LEDESMA ELEMENTARY SCHOOL MODERNIZATION

1001 SCHOOLHOUSE RD., SAN JOSE CA 95138

OAK GROVE SCHOOL DISTRICT

CONSTRUCTION DOCUMENTS

DSA FILE NUMBER 43-41
DSA APP. NUMBER 01-122831
PTN 69625-156

ABBREVIATIONS

&	AND	LAB.	LABORATORY
@	AT	LAM.	LAMINATE
A.B.	ANCHOR BOLT	LAV.	LAVATORY
ABV.	ABOVE	LKR.	LOCKER
A.C.	ASPHALTIC CONCRETE	LT.	LIGHT
ACT	ACOUSTIC TILE		
ADJ.	ADJUSTABLE	MAX.	MAXIMUM
A.F.F.	ABOVE FINISHED FLOOR	M.B.	MACHINE BOLT
ALUM.	ALUMINUM	MECH.	MECHANICAL
A.P.	ACCESS PANEL	MFR.	MANUFACTURER
APPROX.	APPROXIMATELY	M.H.	MANHOLE
ARCH.	ARCHITECT	MIN.	MINIMUM
		MIR.	MIRROR
BD.	BOARD	MISC.	MISCELLANEOUS
BLDG.	BUILDING	M.O.	MASONRY OPENING
BLKG.	BLOCKING	M.S.	MACHINE SCREW
BM	BEAM	MTD.	MOUNTED
B.M.	BENCH MARK	MTL.	METAL
BOT.	BOTTOM	MUL.	MULLION
BTWN.	BETWEEN		
B.W.	BOTH WAYS	(N)	NEW
		N.	NORTH
CAB.	CABINET	N.I.C.	NOT IN CONTRACT
C.B.	CATCH BASIN	NO. or #	NUMBER
C.C or O.C.	CENTER TO CENTER	NOM.	NOMINAL
CEM.	CEMENT	N.T.S.	NOT TO SCALE
CER. TILE	CERAMIC TILE		
C.G.	CORNER GUARD	OBS.	OBSCURE
C.I.	CAST IRON	O.C.	ON CENTER
C.J.	CONTROL JOINT	OCC.	OCCUPANT(CY)
CLG.	CEILING	O.D.	OVERFLOW DRAIN and/or OUTSIDE DIAMETER
CLKG.	CAULKING	O.F.O.S.	OUTSIDE FACE OF STUD
CLR.	CLEAR	O.F.C.I.	OWNER FURNISHED and CONTRACTOR INSTALLED
CMU	CONCRETE MASONRY UNIT	O.H.	OPPOSITE HAND
CNTR.	COUNTER	OPNG.	OPENING
C.O.	CLEANOUT	OPP.	OPPOSITE
COL.	COLUMN		
CONC.	CONCRETE		
CONST.	CONSTRUCTION	P.A.F.	POWDER ACTUATED FASTENER
CONT.	CONTINUOUS	PL	PLATE
CONTR.	CONTRACTOR	P.L.	PROPERTY LINE
C.P.	CONCRETE PIPE	P. LAM	PLASTIC LAMINATE
CTR.	CENTER	PLAS.	PLASTER
CTSK.	COUNTER SUNK	PLYWD.	PLYWOOD
C.W.	COLD WATER	PR.	PAIR
		PTD.	PAINTED
D.A.	DISABLED ACCESS	PTN.	PARTITION
DBL	DOUBLE		
D.F.	DRINKING FOUNTAIN	Q.T.	QUARRY TILE
D.FIR	DOUGLAS FIR		
DTL.	DETAIL	R. or RAD.	RADIUS
DIA. or Ø	DIAMETER	R.C.P.	REINFORCED CONCRETE PIPE
DIM.	DIMENSION	R.D.	ROOF DRAIN
DISP.	DISPOSAL	R.E.	RIM ELEVATION
DN	DOWN	REF.	REFERENCE
DO	DITTO	REINF.	REINFORCING
DR.	DOOR	REQ'D	REQUIRED
DS.	DOWNSPOUT	R.H.M.S.	ROUND HEAD METAL SCREW
DWG.	DRAWING	R.H.W.S.	ROUND HEAD WOOD SCREW
		RM.	ROOM
(E)	EXISTING	R.O.	ROUGH OPENING
E.	EAST	RWD.	REDWOOD
EA.	EACH	R.W.L.	RAIN WATER LEADER
E.J.	EXPANSION JOINT		
ELEC.	ELECTRIC or ELECTRICAL	S	SOUTH
EL.	ELEVATION	S.A.D.	SEE ARCHITECTURAL DRAWINGS
ELEV.	ELEVATOR	S.C.	SOLID CORE
ENCL.	ENCLOSE and/or ENCLOSURE	S.C.D.	SEE CIVIL DRAWINGS
EQ.	EQUAL	SCHED.	SCHEDULE
EQUIP.	EQUIPMENT	S.E.D.	SEE ELECTRICAL DRAWINGS
E.W.	EACH WAY	S.F.	SQUARE FEET
E.W.C.	ELECTRIC WATER COOLER	SHEATH.	SHEATHING
EX.	EXPANSION	SHT.	SHEET
EXP.	EXPOSED	SIM.	SIMILAR
EXT.	EXTERIOR	S.L.D.	SEE LANDSCAPE DRAWINGS
		S.M.	SHEET METAL
F.A.	FIRE ALARM	S.M.D.	SEE MECHANICAL DRAWINGS
F.D.	FLOOR DRAIN	S.M.S.	SHEET METAL SCREW
FDN.	FOUNDATION	S.O.V.	SHUT OFF VALVE
F.E.	FIRE EXTINGUISHER	S.P.D.	SEE PLUMBING DRAWINGS
F.E.C.	FIRE EXTINGUISHER CABINET	SPEC.	SPECIFICATIONS
F.H.	FIRE HYDRANT	SQ. or Ø	SQUARE
F.H.C.	FIRE HOSE CABINET	S.S.	STAINLESS STEEL
F.H.S.M.S.	FLAT HEAD SHEET METAL SCREW	S.S.D.	SEE STRUCTURAL DRAWINGS
F.H.W.S.	FLAT HEAD WOOD SCREW	STAG.	STAGGERED
FIN.	FINISH	STD.	STANDARD
FL. or FLR.	FLOOR	STL.	STEEL
F.O.C.	FACE OF CONCRETE	STOR.	STORAGE
F.O.F.	FACE OF FINISH	STRUCT.	STRUCTURAL
F.O.M.	FACE OF MASONRY	S.T.S.M.S.	SELF TAPPING SHEET METAL SCREW
F.O.S.	FACE OF STUD	SUSP.	SUSPENDED
F.S.	FINISH SLAB		
FT.	FOOT OR FEET	T.& G.	TONGUE & GROOVE
FTG.	FOOTING	TEL.	TELEPHONE
FURR.	FURRING	TERR.	TERRAZZO
		THRES.	THRESHOLD
GA.	GAUGE	T.J.	TOOLED JOINT
GALV.	GALVANIZED	T.O.B.	TOP OF BEAM
G.B.	GRAB BAR	T.O.C.	TOP OF CURB or CONCRETE
G.I.	GALVANIZED IRON	T.O.S.	TOP OF STEEL or SLAB
GL.	GLASS	T.O.W.	TOP OF WALL
GLU-LAM	GLUE-LAMINATED	TYP.	TYPICAL
GND.	GROUND		
GR.	GRADE	U.O.N.	UNLESS OTHERWISE NOTED
GYP.	GYPSUM		
		VERT.	VERTICAL
H.B.	HOSE BIBB	V.C.P.	VITRIFIED CLAY PIPE
H.C.	HOLLOW CORE	V.C.T.	VINYL COMPOSITION TILE
HDWD.	HARDWOOD	V.G.	VERTICAL GRAIN
HDWR.	HARDWARE	V.I.F.	VERIFY IN FIELD
H.M.	HOLLOW METAL	V.T.R.	VENT THROUGH ROOF
HORIZ.	HORIZONTAL	V.W.C.	VINYL WALL COVERING
HR.	HOUR		
HT.	HEIGHT	W	WEST
		W/	WITH
I.D.	INSIDE DIAMETER	W.C.	WATER CLOSET
INSUL.	INSULATION	WD.	WOOD
INT.	INTERIOR	W.H.	WATER HEATER
INV.	INVERT	W/O	WITHOUT
		W.O.	WHERE OCCURS
JAN.	JANITOR	WP.	WATERPROOF / WEATHERPROOF
JT	JOINT	W. PT.	WORKING POINT
		W.R.	WATER RESISTANT
K.D.	KILN DRIED	WT.	WEIGHT

REFERENCE STANDARDS

PARTIAL LIST OF APPLICABLE STANDARDS (AS REFERENCED IN 2022 CBC - CHAPTER 35 & CFC):

ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)		2010 EDITION
NFPA 13	STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS	2022 EDITION
NFPA 14	STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS	2019 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 17-A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE	2022 EDITION
NFPA 80	STANDARD FOR FIRE DOOR AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 110	STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS	2019 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHER SYSTEMS	2018 EDITION

BOARD OF TRUSTEES

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DIEGO MARTINEZ	(MEMBER)
KAUSHIK JOGLEKAR	(MEMBER)

DISTRICT SUPERINTENDANT
DR. IVAN CHAIDEZ

CONSULTANTS

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SAN FRANCISCO, CA 94104
(415) 466-2997

CIVIL

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1101 S WINCHESTER BLVD. SUITE H-184
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(408) 261-9800

MECHANICAL

CAPITAL ENGINEERING
20 SUN CENTER DR., STE 100
RANCHO CORDOVA, CA 95670
(916) 851-3500

LANDSCAPE

CARROLL ENGINEERING.
1101 S WINCHESTER BLVD. SUITE H-184
SAN JOSE, CA 95128
(408) 261-9800

ELECTRICAL

AMERICAN CONSULTING ENGINEERS, ELECTRICAL
100 SARATOGA AVE., STE 200
SANTA CLARA CA 95051
(408) 236-2312

ADMINISTRATIVE REQUIREMENTS

1. A COPY OF PART 1 AND 2 CCR SHALL BE KEPT ON SITE AT ALL TIMES.
2. ALL CONSTRUCTION CHANGE DOCUMENTS AND ADDENDA TO BE SIGNED BY THE ARCHITECT, THE OWNER, AND APPROVED BY DSA. CONSTRUCTION CHANGE DOCUMENTS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338.
3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335.
4. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335.
5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO PLACEMENT OF CONCRETE PER SECTION 4-331.
6. INSPECTOR SHALL BE APPROVED BY DSA. MIN CLASS 3 DSA PROJECT INSPECTOR IS REQUIRED. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342.
7. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH 4-334.
8. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM 6) IN ACCORDANCE WITH SECTION 4-336 AND 4-343.
9. THE ARCHITECT AND THE STRUCTURAL ENGINEERS SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341.
10. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343.
11. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THE (RE)CONSTRUCTION OF A SCHOOL BUILDING(S) IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID C.C.R. A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
12. DSA IS NOT SUBJECT TO ARBITRATION.

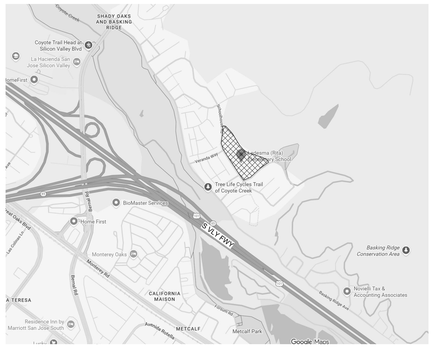
GENERAL NOTES

1. ITEMS OF A CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING OR ELECTRICAL NATURE MAY NOT APPEAR ON THE ARCHITECTURAL DRAWINGS. SEE APPROPRIATE DRAWINGS FOR THESE ITEMS.
2. DIVISION OF THE STATE ARCHITECT (DSA) APPROVAL OF THIS APPLICATION DOES NOT INCLUDE FUTURE OR N.I.C. ITEMS.
3. ALL DEFERRED APPROVAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND THE APPROPRIATE CONSULTING ENGINEER FOR REVIEW & APPROVAL PRIOR TO SUBMITTING TO DSA FOR CHECKING & APPROVAL.
4. THE FIRE SUPPRESSION SYSTEM, I.E. AUTOMATIC SPRINKLERS, HOOD-DUCT SYSTEM, WET STANDPIPES, AND HYDRANTS SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE FIRE & LIFE SAFETY SECTION AT DSA.
5. THE FIRE PROTECTION SIGNALING SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS, INCLUDING FIRE MARSHAL LISTING NUMBER FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN SUBMITTED AND APPROVED BY THE STATE FIRE MARSHAL AT DSA.
6. FOOD HANDLING FACILITIES SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS & CALIFORNIA UNIFORM RETAIL FOOD FACILITIES LAW.
7. PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN, OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE, OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE AND/OR FAILURE TO INSPECT THE CONTRACT DOCUMENTS.
8. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF THE NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS & BY THE SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL EXISTING UTILITIES. ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
9. ALL EXISTING FINISHES OR MATERIALS DAMAGED OR DEMOLISHED DUE TO NEW CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL STATE OR REPLACED WITH NEW MATERIALS FINISHED TO MATCH EXISTING.
10. CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISRUPTION OF STUDENTS OR TEACHERS DURING SCHOOL HOURS. ANY DISRUPTION OF POWER, TELEPHONE, OR HVAC SYSTEMS MUST BE COORDINATED AND APPROVED BY THE DISTRICT REPRESENTATIVE PRIOR TO ANY WORK COMMENCING.
11. COMPLIANCE WITH CFC CHAPTER 33 (FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION) AND CBC CHAPTER 33 (SAFEGUARDS DURING CONSTRUCTION) WILL BE ENFORCED.
12. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND ARE INTENDED TO INCLUDE ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. ANY ITEM OF WORK MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE PROVIDED BY THE CONTRACTOR AS IF SHOWN OR MENTIONED IN BOTH. WITHOUT LIMITING THE CONTRACTOR'S OBLIGATION TO IDENTIFY CONFLICTS FOR RESOLUTION BY THE OWNER, IT IS INTENDED THAT THE MORE STRINGENT, HIGHER QUALITY, AND GREATER QUANTITY OF WORK SHALL APPLY.

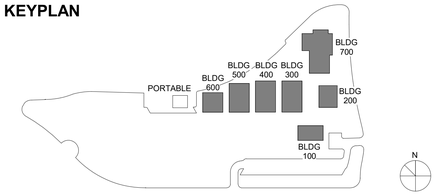
APPLICABLE CODES

1. 2022 BUILDING STANDARDS ADMINISTRATION CODE (PART 1, TITLE 24, CCR)
2. 2022 CALIFORNIA BUILDING CODE (PART 2, VOLUMES 1 AND 2, TITLE 24, CCR)
3. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
4. 2022 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
5. 2022 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
6. 2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
7. 2022 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
8. 2022 CALIFORNIA EXISTING BUILDING CODE (PART 10, TITLE 24, CCR)
9. 2022 CALGREEN BUILDING STANDARDS CODE (PART 11, TITLE 24, CCR)
10. 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
11. TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

LOCATION MAP



KEYPLAN



SYMBOL LEGEND

REFER TO ARCHITECTURAL FLOR PLAN SHEETS AND CONSULTANT DRAWINGS FOR ADDITIONAL SYMBOLS AND REFERENCE DESIGNATIONS

DIMENSION REFERENCE

10" FACE OF OBJECT

10" CENTER LINE OF OBJECT

TAGS AND MARKERS

0 PLAN REFERECE GRID

STRUCTURAL GRID LINE

1 REVISION MARKER

Room name / 101 ROOM LABEL, ROOM NAME, ROOM NUMBER

1 WALL TYPE MARKER

101a DOOR ID, DOOR DESIGNATION, ROOM NUMBER

℄ CENTER LINE

XX-1 FINISH TAG

XX-1 FLOOR FINISH TAG

XX.XXX KEYNOTE
ITEMS TO BE PROVIDED NEW, UON.

MATERIALS REFERENCE

EARTH
GRAVEL / ROCK
CONCRETE
CONCRETE BLOCK (CMU)
SAND, GROUT, OR PLASTER
STEEL
PLYWOOD
WOOD, CONTINUOUS MEMBER
WOOD, BLOCKING
WOOD, FINISH GRADE

CABINET TYPES

PC - PREFINISHED CABINETS
PM - PREFINISHED MOBILE CABINETS
PR - PREFINISHED MOVEABLE CABINETS
PU - PREFINISHED UTILITY CABINETS
PS - SCIENCE CABINETS

NOTE: REFER TO SPECIFICATIONS FOR SPECIFIC CABINET TYPE REQUIREMENTS.

SECTION REFERENCE

SECTION NUMBER
1 SIM A12.08 REFERENCE LABEL WHERE OCCURES
SHEET NUMBER

DETAIL REFERENCE

DETAIL NUMBER
1 SIM A12.08 REFERENCE LABEL WHERE OCCURES
SHEET NUMBER

DEFERRED APPROVAL ITEMS

1. NONE

SCOPE OF WORK

THIS PROJECT INCLUDES BUT IS NOT LIMITED TO SITE IMPROVEMENTS, REPLACEMENT OF ROOF TOP UNITS, AND MODERNIZATION OF RESTROOMS (FINISHES, FIXTURES, AND PARTITIONS).

SITE IMPROVEMENTS INCLUDE UPDATES TO ADA PARKING, NEW PASSENGER DROP OFF, ASSOCIATED ACCESS UPGRADES, AND EGRESS LIGHTING IMPROVEMENTS.

REPLACEMENT OF ROOFTOP UNITS OCCUR AT BUILDINGS 100, 200, 300, 400, 500, 600, AND 700. RESTROOM UPGRADES OCCUR AT BUILDINGS 300 AND 400.

ALTERNATES

DEDUCTIVE ALTERNATE 1: ALL WORK WITHIN ALL GENDER RESTROOM TO BE REMOVED.

DRAWING INDEX

T1 TITLE SHEET

CIVIL & LANDSCAPE

C0.1 NOTES, LEGEND & INDEX
C1.1 DEMOLITION PLAN
C2.1 GRADING & DRAINAGE PLAN
C3.1 HORIZONTAL CONTROL PLAN
C4.1 DETAILS
C5.1 MATERIAL & DETAIL REFERENCE PLAN
C6.1 CONSTRUCTION DETAILS
C6.2 CONSTRUCTION DETAILS
L1.1 IRRIGATION PLAN
L2.1 PLANTING PLAN
L3.1 IRRIGATION & PLANTING DETAILS

ARCHITECTURAL

A0.01 EXIT ANALYSIS - SITE
A0.02 EXIT ANALYSIS - BLDGS. 300 & 400
A1.01 DEMOLITION SITE PLAN
A1.02 NEW SITE PLAN & CODE ANALYSIS
A1.05 SITE DETAILS
A1.06 SITE DETAILS
A2.01 DEMOLITION PLANS, ENLARGED PLANS, & RCPS - BLDGS. 300 & 400
A2.02 DEMOLITION FLOOR PLANS - BLDGS 100, 200, 500, 600, & 700
A3.01 NEW FLOOR PLANS, ENLARGED PLANS, AND RCPS - BLDGS. 300 & 400
A3.02 NEW FLOOR PLANS - BLDGS 100, 200, 500, 600, & 700
A5.01 DEMOLITION ROOF PLAN - BLDGS. 300 & 400
A5.02 DEMOLITION ROOF PLAN - BLDGS. 100, 200, & 700
A5.03 DEMOLITION ROOF PLAN - BLDGS. 500 & 600
A5.04 NEW ROOF PLAN - BLDGS. 300 & 400
A5.05 NEW ROOF PLAN - BLDGS. 100, 200, & 700
A5.06 NEW ROOF PLAN - BLDGS. 500 & 600
A6.01 EXTERIOR ELEVATIONS
A6.02 EXTERIOR ELEVATIONS
A8.10 EXTERIOR DETAILS
A9.01 WALL TYPES
A9.10 INTERIOR DETAILS
A11.01 OPENING SCHEDULE, FINISH SCHEDULE, LEGEND & DETAILS
A12.01 INTERIOR ELEVATIONS

STRUCTURAL

S1.00 GENERAL NOTES
S2.01 BLDGS 100, 200 & 700 ROOF FRAMING PLANS
S2.02 BLDGS 300 & 400 ROOF FRAMING PLANS
S2.03 BLDGS 500 & 600 ROOF FRAMING PLANS
S9.01 METAL STUD FRAMING DETAILS

MECHANICAL

M0.01 MECHANICAL LEGENDS AND NOTES
M0.02 MECHANICAL SCHEDULES
M2.01 MECHANICAL DEMOLITION FLOOR PLAN - BLDG 100, 200, & 700
M2.02 MECHANICAL DEMOLITION FLOOR PLAN - BLDG. 300 & 400
M2.03 MECHANICAL DEMOLITION FLOOR PLAN - BLDG. 500 & 600
M2.04 MECHANICAL FLOOR PLAN - BLDG 100, 200, & 700
M2.05 MECHANICAL FLOOR PLAN - BLDG 300 & 400
M2.06 MECHANICAL FLOOR PLAN - BLDG 500 & 600
M5.01 MECHANICAL DEMOLITION ROOF PLAN - BLDGS 100, 200, & 700
M5.02 MECHNICAL DEMOLITION ROOF PLAN - BLDG 300 & 400
M5.03 MECHANICAL DEMOLITION ROOF PLAN - BLDG 500 & 600
M5.04 MECHANICAL ROOF PLAN - BLDG 100, 200 & 700
M5.05 MECHANICAL ROOF PLAN - BLDGS 300 & 400
M5.06 MECHANICAL ROOF PLAN - BLDG 500 & 600
M6.01 MECHANICAL DETAILS & CONTROLS
M6.02 MECHANICAL DETAILS & CONTROLS
M7.01 MECHANICAL TITLE 24 DOCUMENTATION
M7.02 MECHANICAL TITLE 24 DOCUMENTATION
M7.03 MECHANICAL TITLE 24 DOCUMENTATION
M7.04 MECHANICAL TITLE 24 DOCUMENTATION
M7.05 MECHANICAL TITLE 24 DOCUMENTATION

PLUMBING

P0.01 PLUMBING COVER SHEET
P0.02 PLUMBING FIXTURE SCHEDULE
P2.02 PLUMBING DEMOLITION FLOOR PLAN - BLDG 300 & 400
P2.05 PLUMBING FLOOR PLAN - BLDG 300 & 400
P3.01 PLUMBING DEMOLITION ENLARGED PLANS
P3.02 PLUMBING ENLARGED PLANS
P5.01 PLUMBING DEMOLITION ROOF PLANS - BLDG 100, 200 & 700
P5.02 PLUMBING DEMOLITION ROOF PLANS - BLDG 300 - 400
P5.03 PLUMBING DEMOLITION TOOF PLANS - BLDGS 500 - 600
P5.04 PLUMBING ROOF PLANS - BLDG 100, 200 & 700
P5.05 PLUMBING ROOF PLANS - BLDG 300 - 400
P5.06 PLUMBING ROOF PLANS - BLDGS 500 - 600
P6.01 PLUMBING DETAILS

ELECTRICAL

E0.1 ELECTRICAL COVER SHEET
E0.2 FIXTURE SCHEDULE
E0.3 TITLE 24 LIGHTING
E1.1 OVERALL ELECTRICAL SITE PLAN
E1.2 SITE LIGHTING EGRESS PLAN
E2.0 BLDG. 300 & BLDG. 400 RESTROOM ELECTRICAL PLANS - DEMO
E2.1 BLDG. 300 & BLDG. 400 RESTROOM PLANS - NEW
E3.1 ELECTRICAL ROOF PLAN - BLDG. 100, 200 & 700
E3.2 ELECTRICAL ROOF PLAN - BLDG. 300 & 400
E3.3 ELECTRICAL ROOF PLAN - BLDG. 500 & 600
E4.1 ELECTRICAL DETAILS
E4.2 ELECTRICAL DETAILS
E5.1 PANEL SCHEDULES

TOTAL SHEET COUNT: 87

*

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. 01-122831 , File No. 43-41)

[X] The drawings or sheets listed on the cover or index sheet (*)
[ ] 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 sheet listed on the cover or index sheet
[ ] This drawing or page

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

Signature / Date

Architect designated to be in general responsible charge

JOHN DIFFENDERFER

Print Name

C-25840 / 07/31/27

License Number / **Expiration Date**

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

Signature / Date

Architect or Engineer delegated responsibility for this portion of the work

Print Name

License Number / Expiration Date

aedis architects
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PROJECT

LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — JOHN DIFFENDERFER — NO. C-25840 — REN. 07/31/27 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

SHEET

TITLE SHEET

DATE 12.29.2025
JOB # 2025014
SHEET # T1

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GENERAL NOTES

1. All work shall be done in accordance with the following:
   a) Applicable sections of the State of California Department of Transportation Standard Specifications, latest edition, hereinafter called "Caltrans";
   b) California Plumbing Code and California Building Code Provisions
   c) AWWA standards and specifications;
   d) City of San Jose Standard Details and Specifications where applicable;
   e) These plans and details shown hereon;
   f) Standards of the United States Department of Labor, Occupational Safety and Health Administration, Office of Standards and rules of the State Division of Industrial Safety.
   g) Latest edition of the California State Code of Regulations Title 24.
   h) The Project Specifications

Where conflicts exist between any of the above listed specifications, the most stringent listed specification shall prevail.

2. It is the responsibility of the Contractor to secure all permits necessary to perform the work, including but not limited to, work in the public right-of-way, grading, tree removal, and utility modifications.

3. Contractor shall supply all equipment, labor, and materials necessary to perform the work shown on this plan.

4. It shall be the responsibility of the various contractors to coordinate their work so as to eliminate conflicts and work toward the general good and completion of the entire project.

5. All workmanship and materials furnished by Contractor shall be of the kind and quality described in the specifications and shall be first class throughout. Neither final acceptance nor final payment by Owner shall relieve the Contractor of responsibility for faulty materials or workmanship.

6. In the event of any conflict of information shown in these plans or any conflict between these plans and the intent of a consistent and functional product, the Contractor shall so notify the Owner in writing, upon which notice the Owner shall resolve the conflict by the issuance of a written order, revised plans or both. The Contractor shall bear full cost and responsibility for work affected by such conflicts and performed by Contractor prior to such notice to the Owner and issuance of such order and/or revised plans.

7. Contractor shall provide adequate dust control at all times as required by Owner's representative.

8. Contractor shall exercise all necessary caution to avoid damage to any existing trees, or surface improvements, or to any existing drainage structure, water structures, sewer cleanouts, manholes, or junction boxes for underground electric, telephone, or cable TV, or storm sewer, sanitary sewer, water line, and underground utilities, which are to remain in place and shall bear full responsibility for any damage thereto.

9. All known existing utility lines are shown for information only. Contractor shall exercise all necessary caution to avoid damage to any existing utility lines or facilities to remain in place, whether or not such lines or facilities are shown on these plans, and shall bear full responsibility for any damage thereto. Contractor is advised to Contact Underground Service Alert (USA) at (800) 642-2444 or a private Underground Locater Service (at contractor's expense) and the affected utility company for marking underground lines prior to beginning work.

10. Inspection of work: The City of San Jose Public Works Department will inspect all work involving conformance to encroachment permit. A representative of Owner will inspect all work, including grades and compaction of earthwork. Contractor shall notify the City of San Jose Public Works at least forty eight (48) hours prior to work within the public ROW.

11. Engineer shall have no responsibility for Contractor's work methods and procedures, jobsite conditions, jobsite safety or adherence to safety procedures and requirements.

12. The Contractor agrees that, in accordance with generally accepted construction practices, the Contractor will be required to assume sole and complete responsibility for jobsite conditions during the course of construction of the project, including safety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours. The contractor agrees to defend, indemnify and hold Owner and Engineer harmless from any and all liability, real or alleged, in connection with the performance of the work on this project, exempting liability arising from the sole negligence of the Engineer or Owner.

13. Parking lot striping shall be laid out in accordance with the Horizontal Control Plan, and in accordance with the City of San Jose Standard specifications.

14. Contractor shall provide appropriate traffic control measures as outlined in the City of San Jose specifications and as directed by the City Engineer.

GRADING AND PAVING NOTES

1. Work shall consist of all clearing, grubbing, and stripping, preparation of land to be filled, excavation, spreading, compaction and control of the fill, and all subsidiary work necessary to complete the grading to conform to the lines, grades and slopes, as shown on the accepted plans.

2. Not Used.

3. Not Used.

4. The Contractor shall notify the soils testing firm (hired by the disctrict) during construction at least forty-eight (48) hours prior to commencement of any grading operations on-site.

5. A representative of the soils testing firm shall be on site during grading operations and shall perform such testing as deemed necessary. The representative shall observe the grading operation for conditions that should be corrected, and identify those conditions with recommended corrective measures to the Contractor.

6. In the event that any unusual conditions not covered by these notes are encountered during grading operations, the soils testing firm shall be immediately notified for recommendations.

7. All existing trash, debris, roots, tree remains and other rubbish shall be removed from the site so as to leave the areas that have been disturbed with a neat and finished appearance free from unsightly debris. No burning shall be permitted.

8. Contractor shall grade to the line and elevations shown on the plan within the following horizontal and vertical tolerance, in the areas indicated:

	Horizontal	Vertical
a. Building Pad Subgrade	0.50'+	0.05'+
b. Driveway and parking area subgrade preparation	0.05'+	0.05'+

9. All aggregate base material and the handling and placement thereof shall be in accordance with the Caltrans Standard Specifications. Aggregate base materials shall be Class II.

10. Compacted building pads shall extend 5 feet minimum beyond building footprint.

11. Asphalt concrete (AC) shall be Type A, 3/4" maximum aggregate size for base course and 1/2" maximum aggregate size for surface course, as specified for surface course material in the Caltrans Specification. 2" thickness may be placed in one lift.

12. SS-I emulsified asphalt paint binder conforming to the provisions of the Caltrans Specification shall be applied at the rate of 0.07+ gallons per square yard to existing asphalt concrete surface and vertical concrete surfaces to receive asphalt concrete.

13. SS-I emulsified liquid asphalt seal coat conforming to the provisions of the Caltrans Specifications shall be diluted with equal parts water and applied at the rate of 0.15+ gallons per square yard to surface of the new finished asphalt paving surface and existing asphalt paving surfaces to remain in place. Existing asphalt surfaces shall be cleaned prior to seal coat operation.

14. Contractor shall adjust all inlets, valve boxes, manhole rims, and sewer cleanouts to new finish grade.

15. Materials handling and placement of Portland Cement Concrete shall be in accordance with applicable sections of the Caltrans Standard Specifications and these plans and details shown hereon. Concrete to be Class A, 6 sack, 3000 PSI concrete.

UNDERGROUND NOTES

1. Contractor shall expose and verify location and elevation of existing utilities, including sanitary and storm sewers, and water lines before constructing new facilities. Contractor shall cap existing irrigation lines where necessary so that the remaining irrigation system will continue to be operational for the existing landscaping to remain.

2. Materials for pipe, storm water inlets and cleanouts and installation procedures shall be in accordance with applicable California Building Code sections and the City of San Jose Standard Specifications, the Project Specifications and these plans and details shown hereon.

   Storm Sewer Pipe designated "SD" shall be SDR 26 PVC pipe or HDPE ADS N-12 pipe appropriate for such use. Storm Sewer Pipe designated "DIP" shall be ductile iron pipe appropriate for such use.

   Storm Sewer Pipe designated "RCP" shall be reinforced concrete pipe appropriate for such use.

   Sanitary Sewer Pipe designated "SS" shall be vitrified clay pipe or SDR 26 PVC pipe appropriate for such use.

   Water Pipe designated "WATER" or "W" shall be Schedule 80 PVC pipe appropriate for such use

   Fire Lines designated "FIRE LINE" or "F" shall be AWWA C900 PVC – DR 18 pipe appropriate for such use

3. Ensure grates are ADA compliant for all existing inlets to remain in travelled access paths, subject to pedestrian traffic. Replace as necessary.

4. All trench excavation and backfill for sewer lines shall conform to requirements of the City of San Jose Standard Specifications. Jetting of backfill materials to achieve compaction is not allowed.

5. All trenches and excavations shall be constructed in strict compliance with the applicable sections of California and Federal O.S.H.A. requirements and other applicable safety ordinances. Contractor shall bear full responsibility for trench shoring design and installation.

6. Materials for pipe and installation requirements for domestic water lines shall be in accordance with applicable California Plumbing Code sections and the City of San Jose Standard Specifications and these plans and details shown hereon.

7. Soils on the site have been found to be corrosive. All buried metallic pipes, fittings and appurtenances associated with the water pipelines shall be encased in 8-mil polyethylene per AWWA C-105. All buried copper water service lines shall be encased in 6-mil polyethylene sleeve in accordance with AWWA C-105

ABBREVIATIONS

AB	AGGREGATE BASE		
AC	ASPHALT CONCRETE	LTB	LIME TREATED BASE
ACC	ACCESSIBLE	(ME)	MATCH EXISTING ELEVATION
ARCH	ARCHITECTURAL	MH	MANHOLE
BS	BOTTOM OF STEP	ML	MONUMENT LINE
BW	BACK OF WALK ELEVATION	(N)	NEW
BOW	BOTTOM OF WALL ELEVATIONS	PAV	PAVEMENT SURFACE ELEVATION
CB	CATCH BASIN	℄	PROPERTY LINE
CI	CAST IRON	PP	PERFORATED PIPE
℄	CENTER LINE	RIM	RIM ELEVATION
CLF	CHAIN LINK FENCE	RS	TOP OF RAT SLAB ELEVATION
C&G	CURB AND GUTTER	RWL	RAIN WATER LEADER
CONC	CONCRETE	S=	SLOPE
C	CONCRETE ELEVATION	SD	STORM DRAIN
DWY	DRIVEWAY	S.A.D.	SEE ARCHITECT DRAWINGS
E	ELECTRICAL	S.E.D.	SEE ELECTRICAL DRAWINGS
(E)	EXISTING	S.L.D.	SEE LANDSCAPE DRAWINGS
EBOX	ELECTRICAL BOX	S.P.D.	SEE PLUMBING DRAWINGS
EC	EDGE OF CONCRETE	SG	SUBGRADE ELEVATION
EP	EDGE OF PAVEMENT	SS	SANITARY SEWER
EV	ELECTRICAL VAULT	SSCO	SANITARY SEWER CLEANOUT
F	FIRE LINE	S/W	SIDEWALK
FG	FINISH GRADE	STLT	STREET LIGHT
FNC	FENCE	T	TELEPHONE
FH	FIRE HYDRANT	TC	TOP OF CURB
FF	FINISHED FLOOR ELEVATION	TD	TRENCH DRAIN
FL	FLOW LINE	TILE	TOP OF TILE ELEVATION
FOC	FACE OF CURB	TOE	TOE OF BANK
G	GAS	TOW	TOP OF WALL ELEVATION
GB	GRADE BREAK	TP	TELEPHONE POLE
GND	GROUND ELEVATION	TR	TOP OF RAMP
JP	JOINT POLE	TS	TOP OF STEP
ICV	IRRIGATION CONTROL VALVE	TSB	TRAFFIC SIGNAL BOX
INV	INVERT	VLT	VAULT
LF	LINEAR FEET	W	WATER
LS	LANDSCAPE	WV	WATER VALVE

SHEET INDEX

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IRRIGATION & PLANTING DETAILS	L3.1

LEGEND

DESCRIPTION	PROPOSED	EXISTING
PROPERTY LINE		
CENTERLINE		
CURB & GUTTER		
VERTICAL CURB		
ASPHALT EDGE / SAWCUT		
EXPANSION JOINT		
SCORE JOINT		
VALLEY GUTTER		
TRENCH DRAIN		
PERF PIPE		
RAINWATER LEADER		
STORM LINE		SD
SANITARY LINE		SS
WATER LINE		W
GAS LINE	G	
FIRE SPRINKLER	FS	
FIRE LINE	F	
FENCE		
ROLLING FENCE		
CITY CONFORM		
ADA DROP OFF		
FIRE LANE		
TYPICAL RAMP		
ACCESSIBLE RAMP		
TRUNCATED DOMES		
STORM DRAIN INLET		
AREA DRAIN		
BUBBLER BOX		
END SECTION		
END SECTION MITERED DRAIN GRATE		
DRY WELL CONDENSATE		
BOLLARD		
HYDRANT		
FIRE DEPARTMENT CONNECTION (FDC)		
POST INDICATOR VALVE (PIV)		
THRUST BLOCK		
SHUT OFF VALVE (SOV)		
CHECK VALVE		
BACKFLOW		
ELECTROLIER		
ELECTROLIER CONDUIT & CABLE W/PULL BOX		
DIRECTION & RATE OF SLOPE	0.015	
SWALE		
CONTOUR		
LIGHTING POLE		
EV CHARGING STATION		
ASPHALT PAVING – AUTO		
ASPHALT PAVING – FIRE		
ASPHALT PAVING – PEDESTRIAN		
CONCRETE PAVING – PEDESTRIAN		
CONCRETE PAVING – VEHICULAR		
BIO-RETENTION AREA		
SYNTHETIC TURF		
UNIT PAVERS		

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DSA FILE NUMBER 43-41

APPL # 01-122831

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SHEET

NOTES, LEGEND & INDEX

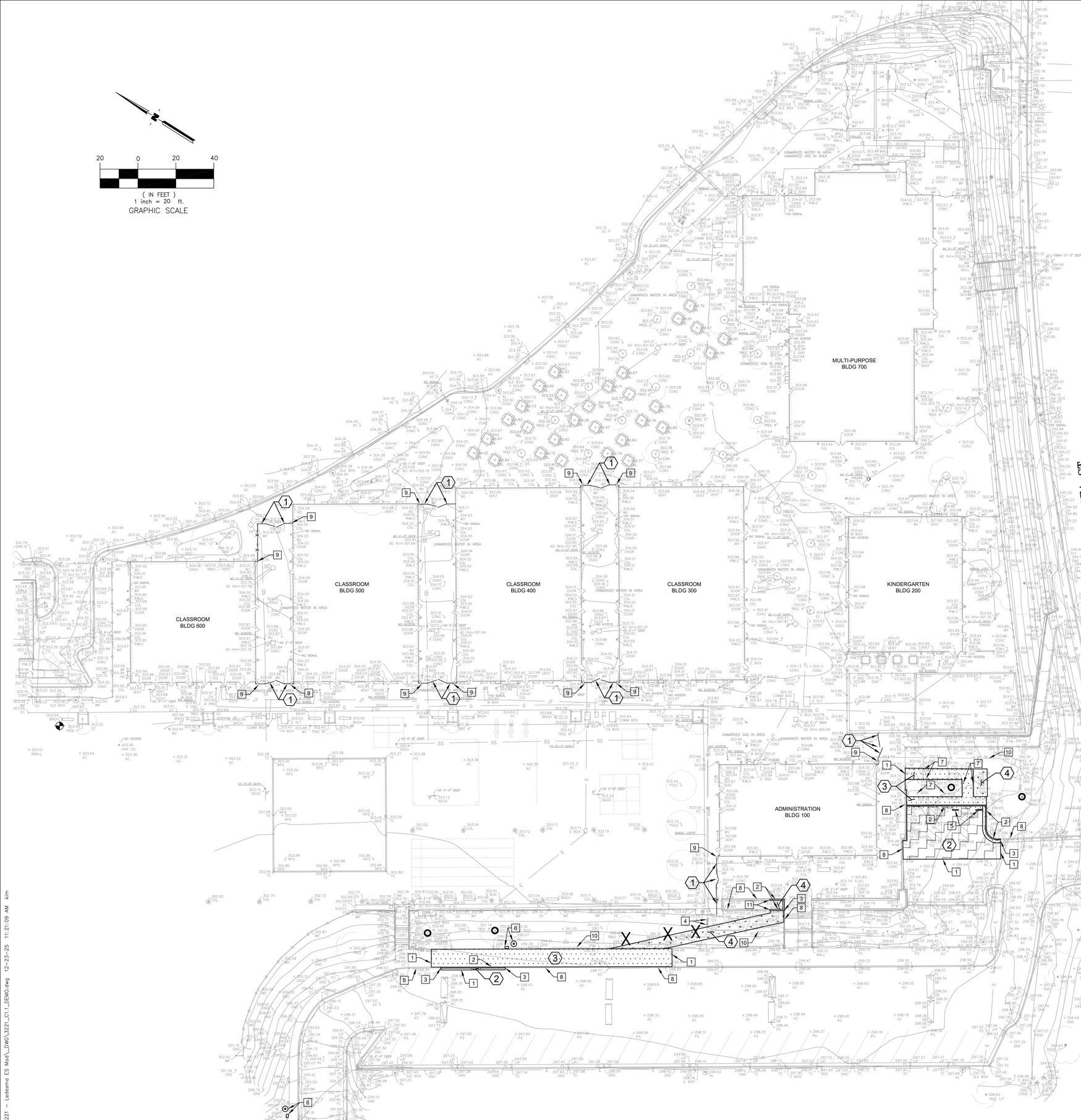
DATE 12.29.2025

JOB # 2025014 **CEI #** 3221

SHEET #

C0.1

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DEMOLITION LEGEND

	DESCRIPTION	SYMBOL
	TREE TO REMAIN. PROTECT FROM DAMAGE. SEE SPECIAL PROVISION 01 56 39 TREE AND PLANT PROTECTION AND LANDSCAPE DRAWINGS FOR TREE PROTECTION NOTES.	o
	TREE TO BE REMOVED. REMOVE ALL ROOTS.	X

KEYNOTE	DESCRIPTION	SYMBOL
1	FENCE / GATES/ FOUNDATIONS TO BE REMOVED	x x x
2	ASPHALT PAVING & AGGREGATE BASE ROCK TO RE REMOVED. REMOVE HEADER BOARD, TYP.	
3	CONCRETE TO BE REMOVED. REMOVE AGGREGATE BASE.	
4	SHRUBS AND/OR LANDSCAPING TO BE REMOVED. GRUB OUT ALL VEGETATION / REMOVE BARK / WOOD CHIPS. REMOVE PLANTER BOXES. REMOVE ANY IRRIGATION LINES OR VALVES.	

KEYNOTE	DESCRIPTION
1	SAWCUT ASPHALT OR REMOVE CONCRETE TO NEAREST CONTROL JOINT.
2	REMOVE CURB / CURB & GUTTER.
3	EXTENT OF REMOVAL OF CURB / CURB & GUTTER / VALLEY GUTTER / CMU WALL.
4	IRRIGATION VALVE / BOX TO REMAIN, SEE L1.1 FOR DETAILS.
5	REMOVE PARKING BUMPER.
6	REMOVE ELECTRICAL POLE, BASE & PULL BOX. S.E.D., SHEET E1.1
7	REMOVE HANDRAILS / SIGNAGE, POLE & FOUNDATION.
8	CURB / WALL / HANDRAIL & CURB & GUTTER AS OCCURS TO REMAIN. PROTECT FROM DAMAGE.
9	SIGN/ POLE / COLUMN/ FENCE / GATE TO REMAIN. PROTECT FROM DAMAGE.
10	ELECTRICAL LINE AND BOX TO REMAIN. PROTECT FROM DAMAGE. ADJUST RIM TO NEW FG.
11	REMOVE CMU WALL AND FOUNDATIONS, SALVAGE CONCRETE WALL CAP FOR REINSTALLATION ON (N) CMU BLOCK WALL, REFER TO DETAIL 8 / C6.1.

NOTES:

1. THE LIMITS OF DEMOLITION SHOWN HEREON ARE TO PROVIDE THE CONTRACTOR WITH A GENERAL SCOPE OF WORK. PRECISE LIMITS OF PAVEMENT REMOVAL AND GRADING SHOULD BE TAKEN FROM THE GRADING AND DRAINAGE PLAN. THE CONTRACTOR SHOULD ALSO REFERENCE LANDSCAPE ARCHITECT PLANS, ARCHITECTURAL PLANS, AND THE CONSTRUCTION DOCUMENTS FOR A COMPLETE SCOPE OF WORK. (VERIFY ALL DEMOLITION WITH THE SCHOOL DISTRICT).

2. DEMOLITION WORK SHALL CONFORM TO CAL GREEN CODE SECTIONS 5.408.3 (CONSTRUCTION WASTE REDUCTION BY AT LEAST 50%) AND 5.408..4 (EXCAVATED SOIL AND LAND CLEARING DEBRIS), AND LOCAL CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS. THE MOST STRINGENT CODE SHALL PREVAIL.

3. ALL SIGNS, POSTS, AND FOOTINGS TO BE REMOVED WITHIN THE LIMITS OF DEMOLITION UNLESS NOTED OTHERWISE.

4. REFER TO ORIGINAL DESIGN DRAWINGS, AVAILABLE FROM DISTRICT, FOR EXISTING BUILDINGS (FOOTINGS, MATERIALS, ETC.).

5. EXISTING TURF TO REMAIN. LANDSCAPE CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR IF REPLACEMENT IS REQUIRED DUE TO STAGING, CONSTRUCTION ACCESS, OR CONSTRUCTION ACTIVITY. REPAIR WITH SOD TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. TURF AREAS FENCED DURING CONSTRUCTION SHALL BE MAINTAINED (MOWED, WATERED, AND FERTILIZED) BY CONTRACTOR.

WHERE NEW SOD IS INSTALLED, SHOVEL CUT EDGE OF EXISTING TURF VERTICAL AND STRAIGHT, AMEND SOIL AND GRADE TO RECEIVE NEW SOD FLUSH WITH EXISTING EDGES. DO NOT SCALE SOD REPAIR FROM THIS DRAWING. COORDINATE WITH GENERAL CONTRACTOR FOR EXTENT OF REPAIR REQUIRED TO RESTORE TURF DUE TO CONSTRUCTION ACTIVITY.

NOTE:
SEE LANDSCAPE SPECS AND DRAWINGS FOR TREE PRESERVATION REQUIREMENTS

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SHEET

DEMOLITION PLAN

DATE 12.29.2025

JOB # 2025014 **CEI #** 3221

SHEET #

C1.1

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20 0 20 40

(IN FEET)
1 inch = 20 ft.
GRAPHIC SCALE

(E) CLASSROOM BLDG 600

(E) CLASSROOM BLDG 500

(E) CLASSROOM BLDG 400

(E) CLASSROOM BLDG 300

(E) KINDERGARTEN BLDG 200

(E) ADMINISTRATION BLDG 100

(E) MULTI-PURPOSE BLDG 700

CHELSEA ST.

Key Ramp

GRADING PLAN NOTES

KEYNOTE	DETAIL NAME
1	SAWCUT AND CONFORM TO (E) ASPHALT
2	CONFORM TO (E) CONCRETE AT NEAREST CONTROL JOINT
3	27 LF - CURB TRANSITION (6"- 1.7')
4	(E) WALL TO REMAIN
5	(N) ACCESSIBLE PARKING SIGNAGE, S.A.D.

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GRADING & DRAINAGE PLAN

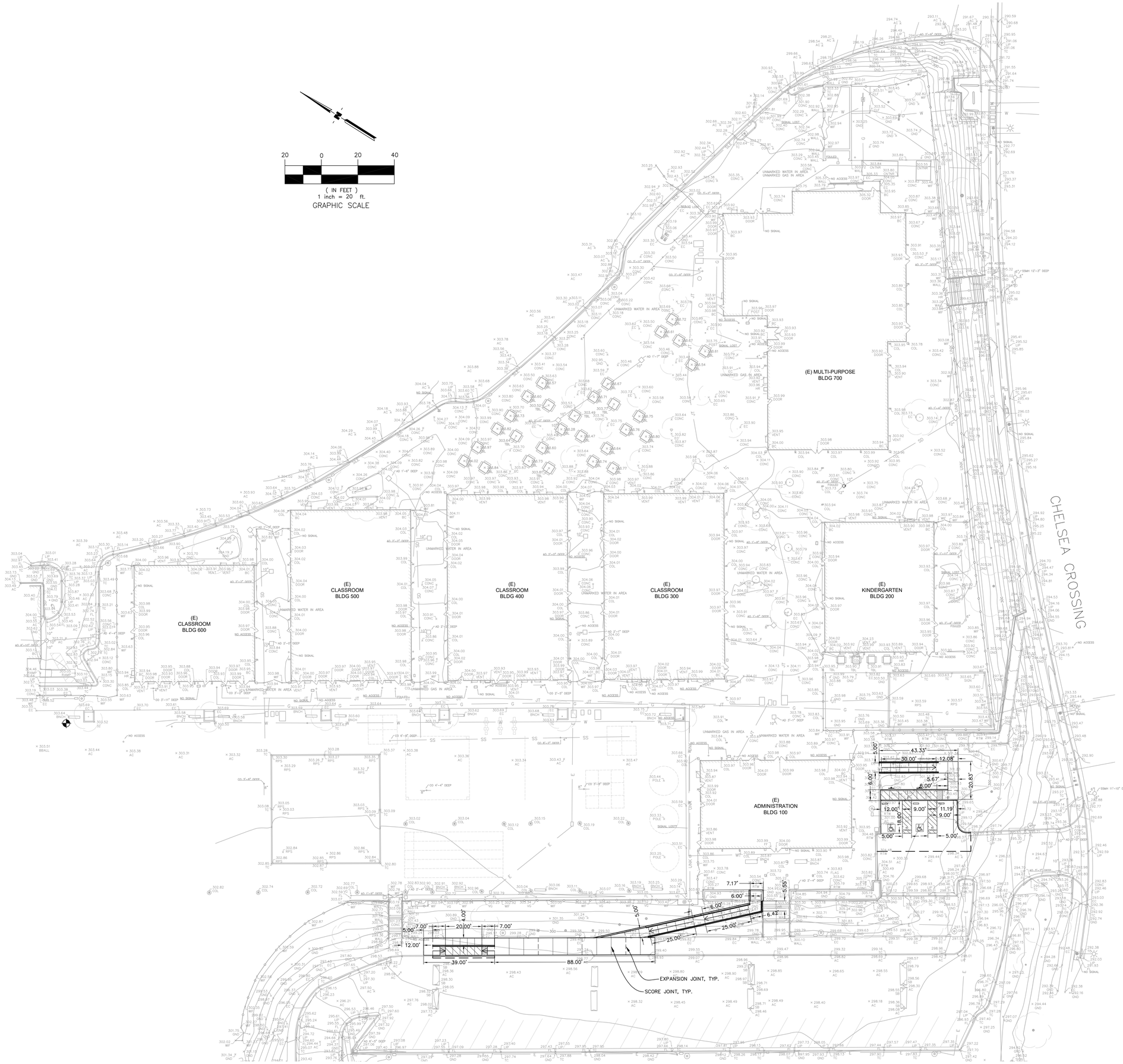
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SHEET #

C2.1

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PROJECT

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HORIZONTAL CONTROL PLAN

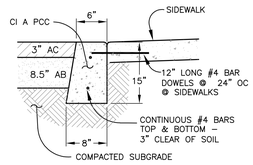
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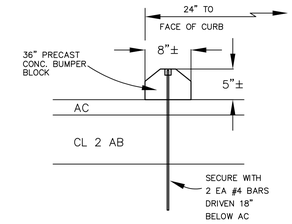
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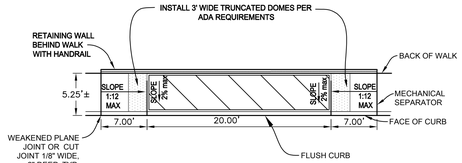
4 FLUSH VERTICAL CURB

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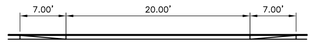


1 PARKING BUMPER

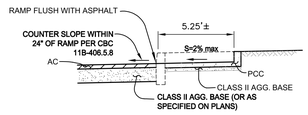
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PLAN



ELEVATION



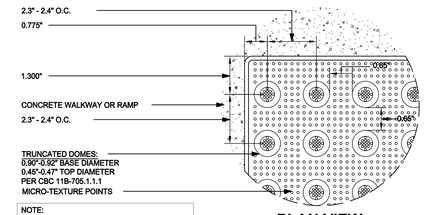
SECTION

NOTES:

1. ALL SLOPED SURFACES SHALL BE ROUGH BROOM FINISH FOR MARKED CONTRAST FROM SIDEWALK FINISH.
2. SLOPES WITHIN VEHICLE PULL-UP SPACE SHALL NOT EXCEED 1:48. (CBC 11B-503.4)

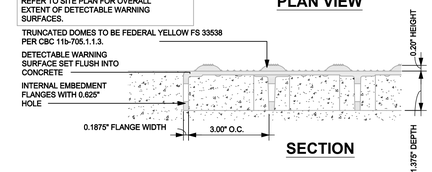
5 PASSENGER DROP OFF / LOADING RAMP

SCALE: NTS



NOTE:
REFER TO SITE PLAN FOR OVERALL EXTENT OF DETECTABLE WARNING SURFACES.

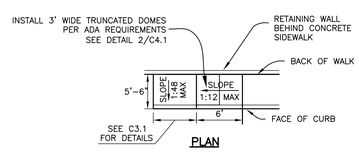
PLAN VIEW



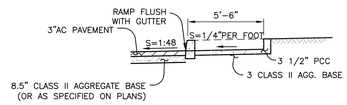
SECTION

2 TRUNCATED DOMES

SCALE: NTS



PLAN



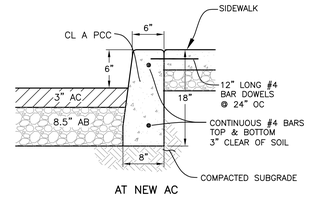
SECTION A–A

NOTES:

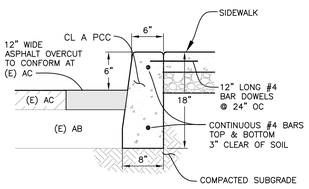
1. ALL SLOPED SURFACES SHALL BE ROUGH BROOM FINISH FOR MARKED CONTRAST FROM SIDEWALK FINISH.
2. SLOPES WITHIN VEHICLE PULL-UP SPACE SHALL NOT EXCEED 1:48. (11B-503.4)

6 CURB-CUT RAMP

SCALE: NTS



AT NEW AC



AT EXISTING AC

3 VERTICAL CURB

SCALE: NTS

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PROJECT

LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

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relevant per example

STAMP

REGISTERED PROFESSIONAL ENGINEER
MATTHEW PAUL MARTUS
No. C 68770
Exp. 09/30/27
CIVIL
STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

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SHEET

DETAILS

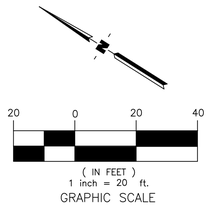
DATE 12.29.2025

JOB # 2025014 **CEI #** 3221

SHEET #

C4.1

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MATERIAL & DETAIL REFERENCE NOTES

1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND SERVICES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO BEGINNING WORK. CONTACT DISTRICT REPRESENTATIVE SHOULD ANY CONFLICTS ARISE.
3. SCORE AND EXPANSION JOINTS SHALL BE LOCATED AS INDICATED ON THIS PLAN. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS WHEN NECESSARY TO ALIGN SCORE AND EXPANSION JOINTS WITH RELATIVE ELEMENTS AS SHOWN ON THE PLAN.
4. DETAIL CALLOUTS ON PLAN ARE PROVIDED FOR CONVENIENCE AND GENERAL REFERENCE ONLY. CONTRACTOR SHALL PROVIDE QUANTITY OF PRODUCTS, ELEMENTS AND MATERIALS AS SYMBOLIZED ON PLANS, ASSOCIATED DETAILS AND SPECIFICATIONS.
5. FOR EACH CONCRETE FINISH SPECIFIED, CONTRACTOR SHALL POUR A 2'x2' SAMPLE FOR APPROVAL BY DISTRICT REPRESENTATIVE PRIOR TO INSTALLING CONCRETE PAVING.
6. CIVIL ENGINEER IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. IF WORK WITHIN THIS SCOPE REQUIRES REMOVAL, RENOVATION, OR DEMOLITION OF EXISTING TO REMAIN ELEMENTS, BOTH SURFACE AND KNOWN SUBSURFACE CONDITIONS, CONTRACTOR SHALL INCLUDE IN THE BID SUFFICIENT LABOR AND MATERIALS TO RESTORE EXISTING TO REMAIN IMPROVEMENTS IN-KIND AND AS ACCEPTABLE TO DISTRICT REPRESENTATIVE.
7. CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED, STOCKPILED AND REINSTALLED INTO ALL PROPOSED LANDSCAPE AREAS PER LANDSCAPE SPECIFICATION SECTION 32 90 00. IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL PER LANDSCAPE SPECIFICATION SECTION 32 90 00.
8. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT THEIR OWN EXPENSE, SURFACE AND SUBSURFACE SITE FEATURES TO REMAIN, INCLUDING BUT NOT LIMITED TO ANY STRUCTURES, FENCES, WALLS, PAVING SURFACES, PLANT MATERIAL AND/OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
9. CONTRACTOR SHALL ADJUST EXISTING UTILITY BOXES TO BE FLUSH WITH PROPOSED GRADES.
10. REFER TO CONSTRUCTION DETAILS ON SHEETS C4.1 AND C6.1 - C6.2
11. REFER TO THE FOLLOWING SPECIFICATION SECTIONS:

01 56 39	TEMPORARY TREE AND PLANT PROTECTION
05 52 00	METAL RAILINGS
32 12 16	ASPHALT PAVING
32 13 13	CONCRETE WORK
32 32 19	UNIT MASONRY RETAINING WALLS
32 84 00	PLANTING IRRIGATION
32 90 00	LANDSCAPE PLANTING

PAVING DETAILS

KEYNOTE	DETAIL NAME	SYMBOL	DETAIL REFERENCE
P1A	CONCRETE PAVING - PEDESTRIAN		1 / C6.1
P2	(N) CONCRETE TO (E) CONCRETE (EXPANSION JOINTS)		2 / C6.1
P3A	ASPHALT PAVING - AUTO		3 / C6.1
P4	(N) ASPHALT TO (E) ASPHALT (ASPHALT SAW CUT EDGE)		4 / C6.1
P5	PARKING BUMPERS		1 / C4.1
P6	TRUNCATED DOMES		2 / C4.1

CONCRETE CURBS AND WALLS

KEYNOTE	DETAIL NAME	SYMBOL	DETAIL REFERENCE
C1	CONCRETE CURB - TYPE I		5 / C6.1
C2	CONCRETE CURB - TYPE II		6 / C6.1
C3	VERTICAL CURB		3 / C4.1
C4	FLUSH VERTICAL CURB		4 / C4.1
W1	CMU BLOCK WALL		8 / C6.1

RAMPS

KEYNOTE	DETAIL NAME	SYMBOL	DETAIL REFERENCE
ER1	EDGE OF RAMP - TYPE I		4 / C6.2
ER2	EDGE OF RAMP - TYPE II		5 / C6.2
ER3	EDGE OF RAMP - TYPE III		6 / C6.2
R1	PASSANGER DROP OFF / LOADING RAMP		5 / C4.1
R2	CURB CUT RAMP		6 / C4.1

HANDRAILS AND RAIL PANELS

KEYNOTE	DETAIL NAME	SYMBOL	DETAIL REFERENCE
H1	HANDRAIL @ RAMP - TYPE I		1 / C6.2
H2	HANDRAIL @ RAMP - TYPE II		2 / C6.2
H3	HANDRAIL @ RAMP - TYPE III		3 / C6.2
RP1	RAIL PANEL		7 / C6.1

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SHEET

MATERIAL & DETAIL REFERENCE PLAN

DATE 12.29.2025

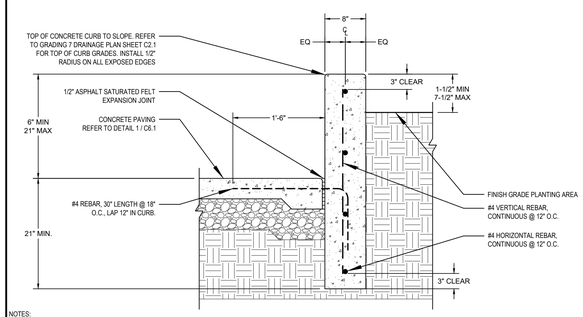
JOB # 2025014 **CEI #** 3221

SHEET # C5.1

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5 CONCRETE CURB - TYPE I — SCALE: NTS

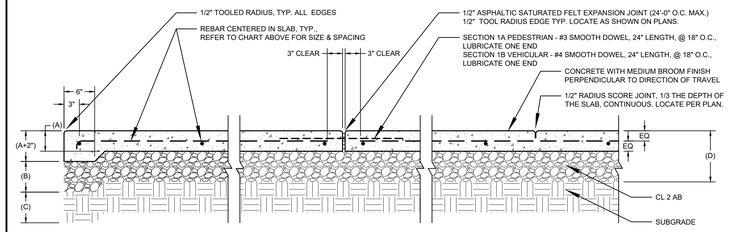


SECTION

NOTES:
1. CONCRETE CURB TO RECEIVE SACK FINISH.
2. INSTALL VERTICAL SCORE JOINTS 10'-0" O.C. MAX. WITH 1/2" RADIUS EDGES.
3. INSTALL VERTICAL ASPHALTIC SATURATED EXPANSION JOINTS EVENLY SPACED @ 20'-0" O.C. MAX. PROVIDE 1" CHAMFER EDGES AT EXPANSION JOINTS.

1 CONCRETE PAVING — SCALE: NTS

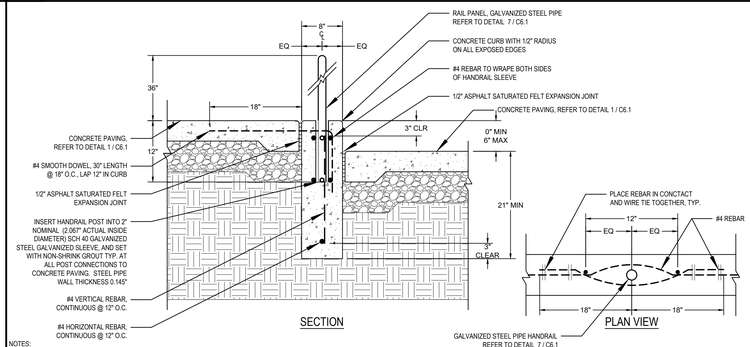
SECTION	(A) CONCRETE SLAB THICKNESS	(B) CL 2 BASE / COMPACTION	(C) UPPER 12" SUBGRADE COMPACTION	(D) TOTAL THICKNESS	ANY REQUIRED FILL BELOW UPPER 12" SUBGRADE COMPACTION	REBAR SIZE & SPACING
1A CONCRETE PAVING - PEDESTRIAN	4"	6" / 90% RC	90% RC	10"	90% RC	#4 REBAR, TYP., @ 24" O.C. EACHWAY



NOTES:
1. SCORE JOINTS SHALL BE PLACED A MAXIMUM OF 8'-0" O.C. REFER TO PLAN FOR EXACT LOCATIONS.
2. SCORE JOINTS TO BE 1/8" WIDE MAXIMUM, 1/2" RADIUS BOTH SIDES, SCORE DEPTH SHALL BE 1/3 OFCONCRETE PAVING DEPTH.
3. ADJACENT GRADE TO BE 1-1/2" BELOW CONCRETE IN PLANTING AND 1" BELOW CONCRETE IN SODDED TURF AND 1/2" BELOW CONCRETE IN SEEDED TURF.
4. REFER TO SPECIFICATION SECTION 32 13 13 - CONCRETE WORK FOR CONCRETE MIX DESIGN CRITERIA

10

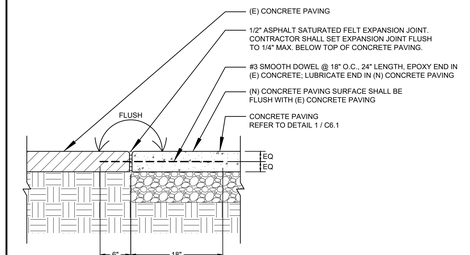
6 CONCRETE CURB - TYPE II — SCALE: NTS



SECTION PLAN VIEW

NOTES:
1. CONCRETE CURB TO RECEIVE SACK FINISH.
2. INSTALL VERTICAL SCORE JOINTS 10'-0" O.C. MAX. WITH 1/2" RADIUS EDGES.
3. INSTALL VERTICAL ASPHALTIC SATURATED EXPANSION JOINTS EVENLY SPACED @ 20'-0" O.C. MAX. PROVIDE 1" CHAMFER EDGES AT EXPANSION JOINTS.
4. CORE DRILLING FOR POST INSTALLATION WILL NOT BE ACCEPTED. CONTRACTOR SHALL SLEEVE AND WRAP WITH REBAR PRIOR TO POURING CONCRETE.

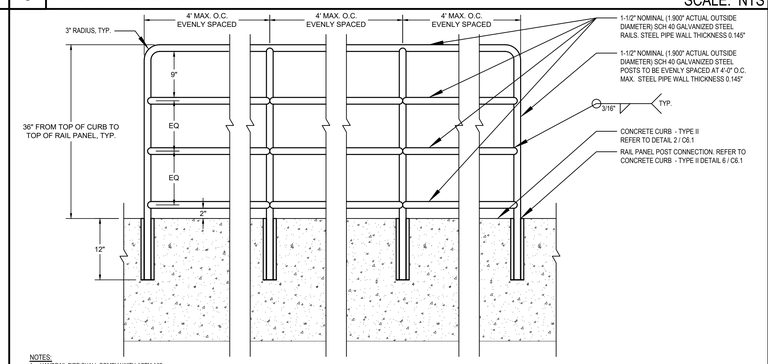
2 (N) CONCRETE TO (E) CONCRETE — SCALE: NTS



NOTES:
1. REFER TO SPECIFICATION SECTION 32 13 13 - CONCRETE PAVING

11

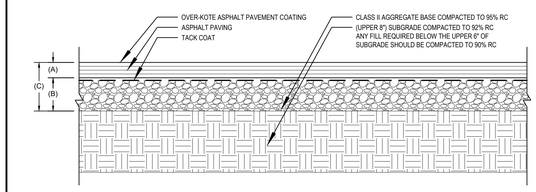
7 RAIL PANEL — SCALE: NTS



NOTES:
1. HANDRAIL PIPE SHALL COMPLY WITH ASTM A53.
2. ALL STEEL RAILS AND POSTS SHALL BE GALVANIZED.
3. INTERMEDIATE POSTS TO BE EVENLY SPACED AT 4' O.C. MAXIMUM.
4. ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH.
5. CORE DRILLING FOR POST INSTALLATION WILL NOT BE ACCEPTED. CONTRACTOR SHALL SLEEVE AND WRAP WITH REBAR PRIOR TO POURING CONCRETE.
6. REFER TO SPECIFICATION SECTION 05 52 00 METAL RAILINGS FOR WELDED CONNECTIONS.

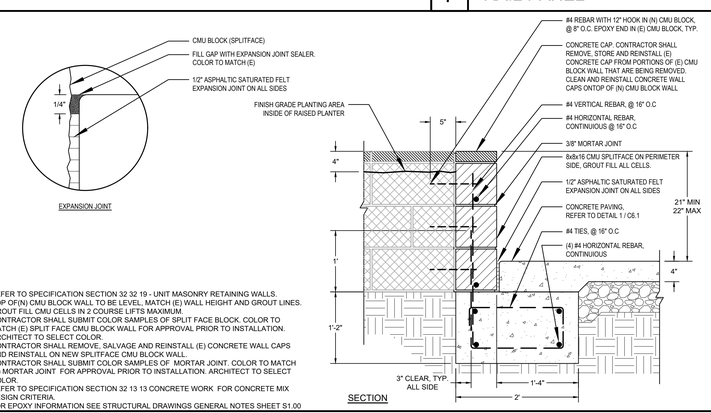
3 ASPHALT PAVING — SCALE: NTS

SECTION	TRAFFIC CONDITION	(A) ASPHALTIC CONCRETE (INCHES)	(B) CLASS 2 AGGREGATE BASE	(C) TOTAL THICKNESS
3A	AUTO (T.I. = 5.0)			
	UNTREATED	3"	8.5"	11.5"



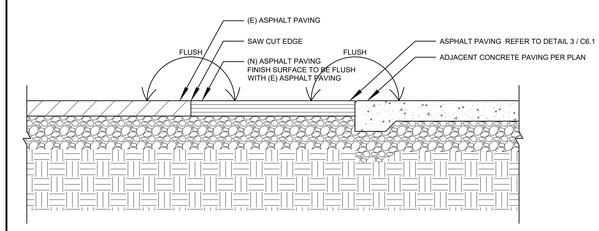
NOTES:
1. REFER TO SPECIFICATION SECTION 32 12 16 - ASPHALT PAVING
2. OVER-KOTE ASPHALT PAVEMENT COATING AVAILABLE THROUGH REED AND GRAHAM. INSTALL PER MANUFACTURES RECOMMENDATIONS.

8 CMU BLOCK WALL — SCALE: NTS



NOTES:
1. REFER TO SPECIFICATION SECTION 32 32 19 - UNIT MASONRY RETAINING WALLS.
2. TOP OF(N) CMU BLOCK WALL TO BE LEVEL, MATCH (E) WALL HEIGHT AND GROUT LINES.
3. GROUT FILL CMU CELLS IN 2 COURSE LIFTS MAXIMUM.
4. CONTRACTOR SHALL SUBMIT COLOR SAMPLES OF SPLIT FACE BLOCK. COLOR TO MATCH (E) SPLIT FACE CMU BLOCK WALL FOR APPROVAL PRIOR TO INSTALLATION. ARCHITECT TO SELECT COLOR.
5. CONTRACTOR SHALL REMOVE, SALVAGE AND REINSTALL (E) CONCRETE WALL CAPS AND REINSTALL ON NEW SPLITFACE CMU BLOCK WALL.
4. CONTRACTOR SHALL SUBMIT COLOR SAMPLES OF MORTAR JOINT. COLOR TO MATCH (E) MORTAR JOINT FOR APPROVAL PRIOR TO INSTALLATION. ARCHITECT TO SELECT COLOR.
5. REFER TO SPECIFICATION SECTION 32 13 13 CONCRETE WORK FOR CONCRETE MIX DESIGN CRITERIA.
6. FOR EPOXY INFORMATION SEE STRUCTURAL DRAWINGS GENERAL NOTES SHEET S1.00

4 (N) ASPHALT TO (E) ASPHALT — SCALE: NTS



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STAMP

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STATE

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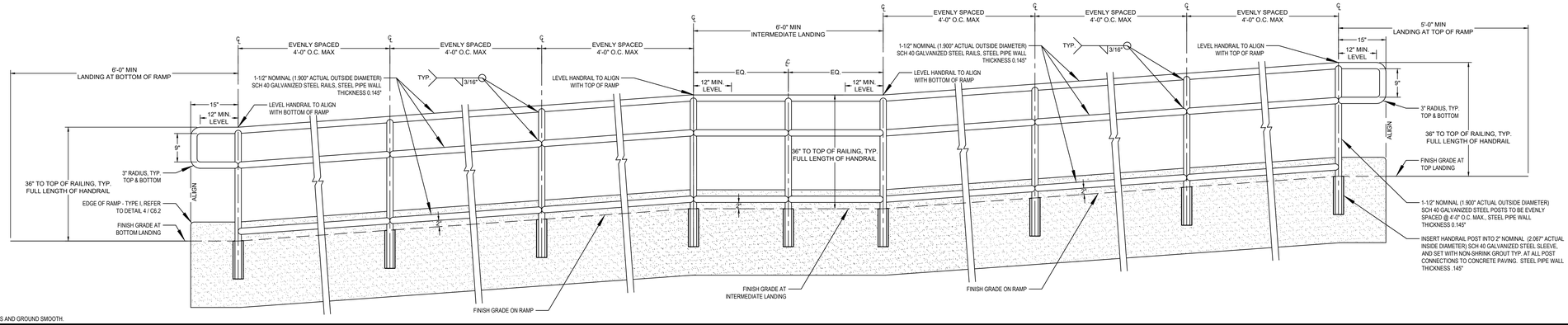
CONSTRUCTION DETAILS

DATE 12.29.2025

JOB # 2025014 CEI # 3221

SHEET # C6.1

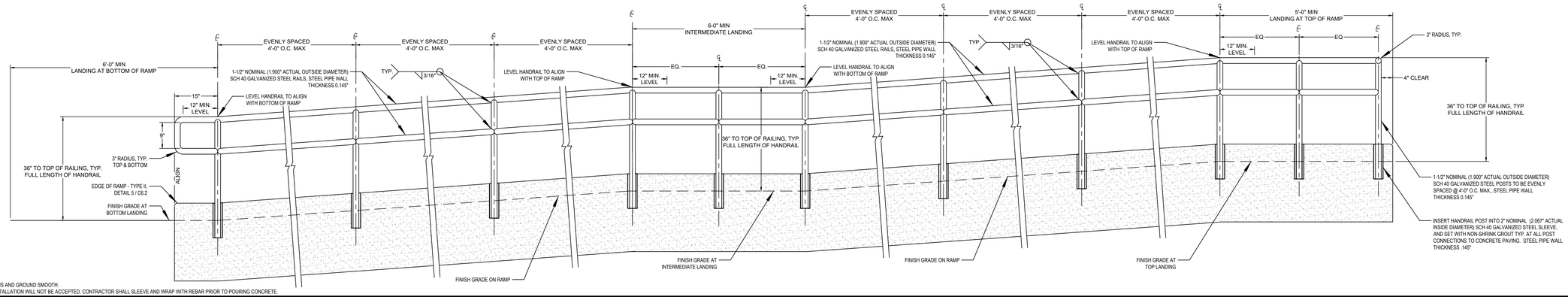
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NOTES:
1. ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH.

1 HANDRAIL @ RAMP - TYPE I

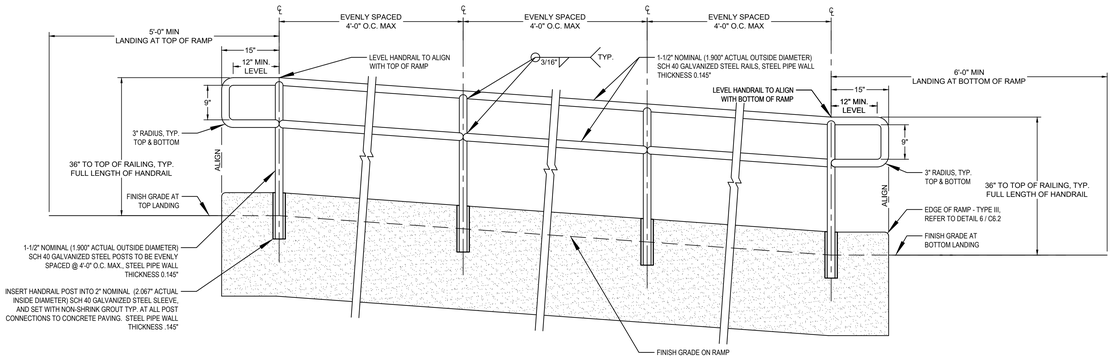
SCALE: NTS



NOTES:
1. ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH.
2. CORE DRILLING FOR POST INSTALLATION WILL NOT BE ACCEPTED. CONTRACTOR SHALL SLEEVE AND WRAP WITH REBAR PRIOR TO POURING CONCRETE.

2 HANDRAIL @ RAMP - TYPE II

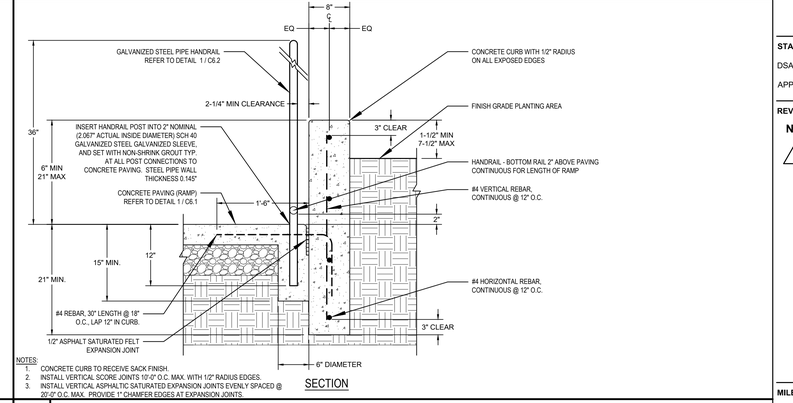
SCALE: NTS



NOTES:
1. ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH.
2. CORE DRILLING FOR POST INSTALLATION WILL NOT BE ACCEPTED. CONTRACTOR SHALL SLEEVE AND WRAP WITH REBAR PRIOR TO POURING CONCRETE.

3 HANDRAIL @ RAMP - TYPE III

SCALE: NTS



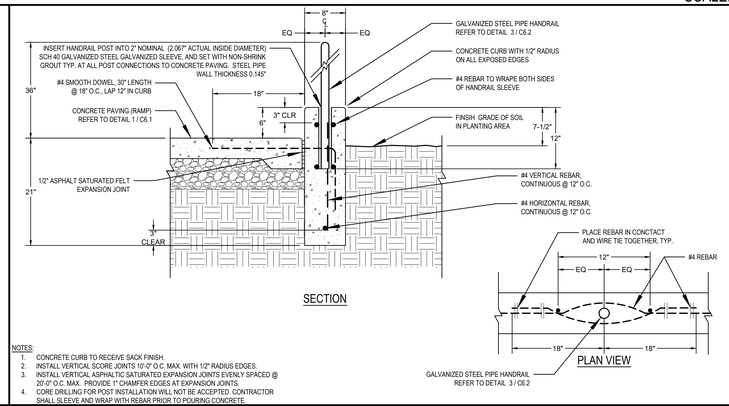
NOTES:
1. CONCRETE CURB TO RECEIVE SACK FINISH.
2. INSTALL VERTICAL SCORE JOINTS 10'-0" O.C. MAX. WITH 1/2" RADIUS EDGES.
3. INSTALL VERTICAL ASPHALTIC SATURATED EXPANSION JOINTS EVENLY SPACED @ 20'-0" O.C. MAX. PROVIDE 1" CHAMFER EDGES AT EXPANSION JOINTS.

SECTION

4 EDGE OF RAMP - TYPE I

SCALE: NTS

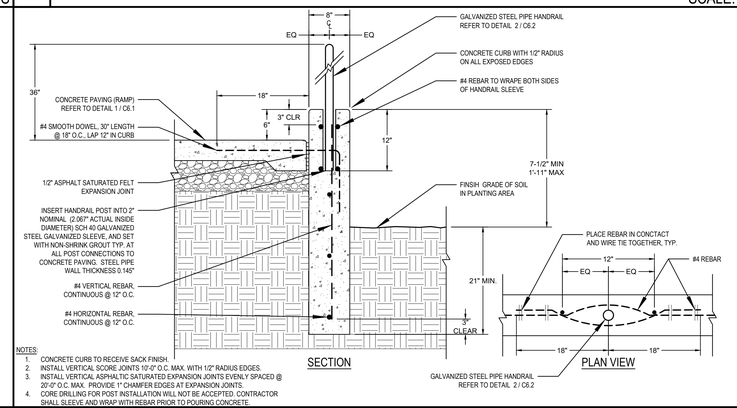
7



NOTES:
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2. INSTALL VERTICAL SCORE JOINTS 10'-0" O.C. MAX. WITH 1/2" RADIUS EDGES.
3. INSTALL VERTICAL ASPHALTIC SATURATED EXPANSION JOINTS EVENLY SPACED @ 20'-0" O.C. MAX. PROVIDE 1" CHAMFER EDGES AT EXPANSION JOINTS.
4. CORE DRILLING FOR POST INSTALLATION WILL NOT BE ACCEPTED. CONTRACTOR SHALL SLEEVE AND WRAP WITH REBAR PRIOR TO POURING CONCRETE.

6 EDGE OF RAMP - TYPE III

SCALE: NTS



NOTES:
1. CONCRETE CURB TO RECEIVE SACK FINISH.
2. INSTALL VERTICAL SCORE JOINTS 10'-0" O.C. MAX. WITH 1/2" RADIUS EDGES.
3. INSTALL VERTICAL ASPHALTIC SATURATED EXPANSION JOINTS EVENLY SPACED @ 20'-0" O.C. MAX. PROVIDE 1" CHAMFER EDGES AT EXPANSION JOINTS.
4. CORE DRILLING FOR POST INSTALLATION WILL NOT BE ACCEPTED. CONTRACTOR SHALL SLEEVE AND WRAP WITH REBAR PRIOR TO POURING CONCRETE.

5 EDGE OF RAMP - TYPE II

SCALE: NTS

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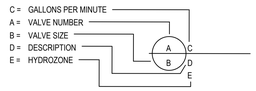
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IRRIGATION LEGEND

SYM	MODEL	MANUF.	DESCRIPTION	GPM	PSI	RAD
BUBBLERS						
⊕	1402	RAINBIRD	TREE FLOOD BUBBLER IN DRAIN TUBE, TWO PER TREE	0.50	30	TRICKLE
VALVES/CONTROLLER						
	-	-	(E) WATER METER, LOCATED ON CHELSEA ST.			
	825Y	FEBCO	(E) BACKFLOW PREVENT UNIT, LOCATED LOCATED ON CHELSEA ST.			
	ESP-LXME	RAINBIRD	(E) 44-STATION INTERIOR WALL MOUNTED IRRIGATION CONTROLLER TO REMAIN. LOCATED INSIDE ELECTRICAL ROOM 109 ON THE BACK SIDE OF THE ADMINISTRATOION BLDG.			
	PEB	RAINBIRD	BRASE PRESSURE COMPENSATING REMOTE CONTROL VALVE. SIZE PER PLAN, INSTALL WYE STRAINER FILTER FOR FLOWS BELOW 5.00 GPM PER MANUFACTURES RECOMENDATIONS. INSTALL IN VALVE BOX			
S			IRRIGATION SPLICE BOX WITH LOCKABLE LID			
PIPING						
			(E) IRRIGATION MAINLINE, TO REMAIN			
			SCH 40 PVC NON-PRESSURIZED, PURPLE COLOR, LATERAL LINE. 18" DEPTH, NSF APPROVED, SIZE PER PIPE SIZE CHART. INSTALL WITH 6" OF SAND BACKFILL.			
			SCH 40 (UP TO 2 1/2") CLASS 315 (3" AND LARGER) PVC PRESSURIZED, PURPLE COLOR, MAINLINE, NSF APPROVED, SIZE PER PLAN, 24" DEPTH. INSTALL TRACER WIRE ALONG ENTIRE LENGTH OF MAINLINE & 6" OF SAND BACKFILL.			
			SCH 40 PVC SLEEVES. MIN. 2 IN EACH LOCATION, SIZE AS REQUIRED. RUN CONTROL WIRE IN SEPARATE SLEEVE FROM IRRIGATION PIPES. SLEEVING SHALL BE INSTALLED AT 30" DEPTH.			

C = GALLONS PER MINUTE
A = VALVE NUMBER
B = VALVE SIZE
D = DESCRIPTION
E = HYDROZONE



IRRIGATION LATERAL LINE SIZE CHART (SCH 40)

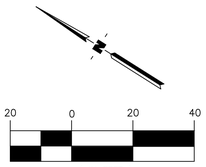
GPM	PIPE SIZE
0 - 12 GPM	1"
12.01 - 22 GPM	1 1/4"
22.01 - 30 GPM	1 1/2"
30.01 - 50 GPM	2"
50.01 - 70 GPM	2 1/2"
70.01 - 110.0 GPM	3"

IRRIGATION NOTES

1. CARROLL ENGINEERING, INC. HAS COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

MATTHEW PAUL MARTUS, CALIFORNIA PE 68770

2. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND SERVICES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO BEGINNING WORK. CONTACT DISTRICT REPRESENTATIVE SHOULD ANY CONFLICTS ARISE.
4. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS.
5. SCHOOL IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT 50 PSI AND 50 GPM FROM THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE AND FLOW PRIOR TO BEGINNING OF WORK. CONTACT DISTRICT REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE.
6. THE IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, ETC. ARE SHOWN OUTSIDE OF PLANTING AREAS, THE INTENT IS FOR PIPING, VALVES, ETC. TO BE INSTALLED WITHIN PLANTING AREAS UNLESS OTHERWISE NOTED AND DETAILED.
7. CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH OTHER TRADES. CONTRACTOR TO COORDINATE AND VERIFY ALL SLEEVING, PIPING, ELECTRICAL SUPPLY, POINT OF CONNECTION, ETC.
8. CONTRACTOR IS RESPONSIBLE FOR COMPLETE AND UNIFORM COVERAGE OF ALL PLANTING AND TURF AREAS. CONTRACTOR TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN OPTIMUM OPERATING PRESSURE FOR EACH CIRCUIT. ADJUST SPRAY HEADS AND NOZZLES FOR OPTIMUM COVERAGE WHILE PREVENTING OVERSPRAY ONTO WALKWAYS AND STRUCTURES BY USE OF PRESSURE COMPENSATING DEVICES.
9. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN TRENCHING AROUND EXISTING TREES AND SHRUBS. CONTRACTOR SHALL HAND TRENCH WHEN TRENCHING ACROSS ROOTS 2" AND LARGER TO PRESERVE ROOT SYSTEM. ROOTS SMALLER THAN 2" MAY BE TRIMMED. DO NOT TEAR ANY ROOTS.
10. REMOTE CONTROL VALVES FOR TURF FIELD ARE BURIED BELOW FINISH GRADE. CONTRACTOR SHALL ENSURE (E) VALVES ARE OPERATIONAL BEFORE, DURING AND AFTER CONSTRUCTION.
11. REFER TO SPECIFICATIONS SECTION 32 84 00 AND IRRIGATIONS & PLANTING DETAILS ON SHEET L3.1



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OAK GROVE SCHOOL DISTRICT

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DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

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MILESTONES

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90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

IRRIGATION PLAN

DATE 12.29.2025

JOB # 2025014 **CEI #** 3221

SHEET # L1.1

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PLANTING NOTES

1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF ALL EXISTING AND PROPOSED UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH WORK TO BE DONE. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO DIGGING. NOTIFY DISTRICT REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE.
4. FINE GRADING, HEADERS AND IRRIGATION COVERAGE SHALL BE APPROVED BY DISTRICT REPRESENTATIVE PRIOR TO PLANTING OPERATIONS.
5. CONTRACTOR SHALL LAY OUT PLANT MATERIAL PER PLAN AND FACE TO GIVE BEST APPEARANCE OR RELATION TO ADJACENT PLANTS, STRUCTURES OR VIEWS. CONTRACTOR TO OBTAIN APPROVAL FROM DISTRICT REPRESENTATIVE PRIOR TO INSTALLATION.
6. PLANT MATERIAL SHALL NOT BE INSTALLED IN AN AREA WHICH WILL CAUSE HARM TO ADJACENT STRUCTURES OR OBSTRUCT IRRIGATION SPRAY PATTERN. NOTIFY THE DISTRICT REPRESENTATIVE SHOULD CONFLICTS ARISE.
7. PRIOR TO PLANTING INSTALLATION, OBTAIN APPROVAL OF PLANT LAYOUT FROM DISTRICT REPRESENTATIVE. PLANT LOCATIONS ARE DIAGRAMMATIC AND MAY BE ADJUSTED IN THE FIELD AT AT THE DISTRICT REPRESENTATIVE'S REQUEST.
8. FINISH GRADE OF PLANTING AREAS SHALL BE 1-1/2" BELOW ADJACENT PAVING. TAPER 3" DEPTH BARK MULCH TOP DRESSING TO 1/2" BELOW ADJACENT PAVING (1-1/2" DEPTH) WITHIN 2" OF PAVING.
9. GROUND COVERS SHALL BE PLANTED EVENLY AND CONTINUOUSLY UNDER TREE AND SHRUB MASSES.
10. ALL PLANTING AREAS SHALL RECEIVE A 3" MIN. DEPTH BARK MULCH TOP DRESSING.
11. ALL NEWLY PLANTED MATERIAL SHALL BE THOROUGHLY SOAKED WITH WATER WITHIN 3 HOURS OF PLANTING.
12. ALL (E) TREES, SHRUBS AND GROUND COVERS TO REMAIN SHALL BE PROTECTED. ANY DAMAGE CAUSED BY CONTRACTOR'S WORK OR NEGLIGENCE SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE DISTRICT REPRESENTATIVE.
13. CONTRACTOR SHALL RE-STAKE AND STRAIGHTEN TREES AS NECESSARY (30) THIRTY DAYS AFTER PLANTING.
14. ALL NEWLY PLANTED TREES SHALL MAINTAIN VERTICAL DISTANCE 80" AT FINISH ELEVATION ALONG CIRCULATION PATHS, TYP. §11B-307.4.
15. REFER TO IRRIGATION & PLANTING DETAILS ON SHEET L3.1
16. REFER TO SPECIFICATION SECTIONS
    - 01 56 39 TREE AND PLANT PROTECTION
    - 32 90 00 PLANTING

PLANTING PALETTE

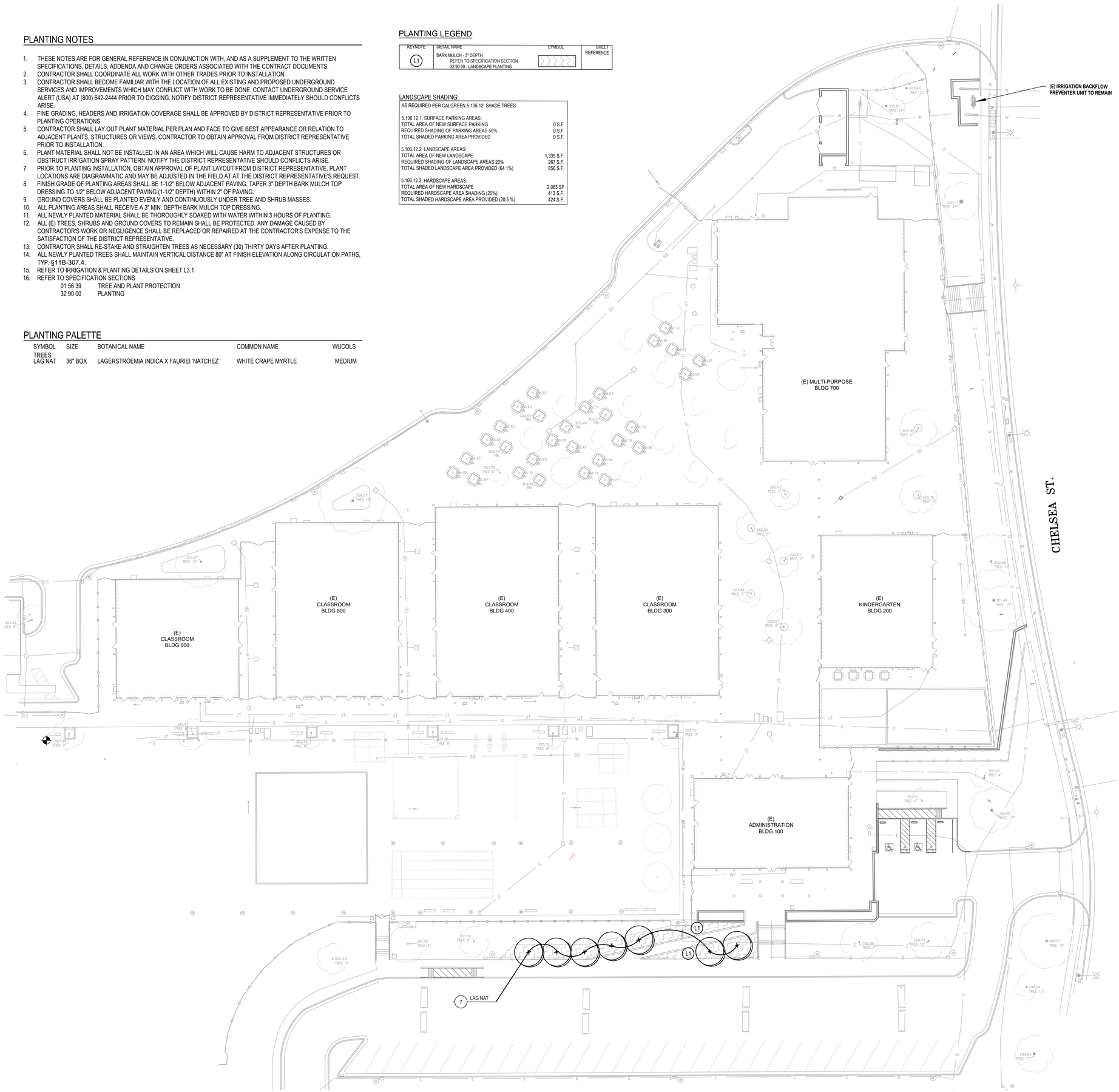
SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS
TREES:				
LAG NAT	36" BOX	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	WHITE CRAPE MYRTLE	MEDIUM

PLANTING LEGEND

KEYNOTE	DETAIL NAME	SYMBOL	SHEET REFERENCE
L1	BARK MULCH - 3" DEPTH REFER TO SPECIFICATION SECTION 32 90 00 - LANDSCAPE PLANTING		

LANDSCAPE SHADING:

AS REQUIRED PER CALGREEN 5.106.12: SHADE TREES	
5.106.12.1: SURFACE PARKING AREAS:	
TOTAL AREA OF NEW SURFACE PARKING	0 S.F.
REQUIRED SHADING OF PARKING AREAS 50%	0 S.F.
TOTAL SHADED PARKING AREA PROVIDED	0 S.F.
5.106.12.2: LANDSCAPE AREAS:	
TOTAL AREA OF NEW LANDSCAPE	1,335 S.F.
REQUIRED SHADING OF LANDSCAPE AREAS 20%	267 S.F.
TOTAL SHADED LANDSCAPE AREA PROVIDED (64.1%)	856 S.F.
5.106.12.3: HARDSCAPE AREAS:	
TOTAL AREA OF NEW HARDSCAPE	2,063 SF
REQUIRED HARDSCAPE AREA SHADING (20%)	413 S.F.
TOTAL SHADED HARDSCAPE AREA PROVIDED (20.5 %)	424 S.F.



20 0 20 40
(IN FEET)
1 inch = 20 ft.
GRAPHIC SCALE

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PROJECT

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OAK GROVE SCHOOL DISTRICT

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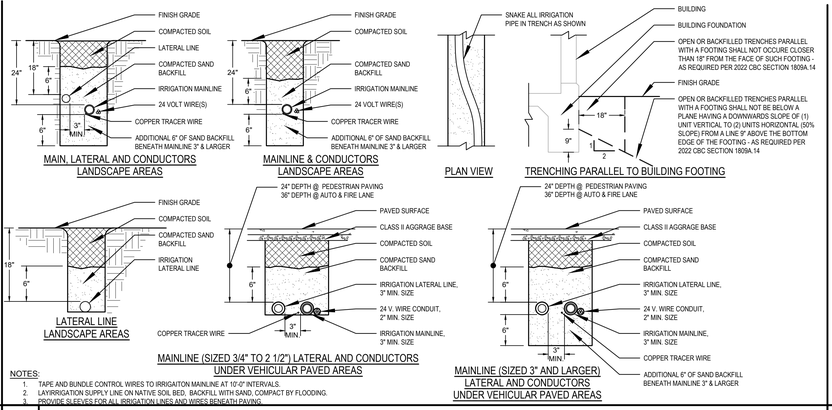
PLANTING PLAN

DATE 12.29.2025

JOB # 2025014 **CEI #** 3221

SHEET # L2.1

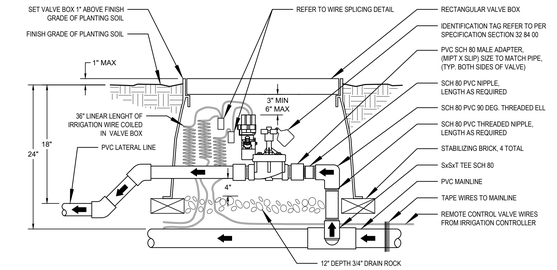
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NOTES:
1. TAPE AND BUNDLE CONTROL WIRES TO IRRIGAITON MAINLINE AT 10'-0" INTERVALS.
2. LAYIRRIGATION SUPPLY LINE ON NATIVE SOIL BED. BACKFILL WITH SAND, COMPACT BY FLOODING.
3. PROVIDE SLEEVES FOR ALL IRRIGATION LINES AND WIRES BENEATH PAVING.

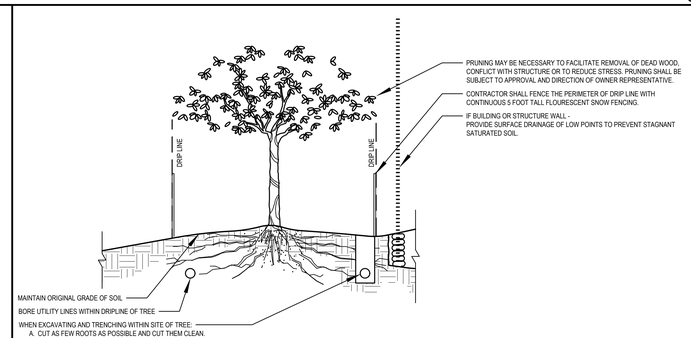
9

5 TRENCHING SCALE: NTS



NOTES:
1. LIMIT ONE REMOTE CONTROL VALVE PER VALVE BOX.
2. NO EARTH FILL INSIDE BOX OR TOUCHING VALVE.
3. USE TEFLON PASTE PIPE THREAD SEALANT ON THREADED CONNECTIONS.
4. EACH CONTROL VALVE TO HAVE MANUAL BLEED AND FLOW CONTROL.
5. ADJUST EACH CONTROL VALVE TO OPTIMUM FLOW AS REQUIRED BY THE BUBBLER, POP-UP SPRAY HEAD OR TURF ROTOR.

1 REMOTE CONTROL VALVE SCALE: NTS

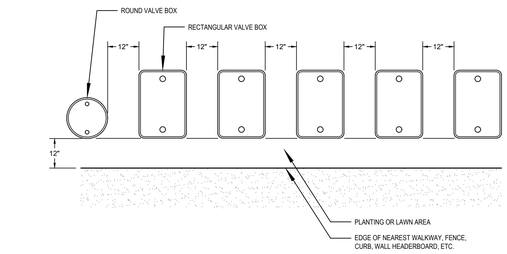


WHEN EXCAVATING AND TRENCHING WITHIN SITE OF TREE:
A. CUT AS FEW ROOTS AS POSSIBLE AND CUT THEM CLEAN.
B. PAINT CUT ROOTS WITH APPROVED DRESSING.
C. BACKFILL AS SOON AS POSSIBLE TO AVOID ROOTS DYING.
D. COVER EXPOSED ROOTS WITH BURLAP AND KEEP ROOTS MOIST.

GENERAL CARE NOTES:
1. DO NOT STORE LIQUIDS, CONSTRUCTION MATERIALS OR VEHICLES AND EQUIPMENT WITHIN FENCED AREA.
2. APPLY WATER AS NECESSARY TO MAINTAIN IN HEALTHY GROWING CONDITION.
3. DO NOT POUR OR RINSE PAINTS OR TOXIC LIQUIDS WITHIN DRIPLINE OF TREE.

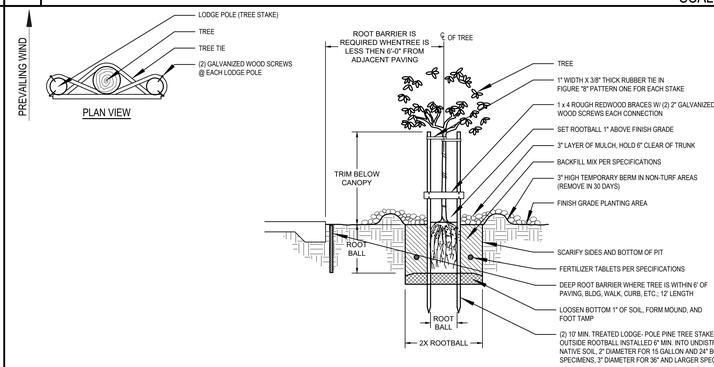
10

6 TREE PROTECTION SCALE: NTS



NOTES:
1. SET BOXES PARALLEL AND PERPENDICULAR TO NEAREST EDGE AND EACH OTHER.
2. CENTER BOXES OVER ENCLOSED VALVES.
3. AVOID HEAVILY COMPACTING SOIL AROUND BOXES TO PREVENT DAMAGING BOX.
4. VALVE BOXES IN SHRUB PLANTING AREAS SHALL BE GREEN.
5. VALVE BOXES SHALL BE SET 1" MAX. ABOVE FINISH GRADE OF SOIL.

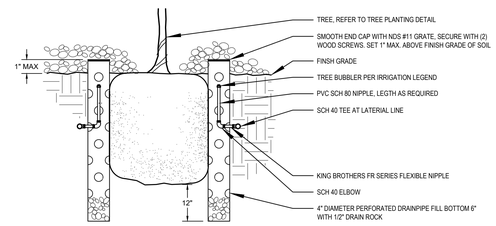
2 VALVE BOX ALIGNMENT SCALE: NTS



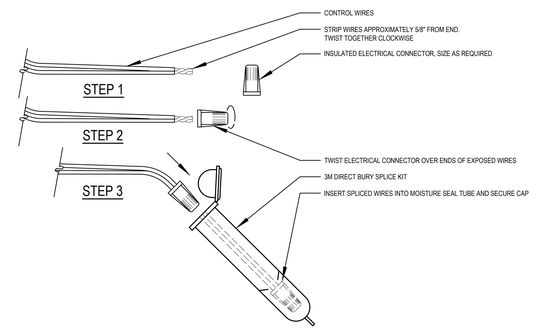
GENERAL CARE NOTES:
1. ROOT BARRIER TO BE DEEP ROOT LB 18-2 AT BACK OF WALK AND TO EXTEND 6' BEYOND EACH TREE IN EACH DIRECTION.
2. LODGE POLE TREE STAKES TO BE10' MIN. IN LENGTH. CONTRACTOR TO DETERMINE USE OF 12' OR 16' LENGTH BASED ON SIZE OF TREE SPECIMEN
3. TRIM CANOPY IF REQUIRED TO REMOVE DAMAGED OR BROKEN BRANCHES AND FOR STRUCTURAL INTEGRITY OF THE TREE.

11

7 TREE PLANING SCALE: NTS



3 TREE BUBBLER SCALE: NTS



12

8

4 WIRE SPLICING SCALE: NTS

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DSA SUB	12.29.2025

SHEET

IRRIGATION & PLANTING DETAILS

DATE 12.29.2025

JOB # 2025014 **CEI #** 3221

SHEET # L3.1

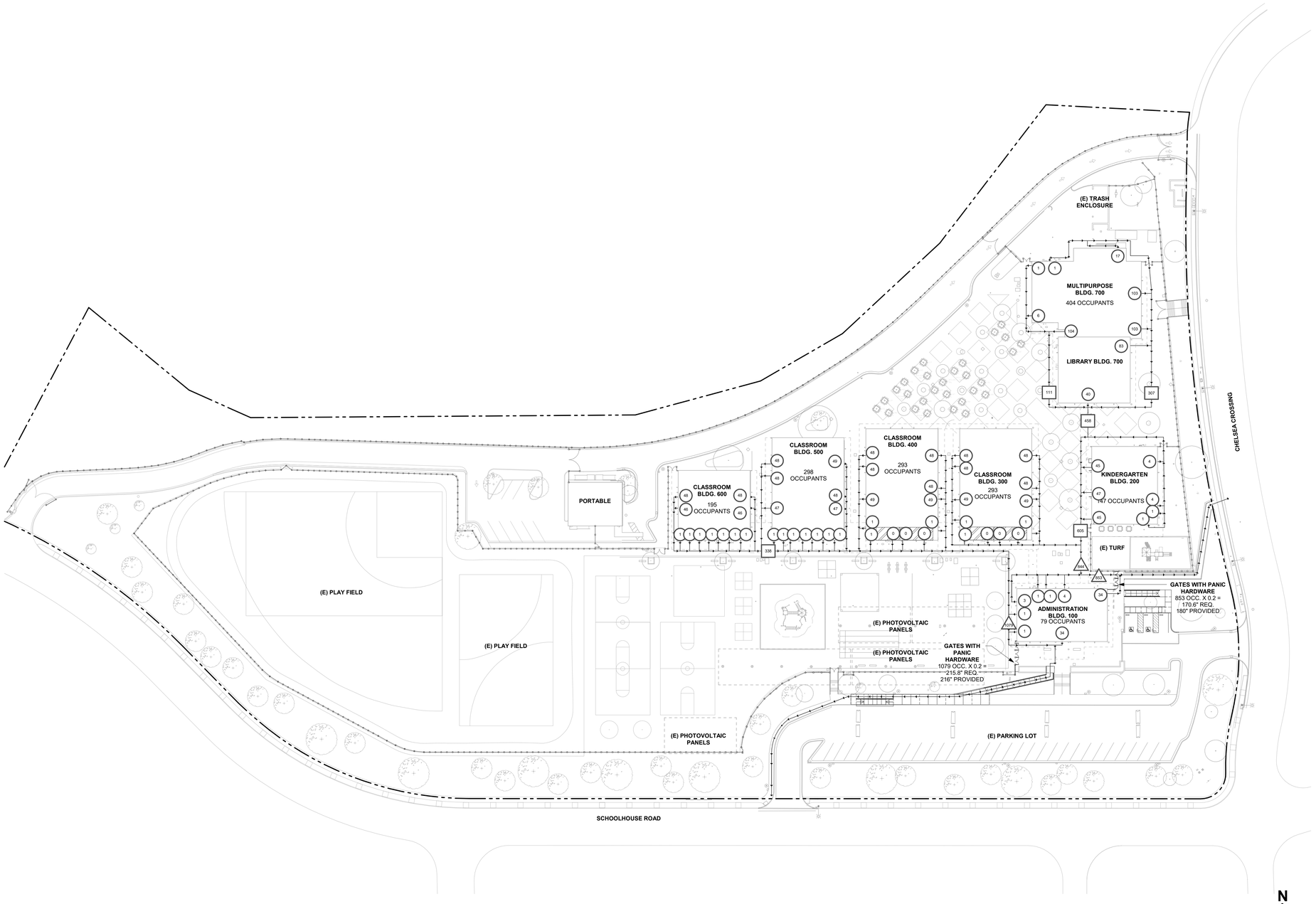
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GENERAL SHEET NOTES

N/A

EXIT ANALYSIS PLAN KEYNOTES

N/A



1 **EXIT ANALYSIS - SITE**
SCALE: 1" = 40'-0"

GRAPHIC KEY

- MODERNIZATION OF EXISTING CONSTRUCTION
- EXISTING CONSTRUCTION TO REMAIN
- PROPERTY LINE
- EXISTING ORNAMENTAL FENCE
- (N) ORNAMENTAL FENCE
- (E) CHAIN LINK FENCE
- EXIT ANALYSIS PATH OF TRAVEL, SCOPE OF WORK
- EXIT ANALYSIS PATH OF TRAVEL, EXISTING
- XX — ROOM OCCUPANT LOAD
- XX — COMBINED OCCUPANT LOAD
- XX — TOTAL FLOOR OCCUPANT LOAD
- (E) F.H. — EXISTING FIRE HYDRANT

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LICENSED ARCHITECT — JOSEPH C. PITTENGER — NO. C-25840 — REN. 07-31-27 — STATE OF CALIFORNIA

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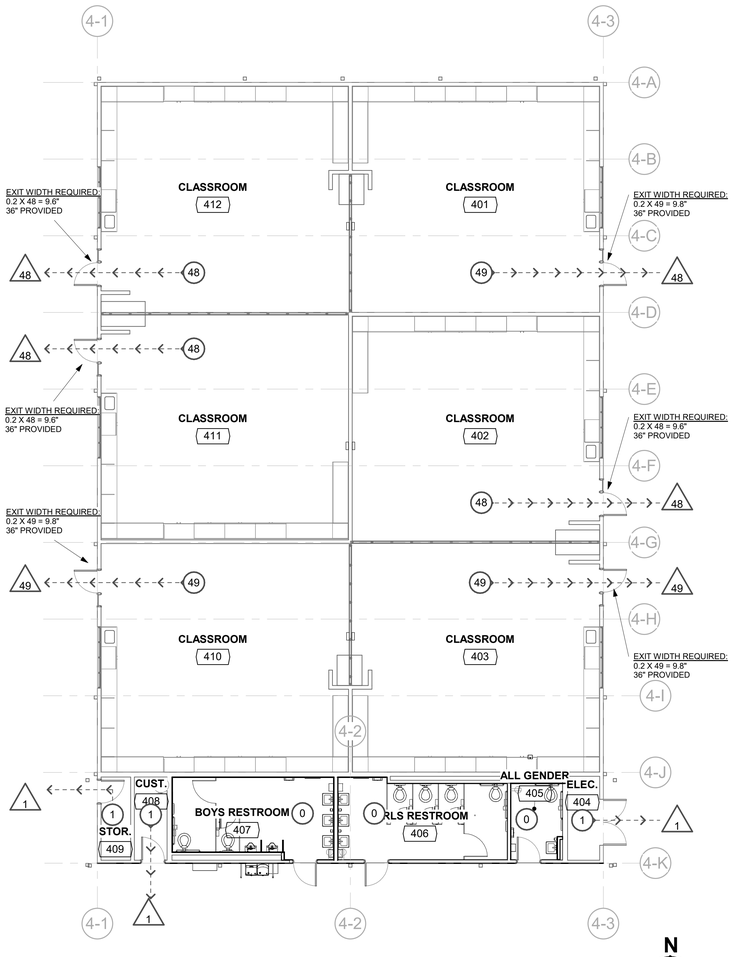
EXIT ANALYSIS - SITE

DATE 12.29.2025

JOB # 2025014

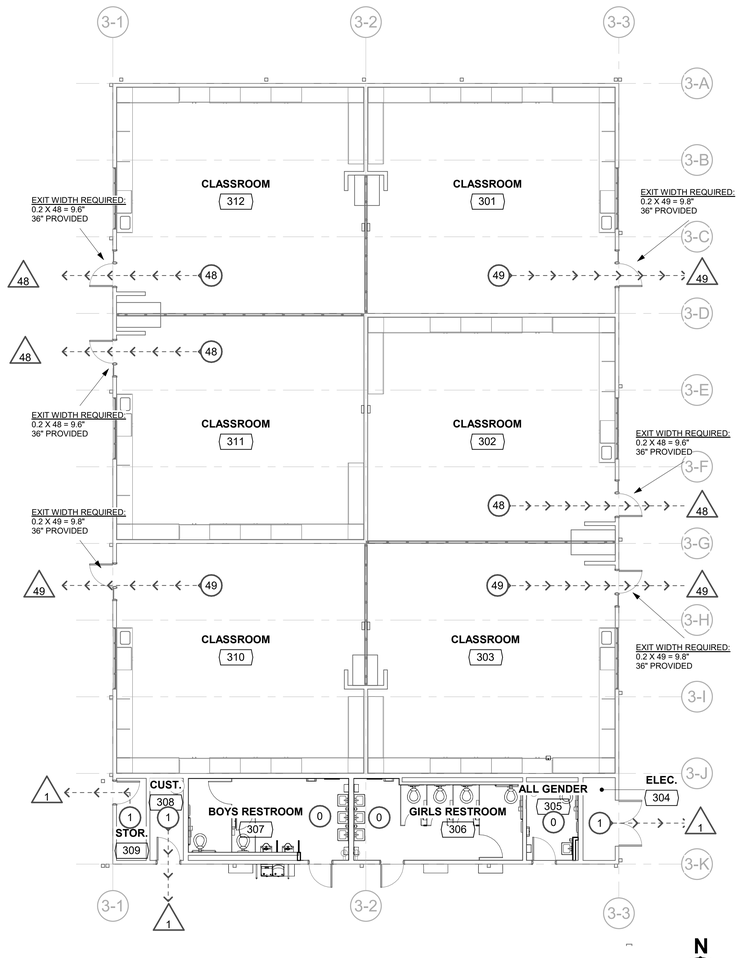
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2 EXIT ANALYSIS PLAN - BLDG 400

SCALE: 1/8" = 1'-0"



1 EXIT ANALYSIS PLAN - BLDG 300

SCALE: 1/8" = 1'-0"

EXITING ANALYSIS

NUMBER	NAME	FUNCTION	AREA	OCCUPANCY GROUP	OCCUPANCY LOAD FACTOR, SF/OCC.	OCCUPANT LOAD	EXIT WIDTH REQUIRED, (INCHES)	REQ. # OF EXITS	EXIT WIDTH PROVIDED, (INCHES)
401	CLASSROOM	CLASSROOM	964 SF	E	20	49	9.8	1	36
402	CLASSROOM	CLASSROOM	955 SF	E	20	48	9.8	1	36
403	CLASSROOM	CLASSROOM	963 SF	E	20	49	9.8	1	36
404	ELEC.	ACCESORY STORAGE	46 SF	E	300	1	0.2	1	72
405	ALL GENDER		64 SF						
406	GIRLS RESTROOM		222 SF						
407	BOYS RESTROOM		208 SF						
408	CUST.	ACCESORY STORAGE	46 SF	E	300	1	0.2	1	36
409	STOR.	ACCESORY STORAGE	42 SF	E	300	1	0.2	1	36
410	CLASSROOM	CLASSROOM	964 SF	E	20	49	9.8	1	36
411	CLASSROOM	CLASSROOM	956 SF	E	20	48	9.6	1	36
412	CLASSROOM	CLASSROOM	945 SF	E	20	48	9.6	1	36

NOTE:
*EGRESS WIDTH CALCULATED AS OCCUPANT LOAD x 0.2" FOR ALL ROOMS EXCEPT STAIRS, WHICH ARE CALCULATED AS OCCUPANT LOAD x 0.3", PER C.B.C. 1005.3.1, OR 48" CLEAR BETWEEN HANDRAILS PER C.B.C. 1007.3, WHICHEVER IS MORE STRINGENT.

EXITING ANALYSIS

NUMBER	NAME	FUNCTION	AREA	OCCUPANCY GROUP	OCCUPANCY LOAD FACTOR, SF/OCC.	OCCUPANT LOAD	EXIT WIDTH REQUIRED, (INCHES)	REQ. # OF EXITS	EXIT WIDTH PROVIDED, (INCHES)
301	CLASSROOM	CLASSROOM	962 SF	E	20	49	9.8	1	36
302	CLASSROOM	CLASSROOM	951 SF	E	20	48	9.6	1	36
303	CLASSROOM	CLASSROOM	969 SF	E	20	49	9.8	1	36
304	ELEC.	ACCESSORY STORAGE	45 SF	E	300	1	0.2	1	72
305	ALL GENDER		63 SF						
306	GIRLS RESTROOM		220 SF						
307	BOYS RESTROOM		206 SF						
308	CUST.	ACCESSORY STORAGE	47 SF		300	1	0.2	1	36
309	STOR.	ACCESSORY STORAGE	41 SF		300	1	0.2	1	36
310	CLASSROOM	CLASSROOM	971 SF	E	20	49	9.8	1	36
311	CLASSROOM	CLASSROOM	951 SF	E	20	48	9.6	1	36
312	CLASSROOM	CLASSROOM	946 SF	E	20	48	9.6	1	36

NOTE:
*EGRESS WIDTH CALCULATED AS OCCUPANT LOAD x 0.2" FOR ALL ROOMS EXCEPT STAIRS, WHICH ARE CALCULATED AS OCCUPANT LOAD x 0.3", PER C.B.C. 1005.3.1, OR 48" CLEAR BETWEEN HANDRAILS PER C.B.C. 1007.3, WHICHEVER IS MORE STRINGENT.

GENERAL SHEET NOTES

N/A

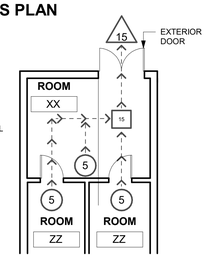
EXIT ANALYSIS PLAN KEYNOTES

N/A

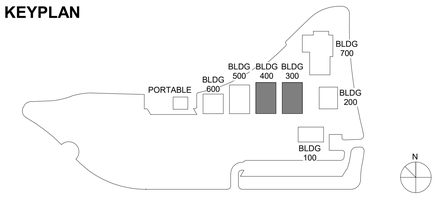
GRAPHIC KEY - EXIT ANALYSIS PLAN

WALL TYPES:

- EXISTING WALL TO REMAIN
- NEW STUD WALL
- EXIT ANALYSIS PATH OF TRAVEL
- (XX) ROOM OCCUPANT LOAD
- XX COMBINED OCCUPANT LOAD
- XX TOTAL FLOOR OCCUPANT LOAD
- 15 EXTERIOR DOOR



KEYPLAN



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www.aedisarchitects.com
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San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN C. PITTENGER NO. C-25840 REN. 07-31-27 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

SHEET

EXIT ANALYSIS - BLDGS. 300 & 400

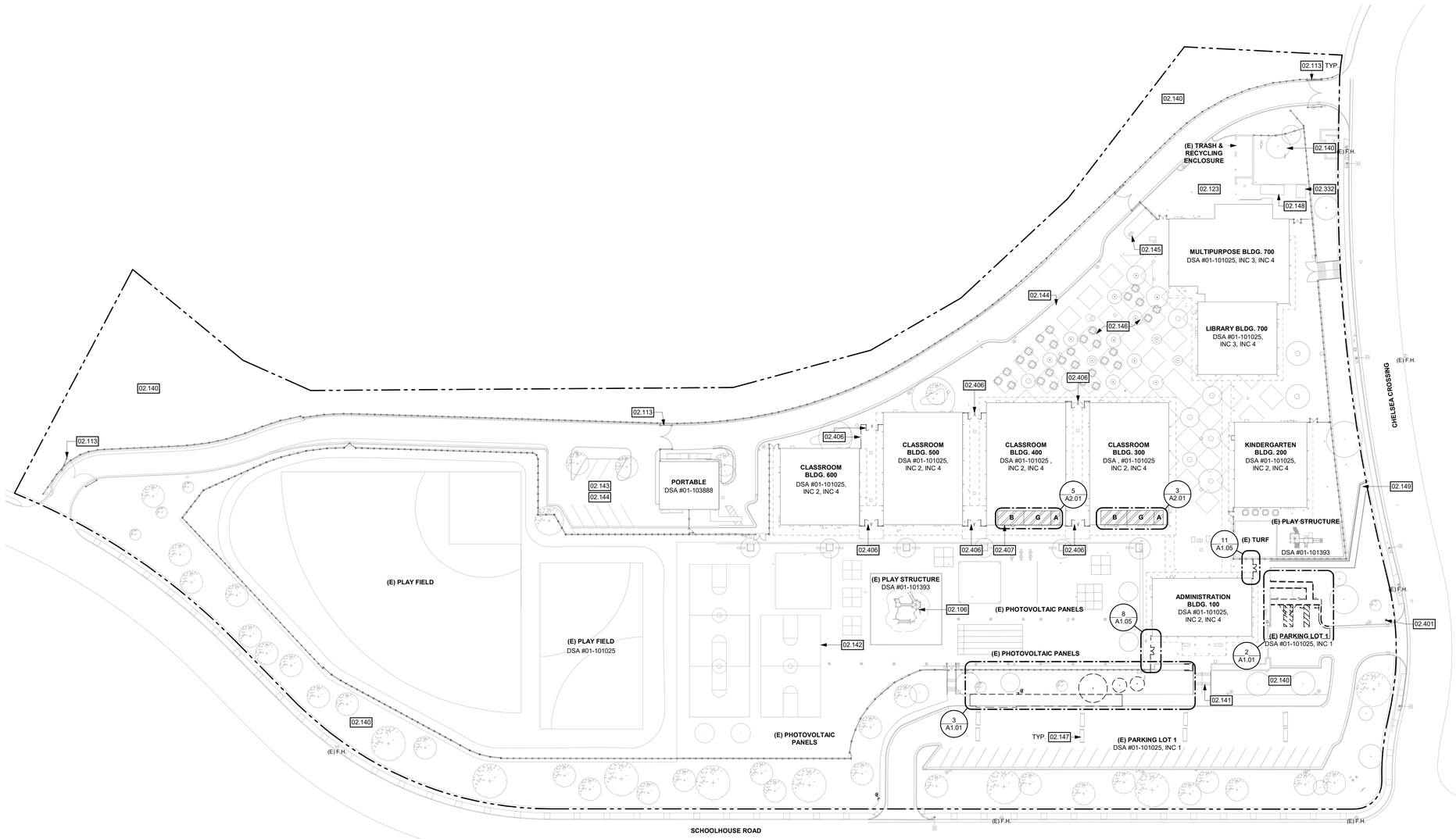
DATE 12.29.2025

JOB # 2025014

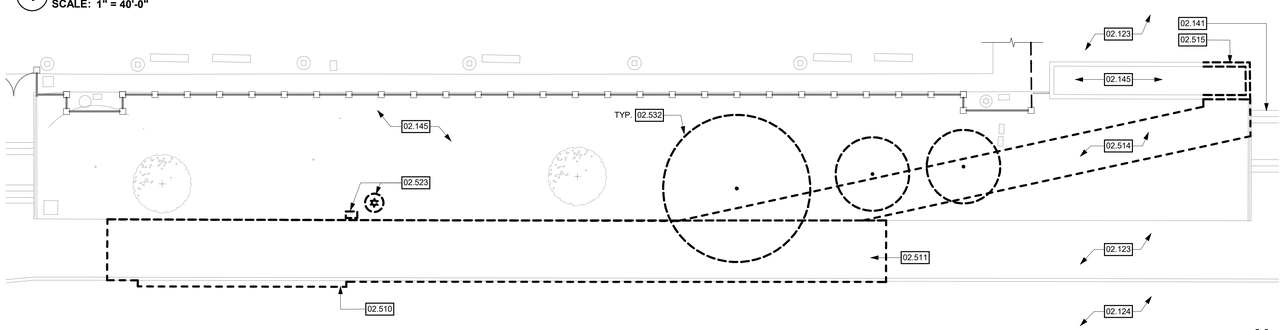
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A0.02

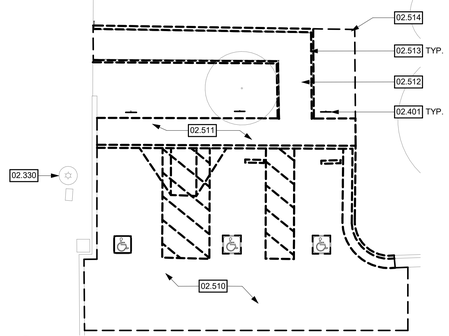
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1 DEMOLITION SITE PLAN
SCALE: 1" = 40'-0"



3 ENLARGED DEMOLITION SITE PLAN - RAMP
SCALE: 1" = 10'-0"



2 ENLARGED DEMOLITION SITE PLAN - ADA PARKING
SCALE: 1" = 10'-0"

GENERAL SHEET NOTES

A ARCHITECT & CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT AND PATH OF TRAVEL COMPLIES WITH CBC 11B-206.

B CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT.

C DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH THE OWNER.

D PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.

E REFER TO CIVIL, MECHANICAL, PLUMBING, ELECTRICAL AND LANDSCAPE DRAWINGS FOR EXTENT OF CIVIL, MECHANICAL, PLUMBING, ELECTRICAL AND LANDSCAPE WORK.

F ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

G PATCH PAVING AT ELECTRICAL TRENCHING. S.E.D. FOR EXTENTS.

DEMOLITION SITE PLAN KEYNOTES

02.106 (E) PLAY STRUCTURE
02.113 (E) VEHICULAR GATE
02.123 (E) CONCRETE PAVING
02.124 (E) ASPHALT PAVING
02.140 (E) LANDSCAPE AREA TO REMAIN
02.141 (E) CONCRETE STAIR
02.142 (E) COURT STRIPING
02.143 (E) PARKING STRIPING
02.144 (E) DROP OFF ZONE
02.145 (E) PLANTING AREA
02.146 (E) COURTYARD
02.147 (E) SPEED BUMP
02.148 (E) STORAGE SHED
02.149 (E) ACCESSIBLE RAMP
02.330 (E) LIGHT POLE, S.E.D.
02.332 (E) ELECTRICAL TRANSFORMER AND CONCRETE PAD
02.401 REMOVE (E) POST AND SIGNAGE
02.406 REMOVE (E) FENCE AND GATES BETWEEN BUILDINGS. GRIND GATE POSTS DOWN FLUSH TO GRADE. INFILL POST VOID WITH CONCRETE, FLUSH TO ADJACENT.
02.407 REMOVE (E) DRINKING FOUNTAIN
02.510 REMOVE (E) ASPHALT, S.C.D. FOR EXTENTS
02.511 REMOVE (E) CONCRETE, S.C.D. FOR EXTENTS
02.512 REMOVE (E) RAMP, S.C.D.
02.513 REMOVE (E) HANDRAIL
02.514 REMOVE (E) LANDSCAPE AND PREP FOR NEW ACCESSIBLE RAMP, S.C.D. FOR EXTENTS
02.515 PARTIAL REMOVAL OF PLANTER WALL, S.C.D. FOR EXTENTS
02.523 REMOVE (E) LIGHT FIXTURE, S.E.D.
02.532 REMOVE (E) TREE, S.C.D.

GRAPHIC KEY - DEMOLITION SITE PLAN

- EXISTING TOILET ROOMS TO BE MODERNIZED
- EXISTING TOILET ROOMS TO BE REMAIN
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING COVERED WALKWAY TO REMAIN
- (E) CONSTRUCTION TO BE DEMOLISHED
- PROPERTY LINE
- (E) CHAIN LINK FENCE
- (E) ORNAMENTAL FENCE
- (E) F.H. EXISTING FIRE HYDRANT

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PROJECT
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OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JOHN C. DITTENBER III NO. C-25840 STATE OF CALIFORNIA REG. 07/31/26

STATE
DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

SHEET
DEMOLITION SITE PLAN

DATE 12.29.2025
JOB # 2025014
SHEET # A1.01

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CAMPUS CODE ANALYSIS

(E) 100 BUILDING:
DSA #: 01-101025 INC 2 & INC 4, THIS APPLICATION
- USE: OFFICE
- OCCUPANCY GROUP: E
- CONSTRUCTION TYPE: V-B
- ACTUAL AREA: 3,852 SF

(E) 200 BUILDING:
DSA #: 01-101025 INC 2 & INC 4, THIS APPLICATION
- USE: CLASSROOMS
- OCCUPANCY GROUP: E
- CONSTRUCTION TYPE: V-B
- ACTUAL AREA: 4,149 SF

(E) 300 BUILDING:
DSA #: 01-101025 INC 2 & INC 4, THIS APPLICATION
- USE: CLASSROOMS
- OCCUPANCY GROUP: E
- CONSTRUCTION TYPE: V-B
- ACTUAL AREA: 6,564 SF

(E) 400 BUILDING:
DSA #: 01-101025 INC 2 & INC 4, THIS APPLICATION
- USE: CLASSROOMS
- OCCUPANCY GROUP: E
- CONSTRUCTION TYPE: V-B
- ACTUAL AREA: 6,563 SF

(E) 500 BUILDING:
DSA #: 01-101025 INC 2 & INC 4, THIS APPLICATION
- USE: CLASSROOMS
- OCCUPANCY GROUP: E
- CONSTRUCTION TYPE: V-B
- ACTUAL AREA: 6,030 SF

(E) 600 BUILDING:
DSA #: 01-101025 INC 2 & INC 4, THIS APPLICATION
- USE: CLASSROOMS
- OCCUPANCY GROUP: E
- CONSTRUCTION TYPE: V-B
- ACTUAL AREA: 4,079 SF

(E) 700 BUILDING:
DSA #: 01-101025 INC 3 & INC 4, THIS APPLICATION
- USE: LIBRARY, MULTIPURPOSE
- OCCUPANCY GROUP: A-2, A-3
- CONSTRUCTION TYPE: V-B
- ACTUAL AREA: 10,945 SF

(E) PORTABLE BUILDING:
DSA #: 01-103888
- USE: CLASSROOMS
- OCCUPANCY GROUP: E
- CONSTRUCTION TYPE: V-B
- ACTUAL AREA: 1,900 SF

PARKING COUNT

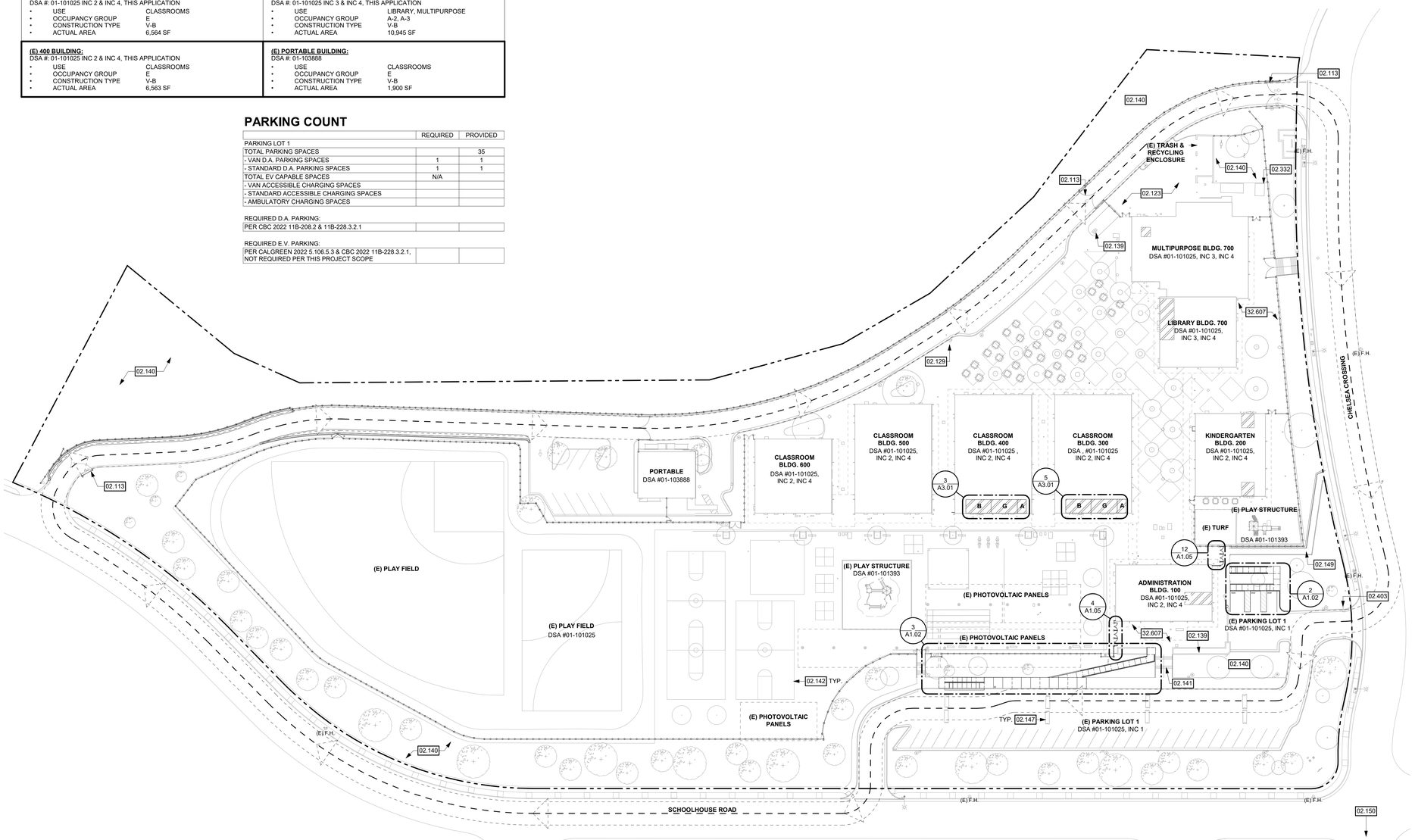
	REQUIRED	PROVIDED
PARKING LOT 1		
TOTAL PARKING SPACES		35
- VAN D.A. PARKING SPACES	1	1
- STANDARD D.A. PARKING SPACES	1	1
TOTAL EV CAPABLE SPACES	N/A	
- VAN ACCESSIBLE CHARGING SPACES		
- STANDARD ACCESSIBLE CHARGING SPACES		
- AMBULATORY CHARGING SPACES		

REQUIRED D.A. PARKING:

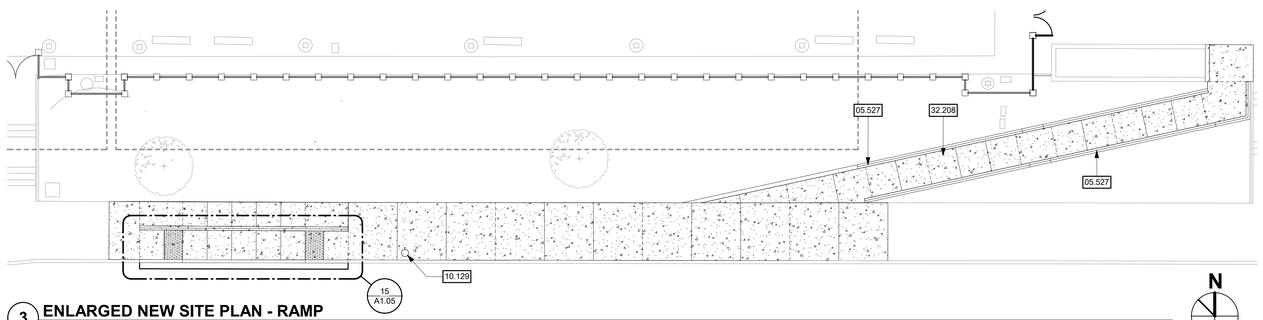
PER CBC 2022 11B-208.2 & 11B-228.3.2.1		

REQUIRED E.V. PARKING:

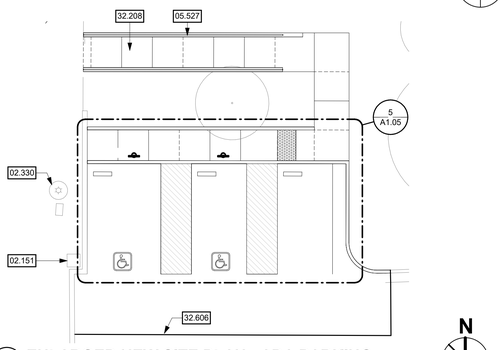
PER CALGREEN 2022 5.106.5.3 & CBC 2022 11B-228.3.2.1, NOT REQUIRED PER THIS PROJECT SCOPE		



1 **NEW SITE PLAN**
SCALE: 1" = 40'-0"



3 **ENLARGED NEW SITE PLAN - RAMP**
SCALE: 1" = 10'-0"



2 **ENLARGED NEW SITE PLAN - ADA PARKING**
SCALE: 1" = 10'-0"

GENERAL SHEET NOTES

A ARCHITECT & CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT AND PATH OF TRAVEL COMPLIES WITH CBC 11B-206.

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F ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

G PATCH PAVING AT ELECTRICAL TRENCHING. S.E.D. FOR EXTENTS.

SITE PLAN KEYNOTES

02.113 (E) VEHICULAR GATE
02.123 (E) CONCRETE PAVING
02.129 (E) FIRE HYDRANT
02.139 (E) PLANTER
02.140 (E) LANDSCAPE AREA TO REMAIN
02.141 (E) CONCRETE STAIR
02.142 (E) COURT STRIPING
02.147 (E) SPEED BUMP
02.149 (E) ACCESSIBLE RAMP
02.150 PUBLIC BUS STOP, 1 MILE AWAY AT INTERSECTION OF EDEN PARK PLACE AND SILICON VALLEY BLVD
02.151 (E) STORM DRAIN
02.330 (E) LIGHT POLE, S.E.D.
02.332 (E) ELECTRICAL TRANSFORMER AND CONCRETE PAD
02.403 (E) PARKING SIGNAGE AND POST TO BE DEMOLISHED
05.527 1 1/2" DIAMETER STANDARD STEEL PIPE HANDRAIL. SEE DETAIL 7/C6.1
10.129 PASSENGER DROP OFF SIGNAGE, SEE DETAIL 10 / A1.05
32.208 ACCESSIBLE RAMP FROM SIDEWALK TO ADMIN WITH RAILINGS, S.C.D.
32.606 EXTENTS OF PAVING WORK, S.C.D.
32.607 CUT AND PATCH (E) CONCRETE AS REQUIRED FOR ELECTRICAL ROUTING, S.E.D. AND 2/C6.1

GRAPHIC KEY - NEW SITE PLAN

(E) TOILET ROOMS TO BE MODERNIZED.
B BOYS
G GIRLS
A ALL GENDER, STAFF

(E) TOILET ROOMS TO REMAIN.

(E) CONSTRUCTION TO REMAIN
(E) COVERED WALKWAY TO REMAIN

PROPERTY LINE

(E) ORNAMENTAL FENCE

(N) ORNAMENTAL FENCE

(E) CHAIN LINK FENCE

(E) FIRE DEPARTMENT ACCESS, DSA #01-103888
FIRE DEPARTMENT ACCESS IS 20'-0" WIDE AND RATED FOR 96,000 LBS.

DA D.A. PATH OF TRAVEL
D.A. PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. D.A. PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM HEIGHT AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND BELOW 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

(E) F.H. EXISTING FIRE HYDRANT

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San Jose, CA 95113
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PROJECT
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OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT — JOHN C. DITTENHAFER — NO. C-25840 — EXP. 07-31-27 — STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
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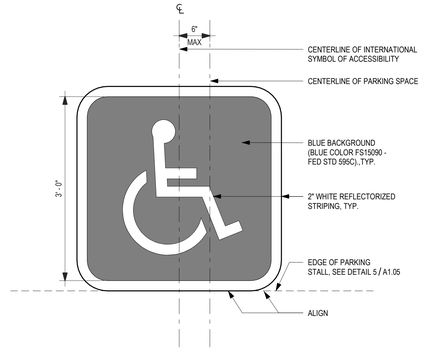
MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

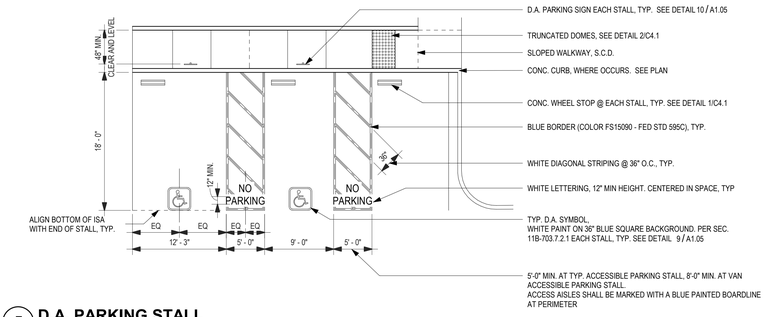
SHEET
NEW SITE PLAN & CODE ANALYSIS

DATE 12.29.2025
JOB # 2025014
SHEET # A1.02

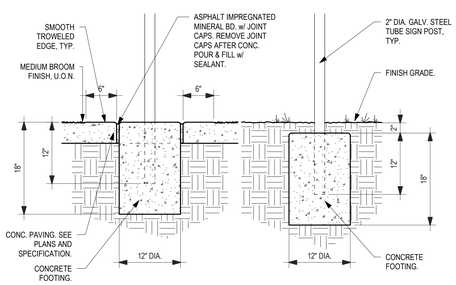
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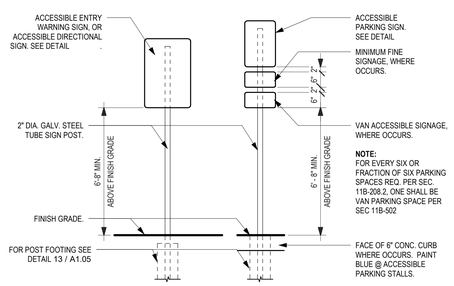
9 INTERNATIONAL SYMBOL OF ACCESSIBILITY
SCALE: 1" = 1'-0"



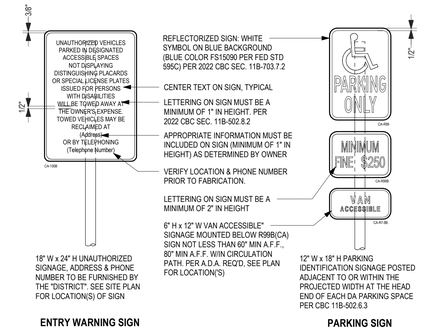
5 D.A. PARKING STALL
SCALE: 1/8" = 1'-0"



13 SITE SIGNAGE FOOTING
SCALE: 1" = 1'-0"



10 SITE SIGNAGE MOUNT
SCALE: 1/2" = 1'-0"

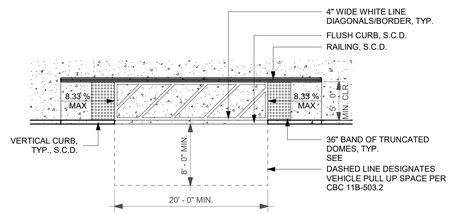


ENTRY WARNING SIGN

PARKING SIGN

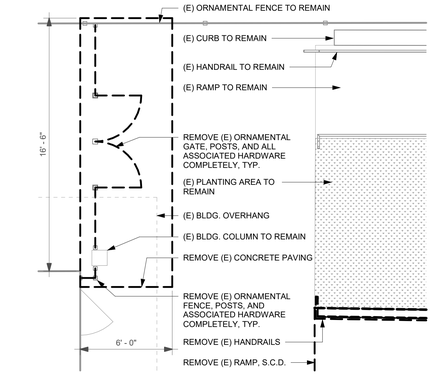
NOTE:
1. ALL SIGNS MUST HAVE REFLECTORIZED SURFACE FINISH
2. MOUNTING HEIGHTS SEE DETAIL 10 / A1.05

2 ACCESSIBLE PARKING SIGNS
SCALE: 1" = 1'-0"

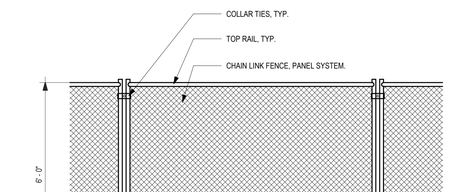


NOTE: S.C.D. FOR MORE INFORMATION

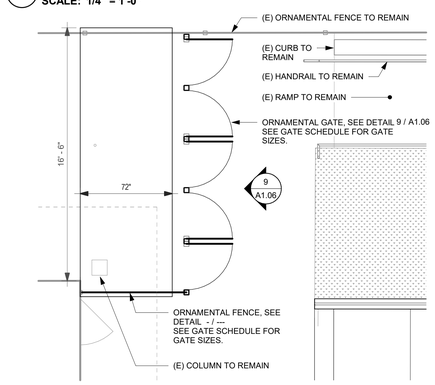
15 ENLARGED D.A DROP OFF
SCALE: 1/8" = 1'-0"



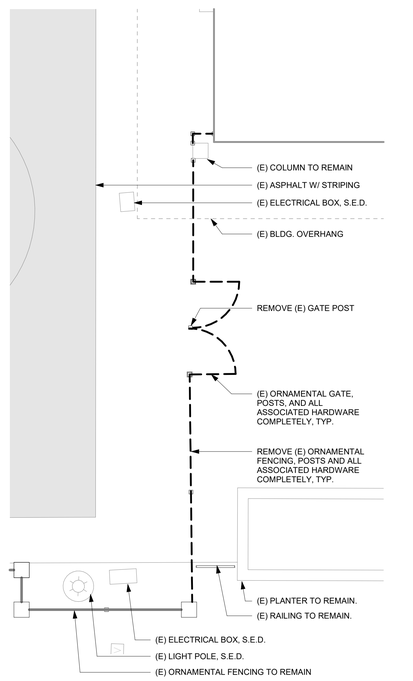
11 ENLARGED DEMOLITION PLAN - EAST GATES
SCALE: 1/4" = 1'-0"



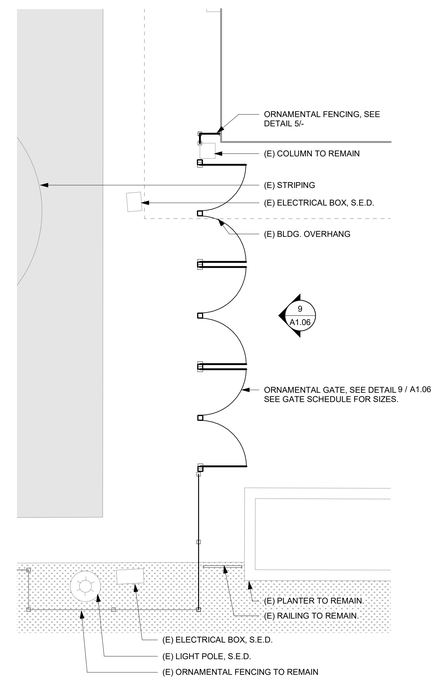
16 REQ'D TEMPORARY CONSTRUCTION FENCE
SCALE: 1/2" = 1'-0"



12 ENLARGED NEW PLAN - EAST GATES
SCALE: 1/4" = 1'-0"



8 ENLARGED DEMOLITION PLAN - SOUTH GATES
SCALE: 1/4" = 1'-0"



4 ENLARGED NEW PLAN - SOUTH GATES
SCALE: 1/4" = 1'-0"

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LICENSED ARCHITECT — NO. C-25840 — STATE OF CALIFORNIA — REN: 07/31/27

STATE

DSA FILE NUMBER	43-41
APPL #	01-122831

REVISIONS

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△		

MILESTONES

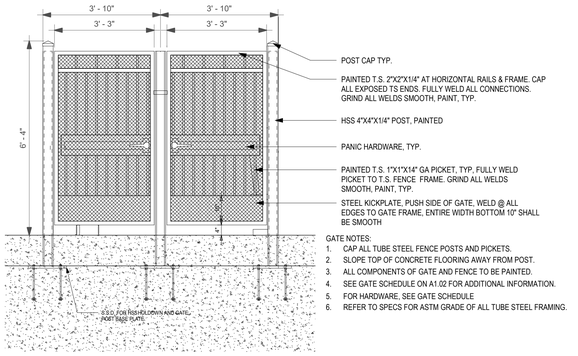
SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

SHEET

SITE DETAILS

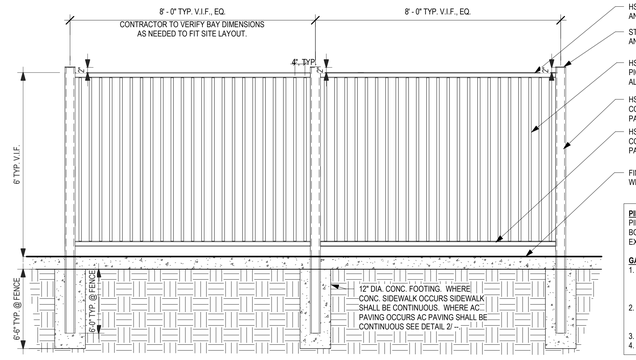
DATE	12.29.2025
JOB #	2025014
SHEET #	A1.05

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GATE NOTES:
1. CAP ALL TUBE STEEL FENCE POSTS AND PICKETS.
2. SLOPE TOP OF CONCRETE FLOORING AWAY FROM POST.
3. ALL COMPONENTS OF GATE AND FENCE TO BE PAINTED.
4. SEE GATE SCHEDULE ON A1.02 FOR ADDITIONAL INFORMATION.
5. FOR HARDWARE, SEE GATE SCHEDULE
6. REFER TO SPECS FOR ASTM GRADE OF ALL TUBE STEEL FRAMING.

13 ORNAMENTAL GATE INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"

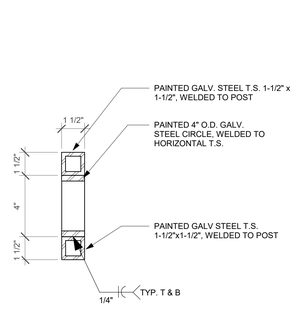


PIER DEPTH NOTE:
PIER DEPTHS SHOWN ARE A MINIMUM AND SHALL BE MEASURED FROM BOTTOM OF SUBGRADE OR FROM TOP OF NATIVE SOIL BELOW ANY EXISTING FILL OR LOOSE SOIL, WHICHEVER IS GREATER.

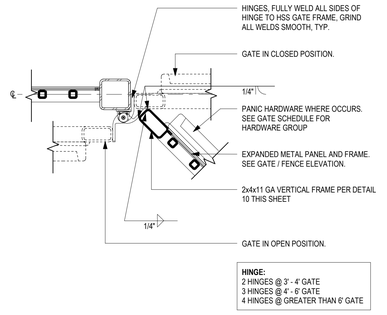
GATE & FENCE NOTE:
1. FENCE POST LAYOUT TO BE DETERMINED ON SITE. FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES SPACE POSTS TO AVOID CONFLICT. SUBMIT SHOP DRAWINGS FOR ENTIRE FENCE LAYOUT.
2. PROVIDE SLIP JOINTS AT ALL (E) & TS FENCE LOCATED AT SECOND POST FROM THE GATE POST AT BOTH SIDES OF THE GATE. SEE DETAIL 1/A1.04.
3. PAINT COLOR TO MATCH EXISTING.
4. FOR HARDWARE, SEE DOOR HARDWARE SPEC.

* (E) FENCE PANELS MAY BE REUSED AS ABLE. GENERAL CONTRACTOR TO VERIFY IF ADDITIONAL PANELS ARE NEEDED AND SHALL PROVIDE THEM AS REQUIRED.

5 OUTSIDE ELEVATION @ DECORATIVE STEEL FENCE BAY
SCALE: 1/2" = 1'-0"

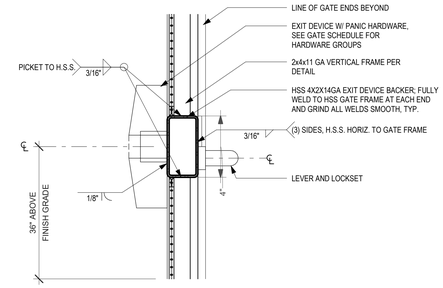


10 SECTION THROUGH PICKET T.S.
SCALE: 3" = 1'-0"

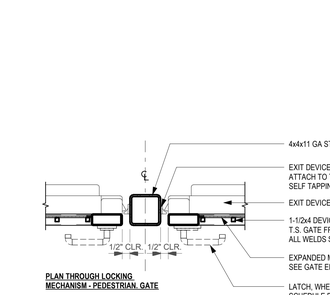


HINGE:
2 HINGES @ 3' - 4' GATE
3 HINGES @ 4' - 6' GATE
4 HINGES @ GREATER THAN 6' GATE

6 ORNAMENTAL STEEL GATE HINGE
SCALE: 1 1/2" = 1'-0"

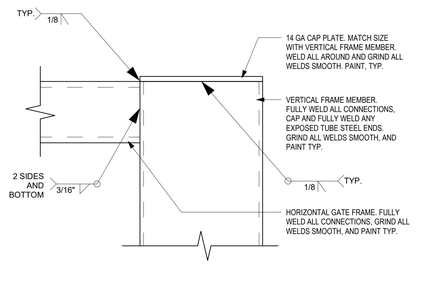


2 SECTION THROUGH PANIC PUSH BAR AT ORNAMENTAL GATE
SCALE: 3" = 1'-0"

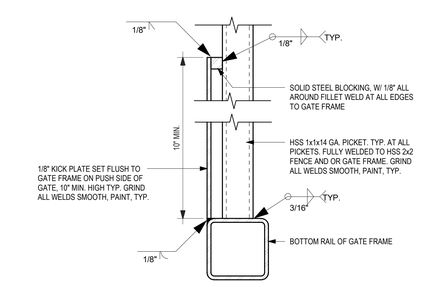


PLAN THROUGH LOCKING MECHANISM - PEDESTRIAN. GATE

11 ORNAMENTAL GATE STRIKE
SCALE: 1 1/2" = 1'-0"

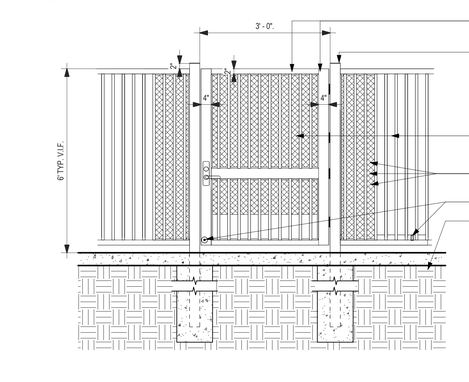


7 HORIZ. FRAME TO VERT. FRAME CONNECTION
SCALE: 6" = 1'-0"



PUSH SIDE OF GATE

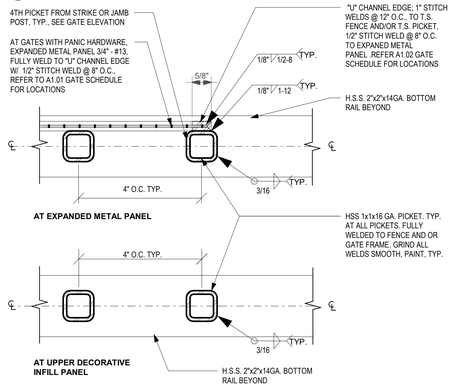
3 SECTION THROUGH KICK PLATE
SCALE: 6" = 1'-0"



PIER DEPTH NOTE:
PIER DEPTHS SHOWN ARE A MINIMUM AND SHALL BE MEASURED FROM BOTTOM OF SUBGRADE OR FROM TOP OF NATIVE SOIL BELOW ANY EXISTING FILL OR LOOSE SOIL, WHICHEVER IS GREATER.

GATE & FENCE NOTE:
1. FENCE POST LAYOUT TO BE DETERMINED ON SITE. FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES SPACE POSTS TO AVOID CONFLICT. SUBMIT SHOP DRAWINGS FOR ENTIRE FENCE LAYOUT.
2. PROVIDE SLIP JOINTS AT ALL (E) & TS FENCE LOCATED AT SECOND POST FROM THE GATE POST AT BOTH SIDES OF THE GATE. SEE DETAIL 1/A1.04.
3. PAINT COLOR TO MATCH EXISTING.
4. FOR HARDWARE, SEE DOOR HARDWARE SPEC.

12 OUTSIDE ELEVATION @ DECORATIVE STEEL SINGLE GATE
SCALE: 1/2" = 1'-0"



4 SECTION THROUGH PICKETS
SCALE: 6" = 1'-0"

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PROJECT
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OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JOHN C. PITTENGER NO. C-25840 REN. 07/31/27 STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
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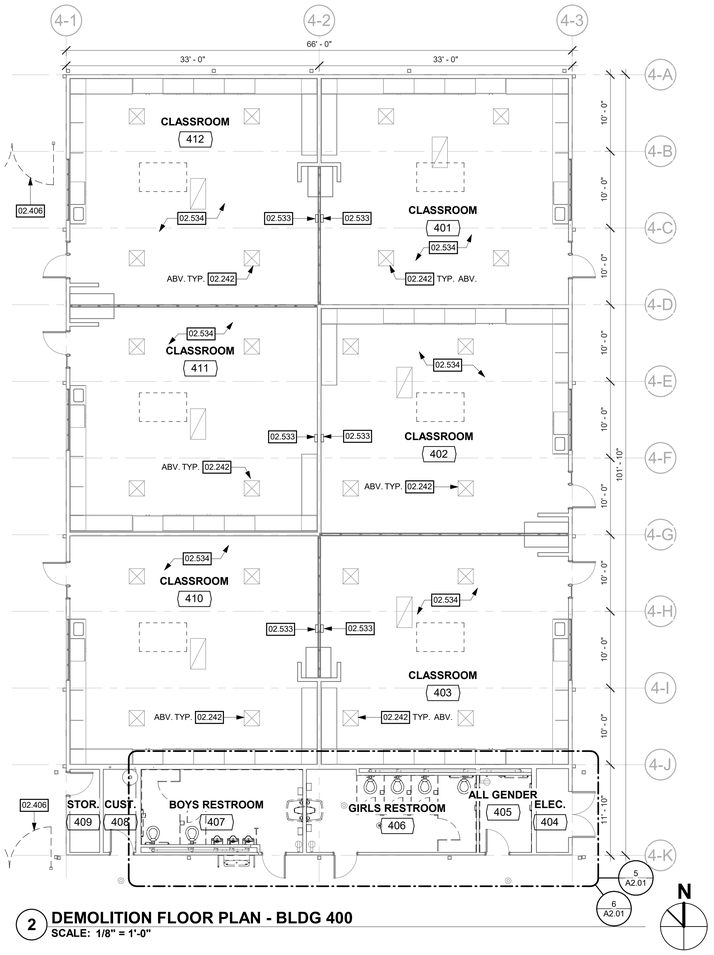
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DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

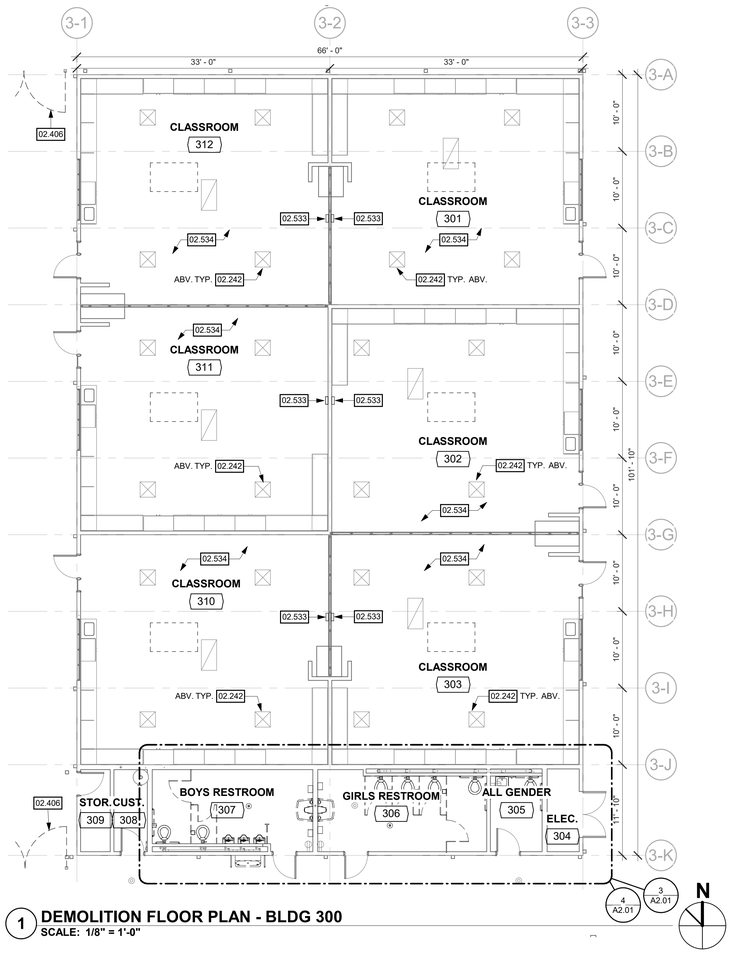
SHEET
SITE DETAILS

DATE 12.29.2025
JOB # 2025014
SHEET # A1.06

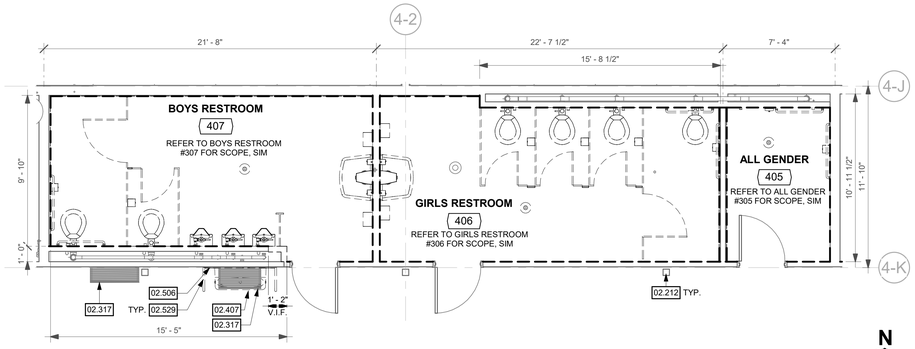
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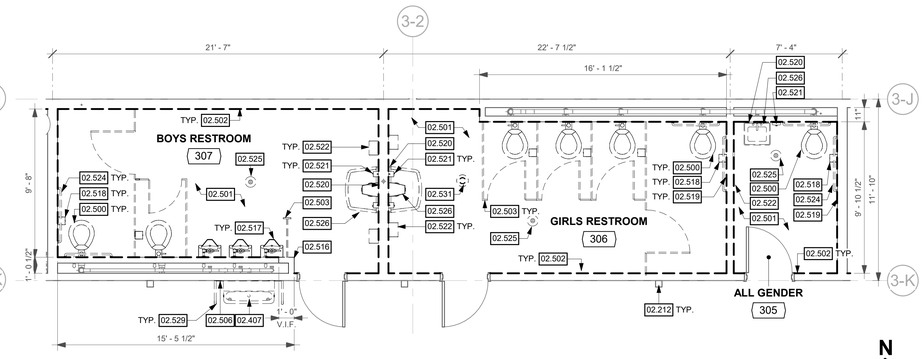
2 **DEMOLITION FLOOR PLAN - BLDG 400**
SCALE: 1/8" = 1'-0"



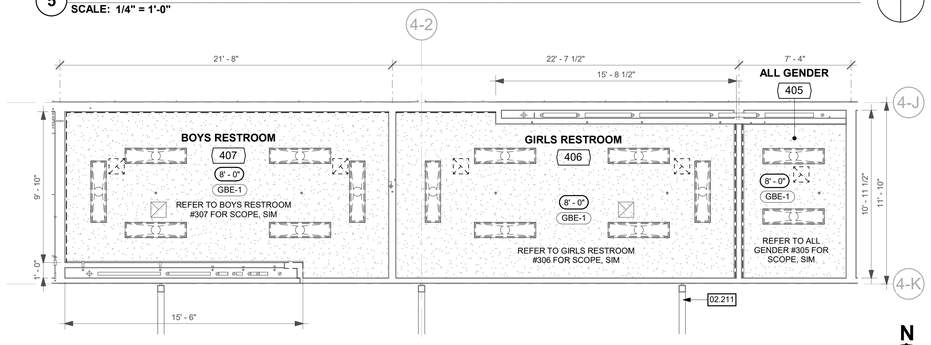
1 **DEMOLITION FLOOR PLAN - BLDG 300**
SCALE: 1/8" = 1'-0"



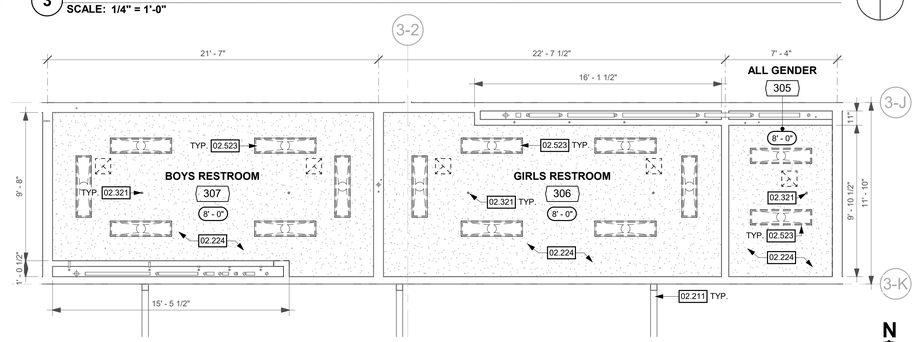
5 **DEMOLITION ENLARGED RESTROOM FLOOR PLAN - BLDG 400**
SCALE: 1/4" = 1'-0"



3 **DEMOLITION ENLARGED RESTROOM FLOOR PLAN - BLDG 300**
SCALE: 1/4" = 1'-0"



6 **DEMOLITION ENLARGED RESTROOM RCP - BLDG 400**
SCALE: 1/4" = 1'-0"



4 **DEMOLITION ENLARGED RESTROOM RCP - BLDG 300**
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

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B REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION WORK.

C VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING WORK.

D ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON PLANS.

E PATCH AND PAINT ALL (E) SURFACES AFFECTED BY WORK.

PROJECT ALTERNATES

DEDUCTIVE ALTERNATE 1
ALL WORK WITHIN ALL GENDER RESTROOM TO BE REMOVED.

DEMOLITION FLOOR PLAN KEYNOTES

02.211	(E) STEEL BEAM TO REMAIN
02.212	(E) STEEL COLUMN TO REMAIN
02.224	(E) GYPSUM BOARD CEILING TO REMAIN. REMOVE (E) FINISH AS REQUIRED FOR CONSTRUCTION ACCESS. (E) STRUCTURE TO REMAIN
02.242	(E) REGISTERS ABOVE TO REMAIN, S.M.D.
02.317	(E) BUILDING VENT TO REMAIN
02.321	(E) FIRE SPRINKLER HEAD
02.406	REMOVE (E) FENCE AND GATES BETWEEN BUILDINGS. GRIND GATE POSTS DOWN FLUSH TO GRADE. INFILL POST VOID WITH CONCRETE, FLUSH TO ADJACENT.
02.407	REMOVE (E) DRINKING FOUNTAIN
02.500	REMOVE (E) WATER CLOSET, S.P.D.
02.501	REMOVE (E) RESILIENT EPOXY FLOORING, PATCH AND PREP AS REQUIRED FOR NEW
02.502	REMOVE (E) WALL FINISH DOWN TO (E) FRAMING TO REMAIN
02.503	REMOVE (E) TOILET PARTITIONS AND PARTITION DOORS
02.506	REMOVE TILE FINISH. PREP FOR NEW TILE FINISH. SEE DETAIL 3 / A6.01 FOR EXTENTS OF PLASTER PATCH AND REPAIR TO MATCH EXISTING
02.516	REMOVE (E) WALL
02.517	REMOVE (E) URINAL, S.P.D.
02.518	REMOVE (E) TOILET PAPER DISPENSER
02.519	REMOVE (E) SANITARY NAPKIN DISPOSAL
02.520	REMOVE (E) MIRROR
02.521	REMOVE (E) SOAP DISPENSER
02.522	REMOVE (E) HAND DRYER AND PREP FOR NEW FIXTURE, S.E.D.
02.523	REMOVE (E) LIGHT FIXTURE, S.E.D.
02.524	REMOVE (E) GRAB BAR
02.525	REMOVE (E) FLOOR DRAIN, S.P.D.
02.526	REMOVE (E) LAVATORY, S.P.D.
02.529	REMOVE (E) RAILING
02.531	REMOVE (E) FLOOR CLEAN OUT COVER AND PREP FOR NEW
02.533	REMOVE (E) THERMOSTAT, S.M.D. PREP AREA FOR NEW THERMOSTAT. PATCH AND PAINT SURFACE TO MATCH EXISITNG FINISH
02.534	REMOVE AND REINSATLL (E) CEILING TILES AS REQUIRED FOR CONSTRUCTION ACCESS ABOVE, S.M.D. AND S.S.D, ALTERATION OF SUSPENSION GRID AS REQURIED SHALL NOT EXCEED 10% OF ROOM AREA

GRAPHIC KEY - DEMOLITION FLOOR PLAN

WALL TYPES:

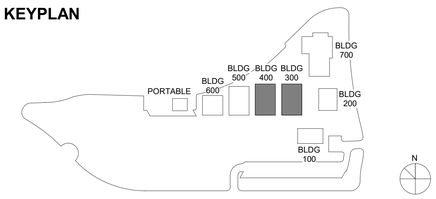
EXISTING WALL TO BE DEMOLISED

EXISTING WALL TO REMAIN

EXISTING DOOR AND/OR FRAME TO BE REMOVED. SEE NEW FLOOR PLAN AND DOOR SCHEDULE FOR MORE INFORMATION.

EXISTING DOOR AND/OR FRAME TO REMAIN. SEE DOOR SCHEDULE FOR MORE INFORMATION.

KEYPLAN



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OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JOHN T. DITTENBER NO. C-25840 STATE OF CALIFORNIA REG. 07/31/25

STATE
DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

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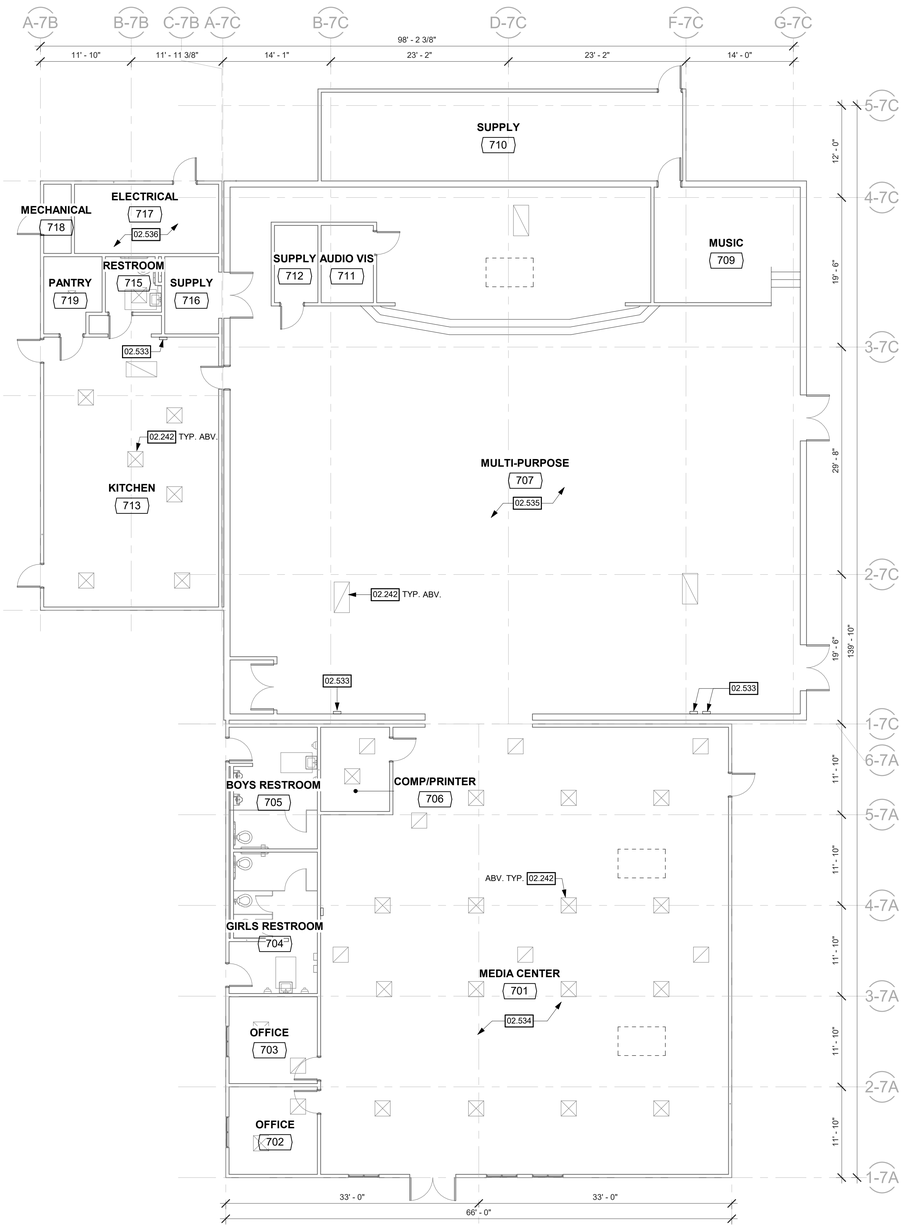
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90% CD	
DSA SUB	12.29.2025

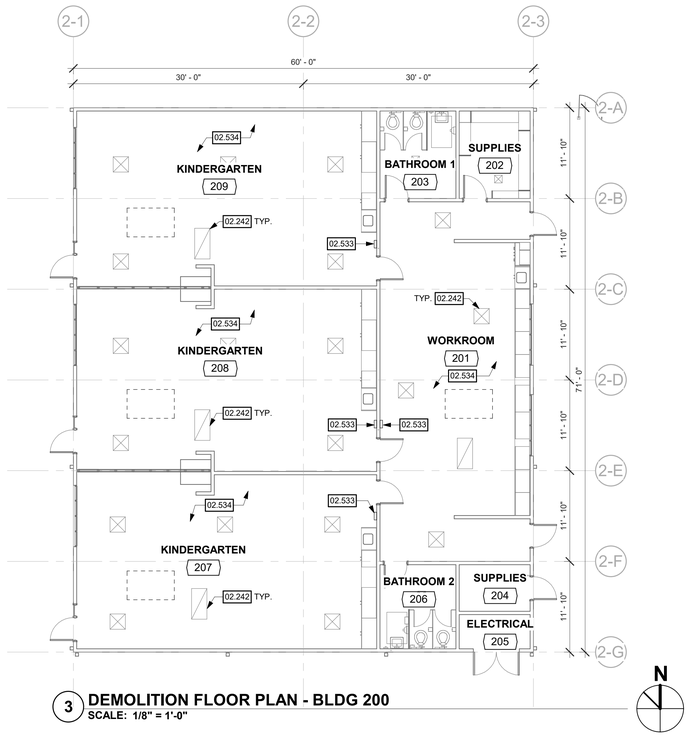
SHEET
DEMOLITION PLANS, ENLARGED PLANS, & RCPS - BLDGS. 300 & 400

DATE 12.29.2025
JOB # 2025014
SHEET # A2.01

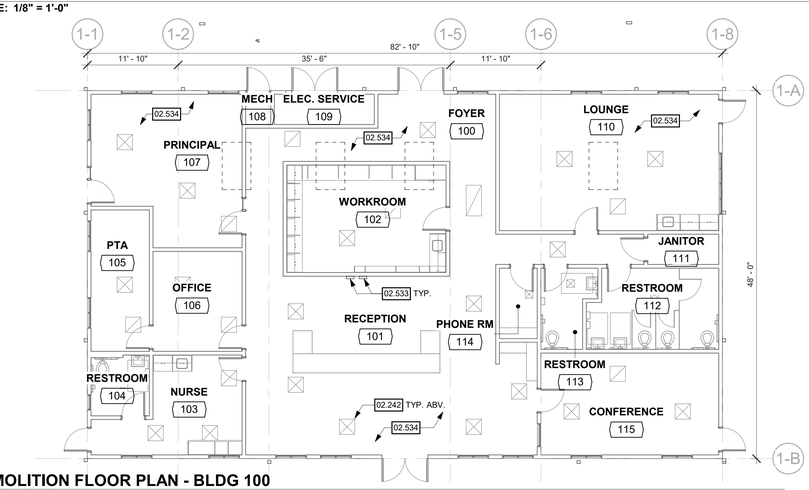
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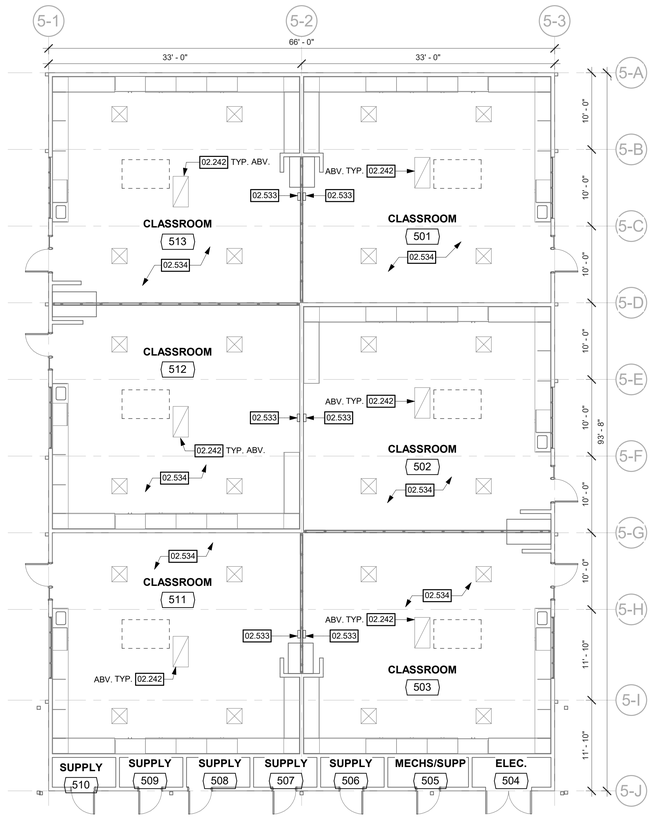
2 **DEMOLITION FLOOR PLAN - BLDG 700**
SCALE: 1/8" = 1'-0"



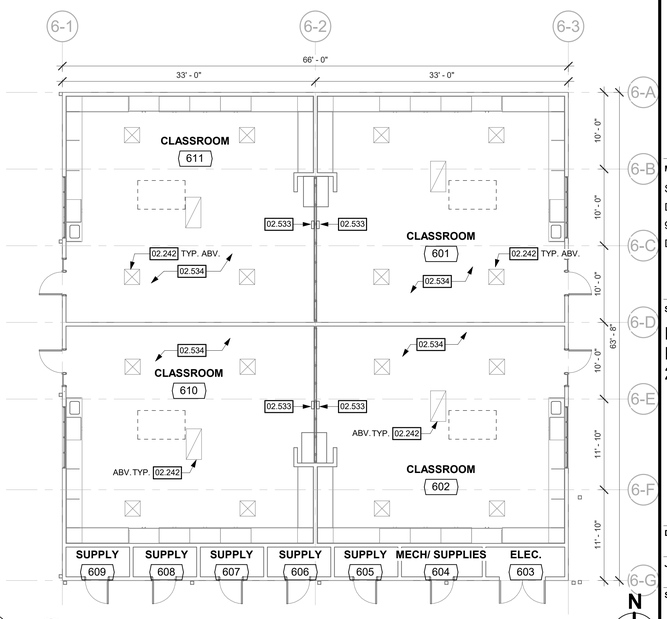
3 **DEMOLITION FLOOR PLAN - BLDG 200**
SCALE: 1/8" = 1'-0"



1 **DEMOLITION FLOOR PLAN - BLDG 100**
SCALE: 1/8" = 1'-0"



4 **DEMOLITION FLOOR PLAN - BLDG 500**
SCALE: 1/8" = 1'-0"



5 **DEMOLITION FLOOR PLAN - BLDG 600**
SCALE: 1/8" = 1'-0"

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E PATCH AND PAINT ALL (E) SURFACES AFFECTED BY WORK.

DEMOLITION FLOOR PLAN KEYNOTES

02.242	(E) REGISTERS ABOVE TO REMAIN, S.M.D.
02.533	REMOVE (E) THERMOSTAT, S.M.D. PREP AREA FOR NEW THERMOSTAT. PATCH AND PAINT SURFACE TO MATCH EXISITNG FINISH
02.534	REMOVE AND REINSATLL (E) CEILING TILES AS REQUIRED FOR CONSTRUCTION ACCESS ABOVE, S.M.D. AND S.S.D, ALTERATION OF SUSPENSION GRID AS REQURIED SHALL NOT EXCEED 10% OF ROOM AREA
02.535	REMOVE AND REINSTALL (E) GYP BOARD FINISH CEILING TILES AS REQUIRED FOR CONSTRUCTION ACCESS ABOVE, S.M.D. AND S.S.D., PATCH AND PAINT TO MATCH (E) ADJACENT
02.536	(E) EXPOSED CEILING. S.M.D. AND S.S.D. FOR UPGRADES

GRAPHIC KEY - DEMOLITION FLOOR PLAN

WALL TYPES:

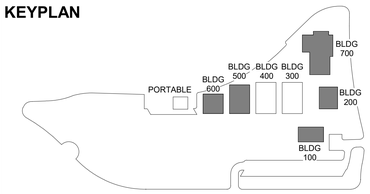
EXISTING WALL TO BE DEMOLISED

EXISTING WALL TO REMAIN

EXISTING DOOR AND/OR FRAME TO BE REMOVED. SEE NEW FLOOR PLAN AND DOOR SCHEDULE FOR MORE INFORMATION.

EXISTING DOOR AND/OR FRAME TO REMAIN. SEE DOOR SCHEDULE FOR MORE INFORMATION.

KEYPLAN



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CONSULTANT

STAMP

LICENSED ARCHITECT — JOHN C. DITTENHAFER — NO. C-25840 — EXP. 07/31/2027 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	43-41
APPL #	01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

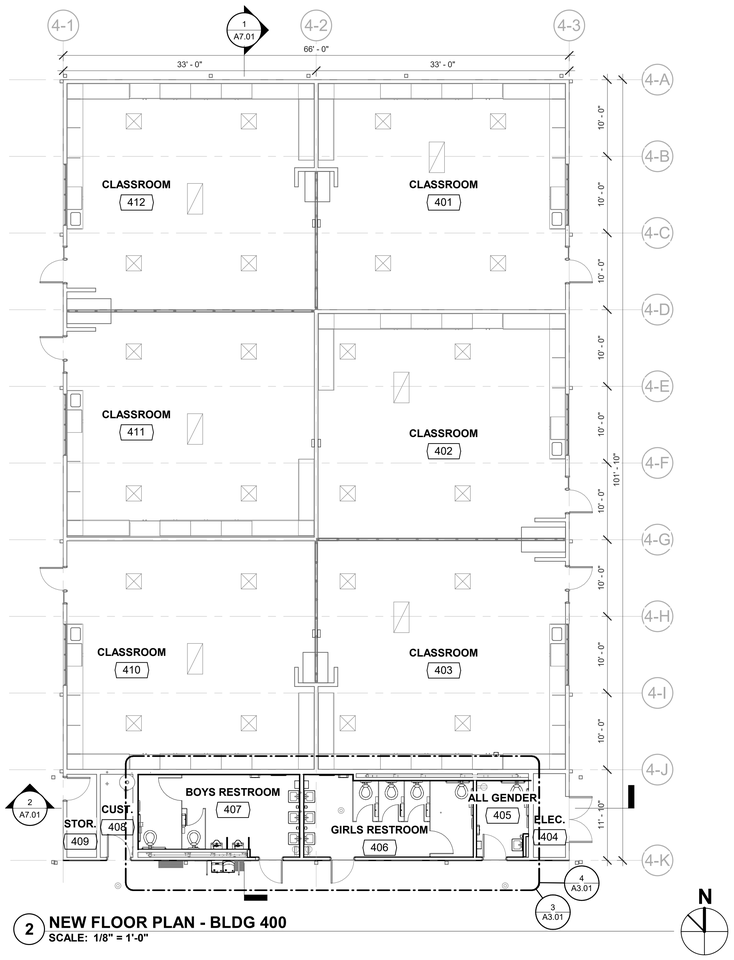
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90% CD	
DSA SUB	12.29.2025

SHEET

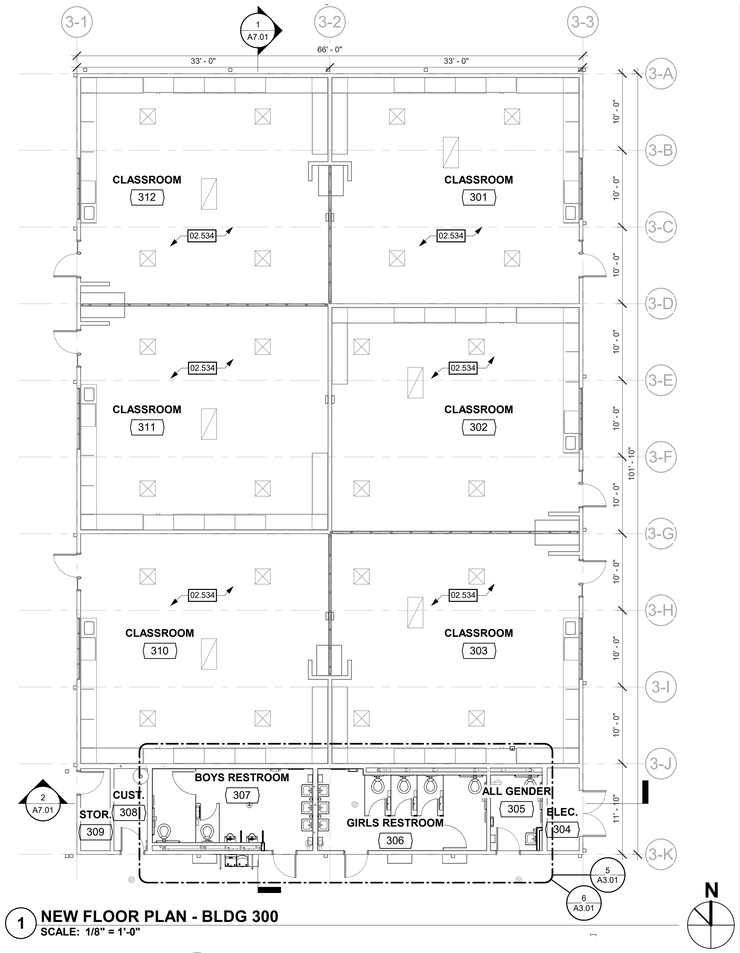
DEMOLITION FLOOR PLANS - BLDGS 100, 200, 500, 600, & 700

DATE	12.29.2025
JOB #	2025014
SHEET #	A2.02

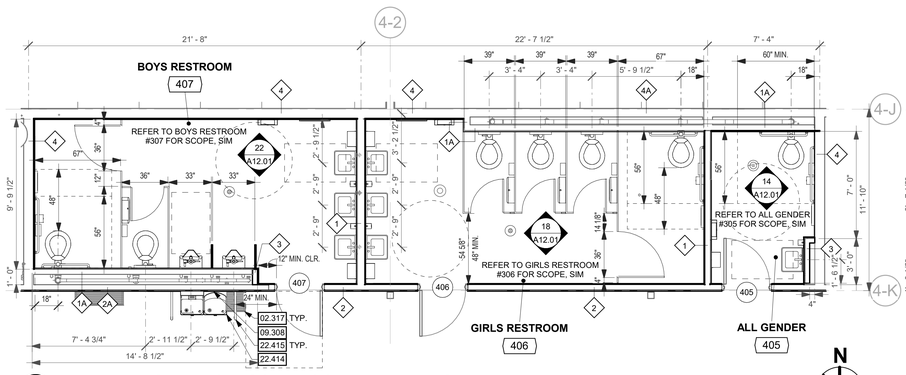
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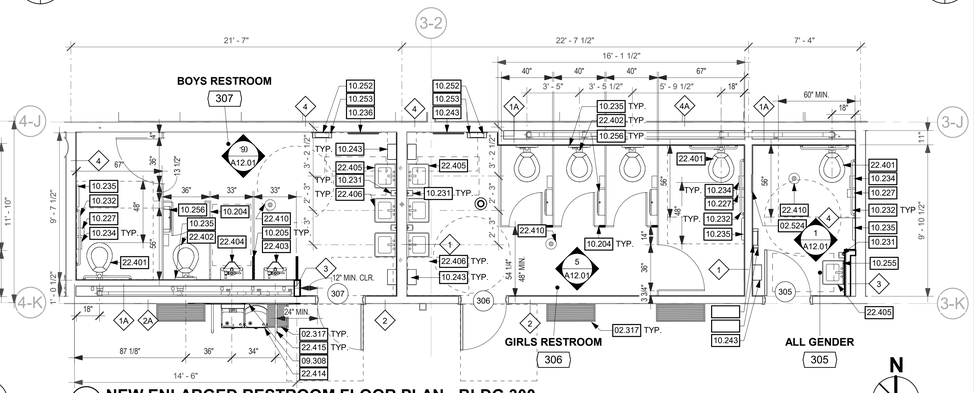
2 NEW FLOOR PLAN - BLDG 400
SCALE: 1/8" = 1'-0"



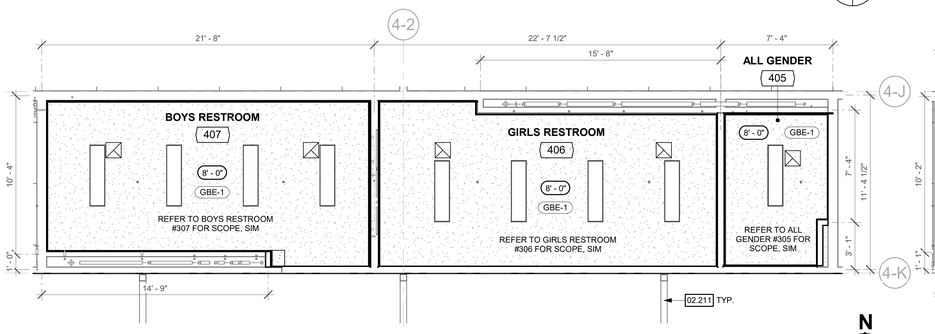
1 NEW FLOOR PLAN - BLDG 300
SCALE: 1/8" = 1'-0"



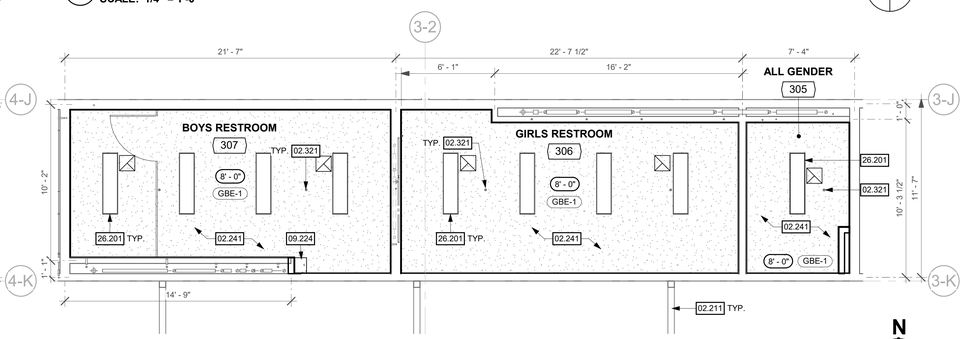
3 NEW ENLARGED RESTROOM FLOOR PLAN - BLDG 400
SCALE: 1/4" = 1'-0"



5 NEW ENLARGED RESTROOM FLOOR PLAN - BLDG 300
SCALE: 1/4" = 1'-0"



4 NEW ENLARGED RESTROOM RCP - BLDG 400
SCALE: 1/4" = 1'-0"



6 NEW ENLARGED RESTROOM RCP - BLDG 300
SCALE: 1/4" = 1'-0"

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PROJECT ALTERNATES

DEDUCTIVE ALTERNATE 1
ALL WORK WITHIN ALL GENDER RESTROOM TO BE REMOVED.

FLOOR PLAN KEYNOTES

02.211 (E) STEEL BEAM TO REMAIN
02.241 (E) GYPSUM BOARD CEILING, PATCHED AND PAINTED
02.317 (E) BUILDING VENT TO REMAIN
02.321 (E) FIRE SPRINKLER HEAD
02.524 REMOVE (E) GRAB BAR
02.534 REMOVE AND REINSATLL (E) CEILING TILES AS REQUIRED FOR CONSTRUCTION ACCESS ABOVE, S.M.D. AND S.S.D, ALTERATION OF SUSPENSION GRID AS REQURIED SHALL NOT EXCEED 10% OF ROOM AREA
09.224 PATCH AND PAINT (E) GYP BOARD CEILING TO MATCH EXISITNG
09.308 EXTERIOR FRP WALL FINISH
10.204 FLOOR MOUNTED, OVERHEAD BRACED, SOLID COLOR REINFORCED COMPOSITE SUBSTRATE TOILET COMPARTMENT. SEE DETAIL 2 / A9.10
10.205 FLOOR TO CEILING, SOLID COLOR REINFORCED COMPOSITE SUBSTRATE URINAL SCREEN. SEE DETAIL 2 / A9.10
10.227 STAINLESS STEEL RECESSED SINGLE ROLL ADA TOILET TISSUE ROLL DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.231 SURFACE MOUNT SOAP DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.232 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.234 STAINLESS STEEL SURFACE MOUNTED SANITARY NAPKIN DISPOSAL UNIT. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.235 STAINLESS STEEL SURFACE MOUNTED SEAT-COVER DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.236 24" x 48" MIRROR UNIT WITH STAINLESS STEEL ANGLE FRAME. FOR BACKING SEE DETAIL 7 / A9.10
10.243 WARM-AIR DRYER. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.252 SEMI-RECESSED WASTE RECEPTACLE, FOR MOUNTING HEIGHTS, SEE DETAIL 1 / A9.10 AND 8 / A9.10
10.253 FOLDED PAPER TOWEL DISPENSER, FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.255 24" X 36" MIRROR UNIT WITH STAINLESS STEEL ANGLE FRAME. FOR MOUNTING HEIGHT SEE DETAIL 7 / A9.10
10.256 SURFACE MOUNT STAINLESS STEEL SINGLE ROLL TOILET TISSUE ROLL DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
22.401 D.A. WATER CLOSET, S.P.D. AND SEE DETAIL 1 / A9.10
22.402 WATER CLOSET, S.P.D. AND SEE DETAIL 1 / A9.10
22.403 D.A. URINAL, S.P.D.
22.404 URINAL, S.P.D.
22.405 D.A. LAVATORY, S.P.D.
22.406 LAVATORY, S.P.D.
22.410 FLOOR DRAIN, S.P.D.; SLOPE TO DRAIN, TYP.
22.414 D.A. HI-LO DRINKING FOUNTAIN, S.P.D. AND DETAIL 12 / A8.10
22.415 ALCOVE RAIL, SEE DETAIL 12 / A8.10
26.201 LIGHT FIXTURE, S.E.D.

GRAPHIC KEY - NEW FLOOR PLAN

WALL TYPES

EXISTING WALL TO REMAIN

WALL TYPE, REFER TO SHEET A9.XX FOR WALL TYPE DESCRIPTION, FIRE RATING LISTING, AND SOUND RATING WHERE APPLICABLE, TYP.

STUD WALL

GRAPHIC KEY - NEW REFLECTED CEILING PLAN

(E) FRAMED GYPSUM BOARD CEILING

(E) GYP. BD. CEILING, PATCHED AND PAINTED

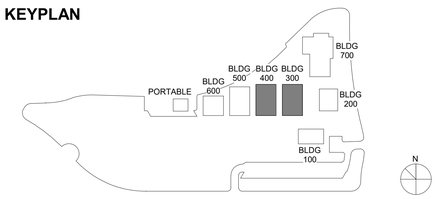
ELECTRICAL SYMBOLS

LIGHT FIXTURES, REFER TO ELECTRICAL DWGS. FOR SIZE, TYPE, AND MFR.; TO BE LOCATED PER ARCHITECTURAL DWGS.

MECHANICAL SYMBOLS

(E) EXHAUST AIR, REFER TO MECHANICAL DWGS.

KEYPLAN



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San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN C. DITTENHAFER NO. C-25840 EXP. 07-31-27 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
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MILESTONES

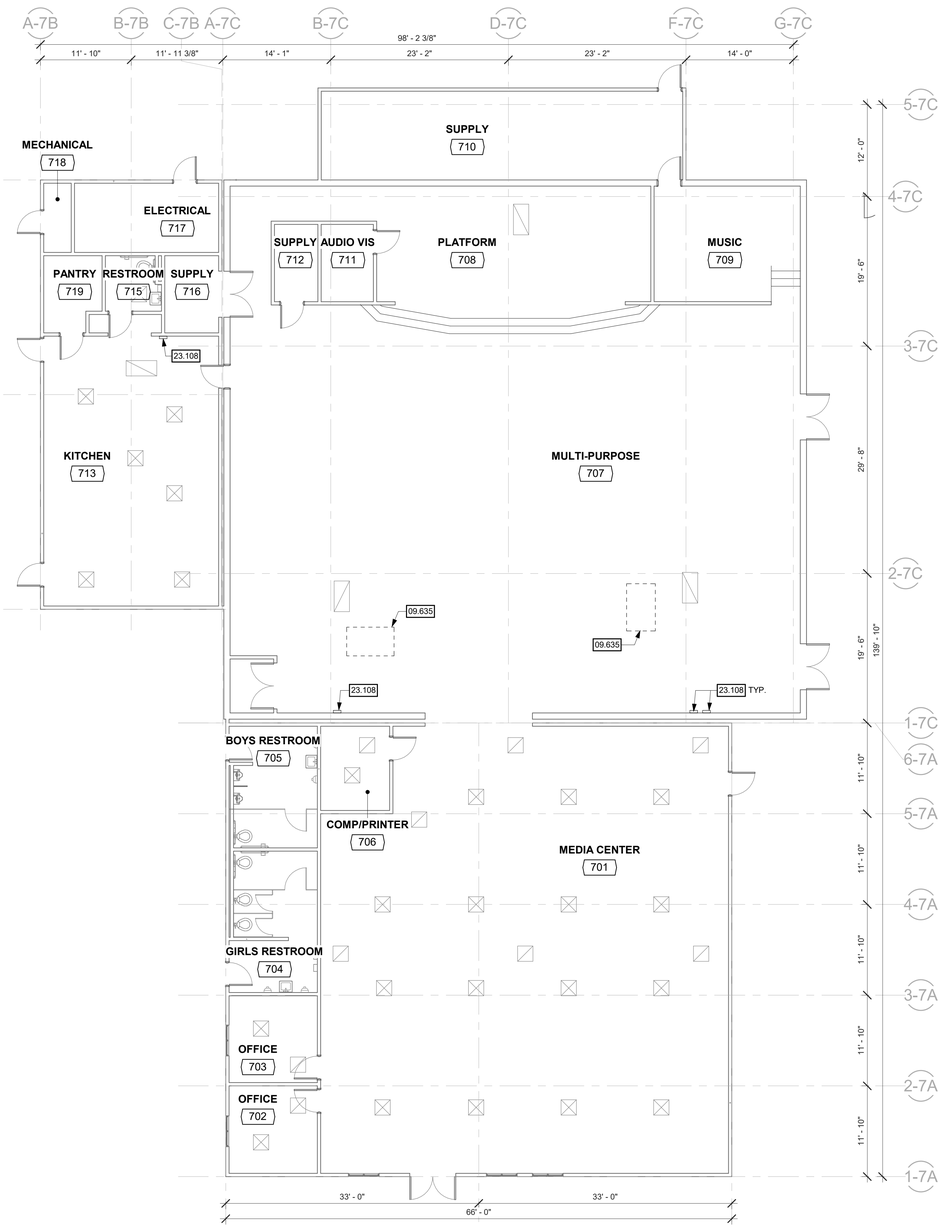
SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

SHEET

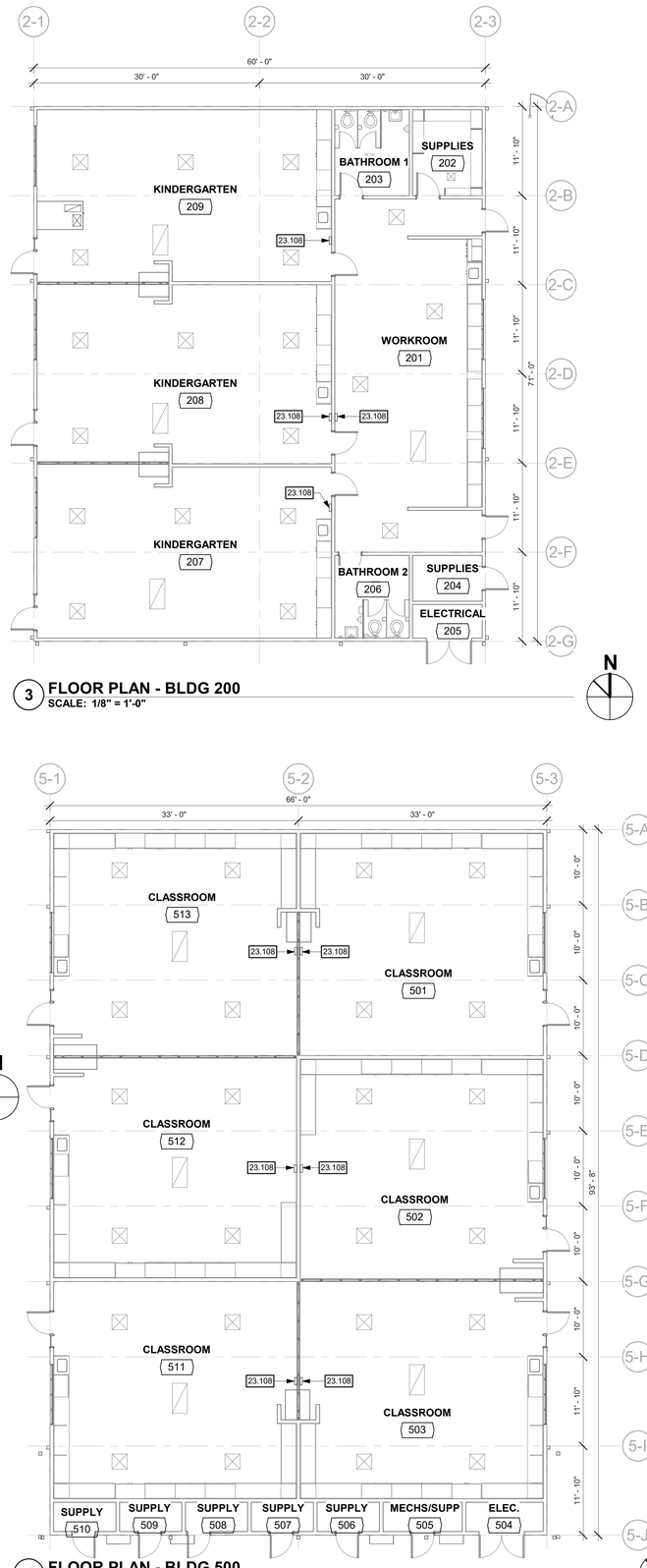
NEW FLOOR PLANS, ENLARGED PLANS, AND RCPS - BLDGS. 300 & 400

DATE 12.29.2025
JOB # 2025014
SHEET # A3.01

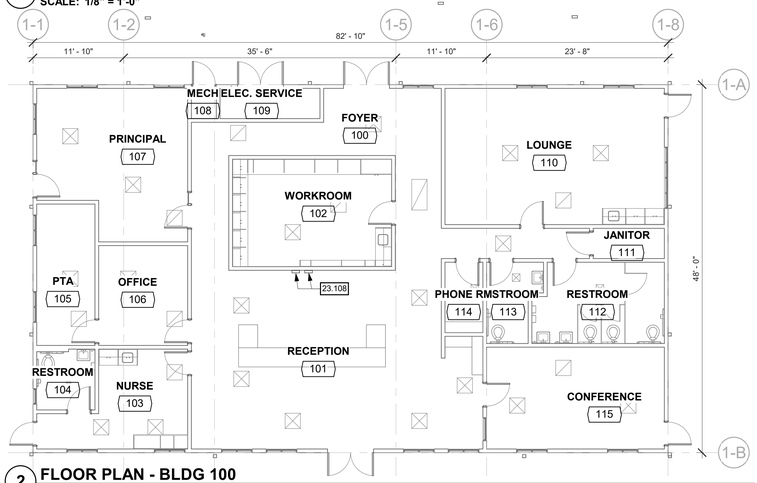
12/29/2025 11:42:54 PM



1 **FLOOR PLAN - BLDG 700**
SCALE: 1/8" = 1'-0"

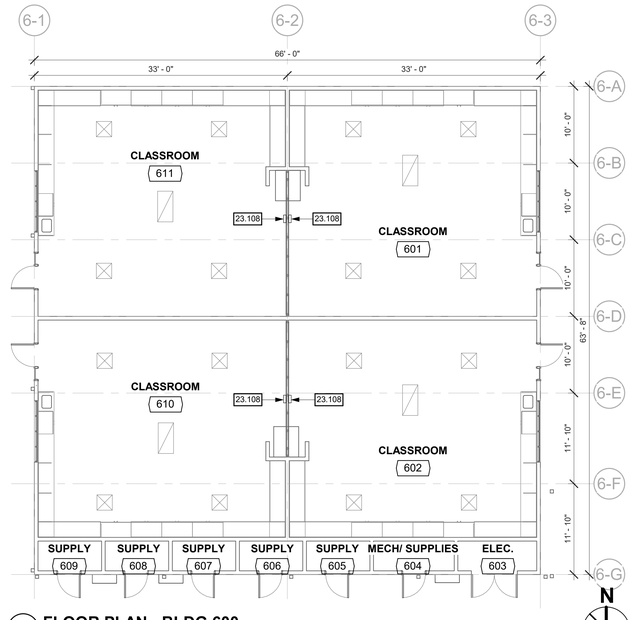


3 **FLOOR PLAN - BLDG 200**
SCALE: 1/8" = 1'-0"



2 **FLOOR PLAN - BLDG 100**
SCALE: 1/8" = 1'-0"

4 **FLOOR PLAN - BLDG 500**
SCALE: 1/8" = 1'-0"



5 **FLOOR PLAN - BLDG 600**
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR PLANS.

B REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION WORK.

C VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING WORK.

D ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON PLANS.

E PATCH AND PAINT ALL (E) SURFACES AFFECTED BY WORK.

DEMOLITION FLOOR PLAN KEYNOTES

09.635 PAINT EXPOSED STRUCUTRAL UPGRADES, S.M.D. AND S.S.D.
23.108 THERMOSTAT, S.M.D.

GRAPHIC KEY - DEMOLITION FLOOR PLAN

WALL TYPES:

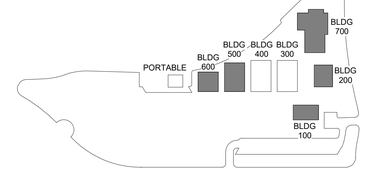
EXISTING WALL TO BE DEMOLISED

EXISTING WALL TO REMAIN

EXISTING DOOR AND/OR FRAME TO BE REMOVED. SEE NEW FLOOR PLAN AND DOOR SCHEDULE FOR MORE INFORMATION.

EXISTING DOOR AND/OR FRAME TO REMAIN. SEE DOOR SCHEDULE FOR MORE INFORMATION.

KEYPLAN



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CONSULTANT

STAMP

LICENSED ARCHITECT — JOSEPH D. PETTIBONE — NO. C-25840 — REN. 07-31-27 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

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MILESTONES

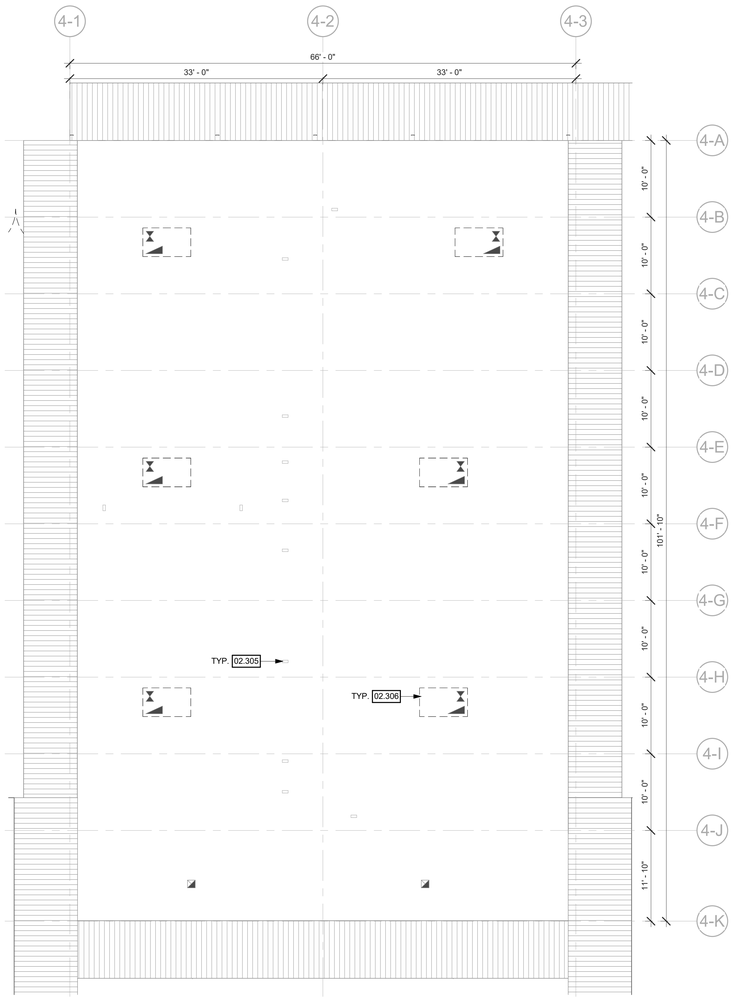
SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

SHEET

NEW FLOOR PLANS - BLDGS 100, 200, 500, 600, & 700

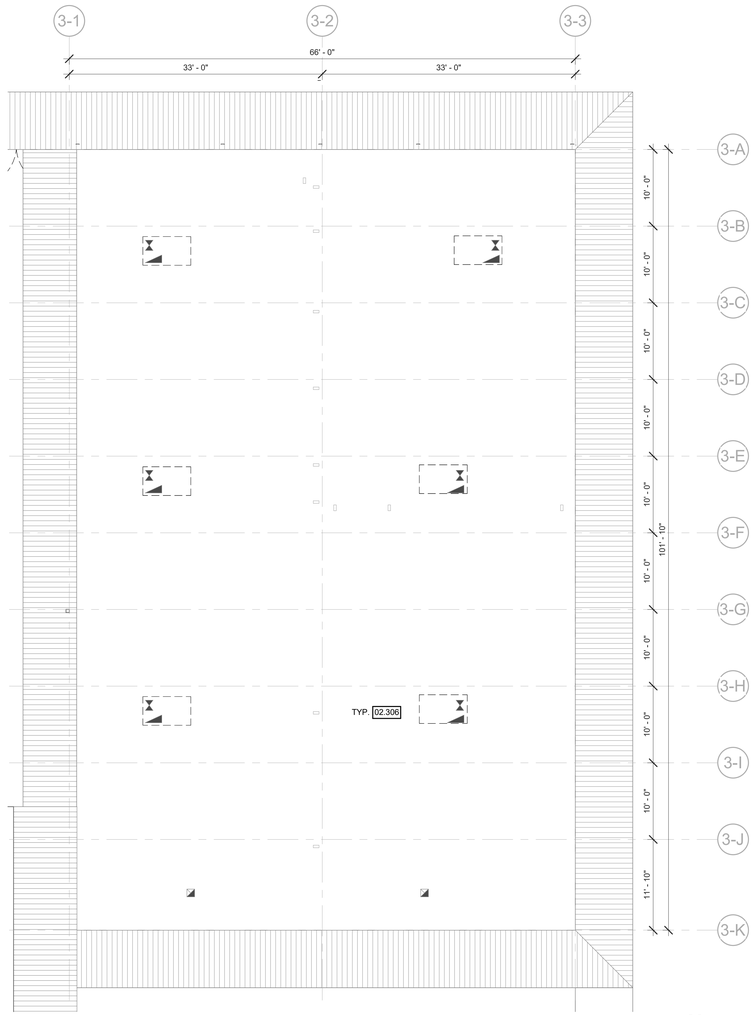
DATE 12.29.2025
JOB # 2025014
SHEET # A3.02

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2 DEMOLITION ROOF PLAN - BLDG 400

SCALE: 1/8" = 1'-0"



1 DEMOLITION ROOF PLAN - BLDG 300

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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G REFER TO TYPICAL SADDLE FLASHING DETAILS WHERE 2 EXTERIOR WALLS OF DIFFERENT HEIGHTS INTERSECT.

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DEMOLITION ROOF PLAN KEYNOTES

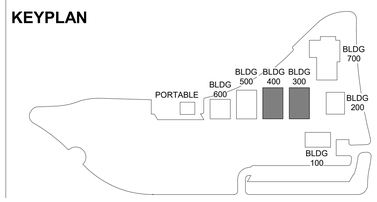
02.305 (E) REMOVE (E) PIPE SUPPORTS. S.P.D.
02.306 (E) REMOVE (E) ROOFTOP UNIT, S.M.D.

GRAPHIC KEY - ROOF PLAN

(E) METAL DECK ROOF

(E) TPO ROOFING

KEYPLAN



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CONSULTANT

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LICENSED ARCHITECT JOSEPH C. DITTERSWORTH NO. C-25840 STATE OF CALIFORNIA REN: 07-31-27

STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

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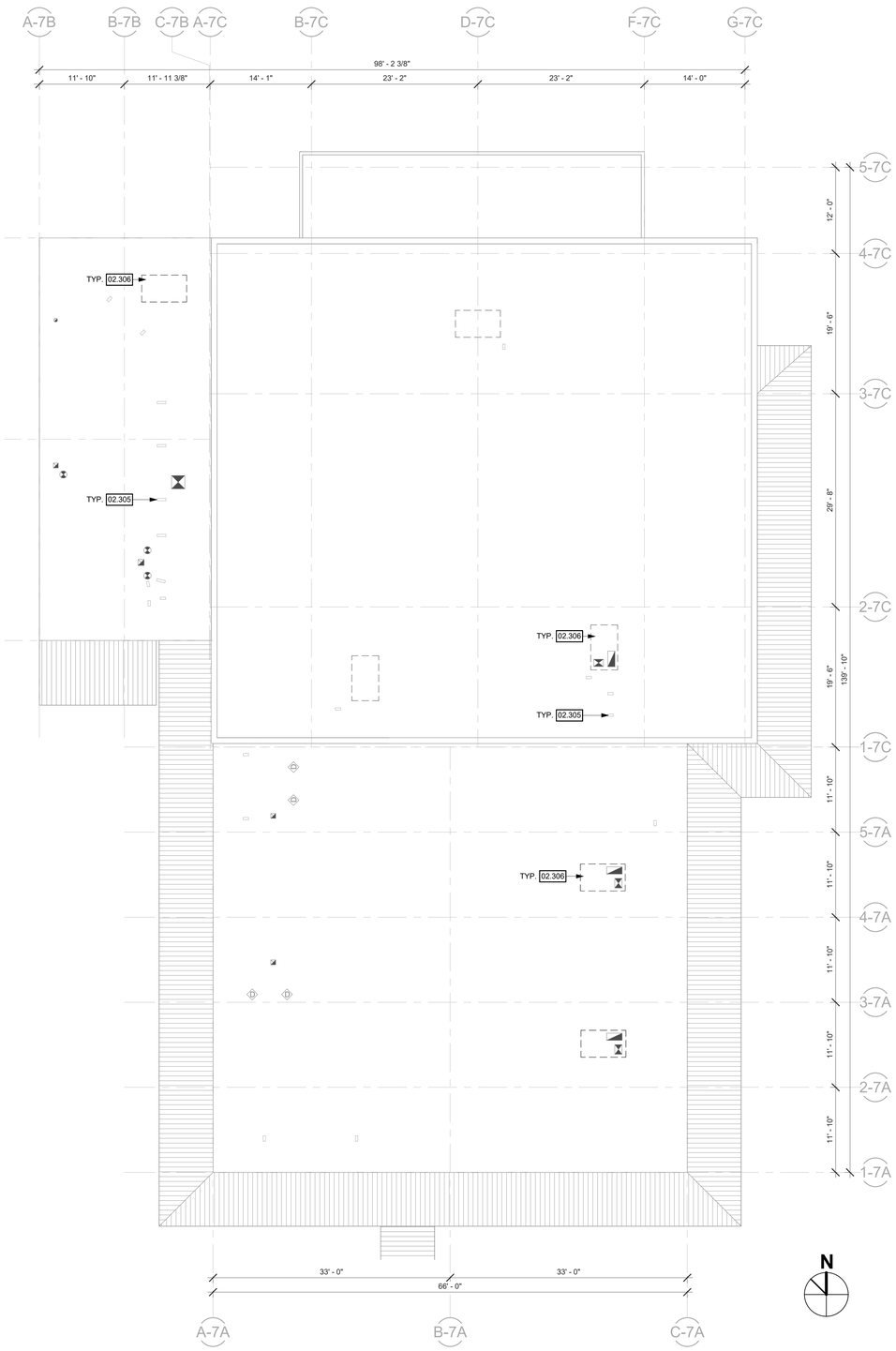
DEMOLITION ROOF PLAN - BLDGS. 300 & 400

DATE 12.29.2025

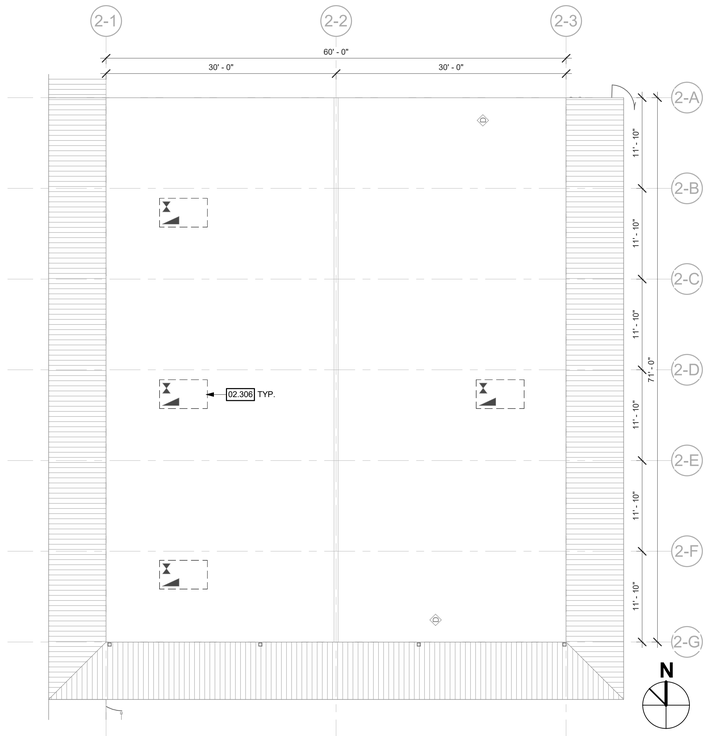
JOB # 2025014

SHEET # A5.01

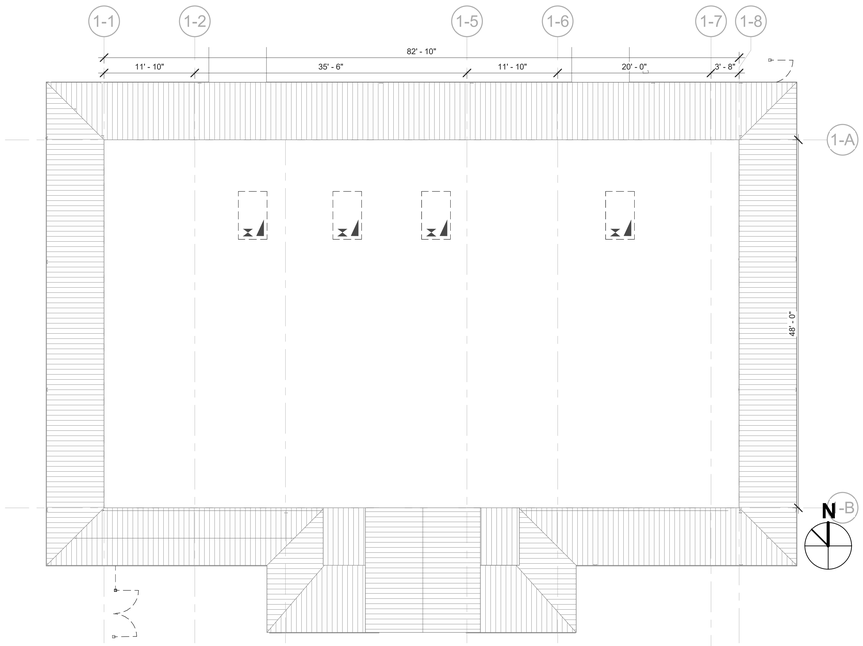
12/29/2025 11:29:56 PM



3 **DEMOLITION ROOF PLAN - BLDG 700**
SCALE: 1/8" = 1'-0"



2 **DEMOLITION ROOF PLAN - BLDG 200**
SCALE: 1/8" = 1'-0"



1 **DEMOLITION ROOF PLAN - BLDG 100**
SCALE: 1/8" = 1'-0"

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DEMOLITION ROOF PLAN KEYNOTES

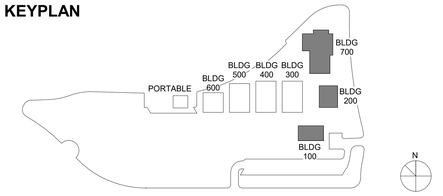
02.305 (E) REMOVE (E) PIPE SUPPORTS. S.P.D.
02.306 (E) REMOVE (E) ROOFTOP UNIT, S.M.D.

GRAPHIC KEY - ROOF PLAN

(E) METAL DECK ROOF

(E) TPO ROOFING

KEYPLAN



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OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JAMES S. PITTENGER NO. C-25840 REN. 08.31.2027 STATE OF CALIFORNIA

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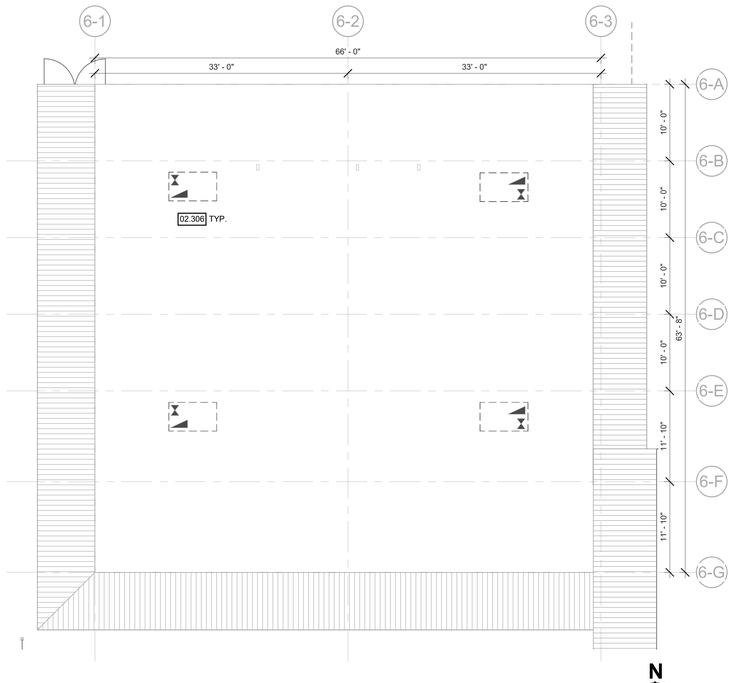
MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

SHEET
DEMOLITION ROOF PLAN - BLDGS. 100, 200, & 700

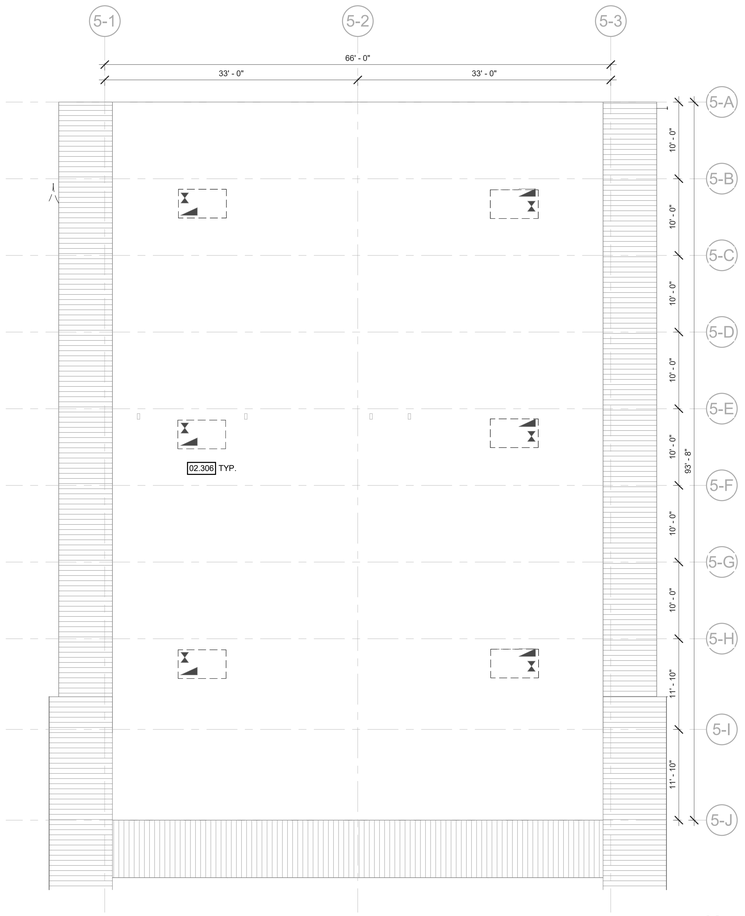
DATE 12.29.2025
JOB # 2025014
SHEET # A5.02

12/29/2025 11:29:58 PM



2 DEMOLITION ROOF PLAN - BLDG 600

SCALE: 1/8" = 1'-0"



1 DEMOLITION ROOF PLAN - BLDG 500

SCALE: 1/8" = 1'-0"

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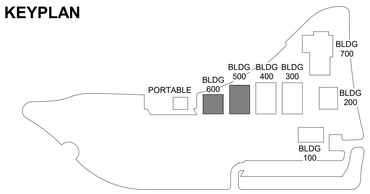
02.306 (E) REMOVE (E) ROOFTOP UNIT, S.M.D.

GRAPHIC KEY - ROOF PLAN

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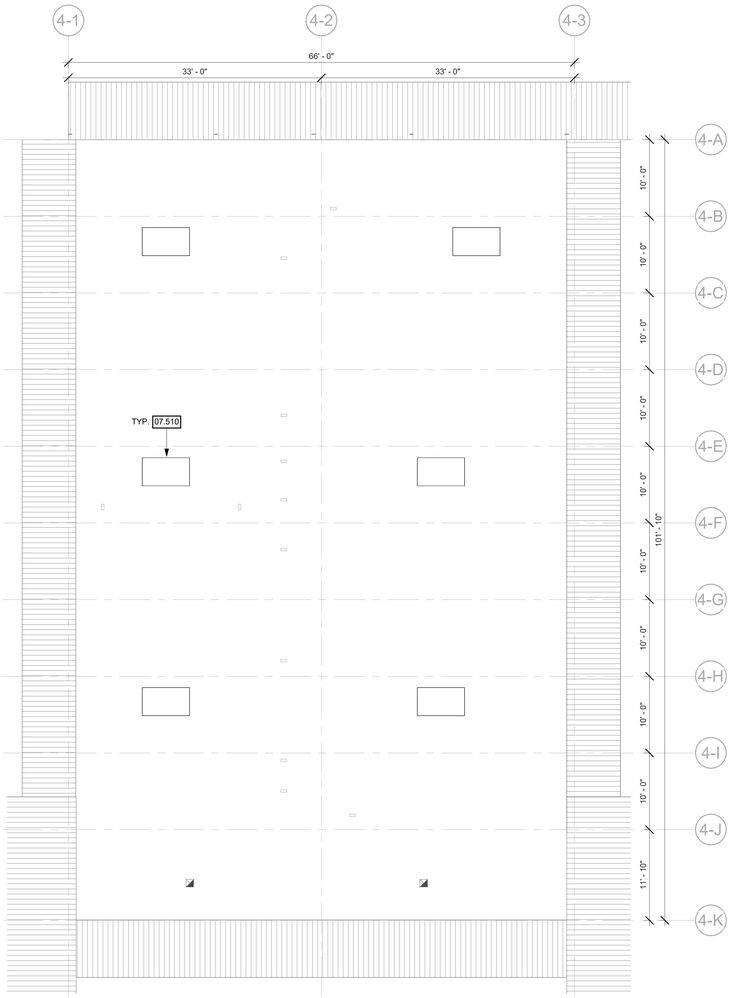
DEMOLITION ROOF PLAN - BLDGS. 500 & 600

DATE 12.29.2025

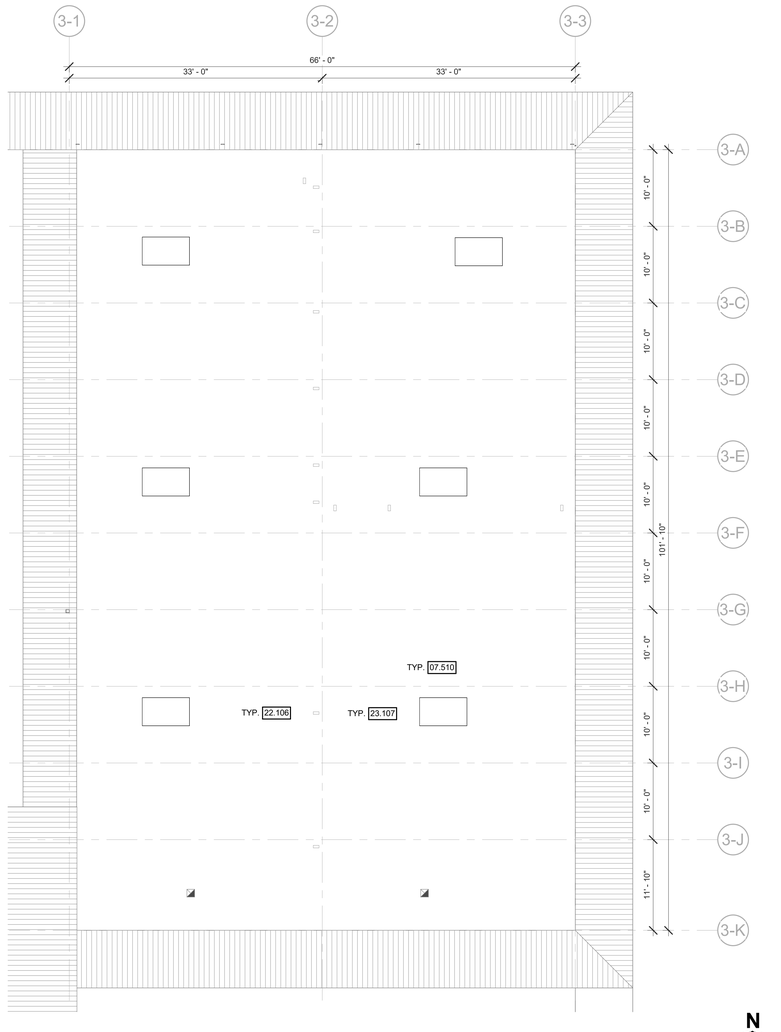
JOB # 2025014

SHEET # A5.03

12/29/2025 11:29:59 PM



2 NEW ROOF PLAN - BLDG 400
SCALE: 1/8" = 1'-0"



1 NEW ROOF PLAN - BLDG 300
SCALE: 1/8" = 1'-0"

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ROOF PLAN KEYNOTES

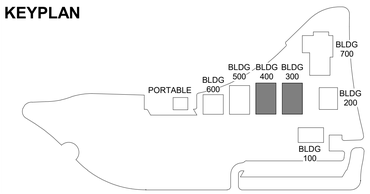
07.510 PATCH ROOFING AT CURBS AS NEEDED TO MAINTAIN WATERPROOFING TO MATCH (E) CONDITION.
22.106 PIPE SUPPORTS ALONG FULL LENGTH OF (E) PIPE, S.P.D. FOR EXTENTS
23.107 ROOFTOP UNIT, S.M.D.

GRAPHIC KEY - ROOF PLAN

(E) METAL DECK ROOF

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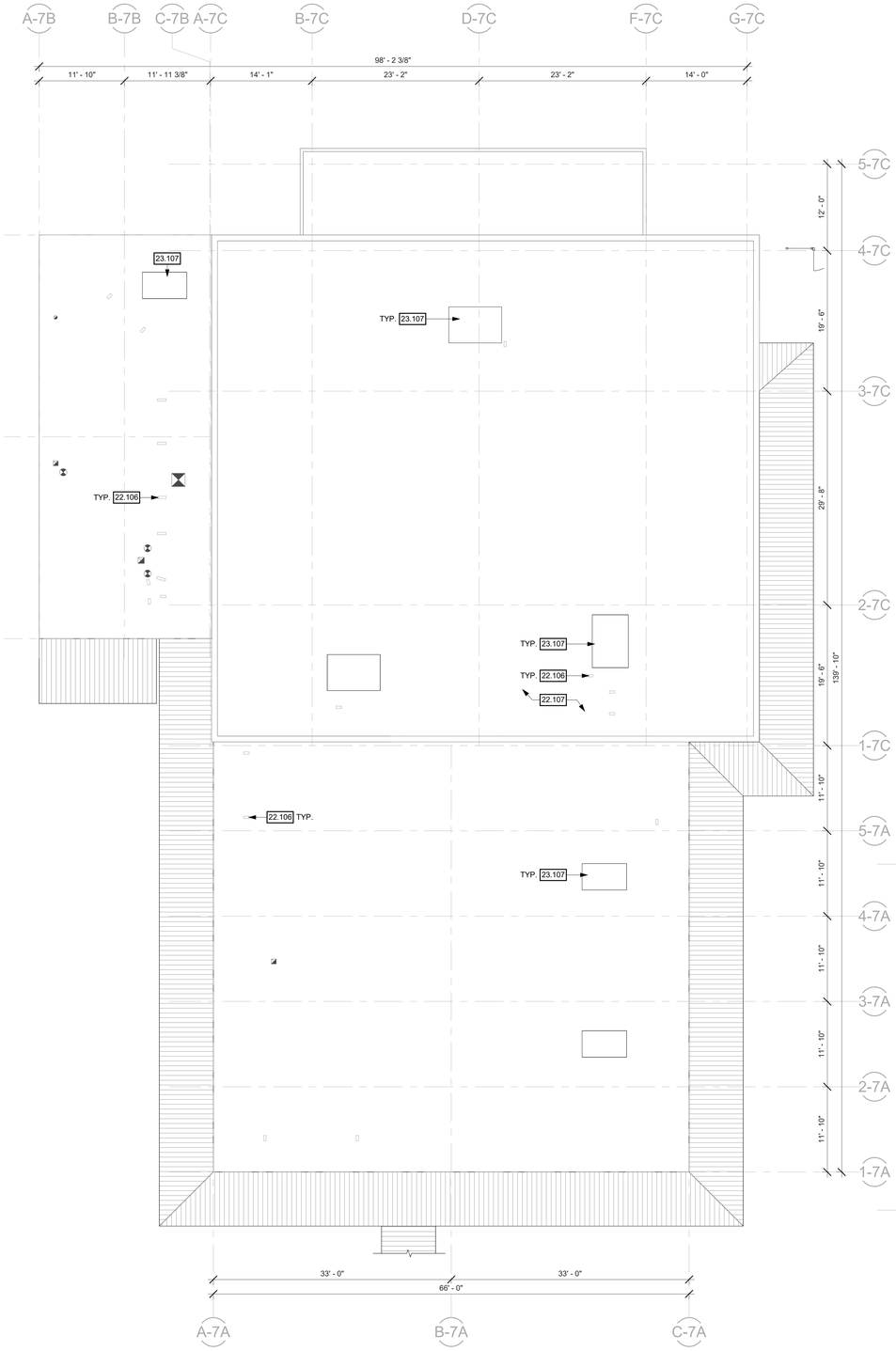
NEW ROOF PLAN - BLDGS. 300 & 400

DATE 12.29.2025

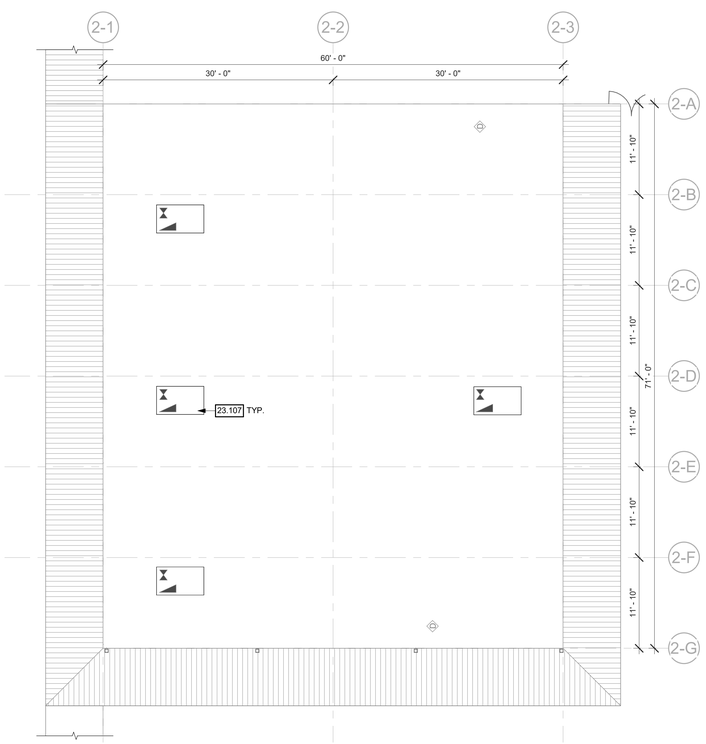
JOB # 2025014

SHEET # A5.04

12/29/2025 11:30:00 PM



3 **NEW ROOF PLAN - BLDG 700**
SCALE: 1/8" = 1'-0"



2 **NEW ROOF PLAN - BLDG 200**
SCALE: 1/8" = 1'-0"

1 **NEW ROOF PLAN - BLDG 100**
SCALE: 1/8" = 1'-0"

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J AT ALL SINGLE PLY ROOFING, WALKWAY ROLL SHALL BE PROVIDED FROM ACCESS HATCHES TO AREAS REQUIRING MAINTENANCE (HVAC EQUPMENT, VENTS, PIPES, ETC.) VERIFY WITH ARCHITECT

ROOF PLAN KEYNOTES

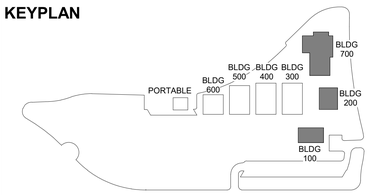
22.106 PIPE SUPPORTS ALONG FULL LENGTH OF (E) PIPE, S.P.D. FOR EXTENTS
22.107 PAINT ALL (E) PIPING
23.107 ROOFTOP UNIT, S.M.D.

GRAPHIC KEY - ROOF PLAN

(E) METAL DECK ROOF

(E) TPO ROOFING

KEYPLAN



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PROJECT
LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JOHN C. DITTENHAFER NO. C-25840 REN. 07-31-27 STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date

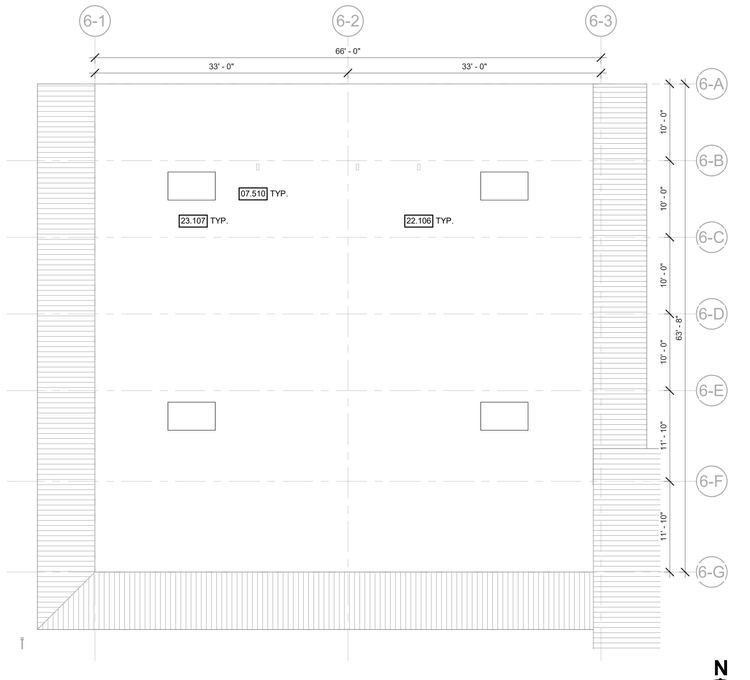
MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

SHEET
NEW ROOF PLAN - BLDGS. 100, 200, & 700

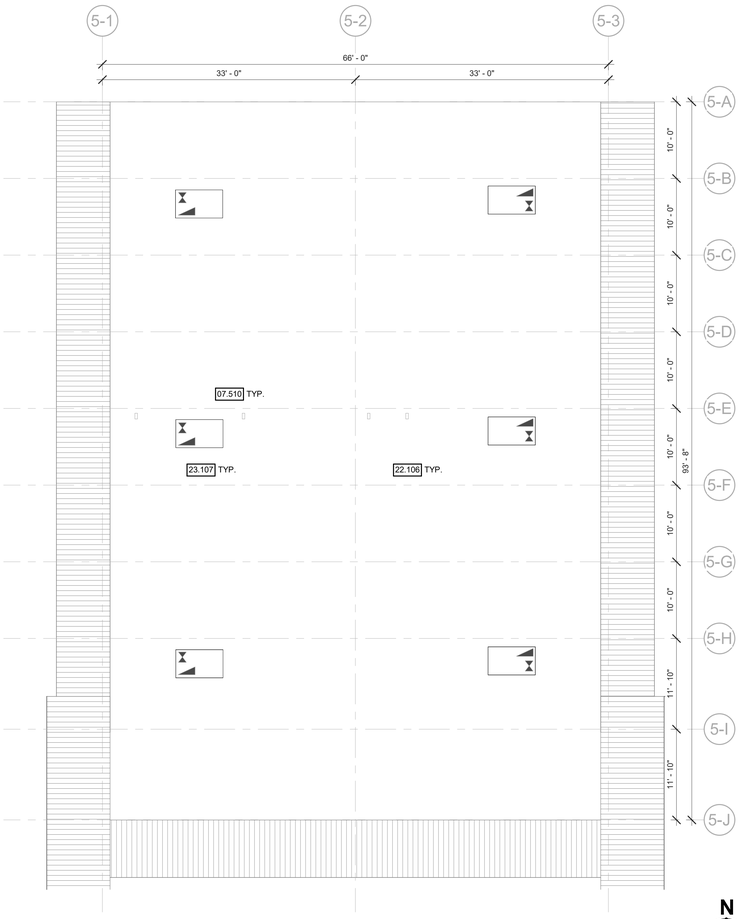
DATE 12.29.2025
JOB # 2025014
SHEET # A5.05

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2 NEW ROOF PLAN - BLDG 600

SCALE: 1/8" = 1'-0"



1 NEW ROOF PLAN - BLDG 500

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK.

B ALL EXPOSED SHEET METAL SHALL BE KYNAR COATED ALUMINUM OR STAINLESS STEEL.

C ALL TAPERED CRICKETS TO BE NEW.

D PROVIDE TAPERED INSULATION (TO COMPLY W/ FLAME SPREAD AND SMOKE DENSITY REQUIREMENTS OF CBC 707.3) TO SLOPE TO DRAIN.

E SIZE OF MECHANICAL EQUIPMENT PADS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY REQUIRED PAD DIMENSION WITH EQUIPMENT MANUFACTURER.

F ROOF CRICKETS, WHERE INDICATED, SHALL BE PROVIDED AS REQUIRED TO ENSURE A MINIMUM 1/4" PER FOOT VALLEY SLOPE. COORDINATE LOCATIONS OF CRICKETS WITH ROOFTOP EQUIPMENT.

G REFER TO TYPICAL SADDLE FLASHING DETAILS WHERE 2 EXTERIOR WALLS OF DIFFERENT HEIGHTS INTERSECT.

H DRAFT STOPS SHALL BE INSTALLED IN THE ATTICS, OVERHANGS AND OTHER CONCEALED SPACES PER CBC 717.4.3.

I ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

J AT ALL SINGLE PLY ROOFING, WALKWAY ROLL SHALL BE PROVIDED FROM ACCESS HATCHES TO AREAS REQUIRING MAINTENANCE (HVAC EQUPMENT, VENTS, PIPES, ETC.) VERIFY WITH ARCHITECT

ROOF PLAN KEYNOTES

07.510 PATCH ROOFING AT CURBS AS NEEDED TO MAINTAIN WATERPROOFING TO MATCH (E) CONDITION.

22.106 PIPE SUPPORTS ALONG FULL LENGTH OF (E) PIPE, S.P.D. FOR EXTENTS

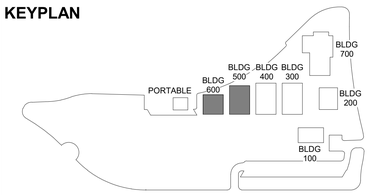
23.107 ROOFTOP UNIT, S.M.D.

GRAPHIC KEY - ROOF PLAN

(E) METAL DECK ROOF

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LICENSED ARCHITECT — NO. C-25840 — STATE OF CALIFORNIA

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MILESTONES

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SHEET

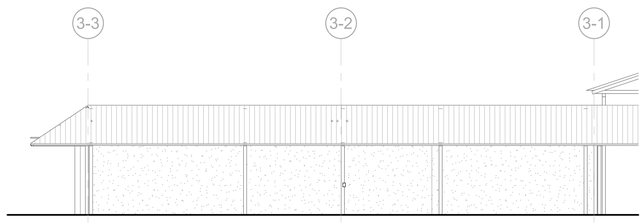
NEW ROOF PLAN - BLDGS. 500 & 600

DATE 12.29.2025

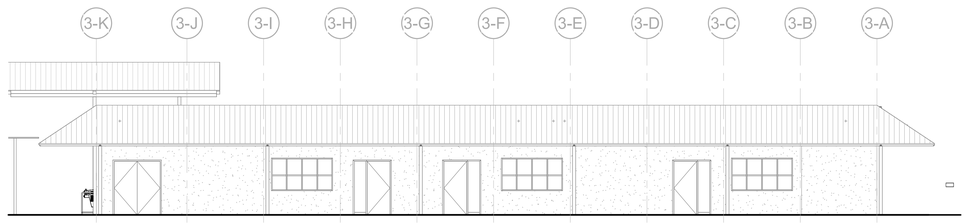
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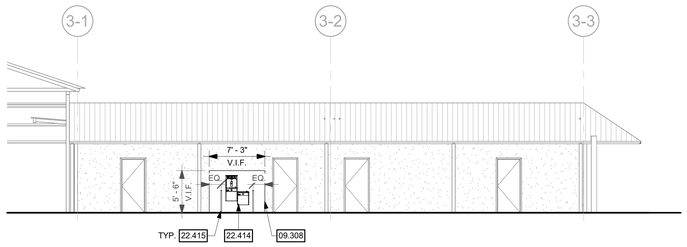
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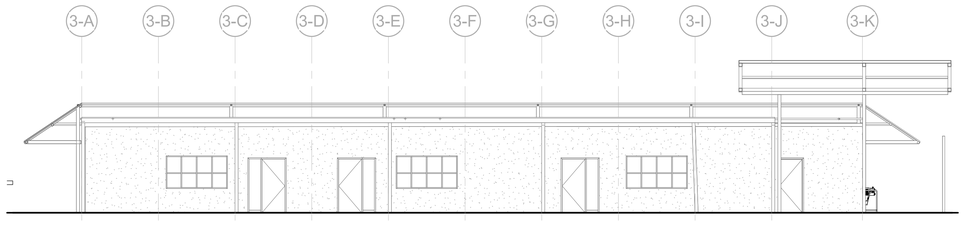
1 BLDG 300 - NORTH EXT. ELEVATION
SCALE: 1/8" = 1'-0"



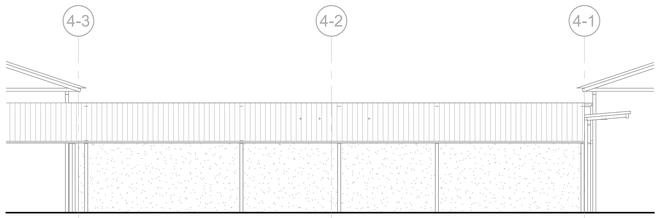
2 BLDG 300 - EAST EXT. ELEVATION
SCALE: 1/8" = 1'-0"



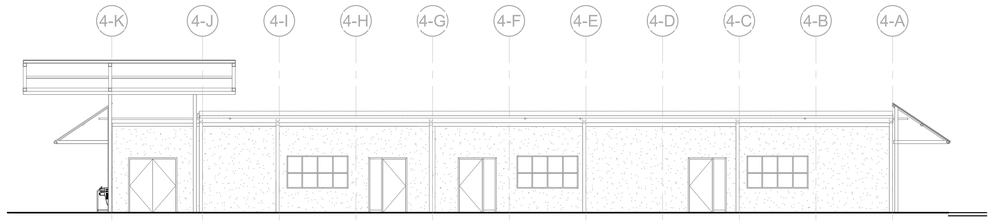
3 BLDG 300 - SOUTH EXT. ELEVATION
SCALE: 1/8" = 1'-0"



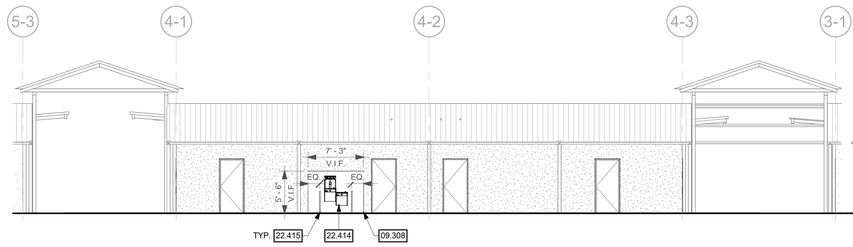
4 BLDG 300 - WEST EXT. ELEVATION
SCALE: 1/8" = 1'-0"



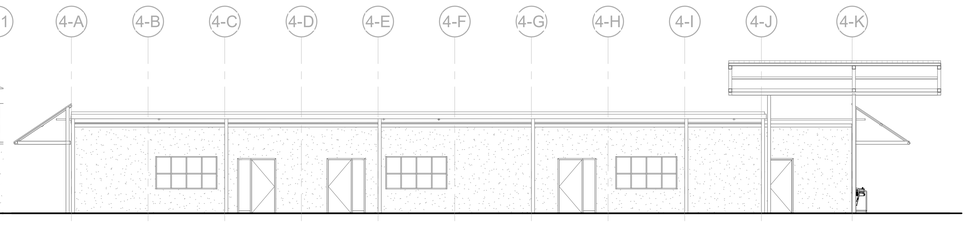
5 BLDG 400 - NORTH EXT. ELEVATION
SCALE: 1/8" = 1'-0"



6 BLDG 400 - EAST EXT. ELEVATION
SCALE: 1/8" = 1'-0"



7 BLDG 400 - SOUTH EXT. ELEVATION
SCALE: 1/8" = 1'-0"



8 BLDG 400 - WEST EXT. ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

B EXTERIOR WALL MOUNTED LIGHT FIXTURES MOUNTING HEIGHT TO MATCH EXISTING - V.I.F. 92" ABOVE FINISH GRADE.

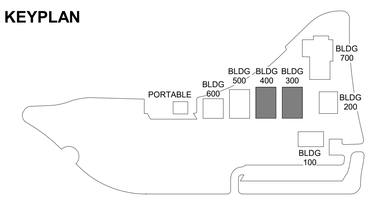
C SEE PLANS AND DOOR SCHEDULE FOR SIGNAGE.

D PATCH AND PAINT ALL SURFACES AFFECTED BY WORK

EXTERIOR ELEVATION KEYNOTES

09.308 EXTERIOR FRP WALL FINISH
22.414 D.A. HI-LO DRINKING FOUNTAIN, S.P.D. AND DETAIL 12 / A8.10
22.415 ALCOVE RAIL, SEE DETAILS 12 / A8.10 AND

KEYPLAN



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PROJECT

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CONSULTANT

STAMP

LICENSED ARCHITECT JOSEPH C. DITTENHAFER NO. C-25840 EXP. 07/31/27 STATE OF CALIFORNIA

STATE

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APPL #	01-122831

REVISIONS

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DSA SUB	12.29.2025

SHEET

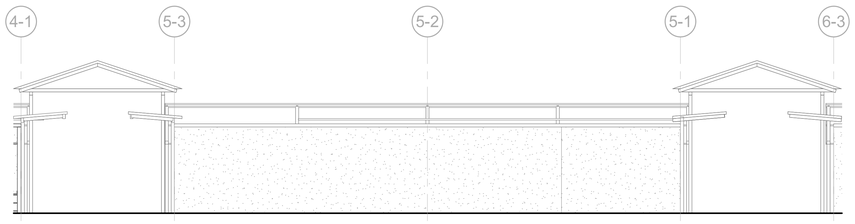
EXTERIOR ELEVATIONS

DATE 12.29.2025

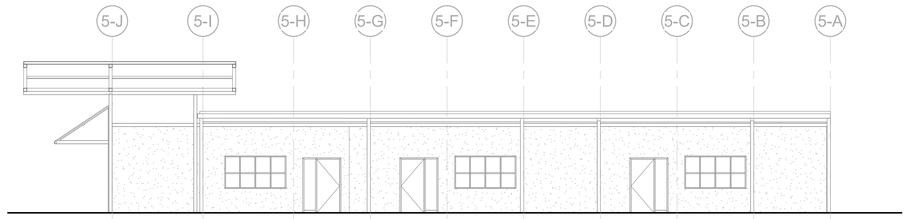
JOB # 2025014

SHEET # A6.01

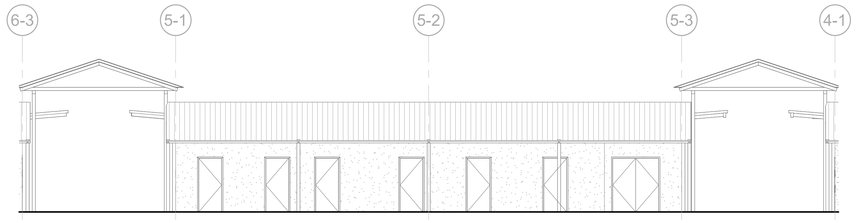
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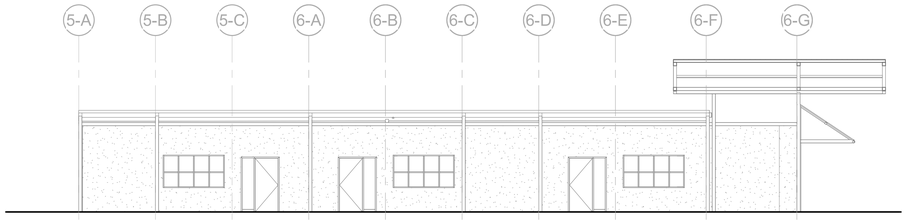
1 **BLDG 500 - NORTH EXT. ELEVATION**
SCALE: 1/8" = 1'-0"



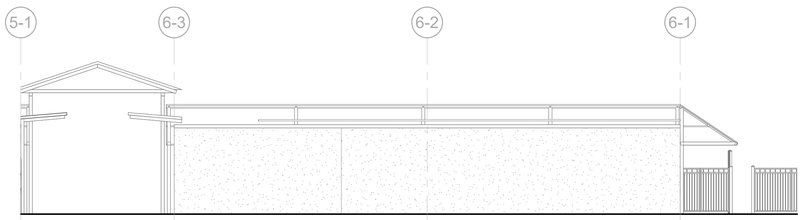
2 **BLDG 500 - EAST EXT. ELELVATION**
SCALE: 1/8" = 1'-0"



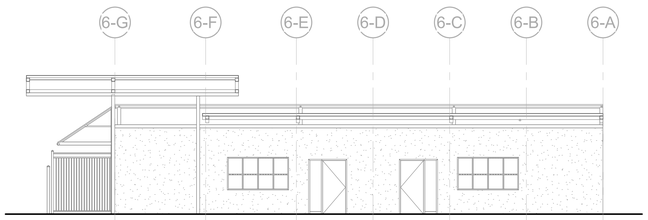
3 **BLDG 500 - SOUTH EXT. ELEVATION**
SCALE: 1/8" = 1'-0"



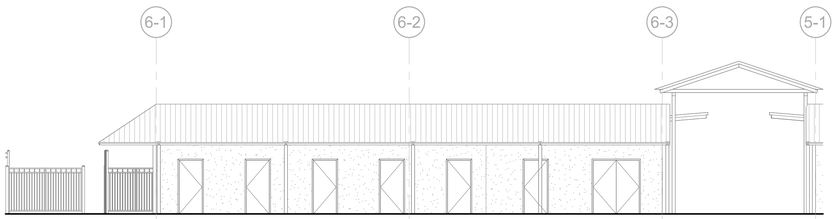
4 **BLDG 500 - WEST EXT. ELELVATION**
SCALE: 1/8" = 1'-0"



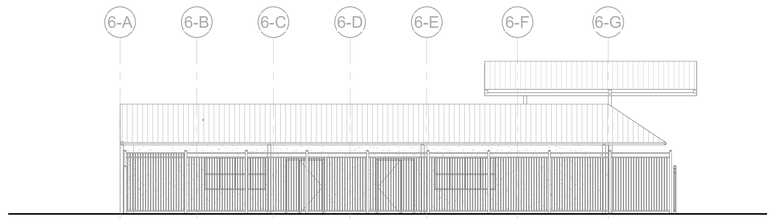
5 **BLDG 600 - NORTH EXT. ELEVATION**
SCALE: 1/8" = 1'-0"



6 **BLDG 600 - EAST EXT. ELELVATION**
SCALE: 1/8" = 1'-0"



7 **BLDG 600 - SOUTH EXT. ELEVATION**
SCALE: 1/8" = 1'-0"



8 **BLDG 600 - WEST EXT. ELELVATION**
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

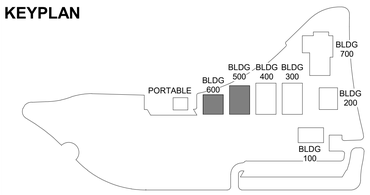
B EXTERIOR WALL MOUNTED LIGHT FIXTURES MOUNTING HEIGHT TO MATCH EXISTING - V.I.F. 92" ABOVE FINISH GRADE.

C SEE PLANS AND DOOR SCHEDULE FOR SIGNAGE.

D PATCH AND PAINT ALL SURFACES AFFECTED BY WORK

EXTERIOR ELEVATION KEYNOTES

KEYPLAN



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PROJECT

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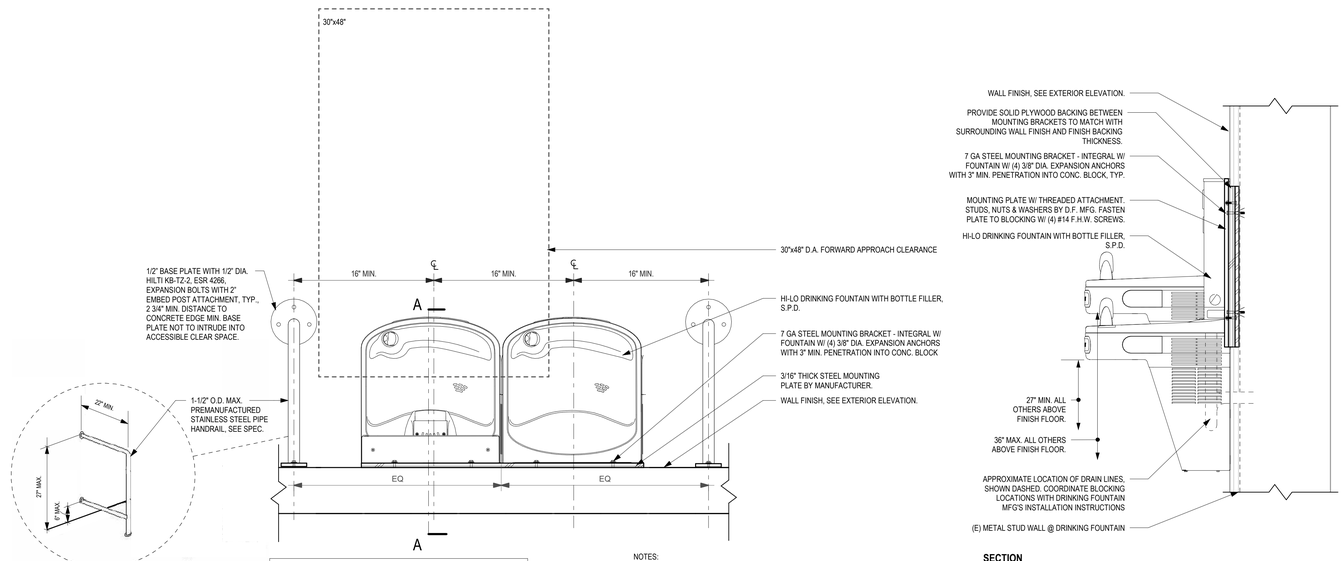
EXTERIOR ELEVATIONS

DATE 12.29.2025

JOB # 2025014

SHEET # A6.02

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SECTION

DISABLED ACCESSIBILTY MOUNTING HEIGHTS

E = ELEMENTARY DIMENSIONS

DIMENSION	E (inches)
Drinking Fountain Bubbler Height	32 max.
Drinking Fountain Knee Clearance	24 min.

NOTES:

1. INSTALL D.F. PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

2. EXPANSION ANCHORS SHALL BE WEDGE-TYPE ANCHORS ONLY AND SHALL HAVE ICC-ES APPROVAL, INCLUDING APPROVAL FOR RESISTANCE TO SEISMIC AND WIND LOADS, PASSING ICC-ES CRITERIA AC01. USE ONLY ONE OF THE FOLLOWING ICC-ES APPROVED SYSTEMS IN CONCRETE MASONRY:
   A. HILTI KWIK BOLT 3 (ESR-1385)
   B. SIMPSON WEDGE-ALL ANCHORS (ESR-1396)
   C. POWERS POWER-STUD+ SD1 (ESR-2966)

3. HOLES SHALL BE DRILLED AND CLEANED, AND ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

4. PRIOR TO DRILLING HOLES FOR ANY EXPANSION ANCHORS INTO CONCRETE OR MASONRY, ALL REINFORCING BARS IN AREA OF NEW ANCHORAGE HOLES SHALL BE LOCATED WITH PACHOMETER OR OTHER SUITABLE DEVICE AND CLEARLY MARKED IN THE FIELD. NEW EXPANSION ANCHORS SHALL BE INSTALLED NOT LESS THAN 1" CLEAR FROM REINFORCING. WHERE REINFORCING BARS CANNOT BE LOCATED, CARE SHALL BE TAKEN WHILE DRILLING HOLES SO THAT REINFORCING BARS ARE NOT CUT OR DAMAGED AND HOLES SHALL BE REPAIRED & RELOCATED AS REQUIRED.

5. INSTALLATION OF EXPANSION ANCHORS REQUIRES SPECIAL INSPECTION. TESTING OF ANCHORS IS NOT REQUIRED.

(12) HI-LO DRINKING FOUNTAIN W/ BOTTLE FILLING STATION

SCALE: 1 1/2" = 1'-0"

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EXTERIOR DETAILS

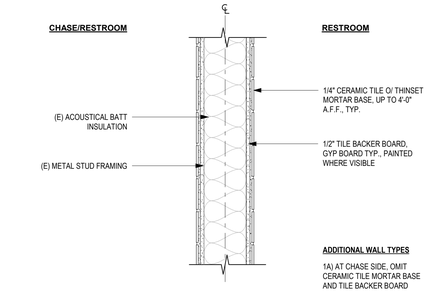
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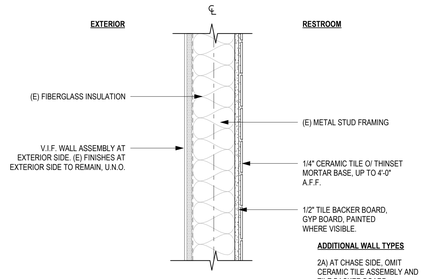
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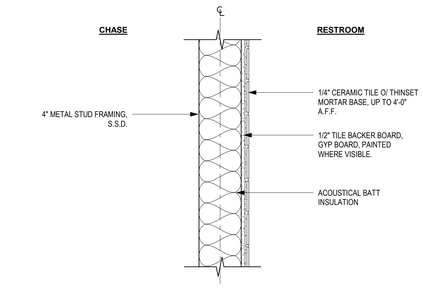
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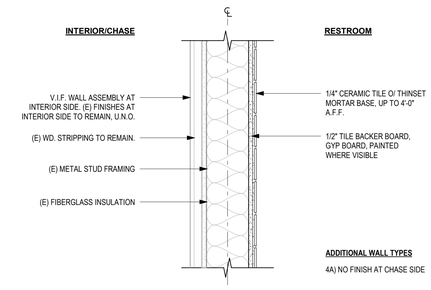
1 WALL TYPE 1
SCALE: 1 1/2" = 1'-0"



2 WALL TYPE 2
SCALE: 1 1/2" = 1'-0"



3 WALL TYPE 3
SCALE: 1 1/2" = 1'-0"



4 WALL TYPE 4
SCALE: 1 1/2" = 1'-0"

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SHEET

WALL TYPES

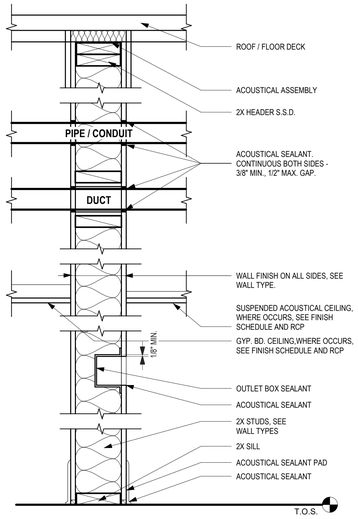
DATE 12.29.2025

JOB # 2025014

SHEET #

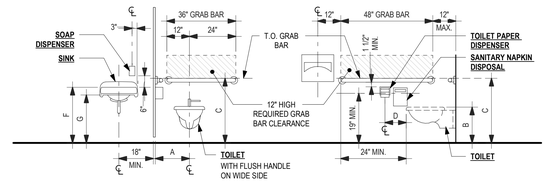
A9.01

12/29/2025 11:30:13 PM



NOTES:
1. FOR RECESSED ACCESSORIES OR CABINETS, PROVIDE BLOCKING, GYPSUM BOARD AND ACOUSTICAL SEALANT SIMILAR TO DETAIL AT DUCT.
2. SEE DETAIL 8/A9.08 FOR PENETRATIONS AT NON RATED PARTITIONS.
3. SEE DETAIL 13/A9.08 FOR PENETRATION SUPPORTS AT SOUND RATED CONSTRUCTION.

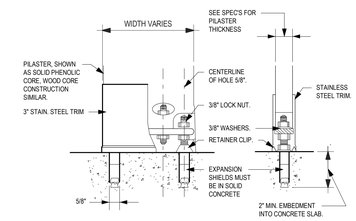
6 TYPICAL SOUND TREATED WALL
SCALE: 1 1/2" = 1'-0"



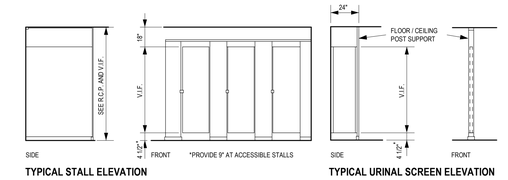
MOUNTING HEIGHTS			
DIM.	DESCRIPTION	ELEM. (INCHES)	D.A. ADULT 2 (INCHES)
A	TOILET CENTERING FROM WALL	15	17-18
B	TOILET SEAT HEIGHT	15	17-19
C	GRAB BAR HEIGHT	27	33-36
	TOILET PAPER OUTLET HEIGHT AFF	19	19
D	TOILET PAPER IN FRONT OF TOILET	7-9	7-9
E	DISPENSER/ MIRROR HEIGHT/ SHELF	36	40 MAX.
F	LAVATORY/SINK TOP HEIGHT	29	34 MAX.
G	LAVATORY/SINK KNEE CLEARANCE	24	27 MIN.
H	URINAL LIP HEIGHT	17	17 MAX.
J	URINAL FLUSH HANDLE HEIGHT	-	44 MAX.
	DRINKING FOUNTAIN BUBBLER HEIGHT	38	36 MAX. (ADA APPROVAL)
	DRINKING FOUNTAIN KNEE CLEARANCE	-	27 MIN.

NOTES:
1. FOR MIRRORS NOT MOUNTED ABOVE A LAVATORY, AT LEAST ONE MIRROR IS TO BE MOUNTED @ 35" MAX., PER 2016 CBC SEC 11B-603.3.
2. ADULT DIMENSIONS ARE FOR THOSE ABOVE AGE 12.
3. ROOMS 306, 307, 406 AND 407 ARE ELEMENTARY HEIGHT, BOTH D.A. AND NON-D.A. HEIGHTS. ROOMS 305 AND 405 ARE ADULT D.A. HEIGHT.
4. TOILET SEAT COVER HOLDER AT D.A. STALL SHALL BE MOUNTED ON SIDE WALL

1 TYPICAL FIXTURE MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"

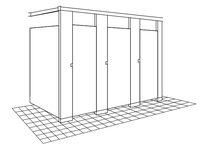


FLOOR ATTACHMENT DETAIL
NOTE: DRILL HOLES FOR FLOOR ATTACHMENT 5/8" FROM EDGE OF PILASTER. TYPICAL FOR ALL LOCATIONS. PLACE STAINLESS STEEL TRIM ON PILASTER, SLIDE UP BEFORE SECURING PILASTER TO FLOOR ATTACHMENT.

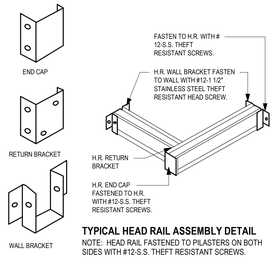


TYPICAL STALL ELEVATION

TYPICAL URINAL SCREEN ELEVATION

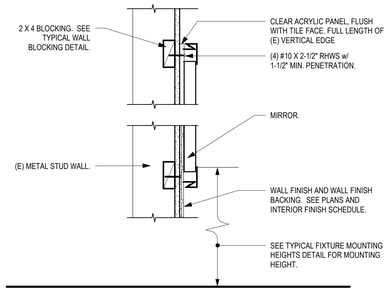


OVERHEAD BRACED



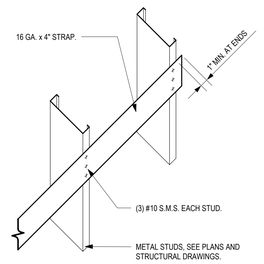
TYPICAL HEAD RAIL ASSEMBLY DETAIL
NOTE: HEAD RAIL FASTENED TO PILASTERS ON BOTH SIDES WITH #12-S.S. THEFT RESISTANT SCREWS.

TYPICAL HORIZONTAL SECTION
NOTE: SEE SPEC'S FOR DOOR PULL REQUIREMENTS.



7 MIRROR MOUNTING (2x STUDS)
SCALE: 1 1/2" = 1'-0"

2 TOILET PARTITION ANCHORAGE DETAILS
SCALE: 1 : 1



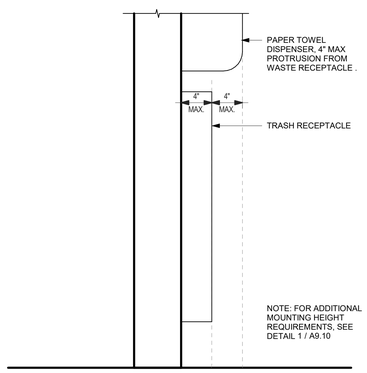
NOTES:

1. USE FOR MISC. ITEMS (E.G. SURFACE MOUNTED MIRROR,WASTE RECEPTACLE, TOWEL DISPENSER, WALL MOUNTED DOOR STOP, ETC.) MAX. WT. 50LB POINT LOAD.

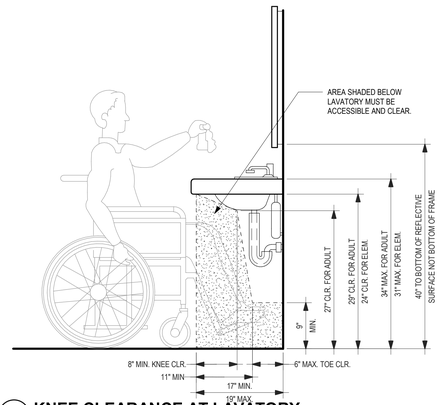
2. VERIFY NUMBER, LENGTH, HEIGHT, AND LOCATION OF BACKING PLATE REQUIRED WITH ACCESSORY MANUFACTURERS.

3. SE #12 SHEET METAL SCREWS MIN. WHEN ATTACHING ITEM TO BACKING.

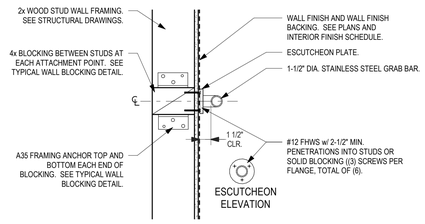
12 TYPICAL WALL BACKING 50LB POINT LOAD
SCALE: 1 1/2" = 1'-0"



8 PAPER TOWEL DISPENSER
SCALE: 1 1/2" = 1'-0"



4 KNEE CLEARANCE AT LAVATORY
SCALE: 1" = 1'-0"



3 GRAB BAR ANCHORAGE (2X STUDS)
SCALE: 1 1/2" = 1'-0"

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PROJECT
LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT — JOHN C. DITTENHAFER — NO. C-25840 — EXP. 07/31/27 — STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

SHEET
INTERIOR DETAILS

DATE 12.29.2025
JOB # 2025014
SHEET # A9.10

12/29/2025 11:30:16 PM

DOOR SCHEDULE

DOOR ID	OPENING SIZE		DOOR		FRAME		DETAILS (SHT. A11.01 U.O.N.)			FIRE RATING (min.)	SIGN		COMMENTS
	WIDTH	HEIGHT	TYPE	FINISH	TYPE	FINISH	HEAD	JAMB	SILL		TYPE	LANGUAGE	
305	3' - 0"	7' - 0"	(E) MTL.	P-2	(E) MTL.	P-2	15	15	16	0	2, 8a	ALL GENDER	
306	3' - 0"	7' - 0"	(E) MTL.	P-2	(E) MTL.	P-2	15	15	16	0	5, 4a	GIRLS	
307	3' - 0"	7' - 0"	(E) MTL.	P-2	(E) MTL.	P-2	15	15	16	0	7, 6a	BOYS	
405	3' - 0"	7' - 0"	(E) MTL.	P-2	(E) MTL.	P-2	15	15	16	0	2, 8a	ALL GENDER	
406	3' - 0"	7' - 0"	(E) MTL.	P-2	(E) MTL.	P-2	15	15	16	0	5, 4a	GIRLS	
407	3' - 0"	7' - 0"	(E) MTL.	P-2	(E) MTL.	P-2	15	15	16	0	7, 6a	BOYS	

DOOR SCHEDULE COMMENTS

1 NONE

DOOR SCHEDULE GENERAL NOTES

1 CONTRACTOR SHALL COORDINATE, PRIOR TO FABRICATION, DOOR FRAME DEPTH TO ACCEPT ALL WALL FINISHES AS DETAILED IN THE DRAWINGS.

2 ALL ROOMS WITH AN OCCUPANCY OF 5 OR MORE PERSONS SHALL BE LOCKABLE FROM THE INSIDE IN COMPLIANCE WITH DSA BULLETIN 11-05, EXCEPTIONS AS NOTED IN THE BULLETIN.

3 FOR SIGN TYPES, REFER TO DETAIL 15/A11.10

4 FOR SIGN PLACEMENT, REFER TO TYPICAL DOOR NOTES DETAIL 16/A11.10

5 CONTRACTOR SHALL VERIFY SIGN LANGUAGE WITH DISTRICT PRIOR TO FABRICATION.

6 DOOR AND FRAMES TO BE PAINTED, INSIDE AND OUT.

7 FIRE RATING IS ZERO HOURS UNLESS OTHERWISE NOTED.

8 DOOR HARDWARE INCLUDES CLOSER UNLESS OTHERWISE NOTED.

FINISH LEGEND

MARK	DESCRIPTION	MFR. / BRAND	COLOR / FINISH	COMMENTS
CT-1	3" x 6" CERAMIC TILE	DALTILE	CLASSIC COLOR WHEEL, GLAZED SUEDE GREY 0188	1
CT-2	3" x 6" CERAMIC TILE	DALTILE	CLASSIC COLOR WHEEL, GLAZED DESERT GREY X114	2
CT-3	3" x 6" CERAMIC TILE	DALTILE	CLASSIC COLOR WHEEL, GLAZED	2
CT-4	2" x 2" CERAMIC TILE	DALTILE	KEYSTONES GROUP 1, DESERT GRAY SPECKLE (1) D200	
FRP	FIBERGLASS REINFORCED PLASTIC PANELS			
GB-1	GYPSUM BOARD, PAINTED			
GBE-2	(E) GYPSUM BOARD, PAINTED			3
GR-1	GROUT	CBP PRISM GROUT	SHADOW #644	
P-1	PAINT	SHERWIN WILLIAMS	GREEK VILLA 7042	
P-2	PAINT	SHERWIN WILLIAMS		

FINISH LEGEND COMMENTS

1 SEE DETAILS 3/A11.01 AND 4/A11.01

2 SEE DETAILS 2/A11.01, 3/A11.01, AND 4/A11.01

3 PATCHED WHERE REQUIRED

FINISH SCHEDULE

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
305	ALL GENDER	CT-4	CT-1	GB-1, CT-1, CT-2, CT-3	GBE-1	
306	GIRLS RESTROOM	CT-4	CT-1	GB-1, CT-1, CT-2, CT-3	GBE-1	
307	BOYS RESTROOM	CT-4	CT-1	GB-1, CT-1, CT-2, CT-3	GBE-1	
405	ALL GENDER	CT-4	CT-1	GB-1, CT-1, CT-2, CT-3	GBE-1	
406	GIRLS RESTROOM	CT-4	CT-1	GB-1, CT-1, CT-2, CT-3	GBE-1	
407	BOYS RESTROOM	CT-4	CT-1	GB-1, CT-1, CT-2, CT-3	GBE-1	

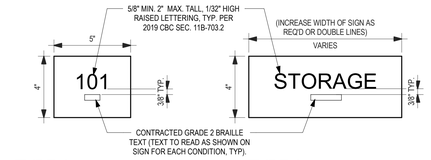
GENERAL FINISH SCHEDULE NOTES

A WHERE MULTIPLE WALL FINISHES ARE CALLED OUT, REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF INDIVIDUAL FINISHES.

B PROVIDE FINISHES TO COMPLY WITH FLAME SPREAD & SMOKE DENSITY REQUIREMENTS OF CBC 803 AND 804.

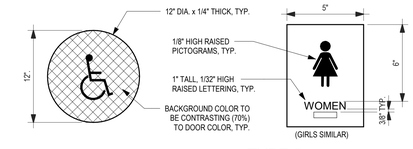
FINISH SCHEDULE COMMENTS

1 NONE



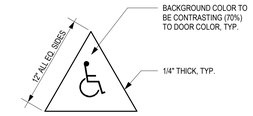
TYPE 1 Scale: 3" = 1'-0"

TYPE 2 Scale: 3" = 1'-0"

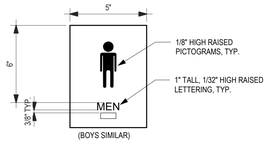


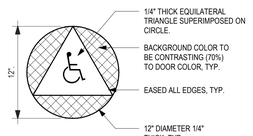
TYPE 4a (WOMEN / GIRLS) Scale: 6" = 1'-0"

TYPE 5 (WOMEN / GIRLS) Scale: 6" = 1'-0"



TYPE 6a (MEN / BOYS) Scale: 6" = 1'-0"



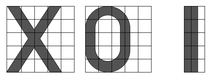


TYPE 7 (MEN / BOYS) Scale: 6" = 1'-0"

TYPE 8a (ALL GENDER) Scale: 6" = 1'-0"

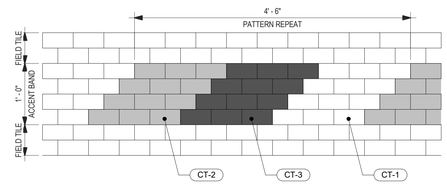
NOTES:
1. SEE TYPICAL DOOR SIGNAGE MOUNTING FOR MORE INFORMATION.
2. ALL ROOM NAMES & CLASSROOM NUMBERS SHALL BE VERIFIED WITH THE OWNER PRIOR TO FABRICATION.
3. ALL FONTS SHALL BE "NEUTRA TEXT DEMI".
4. VERIFY ALL TEXT CONTAINED WITHIN PARENTHESIS WITH ARCHITECT PRIOR TO FABRICATION.
5. ATTACH TO WALL WITH VANDAL RESISTANT SCREWS AND SILICONE. WHEN SIGNAGE IS ON WINDOW, ALIGN ROOM ID SIGN WITH EXIT SIGN OR PROVIDE BLANK SIGNAGE.
6. EDGES SHALL BE EASED OR ROUNDED AT 1/16" MIN., OR CHAMFERED AT 1/8" MAX. VERTICES SHALL BE RADIUSED BETWEEN 1/8" MIN. AND 1/4" MAX.
7. SEE TYPICAL DOOR AND SIGNAGE NOTES

TYPOGRAPHY: CODE COMPLIANCE DIAGRAM

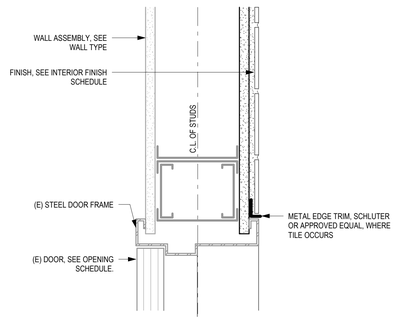


WIDTH TO HEIGHT RATIO MUST BE BETWEEN 3:5 AND 1:1. COMPLIES: "X" AND "O" ARE NOT WIDER THAN 2 INCH SQUARE NOR NARROWER THAN 3:5 RECTANGLE.

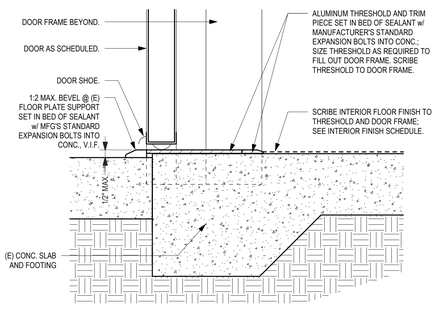
STROKE-WIDTH-TO-HEIGHT RATIO MUST BE BETWEEN 1:5 AND 1:10. COMPLIES: "I" IS NOT WIDER THAN 1:5 INCH RECTANGLE NOR NARROWER THAN 1:10 RECTANGLE.



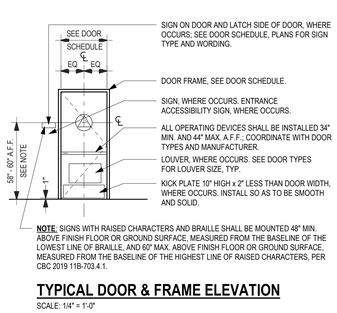
2 ENLARGED TILE PATTERN
SCALE: 1" = 1'-0"



15 STEEL FRAME HEAD AND JAMB
SCALE: 3" = 1'-0"

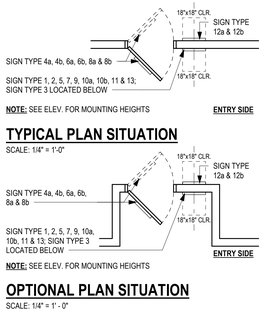


16 DOOR SILL
SCALE: 3" = 1'-0"



NOTE: SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE MOUNTED 48" MIN. ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE, AND 60" MAX. ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS, PER CBC 2019 11B-703.4.1.

TYPICAL DOOR & FRAME ELEVATION
SCALE: 1/4" = 1'-0"



NOTE: SEE ELEV. FOR MOUNTING HEIGHTS

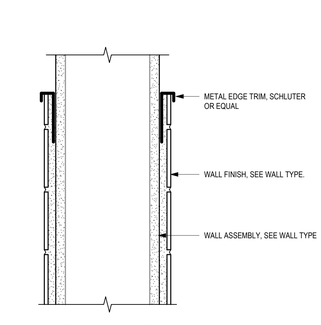
TYPICAL PLAN SITUATION
SCALE: 1/4" = 1'-0"

NOTE: SEE ELEV. FOR MOUNTING HEIGHTS

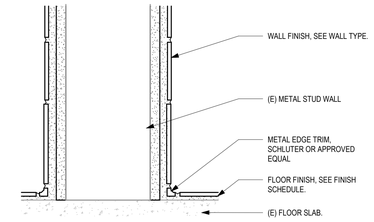
OPTIONAL PLAN SITUATION
SCALE: 1/4" = 1' - 0"

NOTES:
1. PROVIDE TRIANGULAR SIGN (WITH 12" SIDES) AT ALL MEN'S AND BOY'S, AND CIRCULAR SIGN (WITH 12" DIAMETER) AT ALL WOMENS AND GIRL'S TOILET DOORWAYS AND WALL ADJACENT TO LATCH LEADING TO SANITARY FACILITIES PER CBC 2019 SECTION 11B-216.8 & 11B-703.7.2.6, MOUNTED AT 5'-0" TO CENTER OF SIGN TO FINISH FLOOR.
2. ALL RATED DOORS TO BE POSITIVE LATCHING AND SELF CLOSING. ALL DOORS TO COMPLY WITH 2019 CBC, SEC. 716.
3. ALL 20 MINUTE RATED ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP (PER CBC 2019 SEC. 716).
4. ALL DOORS SHALL BE 1-3/4" THICK U.O.N.
5. ALUMINUM EXTERIOR SIGNAGE FRAMES SHALL BE ATTACHED TO SUBSTRATE WITH VANDAL-PROOF FASTENERS WITH EXPANSION SHIELDS. NAME OR ROOM NAME PLATES SHALL BE ATTACHED TO FRAME WITH BRASS SCREWS, AS APPROVED BY ARCHITECT. WHEN SIGNAGE OCCURS ON GLAZING, PROVIDE SIGNAGE WITH GLAZING ADHESIVE AND BLANK SIGNAGE BACKING OTHER SIDE OF GLAZING
6. ALL BRAILLE TEXT SHALL BE CONTRACTED GRADE 2 BRAILLE PER TITLE 24, SECTION 11B-703.3, TYP.
7. ALL SIGNS AND IDENTIFICATION (AT MAIN ENTRANCE, TOILETS, PERMANENT ASSISTIVE LISTENING, ETC.) SHALL COMPLY WITH TITLE 24 , AND CBC SECTIONS 11B-216 AND 11B-703.1 THROUGH 11B-703.7.
8. CONTRACTOR TO VERIFY ALL OPENING DIMENSIONS IN FIELD.

12 TYPICAL DOOR AND SIGNAGE NOTES
SCALE: 1/4" = 1'-0"



3 THIN SET TILE EDGE TRIM
SCALE: 3" = 1'-0"



4 THIN SET TILE WALL BASE
SCALE: 3" = 1'-0"

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PROJECT

LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT — JOSEPH C. DITTEMORE — NO. C-25840 — REN. 07-31-27 — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

SHEET

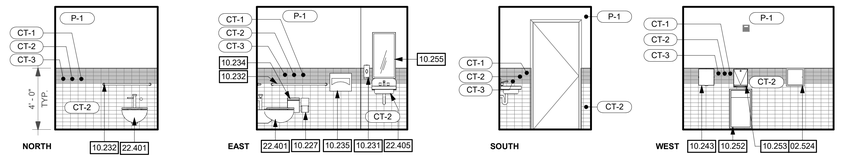
OPENING SCHEDULE, FINISH SCHEDULE, LEGEND & DETAILS

DATE 12.29.2025

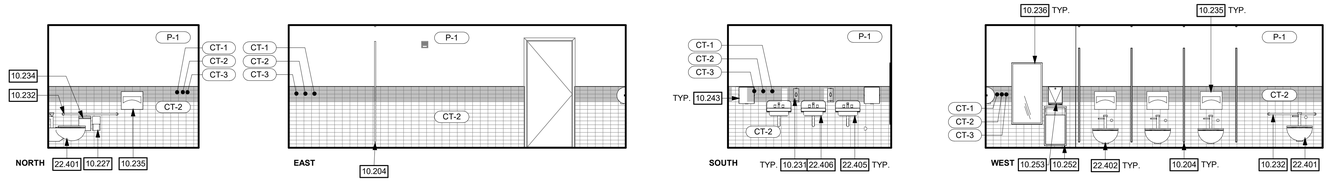
JOB # 2025014

SHEET # A11.01

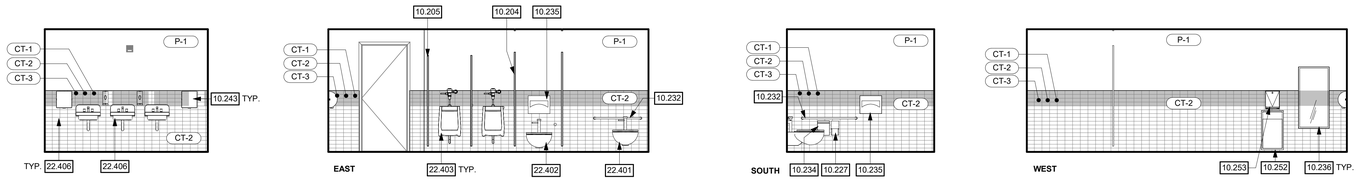
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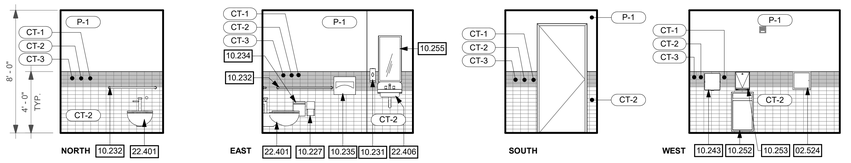
1 RESTROOM 305 - ALL GENDER
SCALE: 1/4" = 1'-0"



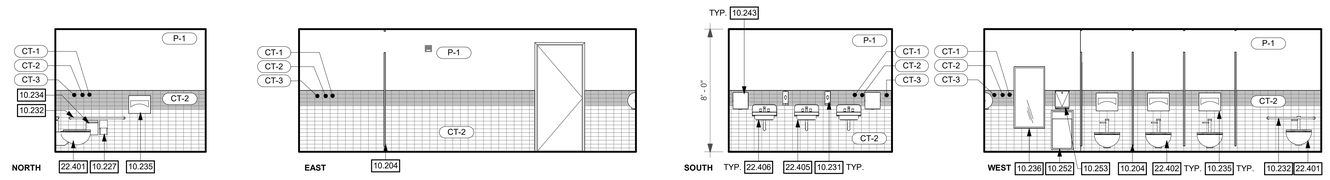
5 RESTROOM 306 - GIRLS
SCALE: 1/4" = 1'-0"



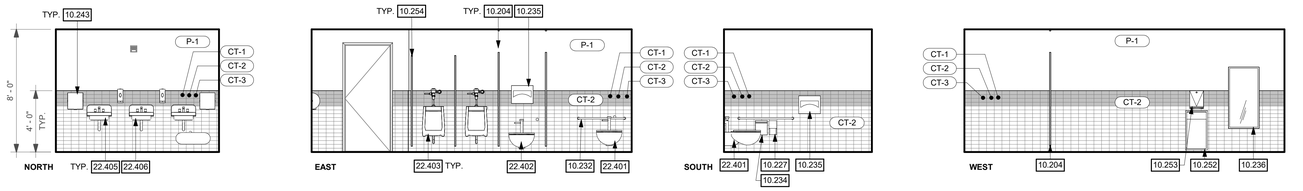
9 RESTROOM 307 - BOYS
SCALE: 1/4" = 1'-0"



14 RESTROOM 405 - ALL GENDER
SCALE: 1/4" = 1'-0"



18 RESTROOM 406 - GIRLS
SCALE: 1/4" = 1'-0"



22 RESTROOM 407 - BOYS
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

A FOR INTERIOR FINISHES NOT SHOWN ON ELEVATIONS REFER TO INTERIOR FINISH SCHEDULE.

B SEE TYPICAL FIXTURE MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHT OF ACCESSORIES.

C ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

D PATCH AND PAINT ALL (E) SURFACES AFFECTED BY WORK.

INTERIOR ELEVATION KEYNOTES

02.524 REMOVE (E) GRAB BAR.
10.204 FLOOR MOUNTED, OVERHEAD BRACED, SOLID COLOR REINFORCED COMPOSITE SUBSTRATE TOILET COMPARTMENT. SEE DETAIL 2 / A9.10
10.205 FLOOR TO CEILING, SOLID COLOR REINFORCED COMPOSITE SUBSTRATE URINAL SCREEN. SEE DETAIL 2 / A9.10
10.227 STAINLESS STEEL RECESSED SINGLE ROLL ADA TOILET TISSUE ROLL DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.231 SURFACE MOUNT SOAP DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.232 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.234 STAINLESS STEEL SURFACE MOUNTED SANITARY NAPKIN DISPOSAL UNIT. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.235 STAINLESS STEEL SURFACE MOUNTED SEAT-COVER DISPENSER. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.236 24" x 48" MIRROR UNIT WITH STAINLESS STEEL ANGLE FRAME. FOR BACKING SEE DETAIL 1 / A9.10
10.243 WARM-AIR DRYER. FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.252 SEMI-RECESSED WASTE RECEPTACLE, FOR MOUNTING HEIGHTS, SEE DETAIL 1 / A9.10
10.253 FOLDED PAPER TOWEL DISPENSER, FOR MOUNTING HEIGHTS SEE DETAIL 1 / A9.10
10.254 URINAL SCREEN, SEE DETAIL 1 / A9.10
10.255 24" X 36" MIRROR UNIT WITH STAINLESS STEEL ANGLE FRAME. FOR MOUNTING HEIGHT SEE DETAIL 1 / A9.10
22.401 D.A. WATER CLOSET, S.P.D. AND SEE DETAIL 1 / A9.10
22.402 WATER CLOSET, S.P.D. AND SEE DETAIL 1 / A9.10
22.403 D.A. URINAL, S.P.D.
22.405 D.A. LAVATORY, S.P.D.
22.406 LAVATORY, S.P.D.

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PROJECT

LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOHN C. DITTENHAFER NO. C-25840 EXP. 07/31/27 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	12.29.2025

SHEET

INTERIOR ELEVATIONS

DATE 12.29.2025
JOB # 2025014
SHEET # A12.01

12/29/2025 11:46:47 PM

I. GENERAL REQUIREMENTS

A. THE STRUCTURAL DRAWINGS AND PROJECT SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE MEANS, METHODS, PROCEDURES AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

B. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL STANDARDS.

C. ALL CONSTRUCTION, TESTING, AND INSPECTIONS SHALL CONFORM TO THE BUILDING CODE REFERENCED UNDER THE HEADING "BASIS OF DESIGN" BELOW.

D. STANDARDS REFERENCED IN THESE DRAWINGS SHALL BE THE LATEST EDITION, UNLESS OTHERWISE NOTED.

E. SEE DRAWINGS OTHER THAN STRUCTURAL FOR: FLOOR FINISHES; DEPRESSIONS IN FLOOR SLABS; OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MEP FEATURES; EXTERIOR PAVING; CURBS; SLOPES; DRAINS; PADS; NON-STRUCTURAL PARTITIONS; EMBEDDED ITEMS; ETC. COORDINATE THESE ITEMS WITH THE STRUCTURAL DRAWINGS.

F. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT.

G. OMISSIONS OR DISCREPANCIES BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.

H. DO NOT SCALE THE DRAWINGS; USE WRITTEN DIMENSIONS ONLY. WHERE NO DIMENSIONS ARE PROVIDED OR WHERE DIMENSIONS PROVIDED CONFLICT WITH OTHER DRAWINGS, CONSULT THE ARCHITECT AND SEOR BEFORE PROCEEDING WITH THE WORK.

I. WHERE MEMBER LOCATIONS ARE NOT DIMENSIONED, MEMBERS SHALL BE LOCATED ON COLUMN LINES OR EQUALLY SPACED BETWEEN MEMBERS ON COLUMN LINES OR BETWEEN MEMBERS OTHERWISE LOCATED. CENTERLINES OF COLUMNS, WALLS, FRAMING MEMBERS, AND FOUNDATIONS COINCIDE WITH GRIDLINES, UNLESS OTHERWISE NOTED.

J. TYPICAL DETAILS ARE INTENDED TO APPLY TO APPLICABLE SITUATIONS, UNLESS OTHERWISE NOTED. TYPICAL DETAILS MAY NOT BE SPECIFICALLY LOCATED.

K. DETAILS SHALL BE APPLIED TO EVERY LIKE CONDITION WHETHER OR NOT THEY ARE REFERENCED IN EVERY INSTANCE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, USE DETAILS SIMILAR TO THOSE PROVIDED.

L. THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE PLACED.

II. EXISTING CONSTRUCTION

A. WORK SHOWN IS NEW UNLESS OTHERWISE NOTED AS EXISTING, (E).

B. EXISTING CONSTRUCTION SHOWN IN THESE DRAWINGS WAS OBTAINED FROM AS-BUILT DRAWINGS AND INDICATED FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, REVIEW ALL AVAILABLE EXISTING DRAWINGS AND VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND SEOR OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.

C. THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING. IF EXISTING STRUCTURAL MEMBERS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE SEOR SHALL BE NOTIFIED IMMEDIATELY. APPROVAL SHALL BE OBTAINED PRIOR TO REMOVAL OF THE EXISTING MEMBERS.

D. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW INSTALLATION OF THE NEW WORK. THE EXISTING CONSTRUCTION SHALL BE CONNECTED AND/OR EMBEDDED INTO THE NEW CONSTRUCTION AS SHOWN OR SPECIFIED.

E. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE SPECIFIED BY A LICENSED CIVIL OR STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA TO BE RETAINED BY THE CONTRACTOR. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.

F. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BEFORE BEGINNING WORK. SPECIAL CARE SHALL BE TAKEN TO PROTECT UTILITIES THAT ARE TO REMAIN IN SERVICE DURING CONSTRUCTION.

G. THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE CAUSED DURING OPERATIONS WITH SIMILAR MATERIALS AND WORKMANSHIP.

H. THE CONTRACTOR SHALL LOCATE EXISTING REINFORCING STEEL WHERE EXISTING CONCRETE IS TO BE CUT, CORED OR SAWN. LOCATION SHALL BE DONE USING A NON-DESTRUCTIVE METHOD. DO NOT DAMAGE EXISTING REINFORCING WITHOUT NOTIFYING THE ARCHITECT AND SEOR.

III. BASIS OF DESIGN

A. THE STRUCTURAL DESIGN OF THIS PROJECT IS GOVERNED BY THE 2022 CALIFORNIA BUILDING CODE (CBC) WITH SS/DSA AMENDMENTS.

B. RISK CATEGORY = III

D. LIVE LOADS:
1. ROOF = 20 PSF

E. WIND DESIGN DATA:
1. BASIC WIND SPEED = 100 mph (3 SECOND GUST)
2. EXPOSURE CATEGORY = C
3. INTERAL PRESSURE COEFFICIENT = +/-0.18
4. EXTERIOR COMPONENT AND CLANDING DESIGN WIND PRESSURE = XXXX PSF (WALL ZONE 5), XXXX PSF (ROOF ZONE 3).

F. SEISMIC DESIGN DATA:
1. I = 1.25
2. Fa = 1.2
3. Fv = N/A
4. Ss = 1.761
5. S1 = 0.665
6. SDS = 1.409
7. SD1 = N/A
8. SITE CLASS = D (DEFAULT)
9. SEISMIC DESIGN CATEGORY = D

IV. STRUCTURAL STEEL

A. STEEL DECK REQUIREMENTS
1. THE STEEL DECK AND ITS ANCHORAGE SHALL BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS" AND WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATIONS FOR DESIGN OF LIGHT GAUGE COLD-FORMED STEEL STRUCTURAL MEMBERS".
2. CONFIGURE ALL STEEL DECK LAYOUTS TO COVER THREE OR MORE CONTINUOUS SPANS WHERE POSSIBLE. SPLICES SHALL BE LOCATED OVER SUPPORTS ONLY.

B. COLD-FORMED STEEL FRAMING
1. ALL COLD-FORMED STEEL FRAMING SHALL CONFORM TO AISI STANDARDS.
2. ALL WELDING OF COLD-FORMED STEEL SHALL BE IN CONFORMANCE WITH AWS D1.3.
3. MATERIALS:
   a. STRUCTURAL STEEL SECTIONS: 54-, 68-, 97-MIL PER ASTM A653 GR D OR ASTM A1011 GR 50; 33- AND 43-MIL PER ASTM A653 GR A OR ASTM A1011 GR 33.
   b. SHEET METAL SCREWS: GRABBER SELF-DRILLING PER ICC ESR-1271 OR ALTERNATE IN ACCORDANCE WITH ASTM C1513 AND APPROVED BY THE SEOR.
   c. ALL PREFABRICATED CLIPS AND OTHER ACCESSORIES SHALL BE MANUFACTURED BY SIMPSON STRONG TIE OR APPROVED EQUAL. SIMPSON DESIGNATIONS USED IN THE DRAWINGS.
4. SEE DRAWINGS OTHER THAN STRUCTURAL FOR FIRE STOPPING, BACKING FOR FINISHES, NON-BEARING WALLS, AND OTHER NON-BEARING FRAMING, UON.
5. SHEAR WALL PANEL SHEATHING SHALL BE 1/2" MIN THICKNESS, MANUFACTURED BY SURE-BOARD PER IAPMO UES-ER-0126.

VIII. POST-INSTALLED ANCHORS

A. POST-INSTALLED ANCHORS INCLUDE EXPANSION ANCHORS, EPOXY ANCHORS AND REINFORCING STEEL DOWELS, SCREW ANCHORS AND POWDER-ACTUATED FASTENERS. AS DETAILED IN THE DRAWINGS.

B. DO NOT DAMAGE OR CUT EXISTING REINFORCING STEEL WHILE INSTALLING POST-INSTALLED ANCHORS. NOTIFY SEOR IF EXISTING REINFORCING STEEL INTERFERES WITH INSTALLATION OF POST-INSTALLED ANCHORS.

C. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL NOT BE USED AND SHALL BE GROUTED SOLID.

D. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE ICC-ES REPORT AND MANUFACTURER'S RECOMMENDATIONS.

E. PROVIDE SPECIAL INSPECTION FOR THE INSTALLATION OF ALL POST-INSTALLED ANCHORS, UNLESS OTHERWISE NOTED.

F. FIELD TEST POST-INSTALLED ANCHORS, UNLESS OTHERWISE NOTED. FIELD TESTING SHALL BE IN COMPLIANCE WITH THE FOLLOWING:
1. 10% OF POST-INSTALLED ANCHORS USED FOR SILL PLATE BOLTING SHALL BE TESTED; 100% OF ALL OTHER POST-INSTALLED ANCHORS USED FOR STRUTURAL APPLICATIONS SHALL BE TESTED.
2. 50% OF POST-INSTALLED ANCHORS USED FOR NON-STRUCTURAL APPLICATIONS SHALL BE TESTED, INCLUDING ONE HALF OF ALL ANCHORS IN EACH GROUP.
   a. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE THAT ARE UNTESTED SHALL BE TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS.
   b. NO TESTING REQUIRED FOR POWDER-ACTUATED FASTENERS USED TO ATTACH TRACKS OF INTERIOR, NON-STRUCTURAL PARTITION WALLS WHERE THERE ARE AT LEAST THREE FASTENERS PER PIECE OF TRACK.
3. NO TESTING REQUIRED OF REINFORCING STEEL DOWELS ACROSS COLD JOINTS IN CONCRETE SLABS ON GRADE.
4. TORQUE TESTING MAY BE USED FOR TORQUE CONTROLLED POST-INSTALLED ANCHORS; TENSION TEST ALL OTHER POST-INSTALLED ANCHORS.
5. TORQUE TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1910A.5.5.2.
6. TENSION TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1910A.5.5.1.
7. ALL FIELD TESTING SHALL BE DONE UNDER THE OBSERVATION OF THE PROJECT INSPECTOR.
8. TESTING SHALL OCCUR AT LEAST 24 HOURS AFTER THE ANCHOR HAS BEEN INSTALLED.

G. EPOXY ANCHORS AND REINFORCING STEEL DOWELS
1. FOR INSTALLATION IN CONCRETE, EPOXY SHALL BE ONE OF THE FOLLOWING:
   a. SET-XP PER ICC-ES ESR-2508 AS MANUFACTURED BY SIMPSON STRONG TIE
   b. HIT-RE 500 V3 PER ICC-ES ESR-3814 AS MANUFACTURED BY HILTI, INC.
   c. HY-200 V3 PER ICC-ES ESR-4868 AS MANUFACTURED BY HILTI, INC.
2. EPOXIED ANCHOR RODS SHALL BE CARBON STEEL THREADED RODS PER APPROPRIATE ICC-ES REPORT; EPOXIED REINFORCING STEEL DOWELS SHALL BE ASTM A615 GR 60 UNLESS OTHERWISE NOTED. MINIMUM ANCHOR EMBEDMENT AND TENSION TEST VALUES ARE AS FOLLOWS:

EPOXY REBARS IN NORMAL-WEIGHT CONCRETE				
REBAR SIZE	EMBED (IN)	TENSION TEST VALUE (LBS)		
		HY-200-V3	HIT-RE 500-V3	SET-XP
#3	3	3159	3931	2570
#4	4	5615	6053	4441
#5	5	8459	8459	6740
#6	6	11119	11119	9419

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE				
THREADED ROD DIAMETER (IN)	EMBED (IN)	TENSION TEST VALUE (LBS)		
		HY-200-V3	HIT-RE 500-V3	SET-XP
3/8	3	3360	3510	3620
1/2	4	6010	6150	5690
5/8	5	9440	9330	7640
3/4	6	11190	12860	9770

ANCHORS SHALL NOT BE INSTALLED INTO CONCRETE THAT IS LESS THAN 21 DAYS OLD.

H. EXPANSION ANCHORS
1. FOR INSTALLATION IN CONCRETE, EXPANSION ANCHORS SHALL BE ONE OF THE FOLLOWING:
   a. STRONG BOLT 2 PER ICC-ES ESR-3037 AS MANUFACTURED BY SIMPSON STRONG TIE.
   b. KWIK BOLT TZ2 PER ICC-ES ESR-4266 AS MANUFACTURED BY HILTI, INC.
2. FOR INSTALLATION IN FULLY-GROUTED CONCRETE MASONRY, EXPANSION ANCHORS SHALL BE ONE OF THE FOLLOWING:
   a. KWIK BOLT KBTZ2 PER ICC-ES ESR-4561 AS MANUFACTURED BY HILTI, INC.
3. USE STAINLESS STEEL AT EXTERIOR, WEATHER-EXPOSED OR DAMP LOCATIONS; CARBON STEEL EXPANSION ANCHORS MAY BE USED AT ALL OTHER LOCATION, UNLESS OTHERWISE NOTED.
4. MINIMUM ANCHOR EMBEDMENT AND TORQUE TEST VALUES ARE AS FOLLOWS:

KWIK BOLT TZ2 IN NORMAL WEIGHT CONCRETE				
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TORQUE TEST VALUES (FT-LBS)	
(IN)		DEPTH (IN)	CARBON STEEL	STAINLESS STEEL
3/8	2 5/16	2 5/8	30	30
1/2	2 3/8	2 5/8	50	40
5/8	4 1/16	4 3/4	40	60
3/4	5 9/16	5 3/4	110	125

STRONG BOLT 2 IN NORMAL WEIGHT CONCRETE				
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TORQUE TEST VALUES (FT-LBS)	
(IN)		DEPTH (IN)	CARBON STEEL	STAINLESS STEEL
3/8	1 7/8	2	30	30
1/2	2 3/4	3	60	65
5/8	5 3/8	5 3/8	90	80
3/4	5 1/4	6	150	150

4. WHERE EXPANSION ANCHORS ARE INSTALLED IN CONTACT WITH WOOD FRAMING, PROVIDE AN OVERSIZE WASHER IN ORDER TO ACHIEVE TORQUE REQUIRED BY ICC-ES REPORT. USE 1/4"x3"x3" WASHER, MINIMUM.
5. CONTRACTOR SHALL PROVIDE ANCHORS WITH SUFFICIENT TOTAL LENGTH FOR THE SPECIFIED EMBEDMENT LENGTH, THICKNESS OF FASTENED PART, WASHER AND NUT.

I. SCREW ANCHORS
1. FOR INSTALLATION IN CONCRETE, SCREW ANCHORS SHALL BE ONE OF THE FOLLOWING:
   a. TITEN HD PER ICC-ES ESR-2713 AS MANUFACTURED BY SIMPSON STRONG TIE.
   b. KH-EZ PER ICC-ES ESR-3027 AS MANUFACTURED BY HILTI, INC.
2. RE-USE OF SCREW ANCHORS OR SCREW ANCHOR HOLTS SHALL NOT BE PERMITTED.
3. SCREW-TYPE ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH SHALL ATTAIN THE SPECIFIED TORQUE WITHIN ONE-QUARTER (1/4) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.
4. MINIMUM ANCHOR EMBEDMENT AND TORQUE TEST VALUES ARE AS FOLLOWS:

TITEN HD IN NORMAL WEIGHT CONCRETE			
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TORQUE TEST
(IN)		DEPTH (IN)	VALUE (FT-LBS)
1/4	1 5/8	1 3/4	24
3/8	2 1/2	2 3/4	50
1/2	3 1/4	3 3/4	65
5/8	4	4 1/2	100
3/4	4	4 1/2	150

KH-EZ IN NORMAL WEIGHT CONCRETE			
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TORQUE TEST
(IN)		DEPTH (IN)	VALUE (FT-LBS)
1/4	1 5/8	2	18
3/8	2 1/8	2 3/8	40
1/2	2 1/4	2 5/8	45
5/8	3 1/4	3 5/8	85
3/4	4	4 3/8	95

J. POWDER-ACTUATED FASTENERS
1. PAF SHALL BE ONE OF THE FOLLOWING:
   a. SIMPSON STRONG TIE POWDER-ACTUATED FASTENERS PER ICC-S ESR-2138 FOR ANCHORAGE OF METAL O CCONRETE, MASONRY OR STEEL.
   b. HILTI, INC. X-U PER ICC-ES ESR-2269 FOR ANCHORAGE OF METAL TO CONCRETE, MASONRY OR STEEL
   c. HILTI, INC. X-CP 72 PER ICC-ES ESR-2379 FOR ANCHORAGE OF SILL PLATES TO CONCRETE.
2. PROVIDE 0.08"x1.1"x1.1" SQUARE OR 0.08"x1.425" DIAMETER ROUND WASHER AT EACH PAF.
3. MINIMUM PAF EMBED INTO CONCRETE SHALL BE 1", UNLESS OTHERWISE NOTED.
4. MINIMUM PAF EMBED INTO STEEL SHALL BE PER MANUFACTURER.

VIII. SUBMITTALS AND DEFERRED APPROVALS

A. THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL PRIOR TO SENDING TO THE ARCHITECT AND SEOR. SUBMITTALS WILL ONLY BE REVIEWED IF THEY ARE BASED ON THE LATEST DESIGN, IF THEY ADDRESS ANY COMMENTS FROM PREVIOUS VERSIONS OF THE SUBMITTAL, IF THE WORK IS COORDINATED WITH ALL OTHER TRADES, AND IF THE SUBMITTAL DOES NOT INCLUDE SUBSTITUTION REQUESTS. SUBMITTALS NOT MEETING THESE REQUIREMENTS WILL BE RETURNED TO THE CONTRACTOR WITHOUT COMMENT.

B. THE SEOR'S REVIEW OF EACH SUBMITTAL SHALL BE FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT.

C. NO WORK SHALL PROCEED PRIOR TO THE SEOR'S AND ARCHITECT'S APPROVAL OF THE SUBMITTAL.

IX. TESTING AND INSPECTION

A. SPECIAL INSPECTIONS SHALL BE PERFORMED BY A SPECIAL INSPECTOR PER CBC SECTIONS 1704A AND 1705A. THE SPECIAL INSPECTOR SHALL BE RETAINED BY THE OWNER AND NOT BY THE CONTRACTOR.

B. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN SEISMIC FORCE RESISTING SYSTEM SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY PER CBC SECTION 1704A.4 TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK FOR THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF REPORTS.
4. IDENTIFICATION AND QUALIFICATION OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

C. SEE PROJECT DSA 103 FORM FOR THE WORK REQUIRES STRUCTURAL TESTS AND SPECIAL INSPECTIONS. FOR SPECIFIC REQUIREMENTS OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS, SEE THE SPECIFICATIONS AND GENERAL NOTES.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
(E)	EXISTING
(N)	NEW
AB	ANCHOR BOLT
ADDL	ADDITIONAL
ALT	ALTERNATE
APPRX	APPROXIMATE
AR	ANCHOR ROD
ARCH	ARCHITECT OR ARCHITECTURAL
AVG	AVERAGE
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRDG	BRIDGING
BTWN	BETWEEN
CIP	CAST-IN-PLACE
CJ	CONTROL/CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLR	CLEAR OR CLEARANCE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION(S)
CONST	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
CTRD	CENTERED
CTRSK	COUNTERSINK
db	DIAMETER OF BOLT OR REBAR
DBL	DOUBLE
DEMO	DEMOLISH
DET	DETAIL
DF	DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DIM(S)	DIMENSION(S)
DL	DEAD LOAD
DWG(S)	DRAWING(S)
DWL	DOWEL(S)
EA	EACH
ECC	ECCENTRICITY
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMBED	EMBEDMENT
EN	EDGE NAIL
ENGR	ENGINEER
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
FF	FINISH FLOOR
FIN	FINISH(ED)
FLR	FLOOR
FN	FIELD NAILING
FND	FOUNDATION
FO	FACE OF
FRM'G	FRAMING
FS	FAR SIDE
FTG	FOOTING
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GEN	GENERAL
GLB	GLUE-LAMINATED BEAM
GR	GRADE
GYP	GYPSUM
HD	HOLDOWN
HDR	HEADER
HGR	HANGER
HK	HOOK
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING VENTING AND AIR CONDITIONING
ID	INSIDE DIAMETER
IF	INSIDE FACE
INFO	INFORMATION
INT	INTERIOR
JH	JOIST HANGER
JST(S)	JOIST(S)
JT	JOINT
LBS	POUNDS
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LONG	LONGITUDINAL
LW	LIGHTWEIGHT
LWC	LIGHTWEIGHT CONCRETE
MATL	MATERIAL
MAX	MAXIMUM
MB	UNFINISHED MACHINE BOLT
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION
MEZZ	MEZZANINE
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
NWC	NORMALWEIGHT CONCRETE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG(S)	OPENING(S)
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
PAF	POWDER ACTUATED FASTENER
PERP	PERPENDICULAR
PL	PLATE
PLY	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
RAD	RADIUS
REF	REFERENCE
REINF	REINFORCE(D) (ING) OR (MENT)
REQD	REQUIRED
REV	REVISION
RWD	REDWOOD
SAD	SEE ARCHITECTURAL DRAWINGS
SCD	SEE CIVIL DRAWINGS
SCHED	SCHEDULE(D)
SECT	SECTION
SEOR	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT (FEET)
SHT	SHEET
SIM	SIMILAR
SLRS	SEISMIC LOAD RESISTING SYSTEM
SMD	SEE MECHANICAL DRAWINGS
SMS	SHEET METAL SCREW(S)
SOG	SLAB ON GRADE
SP	SPACE
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
STAGG'D	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STR	STRUCTURE
STRCTL	STRUCTURAL
SYMM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TD	TIE DOWN
TEMP	TEMPERATURE OR TEMPORARY
THK	THICK OR THICKNESS
THRD'D	THREADED
TO	TOP OF
TRANSV	TRANSVERSE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WF	WIDE FLANGE
WP	WORK POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCEMENT

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PROJECT

LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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BASE DESIGN
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STAMP

REGISTERED PROFESSIONAL ENGINEER — GOKMAN AKALAN — NO. 5594 — STRUCTURAL — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	

SHEET

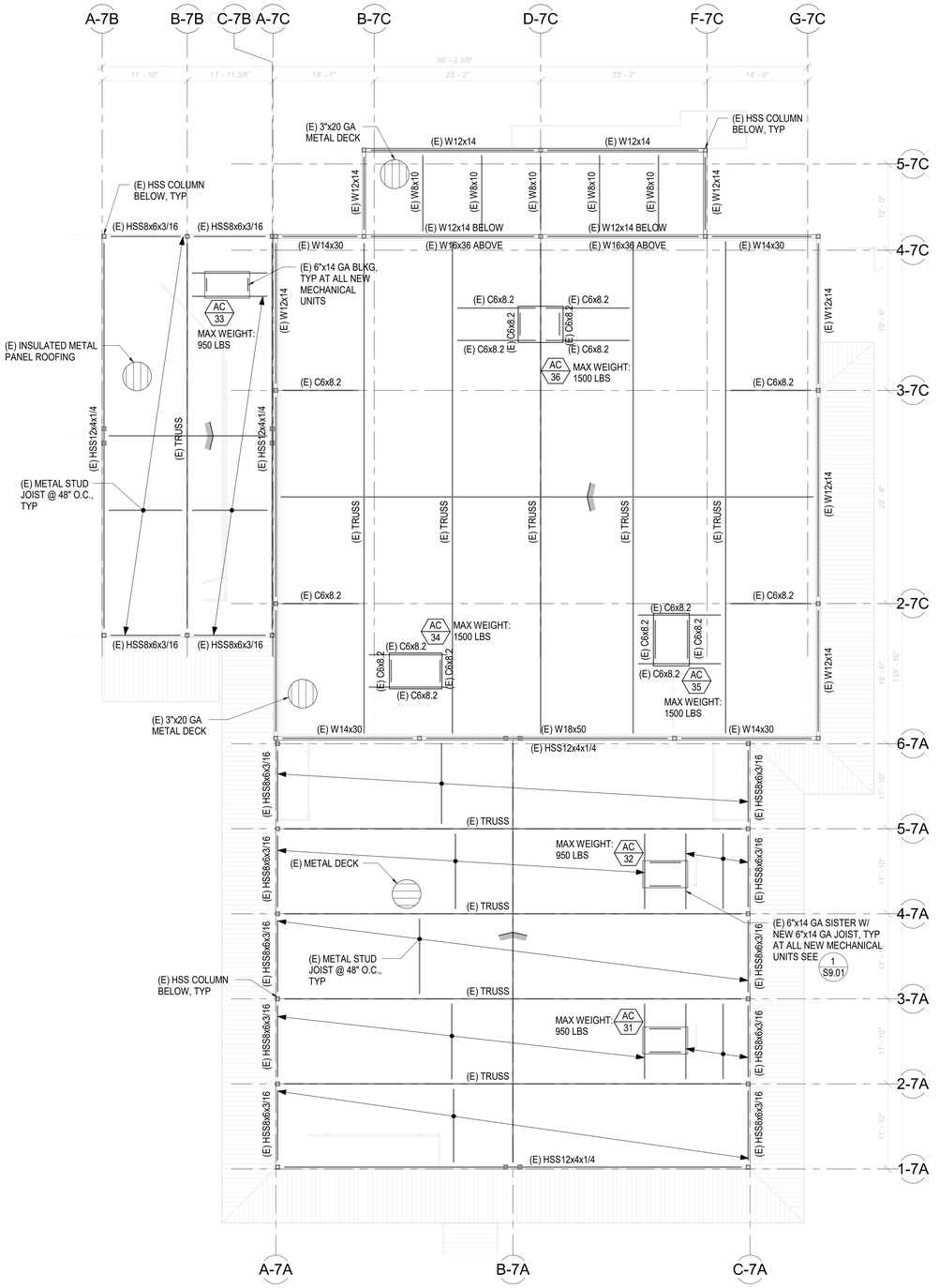
GENERAL NOTES

DATE 11.14.2025

JOB # 2025014

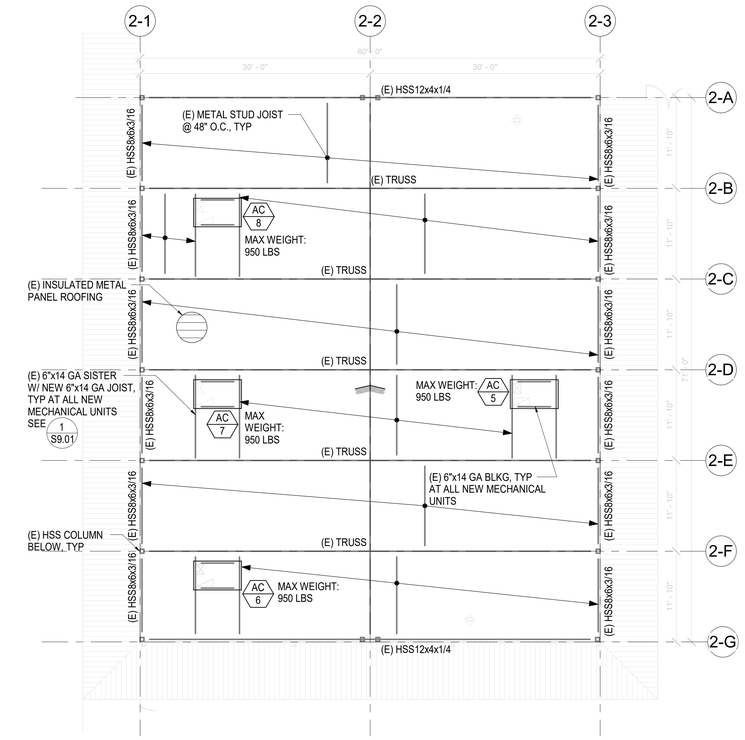
SHEET # S1.00

12/29/2025 2:35:27 PM



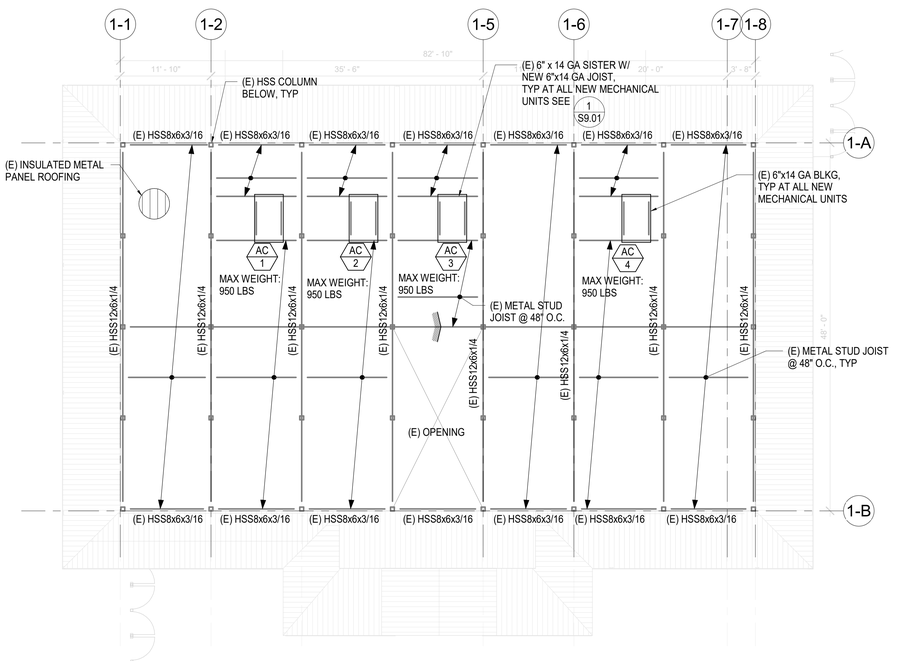
3 ROOF FRAMING PLAN - BLDG 700

1/8" = 1'-0"



2 PARTIAL ROOF FRAMING PLAN - BLDG 200

1/8" = 1'-0"



1 ROOF FRAMING PLAN - BLDG 100

1/8" = 1'-0"

SHEET NOTES:

1. SEE GENERAL NOTES ON SHEET S1.00.
2. SEE TYPICAL METAL STUD DETAILS ON SHEET S9.01.
3. METAL CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE OR EQUAL PRODUCT IF APPROVED BY SEOR. SIMPSON DESIGNATIONS USED IN THESE DRAWINGS.
4. FOR DRAINAGE DETAILS, DAMP PROOFING, TRENCHES, CURBS, EXTERIOR PAVING, UTILITIES, EQUIPMENT DETAIL, ETC., SEE DWG'S OTHER THAN STRUCTURAL.
5. COORDINATE ROOF SLOPE AND ELEVATION WITH ARCHITECTURAL DRAWINGS.

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SHEET

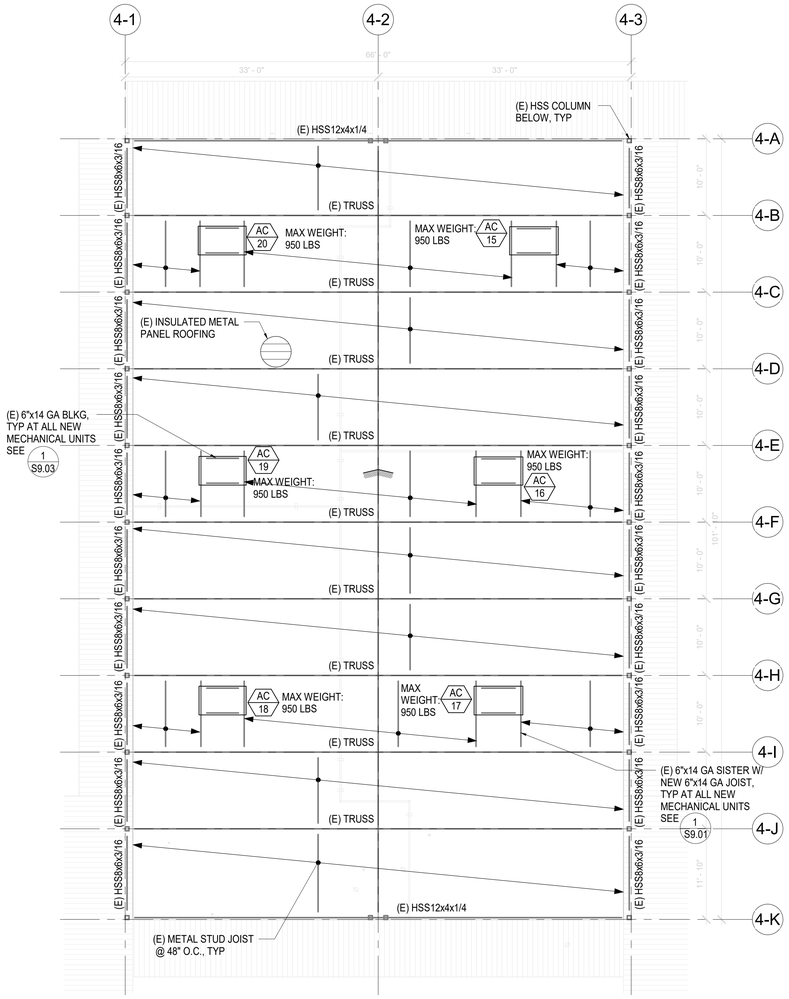
BLDGS 100, 200 & 700 ROOF FRAMING PLANS

DATE 11.14.2025
JOB # 2025014
SHEET # S2.01

12/29/2025 2:35:28 PM

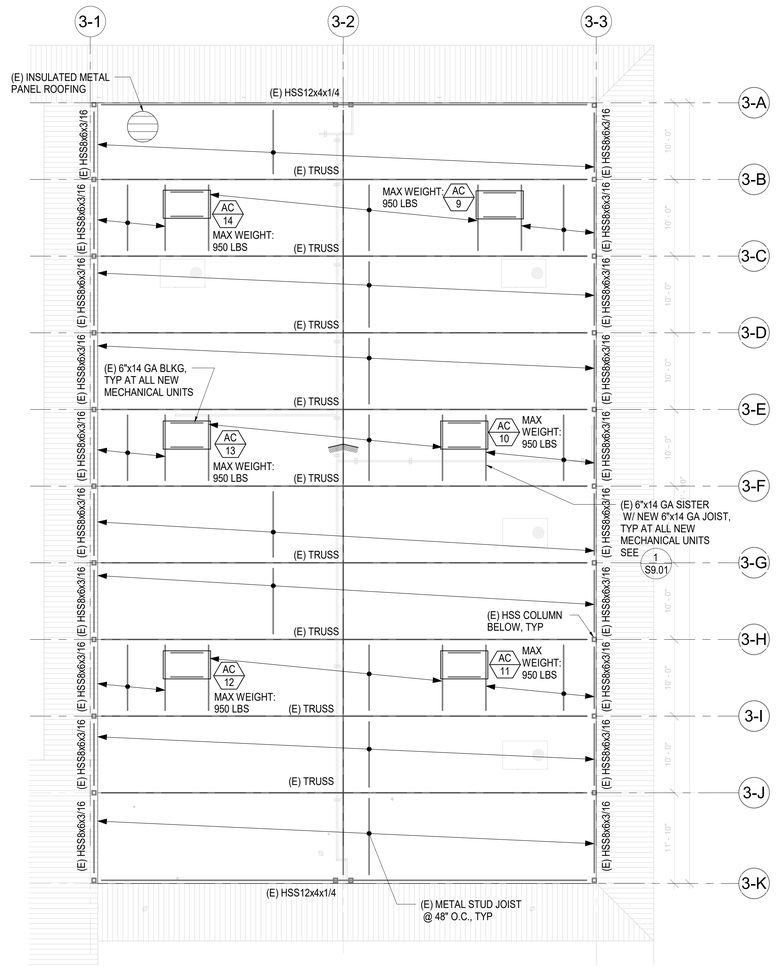
SHEET NOTES:

1. SEE SHEET NOTES ON S2.01



2 ROOF FRAMING PLAN - BLDG 400

1/8" = 1'-0"



1 ROOF FRAMING PLAN - BLDG 300

1/8" = 1'-0"

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DSA SUB	

SHEET

BLDGS 300 & 400 ROOF FRAMING PLANS

DATE 11.14.2025

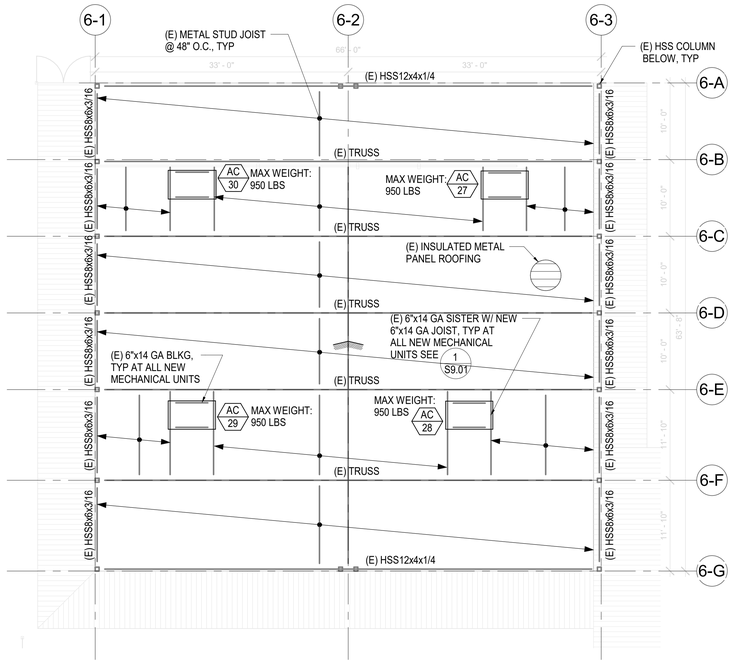
JOB # 2025014

SHEET # S2.02

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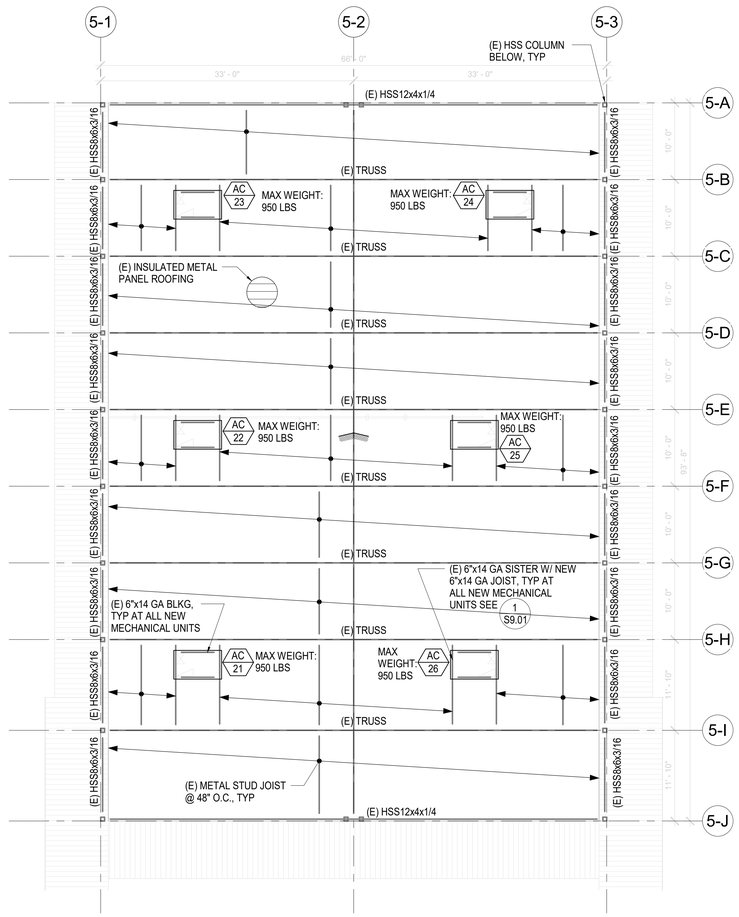
SHEET NOTES:

1. SEE SHEET NOTES ON S2.01



2 ROOF FRAMING PLAN - BLDG 600

1/8" = 1'-0"



1 ROOF FRAMING PLAN - BLDG 500

1/8" = 1'-0"

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STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

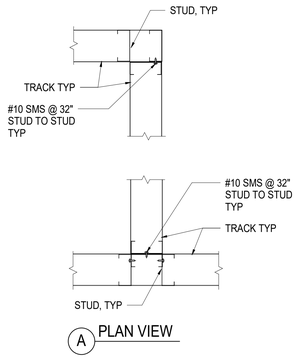
SD	05.23.2025
DD	11.14.2025
90% CD	
DSA SUB	

SHEET

BLDGS 500 & 600 ROOF FRAMING PLANS

DATE 11.14.2025
JOB # 2025014
SHEET # S2.03

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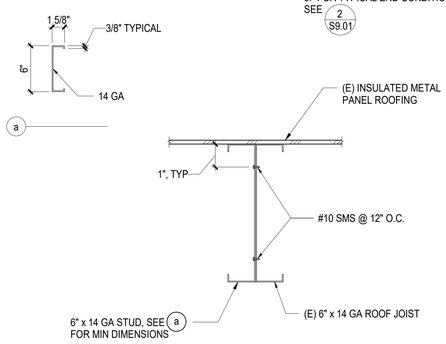


A PLAN VIEW

MAX HEIGHT "H"	STUD SIZE	IDENTIFICATION	STUD SPACING	MINIMUM PROPERTIES				TRACK
				A(in²)	Ix(in⁴)	Sx(in³)	M(in-k)	
9'-6"	3 5/8"x18GA	362S162-43	16" O.C.	0.272	0.709	0.371	7.33	362T150-43
9'-6"	6"x18GA	600S162-43	16" O.C.	0.379	2.315	0.767	16.68	600T150-43
9'-6"	3 5/8"x20GA	362S162-33	12" O.C.	0.262	0.551	0.304	5.29	362T150-43
9'-6"	6"x20GA	600S162-33	12" O.C.	0.344	1.793	0.598	11.41	600T150-43

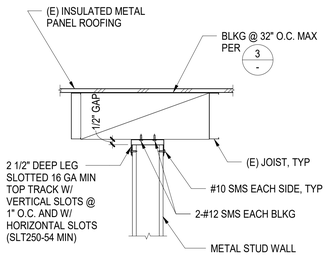
1. METAL STUD WALL FRAMING COMPONENT SHALL CONFIRM TO ASTM A1003 OR A653.
2. ALL STUDS AND TRACKS SHALL COMPLY WITH ICC REPORT N0. ESR-3064P
3. FRAMING MEMBER 18GA AND LIGHTER SHALL BE MIN GRADE 33
   FRAMING MEMBER 16GA AND HEAVIER SHALL BE MIN GRADE 50
4. ALL FRAMING COMPONENT SHALL BE ATTACHED BY WELDING AND/OR SHEET METAL SCREWS AS SHOWN ON THE DRAWINGS.
5. ALL FRAMING COMPONENTS SHALL BE CUT TO FIT SQUARELY AGAINST ABUTTING MEMBER. HOLD MEMBERS FIRMLY IN POSITION UNTIL FASTENED PROPERLY.
6. SPLICES ARE NOT ALLOWED IN STUDS AND TRACKS UNLESS SPECIFICALLY DETAILED IN THER DRAWINGS.
7. COORDINATE ALL FRAMING WITH ARCH AND M/E/P DWGS.
8. WHEN PROVIDED MANUFACTURES FACTORY PUNCHOUTS SHALL BE LOCATED ALONG THE CENTER LINE OF THE WEBS OF THE STUD MEMBERS AND SHALL HAVE A MINIMUM CENTER TO CENTER SPACING OF 24". PUNCHOUT SHALL HAVE A MAXIMUM WIDTH OF HALF THE DEPTH OF MEMBER OR 2 1/2", WHICHEVER IS LESS. AND SHALL HAVE A MAXIMUM LENGHT OF 4 1/2".

NOTES:
1. DIMENSIONS SHOWN ARE MIN
2. CUSTOM STUD Fy= 50 KSI
3. FOR TYPICAL END CONDITIONS SEE (2) S9.01

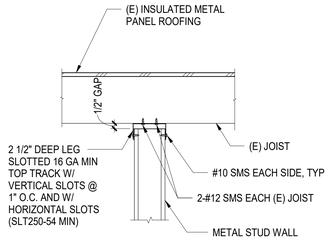


10 TYPICAL CORNERS AND INTERSECTIONS

NTS



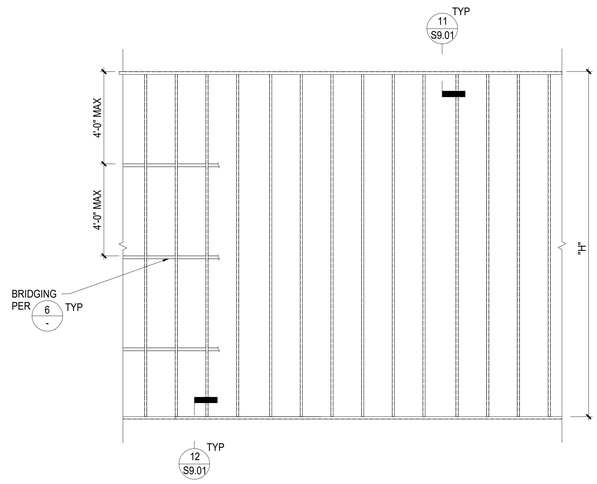
A PARALLEL TO (E) JOISTS



B PERP TO (E) JOISTS

7 TYPICAL METAL STUD WALL FRAMING NOTES AND SCHEDULE

NTS

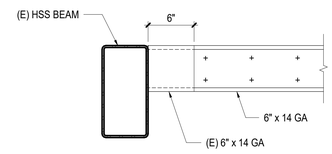


8 TYPICAL METAL STUD FRAMING ELEVATION

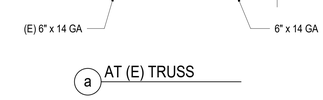
NTS

1 STRENGTHENING OF (E) METAL STUD JOIST AT MECHANICAL UNIT

NTS



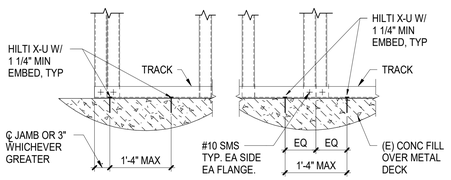
b AT (E) HSS BEAM



a AT (E) TRUSS

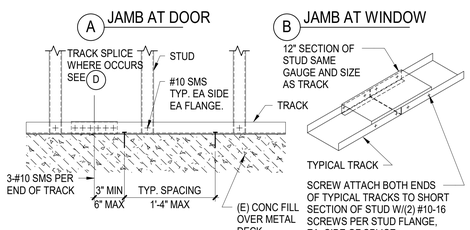
2 TYPICAL END CONDITIONS

NTS



A JAMB AT DOOR

B JAMB AT WINDOW

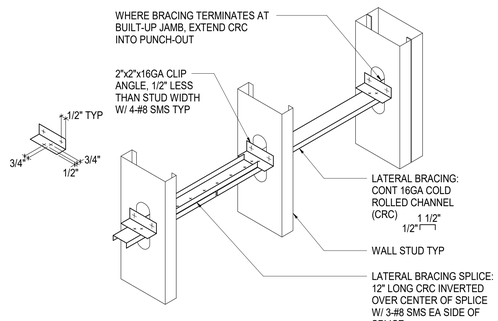


C TYP. TRACK

D TRACK SPLICE

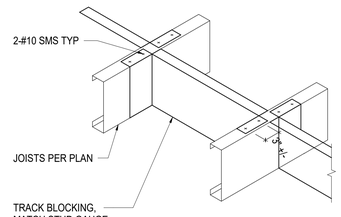
12 TYPICAL BASE CONDITIONS

NTS



6 TYPICAL BRIDGING

NTS



3 BLOCKING DETAIL

NTS

11 METAL STUD WALL TOP CONNECTION & SUPPORT

NTS

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SHEET

METAL STUD FRAMING DETAILS

DATE 11.14.2025

JOB # 2025014

SHEET # S9.01

12/29/2025 2:35:29 PM

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS.

2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.

3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS, AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.

4. COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE, AND EQUIPMENT PRIOR TO COMMENCING WORK.

5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES.

6. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE DIFFUSER, GRILLE, OR REGISTER.

7. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.

8. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING, ETC. ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING, ETC. IS SHOWN LIGHT. SEE LEGEND.

9. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED ("X") OUT, SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.

10. WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 8"ø AND 9x9) CONTRACTOR SHALL OVERSIZE THE SHEET METAL PLENUM TO ACCOMMODATE THE ROUND DUCT CONNECTION.

11. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT +46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

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

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND 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 DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK, & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.126.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

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

MP ☐ MD ☒ PP ☐ E ☐ OPTION 1: PROJECT-SPECIFIC DESIGN.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

CALIFORNIA ENERGY CODE - ACCEPTANCE TESTING

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

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

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

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

A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE

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

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

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ABC	ABOVE CEILING	KEF	KITCHEN EXHAUST FAN
ABV	ABOVE	KW	KILOWATTS
ACC DR	ACCESS DOOR		
ACC P	ACCESS PANEL	LAV	LAVATORY
ACU	AIR CONDITIONING UNIT	LAT	LEAVING AIR TEMPERATURE
AFF	ABOVE FINISHED FLOOR	LBS	POUNDS
AHU	AIR HANDLING UNIT	LD	LOUVERED DOOR
APD	AIR PRESSURE DROP, INCHES WATER COLUMN	LDB	LEAVING DRY BULB
APPROX	APPROXIMATE	LPS	LOW PRESSURE STEAM
ARCH	ARCHITECTURAL	LRA	LOCKED ROTOR AMPS
ATTEN	ATTENUATORS	LTCP	LOCAL TEMPERATURE CONTROL PANEL
ATV	ACOUSTIC TURNING VANE	LVR	LOUVER
		LWB	LEAVING WET BULB
BD	BALANCE DAMPER	LWT	LEAVING WATER TEMPERATURE
BDD	BACK DRAFT DAMPER	MAT	MIXED AIR TEMPERATURE
BHP	BRAKE HORSE POWER	MAU	MAKE-UP AIR UNIT
BLDG	BUILDING	MAV	MANUAL AIR VENT
BOD	BOTTOM OF DUCT	MAX	MAXIMUM
BOR	BOTTOM OF REGISTER	MBH	THOUSAND BTUs PER HOUR
BTUH	BRITISH THERMAL UNITS PER HOUR	MCA	MINIMUM CIRCUIT AMPACITY
		MCC	MOTOR CONTROL CENTER
CAP	CAPACITY	MD	MOTORIZED
CD	CONDENSATE DRAIN	MECH	MECHANICAL
CEF	CEILING EXHAUST FAN	MFR	MANUFACTURER
CFH	CUBIC FEET OF GAS PER HOUR	MIN	MINIMUM
CFM	CUBIC FEET OF AIR FLOW PER MINUTE	MOCP	MAXIMUM OVERCURRENT PROTECTION
CHV	CHECK VALVE		
CLG	CEILING	OA	OUTSIDE AIR
CLR	CLEAR	OAD	OUTSIDE AIR DAMPER
CONC	CONCRETE	OC	ON CENTER
COND	CONDENSER	OD	OUTSIDE DIAMETER
CONN	CONNECT/CONNECTION	OH	OVERHEAD
CONT	CONTINUATION	OV	OUTLET VELOCITY
CONTR	CONTRACTOR		
		PCR	PUMPED CONDENSATE RETURN
D	DAMPER	PD	PRESSURE DROP
DGP	DATA GATHERING PANEL	PRV	PRESSURE REDUCING VALVE/ PRESSURE REGULATING VALVE
DIA	DIAMETER	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
DL	DOOR LOUVER		
DN	DOWN	RA	RETURN AIR
DSP	DRY STAND PIPE	RAD	RETURN AIR DAMPER
DB	DRY BULB	REF	ROOF EXHAUST FAN
DTR	DOWN THROUGH ROOF	RF	RETURN FAN
DWG	DRAWING	RPM	REVOLUTIONS PER MINUTE
		RLA	RATED LOAD AMPS
EA	EXHAUST AIR	RV	RELIEF VENTILATOR
EAD	EXHAUST AIR DAMPER		
EC	EVAPORATIVE COOLER	S & R	SUPPLY AND RETURN
EDB	ENTERING DRY BULB	SA	SUPPLY AIR
EER	ENERGY EFFICIENCY RATING	SAD	SEE ARCHITECTURAL DRAWINGS
EF	EXHAUST FAN	SB	SECURITY BARS
EFF	EFFICIENCY	SD	SPLITTER DAMPER
EH	EXHAUST HOOD	SEER	SEASONAL ENERGY EFFICIENCY RATING
EL	ELEVATION	SF	SUPPLY FAN
ELEC	ELECTRIC/ELECTRICAL	SG	STEAM GENERATOR
ENT	ENTERING	SK	SINK
EQUIP	EQUIPMENT	SM	SHEET METAL
ESP	EXTERNAL STATIC PRESSURE	SOV	SHUT OFF VALVE
EVAP	EVAPORATOR	SP	STATIC PRESSURE
EW	ENTERING WATER	SPD	STATIC PRESSURE DROP
EWB	ENTERING WET BULB	SQ FT	SQUARE FEET
EWC	ELECTRIC WATER COOLER	SQ IN	SQUARE INCHES
EWT	ENTERING WATER TEMPERATURE	SS	STAINLESS STEEL
EXH	EXHAUST	STR	STRAINER
EXT	EXPANSION TANK	STRUC	STRUCTURAL
f	CUBIC FEET OF AIR FLOW PER MINUTE		
F	DEGREES FAHRENHEIT	T	THERMOSTAT
FA	FROM ABOVE	TA	TO ABOVE
FB	FROM BELOW	TB	TO BELOW
FC	FLEXIBLE CONNECTION	T.C.C.	TEMPERATURE CONTROL CONTRACTOR
FCV	FLOW CONTROL VALVE	TCP	TEMPERATURE CONTROL PANEL
FD	FIRE DAMPER	TCV	TEMPERATURE CONTROL VALVE
FF	FLY FAN	TEMP	TEMPERATURE
FIN	FINISH	TFH	THERMAL FLUID HEATER
FLA	FULL LOAD AMPS	THK	THICK
FLR	FLOOR	TP	TOTAL PRESSURE
FPM	FEET PER MINUTE	TS	TEMPERATURE SENSOR
FSD	FIRE AND SMOKE DAMPER	TSP	TOTAL STATIC PRESSURE
FT (')	FOOT OR FEET	TYP	TYPICAL
FT 2	SQUARE FEET		
FV	FACE VELOCITY	UCD	UNDERCUT DOOR
		UF	UNDERFLOOR
GA	GAUGE	UG	UNDERGROUND
GALV	GALVANIZED	UON	UNLESS OTHERWISE NOTED
GI	GALVANIZED IRON	UTR	UP THROUGH ROOF
GPH	GALLONS PER HOUR		
GPM	GALLONS PER MINUTE	V (VTR)	VENT (VENT THROUGH ROOF)
		VAC	VACUUM
HC	HEATING COIL	VD	VOLUME DAMPER
HDG	HEAVY DUTY GRILLE	VF	VENTILATION FAN
HP	HORSE POWER	VFC	VARIABLE FREQUENCY CONTROLLER
HPS	HIGH PRESSURE STEAM	VLV	VALVE
HTG	HEATING	VRF	VARIABLE REFRIGERANT FLOW
HV	HAND VALVE	VSD	VARIABLE SPEED DRIVE
HW	HOT WATER	VV	VARIABLE AIR VOLUME CONTROLLER
HWR	HOT WATER RETURN	VVRH	VARIABLE AIR VOLUME CONTROLLER WITH REHEAT COIL
HWS	HOT WATER SUPPLY		
		W	WATTS
ICF	INSTANTENEOUS CURRENT FLOW	WALL MTD (R)	WALL MOUNTED (RECESSED)
IE	INVERT ELEVATION	WB	WET BULB
IN, (")	INCH	WC	WATER CLOSET
IN 2	SQUARE INCHES	WMS	WIRE MESH SCREEN
		WP	WORKING PRESSURE
		WPD	WATER PRESSURE DROP FEET OF WATER COLUMN
		WT	WEIGHT

DUCT LEGEND

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
24x12	24x12	RECTANGULAR DUCT: WIDTH x DEPTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW)
26x14L	26x14L	ACOUSTICALLY LINED RECTANGULAR DUCT - DIMENSIONS ARE OUTSIDE
		MANUAL AIR DAMPER
R or D	R or D	RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
OR		RECTANGULAR TO RECTANGULAR TRANSISTION OR ROUND TO ROUND TRANSITION, MAX. SLOPE OF 1:3
		RECTANGULAR TO ROUND TRANSITION, MAX. SLOPE OF 1:3
	W, R, R/W = 1.5	ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
		SQUARE/RECTANGULAR DUCT ELBOW WITH TURNING VANES
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
ROUND DUCT		ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		RECTANGULAR DUCT TEE MAD'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP
		RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP
		3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MAD'S OF THE TREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP.
		FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
		SUPPLY AIR, SUPPLY DROP/RISE
		RETURN AIR, RETURN AIR DROP/RISE
		EXHAUST AIR, EXHAUST AIR DROP/RISE
		NEW - FLEXIBLE DUCT (ROUND)
OR		EXISTING - FLEXIBLE DUCT (ROUND)
10"Ø, 18"Ø, 12"Ø	10"Ø, 18"Ø, 12"Ø	45° REDUCING LATERAL FITTING
18"Ø, 10"Ø, 12"Ø	18"Ø, 10"Ø, 12"Ø	90° REDUCING TEE FITTING

MECHANICAL SHEET INDEX

M0.01	MECHANICAL COVER SHEET
M0.02	MECHANICAL SCHEDULES
M2.01	MECHANICAL DEMOLITION FLOOR PLAN - BLDG 100, 200, & 700
M2.02	MECHANICAL DEMOLITION FLOOR PLAN - BLDG 300 & 400
M2.03	MECHANICAL DEMOLITION FLOOR PLAN - BLDG 500 & 600
M2.04	MECHANICAL FLOOR PLAN - BLDG 100, 200, & 700
M2.05	MECHANICAL FLOOR PLAN - BLDG 300 & 400
M2.06	MECHANICAL FLOOR PLAN - BLDG 500 & 600
M5.01	MECHANICAL DEMOLITION ROOF PLAN - BLDG 100, 200, & 700
M5.02	MECHANICAL DEMOLITION ROOF PLAN - BLDG 300 & 400
M5.03	MECHANICAL DEMOLITION ROOF PLAN - BLDG 500 & 600
M5.04	MECHANICAL ROOF PLAN - BLDG 100, 200, & 700
M5.05	MECHANICAL ROOF PLAN - BLDG 300 & 400
M5.06	MECHANICAL ROOF PLAN - BLDG 500 & 600
M6.01	MECHANICAL DETAILS & CONTROLS
M6.02	MECHANICAL DETAILS & CONTROLS
M7.01	MECHANICAL TITLE 24 DOCUMENTATION
M7.02	MECHANICAL TITLE 24 DOCUMENTATION
M7.03	MECHANICAL TITLE 24 DOCUMENTATION
M7.04	MECHANICAL TITLE 24 DOCUMENTATION
M7.05	MECHANICAL TITLE 24 DOCUMENTATION

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PROJECT

LEDESMA ES MODERNIZATION

Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

RC - ED/G/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER — RYAN CELAYA — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: _____

STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

MECHANICAL LEGENDS AND NOTES

DATE 12.29.2025

JOB # 2025014

SHEET #

M0.01

12/23/2025 6:06:42 PM

LEDESMA ELEMENTARY SCHOOL - AIR CONDITIONING UNIT SCHEDULE

UNIT	SERVES	"CARRIER" MODEL NO. U.N.O.	NOM. TONS	CFM	MIN. O.A. (CFM)	ESP (IN. W.G.)	DX COOLING					GAS HEATING			AC UNIT ELECTRICAL DATA														EFFICIENCY						OPERATING WEIGHT (LBS.)				MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
							LOW CFM (66%)	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	EVAP. EDB (°F)	EVAP. EWB (°F)	INPUT (MBH)	OUTPUT (MBH)	HX EDB (°F)	VOLT/PH	SUPPLY FAN BHP	SUPPLY FAN FLA	COMPRESSOR QTY	COMPRESSOR RLA	COMPRESSOR LRA	COND. FAN QTY	COND. FAN FLA	COMB. FAN FLA	UNIT MCA	UNIT MOCP	PWR. EXH. MCA	PWR. EXH. MOCP	COOLING SEER	COOLING SEER2	COOLING EER	COOLING IEER	HEATING AFUE (%)	HEATING TE (%)	AC. UNIT	PWR. EXH. ECON.	ROOF CURB	TOTAL			
AC 1	BLDG 100 OFFICES 103 - 107	48GEGM04A3M6	3	1200	140	1.0	--	31.8	39.7	80.0	65.0	60	49	70.0	460/3	0.59	1.7	1	4.8	44	1	1.4	0.25	12	15	1.5	2.7	17.2	16.8	--	--	--	81.0	615	225	N/A	840	1 M6.01	2 M6.01	1 2 3 4 5
AC 2	BLDG 100 RECEPTION 101 & WORKROOM 103	48GEGM05A3M6	4	1600	245	1.0	--	42.9	52.7	80.0	65.0	60	49	70.0	460/3	1.05	2.6	1	8.1	62	1	1.4	0.25	17	20	1.5	2.7	17.2	16.8	--	--	--	81.0	635	225	N/A	860	1 M6.01	2 M6.01	1 2 3 4 5
AC 3	BLDG 100 RECEPTION 101	48GEGM05A3M6	4	1600	115	1.0	--	42.9	52.7	80.0	65.0	60	49	70.0	460/3	1.05	2.6	1	8.1	62	1	1.4	0.25	17	20	1.5	2.7	17.2	16.8	--	--	--	81.0	635	225	N/A	860	1 M6.01	2 M6.01	1 2 3 4 5
AC 4	BLDG 100 LOUNGE 110 & CONFERENCE 115	48GEGM05A3M6	4	1600	465	1.0	--	42.9	52.7	80.0	65.0	60	49	70.0	460/3	1.05	2.6	1	8.1	62	1	1.4	0.25	17	20	1.5	2.7	17.2	16.8	--	--	--	81.0	635	225	N/A	860	1 M6.01	2 M6.01	1 2 3 4 5
AC 5	BLDG 200 WORKROOM 201	48GEGM05A3M6	4	1600	525	1.0	--	42.9	52.7	80.0	65.0	60	49	70.0	460/3	1.05	2.6	1	8.1	62	1	1.4	0.25	17	20	1.5	2.7	17.2	16.8	--	--	--	81.0	635	225	N/A	860	1 M6.01	2 M6.01	1 2 3 4 5
AC 6	BLDG 200 KINDERGARTEN 207	48GEGM05A3M6	4	1600	UPPER 350 / LOWER 140	1.0	--	42.9	52.7	80.0	65.0	60	49	70.0	460/3	1.05	2.6	1	8.1	62	1	1.4	0.25	17	20	1.5	2.7	17.2	16.8	--	--	--	81.0	635	225	N/A	860	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 7	BLDG 200 KINDERGARTEN 208	48GEGM05A3M6	4	1600	UPPER 350 / LOWER 140	1.0	--	42.9	52.7	80.0	65.0	60	49	70.0	460/3	1.05	2.6	1	8.1	62	1	1.4	0.25	17	20	1.5	2.7	17.2	16.8	--	--	--	81.0	635	225	N/A	860	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 8	BLDG 200 KINDERGARTEN 209	48GEGM05A3M6	4	1600	UPPER 350 / LOWER 140	1.0	--	42.9	52.7	80.0	65.0	60	49	70.0	460/3	1.05	2.6	1	8.1	62	1	1.4	0.25	17	20	1.5	2.7	17.2	16.8	--	--	--	81.0	635	225	N/A	860	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 9	BLDG 300 CLASSROOM 301	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 10	BLDG 300 CLASSROOM 302	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 11	BLDG 300 CLASSROOM 303	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 12	BLDG 300 CLASSROOM 310	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 13	BLDG 300 CLASSROOM 311	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 14	BLDG 300 CLASSROOM 312	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 15	BLDG 400 CLASSROOM 401	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 16	BLDG 400 CLASSROOM 402	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 17	BLDG 400 CLASSROOM 403	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 18	BLDG 400 CLASSROOM 410	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 19	BLDG 400 CLASSROOM 411	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 20	BLDG 400 CLASSROOM 412	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 21	BLDG 500 CLASSROOM 501	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 22	BLDG 500 CLASSROOM 502	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 23	BLDG 500 CLASSROOM 503	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 24	BLDG 500 CLASSROOM 511	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 25	BLDG 500 CLASSROOM 512	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 26	BLDG 500 CLASSROOM 513	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 27	BLDG 600 CLASSROOM 601	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 28	BLDG 600 CLASSROOM 602	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 29	BLDG 600 CLASSROOM 610	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 30	BLDG 600 CLASSROOM 611	48GEHM06A3M6	5	2000	UPPER 375 / LOWER 150	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	3 M6.01	1 2 3 4 5 6
AC 31	BLDG 700 MEDIA CENTER 701	48FEDM07A3M6	6	2400	UPPER 655 / LOWER 260	1.0	1585	64.5	78.1	80.0	65.0	67	54	70.0	460/3	1.56	3.1	1	9.6	71	1	0.8	0.25	19	25	3	5.4	--	--	11.2	15.5	--	82.0	665	225	N/A	890	1 M6.01	3 M6.01	1 2 3 4 5 6 7 8
AC 32	BLDG 700 MEDIA CENTER 701	48FEDM07A3M6	6	2400	UPPER 655 / LOWER 260	1.0	1585	64.5	78.1	80.0	65.0	67	54	70.0	460/3	1.56	3.1	1	9.6	71	1	0.8	0.25	19	25	3	5.4	--	--	11.2	15.5	--	82.0	665	225	N/A	890	1 M6.01	3 M6.01	1 2 3 4 5 6 7 8
AC 33	BLDG 700 KITCHEN 713	48FEDM07A3M6	6	2400	1270	1.0	1585	64.5	78.1	80.0	65.0	67	54	70.0	460/3	1.56	3.1	1	9.6	71	1	0.8	0.25	19	25	3	5.4	--	--	11.2	15.5	--	82.0	665	225	N/A	890	1 M6.01	2 M6.01	1 2 3 4 5 6 7 8
AC 34	BLDG 700 MULTI-PURPOSE 707	48GEDM12A3M6	10	4000	UPPER 600 / LOWER 240	1.0	2640	108.7	130.4	80.0	65.0	120 / 180	98 / 148	70.0	460/3	2.99	5.6	2	9.1 / 6	75 / 49	1	7.4	0.25	33	40	3.875	6.975	--	--	12.1	17.5	--	82.0	1125	330	N/A	1455	1 M6.01	1 M6.02	1 2 3 4 5 6 7 9
AC 35	BLDG 700 MULTI-PURPOSE 707	48GEDM12A3M6	10	4000	UPPER 600 / LOWER 240	1.0	2640	108.7	130.4	80.0	65.0	120 / 180	98 / 148	70.0	460/3	2.99	5.6	2	9.1 / 6	75 / 49	1	7.4	0.25	33	40	3.875	6.975	--	--	12.1	17.5	--	82.0	1125	330	N/A	1455	1 M6.01	1 M6.02	1 2 3 4 5 6 7 9
AC 36	BLDG 700 STAGE 708	48GEHM06A3M6	5	2000	880	1.0	--	52.5	63.8	80.0	65.0	82	66	70.0	460/3	1.27	3.1	1	6.7	58	1	1.4	0.25	16	20	1.875	3.375	17.2	16.8	--	--	--	80.0	705	225	N/A	930	1 M6.01	2 M6.01	1 2 3 4 5 6

NOTES:

1. UNITS SELECTED AT 104 F DB / 70 F WB SUMMER AMBIENT, 20 F DB WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE & NET TOTAL CAPACITIES.
2. PROVIDE UNIT WITH R-454B REFRIGERANT (SAFETY GROUP A2L, HIGH-PROBABILITY SYSTEM), FACTORY INTEGRAL REFRIGERANT LEAK DETECTION SENSOR & CONTROLS, LOUVERED CONDENSER COIL GUARDS, HINGED ACCESS DOORS, PHASE MONITOR/PROTECTION, THRU-THE-BOTTOM WIRING CONNECTION KIT, AUXILIARY STRIP HEATER WIRED FOR SINGLE POINT POWER CONNECTION, AND 2" THICK MERV 13 DISPOSABLE PLEATED MEDIA FILTER(S).
3. PROVIDE UNIT WITH "CANFAB" 100% MODULATING POWER EXHAUST ECONOMIZER WITH VFD, DIFFERENTIAL PRESSURE TRANSDUCER, ROOM PRESSURE TUBING WITH PICKUP FITTING, AMBIENT PRESSURE TUBING WITH INSECT SCREEN FITTING, AND "BELIMO" LF SERIES ACTUATORS. NOTE THAT SEPARATE POWER CONNECTIONS ARE REQUIRED TO THE AC UNIT AND TO THE MODULATING POWER EXHAUST ECONOMIZER. ELECTRICAL LOADS OF EACH DEVICE ARE SCHEDULED. ELECTRICAL CONTRACTOR SHALL PROVIDE SEPARATE POWER CONNECTIONS, APPROPRIATE CIRCUIT BREAKER(S), FEEDER(S), AND DISCONNECT(S) AS REQUIRED BY CODE.
4. MOUNTED ON EXISTING ROOF CURB.
5. LOW SPEED SUPPLY FAN SETTING SHALL BE LOCKED OUT, UNIT SHALL OPERATE AS SINGLE ZONE CONSTANT VOLUME AT ALL TIMES. CONTRACTOR SHALL COORDINATE WITH AC UNIT FACTORY REP TO ACCOMPLISH SINGLE ZONE CONSTANT VOLUME OPERATION.
6. LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 DEMAND CONTROL VENTILATION SYSTEMS AT MINIMUM OCCUPANCY. UPPER OUTSIDE AIR POSITION INDICATED IS BASED ON 15 CFM/OCCUPANT WHEN SPACE IS AT MAXIMUM OCCUPANCY, UNLESS SYSTEM IS IN ECONOMIZER MODE. SEE CONTROLS FOR SEQUENCE OF OPERATION. FOR THESE UNITS WITH DEMAND CONTROL VENTILATION, ENTERING TEMPERATURES SCHEDULED REPRESENT CONDITIONS AT UPPER OSA POSITION.
7. FOR UNITS WITH NOM. COOLING CAPACITY OF 6 TONS AND LARGER, PROVIDE UNIT WITH FACTORY INSTALLED VARIABLE SPEED MOTOR ON SUPPLY FAN AND MINIMUM 2-STAGES OF MECHANICAL COOLING CAPACITY (SINGLE-ZONE VAV). SEE SCHEDULE FOR LOW SUPPLY AIRFLOW CFM (66%). SEE CONTROLS FOR SEQUENCE OF OPERATION.
8. INSTALL DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT FOR AUTOMATIC SHUTDOWN OF HVAC SYSTEM UPON SENSING SMOKE. PROVIDED, POWERED & INTERLOCKED WITH FIRE ALARM SYSTEM BY DIV. 26/28, INSTALLED & CONNECTED TO AC UNIT BY DIV. 23.
9. AUTOMATIC SHUTDOWN OF HVAC SYSTEM IS NOT REQUIRED PER 2022 CMC, SECTION 609.1, EXCEPTION 2: ALL ROOMS HAVE DIRECT EXIT TO OUTSIDE WITH TRAVEL DISTANCE LESS THAN 100 FEET.

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PROJECT

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Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - EDG/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER — RYAN CELAYA — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: _____

STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

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90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

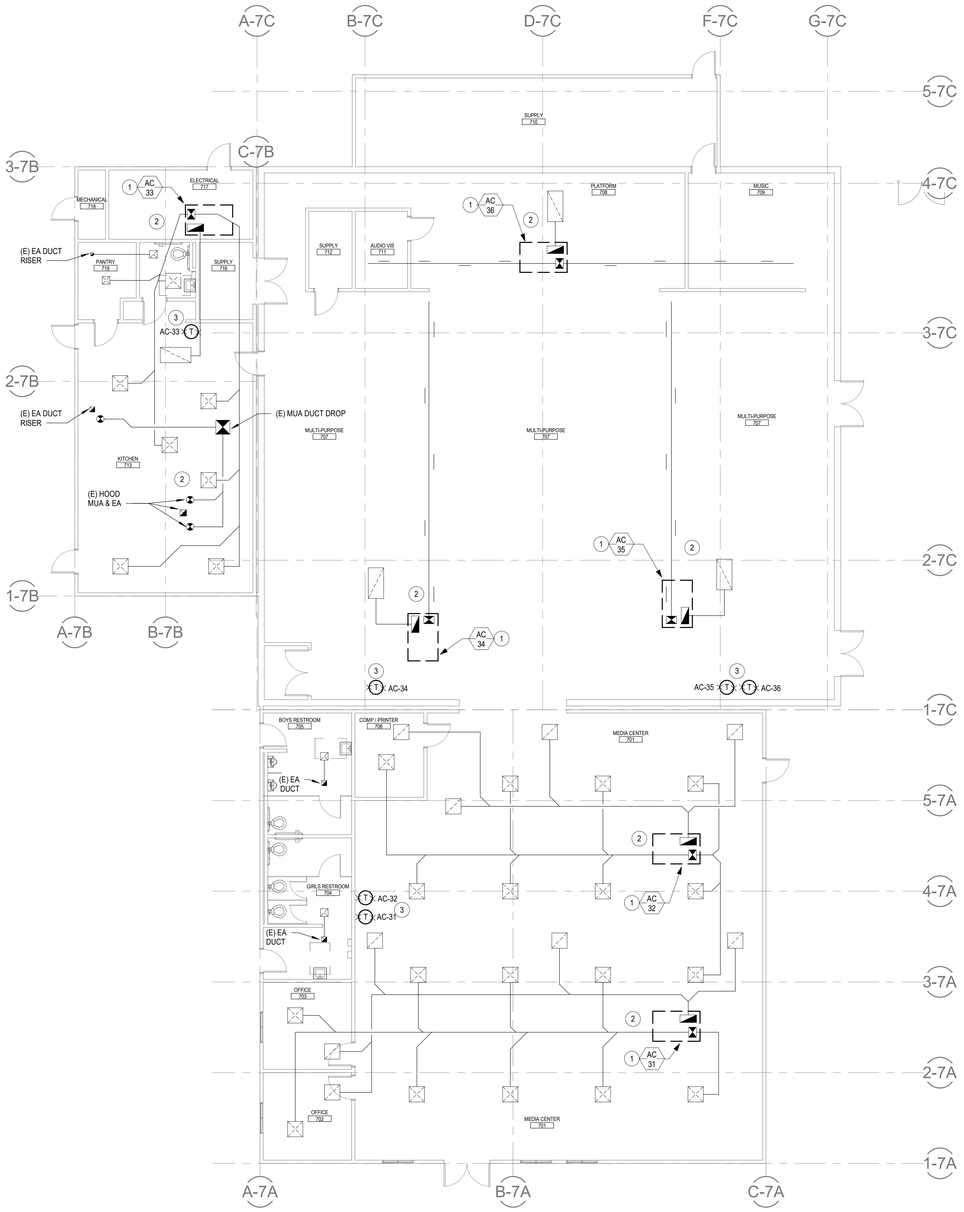
MECHANICAL SCHEDULES

DATE 12.29.2025

JOB # 2025014

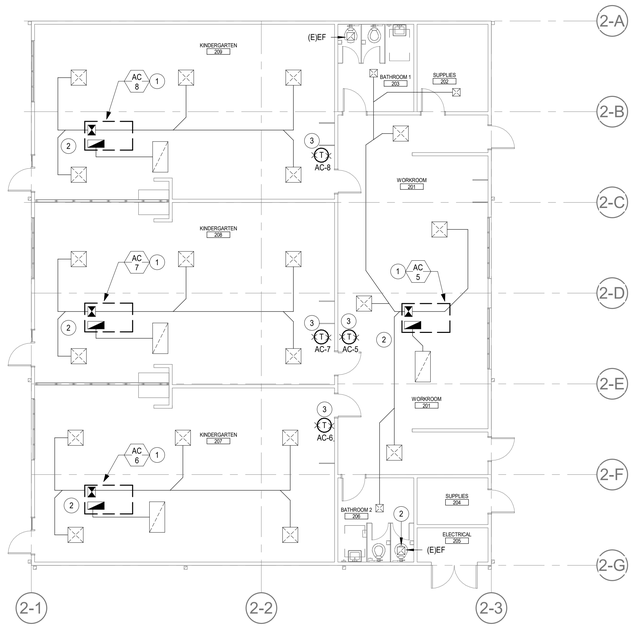
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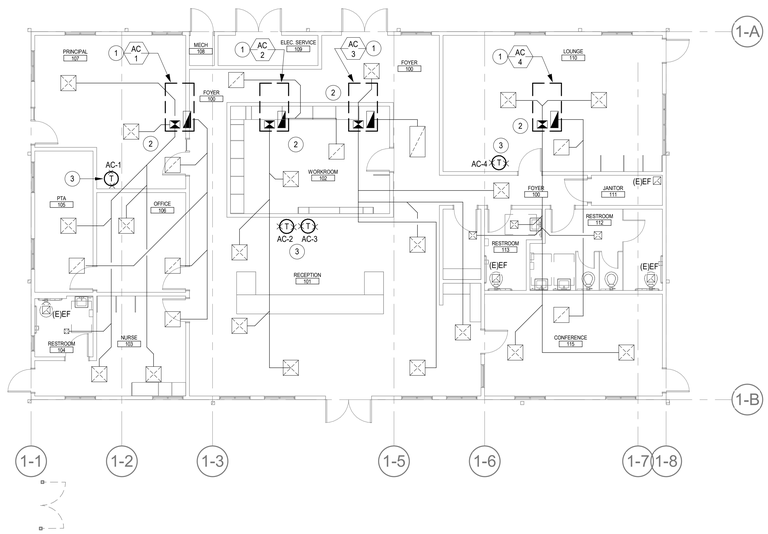
3 M2.01 MECHANICAL - BLDG - 700 - DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"



2 M2.01 MECHANICAL - BLDG 200 - DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"



1 M2.01 MECHANICAL - BLDG 100 - DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"

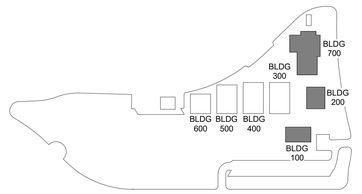
GENERAL SHEET NOTES

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DEMOLITION FLOOR PLAN KEYNOTES

1. REMOVE EXISTING ROOFTOP UNIT ON ROOF, OUTLINE SHOWN FOR LOCATION REFERENCE. ROOFTOP UNIT DUCT DROPS SHOWN FOR REFERENCE.
2. EXISTING DUCTWORK AND FITTINGS ABOVE CEILING TO REMAIN. EXISTING AIR DEVICES TO REMAIN.
3. REMOVE EXISTING THERMOSTATS AND CONTROL WIRING.

KEYPLAN



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PROJECT

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Oak Grove School District

CONSULTANT

capital engineering
Rancho Cordova, California
RC - EDG/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

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REGISTERED PROFESSIONAL ENGINEER
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M 34234
EXPIRES 12/31/26
MECHANICAL
STATE OF CALIFORNIA

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STATE

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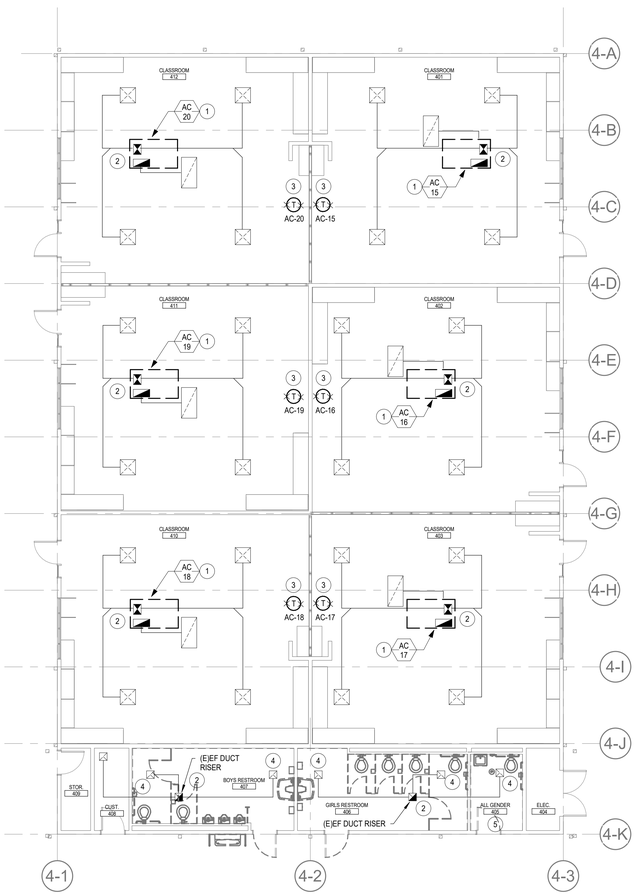
MECHANICAL DEMOLTION FLOOR PLAN - BLDG 100, 200 & 700

DATE 12.29.2025

JOB # 2025014

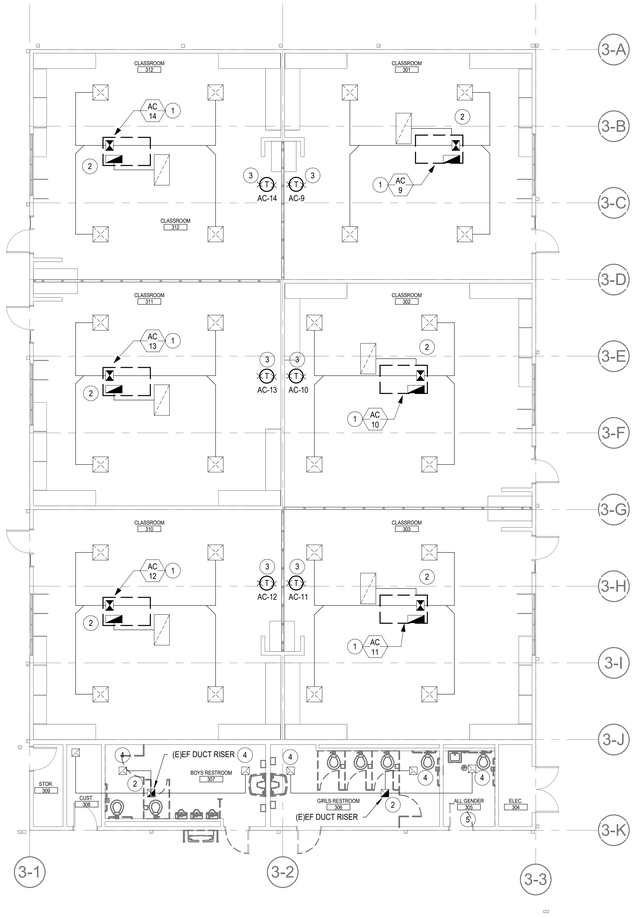
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2 M2.02 MECHANICAL - BLDG 400 - DEMOLITION FLOOR PLAN

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1 M2.02 MECHANICAL - BLDG 300 - DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"

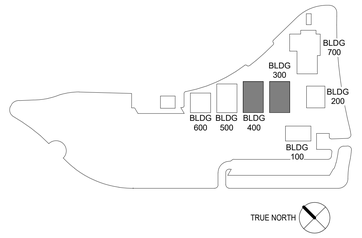
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DEMOLITION FLOOR PLAN KEYNOTES

1. REMOVE EXISTING ROOFTOP UNIT ON ROOF, OUTLINE SHOWN FOR LOCATION REFERENCE. ROOFTOP UNIT DUCT DROPS SHOWN FOR REFERENCE.
2. EXISTING DUCTWORK AND FITTINGS ABOVE CEILING TO REMAIN. EXISTING AIR DEVICES TO REMAIN.
3. REMOVE EXISTING THERMOSTATS AND CONTROL WIRING.
4. REMOVE EXISTING EXHAUST GRILLES TO CLEAN AND PAINT. PREPARE EXISTING DUCTWORK FOR RECONNECTION.
5. DEDUCTIVE ALTERNATE 1: ALL WORK WITHIN ALL GENDER RESTROOM TO BE REMOVED.

KEYPLAN



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MECHANICAL DEMOLITION FLOOR PLAN - BLDG 300 & 400

DATE 12.29.2025

JOB # 2025014

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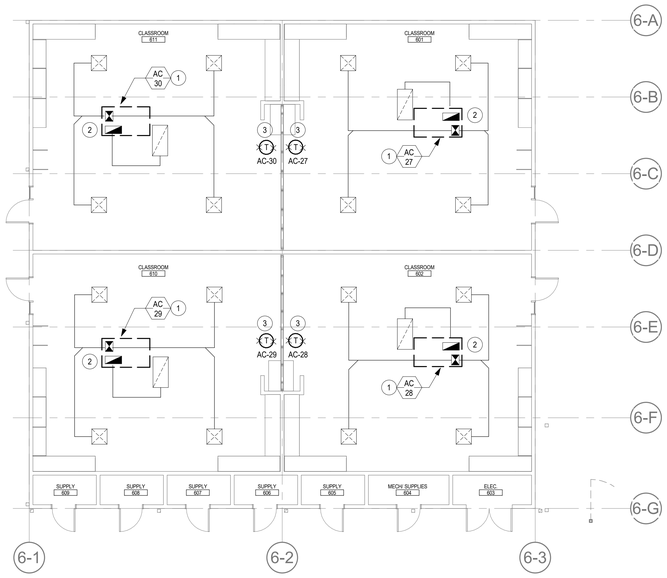
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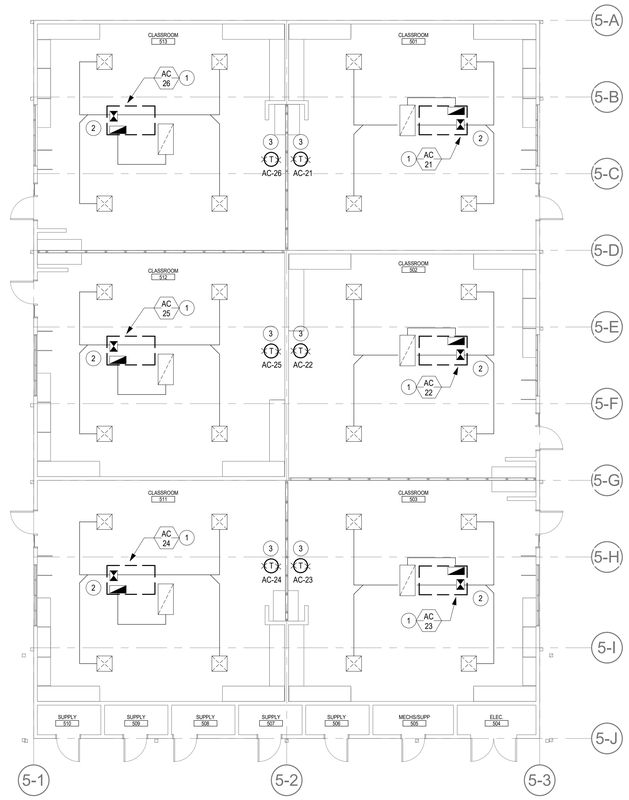
DEMOLITION FLOOR PLAN KEYNOTES

1. REMOVE EXISTING ROOFTOP UNIT ON ROOF, OUTLINE SHOWN FOR LOCATION REFERENCE. ROOFTOP UNIT DUCT DROPS SHOWN FOR REFERENCE.
2. EXISTING DUCTWORK AND FITTINGS ABOVE CEILING TO REMAIN. EXISTING AIR DEVICES TO REMAIN.
3. REMOVE EXISTING THERMOSTATS AND CONTROL WIRING.



2 M2.03 MECHANICAL - BLDG 600 - DEMOLITION FLOOR PLAN

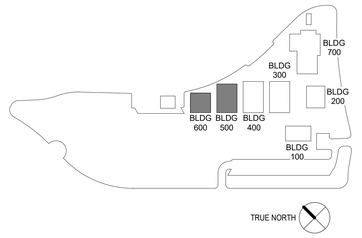
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1 M2.03 MECHANICAL - BLDG 500 - DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"

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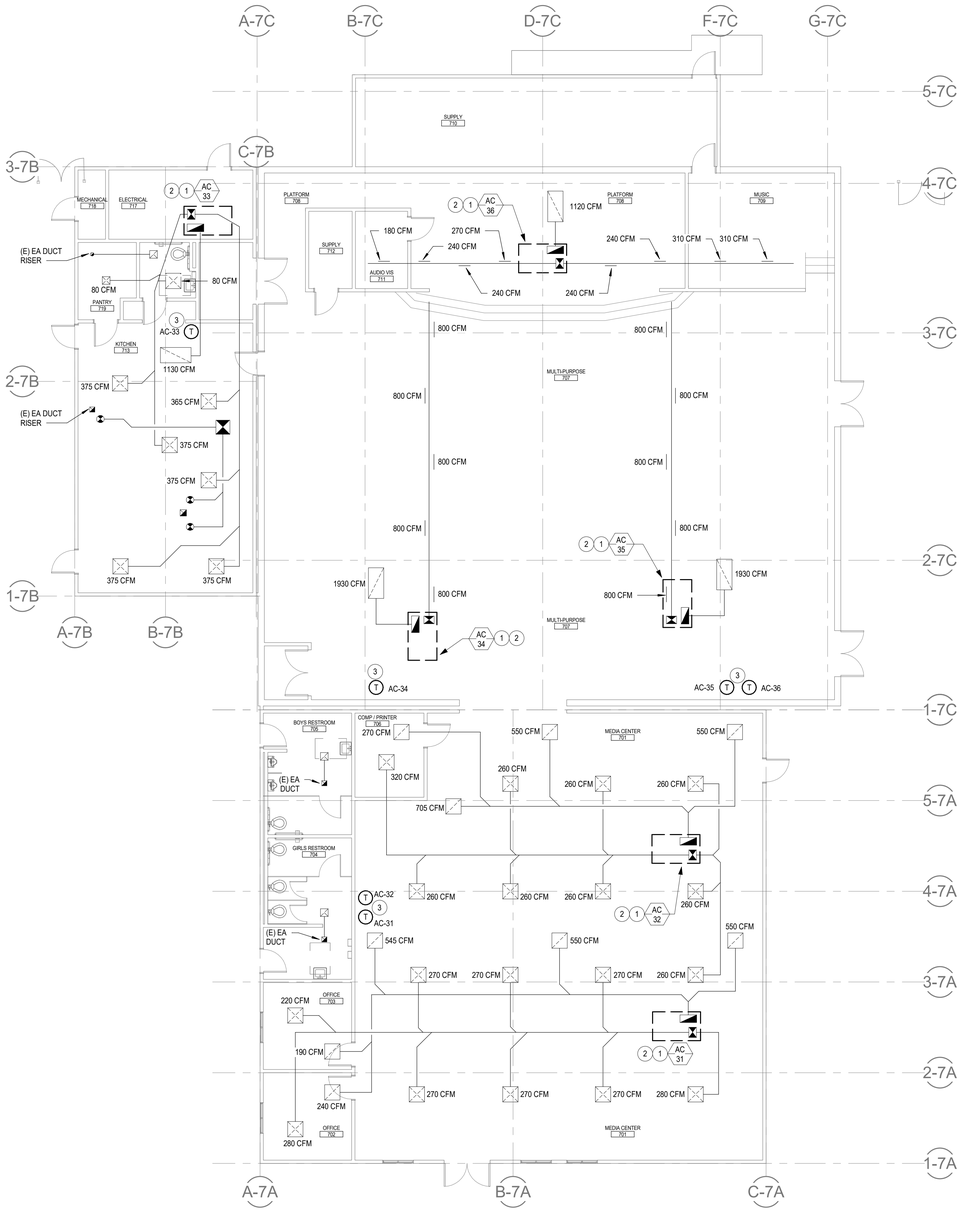
MECHANICAL DEMOLITION FLOOR PLAN - BLDG 500 & 600

DATE 12.29.2025

JOB # 2025014

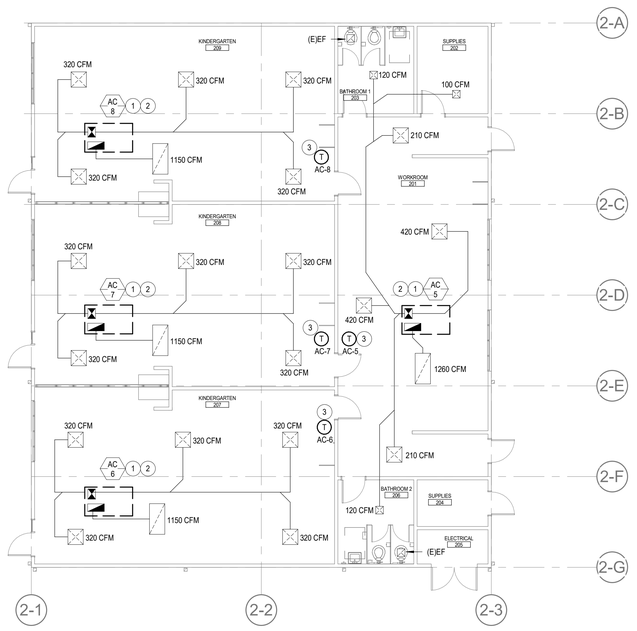
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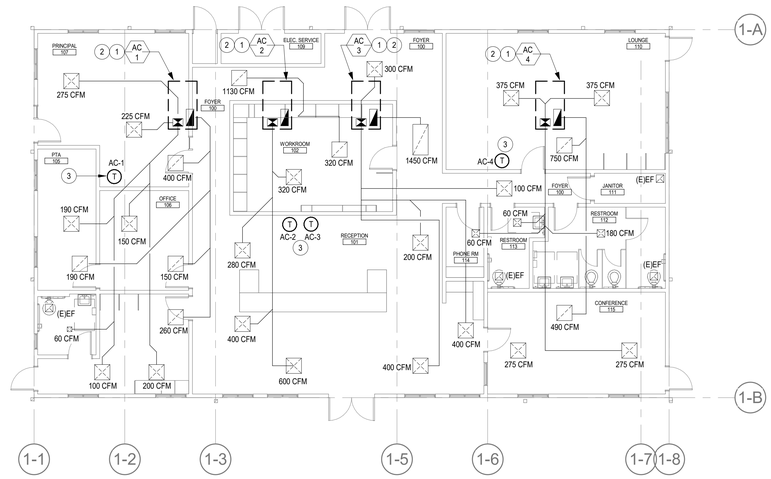
2 M2.04 MECHANICAL - BLDG 200 - FLOOR PLAN

SCALE: 1/8" = 1'-0"



3 M2.04 MECHANICAL - BLDG 700 - FLOOR PLAN

SCALE: 1/8" = 1'-0"



1 M2.04 MECHANICAL - BLDG 100 - FLOOR PLAN

SCALE: 1/8" = 1'-0"

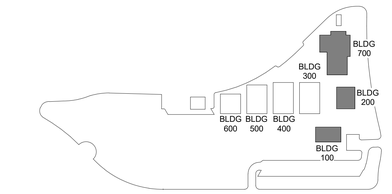
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3. AT COMPLETION OF PROJECT, RE-BALANCE ALL DIFFUSERS/GRILLES TO THE CFM'S INDICATED.

FLOOR PLAN KEYNOTES

1. NEW ROOFTOP UNIT ON ROOF, OUTLINE SHOWN FOR LOCATION REFERENCE.
2. RE-CONNECT TO EXISTING DUCT DROPS. SEE PLUMBING DRAWINGS FOR RE-CONNECTION TO CONDENSATE AND GAS PIPING.
3. INSTALL NEW THERMOSTATS, RE-CONNECT TO EXISTING CONTROLS.

KEYPLAN



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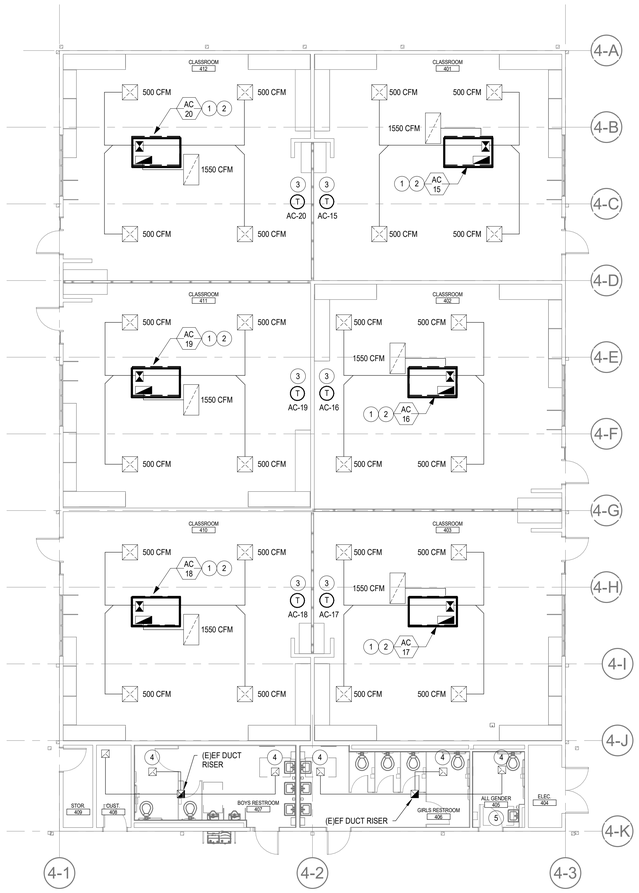
MECHANICAL FLOOR PLAN - BLDG 100, 200 & 700

DATE 12.29.2025

JOB # 2025014

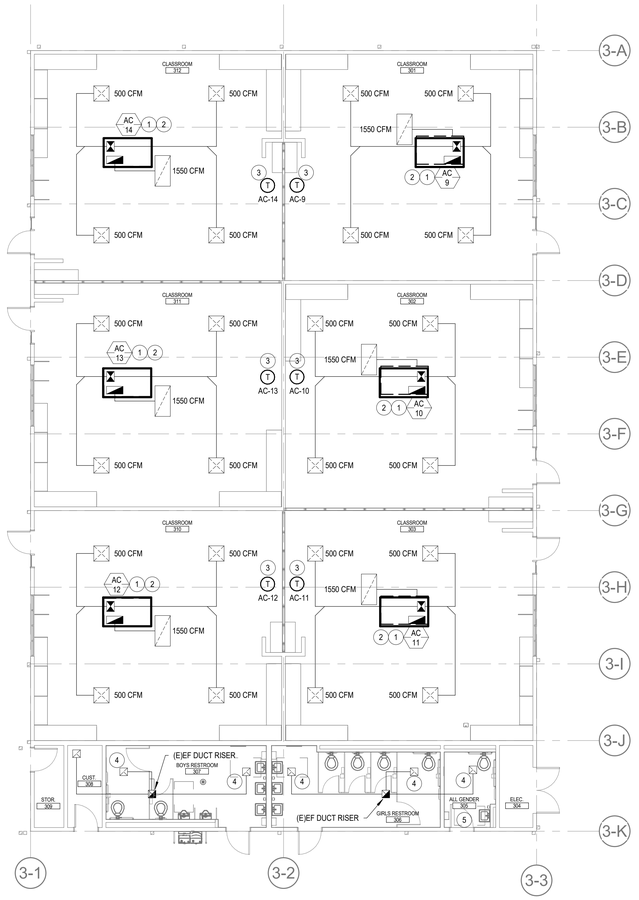
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2 M2.05 MECHANICAL - BLDG 400 - FLOOR PLAN

SCALE: 1/8" = 1'-0"



1 M2.05 MECHANICAL - BLDG 300 - FLOOR PLAN

SCALE: 1/8" = 1'-0"

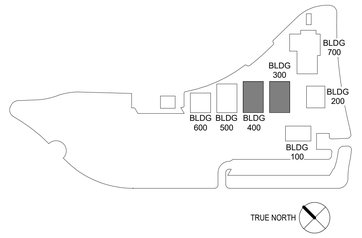
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FLOOR PLAN KEYNOTES

1. NEW ROOFTOP UNIT ON ROOF, OUTLINE SHOWN FOR LOCATION REFERENCE.
2. RE-CONNECT TO EXISTING DUCT DROPS. SEE PLUMBING DRAWINGS FOR RE-CONNECTION TO CONDENSATE AND GAS PIPING.
3. INSTALL NEW THERMOSTATS, RE-CONNECT TO EXISTING CONTROLS.
4. RE-INSTALL EXISTING EXHAUST GRILLES TO EXISTING EXHAUST DUCTWORK.
5. DEDUCTIVE ALTERNATE 1: ALL WORK WITHIN ALL GENDER RESTROOM TO BE REMOVED.

KEYPLAN



aedis architects
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333 W. Santa Clara Street, Suite 900
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

LEDESMA ES MODERNIZATION

Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - EDG/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER
RYAN CELAYA
M 34234
EXPIRES 12/31/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED:

STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date

MILESTONES

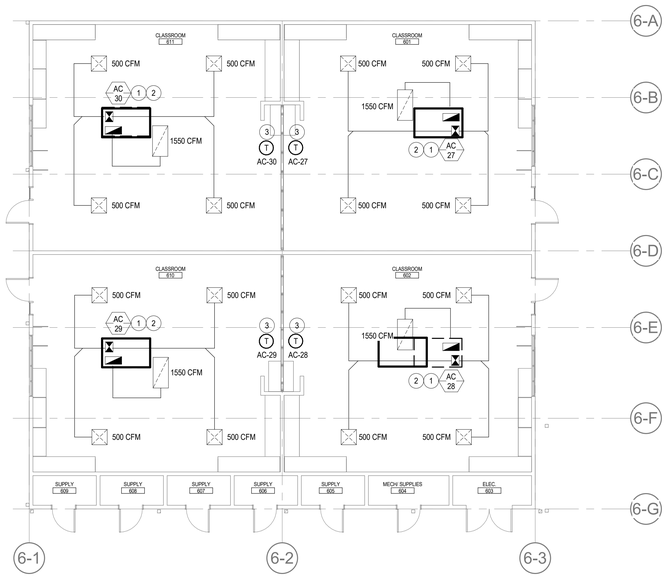
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DD	11.14.2025
90% CD	12.17.2025
DSA SUB	12.29.2025

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MECHANICAL FLOOR PLAN - BLDG 300 & 400

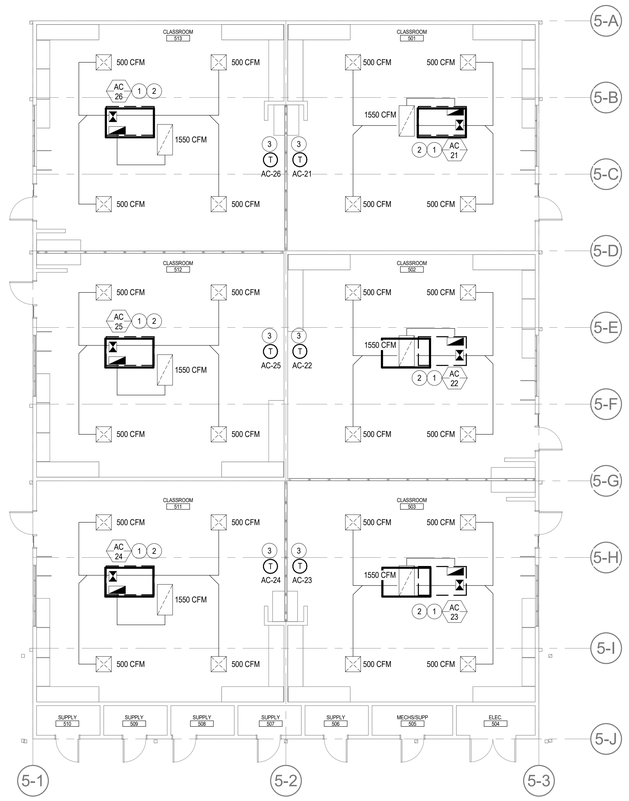
DATE 12.29.2025
JOB # 2025014
SHEET # M2.05

12/23/2025 6:06:51 PM



2 M2.06 MECHANICAL - BLDG 600 - FLOOR PLAN

SCALE: 1/8" = 1'-0"



1 M2.06 MECHANICAL - BLDG 500 - FLOOR PLAN

SCALE: 1/8" = 1'-0"

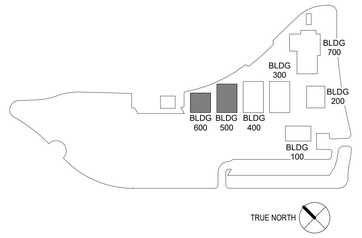
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3. AT COMPLETION OF PROJECT, RE-BALANCE ALL DIFFUSERS/GRILLES TO THE CFM'S INDICATED.

FLOOR PLAN KEYNOTES

1. NEW ROOFTOP UNIT ON ROOF, OUTLINE SHOWN FOR LOCATION REFERENCE.
2. RE-CONNECT TO EXISTING DUCT DROPS. SEE PLUMBING DRAWINGS FOR RE-CONNECTION TO CONDENSATE AND GAS PIPING.
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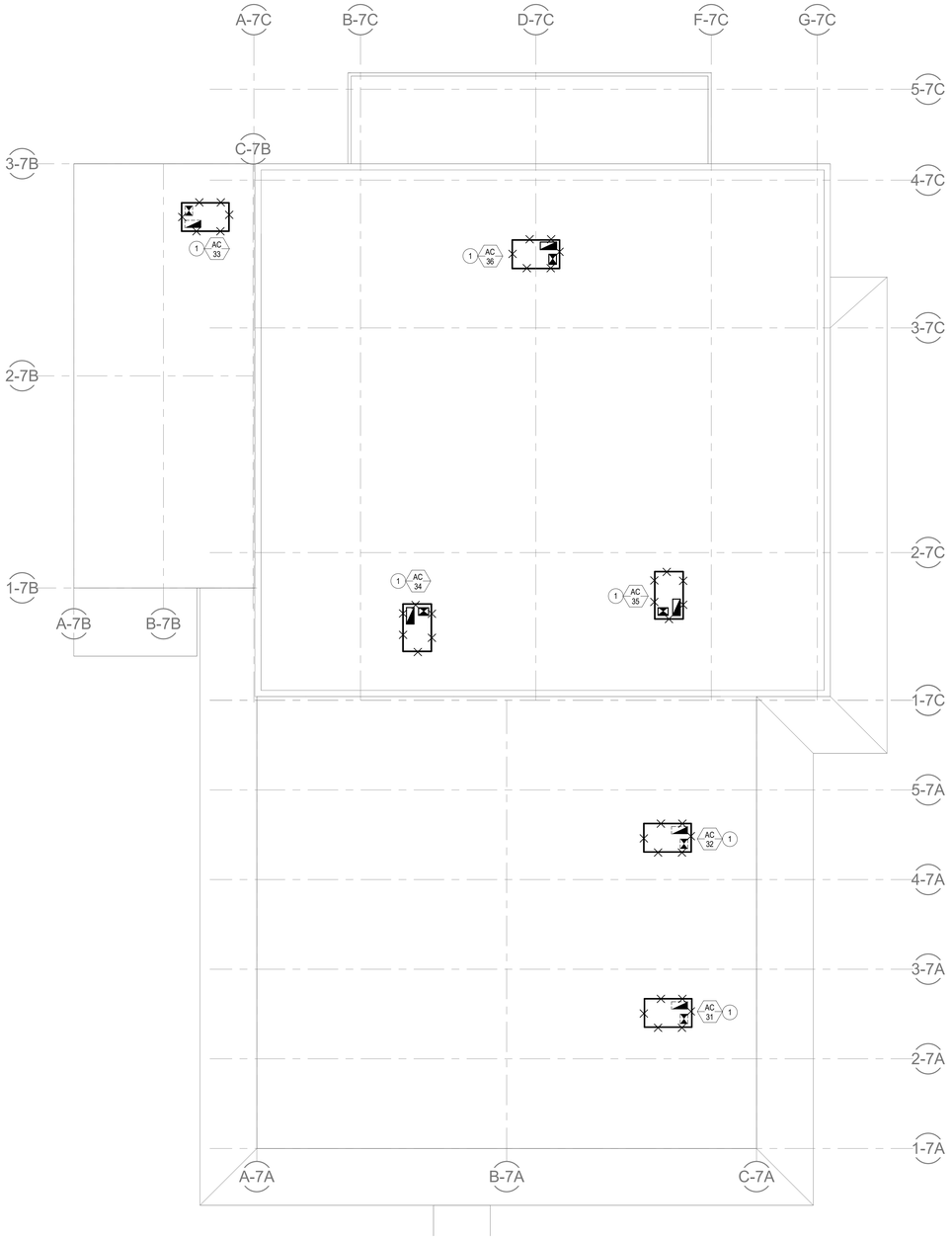
MECHANICAL FLOOR PLAN - BLDG 500 & 600

DATE 12.29.2025

JOB # 2025014

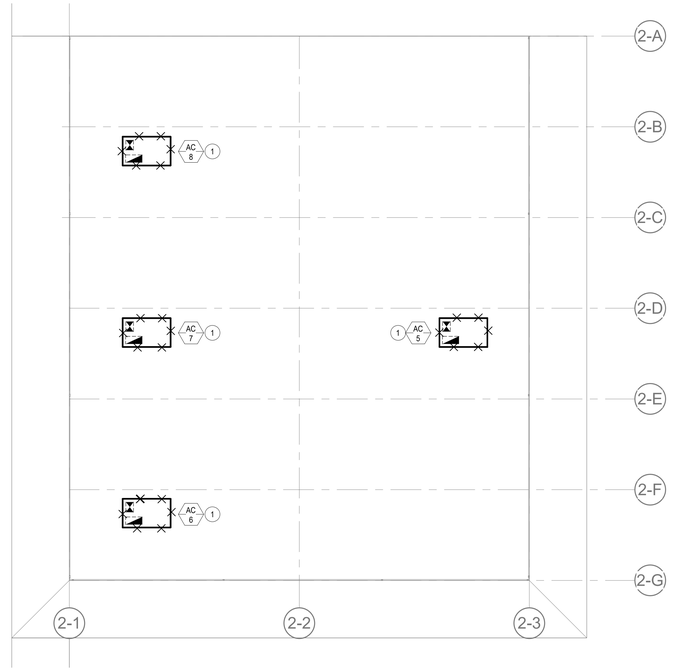
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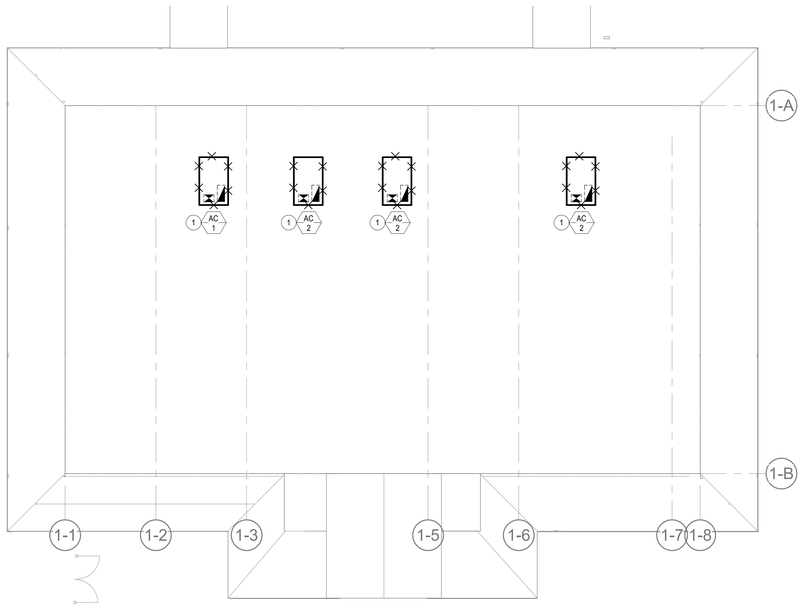
3 M5.01 MECHANICAL - BLDG 700 - DEMOLITION ROOF PLAN

SCALE: 1/8" = 1'-0"



2 M5.01 MECHANICAL - BLDG 200 - DEMOLITION ROOF PLAN

SCALE: 1/8" = 1'-0"



1 M5.01 MECHANICAL - BLDG 100 - DEMOLITION ROOF PLAN

SCALE: 1/8" = 1'-0"

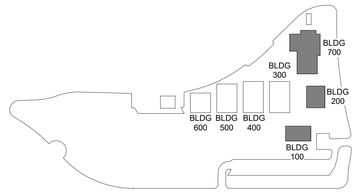
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DEMOLITION ROOF PLAN KEYNOTES

1 EXISTING ROOFTOP PACKAGE UNIT TO BE REMOVED. EXISTING GAS AND CONDENSATE PIPING TO BE CAPPED FOR FUTURE CONNECTION.

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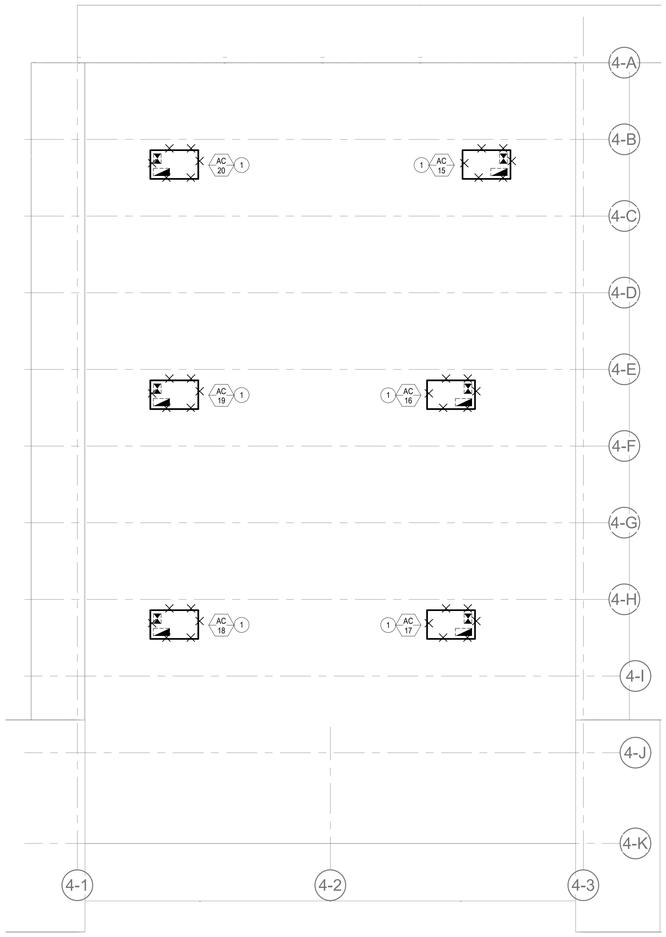
MECHANICAL DEMOLITION ROOF PLANS - BLDG 100, 200 & 700

DATE 12.29.2025

JOB # 2025014

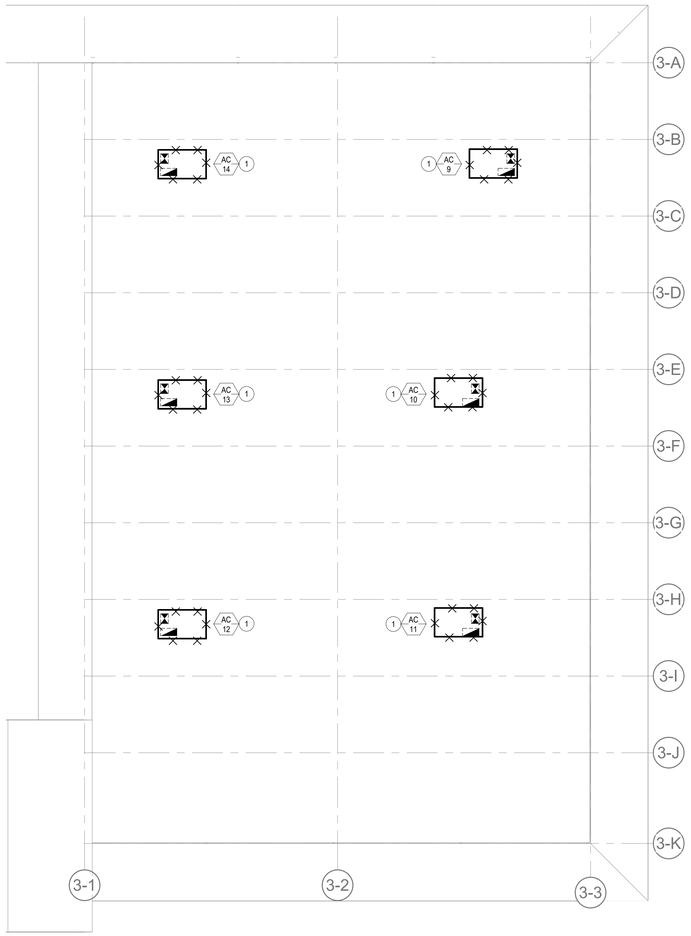
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2 M5.02 MECHANICAL - BLDG 400 - DEMOLITION ROOF PLAN

SCALE: 1/8" = 1'-0"



1 M5.02 MECHANICAL - BLDG 300 - DEMOLITION ROOF PLAN

SCALE: 1/8" = 1'-0"

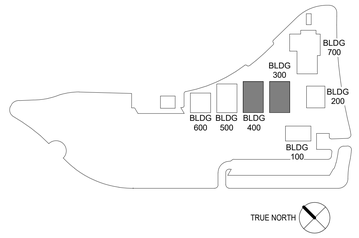
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DEMOLITION ROOF PLAN KEYNOTES

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MECHANICAL DEMOLITION ROOF PLANS - BLDG 300 - 400

DATE 12.29.2025

JOB # 2025014

SHEET # M5.02

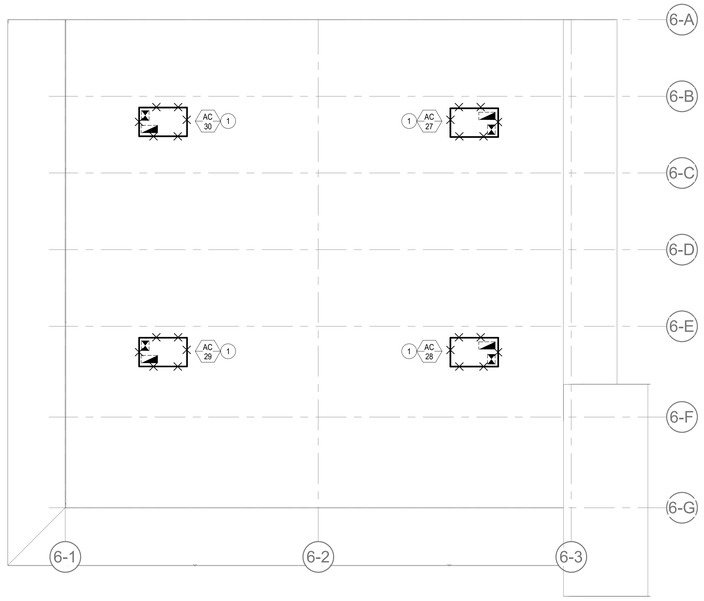
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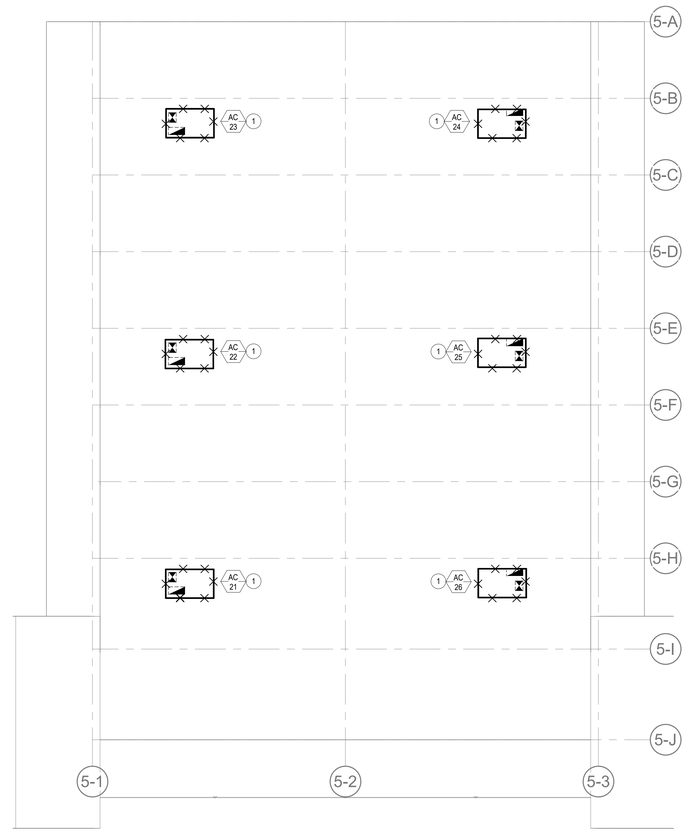
DEMOLITION ROOF PLAN KEYNOTES

(1) EXISTING ROOFTOP PACKAGE UNIT TO BE REMOVED. EXISTING GAS AND CONDENSATE PIPING TO BE CAPPED FOR FUTURE CONNECTION.



2 M5.03 MECHANICAL - BLDG 600 - DEMOLITION ROOF PLAN

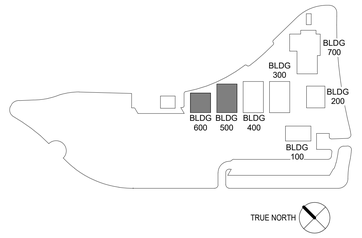
SCALE: 1/8" = 1'-0"



1 M5.03 MECHANICAL - BLDG 500 - DEMOLITION ROOF PLAN

SCALE: 1/8" = 1'-0"

KEYPLAN



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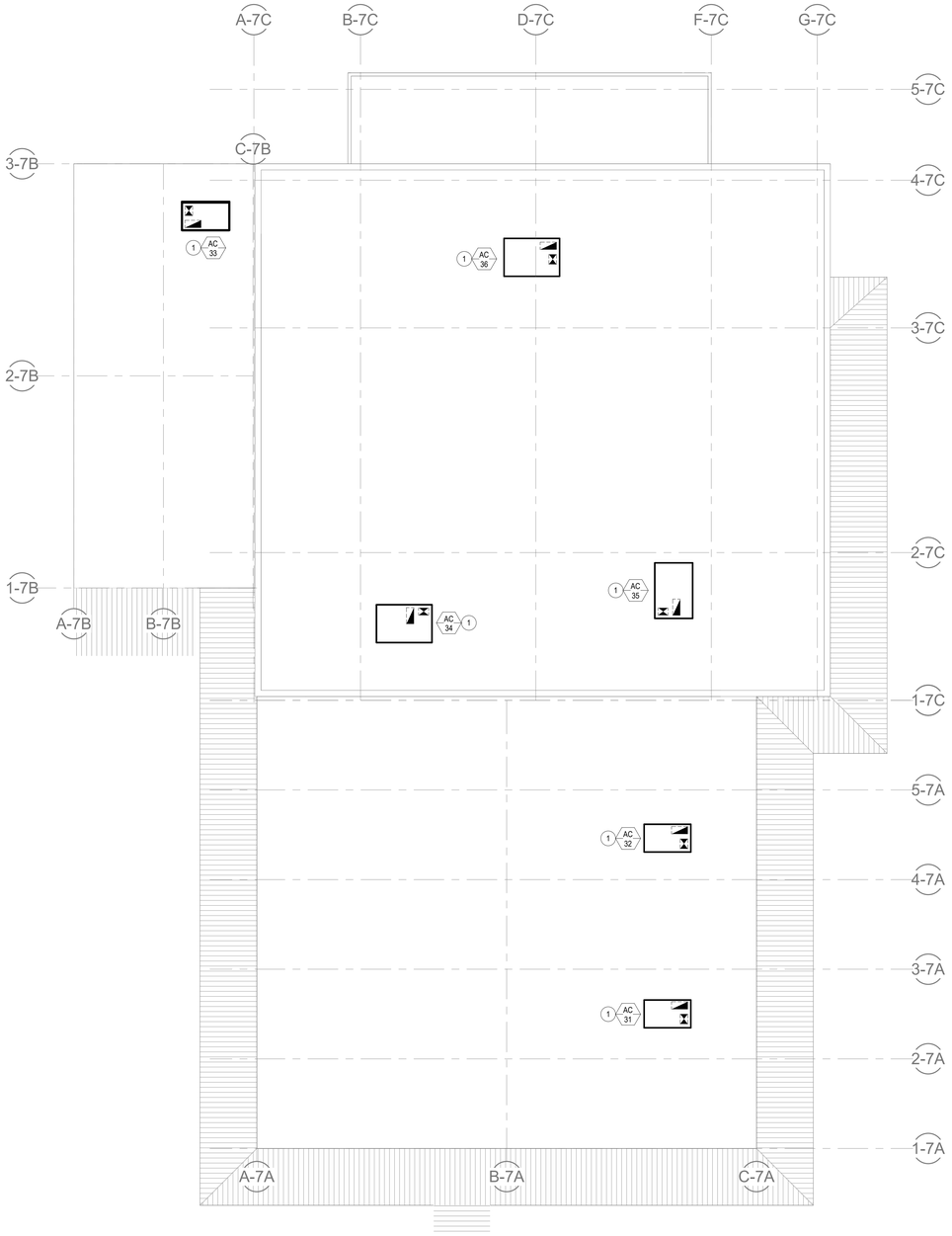
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DATE 12.29.2025

JOB # 2025014

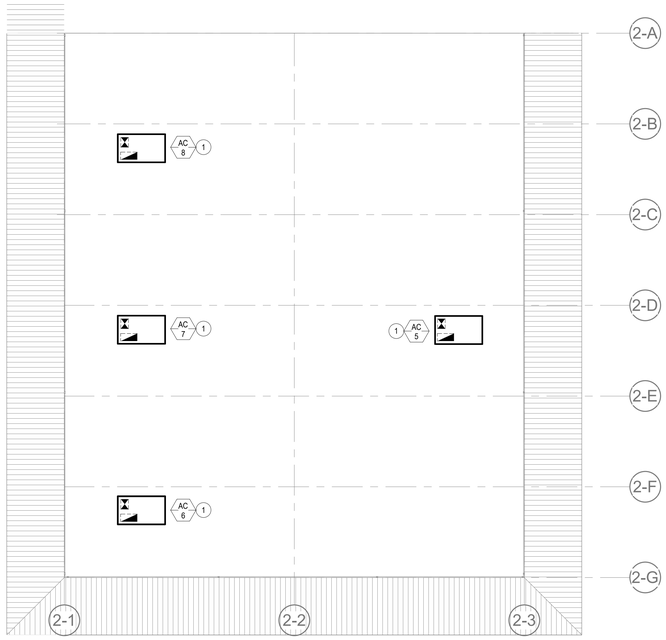
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3 M5.04 MECHANICAL - BLDG 700 - ROOF PLAN

SCALE: 1/8" = 1'-0"



2 M5.04 MECHANICAL - BLDG 200 - ROOF PLAN

SCALE: 1/8" = 1'-0"



1 M5.04 MECHANICAL - BLDG 100 - ROOF PLAN

SCALE: 1/8" = 1'-0"

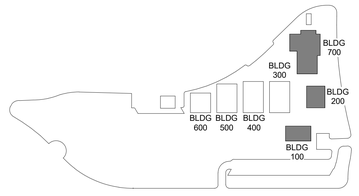
GENERAL SHEET NOTES

1. COORDINATE OUTSIDE AIR INTAKE LOCATIONS WITH PLUMBING VENT(S) THRU ROOF, EXHAUST FAN DISCHARGE(S), ETC. TO MAINTAIN A MINIMUM 10'-0" CLEARANCE, TYPICAL.

ROOF PLAN KEYNOTES

1 INSTALL NEW ROOFTOP UNIT. RE-CONNECT TO EXISTING DUCTWORK, USE EXISTING CURB. SEE PLUMBING DRAWINGS FOR GAS, AND CONDENSATE PIPING RE-CONNECTION.

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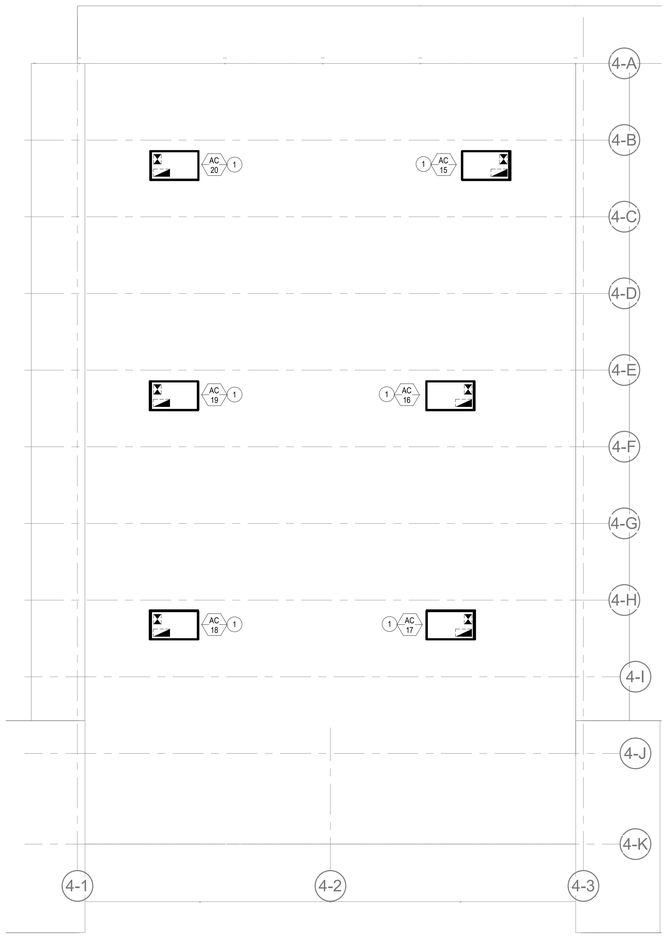
MECHANICAL ROOF PLANS - BLDG 100, 200 & 700

DATE 12.29.2025

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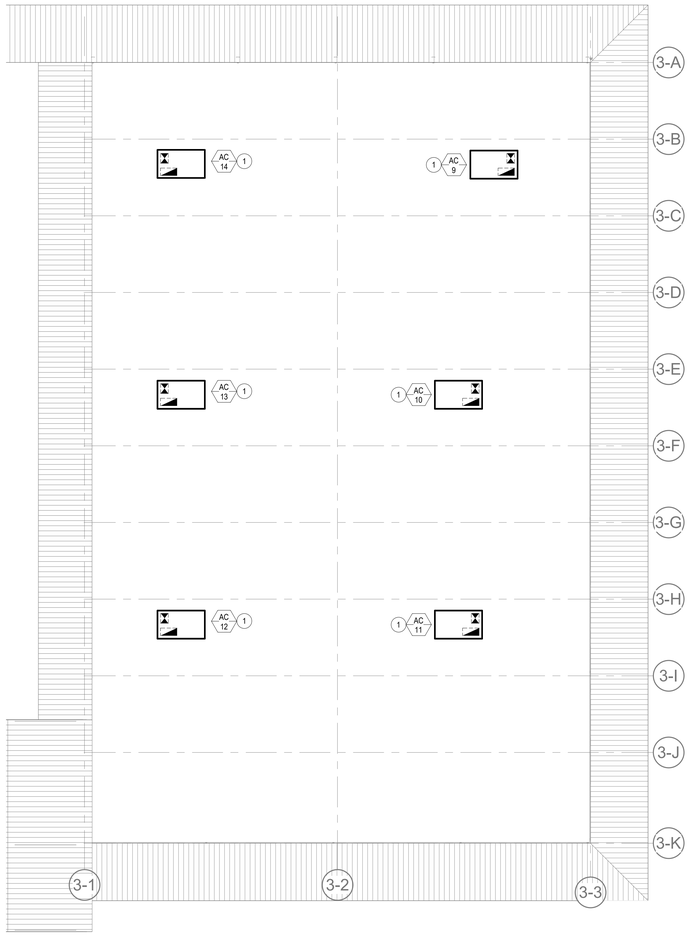
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2 M5.05 MECHANICAL - BLDG 400 - ROOF PLAN

SCALE: 1/8" = 1'-0"



1 M5.05 MECHANICAL - BLDG 300 - ROOF PLAN

SCALE: 1/8" = 1'-0"

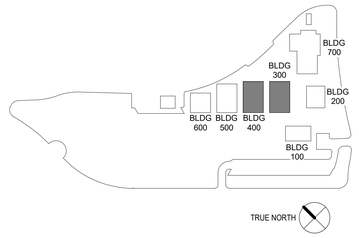
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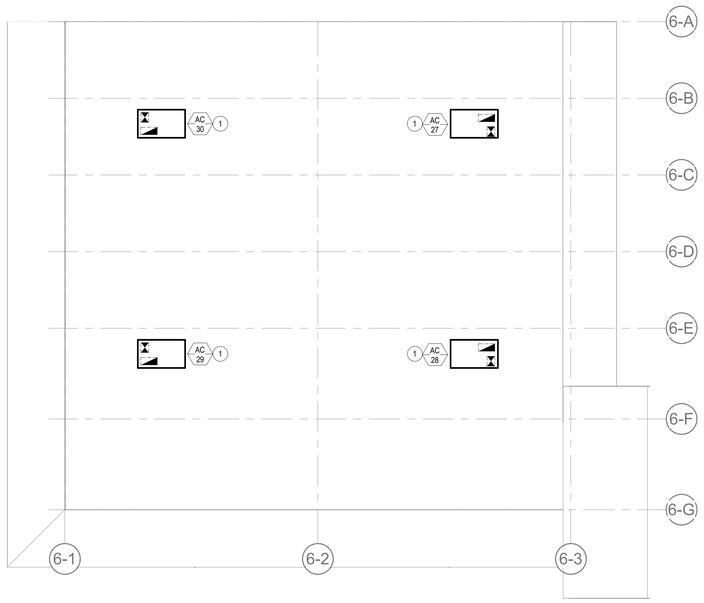
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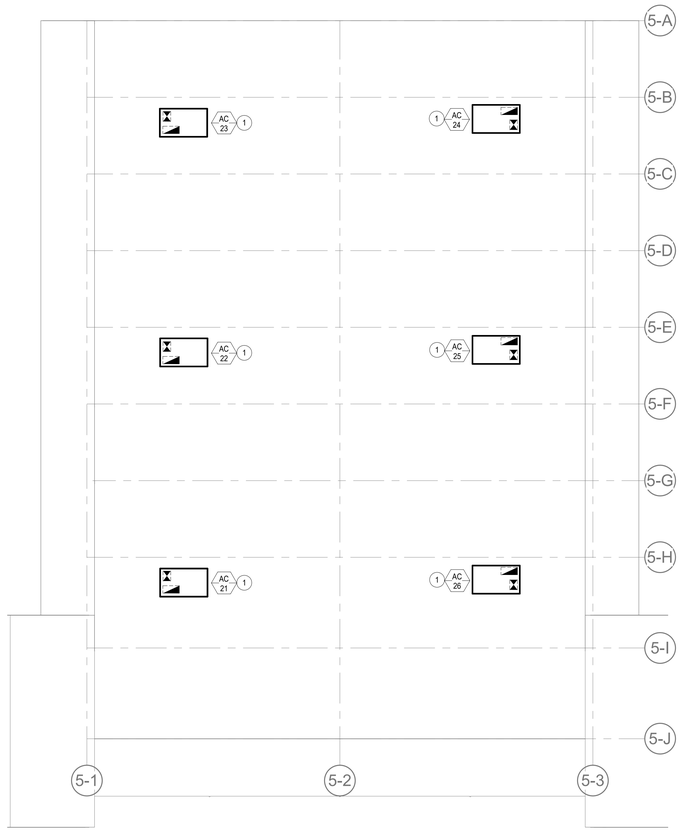
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2 M5.06 MECHANICAL - BLDG 600 - ROOF PLAN

SCALE: 1/8" = 1'-0"



1 M5.06 MECHANICAL - BLDG 500 - ROOF PLAN

SCALE: 1/8" = 1'-0"

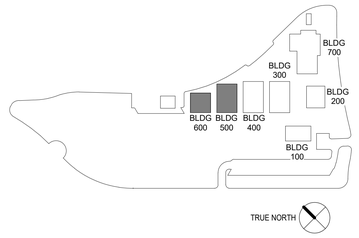
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SHEET # M5.06

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PACKAGED AC UNIT WITH ECONOMIZER, POWER EXHAUST

1. SYSTEM OVERVIEW

a. EACH AC UNIT WILL BE DIRECTLY CONTROLLED BY ITS OWN DEDICATED EMS (ENERGY MANAGEMENT SYSTEM) UNITARY CONTROLLER.
b. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED ELECTRONIC ZONE TEMPERATURE SENSOR WITH INTEGRAL RELATIVE HUMIDITY SENSOR AND CO2 SENSOR.
c. ELECTRONIC ZONE TEMPERATURE SENSOR SHALL HAVE A TOUCH SCREEN LCD INTERFACE WHICH INCLUDES: 1) DIGITAL PUSHBUTTONS FOR WARMER/COOLER SETPOINT CONTROL; 2) VISUAL DISPLAY OF ROOM TEMPERATURE, ROOM HUMIDITY, ROOM CO2 AND AMBIENT OSA TEMPERATURE; AND 3) DIGITAL PUSHBUTTON AFTER-HOURS OVERRIDE TIMER CONTROL, WITH USER ADJUSTABLE DURATION. THE AFTER-HOURS OVERRIDE DURATION SHALL HAVE THE ABILITY TO BE LIMITED FROM THE FRONT-END.

2. OCCUPANCY/VACANCY MONITORING

a. ZONE OCCUPANCY AND VACANCY WILL BE ACTIVELY MONITORED BY CONNECTION TO LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR(S). IF AVAILABLE, MONITORING SHALL BE ACCOMPLISHED VIA BACNET SYSTEM INTEGRATION. OTHERWISE, BAS CONTRACTOR SHALL MONITOR AUXILIARY CONTACTS ON LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR(S).

3. UNIT FAN OPERATION

a. WHEN THE ZONE IS IN OCCUPIED MODE OR IN AFTERHOURS MODE, THE FAN SHALL RUN CONTINUOUSLY, UNLESS VACANT MODE HAS BEEN TRIGGERED.
b. DURING THE UNOCCUPIED MODE AS DETERMINED BY EMS TIME SCHEDULE, THE UNIT FAN CYCLES WITH DEMAND AND THE TEMPERATURE IS CONTROLLED BY THE UNOCCUPIED SPACE TEMPERATURE HEATING AND COOLING SETPOINTS.

4. MINIMUM OUTDOOR AIR VENTILATION

a. DURING OCCUPIED MODE OR AFTERHOURS MODE, THE ECONOMIZER DAMPER SHALL BE COMMANDED BY THE EMS UNITARY CONTROLLER TO MAINTAIN A POSITION WHICH SATISFIES THE MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS FOR THE ZONE. DAMPER POSITION(S) DETERMINED BY AIR BALANCING CONTRACTOR.

5. AUTOMATIC DEMAND REDUCTION CONTROLS

e. 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. VACANT MODE CONTROL

a. WHEN THE ZONE HAS BEEN SCHEDULED FOR OCCUPANCY FOR AT LEAST ONE HOUR AND THE OCCUPANCY SENSOR HAS CONFIRMED THAT ZONE HAS BEEN VACANT FOR 5 MINUTES (ADJUSTABLE: MAXIMUM 30 MINUTES), ZONE SHALL BE PLACED INTO VACANT MODE.
b. RESET COOLING AND HEATING SETPOINTS UP AND DOWN BY 2°F (ADJUSTABLE) OR MORE.
c. MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS IN THE ZONE NEED ONLY BE MAINTAINED 15 MINUTES OUT OF EVERY 60 MINUTES WHILE THE ZONE IS IN VACANT MODE.
d. UPON DETECTION OF OCCUPANCY, VACANT MODE SHALL BE CLEARED.

7. 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.

8. HEATING OPERATION

a. THE CONTROLLER COMPARES THE HEATING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-HEATING CONTROL SIGNAL TO STAGE A GAS REGULATING VALVE ON THE UNIT.
b. ECONOMIZER TO BE COMMANDED TO MIN CFM SETPOINT AND MECHANICAL COOLING TO BE LOCKED OUT DURING HEATING MODE.

9. COOLING OPERATION

a. THE CONTROLLER COMPARES THE COOLING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-COOLING SIGNAL.
b. THE FIRST STAGE OF COOLING WILL ENABLE THE ECONOMIZER TO PROVIDE FREE COOLING FOR AS LONG AS POSSIBLE.
c. THE SECOND STAGE WILL ENABLE THE COMPRESSOR(S) TO MAINTAIN THE ROOM SET POINT.
d. MECHANICAL HEATING TO BE LOCKED OUT DURING COOLING MODE.

10. POWER EXHAUST

a. ALL POWER EXHAUST FAN OPERATIONS SHALL BE CONTROLLED BY SEPARATE NON-EMS EXTERNAL DEVICES AS PROVIDED BY THE AC UNIT MANUFACTURER.

11. SMOKE DETECTOR

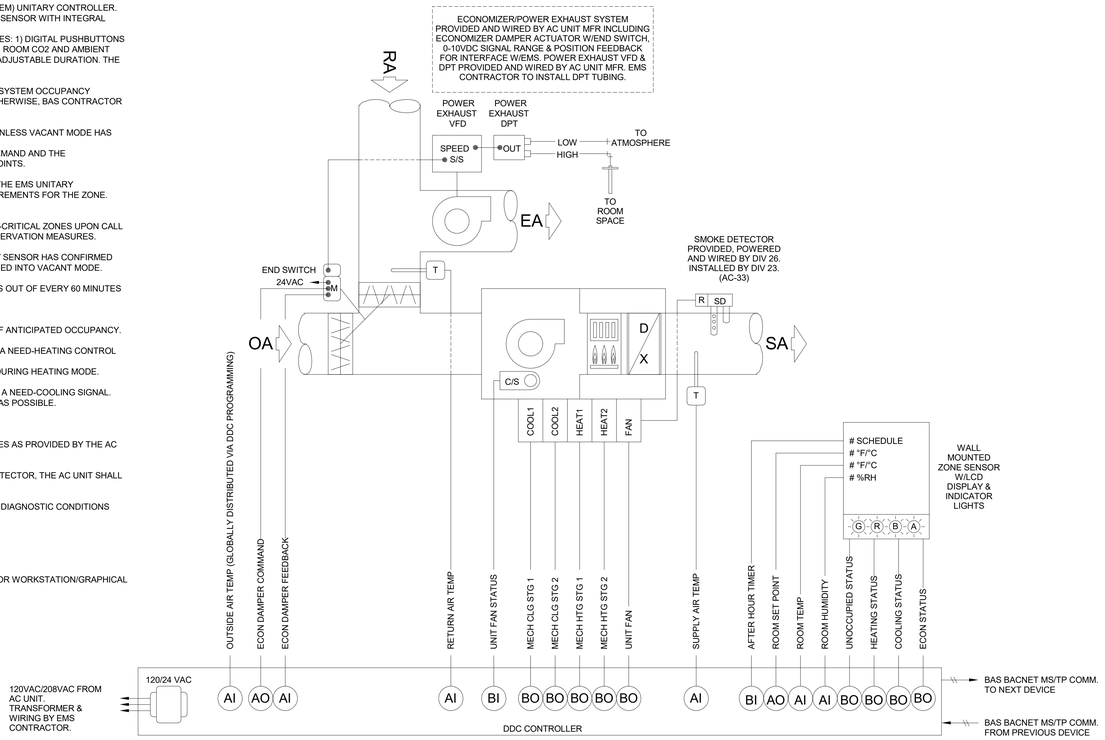
a. WHEN PARTICLES OF COMBUSTION ARE DETECTED IN THE SUPPLY AIR STREAM BY THE AC UNIT SMOKE DETECTOR, THE AC UNIT SHALL SHUT DOWN VIA HARDWIRE INTERLOCK.

12. FAULT DETECTION DIAGNOSTICS

a. THE EMS DDC CONTROLLER SHALL MONITOR THE FOLLOWING ECONOMIZER ACTUATOR FAULT DETECTION DIAGNOSTIC CONDITIONS AND BROADCAST RESULTS VIA EMS NETWORK:
i. TEMPERATURE SENSOR FAILURE/FAULT
ii. ECONOMIZER NOT ECONOMIZING WHEN ENABLED
iii. ECONOMIZER ECONOMIZING WHEN DISABLED
iv. ECONOMIZER DAMPER MODULATION FAILURE
v. EXCESS OUTDOOR AIR

13. MONITORING - THE FOLLOWING CONDITIONS SHALL BE MONITORED AND DISPLAYED AT EMS OPERATOR WORKSTATION/GRAPHICAL USER INTERFACE:

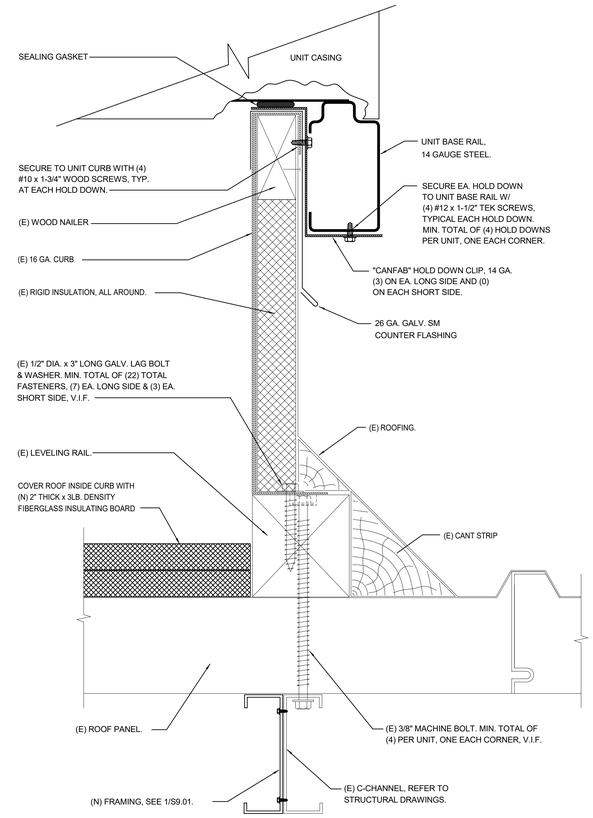
a. SUPPLY AIR TEMPERATURE.
b. ROOM TEMPERATURE.
c. ROOM HUMIDITY.
d. ROOM OCCUPANCY STATUS.
e. CURRENT MODE (HEATING/COOLING/FAN).
f. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN HEATING.
g. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN COOLING.
h. CURRENT COMMAND STATUS OF FAN, ECONOMIZER, COMPRESSOR AND GAS VALVE.
i. RUN TIME METERS ON FAN, COMPRESSOR, AND HEAT.
j. FAN STATUS THRU CURRENT SWITCH.
k. ECONOMIZER ACTUATOR FEEDBACK STATUS.



PACKAGED ROOFTOP AC UNIT CONTROL DIAGRAM

SCALE : NONE

2
M6.01



AC UNIT TO (E) CURB MOUNTING

SCALE : NONE

1
M6.01

PACKAGED AC UNIT WITH ECONOMIZER, POWER EXHAUST, DEMAND CONTROL VENTILATION

1. SYSTEM OVERVIEW

a. EACH AC UNIT WILL BE DIRECTLY CONTROLLED BY ITS OWN DEDICATED EMS (ENERGY MANAGEMENT SYSTEM) UNITARY CONTROLLER.
b. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED ELECTRONIC ZONE TEMPERATURE SENSOR WITH INTEGRAL RELATIVE HUMIDITY SENSOR AND CO2 SENSOR.
c. ELECTRONIC ZONE TEMPERATURE SENSOR SHALL HAVE A TOUCH SCREEN LCD INTERFACE WHICH INCLUDES: 1) DIGITAL PUSHBUTTONS FOR WARMER/COOLER SETPOINT CONTROL; 2) VISUAL DISPLAY OF ROOM TEMPERATURE, ROOM HUMIDITY, ROOM CO2 AND AMBIENT OSA TEMPERATURE; AND 3) DIGITAL PUSHBUTTON AFTER-HOURS OVERRIDE TIMER CONTROL, WITH USER ADJUSTABLE DURATION. THE AFTER-HOURS OVERRIDE DURATION SHALL HAVE THE ABILITY TO BE LIMITED FROM THE FRONT-END.

2. OCCUPANCY/VACANCY MONITORING

a. ZONE OCCUPANCY AND VACANCY WILL BE ACTIVELY MONITORED BY CONNECTION TO LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR(S). IF AVAILABLE, MONITORING SHALL BE ACCOMPLISHED VIA BACNET SYSTEM INTEGRATION. OTHERWISE, BAS CONTRACTOR SHALL MONITOR AUXILIARY CONTACTS ON LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR(S).

3. UNIT FAN OPERATION

a. WHEN THE ZONE IS IN OCCUPIED MODE OR IN AFTERHOURS MODE, THE FAN SHALL RUN CONTINUOUSLY, UNLESS VACANT MODE HAS BEEN TRIGGERED.
b. DURING THE UNOCCUPIED MODE AS DETERMINED BY EMS TIME SCHEDULE, THE UNIT FAN CYCLES WITH DEMAND AND THE TEMPERATURE IS CONTROLLED BY THE UNOCCUPIED SPACE TEMPERATURE HEATING AND COOLING SETPOINTS.

4. MINIMUM OUTDOOR AIR VENTILATION

a. DURING OCCUPIED MODE OR AFTERHOURS MODE, THE ECONOMIZER DAMPER SHALL BE COMMANDED BY THE EMS UNITARY CONTROLLER TO MAINTAIN A POSITION WHICH SATISFIES THE MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS FOR THE ZONE. DAMPER POSITION(S) DETERMINED BY AIR BALANCING CONTRACTOR.

5. DEMAND CONTROL VENTILATION

a. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED CO2 SENSOR TO MONITOR ZONE CO2 CONCENTRATION.
b. WHEN THE CO2 LEVEL IN THE SPACE IS BELOW 1000 PPM (ADJ.), OUTSIDE AIR DAMPER SHALL BE SET TO THE "LOWER MIN." POSITION AS SCHEDULED ON SHEET M0.02. WHEN THE CO2 LEVEL IN THE SPACE IS ABOVE 1000 PPM (ADJ.), OUTSIDE AIR DAMPER SHALL BE SET TO THE "UPPER MIN." POSITION AS SCHEDULED. OUTSIDE DAMPER SHALL REMAIN AT THE "UPPER MIN." POSITION UNTIL CO2 LEVEL HAS DROPPED BELOW 1000 PPM (ADJ.), AND WILL THEN RETURN TO THE "LOWER MIN." POSITION.

6. 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.

7. VACANT MODE CONTROL

a. WHEN THE ZONE HAS BEEN SCHEDULED FOR OCCUPANCY FOR AT LEAST ONE HOUR AND THE OCCUPANCY SENSOR HAS CONFIRMED THAT ZONE HAS BEEN VACANT FOR 5 MINUTES (ADJUSTABLE: MAXIMUM 30 MINUTES), ZONE SHALL BE PLACED INTO VACANT MODE.
b. RESET COOLING AND HEATING SETPOINTS UP AND DOWN BY 2°F (ADJUSTABLE) OR MORE.
c. MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS IN THE ZONE NEED ONLY BE MAINTAINED 15 MINUTES OUT OF EVERY 60 MINUTES WHILE THE ZONE IS IN VACANT MODE.
d. UPON DETECTION OF OCCUPANCY, VACANT MODE SHALL BE CLEARED.

8. 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.

9. HEATING OPERATION

a. THE CONTROLLER COMPARES THE HEATING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-HEATING CONTROL SIGNAL TO STAGE A GAS REGULATING VALVE ON THE UNIT.
b. ECONOMIZER TO BE COMMANDED TO MIN CFM SETPOINT AND MECHANICAL COOLING TO BE LOCKED OUT DURING HEATING MODE.

10. COOLING OPERATION

a. THE CONTROLLER COMPARES THE COOLING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-COOLING SIGNAL.
b. THE FIRST STAGE OF COOLING WILL ENABLE THE ECONOMIZER TO PROVIDE FREE COOLING FOR AS LONG AS POSSIBLE.
c. THE SECOND STAGE WILL ENABLE THE COMPRESSOR(S) TO MAINTAIN THE ROOM SET POINT.
d. MECHANICAL HEATING TO BE LOCKED OUT DURING COOLING MODE.

11. POWER EXHAUST

a. ALL POWER EXHAUST FAN OPERATIONS SHALL BE CONTROLLED BY SEPARATE NON-EMS EXTERNAL DEVICES AS PROVIDED BY THE AC UNIT MANUFACTURER.

12. SMOKE DETECTOR

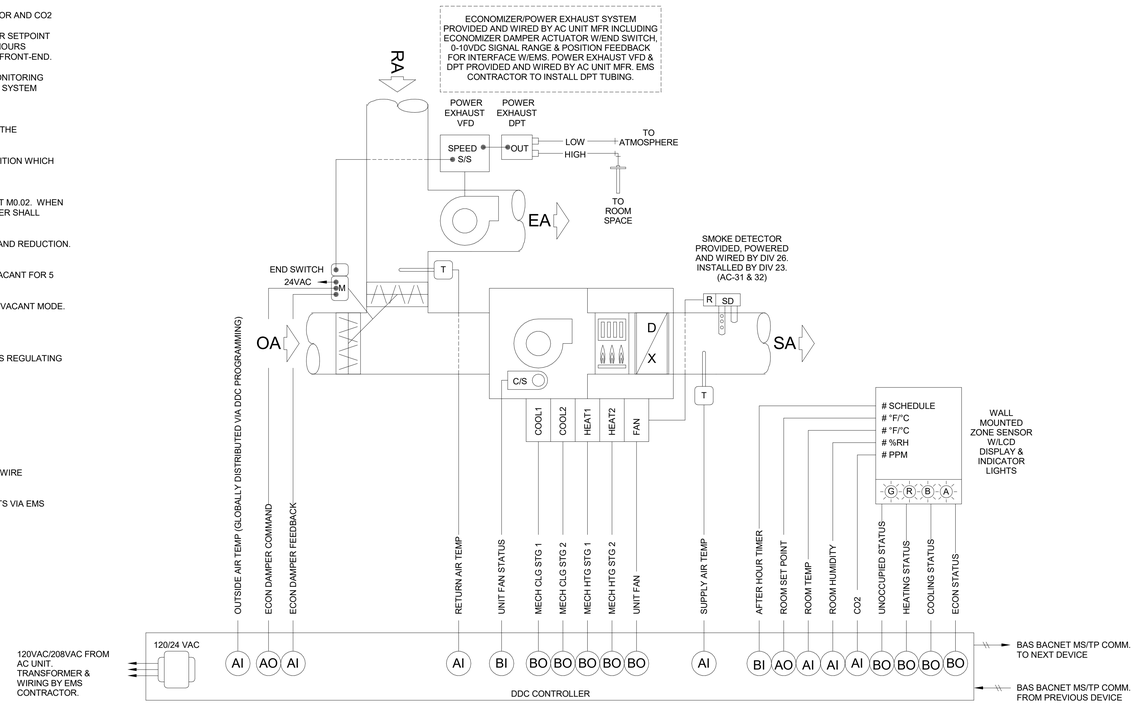
a. WHEN PARTICLES OF COMBUSTION ARE DETECTED IN THE SUPPLY AIR STREAM BY THE AC UNIT SMOKE DETECTOR, THE AC UNIT SHALL SHUT DOWN VIA HARDWIRE INTERLOCK.

13. FAULT DETECTION DIAGNOSTICS

a. THE EMS DDC CONTROLLER SHALL MONITOR THE FOLLOWING ECONOMIZER ACTUATOR FAULT DETECTION DIAGNOSTIC CONDITIONS AND BROADCAST RESULTS VIA EMS NETWORK:
i. TEMPERATURE SENSOR FAILURE/FAULT
ii. ECONOMIZER NOT ECONOMIZING WHEN ENABLED
iii. ECONOMIZER ECONOMIZING WHEN DISABLED
iv. ECONOMIZER DAMPER MODULATION FAILURE
v. EXCESS OUTDOOR AIR

13. MONITORING - THE FOLLOWING CONDITIONS SHALL BE MONITORED AND DISPLAYED AT EMS OPERATOR WORKSTATION/GRAPHICAL USER INTERFACE:

a. SUPPLY AIR TEMPERATURE.
b. ROOM TEMPERATURE.
c. ROOM HUMIDITY.
d. ROOM CO2 CONCENTRATION.
e. ROOM OCCUPANCY STATUS.
f. CURRENT MODE (HEATING/COOLING/FAN).
g. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN HEATING.
h. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN COOLING.
i. CURRENT COMMAND STATUS OF FAN, ECONOMIZER, COMPRESSOR AND GAS VALVE.
j. RUN TIME METERS ON FAN, COMPRESSOR, AND HEAT.
k. FAN STATUS THRU CURRENT SWITCH.
l. ECONOMIZER ACTUATOR FEEDBACK STATUS.



PACKAGED ROOFTOP AC UNIT W/ DCV CONTROL DIAGRAM

SCALE : NONE

3
M6.01

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fax: (408)-300-5121

PROJECT

LEDESMA ES MODERNIZATION

Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - ED/G/LY 250163.00
PM - DESIGN TEAM PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER RYAN CELAYA M 34234 EXPIRES 12/31/26 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED:

STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

MECHANICAL DETAILS & CONTROLS

DATE 12.29.2025

JOB # 2025014

SHEET # M6.01

12/23/2025 6:06:57 PM

SINGLE ZONE VAV PACKAGED AC UNIT WITH ECONOMIZER, SMOKE DETECTOR, POWER EXHAUST, DEMAND CONTROL VENTILATION, ZONE OCCUPANCY MONITORING & DOOR/WINDOW SWITCHES

1. SYSTEM OVERVIEW

a. EACH AC UNIT WILL BE DIRECTLY CONTROLLED BY ITS OWN DEDICATED EMS (ENERGY MANAGEMENT SYSTEM) UNITARY CONTROLLER.
b. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED ELECTRONIC ZONE TEMPERATURE SENSOR WITH INTEGRAL RELATIVE HUMIDITY SENSOR AND CO2 SENSOR.
c. ELECTRONIC ZONE TEMPERATURE SENSOR SHALL HAVE A TOUCH SCREEN LCD INTERFACE WHICH INCLUDES: 1) DIGITAL PUSHBUTTONS FOR WARMER/COOLER SETPOINT CONTROL; 2) VISUAL DISPLAY OF ROOM TEMPERATURE, ROOM HUMIDITY, ROOM CO2 AND AMBIENT OSA TEMPERATURE; AND 3) DIGITAL PUSHBUTTON AFTER-HOURS OVERRIDE TIMER CONTROL, WITH USER ADJUSTABLE DURATION. THE AFTER-HOURS OVERRIDE DURATION SHALL HAVE THE ABILITY TO BE LIMITED FROM THE FRONT-END.

2. OCCUPANCY/VACANCY MONITORING

a. ZONE OCCUPANCY AND VACANCY WILL BE ACTIVELY MONITORED BY CONNECTION TO LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR(S). IF AVAILABLE, MONITORING SHALL BE ACCOMPLISHED VIA BACNET SYSTEM INTEGRATION. OTHERWISE, BAS CONTRACTOR SHALL MONITOR AUXILIARY CONTACTS ON LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR(S).

3. UNIT FAN OPERATION

a. WHEN THE ZONE IS IN OCCUPIED MODE OR IN AFTERHOURS MODE, THE FAN SHALL RUN CONTINUOUSLY, UNLESS VACANT MODE HAS BEEN TRIGGERED.
b. DURING THE UNOCCUPIED MODE AS DETERMINED BY EMS TIME SCHEDULE, THE UNIT FAN CYCLES WITH DEMAND AND THE TEMPERATURE IS CONTROLLED BY THE UNOCCUPIED SPACE TEMPERATURE HEATING AND COOLING SETPOINTS.

4. MINIMUM OUTDOOR AIR VENTILATION

a. DURING OCCUPIED MODE OR AFTERHOURS MODE, THE ECONOMIZER DAMPER AND SUPPLY FAN VFD SHALL BE COMMANDED BY THE EMS UNITARY CONTROLLER TO MAINTAIN POSITIONS WHICH SATISFY THE MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS FOR THE ZONE. WHEN SUPPLY FAN SPEED IS AT LESS THAN 100%, THE EMS UNITARY CONTROLLER SHALL MODULATE THE ECONOMIZER DAMPER OPEN FURTHER, SO AS TO MAINTAIN MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS. TAB AND TCC CONTRACTORS SHALL WORK IN CONCERT TO DETERMINE THE FOLLOWING MINIMUM OUTSIDE AIR DAMPER POSITION SETTINGS, AS SCHEDULED BELOW:
i. LOWER OSA CFM AT LOW SUPPLY FAN SPEED.
ii. LOWER OSA CFM AT HIGH SUPPLY FAN SPEED.
iii. UPPER OSA CFM AT LOW SUPPLY FAN SPEED.
iij. UPPER OSA CFM AT HIGH SUPPLY FAN SPEED.

5. DEMAND CONTROL VENTILATION

a. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED CO2 SENSOR TO MONITOR ZONE CO2 CONCENTRATION.
b. WHEN THE CO2 LEVEL IN THE SPACE IS BELOW 1000 PPM (ADJ.), OUTSIDE AIR DAMPER SHALL BE SET TO THE "LOWER MIN." POSITION AS SCHEDULED ON SHEET M0.02. WHEN THE CO2 LEVEL IN THE SPACE IS ABOVE 1000 PPM (ADJ.), OUTSIDE AIR DAMPER SHALL BE SET TO THE "UPPER MIN." POSITION AS SCHEDULED. OUTSIDE DAMPER SHALL REMAIN AT THE "UPPER MIN." POSITION UNTIL CO2 LEVEL HAS DROPPED BELOW 1000 PPM (ADJ.), AND WILL THEN RETURN TO THE "LOWER MIN." POSITION.

6. 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.

7. VACANT MODE CONTROL

a. WHEN THE ZONE HAS BEEN SCHEDULED FOR OCCUPANCY FOR AT LEAST ONE HOUR AND THE OCCUPANCY SENSOR HAS CONFIRMED THAT ZONE HAS BEEN VACANT FOR 5 MINUTES (ADJUSTABLE: MAXIMUM 30 MINUTES), ZONE SHALL BE PLACED INTO VACANT MODE.
b. RESET COOLING AND HEATING SETPOINTS UP AND DOWN BY 2°F (ADJUSTABLE) OR MORE.
c. MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS IN THE ZONE NEED ONLY BE MAINTAINED 15 MINUTES OUT OF EVERY 60 MINUTES WHILE THE ZONE IS IN VACANT MODE.
d. UPON DETECTION OF OCCUPANCY, VACANT MODE SHALL BE CLEARED.

8. 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.

9. HEATING OPERATION

a. THE CONTROLLER COMPARES THE HEATING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-HEATING CONTROL SIGNAL TO STAGE A GAS REGULATING VALVE ON THE UNIT.
b. DURING HEATING MODE, RESET THE SUPPLY FAN VFD SPEED TO LOWEST POSSIBLE VALUE IN ORDER TO MAINTAIN SPACE TEMPERATURE SETPOINT.
c. ECONOMIZER TO BE COMMANDED TO MIN CFM SETPOINT AND MECHANICAL COOLING TO BE LOCKED OUT DURING HEATING MODE.
d. HEATING OPERATION NOT ALLOWED IF DOOR/WINDOW SWITCHES INDICATE OPEN FOR MORE THAN 5 MINUTES (ADJUSTABLE).

10. COOLING OPERATION

a. THE CONTROLLER COMPARES THE COOLING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-COOLING SIGNAL.
b. DURING COOLING MODE, RESET THE SUPPLY FAN VFD SPEED TO LOWEST POSSIBLE VALUE IN ORDER TO MAINTAIN SPACE TEMPERATURE SETPOINT.
c. A CALL FOR COOLING SHALL ENABLE THE ECONOMIZER TO PROVIDE FREE COOLING FOR AS LONG AS POSSIBLE.
d. SHOULD ECONOMIZER NOT PROVIDE ADEQUATE COOLING CAPACITY, EMS UNITARY CONTROLLER WILL ENGAGE MECHANICAL COOLING. FIRST STAGE MECHANICAL COOLING CONSISTS OF A VARIABLE SPEED DIGITAL SCROLL COMPRESSOR.
e. IF FURTHER COOLING IS REQUIRED TO MEET DEMAND FOR COOLING AFTER DIGITAL SCROLL COMPRESSOR REACHES 100% CAPACITY, EMS UNITARY CONTROLLER WILL ENGAGE SECOND STAGE DX COMPRESSOR ACCORDINGLY.
f. MECHANICAL HEATING TO BE LOCKED OUT DURING COOLING MODE.
g. MECHANICAL COOLING OPERATION NOT ALLOWED IF DOOR/WINDOW SWITCHES INDICATE OPEN FOR MORE THAN 5 MINUTES (ADJUSTABLE).

11. POWER EXHAUST

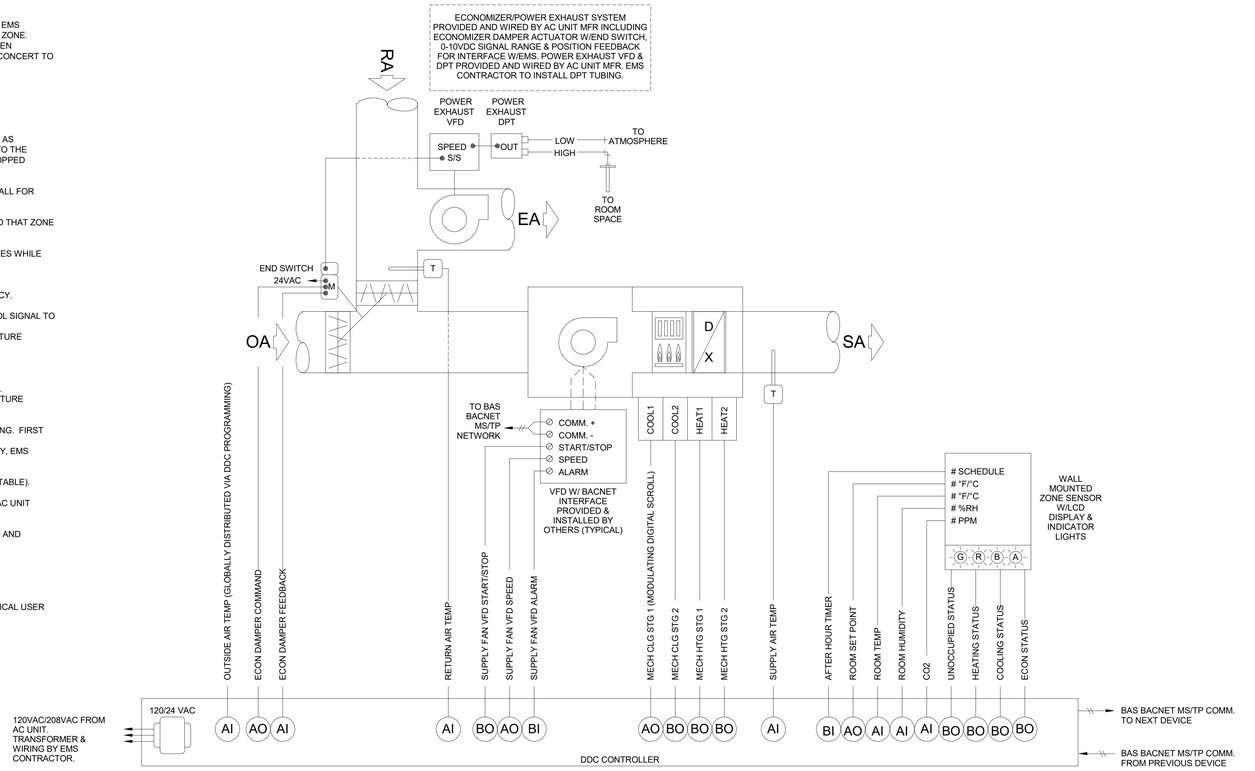
a. ALL POWER EXHAUST FAN OPERATIONS SHALL BE CONTROLLED BY SEPARATE NON-EMS EXTERNAL DEVICES AS PROVIDED BY THE AC UNIT MANUFACTURER.

12. FAULT DETECTION DIAGNOSTICS

a. THE EMS DDC CONTROLLER SHALL MONITOR THE FOLLOWING ECONOMIZER ACTUATOR FAULT DETECTION DIAGNOSTIC CONDITIONS AND BROADCAST RESULTS VIA EMS NETWORK:
i. TEMPERATURE SENSOR FAILURE/FAULT
ii. ECONOMIZER NOT ECONOMIZING WHEN ENABLED
iii. ECONOMIZER ECONOMIZING WHEN DISABLED
iv. ECONOMIZER DAMPER MODULATION FAILURE
v. EXCESS OUTDOOR AIR

13. MONITORING - THE FOLLOWING CONDITIONS SHALL BE MONITORED AND DISPLAYED AT EMS OPERATOR WORKSTATION/GRAPHICAL USER INTERFACE:

a. SUPPLY AIR TEMPERATURE.
b. ROOM TEMPERATURE.
c. ROOM HUMIDITY.
d. ROOM CO2 CONCENTRATION.
e. ROOM OCCUPANCY STATUS.
f. CURRENT MODE (HEATING/COOLING/FAN).
g. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN HEATING.
h. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN COOLING.
i. CURRENT COMMAND STATUS OF FAN, ECONOMIZER, COMPRESSOR AND GAS VALVE.
j. RUN TIME METERS ON FAN, COMPRESSOR, AND HEAT.
k. FAN STATUS THRU CURRENT SWITCH.
l. ECONOMIZER ACTUATOR FEEDBACK STATUS.



PACKAGED ROOFTOP AC UNIT W/ DCV CONTROL DIAGRAM

1
M6.02

SCALE : NONE

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PROJECT

LEDESMA ES MODERNIZATION

Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - ED/G/Y — PM - DESIGN TEAM
250163.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER
RYAN CELAYA
M 34234
EXPIRES 12/31/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED:

STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

MECHANICAL DETAILS & CONTROLS

DATE 12.29.2025
JOB # 2025014
SHEET # M6.02

12/23/2025 6:06:57 PM

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.

Project Name:	250163 Ledesma ES Modernization	**Report Page:**	**(Page 1 of 47)**
Project Address:	1001 Schoolhouse Rd, San Jose, CA 95138	**Date Prepared:**	2025-12-23T20:35:14-05:00

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	04	Total Conditioned Floor Area	39652
02	Climate Zone	4	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Office ● School or Classroom

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☐ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

G. PUMPS

This section does not apply to this project.

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4i	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q 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.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01 System Name	02 Quantity	03 System Serving	04 System Status	05 Space Type	06 Utilizing Recovered Heat
AC-1	1	Single zone	Alteration		☐
AC-5	1	Single zone	Alteration		☐
AC-6,7,8	3	Single zone	Alteration		☐
AC-9 thru AC-30	22	Single zone	Alteration		☐

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01 System Name	02 Quantity	03 System Serving	04 System Status	05 Space Type	06 Utilizing Recovered Heat
AC-31,32	2	Single zone	Alteration		☐
AC-33	1	Single zone	Alteration		☐
AC-34,35	2	Single zone	Alteration		☐
AC-36	1	Single zone	Alteration		☐
AC-2	1	Single zone	Alteration		☐
AC-3	1	Single zone	Alteration		☐
AC-4	1	Single zone	Alteration		☐

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output [2,3]			Cooling Output [2,3]		Load Calculations [3,4]	
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available [1] 140.4(a) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
AC-1	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	Yes				31.8	39.7		28
AC-5	Unitary AC/ Cond. (no elec. resistance)	AC, air-cooled pkg (3 phase)	Yes				42.9	52.7		40
AC-6,7,8	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	Yes				42.9	52.7		40
AC-9 thru AC-30	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	Yes				52.5	63.8		50
AC-31,32	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	Yes				64.5	78.1		60
AC-33	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	Yes				64.5	78.1		60
AC-34,35	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	Yes				108.7	130.4		105
AC-36	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	Yes				52.5	63.8		50
AC-2	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	Yes				42.9	52.7		40
AC-3	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	Yes				42.9	52.7		40
AC-4	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	Yes				42.9	52.7		40

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*
[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
AC-1	<65,000					SEER	14	17.2
AC-5	<65,000					SEER	14	17.2
AC-6,7,8	<65,000					SEER	14	17.2
AC-9 thru AC-30	<65,000					SEER	14	17.2
AC-31,32	>=65,000 and <135,000					EER IEER	11.2 14.8	11.2 15.5
AC-33	>=65,000 and <135,000					EER IEER	11.2 14.8	11.2 15.5
AC-34,35	>=65,000 and <135,000					EER IEER	11.2 14.8	12.1 17.5
AC-36	<65,000					SEER	14	17.2
AC-2	<65,000					SEER	14	17.2
AC-3	<65,000					SEER	14	17.2
AC-4	<65,000					SEER	14	17.2

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	AC-1	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,200	Site Elevation	80	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
AC-1	Supply	1	Air Blender	100		0.046	0.428	Manufacturer provided		0.44
			Economizer Return Damper	100		0.046				
			Gas heat	100		0.058				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
			Hydronic/DX cooling coil or heat pump coil	100		0.139				
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]		Fan System Electrical Input Power (kW)		0.44

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC-5	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	80	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
AC-5	Supply	1	Air Blender	100		0.046	0.428	Manufacturer provided		0.78
			Hydronic/DX cooling coil or heat pump coil	100		0.139				
			Economizer Return Damper	100		0.046				
			Gas heat	100		0.058				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]		Fan System Electrical Input Power (kW)		0.78

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC-6,7,8	Quantity	3	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	80	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
AC-6,7,8	Supply	1	Air Blender	100		0.046	0.428	Manufacturer provided		0.78
			Hydronic/DX cooling coil or heat pump coil	100		0.139				
			Economizer Return Damper	100		0.046				
			Gas heat	100		0.058				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]		Fan System Electrical Input Power (kW)		0.78

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC-9 THRU AC-30	Quantity	22	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,000	Site Elevation	80	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
AC-9 THRU AC-30	Supply	1	Air Blender	100		0.046	0.428	Manufacturer provided		0.94
			Hydronic/DX cooling coil or heat pump coil	100		0.139				
			Economizer Return Damper	100		0.046				
			Gas heat	100		0.058				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]		Fan System Electrical Input Power (kW)		0.95

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC-31,32	Quantity	2	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,400	Site Elevation	80	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
AC-31,32	Supply	1	Air Blender	100		0.046	0.428	Manufacturer provided		1.16
			Hydronic/DX cooling coil or heat pump coil	100		0.139				
			Economizer Return Damper	100		0.046				
			Gas heat	100		0.058				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
Supply Fan Base Allowance (watt/cfm)	0.232		Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)		0	Fan System Allowance (kW)[3]		1.58	Fan System Electrical Input Power (kW)	1.16

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC-33	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,400	Site Elevation	80	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
AC-33	Supply	1	Air Blender	100		0.046	0.428	Manufacturer provided		1.16
			Hydronic/DX cooling coil or heat pump coil	100		0.139				
			Economizer Return Damper	100		0.046				
			Gas heat	100		0.058				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
Supply Fan Base Allowance (watt/cfm)	0.232		Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)		0	Fan System Allowance (kW)[3]		1.58	Fan System Electrical Input Power (kW)	1.16

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC-34,35	Quantity	2	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	4,000	Site Elevation	80	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
AC-34,35	Supply	1	Air Blender	100		0.046	0.428	Manufacturer provided		2.23
			Hydronic/DX cooling coil or heat pump coil	100		0.139				
			Economizer Return Damper	100		0.046				
			Gas heat	100		0.058				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
Supply Fan Base Allowance (watt/cfm)	0.232		Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)		0	Fan System Allowance (kW)[3]		2.64	Fan System Electrical Input Power (kW)	2.23

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PROJECT

LEDESMA ES MODERNIZATION

Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - EDG/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER — RYAN CELAYA — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: _____

STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

MECHANICAL TITLE 24 DOCUMENTATION

DATE 12.29.2025
JOB # 2025014
SHEET # M7.01

12/23/2025 6:06:58 PM

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC-36	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,000	Site Elevation	80	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[1]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
AC-36	Supply	1	Air Blender	100		0.046	0.428	Manufacturer provided		0.94
			Hydronic/DX cooling coil or heat pump coil	100		0.139				
			Economizer Return Damper	100		0.046				
			Gas heat	100		0.058				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]			Fan System Electrical Input Power (kW)	0.95

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC-2	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	80	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[1]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
AC-2	Supply	1	Air Blender	100		0.046	0.428	Manufacturer provided		0.78
			Hydronic/DX cooling coil or heat pump coil	100		0.139				
			Economizer Return Damper	100		0.046				
			Gas heat	100		0.058				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]			Fan System Electrical Input Power (kW)	0.78

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC-3	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	80	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[1]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
AC-3	Supply	1	Air Blender	100		0.046	0.428	Manufacturer provided		0.78
			Hydronic/DX cooling coil or heat pump coil	100		0.139				
			Economizer Return Damper	100		0.046				
			Gas heat	100		0.058				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]			Fan System Electrical Input Power (kW)	0.78

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC-4	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	80	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[1]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
AC-4	Supply	1	Air Blender	100		0.046	0.428	Manufacturer provided		0.78
			Hydronic/DX cooling coil or heat pump coil	100		0.139				
			Economizer Return Damper	100		0.046				
			Gas heat	100		0.058				
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]			Fan System Electrical Input Power (kW)	0.78

[1] *FOOTNOTES: Fans serving spaces with design background noise goals below NC35*
[2] *Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.*
[3] *Fan system allowance includes fan system base allowance.*
[4] *Filter pressure loss can only be counted once per fan system.*
[5] *Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.*
[6] *Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..*

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass
AC-1	1	< 8,000	1,200	155	13	No Exemptions Apply	Not Required			
AC-5	1	< 8,000	1,600	525	33	No Exemptions Apply	Not Required			
AC-6,7,8	3	< 8,000	1,600	350	22	No Exemptions Apply	Not Required			
AC-9 THRU AC-30	22	< 8,000	2,000	375	19	No Exemptions Apply	Not Required			
AC-31,32	2	< 8,000	2,400	655	27	No Exemptions Apply	Not Required			
AC-33	1	< 8,000	2,400	1,270	53	No Exemptions Apply	Not Required			
AC-34,35	2	< 8,000	4,000	600	15	No Exemptions Apply	Not Required			
AC-36	1	< 8,000	2,000	880	44	No Exemptions Apply	Not Required			
AC-2	1	< 8,000	1,600	245	15	No Exemptions Apply	Not Required			
AC-3	1	< 8,000	1,600	130	8	No Exemptions Apply	Not Required			
AC-4	1	< 8,000	1,600	465	28	No Exemptions Apply	Not Required			

Fan Energy Index (FEI)

01	02	03

Fan Energy Index (FEI)

Name or Item Tag	FEI Exception	FEI
AC-1	Embedded Fan <5HP or <4.1kW	
AC-5	Embedded Fan <5HP or <4.1kW	
AC-6,7,8	Embedded Fan <5HP or <4.1kW	
AC-9 THRU AC-30	Embedded Fan <5HP or <4.1kW	
AC-31,32	Embedded Fan <5HP or <4.1kW	
AC-33	Embedded Fan <5HP or <4.1kW	
AC-34,35	Embedded Fan <5HP or <4.1kW	
AC-36	Embedded Fan <5HP or <4.1kW	
AC-2	Embedded Fan <5HP or <4.1kW	
AC-3	Embedded Fan <5HP or <4.1kW	
AC-4	Embedded Fan <5HP or <4.1kW	

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4I, or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2B	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D	Direct Digital Control (DDC) per 120.2
AC-1 THRU AC-36	Single zone	<= 25,000 ft²	EMCS	EMCS	NA: Serves < 25k ft²	EMCS	NA: Alteration	NA: No operable windows	NA: Single Zone

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d-124enfoolnik/(160.2, 160.3(a)3D, 170.2(c)4N, 170.2(c)4O) for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05				06		07
System Name	AC-1	System Design OA CFM Airflow[1]	155	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 100, OFFICES 103-107	Office space	1017			152.55			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				152.55	18	Ventilation for this System Complies?		Yes

04		05				06		07
System Name	AC-2	System Design OA CFM Airflow[1]	245	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		Provided
08	09	10	11	12	13	14	15	16

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 100 Reception 101 & Workroom	Reception area	859			128.85			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				128.85	18	Ventilation for this System Complies?		Yes

04		05				06		07
System Name	AC-3	System Design OA CFM Airflow[1]	130	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
AC-3	Reception area	859			128.85			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				128.85	18	Ventilation for this System Complies?		Yes

04		05				06		07
System Name	AC-4	System Design OA CFM Airflow[1]	465	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		Provided
08	09	10	11	12	13	14	15	16

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
AC-4	Conference/ meeting	1194			179.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				179.1	18	Ventilation for this System Complies?		Yes

04		05				06		07
System Name	AC-5	System Design OA CFM Airflow[1]	525	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
AC-5	Office space	1318			197.7			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				197.7	18	Ventilation for this System Complies?		Yes

04		05				06		07
System Name	AC-6	System Design OA CFM Airflow[1]	350	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		Provided
08	09	10	11	12	13	14	15	16

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 200 Kindergarten 207	Classroom (ages 5-18)	934			140.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				140.1	18	Ventilation for this System Complies?		Yes

04		05				06		07
System Name	AC-7	System Design OA CFM Airflow[1]	350	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 200 Kindergarten 208	Classroom (ages 5-18)	934			140.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				140.1	18	Ventilation for this System Complies?		Yes

04		05				06		07
System Name	AC-8	System Design OA CFM Airflow[1]	350	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		Provided
08	09	10	11	12	13	14	15	16

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 200 Kindergarten 209	Classroom (ages 5-18)	934			140.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				140.1	18	Ventilation for this System Complies?		Yes

04		05				06		07
System Name	AC-9	System Design OA CFM Airflow[1]	375	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 300 Classrm 301	Classroom (ages 5-18)	994			149.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				149.1	18	Ventilation for this System Complies?		Yes

04		05				06		07
System Name	AC-10	System Design OA CFM Airflow[1]	375	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		Provided
08	09	10	11	12	13	14	15	16

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 300 Classrm 302	Classroom (ages 5-18)	994			149.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				149.1	18	Ventilation for this System Complies?		Yes

04		05				06		07
System Name	AC-11	System Design OA CFM Airflow[1]	375	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 300 CLASSRM 303	Classroom (ages 5-18)	994			149.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				149.1	18	Ventilation for this System Complies?		Yes

04		05				06		07
System Name	AC-12	System Design OA CFM Airflow[1]	375	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]		Provided
08	09	10	11	12	13	14	15	16

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PROJECT

LEDESMA ES MODERNIZATION

Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - EDG/LY PM - DESIGN TEAM
250163.00 PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER RYAN CELAYA MECHANICAL M 34234 EXPIRES 12/31/26 STATE OF CALIFORNIA

DATE SIGNED: _____

STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

**MECHANICAL TITLE 24 DOCU

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
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J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 300 CLASSRM 310	Classroom (ages 5-18)	994			149.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				149.1	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-13	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 300 CLASSRM 311	Classroom (ages 5-18)	994			149.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				149.1	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-14	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

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Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 300 CLASSRM 312	Classroom (ages 5-18)	994			149.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				149.1	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-15	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 400 CLASSSRM 401	Classroom (ages 5-18)	994			149.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				149.1	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-16	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

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Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 400 CLASSRM 402	Classroom (ages 5-18)	944			141.6			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				141.6	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-16	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 400 CLASSRM 402	Classroom (ages 5-18)	994			149.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				149.1	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-17	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

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J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 400 CLASSRM 403	Classroom (ages 5-18)	994			149.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				149.1	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-18	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 400 410	Classroom (ages 5-18)	994			149.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				149.1	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-19	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

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Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 400 CLASSRM 411	Classroom (ages 5-18)	994			149.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				149.1	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-20	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 400 CLASSRM 412	Classroom (ages 5-18)	994			149.1			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				149.1	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-21	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

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Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 500 CLASSRM 501	Classroom (ages 5-18)	980			147			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				147	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-22	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 500 CLASSRM 502	Classroom (ages 5-18)	980			147			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				147	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-23	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

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Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 500 CLASSRM 503	Classroom (ages 5-18)	980			147			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				147	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-24	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 500 CLASSRM 511	Classroom (ages 5-18)	980			147			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				147	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-25	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

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Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 500 CLASSRM 512	Classroom (ages 5-18)	980			147			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				147	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-26	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 500 CLASSRM 513	Classroom (ages 5-18)	980			147			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				147	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-27	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

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Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 600 CLASSRM 601	Classroom (ages 5-18)	976			146.4			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				146.4	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-28	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 600 CLASSRM 602	Classroom (ages 5-18)	976			146.4			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				146.4	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-29	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

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Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 600 CLASSRM 610	Classroom (ages 5-18)	976			146.4			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				146.4	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-30	System Design OA CFM Airflow[1]		375	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 600 CLASSRM 611	Classroom (ages 5-18)	976			146.4			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				146.4	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-31	System Design OA CFM Airflow[1]		655	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

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Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 700 MEDIA CNTR 701	Media Center	1738			260.7			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				260.7	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-32	System Design OA CFM Airflow[1]		655	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 700 MEDIA CNTR 701	Media Center	1738			260.7			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				260.7	18	Ventilation for this System Complies?		Yes
	04	05				06		07	
System Name	AC-33	System Design OA CFM Airflow[1]		1270	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

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Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 700 KITCHEN 713	Kitchen (cooking)	1017			152.55	711.9	715	DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alte

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 700 MULTI-PURPOSE 707	Multipurpose assembly	1764			264.6			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				264.6	18	Ventilation for this System Complies?		Yes
04		05				06		07	
System Name	AC-36	System Design OA CFM Airflow[1]		880	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 [7]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
BLDG 700 STAGE 708	Multipurpose assembly	1764			264.6			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				264.6	18	Ventilation for this System Complies?		Yes

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*

[2] *Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*

[3] *Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.*

[4] *See Standards Tables 120.1-A and 120.1-B.*

[5] *For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.*

J. VENTILATION AND INDOOR AIR QUALITY

[1]120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	EXISTING, SHEET	**NR/ Common Use:** Duct leakage testing shall not exceed 15% per NA7.5.3 required for these systems?	No

L. DISTRIBUTION (DUCTWORK and PIPING)

M2.04, M2.05, M2.06		**Dwelling Units:** Total duct leakage of duct system shall not exceed 15% or duct system to outside shall not exceed 10% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18	Yes	All ductwork is an extension of an existing duct system	
19	No	Ductwork serving individual dwelling unit	
20	No	< 25 ft of new or replacement space conditioning ducts installed in multifamily occupancy	
21	R-6	Duct Insulation R-value	
22	Yes	Ductwork Existing To Remain	
23	Yes	Duct System Connected To Altered Space Conditioning System	

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title	Systems/Spaces To Be Field Verified

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	AC-1; AC-2; AC-3; AC-4; AC-5; AC-6; AC-7; AC-8; AC-9; AC-10; AC-11; AC-12; AC-13; AC-14; AC-15; AC-16; AC-16; AC-17; AC-18; AC-19; AC-20; AC-21; AC-22; AC-23; AC-24; AC-25; AC-26; AC-27; AC-28; AC-29; AC-30; AC-31; AC-32; AC-33; AC-34; AC-35; AC-36

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-MCH-05-A - Air Economizer Controls	AC-1; AC-5; AC-6,7,8; AC-9 THRU AC-30; AC-31,32; AC-33; AC-34,35; AC-36; AC-2; AC-3; AC-4

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to 120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	BLDG 100, OFFICES 103-107; BLDG 100 Reception 101 & Workroom; AC-3; AC-4; AC-5; BLDG 200 Kindergarten 207; BLDG 200 Kindergarten 208; BLDG 200 Kindergarten 209; BLDG 300 Classrm 301; BLDG 300 Classrm 302; BLDG 300 CLASSRM 303; BLDG 300 CLASSRM 310; BLDG 300 CLASSRM 311; BLDG 300 CLASSRM 312; BLDG 400 CLASSSRM 401; BLDG 400 CLASSRM 402; BLDG 400 CLASSRM 402; BLDG 400 CLASSRM 403; BLDG 400 410; BLDG 400 CLASSRM 411; BLDG 400 CLASSRM 412; BLDG 500 CLASSRM 501; BLDG 500 CLASSRM 502; BLDG 500 CLASSRM 503; BLDG 500 CLASSRM 511; BLDG 500 CLASSRM 512; BLDG 500 CLASSRM 513; BLDG 600 CLASSRM 601; BLDG 600 CLASSRM 602; BLDG 600 CLASSRM 610; BLDG 600 CLASSRM 611; BLDG 700 MEDIA CNTR 701; BLDG 700 MEDIA CNTR 701; BLDG 700 KITCHEN 713; BLDG 700 MULTI-PURPOSE 707; BLDG 700 MULTI-PURPOSE 707; BLDG 700 STAGE 708

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-MCH-11-A Automatic Demand Shed Controls	AC-1 THRU AC-36
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	AC-1; AC-6,7,8; AC-9 thru AC-30; AC-31,32; AC-33; AC-34,35; AC-36; AC-2; AC-3; AC-4
NRCA-MCH-18-A Energy Management Control Systems	AC-1 THRU AC-36

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan sheet or construction document location
		M7.02

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Eric Gustafson	Documentation Author Signature:	
Company:	Capital Engineering Consultants	Signature Date:	12/23/2025
Address:	11020 Sun Center Dr. Suite 100	CEA / HERS Certification Identification (if applicable):	
City/State/Zip:	Rancho Cordova / CA / 95670	Phone:	916-851-3500

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 that is provided to the building owner at occupancy.

Responsible Designer Name:	RYAN CELAYA	Responsible Designer Signature:	
Company:	CAPITAL ENGINEERING CONSULTANTS, INC.	Date Signed:	12/23/2025
Address:	11020 Sun Center Dr. Suite 100	License:	M 34234
City/State/Zip:	Rancho Cordova / CA / 95670	Phone:	916-851-3500

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PROJECT

LEDESMA ES MODERNIZATION

Oak Grove School District

CONSULTANT

capital engineering
Rancho Cordova, California

RC - EDG/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER — RYAN CELAYA — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: _____

STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

MECHANICAL TITLE 24 DOCUMENTATION

DATE 12.29.2025

JOB # 2025014

SHEET #

M7.04

12/23/2025 6:06:59 PM

Space Conditioning Mandatory Measures:

110.2 CERTIFICATION BY MANUFACTURERS
ANY SPACE CONDITIONING EQUIPMENT LISTED IN §110.2 SHALL ONLY BE INSTALLED IF CERTIFIED TO THE ENERGY COMMISSION TO MEET ALL APPLICABLE §110.2 REQUIREMENTS.

110.2(a) SPACE CONDITIONING EQUIPMENT EFFICIENCY
EQUIPMENT SHALL MEET APPLICABLE EFFICIENCY REQUIREMENTS IN TABLE 110.2-A THROUGH TABLE 110.2-N.

110.5 PILOT LIGHTS PROHIBITED FOR NATURAL GAS EQUIPMENT
PILOT LIGHTS ARE PROHIBITED ON NATURAL GAS FAN-TYPE CENTRAL FURNACES, POOL HEATERS, SPA HEATERS, AND FIREPLACES.

110.8(a) INSULATION CERTIFICATION
INSTALLED INSULATION SHALL BE CERTIFIED BY THE DEPARTMENT OF CONSUMER AFFAIRS PER TITLE 24, PART 12, CHAPTERS 12-13, ARTICLE 3 "STANDARDS FOR INSULATING MATERIAL."

110.8(b) UREA FORMALDEHYDE INSULATION
UREA FORMALDEHYDE INSULATION SHALL NOT BE INSTALLED UNLESS IN EXTERIOR SIDE WALLS WITH A FOUR-MIL-THICK PLASTIC POLYETHYLENE VAPOR RETARDER OR EQUIVALENT PLASTIC SHEATHING VAPOR RETARDER INSTALLED BETWEEN THE UREA FORMALDEHYDE FOAM INSULATION AND THE INTERIOR SPACE.

110.8(c) INSULATING MATERIAL
ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CALIFORNIA BUILDING CODE.

110.8(d) DUCTS
IF INSULATION IS INSTALLED ON AN EXISTING SPACE-CONDITIONING DUCT, IT SHALL COMPLY WITH SECTION 604.0 OF THE CMC.

120.1(a) GENERAL VENTILATION AND INDOOR AIR QUALITY REQUIREMENTS
ALL OCCUPIABLE SPACES IN HOTEL/MOTEL AND NONRESIDENTIAL BUILDINGS OTHER THAN HEALTHCARE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF §120.1(a) THROUGH (g). THE REQUIRED OUTDOOR AIR VENTILATION RATE AND AIR-DISTRIBUTION SYSTEM DESIGN SHALL BE CLEARLY IDENTIFIED ON THE PLANS.

120.1(c)1 NONRESIDENTIAL AND HOTEL/MOTEL BUILDINGS ALL OCCUPIABLE SPACES SHALL MEET THE FOLLOWING 120.1(c)1 AIR FILTRATION REQUIREMENTS, AND EITHER 120.1(c)2 NATURAL VENTILATION, OR 120.1(c)3 MECHANICAL VENTILATION:
A. THE FOLLOWING SYSTEM TYPES SHALL BE PROVIDED WITH AIR FILTERS TO CLEAN OUTSIDE AND RETURN AIR PRIOR TO INTRODUCTION INTO OCCUPIED SPACES:
i. NEWLY INSTALLED MECHANICAL SPACE CONDITIONING SYSTEMS THAT USE FORCED AIR DUCTS <10 FT LONG TO SUPPLY AIR TO AN OCCUPIABLE SPACE.
ii. MECHANICAL SUPPLY-ONLY VENTILATION SYSTEMS THAT PROVIDE OUTSIDE AIR TO AN OCCUPIABLE SPACE.
iii. THE SUPPLY SIDE OF MECHANICAL BALANCED VENTILATION SYSTEMS, INCLUDING HEAT RECOVERY VENTILATION SYSTEMS AND ENERGY RECOVERY VENTILATION SYSTEMS THAT PROVIDE OUTSIDE AIR TO AN OCCUPIABLE SPACE.
B. AIR FILTERS SHALL HAVE EFFICIENCY >= MERV 13 WHEN TESTED PER ASHRAE STANDARD 52.2 OR A PARTICLE SIZE EFFICIENCY RATING PER 120.1(c)1B.
C. SYSTEM AIR FILTERS SHALL BE EITHER
i. NOMINAL 2 INCH MINIMUM DEPTH, OR
ii NOMINAL 1 INCH MINIMUM DEPTH, IF SIZED PER EQUATION 120.1-A BASED ON A MAXIMUM FACE VELOCITY OF 150 FT/MIN

120.1(c)2 NATURAL VENTILATION
NATURALLY VENTILATED SPACES SHALL BE DESIGNED IN ACCORDANCE WITH 120.1(c)2A THROUGH 120.1(c)2C AND INCLUDE A MECHANICAL VENTILATION SYSTEMS DESIGNED IN ACCORDANCE WITH 120.1(c)3.

Space Conditioning Mandatory Measures:

120.1(c)3 MECHANICAL VENTILATION
OCCUPIABLE SPACES SHALL BE VENTILATED WITH A MECHANICAL VENTILATION SYSTEM CAPABLE OF PROVIDING AN OUTDOOR AIRFLOW RATE (V_{ot}) TO THE ZONE NO LESS THAN EQUATION 120.1-F.

120.1(c)4 EXHAUST VENTILATION
DESIGN EXHAUST AIRFLOW SHALL BE DETERMINED BY TABLE 120.1-D. EXHAUST MAKEUP AIR SHALL BE PERMITTED TO BE ANY COMBINATION OF OUTDOOR, RECIRCULATED, OR TRANSFER AIR.

120.1(d) TIMES OF OCCUPANCY
MINIMUM OUTDOOR AIR RATE SHALL BE MET AT TIMES WHEN THE SPACE IS USUALLY OCCUPIED IN ACCORDANCE WITH 120.1(c).

120.1(d)2 PRE-OCCUPANCY
THE LESSER OF THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY SECTION 120.1(c) OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BUILDING DURING THE 1-HOUR PERIOD IMMEDIATELY BEFORE THE BUILDING IS NORMALLY OCCUPIED.

120.1(d)3 REQUIRED DEMAND CONTROL VENTILATION
DCV CONTROLS ARE REQUIRED FOR A SPACE WITH A DESIGN OCCUPANCY DENSITY >= 25 PEOPLE/1,000 FT2 IF THE SYSTEM SERVING THE SPACE HAS ONE OR MORE OF THE FOLLOWING
- AN AIR ECONOMIZER
- MODULATING OUTSIDE AIR CONTROL
- DESIGN OUTDOOR AIRFLOW RATE > 3,000 CFM

120.1(d)4 DEMAND CONTROL VENTILATION DEVICES
A. FOR EACH SYSTEM WITH DCV, AT LEAST ONE CO_2 SENSOR PER 10,000 FT2 SHALL BE INSTALLED IN EACH ROOM MEETING 120.1(d)3 CRITERIA. WHEN A ZONE OR A SPACE IS SERVED BY MORE THAN ONE SENSOR, A SIGNAL FROM ANY SENSOR SHALL TRIGGER AN INCREASE IN VENTILATION.

B. CO_2 SENSORS SHALL BE BETWEEN 3 AND 6 FT ABOVE THE FLOOR.

C. DCV CONTROLS SHALL MAINTAIN CO_2 CONCENTRATIONS <= 600 PPM PLUS THE OA CO_2 CONCENTRATION IN ALL ROOMS WITH CO_2 SENSORS.

D. OUTDOOR AIR CO_2 CONCENTRATION SHALL BE ASSUMED TO BE 400 PPM IF NO DIRECT MEASUREMENT, OR SHALL BE DYNAMICALLY MEASURED USING A CO_2 SENSOR LOCATED WITHIN 4 FT OF THE OUTDOOR AIR INTAKE.

E. FOR SYSTEMS OPERATING DURING OCCUPANCY, CONTROLS SHALL MAINTAIN OA VENTILATION RATES NO LESS THAN:
THE RATE LISTED IN TABLE 120.1-A TIMES THE CONDITIONED FLOOR AREA FOR SPACES WITH CO_2 SENSORS, PLUS THE RATE REQUIRED BY 120.1(c)3 FOR OTHER SPACES SERVED BY THE SYSTEM,
OR THE EXHAUST AIR RATE, WHICH EVER IS GREATER.

F. CO_2 SENSORS SHALL BE CERTIFIED BY THE MANUFACTURER TO MEET THE ACCURACY, CALIBRATION AND RESET REQUIREMENTS OF 120.1(d)4F.

G. THE CO_2 SENSOR READING FOR EACH ZONE SHALL BE DISPLAYED CONTINUOUSLY AND SHALL BE RECORDED ON SYSTEMS WITH DDC TO THE ZONE LEVEL.

120.1(f) DESIGN AND CONTROL REQUIREMENTS FOR QUANTITIES OF OUTDOOR AIR
120.1(f)1 ALL MECHANICAL VENTILATION AND SPACE-CONDITIONING SYSTEMS SHALL BE DESIGNED WITH AND HAVE INSTALLED DUCTWORK, DAMPERS, AND CONTROLS TO ALLOW OA RATES TO BE OPERATED AT NO LESS THAN THE LARGER OF: 120.1(c)3 MINIMUMS OR THE RATE REQUIRED FOR MAKE-UP OF EXHAUST SYSTEMS FOR AN EXEMPT OR COVERED PROCESS, CONTROL OF ODORS, OR CONTAMINANT REMOVAL IN A SPACE.

Space Conditioning Mandatory Measures:

120.1(f)3 MEASURED OA RATES OF CONSTANT VOLUME SYSTEMS SHALL BE TESTED TO CONFIRM THEIR ABILITY TO OPERATE WITHIN 10% OF THE DESIGN MINIMUM OUTSIDE AIR RATE.

120.1(g) AIR CLASSIFICATION AND RECIRCULATION LIMITATIONS
AIR CLASSIFICATION AND RECIRCULATION LIMITATIONS OF AIR SHALL BE BASED ON TABLE 120.1-A OR TABLE 120.1-C, AND IN ACCORDANCE WITH 120.1(g)1 THROUGH 4.

120.2(a) THERMOSTAT CONTROLS
HEATING AND COOLING SUPPLY TO EACH SPACE-CONDITIONING ZONE OR DWELLING UNIT SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE IN THE ZONE AND MEETS 120.2(b) REQUIREMENTS.

120.2(b) ZONAL THERMOSTAT CONTROLS
120.2(b)4 THERMOSTATIC CONTROLS FOR ALL SINGLE ZONE AIR CONDITIONERS AND HEAT PUMPS SHALL COMPLY WITH THE REQUIREMENTS OF 110.2(c) AND 110.12(a) AND, IF EQUIPPED WITH DDC TO THE ZONE LEVEL WITH THE AUTOMATIC DEMAND SHED CONTROLS OF 110.12(b).

120.2(e)1 AUTOMATIC SHUT-OFF FOR SPACE-CONDITIONING SYSTEMS
EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH ONE OF THE FOLLOWING CONTROLS CAPABLE OF AUTOMATICALLY SHUTTING OFF THE SYSTEM DURING PERIODS OF NONUSE:
- AUTOMATIC TIME SWITCH CONTROL PER 110.9, WITH ACCESSIBLE MANUAL OVERRIDE ALLOWING SYSTEM OPERATION FOR UP TO 4 HOURS, OR
- AN OCCUPANCY SENSOR, OR
- A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED.

120.2(e)2 AUTOMATIC RESTART FOR SPACE-CONDITIONING SYSTEMS
EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT SHALL AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN:
- 120.2(e)2A A SETBACK HEATING THERMOSTAT SETPOINT IF THE SYSTEM PROVIDES MECHANICAL HEATING, AND
- 120.2(e)2B A SETUP COOLING THERMOSTAT SETPOINT IF THE SYSTEM PROVIDES MECHANICAL COOLING.

120.2(f) DAMPERS FOR AIR SUPPLY AND EXHAUST EQUIPMENT
OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE UPON FAN SHUTDOWN.

Space Conditioning Mandatory Measures:

120.2(h) AUTOMATIC DEMAND SHED CONTROLS
SHALL MEET REQUIREMENTS IN 110.12
110.12(a) DEMAND RESPONSIVE (DR) CONTROL REQUIREMENTS:
1. EITHER CERTIFIED OPENADR 2.0a, OPENADR 2.0b VIRTUAL END NODE (VEN); OR CERTIFIED BY THE MANUFACTURER AS BEING CAPABLE OF RESPONDING TO A DR SIGNAL FROM A CERTIFIED OPENADR 2.0b VIRTUAL END NODE BY AUTOMATICALLY IMPLEMENTING THE CONTROL FUNCTIONS REQUESTED BY THE VIRTUAL END NODE FOR THE EQUIPMENT IT CONTROLS.
2. CAPABLE OF COMMUNICATING USING WI-FI, ZIGBEE, BACNET, ETHERNET, AND/OR HARD-WIRING.
3. MAY INCORPORATE AND USE ADDITIONAL PROTOCOLS BEYOND THOSE SPECIFIED IN 110.12(a)1 AND 2.
4. SHALL CONTINUE TO PERFORM ALL OTHER CONTROL FUNCTIONS PROVIDED BY THE CONTROL WHEN COMMUNICATIONS ARE DISABLED.
5. THERMOSTATS SHALL COMPLY WITH REFERENCE JOINT APPENDIX 5 (JA5)

110.12(b) NONRESIDENTIAL HVAC SYSTEMS WITH DDC TO THE ZONE LEVEL SHALL BE PROGRAMMED TO ALLOW CENTRALIZED DEMAND SHED FOR NON-CRITICAL ZONES. CONTROLS SHALL BE CAPABLE OF:
1. REMOTELY INCREASING THE OPERATING COOLING TEMPERATURE SETPOINTS BY 4 DEGREES OR MORE IN ALL NON-CRITICAL ZONES ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS
2. REMOTELY DECREASING THE OPERATING HEATING TEMPERATURE SETPOINTS BY 4 DEGREES OR MORE IN ALL NON-CRITICAL ZONES ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS
3. REMOTELY RESETTING THE TEMPERATURES IN ALL NON-CRITICAL ZONES TO ORIGINAL OPERATING LEVELS ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS
4. PROVIDING AN ADJUSTABLE RATE OF CHANGE FOR THE TEMPERATURE INCREASE, DECREASE, AND RESET
5. THE FOLLOWING FEATURES:
   A. DISABLED BY AUTHORIZED FACILITY OPERATORS
   B. MANUAL CONTROL BY AUTHORIZED FACILITY OPERATORS
   C. UPON RECEIPT OF A DR SIGNAL, SPACE-CONDITIONING SYSTEMS SHALL CONDUCT A CENTRALIZED DEMAND SHED, AS SPECIFIED IN 110.12(b)1 AND 110.12(b)2, FOR NON-CRITICAL ZONES DURING THE DR PERIOD

Space Conditioning Mandatory Measures:

120.2(i) ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD)
ALL NEWLY INSTALLED AIR-COOLED PACKAGED DIRECT-EXPANSION UNITS, WITH AN AIR HANDLER MECHANICAL COOLING CAPACITY GREATER THAN 33,000 BTU/HR AND AN INSTALLED AIR ECONOMIZER SHALL INCLUDE A STAND-ALONE OR INTEGRATED FDD SYSTEM IN ACCORDANCE WITH THE FOLLOWING:
1. TEMPERATURE SENSORS SHALL BE PERMANENTLY INSTALLED TO MONITOR SYSTEM OPERATION: OUTSIDE AIR, SUPPLY AIR, AND WHEN REQUIRED FOR DIFFERENTIAL ECONOMIZER OPERATION, A RETURN AIR SENSOR.
2. TEMPERATURE SENSORS SHALL HAVE AN ACCURACY OF +/- 2°F OVER THE RANGE OF 40°F TO 80°F.
3. CONTROLLER SHALL HAVE THE CAPABILITY OF DISPLAYING THE VALUE OF EACH SENSOR AND
4. PROVIDE SYSTEM STATUS BY INDICATING: FREE COOLING AVAILABLE, ECONOMIZER ENABLED, COMPRESSOR ENABLED, HEATING ENABLED (IF AVAILABLE), MIXED AIR LOW LIMIT CYCLE ACTIVE.
5. CONTROLLER SHALL ALLOW MANUAL INITIATION OF EACH OPERATING MODE SO THAT THE OPERATION OF COOLING SYSTEMS, ECONOMIZERS, FANS, AND HEATING SYSTEMS CAN BE INDEPENDENTLY TESTED AND VERIFIED.
6. FAULTS SHALL BE REPORTED IN ONE OF THE FOLLOWING WAYS:
   - REPORTED TO AN EMCS REGULARLY MONITORED BY FACILITY STAFF.
   - ANNUNCIATED LOCALLY ON ONE OR MORE ZONE THERMOSTATS, OR A DEVICE WITHIN 5 FT OF ZONE THERMOSTAT(S), CLEARLY VISIBLE, AT EYE LEVEL, AND WITH INSTRUCTIONS TO CONTACT APPROPRIATE BUILDING STAFF OR AN HVAC TECHNICIAN. IN BUILDINGS WITH MULTIPLE TENANTS, ANNUNCIATION SHALL EITHER BE WITHIN PROPERTY MANAGEMENT OFFICES OR IN A COMMON SPACE ACCESSIBLE BY THE PROPERTY OR BUILDING MANAGER
   - REPORTED TO A FAULT MANAGEMENT APPLICATION WHICH AUTOMATICALLY PROVIDES NOTIFICATION OF THE FAULT TO REMOTE HVAC SERVICE PROVIDER.
7. THE FDD SHALL DETECT: AIR TEMPERATURE SENSOR FAILURE/FAULT, FAILURE TO ECONOMIZE, ECONOMIZING WHEN NOT ADVISED, DAMPER NOT MODULATING, AND EXCESSIVE OUTDOOR AIR.
8. THE FDD SYSTEM SHALL BE CERTIFIED BY THE ENERGY COMMISSION AS MEETING REQUIREMENTS OF 120.2(i)1 THROUGH 120.2(i)7 IN ACCORDANCE WITH 110.0 AND JOINT APPENDIX JA6.3

120.2(j) DIRECT DIGITAL CONTROLS (DDC)
DDC TO THE ZONE SHALL BE PROVIDED AS SPECIFIED BY TABLE 120.2-A. THE DDC SYSTEM SHALL MEET CONTROL LOGIC REQUIREMENTS OF 120.1(D), 110.12(a) AND 110.12(b) AND BE CAPABLE OF ALL OF THE FOLLOWING:
1. MONITORING ZONE AND SYSTEM DEMAND FOR FAN PRESSURE, PUMP PRESSURE, HEATING AND COOLING
2. TRANSFERRING ZONE AND SYSTEM DEMAND INFORMATION FROM ZONES TO AIR DISTRIBUTION SYSTEM CONTROLLERS AND FROM AIR DISTRIBUTION SYSTEMS TO HEATING AND COOLING PLANT CONTROLLERS
3. AUTOMATICALLY DETECTING THE ZONES AND SYSTEMS THAT MAY BE EXCESSIVELY DRIVING THE RESET LOGIC AND GENERATE AN ALARM OR OTHER INDICATION TO THE SYSTEM OPERATOR
4. READILY ALLOW OPERATOR REMOVAL OF ZONE(S) FROM THE RESET ALGORITHM
5. FOR NEW BUILDINGS, TRENDING AND GRAPHICALLY DISPLAYING INPUT AND OUTPUT POINTS
6. RESETTING HEATING AND COOLING SETPOINTS IN ALL NON-CRITICAL ZONES UPON RECEIPT OF A SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT AS DESCRIBED IN 110.12(b).

Space Conditioning Mandatory Measures:

120.2(k) OPTIMUM START/STOP CONTROLS
SPACE-CONDITIONING SYSTEMS WITH DDC TO THE ZONE SHALL HAVE OPTIMUM START/STOP CONTROLS. CONTROL ALGORITHM SHALL, AS A MINIMUM, BE A FUNCTION OF THE DIFFERENCE BETWEEN SPACE TEMPERATURE AND OCCUPIED SETPOINT, OUTDOOR AIR TEMP, AND AMOUNT OF TIME PRIOR TO SCHEDULED OCCUPANCY.

MASS RADIANT FLOOR SLAB SYSTEMS SHALL INCORPORATE FLOOR TEMPERATURE ONTO THE OPTIMUM START ALGORITHM.

120.4 AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS
PORTIONS OF SUPPLY- AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8:
- OUTDOORS
- IN A SPACE BETWEEN THE ROOF AND AN INSULATING CEILING
- IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES
- UNCONDITIONED SPACES, SUCH AS UNCONDITIONED CRAWLSPACE

PORTIONS OF SUPPLY-AIR DUCTS THAT ARE NOT IN ONE OF THESE SPACES, INCLUDING DUCTS BURIED IN CONCRETE SLAB, SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 (OR ANY HIGHER LEVEL REQUIRED BY CMC 605.0), OR BE ENCLOSED IN DIRECTLY CONDITIONED SPACE.

Space Conditioning Mandatory Measures:

120.4(b) DUCT AND PLENUM MATERIALS
120.4(b) FACTORY-FABRICATED DUCT SYSTEMS MUST:
- COMPLY WITH UL 181 FOR DUCTS AND CLOSURE SYSTEMS AND BE LABELED AS COMPLYING WITH UL 181
- ALL PRESSURE SENSITIVE TAPES, HEAT ACTIVATED TAPES, AND MASTICS USED IN MANUFACTURE OF RIGID FIBERGLASS DUCTS SHALL COMPLY WITH UL 181 AND UL 181A
- ALL PRESSURE SENSITIVE TAPES, AND MASTICS USED IN MANUFACTURE OF FLEXIBLE DUCTS SHALL COMPLY WITH UL 181 AND L 181B
- JOINTS AND SEAMS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS COMBINED WITH MASTICS AND DRAWBANDS.

FIELD-FABRICATED DUCT SYSTEMS:
- FACTORY-MADE RIGID FIBERGLASS AND FLEXIBLE DUCTS FOR FIELD-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL 181. ALL CLOSURE SYSTEMS, INCLUDING PRESSURE SENSITIVE TAPES, MASTICS, AND AEROSOL SEALANTS, SHALL MEET THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A AND UL 181B.
- MASTIC SEALANTS SHALL:
  - COMPLY WITH APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B AND BE NONTOXIC AND WATER RESISTANT.
  - PASS ASTM C731 AND D2202, IF USED IN BUILDING INTERIOR,
  - PASS ASTM C731, C732, AND D2202, IF USED ON EXTERIOR.
  - SEALANTS AND MESHES SHALL BE RATED FOR EXTERIOR USE.
- PRESSURE SENSITIVE TAPES SHALL COMPLY WITH APPLICABLE REQUIREMENTS IN UL 181, UL 181A, AND UL 181B.
- JOINTS AND SEAMS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS COMBINED WITH MASTICS AND DRAWBANDS.
- DRAWBANDS USED WITH FLEXIBLE DUCTS SHALL:
  - BE EITHER STAINLESS STEEL WORM-DRIVE HOSE CLAMPS OR UV-RESISTANT NYLON DUCT TIES
  - HAVE A MINIMUM TENSILE STRENGTH RATING OF 150 LBS.
  - BE TIGHTENED AS RECOMMENDED BY THE MANUFACTURER
- AEROSOL SEALANT CLOSURES SHALL:
  - MEET REQUIREMENTS OF UL 723 AND BE APPLIED ACCORDING TO MANUFACTURER SPECIFICATIONS
  - TAPES OR MASTICS USED IN COMBINATION WITH AEROSOL SEALING SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B, ASTM C731, C732 AND D2202.

120.4(c)
ALL DUCT INSULATION PRODUCT R-VALUES SHALL BE BASED ON INSULATION ONLY AND TESTED IN ACCORDANCE WITH ASTM C518 OR ASTM C177 AND CERTIFIED PER §110.8.

120.4(d)
INSTALLED THICKNESS OF DUCT INSULATION USED TO DETERMINE ITS R-VALUE SHALL BE DETERMINED AS FOLLOWS:
- DUCT BOARD, LINER, AND FACTORY-MADE RIGIDS: USE NOMINAL INSULATION THICKNESS
- DUCT WRAP: USE 75% (25% COMPRESSION) OF NOMINAL THICKNESS
- FACTORY-MADE FLEXIBLE AIR DUCTS: DIVIDE THE DIFFERENCE BETWEEN THE ACTUAL OUTSIDE DIAMETER AND NOMINAL INSIDE DIAMETER BY TWO.

120.4(e)
INSULATED FLEXIBLE DUCT PRODUCTS INSTALLED TO MEET THIS REQUIREMENT MUST INCLUDE LABELS (MAX INTERVALS OF 3 FT) SHOWING THERMAL RESISTANCE PERFORMANCE R-VALUE FOR THE DUCT INSULATION ITSELF BASED ON TESTS IN 120.4(c). AND INSTALLED THICKNESS DETERMINED BY 120.4(d)3.

Space Conditioning Mandatory Measures:

120.4(f) PROTECTION OF INSULATION
INSULATION SHALL BE PROTECTED FROM DAMAGE BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND. CELLULAR FOAM INSULATION SHALL BE PROTECTED, OR BE PAINTED WITH A WATER RETARDANT COATING THAT PROVIDES SHIELDING FROM SOLAR RADIATION.

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PROJECT

LEDESMA ES MODERNIZATION

Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - ED/G/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER — RYAN CELAYA — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: _____

STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

MECHANICAL TITLE 24 DOCUMENTATION

DATE 12.29.2025

JOB # 2025014

SHEET #

M7.05

12/23/2025 6:07:00 PM

SYMBOLS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	-	3 WAY VALVE
	-	ANCHOR
	AVN	ANGLE VALVE
	AQ	AQUASTAT
AV	-	AUTOMATIC AIR VENT
	BFP, BP, DCW	BACKFLOW PREVENTER, BACKFLOW PREVENTER, DOUBLE CHECK VALVE
	-	BALANCING VALVE
	-	BALL VALVE
	-	BOTTOM CONNECTION
	-	CHECK VALVE
	CP	CIRCULATING PUMP
	CO	CLEANOUT
	EJ	EXPANSION JOINT
	-	FLEXIBLE CONNECTOR
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	GCK	GAGE COCK
	GSCK, PC	GAS COCK, PLUG COCK
	GM	GAS METER
	GPR	GAS PRESSURE REGULATOR
	-	GATE VALVE
	HD	HOPPER DRAIN
	HB	HOSE BIBB
	-	PIPE BREAK, PIPE CONTINUATION
	-	PIPE CAP
	-	PIPE DOWN
	-	PIPE GUIDE
	-	PIPE UP
	-	POINT OF CONNECTION
	-	PRESSURE RELIEF VALVE
	-	REDUCER
	-	SOLENOID VALVE
	-	STRAINER
	-	THERMOMETER
	TP	TRAP PRIMER
	-	UNION
	-	VALVE IN RISER/DROP
	VB	VALVE IN VALVE BOX
	-	OVERHEAD CLEANOUT, WALL CLEANOUT
	WHA	WATER HAMMER ARRESTOR
	WM	WATER METER
	-	HOT AND COLD WATER CONNECTION
	-	EXISTING PIPING TO BE ABANDONED
	-	EXISTING PIPING TO BE REMOVED

PLUMBING ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ABC	ABOVE CEILING	INV OR I.E.	INVERT ELEVATION
AFF	ABOVE FINISHED FLOOR	LAV	LAVATORY SINK
AFG	ABOVE FINISHED GRADE	MS	MOP SINK
AF, BF	ABOVE FLOOR, BELOW FLOOR	(N) , (E)	NEW , EXISTING
AP	ACCESS PANEL	NTS	NOT TO SCALE
BEL	BELOW	OH	OVERHEAD
BOF	BOTTOM OF FOOTING	(R), (D)	RISE , DROP
CLG	CEILING	SK	SINK
DN	DOWN	TOF	TOP OF FOOTING
DFU	DRAIN FIXTURE UNIT	TYP	TYPICAL
DF	DRINKING FOUNTAIN	UN	UNION
DL	DEVELOPED LENGTH	UG	UNDERGROUND
FA	FROM (LEVEL OR ROOF) ABOVE	WH	WALL HYDRANT
FB	FROM (LEVEL OR UG) BELOW	WC	WATER CLOSET
FD	FLOOR DRAIN	WSFU	WATER SUPPLY FIXTURE UNITS
FCO	FLOOR CLEANOUT		
FLR	FLOOR		
FS	FLOOR SINK		
GCO	GRADE CLEANOUT		

PLUMBING SYSTEMS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
AW	AW	ACID WASTE
AV	AV	ACID VENT
CA	CA	EQUIPMENT COMPRESSED AIR
CD	CD	CONDENSATE DRAIN
CW	CW	DOMESTIC COLD WATER
D	D	DRAIN
FW	FW	FILTERED WATER
GW	GW	GREASE WASTE
GWV	GWV	GREASE WASTE VENT
HW	HW	DOMESTIC HOT WATER
HWR	HWR	DOMESTIC HOT WATER RETURN
IW	IW	INDIRECT WASTE
IRR	IRR	IRRIGATION WATER
NGLP	NGLP	NATURAL GAS - LOW PRESSURE
NGMP	NGMP	NATURAL GAS - MEDIUM PRESSURE
NGHP	NGHP	NATURAL GAS - HIGH PRESSURE
NPCW	NPCW	NON-POTABLE COLD WATER
OD	OD	OVERFLOW DRAIN
PCD	PCD	PUMPED CONDENSATE DRAIN
PSD	PSD	PUMPED STORM DRAIN
PSS	PSS	PUMPED SANITARY DRAIN
SD	SD	STORM DRAIN
SSD	SSD	SUB-SOIL DRAINAGE
SS	SS	SANITARY SEWER
TWR	TWR	TEMPERED DOMESIC WATER RETURN
TPW	TPW	TRAP PRIMER WATER
V	V	VENT FOR SANITARY SEWER

FIRE STOPPING

1. PACK THE ANNULAR SPACE BETWEEN THE PIPE SLEEVES AND THE PIPE THROUGH ALL FLOORS AND WALLS WITH UL LISTED FIRE STOP, AND SEALED AT THE ENDS. ALL PIPE PENETRATIONS SHALL BE UL LISTED, HILTI, 3M PRO-SET, OR EQUAL.
   A. INSTALL FIRE CAULKING BEHIND MECHANICAL SERVICES INSTALLED WITHIN FIRE RATED WALLS, TO MAINTAIN CONTINUOUS RATING OF WALL CONSTRUCTION.
2. PROVIDE SPECSEAL SYSTEMS UL FIRE RATED SLEEVE/COUPLING PENETRATORS FOR EACH PIPE PENETRATION OR FIXTURE OPENING PASSING THROUGH FLOORS, WALLS, PARTITIONS OR FLOOR/CEILING ASSEMBLIES. ALL PENETRATORS SHALL COMPLY WITH UL FIRE RESISTANCE DIRECTORY (LATEST EDITION), AND IN ACCORDANCE WITH CHAPTER 7, CBC REQUIREMENTS.
3. SLEEVE PENETRATORS SHALL HAVE A BUILT IN ANCHOR RING FOR WATERPROOFING AND ANCHORING INTO CONCRETE POURS OR USE THE SPECIAL FIT CORED HOLE PENETRATOR FOR CORED HOLES.
4. COPPER AND STEEL PIPING SHALL HAVE SPECSEAL PLUGS ON BOTH SIDES OF THE PENETRATOR TO REDUCE NOISE AND TO PROVIDE WATERPROOFING.
5. ALL ABOVE SYSTEMS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6. ALTERNATE FIRESTOPPING SYSTEMS ARE ACCEPTABLE IF APPROVED EQUAL. HOWEVER, ANY DEVIATION FROM THE ABOVE SPECIFICATION REQUIRES THE CONTRACTOR TO BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE PROPOSED PRODUCTS AND THEIR INTENDED USE, AND THE CONTRACTOR SHALL ASSUME ALL RISKS AND LIABILITIES WHATSOEVER IN CONNECTION THEREWITH.

PLUMBING GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCAITONS OF PLUMBING FIXTURES.
2. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE, EXACT LOCATIONS, SIZES, AND ELEVATIONS OF ALL ITEMS SHOWN PRIOR TO THE INSTALLATION OF ANY NEW WORK.
3. CONTRACTOR SHALL FIELD VERIFY ALL POINTS OF CONNECTION TO SITE PIPING (LOCATIONS AND INVERT) PRIOR TO EXCAVATION, FABRICATION AND INSTALLATION OF ASSOCIATED PIPING RUNS. NOTIFY ARCHITECT AND OR ENGINEER IMMEDIATELY IF POINTS OF CONNECTION OR INVERTS ARE DIFFERENT THAN REPRESENTED ON THE DRAWINGS.
4. CLOSELY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLATION OF NEW. IDENTIFY SIZE AND LOCATIONS OF ALL PENETRATIONS THROUGH FOUNDATIONS, WALLS OR ROOFS PRIOR TO FABRICATION OF ANY SYSTEMS OR ORDERING MATERIALS AFFECTED BY POSSIBLE COORDINATION CONFLICTS.
5. ACCESS PANELS SHALL BE PROVIDED AS NECESSARY TO PROPERLY ACCESS THE PLUMBING SYSTEM INCLUDING VALVES, REFER TO SPECIFICATIONS FOR MORE INFORMATION.
6. OFFSET VENT THROUGH ROOFS 10'-0" MINIMUM FROM AIR INTAKES AND 4'-0" FROM OUTSIDE WALLS.
7. HVAC EQUIPMENT IS SHOWN FOR THE COORDINATION OF UTILITIES ONLY. REFER TO 'M' SHEETS FOR MORE INFORMATION.
8. THE CONNECTION OF NATURAL GAS LINES TO EQUIPMENT SHALL INCLUDE A LINE SIZE SHUT-OFF VALVE, UNION AND A MINIMUM 6" LONG DIRT LEG WITH ACCESSIBLE END CAP.
9. THE CONNECTION OF CONDENSATE DRAIN LINES TO HVAC EQUIPMENT SHALL INCLUDE A MINIMUM 4" DEEP "P"-TRAP AND PLUGGED TEE AT ALL OFFSETS.
10. PROVIDE WATER HAMMER ARRESTORS (WHA) AS INDICATED ON PLUMBING PLANS AND/OR AS DESCRIBED WITHIN DIVISION 22 SPECIFICATIONS. SIZING SHALL BE IN ACCORDANCE WITH PDI STANDARD WH-201.
11. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
12. PENETRATION OF PIPES, CONDUIT, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
13. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
14. ALL VALVES SHOWN SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED.
15. PIPING SHALL BE SUPPORTED AND BRACED IN STRICT COMPLIANCE WITH DIVISION 22 SPECIFICATIONS.
16. ALL NEW SANITARY WASTE PIPING SHOWN SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED ON PLANS. WHERE SLOPES LESS THAN 1/4" PER FOOT ARE INDICATED, CONTRACTOR SHALL SLOPE NEW PIPING UNIFORMLY BETWEEN UPPER TERMINAL OF PIPE AND THE POINT OF CONNECTION TO THE SITE PIPING (AS INDICATED ON THE CIVIL PLANS) TO ACHIEVE MAXIMUM SLOPE POSSIBLE AND IN NO CASE SHALL THE PIPING BE SLOPED LESS THAN THE MINIMUM INDICATED.
17. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
18. PROVIDE FUSION JOINT POLYPROPYLENE PIPING ON ALL GREASE WASTE, ACID WASTE & ACID VENT PIPING. INSTALL AND TEST PER MANUFACTURER GUIDELINES.
19. ALL QUANTITIES SHOWN ON CALCULATION TABLES ARE STRICTLY INTENDED FOR DESIGN CALCULATIONS ONLY, IT SHALL NOT BE CONSTRUED THAT SUCH QUANTITIES CAN BE USED FOR BIDDING/ESTIMATION PURPOSES.
20. PROVIDE INSULATION ON ALL CONDENSATE DRAINS INSIDE BUILDING.
21. ANY MATERIAL REQUIRED FOR WORK NOT READILY AVAILABLE FOR PURCHASE SHALL HAVE LEAD TIME INFORMATION INDICATED ON THE SUBMITTALS. SUCCESSFUL PROCUREMENT OF ALL MATERIALS REQUIRED FOR THE COMPLETION OF WORK SHALL BE ASCERTAINED BY CONTRACTOR PRIOR TO SCHEDULING OF WORK.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

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

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

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

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

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

MP ☐ MD ☐ PP ☒ E ☐ OPTION 1: PROJECT-SPECIFIC DESIGN

MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL

MP ☐ MD ☐ PP ☐ E ☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

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PROJECT

LEDESMA ES MODERNIZATION

Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - EDG/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER — RYAN CELAYA — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: _____

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MILESTONES

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SHEET

PLUMBING COVER SHEET

DATE 12.29.2025

JOB # 2025014

SHEET #

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PLUMBING FIXTURE SPECIFICATION & CONNECTION SCHEDULE

ADA	SYMBOL	FIXTURE	FIXTURE MANUFACTURER AND MODEL No.	FAUCET OR VALVE MANUFACTURER AND MODEL No.	TRIM MANUFACTURER AND MODEL No.	REMARKS	VENT	WASTE		COLD WATER		HOT WATER	
								BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
	WC-1	WATER CLOSET WALL MOUNTED FLUSH VALVE ACCESSIBLE	"ZURN" HET NO. Z5615-BWL, 1.28 GPF WALL HUNG, VITREOUS CHINA, ELONGATED, SIPHON JET ACTION, 1-1/2" TOP SPUD.	"SLOAN" REGAL 111-XL 1.28, ADA COMPLIANT, 1.28 GPF (MANUAL)	SEAT: "ZURN" MODEL Z5955SS-EL-AM-STS OR "CHURCH" MODEL 295SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR. CARRIER: "J.R. SMITH" 100 OR 200 SERIES OR "ZURN" Z1203 AND Z1204 SERIES PROVIDE REAR SUPPORT LUG AND ANCHOR FOOT ASSEMBLY.	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/4"	1"	--	--
	WC-2	WATER CLOSET WALL MOUNTED FLUSH VALVE STANDARD	"ZURN" HET NO. Z5615-BWL, 1.28 GPF WALL HUNG, VITREOUS CHINA, ELONGATED, SIPHON JET ACTION, 1-1/2" TOP SPUD.	"SLOAN" REGAL 111-XL 1.28, ADA COMPLIANT, 1.28 GPF (MANUAL)	SEAT: "ZURN" MODEL Z5955SS-EL-AM-STS OR "CHURCH" MODEL 295SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR. CARRIER: "J.R. SMITH" 100 OR 200 SERIES OR "ZURN" Z1203 AND Z1204 SERIES PROVIDE REAR SUPPORT LUG AND ANCHOR FOOT ASSEMBLY.	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/4"	1"	--	--
	UR-1	URINAL WALL MOUNTED FLUSH VALVE ACCESSIBLE	"ZURN" OMNI-FLO NO. Z5755-U, 0.125 GPF WALL HUNG, VITREOUS CHINA, SIPHON JET ACTION. 3/4" TOP SPUD, 2" THREADED OUTLET.	"SLOAN" REGAL 186-0.125-XL, 0.125 GPF (MANUAL) POLISHED CHROME	CARRIER: "ZURN" Z1222 OR EQUAL	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS.	1 1/2"	2"	2"	1-1/2"	3/4"	--	--
	L-1	LAVATORY WALL MOUNTED HOT AND COLD WATER STD/ACCESSIBLE	"ZURN" NO. Z5344, WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 20" x 18" D SHAPED BOWL.	"ZURN" Z86500-XL-3M, COLOR CODED METERING HANDLE, 4" LONG LAVATORY FAUCET, CHROME PLATED SOLID BRASS CONSTRUCTION, 0.5 GPM MAX AERATOR, ADA COMPLIANT.	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL. CARRIER: "ZURN" Z1231 OR EQUAL	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1 1/2"	2"	1 1/2"	3/4"	1/2"	3/4"	1/2"
	L-2	LAVATORY WALL MOUNTED COLD WATER STD/ACCESSIBLE	"ZURN" NO. Z5340, WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 20" x 18" D SHAPED BOWL.	"CHICAGO" 857-E2805-665PSHAB TAPERED HANDLE FAUCET, PUSH-BUTTON TYPE. MODEL E2805 VANDAL RESISTANT ECONO-FLO SPRAY OUTLET, 0.5 GPM FLOW RESTRICTOR. ADA COMPLIANT	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL. CARRIER: "ZURN" Z1231 OR EQUAL	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1-1/2"	2"	1-1/2"	3/4"	1/2"	-	-
	DF-1	DRINKING FOUNTAIN WALL MOUNTED STD/ACCESSIBLE DUAL HEIGHT W/BOTTLE FILLER	"ELKAY" MODEL LVRCTLDDMWSK, STAINLESS STEEL DUAL HEIGHT, WALL MOUNTED STAINLESS STEEL BACK PANEL. WITH BOTTLE FILLER.	INTEGRAL	WITH P-TRAP	PROVIDE MANUFACTURER'S INTERNAL SUPPORT SYSTEM. WHERE INSTALLED ON CONCRETE OR CMU WALL, PROVIDE TWO MOUNTING PLATES AND INSTALL WITH ONE PLATE ON EACH SIDE OF WALL. SET AT HEIGHT INDICATED ON ARCH DRAWINGS.	1-1/2"	2"	1-1/2"	3/4"	1/2"	-	-
	FD	FLOOR DRAIN	GENERAL SERVICE FD - ZURN MODEL Z-415, OR EQUAL, WITH TYPE "B" STRAINER FOR EXPOSED CONCRETE AND TYPE "S" STRAINER FOR TILE FLOOR. PROVIDE BRONZE TRIM. FD IN COMPOSITION TYPE FLOORS - ZURN MODEL Z-415, OR EQUAL. WITH TYPE SL STRAINER. FD IN RESINOUS/EPOXY TYPE FLOORS - ZURN MODEL Z-415BL, OR EQUAL, NICKEL BRONZE WITH ADJUSTABLE STRAINER. OTHER APPROVED EQUAL MANUFACTURERS INCLUDE: JAY R. SMITH, WATTS & MIFAB.				2"	2"	2"	-	-	-	-
	HB	HOSE BIBB	INTERIOR WALL MOUNTED - WOODFORD MODEL B65 OR EQUAL.	WITH INTEGRAL VACUUM BREAKER PROTECTED, CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND REMOVABLE KEY HANDLE.		SET HEIGHT AT 18" ABOVE FINISHED FLOOR	-	-	-	1"	3/4"	-	-
	TP	TRAP PRIMER	MIFAB "M-500" SERIES, REQUIRES 3PSI DROP TO ACTIVATE.			PROVIDE ACCESS PANEL SEE DETAIL 3/P6.01	-	-	-	1/2"	1/2"	-	-
	WHA	WATER HAMMER ARRESTOR	SEE SPECIFICATIONS ON SHEET P0.02										

GENERAL NOTES:

1. WATER SUPPLIES AND STOPS:
   - A. PROVIDE 85 PERCENT IPS RED BRASS PIPE, SECURELY ANCHORED TO BUILDING CONSTRUCTION, FOR EACH CONNECTION TO FAUCETS, STOPS, HOSE BIBBS, ETC. EACH FIXTURE, EXCEPT HOSE BIBBS, SHALL HAVE A STOP VALVE INSTALLED ON WATER SUPPLY LINES TO PERMIT REPAIRS WITHOUT SHUTTING OFF WATER MAINS.
   - B. PROVIDE ALL WATER SUPPLIES TO FIXTURES WITH COMPRESSION SHUT-OFF STOPS WITH IPS INLETS WITH THREADED BRASS NIPPLES AT PIPE CONNECTION AND LOCK SHIELD LOOSE KEY. PROVIDE COMBINATION FIXTURES WITH COMPRESSION STOP AND IPS INLET ON EACH WATER SUPPLY FITTING. PROVIDE LOOSE KEY HANDLE FOR EACH STOP.
   - C. PROVIDE 1/2 INCH RISER TUBES WITH REDUCING COUPLING FOR ALL FIXTURES, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION SECTION 22 40 00.

2. PIPE, PLUMBING FITTINGS, FIXTURES, SOLDER AND FLUX SHALL COMPLY WITH LEAD FREE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCTS LISTED AND LABELED AS COMPLYING WITH NSF 61, ANNEX G, OR PROVIDE OTHER EVIDENCE OF COMPLIANCE WITH THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCT SUBMITTAL INFORMATION PROVING COMPLIANCE WITH LEAD FREE REQUIREMENTS. ALSO SEE GENERAL NOTES ON SHEET P0.1 AND SPECIFICATION SECTIONS, 22 00 50, 22 10 00 AND 22 40 00.

WATER HAMMER ARRESTOR

PDI-WH201

P.D.I. UNITS	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330
"ZURN"	#100	#200	#300	#400	#500	#600
"JR SMITH"	5005	5010	5020	5030	5040	5050

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PROJECT

LEDESMA ES MODERNIZATION

Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - ED/G/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER
RYAN CELAYA
M 34234
EXPIRES 12/31/26
MECHANICAL
STATE OF CALIFORNIA

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SHEET

PLUMBING FIXTURE SCHEDULE

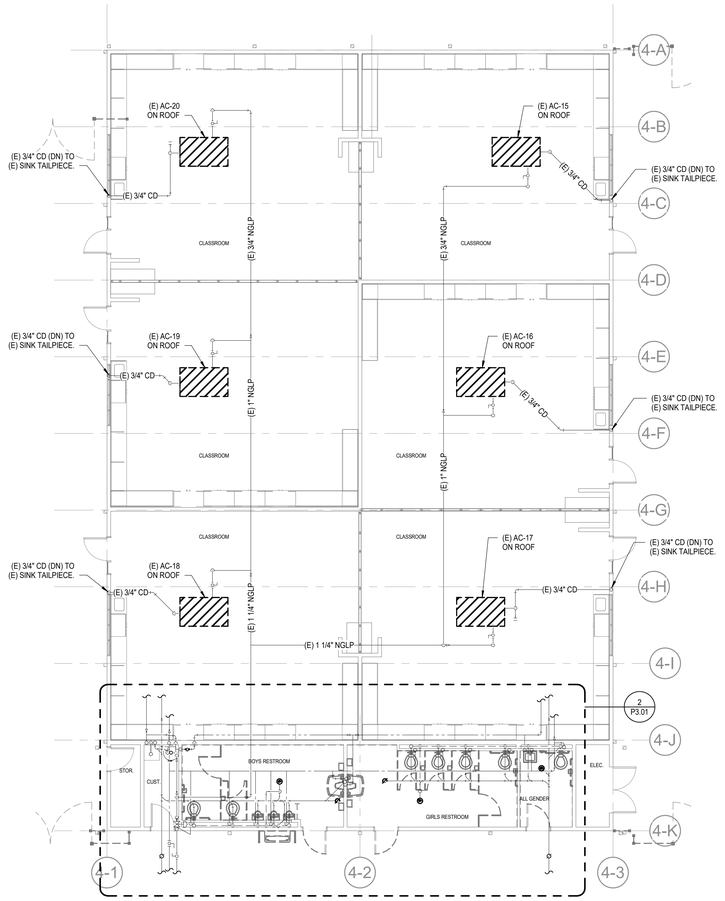
DATE 12.29.2025

JOB # 2025014

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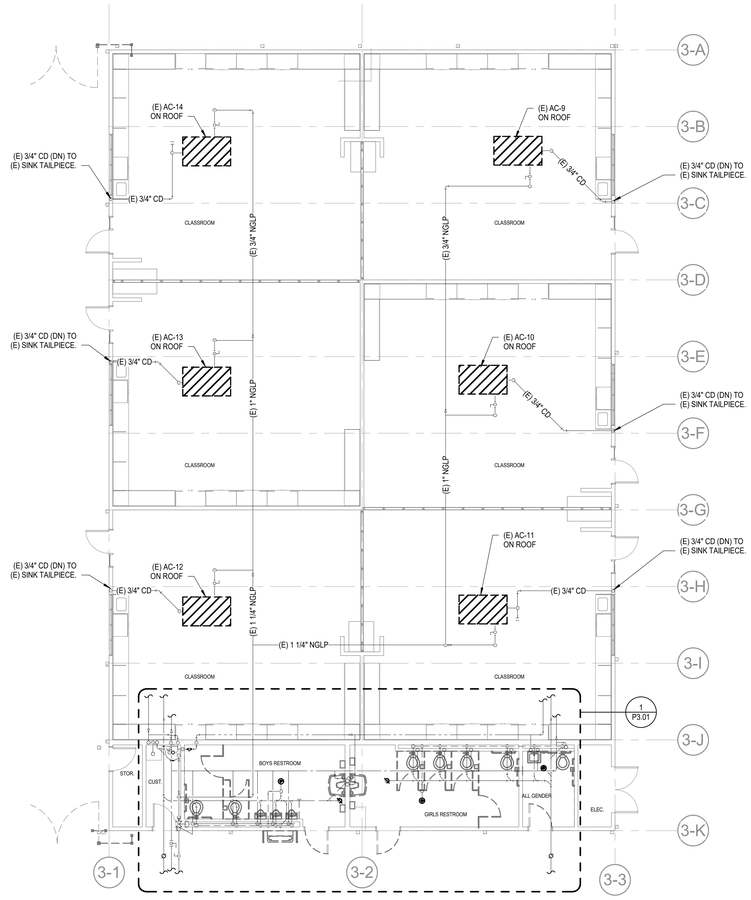
P0.02

12/23/2025 1:22:52 PM



2 P2.02 PLUMBING - BLDG 400 - DEMO FLOOR PLAN

SCALE: 1/8" = 1'-0"



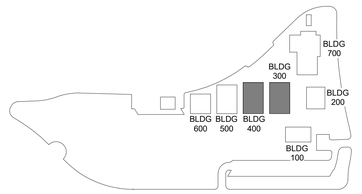
1 P2.02 PLUMBING - BLDG 300 - DEMO FLOOR PLAN

SCALE: 1/8" = 1'-0"

GENERAL DEMO SHEET NOTES

1. EXISTING PLUMBING LAYOUT SHOWN HEREWITH ARE BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. ACTUAL CONDITIONS MAY BE DIFFERENT ESPECIALLY FOR THOSE WITHIN CONCEALED SPACES AND/OR UNDERGROUND. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION, THRU VISUAL OBSERVATIONS, POT-HOLING, RADAR INSPECTION OR OTHER MEANS NECESSARY TO COMPLETE WORK, WELL AHEAD OF NEW PIPE INSTALLATION. SCHEDULE WORK ACCORDINGLY TO PROVIDE ENOUGH TIME TO FIND SOLUTIONS SHOULD VERIFIED INFORMATION BE DIFFERENT FROM HEREWITH. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES, AND ON AS-BUILT DRAWINGS.
2. FOR CONNECTIONS TO EXISTING PIPE FOUND SMALLER THAN WHAT IS SHOWN ON PLANS, FIELD VERIFY TO LOCATE & CONNECT TO CLOSEST LARGEST PIPE UPSTREAM FOR SUPPLY PIPING. FOR DRAIN PIPING, FIELD VERIFY TO LOCATE & CONNECT TO CLOSEST LARGEST PIPE OF SUFFICIENT DEPTH DOWNSTREAM. REFLECT ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES.
3. CONTRACTOR SHALL REFLECT EXISTING AND/OR ABANDONED PIPING ON THE AS-BUILT DRAWINGS IF FOUND DIFFERENTLY FROM DESIGN PLANS FOR OWNER'S REFERENCE AND RECORD KEEPING.
4. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL REMOVE ALL INACTIVE PLUMBING PIPING ENCOUNTERED/VISIBLE WITHIN WORK AREA. CAP BEHIND ARCHITECTURAL FINISHES. REFLECT CAP LOCATIONS ON AS-BUILT DRAWINGS.
5. PATCH ALL UNUSED WALL & ROOF PENETRATIONS TO MATCH EXISTING. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
6. PROVIDE SLAB/WALL DEMOLITION WORK AS NECESSARY TO REMOVE, REPLACE, REROUTE OR ADD PIPING. PATCH BACK TO MATCH EXISTING.
7. REUSE EXISTING SLEEVE PENETRATIONS THRU DECK WHEN NEEDED, IF AVAILABLE AND IF POSSIBLE. AVOID REBARS WHEN PROVIDING NEW SLEEVE PENETRATIONS. INVESTIGATE AND MAP REBAR LOCATIONS PRIOR TO CORING OR SAWCUTTING THRU EXISTING OR INSTALLED SLAB, WALL OR FOOTING. SEAL ALL PENETRATIONS. SEE SPECIFICATIONS FOR MORE INFORMATION. USE ALL GATHERED DATA IN PROVIDING SHOP DRAWINGS. SHOP DRAWINGS SHALL BE COORDINATED BETWEEN TRADES.
8. WHEN CONNECTING TO EXISTING UTILITIES, CONTRACTOR TO ENSURE THAT THE EXISTING PIPE IS ACTIVE PRIOR TO CONNECTION. FIELD VERIFY AT SITE. FOR DRAINS LINES, USE PIPE CAMERA. REPORT BACK FOR ANY ISSUES.
9. PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES & EQUIPMENT TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD.
10. COORDINATE CONSTRUCTION WORK AND SCHEDULE OF WORK WITH SCHOOL DISTRICT. CONTRACTOR SHALL INCLUDE IN BID MEANS AND/OR METHODS REQUIRED FOR THE WORK INCLUDING ANY REQUIRED SERVICE SHUT DOWNS, TEMPORARY LINES, ROAD CLOSURES, SPECIAL INSPECTIONS, ETC. TO ACCOMPLISH SCOPE. SCHEDULING OF WORK SHALL BE AMICABLE BETWEEN OWNER AND CONTRACTOR.

KEYPLAN



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tel: (408)-300-5160
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PROJECT

LEDESMA ES MODERNIZATION

Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - EDG/LY PM - DESIGN TEAM
250163.00 PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER
RYAN CELAYA
M 34234
EXPIRES 12/31/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED:

STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

No.	Description	Date
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90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

PLUMBING DEMOLITION FLOOR PLAN - BLDG 300 & 400

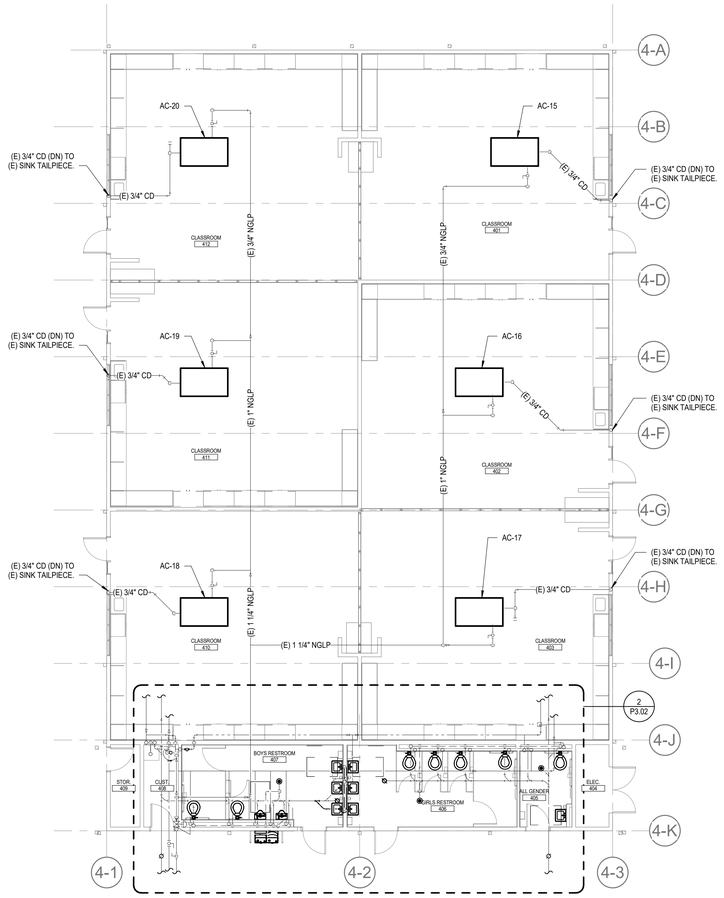
DATE 12.29.2025

JOB # 2025014

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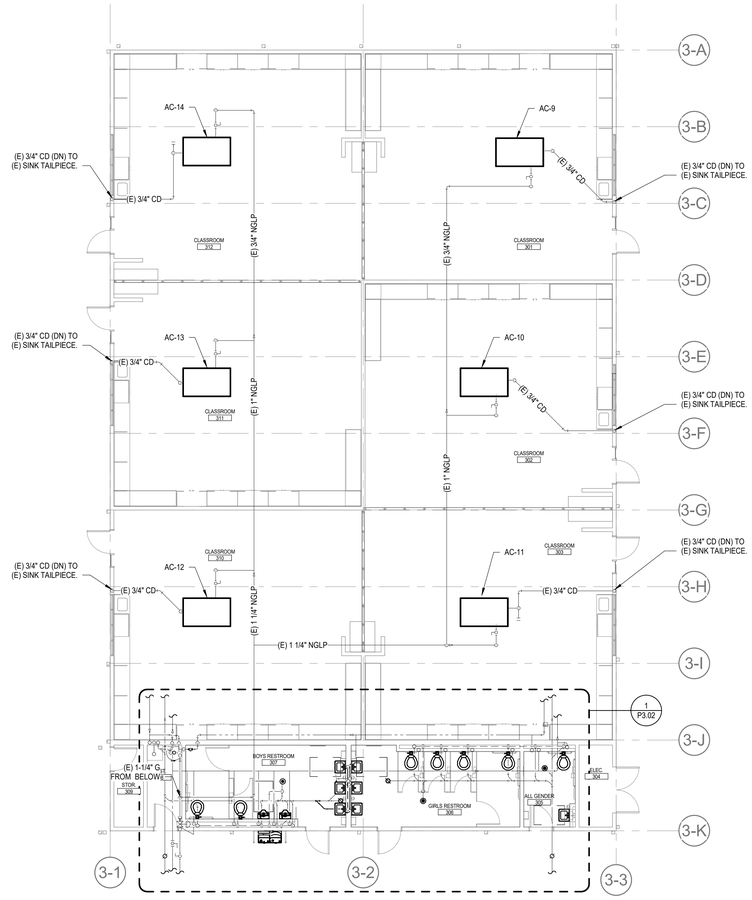
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2 PLUMBING - BLDG 400 - FLOOR PLAN

2 / P2.05 SCALE: 1/8" = 1'-0"



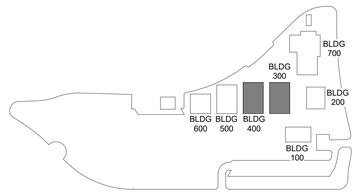
1 PLUMBING - BLDG 300 - FLOOR PLAN

1 / P2.05 SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

1. ANY MATERIAL REQUIRED FOR WORK NOT READILY AVAILABLE FOR PURCHASE SHALL HAVE LEAD TIME INDICATED ON THE BID AND ON THE SUBMITTALS. SUCCESSFUL PROCUREMENT OF ALL MATERIALS REQUIRED FOR THE COMPLETION OF WORK SHALL BE ASCERTAINED BY CONTRACTOR PRIOR TO SCHEDULING OF WORK.
2. EXISTING PLUMBING LAYOUT ARE BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. ACTUAL CONDITIONS MAY BE DIFFERENT ESPECIALLY FOR THOSE WITHIN CONCEALED SPACES AND/OR UNDERGROUND. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION, THRU VISUAL OBSERVATIONS, POT-HOLING, RADAR INSPECTION OR OTHER MEANS NECESSARY TO COMPLETE WORK, WELL AHEAD OF NEW PIPE INSTALLATION. SCHEDULE WORK ACCORDINGLY TO PROVIDE ENOUGH TIME TO FIND SOLUTIONS SHOULD VERIFIED INFORMATION BE DIFFERENT FROM HEREWITH. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES, AND ON AS-BUILT DRAWINGS.
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5. CONTRACTOR SHALL FOLLOW GENERAL PIPE ROUTE AND VALVE LOCATIONS, GENERAL ORDER, ORIENTATION AND FLOW DIRECTION OF SYSTEM COMPONENTS SHOWN ON PLANS. ADJUST PIPE ELEVATIONS OR ROUTING TO AVOID STRUCTURAL COMPONENTS & OTHER BUILDING COMPONENTS WHEN POSSIBLE. IF NECESSARY & ONCE AMICABLE BETWEEN TRADES. COORDINATE ALL SHOP DRAWINGS AMONGST TRADES PRIOR TO ANY PIPE FABRICATION OR INSTALLATION.
6. CONTRACTOR SHALL PREPARE AND MAINTAIN AS-BUILT DRAWINGS OF ALL PLUMBING SYSTEMS AS INSTALLED AT THE JOB SITE, DRAWN BY CONTRACTOR OVER THE DESIGN PLANS. THEY SHALL BE READILY AVAILABLE TO VIEW & INSPECT UPON REQUEST BY PROJECT INSPECTOR, ENGINEER OR OWNER. AS-BUILTS SHALL CLEARLY SHOW CHANGES, REVISIONS, CLARIFICATIONS & SUBSTITUTIONS INSTALLED IN THE PROJECT INCLUDING BUT NOT LIMITED TO: EXACT PIPE ROUTE ESPECIALLY THOSE CONCEALED AND/OR UNDERGROUND, UNDERGROUND PIPE ELEVATIONS, PIPE SIZES, DIMENSIONS FROM WALLS/GRID LINES OF ANY REROUTED PIPE, RFI/CCD/ASI TAG AS REFERENCE TO WHERE CHANGES OCCURRED FROM IF ANY, AND ANY INFORMATION THAT MAY CLARIFY HOW SYSTEMS & COMPONENTS HAD BEEN INSTALLED OR HOW IT DIFFERS FROM ORIGINAL DESIGN PLANS. REFERENCE TO AN RFI/CCD/ASI ALONE SHALL NOT CONSTITUTE COMPLETE AS-BUILT DRAWINGS. AS-BUILT DRAWINGS SHALL BE IN HARD COPY AND DIGITAL (PDF) FORMAT. AS-BUILTS AND QUALITY OF SUCH ARE CRITICAL REQUIREMENTS FOR MAINTENANCE UPKEEP AND FOR USE AS BASIS FOR POSSIBLE FUTURE CONSTRUCTION IMPROVEMENTS FUTURE DESIGNER/CONTRACTOR WOULD RELY ON. CONTRACTOR SHALL PROVIDE "AS-BUILT" TAG AND CONTRACTOR INFORMATION ON ALL AS-BUILT SHEETS.
7. CONNECT WASTE, VENT & COLD WATER LINES TO ALL NEW FIXTURES. SEE FIXTURE SCHEDULE FOR BRANCH AND FIXTURE OUTLET/INLET CONNECTION SIZES.
8. HORIZONTAL DRAINAGE PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND A UNIFORM SLOPE OF NOT LESS THAN 2% TOWARD THE POINT OF DISPOSAL UNLESS IMPRACTICAL DUE TO BUILDING'S STRUCTURAL FEATURES, OR IF CONNECTING TO EXISTING PIPE AT ITS EXISTING UPSTREAM/DOWNSTREAM DEPTH IS IMPOSSIBLE WITHOUT SLOPING LESS THAN 2%. IN SUCH CONDITIONS, PIPE CAN BE SLOPED AT NO LESS THAN 1%. COORDINATE SHOP DRAWINGS AMONGST TRADES PRIOR TO FABRICATION AND INSTALLATION THEN REFLECT ALL CHANGES ON THE AS-BUILT DRAWINGS.
9. COORDINATE ALL CONNECTION POINTS AMONGST TRADES AT SITE PRIOR TO FABRICATION OR INSTALLATION.
10. NO PLUMBING PIPING SHALL BE INSTALLED UNDER OR THROUGH SPREAD FOOTINGS, UNLESS OTHERWISE SPECIFIED ON STRUCTURAL DRAWINGS. CLOSELY COORDINATE PENETRATIONS THRU STRUCTURAL MEMBERS AMONGST TRADES AT THE SITE THRU SHOP DRAWINGS PRIOR TO CONSTRUCTION. PENETRATION THRU CONCRETE FOUNDATION SHALL BE PROPERLY SLEEVED WHEN REQUIRED WHERE ALLOWED. ALL NOTCHES AND HOLES ALLOWED ON ABOVE GROUND COMPONENTS PER STRUCTURAL DRAWINGS SHALL BE NEATLY BORED. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

KEYPLAN



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CONSULTANT

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250163.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER — RYAN CELAYA — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: _____

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SHEET

PLUMBING FLOOR PLAN - BLDG 300 & 400

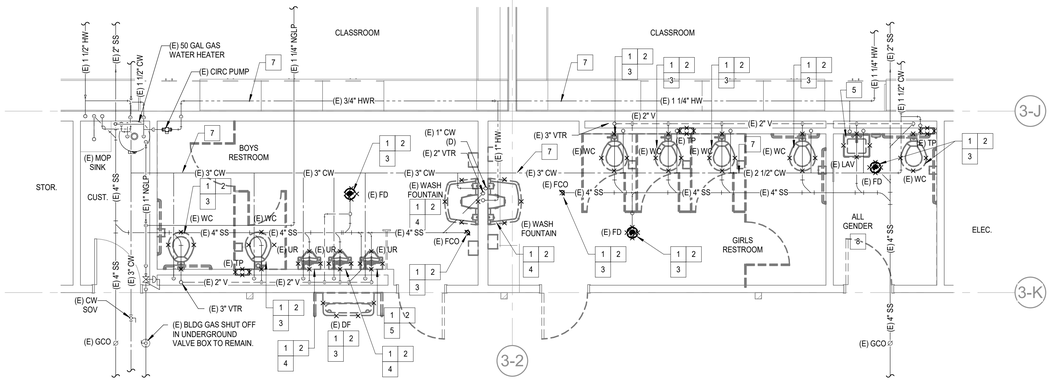
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JOB # 2025014

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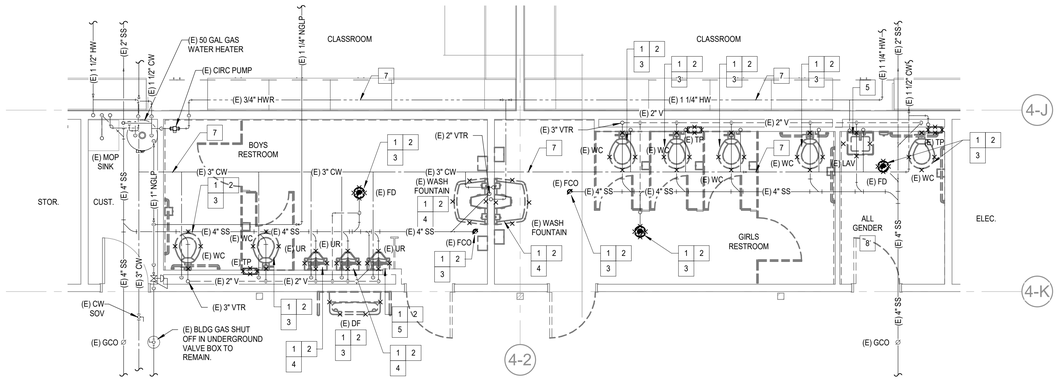
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1 P3.01 PLUMBING - BLDG 300 - ENLARGED DEMO PLAN

SCALE: 1/4" = 1'-0"



2 P3.01 PLUMBING - BLDG 400 - ENLARGED DEMO PLAN

SCALE: 1/4" = 1'-0"

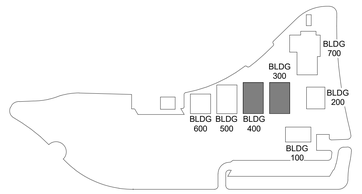
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4. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL REMOVE ALL INACTIVE PLUMBING PIPING ENCOUNTERED/VISIBLE WITHIN WORK AREA. CAP BEHIND ARCHITECTURAL FINISHES. REFLECT CAP LOCATIONS ON AS-BUILT DRAWINGS.
5. PATCH ALL UNUSED WALL & ROOF PENETRATIONS TO MATCH EXISTING. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
6. PROVIDE SLAB/WALL DEMOLITION WORK AS NECESSARY TO REMOVE, REPLACE, REROUTE OR ADD PIPING. PATCH BACK TO MATCH EXISTING.
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DEMOLITION FLOOR PLAN KEYNOTES

1. VERIFY EXACT SIZE & LOCATION OF EXISTING PIPE. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES PRIOR TO ANY PIPE INSTALLATION. REFLECT ON AS-BUILT DRAWINGS IF DIFFERENT FROM HEREWITH.
2. VERIFY EXACT LOCATION OF ALL BUILDING COMPONENTS THAT MAY OBSTRUCT PATH OF NEW PIPING. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES PRIOR TO ANY INSTALLATION. PREPARE AREA FOR NEW WORK. DO NOT PROCEED WITH NEW WORK IF PATH FOR NEW PIPE IS NOT ESTABLISHED AND IF CONNECTION TO EXISTING UTILITIES ARE NOT FEASIBLE.
3. REMOVE & DISPOSE OF EXISTING PLUMBING FIXTURE AND RELATED, PIPING, SUPPORTS & APPURTENANCES. UNLESS SHOWN OTHERWISE, PROVIDE TEMPORARY CAP ON EXISTING UTILITIES AND PREPARE AREA FOR NEW FIXTURE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF THE NEW FIXTURE.
4. REMOVE & DISPOSE OF EXISTING PLUMBING FIXTURE AND RELATED SUPPORTS & APPURTENANCES. UNLESS SHOWN OTHERWISE, PROVIDE TEMPORARY CAP AND PREPARE AREA TO EXTEND AND/OR ADJUST UTILITIES TO NEW FIXTURE LOCATION WHEN NEEDED. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT.
5. REMOVE & DISPOSE OF EXISTING PLUMBING FIXTURE OR DRAIN IN ITS ENTIRETY, INCLUDING ANY RELATED SUPPORTS & APPURTENANCES. UNLESS SHOWN OTHERWISE, CAP UNUSED PIPING ABOVE, BELOW OR BEHIND ARCHITECTURAL FINISHES. SEE ARCHITECTURAL DEMO SHEETS FOR MORE INFORMATION.
6. REMOVE ALL UNUSED OR INACTIVE UTILITIES EXPOSED WITHIN WORK AREA. CAP ALL UNUSED PIPING BEHIND OR BELOW ARCHITECTURAL FINISHES. REFLECT ON AS-BUILT DRAWINGS.
7. EXISTING PIPING UNDER FLOOR WITHIN CRAWL SPACE.
8. DEDUCTIVE ALTERNATE 1: ALL WORK WITHIN ALL GENDER RESTROOM TO BE REMOVED.

KEYPLAN



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www.aedisarchitects.com
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San Jose, CA 95113
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CONSULTANT

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M 34234
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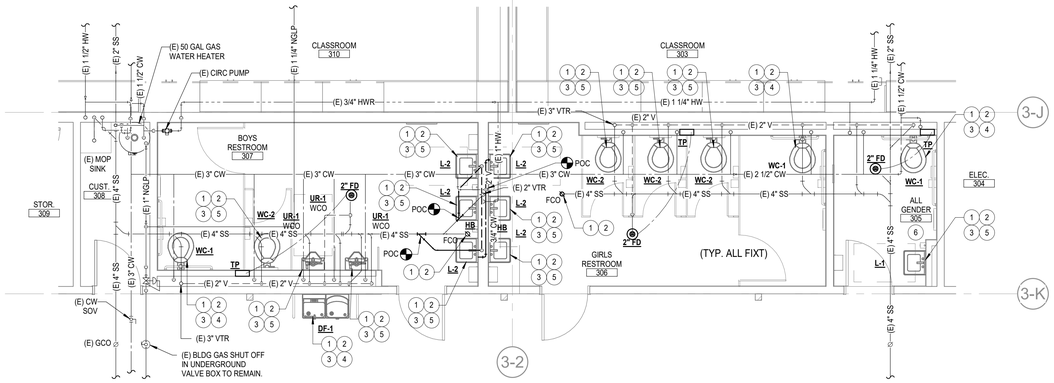
PLUMBING DEMOLITION ENLARGED PLANS

DATE 12.29.2025

JOB # 2025014

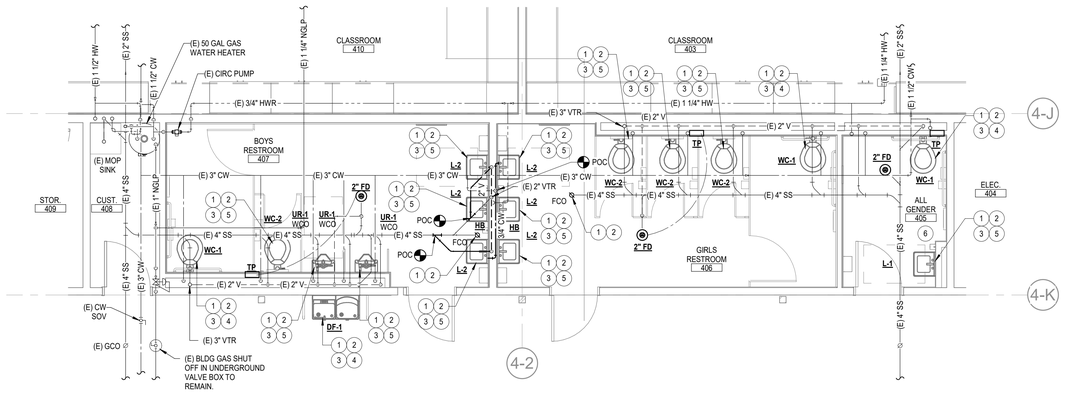
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12/23/2025 1:22:58 PM



1 P3.02 PLUMBING - BLDG 300 - ENLARGED FLOOR PLAN

SCALE: 1/4" = 1'-0"



2 P3.02 PLUMBING - BLDG 400 - ENLARGED FLOOR PLAN

SCALE: 1/4" = 1'-0"

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6. CONTRACTOR SHALL PREPARE AND MAINTAIN AS-BUILT DRAWINGS OF ALL PLUMBING SYSTEMS AS INSTALLED AT THE JOB SITE, DRAWN BY CONTRACTOR OVER THE DESIGN PLANS. THEY SHALL BE READILY AVAILABLE TO VIEW & INSPECT UPON REQUEST BY PROJECT INSPECTOR, ENGINEER OR OWNER. AS-BUILTS SHALL CLEARLY SHOW CHANGES, REVISIONS, CLARIFICATIONS & SUBSTITUTIONS INSTALLED IN THE PROJECT INCLUDING BUT NOT LIMITED TO: EXACT PIPE ROUTE ESPECIALLY THOSE CONCEALED AND/OR UNDERGROUND, UNDERGROUND PIPE ELEVATIONS, PIPE SIZES, DIMENSIONS FROM WALLS/GRID LINES OF ANY REROUTED PIPE, RFI/CCD/ASI TAG AS REFERENCE TO WHERE CHANGES OCCURRED FROM IF ANY, AND ANY INFORMATION THAT MAY CLARIFY HOW SYSTEMS & COMPONENTS HAD BEEN INSTALLED OR HOW IT DIFFERS FROM ORIGINAL DESIGN PLANS. REFERENCE TO AN RFI/CCD/ASI ALONE SHALL NOT CONSTITUTE COMPLETE AS-BUILT DRAWINGS. AS-BUILT DRAWINGS SHALL BE IN HARD COPY AND DIGITAL (PDF) FORMAT. AS-BUILTS AND QUALITY OF SUCH ARE CRITICAL REQUIREMENTS FOR MAINTENANCE UPKEEP AND FOR USE AS BASIS FOR POSSIBLE FUTURE CONSTRUCTION IMPROVEMENTS FUTURE DESIGNER/CONTRACTOR WOULD RELY ON. CONTRACTOR SHALL PROVIDE "AS-BUILT" TAG AND CONTRACTOR INFORMATION ON ALL AS-BUILT SHEETS.

7. CONNECT WASTE, VENT & COLD WATER LINES TO ALL NEW FIXTURES. SEE FIXTURE SCHEDULE FOR BRANCH AND FIXTURE OUTLET/INLET CONNECTION SIZES.

8. HORIZONTAL DRAINAGE PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND A UNIFORM SLOPE OF NOT LESS THAN 2% TOWARD THE POINT OF DISPOSAL UNLESS IMPRACTICAL DUE TO BUILDING'S STRUCTURAL FEATURES, OR IF CONNECTING TO EXISTING PIPE AT ITS EXISTING UPSTREAM/DOWNSTREAM DEPTH IS IMPOSSIBLE WITHOUT SLOPING LESS THAN 2%. IN SUCH CONDITIONS, PIPE CAN BE SLOPED AT NO LESS THAN 1%. COORDINATE SHOP DRAWINGS AMONGST TRADES PRIOR TO FABRICATION AND INSTALLATION THEN REFLECT ALL CHANGES ON THE AS-BUILT DRAWINGS.

9. COORDINATE ALL CONNECTION POINTS AMONGST TRADES AT SITE PRIOR TO FABRICATION OR INSTALLATION.

10. PROTECT ALL INSTALLED DRAINS, DRAIN STRAINERS, EQUIPMENT COMPONENTS, FIXTURES ESPECIALLY THOSE WITH STAINLESS STEEL SURFACES FROM DAMAGE. PLUMBING SYSTEM SHALL BE CLEAN, UNDAMAGED, WORKING AND IN NEW CONDITION UP TO HAND OFF TO OWNER. SEE SPECIFICATIONS FOR MORE INFORMATION ON CLOSING DOC.

11. NO PLUMBING PIPING SHALL BE INSTALLED UNDER OR THROUGH SPREAD FOOTINGS, UNLESS OTHERWISE SPECIFIED ON STRUCTURAL DRAWINGS. CLOSELY COORDINATE PENETRATIONS THRU STRUCTURAL MEMBERS AMONGST TRADES AT THE SITE THRU SHOP DRAWINGS PRIOR TO CONSTRUCTION AND WELL AHEAD OF CONCRETE FOUNDATION POUR. PENETRATION THRU CONCRETE FOUNDATION SHALL BE PROPERLY SLEEVED WHEN REQUIRED WHERE ALLOWED. COORDINATE DROPPING AND STEPPING FOOTINGS IF REQUIRED. ALL NOTCHES AND HOLES ALLOWED ON ABOVE GROUND COMPONENTS PER STRUCTURAL DRAWINGS SHALL BE NEATLY BORED. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

KEYNOTES

1. VERIFY PRECISE AND EXACT LOCATION OF EXISTING PIPE, PARTICULARLY THOSE INSIDE WALL CAVITIES, ABOVE CEILING OR UNDERGROUND. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES PRIOR TO ANY PIPE INSTALLATION. REFLECT ON AS-BUILT DRAWING IF DIFFERENT FROM HEREWITH.

2. VERIFY EXACT LOCATION OF ALL BUILDING COMPONENTS THAT MAY OBSTRUCT PATH OF NEW PIPING WELL AHEAD OF INSTALLATION. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS AND COORDINATE AMONGST TRADES PRIOR TO ANY PIPE INSTALLATION. REROUTE PIPING IF REQUIRED, REFLECT ON AS-BUILT DRAWINGS IF DIFFERENT FROM HEREWITH.

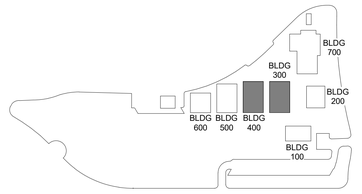
3. CLEAN AND FLUSH ALL EXISTING SEWER LINES DOWNSTREAM OF NEW FIXTURES TO 5FT OUTSIDE BUILDING.

4. CONNECT NEW PLUMBING FIXTURE TO EXISTING UTILITIES. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS, CLEARANCES AND OTHER INFORMATION. COORDINATE SHOP DRAWINGS PRIOR TO ANY INSTALLATION.

5. EXTEND OR ADJUST SEWER, VENT & WATER PIPING FROM NEAREST EXISTING PIPE OF ADEQUATE SIZE TO MATCH NEW FIXTURE CONFIGURATION. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, CLEARANCES AND OTHER INFORMATION. COORDINATE SHOP DRAWINGS AMONGST TRADES WELL AHEAD OF ANY INSTALLATION.

6. DEDUCTIVE ALTERNATE 1: ALL WORK WITHIN ALL GENDER RESTROOM TO BE REMOVED.

KEYPLAN



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PROJECT

LEDESMA ES MODERNIZATION

Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - EDG/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER
RYAN CELAYA
M 34234
EXPIRES 12/31/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED:

STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

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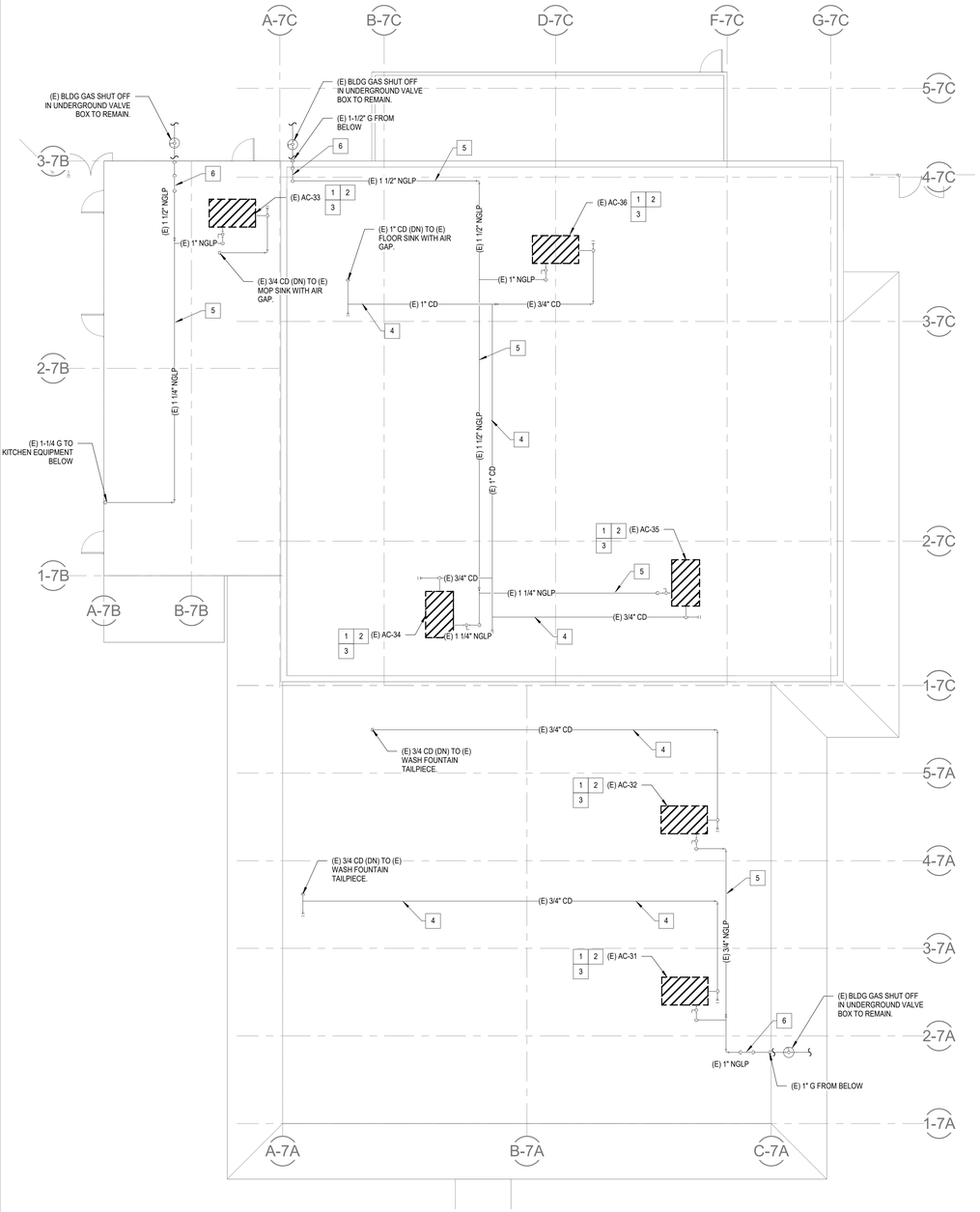
PLUMBING ENLARGED PLANS

DATE 12.29.2025

JOB # 2025014

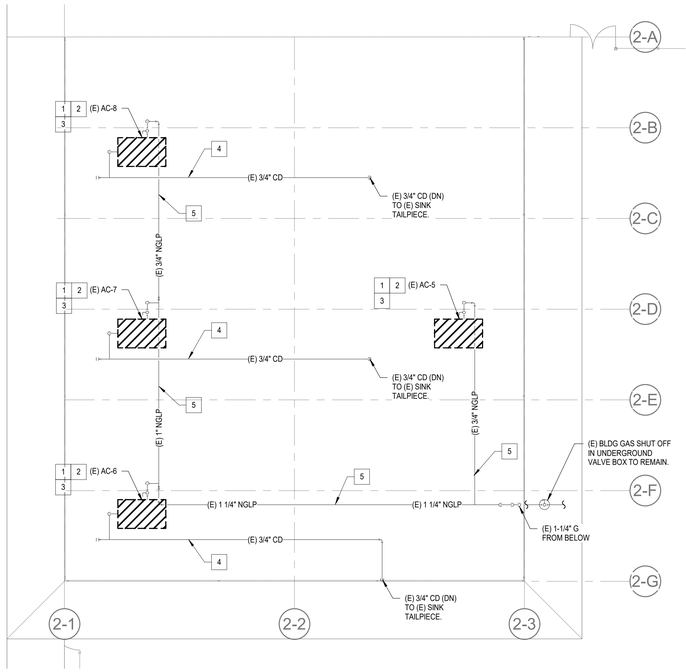
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12/23/2025 1:23:00 PM



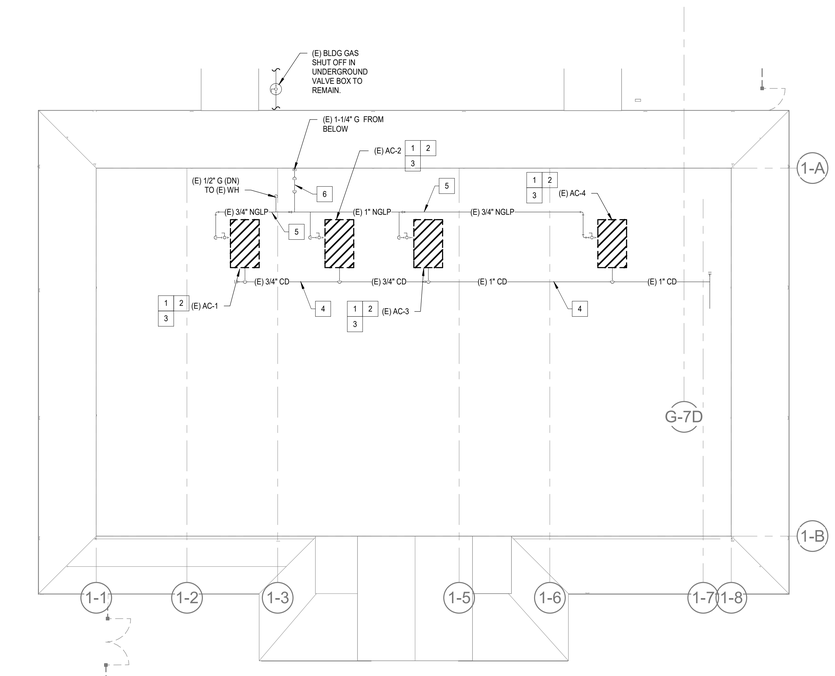
1 P5.01 PLUMBING - BUILDING 700 - DEMO ROOF PLAN

SCALE: 1/8" = 1'-0"



2 P5.01 PLUMBING - BLDG 200 - DEMO ROOF PLAN

SCALE: 1/8" = 1'-0"



3 P5.01 PLUMBING - BLDG 100 - DEMO ROOF PLAN

SCALE: 1/8" = 1'-0"

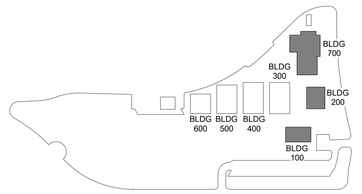
GENERAL SHEET NOTES

1. EXISTING PLUMBING LAYOUT SHOWN HEREWITH ARE BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. ACTUAL CONDITIONS MAY BE DIFFERENT ESPECIALLY FOR THOSE WITHIN CONCEALED SPACES AND/OR UNDERGROUND. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION, THRU VISUAL OBSERVATIONS, POT-HOLING, RADAR INSPECTION OR OTHER MEANS NECESSARY TO COMPLETE WORK, WELL AHEAD OF NEW PIPE INSTALLATION. SCHEDULE WORK ACCORDINGLY TO PROVIDE ENOUGH TIME TO FIND SOLUTIONS SHOULD VERIFIED INFORMATION BE DIFFERENT FROM HEREWITH. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES, AND ON AS-BUILT DRAWINGS.
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3. CONTRACTOR SHALL REFLECT EXISTING AND/OR ABANDONED PIPING ON THE AS-BUILT DRAWINGS IF FOUND DIFFERENTLY FROM DESIGN PLANS FOR OWNER'S REFERENCE AND RECORD KEEPING.
4. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL REMOVE ALL INACTIVE PLUMBING PIPING ENCOUNTERED/VISIBLE WITHIN WORK AREA. CAP BEHIND ARCHITECTURAL FINISHES. REFLECT CAP LOCATIONS ON AS-BUILT DRAWINGS.
5. PATCH ALL UNUSED WALL & ROOF PENETRATIONS TO MATCH EXISTING. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
6. PROVIDE SLAB/WALL DEMOLITION WORK AS NECESSARY TO REMOVE, REPLACE, REROUTE OR ADD PIPING. PATCH BACK TO MATCH EXISTING.
7. REUSE EXISTING SLEEVE PENETRATIONS THRU DECK WHEN NEEDED, IF AVAILABLE AND IF POSSIBLE. AVOID REBARS WHEN PROVIDING NEW SLEEVE PENETRATIONS. INVESTIGATE AND MAP REBAR LOCATIONS PRIOR TO CORING OR SAWCUTTING THRU EXISTING OR INSTALLED SLAB, WALL OR FOOTING. SEAL ALL PENETRATIONS. SEE SPECIFICATIONS FOR MORE INFORMATION. USE ALL GATHERED DATA IN PROVIDING SHOP DRAWINGS. SHOP DRAWINGS SHALL BE COORDINATED BETWEEN TRADES.
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9. PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES & EQUIPMENT TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD.
10. COORDINATE CONSTRUCTION WORK AND SCHEDULE OF WORK WITH SCHOOL DISTRICT. CONTRACTOR SHALL INCLUDE IN BID MEANS AND/OR METHODS REQUIRED FOR THE WORK INCLUDING ANY REQUIRED SERVICE SHUT DOWNS, TEMPORARY LINES, ROAD CLOSURES, SPECIAL INSPECTIONS, ETC. TO ACCOMPLISH SCOPE. SCHEDULING OF WORK SHALL BE AMICABLE BETWEEN OWNER AND CONTRACTOR.

DEMOLITION KEYNOTES

1. EXISTING AC UNIT TO BE REMOVED. DISCONNECT GAS LINE AND CONDENSATE DRAIN LINE. PREPARE CONNECTIONS TO NEW UNIT.
2. REMOVE CONDENSATE PIPING AND SUPPORTS AS NEEDED TO ALLOW INSTALLATION OF NEW AC UNIT.
3. ALL OTHER EXISTING ROOFTOP PIPING TO REMAIN. REMOVE EXISTING SUPPORTS AND PROTECT PIPE IN PLACE.
4. EXISTING CONDENSATE PIPE IN CEILING SPACE BELOW TO REMAIN.
5. EXISTING GAS PIPE IN CEILING SPACE BELOW TO REMAIN.
6. EXISTING GAS PRESSURE REGULATOR ON ROOF TO REMAIN.

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CONSULTANT

capital engineering
Rancho Cordova, California
RC - ED/G/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

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REGISTERED PROFESSIONAL ENGINEER — RYAN CELAYA — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

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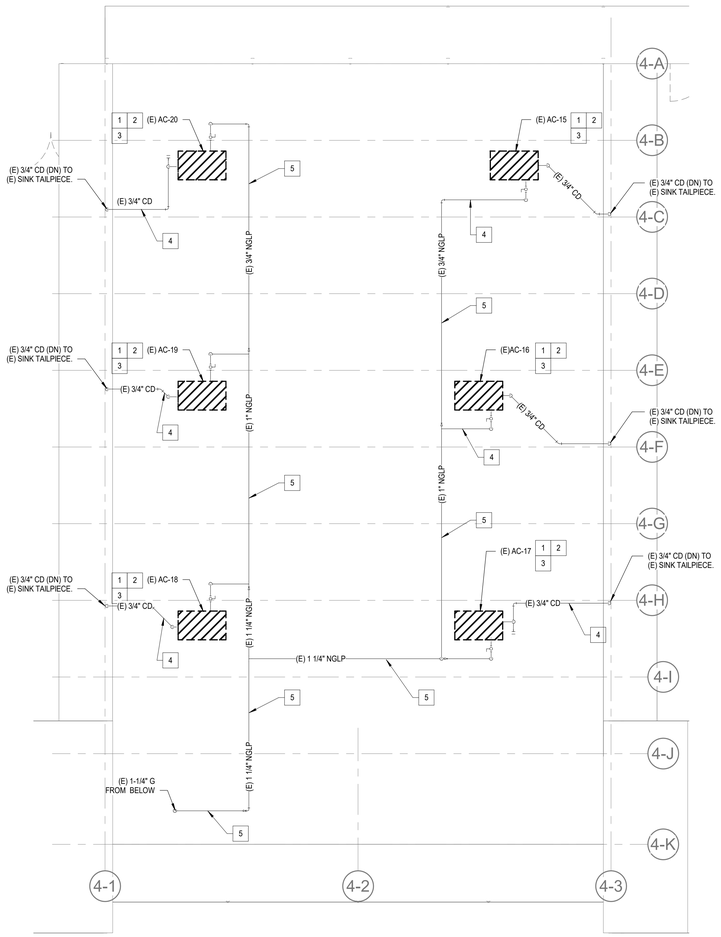
PLUMBING DEMOLITION ROOF PLANS - BLDG 100, 200 & 700

DATE 12.29.2025

JOB # 2025014

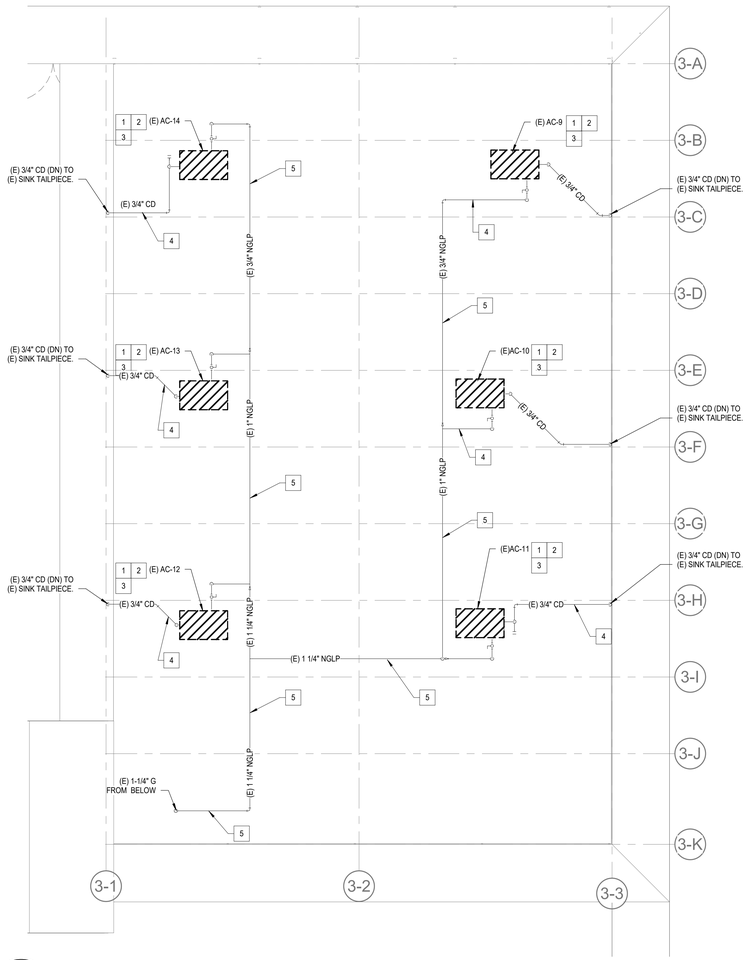
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12/23/2025 1:23:01 PM



2 P5.02 PLUMBING - BLDG 400 - DEMO ROOF PLAN

SCALE: 1/8" = 1'-0"



1 P5.02 PLUMBING - BLDG 300 - DEMO ROOF PLAN

SCALE: 1/8" = 1'-0"

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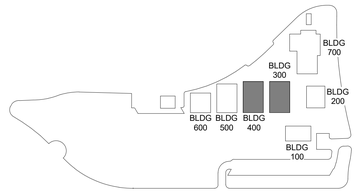
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CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - ED/G/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

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REGISTERED PROFESSIONAL ENGINEER
RYAN CELAYA
M 34234
EXPIRES 12/31/26
MECHANICAL
STATE OF CALIFORNIA

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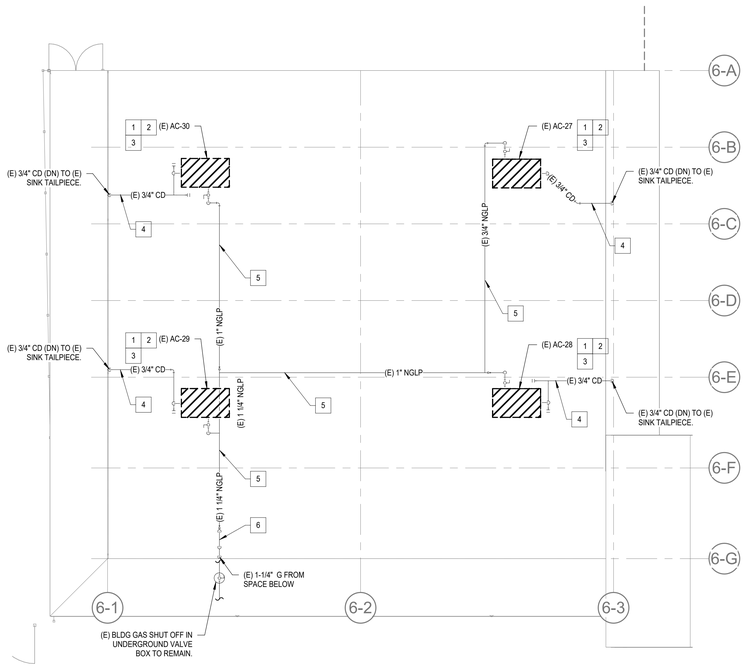
PLUMBING DEMOLITION ROOF PLANS - BLDG 300 - 400

DATE 12.29.2025

JOB # 2025014

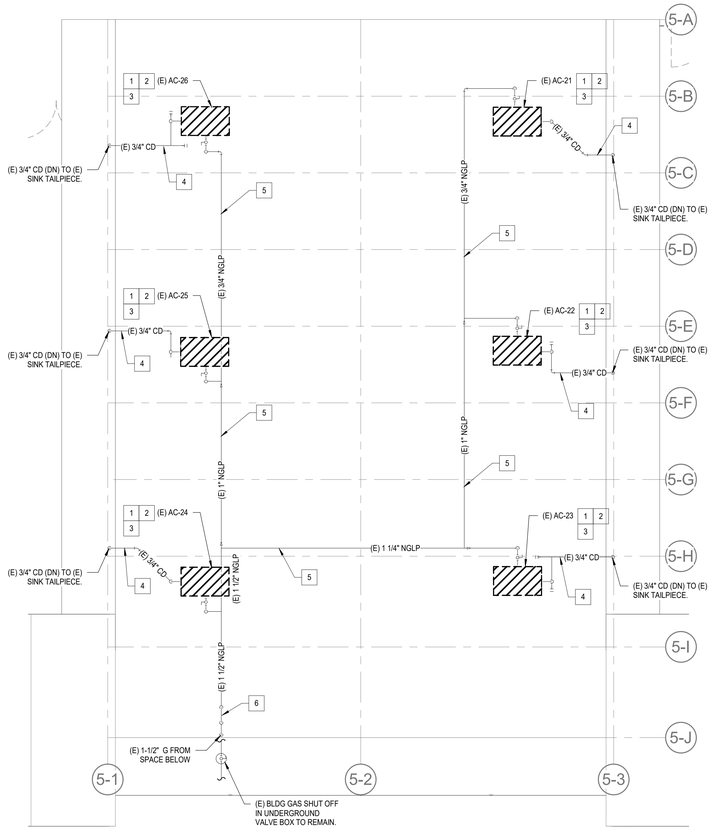
SHEET # P5.02

12/23/2025 1:23:02 PM



4 P5.03 PLUMBING - BLDG 600 - DEMO ROOF PLAN

SCALE: 1/8" = 1'-0"



3 P5.03 PLUMBING - BLDG 500 - DEMO ROOF PLAN

SCALE: 1/8" = 1'-0"

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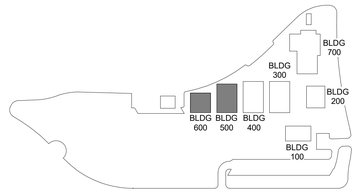
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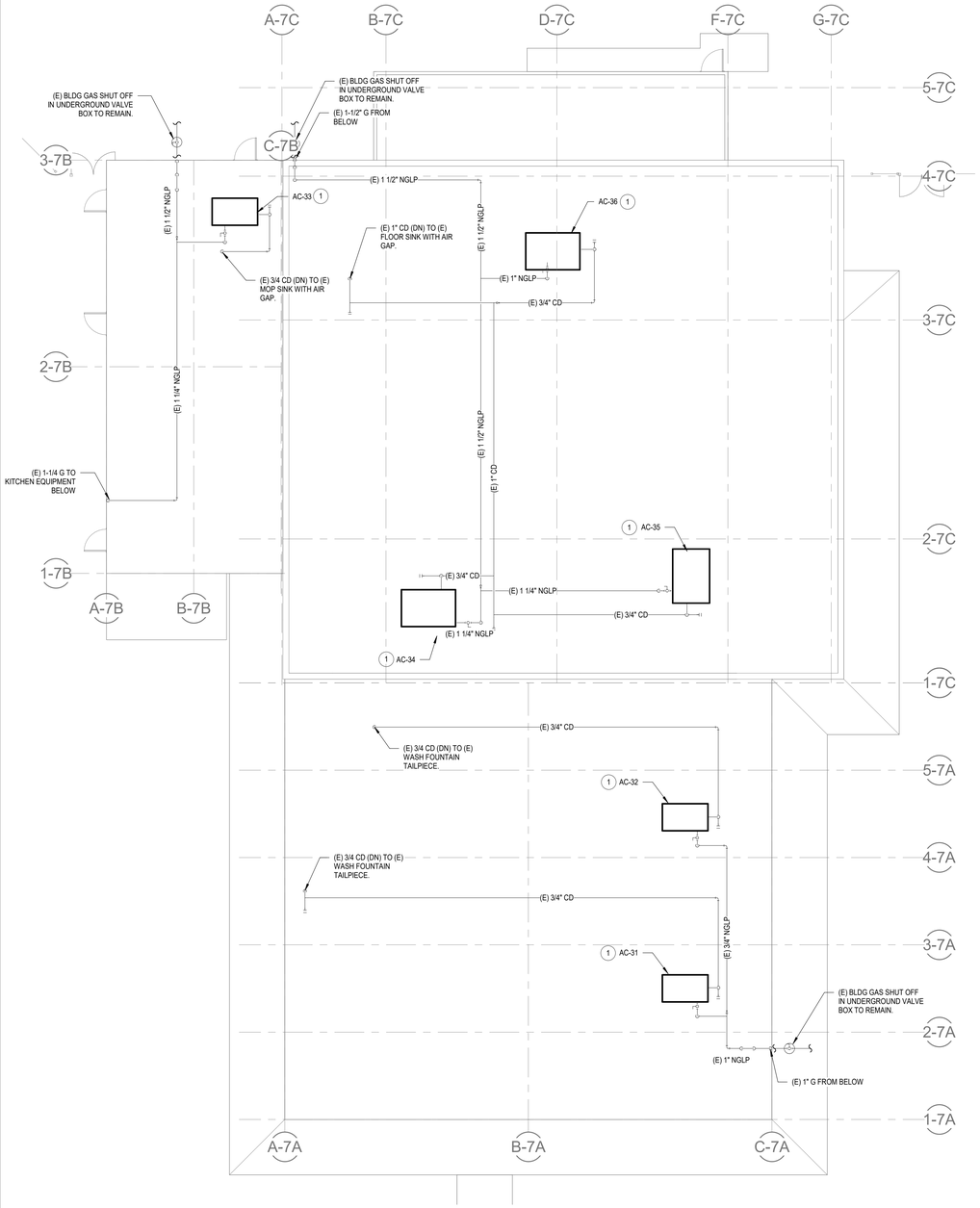
PLUMBING DEMOLITION ROOF PLANS - BLDG 500 - 600

DATE 12.29.2025

JOB # 2025014

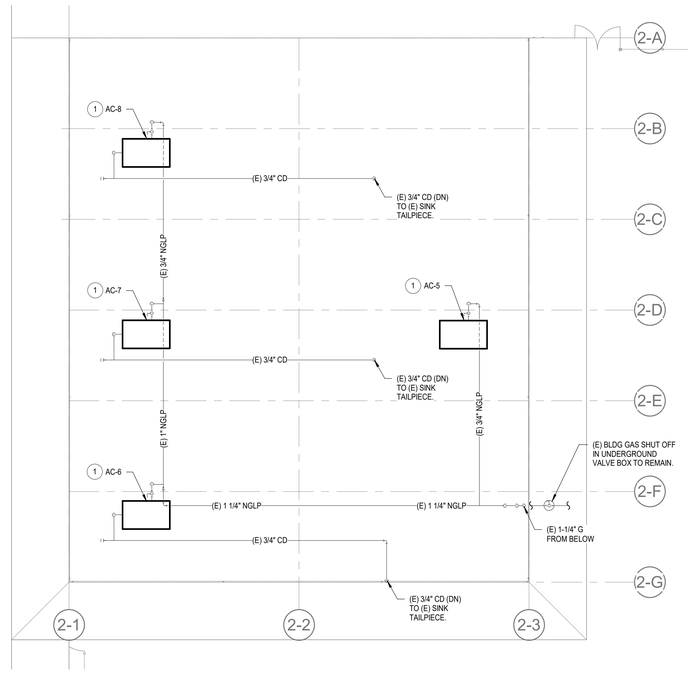
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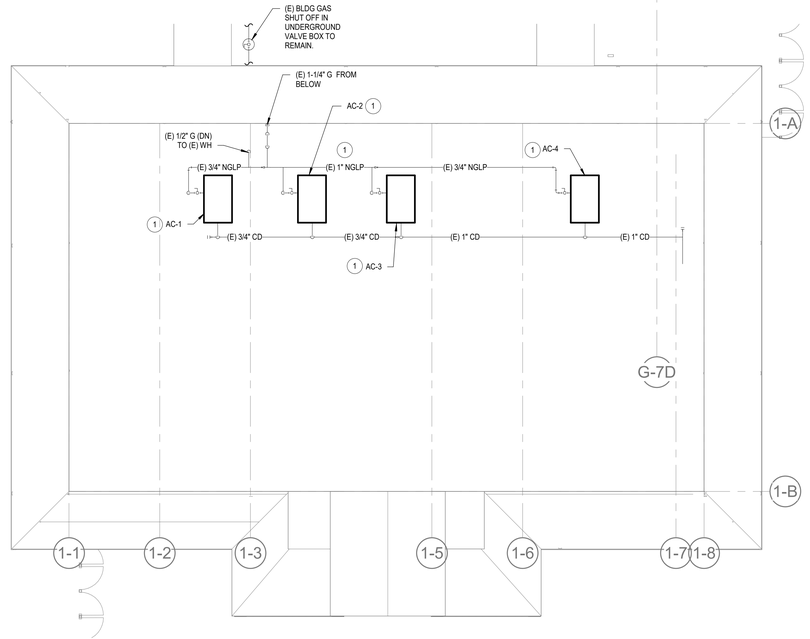
3 P5.04 PLUMBING - BUILDING 700 - ROOF PLAN

SCALE: 1/8" = 1'-0"



2 P5.04 PLUMBING - BLDG 200 - ROOF PLAN

SCALE: 1/8" = 1'-0"



1 P5.04 PLUMBING - BLDG 100 - ROOF PLAN

SCALE: 1/8" = 1'-0"

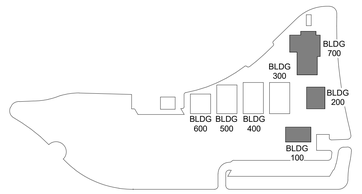
GENERAL SHEET NOTES

1. ANY MATERIAL REQUIRED FOR WORK NOT READILY AVAILABLE FOR PURCHASE SHALL HAVE LEAD TIME INDICATED ON THE BID AND ON THE SUBMITTALS. SUCCESSFUL PROCUREMENT OF ALL MATERIALS REQUIRED FOR THE COMPLETION OF WORK SHALL BE ASCERTAINED BY CONTRACTOR PRIOR TO SCHEDULING OF WORK.
2. ALL FINISH FLOOR ELEVATIONS (FF) BASED FROM CIVIL GRADING DRAWINGS. PLEASE REFER TO CIVIL DRAWINGS FOR MORE INFORMATION. BFF VALUES ARE ALL BASED FROM FINISH FLOOR ELEVATION INSIDE BUILDING. COORDINATE EXACT ELEVATIONS THRU SHOP DRAWINGS AND AT SITE.
3. EXISTING PLUMBING LAYOUT ARE BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. ACTUAL CONDITIONS MAY BE DIFFERENT ESPECIALLY FOR THOSE WITHIN CONCEALED SPACES AND/OR UNDERGROUND. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION, THRU VISUAL OBSERVATIONS, POT-HOLING, RADAR INSPECTION OR OTHER MEANS NECESSARY TO COMPLETE WORK, WELL AHEAD OF NEW PIPE INSTALLATION. SCHEDULE WORK ACCORDINGLY TO PROVIDE ENOUGH TIME TO FIND SOLUTIONS SHOULD VERIFIED INFORMATION BE DIFFERENT FROM HEREWITH. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES, AND ON AS-BUILT DRAWINGS.
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KEYNOTES

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KEYPLAN



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Oak Grove School District

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - EDG/LY — PM - DESIGN TEAM
250163.00 — PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER
RYAN CELAYA
M 34234
EXPIRES 12/31/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED:

STATE

DSA FILE NUMBER 43-41
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MILESTONES

SD	05.23.2025
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DSA SUB	12.29.2025

SHEET

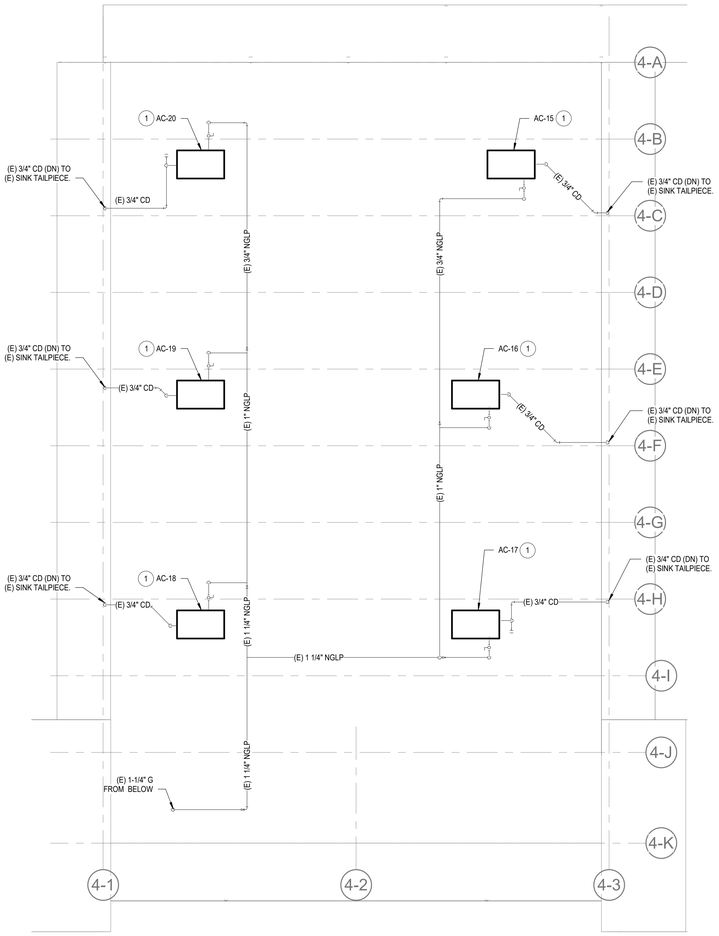
PLUMBING ROOF PLANS - BLDG 100, 200 & 700

DATE 12.29.2025

JOB # 2025014

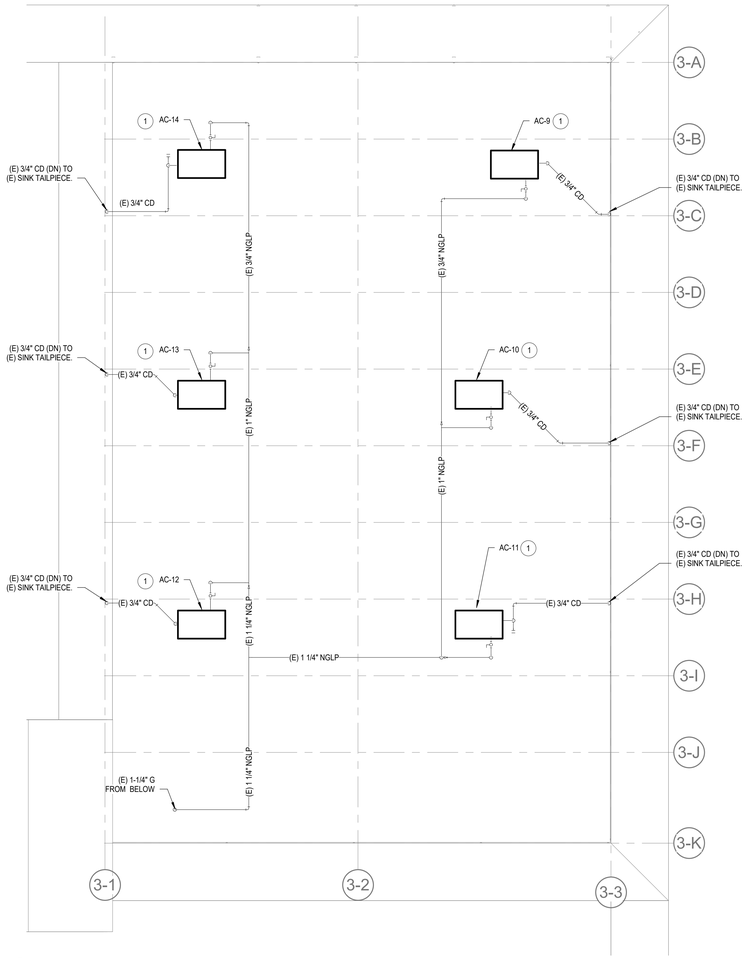
SHEET # P5.04

12/23/2025 1:23:04 PM



2 P5.05 PLUMBING - BLDG 400 - ROOF PLAN

SCALE: 1/8" = 1'-0"



1 P5.05 PLUMBING - BUILDING 300 - ROOF PLAN

SCALE: 1/8" = 1'-0"

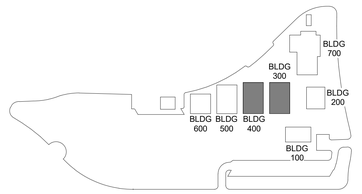
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CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
RC - EDG/LY PM - DESIGN TEAM
250163.00 PROJECT NO.

STAMP

REGISTERED PROFESSIONAL ENGINEER RYAN CELAYA M 34234 EXPIRES 12/31/26 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED:

STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

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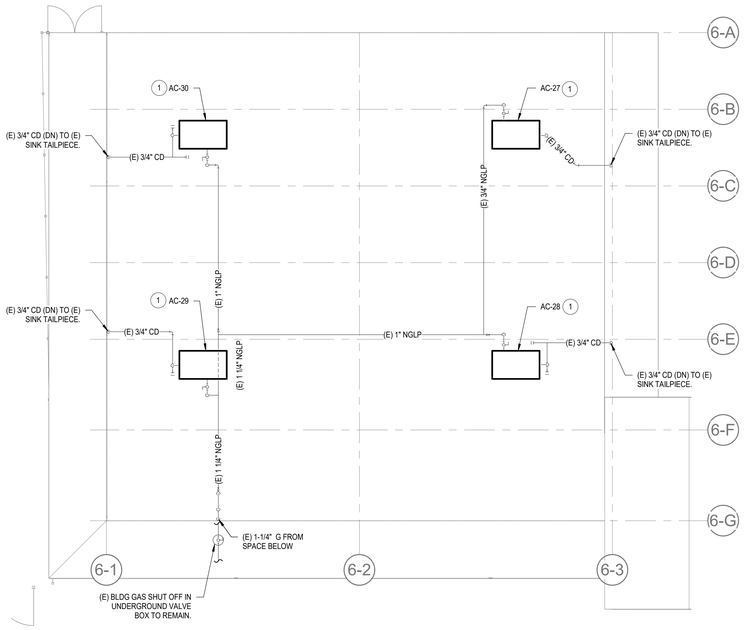
PLUMBING ROOF PLANS - BLDG 300 - 400

DATE 12.29.2025

JOB # 2025014

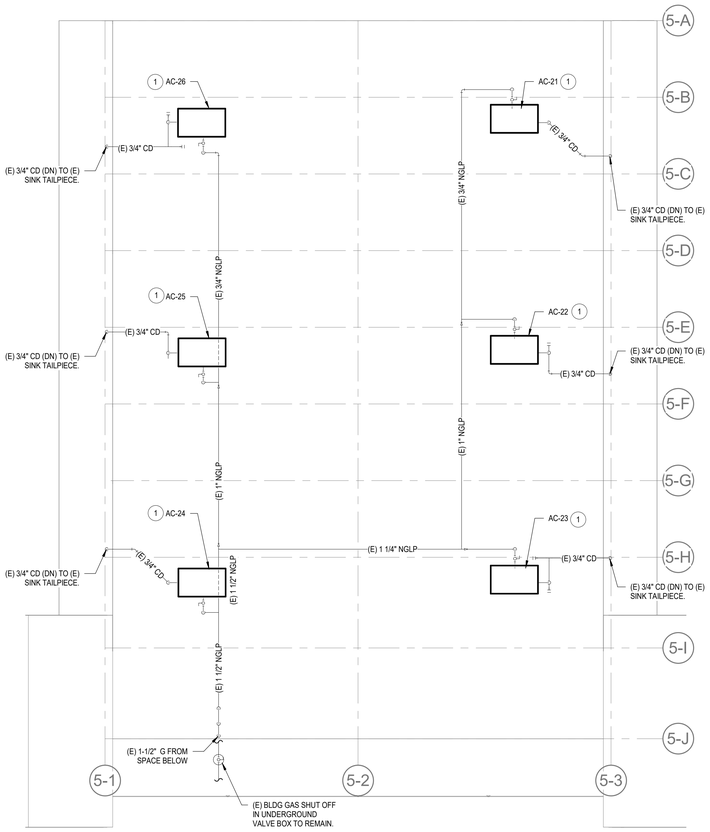
SHEET # P5.05

12/23/2025 1:23:06 PM



2 P5.06 PLUMBING - BUILDING 600 - ROOF PLAN

SCALE: 1/8" = 1'-0"



1 P5.06 PLUMBING - BUILDING 500 - ROOF PLAN

SCALE: 1/8" = 1'-0"

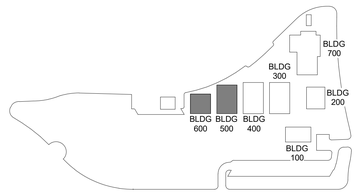
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REGISTERED PROFESSIONAL ENGINEER — RYAN CELAYA — M 34234 — EXPIRES 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: _____

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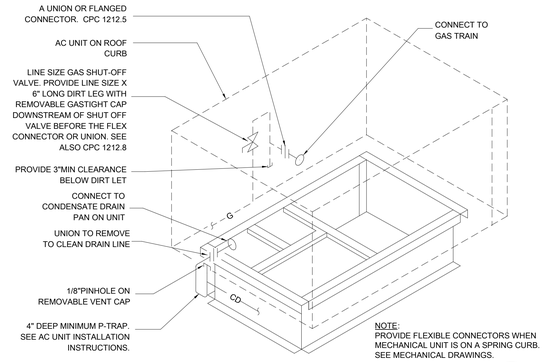
PLUMBING ROOF PLANS - BLDG 500 - 600

DATE 12.29.2025

JOB # 2025014

SHEET # P5.06

12/23/2025 1:23:06 PM



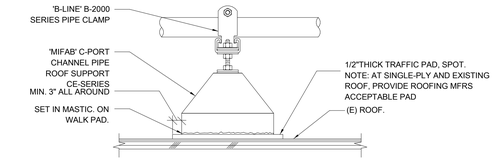
AC UNIT PIPING

SCALE : NONE

1
P6.01

CPC 2022 TABLE 1210.2.4.1
SPACING OF SUPPORTS IN GAS PIPING

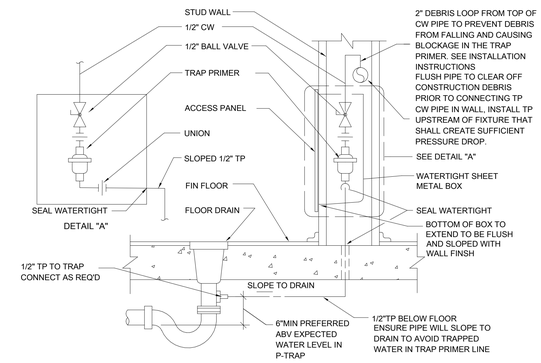
STEEL PIPE, NOMINAL SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)	NOMINAL SIZE OF TUBING SMOOTH-WALL (IN. O.D.)	SPACING OF SUPPORTS (FT.)
1/2	6	1/2	4
3/4 OR 1	8	5/8 OR 3/4	6
1 1/4 OR LARGER (HORZ.)	10	7/8 OR 1 (HORZ.)	8
1 1/4 OR LARGER (VERT.)	EVERY FLOOR LEVEL	1 OR LAGER (VERT.)	EVERY FLOOR LEVEL



NON-SEISMIC PIPE SUPPORT ON ROOF

SCALE : NONE

2
P6.01



TRAP PRIMER TO FLOOR DRAIN

SCALE : NONE

3
P6.01

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SHEET

PLUMBING DETAILS

DATE 12.29.2025

JOB # 2025014

SHEET # P6.01

12/23/2025 1:23:06 PM

SYMBOL LIST:

PLAN, DETAIL OR SECTION DESIGNATION.

ROOM NUMBER.

SHEET REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME SHEET.

FEEDER SCHEDULE SYMBOL.

MECHANICAL EQUIPMENT TAG.

INDICATES FIXTURE TYPE

LUMINAIRE SYMBOLS

LUMINAIRE - SEE SCHEDULE.

LUMINAIRE - SEE SCHEDULE.

LUMINAIRE - SEE SCHEDULE.

LUMINAIRE - SEE SCHEDULE.

POLE MOUNTED LUMINAIRE - SEE SCHEDULE.

POLE MOUNTED LUMINAIRE - SEE SCHEDULE.

LUMINAIRE - SEE SCHEDULE.

LUMINAIRE - SEE SCHEDULE.

LUMINAIRE WALL MOUNTED-SEE SCHEDULE.

EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST

EM — EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST

EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST

EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST

EMERGENCY LUMINAIRE WALL MOUNTED- PROVIDE EM. BATTERY BALLAST

EXIT LIGHT SINGLE FACE - SEE SCHEDULE.

EXIT LIGHT SINGLE FACE (WITH ARROW)- SEE SCHEDULE.

EXIT LIGHT (DOUBLE FACED WITH ARROW)- SEE SCHEDULE.

EMERGENCY BATTERY PACK EXIT LIGHT INSTALL AS DIRECTED.

TYPICAL LUMINAIRE NOMENCLATURE

3a — INDICATES SWITCHING DESIGNATION
INDICATES CIRCUIT NUMBER

SWITCH SYMBOLS

SINGLE POLE SWITCH, + 48" AFF TO THE TOP OF THE OUTLET BOX UON.

SINGLE POLE SWITCH, + 48" AFF TO THE TOP OF THE OUTLET BOX,
a = CIRCUIT CONTROLLED.

THREE WAY SWITCH + 48" AFF TO THE TOP OF THE OUTLET BOX UON.

FOUR WAY SWITCH + 48" AFF TO THE TOP OF THE OUTLET BOX UON.

MOTOR RATED SWITCH

WALL MOUNTED LOW VOLTAGE "DATALINE SWITCH =48" FROM TOP OF BOX, UON,
a = CIRCUIT CONTROLLED

LIGHTING OCCUPANCY SENSOR

MOTION DETECTOR POWER PACK

ONE CIRCUIT WALL SWITCH WITH BUILT IN OCCUPANCY SENSOR. CONNECT SWITCHING TO LIGHTING FIXTURES AS REQUIRED. MOUNT AT +48"AFF TO THE TOP OF THE SWITCH BOX, UON.

RECEPTACLE SYMBOLS

CONVENIENCE RECEPTACLE - DUPLEX AT + 18" AFF
AND NOT LESS THAN 15" FROM BOTTOM OF BOX U.O.N.

GFCI CONVENIENCE RECEPTACLE - DUPLEX AT +18" AFF
AND NOT LESS THAN 15" FROM BOTTOM OF BOX U.O.N.

RECEPTACLE - DOUBLE DUPLEX AT + 18" AFF
AND NOT LESS THAN 15" FROM BOTTOM OF BOX U.O.N.

SINGLE RECEPTACLE - NEMA 5-20R UON, AT + 18" AFF
AND NOT LESS THAN 15" FROM BOTTOM OF BOX U.O.N.

SINGLE RECEPTACLE - NEMA L21 - 208 VOLT, THREE PHASE,
5 WIRE, AT + 18" AFF UON AND NOT LESS THAN 15" FROM
BOTTOM OF BOX U.O.N.

C — DOUBLE DUPLEX RECEPTACLE WITH (1) CONTROLLED DUPLEX
AND (1) UNCONTROLLED DUPLEX, AT +18" AFF
AND NOT LESS THAN 15" FROM BOTTOM OF BOX U.O.N.

3-CHANNEL SURFACE RACEWAY, INSTALL AT +36" AFF UON. RACEWAY
SHALL BE WIREMOLD #5500.

FLOOR BOX WITH (2) DUPLEX RECEPTACLES AND DATA OUTLETS.
QUANTITY OF DATA OUTLETS AS INDICATED ON THE FLOOR PLANS.

POWER DISTRIBUTION SYMBOLS

PANELBOARD - SURFACE OR FLUSH MOUNTED.

LCP — LIGHTING CONTROL CABINET.

EM — EMERGENCY POWER INVERTER.

JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CEC, TAPE AND TAG WIRES.

MAIN SWITCHBOARD OR DISTRIBUTION PANEL.

MOTOR

30 — RATING AS INDICATED.

60 — UNFUSED DISCONNECT SWITCH - RATING AS INDICATED.

100 — FUSED DISCONNECT SWITCH - SIZE FUSES PER MOTOR MANUFACTURER'S RECOMMENDATIONS. RATING AS INDICATED.

MAGNETIC STARTER - NEMA SIZE INDICATED.

TRANSFORMER - SEE SINGLE LINE FOR REQUIREMENTS.

GROUND ROD.

P — IN-GRADE ELECTRICAL PULL BOX WITH TRAFFIC RATED LID.

L — IN-GRADE LIGHTING PULL BOX WITH TRAFFIC RATED LID.

C — IN-GRADE COMMUNICATION PULL BOX WITH TRAFFIC RATED LID.

EV1 — SINGLE EV CHARGER FOR BUS

EV2 — DOUBLE EV CHARGER FOR CAR

POWER DISTRIBUTION SINGLE LINE SYMBOLS

DRAW-OUT CIRCUIT BREAKER.

CIRCUIT BREAKER.

FUSED SWITCH.

M — "PG&E" METER W/ CURRENT TRANSFORMER.

TRANSFORMER.

NORMALLY OPENED, AUXILIARY CONTACT.

NORMALLY CLOSED, AUXILIARY CONTACT.

AUTOMATIC TRANSFER SWITCH.

EMERGENCY GENERATOR.

WIRING & CONDUIT RUN SYMBOLS

CONDUIT - CONCEALED IN WALLS OR CEILING.

CONDUIT - EXPOSED.

CONDUIT - UNDERGROUND OR BELOW FLOOR

EXISTING CONDUIT, CABLES OR DEVICE

#10 / #12 — CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSSHATCHES WITH "#10" INDICATES WIRE SIZE OTHER THAN #12'S.

FLEX CONDUIT WITH CONNECTION.

CONDUIT - STUB UP.

CONDUIT - STUB DOWN.

E — E — CONDUIT EMERGENCY SYSTEM.

CAPPED CONDUIT.

CONDUIT CONTINUATION.

WATTSTOPPER DIGITAL LIGHTING MANAGEMENT CONTROLS

LCP — WATTSTOPPER LMCP24

LMRC 101 — WATTSTOPPER LMRC-101

LMRC 211 — WATTSTOPPER LMRC-211

LMRC 212 — WATTSTOPPER LMRC-212

LMRC 213 — WATTSTOPPER LMRC-213

WC — WATTSTOPPER LMDC-100, CEILING MOUNT

101 — WATTSTOPPER LMDW-101, + 48" AFF TO TOP OF THE BOX, UON.

OA — WATTSTOPPER LMLS-500, CEILING/WALL MOUNT

$101 — WATTSTOPPER LMSW-101, + 48" AFF TO TOP OF THE BOX, UON.

$102 — WATTSTOPPER LMSW-102, + 48" AFF TO TOP OF THE BOX, UON.

COMMUNICATIONS SYMBOLS

19" FLOOR MOUNTED DATA RACK.

DATA/TEL STATION AT +18" AFF UON WITH (1) DATA OUTLET. CONNECT DATA/TEL OUTLETS OUTLETS PER THE DATA/TEL RISER DIAGRAM. STUB CONDUIT INTO AVAILABLE CEILING SPACE.

(2) — DATA/TEL STATION AT +18" AFF UON WITH (2) DATA OUTLETS. CONNECT DATA/TEL OUTLETS OUTLETS PER THE DATA/TEL RISER DIAGRAM. STUB CONDUIT INTO AVAILABLE CEILING SPACE.

WAP — (2) DATA OUTLETS FOR WIRELESS ACCESS POINT EQUIPMENT TO BE MOUNTED IN CEILING CHASE.

INTERIOR SPEAKER WALL MOUNTED AT + 8'-0" AFF UON. CONNECT SPEAKER PER THE PA/CLOCK RISER DIAGRAM

CEILING MOUNTED SPEAKER. CONNECT SPEAKER PER THE PA/CLOCK RISER DIAGRAM

FLUSH MOUNTED EXTERIOR SPEAKER AT +8'-0" AFF UON. CONNECT EXTERIOR SPEAKER PER THE PA/CLOCK RISER DIAGRAM.

COMBINATION FLUSH MOUNTED CLOCK/SPEAKER DEVICE AT +8'-0" AFF UON. CONNECT CLOCK/SPEAKER PER THE PA/CLOCK RISER DIAGRAM. PROVIDE 3/4"C TO ACCESSIBLE CEILING.

HDMI DEVICE. CONNECT PER A 4 11/16" EXTRA DEEP BOX WITH A 2 GANG RING THROUGH 1"C TO CEILING.

FIRE ALARM SYMBOLS

FACP — FIRE ALARM CONTROL PANEL.

RPS — REMOTE POWER SUPPLY.

AMP — EVAC SPEAKER AMPLIFIER.

FATC — FIRE ALARM TERMINAL CABINET.

ANN — REMOTE FIRE ALARM ANNUNCIATOR.

SMOKE DETECTOR

PULL STATION

HORN STROBE

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE LICENSED BY THE STATE OF CALIFORNIA C-10 AND SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
3. PRIOR TO SUBMITTING A BID THE CONTRACTOR SHALL VISIT THE SITE, REVIEW THE EXISTING CONDITIONS AND ALLOW FOR LABOR, MATERIAL AND COORDINATION THAT IS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF EACH SYSTEM. THE CONTRACTOR SHALL OBTAIN AND BE FAMILIAR WITH ALL OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
5. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS. "AS-BUILT" DRAWINGS SHALL SHOW ACTUAL CHANGES TO ORIGINAL ELECTRICAL DRAWING. SHOW LOCATIONS OF PULL BOXES, CONDUIT RUNS AND WIRING CHANGES. THE CONTRACTOR SHALL PROVIDE ONE (1) HARDCOPY SET OF DOCUMENT DRAWINGS AND ONE (1) SET OF DOCUMENT DRAWINGS IN ELECTRONIC CAD FILE THAT REPRESENTS THE ACTUAL "AS-BUILTS". CAD FILES SHALL BE AUTOCAD 2010 FORMAT.
6. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
7. THE CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
8. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
10. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS. ALL EXTERIOR CONDUITS SHALL BE "RSG" UNLESS OTHERWISE NOTED ON DRAWINGS.
11. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12'S WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR "ROUGH" ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
12. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
13. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF LIGHTING FIXTURES AND DEVICES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF CEILING TYPES FROM ARCHITECTURAL DOCUMENTS AND PROVIDE AND INSTALL ALL REQUIRED FIXTURE MOUNTING HARDWARE. PROVIDE AND INSTALL U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.
14. THE CONTRACTOR SHALL PROVIDE IN EVERY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
15. POWER FEEDERS MAY NOT BE SHOWN ON THE DRAWINGS, REFER TO THE SINGLE LINE DIAGRAM FOR CONDUIT AND FEEDER INFORMATION. ALL DRAWINGS ARE DIAGRAMMATIC INDICATING LOCATION OR POSITION OF EQUIPMENT. FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION OF ANY WORK.
16. MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR SIZING, CIRCUIT BREAKER OR FUSE PROTECTION OF ELECTRICALLY OPERATED EQUIPMENT MAY DIFFER FROM THOSE INDICATED ON DRAWINGS. CONTRACTOR SHALL CONFIRM RATINGS PRIOR TO ORDERING EQUIPMENT. PROVIDE ELECTRICAL PROTECTION TO EQUIPMENT IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND PER NATIONAL ELECTRICAL CODE REQUIREMENTS.
17. CONTRACTOR SHALL REVIEW EQUIPMENT REQUIREMENTS OF OTHER TRADES AND PROVIDE POWER CIRCUITS AND CONNECTIONS TO ELECTRICALLY OPERATED EQUIPMENT.
18. EFFECTIVELY BOND ELECTRICAL CABINETS, ENCLOSURES AND CONDUIT RACEWAYS TO CODE APPROVED GROUND AS PART OF THE CONTINUOUS GROUNDING SYSTEM.
19. MEASEURE THE 3-PHASE AND PHASE TO NEUTRAL SERVICE VOLTAGE FOR 208/120V PANELS PRIOR TO ENERGIZING ANY PANELS OR EQUIPMENT. AVOID ENERGIZING 208/120V PANELS PHASE TO NEUTRAL VOLTAGE ABOVE 130 VOLTS. TRANSFORMER TAP SETTING MAY REQUIRE CHANGING.
20. MEASURE THE 1-PHASE AND PHASE TO NEUTRAL SERVICE VOLTAGE FOR 240/120V PANELS PRIOR TO ENERGIZING ANY PANELS OR EQUIPMENT. AVOID ENERGIZING 240/120V PANELS PHASE TO NEUTRAL VOLTAGE ABOVE 130 VOLTS.
21. DO NOT SUBSTITUTE SPECIFIED MATERIAL OR EQUIPMENT WITHOUT FIRST OBTAINING APPROVAL FROM THE OWNER OR HIS REPRESENTATIVE.
22. IDENTIFY ALL ABOVE CEILING JUNCTION BOXES COVERS WITH PANEL AND CIRCUITS IN LEGIBLE PRINT USING BLACK INDELIBLE INK. ABOVE CEILING JUNCTION BOXES SHALL ALSO BE LABELED AT THE REAR INTERIOR BOX WITH AN INDELIBLE BLACK MARKER.
23. LABEL ALL WALL AND/OR WIREMOLD MOUNTED OUTLET DEVICES WITH PANEL CIRCUIT IDENTIFICATION WITH BOLD TYPE-PRINTED LABELING. BLACK LETTERING ON WHITE BACKGROUND PREFERRED.
24. DERATE CONDUCTORS IN RACEWAYS IN ACCORDANCE WITH NEC CODE REQUIREMENTS. PANEL FEEDERS TO WIREMOLDS CAN ENTER AT VARIOUS LOCATIONS TO LIMIT CONDUCTOR CIRCUITS PER WIREMOLD CAPACITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN AREA OF NEW TRENCHING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. EXTREME CARE SHALL BE MAINTAINED DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN AREA. MODIFICATIONS TO EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMMODATE NEW SYSTEM CONFIGURATION AND SHALL BE MADE BY THE CONTRACTOR WITHOUT EXTRA EXPENSE TO THE OWNER THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL NEW WORK.

DRAWING INDEX

SHEET NO.	SHEET TITLE
E0.1	ELECTRICAL COVER SHEET
E0.2	FIXTURE SCHEDULE
E0.3	TITLE 24 LIGHTING
E1.1	OVERALL ELECTRICAL SITE PLAN
E1.2	SITE LIGHTING EGRESS PLAN
E2.0	BLDG. 300 & BLDG. 400 RESTROOM ELECTRICAL PLANS - DEMO
E2.1	BLDG. 300 & BLDG. 400 RESTROOM ELECTRICAL PLANS - NEW
E3.1	ELECTRICAL ROOF PLAN - BLDG. 100, 200 & 700
E3.2	ELECTRICAL ROOF PLAN - BLDG. 400 & 300
E3.3	ELECTRICAL ROOF PLAN - BLDG. 500 & 600
E4.1	ELECTRICAL DETAILS
E4.2	ELECTRICAL DETAILS
E5.1	PANEL SCHEDULES

ABBREVIATIONS

A	AMPERE
ABV	ABOVE
AF	AMP FRAME OR AMP FUSE
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CD	CANDELAS
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CO	CONDUIT ONLY
CTR	CENTER
(D)	DEMOLISH
DET	DETAIL
DIM	DIMENSION
DISTR	DISTRIBUTION
DWG	DRAWING
(E)	EXISTING
EM	EMERGENCY
EQPT	EQUIPMENT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
(F)	FUTURE
FIN	FINISH
FL	FLOOR
G , GND	GROUND
HGT	HEIGHT
HP	HORSEPOWER
IC	INTERCOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
JB	JUNCTION BOX
KAIC	KILOAMPERE INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LTG	LIGHTING
MCM	THOUSAND CIRCULAR MILS
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MH	MANHOLE
MTD	MOUNTED
MTG	MOUNTING
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NIEC	NOT IN ELECTRICAL CONTRACT
NO	NUMBER/ NORMALLY OPEN
NTS	NOT TO SCALE
O.C.	ON CENTER
P	POLE CIRCUIT BREAKER
PA	PUBLIC ADDRESS
PB	PULL BOX
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
(R)	EXISTING TO BE RELOCATED
REQD	REQUIRED
REQT	REQUIREMENT(S)
RM	ROOM
RSC	RIGID STEEL CONDUIT
SHT	SHEET
SW	SWITCH
SWBD	SWITCHBOARD
TC	TERMINAL CABINET
TEL	TELEPHONE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WP	WEATHER PROOF
XFMR	TRANSFORMER

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PROJECT

LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

American Consulting Engineers Electrical, Inc.
1990 The Alameda, Suite 200 — 408/236-2312
San Jose, CA 95126 — Fax: 408/236-2316
JOB # E251510.00

STAMP

REGISTERED PROFESSIONAL ENGINEER — JAMES S. FERNANDEZ — E16890 — Exp. 06/30/27 — ELECTRICAL — STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

ELECTRICAL COVER SHEET

DATE 12.29.2025

JOB # 2025014

SHEET #

E0.1

FIXTURE SCHEDULE

TYPE	LAMPS	BALLAST/ DRIVER	MOUNTING	DESCRIPTION	WEIGHT
				ALL FIXTURE TYPES FOLLOWED BY AN "E" AND HALF SHADED ON THE FLOOR PLANS ARE EMERGENCY FIXTURES. FIXTURES SHALL BE CONNECTED TO THE LIGHTING INVERTER WITH A MINIMUM OF 90 MINUTES. EMERGENCY FIXTURES SHALL WIRED FOR SWITCHING CAPABILITIES AND SHALL BE SWITCHED PER THE FLOOR PLAN. EXIT SIGNS SHALL BE CONNECTED TO THE EMERGENCY LIGHTING CIRCUIT.	
A AE	L.E.D. 22W	0-10V DIMMING DRIVER	SURFACE MOUNTED 9 E4.1	FIXTURE HOUSING SHALL BE MARINE GRADE ALUMINUM. EXTRUDED HOUSING WITH DIE-CAST END CAPS. UV STABILIZED POLYCARBONATE LENS, .150" THICK. REFLECTIVE SURFACES WITH 92% MINIMUM AVERAGE REFLECTIVE WHITE POWDER COAT ON INTERIOR COMPONENTS. FINISH SHALL BE TEXTURED MATTE WHITE POLYESTER TGIC POWDER COAT BONDED TO PHOSPHATE-FREE, MULTI-STAGE PRETREATED METAL. ALL PARTS PAINTED AFTER FABRICATION TO FACILITATE INSTALLATION, INCREASE EFFICIENCY, AND INHIBIT CORROSION. HIGH QUALITY MID-POWER LED BOARD. RATED FOR 50,000 HOURS AT 70% LUMEN MAINTENANCE (L70). 25°C MAXIMUM AMBIENT OPERATING TEMPERATURE. WILLIAMS - AVX-4-L20/835-DIM-UNV OR APPROVED EQUAL 277 VOLT	15 LBS.

FIXTURE SCHEDULE

TYPE	LAMPS	BALLAST/ DRIVER	MOUNTING	DESCRIPTION	WEIGHT
				ALL FIXTURE TYPES FOLLOWED BY AN "E" AND HALF SHADED ON THE FLOOR PLANS ARE EMERGENCY FIXTURES. FIXTURES SHALL BE CONNECTED TO THE LIGHTING INVERTER WITH A MINIMUM OF 90 MINUTES. EMERGENCY FIXTURES SHALL WIRED FOR SWITCHING CAPABILITIES AND SHALL BE SWITCHED PER THE FLOOR PLAN. EXIT SIGNS SHALL BE CONNECTED TO THE EMERGENCY LIGHTING CIRCUIT.	
AA1	L.E.D. 68W	0-10V DIMMING DRIVER	MOUNTED ON A 15' POLE WITH 3' CONCRETE BASE 7 E4.1	POLE MOUNTED SINGLE HEAD LUMINAIRE. FIXTURE HOUSING SHALL BE ONE PIECE DIE CAST ALUMINUM. FIXTURE EPA SHALL BE A MAXIMUM OF .60 FT^2. LENSED LED ARRAYS ARE SET TO ACHIEVE TYPE III DISTRIBUTION AND OPTICAL SYSTEMS ARE FIELD ROTATABLE UTILIZING HIGH PERFORMANCE CLASS I LED SYSTEMS WITH A TEMPERED GLASS LENS. LUMINAIRES SHALL BE EQUIPPED WITH AN LED DRIVER THAT ACCEPTS 120V THROUGH 277V 60HZ INPUT. DRIVER OUTPUT SHALL BE BASED ON LED WATTAGE SELECTED. FINISH SHALL BE FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED TGIC POLYESTER POWDERCOAT FINISH IN BRONZE COLOR. FIXTURE SHALL BE UL LISTED FOR WET LOCATION. GARDCO - PUREFORM #P26-A01-840-T2M-AR1-UNV-BL50L3-BZ 277 VOLT OR APPROVED EQUAL POLE SHALL BE STRAIGHT SQUARE STEEL POLE 4" X 15' X 7 GAUGE BY KW (SSP15-4.0-7) POLE SHALL BE DRILLED FOR THE NUMBER OF HEADS INDICATED. POLE SHALL HAVE BRONZE FINISH. POLES SHALL BE 15' HIGH, 4" STRAIGHT SQUARE STEEL MOUNTED ON 3' HIGH CONCRETE BASE. THE POLE SHAFT SHALL BE A SINGLE PIECE 11 GAUGE CARBON STEEL. THE FORMED STEEL PLATE SHALL BE LONGITUDINALLY WELDED PROVIDING MINIMUM YIELD STRENGTH OF 46KSI. THE ANCHOR BASE SHALL BE A-36 STRUCTURAL CARBON STEEL WITH A MINIMUM YEILD STRENGTH OF 39KSI. THE BASE PLATE SHALL TELESCOPE INTO THE POLE SHAFT AND BE CIRCUMFERENTIALLY WELDED ON THE TOP AND BOTTOM. ANCHOR BOLTS SHALL BE PROVIDED WITH THE POLE. ANCHOR BOLTS SHALL MEET OR EXCEED YIELD STRENGTH OF 50,000PSI. EACH ANCHOR BOLT SHALL BE PROVIDED WITH ALL HARDWARE NECESSARY FOR POLE INSTALLATION. BASE COVER SHALL BE TWO PIECE AND CONCEAL THE ENTIRE BASE PLATE AND ANCHORAGE. POLE SHALL BE PROVIDED WITH A HANDHOLE 12" ABOVE THE BASE. HANDHOLE SHALL BE PROVIDED WITH A COVER PLATE AND ATTACHMENT SCREWS. POLE SHALL ALSO BE PROVIDED WITH A POLE TOP CAP. FINISH SHALL BE TGIC POLYESTER POWDER COAT ELECTROSTATICALLY APPLIED AND THERMALLY CURED. POLES SHALL BE FACTORY DRILLED FOR PROPER FIXTURE INSTALLATION. ALL POLES SHALL BE PROPERLY LEVELED AND VERTICAL. LIGHTING FIXTURE HEADS SHALL BE MOUNTED TO THE POLE PER THE MANUFACTURERS RECOMMENDATIONS.	40 LBS
BB BBE	L.E.D. 38W	0-10V DIMMING DRIVER	SURFACE WALL MOUNTED 8 E4.1	WALL MOUNTED LED LIGHTING. FIXTURE HOUSING SHALL BE A SINGLE PIECE STYLIZED HOUSING WITH DIE CAST ALUMINUM AND A MEMORY RETENTIVE GASKET SEALS THE HOUSING WITH THE DOOR FRAME TO EXCLUDE MOISTURE, DUST, INSECTS AND POLLUTANTS FROM THE LUMINAIRE. OPTICAL SYSTEM TO HAVE LED ARRAYS SET TO ACHIEVE THE FORWARD THROW DISTRIBUTIONS. LUMINAIRES SHALL BE EQUIPPED WITH AN LED DRIVER THAT ACCESPTS 120V THROUGH 277V 60HZ INPUT. FINISH SHALL BE FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED TGIC POLYESTER POWDERCOAT FINISH IN SILVER COLOR. FIXTURE SHALL BE UL LISTED FOR WET LOCATION. GARDCO - 121-16L-700-NW-G4-3-UNV-BZ 277 VOLT GARDCO - 121-16L-700-NW-G4-3-UNV-BZ-EBPC	22 LBS.
CC	L.E.D. 22W	0-10V DIMMING DRIVER	EXTERIOR SURFACE MOUNTED 8 E4.1	KENALL - MILLENIUM SQUARE MS11 SERIES OR APPROVED EQUAL 277 VOLT	15 LBS.

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PROJECT

LEDESMA
ELEMENTARY SCHOOL
MODERNIZATION

OAK GROVE SCHOOL
DISTRICT

CONSULTANT

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STATE

DSA FILE NUMBER 43-41
APPL # 01-122831

REVISIONS

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MILESTONES

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SHEET

FIXTURE SCHEDULE

DATE 12.29.2025
JOB # 2025014
SHEET # E0.2

STATE OF CALIFORNIA
Indoor Lighting
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 for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.			
Project Name:	Ledesma ES Modernization - Bldg 300 & 400 Restrooms	**Report Page:**	**(Page 1 of 7)**
Project Address:	1001 Schoolhouse Rd,	**Date Prepared:**	12/22/2025

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	04	Total Conditioned Floor Area (ft²)	982
02	Climate Zone	4	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
♦ 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 / 170.2(e) or 141.0(b)2 / 180.2(b)4 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	982	Area Category Method	0
Total Area of Work (ft²)	982		0	

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 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)					Compliance Results
	01	02	03	04		05	06	07		08		09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Ax (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments		**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)				
Conditioned		638.3	0		=	638	396	0	=	396		COMPLIES
Unconditioned					=				=			
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 planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
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 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A	A	No	NA	22	Mfr. Spec	18	No	396	☐	☐
							Total Designed Watts: CONDITIONED SPACES	396		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% 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) / 160.5(b). 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.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Skylit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Restrooms	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
					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 .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Restrooms Bldg 300	Restroom	0.65	490	318.5	No	No
Restrooms Bldg 400	Restroom	0.65	492	319.8	No	No
		TOTALS:	982	638.3	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /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 ONE-FOR-ONE 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. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. 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: Sammy S. Fernandez	Documentation Author Signature:
Company: American Consulting Engr. Elec., Inc	Signature Date: 2025-12-22
Address: 1590 The Alameda, Suite 200	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Jose CA 95126	Phone: 408-236-2312

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: Sammy S. Fernandez	Responsible Designer Signature:
Company: American Consulting Engr. Elec., Inc	Date Signed: 2025-12-22
Address: 1590 The Alameda, Suite 200	License: E16890
City/State/Zip: San Jose CA 95126	Phone: 408-236-2312

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PROJECT

LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

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JOB # E25165.00 Fax: 408/236-2316

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STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

REVISIONS

No.	Description	Date
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MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

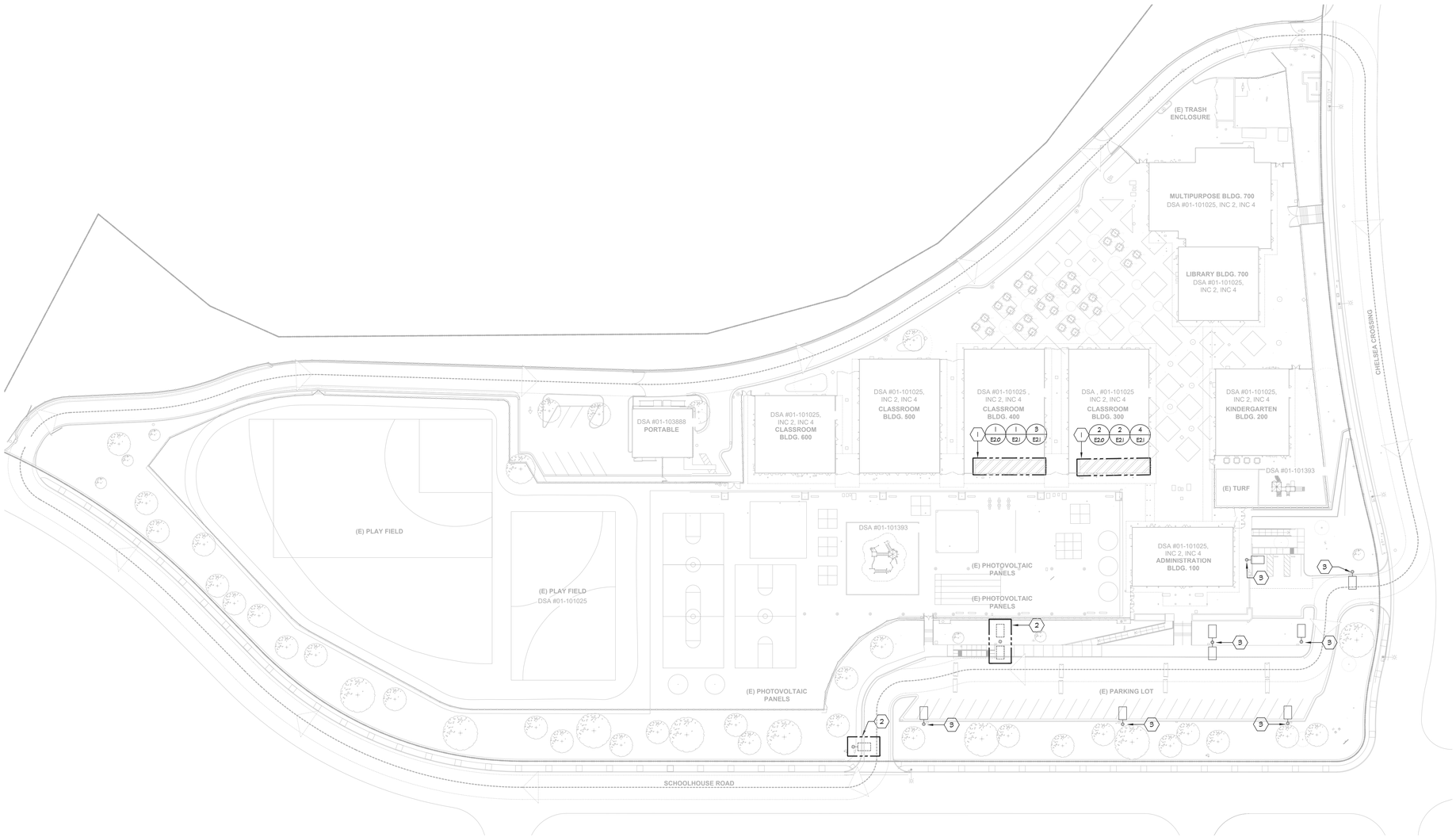
TITLE 24 LIGHTING

DATE 12.29.2025

JOB # 2025014

SHEET #

E0.3



1 / E1.1 OVERALL ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

GENERAL NOTES:

1. CONTRACTOR TO SITE VISIT AND VERIFY THE EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE NEW TRENCH WORK OCCURS PRIOR TO BIDDING.
2. REFER TO THE RESTROOM DEMOLITION AND NEW ELECTRICAL PLANS FOR ADDITIONAL REQUIREMENTS.
3. REFER TO THE SITE LIGHTING EGRESS SITE PLAN FOR ADDITIONAL REQUIREMENTS.

SHEET NOTES:

1. REFER TO THE RESTROOM FLOOR PLANS FOR NEW AND DEMO WORK IN THIS AREA.
2. EXISTING POLE MOUNTED LIGHT FIXTURE AND LIGHTING PULL BOX TO BE DEMOLISHED TO FACILITATE THE NEW SITE LIGHTING. PULL THE EXISTING CIRCUITRY BACK TO LAST ACTIVE DEVICE AND REMOVE. ALL EXISTING DOWNSTREAM POLE MOUNTED LIGHT FIXTURES ARE TO STAY CONNECTED. WHERE POWER IS DISCONNECTED, CONTRACTOR SHALL RECONNECT.
3. EXISTING POLE MOUNTED LIGHT FIXTURE TO REMAIN AND STAY CONNECTED.

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PROJECT

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REGISTERED PROFESSIONAL ENGINEER
MARK S. FERRARO
E16890
Exp. 09/30/26
ELECTRICAL
STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	43-41
APPL #	01-122831

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SHEET

OVERALL ELECTRICAL SITE PLAN

DATE 12.29.2025

JOB # 2025014

SHEET # E1.1



1 / E1.2 **SITE LIGHTING EGRESS PLAN**

SCALE: 1" = 20'-0"

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE UNDERGROUND CONDUITS AND CABLING.
2. CONTRACTOR TO SITE VISIT AND VERIFY THE EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE NEW TRENCH WORK OCCURS PRIOR TO BIDDING.
3. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE EXISTING UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE EXISTING UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE NEW ELECTRICAL TRENCH WORK.
4. ALL POLE MOUNTED LIGHT FIXTURES ARE MOUNTED ON A 3' CONCRETE BASE. SEE TYPICAL RAISED POLE BASE DETAIL 7/E4.1 FOR ADDITIONAL REQUIREMENTS.
5. SEE FIXTURE SCHEDULE FOR ADDITIONAL REQUIREMENTS.
6. SEE TYPICAL TRENCH DETAIL 5/E4.1 FOR ADDITIONAL REQUIREMENTS.

SHEET NOTES:

1. REPLACE EXISTING WALL MOUNTED EXTERIOR LIGHTING WITH NEW FIXTURE. FOR LIGHT FIXTURE OVER EXTERIOR EXIT DOORS, REPLACE WITH EMERGENCY LIGHT FIXTURES.
2. PROVIDE NEW EXTERIOR EGRESS LIGHTING AT THE CANOPY. ROUTE NEW CIRCUITRY TO THE EXISTING BUILDING. CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT AT THE BUILDING.
3. PROVIDE NEW WALL MOUNTED EXTERIOR LIGHTING. CONNECT TO THE BUILDING'S EXISTING EXTERIOR LIGHTING CIRCUIT.
4. PROVIDE NEW POLE MOUNTED LIGHT FIXTURE FOR EGRESS PATHWAY. PROVIDE B1017 IN-GRADE PULL BOX AT EACH POLE.
5. EXISTING POLE MOUNTED LIGHT FIXTURE LOCATED AT THE PARKING SPACES.
6. ROUTE UNDERGROUND CONDUIT TO BUILDING 700. CONNECT TO LIGHTING ELECTRIAL PANEL IN ELECTRICAL ROOM.
7. ROUTE UNDERGROUND CONDUIT TO BUILDING 100. CONNECT TO LIGHTING ELECTRIAL PANEL IN ELECTRICAL ROOM.

CONDUIT SCHEDULE

1 (N) (1) 1½"C - LIGHTING

PULLBOX SCHEDULE:

L1 - NEW B1017 LIGHTING PULLBOX WITH TRAFFIC RATED LID. LABEL LID 'LIGHTING'.

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PROJECT

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REGISTERED PROFESSIONAL ENGINEER JAMES S. FERRANTELLI E16890 Exp. 06/30/27 ELECTRICAL STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	43-41
APPL #	01-122831

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MILESTONES

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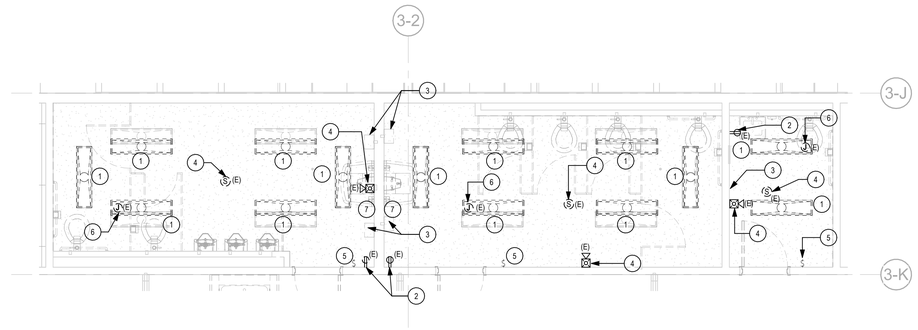
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SITE LIGHTING EGRESS PLAN

DATE 12.29.2025

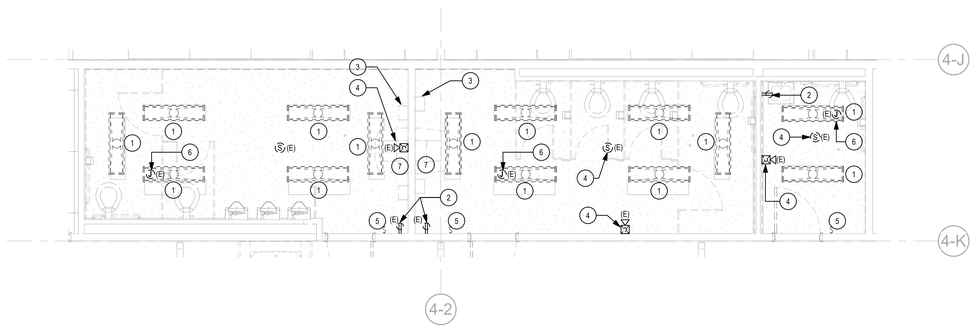
JOB # 2025014

SHEET # E1.2



1 / E2.0 DEMO ENLARGED RESTROOM ELECTRICAL PLAN - BLDG 300

SCALE: 1/4" = 1'-0"



2 / E2.0 DEMO ENLARGED RESTROOM ELECTRICAL PLAN - BLDG 400

SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO THE NEW ELECTRICAL AND NEW LIGHTING FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
2. SEE THE ARCHITECTURAL SHEETS FOR ADDITIONAL REQUIREMENTS.
3. COORDINATE DEMOLITION WORK WITH ALL TRADES.
4. PATCH AND REPAIR ALL DAMAGED AREAS DUE TO ELECTRICAL AND LIGHTING DEMOLITION WORK. PAINT TO MATCH EXISTING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING ALL DOWN STREAM DEVICES INTERRUPTED DUE TO THE DEMOLITION AND RENOVATION WORK.

DEMOLITION SHEET NOTES

#	NOTE
1	DEMOLISH EXISTING LIGHT FIXTURES AND EXISTING OCCUPANCY SENSOR. PULL EXISTING, UNUSED CIRCUITRY BACK TO THE ROOM'S EXISTING HOME RUN LIGHTING CIRCUIT.
2	EXISTING DUPLEX RECEPTACLE TO REMAIN AND STAY CONNECTED.
3	EXISTING HAND DRYERS TO BE REMOVED. DISCONNECT THE EXISTING POWER CONNECTIONS AND SAFE OFF. EXISTING CIRCUITRY TO BE REMAIN FOR CONNECTION TO THE NEW HAND DRYERS.
4	EXISTING FIRE ALARM NOTIFICATION AND INITIATING DEVICE TO REMAIN AND STAY CONNECTED.
5	EXISTING LIGHT SWITCH TO BE REMOVED. MODIFY THE EXISTING LIGHT SWITCH OPENING AT THE WALL AS REQUIRED TO INSTALL THE NEW KEYED LIGHT SWITCH PER ADA HEIGHT REQUIREMENTS. MODIFY AND EXTEND EXISTING CONDUIT WITH NEW AS REQUIRED TO RECONNECT. PROVIDE NEW CIRCUITRY AS REQUIRED TO RECONNECT.
6	CONTRACTOR TO VERIFY AND LOCATE THE ROOM'S EXISTING HOMERUN LIGHTING CIRCUIT J-BOX. EXISTING HOME RUN LIGHTING CIRCUIT TO REMAIN FOR CONNECTION TO THE NEW LIGHT FIXTURES.
7	REMOVE THE EXISTING MULTI-STATION SINK 120V POWER CONNECTION. PULL BACK TO SOURCE AND REMOVE.

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PROJECT

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E16890
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STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

REVISIONS

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SHEET

BLDG 300 & 400 RR ELECTRICAL PLANS - DEMO

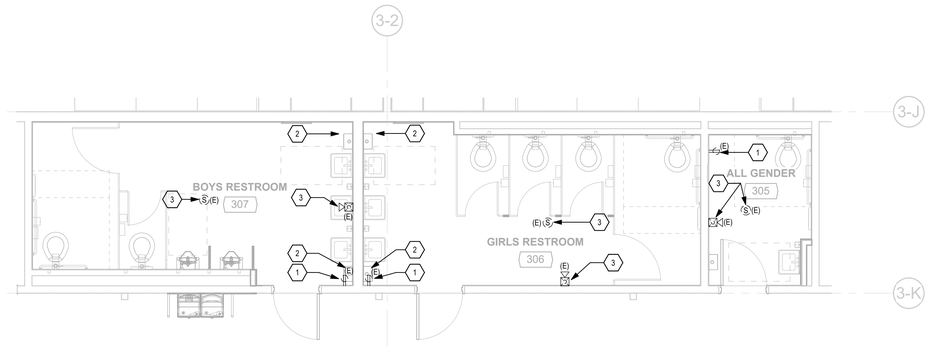
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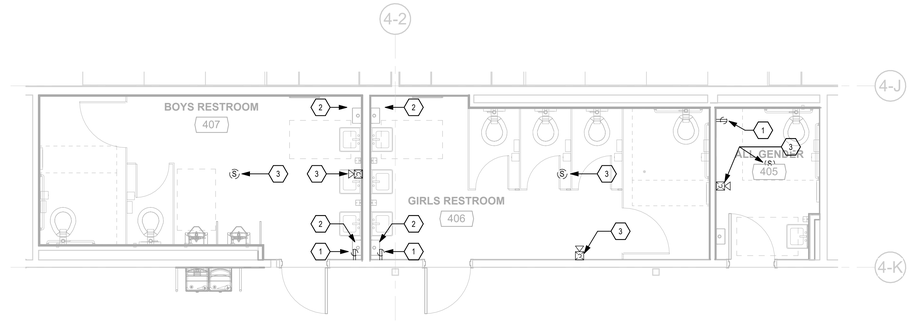
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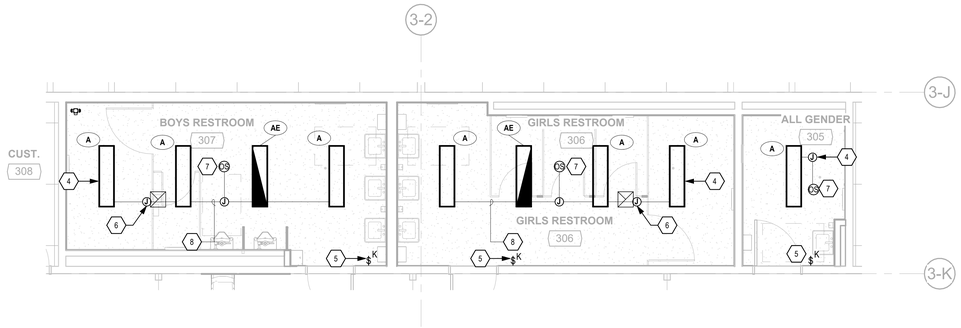
1 E2.1 BLDG 300 RESTROOM ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"



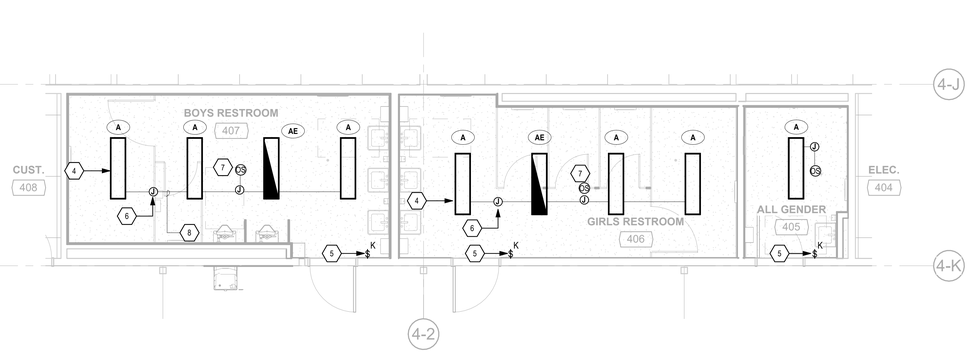
2 E2.1 BLDG 400 RESTROOM ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"



3 E2.1 NEW ENLARGED RESTROOM LIGHTING PLAN - BLDG 300

SCALE: 1/4" = 1'-0"



4 E2.1 NEW ENLARGED RESTROOM LIGHTING PLAN - BLDG 400

SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL LIGHTING CIRCUITRY SHALL BE PROVIDED WITH NEW CONDUIT AND CONDUCTORS, UNLESS OTHERWISE NOTED.
2. ALL LOW VOLTAGE CONTROL CABLES SHALL BE INSTALLED IN MINIMUM 3/4" CONDUIT IN EXPOSED LOCATIONS.
3. CONTROLS AND SWITCHES SHALL NOT BE MORE THAN 48" A.F.F. TO THE TOP OF THE BOX.
4. FOR INTERIOR EMERGENCY LIGHT FIXTURES, PROVIDE UN-SWITCHED HOT FOR CIRCUIT MONITORING.
5. SEE THE PANELS SCHEDULES FOR ADDITIONAL REQUIREMENTS
6. REFER TO THE ELECTRICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
7. ALL CONTROLS AND SWITCHES SHALL BE COMPATIBLE WITH THE WATTSTOPPER DIGITAL LIGHTING MANAGEMENT PLATFORM, UNLESS OTHERWISE NOTED.
8. SEE THE ELECTRICAL DEMO FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
9. SEE THE ARCHITECTURAL SHEETS FOR ADDITIONAL REQUIREMENTS.

SHEET NOTES

#	NOTE
1	EXISTING DUPLEX RECEPTACLE TO REMAIN AND STAY CONNECTED.
2	CONNECT THE NEW HAND DRYER TO THE EXISTING CIRCUITRY PREVIOUSLY SERVING THE EXISTING HAND DRYER. PROVIDE NEW CONDUIT AND CIRCUITRY REQUIRED TO EXTEND TO NEW HAND DRYER.
3	EXISTING FIRE ALARM NOTIFICATION AND INITIATING DEVICE TO REMAIN AND STAY CONNECTED.
4	NEW SURFACE MOUNTED LIGHT FIXTURE
5	PROVIDE NEW KEYED SWITCH FOR RESTROOM LIGHTING CONTROL. MODIFY OPENING AT WALL TO INSTALL NEW FLUSH MOUNTED J-BOX. INSTALL NEW FLUSH MOUNTED KEYED SWITCH AT ADA HEIGHT. PROVIDE NEW CONDUIT AND CIRCUITRY AT WALL OPENING AS REQUIRED TO EXTEND AND CONNECT.
6	EXISTING HOMERUN LIGHTING CIRCUIT J-BOX LOCATION. CONTRACTOR TO CONFIRM EXACT LOCATION. PROVIDE NEW CIRCUITRY AND EXTEND EXISTING HOMERUN CIRCUIT TO THE NEW LIGHTING, OCCUPANCY SENSOR AND KEYED LIGHT SWITCH.
7	PROVIDE NEW LINE VOLTAGE OCCUPANCY SENSOR.
8	ROUTE NEW CONDUIT CONCEALED IN THE ABOVE CEILING. PATCH AND REPAIR CEILING WHERE NEW WORK OCCURS.

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PROJECT

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REGISTERED PROFESSIONAL ENGINEER JIMMY S. FERNANDEZ E16890 Exp. 06/30/2019 ELECTRICAL STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	43-41
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REVISIONS

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MILESTONES

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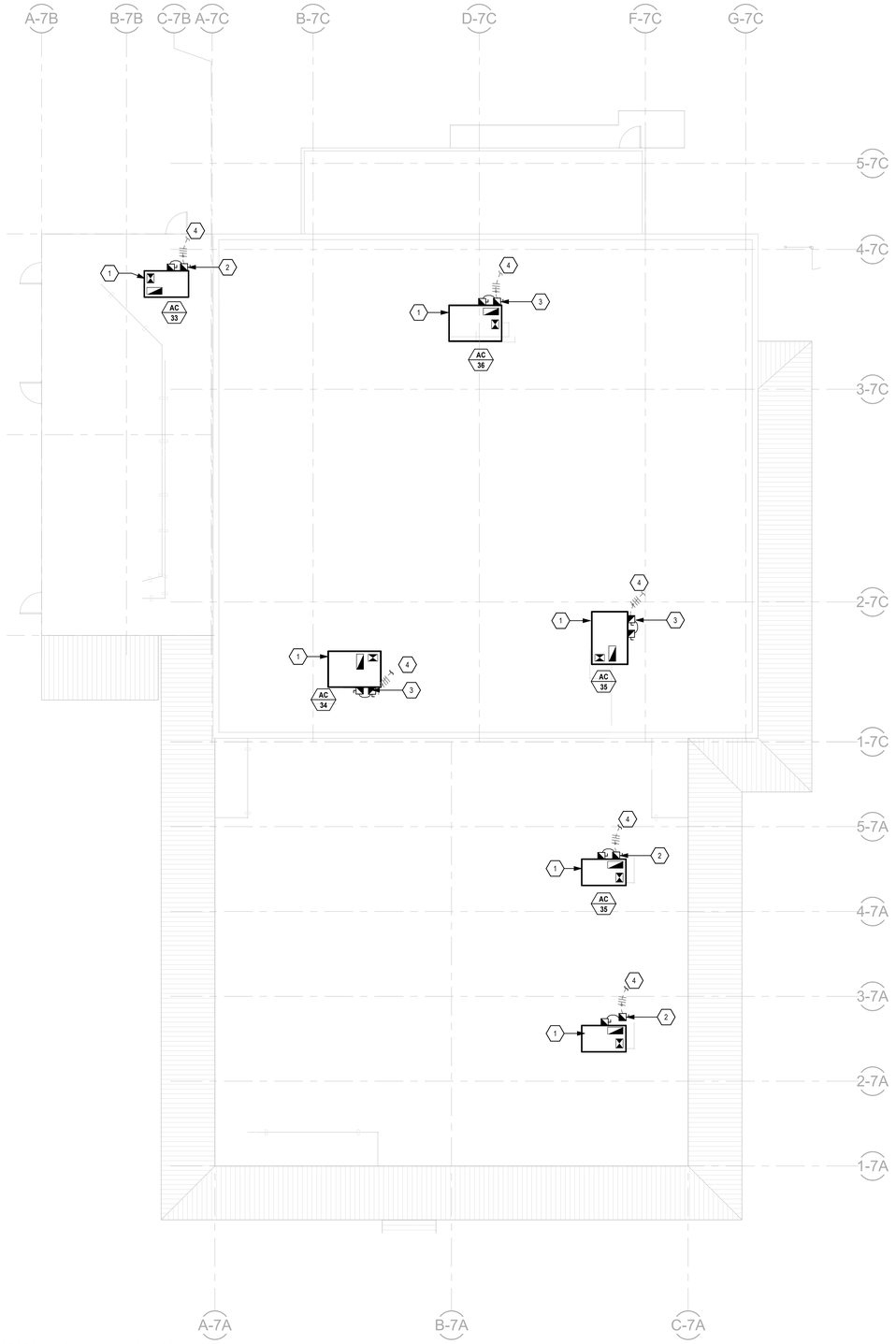
BLDG 300 & 400 RR PLANS - NEW

DATE 12.29.2025

JOB # 2025014

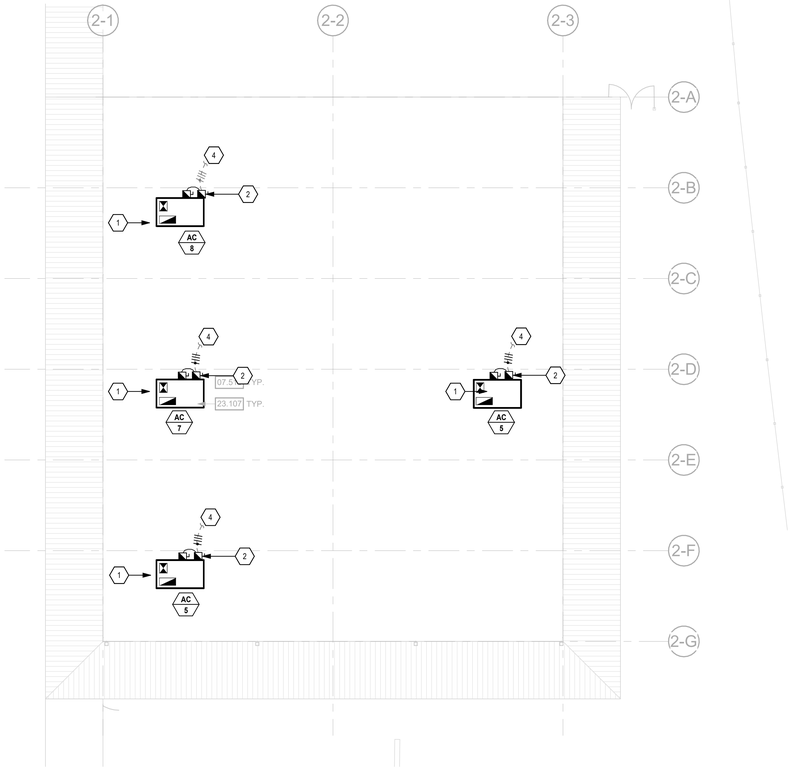
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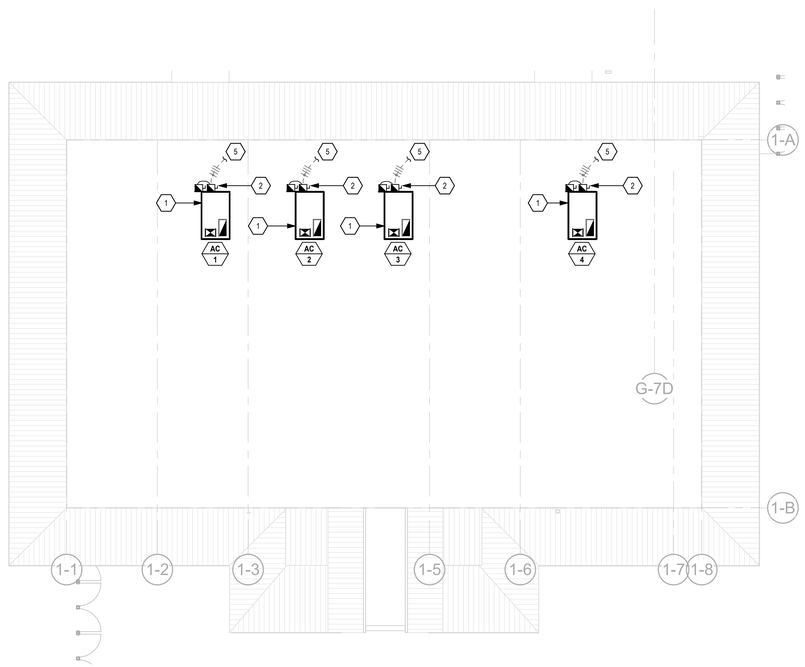
1 E3.1 **ROOF PLAN - BLDG 700**

SCALE: 1/8" = 1'-0"



2 E3.1 **ROOF PLAN - BLDG 200**

SCALE: 1/8" = 1'-0"



3 E3.1 **ROOF PLAN - BLDG 100**

SCALE: 1/8" = 1'-0"

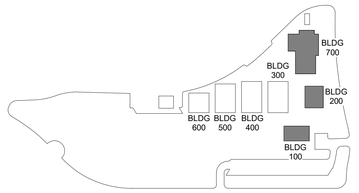
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND POINTS OF CONNECTION FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR. ADJUST LOCATION AND CONNECTION POINTS AS NEEDED.
2. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS
3. FUSED AND UNFUSED DISCONNECT SWITCHES SHALL BE 600V RATED, HEAVY DUTY CYCLE. FUSES FOR MECHANICAL UNITS SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATION.

SHEET NOTES

#	NOTE
1	EXISTING MECHANICAL UNIT TO BE DEMOLISHED. REMOVE EXISTING DISCONNECT SWITCH ASSOCIATED WITH THE DEMOLISHED UNIT. EXISTING FEEDER CIRCUITRY SERVING THE UNIT IS TO REMAIN OF REUSE.
2	NEW 30A-3P, NEMA-3R , FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
3	NEW 60A-3P, NEMA-3R , FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
4	EXTEND AND CONNECT THE EXISTING CIRCUITRY AND EXISTING CONDUIT TO THE NEW UNIT. MINIMUM FEEDER CABLE SIZE SHALL BE #10 AWG. CONFIRM THE SIZE OF THE EXISTING CABLES. WHERE THE EXISTING CABLES DO NOT MEET THE MINIMUM FEEDER CABLE SIZE REQUIRED, NEW FEEDER CABLES SHALL BE PROVIDED.
5	EXTEND AND CONNECT THE EXISTING CIRCUITRY AND EXISTING CONDUIT TO THE NEW UNIT. MINIMUM FEEDER CABLE SIZE SHALL BE #12 AWG. CONFIRM THE SIZE OF THE EXISTING CABLES. WHERE THE EXISTING CABLES DO NOT MEET THE MINIMUM FEEDER CABLE SIZE REQUIRED, NEW FEEDER CABLES SHALL BE PROVIDED.

KEYPLAN



N

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PROJECT

LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

American Consulting Engineers Electrical, Inc.
100 Saratoga Ave. Suite 200
Santa Clara, CA 95051
Ph: 408/236-2312
Fax: 408/236-2316

JOB #EK25063.00

STAMP

REGISTERED PROFESSIONAL ENGINEER
JIMMY S. FERNANDEZ
E16890
Exp. 06/30/2026
ELECTRICAL
STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

ROOF PLAN - BLDG 100, 200 & 700

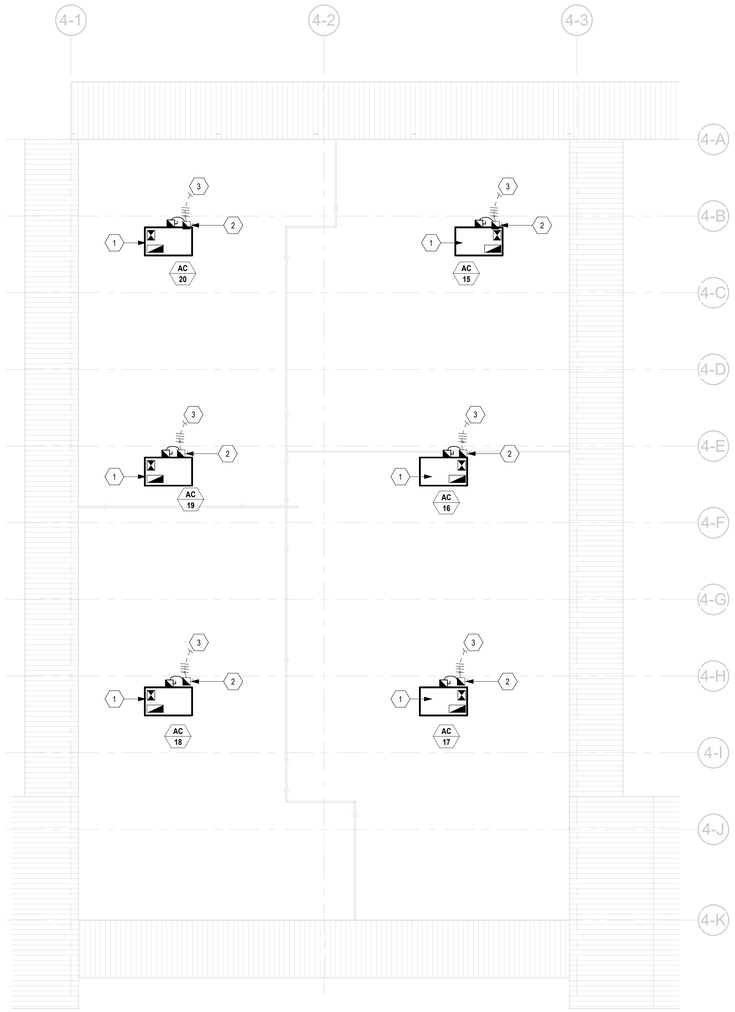
DATE 12.29.2025

JOB # 2025014

SHEET #

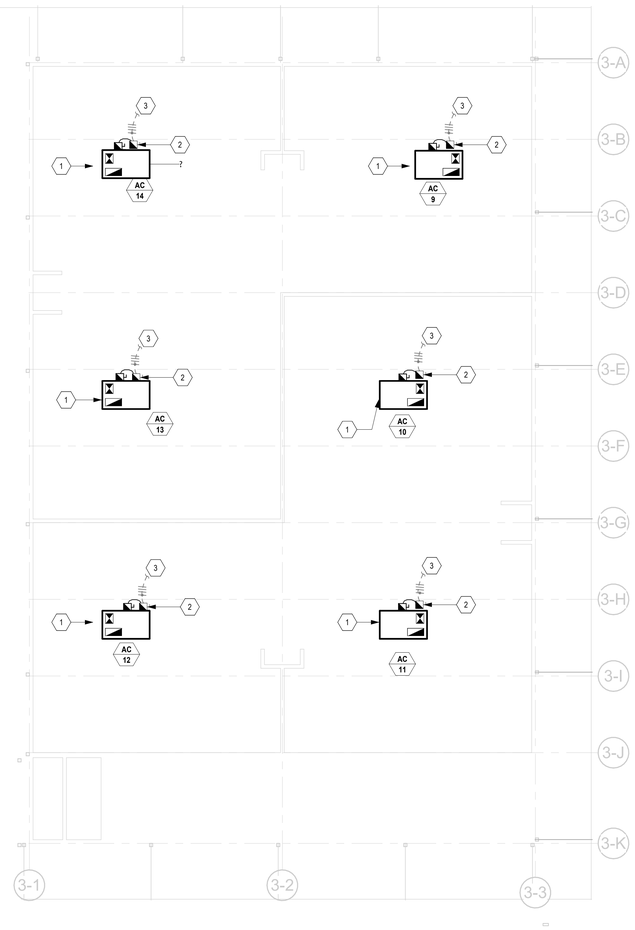
E3.1

12/24/2025 11:42:56 AM



1 E3.2 ROOF PLAN - BLDG 400

SCALE: 1/8" = 1'-0"



2 E3.2 ROOF PLAN - BLDG 300

SCALE: 1/8" = 1'-0"

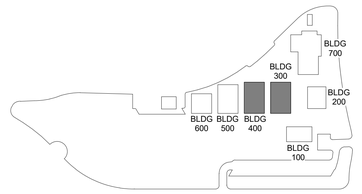
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SHEET NOTES

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1		

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SHEET

ROOF PLAN - BLDG 400 & 300

DATE 12.29.2025

JOB # 2025014

SHEET # E3.2

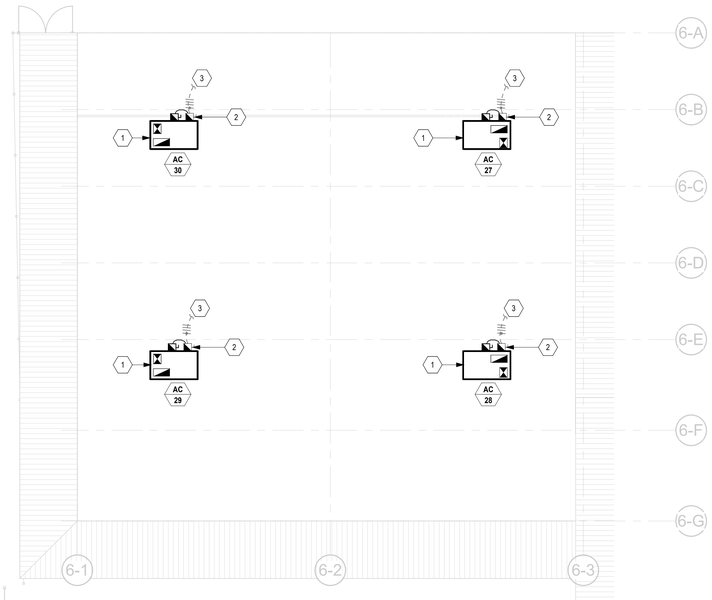
12/24/2025 11:42:57 AM

GENERAL NOTES

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2. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS
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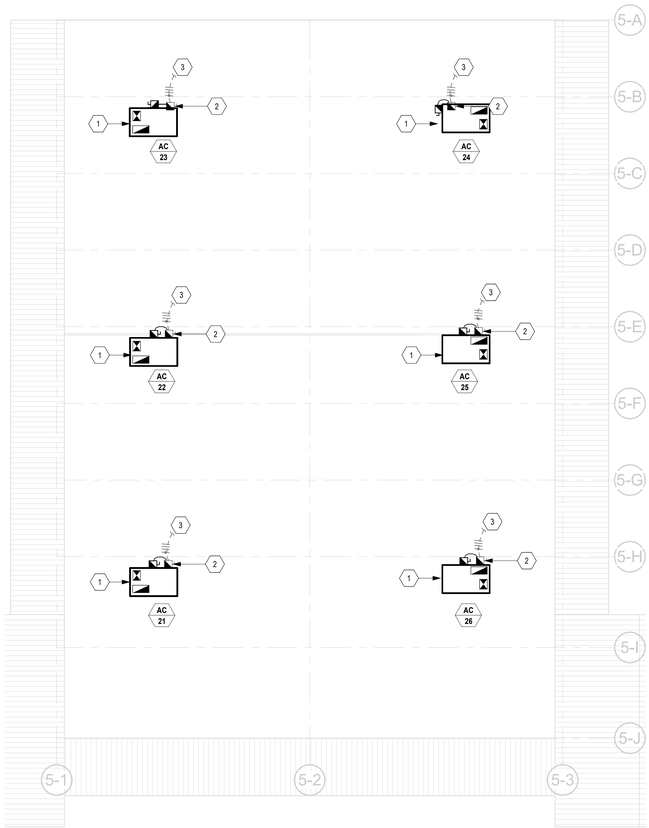
SHEET NOTES

#	NOTE
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1 E3.3 **ROOF PLAN - BLDG 600**

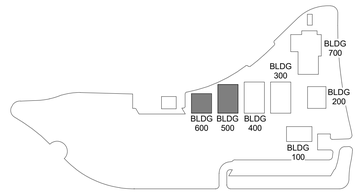
SCALE: 1/8" = 1'-0"



2 E3.3 **ROOF PLAN - BLDG 500**

SCALE: 1/8" = 1'-0"

KEYPLAN



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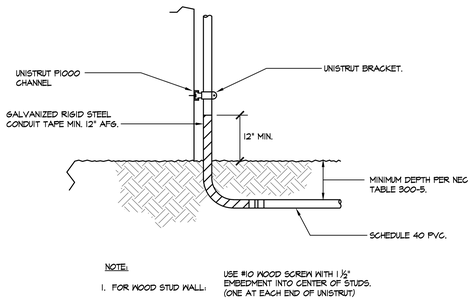
ROOF PLAN - BLDG 500 & 600

DATE 12.29.2025

JOB # 2025014

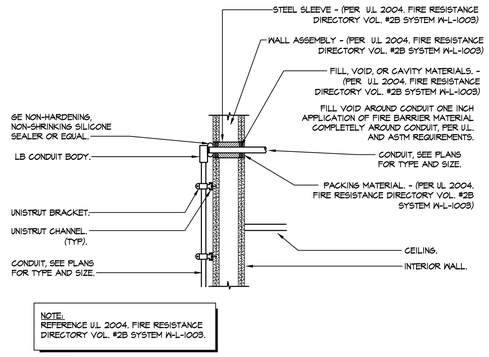
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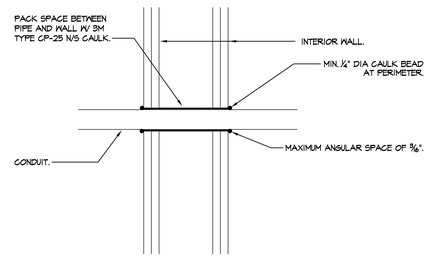
1 UNDERGROUND CONDUIT RISER DETAIL

E4.1 NOT TO SCALE



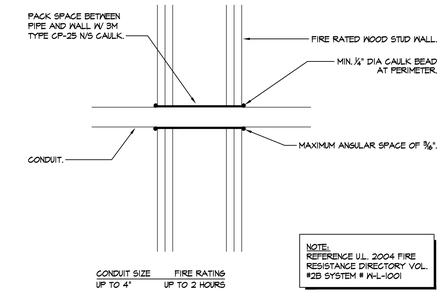
2 CONDUIT RISER AND WALL PENETRATION - POWER

E4.1 NOT TO SCALE



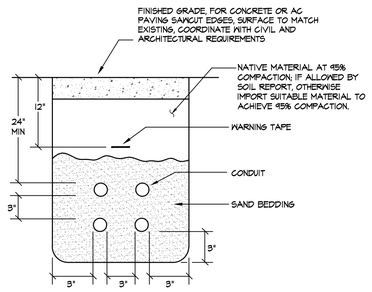
3 CONDUIT THROUGH WALL DETAIL

E4.1 NOT TO SCALE



4 CONDUIT THROUGH ONE HOUR RATED FIRE WALL

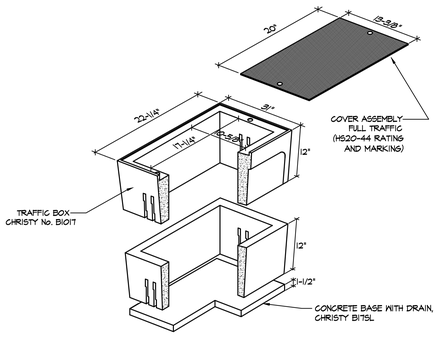
E4.1 NOT TO SCALE



1. COORDINATE TRENCH CONDUIT LAYOUT WITH OTHER CONDUIT SYSTEMS.

5 TYPICAL TRENCH DETAIL

E4.1 NOT TO SCALE

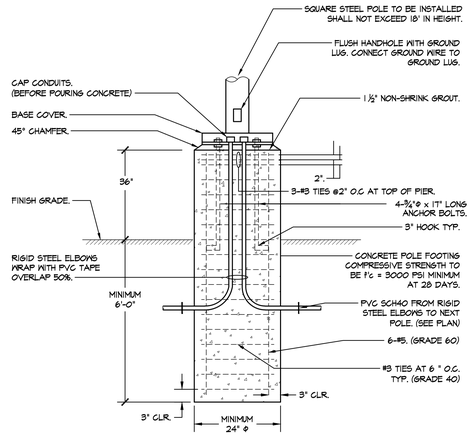


NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.
6. PROVIDE BASE WITH DRAIN. PROVIDE DRAIN ROCK.

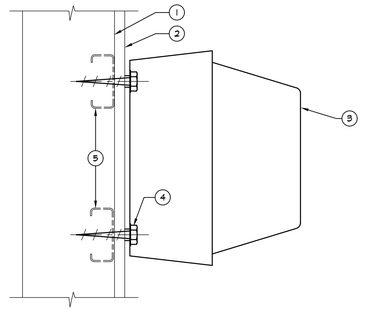
6 B1017 ELECTRICAL VAULT

E4.1 NOT TO SCALE (FULL TRAFFIC COVER)



7 TYPICAL RAISED POLE BASE DETAIL

E4.1 NOT TO SCALE (NOT PART OF DSA STRUCTURAL REVIEW PER IR A-22) (POLE LESS THAN 35')



1. METAL BUILDING STUDS.
2. FOR BUILDING WALL CONSTRUCTION SEE ARCHITECTURAL DRAWINGS.
3. SURFACE MOUNTED FIXTURE.
4. (4) #10 x 2" LONG METAL SCREWS WITH FLAT WASHER, (4) PER FIXTURE.
5. METAL STUD BLOCKING PROVIDE #10 METAL SCREWS TO FASTEN BLOCKING TO METAL BUILDING STUDS, (4) AT EACH END. (TYP.)

8 SURFACE MOUNT WALL OR CEILING LIGHT FIXTURE

E4.1 NOT TO SCALE

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PROJECT

LEDESMA ELEMENTARY SCHOOL MODERNIZATION

OAK GROVE SCHOOL DISTRICT

CONSULTANT

American Consulting Engineers Electrical, Inc.
1990 The Alameda, Suite 200 San Jose, CA 95126 JOB # E251103.00
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DSA FILE NUMBER 43-41

APPL # 01-122831

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MILESTONES

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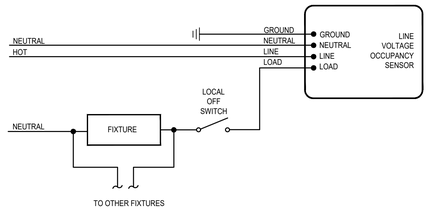
SHEET

ELECTRICAL DETAILS

DATE 12.29.2025

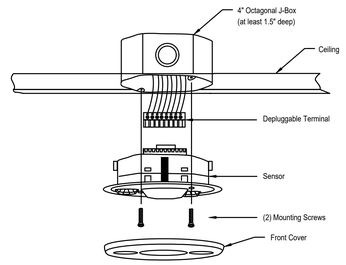
JOB # 2025014

SHEET # E4.1



1 E4.2 **LINE VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM**

NOT TO SCALE



2 E4.2 **LINE VOLTAGE OCCUPANCY SENSOR INSTALLATIOIN DETAL**

NOT TO SCALE

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SHEET

ELECTRICAL DETAILS

DATE 12.29.2025

JOB # 2025014

SHEET # E4.2

PANEL NAME: (E) 1H
VOLTAGE: 480/277V
PHASE: 3
WIRE: 4
TYPE: NEMA 1
MOUNTING: SURFACE

FED FROM: MSB
MAIN C/B: 200A-3P
BUSSING: 225 AMP
MIN. AIC: 14,000
SUB-FEED C/B:
FEED THRU LUGS:

CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CB AMP/P	CKT #	PH	CKT #	CB AMP/P	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CIRCUIT DESCRIPTION
(N) MECH UNIT AC-3			4.33		20A	1	A	2	20A/1P	3.28				(E) LIGHTING
" "			4.33			3	B	4	20A/1P	2.64				(E) LIGHTING
" "			4.33		3P	5	C	6	BLANK					SPACE
(N) MECH UNIT AC-4			4.33		(N) 20A	7	A	8	(N) 15A			3.60		(N) MECH UNIT AC-1
" "			4.33			9	B	10				3.60		" "
" "			4.33		3P	11	C	12	3P			3.60		" "
(E) TX-1 TRANSFORMER				9.46	90A	13	A	14	20A			4.33		(N) MECH UNIT AC-2
				9.46		15	B	16				4.33		" "
				9.46	3P	17	C	18	3P			4.33		" "
SPACE					BLANK	19	A	20	BLANK					SPACE
SPACE					BLANK	21	B	22	BLANK					SPACE
SPACE					BLANK	23	C	24	BLANK					SPACE
SPACE					BLANK	25	A	26	BLANK					SPACE
SPACE					BLANK	27	B	28	BLANK					SPACE
SPACE					BLANK	29	C	30	BLANK					SPACE
SPACE					BLANK	31	A	32	BLANK					SPACE
SPACE					BLANK	33	B	34	BLANK					SPACE
SPACE					BLANK	35	C	36	20A/1P	1.50				(E) EXTERIOR LIGHTS
						37	A	38						
						39	B	40						
						41	C	42						
	0	0	25.98	28.38						7.42	0	23.79	0	

LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
(LTG) LIGHTING X 125%	7.4	1.25	9.3
(REC) RECEPTS PER 220.44;	0	1.00	0.0
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0
(MTR) LARGEST MOTOR X 125% +	13.0	1.25	16.2
REMAINING MOTORS x 100%	36.8	1.00	36.8
(NCL) NON CONTINOUS LOAD x 100%	28.4	1.00	28.4

	Yes/No
FULL RATED AIC	Y
SERIES RATED AIC	N
SURGE PROTECTIVE DEVICE	N
COPPER BUSSING	Y
ALUMINUM BUSSING	N

KVA PHASE A (CONNECTED)	29.3
KVA PHASE B (CONNECTED)	28.7
KVA PHASE C (CONNECTED)	27.6
TOTAL DEMAND KVA	90.7
TOTAL LOAD AMPERES	109.2

PANEL NAME: (E) 2H
VOLTAGE: 480/277V
PHASE: 3
WIRE: 4
TYPE: NEMA 1
MOUNTING: SURFACE

FED FROM: MSB
MAIN C/B: 100A-3P
BUSSING: 125 AMP
MIN. AIC: 14,000
SUB-FEED C/B:
FEED THRU LUGS:

CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CB AMP/P	CKT #	PH	CKT #	CB AMP/P	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CIRCUIT DESCRIPTION
(E) TX-2 TRANSFORMER				2.44	60A	1	A	2	20A/1P	1.84				(E) LIGHTING
" "				2.44		3	B	4	20A/1P	3.60				(E) LIGHTING
" "				2.44	3P	5	C	6	20A/1P	1.00				(E) EXTERIOR LIGHTING
(N) MECH UNIT AC-5			4.39		20A	7	A	8	20A			4.39		(N) MECH UNIT AC-7
" "			4.39			9	B	10				4.39		" "
" "			4.39		3P	11	C	12	3P			4.39		" "
(N) MECH UNIT AC-6			4.39		20A	13	A	14	20A			4.39		(N) MECH UNIT AC-8
" "			4.39			15	B	16				4.39		" "
" "			4.39		3P	17	C	18	3P			4.39		" "
SPACE					BLANK	19	A	20	BLANK					SPACE
SPACE					BLANK	21	B	22	BLANK					SPACE
SPACE					BLANK	23	C	24	BLANK					SPACE
SPACE					BLANK	25	A	26	BLANK					SPACE
SPACE					BLANK	27	B	28	BLANK					SPACE
SPACE					BLANK	29	C	30	BLANK					SPACE
SPACE					BLANK	31	A	32	BLANK					SPACE
SPACE					BLANK	33	B	34	BLANK					SPACE
SPACE					BLANK	35	C	36	20A/1P	0.40				(E) EXTERIOR LIGHTS / EM
						37	A	38						
						39	B	40						
						41	C	42						
	0	0	26.34	7.31						6.84	0	26.34	0	

LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
(LTG) LIGHTING X 125%	6.8	1.25	8.6
(REC) RECEPTS PER 220.44;	0	1.00	0.0
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0
(MTR) LARGEST MOTOR X 125% +	13.2	1.25	16.5
REMAINING MOTORS x 100%	39.5	1.00	39.5
(NCL) NON CONTINOUS LOAD x 100%	7.3	1.00	7.3

	Yes/No
FULL RATED AIC	Y
SERIES RATED AIC	N
SURGE PROTECTIVE DEVICE	N
COPPER BUSSING	Y
ALUMINUM BUSSING	N

KVA PHASE A (CONNECTED)	21.8
KVA PHASE B (CONNECTED)	23.6
KVA PHASE C (CONNECTED)	21.4
TOTAL DEMAND KVA	71.8
TOTAL LOAD AMPERES	86.5

PANEL NAME: (E) 3H
VOLTAGE: 480/277V
PHASE: 3
WIRE: 4
TYPE: NEMA 1
MOUNTING: SURFACE

FED FROM: MSB
MAIN C/B: 200A-3P
BUSSING: 225 AMP
MIN. AIC: 14,000
SUB-FEED C/B:
FEED THRU LUGS:

CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CB AMP/P	CKT #	PH	CKT #	CB AMP/P	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CIRCUIT DESCRIPTION
(E) TX-3 TRANSFORMER				9.36	90A	1	A	2	20A/1P	2.88				(E) LIGHTING
" "				9.36		3	B	4	20A/1P	2.88				(E) LIGHTING
" "				9.36	3P	5	C	6	20A/1P	2.88				(E) LIGHTING
(N) MECH UNIT AC-9			4.15		(N) 20A	7	A	8	20A/1P	1.36				(E) LIGHTING
" "			4.15			9	B	10	BLANK					SPACE
" "			4.15		3P	11	C	12	BLANK					SPACE
(N) MECH UNIT AC-10			4.15		(N) 20A	13	A	14	(N) 20A				4.15	(N) MECH UNIT AC-12
" "			4.15			15	B	16					4.15	" "
" "			4.15		3P	17	C	18	3P				4.15	" "
(N) MECH UNIT AC-11			4.15		(N) 20A	19	A	20	(N) 20A				4.15	(N) MECH UNIT AC-13
" "			4.15			21	B	22					4.15	" "
" "			4.15		3P	23	C	24	3P				4.15	" "
SPACE					BLANK	25	A	26	(N) 20A				4.15	(N) MECH UNIT AC-14
SPACE					BLANK	27	B	28					4.15	" "
SPACE					BLANK	29	C	30	3P				4.15	" "
SPACE					BLANK	31	A	32	20A/1P	0.80				(E) EXTERIOR LIGHTING
SPACE					BLANK	33	B	34	BLANK					SPACE
SPACE					BLANK	35	C	36	20A/1P	0.40				(E) EXTERIOR LIGHTS / EM
						37	A	38						
						39	B	40						
						41	C	42						
	0	0	37.35	28.08						11.20	0	37.35	0	

LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
(LTG) LIGHTING X 125%	11.2	1.25	14.0
(REC) RECEPTS PER 220.44;	0	1.00	0.0
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0
(MTR) LARGEST MOTOR X 125% +	12.5	1.25	15.6
REMAINING MOTORS x 100%	62.3	1.00	62.3
(NCL) NON CONTINOUS LOAD x 100%	28.1	1.00	28.1

	Yes/No
FULL RATED AIC	Y
SERIES RATED AIC	N
SURGE PROTECTIVE DEVICE	N
COPPER BUSSING	Y
ALUMINUM BUSSING	N

KVA PHASE A (CONNECTED)	39.3
KVA PHASE B (CONNECTED)	37.1
KVA PHASE C (CONNECTED)	37.5
TOTAL DEMAND KVA	119.9
TOTAL LOAD AMPERES	144.4

PANEL NAME: (E) 4H
VOLTAGE: 480/277V
PHASE: 3
WIRE: 4
TYPE: NEMA 1
MOUNTING: SURFACE

FED FROM: MSB
MAIN C/B: 200A-3P
BUSSING: 225 AMP
MIN. AIC: 14,000
SUB-FEED C/B:
FEED THRU LUGS:

CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CB AMP/P	CKT #	PH	CKT #	CB AMP/P	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CIRCUIT DESCRIPTION
(E) TX-4 TRANSFORMER				9.36	100A	1	A	2	20A/1P	2.88				(E) LIGHTING
" "				9.36		3	B	4	20A/1P	2.88				(E) LIGHTING
" "				9.36	3P	5	C	6	20A/1P	2.88				(E) LIGHTING
(N) MECH UNIT AC-15			4.15		(N) 20A	7	A	8	20A/1P	1.36				(E) LIGHTING
" "			4.15			9	B	10	20A/1P	1.00				(E) EXIT LIGHT / EM
" "			4.15		3P	11	C	12	20A/1P	1.00				(E) EXTERIOR LIGHTING
(N) MECH UNIT AC-16			4.15		(N) 20A	13	A	14	(N) 20A			4.15		(N) MECH UNIT AC-18
" "			4.15			15	B	16				4.15		" "
" "			4.15		3P	17	C	18	3P			4.15		" "
(N) MECH UNIT AC-17			4.15		(N) 20A	19	A	20	(N) 20A			4.15		(N) MECH UNIT AC-19
" "			4.15			21	B	22				4.15		" "
" "			4.15		3P	23	C	24	3P			4.15		" "
SPACE					BLANK	25	A	26	(N) 20A			4.15		(N) MECH UNIT AC-20
SPACE					BLANK	27	B	28				4.15		" "
SPACE					BLANK	29	C	30	3P			4.15		" "
SPACE					BLANK	31	A	32	BLANK					SPACE
SPACE					BLANK	33	B	34	BLANK					SPACE
SPACE					BLANK	35	C	36	BLANK					SPACE
						37	A	38						
						39	B	40						
						41	C	42						
	0	0	37.35	28.08						12.00	0	37.35	0	

LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
(LTG) LIGHTING X 125%	12.0	1.25	15.0
(REC) RECEPTS PER 220.44;	0	1.00	0.0
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0
(MTR) LARGEST MOTOR X 125% +	12.5	1.25	15.6
REMAINING MOTORS x 100%	62.3	1.00	62.3
(NCL) NON CONTINOUS LOAD x 100%	28.1	1.00	28.1

	Yes/No
FULL RATED AIC	Y
SERIES RATED AIC	N
SURGE PROTECTIVE DEVICE	N
COPPER BUSSING	Y
ALUMINUM BUSSING	N

KVA PHASE A (CONNECTED)	38.5
KVA PHASE B (CONNECTED)	38.1
KVA PHASE C (CONNECTED)	38.1
TOTAL DEMAND KVA	120.9
TOTAL LOAD AMPERES	145.6

PANEL NAME: (E) 5H
VOLTAGE: 480/277V
PHASE: 3
WIRE: 4
TYPE: NEMA 1
MOUNTING: SURFACE

FED FROM: MSB
MAIN C/B: 200A-3P
BUSSING: 225 AMP
MIN. AIC: 10,000
SUB-FEED C/B:
FEED THRU LUGS:

CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CB AMP/P	CKT #	PH	CKT #	CB AMP/P	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CIRCUIT DESCRIPTION
(E) TX-5 TRANSFORMER				5.90	60A	1	A	2	20A/1P	2.88				(E) LIGHTING
" "				5.90		3	B	4	20A/1P	2.88				(E) LIGHTING
" "				5.90	3P	5	C	6	20A/1P	2.88				(E) LIGHTING
(N) MECH UNIT AC-21			4.15		20A	7	A	8	20A/1P	1.36				(E) LIGHTING
" "			4.15			9	B	10	20A/1P	1.00				(E) EM LIGHT
" "			4.15		3P	11	C	12	BLANK					SPACE
(N) MECH UNIT AC-22			4.15		20A	13	A	14	20A			4.15		(N) MECH UNIT AC-24
" "			4.15			15	B	16				4.15		" "
" "			4.15		3P	17	C	18	3P			4.15		" "
(N) MECH UNIT AC-23			4.15		20A	19	A	20	20A			4.15		(N) MECH UNIT AC-25
" "			4.15			21	B	22				4.15		" "
" "			4.15		3P	23	C	24	3P			4.15		" "
SPACE					BLANK	25	A	26	20A			4.15		(N) MECH UNIT AC-26
SPACE					BLANK	27	B	28				4.15		" "
SPACE					BLANK	29	C	30	3P			4.15		" "
SPACE					BLANK	31	A	32	BLANK					SPACE
SPACE					BLANK	33	B	34	BLANK					SPACE
SPACE					BLANK	35	C	36	BLANK					SPACE
						37	A	38						
						39	B	40						
						41	C	42						
	0	0	37.35	17.70						11.00	0	37.35	0	

LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
(LTG) LIGHTING X 125%	11.0	1.25	13.8
(REC) RECEPTS PER 220.44;	0	1.00	0.0
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0
(MTR) LARGEST MOTOR X 125% +	12.5	1.25	15.6
REMAINING MOTORS x 100%	62.3	1.00	62.3
(NCL) NON CONTINOUS LOAD x 100%	17.7	1.00	17.7

	Yes/No
FULL RATED AIC	Y
SERIES RATED AIC	N
SURGE PROTECTIVE DEVICE	N
COPPER BUSSING	Y
ALUMINUM BUSSING	N

KVA PHASE A (CONNECTED)	35.0
KVA PHASE B (CONNECTED)	34.7
KVA PHASE C (CONNECTED)	33.7
TOTAL DEMAND KVA	109.3
TOTAL LOAD AMPERES	131.6

PANEL NAME: (E) 7AC
VOLTAGE: 480/277V
PHASE: 3
WIRE: 4
TYPE: NEMA 1
MOUNTING: SURFACE

FED FROM: MSB
MAIN C/B: 225A-3P
BUSSING: 225 AMP
MIN. AIC: 14,000
SUB-FEED C/B:
FEED THRU LUGS:

CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CB AMP/P	CKT #	PH	CKT #	CB AMP/P	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CIRCUIT DESCRIPTION
(N) MECH UNIT AC-31			5.30		(N) 25A	1	A	2	(N) 25A			5.30		(N) MECH UNIT AC-32
" "			5.30			3	B	4				5.30		" "
" "			5.30		3P	5	C	6	3P			5.30		" "
(N) MECH UNIT AC-33			5.30		(N) 25A	7	A	8	40A			9.55		(N) MECH UNIT AC-34
" "			5.30			9	B	10				9.55		" "
" "			5.30		3P	11	C	12	3P			9.55		" "
(N) MECH UNIT AC-35			9.55		(N) 40A	13	A	14	(N) 20A				4.15	(N) MECH UNIT AC-36
" "			9.55			15	B	16					4.15	" "
" "			9.55		3P	17	C	18	3P				4.15	" "
SPACE					BLANK	19	A	20	BLANK					SPACE
SPACE					BLANK	21	B	22	BLANK					SPACE
SPACE					BLANK	23	C	24	BLANK					SPACE
SPACE					BLANK	25	A	26	BLANK					SPACE
SPACE					BLANK	27	B	28	BLANK					SPACE
SPACE					BLANK	29	C	30	BLANK					SPACE
SPACE					BLANK	31	A	32	BLANK					SPACE
SPACE					BLANK	33	B	34	BLANK					SPACE
SPACE					BLANK	35	C	36	BLANK					SPACE
						37	A	38						
						39	B	40						
						41	C	42						
	0	0	60.45	0						0	0	57.00	0	

LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
(LTG) LIGHTING X 125%	0	1.25	0.0
(REC) RECEPTS PER 220.44;	0	1.00	0.0
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0
(MTR) LARGEST MOTOR X 125% +	28.7	1.25	35.8
REMAINING MOTORS x 100%	88.8	1.00	88.8
(NCL) NON CONTINOUS LOAD x 100%	0	1.00	0.0

	Yes/No
FULL RATED AIC	Y
SERIES RATED AIC	N
SURGE PROTECTIVE DEVICE	N
COPPER BUSSING	Y
ALUMINUM BUSSING	N

KVA PHASE A (CONNECTED)	39.2
KVA PHASE B (CONNECTED)	39.2
KVA PHASE C (CONNECTED)	39.2
TOTAL DEMAND KVA	124.6
TOTAL LOAD AMPERES	150.1

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PROJECT

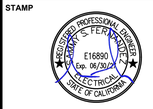
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STATE

DSA FILE NUMBER 43-41

APPL # 01-122831

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	05.23.2025
DD	11.14.2025
90% CD	12.17.2025
DSA SUB	12.29.2025

SHEET

PANEL SCHEDULES

DATE 12.29.2025

JOB # 2025014

SHEET # E5.1