1'-0" 2

1. INDIVIDUALLY FLASH ALL EXTERIOR OPENINGS FOR FIXTURES SUCH AS WINDOWS, DOORS, AND VENTS TO MAKE THEM WATER TIGHT. PENETRATION FLASHING MATERIAL SHALL BE BARRIER COATED REINFORCED AND SHALL PROVIDE 4 HOUR MIN. PROTECTION FROM WATER PENETRATION WHEN TESTED IN ACCORDANCE WITH ASTM D-779. SEALANT SHALL COMPLY TO FF T-S- 1657. IN HIGH WIND AREAS A WATERPROOF SHEET MEMBRANE SHALL BE USED OVER SOLID BACKING.
2. APPROVED FLASHING MATERIAL SHALL BE AT LEAST 9" WIDE. FLASHING SHALL BE APPLIED IN A WEATHERBOARD FASHION AROUND THE FULL PERIMETER OF THE OPENING.
3. APPLY THE FIRST STRIP HORIZONTALLY IMMEDIATELY BELOW THE SILL, CUT IT SUFFICIENTLY LONG TO EXTEND PAST EACH SIDE OF THE WINDOW, SO THAT IT PROJECTS BEYOND THE VERTICAL FLASHING TO BE APPLIED LATER. FASTEN THE TOP EDGE OF THE SILL FLASHING TO THE FRAMING, BUT DO NOT FASTEN THE LOWER EDGE, SO THE WEATHER-RESISTIVE BARRIER APPLIED LATER MAY BE SLIPPED UP AND UNDERNEATH THE FLASHING IN WEATHERBOARD FASHION. (**SEE FIGURE A**)
4. NEXT, FASTEN STRIPS OF FLASHING AT EACH VERTICAL EDGE (JAMB) OF THE OPENING. RUN THIS FLASHING BEYOND THE SILL FLASHING AND ABOVE WHERE THE HEAD FLASHING WILL INTERSECT. (**SEE FIGURE B**)
5. APPLY A CONTINUOUS SEAL TO THE BACKSIDE (INTERIOR) OF THE MOUNTING FLANGE NEAR THE OUTER EDGE OR A CONTINUOUS SEAL TO THE PERIMETER OF THE OPENING AT A POINT TO ENSURE CONTACT WITH THE BACKSIDE (INTERIOR) OF THE MOUNTING FLANGE. (**SEE FIGURE C**)
6. FOR FIXTURES WITHOUT A NAIL-ON-FLANGE THE FLASHING SHALL BE 12" MIN. WIDE AND EXTEND INTO THE ROUGH FRAME AT THE SILL AND JAMB IN A WEATHERBOARD FASHION.
7. THE FIXTURE SHALL THEN BE INSTALLED.
8. NEXT, APPLY A CONTINUOUS SEAL AT THE TOP (HEAD) MOUNTING FLANGE OR G.S.M. HEAD FLASHING AND EMBED THE BOTTOM OF THE HEAD FLASHING OVER THE SEALANT AND THE MOUNTING FLANGE OR G.S.M. FLASHING. CUT THIS FLASHING SUFFICIENTLY LONG SO THAT IT WILL EXTEND BEYOND EACH JAMB FLASHING. FASTEN IN PLACE. (**SEE FIGURE D**)
9. APPLY REMAINING WEATHER-RESISTIVE BARRIER IN A WEATHERBOARD FASHION WITH THE SILL FLASHING LAPPING OVER THE TOP, AND THE HEAD AND JAMB FLASHING BELOW.
10. BASED UPON INDUSTRY STANDARDS APPROVED BY THE CALIFORNIA ASSOCIATION OF WINDOW MANUFACTURERS, (CAWM).

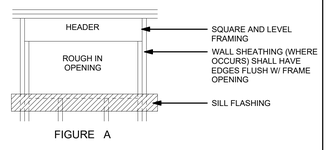


FIGURE A

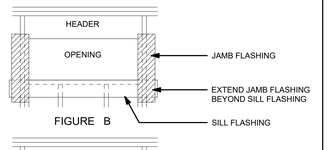


FIGURE B

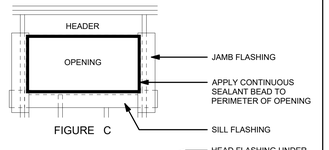


FIGURE C

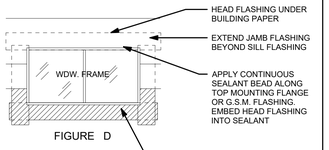
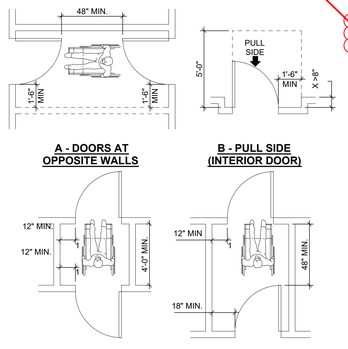


FIGURE D

FLASHING AT EXT. WALL OPENINGS 1/4" = 1'-0" 30

Provide door labels on floor plan

specify HWs and provide cut sheets



NOTE:
- ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES

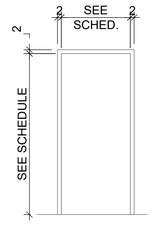
FOOTNOTE:
1. PROVIDE THIS ADDITIONAL SPACE IF DOOR IS EQUIPPED WITH BOTH A LATCH AND A CLOSER.
2. 48" IF DOOR HAS BOTH A LATCH AND A CLOSER.
3. LANDING TO HAVE 2% MAX. SLOPE IN ANY DIRECTION.

MANEUVERING CLEARANCES 1/4" = 1'-0" 25

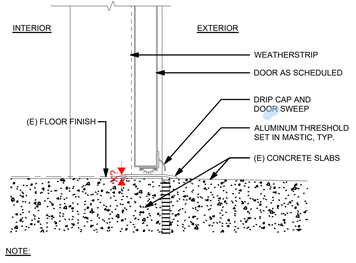
DOOR SCHEDULE

MARK	DOOR SIZE PAIR	SIZE PANEL WIDTH	SIZE HT	SIZE THK	DOOR TYPE	DOOR MAT.	DOOR FINISH	DOOR CORE	DOOR GLASS	DOOR RATING	LOUVER HT	LOUVER WD	HDW PANIC	HDW CLOSER	FRAME TYPE	FRAME MTL	FRAME FINISH	FRAME GLASS	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	DETAILS OTHER	COMMENTS
D03A	-	3'-0"	7'-0"	1 3/4"	A	HM	P-#	HM	-	1 HOUR	-	-	P	Y	A	HM	P-#	-	17/A10.8	17/A10.8	10/A10.8		
D04A	-	3'-0"	7'-0"	1 3/4"	A	HM	P-#	HM	-	-	-	-	-	Y	A	HM	P-#	-	16/A10.8	21/A10.8	10/A10.8		

DOOR FRAME TYPES



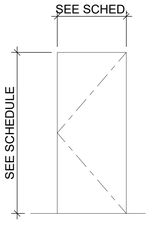
TYPE A



NOTE:
FOR REQUIRED DOOR CLEARANCES, SEE 25/A10.8
FOR ADDITIONAL DOOR REQUREMENTS, SEE 15/A10.8

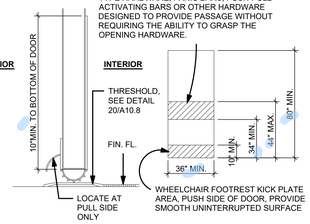
SILL AT EXTERIOR DOOR 3" = 1'-0" 20

DOOR TYPES



TYPE A
FLUSH

NOTE:
MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR INTERIOR AND EXTERIOR DOORS, 15 LBS. FOR FIRE DOORS. DOOR CLOSERS, IF PRESENT, MUST BE SET SO THAT IT TAKES DOOR AT LEAST 5 SECONDS TO CLOSE FROM AN OPEN POSITION OF 90 DEGREES TO WITHIN 12 DEGREES OF THE LATCH.



DOOR DETAILS 3" = 1'-0" 15

DOOR ABBREVIATIONS

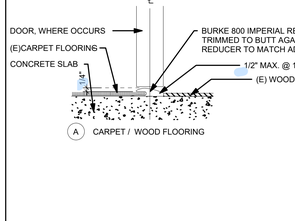
CORE:
GL GLASS
HM HOLLOW METAL
INSUL INSULATED
SC SOLID CORE
SCWD SOLID CORE WOOD

DOOR PANEL FINISH:
P-# PAINTED - SEE FINISH SCHEDULE

DOOR FRAME FINISH:
P-# PAINTED - SEE FINISH SCHEDULE

DOOR PANEL / FRAME MATERIAL:
AL ALUMINUM
HM HOLLOW METAL
STL STEEL
WD WOOD

HARDWARE:
P PANIC



INTERIOR FLOOR TRANSITIONS 3" = 1'-0" 10

GENERAL NOTES

MATERIALS AND FINISHES
1. MATERIALS, FINISHES AND INSTALLATION OF PRODUCTS REFERENCED IN THE DOOR SCHEDULE SHALL BE IN ACCORDANCE WITH REQUIREMENTS SPECIFIED IN THE RESPECTIVE PRODUCT SECTIONS IN THE PROJECT MANUAL.
2. REFER TO WALL PARTITION TYPES AS INDICATED ON DRAWINGS TO DETERMINE FRAME DEPTH.
3. VERIFY ALL MASONRY OR STUD OPENINGS PRIOR TO FABRICATION OF FRAME EXACT SIZES AND CONFIGURATIONS OF ALL DOOR AND WINDOW SECTIONS SHALL BE VERIFIED ON THE SITE PRIOR TO FABRICATION.
4. TYPICAL DOOR BEVEL TO BE 1/8" IN 2" U.N.O. BY HARDWARE TEMPLATE REQUIREMENTS.
5. THE BOTTOM 10" OF ALL DOORS, EXCEPT AUTOMATIC AND SLIDING SHALL HAVE SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST.
6. ADJUST DOOR FRAME OPENING SIZES AS NECESSARY TO REFLECT VARIATIONS IN THE STRUCTURAL SLAB AND VARYING THICKNESS OF THE FLOOR FINISHES.
7. ALL ALUMINUM FRAMES, ALUMINUM STOREFRONT, ALUMINUM DOORS TO BE PAINTED WITH FLUOROPOLYMER PAINT FINISH, COLOR AS SCHEDULED.
8. WEATHERSTRIP ALL EXTERIOR DOORS.
9. FRAMES FOR EXTERIOR DOORS AND WINDOWS SHALL BE SET IN SEALANT.

FIRE RATED DOORS
1. AT RATED DOORS, PROVIDE ASSEMBLY PER CBC 716.5 WITH GLAZING PER 2019 CBC 716.5.8 COMPLYING WITH NFPA 80 AND WITH MAX. TESTING SIZE PER NFPA 252.
2. ALL FIRE DOORS SHALL HAVE SMOKE AND DRAFT CONTROL PER 2019 CBC 716.5.3.1.
3. ALL FIRE DOORS SHALL BE EQUIPPED WITH AUTOMATIC LATCHES.
4. ALL FIRE DOORS SHALL BE EQUIPPED WITH AUTOMATIC OR SELF CLOSING FIRE ASSEMBLIES PER 2019 CBC 716.5.9.
5. IF THE OPENING CONTAINS A DOOR AND NO SIDELIGHT, THE RATING OF THE FRAME SHALL MATCH THE RATING OF THE DOOR. IF THE OPENING CONTAINS A DOOR AND A SIDELIGHT, OR IF THE OPENING CONTAINS A WINDOW, THE RATING OF THE FRAME SHALL MATCH THE RATING OF THE GLAZING.
6. FIRE-RATED DOOR FRAMES SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. MANUFACTURER'S PRINTED INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTION AUTHORITY. 2019 CBC 716.5.7 AND 716.5.7.1
7. WHERE RATED OPENINGS OCCUR, PROVIDE ASSEMBLIES THAT HAVE BEEN TESTED BY A NATIONALLY RECOGNIZED TESTING AGENCY. INCLUDES ASSEMBLY COMPONENTS SUCH AS GLAZING, DOORS AND HARDWARE.
8. IDENTIFICATION OF FIRE DOORS, FIRE WINDOWS AND FIRE DAMPERS SHALL HAVE AN APPROVAL LABEL OR LISTING MARK INDICATING THE FIRE-PROTECTION RATING, WHICH IS PERMANENTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY ARE DONE. PERIODIC INSPECTIONS SHALL BE MADE BY AN APPROVED INSPECTION AGENCY DURING FABRICATION AND ASSEMBLY 2019 CBC 716
9. PROVIDE MARKINGS AT ALL RATED GLAZING AND FRAMES PER 2019 CBC 716.3
10. RATED DOORS SHALL HAVE AN UNDERCUT NOT EXCEEDING MAX. ALLOWABLE PER NFPA 80, SECTION 4.8.4.1 (3/4" MAX.)

EXITING AND PATH OF TRAVEL
1. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
2. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR BOTH INTERIOR AND EXTERIOR DOORS. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS (66.7 N).
3. ALL REQUIRED EXIT DOORS SHALL BE OPERABLE FROM INSIDE WITHOUT THE USE OF ANY SPECIAL KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
4. ALL REQUIRED EXIT DOORS SHALL BE SIZED NOT LESS THAN 3'-0" WIDE AND 6'-8" HIGH AND BE CAPABLE OF OPENING 90 DEG. AND MOUNTED SO THAT THE CLEAR WIDTH OF THE EXIT WAY IS 32" MIN., U.O.N.
5. ALL REQUIRED EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL.
6. THE FLOOR OR LANDING LENGTH ON EACH SIDE OF AN EXIT DOOR SHALL BE LEVEL (<2% MAX. SLOPE) AND CLEAR AT LEAST 60 INCHES IN THE DIRECTION OF THE DOOR SWING (PULL SIDE) AND 48 INCHES ON THE PUSH SIDE, WHEN MEASURED AT RIGHT ANGLES FROM DOOR IN CLOSED POSITION. THE CLEAR WIDTH SHALL EXTEND 24 INCHES BEYOND THE STRIKE ON THE PULL SIDE OF ALL EXTERIOR EXIT DOORS AND 16 INCHES FOR INTERIOR EXIT DOORS. THE CLEAR WIDTH SHALL EXTEND 12 INCHES BEYOND THE STRIKE EDGE OF THE PUSH SIDE OF ALL EXIT DOORS. DOORS SHALL BE EQUIPPED WITH BOTH A LATCH AND CLOSER. SEE DETAIL 1 / A10.8
7. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN THE PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVEL-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATED BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.

HARDWARE
1. HAND ACTIVATED HARDWARE SHALL BE BETWEEN 34" AND 44" A.F.F. COORDINATE MOUNTING HEIGHT. DO NOT TO OBSTRUCT DOOR VISION LIGHT WHERE OCCURS.
2. PANIC HARDWARE SHALL BE PROVIDED ON EXIT DOORS SERVING AN OCCUPANT LOAD OF 50 OR MORE. PROVIDE WALL OR FLOOR MOUNTED DOOR STOPS FOR ALL DOORS. LOCATE FLOOR MOUNTED DOOR STOP WITHIN 4" MAX. OF WALL. PROVIDE BACKING AT ALL WALL MOUNTED DOOR STOPS.
3. PROVIDE NON-REMOVABLE PINS ON ALL HINGES ACCESSIBLE FROM THE EXTERIOR.
4. PROVIDE CYLINDER GUARDS ON ALL MORTISED OR RIM TYPE CYLINDER LOCKS WHICH PROJECT BEYOND THE FACE OF THE DOOR.
5. DOOR CLOSERS SHALL CONFORM WITH 2019 CBC 11B-404.2.8.1
6. DOORS TO INCLUDE FACTORY INSTALLED MAGNETIC CONTACTS, 3/8" RECESSED PRESS FIT', COLOR TO MATCH WINDOW FRAME, AT ALL CLASSROOM DOORS, SEE MECHANICAL
7. ELECTRIFIED HARDWARE: COORDINATE ALL ELECTRICAL REQUIREMENTS WITH DIVISIONS 26 AND 27
8. NEW BUILDINGS SERVING K-12, CONSTRUCTED WITH STATE FUNDS, ON NEW OR EXISTING CAMPUSES WITH INDIVIDUAL ROOMS WITH AN OCCUPANT LOAD OF 5 OR MORE AND BUILDING ENTRANCES SHALL BE EQUIPPED WITH INTERIOR LOCKING DOOR HARDWARE PER AB-211 (EXCEPT PUPIL RESTROOMS). THIS REQUIREMENT APPLIES REGARDLESS OF OCCUPANCY CLASSIFICATION (ADMIN., PRESS BOXES, ETC.), AND IS APPLICABLE TO "LEASE BACK" PROJECTS. PROVIDE A COPY OF THE MANUFACTURER'S CUT SHEETS AND HARDWARE LISTING FOR REVIEW. (REF: 17075.50 (a) (b), CAL. ED. CODE).
9. KICKPLATES PER DETAIL 6 / A10.8

DSA STAMP

STUDIO W ARCHITECTS

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 12/23/2022	

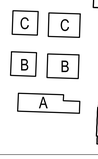
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REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS — DATE 12/23/2022
- (●) DSA PLAN CHECK
- ( ) DSA BACK CHECK
- ( ) BIDDING
- ( ) CONSTRUCTION

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

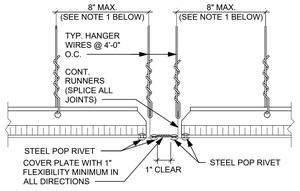
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

DOOR SCHEDULE AND DETAILS

Date	Project Number
12/23/2022	22025
Application Number 01-120630	Drawing Number A10.8
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

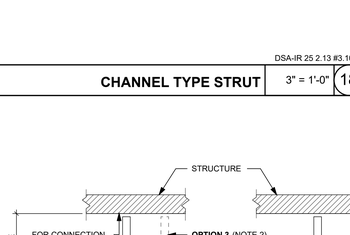
COMPRESSION STRUT TABLE

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"

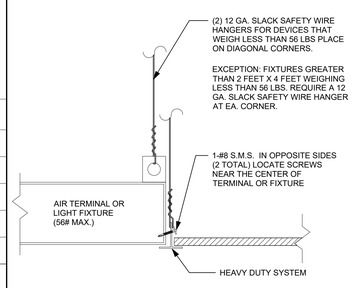
DSA IR 25-2.13 #3.21

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



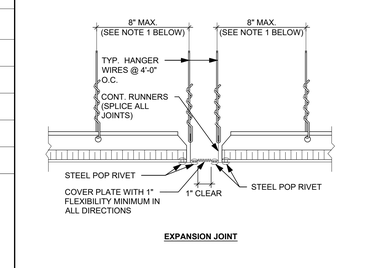
DSA-IR 25 2.13 #3.10A

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

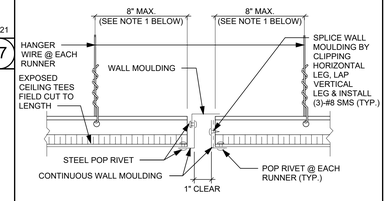


DSA IR 25-2.13 #2.80

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



EXPANSION JOINT



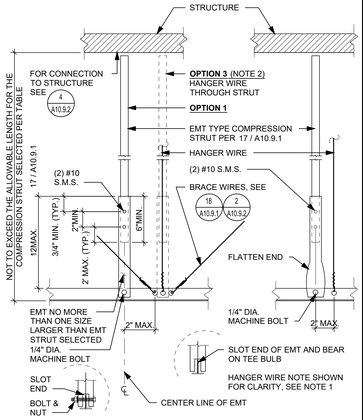
EXPANSION JOINT ALTERNATE

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

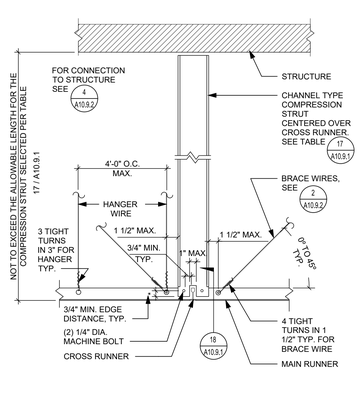
OPTION 2

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.

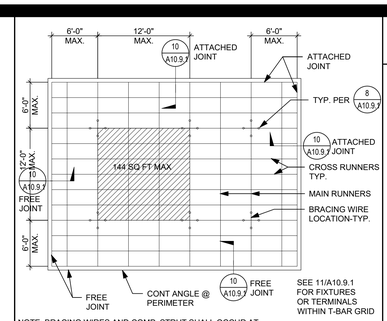
DSA IR 25-2.13 #3.20

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



DSA-IR 25 2.13 #3.10

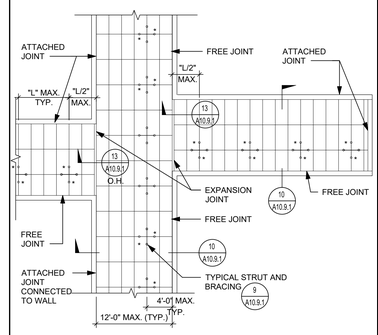
CHANNEL TYPE STRUT 1 1/2" = 1'-0" 15



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

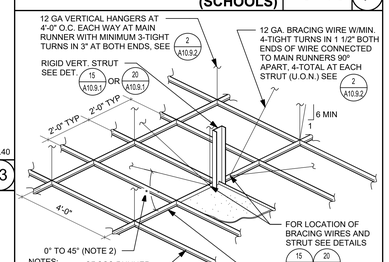


LOCATION OF EXPANSION/SLIP JOINTS IN CORRIDORS

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

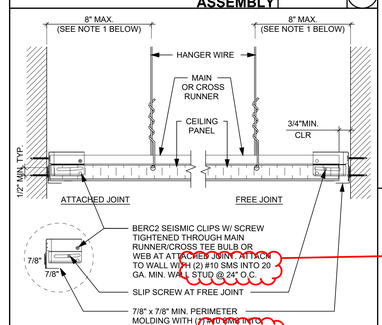
CORRIDOR CEILING PLAN (SCHOOLS) 3" = 1'-0" 7



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-25-2.13 - APPENDIX A (rev 11/09/17)

1. CEILING SYSTEM GENERAL NOTES:

1.01 Ceiling system components shall comply with ASTM C635-07 and Section 5.1 of ASTM E580-10a.
1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635-08.
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 XL7301
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 mratory 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 A641-09a. Wire shall be #12 gage (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 A653-11, or other equivalent sheet steel listed in Section A2.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members 2007, including supplement 2 dated 2010 (AISI S100-07S2-10). Material 43 mil (18 gage) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gage) 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 C1513-10, ASME B18.6.4-89 (R2005).
4.02 Expansion anchors shall be: HILTY KB-TZ2 ANCHOR ICC NO. ESR 4266
4.03 Power-Actuated Fasteners shall be: HILTI 0.138 DIA. PAF X-CR INTO CONCRETE BASE MATERIAL - ICC NO. ESR 1663
4.04 If not otherwise specified in the project work, 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 50 percent in accordance with CBC Section 1913A.7.

6. LIGHT FIXTURES:

6.01 All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the fixture. 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 light fixtures 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 gage. Rotational spring catches do not comply. A #12 gage slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed eight (8) feet.
6.03 Light fixtures 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 Light fixtures 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 Light fixtures 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 light fixtures greater than two by four feet weighing less than 56 lbs. shall have a #12 gage slack safety wire at each corner.
6.06 All Light fixtures 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 gage 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 gage 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 gage 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 gage 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 gage slack safety wire anchored to the structure above. Devices weighing more than 20 lb. shall be supported independently from the structure above.

update: current IR is 25-2.19

Note: Report is subject for renewal in December 2022. Verify report is current (updated) prior to approval

where are expansion anchors and PAF's required at the ceiling assembly? Remove notes if not required.

wall framing is wood. call out appropriate fasteners

coordinate note with wall stud spacing on project (16" o.c.) or call out backing detail

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRIAN P WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 12/23/2022	

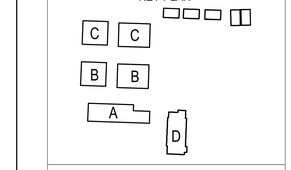
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REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS — DATE 12/23/2022
- (●) DSA PLAN CHECK
- ( ) DSA BACK CHECK
- ( ) BIDDING
- ( ) CONSTRUCTION

KEY PLAN



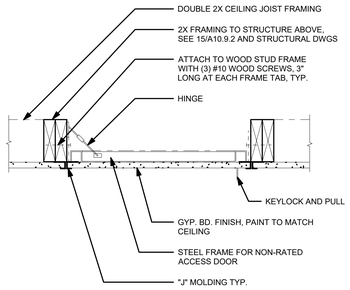
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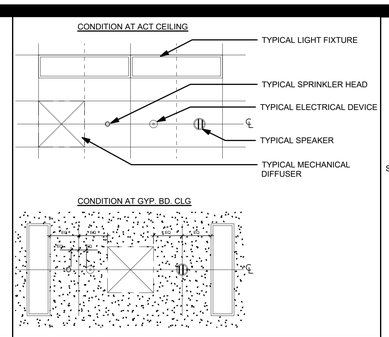
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SAN JOSE, CA 95116

TYPICAL SUSPENDED ACOUSTIC CEILING DETAILS N

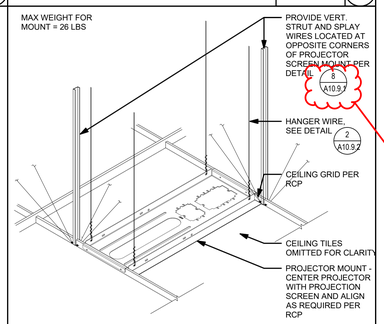
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12/23/2022	22025
Application Number	Drawing Number
01-120630	A10.9.1
Drawn / Checked	
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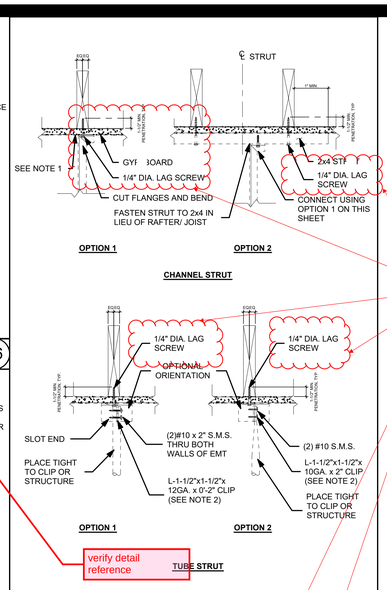
CEILING ACCESS PANEL 3" = 1'-0" 21



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



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

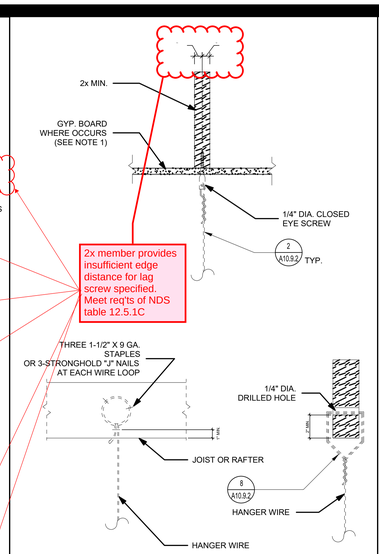


NOTES:

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

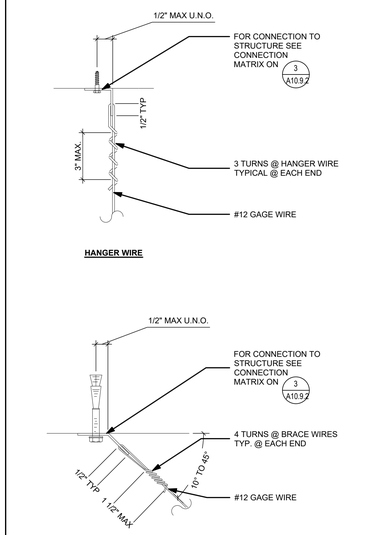
STRUT CONNECTION TO SAWN TIMBER WITH GYPSUM BOARD 1-1/2" = 1'-0" 12



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



DSA IR 25-2.13 #4.10

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

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

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

STRUCTURAL CONDITION OF FLOOR/ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACING WIRE DETAIL
METAL DECK	4.20 (N/A)	4.30 (N/A)
CONCRETE OVER METAL DECK	4.21 (N/A)	4.31 (N/A)
CONCRETE SLAB, BEAM, OR JOIST	4.22 (N/A)	4.32 (N/A)
STRUCTURAL STEEL	4.23 (N/A)	4.33 (N/A)
METAL STUD WALL	4.24 (N/A)	4.34 (N/A)
SAWN TIMBER	4.25 & 4.29 7 / A10.9.2 & 8 / A10.9.2	4.35 10 / A10.9.2
WOOD I JOIST	4.26 (N/A)	4.36 & 4.37 (N/A)
WOOD CHORD TRUSS	4.27 & 4.29 (N/A)	4.29 & 4.38 (N/A)
OPEN WEB STEEL JOIST	4.28, 4.29 (N/A)	4.29, 4.39 (N/A)

remove if not applicable to this project

DSA IR 25-2.13 #4.11

HANGER AND BRACING WIRE CONNECTION MATRIX NTS 3

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

COMPRESSION STRUT CONNECTION TO STRUCTURE NTS 4

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

DSA IR 25-2.13 #4.35

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

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

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

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

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

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LICENSED ARCHITECT BRIAN P WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 12/23/2022	

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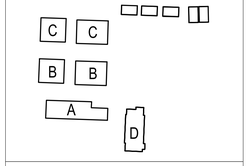
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KEY PLAN



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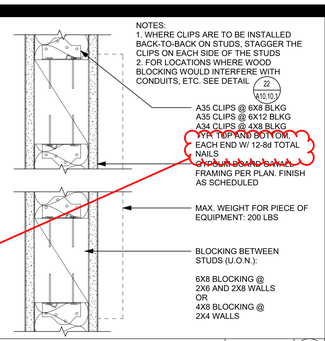
CONSTRUCTION DOCUMENTS

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CEILING DETAILS

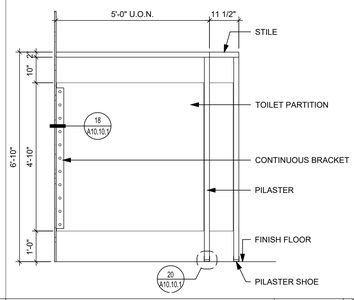
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Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A10.9.2
Drawn / Checked	
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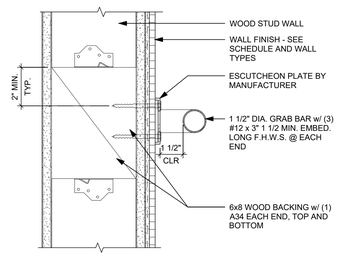


Coordinate with SEOR to verify an approved fastener is used with the A35 clips. These are proprietary and shall be installed per manufacturer's directions to achieve listed values

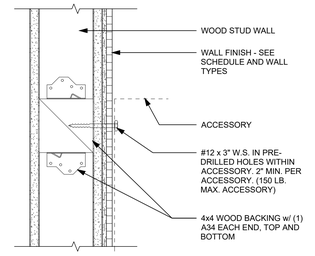
TYPICAL WALL BLOCKING 3" = 1'-0" 21



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



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

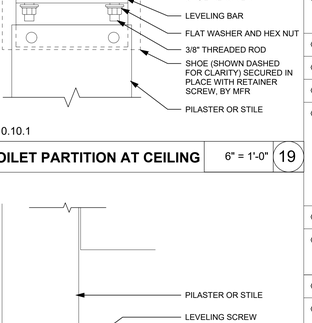


TYPICAL ACCESSORY MOUNTING 3" = 1'-0" 6

KEY NOTES

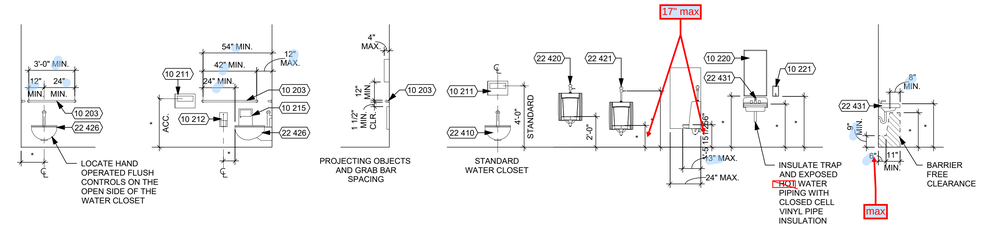
NUMBER	NOTE
10 201	TOILET PARTITION (SEE DETAIL 16/A10.10.1)
10 202	URINAL SCREEN (SEE DETAIL 17/A10.10.1)
10 203	GRAB BAR (SEE DETAIL 11/A10.10.1)
10 210	SANITARY NAPKIN DISPENSER, SEMI-RECESSED
10 211	TOILET SEAT COVER DISPENSER, SURFACE MOUNTED
10 212	TOILET PAPER DISPENSER, SURFACE MOUNTED
10 215	SANITARY NAPKIN DISPOSAL, SURFACE MOUNTED
10 220	MIRROR AS SCHEDULE
10 221	PROVIDE BACKING FOR FUTURE O.F.O.I. SOAP DISPENSER (SEE DETAIL 21/A10.10.1)
10 227	PAPER TOWEL DISPENSER, RECESSED
10 901	COAT HOOK
22 410	WALL MOUNTED WATER CLOSET (SEE DETAIL 25/A10.10.2)
22 420	URINAL
22 421	URINAL, ACCESSIBLE
22 426	ACCESSIBLE WATER CLOSET (SEE DETAIL 25/A10.10.2)
22 431	LAVATORY

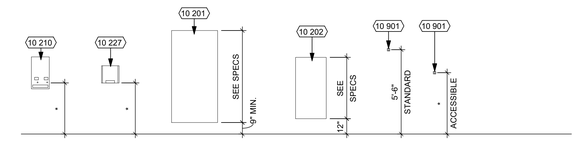
FLAT STRAP BACKING 3" = 1'-0" 22



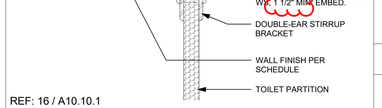
TYPICAL URINAL SCREEN 1/2" = 1'-0" 17

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 / A10.10.2
3. REFER TO KEYNOTE LIST FOR ADDITIONAL DETAILS.



REF: 16 / A10.10.1

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

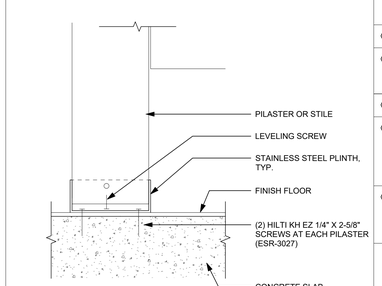
wood screws require 10d penetration to acheive their full values and not less than 6d. Coordinate with SOER to meet the requirements of NDS

TOILET FIXTURES AND ACCESSORIES SCHEDULE

3

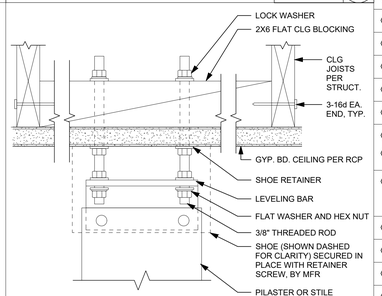
KEY	FIXTURE	DIMENSION REFERENCE	ADULT DIMENSION	2019 CBC REFERENCES: T: TABLE S: SECTION F: FIGURE	RECOMMENDED TOILET ACCESSORIES MANUFACTURER (BASIS OF DESIGN)
10 203	GRAB BAR	TOP OF GRIPPING SURFACE	33" - 36"	T: 11B-604.9	BOBRICK 5806 (STRAIGHT GRAB BARS)
10 201	TOILET PARTITION	TOE CLEARANCE	9" MIN.		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	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		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	T: 11B-604.9	SEE PLUMBING DRAWINGS
		SEAT HEIGHT (TOP OF SEAT)	17" - 19"	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.	S: 11B-606.2 S: 11B-606.3	SEE PLUMBING DRAWINGS
		SINK KNEE CLEARANCE	27" MIN. (29" AT APRON FOR LAVATORY)	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



REF: 16 / A10.10.1

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



REF: 17 / A10.10.1

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

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 12/23/2022	

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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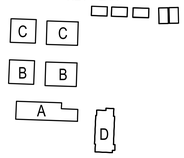
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

SPECIALTIES

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	A10.10.1
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

provide basis of soil bearing pressure.

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= 1945 psf
4. Wind 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 = II
   b.) Seismic Importance Factor, I_e= 1.25
   c.) Site Class = D
   d.) S_s = 1.644 S_1 = 0.621
   e.) S_{ds}= 1.315
   f.) Seismic Design Category, SDC = D
   g.) Seismic Force-Resisting System/s: Wood Shearwalls
   h.) Response Modification Coef., R = 6.5
   i.) Analysis Procedure = Static
   j.) Design Base Shear = NA (modernization)
   l.) Horiz. Structural Irregularities: none
   m.) Vert. Structural Irregularities: none
   n.) Location of "Base" = FF (t.o. slab)

list Fp force design criteria

mech unit anchorage design shall be per ASCE 7-10 Section 13.3.1 using Fp force.

calcs appears to use base shear from the building design for unit anchorage design. see calc page M1 for reference. it is attached here for quick reference

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.

3000 psi

HORIZONTAL EPOXIED CONCRETE ANCHORS
f'c = 2500psi (min)

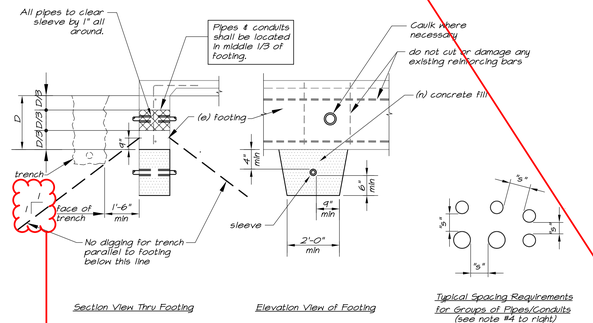
Simpson SET-3G — Carbon Steel Anchors, ICBO Report NO. 4057

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"	4550	420	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.
6. Anchors need not be tension tested unless testing is specifically noted on the drawings or required by DSA.



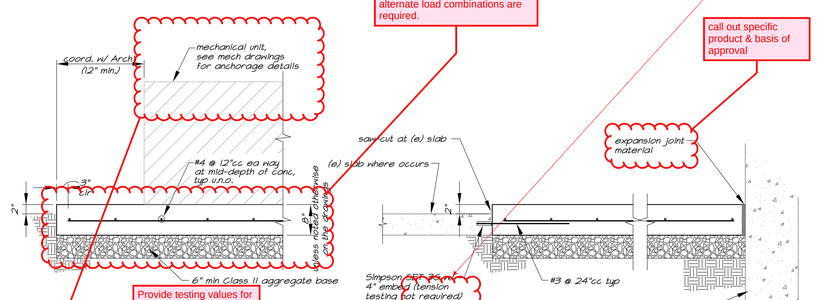
3 S1.0 Pipes & Conduits at Existing Footings 3/8"=1'-0"

verify if slope indicated meets the requirements of CBC § 1809A.14.

Per CBC section 1910A.5.1 test loads and acceptance criteria shall be shown on the construction documents.

Provide justification of new slab on grade sizes: verify sliding, overturning, SBP, reinforcing. If using the 1/3 allowable soil bearing increase please note the alternate load combinations are required.

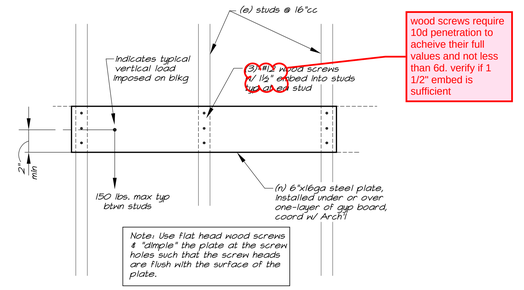
call out specific product & basis of approval



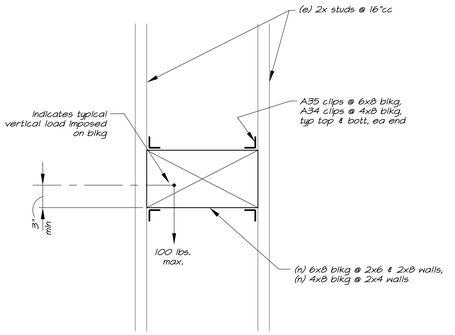
Provide testing values for post installed anchors listed on the plans

cals page M2 has incorrect application of the overstrength factor. The overstrength factor must be applied to the Fp force, prior to subtracting out the resisting dead load moment. When applied as done in this calculation, the overstrength factor is effectively being applied to both the seismic force and the dead load, which is incorrect. Revise accordingly.

1 S1.0 Typical Housekeeping Pad 3/8"=1'-0"



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



4 S1.0 Typical Blocking for Wall-Mounted Equipment 1½"=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; L_{ext}
	#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; L_{ext}
	#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; 6d_b; L_{ext}
	#6 thru #8	$6d_b$		

2 S1.0 Rebar Hooks & Bends 3/8"=1'-0"

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P WHITMORE No. C 30345 Ren.: 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER JOHN M MANDSAGER No.3824 Exp.09/30/24 STRUCTURAL STATE OF CALIFORNIA

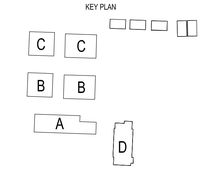
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REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS — DATE 12/23/2022
- (●) DSA PLAN CHECK
- ( ) DSA BACK CHECK
- ( ) BIDDING
- ( ) CONSTRUCTION

KEY PLAN



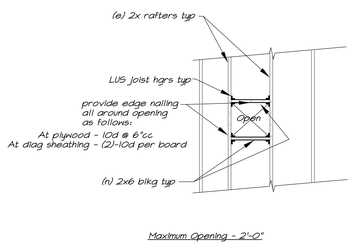
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

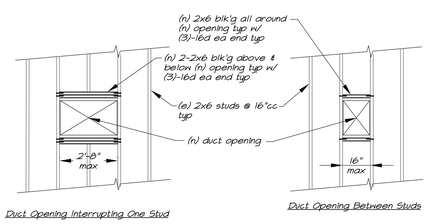
ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TYPICAL NOTES & DETAILS

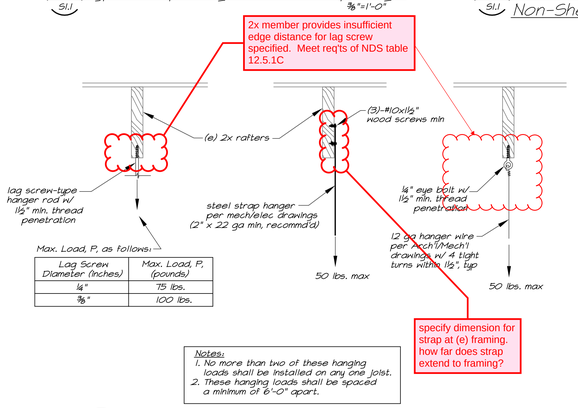
Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	S1.0
Drawn GSL	Checked JMM



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



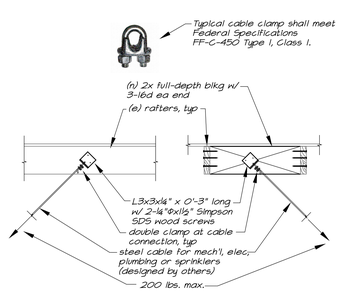
6 S1.1 New Duct Opening In Existing Non-Bearing Non-Shear Wall 3/8"=1'-0"



Lag Screw Diameter (inches)	Max. Load, P, (pounds)
¼"	75 lbs.
⅜"	100 lbs.

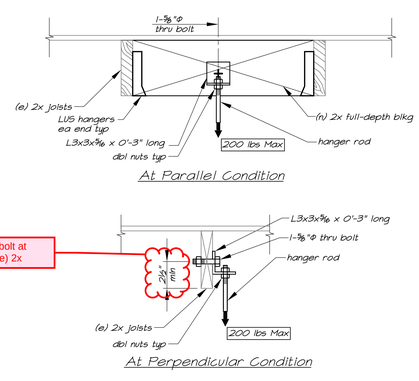
Notes:
1. No more than two of these hanging loads shall be installed on any one joist.
2. These hanging loads shall be spaced a minimum of 6'-0" apart.

1 S1.1 Typical Hanging Loads to 2x Connection 1½"=1'-0"

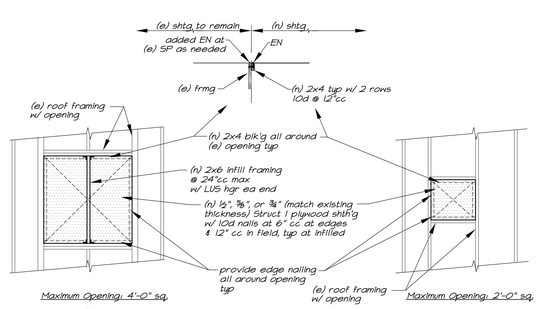


Note: Detail is similar for 12 gauge bracing wires. Provide 4 tight turns within 1½" at each end of wires, typical.

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



3 S1.1 Typical Hanger Rod Connection 1½"=1'-0"



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

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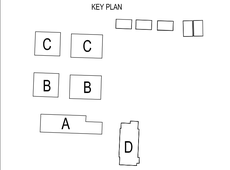
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	DATE
● DSA PLAN CHECK	12/23/2022
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KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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SAN JOSE, CA 95127

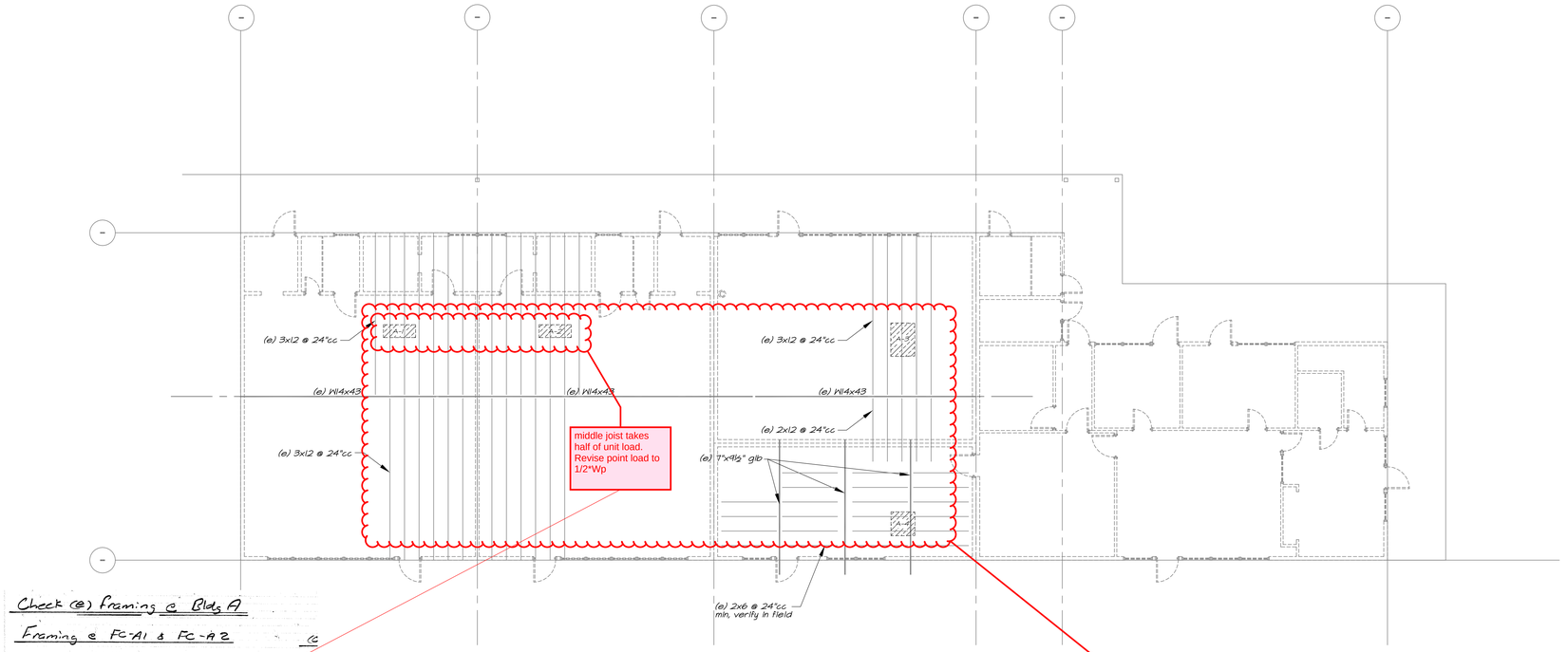
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
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TYPICAL DETAILS

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	S1.1
Drawn GSL	Checked JMM



Check (e) framing @ Bldg A

Framing @ FC-A1 & FC-A2

l = 22.25'

w = (16 + 20psf) x 2' = 32 plf DL

40 LL

P = 300 lbs = 100 #

@ 7' 3 rafters

(e) 3x12 @ 24 OK

@ roofi
plyw
frami
2x3 s
attac
accor
Susp
misc

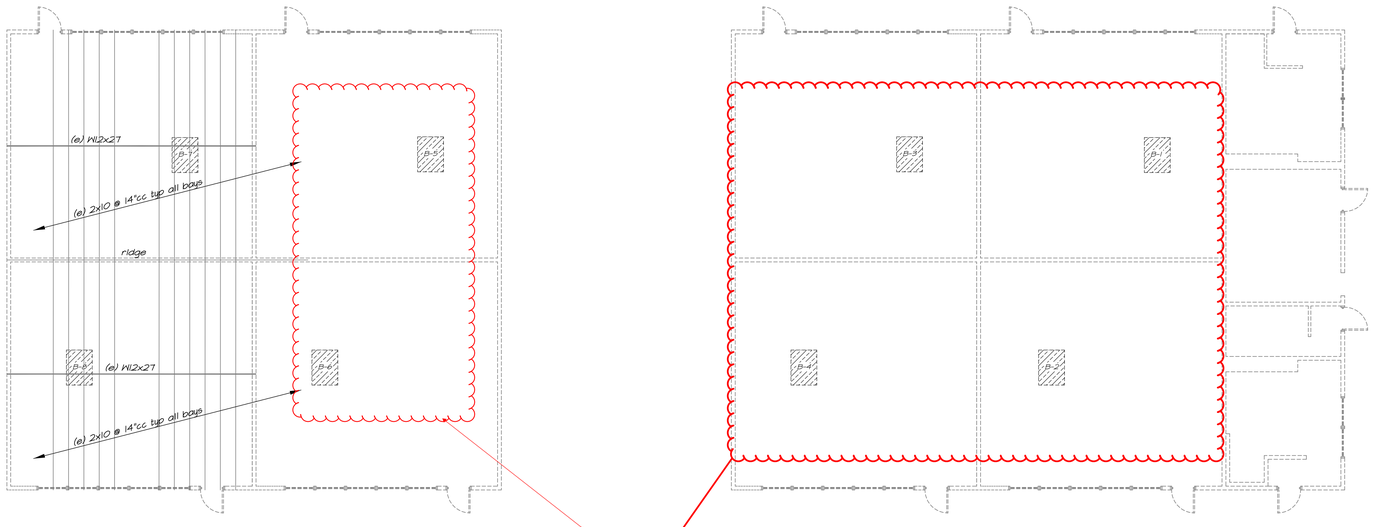
Partial Roof Framing Plan - Building A

(1 / 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 (2 / S1.1)
5. Existing roof openings to be infilled per (4 / S1.1)
6. 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	300 lbs.	
A-3	220 lbs.	
A-4	165 lbs.	
B-1 thru B-8	220 lbs.	



Typical Framing at all Classrooms

Partial Roof Framing Plan - Buildings B & C

(2 / S2.1) 1/8"=1'-0"

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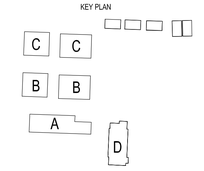
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	DATE
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○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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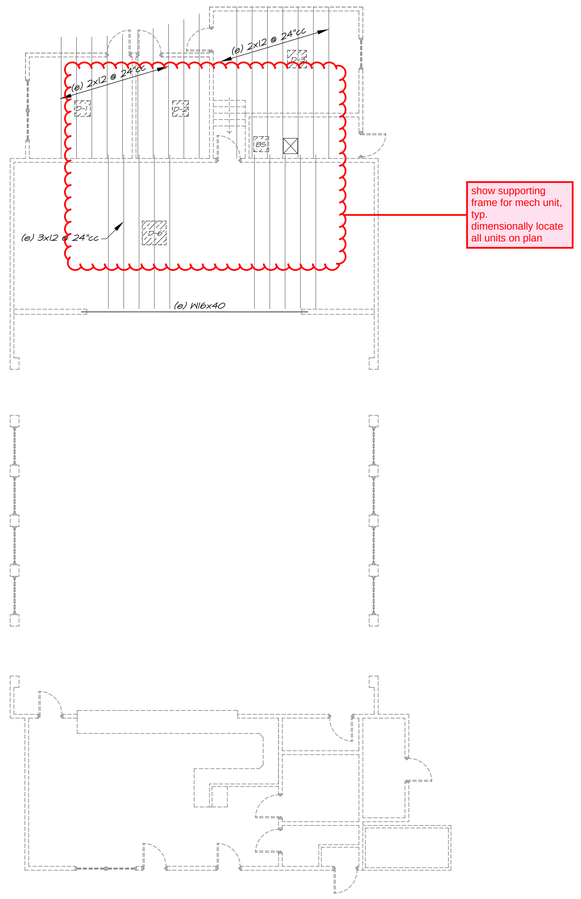
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

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

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	S2.1
Drawn / Checked	
GSL / JMM	



show supporting frame for mech unit, typ. dimensionally locate all units on plan

Partial Roof Framing Plan - Building D

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. 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
D-1 & D-2	65 lbs.	
D-3	100 lbs.	
D-6	100 lbs.	
BS	100 lbs.	

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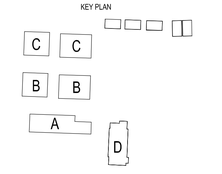
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○	CONSTRUCTION

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ADELANTE ACADEMY II

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PARTIAL ROOF FRAMING PLAN - BUILDING D

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
01-120630	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.

Clarify if the project will include application for funding through the School Energy Efficiency Stimulus (SEES) Program. If yes, CO2 monitoring devices will be required in all classrooms. Refer to DSA Bulletin BU 21-01 for more information.

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 10x10-4 120, FD	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
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.

O. DUCT INSULATION BLANKET (INTERIOR APPLICATIONS):
- O.1. INSULATION: ASTM C553; FLEXIBLE, NONCOMBUSTIBLE BLANKET. 'K' ('KSI') VALUE: 0.31 AT 75 DEGREES F (0.045 AT 24 DEGREES C), WHEN TESTED IN ACCORDANCE WITH ASTM C 518. MAXIMUM SERVICE TEMPERATURE: 250 DEGREES F (121 DEGREES C). MAXIMUM MOISTURE ABSORPTION: 0.20 PERCENT BY VOLUME. DUCT APPLICATION: 2" THICK, 3/4 LB. DENSITY.
- O.2. VAPOR BARRIER JACKET: KRAFT PAPER WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM. MOISTURE VAPOR TRANSMISSION: ASTM E 96; 0.02 PERM. SECURE WITH PRESSURE SENSITIVE TAPE.

P. DUCT INSULATION BOARD (EXTERIOR APPLICATIONS):
- P.1. INSULATION: ASTM C 612; RIGID, NONCOMBUSTIBLE BLANKET. 'K' ('KSI') VALUE: 0.24 AT 75 DEGREES F (0.036 AT 24 DEGREES C), WHEN TESTED IN ACCORDANCE WITH ASTM C 518. MAXIMUM SERVICE TEMPERATURE: 250 DEGREES F (121 DEGREES C). MAXIMUM MOISTURE ABSORPTION: 0.20 PERCENT BY VOLUME. DENSITY: 3.0 LB/CU FT (48 KG/CU M).
- P.2. VAPOR BARRIER JACKET: KRAFT PAPER WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM. MOISTURE VAPOR TRANSMISSION: ASTM E 96; 0.04 PERM. SECURE WITH PRESSURE SENSITIVE TAPE.
- P.3. ALUMINUM JACKET: ASTM B 209 (ASTM B 209M). THICKNESS: 0.016 INCH (0.40 MM) SHEET. FINISH: SMOOTH. JOINING: LONGITUDINAL SLIP JOINTS AND 2 INCH (50 MM) LAPS. FITTINGS: 0.016 INCH (0.4 MM) THICK DIE SHAPED FITTING COVERS WITH FACTORY ATTACHED PROTECTIVE LINER. METAL JACKET BANDS: 3/8 INCH (10 MM) WIDE; 0.015 INCH (0.38 MM) THICK ALUMINUM.

Q. DUCT LINER:
- Q.1. INSULATION: INCOMBUSTIBLE GLASS FIBER COMPLYING WITH ASTM C 1071; FLEXIBLE BLANKET; WITH ACRYLIC POLYMER SHOWN TO BE FUNGUS AND BACTERIA RESISTANT BY TESTING TO ASTM G 21 IMPREGNATED SURFACE AND EDGE COAT. APPARENT THERMAL CONDUCTIVITY: MAXIMUM OF 0.31 AT 75 DEGREES F (0.045 AT 24 DEGREES C). DUCT APPLICATION: 1–1/2" THICK, 1–1/2 POUND DENSITY. SERVICE TEMPERATURE: UP TO 250 DEGREES F (121 DEGREES C). RATED VELOCITY ON COATED AIR SIDE FOR AIR EROSION: 5,000 FPM (25.4 M/S), MINIMUM.
- Q.2. LINER FASTENERS: GALVANIZED STEEL, SHEET METAL WELD PINS OR CLINCH PINS AND WASHERS.

R. INSULATED FLEXIBLE DUCTS
- R.1. FLEXIBLE DUCTS SHALL BE U.L. LISTED AND SHALL COMPLY WITH UMC STANDARD 6–1.
- R.2. THE MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 5 FEET PER CMC SECTION 603.5. DUCTWORK SHALL BE EXTENDED TO FULL LENGTH WHENEVER POSSIBLE WITHOUT SEVERE BENDS OR KINKS. BENDS SHALL BE MADE TO MAINTAIN R/W EQUAL TO 1.5.
- R.3. BLACK POLYMER FILM SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE; FIBERGLASS INSULATION; POLYETHYLENE VAPOR BARRIER FILM.
  - R.3.1. PRESSURE RATING: 4 INCHES WG POSITIVE PRESSURE AND 1 INCH NEGATIVE PRESSURE.
  - R.3.2. INSULATION SHALL BE 1–1/2 INCH THICK FIBERGLASS.
  - R.3.3. MAXIMUM VELOCITY: 4000 FPM (20.3 M/SEC).
  - R.3.4. TEMPERATURE RANGE: –20 DEGREES F TO 175 DEGREES F (–28 DEGREES C TO 79 DEGREES C).

S. SEAL ALL STANDING SEAMS AND TRANSVERSE JOINTS IN ALL SHEETMETAL DUCTWORK WITH HARDCAST IRON GRIP PREMIUM FLEXIBLE WATER BASED DUCT SEALANT.

T. DURING CONSTRUCTION PROVIDE TEMPORARY CLOSURES OF METAL OR TAPED POLYETHYLENE ON OPEN DUCTWORK TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM.

U. ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS WITH ACCESSIBLE LOCKING TYPE QUADRANT. WHERE DAMPER IS INACCESSIBLE, PROVIDE YOUNG REGULATOR MODEL 270–301 CABLE KIT WITH EITHER 830A–CC (RECTANGULAR) OR 5020–CC (ROUND) DAMPER.

V. PERFORM TOTAL SYSTEMS BALANCE IN ACCORDANCE WITH AABC, ASHRAE STD 111, OR NEBB PROCEDURAL STANDARDS FOR TESTING, BALANCING AND ADJUSTING OF ENVIRONMENTAL SYSTEMS.

W. THE INSTALLATION OF DUCT SMOKE DETECTORS FOR AUTOMATIC SHUTDOWN OF AIR MOVING SYSTEMS AS REQUIRED BY CMC SECTION 608 OR AS REQUIRED FOR THE OPERATION OF FIRE SMOKE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT'S STANDARD "FIRE PROTECTION DESIGN GUIDELINES FOR SMOKE CONTROL WITHIN BUILDINGS". WHERE AIR DUCT SMOKE DETECTORS SERVING AIR–MOVING SYSTEMS ARE INSTALLED WITHIN CONDCEALED SPACES, AND/OR DROP CEILING AREAS, THE DETECOR SHALL BE PROVIDED WITH THE UNIT SERVED. SAID REMOTE ALARM LED DEVICE SHALL BE LABELED TO CLEARLY IDENTIFY THE UNIT SERVED (AC–1, ETC.). WHERE AIR DUCT SMOKE DETECTORS SERVING AIR–MOVING SYSTEMS ARE INSTALLED IN CONCEALED SPACES, AND/OR DROP CEILING AREAS MORE THAN 10 FEET ABOVE THE FINISHED FLOOR, THE DETECTOR SHALL BE PROVIDED WITH A REMOTE TEST AND RESET SWITCH, SAID REMOTE TEST AND RESET SWITCH SHALL BE ATTACHED TO AN ADJACENT WALL OR STRUCTURAL COLUMN AT A MAXIMUM HEIGHT OF 6 FEET ABOVE FINISHED FLOOR. PRIOR TO MECHANICAL PERMIT FINAL, A SMOKE DETECTOR SHUT–OFF TEST WILL BE REQUIRED.

MECHANICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
M0.01	MECHANICAL LEGEND & NOTES
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M0.03	MECHANICAL DETAILS
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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
M5.10	MECHANICAL CONTROLS

DSA STAMP

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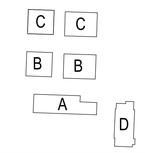
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

MECHANICAL LEGEND AND NOTES

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	M0.01
Drawn / Checked	
KT / 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. REFER TO THE MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN, AND FIRE DAMPER (IF REQUIRED).
B	CEILING RETURN	EGGCRATE GRILLE WITH 1/2"x1/2"x1/2" GRID, FRAME FOR LAY-IN T-BAR MOUNTING. TITUS MODEL 50R. REFER TO THE MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN, AND FIRE DAMPER (IF REQUIRED).
C	CEILING SUPPLY	STEEL LOUVERED FACE DIFFUSER WITH FRAME FOR SURFACE MOUNTING. TITUS MODEL MCD. REFER TO THE MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN, AND FIRE DAMPER (IF REQUIRED).
D	CEILING SUPPLY	EGGCRATE GRILLE WITH 1/2"x1/2"x1/2" GRID, FRAME FOR SURFACE MOUNTING. TITUS MODEL 50R. REFER TO THE MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN, AND FIRE DAMPER (IF REQUIRED).
F	DUCT MOUNT SUPPLY	DOUBLE DEFLECTION, INDIVIDUALLY ADJUSTABLE BLADES WITH 3/4" SPACING FOR DUCT MOUNTING, AIR SCOOP DAMPER EXTRACTOR. TITUS MODEL S300FL.
I	SIDEWALL RETURN/ EXHAUST	EGGCRATE GRILLE WITH 1/2"x1/2"x1/2" GRID, FRAME FOR SURFACE MOUNTING. TITUS MODEL 50R. REFER TO THE MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN, AND FIRE DAMPER (IF REQUIRED).

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	A–1	CEILING	208	1	6.5	15	–	1,520	0.9	–	–	48,000	32,700	–	–	94	DX	54,000	–	29	MERV–13	HP–A–1	216	DAIKIN	FXTQ48	PROVIDE BACnet CARD. 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	A–2	CEILING	208	1	6.5	15	–	1,520	0.9	–	–	48,000	32,700	–	–	94	DX	54,000	–	29	MERV–13	HP–A–1	216	DAIKIN	FXTQ48	PROVIDE BACnet CARD. 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	A–3	CEILING	208	1	3.4	15	–	1,624	0.56	–	–	54,000	40,300	–	–	94	DX	60,000	–	29	MERV–13	HP–A–1	161	DAIKIN	FXMQ54	PROVIDE BACnet CARD. 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	A–4	CEILING	208	1	1.8	15	–	688	0.8	–	–	24,000	18,800	–	–	94	DX	27,000	–	29	MERV–13	HP–A–1	124	DAIKIN	FXMQ24	PROVIDE BACnet CARD. 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	A–5	FLOOR	208	1	6.5	15	–	1,520	0.9	–	–	48,000	32,700	–	–	94	DX	54,000	–	29	MERV–13	HP–A–1	216	DAIKIN	FXTQ48	PROVIDE BACnet CARD. 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	B–1 TO B–8	CEILING	208	1	2.9	15	–	1,130	0.8	–	–	36,000	28,800	–	–	94	DX	40,000	–	29	MERV–13	HP–B–1	160	DAIKIN	FXMQ36	PROVIDE BACnet CARD. 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	C–1 TO C–8	CEILING	208	1	2.9	15	–	1,130	0.8	–	–	36,000	28,800	–	–	94	DX	40,000	–	29	MERV–13	HP–C–1	160	DAIKIN	FXMQ36	PROVIDE BACnet CARD. 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	D–1 TO D–2	CEILING	208	1	0.3	15	–	307	–	–	–	7,500	5,500	–	–	94	DX	8,500	–	29	N/A	HP–D–1	41	DAIKIN	FXZQ07	PROVIDE BACnet CARD. 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	D–3	CEILING	208	1	1.4	15	–	450	0.4	–	–	12,000	9,700	–	–	94	DX	13,500	–	29	MERV–13	HP–D–1	75	DAIKIN	FXMQ12	PROVIDE BACnet CARD. 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	D–4 TO D–5	FLOOR	208	1	8.6	15	–	1,800	0.9	–	–	54,000	39,300	–	–	94	DX	60,000	–	29	MERV–13	HP–D–1	230	DAIKIN	FXTQ54	INSTALL DUCT SMOKE DETECTOR IN SUPPLY AIR PLENUM TO SHUT–OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH THE 2016 CALIFORNIA MECHANICAL CODE, SECTION 609. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR. PROVIDE BACnet CARD. 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	D–6	CEILING	208	1	0.7	15	–	777	–	–	–	23,000	20,000	–	–	94	DX	27,000	–	29	MERV–13	HP–D–1	62	DAIKIN	FXFQ24	PROVIDE BACnet CARD. COORDINATE WITH CONTROL CONTRACTOR FOR CONTROL SCOPE. VRF MAIN CONTROL PANEL LOCATION TBD. 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	CEILING	208	1	0.4	15	R–410A	144,000	–	HP–A–1	60	DAIKIN	BS4Q54TAVJ	SERVICES FROM HP–A–1, TOTAL 2. PROVIDE LONG REFRIGERANT LINE KITS BETWEEN BRANCH SELECTORS AND SHORT REFRIGERANT LINE KITS BETWEEN BRANCH SELECTOR BOXES AND FAN COILS.
BS	A–2	CEILING	208	1	0.4	15	R–410A	144,000	–	HP–A–1	60	DAIKIN	BS4Q54TAVJ	SERVICES FROM HP–A–1, TOTAL 3. PROVIDE LONG REFRIGERANT LINE KITS BETWEEN BRANCH SELECTORS AND SHORT REFRIGERANT LINE KITS BETWEEN BRANCH SELECTOR BOXES AND FAN COILS.
BS	B–1 TO B–2	CEILING	208	1	0.4	15	R–410A	144,000	–	HP–B–1	60	DAIKIN	BS4Q54TAVJ	SERVICES HP–B–1. PROVIDE LONG REFRIGERANT LINE KITS BETWEEN BRANCH SELECTORS AND LONG REFRIGERANT LINE KITS BETWEEN BRANCH SELECTOR BOXES AND FAN COILS.
BS	C–1 TO C–2	CEILING	208	1	0.4	15	R–410A	144,000	–	HP–C–1	60	DAIKIN	BS4Q54TAVJ	SERVICES HP–C–1. PROVIDE LONG REFRIGERANT LINE KITS BETWEEN BRANCH SELECTORS AND LONG REFRIGERANT LINE KITS BETWEEN BRANCH SELECTOR BOXES AND FAN COILS.
BS	D–1	CEILING	208	1	0.6	15	R–410A	230,000	–	HP–D–1	88	DAIKIN	BSF60S4TVJ	SERVICES HP–D–1. PROVIDE LONG REFRIGERANT LINE KITS BETWEEN BRANCH SELECTORS AND LONG REFRIGERANT LINE KITS BETWEEN BRANCH SELECTOR BOXES AND FAN COILS.

INDOOR UNIT (SPLIT DX) SCHEDULE

TYPE	MARK	NOM. TONS	IDU TYPE	ELECTRICAL VOLTS	PHASE	RLA	MCA	MOCP	SUPPLY FAN MOTOR BHP	DRIVE	CFM	E.S.P. (IN WC)	OSA MIN CFM	COOLING (DX) TOTAL CAP. (MBH)	SENS. CAP. (MBH)	E.A. DB/WB (°F)	HEATING (DX) TOTAL CAP. (MBH)	AUX. HEAT (KW)	FILTER TYPE	OPER. WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER
IDU	B–1	0.75	WALL	208	1	3.57	8	–	–	DIRECT	381	–	SEE SCHED.	9000	8100	80/67	–	–	MERV–13	30	DAIKIN	FTXS09LVJU
IDU	C–1	0.75	WALL	208	1	3.57	8	–	–	DIRECT	381	–	SEE SCHED.	9000	8100	80/67	–	–	MERV–13	30	DAIKIN	FTXS09LVJU

NOTES:
1. SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH.
2. SEE ELECTRICAL DRAWINGS FOR CONVENIENCE OUTLET.

OUTSIDE AIR SCHEDULE

SYSTEM NAME	MIN. OSA CFM	MAX. OSA CFM	DEMAND CONTROL VENT. (Y/N)
FC–A1	480	–	N
FC–A2	480	–	N
FC–A3	400	–	N
FC–A4	220	–	N
FC–A5	235	–	N
FC–B1	370	–	N
FC–B2	370	–	N
FC–B3	370	–	N
FC–B4	370	–	N
FC–B5	370	–	N
FC–B6	370	–	N
FC–B7	370	–	N
FC–B8	370	–	N
FC–C1	370	–	N
FC–C2	370	–	N
FC–C3	370	–	N
FC–C4	370	–	N
FC–C5	370	–	N
FC–C6	370	–	N
FC–C7	370	–	N
FC–C8	370	–	N
FC–D1	30	–	N
FC–D2	25	–	N
FC–D3	85	–	N
FC–D4	625	–	N
FC–D5	625	–	N
FC–D6	480	–	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 (SPLIT DX) SCHEDULE

TYPE	MARK	NOM. TONS	ELECTRICAL VOLTS	PHASE	RLA	MCA	MOCP	COOLING (DX) SEER/ EER	TOTAL CAP. (MBH)	SENS. CAP. (MBH)	AMBIENT DB (°F)	HEATING (DX) HSPF/ COP	TOTAL CAP. (MBH)	AMBIENT DB (°F)	OPER. WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER
ODU	B–1	0.75	208	1	3.57	8	–	24.5/ 15.3	9000	8100	95	–/ –	–	–	85	DAIKIN	RXS09LVJU
ODU	C–1	0.75	208	1	3.57	8	–	24.5/ 15.3	9000	8100	95	–/ –	–	–	85	DAIKIN	RXS09LVJU

NOTES:
1. SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH.
2. SEE ELECTRICAL DRAWINGS FOR CONVENIENCE OUTLET.

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	A–1	VRV	FLOOR	208	3	73.7	80	–/ 10.80	–	R–410A	228,000	256,000	–	1,149	DAIKIN	REYQ240	PROVIDE CONDENSER COIL GUARD. PROVIDE LONG REFRIGERANT LINE KIT.
HP	B–1	VRV	FLOOR	208	3	95.6	100	–/ 11.00	–	R–410A	274,000	294,000	–	1885	DAIKIN	REYQ288	PROVIDE CONDENSER COIL GUARD. PROVIDE LONG REFRIGERANT LINE KIT.
HP	C–1	VRV	FLOOR	208	3	95.6	100	–/ 11.00	–	R–410A	274,000	294,000	–	1885	DAIKIN	REYQ288	PROVIDE CONDENSER COIL GUARD. PROVIDE LONG REFRIGERANT LINE KIT.
HP	D–1	VRV	FLOOR	208	3	54.9	60	–/ 11.10	–	R–410A	160,000	180,000	FC–3–5	945	DAIKIN	REYQ168	PROVIDE CONDENSER COIL GUARD. PROVIDE LONG REFRIGERANT LINE KIT.

EXHAUST 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	A–1	CENTRIFUGAL	CEILING	–	81	115	1	125	0.25	DIRECT	691	0.4	SEE PLAN	INTERLOCK W/FAN COIL	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	A–2	CENTRIFUGAL	CEILING	–	81	115	1	125	0.25	DIRECT	691	0.4	SEE PLAN	INTERLOCK W/FAN COIL	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	A–3	CENTRIFUGAL	CEILING	–	18	115	1	100	0.25	DIRECT	1053	0.5	SEE PLAN	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	A–4	CENTRIFUGAL	CEILING	–	14	115	1	75	0.25	DIRECT	876	0.4	SEE PLAN	LIGHTS	20	GREENHECK	SP–A90	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	A–5	CENTRIFUGAL	CEILING	–	18	115	1	100	0.25	DIRECT	1053	0.5	SEE PLAN	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.
REF	B–1	CENTRIFUGAL	ROOF	1/4	–	115	1	425	0.25	DIRECT	833	2.7	SEE PLAN	LIGHTS	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	1/15	–	115	1	150	0.25	DIRECT	1257	2.5	SEE PLAN	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–3	CENTRIFUGAL	ROOF	1/4	–	115	1	425	0.25	DIRECT	833	2.7	SEE PLAN	LIGHTS	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	1/4	–	115	1	425	0.25	DIRECT	833	2.7	SEE PLAN	LIGHTS	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–3	CENTRIFUGAL	ROOF	1/4	–	115	1	425	0.25	DIRECT	833	2.7	SEE PLAN	LIGHTS	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	D–1	CENTRIFUGAL	CEILING	3/4	–	115	1	2,500	0.5	DIRECT	1068	10.2	SEE PLAN	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 LOCATION, 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

STUDIO W ARCHITECTS

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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 EVAN WAN HIN CHEUNG M 39462 REN. 6–30–23 MECHANICAL STATE OF CALIFORNIA

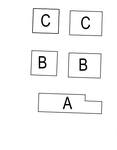
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REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS — DATE
- ● DSA PLAN CHECK 12/23/2022
- ○ DSA BACK CHECK
- ○ BIDDING
- ○ CONSTRUCTION

KEY PLAN



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

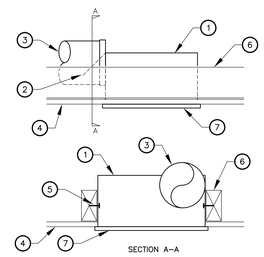
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

MECHANICAL SCHEDULES

Date 12/23/2022	Project Number 22025
Application Number 02-120630	Drawing Number M0.02
Drawn KT	Checked CD

1. CEILING EXHAUST FAN, SEE SCHEDULE
2. BACKDRAFT DAMPER FURNISHED WITH FAN
3. DUCTWORK, SEE PLAN FOR SIZE AND ROUTING
4. FINISHED GYP BOARD CEILING
5. #10 X 1-1/2" WOOD SCREWS, MIN (2) PER SIDE
6. 2X BLOCKING AROUND FAN, ATTACH TO CEILING FRAMING WITH SIMPSON A34, TYP.
7. CEILING GRILLE FURNISHED WITH FAN



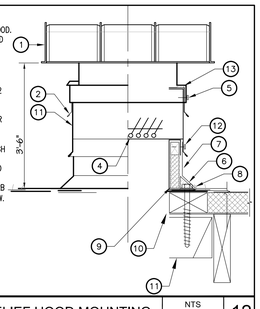
MEXE001B

EXHAUST FAN - CEILING MOUNTING (CEF)

NTS | 11

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. SEE STRUCTURAL ATTACHMENT x/Sx.x.

(BY GENERAL CONTRACTOR)



provide

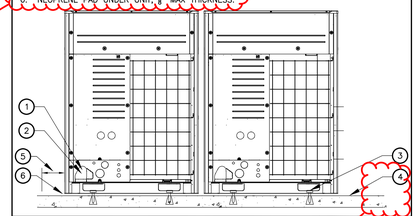
MEQSA10E

INTAKE/RELIEF HOOD MOUNTING

NTS | 12

1. ACCESS TO REFRIGERANT SUCTION LINE CONNECTION.
2. ACCESS TO REFRIGERANT DISCHARGE LINE CONNECTION.
3. 1/2"ø SIMPSON STRONG BOLT STAINLESS STEEL EXPANSION ANCHORS, 4" MIN EMBEDMENT. (TYP. 4 PER LOCATION)
4. (N) CONCRETE PAD PER STRUCTURAL DRAWINGS.
5. MIN. 18" ALL AROUND UNIT.
6. NEOPRENE PAD UNDER UNIT, 3" MAX THICKNESS.

bolt 2 per S1.0



Update calculation and seismic criteria to account for neoprene pad. use Fp with correct ap and rp value

Unit is isolated - Please verify applicability of footnote b in ASCE 7-16 Table 13.6-1. Revise AC unit anchorage to account for 2*Fp loading, or clearly demonstrate the requirements for 1*Fp are met.

MEQSA02B

HEAT PUMP UNIT MOUNTING DETAIL

NTS | 13

see 1/S1.0 for comment on conc pad

insufficient edge distance with this anchor and 4x 6 blocking. Increase blocking size to achieve min edge distance requirements per Ch 12 of NDS NDS Table 12.5.1C

DESIGNED BY | DATE / / | PAGE

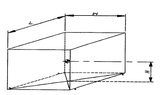
(916) 941-2425
fax (916) 941-2429
STRUCTURAL ENGINEERS INC

Wind & Seismic Anchorage of Ground Mounted Units

Unit Description/Type: Heat Pumps

Seismic Design Basis:
The design basis of these calculations is ASCE 7-16, Chapter 15, *Seismic Design Requirements for Nonbuilding Structures. According to Section 15.4.1, the design shall* comply with Sections 15.5 and 15.6 with minimum seismic forces not less than Section 12.8.

Wind Design Basis:
The design basis of these calculations is ASCE 7-16, Chapter 29, *Wind Loads on Building Appurtenances and Other Structures: Main Wind Force Resisting System (Directional Procedure).*



Equipment Information

Width, x (in.) =	30.5 inches	Weight, W_p (lbs.) =	2200 lbs.
Length, y (in.) =	95.0 inches		
Height, z (in.) =	67.0 inches	d_{min}= lesser of x or y	
H to cg (in.) =	34.0 inches	d_{min}=	30.5 inches
Total # of Anchorage Points, N =		8	
Total # of Anchors Effective in Resisting Tension (relative to d_{min}), N_t=		4	

Determine Seismic Load (USD)

Occupancy Category =	III	S_{DS} =	1.548 g
Seismic Design Category =	D	S_1 =	0.708 g
Importance Factor =	1.25	R (Table 15.4-2)=	3.00

(Eqn. 12.8-1) $V = C_sW$ (Eqn. 12.8-2) $C_s = S_{DS}/(R/I)$ = 0.6417

(Eqn. 15.4-1) C_s(min) = 0.0847
or, C_s(min) = 0.0300
(Eqn. 15.4-2) or, Cs(min) = 0.2453
governing Cs= 0.6417

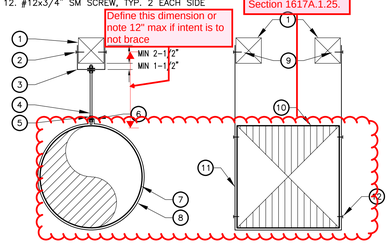
E_h= Wp x Cs= 1412 lbs (USD)
Ev=0.2SDSWp= 678 lbs (USD)

Determine Wind Load (USD) per ASCE 7-16, Section 29.4, *Design Wind Loads: Other Structures*

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"ø x1-1/4" 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

Ducts will not require bracing if they satisfy all requirements in the 2019 CBC, Section 1617A.1.25.

Define this dimension or note 12" max if intent is to not brace



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.

fix

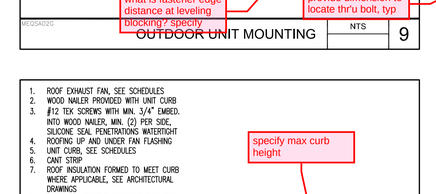
MEQSA10A

TYPICAL DUCT SUPPORT DETAIL

NTS | 8

specify embedment depth for 3/8" lag screw. Lag screws require 8d penetration to achieve their full values.

1. OUTDOOR CONDENSING UNIT, SEE SCHEDULE
2. PREFAB GALV. SHEET METAL CURB, 8" HIGH x 24" LONG WITH WOOD NAILER AND COUNTERFLASHING, TYP. 2
3. 3/8"ø LAG SCREW INTO WOOD NAILER, SILICONE SEAL PENETRATION WATERTIGHT
4. CANT STRIP, TYP.
5. PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN. 2" HIGH. TOP FLAT/LEVEL
6. 4X6 BLOCKING BETWEEN JOISTS, SECURE TO ROOF JOISTS W/ 4.5" SCLIP EACH SIDE & EACH END. 3/8"ø LAG SCREWS, (2) PER END, SEE AT CURBS



what is fastener edge distance at leveling blocking? specify

provide dimension to locate thr'u bolt, typ

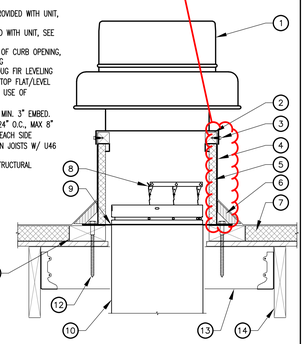
MEQSA02D

OUTDOOR UNIT MOUNTING

NTS | 9

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 LIP 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. 1/2"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

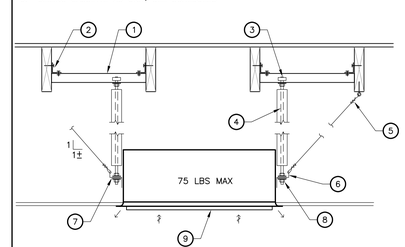
specify max curb height



ROOFTOP EXHAUST FAN (WOOD)

NTS | 10

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



SEISMIC BRACING PLAN

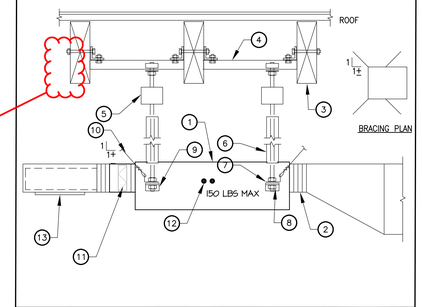
What is max weight of ducts?
SEOR to verify (e) framing is sufficient to support point loads from (n) duct loading.

MEQSA03C

CASSETTE INDOOR UNIT MOUNTING

DETAIL IS SCALE? | 5

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 PC3ON 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.



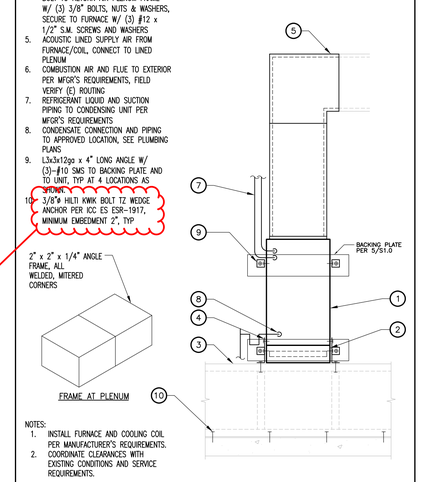
MEQSA04B

FAN COIL MOUNTING DETAIL

NTS | 6

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 WEDGE ANCHOR PER ICC ES ESR-1917, MINIMUM EMBEDMENT 2", TYP

Anchor has been discontinued by manufacturer. Revise to Kwik Bolt TZ-2 and update basis of approval based on new report



2" x 2" x 1/4" ANGLE FRAME, ALL WELDED, MITERED CORNERS

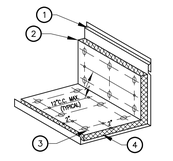
FRAME AT PLENUM

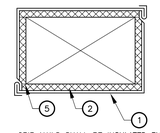
NOTES:
1. INSTALL FURNACE AND COOLING COIL PER MANUFACTURER'S REQUIREMENTS.
2. COORDINATE CLEARANCES WITH EXISTING CONDITIONS AND SERVICE REQUIREMENTS.

FAN COIL MOUNTING

NTS | 7

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.

MDUSA02A

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.

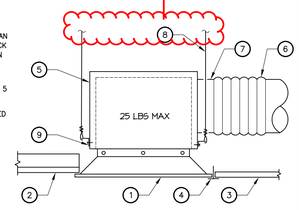
MDUSC07A

DUCT CONSTRUCTION STANDARDS

NTS | 2

1. GRILLE/DIFFUSER
2. HARD CEILING
3. T-BAR CEILING
4. ATTACH DIFFUSER TO T-BAR WITH #10 SELF-TAPPING SM SCREWS, MIN. 2 PER SIDE
5. LINED SM PLENUM SIZED 2" LARGER THAN DIFFUSER/GRILLE NECK AND 2" LARGER THAN DUCT CONNECTION
6. ACOUSTICAL FLEX DUCT, MIN. 150% RADIUS ELBOW, MAX. 5 FT LENGTH
7. SPIN-IN COLLAR
8. 12 GA. WIRE ATTACHED TO STRUCTURE PER 1/S1.1
9. 2"x2"x16 GA. ANGLE, SECURE TO PLENUM BOX WITH #12 SELF TAPPING SM SCREWS

provide top connection to structural framing



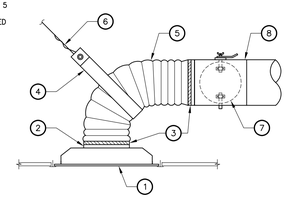
MDUEQ01C

DIFFUSER/GRILLE INSTALLATION

NTS | 3

1. GRILLE/DIFFUSER
2. ADAPTER WHERE REQUIRED.
3. STEEL TOOKING 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 2/S1.1
7. VOLUME DAMPER
8. SHEET METAL DUCTWORK

specify gage



MDUEQ01D

DIFFUSER/GRILLE INSTALLATION

NTS | 4

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Roseville, CA 95678
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www.lpengineers.com
Job #: 22-2198

ARCHITECT	ENGINEER
LICENSED ARCHITECT BETHA P WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER EVAN MAI HIN CHOW No. M 39462 REN. 6-30-23 MECHANICAL STATE OF CALIFORNIA

GENERAL NOTES

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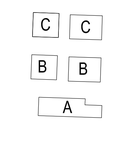
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

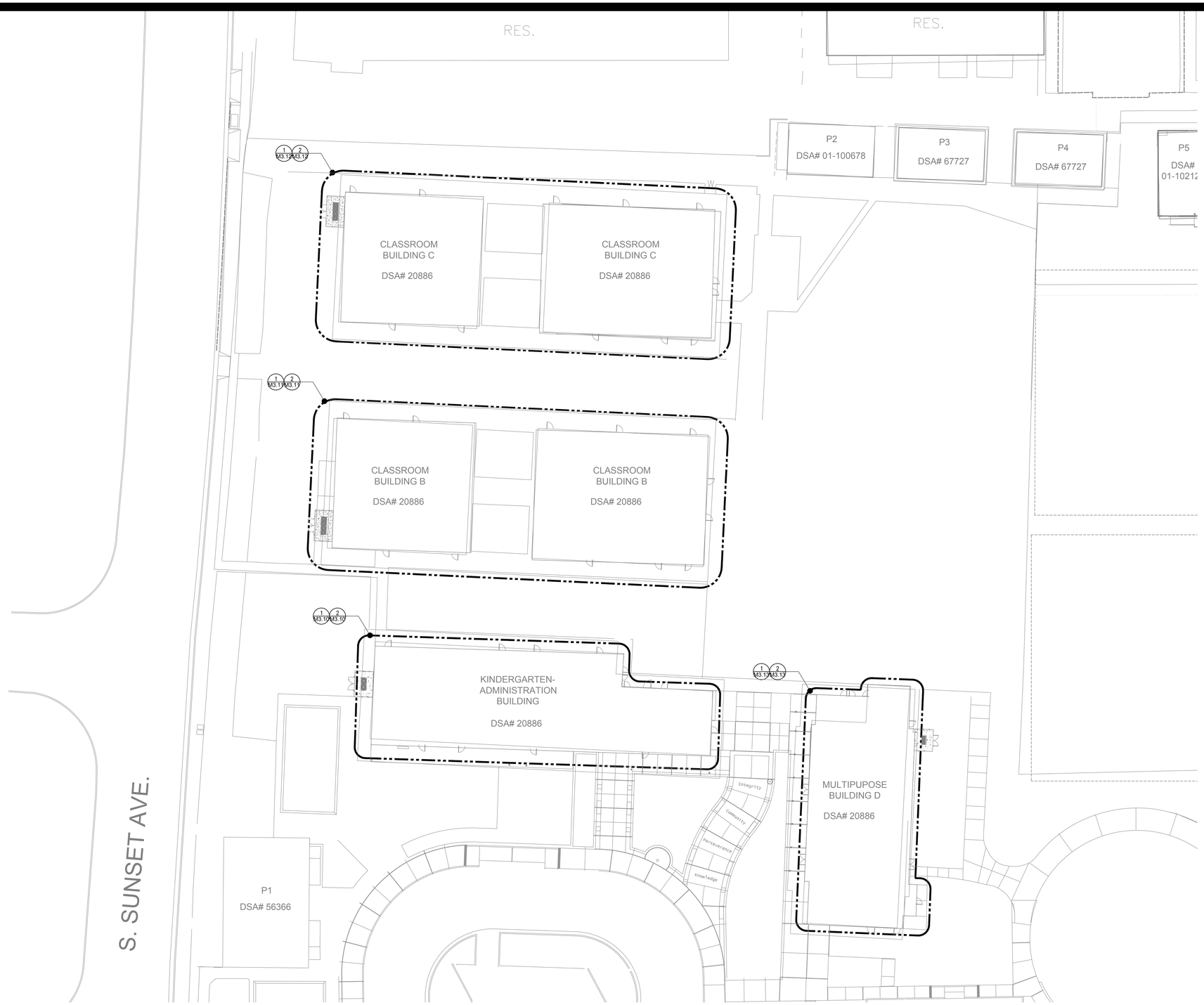
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

MECHANICAL DETAILS

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	M0.03
Drawn / Checked	
KT / CD	



MECHANICAL SITE PLAN | **1** 1" = 20'

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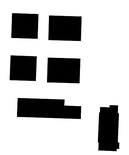
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

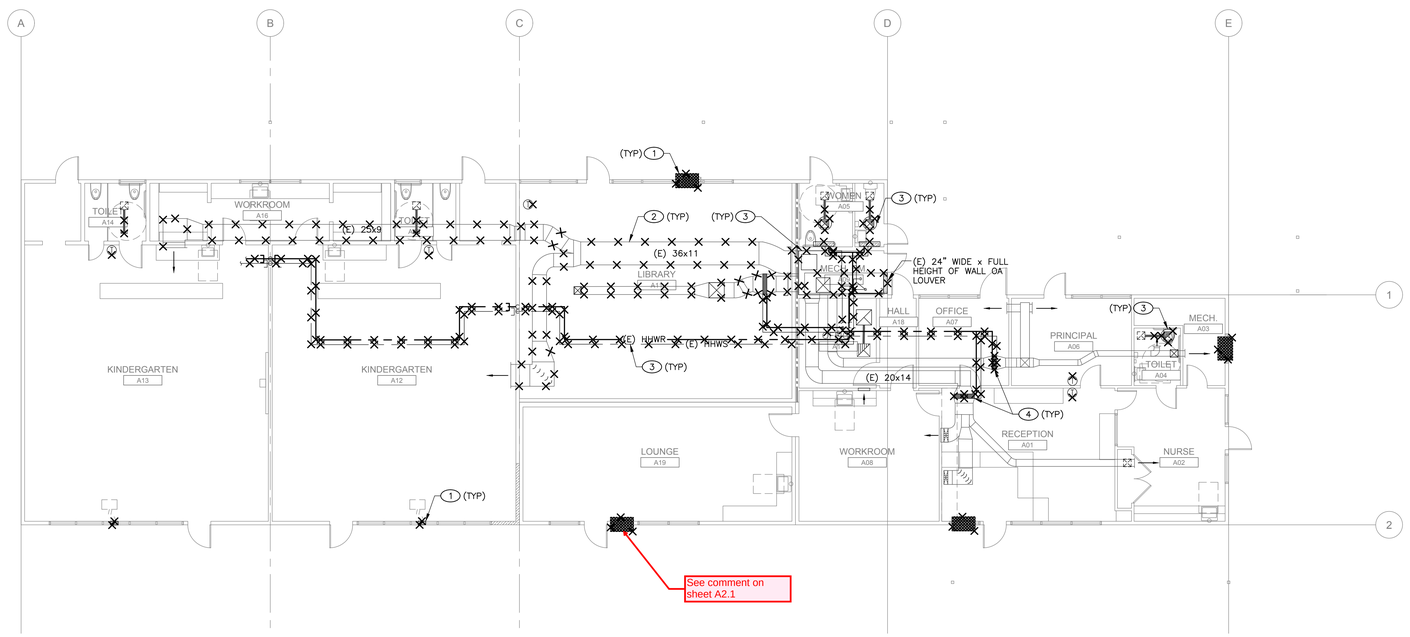
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

MECHANICAL SITE PLAN

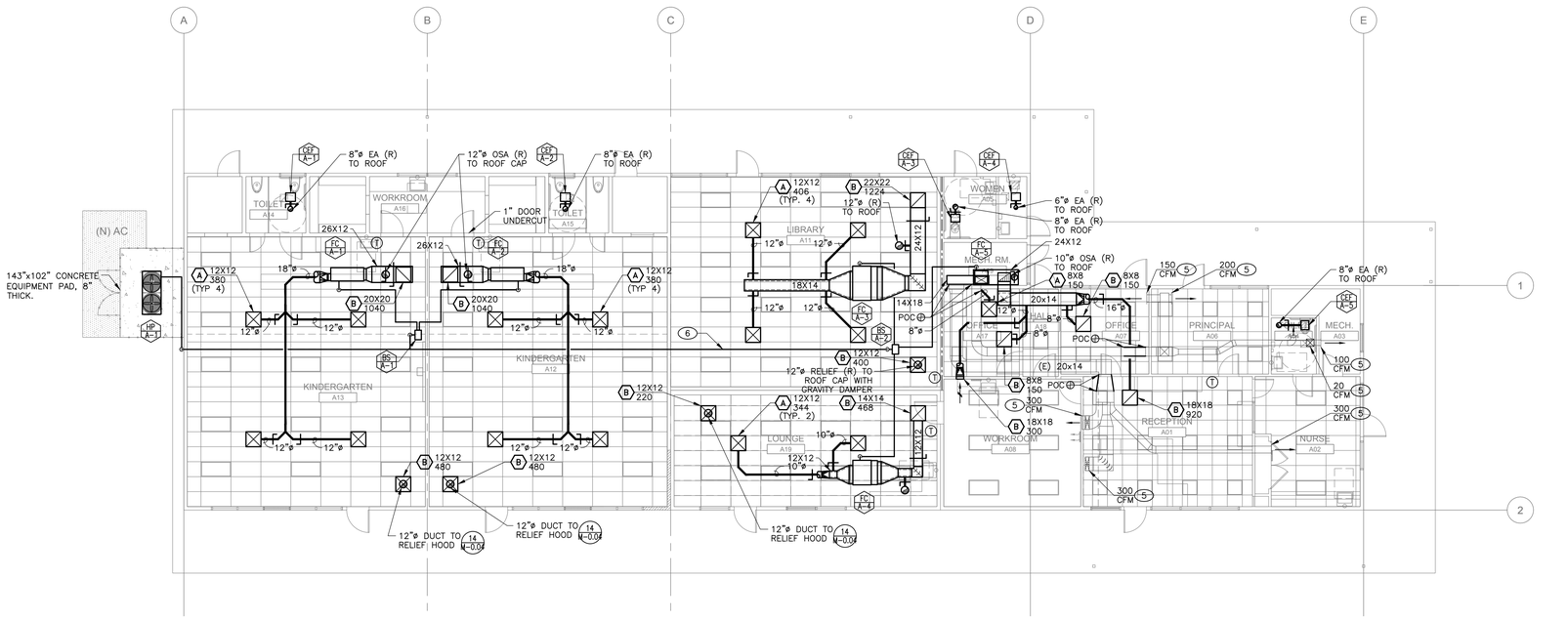
Date 12/23/2022	Project Number 22025
Application Number 02-120630	Drawing Number M1.00
Drawn KT	Checked CD

KEY NOTES

1. REMOVE EXISTING MECHANICAL EQUIPMENT SHOWN HATCHED AND RELATED DUCTWORK BACK TO POD.
2. REMOVE EXISTING DUCTWORK SHOWN HATCHED.
3. REMOVE EXISTING PIPING SHOWN HATCHED.
4. REMOVE EXISTING FAN COIL UNIT.
5. RE-BALANCE EXISTING OUTLET/INLET TO AIR QUANTITY SHOWN. PROVIDE BALANCE DAMPER AS REQUIRED.
6. REFRIGERANT LINE SET.



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



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

GENERAL NOTES

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS OR DISCREPANCIES TO ARCHITECT/ENGINEER.
2. PROVIDE CONDENSATE DRAIN AND CONNECT TO THE NEAREST SINK TAIL PIECE, MOP SINK, OR THE ROOF DRAIN. PROVIDE CONDENSATE PUMP WITH 120V POWER CONNECTION AS REQUIRED.
3. AIR BALANCE ALL MECHANICAL SYSTEMS. SEE AIR FLOW INFORMATION ON CD DRAWINGS.
4. CONTRACTOR TO CLEAN ALL EXISTING DUCTWORK TO REMAIN.

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Job #: 22-2198

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LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER EVAN WAN HIN CHUEN M 39462 REN. 6-30-23 MECHANICAL STATE OF CALIFORNIA

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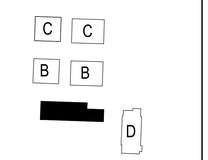
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

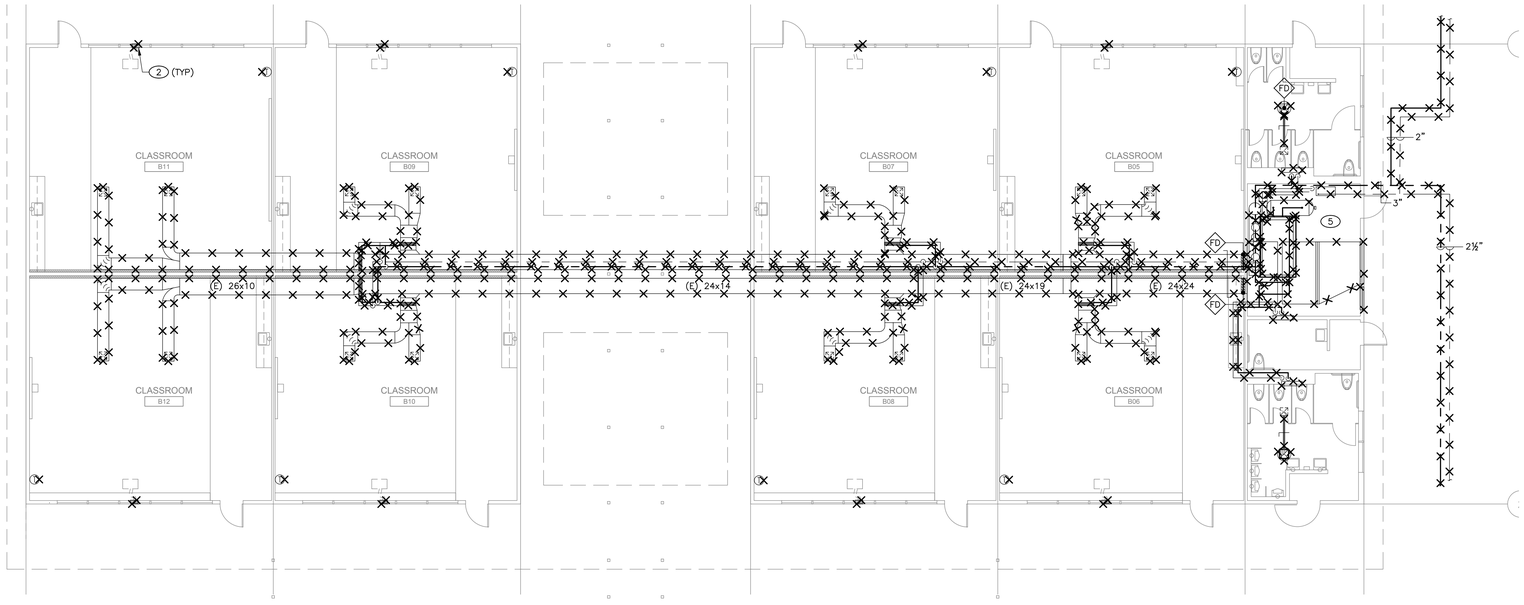
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

MECHANICAL FLOOR PLAN BUILDING A

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	M3.10
Drawn / Checked	
KT / CD	

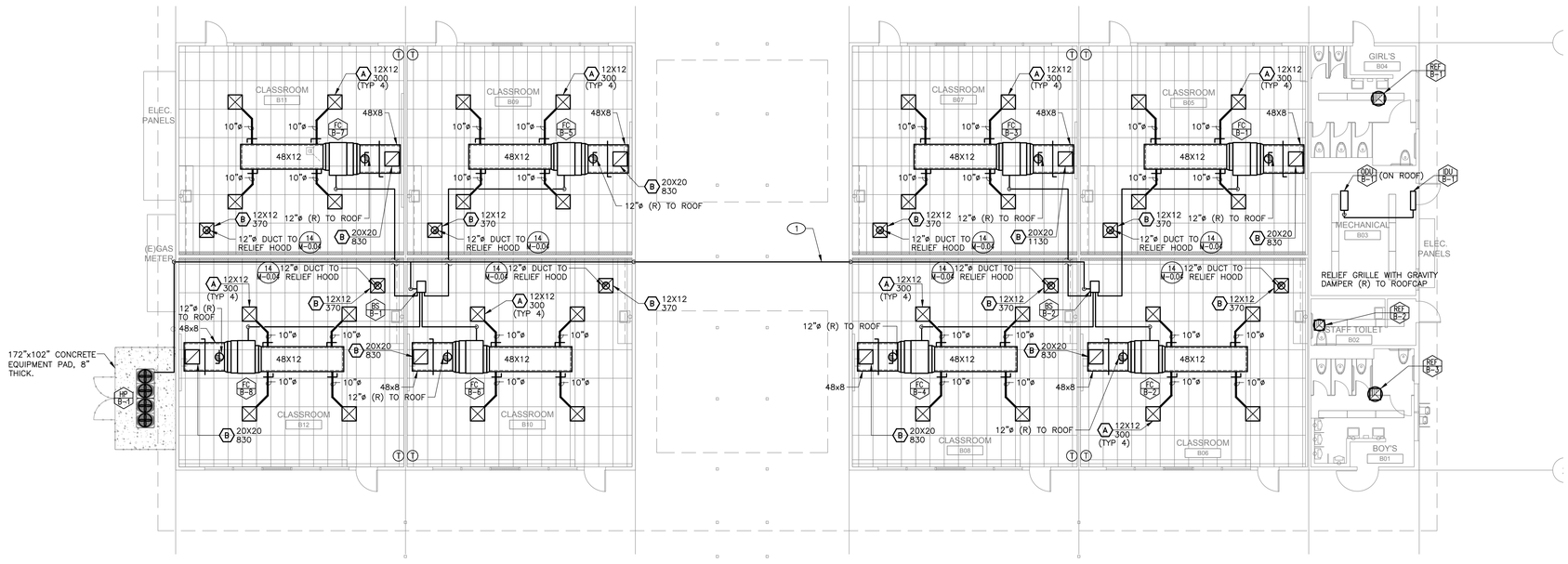
KEY NOTES

1. REFRIGERANT LINE SET.
2. REMOVE EXISTING MECHANICAL EQUIPMENT SHOWN HATCHED AND RELATED DUCTWORK BACK TO POD.
3. REMOVE EXISTING DUCTWORK SHOWN HATCHED.
4. REMOVE EXISTING PIPING SHOWN HATCHED.
5. 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.



DEMO MECHANICAL FLOOR PLAN - BUILDING B | 1

1/8" = 1'-0"



MECHANICAL FLOOR PLAN - BUILDING B | 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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4. CONTRACTOR TO CLEAN ALL EXISTING DUCTWORK TO REMAIN.

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER EVAN WAN HIN CHEUNG No. M 39462 REN. 6-30-23 MECHANICAL STATE OF CALIFORNIA

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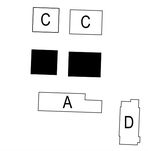
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

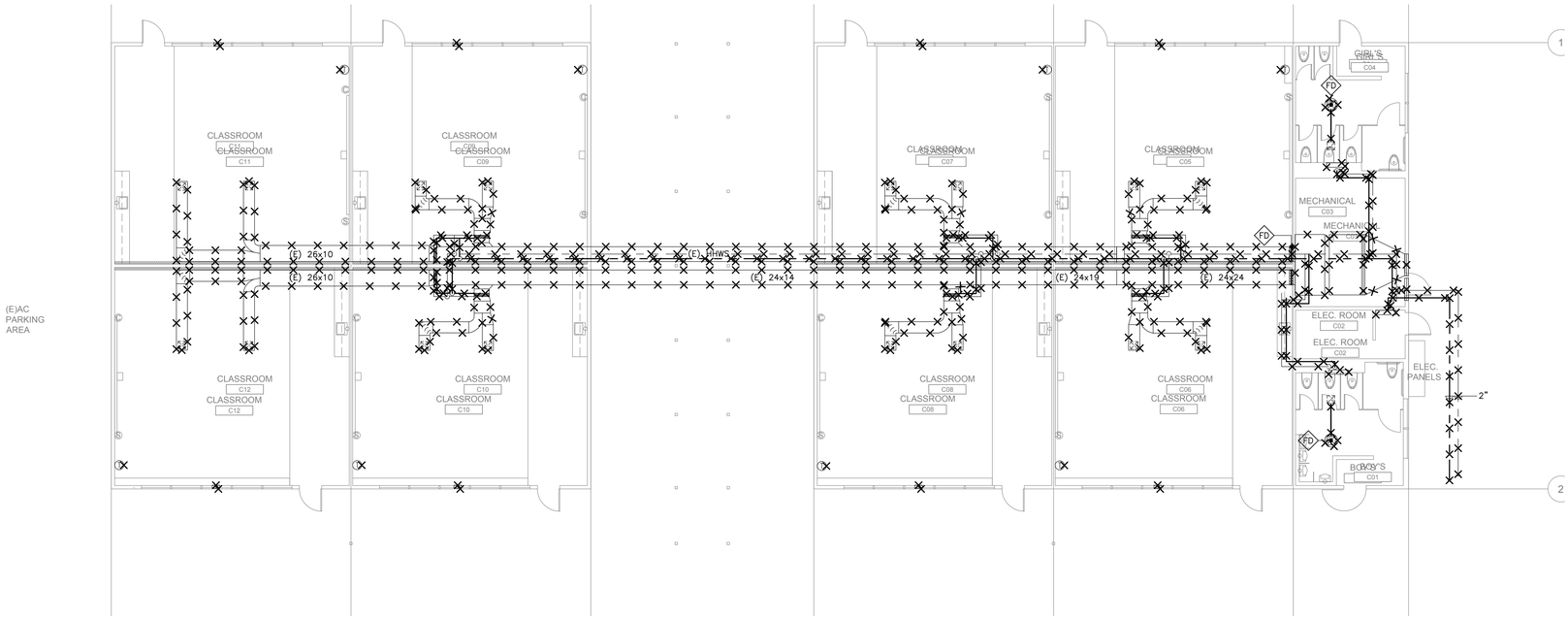
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

MECHANICAL FLOOR PLAN BUILDING B

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	M3.11
Drawn / Checked	
KT / CD	

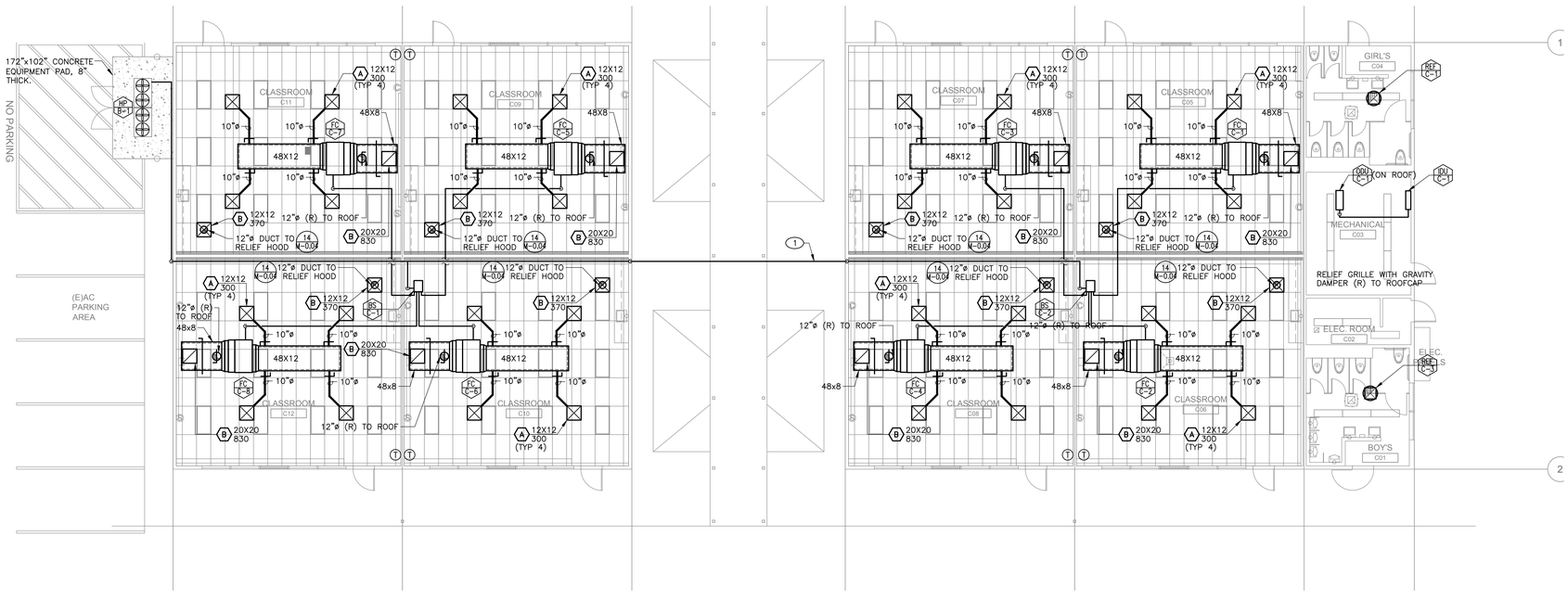
KEY NOTES

1. REFRIGERANT LINE SET.
2. REMOVE EXISTING MECHANICAL EQUIPMENT SHOWN HATCHED AND RELATED DUCTWORK BACK TO POD.
3. REMOVE EXISTING DUCTWORK SHOWN HATCHED.
4. REMOVE EXISTING PIPING SHOWN HATCHED.



DEMO MECHANICAL FLOOR PLAN - BUILDING C | 1

1/8" = 1'-0"



MECHANICAL FLOOR PLAN - BUILDING C | 2

1/8" = 1'-0"

GENERAL NOTES

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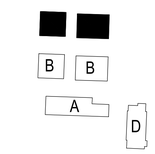
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

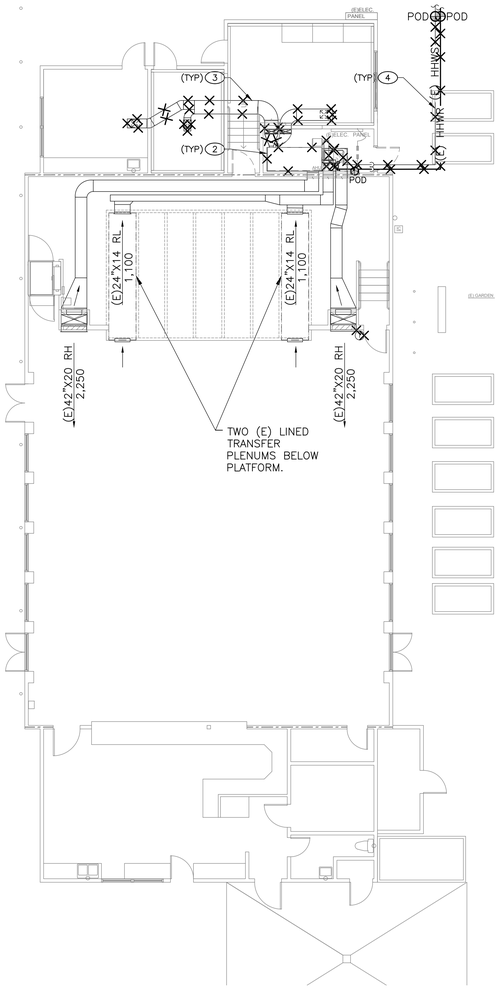
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SAN JOSE, CA 95116

MECHANICAL FLOOR PLAN BUILDING C

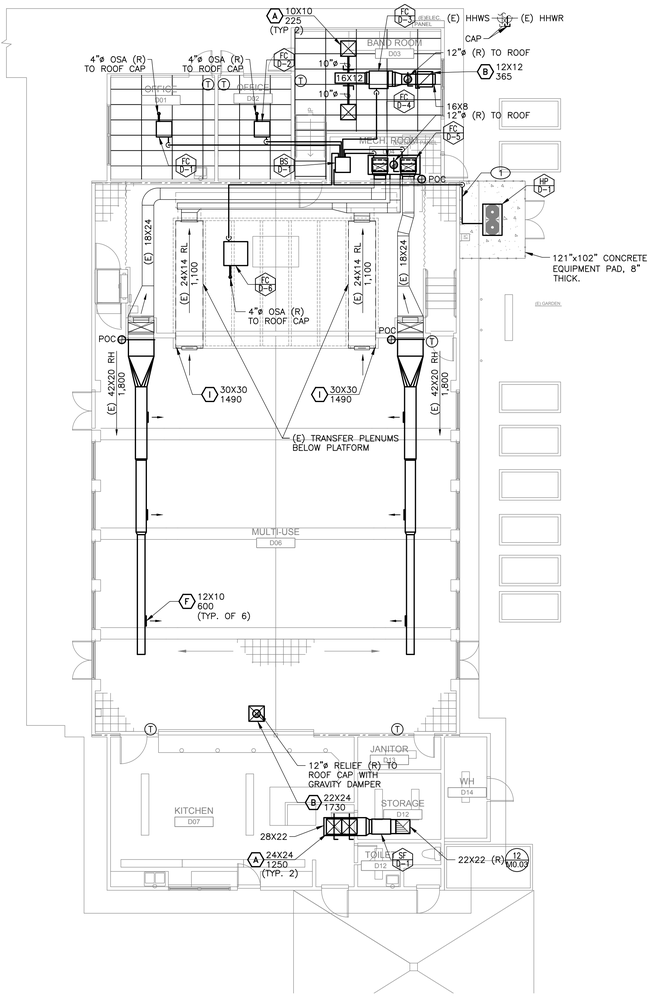
Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	M3.12
Drawn / Checked	
KT / CD	

KEY NOTES

1. REFRIGERANT LINE SET.
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3. REMOVE EXISTING DUCTWORK SHOWN HATCHED.
4. REMOVE EXISTING PIPING SHOWN HATCHED.



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



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

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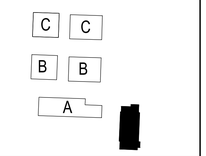
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



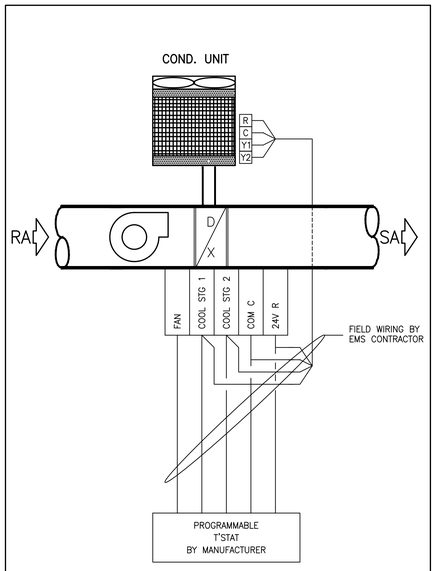
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

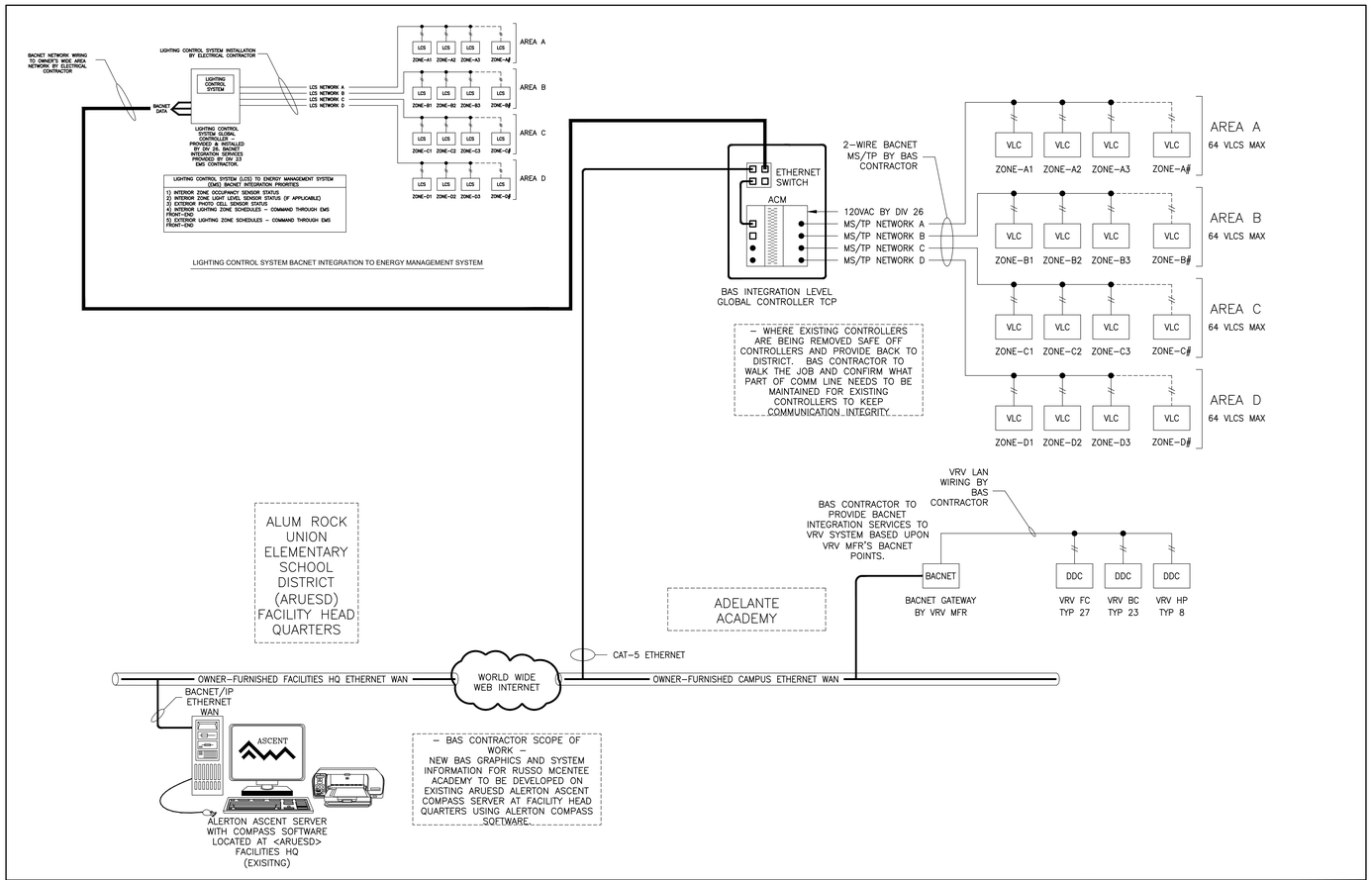
ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

MECHANICAL FLOOR PLAN BUILDING D

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	M3.13
Drawn: KT	Checked: CD



SPLIT SYSTEM FAN COIL UNIT | NTS | 3



ALERTON BACNET BAS SYSTEM - NETWORK ARCHITECTURE | NTS | 1

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.

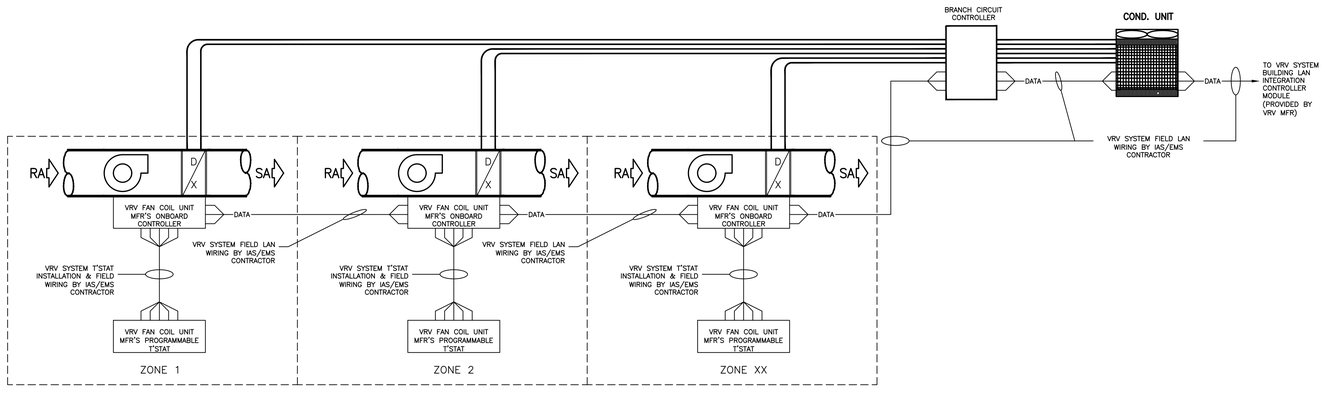
5. AUTOMATIC DEMAND REDUCTION CONTROLS
   a. EMS SHALL BE PROGRAMMED WITH CAPABILITY TO IMPLEMENT CENTRALIZED DEMAND SHED FOR ALL NON–CRITICAL ZONES UPON CALL FOR AUTOMATIC DEMAND REDUCTION. CRITICAL ZONES SHALL NOT BE IMPACTED BY DEMAND SHED CONSERVATION MEASURES.

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 SET POINT.
   i. ZONE UNOCCUPIED HEATING SET POINT.
   j. FAN COIL UNIT DISCHARGE AIR TEMPERATURE.
   k. FAN COIL UNIT OPERATION MODEL.
   l. ROOM OCCUPANCY MODE (VIA BACNET INTEGRATION TO LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR.).
   m. COMPRESSOR STATUS.
   n. FAN COIL UNIT THERMAL CONDITIONING STATUS.
   o. FAN COIL UNIT THERMAL CONDITIONING LOCKOUT STATUS.



VRV FAN COIL SYSTEM - IAS/EMS FIELD WIRING DIAGRAM | NTS | 2

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITTAKER No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER EVAN WAN HIN CHEUNG M 39462 REN. 6-30-23 MECHANICAL STATE OF CALIFORNIA

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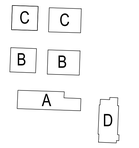
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

MECHANICAL CONTROLS

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	M5.10
Drawn / Checked	
KT / CD	

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
S-T	FIXTURE DESIGNATION UNIT ABBREVIATION NUMBER	
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.

O. PIPING INSULATION (INTERIOR APPLICATIONS):
- O.1. GLASS FIBER INSULATION: ASTM C 547 AND ASTM C 795. 'K' ('KSI') VALUE: 0.24 AT 75 DEGREES F, WHEN TESTED IN ACCORDANCE WITH ASTM C 177. MAXIMUM SERVICE TEMPERATURE: 850 DEGREES F. MAXIMUM MOISTURE ABSORPTION: 0.20 PERCENT BY VOLUME.
- O.2. VAPOR BARRIER JACKET: WHITE KRAFT PAPER WITH GLASS FIBER YARN, BONDED TO ALUMINIZED FILM; MOISTURE VAPOR TRANSMISSION WHEN TESTED IN ACCORDANCE WITH ASTM E 96/E 96M OF 0.02.
- O.3. INSULATION THICKNESS SCHEDULES:
  - O.3.1. DOMESTIC HOT AND TEMPERED WATER SUPPLY:
    - O.3.1.1. 1–1/2 INCH THICKNESS FOR PIPING 1 INCH AND LARGER.
    - O.3.1.2. 1 INCH THICKNESS FOR PIPING LESS THAN 1 INCH.
  - O.3.2. DOMESTIC COLD WATER LOCATED IN UNHEATED AREAS:
    - O.3.2.1. 1 INCH THICKNESS FOR PIPING 1–1/2 INCHES AND LARGER.
    - O.3.2.2. 3/4 INCH THICKNESS FOR PIPING 1 INCHES AND SMALLER.

P. INSULATE DOMESTIC HOT WATER, TEMPERED WATER AND WASTE PIPING BELOW HANDICAPPED PLUMBING FIXTURES WITH MOLDED SINGLE PIECE REMOVABLE INSULATION COVERS, FOAM, FIRE RESISTANT, TRUEBRO, OR EQUAL. INSTALL INSULATION COVERS IN ACCORDANCE WITH CBC ACCESS REQUIREMENTS.

Q. FIXTURES, DOMESTIC WATER PIPING AND COMPONENTS SHALL BE PROVIDED AND INSTALLED IN COMPLIANCE WITH CALIFORNIA AB 1953 LEGISLATION WHICH LIMITS THE ALLOWABLE LEAD CONTENT IN CERTAIN DOMESTIC WATER SYSTEM COMPONENTS.

R. PROVIDE COMPRESSION SHUTOFF CONTROL STOP VALVES WITH IPS INLETS AND THREADED BRASS NIPPLES AT PIPE CONNECTION ON WATER SUPPLIES TO EACH FIXTURE.

S. PROVIDE CHROMIUM–PLATED FINISH ON FITTINGS AND ACCESSORIES EXPOSED TO VIEW.

T. FIXTURE FITTINGS AND TRIM: CONFORM TO ASME A112.18.1M AND ASME A112.19.5, AS APPLICABLE.

U. PROVIDE WATER HAMMER ARRESTORS AT END OF PIPE RUNS TO TWO OR MORE FIXTURES, PROPERLY SIZED WITH SUFFICIENT DISPLACEMENT VOLUME TO DISSIPATE CALCULATED ENERGY IN THE PIPING SYSTEMS. WATER HAMMER ARRESTORS SHALL BE STAINLESS STEEL SHELL WITH STAINLESS STEEL BELLOWS CONTAINED WITHIN THE CASING, ZURN MODEL Z–1700, OR EQUAL.

V. PROVIDE PIPE SLEEVES WHERE PIPES AND TUBING PASS THROUGH WALLS, FLOORS, ROOFS, AND PARTITIONS. FINISH FLUSH AT BOTH ENDS. EXTEND 2 INCHES (50 MM) ABOVE FINISHED FLOORS. PACK SPACE BETWEEN PIPE OR TUBING AND SLEEVE, AND CALK.

W. IDENTIFY PIPING WITH TAPE AND DECALS. INSTALL LABELING ON PIPE AT INTERVALS OF NOT MORE THAN 20 FEET (6 METERS) AND AT LEAST ONCE IN EACH ROOM AND EACH STORY TRAVERSED BY PIPELINE.

X. PROVIDE NON–CONDUCTING DIELECTRIC CONNECTIONS WHEREVER JOINTING DISSIMILAR METALS.

Y. ALL PLUMBING VENTS SHALL TERMINATE NOT LESS THAN 10' FROM ANY OUTSIDE AIR INTAKE OR OPENING TO THE BUILDING.

Z. ALL EXPOSED MATERIAL SHALL BE PREPARED WITH A PRIME COAT AND THEN PAINTED.

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 FLOOR PLAN BUILDING C
P3.13	PLUMBING FLOOR PLAN BUILDING D

Applicable Code: 2019 CBC 02/05/2020 Revised: 02/14/2020

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 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 include 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 having 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 the above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 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 preapproved 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 #) #_____.

DESIGN PROFESSIONAL USER NOTE (do not copy this 'user note' to the plans):

Mechanical/Plumbing/Electrical Design Professionals: Identify which option(s) apply for your project. If the first option is chosen, provide project specific details, consistent with the supporting structural support framing materials, showing support and bracing; clearly indicate the supports and bracing for all applicable systems. For the second option, specify the OPM # (for 2013 CBC or later) applicable to the conditions of the project.
Coordinate with the SEOR to verify the adequacy of the structure to support all hanger and brace loads.

Add notes for plumbing piping or indicate entry on schedule M0.01

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITTHORN No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER EVAN WAI HIN CHEUNG No. M 39462 REN. 6-30-23 MECHANICAL STATE OF CALIFORNIA

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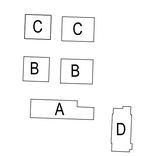
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NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



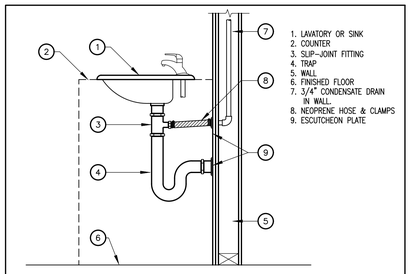
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2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

PLUMBING SPECIFICATIONS, LEGEND, AND NOTES

Date 12/23/2022	Project Number 22025
Application Number 02-120630	Drawing Number P0.01
Drawn KT	Checked CD



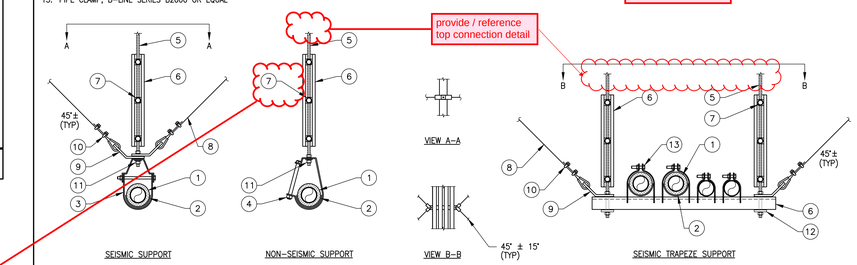
PPICD02A

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. STANDARD CLEVIS PIPE HANGER, COATED OR PLATED TO ISOLATE HANGER FROM DISSIMILAR METAL PIPING, B-LINE B3100 OR EQUAL
4. ADJUSTABLE 'J' PIPE HANGER, COATED OR PLATED TO ISOLATE HANGER FROM DISSIMILAR METAL PIPING, B-LINE B3690 OR EQUAL
5. 3/8"ø THREADED ROD, B-LINE ATR OR EQUAL
6. 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B-LINE B22 OR EQUAL
7. ROD STIFFENER, B-LINE TOLCO MODEL 98B OR EQUAL, MIN. 1" FROM TOP AND BOTTOM OF UNISTRUT AND MAX. 28" O.C., TORQUE TO 10 FT-LBS
8. 3/32"ø PRE-STRETCHED GALVANIZED AIRCRAFT CABLE, 7x19 STRAND CORE
9. 2"x3"x1/4" X 1-5/8" WIDE GALVANIZED STEEL ANGLE, B-LINE MODEL B154 OR EQUAL
10. CABLE THIMBLE AND CABLE CLIPS
11. NUT AND WASHER, TOP AND BOTTOM
12. NUT, TOP AND BOTTOM WITH UNISTRUT SQUARE WASHER, B-LINE MODEL B201ZN OR EQUAL
13. PIPE CLAMP, B-LINE SERIES B2000 OR EQUAL

justify space, use tighter space as needed

provide / reference top connection detail



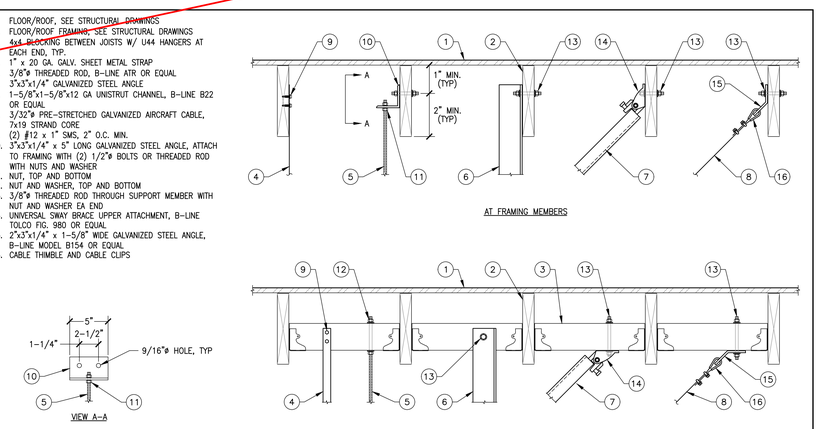
NOTES:
A. HANGER SPACING TO BE PER SPECIFICATIONS. MAXIMUM SPACING MAY NOT EXCEED 2019 CPC TABLE 313.3.
B. PROVIDE ROD STIFFENERS ONLY WHERE ROD LENGTH FROM SEISMIC BRACING TO UPPER ATTACHMENT EXCEEDS 18".
C. SEISMIC RESTRAINTS ARE NOT REQUIRED FOR 3/4" AND SMALLER GAS PIPING, AND FOR ALL OTHER PIPING 2" AND SMALLER.
D. SEISMIC RESTRAINTS ARE NOT REQUIRED FOR ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH FROM ~~TOP OF PIPE TO BOTTOM OF ATTACHMENT TO STRUCTURE.~~

PIPE HANGER DETAIL | NTS | 1

it is unclear why rod stiffener is needed at non-seismic support condition. Rod is in tension only at this application

1. FLOOR/ROOF, SEE STRUCTURAL DRAWINGS
2. FLOOR/ROOF ~~FRAMING~~, SEE STRUCTURAL DRAWINGS
3. ~~4x4 BLOCKING~~ BETWEEN JOISTS W/ U44 HANGERS AT EACH END, TYP.
4. 1" x 20 GA. GALV. SHEET METAL STRAP
5. 3/8"ø THREADED ROD, B-LINE ATR OR EQUAL
6. 3"x3"x1/4" GALVANIZED STEEL ANGLE
7. 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B-LINE B22 OR EQUAL
8. 3/32"ø PRE-STRETCHED GALVANIZED AIRCRAFT CABLE, 7x19 STRAND CORE
9. (2) #12 x 1" SMS, 2" O.C. MIN.
10. 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
11. NUT, TOP AND BOTTOM
12. NUT AND WASHER, TOP AND BOTTOM
13. 3/8"ø THREADED ROD THROUGH SUPPORT MEMBER WITH NUT AND WASHER EA END
14. UNIVERSAL SWAY BRACE UPPER ATTACHMENT, B-LINE TOLCO FIG. 980 OR EQUAL
15. 2"x3"x1/4" x 1-5/8" WIDE GALVANIZED STEEL ANGLE, B-LINE MODEL B154 OR EQUAL
16. CABLE THIMBLE AND CABLE CLIPS

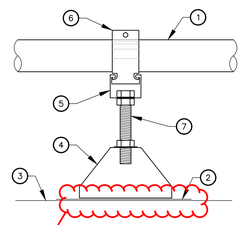
Update note as indicated... the pipe support point to the connection at the supporting structure, ref CBC 1617A.1.26 Item A1



HANGER UPPER ATTACHMENTS (WOOD) | NTS | 2

1. PIPING ON ROOF.
2. ROOFING SUPPORT PAD.
3. ROOFING MATERIAL.
4. MIRO INDUSTRIES ROOTOP PIPE SUPPORT OR EQUAL. WOOD BLOCKING NOT ACCEPTABLE.
5. 14 GA. GALVANIZED SLOTTED 1" CHANNEL.
6. PIPE CLASP WITH THRU-BOLT.
7. PROVIDE 1/2" ADJUSTABLE THREADED ROD RISERS WITH NUTS FOR SLOPED PIPING

NOTE:
1. PROVIDE PIPE SUPPORT AT CHANGEGS IN PIPE DIRECTION AND AT MAXIMUM SPACING OF 8FT.

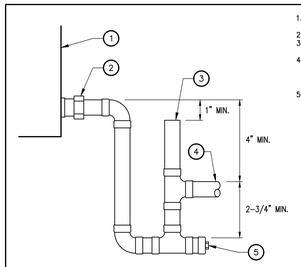


PPISA01A

TYP. PIPE SUPPORT ON ROOF | NTS | 4

how is bottom connected to roof framing? specify

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

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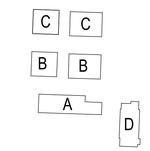
REVISION HISTORY

NO.	REMARKS	DATE

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○ BIDDING	
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KEY PLAN



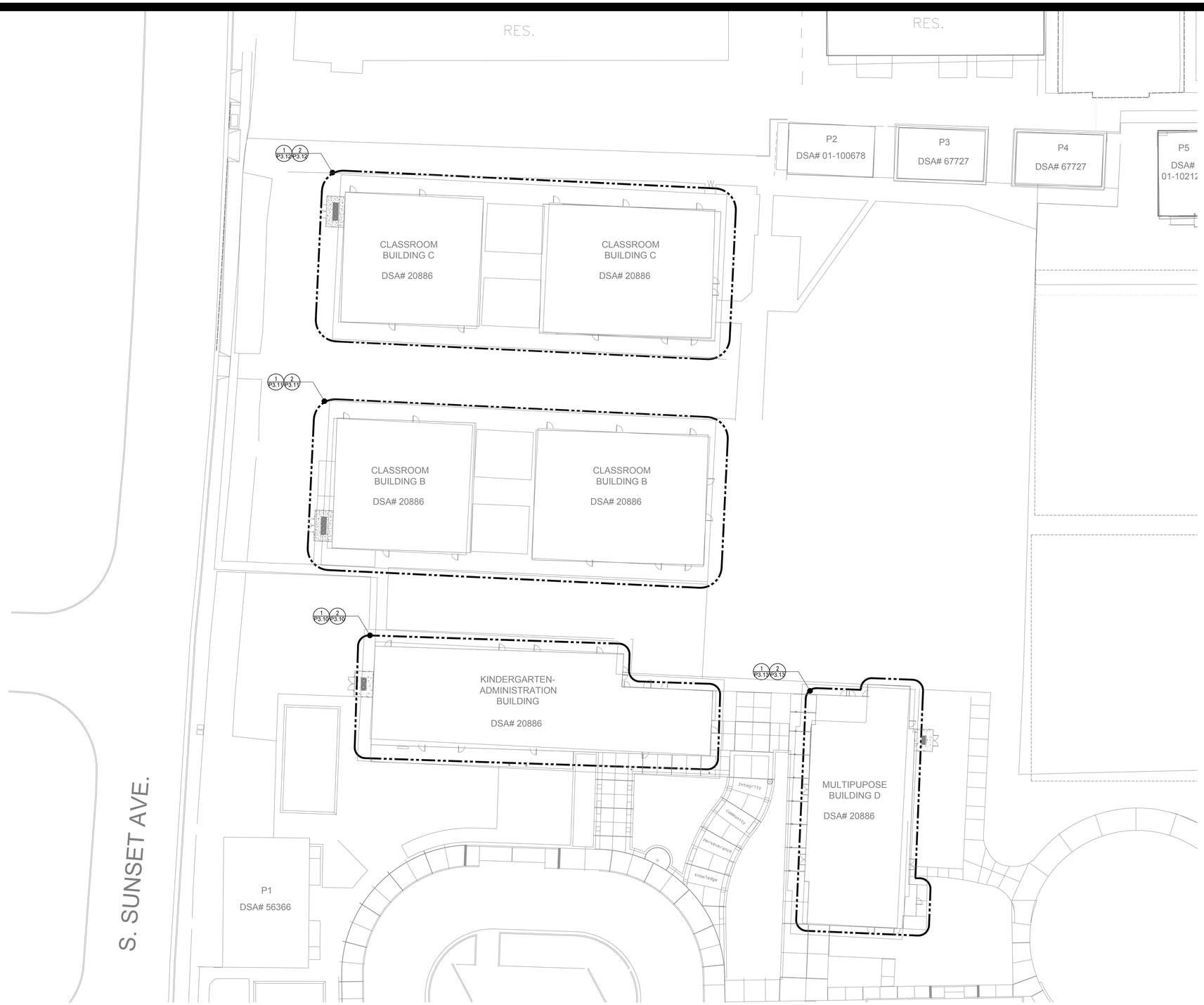
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
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PLUMBING DETAILS

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	P0.02
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PLUMBING SITE PLAN 1 1" = 20'

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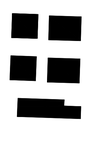
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○ CONSTRUCTION	

KEY PLAN



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CONSTRUCTION DOCUMENTS

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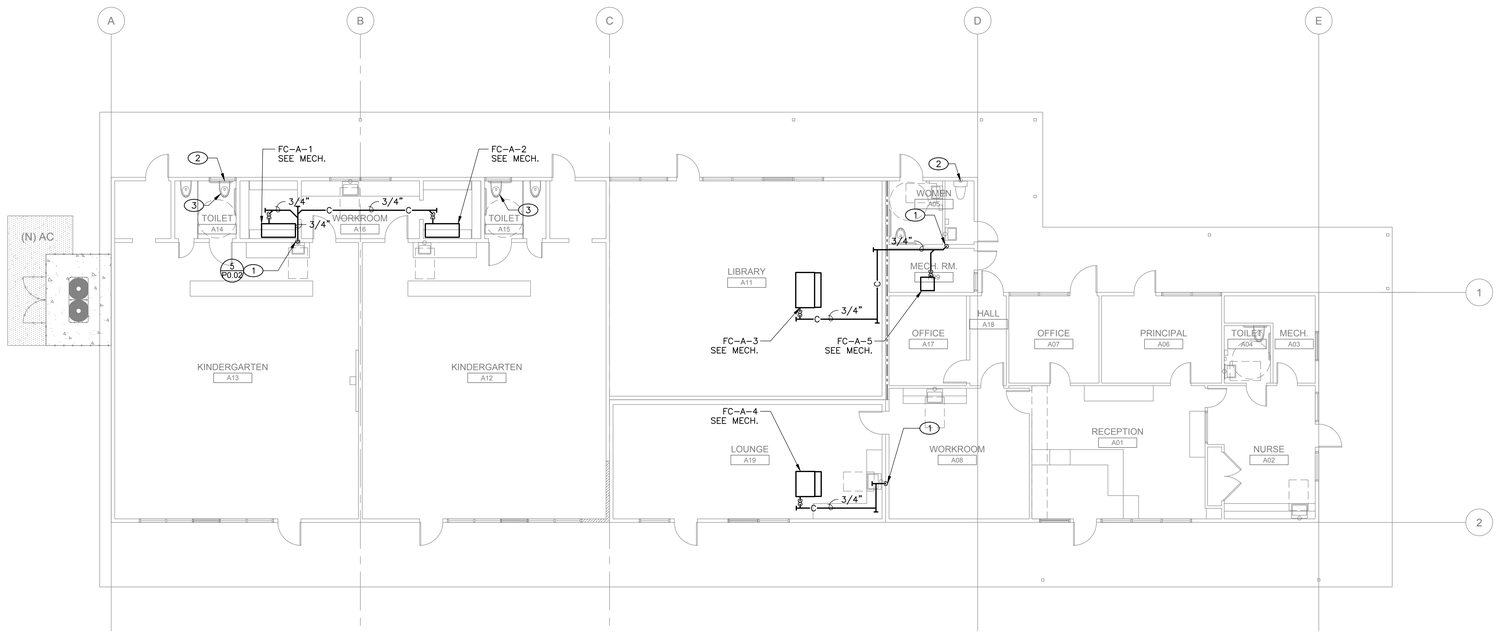
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PLUMBING SITE PLAN

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	P1.00
Drawn / Checked	
KT / CD	

KEY NOTES

1. DRAIN CONDENSATE TO EXISTING SINK TAIL PIECE.
2. RELOCATE FLOOR MOUNTED TOILET AND RECONNECT SANITARY CONNECTIONS.
3. PROVIDE KOHLER MODEL K-25875 TOILET SEAT COVER TO (E) TOILET.



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

GENERAL NOTES

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS OR DISCREPANCIES TO ARCHITECT/ENGINEER.
2. PROVIDE CONDENSATE DRAIN AND CONNECT TO THE NEAREST SINK TAIL PIECE, MOP SINK, OR THE ROOF DRAIN. PROVIDE CONDENSATE PUMP WITH 120V POWER CONNECTION AS REQUIRED.

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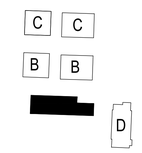
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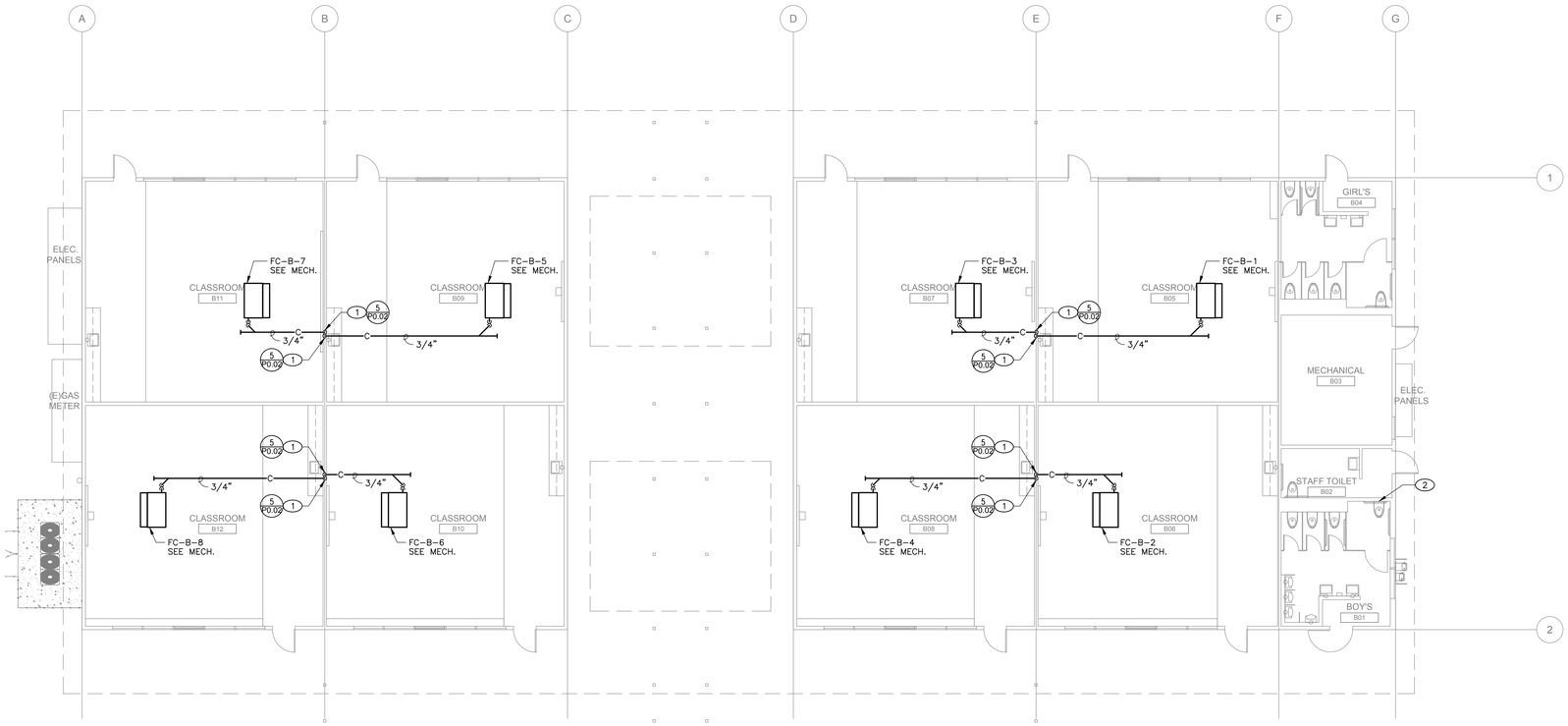
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PLUMBING FLOOR PLAN BUILDING A

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	P3.10
Drawn / Checked	
KT / CD	

KEY NOTES

1. DRAIN CONDENSATE TO EXISTING SINK TAIL PIECE.
2. RELOCATE FLOOR MOUNTED TOILET AND RECONNECT SANITARY CONNECTIONS.



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

GENERAL NOTES

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS OR DISCREPANCIES TO ARCHITECT/ENGINEER.
2. PROVIDE CONDENSATE DRAIN AND CONNECT TO THE NEAREST SINK TAIL PIECE, MOP SINK, OR THE ROOF DRAIN. PROVIDE CONDENSATE PUMP WITH 120V POWER CONNECTION AS REQUIRED.

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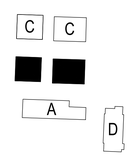
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	DATE
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○ DSA BACK CHECK	
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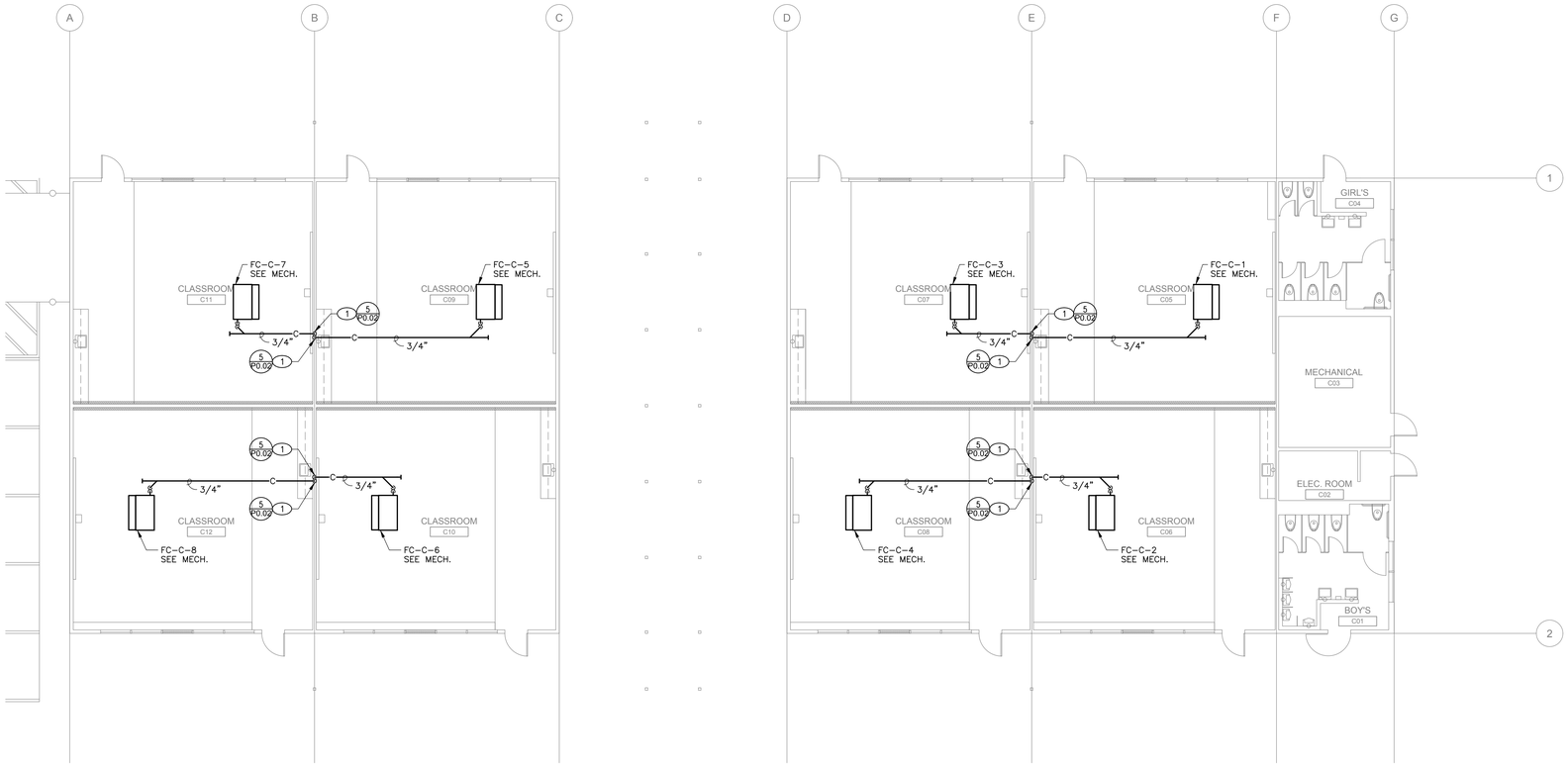
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PLUMBING FLOOR PLAN BUILDING B

Date 12/23/2022	Project Number 22025
Application Number 02-120630	Drawing Number P3.11
Drawn KT	Checked CD

KEY NOTES

(1) DRAIN CONDENSATE TO EXISTING SINK TAIL PIECE.



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

GENERAL NOTES

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS OR DISCREPANCIES TO ARCHITECT/ENGINEER.
2. PROVIDE CONDENSATE DRAIN AND CONNECT TO THE NEAREST SINK TAIL PIECE, MOP SINK, OR THE ROOF DRAIN. PROVIDE CONDENSATE PUMP WITH 120V POWER CONNECTION AS REQUIRED.

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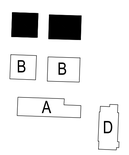
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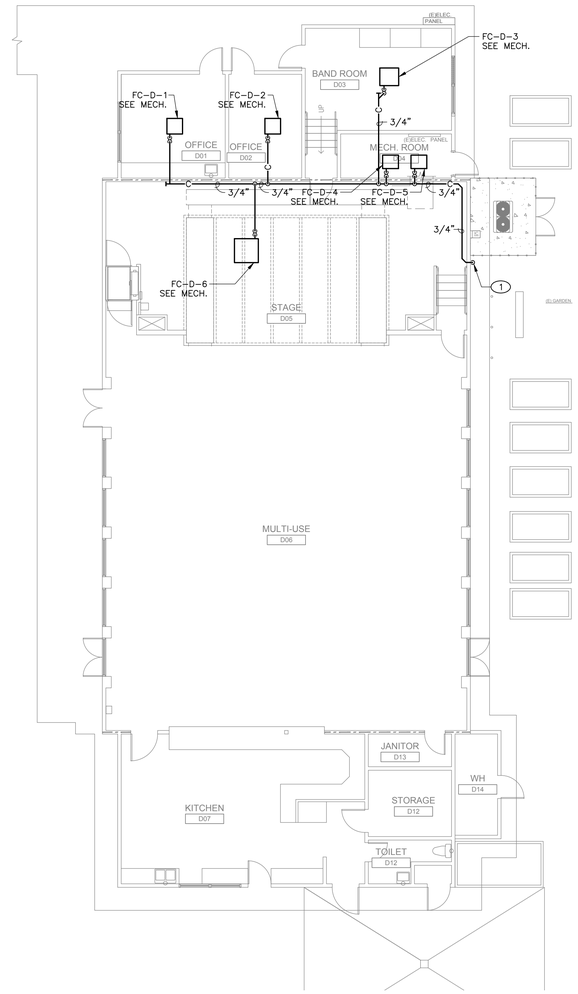
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CONSTRUCTION DOCUMENTS

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SAN JOSE, CA 95116

PLUMBING FLOOR PLAN BUILDING C

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	P3.12
Drawn / Checked	
KT / CD	



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

KEY NOTES

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

GENERAL NOTES

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS OR DISCREPANCIES TO ARCHITECT/ENGINEER.
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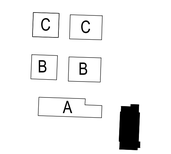
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PLUMBING FLOOR PLAN BUILDING D

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	P3.13
Drawn / Checked	
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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.

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
LCP	LIGHTING CONTROL PANEL
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

SHEET NO.	SHEET TITLE
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E0.02	ELECTRICAL SYMBOL LEGEND
E1.00	ELECTRICAL SITE PLAN
E2.10	LIGHTING PLANS – BUILDING A
E2.11	LIGHTING PLANS – BUILDING B
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E2.13	LIGHTING PLANS – BUILDING D
E3.10	ELECTRICAL POWER PLAN – BUILDING A
E3.11	ELECTRICAL POWER PLAN – BUILDING B
E3.12	ELECTRICAL POWER PLAN – BUILDING C
E3.13	ELECTRICAL POWER PLAN – BUILDING D
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E5.12	ELECTRICAL DETAILS

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REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN

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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

ELECTRICAL LEGEND AND NOTES

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	E0.01
Drawn / Checked	
KT / 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.
	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
	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.
DCR	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
PS	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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LICENSED ARCHITECT BRYAN P. WHITTEMORE 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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○ BIDDING	
○ CONSTRUCTION	

KEY PLAN

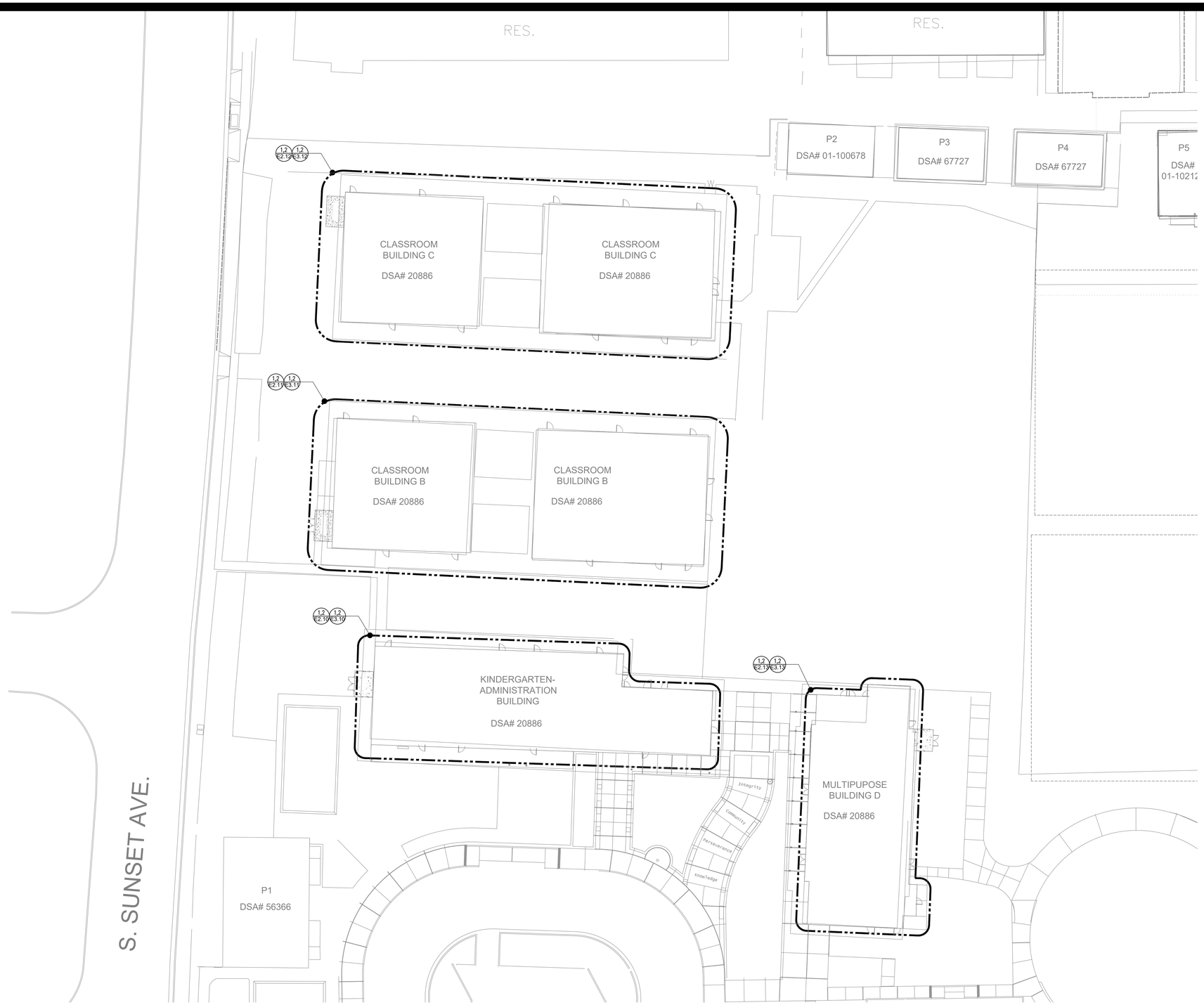
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

ELECTRICAL SYMBOL LEGEND

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	E0.02
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ELECTRICAL SITE PLAN 1 1" = 20'

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KEY PLAN

C C
B B
A D

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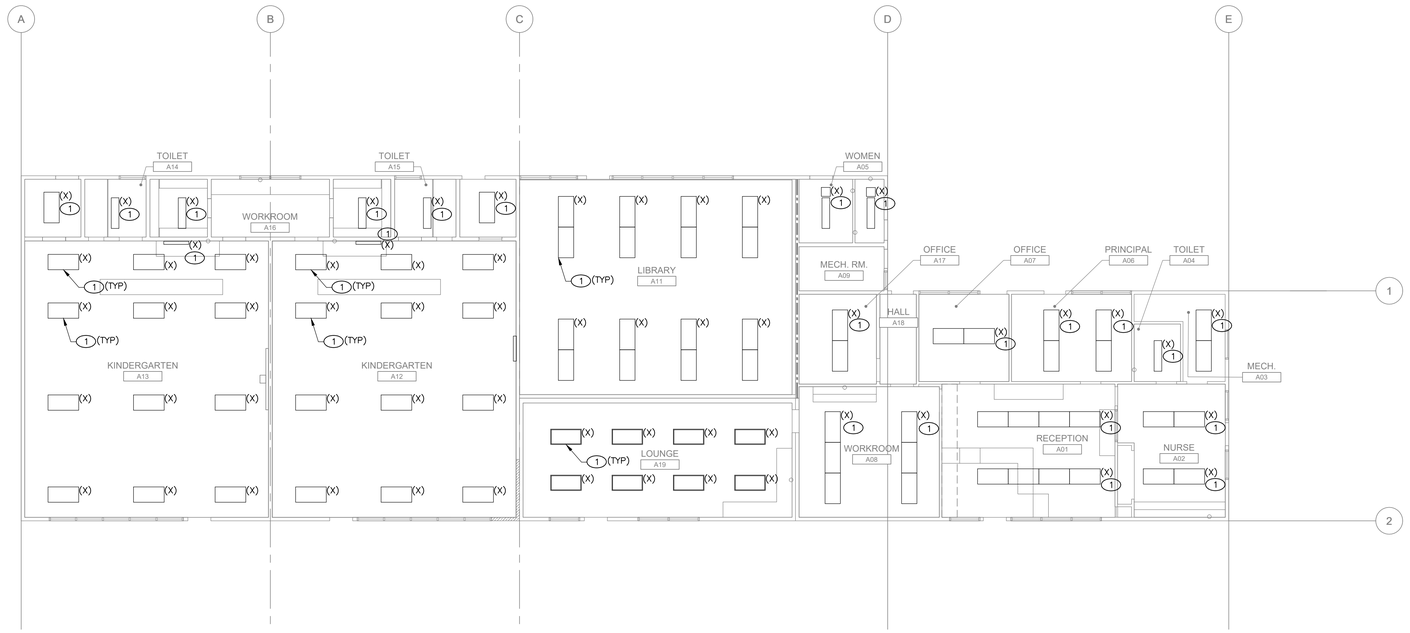
CONSTRUCTION DOCUMENTS

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ELECTRICAL SITE PLAN

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	E1.00
Drawn / Checked	
KT / CD	



DEMO LIGHTING PLAN - BUILDING A

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, UNO RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO EXISTING UN-SWITCHED CIRCUIT IN THE AREA.
2. NOT USED.
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.



NEW LIGHTING PLAN - BUILDING A

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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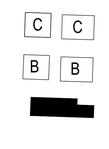
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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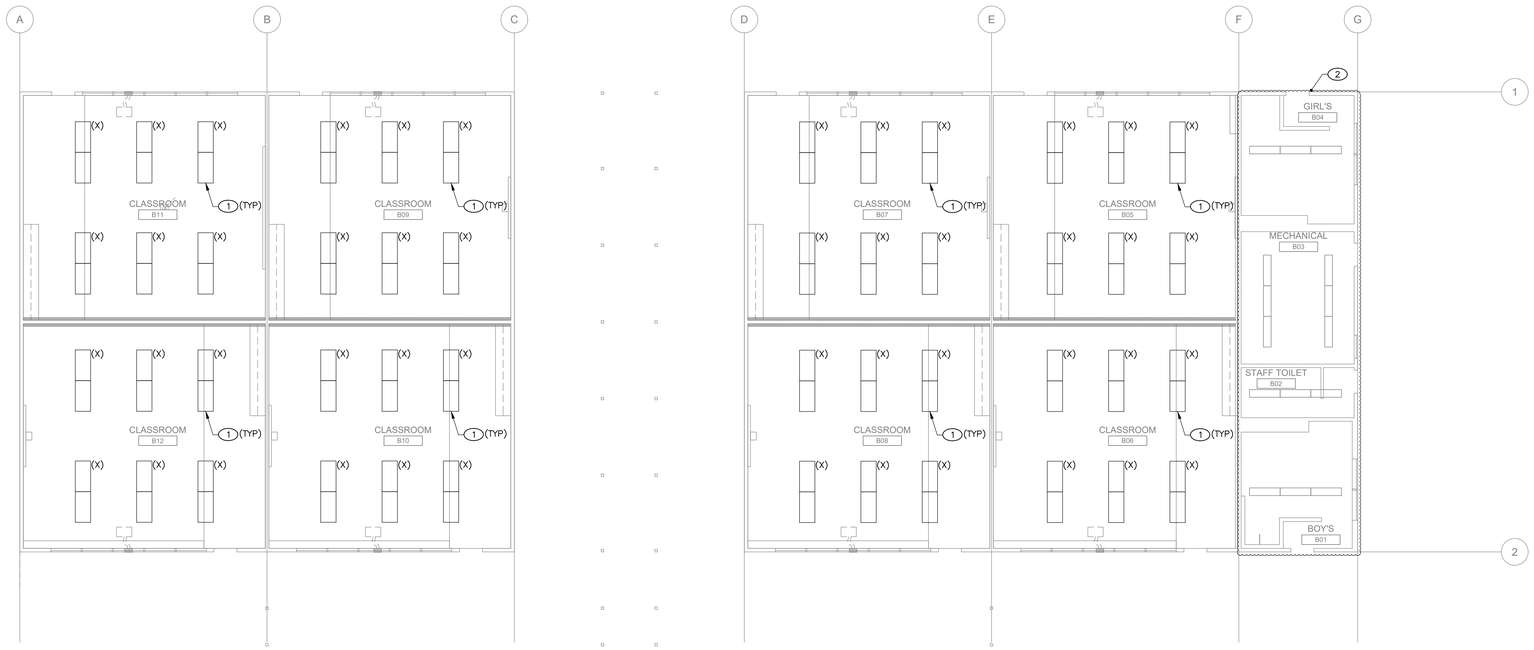
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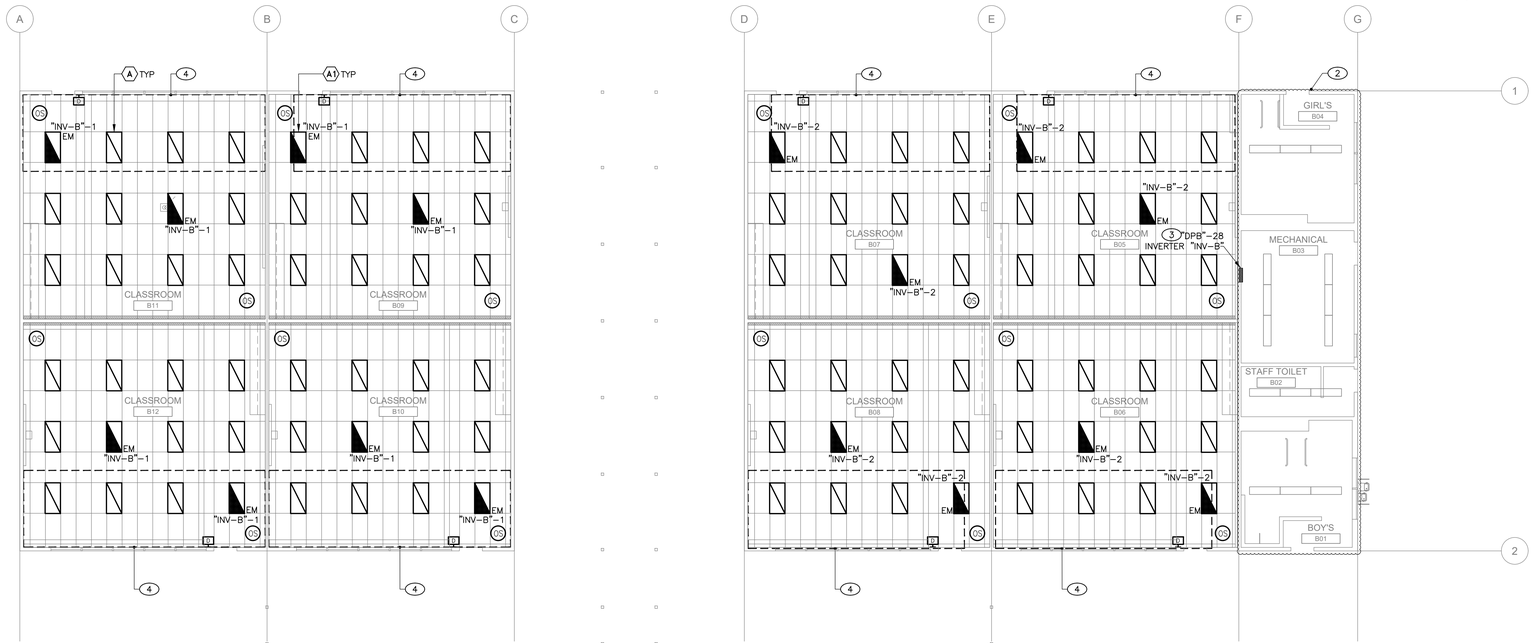
LIGHTING PLANS - BUILDING A

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	E2.10
Drawn / Checked	
KT / CD	



DEMO LIGHTING PLAN - BUILDING B | 1

1/8" = 1'-0"



NEW LIGHTING PLAN - BUILDING B | 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, UNO RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO EXISTING UN-SWITCHED CIRCUIT IN THE AREA.
2. LIGHTING IN THIS AREA IS EXISTING TO REMAIN.
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.

GENERAL NOTES

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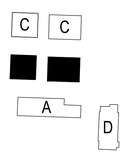
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	DATE
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○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



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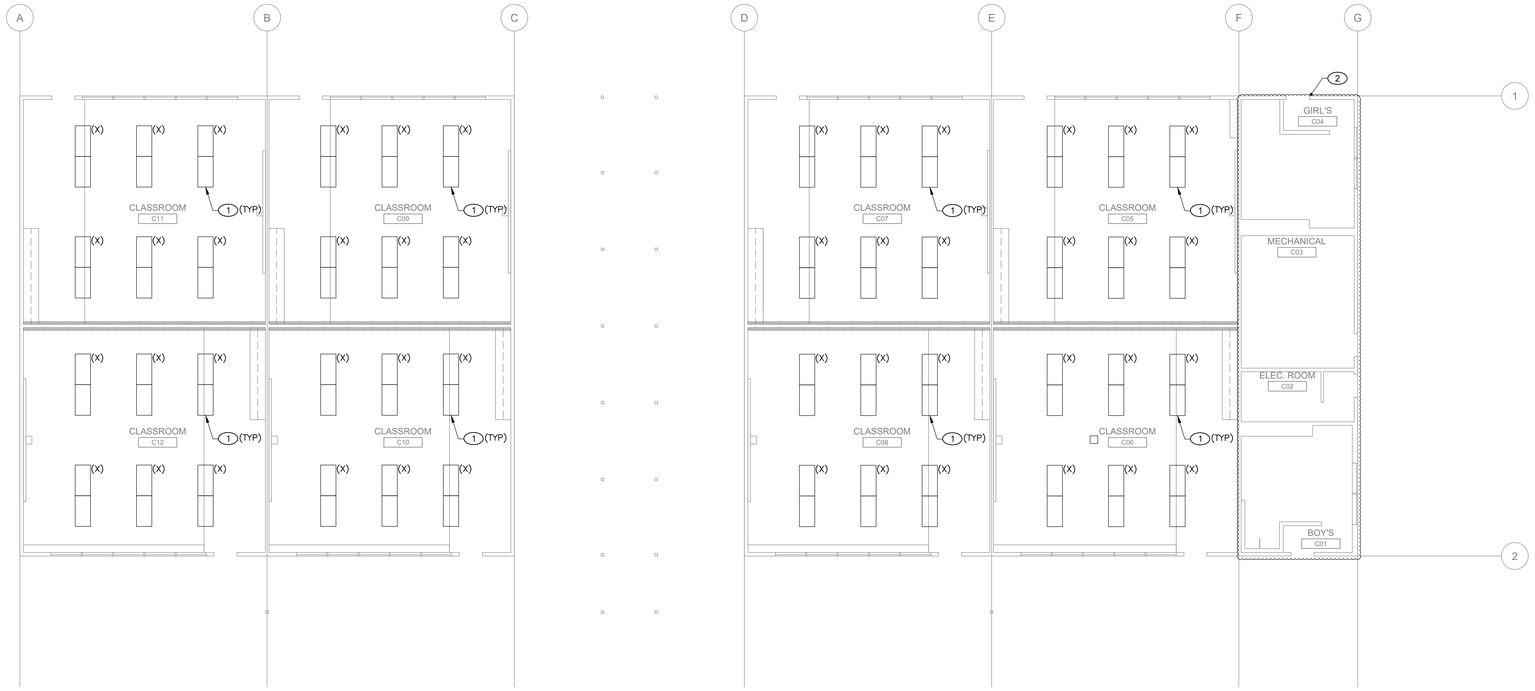
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

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LIGHTING PLANS - BUILDING B

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	E2.11
Drawn / Checked	
KT / CD	

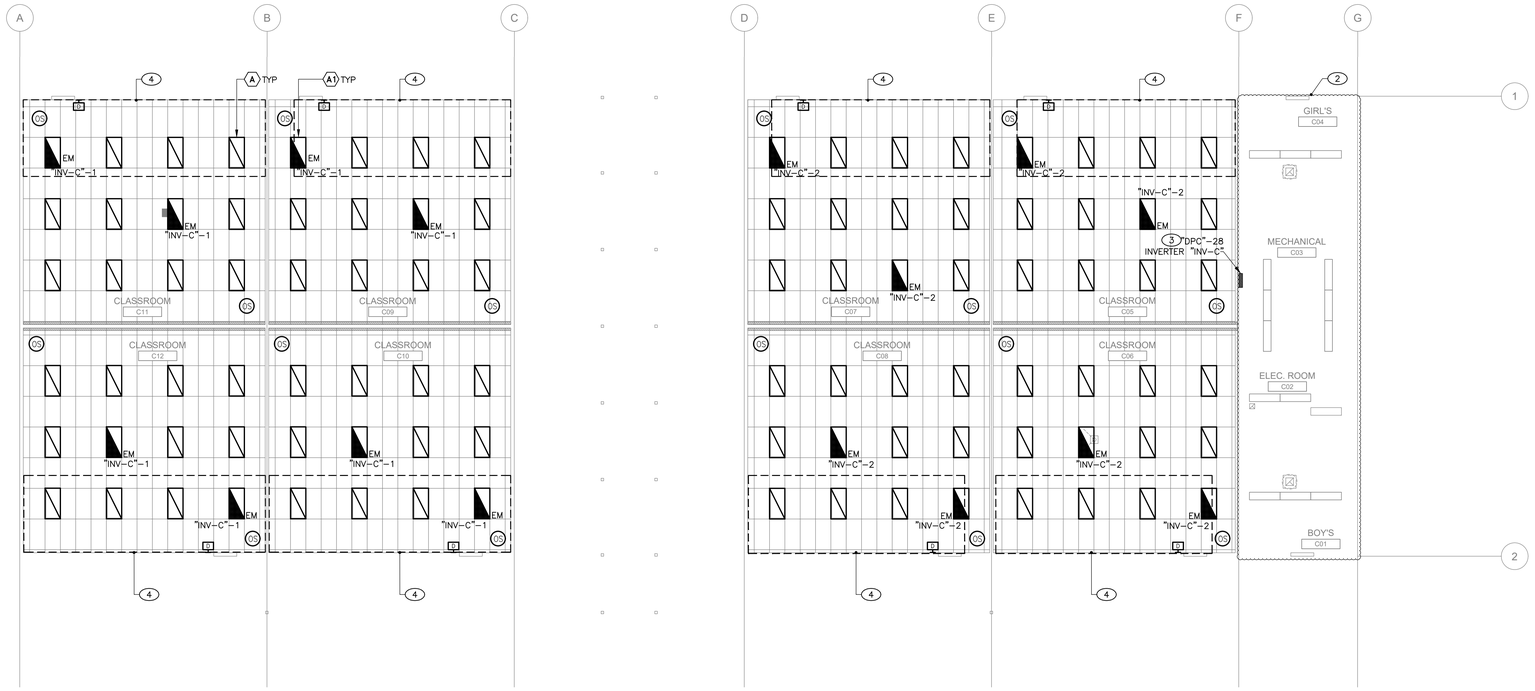


DEMO LIGHTING PLAN - BUILDING C | 1

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, UNO RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO EXISTING UN-SWITCHED CIRCUIT IN THE AREA.
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NEW LIGHTING PLAN - BUILDING C | 2

1/8" = 1'-0"

GENERAL NOTES

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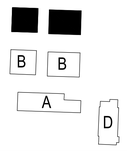
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○ CONSTRUCTION	

KEY PLAN



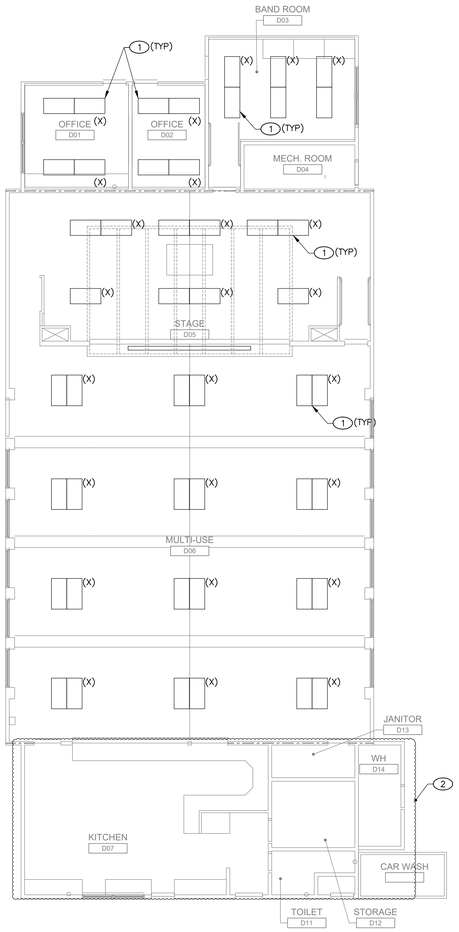
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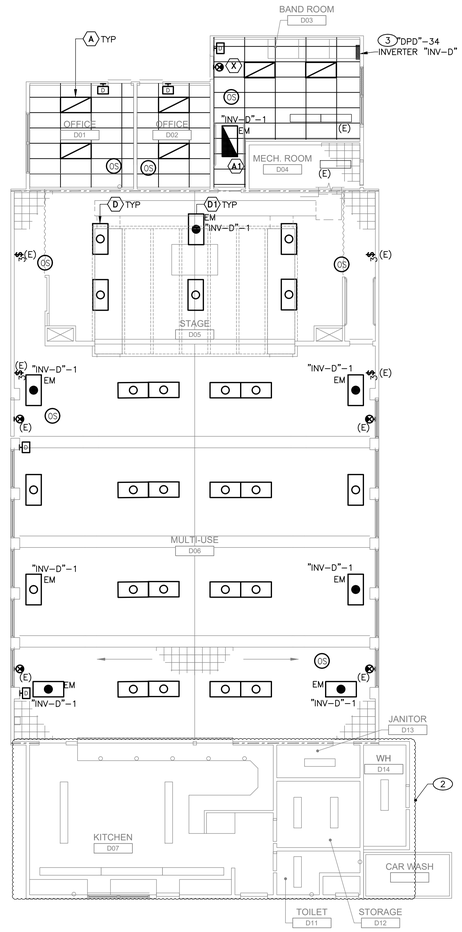
LIGHTING PLANS - BUILDING C

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	E2.12
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KT / CD	



DEMO LIGHTING PLAN - BUILDING D | 2

1/8" = 1'-0"



NEW 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, UNO RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO EXISTING UN-SWITCHED CIRCUIT IN THE AREA.
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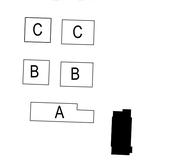
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NO.	REMARKS	DATE

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○ DSA BACK CHECK	
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



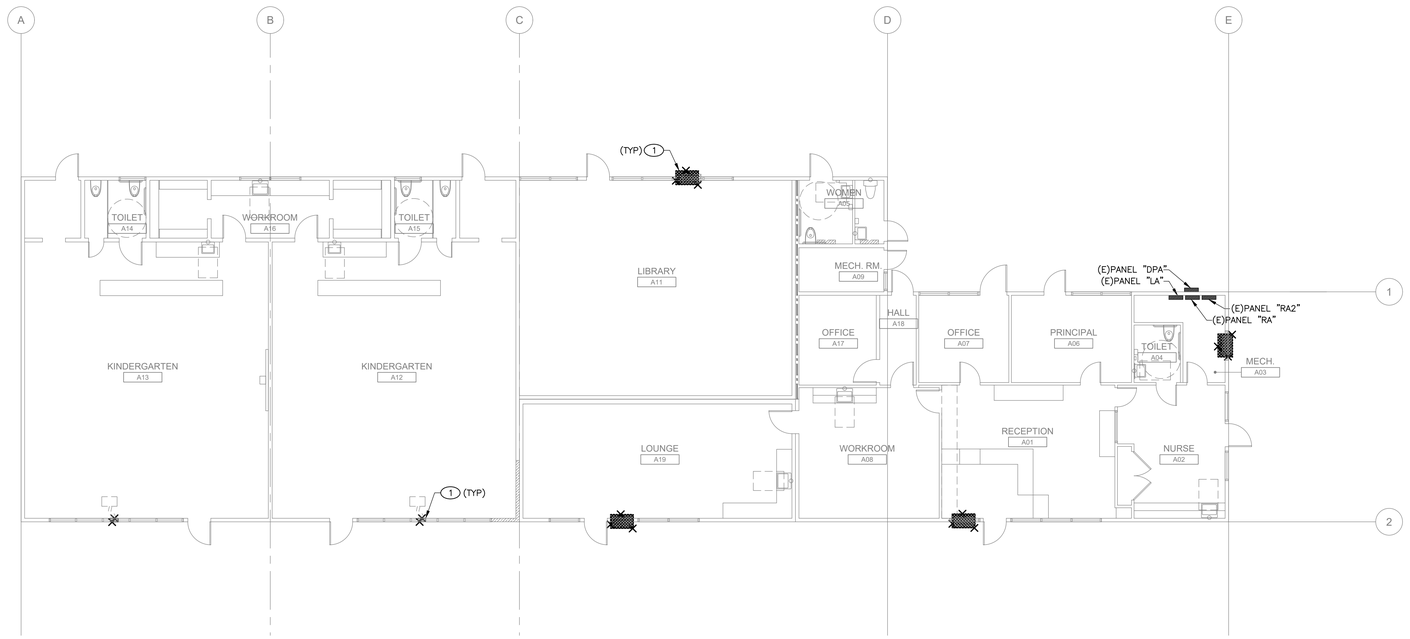
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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SAN JOSE, CA 95116

LIGHTING PLANS - BUILDING D

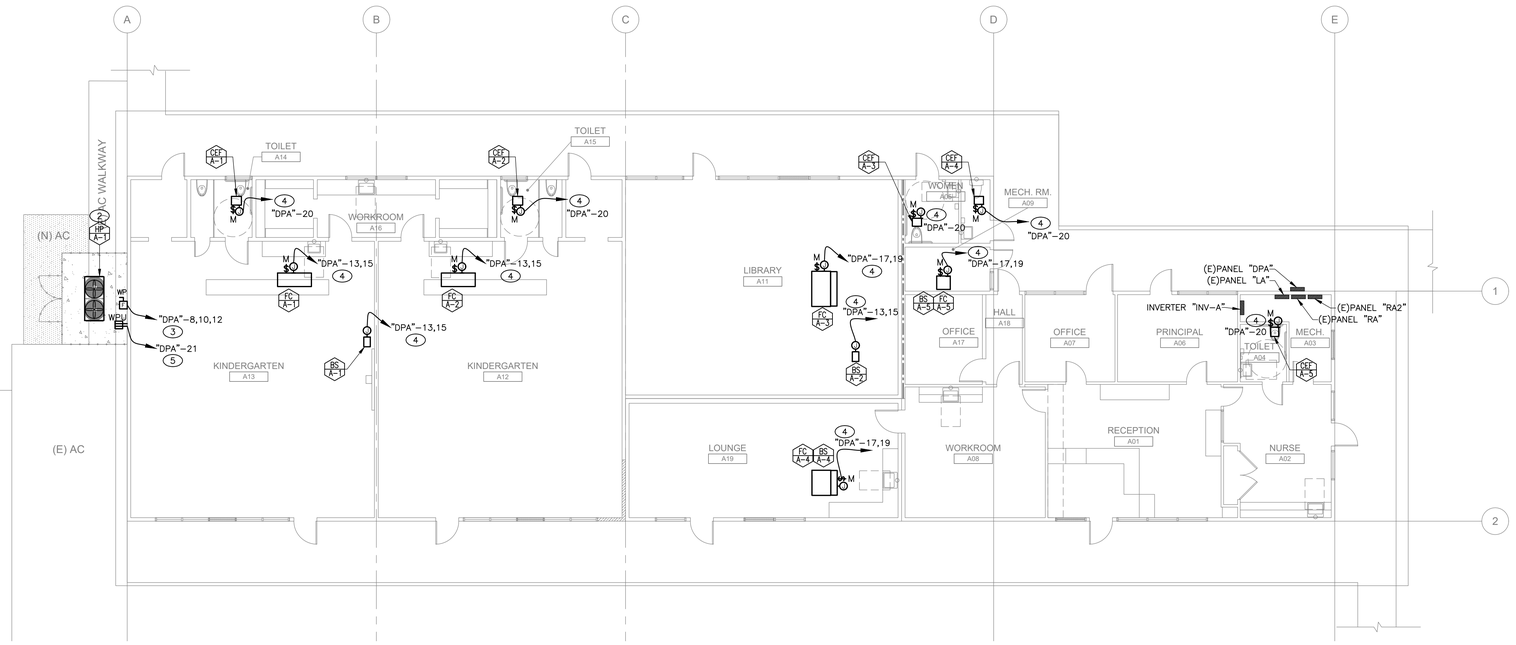
Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	E2.13
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DEMO ELECTRICAL POWER PLAN - BUILDING A

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.

GENERAL NOTES

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

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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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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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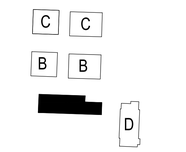
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

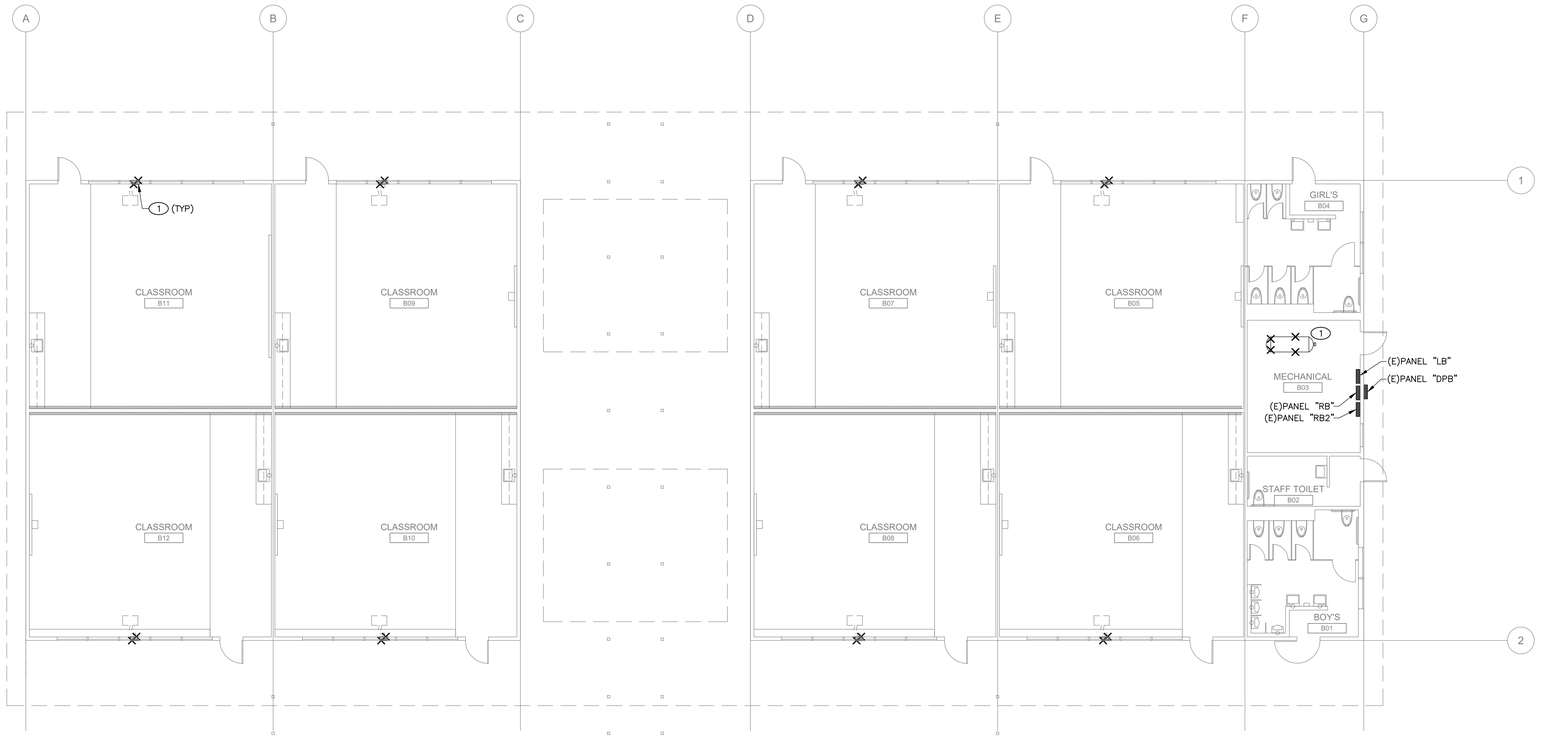
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

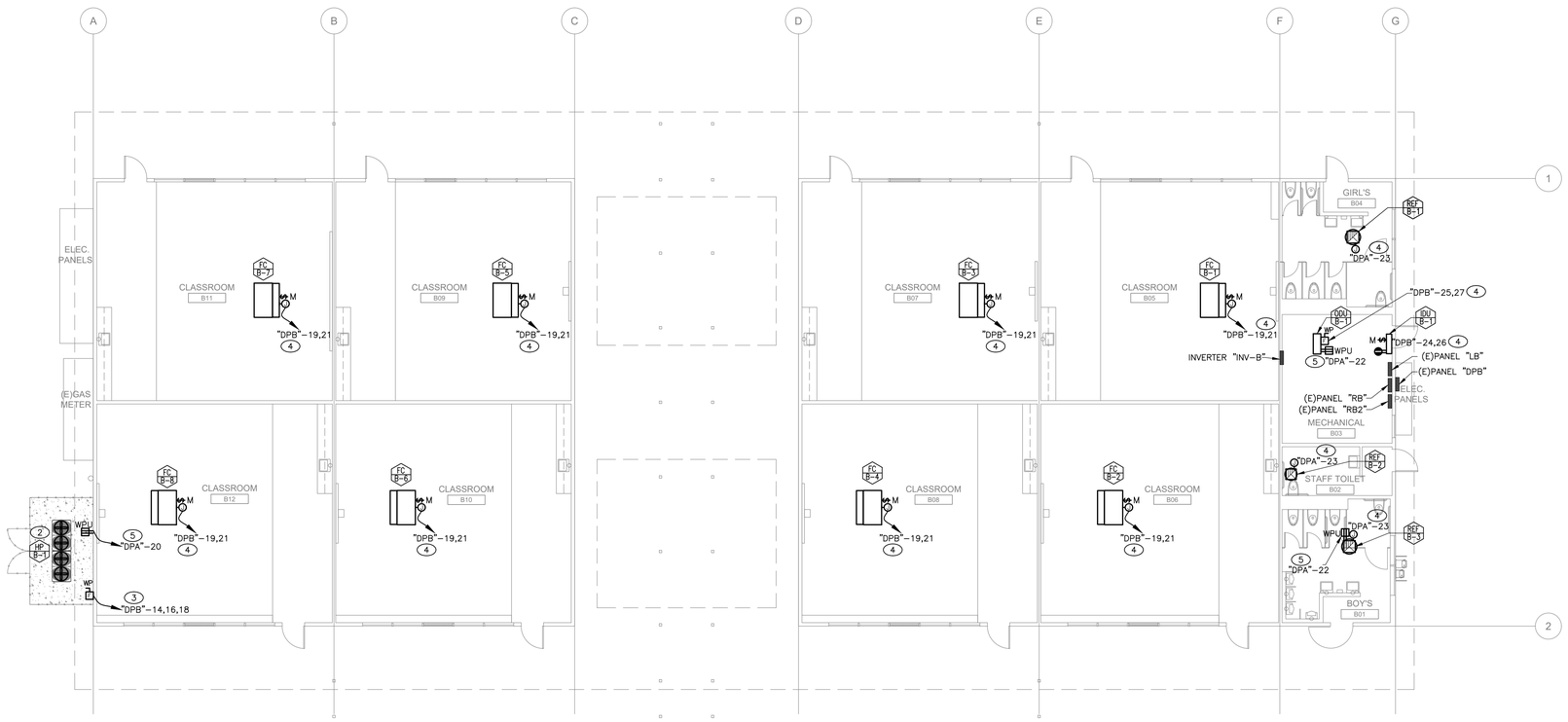
ELECTRICAL POWER PLAN BUILDING A

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	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"

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2. HP/B-1: 208V/3PH, 95.6 MCA, 100 MOCP. PROVIDE 100AF/100AS/3P FUSED DISCONNECT SWITCH FOR HP.
3. PROVIDE 1 1/2"C – 3#1 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.

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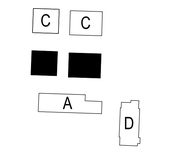
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



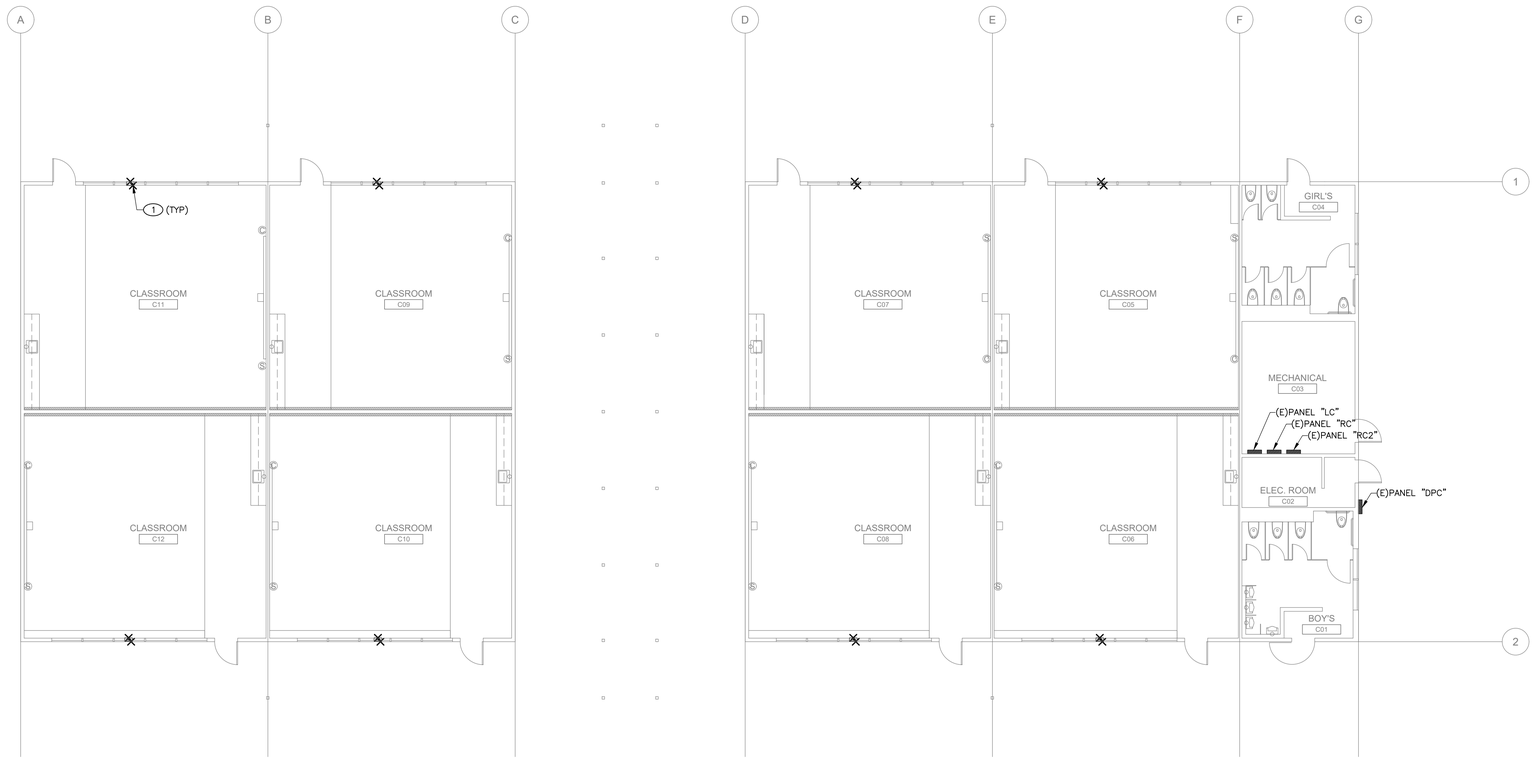
ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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1970 CINDERELLA LN.,
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ELECTRICAL POWER PLAN BUILDING B

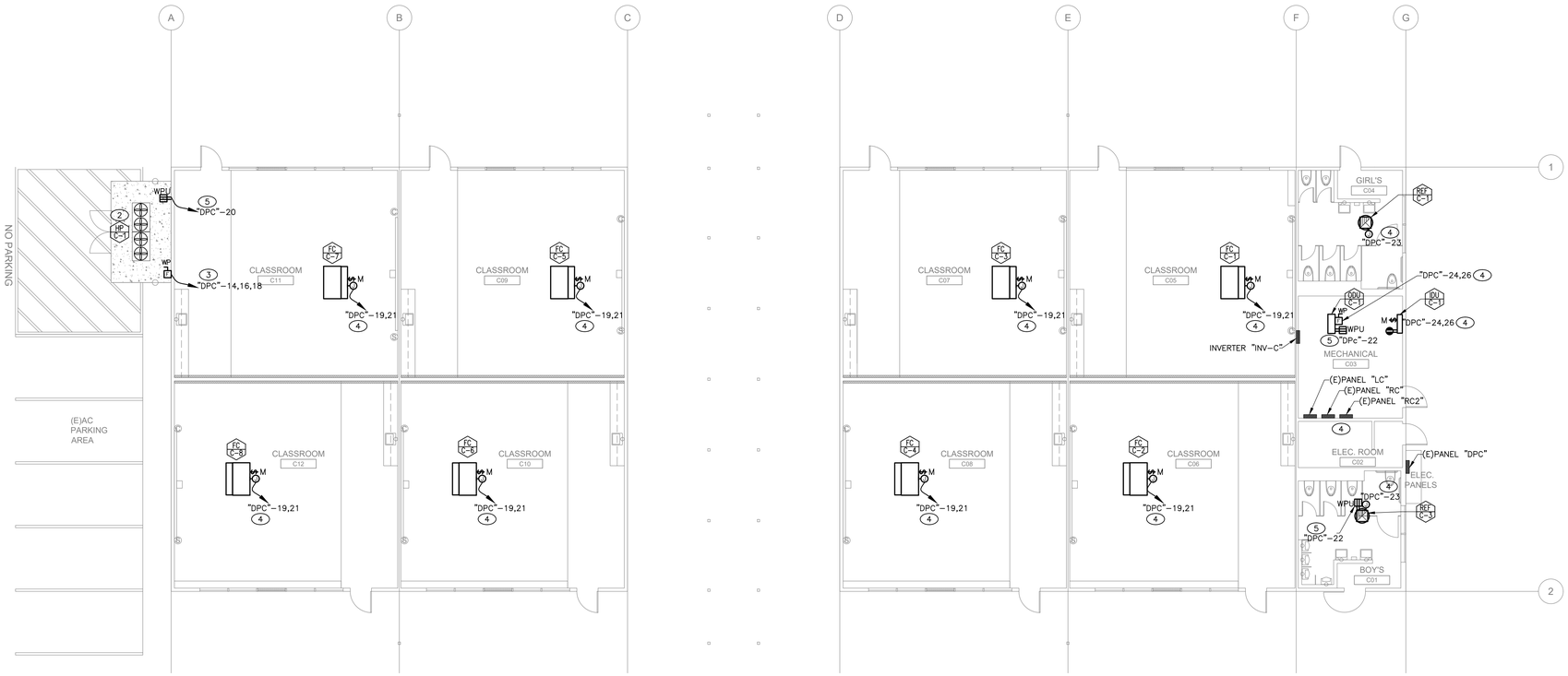
Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	E3.11
Drawn: KT	Checked: CD



DEMO ELECTRICAL POWER PLAN - BUILDING C

1

1/8" = 1'-0"



ELECTRICAL POWER PLAN - BUILDING C

2

1/8" = 1'-0"

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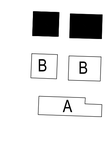
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



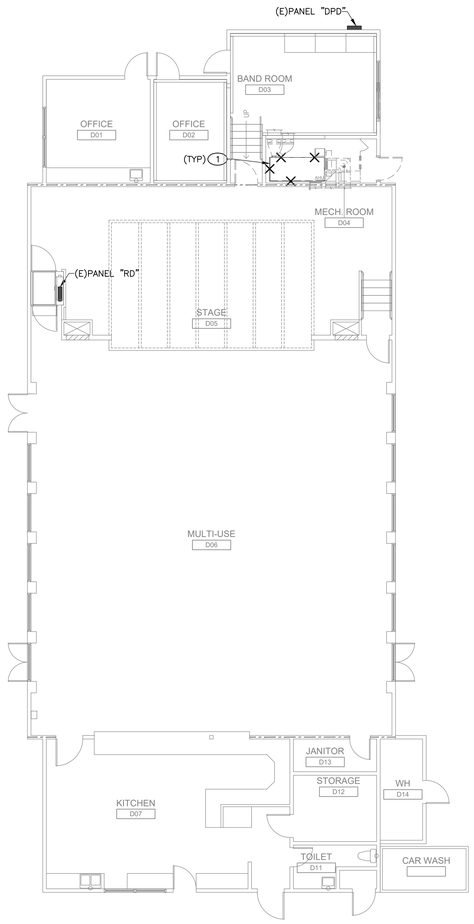
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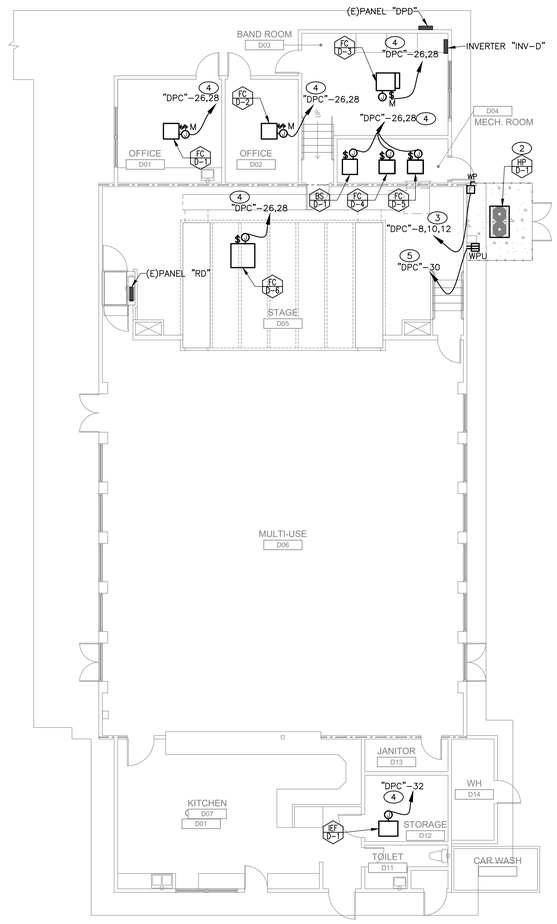
ELECTRICAL POWER PLAN BUILDING C

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	E3.12
Drawn / Checked	
KT / CD	



DEMO ELECTRICAL POWER PLAN - BUILDING D | 2

1/8" = 1'-0"



ELECTRICAL POWER PLAN - BUILDING D | 1

1/8" = 1'-0"

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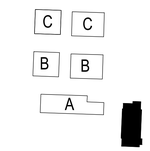
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

	DATE
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○ DSA BACK CHECK	
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

ELECTRICAL POWER PLAN - BUILDING D

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	E3.13
Drawn / Checked	
KT / CD	

EXISTING ELECTRICAL SERVICE LOAD CALCULATION

EXISTING MAXIMUM PEAK DEMAND LOAD FOR THE MONTH OF 10/22/2022

(SOURCE: PG&E PREVIOUS 12 MONTHS DATA)		105.0 KVA
PLUS 25% OF EXISTING CONNECTED LOAD		26.3 KVA
TOTAL EXISTING CONNECTED LOAD	=	131.3 KVA
REMOVED EXISTING LOAD		
-	0.0	KVA
-	0.00	KVA
TOTAL LOAD REMOVED	= 0.0	KVA
TOTAL EXISTING LOAD MINUS REMOVED LOAD	=	131.3 KVA
ADD NEW LOAD		
HVAC LOAD		121.2 KVA
LIGHTING		8.0 KVA
25% OF LARGEST NEW MOTOR= 0.0 KVA @ 25% =		0.0 KVA
TOTAL ADDED LOAD	=	129.2 KVA
EXISTING AND ADDED TOTAL SERVICE LOAD	=	260.5 kvA

260.5 KVA @ 120/208 VOLT , 3 PHASE = 724 AMPERES

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

(E) PANEL "DPC"

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

10000 KAIC Rating
SURFACE Mounted
NEMA 3R Type
BLDG C Location

CKT.	BKR	DESCRIPTION	PHASE SUMMARY (WATTS) A	B	C		DESCRIPTION	BKR	CKT.
1	[E] 150/3	(E) PANEL "LC"	5,000			5,000	(E) PANEL "RC"	[E] 225/3	2
3	-	-		5,000			-	-	4
5	-	-			5,000	5,000	-	-	6
7	[E] 225/3	(E) PANEL "RC2"	5,000			7,000	(E) HP-C1	[E] 90/3	8
9	-	-		5,000			-	-	10
11	-	-			5,000	7,000	-	-	12
13	[E] 20/2	(E) FC-C/1A THRU FC-C/8B	500			**9,184**	**(N) HP-C1**	**[N] 100/3**	14
15				500			**-**	**-**	16
17	[E] 20/1	(E) SF-C1,2,3			800	**9,184**	**-**	**-**	18
19	**[1][N]20/2**	**(N) FC**	**1,932**			**180**	**(N) RECPT**	**[1][N]20/1**	20
21	**-**	**-**		**1,932**			**(N) RECPT**	**[1][N]20/1**	22
23	**[1][N]20/1**	**(N) REF**			**1,000**		**(N) IDU/C-1**	**[1][N]20/2**	24
25	**[1][N]20/2**	**(N) ODU/C-1**	**666**			**666**	**-**	**-**	26
27	**-**	**-**		**666**			**INVERTER "INV-C"**	**[1][N]20/1**	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 35,128 | B 36,642 | C 33,650

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%	103,420	Watts
LARGEST MOTOR x 25%	2,296	Watts
TOTAL DEMAND LOADS	108,216	Watts
TOTAL DEMAND AMPS	301	AMPS

(E) PANEL "DPA"

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

10000 KAIC Rating
SURFACE Mounted
NEMA 3R Type
BLDG A Location

CKT.	BKR	DESCRIPTION	PHASE SUMMARY (WATTS) A	B	C		DESCRIPTION	BKR	CKT.
1	[E] 150/3	(E) PANEL "LA"	5,000			5,000	(E) PANEL "RA"	[E] 225/3	2
3	-	-		5,000			-	-	4
5	-	-			5,000	5,000	-	-	6
7	[E] 225/3	(E) PANEL "RA2"	5,000			**7,080**	**(N) HP-A1**	**[1][N] 80/3**	8
9	-	-		5,000			**-**	**-**	10
11	-	-			5,000	**7,080**	**-**	**-**	12
13	**[1][N] 25/2**	**(N) FC AND BS**	**1,099**			6,200	(E) HP-A1	[E] 80/3	14
15	-	-		**1,099**			-	-	16
17	**[1][N] 25/2**	**(N) FC AND BS**			**991**	6,200	-	-	18
19	**-**	**-**	**991**			**800**	**(N) CEF (A-1 - A-5)**	**[1][N] 20/1**	20
21	**[1][N] 20/1**	**(N) RCPT**		**180**			**INVERTER "INV-A"**	**[1][N] 20/1**	22
23	[E] 20/1	SPARE					SPARE	[E] 20/1	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 31,170 | B 31,559 | C 29,271

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%	90,000	Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	92,500	Watts
TOTAL DEMAND AMPS	257	AMPS

(E) PANEL "DPD"

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

10000 KAIC Rating
SURFACE Mounted
NEMA 3R Type
BLDG D Location

CKT.	BKR	DESCRIPTION	PHASE SUMMARY (WATTS) A	B	C		DESCRIPTION	BKR	CKT.
1	[E] 150/3	(E) PANEL "LC"	5,000			5,000	(E) PANEL "RD2"	[E] 225/3	2
3	-	-		5,000			-	-	4
5	-	-			5,000	5,000	-	-	6
7	[E] 225/3	(E) PANEL "RD"	5,000			**5,274**	**(N) HP-D1**	**[N] 60/3**	8
9	-	-		5,000			**-**	**-**	10
11	-	-			5,000	**5,274**	**-**	**-**	12
13	[E] 20/2	(E) FC-D1,2,3	500			1,000	(E) F-D1	[E] 15/3	14
15	-	-		500			-	-	16
17	[E] 20/1	(E) SF-D1			115	1,000	-	-	18
19	[E] 50/3	(E) CU-D1	5,000			1,000	(E) F-D2	[E] 15/3	20
21	-	-		5,000			-	-	22
23	-	-			5,000	1,000	-	-	24
25	[E] 50/3	(E) CU-D2	5,000			**1,706**	**(N) FC & BS**	**[1][N]20/2**	26
27	-	-		5,000			**-**	**-**	28
29	-	-			5,000	**180**	**(N) RECPT**	**[1][N]20/1**	30
31	[E] 40/2	(E) HP-D1	3,000			**560**	**(N) IEF**	**[1][N]20/1**	32
33	-	-		3,000			**INVERTER "INV-D"**	**[1][N]20/1**	34
35	[E] 20/1	(E) RPS-D			200		SPARE	[E] 20/1	36
37	[E] 20/1	SPARE					SPARE	[E] 20/1	38
39	[E] 20/1	SPARE					SPARE	[E] 20/1	40
41	[E] 20/1	SPARE					SPARE	[E] 20/1	42

PHASE TOTALS: A 38,040 | B 39,480 | C 32,769

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%	108,289	Watts
LARGEST MOTOR x 25%	1,319	Watts
TOTAL DEMAND LOADS	112,108	Watts
TOTAL DEMAND AMPS	311	AMPS

(E) PANEL "DPB"

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

10000 KAIC Rating
SURFACE Mounted
NEMA 3R Type
BLDG B Location

CKT.	BKR	DESCRIPTION	PHASE SUMMARY (WATTS) A	B	C		DESCRIPTION	BKR	CKT.
1	[E] 150/3	(E) PANEL "LB"	5,000			5,000	(E) PANEL "BA"	[E] 225/3	2
3	-	-		5,000			-	-	4
5	-	-			5,000	5,000	-	-	6
7	[E] 225/3	(E) PANEL "RB"	5,000			7,000	(E) HP-B1	[E] 90/3	8
9	-	-		5,000			-	-	10
11	-	-			5,000	7,000	-	-	12
13	[E] 225/3	(E) FC-A/1A THRU FA-A11	5,000			**9,184**	**(N) HP-B1**	**[N] 100/3**	14
15	-	-		5,000			**-**	**-**	16
17	-	-			5,000	**9,184**	**-**	**-**	18
19	**[1][N]20/2**	**(N) FC**	**1,932**			**180**	**(N) RECPT**	**[1][N]20/1**	20
21	**-**	**-**		**1,932**			**(N) RECPT**	**[1][N]20/1**	22
23	**[1][N]20/1**	**(N) REF**			**1,000**		**(N) IDU/B-1**	**[1][N]20/2**	24
25	**[1][N]20/2**	**(N) ODU/B-1**	**666**			**666**	**-**	**-**	26
27	**-**	**-**		**666**			**INVERTER "INV-B"**	**[1][N]20/1**	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 39,628 | B 41,142 | C 37,850

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%	116,620	Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	119,120	Watts
TOTAL DEMAND AMPS	331	AMPS

INVERTER-C "INV-C"

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

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

CKT.	BKR	DESCRIPTION	LOAD (WATTS)
1	20/1	BUILDIN-C INTERIOR LIGHTS	328
2	20/1	BUILDIN-C INTERIOR LIGHTS	328
3	20/1	SPARE	
4	PFB	SPACE	
5	PFB	SPACE	
6	PFB	SPACE	
		LOAD TOTAL	656

DEMAND LOADS		
LIGHTING / CONTINUOUS L	820	Watts
RECEPTACLES / OTHER x		Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	820	Watts
TOTAL DEMAND AMPS	7	AMPS

INVERTER-A "INV-A"

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

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

CKT.	BKR	DESCRIPTION	LOAD (WATTS)
1	20/1	BUILDIN-A INTERIOR LIGHTS	328
2	20/1	BUILDIN-A INTERIOR LIGHTS	328
3	20/1	SPARE	
4	PFB	SPACE	
5	PFB	SPACE	
6	PFB	SPACE	
		LOAD TOTAL	656

DEMAND LOADS		
LIGHTING / CONTINUOUS L	820	Watts
RECEPTACLES / OTHER x		Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	820	Watts
TOTAL DEMAND AMPS	7	AMPS

INVERTER-D "INV-D"

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

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

CKT.	BKR	DESCRIPTION	LOAD (WATTS)
1	20/1	BUILDIN-D INTERIOR LIGHTS	454
2	20/1	SPARE	
3	20/1	SPARE	
4	PFB	SPACE	
5	PFB	SPACE	
6	PFB	SPACE	
		LOAD TOTAL	454

DEMAND LOADS		
LIGHTING / CONTINUOUS L	568	Watts
RECEPTACLES / OTHER x		Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	568	Watts
TOTAL DEMAND AMPS	5	AMPS

INVERTER-B "INV-B"

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

FEED FROM PANEL-DPB
10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	LOAD (WATTS)
1	20/1	BUILDIN-B INTERIOR LIGHTS	328
2	20/1	BUILDIN-B INTERIOR LIGHTS	328
3	20/1	SPARE	
4	PFB	SPACE	
5	PFB	SPACE	
6	PFB	SPACE	
		LOAD TOTAL	656

DEMAND LOADS		
LIGHTING / CONTINUOUS L	820	Watts
RECEPTACLES / OTHER x		Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	820	Watts
TOTAL DEMAND AMPS	7	AMPS

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Job #: 22-2198

ARCHITECT: LICENSED ARCHITECT — BRYAN P. WHITMORE — No. C 30345 — Ren. 9/30/23 — STATE OF CALIFORNIA

ENGINEER: 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
- ( ) BIDDING
- ( ) CONSTRUCTION

KEY PLAN

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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

ELECTRICAL PANEL SCHEDULES

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	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.
A2	FINELITE HRP-LED-WAV2X4-DCO-HO-3500K-120V-SC-C1	LED 3500K 90 CRI	120 / 41	RECESSED	SIMILAR TO TYPE "A" 2'X2'
A3	FINELITE HRP-LED-WAV2X4-DCO-HO-3500K-120V-SC-C1	LED 3500K 90 CRI	120 / 41	RECESSED	SIMILAR TO TYPE "A2" - INVERTER..
B	KENALL MLHA8-48-R-MW-PP-45L35K-DCC-DV-FS-9500	LED 3500K	120 / 51	SURFACE	LED SURFACE LIGHT FIXTURE. SEE 5/E5.12 FOR MOUNTING DETAIL.
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 LUMEN - INVERTER.
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.

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○ DSA BACK CHECK	
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

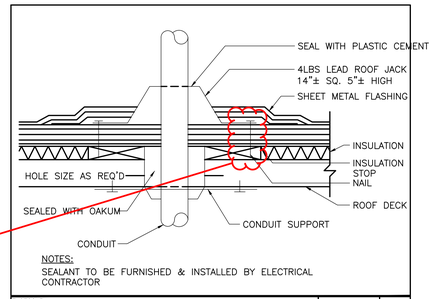
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

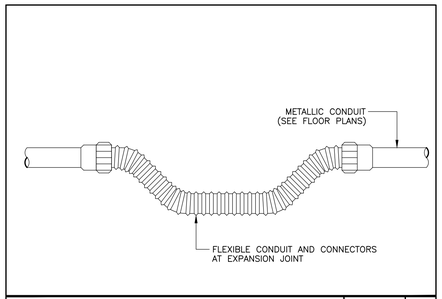
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

LIGHTING FIXTURE SCHEDULE

Date	Project Number
12/23/2022	22025
Application Number	**Drawing Number**
02-120630	E5.11
Drawn / Checked	
KT / CD	

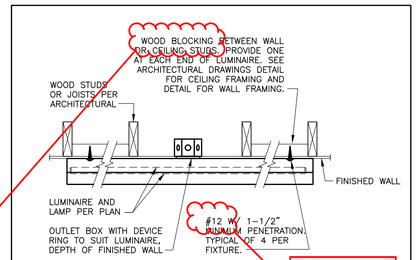


ROOF CONDUIT PENETRATION DETAIL | NTS | 4

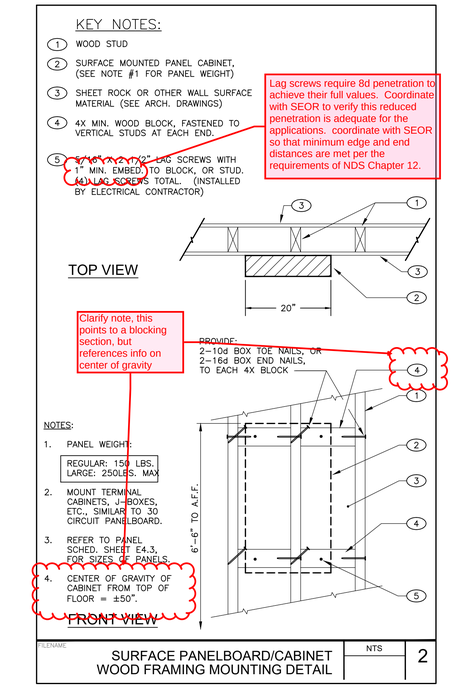


SEISMIC JOINT CONDUIT DETAIL | NTS | 1

define fastener info

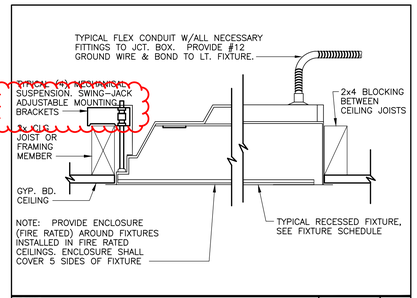


WALL/CEILING SURFACE LIGHT FIXTURE MOUNTING DETAIL FOR WOOD FRAMING | NTS | 5



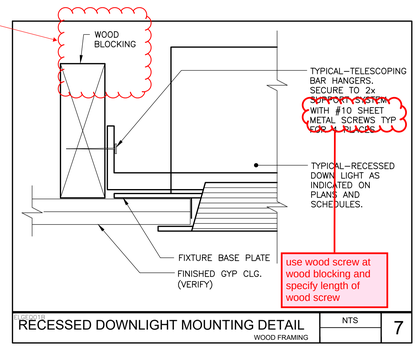
SURFACE PANELBOARD/CABINET WOOD FRAMING MOUNTING DETAIL | NTS | 2

provide mounting detail

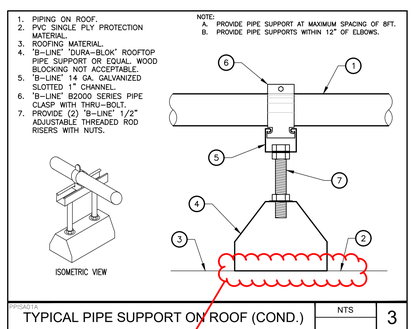


RECESSED FIXTURE MOUNTING DETAIL | NTS | 6

specify size, connection info, typ



RECESSED DOWNLIGHT MOUNTING DETAIL
WOOD FRAMING | NTS | 7



TYPICAL PIPE SUPPORT ON ROOF (COND.) | NTS | 3

how is bottom connected to roof framing? specify

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NO.	REMARKS	DATE

DRAWING STATUS

	DATE
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○ DSA BACK CHECK	
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN

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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

ELECTRICAL DETAILS

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	E5.12
Drawn / Checked	
KT / CD	

FIRE ALARM ABBREVIATIONS/SYMBOLS

SYMBOL	DESCRIPTIONS	SYMBOL	DESCRIPTIONS
AC	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.

MP ☐ MD ☐ PP ☐ E ☐ 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 – KINDERGARTEN-ADMINISTRATION BUILDING
FA3.11	FIRE ALARM FLOOR PLAN – CLASSROOM BUILDING B
FA3.12	FIRE ALARM FLOOR PLAN – CLASSROOM BUILDING C
FA3.13	FIRE ALARM FLOOR PLAN – MULTIPURPOSE BUILDING D
FA4.10	FIRE ALARM RISER DIAGRAM AND CALCULATIONS

FIRE ALARM DEVICE LEGEND (NEW DEVICES ONLY)

SYMBOL	QTY	NEW / EXISTING	MANUFACTURER	PART NO	DESCRIPTION	CSFM
FACU	1	EXISTING	GAMEWELL FCI	7100	FIRE ALARM CONTROL PANEL	7165-1703:0105
(H) A	22	NEW	GAMEWELL FCI	ATD-HL2F / B210LP	ADDRESSABLE HEAT DETECTOR	7270-1703:0115; 7300-1653:0109

FIRE ALARM CABLE SCHEDULE

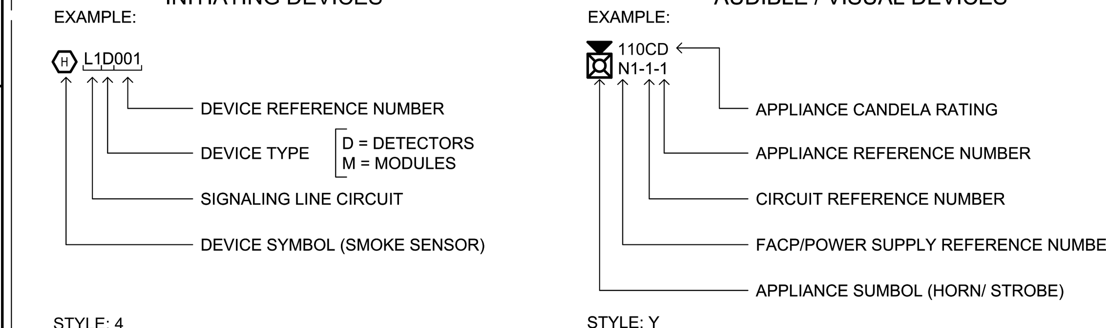
TYPE	DESCRIPTION		JACKET COLOR	SERVES	ENVIRONMENT USE	NOTES
A	2#16 UTP	FPLR, SOLID	RED/BLK	SLC INTELLIGENT LOOP	INTERIOR	
B	2#14 UTP	FPLR, SOLID	RED/BLK	NAC STROBE (VISUAL)	INTERIOR	
C	2#16 STP	FPLR, SOLID	RED/BLK	VOICE (SPEAKER)	INTERIOR	
D	2#16 UTP	FPLR, SOLID	RED/BLK	IDC CIRCUIT	INTERIOR	
E	2#16 UTP	FPLR, SOLID	RED/BLK	FAA RS485 COMM	INTERIOR	
P	2#14 UTP	FPLR, SOLID	RED/BLK	24VDC POWER	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 STP	WP#AQ225	RED/BLK	IDC CIRCUIT	EXTERIOR/UDGND	DIRECT BURIAL CABLE
EU	2#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

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



SCOPE OF WORK AND BUILDING INFORMATION

1. SCOPE OF THIS PROJECT IS TO INCORPORATE NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM AS PART OF THE NEW HVAC UPGRADES.

IN AREAS WHERE THE NEW INSTALLATION OF FIRE ALARM DEVICES, INFRASTRUCTURE (INCLUDING PATHWAY, DEVICE BOXES, ETC.) PROVIDE ALL NEW CABLING. CABLING SHALL BE INSTALLED TO MATCH EXISTING CONSTRUCTION IN CONDUIT, SURFACE RACEWAY, OR EXPOSED IN ACCESSIBLE CEILING SPACE.

OCCUPANCY CLASSIFICATION: 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

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Job #: 22-2198

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

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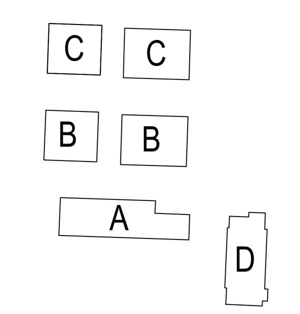
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

STATUS	DATE
● DSA PLAN CHECK	12/23/2022
○ DSA BACK CHECK	
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN



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

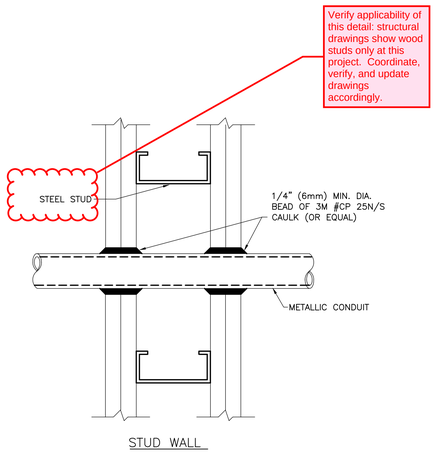
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

FIRE ALARM LEGEND, ABBREVIATIONS, AND NOTES

Date: 12/23/2022	Project Number: 22025
Application Number: 02-120630	Drawing Number: FA0.01
Drawn: KT / Checked: CD	

CONDUIT PENETRATION FIRE STOP DETAIL

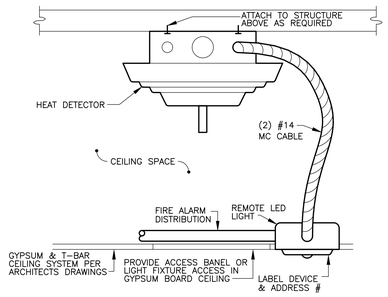


STUD WALL

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.

HEAT DETECTOR



HEAT DETECTOR WIRING

FIGURE 1:

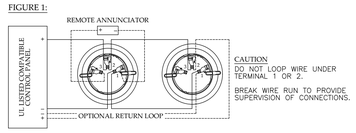
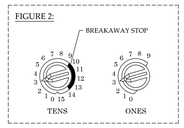
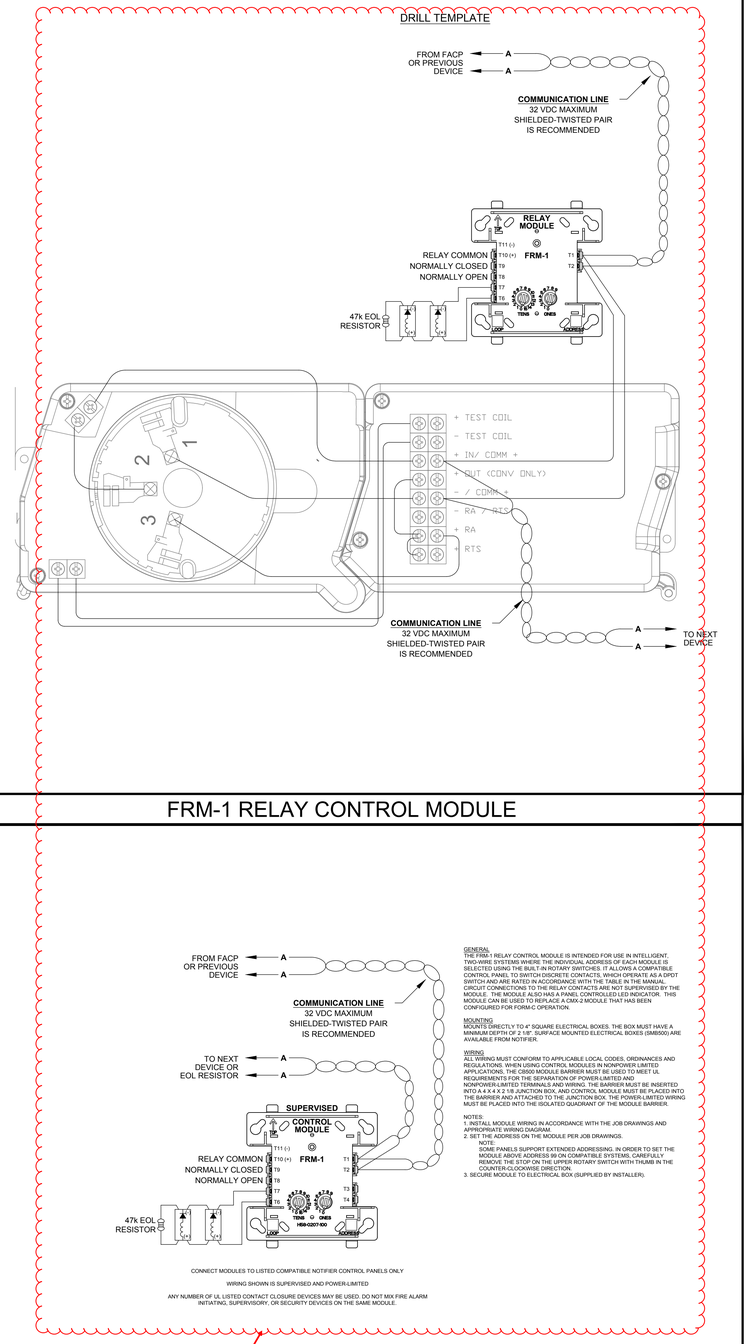


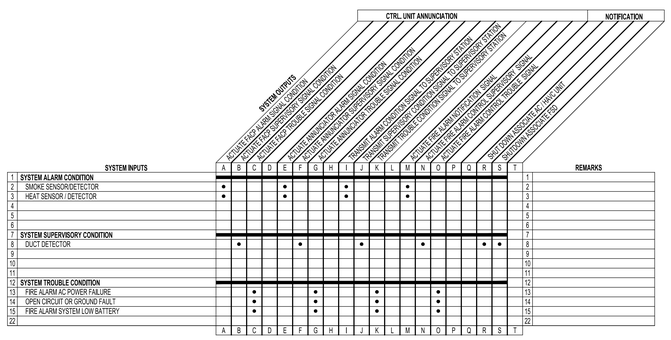
FIGURE 2:



DUCT SMOKE DETECTOR WITH FRM-1 RELAY MODULE



SEQUENCE OF OPERATION



	SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	REMARKS
1	SYSTEM ALARM CONDITION																					
2	SMOKE SENSOR/DETECTOR	•				•				•				•								
3	HEAT SENSOR / DETECTOR	•				•				•				•								
4																						
5																						
6																						
7	SYSTEM SUPERVISORY CONDITION																					
8	DUCT DETECTOR		•			•				•				•					•	•		
9																						
10																						
11																						
12	SYSTEM TROUBLE CONDITION																					
13	FIRE ALARM AC POWER FAILURE			•				•				•				•						
14	OPEN CIRCUIT OR GROUND FAULT			•				•				•				•						
15	FIRE ALARM SYSTEM LOW BATTERY			•				•				•				•						
22																						
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	

FRM-1 RELAY CONTROL MODULE

GENERAL
THE FRM-1 RELAY CONTROL MODULE IS INTENDED FOR USE IN INTELLIGENT, TWO-WIRE SYSTEMS WHERE THE INDIVIDUAL ADDRESS OF EACH MODULE IS SELECTED USING THE BUILT-IN ROTARY SWITCHES. IT ALLOWS A COMPATIBLE CONTROL PANEL TO SWITCH DISCRETE CONTACTS, WHICH OPERATE AS A DPDT SWITCH AND ARE RATED IN ACCORDANCE WITH THE TABLE IN THE MANUAL. CIRCUIT CONNECTIONS TO THE RELAY CONTACTS ARE NOT SUPERVISED BY THE MODULE . THE MODULE ALSO HAS A PANEL CONTROLLED LED INDICATOR. THIS DOES NOT CAN BE USED TO REPLACE A CMX-2 MODULE THAT HAS BEEN CONFIGURED FOR FORM-C OPERATION.

MOUNTING
MOUNTS DIRECTLY TO 4" SQUARE ELECTRICAL BOXES. THE BOX MUST HAVE A MINIMUM DEPTH OF 2 1/8". SURFACE MOUNTED ELECTRICAL BOXES (SMB500) ARE AVAILABLE FROM NOTIFIER.

WIRING
ALL WIRING MUST CONFORM TO APPLICABLE LOCAL CODES, ORDINANCES AND REGULATIONS. WHEN USING CONTROL MODULES IN NONPOWER-LIMITED APPLICATIONS, THE CB500 MODULE BARRIER MUST BE USED TO MEET UL REQUIREMENTS FOR THE SEPARATION OF POWER-LIMITED AND NONPOWER-LIMITED CIRCUITS. THE MODULE AND BARRIER MUST BE INSERTED INTO A 4 X 4 X 2 1/8 JUNCTION BOX, AND CONTROL MODULE MUST BE PLACED INTO THE BARRIER AND ATTACHED TO THE JUNCTION BOX. THE POWER-LIMITED WIRING MUST BE PLACED INTO THE ISOLATED QUADRANT OF THE MODULE BARRIER.

NOTES:
1. INSTALL MODULE WIRING IN ACCORDANCE WITH THE JOB DRAWINGS AND APPROPRIATE WIRING DIAGRAM.
2. SET THE ADDRESS ON THE MODULE PER JOB DRAWINGS.
   NOTE:
   SOME PANELS SUPPORT EXTENDED ADDRESSING. IN ORDER TO SET THE MODULE ABOVE ADDRESS 99 ON COMPATIBLE SYSTEMS, CAREFULLY REMOVE THE COVER ON THE UPPER ROTARY SWITCH WITH THUMB IN THE COUNTER-CLOCKWISE DIRECTION.
3. SECURE MODULE TO ELECTRICAL BOX (SUPPLIED BY INSTALLER).

CONNECT MODULES TO LISTED COMPATIBLE NOTIFIER CONTROL PANELS ONLY

WIRING SHOWN IS SUPERVISED AND POWER-LIMITED

ANY NUMBER OF UL LISTED CONTACT CLOSURE DEVICES MAY BE USED. DO NOT MIX FIRE ALARM INITIATING, SUPERVISORY, OR SECURITY DEVICES ON THE SAME MODULE.

Clarify where these devices are used.

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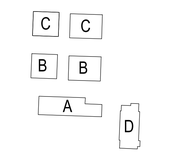
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NO.	REMARKS	DATE

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● DSA PLAN CHECK	12/23/2022
○ DSA BACK CHECK	
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○ CONSTRUCTION	

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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SAN JOSE, CA 95127

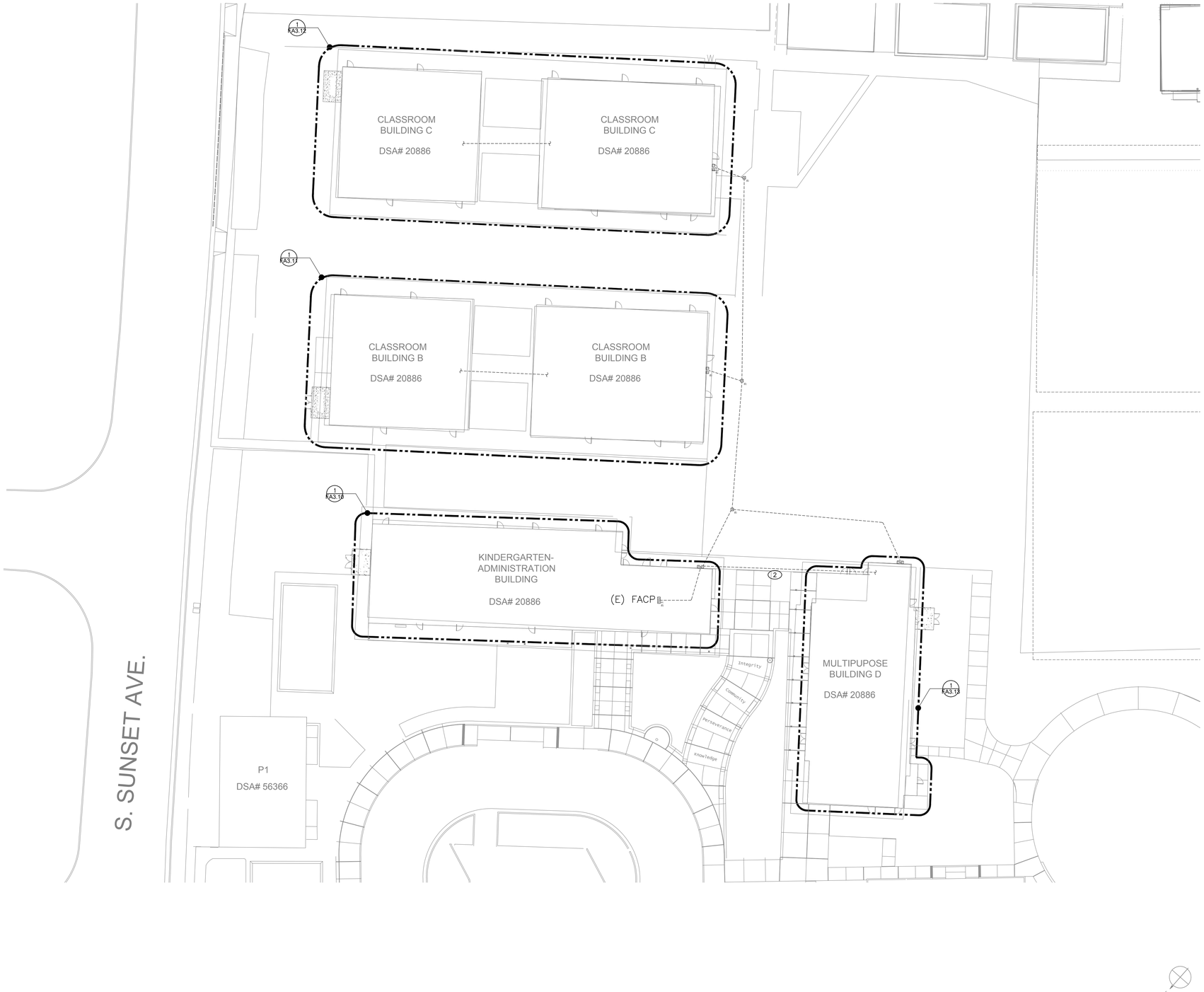
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

FIRE ALARM
DETAILS AND SEQUENCE OF OPERATIONS

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	FA0.02
Drawn / Checked	
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FIRE ALARM SITE PLAN 1 1" = 20'

KEY NOTES

1. PROVIDE 12"X12"6" WP PULL BOX UNDER CANOPY FOR CONDUIT CONNECTION.
2. (2)2"C UNDER CANOPY FOR FA AND EMS, TYP.

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.

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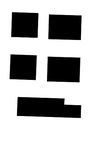
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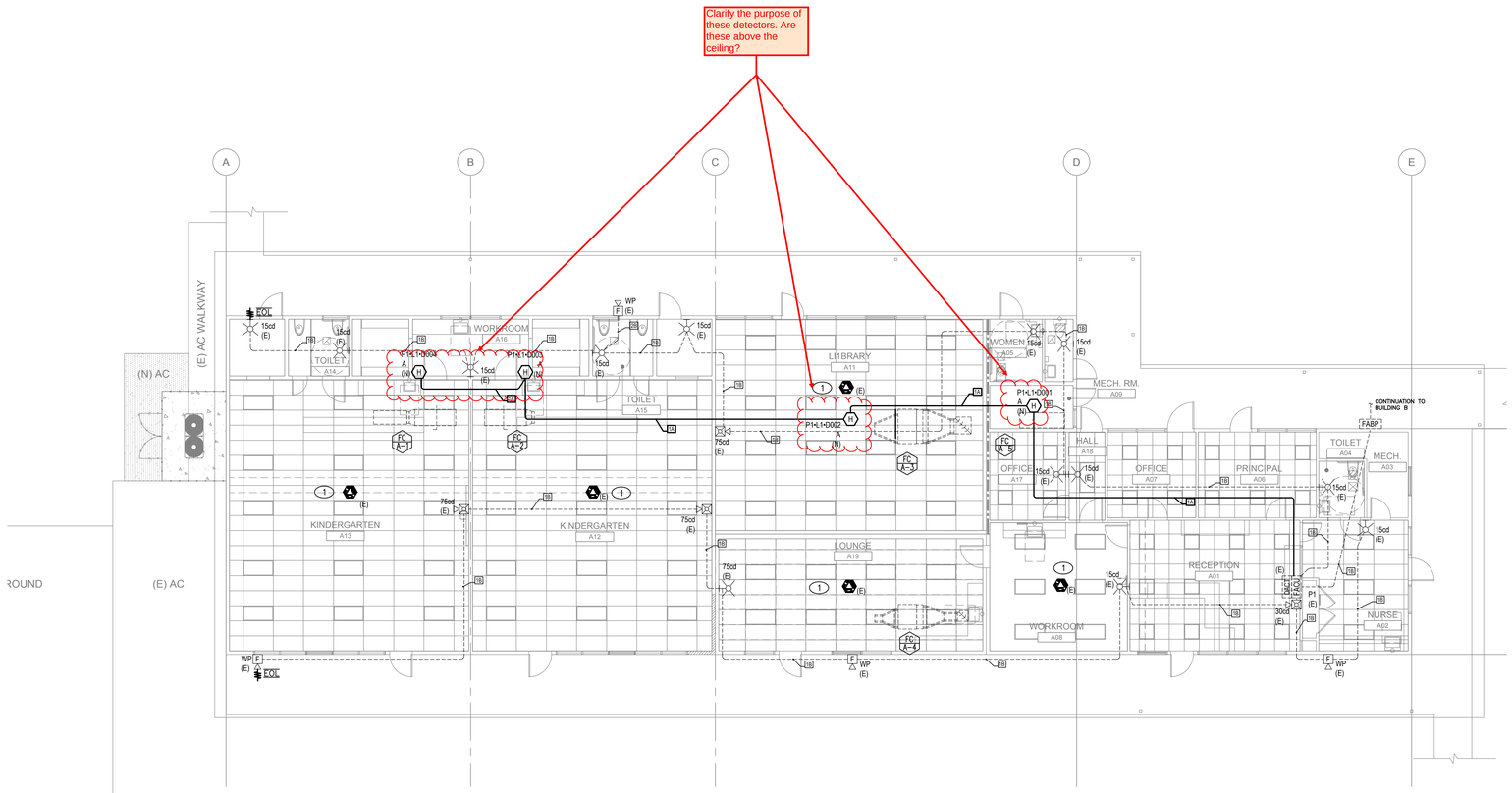
FIRE ALARM SITE PLAN

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	FA1.00
Drawn / Checked	
KT / CD	

KEY NOTES

(1) EXISTING CO DETECTOR WITH SOUNDER BASE (TYP). EXISTING CO DETECTOR INDEPENDENT FROM FIRE ALARM SYSTEM.

Clarify the purpose of these detectors. Are these above the ceiling?



DSA A#01-117268 shows fire alarm devices on the ceiling. Specify what happens to these devices when ceilings are demolished & replaced.

FIRE ALARM FLOOR PLAN - KINDERGARTEN-ADMINISTRATION BUILDING | **1** 1/8" = 1'-0"

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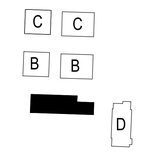
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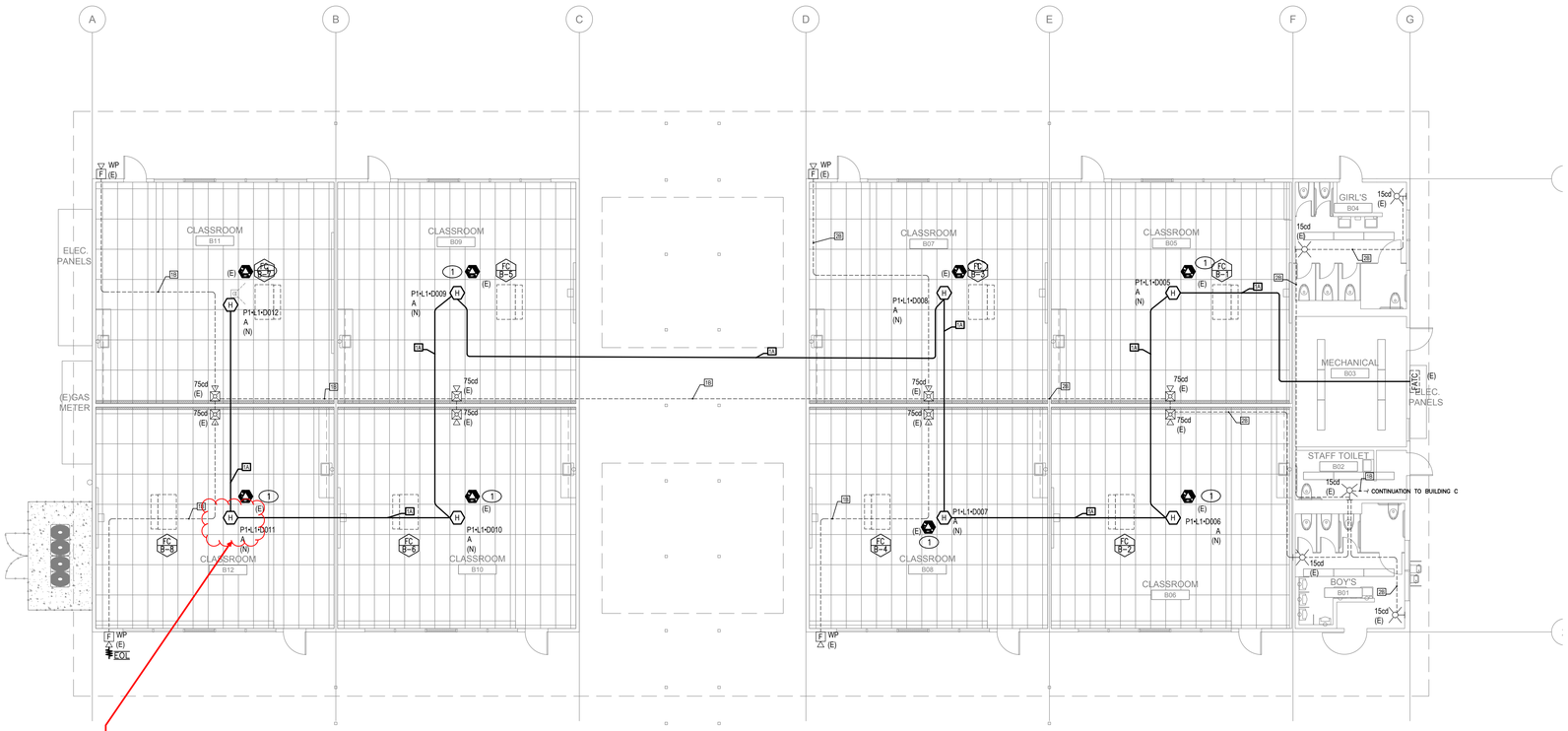
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FIRE ALARM FLOOR PLAN KINDER-ADMIN BLDG

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	FA3.10
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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 - BUILDING B | **1** 1/8" = 1'-0"

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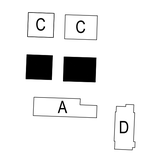
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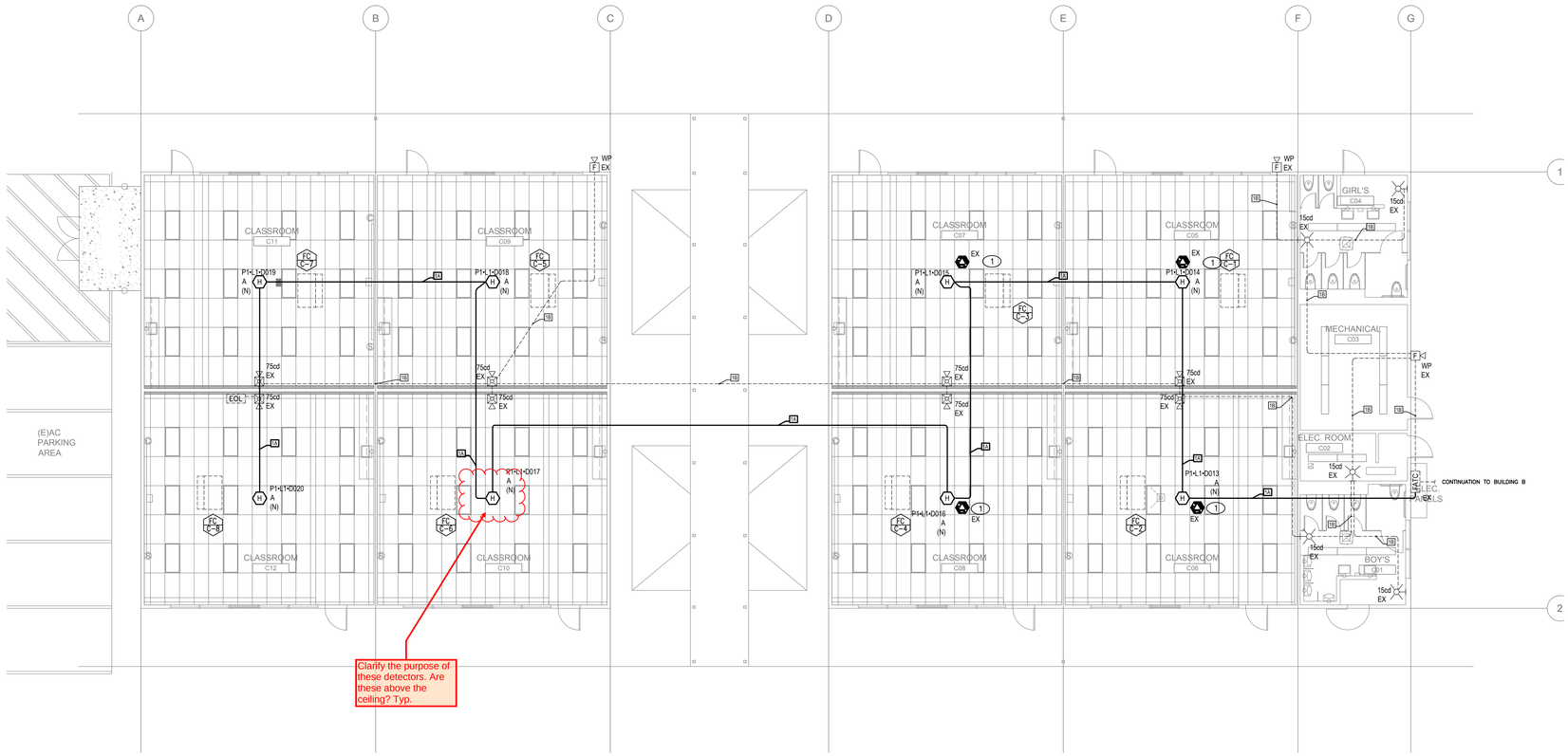
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FIRE ALARM FLOOR PLAN BUILDING B

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	FA3.11
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KEY NOTES

(1) EXISTING CO DETECTOR WITH SOUNDER BASE (TYP). EXISTING CO DETECTOR INDEPENDENT FROM FIRE ALARM SYSTEM.



FIRE ALARM FLOOR PLAN - BUILDING C | **1** 1/8" = 1'-0"

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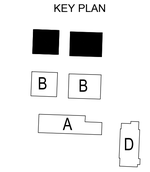
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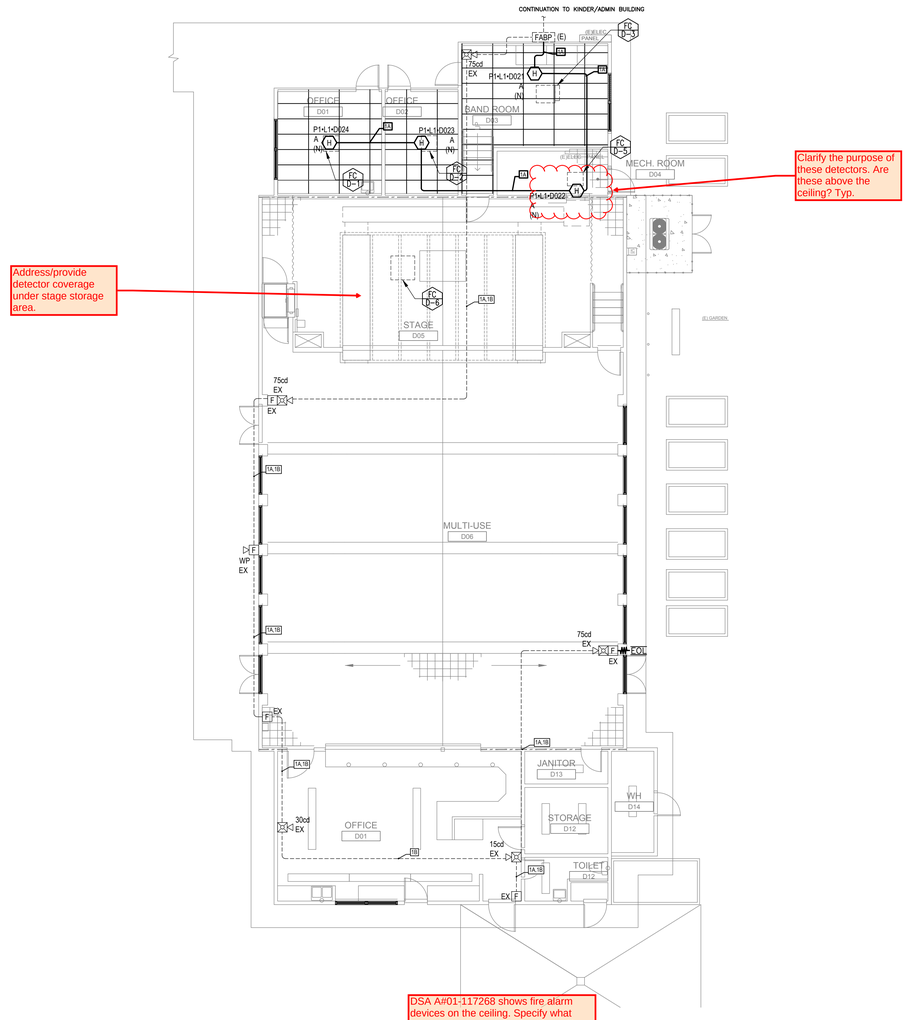
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CONSTRUCTION DOCUMENTS

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FIRE ALARM FLOOR PLAN BUILDING C

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	FA3.12
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KT / CD	



FIRE ALARM FLOOR PLAN - MULTIPURPOSE BUILDING D | **1** 1/8" = 1'-0"

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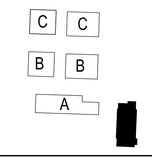
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NO.	REMARKS	DATE

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	DATE
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○ BIDDING	
○ CONSTRUCTION	

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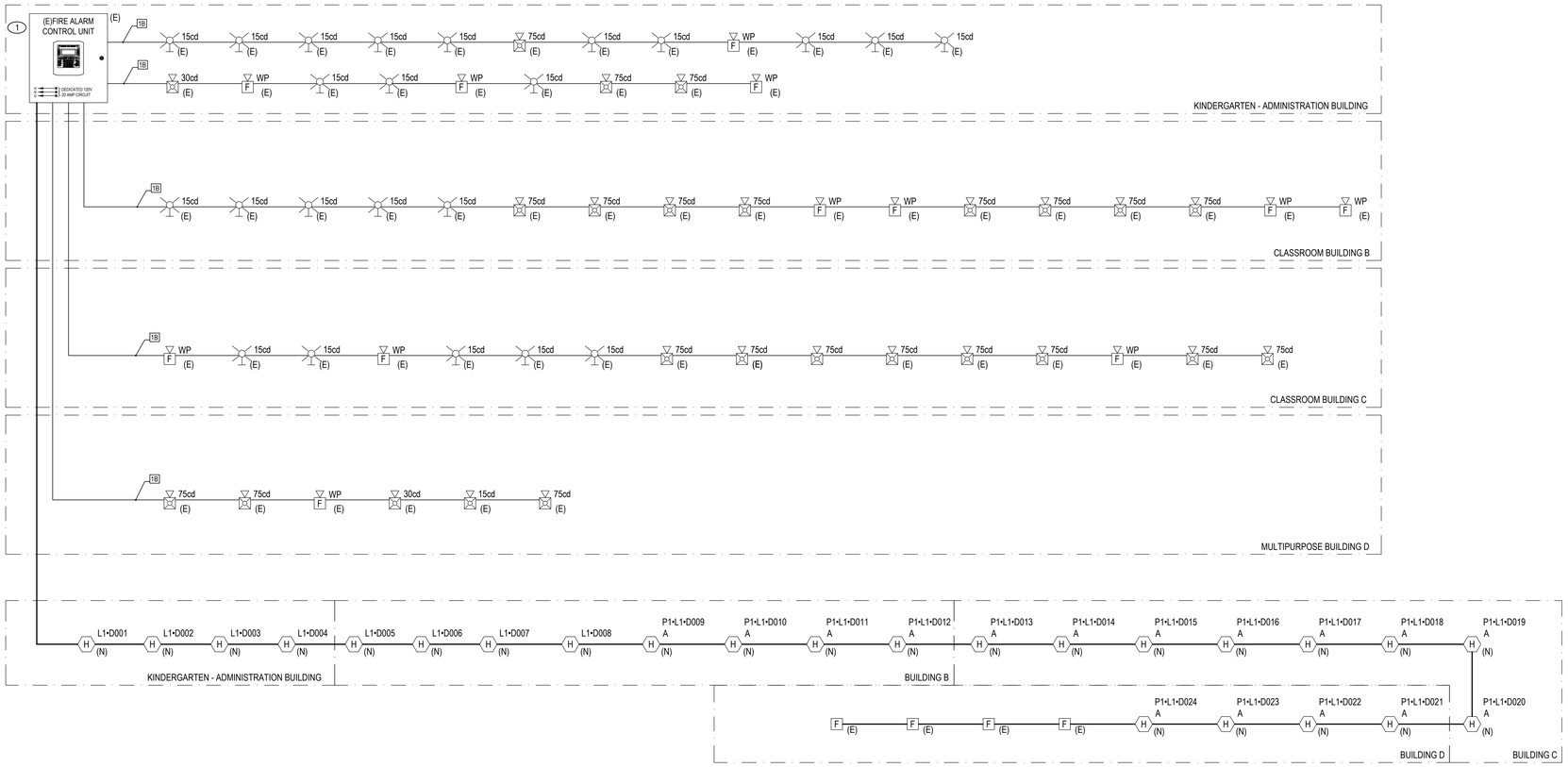
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FIRE ALARM FLOOR PLAN BUILDING D

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	FA3.13
Drawn / Checked	
KT / CD	



FIRE ALARM RISER DIAGRAM 1 NTS

Include new & existing equipment. See DSA Ar#01-117268 for existing battery requirements.

FACP **CONTROL PANEL BATTERY CALCULATION**

QTY <N>	QTY <E>	PRODUCT ID	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	0	I3	CONTROL PANEL	0.125000	0.125000	0.171000	0.171000
1	0	ILI-MB-E3	ANALOG MODULE	0.055000	0.055000	0.055000	0.055000
45	0	AST-HL2F	HEAT DETECTORS	0.000300	0.013500	0.006500	0.292500
0	0	DNR	DUCT SMOKE DETECTORS	0.000300	0.000000	0.006500	0.000000
75	0	ASD-PL2F	SMOKE DETECTORS	0.000300	0.022500	0.006500	0.487500
1	0	MS-7AF	PULL STATION	0.000300	0.000300	0.010000	0.010000
0	0	AMM-2F	MONITOR MODULE	0.000375	0.000000	0.000600	0.000000
2	0	AOM-2RF	RELAY CONTROL MODULE	0.000375	0.000750	0.000600	0.001200
			TOTAL STANDBY CURRENT		0.217050		
			X 24 HOURS STANDBY		5.209200		
			TOTAL ALARM CURRENT				1.017200
			5 MINUTES OF ALARM (X .83)				0.084428
			TOTAL BATTERY WITH 20% SPARE				6.352353
			BATTERY SUPPLIED				17 AH

PANEL P1 (7100-1D-PNL) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT (AMPS) CURRENT DRAW (A)	STANDBY CURRENT (AMPS) TOTAL (A)	SECONDARY ALARM CURRENT (AMPS) CURRENT DRAW (A)	SECONDARY ALARM CURRENT (AMPS) TOTAL
		1	7100 Main Board	Main board	0	**0**	0	**0**
CIRCUIT	**SYMBOL**	**QTY**	**PART NO**	**DESCRIPTION**	**CURRENT DRAW (A)**	**TOTAL (A)**	**CURRENT DRAW (A)**	**TOTAL (A)**
P1•L1	H A	24	ATD-HL2F w/B210LP	Intelligent Addressable 190°F (57°C) Thermal Detector w/ Flashscan, Plug-in Detector Base	0.0003	**0.0072**	0.0003	**0.0072**
				TOTAL STANDBY (A)		**0.0072**	TOTAL ALARM (A)	**0.0072**
				REQUIRED STANDBY TIME = 24 HOURS				
				REQUIRED ALARM TIME = 5 MINUTES				
SECONDARY STANDBY LOAD (A)			**0.0072**		24		**0.17**	
SECONDARY ALARM LOAD (A)			**0.0072**		0.08		**0**	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)						**0.17**		
DERATING FACTOR						1.2		
SECONDARY LOAD REQUIREMENTS (AMP HOURS)						**0.21**		
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

KEY NOTES

1. CO DETECTOR IS INDEPENDENT OF EXISTING FIRE ALARM SYSTEM AND NOT SHOWN ON FIRE RISER.

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Job #: 22-2198

ARCHITECT: LICENSED ARCHITECT — BRYAN P. WHITMORE — No. C 30345 — Ren. 9/30/23 — STATE OF CALIFORNIA

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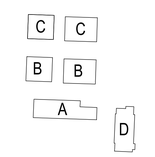
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

FIRE ALARM RISER DIAGRAM AND CALCULATIONS

Date 12/23/2022
Project Number 22025
Application Number 02-120630
Drawing Number FA4.10
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	--	1.5	-1.5	38.2	--	38.2
Space Cooling	9.7	8.9	0.8	--	--	--
Indoor Fans	31.5	11.8	19.7	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	1.7	1.7	0.0	35.5	35.5	0.0
Indoor Lighting	8.1	8.1	0.0	--	--	-->
Compliance Total	**51.0**	**32.0**	**19.0**	**73.7**	**35.5**	**38.2**
Receptacle	19.2	19.2	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	0.9	0.9	0.0	--	--	--
Process Motors	2.0	4.2	-2.2	--	--	--
TOTAL	**73.1**	**56.3**	**16.8**	**73.7**	**35.5**	**38.2**

C4. UNMET LOAD HOURS

Thermal Zone Name	Cooling Unmet Load Hour Limit for Thermal Zone	Proposed Cooling Unmet Load Hours	Heating Unmet Load Hour Limit for Thermal Zone	Proposed Heating Unmet Load Hours
1-Kindergarten A12	150	0	150	342
5-Library A11	150	0	150	560
6-Lounge A19	150	0	150	239.75
10-Admin	150	0	150	416.5
13-Kindergarten A13	150	0	150	517.5

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) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

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	13.62	6.30	7.32
Space Cooling	76.11	67.15	8.96
Indoor Fans	169.67	62.44	107.23
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	19.36	19.36	--
Indoor Lighting	40.91	40.91	--
ENERGY STANDARDS COMPLIANCE TOTAL	**319.67**	**196.16**	**123.51 (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	95.02	95.02	--
Process	--	--	--
Other Ltg	4.60	4.60	--
Process Motors	10.60	21.93	-11.33
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**429.89**	**317.71**	**112.2 (26.1%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

A. GENERAL INFORMATION

1	Project Location (city)	San Jose	8	Standards Version	Compliance2019
2	CA Zip Code	95116	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	5,685 ft^2	11	Building Orientation (deg)	(E) 135 deg
5	Total Unconditioned Floor Area	736 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 Mandatory Measures	*NRCC-LTS-E*
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 5110.11	*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*

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 A-1	VRF	1	25.6	NA	COP	3.30	228	EER	10.80	NA	N

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 A12-VRF	1	478	1520	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
6-Library A11-VRF	1	399	1624	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
7-Lounge A19-VRF	1	219	688	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
11-Admin-VRF	1	231	1520	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
14-Kindergarten A13-VRF	1	479	1520	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

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$_2$O)	Status[1]
Toilet A14 Zone22	2-Toilet A14 Zone	1	125	0.250	1.744	8.25	N
Toilet A15 Zone34	3-Toilet A15 Zone	1	125	0.250	1.744	8.25	N
Men A1065	7-Men A10	1	100	0.200	1.744	8.25	N
Women A0573	8-Women A05	1	75	0.200	2.325	11.00	N

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 Grade18	UndergroundFloor	6421	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	E
Minimum Roof20	Roof	6421	NA	0	18	U-Factor	0.048	Built-up roofing - 3/8 in. OSB - Oriented Strand Board - 1/2 in. Cellular polyisocyanurate (unfaced) - 3 in. R18 Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	A

[1] *Status: N - New, A – Altered, E – Existing*

G4. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	Overall U-factor	Status[1]
Metal Door8	0.700	E

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	598	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*

E. HERS VERIFICATION

This Section Does Not Apply

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]	180 ft^2	39 ft^2	21.5%
East-Facing[2]	1,738 ft^2	314 ft^2	18.1%
South-Facing[3]	480 ft^2	0 ft^2	00.0%
West-Facing[4]	683 ft^2	195 ft^2	28.6%
Total	**3,080 ft^2**	**548 ft^2**	**17.8%**
Roof	5,685 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]
Default Wall Prior to 1976	ExteriorWall	4282	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
Interior R-0 Wall11	InteriorWall	8786	Wood	0	NA	U-Factor	0.376	Gypsum Board - 1/2 in. Wood framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.	E

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 A12-VRF	1-Kindergarten A12	VRF	1	54.00	48.00	1520	NA	NA	0.750	bhp	☐	☐
6-Library A11-VRF	5-Library A11	VRF	1	60.00	54.00	1624	NA	NA	0.401	bhp	☐	☐
7-Lounge A19-VRF	6-Lounge A19	VRF	1	27.00	24.00	688	NA	NA	0.401	bhp	☐	☐
11-Admin-VRF	10-Admin	VRF	1	54.00	48.00	1520	NA	NA	0.750	bhp	☐	☐
14-Kindergarten A13-VRF	13-Kindergarten A13	VRF	1	54.00	48.00	1520	NA	NA	0.750	bhp	☐	☐

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

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$_2$O)	Status[1]
Toilet141	11-Toilet	1	100	0.200	1.744	8.25	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

H6. SYSTEM SPECIAL FEATURES

This Section Does Not Apply

H7. NONRESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation					
	Ventilation Function	# of people	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-Kindergarten A12	Education - Classrooms (ages 5-8)	31.48	478	0	1259	NA
5-Library A11	Education - Classrooms (ages 5-8)	26.25	399	0	1050	NA
6-Lounge A19	Education - Classrooms (ages 5-8)	14.40	219	0	576	NA
10-Admin	Office - Office space	7.70	231	0	1540	NA
13-Kindergarten A13	Education - Classrooms (ages 5-8)	31.50	479	0	1260	NA

H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION

This Section Does Not Apply

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ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER EVAN M. WHITMORE No. M 39462 REN. 6-30-23 MECHANICAL STATE OF CALIFORNIA

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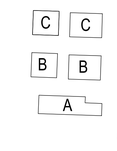
NO.	REMARKS	DATE

DRAWING STATUS

DATE

- ● DSA PLAN CHECK 12/23/2022
- ○ DSA BACK CHECK
- ○ BIDDING
- ○ CONSTRUCTION

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

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

Date 12/23/2022
Project Number 22025
Application Number 02-120630
Drawing Number T24.01
Drawn KT
Checked CD

Project Name:	Adelante Academy 2 - Bldng A	NRCC-PRF-01-E	Page 11 of 11
Project Address:	1970 Cinderella Lane San Jose 95116	Calculation Date/Time:	08:42, Thu, Dec 15, 2022
Input File Name:	Building-A-Adelante Academy 2.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: 2022-12-15
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: 2022-12-15	
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Electrical Engineer	License #: E16762
Responsible Mechanical Designer Name: Evan Cheung	Signature:	
Company: LP Consulting Engineers Inc		
Address: 1209 Pleasant Grove Blvd	Date Signed: 2022-12-15	
City/State/Zip: Roseville CA 95678		
Phone: 9167710778	Title: Mechanical Engineer	License #: M39462

Project Name:	Adelante Academy 2 - Bldng A	NRCC-PRF-01-E	Page 10 of 11
Project Address:	1970 Cinderella Lane San Jose 95116	Calculation Date/Time:	08:42, Thu, Dec 15, 2022
Input File Name:	Building-A-Adelante Academy 2.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

Project Name:	Adelante Academy 2 - Bldng A	NRCC-PRF-01-E	Page 9 of 11
Project Address:	1970 Cinderella Lane San Jose 95116	Calculation Date/Time:	08:42, Thu, Dec 15, 2022
Input File Name:	Building-A-Adelante Academy 2.cibd19x		

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

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 3 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

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/Sky lit 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:

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 2 of 6)**
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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		447.8	0		=	448	≥	612	0	=	612	DOES NOT COMPLY
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 table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Pass	Fail
B	B, HRP-394-LS2	No	No	51	Mfr. Spec	12	No	612	☐	☐
Total Designed Watts: UNCONDITIONED SPACES								612		

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 1 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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)	736
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	736
Total Area of Work (ft²)	0		736	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 6 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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: 2022-12-15
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: 2022-12-15
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

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
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
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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.

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
Indoor Lighting
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 4 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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
Toilet A14 Zone	Restrooms	0.65	70	45.5	No	No
Toilet A15 Zone	Restrooms	0.65	70	45.5	No	No
Workroom A16 Zone	Classroom, Lecture, or Training Vocational Area	0.7	263	184.1	No	No
Men A10	Restrooms	0.65	68	44.2	No	No
Women A05	Restrooms	0.65	40	26	No	No
Mechanical A09	Electrical Mechancial Telephone Room	0.4	75	30	No	No
Toilet	Restrooms	0.65	50	32.5	No	No
Mechanical Room	Electrical Mechancial Telephone Room	0.4	100	40	No	No
			TOTALS:	736	447.8	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.

DSA STAMP

STUDIO W ARCHITECTS

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1930 H St.
Sacramento, California 95811
[T] 916.254.5600
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LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2198

ARCHITECT
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA

ENGINEER
REGISTERED PROFESSIONAL ENGINEER EVAN H. WING CHEUNG No. M 39462 REN. 6-30-23 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. 2022.

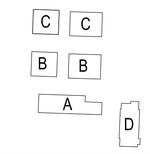
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TITLE 24 CALCULATIONS

Date 12/23/2022
Project Number 22025
Application Number 02-120630
Drawing Number 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:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 3 of 6)**
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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:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 2 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 1 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 6 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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: 2022-12-15
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: 2022-12-15
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:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 5 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 4 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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
Sign Lighting
NRCC-LTS-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 3 of 3)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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: 2022-12-15
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

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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: 2022-12-15
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:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 2 of 3)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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:	Adelante Academy 2 - Bldng A	**Report Page:**	**(Page 1 of 3)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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	OR	05	OR	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.

DSA STAMP

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Job #: 22-2198

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER EVAN M. WHITMORE M 39462 REN. 6-30-23 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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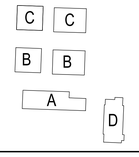
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TITLE 24 CALCULATIONS

Date	Project Number
12/23/2022	22025
Application Number	**Drawing Number**
02-120630	T24.03
Drawn / **Checked**	
KT / CD	

Project Name:	Adelante Academy 2 - Bldg B	NRCC-PRF-01-E	Page 3 of 12
Project Address:	1970 Cinderella Lane San Jose 95116	Calculation Date/Time:	15:10, Thu, Dec 15, 2022
Input File Name:	Building-B -Adelante Academy 2.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	--	6.6	-6.6	62.0	--	62.0
Space Cooling	16.8	11.1	5.7	--	--	--
Indoor Fans	50.5	14.1	36.4	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	0.0	0.0	--	57.6	57.6	0.0
Indoor Lighting	11.3	11.3	0.0	--	--	-->
Compliance Total	**78.6**	**43.1**	**35.5**	**119.6**	**57.6**	**62.0**
Receptacle	22.7	22.7	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	0.9	0.9	0.0	--	--	--
Process Motors	1.6	2.8	-1.2	--	--	--
TOTAL	**103.8**	**69.5**	**34.3**	**119.6**	**57.6**	**62.0**

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) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

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

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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	15.65	20.16	-4.51
Space Cooling	89.52	63.95	25.57
Indoor Fans	191.81	53.00	138.81
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	12.98	12.98	--
Indoor Lighting	40.31	40.31	--
ENERGY STANDARDS COMPLIANCE TOTAL	**350.27**	**190.40**	**159.87 (45.6%)**

[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	79.73	79.73	--
Process	--	--	--
Other Ltg	3.07	3.07	--
Process Motors	5.87	10.60	-4.73
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**438.94**	**283.80**	**155.1 (35.3%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

Project Name:	Adelante Academy 2 - Bldg B	NRCC-PRF-01-E	Page 1 of 12
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Input File Name:	Building-B -Adelante Academy 2.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	San Jose	8	Standards Version	Compliance2019
2	CA Zip Code	95116	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	8,022 ft^2	11	Building Orientation (deg)	(E) 135 deg
5	Total Unconditioned Floor Area	648 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*
				Outdoor Lighting §140.7	*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			*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*

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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]
IDU B-1 / ODU B-1	SZAC (Split3Phase)	1	0	0	NA	NA	9	SEER/EER	24.50/15.70	NoEconomizer	N
HP B-1	VRF	1	294	NA	COP	3.30	274	EER	11.00	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
		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]
IDU B-1 / ODU B-1	1	0	381	BrakeHorsePower	0.500	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
2-Classroom B11-VRF	1	367	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
3-Classroom B12-VRF	1	368	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
4-Classroom B10-VRF	1	368	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
5-Classroom B09-VRF	1	368	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
6-Classroom B08-VRF	1	368	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
7-Classroom B07-VRF	1	367	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
8-Classroom B05-VRF	1	368	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
9-Classroom B06-VRF	1	369	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

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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]
Minimum Roof17	Roof	8670	NA	0	15	U-Factor	0.052	Built-up roofing - 3/8 in. OSB - Oriented Strand Board - 1/2 in. Extruded Polystyrene - XPS - 3 in. R15.00 OSB - Oriented Strand Board - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	A

[1] *Status: N - New, A – Altered, E – Existing*

G4. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	Overall U-factor	Status[1]
Metal Door9	0.700	E

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	972	1.19	0.83	0.77	E
Residential Cooling	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	80	0.30	0.23	0.50	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:	Adelante Academy 2 - Bldg B	NRCC-PRF-01-E	Page 4 of 12
Project Address:	1970 Cinderella Lane San Jose 95116	Calculation Date/Time:	15:10, Thu, Dec 15, 2022
Input File Name:	Building-B -Adelante Academy 2.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]	780 ft^2	0 ft^2	00.0%
East-Facing[2]	1,290 ft^2	486 ft^2	37.7%
South-Facing[3]	1,200 ft^2	0 ft^2	00.0%
West-Facing[4]	1,290 ft^2	486 ft^2	37.7%
Total	**4,560 ft^2**	**972 ft^2**	**21.3%**
Roof	8,022 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]
Default Wall Prior to 1976	ExteriorWall	5290	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
Interior R-0 Wall12	InteriorWall	7110	Wood	0	NA	U-Factor	0.376	Gypsum Board - 1/2 in. Wood framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.	E
Slab On Grade15	UndergroundFloor	8670	NA	0	NA	F-Factor	0.73	Slab Type = LinheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	E

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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
8-Classroom B05-VRF	7-Classroom B05	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
9-Classroom B06-VRF	8-Classroom B06	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
12-Mechanical B03 Zone-Trm	12-Mechanical B03 Zone	Uncontrolled	1	NA	NA	381	NA	0.00	0.500	bhp	NA	☐

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

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Input File Name:	Building-B -Adelante Academy 2.cibd19x		

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 B11	Education - Classrooms (ages 5-8)	24.18	367	0	967	NA
2-Classroom B12	Education - Classrooms (ages 5-8)	24.20	368	0	968	NA
3-Classroom B10	Education - Classrooms (ages 5-8)	24.20	368	0	968	NA
4-Classroom B09	Education - Classrooms (ages 5-8)	24.20	368	0	968	NA
5-Classroom B08	Education - Classrooms (ages 5-8)	24.20	368	0	968	NA
6-Classroom B07	Education - Classrooms (ages 5-8)	24.15	367	0	966	NA
7-Classroom B05	Education - Classrooms (ages 5-8)	24.23	368	0	969	NA
8-Classroom B06	Education - Classrooms (ages 5-8)	24.27	369	0	971	NA
12-Mechanical B03 Zone	General - Unoccupied	0.42	0	0	277	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
				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 B11-VRF	1-Classroom B11	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
3-Classroom B12-VRF	2-Classroom B12	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
4-Classroom B10-VRF	3-Classroom B10	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
5-Classroom B09-VRF	4-Classroom B09	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
6-Classroom B08-VRF	5-Classroom B08	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
7-Classroom B07-VRF	6-Classroom B07	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐

Project Name:	Adelante Academy 2 - Bldg B	NRCC-PRF-01-E	Page 7 of 12
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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]

[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 Zone75	9-Toilet Zone	1	425	0.250	0.513	2.43	N
Toilet Zone88	10-Toilet Zone	1	150	0.250	1.453	6.87	N
Toilet Zone96	11-Toilet Zone	1	425	0.250	0.513	2.43	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

H6. SYSTEM SPECIAL FEATURES

1	2	3	4
System Name	Equipment Type	Window Interlocks per §140.4(n)	Other Special Features and Controls

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

DSA STAMP

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www.lpengineers.com
Job #: 22-2198

ARCHITECT
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA

ENGINEER
REGISTERED PROFESSIONAL ENGINEER EVAN M. WHITMORE No. M 39462 REN. 6-30-23 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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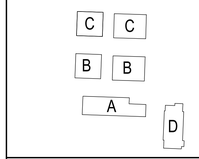
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TITLE 24 CALCULATIONS

Date 12/23/2022
Project Number 22025
Application Number 02-120630
Drawing Number T24.04
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: 2022-12-15
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:	Title:	License #:
Phone:		
Responsible Lighting Designer Name: Rami Zeidan	Signature: Rami Zeidan	
Company: LP Consulting Engineers Inc.	Date Signed: 2022-12-15	
Address: 1209 Pleasant Grove Blvd		
City/State/Zip: Roseville CA 95678	Title: Electrical Engineer	License #: E16762
Phone: 916-771-0778		
Responsible Mechanical Designer Name: Evan Cheung	Signature: E.Cheung	
Company: LP Consulting Engineers Inc	Date Signed: 2022-12-15	
Address: 1209 Pleasant Grove Blvd		
City/State/Zip: Roseville CA 95678		
Phone: 9167710778	Title: Mechanical Engineer	License #: M39462

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-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	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 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

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
Toilet Zone	Restrooms	0.65	274	178.1	No	No
Toilet Zone	Restrooms	0.65	108	70.2	No	No
Toilet Zone	Restrooms	0.65	266	172.9	No	No
	TOTALS:		648	421.2	See Tables J, or P for detail	

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		421.2	0		=	421	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.

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)	648
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	648
Total Area of Work (ft²)	0		648	

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: 2022-12-15
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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Responsible Designer Name: Rami Zeidan	Responsible Designer Signature: Rami Zeidan
Company: LP Consulting Engineers Inc.	Date Signed: 2022-12-15
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

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

STUDIO W ARCHITECTS

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

LP CONSULTING ENGINEERS
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p 916-771-0778
www.lpengineers.com
Job #: 22-2198

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER EVAN M. CHEUNG No. M 39462 REN. 6-30-23 MECHANICAL STATE OF CALIFORNIA

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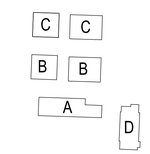
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TITLE 24 CALCULATIONS

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	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:	Adelante Academy 2 - Bldng B	Report Page:	(Page 3 of 6)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15 15:12:15

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng B	Report Page:	(Page 2 of 6)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15 15:12:15

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng B	Report Page:	(Page 1 of 6)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15 15:12:15

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng B	Report Page:	(Page 6 of 6)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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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: 2022-12-15
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

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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng B	Report Page:	(Page 5 of 6)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15 15:12:15

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng B	Report Page:	(Page 4 of 6)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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.

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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: 2022-12-15 15:12:15

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Adelante Academy 2 - Bldng B	Report Page:	(Page 3 of 3)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15
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: 2022-12-15
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: 2022-12-15 15:12:15

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
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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: 2022-12-15 15:12:15

STATE OF CALIFORNIA
Sign Lighting
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CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Adelante Academy 2 - Bldng B	Report Page:	(Page 1 of 3)
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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: 2022-12-15 15:12:15

DSA STAMP

STUDIO W ARCHITECTS

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www.lpengineers.com
Job #: 22-2198

ARCHITECT: LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA

ENGINEER: REGISTERED PROFESSIONAL ENGINEER EVAN M. WHITMORE M 39462 REN. 6-30-23 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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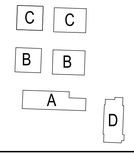
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TITLE 24 CALCULATIONS

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	T24.06
Drawn / Checked	
KT / CD	

Project Name:	Adelante Academy 2 - Bldng C	NRCC-PRF-01-E	Page 3 of 12
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Input File Name:	Building-C -Adelante Academy 2.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	--	6.7	-6.7	62.0	--	62.0
Space Cooling	16.8	11.3	5.5	--	--	--
Indoor Fans	50.5	14.1	36.4	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	0.0	0.0	--	57.6	57.6	0.0
Indoor Lighting	11.3	11.3	0.0	--	--	-->
Compliance Total	**78.6**	**43.4**	**35.2**	**119.6**	**57.6**	**62.0**
Receptacle	22.7	22.7	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	0.9	0.9	0.0	--	--	--
Process Motors	1.6	2.8	-1.2	--	--	--
TOTAL	**103.8**	**69.8**	**34.0**	**119.6**	**57.6**	**62.0**

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) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

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

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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	15.65	20.41	-4.76
Space Cooling	89.53	63.64	25.89
Indoor Fans	191.83	53.04	138.79
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	12.98	12.98	--
Indoor Lighting	40.31	40.31	--
ENERGY STANDARDS COMPLIANCE TOTAL	**350.30**	**190.38**	**159.92 (45.7%)**

[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	79.73	79.73	--
Process	--	--	--
Other Ltg	3.07	3.07	--
Process Motors	5.87	10.60	-4.73
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**438.97**	**283.78**	**155.2 (35.4%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

Project Name:	Adelante Academy 2 - Bldng C	NRCC-PRF-01-E	Page 1 of 12
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Input File Name:	Building-C -Adelante Academy 2.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	San Jose	8	Standards Version	Compliance2019
2	CA Zip Code	95116	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	8,022 ft^2	11	Building Orientation (deg)	(E) 135 deg
5	Total Unconditioned Floor Area	648 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 Sign Lighting §140.8 Mandatory Measures	*NRCC-LTO-E* *NRCC-LTS-E*
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 5110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐ Performance ☒ Not Included			Commissioning 5120.8 Solar Ready 5110.10	*NRCC-CXR-E* *NRCC-SRA-E*

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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		
IDU C-1 / ODU C-1	SZAC (Split3Phase)	1	0	0	NA	NA	9	SEER/EER	24.50/15.70	NoEconomizer	N
HP C-1	VRF	1	294	NA	COP	3.30	274	EER	11.00	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	
IDU C-1 / ODU C-1	1	0	381	BrakeHorsePower	0.500	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
2-Classroom C11-VRF	1	367	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
3-Classroom C12-VRF	1	368	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
4-Classroom C09-VRF	1	368	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
5-Classroom C10-VRF	1	368	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
6-Classroom C07-VRF	1	367	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
7-Classroom C08-VRF	1	368	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
8-Classroom C05-VRF	1	368	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
9-Classroom C06-VRF	1	369	1130	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

[1] *Status: N - New, A – Altered, E – Existing*

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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]
Minimum Roof17	Roof	8670	NA	0	18	U-Factor	0.048	Built-up roofing - 3/8 in. OSB - Oriented Strand Board - 1/2 in. Cellular polyisocyanurate (unfaced) - 3 in. R18 Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	A

[1] *Status: N - New, A – Altered, E – Existing*

G4. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	Overall U-factor	Status[1]
Metal Door9	0.700	E

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	972	1.19	0.83	0.77	E
Residential Cooling	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	80	0.30	0.23	0.50	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*

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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]	780 ft^2	0 ft^2	00.0%
East-Facing[2]	1,290 ft^2	486 ft^2	37.7%
South-Facing[3]	1,200 ft^2	0 ft^2	00.0%
West-Facing[4]	1,290 ft^2	486 ft^2	37.7%
Total	**4,560 ft^2**	**972 ft^2**	**21.3%**
Roof	8,022 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]
Default Wall Prior to 1976	ExteriorWall	5290	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
Interior R-0 Wall12	InteriorWall	7110	Wood	0	NA	U-Factor	0.376	Gypsum Board - 1/2 in. Wood framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.	E
Slab On Grade15	UndergroundFloor	8670	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	E

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H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

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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)	
6-Classroom C08	Education - Classrooms (ages 5-8)	24.20	368	0	968	NA
7-Classroom C05	Education - Classrooms (ages 5-8)	24.23	368	0	969	NA
8-Classroom C06	Education - Classrooms (ages 5-8)	24.27	369	0	971	NA
12-Mechanical C03 Zone	General - Unoccupied	0.42	0	0	277	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 C11-VRF	1-Classroom C11	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
3-Classroom C12-VRF	2-Classroom C12	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
4-Classroom C09-VRF	3-Classroom C09	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
5-Classroom C10-VRF	4-Classroom C10	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
6-Classroom C07-VRF	5-Classroom C07	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
7-Classroom C08-VRF	6-Classroom C08	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
8-Classroom C05-VRF	7-Classroom C05	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
9-Classroom C06-VRF	8-Classroom C06	VRF	1	40.00	36.00	1130	NA	NA	0.401	bhp	☐	☐
12-Mechanical C03 Zone-Trm	12-Mechanical C03 Zone	Uncontrolled	1	NA	NA	381	NA	0.00	0.500	bhp	NA	☐

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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$_2$O)	Status[1]
Toilet Zone75	9-Toilet Zone	1	425	0.250	0.513	2.43	N
Toilet Zone88	10-Toilet Zone	1	150	0.250	1.453	6.87	N
Toilet Zone96	11-Toilet Zone	1	425	0.250	0.513	2.43	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

H6. SYSTEM SPECIAL FEATURES

1	2	3	4
System Name	Equipment Type	Window Interlocks per §140.4(n)	Other Special Features and Controls

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

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 C11	Education - Classrooms (ages 5-8)	24.18	367	0	967	NA
2-Classroom C12	Education - Classrooms (ages 5-8)	24.20	368	0	968	NA
3-Classroom C09	Education - Classrooms (ages 5-8)	24.20	368	0	968	NA
4-Classroom C10	Education - Classrooms (ages 5-8)	24.20	368	0	968	NA
5-Classroom C07	Education - Classrooms (ages 5-8)	24.15	367	0	966	NA

DSA STAMP

STUDIO W ARCHITECTS

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1930 H St.
Sacramento, California 95811
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CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2198

ARCHITECT
LICENSED ARCHITECT — BRYAN P. WHITMORE — No. C 30345 — Ren. 9/30/23 — STATE OF CALIFORNIA

ENGINEER
REGISTERED PROFESSIONAL ENGINEER — EVAN M. HINES — M 39462 — REN. 6-30-23 — 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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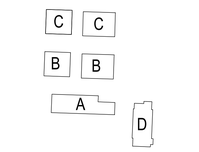
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TITLE 24 CALCULATIONS

Date 12/23/2022
Project Number 22025
Application Number 02-120630
Drawing Number T24.07
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: 2022-12-15
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:	Title:	License #:
Phone:		
Responsible Lighting Designer Name: Rami Zeidan	Signature:	
Company: LP Consulting Engineers Inc.	Date Signed: 2022-12-15	
Address: 1209 Pleasant Grove Blvd		
City/State/Zip: Roseville CA 95678	Title: Electrical Engineer	License #: E16762
Phone: 916-771-0778		
Responsible Mechanical Designer Name: Evan Cheung	Signature:	
Company: LP Consulting Engineers Inc	Date Signed: 2022-12-15	
Address: 1209 Pleasant Grove Blvd		
City/State/Zip: Roseville CA 95678		
Phone: 9167710778	Title: Mechanical Engineer	License #: M39462

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-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	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 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

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
Toilet Zone	Restrooms	0.65	274	178.1	No	No
Toilet Zone	Restrooms	0.65	108	70.2	No	No
Toilet Zone	Restrooms	0.65	266	172.9	No	No
	TOTALS:		648	421.2	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: 2022-12-15
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: 2022-12-15
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

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		421.2	0		=	421	≥	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.

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)	648
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	648
Total Area of Work (ft²)	0		648	

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.

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STUDIO W ARCHITECTS

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LP CONSULTING ENGINEERS
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p 916-771-0778
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Job #: 22-2198

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER EVAN H. WING CHEUNG No. M 39462 REN. 6-30-23 MECHANICAL STATE OF CALIFORNIA

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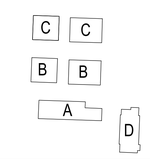
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TITLE 24 CALCULATIONS

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	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:	Adelante Academy 2 - Bldng C	Report Page:	(Page 3 of 6)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15 15:16:40

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng C	Report Page:	(Page 2 of 6)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15 15:16:40

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng C	Report Page:	(Page 1 of 6)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15 15:16:40

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng C	Report Page:	(Page 6 of 6)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15
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: 2022-12-15
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

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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng C	Report Page:	(Page 5 of 6)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15 15:16:40

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng C	Report Page:	(Page 4 of 6)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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

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STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Adelante Academy 2 - Bldng C	Report Page:	(Page 3 of 3)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15
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: 2022-12-15
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

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STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Adelante Academy 2 - Bldng C	Report Page:	(Page 2 of 3)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15 15:16:40

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Adelante Academy 2 - Bldng C	Report Page:	(Page 1 of 3)
Project Address:	1970 Cinderella Lane	Date Prepared:	12/15/2022

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: 2022-12-15 15:16:40

DSA STAMP

STUDIO W ARCHITECTS

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MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2198

ARCHITECT: LICENSED ARCHITECT — BRYAN P. WHITMORE — No. C 30345 — Ren. 9/30/23 — STATE OF CALIFORNIA — Seal Widths Standard

ENGINEER: REGISTERED PROFESSIONAL ENGINEER — EVAN M. WHITMORE — M 39462 — REN. 6-30-23 — MECHANICAL — STATE OF CALIFORNIA

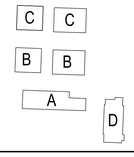
GENERAL NOTES
1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as 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. 2022.

REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS — DATE
- ● DSA PLAN CHECK 12/23/2022
- ○ DSA BACK CHECK
- ○ BIDDING
- ○ CONSTRUCTION

KEY PLAN



ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TITLE 24 CALCULATIONS

Date: 12/23/2022
Project Number: 22025
Application Number: 02-120630
Drawing Number: T24.09
Drawn: KT
Checked: CD

Project Name:	Adelante Academy 2 - Bldng D - Multipurpose	NRCC-PRF-01-E	Page 3 of 11
Project Address:	1970 Cinderella Lane San Jose 95116	Calculation Date/Time:	08:44, Thu, Dec 15, 2022
Input File Name:	Building-D-Adelante Academy 2.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	--	5.2	-5.2	39.0	--	39.0
Space Cooling	5.9	5.0	0.9	--	--	--
Indoor Fans	23.2	9.1	14.1	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	0.1	0.1	0.0	36.7	36.7	0.0
Indoor Lighting	5.8	5.8	0.0	--	--	-->
Compliance Total	**35.0**	**25.2**	**9.8**	**75.7**	**36.7**	**39.0**
Receptacle	13.5	13.5	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	1.4	1.4	0.0	--	--	--
Process Motors	0.3	0.9	-0.6	--	--	--
TOTAL	**50.2**	**41.0**	**9.2**	**75.7**	**36.7**	**39.0**

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) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

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

Project Name:	Adelante Academy 2 - Bldng D - Multipurpose	NRCC-PRF-01-E	Page 2 of 11
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Input File Name:	Building-D-Adelante Academy 2.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	19.50	31.87	-12.37
Space Cooling	72.34	62.88	9.46
Indoor Fans	174.77	68.80	105.97
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	17.08	17.08	--
Indoor Lighting	40.91	40.91	--
ENERGY STANDARDS COMPLIANCE TOTAL	**324.60**	**221.54**	**103.06 (31.7%)**

[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	94.52	94.52	--
Process	--	--	--
Other Ltg	9.86	9.86	--
Process Motors	2.59	7.05	-4.46
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**431.57**	**332.97**	**98.6 (22.8%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

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Project Address:	1970 Cinderella Lane San Jose 95116	Calculation Date/Time:	08:44, Thu, Dec 15, 2022
Input File Name:	Building-D-Adelante Academy 2.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	San Jose	8	Standards Version	Compliance2019
2	CA Zip Code	95116	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	4,017 ft^2	11	Building Orientation (deg)	(E) 135 deg
5	Total Unconditioned Floor Area	973 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 ☒ 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 5110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐ Performance ☒ Not Included			Commissioning 5120.8	*NRCC-CXR-E*
				Solar Ready 5110.10	*NRCC-SRA-E*

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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 D-1	VRF	1	180	NA	COP	3.20	160	EER	11.10	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-Office D01-VRF	1	30	307	BrakeHorsePower	0.103	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
3-Office D02-VRF	1	21	307	BrakeHorsePower	0.103	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
4-Band Room D03-VRF	1	82	450	BrakeHorsePower	0.160	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
5-Stage D05-VRF	1	479	777	BrakeHorsePower	0.055	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
6-Multi-purpose Room-VRF	2	625	1800	BrakeHorsePower	1.000	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 Zone83	8-Toilet Zone	1	75	0.250	2.907	13.75	N

[1] *Status: N - New, A – Altered, E – Existing*

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

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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]
Minimum Roof17	Roof	4990	NA	0	18	U-Factor	0.048	Built-up roofing - 3/8 in. OSB - Oriented Strand Board - 1/2 in. Cellular polyisocyanurate (unfaced) - 3 in. R18 Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	A

[1] *Status: N - New, A – Altered, E – Existing*

G4. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	Overall U-factor	Status[1]
Metal Door10	0.700	E

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	306	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*

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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]	1,088 ft^2	105 ft^2	09.7%
East-Facing[2]	0 ft^2	0 ft^2	00.0%
South-Facing[3]	1,211 ft^2	153 ft^2	12.6%
West-Facing[4]	441 ft^2	0 ft^2	00.0%
Total	**2,740 ft^2**	**258 ft^2**	**09.4%**
Roof	4,017 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]
Default Wall Prior to 1976	ExteriorWall	3685	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
Interior R-0 Wall12	InteriorWall	5360	Wood	0	NA	U-Factor	0.376	Gypsum Board - 1/2 in. Wood framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.	E
Slab On Grade15	UndergroundFloor	4990	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	E

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Input File Name:	Building-D-Adelante Academy 2.cibd19x		

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

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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
6-Multi-purpose Room-VRF	5-Multi-purpose Room	VRF	2	60.00	54.00	1800	NA	NA	1.000	bhp	☐	☐

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

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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-Office D01	Office - Office space	1.01	30	0	203	NA
2-Office D02	Office - Office space	0.71	21	0	142	NA
3-Band Room D03	Education - Classrooms (ages 5-8)	5.38	82	0	215	NA
4-Stage D05	Education - Multiuse assembly	23.93	479	0	957	NA
5-Multi-purpose Room	Education - Multiuse assembly	62.50	1250	0	2500	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
				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-Office D01-VRF	1-Office D01	VRF	1	9.00	8.00	307	NA	NA	0.103	bhp	☐	☐
3-Office D02-VRF	2-Office D02	VRF	1	9.00	8.00	307	NA	NA	0.103	bhp	☐	☐
4-Band Room D03-VRF	3-Band Room D03	VRF	1	14.00	12.00	450	NA	NA	0.160	bhp	☐	☐
5-Stage D05-VRF	4-Stage D05	VRF	1	27.00	23.00	777	NA	NA	0.055	bhp	☐	☐

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2022-12-15 08:44:57

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Roseville, CA 95678
p 916-771-0778
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Job #: 22-2198

ARCHITECT: LICENSED ARCHITECT, BRYAN P. WHITMORE, No. C 30345, Ren. 9/30/23, STATE OF CALIFORNIA

ENGINEER: REGISTERED PROFESSIONAL ENGINEER, EVAN M. HINES, M 39462, REN. 6-30-23, 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. 2022.

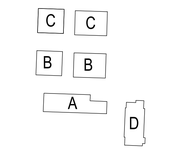
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TITLE 24 CALCULATIONS

Date 12/23/2022
Project Number 22025
Application Number 02-120630
Drawing Number T24.10
Drawn KT
Checked CD

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
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.			
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 1 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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)	973
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	973
Total Area of Work (ft²)	0		973	

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: 2022-12-15
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: 2022-12-15	
Address: 1209 Pleasant Grove Blvd		
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title: Electrical Engineer	License #: E16762
Responsible Mechanical Designer Name: Evan Cheung	Signature:	
Company: LP Consulting Engineers Inc		
Address: 1209 Pleasant Grove Blvd	Date Signed: 2022-12-15	
City/State/Zip: Roseville CA 95678		
Phone: 9167710778	Title: Mechanical Engineer	License #: M39462

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:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 4 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 3 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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	
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
Kitchen Zone	Classroom, Lecture, or Training Vocational Area	0.7	657	459.9	No	No
Undefined Zone	Classroom, Lecture, or Training Vocational Area	0.7	244	170.8	No	No
Toilet Zone	Restrooms	0.65	72	46.8	No	No
		TOTALS:	973	677.5	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:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 2 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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		677.5	0		677	≥	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.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 1 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 6 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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: 2022-12-15
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: 2022-12-15
Address: 1209 Pleasant Grove Blvd	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 5 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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.

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STUDIO W ARCHITECTS

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MEP & FS / Sustainability / CxA
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p 916-771-0778
www.lpengineers.com
Job #: 22-2198

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER EVAN M. CHEUNG No. M 39462 REN. 6-30-23 MECHANICAL STATE OF CALIFORNIA

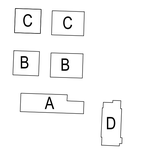
GENERAL NOTES
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2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments 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. 2022.

REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS — DATE
- ● DSA PLAN CHECK 12/23/2022
- ○ DSA BACK CHECK
- ○ BIDDING
- ○ CONSTRUCTION

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TITLE 24 CALCULATIONS

Date	Project Number
12/23/2022	22025
Application Number	Drawing Number
02-120630	T24.11
Drawn / Checked	
KT / CD	

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 4 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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	☐	☐

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: 2022-12-15 15:17:52

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 1 of 3)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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: 2022-12-15 15:17:52

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 3 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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

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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 5 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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: 2022-12-15
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: Rami Zeidan
Company: LP Consulting Engineers Inc.	Date Signed: 2022-12-15
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: 2022-12-15 15:17:52

STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 6 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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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: 2022-12-15
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
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Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 2 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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(d1) (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

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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 5 of 6)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no NRCA forms required for this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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STATE OF CALIFORNIA
Sign Lighting
NRCC-LTS-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTS-E
Project Name:	Adelante Academy 2 - Bldng D Multipurpose	**Report Page:**	**(Page 2 of 3)**
Project Address:	1970 Cinderella Lane	**Date Prepared:**	12/15/2022

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: 2022-12-15 15:17:52

DSA STAMP

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p 916-771-0778
www.lpengineers.com
Job #: 22-2198

ARCHITECT	ENGINEER
LICENSED ARCHITECT BRYAN P. WHITTEMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER EVAN M. WHITTEMORE No. M 39462 REN. 6-30-23 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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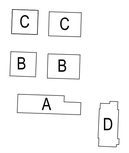
REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

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

KEY PLAN



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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TITLE 24 CALCULATIONS

Date	Project Number
12/23/2022	22025
Application Number	**Drawing Number**
02-120630	T24.12
Drawn / **Checked**	
KT / CD	