# 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




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TOTAL SHEET COUNT: 94


## PROJECT DIRECTORY


### CLIENT
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## DSA REQUIREMENTS

1. ALL WORK SHALL CONFORM TO THE 2019 EDITION OF THE TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. AS A FACILITY WHICH COMES UNDER THE APPROVAL AND AUTHORITY OF THE DIVISION OF THE STATE ARCHITECT (DSA), THIS PROJECT IS SUBJECT TO DRAWING AND JOB SITE REVIEW BY A REPRESENTATIVE OF DSA.
3. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS AFFECTING FLS, SSS, AND/OR ACS SHALL BE MADE BY ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR AND DSA IR A-6.
4. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 C.C.R.
5. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
6. A COPY OF PART 1 TO PART 5 OF TITLE 24 SHALL BE KEPT AND BE AVAILABLE IN THE FIELD DURING CONSTRUCTION.
7. DSA SHALL BE NOTIFIED OF THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24, CCR
8. THE DIVISION OF THE STATE ARCHITECT IS EXEMPT FROM ARBITRATION OR MEDIATION PROCEDURES.
9. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT IS REQUIRED PER SECTION 4-334, PART 1, TITLE 24, CCR.
10. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, CCR:
    - VERIFIED REPORTS PER SECT 4-336; PART 1, TITLE 24 CCR
    - DUTIES OF ARCHITECT PER SECT 4-331, 4-341; PART 1, TITLE 24 CCR
    - DUTIES OF CONTRACTOR PER SECT. 4-343; PART 1, TITLE 24
11. TESTING AND INSPECTION:
    - INSPECTOR APPROVED BY DSA AS PER SECT. 4-333(D); PART 1, TITLE 24, CCR
    - TESTS AND TESTING LABORATORIES PER SECT 4-335
    - SPECIAL INSPECTION PER SECT. 4-333(C)
12. CHANGES IN LEVEL FOR FLOOR FINISHES SHALL CONFORM WITH CBC SECTION 11B-303.
13. ALL TESTS TO CONFORM TO REQUIREMENTS OF SECTION 4-335; PART 1, TITLE 24, CCR
14. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335; PART 1, TITLE 24, CCR AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS FOR RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.
15. INSPECTOR SHALL BE APPROVED BY DSA. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(B).
16. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
17. INSPECTOR OF RECORD REQUIREMENTS:
    A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTOR'S DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24; PART 1 AND IN ADDITION, SHALL BE STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8.
    B. INSPECTOR SHALL BE CERTIFIED AS A CLASS 2 INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.
18. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND EQUIPMENT. AFTER INSTALLATION AND BEFORE PROJECT COMPLETION, AN ACCEPTANCE TEST IS FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AN IN COMPLIANCE WITH THE ENERGY CODE.
    A. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
    B. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECT SUBMITTED ON OR AFTER OCTOBER 1, 2021.
    C. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TEST SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
    D. A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.
    E. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
    F. PROJECT INSPECTOR WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
19. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION WILL BE ENFORCED IN ACCORDANCE WITH CBC & CFC CHAPTER 33.

## DEFERRED APPROVALS

1. NONE

## ADD ALTERNATES

1. NONE

## CODES AND REGULATIONS

APPLICABLE STATE CODES AND REGULATIONS WITH LATEST AMENDMENTS AND SUPPLEMENTS:

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

APPLICABLE FEDERAL CODES AND STANDARDS:

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

APPLICABLE REFERENCED STANDARDS:

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

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

## PROJECT DESCRIPTION

APN: 481-370-10

THE PROJECT INCLUDES HVAC REPLACEMENT AND RE-ROOFING 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 . ACCESSIBILITY UPGRADES TO 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, P, 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* — *Date* 04/24/2023

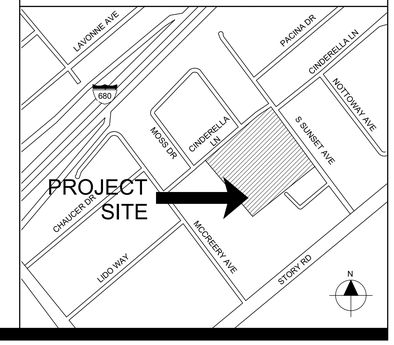
***Architect or Engineer designated to be in general responsible charge.***

*Brian P. Whitmore*
***Print Name***

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

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

## VICINITY MAP




DSA STAMP

STUDIO W ARCHITECTS


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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: 04/24/2023 | |

GENERAL NOTES

1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
4. Copyright Studio W Associates, Inc. 2023.

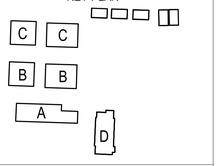
REVISION HISTORY

| NO. | REMARKS | DATE |
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DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

COVER SHEET

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| **Application Number** | **Drawing Number** |
| 01-120630 | A0.1 |
| Drawn: KT | Checked: CD |

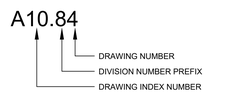
# DRAWING DISCIPLINE PREFIX

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

# DRAWING INDEX CODE

A0. GENERAL INFORMATION
A1. SITE PLANS
A2. FLOOR PLANS
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
DIVISION 09 FINISHES
DIVISION 10 SPECIALTIES
DIVISION 11 EQUIPMENT
DIVISION 12 FURNISHINGS
DIVISION 13 SPECIAL CONSTRUCTION
DIVISION 14 CONVEYING EQUIPMENT
DIVISION 21 FIRE SUPPRESSION
DIVISION 22 PLUMBING
DIVISION 23 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)
DIVISION 25 INTEGRATED AUTOMATION
DIVISION 26 ELECTRICAL
DIVISION 27 COMMUNICATIONS
DIVISION 28 ELECTRONIC SAFETY AND SECURITY
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DIVISION 32 EXTERIOR IMPROVEMENTS
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DIVISION 34 TRANSPORTATION
DIVISION 35 WATERWAY AND MARINE CONSTRUCTION
DIVISION 40 PROCESS INTERCONNECTIONS
DIVISION 41 MATERIAL PROCESSING AND HANDLING EQUIPMENT
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 SUBSEQUENTLY COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTORS FAILURE TO INSPECT THE SITE. BIDDERS SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS, REQUIRING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS.
2. THERE WILL BE NO SUBSTITUTION FOR SPECIFIED ITEMS WITHOUT PRIOR APPROVAL UNLESS OTHERWISE NOTED. REQUESTS FOR SUBSTITUTIONS SHALL BE MADE IN ACCORDANCE WITH GENERAL CONDITIONS & DIVISION 1
3. THE GENERAL BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED BY GOVERNING AGENCIES IN ORDER TO PERFORM THE WORK.
4. THE FINAL LOCATION OF ALL ELECTRICAL AND SIGNAL EQUIPMENT, PANEL BOARDS, FIXTURES, ETC., SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION.
5. DEFINITIONS
   A. "TYPICAL" MEANS IDENTICAL FOR ALL CONDITIONS, UNLESS OTHERWISE NOTED.
   B. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATIONS.
   C. "PROVIDE" MEANS TO FURNISH AND INSTALL.
   D. "FURNISH" MEANS TO FURNISH AND OTHERS WILL INSTALL.
6. DIMENSIONING RULES:
   A. ALL HORIZONTAL DIMENSIONS SHALL BE TO FACE OF STUD OR TO CENTERLINE OF COLUMN GRID LINE, U.O.N
   B. DIMENSIONS NOTED "CLEAR", "CLR", OR "MINIMUM" MUST BE PRECISELY MAINTAINED.
   C. DIMENSIONS CAN NOT BE MODIFIED WITHOUT APPROVAL OF THE ARCHITECT UNLESS OTHERWISE NOTED.
   D. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB UNLESS OTHERWISE NOTED.
   E. DO NOT SCALE DRAWINGS. IF ANY ITEM OF WORK CANNOT BE LOCATED, DO NOT PROCEED WITH THE WORK WITHOUT THE ARCHITECT'S APPROVAL.
   F. DIMENSIONS MARKED "V.I.F." OR "VERIFY" SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
   G. VERIFY ALL ROUGH OPENING DIMENSIONS FOR FABRICATED ITEMS WITH THE MANUFACTURER PRIOR TO PROCEEDING WITH CONSTRUCTION.
   H. DOOR AND WINDOW OPENINGS SHALL BE LOCATED ADJACENT TO PERPENDICULAR WALL UNLESS DIMENSIONED OTHERWISE.
7. PROVIDE REQUIRED BACKING, BLOCKING, AND BRACING FOR ALL WALL -MOUNTED FIXTURES, ACCESSORIES AND EQUIPMENT.
8. VERIFY AND COORDINATE WALLS THAT MAY REQUIRE NON-TYPICAL THICKNESS OR FRAMING DUE TO ELECTRICAL, MECHANICAL, PLUMBING, STRUCTURAL AND/OR EQUIPMENT REQUIREMENTS.
9. ALL GLAZING SHALL CONFORM TO FEDERAL GLAZING REGULATIONS AND CHAPTER 24, CBC.
10. ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL LEFT-OVER MATERIALS, DEBRIS, TOOLS AND EQUIPMENT INVOLVED IN HIS/HER OPERATIONS AT THE CONCLUSION OF THE INSTALLATION. HE/SHE SHALL LEAVE ALL AREAS CLEAN AND FREE FROM DUST.
12. HAZARDOUS MATERIALS: THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, DISPOSAL OF OR EXPOSURE OF PERSONS TO ASBESTOS OR HAZARDOUS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE. PROFESSIONAL SERVICES RELATED OR IN ANY WAY CONNECTED WITH THE INVESTIGATION, DETECTION, ABATEMENT, REPLACEMENT, USE, SPECIFICATION, OR REMOVAL OF PRODUCTS, MATERIALS, OR PROCESSES CONTAINING ASBESTOS OR HAZARDOUS OR TOXIC MATERIALS ARE BEYOND THE SCOPE OF THIS AGREEMENT.
13. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWING ARE APPROXIMATE ROUTING LOCATION AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL THE EXISTING UNDERGROUND UTILITIES
14. ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIALS OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
15. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED AIR/WATER TIGHT. ALL INTERIOR PENETRATIONS SHALL BE SEALED TO PROVIDE A PROFESSIONAL AND FINISHED APPEARANCE.
16. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER USE CONTROL/ OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, PROVIDE ALL ITEMS WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN CONTRACT PRICE ON TIME.
17. THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE. THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES.
18. ALL WORK SHALL CONFORM TO CALIFORNIA CODES, TRADE STANDARDS WHICH GOVERN EACH PHASE OF THE PROJECT, AND ALL APPLICABLE LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
19. THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT PROJECT MANUAL PUBLISHED IN BOOK FORM, COMBINED, THEY ARE THE "CONTRACT DOCUMENTS".
20. NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS.
21. CONSTRUCTION MATERIAL STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE OR DETERIORATION. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK. SECURITY OF MATERIALS ARE THE SOLE RESPONSIBILITY OF CONTRACTOR.
22. ALL EQUIPMENT/CABINETS SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT WITH THIS WORK.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AND COSTS ATTRIBUTED TO RAIN WATER DAMAGE DURING THE DURATION OF THIS PROJECT.
24. PROTECT AREAS FROM DAMAGE WHICH MAY OCCUR DUE TO TEMPERATURES, WIND, DUST, WATER, ETC. PROVIDE AND MAINTAIN TEMPORARY BARRICADES, CLOSURE WALLS, ETC., AS REQUIRED DURING CONSTRUCTION.
25. MAINTAIN EXISTING PEDESTRIAN ACCESS ALONG EXISTING ADJACENT STREETS.
26. ALL PUBLIC IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST ADOPTED CITY/COUNTY STANDARDS.
27. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
28. NOTIFY THE ARCHITECT IN WRITING AND SEEK CLARIFICATION IF ANY DISCREPANCIES OR OMISSIONS ARE FOUND. CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIAL WORK IF RELATED WORK IS CONTINUED AFTER A DISCREPANCY IS IDENTIFIED.
29. NEW FINISHES AND CONSTRUCTION SHALL BE PROTECTED BY THE CONTRACTOR FROM POTENTIAL DAMAGE CAUSED BY CONSTRUCTION ACTIVITY. DAMAGE TO FINISHES OR CONSTRUCTION SHALL BE REPAIRED OR REPLACED (OWNER'S DECISION) BY THE CONTRACTOR WITH IDENTICAL MATERIAL AND/OR FINISHES. CONTRACTOR SHALL MAKE AND MAINTAIN A PHOTOGRAPHIC RECORD NOTEBOOK WITH DATED/INDEXED PHOTOGRAPHS.
30. SEE ELECTRICAL DRAWINGS FOR INFORMATION RELATED TO TELECOMMUNICATION EQUIPMENT, POWER, AND LIGHTING FIXTURES AND EQUIPMENT. SEE ARCHITECTURAL PLANS, REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS FOR COORDINATED EQUIPMENT LOCATIONS. IF NOT SHOWN, CONTACT ARCHITECT FOR REVIEW AND DECISION.
31. PROVIDE ACCESS DOORS REQUIRED FOR ACCESS TO CONCEALED MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT.
32. ALL NOTED WORK IS UNDERSTOOD TO BE NEW, UNLESS LABELED AS "(E)" OR "EXISTING"
33. MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
34. EXISTING ACCESSIBLE ROUTES TO ALL FACILITIES AND BUILDING THAT ARE OPERATIONAL DURING CONSTRUCTION PHASE SHALL REMAIN UNOBSTRUCTED, SAFE AND USABLE BY PEOPLE WITH DISABILITIES.
35. "N.I.C." (NOT INCLUDED IN CONTRACT) ITEMS SHOWN IN PLANS, IF APPLICABLE, MUST BE SUBMITTED UNDER A SEPARATE APPLICATION FOR REVIEW AND APPROVAL, IF NOT EXEMPTED BY DSA IR A-22.
36. PER CBC SECTION 11B-401 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS"
   A) WHERE CODE SPECIFIES A MAXIMUM OR MINIMUM DIMENSION, THE DIMENSION INDICATED ON THE PLANS NEED TO BE:
      - AS MAXIMUM OR MINIMUM ACCORDINGLY OR
      - PROVIDE ABSOLUTE DIMENSION THAT EXCEEDS CODE MINIMUM OR MAXIMUM REQUIREMENTS WITH APPROPRIATE INDUSTRY CONSTRUCTION TOLERANCE.
   B) WHERE CODE SPECIFIES A DIMENSION AS A RANGE THE DIMENSION INDICATED ON THE PLANS SUGGESTED TO BE:
      - AS RANGE PER CODE OR
      - ABSOLUTE MID-RANGE CODE PRESCRIBED DIMENSION.

# SUPPLEMENTAL GENERAL NOTES

1. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
3. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF STUDIO W ARCHITECTS, AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF STUDIO W ARCHITECTS.
4. EACH BIDDER SHALL POSSESS AT THE TIME OF BID, A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.
5. FIRE SAFETY DURING CONSTRUCTION & DEMOLITION:
   A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH 2019 CALIFORNIA FIRE CODE (CFC) CH. 33 (PART 9, TITLE 24 CCR).
   B. CONSTRUCTION SAFEGUARDS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CBC 3302.
   C. DEMOLITION: SHALL COMPLY WITH APPLICABLE PROVISION OF CBC 3303.
   D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES PER CBC 3308.1.
   E. MEANS OF EGRESS: SHALL COMPLY WITH APPLICABLE PROVISION OF CBC 3310.
   F. WATER SUPPLY: APPROVED WATER SUPPLY SHALL BE MADE AVAILABLE IN ACCORDANCE WITH CBC 3313.
   G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL PER CBC 3314.
6. PENETRATIONS IN FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.
7. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6):
   A. THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDINGS WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED THEY ARE BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE DRAWINGS.
   B. ENVELOPE MANDATORY MEASURES:
      B.A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.
      B.B. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 719
      B.C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
      B.D. SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).
      B.E. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS, SECTION 116(a)1.
      B.F. MANUFACTURED FENESTRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE IN ACCORDANCE WITH THE (NFRC) NATIONAL FENESTRATION RATING COUNCIL'S INTERIM U-VALUE RATING PROCEDURE.
      B.G. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).
8. PROOF LOAD TESTS FOR EXPANSION TYPE ANCHOR BOLTS:
   A. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE CATEGORY AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.
   B. APPLY PROOF TEST LOADS TO WEDGE & SLEEVE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
   C. FOR SLEEVE INTERNALLY THREADED CATEGORIES, VERIFY THAT THE ANCHOR IS NOT PREVENTED FROM WITHDRAWING BY A BASEPLATE OR OTHER FIXTURES. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE FIXTURE(S) PRIOR TO TESTING.
   D. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
   E. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
   F. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
      1. HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE. DROP-IN ANCHORS ARE ONLY TO BE TESTED WITH THIS METHOD.
      2. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE OR SLEEVE TYPE: ONE-HALF (1/2) TURN OF THE NUT. ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8 IN. SLEEVE ANCHOR ONLY.
   G. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
   H. ALL ANCHOR BOLTS OF THE EXPANSION TYPE (LOADED IN EITHER PULLOUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT ALLOWED BY THE TYPE OF SUBSTRATE AND DIAMETER OF BOLT LISTED BELOW UNDER TEST VALUES TABLE) PROOF TESTED IN TENSION TO TWICE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 1910A5. "TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE."
   I. ALL BOLTS MUST HAVE ICC APPROVAL.
   J. ALL ANCHOR BOLTS OF THE EXPANSION TYPE SHALL BE ONE OF THE FOLLOWING:
      1. HILTI KB-TZ2 ANCHOR ICC NO. ESR 4266

MINIMUM TEST VALUES
NORMAL WEIGHT OR LIGHTWEIGHT CONCRETE

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

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

DSA STAMP


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

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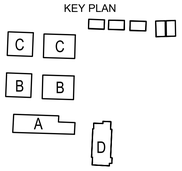
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

GENERAL NOTES

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A0.2 |
| Drawn / Checked | |
| KT / CD | |


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# ARCHITECTURAL DRAWINGS ABBREVIATIONS

| | |
|---|---|
| # | POUND OR NUMBER |
| & | AND |
| * | ITEMS IDENTIFIED AS "NIC" ARE NOT PART OF THIS DSA APPROVAL |
| @ | AT |
| ⊥ | PERPENDICULAR |
| | |
| A | |
| A/C | AIR CONDITIONING |
| A/E | ARCHITECT/ENGINEER |
| AB | ANCHOR BOLT |
| ABAN | ABANDON |
| ABC | AGGREGATE BASE COURSE |
| ABV | ABOVE |
| AC | ASPHALTIC CONCRETE |
| ACC | ACCESS(IBLE) |
| ACP | ALUMINUM COMPOSITE PANEL |
| ACST | ACOUSTICAL |
| ACT | ACOUSTICAL CEILING TILE |
| AD | AREA DRAIN |
| ADDM | ADDENDUM |
| ADH | ADHESIVE |
| ADJ | ADJUSTABLE |
| ADJC | ADJACENT |
| AFF | ABOVE FINISH FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AGGR | AGGREGATE |
| AHU | AIR HANDLING UNIT |
| ALS | ASSISTED LISTENING SYSTEM |
| ALT | ALTERNATE |
| ALUM./AL. | ALUMINUM |
| ANC | ANCHOR, ANCHORAGE |
| APLD | APPLIED |
| APPRX | APPROXIMATELY |
| ARCH | ARCHITECT(URAL) |
| ASC | ABOVE SUSPENDED CEILING |
| ASF | ABOVE STAGE FINISH |
| ASPH | ASPHALT |
| ASSY | ASSEMBLY |
| ASYM | ASYMMETRICAL |
| AUTO | AUTOMATIC |
| AV | AUDIO VISUAL |
| AWG | AMERICAN WIRE GAUGE |
| | |
| B | |
| B | BOLT |
| BC | BACK OF CURB |
| BD | BOARD |
| BITUM | BITUMINOUS |
| BLDG | BUILDING |
| BLK | BLOCK |
| BLKG | BLOCKING |
| BLW | BELOW |
| BLW CLG | BELOW CEILING |
| BLW FFLR | BELOW FINISH FLOOR |
| BM | BENCH MARK |
| BN | BOUNDARY NAILING |
| BO | BOTTOM OF |
| BOT | BOTTOM |
| BRCG | BRACING |
| BRDG | BRIDGING |
| BRG | BEARING |
| BRK | BRICK |
| BRKT | BRACKET |
| BRS | BRASS |
| BRZ | BRONZE |
| BS | BOTH SIDES |
| BSMT | BASEMENT |
| BTWN | BETWEEN |
| BUR | BUILT UP ROOFING |
| BW | BOTH WAYS |
| | |
| C | |
| C&G | CURB AND GUTTER |
| CAB | CABINET |
| CAD | CADMIUM |
| CB | CATCH BASIN |
| CBB | CEMENTITIOUS BACKER BOARD |
| CBC | CALIFORNIA BUILDING CODE |
| CEM | CEMENT |
| CER | CERAMIC |
| CFCI | CONTRACTOR FURNISHED CONTRACTOR INSTALLED |
| CFLG | COUNTERFLASHING |
| CFOI | CONTRACTOR FURNISHED OWNER INSTALLED |
| CG | CORNER GUARD |
| CHBD | CHALKBOARD |
| CHFR | CHAMFER |
| CI | CAST IRON |
| CIP | CAST IN PLACE |
| CIR | CIRCLE |
| CIRC | CIRCULAR, CIRCUMFERENCE |
| CJ | CONSTRUCTION JOINT |
| CL | CHAIN LINK OR CENTER LINE |
| CLG | CEILING |
| CLJ | CONTROL JOINT |
| CLKG | CAULKING |
| CLL | CONTRACT LIMIT LINE |
| CLOS | CLOSURE |
| CLR | CLEAR(ANCE) |
| CLRM | CLASSROOM |
| CMP | CORRUGATED METAL PANEL |
| CMPST | COMPOSITION |
| CMU | CONCRETE MASONARY UNIT |
| CNCL | CONCEALED |
| CNR | CORNER |
| CNTR | COUNTER |
| COL | COLUMN |
| COM | COMMON |
| COMB | COMBINATION |
| COMP | COMPOSITE |
| COMPT | COMPARTMENT |
| CONC | CONCRETE |
| CONF | CONFERENCE |
| CONN | CONNECTION |
| CONSTR | CONSTRUCTION |
| CONT | CONTINUOUS, CONTINUATION |
| CONTR | CONTRACT(OR) |
| COORD | COORDINATE |
| CORR | CORRIDOR |
| CPR | COPPER |
| CPRS | COMPRESS(ED), (ION), (IBLE) |
| CPT | CARPET |
| CRS | COLD ROLLED STEEL |
| CS | CAST STONE |
| CSG | CASING |
| CSK | COUNTERSUNK |
| CSMT | CASEMENT |
| CSWK | CASEWORK |
| CT | CERAMIC TILE |
| CTB | CERAMIC TILE BASE |
| CTF | CERAMIC TILE FLOOR |
| CTG | COATING |
| CTR | CENTER |
| CUFT | CUBIC FOOT |
| CUIN | CUBIC INCH |
| CUST | CUSTODIAN |
| CUYD | CUBIC YARD |
| CW | CURTAIN WALL |
| | |
| D | |
| D | DRAIN |
| d. | PENNYWEIGHT (NAILS) |
| DA | DOUBLE ACTING |
| DBL | DOUBLE |
| DEG | DEGREES |
| DEMO | DEMOLISH, DEMOLITION |
| DEP | DEPRESSED |
| DEPT | DEPARTMENT |
| DET | DETAIL |
| DF | DRINKING FOUNTAIN |
| DG | DECOMPOSED GRANITE |
| DH | DOUBLE HUNG |
| DIA | DIAMETER |
| DIAG | DIAGONAL |
| DIFF | DIFFUSER |
| DIM | DIMENSION |
| DISP | DISPENSER |
| DIV | DIVISION |
| DMPF | DAMPPROOFING |
| DMT | DEMOUNTABLE |
| DN | DOWN |
| DR | DOOR |
| DRB | DRAINBOARD |
| DRLV | DOOR LOUVER |
| DS | DOWNSPOUT |
| DSP | DRY STANDPIPPE |
| DT | DRAIN TILE |
| DVTL | DOVETAIL |
| DW | DISHWASHER |
| DWG | DRAWING |
| DWL | DOWEL |
| DWR | DRAWER |
| | |
| E | |
| (E) | EXISTING |
| E | EAST |
| EA | EACH |
| EAR | EXHAUST AIR REGISTER |
| EB | EXPANSION BOLT |
| EE | EACH END |
| EF | EACH FACE |
| EFS | EXTERIOR FINISH SYSTEM |
| EHD | ELECTRIC HAND DRYER |
| EIFS | EXTERIOR INSULATION AND FINISH SYSTEM |
| EJ | EXPANSION JOINT |
| EL | ELEVATION |
| ELAST | ELASTOMERIC |
| ELEC | ELECTRIC(AL) |
| ELEV | ELEVATOR |
| EM | EXPANDED METAL |
| EMER | EMERGENCY |
| EN | EDGE NAILING |
| ENCL | ENCLOSE(URE) |
| ENGR | ENGINEER |
| ENTR | ENTRANCE |
| EP | ELECTRICAL PANELBOARD |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| ESC | ESCUTCHEON |
| ESCL | ESCALATOR |
| ESMT | EASEMENT |
| EW | EACH WAY |
| EWC | ELECTRIC WATER COOLER |
| EWH | ELECTRIC WATER HEATER |
| EWS | EYE WASH STATION |
| EXC | EXCAVATE |
| EXH | EXHAUST |
| EXP | EXPOSED |
| EXPN | EXPANSION |
| EXS | EXTRA STRONG |
| EXT | EXTERIOR |
| | |
| F | |
| (F) | FUTURE |
| F/F | FACE TO FACE |
| FA | FIRE ALARM |
| FAB | FABRIC |
| FBD | FIBERBOARD |
| FBRK | FIRE BRICK |
| FCBRK | FACE BRICK |
| FD | FLOOR DRAIN |
| FDTN | FOUNDATION |
| FE | FIRE EXTINGUISHER |
| FEC | FIRE EXTINGUISHER CABINET |
| FF | FINISH FLOOR |
| FFA | FROM FLOOR ABOVE |
| FFB | FROM FLOOR BELOW |
| FFEL | FINISHED FLOOR ELEVATION |
| FFL | FINISHED FLOOR LINE |
| FGL | FIBERGLASS |
| FHC | FIRE HOUSE CABINET |
| FHMB | FLAT HEAD MACHINE BOLT |
| FHMS | FLAT HEAD MACHINE SCREW |
| FHWS | FLATHEAD WOOD SCREW |
| FIN | FINISH(ED) |
| FJT | FLUSH JOINT |
| FLASH | FLASHING |
| FLDG | FOLDING |
| FLG | FLOORING |
| FLR | FLOOR |
| FLUOR | FLUORESCENT |
| FN | FIELD NAILING |
| FOB | FACE OF BLOCK |
| FOC | FACE OF CONCRETE/CURB |
| FOF | FACE OF FINISH |
| FOG | FACE OF GRID |
| FOM | FACE OF MASONRY |
| FOS | FACE OF STUD |
| FPL | FIREPLACE |
| FPRF | FIREPROOF(ING) |
| FR | FRAME(D), (ING) |
| FRG | FIBERGLASS REINFORCED GYPSUM |
| FRP | FIBERGLASS REINFORCED PLASTIC |
| FRTW | FIRE RETARDANT TREATED WOOD |
| FRZ | FREEZER |
| FS | FIRE SPRINKLER |
| FS | FAR SIDE |
| FSTN | FASTEN, FASTENER |
| FT | FOOT/FEET |
| FTG | FOOTING |
| FURG | FURRED, (ING) |
| FWC | FABRIC WALL COVERING |
| | |
| G | |
| GA | GAUGE |
| GAL | GALLON |
| GALV | GALVANIZED |
| GB | GRAB BAR |
| GFRC | GLASS FIBER REINFORCED CONCRETE |
| GI | GALVANIZED IRON |
| GL | GLASS |
| GLULAM | GLUE LAMINATED |
| GLZ | GLAZING |
| GLZCMU | GLAZED CONRETE MASONRY UNIT |
| GND | GROUND |
| GPC | GYPSUM PLASTER CEILING |
| GR | GRADE |
| GRBM | GRADE BEAM |
| GRLN | GRADE LINE |
| GSB | GYPSUM SHEATHING BOARD |
| GSM | GALVANIZED SHEET METAL |
| GSS | GALVANIZED STEEL SHEET |
| GST | GLAZED STRUCTURAL TILE |
| GT | GROUT |
| GVL | GRAVEL |
| GYP | GYPSUM |
| GYPB | BD GYPSUM BOARD |
| | |
| H | |
| HB | HOSE BIB |
| HC | HOLLOW CORE |
| HD | HEAVY DUTY |
| HDAS | HEADED ANCHOR STUD |
| HDJT | HEAD JOINT |
| HDR | HEADER |
| HDW | HARDWARE |
| HDWD | HARDWOOD |
| HEX | HEXAGONAL |
| HGR | HANGER |
| HLDN | HOLD DOWN |
| HM | HOLLOW METAL |
| HMD | 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 | RIGHT HAND REVERSE |
| RHR | ROUND HEAD MACHINE SCREW |
| RHWS | RIGHT HAND REVERSE |
| RL | ROUND HEAD WOOD SCREW |
| RLG | ROOF LEADER |
| RM | RAILING |
| RND | ROOM |
| RO | ROUND |
| ROW | ROUGH OPENING |
| RR | RIGHT OF WAY |
| RS | RESTROOM |
| RTF | ROUGH SAWN |
| RTU | RUBBER TILE FLOORING |
| RVL | ROOF TOP UNIT |
| RVS | ROOF VENT |
| RVT | REVEAL |
| RWD | REVERSE (SIDE) |
| RWL | RIVET(ED) |
| | REDWOOD |
| | RAIN WATER LEADER |
| | |
| S | |
| S | SOUTH |
| S2S | SURFACED TWO SIDES |
| S4S | SURFACED FOUR SIDES |
| SA | SUPPLY AIR |
| SALV | SALVAGE |
| SAM | SELF-ADHERED MEMBRANE |
| SAT | SUSPENDED ACOUSTICAL TILE |
| SB | SPLASH BLOCK |
| SBSTR | SUBSTRATE |
| SC | SOLID CORE |
| SCD | SEAT COVER DISPENSER |
| SCHED | SCHEDULE |
| SCP | SCUPPER |
| SCRN | SCREEN |
| SD | STORM DRAIN |
| SDBL | SANDBLAST |
| SEC | SECONDS |
| SECT | SECTION |
| SEP | SEPERATE OR SEPERATION |
| SF | SQUARE FEET, STOREFRONT |
| SGL | SINGLE |
| SHR | SHOWER |
| SHT. | SHEET(ING) |
| SHTG | SHEATHING |
| SHV | SHELVES(ING) |
| SIM | SIMILAR |
| SK | SINK |
| SKLT | SKYLIGHT |
| SLD | SEALED |
| SLDG | SLIDE(ING) |
| SLDR | SOLDER |
| SLNT | SEALANT |
| SLV | SLEEVE |
| SM | SHEET METAL |
| SMACNA | SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION |
| SMLS | SEAMLESS |
| SMS | SHEET METAL SCREW |
| SND | SANITARY NAPKIN DISPENSER |
| SNDINS | SOUND INSULATION |
| SNDU | SANITARY NAPKIN DISPOSAL UNIT |
| SNT | SEALANT |
| SP | SPACES |
| SPC | SUSPENDED PLASTER CEILING |
| SPD | SOAP DISPENSER |
| SPEC | SPECIFICATION |
| SPEC | SPECIFICATION(S) |
| SPRT | SUPPORT |
| SQ | SQUARE |
| SQ | SQUARE |
| SSK | SERVICE SINK |
| SST | STAINLESS STEEL |
| ST | STREET |
| STA | STATION |
| STAG | STAGGERED |
| STC | SOUND TRANSMISSION CLASS |
| STD | STANDARD |
| STG | SEATING |
| STF | STIFFENER |
| STIR | STIRRUP |
| STL | STEEL |
| STOR | STORAGE |
| STR | STRAIGHT |
| STRUC | STRUCTURAL |
| STU | STRUCT |
| SUSP | SUSPENDED |
| SV | SHEET VINYL |
| SYMM | SYMMETRICAL |
| SYNTH | SYNTHETIC |
| SYS | SYSTEM |
| | |
| T | |
| T | TEMPERED, TOILET, TREAD |
| T24 | TITLE 24 |
| T&B | TOP AND BOTTOM |
| T&G | TONGUE & GROOVE |
| TB | THRU BOLT |
| TBE | THREADED BOTH ENDS |
| TD | TOWEL DISPENSER |
| TDR | TOWEL DISPENSER/RECEPTACLE |
| TEL | TELEPHONE |
| TEMP | TEMPORARY |
| TER | TERRAZZO |
| TFA | TO FLOOR ABOVE |
| TFB | TO FLOOR BELOW |
| THD | THREAD(ED) |
| THERM | THERMAL |
| THK | THICK |
| THRES | THRESHOLD |
| THRU | THROUGH |
| TKBD | TACKBOARD |
| TMPD | TEMPERED |
| TO | TOP OF |
| TOB | TOP OF BEAM |
| TOC | TOP OF CURB OR TOP OF CONCRETE |
| TOF | TOP OF FOOTING |
| TOFF | TOP OF FINISH FLOOR |
| TOJ | TOP OF JOIST |
| TOL | TOLERANCE |
| TOM | TOP OF MASONRY |
| TOP | TOP OF PARAPET |
| TOPV | TOP OF PAVEMENT |
| TOS | TOP OF SHEATHING |
| TOSL | TOP OF SLAB |
| TOST | TOP OF STEEL |
| TOW | TOP OF WALL OR TOP OF WALK |
| TPD | TOILET PAPER DISPENSER |
| TPTN | TOILET PARTITION |
| TRANS | TRANSITION |
| TS | TUBE STEEL |
| TV | TELEVISION |
| TWLB | TOWEL BAR |
| TYP | TYPICAL |
| | |
| U | |
| UC | UNDERCUT |
| UGND | UNDERGROUND |
| UL | UNDERWRITER'S LABORATORY |
| UNFIN | UNFINISHED |
| UON | UNLESS OTHERWISE NOTED |
| UR | URINAL |
| URM | UNREINFORCED MASONRY |
| UTIL | UTILITY |
| | |
| V | |
| VAR | VARIES |
| VB | VINYL BASE |
| VCT | VINYL COMPOSITION TITLE |
| VER | VERIFY |
| VERT | VERTICAL |
| VEST | VESTIBULE |
| VF | VINYL FABRIC |
| VFAT | VINYL FACED ACOUSTIC TILE |
| VIF | VERIFY IN FIELD |
| VJ | V-JOINT(ED) |
| VNR | VENEER |
| VR | VAPOR RETARDER |
| VTR | VENT THROUGH ROOF |
| VWC | VINYL WALL COVERING |
| | |
| W | |
| W | WEST |
| W.H. | WATER HEATER |
| W.O. | WHERE OCCURS |
| W/ | WITH |
| W/O | WITHOUT |
| WW | WALL TO WALL |
| WBL | WOOD BLOCKING |
| WC | WATER CLOSET |
| WD | WOOD |
| WDP | WOOD PANELING |
| WDW | WINDOW |
| WF | WIDE FLANGE |
| WFS | WOOD FURRING STRIP |
| WGL | WIRED GLASS |
| WH | WALL HUNG |
| WI | WROUGHT IRON |
| WID | WIDTH, WIDE |
| WLD | WELD(ED) |
| WM | WIRE MESH |
| WP | WATERPROOF(ING) |
| WPT | WORKING POINT |
| WR | WIRE ROPE |
| WS | WOOD SCREW |
| WSCT | WAINSCOT |
| WT | WEIGHT |
| WWF | WELDED WIRE FABRIC |
| | |
| X | |
| XBRACE | CROSS BRACE |
| XFMR | TRANSFORMER |
| XSECT | CROSS SECTION |
| | |
| Y | |
| YCO | YARD CLEANOUT |
| YD | YARD |

# SYMBOLS LEGEND

N = PLAN NORTH ARROW
ADDITIONAL ARROW INDICATES TRUE NORTH

X = BUILDING SECTION NUMBER
AX.X = SHEET NUMBER

X = WALL SECTION NUMBER
AX.X = SHEET NUMBER

X = EXTERIOR ELEVATION NUMBER
AX.X = SHEET NUMBER

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

GRID LINE, FACE OF STRUCTURE

GRID LINE, CENTER OF STRUCTURE

ELEVATION OR DATUM POINT

WORK POINT

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

MATCH LINE AND AREA DESIGNATOR
SHADED PORTION IS THE SIDE CONSIDERED

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

WINDOW, STOREFRONT, OR CURTAINWALL
SEE WINDOW SCHEDULE

DOOR NUMBER, SEE DOOR SCHEDULE

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

REVISION

SIGNAGE TAG

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

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

PANIC HARDWARE TAG

# MATERIALS LEGEND

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

DSA STAMP

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| ARCHITECT | ENGINEER |
|---|---|

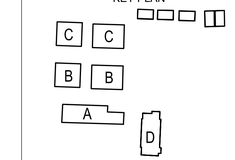
LICENSED ARCHITECT
BRIAN P. WHITMORE
No. C 30345
Ren. 9/30/23
STATE OF CALIFORNIA
DATE SIGNED: 04/24/2023

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| REVISION HISTORY | NO. | REMARKS | DATE |
|---|---|---|---|
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| DRAWING STATUS | | DATE |
|---|---|---|
| ○ | DSA PLAN CHECK | 12/23/2022 |
| ● | DSA BACK CHECK | 04/24/2023 |
| ○ | BIDDING | |
| ○ | CONSTRUCTION | |

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

ARCHITECTURAL SYMBOLS AND ABBREVIATIONS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A0.3 |
| Drawn / Checked | |
| KT / CD | |

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## CODE ANALYSIS

| BUILDING NAME | BUILDING 'A' KINDERGARTEN/ADMIN. | BUILDING 'B' CLASSROOM | BUILDING 'C' CLASSROOMS | BUILDING 'D' MULTI-USE | PORTABLE 'P1' | PORTABLE 'P2' | PORTABLE 'P3' & 'P4' | PORTABLES 'P5 & P6' |
|---|---|---|---|---|---|---|---|---|
| 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 |
| EXISTING BUILDING STORIES / BUILDING HEIGHT | 1 / 14'-0" | 1 / 16'-0" | 1 / 16'-0" | 1 / 17'-0" | 1 / 11'-0" | 1 / 11'-0" | 1 / 11'-0" | 1 / 11'-0" |
| TOTAL BUILDING AREA | 2,453 SF (B)<br>3,967 SF (E) | 8,675 SF | 8,675 SF | 5,206 SF | 2,404 SF | 960 SF | 960 SF EACH<br>= 1,920 SF TOTAL | 960 SF EACH<br>= 1,920 SF TOTAL |

## ACC. PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING ¼" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING ½" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL, ABOVE 27" AND LESS THAN 80" ABOVE THE FLOOR. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

## 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**

## KEY NOTES

| NUMBER | NOTE |
|---|---|
| 02 105 | (E) ACCESSIBLE DRINKING FOUNTAIN WITH ALCOVE RAILINGS, DSA AR62907. |
| 02 114 | (E) TOW AWAY SIGN |
| 02 115 | (E) CAMPUS ADDRESS SIGNAGE PER CBC 502.1, SEE DETAIL 16/A10.10.1 |
| 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. |
| 32 210 | (E) CHAIN LINK GATE MODIFIED TO HAVE OUTWARD SWING WITH (N) HARDWARE PER DETAIL 25/A10.4.1. |

## 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.

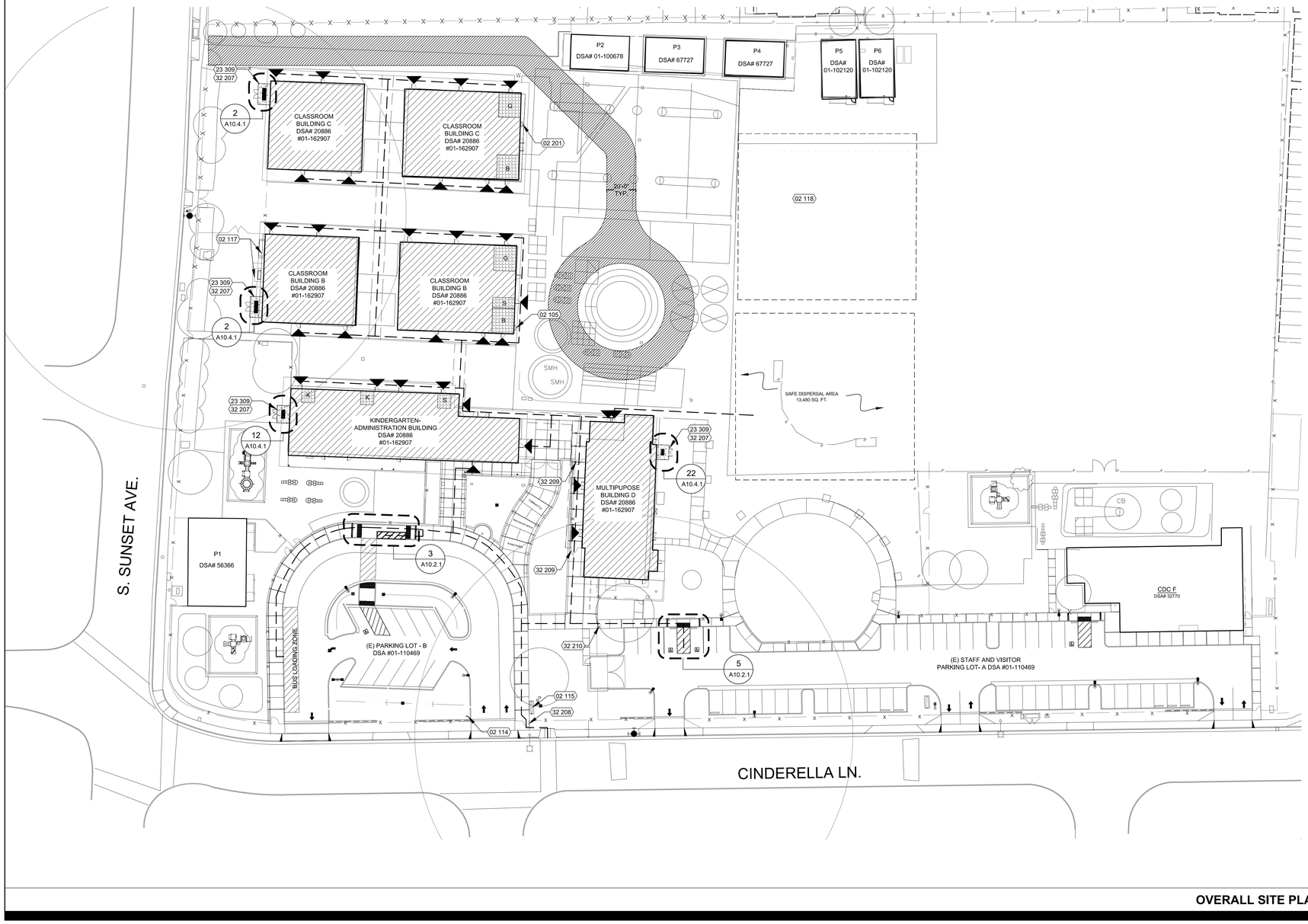
DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

## 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) 20'-0" WIDE MINIMUM CLEAR FIRE ACCESS LANE
- (N) CONCRETE
- (E) ACCESSIBLE RESTROOMS WITHIN SCOPE
  - **G** - (E) GIRLS RESTROOM
  - **B** - (E) BOYS RESTROOM
  - **S** - (E) ALL GENDER STAFF RESTROOM
  - **K** - (E) ALL GENDER 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




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

DSA STAMP

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Sacramento, California 95811
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| ARCHITECT | ENGINEER |
|---|---|
| LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 04/24/2023 | |

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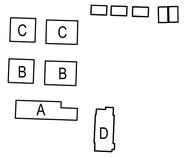
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

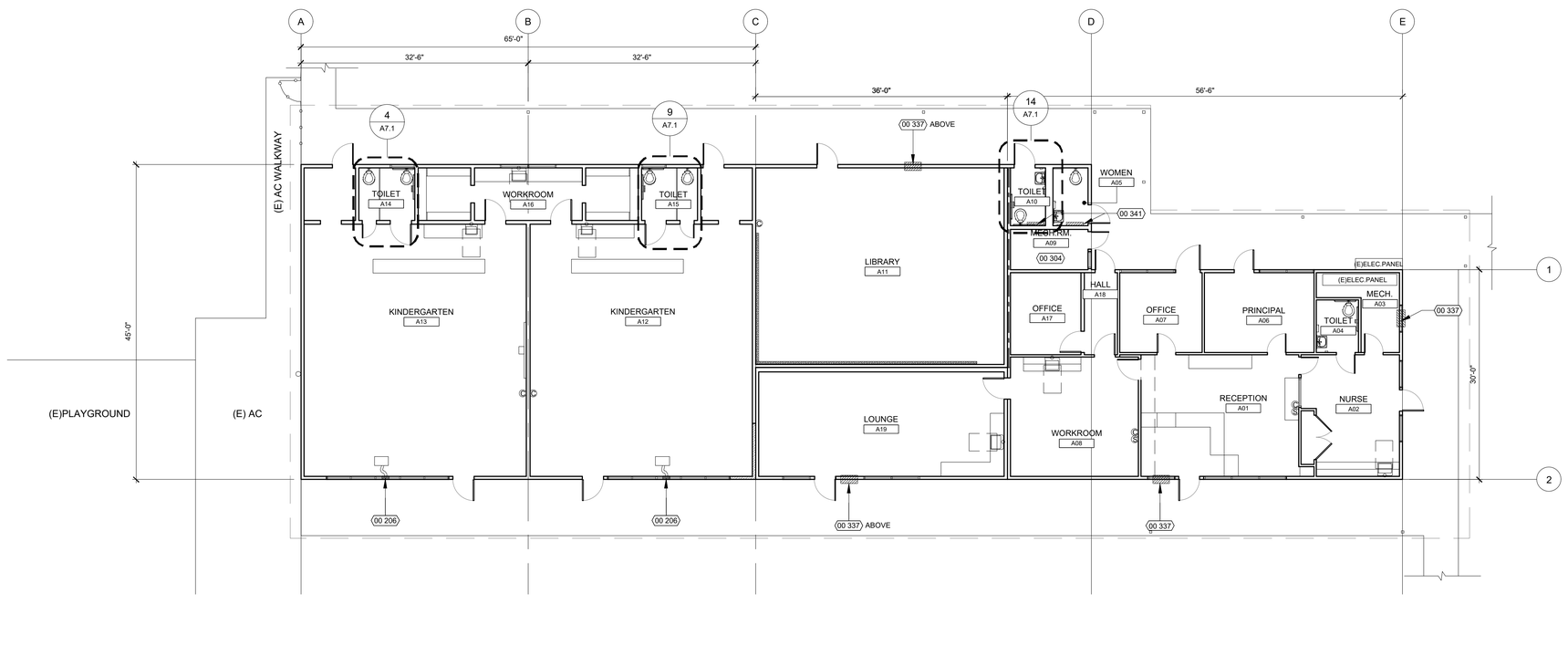
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

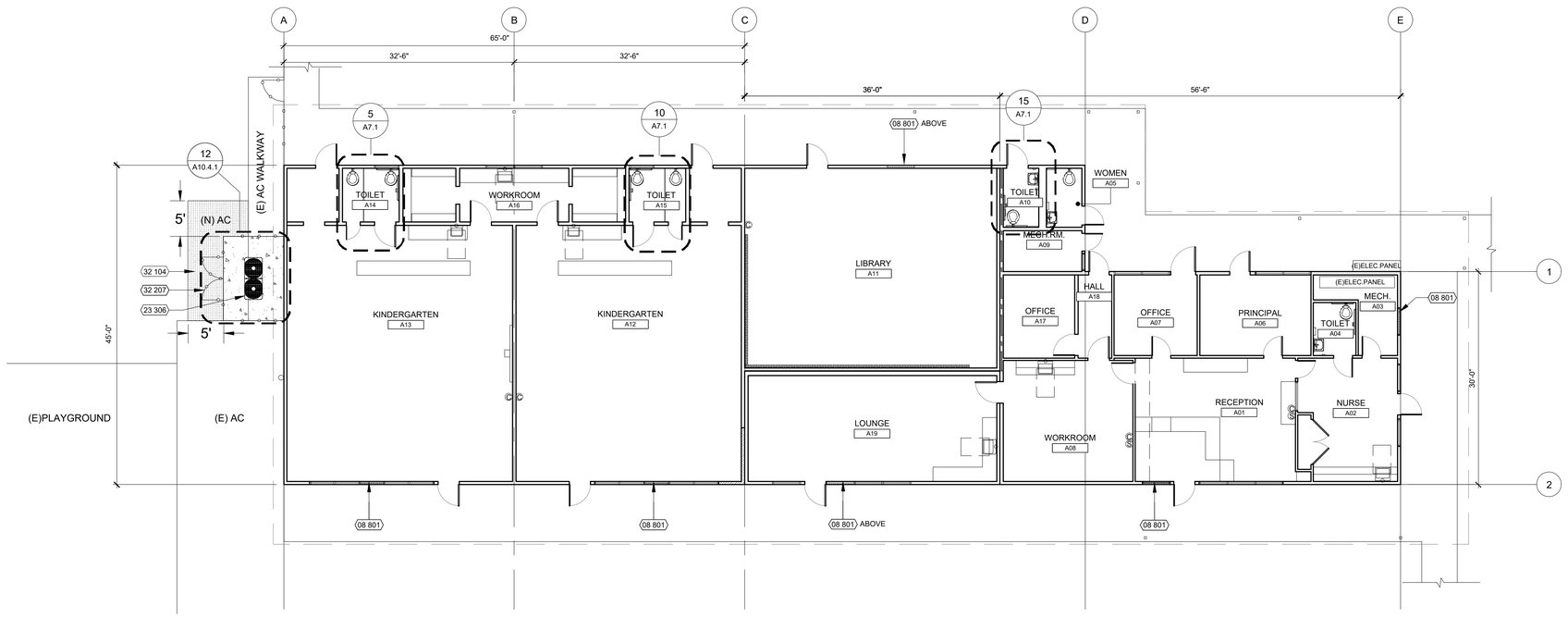
OVERALL SITE PLAN

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A1.1 |
| Drawn KT | Checked CD |




## DEMO FLOOR PLAN - ADMIN. & KINDERGARTEN - BUILDING A

1/8" = 1'-0" 5




## 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. |
| 00 341 | REMOVE (E) WALL MOUNTED HEATER UNIT. PATCH, PAINT, AND REPAIR GYP. BOARD WHERE REQUIRED. |
| 08 801 | NEW GLAZING AND/OR ALUMINUM PANEL WITHIN EXISTING FRAME TO MATCH ADJACENT. |
| 23 306 | NEW HEAT PUMP UNIT OVER NEW CONCRETE PAD. SEE MECHANICAL /PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK. |
| 32 104 | NEW AC SIDEWALK TO CONNECT TO (E) SIDEWALK, AROUND NEW HVAC 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. SEE DETAIL 12/A10.4.1. |

## GENERAL NOTES

GENERAL

1. GENERAL CONTRACTOR SHALL SURVEY AREA FOR UNDERGROUND UTILITY LOCATIONS PRIOR TO DEMOLITION AND NEW WORK ON SITE.
2. ROOM NAMES AND NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION FLOOR PLANS AND NEW FLOOR PLANS.
3. REFER TO MECHANICAL/PLUMBING AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL/PLUMBING AND ELECTRICAL DEMOLITION WORK AND NEW CONSTRUCTION.
4. 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 DEMOLITIONINEW 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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STUDIO W ARCHITECTS

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Sacramento, California 95811
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| ARCHITECT | ENGINEER |
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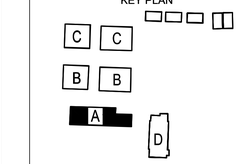
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KEY PLAN




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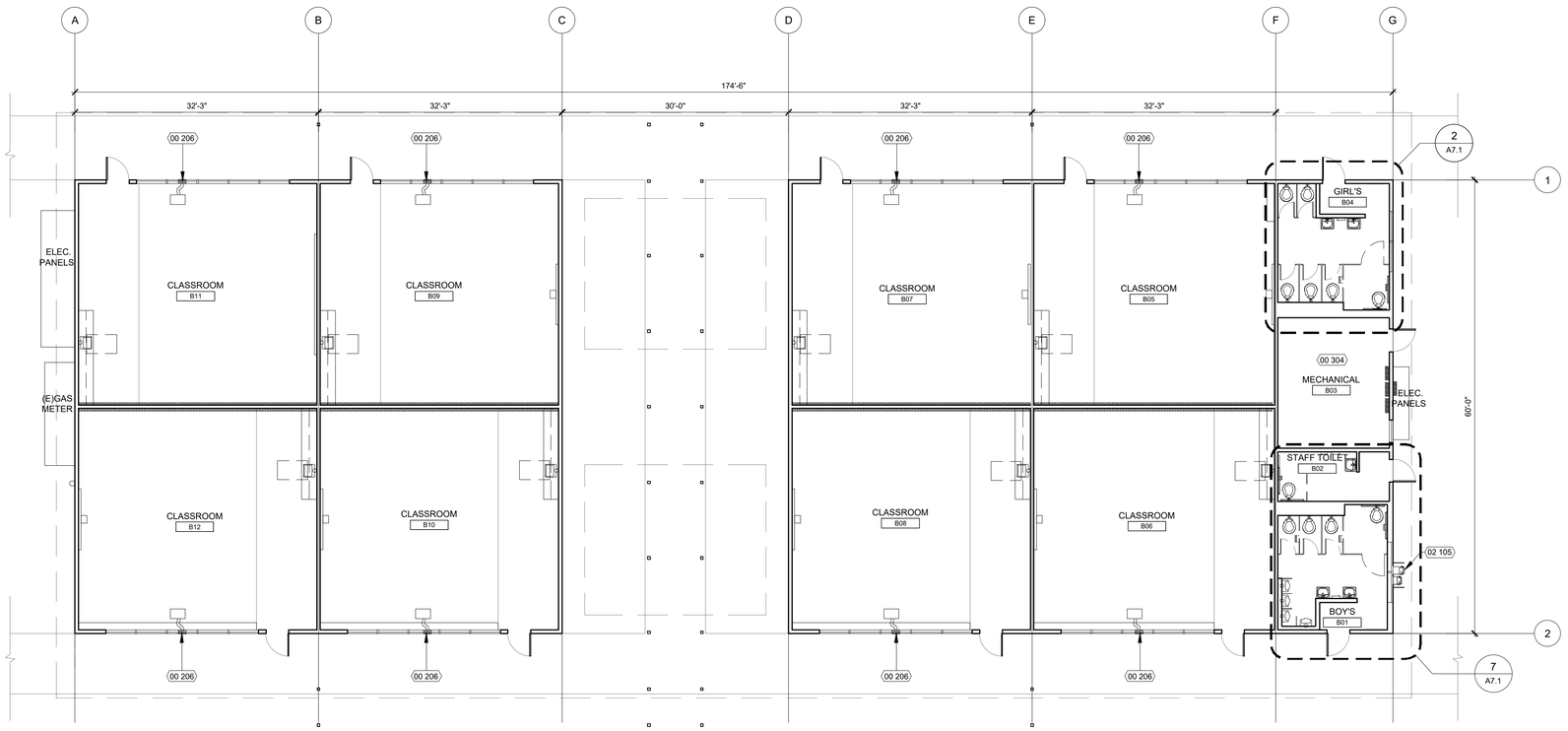
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# DEMO & NEW FLOOR PLAN - ADMIN. & KINDERGARTEN - BUILDING A

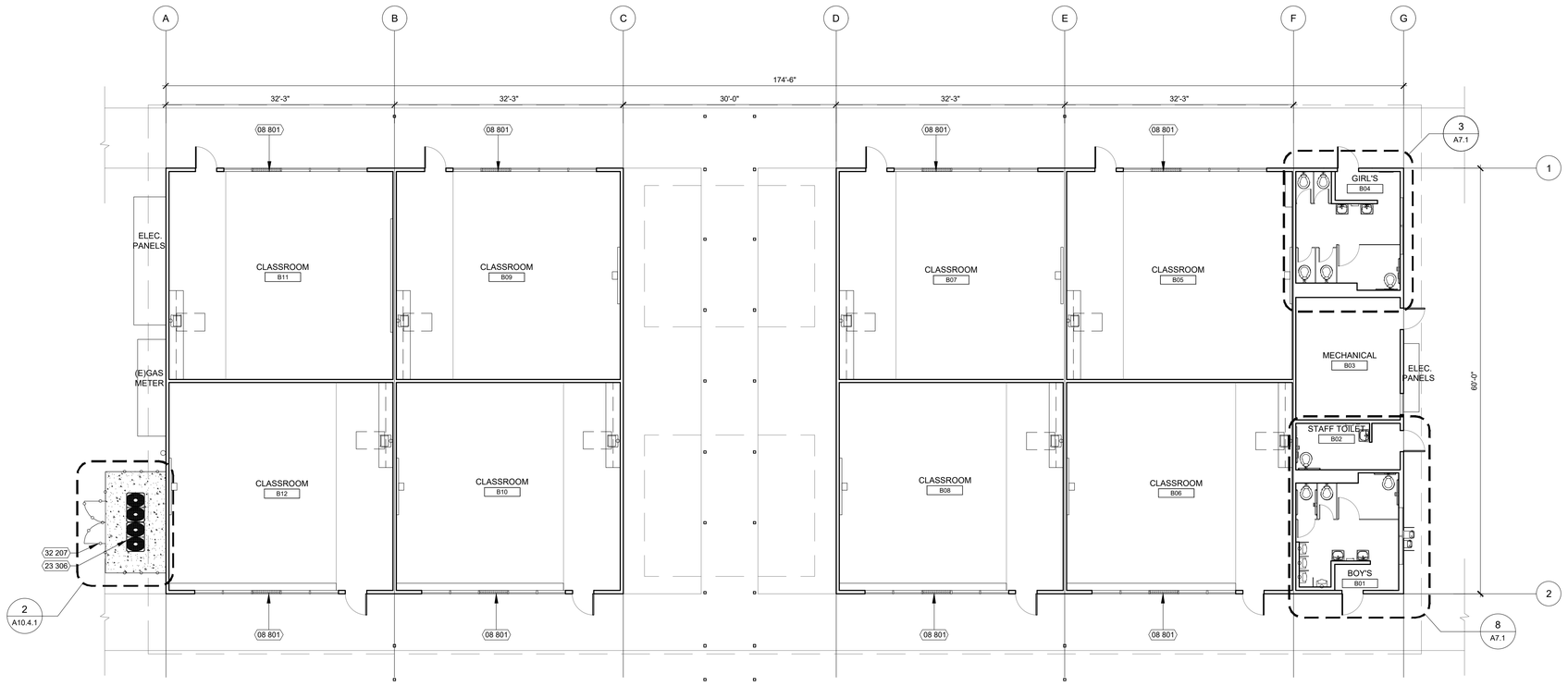
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|---|---|
| Date | Project Number |
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A2.1 |
| Drawn KT | Checked CD |




## 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. |
| 02 105 | (E)ACCESSIBLE DRINKING FOUNTAIN WITH ALCOVE RAILINGS, DSA AI62907. |
| 08 801 | NEW GLAZING AND/OR ALUMINUM PANEL WITHIN EXISTING FRAME TO MATCH ADJACENT. |
| 23 306 | NEW HEAT PUMP UNIT OVER NEW CONCRETE PAD. SEE MECHANICAL /PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK. |
| 32 207 | NEW WIRE CAGE WITH TOP COVERS AROUND HVAC EQUIPMENT. SEE DETAIL 2/A10.4.1. |

## GENERAL NOTES

GENERAL

1. GENERAL CONTRACTOR SHALL SURVEY AREA FOR UNDERGROUND UTILITY LOCATIONS PRIOR TO DEMOLITION AND NEW WORK ON SITE.
2. ROOM NAMES AND NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION FLOOR PLANS AND NEW FLOOR PLANS.
3. REFER TO MECHANICAL/PLUMBING AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL/PLUMBING AND ELECTRICAL DEMOLITION WORK AND NEW CONSTRUCTION.
4. 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

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

DSA STAMP

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1930 H St.
Sacramento, California 95811
[ T ] 916.254.5600
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| ARCHITECT | ENGINEER |
|---|---|

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

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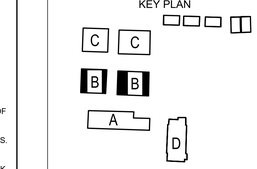
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

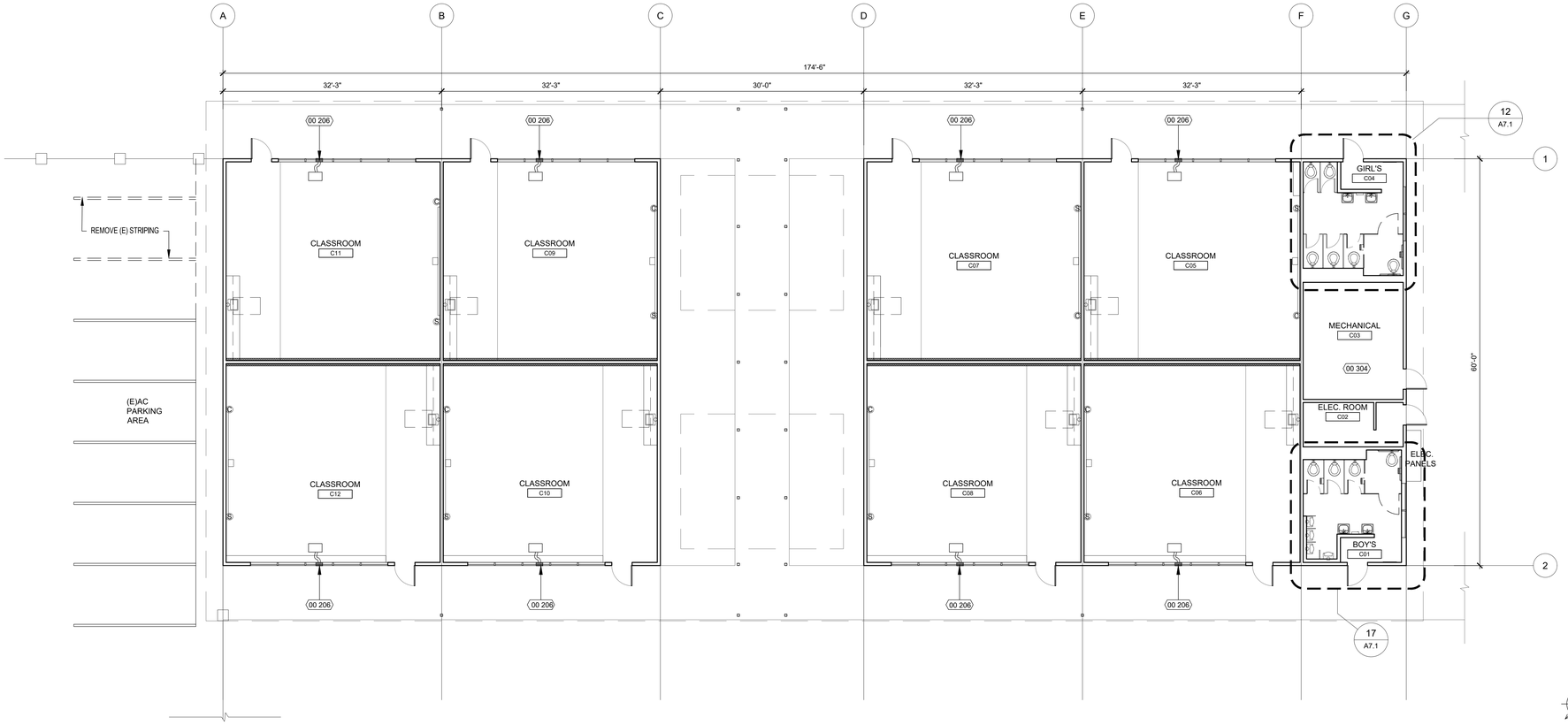
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

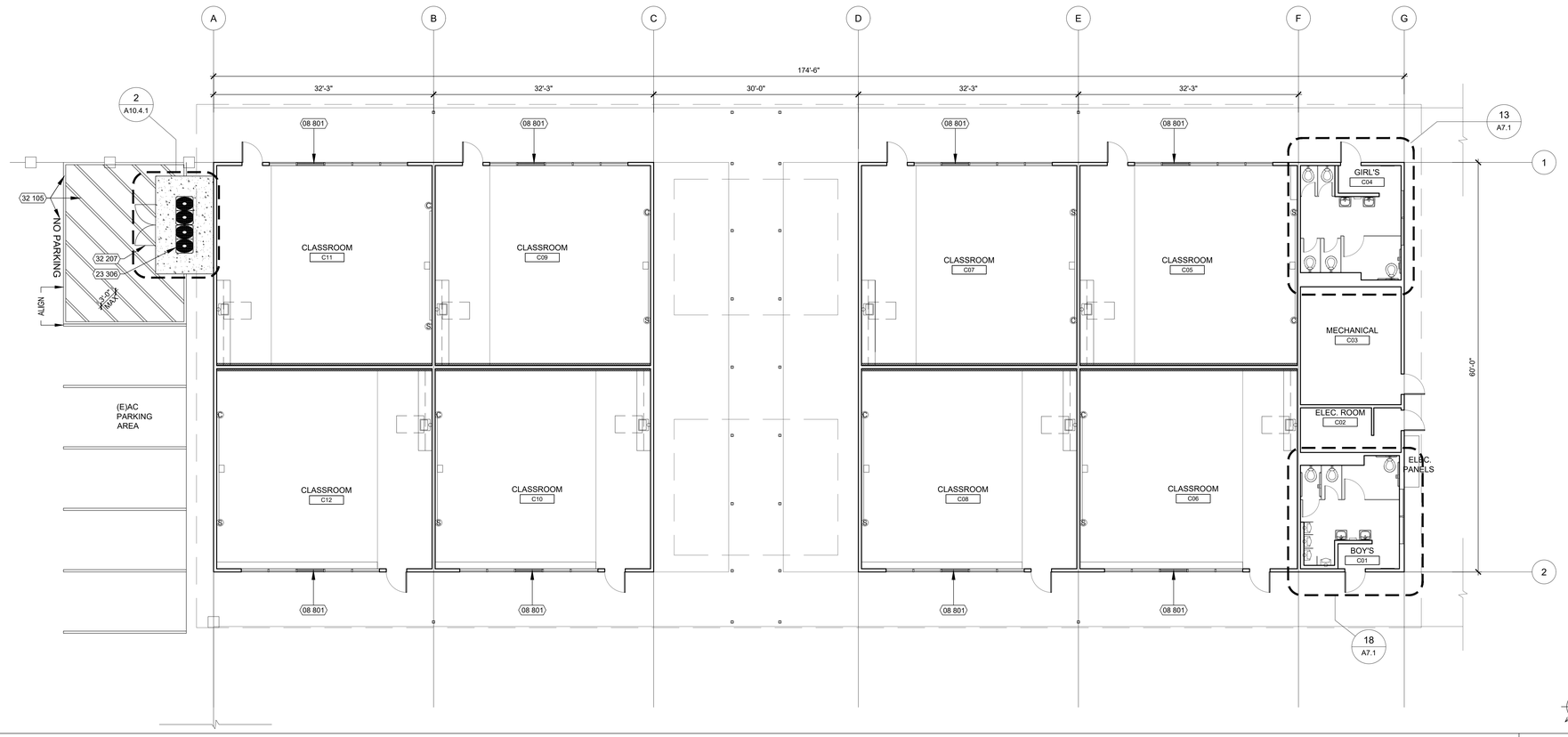
# DEMO & NEW FLOOR PLAN - CLASSROOM - BUILDING B

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A2.2 |
| 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. |
| 08 801 | NEW GLAZING AND/OR ALUMINUM PANEL WITHIN EXISTING FRAME TO MATCH ADJACENT. |
| 23 306 | NEW HEAT PUMP UNIT OVER NEW CONCRETE PAD, SEE MECHANICAL/ PLUMB. AND ELEC. DRAWINGS FOR EXTENT OF WORK. |
| 32 105 | 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. SEE DETAIL 2/A10.4.1. |

## GENERAL NOTES

GENERAL

1. GENERAL CONTRACTOR SHALL SURVEY AREA FOR UNDERGROUND UTILITY LOCATIONS PRIOR TO DEMOLITION AND NEW WORK ON SITE.
2. ROOM NAMES AND NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION FLOOR PLANS AND NEW FLOOR PLANS.
3. REFER TO MECHANICAL/PLUMBING AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL/PLUMBING AND ELECTRICAL DEMOLITION WORK AND NEW CONSTRUCTION.
4. 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.
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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.
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DEMOLITION

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

DSA STAMP


STUDIO W ARCHITECTS

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


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

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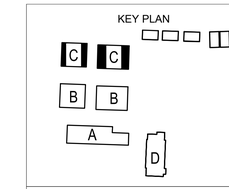
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN



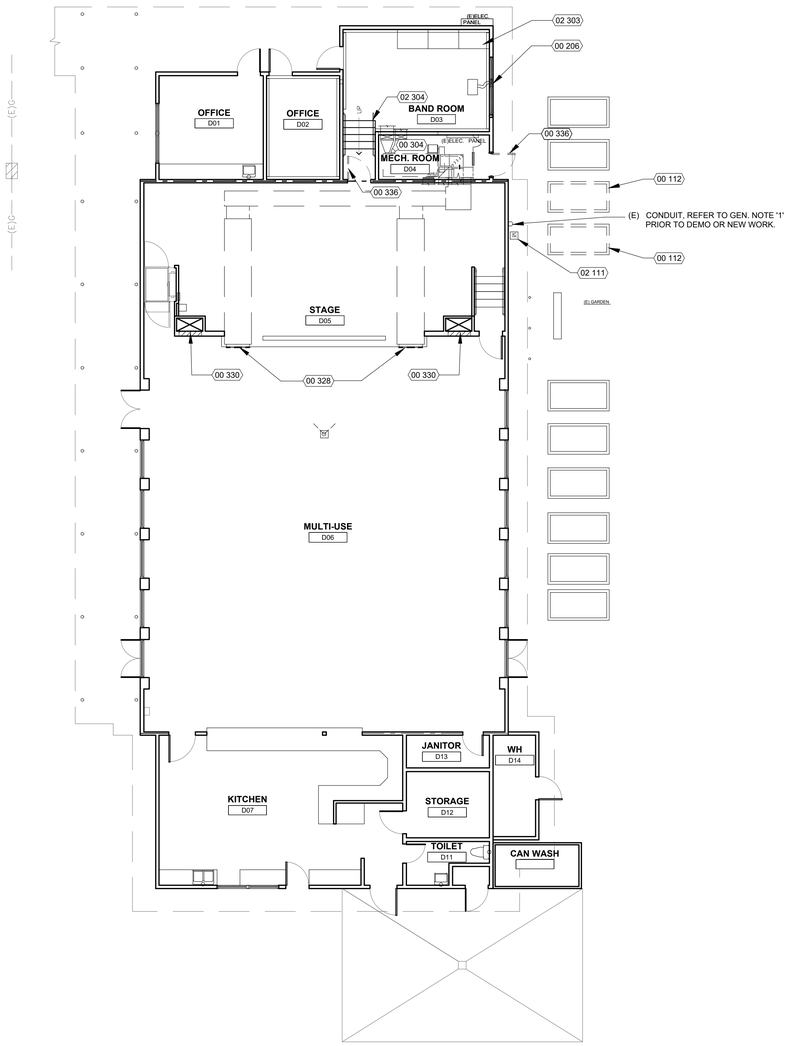

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

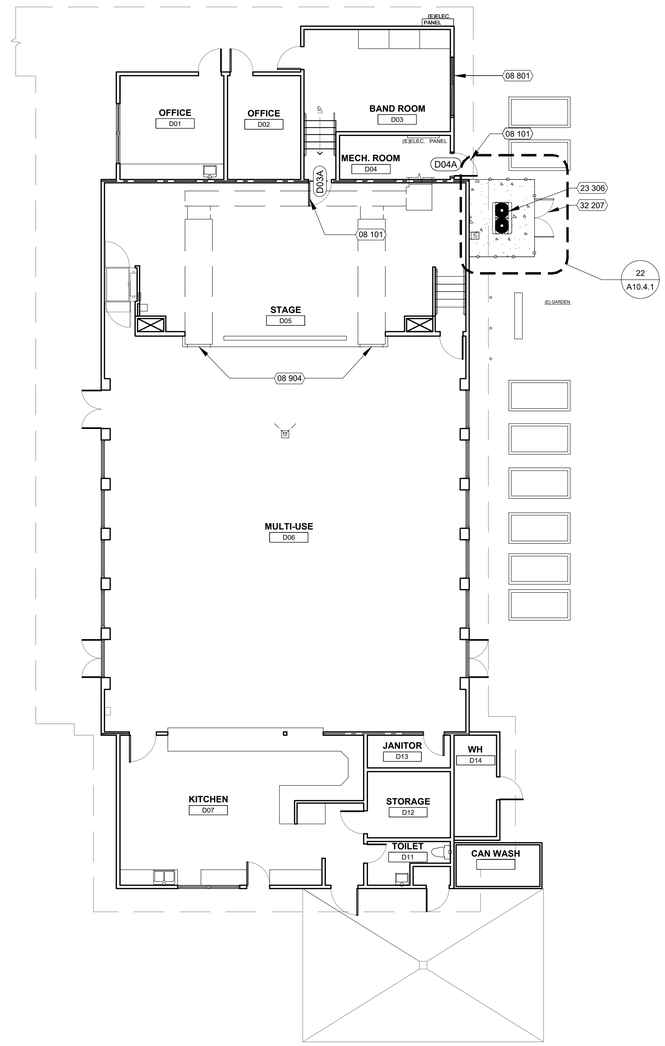
ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

# DEMO & NEW FLOOR PLAN - CLASSROOM - BUILDING C

| Date | Project Number |
|---|---|
| 04/24/2023 | 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




**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. |
| 00 328 | 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 GRILLE ABOVE, PREPARE FOR NEW SUPPLY DUCT ROUTE. SEE MECH. DWGS. |
| 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 A10.8. |
| 08 801 | NEW GLAZING AND/OR ALUMINUM PANEL WITHIN EXISTING FRAME TO MATCH ADJACENT. |
| 08 904 | NEW LOUVERS AT STAGE WALL, FRAME AROUND W/2X AND PAINTED 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. |
| 32 207 | NEW WIRE CAGE WITH TOP COVERS AROUND HVAC EQUIPMENT. SEE DETAIL 22/A10.4.1. |

## GENERAL NOTES

GENERAL

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3. REFER TO MECHANICAL/PLUMBING AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL/PLUMBING AND ELECTRICAL DEMOLITION WORK AND NEW CONSTRUCTION.
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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.
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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
- (E) 1-HR RATED STUD WALL
- (E) WIREMOLD BELOW CEILING
- LINE OF ROOF, SKYLIGHT, OR SOFFIT OVERHEAD - SHOWN DASHED
- A101A — DOOR NUMBER, SEE DOOR SCHEDULE

DSA STAMP


STUDIO W ARCHITECTS

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


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

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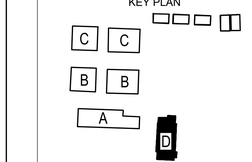
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

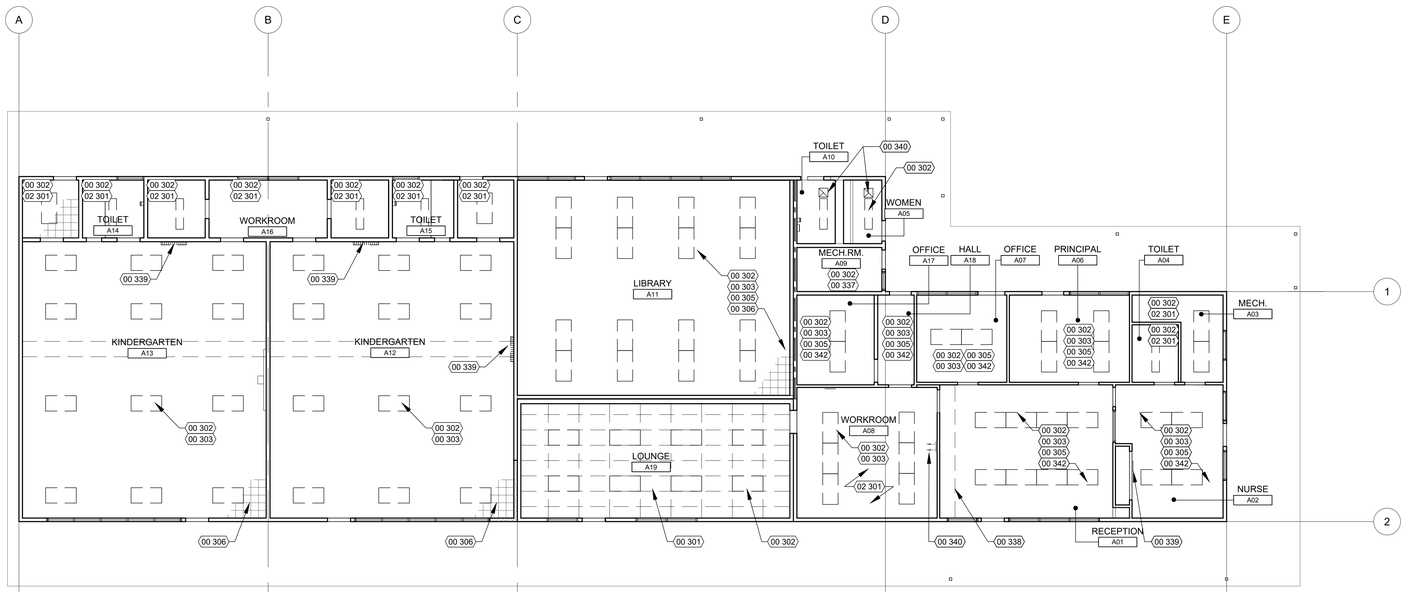
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

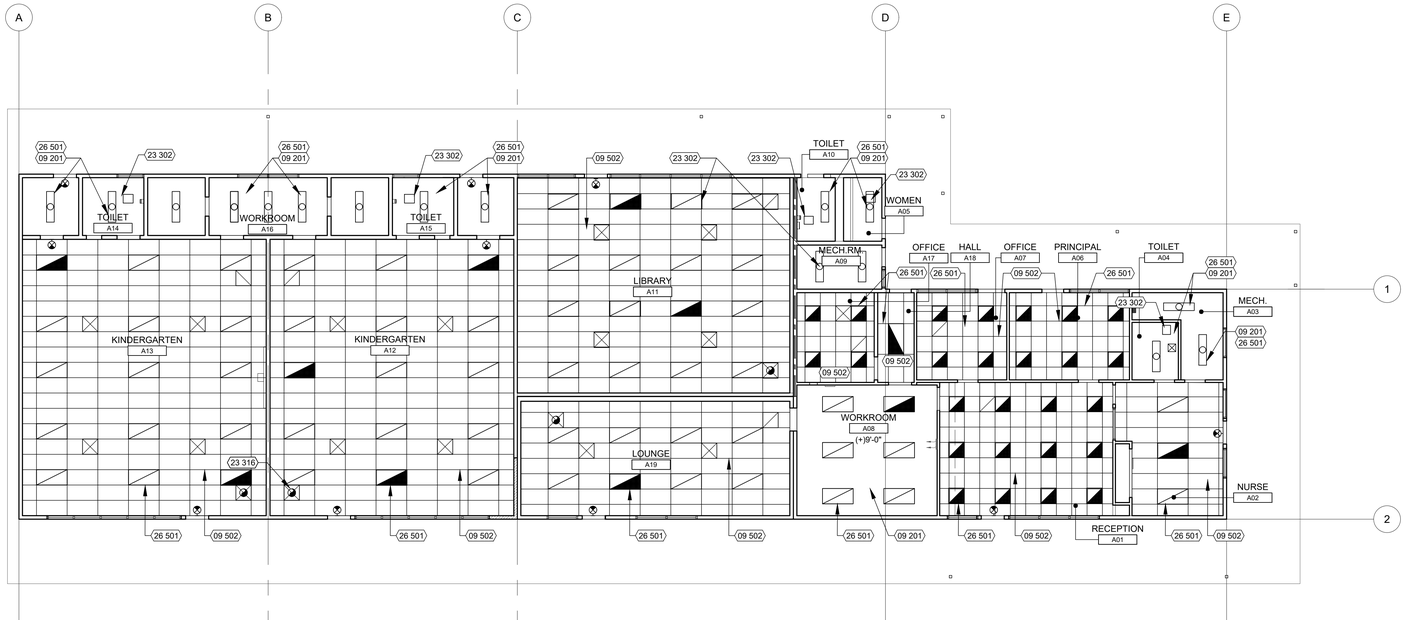
# DEMO & NEW FLOOR PLAN - MULTI-USE - BUILDING D

| Date | Project Number |
|---|---|
| 04/24/2023 | 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 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.
- 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.

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STUDIO W ARCHITECTS

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1930 H St.
Sacramento, California 95811
[ T ] 916.254.5600
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| ARCHITECT | ENGINEER |
|---|---|
| LICENSED ARCHITECT BRYAN P WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023 | |

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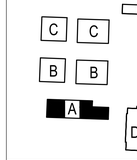
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN



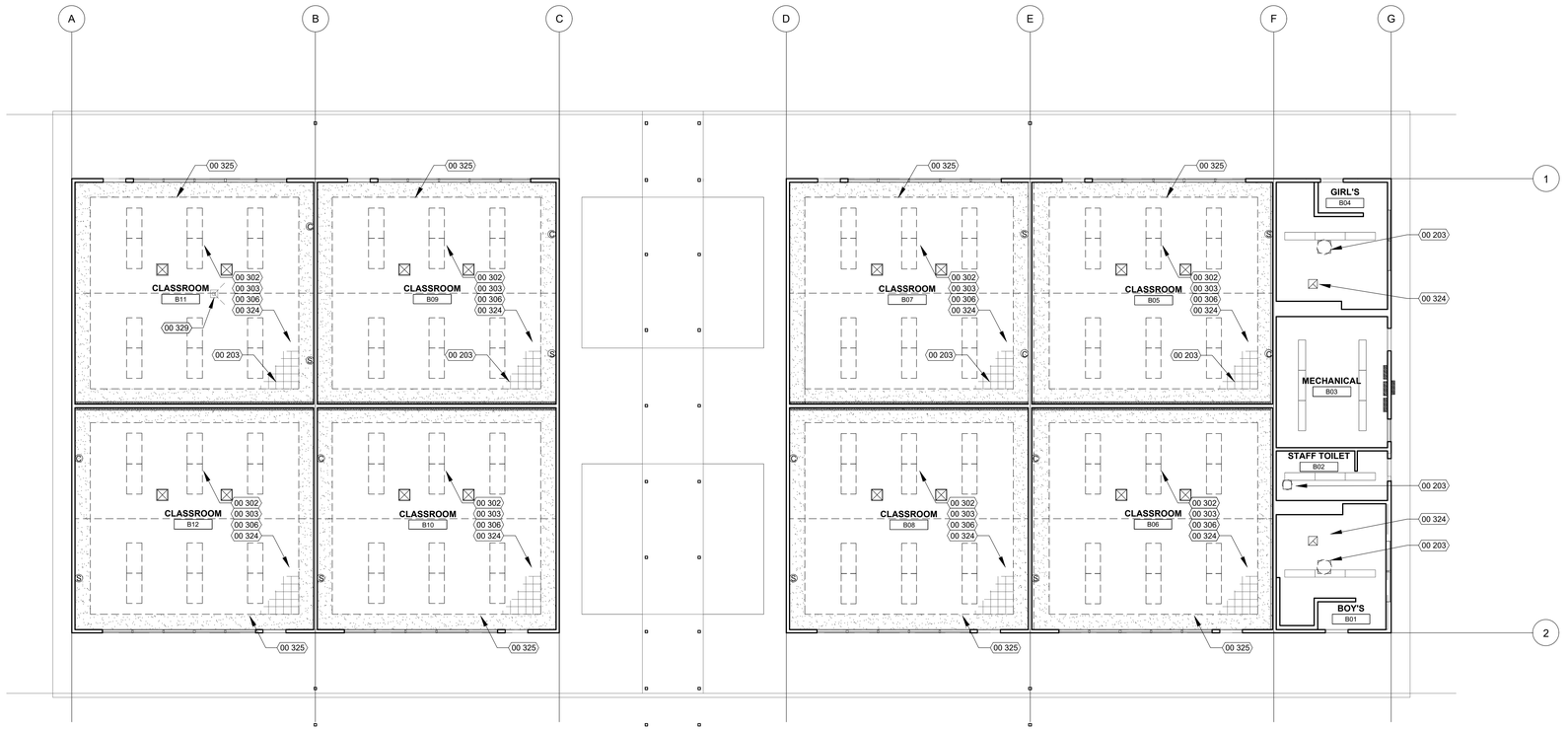

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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

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

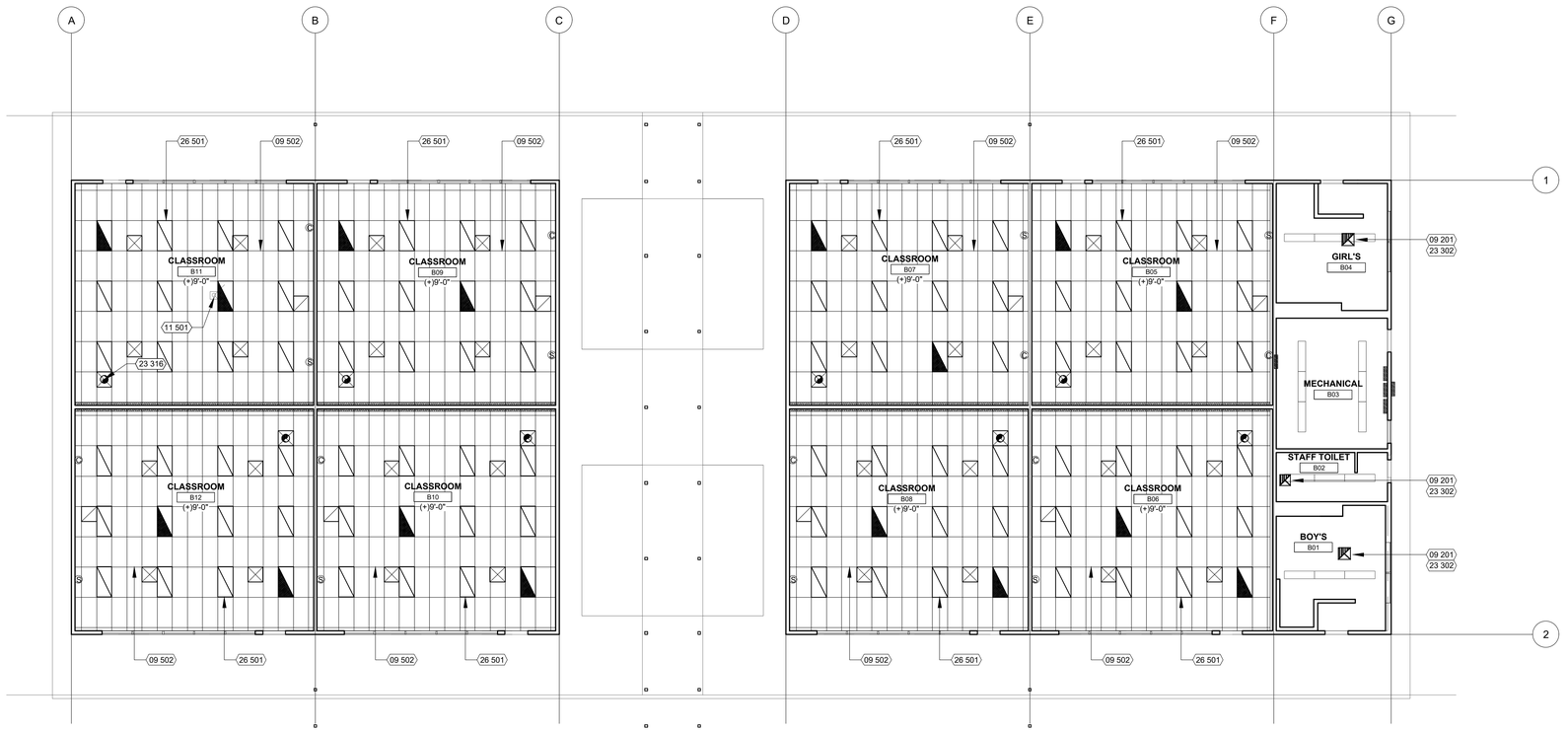
| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A3.1 |
| Drawn / Checked | |
| KT / CD | |




## DEMO REFLECTED CEILING PLAN - CLASSROOM - BUILDING B

1/8" = 1'-0"

5




## NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING B

1/8" = 1'-0"

10

## 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 PATCHREPAIR 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 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.
- 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

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


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

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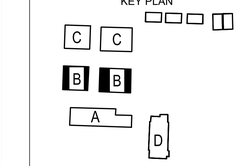
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

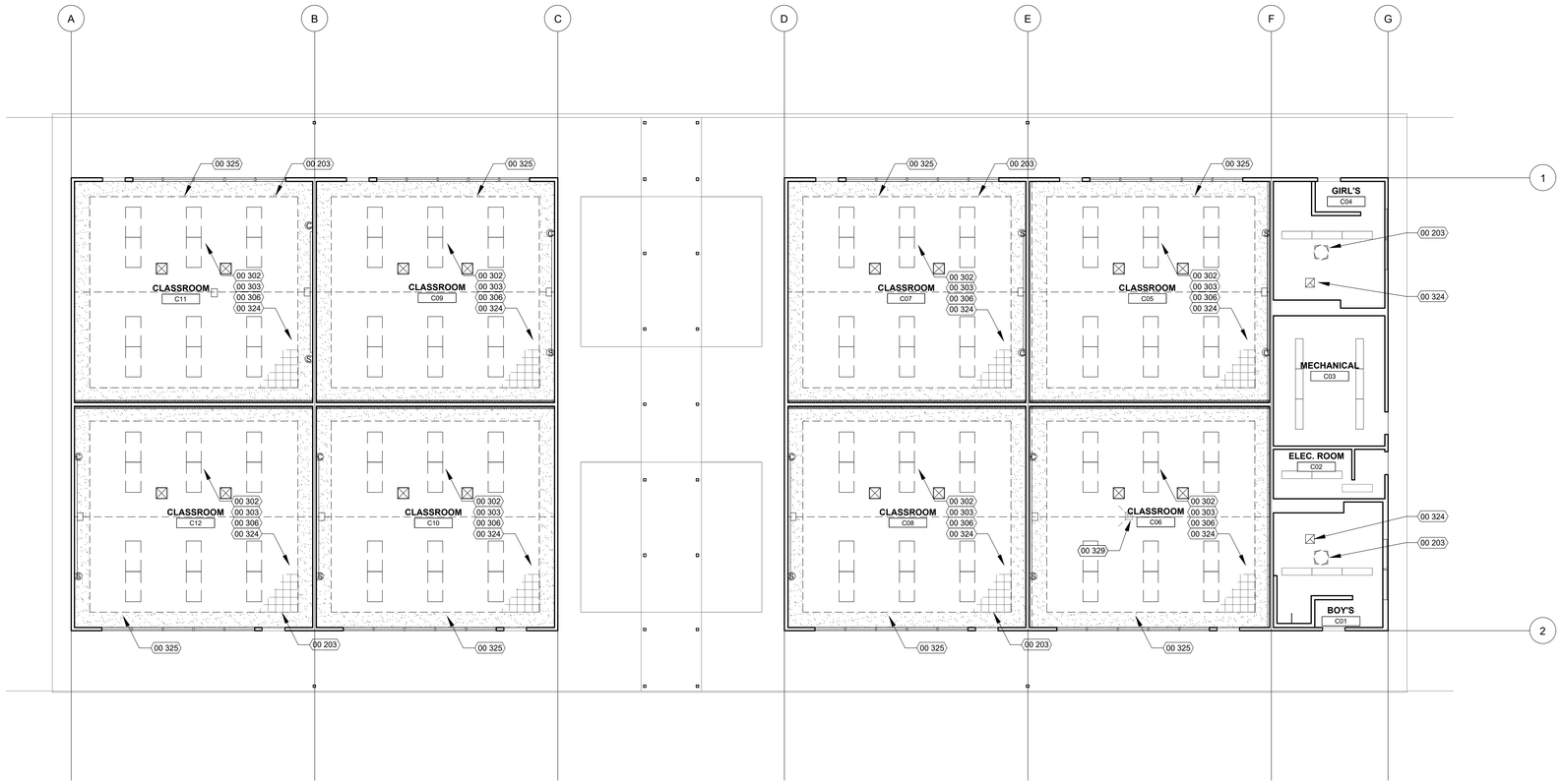
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

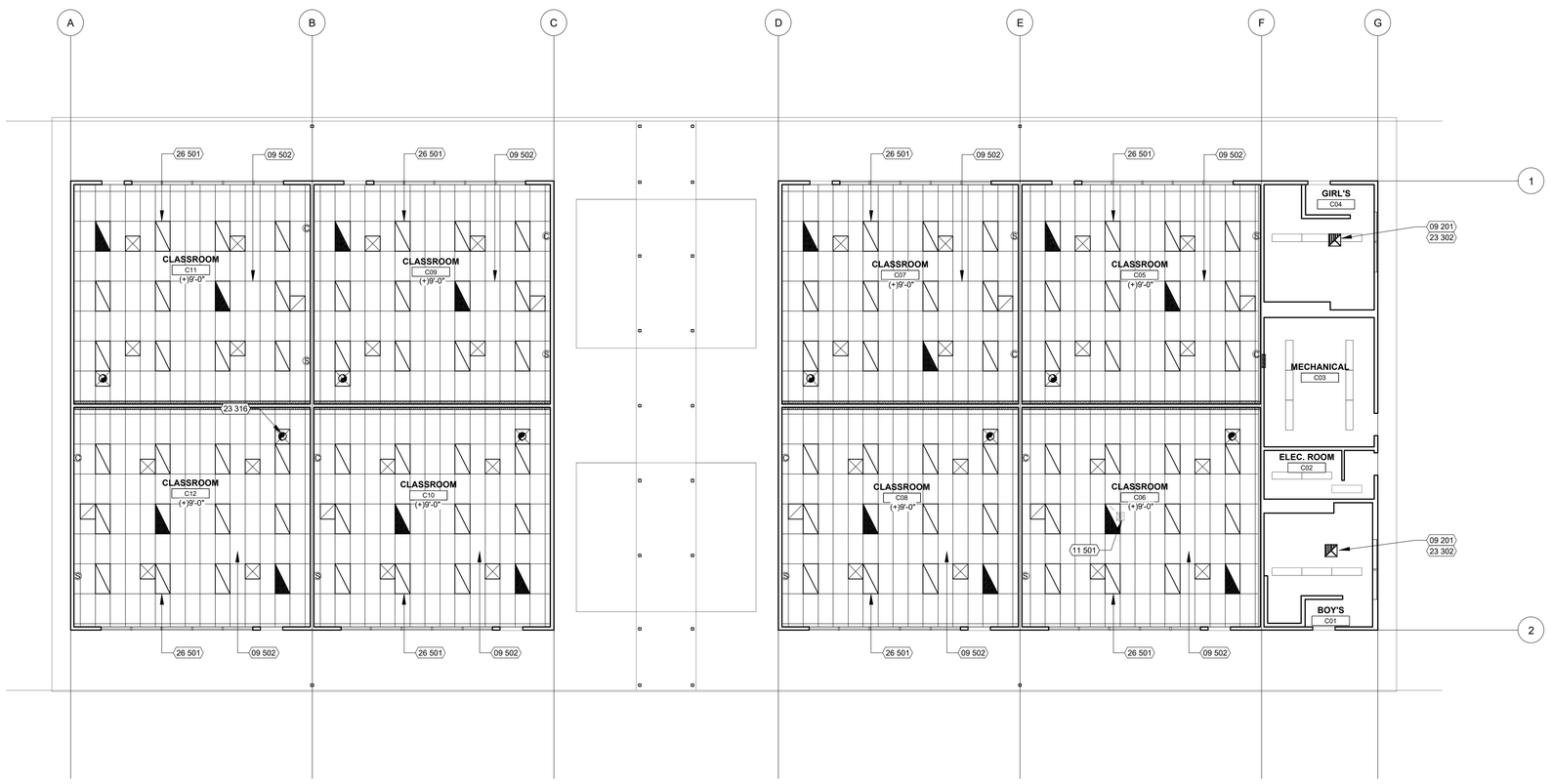
# DEMO & NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING B

| Date | Project Number |
|---|---|
| 04/24/2023 | 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"
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3. PROVIDE ACCESS PANELS TO ENCLOSED AREAS ABOVE GYPSUM BOARD CEILINGS. CENTER AND ALIGN TO LIGHT FIXTURES, AND OTHER CEILING FIXTURES PER PLAN.
4. CEILING SYSTEM SHOULD BE CENTERED WITHIN EACH ROOM AS WELL AS ALIGNED WITH THE STRUCTURAL GRID, U.O.N.
5. CEILING SYSTEM SHALL BE COORDINATED WITH THE LIGHTING & ELECTRICAL PLANS.
6. PAINT GYP. BD. CEILINGS AND SOFFITS P-1 U.O.N. (PAINT FINISH TO BE SAME AT FACE AND UNDERSIDE OF SOFFITS.) REFER TO ROOM FINISH SCHEDULE FOR COLOR SELECTIONS.
7. PAINT EXPOSED CEILINGS AND EQUIPMENT PER FINISH SCHEDULE.
8. NO EXPOSED NAILS OR SCREWS ARE ALLOWED.
9. REMOVE EXISTING PROJECTORS AS NEEDED FOR INSTALLATION OF NEW CEILINGS/SOFFITS, THEN RE-INSTALL PROJECTORS AFTER INSTALLATION OF NEW CEILINGS/SOFFITS.

EQUIPMENT
1. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SUPPORTS & BRACING. ELECTRICAL DEVICES ARE SHOWN FOR LOCATION IN RELATION TO LIGHT FIXTURES AND MECHANICAL DIFFUSERS IN SELECT AREAS. FOR FIXTURE INFORMATION SEE ELECTRICAL DRAWINGS.
2. SEE MECHANICAL AND PLUMBING DRAWINGS FOR DIFFUSERS AND PIPE CHASES.
3. SEE FIRE PROTECTION DETAILS FOR PENETRATIONS THROUGH RATED WALLS, WHERE OCCURS.
4. SINGLE LIGHT FIXTURES IN GYP. BD. CEILINGS SHALL BE CENTERED IN ROOM.
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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.

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

(E) 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.

DSA STAMP

STUDIO W ARCHITECTS

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

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

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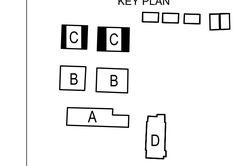
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN



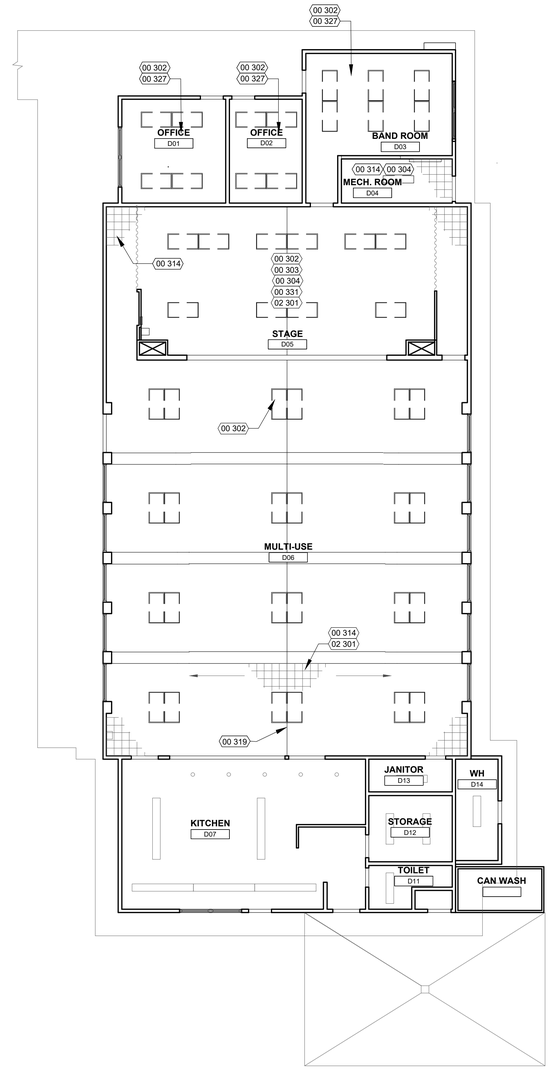

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

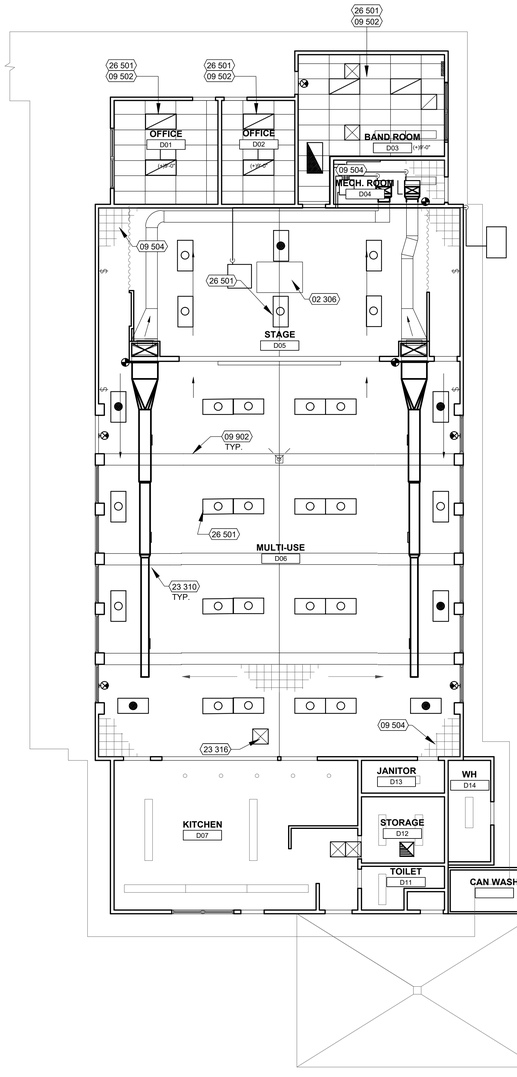
ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

# DEMO & NEW REFLECTED CEILING PLAN - CLASSROOM - BUILDING C

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A3.3 |
| Drawn / Checked | |
| KT / CD | |




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




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 QUANTITIES AND LAYOUT IN FIELD. |
| 00 303 | REMOVE AND REPLACE EXISTING HVAC DUCT, REFER TO MECHANICAL DWGS. FOR EXTENT OF WORK. |
| 00 304 | REMOVE AND REPLACE 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 21/A10.9.2.
3. PROVIDE ACCESS PANELS TO ENCLOSED AREAS ABOVE GYPSUM BOARD CEILINGS. CENTER AND ALIGN TO LIGHT FIXTURES, AND OTHER CEILING FIXTURES PER PLAN.
4. CEILING SYSTEM SHOULD BE CENTERED WITHIN EACH ROOM AS WELL AS ALIGNED WITH THE STRUCTURAL GRID, U.O.N.
5. CEILING SYSTEM SHALL BE COORDINATED WITH THE LIGHTING & ELECTRICAL PLANS.
6. PAINT GYP. BD. CEILINGS AND SOFFITS P-1 U.O.N. (PAINT FINISH TO BE SAME AT FACE AND UNDERSIDE OF SOFFITS.) REFER TO ROOM FINISH SCHEDULE FOR COLOR SELECTIONS.
7. PAINT EXPOSED CEILINGS AND EQUIPMENT PER FINISH SCHEDULE.
8. NO EXPOSED NAILS OR SCREWS ARE ALLOWED.
9. REMOVE EXISTING PROJECTORS AS NEEDED FOR INSTALLATION OF NEW CEILINGS/SOFFITS, THEN RE-INSTALL PROJECTORS AFTER INSTALLATION OF NEW CEILINGS/SOFFITS.

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

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

## LEGEND

- (E) 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 SETH P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023 | |

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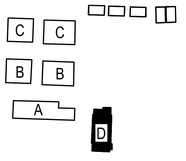
REVISION HISTORY

| NO. | REMARKS | DATE |
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DRAWING STATUS

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

KEY PLAN



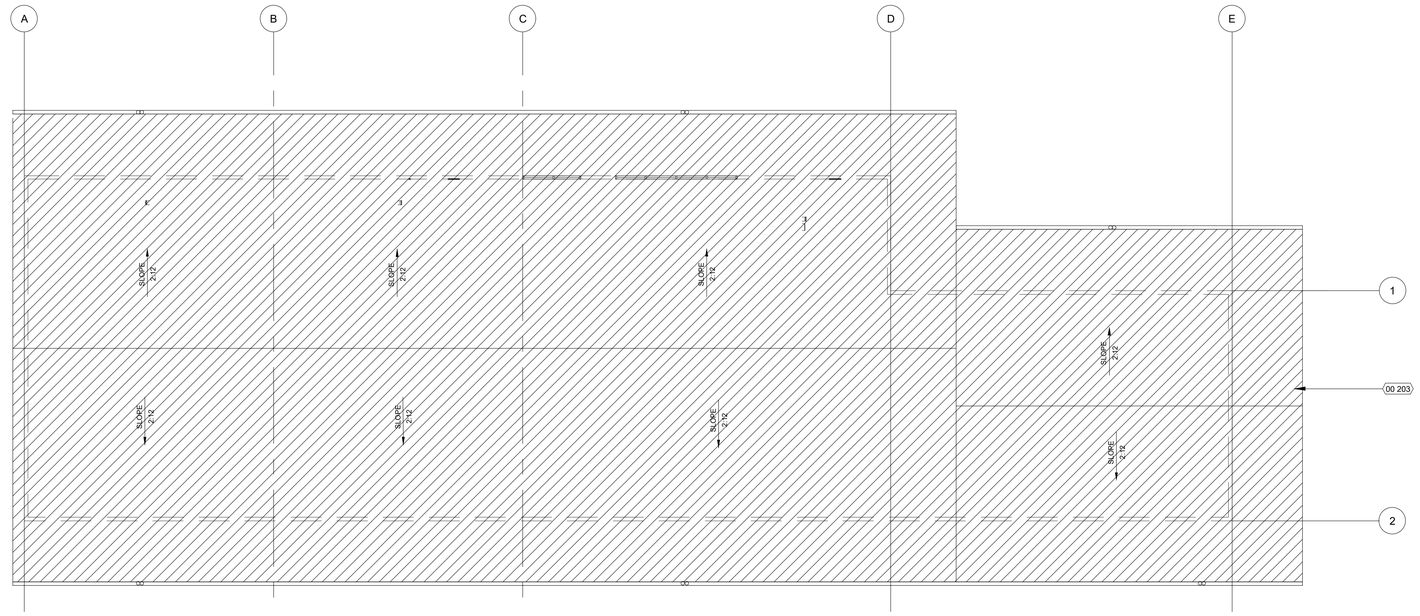

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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

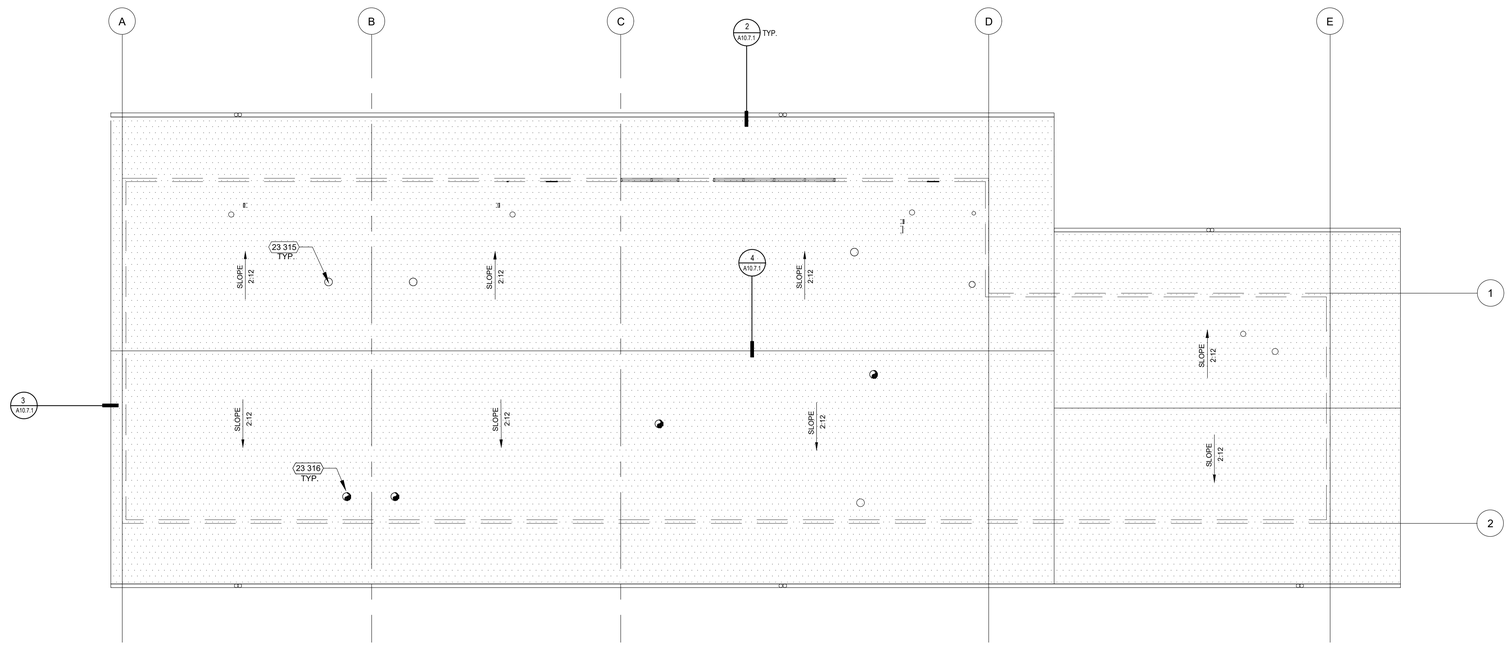
DEMO & NEW REFLECTED CEILING PLAN - MULTI-USE - BUILDING D

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A3.4 |
| Drawn / Checked | |
| KT / CD | |




N

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




N

**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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| ARCHITECT | ENGINEER |
|---|---|
| LICENSED ARCHITECT SETRAK P. KIH / MORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED: 04/24/2023 | |

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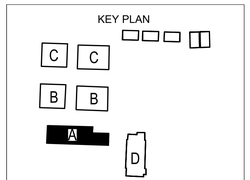
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
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DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

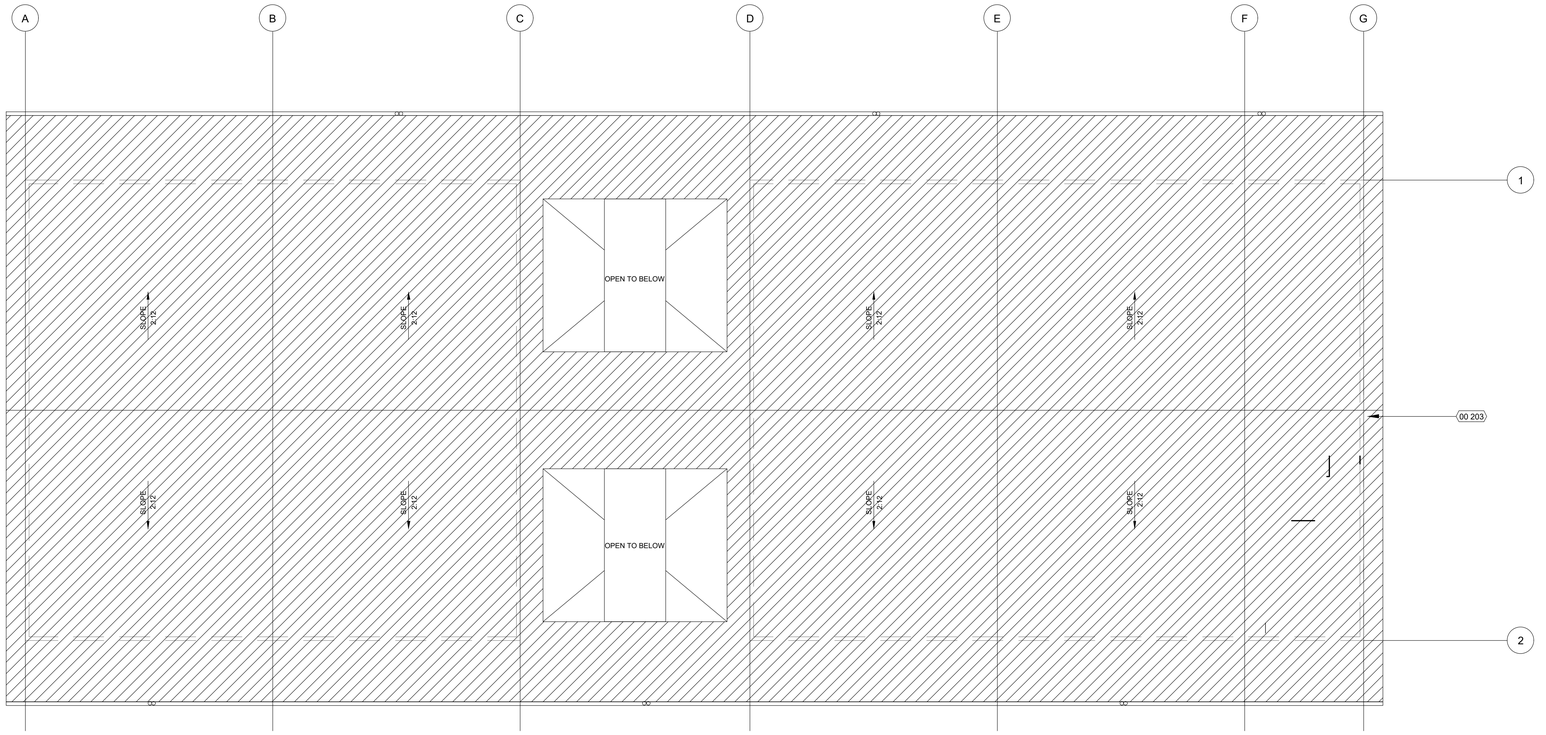
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

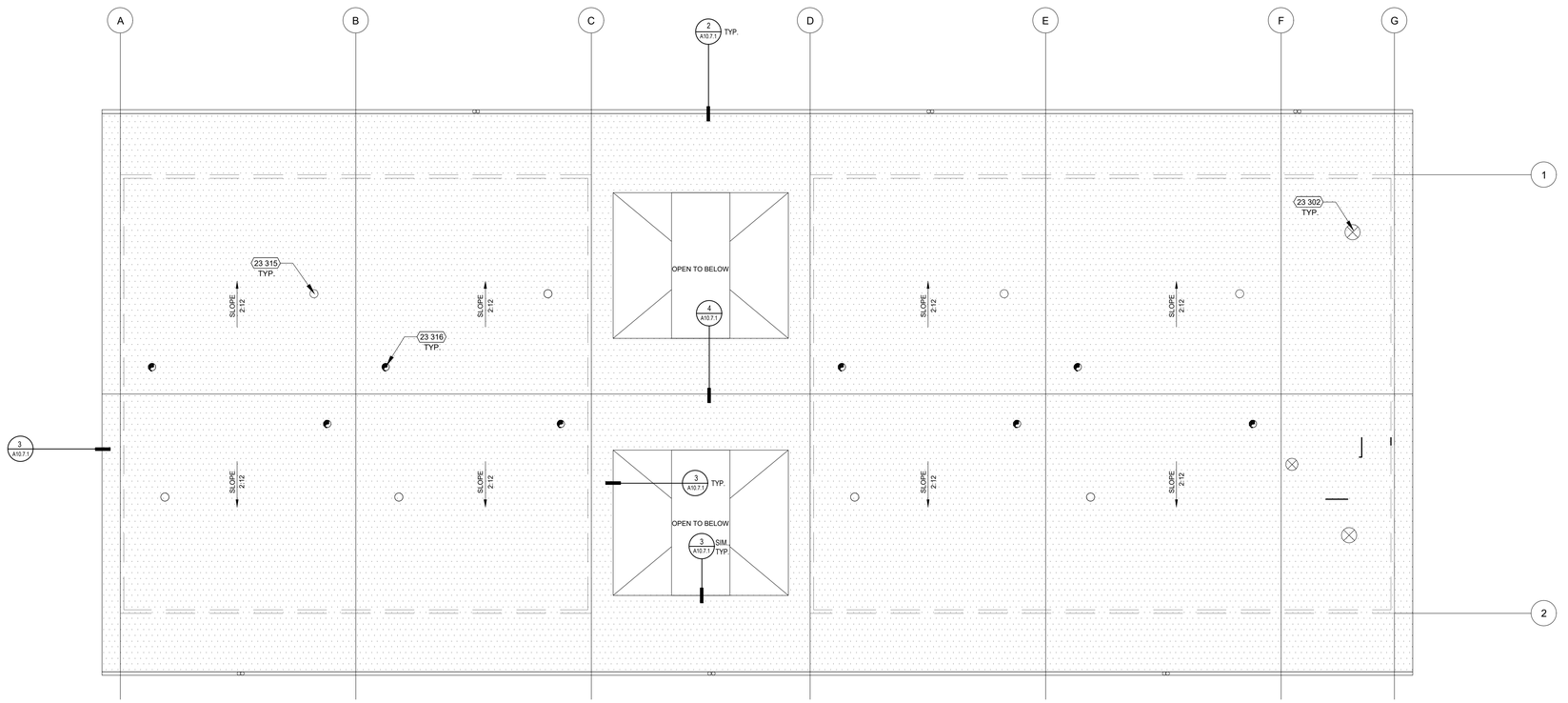
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

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

| | |
|---|---|
| Date 04/24/2023 | Project Number 22025 |
| Application Number 01-120630 | Drawing Number 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

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.
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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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| ARCHITECT | ENGINEER |
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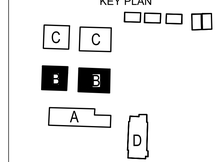
REVISION HISTORY

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

KEY PLAN



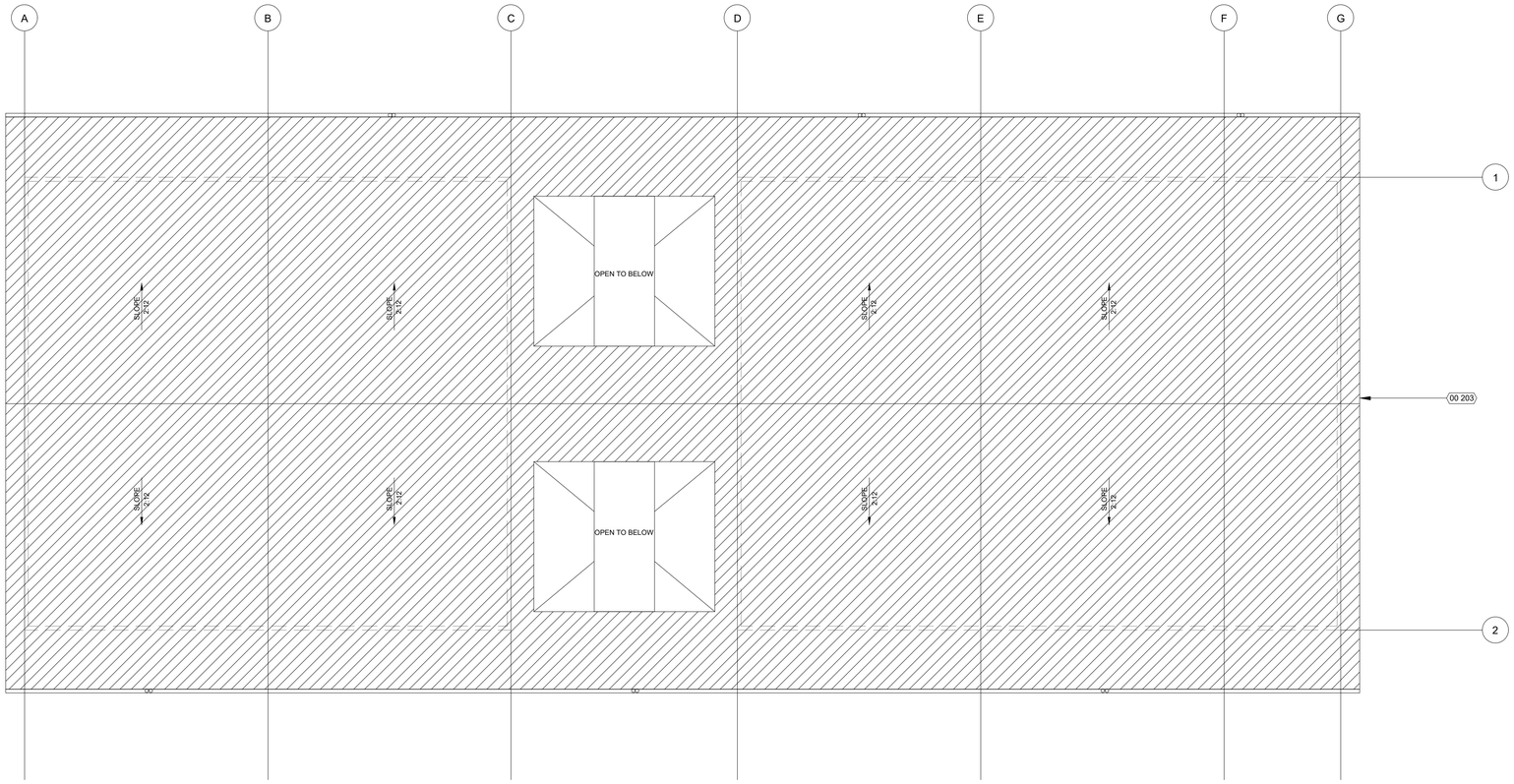

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CONSTRUCTION DOCUMENTS

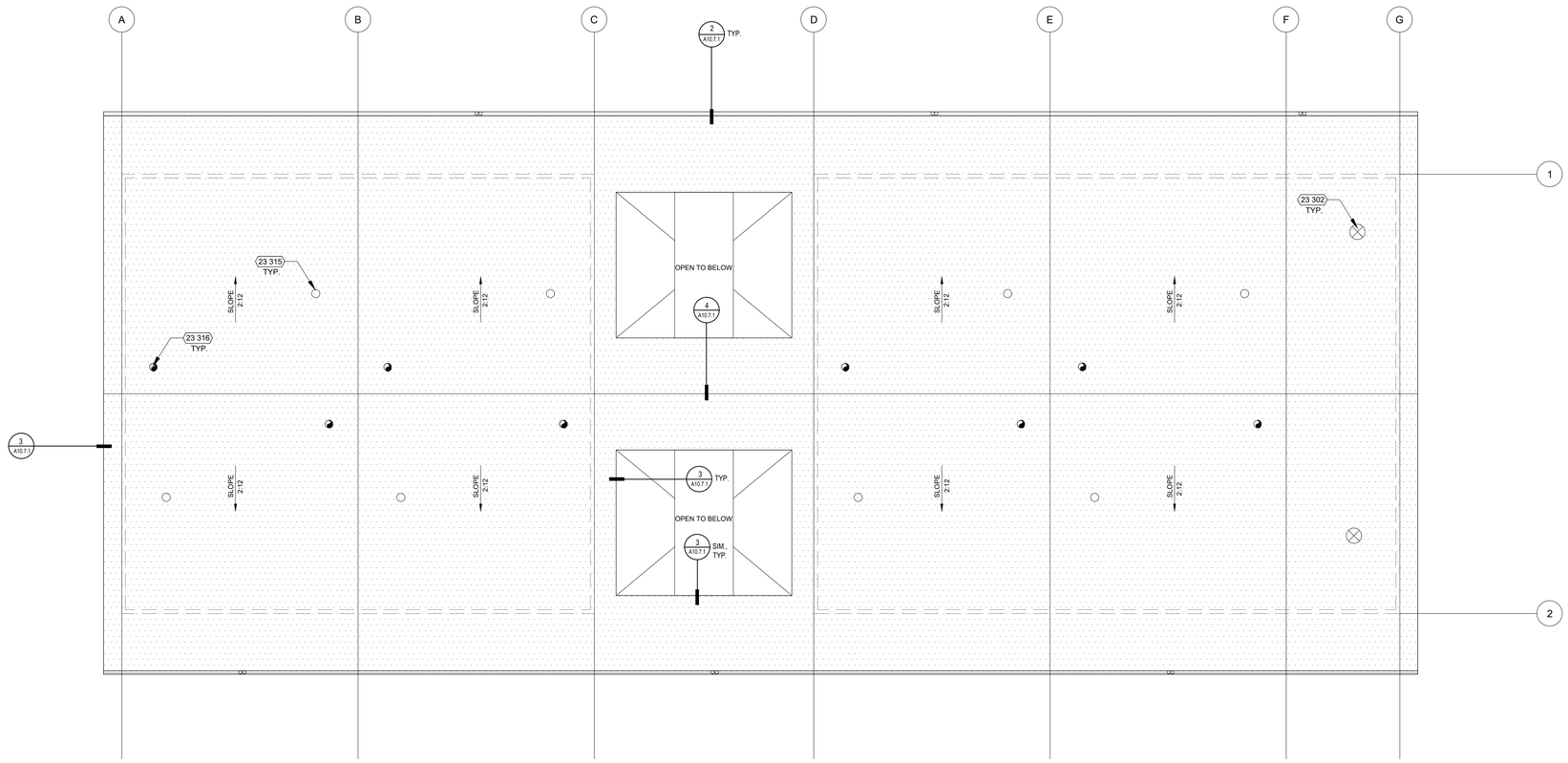
ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

DEMO & NEW ROOF PLAN - CLASSROOM - BUILDING B

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A4.2 |
| Drawn / Checked | |
| KT / CD | |




**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. |
| 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. |

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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.
6. NAILER THICKNESS SHALL MATCH ADJACENT INSULATION THICKNESS WITHIN 1/4" TOLERANCE.

SLOPES AND DRAINAGE
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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.
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5. PROVIDE TAPERED CRICKET ON THE HIGH SIDE OF PENETRATIONS WIDER THAN 24".
6. MINIMUM SLOPE 1/4"/FT TO DRAIN AT ALL LOCATIONS.

EQUIPMENT
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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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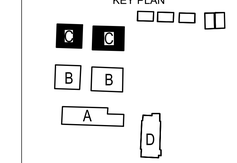
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN



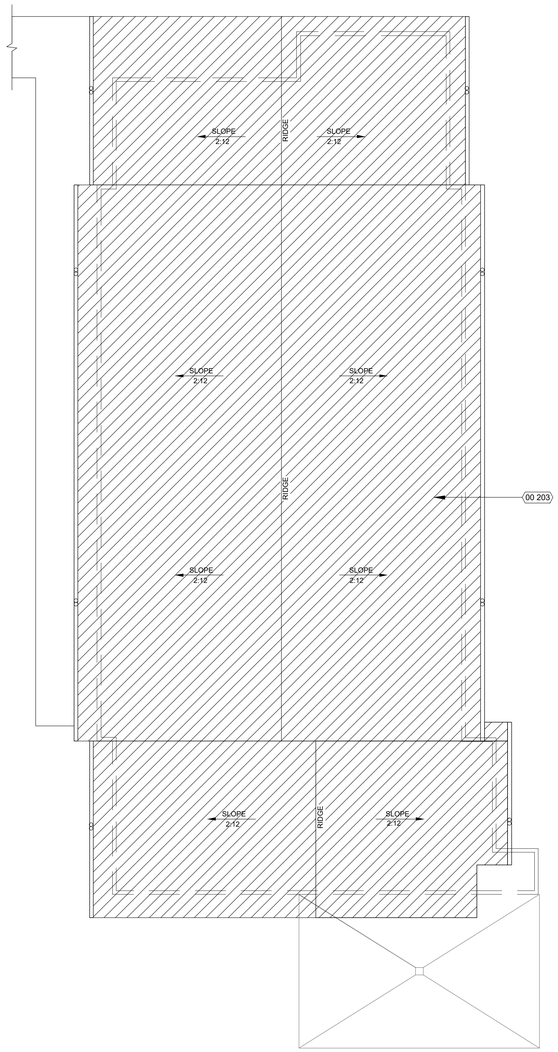

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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

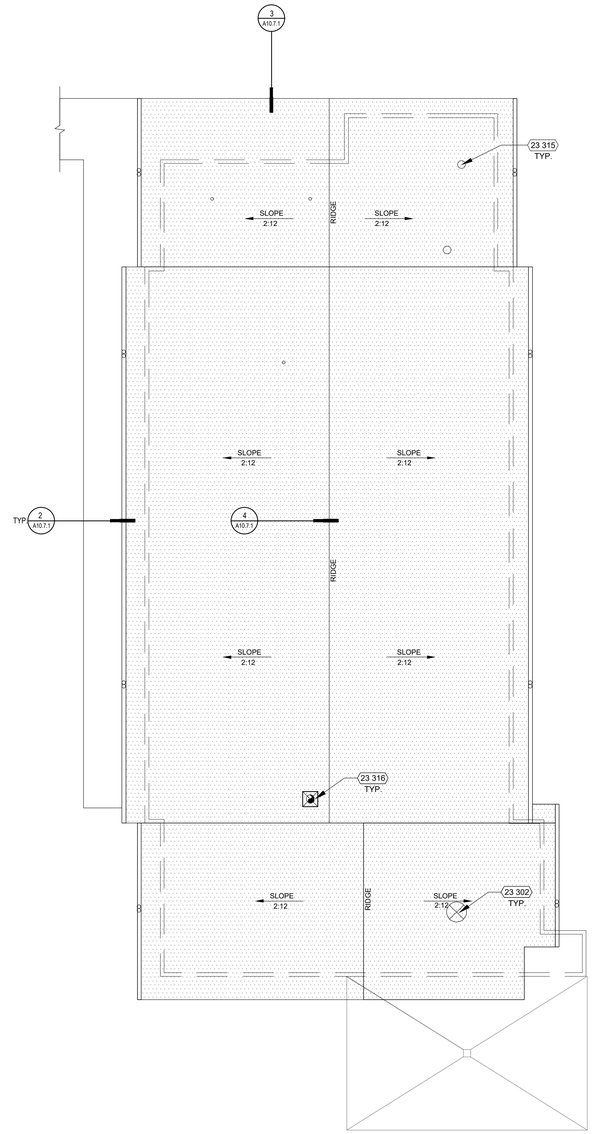
# DEMO & NEW ROOF PLAN - CLASSROOM - BUILDING C

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A4.3 |
| Drawn KT | Checked CD |




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

| 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

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

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

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

## LEGEND

(E) ROOFING TO BE REMOVED

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

(E) EXTERIOR WALLS BELOW

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

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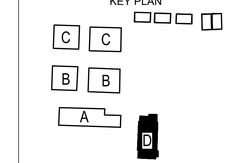
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

| | DATE |
|---|---|
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| ○ CONSTRUCTION | |

KEY PLAN



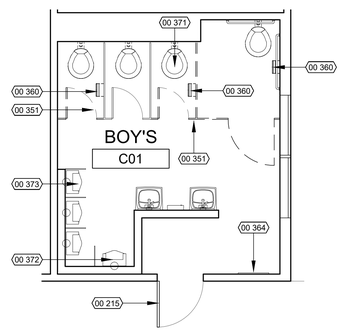

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

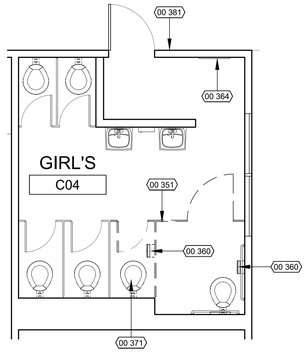
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# DEMO & NEW ROOF PLAN - MULTI-USE - BUILDING D

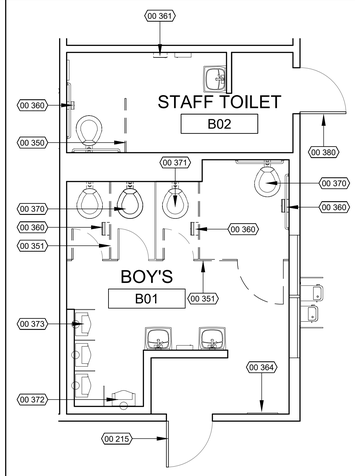
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|---|---|
| Date 04/24/2023 | Project Number 22025 |
| Application Number 01-120630 | Drawing Number A4.4 |
| Drawn KT | Checked CD |



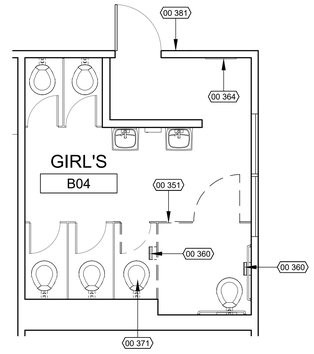

ENLARGED DEMO PLAN - BOY'S RESTROOM C01 | 1/4" = 1'-0" | 17



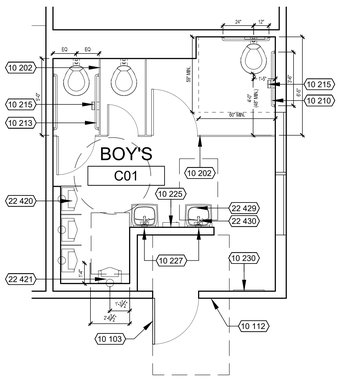

ENLARGED DEMO PLAN - GIRL'S RESTROOM C04 | 1/4" = 1'-0" | 12



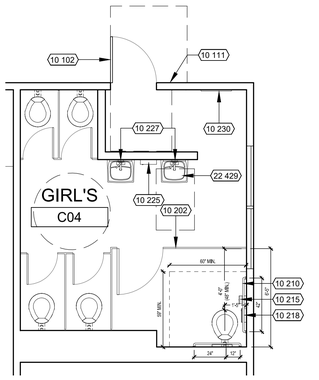

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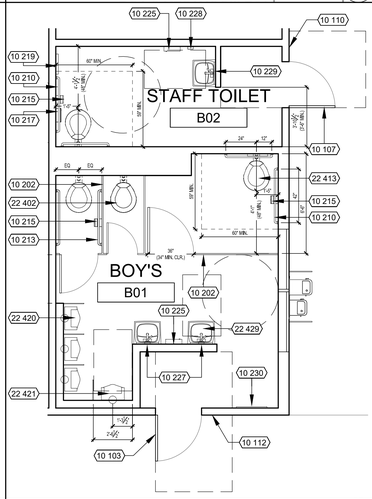

ENLARGED DEMO PLAN - GIRL'S RESTROOM B04 | 1/4" = 1'-0" | 2



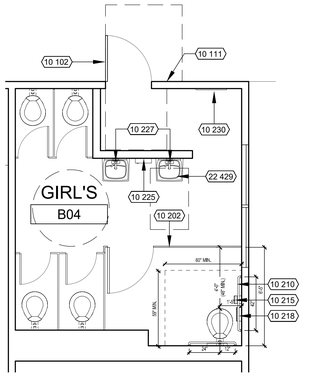

ENLARGED NEW PLAN - BOY'S RESTROOM C01 | 1/4" = 1'-0" | 18



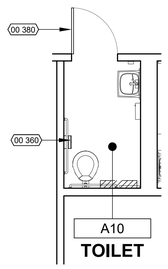

ENLARGED NEW PLAN - GIRL'S RESTROOM C04 | 1/4" = 1'-0" | 13



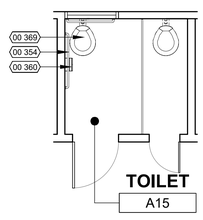

ENLARGED NEW PLAN - BOY'S RESTROOM B01 | 1/4" = 1'-0" | 8



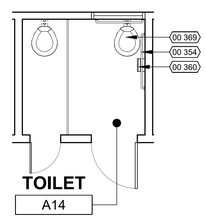

ENLARGED NEW PLAN - GIRL'S RESTROOM B04 | 1/4" = 1'-0" | 3



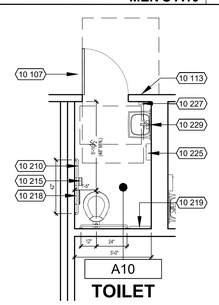

ENLARGED DEMO PLAN - MEN'S A10 | 1/4" = 1'-0" | 14



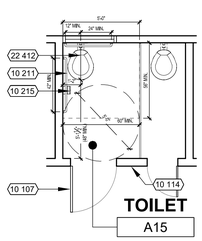

ENLARGED DEMO PLAN - KINDERGARTEN RESTROOM A15 | 1/4" = 1'-0" | 9



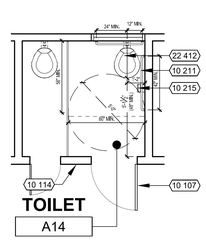

ENLARGED DEMO PLAN - KINDERGARTEN RESTROOM A14 | 1/4" = 1'-0" | 4




ENLARGED NEW PLAN - MEN'S A10 | 1/4" = 1'-0" | 15




ENLARGED NEW PLAN - KINDERGARTEN RESTROOM A15 | 1/4" = 1'-0" | 10




ENLARGED NEW PLAN - KINDERGARTEN RESTROOM A14 | 1/4" = 1'-0" | 5

## KEY NOTES

| NUMBER | NOTE |
|---|---|
| 00 215 | REMOVE (E) DOOR CLOSER AND RETURN TO DISTRICT. |
| 00 350 | REMOVE (E) PARTITION TO BE DEMOLISHED. |
| 00 351 | DEMOLISH (E) TOILET DOORS AND PARTITIONS FOR NEW WORK. |
| 00 354 | REMOVE (E) GRAB BARS, SALVAGE FOR RE-INSTALLATION. |
| 00 360 | REMOVE (E) JUMBO TOILET PAPER DISPENSER AND RETURN TO DISTRICT. |
| 00 361 | REMOVE (E) SANITARY NAPKIN DISPOSAL, SALVAGE FOR RE-INSTALLATION. |
| 00 364 | REMOVE (E) MIRROR, SALVAGE FOR RE-INSTALLATION. |
| 00 369 | REMOVE (E) TOILET AND SALVAGE FOR RE-INSTALLATION, REMOVE TOILET SEAT AND RETURN TO DISTRICT. |
| 00 370 | REMOVE (E) TOILET, SALVAGE FOR RE-INSTALLATION. |
| 00 371 | REMOVE (E) TOILET AND RETURN TO DISTRICT. |
| 00 372 | REMOVE (E) STANDARD URINAL, SALVAGE FOR RE-INSTALLATION. |
| 00 373 | REMOVE (E) ACCESSIBLE URINAL, SALVAGE FOR RE-INSTALLATION. |
| 00 380 | REMOVE (E) DOOR SIGNAGE AND RETURN TO DISTRICT. |
| 00 381 | REMOVE (E) WALL SIGNAGE AND RETURN TO DISTRICT. |
| 10 102 | (E) DOOR SIGNAGE COMPLIANT PER 12/A10.10.1. |
| 10 103 | (E) DOOR SIGNAGE COMPLIANT PER 13/A10.10.1. |
| 10 107 | (N) DOOR SIGNAGE COMPLIANT PER 11/A10.10.1. |
| 10 110 | (E) WALL SIGNAGE COMPLIANT PER 9/A10.10.1. |
| 10 111 | (N) WALL SIGNAGE COMPLIANT PER 14/A10.10.1. |
| 10 112 | (N) WALL SIGNAGE COMPLIANT PER 15/A10.10.1. |
| 10 113 | (N) WALL SIGNAGE COMPLIANT PER 9/A10.10.1. |
| 10 114 | (N) WALL SIGNAGE COMPLIANT PER 10/A10.10.1. |
| 10 202 | (N) TOILET PARTITIONS (SEE DETAIL 16/A10.10.2) |
| 10 210 | (E) GRAB BAR COMPLIANT PER SCHEDULE ON A10.10.2. |
| 10 211 | REINSTALL (E) GRAB BARS AT COMPLIANT HEIGHT FOR AGES 5-8 PER SCHEDULE ON A10.10.2. |
| 10 213 | (N) GRAB BARS FOR AMBULATORY STALL AT COMPLIANT HEIGHT AND LOCATION PER SCHEDULE ON A10.10.2. |
| 10 215 | (N) TOILET PAPER DISPENSER INSTALLED AT COMPLIANT HEIGHT AND LOCATION PER SCHEDULE A10.10.2. |
| 10 217 | RELOCATED (E) SANITARY NAPKIN DISPOSAL INSTALLED AT COMPLIANT HEIGHT AND LOCATION PER SCHEDULE A10.10.2. |
| 10 218 | (N) SANITARY NAPKIN DISPOSAL INSTALLED AT COMPLIANT HEIGHT AND LOCATION PER SCHEDULE A10.10.2. |
| 10 219 | (E) SEAT COVER DISPENSER COMPLIANT HEIGHT PER SCHEDULE ON A10.10.2. |
| 10 220 | (N) SEAT COVER DISPENSER INSTALLED AT COMPLIANT HEIGHT AND LOCATION PER SCHEDULE ON A10.10.2. |
| 10 225 | (E) PAPER TOWEL DISPENSER COMPLIANT PER SCHEDULE ON A10.10.2. |
| 10 227 | (E) SOAP DISPENSER COMPLIANT PER SCHEDULE ON A10.10.2. |
| 10 228 | (N) SOAP DISPENSER INSTALLED AT COMPLIANT HEIGHT AND LOCATION PER SCHEDULE ON A10.10.2. |
| 10 229 | (E) MIRROR COMPLIANT PER SCHEDULE ON A10.10.2. |
| 10 230 | REINSTALL (E) MIRROR AT COMPLIANT HEIGHT PER SCHEDULE ON A10.10.2. |
| 22 402 | REINSTALL (E) LAVATORY AT COMPLIANT LOCATION PER SCHEDULE ON A10.10.2. |
| 22 412 | REINSTALL (E) TOILET WITH (N) SEAT AT COMPLIANT LOCATION FOR AGES 5-8 PER SCHEDULE ON A10.10.2. |
| 22 413 | REINSTALL (E) TOILET AT COMPLIANT LOCATION FOR AGES 9-12 PER SCHEDULE ON A10.10.2. |
| 22 420 | REINSTALL (E) STANDARD URINAL AT NEW LOCATION PER PLAN AT COMPLIANT HEIGHT PER 3/A10.10.2 AND SCHEDULE ON A10.10.2. |
| 22 421 | REINSTALL (E) ACCESSIBLE URINAL AT NEW LOCATION PER PLAN AND AT COMPLIANT HEIGHT PER 3/A10.10.2 AND SCHEDULE ON A10.10.2. |
| 22 429 | INSULATE EXPOSED LAVATORY PIPES OR OTHERWISE PROTECT AGAINST CONTACT. |
| 22 430 | (E) LAVATORY COMPLIANT HEIGHT WITH KNEE CLEARANCE PER SCHEDULE ON A10.10.2. |

## GENERAL NOTES

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

ACCESSORIES
1. ALL RESTROOM FIXTURES AND ACCESSORIES MOUNTING HEIGHTS AND LOCATIONS TO USE DIMENSIONS PER A10.10.1
2. FOR TYPICAL RESTROOM ACCESSORY MOUNTING HEIGHTS, ACCESSIBLE DIMENSIONS, SEE SHEET A10.10.1.
3. TOILET ACCESSORIES LOCATED ON OR WITHIN WALLS SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE (CBC SECTION 1210.2.2)
4. PLUMBING FIXTURES TO HAVE SOLID BLOCKING AS REQUIRED BY CODE, SEE DETAIL 21/A10.10.1

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

## LEGEND

30" x 48" ACCESSIBLE CLEAR SPACE

60" DIAMETER ACCESSIBLE CLEAR SPACE

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

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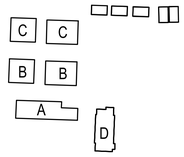
REVISION HISTORY

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DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

ENLARGED TOILET ROOM PLANS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A7.1 |
| 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 $\frac{1}{2}$" 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 BRIAN P WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 04/24/2023 | |

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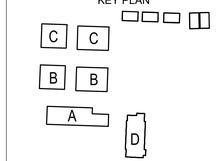
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

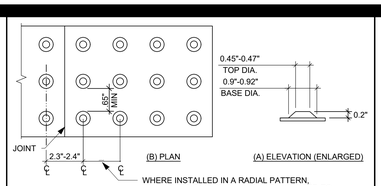
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

ROOM FINISH SCHEDULE

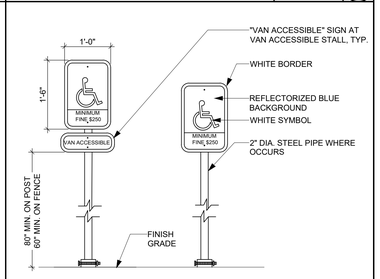
| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A9.1 |
| Drawn: KT | Checked: CD |




**DETECTABLE WARNINGS:**

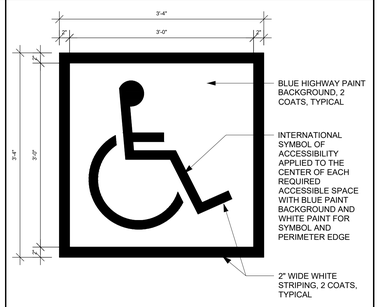
1. **HAZARDOUS VEHICULAR AREAS** DETECTABLE WARNINGS AT HAZARDOUS VEHICULAR AREAS SHALL BE 36 INCHES IN WIDTH.
2. **ONLY APPROVED DSA-AC DETECTABLE WARNING PRODUCTS** AND DIRECTIONAL SURFACES SHALL BE INSTALLED PER THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, CH 5, ARTICLES 2,3, & 4. REFER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

**TRUCTED DOMES** 1/4" = 1'-0" 6

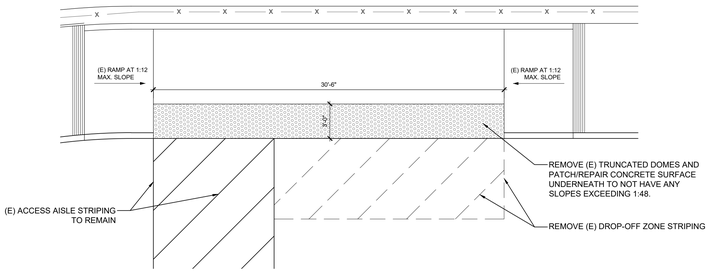



NOTE:
ACCESSIBLE SIGN TO BE LOCATED ON FACE OF COLUMN UNLESS NOTED OTHERWISE

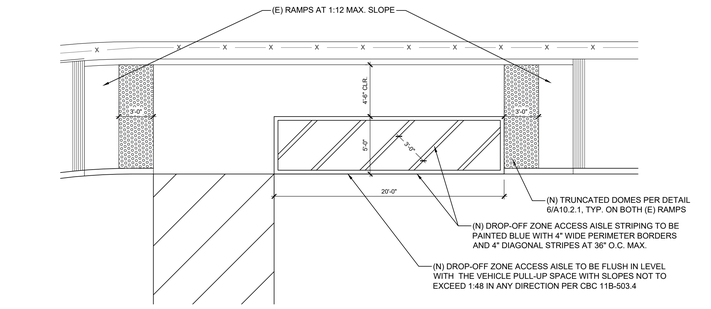
**(E) ACCESSIBLE STALL SIGNAGE** 3/4 = 1'-0" 7




**(E) ACCESSIBLE STALL SYMBOL** 1" = 1'-0" 8

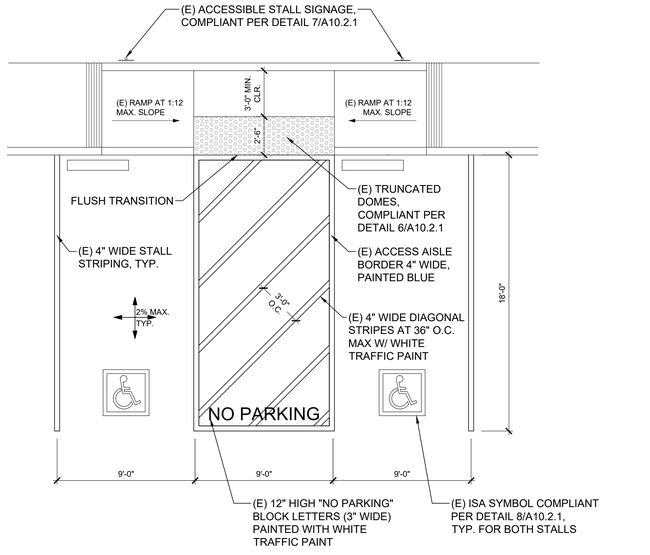



DEMO PLAN




NEW PLAN

**PASSENGER DROP-OFF ZONE - DEMO AND NEW PLAN** 3/16" = 1'-0" 3




**(E) ACCESSIBLE PARKING PLAN** 1/4" = 1'-0" 5

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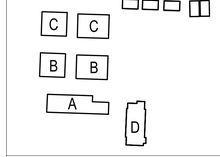
REVISION HISTORY

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| ○ CONSTRUCTION | |

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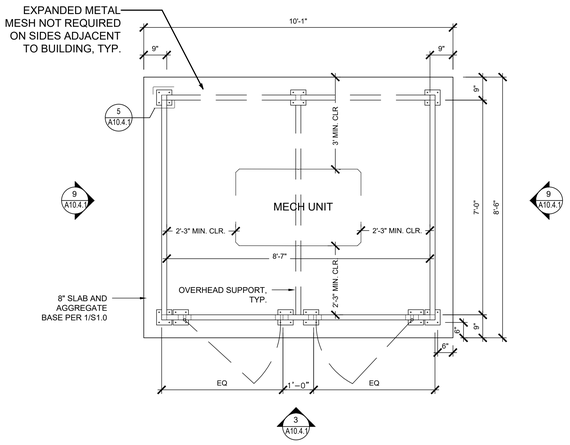
CONSTRUCTION DOCUMENTS

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

SITE DETAILS

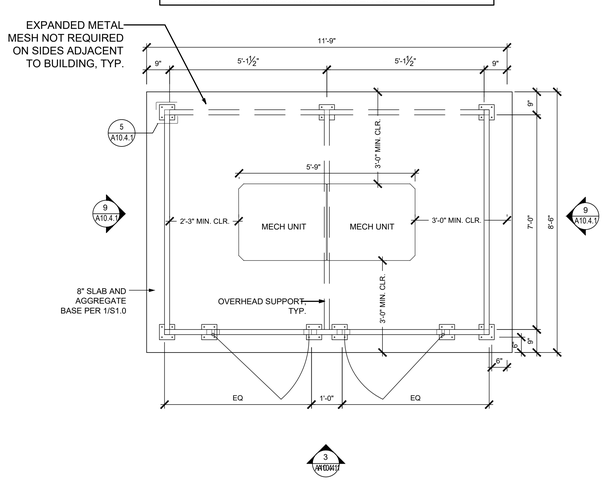
Date 04/24/2023
Project Number 22025
Application Number 01-120630
Drawing Number A10.2.1
Drawn KT
Checked CD

NOTE:
1. SEE DETAIL 13/M0.03 FOR MECH UNIT ANCHORAGE.
2. POST-INSTALLED ANCHORS ARE EXEMPT FROM STRUCTURAL TESTS/SPECIAL INSPECTION PER DSA 103 FORM.
3. WELDING OF MECHANICAL ENCLOSURE IS EXEMPT PER DSA 103 TESTING AND INSPECTION FORM.
4. SEE SPECIFICATION SECTION 05 5000 FOR ADDITIONAL INFORMATION ON ENCLOSURE.



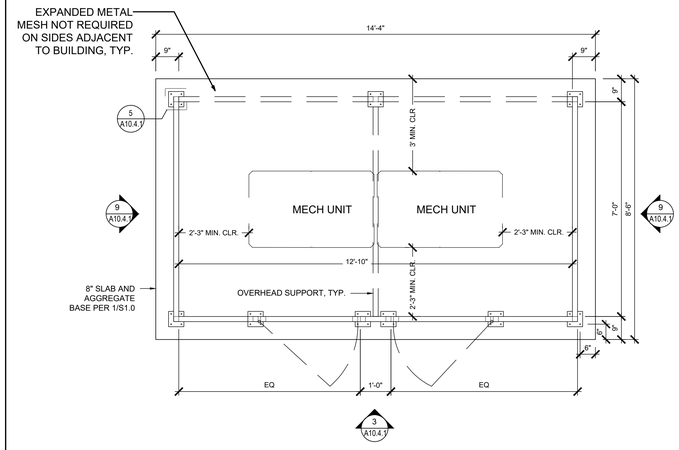

**MECHANICAL ENCLOSURE TYPE 3** | 1/2" = 1'-0" | 22

NOTE:
1. SEE DETAIL 13/M0.03 FOR MECH UNIT ANCHORAGE.
2. POST-INSTALLED ANCHORS ARE EXEMPT FROM STRUCTURAL TESTS/SPECIAL INSPECTION PER DSA 103 FORM.
3. WELDING OF MECHANICAL ENCLOSURE IS EXEMPT PER DSA 103 TESTING AND INSPECTION FORM.
4. SEE SPECIFICATION SECTION 05 5000 FOR ADDITIONAL INFORMATION ON ENCLOSURE.

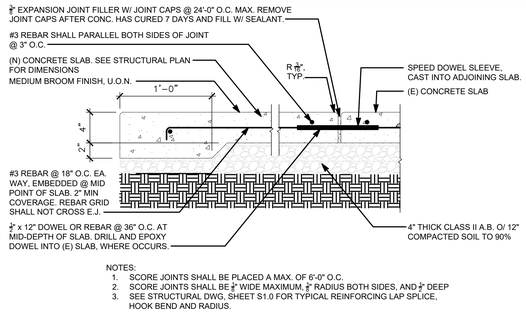



**MECHANICAL ENCLOSURE TYPE 2** | 1/2" = 1'-0" | 12

NOTE:
1. SEE DETAIL 13/M0.03 FOR MECH UNIT ANCHORAGE.
2. POST-INSTALLED ANCHORS ARE EXEMPT FROM STRUCTURAL TESTS/SPECIAL INSPECTION PER DSA 103 FORM.
3. WELDING OF MECHANICAL ENCLOSURE IS EXEMPT PER DSA 103 TESTING AND INSPECTION FORM.
4. SEE SPECIFICATION SECTION 05 5000 FOR ADDITIONAL INFORMATION ON ENCLOSURE.

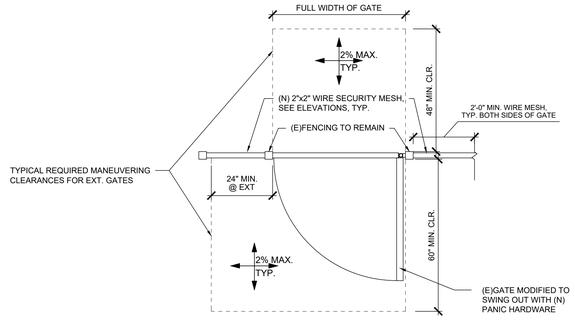



**MECHANICAL ENCLOSURE TYPE 1** | 1/2" = 1'-0" | 2



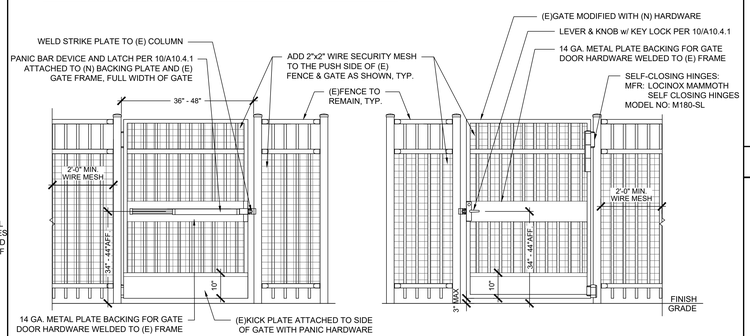

NOTES:
1. SCORE JOINTS SHALL BE PLACED A MAX. OF 6'-0" O.C.
2. SCORE JOINTS SHALL BE ¼" WIDE MAXIMUM, ¼" RADIUS BOTH SIDES, AND ½" DEEP
3. SEE STRUCTURAL DWG, SHEET S1.0 FOR TYPICAL REINFORCING LAP SPLICE, HOOK BEND AND RADIUS.

**(N) SIDEWALK PAVING** | 1 1/2" = 1'-0" | 23




PLAN VIEW

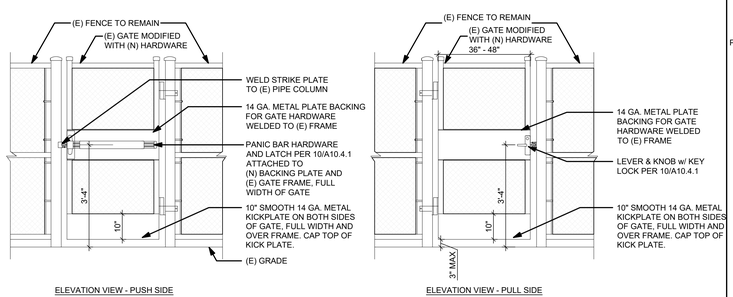
NOTES:
1. GRIND SMOOTH ALL WELDED JOINTS.
2. SEE DETAIL 10/A10.4.1 FOR ADDITIONAL INFORMATION ON GATE HARDWARE.




ELEVATION VIEW - PUSH SIDE

ELEVATION VIEW - PULL SIDE

**(E) GATE MODIFICATION - DETAIL** | 1/2" = 1'-0" | 15

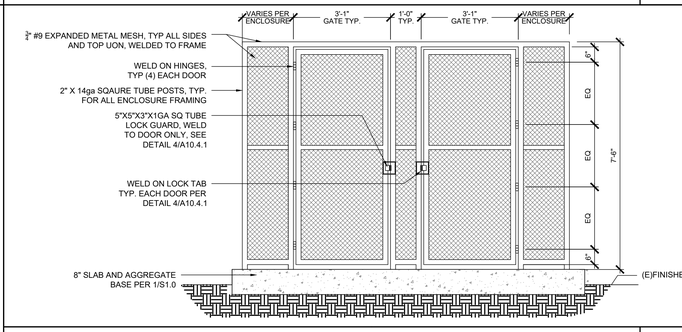



ELEVATION VIEW - PUSH SIDE

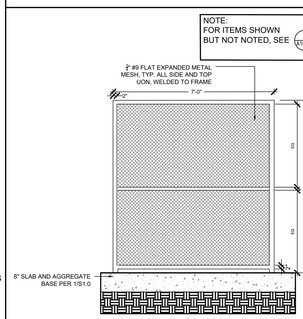
ELEVATION VIEW - PULL SIDE

NOTES:
1. GRIND SMOOTH ALL WELDED JOINTS
2. ANY CAVITIES CREATED BY ADDING HTE KICK PLATE SHALL BE CAPPED PER CBC 11B-404.2.10
3. SEE DETAIL 10/A10.4.1 FOR ADDITIONAL INFORMATION ON GATE HARDWARE.
4. SEE DETAIL 15/A10.4.1 FOR REQUIRED MANEUVERING CLEARANCES AT GATE.

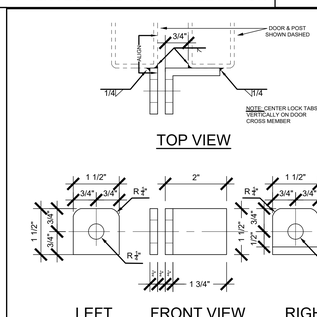
**(E) CHAIN LINK GATE MODIFICATION - DETAIL** | 1/2" = 1'-0" | 25




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




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

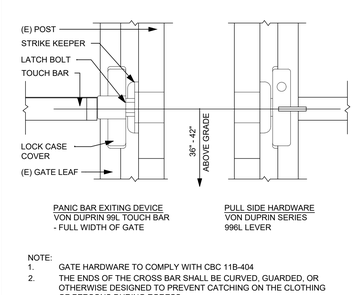



TOP VIEW




LEFT FRONT VIEW RIGHT

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

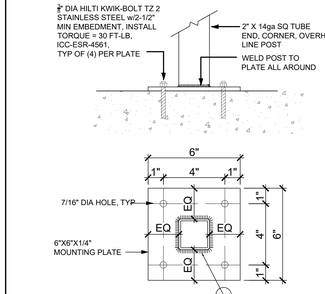



PANIC BAR EXITING DEVICE VON DUPRIN 99L TOUCH BAR - FULL WIDTH OF GATE

PULL SIDE HARDWARE VON DUPRIN SERIES 996L LEVER

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

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




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

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Sacramento, California 95811
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| ARCHITECT | ENGINEER |
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REVISION HISTORY

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

KEY PLAN



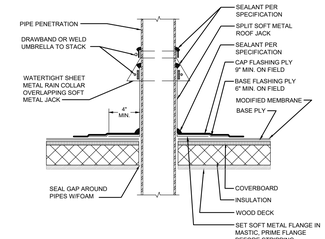

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SAN JOSE, CA 95127

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1970 CINDERELLA LN.,
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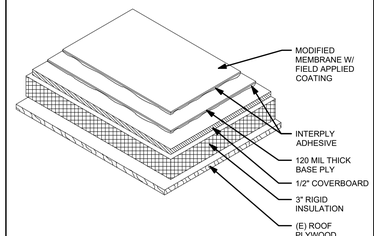
EXTERIOR DETAILS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A10.4.1 |
| Drawn / Checked | |
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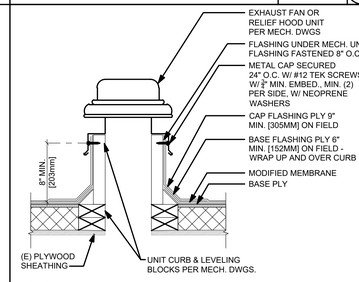

NOTES:
1. PREPARE AND CLEAN PIPE PRIOR TO APPLYING FLASHING.
2. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
3. SEE DETAIL 8/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE

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



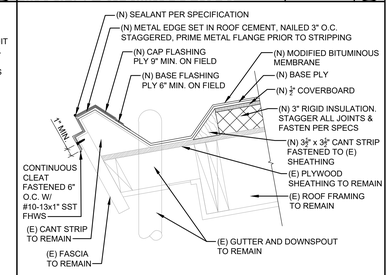

NOTES:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL 8/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE

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




NOTES:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL 8/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE

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




NOTES:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL 8/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE

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



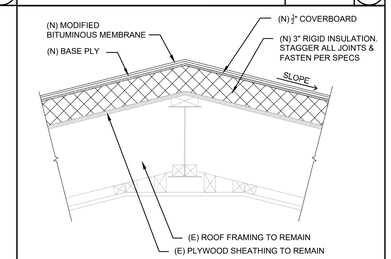

NOTES:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL 8/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE

**FASTENING PATTERN FOR 2-PLY MODIFIED BITUMINOUS ROOF** 1/2" = 1'-0" 8



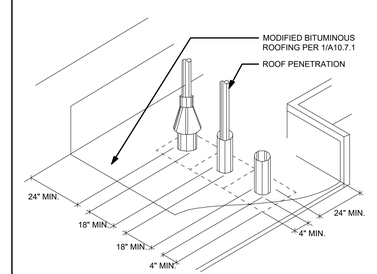

NOTES:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL 8/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE

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




NOTES:
1. REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE.
2. SEE DETAIL 8/A10.7.1 ROOFING ATTACHMENT TO SUBSTRATE

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




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

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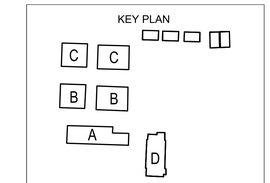
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN



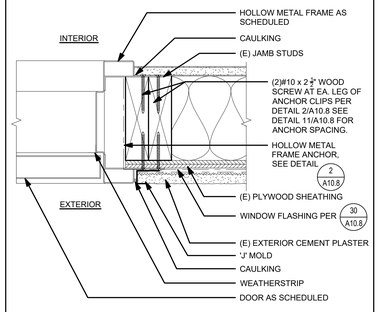

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

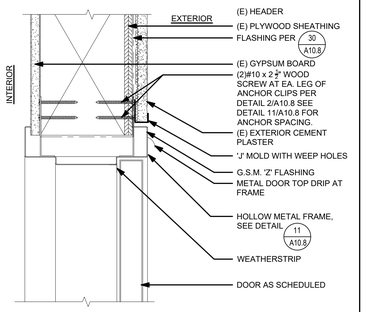
ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

ROOF DETAILS

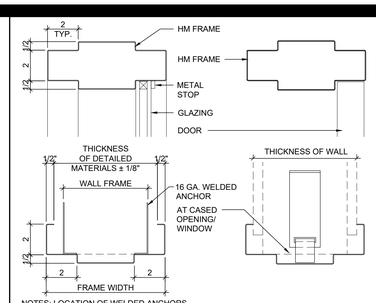
| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A10.7.1 |
| Drawn KT / Checked CD | |




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

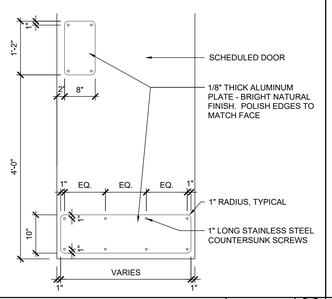



**HEAD AT EXTERIOR DOOR** 3" = 1'-0" 16

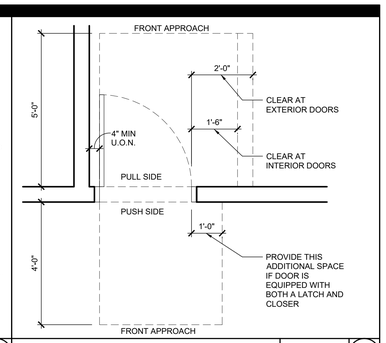



NOTES: LOCATION OF WELDED ANCHORS
1. JAMBS: 6" FROM TOP OF FRAME, 8" FROM BOTTOM OF FRAME, 24" MAX. O.C.
2. HEAD: 6" FROM EACH END OR FRAME, 24" MAX. O.C.

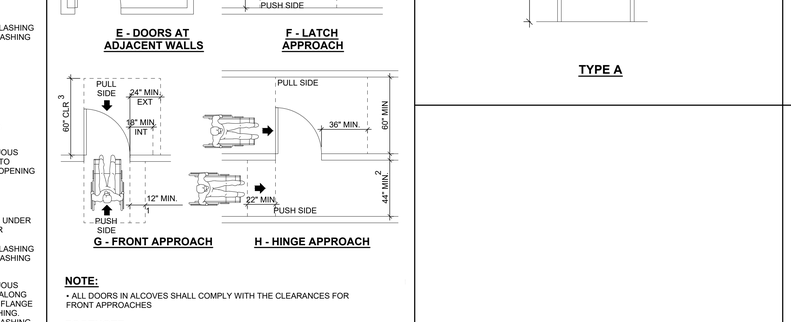
**TYPICAL HM FRAMES** 3" = 1'-0" 11



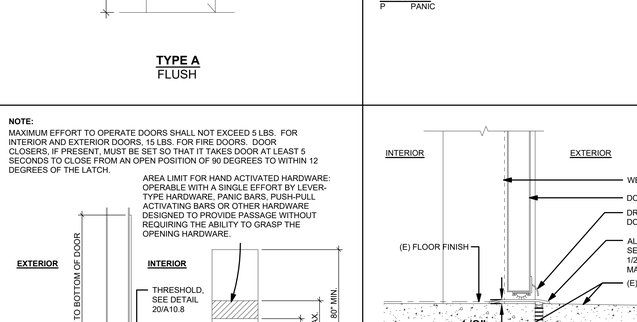

**ALUM. KICK & PUSH PLATES** 3/4" = 1'-0" 6




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




**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 11/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).

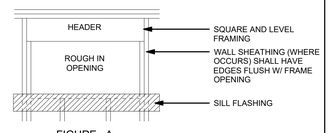



FIGURE A

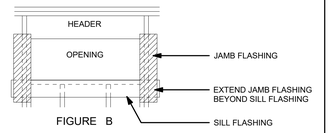



FIGURE B

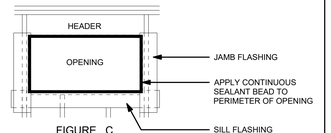



FIGURE C

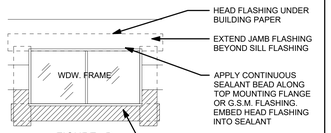



FIGURE D

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




**A - DOORS AT OPPOSITE WALLS**




**B - PULL SIDE (INTERIOR DOOR)**




**C - BOTH DOORS OPEN OUT**




**D - DOOR IN SERIES**




**E - DOORS AT ADJACENT WALLS**




**F - LATCH APPROACH**




**G - FRONT APPROACH**




**H - HINGE APPROACH**

**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

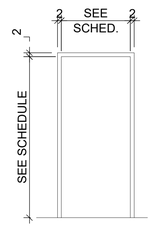
| MARK | DOOR SIZE PAIR | SIZE PANEL WIDTH | SIZE HT | SIZE THK | DOOR TYPE | DOOR MAT. | DOOR FINISH | DOOR CORE | DOOR GLASS | HDW RATING | HDW LOUVER HT | HDW LOUVER WD | HDW GROUP | HDW PANIC | HDW CLOSER | FRAME TYPE | FRAME MTL | FRAME FINISH | FRAME GLASS | FRAME DETAILS HEAD | FRAME DETAILS JAMB | FRAME DETAILS THRESHOLD | FRAME DETAILS OTHER | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D03A | - | 3'-0" | 7'-0" | 1 3/4" | A | HM | P-# | HM | - | 1 HOUR | - | - | 01 | P | Y | A | HM | P-# | - | 17/A10.8 | 17/A10.8 | 10/A10.8 (SIM) | | |
| D04A | - | 3'-0" | 7'-0" | 1 3/4" | A | HM | P-# | HM | - | - | - | - | 02 | - | Y | A | HM | P-# | - | 16/A10.8 | 21/A10.8 | 10/A10.8 | | |

DOOR HARDWARE GROUPS

HARDWARE GROUP 01
- EXIT DEVICE PANIC BAR — TELL EX9100 SERIES, OR APPROVED EQUAL
- EXIT DEVICE LEVER — TELL EX100303, OR APPROVED EQUAL
- DOOR CLOSER — TELL DC541 REGULAR, OR APPROVED EQUAL
- THRESHOLD — TELL SADDLE THRESHOLD, OR APPROVED EQUAL

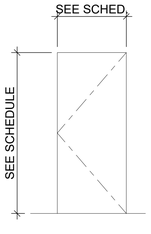
HARDWARE GROUP 02
- DOOR LEVER/LATCH — TELL ML138607, OR APPROVED EQUAL
- DOOR CLOSER — TELL DC541 REGULAR, OR APPROVED EQUAL
- THRESHOLD — TELL SADDLE THRESHOLD, OR APPROVED EQUAL

## DOOR FRAME TYPES



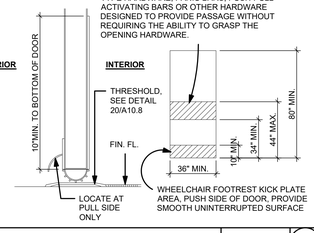

**TYPE A**

## 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

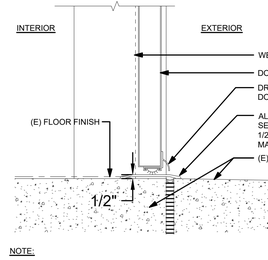
**CORE:**
GL GLASS
HM HOLLOW METAL
INSUL INSULATED
SC SOLID CORE
SCWD SOLID CORE WOOD

**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




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

**SILL AT EXTERIOR DOOR** 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 18 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

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Sacramento, California 95811
[ T ] 916.254.5600
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| ARCHITECT | ENGINEER |
|---|---|
| LICENSED ARCHITECT BRIAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA DATE SIGNED 04/24/2023 | |

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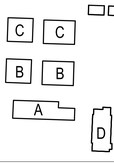
REVISION HISTORY

| NO. | REMARKS | DATE |
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DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

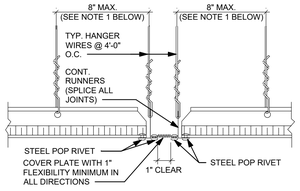
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

DOOR SCHEDULE AND DETAILS

| Date | Project Number |
|---|---|
| 04/24/2023 | 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

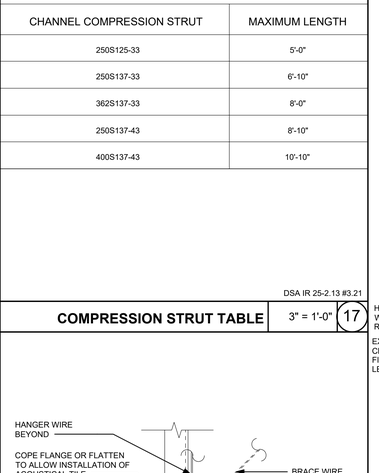
**COMPRESSION STRUT TABLE**

| 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" |

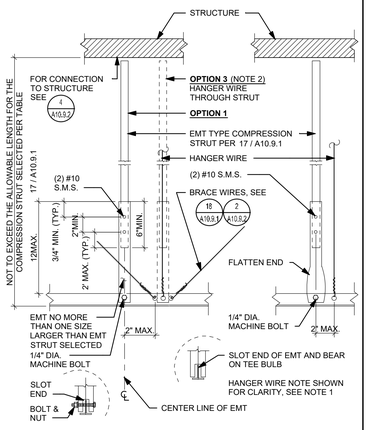
DSA IR 25-2.13 #3.21

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




DSA-IR 25 2.13 #3.10A

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




**OPTION 1 & 3**

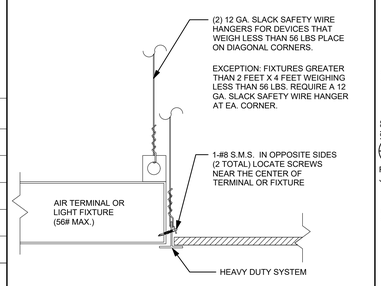
**OPTION 2**

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.

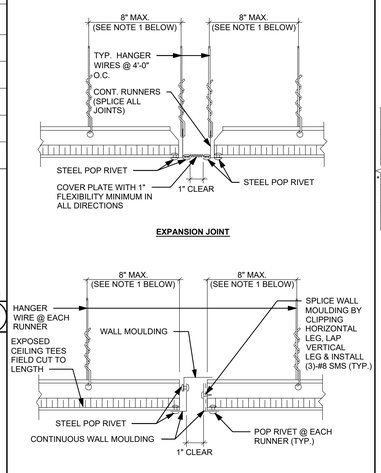
DSA IR 25-2.13 #3.20

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




DSA IR 25-2.13 #2.80

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




**EXPANSION JOINT**



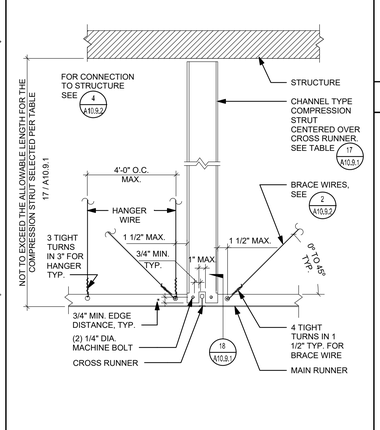

**EXPANSION JOINT ALTERNATE**

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.

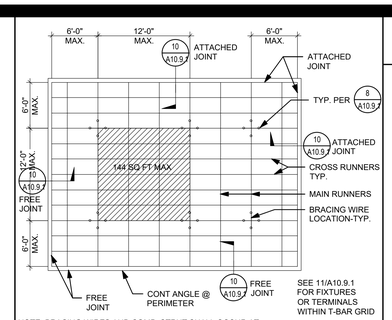
DSA IR 25-2.13 #2.40

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




DSA-IR 25 2.13 #3.10

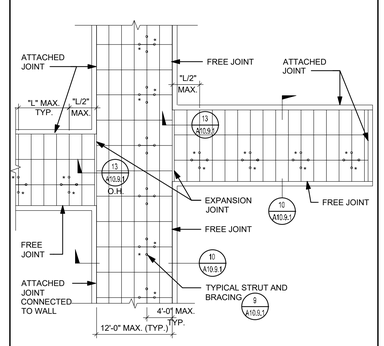
**CHANNEL TYPE STRUT** 1 1/2" = 1'-0" 15




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

DSA-IR 25 2.13 #2.12

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

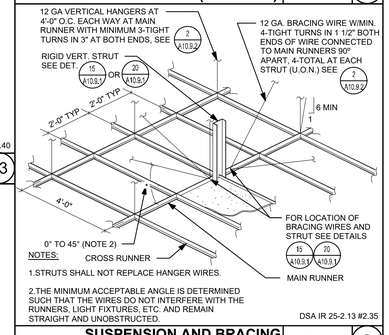



**LOCATION OF EXPANSION/SLIP JOINTS IN CORRIDORS**

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

DSA IR 25-2.13 #2.30

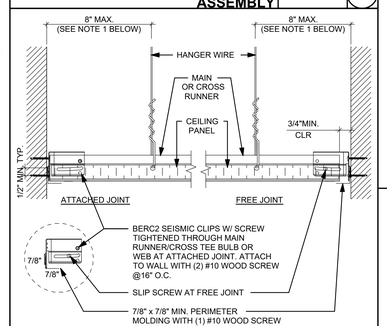
**CORRIDOR CEILING PLAN (SCHOOLS)** 3" = 1'-0" 7




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

DSA IR 25-2.13 #2.35

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




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

DSA-IR 25 2.13 #2.60

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

# ACOUSTICAL CEILING NOTES

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

1. CEILING SYSTEM GENERAL NOTES:

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

2. MATERIALS:

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

3. ATTACHMENT OF HANGER AND BRACING WIRES:

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

4. FASTENERS AND WELDING:

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

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

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

6. LUMINAIRES:

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

7. SERVICES WITHIN THE CEILING:

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

8. OTHER DEVICES WITHIN THE CEILING:

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

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STUDIO W ARCHITECTS

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

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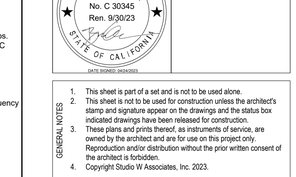
REVISION HISTORY

| NO. | REMARKS | DATE |
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DRAWING STATUS

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

KEY PLAN



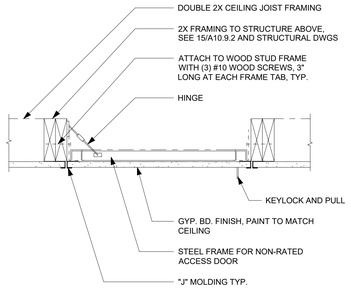

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

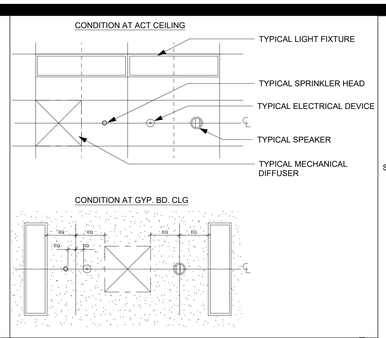
ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TYPICAL SUSPENDED ACOUSTIC CEILING DETAILS

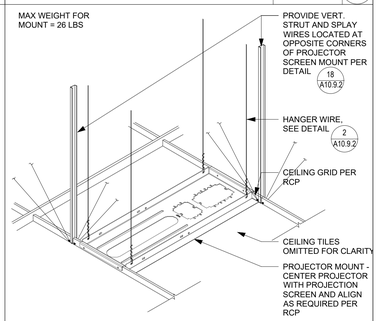
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| 04/24/2023 | 22025 |
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| 01-120630 | A10.9.1 |
| Drawn / Checked | |
| KT / CD | |



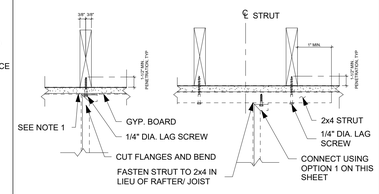

## CEILING ACCESS PANEL 3" = 1'-0" 21




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




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

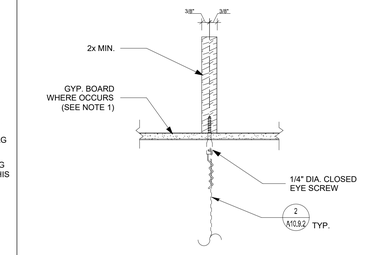



NOTES:

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

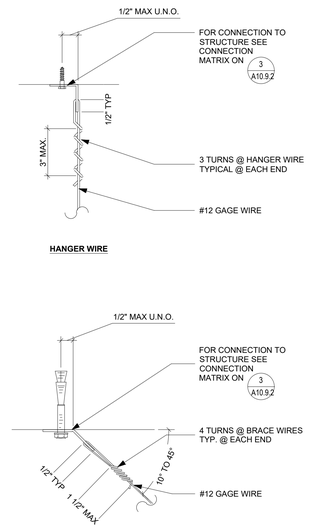
## STRUT CONNECTION TO SAWN TIMBER WITH GYPSUM BOARD 1-1/2" = 1'-0" 12




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

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




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




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




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 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<br>12 / A10.9.2 |
| SAWN TIMBER WITHOUT GYPSUM BOARD | 5.60<br>14 / A10.9.2 |

DSA IR 25-2.13 #5.10

## COMPRESSION STRUT CONNECTION TO STRUCTURE NTS 4

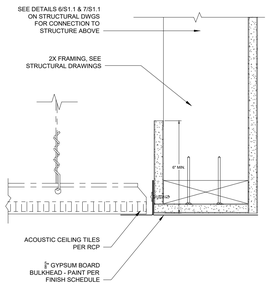



NOTES:

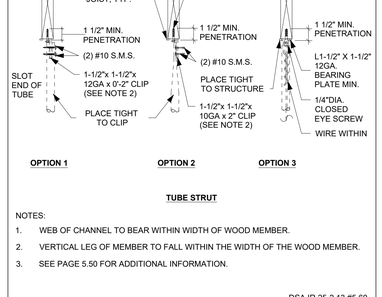
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTION.

DSA IR 25-2.13 #6.10

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




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

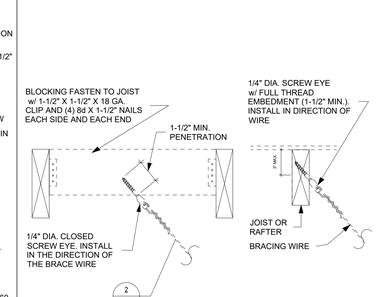



NOTES:

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




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




## CEILING JOIST SCHEDULE NTS 20




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




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

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

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REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

| | DATE |
|---|---|
| DSA PLAN CHECK | 12/23/2022 |
| DSA BACK CHECK | 04/24/2023 |
| BIDDING | |
| CONSTRUCTION | |

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

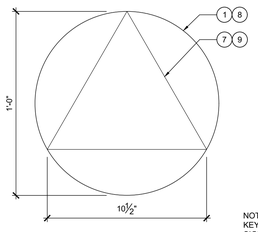
CEILING DETAILS

| | |
|---|---|
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| Application Number<br>01-120630 | Drawing Number<br>A10.9.2 |
| Drawn<br>KT | Checked<br>CD |



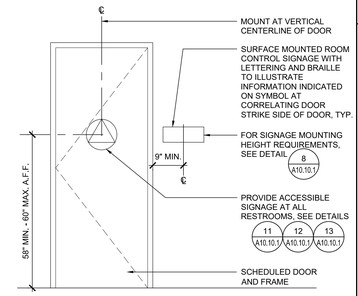

BUILDING ADDRESS MUST BE VISIBLE FROM THE MAIN ROAD (I.E., THE DIRECTION OF AN APPROACHING FIRST RESPONDER VEHICLE). THE NUMBERS MUST BE A MINIMUM OF 4" TALL WITH EACH STROKE A MINIMUM OF ½" WIDE. NUMBERS ARE REQUIRED TO BE ON A BACKGROUND OF A CONTRASTING COLOR. (CBC SECTION 502.1)

(E) ADDRESS SIGNAGE 3" = 1'-0" 16

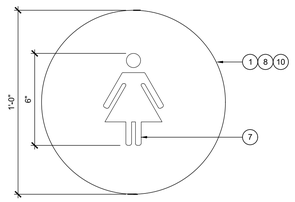



NOTE: FOR SIGNAGE KEYNOTE LEGEND AND SIGNAGE GENERAL NOTES, SEE DETAIL 2 / A10.10.1

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

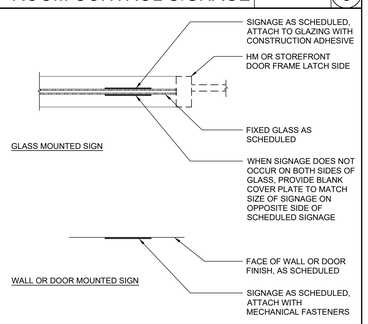



ROOM CONTROL SIGNAGE 1/2" = 1'-0" 6

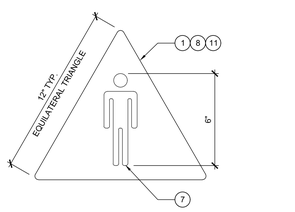



NOTE: FOR SIGNAGE KEYNOTE LEGEND AND SIGNAGE GENERAL NOTES, SEE DETAIL 2 / A10.10.1

GIRLS DOOR SIGNAGE 3" = 1'-0" 12

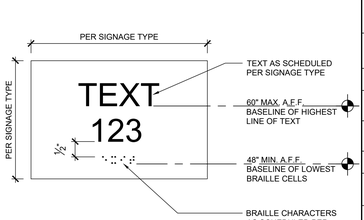



SIGNAGE MOUNTING TYPES 1" = 1'-0" 7

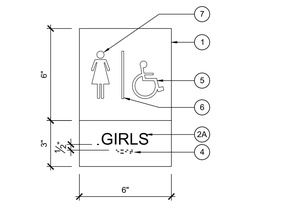



NOTE: FOR SIGNAGE KEYNOTE LEGEND AND SIGNAGE GENERAL NOTES, SEE DETAIL 2 / A10.10.1

BOYS DOOR SIGNAGE 3" = 1'-0" 13

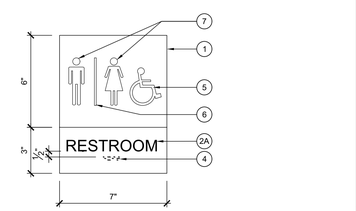



SIGNAGE MOUNTING HEIGHTS 6" = 1'-0" 8



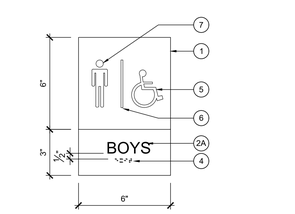

NOTE: FOR SIGNAGE KEYNOTE LEGEND AND SIGNAGE GENERAL NOTES, SEE DETAIL 2 / A10.10.1

GIRLS WALL MOUNTED SIGNAGE 3" = 1'-0" 14



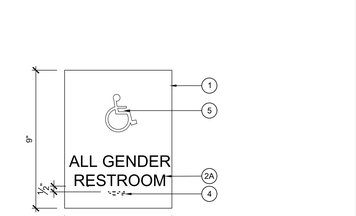

NOTE: FOR SIGNAGE KEYNOTE LEGEND AND SIGNAGE GENERAL NOTES, SEE DETAIL 2 / A10.10.1

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




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

BOYS WALL MOUNTED SIGNAGE 3" = 1'-0" 15




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

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

# TYPICAL SIGNAGE NOTES

**SIGNAGE GENERAL NOTES**

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

**SIGNAGE KEYNOTES**

1. EXTRUDED CLEAR ACRYLIC SIGN WITH A NON GLARE BACKGROUND OF 70% CONTRASTING COLOR TO TEXT AND ONE PIECE CONSTRUCTION PER SPECIFICATIONS
   BACKGROUND COLOR: MP2160 SAILBOAT BLUE
   THICKNESS: 1/4"
2A. 1/32" RAISED TEXT, CENTER JUSTIFIED ON PLAQUE
   TEXT STYLE: HELVETICA, ALL CAPS
   TEXT HEIGHT: 3/4" U.O.N.
   TEXT COLOR: 951 WHITE
2B. NOT USED
3. NOT USED
4. CALIFORNIA ROUNDED TOP CONTRACTED GRADE 2 BRAILLE BELOW RAISED TEXT (11B-703.3.2). DISTANCE FROM BOTTOM OF RAISED LETTERS TO TOP OF BRAILLE CHARACTERS SHALL BE 3/8" MINIMUM AND 1/2" MAXIMUM. BRAILLE TO BE CENTER JUSTIFIED OR LEFT JUSTIFIED TO MATCH RAISED TEXT. FOR MORE INFORMATION ON BRAILLE REQUIREMENTS, SEE DETAIL 5 / A10.10.1
5. INTERNATIONAL SYMBOL OF ACCESSIBILITY PICTOGRAM
   COLOR: 951 WHITE
6. 1/8" WIDE RAISED DECORATIVE STRIPE
   COLOR TO MATCH TEXT
7. RAISED IMAGE
   COLOR: 951 WHITE
8. CONTRAST 70% WITH DOOR COLOR
9. THE CIRCLE SYMBOL SHALL BE 1/4" THICK; TRIANGLE SYMBOL SHALL BE 1/4" THICK SUPERIMPOSED ON THE CIRCLE. THE TRIANGLE VERTICES SHALL BE MAX 1/4" FROM THE EDGE OF THE CIRCLE. THE CIRCLE COLOR SHALL CONTRAST WITH THE DOOR, THE TRIANGLE SHALL CONTRAST WITH THE CIRCLE. THE EDGES SHALL BE EASED OR ROUNDED AT 1/16" MIN; OR CHAMFERED AT 1/8" MAX. VERTICES SHALL BE RADIUSED BETWEEN 1/8" MIN. - 1/4" MAX. (11B-703.7.2.6.3, 11B703.7.2.6.4)
   NO PICTOGRAM PERMITTED.
10. EDGES SHALL BE EASED OR ROUNDED 1/16" MIN. OR CHAMFERED 1/8" MAX. (11B.703.7.2.6.4.)
11. EDGES SHALL BE EASED OR ROUNDED 1/16" MIN. OR CHAMFERED 1/8" MAX. VERTICES SHALL BE RADIUSED BETWEEN 1/8" MIN. - 1/4" MAX. (11B-703.7.2.6.4)

TABLE 11B-703.3.1
BRAILLE DIMENSIONS

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

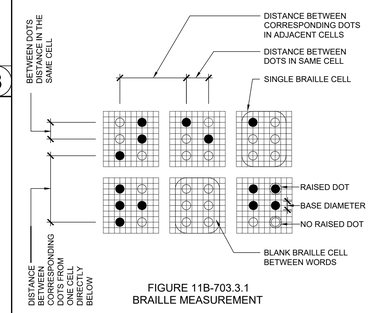
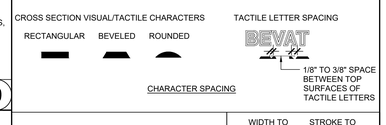


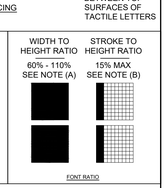

FIGURE 11B-703.3.1
BRAILLE MEASUREMENT




NOTE:

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

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







MINIMUM 70% CONTRAST DIFFERENCE BETWEEN CHARACTERS/GRAPHICS AND BACKGROUND

CONTRAST

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

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

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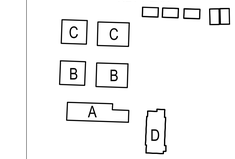
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

| | DATE |
|---|---|
| DSA PLAN CHECK | 12/23/2022 |
| DSA BACK CHECK | 04/24/2023 |
| BIDDING | |
| CONSTRUCTION | |

KEY PLAN



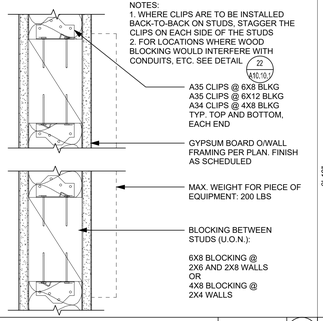

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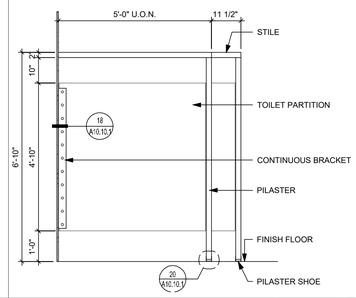
ADELANTE ACADEMY II
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SIGNAGE DETAILS

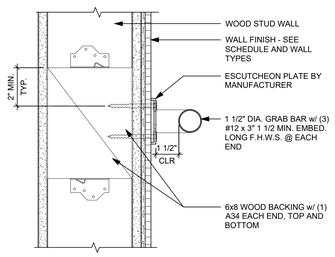
| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | A10.10.1 |
| Drawn KT / Checked CD | |



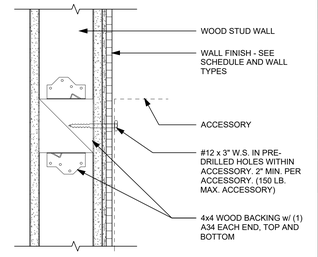

**TYPICAL WALL BLOCKING** 3" = 1'-0" 21




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



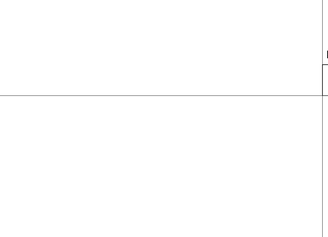

**GRAB BAR ANCHORAGE** 3" = 1'-0" 11



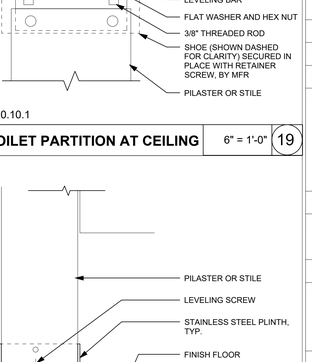

**TYPICAL ACCESSORY MOUNTING** 3" = 1'-0" 6

## KEY NOTES

| NUMBER | NOTE |
|---|---|
| 10 201 | TOILET PARTITION (SEE DETAIL 16/A10.10.1) |
| 10 202 | URINAL SCREEN (SEE DETAIL 17/A10.10.1) |
| 10 203 | GRAB BAR (SEE DETAIL 11/A10.10.1) |
| 10 210 | SANITARY NAPKIN DISPENSER, SEMI-RECESSED |
| 10 211 | TOILET SEAT COVER DISPENSER, SURFACE MOUNTED |
| 10 212 | TOILET PAPER DISPENSER, SURFACE MOUNTED |
| 10 215 | SANITARY NAPKIN DISPOSAL, SURFACE MOUNTED |
| 10 220 | MIRROR AS SCHEDULE |
| 10 221 | PROVIDE BACKING FOR 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 |

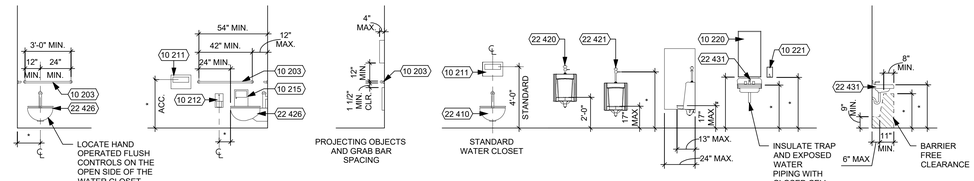


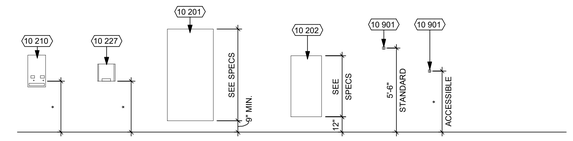

**FLAT STRAP BACKING** 3" = 1'-0" 22




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

## TYPICAL FIXTURE AND ACCESSORY DIMENSIONS



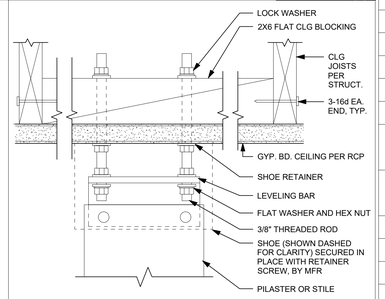




NOTES:
1. ALL DIMENSIONS MARKED * REFERENCE TOILET FIXTURES AND ACCESSORIES SCHEDULE BELOW.
2. FOR TYPICAL ACCESSORY MOUNTING SEE DETAIL 6 / A10.10.2
3. REFER TO KEYNOTE LIST FOR ADDITIONAL DETAILS.




REF: 16 / A10.10.1

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




REF: 17 / A10.10.1

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




REF: 16 / A10.10.1

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

## TOILET FIXTURES AND ACCESSORIES SCHEDULE

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

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

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: 04/24/2023 | |

GENERAL NOTES
1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
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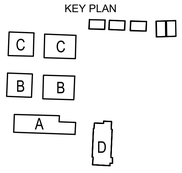
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

SPECIALTIES

Date 04/24/2023
Project Number 22025
Application Number 01-120630
Drawing Number A10.10.2
Drawn KT
Checked CD

## General Notes

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

## Design Criteria

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

## Foundations

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

## Concrete

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

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

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

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

## Reinforcing Steel

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

Lap Splice Length Schedule

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

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

## Wood

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

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

2. Glued Laminated Beams shall be manufactured and identified as required in ANSI/AITC A 190.1 and ASTM D 3737. Glued laminated beams shall be combination 24F-1.4 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 glu-laminated beam shall be fabricated with exterior glue and shall be assumed to be for exterior use. Each glued-laminated beam shall be sealed and wrapped per AITC 111.
3. Preservative-treated wood shall conform to the requirements of the applicable AWPA Standard U1 and M4 for the species, product, preservative, and end use. Preservative treated wood shall bear aquality mark stamp or label per CBC 2303.1.9.1.
4. Wood Structural Panel Sheathing shall conform to DOC PS 1 or PS 2.
5. All wood in direct contact with concrete or masonry shall be preservative-treated.
6. Bearing and shear walls shall have double top plates, lapped at wall and partition intersection with 3-16d nails. Splice double top plates as noted or detailed on the drawings.
7. Provide solid blocking between joists and rafters at all supports.
8. Provide blocking at all ceiling levels.
9. Holes for bolts in wood shall be bored with a bit equal in size to the diameter of the bolt plus ⅛ inch.
10. Holes for lag screws shall be bored as follows:
    a) The clearance hole for the shank shall have the same diameter as the shank, and the same depth of penetration as the length of unthreaded shank.
    b) The lead hole for the threaded portion shall have a diameter equal to 60% to 75% of the shank diameter and a length equal to at least the length of the threaded portion.
    c) Lag screws and wood screws shall be screwed and not driven into place. Soap may be used to lubricate the screws.
11. All bolts and lag screws shall be provided with metal washers under heads and nuts which bear on wood. Applies also to inserted expanding fasteners, Red Head, etc.
12. Lay all structural sheathing panels on roofs and floors with face grain perpendicular to supports unless noted otherwise.
13. Use plyclips at midspan of all unsupported roof sheathing edges.
14. Connector hardware model number are those for Simpson Strong-Tie Company. Equivalent connectors with ICC Evaluation Report may be substituted. All joist hangers shall be Simpson U series unless noted otherwise.
15. Nails shall have the following minimum dimensions (measured before application of any protective coatings):

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

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

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

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

## Simpson SET-3G Adhesive Anchors in Concrete

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

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

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

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

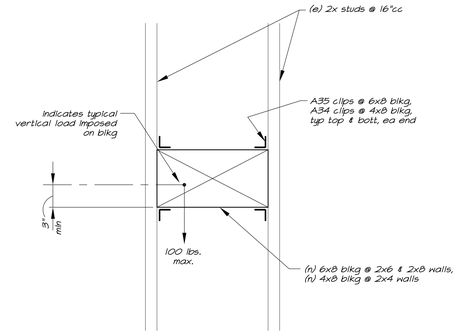
Notes:
1. *Tabulated loads are allowable stress design loads.
2. Tabulated loads listed in this table are not for use when both shear and tension forces are present.
3. The minimum concrete thickness is equal to 2.25 x embedment depth.
4. Tabulated loads are based on A307, Grade C material.
5. Tabulated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

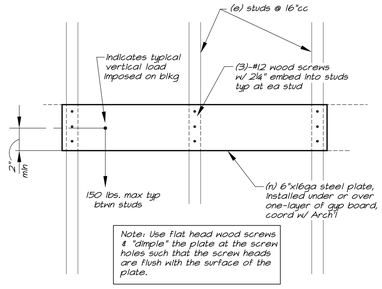
## Simpson Strong-Bolt 2 Expansion Anchor Notes

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

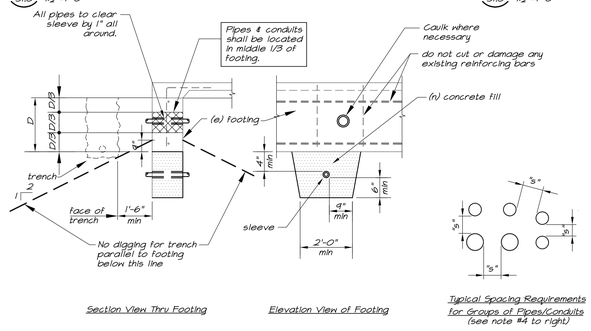
## Inspection and Testing Of Post-Installed Anchors

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




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




Section View Thru Footing — Elevation View of Footing

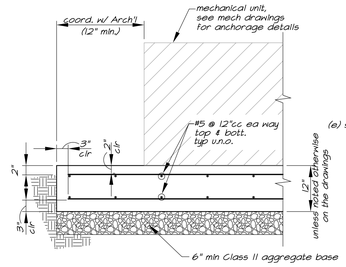
### 5 Typical Plate for Wall-Mounted Equipment
S1.0 1½"=1'-0"



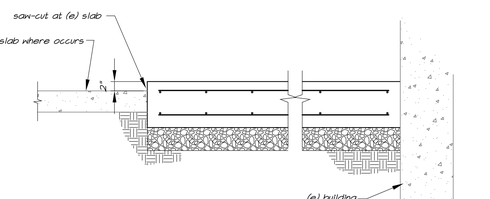

Typical Spacing Requirements for Groups of Pipes/Conduits (see note #4 to right)

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

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




Typical Condition




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

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

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

### 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; $12d_b$ |
| | #4 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" |
| | #4 thru #11 | $8d_b$ | |
| | #14 thru #18 | $10d_b$ | |

### Standard Hooks & Bends for Stirrups, Ties, and Hoops

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

### 2 Rebar Hooks & Bends
S1.0 ⅜"=1'-0"


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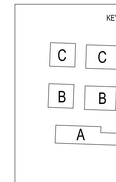
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
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DRAWING STATUS

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

KEY PLAN



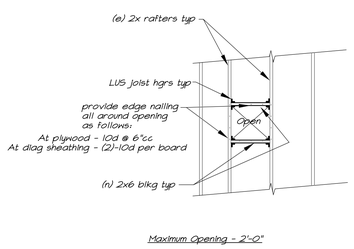

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

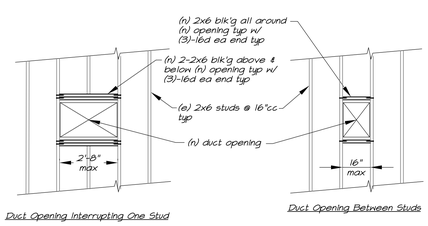
ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TYPICAL NOTES & DETAILS

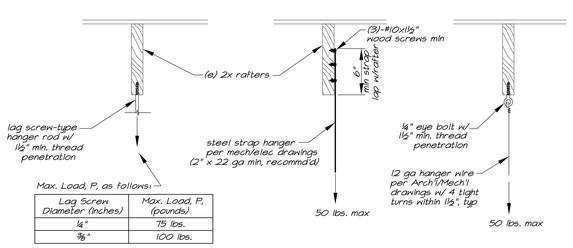
| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | S1.0 |
| Drawn GSL | Checked JMM |




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



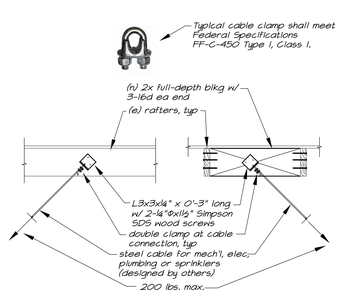

6 S1.1 New Duct Opening In Existing Non-Bearing Non-Shear Wall 3/8"=1'-0"




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

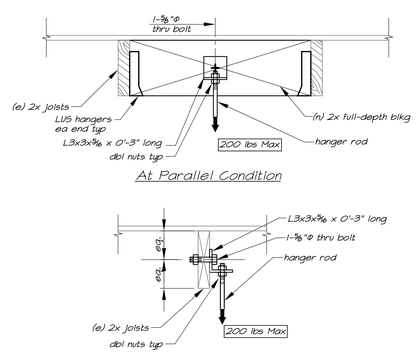
Notes:
1. No more than two of these hanging loads shall be installed on any one joist.
2. These hanging loads shall be spaced a minimum of 6'-0" apart.

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

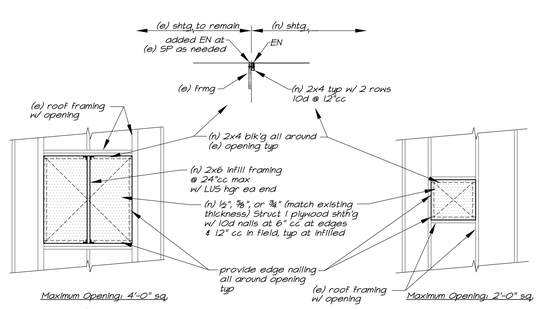



Note: Detail is similar for 12 gauge bracing wires. Provide 4 tight turns within 1½" at each end of wires, typical.

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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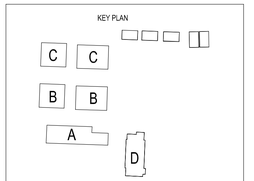
REVISION HISTORY

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| ○ CONSTRUCTION | |

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

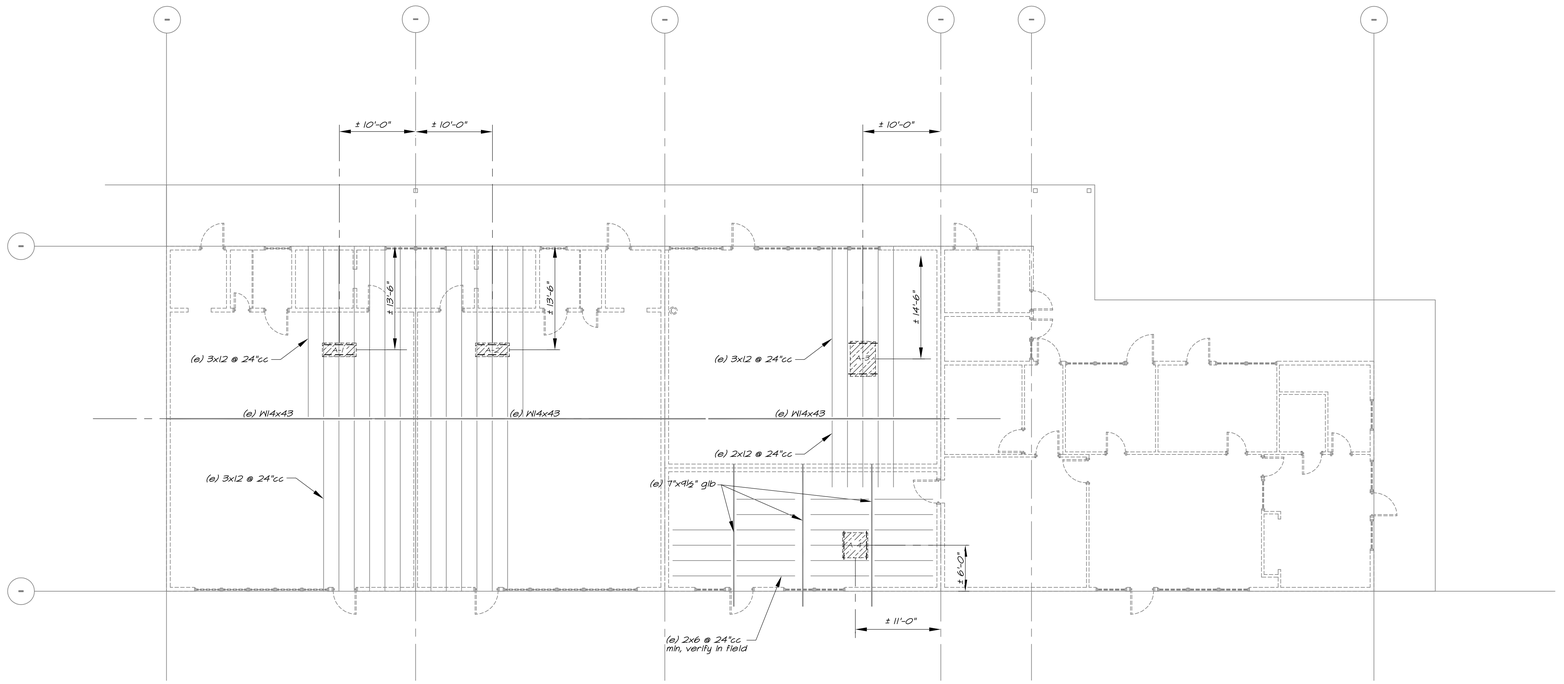
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

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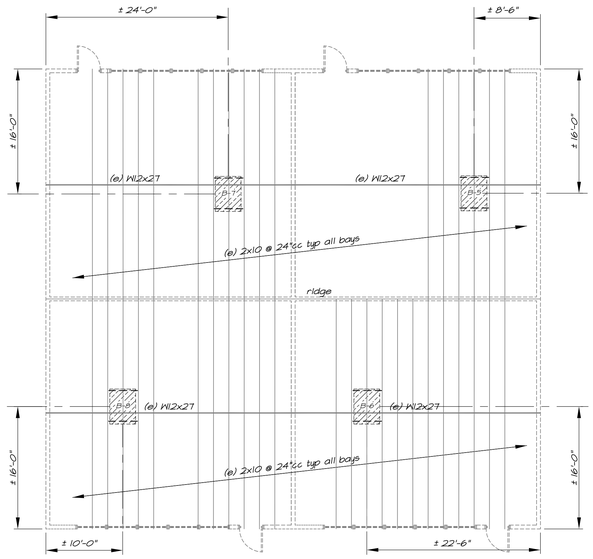
# TYPICAL DETAILS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | S1.1 |
| Drawn / Checked | |
| GSL / JMM | |

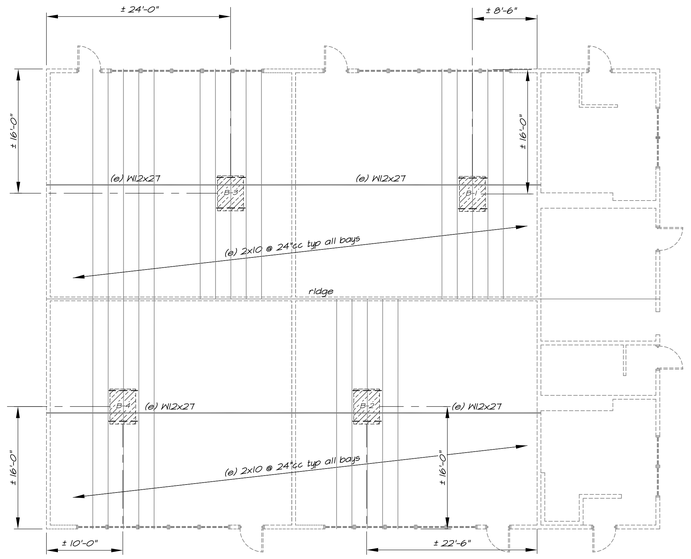



## Partial Roof Framing Plan - Building A

1 / S2.1 — 1/8"=1'-0"




Typical Framing at all Classrooms




## Partial Roof Framing Plan - Buildings B & C

2 / S2.1 — 1/8"=1'-0"

### Roof Framing Plan Notes:

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

| Unit/s | Max. Weight | Notes |
|---|---|---|
| A-1 & A-2 | 300 lbs. | see 6/M0.3 |
| A-3 | 220 lbs. | see 6/M0.3 |
| A-4 | 165 lbs. | see 6/M0.3 |
| B-1 thru B-8 | 220 lbs. | see 6/M0.3 |

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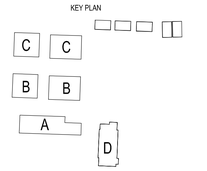
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| ● DSA BACK CHECK | 04/24/2023 |
| ○ BIDDING | |
| ○ CONSTRUCTION | |

KEY PLAN




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SAN JOSE, CA 95127

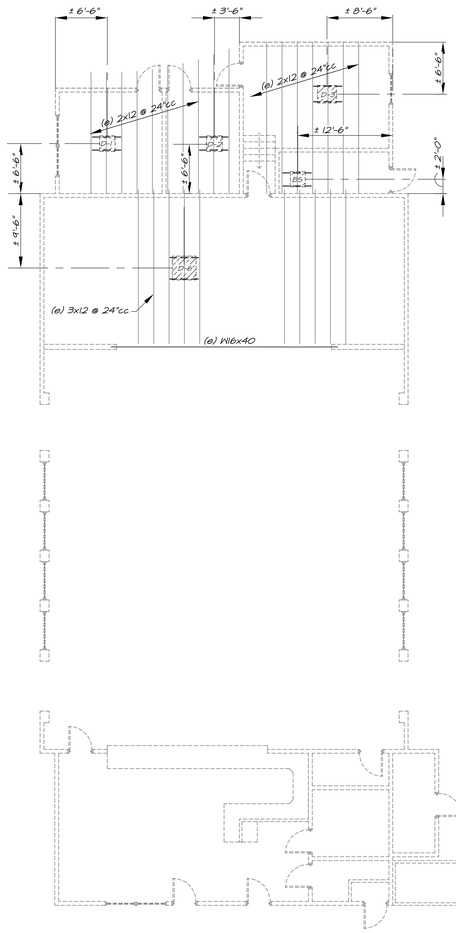
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
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PARTIAL ROOF FRAMING PLANS - BUILDINGS A, B, & C

| | |
|---|---|
| Date 04/24/2023 | Project Number 22025 |
| Application Number 01-120630 | Drawing Number S2.1 |
| Drawn GSL | Checked JMM |




## 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. | see 6/M0.3 |
| D-3 | 100 lbs. | see 6/M0.3 |
| D-6 | 100 lbs. | see 6/M0.3 |
| BS | 100 lbs. | see 6/M0.3 |

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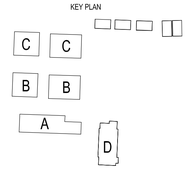
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| ○ CONSTRUCTION | |

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 PLAN - BUILDING D

| Date | Project Number |
|---|---|
| 04/24/2023 | 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.

## ASHRAE 15:8.10.1 - CMC 1109.4.1

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

## MECHANICAL LEGEND

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

## MECHANICAL SPECIFICATIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## MECHANICAL SHEET INDEX


| SHEET NUMBER | SHEET NAME |
|---|---|
| M0.01 | MECHANICAL LEGEND & NOTES |
| M0.02 | MECHANICAL SCHEDULES |
| M0.03 | MECHANICAL SCHEDULES |
| M0.04 | MECHANICAL DETAILS |
| M1.00 | MECHANICAL SITE PLAN |
| M3.10 | MECHANICAL FLOOR PLAN BUILDING A |
| M3.11 | MECHANICAL FLOOR PLAN BUILDING B |
| M3.12 | MECHANICAL FLOOR PLAN BUILDING C |
| M3.13 | MECHANICAL FLOOR PLAN BUILDING D |
| M5.10 | MECHANICAL CONTROLS |
| M5.11 | MECHANICAL CONTROLS |
| M5.12 | MECHANICAL PIPING AND WIRING DIAGRAMS |
| M5.13 | MECHANICAL PIPING AND WIRING DIAGRAMS |
| M5.14 | MECHANICAL PIPING AND WIRING DIAGRAMS |


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 BRYAN ENNIS M 41413 REN. 03-31-25 MECHANICAL STATE OF CALIFORNIA |

GENERAL NOTES

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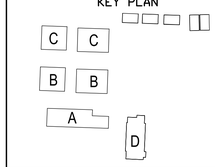
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
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DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

# MECHANICAL LEGEND AND NOTES

| | |
|---|---|
| Date | Project Number |
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | 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. |
| B | CEILING RETURN | EGGCRATE GRILLE WITH 1/2"x1/2"x1/2" GRID, FRAME FOR LAY-IN T-BAR MOUNTING. TITUS MODEL 50R. |
| C | CEILING SUPPLY | STEEL LOUVERED FACE DIFFUSER WITH FRAME FOR SURFACE MOUNTING. TITUS MODEL MCD. |
| D | CEILING RETURN | EGGCRATE GRILLE WITH 1/2"x1/2"x1/2" GRID, FRAME FOR SURFACE MOUNTING. TITUS MODEL 50R. |
| E | CEILING EXHAUST | EGGCRATE GRILLE WITH 1/2"x1/2"x1/2" GRID, FRAME FOR SURFACE MOUNTING. TITUS MODEL 50R. |
| F | DUCT MOUNT SUPPLY | DOUBLE DEFLECTION, INDIVIDUALLY ADJUSTABLE BLADES WITH 3/4" SPACING FOR DUCT MOUNTING, AIR SCOOP DAMPER EXTRACTOR. TITUS MODEL S300FL. |
| I | SIDEWALL RETURN/ EXHAUST | EGGCRATE GRILLE WITH 1/2"x1/2"x1/2" GRID, FRAME FOR SURFACE MOUNTING. TITUS MODEL 50R. |

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 | HORIZONTAL | 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. PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. |
| FC | A–2 | HORIZONTAL | 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. PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. |
| FC | A–3 | HORIZONTAL | 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. PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. |
| FC | A–4 | HORIZONTAL | 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. PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. |
| FC | A–5 | VERTICAL | 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. PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. |
| FC | B–1 TO B–8 | HORIZONTAL | 208 | 1 | 2.9 | 15 | – | 1,120 | 0.8 | – | – | 36,000 | 28,800 | – | – | 94 | DX | 40,000 | – | 29 | MERV–13 | HP–B–1 | 160 | DAIKIN | FXMQ36 | PROVIDE BACnet CARD. PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. |
| FC | C–1 TO C–8 | HORIZONTAL | 208 | 1 | 2.9 | 15 | – | 1,120 | 0.8 | – | – | 36,000 | 28,800 | – | – | 94 | DX | 40,000 | – | 29 | MERV–13 | HP–C–1 | 160 | DAIKIN | FXMQ36 | PROVIDE BACnet CARD. PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. |
| FC | D–1 TO D–2 | CASSETTE | 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. PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. |
| FC | D–3 | HORIZONTAL | 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. PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. |
| FC | D–4 TO D–5 | VERTICAL | 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 2019 CALIFORNIA MECHANICAL CODE, SECTION 609. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR. PROVIDE BACnet CARD. PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. |
| FC | D–6 | CASSETTE | 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. PROVIDE FACTORY FILTER BOX WITH MERV–13 FILTERS. SEE MECHANICAL CONTROLS DRAWINGS FOR CONTROLS REQUIREMENTS. SEE PIPING AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP AS REQUIRED. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. |

## 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.

## 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 | COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE FACTORY CONDENSER COIL HAIL GUARDS. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT PIPING WITH MANUFACTURER FOR SIZING, INSTALLATION AND REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS. |
| HP | B–1 | VRV | FLOOR | 208 | 3 | 95.6 | 100 | –/ 11.00 | – | R–410A | 274,000 | 294,000 | – | 1885 | DAIKIN | REYQ288 | COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE FACTORY CONDENSER COIL HAIL GUARDS. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT PIPING WITH MANUFACTURER FOR SIZING, INSTALLATION AND REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS. |
| HP | C–1 | VRV | FLOOR | 208 | 3 | 95.6 | 100 | –/ 11.00 | – | R–410A | 274,000 | 294,000 | – | 1885 | DAIKIN | REYQ288 | COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE FACTORY CONDENSER COIL HAIL GUARDS. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT PIPING WITH MANUFACTURER FOR SIZING, INSTALLATION AND REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS. |
| HP | D–1 | VRV | FLOOR | 208 | 3 | 54.9 | 60 | –/ 11.10 | – | R–410A | 160,000 | 180,000 | FC–3–5 | 945 | DAIKIN | REYQ168 | COORDINATE WITH ELECTRICAL FOR POWER CONNECTION. PROVIDE FACTORY CONDENSER COIL HAIL GUARDS. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT PIPING WITH MANUFACTURER FOR SIZING, INSTALLATION AND REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CONTROLS DRAWINGS FOR ADDITIONAL REQUIREMENTS. |

## OUTSIDE AIR SCHEDULE

| SYSTEM NAME | MIN. OSA CFM | MAX. OSA CFM | DEMAND CONTROL VENT. (Y/N) |
|---|---|---|---|
| FC–A–1 | 480 | – | N |
| FC–A–2 | 480 | – | N |
| FC–A–3 | 400 | – | N |
| FC–A–4 | 220 | – | N |
| FC–A–5 | 235 | – | N |
| FC–B–1 | 370 | – | N |
| FC–B–2 | 370 | – | N |
| FC–B–3 | 370 | – | N |
| FC–B–4 | 370 | – | N |
| FC–B–5 | 370 | – | N |
| FC–B–6 | 370 | – | N |
| FC–B–7 | 370 | – | N |
| FC–B–8 | 370 | – | N |
| FC–C–1 | 370 | – | N |
| FC–C–2 | 370 | – | N |
| FC–C–3 | 370 | – | N |
| FC–C–4 | 370 | – | N |
| FC–C–5 | 370 | – | N |
| FC–C–6 | 370 | – | N |
| FC–C–7 | 370 | – | N |
| FC–C–8 | 370 | – | N |
| FC–D–1 | 30 | – | N |
| FC–D–2 | 25 | – | N |
| FC–D–3 | 85 | – | N |
| FC–D–4 | 625 | – | N |
| FC–D–5 | 625 | – | N |
| FC–D–6 | 50 | – | N |

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

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

## OUTDOOR UNIT (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.

## 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. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.PROVIDE ISOLATION VALVES FOR SERVICING OF BRANCH SELECTOR BOX AND FAN COIL UNIT. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT PIPING WITH MANUFACTURER FOR SIZING, INSTALLATION AND REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.SEE CONTROL DRAWINGS FOR ADDITIONAL REQUIREMENTS. |
| 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. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.PROVIDE ISOLATION VALVES FOR SERVICING OF BRANCH SELECTOR BOX AND FAN COIL UNIT. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT PIPING WITH MANUFACTURER FOR SIZING, INSTALLATION AND REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.SEE CONTROL DRAWINGS FOR ADDITIONAL REQUIREMENTS. |
| 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. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.PROVIDE ISOLATION VALVES FOR SERVICING OF BRANCH SELECTOR BOX AND FAN COIL UNIT. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT PIPING WITH MANUFACTURER FOR SIZING, INSTALLATION AND REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.SEE CONTROL DRAWINGS FOR ADDITIONAL REQUIREMENTS. |
| 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. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.PROVIDE ISOLATION VALVES FOR SERVICING OF BRANCH SELECTOR BOX AND FAN COIL UNIT. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT PIPING WITH MANUFACTURER FOR SIZING, INSTALLATION AND REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.SEE CONTROL DRAWINGS FOR ADDITIONAL REQUIREMENTS. |
| BS | D–1 | CEILING | 208 | 1 | 0.6 | 15 | R–410A | 230,000 | – | HP–D–1 | 88 | DAIKIN | BSF6Q54TVJ | SERVICES HP–D–1. COORDINATE WITH ELECTRICAL FOR POWER CONNECTION.PROVIDE ISOLATION VALVES FOR SERVICING OF BRANCH SELECTOR BOX AND FAN COIL UNIT. CONTRACTOR TO COORDINATE EXACT ROUTING OF REFRIGERANT PIPING WITH MANUFACTURER FOR SIZING, INSTALLATION AND REFRIGERANT CHARGE REQUIREMENTS PRIOR TO ORDERING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.SEE CONTROL DRAWINGS FOR ADDITIONAL REQUIREMENTS. |

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ENGINEER
REGISTERED PROFESSIONAL ENGINEER — BRYAN ENNIS — M 41413 — REN. 03–31–25 — MECHANICAL — STATE OF CALIFORNIA

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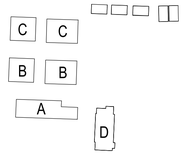
REVISION HISTORY

| NO. | REMARKS | DATE |
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DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

MECHANICAL SCHEDULES

Date 04/24/2023
Project Number 22025
Application Number 01-120630
Drawing Number M0.02
Drawn KT
Checked CD

## EXHAUST FAN SCHEDULE

| TYPE | MARK | FAN TYPE | MOUNT | ELECTRICAL | | | | CFM | E.S.P. (IN.WC) | DRIVE | FAN RPM | SONES (FPM) | SERVICE | CONTROL | OPERATING WEIGHT | MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HP | WATTS | VOLT | PHASE | | | | | | | | | | | |
| CEF | A–1 | CENTRIFUGAL | CEILING | – | 81 | 115 | 1 | 125 | 0.25 | DIRECT | 691 | 0.4 | TOILET A14 | 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 | TOILET A15 | 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 | WOMEN A05 | 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 | TOILET A04 | 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 | GIRLS B04 | BMS | 65 | GREENHECK | G–100–VG | PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE. |
| REF | B–2 | CENTRIFUGAL | ROOF | 1/15 | – | 115 | 1 | 150 | 0.25 | DIRECT | 1257 | 2.5 | STAFF B02 | 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 | BOYS B01 | BMS | 65 | GREENHECK | G–100–VG | PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE. |
| REF | C–1 | CENTRIFUGAL | ROOF | 1/4 | – | 115 | 1 | 425 | 0.25 | DIRECT | 833 | 2.7 | GIRLS C04 | BMS | 65 | GREENHECK | G–100–VG | PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE. |
| REF | C–3 | CENTRIFUGAL | ROOF | 1/4 | – | 115 | 1 | 425 | 0.25 | DIRECT | 833 | 2.7 | BOYS C01 | BMS | 65 | GREENHECK | G–100–VG | PROVIDE BACK DRAFT DAMPER AND BIRDSCREEN, PRE–WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCAITON, MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE. |
| SF | D–1 | CENTRIFUGAL | CEILING | 3/4 | – | 115 | 1 | 2,500 | 0.5 | DIRECT | 1068 | 10.2 | KITCHEN D07 | 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. |

## GRAVITY VENTILATOR SCHEDULE

| TYPE | MARK | MOUNTING | AIRFLOW | | | | | CONTROL | OPER. WEIGHT (LBS.) | MANUFACTURER | MODEL NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CFM | THROAT SIZE (IN.) | THROAT AREA (SF) | THROAT VELOC. (FPM) | PRESS. DROP (IN–WC) | | | | |
| RH | A–1 | ROOF | 480 | 14X14 | 1.36 | 353 | 0.021 | GRAVITY DAMPER | 50 | GREENHECK | FGR–14X14 |
| RH | A–2 | ROOF | 480 | 14X14 | 1.36 | 353 | 0.021 | GRAVITY DAMPER | 50 | GREENHECK | FGR–14X14 |
| RH | A–3 | ROOF | 400 | 12X12 | 1 | 400 | 0.027 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | B–1 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | B–2 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | B–3 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | B–4 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | B–5 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | B–6 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | B–7 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | B–8 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | C–1 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | C–2 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | C–3 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | C–4 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | C–5 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | C–6 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | C–7 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | C–8 | ROOF | 370 | 12X12 | 1 | 370 | 0.023 | GRAVITY DAMPER | 45 | GREENHECK | FGR–12X12 |
| RH | D–1 | ROOF | 1730 | 26X26 | 4.69 | 369 | 0.023 | GRAVITY DAMPER | 100 | GREENHECK | FGR–26X26 |
| IH | D–1 | ROOF | 2500 | 32X32 | 7.11 | 352 | 0.021 | GRAVITY DAMPER | 145 | GREENHECK | FGR–32X32 |
| IH | D–2 | ROOF | 1730 | 26X26 | 4.69 | 369 | 0.023 | GRAVITY DAMPER | 100 | GREENHECK | FGR–26X26 |

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

DSA STAMP


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REGISTERED PROFESSIONAL ENGINEER
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REN. 03–31–25
MECHANICAL
STATE OF CALIFORNIA

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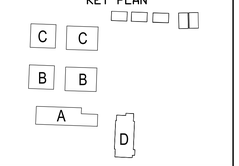
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




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

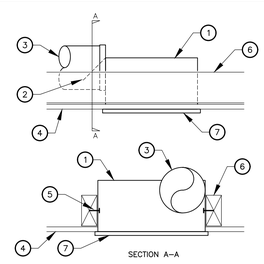
CONSTRUCTION DOCUMENTS

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

MECHANICAL SCHEDULES

Date 04/24/2023
Project Number 22025
Application Number 01-120630
Drawing Number M0.03
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



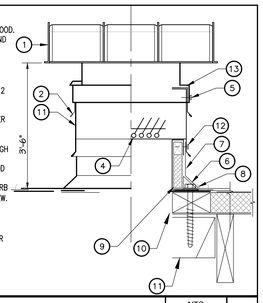

MEQSA01B

## 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. PROVIDE 2-#12 SMS, MIN. 4 PER SIDE.

* (BY GENERAL CONTRACTOR)

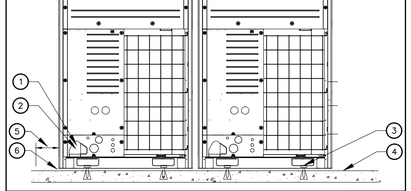



MEQSA10E

## 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-2 STAINLESS STEEL EXPANSION ANCHORS, 4" MIN EMBEDMENT. TORQUE TEST TO 65 FT-LBS. (TYP. 4 PER SECTION)
4. (N) CONCRETE PAD PER STRUCTURAL DRAWINGS.
5. MIN. 18" ALL AROUND UNIT.
6. NEOPRENE PAD UNDER UNIT, 3/8" MAX THICKNESS.



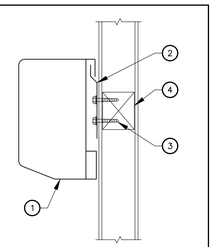
MEQSA02B

## HEAT PUMP UNIT MOUNTING DETAIL

NTS | 13

1. INDOOR UNIT, SEE SCHEDULE
2. MOUNTING BRACKET SUPPLIED WITH INDOOR UNIT
3. 3/8"x3" LAG SCREW, (TYP)
4. 4x4 BLOCKING, SECURE TO WALL FRAMING WITH A34 HANGER AT TOP & BOTTOM OF EACH END

NOTE:
1. INSTALL INDOOR UNIT PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ADDITIONAL BLOCKING AND HARDWARE WHERE REQUIRED BY MANUFACTURER.

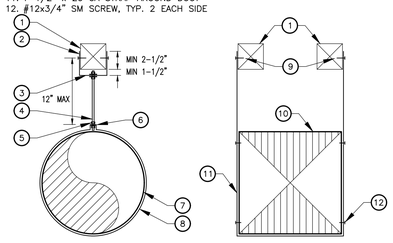


MEQSA03A

## INDOOR UNIT MOUNTING (WALL MOUNT)

NTS | 14

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



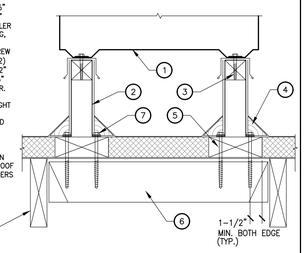

NOTE:
1. SUPPORT DUCTWORK AT 8'-0" O.C.
2. BLOCKING CONDITION IS SHOWN, 2x JOIST CONDITION IS SIMILAR WITH STRAPS AND LAG BOLTS ATTACHING DIRECTLY TO 2x ROOF JOISTS.
3. PER 2019 CBC, SEISMIC RESTRAIN IS NOT REQUIRED FOR RECTANGULAR DUCTS LESS THAN 6 SQ. FT. CROSS SECTION OR ROUND DUCTS LESS THAN 28"ø.

MEQSA02A

## TYPICAL DUCT SUPPORT DETAIL

NTS | 8

1. OUTDOOR CONDENSING UNIT, SEE SCHEDULE
2. PREFAB GALV. SHEET METAL CURB, MIN. 3.5" WIDTH, 8" HIGH x 24" LONG WITH WOOD NAILER AND COUNTERFLASHING, TYP. 2
3. 3/8"ø GALV. LAG SCREW INTO WOOD NAILER. (2) PER SIDE MIN., MIN. 2" INTO NAILER, MIN. 1.5" FROM EDGE OF NAILER. SILICONE SEAL PENETRATION WATERTIGHT
4. CANT STRIP, TYP.
5. 4X PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN. 2" HIGH. TOP FLAT/LEVEL
6. 4X BLOCKING BETWEEN JOISTS, SECURE TO ROOF JOISTS W/ U46 HANGERS
7. (2) 3/8"ø GALV. LAG SCREWS W/ 3" MIN EMBEDMENT, AT EACH END OF CURBS

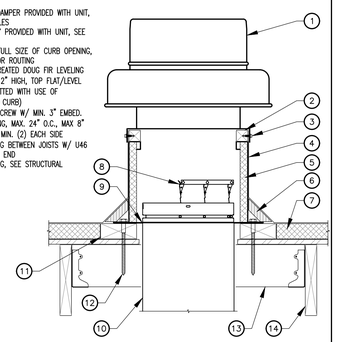



MEQSA02D

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

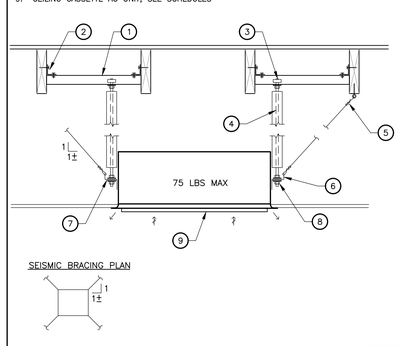


MEQSA02C

## 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

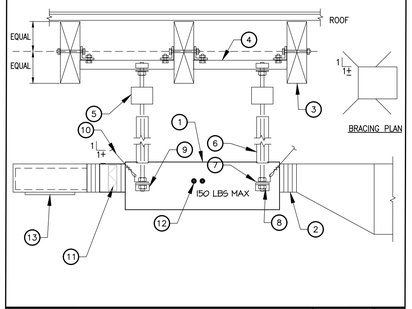



MEQSA02E

## CASSETTE INDOOR UNIT MOUNTING

DETAIL 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.

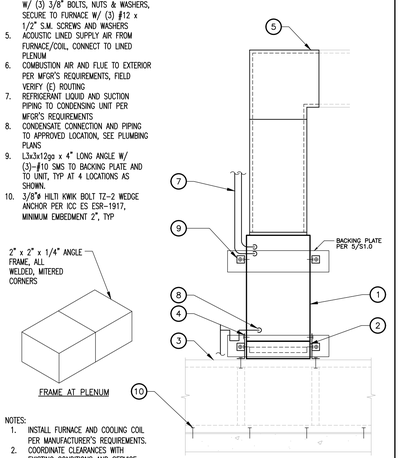



MEQSA04B

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

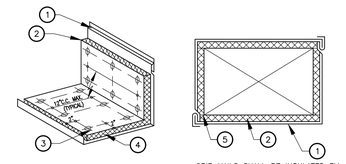



NOTES:
1. INSTALL FURNACE AND COOLING COIL PER MANUFACTURER'S REQUIREMENTS.
2. COORDINATE CLEARANCES WITH EXISTING CONDITIONS AND SERVICE REQUIREMENTS.

## 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.

MEQSA02A

## 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 |

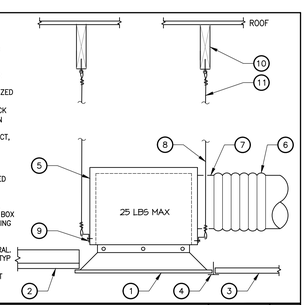
(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

MDUSC01A

## 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
10. NEW OR (E) ROOF JOIST. SEE STRUCTURAL.
11. 12 GA SLACK WIRE, TYP 4, (4) TIGHT TURNS WITH 1-1/2", TYP AT EACH END

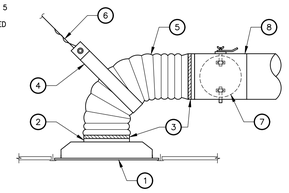



MDUEQ01C

## DIFFUSER/GRILLE INSTALLATION

NTS | 3

1. GRILLE/DIFFUSER
2. ADAPTER WHERE REQUIRED
3. STEEL LOCKING STRAP
4. 4" X 20 GA 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



MDUEQ01D

## DIFFUSER/GRILLE INSTALLATION

NTS | 4

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Job #: 22-2198


| ARCHITECT | ENGINEER |
|---|---|
| LICENSED ARCHITECT BRYAN P. WHITTHORN No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA | REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-25 MECHANICAL STATE OF CALIFORNIA |

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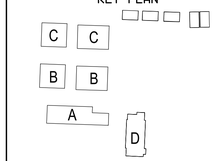
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN



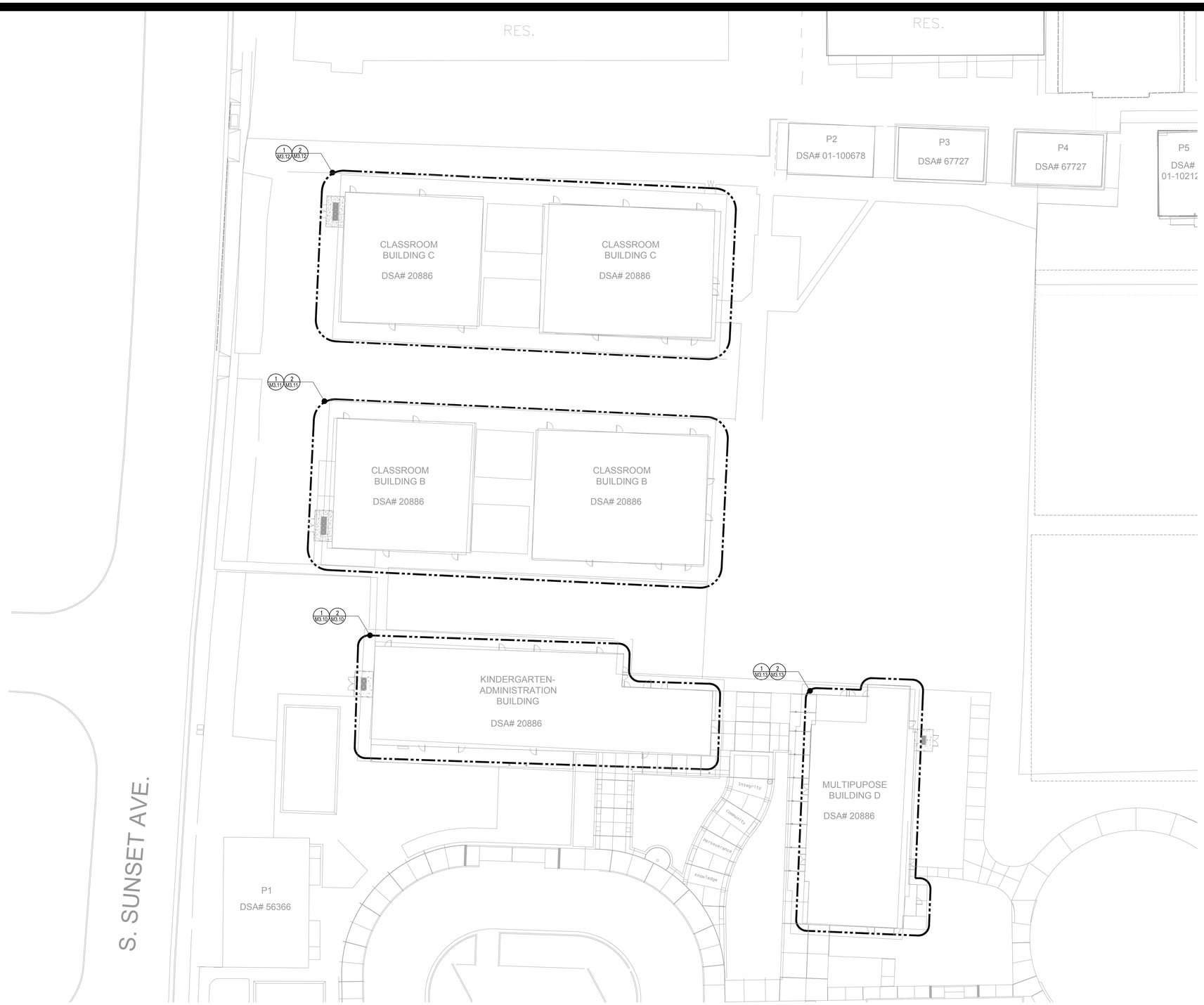

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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

MECHANICAL DETAILS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | M0.04 |
| Drawn / Checked | |
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**MECHANICAL SITE PLAN** | **1** 1" = 20'

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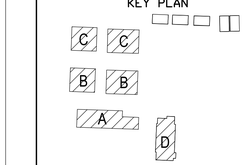
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
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CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

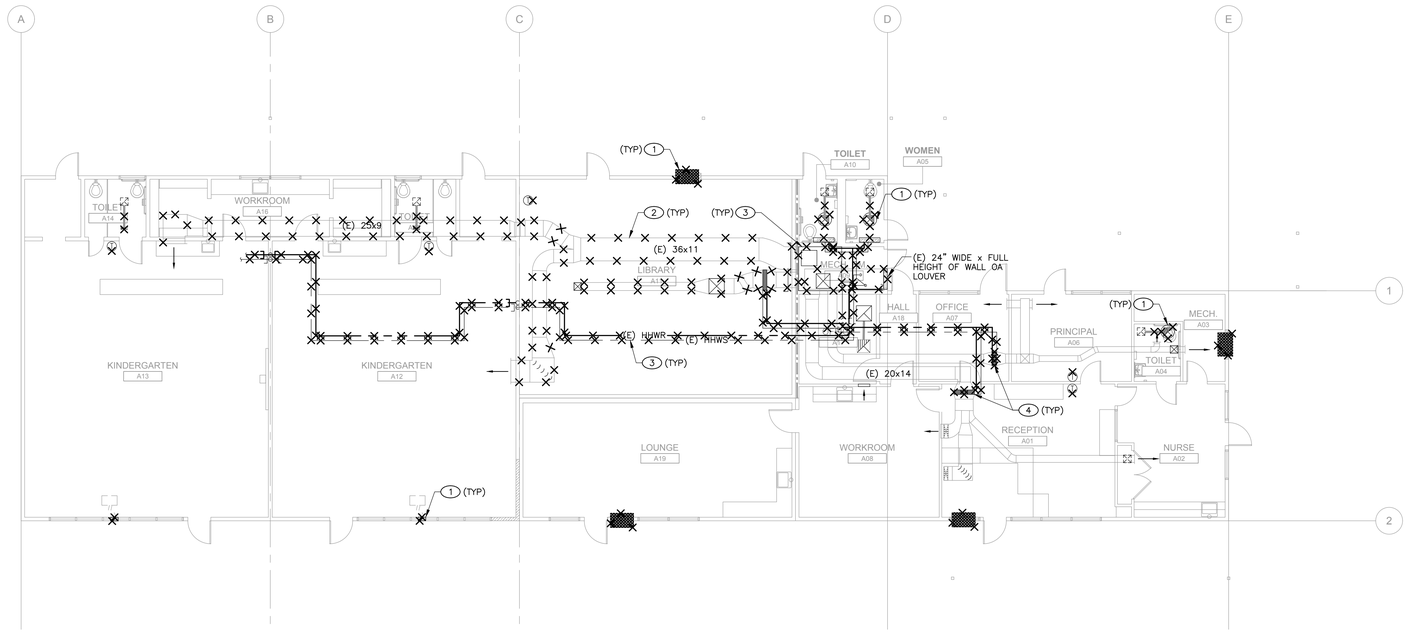
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SAN JOSE, CA 95116

MECHANICAL SITE PLAN

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | M1.00 |
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| KT / CD | |

## KEY NOTES

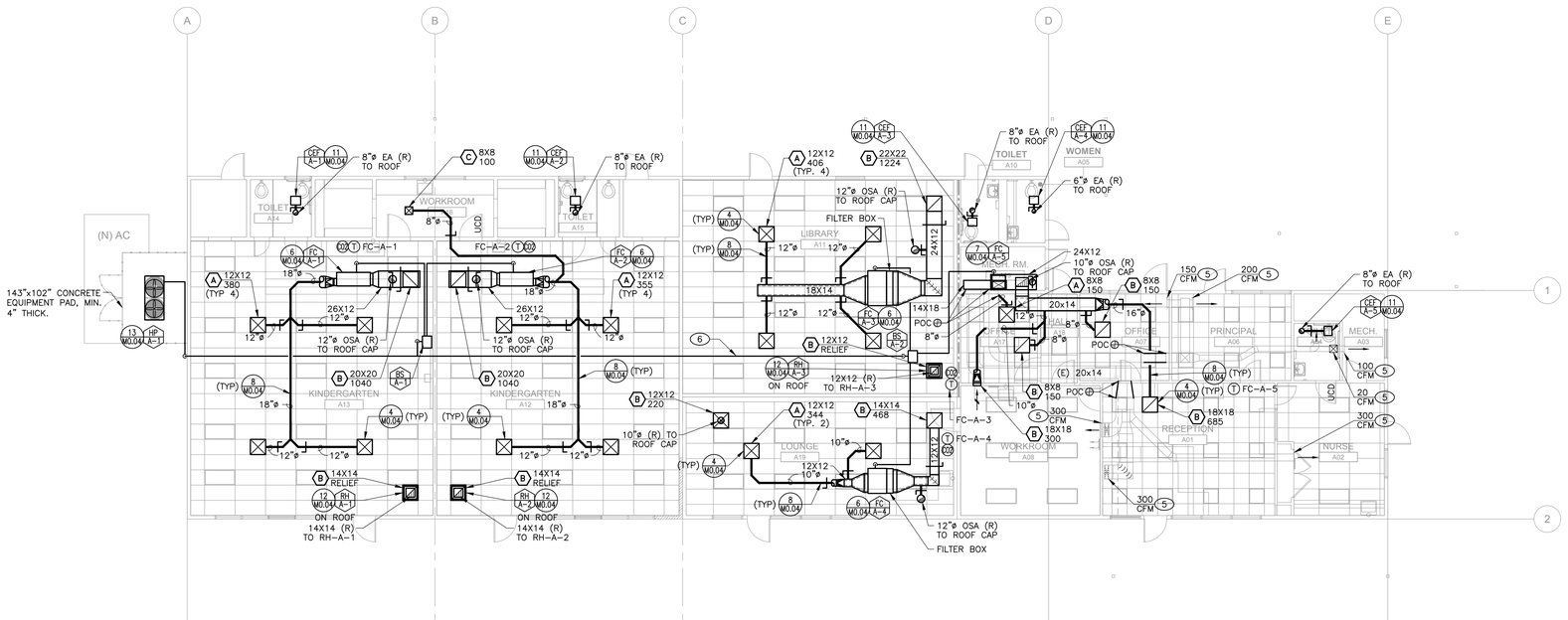
1. REMOVE EXISTING MECHANICAL EQUIPMENT SHOWN HATCHED AND RELATED DUCTWORK BACK TO POD.
2. REMOVE EXISTING DUCTWORK SHOWN HATCHED.
3. REMOVE EXISTING PIPING SHOWN HATCHED.
4. REMOVE EXISTING FAN COIL UNIT.
5. RE-BALANCE EXISTING OUTLET/INLET TO AIR QUANTITY SHOWN. PROVIDE BALANCE DAMPER AS REQUIRED.
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. CLEAN EXISTING DUCTWORK PER SPECIFICATION NUMBER 23-01-30.51.

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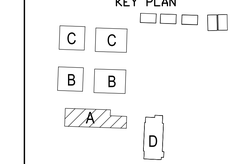
REVISION HISTORY

| NO. | REMARKS | DATE |
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DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

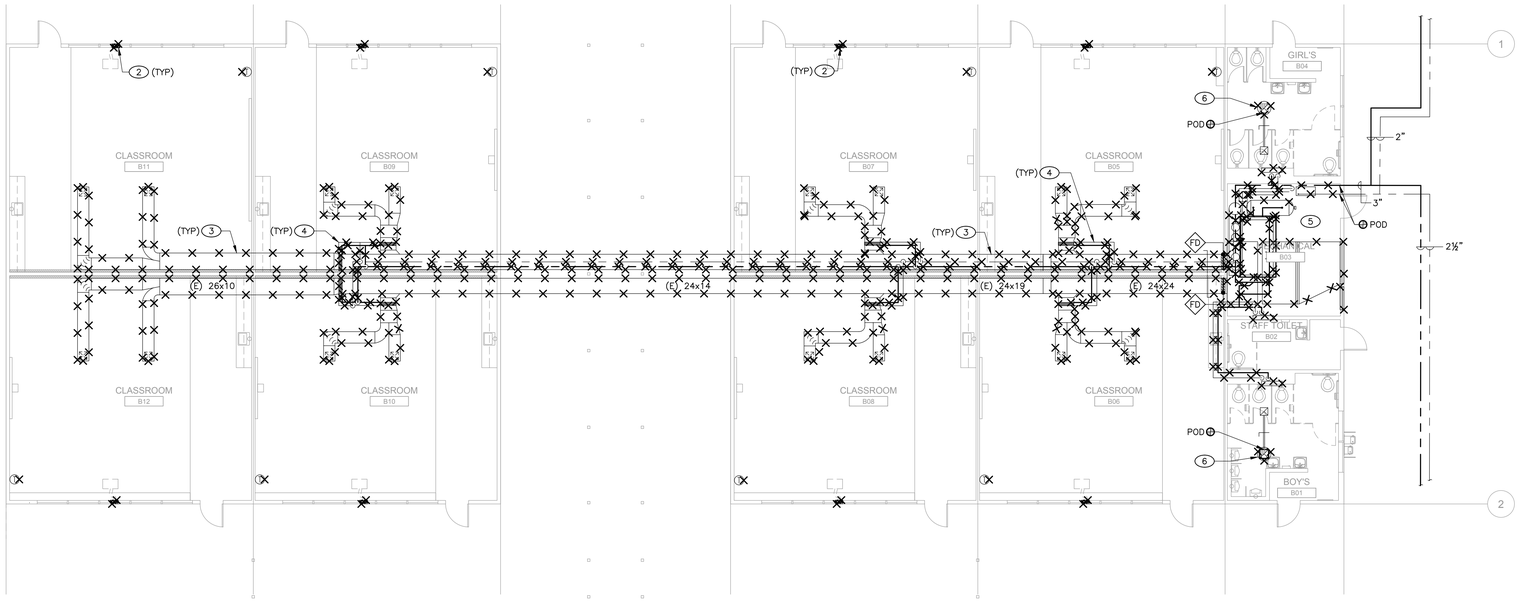
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

MECHANICAL FLOOR PLAN BUILDING A

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | M3.10 |
| Drawn / Checked | |
| KT / CD | |

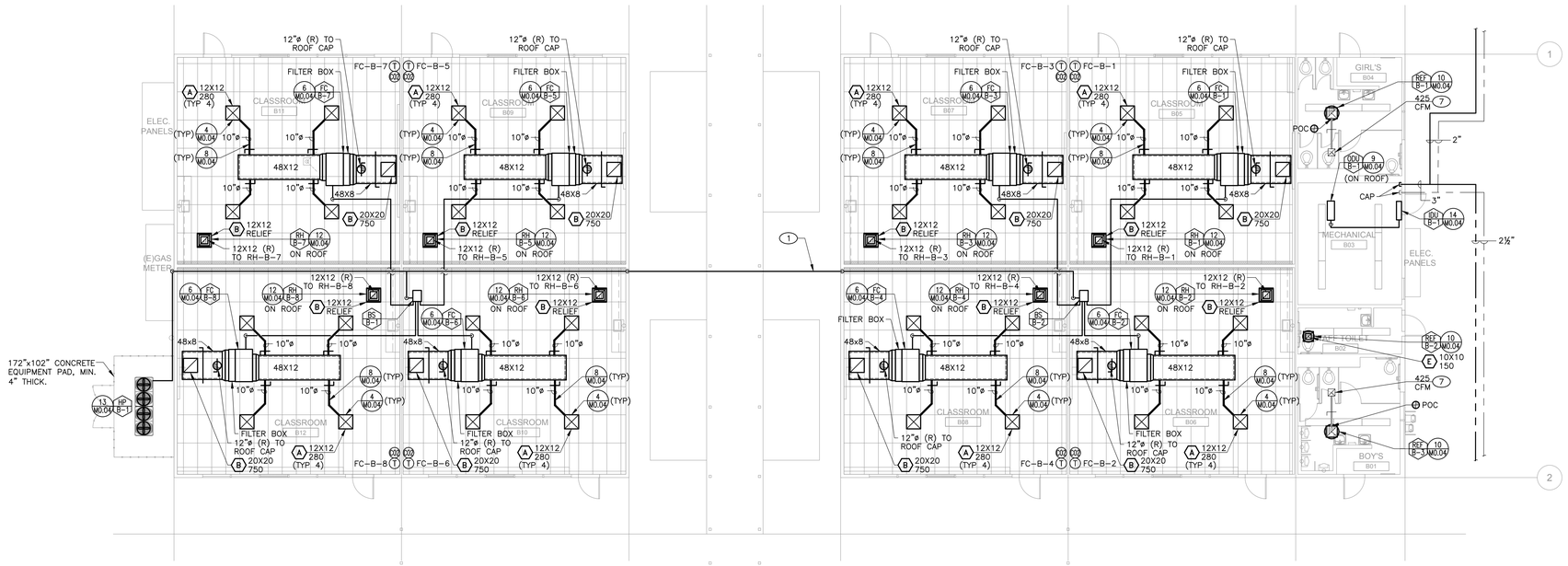
## KEY NOTES

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.
6. REMOVE EXISTING EXHAUST FAN SHOWN HATCHED. EXISTING DUCTWORK AND DIFFUSER TO REMAIN FOR CONNECTION TO NEW EXHAUST FAN.
7. RE-BALANCE EXISTING OUTLET/INLET TO AIR QUANTITY SHOWN. PROVIDE BALANCE DAMPER AS REQUIRED.




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

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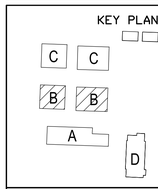
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
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DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

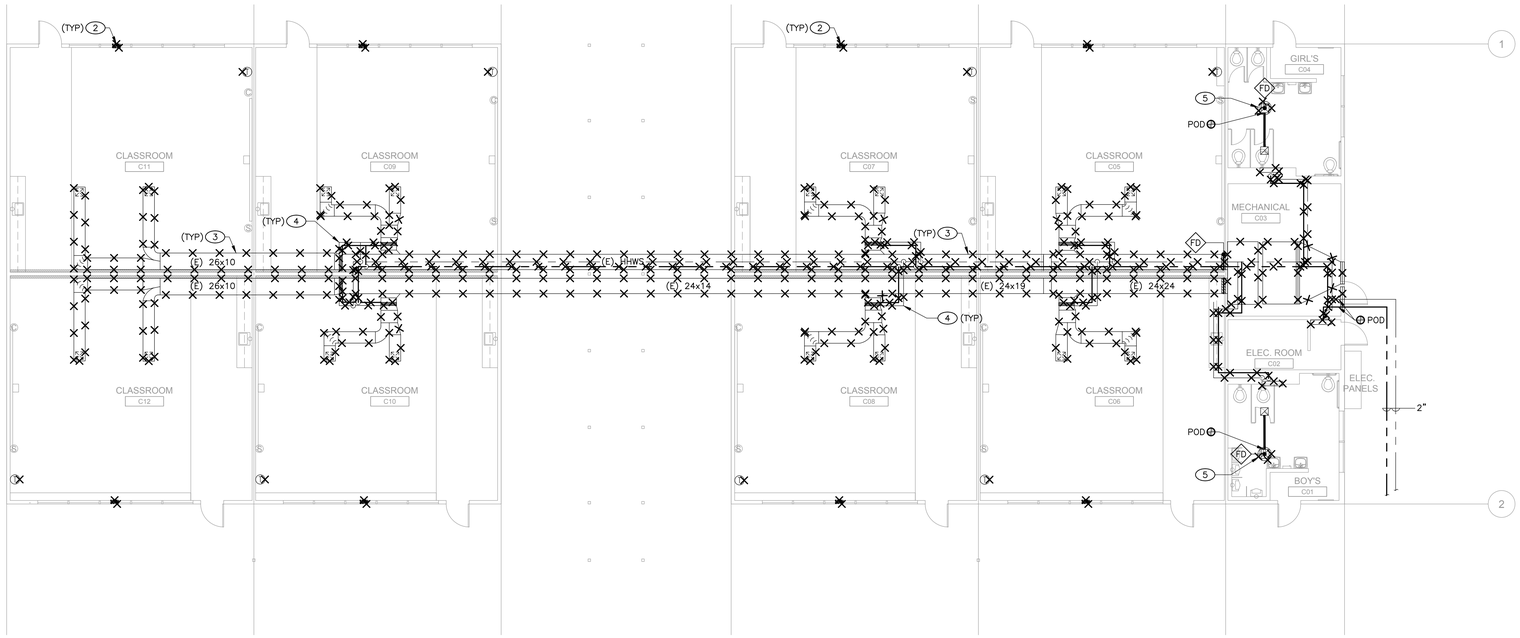
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MECHANICAL FLOOR PLAN BUILDING B

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | M3.11 |
| Drawn / Checked | |
| KT / CD | |

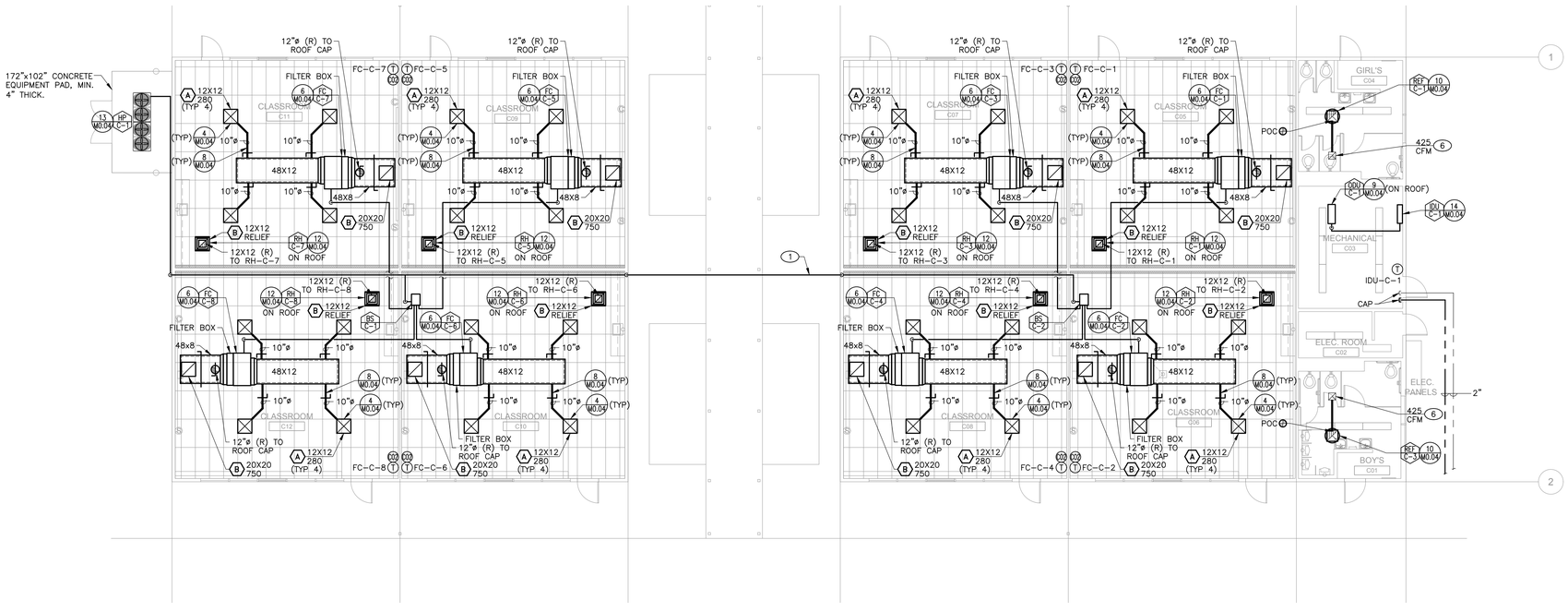
## KEY NOTES

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.
5. REMOVE EXISTING EXHAUST FAN SHOWN HATCHED. EXISTING DUCTWORK TO REMAIN FOR CONNECTION TO NEW EXHAUST FAN.
6. RE-BALANCE EXISTING OUTLET/INLET TO AIR QUANTITY SHOWN. PROVIDE BALANCE DAMPER AS REQUIRED.




## DEMO MECHANICAL FLOOR PLAN - BUILDING C | 1

1/8" = 1'-0"




## MECHANICAL FLOOR PLAN - BUILDING C | 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. CLEAN EXISTING DUCTWORK PER SPECIFICATION NUMBER 23-01-30.51.

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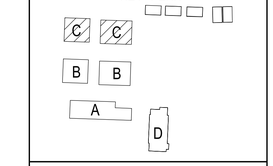
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KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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CONSTRUCTION DOCUMENTS

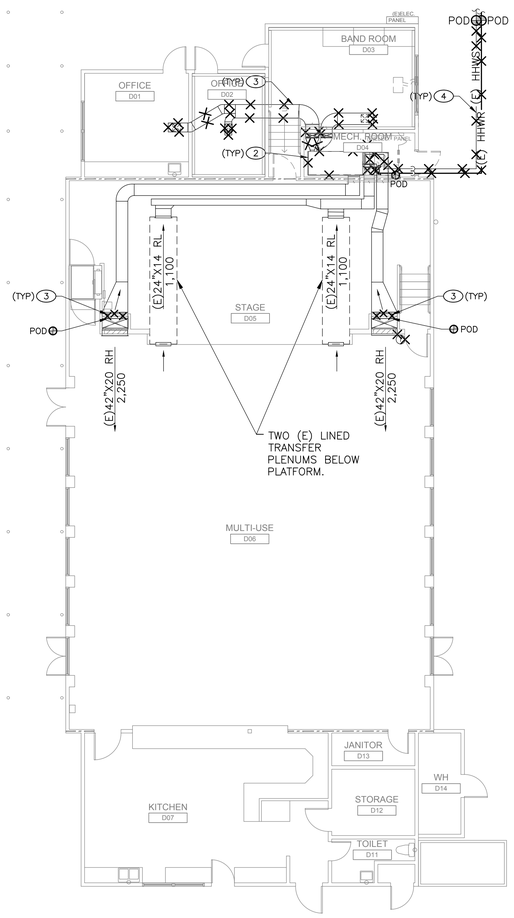
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SAN JOSE, CA 95116

MECHANICAL FLOOR PLAN BUILDING C

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | M3.12 |
| Drawn / Checked | |
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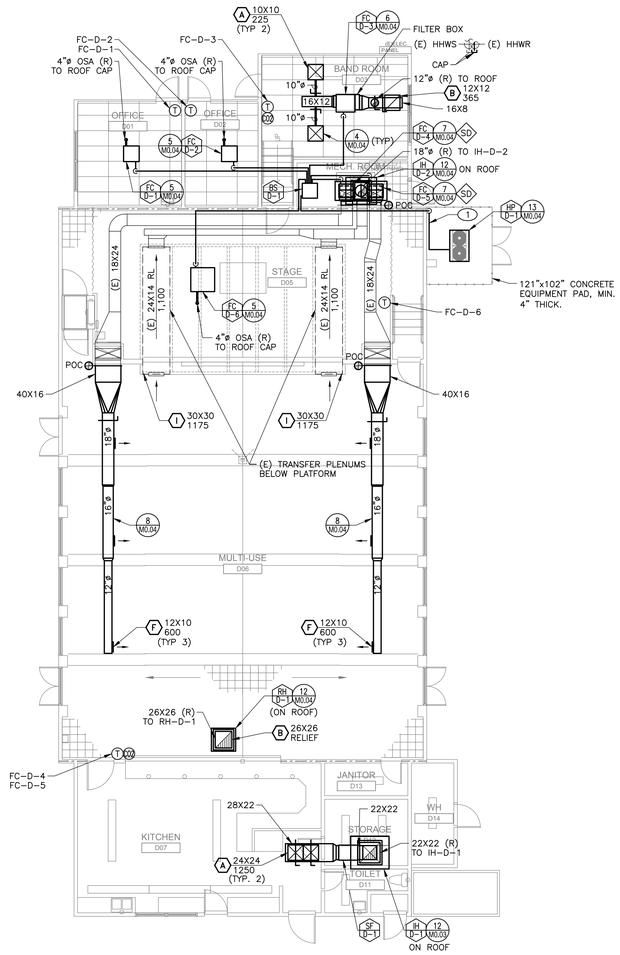
## KEY NOTES

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 D | 2

1/8" = 1'-0"




## MECHANICAL FLOOR PLAN - BUILDING D | 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. CLEAN EXISTING DUCTWORK PER SPECIFICATION NUMBER 23-01-30.51.

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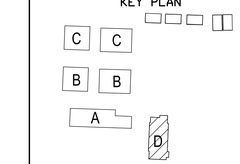
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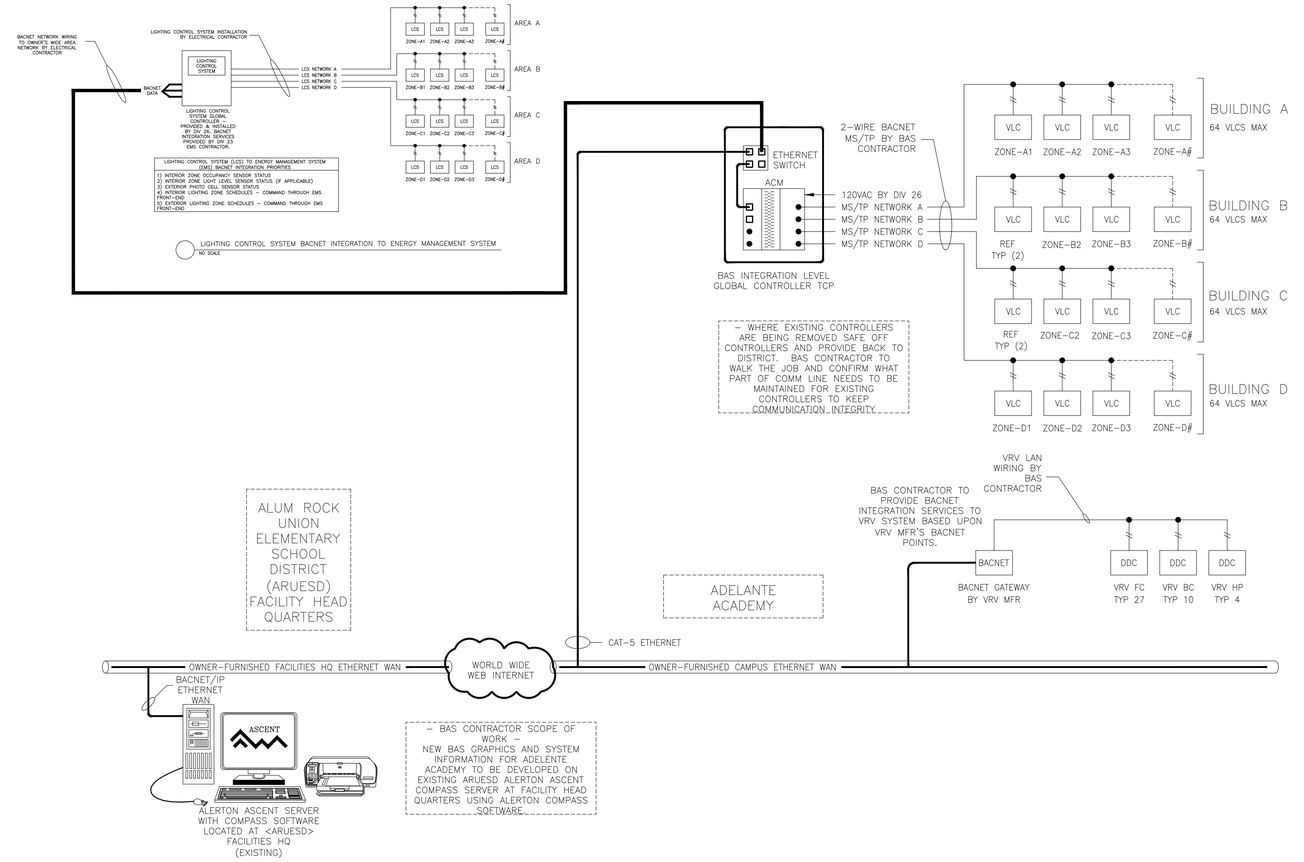

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MECHANICAL FLOOR PLAN BUILDING D

| Date | Project Number |
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| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | M3.13 |
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ALERTON BACNET BAS SYSTEM - NETWORK ARCHITECTURE | NTS | 1

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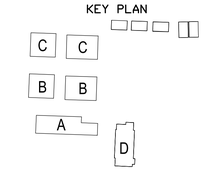
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MECHANICAL CONTROLS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | M5.10 |
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VRV System with Factory Controls

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

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

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

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

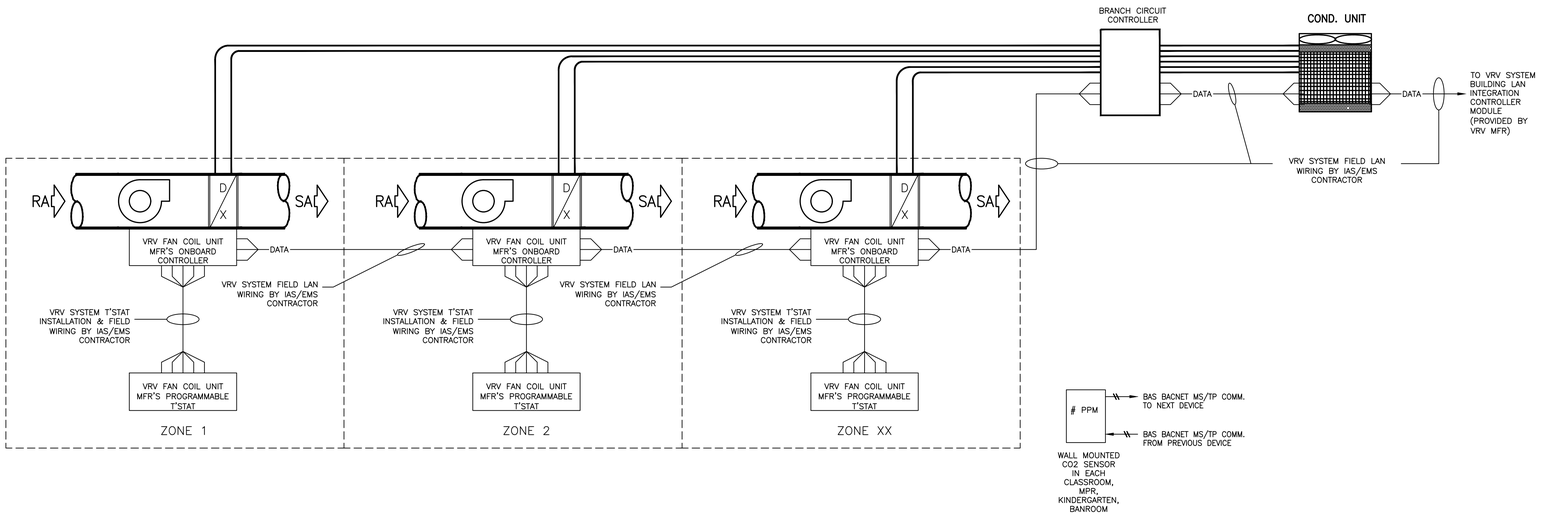
5. Automatic Demand Reduction Controls
   a. EMS shall be programmed with capability to implement centralized demand shed for all non-critical zones upon call for Automatic Demand Reduction. Critical zones shall not be impacted by demand shed conservation measures.

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

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

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

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




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

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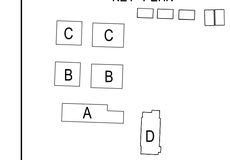
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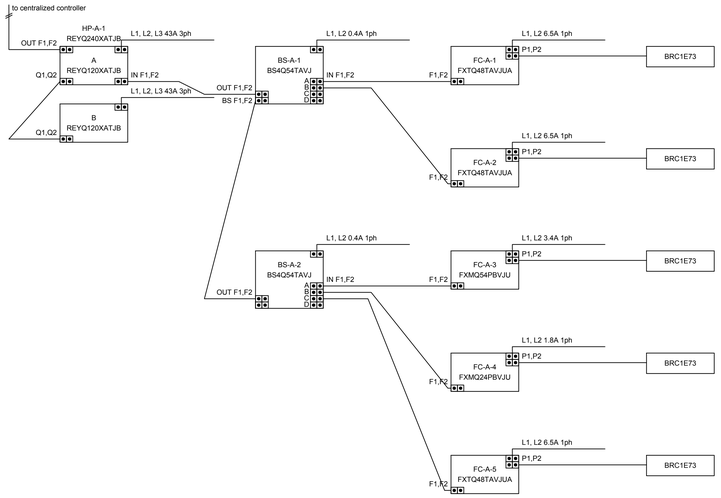

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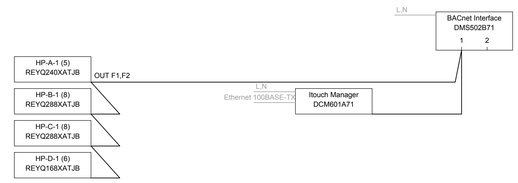
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MECHANICAL CONTROLS

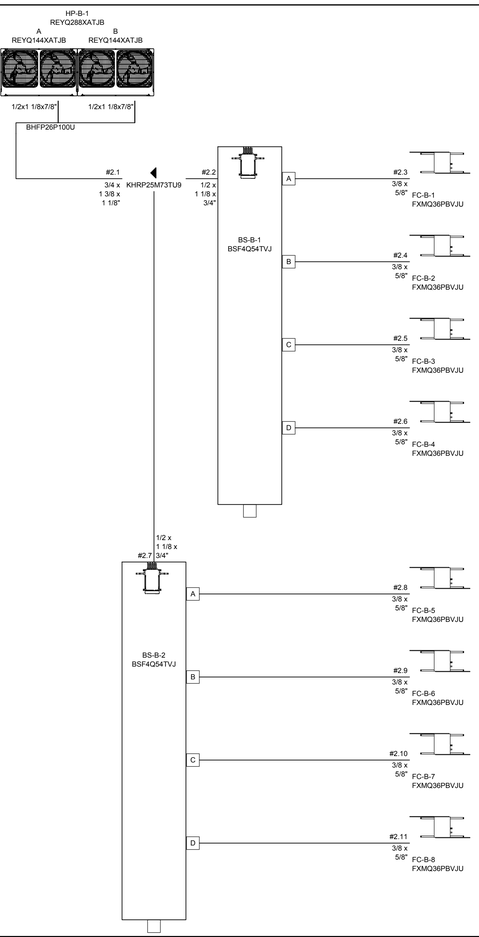
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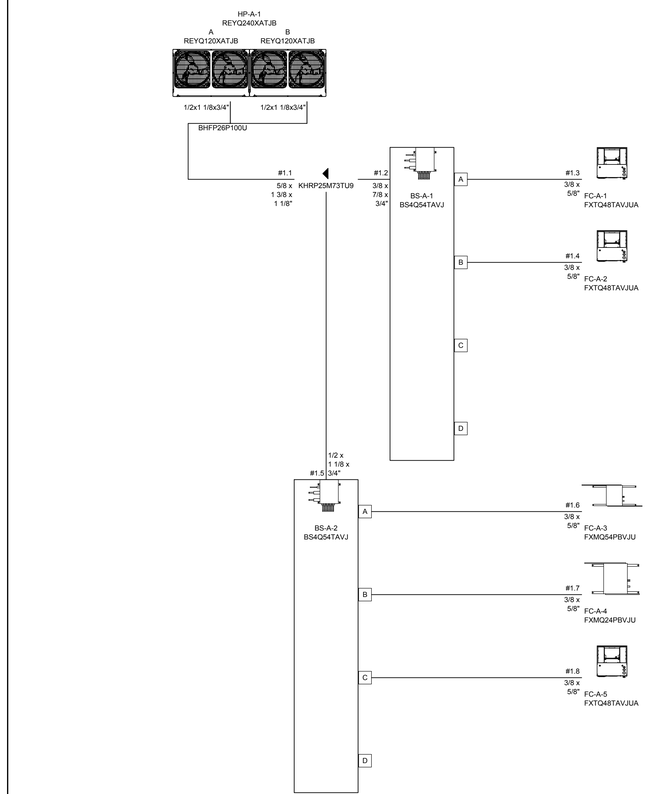

WIRING SCHEMATICS HP-A-1 | NTS | 3




CONTROLLER WIRING SCHEMATICS | NTS | 1




PIPING SCHEMATIC HP-B-1 | NTS | 4




PIPING SCHEMATIC HP-A-1 | NTS | 2

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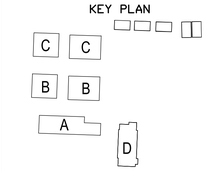
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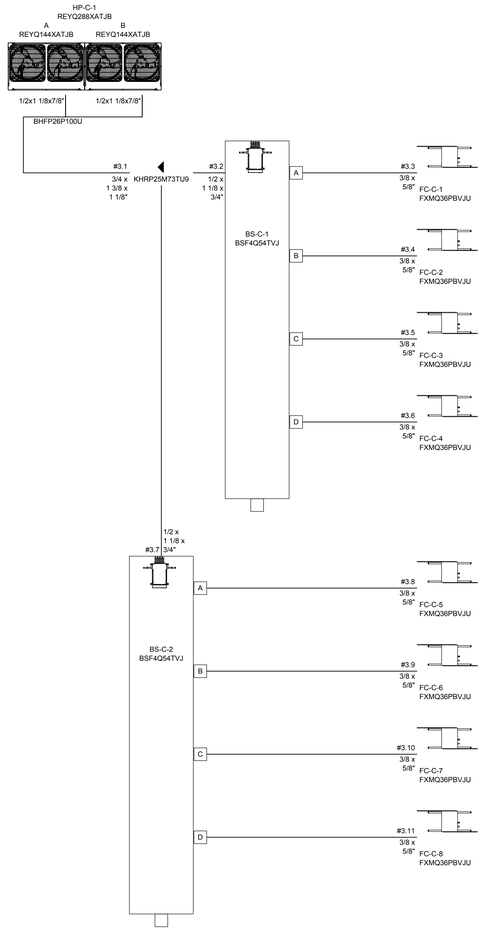

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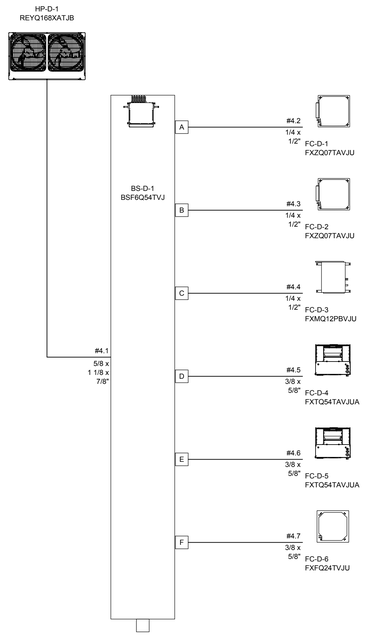
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MECHANICAL PIPING AND WIRING DIAGRAMS

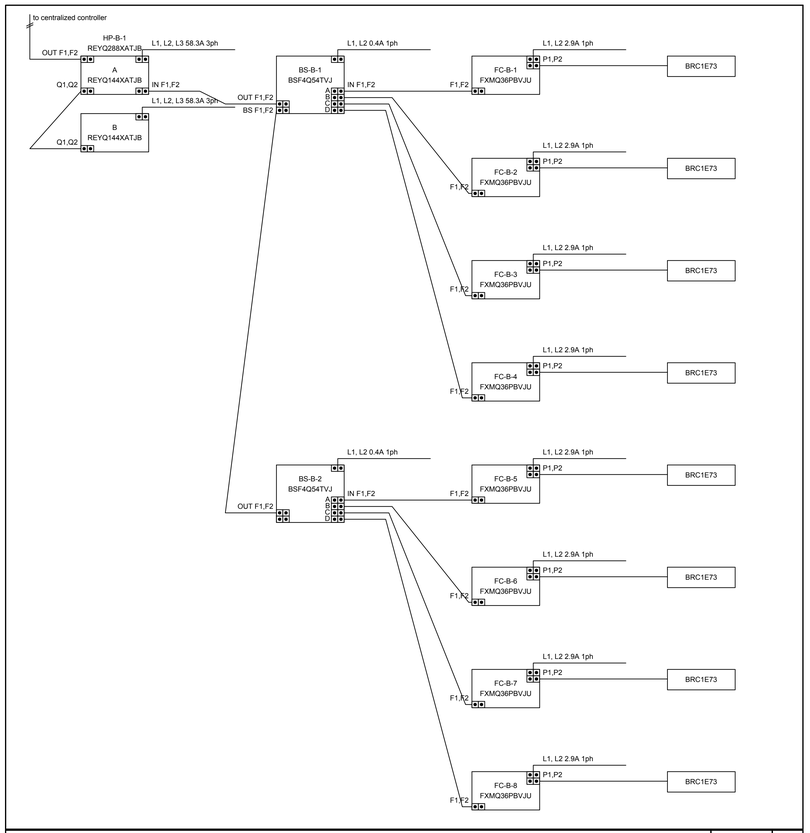
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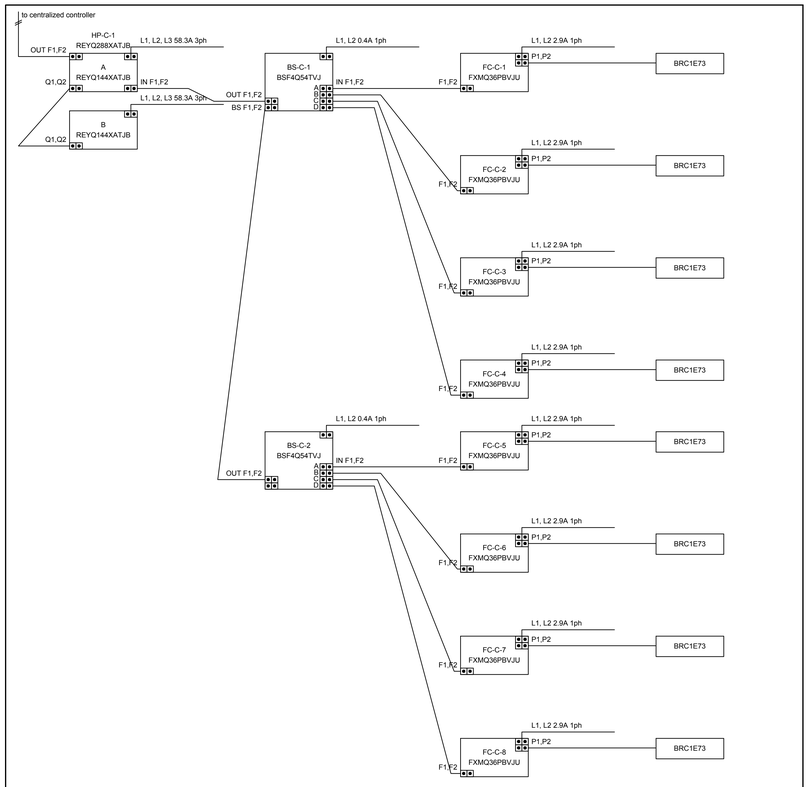

PIPING SCHEMATIC HP-C-1 | NTS | 3




PIPING SCHEMATICS HP-D-1 | NTS | 4




WIRING SCHEMATICS HP-B-1 | NTS | 1




WIRING SCHEMATICS HP-C-1 | NTS | 2

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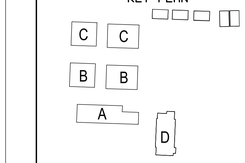
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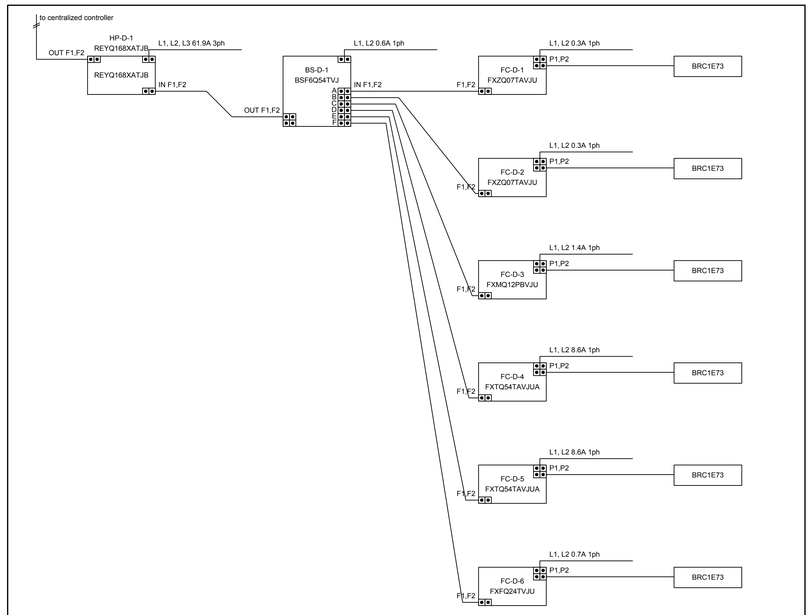

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# MECHANICAL PIPING AND WIRING DIAGRAMS

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WIRING SCHEMATICS HP-D-1 | NTS | 1

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

MECHANICAL PIPING AND WIRING DIAGRAMS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | M5.14 |
| Drawn / Checked | |
| KT / CD | |

## EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7–16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

## PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7–16 SECTION 13.3 AS DEFINED IN ASCE 7–16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

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

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

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

## PLUMBING LEGEND

| SYMBOL | ITEM | ABBR. |
|---|---|---|
| S-1 | FIXTURE DESIGNATION<br>UNIT ABBREVIATION<br>NUMBER | |
| P-1 | DETAIL DESIGNATION<br>DETAIL NUMBER<br>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 |
| | TRAP PRIMER | TP |
| | TYPICAL | (TYP) |
| | VENT THRU ROOF | VTR |
| | UNDERGROUND | UG |
| | UNDER FLOOR | UF |
| | ABOVE CEILING | AB.C. |
| | TO ABOVE/BELOW | TA/TB |
| | FROM ABOVE/BELOW | FA/FB |
| | CONTINUATION | CONT. |
| | NEW | (N) |
| | EXISTING | (E) |
| | POINT OF DIS/CONNECTION | POD/POC |

## PLUMBING SPECIFICATIONS

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

## PLUMBING SHEET INDEX


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


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| ARCHITECT | ENGINEER |
|---|---|
| LICENSED ARCHITECT BRYAN P. WHITTEMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA | REGISTERED PROFESSIONAL ENGINEER ADRIAN ENNIS M 41413 REN. 03–31–25 MECHANICAL STATE OF CALIFORNIA |

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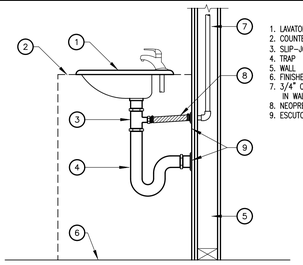

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CONSTRUCTION DOCUMENTS

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# PLUMBING SPECIFICATIONS, LEGEND, AND NOTES

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | P0.01 |
| Drawn / Checked | |
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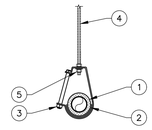



1. LAVATORY OR SINK
2. COUNTER
3. SLIP-JOINT FITTING
4. TRAP
5. WALL
6. FINISHED FLOOR
7. 3/4" CONDENSATE DRAIN IN WALL.
8. NEOPRENE HOSE & CLAMPS
9. ESCUTCHEON PLATE

P*CD02A

CONDENSATE TO TAILPIECE DETAIL | NTS | 5

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

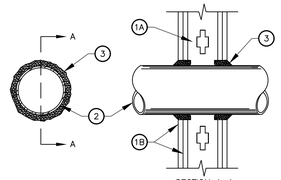



NON-SEISMIC SUPPORT

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

PIPE HANGER DETAIL | NTS | 1

SYSTEM NO.W-L-1001
JUNE 15, 2005
F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT




SECTION A-A

1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* - NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN. (660 MM).
2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (0 MM) (POINT CONTACT) TO MAX 2 IN. (51 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
   A. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
   C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING
   D. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
   E. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. FILL,VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8, 1-1/4,1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL.
   THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE.
   THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

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

+WHEN COPPER PIPE IS USED, T RATING IS 0 HR.

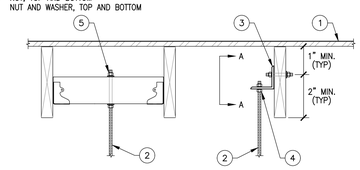
3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT,

*BEARING THE UL CLASSIFICATION MARKING

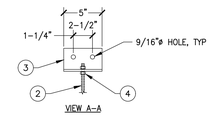
P*CD07A

TYPICAL PIPE FIRE PENETRATION (STUD WALL) | NTS | 6

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

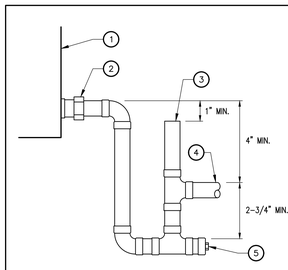



BETWEEN FRAMING MEMBERS AT FRAMING MEMBERS




VIEW A-A

PIPE HANGER DETAIL | NTS | 2




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

CONDENSATE CONNECTION DETAIL | NTS | 3

P*SA01A

NOT IN USED | NTS | 4

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| LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA | REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-25 MECHANICAL STATE OF CALIFORNIA |

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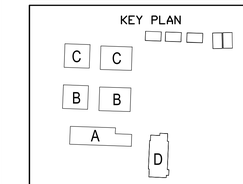
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| ○ CONSTRUCTION | |

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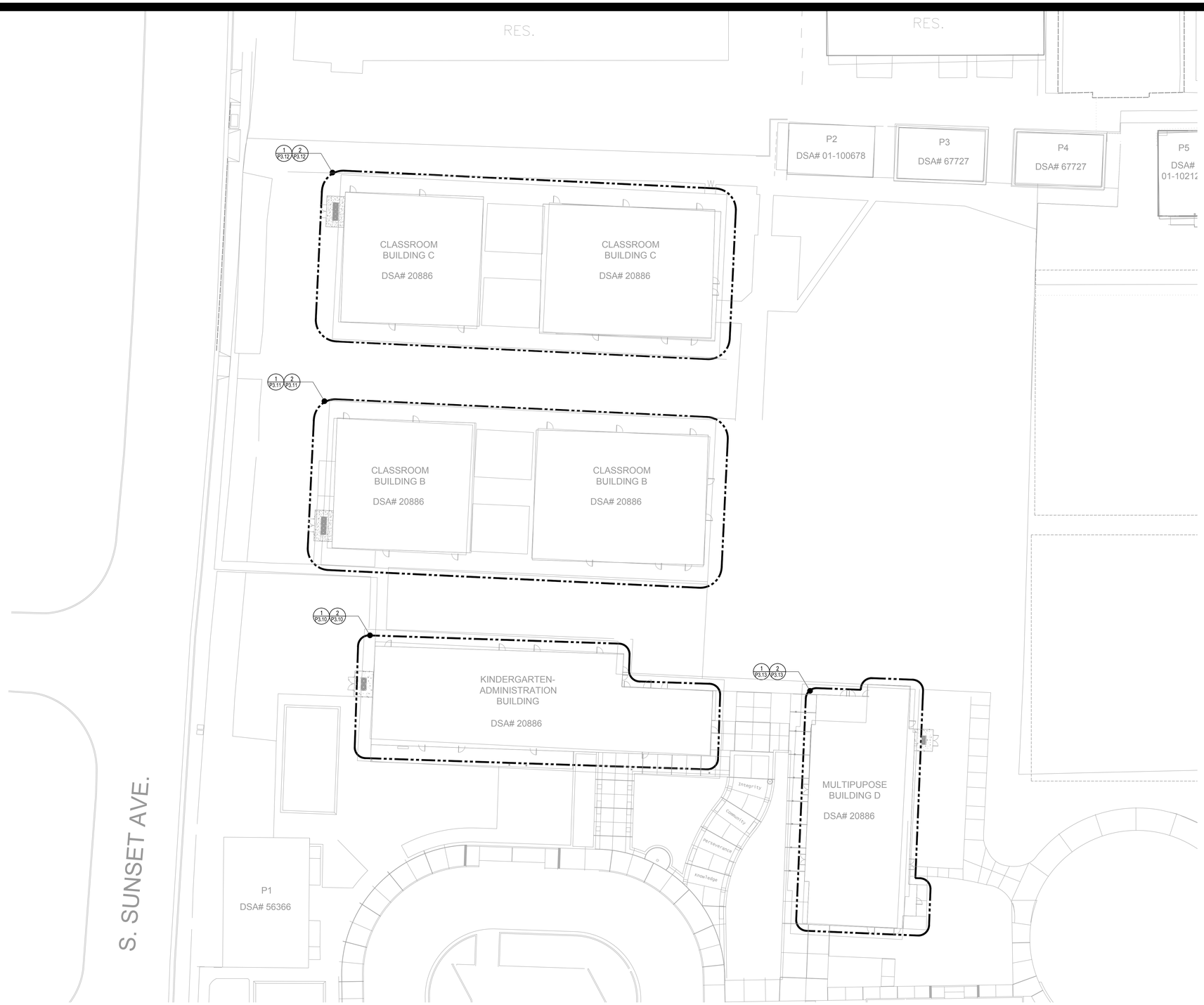

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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

PLUMBING DETAILS

Date 04/24/2023
Project Number 22025
Application Number 01-120630
Drawing Number P0.02
Drawn KT
Checked CD




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

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| ARCHITECT | ENGINEER |
|---|---|
| LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA | REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-25 MECHANICAL STATE OF CALIFORNIA |

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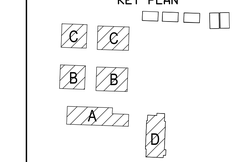
REVISION HISTORY

| NO. | REMARKS | DATE |
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DRAWING STATUS

| | DATE |
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| ○ DSA PLAN CHECK | 12/23/2022 |
| ● DSA BACK CHECK | 04/24/2023 |
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KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
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CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

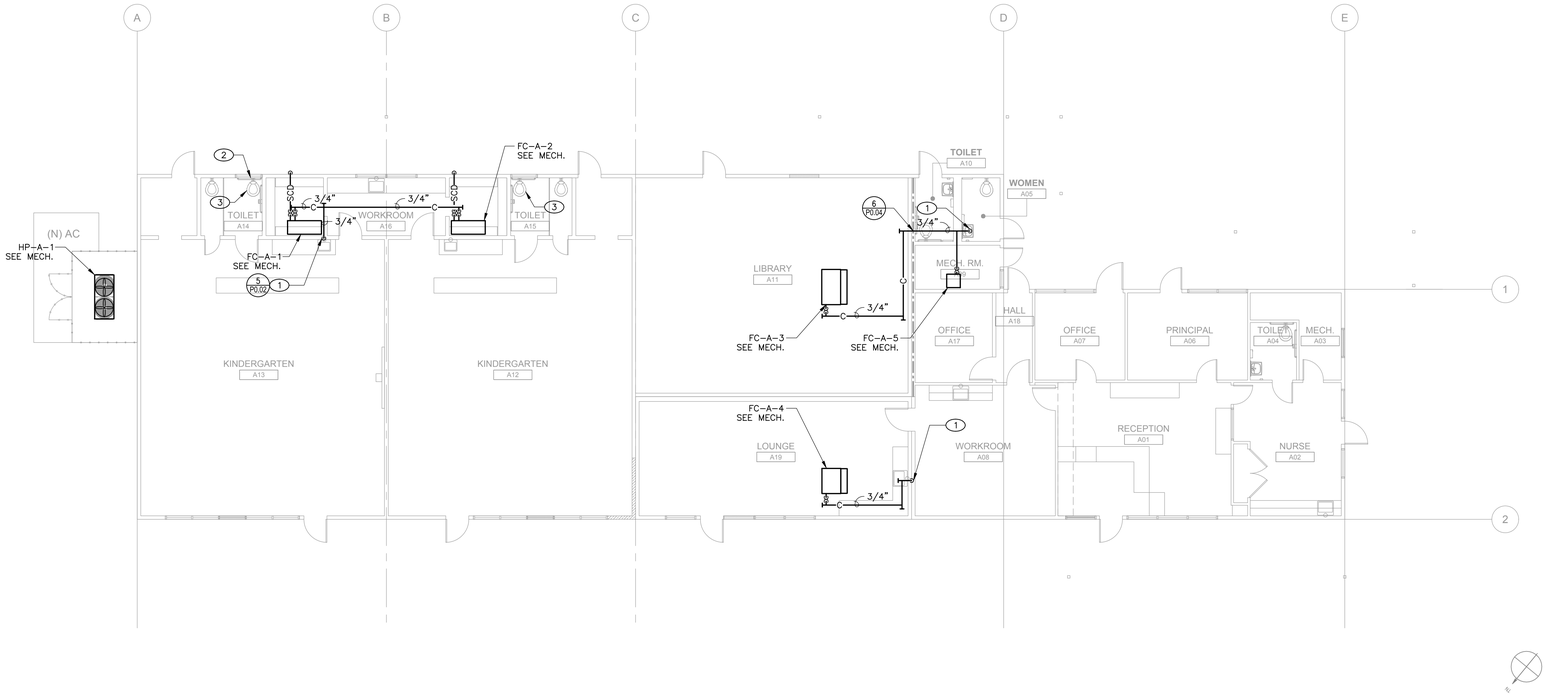
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

PLUMBING SITE PLAN

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | P1.00 |
| Drawn / Checked | |
| KT / CD | |

## KEY NOTES

1. DRAIN CONDENSATE TO EXISTING SINK TAIL PIECE.
2. RELOCATE EXISTING WATER CLOSET AND RECONNECT TO EXISTING PLUMBING 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.

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| ARCHITECT | ENGINEER |
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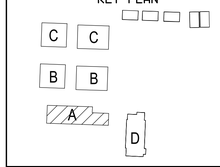
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KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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CONSTRUCTION DOCUMENTS

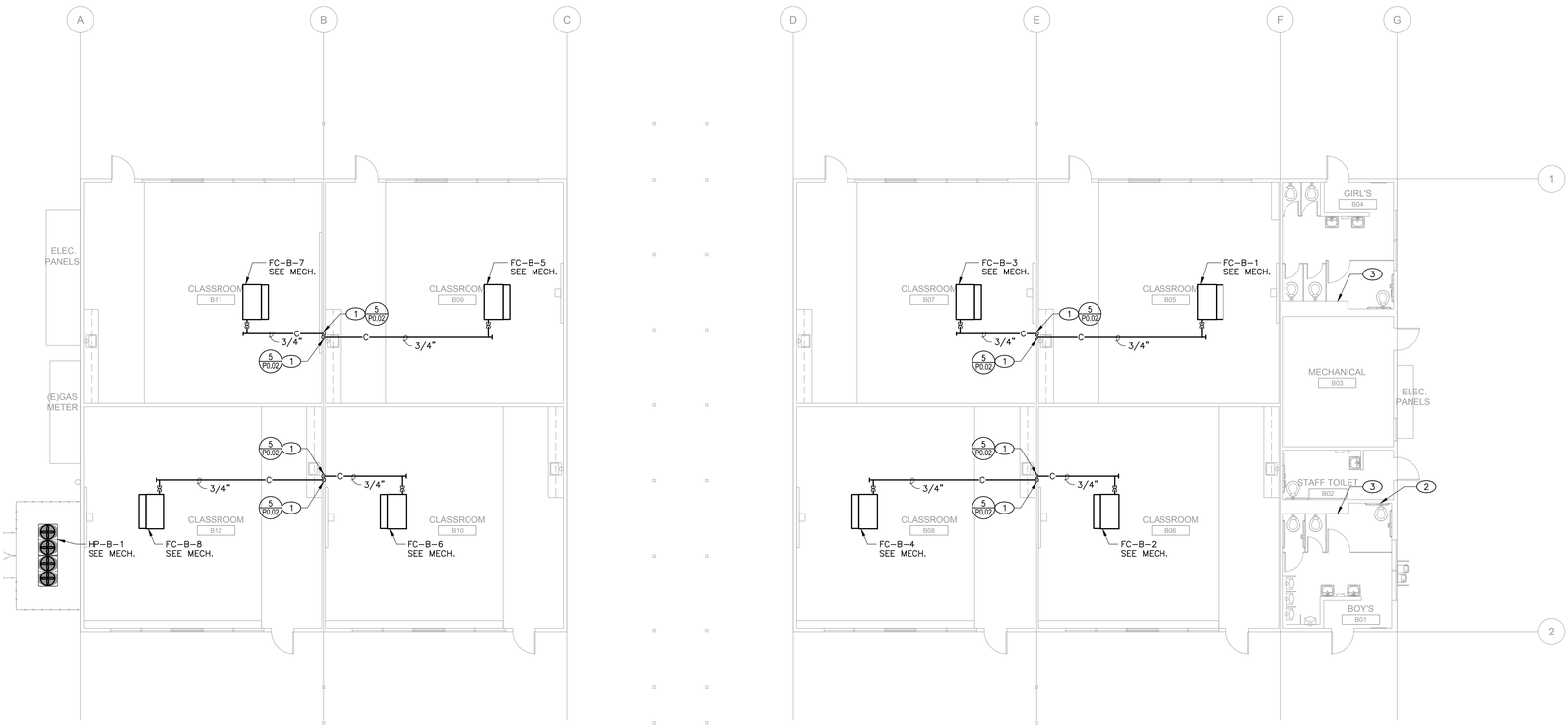
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SAN JOSE, CA 95116

PLUMBING FLOOR PLAN BUILDING A

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | P3.10 |
| Drawn / Checked | |
| KT / CD | |

## KEY NOTES

1. DRAIN CONDENSATE TO EXISTING SINK TAIL PIECE.
2. RELOCATE EXISTING WATER CLOSET AND RECONNECT TO EXISTING PLUMBING CONNECTIONS.
3. DEMO EXISTING WATER CLOSET CAP RELATED PLUMBING INSIDE WALL AND BELOW FLOOR.




**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.

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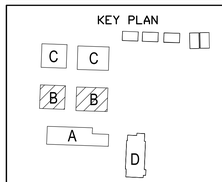
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| ○ CONSTRUCTION | |

KEY PLAN




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

CONSTRUCTION DOCUMENTS

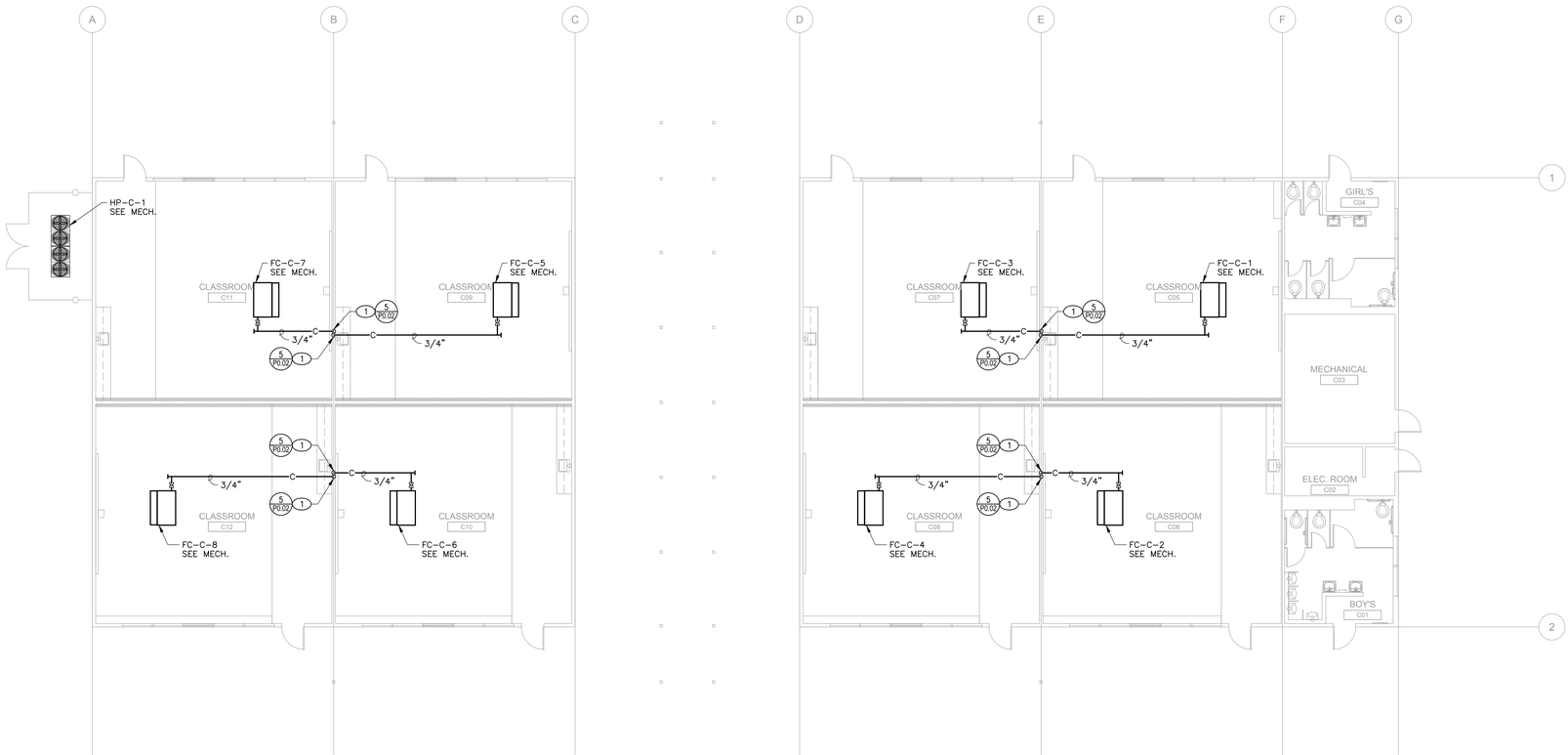
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PLUMBING FLOOR PLAN BUILDING B

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | P3.11 |
| Drawn / Checked | |
| KT / 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.

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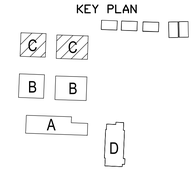
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| ○ CONSTRUCTION | |

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

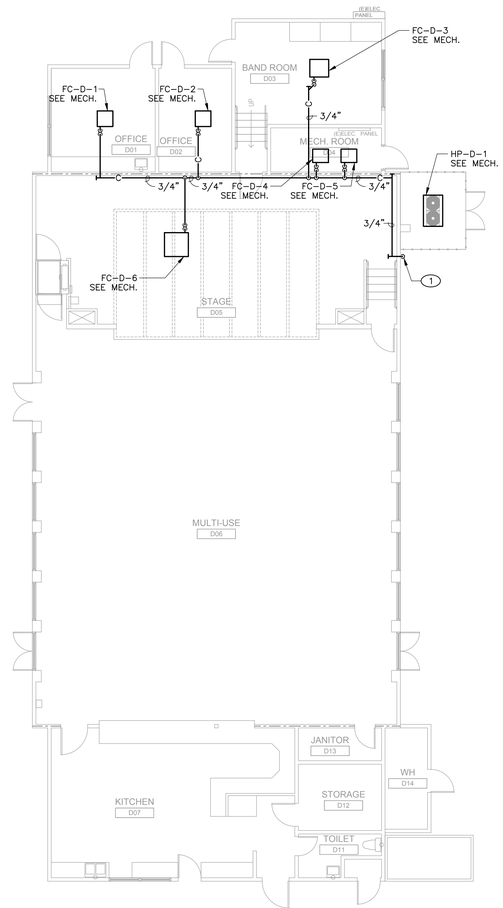
ADELANTE ACADEMY II
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SAN JOSE, CA 95116

PLUMBING FLOOR PLAN BUILDING C

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | P3.12 |
| Drawn KT | Checked CD |

## KEY NOTES

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




**PLUMBING FLOOR PLAN - BUILDING D** | **1** 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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| ARCHITECT | ENGINEER |
|---|---|
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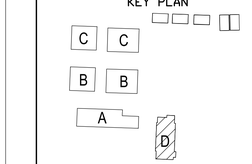
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| ○ CONSTRUCTION | |

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

PLUMBING FLOOR PLAN BUILDING D

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | P3.13 |
| Drawn / Checked | |
| KT / CD | |

## EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7–16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

## PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7–16 SECTION 13.3 AS DEFINED IN ASCE 7–16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

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

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

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

## OCCUPANCY & DAYLIGHTING SENSOR NOTES

1. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS SYSTEMS OPERATION:

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

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

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

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

2. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS COMMISSIONING:

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

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

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

## ELECTRICAL ABBREVIATIONS

| SYMBOL | DESCRIPTIONS |
|---|---|
| AC | ABOVE COUNTER |
| AF | AMPERE FRAME OR FUSE |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER |
| AFF | ABOVE FINISHED FLOOR |
| AFS | AUTOMATIC FIRE SPRINKLER |
| AIC | AMPS INTERRUPTING CAPACITY RATING |
| AMP, A | AMPERES |
| APPR | APPROVED |
| AS | AMPERE SWITCH RATING |
| AT | AMPERE TRIP RATING OF BREAKER |
| AUTO | AUTOMATIC |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAUGE |
| BFC | BELOW FINISHED CEILING |
| BMS | BUILDING MANAGEMENT SYSTEM |
| BKR | BREAKER |
| C | CONDUIT |
| cd | CANDELA |
| CEC | CALIFORNIA ELECTRICAL CODE |
| CFL | COMPACT FLUORESCENT |
| CFCI | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED |
| CKT | CIRCUIT |
| CNTRL | CONTROL |
| CO | CONDUIT ONLY w/PULL STRING |
| CSFM | CALIFORNIA STATE FIRE MARSHALL |
| CT | CURRENT TRANSFORMER |
| CU | COPPER |
| CWP | COLD WATER PIPE |
| DEF | DEFROST |
| DISC | DISCONNECT |
| DIST | DISTRIBUTION |
| DWG | DRAWING |
| EC | ELECTRICAL CONTRACTOR |
| EDF | ELECTRIC DRINKING FOUNTAIN |
| EL | EVENING LIGHT |
| ELEV | ELEVATION |
| EM | EMERGENCY LIGHT |
| EMERG | EMERGENCY |
| EMT | ELECTRICAL METALLIC TUBING |
| EOL | END OF LINE RESISTOR |
| EP | EMERGENCY POWER |
| EQPT | EQUIPMENT |
| EXH | EXHAUST |
| (E) | EXISTING |
| (ED) | EXISTING TO BE DEMOLISHED |
| (F) | FUTURE |
| FAA | FIRE ALARM ANNUNCIATOR |
| FACP | FIRE ALARM CONTROL PANEL |
| FF | FINISHED FLOOR |
| FG | FINISHED GRADE |
| FLA | FULL LOAD AMPS |
| FLEX | FLEXIBLE |
| FLUOR | FLUORESCENT |
| GFCI | GROUND FAULT CURRENT INTERRUPTER |
| GND | GROUND |
| HP | HORSE POWER |
| HZ | HERTZ |
| IG | ISOLATED GROUND |
| INC | INCANDESCENT |
| ISC | SHORT CIRCUIT CURRENT |
| ISOL | ISOLATED |
| JBOX | JUNCTION BOX |
| kcmil | THOUSAND CIRCULAR MILS |
| kV | KILOVOLTS |
| kW | KILOWATTS |
| kVA | KILOVOLT AMPERES |
| 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 |
|---|---|
| E0.01 | ELECTRICAL NOTES & ABBREVIATIONS |
| E0.02 | ELECTRICAL SYMBOL LEGEND |
| E1.00 | ELECTRICAL SITE PLAN |
| E2.10 | ELECTRICAL LIGHTING PLANS – BUILDING A |
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| E3.10 | ELECTRICAL POWER PLAN – BUILDING A |
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| E5.12 | ELECTRICAL DETAILS |

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


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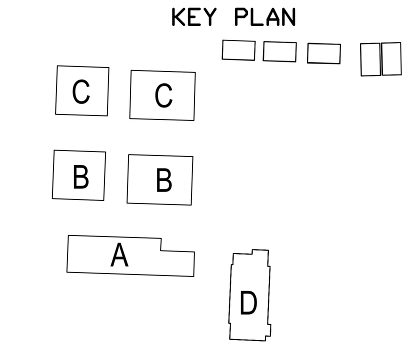

REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

# ELECTRICAL NOTES & ABBREVIATIONS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number 01-120630 | Drawing Number |
| Drawn KT / Checked CD | E0.01 |

# 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 @ +48" TO TOP OF BOX, UNO. |
| 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' XX-Xx CIRCUIT NUMBER; PANEL 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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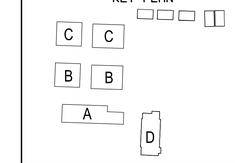
REVISION HISTORY

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KEY PLAN



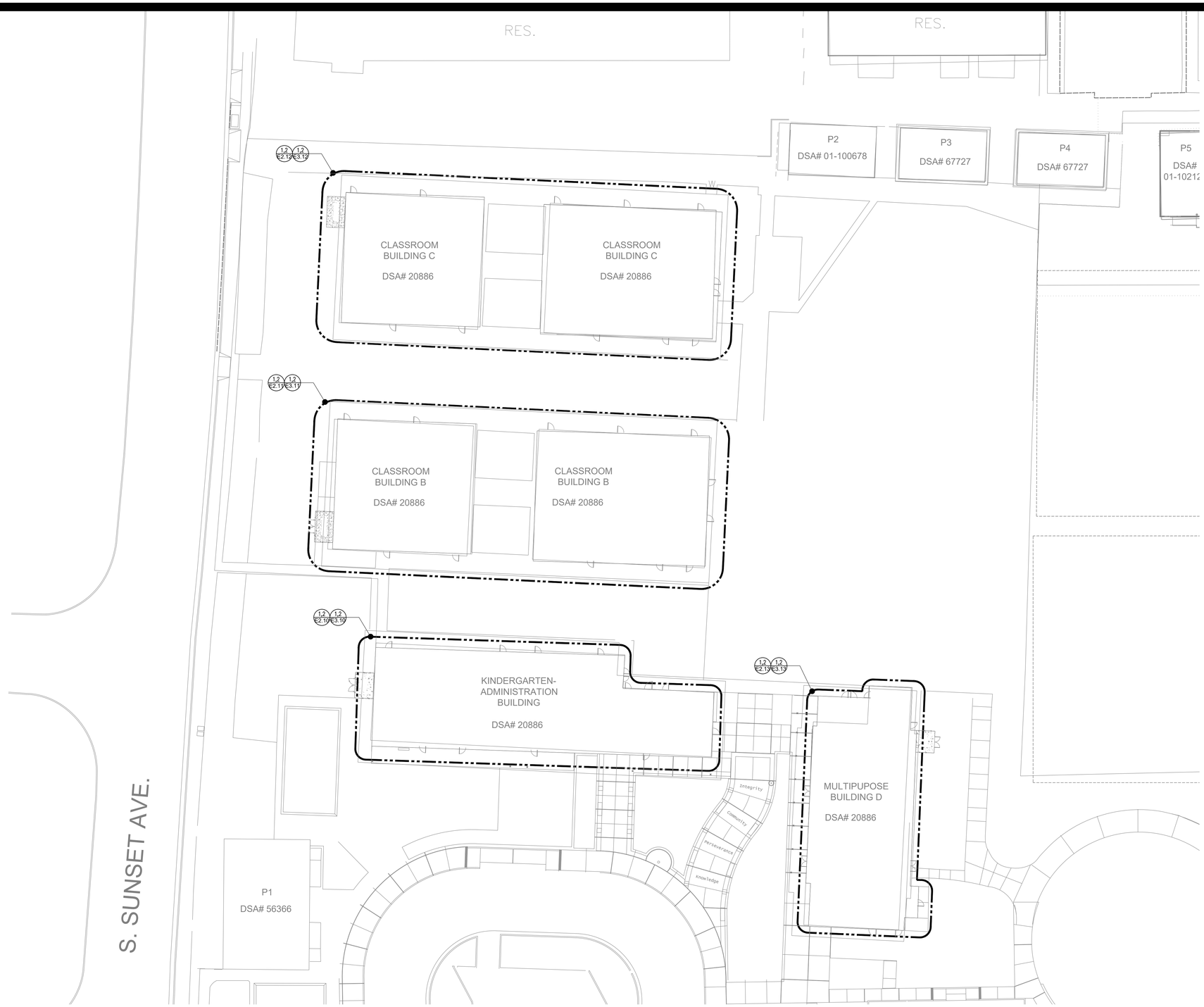

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CONSTRUCTION DOCUMENTS

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ELECTRICAL SYMBOL LEGEND

| | |
|---|---|
| Date | Project Number |
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | E0.02 |
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**ELECTRICAL SITE PLAN** 1
1" = 20'

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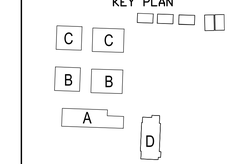
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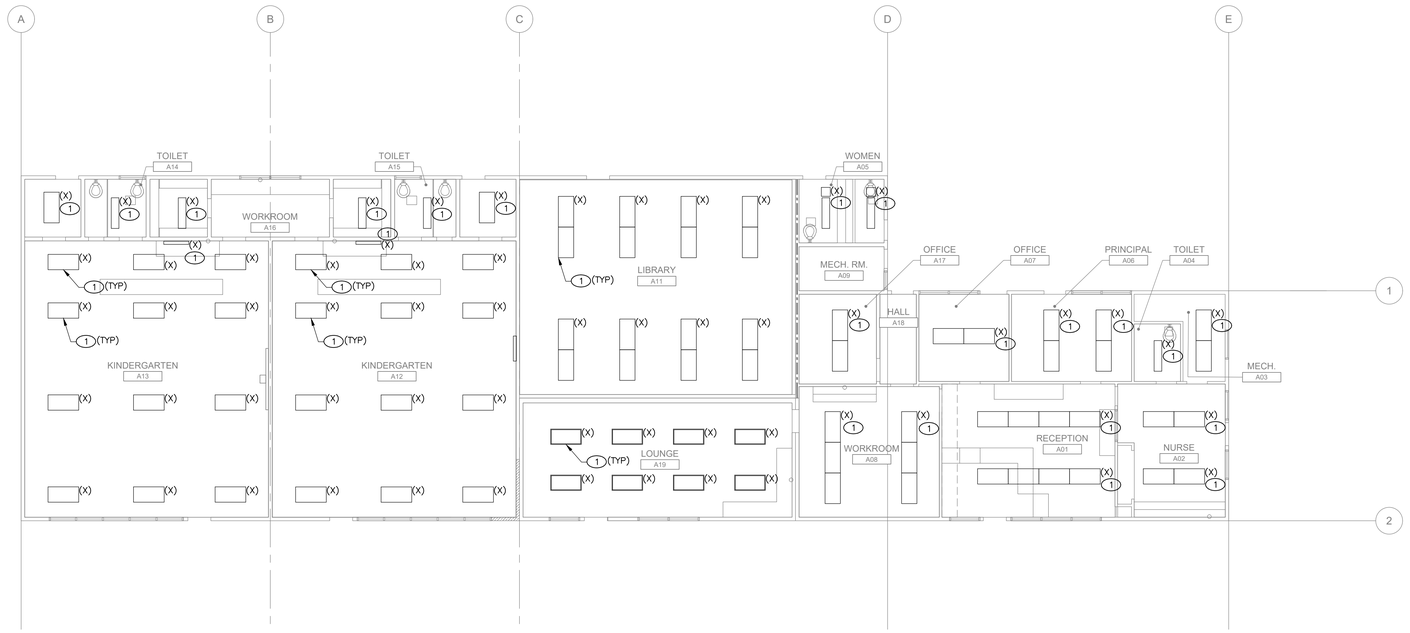

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ELECTRICAL SITE PLAN

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| Application Number | Drawing Number |
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## 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, UNLESS NOTED OTHERWISE. RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO NEW INVERTER UN-SWITCHED CIRCUIT IN THE AREA.
2. 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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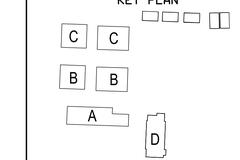
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KEY PLAN




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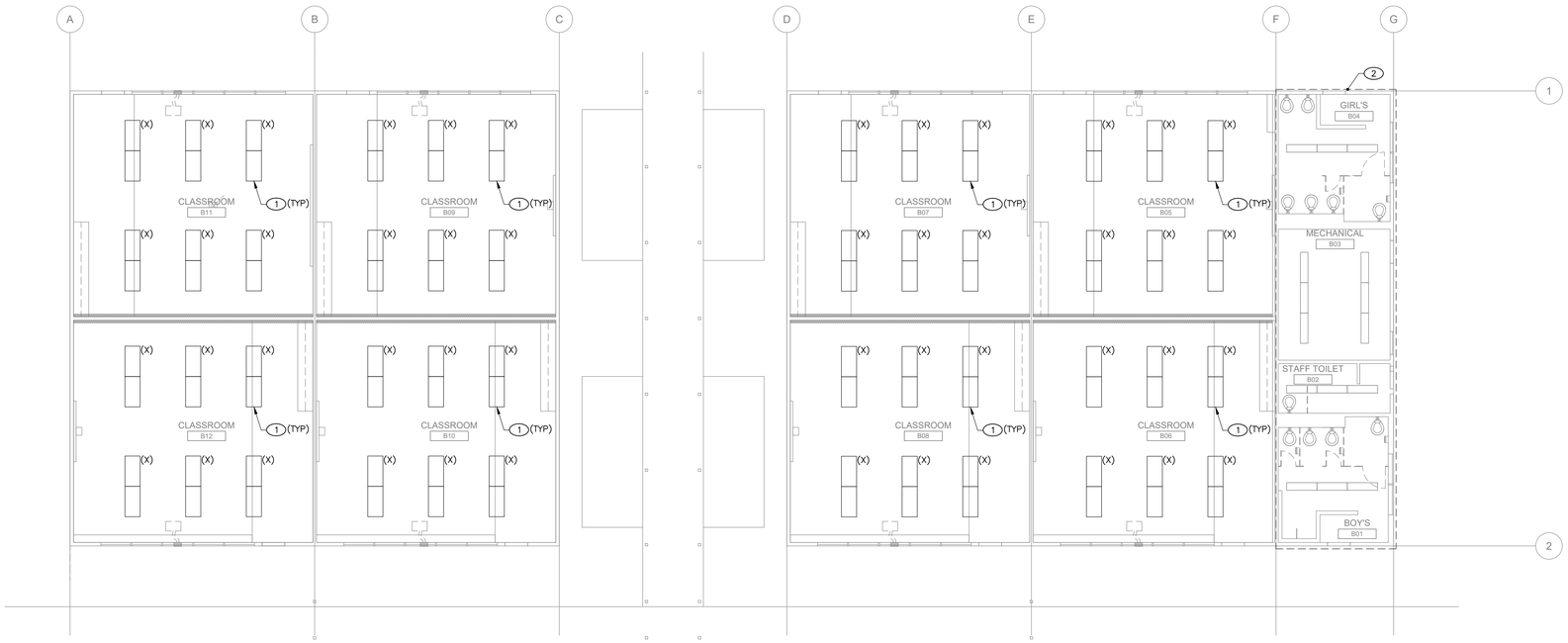
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# ELECTRICAL LIGHTING PLANS - BUILDING A

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| Application Number | Drawing Number |
| 01-120630 | E2.10 |
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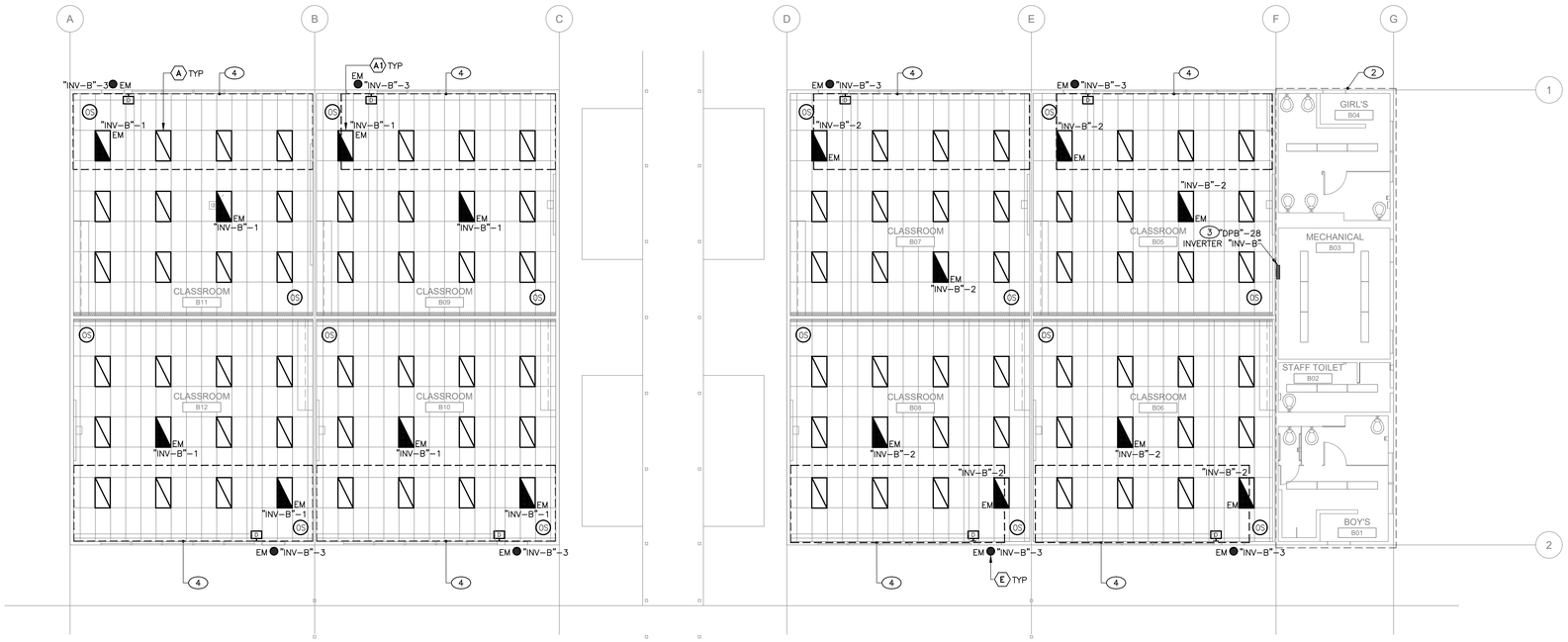



## DEMO LIGHTING PLAN - BUILDING B

1 1/8" = 1'-0"

## KEY NOTES

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




## NEW LIGHTING PLAN - BUILDING B

2 1/8" = 1'-0"

## GENERAL NOTES

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

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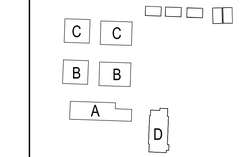
REVISION HISTORY

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| ○ CONSTRUCTION | |

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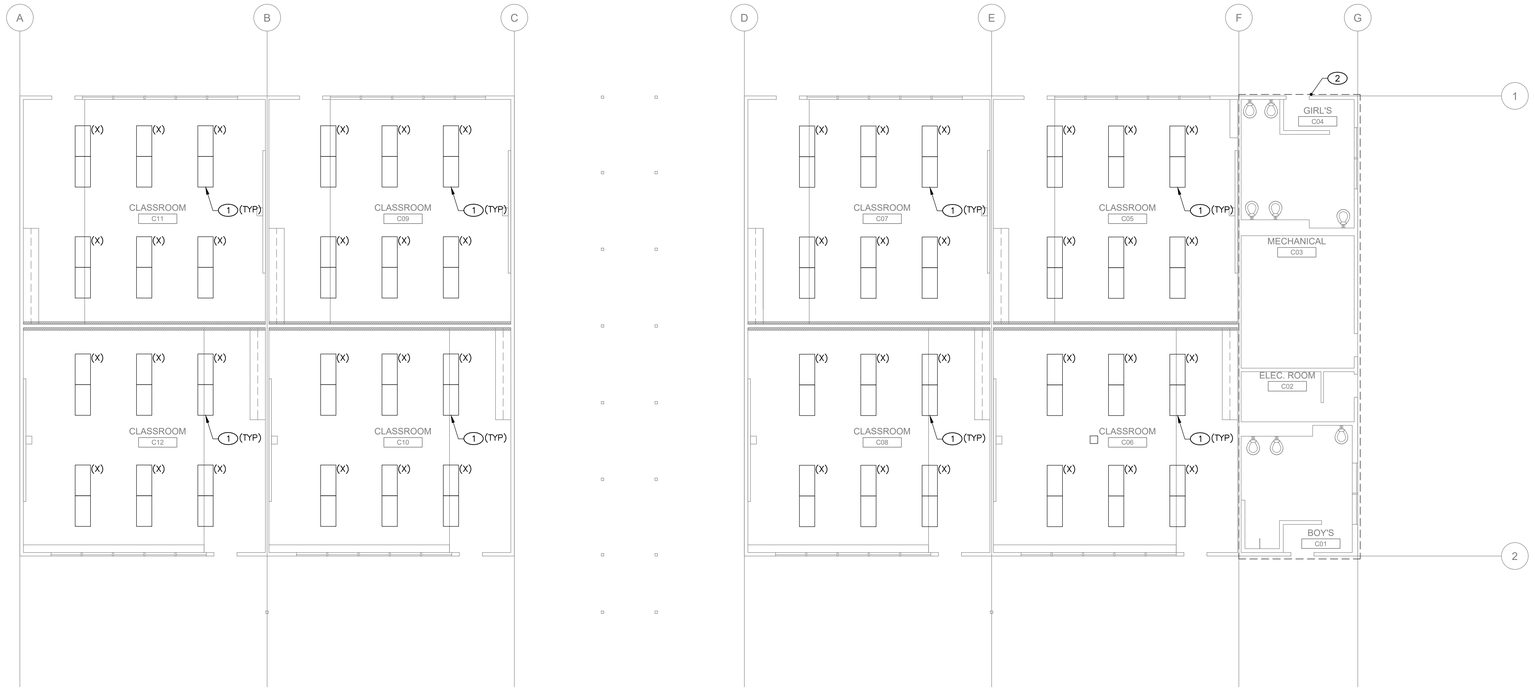

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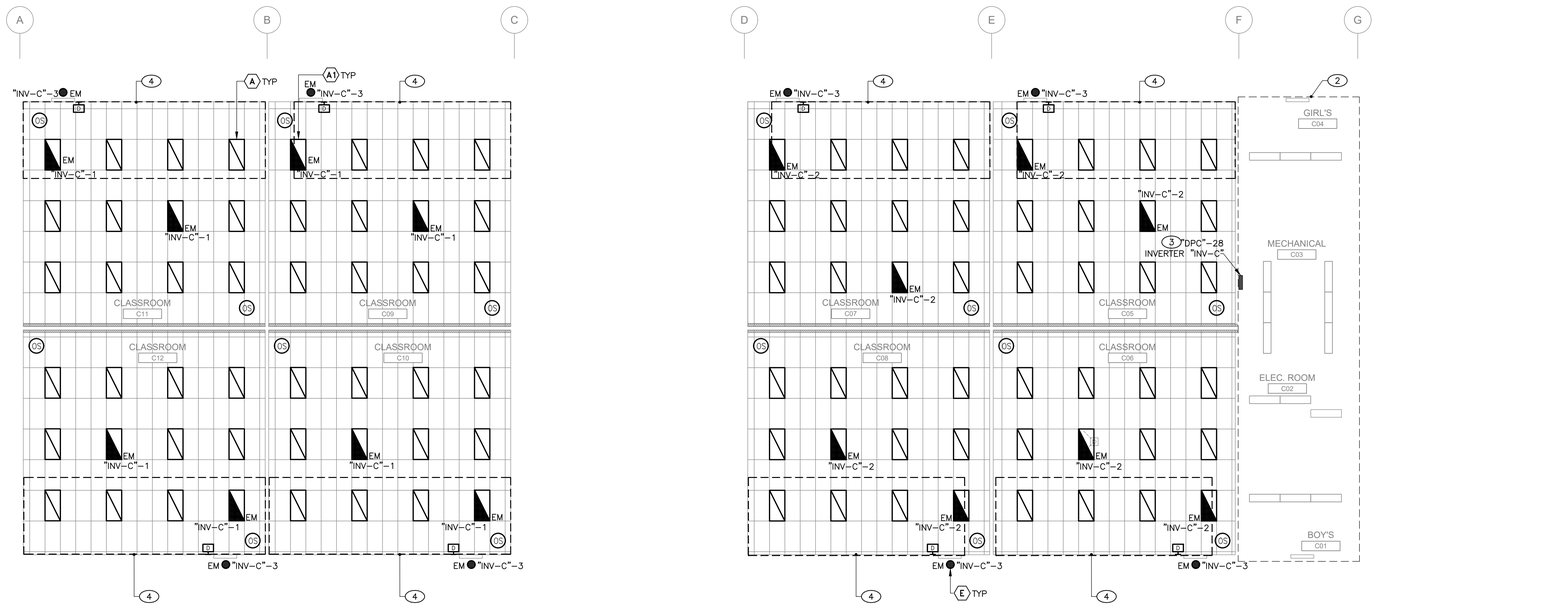
# ELECTRICAL LIGHTING PLANS - BUILDING B

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | E2.11 |
| Drawn KT | Checked CD |




## DEMO LIGHTING PLAN - BUILDING C | 1

1/8" = 1'-0"




## NEW LIGHTING PLAN - BUILDING C | 2

1/8" = 1'-0"

## KEY NOTES

1. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AND CONTROLS FOR INSTALLATION OF NEW FIXTURE/CONTROLS AS SHOWN AT NEW CEILING AREA, UNLESS NOTED OTHERWISE. RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO NEW INVERTER UN–SWITCHED CIRCUIT IN THE AREA.
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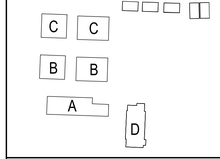
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| ○ DSA PLAN CHECK | 12/23/2022 |
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| ○ CONSTRUCTION | |

KEY PLAN



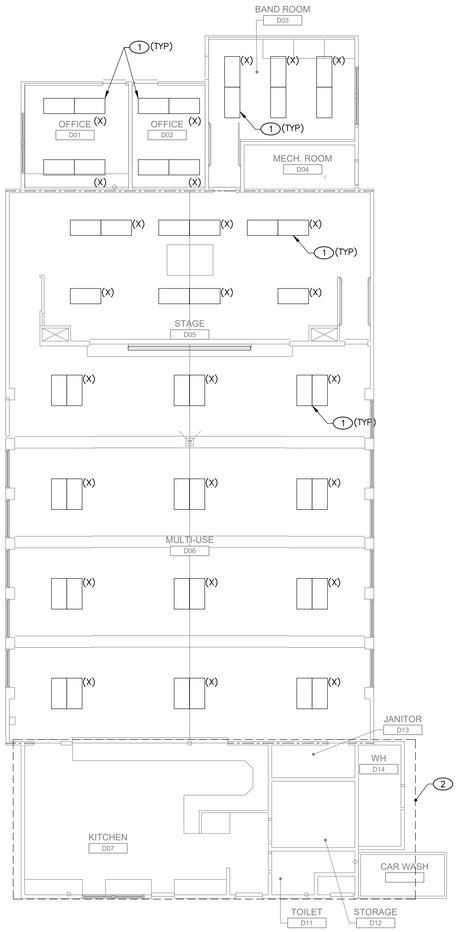

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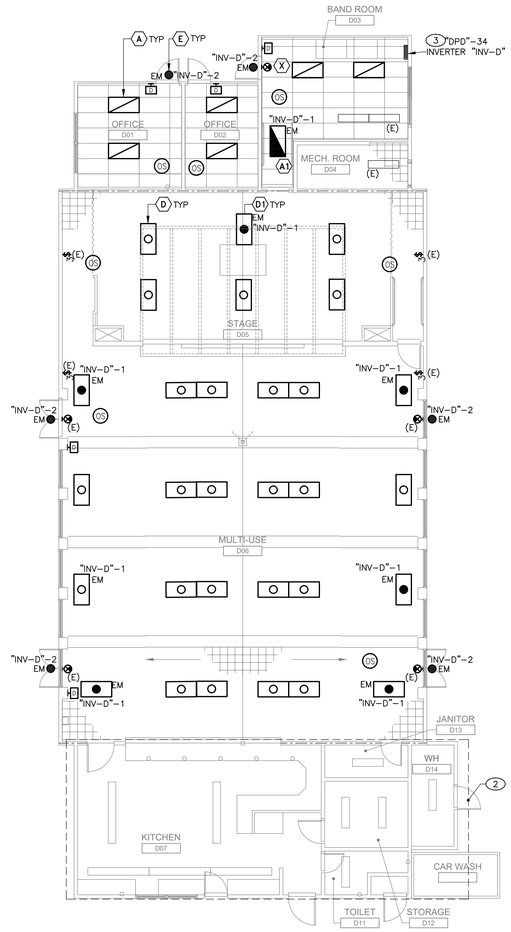
# ELECTRICAL LIGHTING PLANS - BUILDING C

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | E2.12 |
| Drawn / Checked | |
| 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, UNLESS NOTED OTHERWISE. RETAIN AND MODIFY EXISTING CIRCUITRY FOR RECONNECTION OF NEW FIXTURES WITH SWITCHING ZONES AS SHOWN. CONNECT EMERGENCY LIGHT AND EXIT SIGN TO NEW INVERTER UN-SWITCHED CIRCUIT IN THE AREA.
2. 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.

## GENERAL NOTES

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

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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 RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA |

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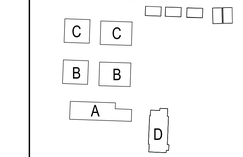
REVISION HISTORY

| NO. | REMARKS | DATE |
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DRAWING STATUS

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

KEY PLAN



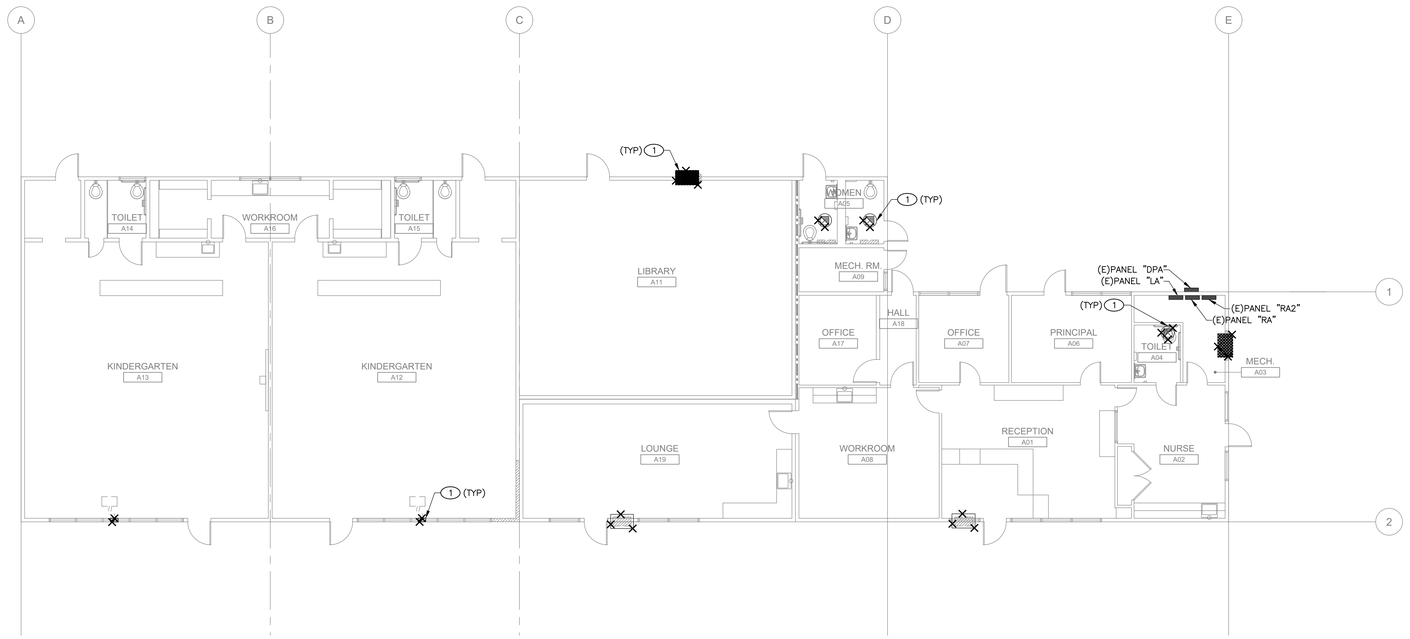

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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

# ELECTRICAL LIGHTING PLANS - BUILDING D

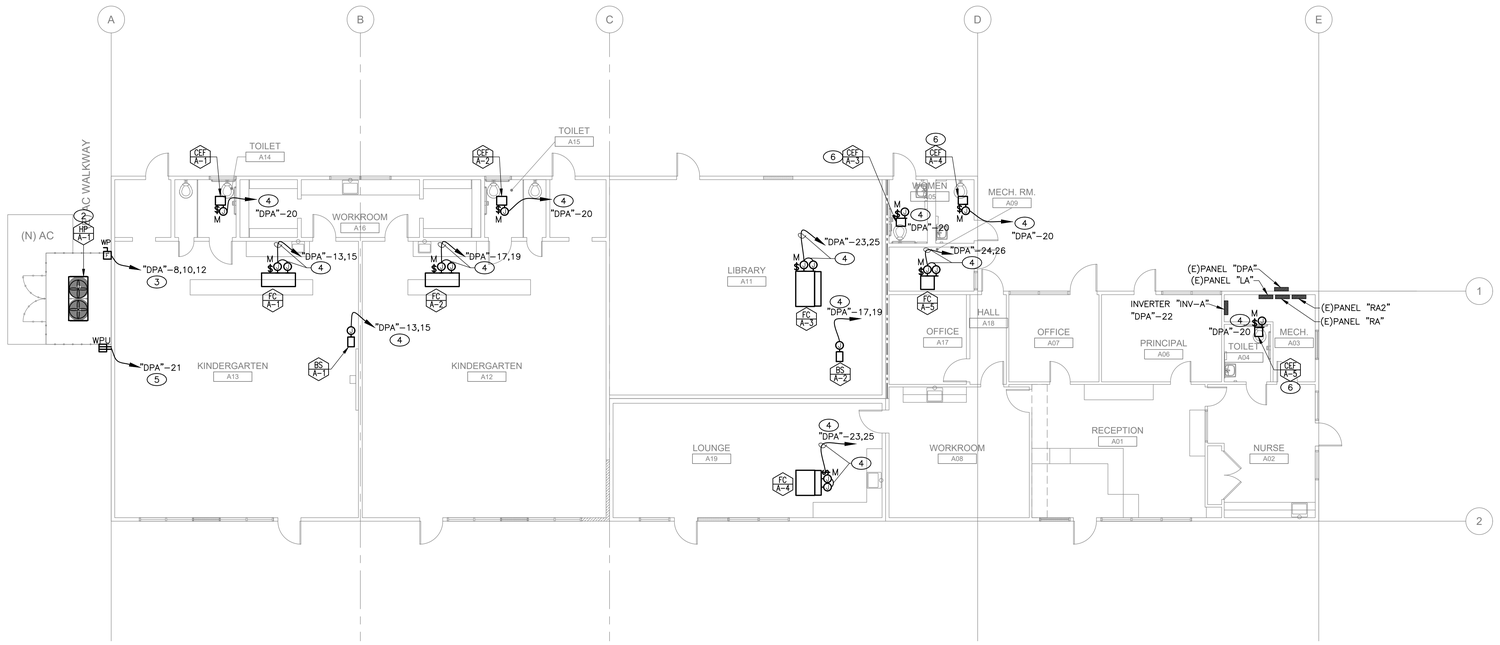
| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | E2.13 |
| Drawn / Checked | |
| KT / CD | |




## DEMO ELECTRICAL POWER PLAN - BUILDING A

**1**

1/8" = 1'-0"




## ELECTRICAL POWER PLAN - BUILDING A

**2**

1/8" = 1'-0"

## KEY NOTES

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

## GENERAL NOTES

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

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

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

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

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

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

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

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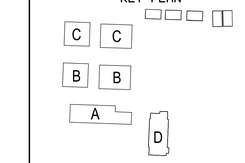
REVISION HISTORY

| NO. | REMARKS | DATE |
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| | DATE |
|---|---|
| ○ DSA PLAN CHECK | 12/23/2022 |
| ● DSA BACK CHECK | 04/24/2023 |
| ○ BIDDING | |
| ○ CONSTRUCTION | |

KEY PLAN



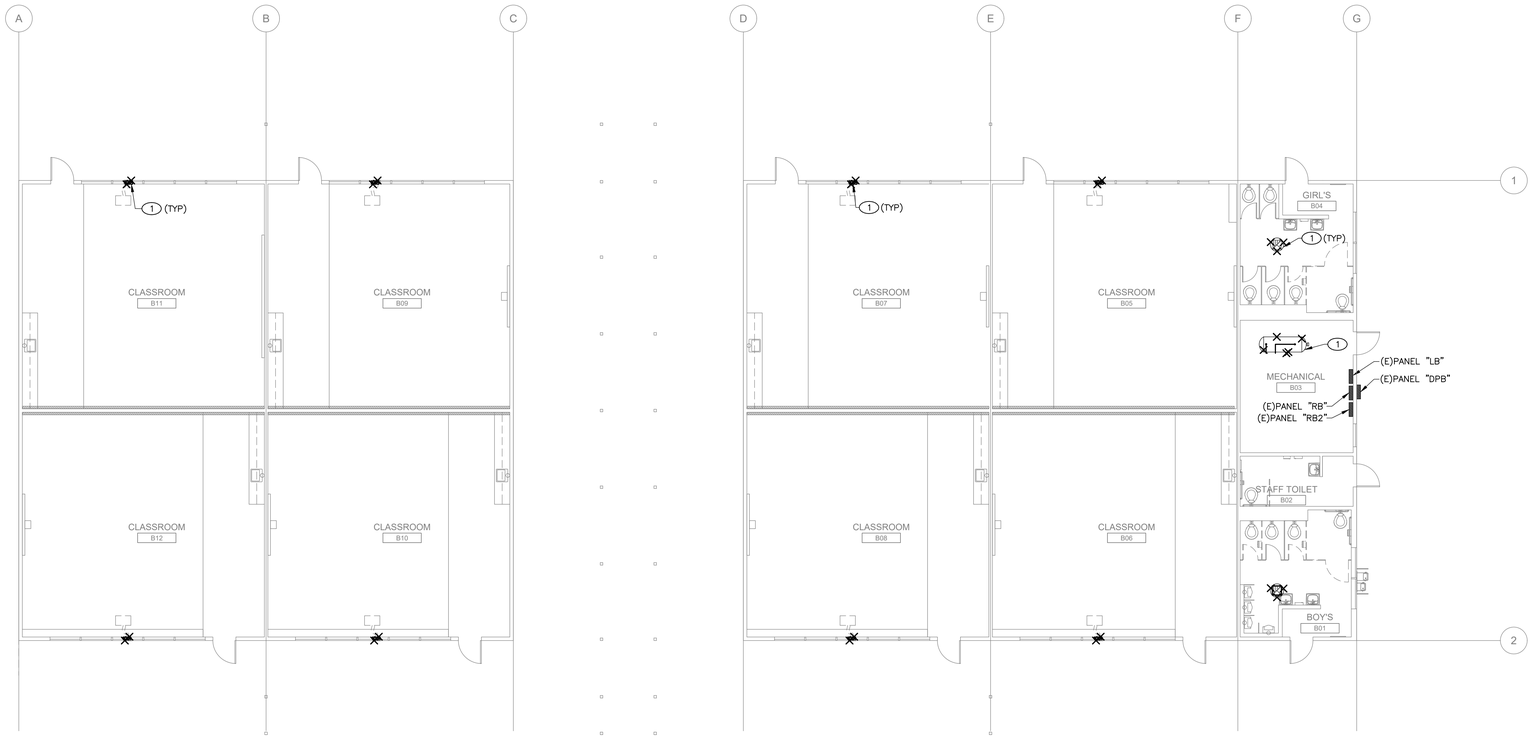

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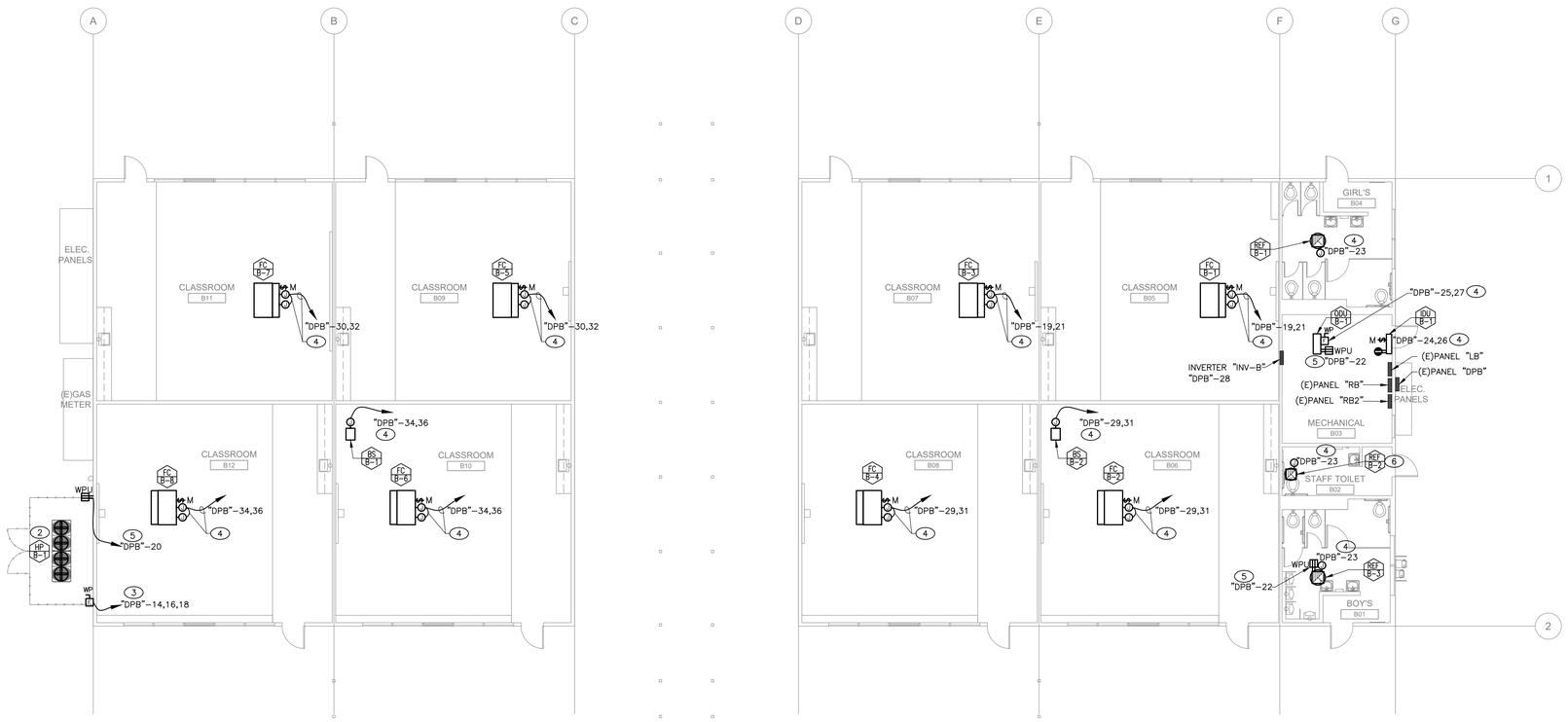
ELECTRICAL POWER PLAN BUILDING A

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | 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"

## 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/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.
6. PROVIDE POWER CONNECTION FOR REF UNIT. INTERLOCK THE UNIT CONTROL WITH LIGHTING CONTROL. PROVIDE PROPER RELAY /POWERPACK DEVICES TO MAKE THE CONTROL INTERLOCKING OPERATIONAL. COORDINATE WITH MECHANICAL DRAWING FOR ADDITIONAL INFORMATION.

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

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

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

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

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

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| ARCHITECT | ENGINEER |
|---|---|
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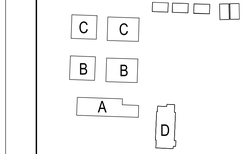
REVISION HISTORY

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DRAWING STATUS

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

KEY PLAN



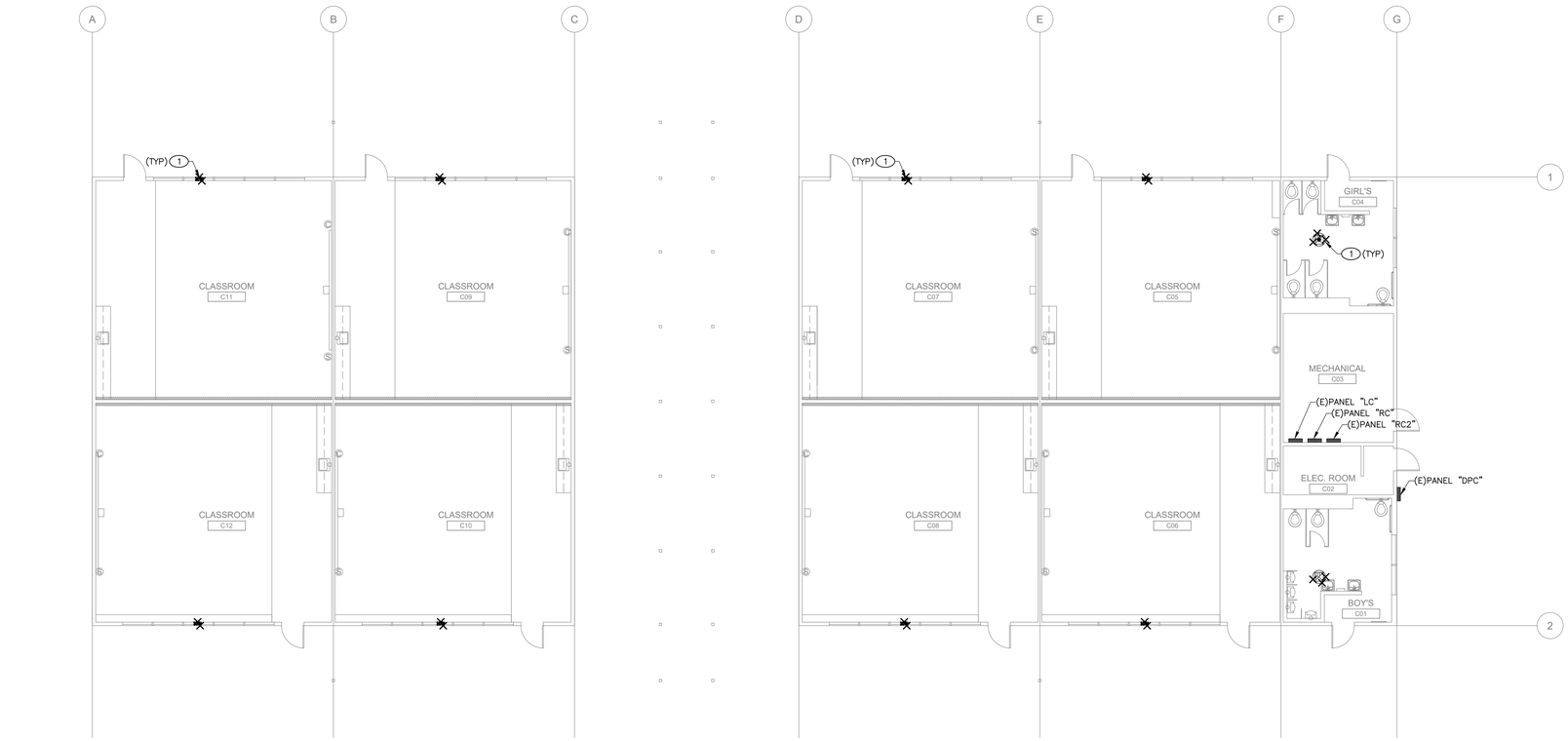

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CONSTRUCTION DOCUMENTS

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ELECTRICAL POWER PLAN BUILDING B

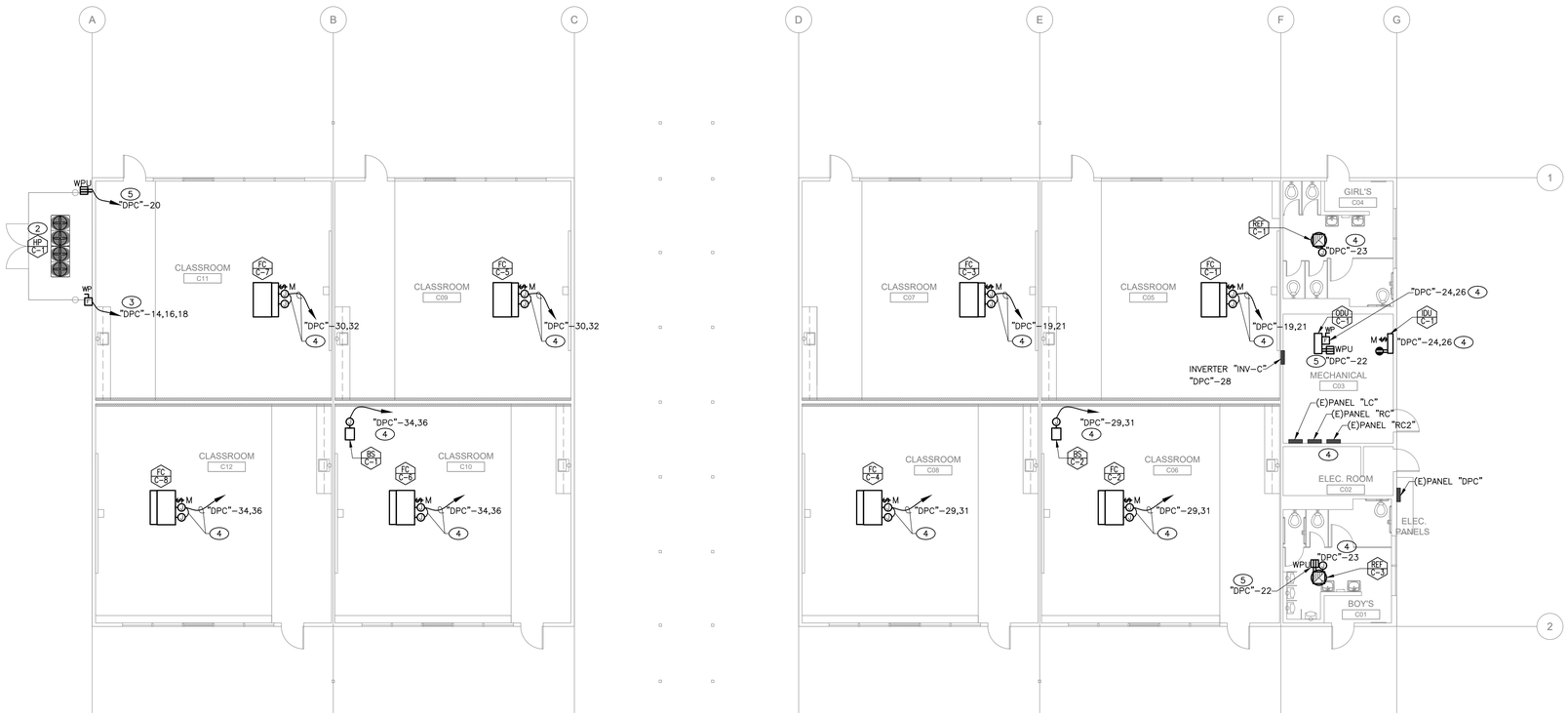
| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | E3.11 |
| Drawn / Checked | |
| KT / CD | |




## DEMO ELECTRICAL POWER PLAN - BUILDING C

1

1/8" = 1'-0"




## ELECTRICAL POWER PLAN - BUILDING C

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

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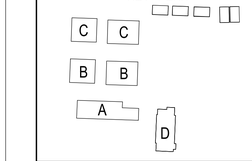
REVISION HISTORY

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

KEY PLAN



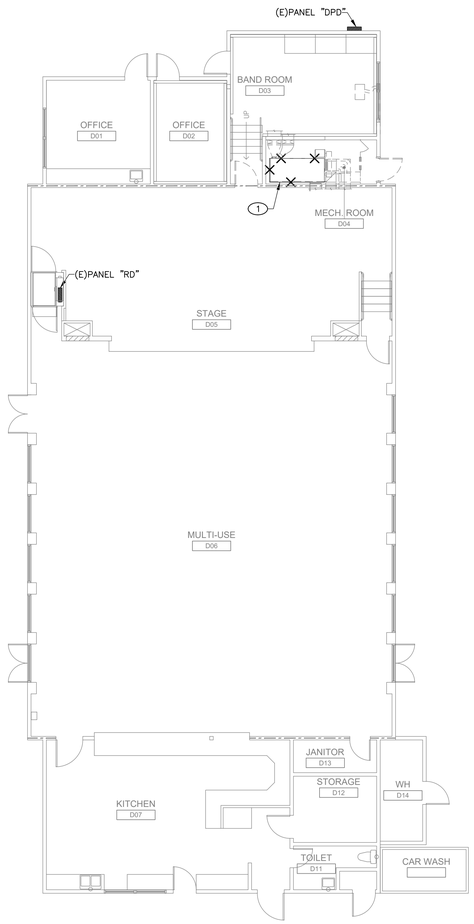

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CONSTRUCTION DOCUMENTS

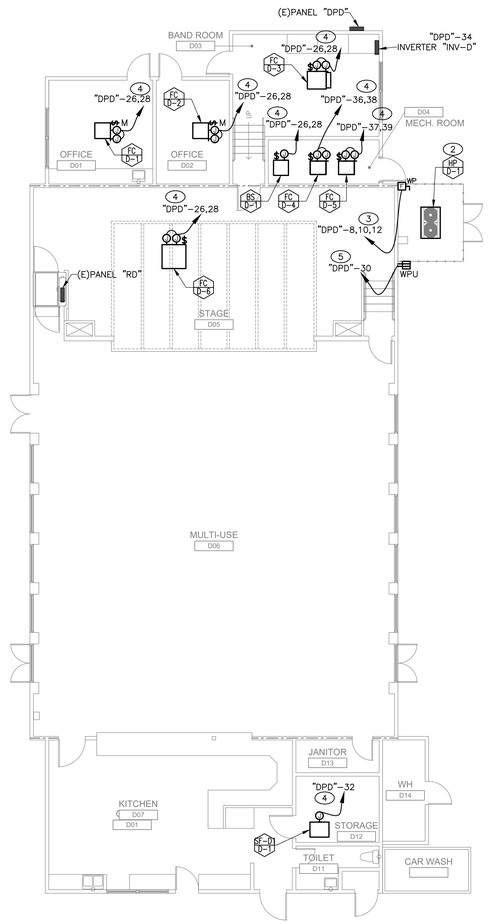
ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

ELECTRICAL POWER PLAN BUILDING C

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | 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"

## KEY NOTES

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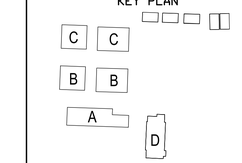
| ARCHITECT | ENGINEER |
|---|---|
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| ○ | DSA PLAN CHECK | 12/23/2022 |
| ● | DSA BACK CHECK | 04/24/2023 |
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| ○ | CONSTRUCTION | |

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

ELECTRICAL POWER PLAN - BUILDING D

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | 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 | - | - | - | 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 | - | - | - | 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 | | **9,184** | **-** | **-** | 16 |
| 17 | [E] 20/1 | (E) SF-C1,2,3 | | | 800 | **-** | **9,184** | **-** | 18 |
| 19 | **[1][N]20/2** | **(N) FC-C1 AND FC-C3** | **483** | | | **180** | **(N) RECPT** | **[1][N]20/1** | 20 |
| 21 | **-** | **-** | | **483** | | | **360** | **(N) RECPT** | **[1][N]20/1** | 22 |
| 23 | **[1][N]20/1** | **(N) REF** | | | **1,000** | | **666** | **(N) IDU/C-1** | **[1][N]20/2** | 24 |
| 25 | **[1][N]20/2** | **(N) ODU/C-1** | **666** | | | **666** | | **-** | | 26 |
| 27 | **-** | **-** | | **666** | | | **2,000** | **INVERTER "INV-C"** | **[1][N]25/1** | 28 |
| 29 | **[1][N]20/2** | **(N) FC-C2, FC-C4 AND BS-C2** | | | **550** | | **483** | **(N) FC-C5 AND FC-C7** | **[1][N]20/2** | 30 |
| 31 | **-** | **-** | **550** | | | **483** | **-** | **-** | | 32 |
| 33 | PFB | SPACE | | | | | **550** | **(N) FC-C6, FC-C8 AND BS-C1** | **[1][N]20/2** | 34 |
| 35 | PFB | SPACE | | | | | **550** | **-** | **-** | 36 |
| 37 | PFB | SPACE | | | | | | SPACE | PFB | 38 |
| 39 | PFB | SPACE | | | | | | SPACE | PFB | 40 |
| 41 | PFB | SPACE | | | | | | SPACE | PFB | 42 |
| | | PHASE TOTALS | A 34,712 | B 35,743 | C 35,233 | | | | |

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% | 103,688 | Watts |
| LARGEST MOTOR x 25% | 2,296 | Watts |
| TOTAL DEMAND LOADS | 108,484 | 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 | - | - | - | 6 |
| 7 | [E] 225/3 | (E) PANEL "RA2" | 5,000 | | | **7,080** | **(N) HP-A1** | **[1][N] 80/3** | 8 |
| 9 | - | - | | 5,000 | | | **7,080** | **-** | **-** | 10 |
| 11 | - | - | | | 5,000 | | | **7,080** | **-** | 12 |
| 13 | **[1][N] 20/2** | **(N) FC-A1 AND BS-A1** | **575** | | | 6,200 | (E) HP-A1 | [E] 80/3 | 14 |
| 15 | - | - | | **575** | | | 6,200 | - | - | 16 |
| 17 | **[1][N] 20/2** | **(N) FC-A2 AND BS-A2** | | | **575** | | | 6,200 | - | 18 |
| 19 | **-** | **-** | **575** | | | **800** | | **(N) CEF (A-1 - A-5)** | **[1][N] 20/1** | 20 |
| 21 | **[1][N] 20/1** | **(N) RCPT** | | **180** | | | **2,000** | **INVERTER "INV-A"** | **[1][N] 25/1** | 22 |
| 23 | **[1][N] 20/2** | **(N) FC-A3 AND FC-A4** | | | **433** | | **541** | **(N) FC-A5** | **[1][N] 20/2** | 24 |
| 25 | **-** | **-** | **433** | | | **541** | | **-** | **-** | 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 31,204 | B 31,035 | C 29,829 | | | | |

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% | 90,068 | Watts |
| LARGEST MOTOR x 25% | | Watts |
| TOTAL DEMAND LOADS | 92,568 | 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 | - | - | - | 6 |
| 7 | [E] 225/3 | (E) PANEL "RD" | 5,000 | | | **5,274** | **(N) HP-D1** | **[N] 60/3** | 8 |
| 9 | - | - | | 5,000 | | | **5,274** | **-** | **-** | 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 | | | 1,000 | - | - | 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 | | | 1,000 | - | - | 22 |
| 23 | - | - | | | 5,000 | | 1,000 | - | - | 24 |
| 25 | [E] 50/3 | (E) CU-D2 | 5,000 | | | **666** | **(N) FC-D(1,2,3,6) & BS-D1** | **[1][N]20/2** | 26 |
| 27 | - | - | | 5,000 | | | **666** | **-** | **-** | 28 |
| 29 | - | - | | | 5,000 | | **180** | **(N) RECPT** | **[1][N]20/1** | 30 |
| 31 | [E] 40/2 | (E) HP-D1 | 3,000 | | | **560** | **(N) SF-D1** | **[1][N]20/1** | 32 |
| 33 | - | - | | 3,000 | | | **2,000** | **INVERTER "INV-D"** | **[1][N]25/1** | 34 |
| 35 | [E] 20/1 | (E) RPS-D | | | 200 | | **716** | **(N) FC-D4** | **[1][N]20/2** | 36 |
| 37 | **[1][N]20/2** | **(N) FC-D5** | **716** | | | **716** | **-** | **-** | | 38 |
| 39 | **-** | **-** | | **716** | | | | SPARE | [E] 20/1 | 40 |
| 41 | [E] 20/1 | SPARE | | | | | | SPARE | [E] 20/1 | 42 |
| | | PHASE TOTALS | A 38,432 | B 39,156 | C 33,485 | | | | |

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% | 109,073 | Watts |
| LARGEST MOTOR x 25% | 1,319 | Watts |
| TOTAL DEMAND LOADS | 112,892 | Watts |
| TOTAL DEMAND AMPS | 314 | 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 | | | 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 | | | 7,000 | - | - | 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 | | | **9,184** | **-** | **-** | 16 |
| 17 | - | - | | | 5,000 | | **9,184** | **-** | **-** | 18 |
| 19 | **[1][N]20/2** | **(N) FC-B1 AND FC-B3** | **483** | | | **180** | | **(N) RECPT** | **[1][N]20/1** | 20 |
| 21 | **-** | **-** | | **483** | | | **360** | **(N) RECPT** | **[1][N]20/1** | 22 |
| 23 | **[1][N]20/1** | **(N) REF** | | | **1,000** | | **666** | **(N) IDU/B-1** | **[1][N]20/2** | 24 |
| 25 | **[1][N]20/2** | **(N) ODU/B-1** | **666** | | | **666** | | **-** | **-** | 26 |
| 27 | **-** | **-** | | **666** | | | **2,000** | **INVERTER "INV-B"** | **[1][N]25/1** | 28 |
| 29 | **[1][N]20/2** | **(N) FC-B2, FC-B4 AND BS-B2** | | | **550** | | **483** | **(N) FC-B5 AND FC-B7** | **[1][N]20/2** | 30 |
| 31 | **-** | **-** | **550** | | | **483** | | **-** | **-** | 32 |
| 33 | PFB | SPACE | | | | | **550** | **(N) FC-B6, FC-B8 AND BS-B1** | **[1][N]20/2** | 34 |
| 35 | PFB | SPACE | | | | | **550** | **-** | **-** | 36 |
| 37 | PFB | SPACE | | | | | | SPACE | PFB | 38 |
| 39 | PFB | SPACE | | | | | | SPACE | PFB | 40 |
| 41 | PFB | SPACE | | | | | | SPACE | PFB | 42 |
| | | PHASE TOTALS | A 39,212 | B 40,243 | C 39,433 | | | | |

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% | 116,888 | Watts |
| LARGEST MOTOR x 25% | | Watts |
| TOTAL DEMAND LOADS | 119,388 | Watts |
| TOTAL DEMAND AMPS | 332 | AMPS |

## INVERTER-C "INV-C"

120 Volt, 1 Phase, 2 Wire
25 Amp BUS CU.
30 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 | BUILDIN-C EXTEIOR LIGHTS | 160 |
| 4 | PFB | SPACE | |
| 5 | PFB | SPACE | |
| 6 | PFB | SPACE | |
| | | LOAD TOTAL | 816 |

| DEMAND LOADS | | |
|---|---|---|
| LIGHTING / CONTINUOUS L | 1020 | Watts |
| RECEPTACLES / OTHER x | | Watts |
| LARGEST MOTOR x 25% | | Watts |
| TOTAL DEMAND LOADS | 1020 | Watts |
| TOTAL DEMAND AMPS | 9 | AMPS |

## INVERTER-A "INV-A"

120 Volt, 1 Phase, 2 Wire
25 Amp BUS CU.
30 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 | BUILDIN-A EXTEIOR LIGHTS | 260 |
| 4 | PFB | SPACE | |
| 5 | PFB | SPACE | |
| 6 | PFB | SPACE | |
| | | LOAD TOTAL | 916 |

| DEMAND LOADS | | |
|---|---|---|
| LIGHTING / CONTINUOUS L | 1145 | Watts |
| RECEPTACLES / OTHER x | | Watts |
| LARGEST MOTOR x 25% | | Watts |
| TOTAL DEMAND LOADS | 1145 | Watts |
| TOTAL DEMAND AMPS | 10 | AMPS |

## INVERTER-D "INV-D"

120 Volt, 1 Phase, 2 Wire
25 Amp BUS CU.
30 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 | BUILDIN-D EXTEIOR LIGHTS | 120 |
| 3 | 20/1 | SPARE | |
| 4 | PFB | SPACE | |
| 5 | PFB | SPACE | |
| 6 | PFB | SPACE | |
| | | LOAD TOTAL | 574 |

| DEMAND LOADS | | |
|---|---|---|
| LIGHTING / CONTINUOUS L | 718 | Watts |
| RECEPTACLES / OTHER x | | Watts |
| LARGEST MOTOR x 25% | | Watts |
| TOTAL DEMAND LOADS | 718 | Watts |
| TOTAL DEMAND AMPS | 6 | AMPS |

## INVERTER-B "INV-B"

120 Volt, 1 Phase, 2 Wire
25 Amp BUS CU.
30 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 | BUILDIN-B EXTEIOR LIGHTS | 160 |
| 4 | PFB | SPACE | |
| 5 | PFB | SPACE | |
| 6 | PFB | SPACE | |
| | | LOAD TOTAL | 816 |

| DEMAND LOADS | | |
|---|---|---|
| LIGHTING / CONTINUOUS L | 1020 | Watts |
| RECEPTACLES / OTHER x | | Watts |
| LARGEST MOTOR x 25% | | Watts |
| TOTAL DEMAND LOADS | 1020 | Watts |
| TOTAL DEMAND AMPS | 9 | AMPS |

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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 RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA

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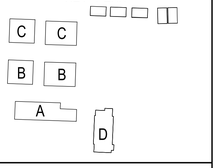
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |
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| | | |
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

ELECTRICAL PANEL SCHEDULES

| | |
|---|---|
| Date | Project Number |
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | E5.10 |
| Drawn / Checked | |
| KT / CD | |

## LIGHTING FIXTURE SCHEDULE

| TYPE | MANUFACTURER & CATALOG NUMBER | LAMP (CROSS SECTION) | VOLTS / VA | MOUNTING | REMARKS |
|---|---|---|---|---|---|
| A | FINELITE<br>HRP-LED-WAV2X4-DCO-HO-3500K-120V-SC-C1 | LED<br>3500K<br>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<br>HRP-LED-WAV2X4-DCO-HO-3500K-120V-SC-C1-EM | LED<br>3500K<br>90 CRI | 120 / 41 | RECESSED | SIMILAR TO TYPE "A" WITH 1700 LUMEN - INVERTER. |
| A2 | FINELITE<br>HRP-LED-WAV2X4-DCO-HO-3500K-120V-SC-C1 | LED<br>3500K<br>90 CRI | 120 / 41 | RECESSED | SIMILAR TO TYPE "A" 2'X2' |
| B | KENALL<br>MLHA8-48-R-MW-PP-45L35K-DCC-DV-FS-9500 | LED<br>3500K | 120 / 51 | SURFACE | LED SURFACE LIGHT FIXTURE. SEE 5/E5.12 FOR MOUNTING DETAIL. |
| D | WILLIAMS<br>124-L52/835-FAF12125-DIM-120V OR APPROVED EQUAL | LED<br>3500K<br>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<br>124-L52/835-FAF12125-DIM-120V OR APPROVED EQUAL | LED<br>3500K<br>90 CRI | 120 / 59 | SURFACE | SIMILAR TO TYPE "D" WITH 1700 LUMEN - INVERTER. |
| E | RAB<br>BRISKS11L-740 | LED | 120 / 20 | CANOPY/CEILING MOUNTED | WALKWAY/CANOPY MOUNTED LED - INVERTER. |
| X | HE WILLIAMS<br>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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Job #: 22-2198


| ARCHITECT | ENGINEER |
|---|---|
| LICENSED ARCHITECT<br>BRYAN P. WHITMORE<br>No. C 30345<br>Ren. 9/30/23<br>STATE OF CALIFORNIA<br>Void if Raised / Expanded | REGISTERED PROFESSIONAL ENGINEER<br>RAMI S. ZEIDAN<br>No. E 16762<br>Exp. 9/30/24<br>ELECTRICAL<br>STATE OF CALIFORNIA |

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REVISION HISTORY

| NO. | REMARKS | DATE |
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DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

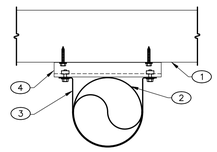
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

LIGHTING FIXTURE SCHEDULE

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | E5.11 |
| Drawn / Checked | |
| KT / CD | |

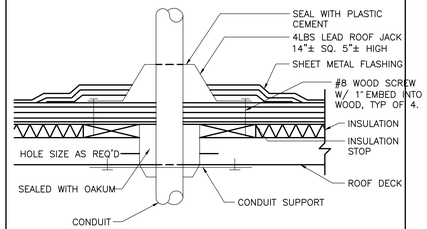
## KEY NOTES

1. WOOD FRAMED COVER WALKWAY.
2. CONDUIT, SEE PLAN FOR NUMBER AND SIZE.
3. "B-LINE" B3180 SERIES PIPE CLAMP. ATTACH TO CHANNEL W/ CHANNEL NUT AND WASER.
4. "B-LINE" B22 CHANNEL, LENGTH AS NEEDED FOR NUMBER OF CONDUITS, MIN 12" LONG. ATTACH TO WOOD JOIST W/ (2) 5/8"ø LAG BOLTS, MIN 3-1/2" EMBEDMENT., AT 8" O.C.




FILENAME

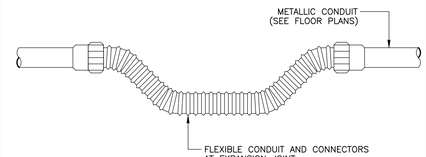
**UNDER COVER WALKWAY CONDUIT MOUNTING DETAIL** | NTS | 7




NOTES:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

FILENAME

**ROOF CONDUIT PENETRATION DETAIL** | NTS | 4

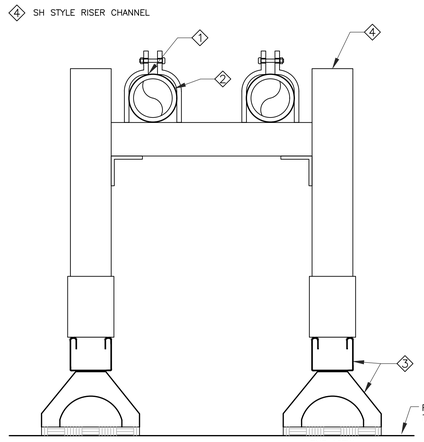



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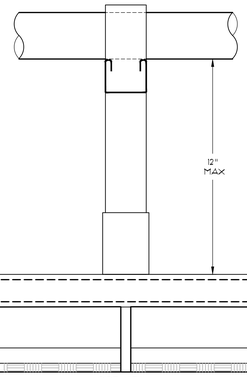
**SEISMIC JOINT CONDUIT DETAIL** | NTS | 1

## KEY NOTES

1. HOT-DIPPED GALVANIZED UNISTRUT CONDUIT CLAMP. SIZE AS REQUIRED.
2. CONDUIT AS NOTED ON DRAWINGS.
3. ROOFTOP SUPPORT BASE, B-LINE BB_DS SERIES WITH HOT-DIPPED GALVANIZED CHANNEL. SECURE TO ROOF WITH A FULL BED OF NON-HARDENING ADHESIVE TYPE MASTIC.
4. SH STYLE RISER CHANNEL



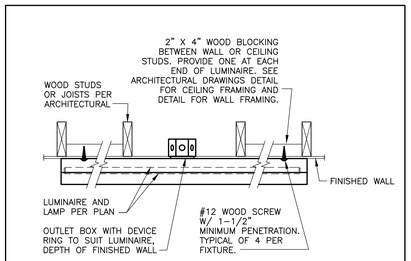

END VIEW




SIDE VIEW

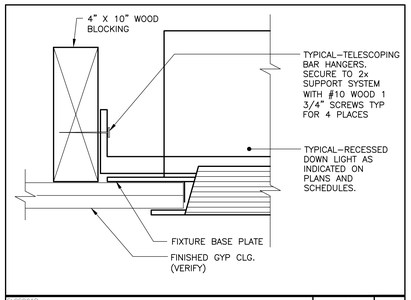
FILENAME

**ROOF CONDUIT HIGH SUPPORT DETAIL** | NTS | 8




FILENAME

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

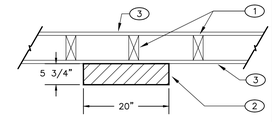



FILENAME

**RECESSED DOWNLIGHT MOUNTING DETAIL** WOOD FRAMING | NTS | 6

## KEY NOTES:

1. WOOD STUD
2. SURFACE MOUNTED PANEL CABINET, (SEE NOTE #1 FOR PANEL WEIGHT)
3. SHEET ROCK OR OTHER WALL SURFACE MATERIAL (SEE ARCH. DRAWINGS)
4. 4X MIN. WOOD BLOCK, FASTENED TO VERTICAL STUDS AT EACH END.
5. 5/16" LAG SCREWS WITH 2 1/2" MIN. EMBED TO BLOCK, (4) LAG SCREWS TOTAL. (INSTALLED BY ELECTRICAL CONTRACTOR)




TOP VIEW

PROVIDE:
SIMPSON A34 CLIPS ATTACHED WITH #9x1-1/2" SD SCREWS STAGGER EACH END OF 4X BLOCKING, TYPICAL

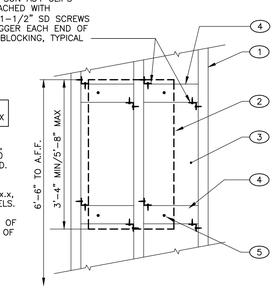
NOTES:

A. PANEL WEIGHT:
REGULAR: 150 LBS.
LARGE: 250LBS. MAX

B. MOUNT TERMINAL CABINETS, J-BOXES, ETC., SIMILAR TO 30 CIRCUIT PANELBOARD.

C. REFER TO PANEL SCHEDULE SHEET Ex.x, FOR SIZES OF PANELS.

D. CENTER OF GRAVITY OF CABINET FROM TOP OF FLOOR = ±50".




FRONT VIEW

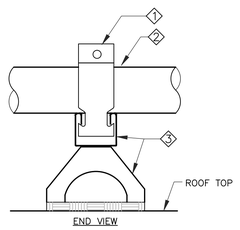
FILENAME

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

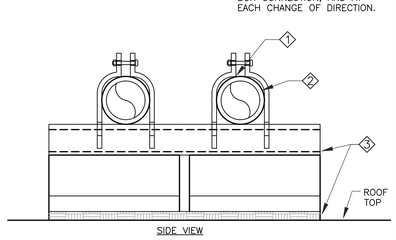
## KEY NOTES

1. HOT-DIPPED GALVANIZED UNISTRUT CONDUIT CLAMP. SIZE AS REQUIRED.
2. CONDUIT AS NOTED ON DRAWINGS.
3. ROOFTOP SUPPORT BASE, B-LINE C6 SERIES WITH HOT-DIPPED GALVANIZED B12 CHANNEL. SECURE TO ROOF WITH A FULL BED OF NON-HARDENING ADHESIVE TYPE MASTIC.

NOTE:
INSTALL SUPPORT BLOCK 8'-0" O.C. MAX, WITHIN 36" OF A BOX CONNECTION, AND AT EACH CHANGE OF DIRECTION.




END VIEW




SIDE VIEW

**ROOF CONDUIT LOW SUPPORT DETAIL** | NTS | 3

DSA STAMP


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Roseville, CA 95678
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 RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA |

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2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
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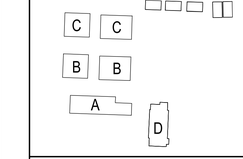
REVISION HISTORY

| NO. | REMARKS | DATE |
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DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

ELECTRICAL DETAILS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | E5.12 |
| Drawn / Checked | |
| KT / CD | |

## CONTRACTOR(S) GUIDELINES:

28. ALL SPLICES SHALL UTILIZE 3M 710 MODULES. ALL CABLES MUST BE EQUIPPED TO PROVIDE A CONTINUOUS BOUND OF CABLE SHIELDS THROUGH ALL SPLICES.

29. PULL ROPES SHALL BE PLACED IN ALL VACANT CONDUITS.

30. ALL WORK MUST BE COMPLETED IN A NEAT AND PROFESSIONAL MANNER. THE WORK SITE SHALL BE KEPT CLEAN AND ALL DAMAGE TO OWNER'S PROPERTY REPAIRED.

31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A FINAL CLEANUP OF THE WORK SITE PRIOR TO FINAL SYSTEM ACCEPTANCE.

32. CONTRACTOR SHALL REMOVE ALL COPPER, FIBER AND COAXIAL CABLES ABANDONED IN CONDUIT, CEILINGS AND WALLS PER CEC. CABLE SHALL INCLUDE ALL INTRABUILDING, RISER SYSTEMS AND STATION CABLES FOR ALL LOW VOLTAGE/TECHNOLOGY/STRUCTURED CABLING SYSTEMS.

33. CONTRACTOR(S) SHALL VERIFY ALL SITE CONDITIONS PRIOR TO BID.

34. IN ACCESSIBLE CEILING SPACES;

a. THE CONTRACTOR SHALL PROVIDE THE REQUIRED STUB UP(S) / OUT(S) AND BOXES WITH MUD-RINGS TO THE NEAREST ACCESSIBLE CEILING SPACE AND / OR NEAREST TECHNOLOGY PATHWAY INFRASTRUCTURE, REFERENCE PLANS AND SPECIFICATION FOR MORE INFORMATION.

b. THE DESIGNATED SCS / TECHNOLOGY CONTRACTOR(S) SHALL PROVIDE A J-HOOK PATHWAY SYSTEM AND REQUIRED SLEEVES. DO NOT USE CEILING TILE WIRE HANGERS, WATER OR ELECTRICAL PIPES, OR LIGHT FIXTURES TO HANG CABLE. CABLE MUST BE A MINIMUM OF 6 INCHES ABOVE THE CEILING TILE AND MUST NOT COME WITHIN TWELVE INCHES OF A LIGHT FIXTURE.

- THE SCS / TECHNOLOGY CONTRACTOR WILL PROVIDE THE PATHWAY REQUIRED FOR THE STRUCTURE CABLING SYSTEMS.
- THE DESIGNATED LOW VOLTAGE / TECHNOLOGY CONTRACTOR(S) FOR EACH "SUB-SYSTEM WILL PROVIDE THE PATHWAY REQUIRED FOR THE SYSTEMS, OUTSIDE WHAT IS CONSIDERED THE STRUCTURED CABLING SYSTEM.

35. IN INACCESSIBLE AND HARDLID CEILING SPACES;

a. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT PATHWAYS, BOXES ETC. FOR A COMPLETE SYSTEM FROM THE MDF ROOM, IDF ROOM(S), IDF CABINET(S), AND ALL OTHER LOW VOLTAGE / TECHNOLOGY SYSTEMS HEADEND, CABINETS, TERMINAL CABINETS, ETC. TO THE POINT OF TERMINATION AT THE STATION END LOCATION PER PLANS AND SPECIFICATION.

## TECHNOLOGY ABBREVIATIONS

| | | | |
|---|---|---|---|
| ACP | ACCESS CONTROL PROCESSOR | (N) | NEW |
| AFF | ABOVE FINISHED FLOOR | NC | NORMALLY CLOSED |
| AHJ | AUTHORITY HAVING JURISDICITON | NIC | NOT IN CONTRACT |
| AMP | AMPLIFIER | NO | NORMALLY OPEN |
| AOR | ARCHITECT OF RECORD | NTS | NOT TO SCALE |
| AUD | AUDIO | NVR | NETWORK VIDEO RECORDER |
| AUTO | AUTOMATIC | OC | ON CENTER |
| AUX | AUXILIARY | OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| AV | AUDIOVISUAL | | |
| AVc | AUDIOVISUAL CONTROLLER | OFOI | OWNER FURNISHED, OWNER INSTALLED |
| AWG | AMERICAN WIRE GUAGE | | |
| BCT | BONDING CONDUCTOR FOR TELECOMMUNICATIONS CONDUIT | OSP | OUTSIDE PLANT |
| | | PB | PULL BOX |
| C | CONDUIT | PIR | PASSIVE INFRARED |
| CATV | COMMUNITY ANTENNA TELEVISION | POE | POWER OVER ETHERNET |
| CFCI | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED | PR | PAIR OF CONDUCTORS |
| | | PTZ | PAN TILT ZOOM |
| CFOI | CONTRACTOR FURNISHED, OWNER INSTALLED | PVC | POLYVINYL CHLORIDE |
| | | PWR | POWER |
| CL | CENTERLINE | RCP | REFLECTED CEILING PLAN |
| DIV | DIVISION | REX | REQUEST TO EXIT |
| DC | DOOR CONTACT | RFI | REQUEST FOR INFORMATION |
| (E) | EXISTING | RMC | RIGID METALLIC CONDUIT |
| EC | ELECTRICAL CONTRACTOR | SCS | STRUCTURED CABLING SYSTEM |
| ECS | EMERGENCY COMMUNICATION SYSTEM | SM | SINGLE MODE |
| EF | ENTRANCE FACILITY FOR TELECOMMUNICATION | STR | STRANDS (OF FIBER) |
| | | STP | SHIELDED TWISTED PAIR |
| EMT | ELECTRIC METALLIC TUBING | SEC | SECURITY |
| ER | EQUIPMENT ROOM | TBB | TELECOMMUNICATIONS BONDING BACKBONE |
| EXT | EXTERIOR | | |
| (F) | FUTURE | TELCO | TELEPHONE COMPANY |
| FACP | FIRE ALARM CONTROL PANEL | TGB | TELECOMMUNICATIONS GROUNDING BUSBAR |
| FATC | FIRE ALARM TERMINAL CABINET | | |
| FB | FLOORBOX | TMGB | TELECOMMUNICATION MAIN GROUNDING BUSBAR |
| FO | FIBER OPTIC | | |
| GC | GENERAL CONTRACTOR | TYP | TYPICAL |
| IC | INTERCOM | UON | UNLESS OTHERWISE NOTED |
| IDF | INTERMEDIATE DISTRIBUTION FRAME | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| ICP | INTRUSION CONTROL PROCESSOR | UTP | UNSHIELDED TWISTED PAIR |
| INT | INTERIOR | V | VOICE |
| IP | INTERNET PROTOCOL | VSS | VIDEO SURVEILLANCE SYSTEM |
| IT | INFORMATION TECHNOLOGY | WB | WALL BOX |
| JB | JUNCTION BOX | WP | WEATHERPROOF |
| MDF | MAIN DISTRIBUTION FRAME | | |
| MIC | MICROPHONE | | |
| MM | MULTIMODE | | |
| MPOE | MINIMUM POINT OF ENTRY | | |

## EQUIPMENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

## PIPING, AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

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

OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #0043-13.

MP MD PP E
☐ ☐ ☐ ■

MP MD PP E
☐ ☐ ☐ ☐

## TECHNOLOGY PENETRATION NOTES:

1. UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE NO PENETRATION OF FLOORS, WALLS OR CEILING WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE.

2. WALL PENETRATIONS:

a. THE SCS AND/OR LV CONTRACTOR SHALL PROVIDE FIRE STOPPING FOR ALL COMMUNICATIONS RATED (AND IN SOME CASES NON-RATED, THAT WILL BE DESCRIBED BELOW THIS SECTION) PATHWAYS AND SPACES. THESE FIRE STOPPING DEVICES SHALL CONFORM TO (BUT NOT LIMITED TO) UL 1479, ASTM E814, BICSI TDMM, FIRE STOPPING ANSI/TIA-568-C, STANDARD FOR INSTALLING COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING, SECTION 5, CLAUSE 5.1 THROUGH 5.2.3, MANUFACTURES GUIDELINES OR OTHER PREVAILING CODE AND MUST BE AN APPROVED UL LISTED SYSTEM.

b. CABLE TRAY FIRE-STOPPING SHALL UTILIZE THE MULTI GANG FIRE-STOPPING SYSTEM THAT WILL BE ABLE TO STACK THE UNITS HORIZONTALLY AND/OR VERTICALLY IF REQUIRED DUE TO CURRENT AND/OR FUTURE CABLING DESIGNS.

c. THE CONTRACTOR SHALL INSTALL PENETRATION FIRE-STOP SEAL MATERIALS IN ACCORDANCE WITH DESIGN REQUIREMENTS, AND MANUFACTURER'S INSTRUCTIONS.

d. THE CONTRACTOR'S INSTALLER SHALL BE CERTIFIED, LICENSED OR OTHERWISE QUALIFIED BY THE FIRE-STOPPING MANUFACTURER AS HAVING BEEN PROVIDED THE NECESSARY TRAINING TO INSTALL MANUFACTURER'S PRODUCTS PER SPECIFIED REQUIREMENTS.

e. ALL THROUGH-PENETRATION SHALL BE A MANUFACTURED, UL CLASSIFIED, FIRE-STOP DEVICE / SYSTEM DESIGNED TO ALLOW CABLES TO PENETRATE FIRE-RATED WALLS WITH A BUILT-IN FIRE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED. THE FIRE-STOPPING DEVICE SHALL BE CAPABLE OF INSTALLATION IN NEW CONSTRUCTION OR RETROFIT IN EXISTING STRUCTURES.

f. THE CONTRACTOR MUST NOT USE CONCRETE OR OTHER NON-REMOVABLE SUBSTANCE FOR FIRE STOPPING ON CABLE TRAYS, WIREWAYS OR CONDUITS. CONTRACTORS WHO USE THIS METHOD WILL BE REQUIRED TO REPLACE ALL CABLES AFFECTED AND PROVIDE THE ORIGINAL SPECIFIED ACCESS TO EACH EFFECTED AREA. THIS REQUIREMENT ALSO APPLIES TO MAINTAINING FIRE RATINGS OF ALL FLOORS PENETRATED BY CONDUITS OR DEVICES DESIGNATED FOR USE BY VOICE AND DATA CABLING.

g. ANY PENETRATIONS THROUGH FIRE-RATED WALLS FOR CABLE PATHWAYS / CABLES SHALL BE SEALED BY USE OF A NON-PERMANENT FIRE BLANKET OR OTHER METHOD IN COMPLIANCE. THE CONTRACTOR MUST USE FIRE STOPPING ON CABLE TRAYS, WIREWAYS AND CONDUITS EITHER VERTICAL OR HORIZONTAL. FOUR DIFFERENT METHODS OF FIRE-STOPPING HAVE BEEN IDENTIFIED FOR THE HORIZONTAL THROUGH PENETRATIONS BETWEEN WALLS, RATED, RATED WITH ACOUSTIC PROPERTIES, NON-RATED, AND NON-RATED WITH ACOUSTIC PROPERTIES.

BELOW ARE METHODS TO ACCOMPLISH THESE DIFFERENT TYPES:
- SEALING OF RATED OPENINGS BETWEEN FLOORS OR THROUGH RATED WALLS, WHETHER EXISTING OR CREATED BY THE CONTRACTOR FOR PLACEMENT OF CABLE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEALING MATERIAL AND APPLICATION SHALL BE AN APPROVED UL LISTED SYSTEM AND SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT IS ACCEPTABLE TO THE LOCAL FIRE AND BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS WORK. CREATION OF SUCH OPENINGS AS ARE NECESSARY FOR CABLE PASSAGE BETWEEN LOCATIONS AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY OPENINGS CREATED BY OR FOR THE CONTRACTOR AND LEFT UNUSED SHALL ALSO BE SEALED AS PART OF THIS WORK.
- RATED WALLS WITH THROUGH PENETRATIONS WITH ACOUSTIC PROPERTIES SHALL BE INSTALLED WITH FACTORY MANUFACTURED DEVICE. SUCH AS A STI "EZ PATH" OR WIREMOLD "FLAMESTOPPER" OR EQUAL. THE TYPICAL STC RATING IS TO BE EQUAL TO OR GREATER THAN THE WALL PENETRATED, (AVG IS A RATING OF 44 STC PER UBC RATINGS).
- NON-RATED PATHWAY, ALTHOUGH NOT REQUIRED TO BE FIRE-STOPPED, SHALL BE A MANUFACTURED DEVICE THAT WILL ALLOW FIRE-STOPPING TO BE INSTALLED IN THE FUTURE IF REQUIRED, (I.E. WIREMOLD "FLAMESTOPPER" OR EQUAL).
- A NON-RATED PATHWAY WITH ACOUSTIC PROPERTIES CAN BE FOUND IN AREAS SUCH AS, CONFERENCE ROOMS, HUMAN RESOURCE OFFICES, MEDICAL EXAMINATION ROOMS ETC. THESE ROOMS REQUIRE TO LIMIT THE AMOUNT OF AMBIENT NOISE THAT CAN TRAVEL FROM ONE ROOM TO THE OTHER THROUGH THE CEILING GRID. IF THIS WALL IS PENETRATED, INSTALL A SYSTEM THAT WILL RE-ESTABLISH THE STC RATING OF THE WALL, THE TYPICAL STC RATING IS AN AVERAGE OF 44 STC PER UBC RATINGS.

## CONTRACTOR(S) GUIDELINES:

1. ALL TECHNOLOGY WORK SHALL COMPLY WITH DESIGN GUIDELINES AS WELL AS APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.

2. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, CODE OR SPECIFICATION WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.

3. OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR THE MIS-DESCRIPTION OF DETAILS FROM WORK WHICH ARE CLEAR AND NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS, SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MIS-DESCRIBED DETAILS OF THE WORK BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.

4. THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED, IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE OWNER OF ANY DISCREPANCIES.

5. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.

6. THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.

7. ALL CHANGES TO STRUCTURES (BUILDING, DRILLING, CORING, ETC.) NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN WRITING BY STRUCTURAL ENGINEER.

8. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, THE TELECOM DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DATA INFORMATION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE SCS AND LOW VOLTAGE WORK INTERFACES WITH OTHER TRADES.

9. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS TO REFLECT ALL CHANGES MADE DURING CONSTRUCTION AND ANY DEVIATIONS FROM THE ELECTRICAL AND TECHNOLOGY DRAWINGS. THIS INCLUDES DEVIATIONS FROM OUTLET NUMBERS AND ANY ADDITION, DELETION OR RELOCATION OF OUTLETS SHOWN ON WORKING DRAWINGS, PATHWAY ADDITIONS, DELETIONS OR RELOCATIONS. THE CONTRACTOR SHALL AFTER COMPLETION OF JOB, PROVIDE THE OWNER AN ELECTRONIC AND HARD COPY OF AS-BUILT WORK.

10. ANY DEVIATIONS FROM PLANS OR SPECS MUST BE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.

11. ALL FOOTAGES ON DRAWINGS ARE ESTIMATED AND MUST BE VERIFIED BY CONTRACTOR PRIOR TO ORDERING MATERIAL.

12. ALL STATION CABLES SHALL BE NEATLY DRESSED AND SECURED EVERY FIVE FEET AT A MINIMUM.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILE INCLUDING REPLACEMENT OF BROKEN OR DAMAGED TILES.

14. ALL LOCATIONS PASSING THROUGH A FIRE OR A SMOKE BARRIER MUST BE FIRE STOPPED USING APPROVED (UL CLASSIFIED) FIRE STOP SYSTEM, INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND PROPERLY LABELED.

15. CONDUIT SHALL BE FILLED TO MAXIMUM CAPACITY (PER CODE, STANDARDS, AND NORMS) BEFORE UTILIZING ANOTHER VACANT CONDUIT.

16. ALL STATION OUTLETS AND TERMINALS SHALL BE PROPERLY IDENTIFIED USING THE OWNER'S STANDARD INTERNAL DISTRIBUTION NUMBERING SCHEME. ALL LABELS SHALL BE PREPRINTED OR TYPED.

17. EACH BACKBONE RISER AND/OR OSP CABLE SHALL BE EQUIPPED WITH A PERMANENT LABEL INDICATING CABLE TYPE, PAIR OR OPTIC COUNTS, DISTANT ENDS, AND CABLE LENGTH. BOTH ENDS OF EACH CABLE AND AT EVERY MAINTENANCE HOLE, HAND HOLE, AND PULL BOX, SHALL BE SO LABELED.

18. FIBER BACKBONE CABLE SHALL BE PLACED WITH 6 FOOT MAINTENANCE LOOP AT BOTH ENDS OF THE RUN. THE MAINTENANCE LOOP SHALL BE SECURED IN SUCH A MANNER TO PROVIDE PROTECTION DURING SUBSEQUENT CABLE PULLS.

19. ALL STATION CABLES/OUTLETS SHALL BE TESTED AND DOCUMENTED USING A PAIR SCANNER SPECIFICALLY DESIGNED TO TEST THE TYPE OF CABLE INSTALLED (E.G. CATEGORY 6A). TEST RESULTS SHALL BE ONE PAGE PER AND NOTED WITH THE STATION/JACK NUMBERING SCHEME THAT IS STANDARDIZED FOR THE OWNER.

20. ALL FIBER OPTIC STATION AND RISER CABLE SHALL BE TESTED END-TO-END AND THE RESULTS (LOSS IN dB) NOTED ON A SEPARATE TYPED SHEET.

21. AFTER STATION CABLE IS TESTED AND DOCUMENTED, ONE PAIR FROM EACH VOICE STATION SHALL BE CROSS CONNECTED THROUGH EACH CLOSET BACK TO THE MAIN DISTRIBUTION FRAME. TELEPHONE NUMBER ASSIGNMENTS FOR EACH JACK MUST BE APPROVED BY THE TELECOM STAFF PRIOR TO IMPLEMENTATION. A WRITTEN RECORD OF ALL CROSS CONNECT ASSIGNMENTS WILL BE PROVIDED TO THE OWNER BY THE SCS CONTRACTOR.

22. FIBER CABLES SHALL BE SPLICED TOGETHER USING A FUSION SPLICE AND PLACED IN A FIBER SPLICE CASE THAT IS RE-ENTERABLE, FULLY DRESSED AND ENCLOSED TO FIT THE NUMBER AND TYPE OF CABLES TERMINATED.

23. CABLE TRAY SHALL BE PLACED IN MDF AND IDF(S) AS SHOWN ON DRAWINGS AND AS REQUIRED TO PROPERLY SECURE CABLES AND WIRE.

24. A BACKBONE CABLE ASSIGNMENT RECORD SHEET SHALL BE PREPARED (TYPED) PRIOR TO START OF ACCEPTANCE TESTING. ALL FLOOR PLANS SHALL BE NEATLY HAND NOTED WITH STATION JACK NUMBER AND CABLE LENGTH.

25. ALL CABLES SHALL BE CLEARLY LABELED WITH CABLE NUMBERS, PAIR ASSIGNMENTS AND DESIGNATION.

26. ALL CABLE TRAYS, LADDER RACKS, CONDUITS, EQUIPMENT RACKS, PROTECTOR PANELS, AND CABLE SHEATHS SHALL BE BONDED & GROUNDED TO EQUIPMENT GROUND WITH #6 WIRE (MIN.)

27. ALL SPLICES SHALL BE CONTAINED WITHIN AN APPROVED SPLICE CASE DESIGNED FOR MULTIPLE CLOSURE.

## TECHNOLOGY CABLING NOTES:

1. THE USE OF LUBRICANTS SUCH AS CLEAR GLIDE, TO FACILITATE THE INSTALLATION OF CABLES IN CONDUITS IS ENCOURAGED FOR FRICTION REDUCTION AND TO MAINTAIN THE REQUIRED PULL TENSION. YELLOW 77 AND POLYWATER "F" IS PERMISSIBLE FOR USE AS A LUBRICANT FOR ISP TECHNOLOGY CABLING. THE USE OF OSP, LOW TEMPERATURE CABLE LUBRICANTS SHALL NOT BE ACCEPTABLE IN AN INDOOR PLENUM ENVIRONMENT. UNDER NO CIRCUMSTANCES SHALL CABLE PULLING LUBRICANT BE ALLOWED TO ACCUMULATE ON WALLS, FLOORS, BACKBOARDS, OR OTHER SURFACES OUTSIDE THE CONDUIT.

2. ANY CABLE DAMAGED OR EXCEEDING RECOMMENDED INSTALLATION PARAMETERS DURING INSTALLATION SHALL BE REPLACED BY THE CONTRACTOR BEFORE FINAL ACCEPTANCE AT NO COST TO THE OWNER.

3. EACH RUN OF CABLE BETWEEN THE TERMINATION BLOCK OR PATCH PANEL AND THE STATION CONNECTOR SHALL BE CONTINUOUS WITHOUT ANY JOINTS OR SPLICES.

4. ALL STATION CABLE SHALL BE PLACED IN THE INTERIOR OF WALLS UNLESS OTHERWISE NOTED OR OBSTRUCTED.

5. PROVIDE BUSHINGS, GROMMETS AND STRAIN-RELIEF FOR CABLES TERMINATING AT WALL-MOUNTED OUTLETS AND PATCH PANELS TO ENSURE DURABLE AND ROBUST CONNECTIONS. THE BUSHINGS AND GROMMETS ARE INTENDED TO PROTECT THE CABLES FROM ANY SHARP EDGES THAT PRESENT A RISK TO THE CABLES. ENSURE THAT ALL SHARP EDGES ARE COVERED TO PROTECT THE CABLES FROM DAMAGE.

6. ALL CABLE BUNDLES EXITING FLOOR OR WALL PENETRATIONS AND RUNNING INTO FURNITURE OR CASEWORK SHALL BE WRAPPED IN SPIRAL WRAP OR SPLIT-LOOM TUBING TO PROTECT THE CABLING AND PROVIDE A NEAT INSTALLATION.

7. ALL CABLE OR INNERDUCT SHALL RUN PARALLEL OR AT RIGHT ANGLES TO BUILDING WALL STRUCTURES.

8. IN SUSPENDED CEILING AND RAISED FLOOR AREAS WHERE DUCT, CABLE TRAYS OR CONDUIT ARE NOT AVAILABLE, CABLE BUNDLES SHALL BE SUPPORTED VIA "J" HOOKS ATTACHED TO THE BUILDING STRUCTURE AND FRAMEWORK AT A MAXIMUM OF FIVE (5) FOOT INTERVALS. MINIMUM 1 " WIDE J-HOOKS SHALL BE APPROPRIATELY SIZED TO ALLOW A MINIMUM OF 60% SPARE CAPACITY FOR FUTURE CABLE INSTALLATION. THE CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID FOR ANY ADDITIONAL SUPPORTS/SEISMIC BRACING REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

9. THE CONTRACTOR SHALL BUNDLE, IN BUNDLES OF 48 OR LESS, STATION OR OTHER CABLING WITH 3/4" HOOK AND LOOP "VELCRO" STRIPS TIGHT ENOUGH TO HOLD THE BUNDLE TOGETHER IN A CYLINDRICAL SHAPE, BUT NOT SO TIGHT AS TO DEFORM THE CABLE GEOMETRY. IT SHALL BE POSSIBLE TO COMPLETELY ROTATE ALL HOOK AND LOOP TIES AROUND ALL CABLE BUNDLES. PLENUM RATED HOOK AND LOOP TIES WILL BE USED IN ALL PLENUM AREAS.

10. CABLES OR J-HOOKS SHALL NOT BE ATTACHED TO LIFT OUT CEILING GRID SUPPORTS OR LAID DIRECTLY ON THE CEILING GRID.

11. CABLES OR J-HOOKS SHALL NOT BE ATTACHED TO OR SUPPORTED BY FIRE SPRINKLER HEADS OR DELIVERY SYSTEMS OR ANY ENVIRONMENTAL SENSOR LOCATED IN THE CEILING AIR SPACE.

12. WHERE ADDITIONAL CONDUIT(S)/SLEEVE(S) ARE REQUIRED, BUT NOT PROVIDED BY THE CONTRACTOR, THE SCS AND/OR LV CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SUCH CONDUIT(S)/SLEEVE(S). CONDUIT(S) AND SLEEVE(S) SHALL BE OF SUITABLE MATERIAL, SIZED, INSTALLED, FIRE-STOPPED, AND GROUNDED AS REQUIRED BY THE CEC 2022, ANSI/TIA-569-D STANDARD AND ALL OTHER APPLICABLE CODES AND STANDARDS. SLEEVES SHALL CONSIST OF METALLIC CONDUIT DE-BURRED AND GROMMETTED ON BOTH ENDS WITH FLANGES OR OTHER MEANS TO PREVENT THE SLEEVE FROM SLIPPING OR FALLING OUT OF THE PARTITION. SLEEVES SHALL EXTEND A MINIMUM OF 6" ON BOTH SIDES OF THE PARTITION. OUTSIDE PERIMETER OF SLEEVES SHALL BE SEALED AGAINST SOUND, AIR, WATER, HEAT, OR AS REQUIRED BY PARTITION DESIGN. INSIDE OF SLEEVE SHALL BE SEALED SIMILARLY AFTER INSTALLATION OF ALL CABLING. CABLES SHALL BE INDEPENDENTLY SUPPORTED ON EITHER SIDE OF THE SLEEVE. SLEEVES SHALL NOT BE USED AS CABLE SUPPORTS. ANY CONDUIT(S) AND SLEEVE(S) ADDED BY THE SCS CONTRACTOR SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.

13. IN THE EVENT CONTRACTOR IS REQUIRED TO REMOVE CEILING TILES, SUCH WORK SHALL NOT BREAK OR DISTURB GRID. REMOVAL OF THE CEILING GRID MUST BE COORDINATED WITH THE OWNERS REPRESENTATIVE. ALL INSULATION SHALL BE REPLACED IN ITS ORIGINAL LOCATION.

14. THE NUMBER OF CABLES IN EACH CONDUIT SHALL BE CONTROLLED TO ALLOW FOR FUTURE CABLE INSTALLATION AND TO STAY WITHIN THE MANUFACTURER'S MAXIMUM ALLOWABLE CABLE PULLING TENSION. CONDUIT FILL RATIOS SHALL NOT EXCEED THE CURRENT REQUIREMENTS OF THE CEC 2022, ANSI/TIA-569-D, REFERENCE SECTION B.2, TABLES 1 AND 2 OF THIS DOCUMENT FOR ADDITIONAL REQUIREMENTS.

15. CONDUITS:
- ALL BACKBONE CABLING WILL RUN THROUGH DEDICATED CONDUITS.
- ALL NEW CONDUITS WILL BE SUPPLIED WITH A PULL STRING BY THE CONTRACTOR.
- EXISTING CONDUITS SHALL BE PROVEN TO BE CLEAR BY THE SCS AND/OR LV CONTRACTOR PRIOR TO PULLING OF CABLES.
- SCS AND/OR LV CONTRACTOR SHALL SUPPLY PULL STRING AND PULL ROPE FOR THE INSTALLATION OF ALL CABLES IN EXISTING CONDUITS.
- FOR ALL CONDUITS LEFT WITH AVAILABLE CAPACITY, SCS AND/OR LV CONTRACTOR SHALL REPLACE PULL STRINGS DURING THE COURSE OF HIS WORK.
- SCS AND/OR LV CONTRACTOR MUST SEAL ALL CONDUITS WITH AN APPROVED SEALING COMPOUND.

## TECHNOLOGY GROUNDING SYSTEM NOTES:

1. THE CONTRACTOR SHALL PROVIDE A TELECOMMUNICATION GROUNDING BUSSBAR (TGB) AND TELECOMMUNICATION BONDING BACKBONE (TBB) CABLE(S) AT EACH MDF ROOM AND IDF LOCATION. TERMINATE THE TBB ON GROUND BARS LOCATED AT EACH MDF ROOM AND IDF CABINET FROM BUILDING STEAL OR MAIN ELECTRICAL GROUND, OR AS OTHERWISE INDICATED ON THE DRAWINGS.

2. THE SCS CONTRACTOR SHALL UTILIZE A TELECOMMUNICATIONS BONDING BACKBONE (TBB) AS INDICATED IN THE DRAWINGS. GROUNDING MUST BE IN ACCORDANCE WITH THE CEC 2022, ANSI/TIA-607-B AND ALL LOCAL CODES AND PRACTICES.

3. THE SCS CONTRACTOR SHALL BE RESPONSIBLE FOR BONDING ALL METALLIC SHEATH COMMUNICATIONS CABLES ENTERING THE BUILDING PER MANUFACTURER SPECIFICATIONS AND CEC 770-33, 800-33 AND 800-40. ALL GROUNDS SHALL CONSIST OF # 6-AWG COPPER WIRE AND SHALL BE SUPPLIED FROM AN APPROVED BUILDING GROUND AND BONDED TO THE MAIN ELECTRICAL GROUND. ALL CABLE SHEATHS AND SPLICE CASES SHALL BE GROUNDED TO A TELECOMMUNICATIONS GROUND BUS.

4. THE SCS CONTRACTOR SHALL PROVIDE GROUNDING AND BONDING FROM ALL HORIZONTAL EQUIPMENT INCLUDING DISTRIBUTION AND CROSS CONNECT FRAMES, PATCH PANELS, CABLE TRAYS, EQUIPMENT RACKS, LADDER TRAYS, CONDUITS, ACTIVE TELECOMMUNICATION EQUIPMENT, SLEEVES, TEST APPARATUS. EQUIPMENT SHALL BE BONDED TO THE TBB GROUND BARS UTILIZING A #6-AWG GREEN CONDUCTOR WITH 2-HOLE LONG BARREL COMPRESSION GROUNDING LUGS.

a. EACH EQUIPMENT CABINET AND RACK REQUIRES ITS OWN DEDICATED RACK GROUNDING BUSBAR (RGB) WITH A BONDING CONNECTION TO THE GROUNDING INFRASTRUCTURE. THE GROUNDING INFRASTRUCTURE CONSIST OF A TB, BY PROVIDING EVERY RACK/CABINET WITH ITS OWN DEDICATED #6 WAG (MIN.) GREEN CONDUCTORS BACK TO THE TOMB/TB. ALL GROUND CONDUCTOR ATTACHMENTS SHALL UTILIZE 2-HOLE LONG BARREL COMPRESSION LUGS.

b. HORIZONTAL CABLES SHALL BE GROUNDED IN COMPLIANCE WITH ANSI/TIA-607-C, FP 70 (EEC) AND LOCAL REQUIREMENTS AND PRACTICES.

c. IN RAISED-FLOOR ENVIRONMENTS, THE GROUND CONDUCTOR SHALL ATTACH TO THE LOWEST HOLES ON THE FRONT RAIL OF EACH RACK/CABINET.

d. RACK MOUNTED EQUIPMENT SHALL BE GROUNDED VIA THE CHASSIS, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

e. BONDING OF LADDER RACK SECTIONS: ATTACH BONDING STRAPS TO EACH LADDER RACK SECTION BY UTILIZING EITHER TWO (2) TRI-LOBULAR THREAD-FORMING SCREWS (NOT SELF-TAPPING OR SHEET METAL SCREWS) OR BY USING TWO (2) STANDARD BOLTS WITH TWO (2) "TYPE B" INTERNAL / EXTERNAL TOOTH LOCK WASHERS PER BOLT. IF THREAD-FORMING SCREWS ARE NOT USED, REMOVE PAINT AT EACH CONNECTION POINT AND USE AN APPROVED ANTI-OXIDANT PRIOR TO ATTACHING THE BONDING STRAP.

## TECHNOLOGY TERMINAL BACKBOARD NOTES:

1. WHERE INDICATED ON DRAWINGS, CONTRACTOR TO PROVIDE NEW PLYWOOD TERMINAL BACKBOARDS. USE DOUGLAS FIR PLYWOOD, INTERIOR A/C GRADE, FINISHED ONE SIDE AND PRIME COAT PAINTED ON ALL SURFACES WITH A FINISH COAT OF FIRE RETARDANT WHITE ENAMEL. ON EACH PLYWOOD SHEET LEAVE ONE (1) FIRE MARSHAL STAMP UNPAINTED FOR INSPECTION. UNLESS OTHERWISE INDICATED, USE 8'-0" HIGH X LENGTH AS SHOWN ON DRAWINGS X 3/4" THICK PLYWOOD. REFERENCE BACKBOARD ELEVATIONS FOR MORE INFORMATION.

## TECHNOLOGY PATHWAY NOTES:

1. PATHWAYS CAN BE DIVIDED UP INTO TWO SEPARATE CATEGORIES, OUTSIDE PLANT (OSP) AND INSIDE PLANT (ISP). IT IS THE SCS AND/OR LV SYSTEM(S) CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL EXISTING PATHWAYS (CONDUIT, CABLE TRAY, ETC) THAT WILL BE UTILIZED ON THE PROJECT, AND COORDINATE WITH THE ON-SITE ELECTRICAL OR GENERAL CONTRACTOR TO PROVE ALL PATHS SUBJECT TO BE USED ON THIS PROJECT, BEFORE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION ALL UNDERGROUND (OSP) PATHWAYS, NON-ACCESSIBLE AND OPEN CEILING SPACE PATHWAYS AS DESCRIBED IN SECTION F, CONTRACTOR GUIDELINES OF THESE TECHNOLOGY GENERAL NOTES.

2. ALL PULL-BOXES SHALL BE SIZED AND INSTALLED PER ANSI/TIA-569-D. PULL-BOXES FOR IN/UNDER SLAB CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULL-BOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULL-BOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3R RATED. PULL-BOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING: FOR FILL RATIO BASED CONDUIT SIZING REFER TO THE FILL RATIO TABLE 1A - 2B BELOW AND REFERENCE TO ANSI/TIA-569-D.

PULLBOX SIZING PER ANSI/TIA 569-D

| Conduit Size | WIDTH | LENGTH | DEPTH | WIDTH INCREASE PER ADDITIONAL CONDUIT |
|---|---|---|---|---|
| 1" | 4" | 15"... | 3" | 2" |
| 2" | 8" | 36" | 4" | 5" |
| 3" | 61 | 48" | 5" | 6" |
| 4" | 101 | 60" | 8" | 8" |

FILL RATIO TABLE 1A - Conduit

| Conduit Size | .13 | .18 | .19 | .20 | .21 | .22 | .23 | .24 | .25 | .26 | .27 | .28 | .29 | .30 | .31 | .32 | .33 | .34 | .35 | .37 | .39 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/4" | 16 | 8 | 7 | 6 | 6 | 5 | 5 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| 1" | 26 | 13 | 12 | 11 | 9 | 9 | 8 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 2 |
| 1 1/4" | 45 | 23 | 21 | 19 | 17 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 9 | 8 | 7 | 7 | 6 | 6 | 6 | 5 | 5 |
| 1 1/2" | 61 | 32 | 28 | 25 | 23 | 21 | 19 | 18 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 10 | 9 | 8 | 8 | 7 | 6 |
| 2" | 101 | 52 | 47 | 42 | 38 | 35 | 32 | 29 | 27 | 25 | 23 | 21 | 20 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 |
| 2 1/2" | 176 | 92 | 82 | 74 | 67 | 61 | 56 | 51 | 47 | 44 | 40 | 38 | 35 | 33 | 31 | 29 | 27 | 25 | 24 | 21 | 19 |
| 3" | 266 | 139 | 124 | 112 | 102 | 93 | 85 | 78 | 72 | 66 | 61 | 57 | 53 | 50 | 46 | 43 | 41 | 38 | 36 | 32 | 29 |
| 3 1/2" | 347 | 181 | 162 | 146 | 133 | 121 | 111 | 102 | 94 | 86 | 80 | 74 | 69 | 65 | 61 | 57 | 53 | 50 | 47 | 42 | 38 |
| 4" | 444 | 231 | 208 | 187 | 170 | 155 | 142 | 130 | 120 | 111 | 103 | 95 | 89 | 83 | 78 | 73 | 68 | 64 | 61 | 54 | 49 |

FILL RATIO TABLE 2A - Cable Tray / Wire Basket / Raceway per NEC 2017 Article 725

| Tray Size (WxD) | .13 | .18 | .19 | .20 | .21 | .22 | .23 | .24 | .25 | .26 | .27 | .28 | .29 | .30 | .31 | .32 | .33 | .34 | .35 | .37 | .39 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4x4 | 482 | 251 | 225 | 203 | 184 | 168 | 154 | 141 | 130 | 120 | 111 | 103 | 96 | 90 | 84 | 79 | 74 | 70 | 66 | 59 | 53 |
| 6x4 | 723 | 377 | 338 | 305 | 277 | 252 | 231 | 212 | 195 | 180 | 167 | 155 | 145 | 135 | 127 | 119 | 112 | 105 | 99 | 89 | 80 |
| 12x4 | 1447 | 754 | 677 | 661 | 554 | 505 | 462 | 424 | 391 | 361 | 335 | 311 | 290 | 271 | 254 | 238 | 224 | 211 | 199 | 178 | 160 |
| 18x4 | 2170 | 1132 | 1016 | 917 | 831 | 758 | 693 | 636 | 587 | 542 | 503 | 467 | 436 | 407 | 381 | 358 | 336 | 317 | 299 | 267 | 241 |
| 24x4 | 2894 | 1509 | 1355 | 1222 | 1109 | 1010 | 924 | 849 | 782 | 732 | 671 | 623 | 581 | 543 | 509 | 477 | 449 | 423 | 399 | 357 | 321 |
| 6x6 | 1085 | 566 | 508 | 458 | 415 | 379 | 346 | 318 | 293 | 271 | 251 | 233 | 218 | 203 | 190 | 179 | 168 | 158 | 149 | 133 | 120 |
| 12x6 | 2170 | 1132 | 1016 | 917 | 831 | 758 | 693 | 636 | 587 | 542 | 503 | 467 | 436 | 407 | 381 | 358 | 336 | 317 | 299 | 267 | 241 |
| 18x6 | 3256 | 1698 | 1524 | 1375 | 1247 | 1137 | 1040 | 955 | 880 | 814 | 754 | 701 | 654 | 611 | 572 | 537 | 505 | 476 | 449 | 401 | 361 |
| 24x6 | 4341 | 2264 | 2032 | 1834 | 1663 | 1516 | 1387 | 1273 | 1174 | 1085 | 1006 | 935 | 872 | 815 | 763 | 716 | 673 | 634 | 598 | 535 | 482 |

PATHWAY SEPARATION FROM SOURCE OF ELECTROMAGNETIC ENEGRY:

| CONDITION | <2KVA | 2-5 KVA | >5KVA |
|---|---|---|---|
| Unshielded Power Lines in Proximity to open PVC Pathways | 5" (In.) | 12" (In.) | 24" (In.) |
| Unshielded Power Lines in Proximity to Grounded Metallic Pathways | 2.5" (In.) | 6" (In.) | 12" (In.) |
| Power Lines enclosed in Metal Grounded Pathways in proximity to Grounded Metallic... | <1" (In.) | 3" (In.) | 6" (In.) |

3. FOR ALL FIRESTOPPING OF SCS AND LV SYSTEMS PATHWAY RESPONSIBILITIES REFERENCE SECTION G, PENETRATION OF WALLS, FLOOR AND CEILINGS OF THESE TECHNOLOGY GENERAL NOTES.

4. FOR ALL OTHER SCS AND/OR LV SYSTEMS PATHWAY RESPONSIBILITIES REFERENCE SECTION F, CONTRACTOR GUIDELINES OF THESE TECHNOLOGY GENERAL NOTES.

5. OUTSIDE PLANT (OSP) PATHWAYS CAN BE BROKEN DOWN INTO THE FOLLOWING ITEMS, MAINTENANCE HOLES, HAND HOLES, PULLBOXES, AND CONDUITS.

a. WHILE ENTERING MAINTENANCE HOLES, HAND HOLES, PULLBOXES, FOLLOW ALL CODES AND SAFETY PRACTICES OF A "CONFINED SPACE". UTILIZE NECESSARY EQUIPMENT TO MAINTAIN ALL SAFE PULLING TENSIONS FOR THE CABLES TO BE INSTALLED. THIS INFORMATION CAN BE FOUND ON THE CABLE MANUFACTURER'S SPECIFICATIONS SHEETS.

b. BEFORE EXITING THE MAINTENANCE HOLE, HAND HOLE, PULLBOX, NOTE ON PAPER OR DIGITAL MEANS THE EXISTING AND NEW CABLE(S) LOCATION(S) AND ROUTE(S), AND PROVIDE A "BUTTERFLY" PRINT TO AHJ AND OWNER'S REPRESENTATIVE. LABEL THE INSTALLED MEDIA PER SPECIFICATIONS.

c. WITH DIRECTION OF OWNER OR OWNER'S REPRESENTATIVE, CHOOSE AND PROVE ALL CONDUITS BEFORE THE INSTALLATION OF THE MEDIA. MEASURE ALL PATHWAYS WITH MULE-TAPE PRIOR TO ORDERING MATERIAL. ALL LABOR AND MATERIAL COSTS ASSOCIATED WITH DISCREPANCIES BETWEEN DRAWINGS AND VERIFIABLE SITE CONDITIONS SHALL BE BORNE BY CONTRACTOR. COORDINATE WITH THE ELECTRICAL OR GENERAL CONTRACTOR (EC OR GC), IF CONDUITS ARE PLUGGED OR MISSING PULL ROPE.

d. TRAIL ALL BACKBONE MEDIA (I.E. COPPER, FIBER OR INNERDUCT) WITH A 3/8" YELLOW POLY-NYLON ROPE, LABEL THE ROPE, AND TIE OFF EITHER END, FOR FUTURE INSTALLATIONS.

e. PROVIDE AND INSTALL ALL HARDWARE NECESSARY TO SUPPORT THE CABLING TO THE WALLS OF THE MAINTENANCE HOLE, HAND HOLES, PULLBOX. (IF IT DOES NOT ALREADY EXIST) THIS HARDWARE IS TO BE CONSTRUCTED FOR THE AREA IT IS TO BE INSTALLED AND DESIGNED FOR THE PURPOSE INTENDED FOR ITS USE.

f. SCS AND/OR LV CONTRACTOR TO PROVIDE EXPANSION PLUGS IN ALL DUCTS/CONDUITS ENTERING THE BUILDING. SEAL ALL UNUSED DUCTS/CONDUITS WITH PLUGS THAT ALLOW THE PULL-STRING TO BE TIED OFF ON THE INSIDE.

6. INSIDE PLANT (ISP) PATHWAYS CAN BE BROKEN DOWN INTO THE FOLLOWING ITEMS, HOLLOW WALL PENETRATION, MEMBRANE PENETRATION, ACCESSIBLE CEILING (I.E. "J" HOOKS), AND CONDUIT. 7. CABLE RACEWAYS AND CONDUITS SHALL NOT BE FILLED GREATER THAN THE CEC 2017, ARTICLE 725 AND BICSI RECOMMENDED FILL FOR THE PARTICULAR RACEWAY OR CONDUIT SIZE FOR CLASS 2/3 WIRE/CABLE.

a. CONDUIT AND PATHWAY ROUTING SHOWN FOR THE SCS AND LV SYSTEMS ARE STRICTLY DIAGRAMMATICAL FOR THE PURPOSE OF THE BID TO ILLUSTRATE GENERAL METHODOLOGY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE BEST MEANS & METHODS FOR SCS & TECHNOLOGY CONDUIT AND PATHWAY INSTALLATION. ADDITIONALLY IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE INSTALLATION PLAN WITH THE OWNERS REPRESENTATIVE AND ALL TRADES PRIOR TO INSTALLATION. REFER TO PLANS AND GENERAL ELECTRICAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

b. CONDUIT PATHWAYS SHALL BE SUPPLIED BY THE ELECTRICAL OR GENERAL CONTRACTOR AS PER THE DRAWINGS, OTHER CONDUITS (IF ANY) MAY NEED TO BE COORDINATED WITH THE EC AND/OR GC OF THE PROJECT.

c. NO CABLE IS TO BE PULLED THROUGH A CONDUIT L-BEND "LB" (CONDULETS).

d. ALL EXPOSED CONDUIT AND HARDWARE SHALL BE PAINTED TO MATCH SURROUNDING SURFACES. CONTRACT DISTRICT REPRESENTATIVE FOR PAINT COLORS.

e. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.

f. TERMINATE CONDUIT STUBS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2"-3" ABOVE THE FLOOR SURFACE.

g. INSTALL BUSHINGS AND BELL ENDS AS REQUIRED ON ALL CONDUITS.

h. FLEX CONDUIT IS UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND/OR IF APPROVED IN WRITING BY THE ENGINEER.

i. ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE ELECTRICAL SPECIFICATIONS, DETAILS AND PLANS FOR ADDITIONAL CONDUIT SEALING REQUIREMENTS.

j. PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.

k. REINSTALL PULL-STRINGS IN ALL SCS AND LV ISP PATHWAYS AFTER USE TO FACILITATE FUTURE ADDITION OF CABLES.

l. IT IS THE SCS AND/OR LV CONTRACTOR'S RESPONSIBILITY TO REPORT ANY UNUSABLE OR INADEQUATE CONDUIT RUNS TO THE OWNER PRIOR TO PULLING ANY CABLE.

m. PULL BOXES ARE NOT TO BE USED IN LIEU OF A BEND, AND THE CONDUIT SHALL EXIT A PULLBOX ON THE WALL OPPOSITE THE WALL ENTERED.

n. CONDUITS SHALL; • CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.) • CONTAIN NO MORE THAN (2) 90° BENDS OR (1) REVERSE BEND WITHOUT INSTALLING A PULLBOX SIZED PER STANDARDS & CODE. • SPLIT CONDUITS IN PLACE OF PULLBOXES ARE UNACCEPTABLE.

o. CONDUIT BEND RADIUS SHALL BE;
- A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2" IN DIAMETER OR LESS.
- A MINIMUM OF10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2" IN DIAMETER.

p. POWER SEPARATION:
- THE CONTRACTOR SHALL NOT PLACE ANY DISTRIBUTION CABLING ALONGSIDE POWER LINES, OR SHARE THE SAME CONDUIT, CHANNEL OR SLEEVE WITH ELECTRICAL APPARATUS. AT NO POINT SHALL THE COMMUNICATIONS CABLES BE TIED TO POWER CABLES OR OTHER BUILDING SERVICES. STATION CABLES AND TIE CABLES INSTALLED WITHIN CEILING SPACES SHALL BE ROUTED THROUGH THESE SPACES AT RIGHT ANGLES TO ELECTRICAL POWER CIRCUITS.
- AVOID ELECTROMAGNETIC INTERFERENCE (EMI) BY MAINTAINING ADEQUATE PHYSICAL SEPARATION BETWEEN TECHNOLOGY CABLING AND POSSIBLE SOURCES SUCH AS, BUT NOT LIMITED TO, ELECTRIC MOTORS, ELECTRIC PENCIL SHARPENERS, TRANSFORMERS, FLUORESCENT LIGHTS THAT SHARE DISTRIBUTION SPACE WITH TELECOMMUNICATIONS CABLING, COPIERS THAT SHARE WORK AREA SPACE WITH LINE CORDS AND TERMINALS, LARGE FAX MACHINES AND POWER CORDS THAT SUPPORTS SUCH EQUIPMENT.

## PROJECT CODES AND STANDARDS:

PARTIAL LIST OF APPLICABLE CODES AND STANDARDS EFFECTIVE : JANUARY 1, 2023

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)

2022 CALIFORNIA BUILDING CODE (CBC)

2022 CALIFORNIA ELECTRICAL CODE (CEC)

2022 CALIFORNIA ENERGY CODE

2022 CALIFORNIA FIRE CODE (CFC)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

2022 CALIFORNIA REFERENCED STANDARDS CODE

2022 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE, NATIONAL FIRE PROTECTION ASSOCIATION

## TECHNOLOGY DESIGN TEAM


DESINGER:
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## CONTRACTOR SUBMITTALS:

(SHOP DRAWINGS / PRODUCT SUBMITTALS / QUALIFICATIONS)

1. ORDERING AND INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL THE FOLLOWING:

a. CONTRACTOR FURNISHED SHOP DRAWINGS (SEE BELOW FOR LISTED SHOP DRAWING REQUIREMENTS)

b. PRODUCT SUBMITTAL DOCUMENTS

c. APPLICABLE TRADES QUALIFICATION CERTIFICATIONS HAVE BEEN APPROVED BY THE SYSTEMS ENGINEER AND/OR ARCHITECT AND IF (A. APPLICABLE, APPROVED BY THE DIVISION OF THE STATE ARCHITECT).

2. ANY DESIGN AND/OR INSTALLATION DISCREPANCIES/CHANGE ORDERS/REWORK (INCLUDING LABOR AND MATERIALS) INCURRED BEFORE OR AFTER CONTRACTOR FURNISHED SHOP DRAWINGS HAVE BEEN APPROVED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR INSTALLATION SHOP DRAWINGS

1. IT SHALL BE UNDERSTOOD THAT THE DRAWINGS, DETAILS, AND ONE-LINES PROVIDED WITH THE DESIGN PACKAGE ARE DIAGRAMMATIC. DATA PRESENTED ON DESIGN DRAWINGS ARE AS ACCURATE AS PRELIMINARY SURVEYS AND PLANNING CAN DETERMINE UNTIL FINAL EQUIPMENT SELECTION IS MADE. ACCURACY IS NOT GUARANTEED AND FIELD VERIFICATION, OF ALL DIMENSIONS, ROUTING, ETC., BY THE CONTRACTOR IS REQUIRED.

2. DRAWINGS ARE PROVIDED TO SHOW THE INTENT OF THE DESIGN AND SPECIFICATION AND TO ASSIST THE CONTRACTOR IN SUBMITTING A BID. CONTRACTOR IS DIRECTED TO MAKE FIELD SURVEYS AS PART OF HIS WORK PRIOR TO SUBMITTING SYSTEM LAYOUT DRAWINGS (SHOP DRAWINGS). THE CONTRACTOR SHALL MAKE ALLOWANCE IN THE PROPOSAL TO COVER WHATEVER WORK IS REQUIRED TO COMPLY WITH THE INTENT OF THE DESIGN AND PROVIDE A FULLY FUNCTIONING COMPLETE, OPERABLE, AND INTEGRATED SYSTEM.

3. IN CASE OF DOUBT OF WORK INTENDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST INSTRUCTIONS FROM THE ENGINEER OR OWNER PRIOR TO BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE, OPERABLE, AND INTEGRATED FUNCTIONING SYSTEM.

4. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED CONTRACTOR FURNISHED SHOP DRAWINGS (IN AUTOCAD 2010/ OR SIMILAR PROFESSIONAL DRAWING FORMAT) AND PRODUCT SUBMITTALS HAVE BEEN APPROVED BY THE DESIGNER AND/OR ARCHITECT AND IF (A. APPLICABLE, APPROVED BY THE DIVISION OF THE STATE ARCHITECT).

5. ANY AND ALL DESIGN AND/OR INSTALLATION DISCREPANCIES, CHANGE ORDERS, (INCLUDING LABOR, MATERIALS, AND SHIPPING) INCURRED WITHOUT CONTRACTOR SHOP DRAWINGS OR AFTER CONTRACTOR SHOP DRAWINGS HAVE BEEN APPROVED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

6. ANY WORK PERFORMED WITHOUT APPROVED CONTRACTOR FURNISHED SHOP DRAWINGS AND SUBMITTALS SHALL NOT BE ALLOWED. IF WORK PERFORMED PRIOR TO APPROVE SHOP DRAWINGS, CONTRACTOR WILL DO SO AT THEIR OWN RISK.

7. ANY PRODUCTS THAT HAVE DEVIATED FROM THE SPECIFICATION OR DRAWINGS SHALL BE FLAGGED AS "SUBSTITUTION REQUEST".

## TECHNOLOGY GENERAL NOTES:

1. ALL STRUCTURED CABLING SYSTEM (SCS) & LOW VOLTAGE (LV) CABLING USED THROUGHOUT THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS AS OUTLINED IN THE STANDARDS, CODES AND LOCAL REGULATIONS FOR THE FOLLOWING: ANSI/TIA-568-C, ANSI/TIA-569-D, ANSI/TIA-606-B, ANSI/TIA-607-B, BICSI TDMM (CURRENT VERSION), CEC ARTICLE 90, ARTICLE 300, CEC ARTICLE 645, CEC ARTICLE 646, CEC ARTICLE 725, CEC ARTICLE 760, CEC ARTICLE 770, CEC ARTICLE 800, CEC ARTICLE 830. THE SCS & TECHNOLOGY SYSTEM(S) MUST MEET ALL LOCAL AND OTHER PREVAILING CODES.

2. ALL SCS & LV CABLING SHALL BEAR UL LISTED TYPE CMP (PLENUM RATED) AND/OR CM/G (GENERAL PURPOSE) AND/OR CMR (RISER RATED). ALL FIBER OPTIC CABLING SHALL BEAR OFNP (PLENUM RATED) AND/OR OFNR (RISER RATED) AND/OR OFN/G (GENERAL PURPOSE). THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATELY RATED CABLE FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.

3. ALL INSTALLATION SHALL BE DONE IN CONFORMANCE WITH ANSI/TIA-568-C STANDARDS AND MANUFACTURERS INSTALLATION GUIDELINES. THE CONTRACTOR SHALL ENSURE THAT THE CABLE'S MINIMUM BEND RADIUS AND, MAXIMUM PULLING TENSIONS OF THE SPECIFIED DISTRIBUTION CABLES ARE NOT EXCEEDED. THE CABLE BENDS MUST MAINTAIN THE PROPER RADIUS DURING THE PLACEMENT OF THE FACILITIES. FAILURE TO FOLLOW THE APPROPRIATE GUIDELINES WILL REQUIRE THE CONTRACTOR TO PROVIDE, IN A TIMELY FASHION, ANY ADDITIONAL MATERIAL AND LABOR NECESSARY TO PROPERLY RECTIFY THE SITUATION TO THE SATISFACTION AND WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE. THIS SHALL ALSO APPLY TO ANY AND ALL DAMAGES SUSTAINED TO THE CABLES BY THE CONTRACTOR DURING THE IMPLEMENTATION.

4. ALL SCS AND/OR LV INSTALLATIONS SHALL BE PERFORMED BY QUALIFIED TECHNICIANS FOR THAT SYSTEM. THE LABOR EMPLOYED BY THE CONTRACTOR SHALL BE REGULARLY EMPLOYED IN THE INSTALLATION AND REPAIR OF SCS AND/OR LV SYSTEMS AND SHALL BE ACCEPTABLE TO THE OWNERS REPRESENTATIVE TO ENGAGE IN THE INSTALLATION AND SERVICE OF THIS SYSTEM.

5. THE MDF AND IDF SPACES ARE DESCRIBED BELOW, AND ENCOMPASS THE AREAS THE COMMUNICATIONS CABLING EXISTS IN. THESE AREAS INCLUDE (BUT NOT LIMITED TO) THE BACKBOARDS, CABINETS, RACKS, FRAMES, LADDER RACKS, TERMINATION FIELDS, AND PATCH CORDS. (WALL AND RACK TYPES FOR COPPER AND FIBER). THE SCS CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE STANDARDS, CODES AND LOCAL REGULATIONS FOR THESE SPACES, (E.G. ANSI/TIA-568-C, ANSI/TIA-569-D, ANSI/TIA-606-B, ANSI/TIA-607-B , BICSI TDMM (CURRENT VERSION), CEC ARTICLE 90, ARTICLE 300, CEC ARTICLE 645, CEC ARTICLE 646, CEC ARTICLE 725, CEC ARTICLE 770, CEC ARTICLE 800, CEC ARTICLE 830.

6. THE WIRING OF THE SYSTEM SHALL BE EXECUTED IN ACCORDANCE WITH THE DRAWINGS AND THE EQUIPMENT MANUFACTURER'S WIRING DIAGRAMS. SHOULD ANY VARIATIONS IN THESE REQUIREMENTS OCCUR, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE BEFORE MAKING ANY CHANGES. IT SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER - AUTHORIZED INSTALLER OF THE APPROVED EQUIPMENT TO INSTALL THE EQUIPMENT AND GUARANTEE THE SYSTEM TO OPERATE AS PER PLANS AND SPECIFICATIONS.

7. ALL MATERIALS SHALL BE NEW. NO USED OR RE-MANUFACTURED PARTS OR COMPONENTS SHALL BE ACCEPTED.

8. CABLE STORAGE: THE CONTRACTOR SHALL NOT ROLL OR STORE CABLE REELS WITHOUT AN APPROPRIATE UNDERLAY AND THE PRIOR WRITTEN APPROVAL OF OWNERS REPRESENTATIVE.

9. SPECIAL EQUIPMENT AND TOOLS: IN ORDER TO ENSURE THE LEAST AMOUNT OF CABLE UNTWISTING, IT IS REQUIRED THAT ALL CABLES SHALL BE STRIPPED USING A CABLE MANUFACTURER'S RECOGNIZED SPECIAL TOOL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH ANY SPECIAL INSTALLATION EQUIPMENT OR TOOLS NECESSARY TO PROPERLY COMPLETE THE SYSTEM. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, TOOLS FOR TERMINATING CABLES, TESTING AND SPLICING EQUIPMENT FOR COPPER/FIBER CABLES, COMMUNICATION DEVICES, JACK STANDS FOR CABLE REELS, OR CABLE WINCHES.

10. UNDER NO CIRCUMSTANCE ARE "CHANNEL LOCKS" OR OTHER PLIERS NOT DESIGNED BY THE SCS MANUFACTURE TO BE USED TO TERMINATE WAO JACKS.

## TECHNOLOGY SHEET INDEX


| SHEET NO. | SHEET TITLE |
|---|---|
| T0.01 | TECHNOLOGY ABBREVIATIONS, AND NOTES |
| T0.02 | TECHNOLOGY SYMBOL AND LEGEND |
| T0.03 | TECHNOLOGY DETAILS |
| T1.00 | TECHNOLOGY SITE PLAN |
| T3.10 | TECHNOLOGY FLOOR PLAN – CLASSROOM BLDG A |
| T3.11 | TECHNOLOGY FLOOR PLAN – CLASSROOM BLDG B |
| T3.12 | TECHNOLOGY FLOOR PLAN – CLASSROOM BLDG C |
| T3.13 | TECHNOLOGY FLOOR PLAN – CLASSROOM BLDG D |
| T4.10 | TECHNOLOGY RISER DIAGRAM |


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1209 Pleasant Grove Blvd.
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p 916-771-0778
www.lpengineers.com
Job #: 22-2198


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

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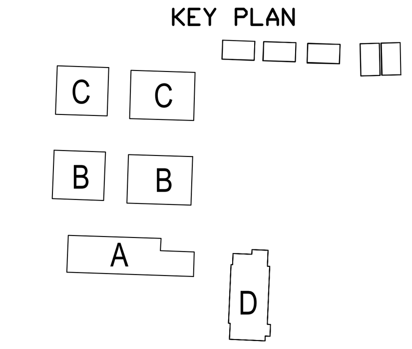
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

# TECHNOLOGY ABBREVIATIONS AND NOTES

Date 04/24/2023
Project Number 22025
Application Number 01-120630
Drawing Number T0.01
Drawn RT (LPCE) Checked CPCE

## SYMBOL KEYNOTES AND IDENTIFIERS

| SYMBOL | DESCRIPTIONS |
|---|---|
| X | NUMBERED SHEET NOTE. APPLIES TO SHEET ON WHICH NOTE IS FOUND ONLY. |
| DETAIL NUMBER / X / X.XX / SHEET NUMBER | ELEVATION REFERENCE - REFER TO ELEVATION AS NOTED IN REFERENCE CALL-OUT |
| DETAIL NUMBER / X / X.XX / SHEET NUMBER | SECTION REFERENCE - REFER TO SECTION AS NOTED IN REFERENCE CALL-OUT |
| DETAIL NUMBER / X / X.XX / SHEET NUMBER | DETAIL REFERENCE OR CALL-OUT |

## TECHNOLOGY SYMBOL LEGEND:

ALL NOTES ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS

| MARK | SYMBOL | DESCRIPTION | BACK BOX | PLASTER RING | MOUNTING HEIGHT | CONDUIT | MANUFACTURER | PART NUMBER / MODEL | MAX. LOAD | INSTALLATION NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MDF | MAIN DISTRIBUTION FRAME | N/A | N/A | V.I.F. | N/A | EXISTING | EXISTING | N/A | N/A |
| 2 | IDF | INTERMEDIATE DISTRIBUTION FRAME | N/A | N/A | V.I.F. | N/A | EXISTING | EXISTING | N/A | N/A |
| 3 | 2 WP/BMS | WEATHER PROOF DATA OUTLET | 5" SQ., 2-1/8" DEEP | 2-DEVICE | +16" TO BOTT. | 1 EA. 1"C | LEVITON | CAT6A: 11140627 JACK: 6110G-R*6 | N/A | N/A |
| 4 | 2 LCP | DATA OUTLET | 5" SQ., 2-1/8" DEEP | 2-DEVICE | +16" TO BOTT. | 1 EA. 1"C | LEVITON | CAT6A: 11140627 JACK: 6110G-R*6 | N/A | N/A |
| 5 | PB | 12X12X4 PULL BOX | N/A | N/A | N/A | N/A | LEVITON | N/A | N/A | N/A |
| 6 | UP ○ ● DOWN | CONDUIT UP / DOWN | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 7 | ## / ## | TRANSITION ELEVATION MARK UP | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 8 | ——— | CONDUIT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

NOTES:
1. USE EXTENSION RINGS IF NEEDED, ON ALL LOCATIONS.
2. REFERENCE EIA/TIA STANDARDS.
3. ROUTE CONDUIT INWALL TO NEAREST TO ACCESSIBLE CEILING SPACES.

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REVISION HISTORY

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DRAWING STATUS

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

KEY PLAN




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2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
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TECHNOLOGY SYMBOL AND LEGEND

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | T0.02 |
| Drawn / Checked | |
| RE (LPCE) / DRCE | |

NOT USED

NOT USED

NOT USED

NOT USED

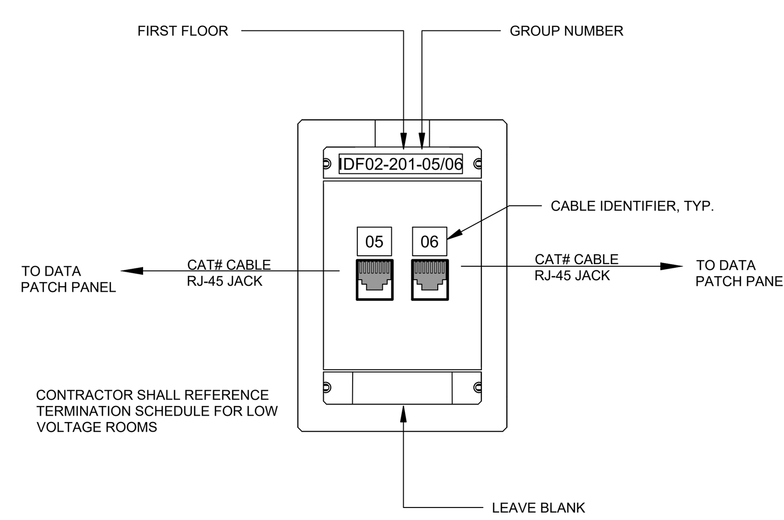
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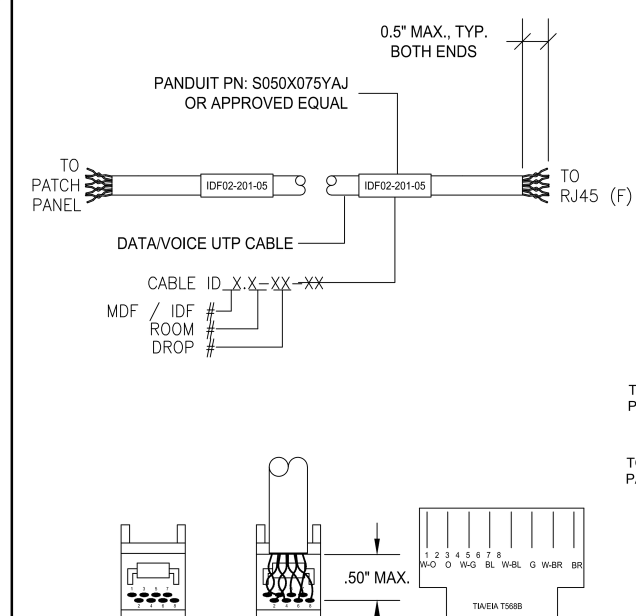
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**2-PORT RJ45 JACK FACE PLATE END POINT**

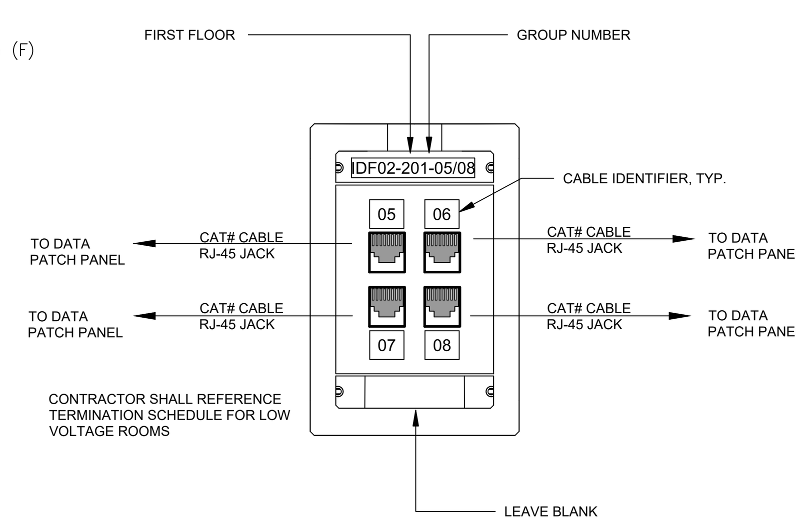



**DATA 2-PORT WORKSTATION FACE PLATE & JACK LAYOUT**

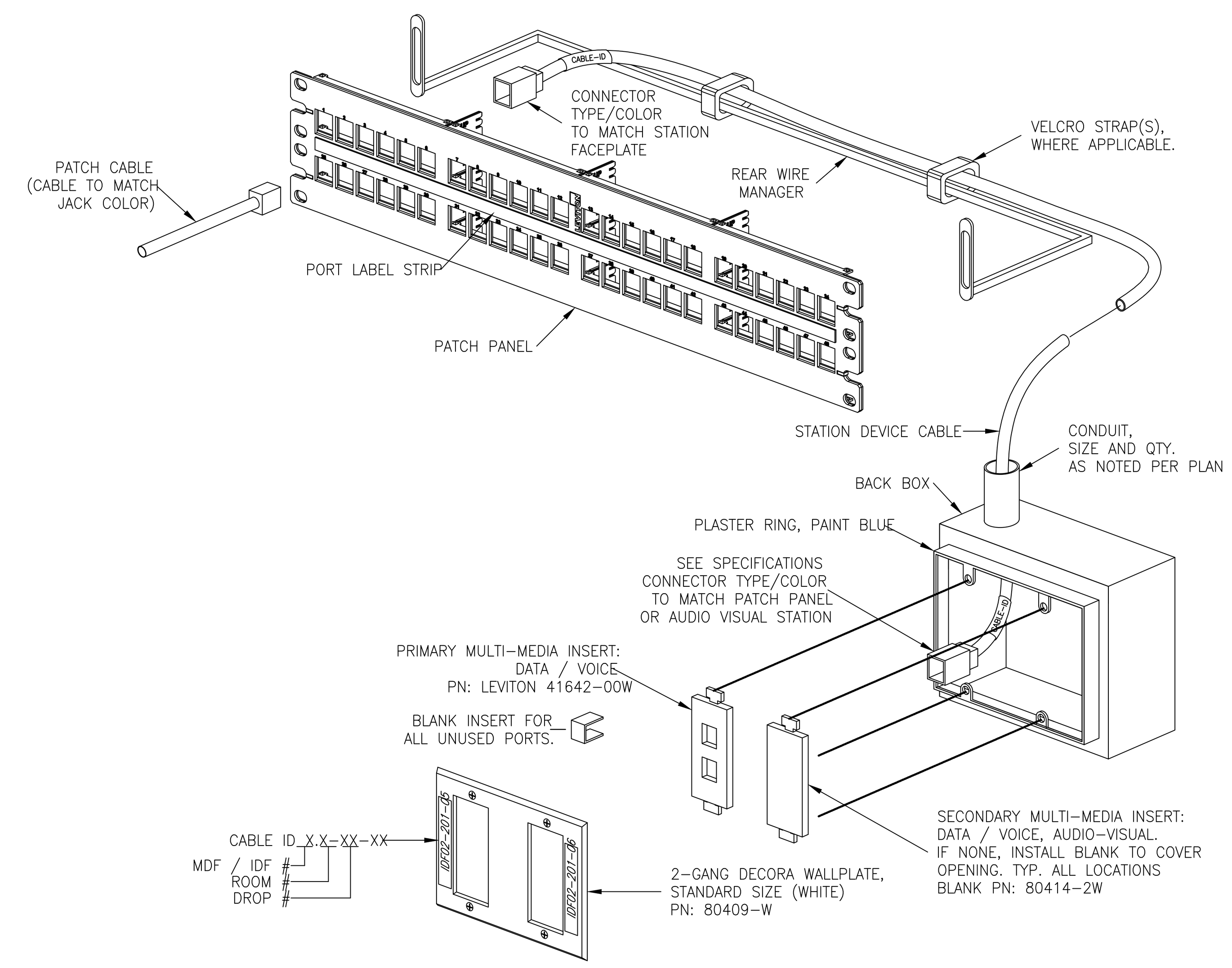



**DATA/VOICE CABLE LABELING - AT JACK AND PATCH PANEL**

**4-PORT RJ45 JACK FACE PLATE END POINT**

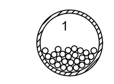



**DATA 4-PORT WORKSTATION FACE PLATE & JACK LAYOUT**

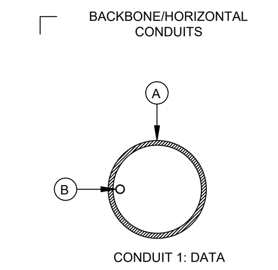



PATCH PANEL CONNECTION, 8P8C (RJ45) TERMINATION AND LABELING | SCALE: EDIT | 8

Ⓐ (1) EA. 1" CONDUIT
Ⓑ 1/2" NYLON MULE STRING, PN: NEPTCO WP900P



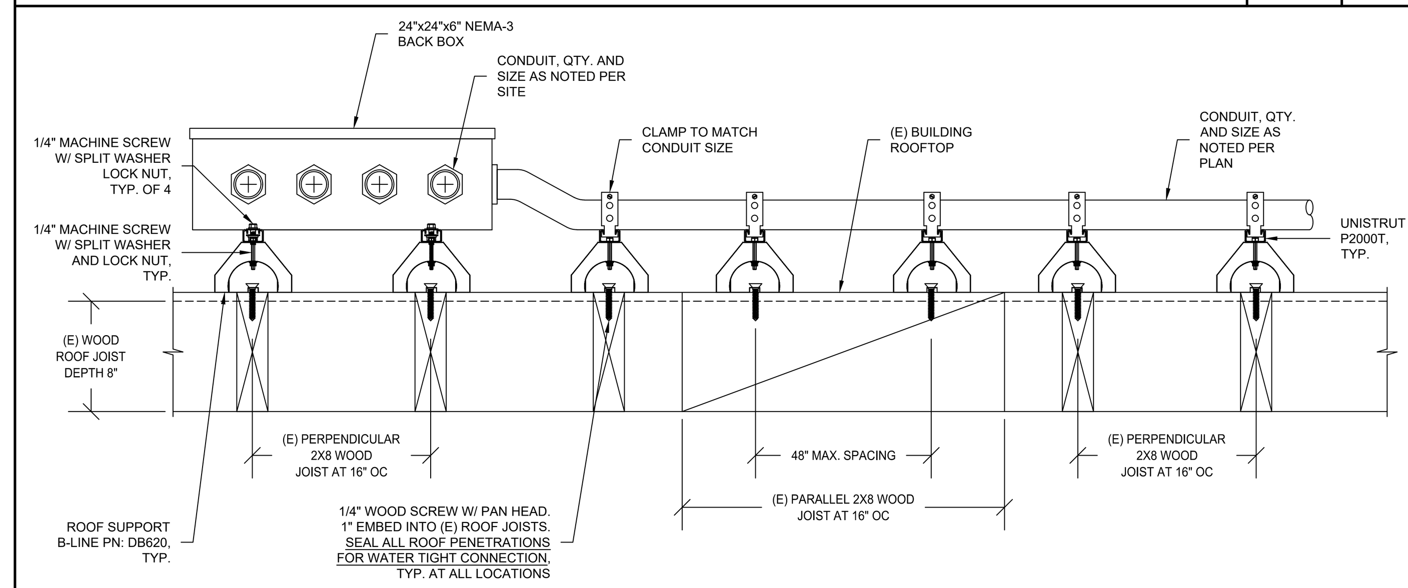
NOTE: AT ALL GROUND BOX, PULL BOX AND JUNCTION BOX LOCATIONS, THE ENDS OF CONDUITS SHALL BE PAINTED AND LABELED WITH A NUMBER. (SEE DETAIL FOR COLOR AND NUMBER).




| CONDUIT FILL CHART 40% FILL RATIO MAXIMUM | |
|---|---|
| CONDUIT DIA. | FILL RATIO (0.250" DIA.) |
| 1" | 6-CABLES |
| 1-1/4" | 10-CABLES |
| 2" | 26-CABLES |
| 4" | 102-CABLES |

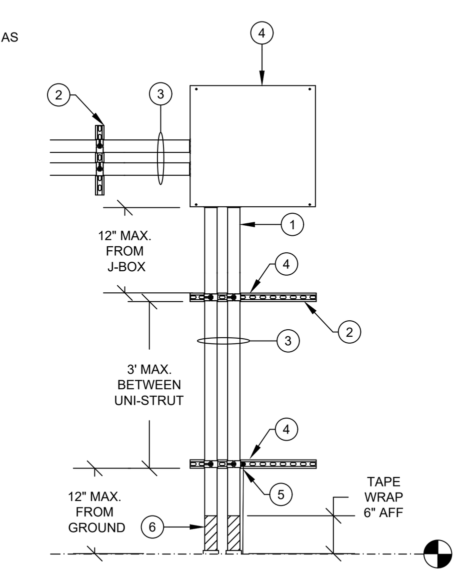
NOTE: CONTRACTOR SHALL BE REQUIRED TO UPSIZE CONDUIT AND/OR QTY AS NOTED PER FILL RATIO CABLE CAPACITY.

TECHNOLOGY CONDUIT LAYOUT, BACKBONE/HORIZONTAL PATHWAY | SCALE: N.T.S. | 1

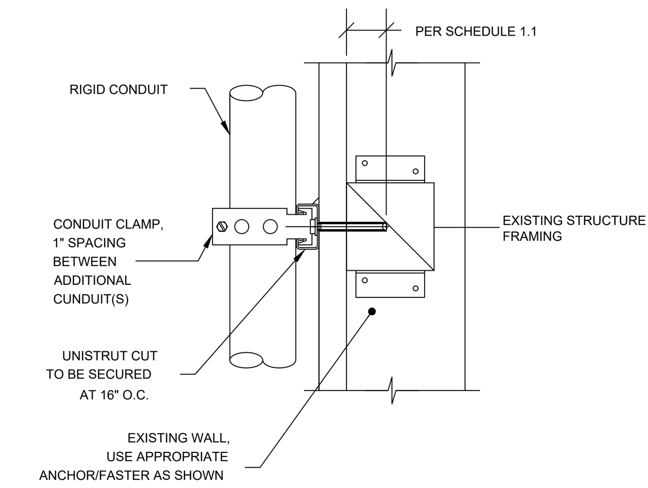



TECHNOLOGY CONDUIT AND BACK BOX ON (E) BUILDING ROOFTOP | SCALE: N.T.S. | 2

1. INSTALL CONDUIT AS CLOSE AS POSSIBLE AND TO ONE SIDE OF J-BOX TO ACCOMODATE FUTURE INSTALLATIONS
2. UNI-STRUT TO BE CUT THE SAME LENGTH AS J-BOX
3. RIGID CONDUIT
4. CAULKING ACCORDING TO FIRE RATING-TYPICAL
5. 10 AWG WIRE OR METAL TRACING TAPE PLACED ON TOP OF CONDUITS AND CONTINUOUS THROUGHOUT ENTIRE TRENCH LENGTH AND TERMINATING ON RISER UNISTRUT OR GROUNDING BAR IN GROUNDBOX.
6. FLEX BETWEEN RISER AND GROUND CONDUIT.




EXTERIOR PULL BOX W/ CONDUIT RISER | SCALE: N.T.S. | 6

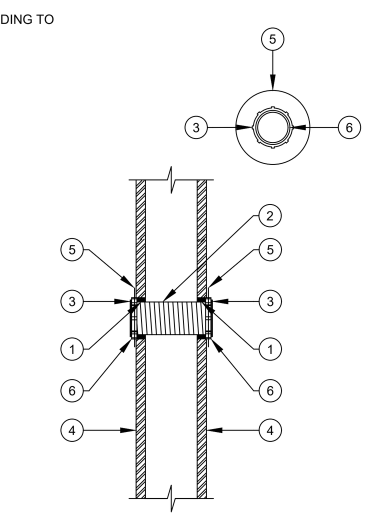



SCHEDULE 1.1

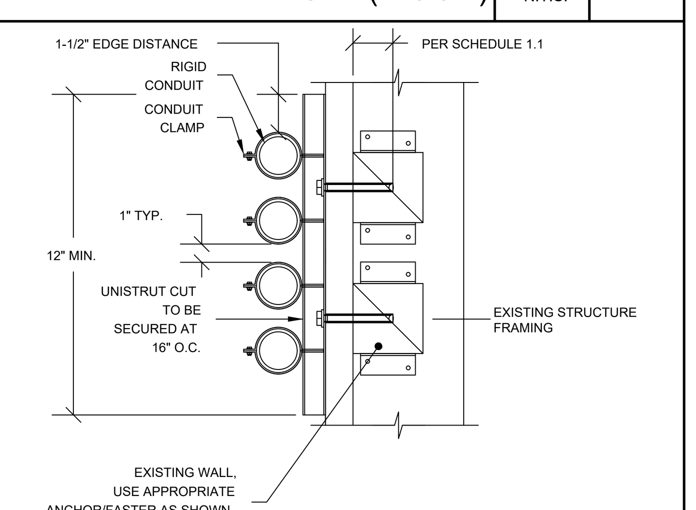
| WALL TYPE | ANCHOR/FASTERNER | MIN. EMBED |
|---|---|---|
| WOOD | 3/8" HEX LAG SCREW | 2" |

CONDUIT SUPPORT, VERTICAL (WOOD) | SCALE: N.T.S. | 3

1. DRAFT STOP OR FIRE CAULK ACCORDING TO WALL PENETRATION DETAILS
2. THREADED, RIGID, OR IMC CONDUIT
3. SCREW ON BUSHING
4. WALL
5. REDUCING WASHER OR PLATE
6. SCREW ON LOCKING RINGS FRONT & BACK (TYP.)



CONDUIT SLEEVE PENETRATION | SCALE: N.T.S. | 7




SCHEDULE 1.1

| WALL TYPE | ANCHOR/FASTERNER | MIN. EMBED |
|---|---|---|
| WOOD | 3/8" HEX LAG SCREW | 2" |

MULTIPLE-CONDUIT SUPPORT, VERTICAL (WOOD) | SCALE: N.T.S. | 4

NOT USED

NOT USED

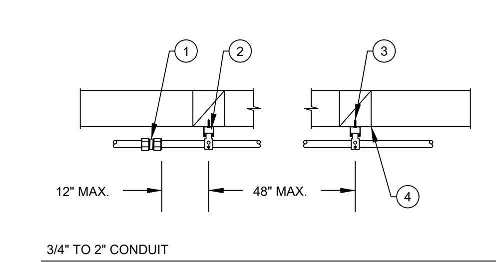
NOT USED

NOT USED

NOT USED

1. WEATHERPROOF COUPLING DEVICE BOX OR JUNCTION, TYP.
2. UNISTRUT P1000T, TYP.
3. 1/4" DIA. WOOD SCREW W/ HEX HEAD AND WASHER, 1-1/4" MIN. EMBED, 2-MIN. PER UNISTRUT CHANNEL
4. EXISTING STRUCTURE FRAMING

UNISTRUT UNIVERSAL PIPE CLAMP FOR 1/2" TO 2" CONDUIT :
- 1/2" - P1211 (16 GA)
- 3/4" - P1212 (16 GA)
- 1" - P1213 (16 GA)
- 1 1/4" - P1214 (14 GA)
- 1 1/2" - P1215 (14 GA)
- 2" - P1217 (14 GA)




CONDUIT STRAP SPACING (WOOD) | SCALE: N.T.S. | 5

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Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 22-2198


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

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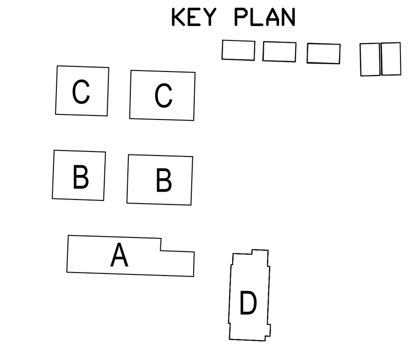
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

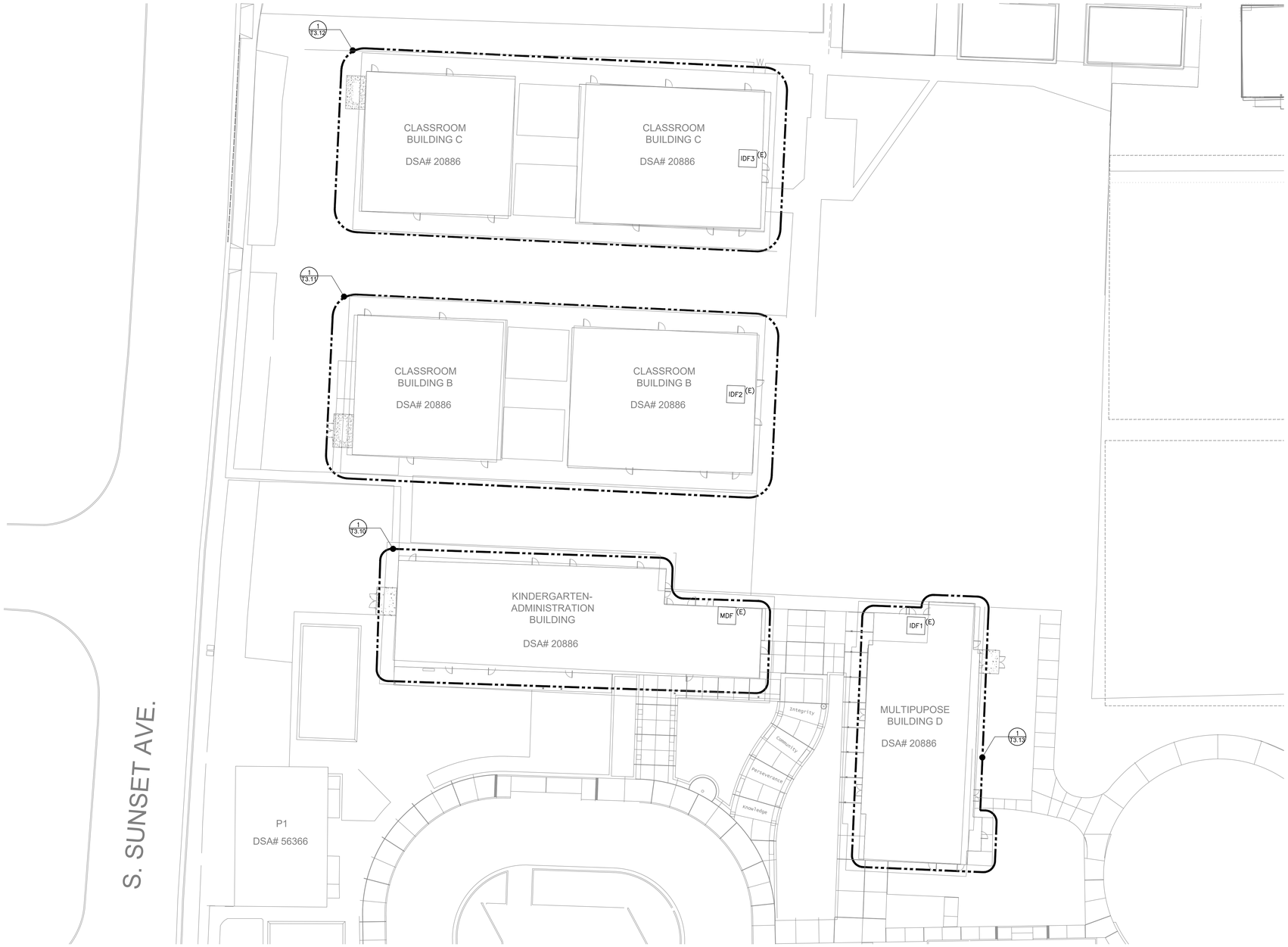
ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

# TECHNOLOGY DETAILS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | T0.03 |
| Drawn: RT (LPCE) | Checked: CPCE |

## GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS, PRIOR TO ANY WORKS, AND REPORT TO ENGINEERS ANY DISCREPANCIES.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING PLANS AND DIMENSIONS.
3. REFER TO ELECTRICAL DRAWINGS FOR ALL TECHNOLOGY POWER CIRCUIT REQUIREMENTS.
4. ALL EQUIPMENT SHOWN ON CONSTRUCTION DOCUMENTS IS TO BE NEW CONTRACTOR FURNISHED/CONTRACTOR INSTALLED UNLESS SPECIFIED ON DRAWINGS AND/OR SCHEDULES.
5. ALL EXPOSED CONDUITS SHALL BE PRIMED WHITE AND PAINTED TO MATCH THE SURROUNDING AREA.
6. NETWORK STATION CABLING SHALL BE TERMINATED IN THE PATCH PANEL(S) IN SEQUENTIAL ORDER OF ROOM NUMBER, DROP ID. CABLES SHALL BE MACHINE LABELED AT THE PATCH PANEL FACE, AND AT CATEGORY CABLE (BOTH ENDS AS SHOWN ON DETAILS/SPECIFICATIONS).




**TECHNOLOGY SITE PLAN** 1 (1" = 20')

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Job #: 22-2198


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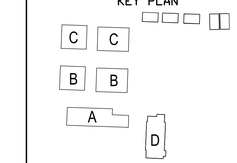
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

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

KEY PLAN




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SAN JOSE, CA 95127

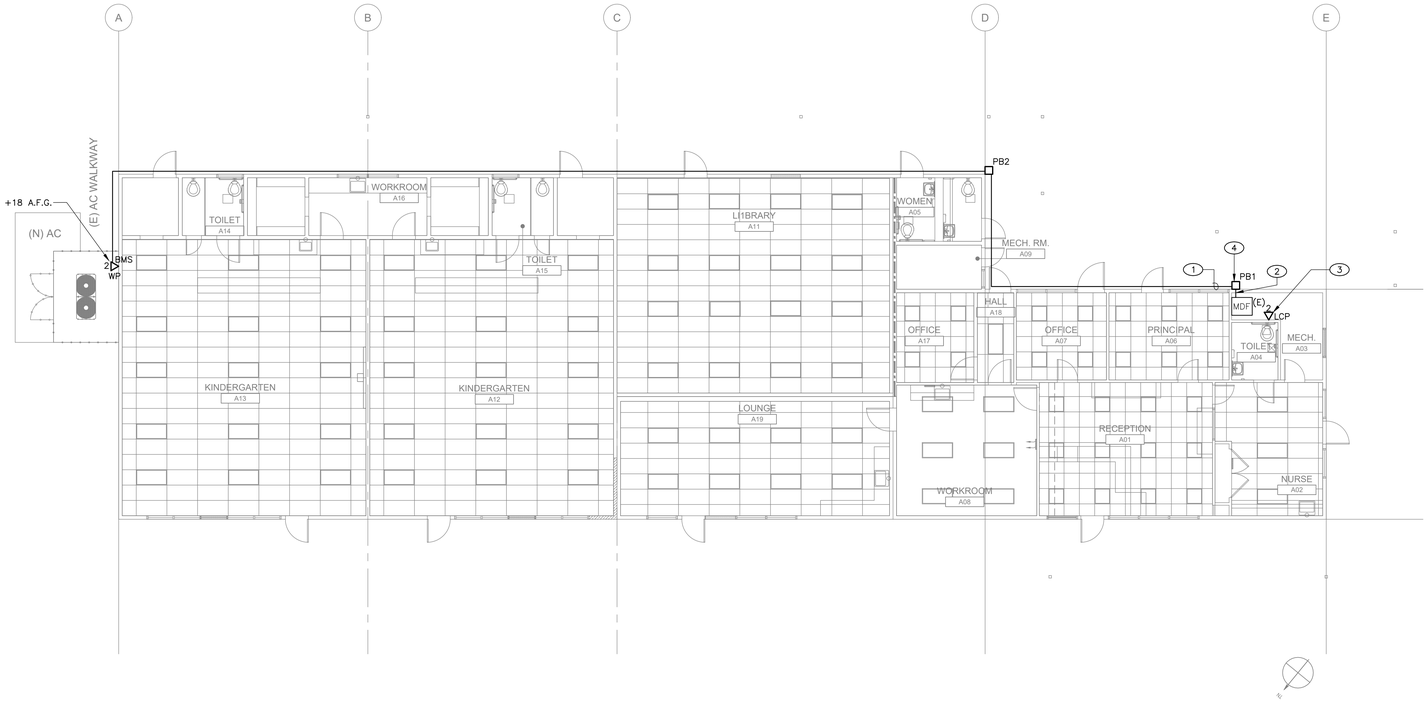
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TECHNOLOGY SITE PLAN

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | T1.00 |
| Drawn / Checked | |
| RTE (LPCE) / DRCE | |




**TECHNOLOGY FLOOR PLAN - KINDERGARTEN-ADMINISTRATION BUILDING** | **1**

1/8" = 1'-0"

## GENERAL NOTES

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## KEY NOTES

1. PROVIDE NEW (1) 1" CONDUIT UNDER THE SOFFIT FROM THE NEW BMS DATA DROP TO EXISTING MDF.
2. NEW 1 EA. 2" CONDUIT SLEEVE. CAULK AND SEAL ALL SLEEVE ROUGH-IN GAPS, AND OPENINGS IN ACCORDANCE WITH REQUIRED FIRE RATINGS.
3. PROVIDE NEW DATA DROPS WITH IN 3FT OF LIGHTING CONTROL PANEL.
4. NEW 12"x12"x6" NEMA3R WALL MOUNTED PULL BOX WITH HINGED LOCKING KEYED LID. CAULK AND SEAL EXTERIOR PULL BOX AT ALL EXTERIOR WALL FINISH EDGES AND BOX FASTENER LOCATIONS FOR WATER-TIGHT CONNECTION.





**MDF SITE CONDITION** | **2**

NTS

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Job #: 22-2198


| ARCHITECT | ENGINEER |
|---|---|
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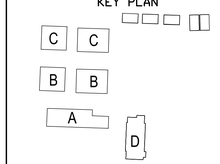
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

2930 GAY AVE.
SAN JOSE, CA 95127

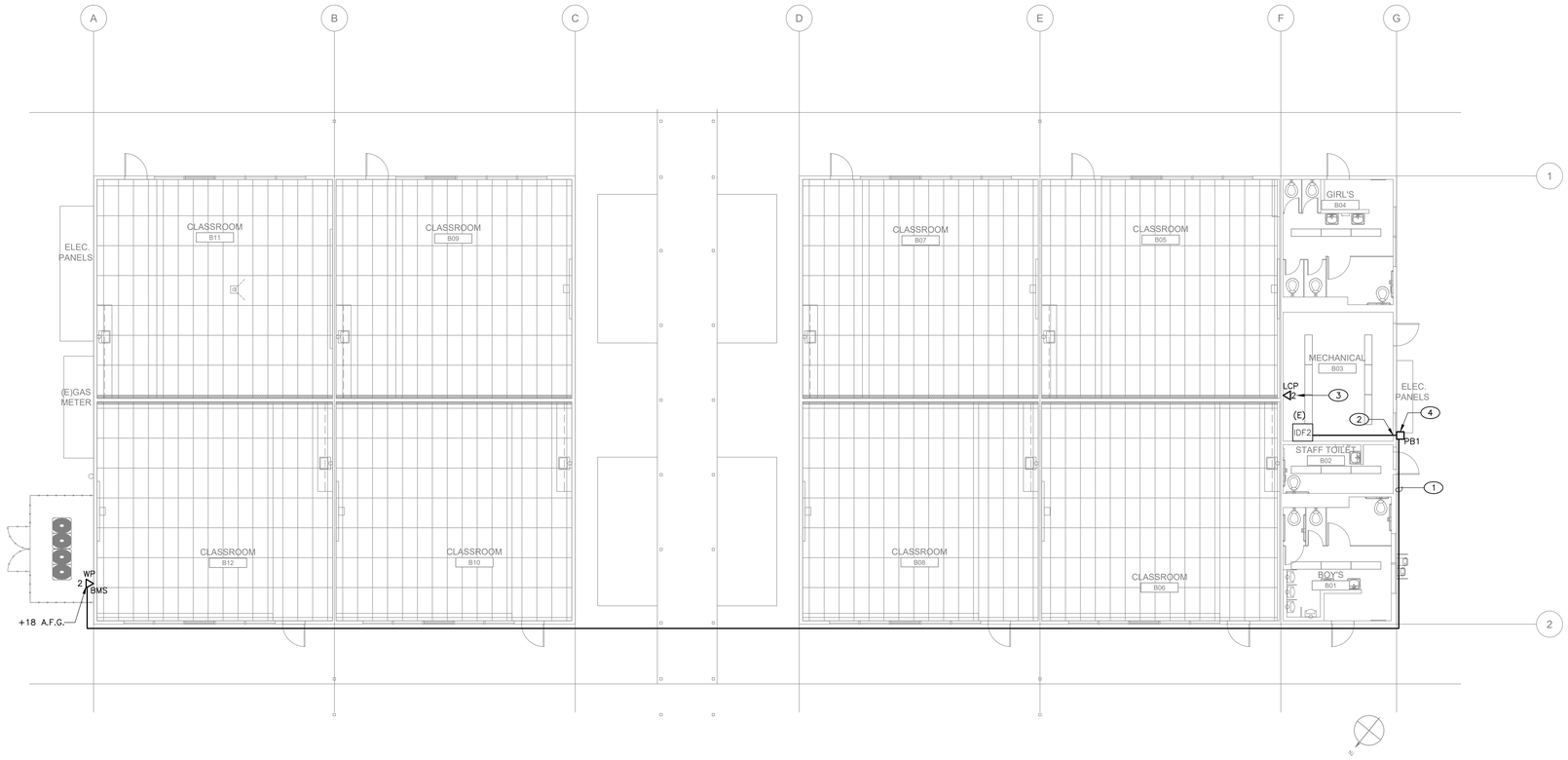
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

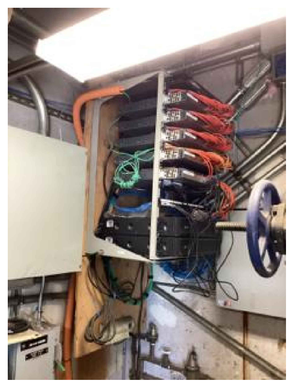
TECHNOLOGY FLOOR PLAN KINDER-ADMIN BLDG

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | T3.10 |
| Drawn / Checked | |
| RE (LPCE) / DRCE | |




## TECHNOLOGY FLOOR PLAN - BUILDING B | 1

1/8" = 1'-0"



## IDF SITE CONDITION | 2

NTS

## GENERAL NOTES

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4. NEW 12"x12"x6" NEMA3R WALL MOUNTED PULL BOX WITH HINGED LOCKING KEYED LID. CAULK AND SEAL EXTERIOR PULL BOX AT ALL EXTERIOR WALL FINISH EDGES AND BOX FASTENER LOCATIONS FOR WATER-TIGHT CONNECTION.

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

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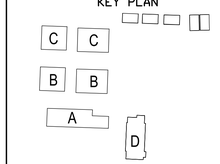
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN



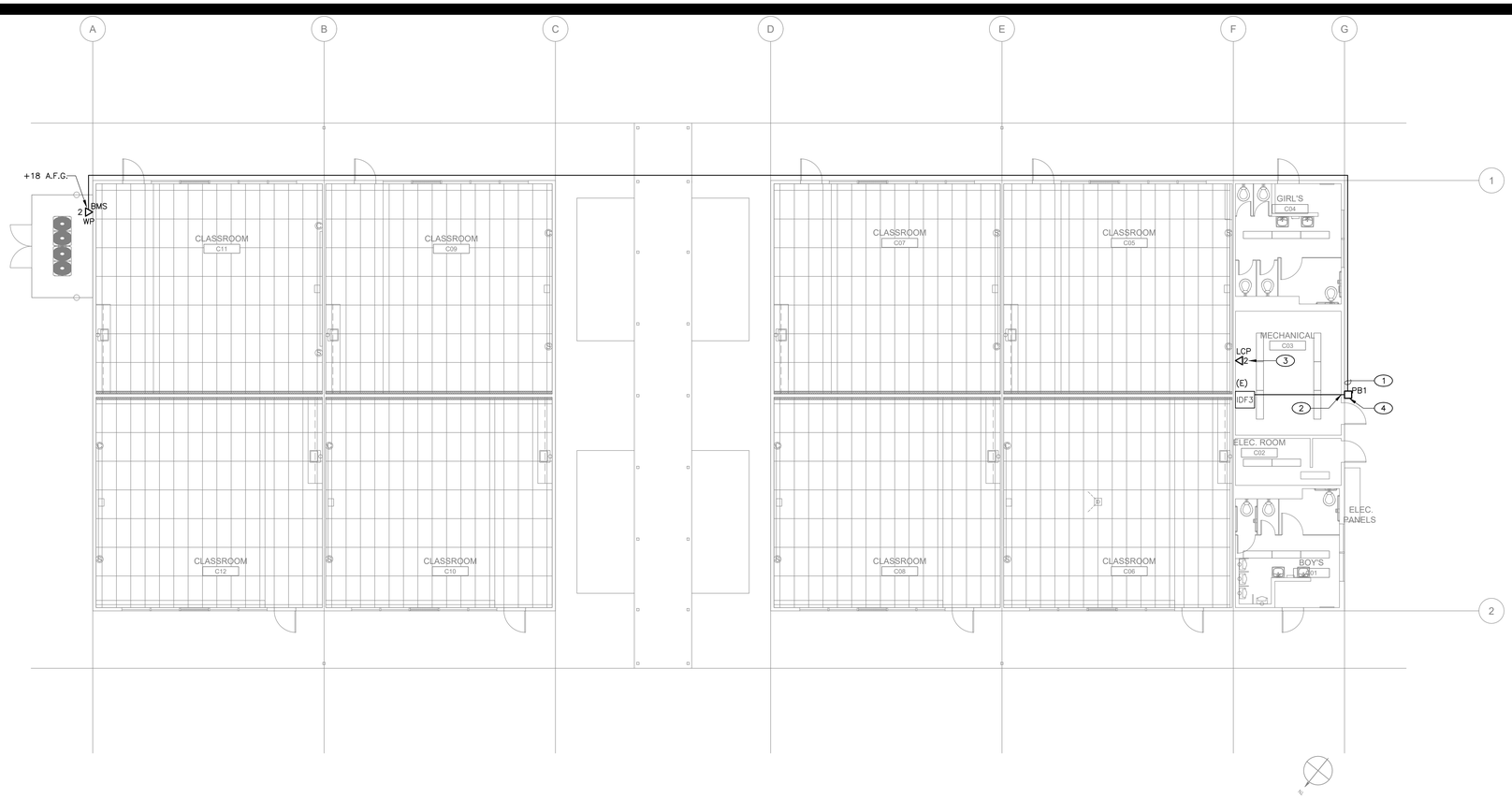

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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

TECHNOLOGY FLOOR PLAN BUILDING B

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | T3.11 |
| Drawn / Checked | |
| RE (LPCE) / DRCE | |




## TECHNOLOGY FLOOR PLAN - BUILDING C | 1

1/8" = 1'-0"



## IDF SITE CONDITION | 2

NTS

## GENERAL NOTES

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## KEY NOTES

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(2) NEW 1 EA. 2" CONDUIT SLEEVE. CAULK AND SEAL ALL SLEEVE ROUGH-IN GAPS, AND OPENINGS IN ACCORDANCE WITH REQUIRED FIRE RATINGS.

(3) PROVIDE NEW DATA DROPS WITH IN 3FT OF LIGHTING CONTROL PANEL.

(4) NEW 12"x12"x6" NEMA3R WALL MOUNTED PULL BOX WITH HINGED LOCKING KEYED LID. CAULK AND SEAL EXTERIOR PULL BOX AT ALL EXTERIOR WALL FINISH EDGES AND BOX FASTENER LOCATIONS FOR WATER-TIGHT CONNECTION.

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

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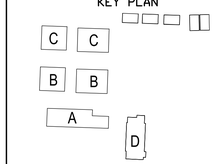
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT

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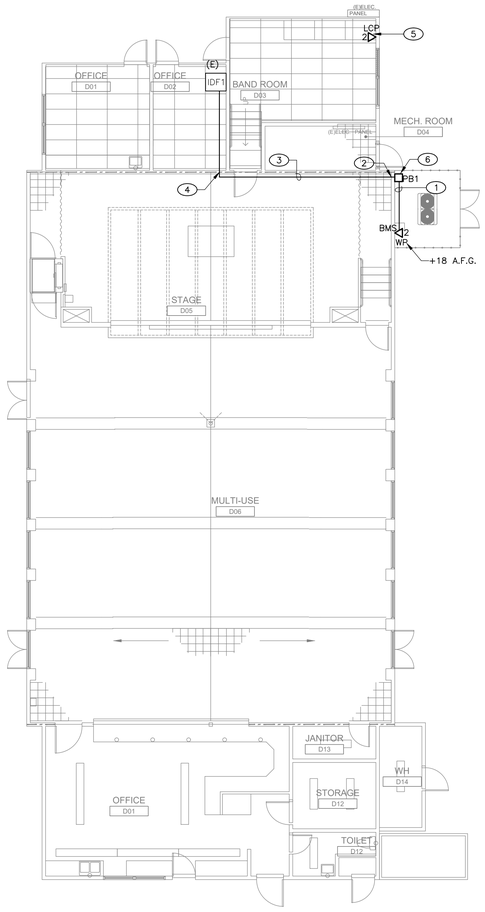
CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II

1970 CINDERELLA LN.,
SAN JOSE, CA 95116

TECHNOLOGY FLOOR PLAN BUILDING C

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | T3.12 |
| Drawn / Checked | |
| RE (LPCE) / DRCE | |




**TECHNOLOGY FLOOR PLAN - MULTIPURPOSE BUILDING D** **1**
1/8" = 1'-0"



**IDF SITE CONDITION** **2**
NTS

## GENERAL NOTES

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2. NEW 1 EA. 2" CONDUIT SLEEVE. CAULK AND SEAL ALL SLEEVE ROUGH-IN GAPS, AND OPENINGS IN ACCORDANCE WITH REQUIRED FIRE RATINGS.
3. PROVIDE NEW WIREMOLD 2300(AB).
4. REFER TO SHEET 7/T0.03 FOR PENETRATION DETAIL INFORMATION.
5. PROVIDE NEW DATA DROPS WITH IN 3FT OF LIGHTING CONTROL PANEL.
6. NEW 12"x12"x6" NEMA3R WALL MOUNTED PULL BOX WITH HINGED LOCKING KEYED LID. CAULK AND SEAL EXTERIOR PULL BOX AT ALL EXTERIOR WALL FINISH EDGES AND BOX FASTENER LOCATIONS FOR WATER-TIGHT CONNECTION.

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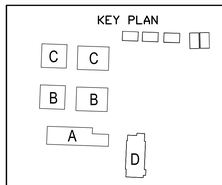
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| ○ CONSTRUCTION | |

KEY PLAN



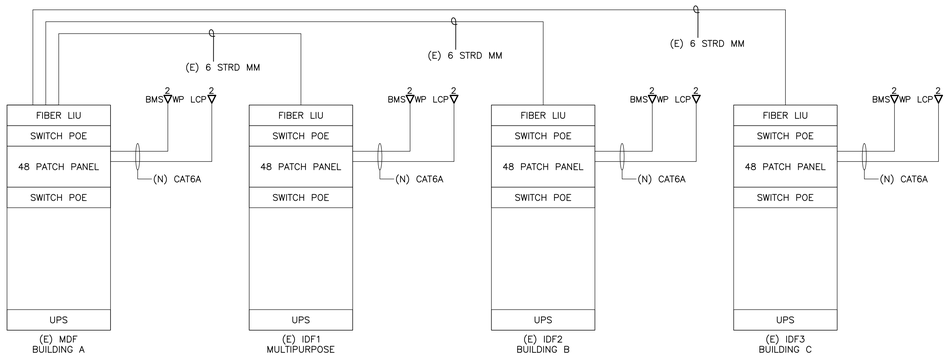

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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

TECHNOLOGY FLOOR PLAN BUILDING D

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | T3.13 |
| Drawn RE (LPCE) | Checked DRCE |




TECHNOLOGY RISER DIAGRAM | NTS | 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 |
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DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

ADELANTE ACADEMY II
1970 CINDERELLA LN.,
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TECHNOLOGY RISER DIAGRAM

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | T4.10 |
| Drawn / Checked | |
| RE (LPCE) / DRCE | |

## FIRE ALARM ABBREVIATIONS/SYMBOLS

| SYMBOL | DESCRIPTIONS | SYMBOL | DESCRIPTIONS |
|---|---|---|---|
| A | ABOVE CEILING | PAP | PRE-ACTION PANEL |
| AFF | ABOVE FINISHED FLOOR | PIV | POST INDICATE VALVE |
| AHJ | AUTHORITY HAVING JURISDICTION | (R) | RELOCATE / RELOCATED |
| ALM | ALARM | (RC) | EXISTING TO REMOVE AND COVER |
| ANN | ANNUNCIATOR | (RD) | EXISTING DEVICE TO BE RELOCATED |
| BMS | BUILDING MANAGEMENT SYSTEM | (RL) | RELOCATED DEVICE |
| C | CONDUIT | (RR) | REMOVE EXISTING & REPLACE WITH NEW |
| CBC | CALIFORNIA BUILDING CODE | SCC | STATUS COMMAND CENTER |
| CEC | CALIFORNIA ELECTRICAL CODE | SLC | SIGNALING LINE CIRCUIT |
| CFC | CALIFORNIA FIRE CODE | SMK | SMOKE |
| CM | CEILING MOUNTED | SUPV | SUPERVISORY |
| CD | CANDELA RATING | TOS | TOP OF SHAFT |
| DET | DETECTOR | TRBL | TROUBLE |
| DGP | DATA GATHERING PANEL | TS | TAMPER SWITCH |
| (E) | EXISTING TO REMAIN | TYP | TYPICAL |
| EC | EMPTY CONDUIT | U | UNDERGROUND |
| EM | EMERGENCY | UNO | UNLESS NOTED OTHERWISE |
| EMT | ELECTRICAL METALLIC TUBING | VCC | VOICE COMMAND CENTER |
| EOL | END OF LINE | VT | VALVE TAMPER |
| EPO | EMERGENCY POWER OFF | W | WATTAGE |
| FAA | FIRE ALARM ANNUNCIATOR | W/ | WITH |
| FACP | FIRE ALARM CONTROL PANEL | W/O | WITHOUT |
| FAPS | REMOTE FIRE ALARM POWER SUPPLY | WF | WATERFLOW |
| FATC | FIRE ALARM TERMINAL CABINET | WG | WIRE GUARD |
| FBO | FURNISHED BY OTHERS | WP | WEATHERPROOF |
| FCC | FIRE COMMAND CENTER | (X) | REMOVE |
| FSD | FIRE SMOKE DAMPER | XFMR | TRANSFORMER |
| 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 | EXISTING | MANUFACTURER | PART NO | DESCRIPTION | CSFM |
|---|---|---|---|---|---|---|
| FACU | 2 | X | GAMEWELL FCI | 7100-1D-PNL | FIRE ALARM CONTROL PANEL, 1 SLC, DACT, IN 7100-CAB ENCLOSURE | 7165-1703:0105 |
| AOM | 2 | NEW | GAMEWELL FCI | AOM-2RF | ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS | 7300-1703:0102 |
| S | 2 | NEW | NOTIFIER | DNR | INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/ FSP-951R. FLASHSCAN AND CLIP MODE. | 7272-1703:0121 |
| H A | 28 | NEW | GAMEWELL FCI | ATD-HL2F W/B210LP | INTELLIGENT ADDRESSABLE 190°F (57°C) THERMAL DETECTOR W/ FLASHSCAN, PLUG-IN DETECTOR BASE | 7270-1703:0115; 7300-1653:0109 |
| H | 7 | NEW | GAMEWELL FCI | ATD-L2F W/B210LP | INTELLIGENT ADDRESSABLE 135°F (57°C) THERMAL DETECTOR W/ FLASHSCAN, PLUG-IN DETECTOR BASE | 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

### INITIATING DEVICES

EXAMPLE: H L1D001

- DEVICE REFERENCE NUMBER
- DEVICE TYPE (D = DETECTORS, M = MODULES)
- SIGNALING LINE CIRCUIT
- DEVICE SYMBOL (SMOKE SENSOR)

STYLE: 4
CLASS: B

### AUDIBLE / VISUAL DEVICES

EXAMPLE: 110CD N1-1-1

- APPLIANCE CANDELA RATING
- APPLIANCE REFERENCE NUMBER
- CIRCUIT REFERENCE NUMBER
- FACP/POWER SUPPLY REFERENCE NUMBER
- APPLIANCE SUMBOL (HORN/ STROBE)

STYLE: Y
CLASS: B

## SCOPE OF WORK AND BUILDING INFORMATION

1. 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

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

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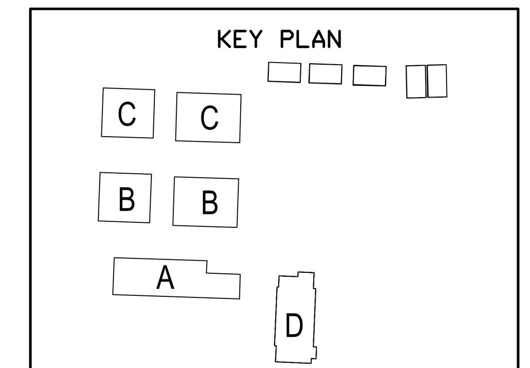

REVISION HISTORY

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| ○ DSA PLAN CHECK | 12/23/2022 |
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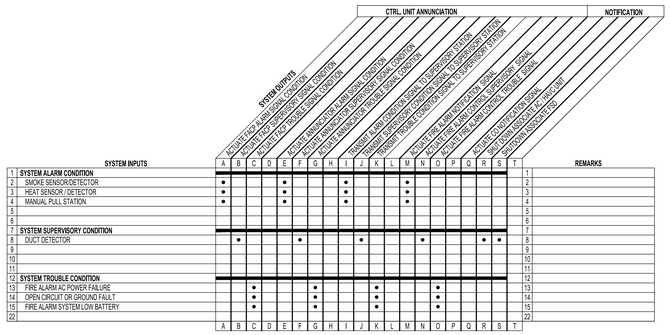

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CONSTRUCTION DOCUMENTS

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FIRE ALARM LEGEND, ABBREVIATIONS, AND NOTES

| | |
|---|---|
| Date: 04/24/2023 | Project Number: 22025 |
| Application Number: 01-120630 | Drawing Number: FA0.01 |
| Drawn: KT / Checked: CD | |




## FIRE ALARM SEQUENCE OF OPERATIONS

NTS

04




## HEAT DETECTOR MOUNTING

NTS

05



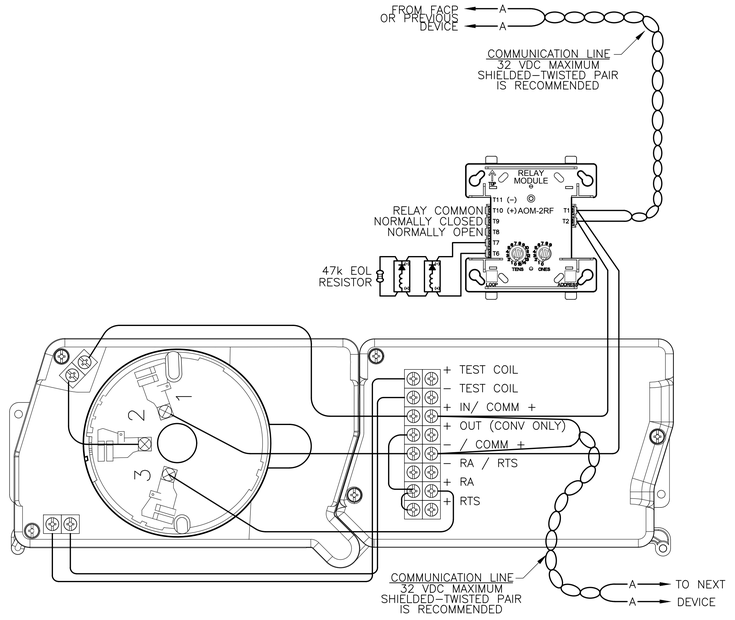

NOTES:

1. THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm).
4. INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
5. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL THROUGH-PENETRATION FIRESTOP SYSTEM #WL1001.

## CONDUIT PENETRATION FIRE STOP DETAIL

NTS

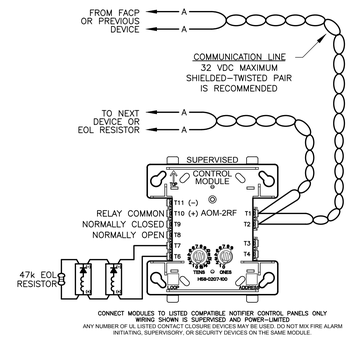
06




## DNR DUCT SMOKE DETECTOR WITH AOM-2RF RELAY MODULE

NTS

01

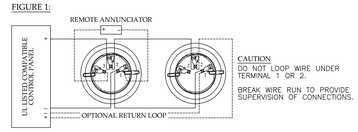



## AOM-2RF RELAY CONTROL MODULE

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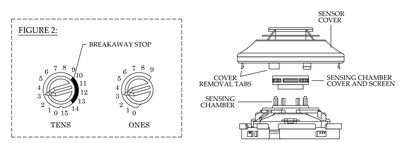
02

FIGURE 1:




1. WIRE THE SENSOR BASE (SUPPLIED SEPARATELY) PER THE WIRING DIAGRAM, SEE FIGURE 1.
2. SET THE DESIRED ADDRESS ON THE SENSOR ADDRESS SWITCHES, SEE FIGURE 2.
   NOTE:
   SOME PANELS SUPPORT EXTENDED ADDRESSING. IN ORDER TO SET THE SENSOR ABOVE ADDRESS 99 ON COMPATIBLE SYSTEMS, CAREFULLY REMOVE THE STOP ON THE UPPER ROTARY SWITCH WITH THUMB AS SHOWN IN FIGURE 2.
3. INSTALL THE SENSOR INTO THE SENSOR BASE. PUSH THE SENSOR INTO THE BASE WHILE TURNING IT CLOCKWISE TO SECURE IT IN PLACE.
4. AFTER ALL SENSORS HAVE BEEN INSTALLED, APPLY POWER TO THE CONTROL UNIT AND ACTIVATE THE COMMUNICATION LINE.
5. TEST THE SENSOR(S) AS DESCRIBED IN THE TESTING SECTION OF THE DETECTORS INSTALLATION AND MAINTENANCE INSTRUCTIONS MANUAL.

FIGURE 2:




## HEAT DETECTOR

NTS

03

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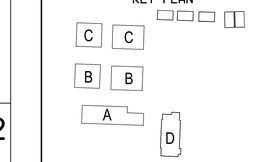
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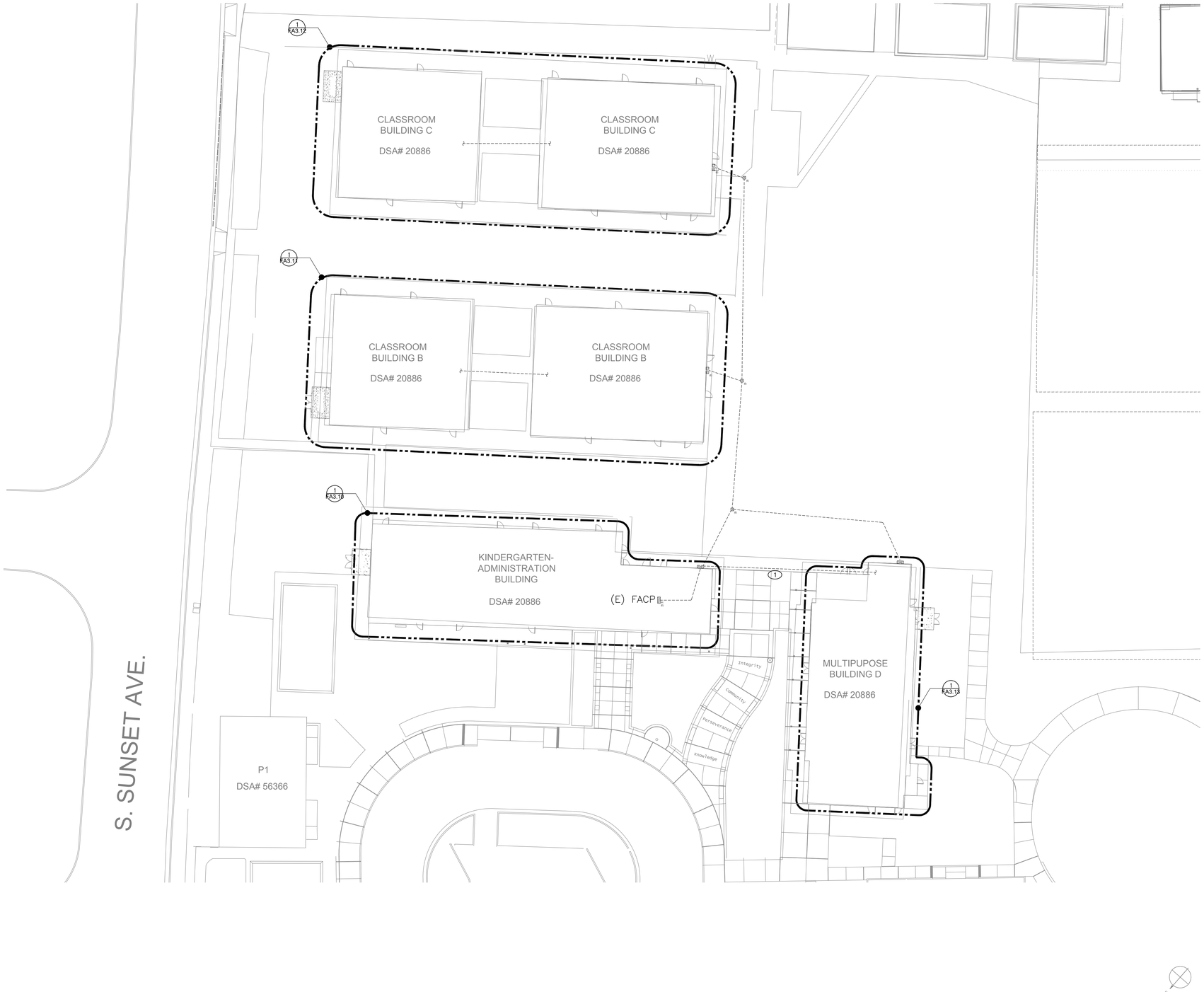

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CONSTRUCTION DOCUMENTS

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FIRE ALARM
DETAILS AND SEQUENCE OF OPERATIONS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | FA0.02 |
| Drawn / Checked | |
| KT / CD | |




**FIRE ALARM SITE PLAN** 1 1" = 20'

## KEY NOTES

(1) (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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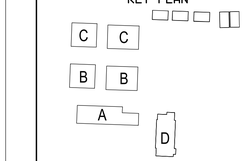
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KEY PLAN




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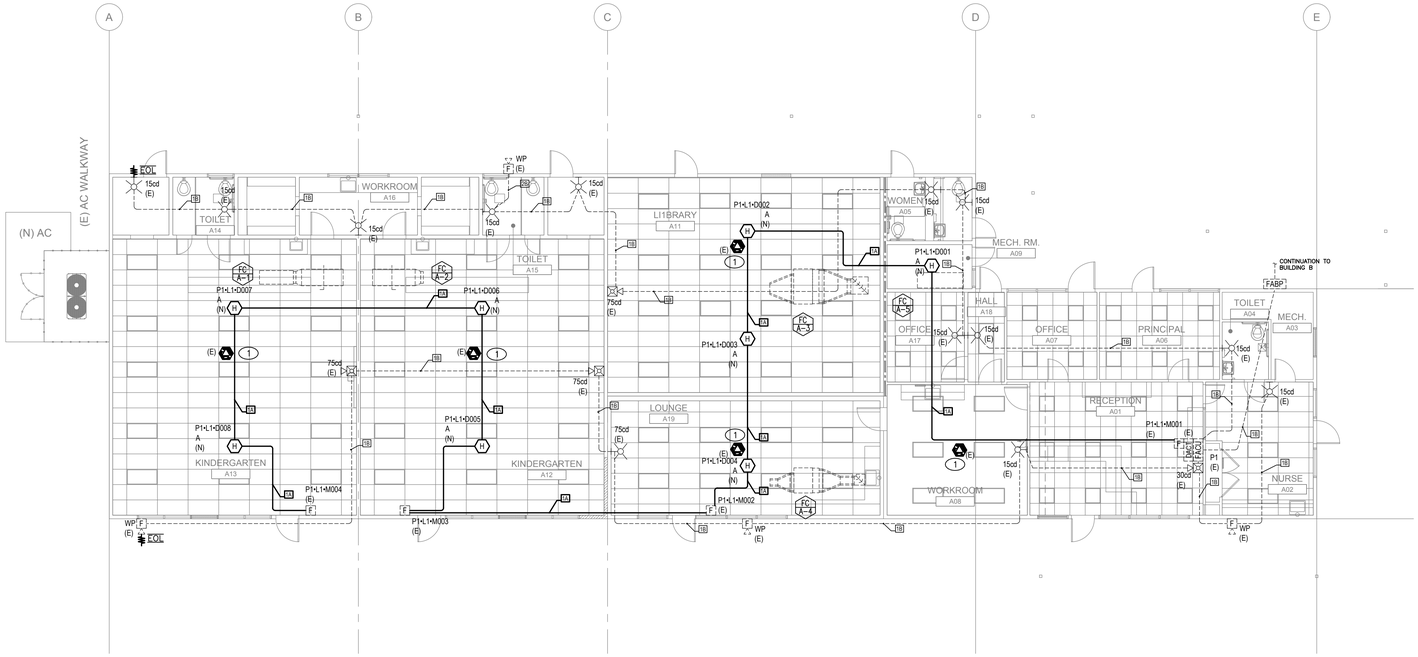
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FIRE ALARM SITE PLAN

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | FA1.00 |
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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 - KINDERGARTEN-ADMINISTRATION BUILDING** | **1** 1/8" = 1'-0"

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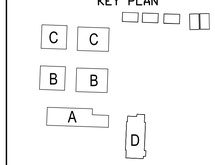
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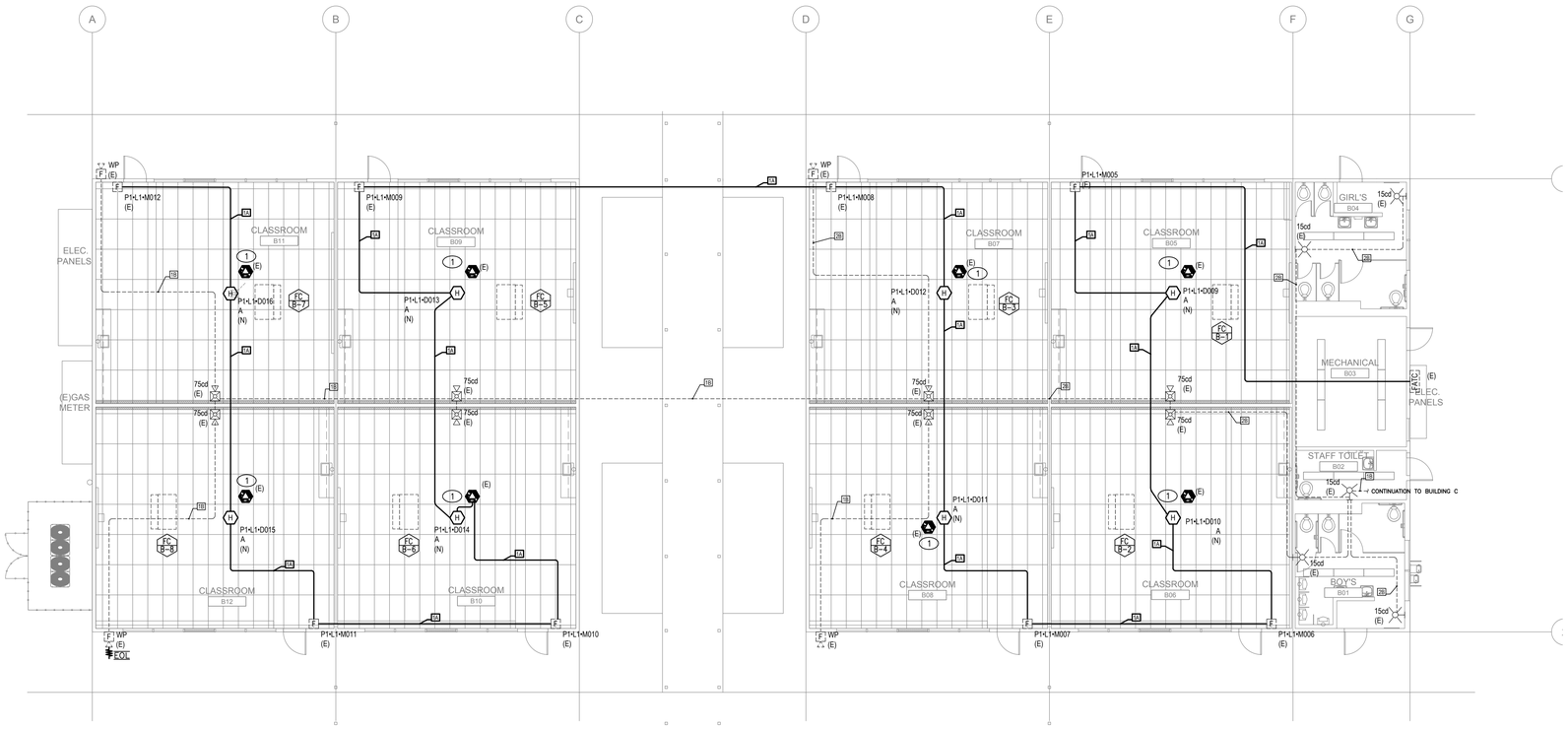
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FIRE ALARM FLOOR PLAN KINDER-ADMIN BLDG

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | FA3.10 |
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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 B** | **1** 1/8" = 1'-0"

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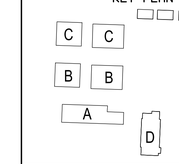
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| ● DSA BACK CHECK | 04/24/2023 |
| ○ BIDDING | |
| ○ CONSTRUCTION | |

KEY PLAN




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

CONSTRUCTION DOCUMENTS

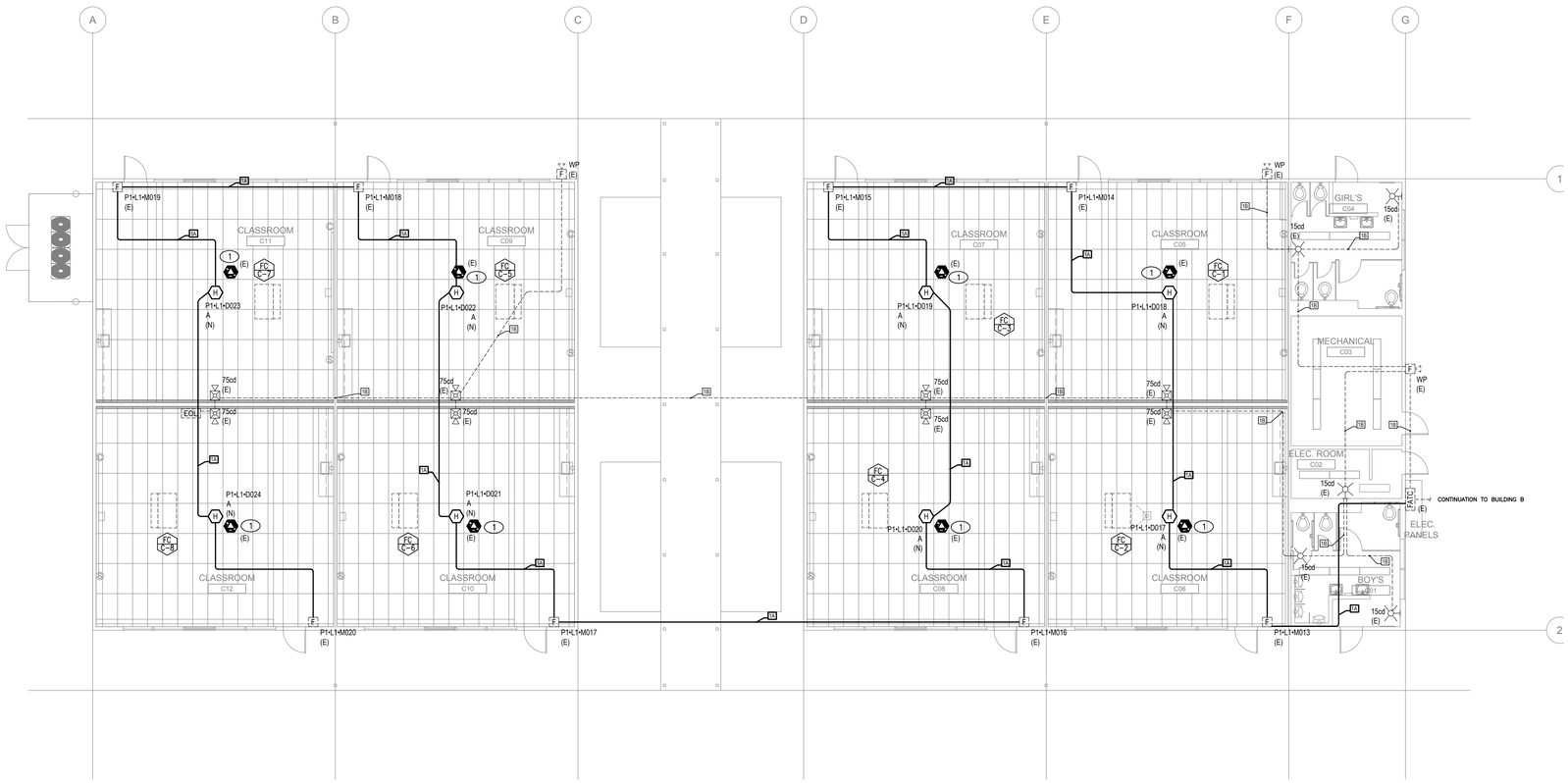
ADELANTE ACADEMY II
1970 CINDERELLA LN.,
SAN JOSE, CA 95116

FIRE ALARM FLOOR PLAN BUILDING B

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | FA3.11 |
| Drawn / Checked | |
| 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 C** | **1** 1/8" = 1'-0"

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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 RAMI S. ZEIDAN No. E 16762 Exp. 9/30/24 ELECTRICAL STATE OF CALIFORNIA |

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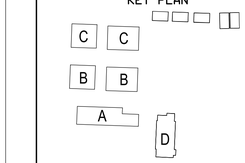
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

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| | DATE |
|---|---|
| ○ DSA PLAN CHECK | 12/23/2022 |
| ● DSA BACK CHECK | 04/24/2023 |
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KEY PLAN




ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
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SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

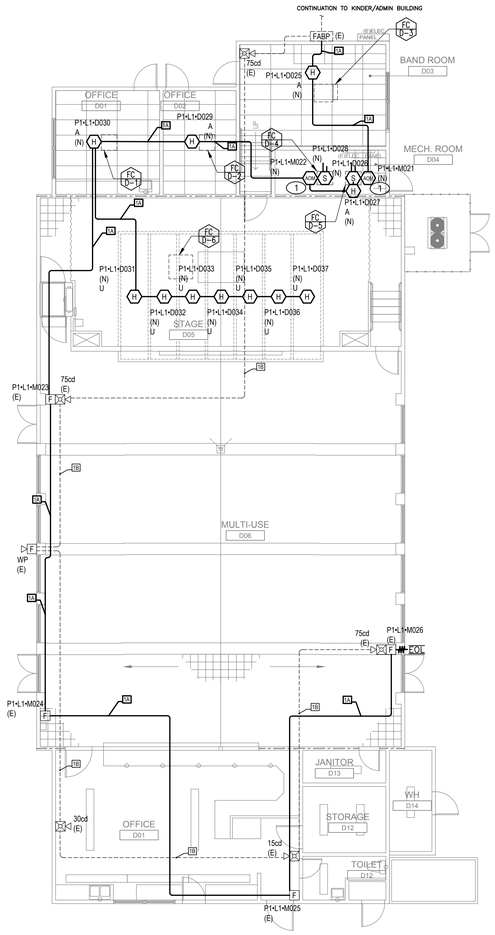
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SAN JOSE, CA 95116

FIRE ALARM FLOOR PLAN BUILDING C

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | FA3.12 |
| Drawn / Checked | |
| KT / CD | |

## KEY NOTES

(1) EXTEND EXISTING CIRCUIT TO THE NEW DUCT SMOKE DETECTOR OR PROVIDE NEW CIRCUIT FROM THE NEAREST DEVICE TO THE NEW DUCT SMOKE DETECTOR AS SHOWN.




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

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| ARCHITECT | ENGINEER |
|---|---|
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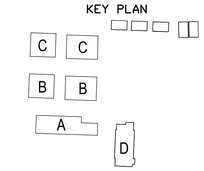
REVISION HISTORY

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|---|---|---|
| | | |

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

KEY PLAN



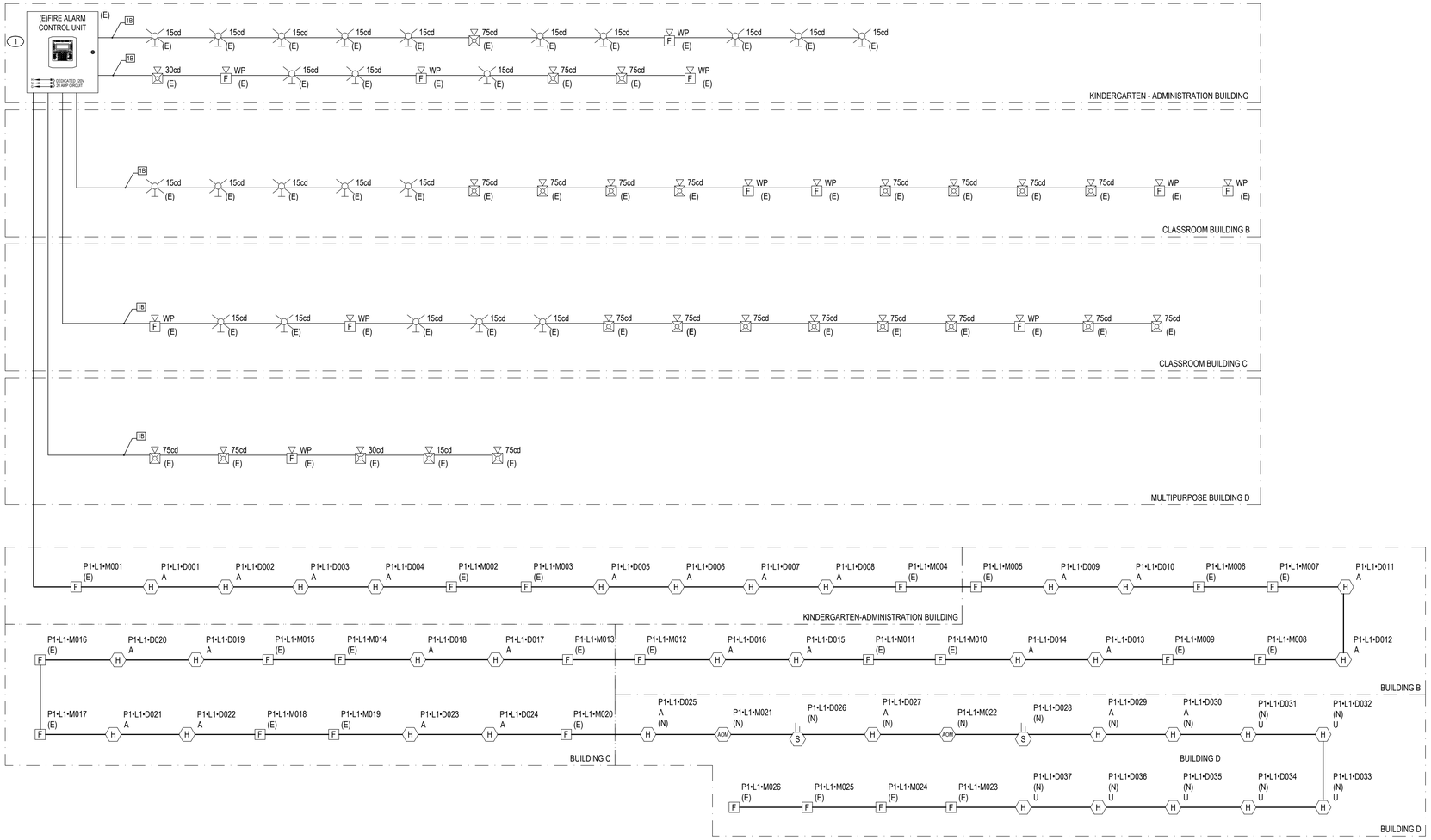

ALUM ROCK UNION ELEMENTARY SCHOOL DISTRICT
2930 GAY AVE.
SAN JOSE, CA 95127

CONSTRUCTION DOCUMENTS

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

FIRE ALARM FLOOR PLAN BUILDING D

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | FA3.13 |
| Drawn / Checked | |
| KT / CD | |




FIRE ALARM RISER DIAGRAM — 1 NTS

**PANEL P1 (7100-1D-PNL) BATTERY CALCULATION**

| 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 | AOM | 1 | AOM-2RF | Addressable Relay Module W/ FlashScan, 2 Form-C Dry Contacts | 0 | **0** | 0 | **0** |
| | AOM | 1 | AOM-2RF | Addressable Relay Module W/ FlashScan, 2 Form-C Dry Contacts | 0.0003 | **0.0003** | 0.0003 | **0.0003** |
| | H A | 28 | ATD-HL2F w/B210LP | Intelligent Addressable 190°F (57°C) Thermal Detector w/ Flashscan, Plug-in Detector Base | 0.0003 | **0.0084** | 0.0003 | **0.0084** |
| | H | 7 | ATD-L2F w/B210LP | Intelligent Addressable 135°F (57°C) Thermal Detector w/ Flashscan, Plug-in Detector Base | 0.0003 | **0.0021** | 0.0003 | **0.0021** |
| | D | 2 | DNR w/FSP-951R | Intelligent Non-Relay Photoelectric Duct Detector/ FSP-951R. FlashScan and CLIP mode. | 0.0002 | **0.0004** | 0.0045 | **0.009** |
| | F | 24 | MS-7AF ((E)) | Velocity addressable double action station | 0.0003 | **0.0072** | 0.007 | **0.168** |
| | | | | | TOTAL STANDBY (A) | **0.0184** | TOTAL ALARM (A) | **0.1878** |
| | | | | | REQUIRED STANDBY TIME = 24 HOURS | | | |
| | | | | | REQUIRED ALARM TIME = 5 MINUTES | | | |
| SECONDARY STANDBY LOAD (A) | | | **0.0184** | | 24 | | **0.44** | |
| SECONDARY ALARM LOAD (A) | | | **0.1878** | | 0.08 | | **0.02** | |
| STANDBY AND ALARM SUBTOTAL (AMP HOURS) | | | | | | **0.46** | | |
| DERATING FACTOR | | | | | | 1.2 | | |
| SECONDARY LOAD REQUIREMENTS (AMP HOURS) | | | | | | **0.55** | | |
| 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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ENGINEER: REGISTERED PROFESSIONAL ENGINEER — RAMI S. ZEIDAN — No. E 16762 — Exp. 9/30/24 — ELECTRICAL — STATE OF CALIFORNIA

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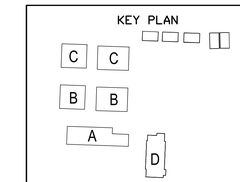
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

| | DATE |
|---|---|
| ○ DSA PLAN CHECK | 12/23/2022 |
| ● DSA BACK CHECK | 04/24/2023 |
| ○ 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 04/24/2023
Project Number 22025
Application Number 01-120630
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 | ExistingAlterration |
| 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<br>☐ Not Included | Covered Process: Commercial Kitchens | ☐ Performance<br>☒ 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<br>☐ Not Included | Covered Process: Computer Rooms | ☐ Performance<br>☒ Not Included | Indoor Lighting (Unconditioned)§140.6<br>Outdoor Lighting §140.7 | *NRCC-LTI-E*<br>*NRCC-LTO-E* |
| Domestic Hot Water (see Table I) | ☐ Performance<br>☒ Not Included | Covered Process: Laboratory Exhaust | ☐ Performance<br>☒ Not Included | Sign Lighting §140.8<br>Mandatory Measures | *NRCC -LTS-E* |
| Lighting ( Indoor Conditioned, see Table K) | ☐ Performance | | | *Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)* | |
| | ☒ Not Included | | | Electrical Power Distribution §110.11 | *NRCC-ELC-E* |
| Solar Thermal Water Heating (see Table I) | ☐ Performance | | | Commissioning §120.8 | *NRCC-CXR-E* |
| | ☒ Not Included | | | Solar Ready §110.10 | *NRCC-SRA-E* |





### H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating | | | | Cooling | | | | |
| Equipment Name | Equipment Type | Qty | Total Heating Output (kBtu/h) | Supp Heat Output (kBtuh) | Efficiency Unit | Efficiency | Total Cooling Output (kBtu/h) | Efficiency Unit | Efficiency | Economizer Type (if present) | Status[1] |
| HP A-1 | VRF | 1 | 25.6 | NA | COP | 3.30 | 228 | EER | 10.80 | NA | N |

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

### H2. FAN SYSTEMS SUMMARY

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Design OA | Supply Fan | | | | | Return Fan | | | | | |
| Name or Item Tag | Qty | CFM | CFM | Modeling Method | Power | Power Units | Control | CFM | Modeling Method | Power | Power Units | Control | Status[1] |
| 2-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 |

[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 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<br>Insulation Orientation = None<br>Insulation R-Value = R0 | E |
| Minimum Roof20 | Roof | 6421 | NA | 0 | 18 | U-Factor | 0.048 | Built-up roofing - 3/8 in.<br>OSB - Oriented Strand Board - 1/2 in.<br>Cellular polyisocyanurate (unfaced) - 3 in. R18<br>Air - Cavity - Wall Roof Ceiling - 4 in. or more<br>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<br>FixedWindow<br>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 Apoly

### 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.<br>Vapor permeable felt - 1/8 in.<br>Wood framed wall, 16in. OC, 3.5in., R-0<br>Gypsum Board - 1/2 in. | E |
| Interior R-0 Wall11 | InteriorWall | 8786 | Wood | 0 | NA | U-Factor | 0.376 | Gypsum Board - 1/2 in.<br>Wood framed wall, 16in. OC, 3.5in., R-0<br>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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 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-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. $H_2O$) | 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 |
|---|---|---|---|---|---|---|
| | Mechanical Ventilation | | | | | |
| Zone Name | 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



### 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 |


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STUDIO W ARCHITECTS

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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
Exp. Date: 09/30/2023

ENGINEER
REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-25 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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4. Copyright Studio W Associates, Inc. 2023.

REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

TITLE 24 CALCULATIONS

Date 04/24/2023
Project Number 22025
Application Number 01-120630
Drawing Number T24.01
Drawn KT
Checked CD

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

*I certify that this Certificate of Compliance documentation is accurate and complete.*

| | |
|---|---|
| Documentation Author Name: Leonard Yalong | Signature: |
| Company: LP Consulting Engineers Inc. | |
| Address: 1209 Pleasant Grove Blvd | Signature Date: 2022-12-15 |
| 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: Ryan Ennis | 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 #: M41413 |





**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/*

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Mechanical | NRCA-MCH-11-A Automatic Demand Shed Controls |
| | NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance |





**L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents 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
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**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 | |
| | | | | | | | | Pass | Fail |
| 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 | | |
| | | | | | | | | 13 | |
| *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* | | | | | | | | Plan Sheet Showing Daylit Zones: | |



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



**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



*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 | |

**L. 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.*



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



**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Leonard Yalong | Documentation Author Signature: |
| Company: LP Consulting Engineers Inc. | Signature Date: 2022-12-15 |
| 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



**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.*



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STUDIO W ARCHITECTS

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

LP CONSULTING ENGINEERS
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Roseville, CA 95678
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Job #: 22-2198


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

ENGINEER
REGISTERED PROFESSIONAL ENGINEER
RYAN ENNIS
M 41413
REN. 03-31-25
MECHANICAL
STATE OF CALIFORNIA

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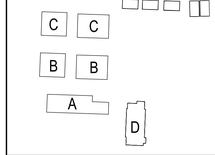
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
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DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

TITLE 24 CALCULATIONS

Date: 04/24/2023
Project Number: 22025
Application Number: 01-120630
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) |
| 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 15:02:58

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 | | 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 15:02:58

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.*

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 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 |

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 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.*

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 15:02:58

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 | ☐ | ☐ |

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 15:02:58

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

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 15:02:58

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.*

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 15:02:58

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 | | 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 15:02:58

DSA STAMP

STUDIO W ARCHITECTS


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

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


| ARCHITECT | ENGINEER |
|---|---|
| LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA | REGISTERED PROFESSIONAL ENGINEER JORDAN ENNIS M 41413 REN. 03-31-25 MECHANICAL STATE OF CALIFORNIA |
| (wet signed, dated&sealed) | |

GENERAL NOTES
1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
4. Copyright Studio W Associates, Inc. 2023.

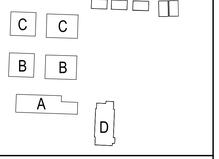
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

TITLE 24 CALCULATIONS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | T24.03 |
| Drawn KT | Checked 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



| Project Name: | Adelante Academy 2 - Bldg B | NRCC-PRF-01-E | Page 2 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 | | |

**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 |
|---|---|---|---|
| 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 | | |

**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<br>☐ Not Included | Covered Process: Commercial Kitchens | ☐ Performance<br>☒ 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<br>☐ Not Included | Covered Process: Computer Rooms | ☐ Performance<br>☒ Not Included | Indoor Lighting (Unconditioned)§140.6 | *NRCC-LTI-E* |
| Domestic Hot Water (see Table I) | ☐ Performance<br>☒ Not Included | Covered Process: Laboratory Exhaust | ☐ Performance<br>☒ Not Included | Outdoor Lighting §140.7 | *NRCC-LTO-E* |
| | | | | Sign Lighting §140.8 | *NRCC-LTS-E* |
| | | | | Mandatory Measures | |
| Lighting ( Indoor Conditioned, see Table K) | ☐ Performance | | | *Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)* | |
| | ☒ Not Included | | | Electrical Power Distribution 5110.11 | *NRCC-ELC-E* |
| Solar Thermal Water Heating (see Table I) | ☐ Performance | | | Commissioning 5120.8 | *NRCC-CXR-E* |
| | ☒ Not Included | | | Solar Ready 5110.10 | *NRCC-SRA-E* |



| Project Name: | Adelante Academy 2 - Bldg B | NRCC-PRF-01-E | Page 6 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 | | |

**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 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 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 |



| Project Name: | Adelante Academy 2 - Bldg B | NRCC-PRF-01-E | Page 5 of 12 |
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| 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 | | |

**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.<br>OSB - Oriented Strand Board - 1/2 in.<br>Extruded Polystyrene - XPS - 3 in. R15.00<br>OSB - Oriented Strand Board - 1/2 in.<br>Air - Cavity - Wall Roof Ceiling - 4 in. or more<br>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.<br>Vapor permeable felt - 1/8 in.<br>Wood framed wall, 16in. OC, 3.5in., R-0<br>Gypsum Board - 1/2 in. | E |
| Interior R-0 Wall12 | InteriorWall | 7110 | Wood | 0 | NA | U-Factor | 0.376 | Gypsum Board - 1/2 in.<br>Wood framed wall, 16in. OC, 3.5in., R-0<br>Gypsum Board - 1/2 in. | E |
| Slab On Grade15 | UndergroundFloor | 8670 | NA | 0 | NA | F-Factor | 0.73 | Slab Type = UnheatedSlabOnGrade<br>Insulation Orientation = None<br>Insulation R-Value = R0 | E |



| Project Name: | Adelante Academy 2 - Bldg B | NRCC-PRF-01-E | Page 9 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 | | |

**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 |
| 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



| Project Name: | Adelante Academy 2 - Bldg B | NRCC-PRF-01-E | Page 8 of 12 |
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| 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 | | |

**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 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 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 |
|---|---|---|---|
| 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 | | |

**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 | |

[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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ARCHITECT
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA
(with limited signature)

ENGINEER
REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-25 MECHANICAL STATE OF CALIFORNIA

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2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
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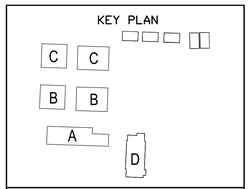
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

TITLE 24 CALCULATIONS

Date 04/24/2023
Project Number 22025
Application Number 01-120630
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: | | |
| Address: | Date Signed: | |
| City/State/Zip: | | |
| Phone: | Title: | License #: |
| Responsible Lighting Designer Name: Rami Zeidan | Signature: | |
| Company: LP Consulting Engineers Inc. | | |
| Address: 1209 Pleasant Grove Blvd | Date Signed: 2022-12-15 | |
| City/State/Zip: Roseville CA 95678 | | |
| Phone: 916-771-0778 | Title: Electrical Engineer | License #: E16762 |
| Responsible Mechanical Designer Name:Ryan Ennis | Signature: | |
| Company: LP Consulting Engineers Inc | | |
| Address: 1209 Pleasant Grove Blvd | Date Signed: 2022-12-15 | |
| City/State/Zip: Roseville CA 95678 | | |
| Phone: 9167710778 | Title: Mechanical Engineer | License #: M41413 |





**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/*

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Mechanical | NRCA-MCH-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 | |
| 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/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 | 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 |

**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 |





**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.*



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STUDIO W ARCHITECTS

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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
Seal Date: 04/24/2023

ENGINEER

REGISTERED PROFESSIONAL ENGINEER
RYAN ENNIS
M 41413
REN. 03-31-25
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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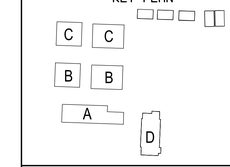
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
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| | | |
| | | |
| | | |
| | | |
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

TITLE 24 CALCULATIONS

| | |
|---|---|
| Date 04/24/2023 | Project Number 22025 |
| Application Number 01-120630 | Drawing Number 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

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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 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) | | 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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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

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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 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)
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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

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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 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

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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 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.**

| | |
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| Company: LP Consulting Engineers Inc. | Signature Date: 2022-12-15 |
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|---|---|
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| 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 B | **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 15:12:15

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 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 15:12:15

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STUDIO W ARCHITECTS


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Sacramento, California 95811
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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 | ENGINEER |
|---|---|
| LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA (with limited liability) | REGISTERED PROFESSIONAL ENGINEER JORDAN ENNIS M 41413 REN. 03-31-25 MECHANICAL STATE OF CALIFORNIA |

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2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
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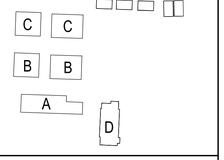
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
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DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

TITLE 24 CALCULATIONS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | T24.06 |
| 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 | -- | 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





**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.*





**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<br>☐ Not Included | Covered Process: Commercial Kitchens | ☐ Performance<br>☒ 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<br>☐ Not Included | Covered Process: Computer Rooms | ☐ Performance<br>☒ Not Included | Indoor Lighting (Unconditioned)§140.6 | *NRCC-LTI-E* |
| Domestic Hot Water (see Table I) | ☐ Performance<br>☒ Not Included | Covered Process: Laboratory Exhaust | ☐ Performance<br>☒ Not Included | Outdoor Lighting §140.7<br>Sign Lighting §140.8 | *NRCC-LTO-E*<br>*NRCC-LTS-E* |
| | | | | Mandatory Measures | |
| Lighting ( Indoor Conditioned, see Table K) | ☐ Performance<br>☒ 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.)*<br>Electrical Power Distribution §110.11 | *NRCC-ELC-E* |
| Solar Thermal Water Heating (see Table I) | ☐ Performance<br>☒ Not Included | | | Commissioning §120.8<br>Solar Ready §110.10 | *NRCC-CXR-E*<br>*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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 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 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 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*





**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.<br>OSB - Oriented Strand Board - 1/2 in.<br>Cellular polyisocyanurate (unfaced) - 3 in. R18<br>Air - Cavity - Wall Roof Ceiling - 4 in. or more<br>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<br>FixedWindow<br>MetalFraming | Default Performance | SiteBuilt | 972 | 1.19 | 0.83 | 0.77 | E |
| Residential Cooling | VerticalFenestration<br>FixedWindow<br>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*





**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.<br>Vapor permeable felt - 1/8 in.<br>Wood framed wall, 16in. OC, 3.5in., R-0<br>Gypsum Board - 1/2 in. | E |
| Interior R-0 Wall12 | InteriorWall | 7110 | Wood | 0 | NA | U-Factor | 0.376 | Gypsum Board - 1/2 in.<br>Wood framed wall, 16in. OC, 3.5in., R-0<br>Gypsum Board - 1/2 in. | E |
| Slab On Grade15 | UndergroundFloor | 8670 | NA | 0 | NA | F-Factor | 0.73 | Slab Type = UnheatedSlabOnGrade<br>Insulation Orientation = None<br>Insulation R-Value = R0 | E |





**H10. EVAPORATIVE COOLER SUMMARY**

This Section Does Not Apply

**H11. HEAT RECOVERY SUMMARY**

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 |
| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 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 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 | ☐ |





**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 |
|---|---|---|---|---|---|---|
| | 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 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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Job #: 22-2198


ARCHITECT

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

ENGINEER

REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-25 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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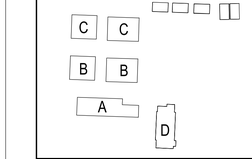
REVISION HISTORY

| NO. | REMARKS | DATE |
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DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

TITLE 24 CALCULATIONS

Date 04/24/2023
Project Number 22025
Application Number 01-120630
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: | | |
| Address: | Date Signed: | |
| City/State/Zip: | | |
| Phone: | Title: | License #: |
| Responsible Lighting Designer Name: Rami Zeidan | Signature: | |
| Company: LP Consulting Engineers Inc. | | |
| Address: 1209 Pleasant Grove Blvd | Date Signed: 2022-12-15 | |
| City/State/Zip: Roseville CA 95678 | | |
| Phone: 916-771-0778 | Title: Electrical Engineer | License #: E16762 |
| Responsible Mechanical Designer Name: Ryan Ennis | Signature: | |
| Company: LP Consulting Engineers Inc | | |
| Address: 1209 Pleasant Grove Blvd | Date Signed: 2022-12-15 | |
| City/State/Zip: Roseville CA 95678 | | |
| Phone: 9167710778 | Title: Mechanical Engineer | License #: M41413 |





**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/*

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Mechanical | NRCA-MCH-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 | |
| 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/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 | 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.*





**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 |





*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.*



DSA STAMP


STUDIO W ARCHITECTS

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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 Date(s) Signed(s)

ENGINEER
REGISTERED PROFESSIONAL ENGINEER
RYAN ENNIS
M 41413
REN. 03-31-25
MECHANICAL
STATE OF CALIFORNIA

GENERAL NOTES

1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
4. Copyright Studio W Associates, Inc. 2023.

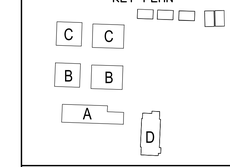
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

TITLE 24 CALCULATIONS

Date 04/24/2023
Project Number 22025
Application Number 01-120630
Drawing Number T24.08
Drawn KT
Checked CD

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

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| Project Name: | 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

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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 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 |

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 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.**

| | |
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| Documentation Author Name: Leonard Yalong | Documentation Author Signature: |
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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 |

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 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
## 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
## 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 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

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

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Job #: 22-2198


ARCHITECT
LICENSED ARCHITECT BRYAN P. WHITMORE No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA
(with limited signature)

ENGINEER
REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-25 MECHANICAL STATE OF CALIFORNIA

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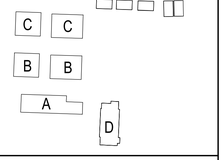
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

TITLE 24 CALCULATIONS

| Date | Project Number |
|---|---|
| 04/24/2023 | 22025 |
| Application Number | Drawing Number |
| 01-120630 | 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 |
|---|---|---|---|
| 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 | | |

**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.*



| Project Name: | Adelante Academy 2 - Bldng D - Multipurpose | NRCC-PRF-01-E | Page 1 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 | | |

**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<br>☐ Not Included | Covered Process: Commercial Kitchens | ☐ Performance<br>☒ 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<br>☐ Not Included | Covered Process: Computer Rooms | ☐ Performance<br>☒ Not Included | Indoor Lighting (Unconditioned)§140.6 | *NRCC-LTI-E* |
| Domestic Hot Water (see Table I) | ☐ Performance<br>☒ Not Included | Covered Process: Laboratory Exhaust | ☐ Performance<br>☒ Not Included | Outdoor Lighting §140.7 | *NRCC-LTO-E* |
| | | | | Sign Lighting §140.8 | *NRCC -LTS-E* |
| | | | | Mandatory Measures | |
| Lighting ( Indoor Conditioned, see Table K) | ☐ Performance | | | *Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)* | |
| | ☒ Not Included | | | Electrical Power Distribution 5110.11 | *NRCC-ELC-E* |
| Solar Thermal Water Heating (see Table I) | ☐ Performance | | | Commissioning 5120.8 | *NRCC-CXR-E* |
| | ☒ Not Included | | | Solar Ready 5110.10 | *NRCC-SRA-E* |



| Project Name: | Adelante Academy 2 - Bldng D - Multipurpose | NRCC-PRF-01-E | Page 6 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 | | |

**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



| Project Name: | Adelante Academy 2 - Bldng D - Multipurpose | NRCC-PRF-01-E | Page 5 of 11 |
|---|---|---|---|
| Project Address: | 1970 Cinderella Lane San Jose 95116 | Calculation Date/Time: | 08:44, Thu, Dec 15, 2022 |
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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.<br>OSB - Oriented Strand Board - 1/2 in.<br>Cellular polyisocyanurate (unfaced) - 3 in. R18<br>Air - Cavity - Wall Roof Ceiling - 4 in. or more<br>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<br>FixedWindow<br>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*



| Project Name: | Adelante Academy 2 - Bldng D - Multipurpose | NRCC-PRF-01-E | Page 4 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 | | |

**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.<br>Vapor permeable felt - 1/8 in.<br>Wood framed wall, 16in. OC, 3.5in., R-0<br>Gypsum Board - 1/2 in. | E |
| Interior R-0 Wall12 | InteriorWall | 5360 | Wood | 0 | NA | U-Factor | 0.376 | Gypsum Board - 1/2 in.<br>Wood framed wall, 16in. OC, 3.5in., R-0<br>Gypsum Board - 1/2 in. | E |
| Slab On Grade15 | UndergroundFloor | 4990 | NA | 0 | NA | F-Factor | 0.73 | Slab Type = UnheatedSlabOnGrade<br>Insulation Orientation = None<br>Insulation R-Value = R0 | E |



| Project Name: | Adelante Academy 2 - Bldng D - Multipurpose | NRCC-PRF-01-E | Page 9 of 11 |
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**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 |



| Project Name: | Adelante Academy 2 - Bldng D - Multipurpose | NRCC-PRF-01-E | Page 8 of 11 |
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| Input File Name: | Building-D-Adelante Academy 2.cibd19x | | |

**H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Rated Capacity (kBtuh) | | Airflow (cfm) | | | Fan | | | |
| System ID | Zone Name | System Type | Qty | Heating | Cooling | Design | Min. | Min. Ratio | Power | Power Units | Cycles | VSD |
| 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



| Project Name: | Adelante Academy 2 - Bldng D - Multipurpose | NRCC-PRF-01-E | Page 7 of 11 |
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| Input File Name: | Building-D-Adelante Academy 2.cibd19x | | |

**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 | ☐ | ☐ |



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Job #: 22-2198

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

ENGINEER
REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-25 MECHANICAL STATE OF CALIFORNIA

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1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
4. Copyright Studio W Associates, Inc. 2023.

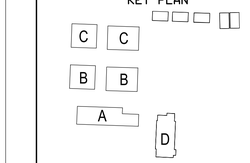
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |
| | | |
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| | | |
| | | |
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

TITLE 24 CALCULATIONS

Date 04/24/2023
Project Number 22025
Application Number 01-120630
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 | |

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



### 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: | | |
| Address: | Date Signed: | |
| City/State/Zip: | | |
| Phone: | Title: | License #: |
| Responsible Lighting Designer Name: Rami Zeidan | Signature: | |
| Company: LP Consulting Engineers Inc. | | |
| Address: 1209 Pleasant Grove Blvd | Date Signed: 2022-12-15 | |
| City/State/Zip: Roseville CA 95678 | | |
| Phone: 916-771-0778 | Title: Electrical Engineer | License #: E16762 |
| Responsible Mechanical Designer Name: Ryan Ennis | Signature: | |
| Company: LP Consulting Engineers Inc | | |
| Address: 1209 Pleasant Grove Blvd | Date Signed: 2022-12-15 | |
| City/State/Zip: Roseville CA 95678 | | |
| Phone: 9167710778 | Title: Mechanical Engineer | License #: M41413 |





### M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

*Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/*

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Mechanical | NRCA-MCH-11-A Automatic Demand Shed Controls |
| | NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance |

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

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.*

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
## 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 | |

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
## 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.*

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 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 15:17:52

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 |

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
## 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.*

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

STUDIO W ARCHITECTS

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

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

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

ENGINEER
REGISTERED PROFESSIONAL ENGINEER — RYAN ENNIS — M 41413 — REN. 03-31-25 — MECHANICAL — STATE OF CALIFORNIA

GENERAL NOTES
1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
4. Copyright Studio W Associates, Inc. 2023.

REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DRAWING STATUS

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

KEY PLAN
C C
B B
A
D

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: 04/24/2023
Project Number: 22025
Application Number: 01-120630
Drawing Number: T24.11
Drawn: KT
Checked: CD

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

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| Project Name: | 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)2L :** | | | |

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*

### O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
*Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/*

| Form/Title | Field Inspector | |
|---|---|---|
| | Pass | Fail |
| NRCI-LTO-01-E - Must be submitted for all buildings | ☐ | ☐ |

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-12-15 15:17:52

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

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTS-E |
|---|---|---|---|
| *This document is used to demonstrate compliance with requirements in §110.9, §110.12, §130.0, §130.3, §140.8, and §141.0(b)2M for sign lighting scopes using the prescriptive path. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.* | | | |
| Project Name: | 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 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: 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

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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 1 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:
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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: Rami Zeidan |
| Company: LP Consulting Engineers Inc. | Date Signed: 2022-12-15 |
| Address: 1209 Pleasant Grove Blvd | License: E16762 |
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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 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 15:17:52

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 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 15:17:52

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 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

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 | ENGINEER |
|---|---|
| LICENSED ARCHITECT BRYAN P. WHITNEY No. C 30345 Ren. 9/30/23 STATE OF CALIFORNIA (with digital signature) | REGISTERED PROFESSIONAL ENGINEER BRYAN ENNIS M 41413 REN. 03-31-25 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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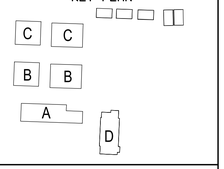
REVISION HISTORY

| NO. | REMARKS | DATE |
|---|---|---|
| | | |
| | | |
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| | | |
| | | |
| | | |
| | | |
| | | |

DRAWING STATUS

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

KEY PLAN




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

CONSTRUCTION DOCUMENTS

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

TITLE 24 CALCULATIONS

Date 04/24/2023
Project Number 22025
Application Number 01-120630
Drawing Number T24.12
Drawn KT
Checked CD